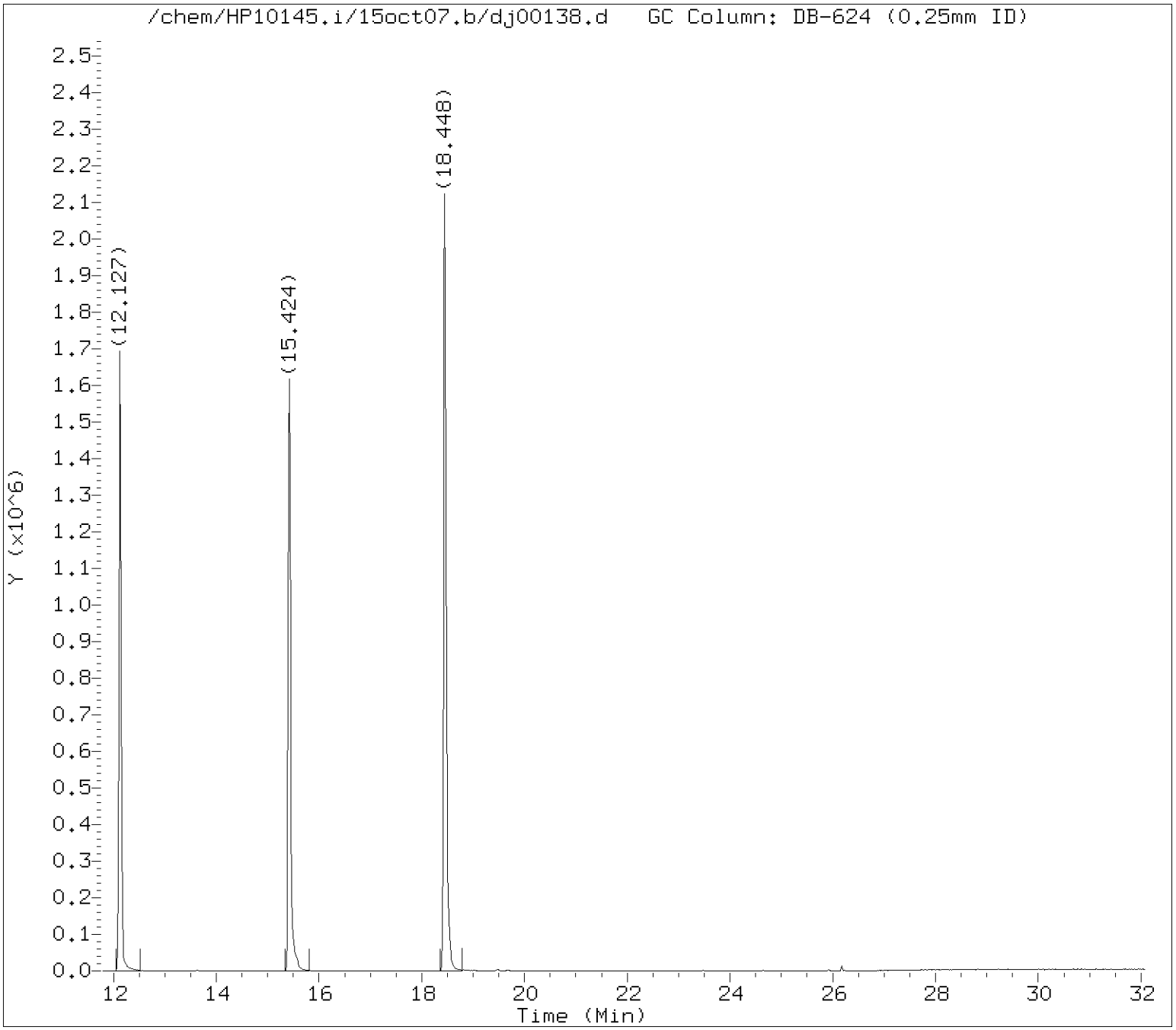


Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:06 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90 Lab Sample ID: VBLKD90

Internal Standard referenced: Chlorobenzene-d5 at 15.424 minutes
Chromatogram Start Time (min.): 12.293
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:43.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP10145.i/15oct07.b/dj00138.d
Lab Smp Id: VBLKD90 Client Smp ID: VBLKD90
Inj Date : 07-OCT-2015 20:06
Operator : jeb07445 Inst ID: HP10145.i
Smp Info : VBLKD90;250;D1528030AA;VBLKD90;0;3;BLANK;
Misc Info : ;;250;;;;
Comment :
Method : /chem/HP10145.i/15oct07.b/to-15.m
Meth Date : 16-Oct-2015 08:42 jbs01304 Quant Type: ISTD
Cal Date : 01-OCT-2015 17:08 Cal File: dj00008.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: d30cs01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:43.
Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct05.b/dj00074.d Injection date and time: **05-OCT-2015 15:16**
Data file Sample Info. Line: LCSD88;250;D1527830AA;LCSD88;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.289(0.000)	524	130	664535 (2)	10.00		392766 - 916452
51) 1,4-Difluorobenzene	9.210(0.012)	686	114	2618234 (4)	10.00		1514888 - 3534738
71) Chlorobenzene-d5	15.447(0.000)	1212	117	2315144 (0)	10.00		1389109 - 3241253

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	2.047(0.000)	41	193376	7.235	7.24			0.5	1
2) Dichlorodifluoromethane	(1)	2.095(0.000)	85	2234450	11.717	11.72			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.237(0.000)	85	1610905	10.478	10.48			0.2	1
5) Chloromethane	(1)	2.284(0.000)	52	83029	6.880	6.88			0.5	2
6) Vinyl Chloride	(1)	2.403(0.000)	62	430893	9.188	9.19			0.2	1
7) 1,3-Butadiene	(1)	2.450(0.000)	54	253530	8.196	8.20			0.4	2
8) Bromomethane	(1)	2.771(0.000)	94	558258	9.371	9.37			0.2	1
9) Chloroethane	(1)	2.889(0.000)	64	229445	8.736	8.74			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.186(0.001)	101	2379010	12.006	12.01			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.707(-0.003)	45	97157M	5.629	5.63			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.767(0.000)	56	109940	8.462	8.46			0.5	2
17) 1,1-Dichloroethene	(1)	3.850(0.000)	61	874434	10.888	10.89			0.2	1
18) Freon 113	(1)	3.885(0.000)	103	880817	10.032	10.03			0.5	2
19) Acetone	(1)	4.016(-0.001)	43	601300	10.225	10.23			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.122(0.000)	76	1509825	10.245	10.24			0.5	1
22) Isopropanol	(1)	4.478(-0.009)	45	541692M	7.862	7.86			0.5	1
23) Acetonitrile	(1)	4.454(-0.006)	40	8930	0.542	0.54		J	0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.585(0.001)	84	465962	10.869	10.87			0.5	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)	5.154(-0.013)	53	16364	0.750	0.75		J	0.5	2
28) trans-1,2-Dichloroethene	(1)	5.059(0.000)	61	695478	10.348	10.35			0.2	1
29) Methyl t-Butyl Ether	(1)	5.154(0.000)	73	1659830	10.393	10.39			0.2	1
30) Hexane	(1)	5.593(0.000)	57	576865	8.079	8.08			0.2	1
31) 1,1-Dichloroethane	(1)	5.806(0.000)	63	903637	9.793	9.79			0.2	1
32) Vinyl Acetate	(1)	6.020(-0.001)	86	125658	9.268	9.27			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.862(0.001)	61	670553	10.076	10.08			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1366031	20.424	20.42			0.2	1
37) 2-Butanone	(1)	7.016(0.000)	72	249316	10.167	10.17			0.5	2
38) Ethyl Acetate	(1)	7.170(0.000)	70	128217	7.998	8.00			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.490(-0.003)	42	308504	8.072	8.07			0.5	1
42) Chloroform	(1)	7.478(0.001)	83	1455806	10.801	10.80			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.751(-0.000)	97	1922992	11.549	11.55			0.2	1
44) Cyclohexane	(1)	7.822(-0.000)	56	615721	8.191	8.19			0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct05.b/dj00074.d Injection date and time: **05-OCT-2015 15:16**
Data file Sample Info. Line: LCSD88;250;D1527830AA;LCSD88;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.036(0.001)	117	2151231	12.355	12.36			0.2	1
46) Benzene	(2)	8.427(-0.001)	78	1658531	9.401	9.40			0.2	1
47) 1,2-Dichloroethane	(2)	8.474(0.000)	62	999599	11.661	11.66			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.032(-0.001)	43	542246	7.731	7.73			0.2	1
52) Trichloroethene	(2)	9.660(-0.001)	130	807806	8.509	8.51			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.075(-0.000)	63	469754	9.079	9.08			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.597(-0.001)	88	385140M	8.843	8.84			0.5	1
57) Methyl Methacrylate	(2)	10.502(-0.001)	69	518376	9.196	9.20			0.5	1
58) Bromodichloromethane	(2)	10.668(-0.000)	83	1587656	10.824	10.82			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.617(-0.001)	75	984445	10.858	10.86			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.103(-0.002)	43	790791	8.399	8.40			0.5	2
61) Toluene	(3)	12.305(0.000)	91	2178839	9.488	9.49			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.862(0.000)	75	952741	10.467	10.47			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	1937186	21.325	21.32			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.242(0.000)	97	752918	9.665	9.67			0.2	1
67) Tetrachloroethene	(3)	13.491(0.000)	166	1330236	8.217	8.22			0.2	1
68) 2-Hexanone	(3)	14.012(0.000)	43	767732	9.389	9.39			0.5	1
69) Dibromochloromethane	(3)	14.096(0.000)	127	1239480	10.060	10.06			0.2	1
70) 1,2-Dibromoethane	(3)	14.297(0.000)	107	1220923	9.736	9.74			0.2	1
72) Chlorobenzene	(3)	15.507(0.000)	112	1730871	9.041	9.04			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.850(0.000)	91	2969521	9.756	9.76			0.2	1
75) m/p-Xylene	(3)	16.171(-0.000)	91	5096819	18.914	18.91			0.2	1
76) o-Xylene	(3)	17.131(0.000)	91	2621203	10.269	10.27			0.2	1
77) Xylene (total)	(3)		91	7718022	29.183	29.18			0.2	1
78) Styrene	(3)	17.190(-0.000)	104	1811276	9.355	9.35			0.2	1
79) Bromoform	(3)	17.558(0.000)	173	1756268	10.462	10.46			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	18.981(0.000)	83	1528915	10.018	10.02			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.2	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.538(0.000)	105	3422831	9.366	9.37			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.728(0.000)	105	3171127	9.573	9.57			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.701(0.000)	105	3002626	9.502	9.50			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.365(0.000)	146	1821831	9.636	9.64			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.661(-0.000)	146	1745812	9.452	9.45			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.171(-0.000)	91	2125059	10.211	10.21			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.823(0.000)	146	1676591	9.295	9.30			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	25.906(-0.000)	180	1208792	9.054	9.05			0.5	2

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct05.b/dj00074.d Injection date and time: **05-OCT-2015 15:16**
Data file Sample Info. Line: LCSD88;250;D1527830AA;LCSD88;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

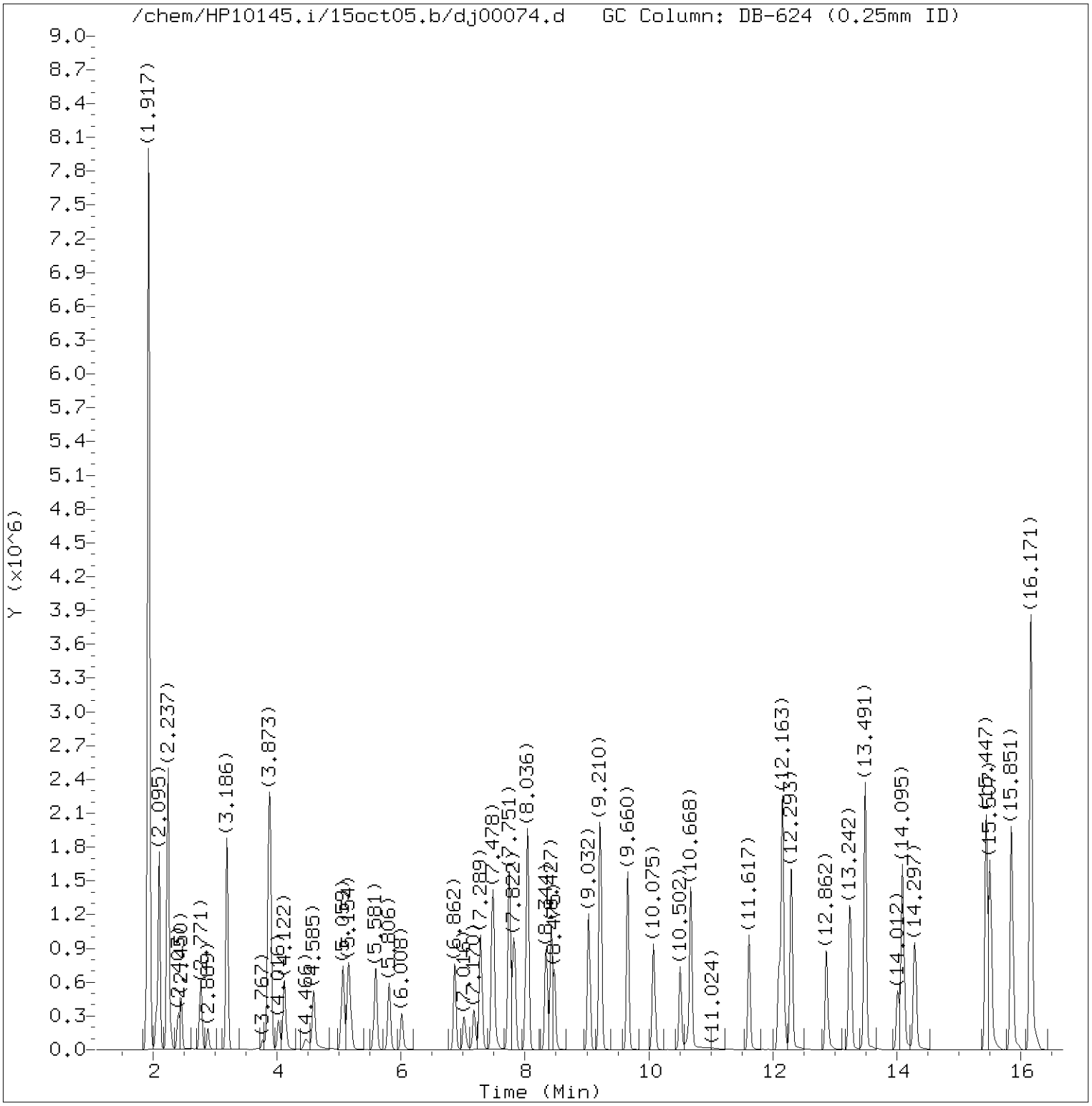
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.179(-0.000)	225	2253102	10.594	10.59			0.4	2
102) Naphthalene	(3)	26.215(-0.000)	128	2091223	9.437	9.44			0.5	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

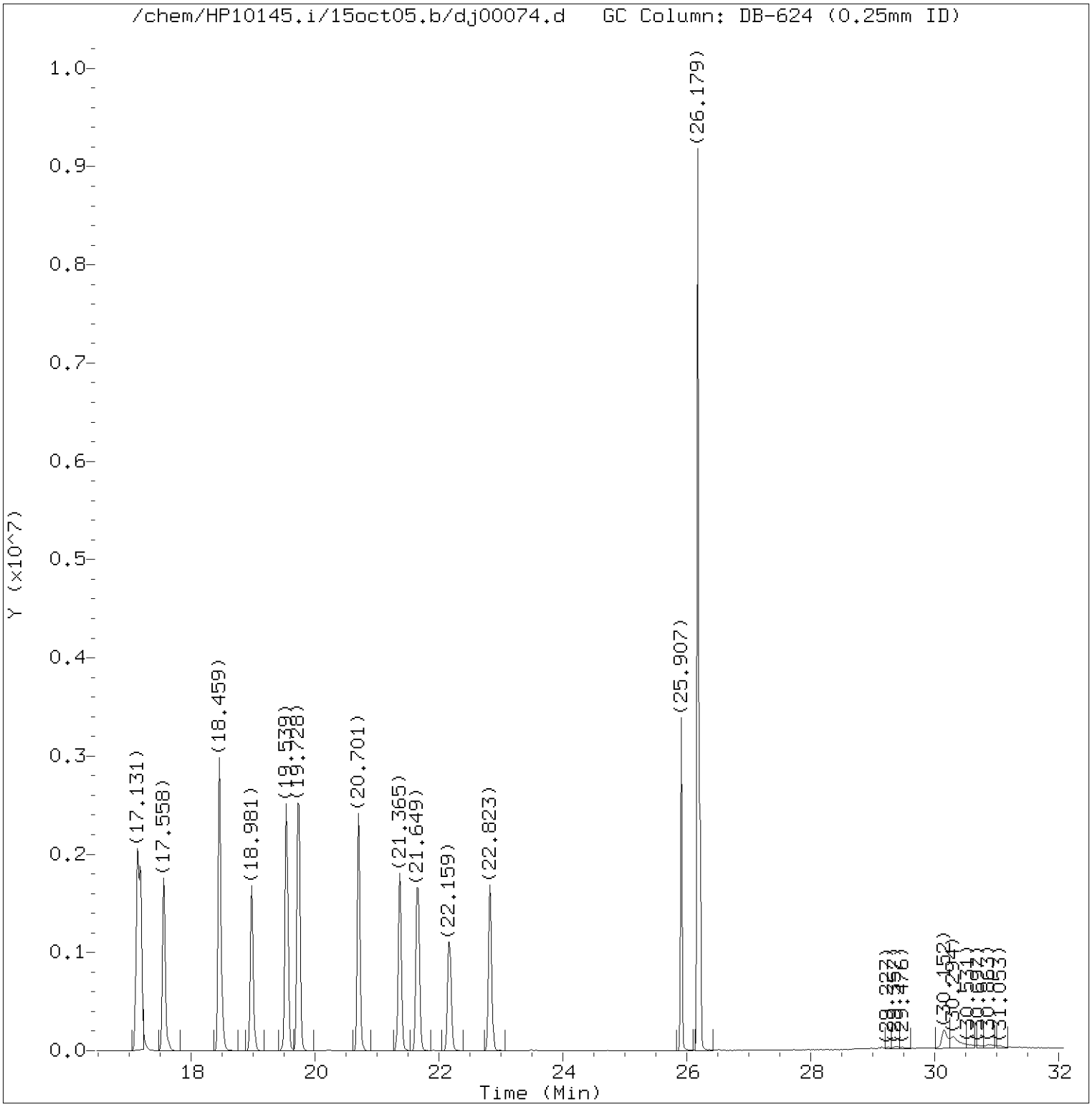
Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	193376	7.235
2) Dichlorodifluoromethane	(1)	2.095	85	2234450	11.717
4) Freon 114	(1)	2.237	85	1610905	10.478
5) Chloromethane	(1)	2.284	52	83029	6.880
6) Vinyl Chloride	(1)	2.403	62	430893	9.188
7) 1,3-Butadiene	(1)	2.450	54	253530	8.196
8) Bromomethane	(1)	2.771	94	558258	9.371
9) Chloroethane	(1)	2.889	64	229445	8.736
12) Trichlorofluoromethane	(1)	3.186	101	2379010	12.006
14) Ethanol	(1)	3.707	45	97157M	5.629
16) Acrolein	(1)	3.767	56	109940	8.462
17) 1,1-Dichloroethene	(1)	3.850	61	874434	10.888
18) Freon 113	(1)	3.885	103	880817	10.032
19) Acetone	(1)	4.016	43	601300	10.225
21) Carbon Disulfide	(1)	4.122	76	1509825	10.245
23) Acetonitrile	(1)	4.455	40	8930	0.542
22) Isopropanol	(1)	4.478	45	541692M	7.862
25) Methylene Chloride	(1)	4.585	84	465962	10.869
28) trans-1,2-Dichloroethene	(1)	5.059	61	695478	10.348
27) Acrylonitrile	(1)	5.154	53	16364	0.750
29) Methyl t-Butyl Ether	(1)	5.154	73	1659830	10.393
30) Hexane	(1)	5.593	57	576865	8.079
31) 1,1-Dichloroethane	(1)	5.806	63	903637	9.793
32) Vinyl Acetate	(1)	6.020	86	125658	9.268
36) 1,2-Dichloroethene (total)	(1)		61	1366031	20.424
35) cis-1,2-Dichloroethene	(1)	6.862	61	670553	10.076
37) 2-Butanone	(1)	7.016	72	249316	10.167
38) Ethyl Acetate	(1)	7.170	70	128217	7.998
40)*Bromochloromethane	(1)	7.289	130	664535	10.000
42) Chloroform	(1)	7.478	83	1455806	10.801
41) Tetrahydrofuran	(1)	7.490	42	308504	8.072
43) 1,1,1-Trichloroethane	(1)	7.751	97	1922992	11.549
44) Cyclohexane	(1)	7.822	56	615721	8.191
45) Carbon Tetrachloride	(1)	8.036	117	2151231	12.355
46) Benzene	(2)	8.427	78	1658531	9.401
47) 1,2-Dichloroethane	(2)	8.475	62	999599	11.661
50) Heptane	(2)	9.032	43	542246	7.731
51)*1,4-Difluorobenzene	(2)	9.210	114	2618234	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

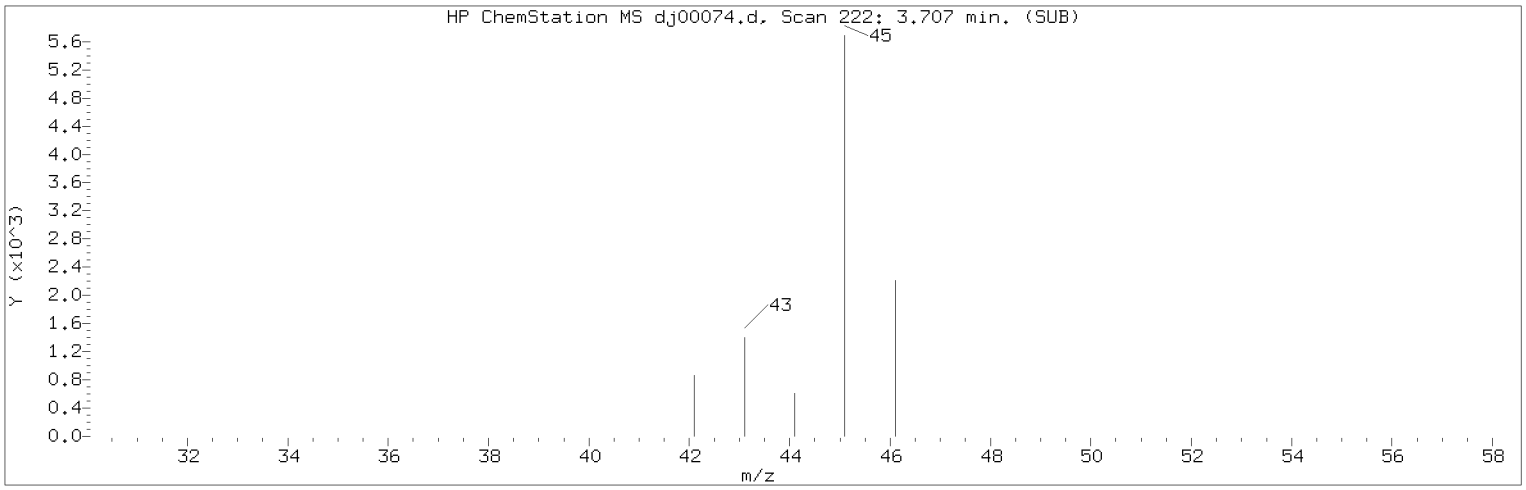
Sample Name: LCSD88 Lab Sample ID: LCSD88

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
52) Trichloroethene	(2)	9.660	130	807806	8.509
54) 1,2-Dichloropropane	(2)	10.075	63	469754	9.079
57) Methyl Methacrylate	(2)	10.502	69	518376	9.196
56) 1,4-Dioxane	(2)	10.597	88	385140M	8.843
58) Bromodichloromethane	(2)	10.668	83	1587656	10.824
59) cis-1,3-Dichloropropene	(2)	11.617	75	984445	10.858
60) 4-Methyl-2-Pentanone	(2)	12.103	43	790791	8.399
61) Toluene	(3)	12.305	91	2178839	9.488
63) trans-1,3-Dichloropropene	(3)	12.862	75	952741	10.467
64) 1,3-Dichloropropene (total)	(3)		75	1937186	21.325
66) 1,1,2-Trichloroethane	(3)	13.242	97	752918	9.665
67) Tetrachloroethene	(3)	13.491	166	1330236	8.217
68) 2-Hexanone	(3)	14.012	43	767732	9.389
69) Dibromochloromethane	(3)	14.095	127	1239480	10.060
70) 1,2-Dibromoethane	(3)	14.297	107	1220923	9.736
71)*Chlorobenzene-d5	(3)	15.447	117	2315144	10.000
72) Chlorobenzene	(3)	15.507	112	1730871	9.041
74) Ethylbenzene	(3)	15.851	91	2969521	9.756
75) m/p-Xylene	(3)	16.171	91	5096819	18.914
76) o-Xylene	(3)	17.131	91	2621203	10.269
78) Styrene	(3)	17.191	104	1811276	9.355
77) Xylene (total)	(3)		91	7718022	29.183
79) Bromoform	(3)	17.558	173	1756268	10.462
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1528915	10.018
86) 4-Ethyltoluene	(3)	19.539	105	3422831	9.366
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	3171127	9.573
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	3002626	9.502
92) 1,3-Dichlorobenzene	(3)	21.365	146	1821831	9.636
93) 1,4-Dichlorobenzene	(3)	21.661	146	1745812	9.452
95) Benzyl Chloride	(3)	22.171	91	2125059	10.211
96) 1,2-Dichlorobenzene	(3)	22.823	146	1676591	9.295
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1208792	9.054
101) Hexachlorobutadiene	(3)	26.179	225	2253102	10.594
102) Naphthalene	(3)	26.215	128	2091223	9.437

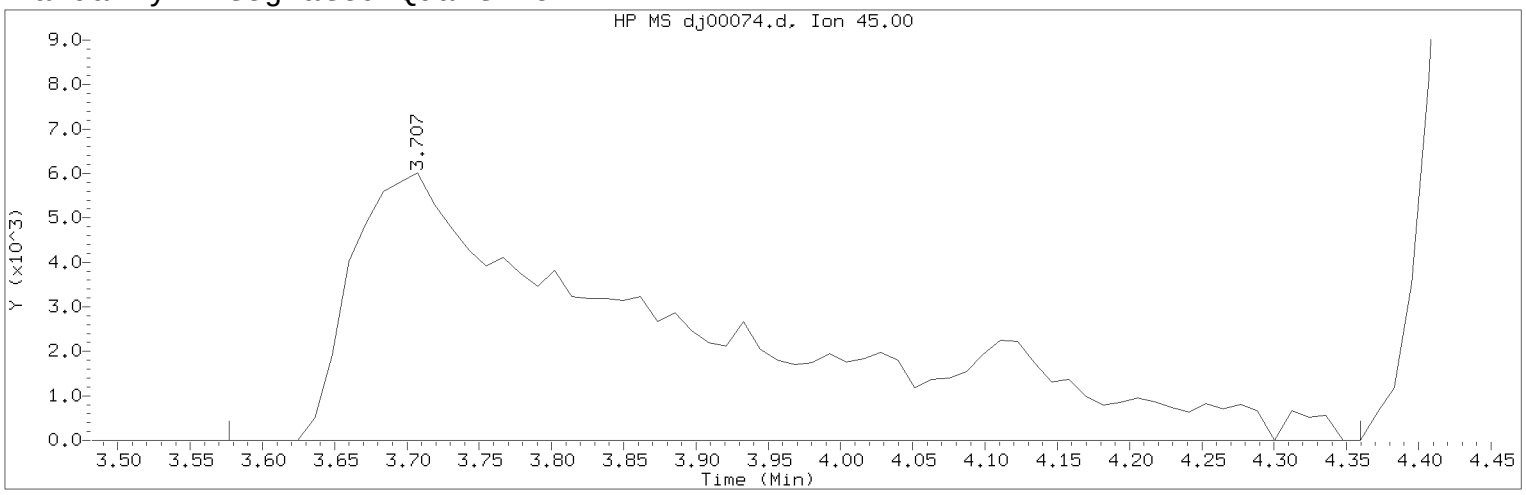
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

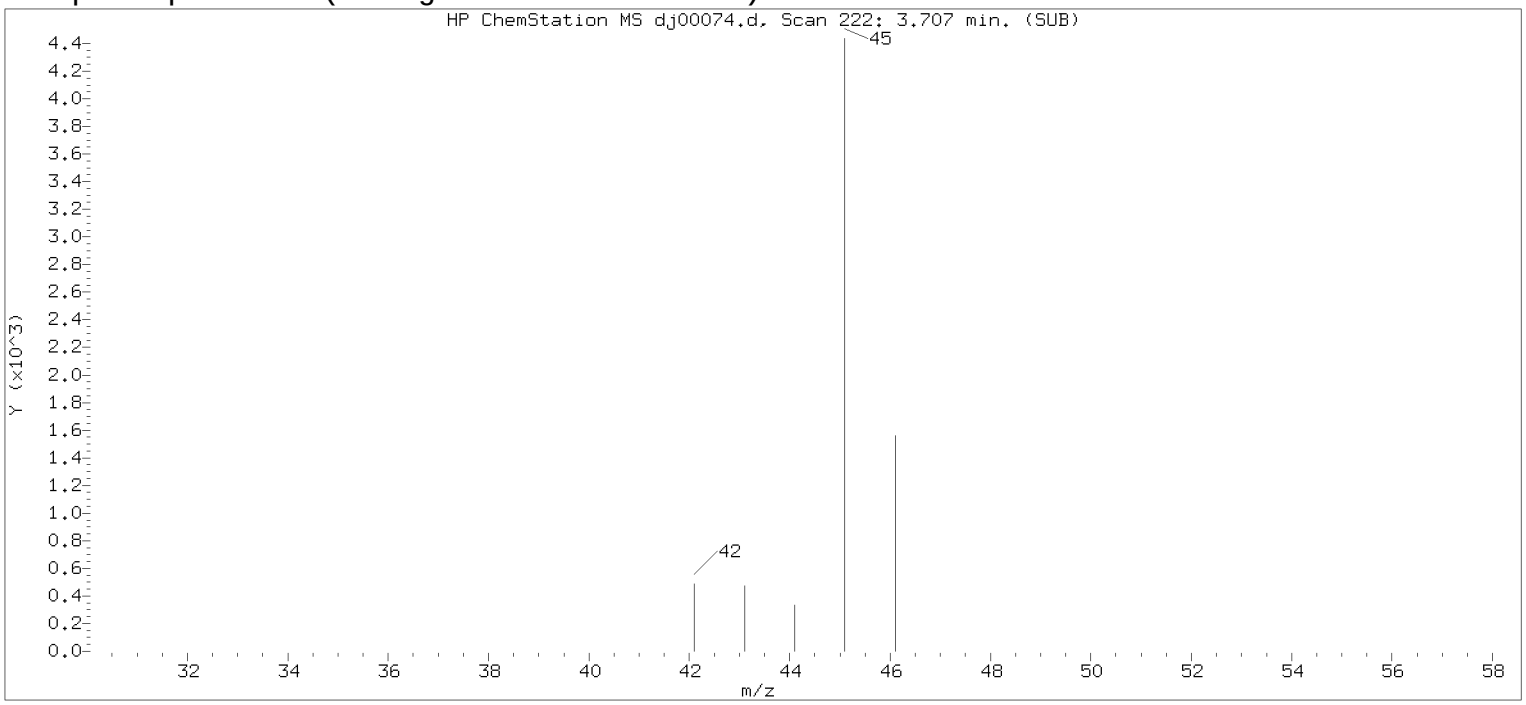
Compound Number : 14
Compound Name : Ethanol
Scan Number : 222
Retention Time (minutes): 3.707
Quant Ion : 45.00
Area (flag) : 97157M
Concentration (ppb(v)) : 5.6287
Integration start scan : 210 Integration stop scan: 276
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

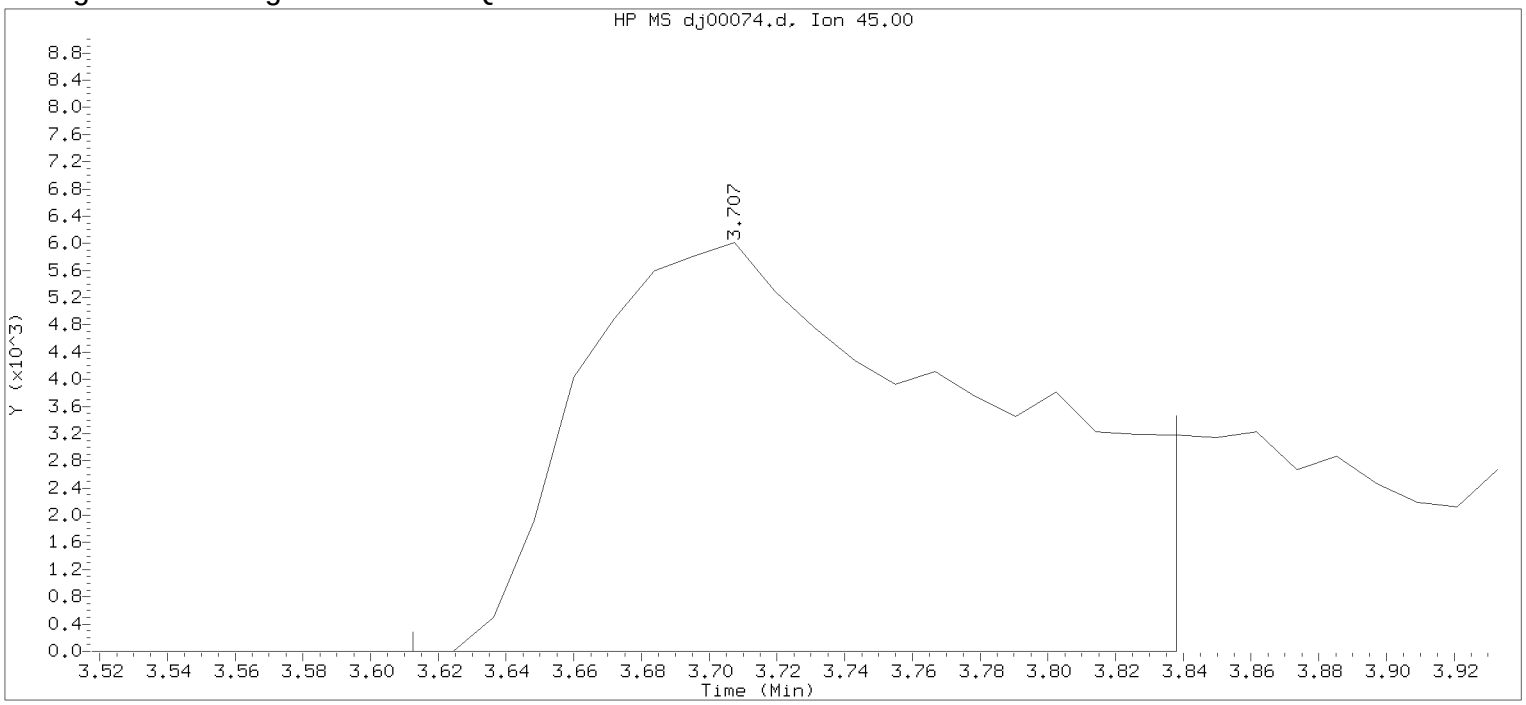
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

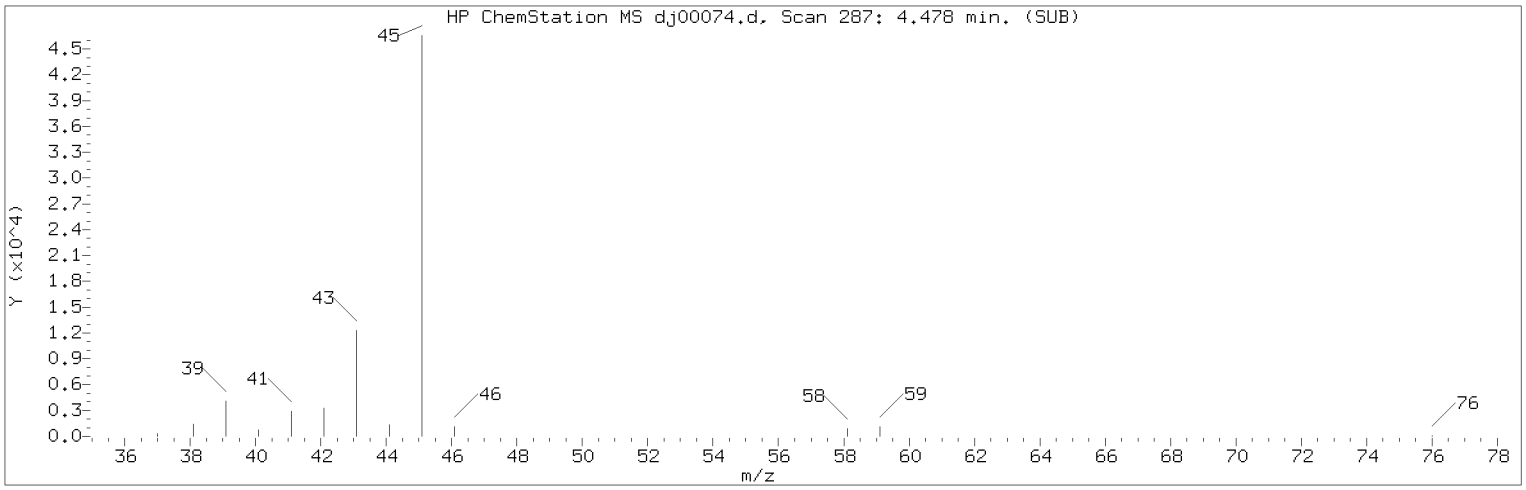
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 15:57 Automation

Sample Name: LCSD88 Lab Sample ID: LCSD88

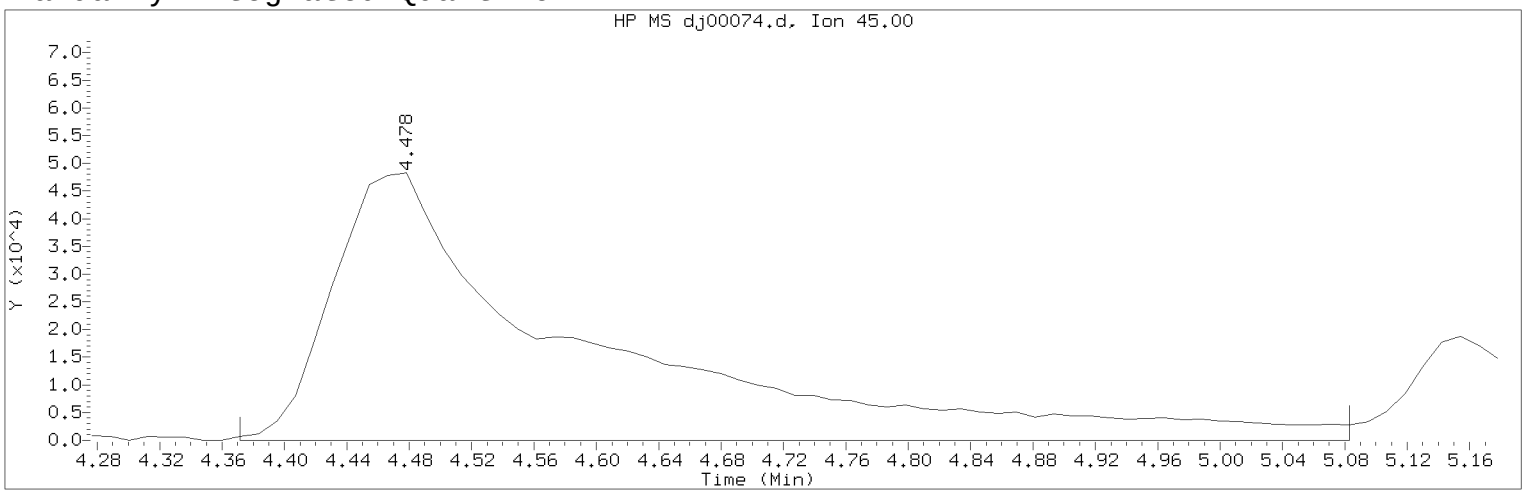
Compound Number	: 14		
Compound Name	: Ethanol		
Scan Number	: 222		
Retention Time (minutes)	: 3.707		
Quant Ion	: 45.00		
Area	: 49907		
Concentration (ppb(v))	: 2.8913		
Integration start scan	: 213	Integration stop scan:	232
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45.
Target 3.5 esignature user SDX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

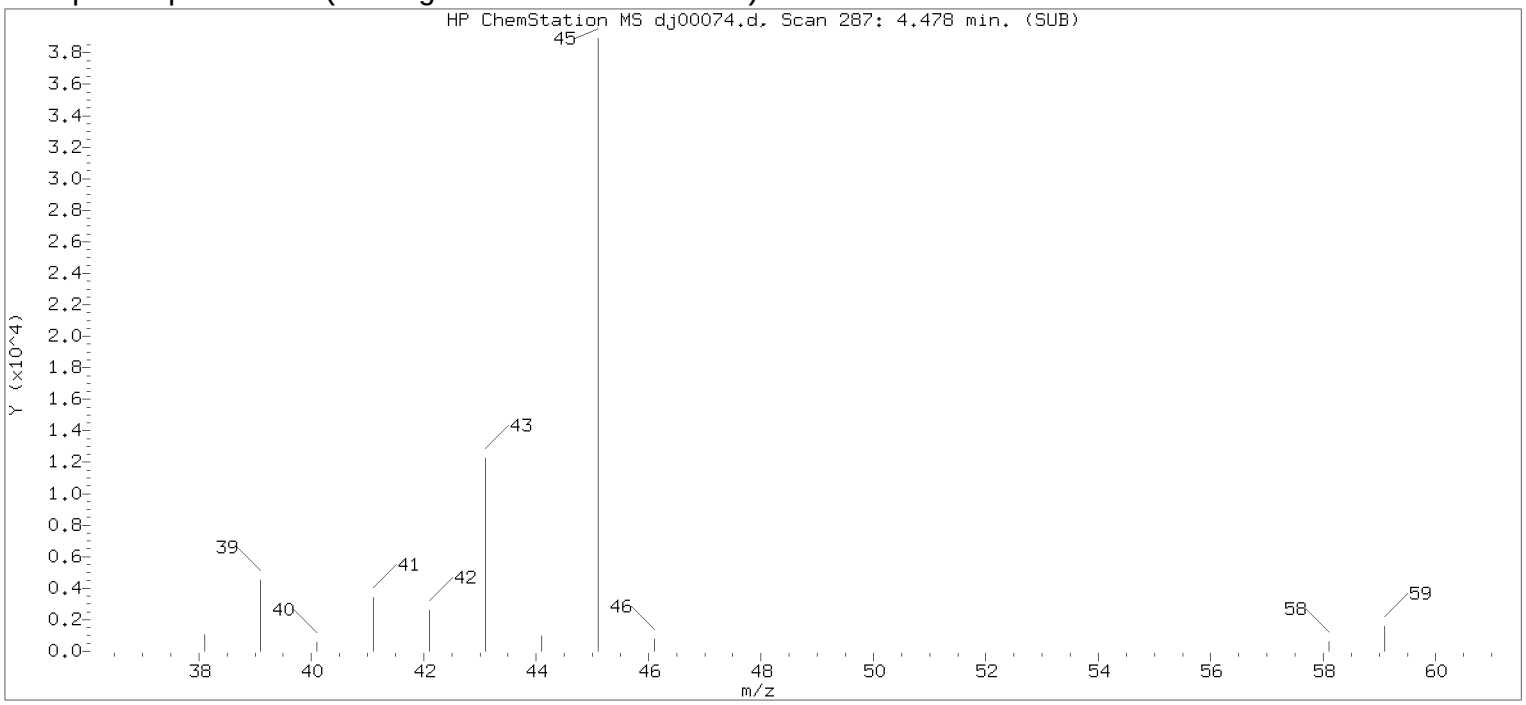
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 287
Retention Time (minutes): 4.478
Quant Ion : 45.00
Area (flag) : 541692M
Concentration (ppb(v)) : 7.8623
Integration start scan : 277 Integration stop scan: 337
Y at integration start : 8 Y at integration end: 8

Reason for manual integration: improper integration

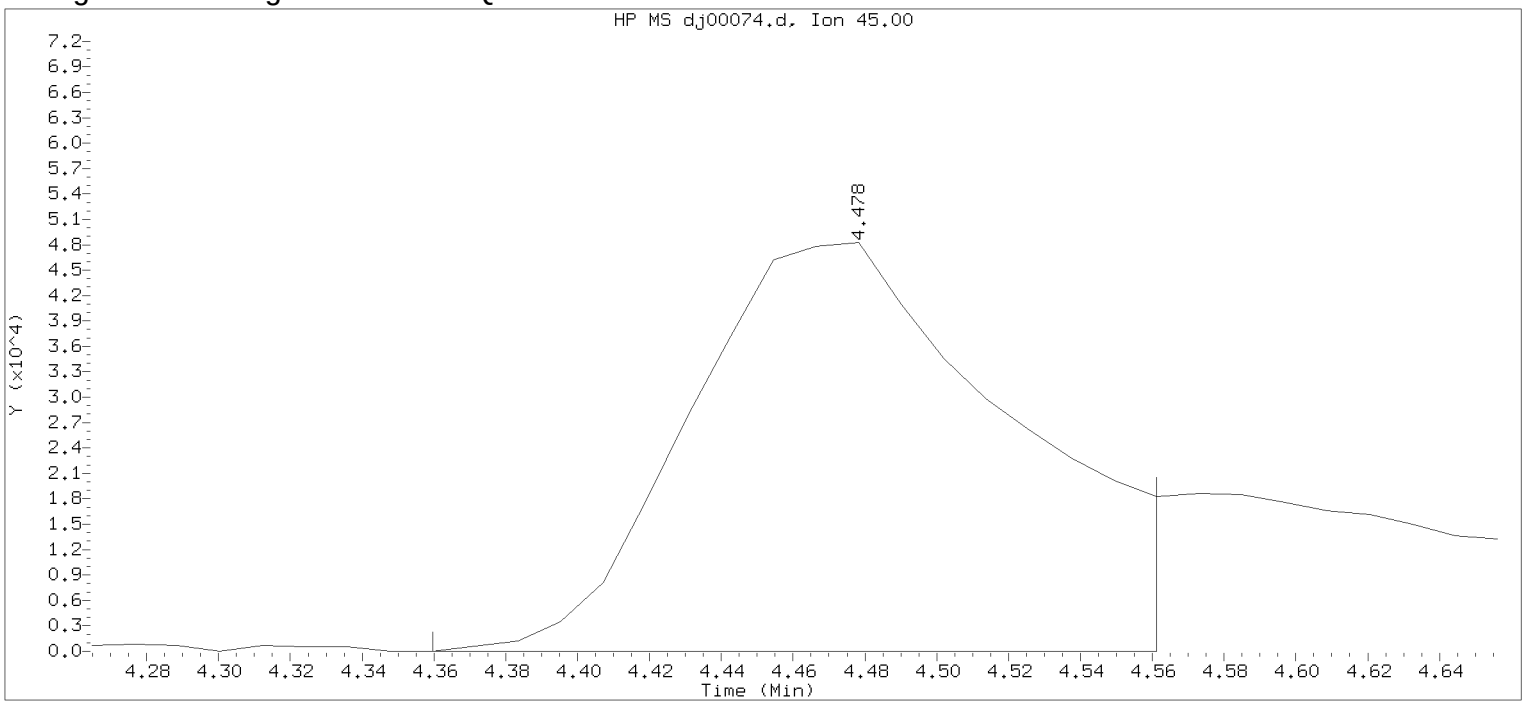
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

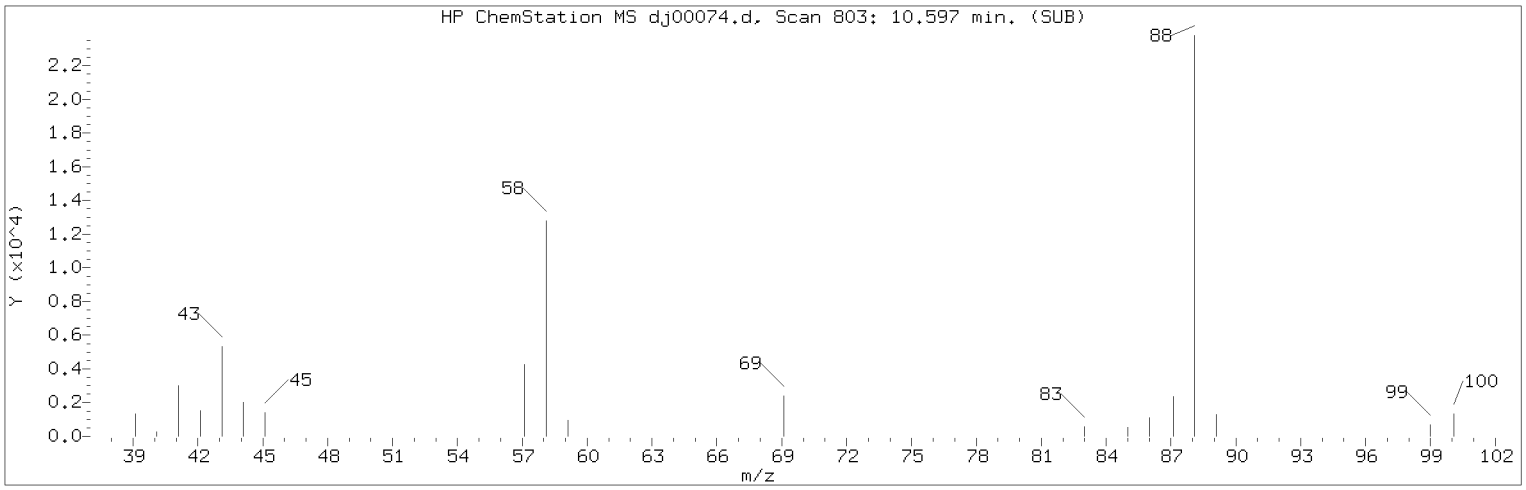
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 15:57 Automation

Sample Name: LCSD88 Lab Sample ID: LCSD88

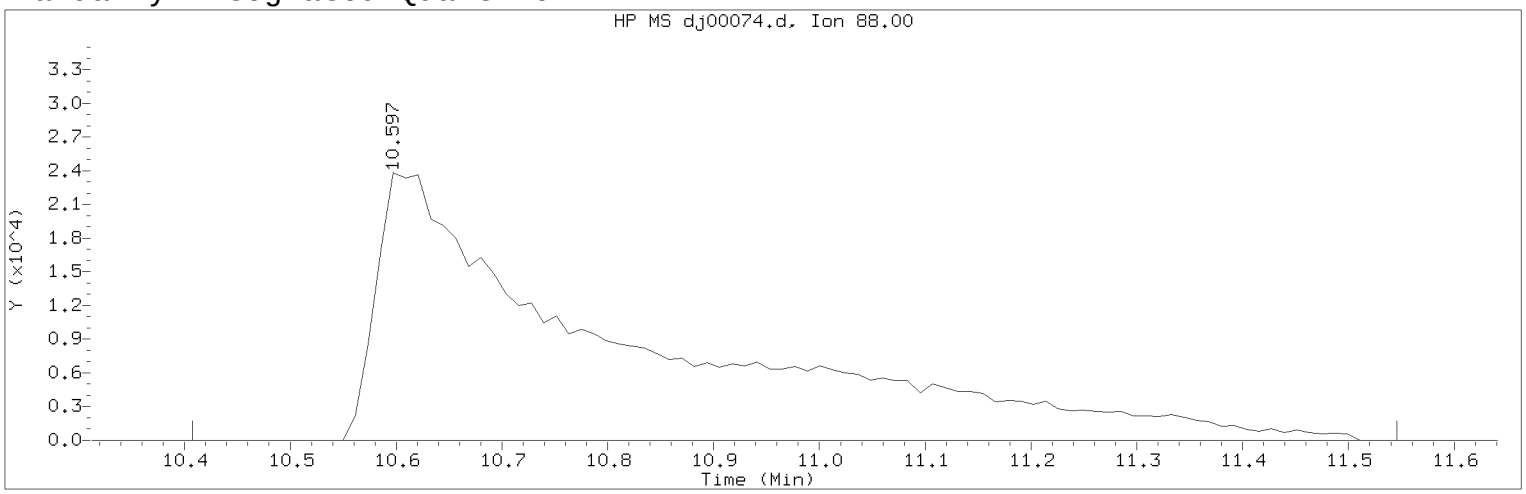
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 287
Retention Time (minutes): 4.478
Quant Ion : 45.00
Area : 300307
Concentration (ppb(v)) : 4.3588
Integration start scan : 276 Integration stop scan: 293
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45.
Target 3.5 esignature user SDX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:44 jeb07445

Sample Name: LCSD88 Lab Sample ID: LCSD88

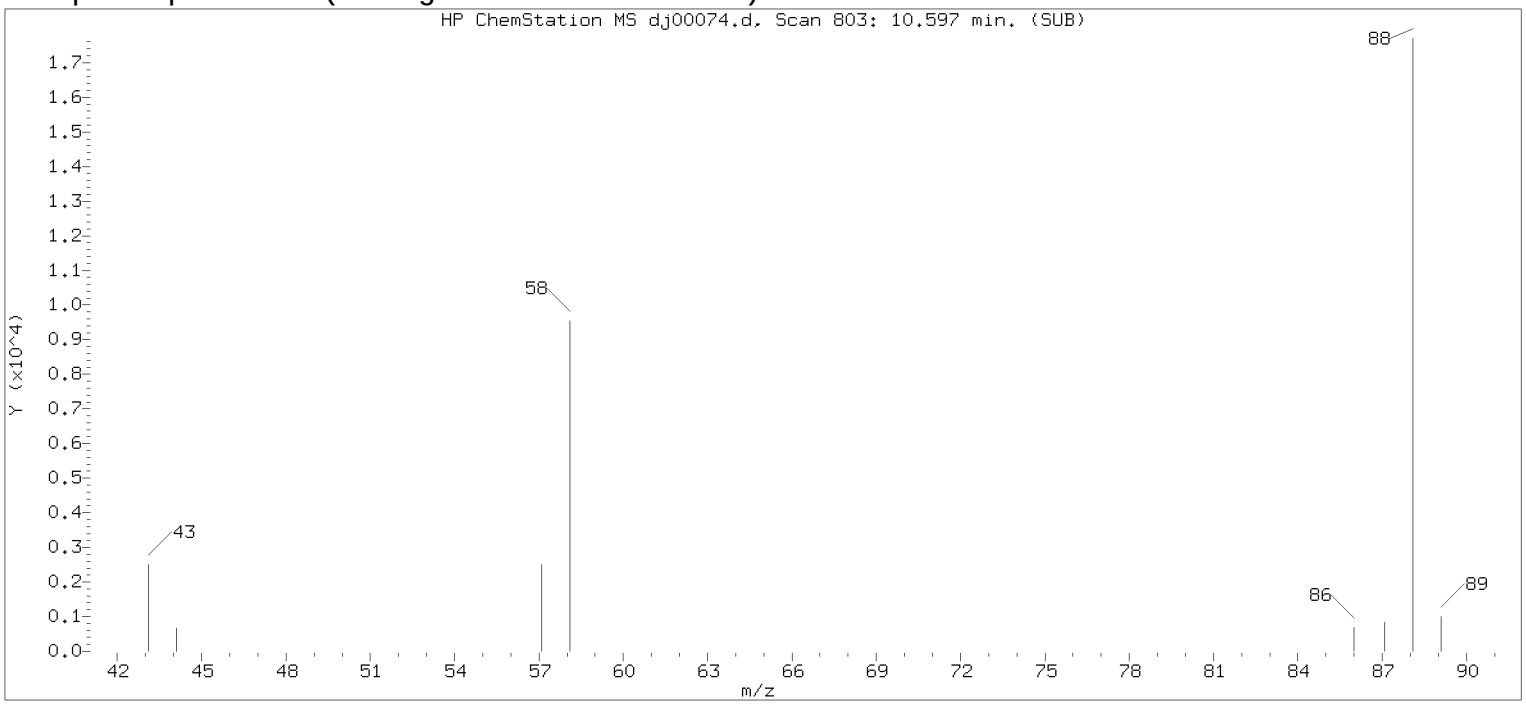
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 803
Retention Time (minutes): 10.597
Quant Ion : 88.00
Area (flag) : 385140M
Concentration (ppb(v)) : 8.8434
Integration start scan : 786 Integration stop scan: 882
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

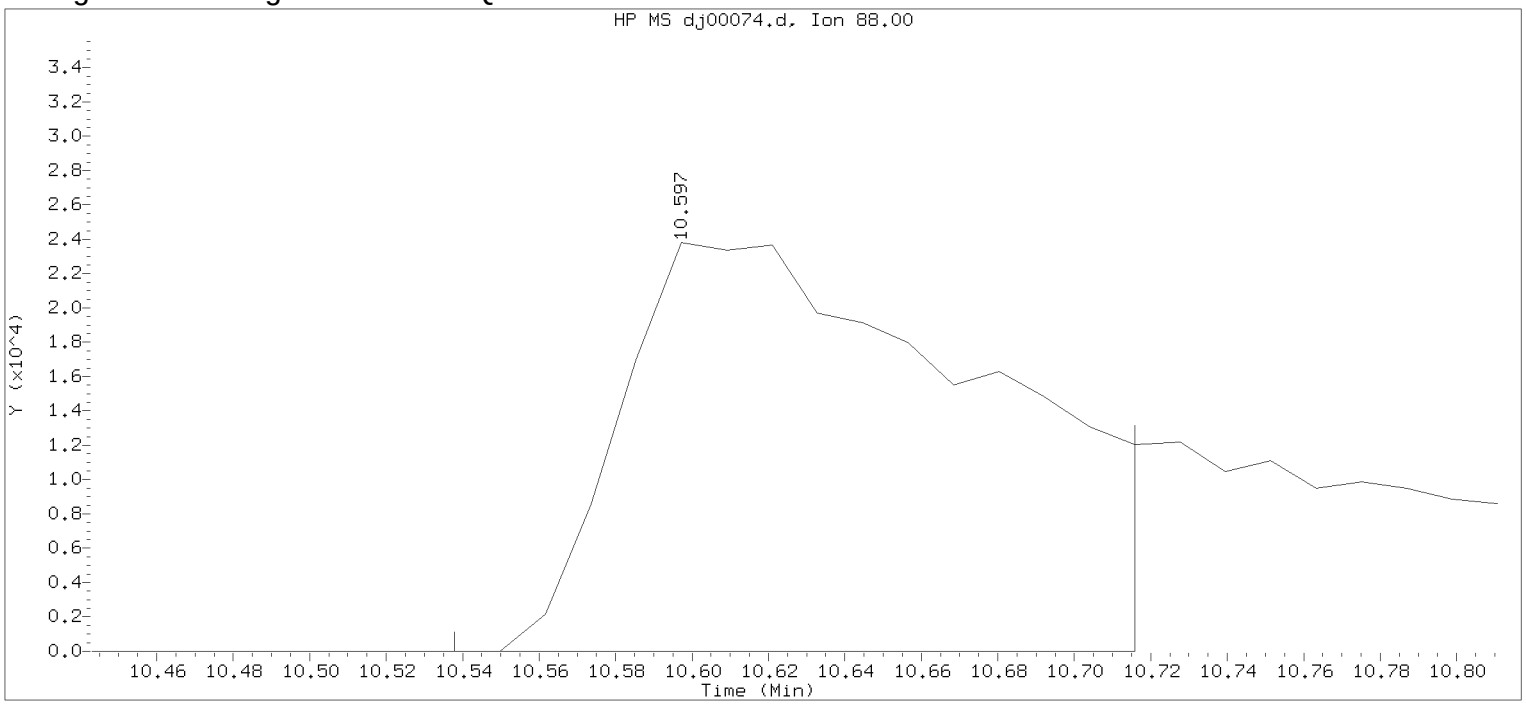
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 16:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00074.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 15:16 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 15:57 Automation

Sample Name: LCSD88 Lab Sample ID: LCSD88

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 803
Retention Time (minutes): 10.597
Quant Ion : 88.00
Area : 157289
Concentration (ppb(v)) : 3.6116
Integration start scan : 797 Integration stop scan: 812
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/05/2015 at 16:45.
Target 3.5 esignature user SDX07jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct05.b/dj00075.d Injection date and time: **05-OCT-2015 16:02**
Data file Sample Info. Line: LCSDD88;250;D1527830AA;LCSDD88;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.277(0.012)	523	130	714970 (9)	10.00		392766 - 916452
51) 1,4-Difluorobenzene	9.198(0.024)	685	114	2807301 (11)	10.00		1514888 - 3534738
71) Chlorobenzene-d5	15.436(0.012)	1211	117	2533107 (9)	10.00		1389109 - 3241253

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.656(0.053)	41	216512M	7.529	7.53			0.5	1
2) Dichlorodifluoromethane	(1)	2.059(0.004)	85	2479945MA	12.087	12.09			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.213(0.002)	85	1814419	10.970	10.97			0.2	1
5) Chloromethane	(1)	2.249(0.004)	52	95911	7.387	7.39			0.5	2
6) Vinyl Chloride	(1)	2.379(0.002)	62	497636	9.863	9.86			0.2	1
7) 1,3-Butadiene	(1)	2.427(0.002)	54	287961	8.653	8.65			0.4	2
8) Bromomethane	(1)	2.747(0.002)	94	634068	9.893	9.89			0.2	1
9) Chloroethane	(1)	2.866(0.002)	64	264326	9.354	9.35			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.174(0.002)	101	2605661	12.222	12.22			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.601(0.010)	45	122014M	6.570	6.57			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.743(0.002)	56	131567	9.412	9.41			0.5	2
17) 1,1-Dichloroethene	(1)	3.826(0.002)	61	973869	11.271	11.27			0.2	1
18) Freon 113	(1)	3.862(0.002)	103	986688	10.445	10.45			0.5	2
19) Acetone	(1)	3.980(0.002)	43	698706	11.044	11.04			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.099(0.002)	76	1651805	10.417	10.42			0.5	1
22) Isopropanol	(1)	4.348(0.007)	45	671008M	9.052	9.05			0.5	1
23) Acetonitrile	(1)	4.336(0.008)	40	17761	1.002	1.00		J	0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.573(0.002)	84	514563	11.156	11.16			0.5	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)	5.131(-0.010)	53	19334	0.824	0.82		J	0.5	2
28) trans-1,2-Dichloroethene	(1)	5.036(0.002)	61	772328	10.681	10.68			0.2	1
29) Methyl t-Butyl Ether	(1)	5.131(0.002)	73	1871063	10.889	10.89			0.2	1
30) Hexane	(1)	5.569(0.002)	57	665895	8.668	8.67			0.2	1
31) 1,1-Dichloroethane	(1)	5.795(0.000)	63	1037899	10.455	10.45			0.2	1
32) Vinyl Acetate	(1)	5.996(0.000)	86	150854	10.341	10.34			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.850(0.001)	61	764350	10.675	10.68			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1536678	21.356	21.36			0.2	1
37) 2-Butanone	(1)	6.850(0.021)	72	299251	11.342	11.34			0.5	2
38) Ethyl Acetate	(1)	7.146(0.001)	70	149778	8.684	8.68			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.443(0.001)	42	369159	8.978	8.98			0.5	1
42) Chloroform	(1)	7.467(0.001)	83	1665630	11.486	11.49			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.739(-0.000)	97	2165186	12.087	12.09			0.2	1
44) Cyclohexane	(1)	7.811(-0.000)	56	707955	8.754	8.75			0.2	1

M = Compound was manually integrated. A = User selected an alternate peak.

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP10145.i/15oct05.b/dj00075.d Injection date and time: **05-OCT-2015 16:02**
Data file Sample Info. Line: LCSDD88;250;D1527830AA;LCSDD88;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.024(0.001)	117	2407687	12.853	12.85			0.2	1
46) Benzene	(2)	8.415(-0.001)	78	1911194	10.103	10.10			0.2	1
47) 1,2-Dichloroethane	(2)	8.463(0.000)	62	1124310	12.233	12.23			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.020(-0.001)	43	631228	8.394	8.39			0.2	1
52) Trichloroethene	(2)	9.649(-0.001)	130	936472	9.200	9.20			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.064(-0.000)	63	541425	9.760	9.76			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.538(0.003)	88	484626M	10.378	10.38			0.5	1
57) Methyl Methacrylate	(2)	10.479(-0.000)	69	616819	10.206	10.21			0.5	1
58) Bromodichloromethane	(2)	10.657(-0.000)	83	1815192	11.542	11.54			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.605(-0.001)	75	1144021	11.768	11.77			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.056(0.000)	43	923501	9.148	9.15			0.5	2
61) Toluene	(3)	12.281(0.000)	91	2547505	10.139	10.14			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.850(0.000)	75	1115883	11.204	11.20			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	2259904	22.972	22.97			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.230(0.000)	97	880544	10.331	10.33			0.2	1
67) Tetrachloroethene	(3)	13.479(0.000)	166	1570620	8.868	8.87			0.2	1
68) 2-Hexanone	(3)	13.965(0.003)	43	938628	10.492	10.49			0.5	1
69) Dibromochloromethane	(3)	14.084(0.000)	127	1449250	10.751	10.75			0.2	1
70) 1,2-Dibromoethane	(3)	14.274(0.000)	107	1443203	10.519	10.52			0.2	1
72) Chlorobenzene	(3)	15.495(0.000)	112	2047246	9.773	9.77			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.839(0.000)	91	3519788	10.569	10.57			0.2	1
75) m/p-Xylene	(3)	16.147(0.000)	91	6004276	20.364	20.36			0.2	1
76) o-Xylene	(3)	17.120(0.000)	91	3084860	11.046	11.05			0.2	1
77) Xylene (total)	(3)		91	9089136	31.410	31.41			0.2	1
78) Styrene	(3)	17.167(0.000)	104	2188568	10.331	10.33			0.2	1
79) Bromoform	(3)	17.546(0.000)	173	2082055	11.336	11.34			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	18.969(0.000)	83	1801700	10.789	10.79			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.2	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.527(0.000)	105	4027633	10.073	10.07			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.716(0.000)	105	3739668	10.318	10.32			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.689(0.000)	105	3571873	10.331	10.33			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.353(0.000)	146	2202098	10.645	10.65			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.638(0.000)	146	2117679	10.478	10.48			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.148(0.000)	91	2630821	11.554	11.55			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.812(0.000)	146	2020921	10.240	10.24			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	25.907(-0.001)	180	1696424	11.613	11.61			0.5	2

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP10145.i/15oct05.b/dj00075.d Injection date and time: **05-OCT-2015 16:02**
Data file Sample Info. Line: LCSDD88;250;D1527830AA;LCSDD88;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1527830AA**
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct05.b/dj00073.d**

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct05.b/dj00071.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

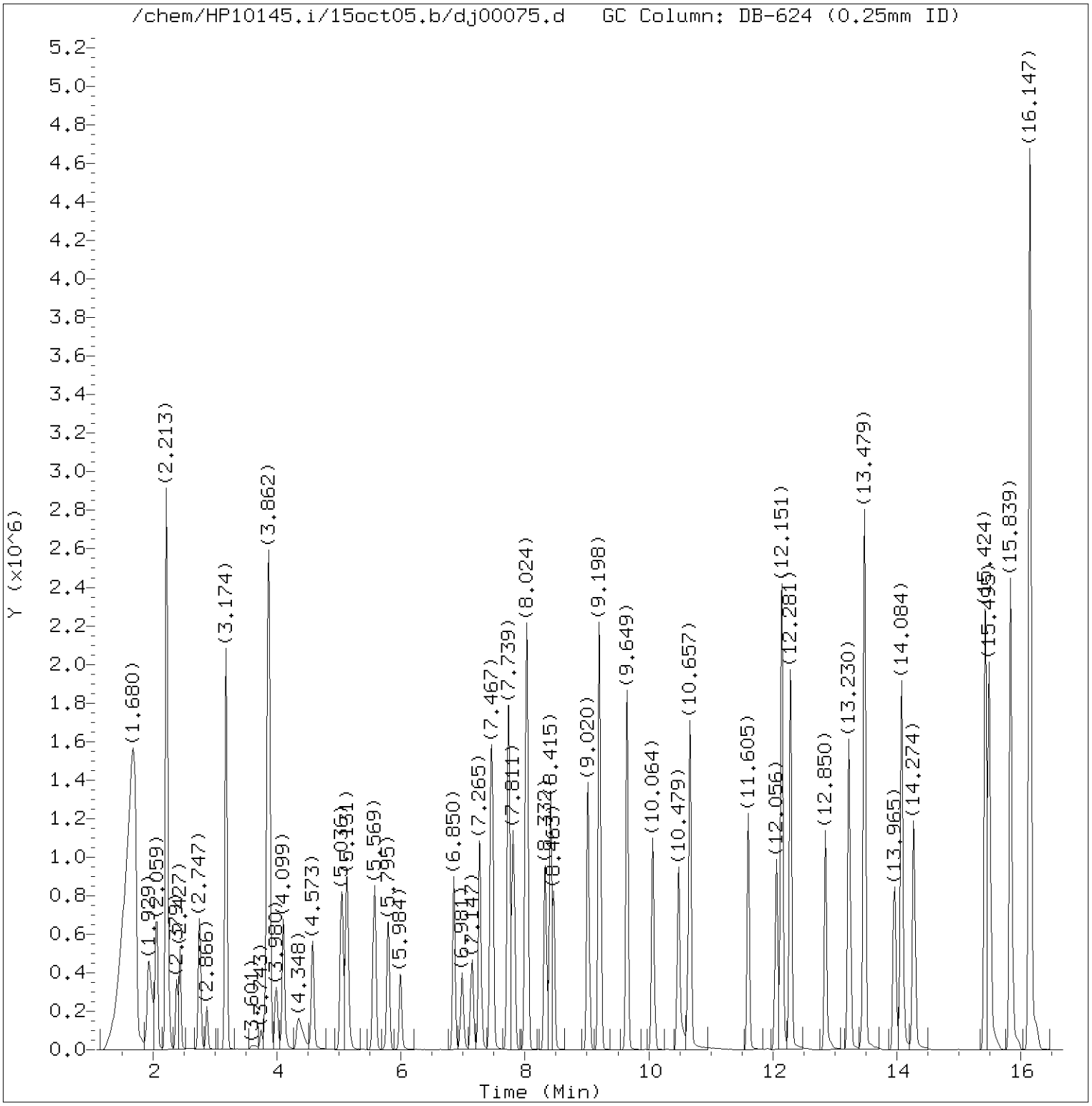
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.179(-0.001)	225	2927370	12.580	12.58			0.4	2
102) Naphthalene	(3)	26.203(-0.000)	128	3147932	12.983	12.98			0.5	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

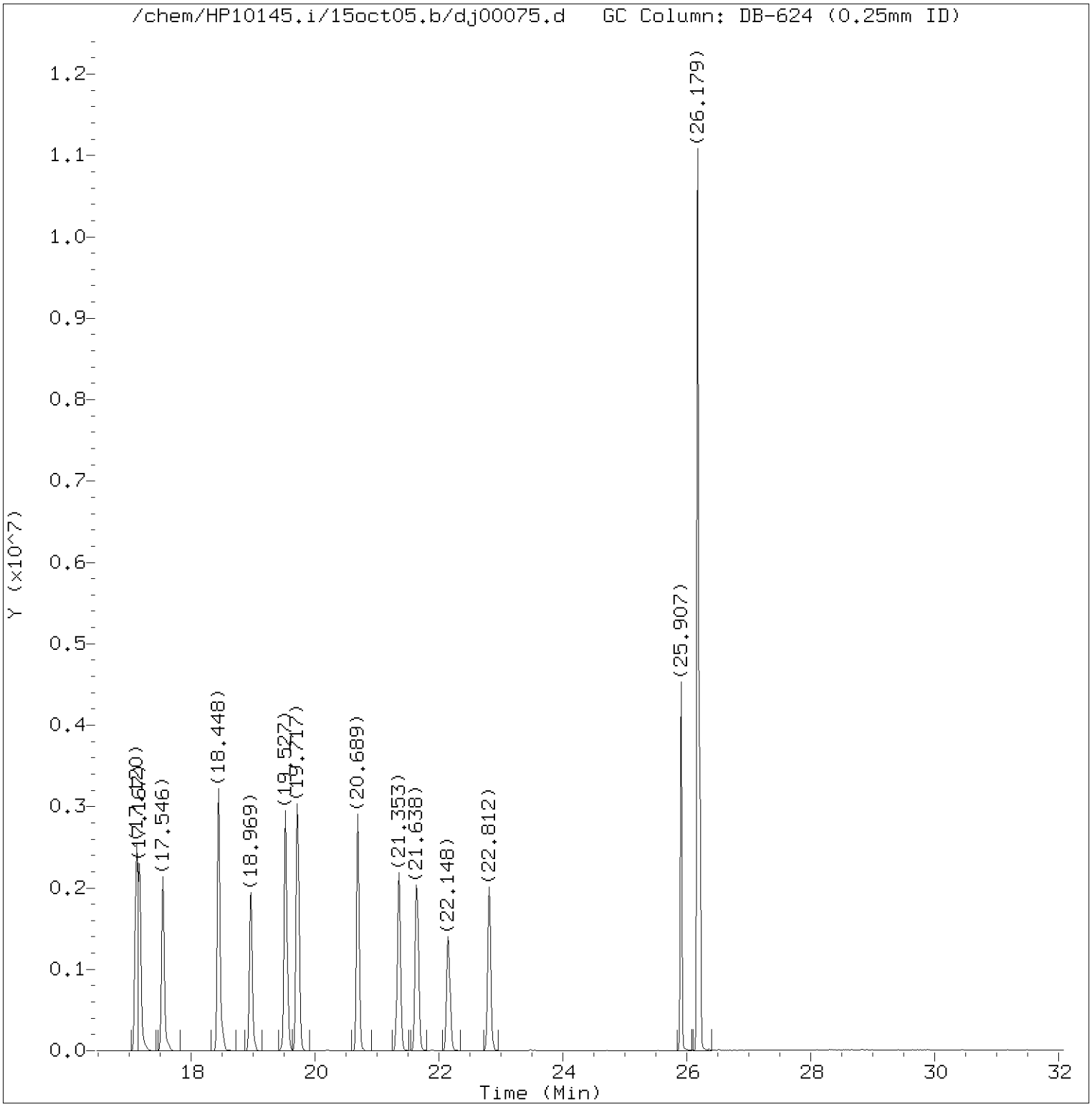
Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.656	41	216512M	7.529
2) Dichlorodifluoromethane	(1)	2.059	85	2479945MA	12.087
4) Freon 114	(1)	2.213	85	1814419	10.970
5) Chloromethane	(1)	2.249	52	95911	7.387
6) Vinyl Chloride	(1)	2.379	62	497636	9.863
7) 1,3-Butadiene	(1)	2.427	54	287961	8.653
8) Bromomethane	(1)	2.747	94	634068	9.893
9) Chloroethane	(1)	2.866	64	264326	9.354
12) Trichlorofluoromethane	(1)	3.174	101	2605661	12.222
14) Ethanol	(1)	3.601	45	122014M	6.570
16) Acrolein	(1)	3.743	56	131567	9.412
17) 1,1-Dichloroethene	(1)	3.826	61	973869	11.271
18) Freon 113	(1)	3.862	103	986688	10.445
19) Acetone	(1)	3.980	43	698706	11.044
21) Carbon Disulfide	(1)	4.099	76	1651805	10.417
23) Acetonitrile	(1)	4.336	40	17761	1.002
22) Isopropanol	(1)	4.348	45	671008M	9.052
25) Methylene Chloride	(1)	4.573	84	514563	11.156
28) trans-1,2-Dichloroethene	(1)	5.036	61	772328	10.681
27) Acrylonitrile	(1)	5.131	53	19334	0.824
29) Methyl t-Butyl Ether	(1)	5.131	73	1871063	10.889
30) Hexane	(1)	5.569	57	665895	8.668
31) 1,1-Dichloroethane	(1)	5.795	63	1037899	10.455
32) Vinyl Acetate	(1)	5.996	86	150854	10.341
36) 1,2-Dichloroethene (total)	(1)		61	1536678	21.356
35) cis-1,2-Dichloroethene	(1)	6.850	61	764350	10.675
37) 2-Butanone	(1)	6.850	72	299251	11.342
38) Ethyl Acetate	(1)	7.147	70	149778	8.684
40)*Bromochloromethane	(1)	7.277	130	714970	10.000
41) Tetrahydrofuran	(1)	7.443	42	369159	8.978
42) Chloroform	(1)	7.467	83	1665630	11.486
43) 1,1,1-Trichloroethane	(1)	7.739	97	2165186	12.087
44) Cyclohexane	(1)	7.811	56	707955	8.754
45) Carbon Tetrachloride	(1)	8.024	117	2407687	12.853
46) Benzene	(2)	8.415	78	1911194	10.103
47) 1,2-Dichloroethane	(2)	8.463	62	1124310	12.233
50) Heptane	(2)	9.020	43	631228	8.394
51)*1,4-Difluorobenzene	(2)	9.198	114	2807301	10.000

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

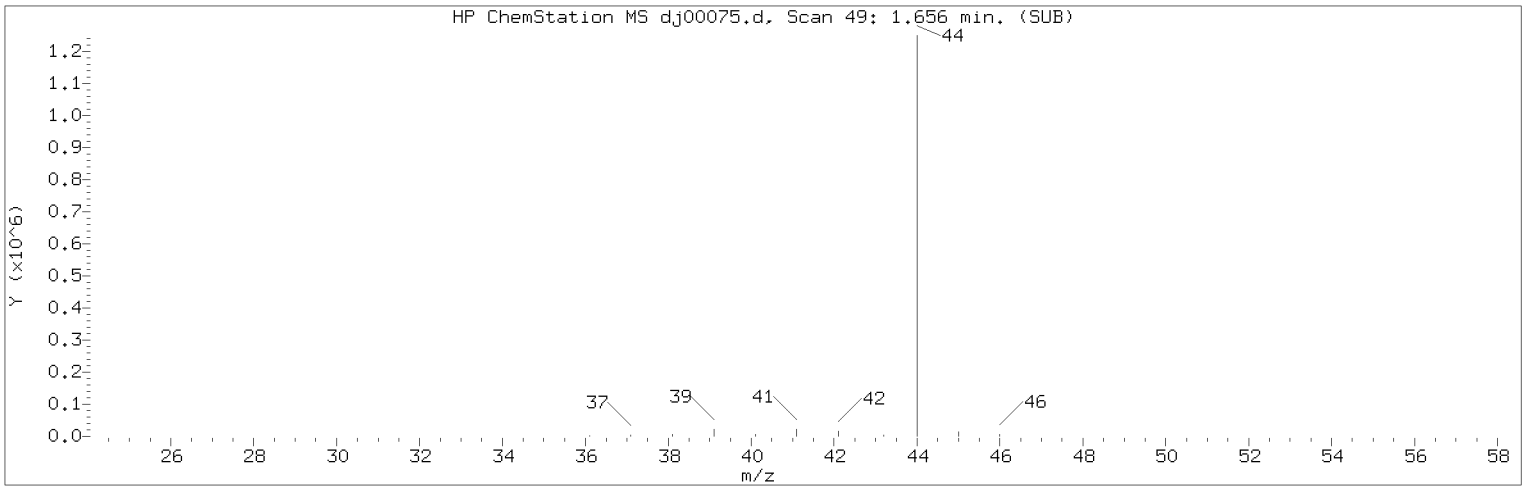
Sample Name: LCSDD88 Lab Sample ID: LCSDD88

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
52) Trichloroethene	(2)	9.649	130	936472	9.200
54) 1,2-Dichloropropane	(2)	10.064	63	541425	9.760
57) Methyl Methacrylate	(2)	10.479	69	616819	10.206
56) 1,4-Dioxane	(2)	10.538	88	484626M	10.378
58) Bromodichloromethane	(2)	10.657	83	1815192	11.542
59) cis-1,3-Dichloropropene	(2)	11.605	75	1144021	11.768
60) 4-Methyl-2-Pentanone	(2)	12.056	43	923501	9.148
61) Toluene	(3)	12.281	91	2547505	10.139
63) trans-1,3-Dichloropropene	(3)	12.850	75	1115883	11.204
64) 1,3-Dichloropropene (total)	(3)		75	2259904	22.972
66) 1,1,2-Trichloroethane	(3)	13.230	97	880544	10.331
67) Tetrachloroethene	(3)	13.479	166	1570620	8.868
68) 2-Hexanone	(3)	13.965	43	938628	10.492
69) Dibromochloromethane	(3)	14.084	127	1449250	10.751
70) 1,2-Dibromoethane	(3)	14.274	107	1443203	10.519
71)*Chlorobenzene-d5	(3)	15.436	117	2533107	10.000
72) Chlorobenzene	(3)	15.495	112	2047246	9.773
74) Ethylbenzene	(3)	15.839	91	3519788	10.569
75) m/p-Xylene	(3)	16.147	91	6004276	20.364
76) o-Xylene	(3)	17.120	91	3084860	11.046
78) Styrene	(3)	17.167	104	2188568	10.331
77) Xylene (total)	(3)		91	9089136	31.410
79) Bromoform	(3)	17.546	173	2082055	11.336
82) 1,1,2,2-Tetrachloroethane	(3)	18.969	83	1801700	10.789
86) 4-Ethyltoluene	(3)	19.527	105	4027633	10.073
87) 1,3,5-Trimethylbenzene	(3)	19.717	105	3739668	10.318
90) 1,2,4-Trimethylbenzene	(3)	20.689	105	3571873	10.331
92) 1,3-Dichlorobenzene	(3)	21.353	146	2202098	10.645
93) 1,4-Dichlorobenzene	(3)	21.638	146	2117679	10.478
95) Benzyl Chloride	(3)	22.148	91	2630821	11.554
96) 1,2-Dichlorobenzene	(3)	22.812	146	2020921	10.240
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1696424	11.613
101) Hexachlorobutadiene	(3)	26.179	225	2927370	12.580
102) Naphthalene	(3)	26.203	128	3147932	12.983

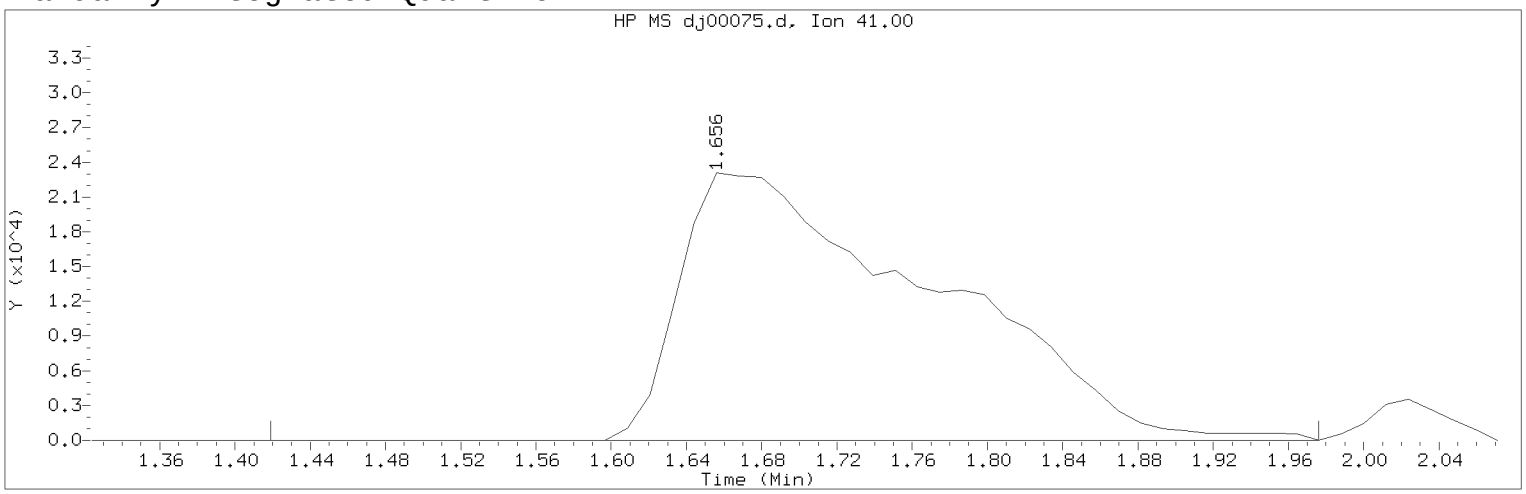
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

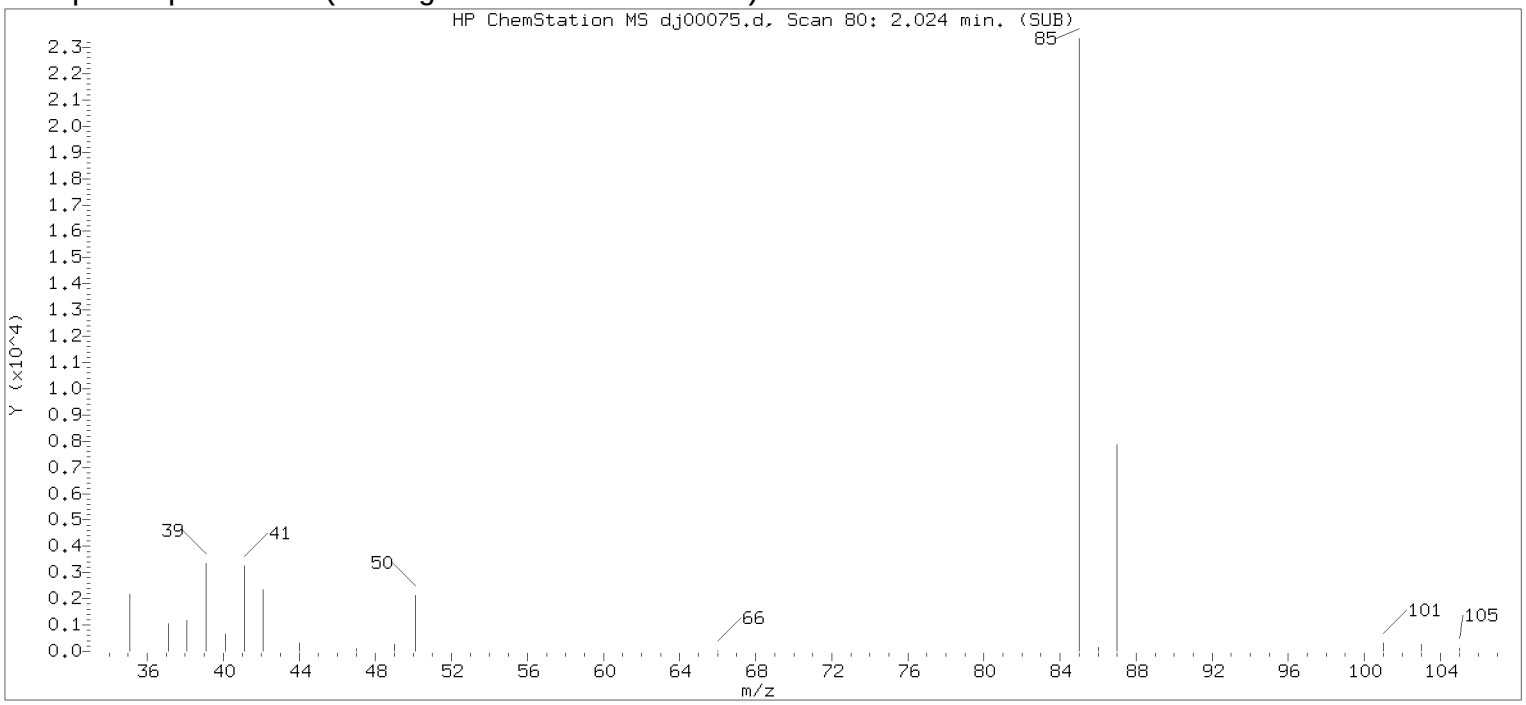
Compound Number : 1
Compound Name : Propene
Scan Number : 49
Retention Time (minutes): 1.656
Quant Ion : 41.00
Area (flag) : 216512M
Concentration (ppb(v)) : 7.5294
Integration start scan : 28 Integration stop scan: 75
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

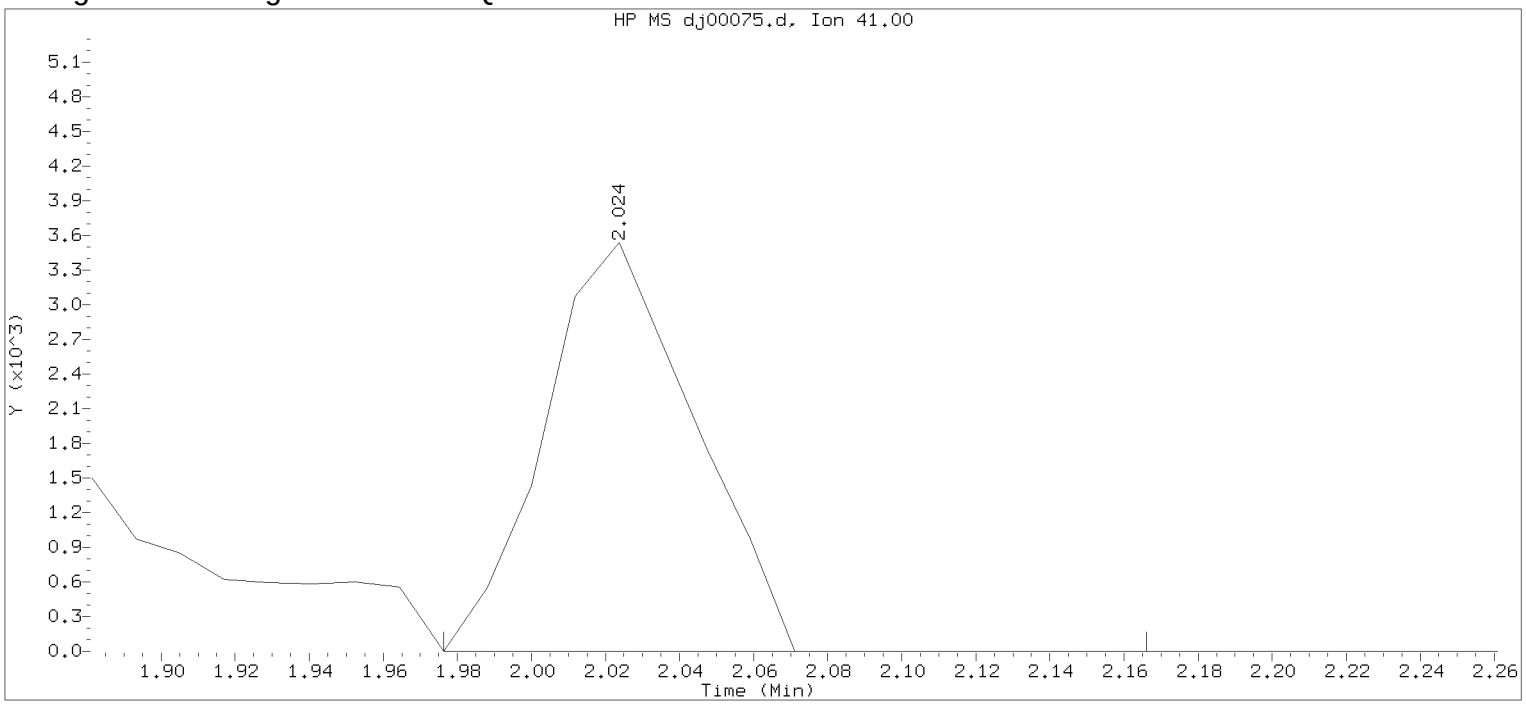
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

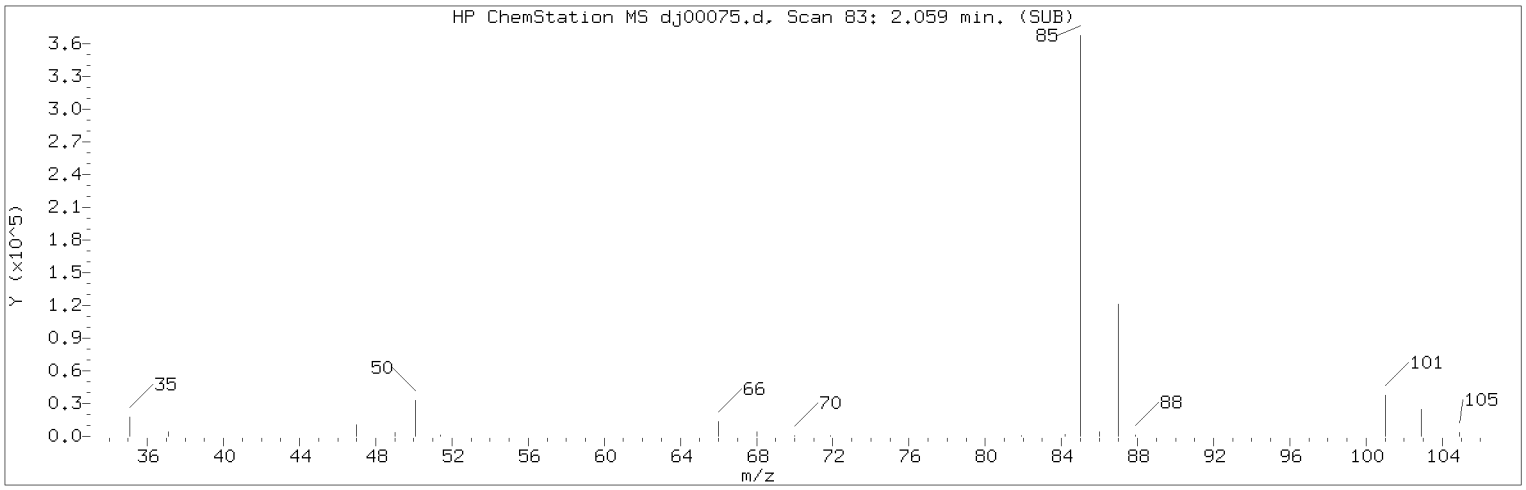
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:43 Automation

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

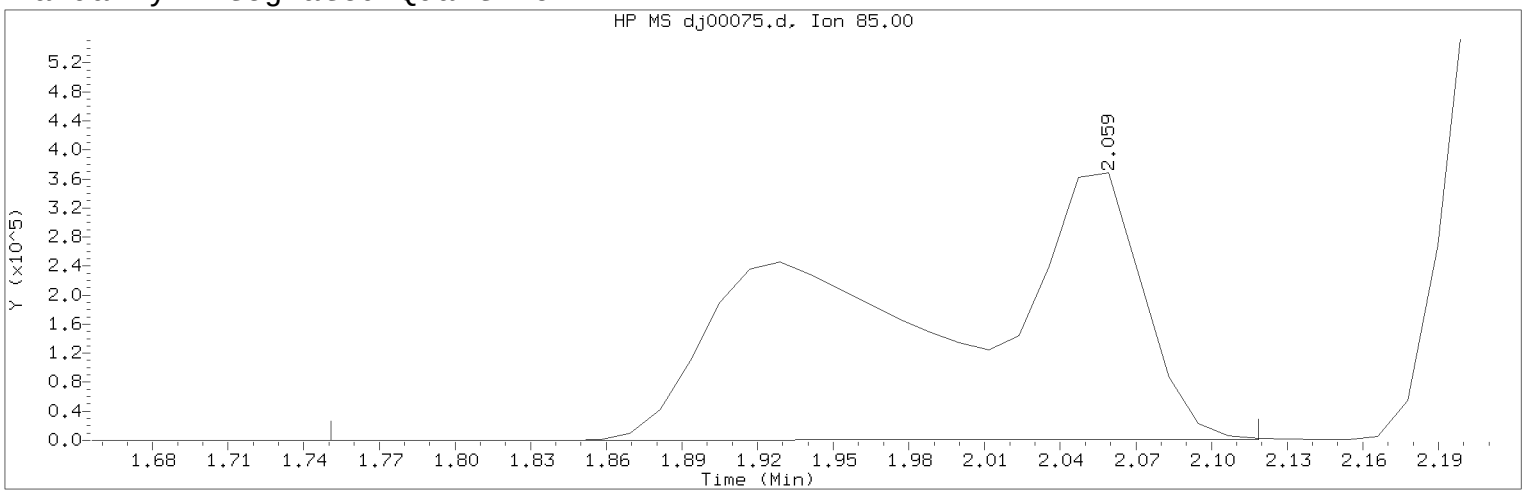
Compound Number : 1
Compound Name : Propene
Scan Number : 80
Retention Time (minutes): 2.024
Quant Ion : 41.00
Area : 9932
Concentration (ppb(v)) : 0.3454
Integration start scan : 75 Integration stop scan: 91
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17.
Target 3.5 esignature user SDX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

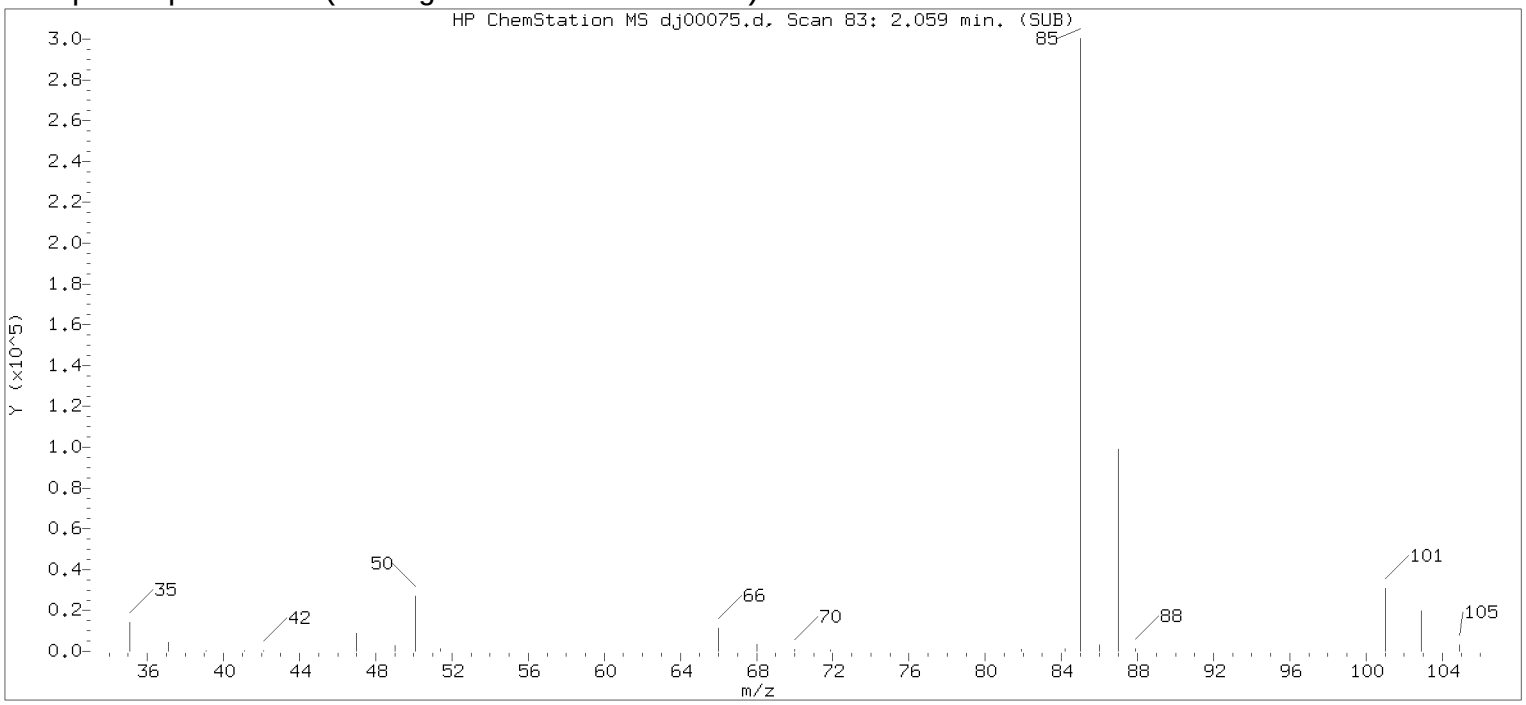
Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 83
Retention Time (minutes): 2.059
Quant Ion : 85.00
Area (flag) : 2479945MA
Concentration (ppb(v)) : 12.0869
Integration start scan : 56 Integration stop scan: 87
Y at integration start : 0 Y at integration end: 697

Reason for manual integration: improper integration

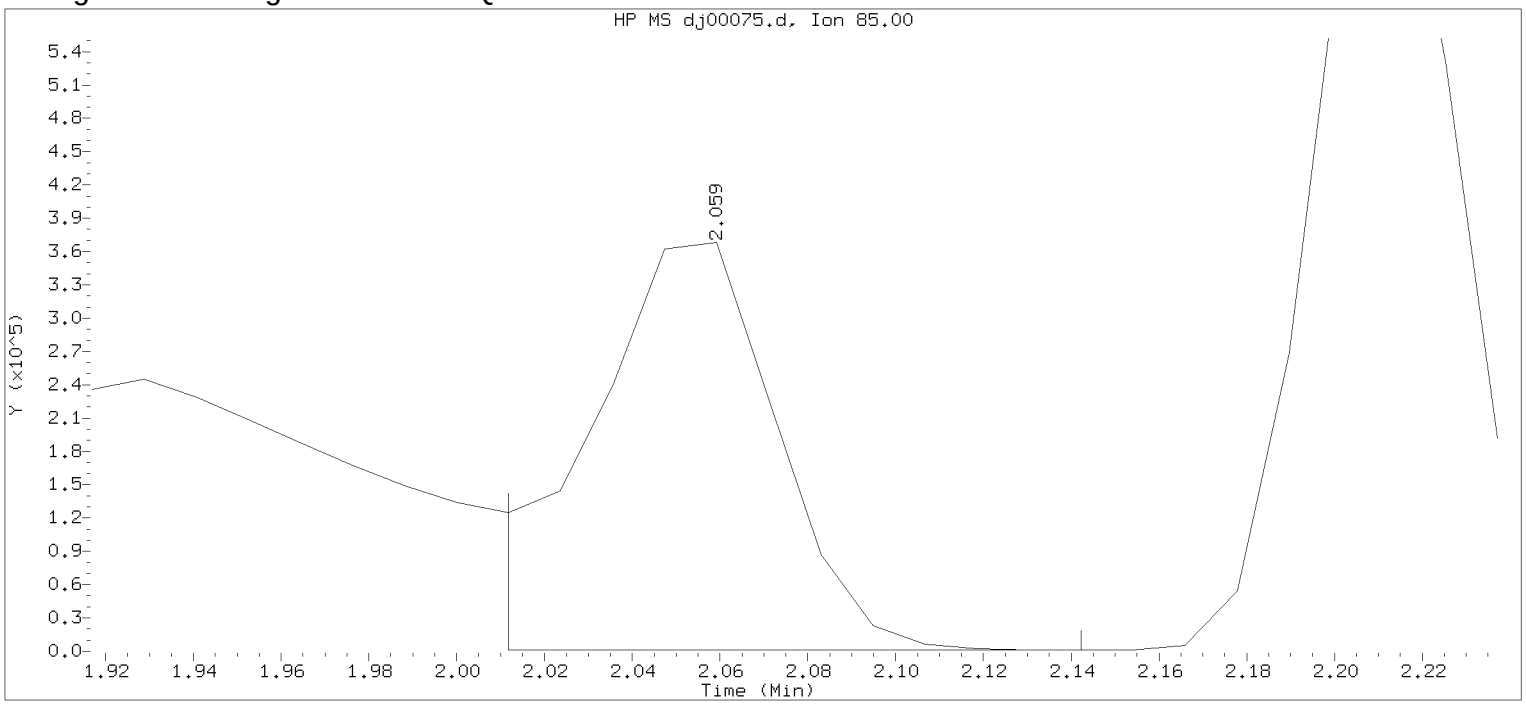
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

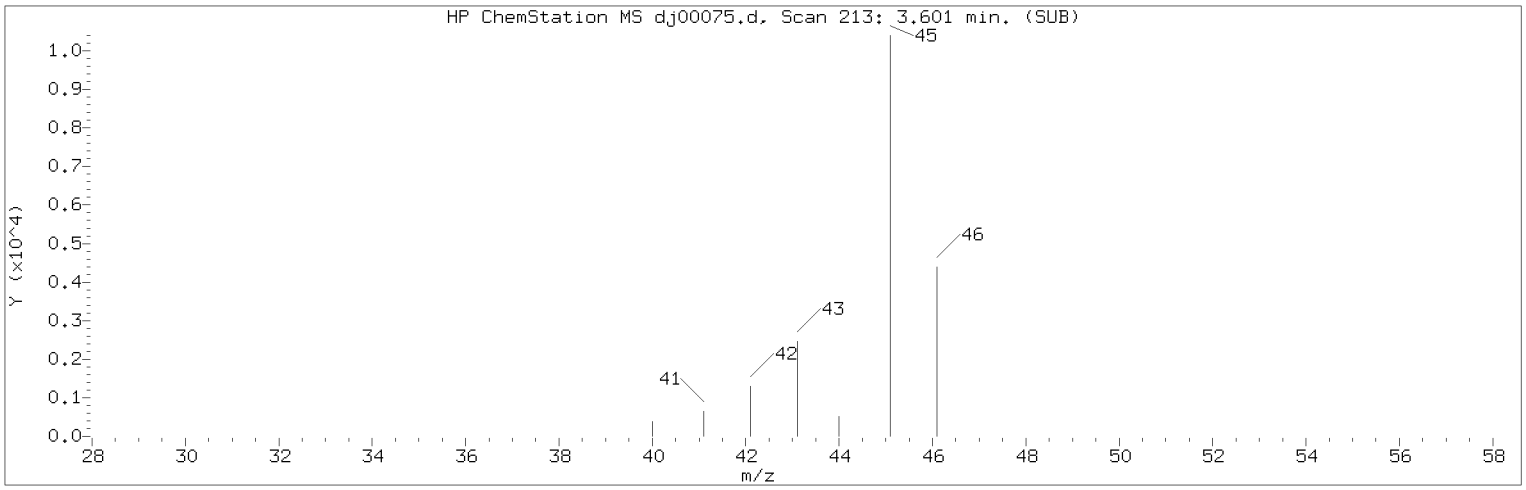
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:43 Automation

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

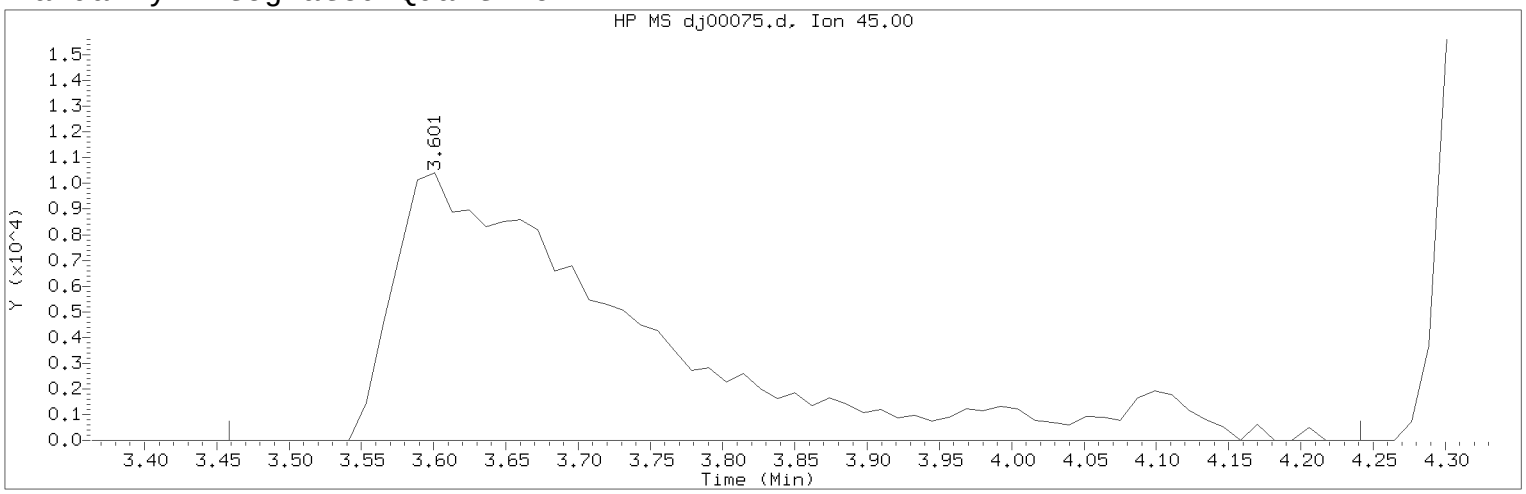
Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 83
Retention Time (minutes): 2.059
Quant Ion : 85.00
Area : 1077359
Concentration (ppb(v)) : 5.2509
Integration start scan : 78 Integration stop scan: 89
Y at integration start : 1045 Y at integration end: 1045

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17.
Target 3.5 esignature user SDX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

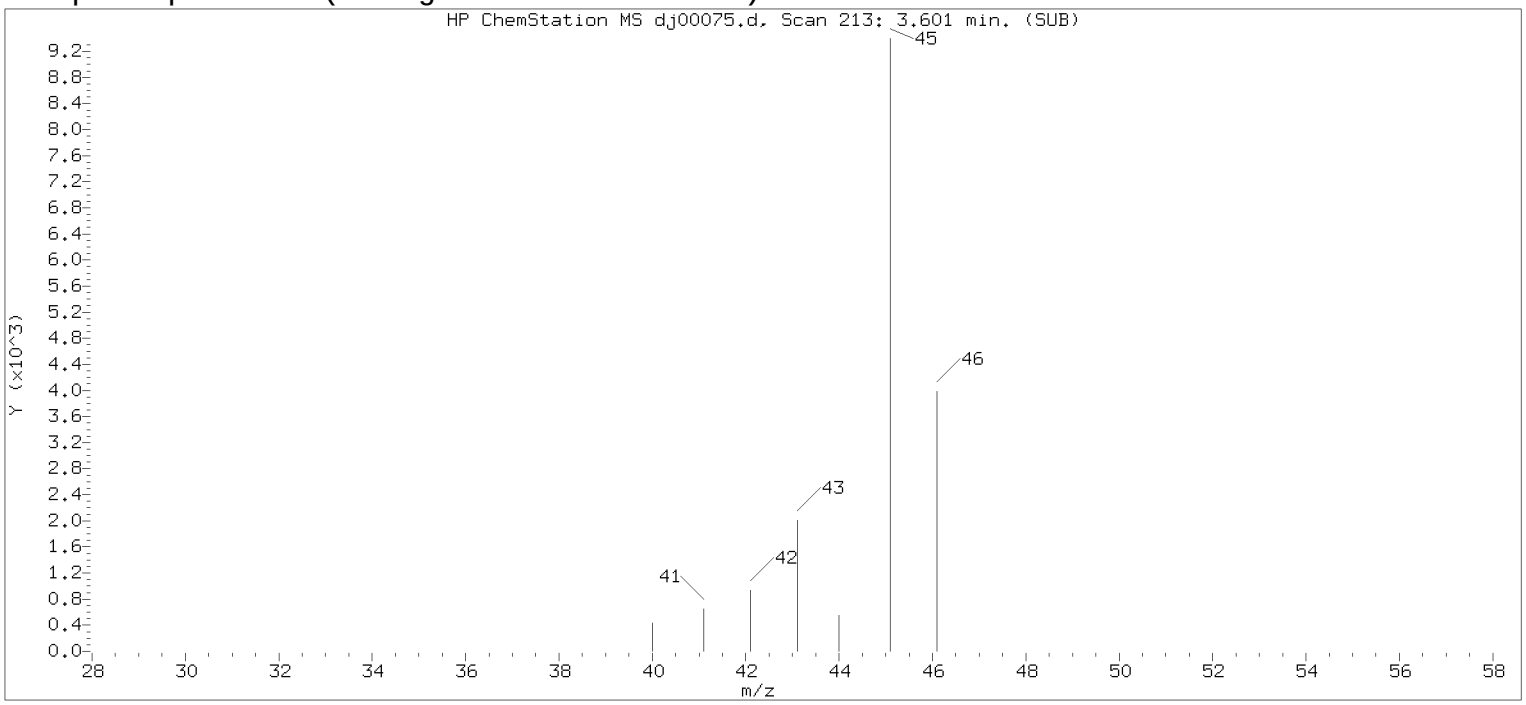
Compound Number : 14
Compound Name : Ethanol
Scan Number : 213
Retention Time (minutes): 3.601
Quant Ion : 45.00
Area (flag) : 122014M
Concentration (ppb(v)) : 6.5702
Integration start scan : 200 Integration stop scan: 266
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

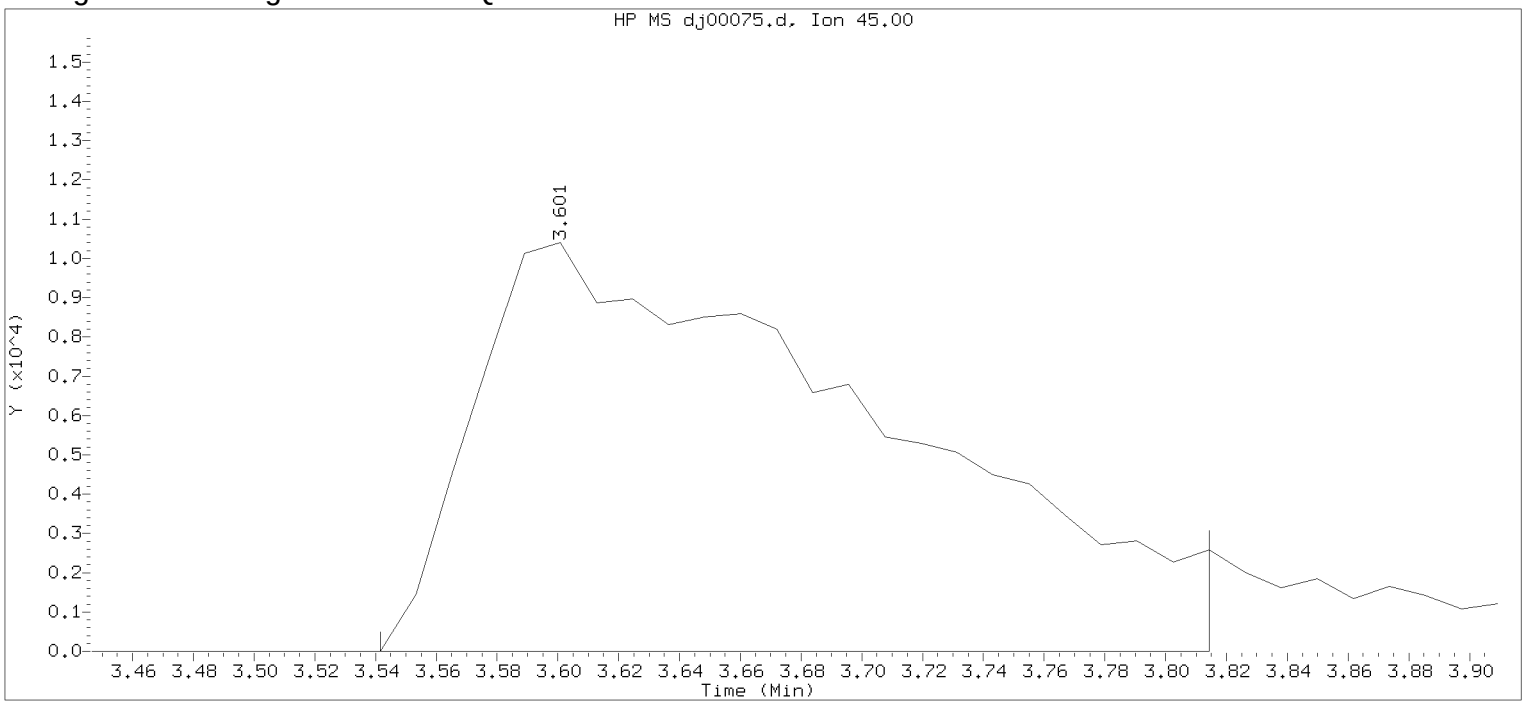
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

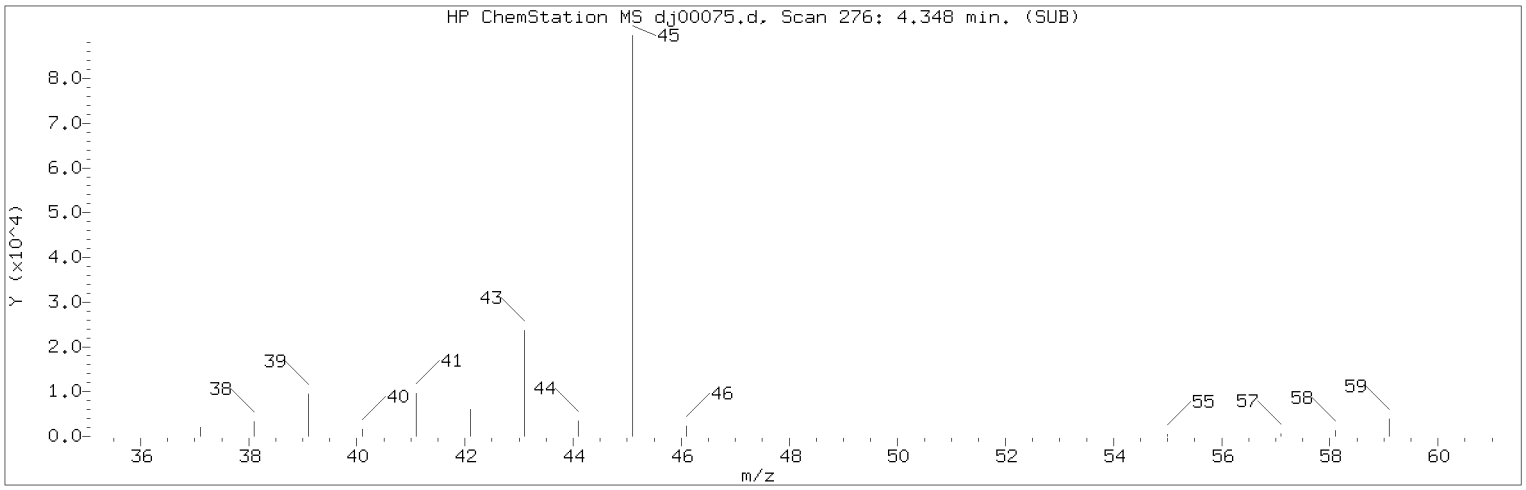
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:43 Automation

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

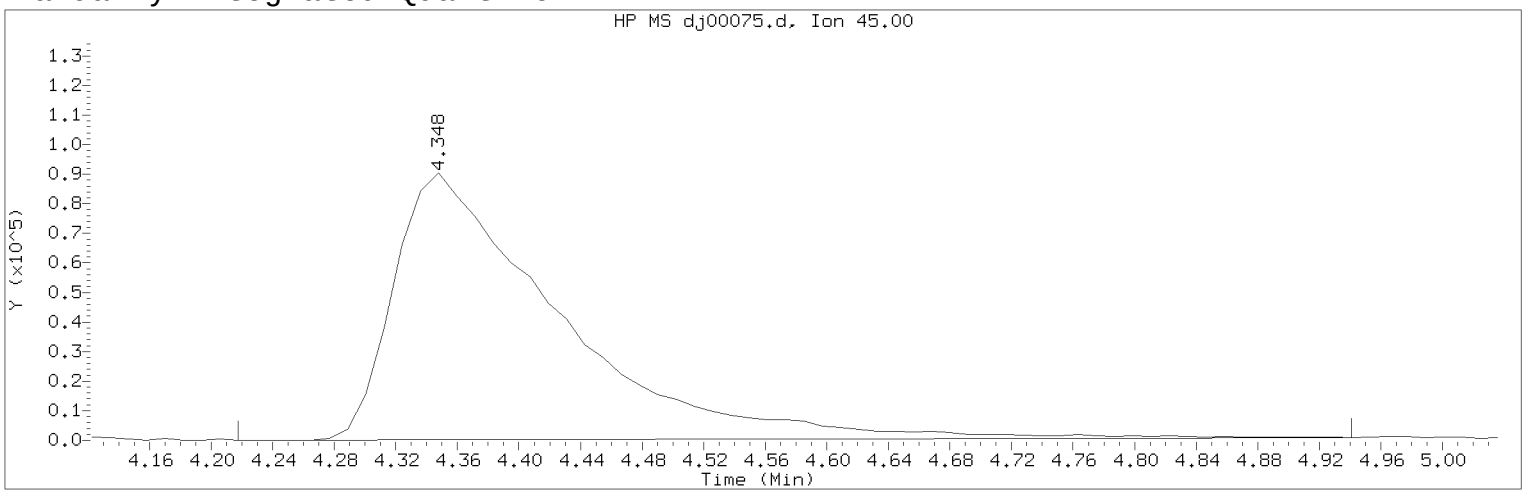
Compound Number : 14
Compound Name : Ethanol
Scan Number : 213
Retention Time (minutes): 3.601
Quant Ion : 45.00
Area : 96716
Concentration (ppb(v)) : 5.2079
Integration start scan : 207 Integration stop scan: 230
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17.
Target 3.5 esignature user SSX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

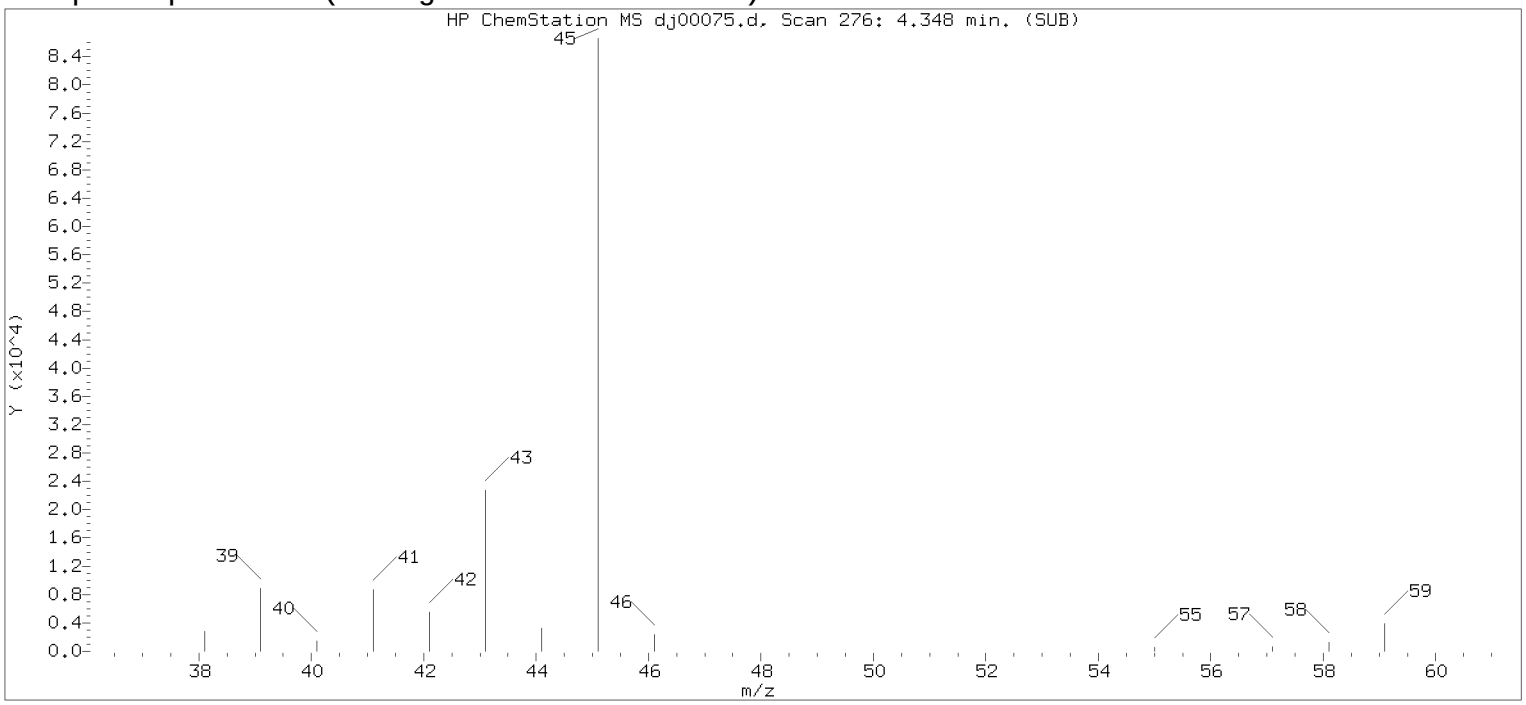
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 276
Retention Time (minutes): 4.348
Quant Ion : 45.00
Area (flag) : 671008M
Concentration (ppb(v)) : 9.0522
Integration start scan : 264 Integration stop scan: 325
Y at integration start : 0 Y at integration end: 947

Reason for manual integration: improper integration

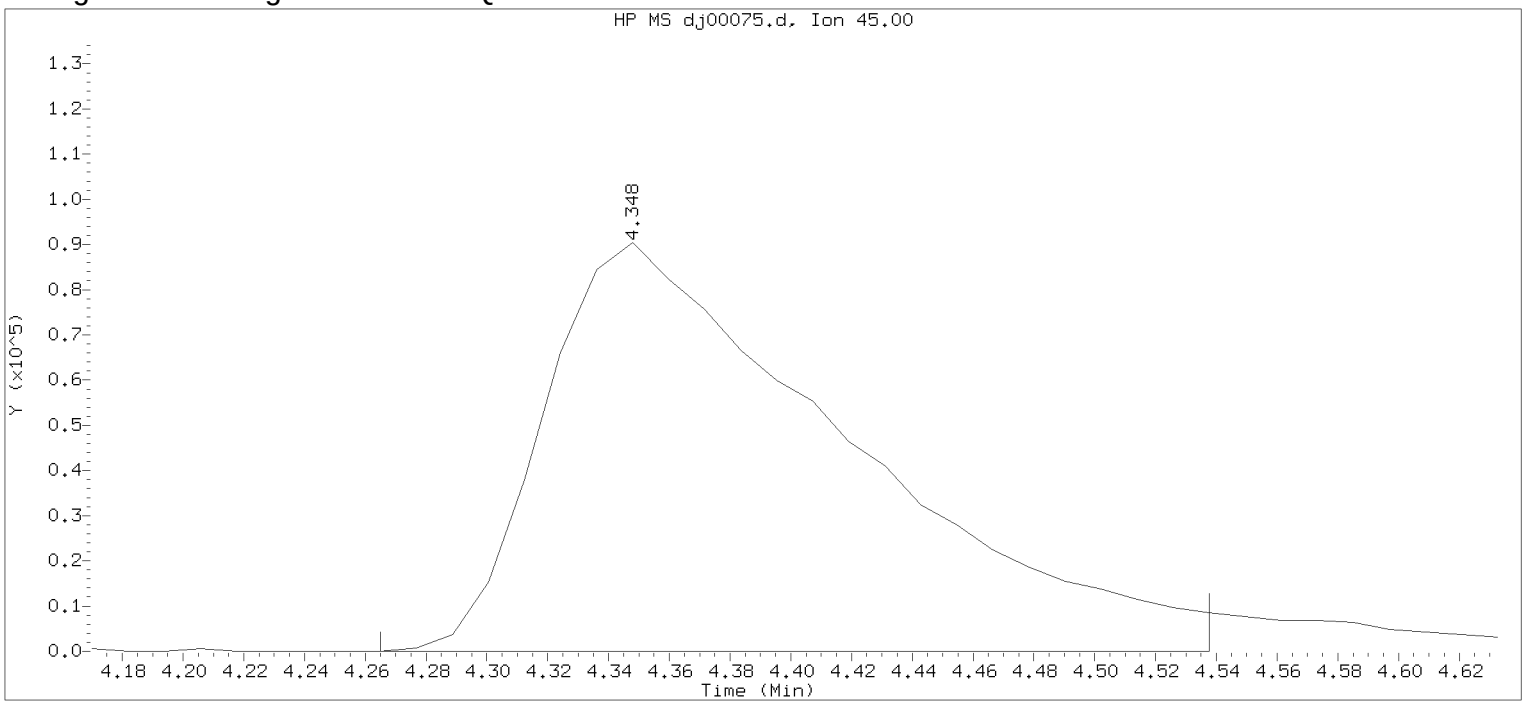
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

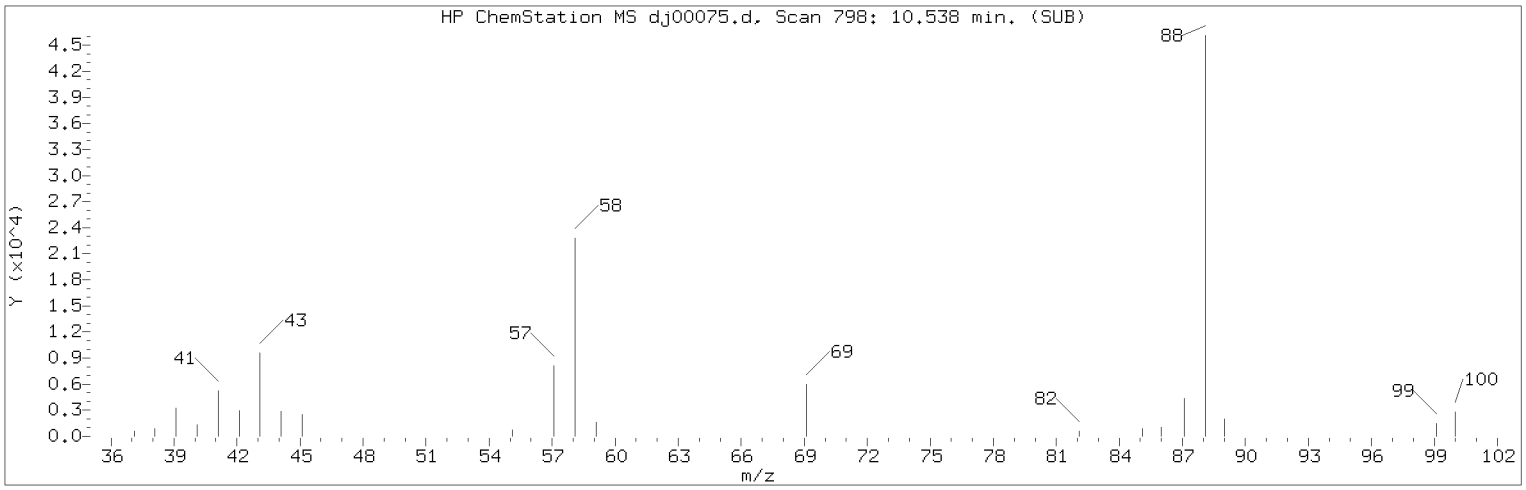
Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:43 Automation

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

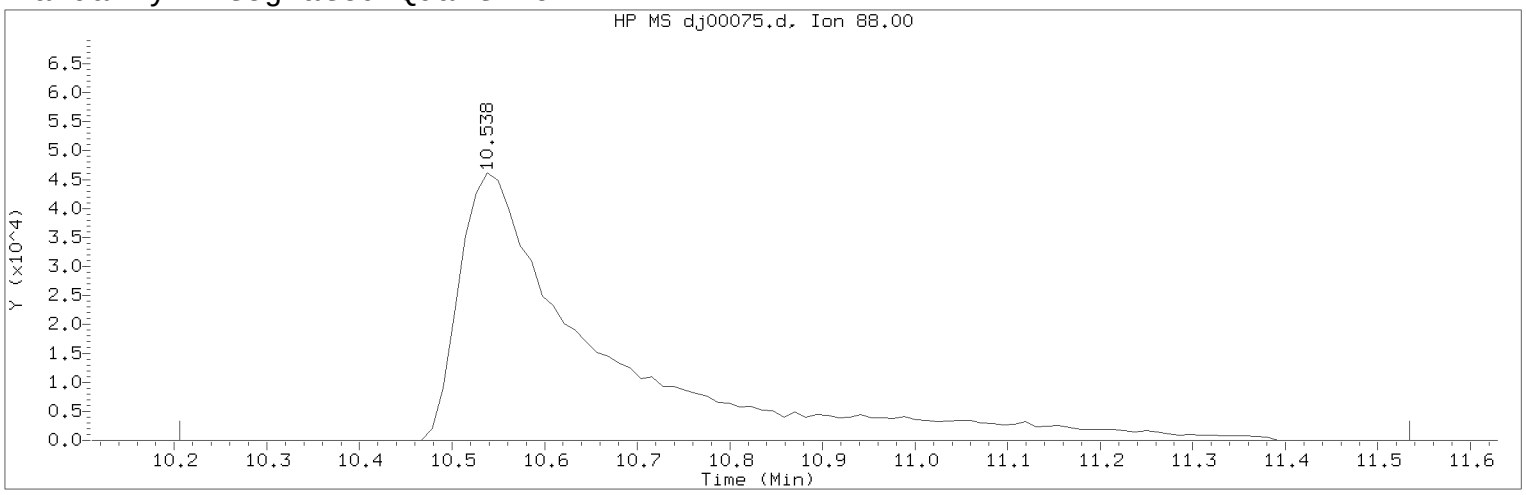
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 276
Retention Time (minutes): 4.348
Quant Ion : 45.00
Area : 627720
Concentration (ppb(v)) : 8.4682
Integration start scan : 268 Integration stop scan: 291
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17.
Target 3.5 esignature user SDX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 06-Oct-2015 14:17 jeb07445

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

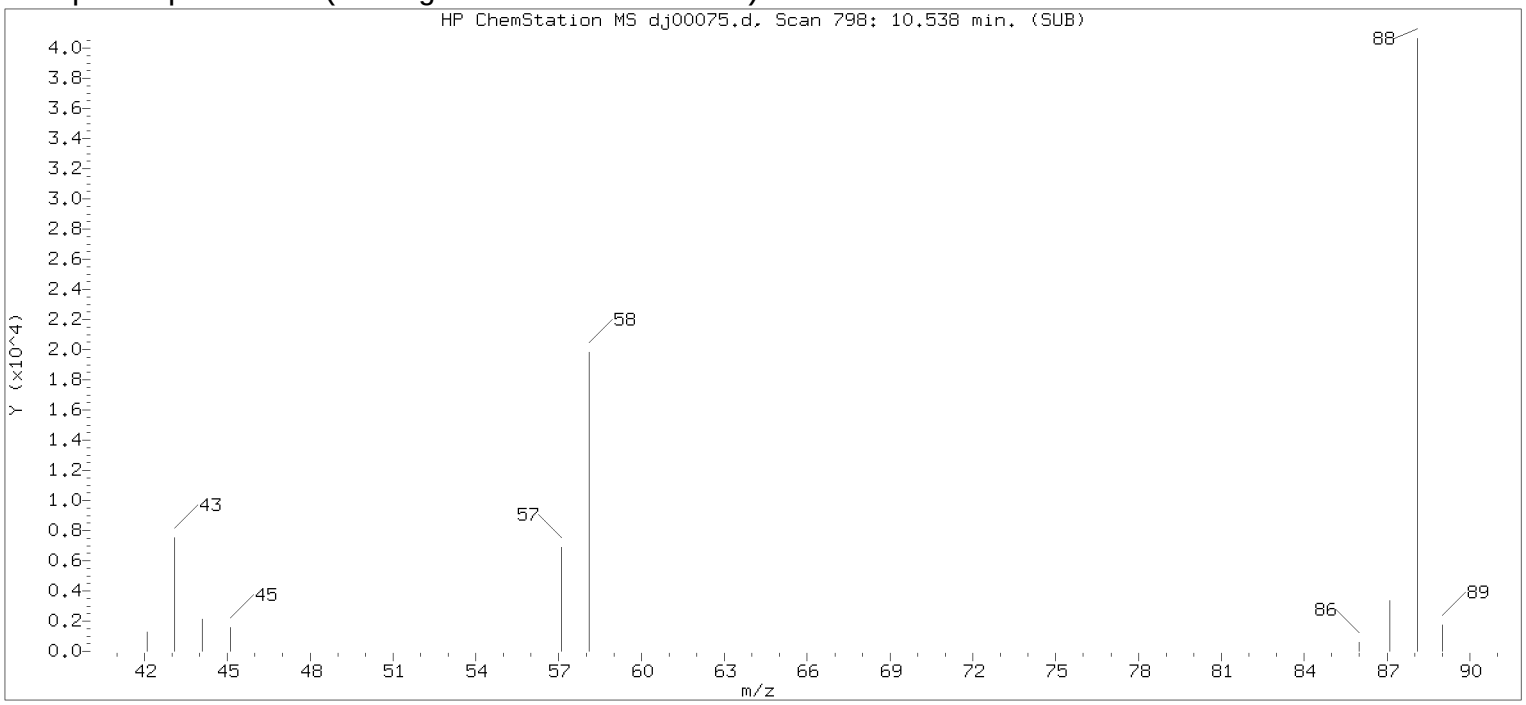
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 798
Retention Time (minutes): 10.538
Quant Ion : 88.00
Area (flag) : 484626M
Concentration (ppb(v)) : 10.3783
Integration start scan : 769 Integration stop scan: 881
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

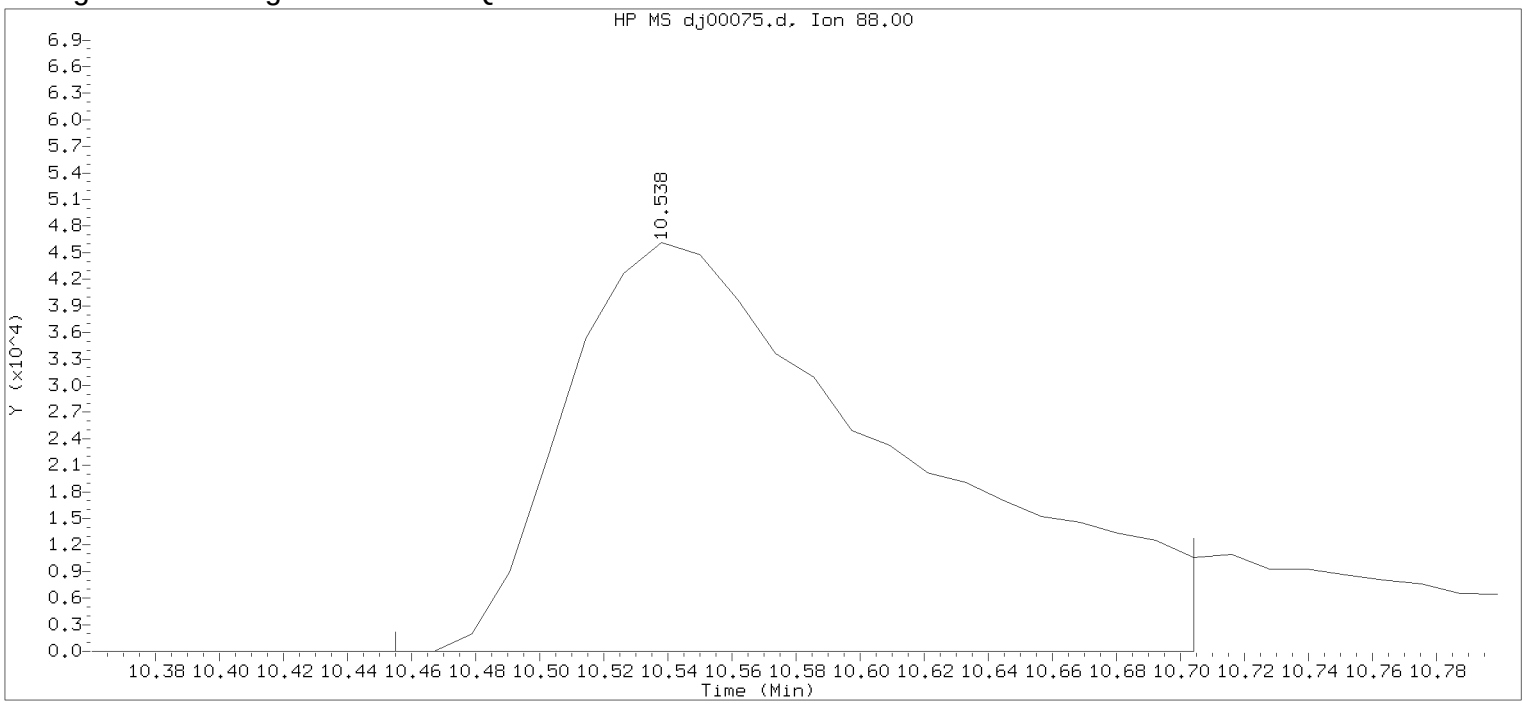
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 14:17.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:57.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00075.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 16:02 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 16:43 Automation

Sample Name: LCSDD88 Lab Sample ID: LCSDD88

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 798
Retention Time (minutes): 10.538
Quant Ion : 88.00
Area : 335447
Concentration (ppb(v)) : 7.1837
Integration start scan : 790 Integration stop scan: 811
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/06/2015 at 14:17.
Target 3.5 esignature user SDX07jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct07.b/dj00139.d Injection date and time: **07-OCT-2015 20:58**
Data file Sample Info. Line: LCSD90;250;D1528030AA;LCSD90;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.289(-0.024)	524	130	532579 (-21)	10.00		402252 - 938586
51) 1,4-Difluorobenzene	9.210(-0.012)	686	114	1952540 (-21)	10.00		1474106 - 3439580
71) Chlorobenzene-d5	15.436(-0.012)	1211	117	1870484 (-19)	10.00		1383036 - 3227082

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	2.047(-0.003)	41	139982	6.535	6.54			0.5	1
2) Dichlorodifluoromethane	(1)	2.083(-0.000)	85	1870297	12.237	12.24			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.225(-0.000)	85	1320811	10.720	10.72			0.2	1
5) Chloromethane	(1)	2.273(-0.000)	52	60236	6.228	6.23			0.5	2
6) Vinyl Chloride	(1)	2.403(-0.002)	62	323484	8.607	8.61			0.2	1
7) 1,3-Butadiene	(1)	2.451(-0.002)	54	189225	7.633	7.63			0.4	2
8) Bromomethane	(1)	2.759(-0.000)	94	448111	9.386	9.39			0.2	1
9) Chloroethane	(1)	2.878(-0.000)	64	181495	8.622	8.62			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.186(-0.000)	101	2144686	13.505	13.51			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.648(-0.013)	45	69211M	5.003	5.00			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.767(-0.003)	56	75930	7.292	7.29			0.5	2
17) 1,1-Dichloroethene	(1)	3.850(-0.001)	61	750382	11.659	11.66			0.2	1
18) Freon 113	(1)	3.886(-0.001)	103	767096	10.902	10.90			0.5	2
19) Acetone	(1)	4.016(-0.004)	43	481319	10.213	10.21			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.111(0.000)	76	1214334	10.281	10.28			0.5	1
22) Isopropanol	(1)	4.407(-0.014)	45	437827M	7.929	7.93			0.5	1
23) Acetonitrile	(1)	4.419(-0.004)	40	10013	0.758	0.76		J	0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.585(0.000)	84	386975	11.263	11.26			0.5	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)	5.059(-0.001)	61	591733	10.986	10.99			0.2	1
29) Methyl t-Butyl Ether	(1)	5.154(-0.004)	73	1310643	10.240	10.24			0.2	1
30) Hexane	(1)	5.581(0.000)	57	465482	8.134	8.13			0.2	1
31) 1,1-Dichloroethane	(1)	5.806(-0.000)	63	744543	10.068	10.07			0.2	1
32) Vinyl Acetate	(1)	6.008(-0.000)	86	92007	8.467	8.47			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.862(0.001)	61	541923	10.161	10.16			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1133656	21.147	21.15			0.2	1
37) 2-Butanone	(1)	7.004(-0.001)	72	185461	9.437	9.44			0.5	2
38) Ethyl Acetate	(1)	7.158(-0.000)	70	96308	7.496	7.50			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.467(-0.003)	42	233283	7.617	7.62			0.5	1
42) Chloroform	(1)	7.479(0.001)	83	1232876	11.414	11.41			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.740(0.001)	97	1706418	12.788	12.79			0.2	1
44) Cyclohexane	(1)	7.822(0.001)	56	494170	8.203	8.20			0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct07.b/dj00139.d Injection date and time: **07-OCT-2015 20:58**
Data file Sample Info. Line: LCSD90;250;D1528030AA;LCSD90;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.036(0.001)	117	1956573	14.022	14.02			0.2	1
46) Benzene	(2)	8.427(-0.001)	78	1281098	9.737	9.74			0.2	1
47) 1,2-Dichloroethane	(2)	8.475(-0.000)	62	838784	13.121	13.12			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.032(-0.001)	43	421174	8.052	8.05			0.2	1
52) Trichloroethene	(2)	9.660(-0.001)	130	658220	9.297	9.30			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.076(0.000)	63	344392	8.926	8.93			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.574(-0.004)	88	276309M	8.508	8.51			0.5	1
57) Methyl Methacrylate	(2)	10.491(-0.001)	69	396647	9.436	9.44			0.5	1
58) Bromodichloromethane	(2)	10.668(0.000)	83	1295113	11.840	11.84			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.617(0.000)	75	753156	11.139	11.14			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.080(-0.002)	43	598375	8.523	8.52			0.5	2
61) Toluene	(3)	12.293(-0.000)	91	1678690	9.048	9.05			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.862(-0.000)	75	739974	10.062	10.06			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	1493130	21.201	21.20			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.242(-0.000)	97	582203	9.251	9.25			0.2	1
67) Tetrachloroethene	(3)	13.479(0.000)	166	1099658	8.408	8.41			0.2	1
68) 2-Hexanone	(3)	13.989(-0.001)	43	566340	8.573	8.57			0.5	1
69) Dibromochloromethane	(3)	14.084(0.000)	127	1032438	10.372	10.37			0.2	1
70) 1,2-Dibromoethane	(3)	14.285(-0.000)	107	974931	9.623	9.62			0.2	1
72) Chlorobenzene	(3)	15.507(0.000)	112	1364227	8.820	8.82			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.851(0.000)	91	2347140	9.544	9.54			0.2	1
75) m/p-Xylene	(3)	16.159(0.000)	91	4045699	18.582	18.58			0.2	1
76) o-Xylene	(3)	17.131(0.000)	91	2085230	10.111	10.11			0.2	1
77) Xylene (total)	(3)		91	6130929	28.694	28.69			0.2	1
78) Styrene	(3)	17.179(0.000)	104	1418007	9.065	9.06			0.2	1
79) Bromoform	(3)	17.558(0.000)	173	1453505	10.717	10.72			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	18.970(0.000)	83	1170245	9.491	9.49			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.2	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.527(0.000)	105	2729375	9.244	9.24			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.728(0.000)	105	2587059	9.667	9.67			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.701(0.000)	105	2421513	9.485	9.48			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.353(0.001)	146	1433243	9.383	9.38			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.650(0.000)	146	1380509	9.251	9.25			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.159(0.000)	91	1711334	10.178	10.18			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.824(0.000)	146	1335492	9.165	9.16			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	25.907(0.001)	180	983809	9.120	9.12			0.5	2

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP10145.i/15oct07.b/dj00139.d Injection date and time: **07-OCT-2015 20:58**
Data file Sample Info. Line: LCSD90;250;D1528030AA;LCSD90;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

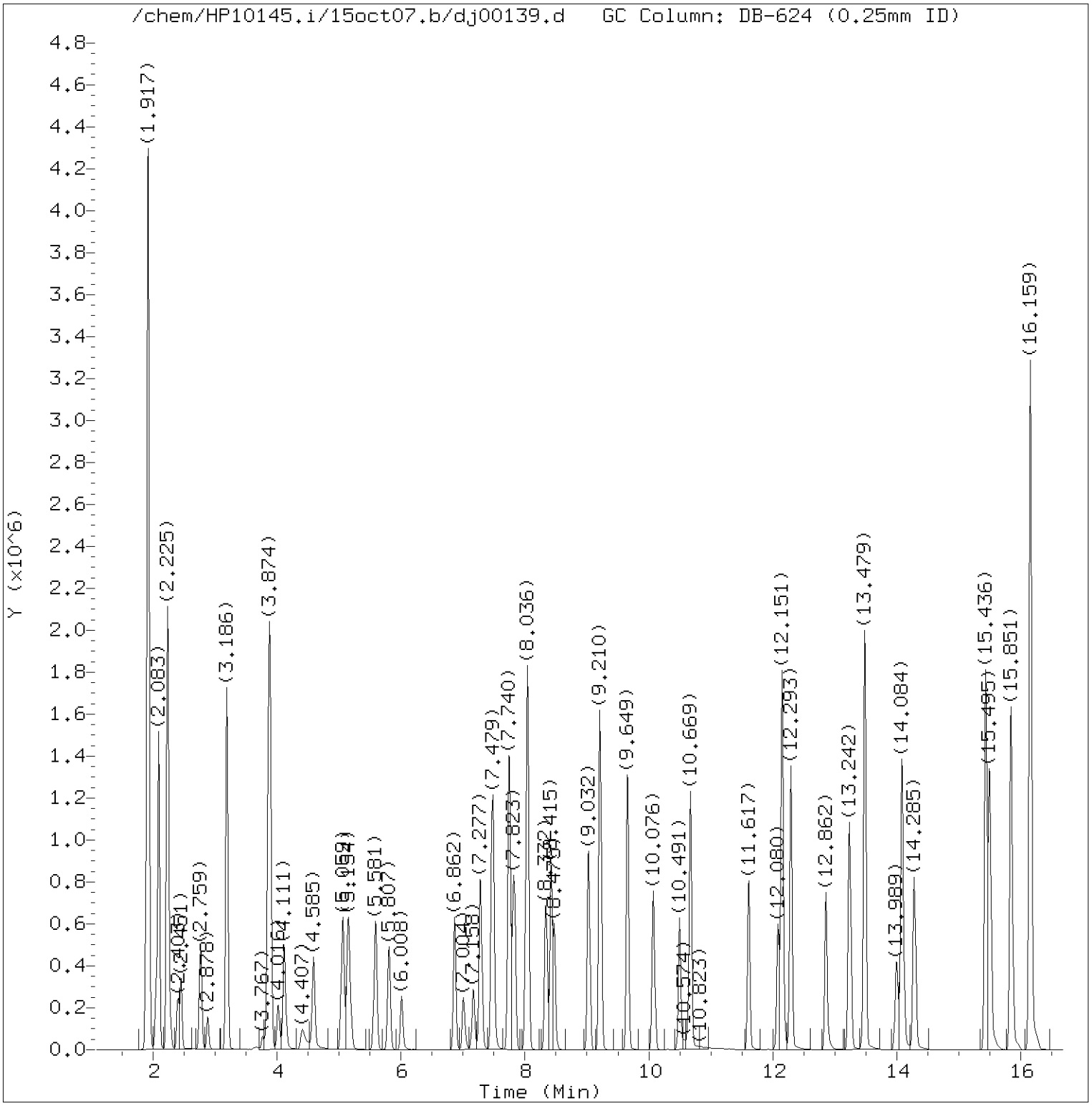
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.179(0.001)	225	1923383	11.193	11.19			0.4	2
102) Naphthalene	(3)	26.215(0.000)	128	1700323	9.497	9.50			0.5	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

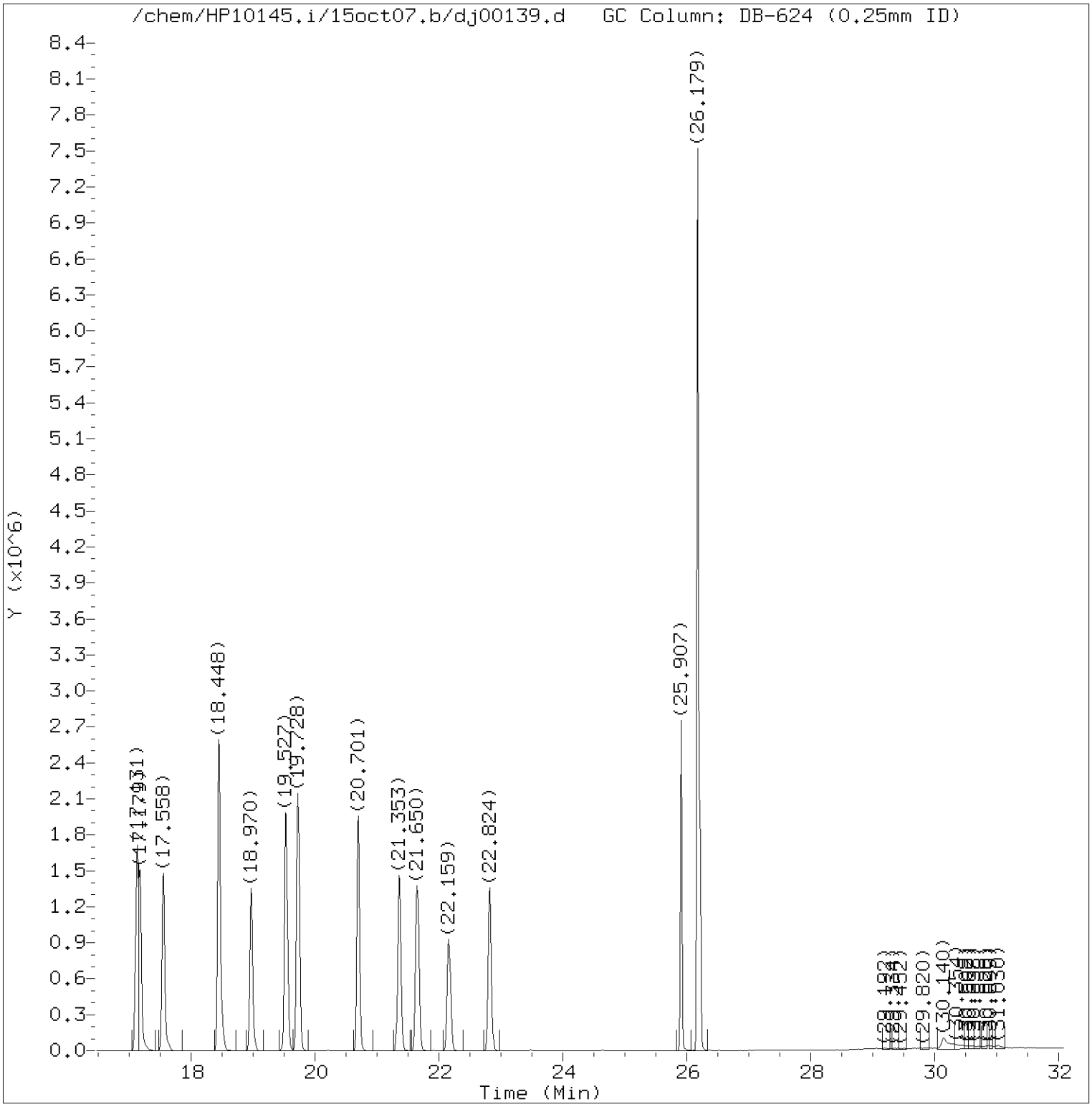
Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	139982	6.535
2) Dichlorodifluoromethane	(1)	2.083	85	1870297	12.237
4) Freon 114	(1)	2.225	85	1320811	10.720
5) Chloromethane	(1)	2.273	52	60236	6.228
6) Vinyl Chloride	(1)	2.403	62	323484	8.607
7) 1,3-Butadiene	(1)	2.451	54	189225	7.633
8) Bromomethane	(1)	2.759	94	448111	9.386
9) Chloroethane	(1)	2.878	64	181495	8.622
12) Trichlorofluoromethane	(1)	3.186	101	2144686	13.505
14) Ethanol	(1)	3.648	45	69211M	5.003
16) Acrolein	(1)	3.767	56	75930	7.292
17) 1,1-Dichloroethene	(1)	3.850	61	750382	11.659
18) Freon 113	(1)	3.886	103	767096	10.902
19) Acetone	(1)	4.016	43	481319	10.213
21) Carbon Disulfide	(1)	4.111	76	1214334	10.281
22) Isopropanol	(1)	4.407	45	437827M	7.929
23) Acetonitrile	(1)	4.419	40	10013	0.758
25) Methylene Chloride	(1)	4.585	84	386975	11.263
28) trans-1,2-Dichloroethene	(1)	5.059	61	591733	10.986
29) Methyl t-Butyl Ether	(1)	5.154	73	1310643	10.240
30) Hexane	(1)	5.581	57	465482	8.134
31) 1,1-Dichloroethane	(1)	5.807	63	744543	10.068
32) Vinyl Acetate	(1)	6.008	86	92007	8.467
36) 1,2-Dichloroethene (total)	(1)		61	1133656	21.147
35) cis-1,2-Dichloroethene	(1)	6.862	61	541923	10.161
37) 2-Butanone	(1)	7.004	72	185461	9.437
38) Ethyl Acetate	(1)	7.158	70	96308	7.496
40)*Bromochloromethane	(1)	7.289	130	532579	10.000
41) Tetrahydrofuran	(1)	7.467	42	233283	7.617
42) Chloroform	(1)	7.479	83	1232876	11.414
43) 1,1,1-Trichloroethane	(1)	7.740	97	1706418	12.788
44) Cyclohexane	(1)	7.823	56	494170	8.203
45) Carbon Tetrachloride	(1)	8.036	117	1956573	14.022
46) Benzene	(2)	8.427	78	1281098	9.737
47) 1,2-Dichloroethane	(2)	8.475	62	838784	13.121
50) Heptane	(2)	9.032	43	421174	8.052
51)*1,4-Difluorobenzene	(2)	9.210	114	1952540	10.000
52) Trichloroethene	(2)	9.661	130	658220	9.297

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

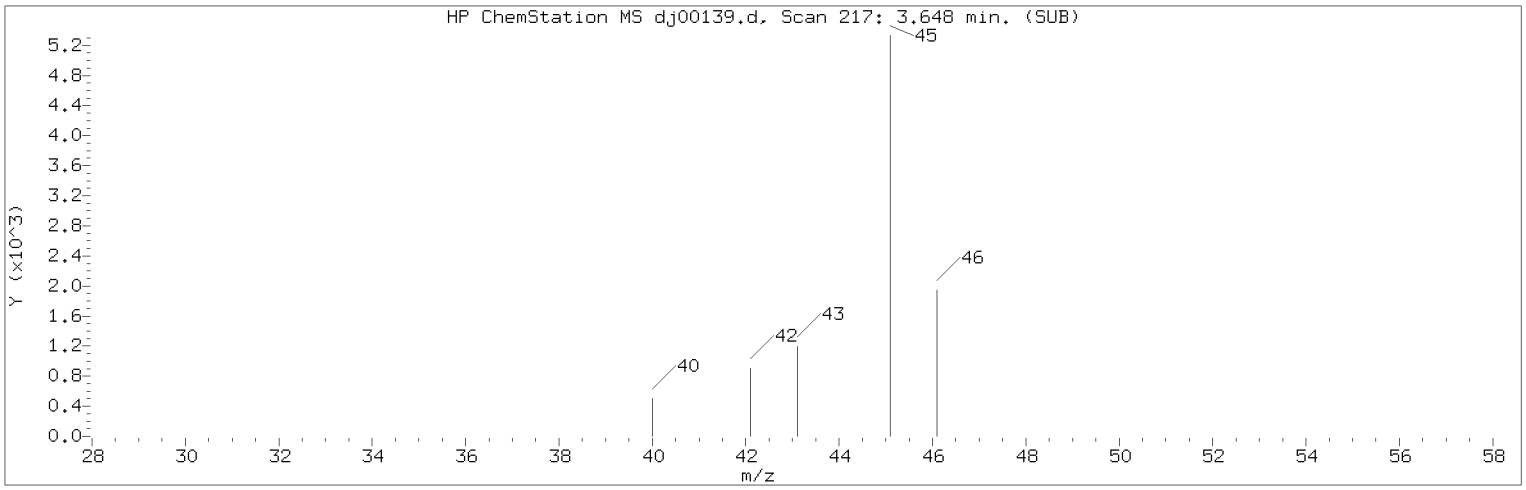
Sample Name: LCSD90 Lab Sample ID: LCSD90

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
54) 1,2-Dichloropropane	(2)	10.076	63	344392	8.926
57) Methyl Methacrylate	(2)	10.491	69	396647	9.436
56) 1,4-Dioxane	(2)	10.574	88	276309M	8.508
58) Bromodichloromethane	(2)	10.669	83	1295113	11.840
59) cis-1,3-Dichloropropene	(2)	11.617	75	753156	11.139
60) 4-Methyl-2-Pentanone	(2)	12.080	43	598375	8.523
61) Toluene	(3)	12.293	91	1678690	9.048
63) trans-1,3-Dichloropropene	(3)	12.862	75	739974	10.062
64) 1,3-Dichloropropene (total)	(3)		75	1493130	21.201
66) 1,1,2-Trichloroethane	(3)	13.242	97	582203	9.251
67) Tetrachloroethene	(3)	13.479	166	1099658	8.408
68) 2-Hexanone	(3)	13.989	43	566340	8.573
69) Dibromochloromethane	(3)	14.084	127	1032438	10.372
70) 1,2-Dibromoethane	(3)	14.285	107	974931	9.623
71)*Chlorobenzene-d5	(3)	15.436	117	1870484	10.000
72) Chlorobenzene	(3)	15.507	112	1364227	8.820
74) Ethylbenzene	(3)	15.851	91	2347140	9.544
75) m/p-Xylene	(3)	16.159	91	4045699	18.582
76) o-Xylene	(3)	17.131	91	2085230	10.111
78) Styrene	(3)	17.179	104	1418007	9.065
77) Xylene (total)	(3)		91	6130929	28.694
79) Bromoform	(3)	17.558	173	1453505	10.717
82) 1,1,2,2-Tetrachloroethane	(3)	18.970	83	1170245	9.491
86) 4-Ethyltoluene	(3)	19.527	105	2729375	9.244
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	2587059	9.667
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	2421513	9.485
92) 1,3-Dichlorobenzene	(3)	21.353	146	1433243	9.383
93) 1,4-Dichlorobenzene	(3)	21.650	146	1380509	9.251
95) Benzyl Chloride	(3)	22.159	91	1711334	10.178
96) 1,2-Dichlorobenzene	(3)	22.824	146	1335492	9.165
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	983809	9.120
101) Hexachlorobutadiene	(3)	26.179	225	1923383	11.193
102) Naphthalene	(3)	26.215	128	1700323	9.497

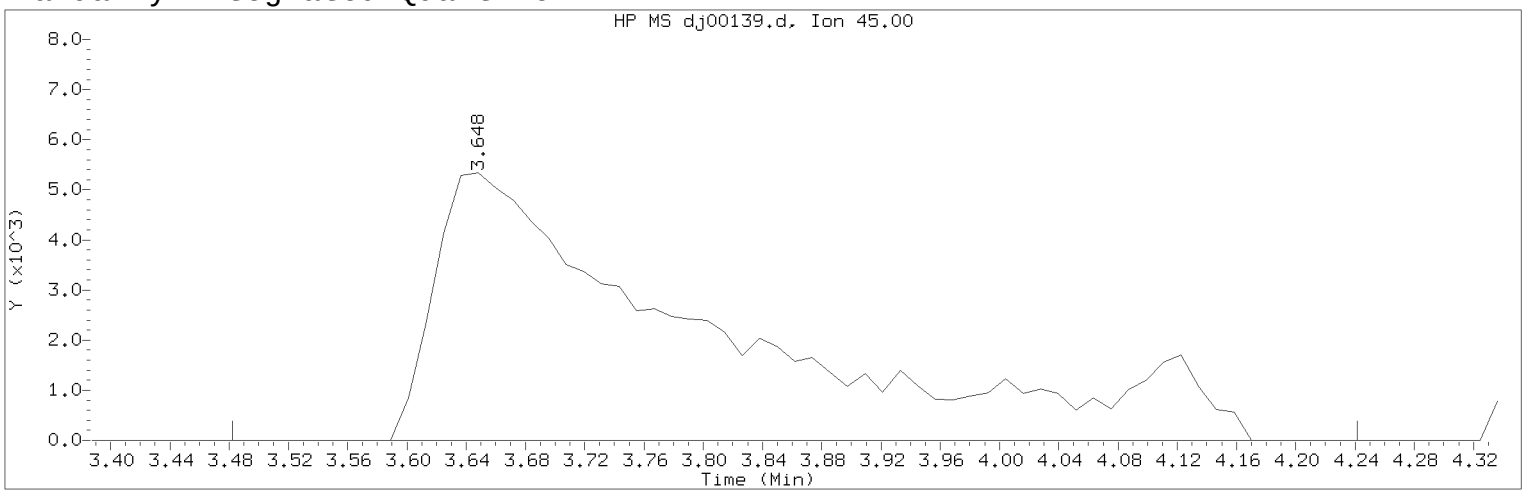
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

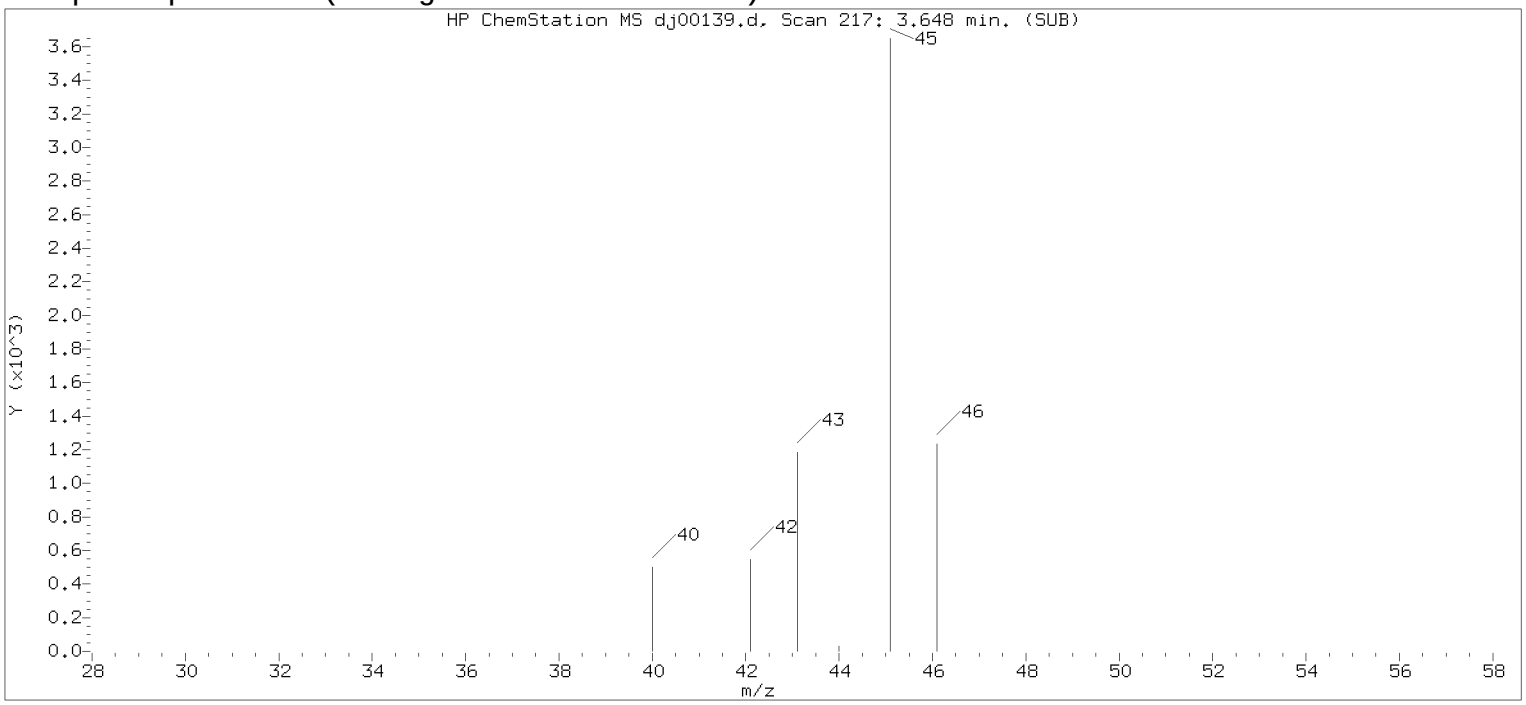
Compound Number : 14
Compound Name : Ethanol
Scan Number : 217
Retention Time (minutes): 3.648
Quant Ion : 45.00
Area (flag) : 69211M
Concentration (ppb(v)) : 5.0032
Integration start scan : 202 Integration stop scan: 266
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

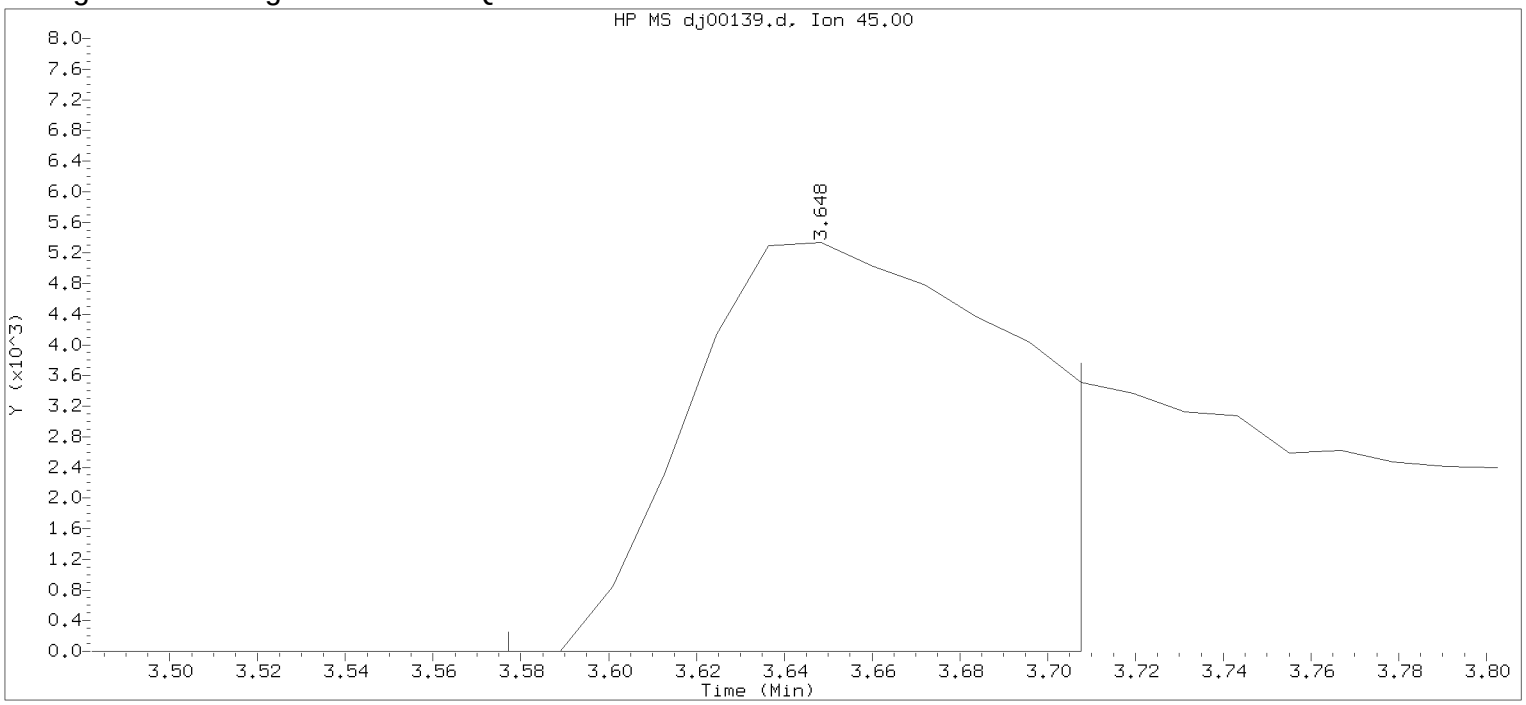
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

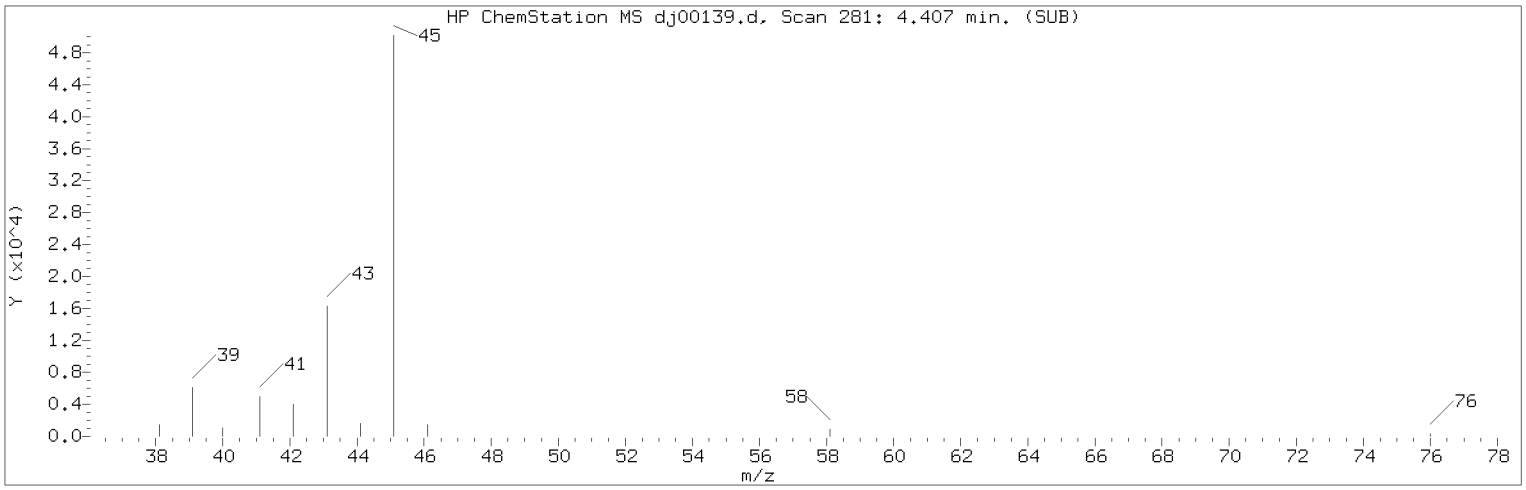
Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:40 Automation

Sample Name: LCSD90 Lab Sample ID: LCSD90

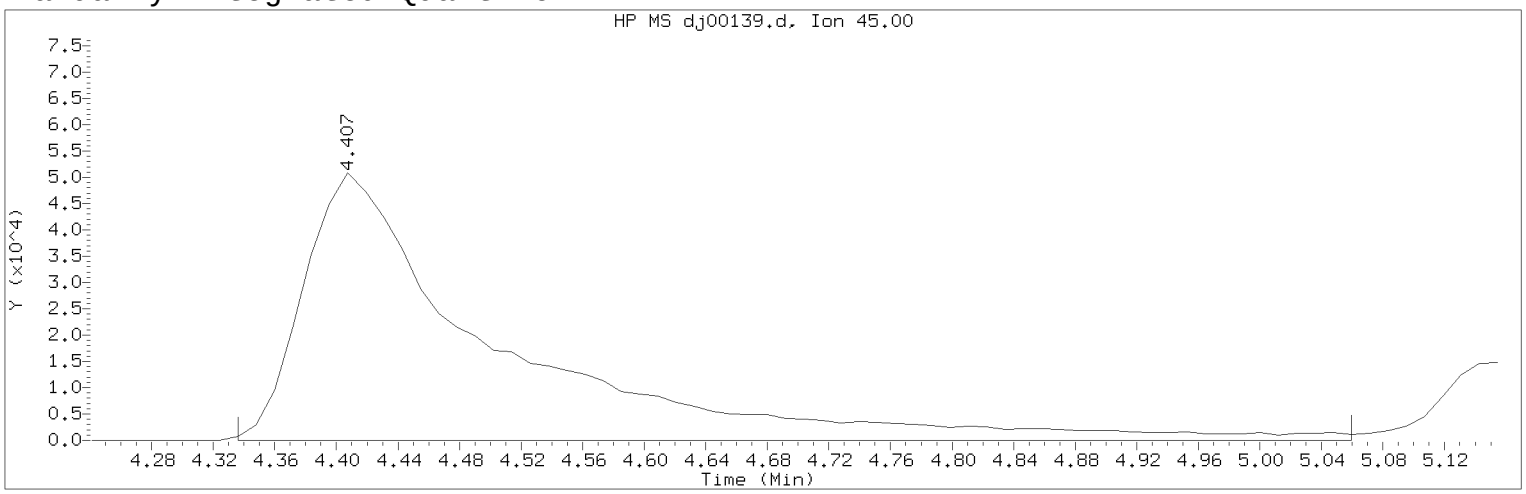
Compound Number : 14
Compound Name : Ethanol
Scan Number : 217
Retention Time (minutes): 3.648
Quant Ion : 45.00
Area : 26967
Concentration (ppb(v)) : 1.9494
Integration start scan : 210 Integration stop scan: 221
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25.
Target 3.5 esignature user SSX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

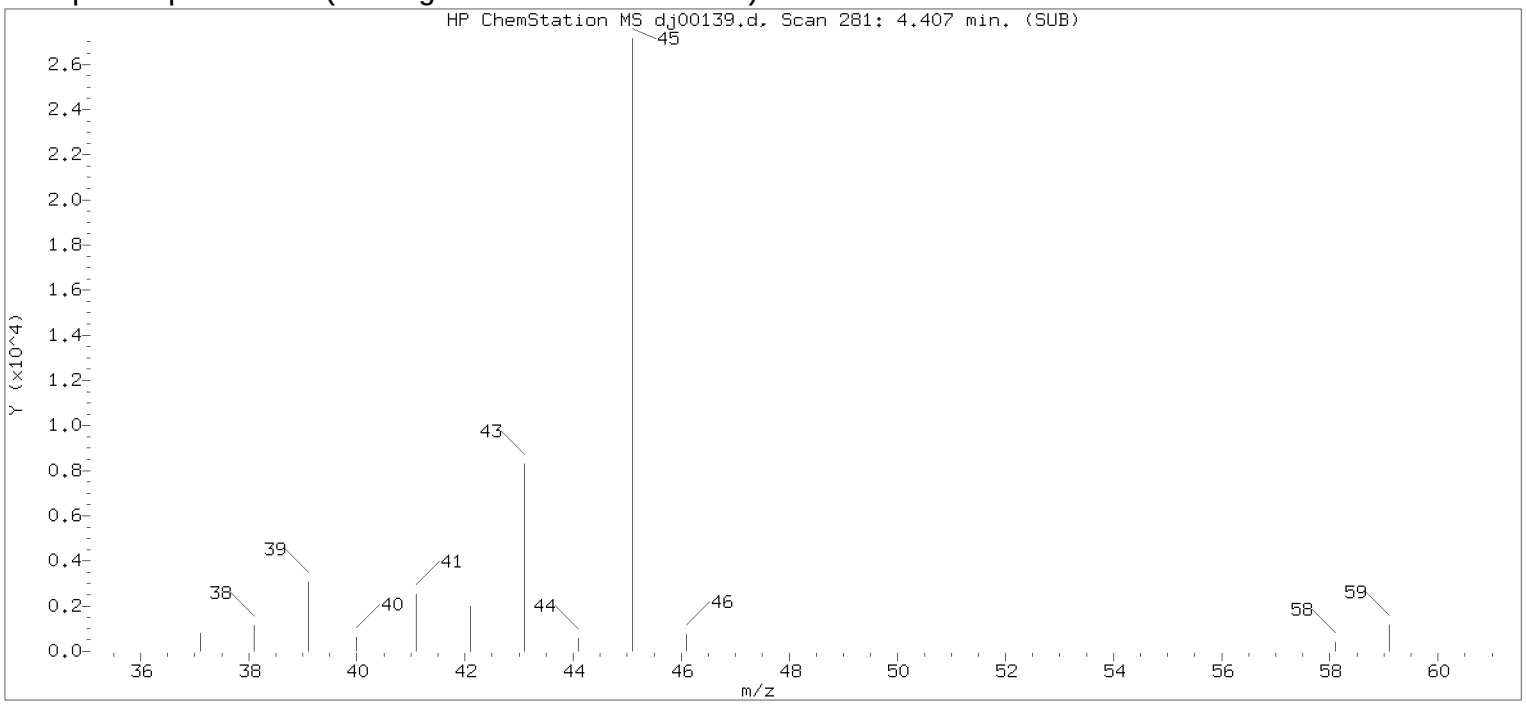
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 281
Retention Time (minutes): 4.407
Quant Ion : 45.00
Area (flag) : 437827M
Concentration (ppb(v)) : 7.9293
Integration start scan : 274 Integration stop scan: 335
Y at integration start : 25 Y at integration end: 25

Reason for manual integration: improper integration

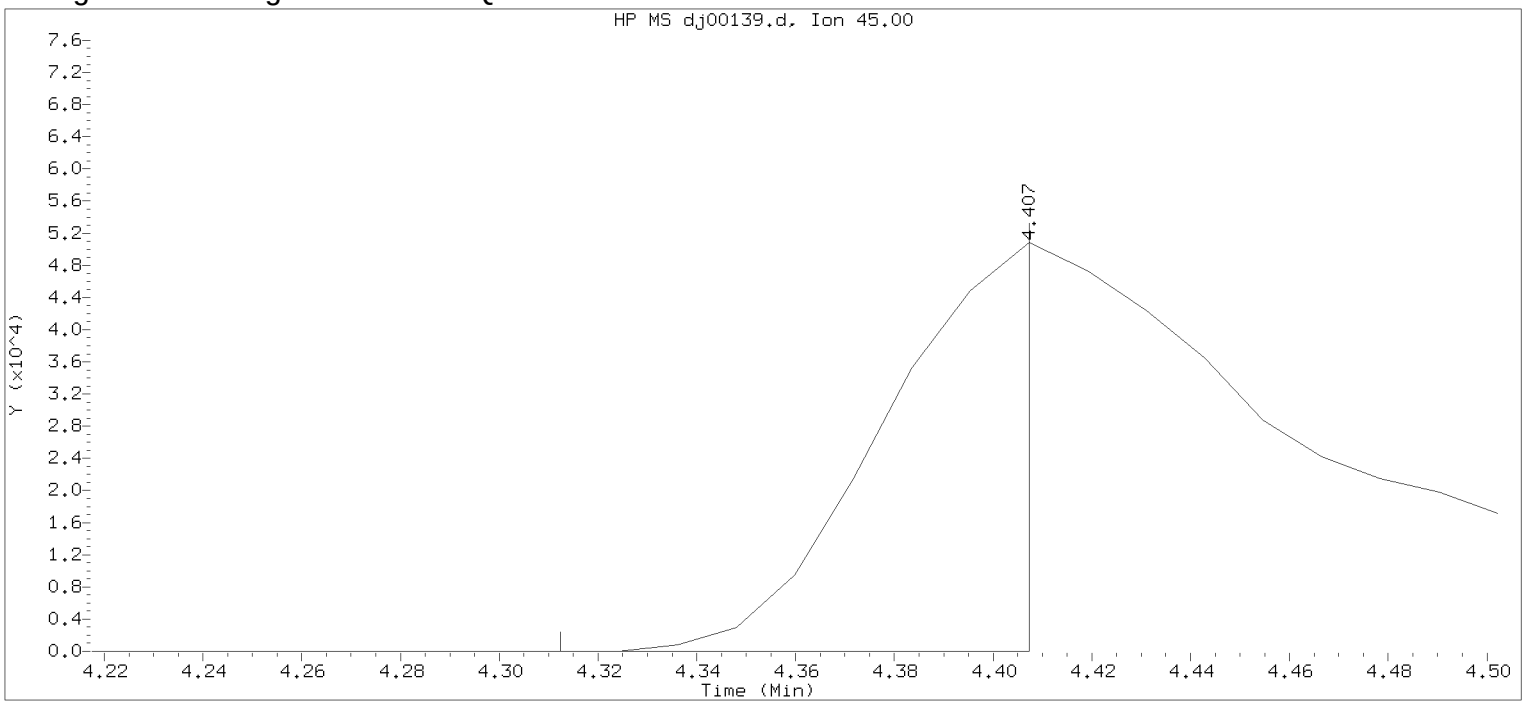
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

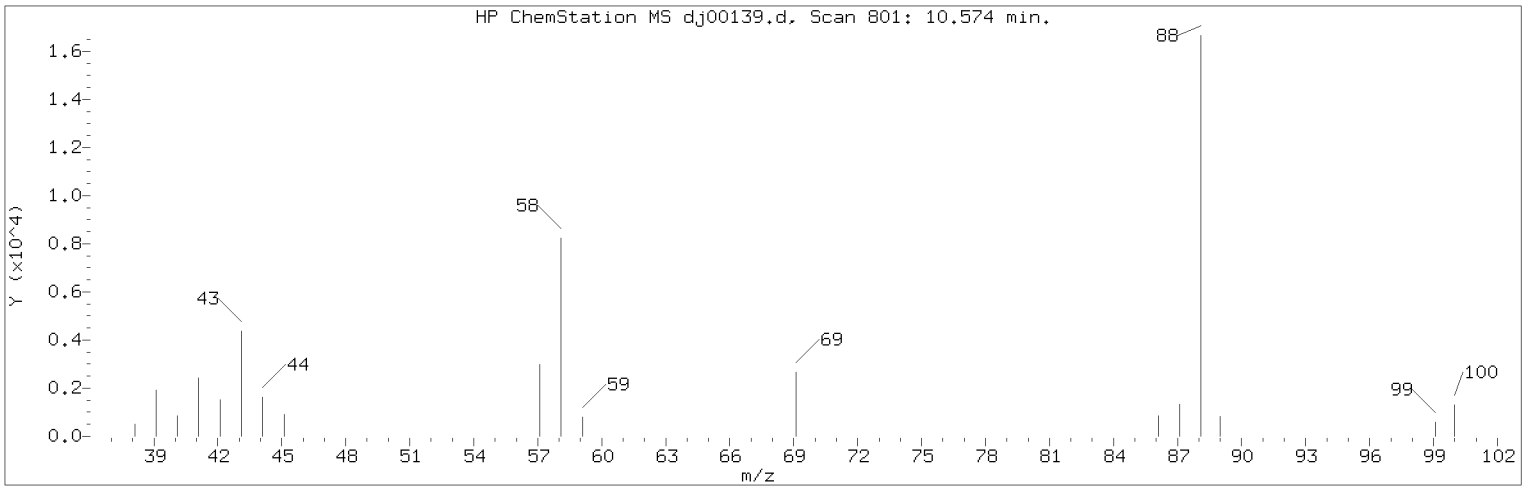
Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:40 Automation

Sample Name: LCSD90 Lab Sample ID: LCSD90

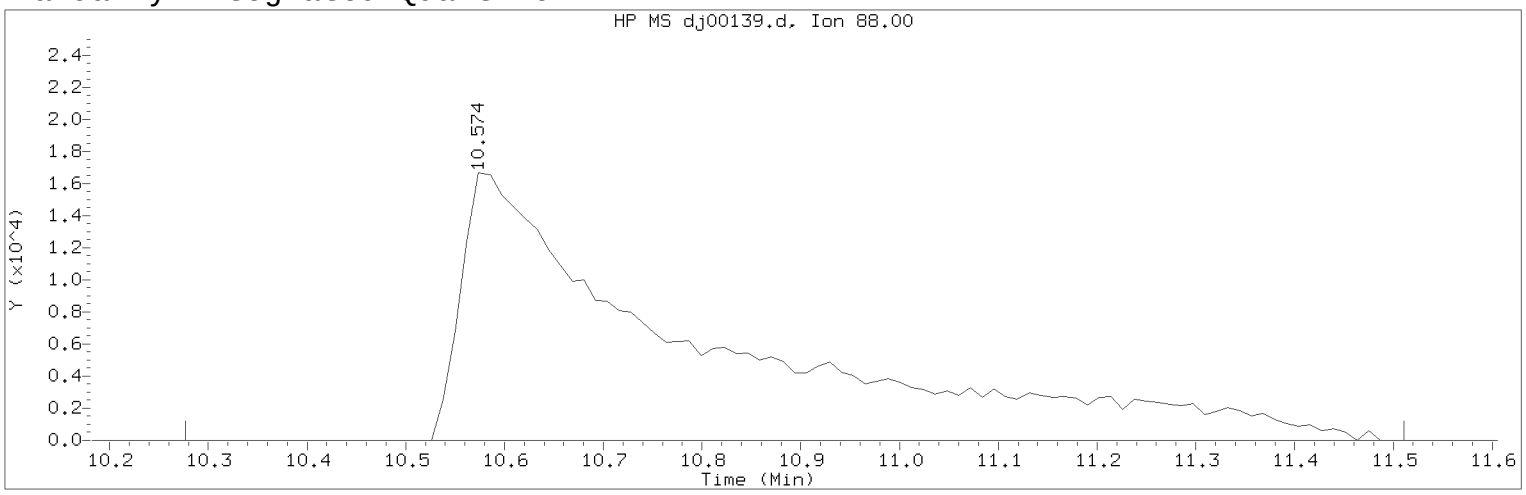
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 281
Retention Time (minutes): 4.407
Quant Ion : 45.00
Area : 99668
Concentration (ppb(v)) : 1.8050
Integration start scan : 272 Integration stop scan: 280
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25.
Target 3.5 esignature userSSX07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:53 jeb07445

Sample Name: LCSD90 Lab Sample ID: LCSD90

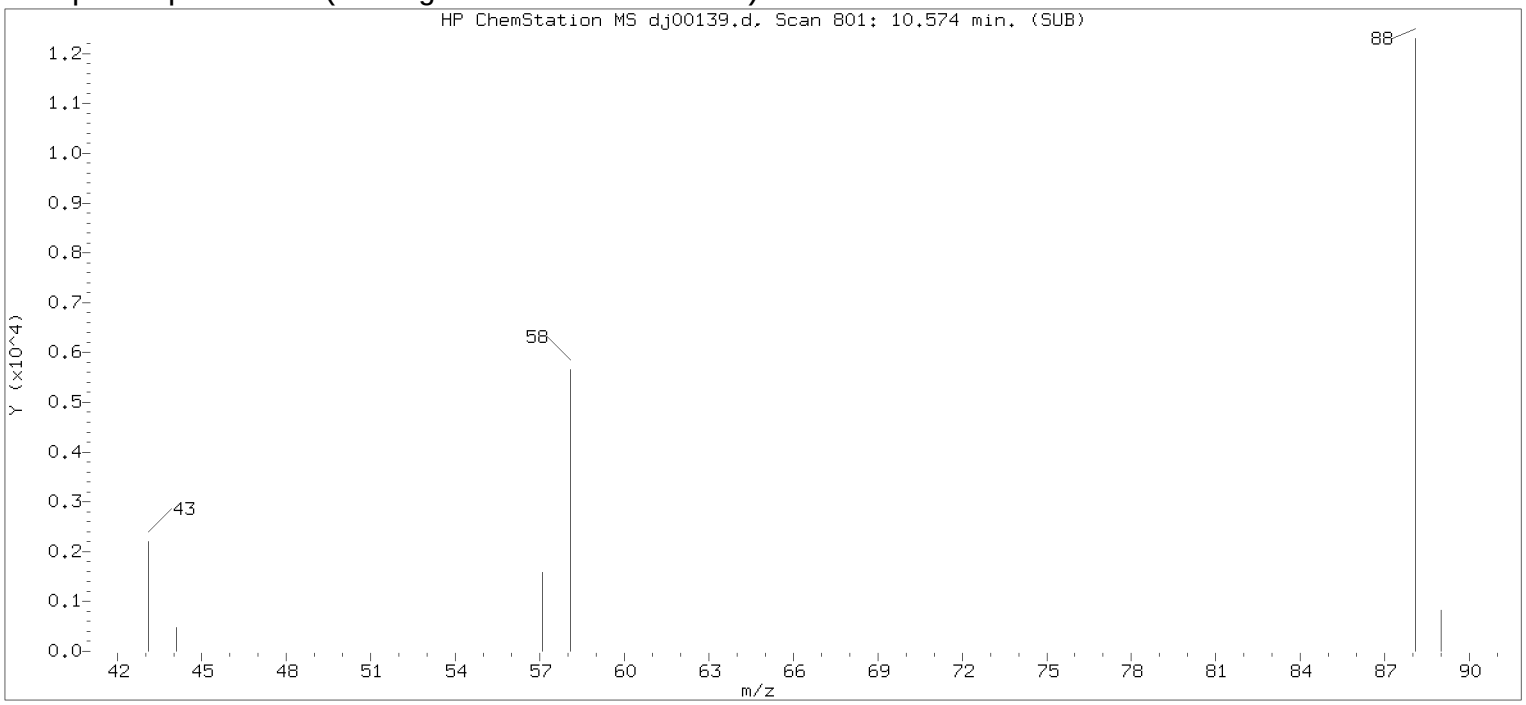
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 801
Retention Time (minutes): 10.574
Quant Ion : 88.00
Area (flag) : 276309M
Concentration (ppb(v)) : 8.5076
Integration start scan : 775 Integration stop scan: 879
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

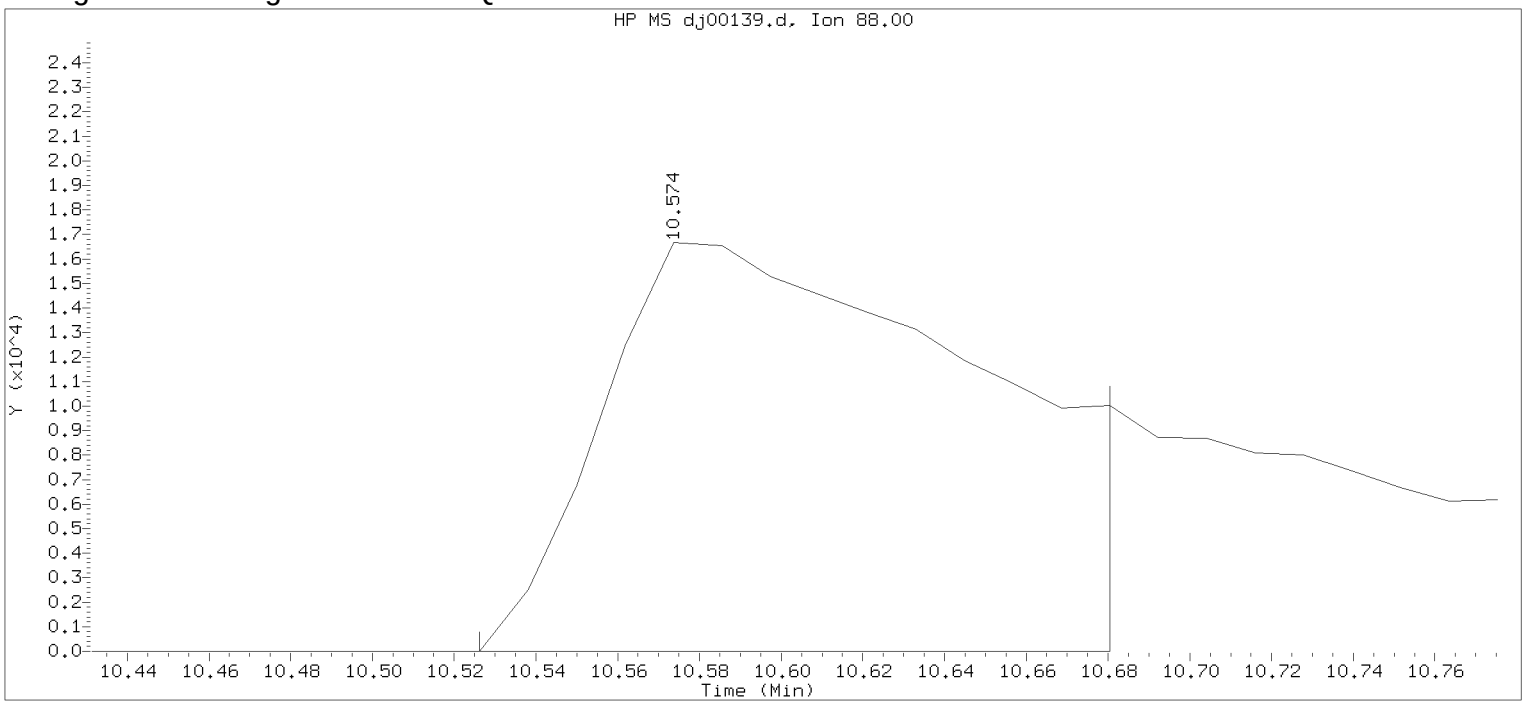
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/07/2015 at 22:25.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00139.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 21:40 Automation

Sample Name: LCSD90 Lab Sample ID: LCSD90

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 801
Retention Time (minutes): 10.574
Quant Ion : 88.00
Area : 106361
Concentration (ppb(v)) : 3.2749
Integration start scan : 796 Integration stop scan: 809
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/07/2015 at 22:25.
Target 3.5 esignature user SDX07jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

LCSDD90

Data file: /chem/HP10145.i/15oct07.b/dj00140.d Injection date and time: **07-OCT-2015 21:44**
Data file Sample Info. Line: LCSDD90;250;D1528030AA;LCSDD90;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.289(-0.024)	524	130	594247 (-11)	10.00		402252 - 938586
51) 1,4-Difluorobenzene	9.222(-0.024)	687	114	2271605 (-8)	10.00		1474106 - 3439580
71) Chlorobenzene-d5	15.447(-0.024)	1212	117	2173665 (-6)	10.00		1383036 - 3227082

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	2.059(-0.005)	41	145283	6.079	6.08			0.5	1
2) Dichlorodifluoromethane	(1)	2.095(-0.002)	85	1892138	11.095	11.10			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.237(-0.002)	85	1289782	9.382	9.38			0.2	1
5) Chloromethane	(1)	2.284(-0.002)	52	60474	5.604	5.60			0.5	2
6) Vinyl Chloride	(1)	2.403(-0.002)	62	317953	7.582	7.58			0.2	1
7) 1,3-Butadiene	(1)	2.450(-0.002)	54	187100	6.764	6.76			0.4	2
8) Bromomethane	(1)	2.771(-0.002)	94	441967	8.297	8.30			0.2	1
9) Chloroethane	(1)	2.889(-0.001)	64	179314	7.635	7.63			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.198(-0.001)	101	2084957	11.766	11.77			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.696(-0.019)	45	79359M	5.141	5.14			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.779(-0.004)	56	81293	6.997	7.00			0.5	2
17) 1,1-Dichloroethene	(1)	3.850(-0.001)	61	731833	10.191	10.19			0.2	1
18) Freon 113	(1)	3.885(-0.001)	103	750091	9.554	9.55			0.5	2
19) Acetone	(1)	4.028(-0.006)	43	497818	9.467	9.47			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.122(-0.001)	76	1202547	9.125	9.12			0.5	1
22) Isopropanol	(1)	4.478(-0.024)	45	446172M	7.242	7.24			0.5	1
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.597(-0.001)	84	375783	9.802	9.80			0.5	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)	5.059(-0.000)	61	564074	9.386	9.39			0.2	1
29) Methyl t-Butyl Ether	(1)	5.166(-0.005)	73	1388334	9.721	9.72			0.2	1
30) Hexane	(1)	5.593(-0.000)	57	455597	7.135	7.14			0.2	1
31) 1,1-Dichloroethane	(1)	5.806(-0.000)	63	728750	8.832	8.83			0.2	1
32) Vinyl Acetate	(1)	6.020(-0.002)	86	97466	8.039	8.04			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.874(-0.000)	61	534848	8.987	8.99			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1098922	18.373	18.37			0.2	1
37) 2-Butanone	(1)	6.862(0.017)	72	194983	8.892	8.89			0.5	2
38) Ethyl Acetate	(1)	7.182(-0.003)	70	101536	7.083	7.08			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.490(-0.006)	42	236808	6.929	6.93			0.5	1
42) Chloroform	(1)	7.478(0.001)	83	1248250	10.357	10.36			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.751(0.000)	97	1687989	11.337	11.34			0.2	1
44) Cyclohexane	(1)	7.822(0.001)	56	498883	7.422	7.42			0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP10145.i/15oct07.b/dj00140.d Injection date and time: **07-OCT-2015 21:44**
Data file Sample Info. Line: LCSDD90;250;D1528030AA;LCSDD90;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.048(0.000)	117	1925206	12.365	12.37			0.2	1
46) Benzene	(2)	8.427(-0.000)	78	1318820	8.616	8.62			0.2	1
47) 1,2-Dichloroethane	(2)	8.486(-0.000)	62	863069	11.605	11.60			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.032(-0.000)	43	435279	7.153	7.15			0.2	1
52) Trichloroethene	(2)	9.660(0.000)	130	670266	8.137	8.14			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.075(0.001)	63	366691	8.169	8.17			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.609(-0.007)	88	322529M	8.536	8.54			0.5	1
57) Methyl Methacrylate	(2)	10.502(-0.000)	69	407106	8.324	8.32			0.5	1
58) Bromodichloromethane	(2)	10.668(0.001)	83	1373473	10.793	10.79			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.617(0.001)	75	802021	10.196	10.20			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.103(-0.003)	43	632635	7.745	7.74			0.5	2
61) Toluene	(3)	12.305(-0.000)	91	1829836	8.487	8.49			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.874(-0.000)	75	782146	9.152	9.15			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	1584167	19.348	19.35			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.254(-0.000)	97	632872	8.653	8.65			0.2	1
67) Tetrachloroethene	(3)	13.491(0.000)	166	1172956	7.718	7.72			0.2	1
68) 2-Hexanone	(3)	14.024(-0.003)	43	629879M	8.205	8.20			0.5	1
69) Dibromochloromethane	(3)	14.095(0.000)	127	1103944	9.543	9.54			0.2	1
70) 1,2-Dibromoethane	(3)	14.297(-0.000)	107	1055104	8.962	8.96			0.2	1
72) Chlorobenzene	(3)	15.507(0.000)	112	1495501	8.320	8.32			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.862(0.000)	91	2574405	9.008	9.01			0.2	1
75) m/p-Xylene	(3)	16.171(0.000)	91	4424532	17.488	17.49			0.2	1
76) o-Xylene	(3)	17.131(0.000)	91	2263003	9.443	9.44			0.2	1
77) Xylene (total)	(3)		91	6687535	26.931	26.93			0.2	1
78) Styrene	(3)	17.190(0.000)	104	1544154	8.494	8.49			0.2	1
79) Bromoform	(3)	17.558(0.000)	173	1543509	9.793	9.79			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	18.981(0.000)	83	1268286	8.851	8.85			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.2	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.538(0.001)	105	2971381	8.660	8.66			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.740(0.000)	105	2814005	9.048	9.05			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.701(0.001)	105	2641697	8.904	8.90			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.365(0.001)	146	1566867	8.827	8.83			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.661(0.000)	146	1509805	8.706	8.71			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.171(0.000)	91	1853256	9.485	9.48			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.823(0.001)	146	1456303	8.600	8.60			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	25.906(0.002)	180	986346	7.868	7.87			0.5	2

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15oct07.b/dj00140.d Injection date and time: **07-OCT-2015 21:44**
Data file Sample Info. Line: LCSDD90;250;D1528030AA;LCSDD90;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1528030AA**
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Blank Data file reference: **/chem/HP10145.i/15oct07.b/dj00138.d**

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15oct07.b/dj00136.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

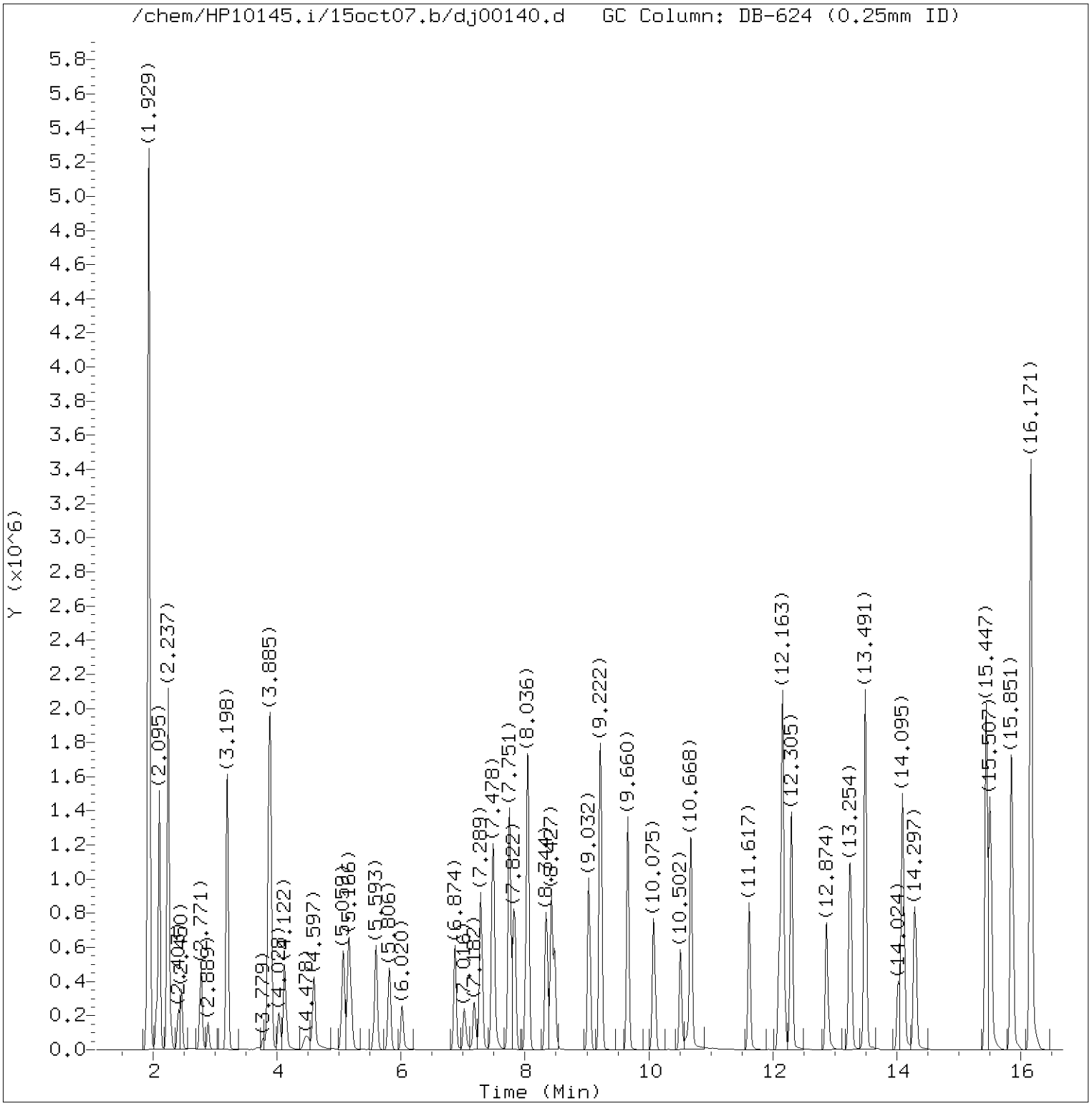
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.179(0.002)	225	1879746	9.414	9.41			0.4	2
102) Naphthalene	(3)	26.215(0.001)	128	1670742	8.030	8.03			0.5	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

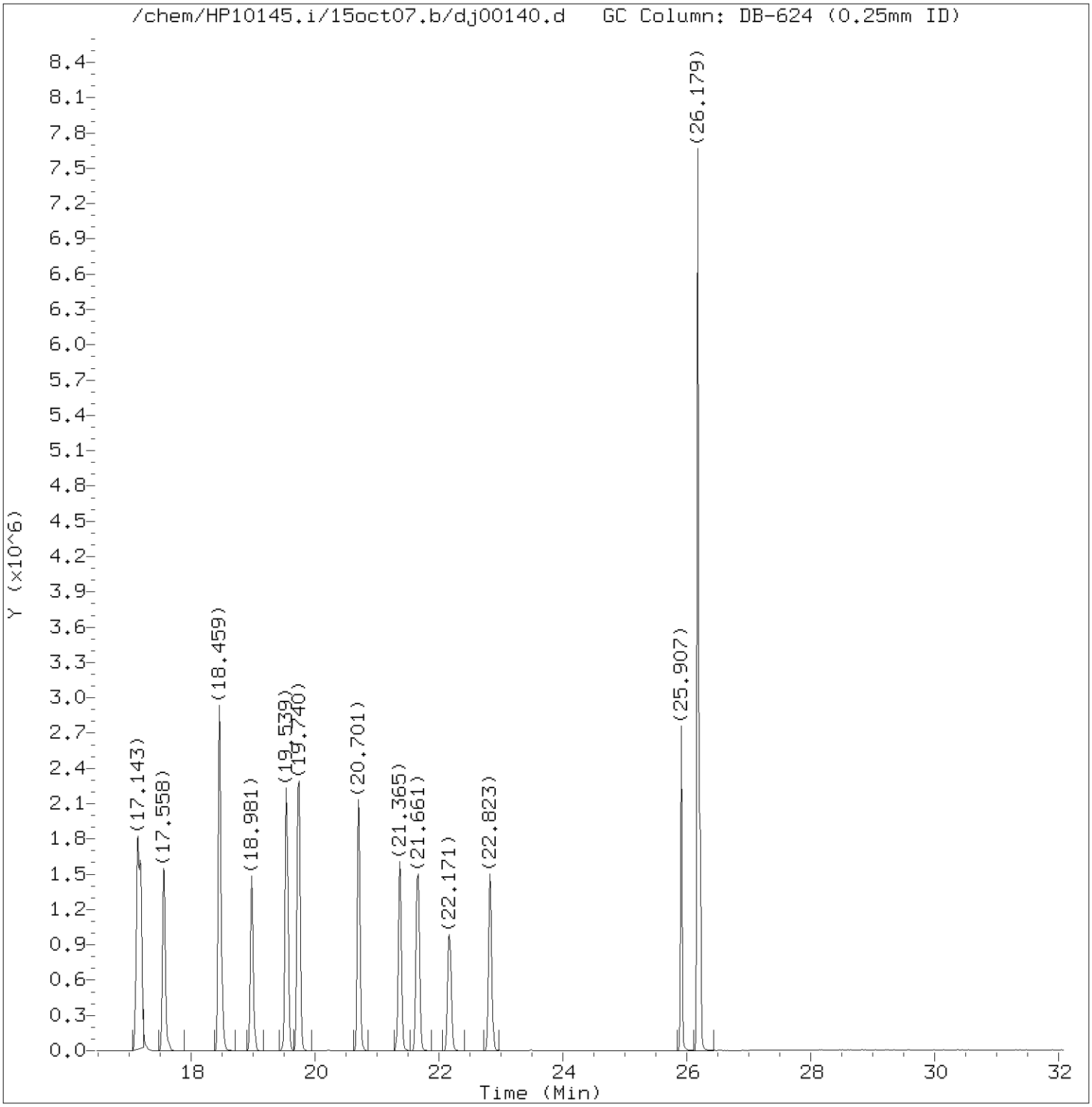
Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.059	41	145283	6.079
2) Dichlorodifluoromethane	(1)	2.095	85	1892138	11.095
4) Freon 114	(1)	2.237	85	1289782	9.382
5) Chloromethane	(1)	2.284	52	60474	5.604
6) Vinyl Chloride	(1)	2.403	62	317953	7.582
7) 1,3-Butadiene	(1)	2.450	54	187100	6.764
8) Bromomethane	(1)	2.771	94	441967	8.297
9) Chloroethane	(1)	2.889	64	179314	7.635
12) Trichlorofluoromethane	(1)	3.198	101	2084957	11.766
14) Ethanol	(1)	3.696	45	79359M	5.141
16) Acrolein	(1)	3.779	56	81293	6.997
17) 1,1-Dichloroethene	(1)	3.850	61	731833	10.191
18) Freon 113	(1)	3.885	103	750091	9.554
19) Acetone	(1)	4.028	43	497818	9.467
21) Carbon Disulfide	(1)	4.122	76	1202547	9.125
22) Isopropanol	(1)	4.478	45	446172M	7.242
25) Methylene Chloride	(1)	4.597	84	375783	9.802
28) trans-1,2-Dichloroethene	(1)	5.059	61	564074	9.386
29) Methyl t-Butyl Ether	(1)	5.166	73	1388334	9.721
30) Hexane	(1)	5.593	57	455597	7.135
31) 1,1-Dichloroethane	(1)	5.806	63	728750	8.832
32) Vinyl Acetate	(1)	6.020	86	97466	8.039
36) 1,2-Dichloroethene (total)	(1)		61	1098922	18.373
37) 2-Butanone	(1)	6.862	72	194983	8.892
35) cis-1,2-Dichloroethene	(1)	6.874	61	534848	8.987
38) Ethyl Acetate	(1)	7.182	70	101536	7.083
40)*Bromochloromethane	(1)	7.289	130	594247	10.000
42) Chloroform	(1)	7.478	83	1248250	10.357
41) Tetrahydrofuran	(1)	7.490	42	236808	6.929
43) 1,1,1-Trichloroethane	(1)	7.751	97	1687989	11.337
44) Cyclohexane	(1)	7.822	56	498883	7.422
45) Carbon Tetrachloride	(1)	8.048	117	1925206	12.365
46) Benzene	(2)	8.427	78	1318820	8.616
47) 1,2-Dichloroethane	(2)	8.486	62	863069	11.605
50) Heptane	(2)	9.032	43	435279	7.153
51)*1,4-Difluorobenzene	(2)	9.222	114	2271605	10.000
52) Trichloroethene	(2)	9.660	130	670266	8.137
54) 1,2-Dichloropropane	(2)	10.075	63	366691	8.169

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

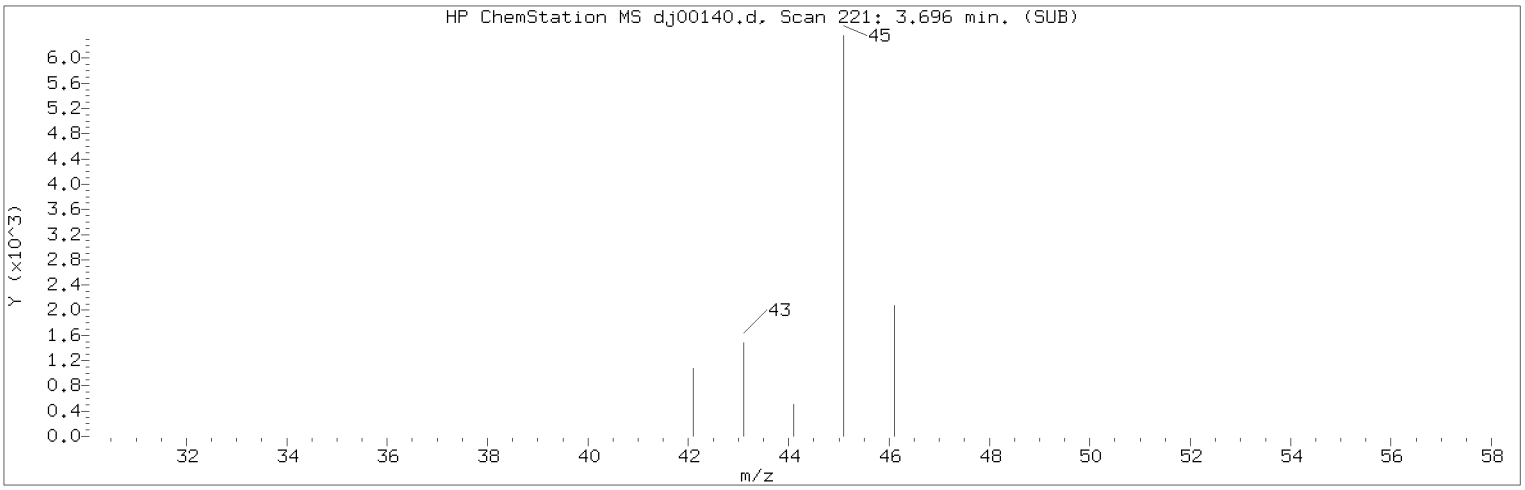
Sample Name: LCSDD90 Lab Sample ID: LCSDD90

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
57) Methyl Methacrylate	(2)	10.502	69	407106	8.324
56) 1,4-Dioxane	(2)	10.609	88	322529M	8.536
58) Bromodichloromethane	(2)	10.668	83	1373473	10.793
59) cis-1,3-Dichloropropene	(2)	11.617	75	802021	10.196
60) 4-Methyl-2-Pentanone	(2)	12.103	43	632635	7.745
61) Toluene	(3)	12.305	91	1829836	8.487
63) trans-1,3-Dichloropropene	(3)	12.874	75	782146	9.152
64) 1,3-Dichloropropene (total)	(3)		75	1584167	19.348
66) 1,1,2-Trichloroethane	(3)	13.254	97	632872	8.653
67) Tetrachloroethene	(3)	13.491	166	1172956	7.718
68) 2-Hexanone	(3)	14.024	43	629879M	8.205
69) Dibromochloromethane	(3)	14.095	127	1103944	9.543
70) 1,2-Dibromoethane	(3)	14.297	107	1055104	8.962
71)*Chlorobenzene-d5	(3)	15.447	117	2173665	10.000
72) Chlorobenzene	(3)	15.507	112	1495501	8.320
74) Ethylbenzene	(3)	15.862	91	2574405	9.008
75) m/p-Xylene	(3)	16.171	91	4424532	17.488
76) o-Xylene	(3)	17.131	91	2263003	9.443
78) Styrene	(3)	17.191	104	1544154	8.494
77) Xylene (total)	(3)		91	6687535	26.931
79) Bromoform	(3)	17.558	173	1543509	9.793
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1268286	8.851
86) 4-Ethyltoluene	(3)	19.539	105	2971381	8.660
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	2814005	9.048
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	2641697	8.904
92) 1,3-Dichlorobenzene	(3)	21.365	146	1566867	8.827
93) 1,4-Dichlorobenzene	(3)	21.661	146	1509805	8.706
95) Benzyl Chloride	(3)	22.171	91	1853256	9.485
96) 1,2-Dichlorobenzene	(3)	22.823	146	1456303	8.600
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	986346	7.868
101) Hexachlorobutadiene	(3)	26.179	225	1879746	9.414
102) Naphthalene	(3)	26.215	128	1670742	8.030

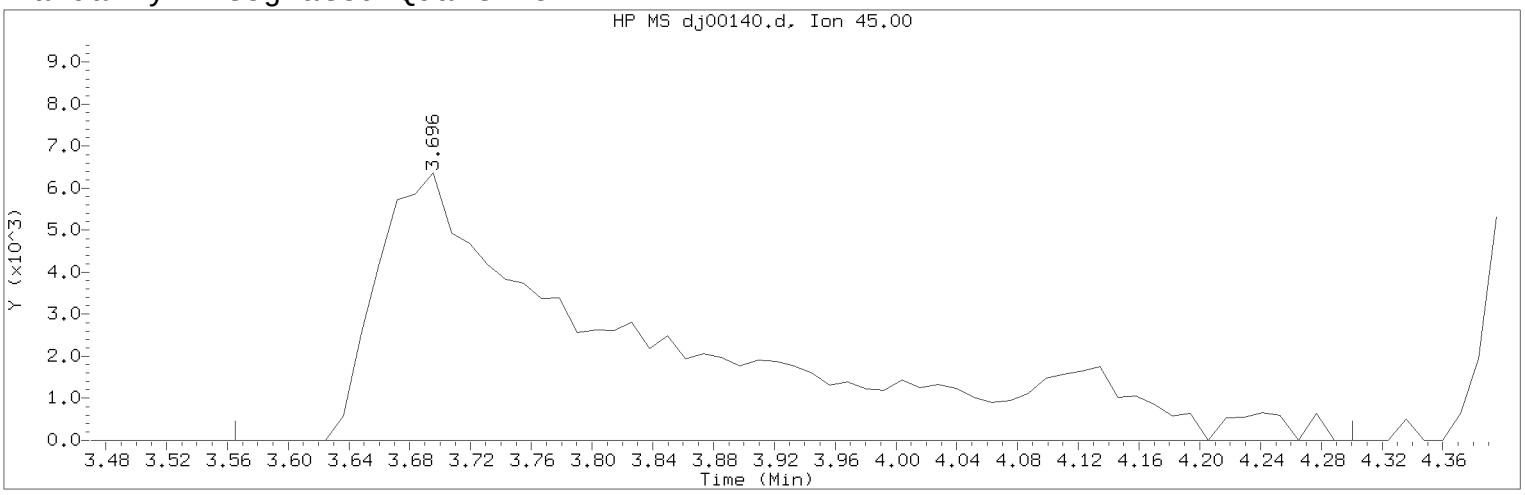
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

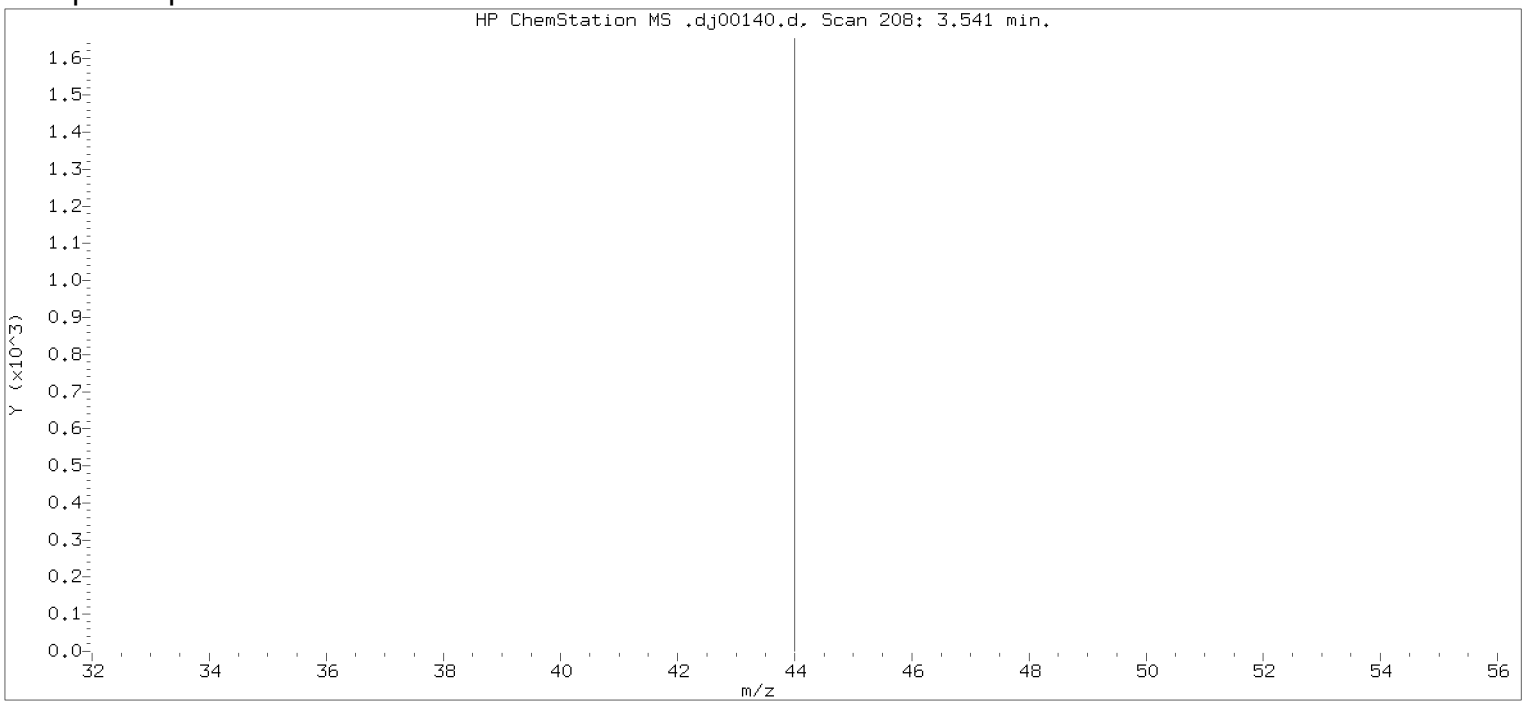
Compound Number : 14
Compound Name : Ethanol
Scan Number : 221
Retention Time (minutes): 3.696
Quant Ion : 45.00
Area (flag) : 79359M
Concentration (ppb(v)) : 5.1414
Integration start scan : 209 Integration stop scan: 271
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

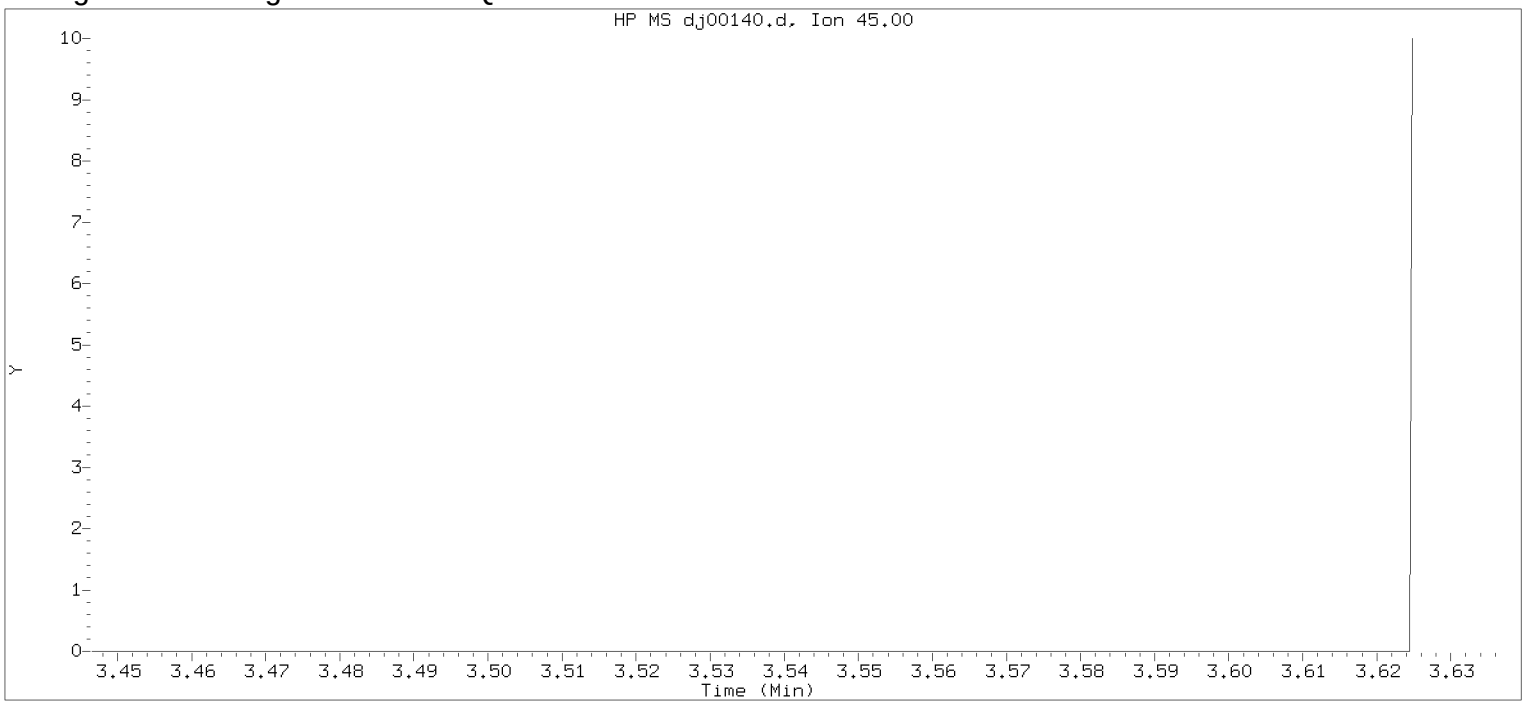
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

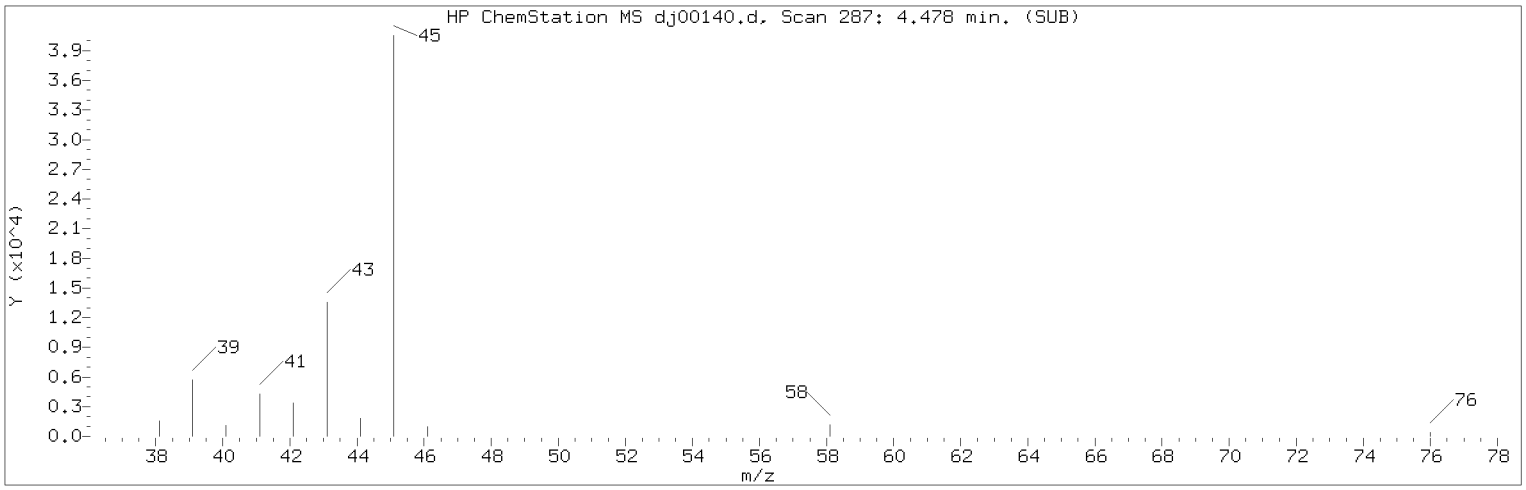
Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 22:25 Automation

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

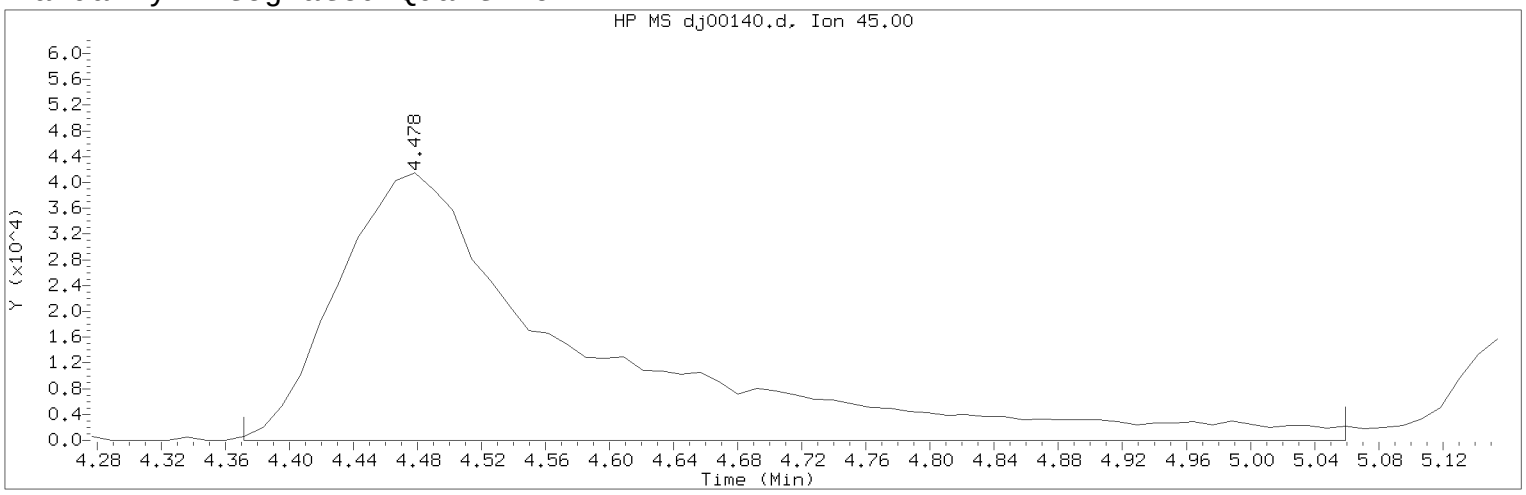
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.542
Quant Ion : 45.00

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

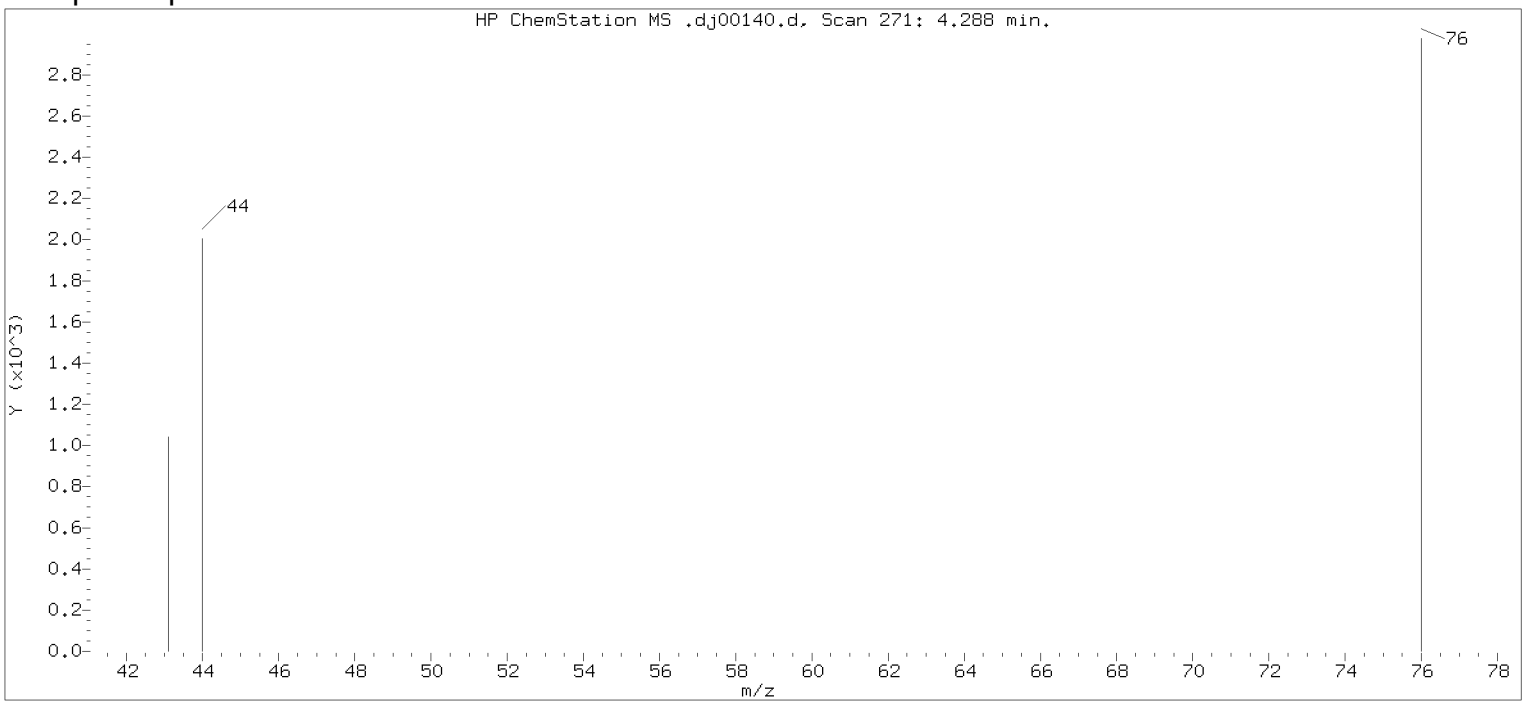
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 287
Retention Time (minutes): 4.478
Quant Ion : 45.00
Area (flag) : 446172M
Concentration (ppb(v)) : 7.2419
Integration start scan : 277 Integration stop scan: 335
Y at integration start : 1 Y at integration end: 1

Reason for manual integration: missed peak

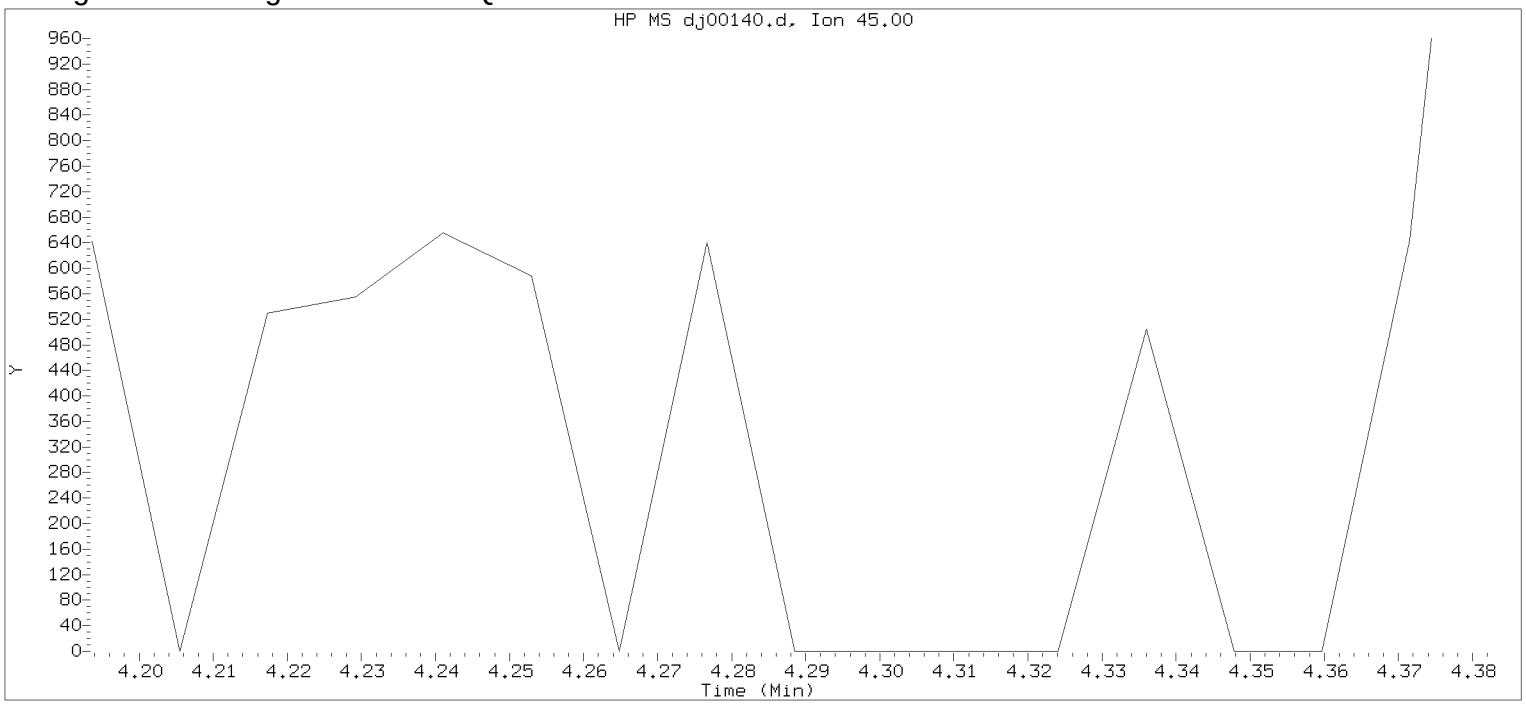
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

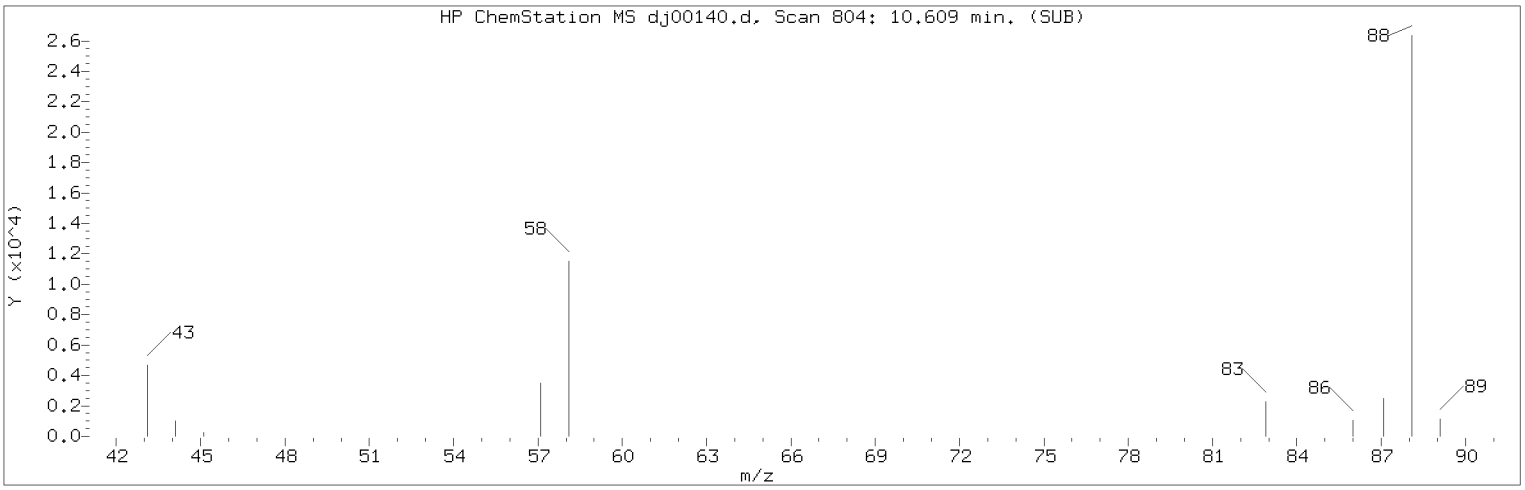
Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 22:25 Automation

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

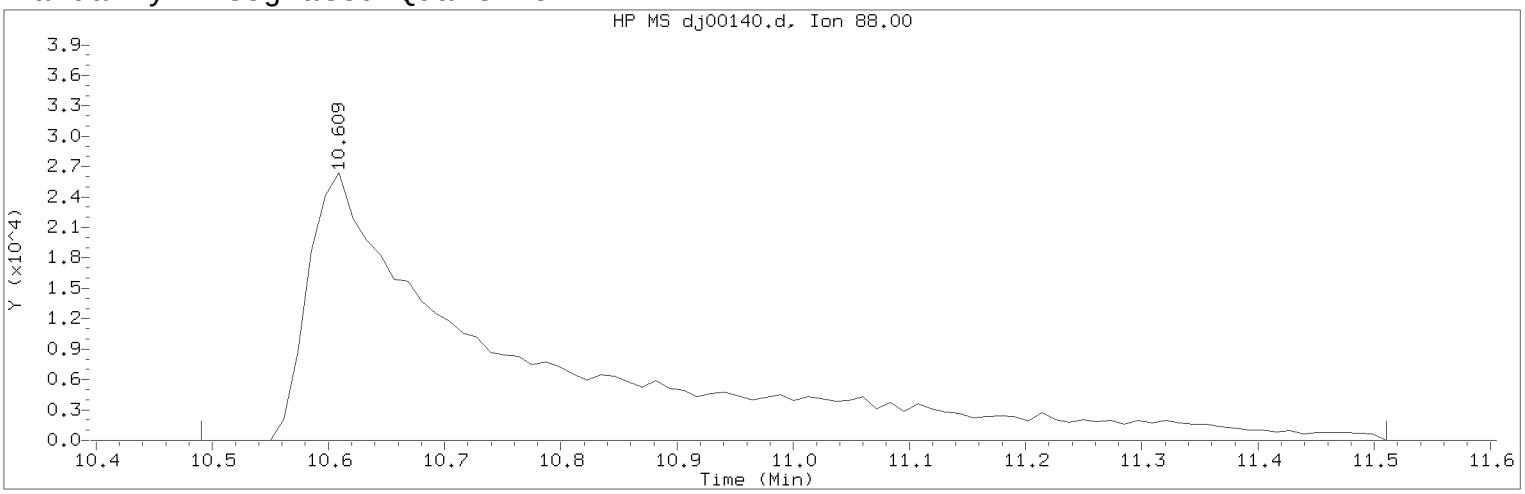
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.289
Quant Ion : 45.00

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

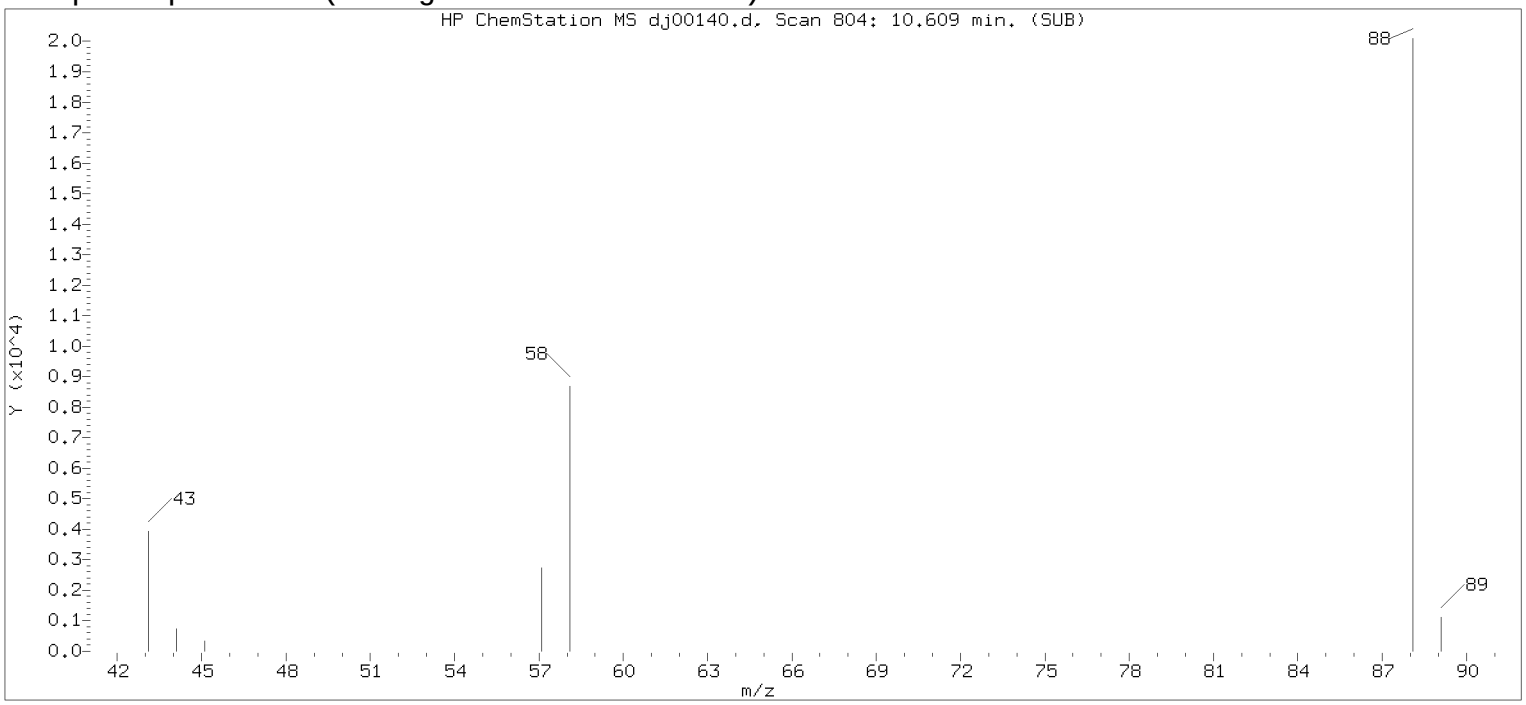
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 804
Retention Time (minutes): 10.609
Quant Ion : 88.00
Area (flag) : 322529M
Concentration (ppb(v)) : 8.5358
Integration start scan : 793 Integration stop scan: 879
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

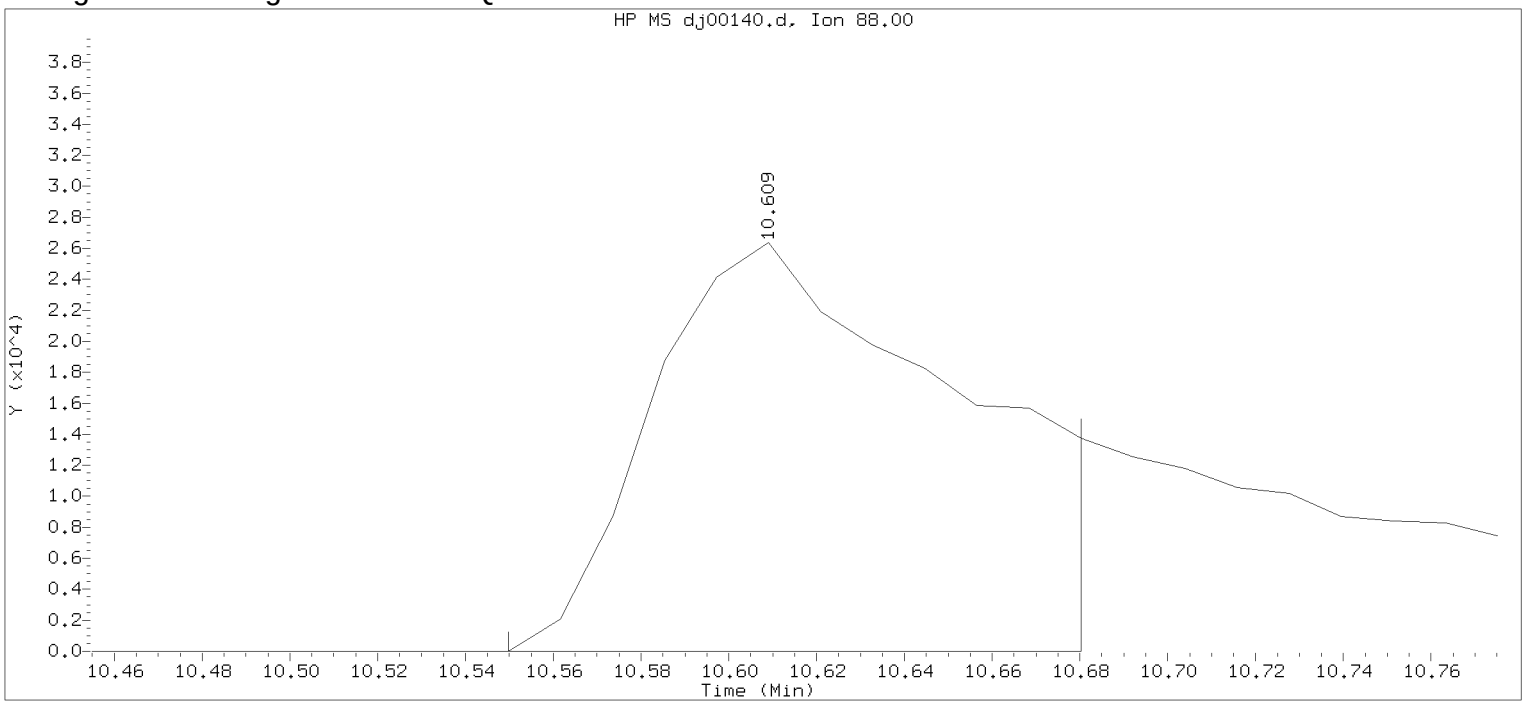
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

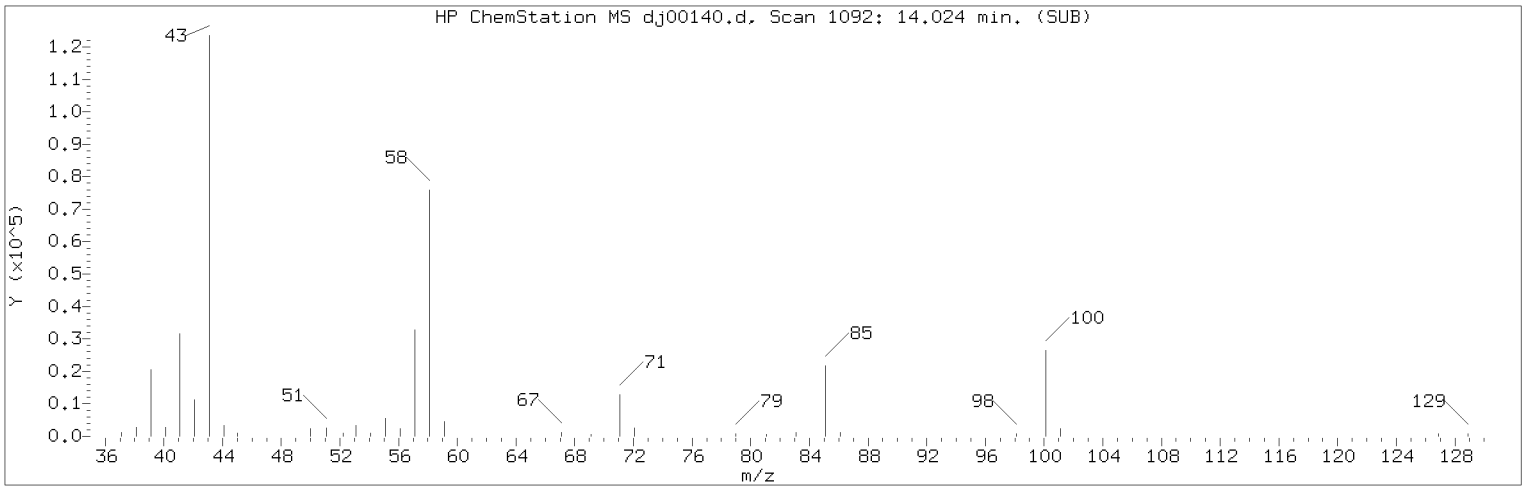
Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 22:25 Automation

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

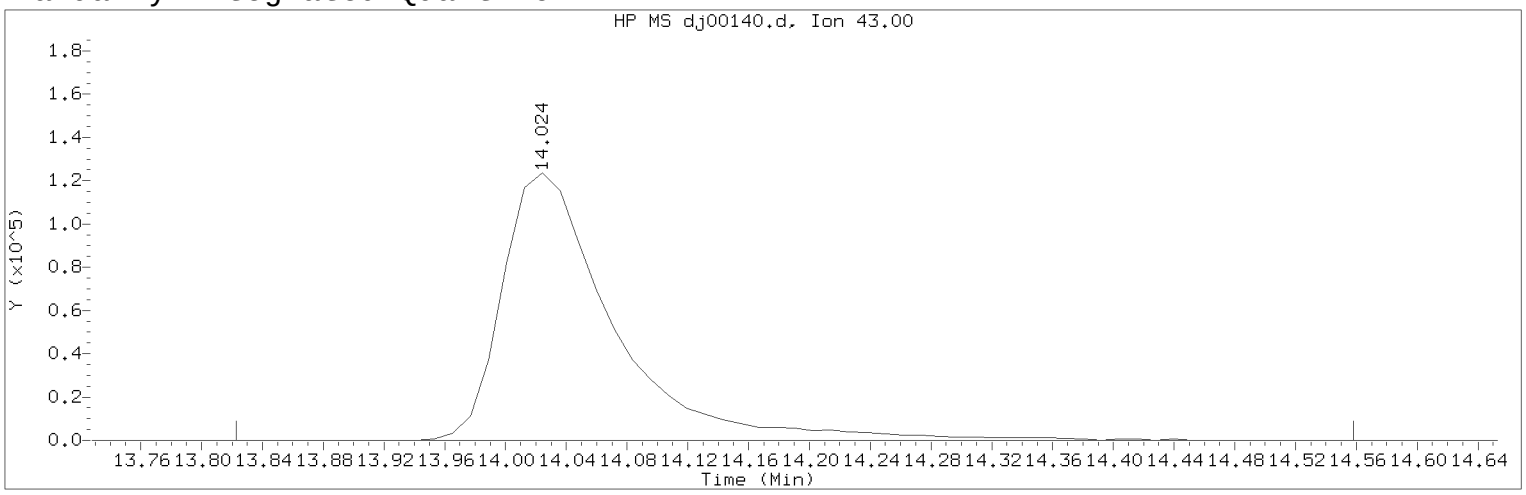
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 804
Retention Time (minutes): 10.609
Quant Ion : 88.00
Area : 126927
Concentration (ppb(v)) : 3.3592
Integration start scan : 798 Integration stop scan: 809
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50.
Target 3.5 esignature user SDG07jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 12-Oct-2015 13:49 jeb07445

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

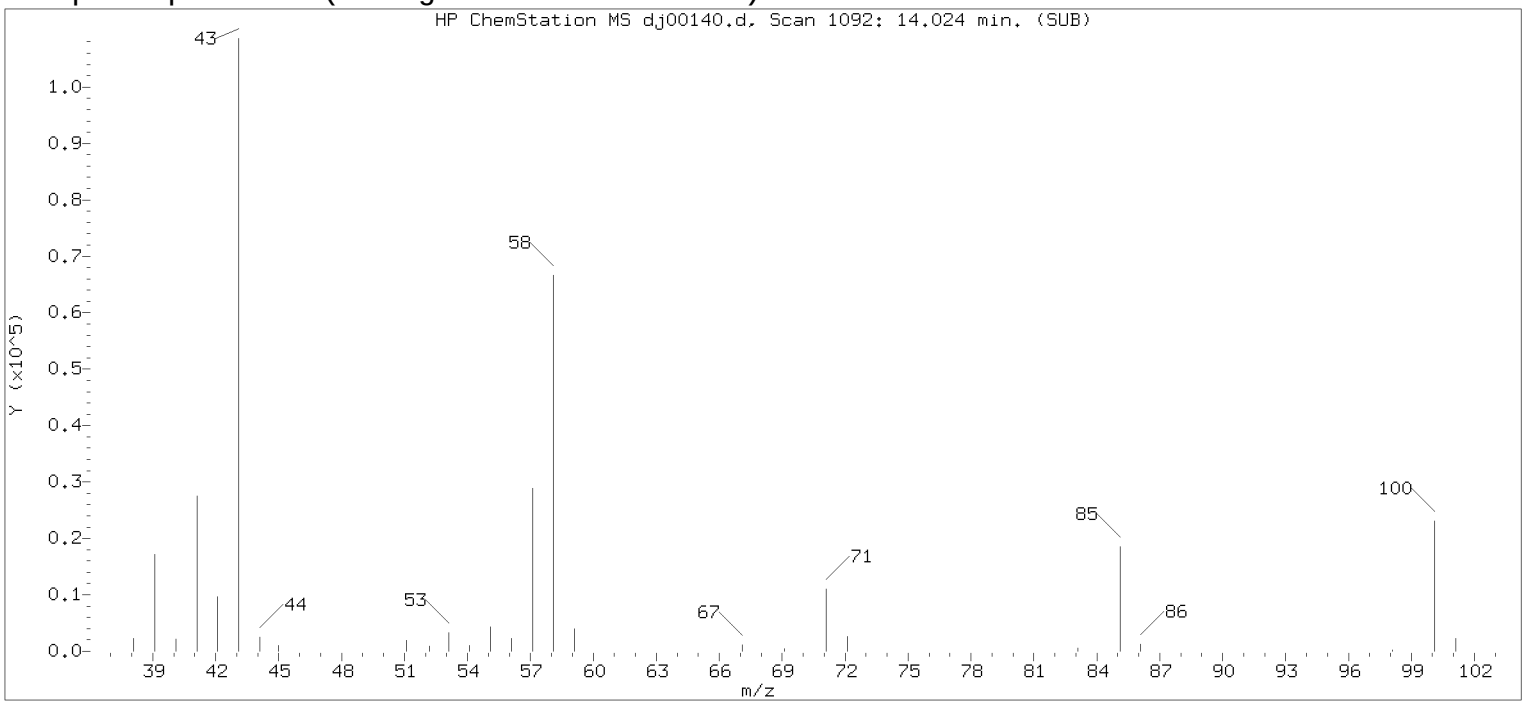
Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.024
Quant Ion : 43.00
Area (flag) : 629879M
Concentration (ppb(v)) : 8.2048
Integration start scan : 1074 Integration stop scan: 1136
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

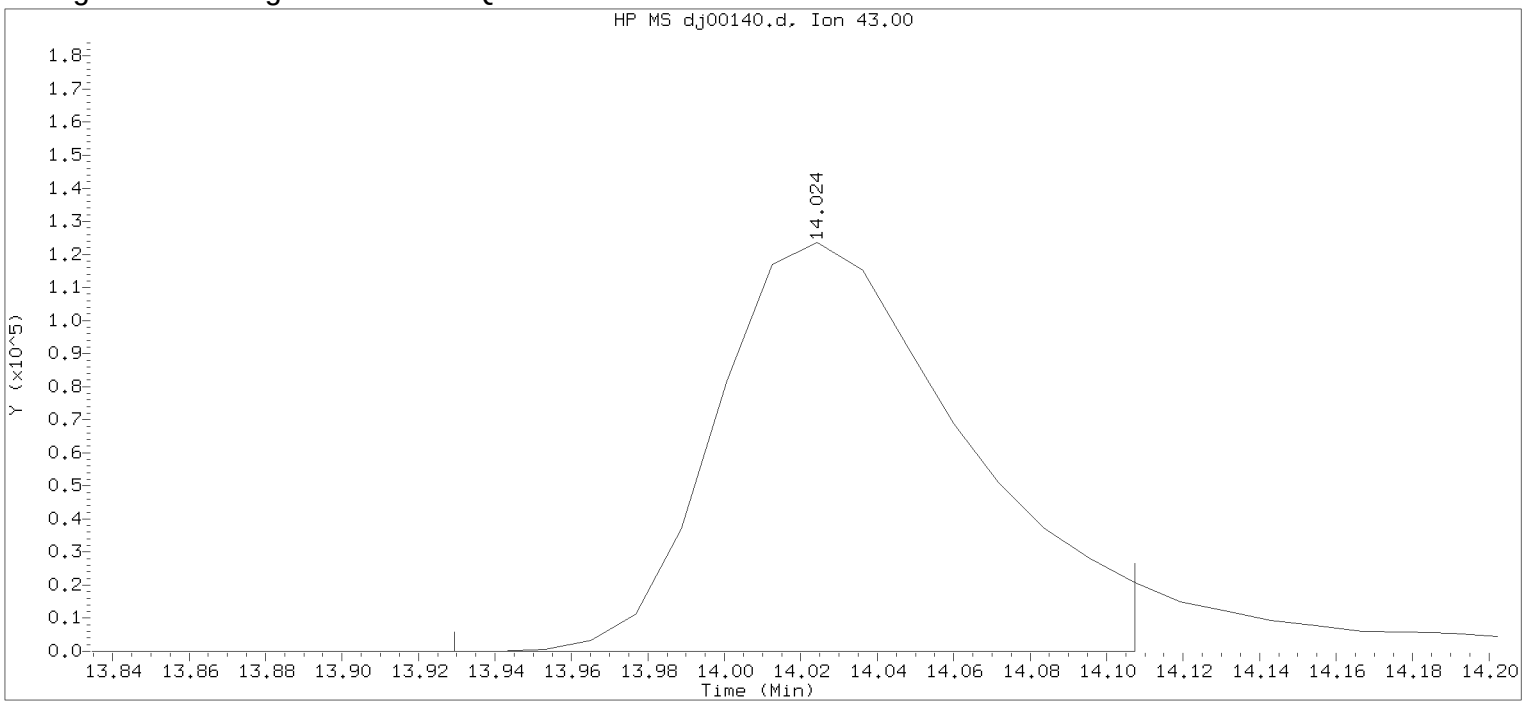
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/12/2015 at 13:50.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00140.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 22:25 Automation

Sample Name: LCSDD90 Lab Sample ID: LCSDD90

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.024
Quant Ion : 43.00
Area : 553099
Concentration (ppb(v)) : 7.2047
Integration start scan : 1083 Integration stop scan: 1098
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 10/12/2015 at 13:50.
Target 3.5 esignature user SDX07jeb07445

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP10145 **HP #04**

Data Directory Path is - C:\msdchem\1\data\15oct07\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	DJ00130.D	50NGBFB	10/07/2015	12:57		
jbs01304	DJ00131.D	VSTD010	10/07/2015	14:15		
jeb07445	DJ00132.D	VSTD010	10/07/2015	14:51		
jeb07445	DJ00133.D	VSTD010	10/07/2015	15:46		
jeb07445	DJ00134.D	VSTD010	10/07/2015	16:42		
jeb07445	DJ00135.D	VSTD010	10/07/2015	17:28		
jeb07445	DJ00136.D	VSTD010	10/07/2015	18:23		
jeb07445	DJ00137.D	VBLKD90	10/07/2015	19:20	D1528030AA	
jeb07445	DJ00138.D	VBLKD90	10/07/2015	20:06	D1528030AA	
jeb07445	DJ00139.D	LCSD90	10/07/2015	20:58	D1528030AA	
jeb07445	DJ00140.D	LCSDD90	10/07/2015	21:44	D1528030AA	
jeb07445	DJ00141.D	8068003	10/07/2015	23:01	D1528030AA	
jeb07445	DJ00142.D	8068005	10/07/2015	23:50	D1528030AA	
jeb07445	DJ00143.D	8068009	10/08/2015	00:40	D1528030AA	
jeb07445	DJ00144.D	8065068	10/08/2015	01:31	D1528030AA	
jeb07445	DJ00145.D	8065277	10/08/2015	02:20	D1528030AA	100
jeb07445	DJ00150.D	8069478DL	10/08/2015	06:10	D1528030AA	100
jeb07445	DJ00151.D	8069479	10/08/2015	06:53	D1528030AA	100
jeb07445	DJ00152.D	8070354	10/08/2015	07:37	D1528030AA	100
jeb07445	DJ00153.D	8070355	10/08/2015	08:23	D1528030AA	
jeb07445	DJ00154.D	8071683	10/08/2015	09:06	D1528030AA	
jeb07445	DJ00155.D	8071684	10/08/2015	09:51	D1528030AA	100
jeb07445	DJ00157.D	FC1	10/08/2015	11:22	D1528030AA	
jeb07445	DJ00158.D	FC2	10/08/2015	12:08	D1528030AA	
jeb07445	DJ00159.D	8070355	10/08/2015	12:56	D1528030AA	

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP10145 **HP #04**

Data Directory Path is - C:\msdchem\1\data\15oct06\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	DJ00100.D	50NGBFB	10/06/2015	12:28		
jbs01304	DJ00101.D	VSTD010	10/06/2015	12:59		
jeb07445	DJ00105.D	VSTD010	10/06/2015	16:38		
jeb07445	DJ00106.D	VBLKD89	10/06/2015	17:35	D1527830AB	
jeb07445	DJ00107.D	VBLKD89	10/06/2015	18:21	D1527830AB	
jeb07445	DJ00108.D	Fc1	10/06/2015	19:15	D1527830AB	
jeb07445	DJ00109.D	Fc2	10/06/2015	20:09	D1527830AB	
jeb07445	DJ00110.D	Fc3	10/06/2015	21:14	D1527830AB	
jeb07445	DJ00111.D	8064885DL	10/06/2015	22:07	D1527830AB	
jeb07445	DJ00112.D	8065067DL	10/06/2015	22:53	D1527830AB	10000
jeb07445	DJ00113.D	8065278	10/06/2015	23:36	D1527830AB	
jeb07445	DJ00114.D	8065279	10/07/2015	00:21	D1527830AB	
jeb07445	DJ00115.D	8065280	10/07/2015	01:04	D1527830AB	
jeb07445	DJ00116.D	8065281	10/07/2015	01:48	D1527830AB	
jeb07445	DJ00117.D	8065282DL	10/07/2015	02:32	D1527830AB	100
jeb07445	DJ00118.D	8065283DL	10/07/2015	03:15	D1527830AB	
jeb07445	DJ00119.D	8065284DL	10/07/2015	04:01	D1527830AB	100
jeb07445	DJ00120.D	cc910	10/07/2015	04:47	D1527830AB	
jeb07445	DJ00121.D	cc911	10/07/2015	05:33	D1527830AB	
jeb07445	DJ00122.D	cc941	10/07/2015	06:19	D1527830AB	
jeb07445	DJ00123.D	cc997	10/07/2015	07:05	D1527830AB	
jeb07445	DJ00124.D	cc966	10/07/2015	07:50	D1527830AB	
jeb07445	DJ00125.D	cc1015	10/07/2015	08:36	D1527830AB	
jeb07445	DJ00126.D	cc1097	10/07/2015	09:22	D1527830AB	
jeb07445	DJ00127.D	FC4	10/07/2015	11:09	D1527830AB	
jeb07445	DJ00128.D	FC5	10/07/2015	11:56	D1527830AB	

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP10145 **HP #04**

Data Directory Path is - C:\msdchem\1\data\15oct05\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	DJ00070.D	50NGBFB	10/05/2015	12:00		
jbs01304	DJ00071.D	VSTD010	10/05/2015	12:46		
jbs01304	DJ00072.D	VBLKD88	10/05/2015	13:38	D1527830AA	
jbs01304	DJ00073.D	VBLKD88	10/05/2015	14:24	D1527830AA	
jeb07445	DJ00074.D	LCSD88	10/05/2015	15:16	D1527830AA	
jeb07445	DJ00075.D	LCSDD88	10/05/2015	16:02	D1527830AA	
jeb07445	DJ00076.D	8064547	10/05/2015	17:05	D1527830AA	100
jeb07445	DJ00077.D	8060548	10/05/2015	17:55	D1527830AA	
jeb07445	DJ00078.D	8060549	10/05/2015	18:45	D1527830AA	
jeb07445	DJ00079.D	8060550	10/05/2015	19:35	D1527830AA	
jeb07445	DJ00080.D	8060551	10/05/2015	20:24	D1527830AA	
jeb07445	DJ00081.D	8060552	10/05/2015	21:13	D1527830AA	100
jeb07445	DJ00082.D	8060553	10/05/2015	22:03	D1527830AA	
jeb07445	DJ00083.D	8060554	10/05/2015	22:49	D1527830AA	
jeb07445	DJ00084.D	8064885	10/05/2015	23:39	D1527830AA	
jeb07445	DJ00085.D	8064886	10/06/2015	00:28	D1527830AA	
jeb07445	DJ00086.D	8064887	10/06/2015	01:18	D1527830AA	
jeb07445	DJ00087.D	8065067	10/06/2015	02:01	D1527830AA	100
jeb07445	DJ00088.D	8065278	10/06/2015	02:51	D1527830AA	
jeb07445	DJ00089.D	8065279	10/06/2015	03:40	D1527830AA	
jeb07445	DJ00090.D	8065280	10/06/2015	04:24	D1527830AA	
jeb07445	DJ00091.D	8065281	10/06/2015	05:13	D1527830AA	
jeb07445	DJ00092.D	8065282	10/06/2015	06:03	D1527830AA	100
jeb07445	DJ00093.D	8065283	10/06/2015	06:52	D1527830AA	
jeb07445	DJ00094.D	8065284	10/06/2015	07:35	D1527830AA	
jeb07445	DJ00095.D	8065285	10/06/2015	08:24	D1527830AA	100
jeb07445	DJ00096.D	8060549	10/06/2015	09:14	D1527830AA	
jeb07445	DJ00097.D	8060552DL	10/06/2015	09:58	D1527830AA	100
jeb07445	DJ00098.D	8064886	10/06/2015	10:48	D1527830AA	
jeb07445	DJ00099.D	8064887	10/06/2015	11:37	D1527830AA	

runlog-ICAL

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP10145 **HP #04**

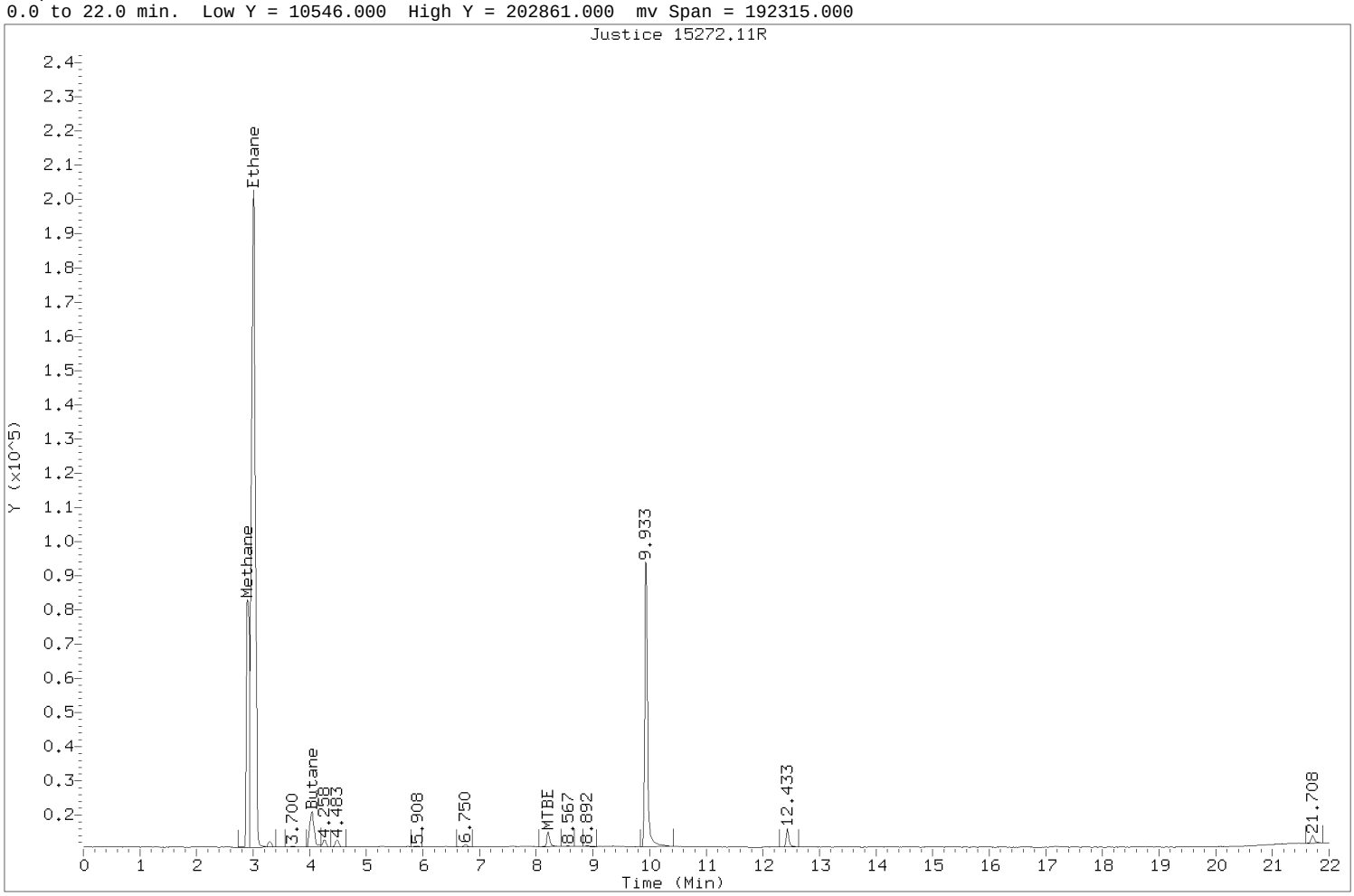
Data Directory Path is - C:\msdchem\1\data\15oct01\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	DJ00000.D	BFB50NG	10/01/2015	11:17		
jbs01304	DJ00001.D	VSTD0.5	10/01/2015	11:47		
jbs01304	DJ00002.D	VSTD0.5	10/01/2015	12:32		
jbs01304	DJ00003.D	VSTD001	10/01/2015	13:15		
jbs01304	DJ00004.D	VSTD002	10/01/2015	13:58		
jbs01304	DJ00005.D	VSTD005	10/01/2015	14:42		
jbs01304	DJ00006.D	VSTD010	10/01/2015	15:28		
jbs01304	DJ00007.D	VSTD025	10/01/2015	16:12		
jbs01304	DJ00008.D	VSTD070	10/01/2015	17:08		
jeb07445	DJ00009.D	VBLKD86	10/01/2015	18:03	D1527430AA	
jeb07445	DJ00010.D	VBLKD86	10/01/2015	18:49	D1527430AA	
jeb07445	DJ00011.D	VBLKD86	10/01/2015	19:41	D1527430AA	
jeb07445	DJ00012.D	LCSD86	10/01/2015	20:58	D1527430AA	
jeb07445	DJ00013.D	LCSDD86	10/01/2015	21:44	D1527430AA	
jeb07445	DJ00014.D	LCSD86	10/01/2015	22:29	D1527430AA	
jeb07445	DJ00015.D	LCSDD86	10/01/2015	23:15	D1527430AA	
jeb07445	DJ00016.D	MDL0.5	10/02/2015	00:01	D1527430AA	
jeb07445	DJ00017.D	MDL0.2	10/02/2015	00:44	D1527430AA	

Screening Data

Volatile Organics in Air by GC/MS

File = /chem/A58309.i/15sep29.b/15272-11R.d Date printed = 09/29/2015 Time = 16:28
Sample Name = 8065067 BC251A +PRE
0.0 to 22.0 min. Low Y = 10546.000 High Y = 202861.000 mv Span = 192315.000

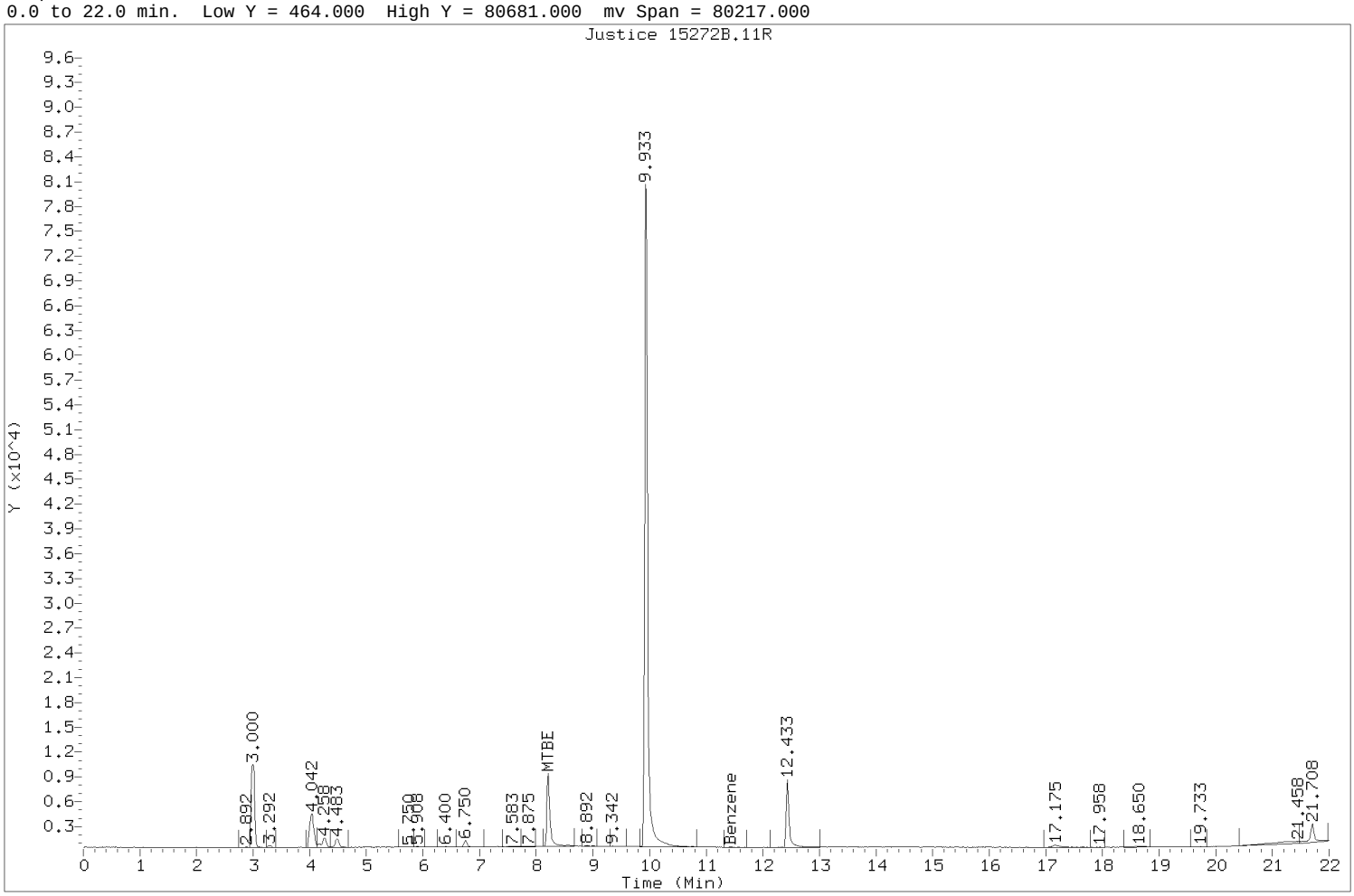


Lancaster Laboratories
Analysis Data Sheet
ADS07818 Analysis:
Sample No:
Lab Sample: 8065067 BC251A +PRE
Date Analyzed: 29-SEP-2015 15:58
Nominal Vol: 100 uL
Instr. ID: A58309--FID
Lab File ID: /chem/A58309.i/15sep29.b/15272-11R.d
Calibration File: /chem/A58309.i/15sep29.b/gc_fid.m
Calibration Version: 24-SEP-2015 11:04

Ret Time (min)	Peak Area	Peak Name	Amount ppm
2.900	271110	Methane	170.7148
3.008	929066	Ethane	299.9104
3.700	2219		
4.042	58048	Butane	9.7470
4.258	9213		
4.483	9121		
5.908	1776		
6.750	3253		
8.208	17082	MTBE	0.0000
8.567	1336		
8.892	1378		
9.933	286057		
12.433	18182		
21.708	9907		

Total Area: 1617748.5000

File = /chem/A58309.i/15sep29.b/15272B-11R.d Date printed = 09/29/2015 Time = 16:28
Sample Name = 8065067 BC251A +PRE
0.0 to 22.0 min. Low Y = 464.000 High Y = 80681.000 mv Span = 80217.000



Lancaster Laboratories
Analysis Data Sheet
ADS07818 Analysis:
Sample No:
Lab Sample: 8065067 BC251A +PRE
Date Analyzed: 29-SEP-2015 15:58
Nominal Vol: 100 uL
Instr. ID: A58309--PID
Lab File ID: /chem/A58309.i/15sep29.b/15272B-11R.d
Calibration File: /chem/A58309.i/15sep29.b/gc_pid.m
Calibration Version: 14-AUG-2015 11:02

Ret Time (min)	Peak Area	Peak Name	Amount ppm
2.892	257		
3.000	44810		
3.292	967		
4.042	21906		
4.258	7047		
4.483	4992		
5.750	398		
5.908	400		
6.400	455		
6.750	3583		
7.583	647		
7.875	448		
8.208	35608	MTBE	10.4586
8.892	631		
9.342	340		

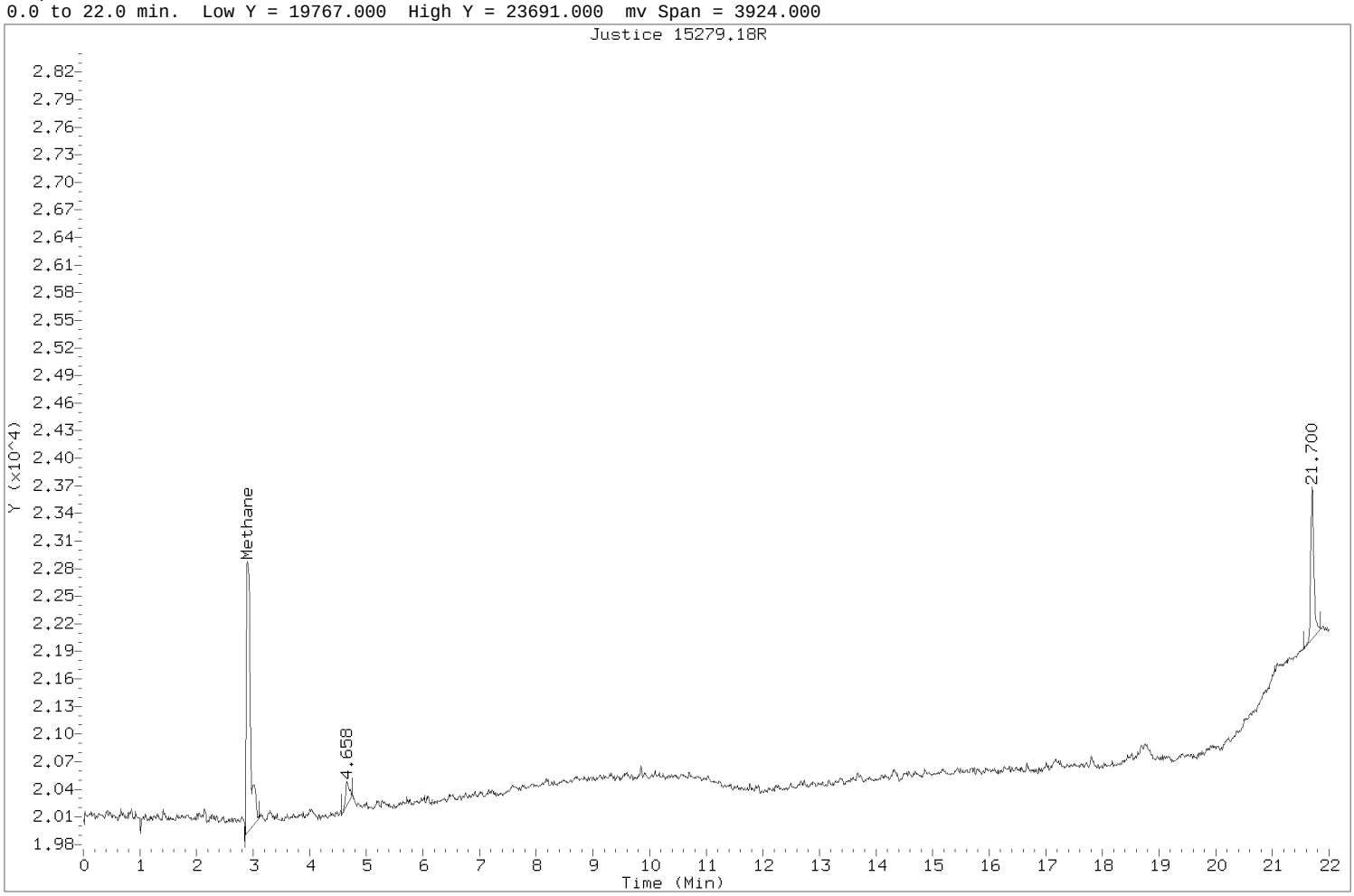
Lancaster Laboratories
Analysis Data Sheet
ADS07818 Analysis:
Sample No:
Lab Sample: 8065067 BC251A +PRE
Date Analyzed: 29-SEP-2015 15:58
Nominal Vol: 100 uL
Instr. ID: A58309--PID
Lab File ID: /chem/A58309.i/15sep29.b/15272B-11R.d
Calibration File: /chem/A58309.i/15sep29.b/gc_pid.m
Calibration Version: 14-AUG-2015 11:02

Ret Time (min)	Peak Area	Peak Name	Amount ppm
9.933	294933		
11.433	310	Benzene	0.05452
12.433	30532		
17.175	3310		
17.958	286		
18.650	1408		
19.733	298		
21.458	8543		
21.708	12875		

Total Area: 474982.5000

Date printed = 09/29/2015 Time = 16:28

File = /chem/A58309.i/15oct06.b/15279-18R.d Date printed = 10/06/2015 Time = 22:48
Sample Name = 8065068 DF2 BC250A +PRE
0.0 to 22.0 min. Low Y = 19767.000 High Y = 23691.000 mv Span = 3924.000



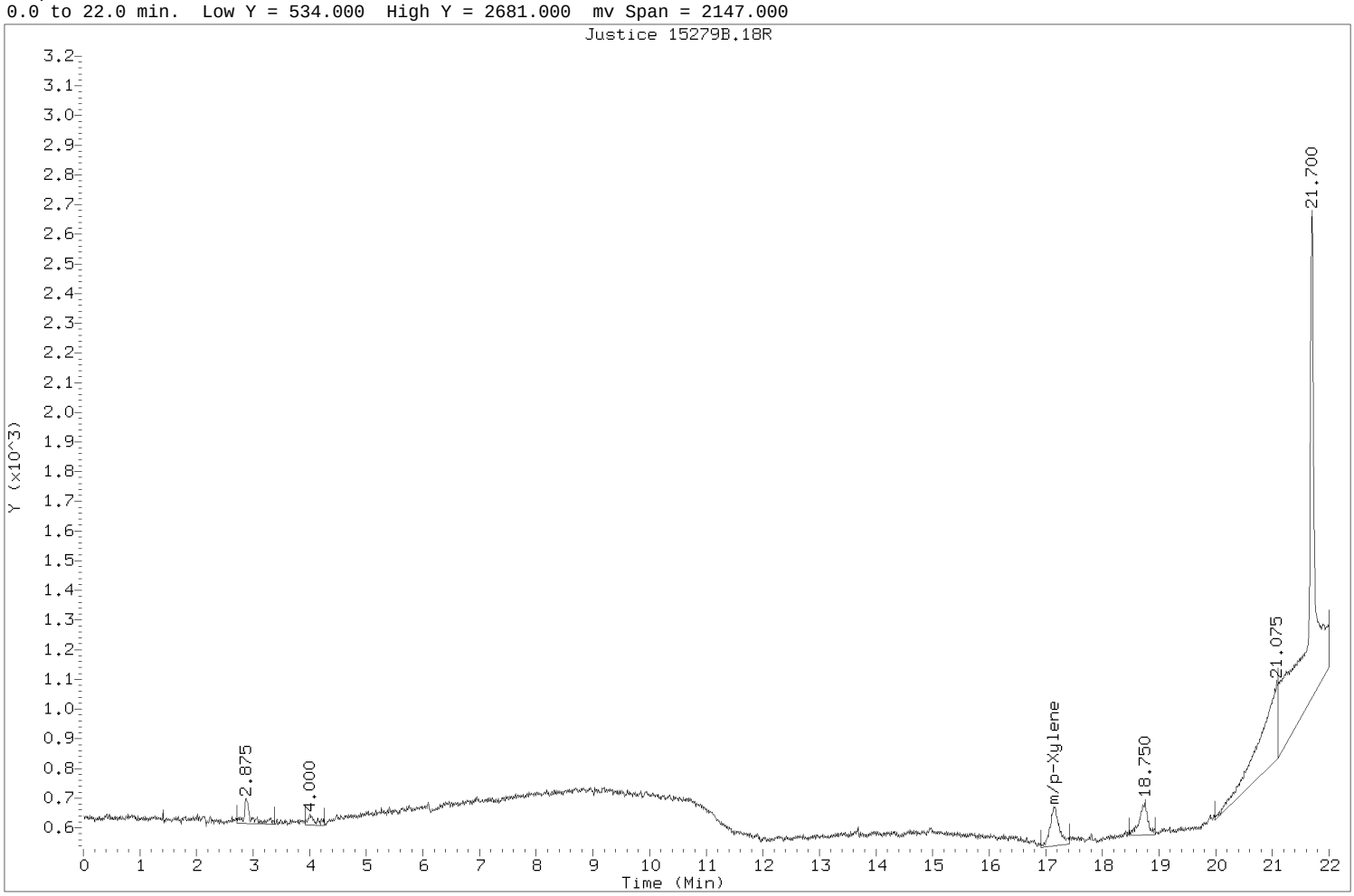
Lancaster Laboratories
Analysis Data Sheet
ADS07818 Analysis:
Sample No:
Lab Sample: 8065068 DF2 BC250A +PRE
Date Analyzed: 06-OCT-2015 22:16
Nominal Vol: 100 uL
Instr. ID: A58309--FID
Lab File ID: /chem/A58309.i/15oct06.b/15279-18R.d
Calibration File: /chem/A58309.i/15oct06.b/gc_fid.m
Calibration Version: 06-OCT-2015 11:49

Ret Time (min)	Peak Area	Peak Name	Amount ppm
2.900	15154	Methane	9.0751
4.658	1157		
21.700	6402		

Total Area: 22712.2500

Date printed = 10/06/2015 Time = 22:48

File = /chem/A58309.i/15oct06.b/15279B-18R.d Date printed = 10/06/2015 Time = 22:48
Sample Name = 8065068 DF2 BC250A +PRE
0.0 to 22.0 min. Low Y = 534.000 High Y = 2681.000 mv Span = 2147.000



Lancaster Laboratories
Analysis Data Sheet
ADS07818 Analysis:
Sample No:
Lab Sample: 8065068 DF2 BC250A +PRE
Date Analyzed: 06-OCT-2015 22:16
Nominal Vol: 100 uL
Instr. ID: A58309--PID
Lab File ID: /chem/A58309.i/15oct06.b/15279B-18R.d
Calibration File: /chem/A58309.i/15oct06.b/gc_pid.m
Calibration Version: 06-OCT-2015 11:49

Ret Time (min)	Peak Area	Peak Name	Amount ppm
2.875	743		
4.000	341		
17.142	1520	m/p-Xylene	0.5636
18.050	1520	Xylene (total)	0.5636
18.750	1141		
21.075	5918		
21.700	15968		

Total Area: 27151.7500

Canister Dilution Calc/Pressure Gauge Readings

Volatile Organics in Air by GC/MS

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Summa Sample Prep Worksheet

Sample	Can_ID	Initial Pressure	Units	Final Pressure (PSIG)	Dilution Factor	SDG
8065067	912	-5.1	"Hg	9.7	2	SSX07
8065068	1165	-18.9	"Hg	7.0	4	SSX07

Clean Canister Certification Data

Volatile Organics in Air by GC/MS

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Cleaning Data Summary
SDG# SSX07

Sample #	Can ID	Certified File	Instrument #
8065067	912	ci00182	HP09464
8065068	1165	ci00179	HP09464

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP09464 **HP #03**

Data Directory Path is - C:\msdchem\1\data\15sep03\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jeb07445	CI00080.D	50NGBFB	09/03/2015	19:34		
jeb07445	CI00081.D	VSTD001	09/03/2015	20:15		
jeb07445	CI00082.D	VSTD001	09/03/2015	20:58		
jeb07445	CI00083.D	VSTD002	09/03/2015	21:41		
jeb07445	CI00084.D	VSTD005	09/03/2015	22:23		
jeb07445	CI00085.D	VSTD010	09/03/2015	23:07		
jeb07445	CI00086.D	VSTD025	09/03/2015	23:50		
jeb07445	CI00087.D	VSTD070	09/04/2015	00:34		
jeb07445	CI00088.D	VBLKC75	09/04/2015	01:17	C1524630AA	
jeb07445	CI00089.D	VBLKC75	09/04/2015	02:01	C1524630AA	
jeb07445	CI00090.D	LCSC75	09/04/2015	02:45	C1524630AA	
jeb07445	CI00091.D	LCSC75	09/04/2015	03:28	C1524630AA	
jeb07445	CI00092.D	LCSC75	09/04/2015	04:12	C1524630AA	
jeb07445	CI00093.D	mdlv0.5	09/04/2015	04:56	C1524630AA	
jeb07445	CI00094.D	mdlv0.2	09/04/2015	05:38	C1524630AA	
jeb07445	CI00095.D	VBLKC75	09/04/2015	09:38	C1524630AA	
jeb07445	CI00096.D	VBLKC75	09/04/2015	10:29	C1524630AA	
jeb07445	CI00097.D	LCSC75	09/04/2015	11:20	C1524630AA	
jeb07445	CI00098.D	LCSC75	09/04/2015	12:04	C1524630AA	
jeb07445	CI00099.D	LCSC75	09/04/2015	12:57	C1524630AA	
jeb07445	CI00100.D	LCSC75	09/04/2015	13:46	C1524630AA	
jeb07445	CI00101.D	8007849	09/04/2015	15:05	C1524630AA	
jeb07445	CI00102.D	8007851	09/04/2015	15:51	C1524630AA	
jeb07445	CI00103.D	8002349	09/04/2015	16:37	C1524630AA	
jeb07445	CI00104.D	8002350	09/04/2015	17:24	C1524630AA	
jeb07445	CI00105.D	VBLKC75	09/04/2015	18:07	C1524630AA	
jeb07445	CI00106.D	VBLKC75	09/04/2015	18:50	C1524630AA	
jeb07445	CI00107.D	VBLKC75	09/04/2015	19:35	C1524630AA	
jeb07445	CI00108.D	VBLKC75	09/04/2015	20:18	C1524630AA	
jeb07445	CI00109.D	VBLKC75	09/04/2015	21:03	C1524630AA	
jeb07445	CI00110.D	VBLKC75	09/04/2015	21:47	C1524630AA	
jeb07445	CI00111.D	VBLKC75	09/04/2015	22:30	C1524630AA	
jeb07445	CI00112.D	VBLKC75	09/04/2015	23:13	C1524630AA	
jeb07445	CI00113.D	VBLKC75	09/04/2015	23:57	C1524630AA	
jeb07445	CI00114.D	VBLKC75	09/05/2015	00:41	C1524630AA	
jeb07445	CI00115.D	VBLKC75	09/05/2015	01:25	C1524630AA	
jeb07445	CI00116.D	VBLKC75	09/05/2015	02:08	C1524630AA	

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC75
Canister ID:	N/A	Lab File ID:	ci00096.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/04/2015
Injection Volume:	250 cc	Analyzed Time:	10:29
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
115-07-1	Propene	0.50	U
75-71-8	Dichlorodifluoromethane	0.20	U
75-45-6	Chlorodifluoromethane	0.20	U
76-14-2	Freon 114	0.20	U
74-87-3	Chloromethane	0.20	U
75-01-4	Vinyl Chloride	0.20	U
106-99-0	1,3-Butadiene	0.40	U
74-83-9	Bromomethane	0.20	U
75-00-3	Chloroethane	0.20	U
593-60-2	Bromoethene	0.40	U
75-43-4	Dichlorofluoromethane	0.20	U
75-69-4	Trichlorofluoromethane	0.20	U
109-66-0	Pentane	0.50	U
64-17-5	Ethanol	0.50	U
107-02-8	Acrolein	1.0	U
75-35-4	1,1-Dichloroethene	0.20	U
76-13-1	Freon 113	0.50	U
67-64-1	Acetone	0.50	U
74-88-4	Methyl Iodide	0.20	U
75-15-0	Carbon Disulfide	0.50	U
67-63-0	Isopropanol	0.50	U
75-05-8	Acetonitrile	0.50	U
107-05-1	3-Chloropropene	0.20	U
75-09-2	Methylene Chloride	0.20	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC75
Canister ID:	N/A	Lab File ID:	ci00096.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/04/2015
Injection Volume:	250 cc	Analyzed Time:	10:29
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-65-0	tert-Butyl Alcohol	0.50	U
107-13-1	Acrylonitrile	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.20	U
1634-04-4	Methyl t-Butyl Ether	0.20	U
110-54-3	Hexane	0.20	U
75-34-3	1,1-Dichloroethane	0.20	U
108-05-4	Vinyl Acetate	1.0	U
108-20-3	Di-Isopropyl Ether	0.20	U
637-92-3	Ethyl Tert-Butyl Ether	0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	U
540-59-0	1,2-Dichloroethene (total)	0.20	U
78-93-3	2-Butanone	0.50	U
141-78-6	Ethyl Acetate	0.50	U
96-33-3	Methyl Acrylate	0.20	U
109-99-9	Tetrahydrofuran	0.50	U
67-66-3	Chloroform	0.20	U
71-55-6	1,1,1-Trichloroethane	0.20	U
110-82-7	Cyclohexane	0.20	U
56-23-5	Carbon Tetrachloride	0.20	U
71-43-2	Benzene	0.20	U
107-06-2	1,2-Dichloroethane	0.20	U
540-84-1	Isooctane	0.20	U
994-05-8	Tert-Amyl Methyl Ether	0.20	U
142-82-5	Heptane	0.50	U

Abbreviations:
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J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC75
Canister ID:	N/A	Lab File ID:	ci00096.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/04/2015
Injection Volume:	250 cc	Analyzed Time:	10:29
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
79-01-6	Trichloroethene	0.20	U
140-88-5	Ethyl Acrylate	0.20	U
78-87-5	1,2-Dichloropropane	0.20	U
74-95-3	Dibromomethane	0.20	U
123-91-1	1,4-Dioxane	0.50	U
80-62-6	Methyl Methacrylate	0.20	U
75-27-4	Bromodichloromethane	0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	U
108-10-1	4-Methyl-2-Pentanone	0.50	U
108-88-3	Toluene	0.20	U
111-65-9	Octane	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.20	U
542-75-6	1,3-Dichloropropene (total)	0.20	U
97-63-2	Ethyl Methacrylate	0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	U
127-18-4	Tetrachloroethene	0.20	U
591-78-6	2-Hexanone	0.50	U
124-48-1	Dibromochloromethane	0.20	U
106-93-4	1,2-Dibromoethane	0.20	U
108-90-7	Chlorobenzene	0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U
100-41-4	Ethylbenzene	0.20	U
179601-23-1	m/p-Xylene	0.20	U
95-47-6	o-Xylene	0.20	U

Abbreviations:
U = The compound is less than the limit being reported.
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E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC75
Canister ID:	N/A	Lab File ID:	ci00096.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/04/2015
Injection Volume:	250 cc	Analyzed Time:	10:29
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
1330-20-7	Xylene (total)	0.20	U
100-42-5	Styrene	0.20	U
75-25-2	Bromoform	0.20	U
98-82-8	Cumene	0.20	U
108-86-1	Bromobenzene	0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U
96-18-4	1,2,3-Trichloropropane	0.20	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.20	U
622-96-8	4-Ethyltoluene	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
98-83-9	Alpha Methyl Styrene	0.20	U
98-06-6	tert-Butylbenzene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
135-98-8	sec-Butylbenzene	0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	U
99-87-6	p-Isopropyltoluene	0.20	U
100-44-7	Benzyl Chloride	0.50	U
95-50-1	1,2-Dichlorobenzene	0.20	U
104-51-8	n-Butylbenzene	0.20	U
67-72-1	Hexachloroethane	0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC75
Canister ID:	N/A	Lab File ID:	ci00096.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/04/2015
Injection Volume:	250 cc	Analyzed Time:	10:29
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
87-68-3	Hexachlorobutadiene	0.40	U
91-20-3	Naphthalene	0.40	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 09464 LCS File ID: ci00098.d LCSD File ID: ci00100.d

Batch: C1524630AA LCS Injected: 09/04/2015 LCSD Injected: 09/04/2015

Method: EPA TO-15 LCS Client ID: LCSC75 LCSD Client ID: LCSDC75

Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Propene	11.00	10.15	9.25	92	84	41-129	9	25	YES
Dichlorodifluoromethane	10.00	9.59	8.39	96	84	61-149	13	25	YES
Freon 114	10.20	10.00	8.78	98	86	63-123	13	25	YES
Chloromethane	10.30	8.55	7.70	83	75	54-118	10	25	YES
Vinyl Chloride	10.20	10.20	9.16	100	90	70-130	11	25	YES
1,3-Butadiene	10.50	9.60	8.66	91	83	57-138	10	25	YES
Bromomethane	10.10	9.19	8.04	91	80	70-130	13	25	YES
Chloroethane	10.00	8.88	7.90	89	79	63-119	12	25	YES
Trichlorofluoromethane	10.00	9.58	8.26	96	83	70-130	15	25	YES
Ethanol	10.60	7.54	6.65	71	63	10-175	13	25	YES
Acrolein	10.90	10.62	9.63	97	88	43-141	10	25	YES
1,1-Dichloroethene	10.60	10.60	9.36	100	88	61-128	12	25	YES
Freon 113	10.50	9.31	8.22	89	78	63-114	12	25	YES
Acetone	10.70	11.29	9.83	105	92	61-134	14	25	YES
Carbon Disulfide	10.20	9.50	8.39	93	82	55-121	12	25	YES
Isopropanol	11.00	9.92	8.60	90	78	55-152	14	25	YES
Methylene Chloride	10.60	10.81	9.43	102	89	70-130	14	25	YES
trans-1,2-Dichloroethene	10.50	9.15	7.96	87	76	66-121	14	25	YES
Methyl t-Butyl Ether	10.70	11.11	9.91	104	93	52-129	11	25	YES
Hexane	10.80	9.97	9.02	92	84	63-117	10	25	YES
1,1-Dichloroethane	10.50	8.88	8.07	85	77	67-124	10	25	YES
Vinyl Acetate	10.80	12.29	11.47	114	106	45-162	7	25	YES
cis-1,2-Dichloroethene	10.60	8.71	7.72	82	73	65-121	12	25	YES
2-Butanone	10.80	11.28	10.06	104	93	60-135	11	25	YES
Ethyl Acetate	10.60	9.65	8.83	91	83	51-131	9	25	YES
Tetrahydrofuran	10.90	11.26	10.37	103	95	53-134	8	25	YES
Chloroform	10.60	9.16	8.05	86	76	70-130	13	25	YES
1,1,1-Trichloroethane	10.50	9.27	8.19	88	78	70-130	12	25	YES
Cyclohexane	10.60	10.34	9.21	98	87	63-123	12	25	YES
Carbon Tetrachloride	10.40	10.03	8.63	96	83	70-130	15	25	YES
Benzene	10.50	10.29	9.50	98	90	70-130	8	25	YES
1,2-Dichloroethane	10.50	10.23	9.30	97	89	70-130	9	25	YES
Heptane	10.70	10.42	9.45	97	88	56-123	10	25	YES
Trichloroethene	10.50	8.49	7.59	81	72	70-130	11	25	YES
1,2-Dichloropropane	10.70	9.93	9.10	93	85	70-130	9	25	YES
1,4-Dioxane	10.50	12.71	11.27	121	107	43-149	12	25	YES

COMMENTS:
Applies to Sample(s): 8007849

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FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 09464 LCS File ID: ci00098.d LCSD File ID: ci00100.d

Batch: C1524630AA LCS Injected: 09/04/2015 LCSD Injected: 09/04/2015

Method: EPA TO-15 LCS Client ID: LCSC75 LCSD Client ID: LCSDC75

Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Methyl Methacrylate	10.30	11.71	10.47	114	102	59-146	11	25	YES
Bromodichloromethane	10.50	10.36	9.03	99	86	62-129	14	25	YES
cis-1,3-Dichloropropene	10.90	12.05	11.32	111	104	64-136	6	25	YES
4-Methyl-2-Pentanone	10.80	13.12	11.50	121	107	53-140	13	25	YES
Toluene	10.70	10.72	11.11	100	104	70-130	4	25	YES
trans-1,3-Dichloropropene	10.00	9.73	9.91	97	99	61-126	2	25	YES
1,1,2-Trichloroethane	10.70	9.68	9.88	90	92	59-131	2	25	YES
Tetrachloroethene	10.40	8.00	8.05	77	77	70-130	1	25	YES
2-Hexanone	11.00	12.57	12.45	114	113	47-150	1	25	YES
Dibromochloromethane	10.80	9.91	9.83	92	91	65-127	1	25	YES
1,2-Dibromoethane	10.50	10.18	10.27	97	98	65-126	1	25	YES
Chlorobenzene	10.80	10.20	10.25	94	95	70-130	1	25	YES
Ethylbenzene	10.80	11.00	11.32	102	105	70-130	3	25	YES
m/p-Xylene	21.20	22.05	21.32	104	101	70-130	3	25	YES
o-Xylene	10.90	10.94	10.98	100	101	70-130	0	25	YES
Xylene (total)	32.10	32.98	32.31	103	101	70-130	2	25	YES
Styrene	10.80	11.05	11.06	102	102	64-130	0	25	YES
Bromoform	10.60	10.70	10.52	101	99	64-141	2	25	YES
1,1,2,2-Tetrachloroethane	10.90	10.10	10.14	93	93	58-133	0	25	YES
4-Ethyltoluene	10.70	10.01	10.30	94	96	59-126	3	25	YES
1,3,5-Trimethylbenzene	10.70	10.05	9.65	94	90	61-132	4	25	YES
1,2,4-Trimethylbenzene	10.80	9.55	9.64	88	89	60-128	1	25	YES
1,3-Dichlorobenzene	10.90	9.55	9.74	88	89	63-125	2	25	YES
1,4-Dichlorobenzene	10.70	9.29	9.46	87	88	63-127	2	25	YES
Benzyl Chloride	10.30	9.92	10.01	96	97	50-160	1	25	YES
1,2-Dichlorobenzene	10.80	9.41	9.46	87	88	62-132	0	25	YES
1,2,4-Trichlorobenzene	11.00	8.30	7.91	75	72	37-119	5	25	YES
Hexachlorobutadiene	11.00	8.33	8.01	76	73	43-120	4	25	YES
Naphthalene	10.40	9.73	9.45	94	91	35-153	3	25	YES

COMMENTS:
Applies to Sample(s): 8007849

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FORM 04
VOLATILE ORGANICS IN AIR
METHOD BLANK SUMMARY

SDG No.:

Lab Sample ID: VBLKC75

Lab File ID: ci00096.d

Instrument ID: 09464

Analyzed Date: 09/04/2015

Analyzed Time: 10:29

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS AND LCSD:

LAB SAMPLE ID	LAB FILE ID	CANISTER ID	DATE ANALYZED	TIME ANALYZED
LCSC75	ci00098.d	N/A	09/04/2015	12:04
LCSDC75	ci00100.d	N/A	09/04/2015	13:46
8007849	ci00101.d	526	09/04/2015	15:05

COMMENTS:

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FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: ci00080.d

BFB Injection Date: 09/03/2015

Instrument ID: 09464

BFB Injection Time: 19:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	22.4
75	30.0% - 66.0% of mass 95	55.6
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.8
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	53.1
175	4.0% - 9.0% of mass 174	4.0 (7.4)
176	93.0% - 101.0% of mass 174	50.2 (94.5)
177	5.0% - 9.0% of mass 176	3.3 (6.6)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD001	ci00082.d	09/03/2015	20:58
VSTD002	ci00083.d	09/03/2015	21:41
VSTD005	ci00084.d	09/03/2015	22:23
VSTD010	ci00085.d	09/03/2015	23:07
VSTD025	ci00086.d	09/03/2015	23:50
VSTD070	ci00087.d	09/04/2015	00:34
mdlv0.5	ci00093.d	09/04/2015	04:56
mdlv0.2	ci00094.d	09/04/2015	05:38
VBLKC75	ci00096.d	09/04/2015	10:29
LCSC75	ci00098.d	09/04/2015	12:04
LCSDC75	ci00100.d	09/04/2015	13:46
8007849	ci00101.d	09/04/2015	15:05

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FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/03/2015 Calibration End Date: 09/04/2015

Calibration Start Time: 20:58 Calibration End Time: 00:34

LAB FILE IDs:
RRF 1 = ci00082.d RRF 2 = ci00083.d RRF 5 = ci00084.d RRF 10 = ci00085.d RRF 25 = ci00086.d
RRF 70 = ci00087.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
Propene	2.695	2.167	2.047	1.691	1.548	1.061	1.868	30	AVG
Dichlorodifluoromethane	6.333	5.249	5.060	4.106	3.606	****	4.871	22	AVG
Chlorodifluoromethane	5.187	4.201	3.979	3.196	2.842	****	3.881	24	AVG
Freon 114	5.665	4.737	4.546	3.757	3.546	****	4.450	19	AVG
Chloromethane	1.209	0.961	0.900	0.723	0.703	0.582	0.846	27	AVG
Vinyl Chloride	3.194	2.640	2.512	2.041	1.953	1.416	2.293	27	AVG
1,3-Butadiene	2.418	2.029	1.976	1.638	1.572	****	1.927	18	AVG
Bromomethane	2.208	1.796	1.763	1.414	1.430	****	1.722	19	AVG
Chloroethane	1.838	1.446	1.413	1.136	1.151	****	1.397	20	AVG
Bromoethene	1.850	1.510	1.473	1.235	1.358	1.222	1.441	16	AVG
Dichlorofluoromethane	6.608	5.412	4.931	4.000	3.847	****	4.960	23	AVG
Trichlorofluoromethane	6.321	5.201	4.941	3.941	3.717	****	4.824	22	AVG
Pentane	5.918	4.925	4.743	3.756	3.445	****	4.557	22	AVG
Ethanol	1.352	1.065	1.053	0.859	0.729	****	1.012	23	AVG
Freon123a	5.884	4.343	3.730	3.212	3.156	****	4.065	28	AVG
Acrolein	0.607	0.371	0.444	0.484	0.518	****	0.485	18	AVG
1,1-Dichloroethene	4.942	4.120	3.963	3.185	3.094	2.088	3.565	28	AVG
Freon 113	2.941	2.457	2.253	1.862	1.952	****	2.293	19	AVG
Acetone	2.380	1.752	1.746	1.692	1.266	1.319	1.693	24	AVG
Methyl Iodide	3.744	3.069	3.028	2.375	2.509	****	2.945	18	AVG
Carbon Disulfide	8.163	6.728	6.534	5.063	4.692	****	6.236	22	AVG
Isopropanol	3.562	2.820	2.950	2.434	2.298	****	2.813	18	AVG
Acetonitrile *	0.879	0.329	0.419	0.507	0.439	0.498	0.512	37	AVG *

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/03/2015 Calibration End Date: 09/04/2015

Calibration Start Time: 20:58 Calibration End Time: 00:34

LAB FILE IDs:
RRF 1 = ci00082.d RRF 2 = ci00083.d RRF 5 = ci00084.d RRF 10 = ci00085.d RRF 25 = ci00086.d
RRF 70 = ci00087.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
3-Chloropropene	1.339	0.993	0.876	0.754	0.791	****	0.950	25	AVG
Methylene Chloride	2.363	1.939	1.719	1.367	1.326	1.101	1.636	28	AVG
tert-Butyl Alcohol	3.450	2.747	2.914	2.338	2.338	****	2.757	17	AVG
Acrylonitrile	1.696	1.083	1.169	1.257	1.121	****	1.265	20	AVG
trans-1,2-Dichloroethene	5.279	4.365	3.989	3.231	2.891	****	3.951	24	AVG
Methyl t-Butyl Ether	2.957	2.256	2.722	2.694	2.321	2.622	2.595	10	AVG
Hexane	3.619	2.986	2.753	2.527	2.496	2.169	2.758	18	AVG
1,1-Dichloroethane	4.971	3.832	3.257	2.931	2.771	2.272	3.339	29	AVG
Vinyl Acetate	0.137	0.096	0.127	0.180	0.169	****	0.142	24	AVG
Di-Isopropyl Ether	3.256	2.619	3.239	3.453	2.966	3.080	3.102	9	AVG
Ethyl Tert-Butyl Ether	2.406	1.749	2.387	2.454	2.268	****	2.253	13	AVG
cis-1,2-Dichloroethene	3.483	2.713	2.396	2.210	2.070	****	2.574	22	AVG
2-Butanone	0.462	0.371	0.437	0.415	0.339	0.479	0.417	13	AVG
Ethyl Acetate	0.246	0.192	0.226	0.229	0.193	****	0.217	11	AVG
Methyl Acrylate	1.873	1.372	1.662	1.792	1.514	****	1.642	12	AVG
Tetrahydrofuran	1.342	1.076	1.235	1.303	1.115	****	1.214	10	AVG
Chloroform	4.778	3.438	3.104	2.802	2.637	2.194	3.159	28	AVG
1,1,1-Trichloroethane	3.936	3.099	2.681	2.454	2.348	2.109	2.771	24	AVG
Cyclohexane	3.920	3.283	3.122	2.785	2.642	2.260	3.002	19	AVG
Carbon Tetrachloride	3.819	3.097	2.721	2.447	2.292	2.016	2.732	24	AVG
Benzene	1.810	1.737	1.423	1.471	0.999	1.082	1.420	23	AVG
1,2-Dichloroethane	1.029	0.984	0.801	0.794	0.514	0.602	0.787	26	AVG
Isooctane	2.839	3.070	2.737	2.789	1.921	1.624	2.497	23	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/03/2015 Calibration End Date: 09/04/2015

Calibration Start Time: 20:58 Calibration End Time: 00:34

LAB FILE IDs:
RRF 1 = ci00082.d RRF 2 = ci00083.d RRF 5 = ci00084.d RRF 10 = ci00085.d RRF 25 = ci00086.d
RRF 70 = ci00087.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
Tert-Amyl Methyl Ether	0.617	0.703	0.711	0.751	0.504	****	0.657	15	AVG
Heptane	1.342	1.315	1.189	1.210	0.834	0.800	1.115	21	AVG
Trichloroethene	0.727	0.745	0.547	0.504	0.395	****	0.584	26	AVG
Ethyl Acrylate	0.623	0.729	0.756	0.771	0.498	****	0.675	17	AVG
1,2-Dichloropropane	0.654	0.607	0.602	0.611	0.416	0.588	0.580	14	AVG
Dibromomethane	0.420	0.426	0.358	0.352	0.264	0.415	0.373	17	AVG
1,4-Dioxane	0.168	0.221	0.226	0.219	0.145	****	0.196	19	AVG
Methyl Methacrylate	0.311	0.356	0.359	0.367	0.234	****	0.325	17	AVG
Bromodichloromethane	1.291	1.355	1.222	1.137	0.799	0.878	1.114	20	AVG
cis-1,3-Dichloropropene	0.599	0.608	0.672	0.731	0.525	0.728	0.644	13	AVG
4-Methyl-2-Pentanone	0.749	1.037	1.105	1.034	0.698	0.839	0.910	19	AVG
Toluene	1.214	1.104	1.202	1.401	0.906	1.030	1.143	15	AVG
Octane	1.035	1.132	1.426	1.628	1.091	****	1.262	20	AVG
trans-1,3-Dichloropropene	0.655	0.666	0.722	0.794	0.543	0.688	0.678	12	AVG
Ethyl Methacrylate	0.429	0.539	0.606	0.641	0.486	****	0.540	16	AVG
1,1,2-Trichloroethane	0.453	0.465	0.492	0.531	0.367	0.534	0.474	13	AVG
Tetrachloroethene	0.601	0.583	0.537	0.571	0.463	0.664	0.570	12	AVG
2-Hexanone	0.909	1.031	1.182	1.161	0.773	****	1.011	17	AVG
Dibromochloromethane	0.579	0.647	0.669	0.696	0.513	0.680	0.631	11	AVG
1,2-Dibromoethane	0.691	0.702	0.710	0.760	0.533	0.700	0.683	11	AVG
Chlorobenzene	0.940	0.907	0.951	1.020	0.724	0.914	0.910	11	AVG
1,1,1,2-Tetrachloroethane	0.393	0.445	0.458	0.498	0.367	****	0.432	12	AVG
Ethylbenzene	1.040	1.110	1.268	1.577	1.080	1.209	1.214	16	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

Instrument ID: 09464 Calibration Start Date: 09/03/2015 Calibration End Date: 09/04/2015

Calibration Start Time: 20:58 Calibration End Time: 00:34

LAB FILE IDs:
RRF 1 = ci00082.d RRF 2 = ci00083.d RRF 5 = ci00084.d RRF 10 = ci00085.d RRF 25 = ci00086.d
RRF 70 = ci00087.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
m/p-Xylene	0.808	0.855	0.956	1.198	0.857	1.152	0.971	17	AVG
o-Xylene	0.849	0.916	1.013	1.285	0.911	1.184	1.026	17	AVG
Styrene	0.640	0.723	0.803	0.988	0.719	****	0.775	17	AVG
Bromoform	0.445	0.528	0.590	0.678	0.531	****	0.554	16	AVG
Cumene	0.901	1.000	1.079	1.464	1.062	****	1.101	19	AVG
Bromobenzene	0.368	0.398	0.415	0.494	0.364	****	0.408	13	AVG
1,1,2,2-Tetrachloroethane	0.998	1.094	1.107	1.252	0.849	****	1.060	14	AVG
1,2,3-Trichloropropane	0.226	0.250	0.247	0.285	0.192	****	0.240	14	AVG
n-Propylbenzene	0.276	0.297	0.307	0.409	0.302	****	0.318	16	AVG
2-Chlorotoluene	0.287	0.323	0.340	0.414	0.303	****	0.333	15	AVG
4-Ethyltoluene	1.055	1.128	1.200	1.533	1.081	****	1.199	16	AVG
1,3,5-Trimethylbenzene	0.927	1.008	0.934	1.274	0.917	****	1.012	15	AVG
Alpha Methyl Styrene	0.395	0.446	0.487	0.627	0.484	****	0.488	18	AVG
tert-Butylbenzene	0.737	0.805	0.820	1.079	0.826	****	0.853	15	AVG
1,2,4-Trimethylbenzene	0.966	1.061	1.073	1.312	0.950	****	1.072	13	AVG
sec-Butylbenzene	1.226	1.335	1.358	1.819	1.368	****	1.421	16	AVG
1,3-Dichlorobenzene	0.673	0.747	0.781	0.899	0.683	****	0.757	12	AVG
1,4-Dichlorobenzene	0.678	0.744	0.792	0.916	0.725	****	0.771	12	AVG
p-Isopropyltoluene	0.966	1.044	1.106	1.400	1.111	****	1.125	15	AVG
Benzyl Chloride	0.982	1.087	1.177	1.377	1.025	****	1.130	14	AVG
1,2-Dichlorobenzene	0.644	0.679	0.718	0.835	0.639	****	0.703	11	AVG
n-Butylbenzene	1.244	1.307	1.300	1.583	1.201	****	1.327	11	AVG
Hexachloroethane	0.344	0.400	0.421	0.517	0.438	****	0.424	15	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

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FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/03/2015 Calibration End Date: 09/04/2015

Calibration Start Time: 20:58 Calibration End Time: 00:34

LAB FILE IDs:
RRF 1 = ci00082.d RRF 2 = ci00083.d RRF 5 = ci00084.d RRF 10 = ci00085.d RRF 25 = ci00086.d
RRF 70 = ci00087.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
1,2-Dibromo-3-chloropropane	0.318	0.345	0.349	0.396	0.300	****	0.342	11	AVG
1,2,4-Trichlorobenzene	0.405	0.411	0.379	0.400	0.389	****	0.397	3	AVG
Hexachlorobutadiene	0.329	0.320	0.333	0.424	0.430	****	0.367	15	AVG
Naphthalene	1.049	1.092	1.076	1.093	0.904	****	1.043	8	AVG

Average % RSD: 18

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

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FORM 08
VOLATILE ORGANICS IN AIR
INSTRUMENT STANDARD AREA AND RETENTION TIME SUMMARY

SDG No.:

Lab Sample ID: VSTD010 Analyzed Date: 09/03/2015

Lab File ID: ci00085.d Analyzed Time: 23:07

Instrument ID: 09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	629399	7.23	1618895	9.22	1513887	15.55
UPPER LIMIT	881159	7.56	2266453	9.55	2119442	15.88
LOWER LIMIT	377639	6.90	971337	8.89	908332	15.22
LAB SAMPLE ID						
mdlv0.5	501901	7.24	1229272	9.23	1295906	15.55
mdlv0.2	509237	7.24	1227682	9.24	1313768	15.56
VBLKC75	489337	7.24	1686652	9.24	1681592	15.56
LCSC75	478092	7.23	1262882	9.22	1308224	15.55
LCSDC75	582185	7.23	1521207	9.23	1400700	15.55
8007849	605155	7.23	1959791	9.22	1866128	15.55

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.

Data File: /chem/HP09464.i/15sep03.b/ci00080.d

Date : 03-SEP-2015 19:34

Client ID: 50NGBFB

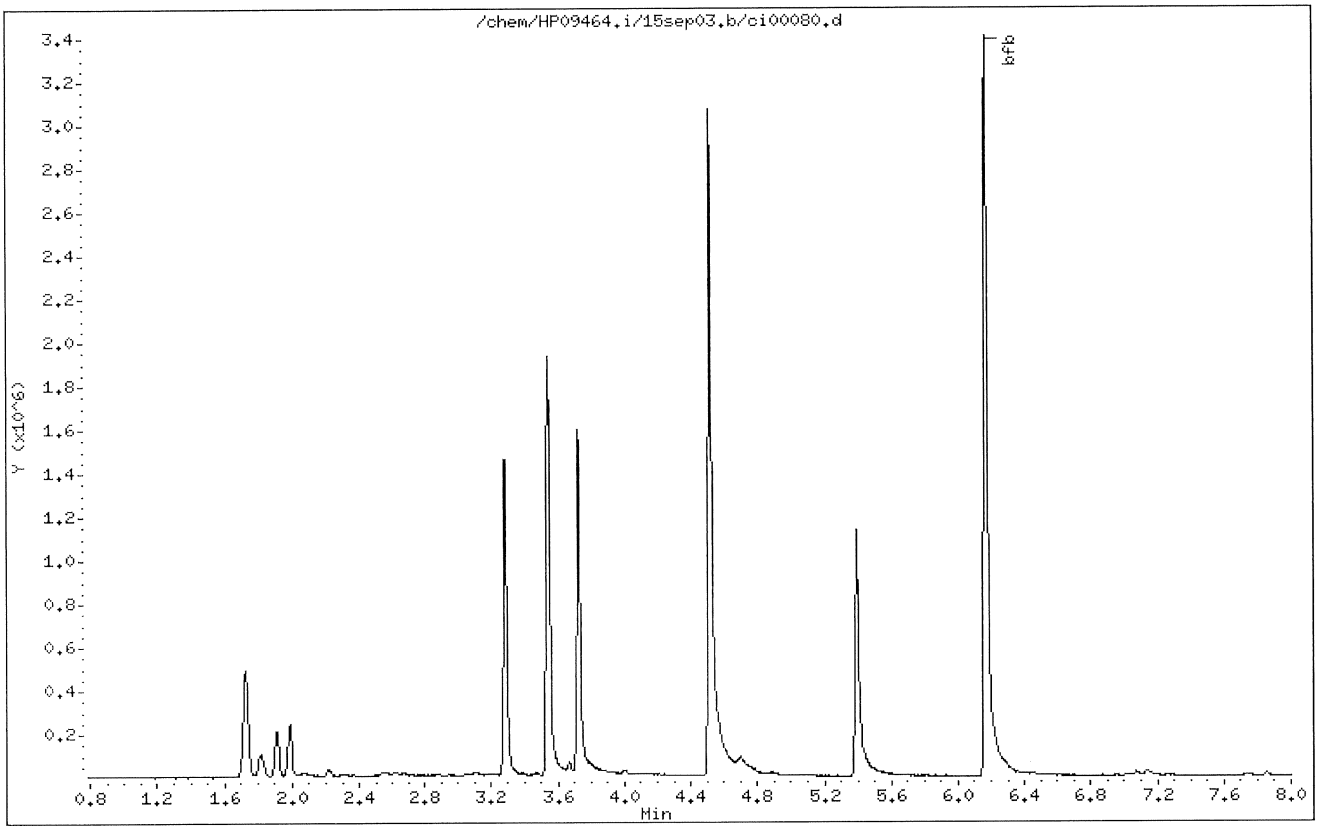
Instrument: HP09464.i

Sample Info: 50NGBFB:::BFB:0:::

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:51.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP09464.i/15sep03.b/ci00080.d

Date : 03-SEP-2015 19:34

Client ID: 50NGBFB

Instrument: HP09464.i

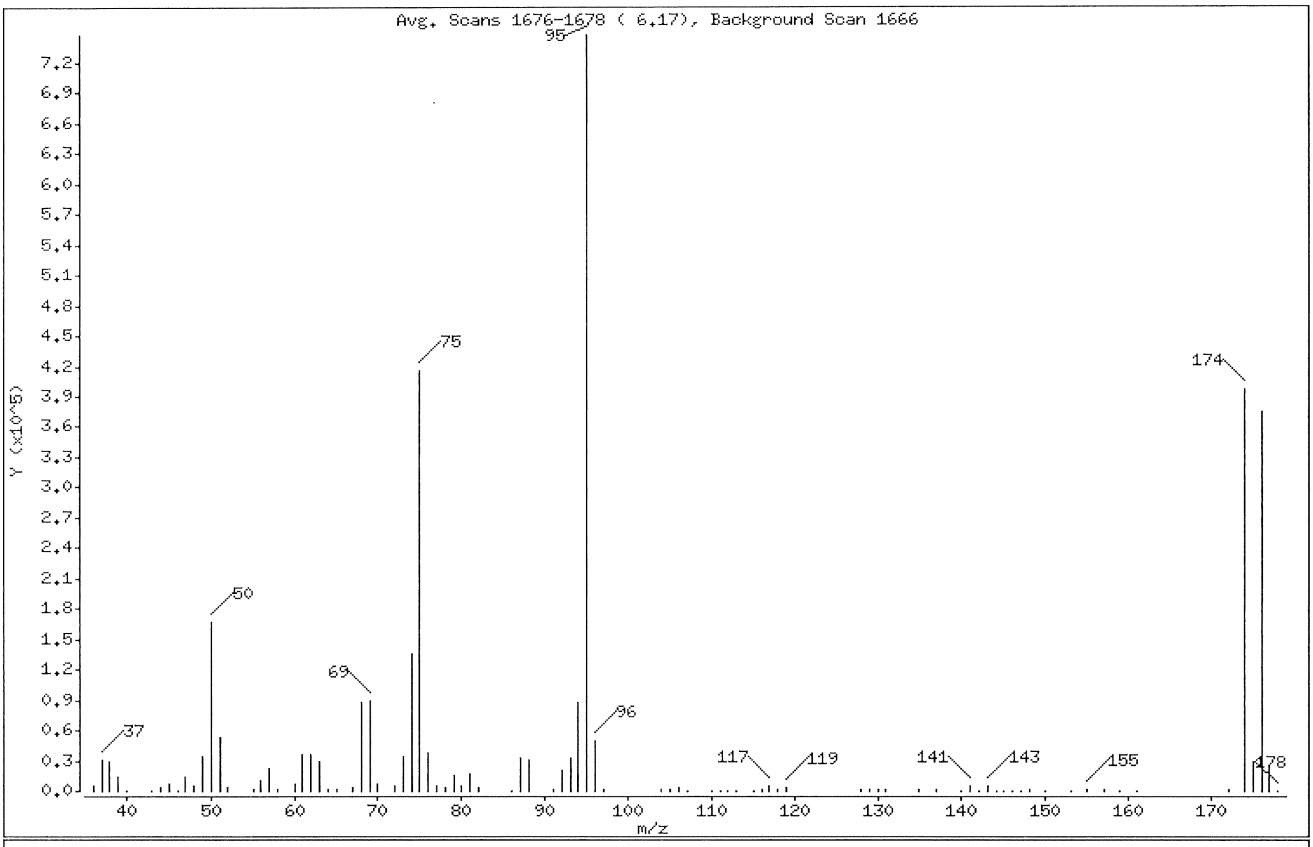
Sample Info: 50NGBFB:::BFB:0:::

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.38
75	30.00 - 66.00% of mass 95	55.63
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	53.13
175	4.00 - 9.00% of mass 174	3.95 (7.44)
176	93.00 - 101.00% of mass 174	50.21 (94.52)
177	5.00 - 9.00% of mass 176	3.32 (6.61)

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:51.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP09464.i/15sep03.b/ci00080.d

Date : 03-SEP-2015 19:34

Client ID: 50NGBFB

Instrument: HP09464.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25

Data File: ci00080.d
Spectrum: Avg. Scans 1676-1678 (6.17), Background Scan 1666
Location of Maximum: 95.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5488	64.00	2512	94.00	87656	140.00	401
37.00	31160	65.00	1314	95.00	747392	141.00	5177
38.00	29664	67.00	2616	96.00	50576	142.00	661
39.00	13288	68.00	87032	97.00	1690	143.00	5900
40.00	362	69.00	88528	104.00	2413	144.00	206
43.00	544	70.00	6973	105.00	1082	145.00	414
44.00	3127	72.00	4738	106.00	2749	146.00	697
45.00	6715	73.00	34848	107.00	416	147.00	204
46.00	696	74.00	135936	110.00	170	148.00	1583
47.00	12906	75.00	415808	111.00	369	150.00	702
48.00	4748	76.00	38016	112.00	194	153.00	366
49.00	34368	77.00	5000	113.00	194	155.00	1352
50.00	167232	78.00	3500	115.00	634	157.00	1087
51.00	53408	79.00	15444	116.00	2223	159.00	598
52.00	2647	80.00	4749	117.00	4804	161.00	661
55.00	1882	81.00	17160	118.00	2334	172.00	1054
56.00	11165	82.00	3630	119.00	3356	174.00	397056
57.00	22840	86.00	744	128.00	1836	175.00	29528
58.00	1042	87.00	32392	129.00	1143	176.00	375296
60.00	7264	88.00	31544	130.00	2493	177.00	24824
61.00	36368	91.00	2240	131.00	901	178.00	774
62.00	36640	92.00	20760	135.00	1017		
63.00	29448	93.00	32136	137.00	1133		

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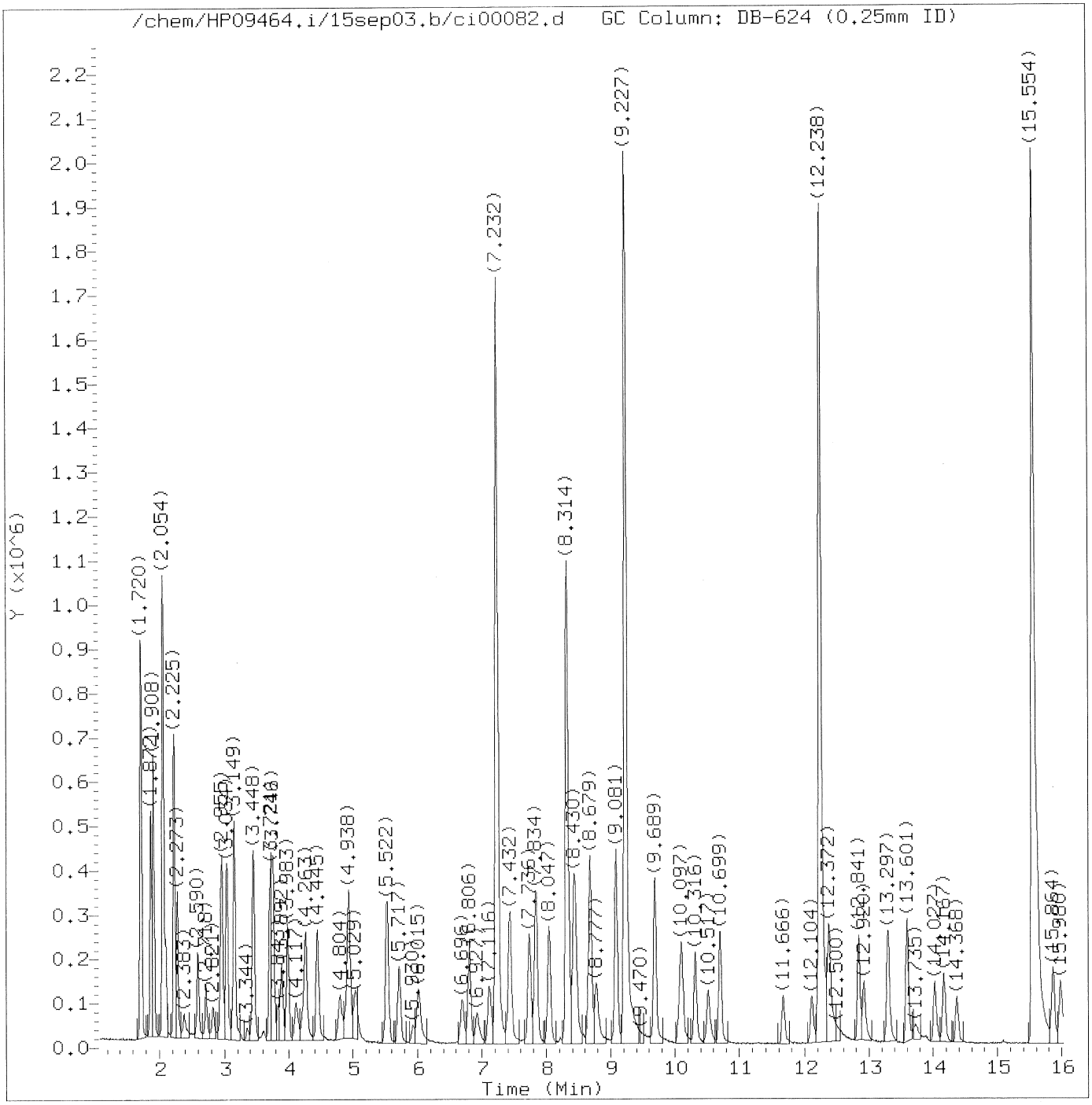
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

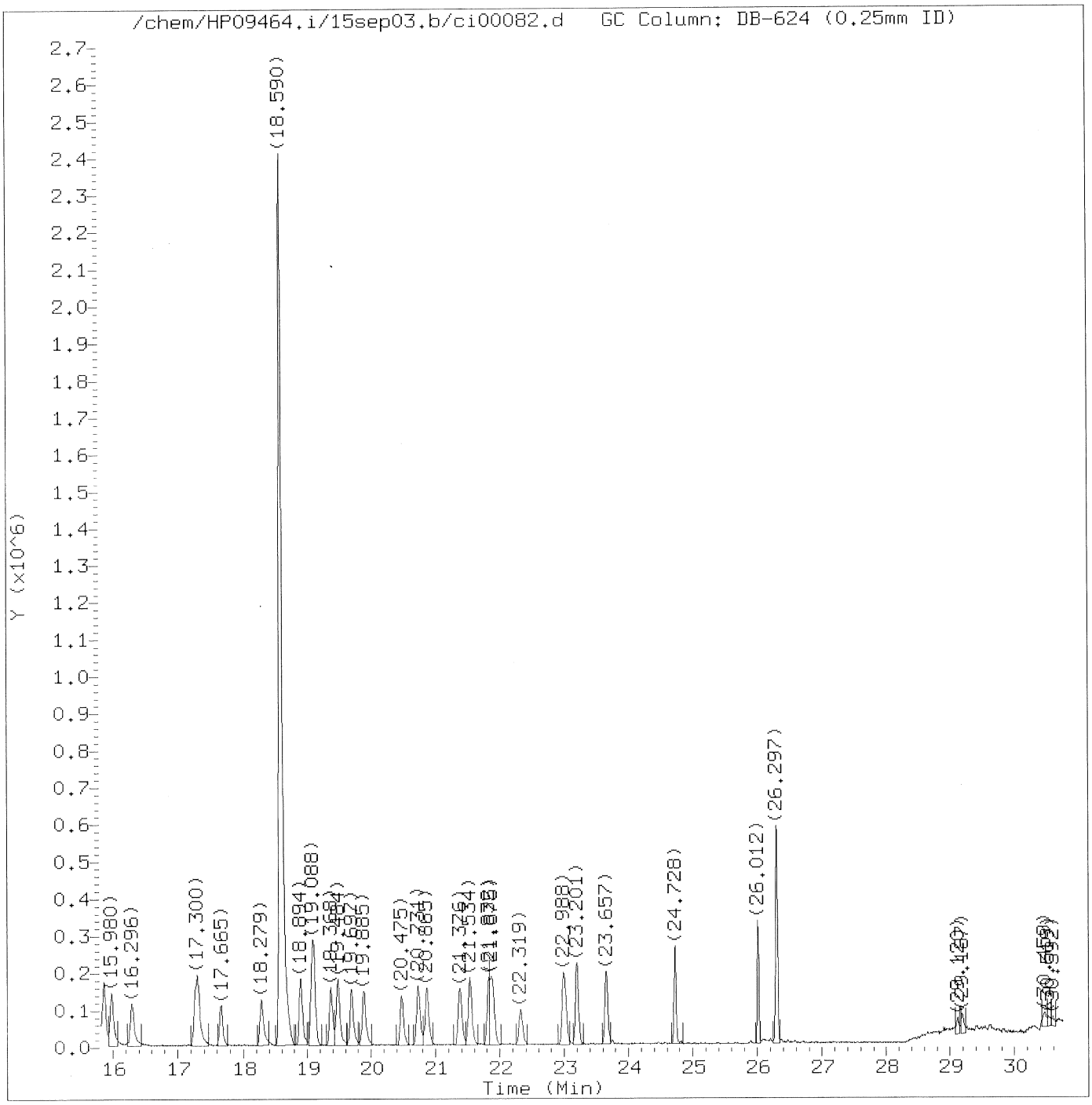
Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001 Lab Sample ID: VSTD001

Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001 Lab Sample ID: VSTD001

Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00082.d
Injection date and time: 03-SEP-2015 20:58
Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m
Calibration date and time: 08-SEP-2015 14:45
Sublist used: all
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001
Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	181105	1.471
2) Dichlorodifluoromethane	(1)	1.908	85	421387	1.313
3) Chlorodifluoromethane	(1)	1.914	51	365678	1.430
4) Freon 114	(1)	2.048	85	384441	1.311
5) Chloromethane	(1)	2.097	52	82032	1.471
6) Vinyl Chloride	(1)	2.225	62	212547	1.407
7) 1,3-Butadiene	(1)	2.273	54	162517	1.280
8) Bromomethane	(1)	2.590	94	142558	1.257
9) Chloroethane	(1)	2.718	64	117471	1.276
10) Bromoethene	(1)	2.937	106	129230	1.361
11) Dichlorofluoromethane	(1)	2.961	67	457152	1.399
12) Trichlorofluoromethane	(1)	3.034	101	420609	1.323
13) Pentane	(1)	3.149	43	409411	1.364
14) Ethanol	(1)	3.350	45	51671	0.775
15) Freon123a	(1)	3.448	67	426445	1.592
16) Acrolein	(1)	3.606	56	29984	0.939
17) 1,1-Dichloroethene	(1)	3.709	61	325566	1.386
18) Freon 113	(1)	3.752	103	187936	1.244
19) Acetone	(1)	3.837	43	167774	1.505
20) Methyl Iodide	(1)	3.898	142	258975	1.335
21) Carbon Disulfide	(1)	3.983	76	537819	1.309
22) Isopropanol	(1)	4.117	45	225302	1.216
23) Acetonitrile	(1)	4.238	40	57356M	1.700
24) 3-Chloropropene	(1)	4.257	76	97047	1.550
25) Methylene Chloride	(1)	4.445	84	171253	1.589
26) tert-Butyl Alcohol	(1)	4.804	59	250003	1.376
27) Acrylonitrile	(1)	4.902	53	110634	1.327
28) trans-1,2-Dichloroethene	(1)	4.938	61	347784	1.336
29) Methyl t-Butyl Ether	(1)	5.048	73	198730	1.162
30) Hexane	(1)	5.528	57	243206	1.338
31) 1,1-Dichloroethane	(1)	5.717	63	327513	1.489
32) Vinyl Acetate	(1)	5.936	86	6856	0.734
33) Di-Isopropyl Ether	(1)	6.015	45	223095	1.092
36) 1,2-Dichloroethene (total)	(1)		61	588711	2.757
34) Ethyl Tert-Butyl Ether	(1)	6.690	59	160129	1.079
35) cis-1,2-Dichloroethene	(1)	6.806	61	240927	1.421
37) 2-Butanone	(1)	6.933	72	31656	1.152
38) Ethyl Acetate	(1)	7.104	70	17808	1.245

M = Compound was manually integrated.

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.134	55	128309	1.186
40)*Bromochloromethane	(1)	7.232	130	658824	10.000
41) Tetrahydrofuran	(1)	7.408	42	88402	1.105
42) Chloroform	(1)	7.438	83	317965	1.528
43) 1,1,1-Trichloroethane	(1)	7.736	97	267089	1.463
44) Cyclohexane	(1)	7.834	56	266021	1.345
45) Carbon Tetrachloride	(1)	8.047	117	261663	1.454
46) Benzene	(2)	8.424	78	424100	1.351
47) 1,2-Dichloroethane	(2)	8.454	62	236565	1.359
48) Isooctane	(2)	8.685	57	658980	1.194
49) Tert-Amyl Methyl Ether	(2)	8.777	73	146078	1.005
50) Heptane	(2)	9.087	43	311502	1.264
51)*1,4-Difluorobenzene	(2)	9.227	114	2210952	10.000
52) Trichloroethene	(2)	9.689	130	165612	1.283
53) Ethyl Acrylate	(2)	10.066	55	148834	0.997
54) 1,2-Dichloropropane	(2)	10.097	63	151761	1.184
55) Dibromomethane	(2)	10.316	174	97609	1.185
56) 1,4-Dioxane	(2)	10.498	88	38282	0.885
57) Methyl Methacrylate	(2)	10.517	69	69369	0.964
58) Bromodichloromethane	(2)	10.699	83	293908	1.194
59) cis-1,3-Dichloropropene	(2)	11.666	75	125766	0.884
60) 4-Methyl-2-Pentanone	(2)	12.104	43	168974	0.840
61) Toluene	(3)	12.378	91	261695	1.126
64) 1,3-Dichloropropene (total)	(3)		75	260177	1.859
62) Octane	(3)	12.841	43	216748	0.845
63) trans-1,3-Dichloropropene	(3)	12.920	75	134411	0.975
65) Ethyl Methacrylate	(3)	13.297	69	87981	0.801
66) 1,1,2-Trichloroethane	(3)	13.309	97	97623	1.014
67) Tetrachloroethene	(3)	13.601	166	130758	1.129
68) 2-Hexanone	(3)	14.027	43	201435	0.980
69) Dibromochloromethane	(3)	14.167	127	115399	0.900
70) 1,2-Dibromoethane	(3)	14.368	107	140437	1.012
71)*Chlorobenzene-d5	(3)	15.554	117	2032880	10.000
72) Chlorobenzene	(3)	15.615	112	202461	1.095
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	84633	0.964
74) Ethylbenzene	(3)	15.986	91	224042	0.908
75) m/p-Xylene	(3)	16.302	91	161013	0.816
77) Xylene (total)	(3)		91	345773	1.701

* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.276	91	184760	0.885
78) Styrene	(3)	17.300	104	135412	0.860
79) Bromoform	(3)	17.653	173	90478	0.803
80) Cumene	(3)	18.279	105	190591	0.851
81) Bromobenzene	(3)	18.900	156	79304	0.956
82) 1,1,2,2-Tetrachloroethane	(3)	19.064	83	217042	1.007
83) 1,2,3-Trichloropropane	(3)	19.107	110	46892	0.961
84) n-Propylbenzene	(3)	19.368	120	56181	0.869
85) 2-Chlorotoluene	(3)	19.478	126	60078	0.887
86) 4-Ethyltoluene	(3)	19.697	105	216679	0.889
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	194116	0.944
88) Alpha Methyl Styrene	(3)	20.482	118	79513	0.802
89) tert-Butylbenzene	(3)	20.737	119	152734	0.881
90) 1,2,4-Trimethylbenzene	(3)	20.871	105	200339	0.919
91) sec-Butylbenzene	(3)	21.376	105	251630	0.871
92) 1,3-Dichlorobenzene	(3)	21.534	146	143612	0.934
93) 1,4-Dichlorobenzene	(3)	21.826	146	140670	0.897
94) p-Isopropyltoluene	(3)	21.893	119	198432	0.867
95) Benzyl Chloride	(3)	22.319	91	169750	0.739
96) 1,2-Dichlorobenzene	(3)	22.988	146	132141	0.925
97) n-Butylbenzene	(3)	23.195	91	257858	0.956
98) Hexachloroethane	(3)	23.651	117	76271	0.885
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	62137	0.894
100) 1,2,4-Trichlorobenzene	(3)	26.012	180	79083	0.981
101) Hexachlorobutadiene	(3)	26.291	225	66266	0.888
102) Naphthalene	(3)	26.310	128	221838	1.047

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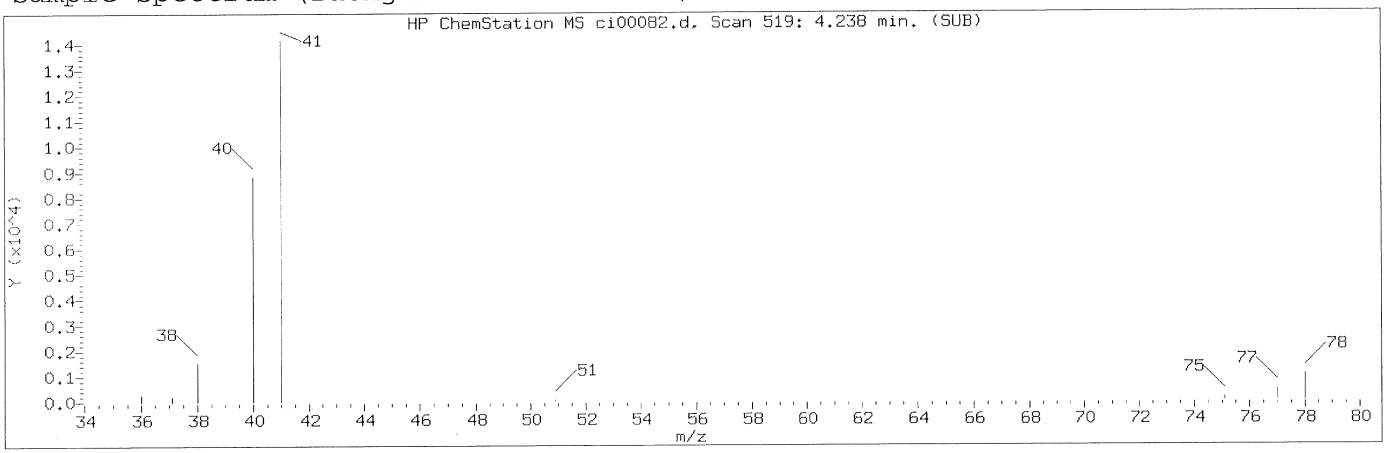
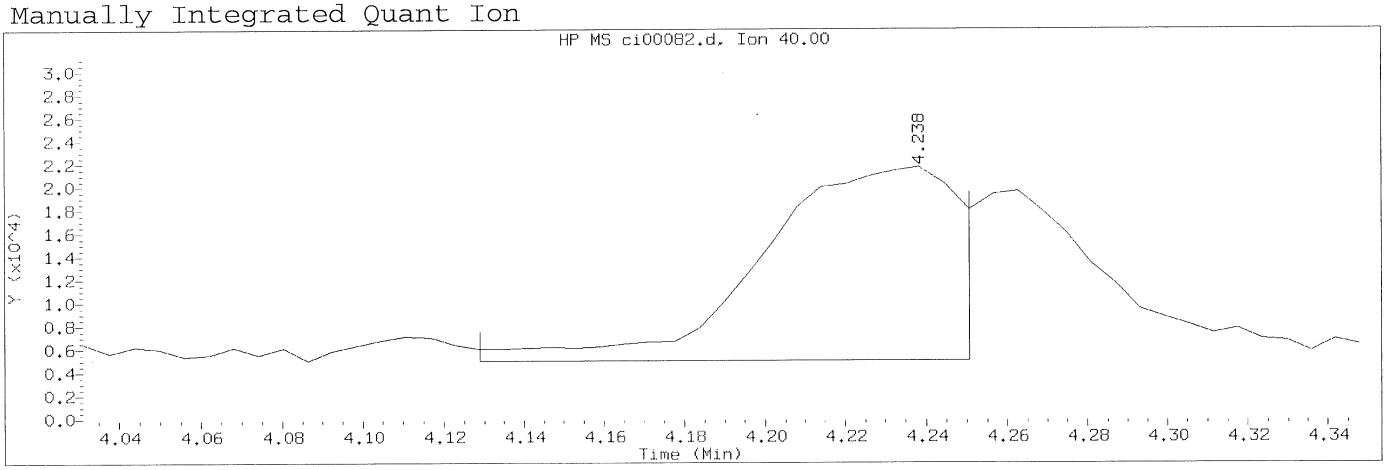
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD001 Lab Sample ID: VSTD001

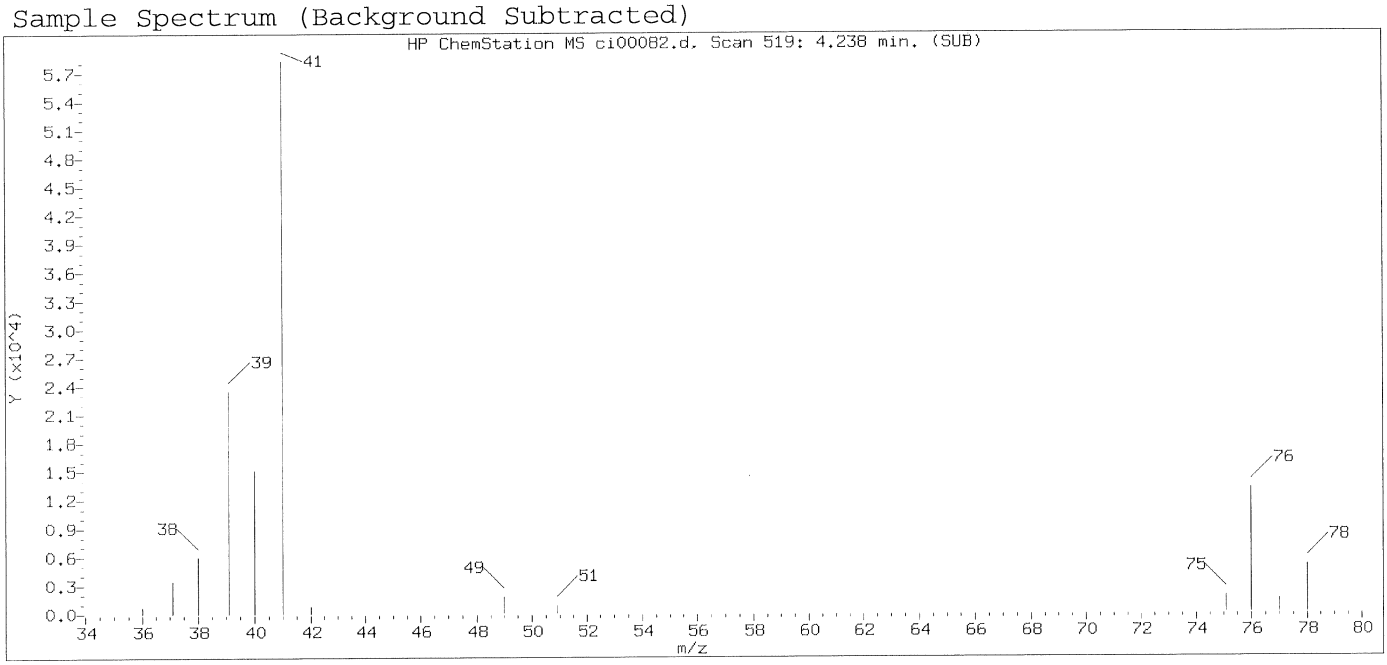
Compound Number : 23
Compound Name : Acetonitrile
Scan Number : 519
Retention Time (minutes): 4.238
Quant Ion : 40.00
Area (flag) : 57356M
Concentration (ppb(v)) : 1.6999
Integration start scan : 500 Integration stop scan: 520
Y at integration start : 5022 Y at integration end: 5022

Reason for manual integration: improper integration

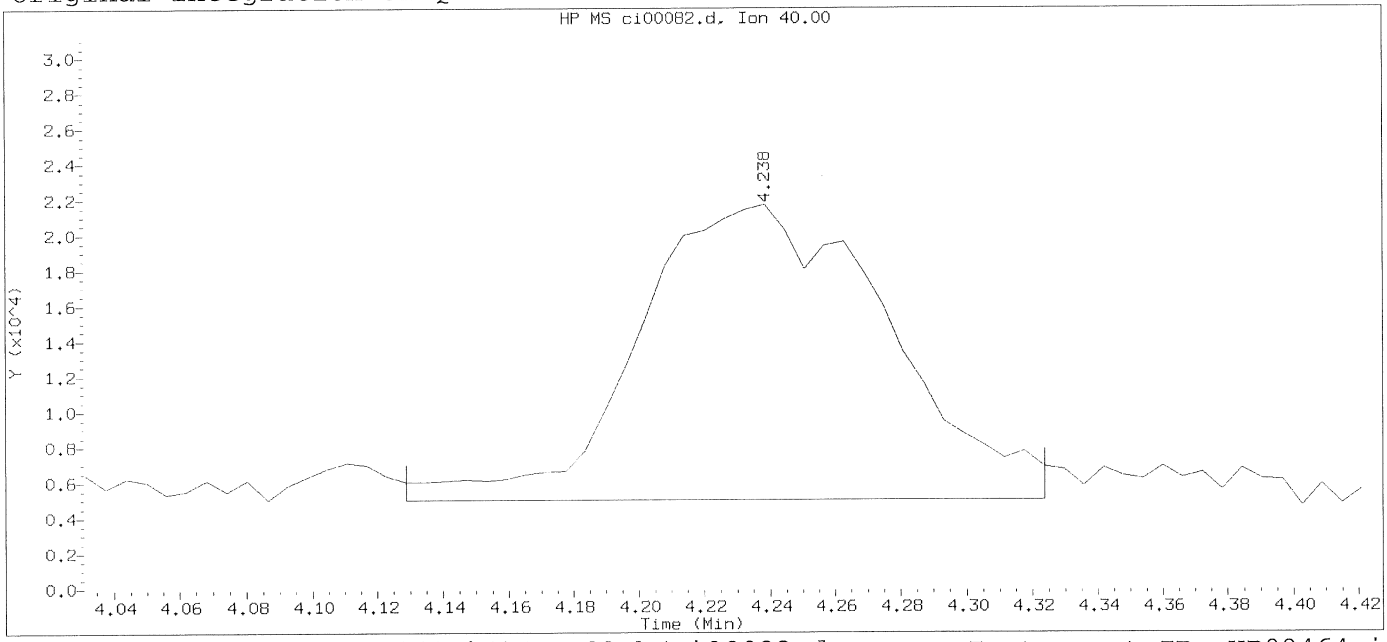
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00082.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 20:58 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 03-Sep-2015 21:37 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 519		
Retention Time (minutes)	: 4.238		
Quant Ion	: 40.00		
Area	: 88171		
Concentration (ppb(v))	: 1.4700		
Integration start scan	: 500	Integration stop scan:	532
Y at integration start	: 5022	Y at integration end:	5022

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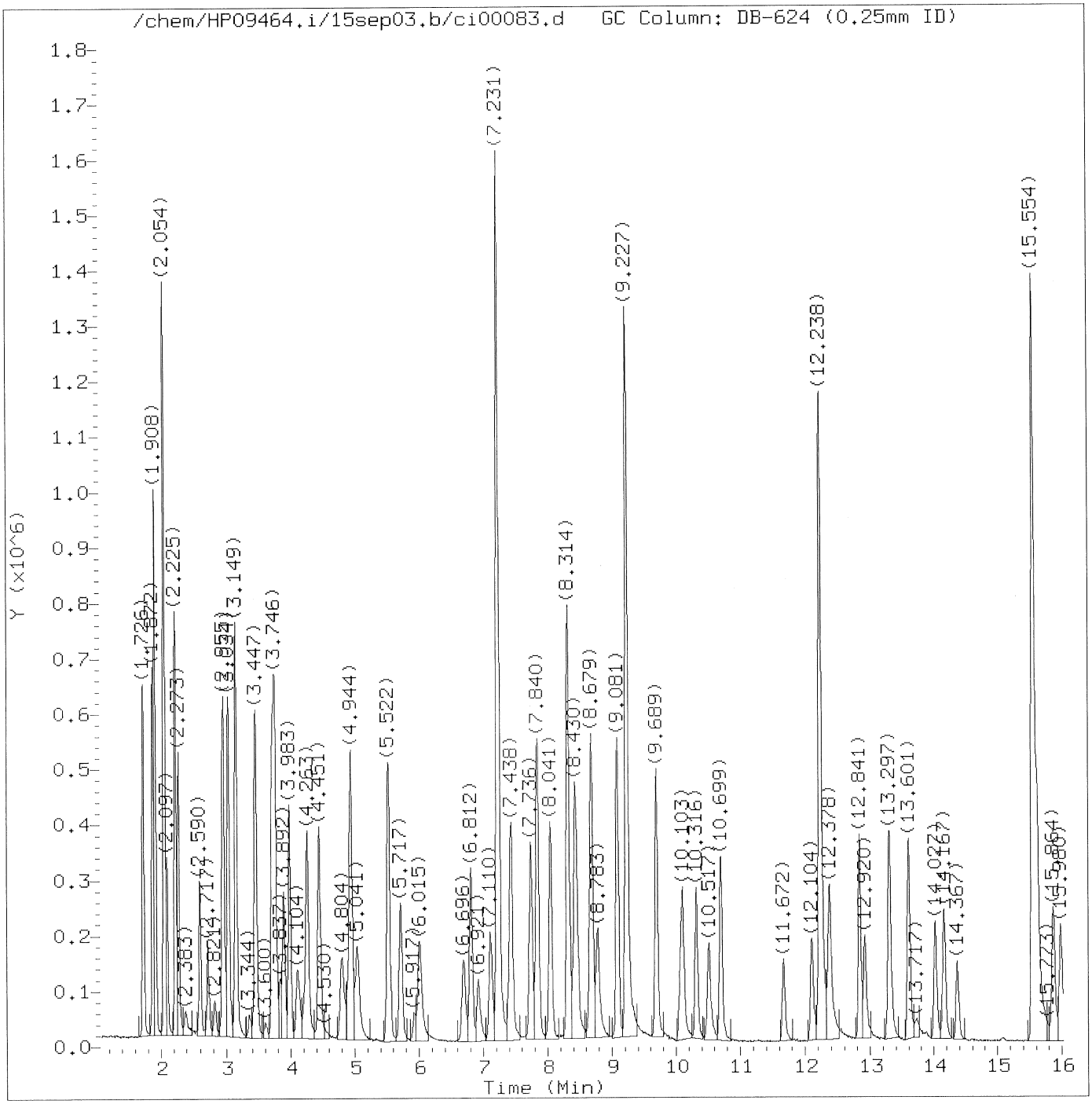
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

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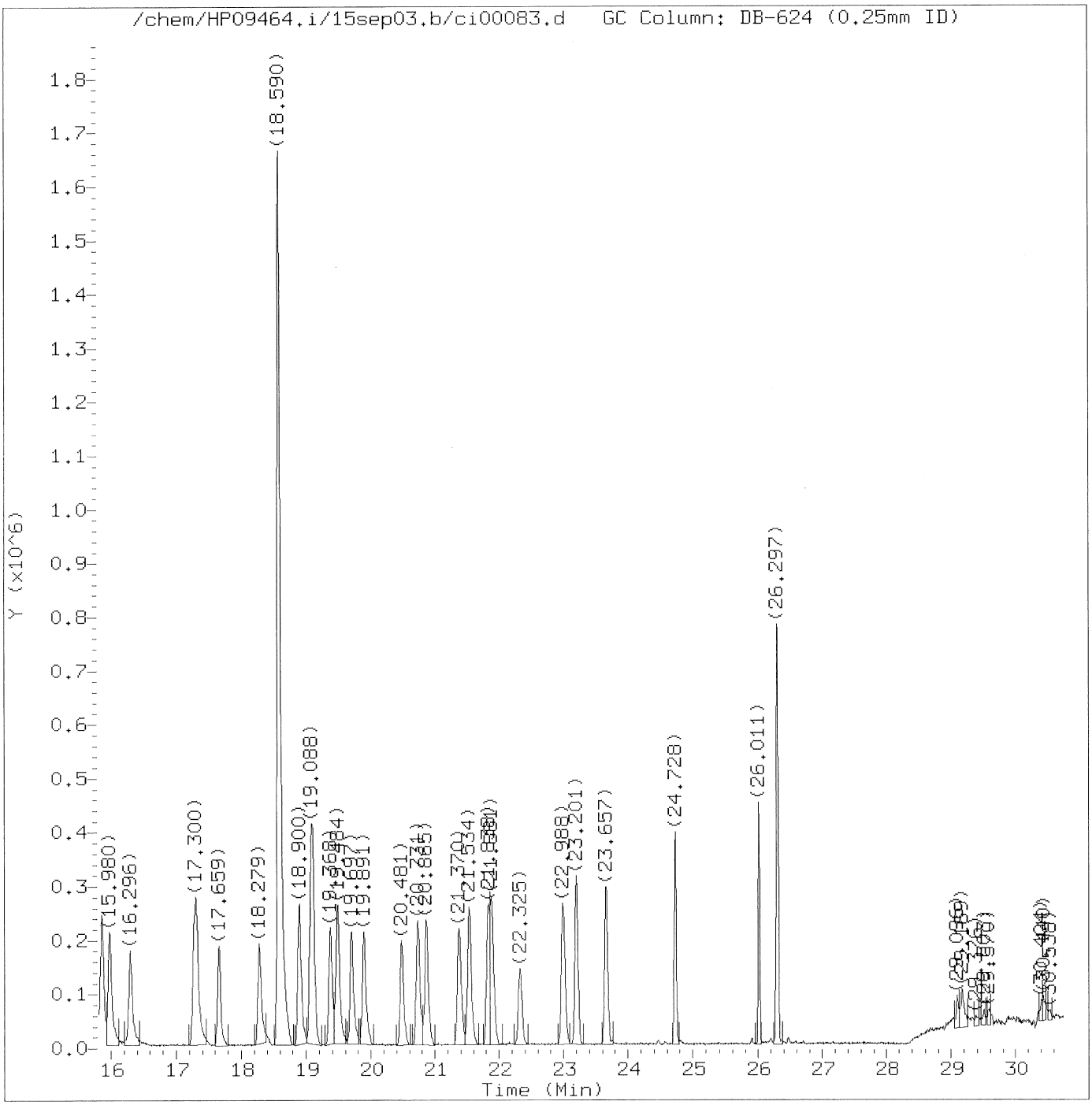
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	271713	2.366
2) Dichlorodifluoromethane	(1)	1.908	85	651758	2.177
3) Chlorodifluoromethane	(1)	1.914	51	552589	2.316
4) Freon 114	(1)	2.048	85	599859	2.193
5) Chloromethane	(1)	2.097	52	121715	2.340
6) Vinyl Chloride	(1)	2.225	62	327800	2.326
7) 1,3-Butadiene	(1)	2.273	54	254413	2.148
8) Bromomethane	(1)	2.596	94	216412	2.045
9) Chloroethane	(1)	2.724	64	172473	2.009
10) Bromoethene	(1)	2.936	106	196725	2.220
11) Dichlorofluoromethane	(1)	2.961	67	698524	2.291
12) Trichlorofluoromethane	(1)	3.034	101	645808	2.178
13) Pentane	(1)	3.149	43	635715	2.269
14) Ethanol	(1)	3.350	45	75958	1.222
15) Freon123a	(1)	3.447	67	587305	2.350
16) Acrolein	(1)	3.600	56	34167	1.147
17) 1,1-Dichloroethene	(1)	3.709	61	506483	2.311
18) Freon 113	(1)	3.752	103	292983	2.079
19) Acetone	(1)	3.837	43	230438	2.215
20) Methyl Iodide	(1)	3.892	142	396153	2.188
21) Carbon Disulfide	(1)	3.983	76	827084	2.158
22) Isopropanol	(1)	4.117	45	332855	1.925
23) Acetonitrile	(1)	4.220	40	40080M	1.273
24) 3-Chloropropene	(1)	4.263	76	134220	2.298
25) Methylene Chloride	(1)	4.445	84	262205	2.608
26) tert-Butyl Alcohol	(1)	4.804	59	371470	2.192
27) Acrylonitrile	(1)	4.901	53	131782	1.694
28) trans-1,2-Dichloroethene	(1)	4.944	61	536575	2.209
29) Methyl t-Butyl Ether	(1)	5.041	73	282853	1.773
30) Hexane	(1)	5.528	57	374386	2.208
31) 1,1-Dichloroethane	(1)	5.717	63	471027	2.295
32) Vinyl Acetate	(1)	5.936	86	8984	1.031
33) Di-Isopropyl Ether	(1)	6.003	45	334856	1.756
36) 1,2-Dichloroethene (total)	(1)		61	886816	4.423
34) Ethyl Tert-Butyl Ether	(1)	6.696	59	217221	1.569
35) cis-1,2-Dichloroethene	(1)	6.812	61	350241	2.213
37) 2-Butanone	(1)	6.921	72	47474	1.851
38) Ethyl Acetate	(1)	7.110	70	25906	1.942

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.128	55	175367	1.737
40)*Bromochloromethane	(1)	7.231	130	614664	10.000
41) Tetrahydrofuran	(1)	7.402	42	132290	1.773
42) Chloroform	(1)	7.438	83	426842	2.198
43) 1,1,1-Trichloroethane	(1)	7.736	97	392392	2.304
44) Cyclohexane	(1)	7.840	56	415757	2.253
45) Carbon Tetrachloride	(1)	8.041	117	395940	2.358
46) Benzene	(2)	8.424	78	516466	2.593
47) 1,2-Dichloroethane	(2)	8.460	62	287013	2.600
48) Isooctane	(2)	8.679	57	903951	2.582
49) Tert-Amyl Methyl Ether	(2)	8.783	73	211054	2.289
50) Heptane	(2)	9.081	43	387351	2.477
51)*1,4-Difluorobenzene	(2)	9.227	114	1402279	10.000
52) Trichloroethene	(2)	9.689	130	215314	2.631
53) Ethyl Acrylate	(2)	10.066	55	220913	2.333
54) 1,2-Dichloropropane	(2)	10.103	63	178768	2.200
55) Dibromomethane	(2)	10.316	174	125448	2.401
56) 1,4-Dioxane	(2)	10.504	88	63798	2.325
57) Methyl Methacrylate	(2)	10.517	69	100954	2.212
58) Bromodichloromethane	(2)	10.699	83	391364	2.506
59) cis-1,3-Dichloropropene	(2)	11.666	75	162009	1.795
60) 4-Methyl-2-Pentanone	(2)	12.104	43	296582	2.324
61) Toluene	(3)	12.378	91	318591	2.049
64) 1,3-Dichloropropene (total)	(3)		75	345089	3.779
62) Octane	(3)	12.841	43	317326	1.847
63) trans-1,3-Dichloropropene	(3)	12.926	75	183080	1.984
65) Ethyl Methacrylate	(3)	13.297	69	148271	2.017
66) 1,1,2-Trichloroethane	(3)	13.297	97	134203	2.082
67) Tetrachloroethene	(3)	13.601	166	169723	2.189
68) 2-Hexanone	(3)	14.021	43	305815	2.223
69) Dibromochloromethane	(3)	14.161	127	172534	2.010
70) 1,2-Dibromoethane	(3)	14.367	107	190995	2.057
71)*Chlorobenzene-d5	(3)	15.554	117	1360675	10.000
72) Chlorobenzene	(3)	15.621	112	261775	2.115
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	128436	2.185
74) Ethylbenzene	(3)	15.980	91	320275	1.939
75) m/p-Xylene	(3)	16.296	91	227987	1.726
77) Xylene (total)	(3)		91	494856	3.636

* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.269	91	266869	1.911
78) Styrene	(3)	17.312	104	204719	1.942
79) Bromoform	(3)	17.659	173	143632	1.904
80) Cumene	(3)	18.279	105	283022	1.889
81) Bromobenzene	(3)	18.900	156	114878	2.069
82) 1,1,2,2-Tetrachloroethane	(3)	19.070	83	318458	2.208
83) 1,2,3-Trichloropropane	(3)	19.107	110	69272	2.121
84) n-Propylbenzene	(3)	19.368	120	80766	1.865
85) 2-Chlorotoluene	(3)	19.484	126	90658	1.999
86) 4-Ethyltoluene	(3)	19.697	105	309940	1.899
87) 1,3,5-Trimethylbenzene	(3)	19.891	105	282478	2.051
88) Alpha Methyl Styrene	(3)	20.475	118	120147	1.810
89) tert-Butylbenzene	(3)	20.731	119	223465	1.925
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	294578	2.019
91) sec-Butylbenzene	(3)	21.370	105	366796	1.897
92) 1,3-Dichlorobenzene	(3)	21.534	146	213432	2.073
93) 1,4-Dichlorobenzene	(3)	21.826	146	206450	1.968
94) p-Isopropyltoluene	(3)	21.893	119	286962	1.874
95) Benzyl Chloride	(3)	22.325	91	251433	1.636
96) 1,2-Dichlorobenzene	(3)	22.988	146	186634	1.952
97) n-Butylbenzene	(3)	23.195	91	362676	2.009
98) Hexachloroethane	(3)	23.657	117	118658	2.057
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	90075	1.937
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	107283	1.987
101) Hexachlorobutadiene	(3)	26.291	225	86185	1.725
102) Naphthalene	(3)	26.310	128	308988	2.178

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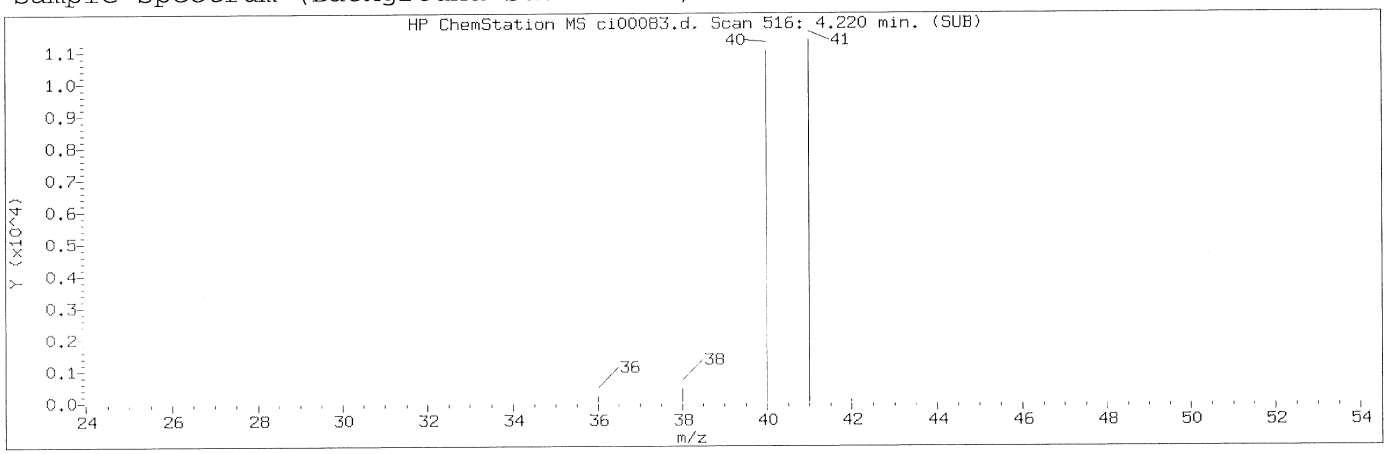
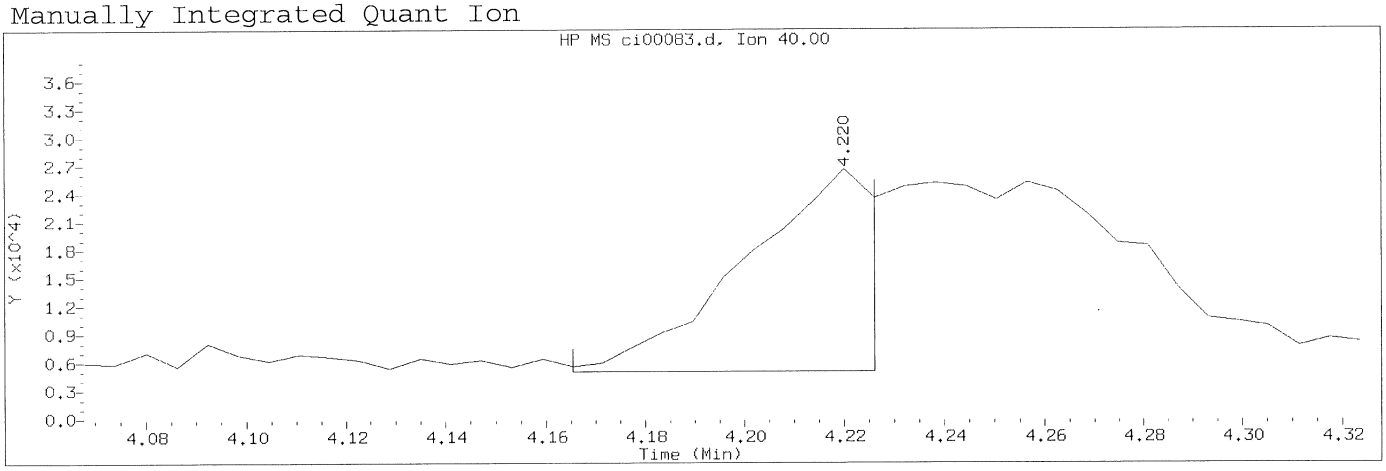
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

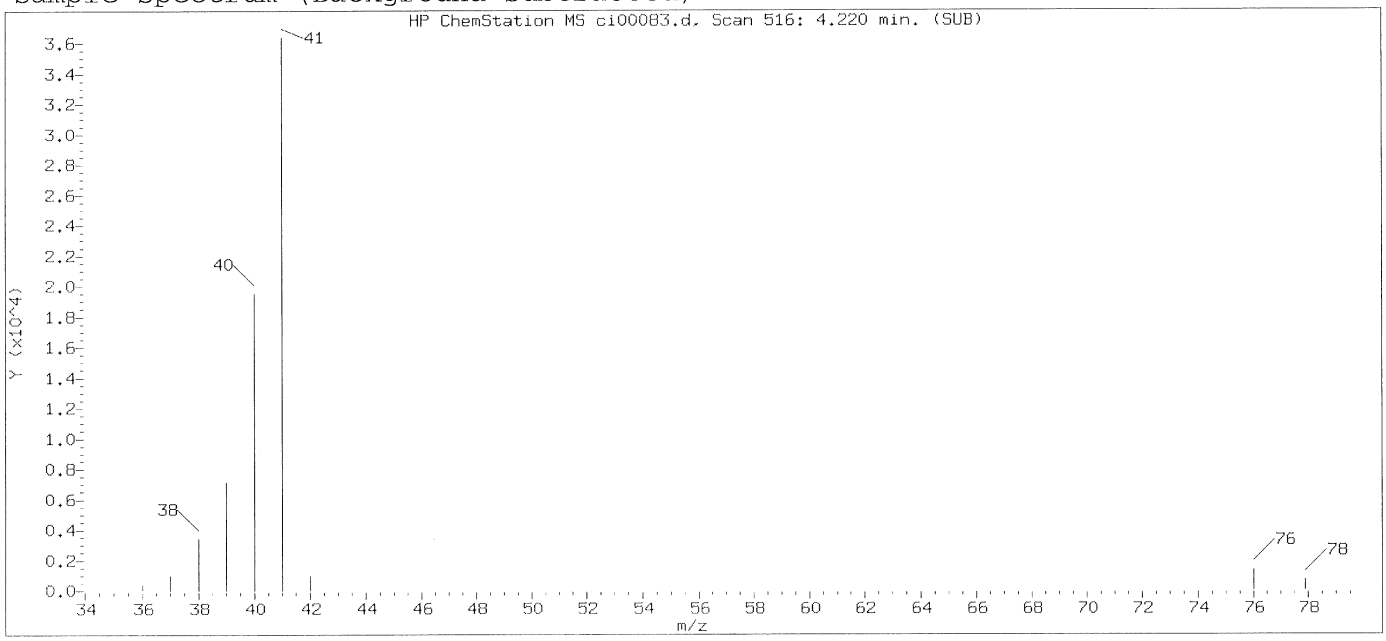
Compound Number : 23
Compound Name : Acetonitrile
Scan Number : 516
Retention Time (minutes): 4.220
Quant Ion : 40.00
Area (flag) : 40080M
Concentration (ppb(v)) : 1.2732
Integration start scan : 506 Integration stop scan: 516
Y at integration start : 5023 Y at integration end: 5023

Reason for manual integration: improper integration

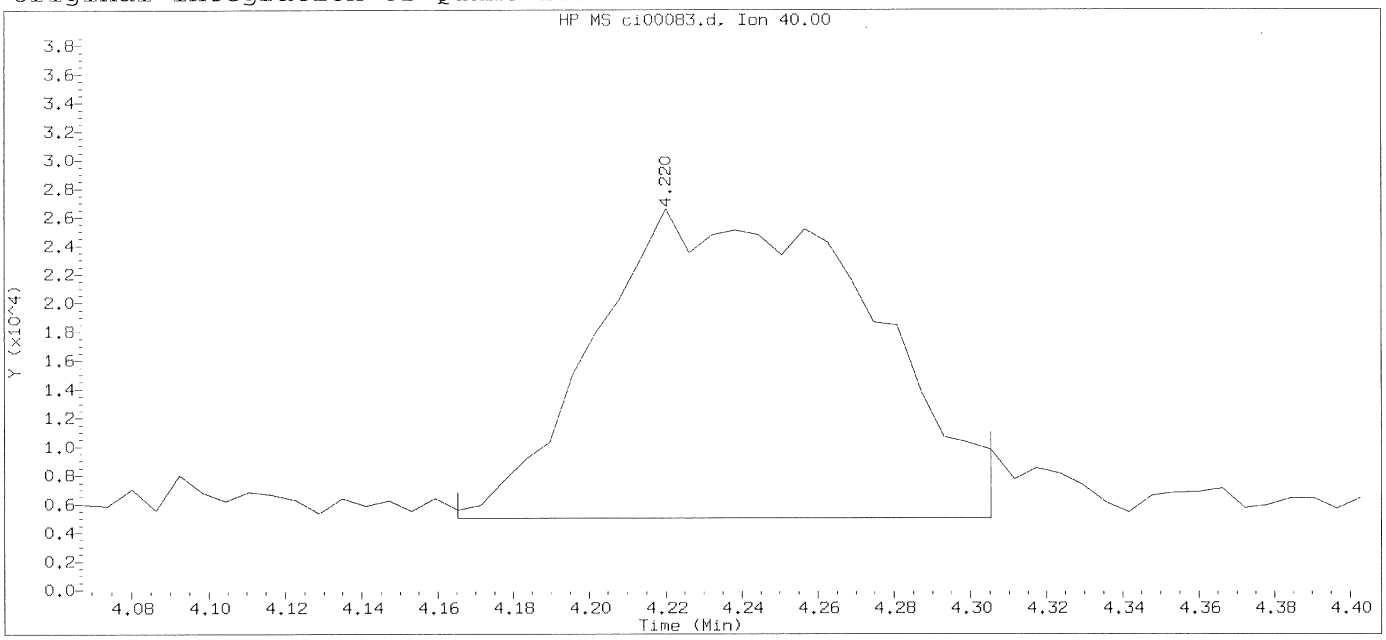
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00083.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 21:41 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 03-Sep-2015 22:20 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 516		
Retention Time (minutes)	: 4.220		
Quant Ion	: 40.00		
Area	: 106771		
Concentration (ppb(v))	: 1.9080		
Integration start scan	: 506	Integration stop scan:	529
Y at integration start	: 5023	Y at integration end:	5023

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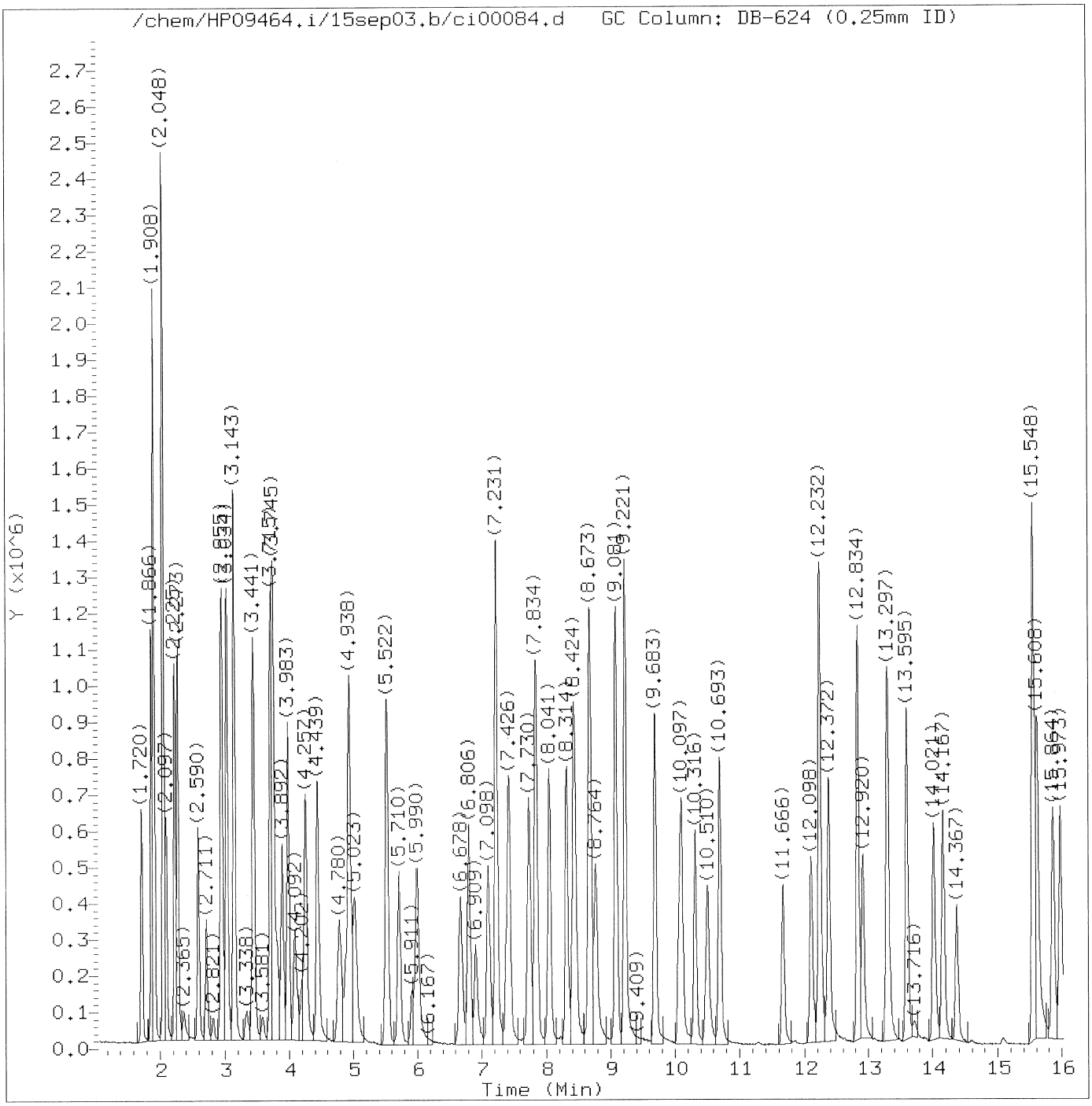
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00084.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 22:23 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

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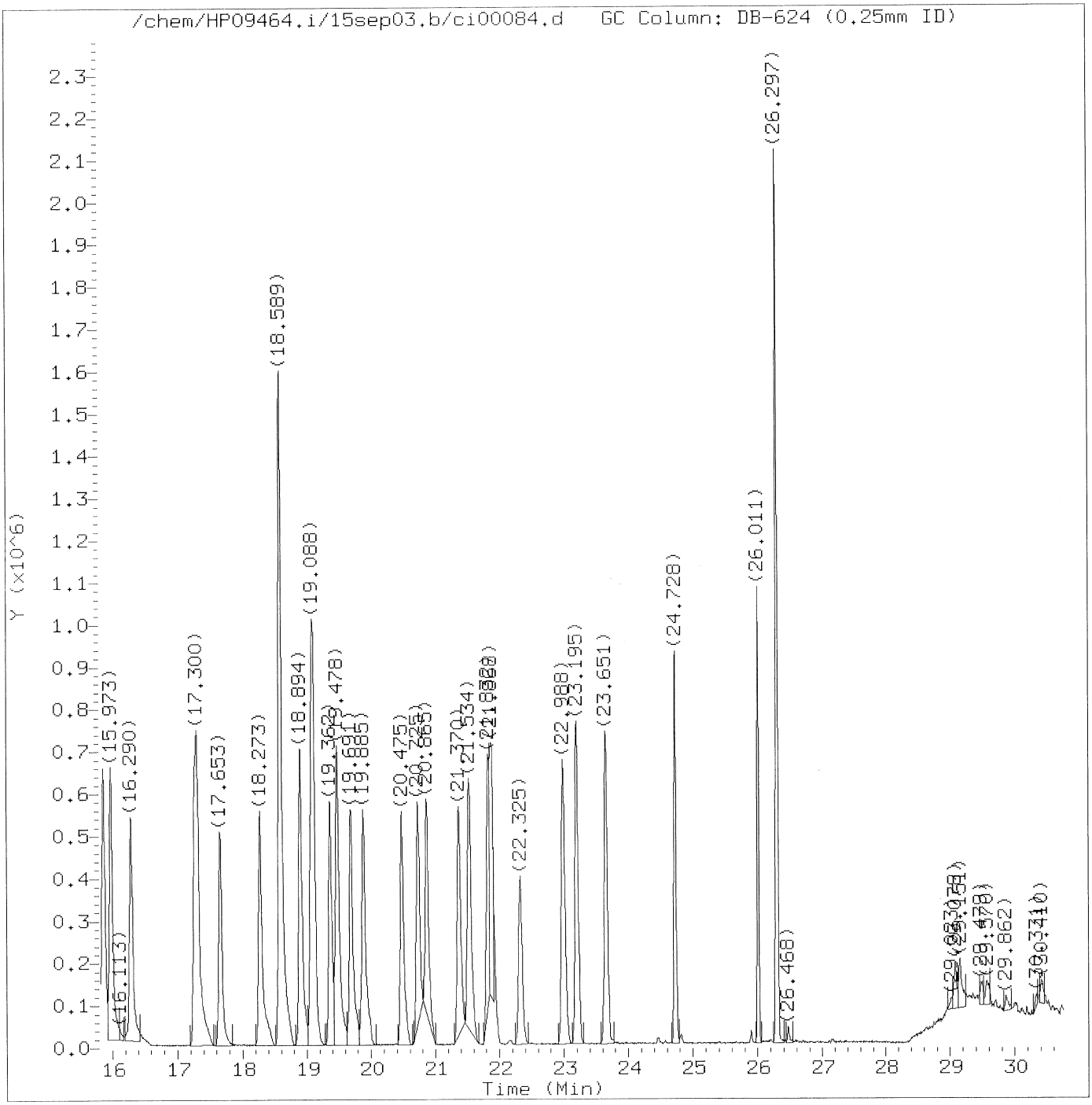
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00084.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 22:23 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00084.d
Injection date and time: 03-SEP-2015 22:23
Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m
Calibration date and time: 08-SEP-2015 14:45
Sublist used: all
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD005
Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	553767	5.589
2) Dichlorodifluoromethane	(1)	1.902	85	1355413	5.247
3) Chlorodifluoromethane	(1)	1.914	51	1129145	5.485
4) Freon 114	(1)	2.048	85	1241771	5.261
5) Chloromethane	(1)	2.091	52	245699	5.474
6) Vinyl Chloride	(1)	2.225	62	672767	5.533
7) 1,3-Butadiene	(1)	2.273	54	534497	5.231
8) Bromomethane	(1)	2.590	94	458110	5.016
9) Chloroethane	(1)	2.711	64	363420	4.905
10) Bromoethene	(1)	2.936	106	414033	5.416
11) Dichlorofluoromethane	(1)	2.961	67	1373174	5.220
12) Trichlorofluoromethane	(1)	3.034	101	1323316	5.172
13) Pentane	(1)	3.143	43	1320777	5.464
14) Ethanol	(1)	3.326	45	161939	3.018
15) Freon123a	(1)	3.441	67	1088115	5.047
16) Acrolein	(1)	3.581	56	88276	3.434
17) 1,1-Dichloroethene	(1)	3.703	61	1050831	5.557
18) Freon 113	(1)	3.745	103	579576	4.766
19) Acetone	(1)	3.812	43	495536	5.520
20) Methyl Iodide	(1)	3.892	142	843128	5.398
21) Carbon Disulfide	(1)	3.983	76	1732736	5.239
22) Isopropanol	(1)	4.086	45	751096	5.034
23) Acetonitrile	(1)	4.202	40	110033	4.051
24) 3-Chloropropene	(1)	4.257	76	255494	5.069
25) Methylene Chloride	(1)	4.445	84	501467	5.780
26) tert-Butyl Alcohol	(1)	4.786	59	849991	5.812
27) Acrylonitrile	(1)	4.883	53	307012	4.575
28) trans-1,2-Dichloroethene	(1)	4.938	61	1057806	5.048
29) Methyl t-Butyl Ether	(1)	5.023	73	736322	5.349
30) Hexane	(1)	5.522	57	744591	5.090
31) 1,1-Dichloroethane	(1)	5.710	63	863859	4.878
32) Vinyl Acetate	(1)	5.911	86	25646	3.410
33) Di-Isopropyl Ether	(1)	5.996	45	893247	5.429
36) 1,2-Dichloroethene (total)	(1)		61	1724913	9.934
34) Ethyl Tert-Butyl Ether	(1)	6.678	59	639373	5.351
35) cis-1,2-Dichloroethene	(1)	6.806	61	667107	4.886
37) 2-Butanone	(1)	6.903	72	120512	5.447
38) Ethyl Acetate	(1)	7.098	70	66012	5.734

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00084.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 22:23 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.116	55	458328	5.262
40)*Bromochloromethane	(1)	7.231	130	530385	10.000
41) Tetrahydrofuran	(1)	7.390	42	327434	5.085
42) Chloroform	(1)	7.432	83	831514	4.963
43) 1,1,1-Trichloroethane	(1)	7.736	97	732226	4.982
44) Cyclohexane	(1)	7.834	56	852739	5.356
45) Carbon Tetrachloride	(1)	8.041	117	750571	5.180
46) Benzene	(2)	8.424	78	1058505	5.309
47) 1,2-Dichloroethane	(2)	8.454	62	585017	5.293
48) Isooctane	(2)	8.673	57	2017541	5.756
49) Tert-Amyl Methyl Ether	(2)	8.771	73	534199	5.787
50) Heptane	(2)	9.081	43	876168	5.597
51)*1,4-Difluorobenzene	(2)	9.221	114	1403961	10.000
52) Trichloroethene	(2)	9.689	130	395652	4.828
53) Ethyl Acrylate	(2)	10.054	55	572936	6.042
54) 1,2-Dichloropropane	(2)	10.097	63	443412	5.450
55) Dibromomethane	(2)	10.316	174	264027	5.046
56) 1,4-Dioxane	(2)	10.486	88	163215	5.941
57) Methyl Methacrylate	(2)	10.510	69	254560	5.572
58) Bromodichloromethane	(2)	10.693	83	883433	5.650
59) cis-1,3-Dichloropropene	(2)	11.666	75	447902	4.955
60) 4-Methyl-2-Pentanone	(2)	12.098	43	791252	6.191
61) Toluene	(3)	12.378	91	869584	5.575
64) 1,3-Dichloropropene (total)	(3)		75	945558	10.333
62) Octane	(3)	12.834	43	1002377	5.818
63) trans-1,3-Dichloropropene	(3)	12.920	75	497656	5.378
65) Ethyl Methacrylate	(3)	13.291	69	417525	5.663
66) 1,1,2-Trichloroethane	(3)	13.303	97	356114	5.508
67) Tetrachloroethene	(3)	13.601	166	391743	5.038
68) 2-Hexanone	(3)	14.021	43	879191	6.371
69) Dibromochloromethane	(3)	14.161	127	447060	5.193
70) 1,2-Dibromoethane	(3)	14.367	107	484248	5.199
71)*Chlorobenzene-d5	(3)	15.548	117	1364711	10.000
72) Chlorobenzene	(3)	15.621	112	688015	5.543
73) 1,1,1,2-Tetrachloroethane	(3)	15.858	131	331356	5.619
74) Ethylbenzene	(3)	15.980	91	917410	5.537
75) m/p-Xylene	(3)	16.290	91	639117	4.823
77) Xylene (total)	(3)		91	1378419	10.101

* = Compound is an internal standard.

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00084.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 22:23 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.263	91	739302	5.278
78) Styrene	(3)	17.306	104	569624	5.389
79) Bromoform	(3)	17.665	173	402875	5.325
80) Cumene	(3)	18.273	105	765553	5.094
81) Bromobenzene	(3)	18.900	156	300354	5.394
82) 1,1,2,2-Tetrachloroethane	(3)	19.070	83	808428	5.589
83) 1,2,3-Trichloropropane	(3)	19.100	110	172196	5.256
84) n-Propylbenzene	(3)	19.368	120	209378	4.822
85) 2-Chlorotoluene	(3)	19.478	126	238661	5.247
86) 4-Ethyltoluene	(3)	19.691	105	827025	5.052
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	656512	4.753
88) Alpha Methyl Styrene	(3)	20.475	118	329207	4.946
89) tert-Butylbenzene	(3)	20.731	119	570797	4.902
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	746746	5.102
91) sec-Butylbenzene	(3)	21.370	105	935723	4.825
92) 1,3-Dichlorobenzene	(3)	21.528	146	559528	5.419
93) 1,4-Dichlorobenzene	(3)	21.826	146	551254	5.238
94) p-Isopropyltoluene	(3)	21.887	119	762373	4.964
95) Benzyl Chloride	(3)	22.325	91	682686	4.428
96) 1,2-Dichlorobenzene	(3)	22.988	146	494513	5.156
97) n-Butylbenzene	(3)	23.201	91	904506	4.996
98) Hexachloroethane	(3)	23.657	117	312864	5.407
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	228678	4.903
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	247943	4.579
101) Hexachlorobutadiene	(3)	26.291	225	224918	4.487
102) Naphthalene	(3)	26.309	128	763432	5.365

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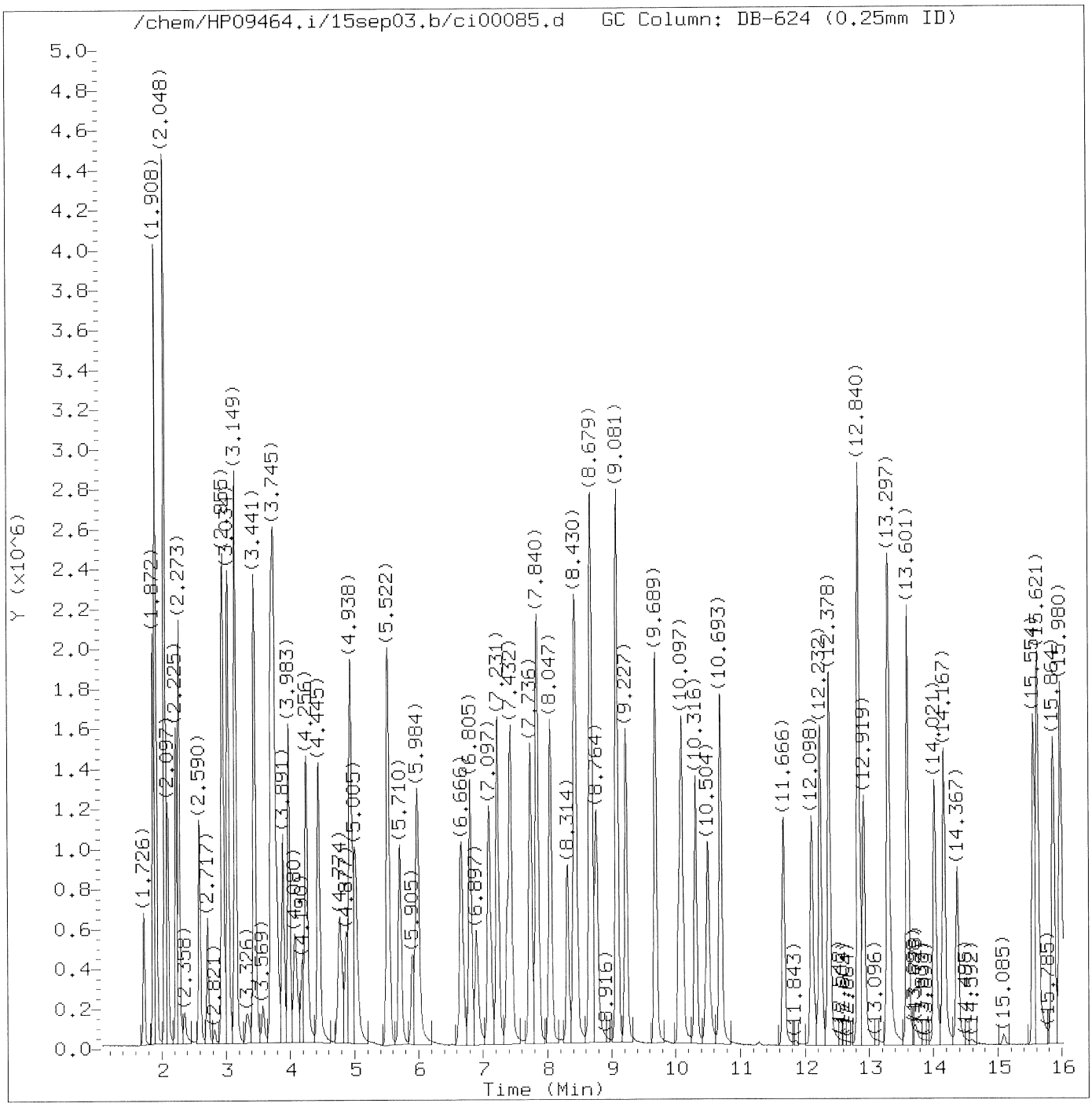
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

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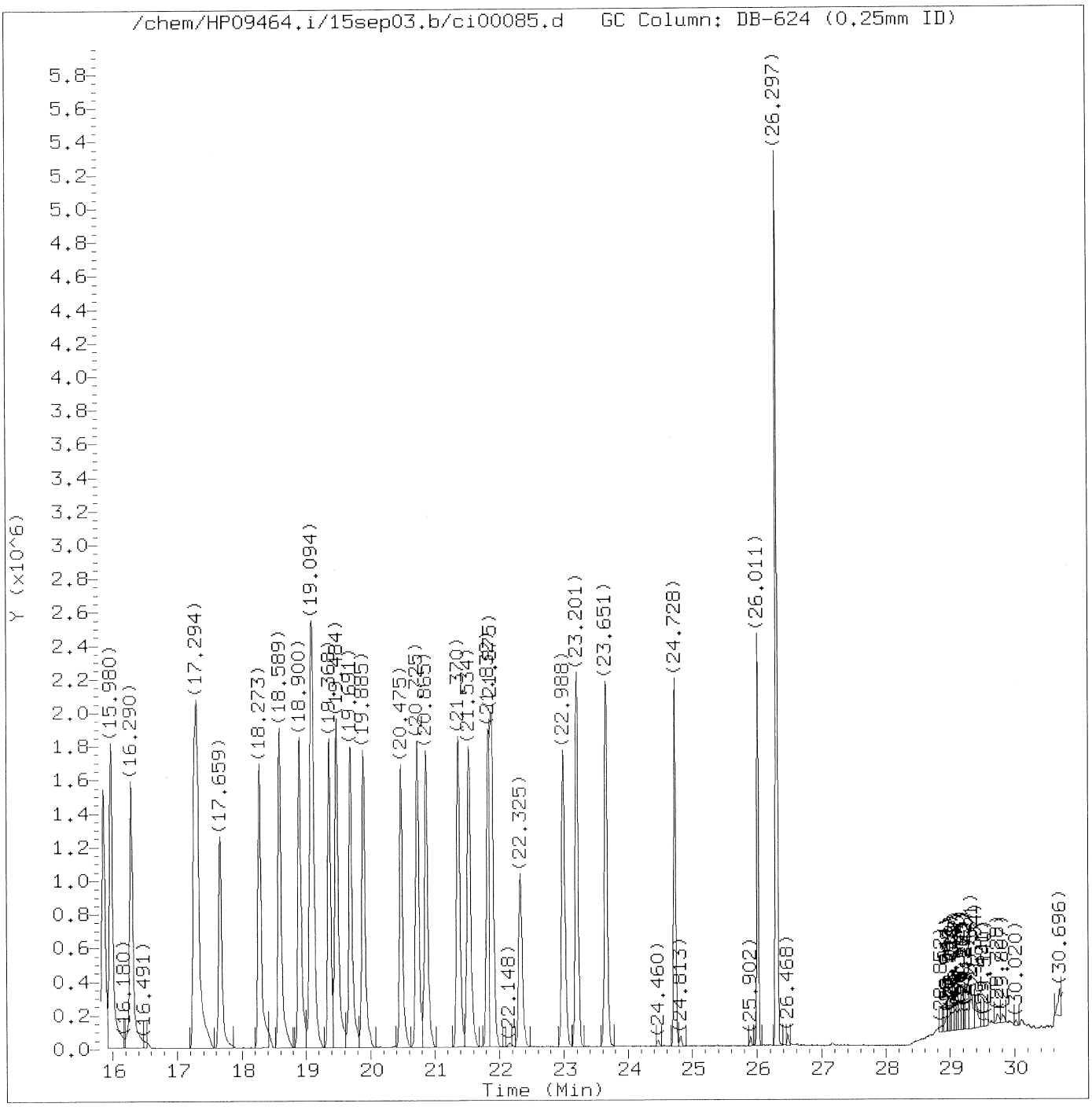
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	1085868	9.235
2) Dichlorodifluoromethane	(1)	1.908	85	2609992	8.513
3) Chlorodifluoromethane	(1)	1.920	51	2152439	8.811
4) Freon 114	(1)	2.048	85	2435552	8.695
5) Chloromethane	(1)	2.097	52	468568	8.797
6) Vinyl Chloride	(1)	2.225	62	1297240	8.990
7) 1,3-Butadiene	(1)	2.273	54	1051485	8.671
8) Bromomethane	(1)	2.590	94	871885	8.044
9) Chloroethane	(1)	2.717	64	693702	7.890
10) Bromoethene	(1)	2.936	106	823780	9.080
11) Dichlorofluoromethane	(1)	2.961	67	2643234	8.467
12) Trichlorofluoromethane	(1)	3.034	101	2505474	8.251
13) Pentane	(1)	3.149	43	2482325	8.654
14) Ethanol	(1)	3.320	45	313504	4.924
15) Freon123a	(1)	3.441	67	2224030	8.692
16) Acrolein	(1)	3.569	56	228308	7.484
17) 1,1-Dichloroethene	(1)	3.709	61	2004835	8.934
18) Freon 113	(1)	3.752	103	1136856	7.878
19) Acetone	(1)	3.800	43	1139763	10.699
20) Methyl Iodide	(1)	3.891	142	1569474	8.467
21) Carbon Disulfide	(1)	3.983	76	3186695	8.119
22) Isopropanol	(1)	4.080	45	1470605	8.306
23) Acetonitrile	(1)	4.190	40	316186M	9.809
24) 3-Chloropropene	(1)	4.256	76	521827	8.724
25) Methylene Chloride	(1)	4.445	84	946706	9.195
26) tert-Butyl Alcohol	(1)	4.780	59	1619006	9.328
27) Acrylonitrile	(1)	4.877	53	783535	9.839
28) trans-1,2-Dichloroethene	(1)	4.938	61	2033707	8.178
29) Methyl t-Butyl Ether	(1)	5.005	73	1729519	10.588
30) Hexane	(1)	5.522	57	1621997	9.343
31) 1,1-Dichloroethane	(1)	5.710	63	1844696	8.778
32) Vinyl Acetate	(1)	5.905	86	86146	9.652
33) Di-Isopropyl Ether	(1)	5.984	45	2260454	11.577
36) 1,2-Dichloroethene (total)	(1)		61	3494043	17.191
34) Ethyl Tert-Butyl Ether	(1)	6.672	59	1559678	10.999
35) cis-1,2-Dichloroethene	(1)	6.805	61	1460336	9.013
37) 2-Butanone	(1)	6.897	72	271635	10.346
38) Ethyl Acetate	(1)	7.085	70	158339	11.591

M = Compound was manually integrated.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.110	55	1172734	11.345
40)*Bromochloromethane	(1)	7.231	130	629399	10.000
41) Tetrahydrofuran	(1)	7.383	42	819850	10.729
42) Chloroform	(1)	7.432	83	1781165	8.958
43) 1,1,1-Trichloroethane	(1)	7.736	97	1591147	9.123
44) Cyclohexane	(1)	7.840	56	1805558	9.556
45) Carbon Tetrachloride	(1)	8.047	117	1601689	9.315
46) Benzene	(2)	8.424	78	2524915	10.982
47) 1,2-Dichloroethane	(2)	8.454	62	1336081	10.483
48) Isooctane	(2)	8.679	57	4740664	11.730
49) Tert-Amyl Methyl Ether	(2)	8.764	73	1300657	12.220
50) Heptane	(2)	9.081	43	2057447	11.398
51)*1,4-Difluorobenzene	(2)	9.221	114	1618895	10.000
52) Trichloroethene	(2)	9.689	130	839877	8.888
53) Ethyl Acrylate	(2)	10.054	55	1347337	12.323
54) 1,2-Dichloropropane	(2)	10.103	63	1038624	11.071
55) Dibromomethane	(2)	10.316	174	598089	9.914
56) 1,4-Dioxane	(2)	10.480	88	364550	11.508
57) Methyl Methacrylate	(2)	10.510	69	600663	11.402
58) Bromodichloromethane	(2)	10.693	83	1896639	10.520
59) cis-1,3-Dichloropropene	(2)	11.666	75	1123977	10.784
60) 4-Methyl-2-Pentanone	(2)	12.098	43	1707577	11.588
61) Toluene	(3)	12.378	91	2248115	12.992
64) 1,3-Dichloropropene (total)	(3)		75	2338665	22.617
62) Octane	(3)	12.840	43	2537997	13.280
63) trans-1,3-Dichloropropene	(3)	12.919	75	1214688	11.833
65) Ethyl Methacrylate	(3)	13.291	69	980129	11.985
66) 1,1,2-Trichloroethane	(3)	13.303	97	851526	11.873
67) Tetrachloroethene	(3)	13.601	166	925203	10.726
68) 2-Hexanone	(3)	14.021	43	1916549	12.519
69) Dibromochloromethane	(3)	14.167	127	1033070	10.819
70) 1,2-Dibromoethane	(3)	14.367	107	1150973	11.139
71)*Chlorobenzene-d5	(3)	15.554	117	1513887	10.000
72) Chlorobenzene	(3)	15.621	112	1637003	11.889
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	798616	12.209
74) Ethylbenzene	(3)	15.980	91	2529851	13.765
75) m/p-Xylene	(3)	16.290	91	1777914	12.095
77) Xylene (total)	(3)		91	3859617	25.492

* = Compound is an internal standard.

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00085.d
Injection date and time: 03-SEP-2015 23:07
Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m
Calibration date and time: 08-SEP-2015 14:45
Sublist used: all
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010
Lab Sample ID: VSTD010

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76)	o-Xylene	(3)	17.269	91	2081703	13.397
78)	Styrene	(3)	17.306	104	1555033	13.261
79)	Bromoform	(3)	17.659	173	1026260	12.229
80)	Cumene	(3)	18.273	105	2305142	13.827
81)	Bromobenzene	(3)	18.900	156	793420	12.846
82)	1,1,2,2-Tetrachloroethane	(3)	19.076	83	2027767	12.636
83)	1,2,3-Trichloropropane	(3)	19.106	110	440028	12.108
84)	n-Propylbenzene	(3)	19.368	120	619365	12.858
85)	2-Chlorotoluene	(3)	19.484	126	645576	12.794
86)	4-Ethyltoluene	(3)	19.691	105	2344687	12.912
87)	1,3,5-Trimethylbenzene	(3)	19.885	105	1986202	12.964
88)	Alpha Methyl Styrene	(3)	20.475	118	939313	12.721
89)	tert-Butylbenzene	(3)	20.731	119	1666253	12.899
90)	1,2,4-Trimethylbenzene	(3)	20.865	105	2025728	12.477
91)	sec-Butylbenzene	(3)	21.370	105	2781539	12.930
92)	1,3-Dichlorobenzene	(3)	21.534	146	1428554	12.473
93)	1,4-Dichlorobenzene	(3)	21.826	146	1414437	12.117
94)	p-Isopropyltoluene	(3)	21.887	119	2140236	12.561
95)	Benzyl Chloride	(3)	22.325	91	1772080	10.362
96)	1,2-Dichlorobenzene	(3)	22.988	146	1276480	11.998
97)	n-Butylbenzene	(3)	23.201	91	2444131	12.170
98)	Hexachloroethane	(3)	23.651	117	853696	13.300
99)	1,2-Dibromo-3-chloropropane	(3)	24.728	157	576244	11.138
100)	1,2,4-Trichlorobenzene	(3)	26.011	180	581442	9.681
101)	Hexachlorobutadiene	(3)	26.291	225	635825	11.435
102)	Naphthalene	(3)	26.309	128	1720824	10.901

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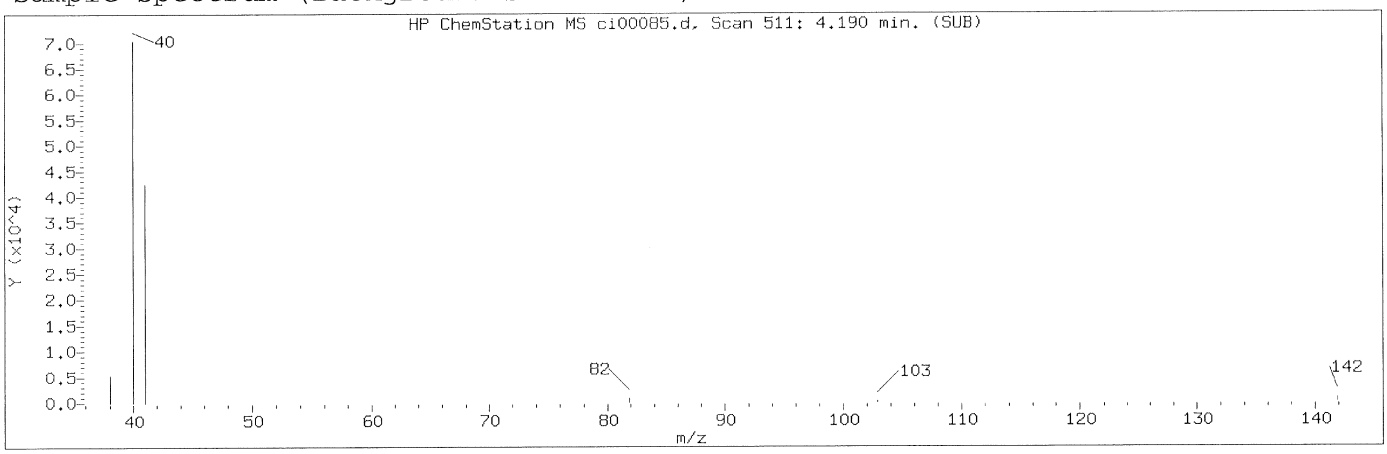
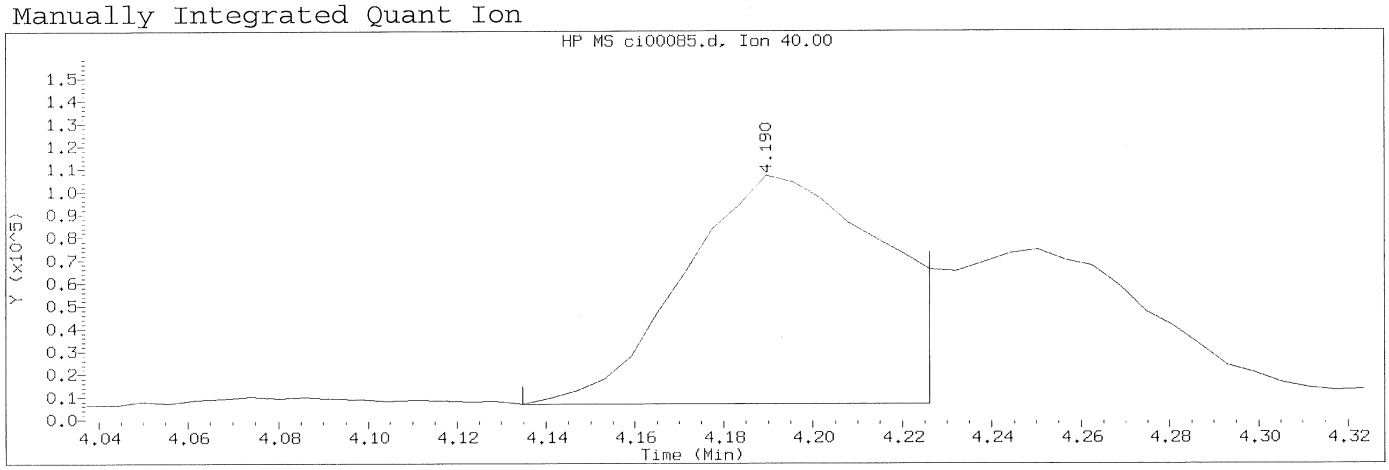
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:45
Date, time and analyst ID of latest file update: 08-Sep-2015 14:45 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

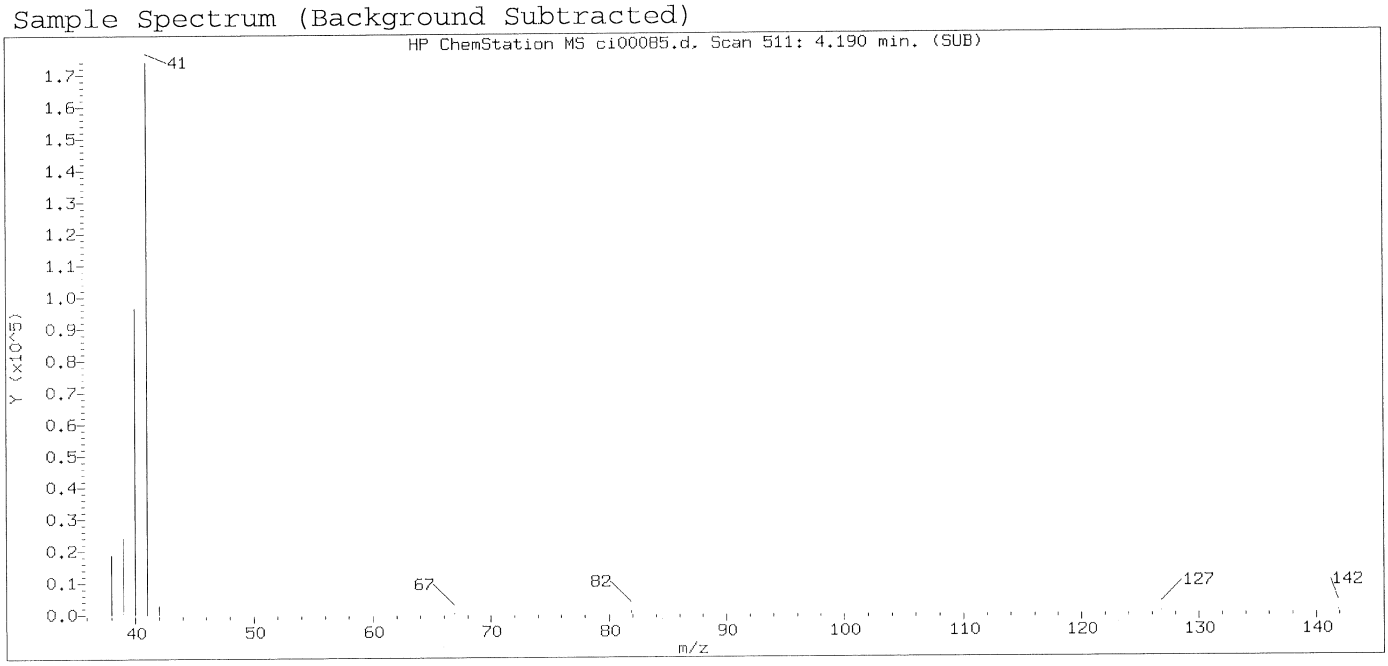
Compound Number : 23
Compound Name : Acetonitrile
Scan Number : 511
Retention Time (minutes): 4.190
Quant Ion : 40.00
Area (flag) : 316186M
Concentration (ppb(v)) : 9.8091
Integration start scan : 501 Integration stop scan: 516
Y at integration start : 6874 Y at integration end: 6874

Reason for manual integration: improper integration

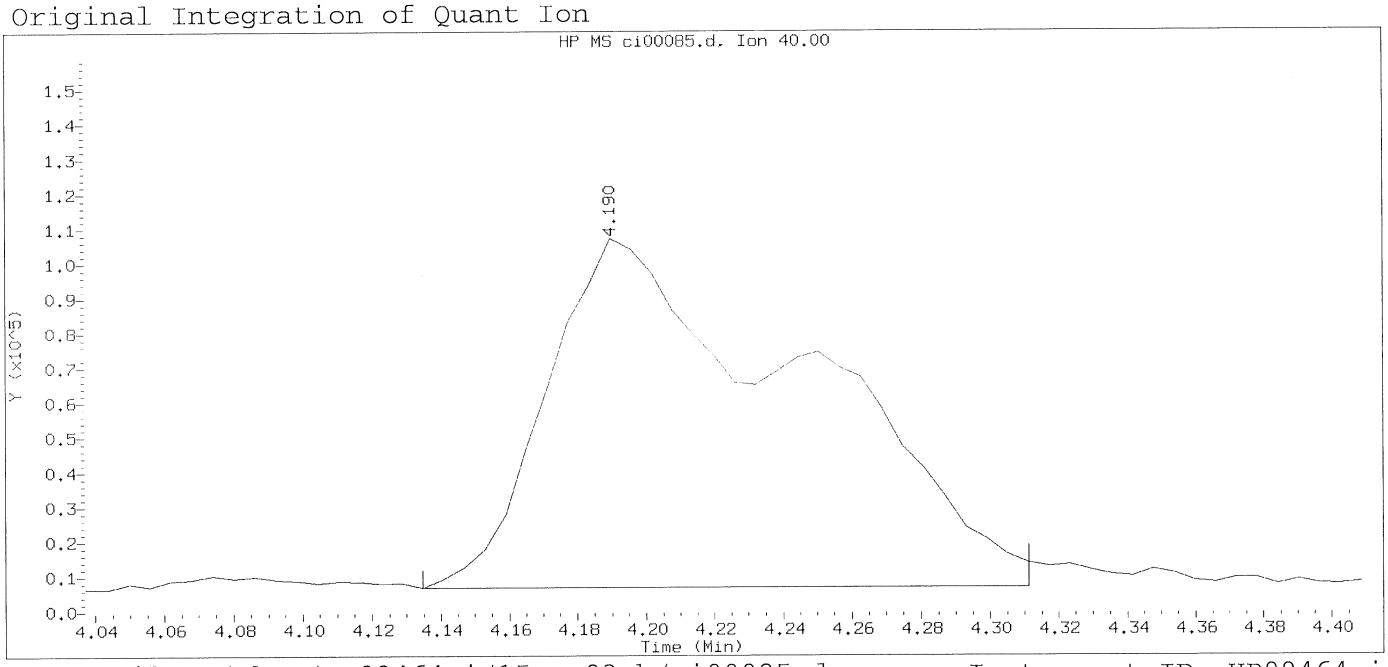
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpo/758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00085.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:07 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 03-Sep-2015 23:46 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 511		
Retention Time (minutes)	: 4.190		
Quant Ion	: 40.00		
Area	: 525555		
Concentration (ppb(v))	: 9.1717		
Integration start scan	: 501	Integration stop scan:	530
Y at integration start	: 6874	Y at integration end:	6874

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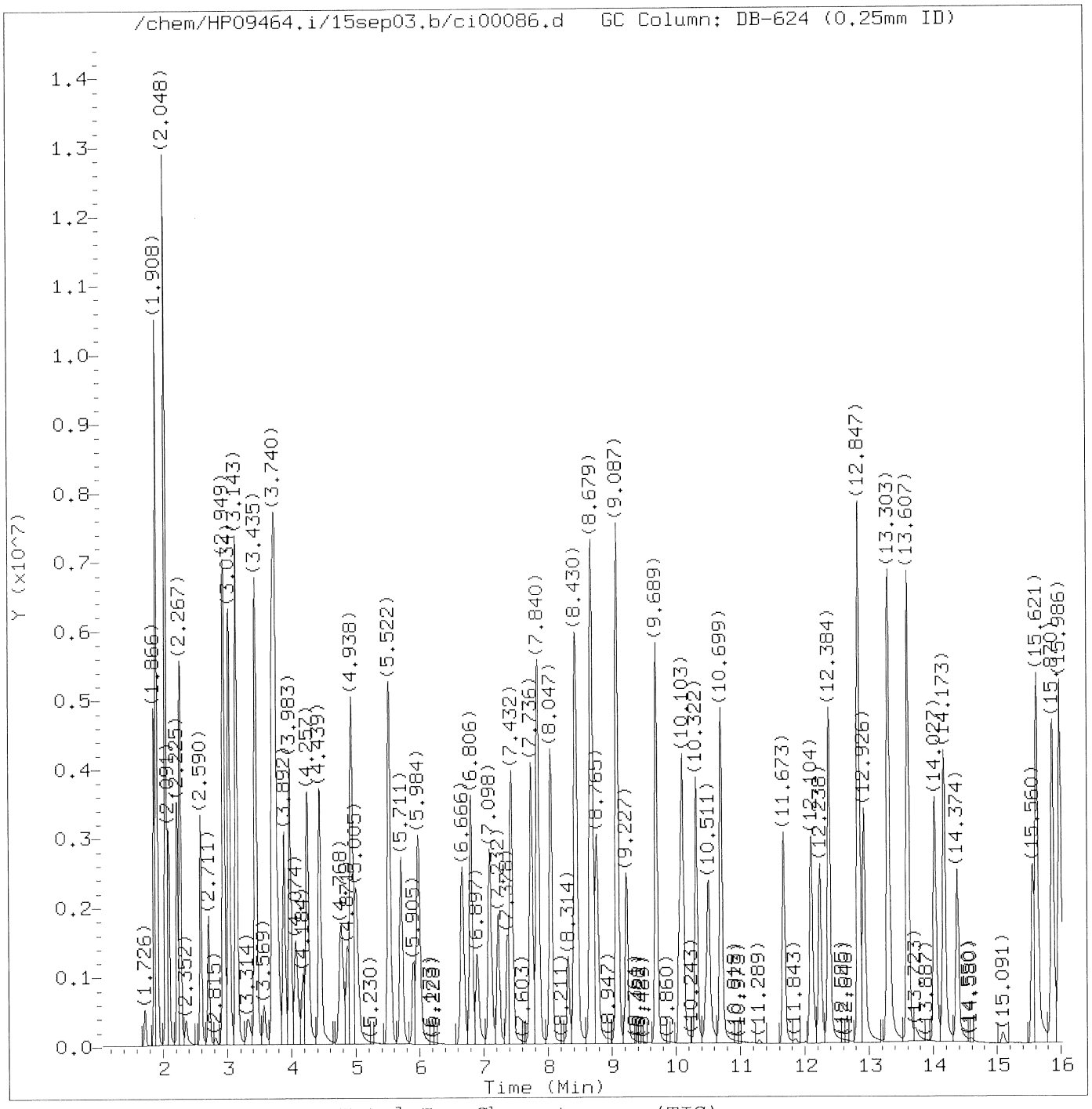
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

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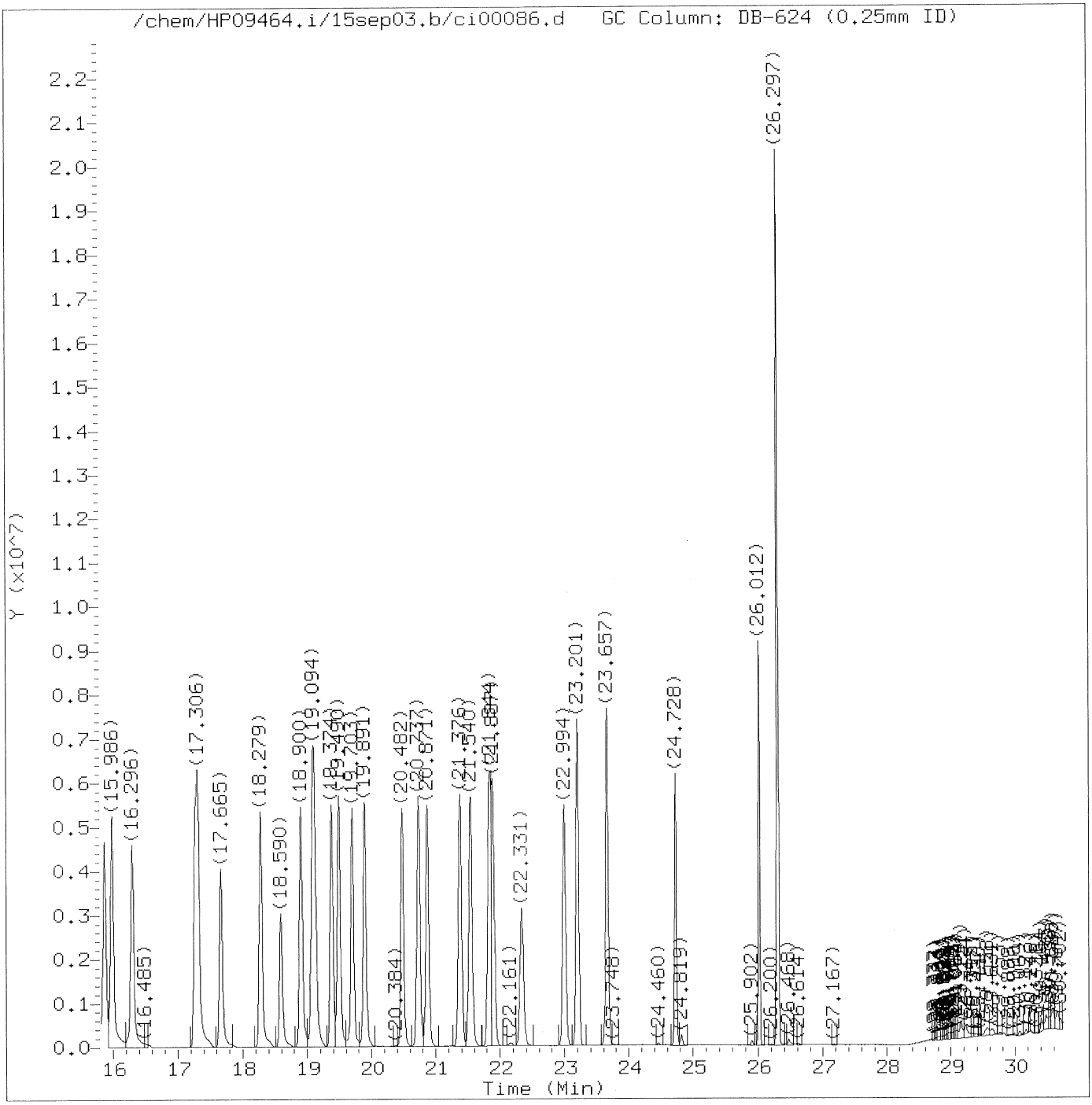
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	2779041	21.134
2) Dichlorodifluoromethane	(1)	1.908	85	6408872	18.694
3) Chlorodifluoromethane	(1)	1.914	51	5351301	19.589
4) Freon 114	(1)	2.048	85	6427124	20.518
5) Chloromethane	(1)	2.097	52	1273438	21.380
6) Vinyl Chloride	(1)	2.219	62	3470368	21.507
7) 1,3-Butadiene	(1)	2.267	54	2820960	20.803
8) Bromomethane	(1)	2.590	94	2465411	20.341
9) Chloroethane	(1)	2.711	64	1964234	19.978
10) Bromoethene	(1)	2.937	106	2533744	24.975
11) Dichlorofluoromethane	(1)	2.955	67	7108429	20.363
12) Trichlorofluoromethane	(1)	3.034	101	6606667	19.457
13) Pentane	(1)	3.143	43	6364053M	19.840
14) Ethanol	(1)	3.308	45	743651	10.445
15) Freon123a	(1)	3.435	67	6108208	21.348
16) Acrolein	(1)	3.569	56	684225	20.058
17) 1,1-Dichloroethene	(1)	3.703	61	5444716	21.698
18) Freon 113	(1)	3.746	103	3330995	20.640
19) Acetone	(1)	3.794	43	2382821	20.003
20) Methyl Iodide	(1)	3.892	142	4636261	22.367
21) Carbon Disulfide	(1)	3.983	76	8256752	18.811
22) Isopropanol	(1)	4.074	45	3882503	19.609
23) Acetonitrile	(1)	4.184	40	765274	21.230
24) 3-Chloropropene	(1)	4.257	76	1530303	22.878
25) Methylene Chloride	(1)	4.439	84	2566943	22.294
26) tert-Butyl Alcohol	(1)	4.768	59	4526285	23.321
27) Acrylonitrile	(1)	4.871	53	1951945	21.918
28) trans-1,2-Dichloroethene	(1)	4.938	61	5087299	18.294
29) Methyl t-Butyl Ether	(1)	5.011	73	4165405	22.802
30) Hexane	(1)	5.522	57	4479864	23.076
31) 1,1-Dichloroethane	(1)	5.711	63	4875190	20.745
32) Vinyl Acetate	(1)	5.905	86	225490	22.592
33) Di-Isopropyl Ether	(1)	5.984	45	5427207	24.856
36) 1,2-Dichloroethene (total)	(1)		61	8912028	39.403
34) Ethyl Tert-Butyl Ether	(1)	6.666	59	4030318	25.417
35) cis-1,2-Dichloroethene	(1)	6.806	61	3824729	21.109
37) 2-Butanone	(1)	6.897	72	620436	21.131
38) Ethyl Acetate	(1)	7.092	70	373430	24.445

M = Compound was manually integrated.

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.110	55	2770695	23.969
40)*Bromochloromethane	(1)	7.232	130	703840	10.000
41) Tetrahydrofuran	(1)	7.371	42	1962577	22.966
42) Chloroform	(1)	7.432	83	4686834	21.079
43) 1,1,1-Trichloroethane	(1)	7.736	97	4255291	21.817
44) Cyclohexane	(1)	7.840	56	4788117	22.661
45) Carbon Tetrachloride	(1)	8.047	117	4195081	21.816
46) Benzene	(2)	8.424	78	6676919	18.632
47) 1,2-Dichloroethane	(2)	8.460	62	3371699	16.973
48) Isooctane	(2)	8.679	57	12722681	20.196
49) Tert-Amyl Methyl Ether	(2)	8.765	73	3404369	20.522
50) Heptane	(2)	9.087	43	5525175	19.638
51)*1,4-Difluorobenzene	(2)	9.227	114	2523292	10.000
52) Trichloroethene	(2)	9.689	130	2566660	17.426
53) Ethyl Acrylate	(2)	10.054	55	3392875	19.909
54) 1,2-Dichloropropane	(2)	10.103	63	2752929	18.827
55) Dibromomethane	(2)	10.322	174	1750172	18.612
56) 1,4-Dioxane	(2)	10.474	88	942581	19.090
57) Methyl Methacrylate	(2)	10.517	69	1488001	18.123
58) Bromodichloromethane	(2)	10.699	83	5194283	18.485
59) cis-1,3-Dichloropropene	(2)	11.673	75	3149122	19.386
60) 4-Methyl-2-Pentanone	(2)	12.104	43	4488885	19.544
61) Toluene	(3)	12.384	91	5841402	21.003
64) 1,3-Dichloropropene (total)	(3)		75	6484322	39.598
62) Octane	(3)	12.841	43	6836946	22.256
63) trans-1,3-Dichloropropene	(3)	12.926	75	3335200	20.213
65) Ethyl Methacrylate	(3)	13.297	69	2987743	22.729
66) 1,1,2-Trichloroethane	(3)	13.309	97	2364985	20.516
67) Tetrachloroethene	(3)	13.607	166	3010819	21.717
68) 2-Hexanone	(3)	14.027	43	5123532	20.821
69) Dibromochloromethane	(3)	14.173	127	3060053	19.937
70) 1,2-Dibromoethane	(3)	14.374	107	3241816	19.520
71)*Chlorobenzene-d5	(3)	15.554	117	2433328	10.000
72) Chlorobenzene	(3)	15.621	112	4670876	21.105
73) 1,1,1,2-Tetrachloroethane	(3)	15.870	131	2364168	22.486
74) Ethylbenzene	(3)	15.986	91	6964808	23.577
75) m/p-Xylene	(3)	16.296	91	5110303	21.629
77) Xylene (total)	(3)		91	11041514	45.377

* = Compound is an internal standard.

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.269	91	5931211	23.748
78) Styrene	(3)	17.312	104	4547387	24.126
79) Bromoform	(3)	17.665	173	3227365	23.926
80) Cumene	(3)	18.279	105	6716647	25.066
81) Bromobenzene	(3)	18.906	156	2347012	23.641
82) 1,1,2,2-Tetrachloroethane	(3)	19.082	83	5529044	21.436
83) 1,2,3-Trichloropropane	(3)	19.113	110	1192545	20.416
84) n-Propylbenzene	(3)	19.374	120	1836218	23.716
85) 2-Chlorotoluene	(3)	19.490	126	1896267	23.380
86) 4-Ethyltoluene	(3)	19.703	105	6641926	22.756
87) 1,3,5-Trimethylbenzene	(3)	19.891	105	5748405	23.343
88) Alpha Methyl Styrene	(3)	20.482	118	2913074	24.544
89) tert-Butylbenzene	(3)	20.737	119	5122828	24.673
90) 1,2,4-Trimethylbenzene	(3)	20.871	105	5896501	22.594
91) sec-Butylbenzene	(3)	21.376	105	8405855	24.310
92) 1,3-Dichlorobenzene	(3)	21.546	146	4364309	23.708
93) 1,4-Dichlorobenzene	(3)	21.838	146	4500675	23.986
94) p-Isopropyltoluene	(3)	21.893	119	6825223	24.922
95) Benzyl Chloride	(3)	22.331	91	5298092	19.275
96) 1,2-Dichlorobenzene	(3)	22.994	146	3925383	22.954
97) n-Butylbenzene	(3)	23.201	91	7450595	23.080
98) Hexachloroethane	(3)	23.657	117	2902571	28.133
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	1752011	21.068
100) 1,2,4-Trichlorobenzene	(3)	26.012	180	2273379	23.548
101) Hexachlorobutadiene	(3)	26.291	225	2589954	28.980
102) Naphthalene	(3)	26.310	128	5719024	22.539

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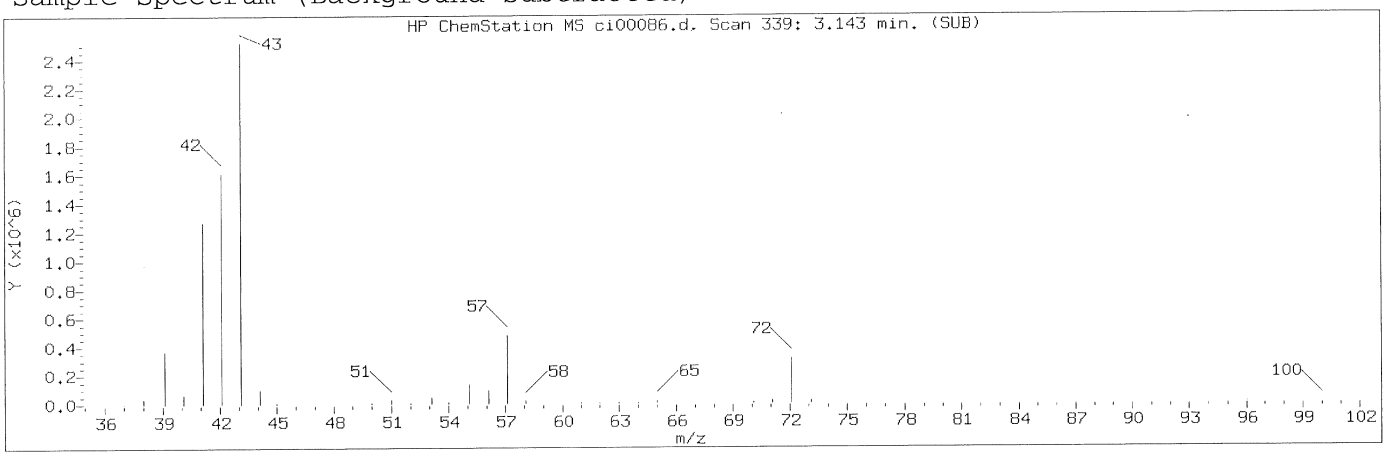
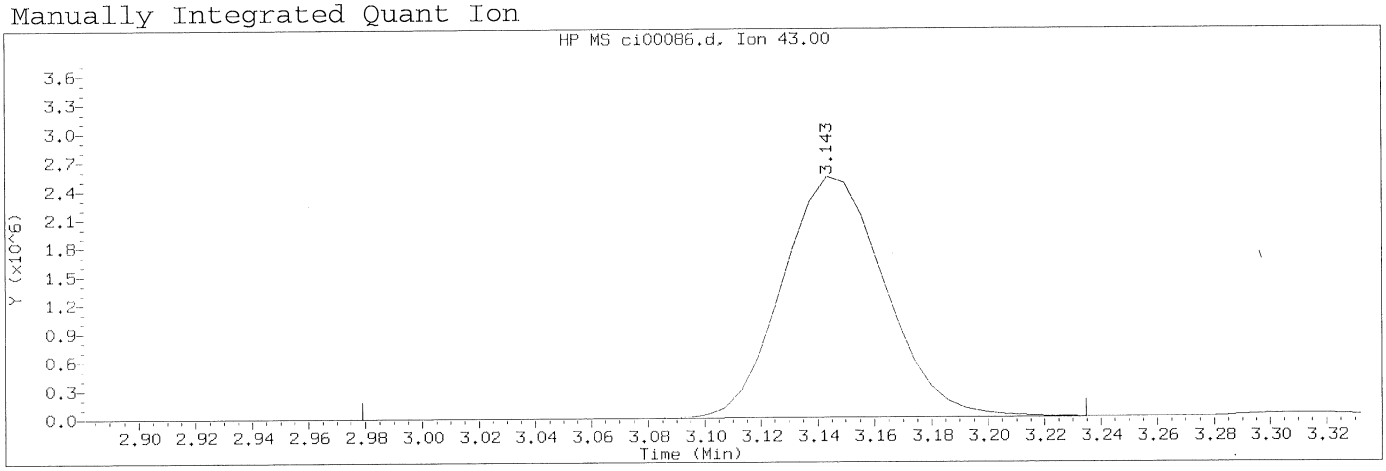
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD025 Lab Sample ID: VSTD025

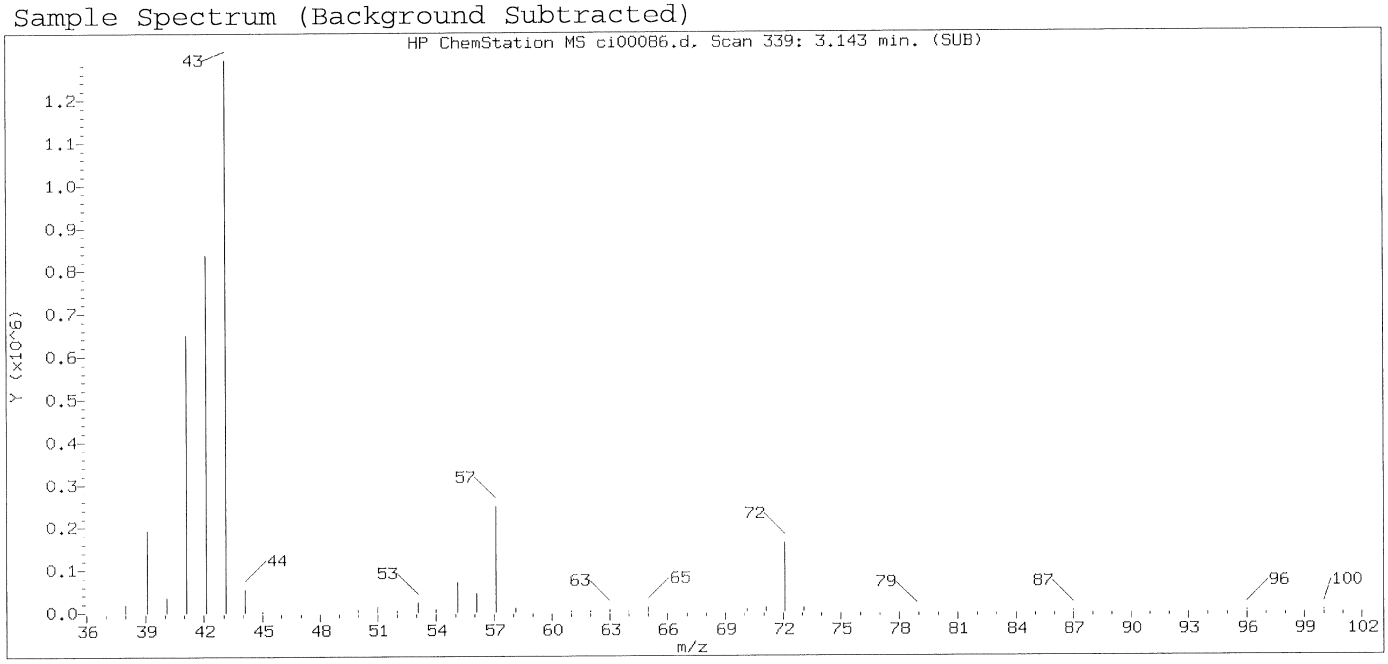
Compound Number : 13
Compound Name : Pentane
Scan Number : 339
Retention Time (minutes): 3.143
Quant Ion : 43.00
Area (flag) : 6364053M
Concentration (ppb(v)) : 19.8398
Integration start scan : 311 Integration stop scan: 353
Y at integration start : 994 Y at integration end: 3116

Reason for manual integration: improper integration

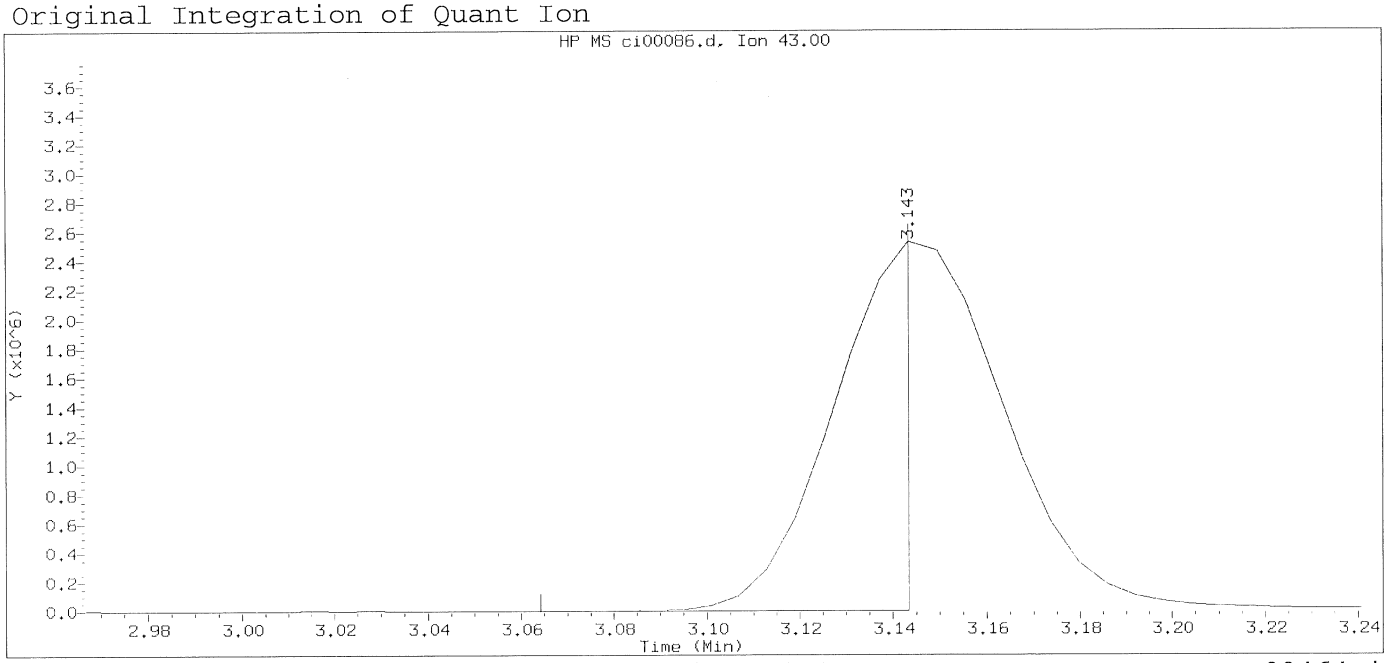
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpl758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00086.d Instrument ID: HP09464.i
Injection date and time: 03-SEP-2015 23:50 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 00:29 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	: 13		
Compound Name	: Pentane		
Scan Number	: 339		
Retention Time (minutes)	: 3.143		
Quant Ion	: 43.00		
Area	: 2756253		
Concentration (ppb(v))	: 8.6402		
Integration start scan	: 325	Integration stop scan:	338
Y at integration start	: 953	Y at integration end:	953

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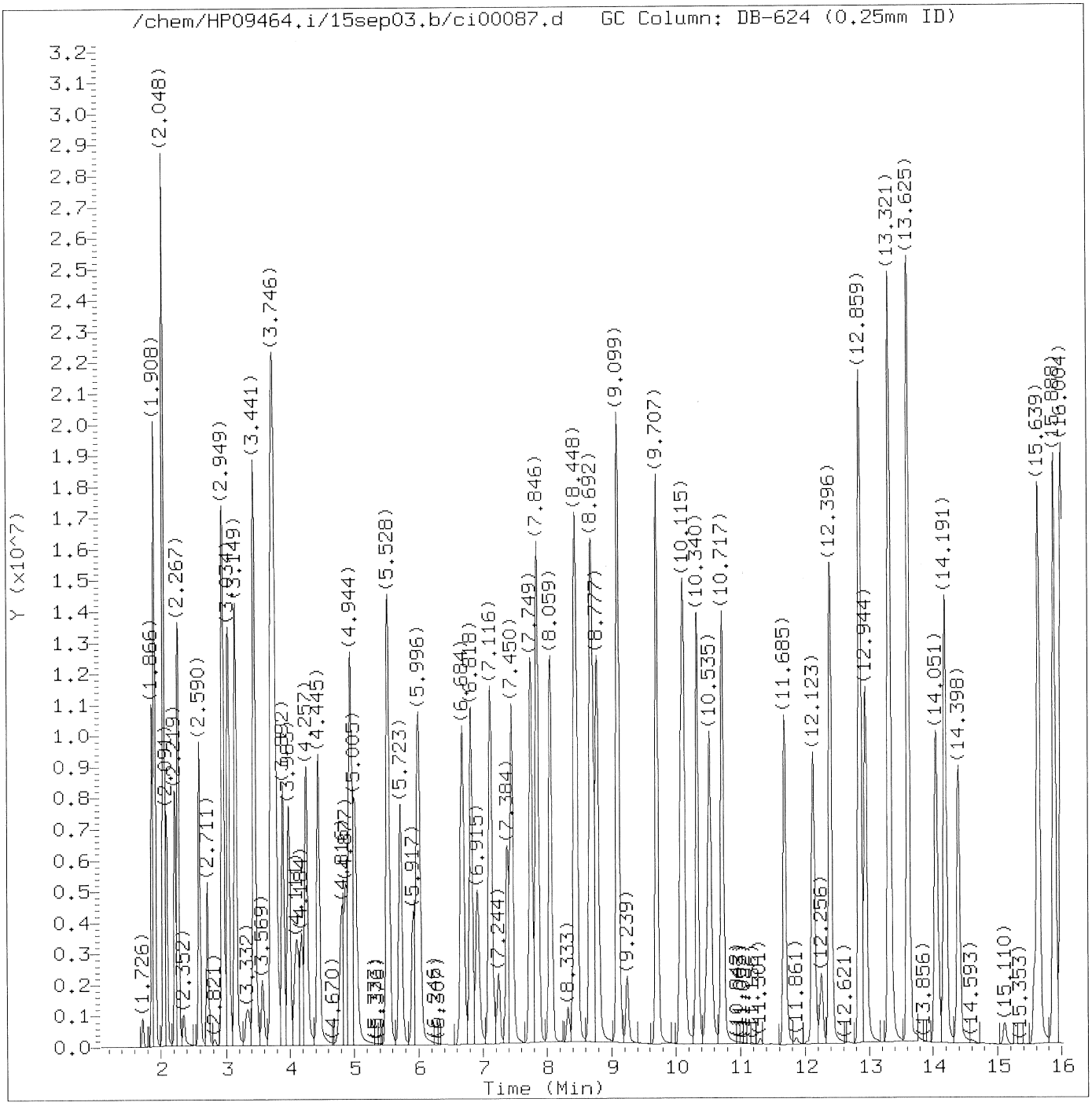
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

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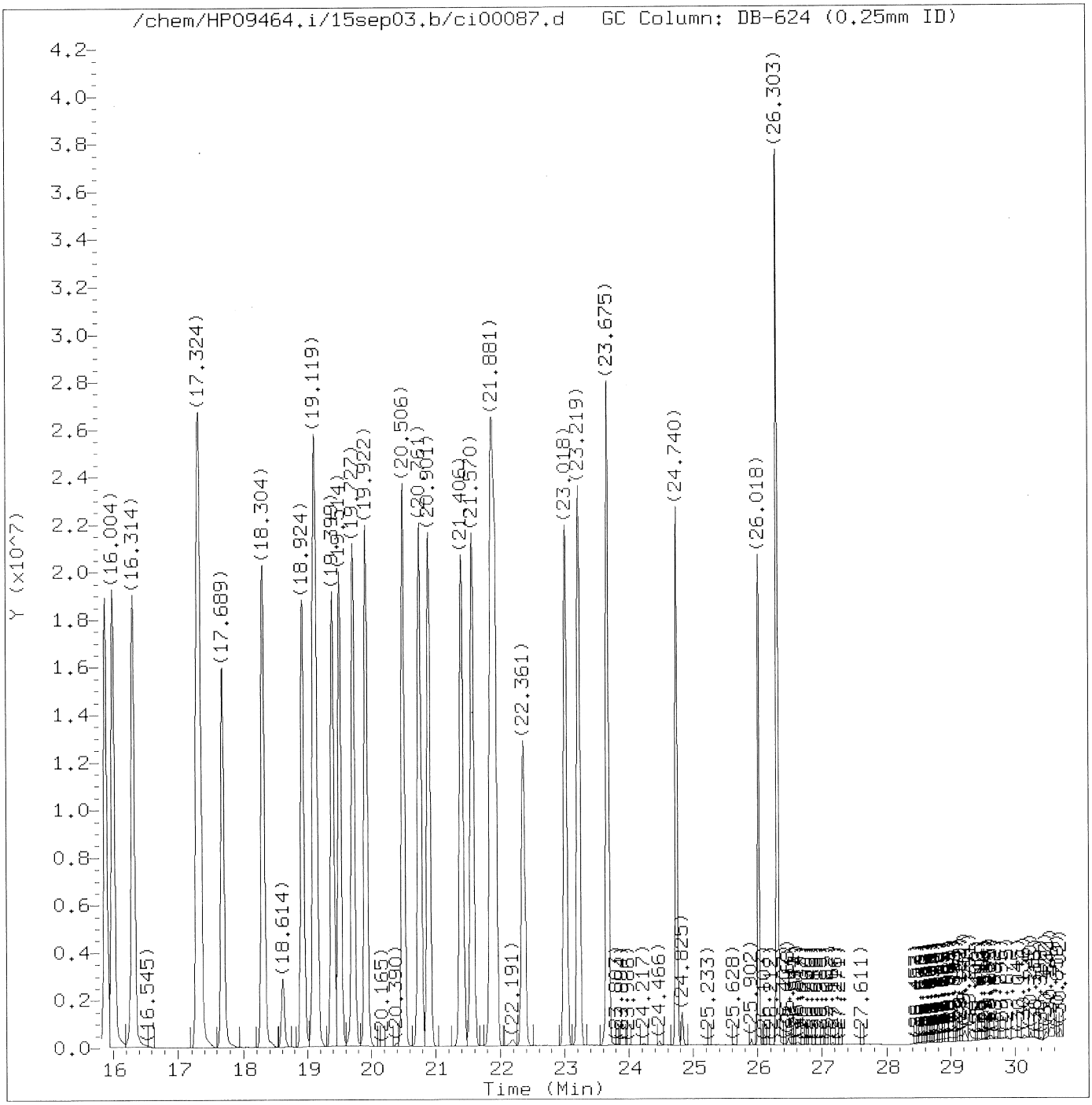
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

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on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	6497518	40.531
2) Dichlorodifluoromethane	(1)	1.908	85	11402325	27.281
3) Chlorodifluoromethane	(1)	1.920	51	9817978	29.480
4) Freon 114	(1)	2.048	85	11782880	30.855
5) Chloromethane	(1)	2.091	52	3603037	49.619
6) Vinyl Chloride	(1)	2.219	62	8591017	43.671
7) 1,3-Butadiene	(1)	2.267	54	7386311	44.680
8) Bromomethane	(1)	2.590	94	7169624	48.520
9) Chloroethane	(1)	2.711	64	5611397	46.815
10) Bromoethene	(1)	2.936	106	7781989	62.918
11) Dichlorofluoromethane	(1)	2.955	67	14319844	33.648
12) Trichlorofluoromethane	(1)	3.034	101	13897266	33.571
13) Pentane	(1)	3.149	43	12796430	32.722
14) Ethanol	(1)	3.320	45	2566724	29.570
15) Freon123a	(1)	3.441	67	14823171	42.495
16) Acrolein	(1)	3.569	56	2625971	63.142
17) 1,1-Dichloroethene	(1)	3.709	61	12540301	40.991
18) Freon 113	(1)	3.752	103	10296367	52.332
19) Acetone	(1)	3.800	43	8476470	58.365
20) Methyl Iodide	(1)	3.892	142	12838514	50.805
21) Carbon Disulfide	(1)	3.989	76	16966689	31.707
22) Isopropanol	(1)	4.111	45	11423656	47.326
23) Acetonitrile	(1)	4.190	40	2963003	67.424
24) 3-Chloropropene	(1)	4.263	76	4786626	58.696
25) Methylene Chloride	(1)	4.445	84	7272912	51.811
26) tert-Butyl Alcohol	(1)	4.816	59	14003222	59.181
27) Acrylonitrile	(1)	4.883	53	6914557	63.687
28) trans-1,2-Dichloroethene	(1)	4.944	61	12199253	35.983
29) Methyl t-Butyl Ether	(1)	5.011	73	16066337	72.142
30) Hexane	(1)	5.528	57	13288847	56.148
31) 1,1-Dichloroethane	(1)	5.723	63	13644307	47.624
32) Vinyl Acetate	(1)	5.917	86	1100976	90.479
33) Di-Isopropyl Ether	(1)	5.996	45	19240640	72.282
36) 1,2-Dichloroethene (total)	(1)		61	23502139	87.151
34) Ethyl Tert-Butyl Ether	(1)	6.684	59	16689749	86.335
35) cis-1,2-Dichloroethene	(1)	6.812	61	11302886	51.167
37) 2-Butanone	(1)	6.915	72	2990053	83.531
38) Ethyl Acetate	(1)	7.110	70	2135274	114.650

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00087.d
Injection date and time: 04-SEP-2015 00:34
Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m
Calibration date and time: 08-SEP-2015 14:46
Sublist used: all
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070
Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.128	55	12435476	88.241
40)*Bromochloromethane	(1)	7.244	130	858079	10.000
41) Tetrahydrofuran	(1)	7.384	42	8320682	79.868
42) Chloroform	(1)	7.450	83	13312283	49.110
43) 1,1,1-Trichloroethane	(1)	7.749	97	13046399	54.867
44) Cyclohexane	(1)	7.846	56	13980075	54.271
45) Carbon Tetrachloride	(1)	8.059	117	12592248	53.714
46) Benzene	(2)	8.442	78	18638439	56.530
47) 1,2-Dichloroethane	(2)	8.473	62	10174009	55.666
48) Isooctane	(2)	8.692	57	27710847	47.812
49) Tert-Amyl Methyl Ether	(2)	8.777	73	15410931	100.971
50) Heptane	(2)	9.099	43	13643259	52.707
51)*1,4-Difluorobenzene	(2)	9.239	114	2321519	10.000
52) Trichloroethene	(2)	9.707	130	8771353	64.729
53) Ethyl Acrylate	(2)	10.079	55	14401822	91.852
54) 1,2-Dichloropropane	(2)	10.121	63	10033548	74.581
55) Dibromomethane	(2)	10.340	174	7084829	81.893
56) 1,4-Dioxane	(2)	10.492	88	3957897	87.127
57) Methyl Methacrylate	(2)	10.535	69	7628700	100.986
58) Bromodichloromethane	(2)	10.717	83	14692403	56.829
59) cis-1,3-Dichloropropene	(2)	11.685	75	11238324	75.194
60) 4-Methyl-2-Pentanone	(2)	12.123	43	13902139	65.788
61) Toluene	(3)	12.402	91	18632590	66.856
64) 1,3-Dichloropropene (total)	(3)		75	23107560	146.979
62) Octane	(3)	12.859	43	16128076	52.392
63) trans-1,3-Dichloropropene	(3)	12.944	75	11869236	71.785
65) Ethyl Methacrylate	(3)	13.315	69	12179623	92.463
66) 1,1,2-Trichloroethane	(3)	13.327	97	9668962	83.703
67) Tetrachloroethene	(3)	13.625	166	12131749	87.324
68) 2-Hexanone	(3)	14.051	43	14245872	57.774
69) Dibromochloromethane	(3)	14.191	127	11378693	73.982
70) 1,2-Dibromoethane	(3)	14.398	107	11940539	71.748
71)*Chlorobenzene-d5	(3)	15.572	117	2438373	10.000
72) Chlorobenzene	(3)	15.645	112	16545731	74.604
73) 1,1,1,2-Tetrachloroethane	(3)	15.888	131	9861816	93.603
74) Ethylbenzene	(3)	16.004	91	21877327M	73.904
75) m/p-Xylene	(3)	16.320	91	19262685	81.358
77) Xylene (total)	(3)		91	40879419	167.730

M = Compound was manually integrated.
* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.294	91	21616734	86.372
78) Styrene	(3)	17.336	104	18129727	95.989
79) Bromoform	(3)	17.689	173	12907858	95.494
80) Cumene	(3)	18.304	105	22684300	84.481
81) Bromobenzene	(3)	18.924	156	10490578	105.452
82) 1,1,2,2-Tetrachloroethane	(3)	19.101	83	18488844	71.533
83) 1,2,3-Trichloropropane	(3)	19.137	110	5709526	97.542
84) n-Propylbenzene	(3)	19.399	120	9972556	128.534
85) 2-Chlorotoluene	(3)	19.514	126	8992943	110.648
86) 4-Ethyltoluene	(3)	19.727	105	22368976	76.480
87) 1,3,5-Trimethylbenzene	(3)	19.922	105	20545845	83.259
88) Alpha Methyl Styrene	(3)	20.506	118	13903009	116.897
89) tert-Butylbenzene	(3)	20.761	119	20351224	97.813
90) 1,2,4-Trimethylbenzene	(3)	20.901	105	20642799	78.936
91) sec-Butylbenzene	(3)	21.406	105	25982637	74.987
92) 1,3-Dichlorobenzene	(3)	21.570	146	17169309	93.074
93) 1,4-Dichlorobenzene	(3)	21.862	146	17897892	95.190
94) p-Isopropyltoluene	(3)	21.923	119	24298501	88.542
95) Benzyl Chloride	(3)	22.361	91	20265669	73.574
96) 1,2-Dichlorobenzene	(3)	23.018	146	15540374	90.687
97) n-Butylbenzene	(3)	23.219	91	20804662	64.314
98) Hexachloroethane	(3)	23.669	117	10787374	104.341
99) 1,2-Dibromo-3-chloropropane	(3)	24.740	157	8063863	96.767
100) 1,2,4-Trichlorobenzene	(3)	26.018	180	5247763	54.245
101) Hexachlorobutadiene	(3)	26.297	225	5734042	64.027
102) Naphthalene	(3)	26.310	128	9774181	38.441

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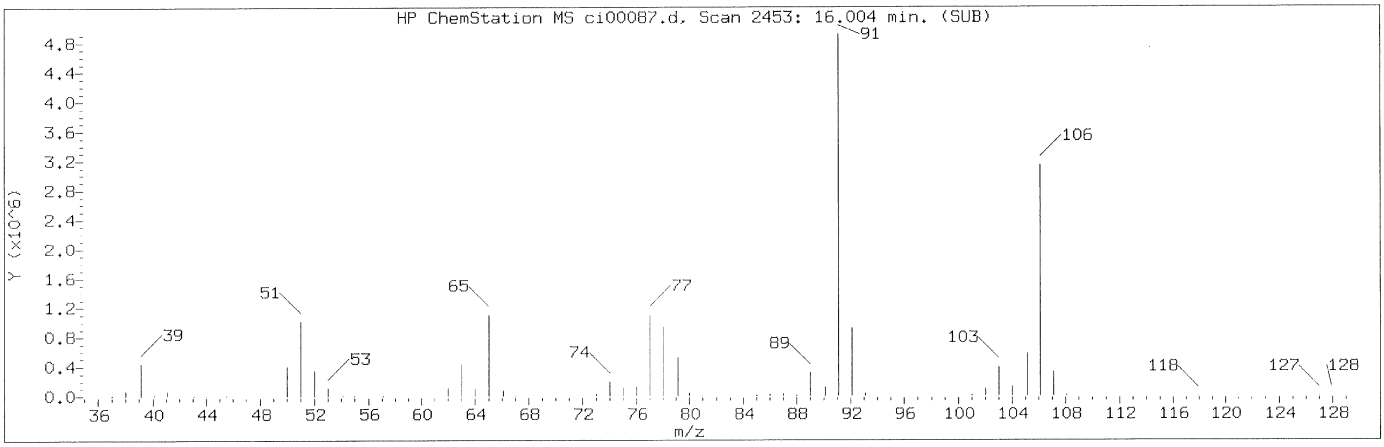
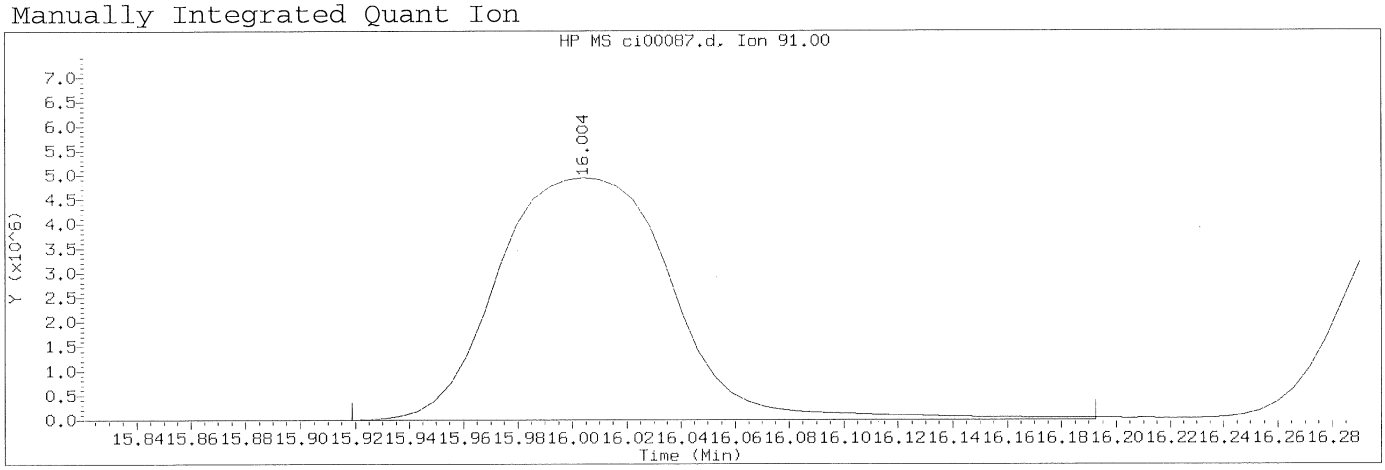
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:46
Date, time and analyst ID of latest file update: 08-Sep-2015 14:46 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

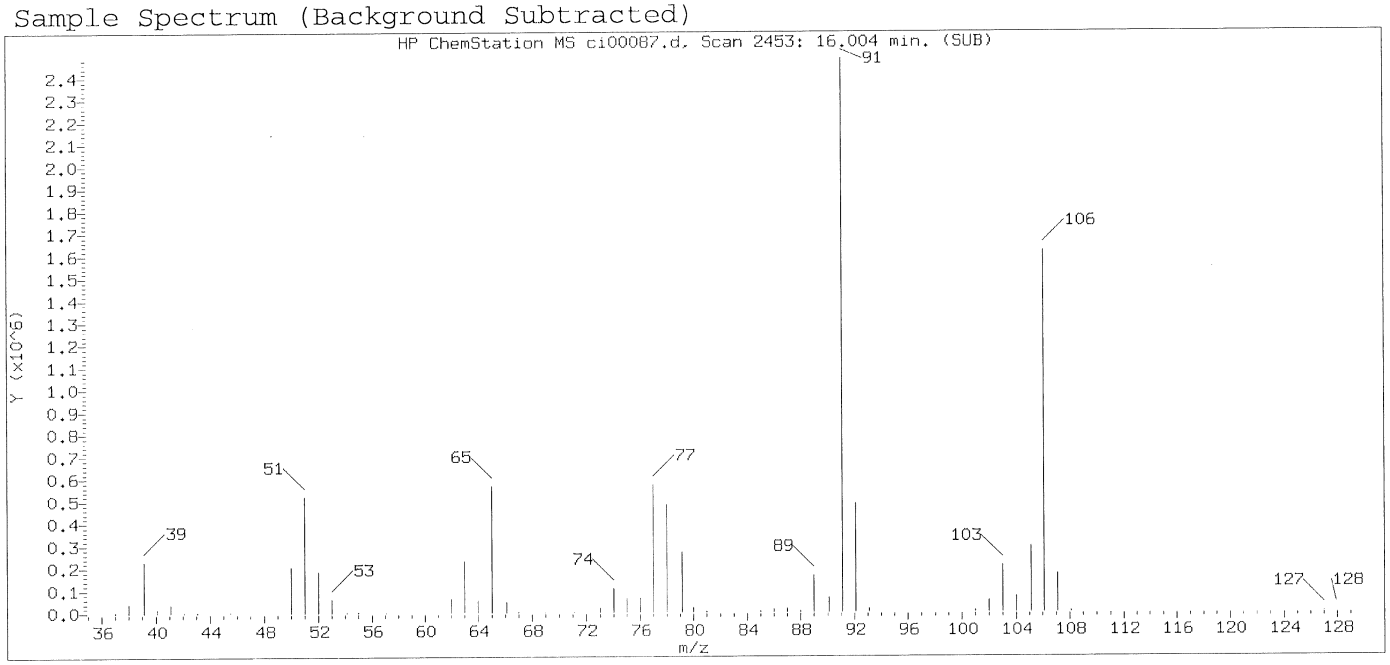
Compound Number : 74
Compound Name : Ethylbenzene
Scan Number : 2453
Retention Time (minutes): 16.004
Quant Ion : 91.00
Area (flag) : 21877327M
Concentration (ppb(v)) : 73.9038
Integration start scan : 2438 Integration stop scan: 2483
Y at integration start : 1414 Y at integration end: 1414

Reason for manual integration: improper integration

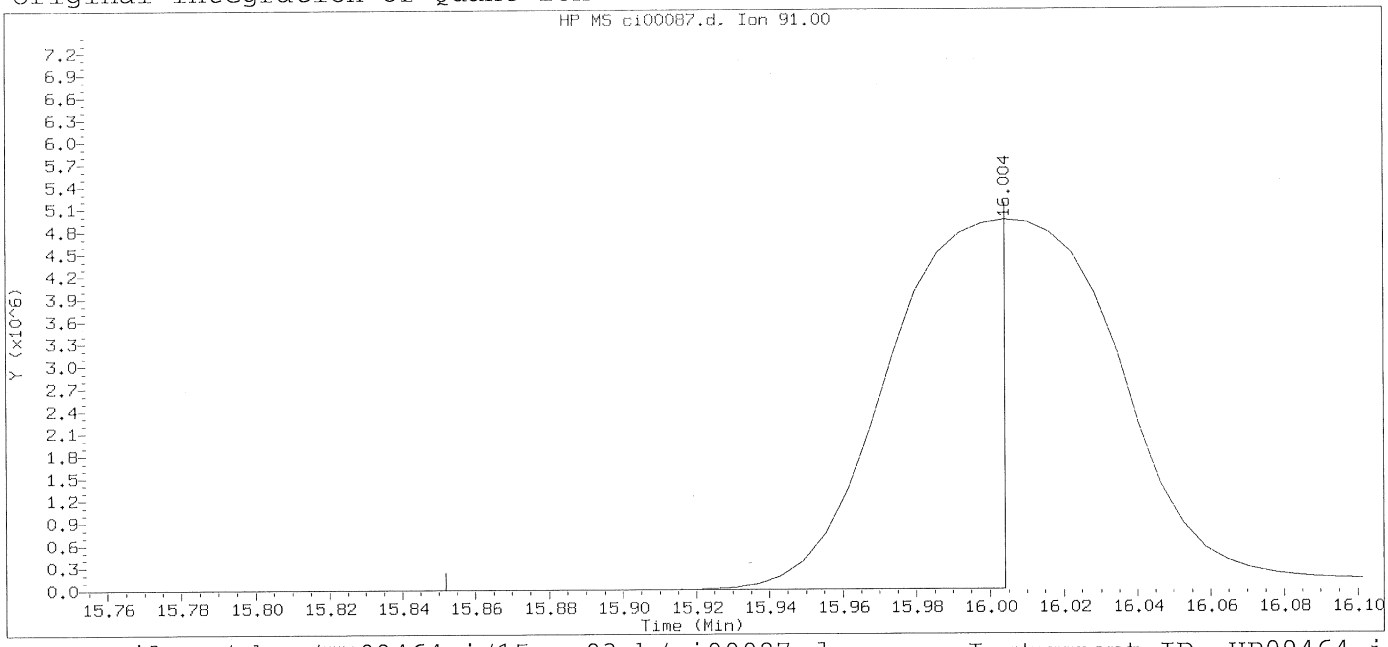
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



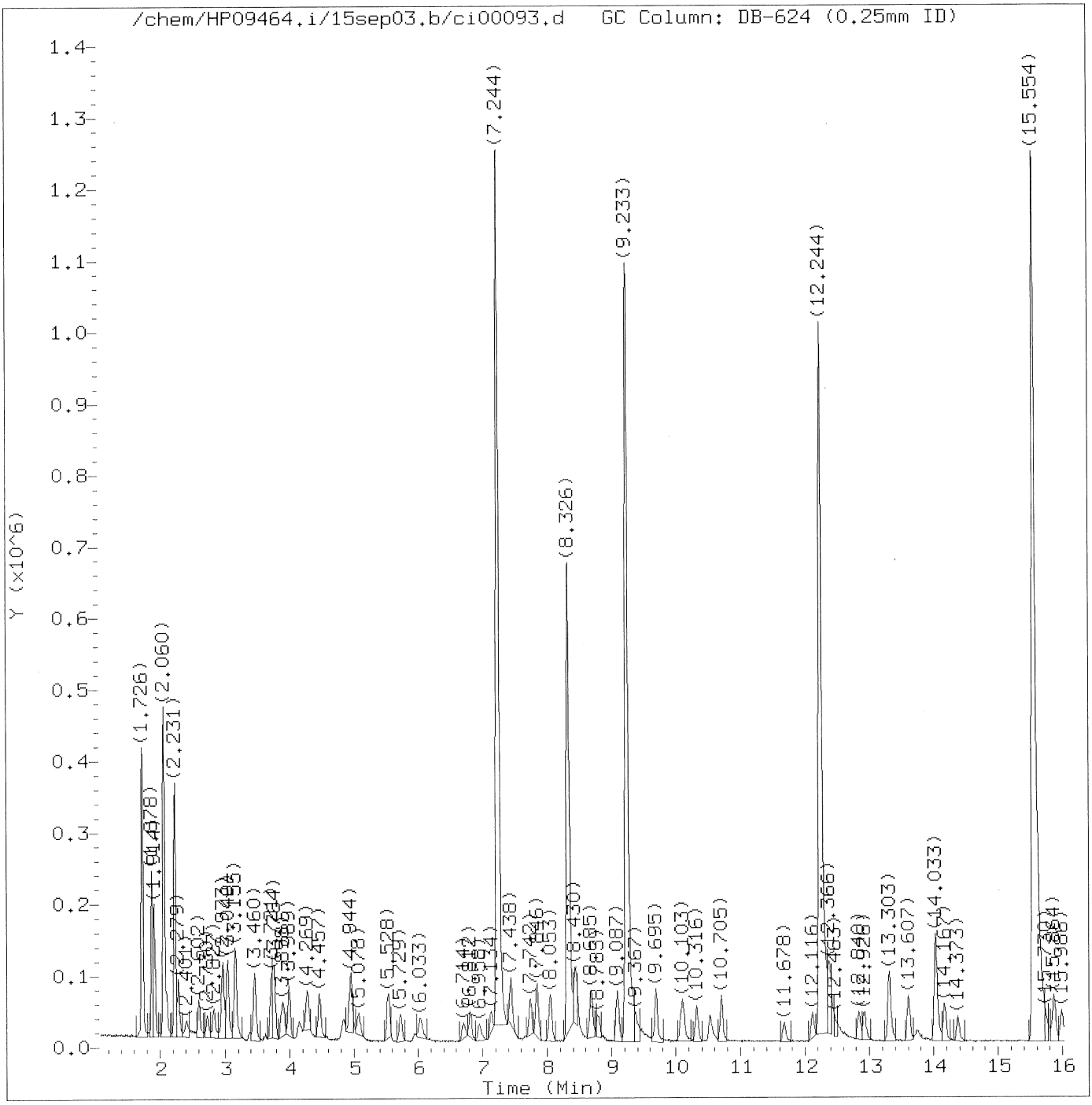
Data File: /chem/HP09464.i/15sep03.b/ci00087.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 00:34 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 01:13 Automation

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compound Number	: 74		
Compound Name	: Ethylbenzene		
Scan Number	: 2453		
Retention Time (minutes)	: 16.004		
Quant Ion	: 91.00		
Area	: 10461640		
Concentration (ppb(v))	: 38.4608		
Integration start scan	: 2427	Integration stop scan:	2452
Y at integration start	: 713	Y at integration end:	713

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:46.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

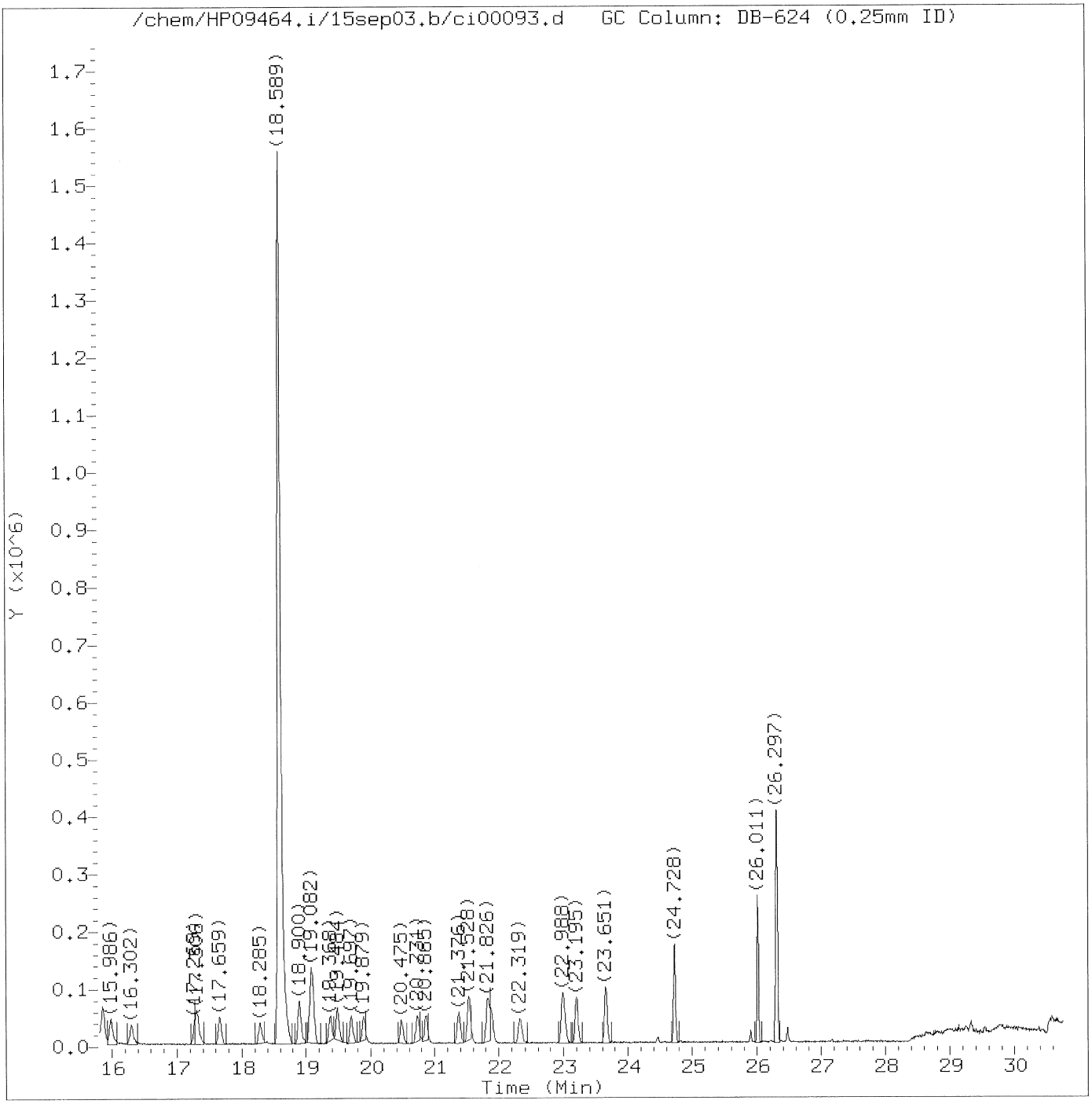
Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00093.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00093.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

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on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00093.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	51268	0.547
2) Dichlorodifluoromethane	(1)	1.914	85	123282	0.504
3) Chlorodifluoromethane	(1)	1.920	51	101605	0.522
4) Freon 114	(1)	2.054	85	105230	0.471
5) Chloromethane	(1)	2.103	52	21124	0.497
6) Vinyl Chloride	(1)	2.231	62	57829	0.503
7) 1,3-Butadiene	(1)	2.285	54	39234	0.406
8) Bromomethane	(1)	2.602	94	37057	0.429
9) Chloroethane	(1)	2.730	64	29132	0.416
10) Bromoethene	(1)	2.949	106	31610	0.437
11) Dichlorofluoromethane	(1)	2.973	67	123788	0.497
12) Trichlorofluoromethane	(1)	3.040	101	114734	0.474
13) Pentane	(1)	3.155	43	105725	0.462
14) Ethanol	(1)	3.374	45	24842	0.489
15) Freon123a	(1)	3.460	67	98584	0.483
16) Acrolein	(1)	3.630	56	10429	0.429
17) 1,1-Dichloroethene	(1)	3.715	61	83564	0.467
18) Freon 113	(1)	3.764	103	47093	0.409
19) Acetone	(1)	3.873	43	70546	0.830
20) Methyl Iodide	(1)	3.904	142	65577	0.444
21) Carbon Disulfide	(1)	3.989	76	150436	0.481
22) Isopropanol	(1)	4.153	45	68442	0.485
23) Acetonitrile	(1)	4.256	40	38558	1.500
24) 3-Chloropropene	(1)	4.287	76	21238	0.445
25) Methylene Chloride	(1)	4.457	84	42196	0.514
26) tert-Butyl Alcohol	(1)	4.834	59	70835	0.512
27) Acrylonitrile	(1)	4.926	53	39140	0.616
28) trans-1,2-Dichloroethene	(1)	4.956	61	90734	0.458
29) Methyl t-Butyl Ether	(1)	5.072	73	56405	0.433
30) Hexane	(1)	5.540	57	46602	0.337
31) 1,1-Dichloroethane	(1)	5.729	63	78812	0.470
33) Di-Isopropyl Ether	(1)	6.039	45	57312	0.368
36) 1,2-Dichloroethene (total)	(1)		61	140470	0.842
34) Ethyl Tert-Butyl Ether	(1)	6.720	59	39171	0.346
35) cis-1,2-Dichloroethene	(1)	6.812	61	49736	0.385
37) 2-Butanone	(1)	6.952	72	10492	0.501
38) Ethyl Acetate	(1)	7.134	70	4782	0.439
39) Methyl Acrylate	(1)	7.152	55	42086	0.511

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00093.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.244	130	501901	10.000
41) Tetrahydrofuran	(1)	7.438	42	25201	0.414
42) Chloroform	(1)	7.450	83	73456	0.463
43) 1,1,1-Trichloroethane	(1)	7.742	97	64062	0.461
44) Cyclohexane	(1)	7.852	56	51990	0.345
45) Carbon Tetrachloride	(1)	8.053	117	65322	0.476
46) Benzene	(2)	8.430	78	95671	0.548
47) 1,2-Dichloroethane	(2)	8.466	62	56938	0.588
48) Isooctane	(2)	8.685	57	108616	0.354
49) Tert-Amyl Methyl Ether	(2)	8.783	73	35876	0.444
50) Heptane	(2)	9.093	43	52504	0.383
51)*1,4-Difluorobenzene	(2)	9.233	114	1229272	10.000
52) Trichloroethene	(2)	9.695	130	30997	0.432
53) Ethyl Acrylate	(2)	10.066	55	53268	0.642
54) 1,2-Dichloropropane	(2)	10.115	63	36327	0.510
55) Dibromomethane	(2)	10.322	174	23068	0.504
56) 1,4-Dioxane	(2)	10.523	88	14689	0.611
57) Methyl Methacrylate	(2)	10.523	69	21206	0.530
58) Bromodichloromethane	(2)	10.705	83	77183	0.564
59) cis-1,3-Dichloropropene	(2)	11.678	75	33451	0.423
60) 4-Methyl-2-Pentanone	(2)	12.116	43	67183	0.600
61) Toluene	(3)	12.384	91	74369	0.502
64) 1,3-Dichloropropene (total)	(3)		75	79792	0.950
62) Octane	(3)	12.834	43	39496	0.241
63) trans-1,3-Dichloropropene	(3)	12.932	75	46341	0.527
65) Ethyl Methacrylate	(3)	13.297	69	43246	0.618
66) 1,1,2-Trichloroethane	(3)	13.303	97	33782	0.550
67) Tetrachloroethene	(3)	13.607	166	28016	0.379
68) 2-Hexanone	(3)	14.033	43	235000	1.793
69) Dibromochloromethane	(3)	14.167	127	39142	0.479
70) 1,2-Dibromoethane	(3)	14.373	107	48369	0.547
71)*Chlorobenzene-d5	(3)	15.554	117	1295906	10.000
72) Chlorobenzene	(3)	15.621	112	61435	0.521
73) 1,1,1,2-Tetrachloroethane	(3)	15.876	131	31564	0.564
74) Ethylbenzene	(3)	15.986	91	76451	0.486
75) m/p-Xylene	(3)	16.302	91	55849	0.444
77) Xylene (total)	(3)		91	115059	0.889
76) o-Xylene	(3)	17.269	91	59210	0.445

* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00093.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78)	Styrene	(3)	17.312	104	45605	0.454
79)	Bromoform	(3)	17.659	173	39958	0.556
80)	Cumene	(3)	18.279	105	61498	0.431
81)	Bromobenzene	(3)	18.900	156	28788	0.544
82)	1,1,2,2-Tetrachloroethane	(3)	19.076	83	103196	0.751
83)	1,2,3-Trichloropropane	(3)	19.107	110	18798	0.604
84)	n-Propylbenzene	(3)	19.368	120	15801	0.383
85)	2-Chlorotoluene	(3)	19.484	126	20909	0.484
86)	4-Ethyltoluene	(3)	19.703	105	73184	0.471
87)	1,3,5-Trimethylbenzene	(3)	19.891	105	65316	0.498
88)	Alpha Methyl Styrene	(3)	20.475	118	26854	0.425
89)	tert-Butylbenzene	(3)	20.743	119	47309	0.428
90)	1,2,4-Trimethylbenzene	(3)	20.859	105	66799	0.481
91)	sec-Butylbenzene	(3)	21.376	105	84144	0.457
92)	1,3-Dichlorobenzene	(3)	21.540	146	68408	0.698
93)	1,4-Dichlorobenzene	(3)	21.832	146	66207	0.663
94)	p-Isopropyltoluene	(3)	21.893	119	64468	0.442
95)	Benzyl Chloride	(3)	22.319	91	80079	0.547
96)	1,2-Dichlorobenzene	(3)	22.994	146	63288	0.695
97)	n-Butylbenzene	(3)	23.195	91	95048	0.553
98)	Hexachloroethane	(3)	23.657	117	36284	0.660
99)	1,2-Dibromo-3-chloropropane	(3)	24.728	157	39574	0.894
100)	1,2,4-Trichlorobenzene	(3)	26.011	180	60544	1.178
101)	Hexachlorobutadiene	(3)	26.291	225	37832	0.795
102)	Naphthalene	(3)	26.309	128	194108	1.436

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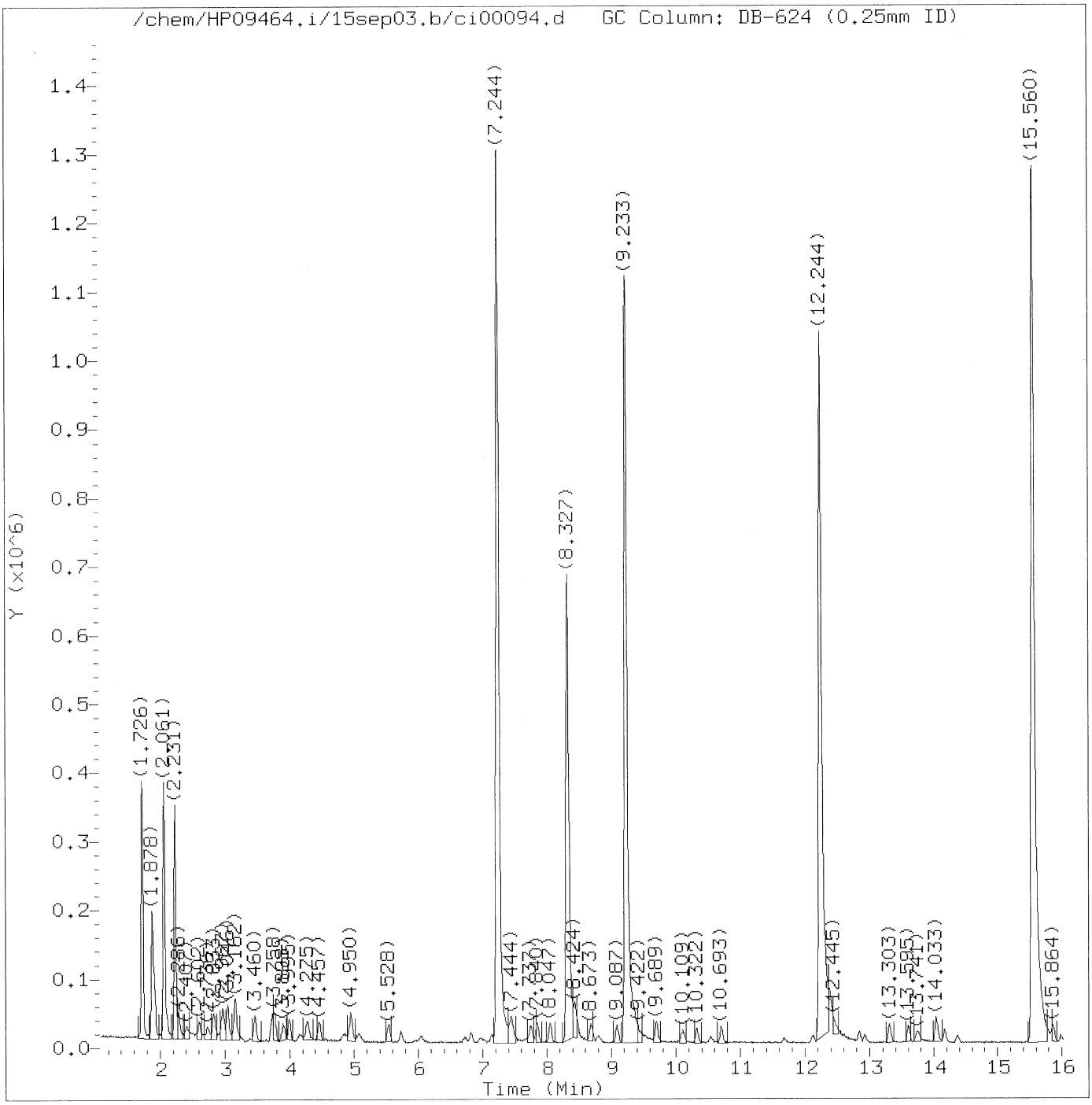
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

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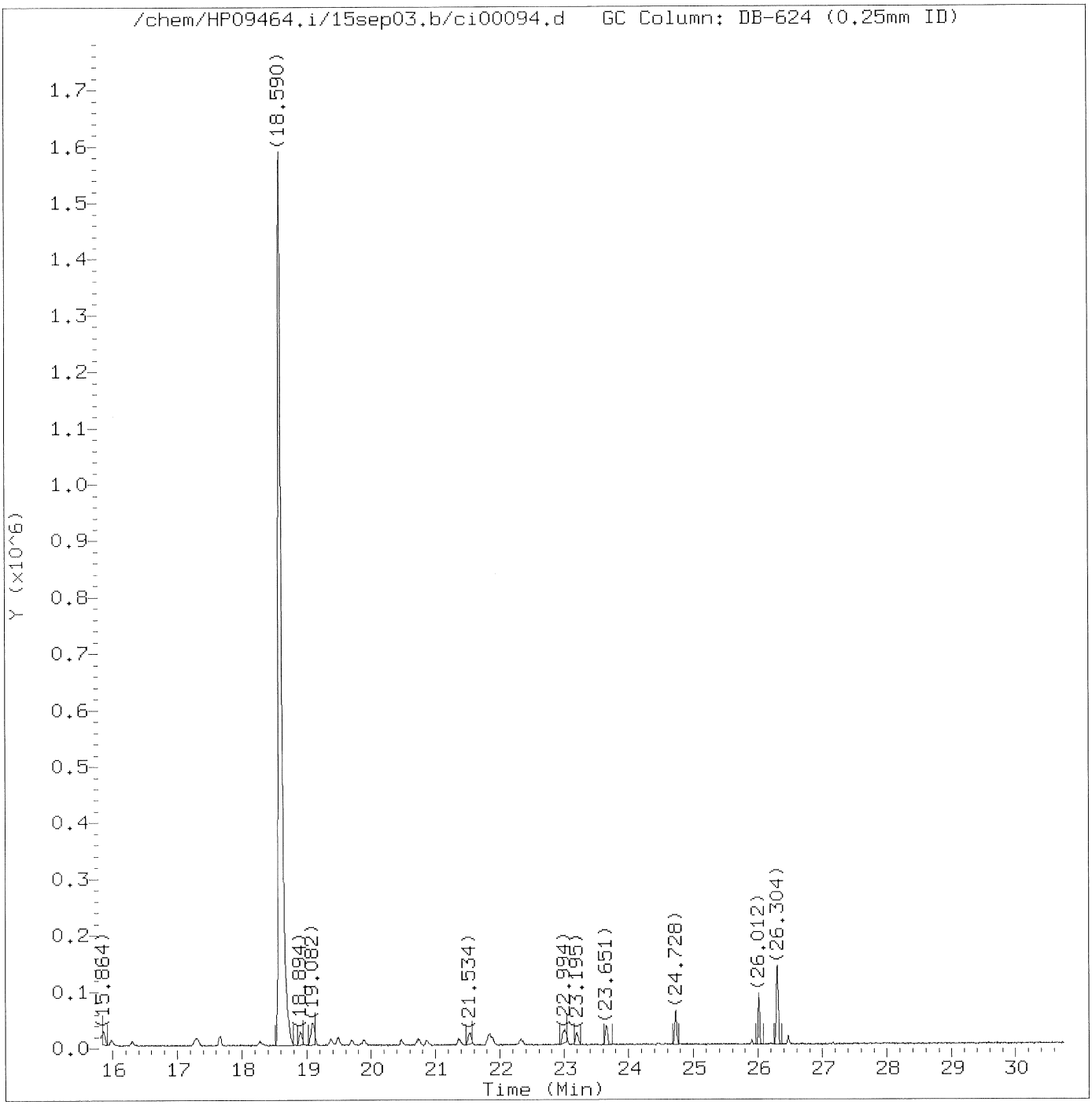
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	25195	0.265
2) Dichlorodifluoromethane	(1)	1.908	85	56860	0.229
3) Chlorodifluoromethane	(1)	1.921	51	46242	0.234
4) Freon 114	(1)	2.054	85	46753	0.206
5) Chloromethane	(1)	2.109	52	9422	0.219
6) Vinyl Chloride	(1)	2.231	62	24591	0.211
7) 1,3-Butadiene	(1)	2.292	54	15861	0.162
8) Bromomethane	(1)	2.602	94	15812	0.180
9) Chloroethane	(1)	2.730	64	12701	0.179
10) Bromoethene	(1)	2.949	106	11353	0.155
11) Dichlorofluoromethane	(1)	2.973	67	54483	0.216
12) Trichlorofluoromethane	(1)	3.046	101	49776	0.203
13) Pentane	(1)	3.156	43	44097	0.190
14) Ethanol	(1)	3.387	45	9506	0.185
15) Freon123a	(1)	3.460	67	41257	0.199
16) Acrolein	(1)	3.630	56	2378	0.096
17) 1,1-Dichloroethene	(1)	3.715	61	34782	0.192
18) Freon 113	(1)	3.758	103	20544	0.176
19) Acetone	(1)	3.880	43	27828	0.323
20) Methyl Iodide	(1)	3.904	142	27754	0.185
21) Carbon Disulfide	(1)	3.995	76	67383	0.212
22) Isopropanol	(1)	4.165	45	34705M	0.242
23) Acetonitrile	(1)	4.269	40	13200	0.506
24) 3-Chloropropene	(1)	4.281	76	8859	0.183
25) Methylene Chloride	(1)	4.464	84	19512	0.234
26) tert-Butyl Alcohol	(1)	4.847	59	30437M	0.217
27) Acrylonitrile	(1)	4.938	53	11813	0.183
28) trans-1,2-Dichloroethene	(1)	4.956	61	38307	0.190
29) Methyl t-Butyl Ether	(1)	5.090	73	17286	0.131
30) Hexane	(1)	5.528	57	17828	0.127
31) 1,1-Dichloroethane	(1)	5.729	63	31931	0.188
33) Di-Isopropyl Ether	(1)	6.051	45	15241	0.096
36) 1,2-Dichloroethene (total)	(1)		61	56014	0.325
34) Ethyl Tert-Butyl Ether	(1)	6.714	59	9099M	0.079
35) cis-1,2-Dichloroethene	(1)	6.818	61	17707	0.135
37) 2-Butanone	(1)	6.946	72	1422M	0.067
39) Methyl Acrylate	(1)	7.159	55	8870M	0.106
40)*Bromochloromethane	(1)	7.244	130	509237	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
41) Tetrahydrofuran	(1)	7.438	42	6818	0.110
42) Chloroform	(1)	7.444	83	30689	0.191
43) 1,1,1-Trichloroethane	(1)	7.743	97	26525	0.188
44) Cyclohexane	(1)	7.840	56	17187	0.112
45) Carbon Tetrachloride	(1)	8.053	117	27437	0.197
46) Benzene	(2)	8.436	78	31846M	0.183
47) 1,2-Dichloroethane	(2)	8.467	62	20065M	0.208
48) Isooctane	(2)	8.686	57	37242M	0.122
49) Tert-Amyl Methyl Ether	(2)	8.795	73	9266	0.115
50) Heptane	(2)	9.093	43	16164	0.118
51)*1,4-Difluorobenzene	(2)	9.239	114	1227682	10.000
52) Trichloroethene	(2)	9.695	130	13816	0.193
53) Ethyl Acrylate	(2)	10.091	55	16002M	0.193
54) 1,2-Dichloropropane	(2)	10.115	63	12414M	0.174
55) Dibromomethane	(2)	10.328	174	9509	0.208
57) Methyl Methacrylate	(2)	10.541	69	4127M	0.103
56) 1,4-Dioxane	(2)	10.565	88	1217M	0.051
58) Bromodichloromethane	(2)	10.693	83	27399	0.200
59) cis-1,3-Dichloropropene	(2)	11.679	75	10008	0.127
60) 4-Methyl-2-Pentanone	(2)	12.111	43	19901	0.178
61) Toluene	(3)	12.384	91	27035M	0.180
64) 1,3-Dichloropropene (total)	(3)		75	23162	0.274
62) Octane	(3)	12.841	43	11198M	0.068
63) trans-1,3-Dichloropropene	(3)	12.926	75	13154	0.148
65) Ethyl Methacrylate	(3)	13.303	69	11146	0.157
66) 1,1,2-Trichloroethane	(3)	13.309	97	11043	0.177
67) Tetrachloroethene	(3)	13.601	166	12029	0.161
68) 2-Hexanone	(3)	14.033	43	61894	0.466
69) Dibromochloromethane	(3)	14.161	127	14367	0.173
70) 1,2-Dibromoethane	(3)	14.374	107	16397	0.183
71)*Chlorobenzene-d5	(3)	15.560	117	1313768	10.000
72) Chlorobenzene	(3)	15.621	112	24124	0.202
73) 1,1,1,2-Tetrachloroethane	(3)	15.858	131	9279	0.163
74) Ethylbenzene	(3)	15.986	91	20882M	0.131
75) m/p-Xylene	(3)	16.308	91	14825	0.116
77) Xylene (total)	(3)		91	29776	0.227
76) o-Xylene	(3)	17.276	91	14951	0.111
78) Styrene	(3)	17.318	104	10372M	0.102

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	17.653	173	12866	0.177
80) Cumene	(3)	18.298	105	15799M	0.109
81) Bromobenzene	(3)	18.888	156	9885	0.184
82) 1,1,2,2-Tetrachloroethane	(3)	19.070	83	34948	0.251
83) 1,2,3-Trichloropropane	(3)	19.113	110	6485	0.206
84) n-Propylbenzene	(3)	19.368	120	3339M	0.080
85) 2-Chlorotoluene	(3)	19.484	126	4975	0.114
86) 4-Ethyltoluene	(3)	19.691	105	19392	0.123
87) 1,3,5-Trimethylbenzene	(3)	19.892	105	17458	0.131
88) Alpha Methyl Styrene	(3)	20.463	118	6552	0.102
89) tert-Butylbenzene	(3)	20.743	119	12822	0.114
90) 1,2,4-Trimethylbenzene	(3)	20.871	105	16908	0.120
91) sec-Butylbenzene	(3)	21.382	105	22784	0.122
92) 1,3-Dichlorobenzene	(3)	21.534	146	19917	0.200
93) 1,4-Dichlorobenzene	(3)	21.832	146	19850	0.196
94) p-Isopropyltoluene	(3)	21.881	119	16833	0.114
95) Benzyl Chloride	(3)	22.325	91	24173	0.163
96) 1,2-Dichlorobenzene	(3)	22.982	146	20215	0.219
97) n-Butylbenzene	(3)	23.195	91	28861	0.166
98) Hexachloroethane	(3)	23.651	117	12285	0.221
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	13612	0.303
100) 1,2,4-Trichlorobenzene	(3)	26.012	180	22936	0.440
101) Hexachlorobutadiene	(3)	26.291	225	14596	0.302
102) Naphthalene	(3)	26.310	128	66246	0.484

M = Compound was manually integrated.

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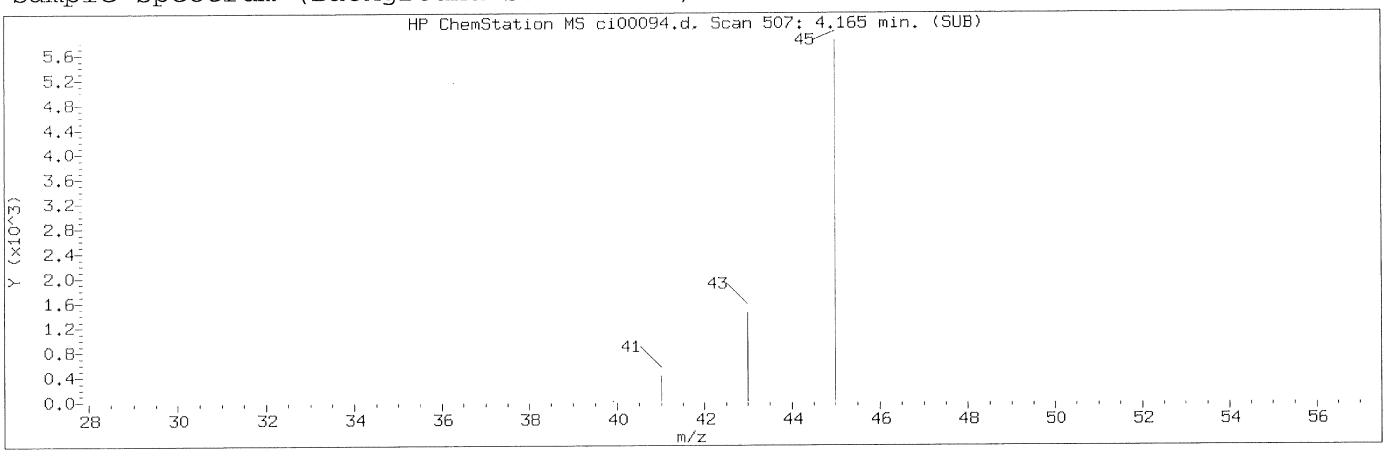
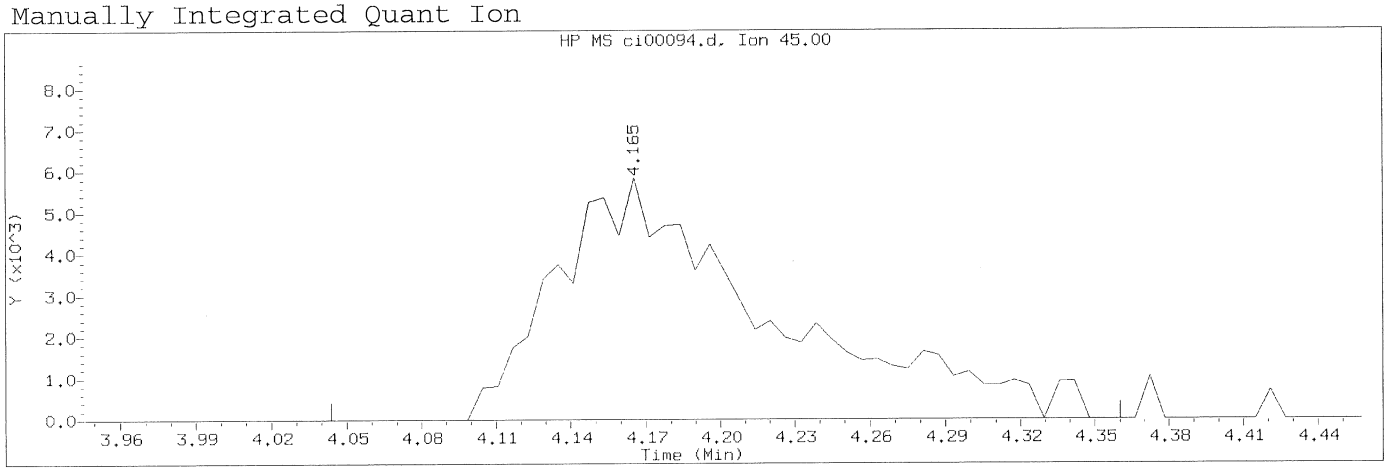
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

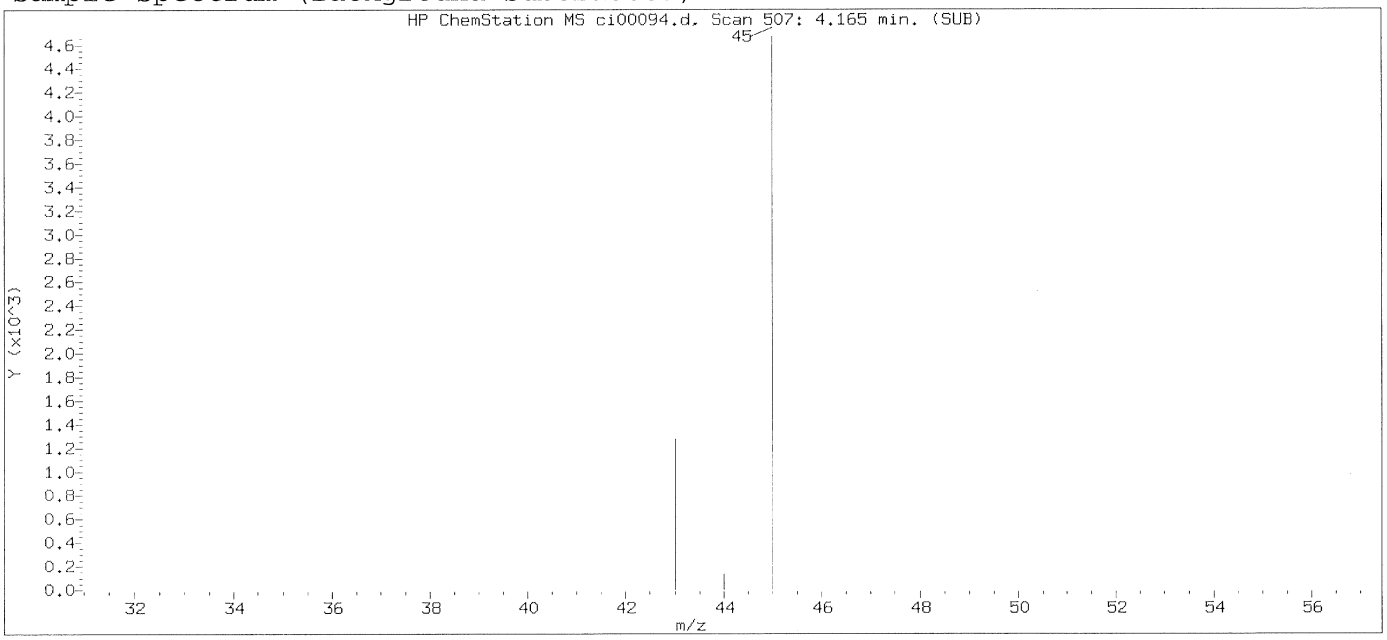
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 507		
Retention Time (minutes)	: 4.165		
Quant Ion	: 45.00		
Area (flag)	: 34705M		
Concentration (ppb(v))	: 0.2423		
Integration start scan	: 486	Integration stop scan:	538
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

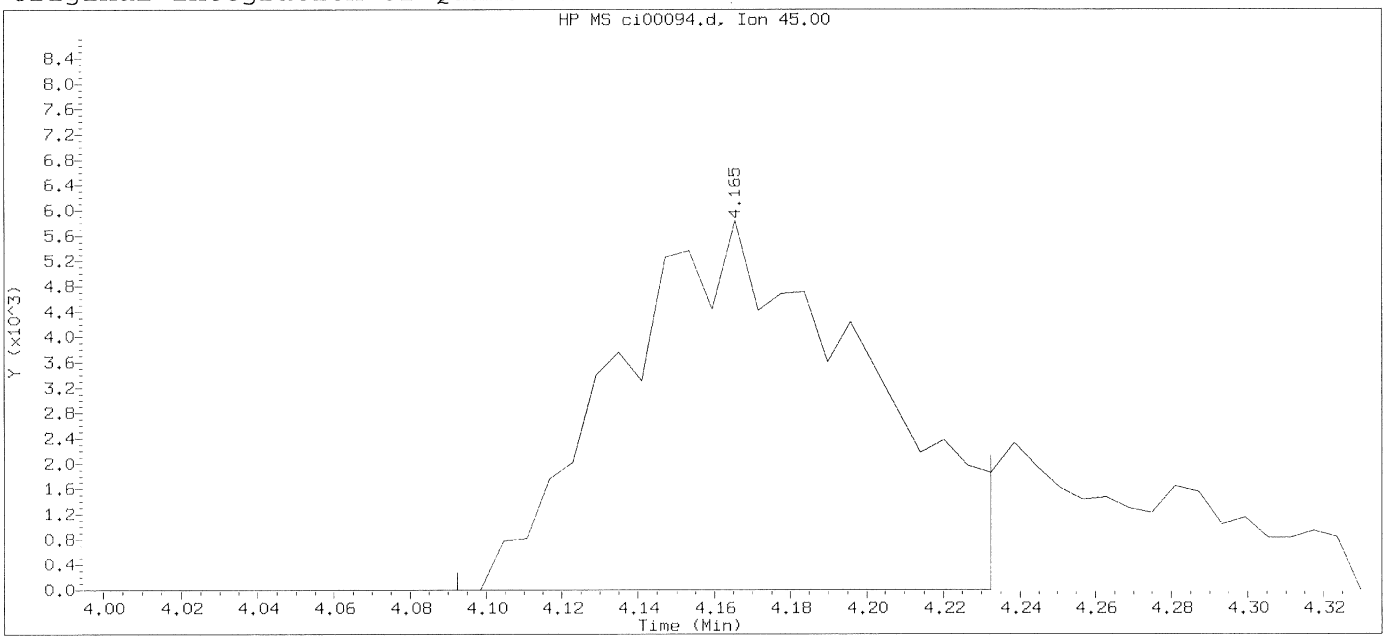
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpo1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

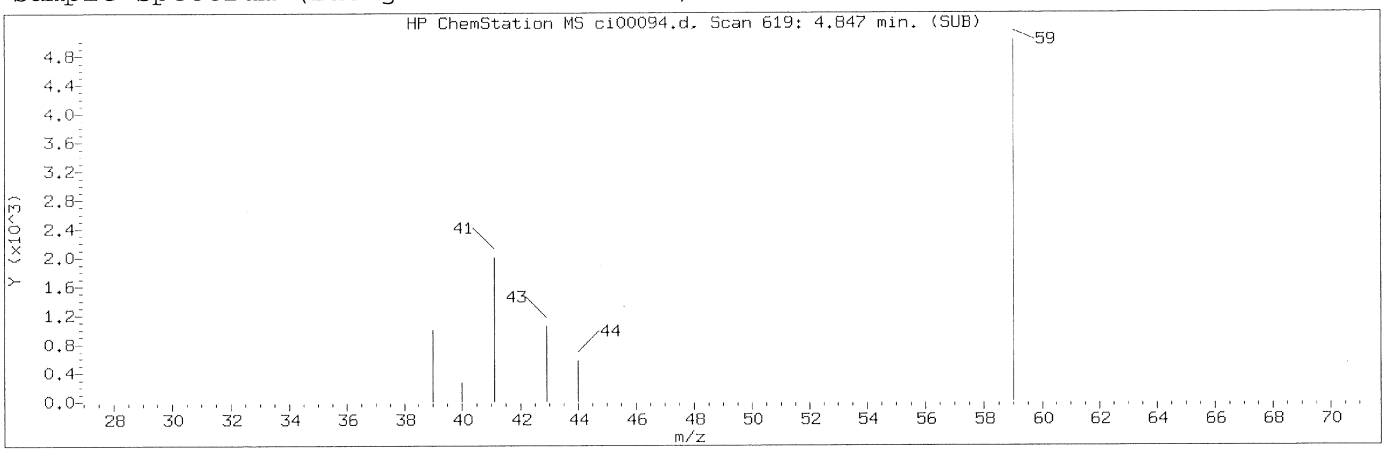
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

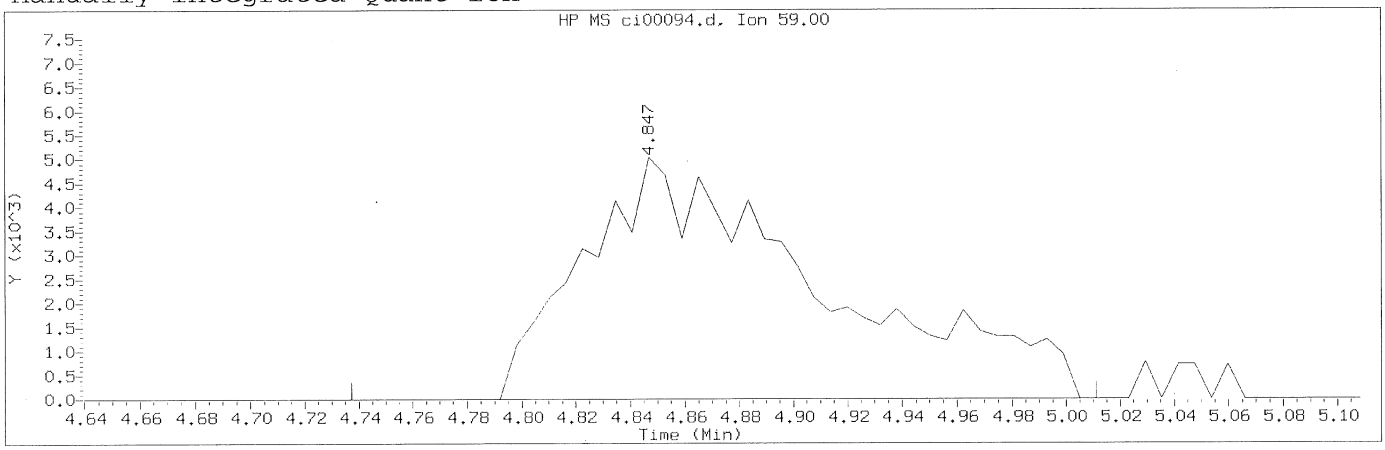
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 507		
Retention Time (minutes)	: 4.165		
Quant Ion	: 45.00		
Area	: 26368		
Concentration (ppb(v))	: 0.1721		
Integration start scan	: 494	Integration stop scan:	517
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

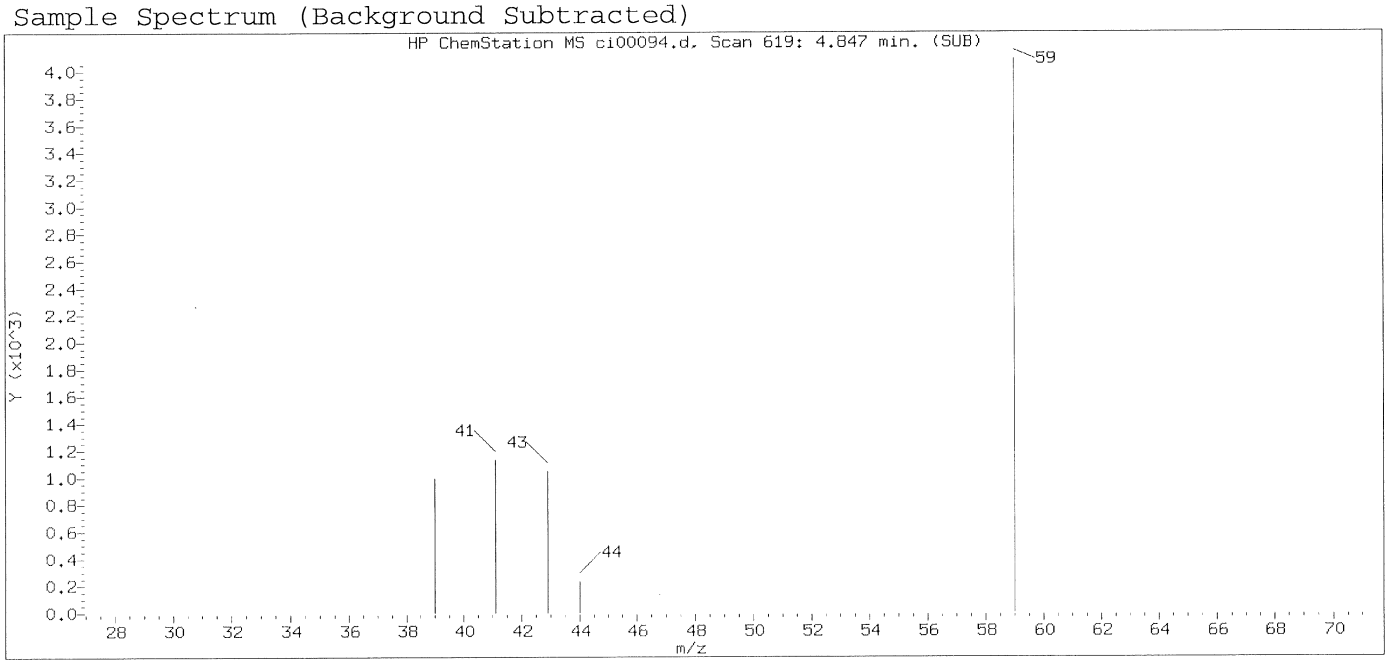
Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 619		
Retention Time (minutes)	: 4.847		
Quant Ion	: 59.00		
Area (flag)	: 30437M		
Concentration (ppb(v))	: 0.2168		
Integration start scan	: 600	Integration stop scan:	645
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

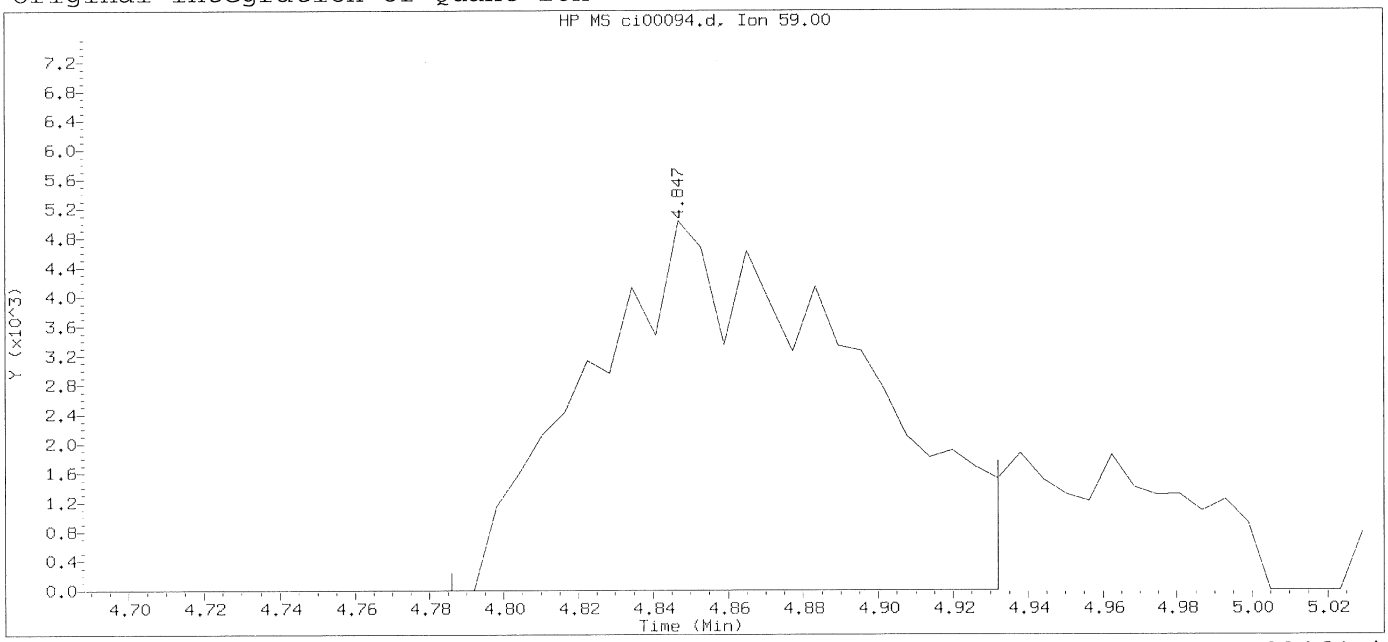
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: MP1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

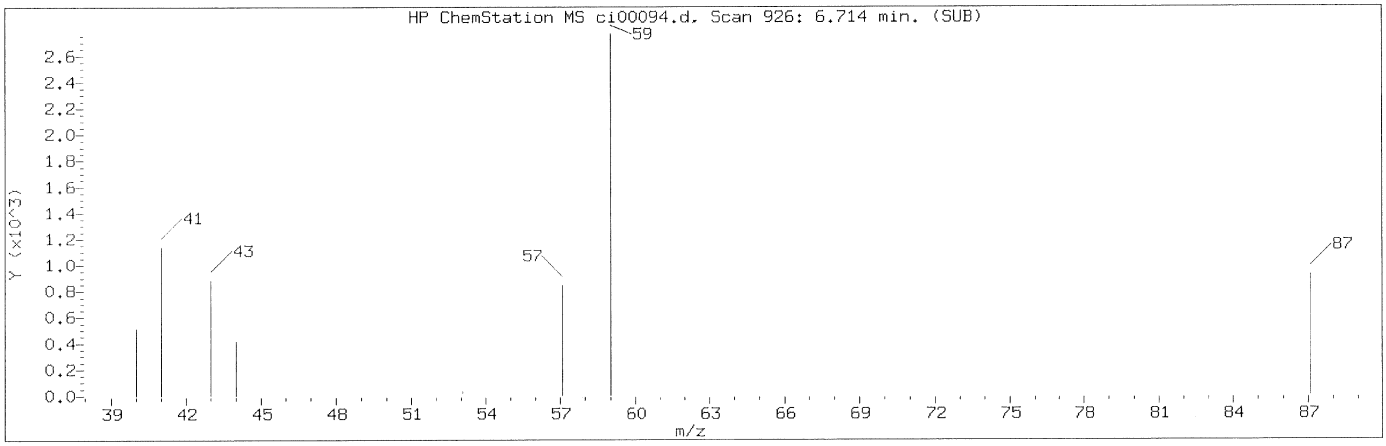
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

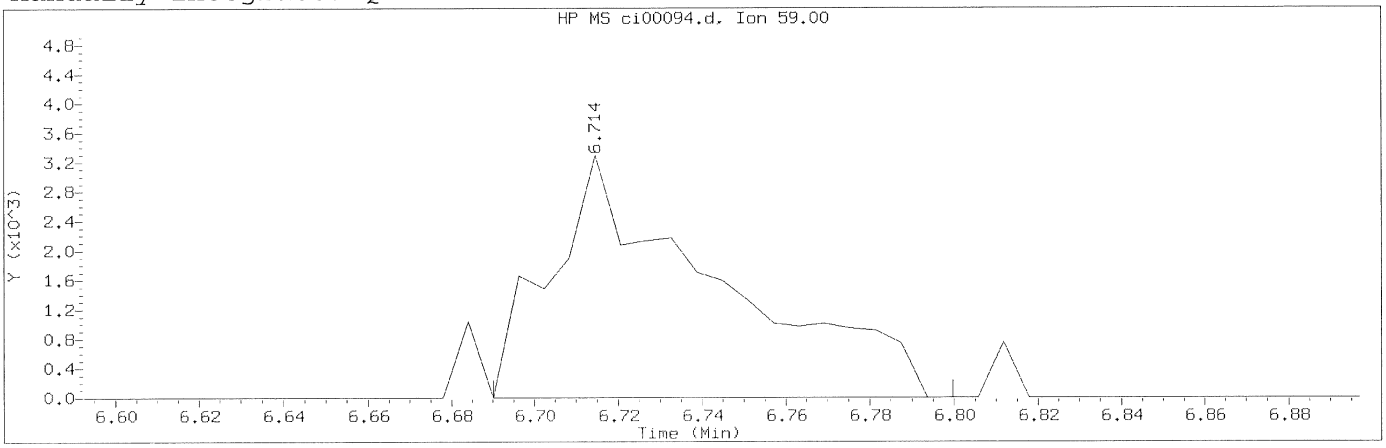
Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 619		
Retention Time (minutes)	: 4.847		
Quant Ion	: 59.00		
Area	: 24675		
Concentration (ppb(v))	: 0.1704		
Integration start scan	: 608	Integration stop scan:	632
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

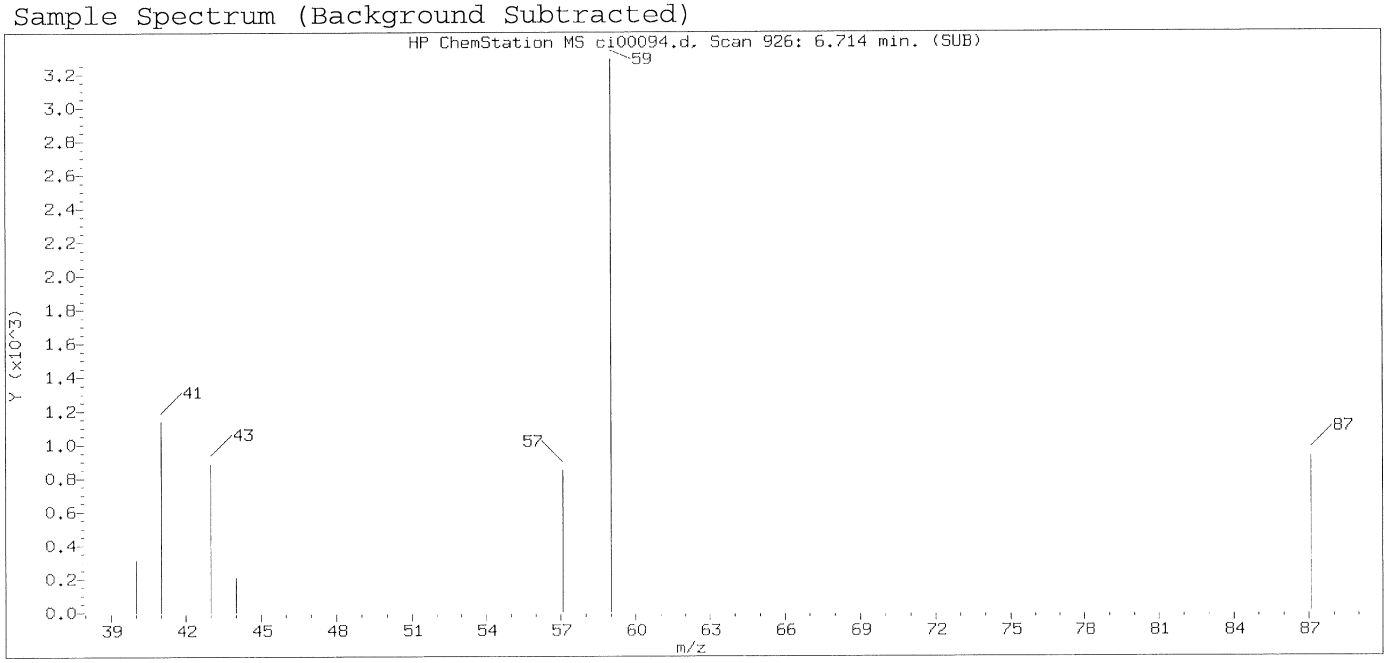
Compound Number : 34
Compound Name : Ethyl Tert-Butyl Ether
Scan Number : 926
Retention Time (minutes): 6.714
Quant Ion : 59.00
Area (flag) : 9099M
Concentration (ppb(v)) : 0.0793
Integration start scan : 921 Integration stop scan: 939
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

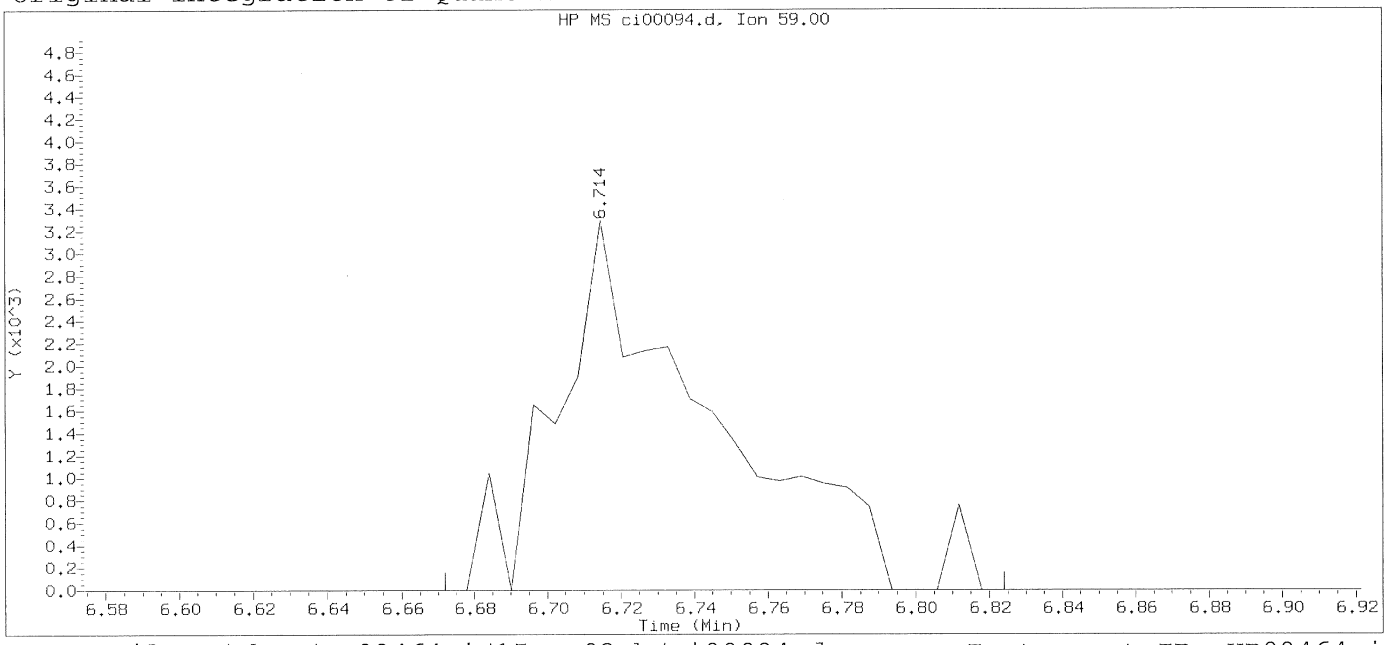
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

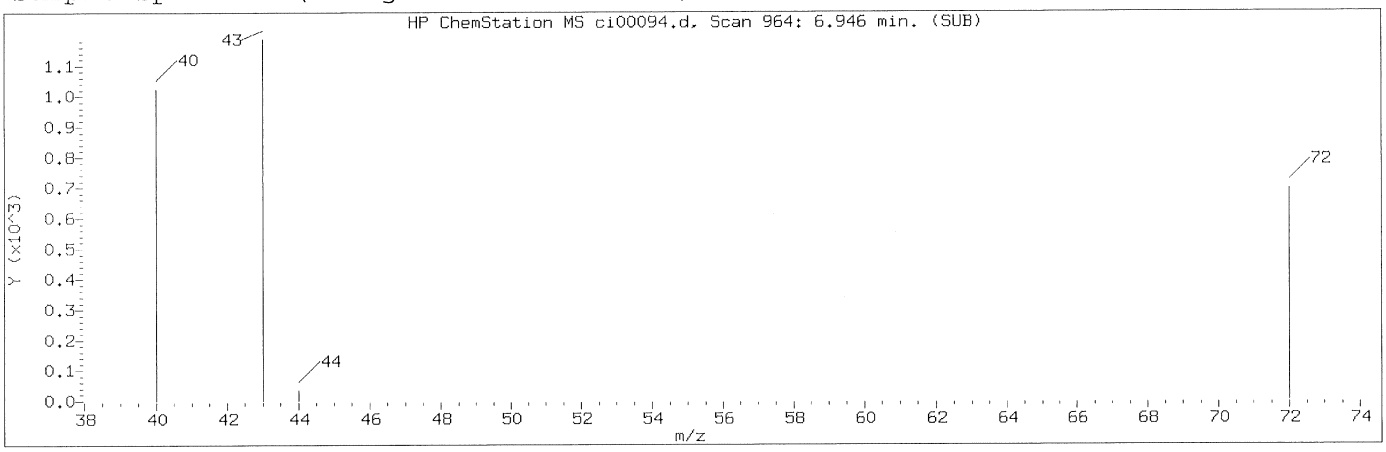
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

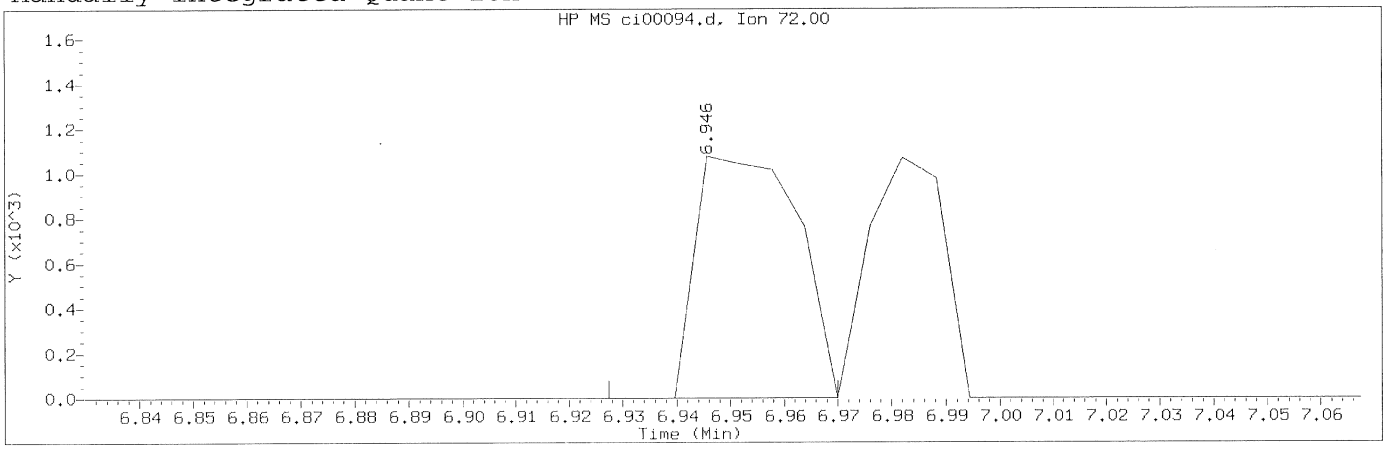
Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 926		
Retention Time (minutes)	: 6.714		
Quant Ion	: 59.00		
Area	: 9756		
Concentration (ppb(v))	: 0.0651		
Integration start scan	: 918	Integration stop scan:	943
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

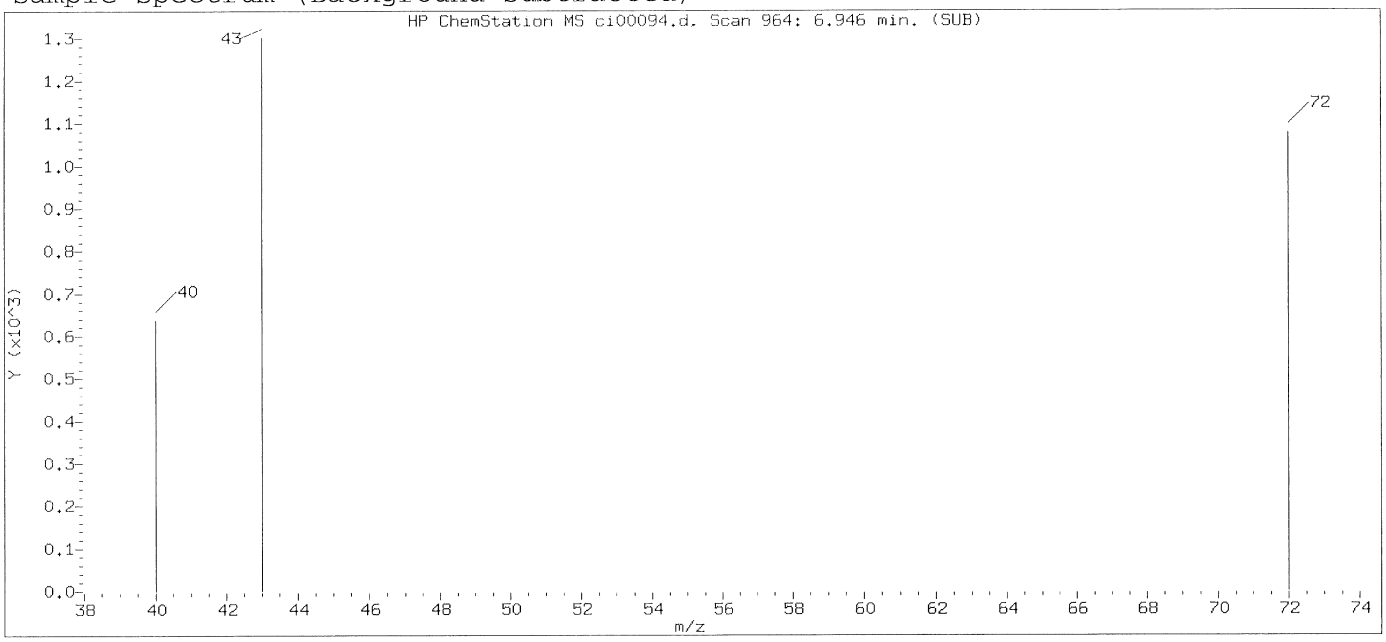
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 964
Retention Time (minutes): 6.946
Quant Ion : 72.00
Area (flag) : 1422M
Concentration (ppb(v)) : 0.0669
Integration start scan : 960 Integration stop scan: 967
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

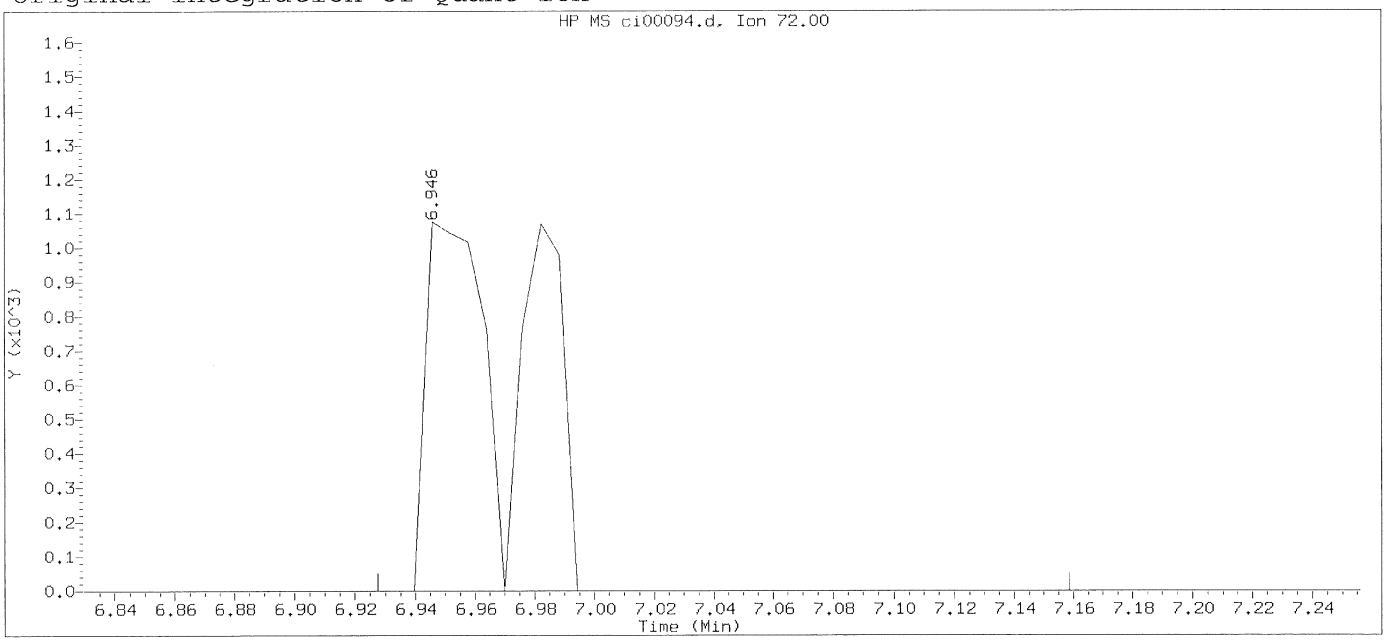
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

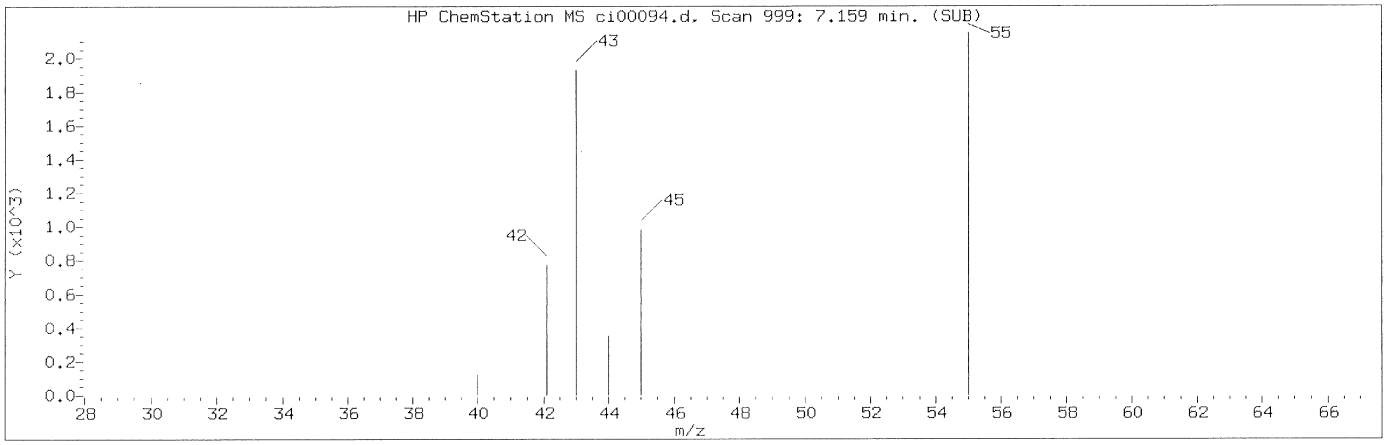
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

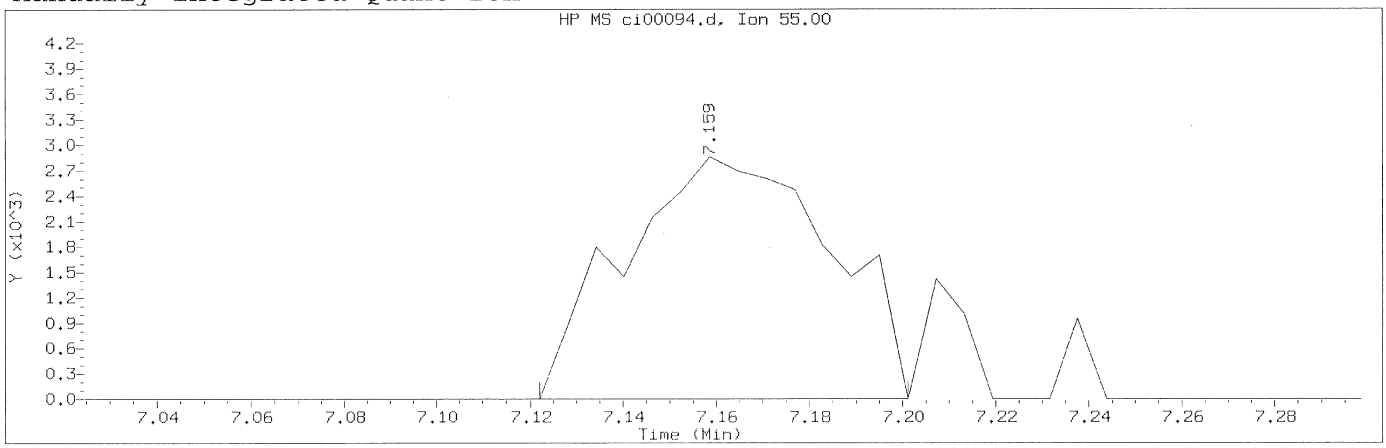
Compound Number	: 37		
Compound Name	: 2-Butanone		
Scan Number	: 964		
Retention Time (minutes)	: 6.946		
Quant Ion	: 72.00		
Area	: 2449		
Concentration (ppb(v))	: 0.1084		
Integration start scan	: 960	Integration stop scan:	998
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

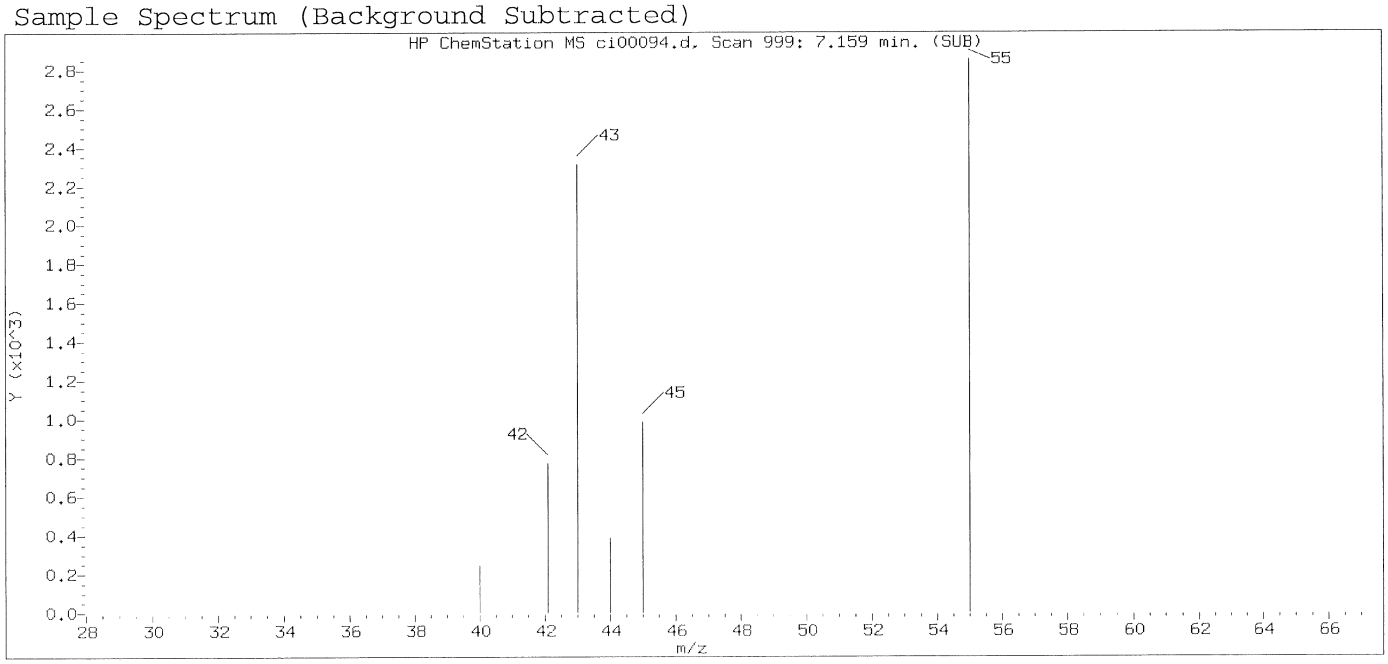
Compound Number : 39
Compound Name : Methyl Acrylate
Scan Number : 999
Retention Time (minutes): 7.159
Quant Ion : 55.00
Area (flag) : 8870M
Concentration (ppb(v)) : 0.1061
Integration start scan : 992 Integration stop scan: 1005
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

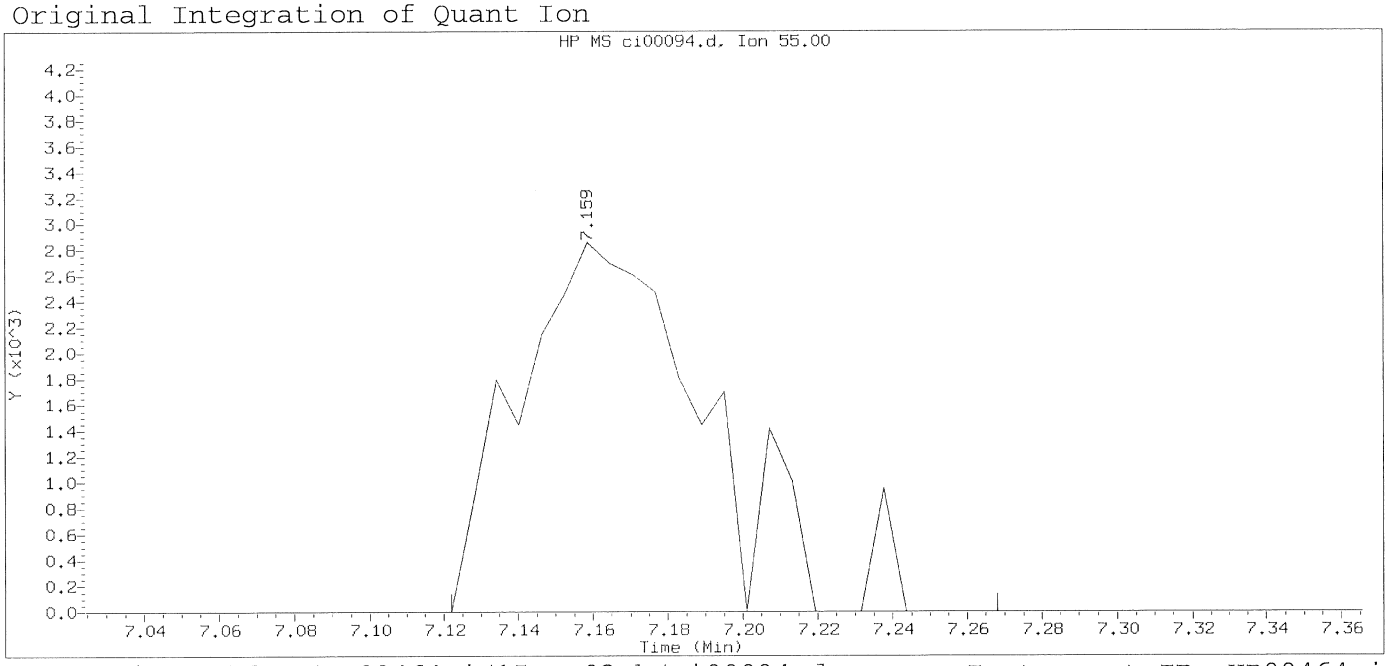
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

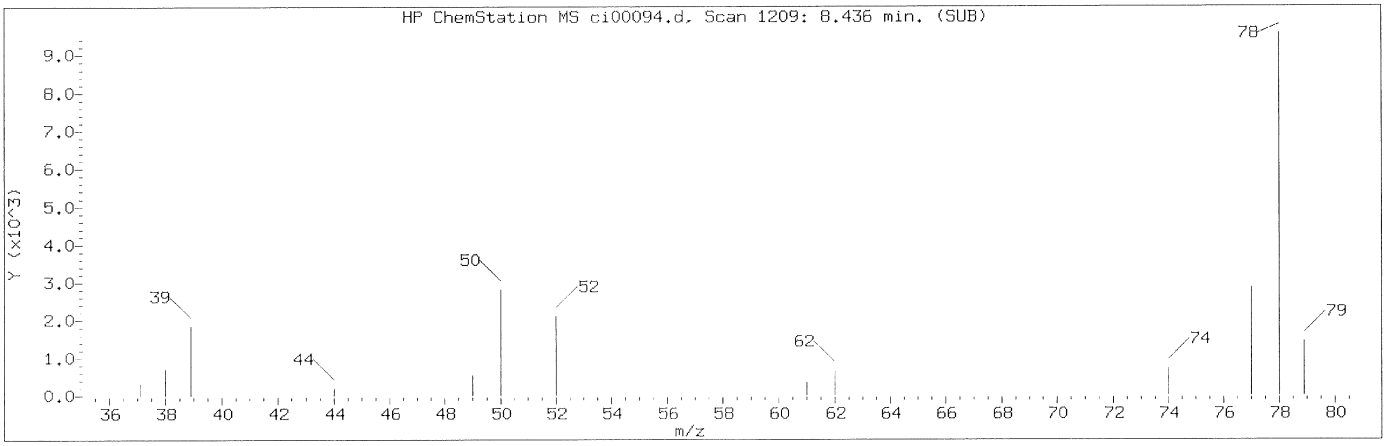
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

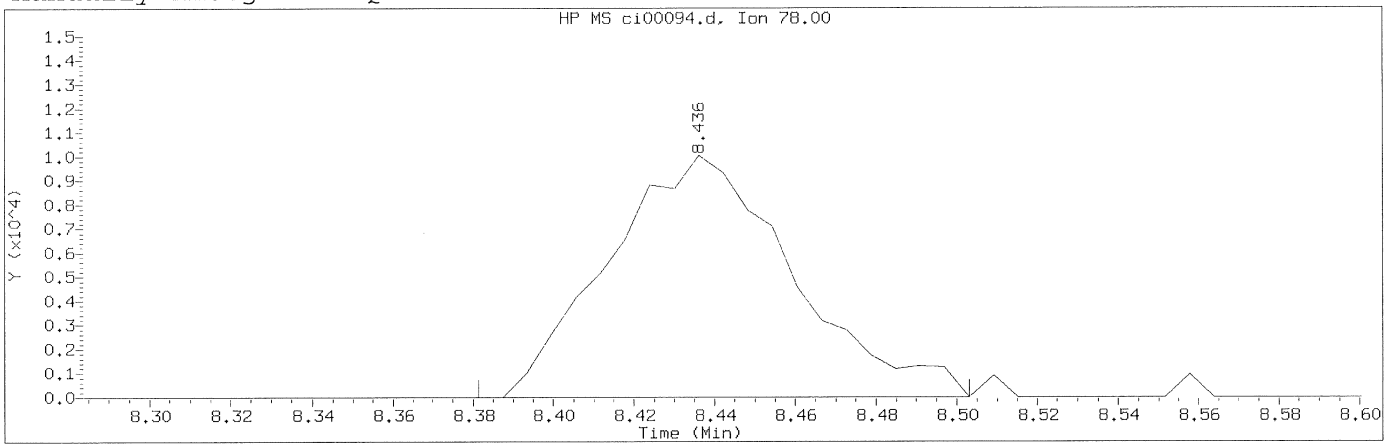
Compound Number	: 39		
Compound Name	: Methyl Acrylate		
Scan Number	: 999		
Retention Time (minutes)	: 7.159		
Quant Ion	: 55.00		
Area	: 10104		
Concentration (ppb(v))	: 0.1113		
Integration start scan	: 992	Integration stop scan:	1016
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

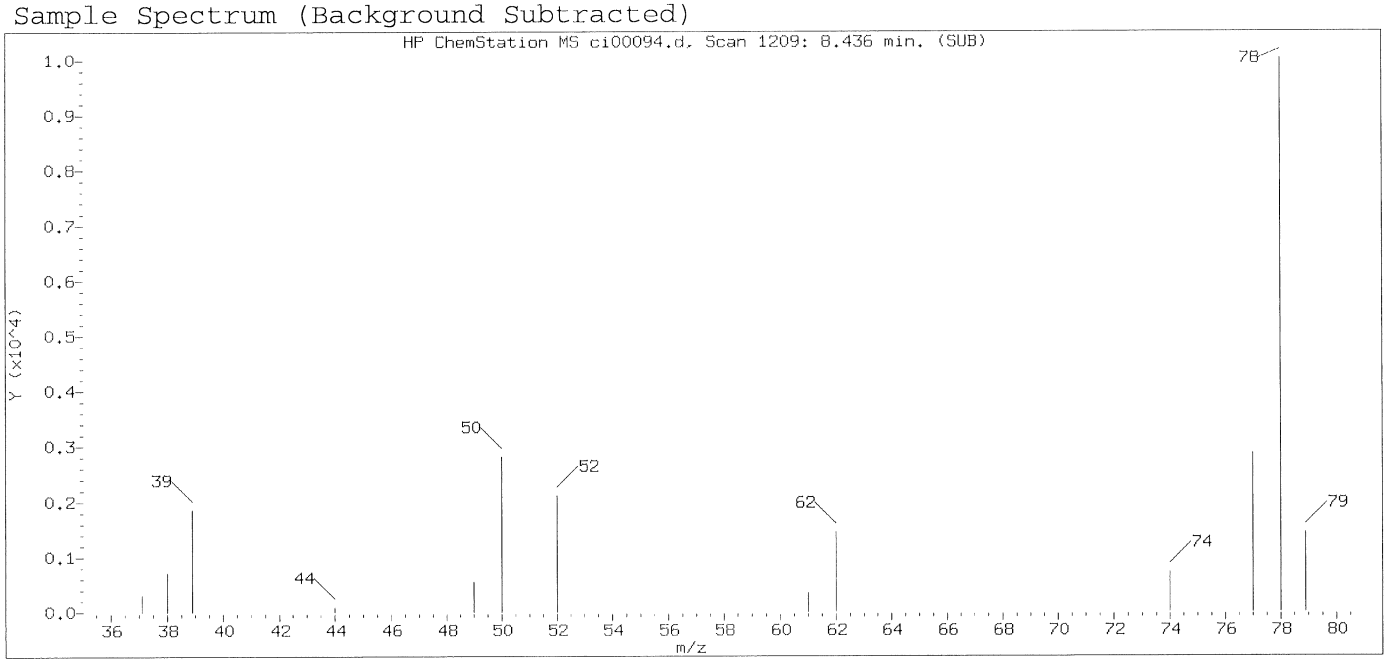
Compound Number : 46
Compound Name : Benzene
Scan Number : 1209
Retention Time (minutes): 8.436
Quant Ion : 78.00
Area (flag) : 31846M
Concentration (ppb(v)) : 0.1826
Integration start scan : 1199 Integration stop scan: 1219
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

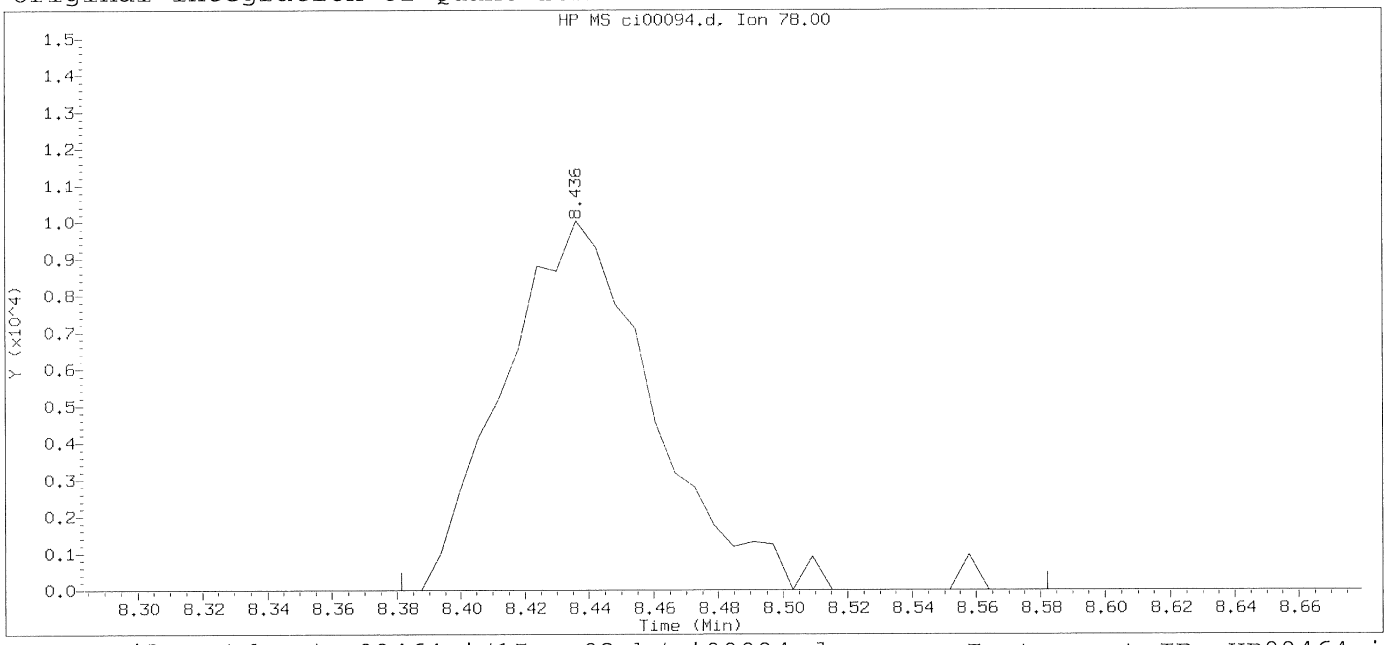
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpl758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

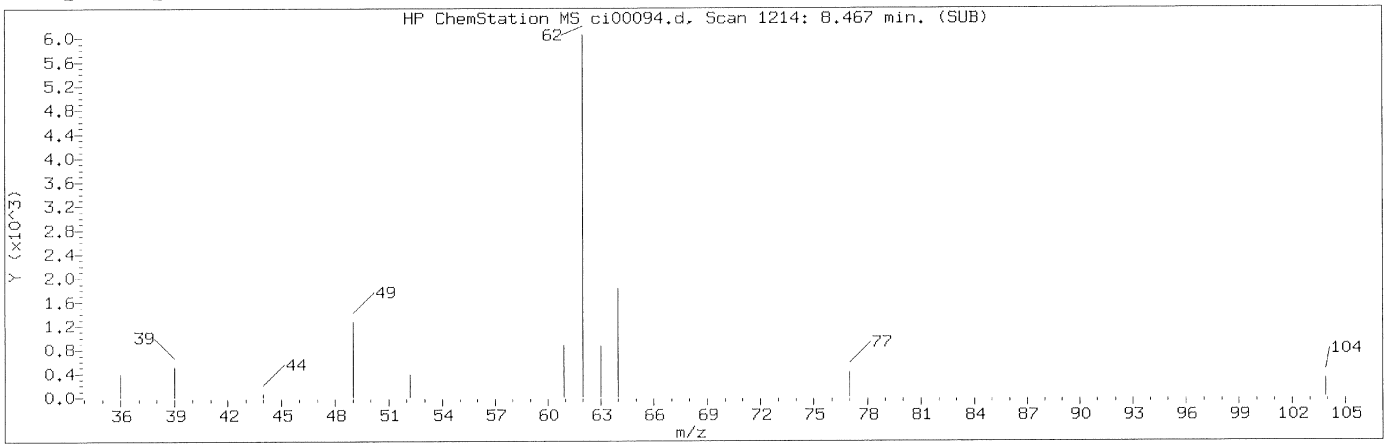
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

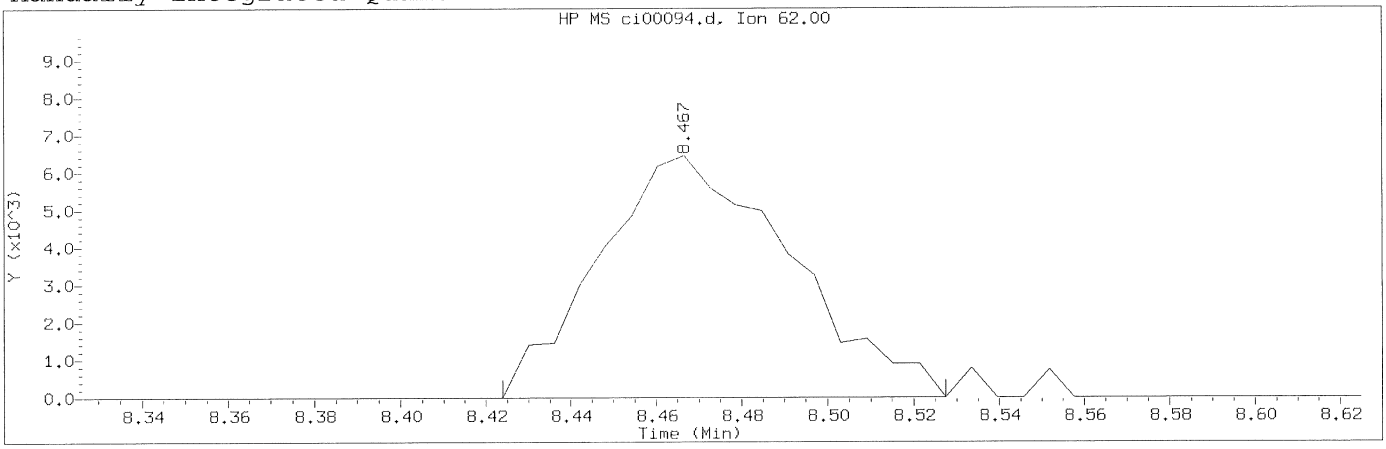
Compound Number	: 46		
Compound Name	: Benzene		
Scan Number	: 1209		
Retention Time (minutes)	: 8.436		
Quant Ion	: 78.00		
Area	: 32533		
Concentration (ppb(v))	: 0.2537		
Integration start scan	: 1199	Integration stop scan:	1232
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

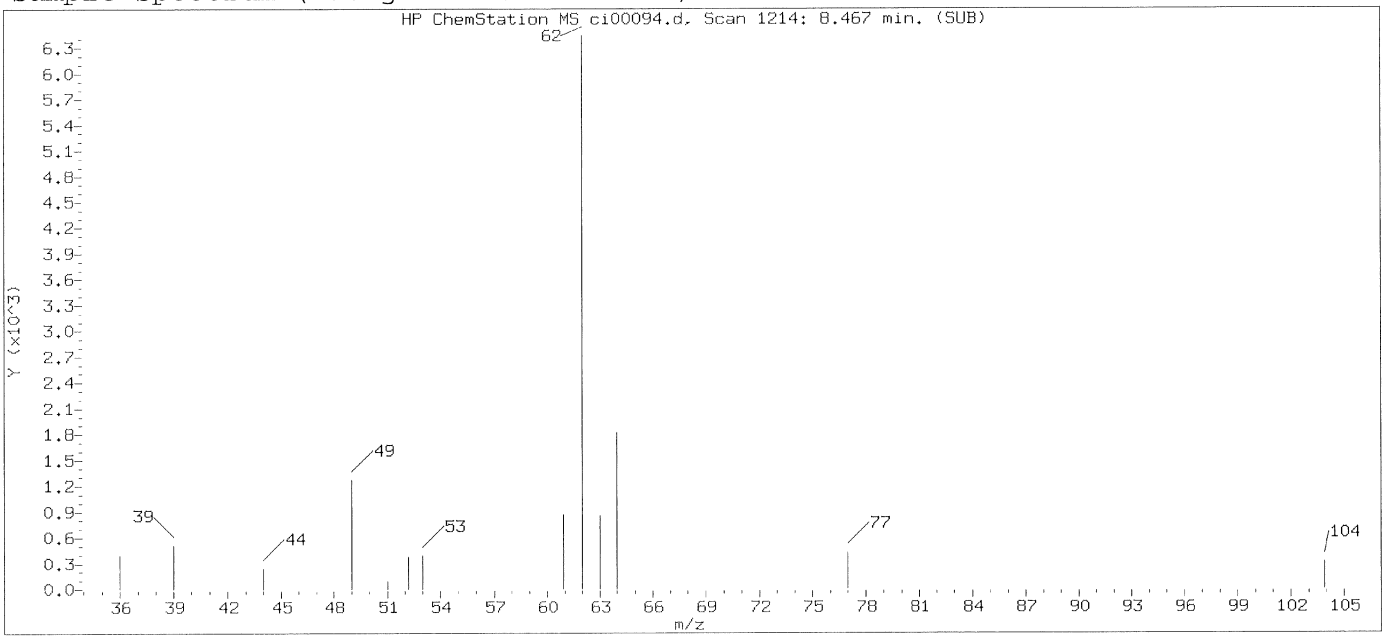
Compound Number : 47
Compound Name : 1,2-Dichloroethane
Scan Number : 1214
Retention Time (minutes): 8.467
Quant Ion : 62.00
Area (flag) : 20065M
Concentration (ppb(v)) : 0.2076
Integration start scan : 1206 Integration stop scan: 1223
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

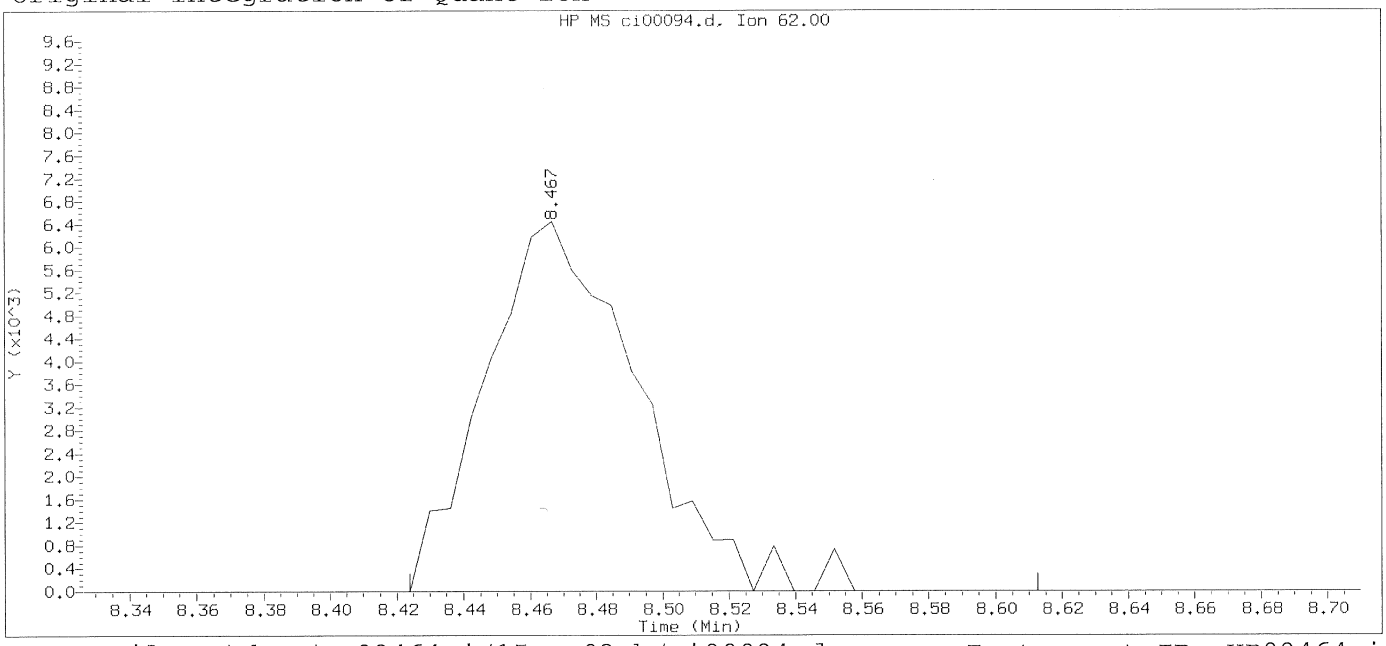
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

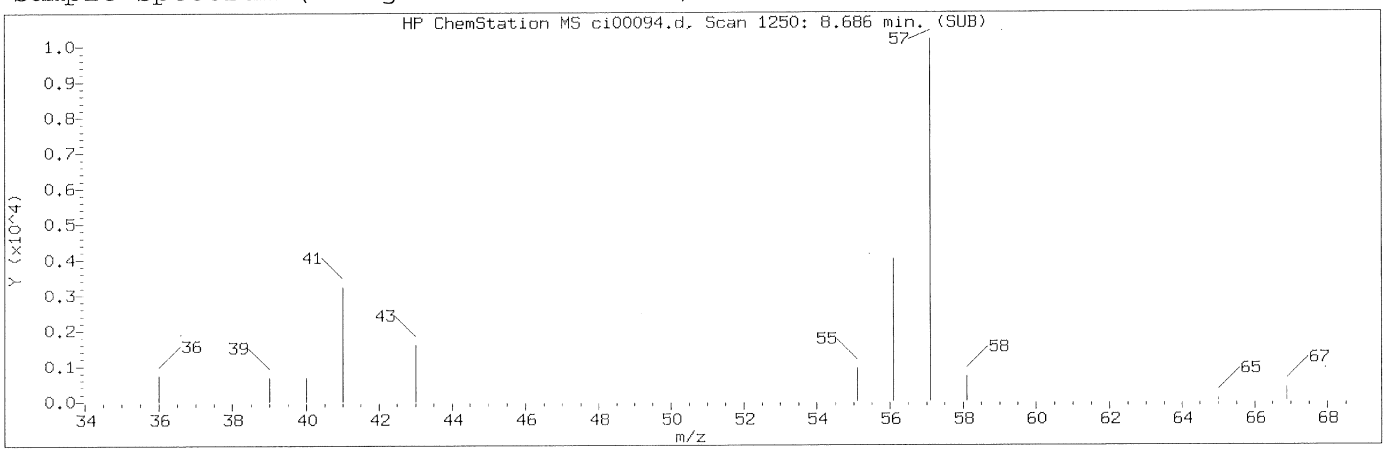
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

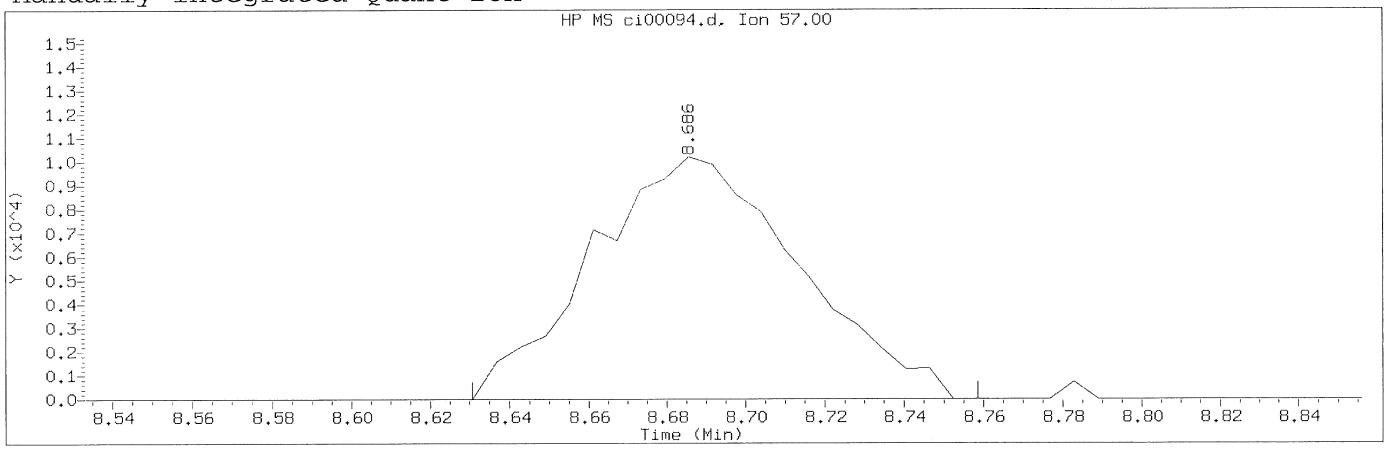
Compound Number	: 47		
Compound Name	: 1,2-Dichloroethane		
Scan Number	: 1214		
Retention Time (minutes)	: 8.467		
Quant Ion	: 62.00		
Area	: 20622		
Concentration (ppb(v))	: 0.2915		
Integration start scan	: 1206	Integration stop scan:	1237
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

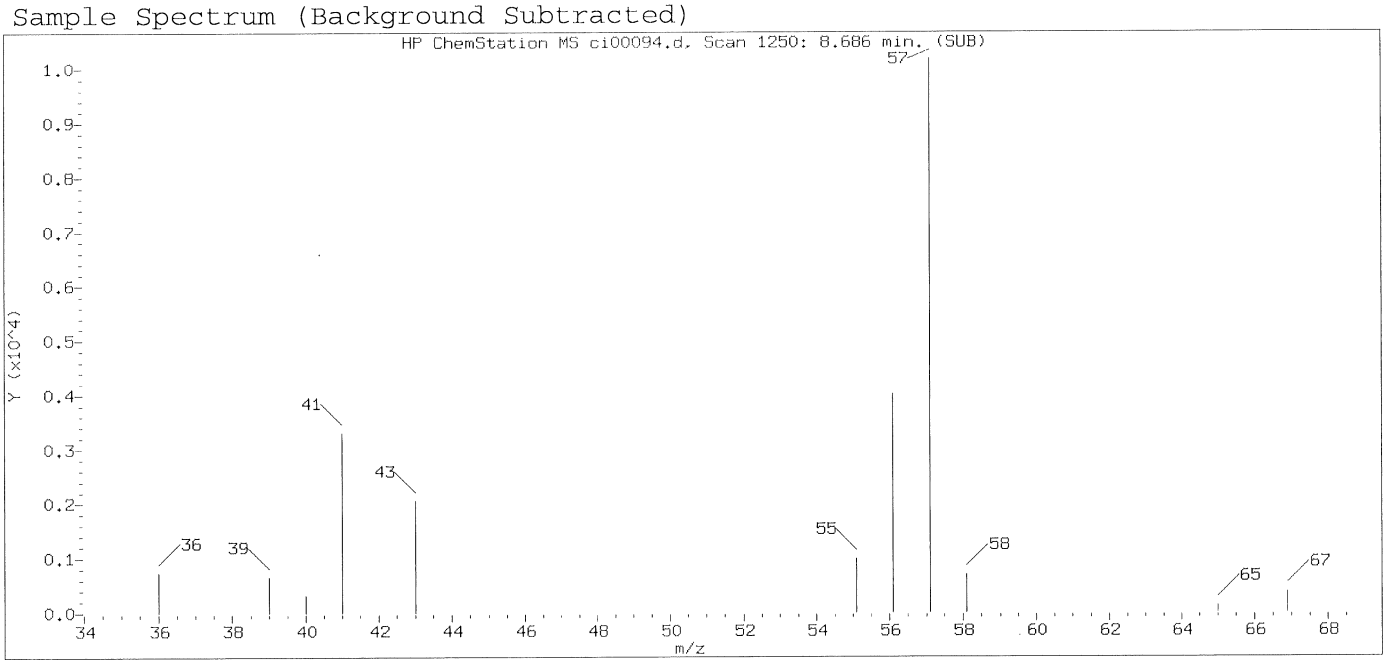
Compound Number	: 48		
Compound Name	: Isooctane		
Scan Number	: 1250		
Retention Time (minutes)	: 8.686		
Quant Ion	: 57.00		
Area (flag)	: 37242M		
Concentration (ppb(v))	: 0.1215		
Integration start scan	: 1240	Integration stop scan:	1261
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

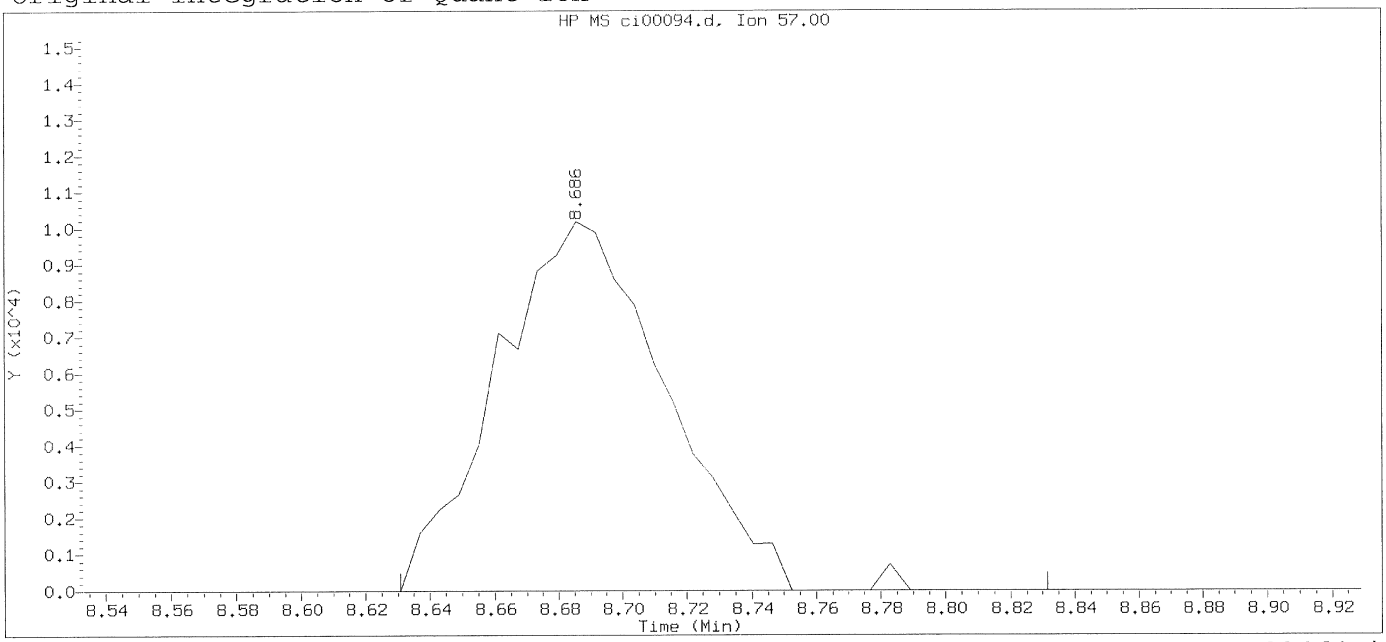
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57. Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpl758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

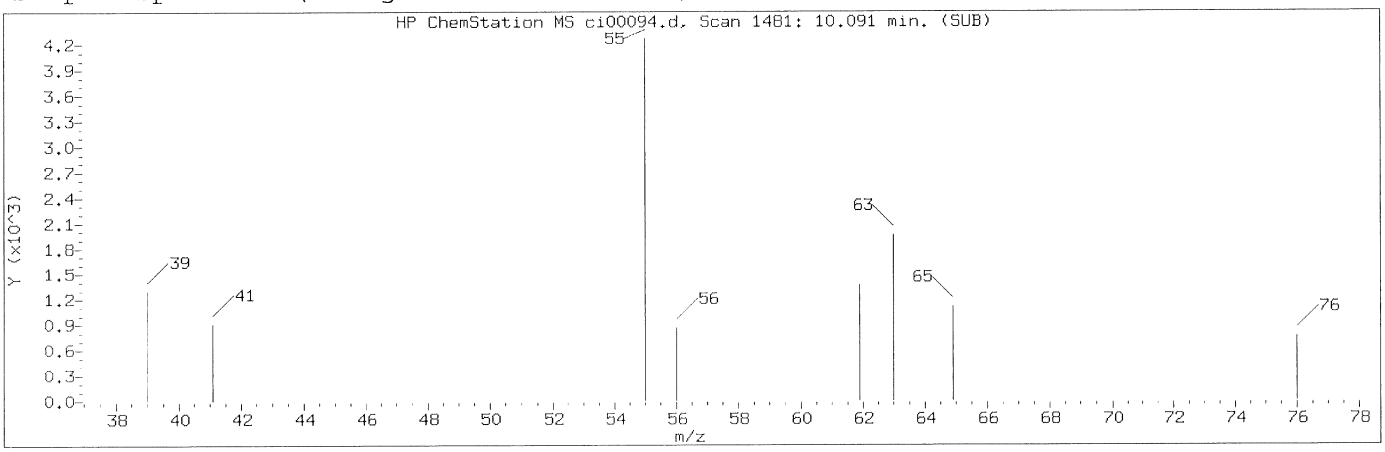
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

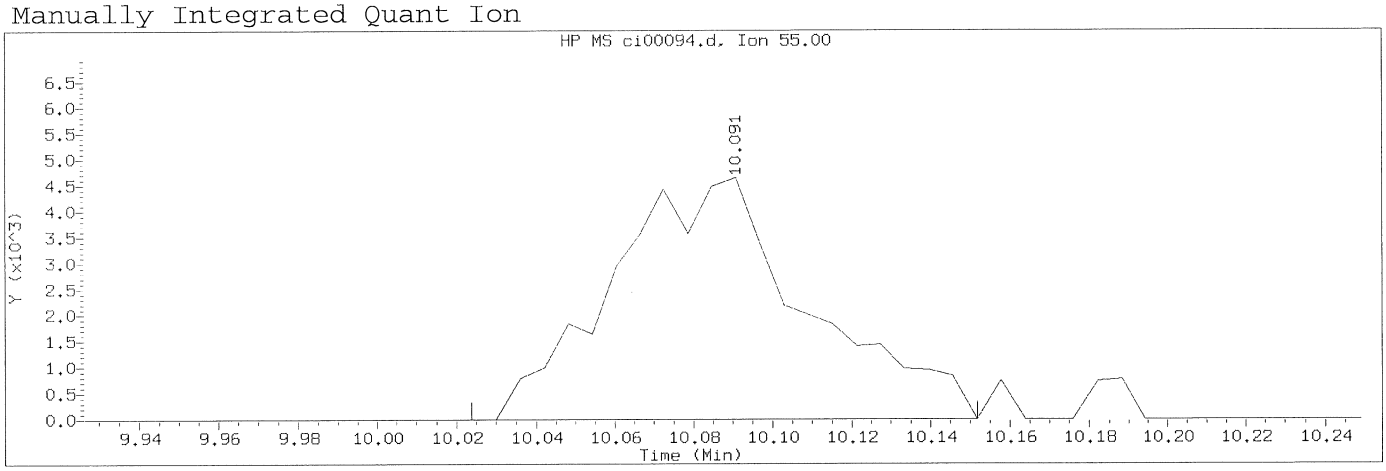
Compound Number	: 48		
Compound Name	: Isooctane		
Scan Number	: 1250		
Retention Time (minutes)	: 8.686		
Quant Ion	: 57.00		
Area	: 37507		
Concentration (ppb(v))	: 0.1550		
Integration start scan	: 1240	Integration stop scan:	1273
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

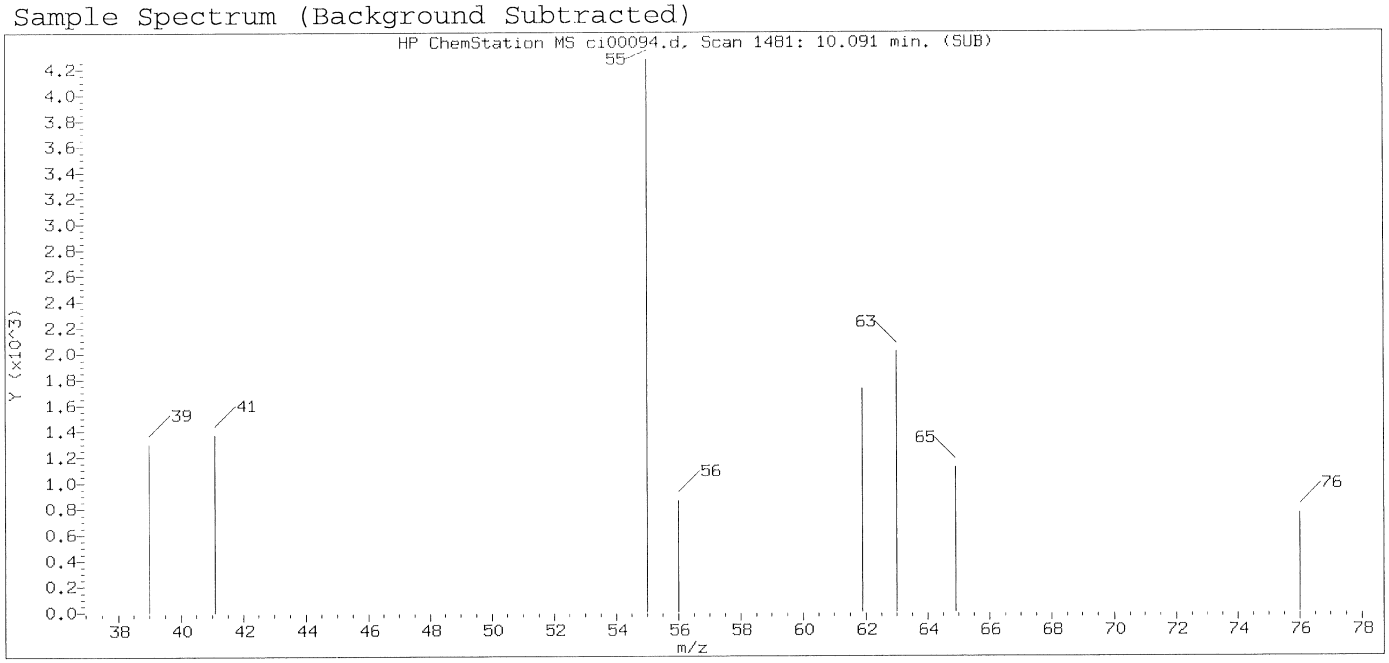
Compound Number : 53
Compound Name : Ethyl Acrylate
Scan Number : 1481
Retention Time (minutes): 10.091
Quant Ion : 55.00
Area (flag) : 16002M
Concentration (ppb(v)) : 0.1930
Integration start scan : 1469 Integration stop scan: 1490
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

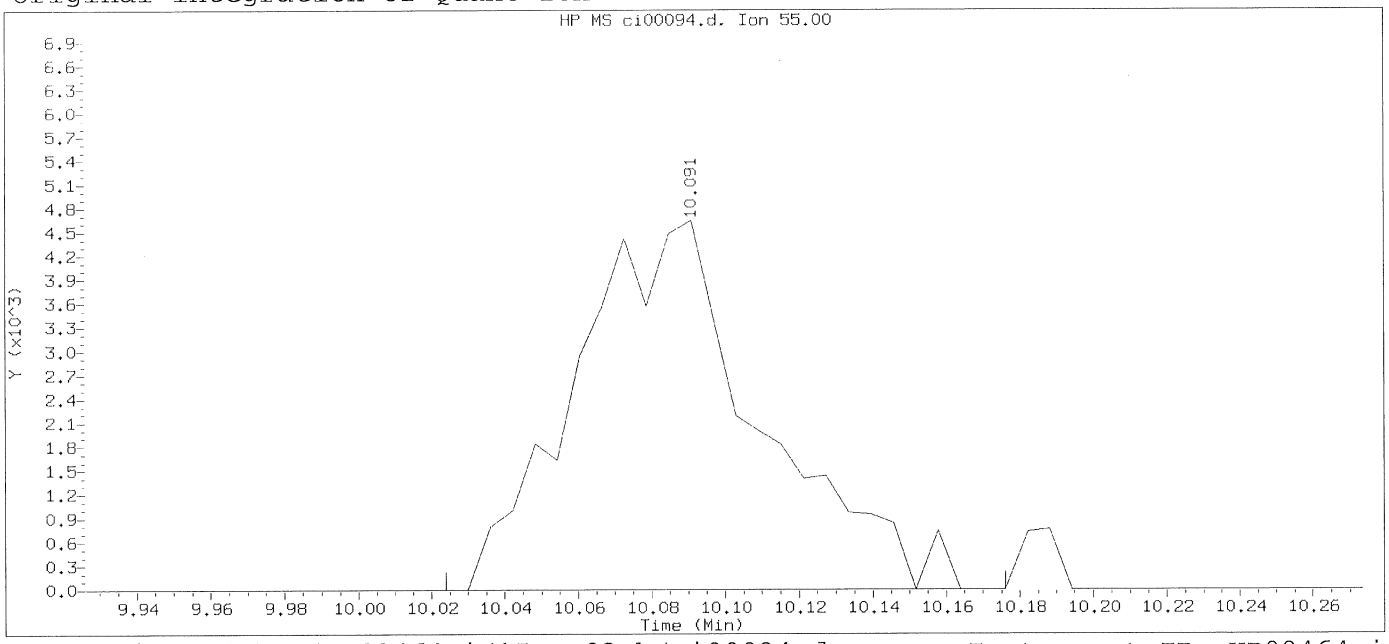
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: MPO1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

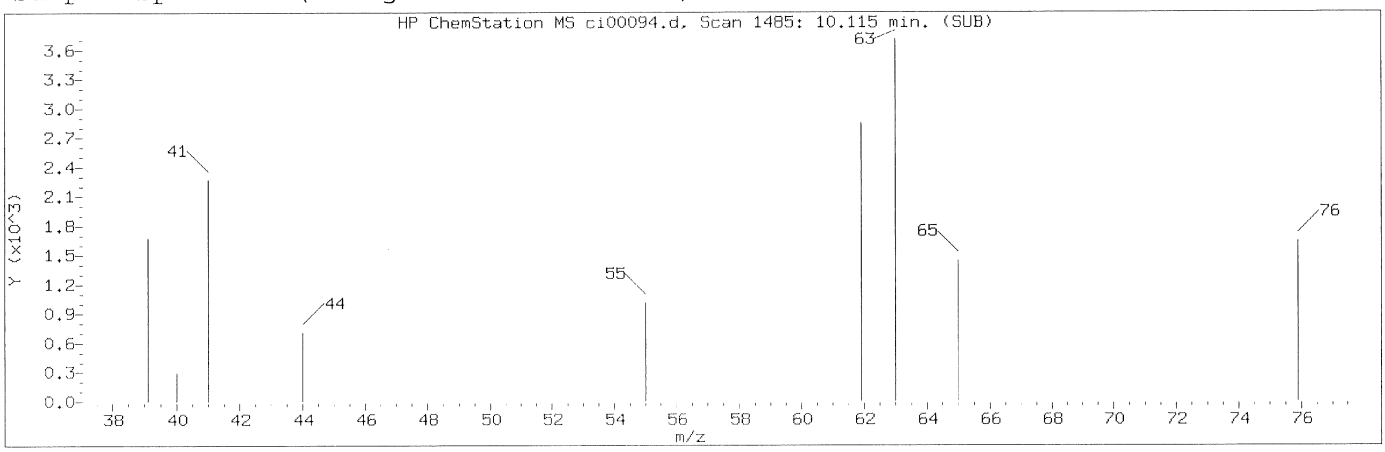
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

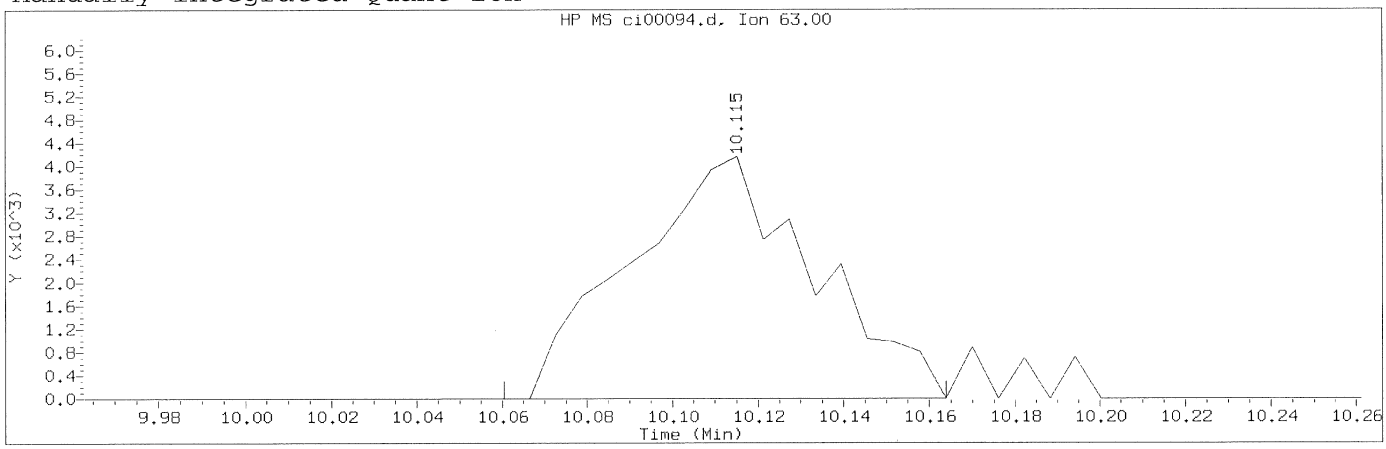
Compound Number	: 53		
Compound Name	: Ethyl Acrylate		
Scan Number	: 1481		
Retention Time (minutes)	: 10.091		
Quant Ion	: 55.00		
Area	: 16275		
Concentration (ppb(v))	: 0.2247		
Integration start scan	: 1469	Integration stop scan:	1494
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

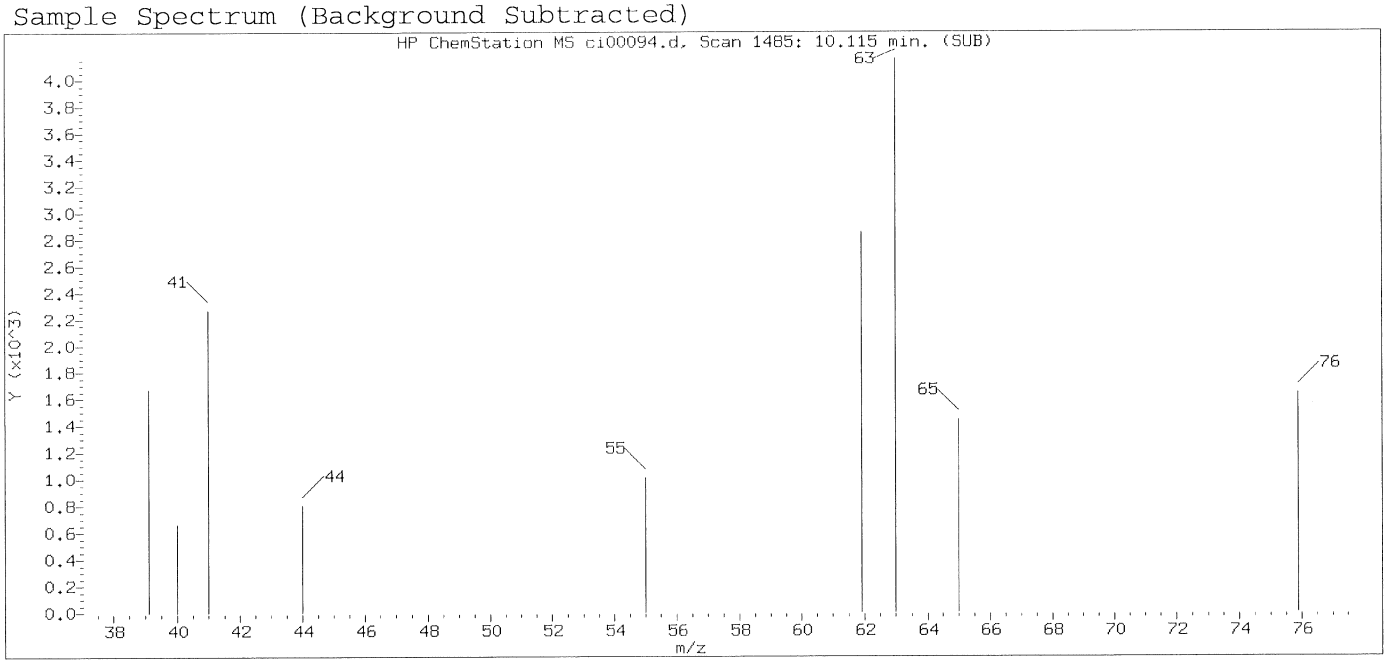
Compound Number : 54
Compound Name : 1,2-Dichloropropane
Scan Number : 1485
Retention Time (minutes): 10.115
Quant Ion : 63.00
Area (flag) : 12414M
Concentration (ppb(v)) : 0.1745
Integration start scan : 1475 Integration stop scan: 1492
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

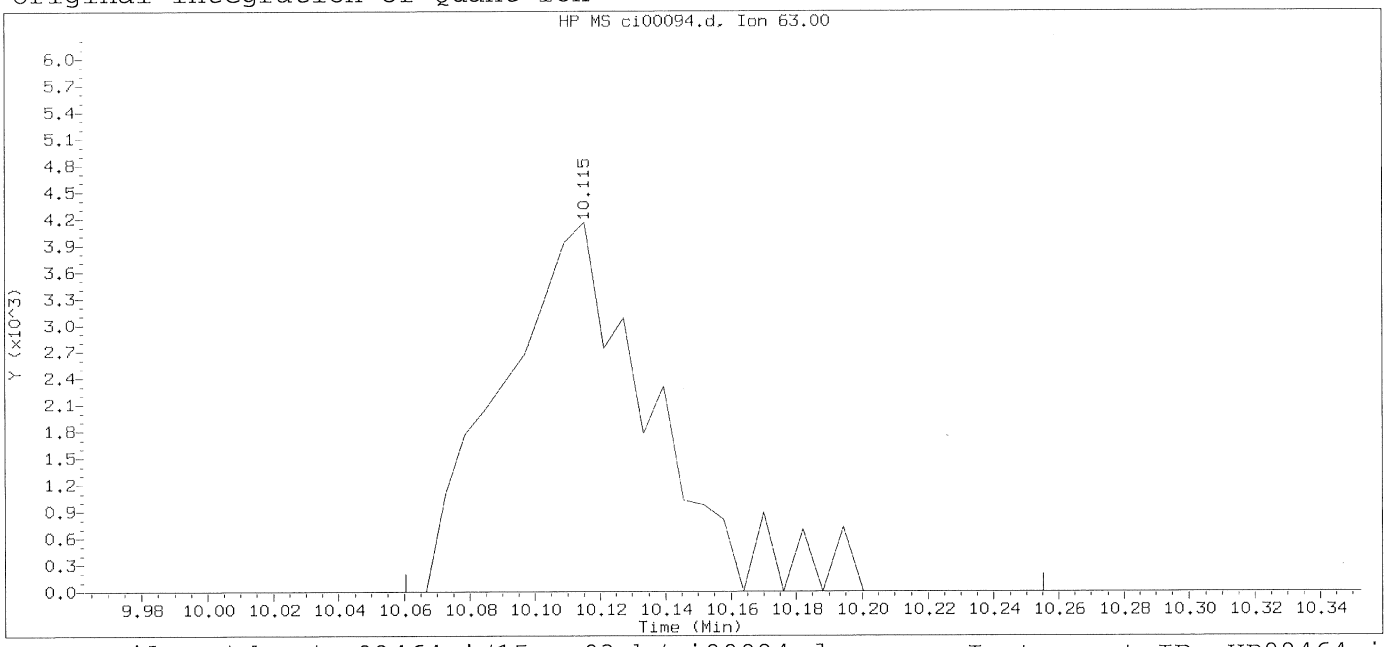
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

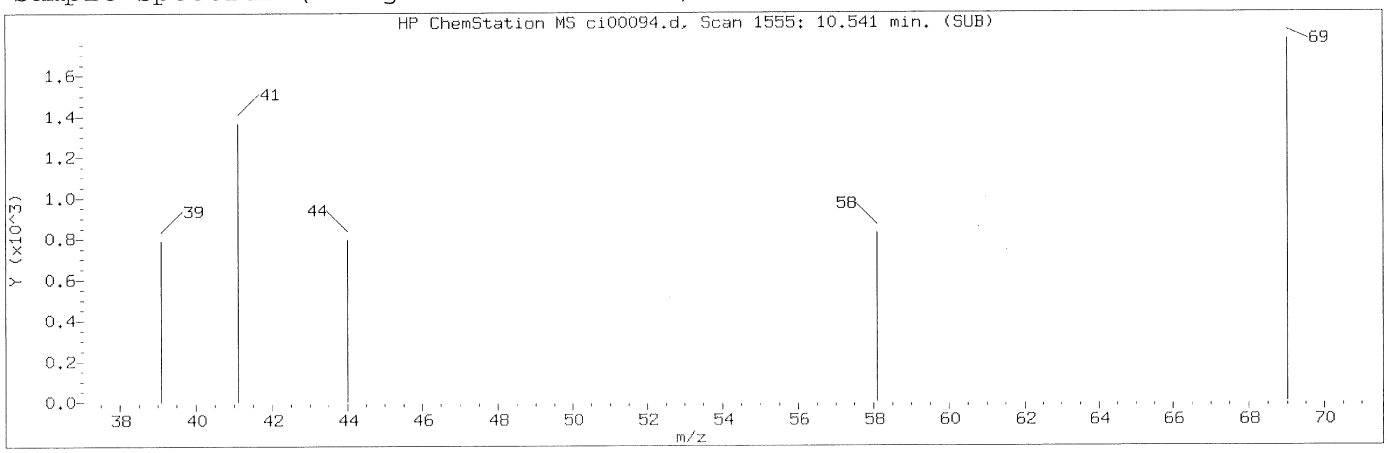
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

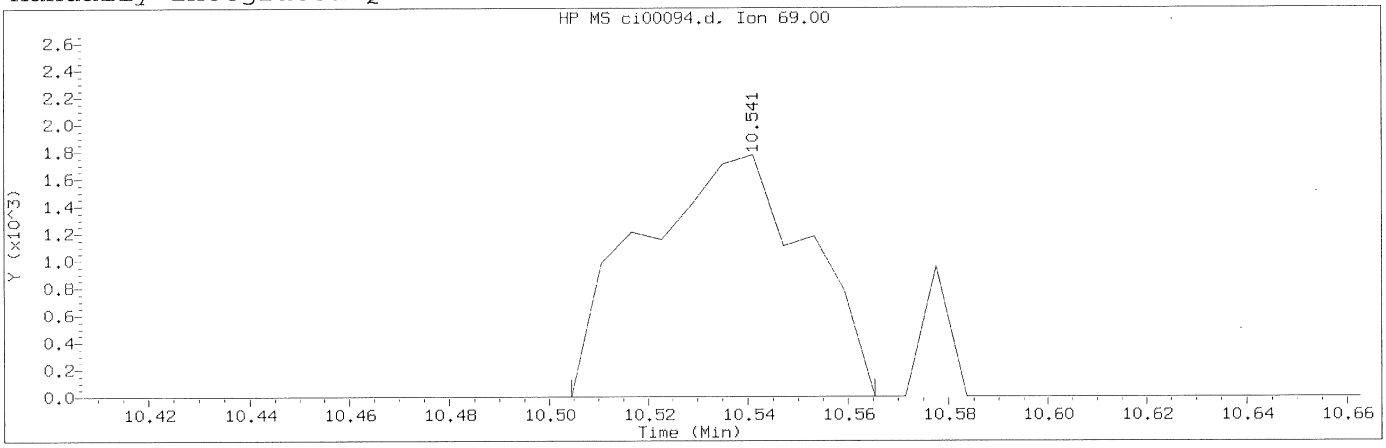
Compound Number	: 54		
Compound Name	: 1,2-Dichloropropane		
Scan Number	: 1485		
Retention Time (minutes)	: 10.115		
Quant Ion	: 63.00		
Area	: 13258		
Concentration (ppb(v))	: 0.2366		
Integration start scan	: 1475	Integration stop scan:	1507
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

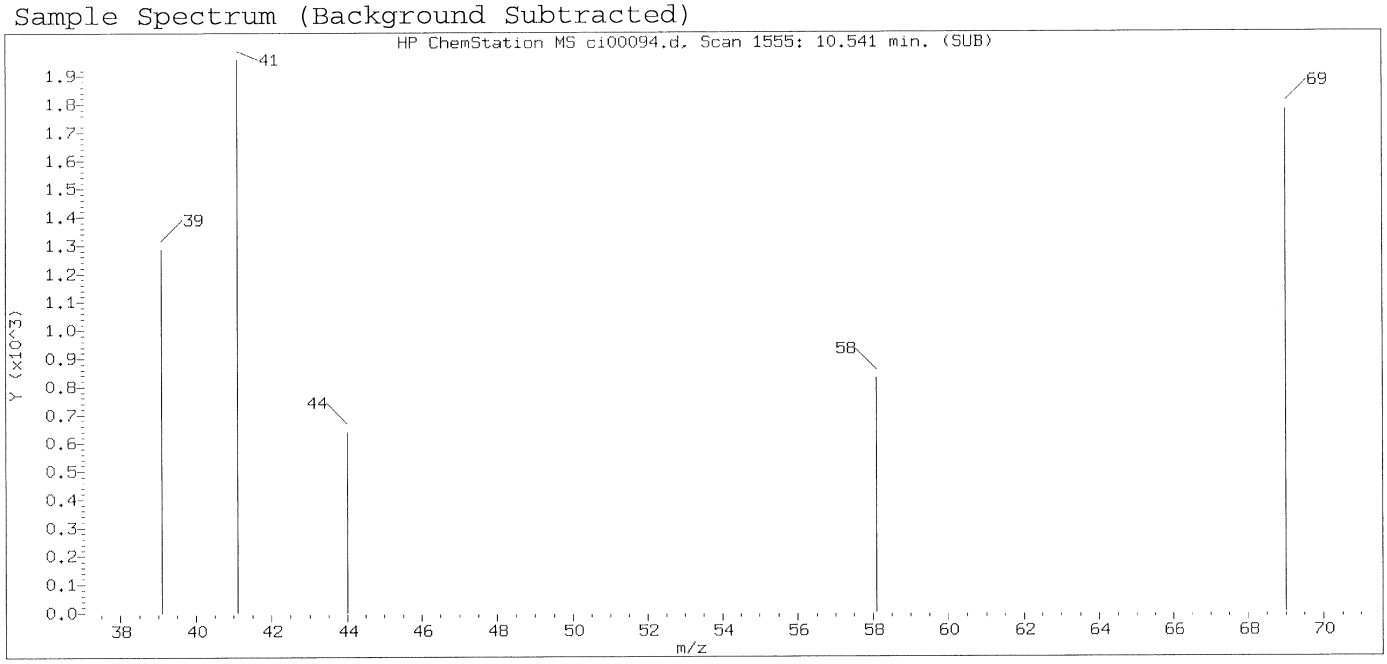
Compound Number : 57
Compound Name : Methyl Methacrylate
Scan Number : 1555
Retention Time (minutes): 10.541
Quant Ion : 69.00
Area (flag) : 4127M
Concentration (ppb(v)) : 0.1033
Integration start scan : 1548 Integration stop scan: 1558
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

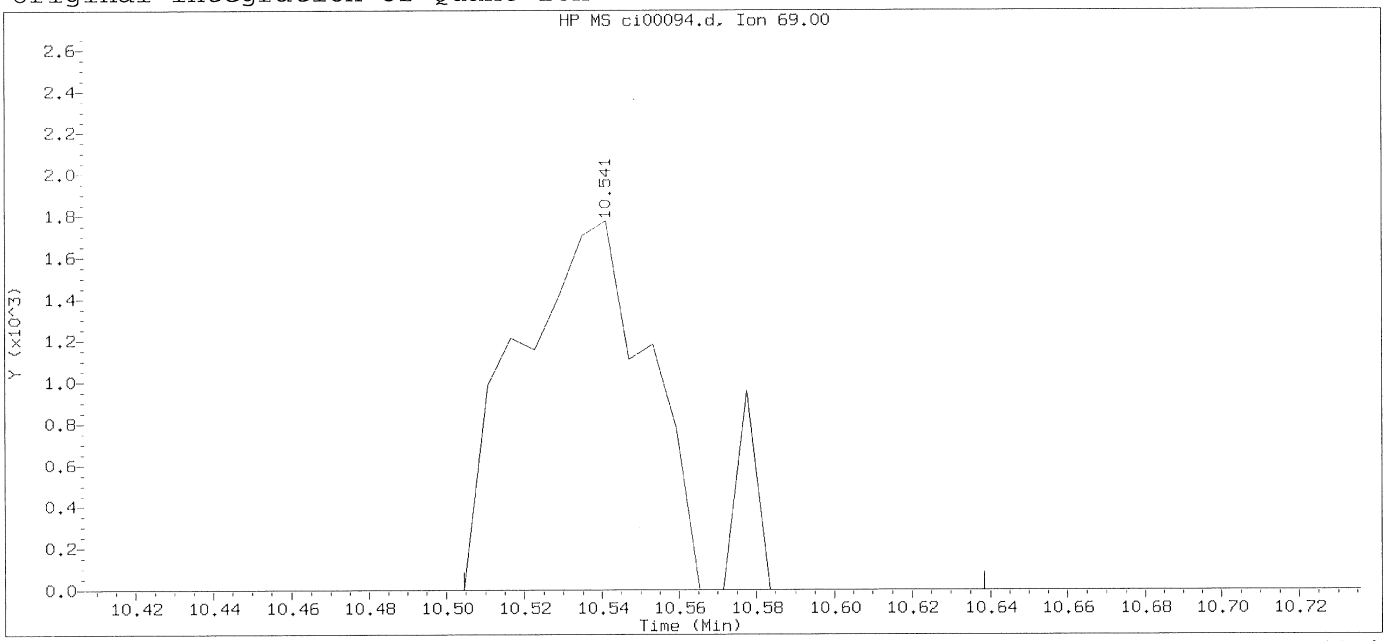
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

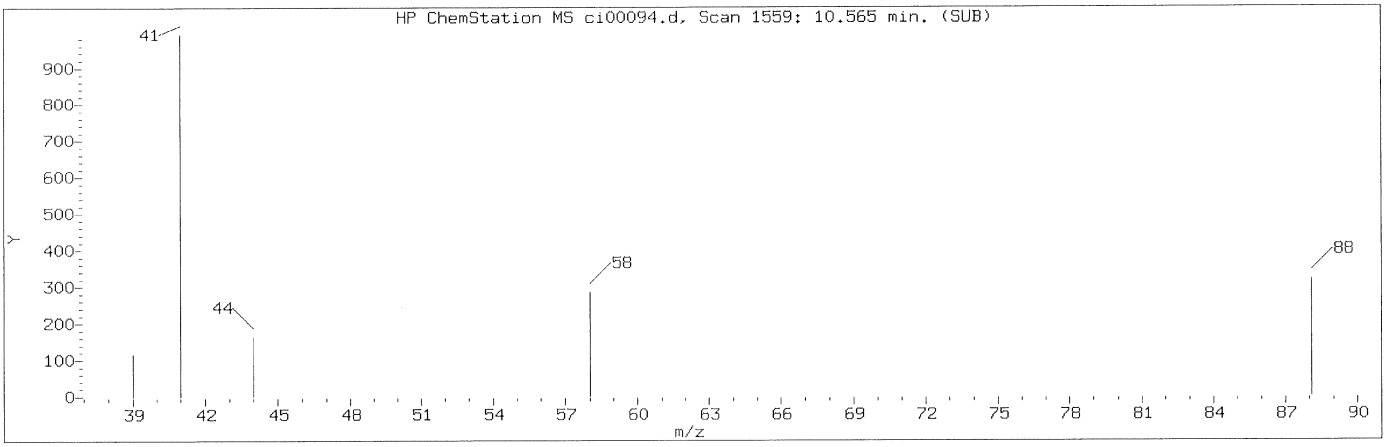
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

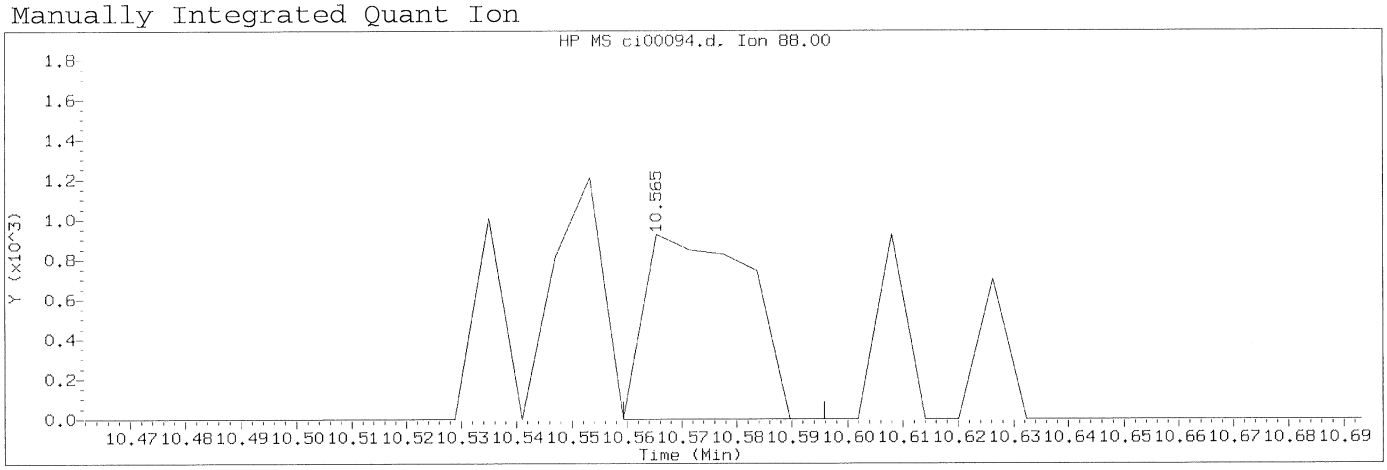
Compound Number	: 57		
Compound Name	: Methyl Methacrylate		
Scan Number	: 1555		
Retention Time (minutes)	: 10.541		
Quant Ion	: 69.00		
Area	: 4478		
Concentration (ppb(v))	: 0.1301		
Integration start scan	: 1548	Integration stop scan:	1570
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

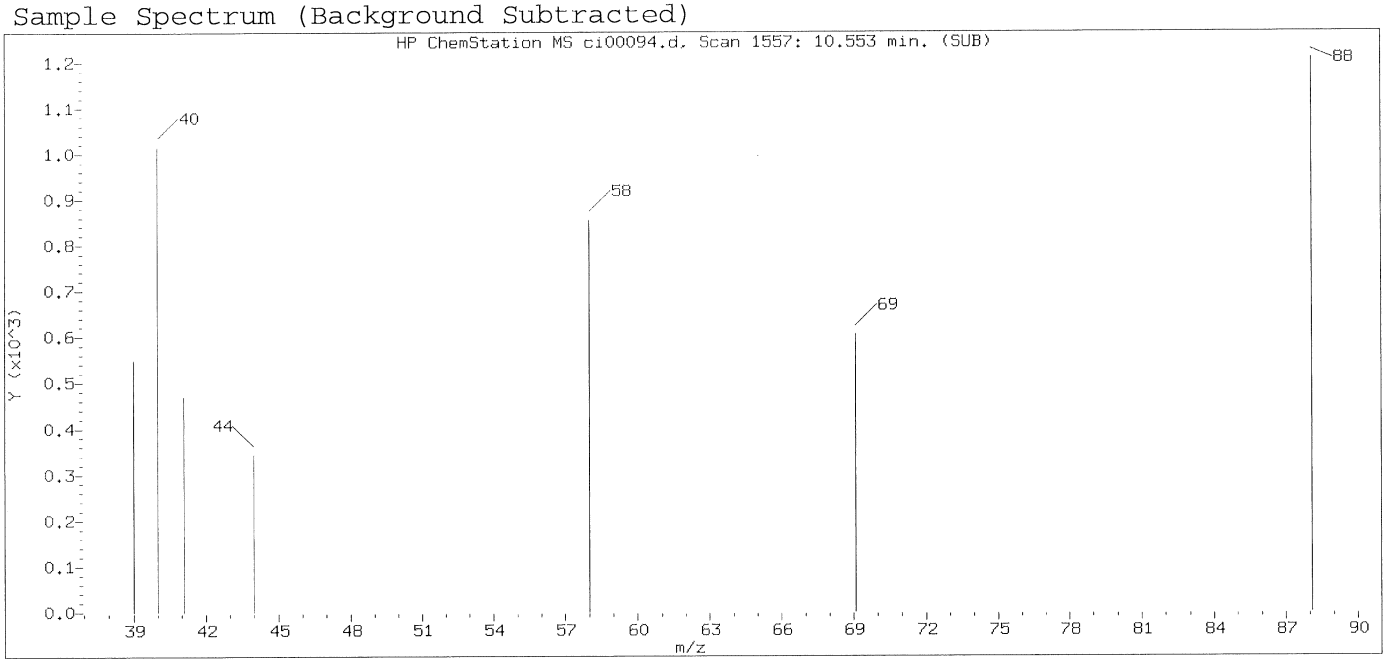
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 1559
Retention Time (minutes): 10.565
Quant Ion : 88.00
Area (flag) : 1217M
Concentration (ppb(v)) : 0.0507
Integration start scan : 1557 Integration stop scan: 1563
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

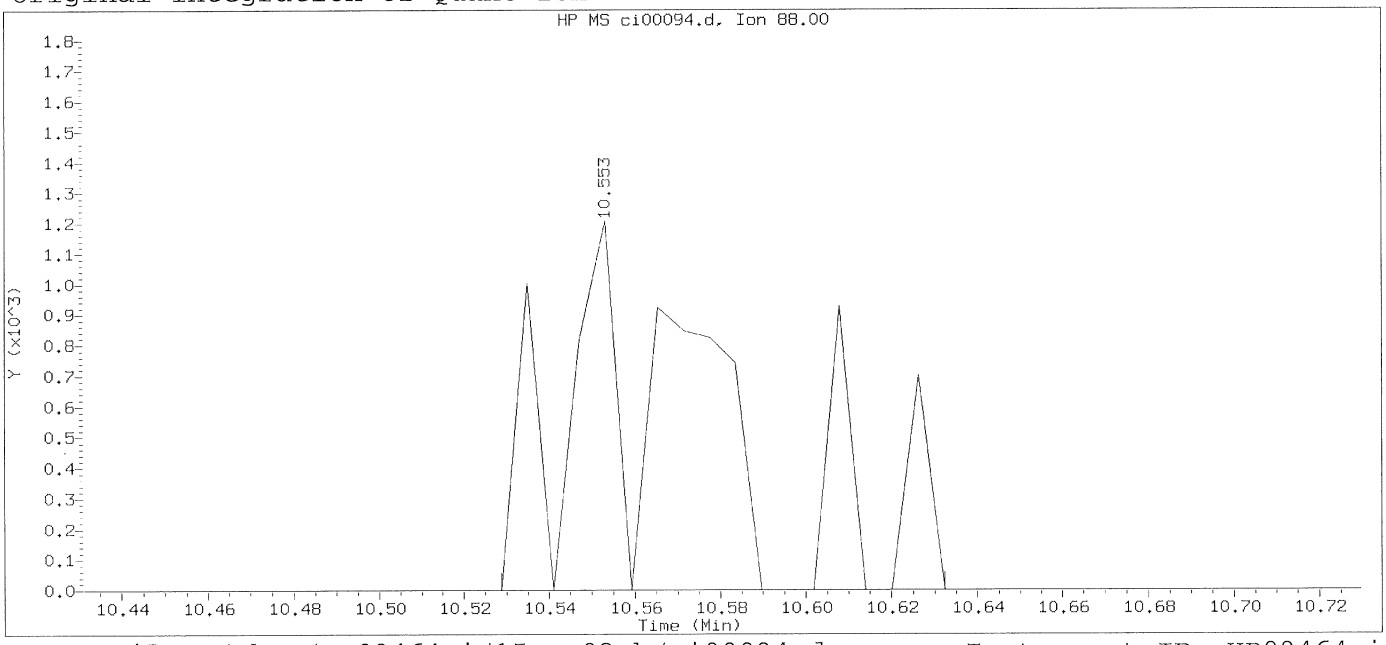
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: MDP 1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

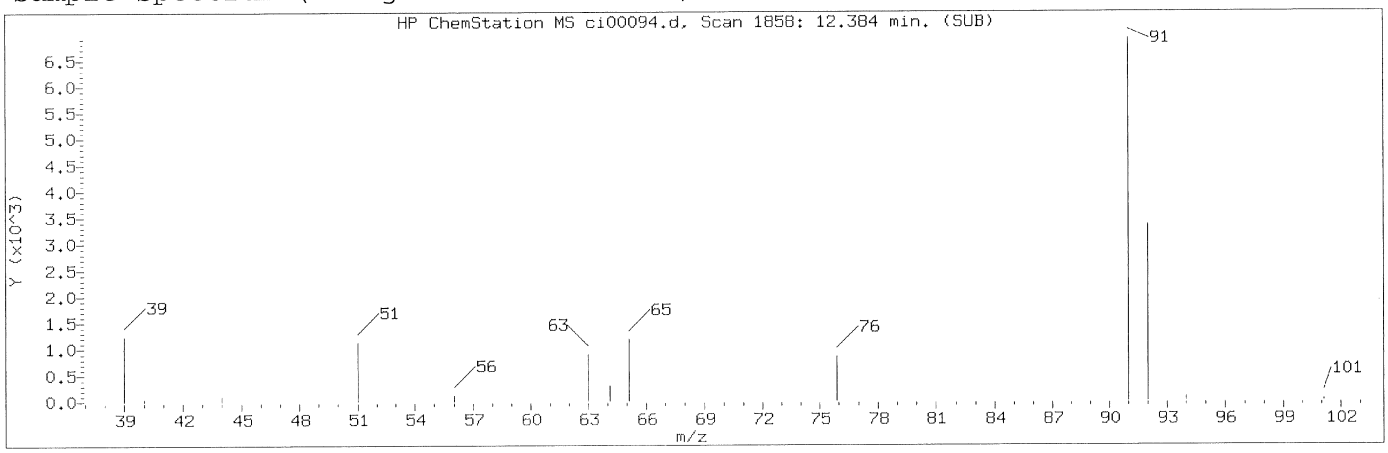
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

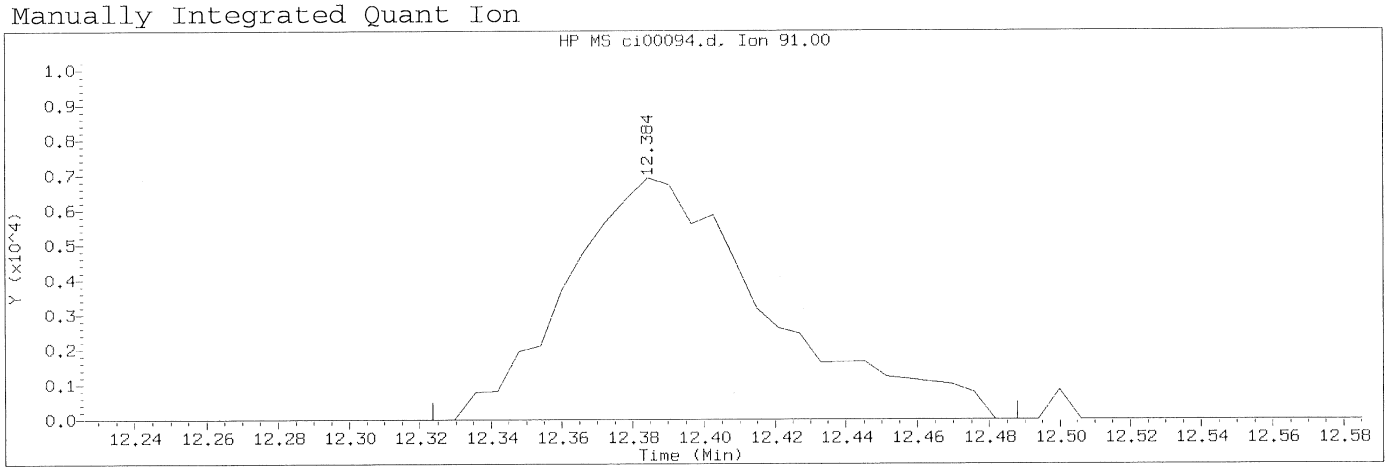
Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 1557		
Retention Time (minutes)	: 10.553		
Quant Ion	: 88.00		
Area	: 2915		
Concentration (ppb(v))	: 0.1279		
Integration start scan	: 1552	Integration stop scan:	1569
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

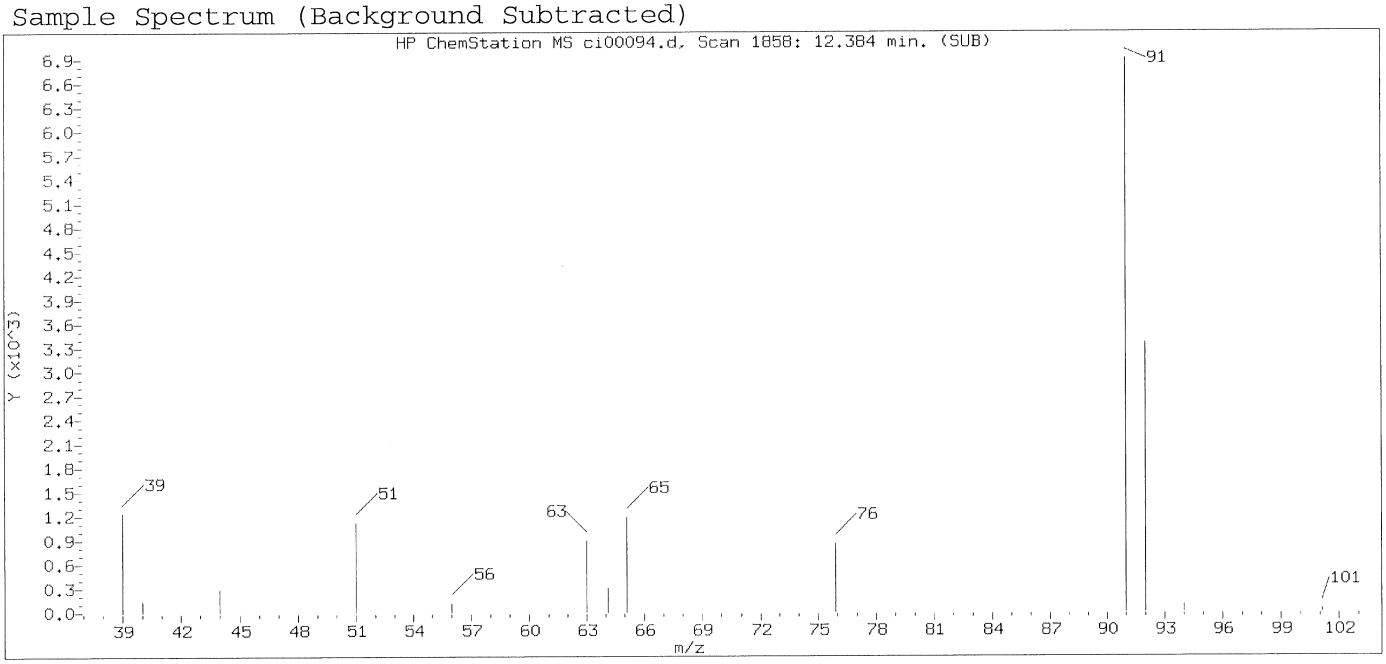
Compound Number : 61
Compound Name : Toluene
Scan Number : 1858
Retention Time (minutes): 12.384
Quant Ion : 91.00
Area (flag) : 27035M
Concentration (ppb(v)) : 0.1800
Integration start scan : 1847 Integration stop scan: 1874
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

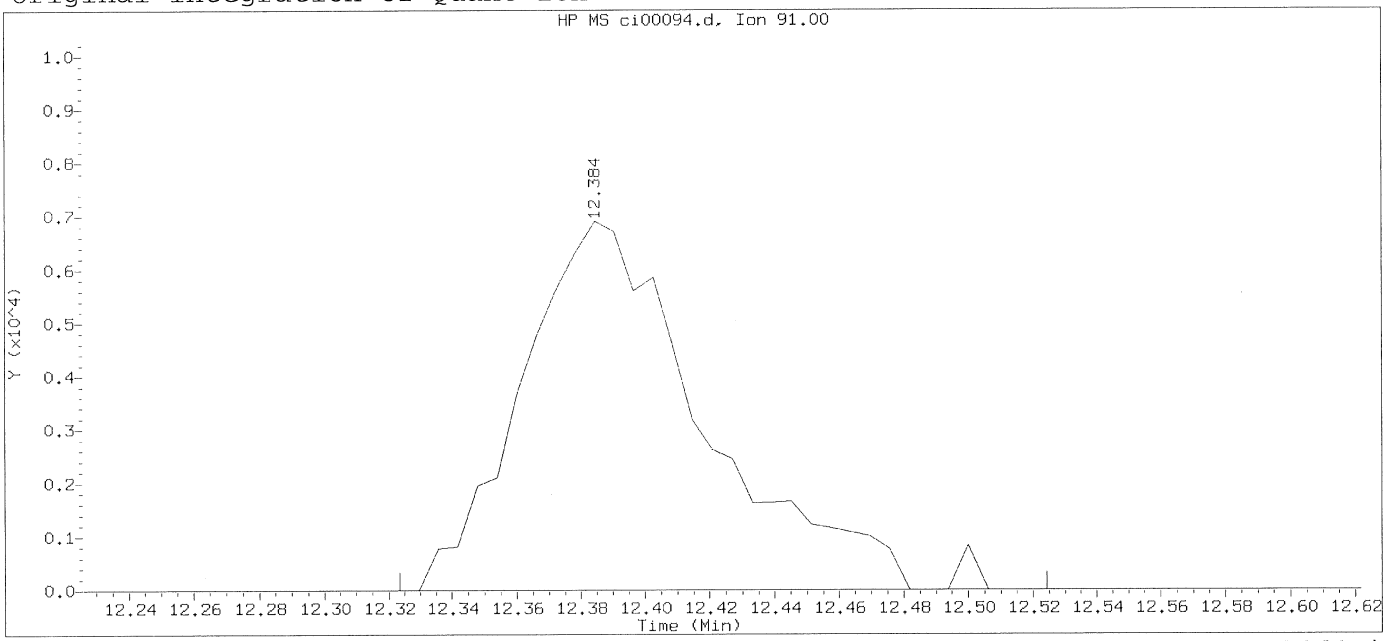
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57. Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mdp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

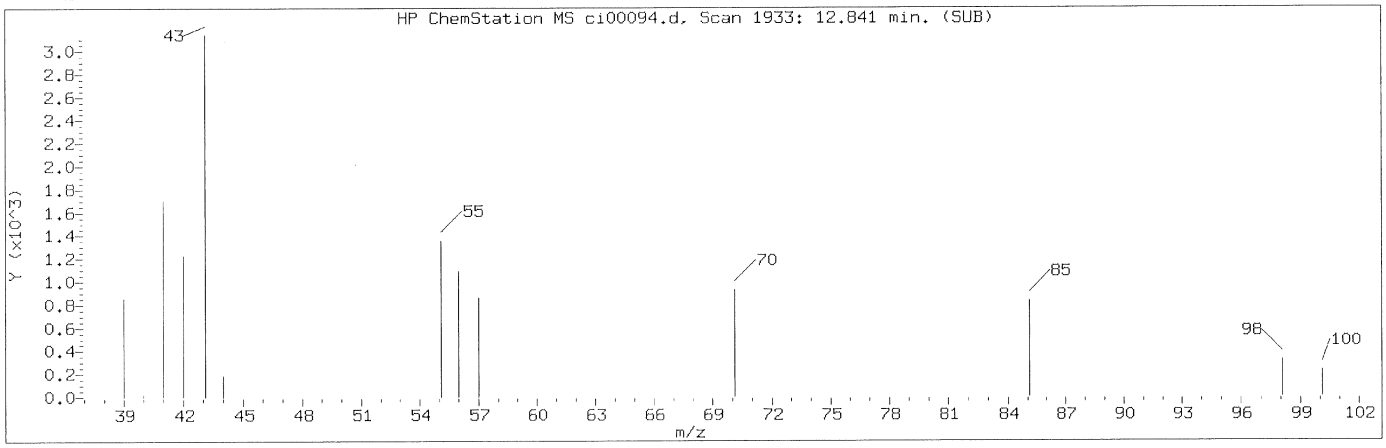
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

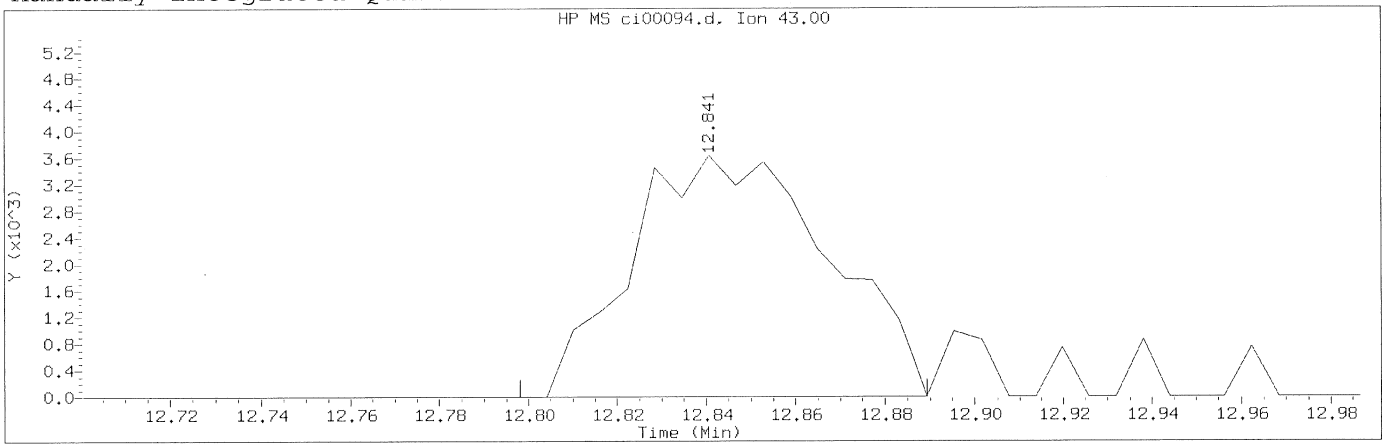
Compound Number	: 61		
Compound Name	: Toluene		
Scan Number	: 1858		
Retention Time (minutes)	: 12.384		
Quant Ion	: 91.00		
Area	: 27341		
Concentration (ppb(v))	: 0.2188		
Integration start scan	: 1847	Integration stop scan:	1880
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

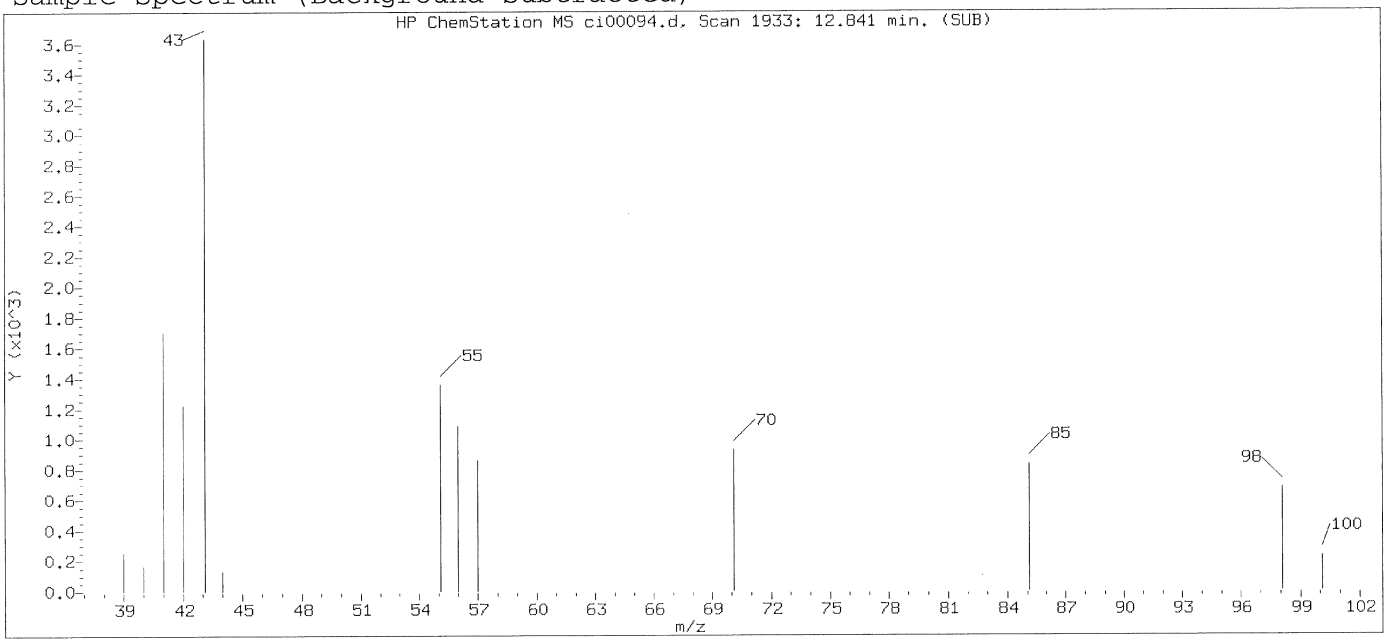
Compound Number	: 62		
Compound Name	: Octane		
Scan Number	: 1933		
Retention Time (minutes)	: 12.841		
Quant Ion	: 43.00		
Area (flag)	: 11198M		
Concentration (ppb(v))	: 0.0675		
Integration start scan	: 1925	Integration stop scan:	1940
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

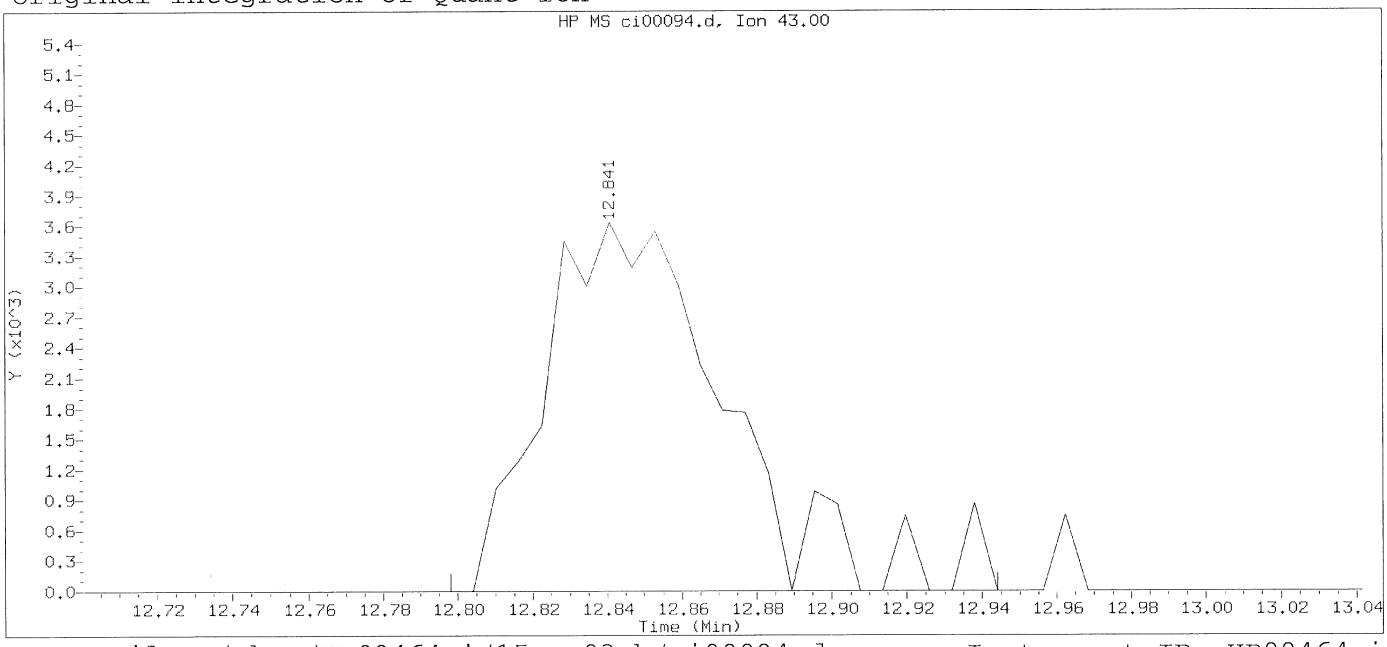
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

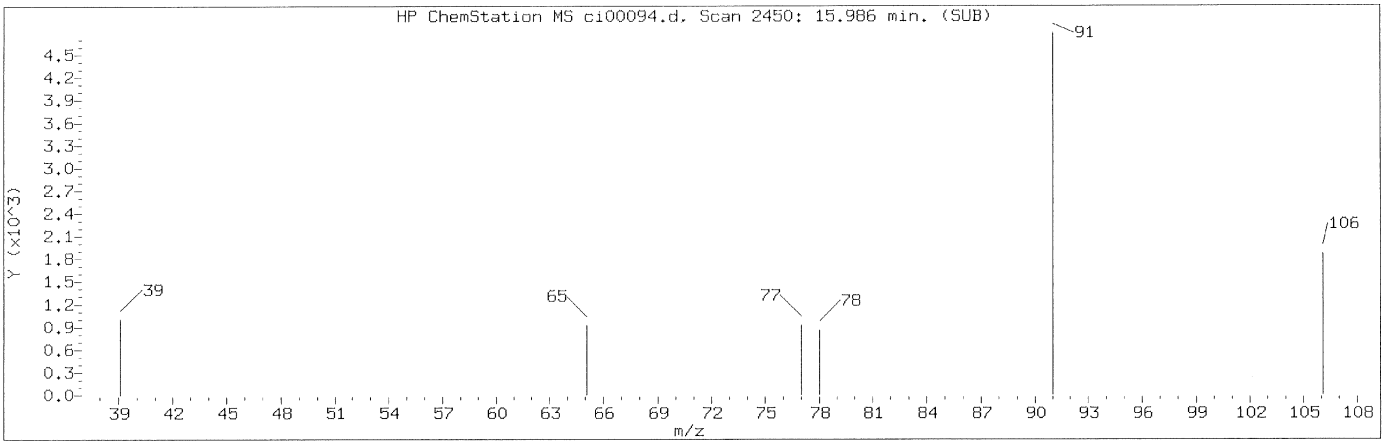
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

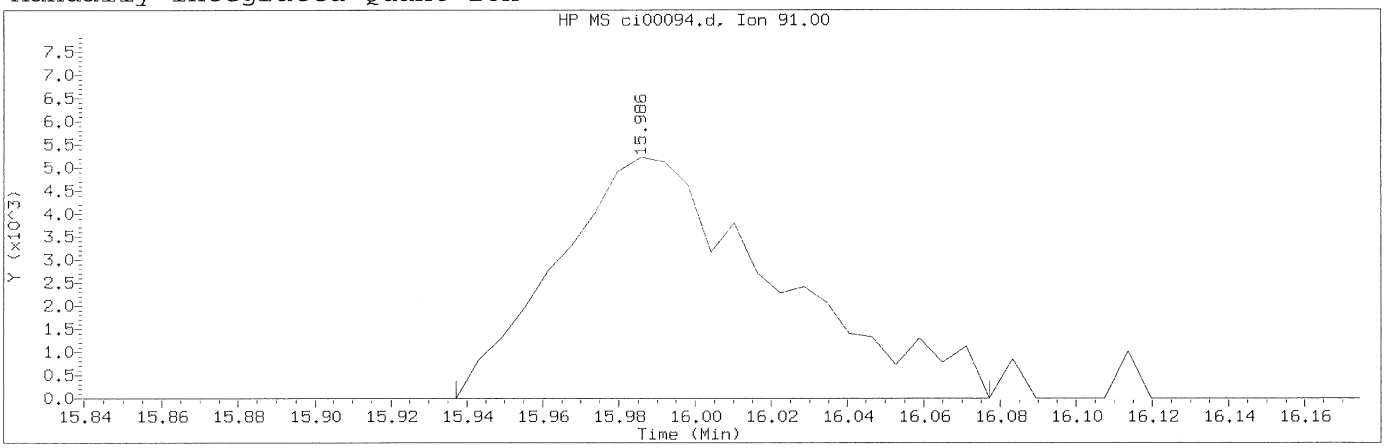
Compound Number	: 62		
Compound Name	: Octane		
Scan Number	: 1933		
Retention Time (minutes)	: 12.841		
Quant Ion	: 43.00		
Area	: 12456		
Concentration (ppb(v))	: 0.1071		
Integration start scan	: 1925	Integration stop scan:	1949
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

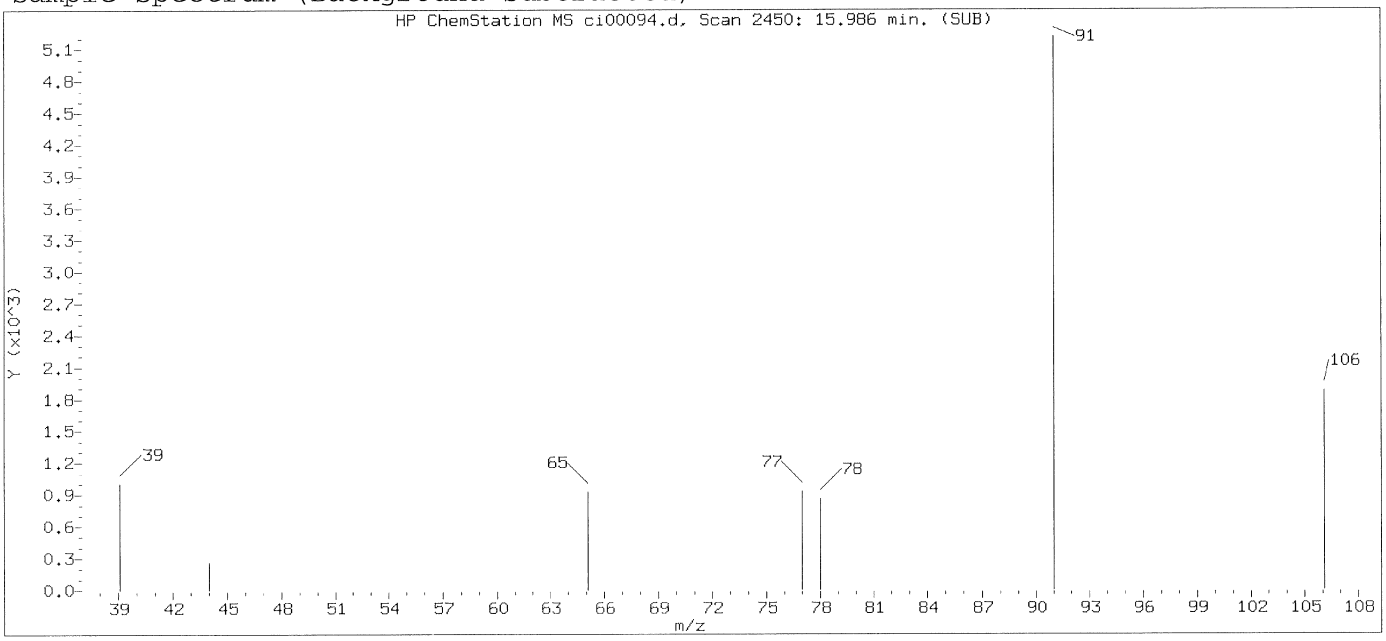
Compound Number	: 74		
Compound Name	: Ethylbenzene		
Scan Number	: 2450		
Retention Time (minutes)	: 15.986		
Quant Ion	: 91.00		
Area (flag)	: 20882M		
Concentration (ppb(v))	: 0.1309		
Integration start scan	: 2441	Integration stop scan:	2464
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

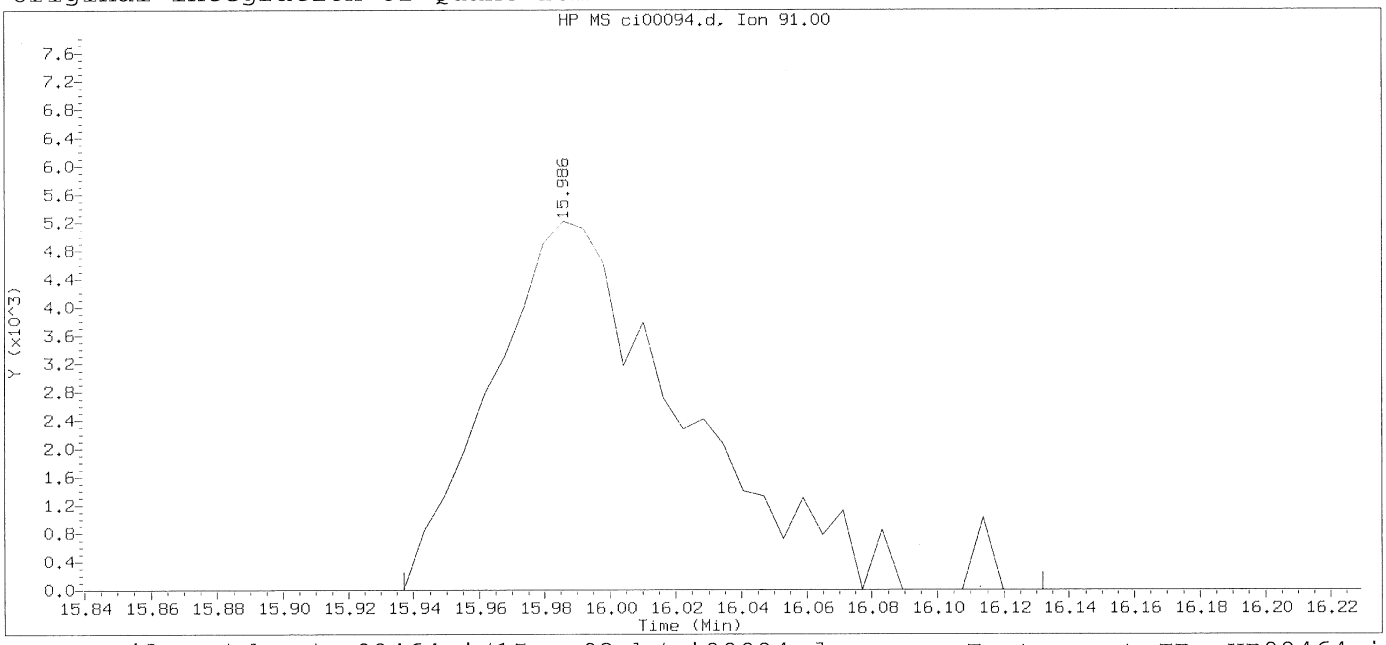
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

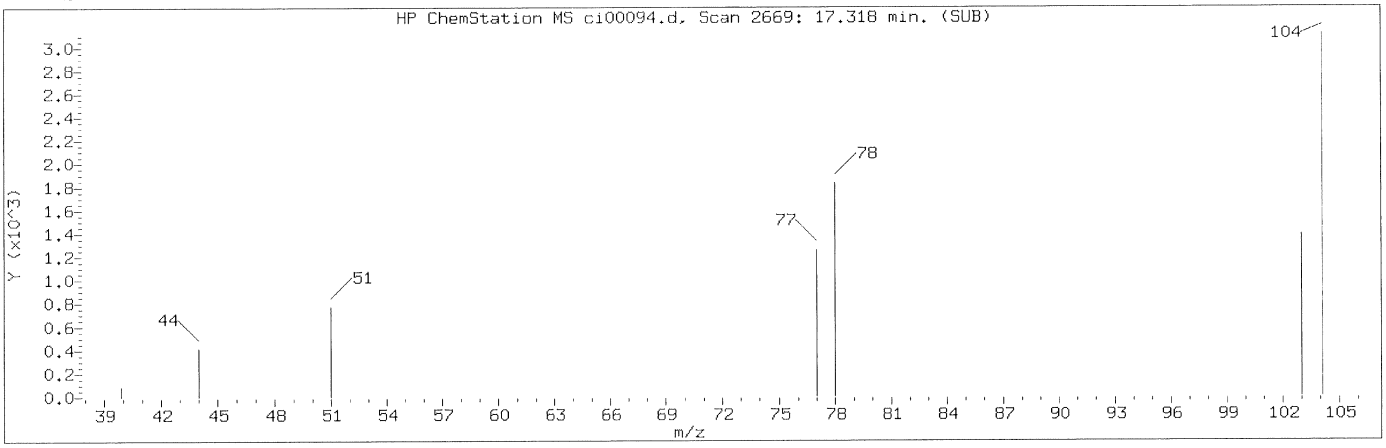
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

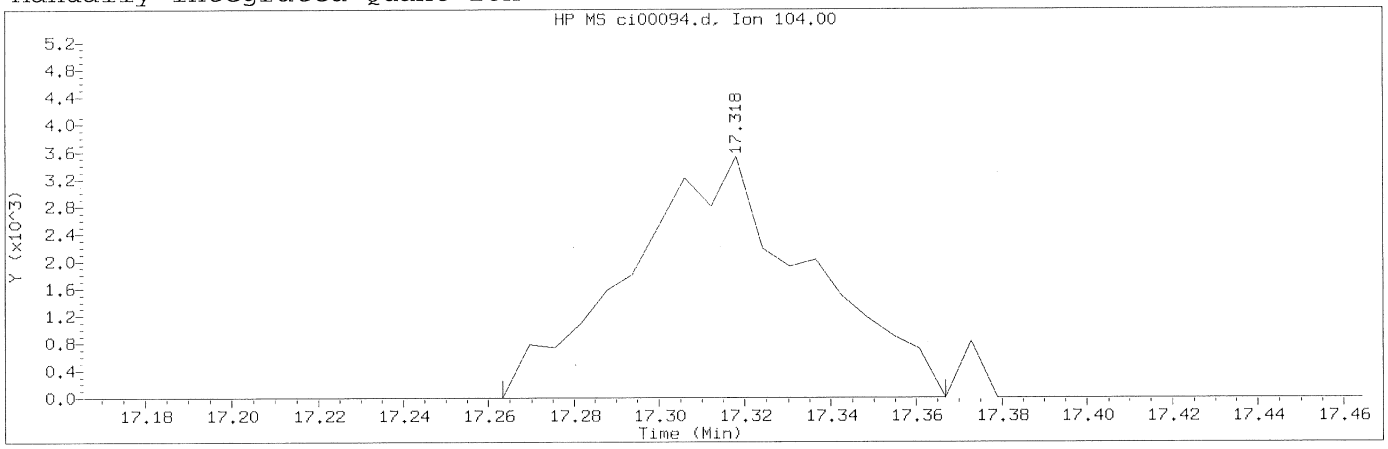
Compound Number	: 74		
Compound Name	: Ethylbenzene		
Scan Number	: 2450		
Retention Time (minutes)	: 15.986		
Quant Ion	: 91.00		
Area	: 21566		
Concentration (ppb(v))	: 0.1472		
Integration start scan	: 2441	Integration stop scan:	2473
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

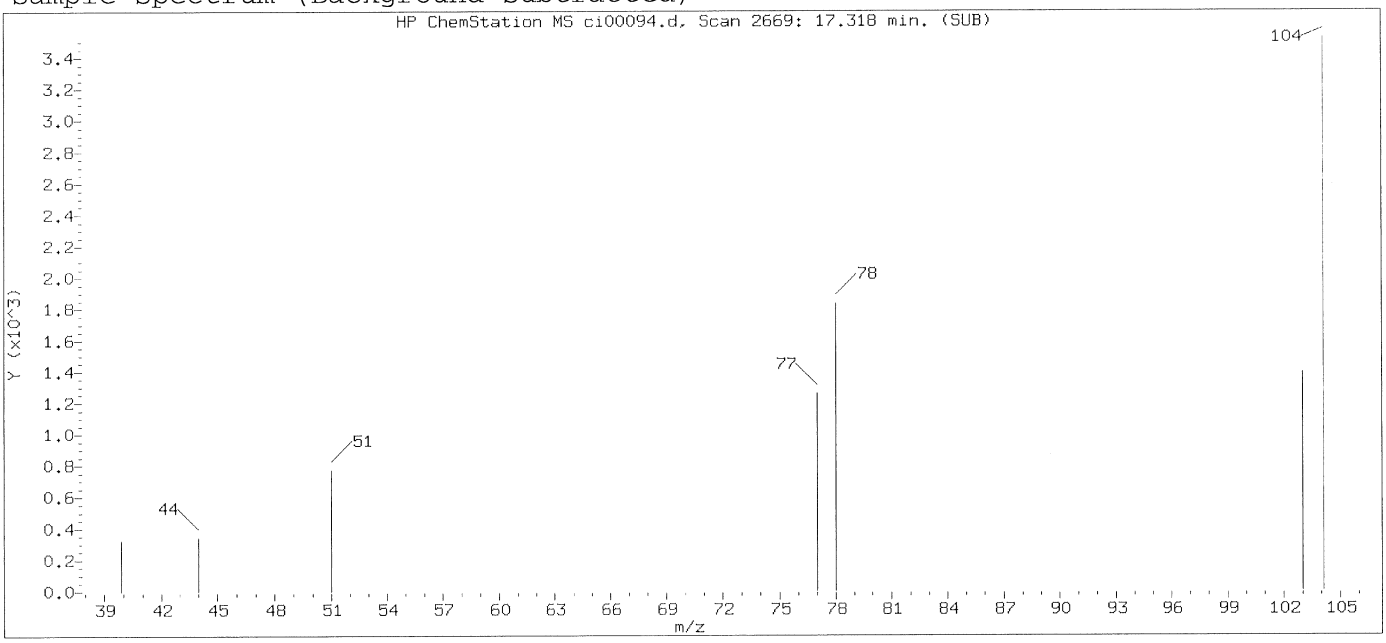
Compound Number	: 78		
Compound Name	: Styrene		
Scan Number	: 2669		
Retention Time (minutes)	: 17.318		
Quant Ion	: 104.00		
Area (flag)	: 10372M		
Concentration (ppb(v))	: 0.1019		
Integration start scan	: 2659	Integration stop scan:	2676
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

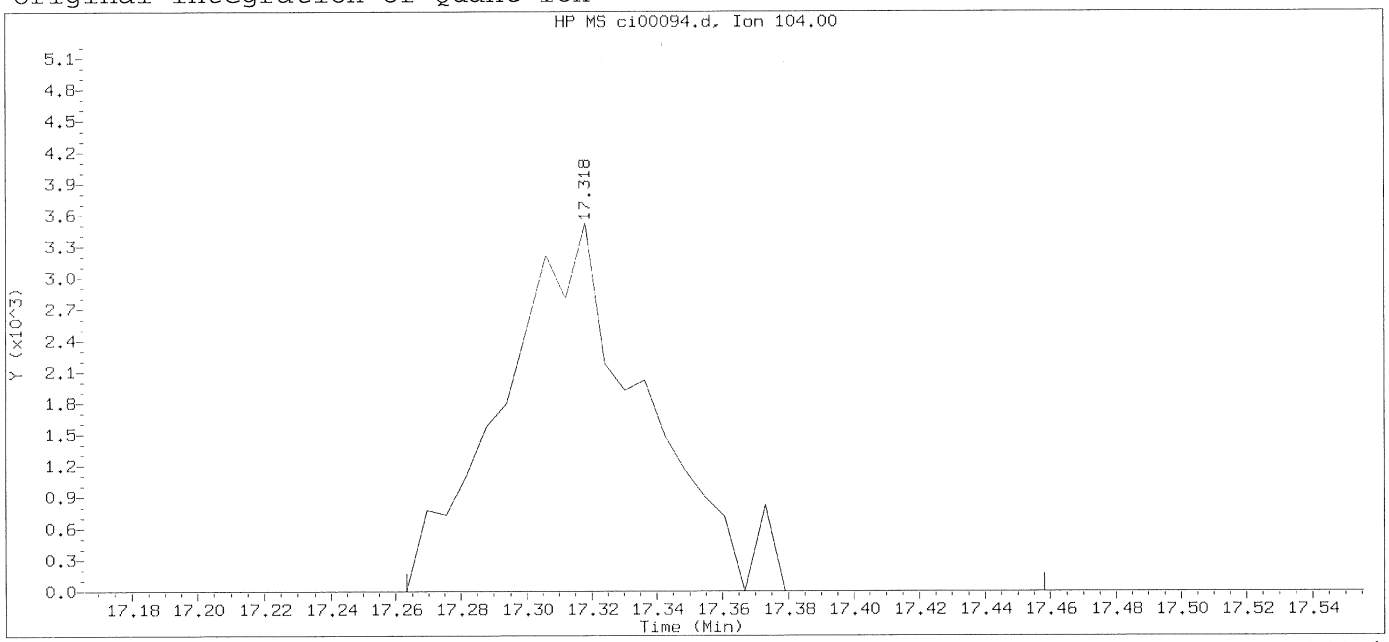
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

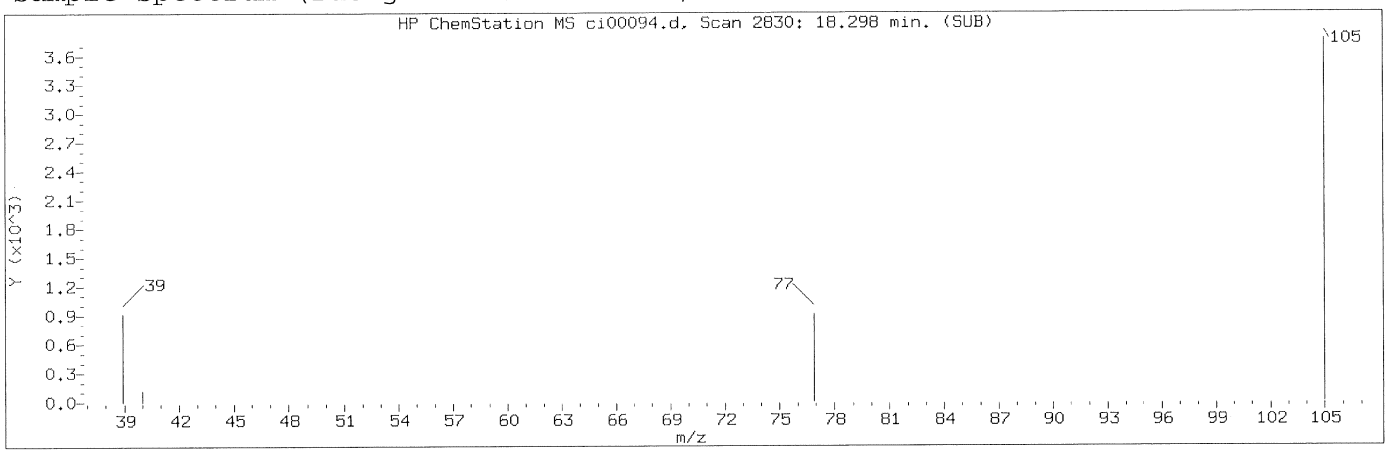
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

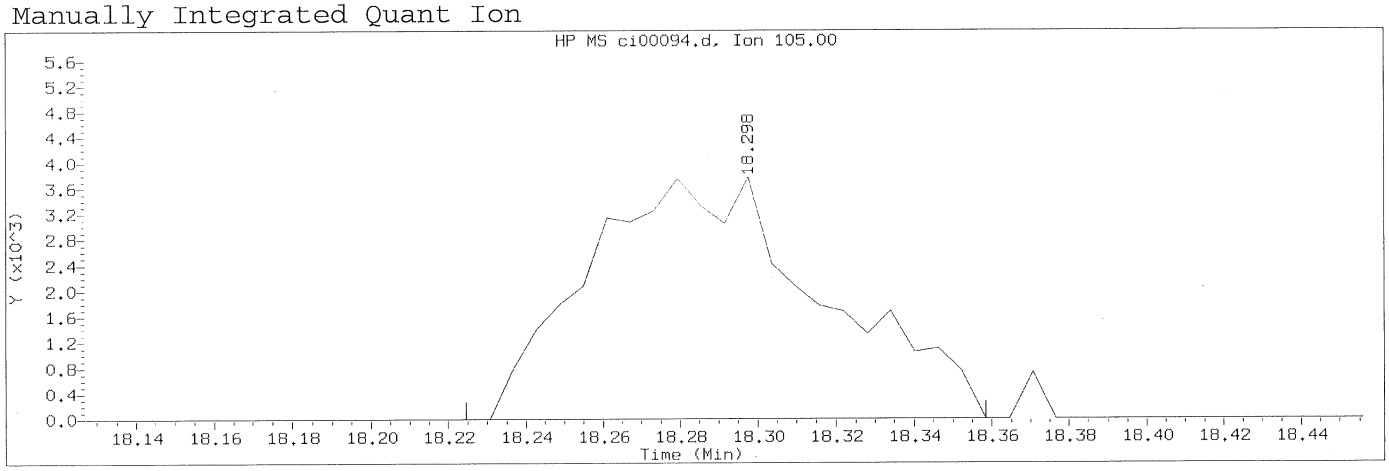
Compound Number	: 78		
Compound Name	: Styrene		
Scan Number	: 2669		
Retention Time (minutes)	: 17.318		
Quant Ion	: 104.00		
Area	: 10674		
Concentration (ppb(v))	: 0.1164		
Integration start scan	: 2659	Integration stop scan:	2691
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

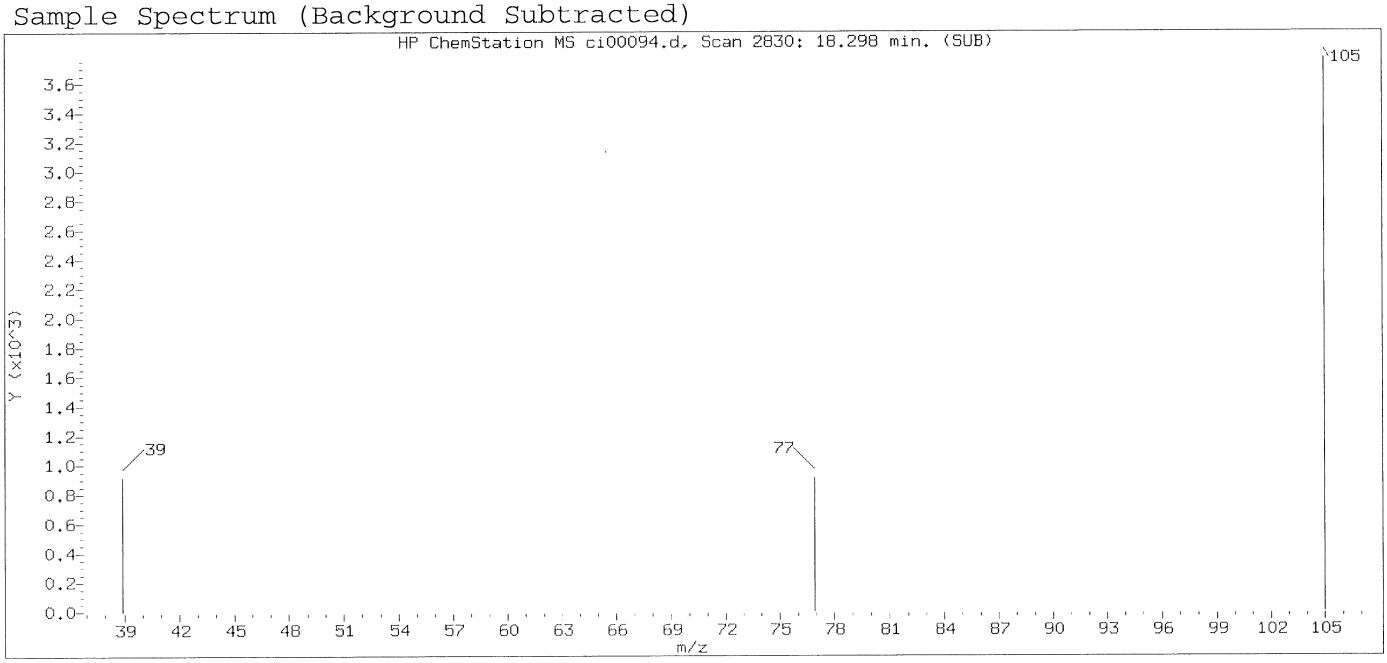
Compound Number	: 80		
Compound Name	: Cumene		
Scan Number	: 2830		
Retention Time (minutes)	: 18.298		
Quant Ion	: 105.00		
Area (flag)	: 15799M		
Concentration (ppb(v))	: 0.1092		
Integration start scan	: 2817	Integration stop scan:	2839
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

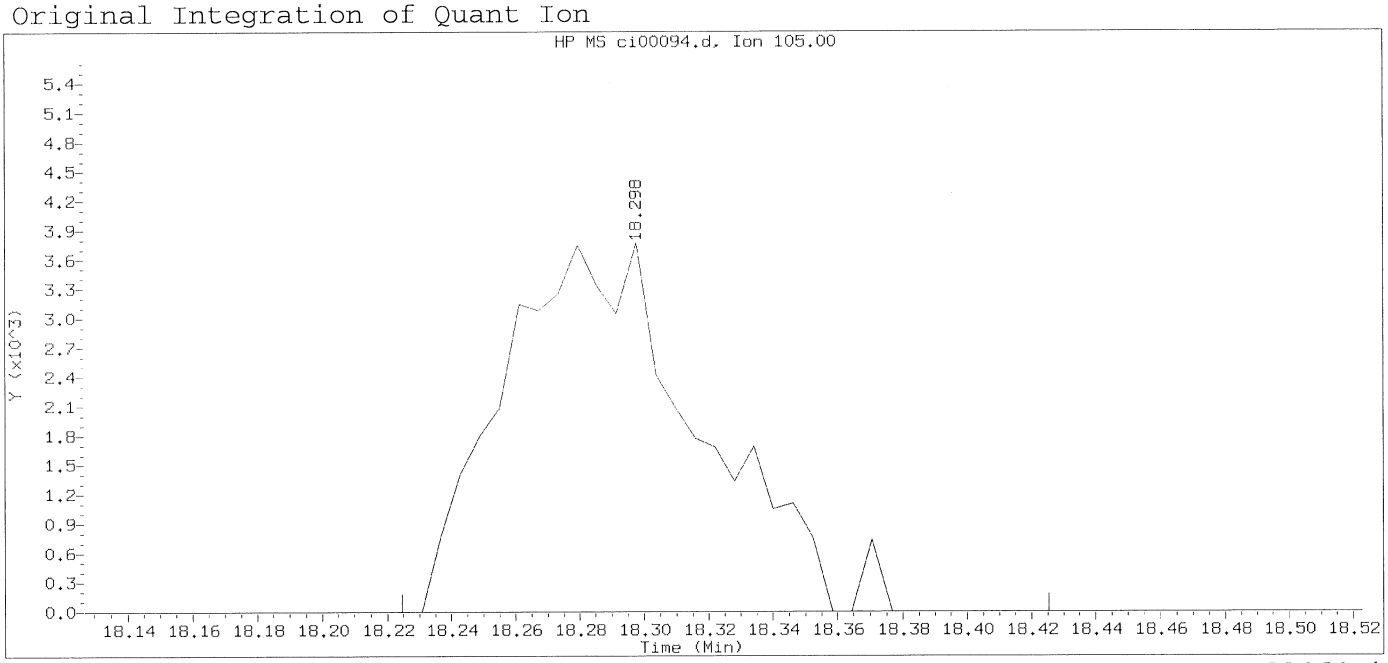
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57. Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpp 1758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

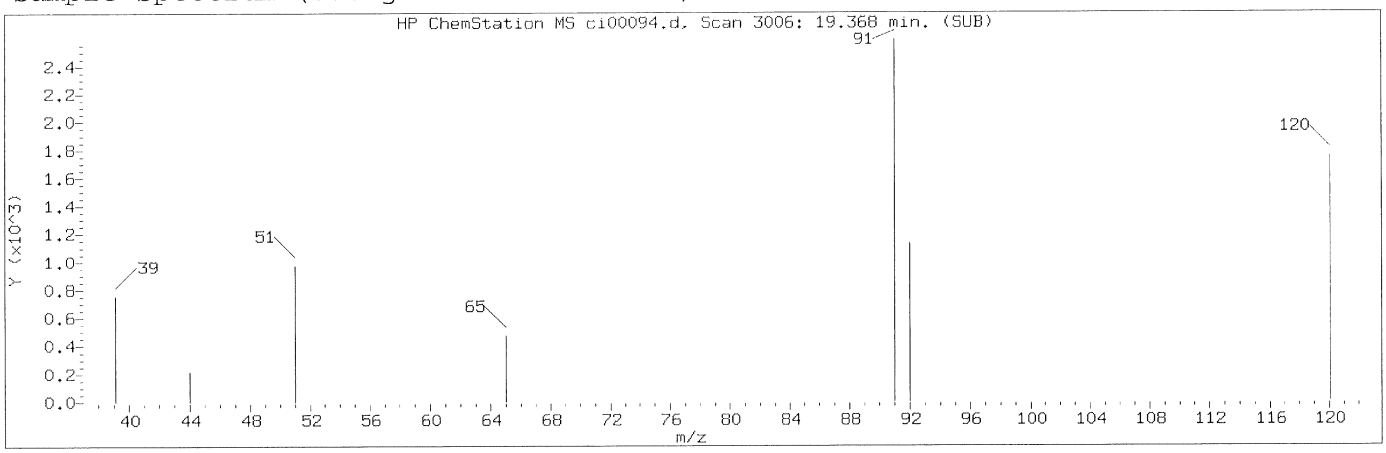
Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

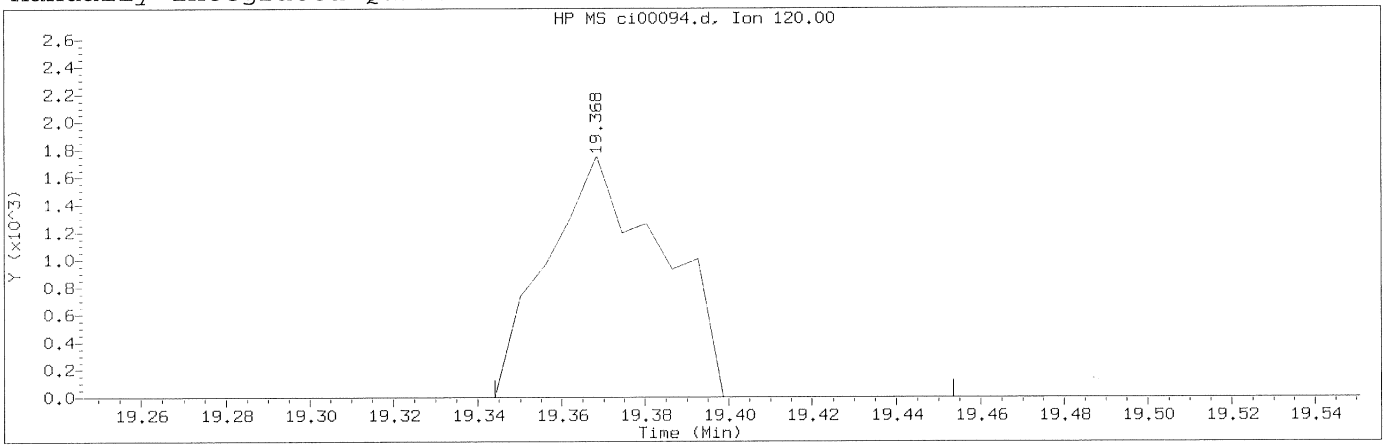
Compound Number	: 80		
Compound Name	: Cumene		
Scan Number	: 2830		
Retention Time (minutes)	: 18.298		
Quant Ion	: 105.00		
Area	: 16066		
Concentration (ppb(v))	: 0.1131		
Integration start scan	: 2817	Integration stop scan:	2850
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 08-SEP-2015 14:57
Date, time and analyst ID of latest file update: 08-Sep-2015 14:57 jeb07445

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

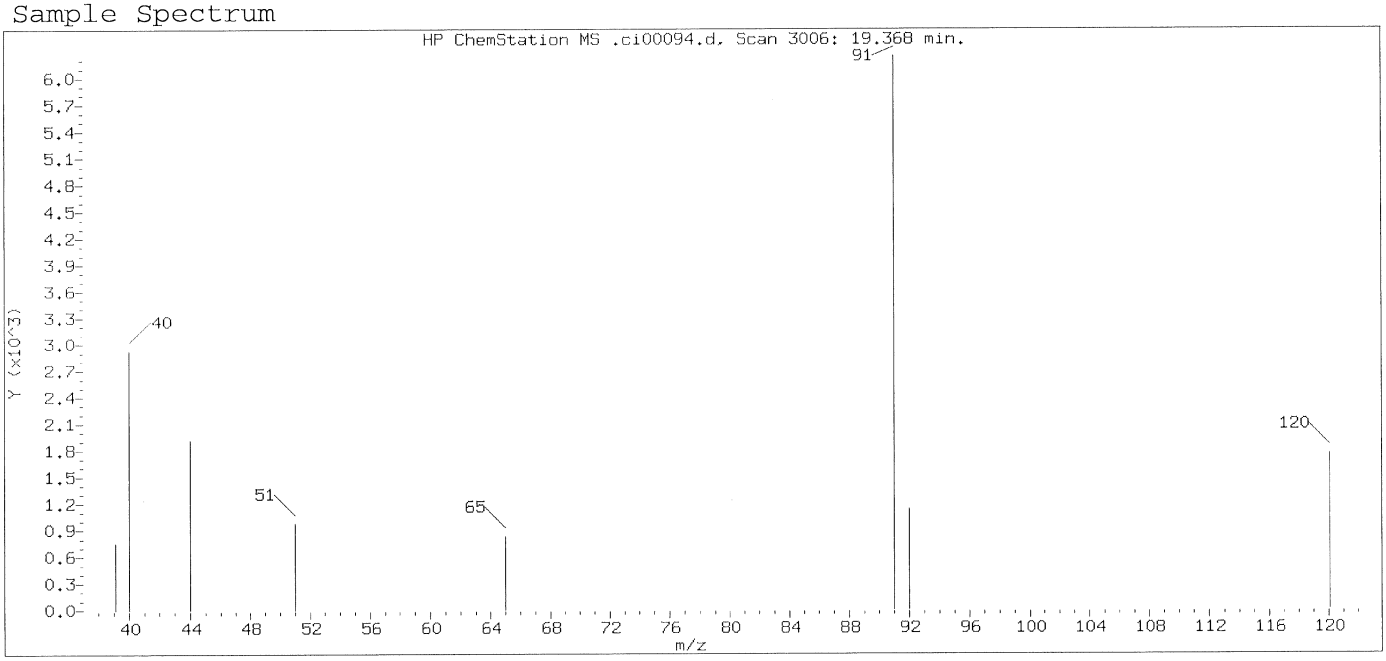
Compound Number : 84
Compound Name : n-Propylbenzene
Scan Number : 3006
Retention Time (minutes): 19.368
Quant Ion : 120.00
Area (flag) : 3339M
Concentration (ppb(v)) : 0.0799
Integration start scan : 3001 Integration stop scan: 3019
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

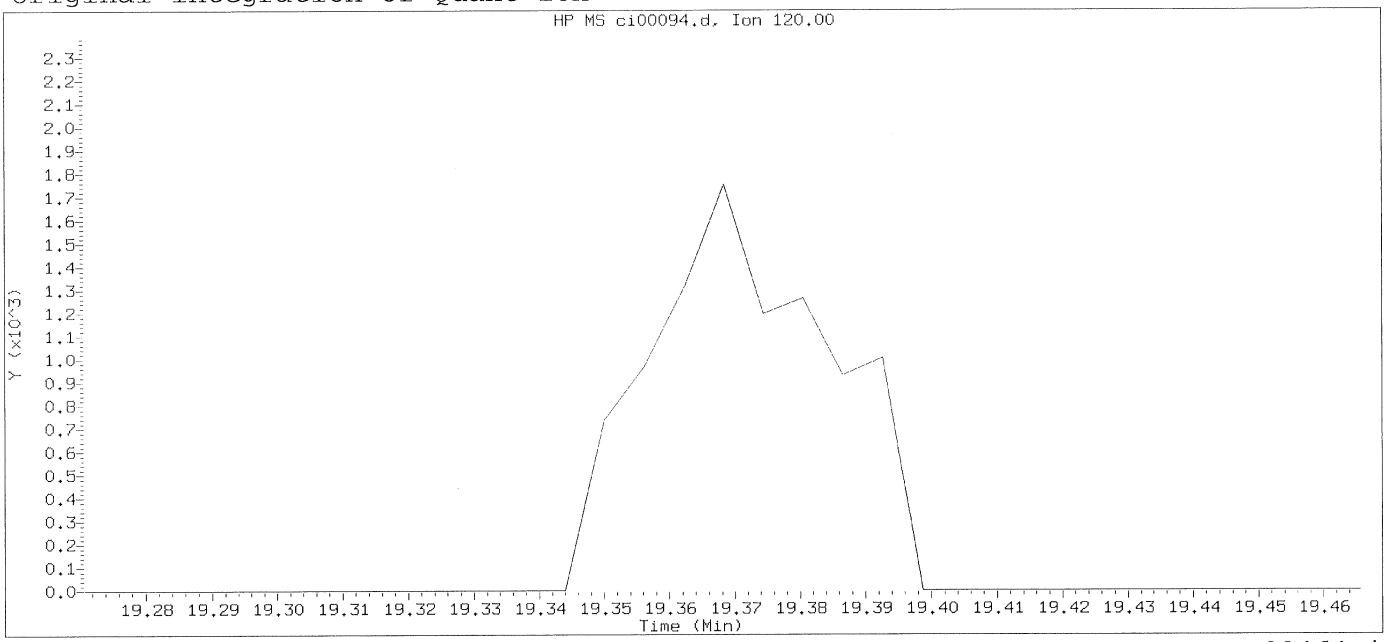
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mpp1758 918/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 05:38 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 03-SEP-2015 20:54
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compound Number : 84
Compound Name : n-Propylbenzene
Expected RT (minutes) : 19.368
Quant Ion : 120.00

Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.
Target 3.5 esignature user ID: jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

VBLKC75

Data file: /chem/HP09464.i/15sep03.b/ci00096.d Injection date and time: **04-SEP-2015 10:29**
Data file Sample Info. Line: VBLKC75;;C1524630AA;VBLKC75;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.244(-0.012)	1013	130	489337 (-22)	10.00		377640 - 881158
51) 1,4-Difluorobenzene	9.239(-0.018)	1341	114	1686652 (4)	10.00		971337 - 2266453
71) Chlorobenzene-d5	15.560(-0.006)	2380	117	1681592 (11)	10.00		908333 - 2119441

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)			Not Detected					0.5	1
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					1	2
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)			Not Detected					0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)			Not Detected					0.5	1
22) Isopropanol	(1)			Not Detected					0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
32) Vinyl Acetate	(1)			Not Detected					1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
38) Ethyl Acetate	(1)			Not Detected					0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)			Not Detected					0.5	1
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
44) Cyclohexane	(1)			Not Detected					0.2	1

Digitally signed by Jacob E. Bailey on 09/09/2015 at 14:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00096.d Injection date and time: **04-SEP-2015 10:29**
Data file Sample Info. Line: VBLKC75;;C1524630AA;VBLKC75;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)				Not Detected					0.2	1
46) Benzene	(2)				Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)				Not Detected					0.2	1
48) Isooctane	(2)				Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)				Not Detected					0.2	1
50) Heptane	(2)				Not Detected					0.5	1
52) Trichloroethene	(2)				Not Detected					0.2	1
53) Ethyl Acrylate	(2)				Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)				Not Detected					0.2	1
55) Dibromomethane	(2)				Not Detected					0.2	1
56) 1,4-Dioxane	(2)				Not Detected					0.5	1
57) Methyl Methacrylate	(2)				Not Detected					0.2	1
58) Bromodichloromethane	(2)				Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)				Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)				Not Detected					0.5	2
61) Toluene	(3)				Not Detected					0.2	1
62) Octane	(3)				Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)				Not Detected					0.2	1
64) 1,3-Dichloropropene (total)	(3)				Not Detected					0.2	1
65) Ethyl Methacrylate	(3)				Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)				Not Detected					0.2	1
67) Tetrachloroethene	(3)				Not Detected					0.2	1
68) 2-Hexanone	(3)				Not Detected					0.5	2
69) Dibromochloromethane	(3)				Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
77) Xylene (total)	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
84) n-Propylbenzene	(3)				Not Detected					0.5	1
85) 2-Chlorotoluene	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
88) Alpha Methyl Styrene	(3)				Not Detected					0.2	1
89) tert-Butylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
91) sec-Butylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
94) p-Isopropyltoluene	(3)				Not Detected					0.2	1
95) Benzyl Chloride	(3)				Not Detected					0.5	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
97) n-Butylbenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)				Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)				Not Detected					0.5	2

Digitally signed by Jacob E. Bailey on 09/09/2015 at 14:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00096.d Injection date and time: **04-SEP-2015 10:29**
Data file Sample Info. Line: VBLKC75;;C1524630AA;VBLKC75;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

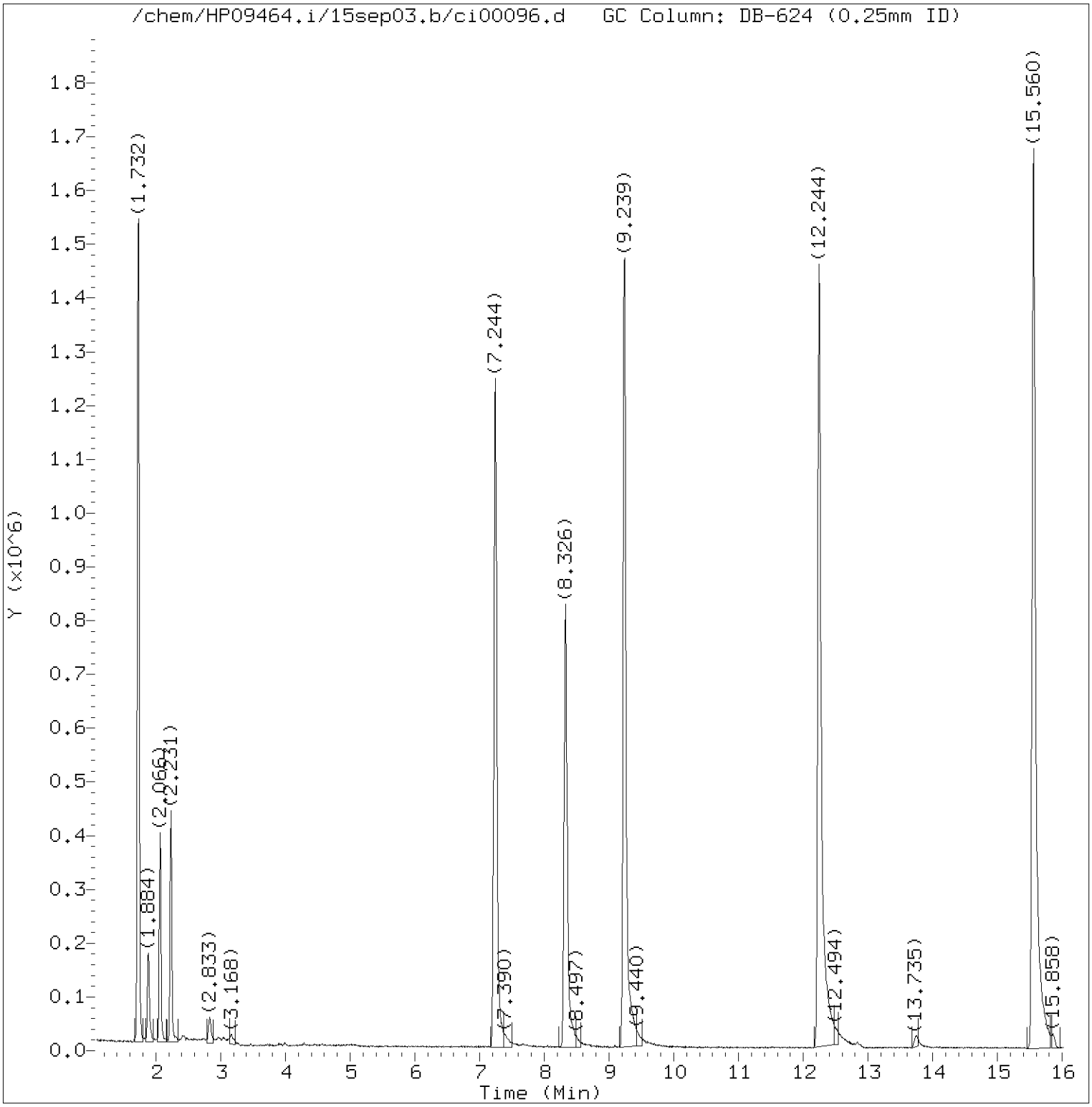
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)				Not Detected					0.4	2
102) Naphthalene	(3)				Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/09/2015 at 14:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/10/2015 at 09:23. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

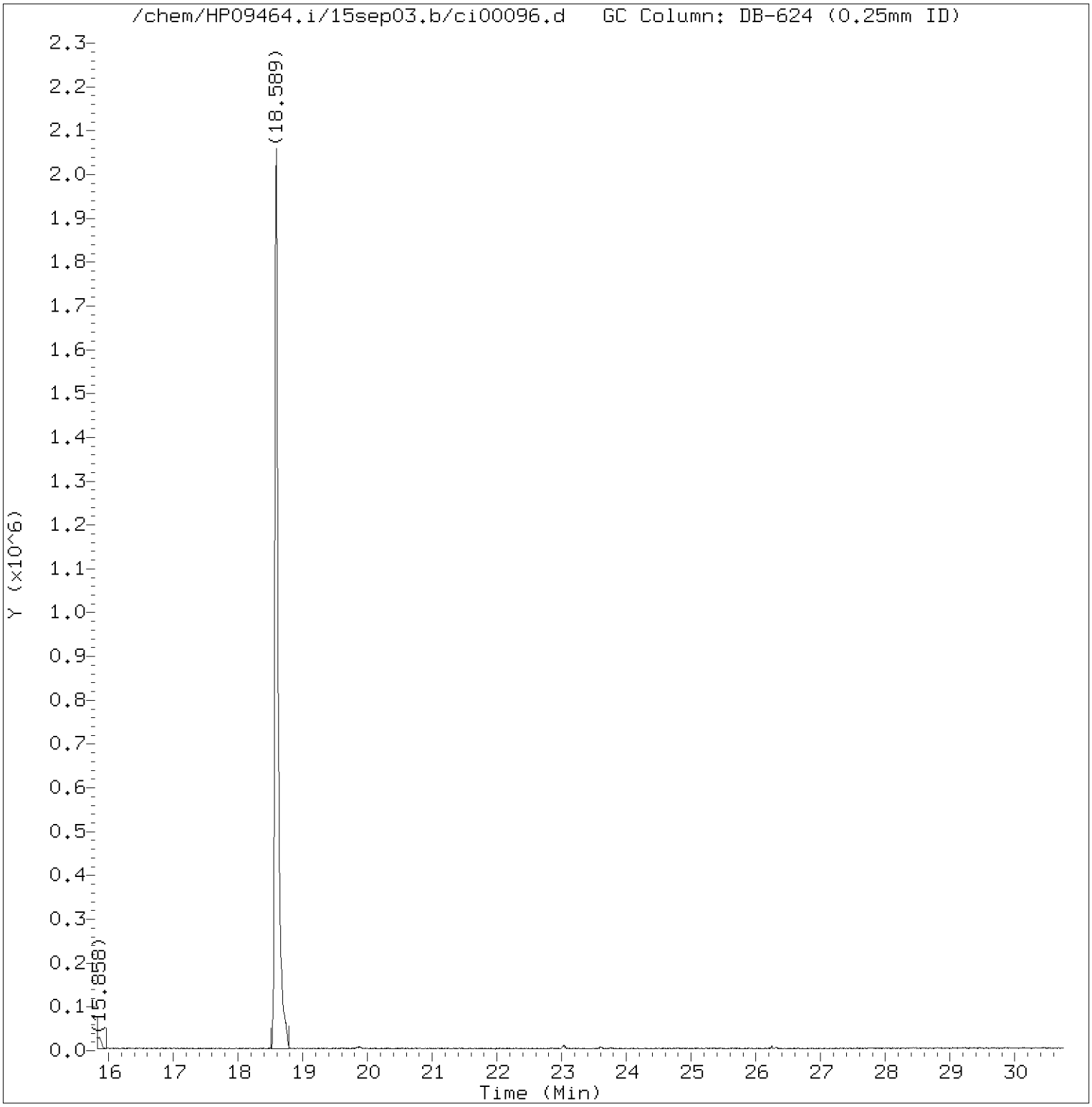
Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00096.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 10:29 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75 Lab Sample ID: VBLKC75

Digitally signed by Jacob E. Bailey
on 09/09/2015 at 14:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00096.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 10:29 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75 Lab Sample ID: VBLKC75

Digitally signed by Jacob E. Bailey
on 09/09/2015 at 14:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00096.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 10:29 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75 Lab Sample ID: VBLKC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.244	130	489337	10.000
51)*1,4-Difluorobenzene	(2)	9.239	114	1686652	10.000
71)*Chlorobenzene-d5	(3)	15.560	117	1681592	10.000

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 09/09/2015 at 14:59.
Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: **04-SEP-2015 12:04**
Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.232(0.000)	1011	130	478092 (-24)	10.00		377640 - 881158
51) 1,4-Difluorobenzene	9.221(0.000)	1338	114	1262882 (-22)	10.00		971337 - 2266453
71) Chlorobenzene-d5	15.554(0.000)	2379	117	1308224 (-14)	10.00		908333 - 2119441

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.872(-0.000)	41	906721	10.151	10.15			0.5	1
2) Dichlorodifluoromethane	(1)	1.908(-0.000)	85	2232591	9.587	9.59			0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.048(-0.000)	85	2128361	10.003	10.00			0.2	1
5) Chloromethane	(1)	2.097(-0.000)	52	346043	8.553	8.55			0.2	1
6) Vinyl Chloride	(1)	2.225(-0.000)	62	1118090	10.201	10.20			0.2	1
7) 1,3-Butadiene	(1)	2.273(-0.000)	54	884677	9.605	9.60			0.4	2
8) Bromomethane	(1)	2.590(-0.000)	94	756488	9.188	9.19			0.2	1
9) Chloroethane	(1)	2.718(-0.000)	64	592712	8.875	8.88			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.034(-0.000)	101	2210136	9.582	9.58			0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)	3.326(-0.000)	45	364669	7.540	7.54			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.581(-0.001)	56	245983	10.616	10.62			1	2
17) 1,1-Dichloroethene	(1)	3.703(0.000)	61	1806182	10.596	10.60			0.2	1
18) Freon 113	(1)	3.746(0.000)	103	1020596	9.310	9.31			0.5	2
19) Acetone	(1)	3.812(-0.001)	43	913425	11.288	11.29			0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	3.983(-0.000)	76	2831637	9.498	9.50			0.5	1
22) Isopropanol	(1)	4.092(-0.001)	45	1334192	9.920	9.92			0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.445(-0.000)	84	845282	10.808	10.81			0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)	4.938(-0.000)	61	1728874	9.153	9.15			0.2	1
29) Methyl t-Butyl Ether	(1)	5.029(-0.003)	73	1378948	11.113	11.11			0.2	1
30) Hexane	(1)	5.522(-0.000)	57	1314811	9.971	9.97			0.2	1
31) 1,1-Dichloroethane	(1)	5.711(-0.000)	63	1418208	8.884	8.88			0.2	1
32) Vinyl Acetate	(1)	5.918(-0.001)	86	83322	12.290	12.29			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.806(-0.000)	61	1072049	8.710	8.71			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	2800923	17.863	17.86			0.2	1
37) 2-Butanone	(1)	6.909(-0.001)	72	224955	11.279	11.28			0.5	2
38) Ethyl Acetate	(1)	7.098(-0.001)	70	100139	9.650	9.65			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.390(-0.000)	42	653745	11.263	11.26			0.5	1
42) Chloroform	(1)	7.432(0.000)	83	1382811	9.156	9.16			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.730(0.000)	97	1228398	9.272	9.27			0.2	1
44) Cyclohexane	(1)	7.834(0.000)	56	1484376	10.342	10.34			0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: **04-SEP-2015 12:04**
Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.047(0.000)	117	1310746	10.035	10.03			0.2	1
46) Benzene	(2)	8.424(-0.000)	78	1845504	10.290	10.29			0.2	1
47) 1,2-Dichloroethane	(2)	8.454(-0.000)	62	1016929	10.228	10.23			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.081(-0.000)	43	1466679	10.416	10.42			0.5	1
52) Trichloroethene	(2)	9.689(0.000)	130	626181	8.495	8.49			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.097(0.000)	63	726608	9.928	9.93			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.480(0.000)	88	314024	12.707	12.71			0.5	1
57) Methyl Methacrylate	(2)	10.511(0.000)	69	481043	11.706	11.71			0.2	1
58) Bromodichloromethane	(2)	10.693(0.000)	83	1456521	10.356	10.36			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.666(0.000)	75	979708	12.050	12.05			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.098(0.000)	43	1507932	13.118	13.12			0.5	2
61) Toluene	(3)	12.378(-0.000)	91	1602531	10.717	10.72			0.2	1
62) Octane	(3)			Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)	12.920(-0.000)	75	863275	9.731	9.73			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	1842983	21.781	21.78			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.303(-0.000)	97	599928	9.680	9.68			0.2	1
67) Tetrachloroethene	(3)	13.601(-0.000)	166	596641	8.005	8.00			0.2	1
68) 2-Hexanone	(3)	14.021(-0.000)	43	1662982	12.570	12.57			0.5	2
69) Dibromochloromethane	(3)	14.161(0.000)	127	818027	9.913	9.91			0.2	1
70) 1,2-Dibromoethane	(3)	14.368(-0.000)	107	909134	10.182	10.18			0.2	1
72) Chlorobenzene	(3)	15.615(0.000)	112	1213307	10.197	10.20			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.980(0.000)	91	1747467	11.003	11.00			0.2	1
75) m/p-Xylene	(3)	16.290(-0.000)	91	2800723M	22.048	22.05			0.2	1
76) o-Xylene	(3)	17.263(0.000)	91	1468461	10.936	10.94			0.2	1
77) Xylene (total)	(3)		91	4269184	32.984	32.98			0.2	1
78) Styrene	(3)	17.306(0.000)	104	1120239	11.055	11.05			0.2	1
79) Bromoform	(3)	17.659(0.000)	173	775763	10.697	10.70			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	19.076(0.000)	83	1400764	10.101	10.10			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.5	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.691(0.000)	105	1570928	10.011	10.01			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.885(0.000)	105	1330396	10.049	10.05			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)	20.865(-0.008)	119	55459	0.497	0.50		J	0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.865(0.000)	105	1339963	9.550	9.55			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.534(0.000)	146	945073	9.549	9.55			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.826(0.000)	146	937164	9.290	9.29			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.325(0.000)	91	1466295	9.922	9.92			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.988(0.000)	146	865454	9.413	9.41			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	26.012(0.000)	180	430978	8.303	8.30			0.5	2

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: **04-SEP-2015 12:04**
Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

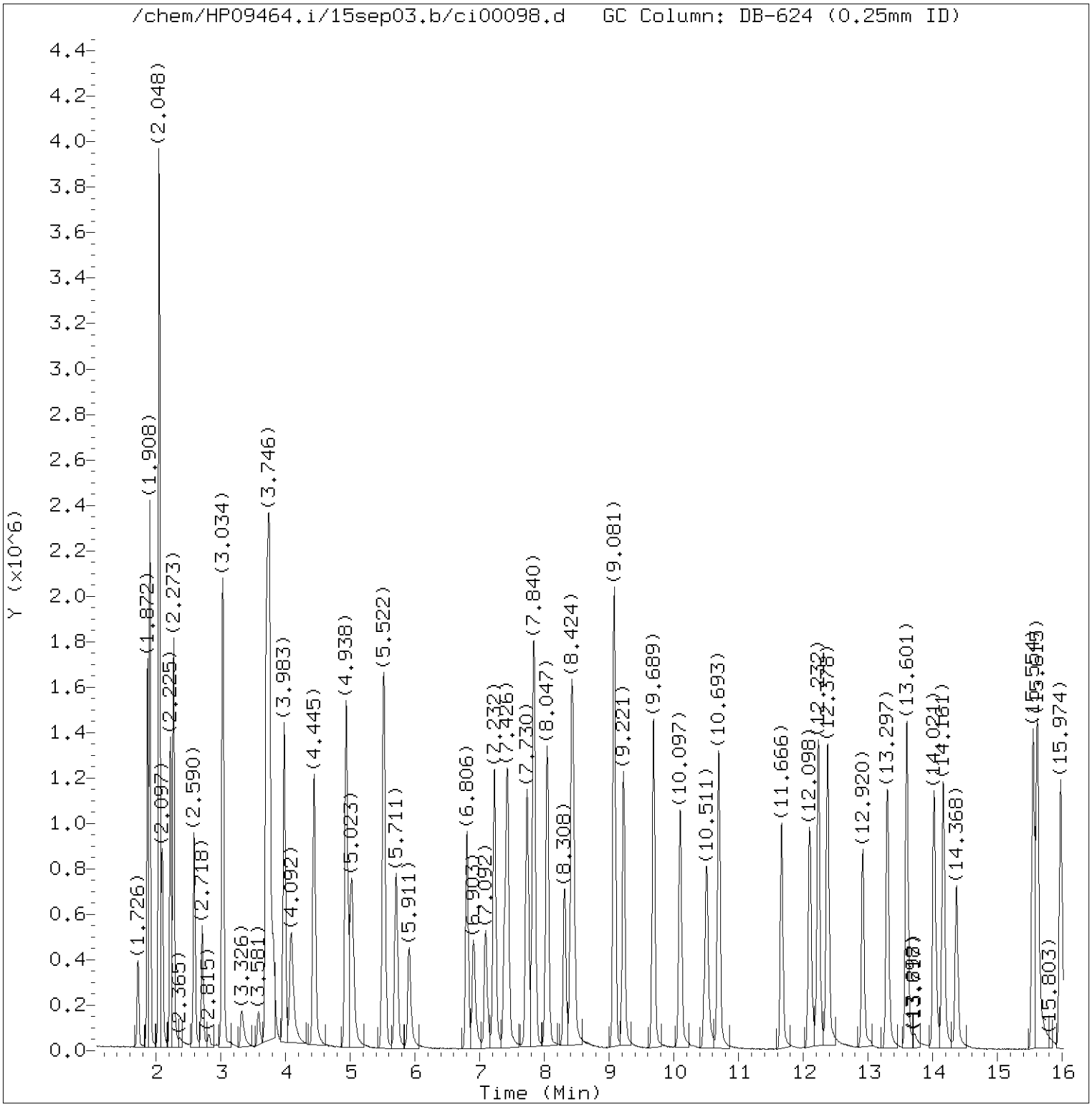
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.291(0.000)	225	400161	8.328	8.33			0.4	2
102) Naphthalene	(3)	26.310(0.000)	128	1327504	9.731	9.73			0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

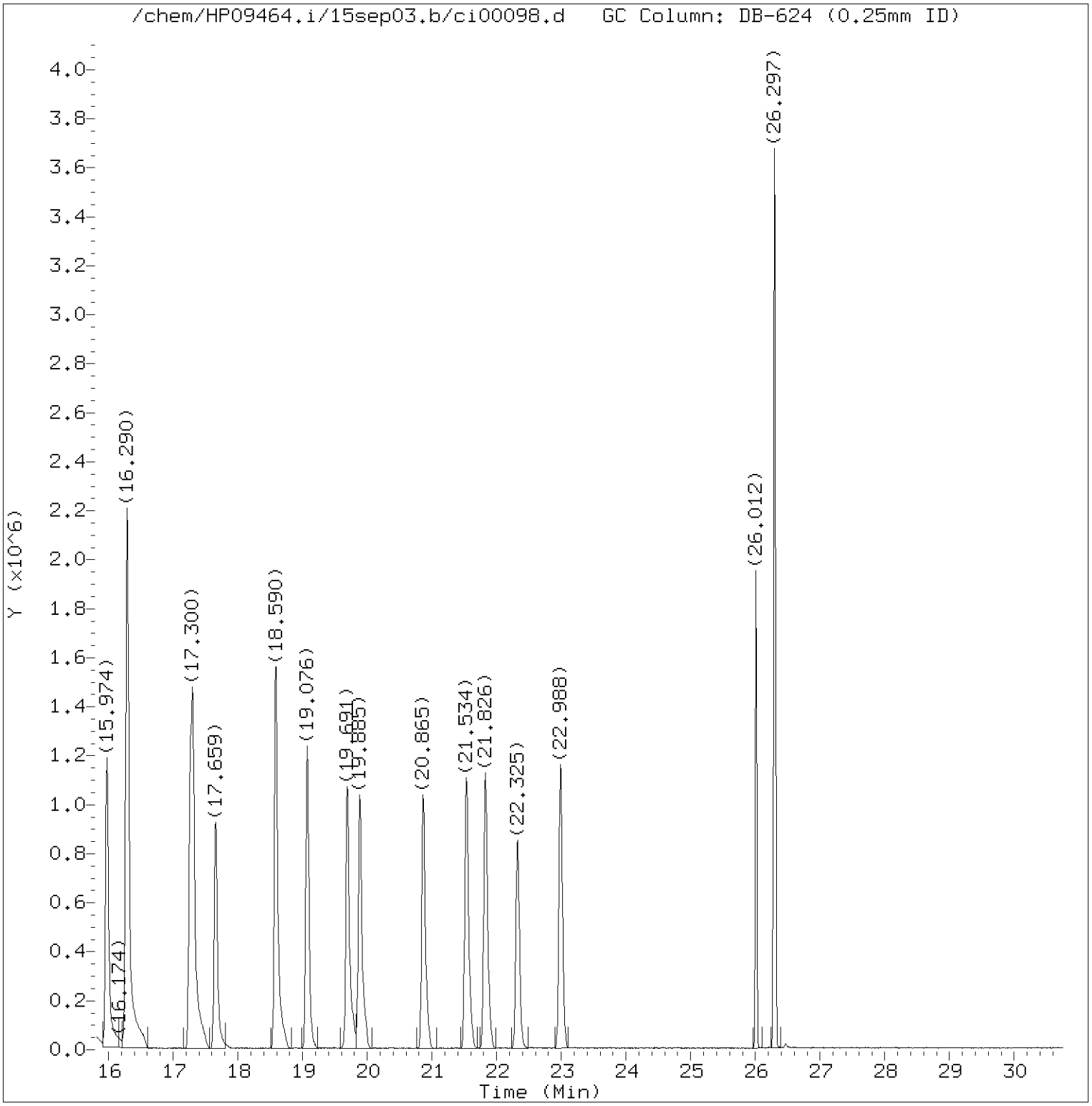
Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75 Lab Sample ID: LCSC75

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75 Lab Sample ID: LCSC75

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75 Lab Sample ID: LCSC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	906721	10.151
2) Dichlorodifluoromethane	(1)	1.908	85	2232591	9.587
4) Freon 114	(1)	2.048	85	2128361	10.003
5) Chloromethane	(1)	2.097	52	346043	8.553
6) Vinyl Chloride	(1)	2.225	62	1118090	10.201
7) 1,3-Butadiene	(1)	2.273	54	884677	9.605
8) Bromomethane	(1)	2.590	94	756488	9.188
9) Chloroethane	(1)	2.718	64	592712	8.875
12) Trichlorofluoromethane	(1)	3.034	101	2210136	9.582
14) Ethanol	(1)	3.326	45	364669	7.540
16) Acrolein	(1)	3.581	56	245983	10.616
17) 1,1-Dichloroethene	(1)	3.703	61	1806182	10.596
18) Freon 113	(1)	3.746	103	1020596	9.310
19) Acetone	(1)	3.813	43	913425	11.288
21) Carbon Disulfide	(1)	3.983	76	2831637	9.498
22) Isopropanol	(1)	4.092	45	1334192	9.920
25) Methylene Chloride	(1)	4.445	84	845282	10.808
28) trans-1,2-Dichloroethene	(1)	4.938	61	1728874	9.153
29) Methyl t-Butyl Ether	(1)	5.029	73	1378948	11.113
30) Hexane	(1)	5.522	57	1314811	9.971
31) 1,1-Dichloroethane	(1)	5.711	63	1418208	8.884
32) Vinyl Acetate	(1)	5.918	86	83322	12.290
36) 1,2-Dichloroethene (total)	(1)		61	2800923	17.863
35) cis-1,2-Dichloroethene	(1)	6.806	61	1072049	8.710
37) 2-Butanone	(1)	6.909	72	224955	11.279
38) Ethyl Acetate	(1)	7.098	70	100139	9.650
40)*Bromochloromethane	(1)	7.232	130	478092	10.000
41) Tetrahydrofuran	(1)	7.390	42	653745	11.263
42) Chloroform	(1)	7.432	83	1382811	9.156
43) 1,1,1-Trichloroethane	(1)	7.730	97	1228398	9.272
44) Cyclohexane	(1)	7.834	56	1484376	10.342
45) Carbon Tetrachloride	(1)	8.047	117	1310746	10.035
46) Benzene	(2)	8.424	78	1845504	10.290
47) 1,2-Dichloroethane	(2)	8.454	62	1016929	10.228
50) Heptane	(2)	9.081	43	1466679	10.416
51)*1,4-Difluorobenzene	(2)	9.221	114	1262882	10.000
52) Trichloroethene	(2)	9.689	130	626181	8.495
54) 1,2-Dichloropropane	(2)	10.097	63	726608	9.928

* = Compound is an internal standard.

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on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

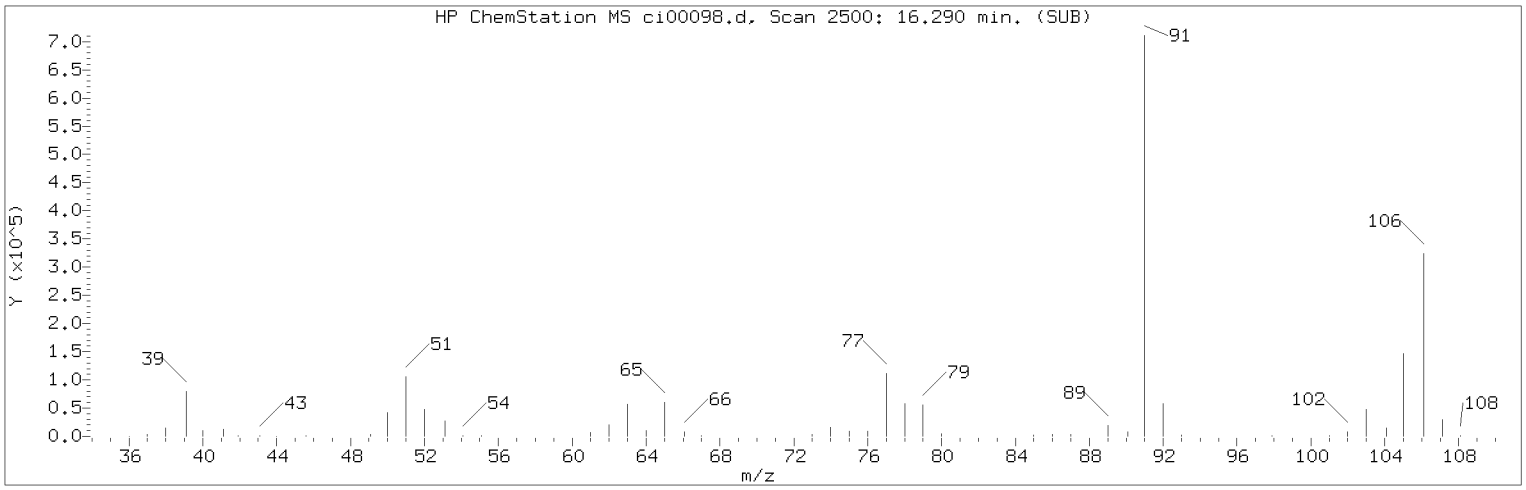
Sample Name: LCSC75 Lab Sample ID: LCSC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
56) 1,4-Dioxane	(2)	10.480	88	314024	12.707
57) Methyl Methacrylate	(2)	10.511	69	481043	11.706
58) Bromodichloromethane	(2)	10.693	83	1456521	10.356
59) cis-1,3-Dichloropropene	(2)	11.666	75	979708	12.050
60) 4-Methyl-2-Pentanone	(2)	12.098	43	1507932	13.118
61) Toluene	(3)	12.378	91	1602531	10.717
64) 1,3-Dichloropropene (total)	(3)		75	1842983	21.781
63) trans-1,3-Dichloropropene	(3)	12.920	75	863275	9.731
66) 1,1,2-Trichloroethane	(3)	13.303	97	599928	9.680
67) Tetrachloroethene	(3)	13.601	166	596641	8.005
68) 2-Hexanone	(3)	14.021	43	1662982	12.570
69) Dibromochloromethane	(3)	14.161	127	818027	9.913
70) 1,2-Dibromoethane	(3)	14.368	107	909134	10.182
71)*Chlorobenzene-d5	(3)	15.554	117	1308224	10.000
72) Chlorobenzene	(3)	15.615	112	1213307	10.197
74) Ethylbenzene	(3)	15.980	91	1747467	11.003
75) m/p-Xylene	(3)	16.290	91	2800723M	22.048
77) Xylene (total)	(3)		91	4269184	32.984
76) o-Xylene	(3)	17.263	91	1468461	10.936
78) Styrene	(3)	17.306	104	1120239	11.055
79) Bromoform	(3)	17.659	173	775763	10.697
82) 1,1,2,2-Tetrachloroethane	(3)	19.076	83	1400764	10.101
86) 4-Ethyltoluene	(3)	19.691	105	1570928	10.011
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1330396	10.049
89) tert-Butylbenzene	(3)	20.865	119	55459	0.497
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1339963	9.550
92) 1,3-Dichlorobenzene	(3)	21.534	146	945073	9.549
93) 1,4-Dichlorobenzene	(3)	21.826	146	937164	9.290
95) Benzyl Chloride	(3)	22.325	91	1466295	9.922
96) 1,2-Dichlorobenzene	(3)	22.988	146	865454	9.413
100) 1,2,4-Trichlorobenzene	(3)	26.012	180	430978	8.303
101) Hexachlorobutadiene	(3)	26.291	225	400161	8.328
102) Naphthalene	(3)	26.310	128	1327504	9.731

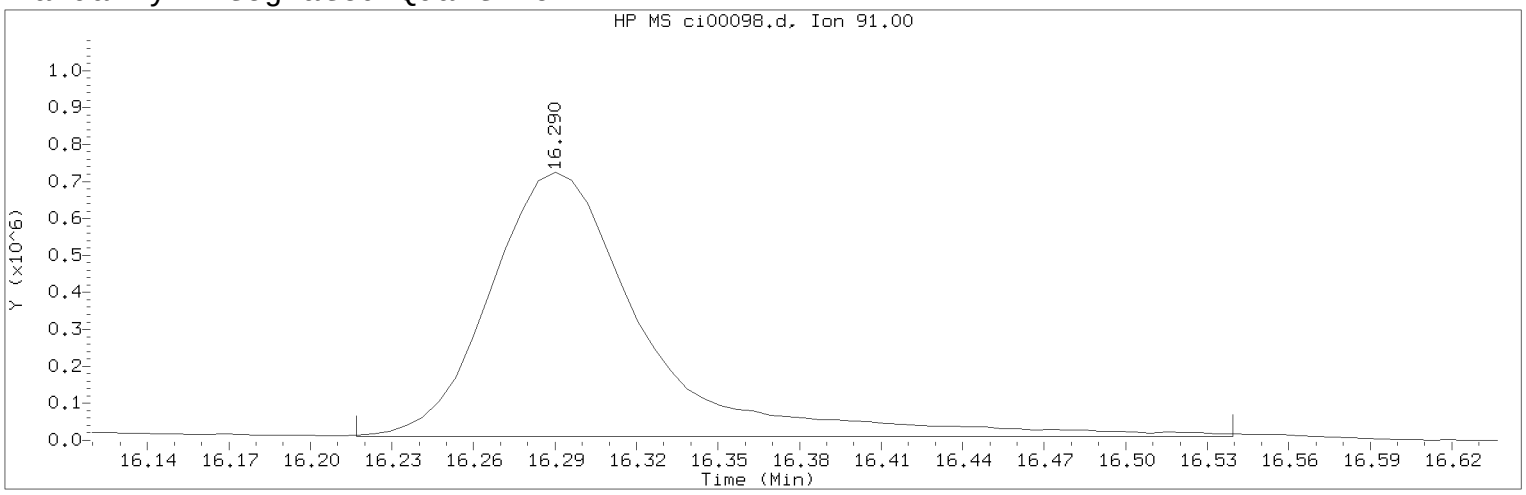
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75 Lab Sample ID: LCSC75

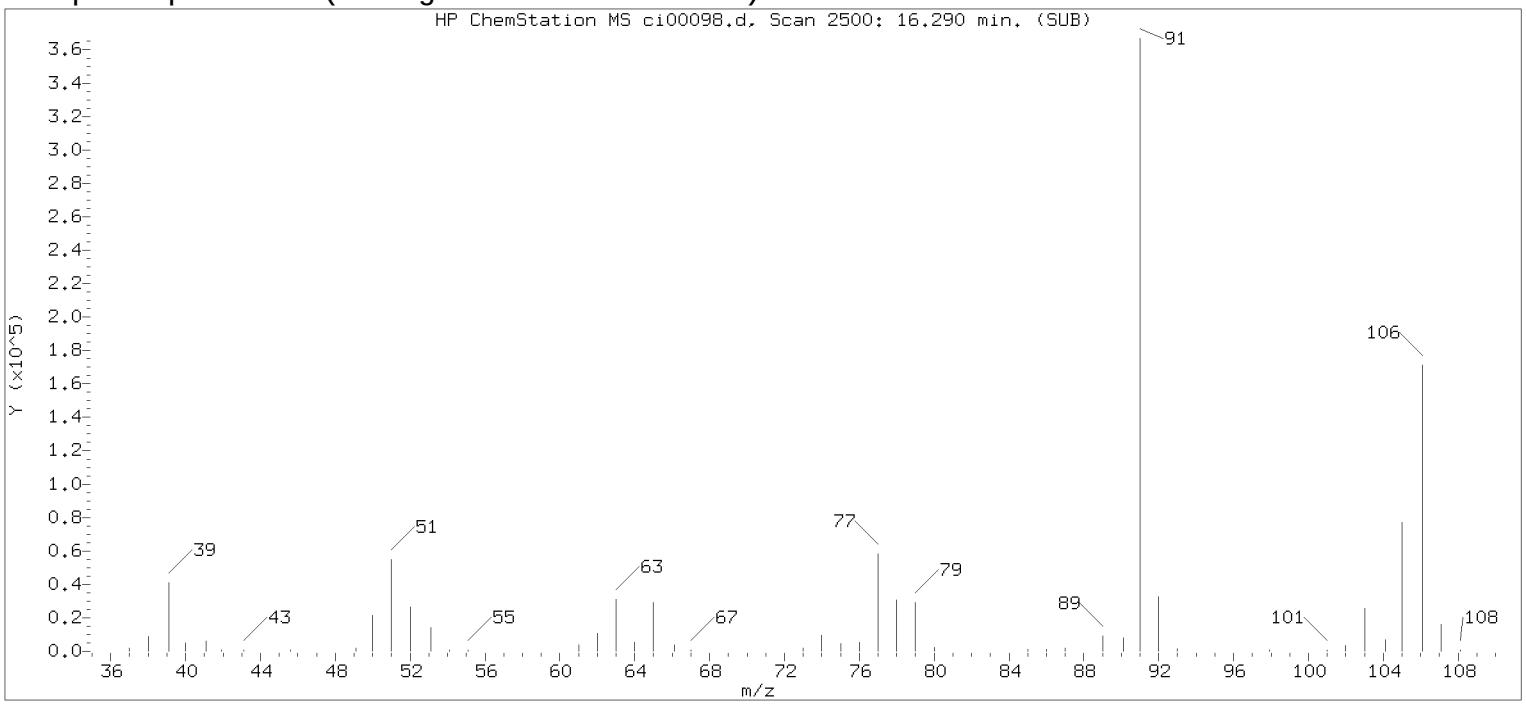
Compound Number : 75
Compound Name : m/p-Xylene
Scan Number : 2500
Retention Time (minutes): 16.290
Quant Ion : 91.00
Area (flag) : 2800723M
Concentration (ppb(v)) : 22.0481
Integration start scan : 2487 Integration stop scan: 2540
Y at integration start : 11188 Y at integration end: 11188

Reason for manual integration: improper integration

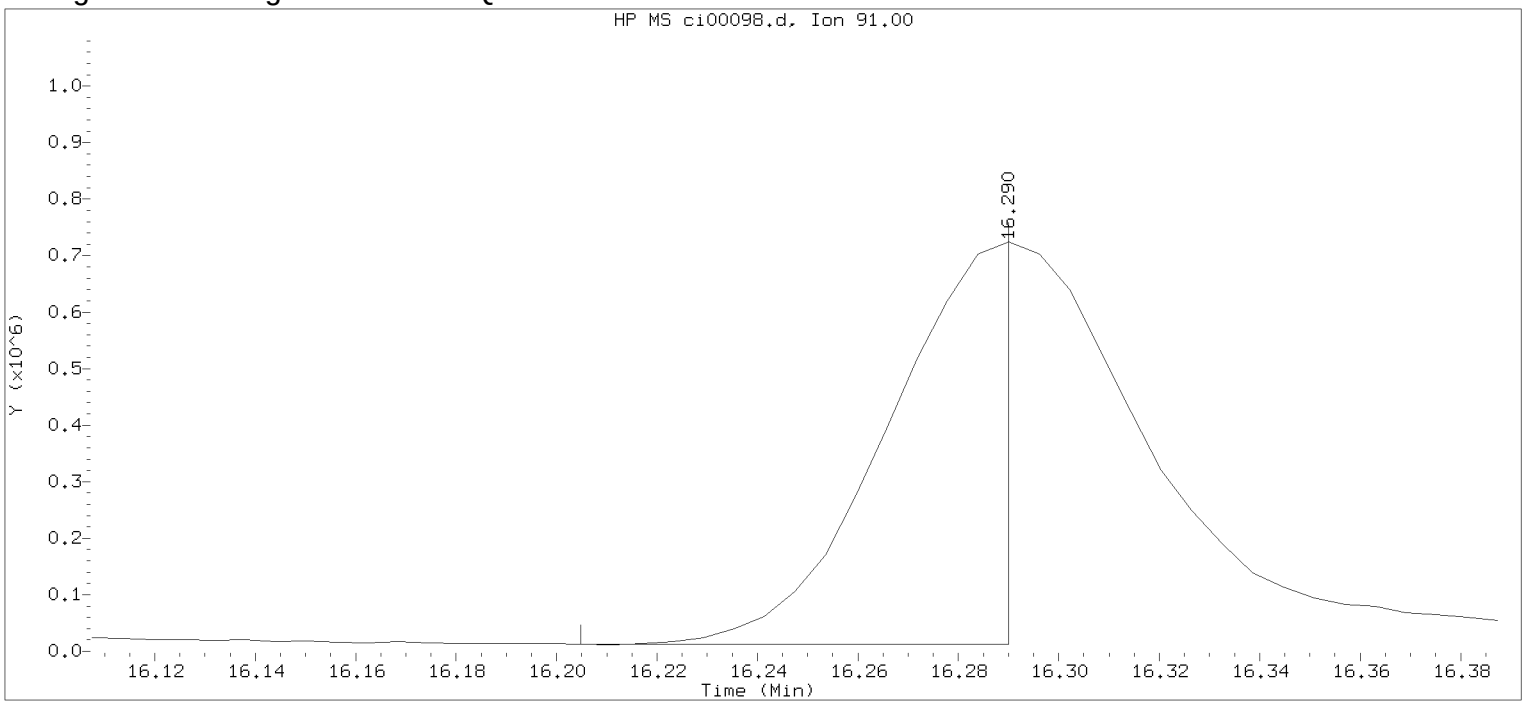
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 04-SEP-2015 12:09
Date, time and analyst ID of latest file update: 04-Sep-2015 12:43 Automation

Sample Name: LCSC75 Lab Sample ID: LCSC75

Compound Number : 75
Compound Name : m/p-Xylene
Scan Number : 2500
Retention Time (minutes): 16.290
Quant Ion : 91.00
Area : 1149481
Concentration (ppb(v)) : 9.0490
Integration start scan : 2485 Integration stop scan: 2499
Y at integration start : 12142 Y at integration end: 12142

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01.
Target 3.5 esignature user SDX07jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

LCSDC75

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: **04-SEP-2015 13:46**
Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSD; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.231(0.000)	1011	130	582185 (-8)	10.00		377640 - 881158
51) 1,4-Difluorobenzene	9.227(-0.006)	1339	114	1521207 (-6)	10.00		971337 - 2266453
71) Chlorobenzene-d5	15.548(0.006)	2378	117	1400700 (-7)	10.00		908333 - 2119441

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.872(0.000)	41	1005798	9.247	9.25			0.5	1
2) Dichlorodifluoromethane	(1)	1.908(0.000)	85	2378299	8.387	8.39			0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.048(0.000)	85	2274420	8.778	8.78			0.2	1
5) Chloromethane	(1)	2.097(0.000)	52	379590	7.705	7.70			0.2	1
6) Vinyl Chloride	(1)	2.224(0.000)	62	1222508	9.159	9.16			0.2	1
7) 1,3-Butadiene	(1)	2.273(0.000)	54	971731	8.664	8.66			0.4	2
8) Bromomethane	(1)	2.590(0.000)	94	805629	8.036	8.04			0.2	1
9) Chloroethane	(1)	2.717(0.000)	64	642735	7.903	7.90			0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.034(0.000)	101	2320865	8.263	8.26			0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)	3.326(-0.000)	45	391470	6.647	6.65			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.581(-0.001)	56	271845	9.634	9.63			1	2
17) 1,1-Dichloroethene	(1)	3.709(0.000)	61	1941850	9.355	9.36			0.2	1
18) Freon 113	(1)	3.751(0.000)	103	1096744	8.216	8.22			0.5	2
19) Acetone	(1)	3.812(-0.001)	43	968194	9.826	9.83			0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	3.983(0.000)	76	3047187	8.393	8.39			0.5	1
22) Isopropanol	(1)	4.092(-0.001)	45	1408275	8.599	8.60			0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.445(0.000)	84	897779	9.426	9.43			0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)	4.938(0.000)	61	1831225	7.961	7.96			0.2	1
29) Methyl t-Butyl Ether	(1)	5.023(-0.002)	73	1497791	9.913	9.91			0.2	1
30) Hexane	(1)	5.522(0.000)	57	1448157	9.018	9.02			0.2	1
31) 1,1-Dichloroethane	(1)	5.710(0.000)	63	1569000	8.072	8.07			0.2	1
32) Vinyl Acetate	(1)	5.911(-0.000)	86	94674	11.468	11.47			1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.805(0.000)	61	1156288	7.715	7.72			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	2987513	15.676	15.68			0.2	1
37) 2-Butanone	(1)	6.909(-0.001)	72	244250	10.057	10.06			0.5	2
38) Ethyl Acetate	(1)	7.097(-0.001)	70	111537	8.827	8.83			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.389(-0.000)	42	732749	10.367	10.37			0.5	1
42) Chloroform	(1)	7.432(-0.000)	83	1480764	8.051	8.05			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.736(0.000)	97	1320533	8.185	8.19			0.2	1
44) Cyclohexane	(1)	7.834(0.000)	56	1608896	9.206	9.21			0.2	1

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: **04-SEP-2015 13:46**
Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSD; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	8.040(0.000)	117	1372511	8.629	8.63			0.2	1
46) Benzene	(2)	8.424(0.000)	78	2052969	9.502	9.50			0.2	1
47) 1,2-Dichloroethane	(2)	8.454(0.000)	62	1114085	9.303	9.30			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.081(0.000)	43	1602503	9.448	9.45			0.5	1
52) Trichloroethene	(2)	9.689(0.000)	130	674143	7.592	7.59			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.097(0.001)	63	802508	9.103	9.10			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.474(0.001)	88	335445	11.269	11.27			0.5	1
57) Methyl Methacrylate	(2)	10.510(0.000)	69	518455	10.474	10.47			0.2	1
58) Bromodichloromethane	(2)	10.693(0.000)	83	1530439	9.034	9.03			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.666(0.000)	75	1108369	11.318	11.32			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.098(0.000)	43	1592795	11.503	11.50			0.5	2
61) Toluene	(3)	12.378(-0.000)	91	1778960	11.112	11.11			0.2	1
62) Octane	(3)			Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)	12.919(-0.000)	75	941587	9.913	9.91			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	2049956	21.231	21.23			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.303(-0.000)	97	655491	9.878	9.88			0.2	1
67) Tetrachloroethene	(3)	13.601(-0.000)	166	642118	8.046	8.05			0.2	1
68) 2-Hexanone	(3)	14.020(-0.000)	43	1763408	12.449	12.45			0.5	2
69) Dibromochloromethane	(3)	14.160(0.000)	127	868127	9.826	9.83			0.2	1
70) 1,2-Dibromoethane	(3)	14.367(-0.000)	107	981721	10.269	10.27			0.2	1
72) Chlorobenzene	(3)	15.614(-0.000)	112	1305764	10.249	10.25			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.973(-0.000)	91	1924890	11.320	11.32			0.2	1
75) m/p-Xylene	(3)	16.290(-0.000)	91	2899969	21.322	21.32			0.2	1
76) o-Xylene	(3)	17.263(-0.000)	91	1579213	10.984	10.98			0.2	1
77) Xylene (total)	(3)		91	4479182	32.307	32.31			0.2	1
78) Styrene	(3)	17.306(-0.000)	104	1199763	11.058	11.06			0.2	1
79) Bromoform	(3)	17.658(-0.000)	173	816598	10.517	10.52			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	19.070(-0.000)	83	1504989	10.136	10.14			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.5	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.696(-0.000)	105	1730247	10.298	10.30			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.885(-0.000)	105	1368116	9.651	9.65			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.864(-0.000)	105	1448223	9.640	9.64			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.534(-0.000)	146	1031771	9.737	9.74			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.826(-0.000)	146	1021926	9.462	9.46			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.325(-0.000)	91	1583333	10.007	10.01			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.988(-0.000)	146	931050	9.458	9.46			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	26.011(-0.000)	180	439723	7.913	7.91			0.5	2

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: **04-SEP-2015 13:46**
Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSD; Instrument ID: **HP09464.i** Batch: **C1524630AA**
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep03.b/ci00096.d**

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 14:32
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep03.b/ci00085.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

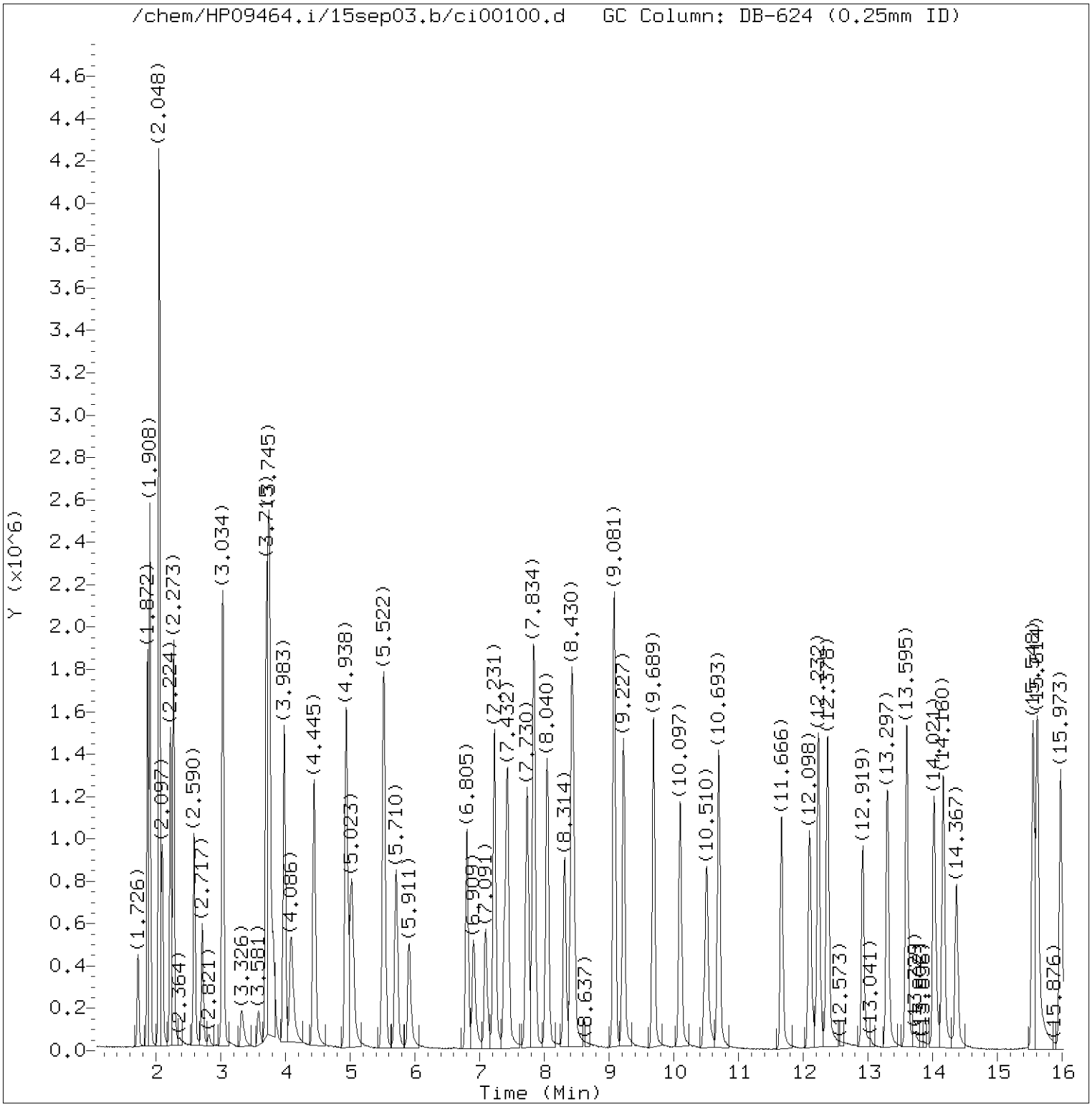
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.291(-0.000)	225	412184	8.012	8.01			0.4	2
102) Naphthalene	(3)	26.309(-0.000)	128	1380288	9.450	9.45			0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

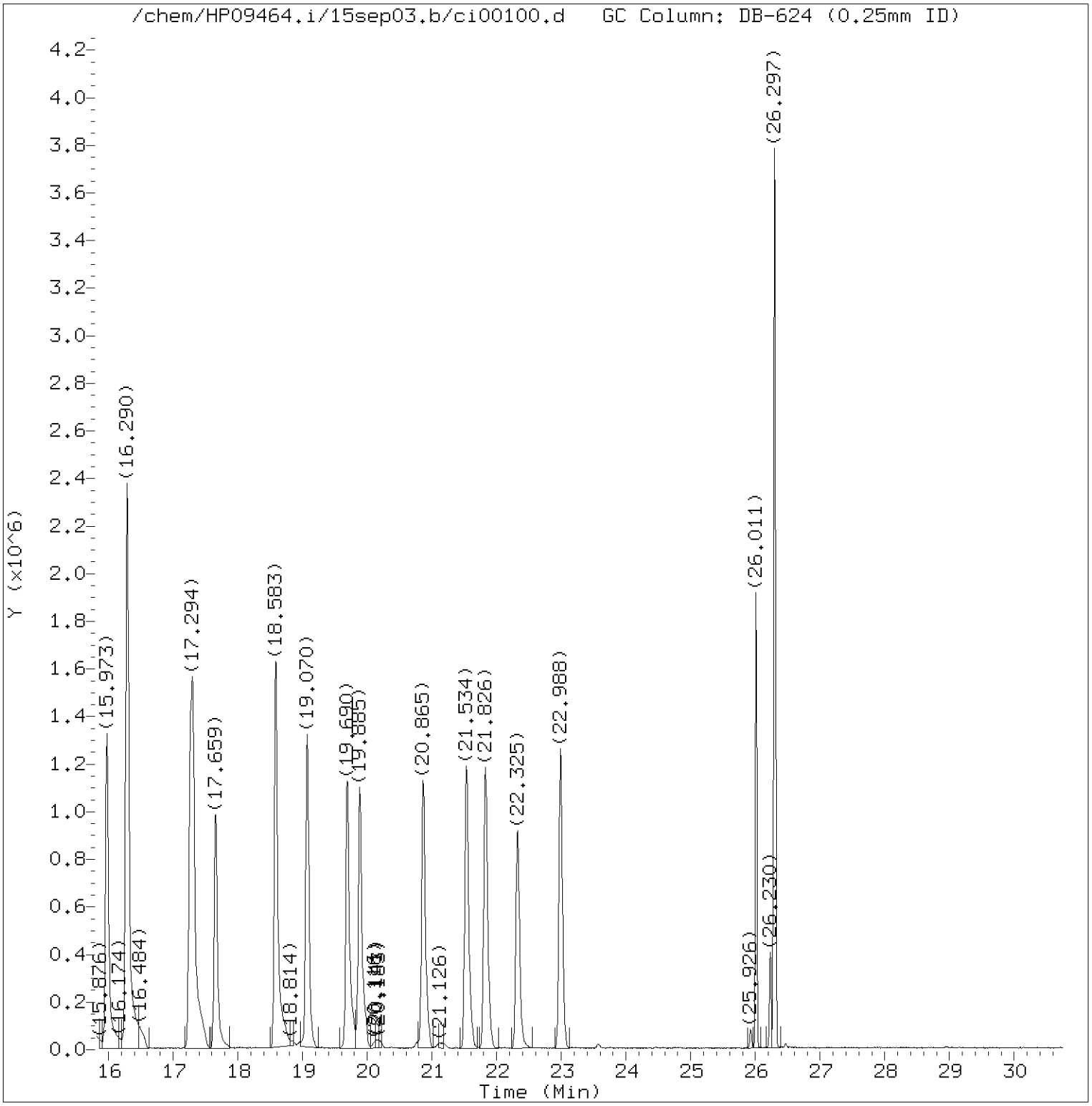
Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 13:46 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75 Lab Sample ID: LCSDC75

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 13:46 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75 Lab Sample ID: LCSDC75

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 13:46 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75 Lab Sample ID: LCSDC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	1005798	9.247
2) Dichlorodifluoromethane	(1)	1.908	85	2378299	8.387
4) Freon 114	(1)	2.048	85	2274420	8.778
5) Chloromethane	(1)	2.097	52	379590	7.705
6) Vinyl Chloride	(1)	2.224	62	1222508	9.159
7) 1,3-Butadiene	(1)	2.273	54	971731	8.664
8) Bromomethane	(1)	2.590	94	805629	8.036
9) Chloroethane	(1)	2.717	64	642735	7.903
12) Trichlorofluoromethane	(1)	3.034	101	2320865	8.263
14) Ethanol	(1)	3.326	45	391470	6.647
16) Acrolein	(1)	3.581	56	271845	9.634
17) 1,1-Dichloroethene	(1)	3.709	61	1941850	9.355
18) Freon 113	(1)	3.751	103	1096744	8.216
19) Acetone	(1)	3.812	43	968194	9.826
21) Carbon Disulfide	(1)	3.983	76	3047187	8.393
22) Isopropanol	(1)	4.092	45	1408275	8.599
25) Methylene Chloride	(1)	4.445	84	897779	9.426
28) trans-1,2-Dichloroethene	(1)	4.938	61	1831225	7.961
29) Methyl t-Butyl Ether	(1)	5.023	73	1497791	9.913
30) Hexane	(1)	5.522	57	1448157	9.018
31) 1,1-Dichloroethane	(1)	5.710	63	1569000	8.072
32) Vinyl Acetate	(1)	5.911	86	94674	11.468
36) 1,2-Dichloroethene (total)	(1)		61	2987513	15.676
35) cis-1,2-Dichloroethene	(1)	6.805	61	1156288	7.715
37) 2-Butanone	(1)	6.909	72	244250	10.057
38) Ethyl Acetate	(1)	7.097	70	111537	8.827
40)*Bromochloromethane	(1)	7.231	130	582185	10.000
41) Tetrahydrofuran	(1)	7.389	42	732749	10.367
42) Chloroform	(1)	7.432	83	1480764	8.051
43) 1,1,1-Trichloroethane	(1)	7.736	97	1320533	8.185
44) Cyclohexane	(1)	7.834	56	1608896	9.206
45) Carbon Tetrachloride	(1)	8.040	117	1372511	8.629
46) Benzene	(2)	8.424	78	2052969	9.502
47) 1,2-Dichloroethane	(2)	8.454	62	1114085	9.303
50) Heptane	(2)	9.081	43	1602503	9.448
51)*1,4-Difluorobenzene	(2)	9.227	114	1521207	10.000
52) Trichloroethene	(2)	9.689	130	674143	7.592
54) 1,2-Dichloropropane	(2)	10.097	63	802508	9.103

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d Instrument ID: HP09464.i
Injection date and time: 04-SEP-2015 13:46 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 14:32
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75 Lab Sample ID: LCSDC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
56) 1,4-Dioxane	(2)	10.474	88	335445	11.269
57) Methyl Methacrylate	(2)	10.510	69	518455	10.474
58) Bromodichloromethane	(2)	10.693	83	1530439	9.034
59) cis-1,3-Dichloropropene	(2)	11.666	75	1108369	11.318
60) 4-Methyl-2-Pentanone	(2)	12.098	43	1592795	11.503
61) Toluene	(3)	12.378	91	1778960	11.112
64) 1,3-Dichloropropene (total)	(3)		75	2049956	21.231
63) trans-1,3-Dichloropropene	(3)	12.919	75	941587	9.913
66) 1,1,2-Trichloroethane	(3)	13.303	97	655491	9.878
67) Tetrachloroethene	(3)	13.601	166	642118	8.046
68) 2-Hexanone	(3)	14.021	43	1763408	12.449
69) Dibromochloromethane	(3)	14.160	127	868127	9.826
70) 1,2-Dibromoethane	(3)	14.367	107	981721	10.269
71)*Chlorobenzene-d5	(3)	15.548	117	1400700	10.000
72) Chlorobenzene	(3)	15.614	112	1305764	10.249
74) Ethylbenzene	(3)	15.973	91	1924890	11.320
75) m/p-Xylene	(3)	16.290	91	2899969	21.322
77) Xylene (total)	(3)		91	4479182	32.307
76) o-Xylene	(3)	17.263	91	1579213	10.984
78) Styrene	(3)	17.306	104	1199763	11.058
79) Bromoform	(3)	17.659	173	816598	10.517
82) 1,1,2,2-Tetrachloroethane	(3)	19.070	83	1504989	10.136
86) 4-Ethyltoluene	(3)	19.697	105	1730247	10.298
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1368116	9.651
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1448223	9.640
92) 1,3-Dichlorobenzene	(3)	21.534	146	1031771	9.737
93) 1,4-Dichlorobenzene	(3)	21.826	146	1021926	9.462
95) Benzyl Chloride	(3)	22.325	91	1583333	10.007
96) 1,2-Dichlorobenzene	(3)	22.988	146	931050	9.458
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	439723	7.913
101) Hexachlorobutadiene	(3)	26.291	225	412184	8.012
102) Naphthalene	(3)	26.309	128	1380288	9.450

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 16:01.
Target 3.5 esignature user ID: jeb07445

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP09464 **HP #03**

Data Directory Path is - C:\msdchem\1\data\15sep09\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	CI00160.D	50NGBFB	09/09/2015	12:51		
jbs01304	CI00161.D	VSTD010	09/09/2015	13:23		
jeb07445	CI00162.D	VSTD010	09/09/2015	14:29		
jeb07445	CI00163.D	VBLKC77	09/09/2015	15:31	C1525230AA	
jeb07445	CI00164.D	VSTD010	09/09/2015	16:15		
jeb07445	CI00165.D	VBLKC77	09/09/2015	17:05	C1524630AC	
jeb07445	CI00166.D	VBLKC77	09/09/2015	17:51	C1524630AC	
jeb07445	CI00167.D	VBLKC77	09/09/2015	18:43	C1524630AC	
jeb07445	CI00168.D	cc801	09/09/2015	19:36	C1524630AC	
jeb07445	CI00169.D	cc1113	09/09/2015	20:30	C1524630AC	
jeb07445	CI00170.D	cc1136	09/09/2015	21:17	C1524630AC	
jeb07445	CI00171.D	mdlv0.2	09/09/2015	22:23	C1524630AC	
jeb07445	CI00172.D	cc1113	09/09/2015	23:07	C1524630AC	
jeb07445	CI00173.D	cc1032	09/09/2015	23:53	C1524630AC	
jeb07445	CI00174.D	cc507	09/10/2015	00:38	C1524630AC	
jeb07445	CI00175.D	cc985	09/10/2015	01:23	C1524630AC	
jeb07445	CI00176.D	cc1058	09/10/2015	02:08	C1524630AC	
jeb07445	CI00177.D	cc1144	09/10/2015	02:54	C1524630AC	
jeb07445	CI00178.D	cc1167	09/10/2015	03:38	C1524630AC	
jeb07445	CI00179.D	cc1165	09/10/2015	04:25	C1524630AC	
jeb07445	CI00180.D	cc1019	09/10/2015	05:09	C1524630AC	
jeb07445	CI00181.D	cc1011	09/10/2015	05:55	C1524630AC	
jeb07445	CI00182.D	cc912	09/10/2015	06:39	C1524630AC	
jeb07445	CI00183.D	fc1	09/10/2015	09:26	C1524630AC	
jeb07445	CI00184.D	fc2	09/10/2015	10:10	C1524630AC	
jeb07445	CI00185.D	fc3	09/10/2015	10:54	C1524630AC	
jeb07445	CI00186.D	fc4	09/10/2015	11:42	C1524630AC	

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
115-07-1	Propene	0.50	U
75-71-8	Dichlorodifluoromethane	0.20	U
75-45-6	Chlorodifluoromethane	0.20	U
76-14-2	Freon 114	0.20	U
74-87-3	Chloromethane	0.20	U
75-01-4	Vinyl Chloride	0.20	U
106-99-0	1,3-Butadiene	0.40	U
74-83-9	Bromomethane	0.20	U
75-00-3	Chloroethane	0.20	U
593-60-2	Bromoethene	0.40	U
75-43-4	Dichlorofluoromethane	0.20	U
75-69-4	Trichlorofluoromethane	0.20	U
109-66-0	Pentane	0.50	U
64-17-5	Ethanol	0.50	U
107-02-8	Acrolein	1.0	U
75-35-4	1,1-Dichloroethene	0.20	U
76-13-1	Freon 113	0.50	U
67-64-1	Acetone	0.50	U
74-88-4	Methyl Iodide	0.20	U
75-15-0	Carbon Disulfide	0.50	U
67-63-0	Isopropanol	0.50	U
75-05-8	Acetonitrile	0.50	U
107-05-1	3-Chloropropene	0.20	U
75-09-2	Methylene Chloride	0.20	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-65-0	tert-Butyl Alcohol	0.50	U
107-13-1	Acrylonitrile	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.20	U
1634-04-4	Methyl t-Butyl Ether	0.20	U
110-54-3	Hexane	0.20	U
75-34-3	1,1-Dichloroethane	0.20	U
108-05-4	Vinyl Acetate	1.0	U
108-20-3	Di-Isopropyl Ether	0.20	U
637-92-3	Ethyl Tert-Butyl Ether	0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	U
540-59-0	1,2-Dichloroethene (total)	0.20	U
78-93-3	2-Butanone	0.50	U
141-78-6	Ethyl Acetate	0.50	U
96-33-3	Methyl Acrylate	0.20	U
109-99-9	Tetrahydrofuran	0.50	U
67-66-3	Chloroform	0.20	U
71-55-6	1,1,1-Trichloroethane	0.20	U
110-82-7	Cyclohexane	0.20	U
56-23-5	Carbon Tetrachloride	0.20	U
71-43-2	Benzene	0.20	U
107-06-2	1,2-Dichloroethane	0.20	U
540-84-1	Isooctane	0.20	U
994-05-8	Tert-Amyl Methyl Ether	0.20	U
142-82-5	Heptane	0.50	U

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SAMPLE DATA SHEET

SDG No.:

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Canister ID:	N/A	Lab File ID:	ci00167.d
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Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
79-01-6	Trichloroethene	0.20	U
140-88-5	Ethyl Acrylate	0.20	U
78-87-5	1,2-Dichloropropane	0.20	U
74-95-3	Dibromomethane	0.20	U
123-91-1	1,4-Dioxane	0.50	U
80-62-6	Methyl Methacrylate	0.20	U
75-27-4	Bromodichloromethane	0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	U
108-10-1	4-Methyl-2-Pentanone	0.50	U
108-88-3	Toluene	0.20	U
111-65-9	Octane	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.20	U
542-75-6	1,3-Dichloropropene (total)	0.20	U
97-63-2	Ethyl Methacrylate	0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	U
127-18-4	Tetrachloroethene	0.20	U
591-78-6	2-Hexanone	0.50	U
124-48-1	Dibromochloromethane	0.20	U
106-93-4	1,2-Dibromoethane	0.20	U
108-90-7	Chlorobenzene	0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U
100-41-4	Ethylbenzene	0.20	U
179601-23-1	m/p-Xylene	0.20	U
95-47-6	o-Xylene	0.20	U

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
1330-20-7	Xylene (total)	0.20	U
100-42-5	Styrene	0.20	U
75-25-2	Bromoform	0.20	U
98-82-8	Cumene	0.20	U
108-86-1	Bromobenzene	0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U
96-18-4	1,2,3-Trichloropropane	0.20	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.20	U
622-96-8	4-Ethyltoluene	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
98-83-9	Alpha Methyl Styrene	0.20	U
98-06-6	tert-Butylbenzene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
135-98-8	sec-Butylbenzene	0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	U
99-87-6	p-Isopropyltoluene	0.20	U
100-44-7	Benzyl Chloride	0.50	U
95-50-1	1,2-Dichlorobenzene	0.20	U
104-51-8	n-Butylbenzene	0.20	U
67-72-1	Hexachloroethane	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v) Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
87-68-3	Hexachlorobutadiene	0.40	U
91-20-3	Naphthalene	0.40	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 04
VOLATILE ORGANICS IN AIR
METHOD BLANK SUMMARY

SDG No.:

Lab Sample ID: VBLKC77

Lab File ID: ci00167.d

Instrument ID: 09464

Analyzed Date: 09/09/2015

Analyzed Time: 18:43

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS AND LCSD:

LAB SAMPLE ID	LAB FILE ID	CANISTER ID	DATE ANALYZED	TIME ANALYZED
cc801	ci00168.d	801	09/09/2015	19:36
cc1136	ci00170.d	1136	09/09/2015	21:17
cc1032	ci00173.d	1032	09/09/2015	23:53
cc507	ci00174.d	507	09/10/2015	00:38
cc985	ci00175.d	985	09/10/2015	01:23
cc1058	ci00176.d	1058	09/10/2015	02:08
cc1144	ci00177.d	1144	09/10/2015	02:54
cc1167	ci00178.d	1167	09/10/2015	03:38
cc1165	ci00179.d	1165	09/10/2015	04:25
cc1019	ci00180.d	1019	09/10/2015	05:09
cc1011	ci00181.d	1011	09/10/2015	05:55
cc912	ci00182.d	912	09/10/2015	06:39

COMMENTS:

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FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: ci00160.d

BFB Injection Date: 09/09/2015

Instrument ID: 09464

BFB Injection Time: 12:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	19.8
75	30.0% - 66.0% of mass 95	52.2
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	7.3
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	59.4
175	4.0% - 9.0% of mass 174	4.3 (7.3)
176	93.0% - 101.0% of mass 174	56.5 (95.1)
177	5.0% - 9.0% of mass 176	3.8 (6.7)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	ci00164.d	09/09/2015	16:15
VBLKC77	ci00167.d	09/09/2015	18:43
cc801	ci00168.d	09/09/2015	19:36
cc1136	ci00170.d	09/09/2015	21:17
cc1032	ci00173.d	09/09/2015	23:53
cc507	ci00174.d	09/10/2015	00:38
cc985	ci00175.d	09/10/2015	01:23
cc1058	ci00176.d	09/10/2015	02:08
cc1144	ci00177.d	09/10/2015	02:54
cc1167	ci00178.d	09/10/2015	03:38
cc1165	ci00179.d	09/10/2015	04:25
cc1019	ci00180.d	09/10/2015	05:09
cc1011	ci00181.d	09/10/2015	05:55
cc912	ci00182.d	09/10/2015	06:39

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	1.868	1.612	8.799	10.2	-14
Dichlorodifluoromethane	4.871	4.087	8.476	10.1	-16
Chlorodifluoromethane	3.881	3.034	8.365	10.7	-22
Freon 114	4.450	3.852	8.914	10.3	-13
Chloromethane	0.846	0.728	8.856	10.3	-14
Vinyl Chloride	2.293	2.107	9.283	10.1	-8
1,3-Butadiene	1.927	1.664	8.812	10.2	-14
Bromomethane	1.722	1.519	8.643	9.8	-12
Chloroethane	1.397	1.168	8.108	9.7	-16
Bromoethene	1.441	1.385	10.185	10.6	-4
Dichlorofluoromethane	4.960	3.948	8.358	10.5	-20
Trichlorofluoromethane	4.824	3.902	8.169	10.1	-19
Pentane	4.557	3.508	8.081	10.5	-23
Ethanol	1.012	0.907	5.201	5.8	-10
Freon123a	4.065	3.206	8.675	11	-21
Acrolein	0.485	0.464	7.175	7.5	-4
1,1-Dichloroethene	3.565	3.146	8.824	10	-12
Freon 113	2.293	1.915	8.100	9.7	-16
Acetone	1.693	1.486	9.397	10.7	-12
Methyl Iodide	2.945	2.676	9.541	10.5	-9
Carbon Disulfide	6.236	5.422	8.695	10	-13
Isopropanol	2.813	2.380	8.122	9.6	-15
Acetonitrile	0.512	0.399	7.707	9.9	-22
3-Chloropropene	0.950	0.800	9.258	11	-16
Methylene Chloride	1.636	1.433	9.633	11	-12
tert-Butyl Alcohol	2.757	2.531	10.096	11	-8
Acrylonitrile	1.265	1.083	8.474	9.9	-14
trans-1,2-Dichloroethene	3.951	3.012	7.623	10	-24
Methyl t-Butyl Ether	2.595	2.706	10.634	10.2	4
Hexane	2.758	2.501	9.247	10.2	-9
1,1-Dichloroethane	3.339	2.872	8.602	10	-14
Vinyl Acetate	0.142	0.173	9.255	7.6	22
Di-Isopropyl Ether	3.102	3.327	11.153	10.4	7
Ethyl Tert-Butyl Ether	2.253	2.533	11.358	10.1	12
cis-1,2-Dichloroethene	2.574	2.138	8.721	10.5	-17
2-Butanone	0.417	0.436	10.873	10.4	5
Ethyl Acetate	0.217	0.234	11.851	11	8
Methyl Acrylate	1.642	1.669	10.569	10.4	2
Tetrahydrofuran	1.214	1.215	10.009	10	0

* Maximum %DRIFT = 30%.
\# Average RRF for all compounds must be greater than 0.010.

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	3.159	2.714	8.678	10.1	-14
1,1,1-Trichloroethane	2.771	2.376	8.830	10.3	-14
Cyclohexane	3.002	2.699	9.259	10.3	-10
Carbon Tetrachloride	2.732	2.361	8.989	10.4	-14
Benzene	1.420	1.185	8.848	10.6	-17
1,2-Dichloroethane	0.787	0.589	7.782	10.4	-25
Isooctane	2.497	2.155	9.064	10.5	-14
Tert-Amyl Methyl Ether	0.657	0.649	10.560	10.7	-1
Heptane	1.115	0.883	8.317	10.5	-21
Trichloroethene	0.584	0.442	7.804	10.3	-24
Ethyl Acrylate	0.675	0.608	9.724	10.8	-10
1,2-Dichloropropane	0.580	0.464	8.412	10.5	-20
Dibromomethane	0.373	0.295	8.323	10.5	-21
1,4-Dioxane	0.196	0.194	10.232	10.3	-1
Methyl Methacrylate	0.325	0.292	9.058	10.1	-10
Bromodichloromethane	1.114	0.887	8.208	10.3	-20
cis-1,3-Dichloropropene	0.644	0.573	8.455	9.5	-11
4-Methyl-2-Pentanone	0.910	0.837	9.379	10.2	-8
Toluene	1.143	1.040	9.650	10.6	-9
Octane	1.262	1.144	9.337	10.3	-9
trans-1,3-Dichloropropene	0.678	0.580	8.643	10.1	-14
Ethyl Methacrylate	0.540	0.512	9.571	10.1	-5
1,1,2-Trichloroethane	0.474	0.398	8.904	10.6	-16
Tetrachloroethene	0.570	0.482	9.049	10.7	-15
2-Hexanone	1.011	0.890	9.590	10.9	-12
Dibromochloromethane	0.631	0.534	8.291	9.8	-15
1,2-Dibromoethane	0.683	0.572	8.379	10	-16
Chlorobenzene	0.910	0.771	8.991	10.6	-15
1,1,1,2-Tetrachloroethane	0.432	0.375	9.194	10.6	-13
Ethylbenzene	1.214	1.133	9.891	10.6	-7
m/p-Xylene	0.971	0.866	8.742	9.8	-11
o-Xylene	1.026	0.908	9.466	10.7	-12
Styrene	0.775	0.704	9.450	10.4	-9
Bromoform	0.554	0.493	8.902	10	-11
Cumene	1.101	1.032	9.744	10.4	-6
Bromobenzene	0.408	0.353	9.171	10.6	-13
1,1,2,2-Tetrachloroethane	1.060	0.859	8.673	10.7	-19
1,2,3-Trichloropropane	0.240	0.205	8.712	10.2	-15
n-Propylbenzene	0.318	0.283	8.892	10	-11

* Maximum %DRIFT = 30%.
\# Average RRF for all compounds must be greater than 0.010.

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.333	0.296	9.136	10.3	-11
4-Ethyltoluene	1.199	1.060	8.924	10.1	-12
1,3,5-Trimethylbenzene	1.012	0.845	8.603	10.3	-16
Alpha Methyl Styrene	0.488	0.417	8.460	9.9	-15
tert-Butylbenzene	0.853	0.731	8.733	10.2	-14
1,2,4-Trimethylbenzene	1.072	0.872	8.293	10.2	-19
sec-Butylbenzene	1.421	1.226	8.711	10.1	-14
1,3-Dichlorobenzene	0.757	0.617	8.560	10.5	-18
1,4-Dichlorobenzene	0.771	0.628	8.313	10.2	-18
p-Isopropyltoluene	1.125	0.943	8.464	10.1	-16
Benzyl Chloride	1.130	0.964	7.255	8.5	-15
1,2-Dichlorobenzene	0.703	0.563	8.098	10.1	-20
n-Butylbenzene	1.327	1.068	8.208	10.2	-20
Hexachloroethane	0.424	0.314	8.076	10.9	-26
1,2-Dibromo-3-chloropropane	0.342	0.289	8.116	9.6	-15
1,2,4-Trichlorobenzene	0.397	0.279	6.751	9.6	-30
Hexachlorobutadiene	0.367	0.267	7.195	9.9	-27
Naphthalene	1.043	0.806	8.043	10.4	-23

* Maximum %DRIFT = 30%.
# Average RRF for all compounds must be greater than 0.010.

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FORM 08
VOLATILE ORGANICS IN AIR
INSTRUMENT STANDARD AREA AND RETENTION TIME SUMMARY

SDG No.:

Lab Sample ID: VSTD010

Lab File ID: ci00164.d

Instrument ID: 09464

Analyzed Date: 09/09/2015

Analyzed Time: 16:15

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	673521	7.23	2151177	9.22	2071426	15.55
UPPER LIMIT	942929	7.56	3011648	9.55	2899996	15.88
LOWER LIMIT	404113	6.90	1290706	8.89	1242856	15.22
LAB SAMPLE ID						
VBLKC77	545444	7.24	1910720	9.23	1829924	15.55
cc801	535155	7.23	1765125	9.23	1760147	15.55
cc1136	470360	7.24	1653750	9.23	1718759	15.55
cc1032	459834	7.24	1415025	9.23	1491849	15.55
cc507	466596	7.24	1363779	9.23	1395545	15.55
cc985	488666	7.23	1746631	9.23	1766592	15.55
cc1058	461351	7.24	1266958 *	9.23	1295721	15.56
cc1144	434598	7.24	1145440 *	9.24	1153446 *	15.55
cc1167	464664	7.24	1587271	9.23	1664307	15.55
cc1165	487511	7.24	1465528	9.23	1374760	15.55
cc1019	441214	7.24	1265785 *	9.23	1330549	15.55
cc1011	445622	7.24	1261443 *	9.24	1302809	15.55
cc912	476197	7.24	1375722	9.23	1374600	15.55

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.

Data File: /chem/HP09464.i/15sep09.b/ci00160.d

Page 1

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB

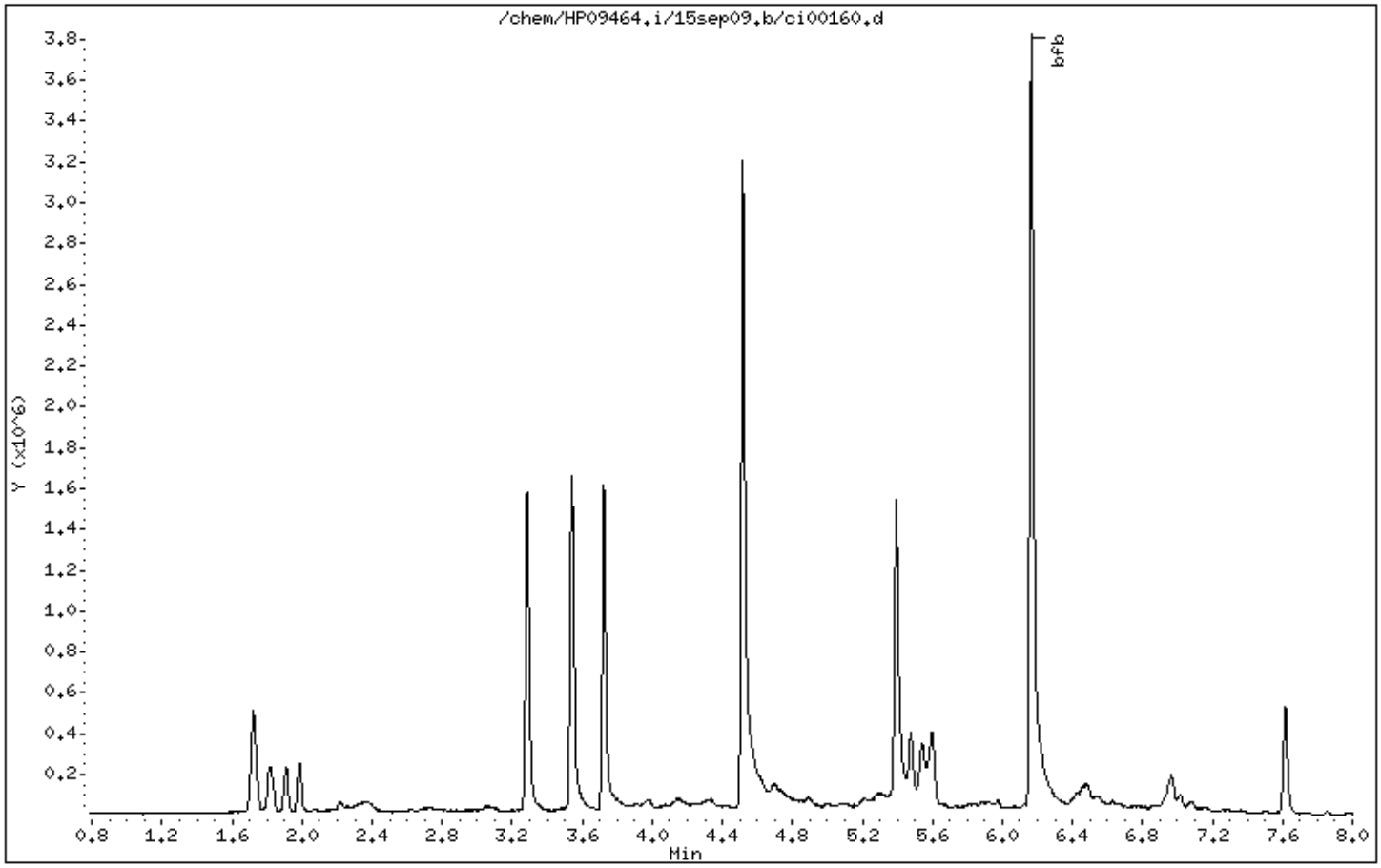
Instrument: HP09464.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP09464.i/15sep09.b/ci00160.d

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB

Instrument: HP09464.i

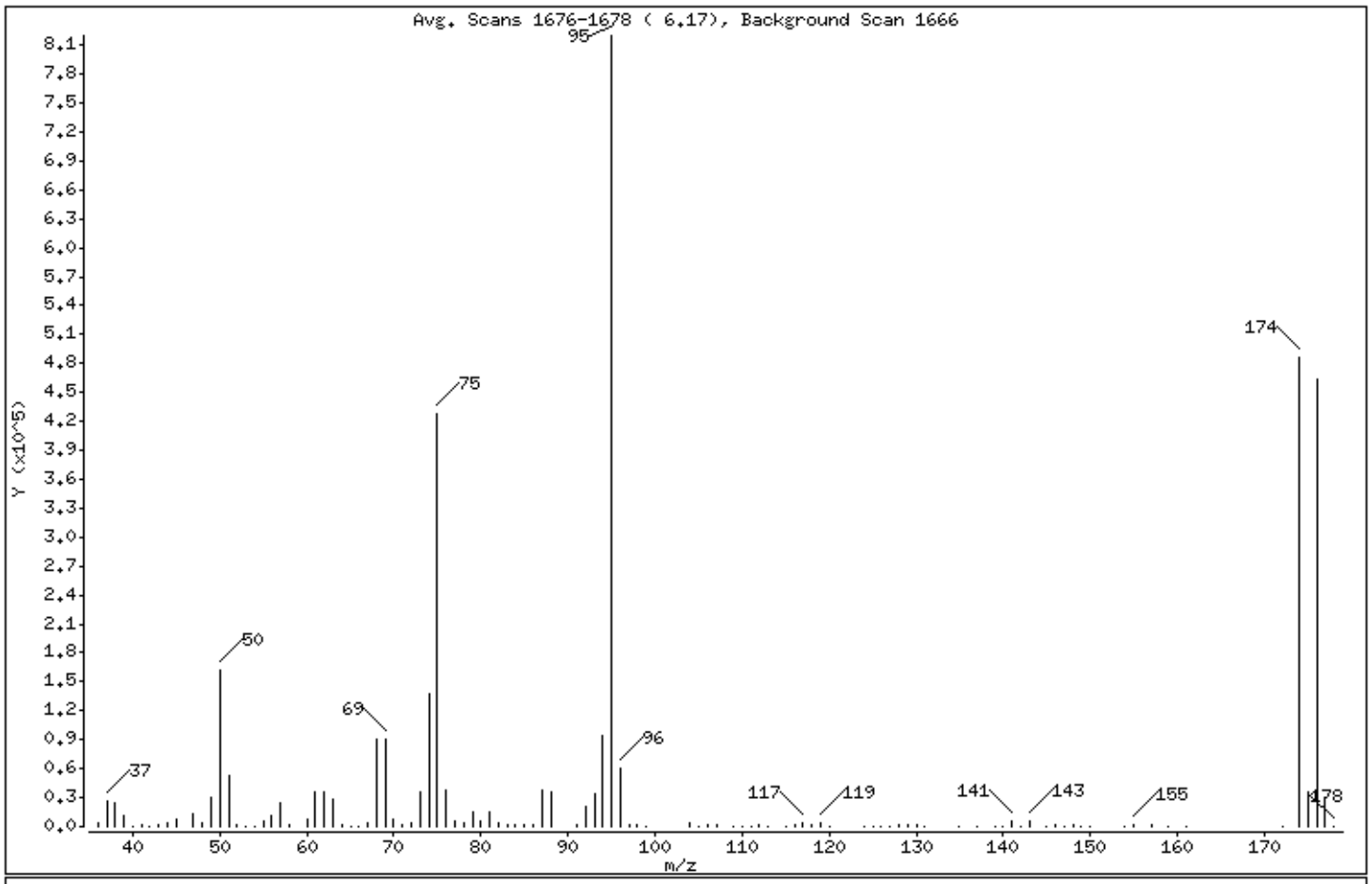
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.77
75	30.00 - 66.00% of mass 95	52.18
96	5.00 - 9.00% of mass 95	7.34
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	59.37
175	4.00 - 9.00% of mass 174	4.32 (7.27)
176	93.00 - 101.00% of mass 174	56.46 (95.10)
177	5.00 - 9.00% of mass 176	3.77 (6.68)

Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB Instrument: HP09464.i

Sample Info: 50NGBFB;;;BFB;0;;;

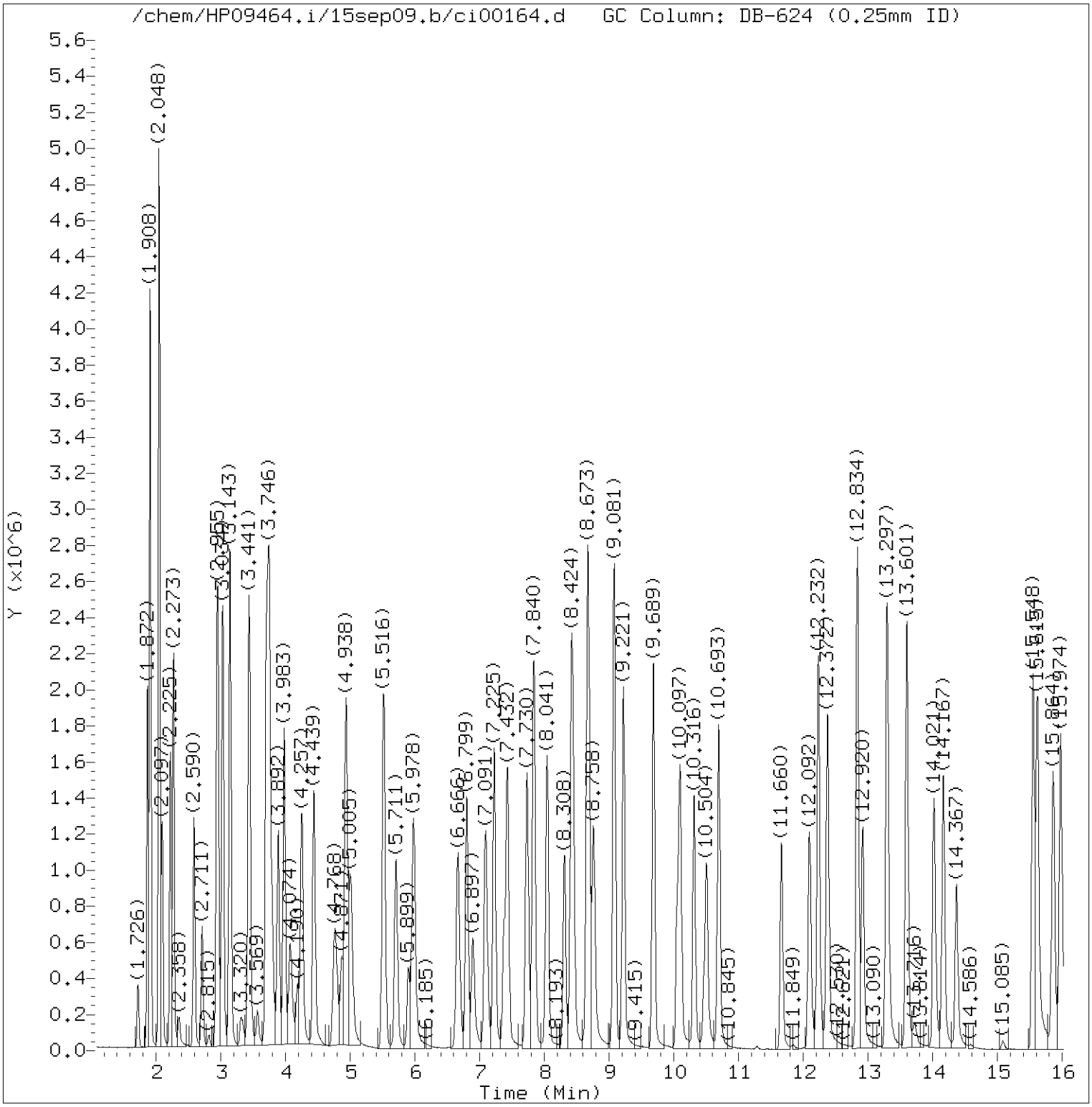
Operator: jbs01304

Column phase: DB-624 Column diameter: 0.25

Data File: ci00160.d
Spectrum: Avg. Scans 1676-1678 (6.17), Background Scan 1666
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4311	65.00	508	94.00	94672	130.00	2311
37.00	26904	66.00	678	95.00	819840	131.00	918
38.00	25440	67.00	3512	96.00	60144	135.00	931
39.00	11337	68.00	89792	97.00	2722	137.00	918
40.00	76	69.00	90568	98.00	1095	139.00	573
41.00	1226	70.00	8119	99.00	175	140.00	683
42.00	487	71.00	2426	104.00	2844	141.00	5155
43.00	1547	72.00	4421	105.00	655	142.00	607
44.00	3191	73.00	35808	106.00	2743	143.00	5063
45.00	7489	74.00	137280	107.00	1202	145.00	189
47.00	12444	75.00	427776	109.00	406	146.00	1002
48.00	4422	76.00	38600	110.00	770	147.00	207
49.00	30432	77.00	5487	111.00	660	148.00	1548
50.00	162048	78.00	4504	112.00	964	149.00	182
51.00	52808	79.00	15218	113.00	676	150.00	580
52.00	2683	80.00	5321	115.00	794	154.00	167
53.00	464	81.00	14520	116.00	2314	155.00	1512
54.00	10	82.00	4423	117.00	4700	157.00	1183
55.00	5003	83.00	2305	118.00	2236	159.00	626
56.00	11476	84.00	1190	119.00	3407	161.00	687
57.00	24840	85.00	1939	120.00	182	172.00	855
58.00	1178	86.00	1081	124.00	231	174.00	486720
60.00	7404	87.00	37224	125.00	444	175.00	35384
61.00	35872	88.00	35872	126.00	192	176.00	462848
62.00	36672	91.00	2428	127.00	459	177.00	30920
63.00	27568	92.00	21320	128.00	2512	178.00	770
64.00	2655	93.00	34816	129.00	1253		

Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

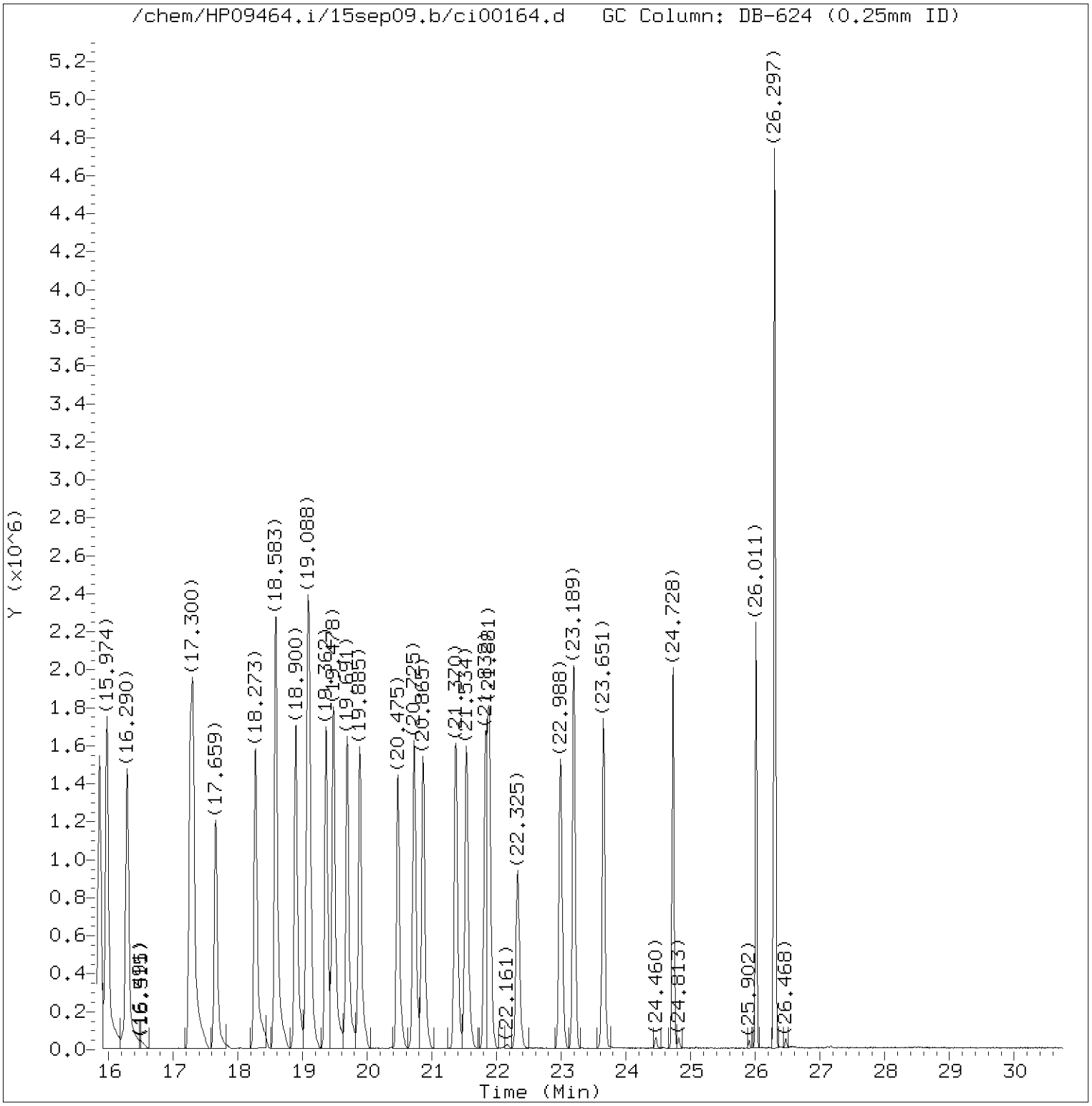
Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 16:15 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 16:15 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 16:15 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	1107180	8.799
2) Dichlorodifluoromethane	(1)	1.908	85	2780502	8.476
3) Chlorodifluoromethane	(1)	1.914	51	2186599	8.365
4) Freon 114	(1)	2.048	85	2671928	8.914
5) Chloromethane	(1)	2.097	52	504758	8.856
6) Vinyl Chloride	(1)	2.225	62	1433432	9.283
7) 1,3-Butadiene	(1)	2.273	54	1143476	8.812
8) Bromomethane	(1)	2.590	94	1002492	8.643
9) Chloroethane	(1)	2.711	64	762807	8.108
10) Bromoethene	(1)	2.936	106	988802	10.185
11) Dichlorofluoromethane	(1)	2.955	67	2792091	8.358
12) Trichlorofluoromethane	(1)	3.034	101	2654219	8.169
13) Pentane	(1)	3.143	43	2480515	8.081
14) Ethanol	(1)	3.314	45	354332	5.201
15) Freon123a	(1)	3.441	67	2375299	8.675
16) Acrolein	(1)	3.569	56	234207	7.175
17) 1,1-Dichloroethene	(1)	3.703	61	2118832	8.824
18) Freon 113	(1)	3.752	103	1250880	8.100
19) Acetone	(1)	3.800	43	1071207	9.397
20) Methyl Iodide	(1)	3.892	142	1892476	9.541
21) Carbon Disulfide	(1)	3.983	76	3651909	8.695
22) Isopropanol	(1)	4.074	45	1538795	8.122
23) Acetonitrile	(1)	4.190	40	265854	7.707
24) 3-Chloropropene	(1)	4.257	76	592574	9.258
25) Methylene Chloride	(1)	4.439	84	1061380	9.633
26) tert-Butyl Alcohol	(1)	4.768	59	1875130	10.096
27) Acrylonitrile	(1)	4.871	53	722115	8.474
28) trans-1,2-Dichloroethene	(1)	4.938	61	2028535	7.623
29) Methyl t-Butyl Ether	(1)	5.005	73	1858947	10.634
30) Hexane	(1)	5.522	57	1717864	9.247
31) 1,1-Dichloroethane	(1)	5.711	63	1934357	8.602
32) Vinyl Acetate	(1)	5.899	86	88396	9.255
33) Di-Isopropyl Ether	(1)	5.978	45	2330276	11.153
36) 1,2-Dichloroethene (total)	(1)		61	3540691	16.344
34) Ethyl Tert-Butyl Ether	(1)	6.666	59	1723396	11.358
35) cis-1,2-Dichloroethene	(1)	6.799	61	1512156	8.721
37) 2-Butanone	(1)	6.897	72	305505	10.873
38) Ethyl Acetate	(1)	7.085	70	173239	11.851

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on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 16:15 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.104	55	1169098	10.569
40)*Bromochloromethane	(1)	7.231	130	673521	10.000
41) Tetrahydrofuran	(1)	7.377	42	818506	10.009
42) Chloroform	(1)	7.432	83	1846468	8.678
43) 1,1,1-Trichloroethane	(1)	7.736	97	1648080	8.830
44) Cyclohexane	(1)	7.840	56	1872205	9.259
45) Carbon Tetrachloride	(1)	8.047	117	1654127	8.989
46) Benzene	(2)	8.418	78	2703230	8.848
47) 1,2-Dichloroethane	(2)	8.448	62	1318000	7.782
48) Isooctane	(2)	8.673	57	4867806	9.064
49) Tert-Amyl Methyl Ether	(2)	8.758	73	1493411	10.560
50) Heptane	(2)	9.081	43	1994881	8.317
51)*1,4-Difluorobenzene	(2)	9.221	114	2151177	10.000
52) Trichloroethene	(2)	9.683	130	979888	7.804
53) Ethyl Acrylate	(2)	10.048	55	1412754	9.724
54) 1,2-Dichloropropane	(2)	10.097	63	1048661	8.412
55) Dibromomethane	(2)	10.316	174	667234	8.323
56) 1,4-Dioxane	(2)	10.474	88	430689	10.232
57) Methyl Methacrylate	(2)	10.510	69	634040	9.058
58) Bromodichloromethane	(2)	10.693	83	1966340	8.208
59) cis-1,3-Dichloropropene	(2)	11.660	75	1170889	8.455
60) 4-Methyl-2-Pentanone	(2)	12.092	43	1836601	9.379
61) Toluene	(3)	12.372	91	2284586	9.649
64) 1,3-Dichloropropene (total)	(3)		75	2384894	17.098
62) Octane	(3)	12.834	43	2441733	9.337
63) trans-1,3-Dichloropropene	(3)	12.920	75	1214005	8.643
65) Ethyl Methacrylate	(3)	13.285	69	1071030	9.571
66) 1,1,2-Trichloroethane	(3)	13.297	97	873715	8.904
67) Tetrachloroethene	(3)	13.601	166	1067940	9.049
68) 2-Hexanone	(3)	14.015	43	2008754	9.590
69) Dibromochloromethane	(3)	14.161	127	1083225	8.291
70) 1,2-Dibromoethane	(3)	14.367	107	1184573	8.379
71)*Chlorobenzene-d5	(3)	15.548	117	2071426	10.000
72) Chlorobenzene	(3)	15.621	112	1693876	8.991
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	822848	9.194
74) Ethylbenzene	(3)	15.974	91	2487405	9.891
75) m/p-Xylene	(3)	16.290	91	1758342	8.742
77) Xylene (total)	(3)		91	3770827	18.208

* = Compound is an internal standard.

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on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 16:15 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.263	91	2012485	9.466
78) Styrene	(3)	17.306	104	1516231	9.450
79) Bromoform	(3)	17.659	173	1022167	8.902
80) Cumene	(3)	18.273	105	2222626	9.744
81) Bromobenzene	(3)	18.900	156	775026	9.171
82) 1,1,2,2-Tetrachloroethane	(3)	19.076	83	1904280	8.673
83) 1,2,3-Trichloropropane	(3)	19.113	110	433225	8.712
84) n-Propylbenzene	(3)	19.368	120	586100	8.892
85) 2-Chlorotoluene	(3)	19.484	126	630812	9.136
86) 4-Ethyltoluene	(3)	19.691	105	2217217	8.924
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1803535	8.603
88) Alpha Methyl Styrene	(3)	20.475	118	854754	8.460
89) tert-Butylbenzene	(3)	20.725	119	1543562	8.733
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1842352	8.293
91) sec-Butylbenzene	(3)	21.370	105	2564011	8.711
92) 1,3-Dichlorobenzene	(3)	21.534	146	1341454	8.560
93) 1,4-Dichlorobenzene	(3)	21.826	146	1327856	8.313
94) p-Isopropyltoluene	(3)	21.887	119	1973227	8.464
95) Benzyl Chloride	(3)	22.325	91	1697612	7.255
96) 1,2-Dichlorobenzene	(3)	22.988	146	1178826	8.098
97) n-Butylbenzene	(3)	23.189	91	2255609	8.208
98) Hexachloroethane	(3)	23.651	117	709297	8.076
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	574545	8.116
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	554803	6.751
101) Hexachlorobutadiene	(3)	26.291	225	547392	7.195
102) Naphthalene	(3)	26.303	128	1737364	8.043

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on 09/09/2015 at 20:17.
Target 3.5 esignature user ID: jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

VBLKC77

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: **09-SEP-2015 18:43**
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.237(-0.006)	1012	130	545444 (-19)	10.00		404113 - 942929
51) 1,4-Difluorobenzene	9.233(-0.012)	1340	114	1910720 (-11)	10.00		1290707 - 3011647
71) Chlorobenzene-d5	15.554(-0.006)	2379	117	1829924 (-12)	10.00		1242856 - 2899996

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)			Not Detected					0.5	1
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					1	2
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)			Not Detected					0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)			Not Detected					0.5	1
22) Isopropanol	(1)			Not Detected					0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
32) Vinyl Acetate	(1)			Not Detected					1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
38) Ethyl Acetate	(1)			Not Detected					0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)			Not Detected					0.5	1
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
44) Cyclohexane	(1)			Not Detected					0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: **09-SEP-2015 18:43**
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)				Not Detected					0.2	1
46) Benzene	(2)				Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)				Not Detected					0.2	1
48) Isooctane	(2)				Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)				Not Detected					0.2	1
50) Heptane	(2)				Not Detected					0.5	1
52) Trichloroethene	(2)				Not Detected					0.2	1
53) Ethyl Acrylate	(2)				Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)				Not Detected					0.2	1
55) Dibromomethane	(2)				Not Detected					0.2	1
56) 1,4-Dioxane	(2)				Not Detected					0.5	1
57) Methyl Methacrylate	(2)				Not Detected					0.2	1
58) Bromodichloromethane	(2)				Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)				Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)				Not Detected					0.5	2
61) Toluene	(3)				Not Detected					0.2	1
62) Octane	(3)				Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)				Not Detected					0.2	1
64) 1,3-Dichloropropene (total)	(3)				Not Detected					0.2	1
65) Ethyl Methacrylate	(3)				Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)				Not Detected					0.2	1
67) Tetrachloroethene	(3)				Not Detected					0.2	1
68) 2-Hexanone	(3)				Not Detected					0.5	2
69) Dibromochloromethane	(3)				Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
77) Xylene (total)	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
84) n-Propylbenzene	(3)				Not Detected					0.5	1
85) 2-Chlorotoluene	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
88) Alpha Methyl Styrene	(3)				Not Detected					0.2	1
89) tert-Butylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
91) sec-Butylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
94) p-Isopropyltoluene	(3)				Not Detected					0.2	1
95) Benzyl Chloride	(3)				Not Detected					0.5	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
97) n-Butylbenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)				Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)				Not Detected					0.5	2

Digitally signed by Jacob E. Bailey on 09/10/2015 at 14:55. Target 3.5 esignature user ID: jeb07445

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: **09-SEP-2015 18:43**
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

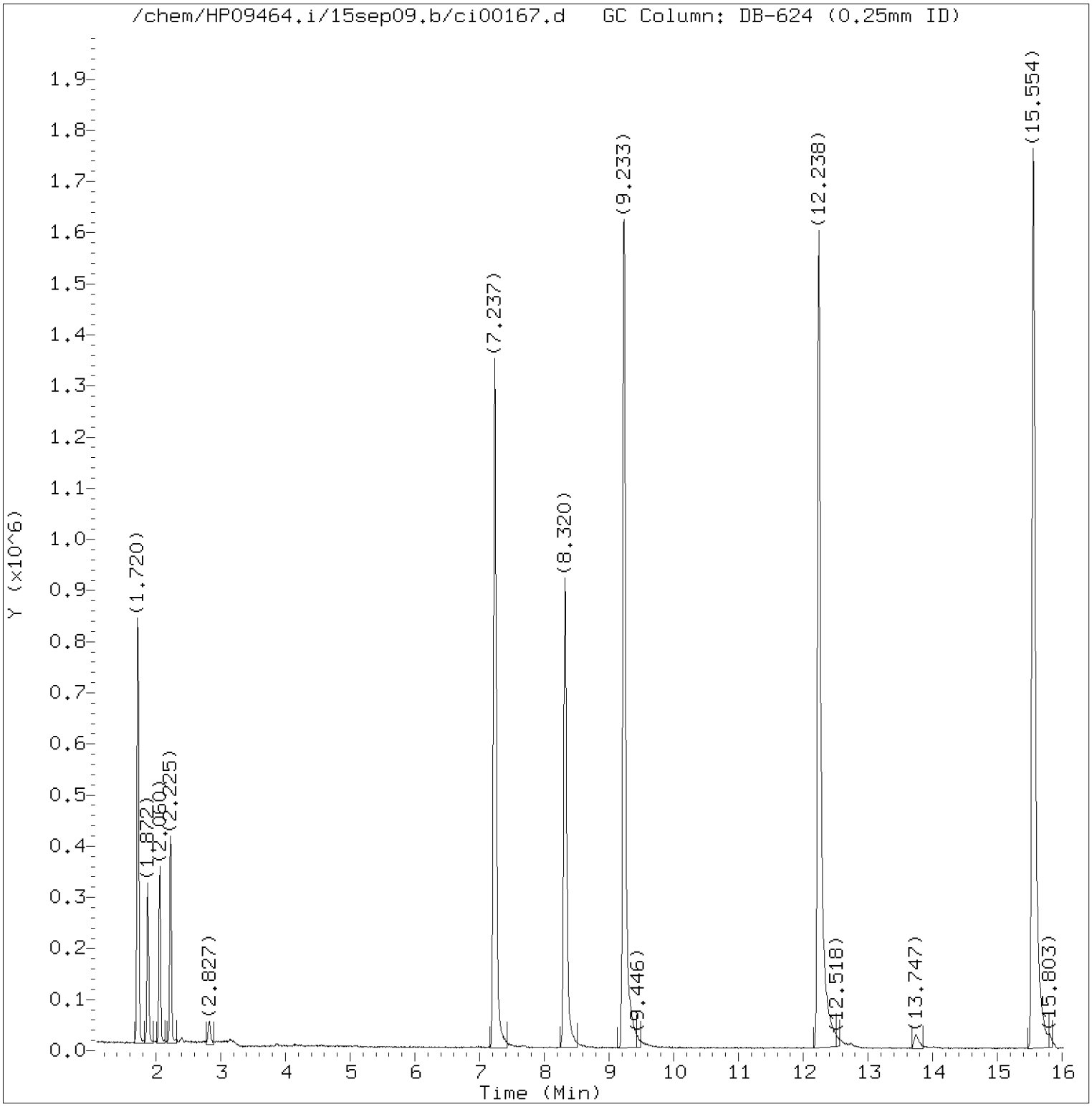
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)				Not Detected					0.4	2
102) Naphthalene	(3)				Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 14:55. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:07. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

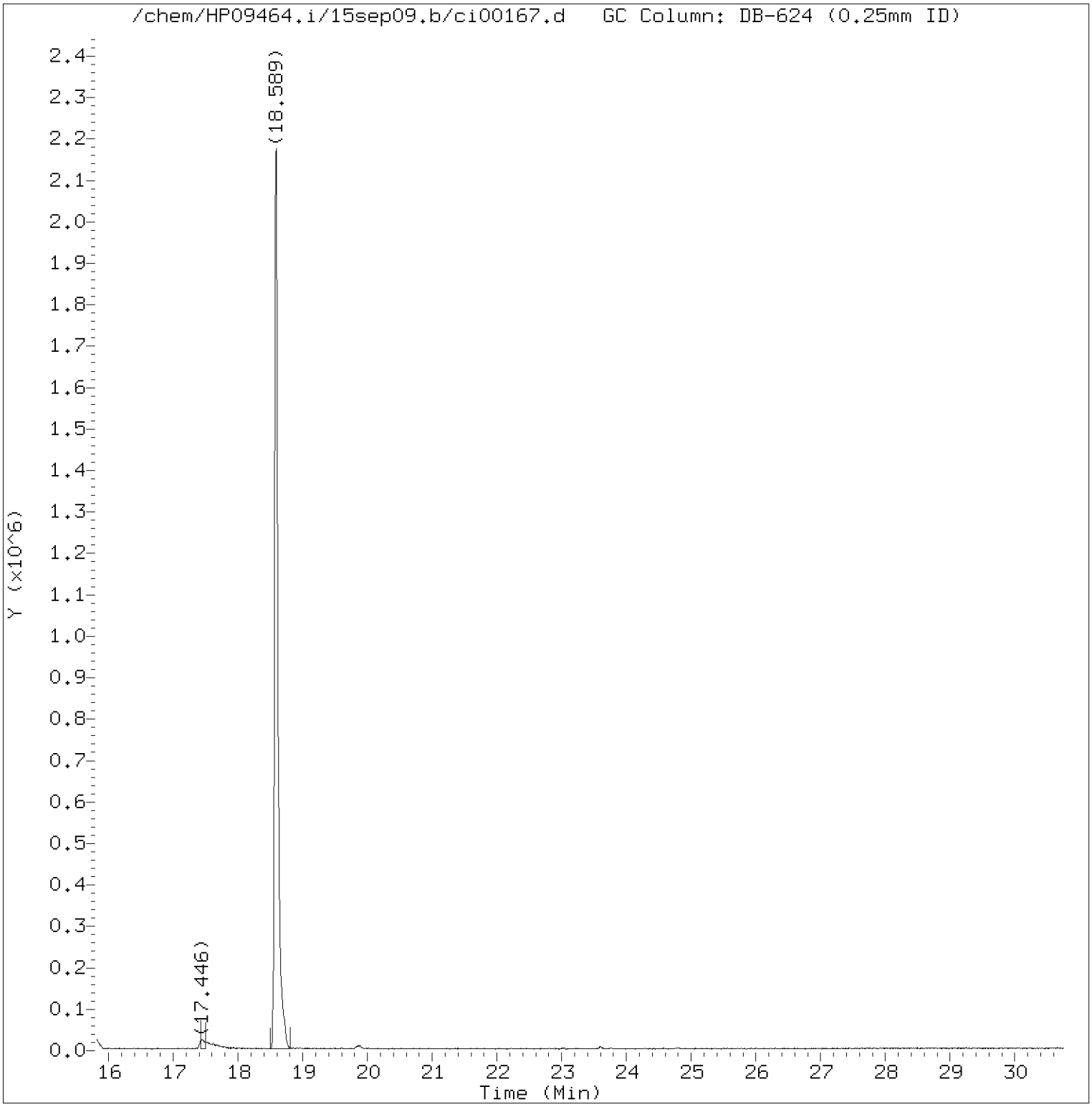
Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 18:43 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77 Lab Sample ID: VBLKC77

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 14:55.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 18:43 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77 Lab Sample ID: VBLKC77

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 14:55.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d Instrument ID: HP09464.i
Injection date and time: 09-SEP-2015 18:43 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77 Lab Sample ID: VBLKC77

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.237	130	545444	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1910720	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1829924	10.000

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 09/10/2015 at 14:55.
Target 3.5 esignature user ID: jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00179.d Injection date and time: **10-SEP-2015 04:25**
Data file Sample Info. Line: cc1165;;C1524630AC;cc1165;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.238(-0.006)	1012	130	487511 (-28)	10.00		404113 - 942929
51) 1,4-Difluorobenzene	9.233(-0.012)	1340	114	1465528 (-32)	10.00		1290707 - 3011647
71) Chlorobenzene-d5	15.554(-0.006)	2379	117	1374760 (-34)	10.00		1242856 - 2899996

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)			Not Detected					0.5	1
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					1	2
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.867(-0.008)	43	71425	0.866	0.87		J	0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)			Not Detected					0.5	1
22) Isopropanol	(1)			Not Detected					0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
32) Vinyl Acetate	(1)			Not Detected					1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
38) Ethyl Acetate	(1)			Not Detected					0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)			Not Detected					0.5	1
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
44) Cyclohexane	(1)			Not Detected					0.2	1

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00179.d Injection date and time: **10-SEP-2015 04:25**
Data file Sample Info. Line: cc1165;;C1524630AC;cc1165;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.5	1
52) Trichloroethene	(2)			Not Detected					0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)			Not Detected					0.5	1
57) Methyl Methacrylate	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)			Not Detected					0.2	1
62) Octane	(3)			Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
64) 1,3-Dichloropropene (total)	(3)			Not Detected					0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)			Not Detected					0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
77) Xylene (total)	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.5	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)			Not Detected					0.5	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)			Not Detected					0.5	2

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00179.d Injection date and time: **10-SEP-2015 04:25**
Data file Sample Info. Line: cc1165;;C1524630AC;cc1165;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

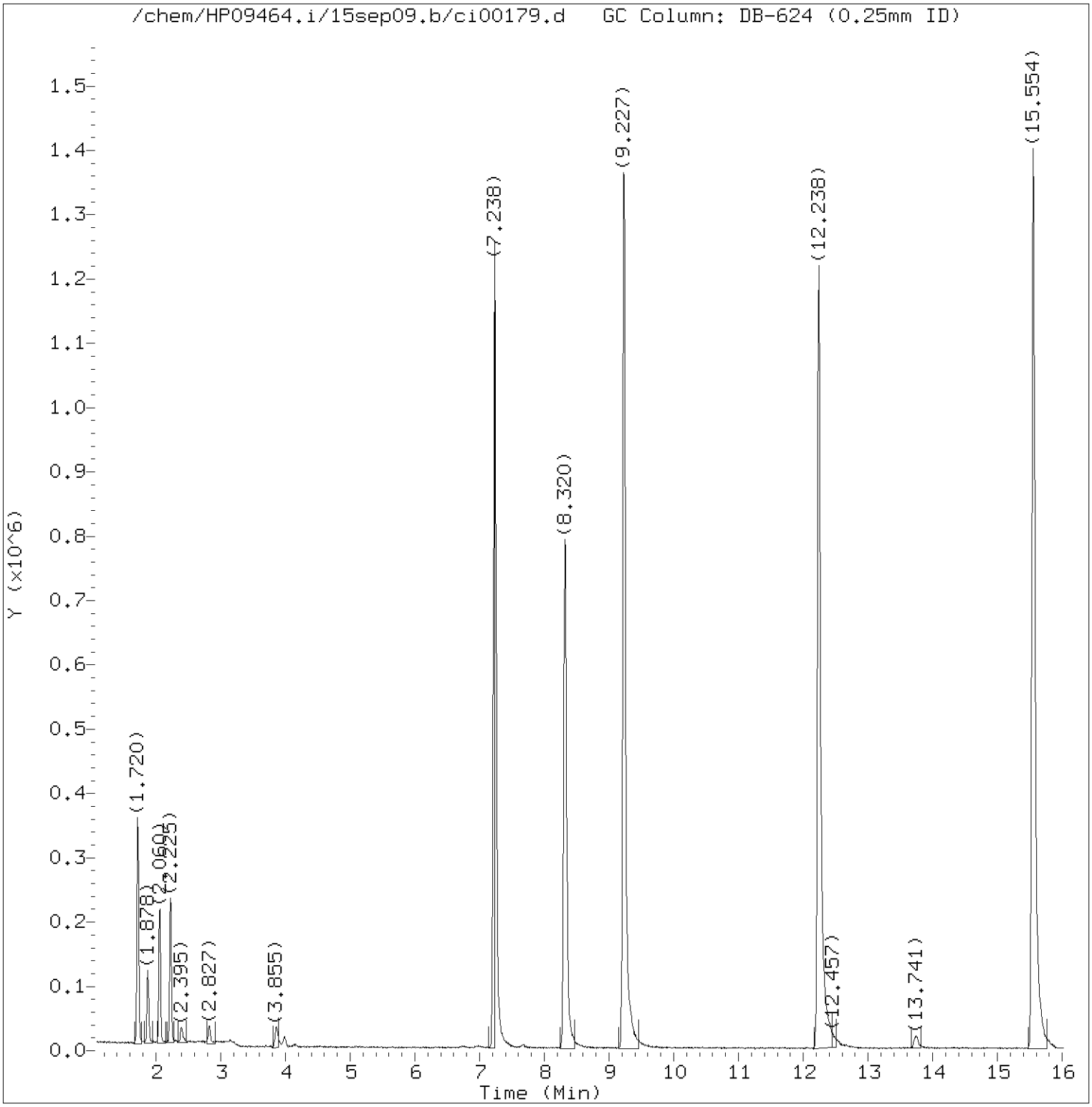
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)				Not Detected					0.4	2
102) Naphthalene	(3)				Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:14. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

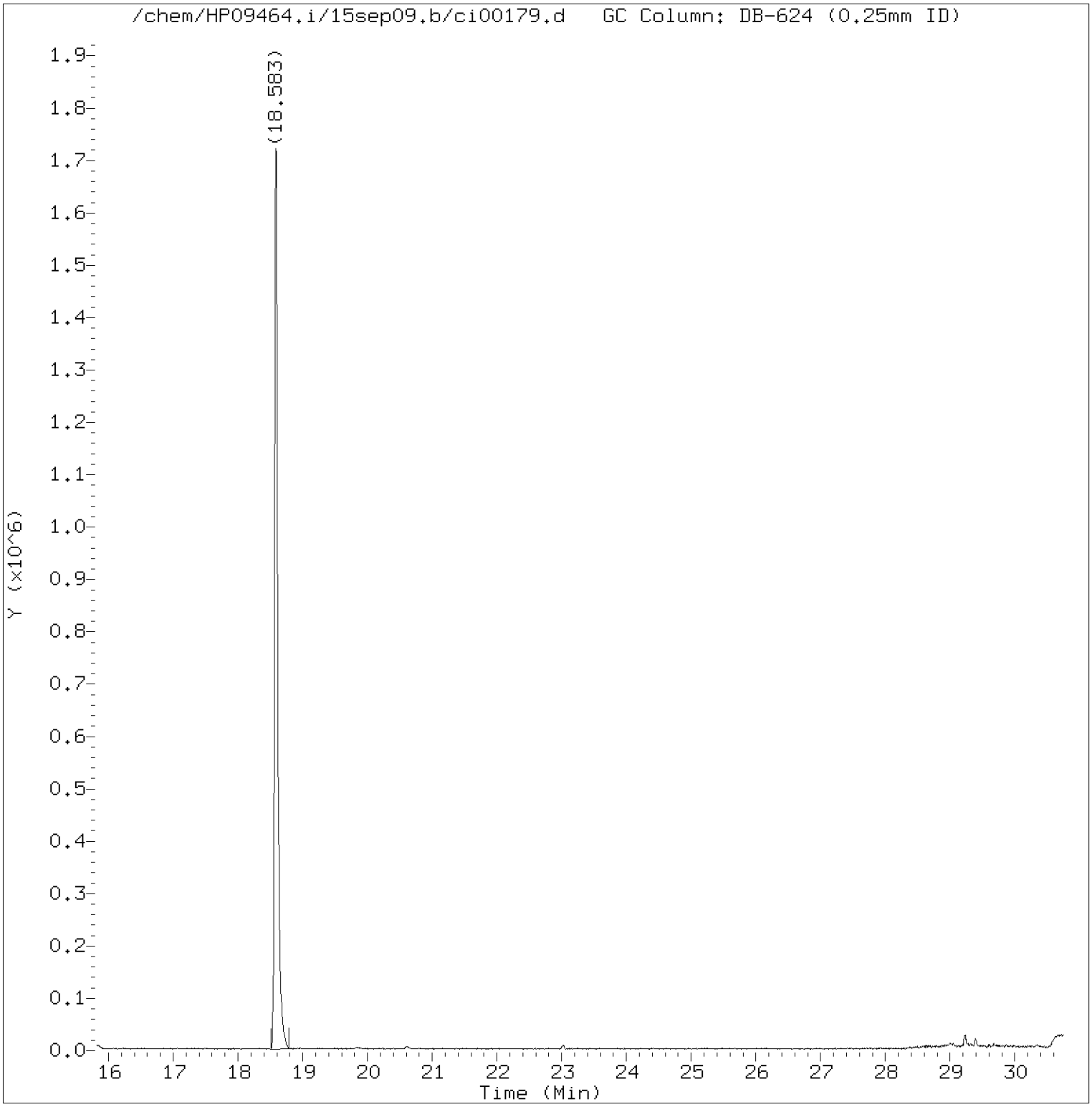
Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00179.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 04:25 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1165 Lab Sample ID: cc1165

Digitally signed by Jeffrey B. Smith
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00179.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 04:25 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1165 Lab Sample ID: cc1165

Digitally signed by Jeffrey B. Smith
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00179.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 04:25 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1165 Lab Sample ID: cc1165

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.867	43	71425	0.866
40)*Bromochloromethane	(1)	7.238	130	487511	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1465528	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1374760	10.000

* = Compound is an internal standard.

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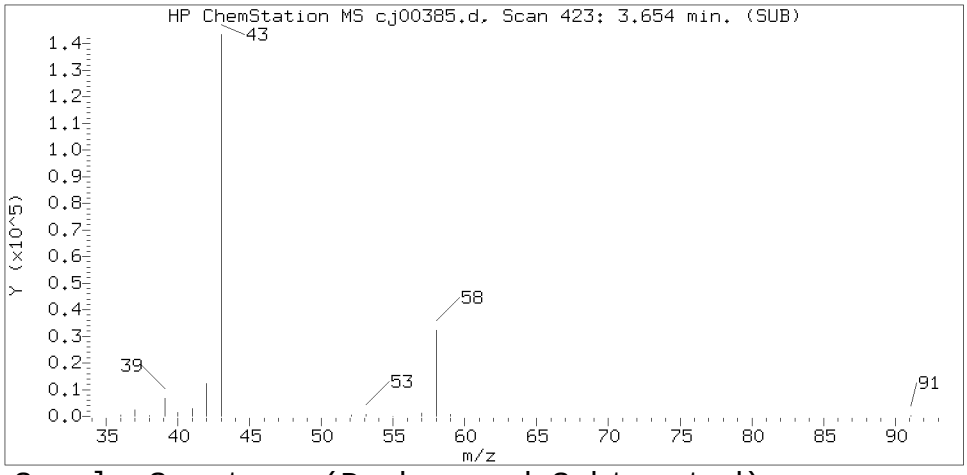
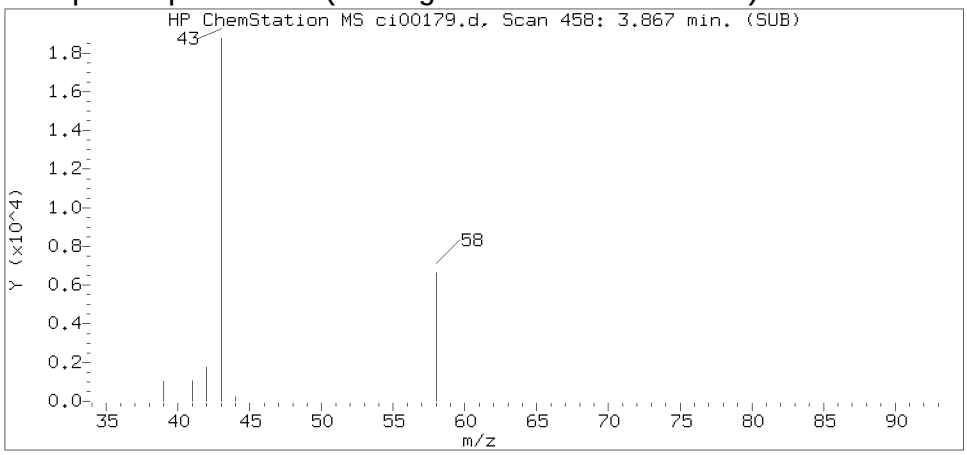
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304

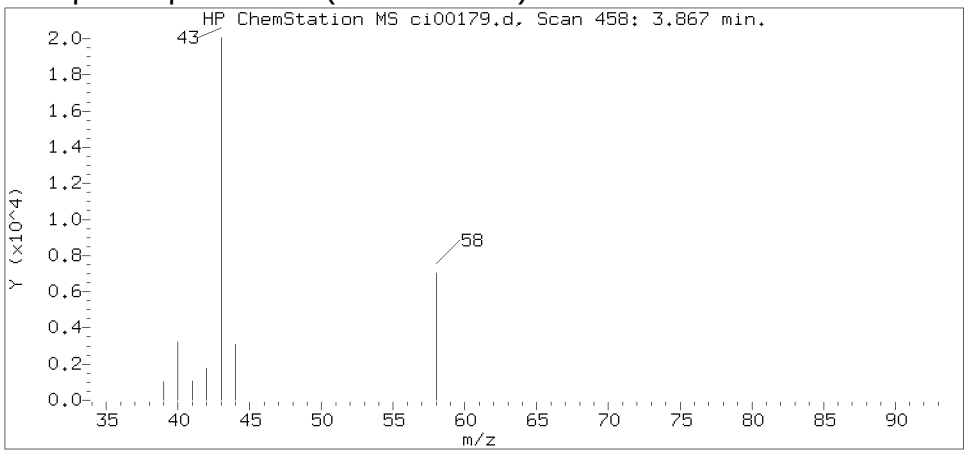
Reference Standard Spectrum for Acetone

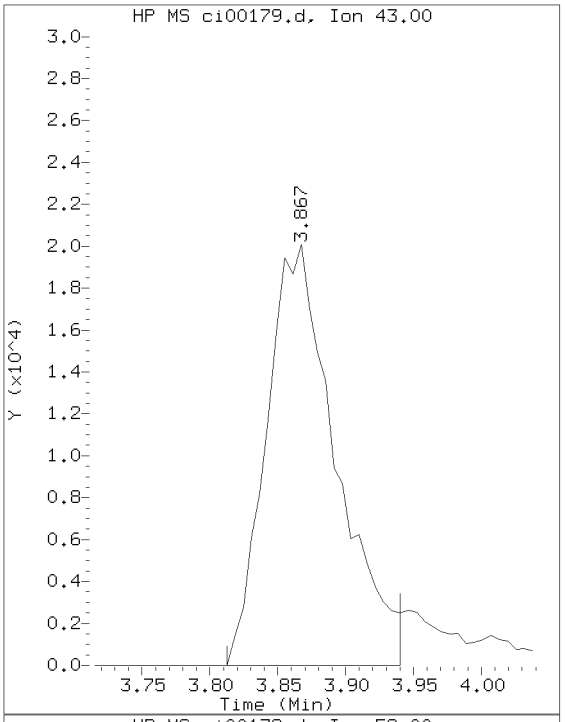


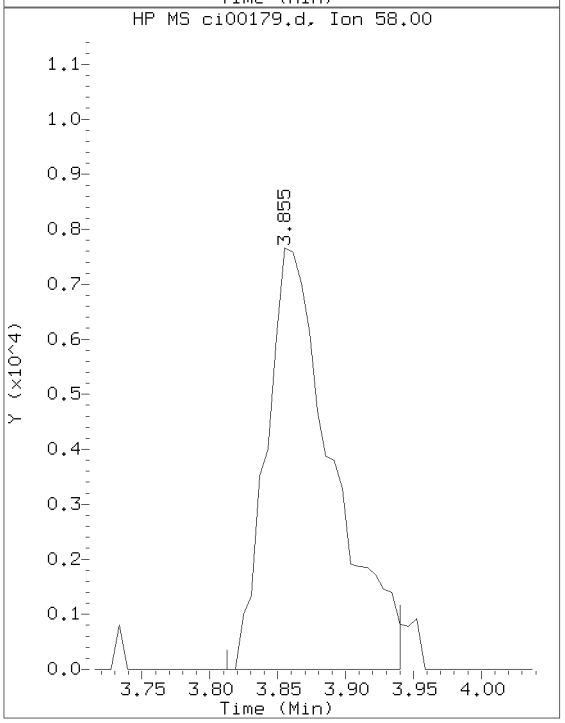
Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)







Data File: /chem/HP09464.i/15sep09.b/ci00179.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 04:25 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1165 Lab Sample ID: cc1165

Compound Number : 19
Compound Name : Acetone
Scan Number : 458
Retention Time (minutes): 3.867
Relative Retention Time :-0.00881
Quant Ion : 43.00
Area (flag) : 71425
Concentration (ppb(v)) : 0.8656

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

cc912

Data file: /chem/HP09464.i/15sep09.b/ci00182.d Injection date and time: **10-SEP-2015 06:39**
Data file Sample Info. Line: cc912;;C1524630AC;cc912;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.238(-0.006)	1012	130	476197 (-29)	10.00		404113 - 942929
51) 1,4-Difluorobenzene	9.227(-0.006)	1339	114	1375722 (-36)	10.00		1290707 - 3011647
71) Chlorobenzene-d5	15.554(-0.006)	2379	117	1374600 (-34)	10.00		1242856 - 2899996

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)			Not Detected					0.5	1
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					1	2
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.855(-0.007)	43	55909	0.694	0.69		J	0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)			Not Detected					0.5	1
22) Isopropanol	(1)			Not Detected					0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
32) Vinyl Acetate	(1)			Not Detected					1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
38) Ethyl Acetate	(1)			Not Detected					0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)			Not Detected					0.5	1
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
44) Cyclohexane	(1)			Not Detected					0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00182.d Injection date and time: **10-SEP-2015 06:39**
Data file Sample Info. Line: cc912;;C1524630AC;cc912;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)				Not Detected					0.2	1
46) Benzene	(2)				Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)				Not Detected					0.2	1
48) Isooctane	(2)				Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)				Not Detected					0.2	1
50) Heptane	(2)				Not Detected					0.5	1
52) Trichloroethene	(2)				Not Detected					0.2	1
53) Ethyl Acrylate	(2)				Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)				Not Detected					0.2	1
55) Dibromomethane	(2)				Not Detected					0.2	1
56) 1,4-Dioxane	(2)				Not Detected					0.5	1
57) Methyl Methacrylate	(2)				Not Detected					0.2	1
58) Bromodichloromethane	(2)				Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)				Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)				Not Detected					0.5	2
61) Toluene	(3)				Not Detected					0.2	1
62) Octane	(3)				Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)				Not Detected					0.2	1
64) 1,3-Dichloropropene (total)	(3)				Not Detected					0.2	1
65) Ethyl Methacrylate	(3)				Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)				Not Detected					0.2	1
67) Tetrachloroethene	(3)				Not Detected					0.2	1
68) 2-Hexanone	(3)				Not Detected					0.5	2
69) Dibromochloromethane	(3)				Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
77) Xylene (total)	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
84) n-Propylbenzene	(3)				Not Detected					0.5	1
85) 2-Chlorotoluene	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
88) Alpha Methyl Styrene	(3)				Not Detected					0.2	1
89) tert-Butylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
91) sec-Butylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
94) p-Isopropyltoluene	(3)				Not Detected					0.2	1
95) Benzyl Chloride	(3)				Not Detected					0.5	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
97) n-Butylbenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)				Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)				Not Detected					0.5	2

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP09464.i/15sep09.b/ci00182.d Injection date and time: **10-SEP-2015 06:39**
Data file Sample Info. Line: cc912;;C1524630AC;cc912;0;3;BLANK; Instrument ID: **HP09464.i** Batch: **C1524630AC**
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: **/chem/HP09464.i/15sep09.b/ci00167.d**

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09464.i/15sep09.b/ci00164.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)				Not Detected					0.4	2
102) Naphthalene	(3)				Not Detected					0.4	1

Total number of targets = 99

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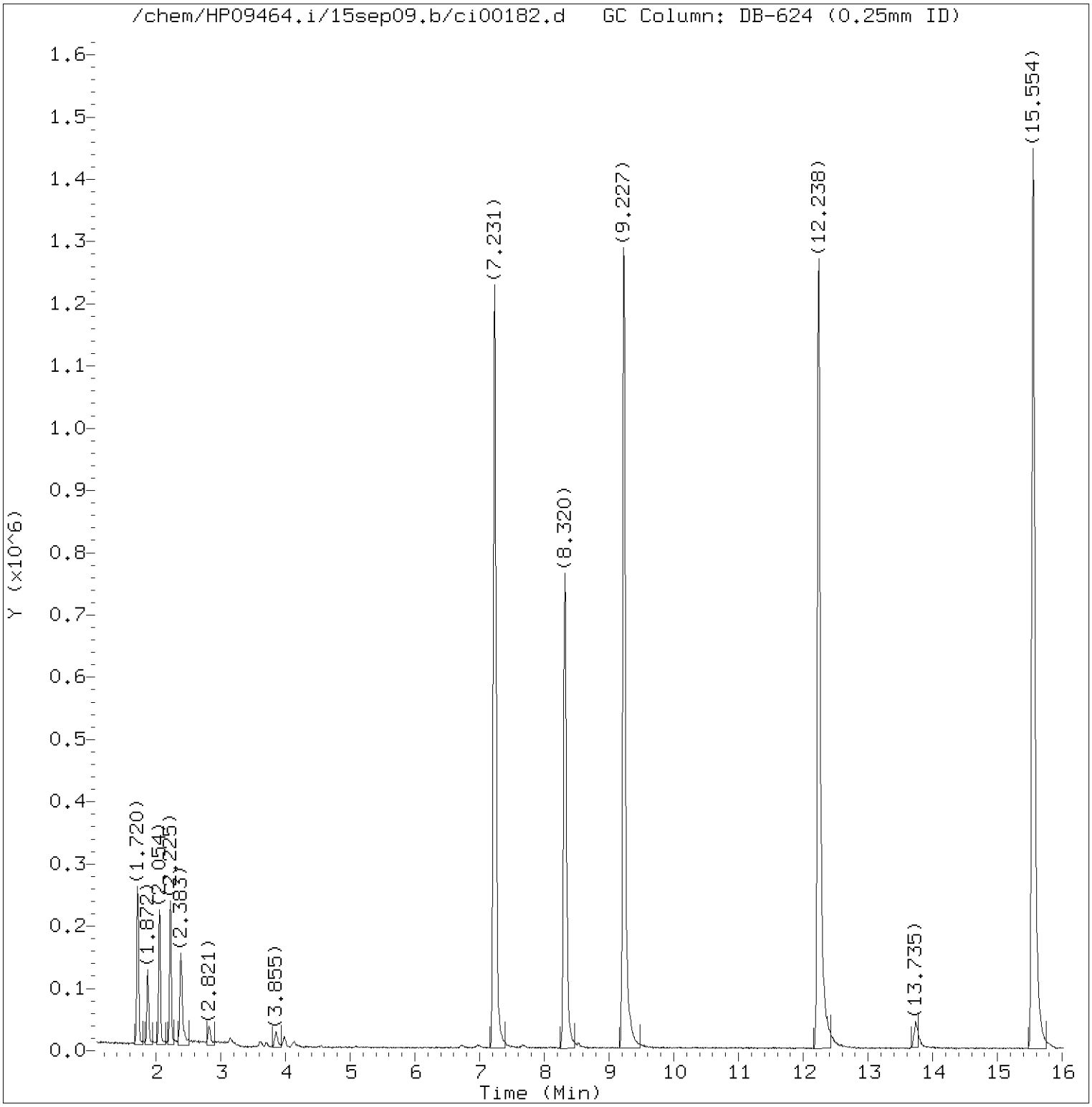
Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:17. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

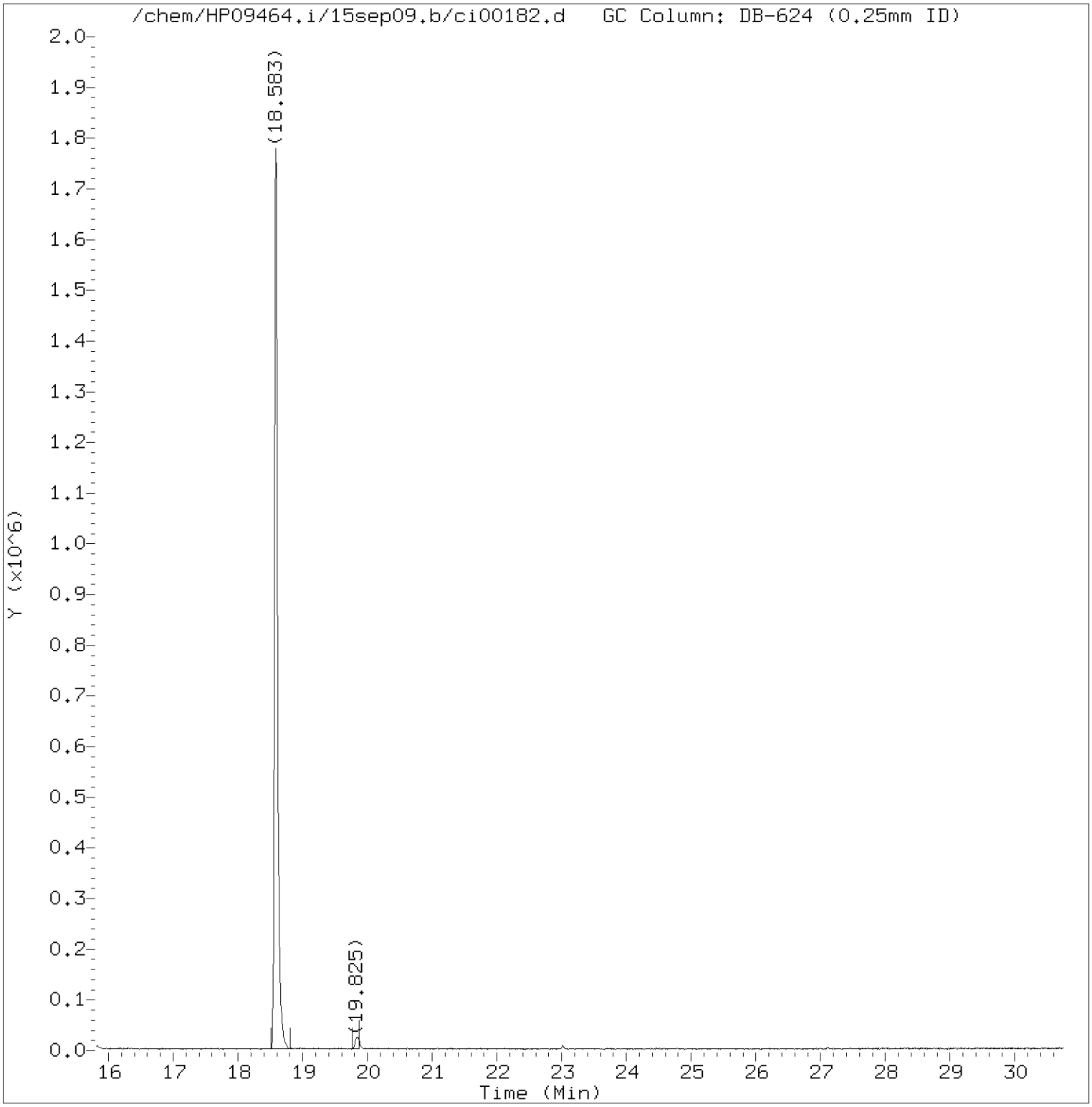
Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00182.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 06:39 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc912 Lab Sample ID: cc912

Digitally signed by Jeffrey B. Smith
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00182.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 06:39 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc912 Lab Sample ID: cc912

Digitally signed by Jeffrey B. Smith
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00182.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 06:39 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc912 Lab Sample ID: cc912

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.855	43	55909	0.694
40)*Bromochloromethane	(1)	7.238	130	476197	10.000
51)*1,4-Difluorobenzene	(2)	9.227	114	1375722	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1374600	10.000

* = Compound is an internal standard.

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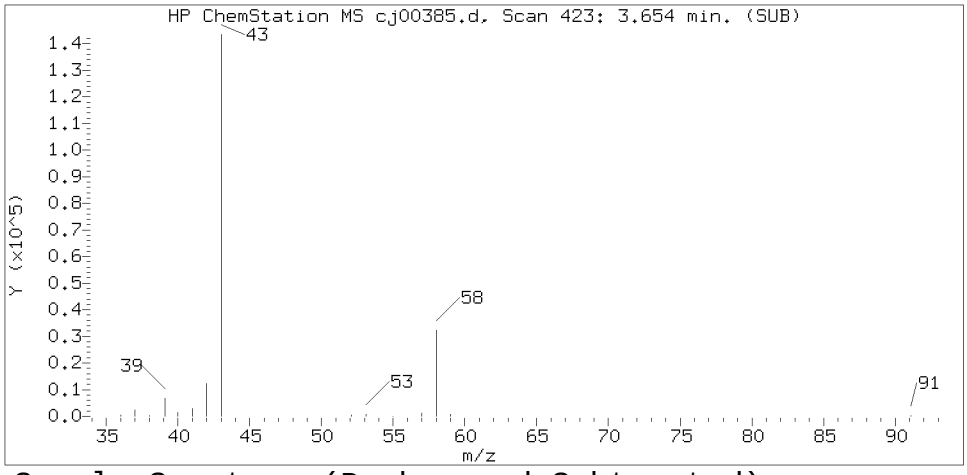
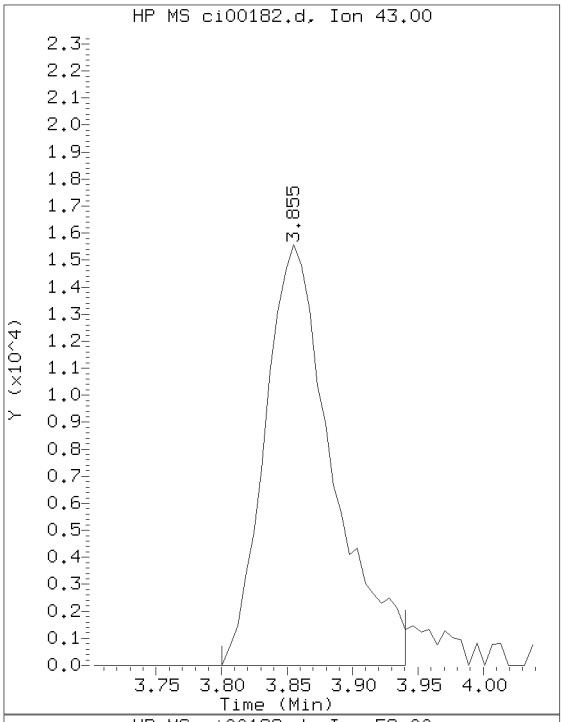
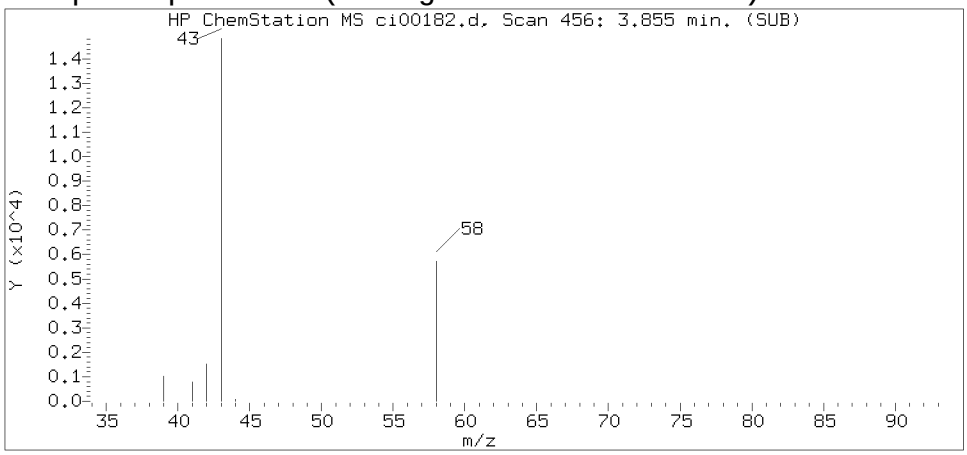
on 09/10/2015 at 11:25.
Target 3.5 esignature user ID: jbs01304

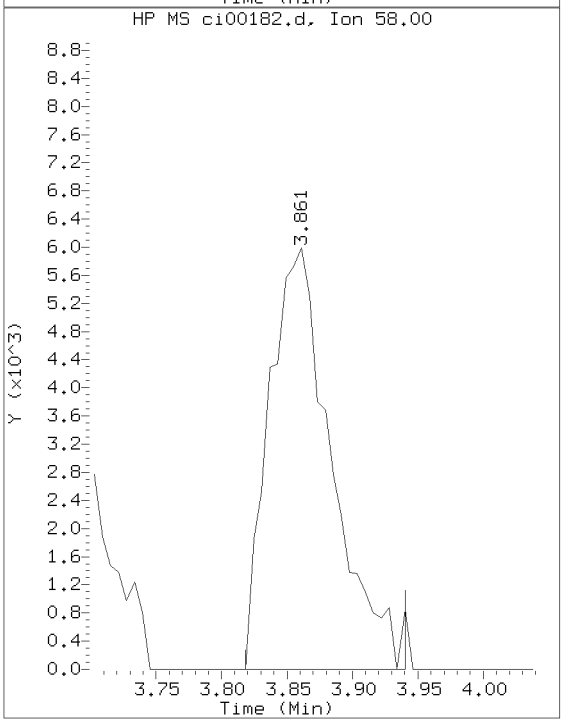
Reference Standard Spectrum for Acetone



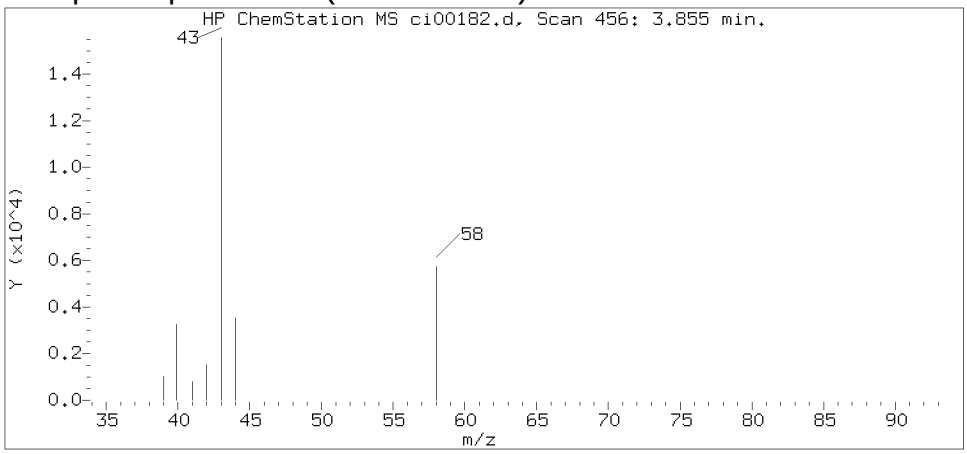


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15sep09.b/ci00182.d Instrument ID: HP09464.i
Injection date and time: 10-SEP-2015 06:39 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time: 09-SEP-2015 16:55
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc912 Lab Sample ID: cc912

Compound Number : 19
Compound Name : Acetone
Scan Number : 456
Retention Time (minutes): 3.855
Relative Retention Time :-0.00713
Quant Ion : 43.00
Area (flag) : 55909
Concentration (ppb(v)) : 0.6937

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Target 3.5 esignature user ID: jbs01304