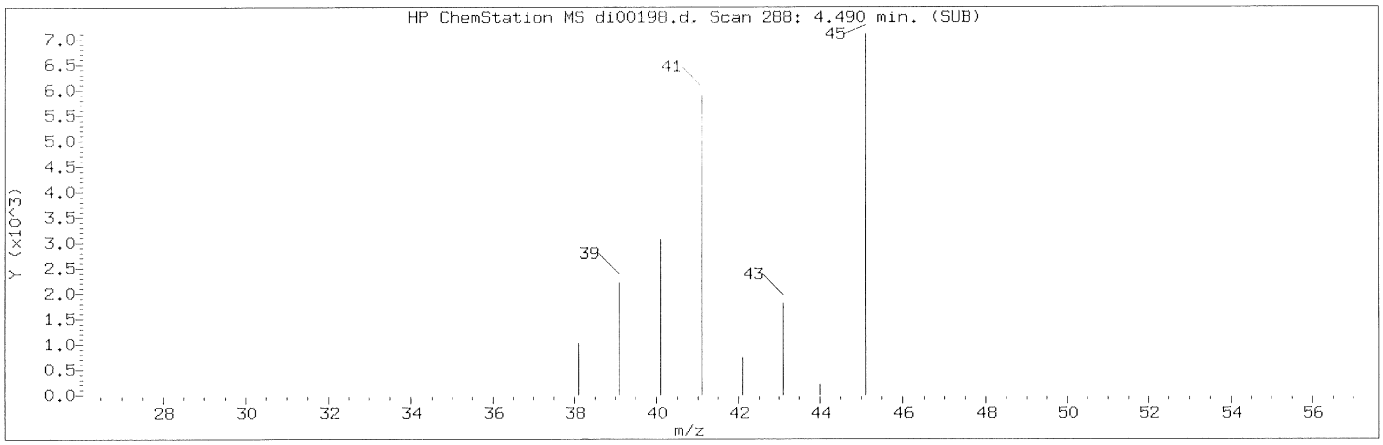
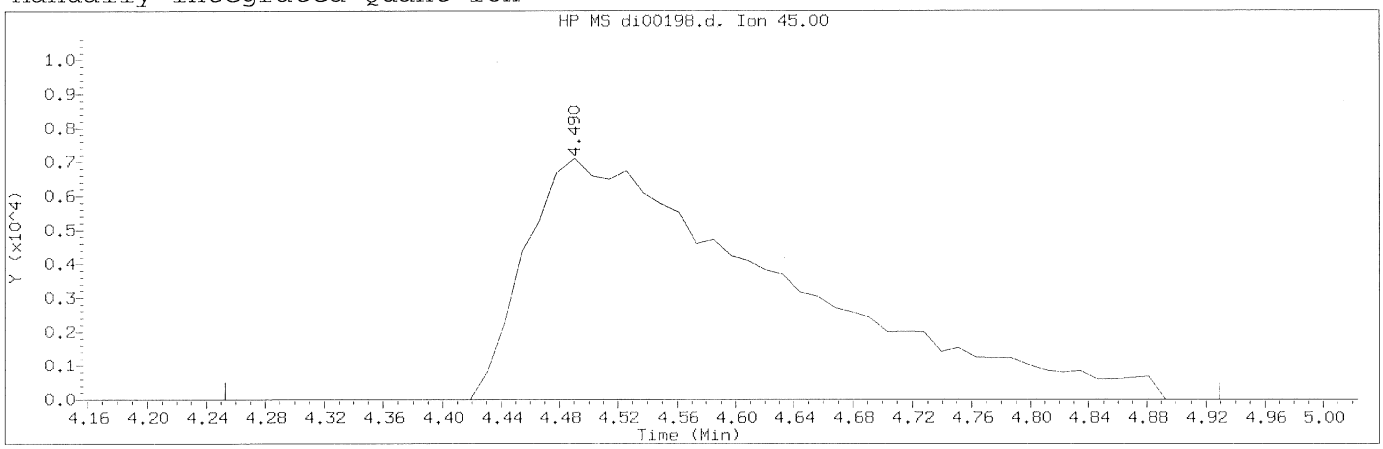
Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

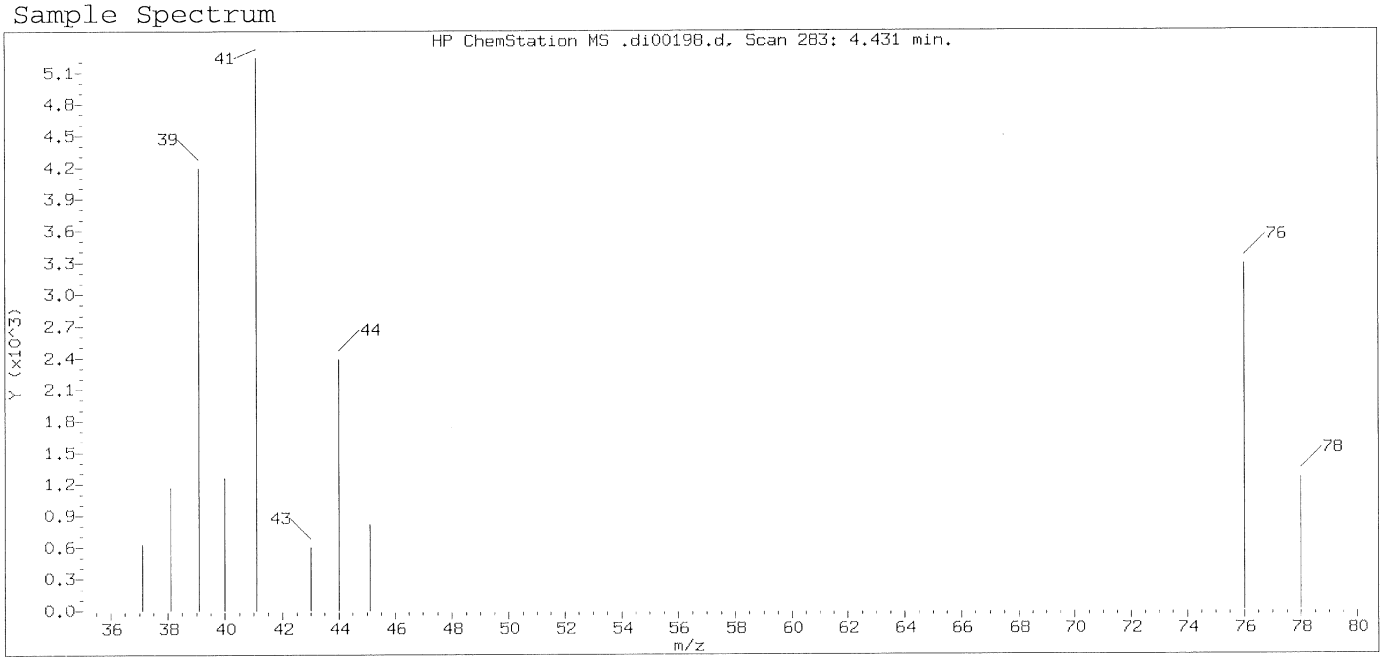
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 288		
Retention Time (minutes)	: 4.490		
Quant Ion	: 45.00		
Area (flag)	: 86529M		
Concentration (ppb(v))	: 1.1812		
Integration start scan	: 267	Integration stop scan:	324
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

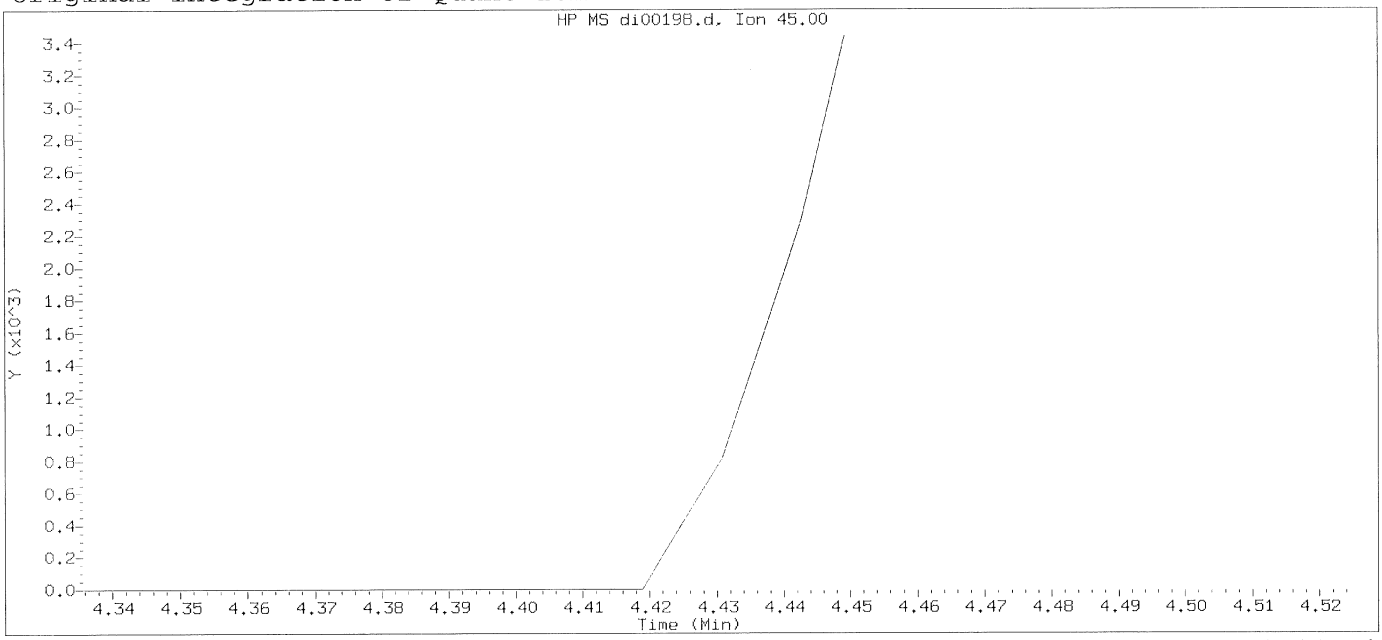
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

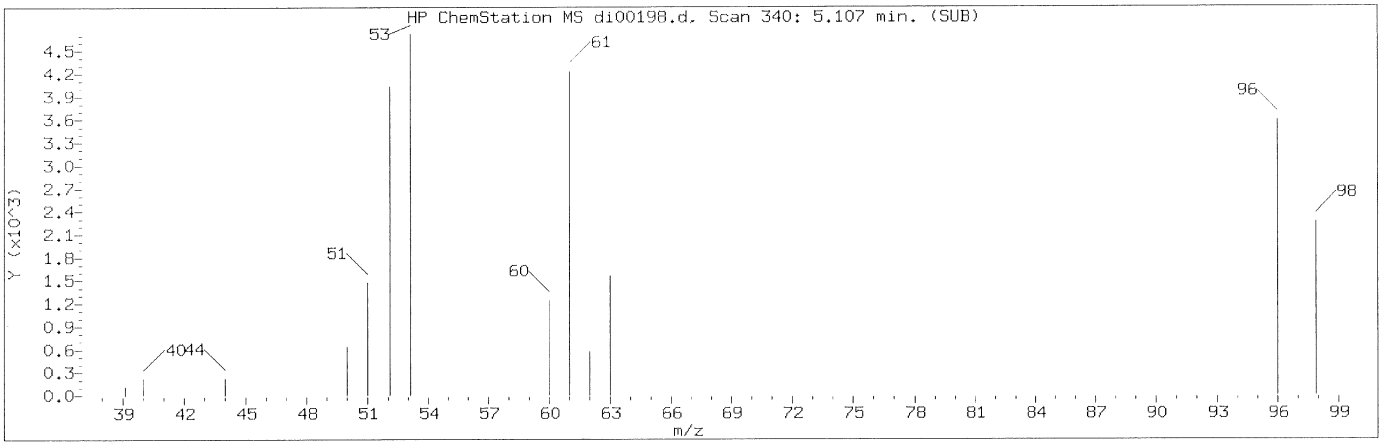
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

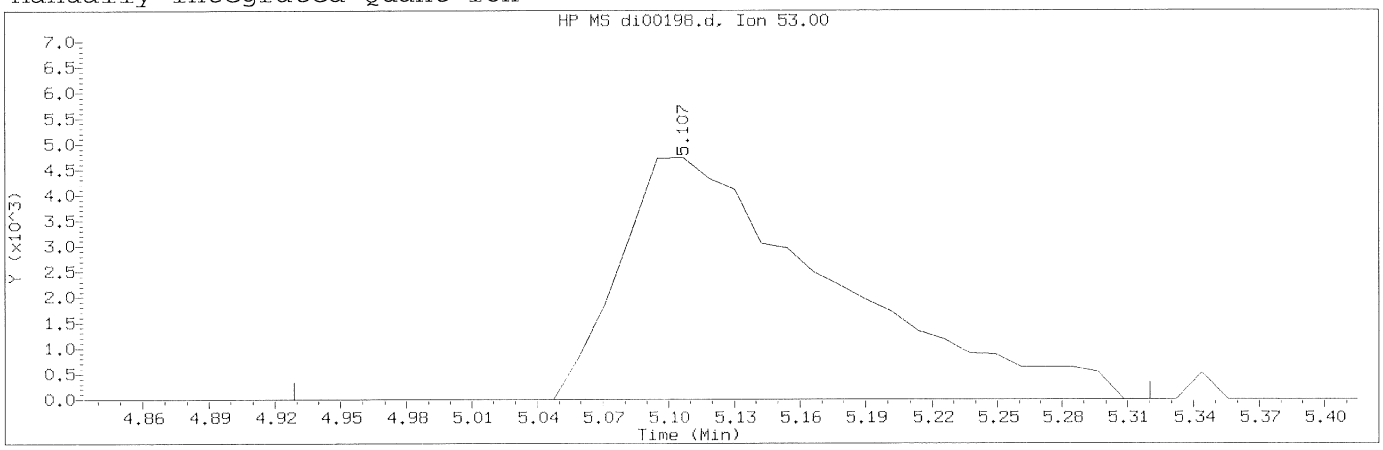
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.431
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 340
Retention Time (minutes): 5.107
Quant Ion : 53.00
Area (flag) : 32020M
Concentration (ppb(v)) : 1.1927
Integration start scan : 324 Integration stop scan: 357
Y at integration start : 0 Y at integration end: 0

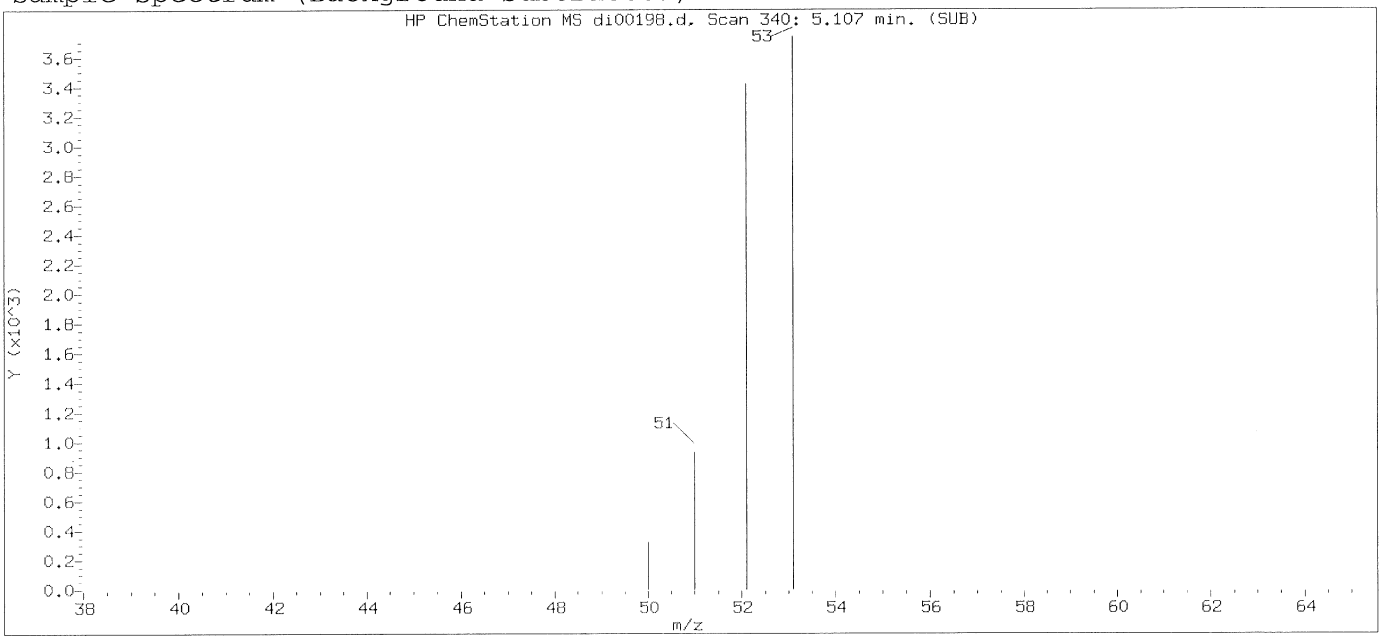
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

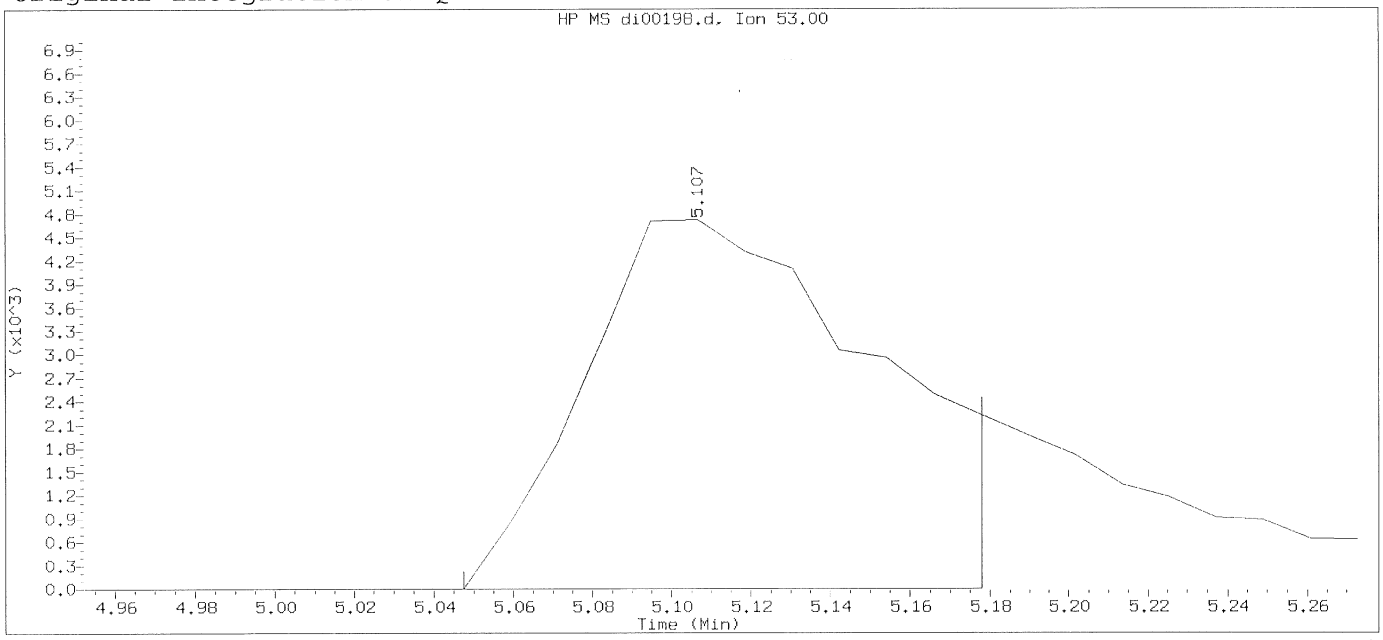
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

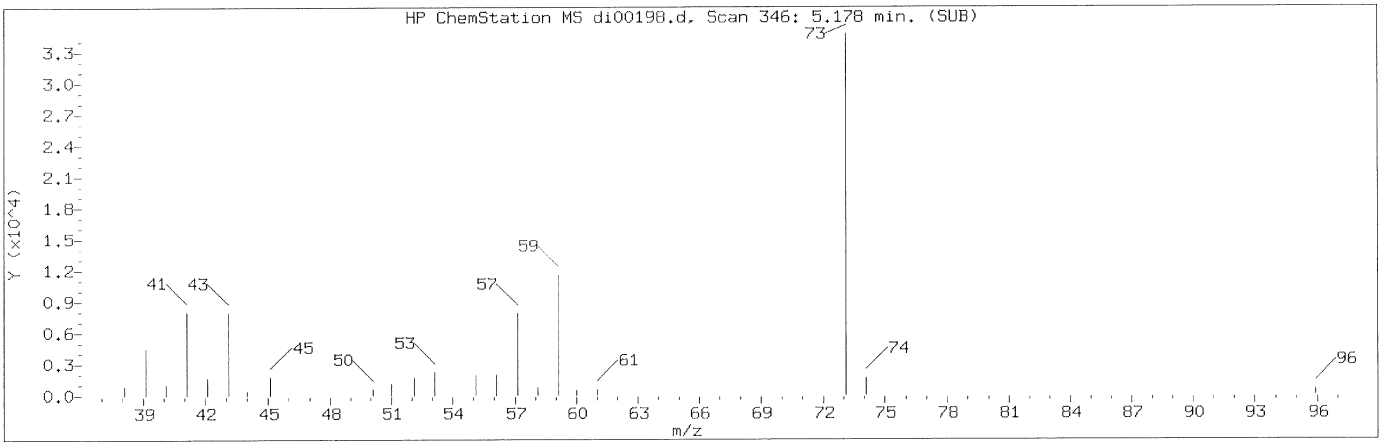
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

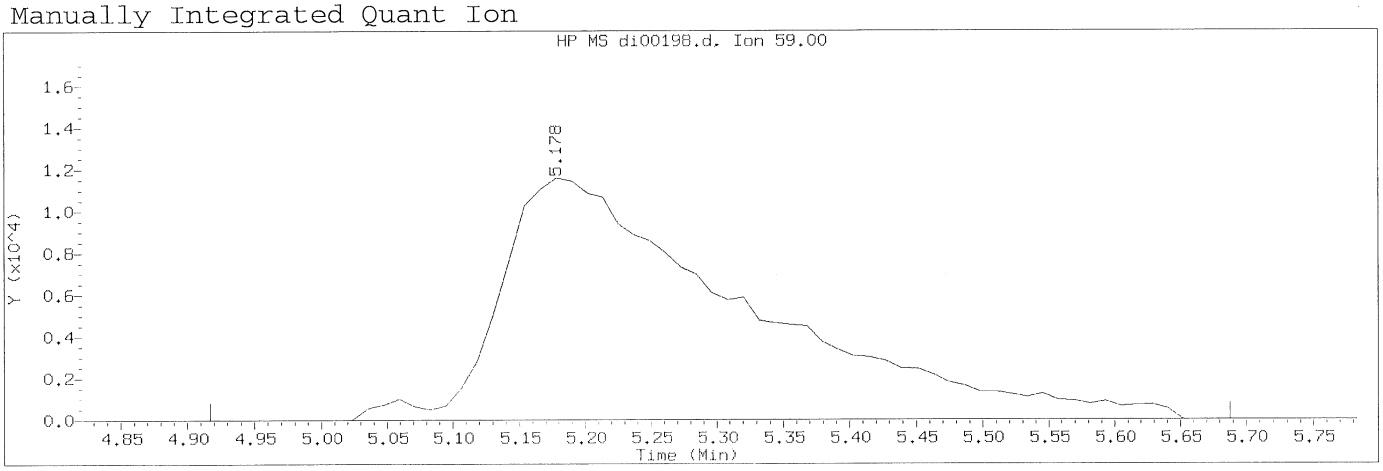
Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 340		
Retention Time (minutes)	: 5.107		
Quant Ion	: 53.00		
Area	: 23802		
Concentration (ppb(v))	: 1.2107		
Integration start scan	: 334	Integration stop scan:	345
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 346
Retention Time (minutes): 5.178
Quant Ion : 59.00
Area (flag) : 150124M
Concentration (ppb(v)) : 1.3645
Integration start scan : 323 Integration stop scan: 388
Y at integration start : 0 Y at integration end: 0

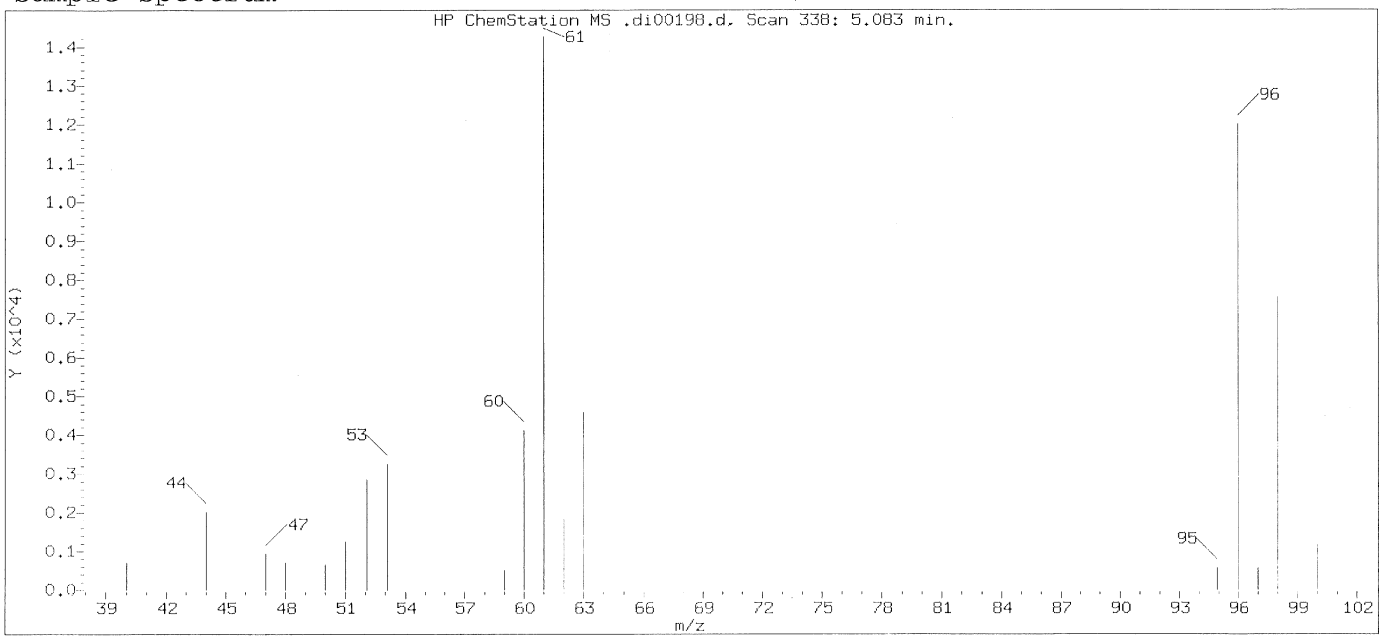
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

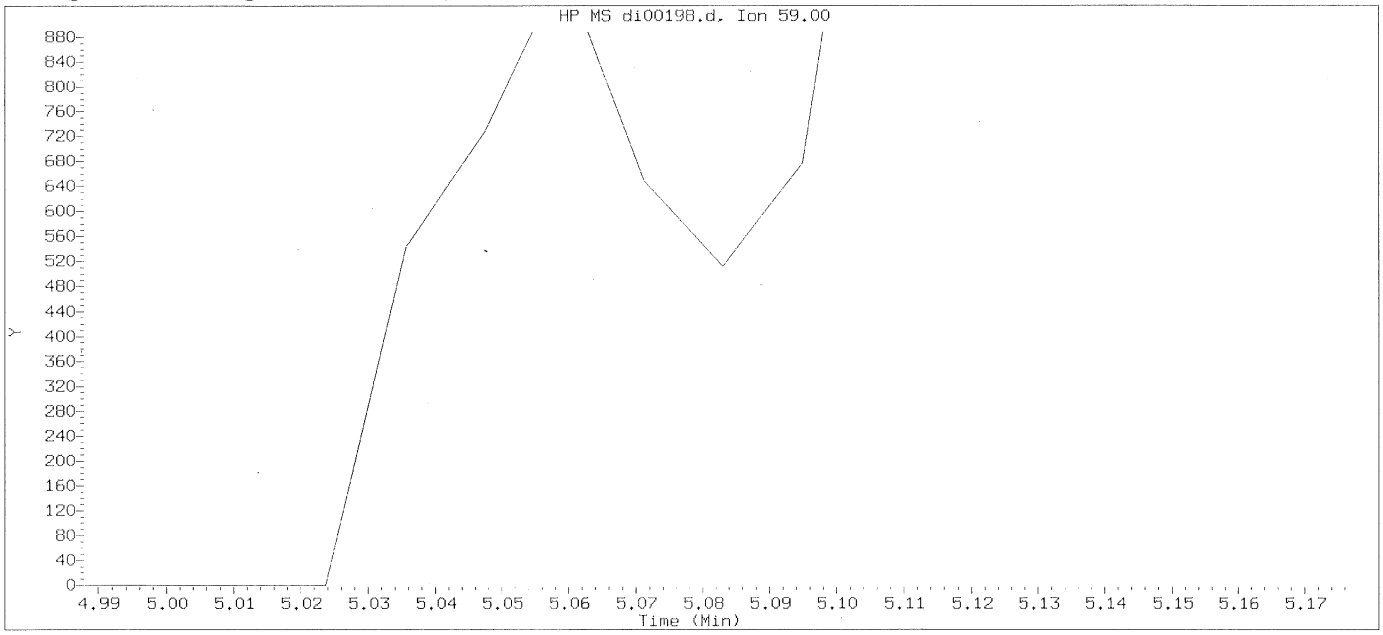
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

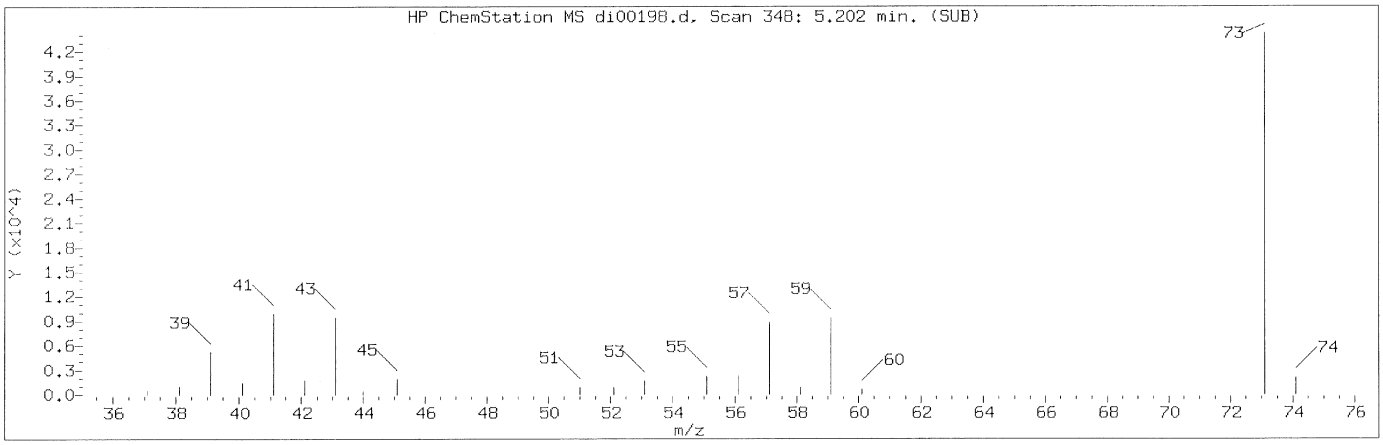
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

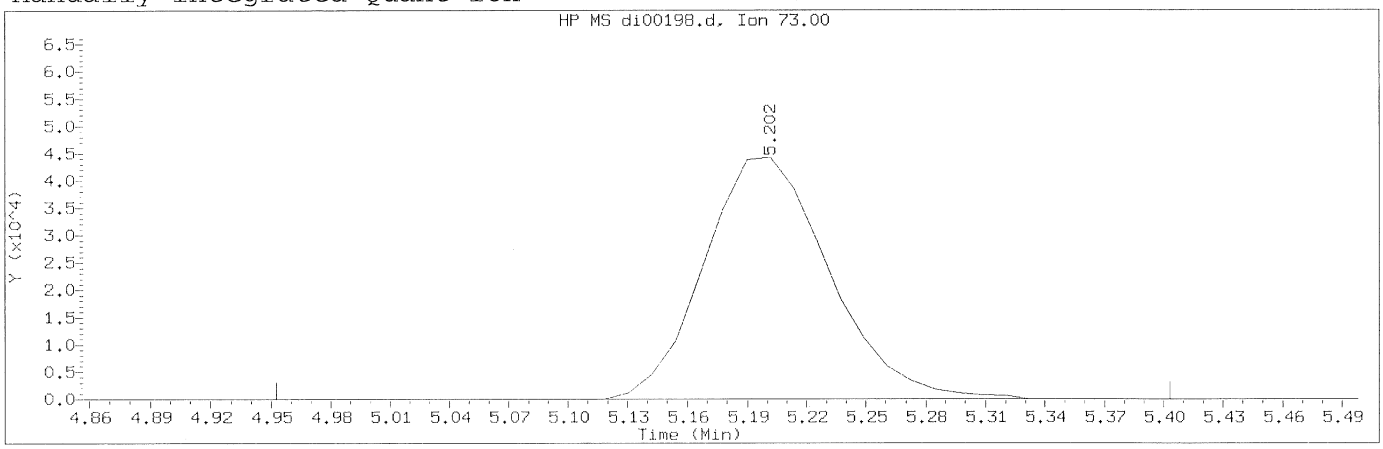
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Expected RT (minutes) : 5.083
Quant Ion : 59.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 29		
Compound Name	: Methyl t-Butyl Ether		
Scan Number	: 348		
Retention Time (minutes)	: 5.202		
Quant Ion	: 73.00		
Area (flag)	: 193954M		
Concentration (ppb(v))	: 1.2467		
Integration start scan	: 326	Integration stop scan:	364
Y at integration start	: 0	Y at integration end:	0

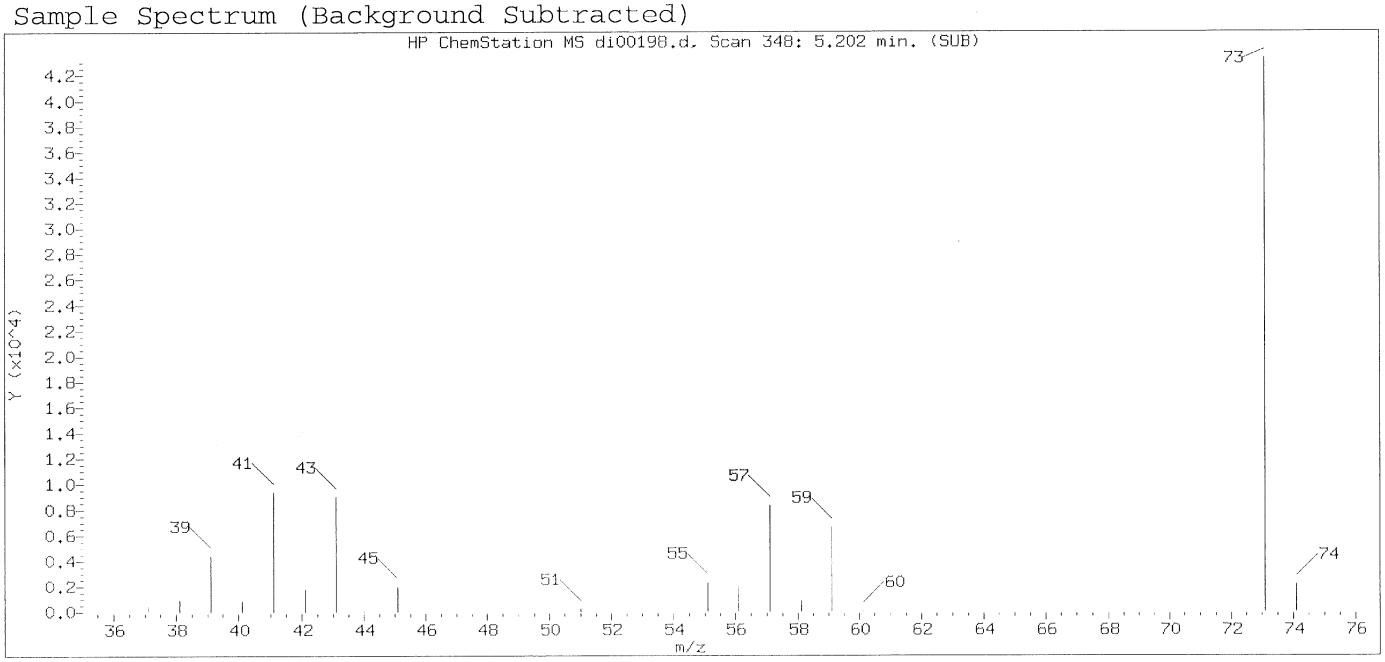
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

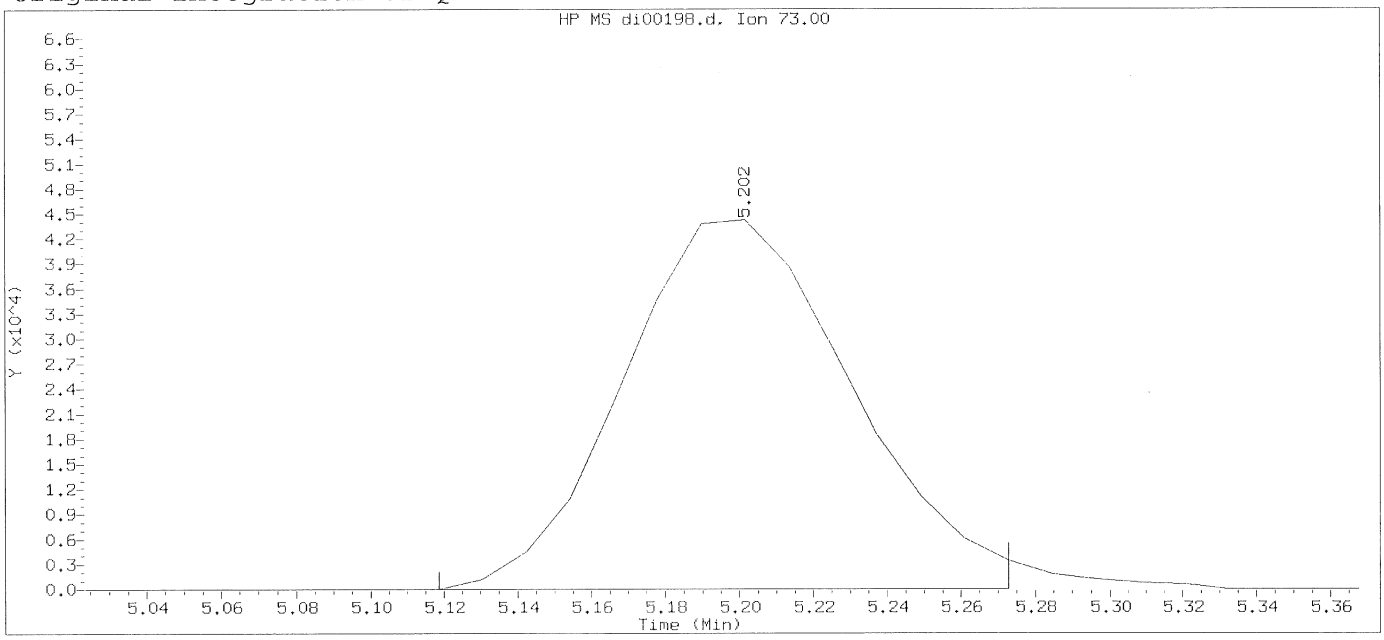
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

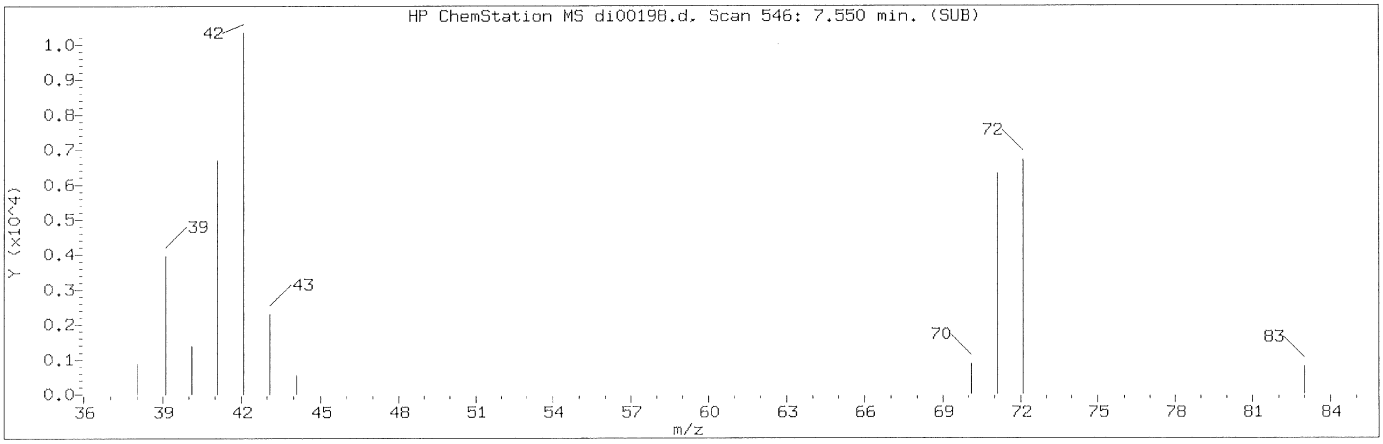
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

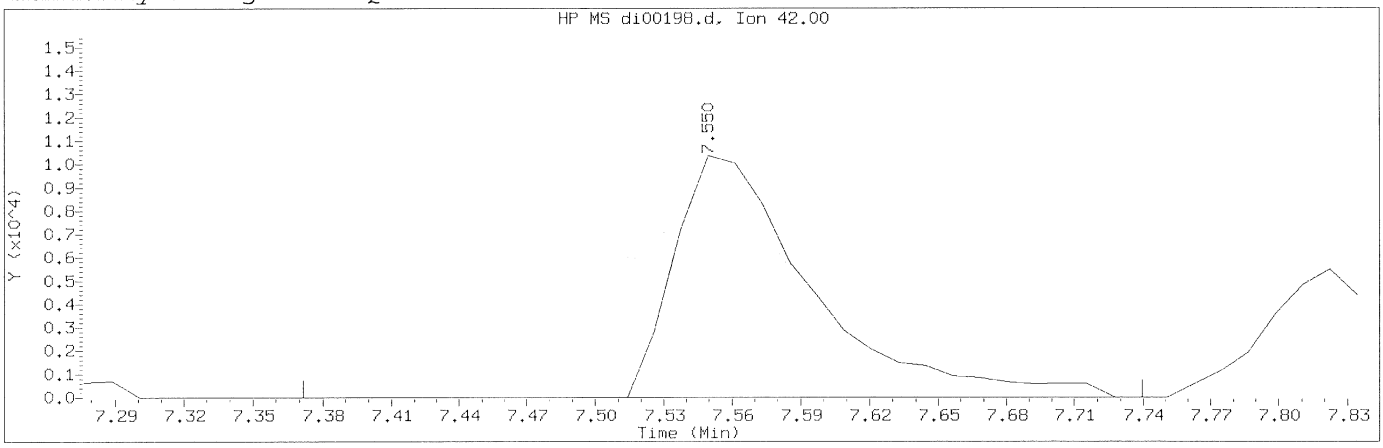
Compound Number	: 29		
Compound Name	: Methyl t-Butyl Ether		
Scan Number	: 348		
Retention Time (minutes)	: 5.202		
Quant Ion	: 73.00		
Area	: 189640		
Concentration (ppb(v))	: 1.7088		
Integration start scan	: 340	Integration stop scan:	353
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

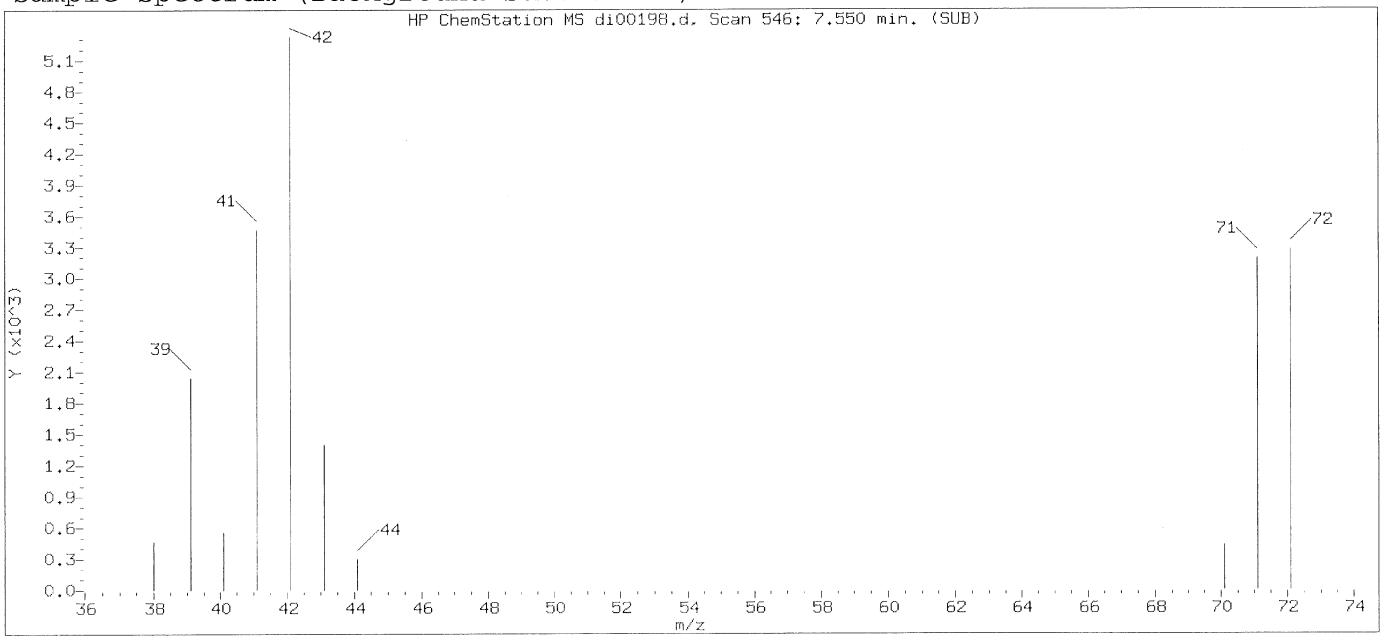
Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 546
Retention Time (minutes): 7.550
Quant Ion : 42.00
Area (flag) : 43359M
Concentration (ppb(v)) : 1.1008
Integration start scan : 530 Integration stop scan: 561
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

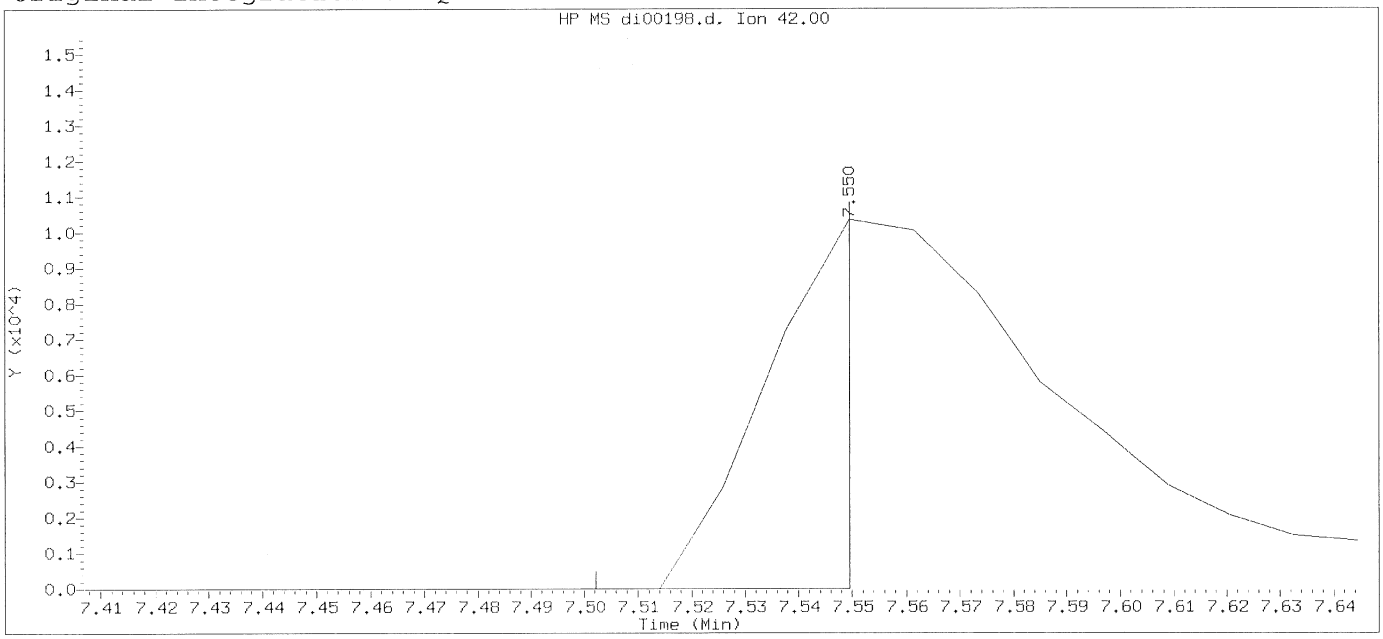
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

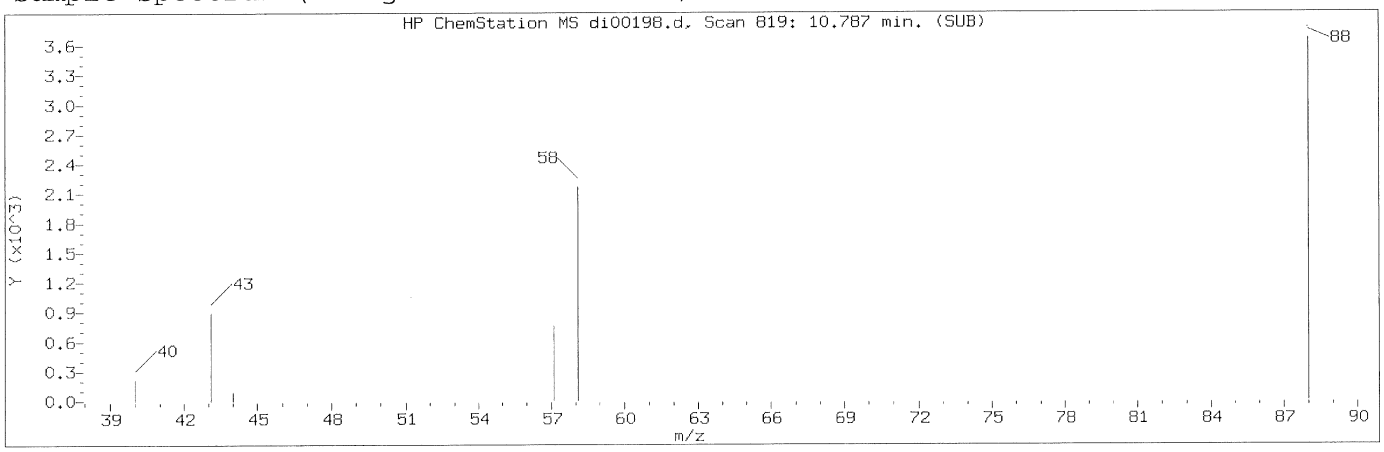
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

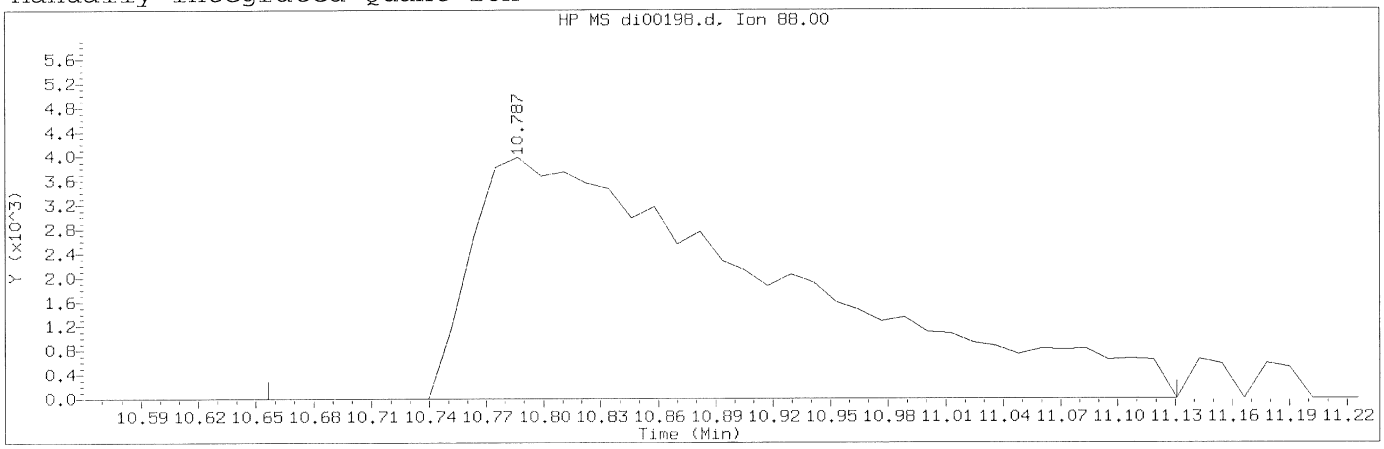
Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 546
Retention Time (minutes): 7.550
Quant Ion : 42.00
Area : 10859
Concentration (ppb(v)) : 0.4289
Integration start scan : 541 Integration stop scan: 545
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 819
Retention Time (minutes): 10.787
Quant Ion : 88.00
Area (flag) : 44553M
Concentration (ppb(v)) : 1.0704
Integration start scan : 807 Integration stop scan: 847
Y at integration start : 0 Y at integration end: 0

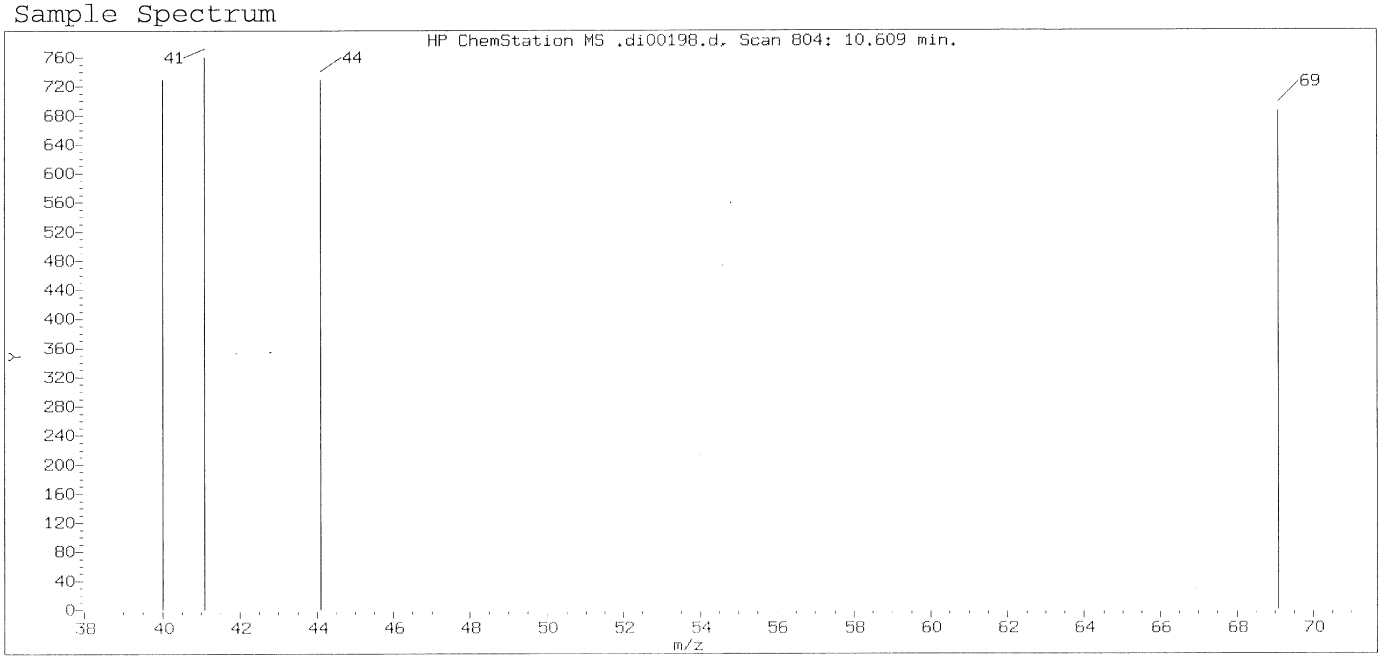
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

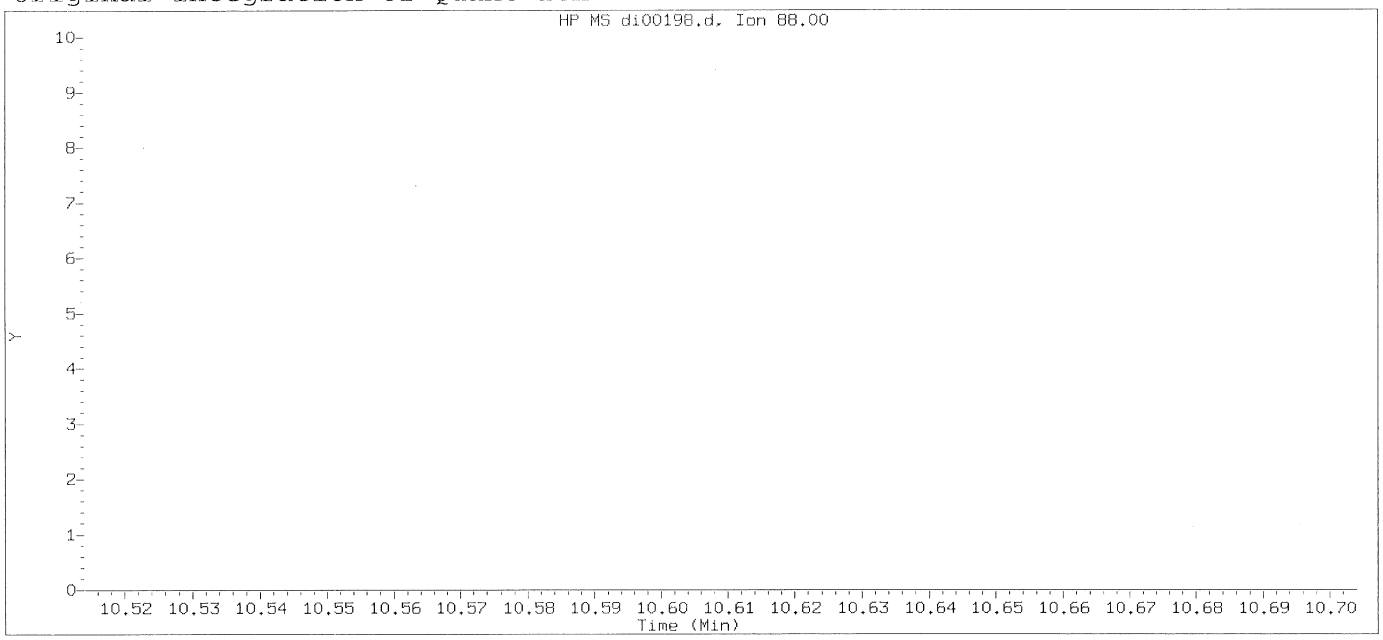
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

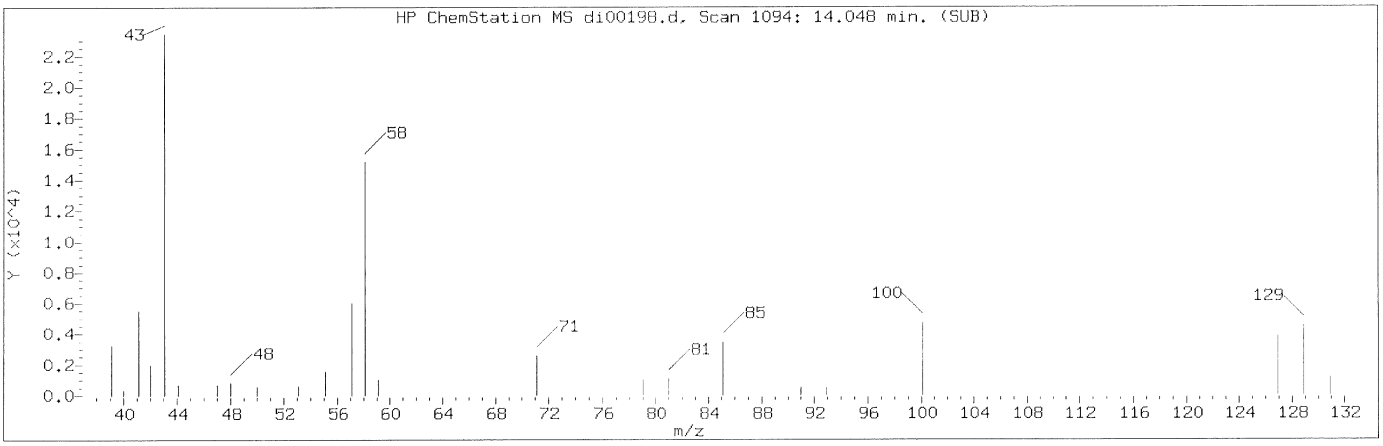
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

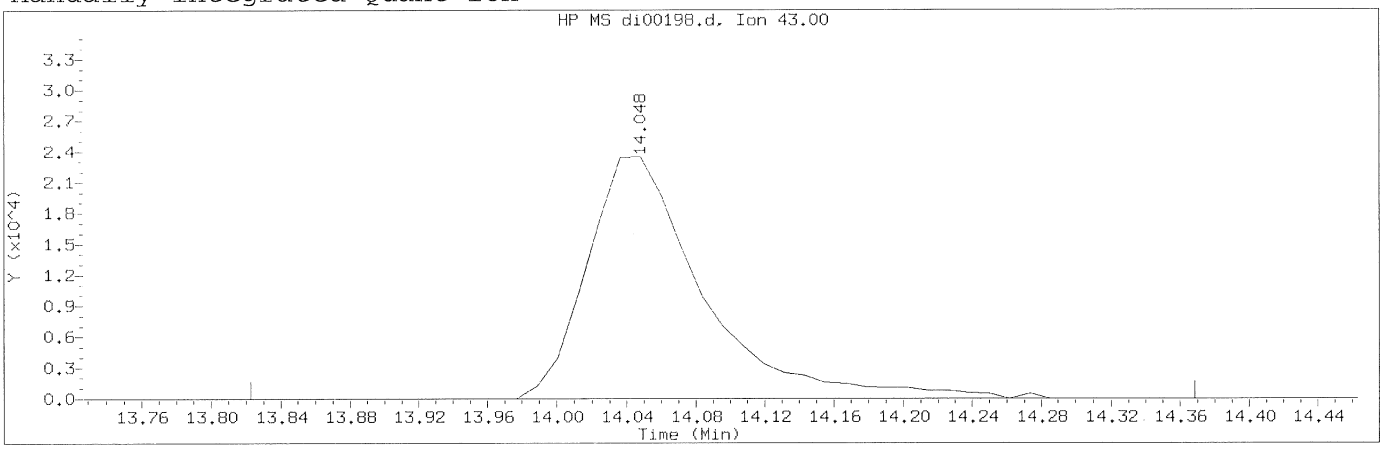
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.609
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1094
Retention Time (minutes): 14.048
Quant Ion : 43.00
Area (flag) : 109398M
Concentration (ppb(v)) : 1.2137
Integration start scan : 1074 Integration stop scan: 1120
Y at integration start : 0 Y at integration end: 0

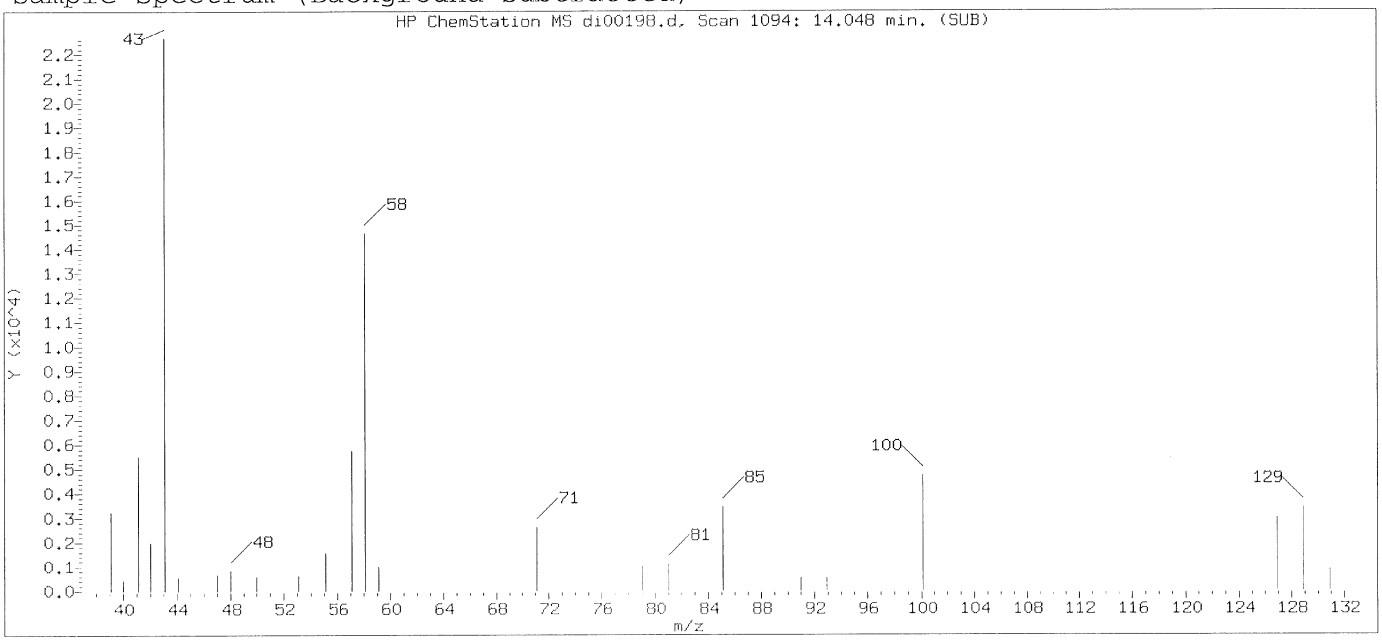
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

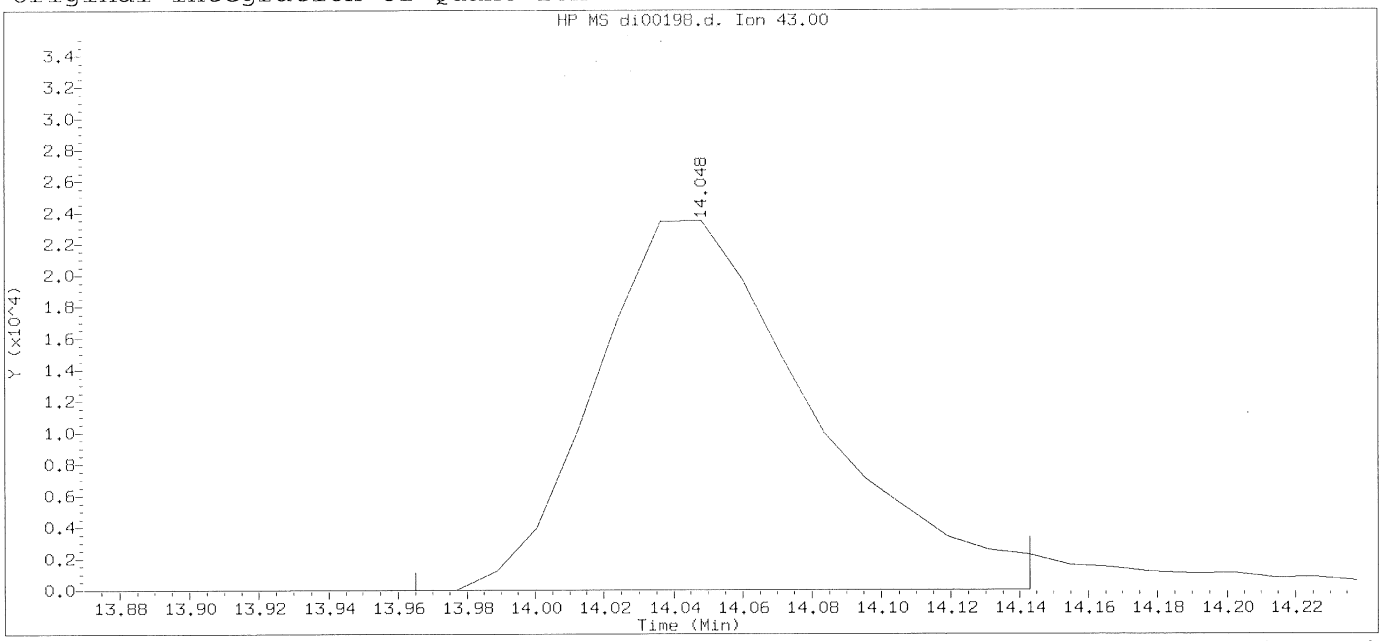
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



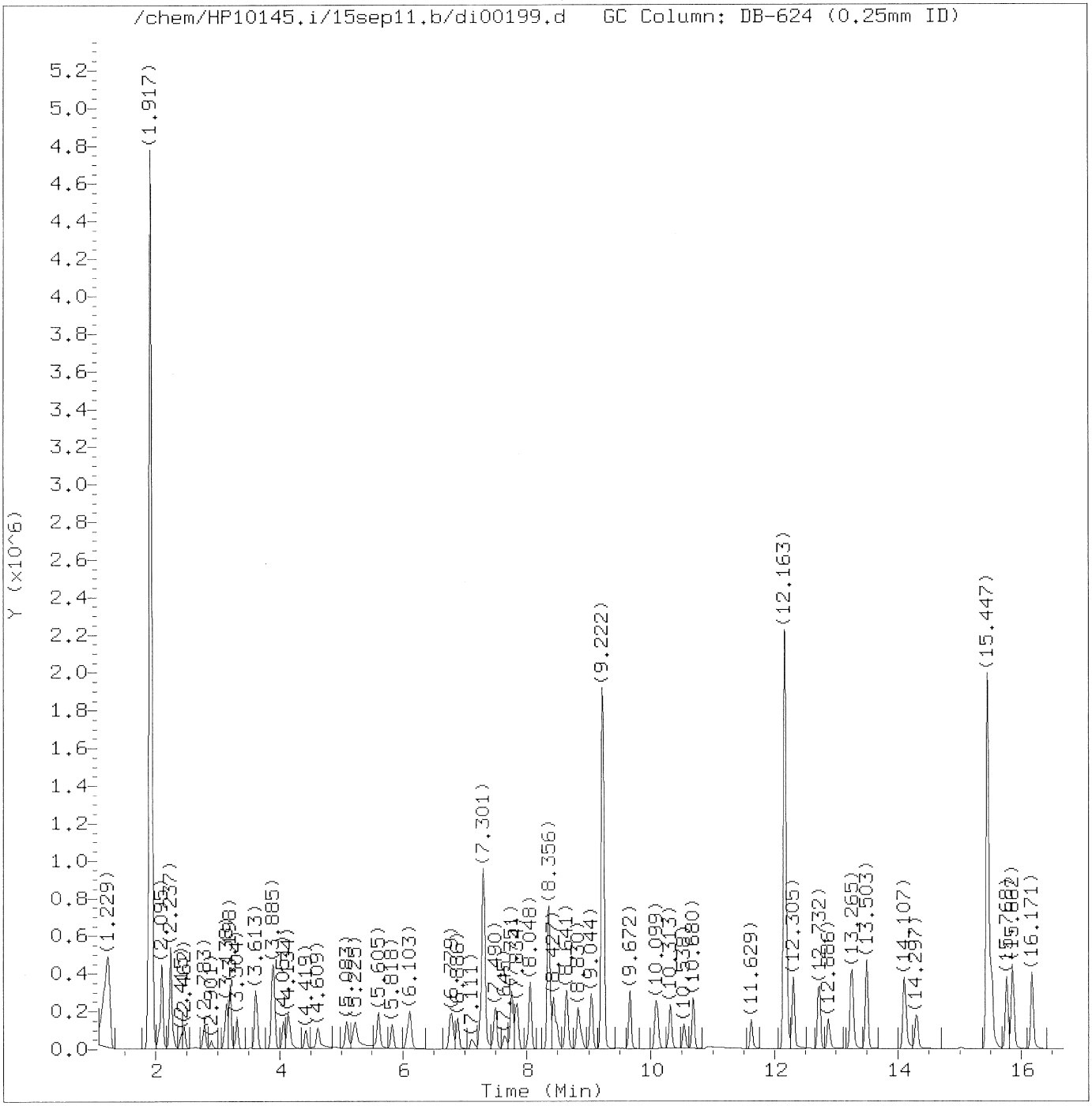
Data File: /chem/HP10145.i/15sep11.b/di00198.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:09 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 22:50 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 68
Compound Name	: 2-Hexanone
Scan Number	: 1094
Retention Time (minutes)	: 14.048
Quant Ion	: 43.00
Area	: 101845
Concentration (ppb(v))	: 1.4319
Integration start scan	: 1086 Integration stop scan: 1101
Y at integration start	: 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

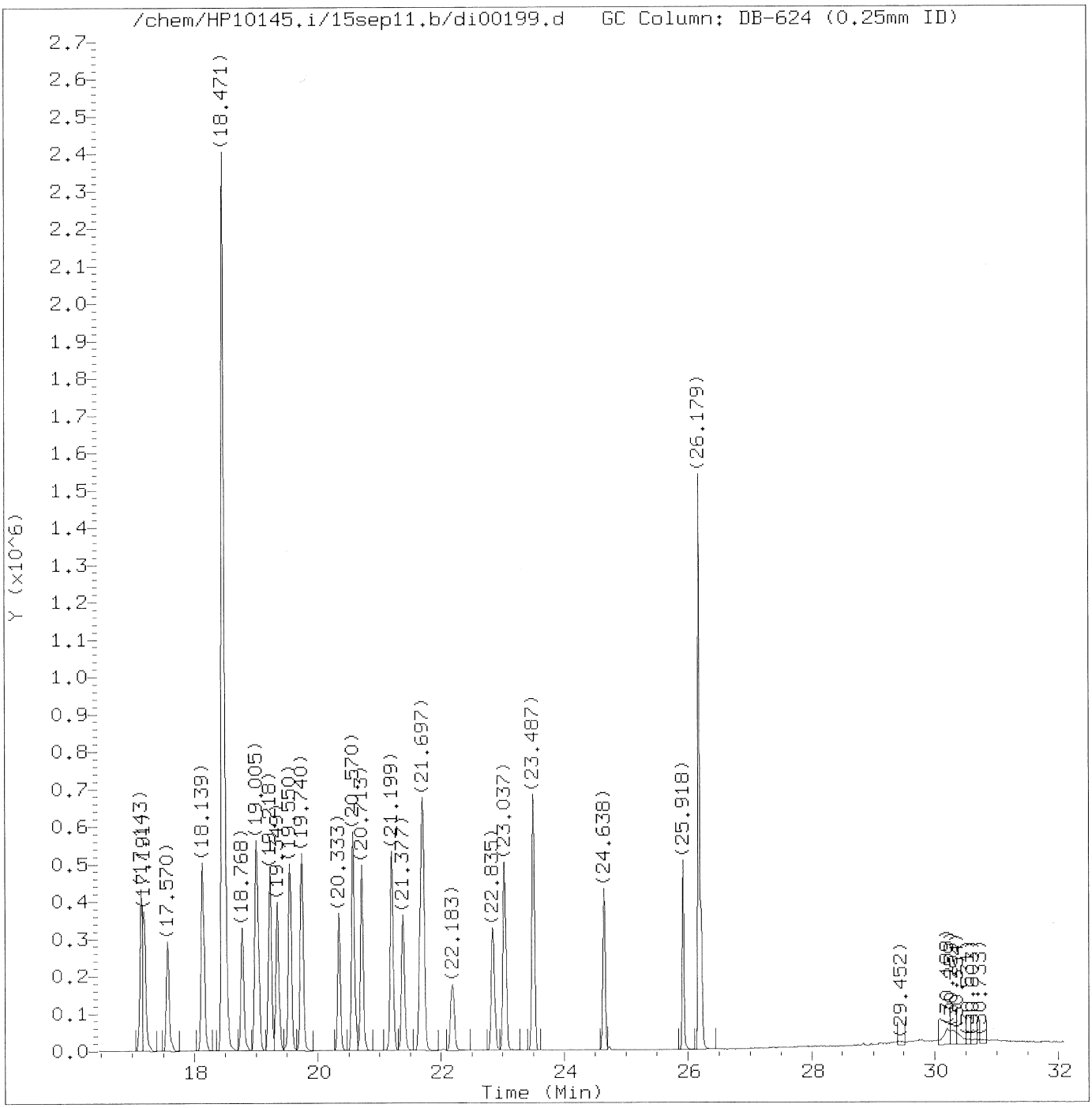
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.059	41	60521	2.569
2) Dichlorodifluoromethane	(1)	2.095	85	490907	2.178
3) Chlorodifluoromethane	(1)	2.107	51	168648	2.271
4) Freon 114	(1)	2.237	85	371076	2.071
5) Chloromethane	(1)	2.284	52	30264	2.204
6) Vinyl Chloride	(1)	2.415	62	118578	2.119
7) 1,3-Butadiene	(1)	2.462	54	69022	2.082
8) Bromomethane	(1)	2.783	94	133426	2.037
9) Chloroethane	(1)	2.901	64	59177	1.944
10) Bromoethene	(1)	3.115	106	124119	2.145
11) Dichlorofluoromethane	(1)	3.138	67	286805	2.152
12) Trichlorofluoromethane	(1)	3.198	101	441902	2.085
13) Pentane	(1)	3.304	43	136686	2.120
15) Freon123a	(1)	3.613	67	249838	2.217
16) Acrolein	(1)	3.838	56	19368M	1.431
17) 1,1-Dichloroethene	(1)	3.862	61	182378	2.032
18) Freon 113	(1)	3.897	103	177597	1.966
14) Ethanol	(1)	3.909	45	18612M	1.095
20) Methyl Iodide	(1)	4.051	142	267368	2.112
19) Acetone	(1)	4.134	43	132995M	2.113
21) Carbon Disulfide	(1)	4.134	76	384490	2.102
24) 3-Chloropropene	(1)	4.419	76	55326	2.136
23) Acetonitrile	(1)	4.419	40	17210	1.614
25) Methylene Chloride	(1)	4.609	84	106882	2.225
22) Isopropanol	(1)	4.692	45	133345M	1.842
28) trans-1,2-Dichloroethene	(1)	5.071	61	146938	2.135
27) Acrylonitrile	(1)	5.119	53	56397M	2.126
29) Methyl t-Butyl Ether	(1)	5.225	73	335206M	2.181
26) tert-Butyl Alcohol	(1)	5.332	59	237547M	2.185
30) Hexane	(1)	5.605	57	158995	2.134
31) 1,1-Dichloroethane	(1)	5.818	63	210476	2.012
32) Vinyl Acetate	(1)	6.055	86	16743	1.349
33) Di-Isopropyl Ether	(1)	6.103	45	257617M	2.001
36) 1,2-Dichloroethene (total)	(1)		61	299176	4.206
34) Ethyl Tert-Butyl Ether	(1)	6.779	59	328033M	1.924
35) cis-1,2-Dichloroethene	(1)	6.886	61	152238	2.071
37) 2-Butanone	(1)	7.111	72	52313	1.894
38) Ethyl Acetate	(1)	7.241	70	34072	2.025

M = Compound was manually integrated.

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on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.241	55	140051M	1.957
40)*Bromochloromethane	(1)	7.301	130	652838	10.000
42) Chloroform	(1)	7.490	83	296203	2.006
41) Tetrahydrofuran	(1)	7.645	42	69857M	1.795
43) 1,1,1-Trichloroethane	(1)	7.751	97	359545	2.066
44) Cyclohexane	(1)	7.834	56	158625	2.044
45) Carbon Tetrachloride	(1)	8.048	117	380183	2.082
46) Benzene	(2)	8.439	78	409316	2.098
47) 1,2-Dichloroethane	(2)	8.486	62	185469	2.047
48) Isooctane	(2)	8.641	57	510046	2.110
49) Tert-Amyl Methyl Ether	(2)	8.830	73	382608M	2.051
50) Heptane	(2)	9.044	43	147774	2.104
51)*1,4-Difluorobenzene	(2)	9.222	114	2575394	10.000
52) Trichloroethene	(2)	9.672	130	167254	1.997
54) 1,2-Dichloropropane	(2)	10.087	63	118789	2.014
53) Ethyl Acrylate	(2)	10.111	55	182204M	2.017
55) Dibromomethane	(2)	10.313	174	173553	2.051
57) Methyl Methacrylate	(2)	10.538	69	110482	1.841
58) Bromodichloromethane	(2)	10.680	83	316597	2.017
56) 1,4-Dioxane	(2)	10.941	88	80780M	1.955
59) cis-1,3-Dichloropropene	(2)	11.629	75	167655	1.773
60) 4-Methyl-2-Pentanone	(2)	12.163	43	196601M	1.978
61) Toluene	(3)	12.305	91	497029	2.055
62) Octane	(3)	12.720	43	190640	2.007
63) trans-1,3-Dichloropropene	(3)	12.886	75	185738	1.852
64) 1,3-Dichloropropene (total)	(3)		75	353393	3.626
66) 1,1,2-Trichloroethane	(3)	13.254	97	169009	2.026
65) Ethyl Methacrylate	(3)	13.265	69	188732	1.793
67) Tetrachloroethene	(3)	13.503	166	278103	2.082
68) 2-Hexanone	(3)	14.096	43	181747M	1.976
69) Dibromochloromethane	(3)	14.107	127	222681	1.849
70) 1,2-Dibromoethane	(3)	14.297	107	237316	1.895
71)*Chlorobenzene-d5	(3)	15.447	117	2275692	10.000
72) Chlorobenzene	(3)	15.519	112	384948	2.031
73) 1,1,1,2-Tetrachloroethane	(3)	15.768	131	222113	2.046
74) Ethylbenzene	(3)	15.862	91	636644	2.015
75) m/p-Xylene	(3)	16.171	91	509420	1.859
76) o-Xylene	(3)	17.143	91	523028	2.014

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

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Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.191	104	365656	1.928
77) Xylene (total)	(3)		91	1032448	3.873
79) Bromoform	(3)	17.570	173	296088	1.860
80) Cumene	(3)	18.139	105	712507	1.972
81) Bromobenzene	(3)	18.780	156	219653	2.006
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	376977	2.046
83) 1,2,3-Trichloropropane	(3)	19.017	110	116688	1.951
84) n-Propylbenzene	(3)	19.218	120	183289	1.881
85) 2-Chlorotoluene	(3)	19.349	126	155637	1.947
86) 4-Ethyltoluene	(3)	19.550	105	698508	1.916
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	651198	1.993
88) Alpha Methyl Styrene	(3)	20.333	118	241774	1.816
89) tert-Butylbenzene	(3)	20.570	119	618074	1.952
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	630532	1.955
91) sec-Butylbenzene	(3)	21.199	105	873376	1.951
92) 1,3-Dichlorobenzene	(3)	21.377	146	379073	1.997
93) 1,4-Dichlorobenzene	(3)	21.673	146	366302	1.944
94) p-Isopropyltoluene	(3)	21.709	119	727423	1.948
95) Benzyl Chloride	(3)	22.183	91	356150	1.521
96) 1,2-Dichlorobenzene	(3)	22.847	146	345092	1.937
97) n-Butylbenzene	(3)	23.037	91	638502	1.943
98) Hexachloroethane	(3)	23.487	117	248317	2.054
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	187505	1.804
100) 1,2,4-Trichlorobenzene	(3)	25.918	180	209114	1.616
101) Hexachlorobutadiene	(3)	26.179	225	382083	1.834
102) Naphthalene	(3)	26.215	128	336989	1.532

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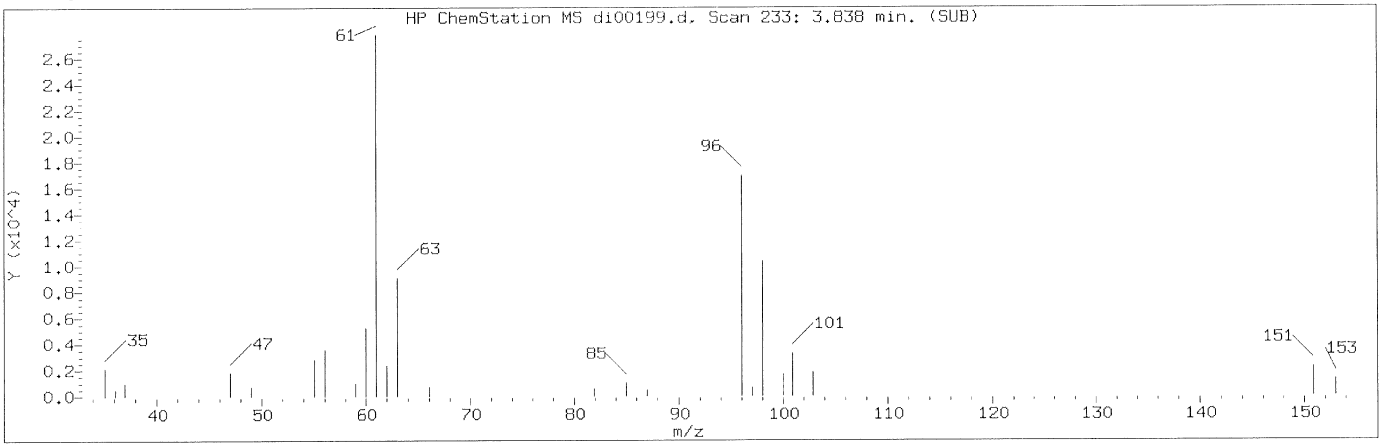
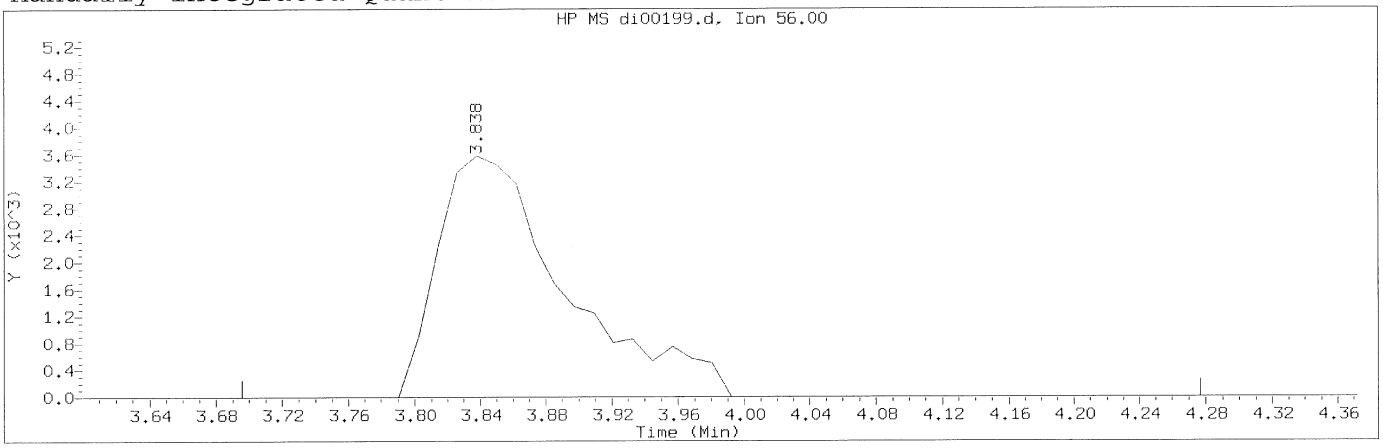
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

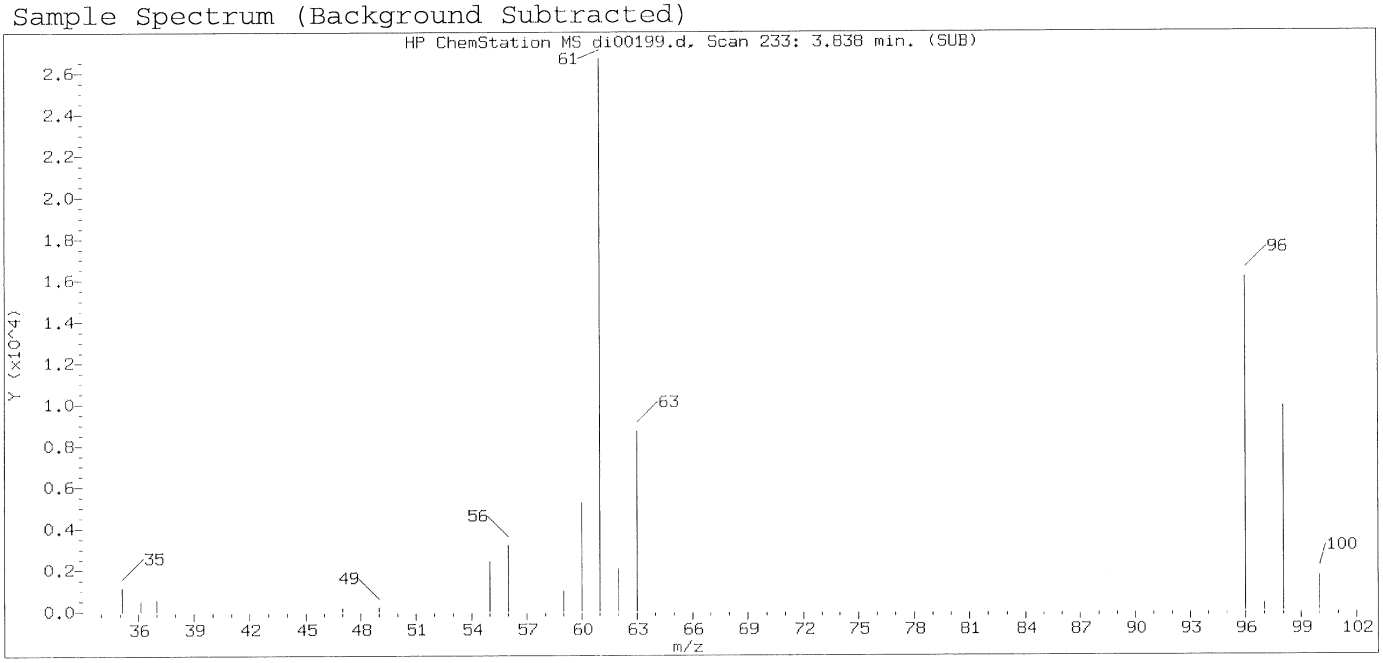
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 233		
Retention Time (minutes)	: 3.838		
Quant Ion	: 56.00		
Area (flag)	: 19368M		
Concentration (ppb(v))	: 1.4307		
Integration start scan	: 220	Integration stop scan:	269
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

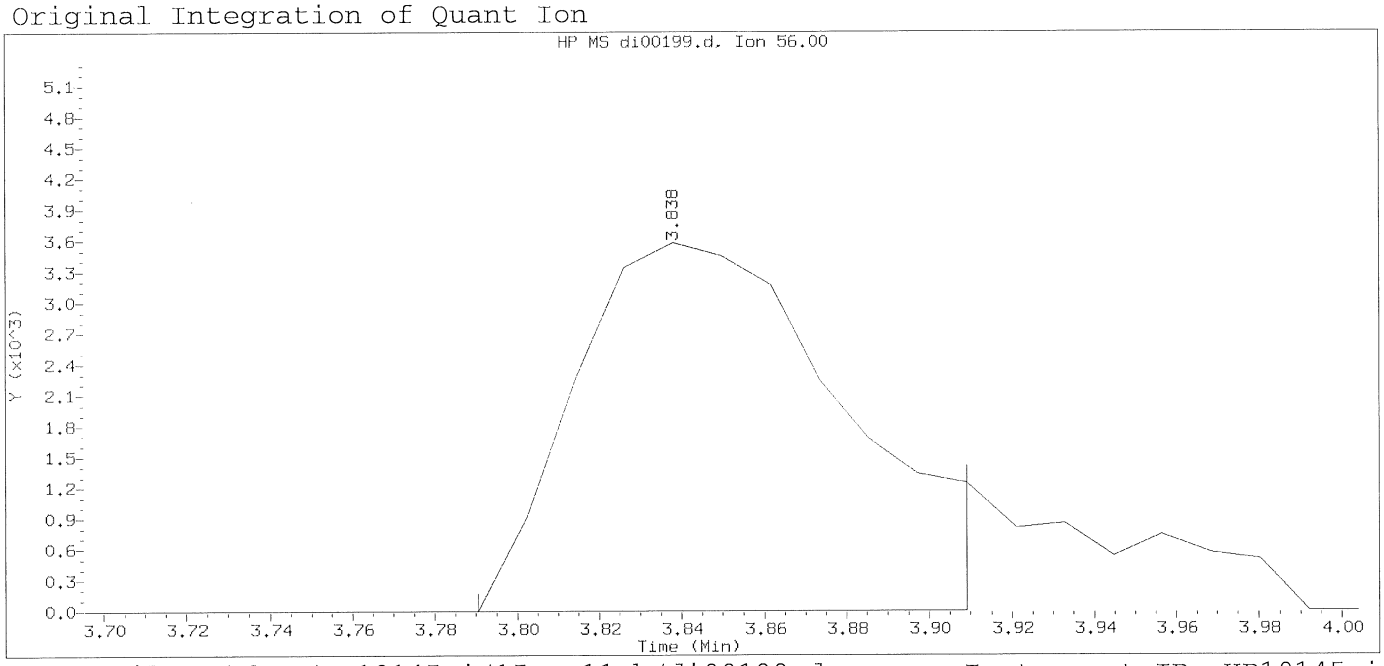
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

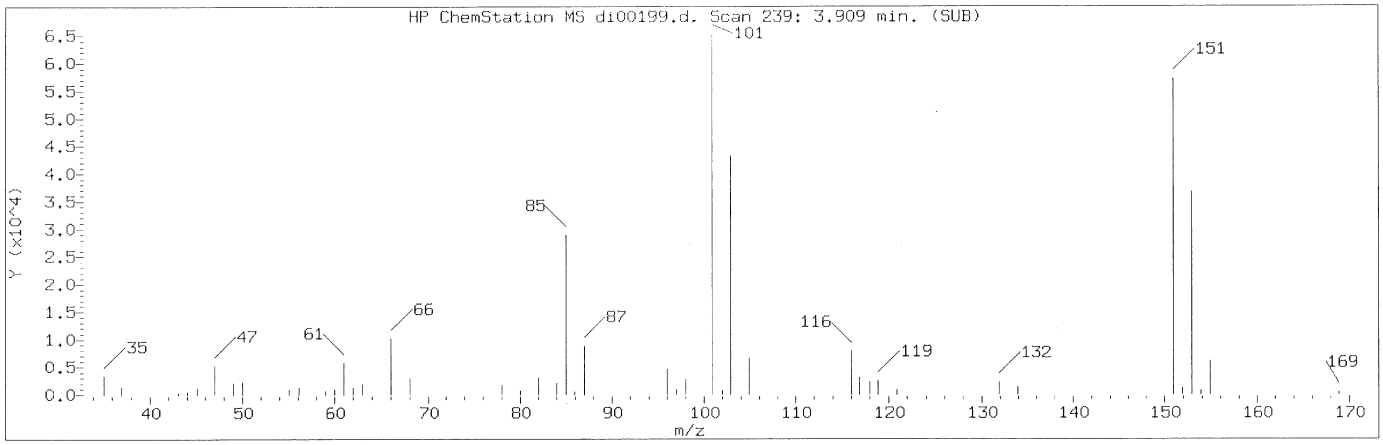
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

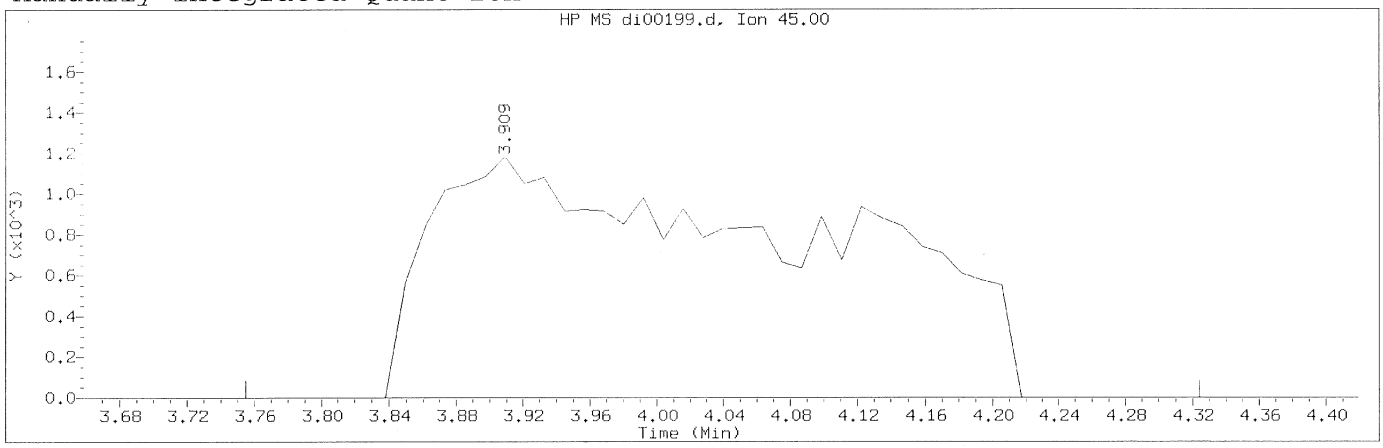
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 233		
Retention Time (minutes)	: 3.838		
Quant Ion	: 56.00		
Area	: 16068		
Concentration (ppb(v))	: 1.7402		
Integration start scan	: 228	Integration stop scan:	238
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

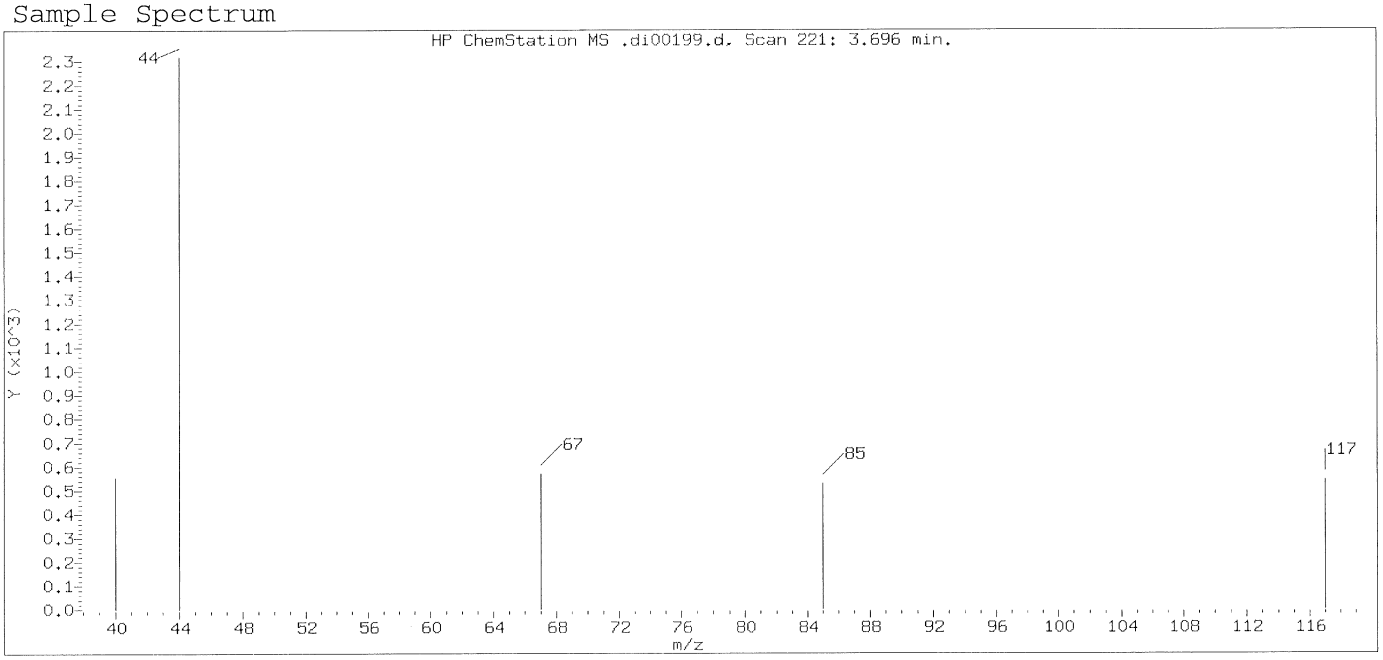
Compound Number	: 14		
Compound Name	: Ethanol		
Scan Number	: 239		
Retention Time (minutes)	: 3.909		
Quant Ion	: 45.00		
Area (flag)	: 18612M		
Concentration (ppb(v))	: 1.0953		
Integration start scan	: 225	Integration stop scan:	273
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

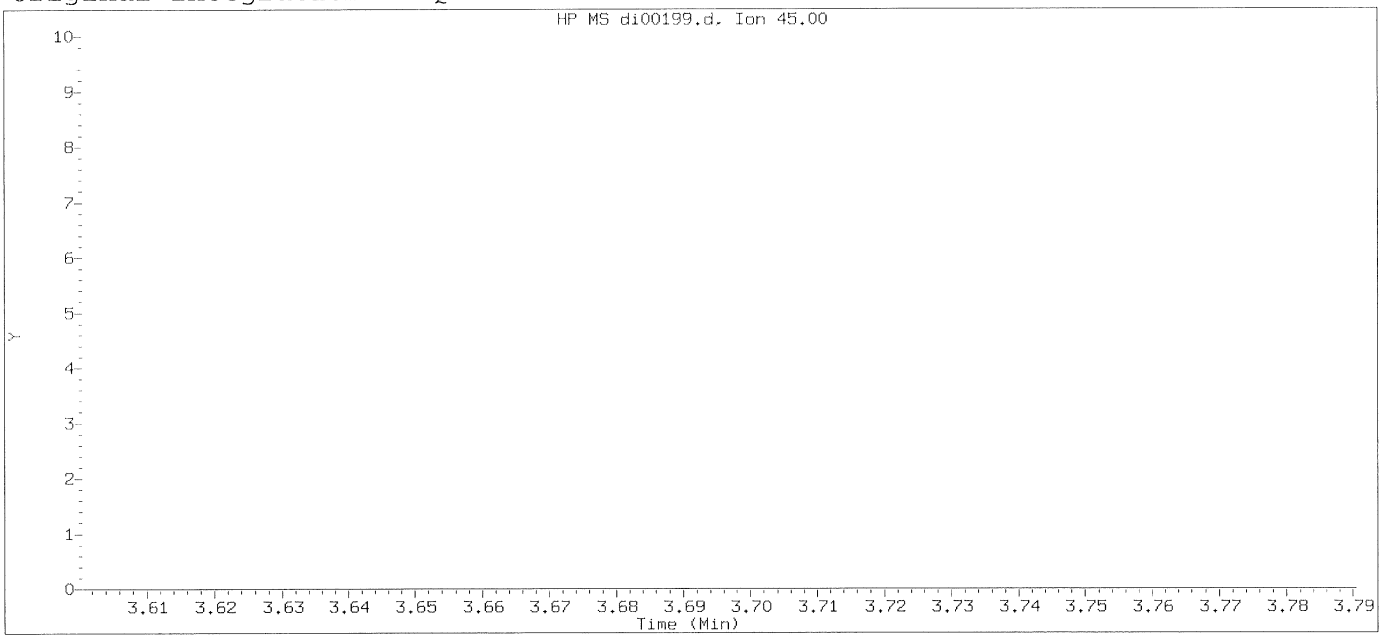
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

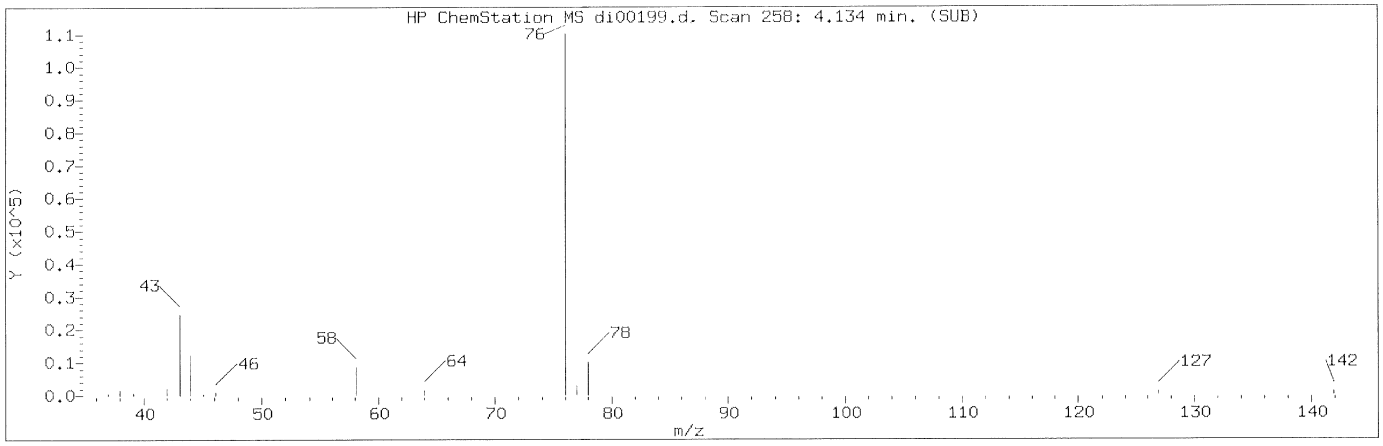
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

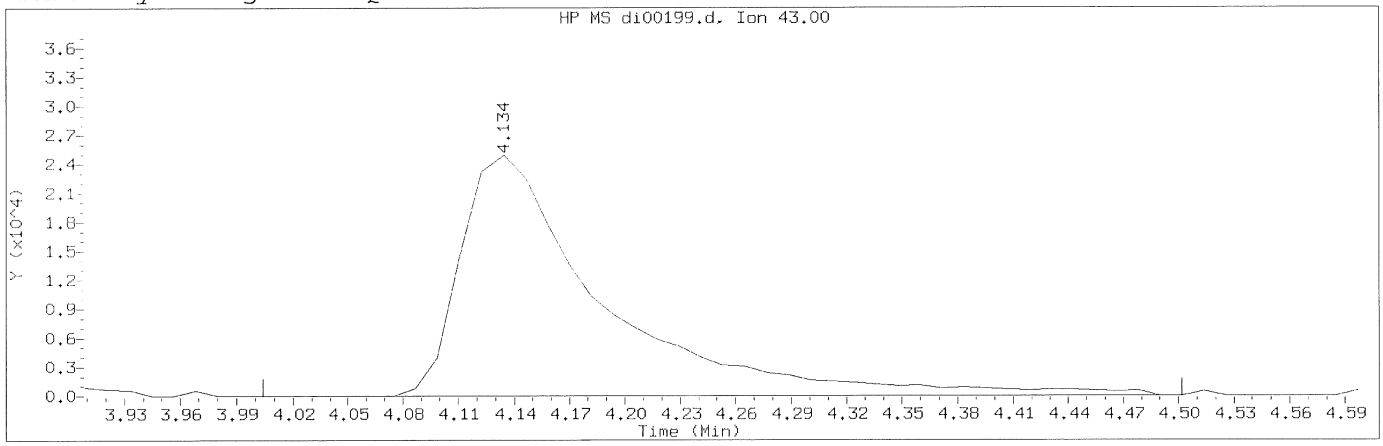
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.696
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

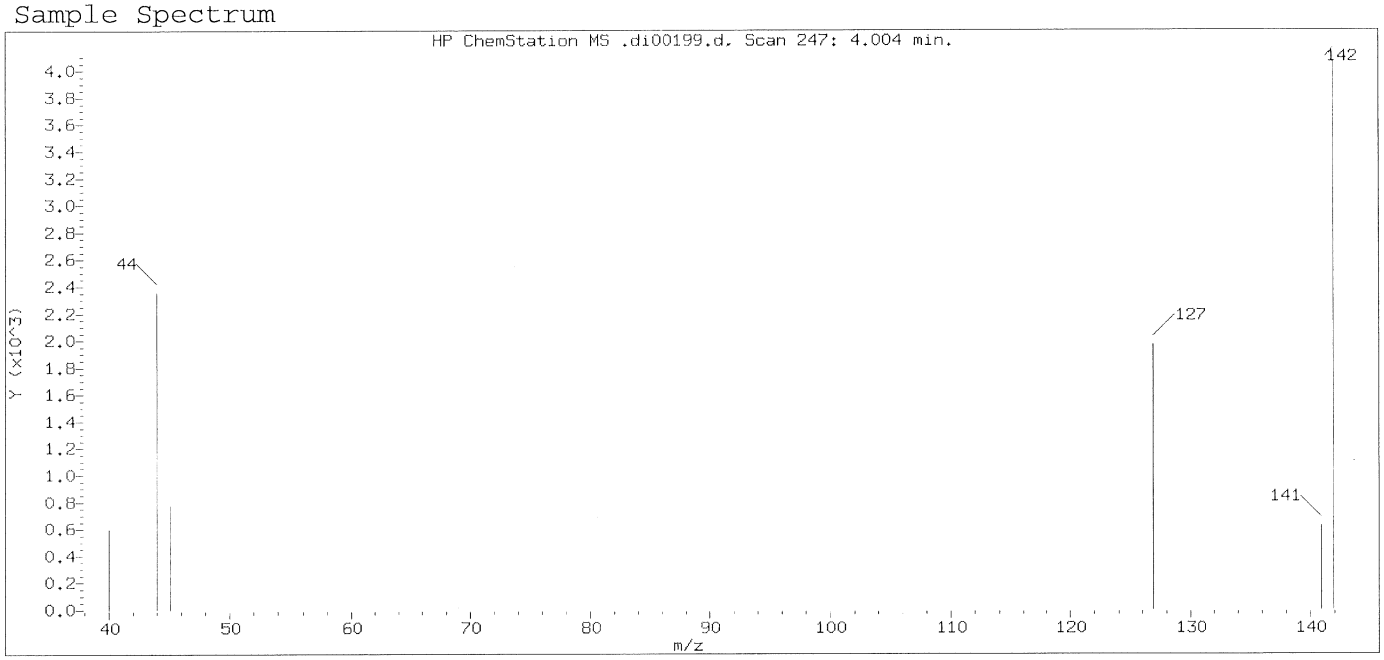
Compound Number : 19
Compound Name : Acetone
Scan Number : 258
Retention Time (minutes): 4.134
Quant Ion : 43.00
Area (flag) : 132995M
Concentration (ppb(v)) : 2.1129
Integration start scan : 246 Integration stop scan: 288
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

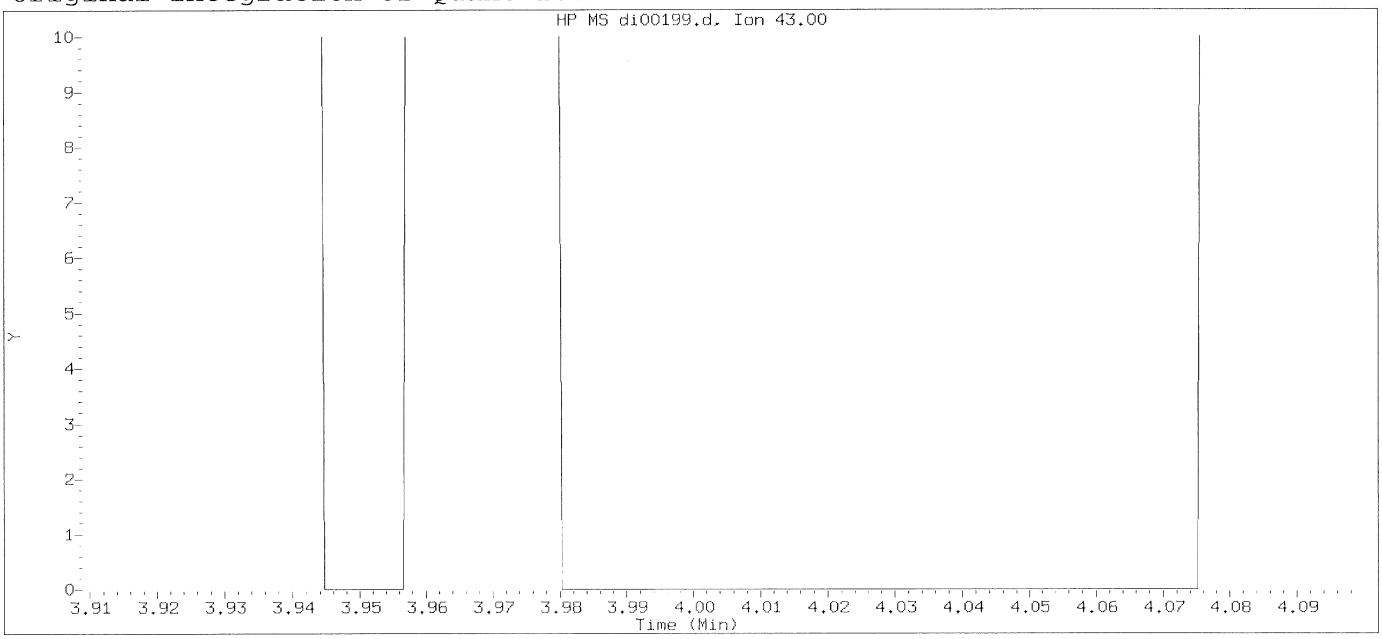
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

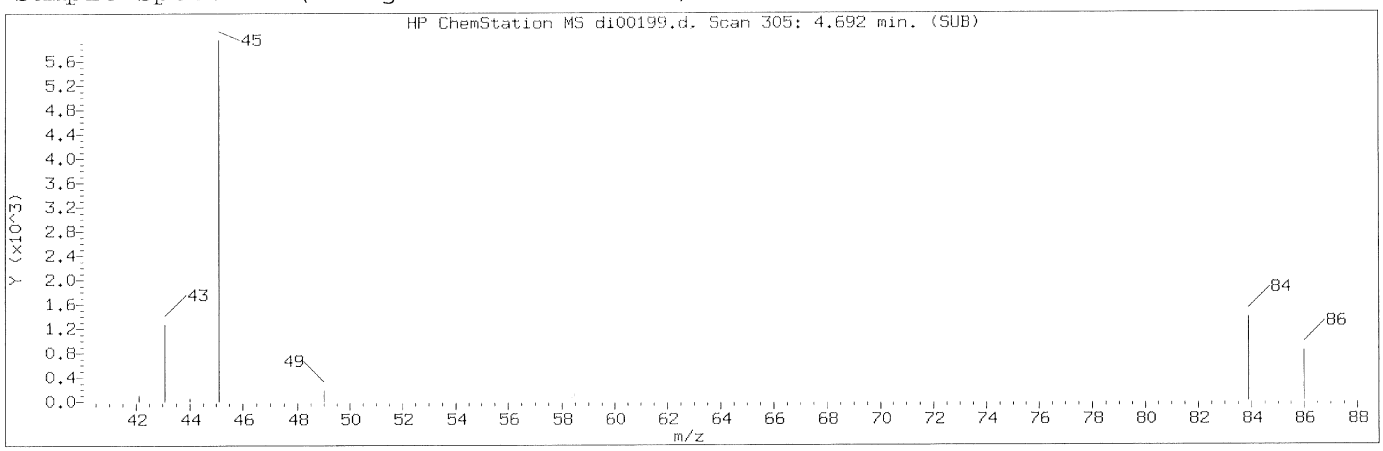
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

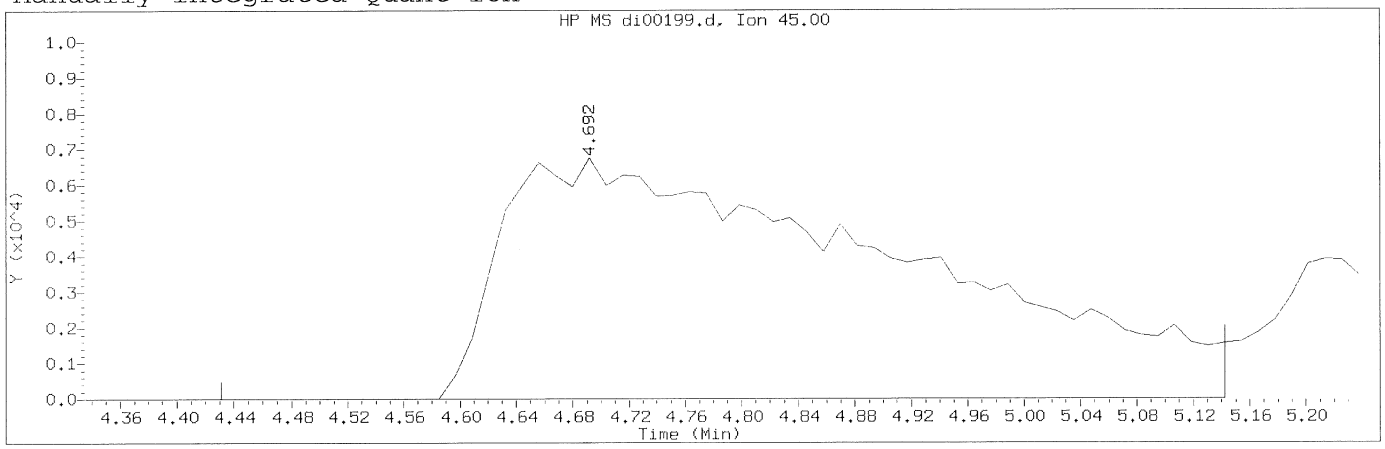
Compound Number : 19
Compound Name : Acetone
Expected RT (minutes) : 4.004
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 22
Compound Name : Isopropanol
Scan Number : 305
Retention Time (minutes): 4.692
Quant Ion : 45.00
Area (flag) : 133345M
Concentration (ppb(v)) : 1.8424
Integration start scan : 282 Integration stop scan: 342
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

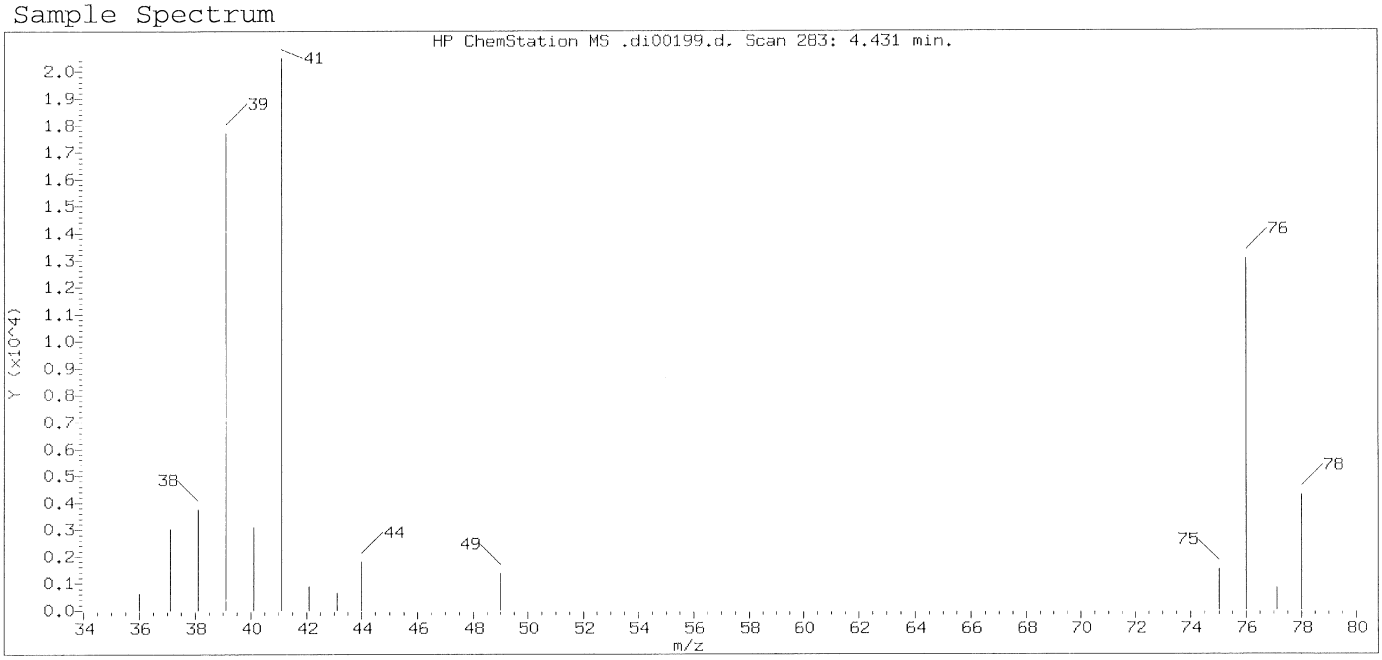
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

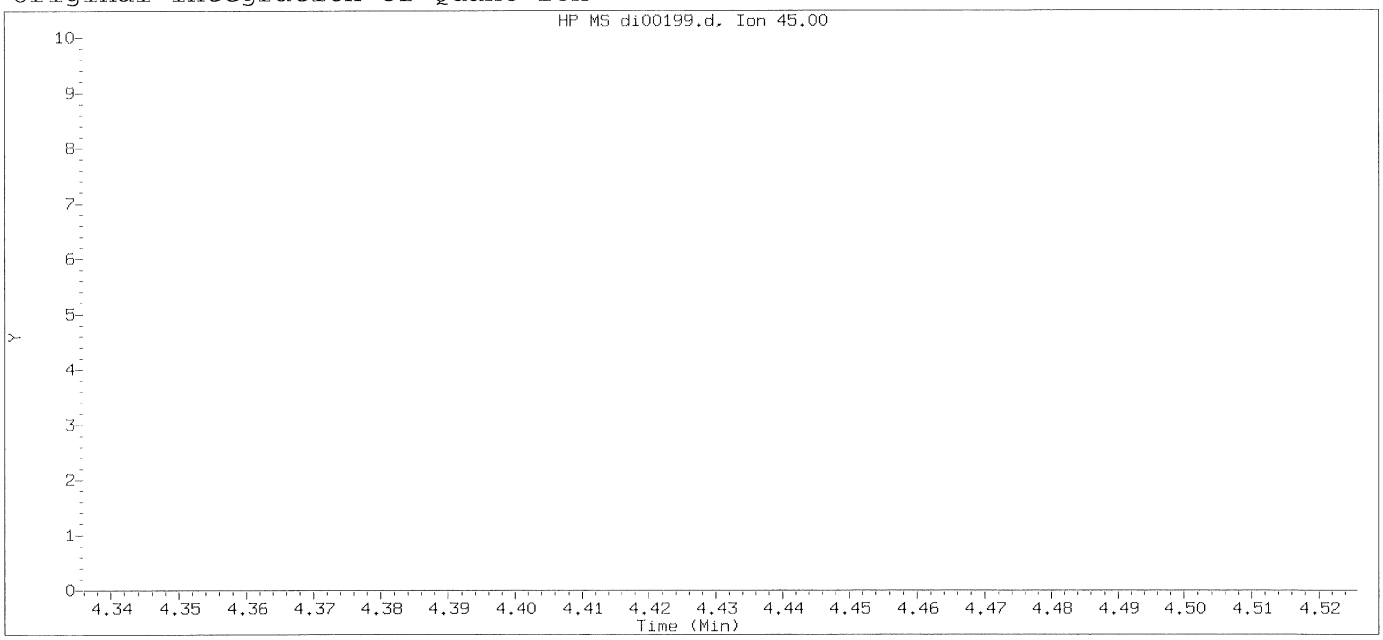
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

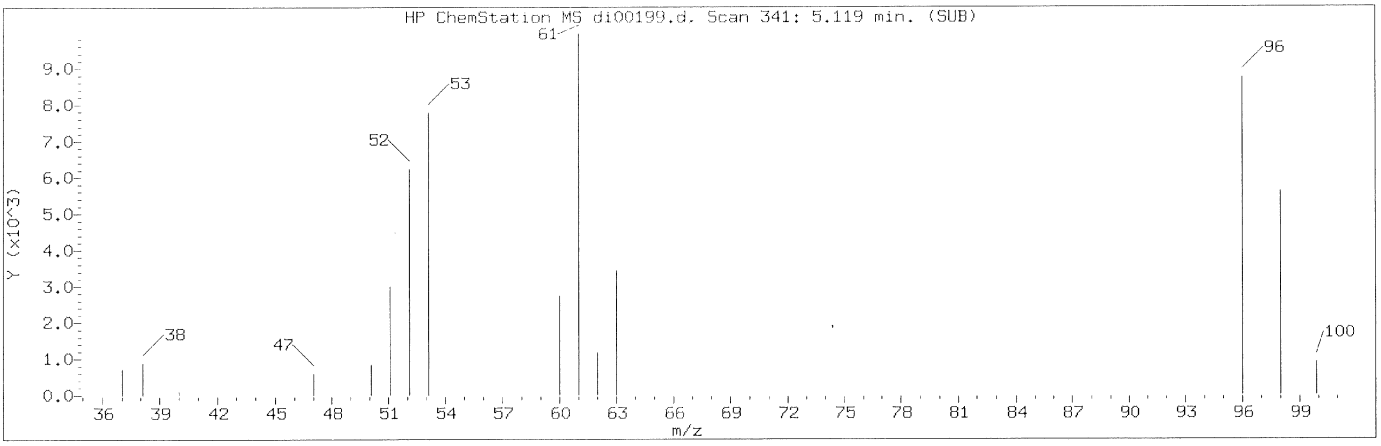
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

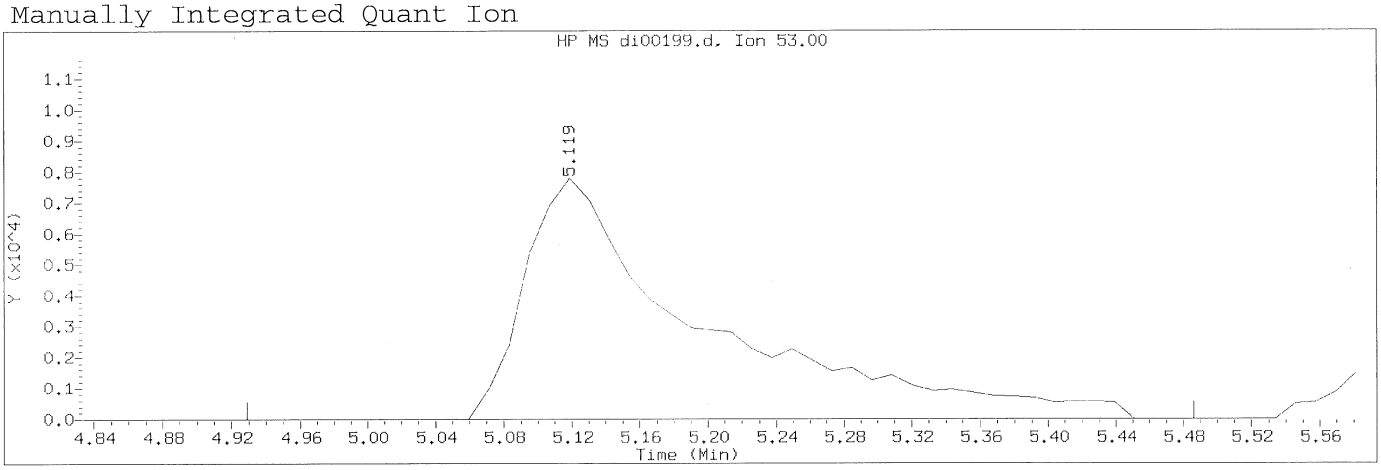
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.431
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 341
Retention Time (minutes): 5.119
Quant Ion : 53.00
Area (flag) : 56397M
Concentration (ppb(v)) : 2.1262
Integration start scan : 324 Integration stop scan: 371
Y at integration start : 0 Y at integration end: 0

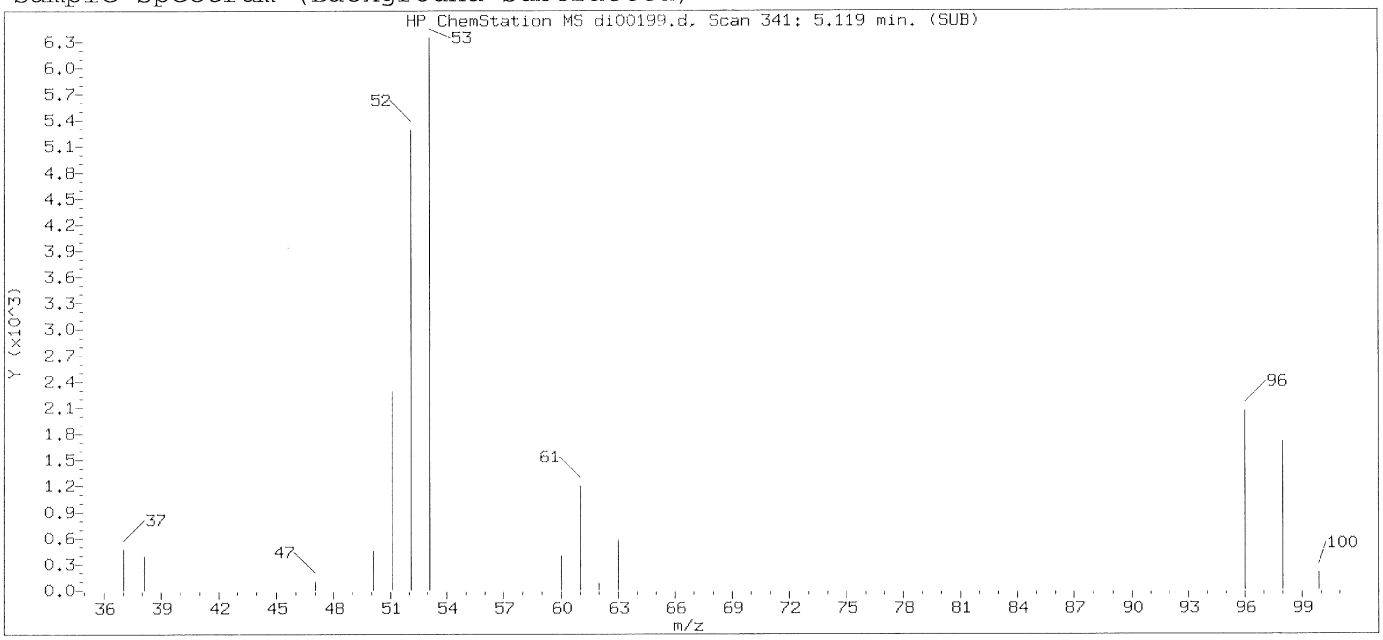
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

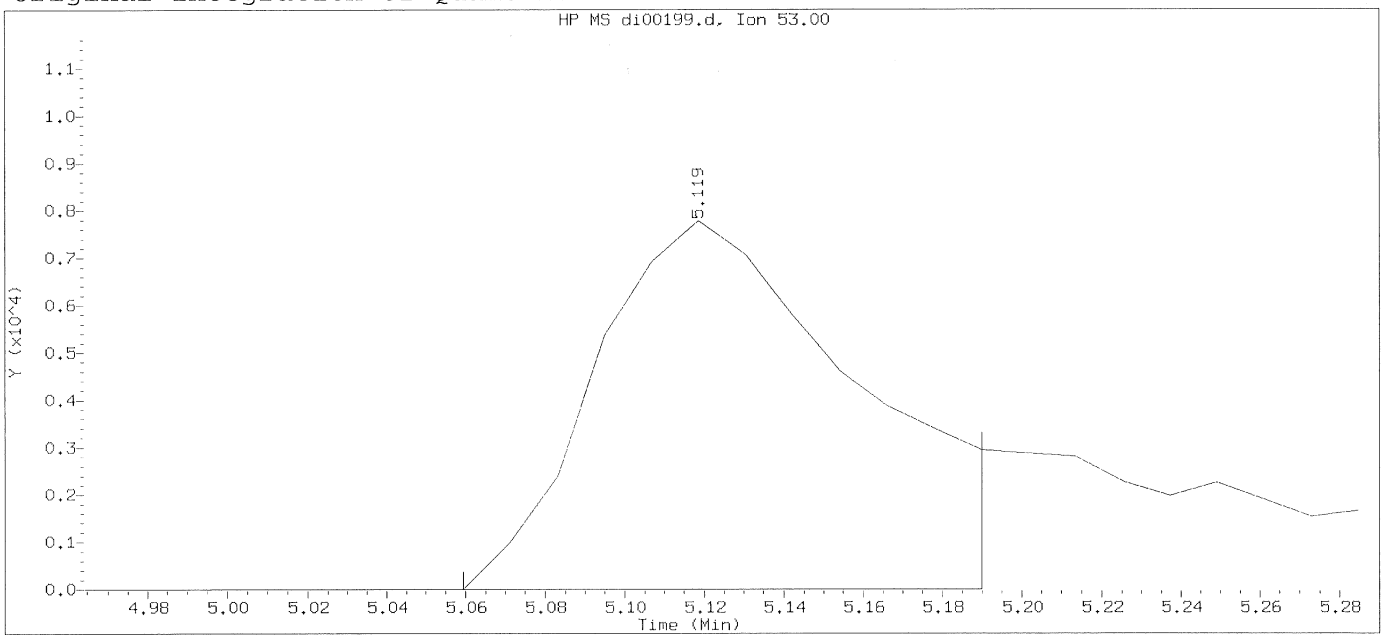
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

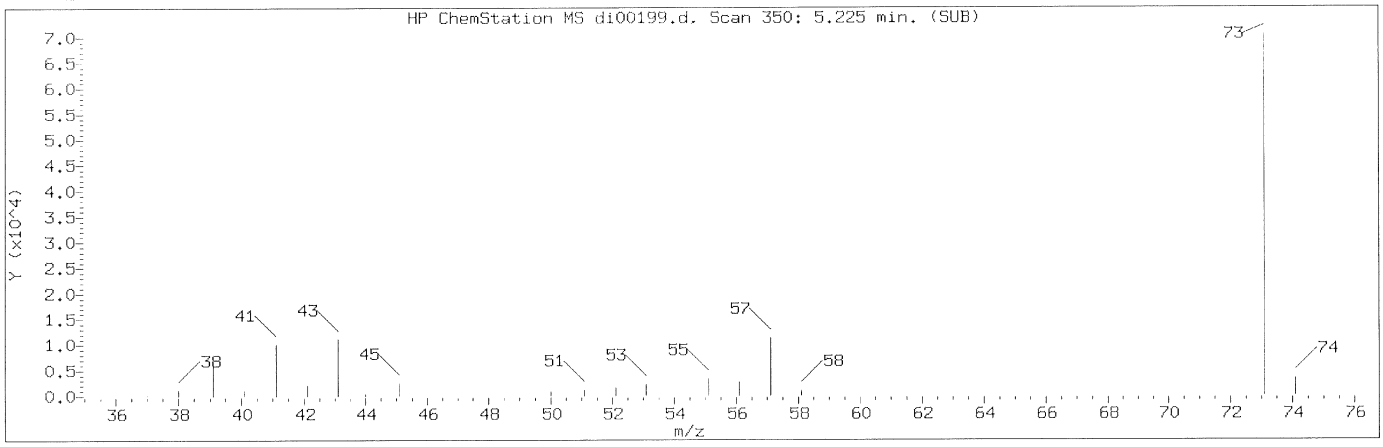
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

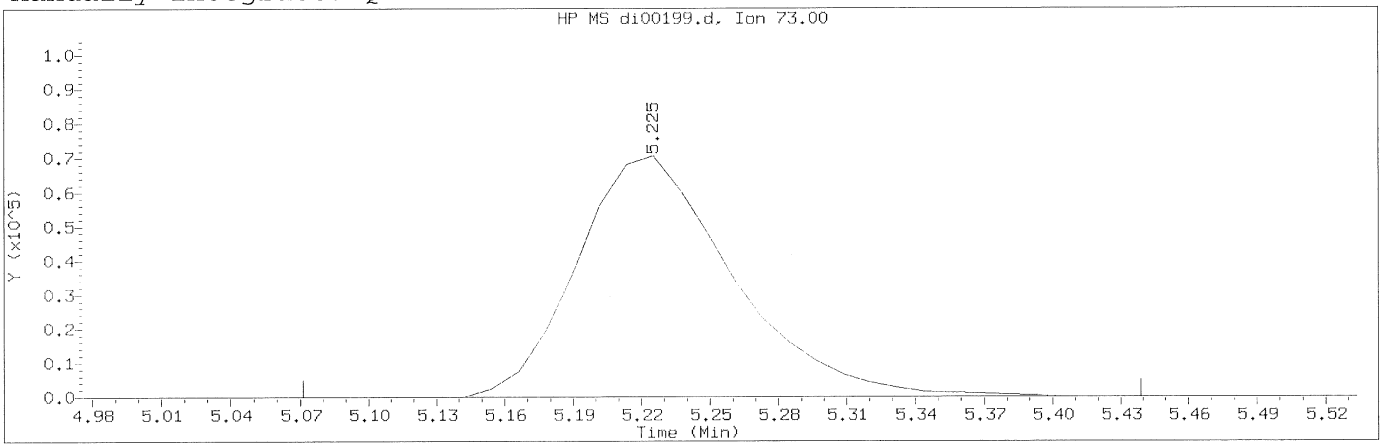
Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 341		
Retention Time (minutes)	: 5.119		
Quant Ion	: 53.00		
Area	: 35325		
Concentration (ppb(v))	: 1.8187		
Integration start scan	: 335	Integration stop scan:	346
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Scan Number : 350
Retention Time (minutes): 5.225
Quant Ion : 73.00
Area (flag) : 335206M
Concentration (ppb(v)) : 2.1808
Integration start scan : 336 Integration stop scan: 367
Y at integration start : 0 Y at integration end: 0

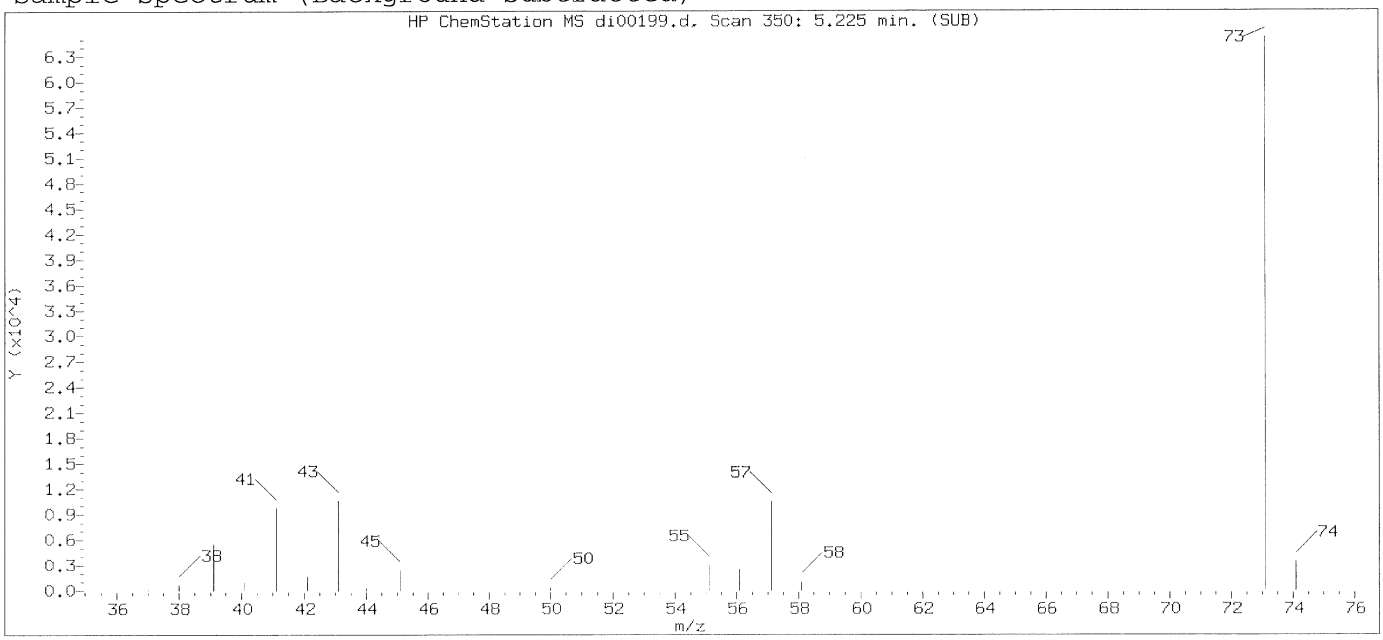
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

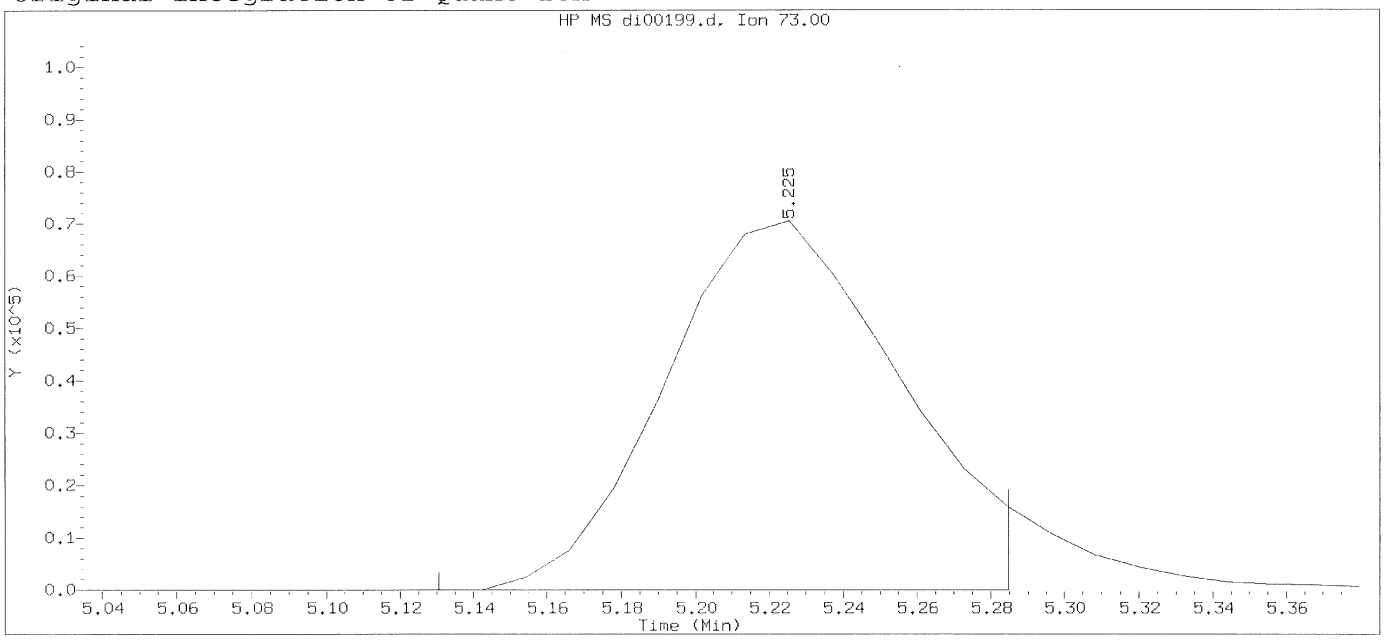
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

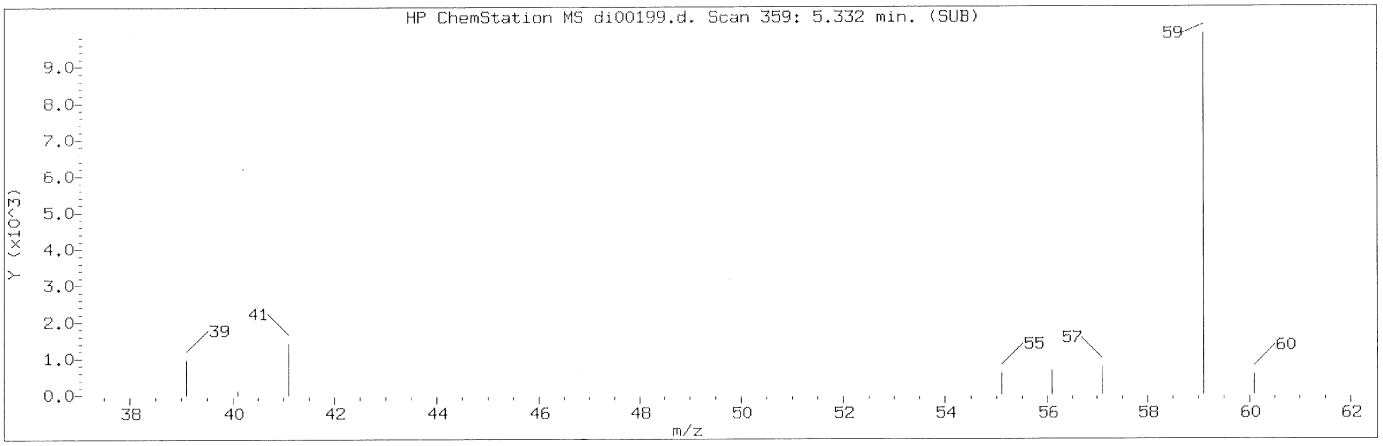
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

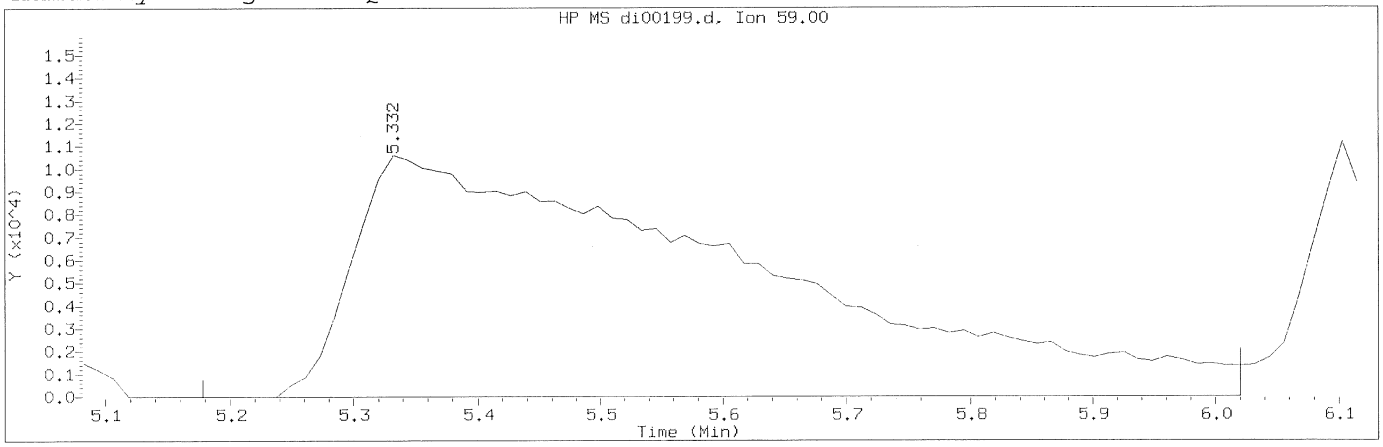
Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Scan Number : 350
Retention Time (minutes): 5.225
Quant Ion : 73.00
Area : 308625
Concentration (ppb(v)) : 2.8147
Integration start scan : 341 Integration stop scan: 354
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 359		
Retention Time (minutes)	: 5.332		
Quant Ion	: 59.00		
Area (flag)	: 237547M		
Concentration (ppb(v))	: 2.1854		
Integration start scan	: 345	Integration stop scan:	416
Y at integration start	: 0	Y at integration end:	0

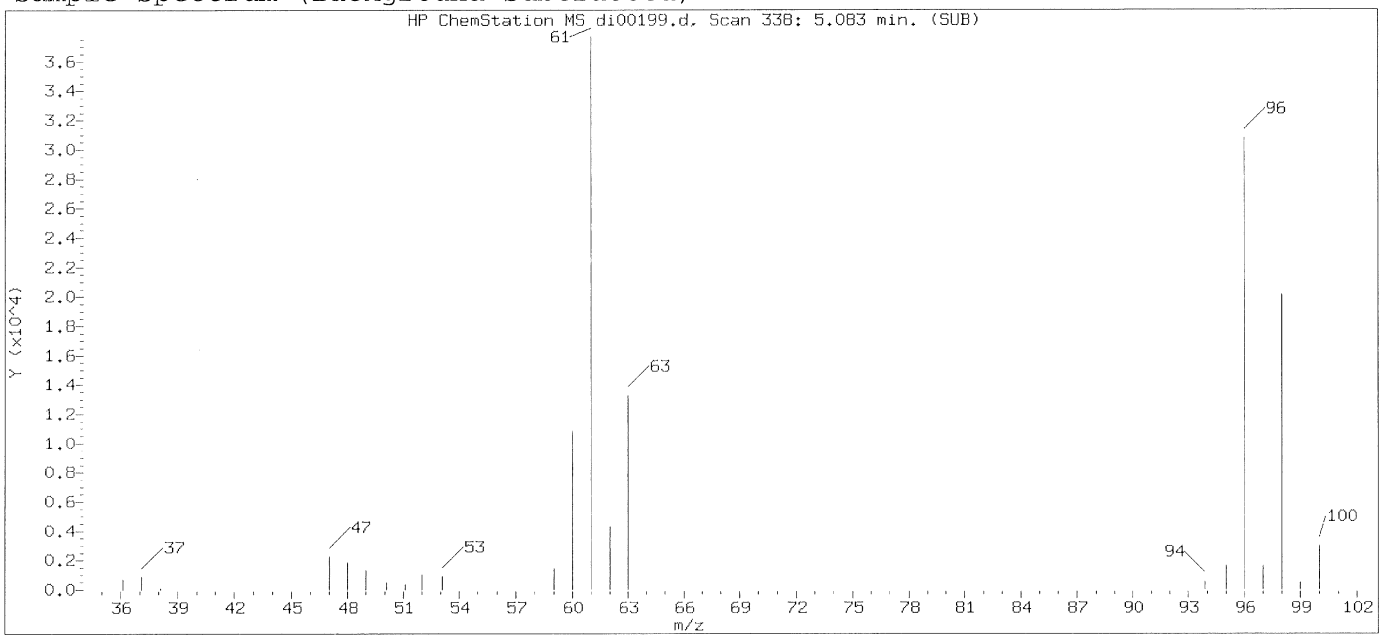
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

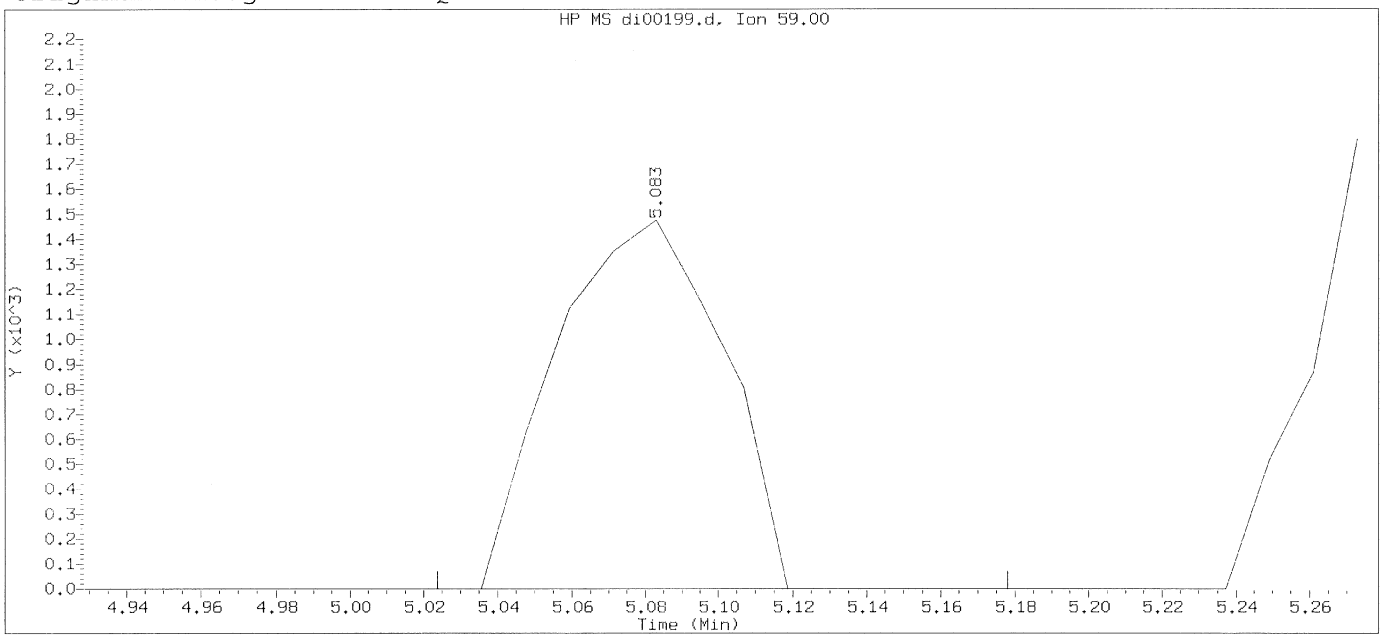
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

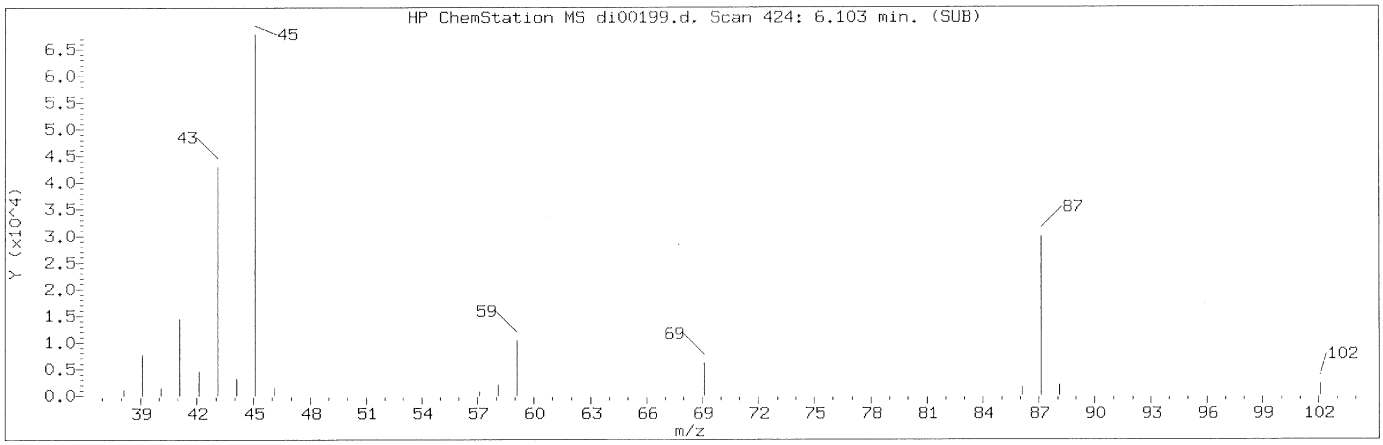
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

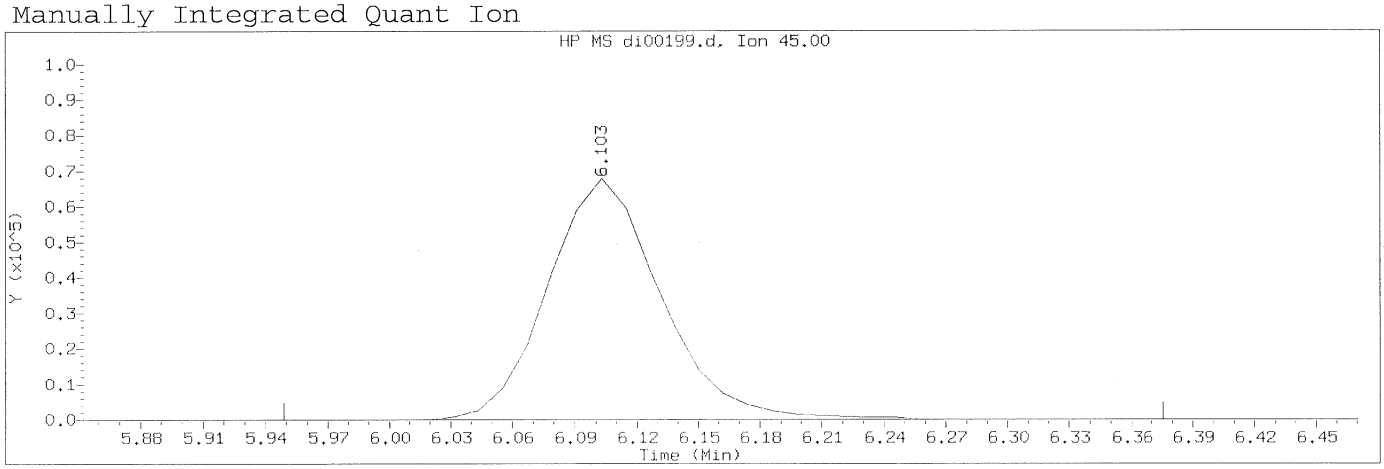
Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 338		
Retention Time (minutes)	: 5.083		
Quant Ion	: 59.00		
Area	: 4658		
Concentration (ppb(v))	: 0.0584		
Integration start scan	: 332	Integration stop scan:	345
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 33
Compound Name : Di-Isopropyl Ether
Scan Number : 424
Retention Time (minutes): 6.103
Quant Ion : 45.00
Area (flag) : 257617M
Concentration (ppb(v)) : 2.0009
Integration start scan : 410 Integration stop scan: 446
Y at integration start : 0 Y at integration end: 0

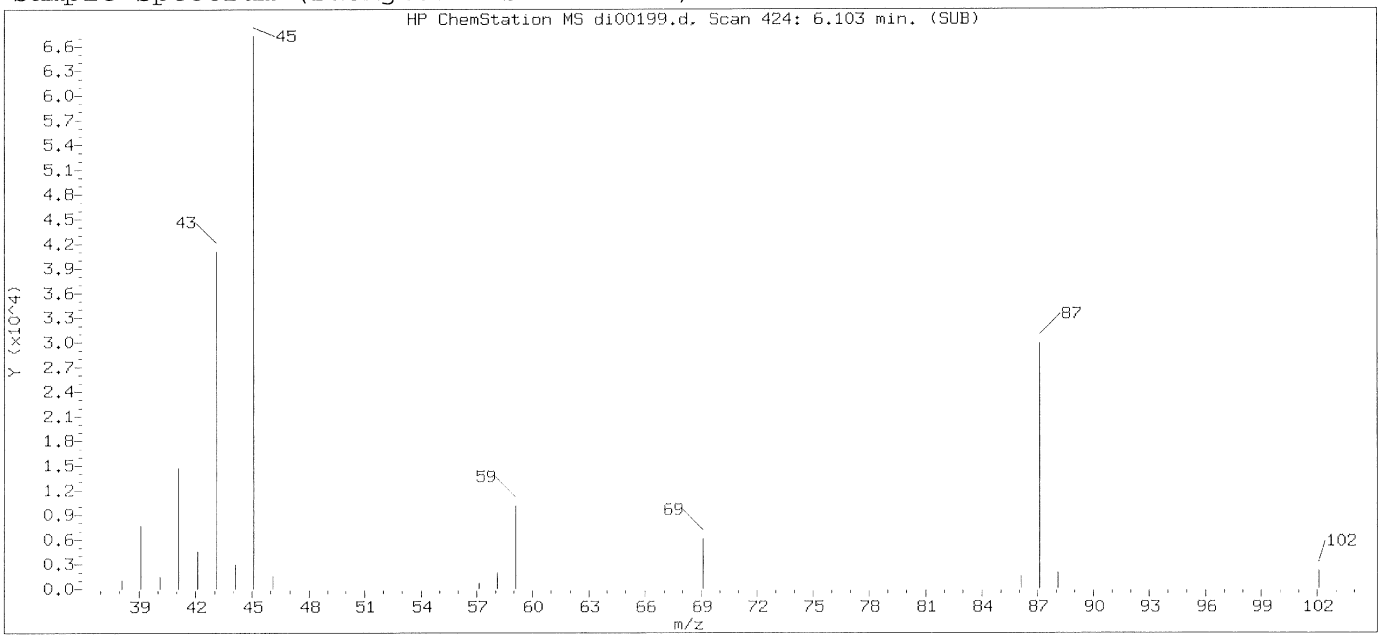
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

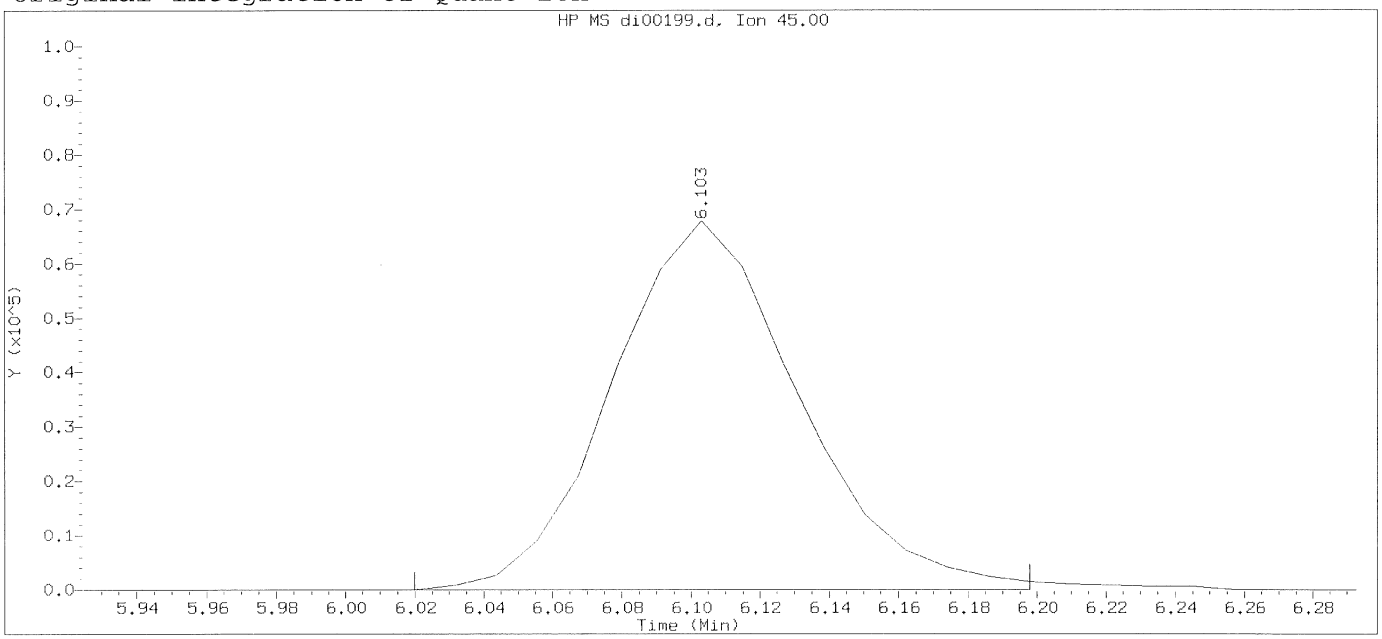
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

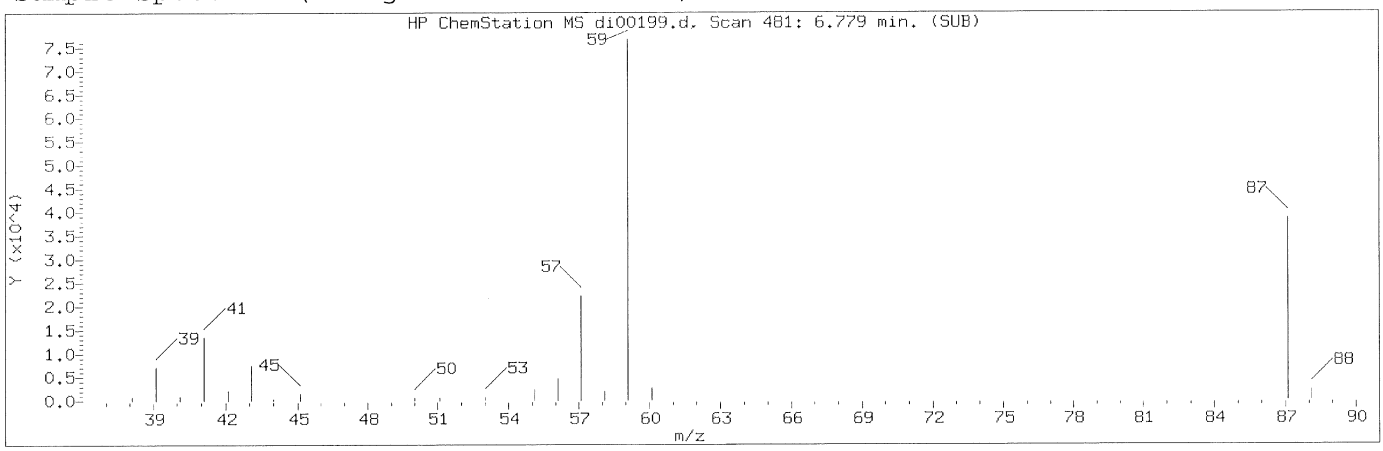
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

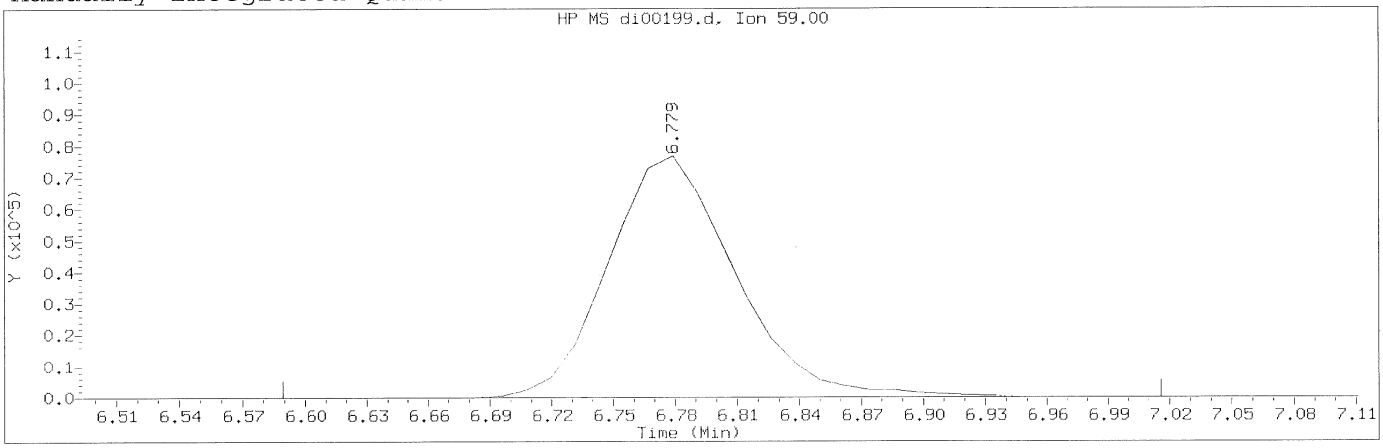
Compound Number	: 33		
Compound Name	: Di-Isopropyl Ether		
Scan Number	: 424		
Retention Time (minutes)	: 6.103		
Quant Ion	: 45.00		
Area	: 254787		
Concentration (ppb(v))	: 3.2266		
Integration start scan	: 416	Integration stop scan:	431
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 481		
Retention Time (minutes)	: 6.779		
Quant Ion	: 59.00		
Area (flag)	: 328033M		
Concentration (ppb(v))	: 1.9237		
Integration start scan	: 464	Integration stop scan:	500
Y at integration start	: 0	Y at integration end:	0

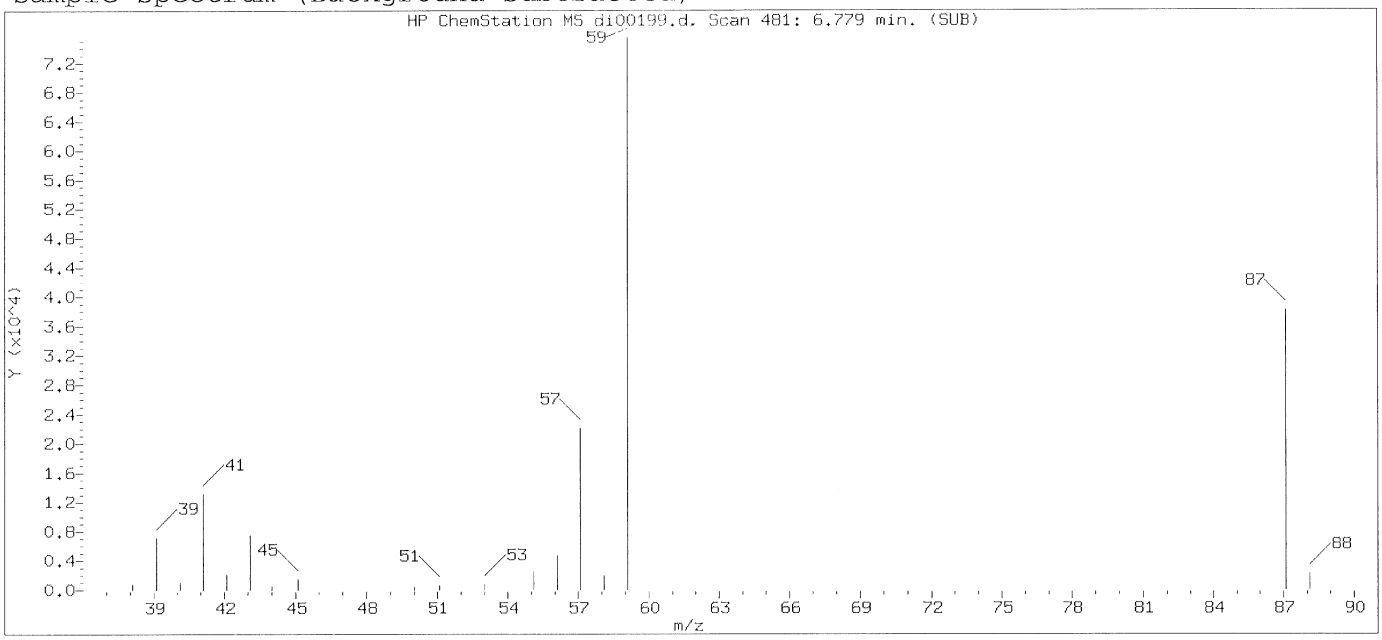
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

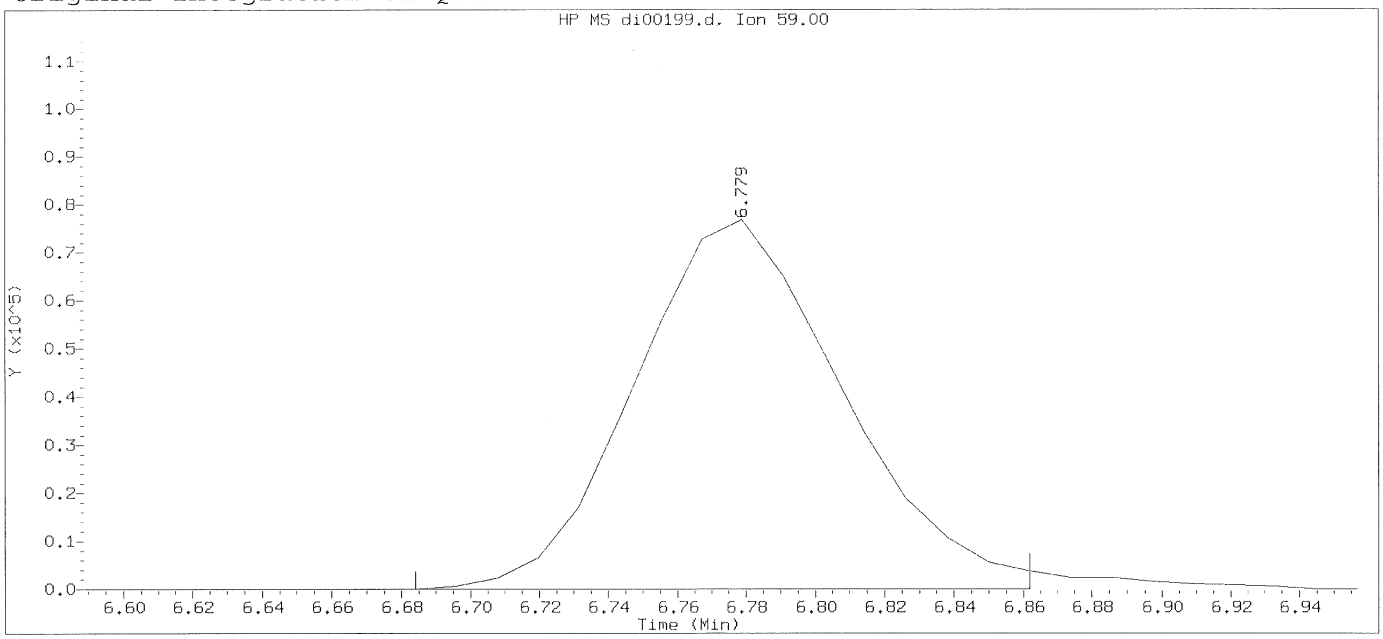
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

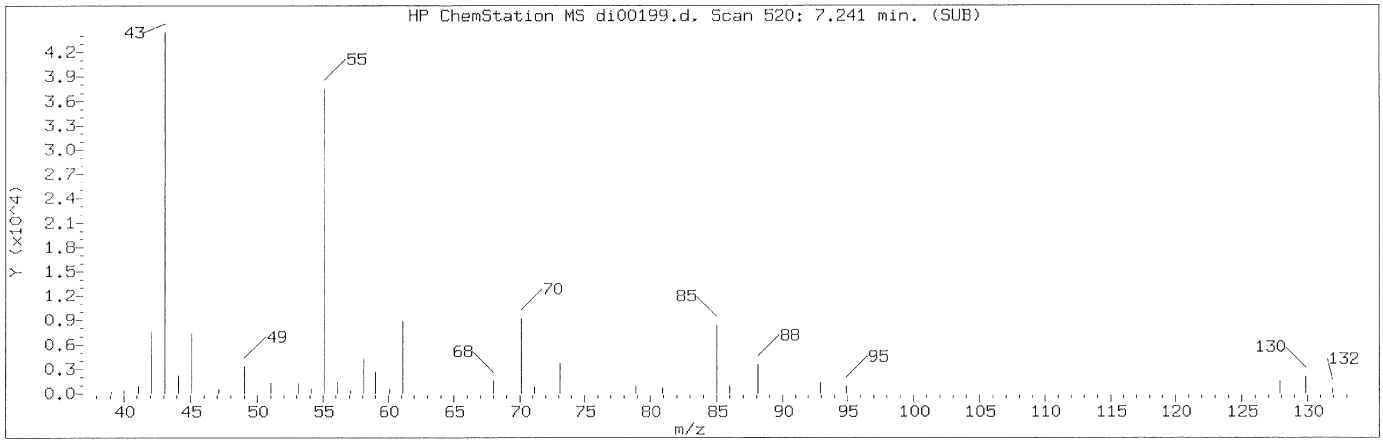
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

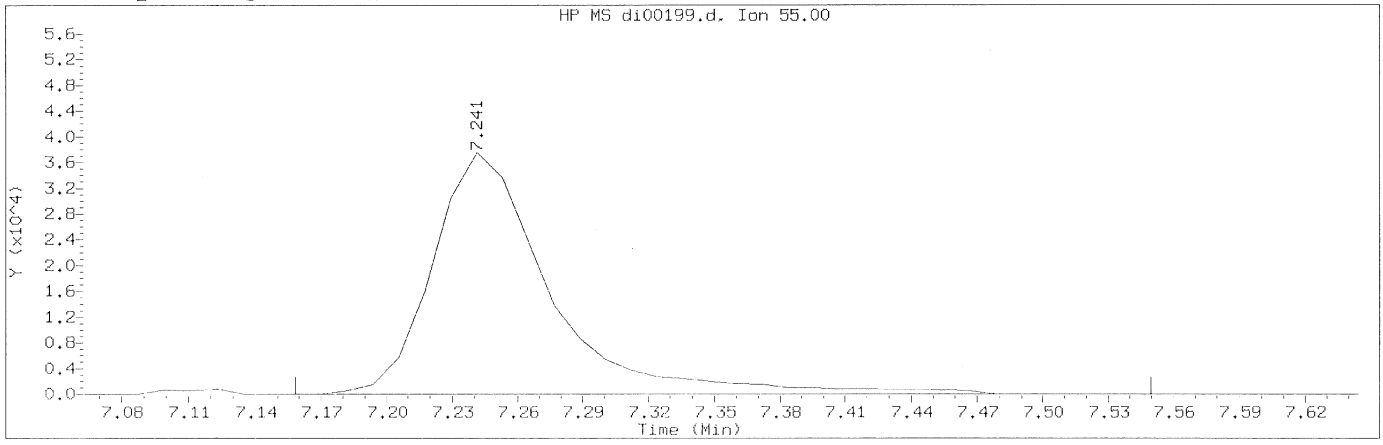
Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 481		
Retention Time (minutes)	: 6.779		
Quant Ion	: 59.00		
Area	: 320403		
Concentration (ppb(v))	: 2.9118		
Integration start scan	: 472	Integration stop scan:	487
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 39
Compound Name : Methyl Acrylate
Scan Number : 520
Retention Time (minutes): 7.241
Quant Ion : 55.00
Area (flag) : 140051M
Concentration (ppb(v)) : 1.9572
Integration start scan : 512 Integration stop scan: 545
Y at integration start : 0 Y at integration end: 0

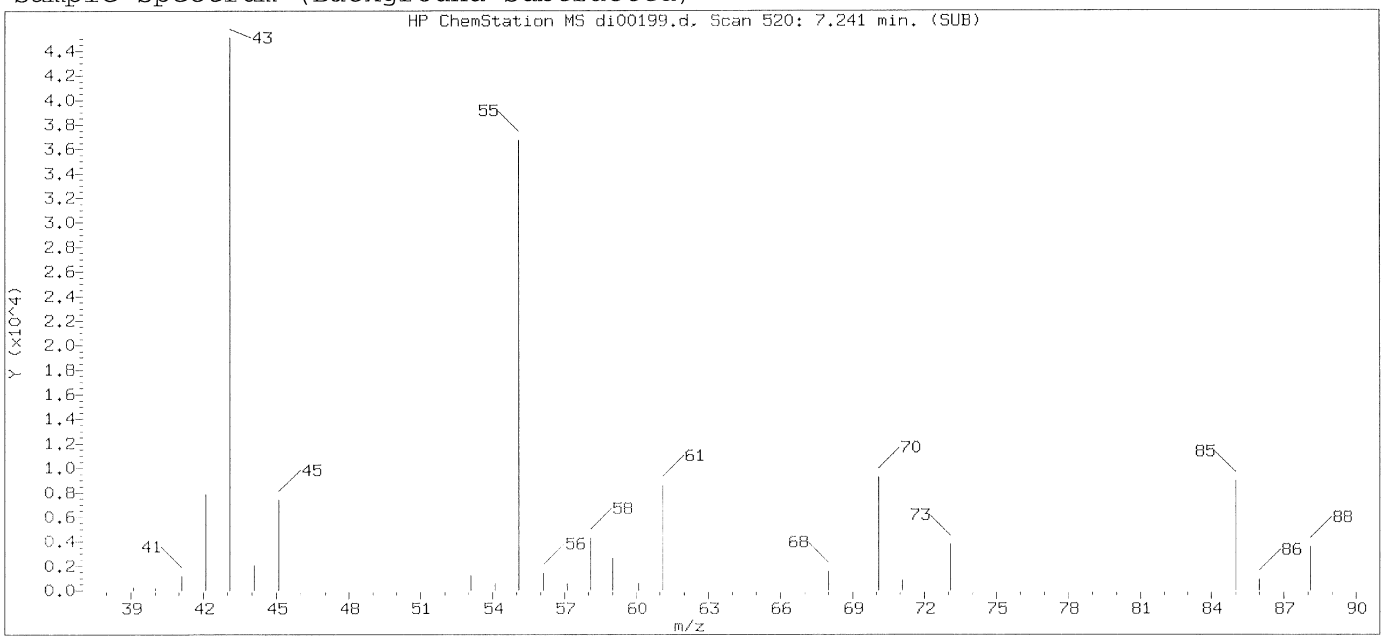
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

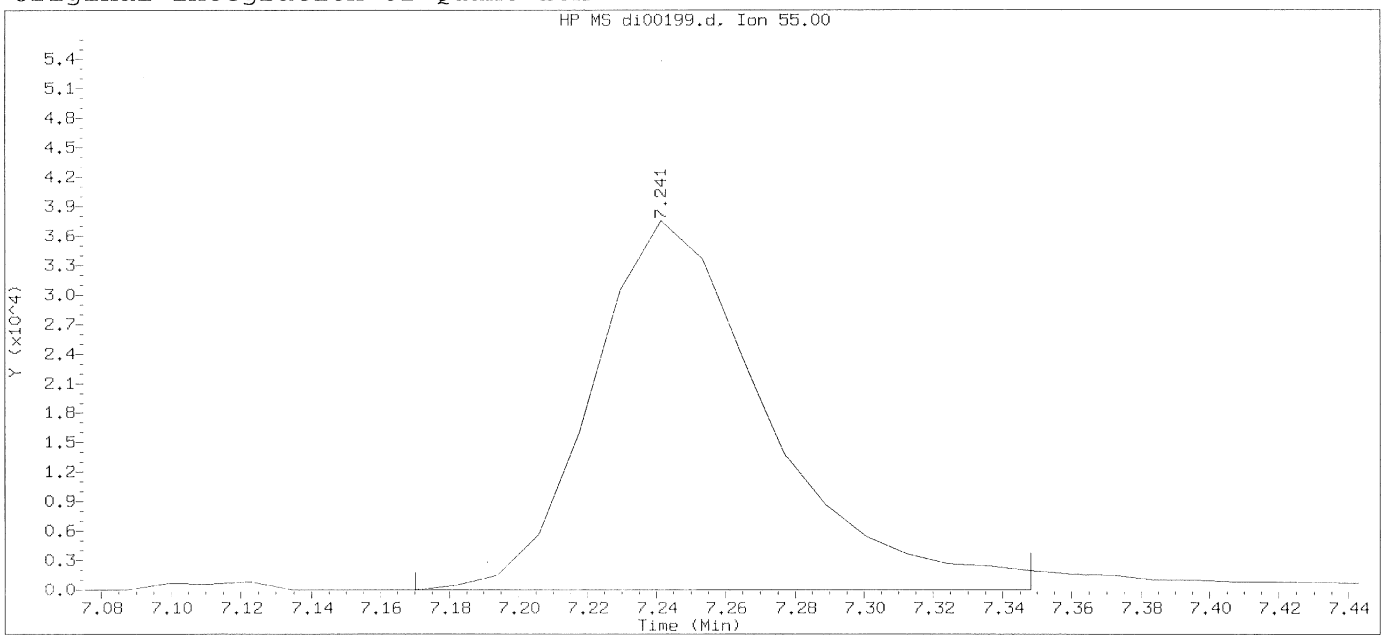
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

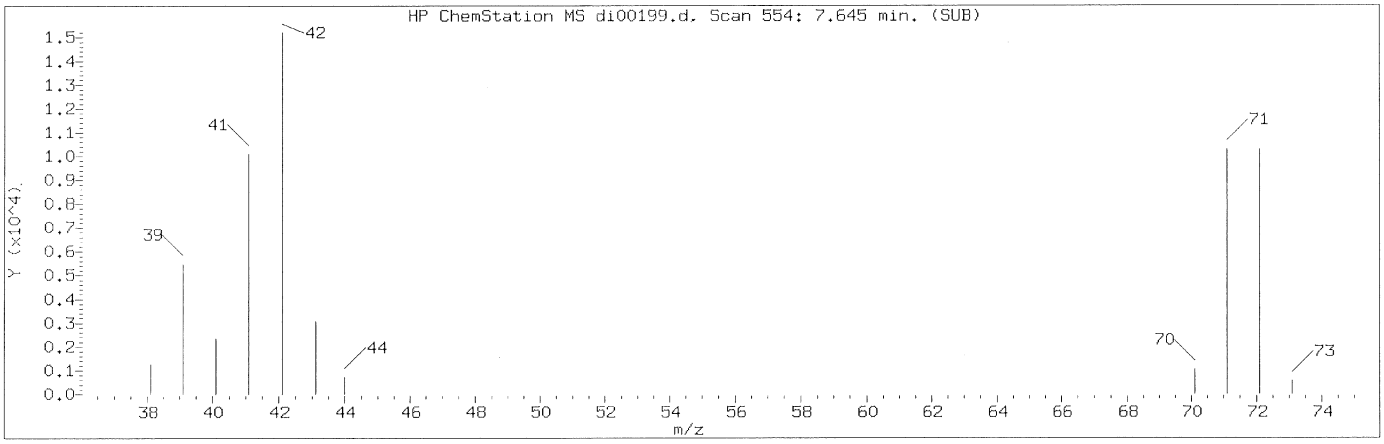
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

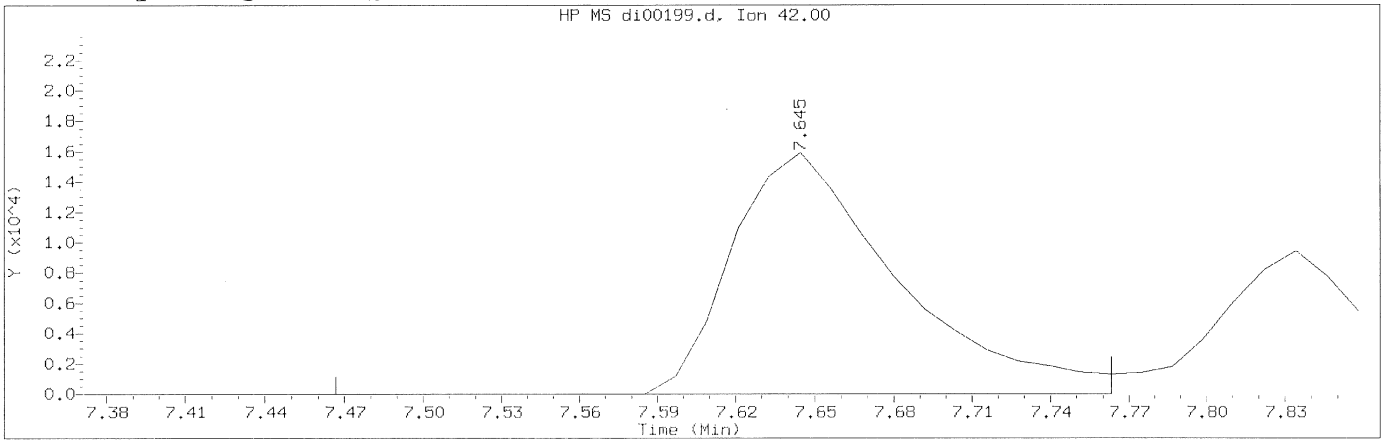
Compound Number	: 39		
Compound Name	: Methyl Acrylate		
Scan Number	: 520		
Retention Time (minutes)	: 7.241		
Quant Ion	: 55.00		
Area	: 132648		
Concentration (ppb(v))	: 2.7637		
Integration start scan	: 513	Integration stop scan:	528
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 554
Retention Time (minutes): 7.645
Quant Ion : 42.00
Area (flag) : 69857M
Concentration (ppb(v)) : 1.7952
Integration start scan : 538 Integration stop scan: 563
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

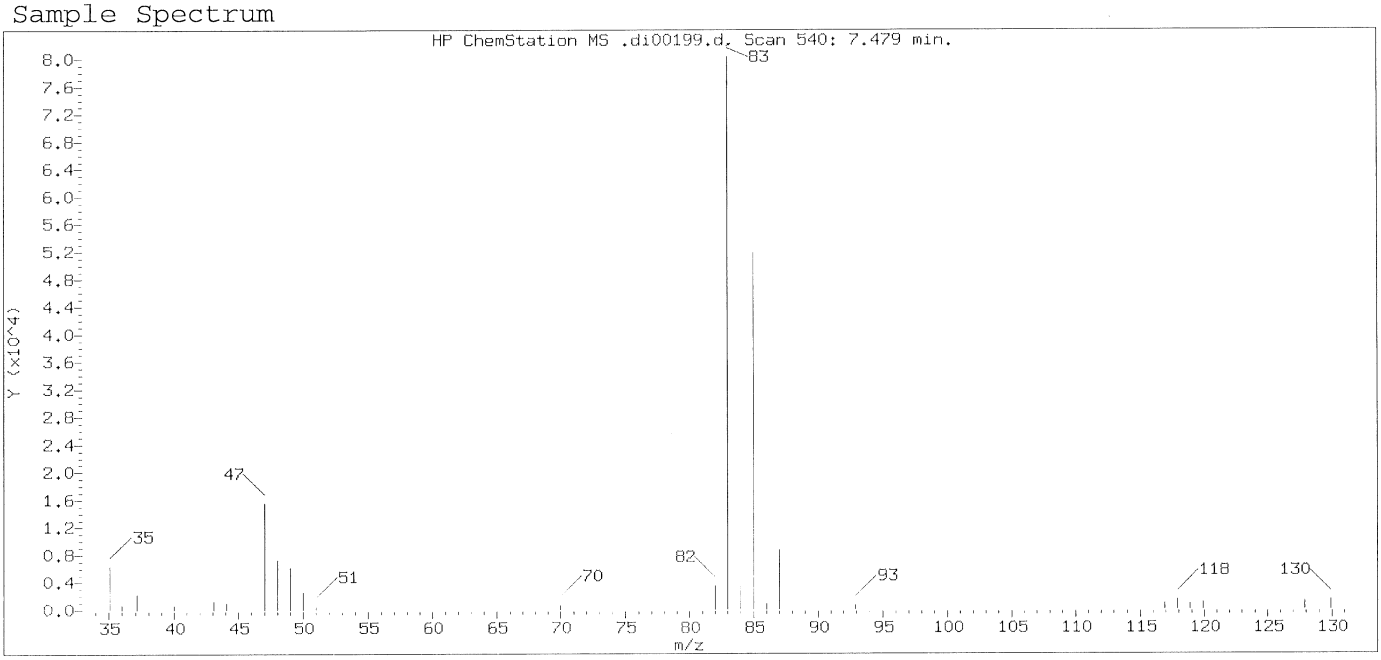
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

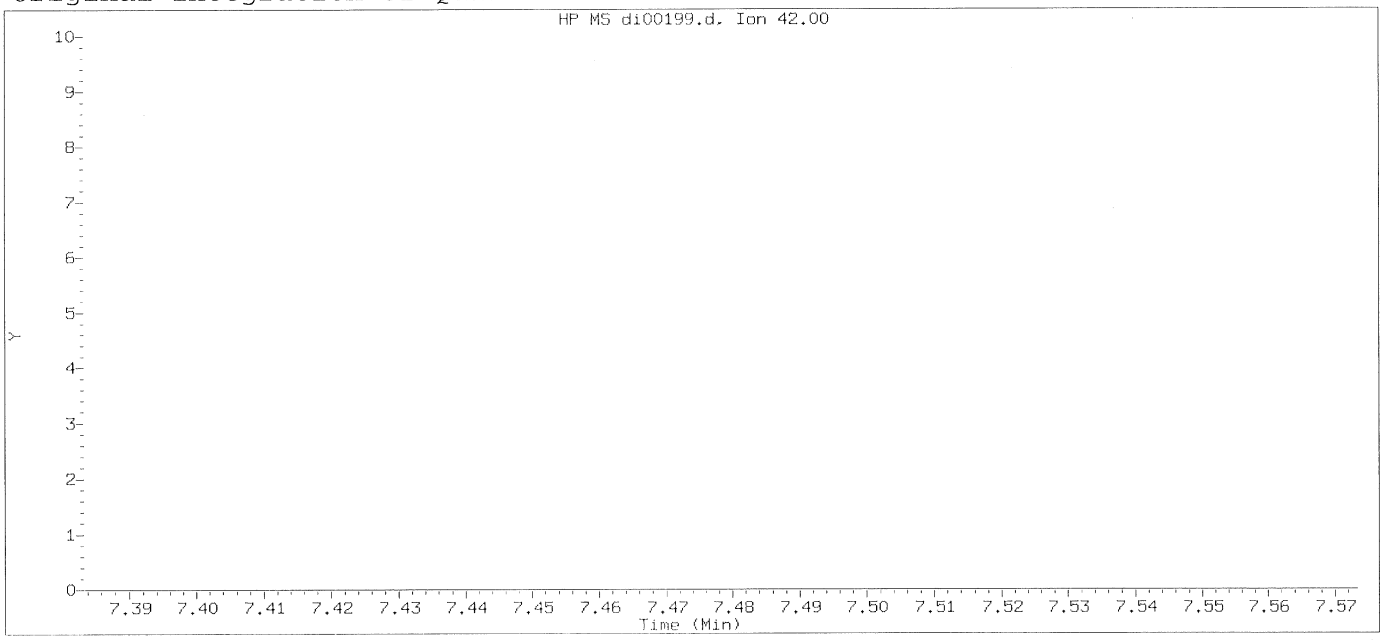
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

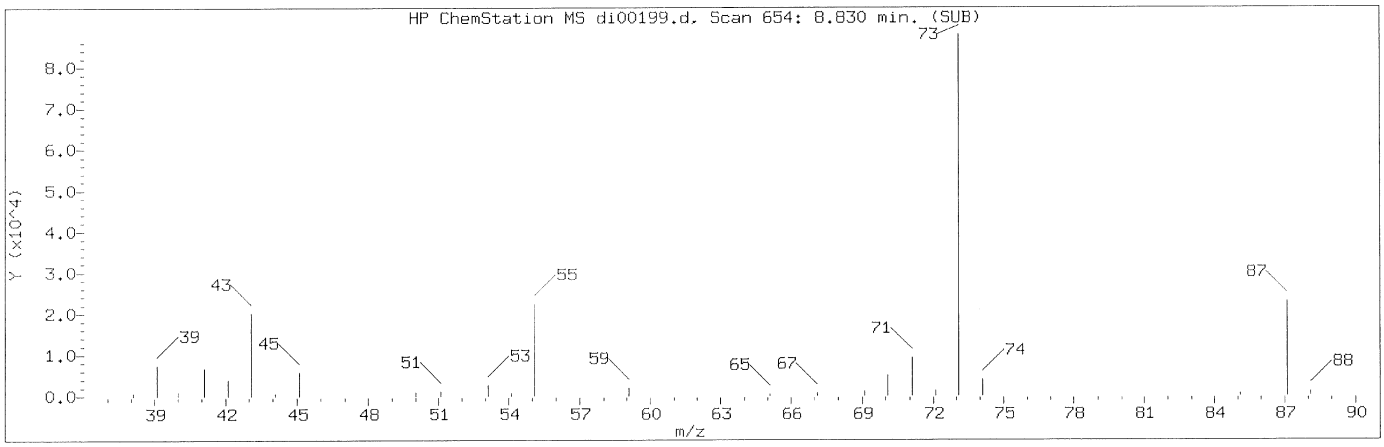
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

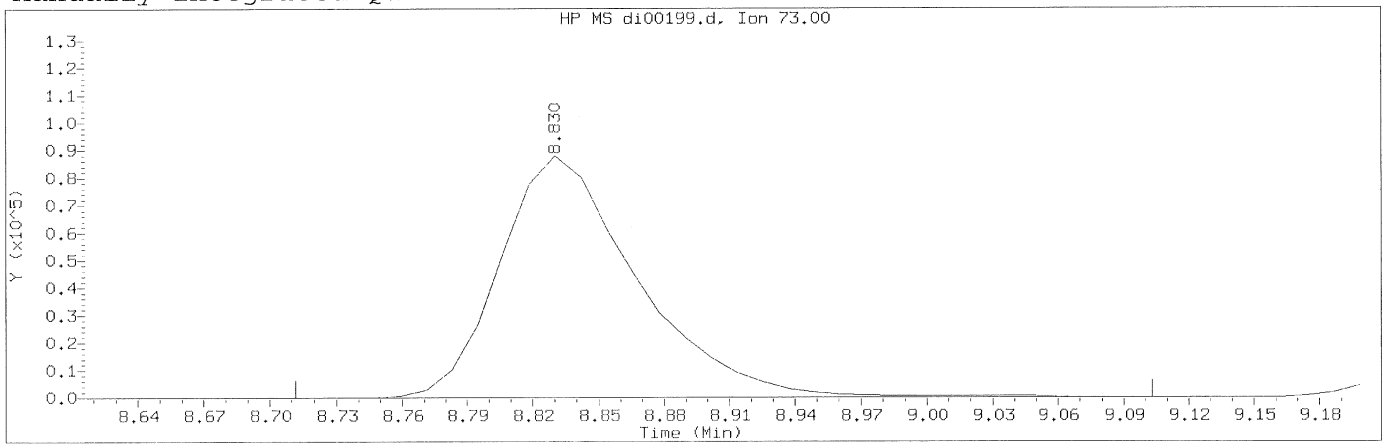
Compound Number : 41
Compound Name : Tetrahydrofuran
Expected RT (minutes) : 7.478
Quant Ion : 42.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 49
Compound Name : Tert-Amyl Methyl Ether
Scan Number : 654
Retention Time (minutes): 8.830
Quant Ion : 73.00
Area (flag) : 382608M
Concentration (ppb(v)) : 2.0510
Integration start scan : 643 Integration stop scan: 676
Y at integration start : 0 Y at integration end: 0

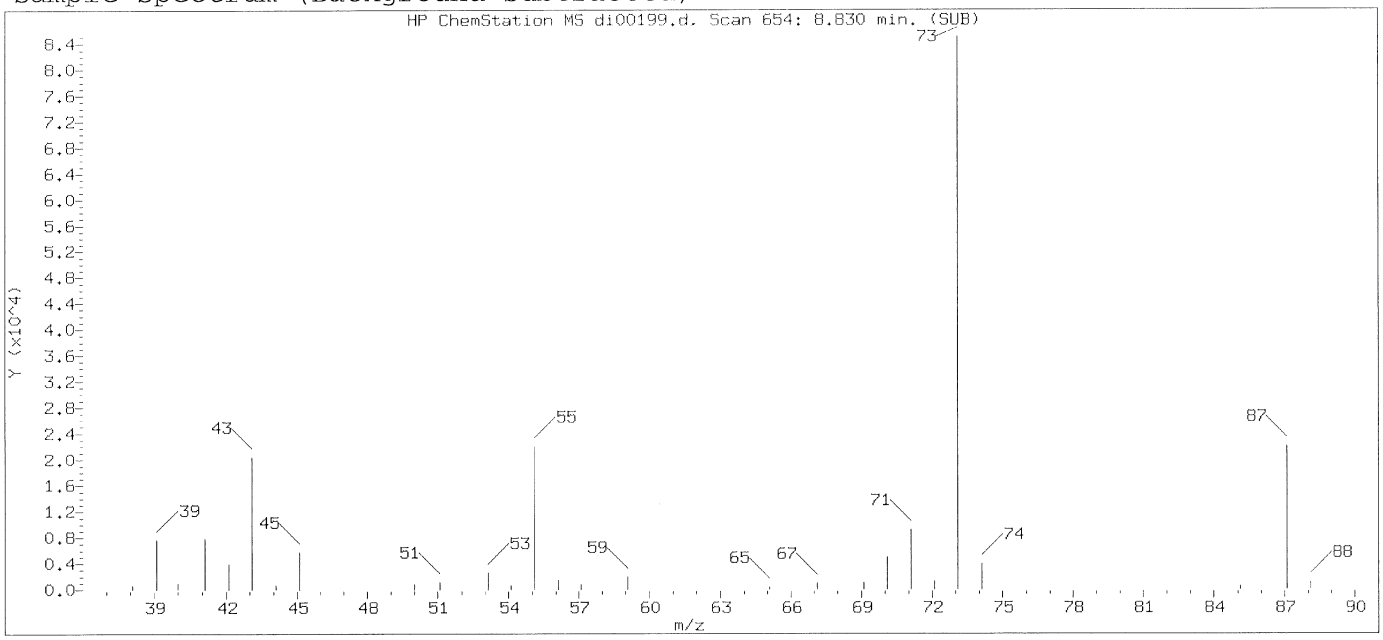
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

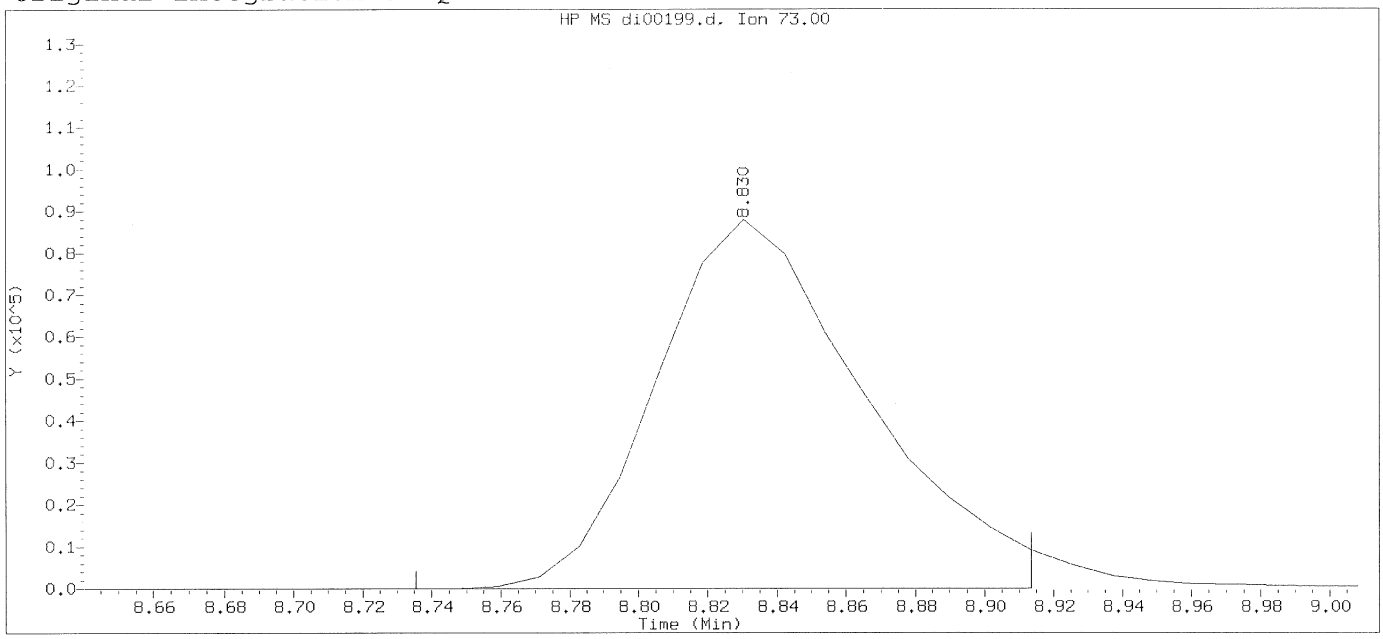
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

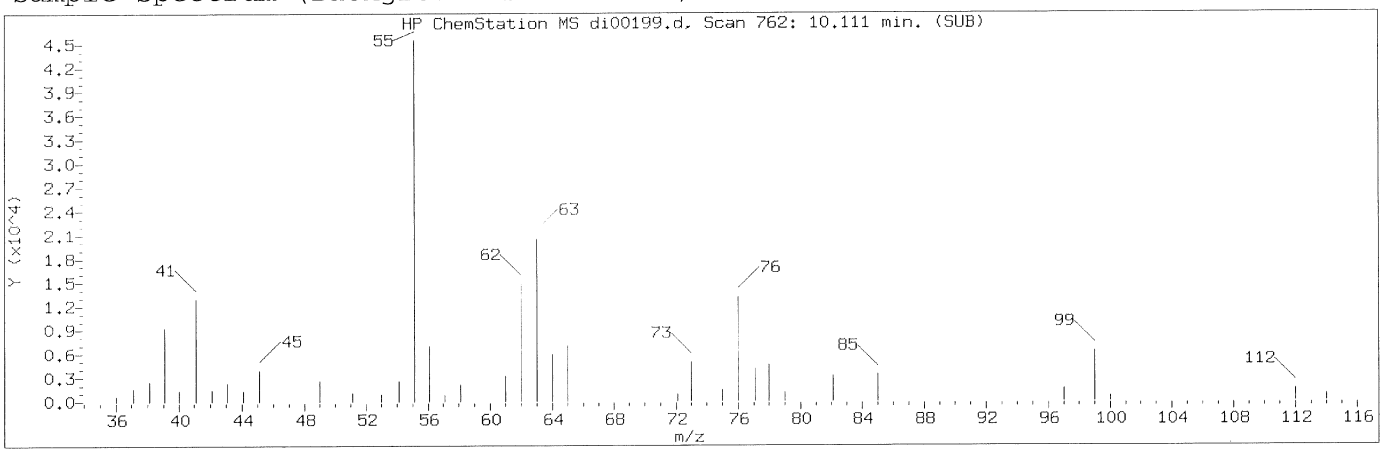
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

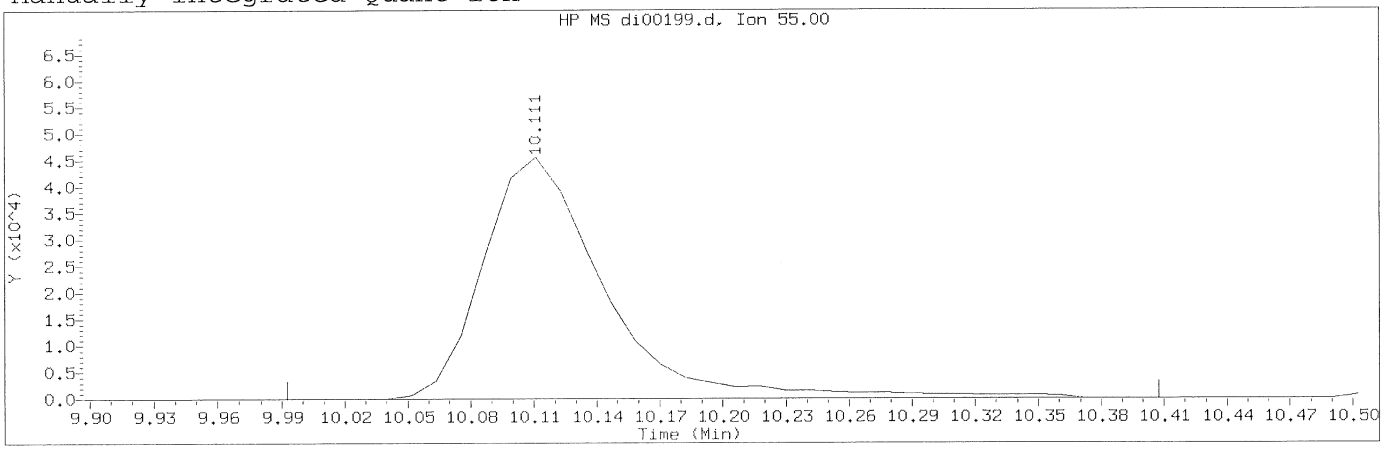
Compound Number : 49
Compound Name : Tert-Amyl Methyl Ether
Scan Number : 654
Retention Time (minutes): 8.830
Quant Ion : 73.00
Area : 367492
Concentration (ppb(v)) : 3.0163
Integration start scan : 645 Integration stop scan: 660
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 53
Compound Name : Ethyl Acrylate
Scan Number : 762
Retention Time (minutes): 10.111
Quant Ion : 55.00
Area (flag) : 182204M
Concentration (ppb(v)) : 2.0171
Integration start scan : 751 Integration stop scan: 786
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

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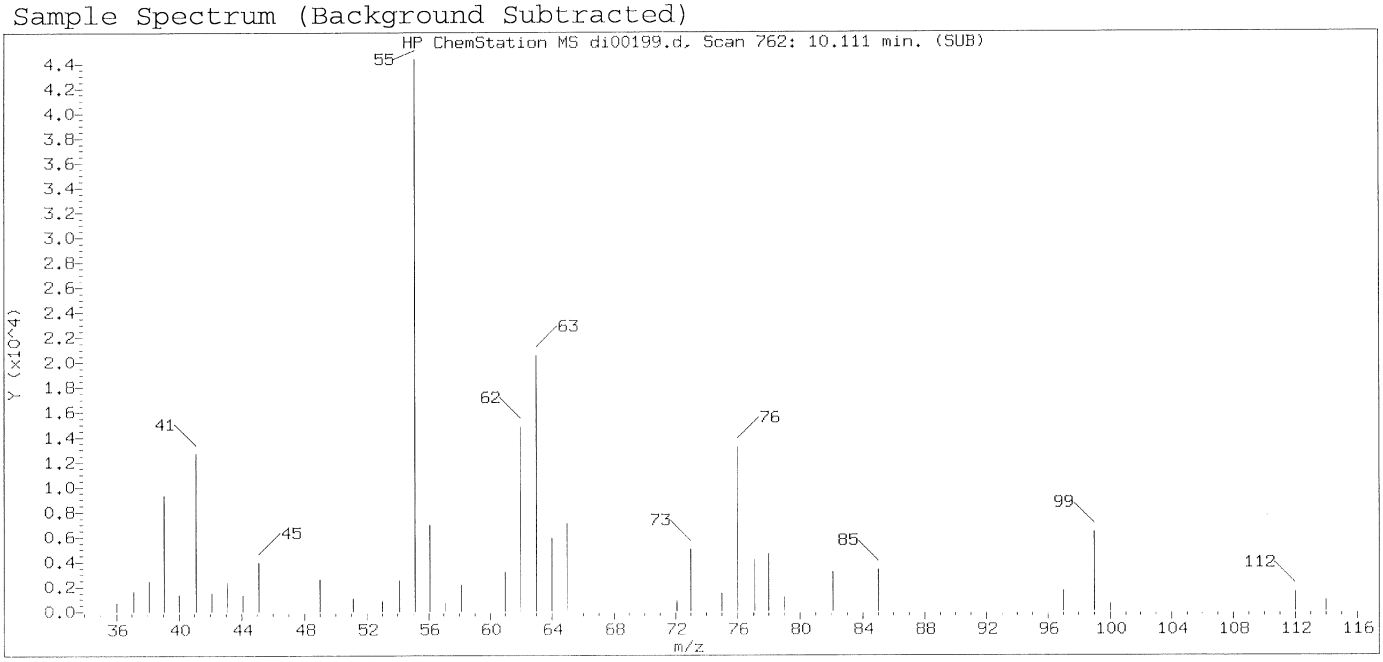
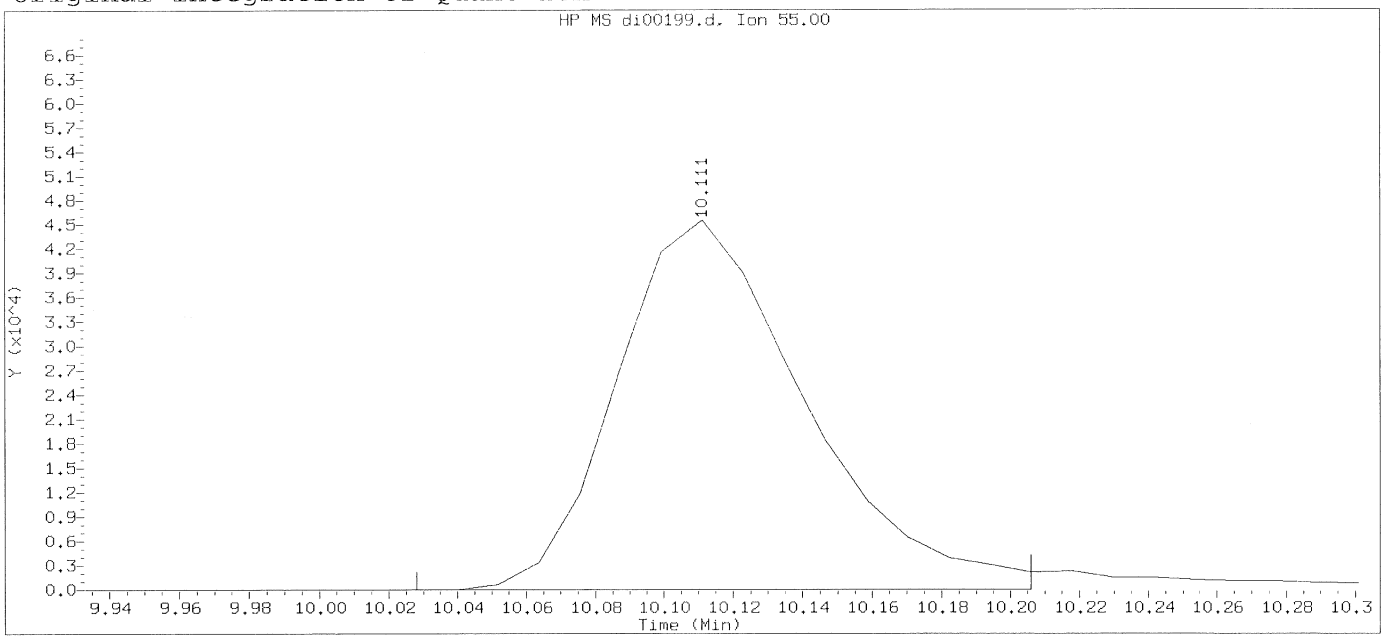
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

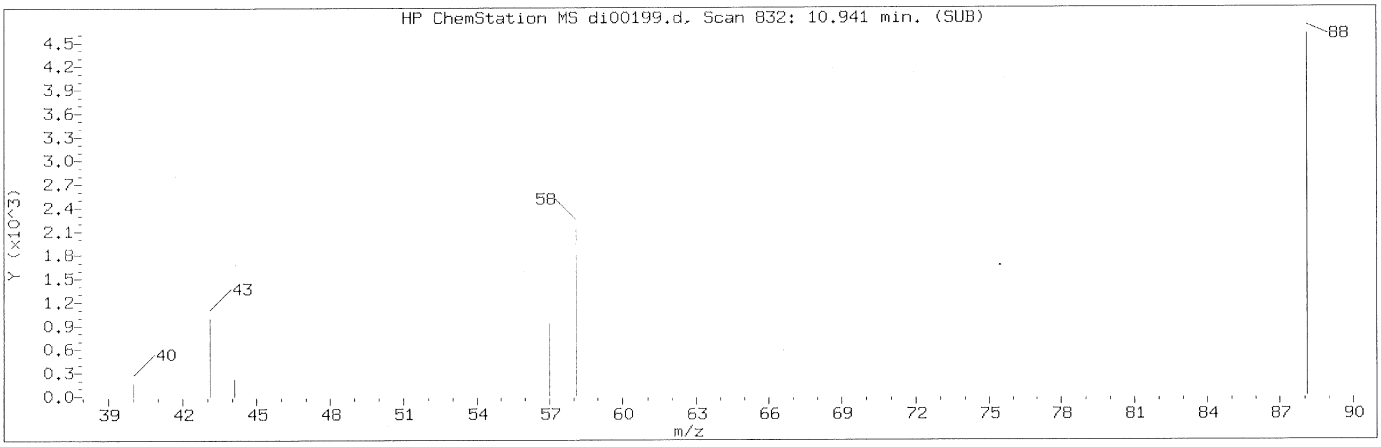
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

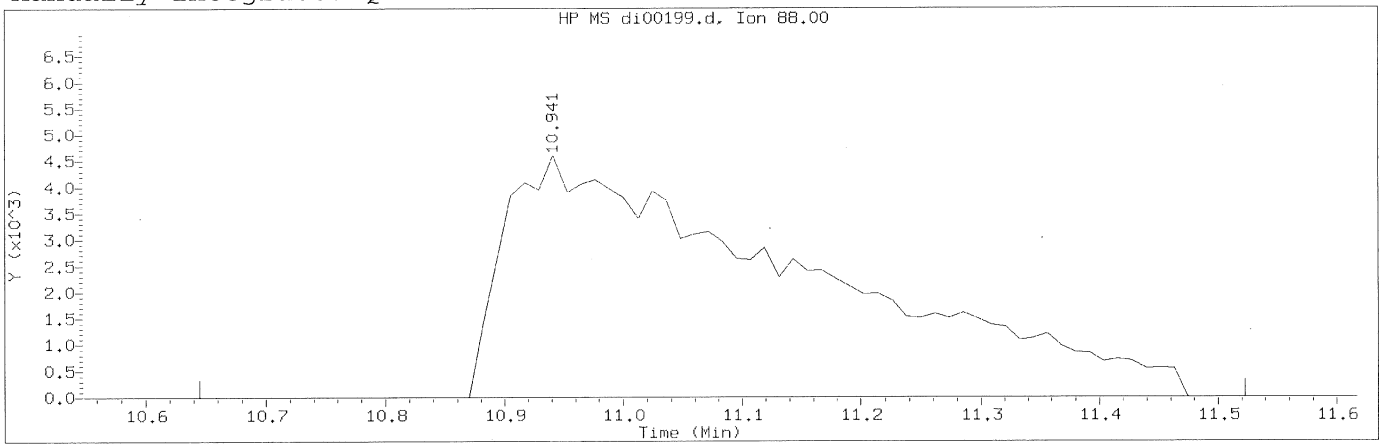
Compound Number	: 53		
Compound Name	: Ethyl Acrylate		
Scan Number	: 762		
Retention Time (minutes)	: 10.111		
Quant Ion	: 55.00		
Area	: 171705		
Concentration (ppb(v))	: 2.8169		
Integration start scan	: 754	Integration stop scan:	769
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 832
Retention Time (minutes): 10.941
Quant Ion : 88.00
Area (flag) : 80780M
Concentration (ppb(v)) : 1.9550
Integration start scan : 806 Integration stop scan: 880
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

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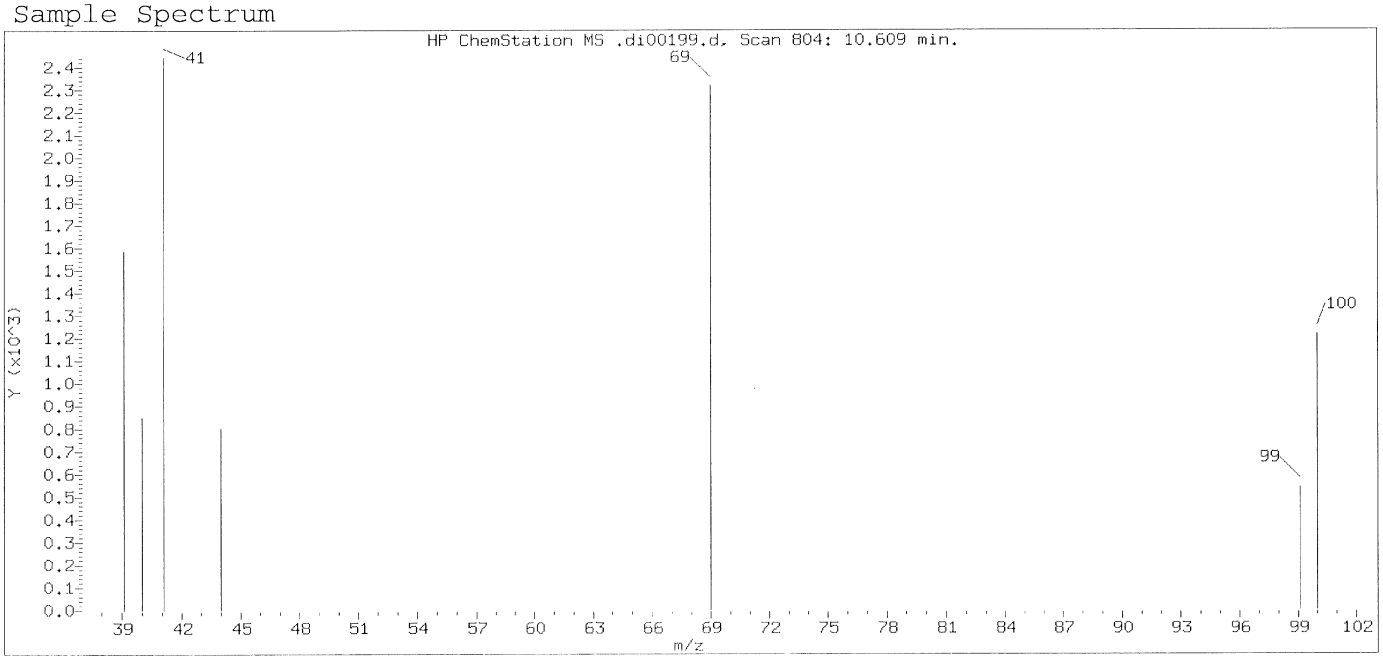
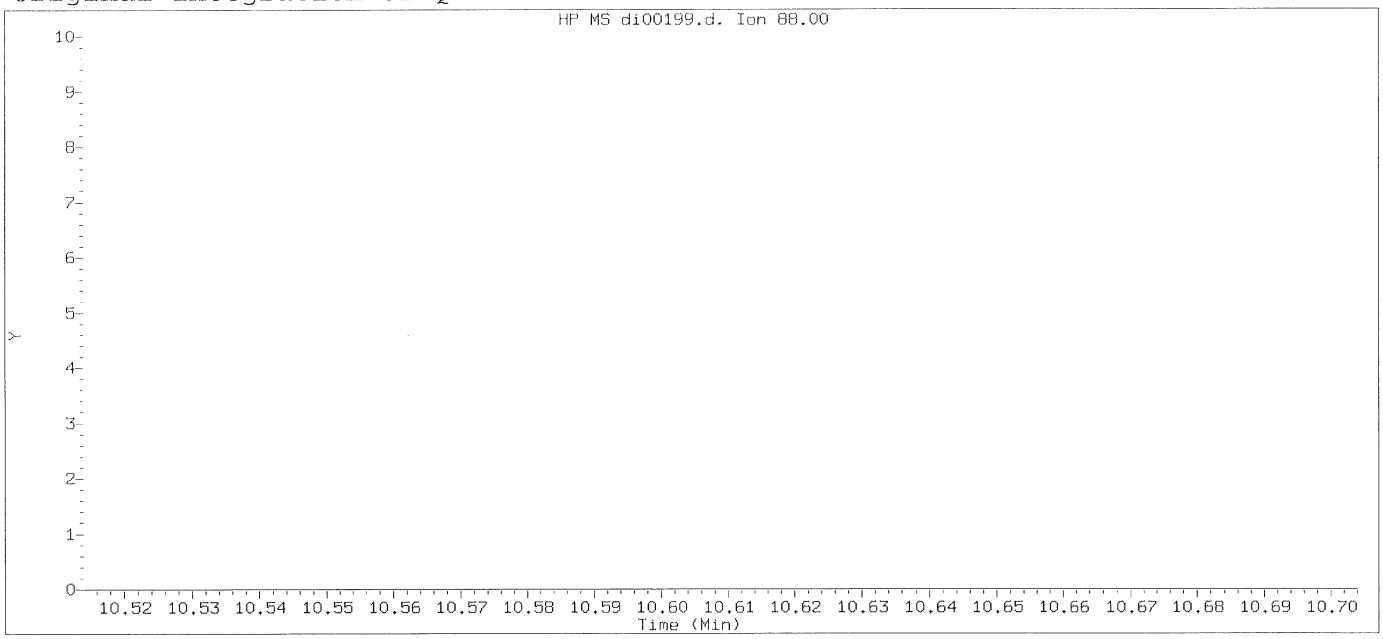
Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

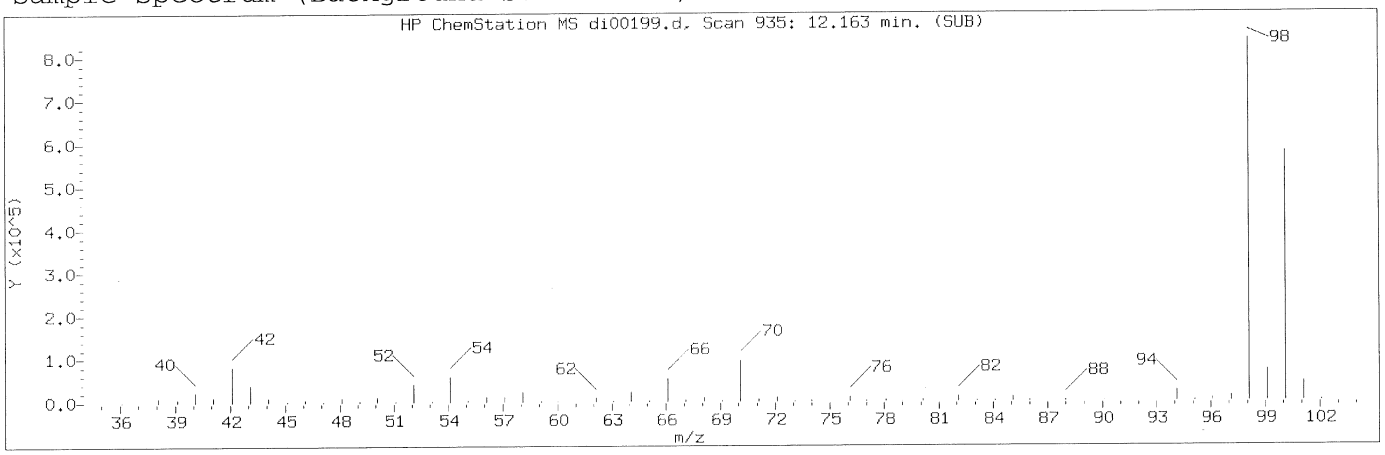
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

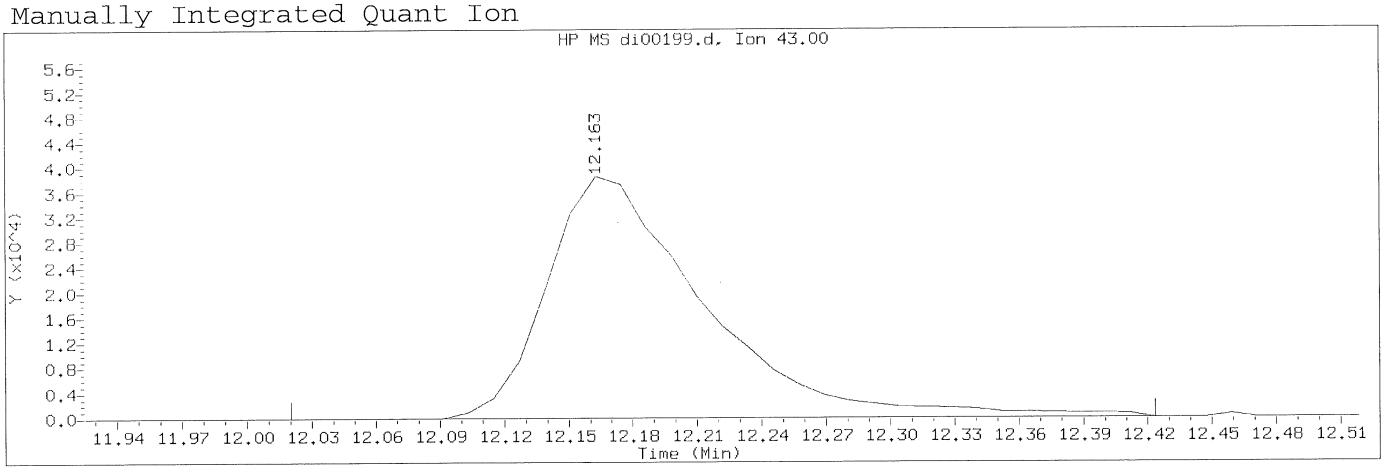
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.609
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number	: 60
Compound Name	: 4-Methyl-2-Pentanone
Scan Number	: 935
Retention Time (minutes)	: 12.163
Quant Ion	: 43.00
Area (flag)	: 196601M
Concentration (ppb(v))	: 1.9783
Integration start scan	: 922 Integration stop scan: 956
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
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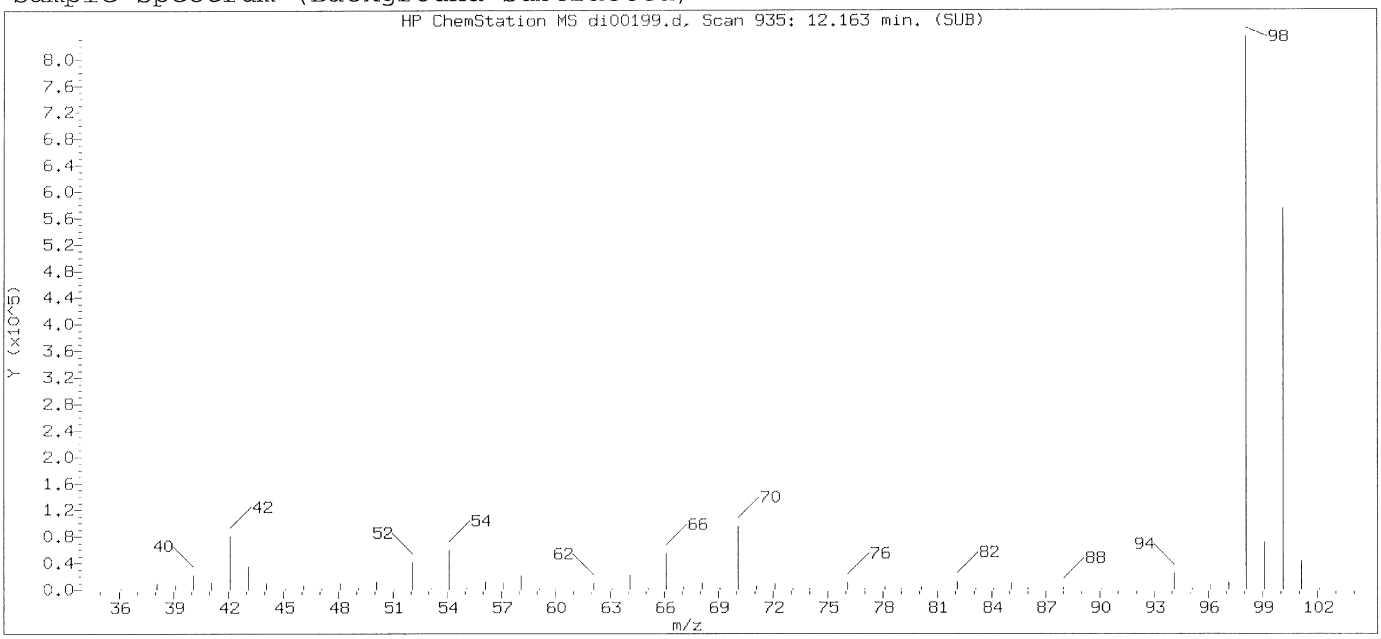
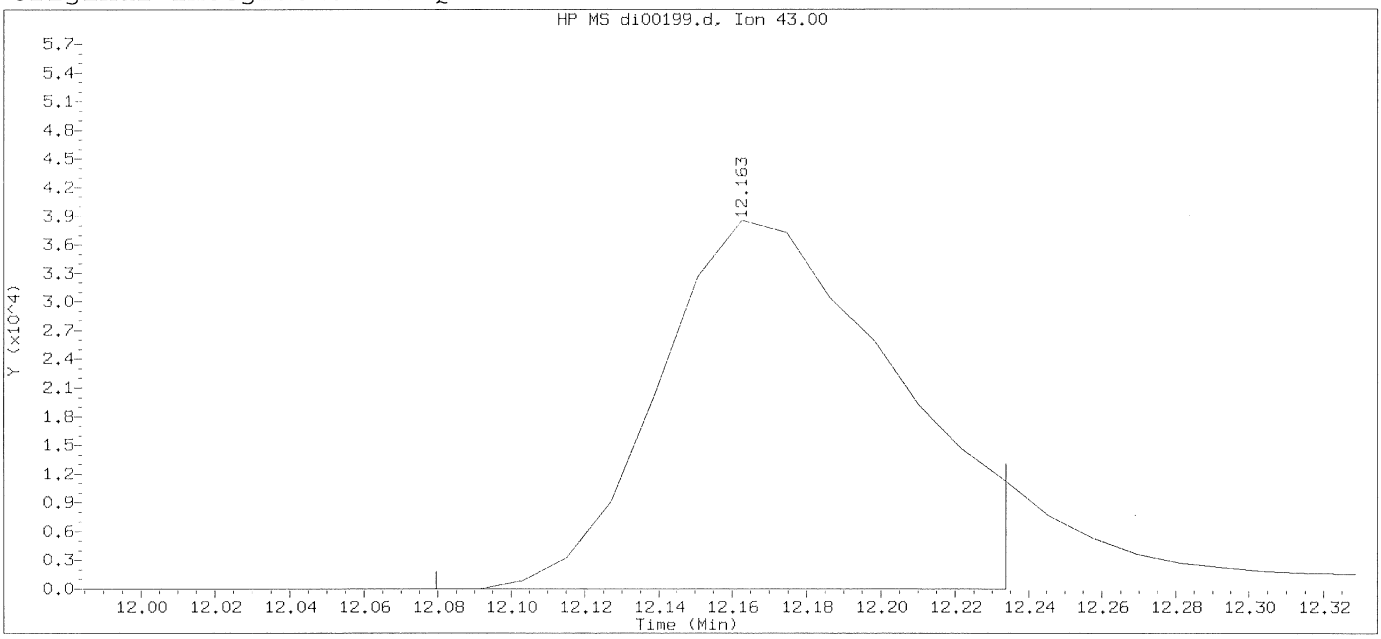
GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

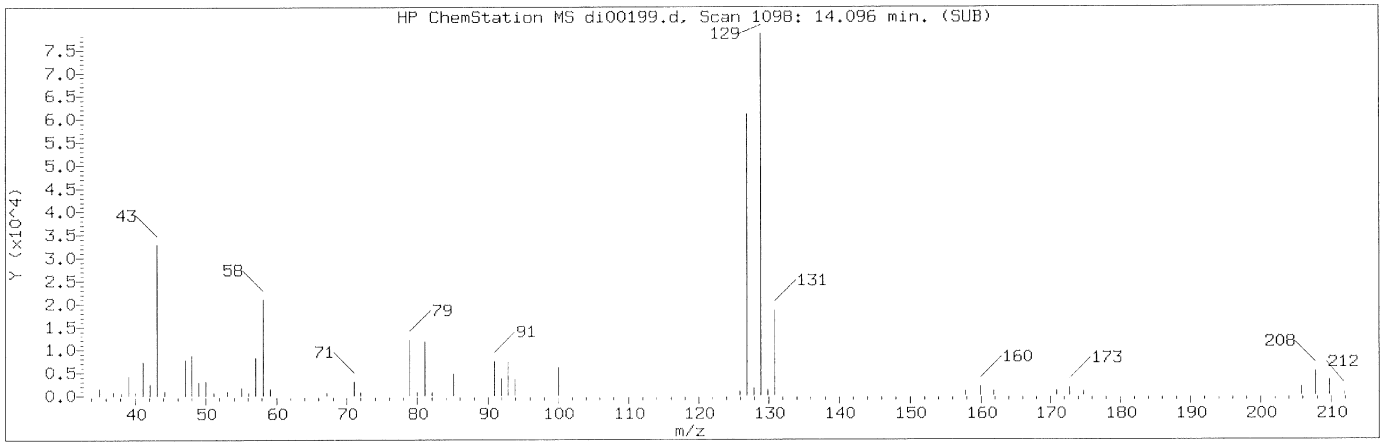
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

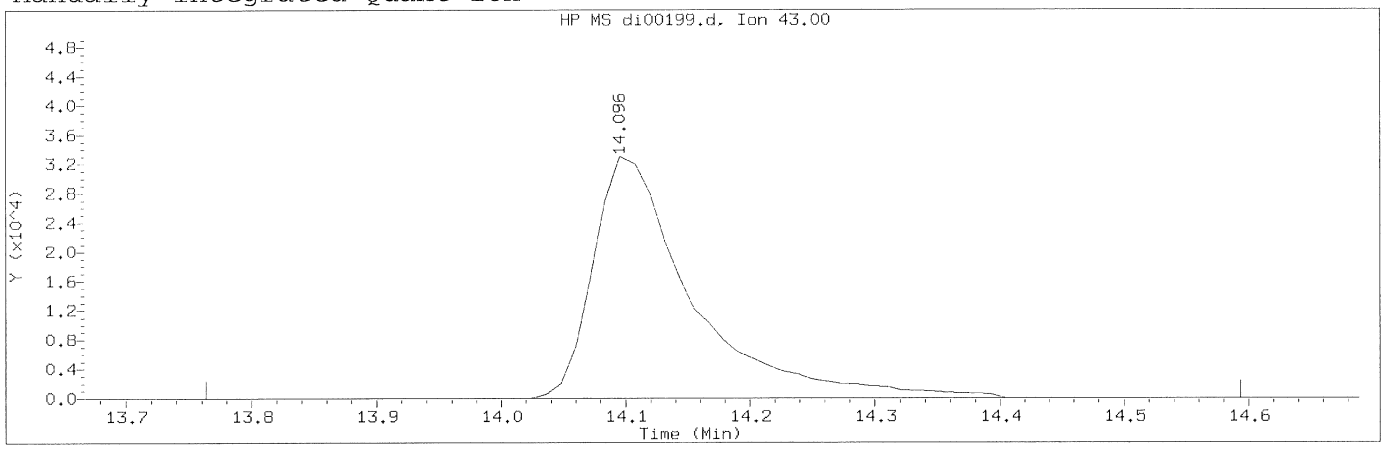
Compound Number	: 60		
Compound Name	: 4-Methyl-2-Pentanone		
Scan Number	: 935		
Retention Time (minutes)	: 12.163		
Quant Ion	: 43.00		
Area	: 169383		
Concentration (ppb(v))	: 2.3642		
Integration start scan	: 927	Integration stop scan:	940
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1098
Retention Time (minutes): 14.096
Quant Ion : 43.00
Area (flag) : 181747M
Concentration (ppb(v)) : 1.9761
Integration start scan : 1069 Integration stop scan: 1139
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37 Target 3.5 signature user ID: jbs01304

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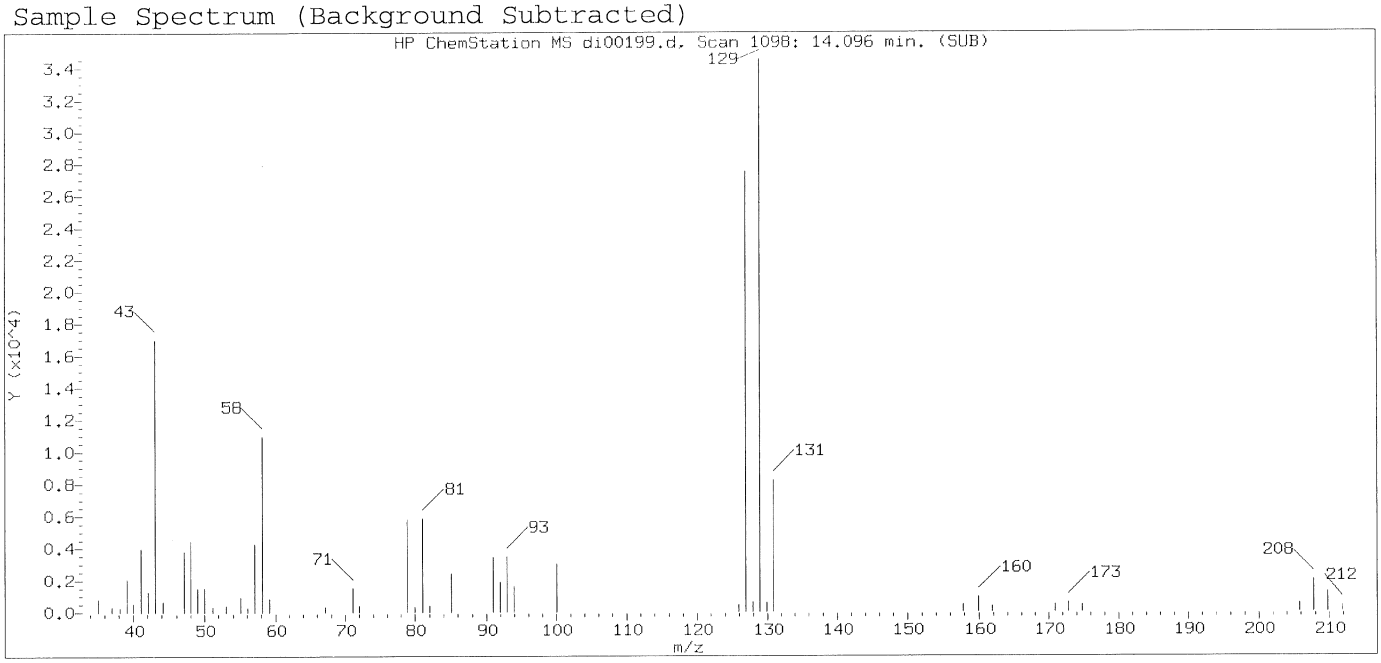
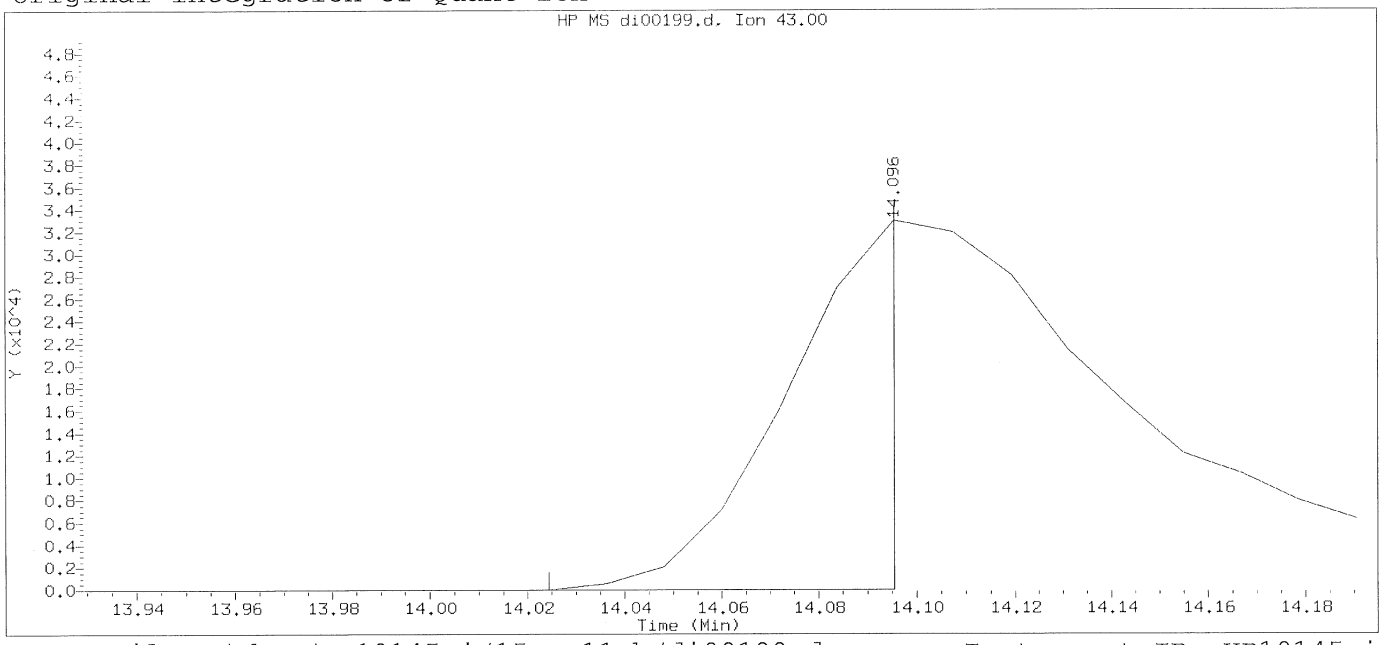
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



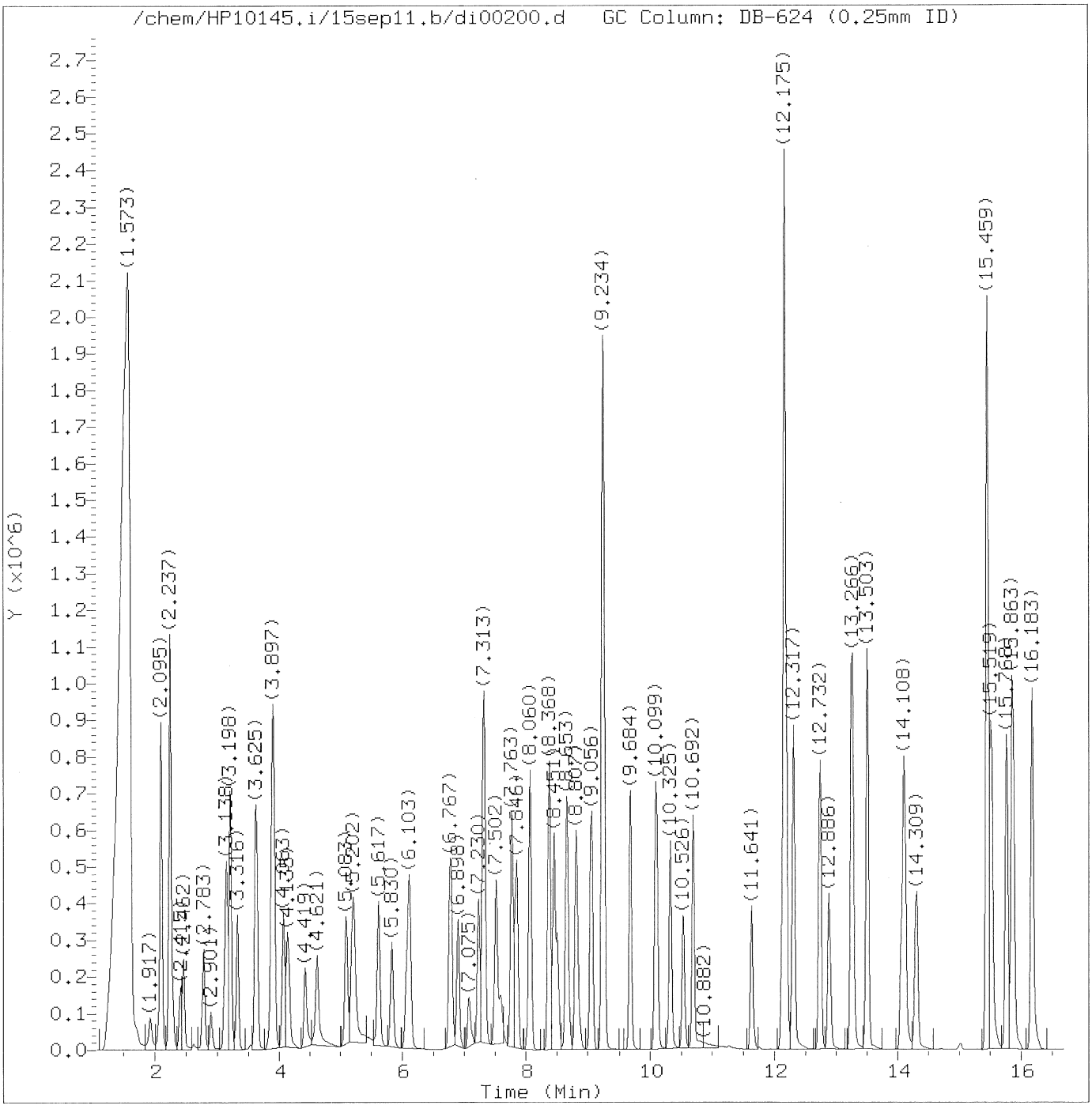
Data File: /chem/HP10145.i/15sep11.b/di00199.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 22:53 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 11-Sep-2015 23:33 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number	: 68		
Compound Name	: 2-Hexanone		
Scan Number	: 1098		
Retention Time (minutes)	: 14.096		
Quant Ion	: 43.00		
Area	: 49289		
Concentration (ppb(v))	: 0.6791		
Integration start scan	: 1091	Integration stop scan:	1097
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

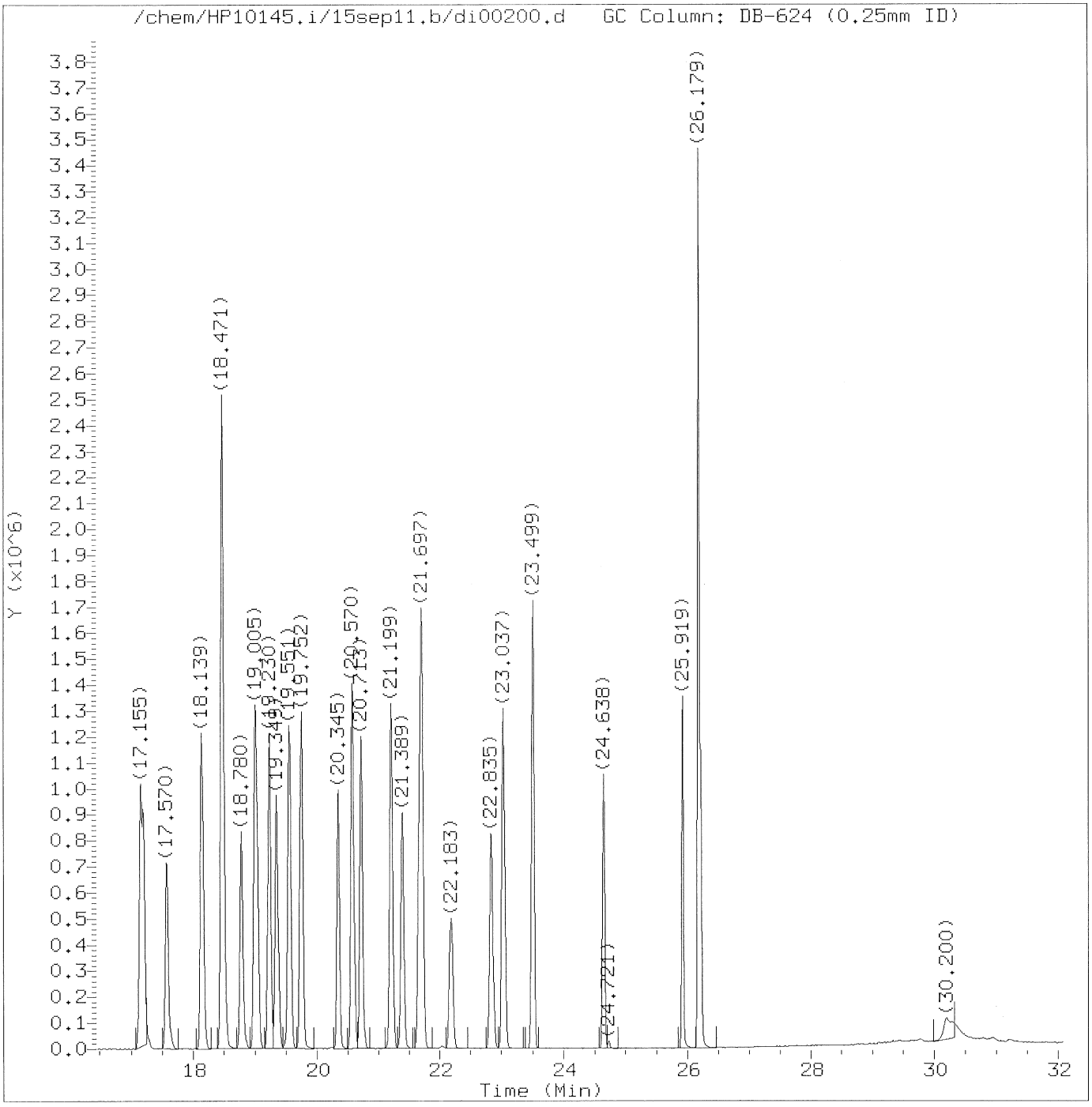
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.059	41	24563	1.043
2) Dichlorodifluoromethane	(1)	2.095	85	1024548	4.546
3) Chlorodifluoromethane	(1)	2.107	51	355010	4.781
4) Freon 114	(1)	2.237	85	799597	4.462
5) Chloromethane	(1)	2.285	52	62202	4.529
6) Vinyl Chloride	(1)	2.415	62	255258	4.562
7) 1,3-Butadiene	(1)	2.462	54	155861	4.701
8) Bromomethane	(1)	2.783	94	284582	4.344
9) Chloroethane	(1)	2.901	64	131589	4.323
10) Bromoethene	(1)	3.115	106	276007	4.769
11) Dichlorofluoromethane	(1)	3.138	67	619742	4.649
12) Trichlorofluoromethane	(1)	3.210	101	931488	4.395
13) Pentane	(1)	3.316	43	302374	4.690
15) Freon123a	(1)	3.625	67	550071	4.881
16) Acrolein	(1)	3.814	56	48899M	3.612
14) Ethanol	(1)	3.838	45	47916M	2.820
17) 1,1-Dichloroethene	(1)	3.862	61	395474	4.406
18) Freon 113	(1)	3.909	103	384888	4.261
20) Methyl Iodide	(1)	4.063	142	575805	4.547
19) Acetone	(1)	4.087	43	305492M	4.853
21) Carbon Disulfide	(1)	4.135	76	775197	4.238
24) 3-Chloropropene	(1)	4.419	76	122729	4.738
23) Acetonitrile	(1)	4.419	40	24207M	2.271
22) Isopropanol	(1)	4.573	45	300495M	4.151
25) Methylene Chloride	(1)	4.621	84	233713	4.864
28) trans-1,2-Dichloroethene	(1)	5.083	61	332848	4.837
27) Acrylonitrile	(1)	5.107	53	138712M	5.229
29) Methyl t-Butyl Ether	(1)	5.202	73	800878	5.210
26) tert-Butyl Alcohol	(1)	5.237	59	571820M	5.260
30) Hexane	(1)	5.617	57	336818	4.521
31) 1,1-Dichloroethane	(1)	5.830	63	468266	4.475
32) Vinyl Acetate	(1)	6.056	86	45804	3.691
33) Di-Isopropyl Ether	(1)	6.103	45	621542	4.827
36) 1,2-Dichloroethene (total)	(1)		61	675003	9.491
34) Ethyl Tert-Butyl Ether	(1)	6.767	59	799429	4.688
35) cis-1,2-Dichloroethene	(1)	6.898	61	342155	4.654
37) 2-Butanone	(1)	7.075	72	136817	4.953
38) Ethyl Acetate	(1)	7.218	70	86666	5.151

M = Compound was manually integrated.

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on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00200.d
Injection date and time: 11-SEP-2015 23:37
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m
Calibration date and time: 14-SEP-2015 10:01
Sublist used: all
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005
Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.230	55	343659	4.802
40)*Bromochloromethane	(1)	7.313	130	652907	10.000
42) Chloroform	(1)	7.502	83	656209	4.443
41) Tetrahydrofuran	(1)	7.585	42	180613M	4.641
43) 1,1,1-Trichloroethane	(1)	7.763	97	783328	4.501
44) Cyclohexane	(1)	7.846	56	358946	4.624
45) Carbon Tetrachloride	(1)	8.060	117	828232	4.535
46) Benzene	(2)	8.451	78	922212	4.619
47) 1,2-Dichloroethane	(2)	8.498	62	418639	4.515
48) Isooctane	(2)	8.653	57	1155813	4.672
49) Tert-Amyl Methyl Ether	(2)	8.807	73	935805	4.901
50) Heptane	(2)	9.056	43	338683	4.711
51)*1,4-Difluorobenzene	(2)	9.234	114	2636046	10.000
52) Trichloroethene	(2)	9.684	130	385450	4.496
53) Ethyl Acrylate	(2)	10.099	55	469598	5.079
54) 1,2-Dichloropropane	(2)	10.099	63	282427	4.678
55) Dibromomethane	(2)	10.325	174	394882	4.560
57) Methyl Methacrylate	(2)	10.538	69	295796	4.816
58) Bromodichloromethane	(2)	10.692	83	727928	4.531
56) 1,4-Dioxane	(2)	10.811	88	202556M	4.789
59) cis-1,3-Dichloropropene	(2)	11.641	75	424032	4.381
60) 4-Methyl-2-Pentanone	(2)	12.139	43	463645	4.558
61) Toluene	(3)	12.317	91	1152176	4.634
62) Octane	(3)	12.732	43	452125	4.630
63) trans-1,3-Dichloropropene	(3)	12.886	75	470518	4.566
64) 1,3-Dichloropropene (total)	(3)		75	894550	8.947
65) Ethyl Methacrylate	(3)	13.266	69	519100	4.798
66) 1,1,2-Trichloroethane	(3)	13.266	97	397086	4.630
67) Tetrachloroethene	(3)	13.503	166	633762	4.617
68) 2-Hexanone	(3)	14.060	43	498661M	5.275
69) Dibromochloromethane	(3)	14.108	127	540536	4.366
70) 1,2-Dibromoethane	(3)	14.309	107	571105	4.437
71)*Chlorobenzene-d5	(3)	15.459	117	2339139	10.000
72) Chlorobenzene	(3)	15.519	112	907144	4.656
73) 1,1,1,2-Tetrachloroethane	(3)	15.768	131	522110	4.679
74) Ethylbenzene	(3)	15.863	91	1562129	4.810
75) m/p-Xylene	(3)	16.183	91	1253454	4.451
76) o-Xylene	(3)	17.143	91	1301396	4.874

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

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Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00200.d
Injection date and time: 11-SEP-2015 23:37
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m
Calibration date and time: 14-SEP-2015 10:01
Sublist used: all
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005
Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.203	104	931175	4.776
77) Xylene (total)	(3)		91	2554850	9.325
79) Bromoform	(3)	17.582	173	741860	4.534
80) Cumene	(3)	18.139	105	1788242	4.816
81) Bromobenzene	(3)	18.780	156	541072	4.807
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	905166	4.779
83) 1,2,3-Trichloropropane	(3)	19.029	110	285523	4.645
84) n-Propylbenzene	(3)	19.230	120	467344	4.666
85) 2-Chlorotoluene	(3)	19.349	126	385404	4.692
86) 4-Ethyltoluene	(3)	19.551	105	1766836	4.714
87) 1,3,5-Trimethylbenzene	(3)	19.752	105	1594979	4.750
88) Alpha Methyl Styrene	(3)	20.345	118	649524	4.745
89) tert-Butylbenzene	(3)	20.570	119	1527670	4.694
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	1567078	4.728
91) sec-Butylbenzene	(3)	21.199	105	2149723	4.672
92) 1,3-Dichlorobenzene	(3)	21.389	146	944795	4.842
93) 1,4-Dichlorobenzene	(3)	21.673	146	905847M	4.677
94) p-Isopropyltoluene	(3)	21.709	119	1812289M	4.721
95) Benzyl Chloride	(3)	22.183	91	969040	4.026
96) 1,2-Dichlorobenzene	(3)	22.847	146	843492	4.607
97) n-Butylbenzene	(3)	23.037	91	1584298	4.691
98) Hexachloroethane	(3)	23.499	117	616333	4.960
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	450790	4.219
100) 1,2,4-Trichlorobenzene	(3)	25.919	180	564662	4.244
101) Hexachlorobutadiene	(3)	26.179	225	868258	4.055
102) Naphthalene	(3)	26.215	128	982757	4.345

M = Compound was manually integrated.

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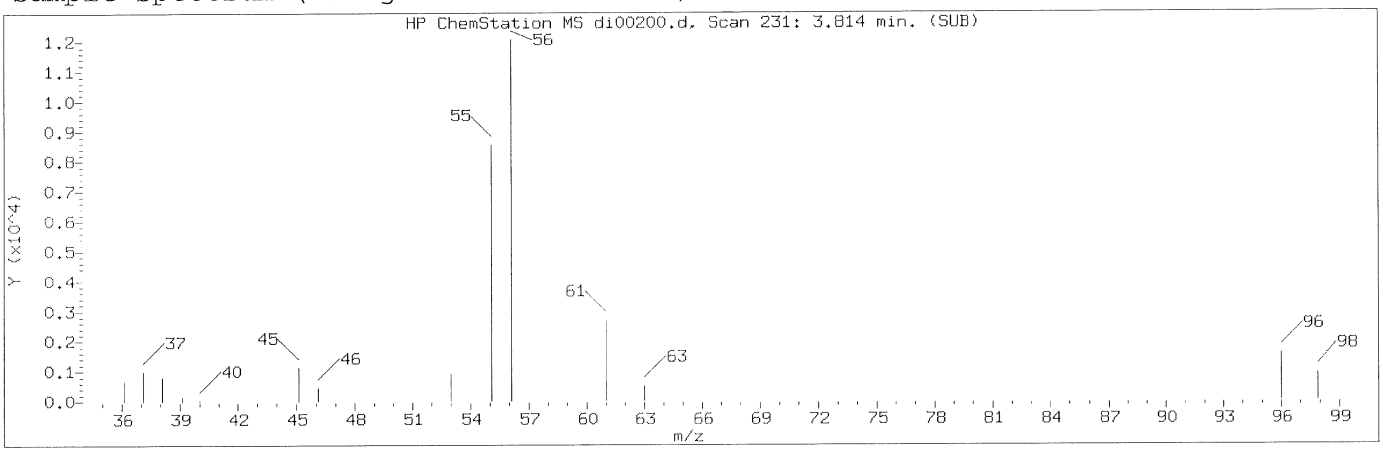
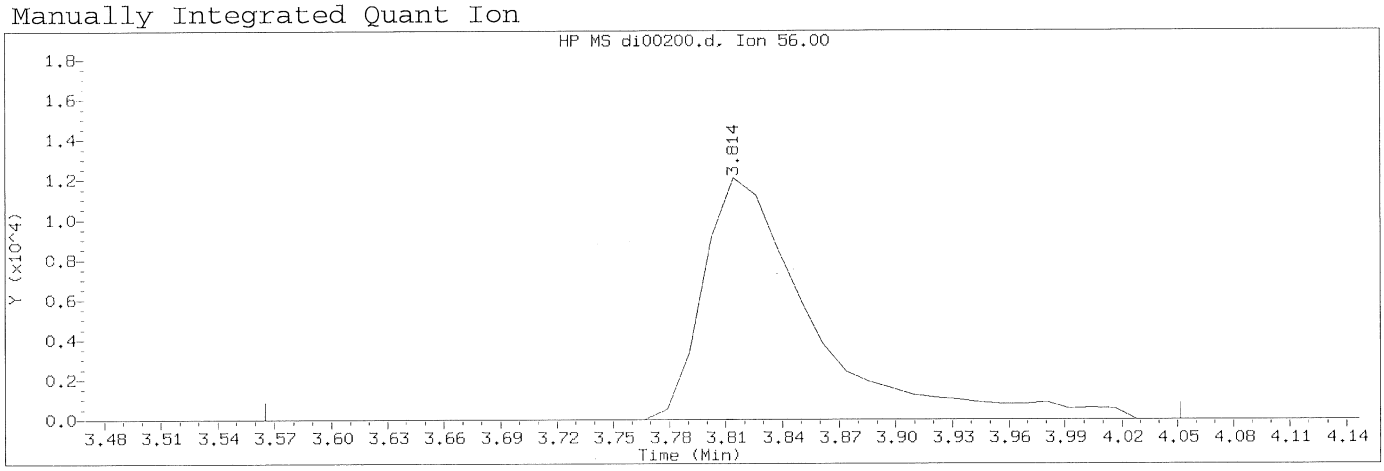
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 231		
Retention Time (minutes)	: 3.814		
Quant Ion	: 56.00		
Area (flag)	: 48899M		
Concentration (ppb(v))	: 3.6118		
Integration start scan	: 209	Integration stop scan:	250
Y at integration start	: 0	Y at integration end:	0

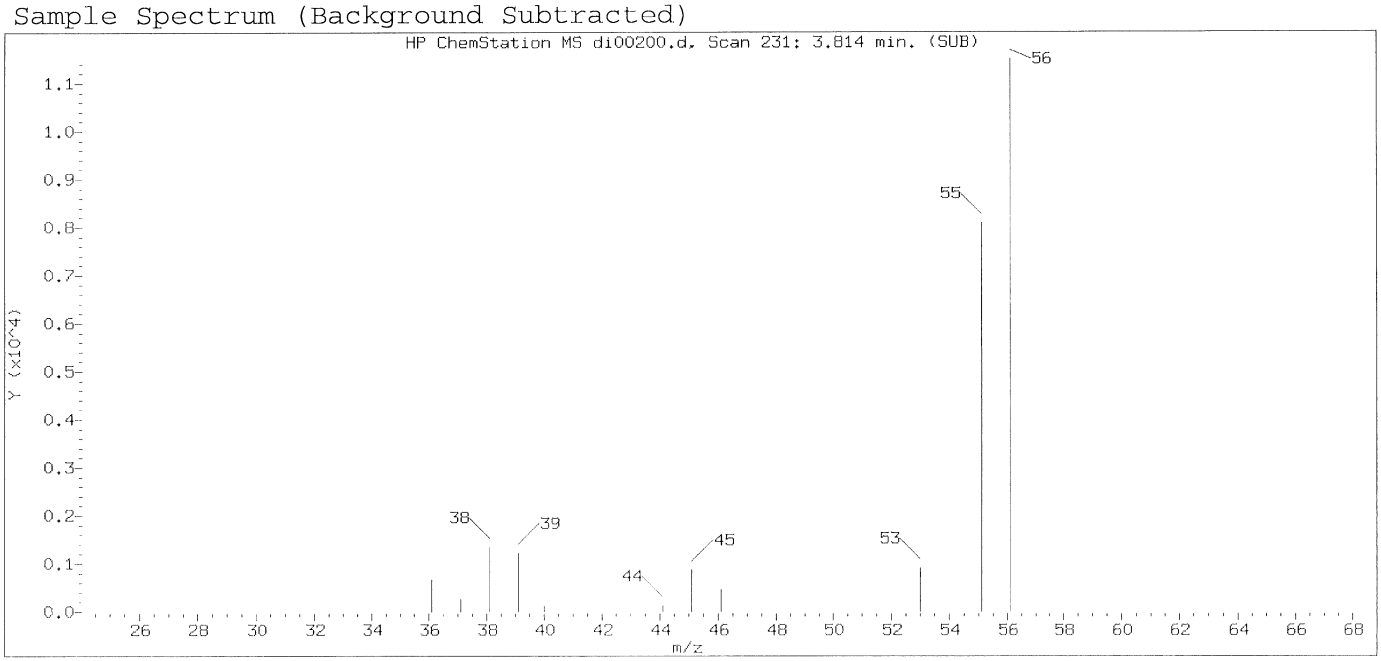
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

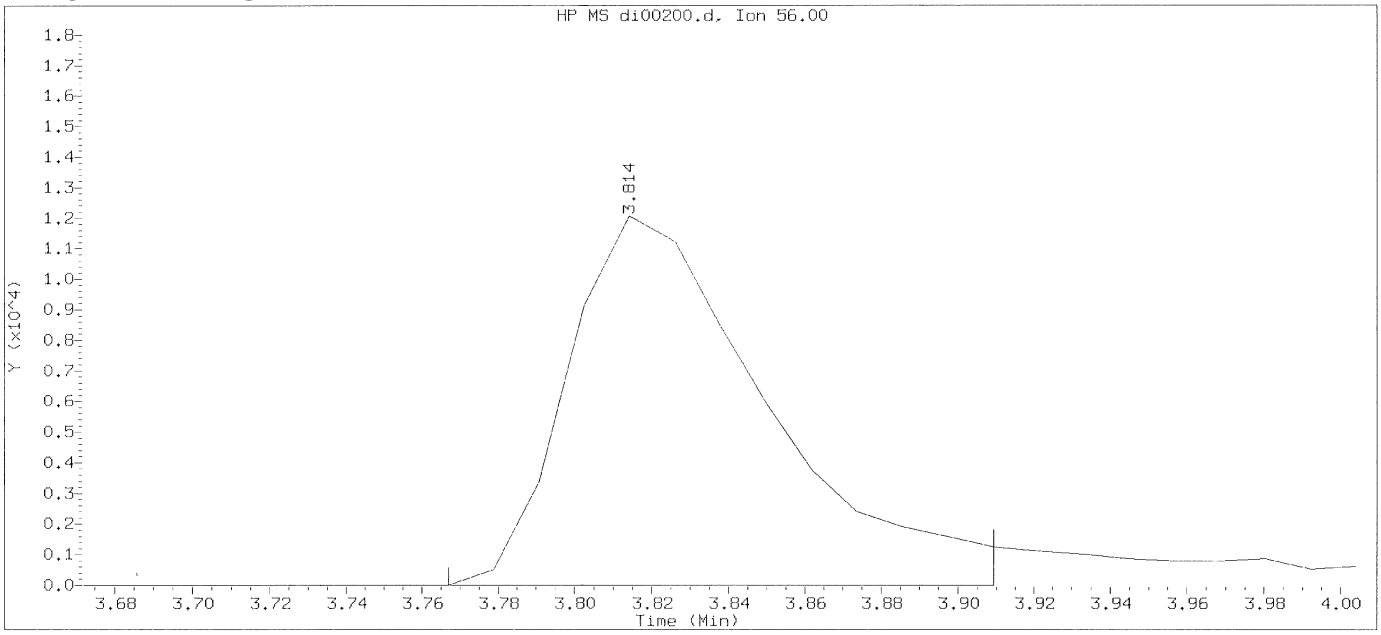
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 231		
Retention Time (minutes)	: 3.814		
Quant Ion	: 56.00		
Area	: 43366		
Concentration (ppb(v))	: 4.6962		
Integration start scan	: 226	Integration stop scan:	238
Y at integration start	: 0	Y at integration end:	0

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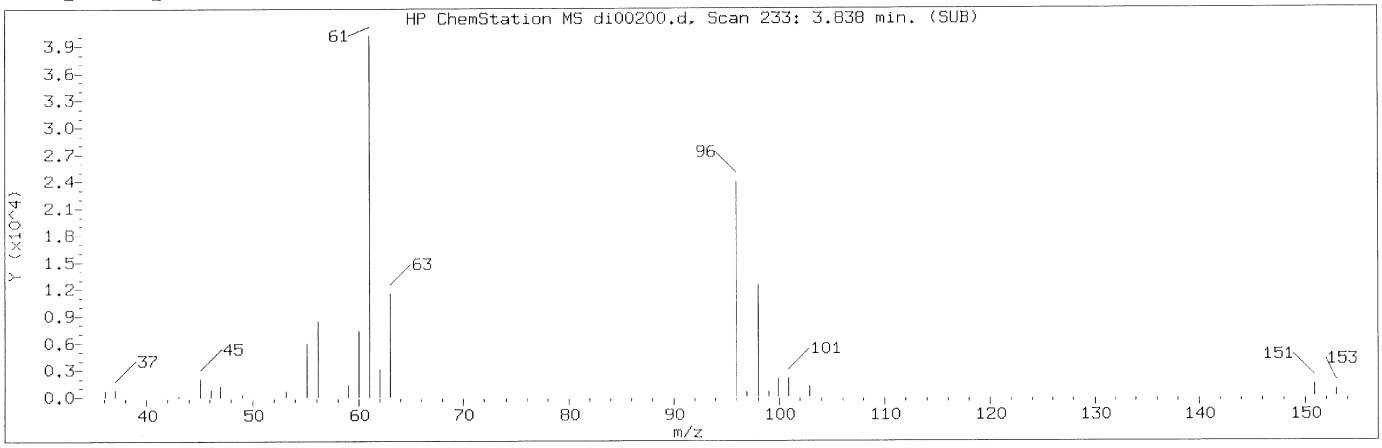
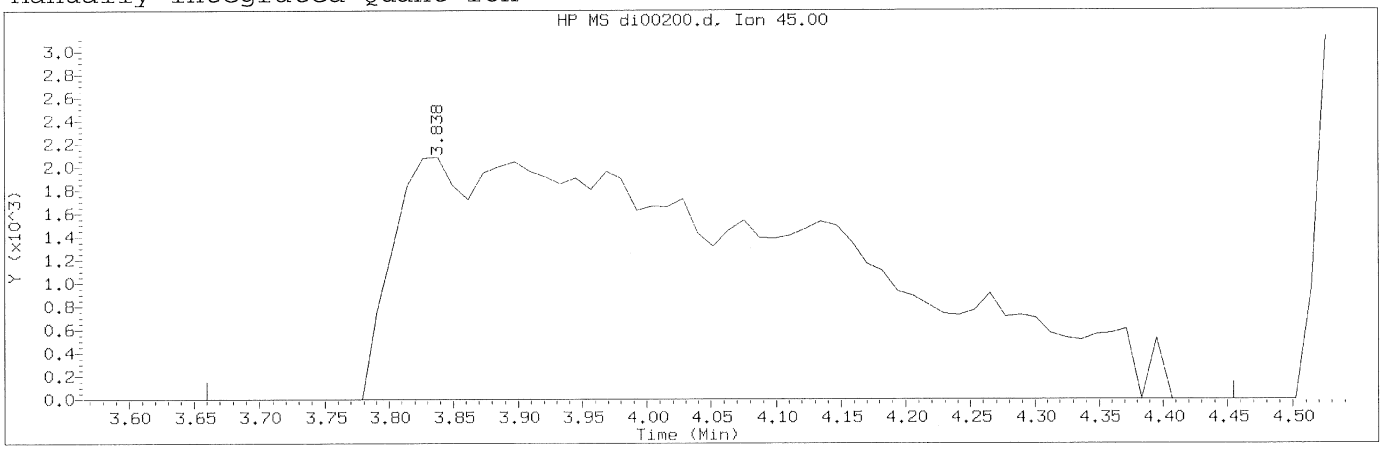
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 14		
Compound Name	: Ethanol		
Scan Number	: 233		
Retention Time (minutes)	: 3.838		
Quant Ion	: 45.00		
Area (flag)	: 47916M		
Concentration (ppb(v))	: 2.8195		
Integration start scan	: 217	Integration stop scan:	284
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

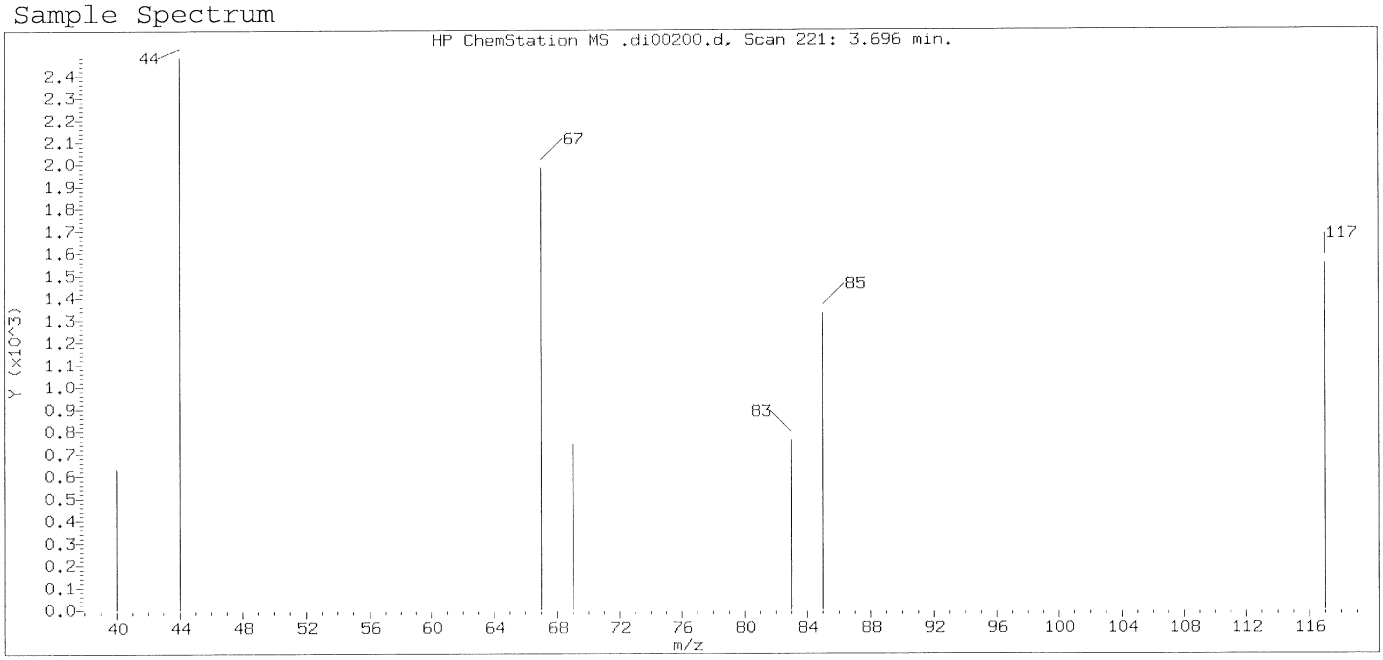
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

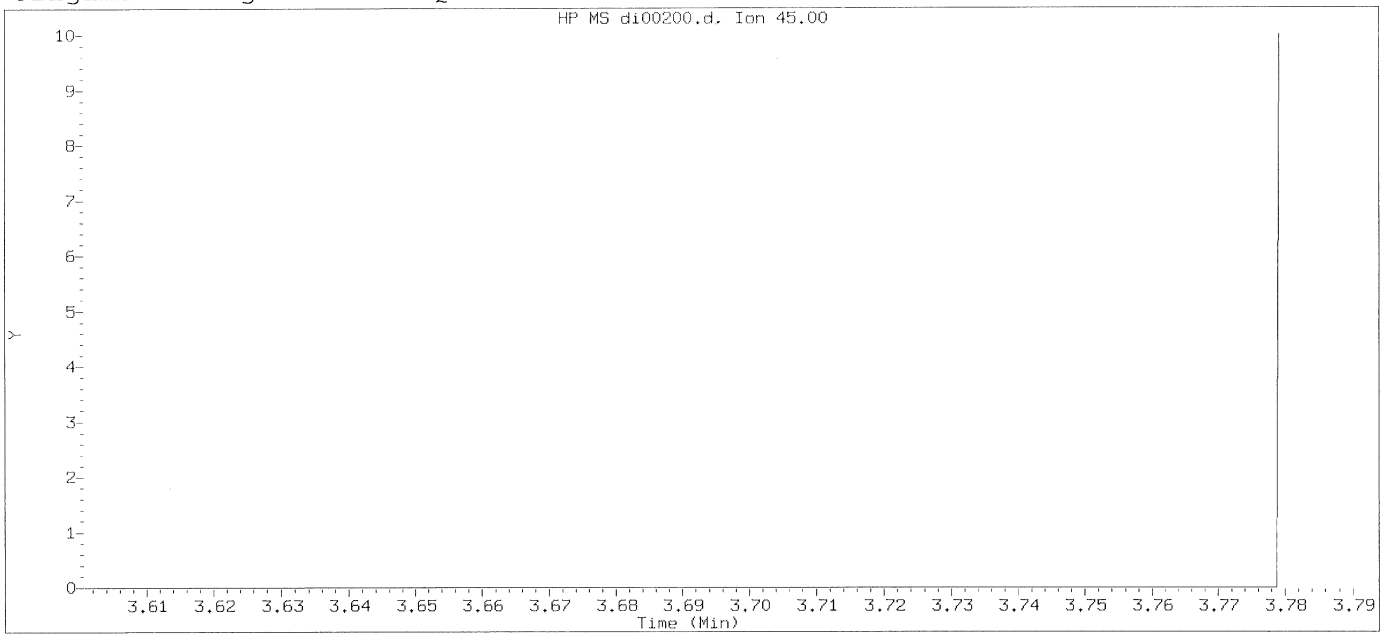
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.696
Quant Ion : 45.00

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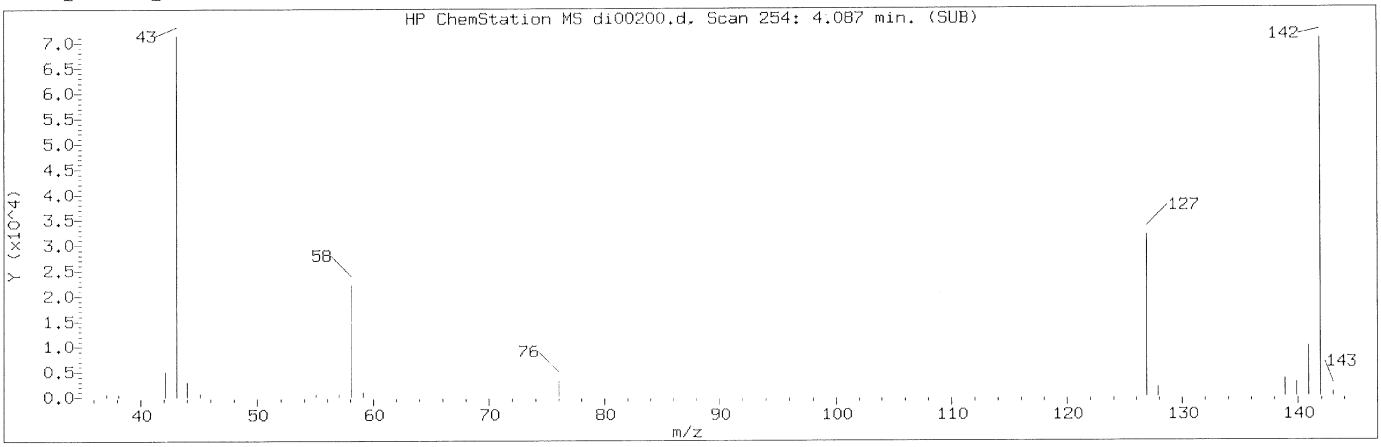
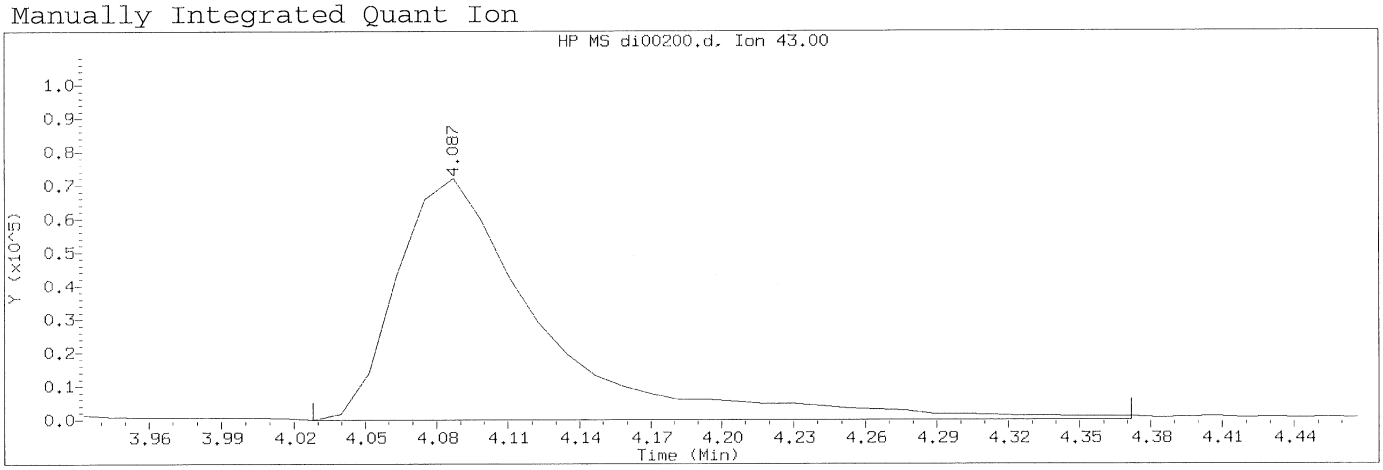
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 19		
Compound Name	: Acetone		
Scan Number	: 254		
Retention Time (minutes)	: 4.087		
Quant Ion	: 43.00		
Area (flag)	: 305492M		
Concentration (ppb(v))	: 4.8530		
Integration start scan	: 248	Integration stop scan:	277
Y at integration start	: 0	Y at integration end:	0

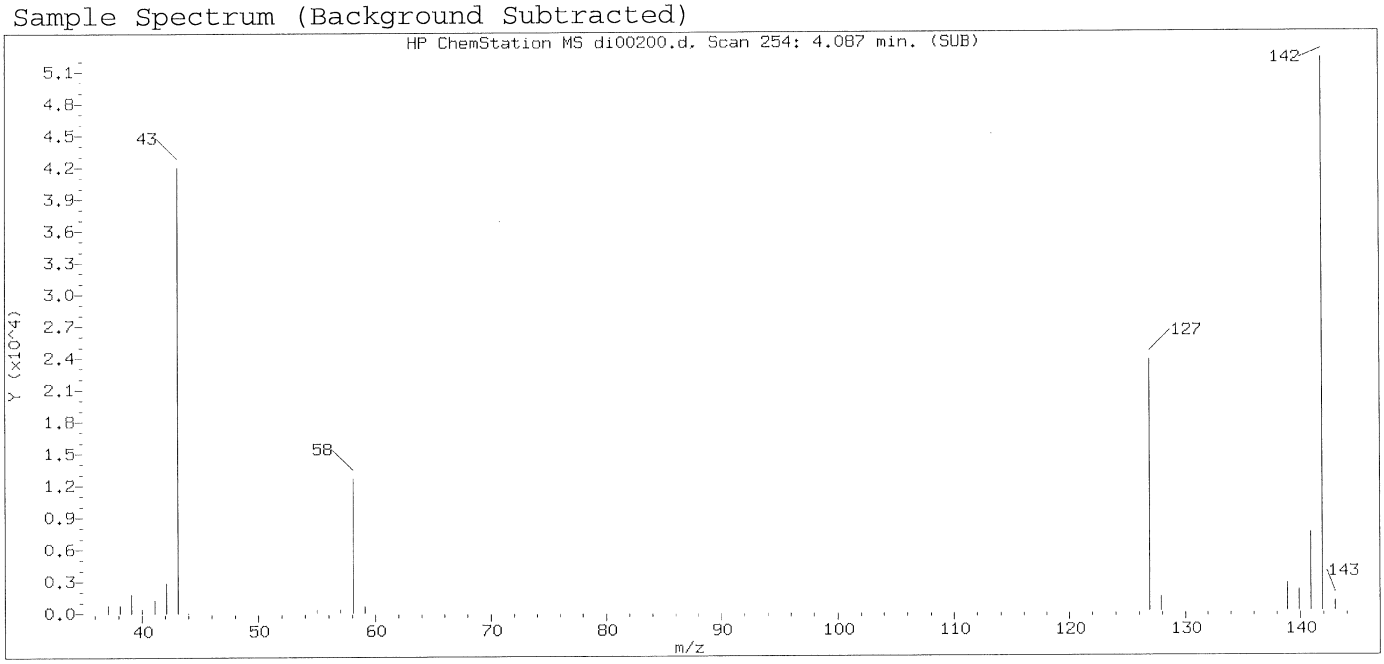
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

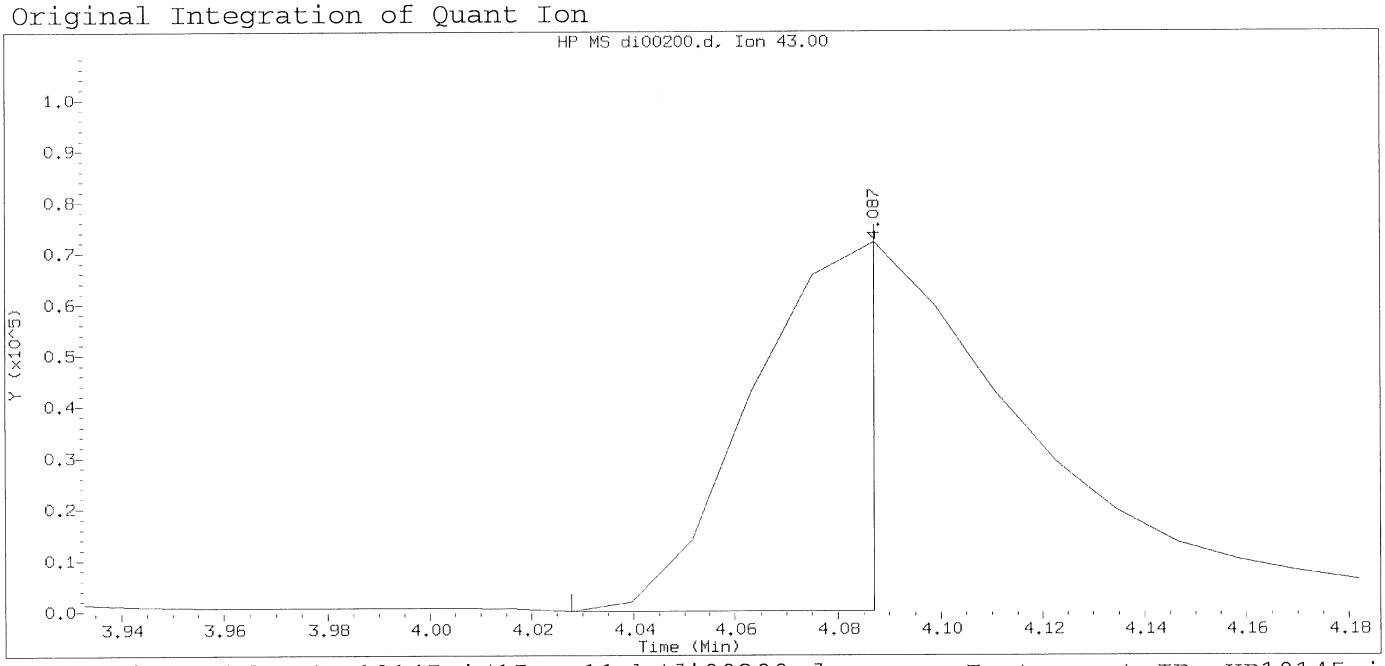
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

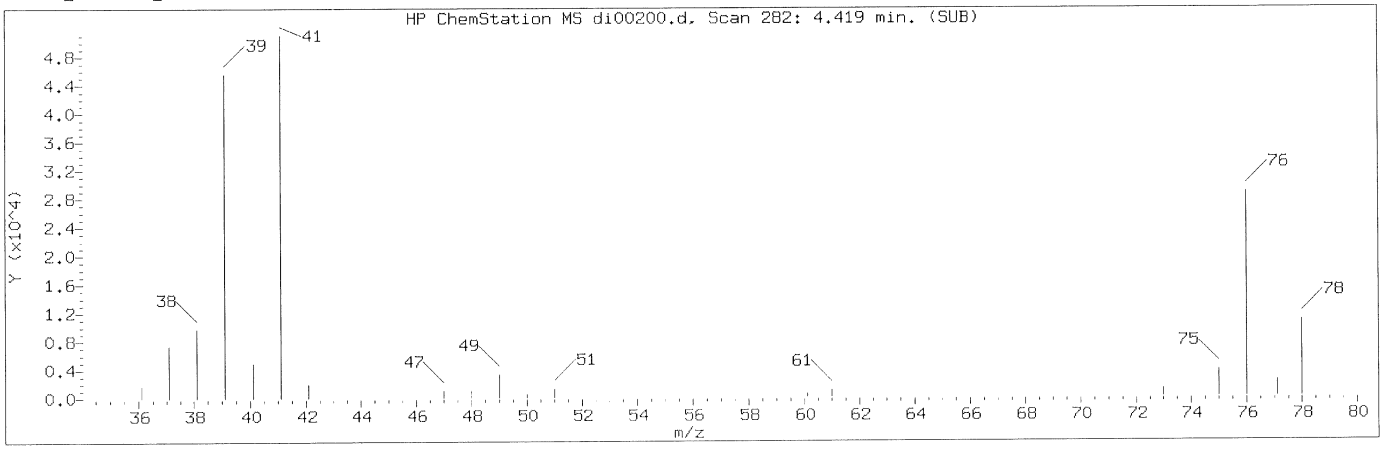
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

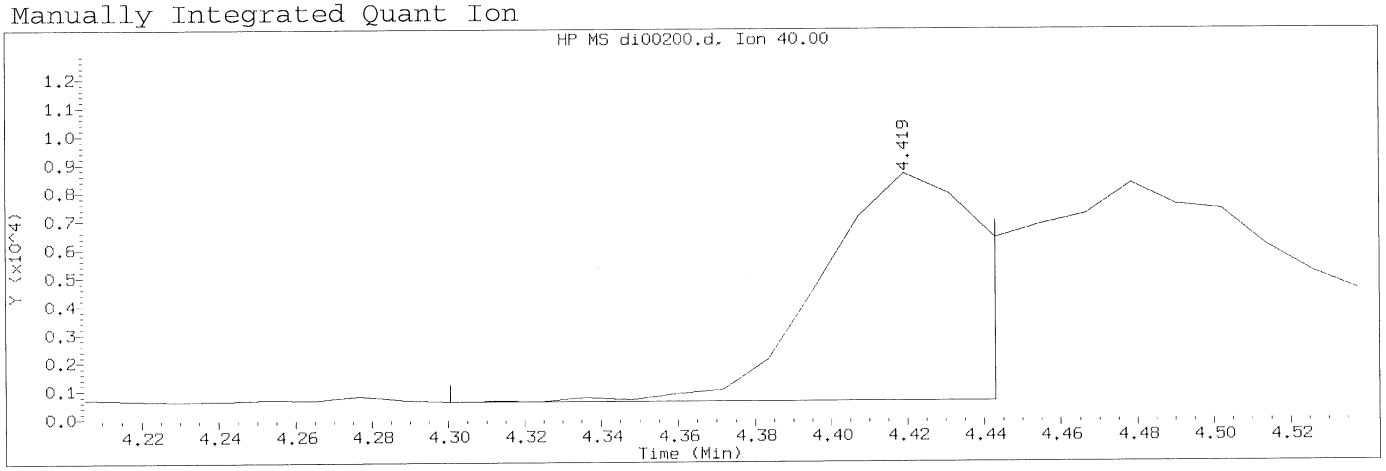
Compound Number	: 19		
Compound Name	: Acetone		
Scan Number	: 254		
Retention Time (minutes)	: 4.087		
Quant Ion	: 43.00		
Area	: 114184		
Concentration (ppb(v))	: 2.4244		
Integration start scan	: 248	Integration stop scan:	253
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 282		
Retention Time (minutes)	: 4.419		
Quant Ion	: 40.00		
Area (flag)	: 24207M		
Concentration (ppb(v))	: 2.2706		
Integration start scan	: 271	Integration stop scan:	283
Y at integration start	: 591	Y at integration end:	591

Reason for manual integration: improper integration

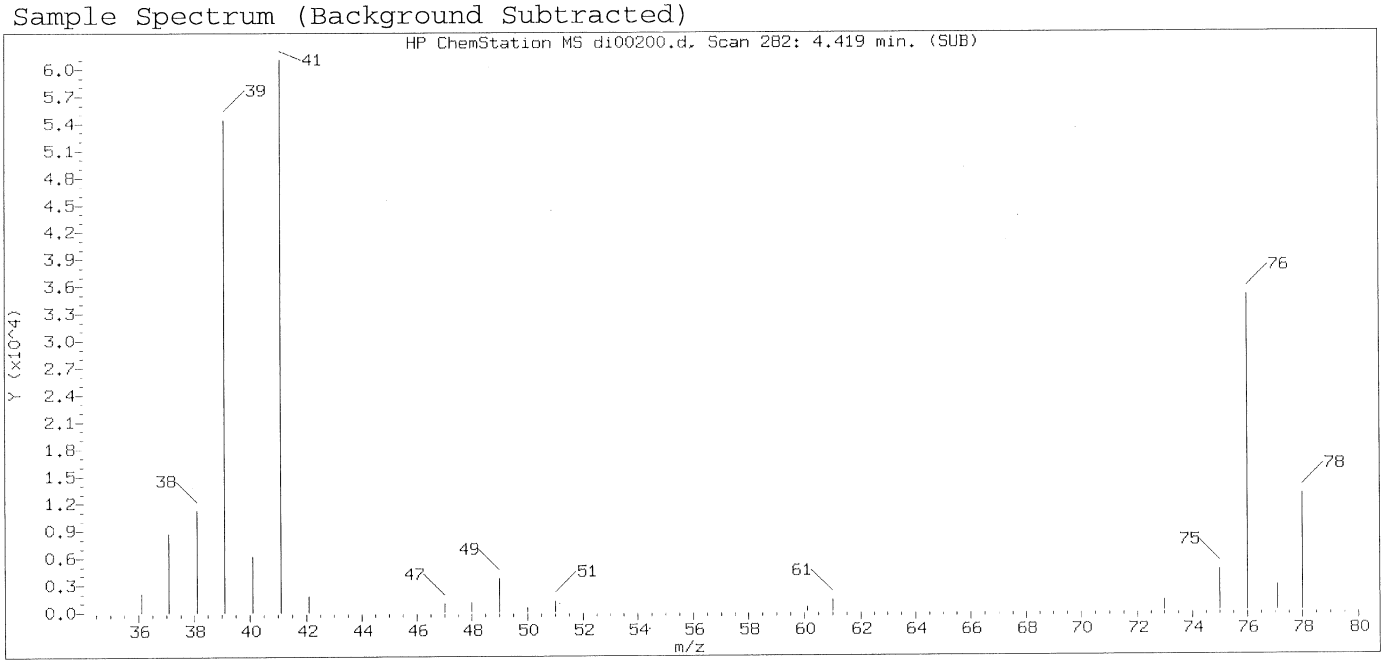
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

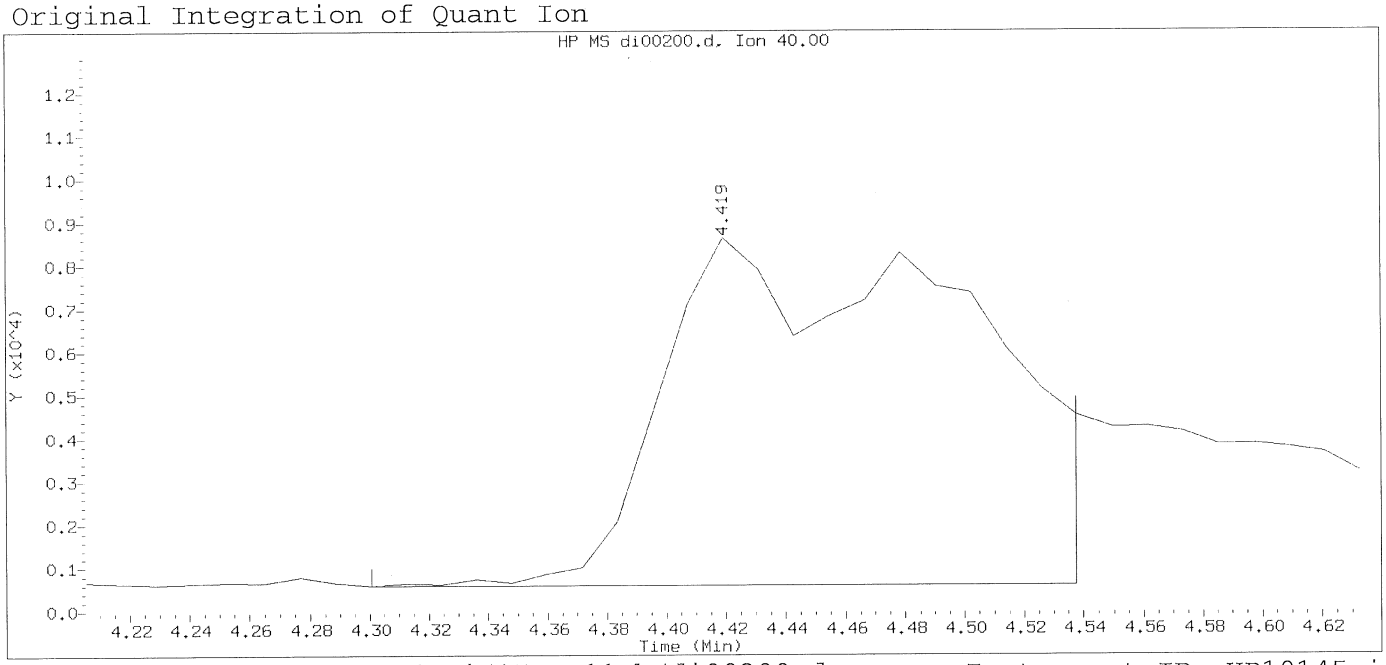
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

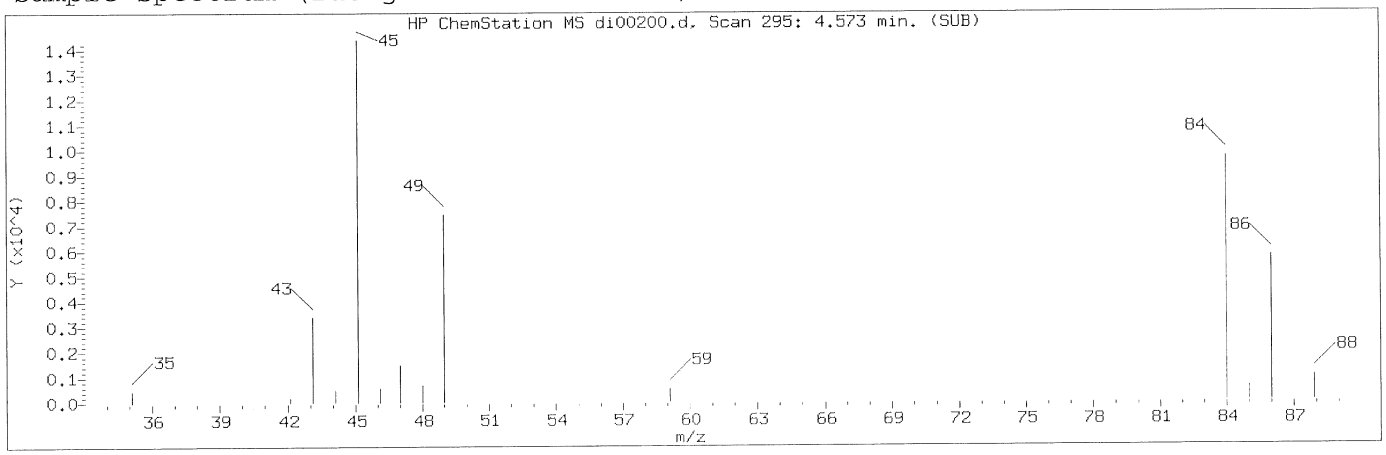
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

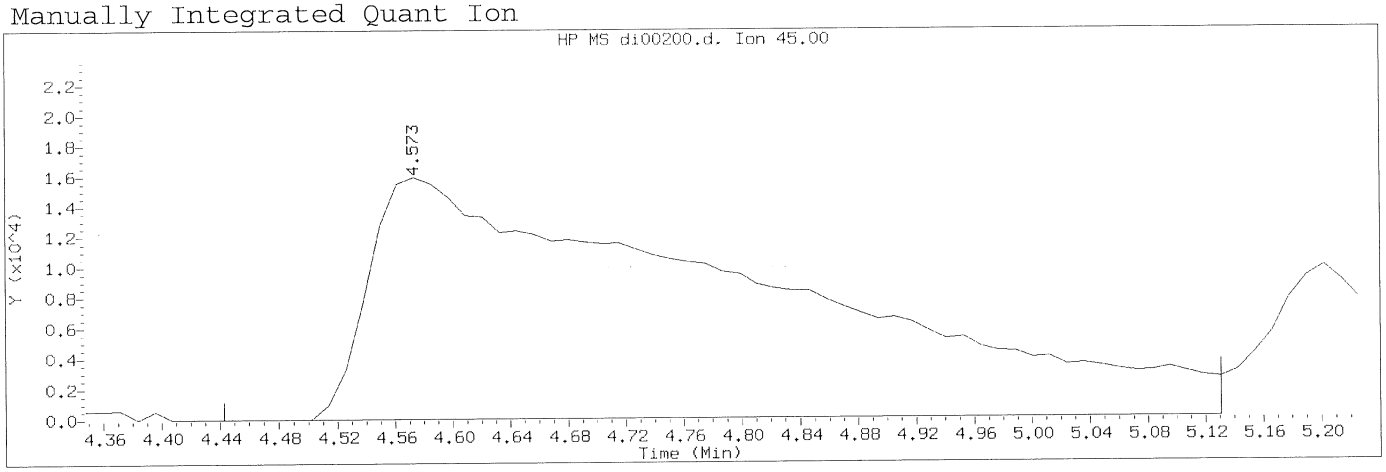
Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 282		
Retention Time (minutes)	: 4.419		
Quant Ion	: 40.00		
Area	: 57059		
Concentration (ppb(v))	: 3.0609		
Integration start scan	: 271	Integration stop scan:	291
Y at integration start	: 591	Y at integration end:	591

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 295		
Retention Time (minutes)	: 4.573		
Quant Ion	: 45.00		
Area (flag)	: 300495M		
Concentration (ppb(v))	: 4.1513		
Integration start scan	: 283	Integration stop scan:	341
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

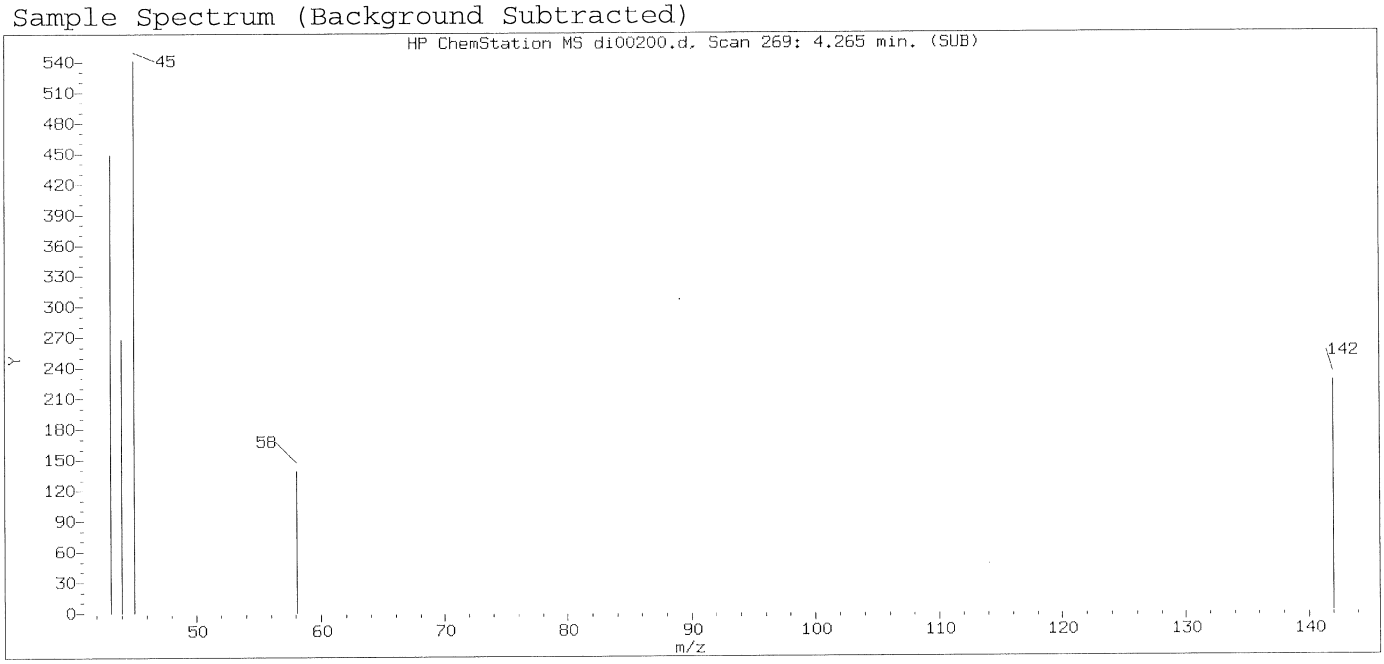
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

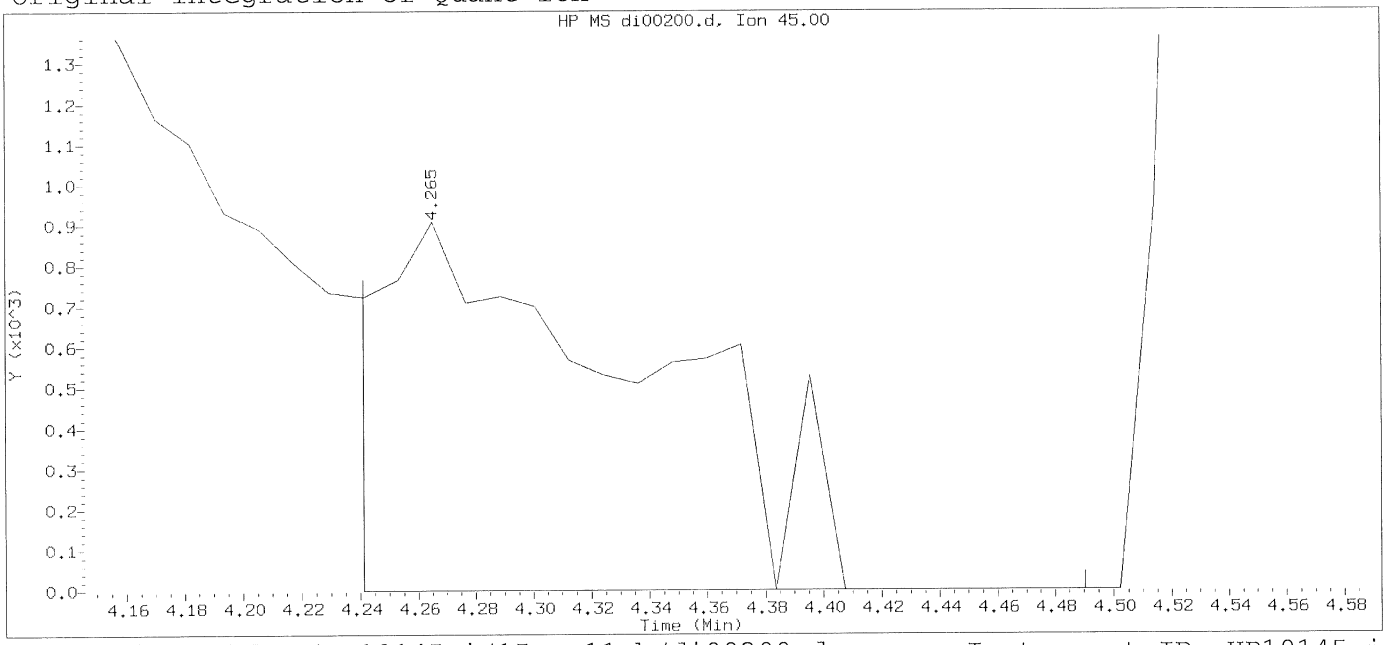
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

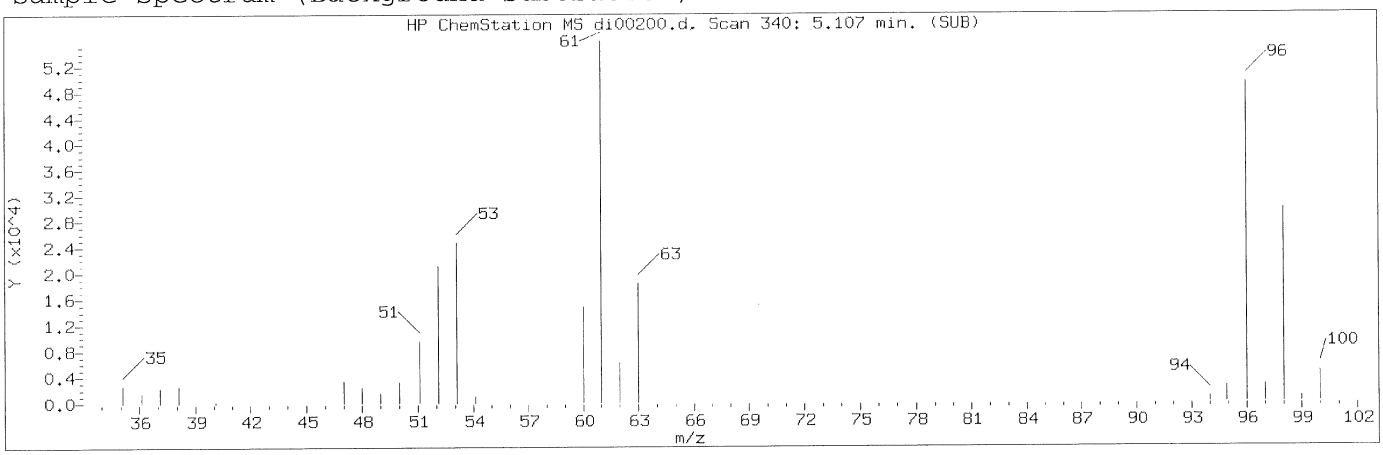
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

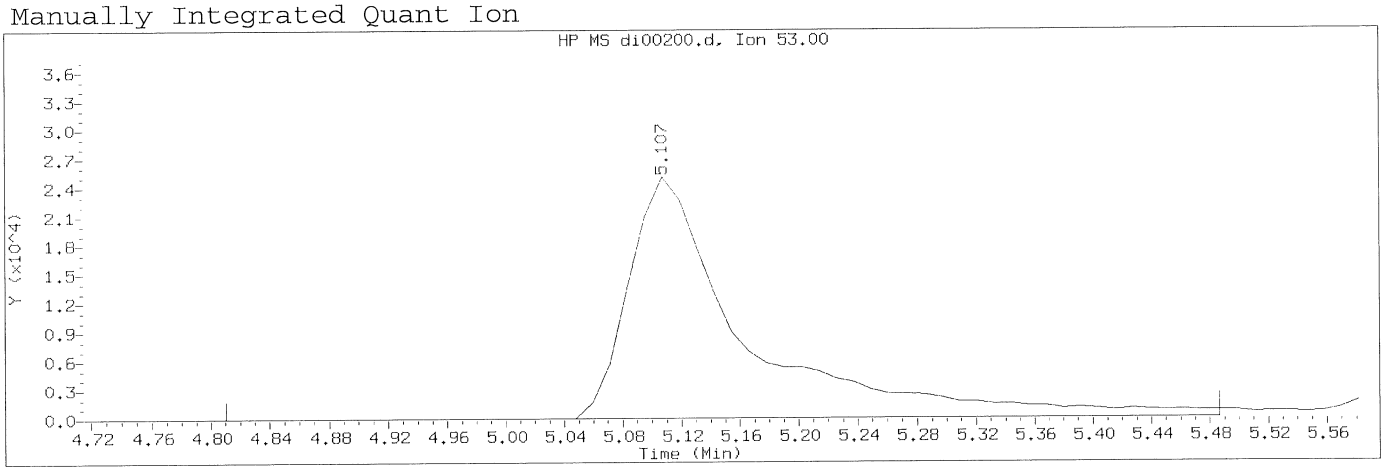
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 269		
Retention Time (minutes)	: 4.265		
Quant Ion	: 45.00		
Area	: 5722		
Concentration (ppb(v))	: 0.0937		
Integration start scan	: 266	Integration stop scan:	287
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 340		
Retention Time (minutes)	: 5.107		
Quant Ion	: 53.00		
Area (flag)	: 138712M		
Concentration (ppb(v))	: 5.2290		
Integration start scan	: 314	Integration stop scan:	371
Y at integration start	: 0	Y at integration end:	0

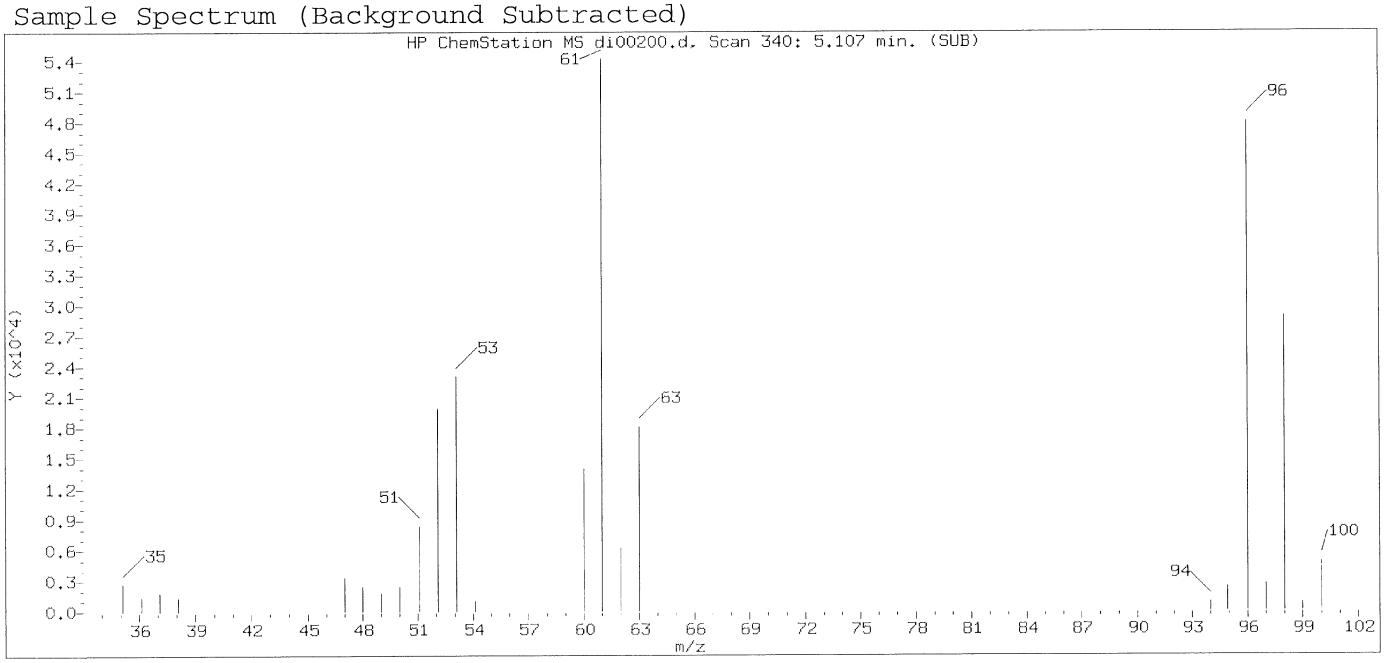
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

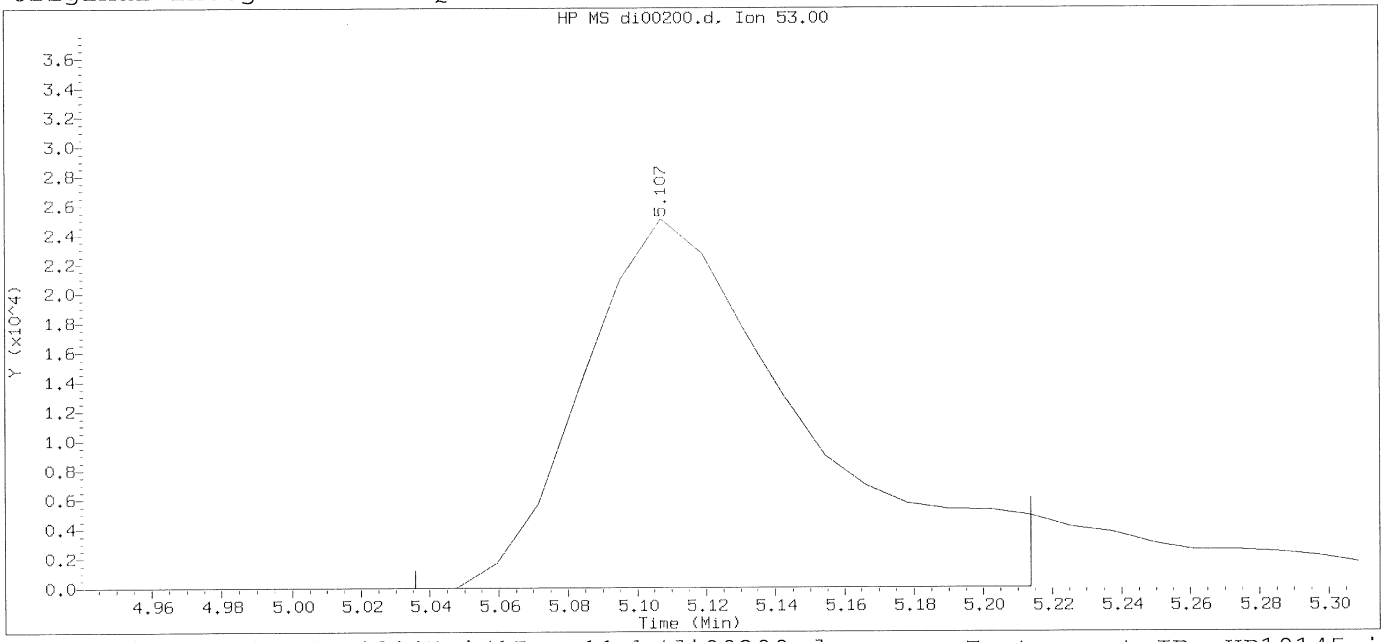
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

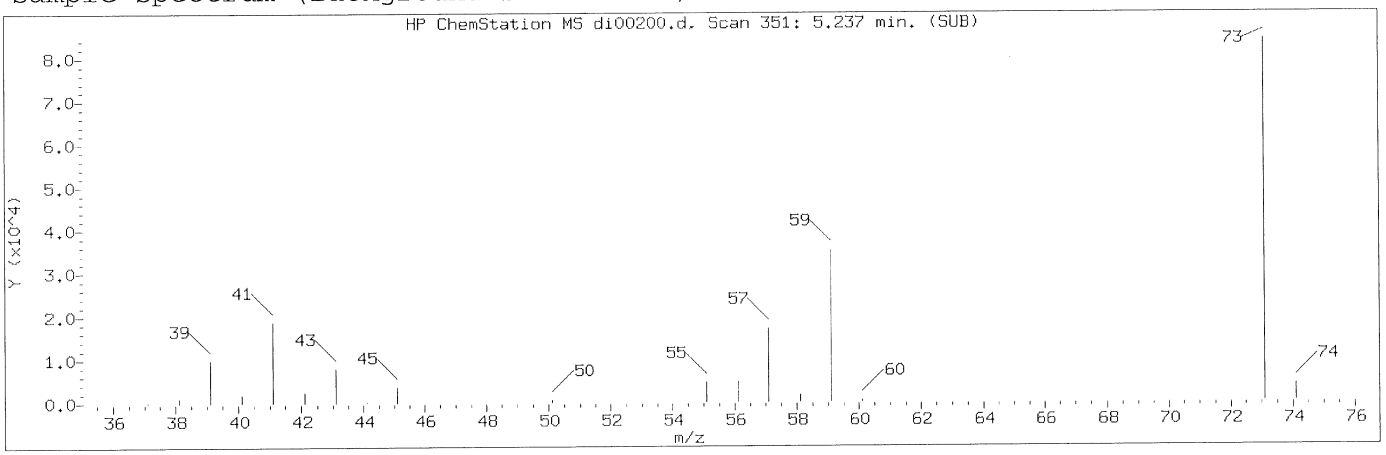
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

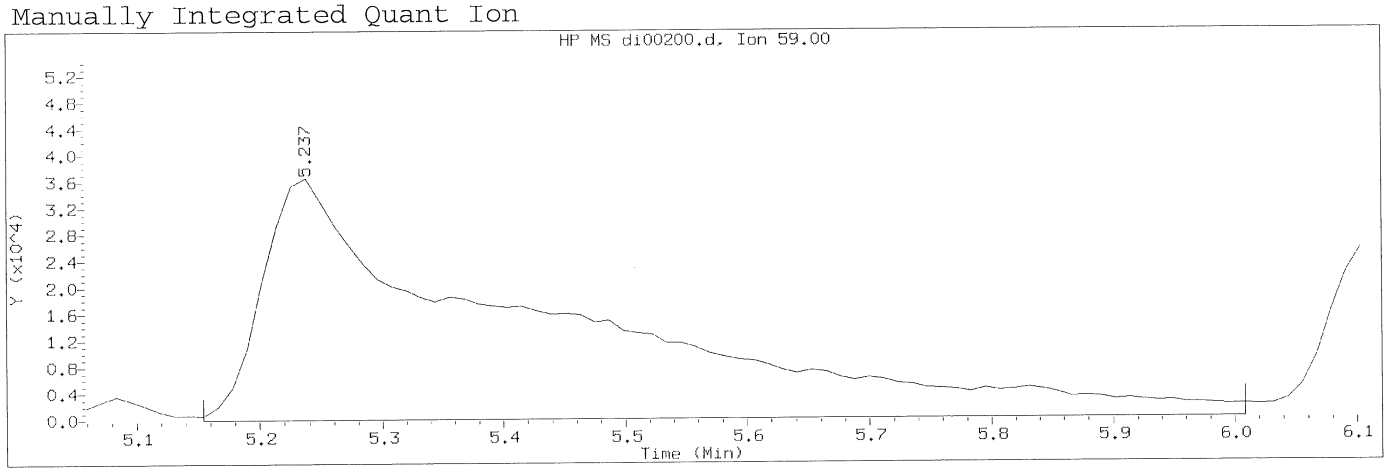
Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 340		
Retention Time (minutes)	: 5.107		
Quant Ion	: 53.00		
Area	: 110097		
Concentration (ppb(v))	: 5.6674		
Integration start scan	: 333	Integration stop scan:	348
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 351		
Retention Time (minutes)	: 5.237		
Quant Ion	: 59.00		
Area (flag)	: 571820M		
Concentration (ppb(v))	: 5.2600		
Integration start scan	: 343	Integration stop scan:	415
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

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Senior Specialist

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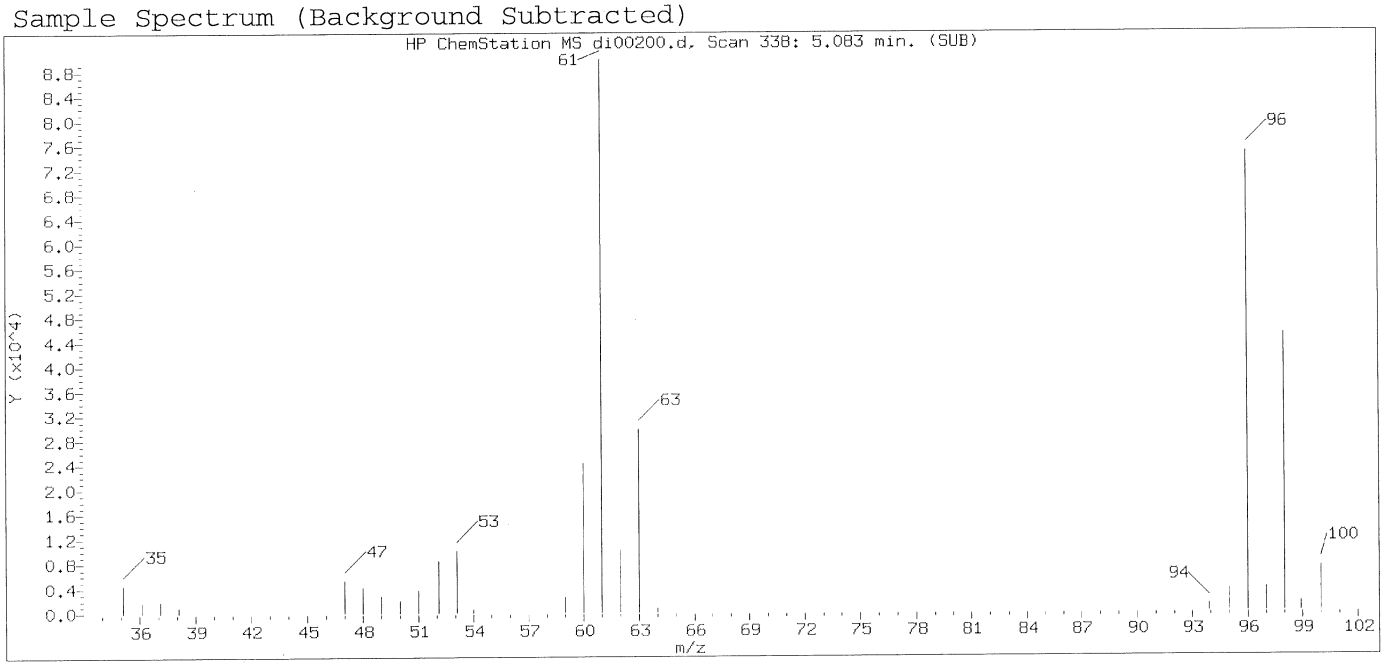
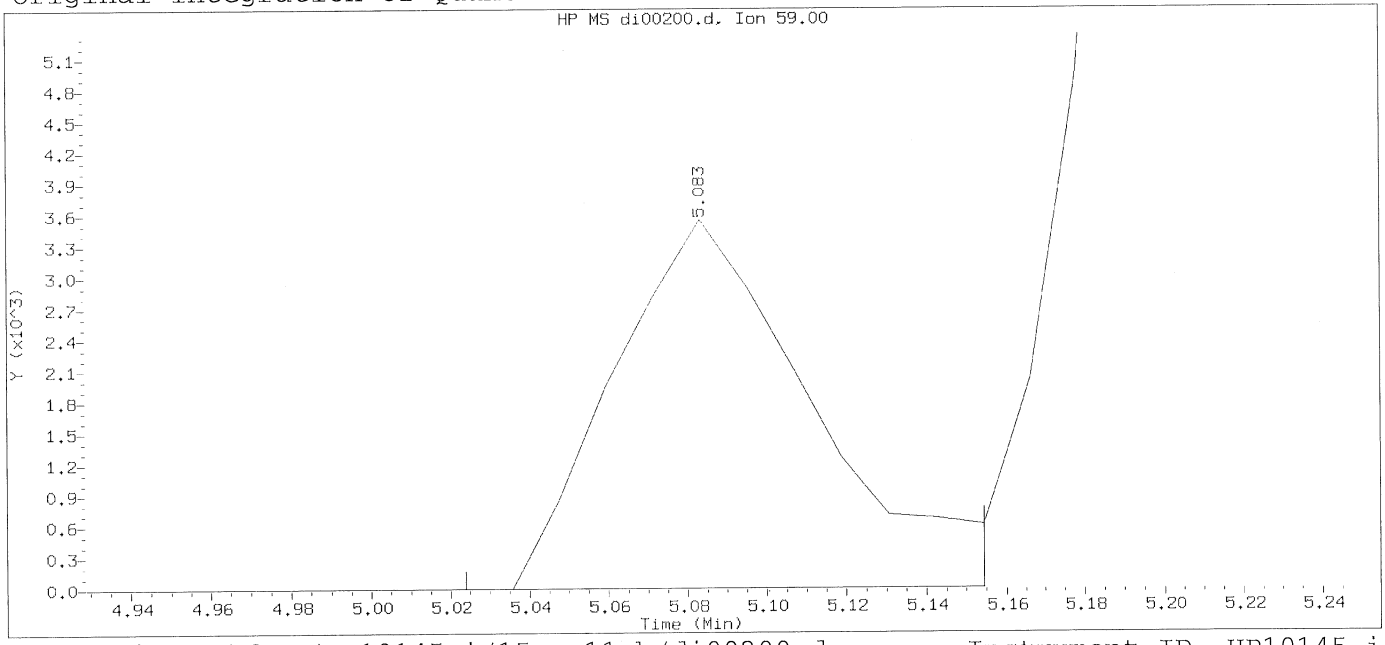
Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 338		
Retention Time (minutes)	: 5.083		
Quant Ion	: 59.00		
Area	: 12178		
Concentration (ppb(v))	: 0.1526		
Integration start scan	: 332	Integration stop scan:	343
Y at integration start	: 0	Y at integration end:	0

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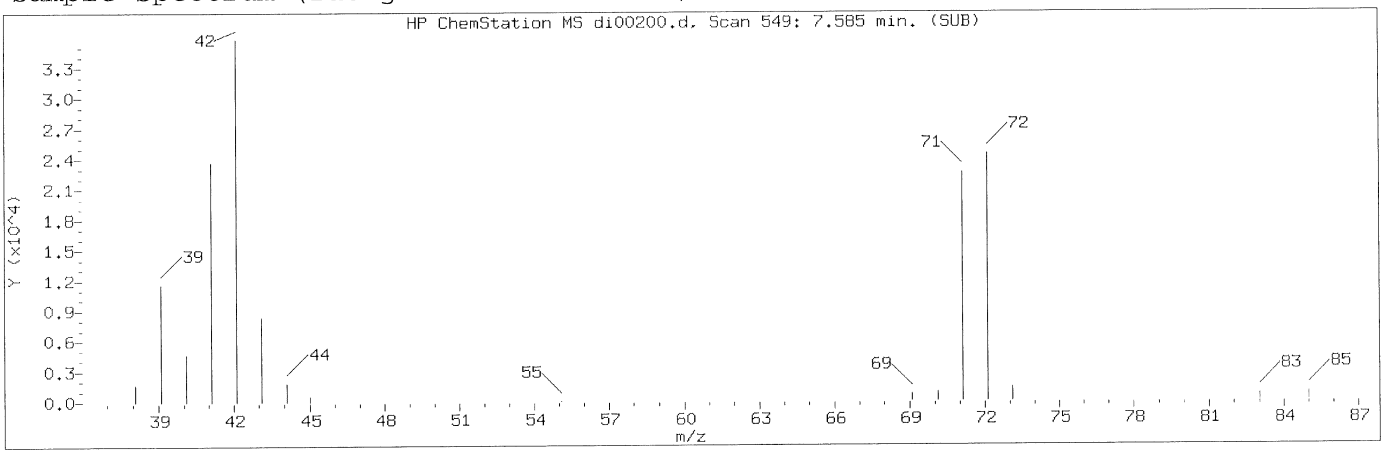
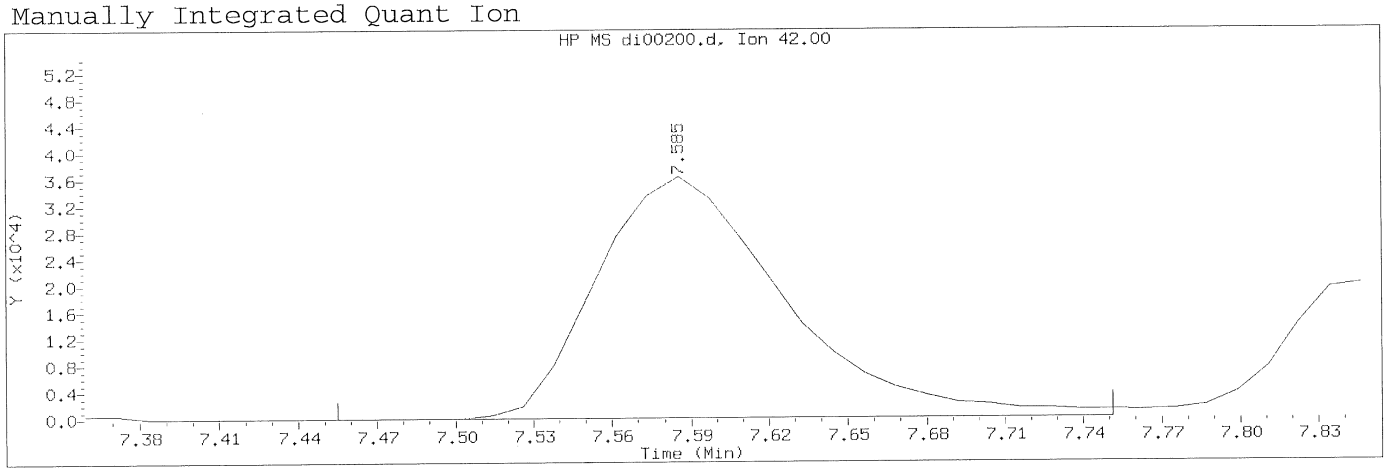
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 41		
Compound Name	: Tetrahydrofuran		
Scan Number	: 549		
Retention Time (minutes)	: 7.585		
Quant Ion	: 42.00		
Area (flag)	: 180613M		
Concentration (ppb(v))	: 4.6408		
Integration start scan	: 537	Integration stop scan:	562
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

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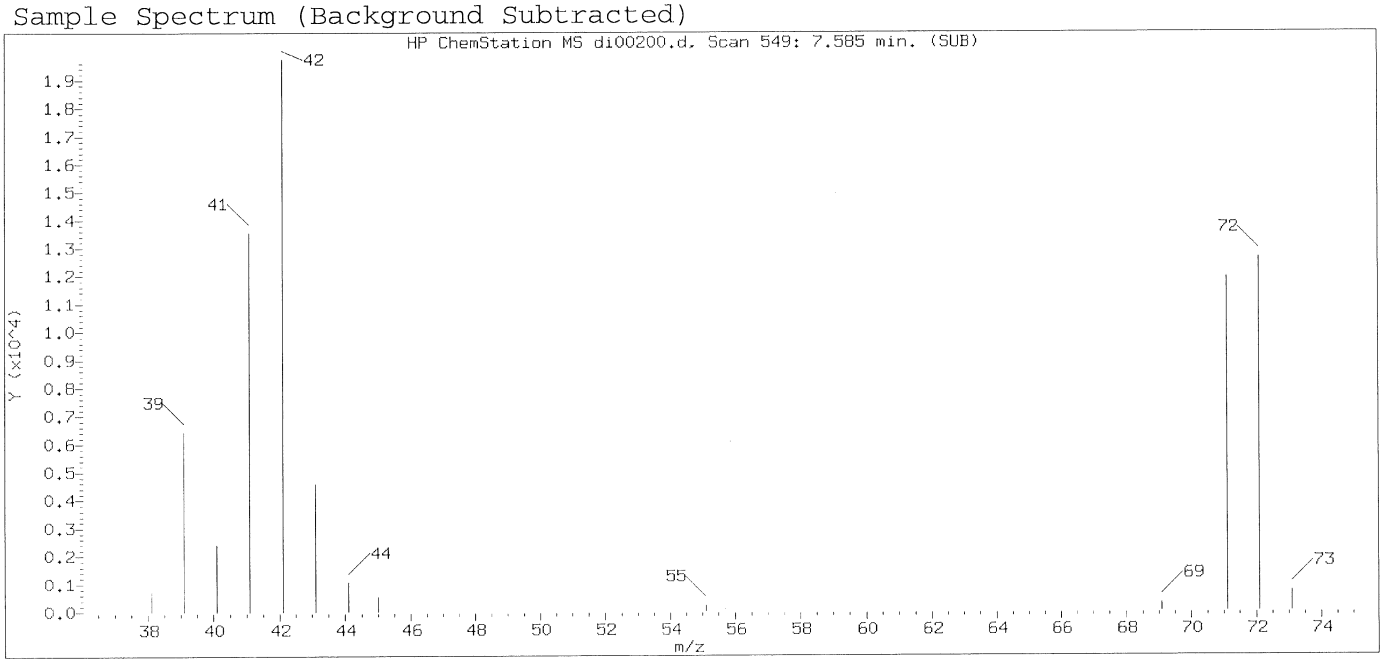
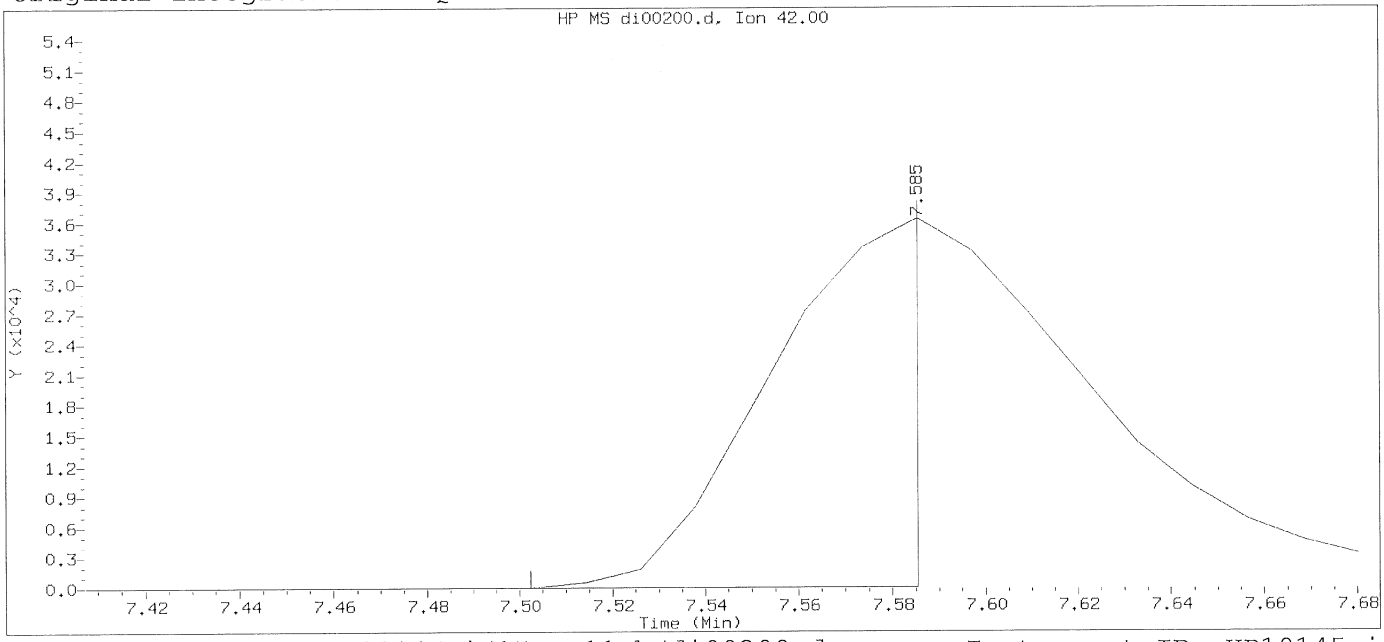
Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

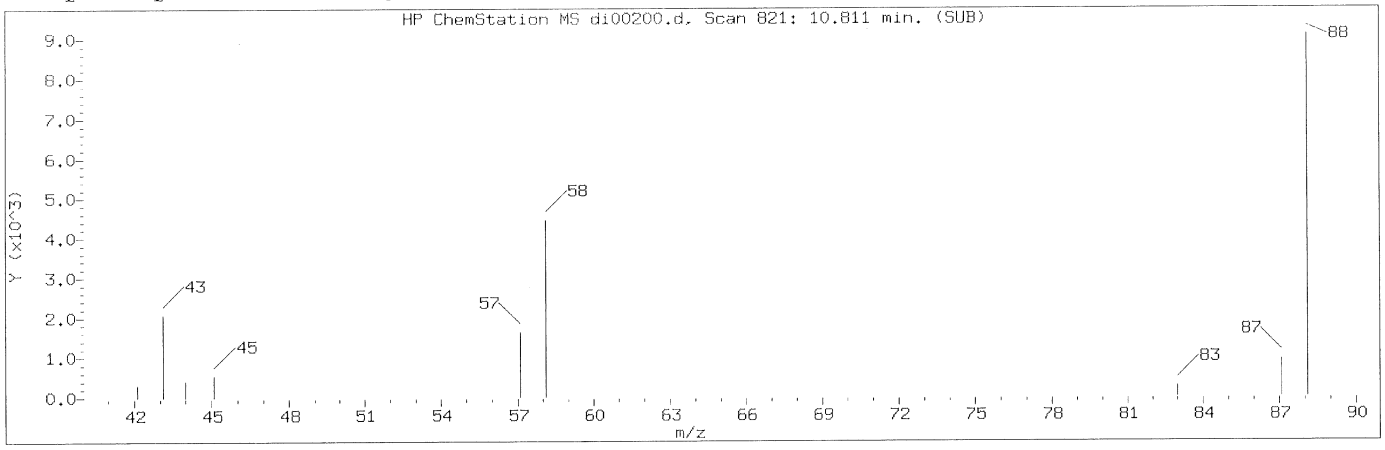
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

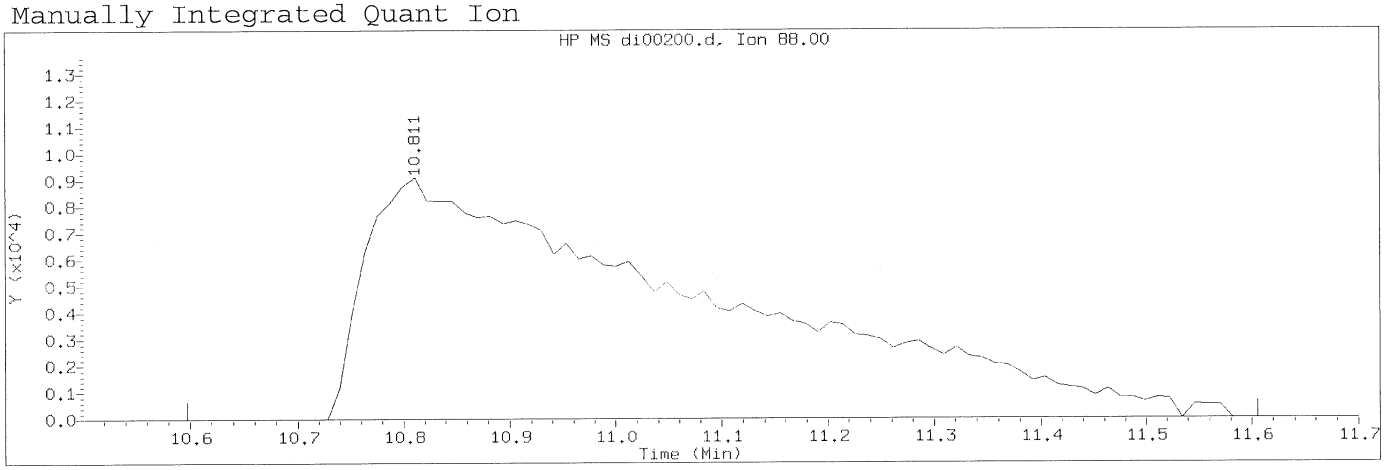
Compound Number	: 41		
Compound Name	: Tetrahydrofuran		
Scan Number	: 549		
Retention Time (minutes)	: 7.585		
Quant Ion	: 42.00		
Area	: 76025		
Concentration (ppb(v))	: 3.0390		
Integration start scan	: 541	Integration stop scan:	548
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 821
Retention Time (minutes): 10.811
Quant Ion : 88.00
Area (flag) : 202556M
Concentration (ppb(v)) : 4.7895
Integration start scan : 802 Integration stop scan: 887
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

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SEP 15 2015

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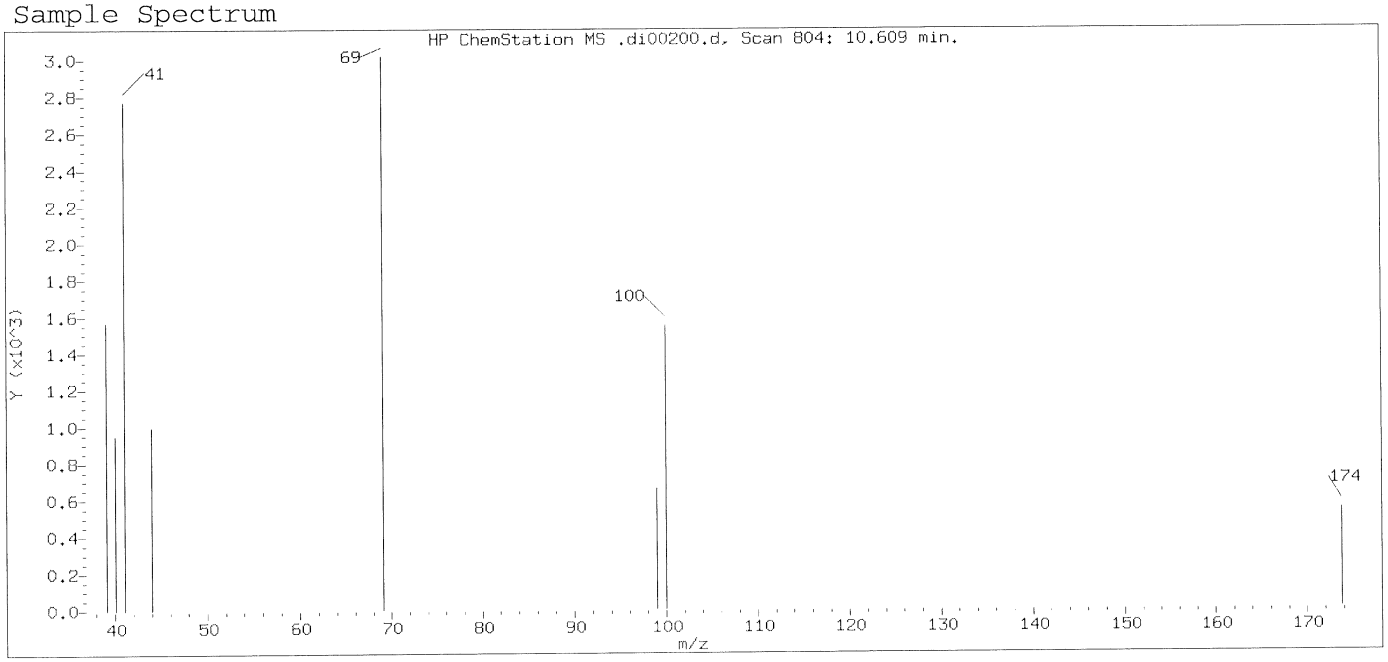
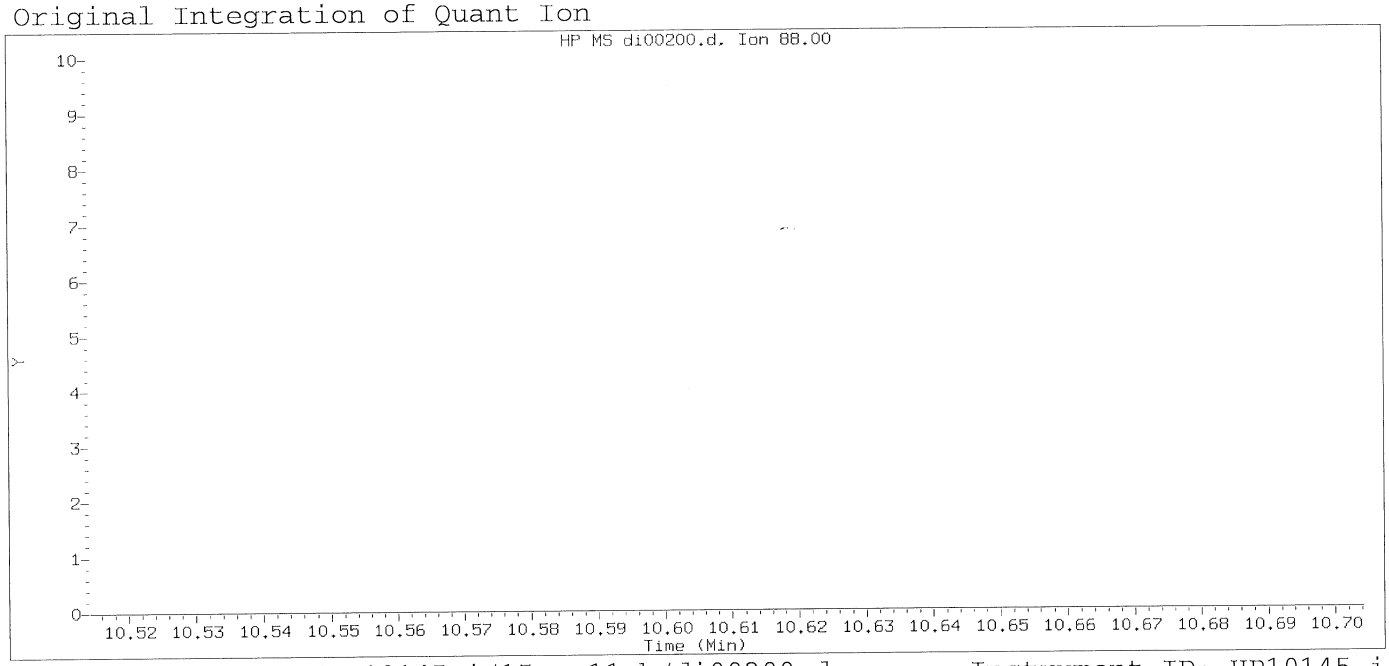
Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

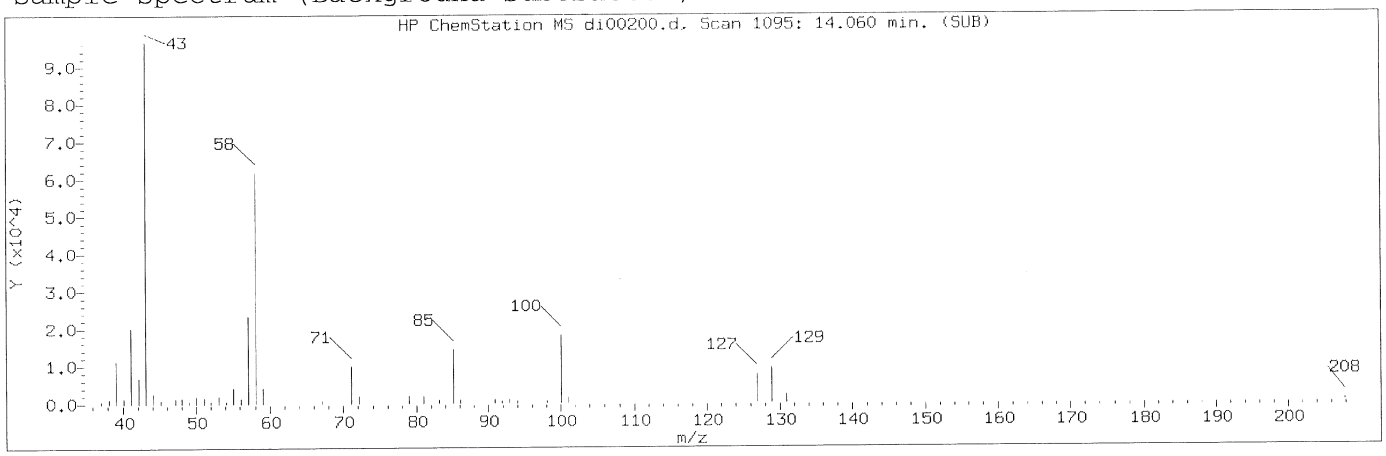
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

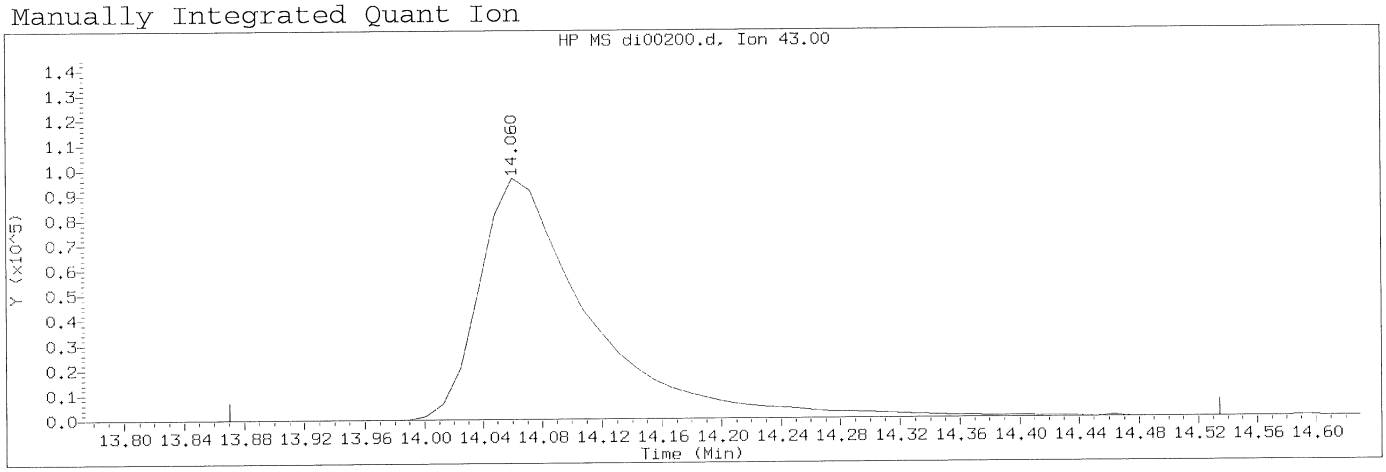
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.609
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1095
Retention Time (minutes): 14.060
Quant Ion : 43.00
Area (flag) : 498661M
Concentration (ppb(v)) : 5.2748
Integration start scan : 1078 Integration stop scan: 1134
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

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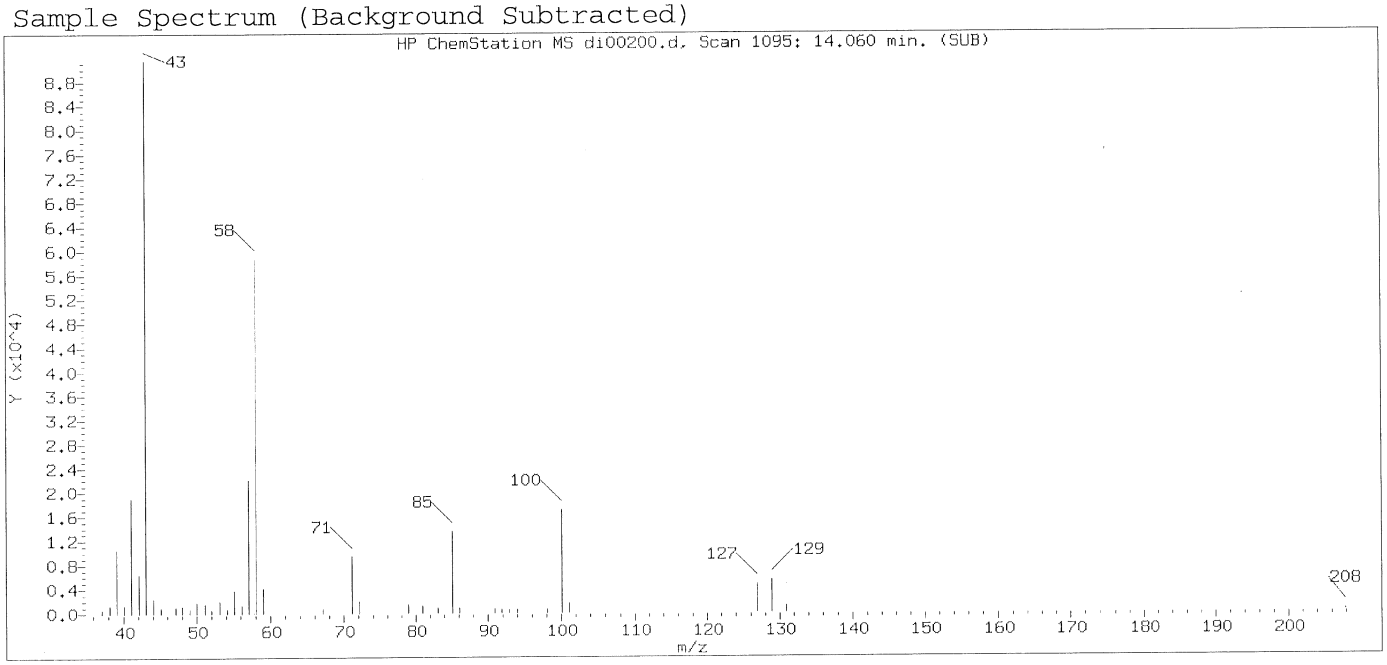
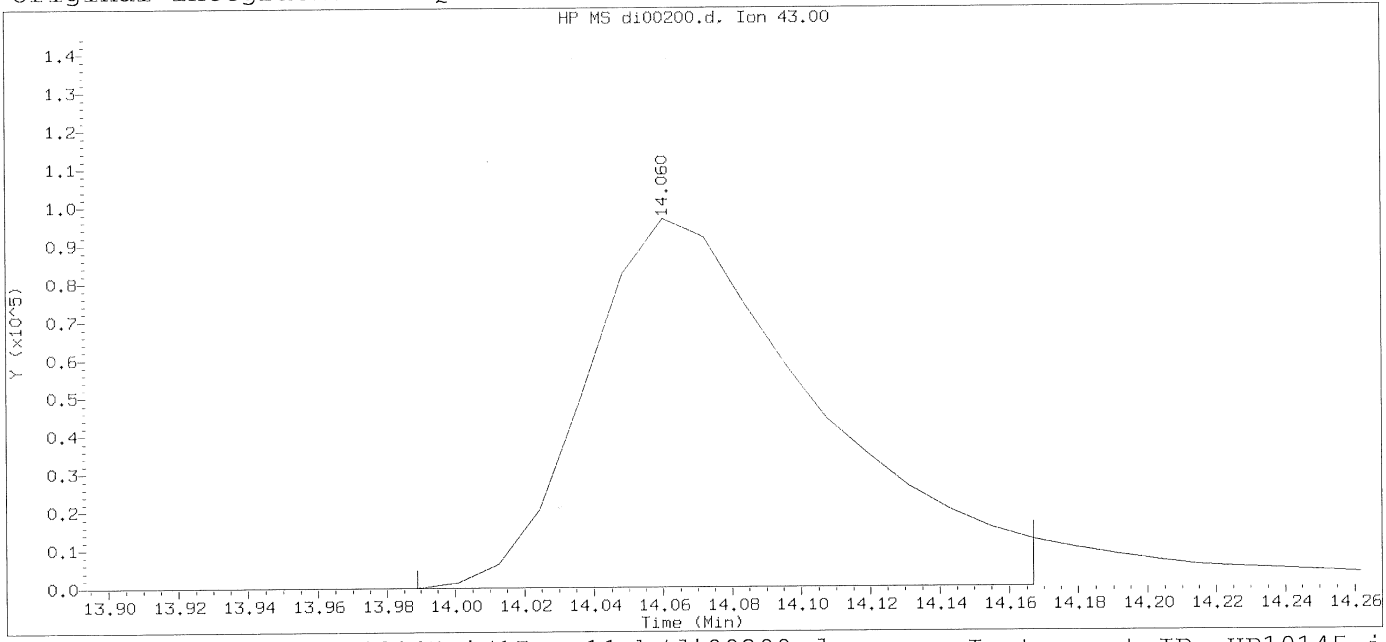
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

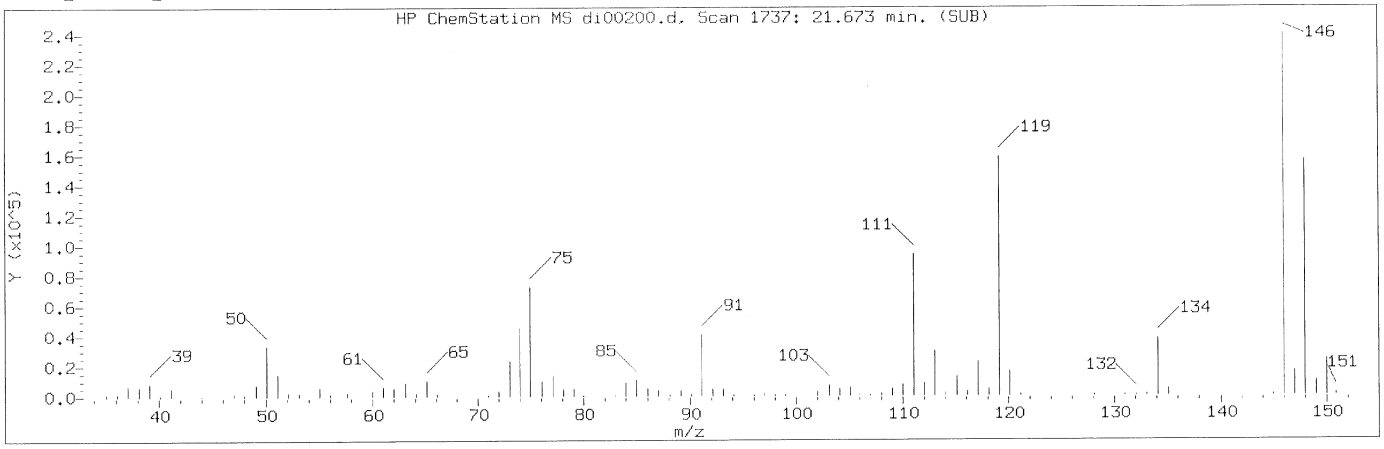
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

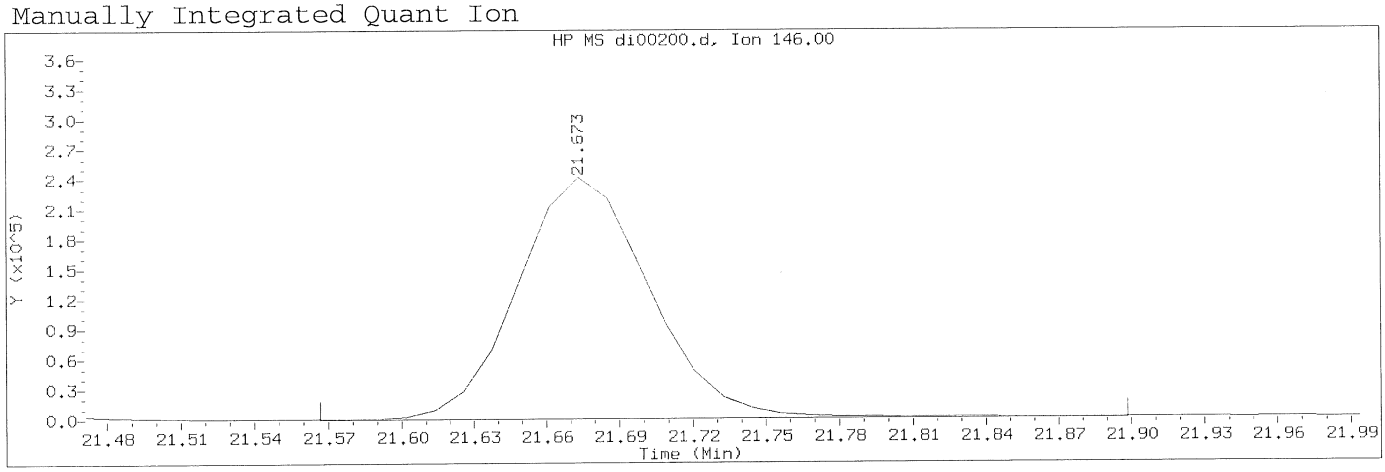
Compound Number	: 68		
Compound Name	: 2-Hexanone		
Scan Number	: 1095		
Retention Time (minutes)	: 14.060		
Quant Ion	: 43.00		
Area	: 446429		
Concentration (ppb(v))	: 5.9842		
Integration start scan	: 1088	Integration stop scan:	1103
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 93
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1737
Retention Time (minutes): 21.673
Quant Ion : 146.00
Area (flag) : 905847M
Concentration (ppb(v)) : 4.6769
Integration start scan : 1727 Integration stop scan: 1755
Y at integration start : 276 Y at integration end: 276

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

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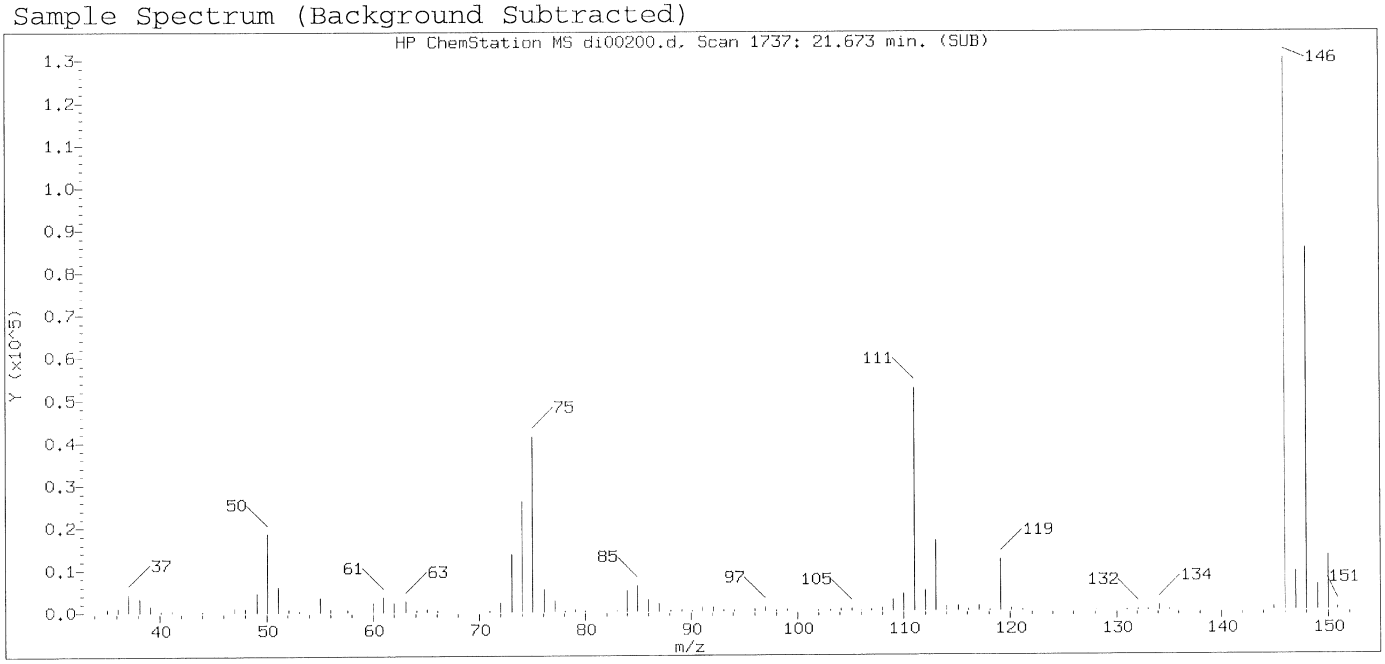
Senior Specialist

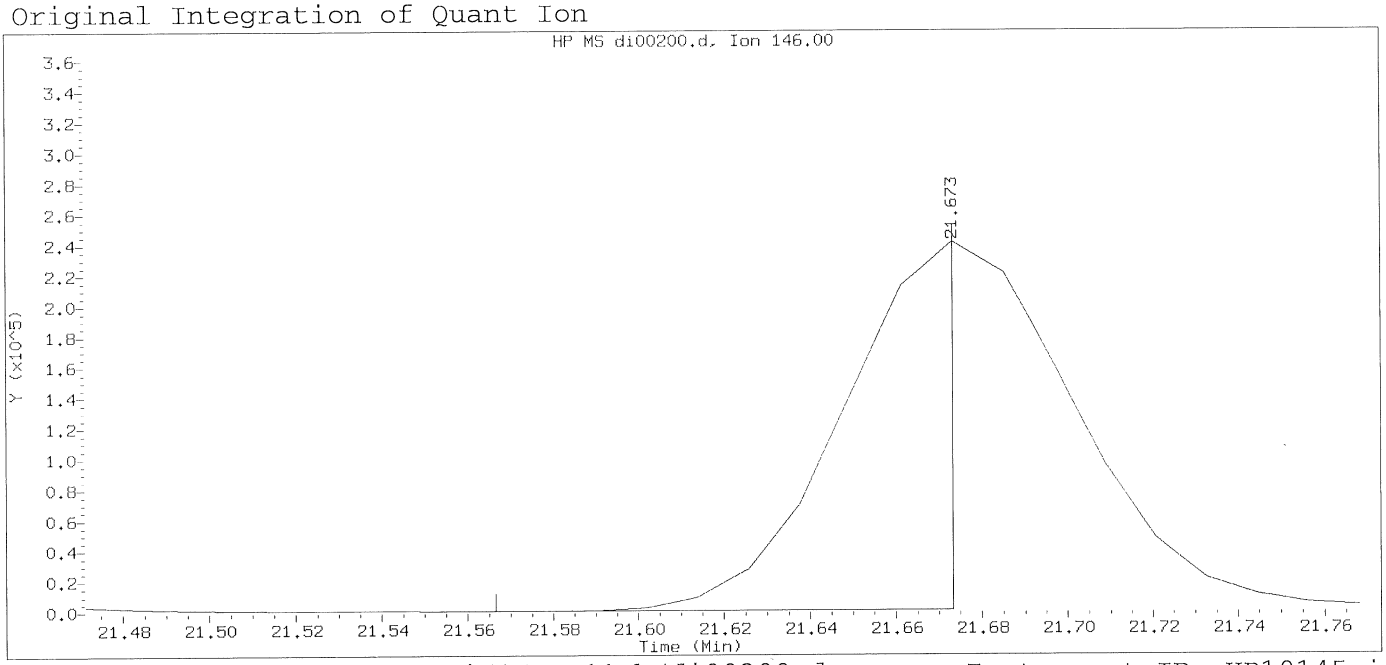
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

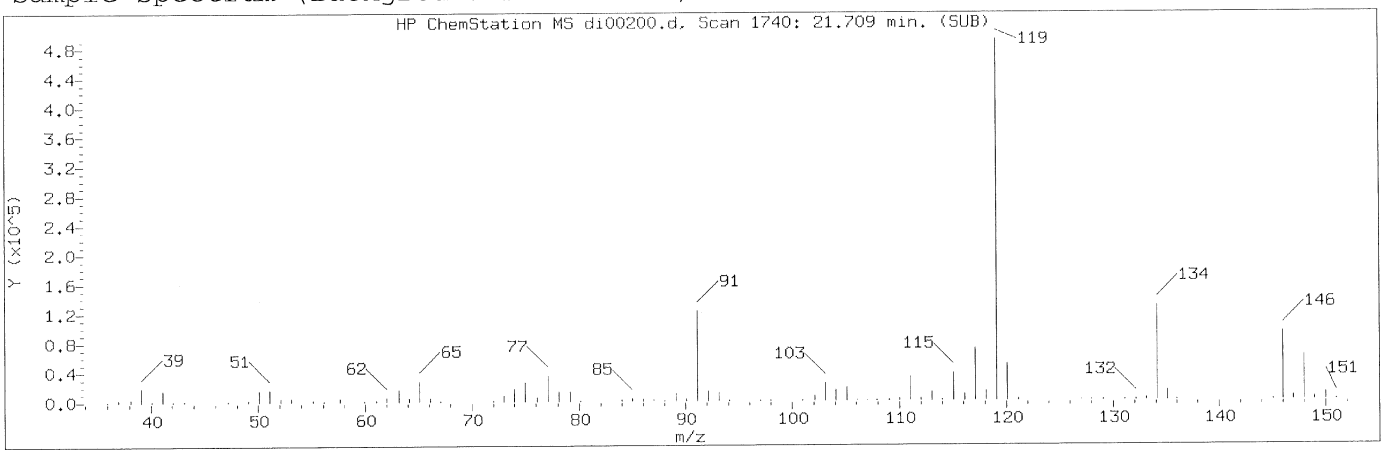
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

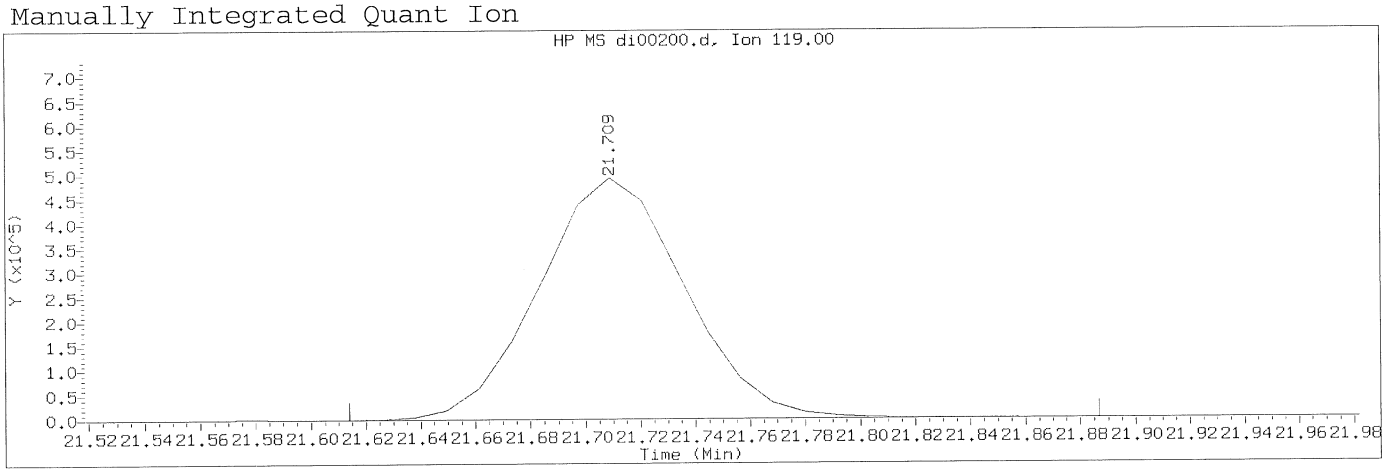
Compound Number	: 93		
Compound Name	: 1,4-Dichlorobenzene		
Scan Number	: 1737		
Retention Time (minutes)	: 21.673		
Quant Ion	: 146.00		
Area	: 412539		
Concentration (ppb(v))	: 2.7445		
Integration start scan	: 1727	Integration stop scan:	1736
Y at integration start	: 514	Y at integration end:	514

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 94
Compound Name : p-Isopropyltoluene
Scan Number : 1740
Retention Time (minutes): 21.709
Quant Ion : 119.00
Area (flag) : 1812289M
Concentration (ppb(v)) : 4.7208
Integration start scan : 1731 Integration stop scan: 1754
Y at integration start : 0 Y at integration end: 0

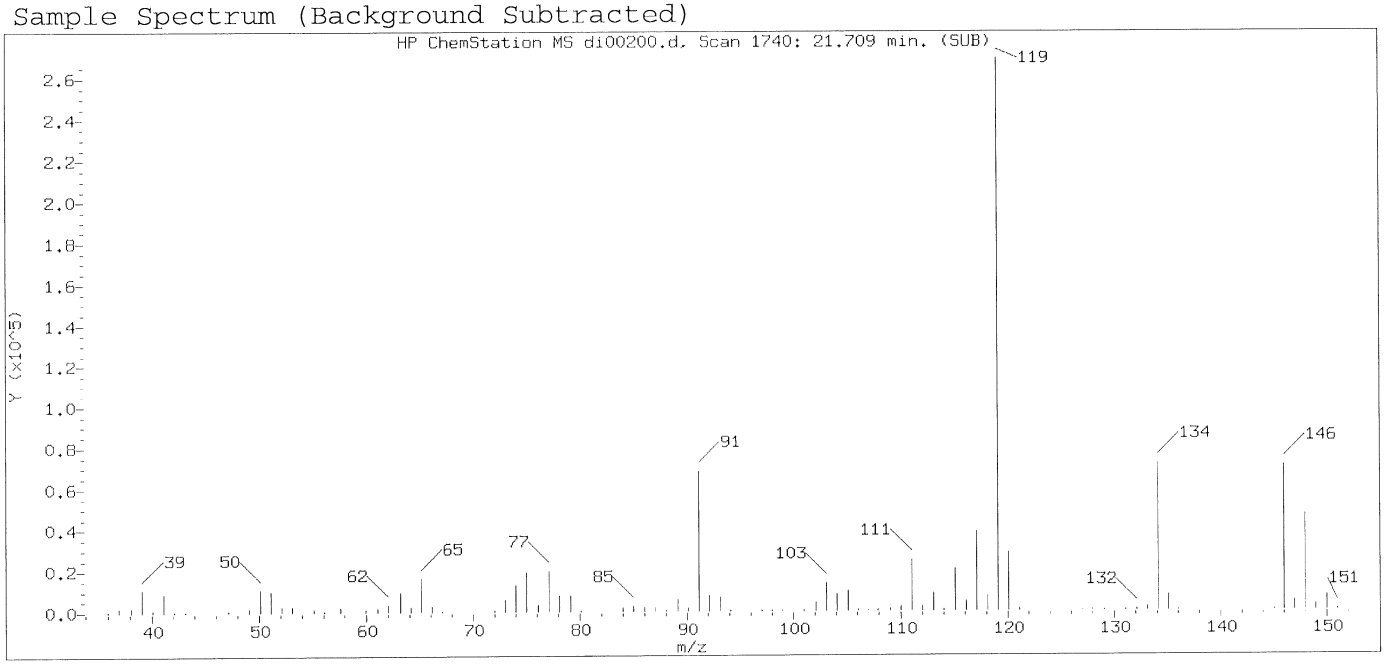
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

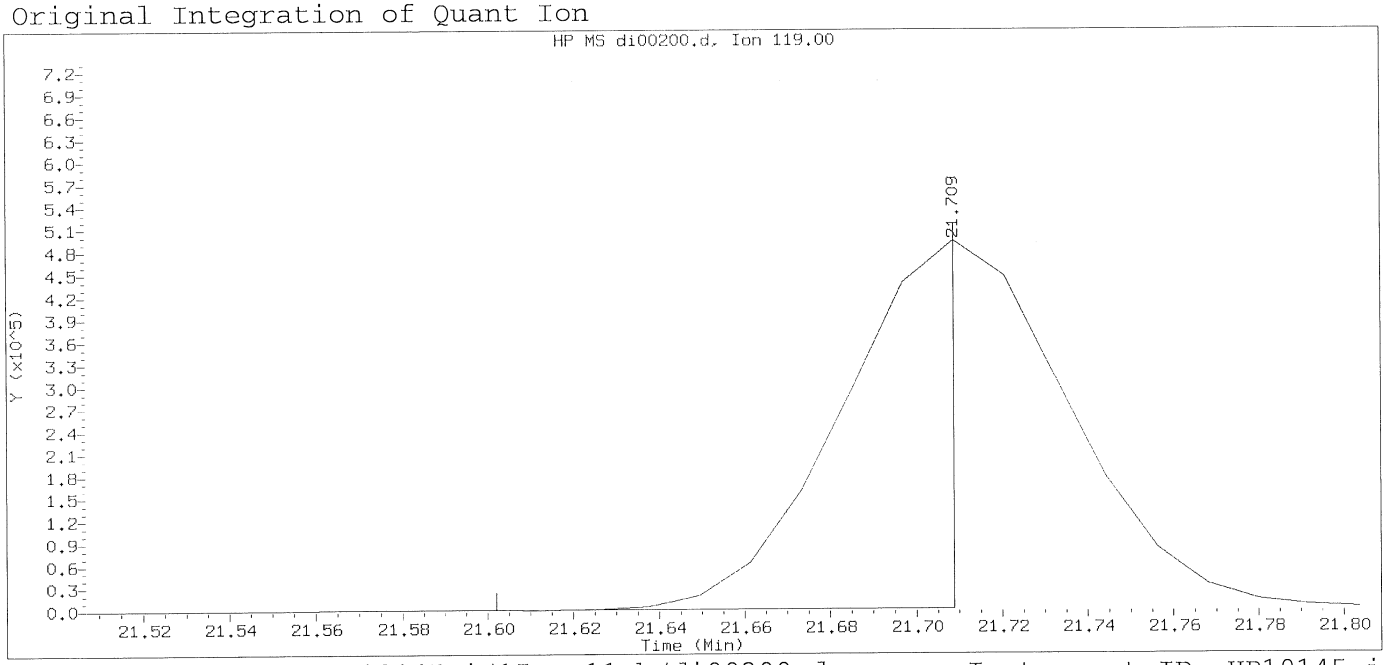
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



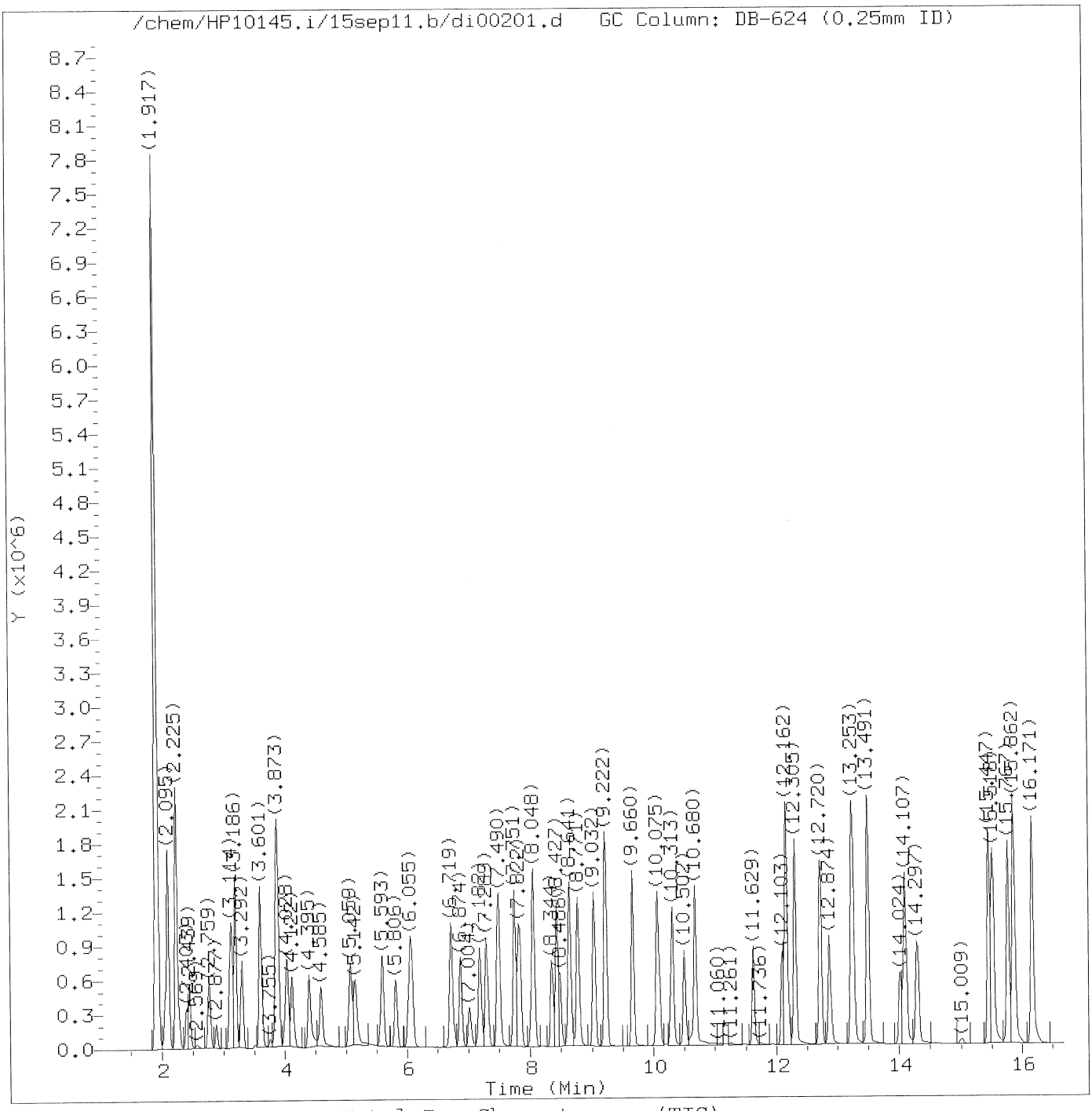
Data File: /chem/HP10145.i/15sep11.b/di00200.d Instrument ID: HP10145.i
Injection date and time: 11-SEP-2015 23:37 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 00:17 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 94
Compound Name	: p-Isopropyltoluene
Scan Number	: 1740
Retention Time (minutes)	: 21.709
Quant Ion	: 119.00
Area	: 867570
Concentration (ppb(v))	: 3.1638
Integration start scan	: 1730 Integration stop scan: 1739
Y at integration start	: 504 Y at integration end: 504

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

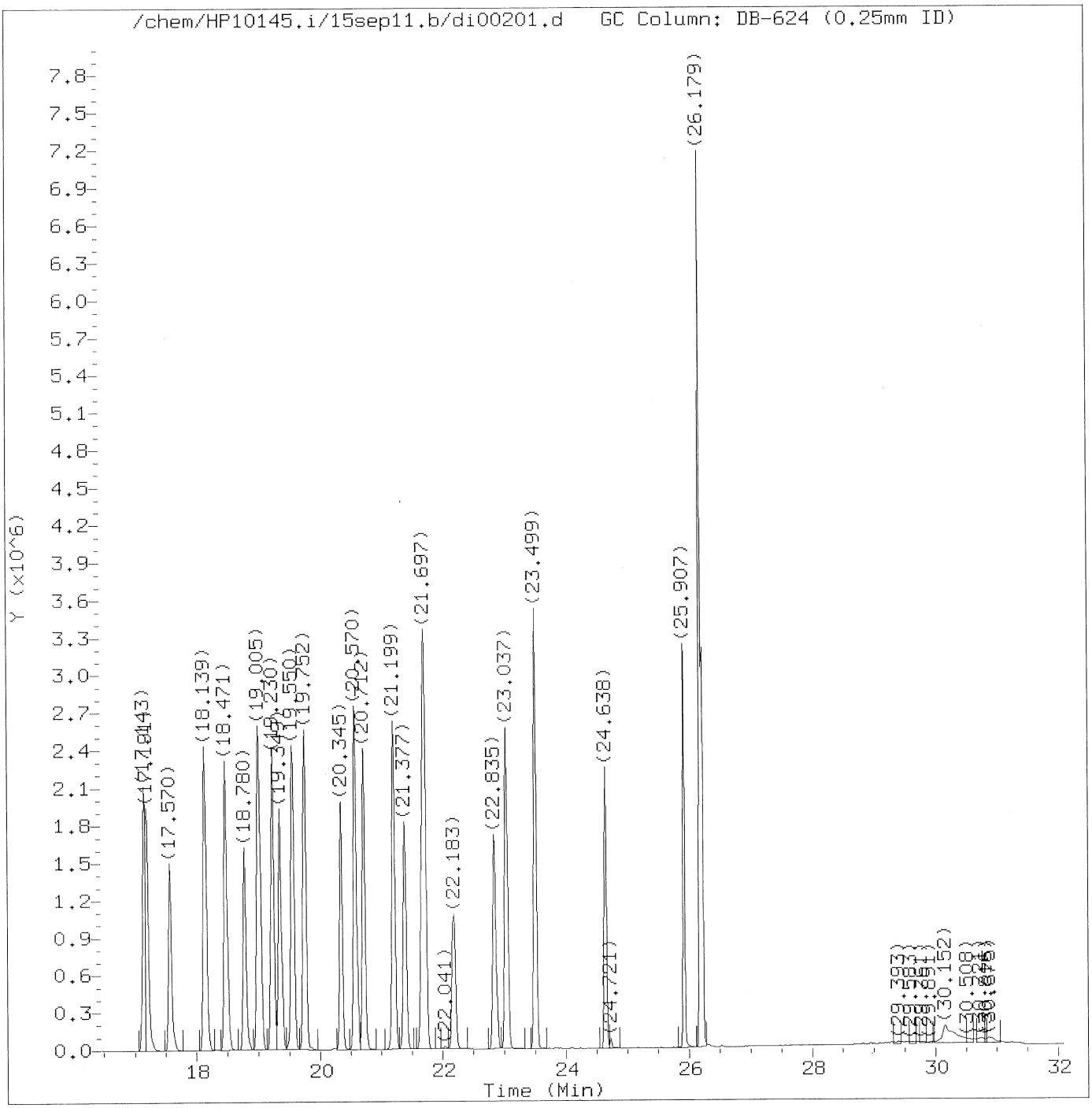
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

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on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00201.d
Injection date and time: 12-SEP-2015 00:23
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m
Calibration date and time: 14-SEP-2015 10:01
Sublist used: all
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	263070	11.684
2) Dichlorodifluoromethane	(1)	2.083	85	1916533	8.898
3) Chlorodifluoromethane	(1)	2.095	51	690511	9.730
4) Freon 114	(1)	2.225	85	1564809	9.136
5) Chloromethane	(1)	2.272	52	123143	9.382
6) Vinyl Chloride	(1)	2.403	62	505127	9.446
7) 1,3-Butadiene	(1)	2.450	54	318178	10.041
8) Bromomethane	(1)	2.759	94	578744	9.244
9) Chloroethane	(1)	2.877	64	280168	9.630
10) Bromoethene	(1)	3.103	106	574214	10.381
11) Dichlorofluoromethane	(1)	3.126	67	1290500	10.130
12) Trichlorofluoromethane	(1)	3.186	101	1901694	9.388
13) Pentane	(1)	3.292	43	628307	10.197
15) Freon123a	(1)	3.601	67	1134100	10.529
14) Ethanol	(1)	3.696	45	102071M	6.285
16) Acrolein	(1)	3.755	56	102424	7.916
17) 1,1-Dichloroethene	(1)	3.850	61	836193	9.748
18) Freon 113	(1)	3.885	103	788804	9.138
19) Acetone	(1)	4.004	43	614407	10.213
20) Methyl Iodide	(1)	4.039	142	1240780	10.253
21) Carbon Disulfide	(1)	4.122	76	1584608	9.064
24) 3-Chloropropene	(1)	4.395	76	267294	10.797
23) Acetonitrile	(1)	4.395	40	174087	17.086
22) Isopropanol	(1)	4.431	45	627717M	9.074
25) Methylene Chloride	(1)	4.585	84	492911	10.734
28) trans-1,2-Dichloroethene	(1)	5.059	61	489930	7.449
27) Acrylonitrile	(1)	5.059	53	227768M	8.984
26) tert-Butyl Alcohol	(1)	5.083	59	925511M	8.908
29) Methyl t-Butyl Ether	(1)	5.142	73	1029815	7.010
30) Hexane	(1)	5.593	57	693811	9.744
31) 1,1-Dichloroethane	(1)	5.806	63	980176	9.801
32) Vinyl Acetate	(1)	6.008	86	103486	8.725
33) Di-Isopropyl Ether	(1)	6.055	45	1286600	10.455
36) 1,2-Dichloroethene (total)	(1)		61	1223574	17.891
34) Ethyl Tert-Butyl Ether	(1)	6.719	59	1671251	10.254
35) cis-1,2-Dichloroethene	(1)	6.874	61	733644	10.442
37) 2-Butanone	(1)	7.016	72	295550	11.195
38) Ethyl Acetate	(1)	7.170	70	186426	11.593

M = Compound was manually integrated.

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on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00201.d
Injection date and time: 12-SEP-2015 00:23
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m
Calibration date and time: 14-SEP-2015 10:01
Sublist used: all
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.182	55	757561	11.076
40)*Bromochloromethane	(1)	7.289	130	623987	10.000
41) Tetrahydrofuran	(1)	7.478	42	399247	10.734
42) Chloroform	(1)	7.490	83	1390389	9.849
43) 1,1,1-Trichloroethane	(1)	7.751	97	1621884	9.752
44) Cyclohexane	(1)	7.822	56	762210	10.275
45) Carbon Tetrachloride	(1)	8.048	117	1727425	9.896
46) Benzene	(2)	8.427	78	1923212	10.201
47) 1,2-Dichloroethane	(2)	8.486	62	886737	10.128
48) Isooctane	(2)	8.641	57	2409256	10.314
49) Tert-Amyl Methyl Ether	(2)	8.771	73	1970375	10.929
50) Heptane	(2)	9.032	43	702585	10.350
51)*1,4-Difluorobenzene	(2)	9.222	114	2489018	10.000
52) Trichloroethene	(2)	9.660	130	828125	10.229
53) Ethyl Acrylate	(2)	10.064	55	1009818	11.567
54) 1,2-Dichloropropane	(2)	10.087	63	587165	10.299
55) Dibromomethane	(2)	10.313	174	856835	10.479
57) Methyl Methacrylate	(2)	10.502	69	631678	10.893
56) 1,4-Dioxane	(2)	10.609	88	444913M	11.142
58) Bromodichloromethane	(2)	10.680	83	1540532	10.156
59) cis-1,3-Dichloropropene	(2)	11.629	75	925507	10.128
60) 4-Methyl-2-Pentanone	(2)	12.091	43	955569	9.949
61) Toluene	(3)	12.305	91	2420068	10.427
62) Octane	(3)	12.720	43	951471	10.438
63) trans-1,3-Dichloropropene	(3)	12.874	75	1039426	10.804
64) 1,3-Dichloropropene (total)	(3)		75	1964933	20.931
65) Ethyl Methacrylate	(3)	13.242	69	1096685	10.858
66) 1,1,2-Trichloroethane	(3)	13.253	97	833619	10.413
67) Tetrachloroethene	(3)	13.503	166	1318079	10.285
68) 2-Hexanone	(3)	14.024	43	973656	11.032
69) Dibromochloromethane	(3)	14.107	127	1139598	9.859
70) 1,2-Dibromoethane	(3)	14.297	107	1205354	10.031
71)*Chlorobenzene-d5	(3)	15.447	117	2183720	10.000
72) Chlorobenzene	(3)	15.518	112	1875506	10.311
73) 1,1,1,2-Tetrachloroethane	(3)	15.767	131	1069725	10.270
74) Ethylbenzene	(3)	15.862	91	3250507	10.721
75) m/p-Xylene	(3)	16.171	91	2602824	9.900
76) o-Xylene	(3)	17.143	91	2723143	10.925

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

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on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00201.d
Injection date and time: 12-SEP-2015 00:23
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m
Calibration date and time: 14-SEP-2015 10:01
Sublist used: all
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.191	104	1934084	10.627
77) Xylene (total)	(3)		91	5325967	20.825
79) Bromoform	(3)	17.570	173	1551778	10.160
80) Cumene	(3)	18.139	105	3684924	10.630
81) Bromobenzene	(3)	18.780	156	1096603	10.436
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	1813913	10.259
83) 1,2,3-Trichloropropane	(3)	19.029	110	562119	9.796
84) n-Propylbenzene	(3)	19.230	120	953604	10.199
85) 2-Chlorotoluene	(3)	19.349	126	795301	10.370
86) 4-Ethyltoluene	(3)	19.550	105	3567362	10.195
87) 1,3,5-Trimethylbenzene	(3)	19.752	105	3234166	10.317
88) Alpha Methyl Styrene	(3)	20.345	118	1346495	10.537
89) tert-Butylbenzene	(3)	20.570	119	3102618	10.212
90) 1,2,4-Trimethylbenzene	(3)	20.712	105	3135282	10.133
91) sec-Butylbenzene	(3)	21.199	105	4346642	10.119
92) 1,3-Dichlorobenzene	(3)	21.377	146	1891338	10.382
93) 1,4-Dichlorobenzene	(3)	21.673	146	1798405	9.946
94) p-Isopropyltoluene	(3)	21.709	119	3682858	10.276
95) Benzyl Chloride	(3)	22.183	91	2048561	9.116
96) 1,2-Dichlorobenzene	(3)	22.835	146	1719015	10.057
97) n-Butylbenzene	(3)	23.037	91	3203600	10.161
98) Hexachloroethane	(3)	23.499	117	1282975	11.059
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	975790	9.782
100) 1,2,4-Trichlorobenzene	(3)	25.918	180	1337863	10.772
101) Hexachlorobutadiene	(3)	26.179	225	1782751	8.918
102) Naphthalene	(3)	26.215	128	2722928	12.896

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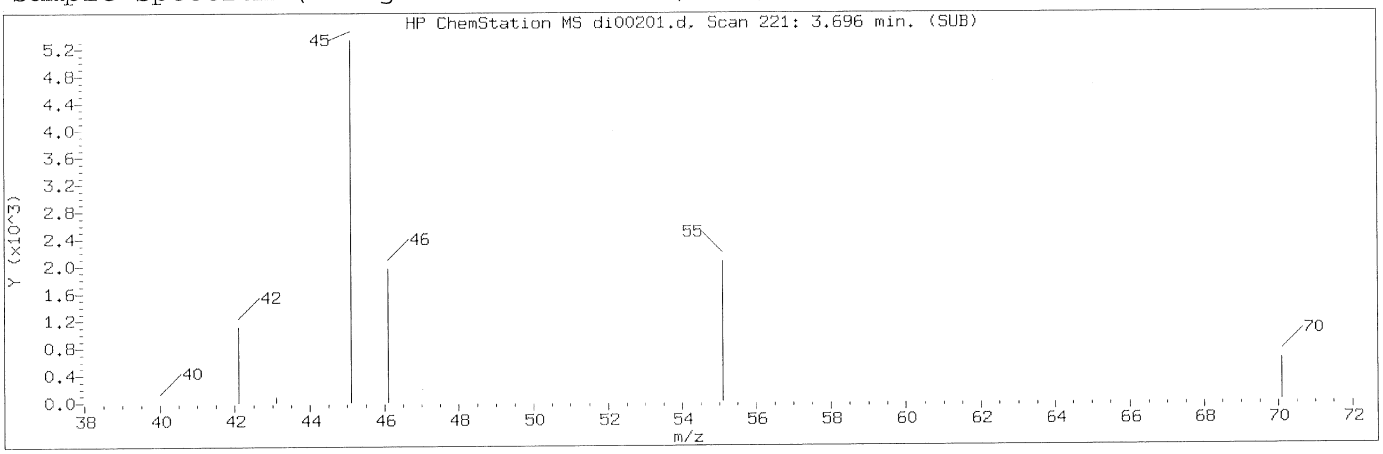
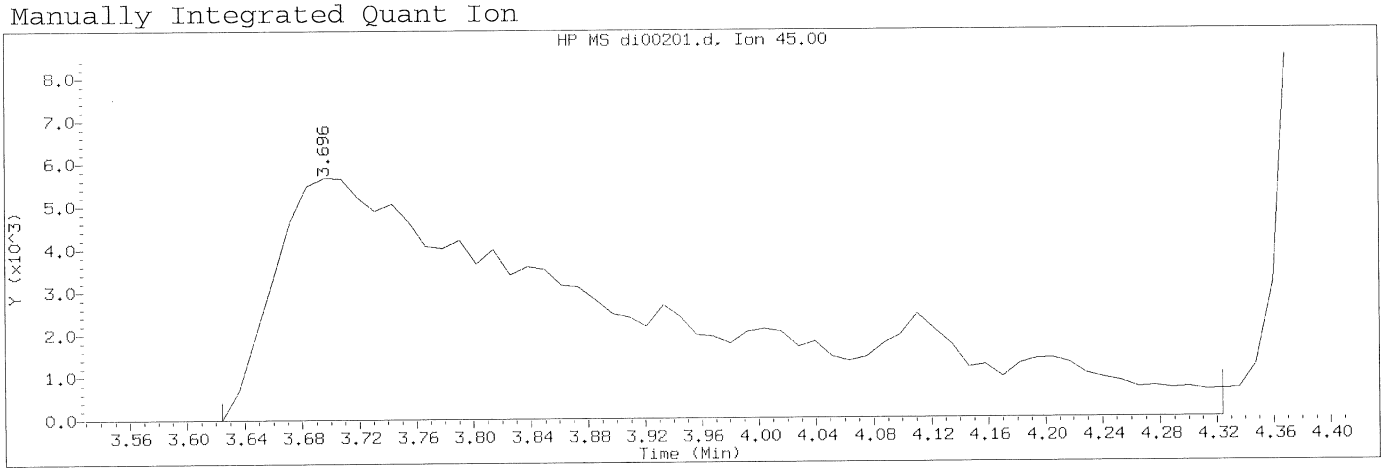
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 14		
Compound Name	: Ethanol		
Scan Number	: 221		
Retention Time (minutes)	: 3.696		
Quant Ion	: 45.00		
Area (flag)	: 102071M		
Concentration (ppb(v))	: 6.2845		
Integration start scan	: 214	Integration stop scan:	273
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

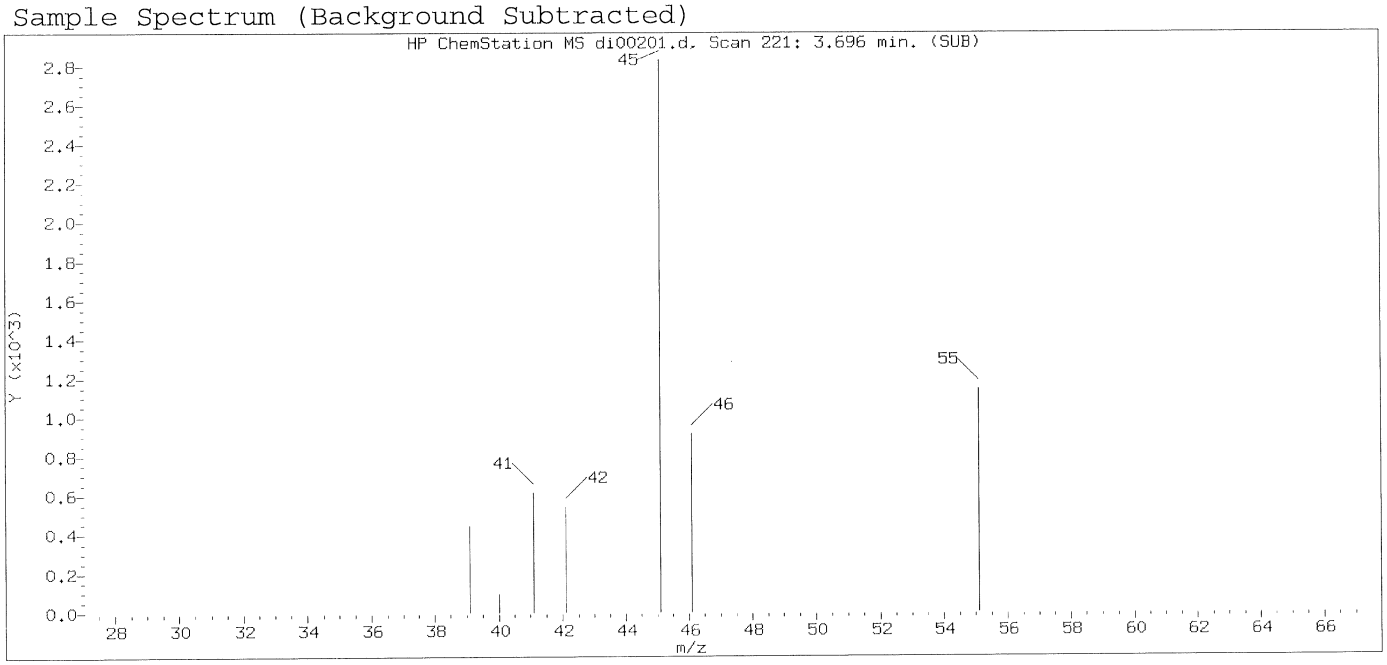
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

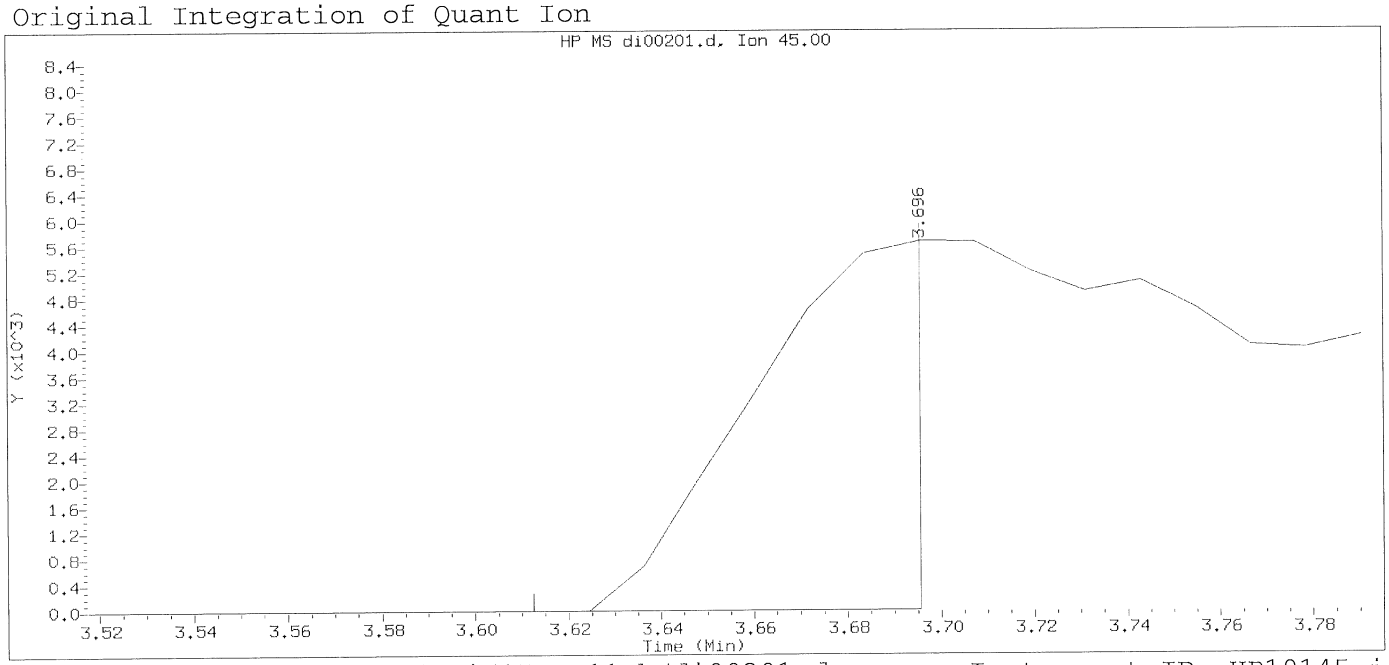
SEP 15 2015

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 01:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 14		
Compound Name	: Ethanol		
Scan Number	: 221		
Retention Time (minutes)	: 3.696		
Quant Ion	: 45.00		
Area	: 13477		
Concentration (ppb(v))	: 0.9709		
Integration start scan	: 213	Integration stop scan:	220
Y at integration start	: 0	Y at integration end:	0

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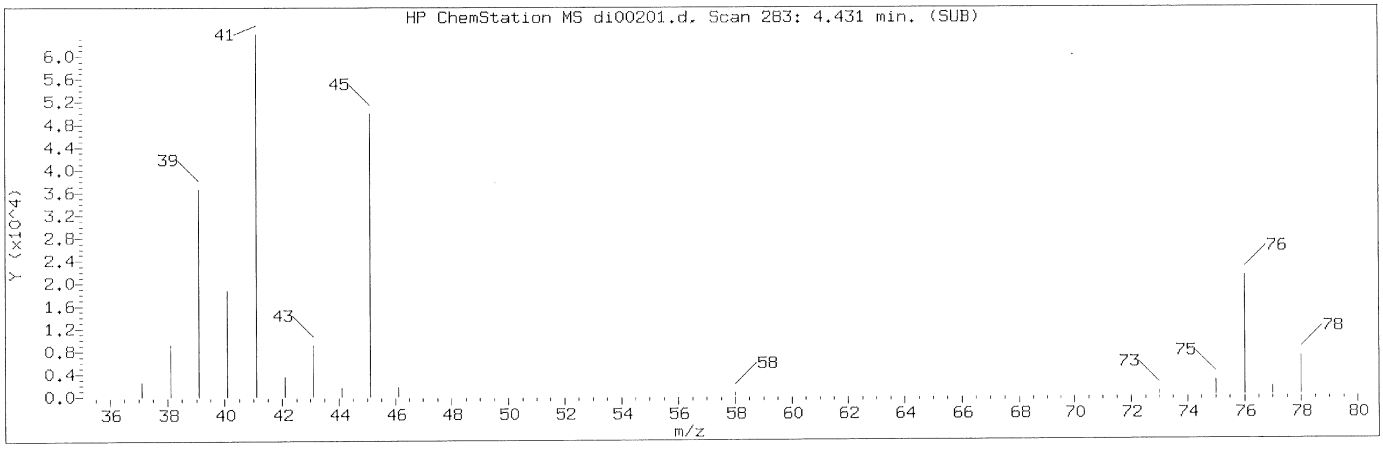
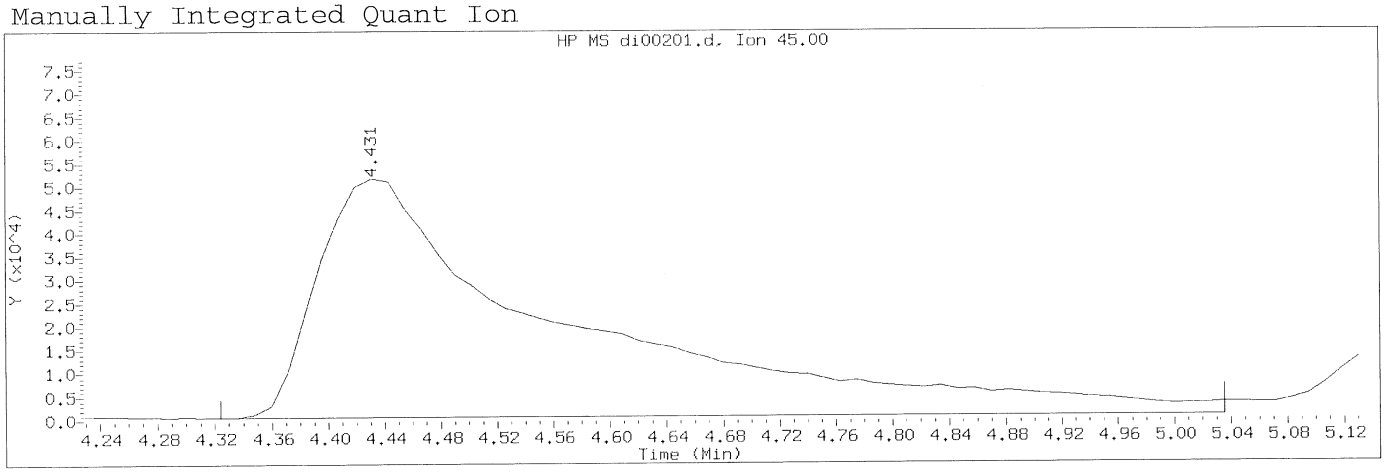
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 283		
Retention Time (minutes)	: 4.431		
Quant Ion	: 45.00		
Area (flag)	: 627717M		
Concentration (ppb(v))	: 9.0738		
Integration start scan	: 273	Integration stop scan:	333
Y at integration start	: 604	Y at integration end:	604

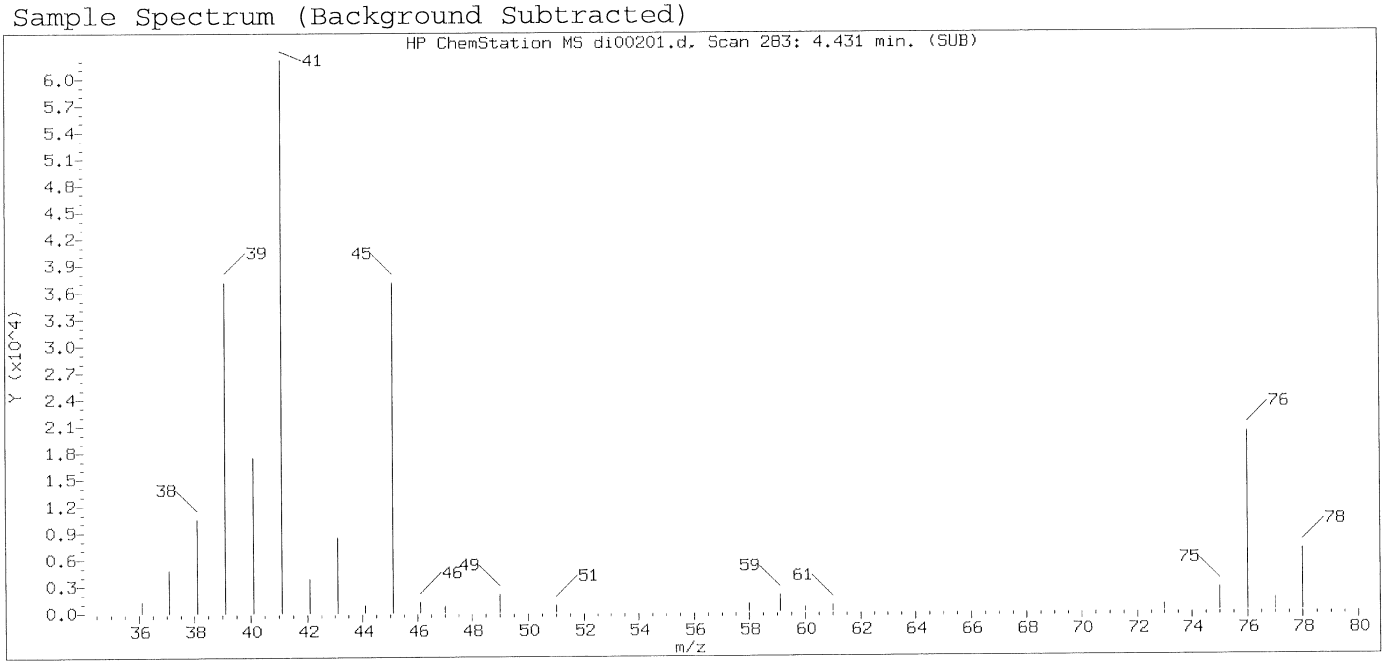
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

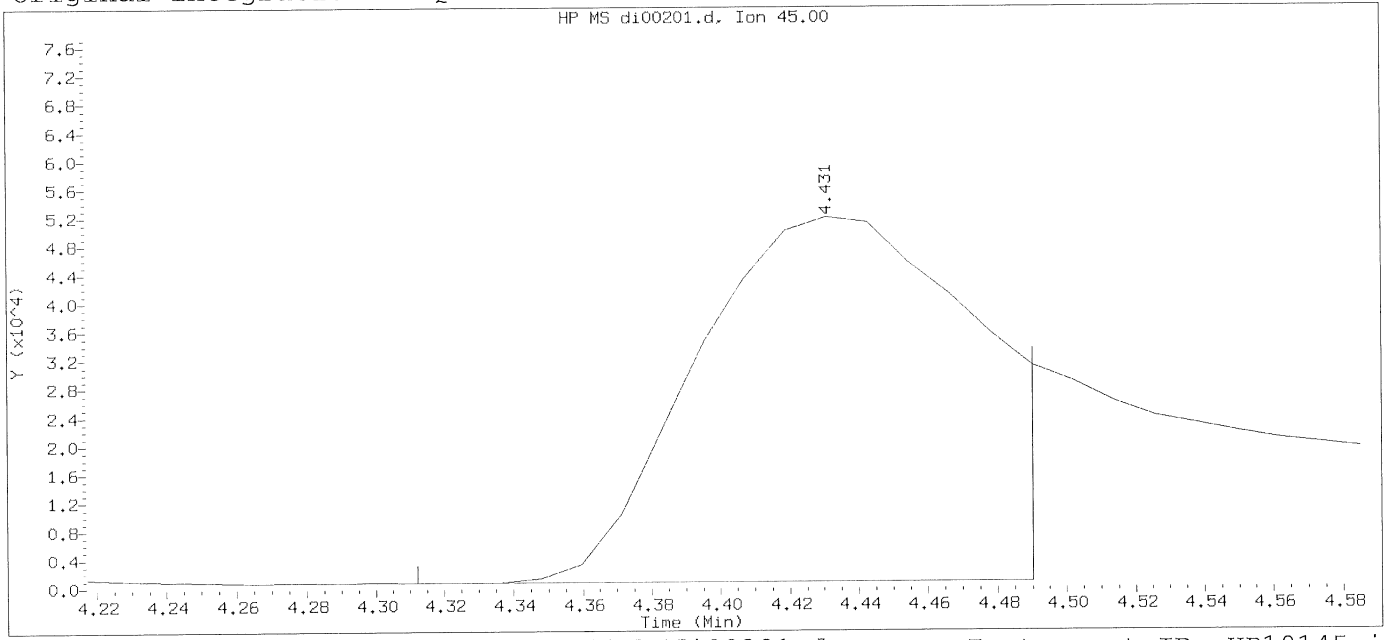
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

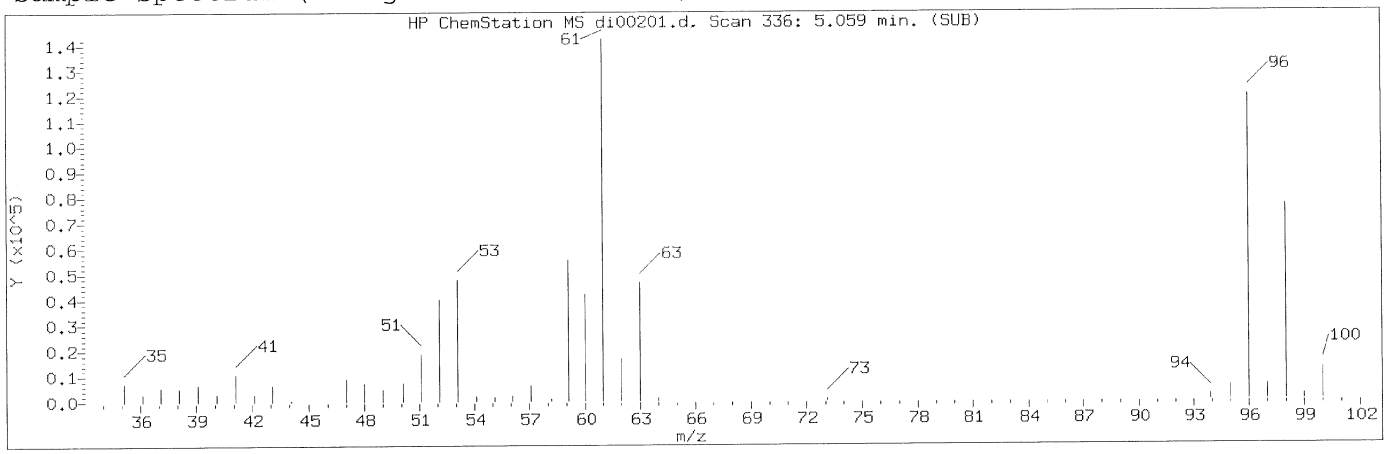
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 01:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

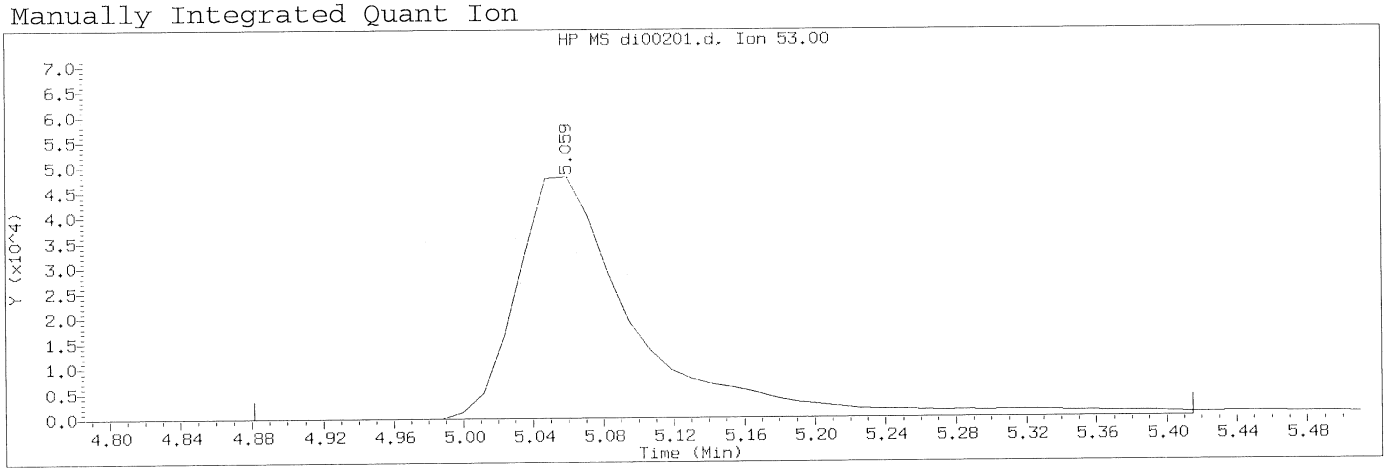
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 283		
Retention Time (minutes)	: 4.431		
Quant Ion	: 45.00		
Area	: 282817		
Concentration (ppb(v))	: 4.8442		
Integration start scan	: 272	Integration stop scan:	287
Y at integration start	: 627	Y at integration end:	627

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 336		
Retention Time (minutes)	: 5.059		
Quant Ion	: 53.00		
Area (flag)	: 227768M		
Concentration (ppb(v))	: 8.9841		
Integration start scan	: 320	Integration stop scan:	365
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

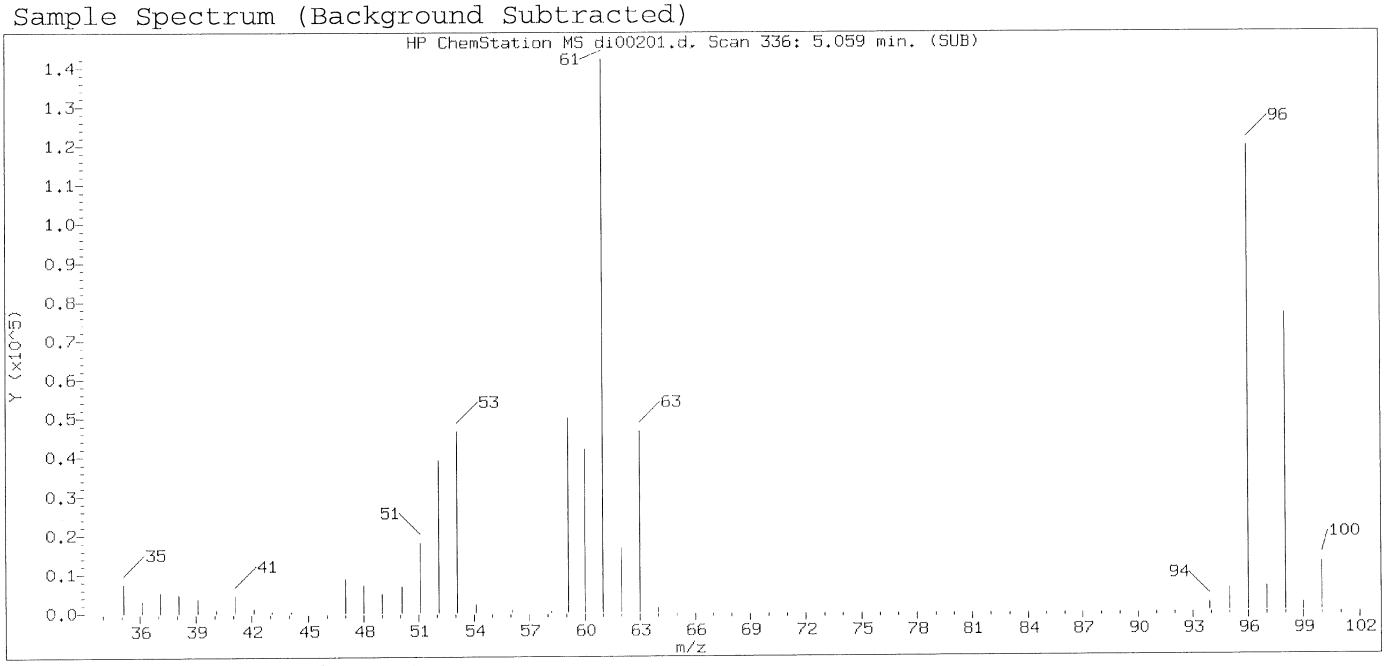
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist

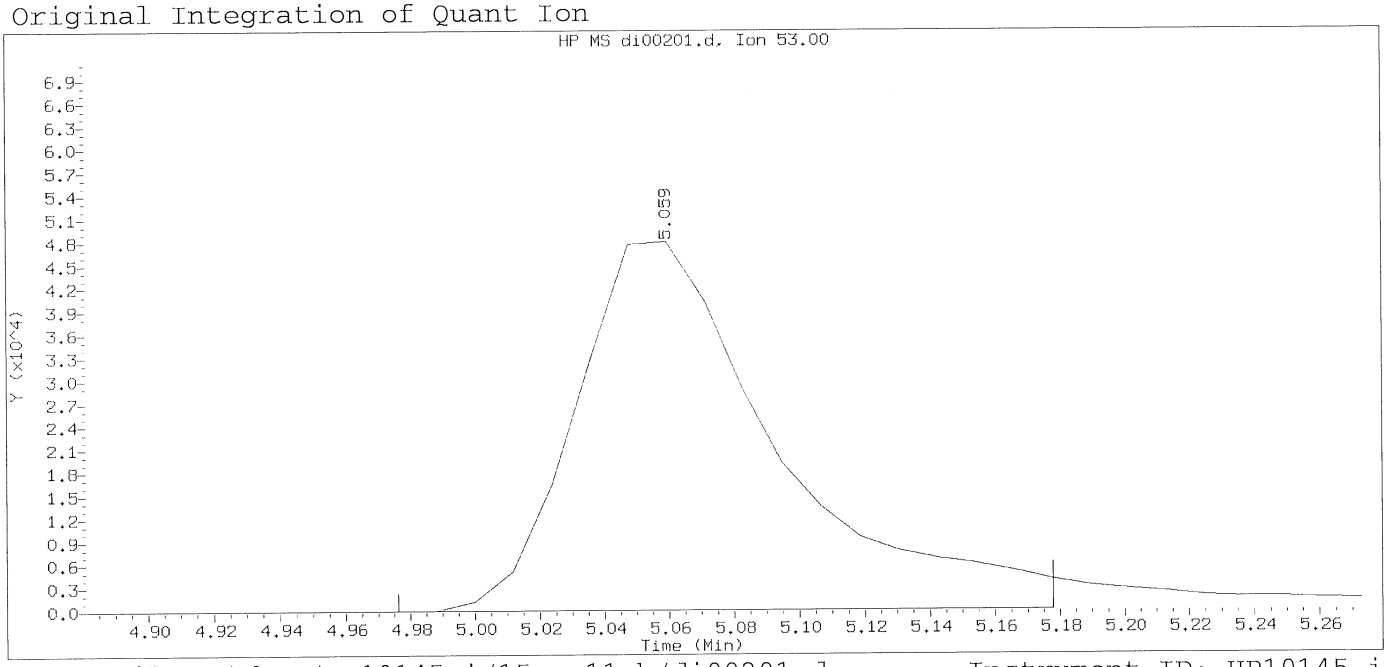
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 01:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 336		
Retention Time (minutes)	: 5.059		
Quant Ion	: 53.00		
Area	: 205674		
Concentration (ppb(v))	: 11.0781		
Integration start scan	: 328	Integration stop scan:	345
Y at integration start	: 0	Y at integration end:	0

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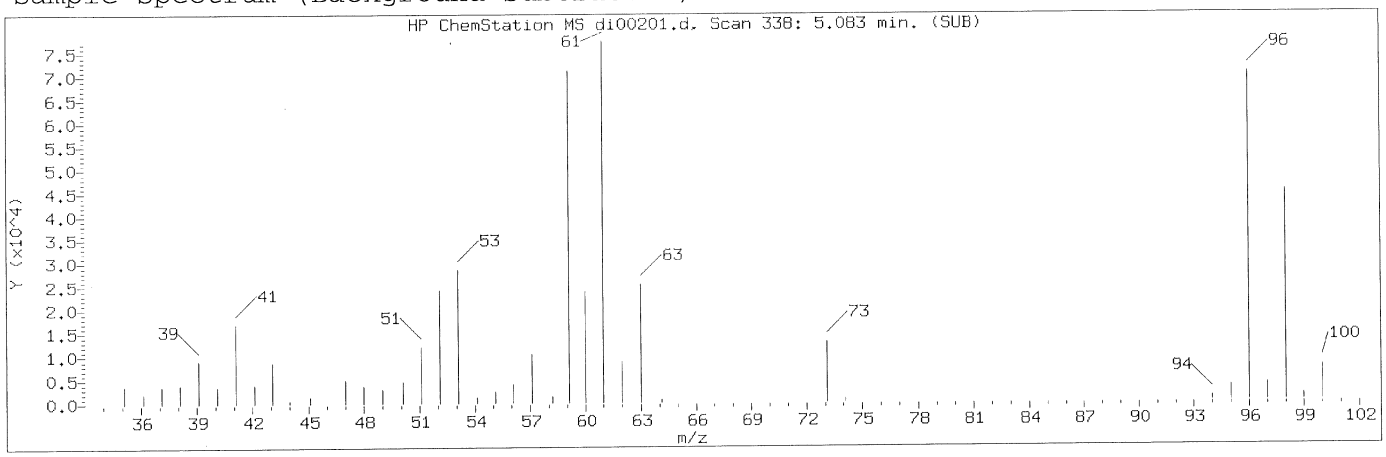
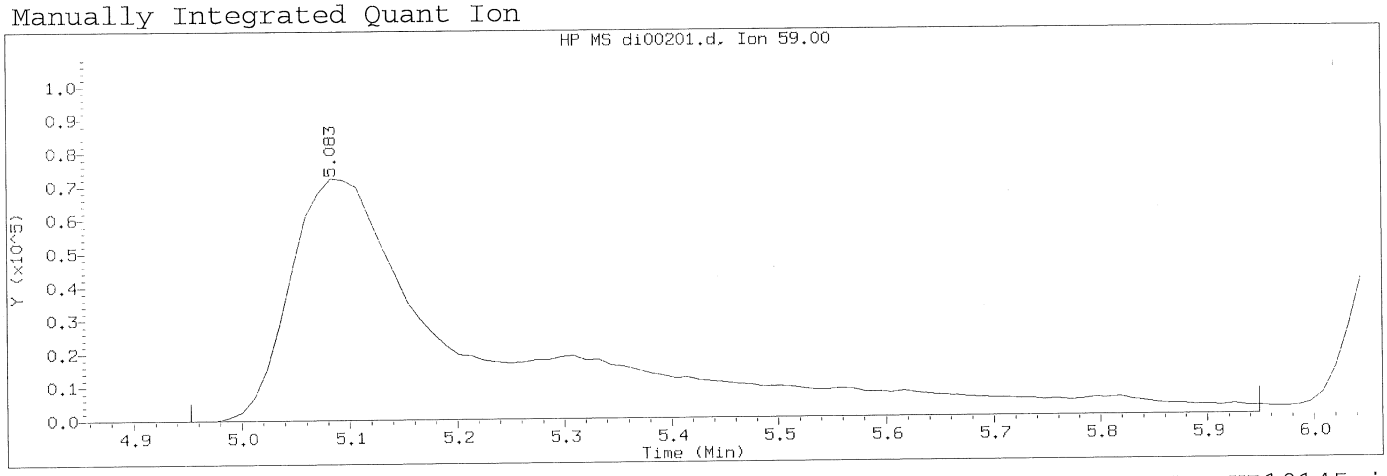
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

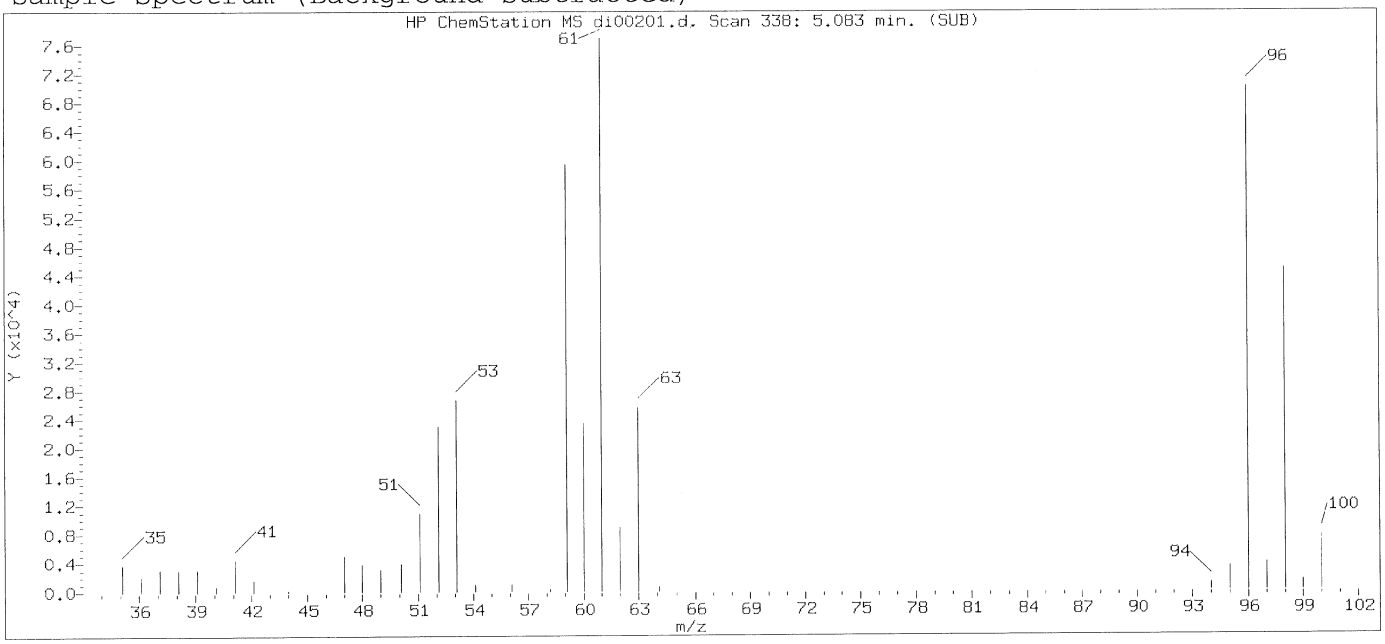
Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 338		
Retention Time (minutes)	: 5.083		
Quant Ion	: 59.00		
Area (flag)	: 925511M		
Concentration (ppb(v))	: 8.9081		
Integration start scan	: 326	Integration stop scan:	410
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

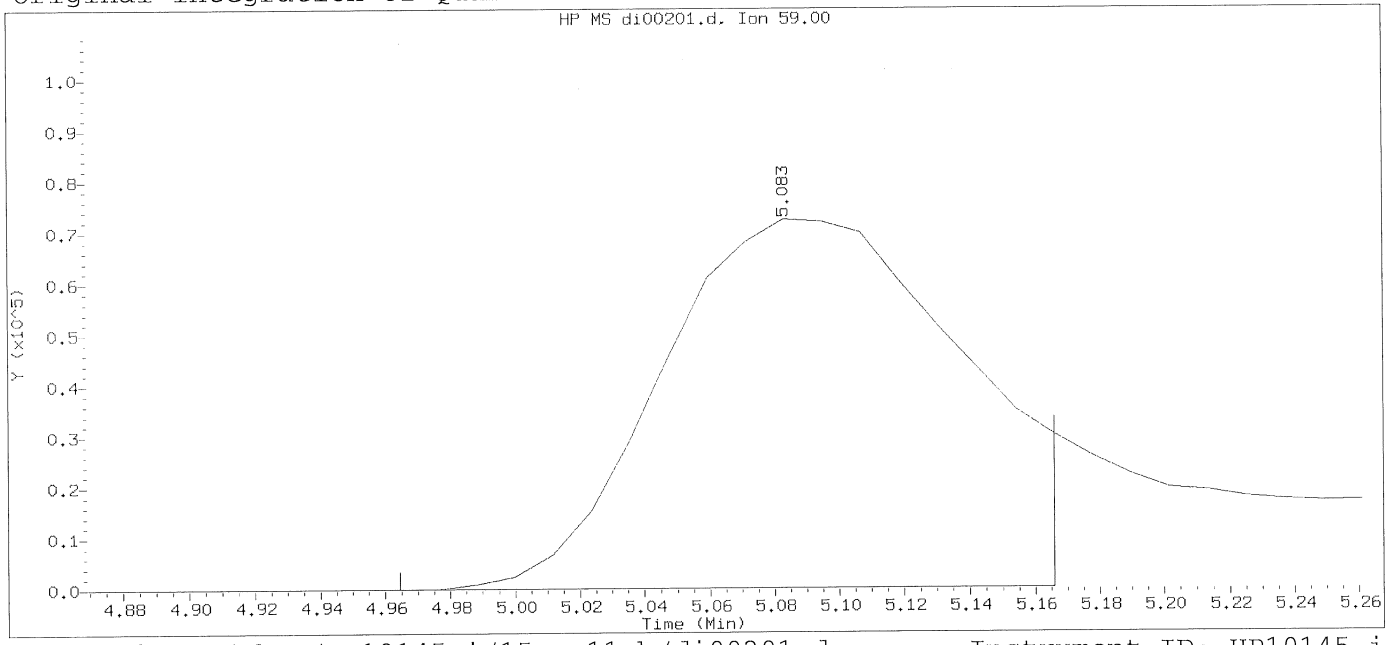
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:37. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 01:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 338		
Retention Time (minutes)	: 5.083		
Quant Ion	: 59.00		
Area	: 460867		
Concentration (ppb(v))	: 6.0444		
Integration start scan	: 327	Integration stop scan:	344
Y at integration start	: 0	Y at integration end:	0

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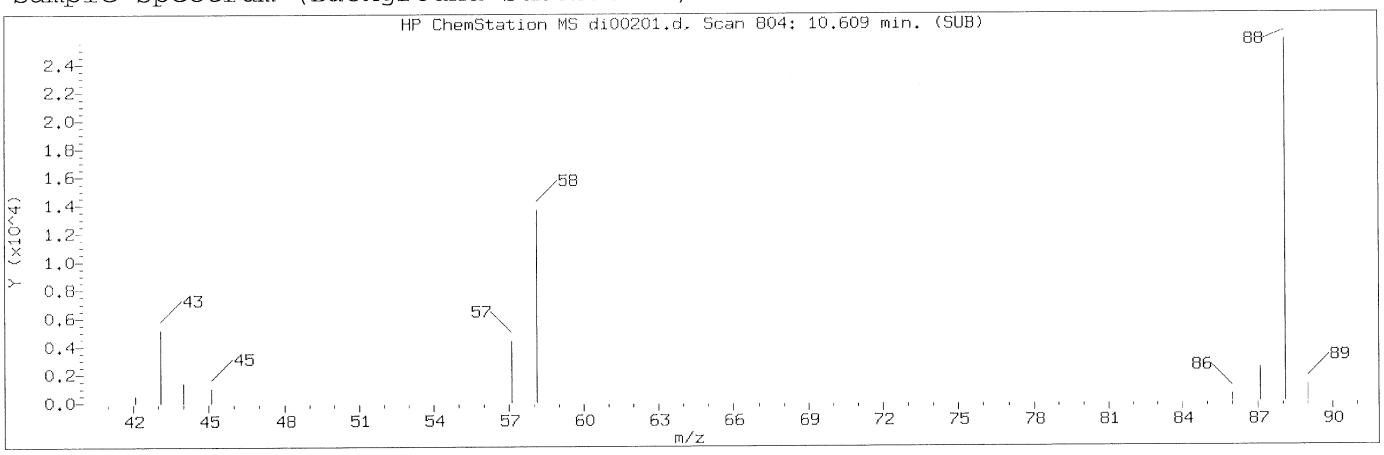
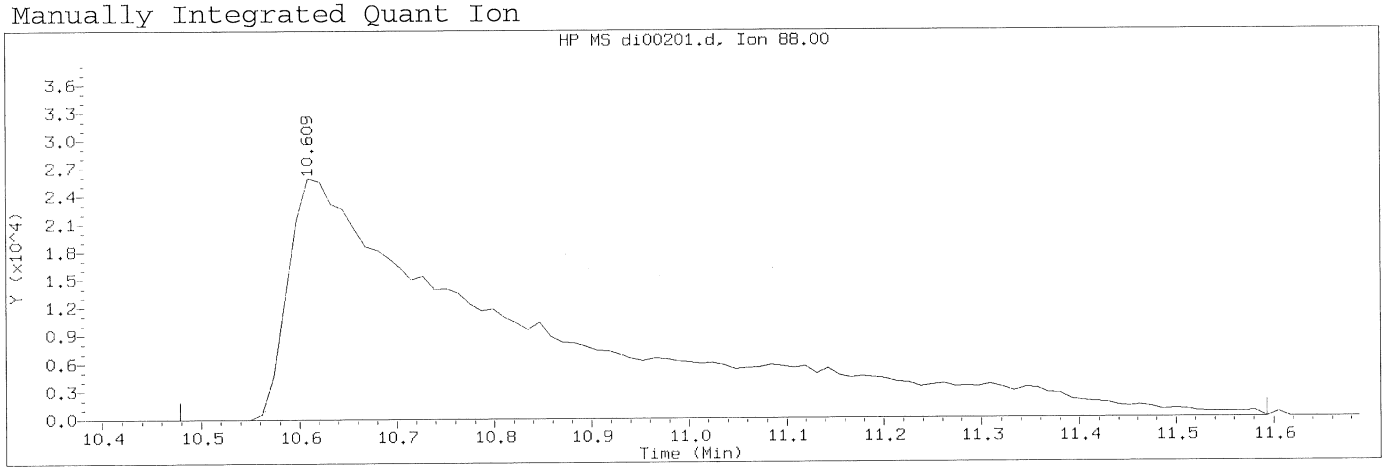
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:01
Date, time and analyst ID of latest file update: 14-Sep-2015 10:01 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 804		
Retention Time (minutes)	: 10.609		
Quant Ion	: 88.00		
Area (flag)	: 444913M		
Concentration (ppb(v))	: 11.1415		
Integration start scan	: 792	Integration stop scan:	886
Y at integration start	: 0	Y at integration end:	0

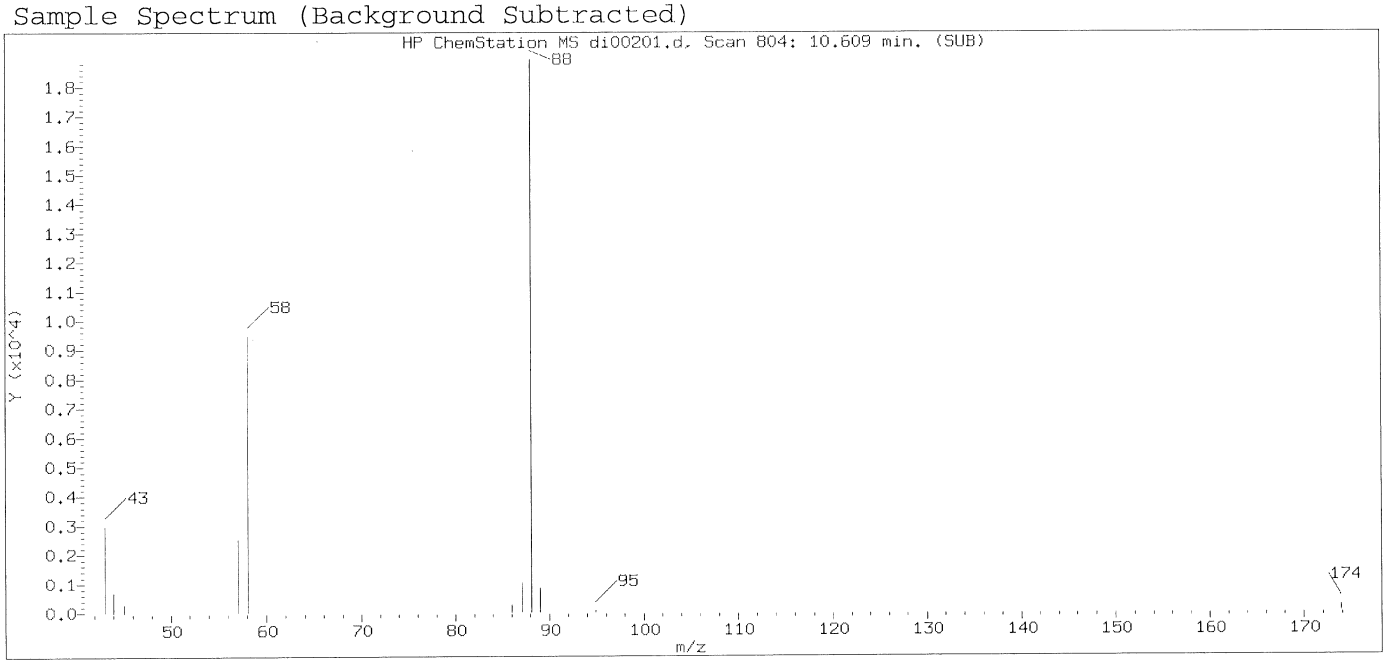
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:37.
Target 3.5 esignature user ID: jbs01304

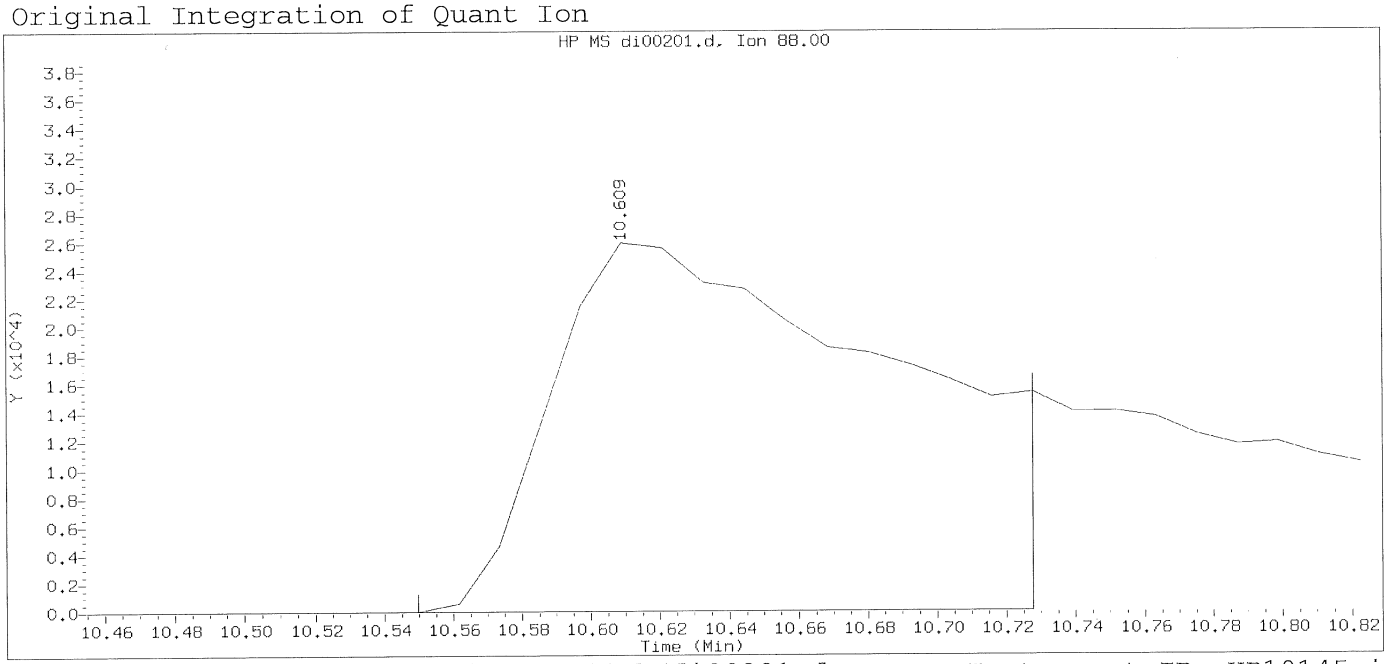
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00201.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 00:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 01:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 804		
Retention Time (minutes)	: 10.609		
Quant Ion	: 88.00		
Area	: 178201		
Concentration (ppb(v))	: 7.3632		
Integration start scan	: 798	Integration stop scan:	813
Y at integration start	: 0	Y at integration end:	0

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Target 3.5 esignature user ID: jbs01304

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

VBLKD62

Data file: /chem/HP10145.i/15sep11.b/di00203.d Injection date and time: **12-SEP-2015 01:54**
Data file Sample Info. Line: VBLKD62;;D1525430AA;VBLKD62;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 10:12
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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	612485 (-2)	10.00		374393 - 873581
51) 1,4-Difluorobenzene	9.222(0.000)	687	114	2431880 (-2)	10.00		1493411 - 3484625
71) Chlorobenzene-d5	15.447(0.000)	1212	117	2084760 (-5)	10.00		1310232 - 3057208

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					0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.5	2
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					0.2	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					0.5	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	1
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	1
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					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)			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/HP10145.i/15sep11.b/di00203.d Injection date and time: **12-SEP-2015 01:54**
Data file Sample Info. Line: VBLKD62;;D1525430AA;VBLKD62;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 10:12
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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					0.2	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					0.5	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					0.2	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	1
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					0.2	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

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep11.b/di00203.d Injection date and time: **12-SEP-2015 01:54**
Data file Sample Info. Line: VBLKD62;;D1525430AA;VBLKD62;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 10:12
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.d**

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

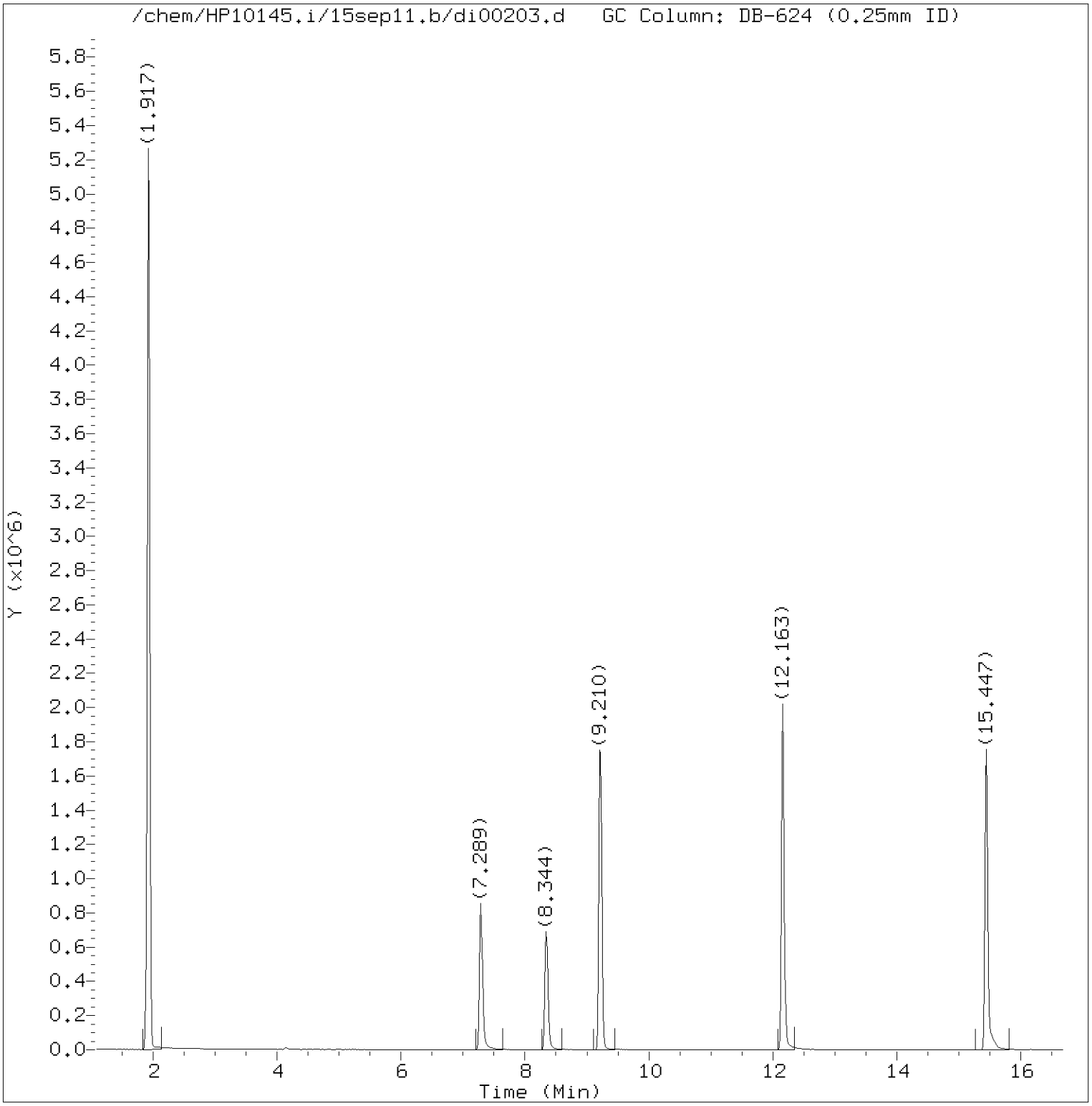
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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					0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:38. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:44. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

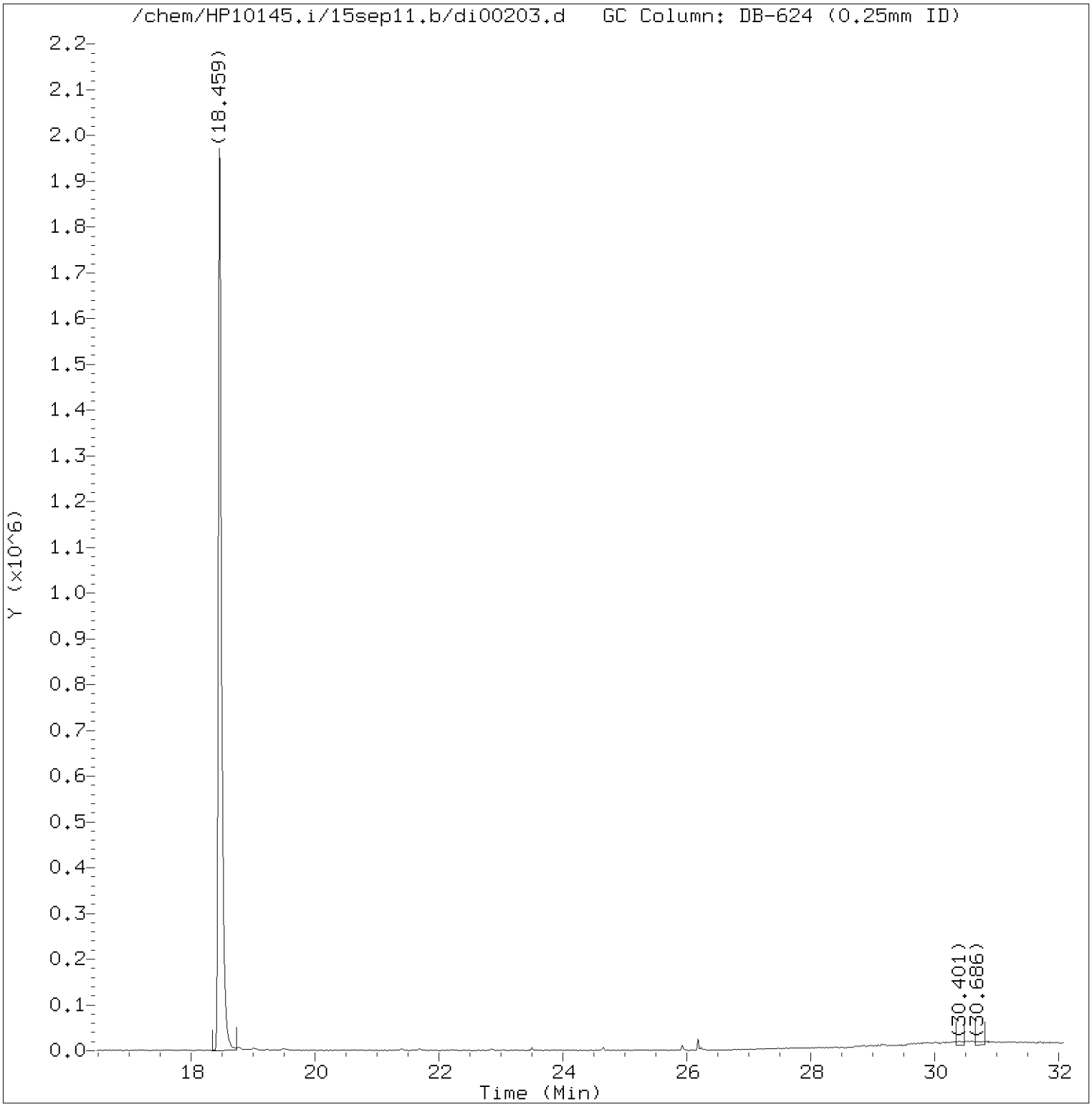
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00203.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 01:54 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:12
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Sample Name: VBLKD62 Lab Sample ID: VBLKD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:38.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00203.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 01:54 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:12
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Sample Name: VBLKD62 Lab Sample ID: VBLKD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:38.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00203.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 01:54 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:12
Date, time and analyst ID of latest file update: 14-Sep-2015 10:16 jbs01304

Sample Name: VBLKD62 Lab Sample ID: VBLKD62

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.289	130	612485	10.000
51)*1,4-Difluorobenzene	(2)	9.222	114	2431880	10.000
71)*Chlorobenzene-d5	(3)	15.447	117	2084760	10.000

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:38.
Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep11.b/di00204.d Injection date and time: **12-SEP-2015 02:39**
Data file Sample Info. Line: LCSD62;;D1525430AA;LCSD62;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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	666538 (7)	10.00		374393 - 873581
51) 1,4-Difluorobenzene	9.222(0.000)	687	114	2710861 (9)	10.00		1493411 - 3484625
71) Chlorobenzene-d5	15.447(0.000)	1212	117	2442164 (12)	10.00		1310232 - 3057208

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	252618	8.823	8.82			0.5	1
2) Dichlorodifluoromethane	(1)	2.095(-0.001)	85	1946345	9.082	9.08			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.237(-0.001)	85	1531987	8.725	8.72			0.2	1
5) Chloromethane	(1)	2.284(-0.001)	52	102095	7.474	7.47			0.5	2
6) Vinyl Chloride	(1)	2.403(-0.000)	62	486234	9.017	9.02			0.2	1
7) 1,3-Butadiene	(1)	2.450(-0.000)	54	298873	9.040	9.04			0.4	2
8) Bromomethane	(1)	2.771(-0.001)	94	556006	8.664	8.66			0.2	1
9) Chloroethane	(1)	2.889(-0.001)	64	260114	8.731	8.73			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	1858637	8.927	8.93			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.708(-0.001)	45	127698M	7.534	7.53			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.767(-0.001)	56	129069	9.390	9.39			0.5	2
17) 1,1-Dichloroethene	(1)	3.850(-0.000)	61	836038	9.772	9.77			0.2	1
18) Freon 113	(1)	3.885(-0.000)	103	811841	9.187	9.19			0.5	2
19) Acetone	(1)	4.016(-0.001)	43	591090	9.727	9.73			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.123(-0.000)	76	1555331	8.825	8.82			0.5	1
22) Isopropanol	(1)	4.466(-0.004)	45	583845M	8.002	8.00			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	478737	10.426	10.43			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	693242	10.587	10.59			0.2	1
29) Methyl t-Butyl Ether	(1)	5.154(-0.001)	73	1684529	10.843	10.84			0.2	1
30) Hexane	(1)	5.593(-0.000)	57	679590	9.472	9.47			0.2	1
31) 1,1-Dichloroethane	(1)	5.806(-0.000)	63	943721	9.394	9.39			0.2	1
32) Vinyl Acetate	(1)	6.020(-0.001)	86	139375	10.875	10.87			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	679579	9.487	9.49			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1372821	20.074	20.07			0.2	1
37) 2-Butanone	(1)	7.016(0.000)	72	292107	10.658	10.66			0.5	2
38) Ethyl Acetate	(1)	7.182(-0.001)	70	147653	8.835	8.84			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.490(-0.001)	42	389779	10.013	10.01			0.5	1
42) Chloroform	(1)	7.478(0.001)	83	1347260	9.463	9.46			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.751(0.000)	97	1587756	9.449	9.45			0.2	1
44) Cyclohexane	(1)	7.822(0.000)	56	722412	9.629	9.63			0.2	1

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep11.b/di00204.d Injection date and time: **12-SEP-2015 02:39**
Data file Sample Info. Line: LCSD62;;D1525430AA;LCSD62;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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	1715136	9.868	9.87			0.2	1
46) Benzene	(2)	8.427(-0.000)	78	1822366	9.475	9.48			0.2	1
47) 1,2-Dichloroethane	(2)	8.486(-0.000)	62	874499	9.586	9.59			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	660957	9.348	9.35			0.2	1
52) Trichloroethene	(2)	9.660(0.000)	130	783546	9.184	9.18			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.087(0.000)	63	545428	9.126	9.13			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.609(0.000)	88	439721M	10.086	10.09			0.5	1
57) Methyl Methacrylate	(2)	10.502(0.000)	69	612222	9.855	9.86			0.5	1
58) Bromodichloromethane	(2)	10.680(0.000)	83	1462580	9.073	9.07			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.629(0.000)	75	1061090	10.718	10.72			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.103(-0.001)	43	942801	9.296	9.30			0.5	2
61) Toluene	(3)	12.305(-0.000)	91	2349889	9.701	9.70			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.874(-0.000)	75	979762	9.288	9.29			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	2040852	20.006	20.01			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.254(-0.000)	97	795299	9.575	9.58			0.2	1
67) Tetrachloroethene	(3)	13.503(-0.000)	166	1255775	8.289	8.29			0.2	1
68) 2-Hexanone	(3)	14.024(-0.000)	43	974841M	10.261	10.26			0.5	1
69) Dibromochloromethane	(3)	14.107(0.000)	127	1128739	8.917	8.92			0.2	1
70) 1,2-Dibromoethane	(3)	14.297(-0.000)	107	1241298	9.463	9.46			0.2	1
72) Chlorobenzene	(3)	15.519(0.000)	112	1813494	9.376	9.38			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.862(0.000)	91	3153346	9.706	9.71			0.2	1
75) m/p-Xylene	(3)	16.171(0.000)	91	5166774	18.235	18.24			0.2	1
76) o-Xylene	(3)	17.143(0.000)	91	2674457	9.962	9.96			0.2	1
77) Xylene (total)	(3)		91	7841231	28.197	28.20			0.2	1
78) Styrene	(3)	17.191(0.000)	104	1914333	9.581	9.58			0.2	1
79) Bromoform	(3)	17.570(0.000)	173	1538797	9.123	9.12			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)	18.993(0.000)	83	1713319	9.042	9.04			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)	19.550(0.000)	105	3517484	9.154	9.15			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.740(0.000)	105	3180858	9.251	9.25			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)	20.713(0.000)	105	3025151	8.900	8.90			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.377(0.000)	146	1792234	8.960	8.96			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.661(0.000)	146	1729822	8.651	8.65			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.183(0.000)	91	2225773	8.569	8.57			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.835(0.000)	146	1644880	8.639	8.64			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)	25.918(0.000)	180	1199613	8.275	8.28			0.5	2

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep11.b/di00204.d Injection date and time: **12-SEP-2015 02:39**
Data file Sample Info. Line: LCSD62;;D1525430AA;LCSD62;0;3;LCS; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.d**

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

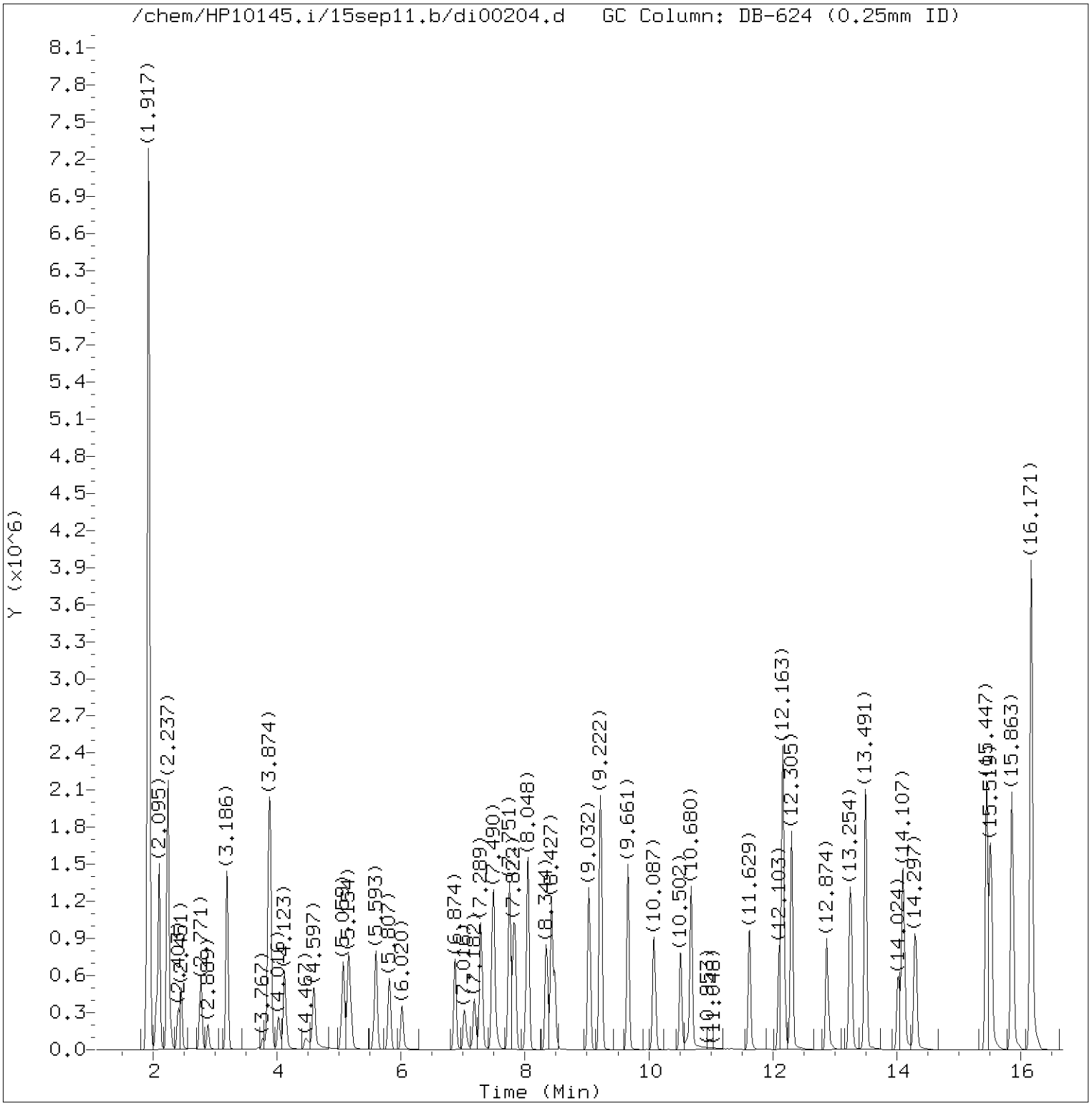
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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	1831744	8.416	8.42			0.4	2
102) Naphthalene	(3)	26.215(0.000)	128	2242375	8.931	8.93			0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:45. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

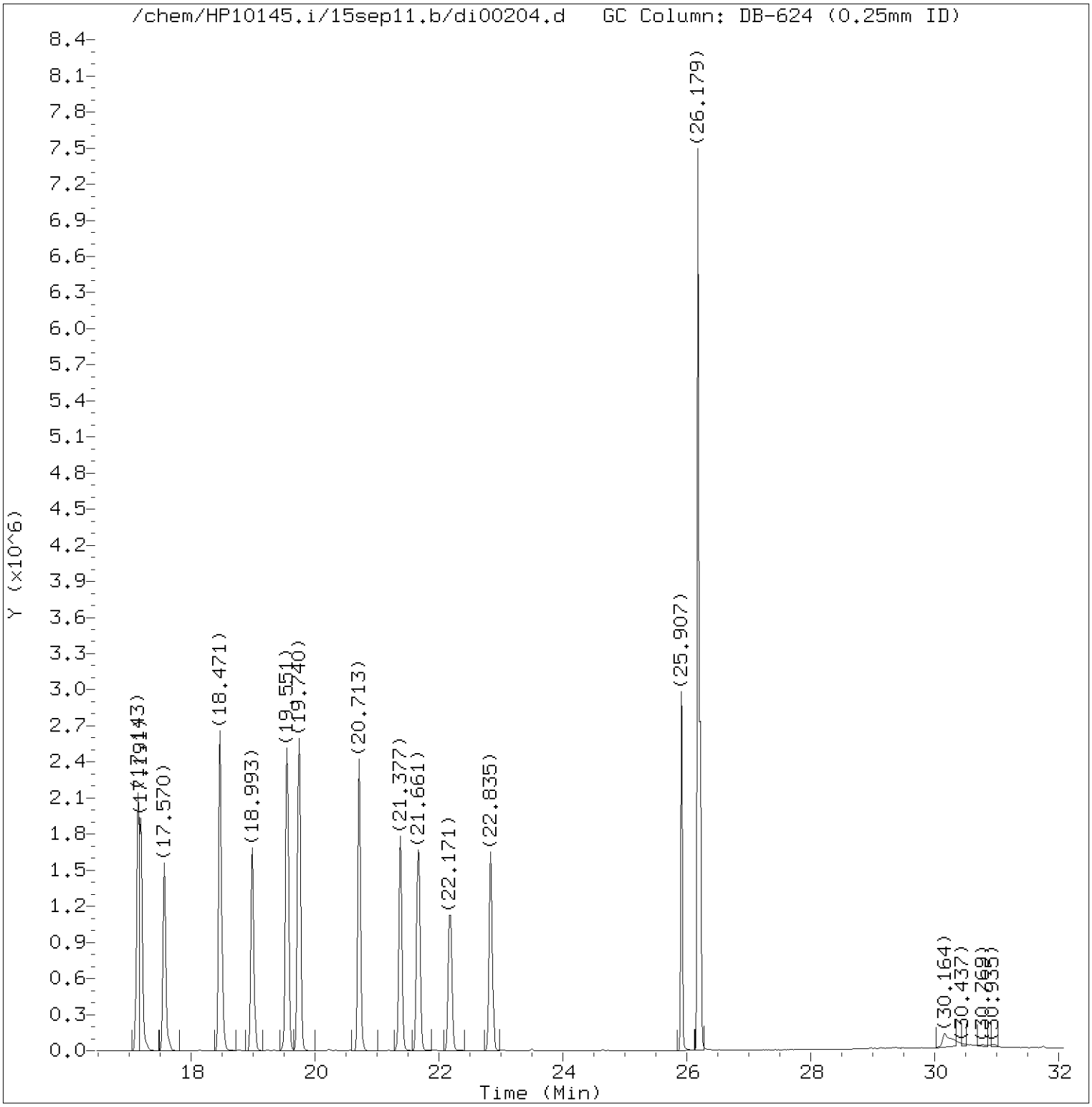
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	252618	8.823
2) Dichlorodifluoromethane	(1)	2.095	85	1946345	9.082
4) Freon 114	(1)	2.237	85	1531987	8.725
5) Chloromethane	(1)	2.285	52	102095	7.474
6) Vinyl Chloride	(1)	2.403	62	486234	9.017
7) 1,3-Butadiene	(1)	2.451	54	298873	9.040
8) Bromomethane	(1)	2.771	94	556006	8.664
9) Chloroethane	(1)	2.889	64	260114	8.731
12) Trichlorofluoromethane	(1)	3.186	101	1858637	8.927
14) Ethanol	(1)	3.708	45	127698M	7.534
16) Acrolein	(1)	3.767	56	129069	9.390
17) 1,1-Dichloroethene	(1)	3.850	61	836038	9.772
18) Freon 113	(1)	3.885	103	811841	9.187
19) Acetone	(1)	4.016	43	591090	9.727
21) Carbon Disulfide	(1)	4.123	76	1555331	8.825
22) Isopropanol	(1)	4.467	45	583845M	8.002
25) Methylene Chloride	(1)	4.597	84	478737	10.426
28) trans-1,2-Dichloroethene	(1)	5.059	61	693242	10.587
29) Methyl t-Butyl Ether	(1)	5.154	73	1684529	10.843
30) Hexane	(1)	5.593	57	679590	9.472
31) 1,1-Dichloroethane	(1)	5.807	63	943721	9.394
32) Vinyl Acetate	(1)	6.020	86	139375	10.875
36) 1,2-Dichloroethene (total)	(1)		61	1372821	20.074
35) cis-1,2-Dichloroethene	(1)	6.874	61	679579	9.487
37) 2-Butanone	(1)	7.016	72	292107	10.658
38) Ethyl Acetate	(1)	7.182	70	147653	8.835
40)*Bromochloromethane	(1)	7.289	130	666538	10.000
42) Chloroform	(1)	7.479	83	1347260	9.463
41) Tetrahydrofuran	(1)	7.490	42	389779	10.013
43) 1,1,1-Trichloroethane	(1)	7.751	97	1587756	9.449
44) Cyclohexane	(1)	7.822	56	722412	9.629
45) Carbon Tetrachloride	(1)	8.048	117	1715136	9.868
46) Benzene	(2)	8.427	78	1822366	9.475
47) 1,2-Dichloroethane	(2)	8.487	62	874499	9.586
50) Heptane	(2)	9.032	43	660957	9.348
51)*1,4-Difluorobenzene	(2)	9.222	114	2710861	10.000
52) Trichloroethene	(2)	9.661	130	783546	9.184
54) 1,2-Dichloropropane	(2)	10.087	63	545428	9.126

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

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

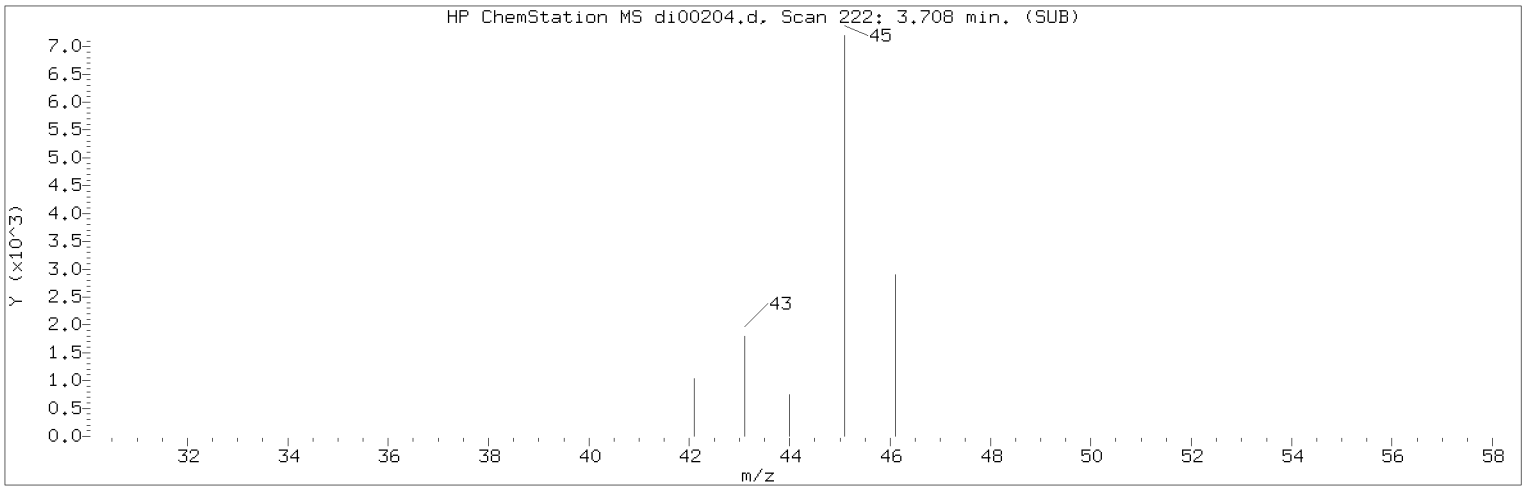
Sample Name: LCSD62 Lab Sample ID: LCSD62

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
57) Methyl Methacrylate	(2)	10.502	69	612222	9.855
56) 1,4-Dioxane	(2)	10.609	88	439721M	10.086
58) Bromodichloromethane	(2)	10.680	83	1462580	9.073
59) cis-1,3-Dichloropropene	(2)	11.629	75	1061090	10.718
60) 4-Methyl-2-Pentanone	(2)	12.103	43	942801	9.296
61) Toluene	(3)	12.305	91	2349889	9.701
63) trans-1,3-Dichloropropene	(3)	12.874	75	979762	9.288
64) 1,3-Dichloropropene (total)	(3)		75	2040852	20.006
66) 1,1,2-Trichloroethane	(3)	13.254	97	795299	9.575
67) Tetrachloroethene	(3)	13.503	166	1255775	8.289
68) 2-Hexanone	(3)	14.024	43	974841M	10.261
69) Dibromochloromethane	(3)	14.107	127	1128739	8.917
70) 1,2-Dibromoethane	(3)	14.297	107	1241298	9.463
71)*Chlorobenzene-d5	(3)	15.447	117	2442164	10.000
72) Chlorobenzene	(3)	15.519	112	1813494	9.376
74) Ethylbenzene	(3)	15.863	91	3153346	9.706
75) m/p-Xylene	(3)	16.171	91	5166774	18.235
76) o-Xylene	(3)	17.143	91	2674457	9.962
78) Styrene	(3)	17.191	104	1914333	9.581
77) Xylene (total)	(3)		91	7841231	28.197
79) Bromoform	(3)	17.570	173	1538797	9.123
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	1713319	9.042
86) 4-Ethyltoluene	(3)	19.551	105	3517484	9.154
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	3180858	9.251
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	3025151	8.900
92) 1,3-Dichlorobenzene	(3)	21.377	146	1792234	8.960
93) 1,4-Dichlorobenzene	(3)	21.661	146	1729822	8.651
95) Benzyl Chloride	(3)	22.183	91	2225773	8.569
96) 1,2-Dichlorobenzene	(3)	22.835	146	1644880	8.639
100) 1,2,4-Trichlorobenzene	(3)	25.919	180	1199613	8.275
101) Hexachlorobutadiene	(3)	26.179	225	1831744	8.416
102) Naphthalene	(3)	26.215	128	2242375	8.931

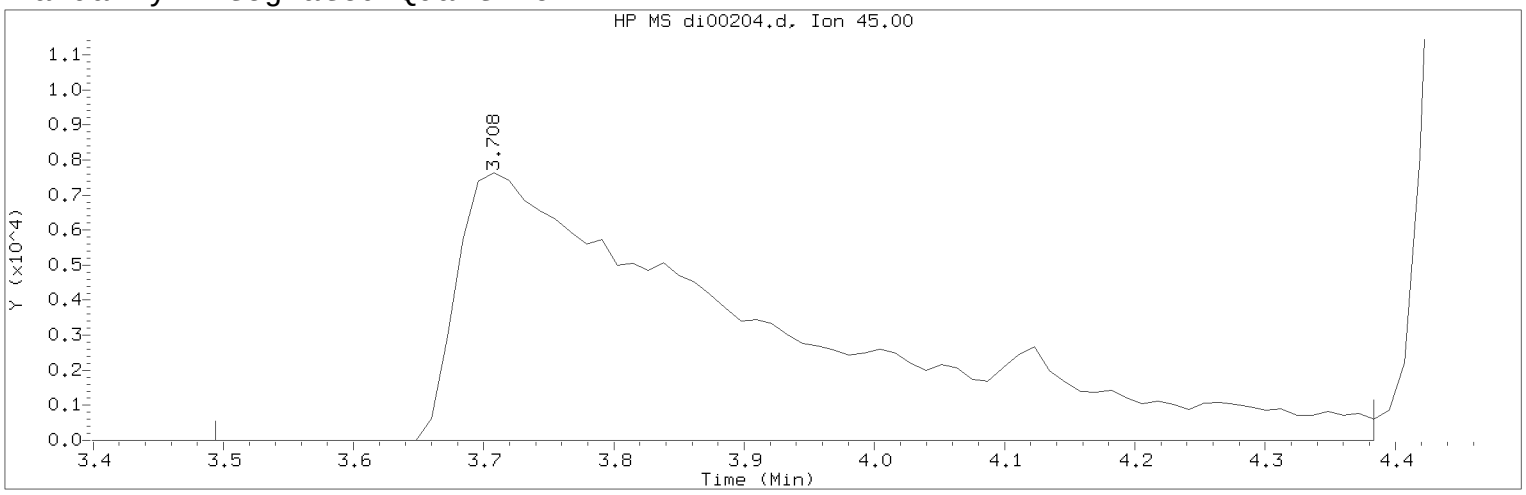
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

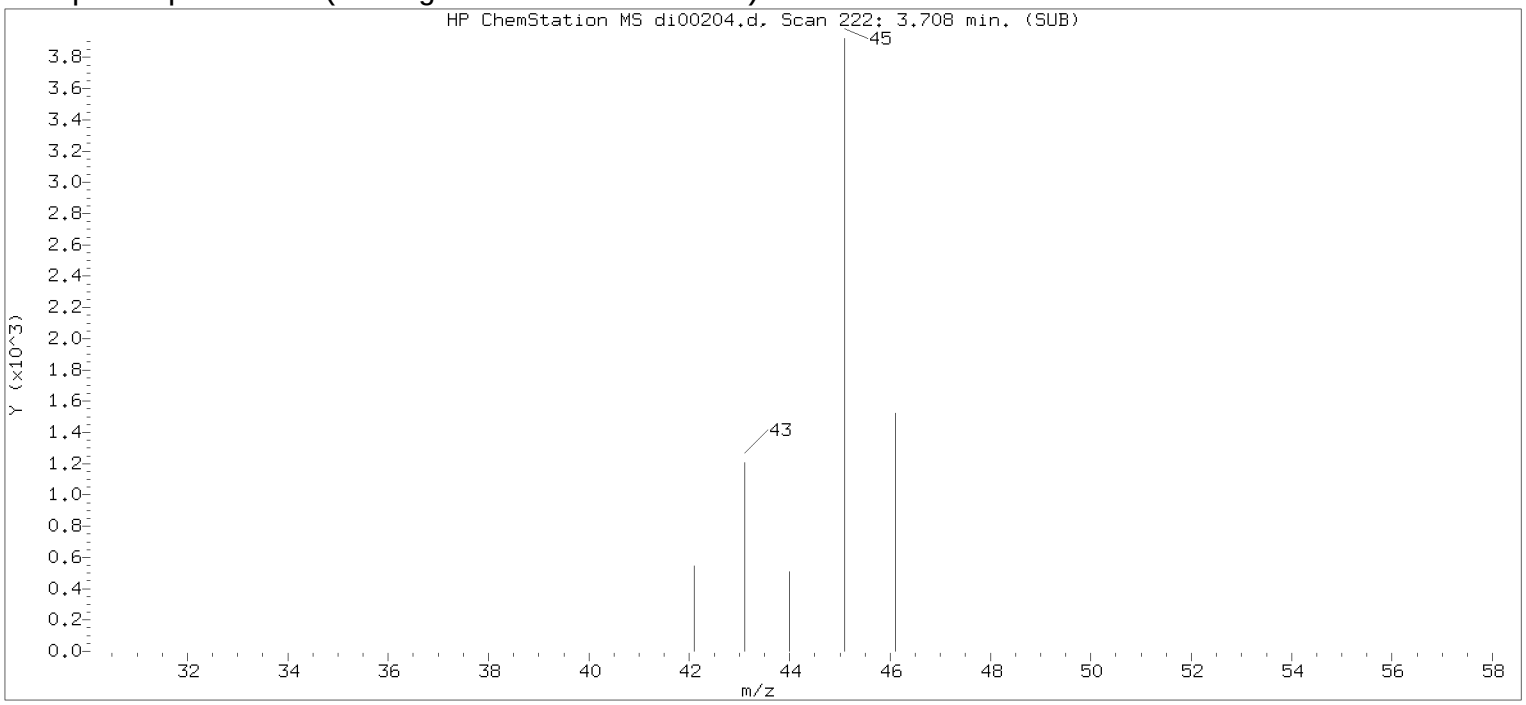
Compound Number : 14
Compound Name : Ethanol
Scan Number : 222
Retention Time (minutes): 3.708
Quant Ion : 45.00
Area (flag) : 127698M
Concentration (ppb(v)) : 7.5336
Integration start scan : 203 Integration stop scan: 278
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

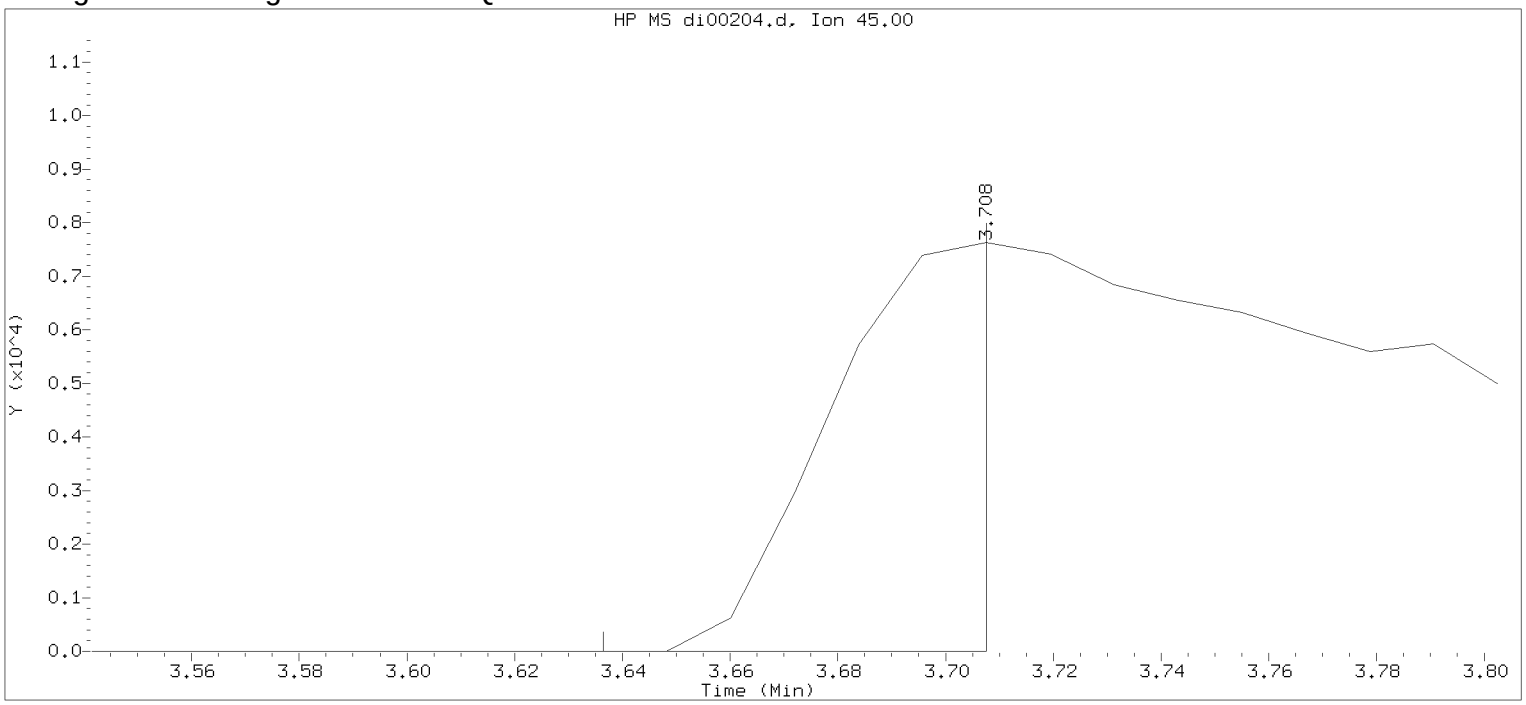
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:45.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

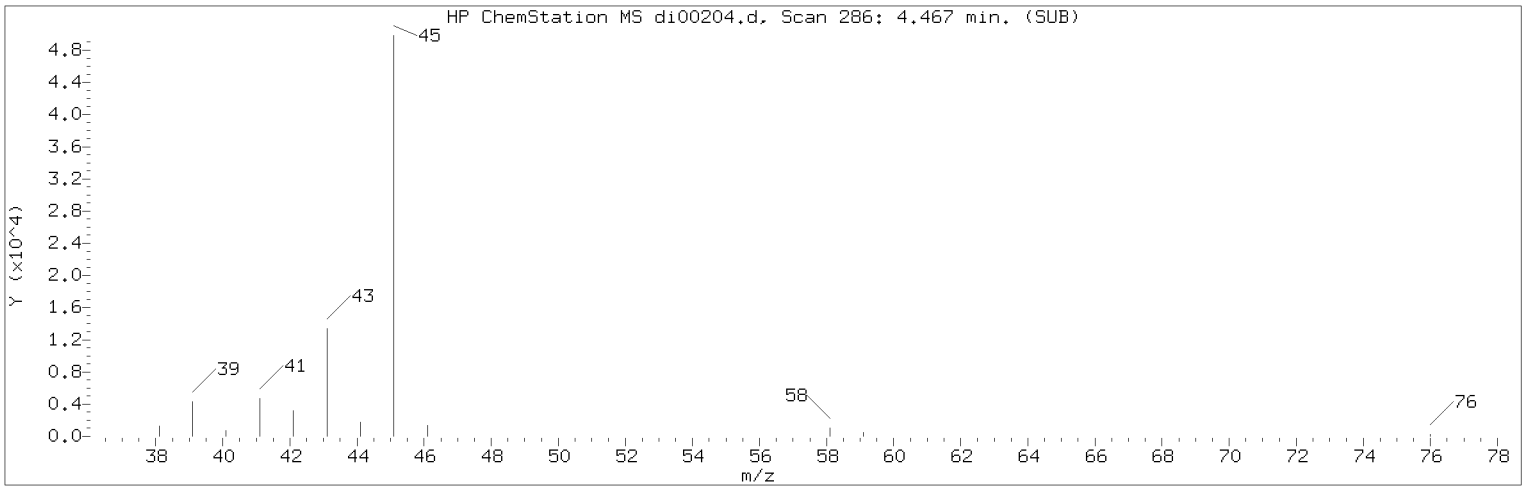
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 03:20 Automation

Sample Name: LCSD62 Lab Sample ID: LCSD62

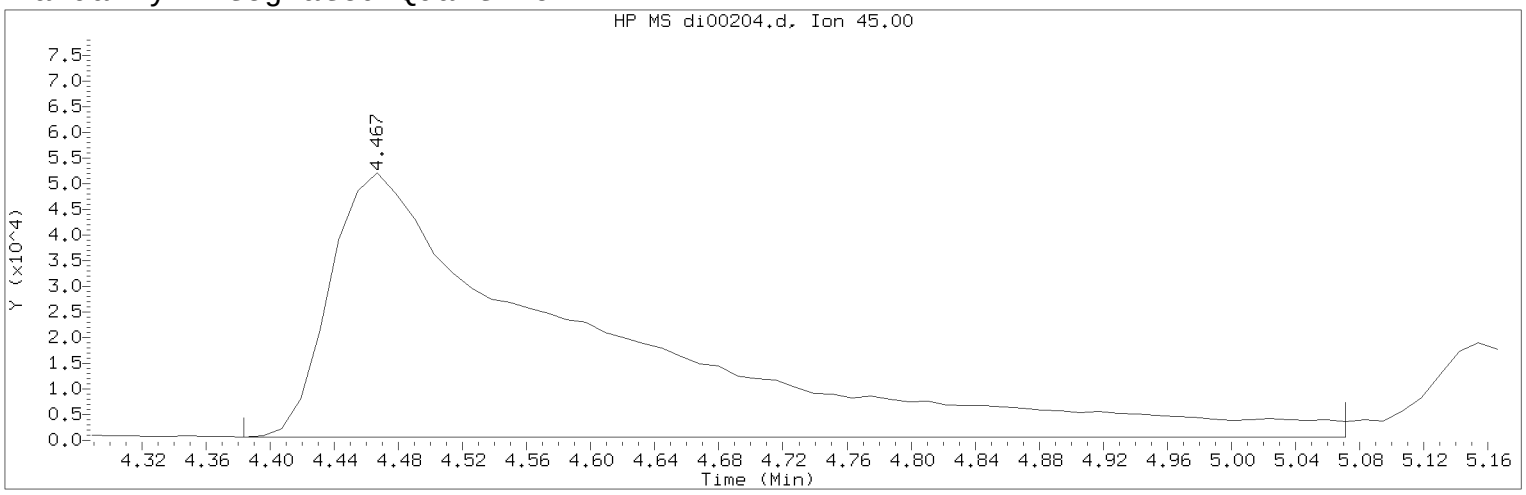
Compound Number : 14
Compound Name : Ethanol
Scan Number : 222
Retention Time (minutes): 3.708
Quant Ion : 45.00
Area : 14587
Concentration (ppb(v)) : 0.9838
Integration start scan : 215 Integration stop scan: 221
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature used for SSXD3 Page 1104 of 1243

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

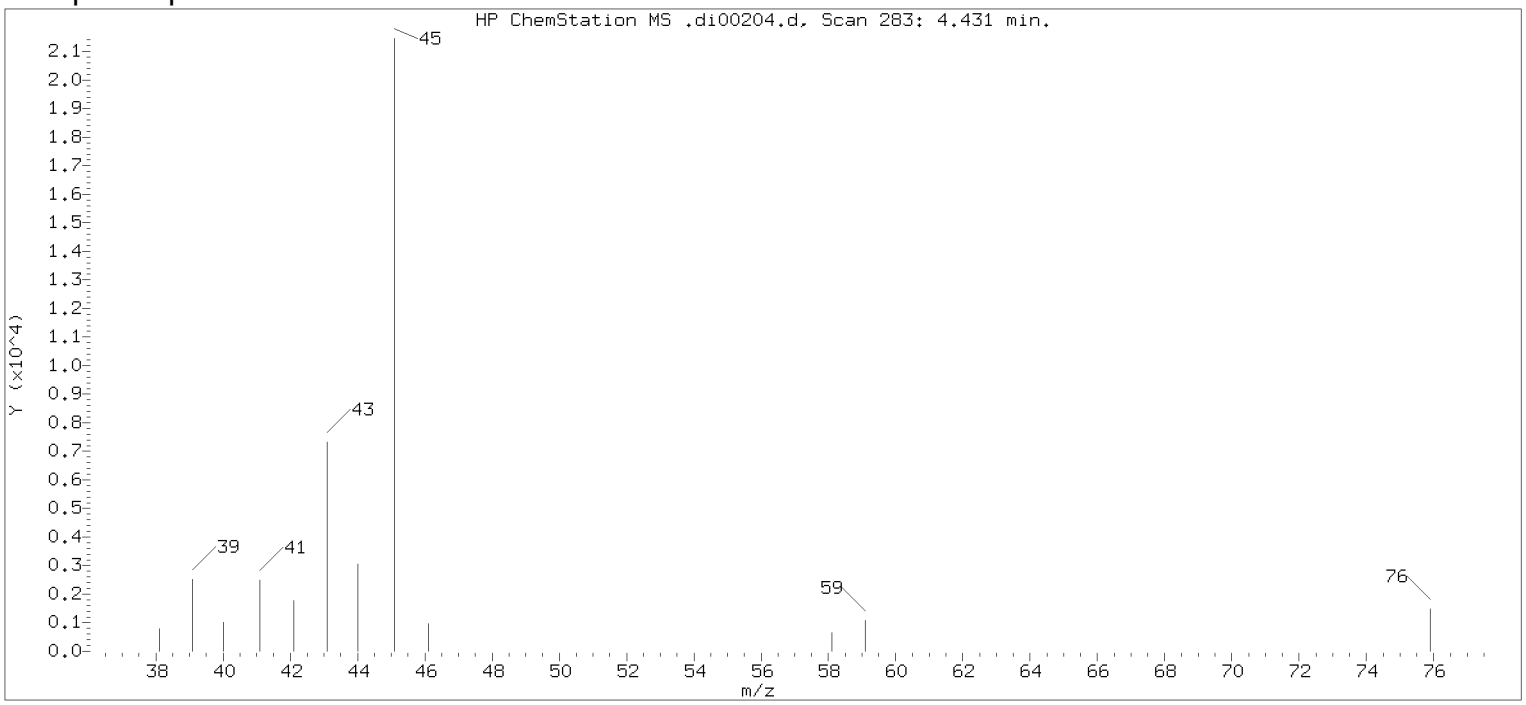
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 286
Retention Time (minutes): 4.467
Quant Ion : 45.00
Area (flag) : 583845M
Concentration (ppb(v)) : 8.0022
Integration start scan : 278 Integration stop scan: 336
Y at integration start : 594 Y at integration end: 594

Reason for manual integration: missed peak

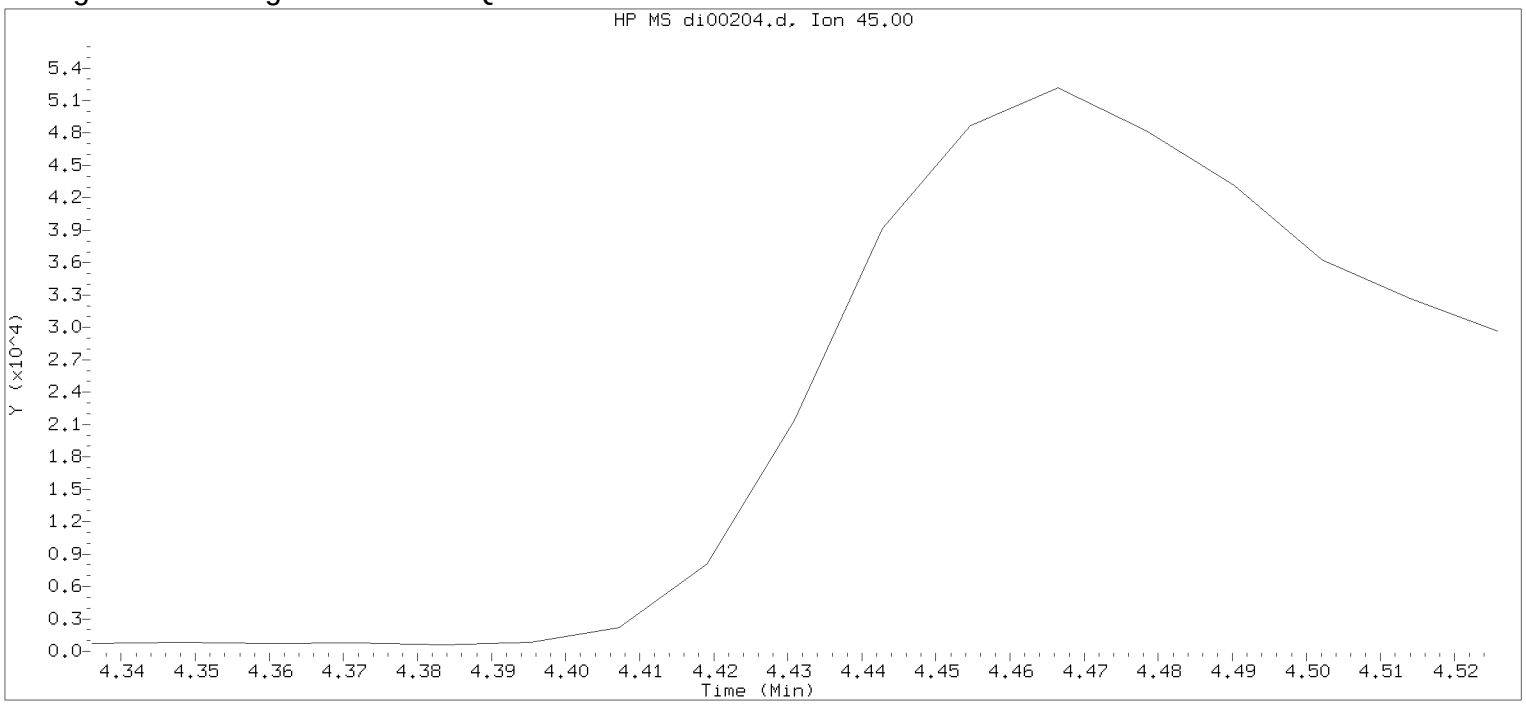
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:45.
Parallax ID: mar00486

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

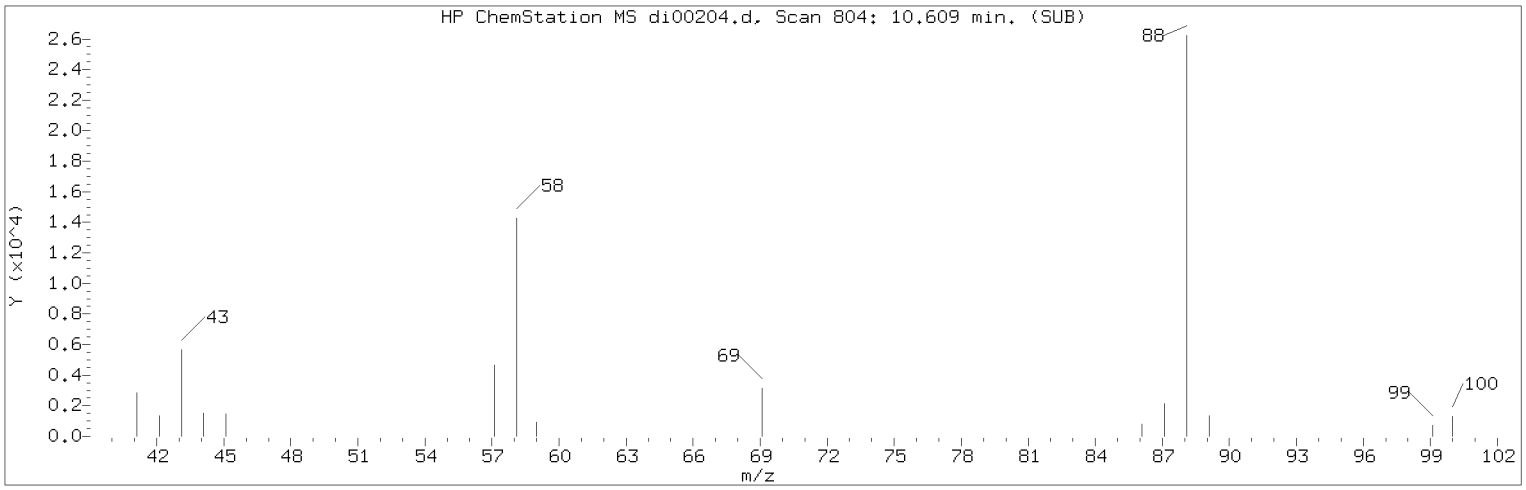
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 03:20 Automation

Sample Name: LCSD62 Lab Sample ID: LCSD62

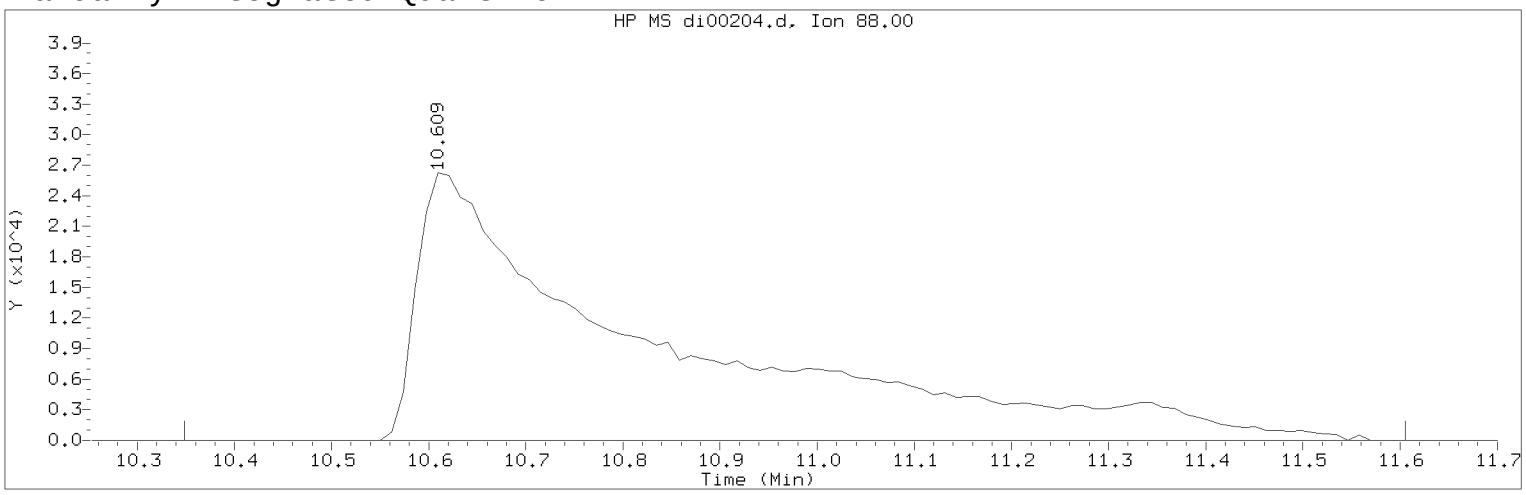
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.431
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

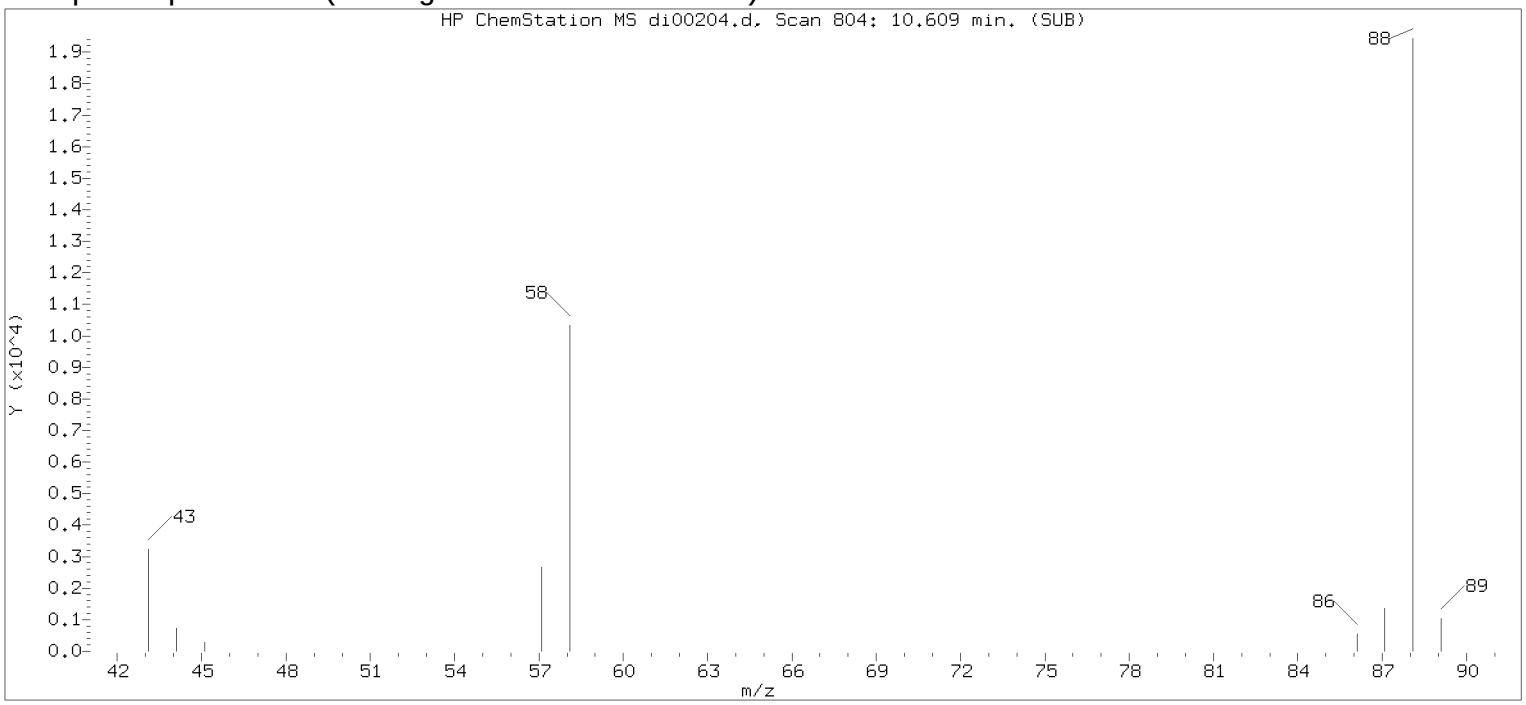
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 804
Retention Time (minutes): 10.609
Quant Ion : 88.00
Area (flag) : 439721M
Concentration (ppb(v)) : 10.0861
Integration start scan : 781 Integration stop scan: 887
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

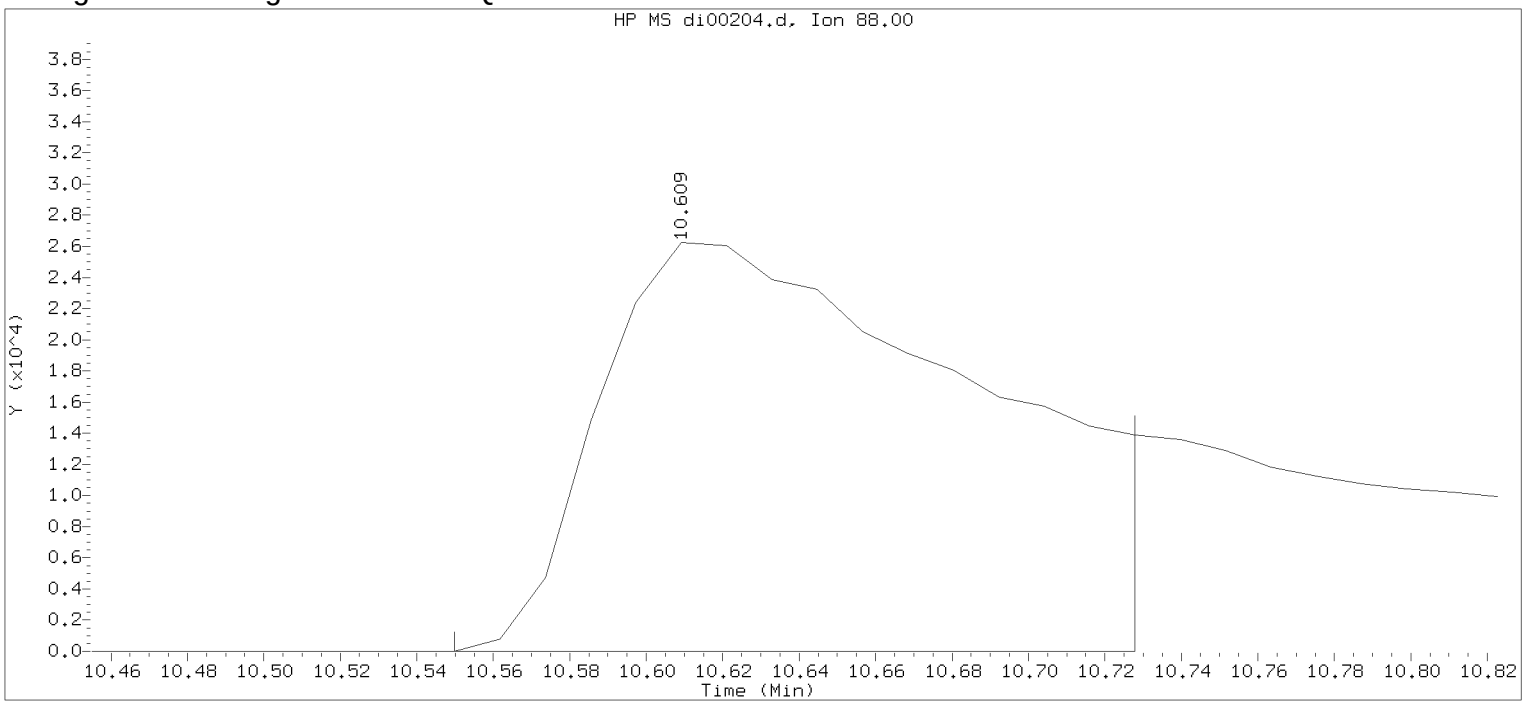
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:45.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

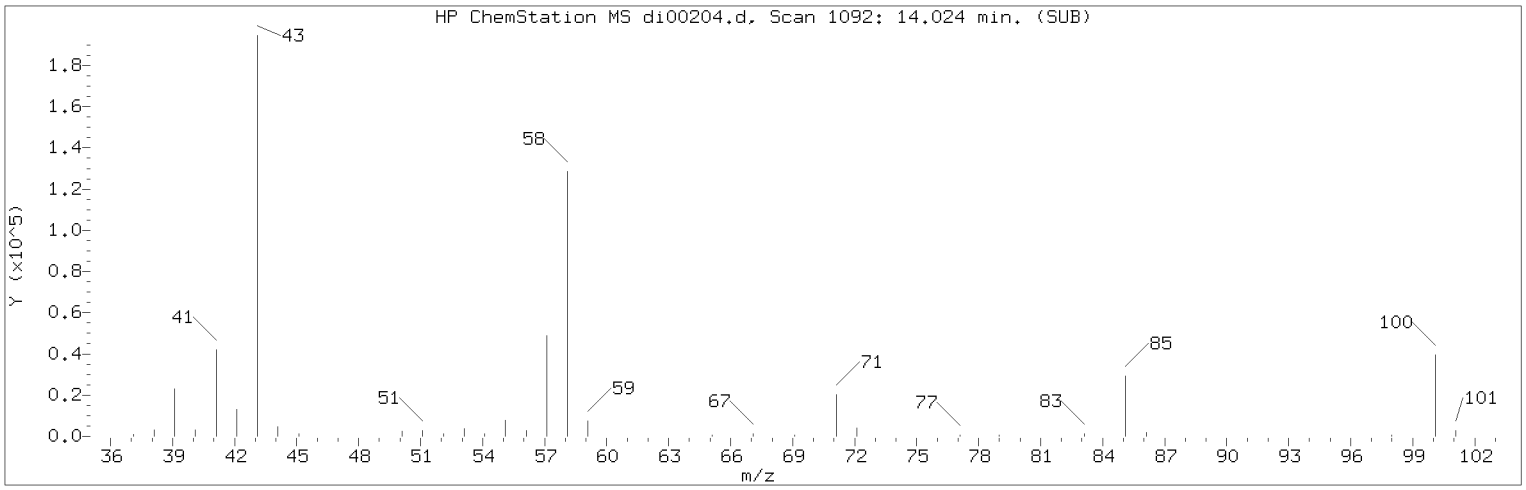
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 03:20 Automation

Sample Name: LCSD62 Lab Sample ID: LCSD62

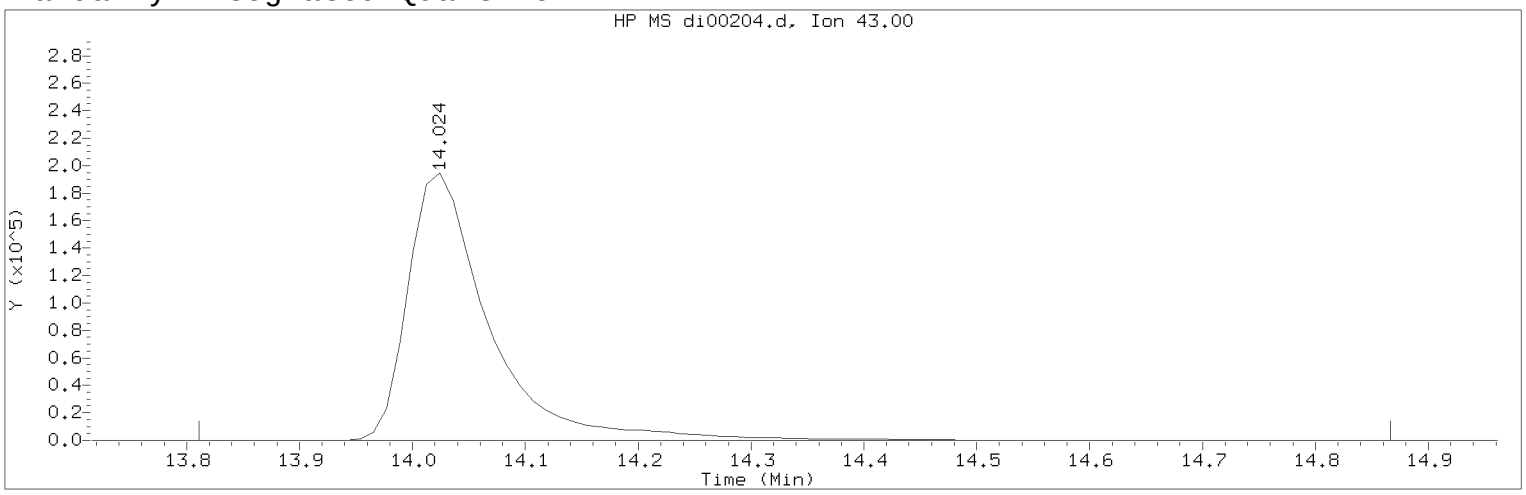
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 804
Retention Time (minutes): 10.609
Quant Ion : 88.00
Area : 180187
Concentration (ppb(v)) : 6.8359
Integration start scan : 798 Integration stop scan: 813
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature use SSXD3 Page 1114 of 1243

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:41 jbs01304

Sample Name: LCSD62 Lab Sample ID: LCSD62

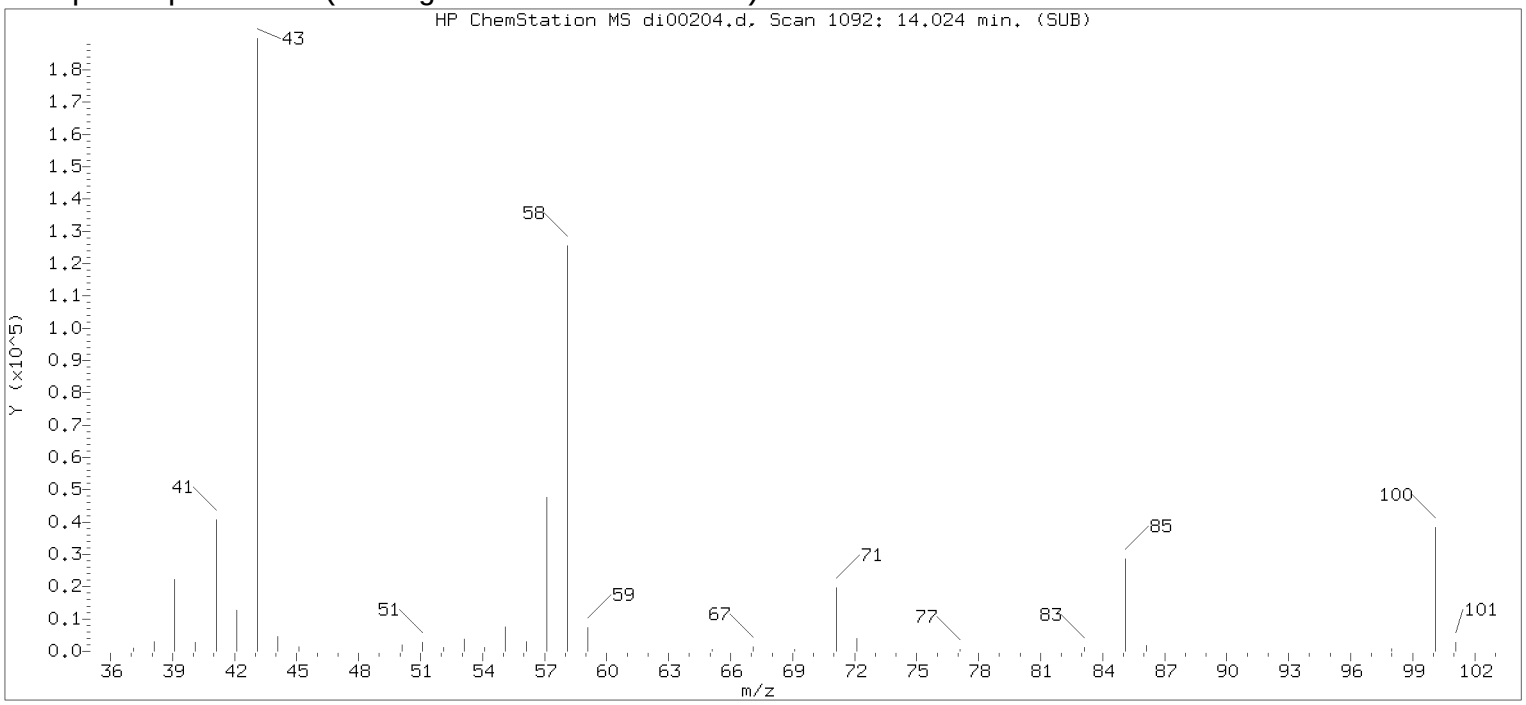
Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.024
Quant Ion : 43.00
Area (flag) : 974841M
Concentration (ppb(v)) : 10.2608
Integration start scan : 1073 Integration stop scan: 1162
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

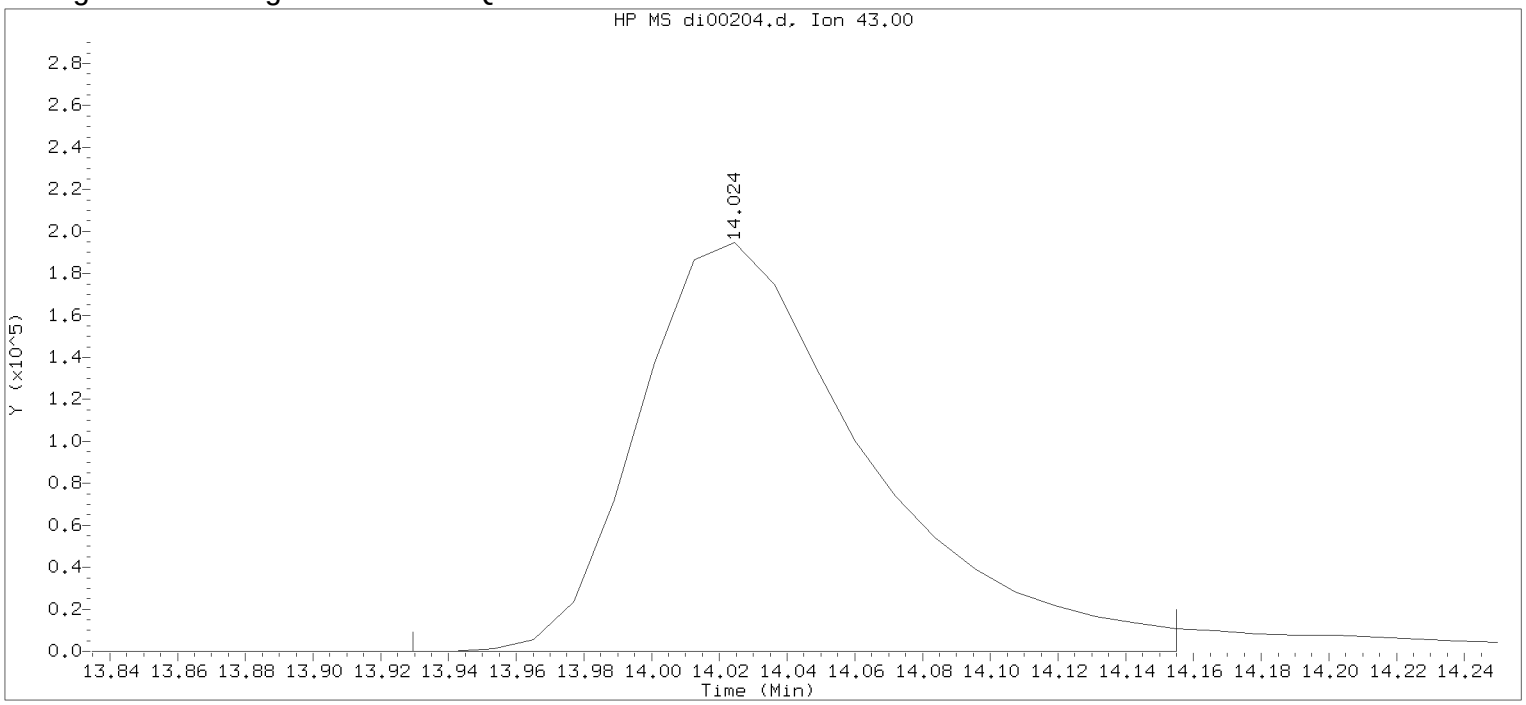
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:45.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00204.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 02:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 03:20 Automation

Sample Name: LCSD62 Lab Sample ID: LCSD62

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.024
Quant Ion : 43.00
Area : 913723
Concentration (ppb(v)) : 11.7313
Integration start scan : 1083 Integration stop scan: 1102
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature used SSXD3 Page 1106 of 1243

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

LCSDD62

Data file: /chem/HP10145.i/15sep11.b/di00205.d Injection date and time: **12-SEP-2015 03:25**
Data file Sample Info. Line: LCSDD62;;D1525430AA;LCSDD62;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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	696028 (12)	10.00		374393 - 873581
51) 1,4-Difluorobenzene	9.222(0.000)	687	114	2843771 (14)	10.00		1493411 - 3484625
71) Chlorobenzene-d5	15.448(0.000)	1212	117	2535598 (16)	10.00		1310232 - 3057208

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	264592	8.850	8.85			0.5	1
2) Dichlorodifluoromethane	(1)	2.095(-0.001)	85	1952967	8.727	8.73			0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)	2.225(-0.000)	85	1558874	8.502	8.50			0.2	1
5) Chloromethane	(1)	2.273(-0.000)	52	104128	7.300	7.30			0.5	2
6) Vinyl Chloride	(1)	2.403(-0.000)	62	500054	8.880	8.88			0.2	1
7) 1,3-Butadiene	(1)	2.451(-0.000)	54	306037	8.865	8.86			0.4	2
8) Bromomethane	(1)	2.771(-0.001)	94	563547	8.409	8.41			0.2	1
9) Chloroethane	(1)	2.889(-0.001)	64	263947	8.484	8.48			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	1875097	8.625	8.62			0.2	1
13) Pentane	(1)			Not Detected					0.2	1
14) Ethanol	(1)	3.719(-0.003)	45	125658M	7.099	7.10			0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)	3.767(-0.001)	56	130725	9.108	9.11			0.5	2
17) 1,1-Dichloroethene	(1)	3.850(-0.000)	61	844710	9.455	9.45			0.2	1
18) Freon 113	(1)	3.885(-0.000)	103	815599	8.839	8.84			0.5	2
19) Acetone	(1)	4.016(-0.001)	43	590253	9.301	9.30			0.5	1
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)	4.123(-0.000)	76	1569766	8.529	8.53			0.5	1
22) Isopropanol	(1)	4.466(-0.004)	45	606708M	7.963	7.96			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	480129	10.013	10.01			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	696975	10.193	10.19			0.2	1
29) Methyl t-Butyl Ether	(1)	5.154(-0.001)	73	1697968	10.466	10.47			0.2	1
30) Hexane	(1)	5.593(-0.000)	57	688849	9.195	9.19			0.2	1
31) 1,1-Dichloroethane	(1)	5.806(-0.000)	63	947368	9.031	9.03			0.2	1
32) Vinyl Acetate	(1)	6.020(-0.001)	86	140687	10.512	10.51			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	687455	9.191	9.19			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	1384430	19.383	19.38			0.2	1
37) 2-Butanone	(1)	7.028(-0.001)	72	290398	10.147	10.15			0.5	2
38) Ethyl Acetate	(1)	7.182(-0.001)	70	149522	8.568	8.57			0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)	7.502(-0.003)	42	394426	9.703	9.70			0.5	1
42) Chloroform	(1)	7.479(0.001)	83	1329768	8.945	8.94			0.2	1
43) 1,1,1-Trichloroethane	(1)	7.751(0.000)	97	1562625	8.905	8.91			0.2	1
44) Cyclohexane	(1)	7.822(0.000)	56	724030	9.242	9.24			0.2	1

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Data file: /chem/HP10145.i/15sep11.b/di00205.d Injection date and time: **12-SEP-2015 03:25**
Data file Sample Info. Line: LCSDD62;;D1525430AA;LCSDD62;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.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	1675321	9.230	9.23			0.2	1
46) Benzene	(2)	8.427(-0.000)	78	1807266	8.958	8.96			0.2	1
47) 1,2-Dichloroethane	(2)	8.486(-0.000)	62	863976	9.028	9.03			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	658337	8.875	8.88			0.2	1
52) Trichloroethene	(2)	9.660(0.000)	130	787122	8.795	8.80			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.087(0.000)	63	543665	8.672	8.67			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.633(-0.002)	88	438914M	9.597	9.60			0.5	1
57) Methyl Methacrylate	(2)	10.514(-0.001)	69	609028	9.346	9.35			0.5	1
58) Bromodichloromethane	(2)	10.680(0.000)	83	1437080	8.498	8.50			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.629(0.000)	75	1047791	10.089	10.09			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.103(-0.001)	43	941092	8.845	8.85			0.5	2
61) Toluene	(3)	12.305(-0.000)	91	2309661	9.183	9.18			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)	12.874(-0.000)	75	963496	8.797	8.80			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	2011287	18.886	18.89			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.254(-0.000)	97	779472	9.039	9.04			0.2	1
67) Tetrachloroethene	(3)	13.491(0.000)	166	1230009	7.820	7.82			0.2	1
68) 2-Hexanone	(3)	14.024(-0.000)	43	974723M	9.882	9.88			0.5	1
69) Dibromochloromethane	(3)	14.108(-0.000)	127	1105514	8.411	8.41			0.2	1
70) 1,2-Dibromoethane	(3)	14.297(-0.000)	107	1210078	8.885	8.89			0.2	1
72) Chlorobenzene	(3)	15.519(0.000)	112	1794364	8.936	8.94			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.862(0.000)	91	3110767	9.222	9.22			0.2	1
75) m/p-Xylene	(3)	16.171(0.000)	91	5090766	17.305	17.30			0.2	1
76) o-Xylene	(3)	17.143(0.000)	91	2645435	9.491	9.49			0.2	1
77) Xylene (total)	(3)		91	7736201	26.796	26.80			0.2	1
78) Styrene	(3)	17.191(0.000)	104	1890781	9.114	9.11			0.2	1
79) Bromoform	(3)	17.570(0.000)	173	1507313	8.607	8.61			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)	18.993(0.000)	83	1689562	8.588	8.59			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)	19.550(0.000)	105	3494992	8.760	8.76			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.740(0.000)	105	3143160	8.805	8.80			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)	20.713(0.000)	105	2999943	8.500	8.50			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.377(0.000)	146	1790473	8.622	8.62			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.661(0.000)	146	1722140	8.295	8.30			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.183(0.000)	91	2247057	8.332	8.33			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.835(0.000)	146	1639601	8.294	8.29			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)	25.918(0.000)	180	1198351	7.962	7.96			0.5	2

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep11.b/di00205.d Injection date and time: **12-SEP-2015 03:25**
Data file Sample Info. Line: LCSDD62;;D1525430AA;LCSDD62;0;3;LCSD; Instrument ID: **HP10145.i** Batch: **D1525430AA**
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep11.b/di00203.d**

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 13:37
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep11.b/di00201.d**

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

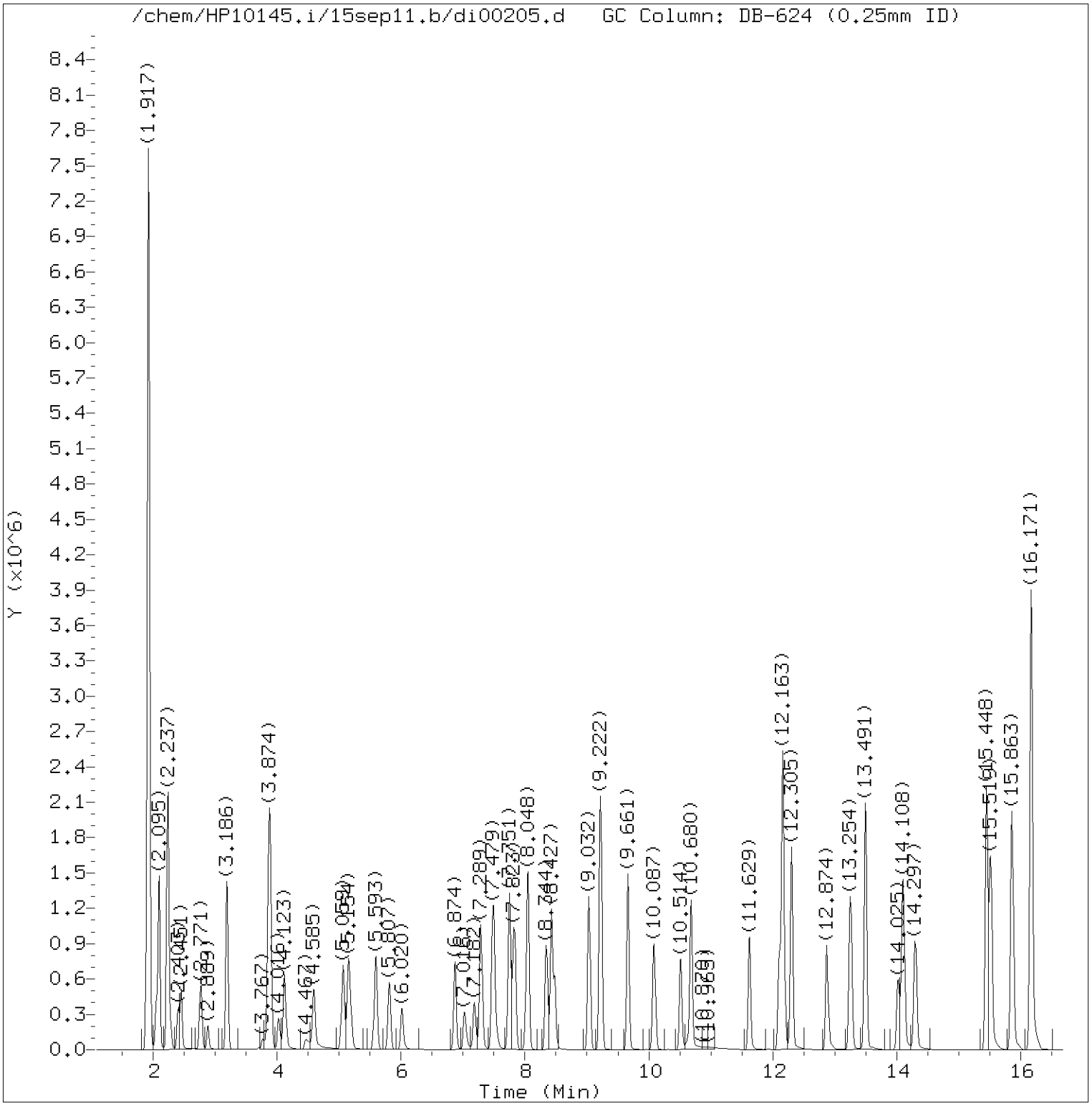
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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	1821910	8.063	8.06			0.4	2
102) Naphthalene	(3)	26.215(0.000)	128	2268283	8.701	8.70			0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:46. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

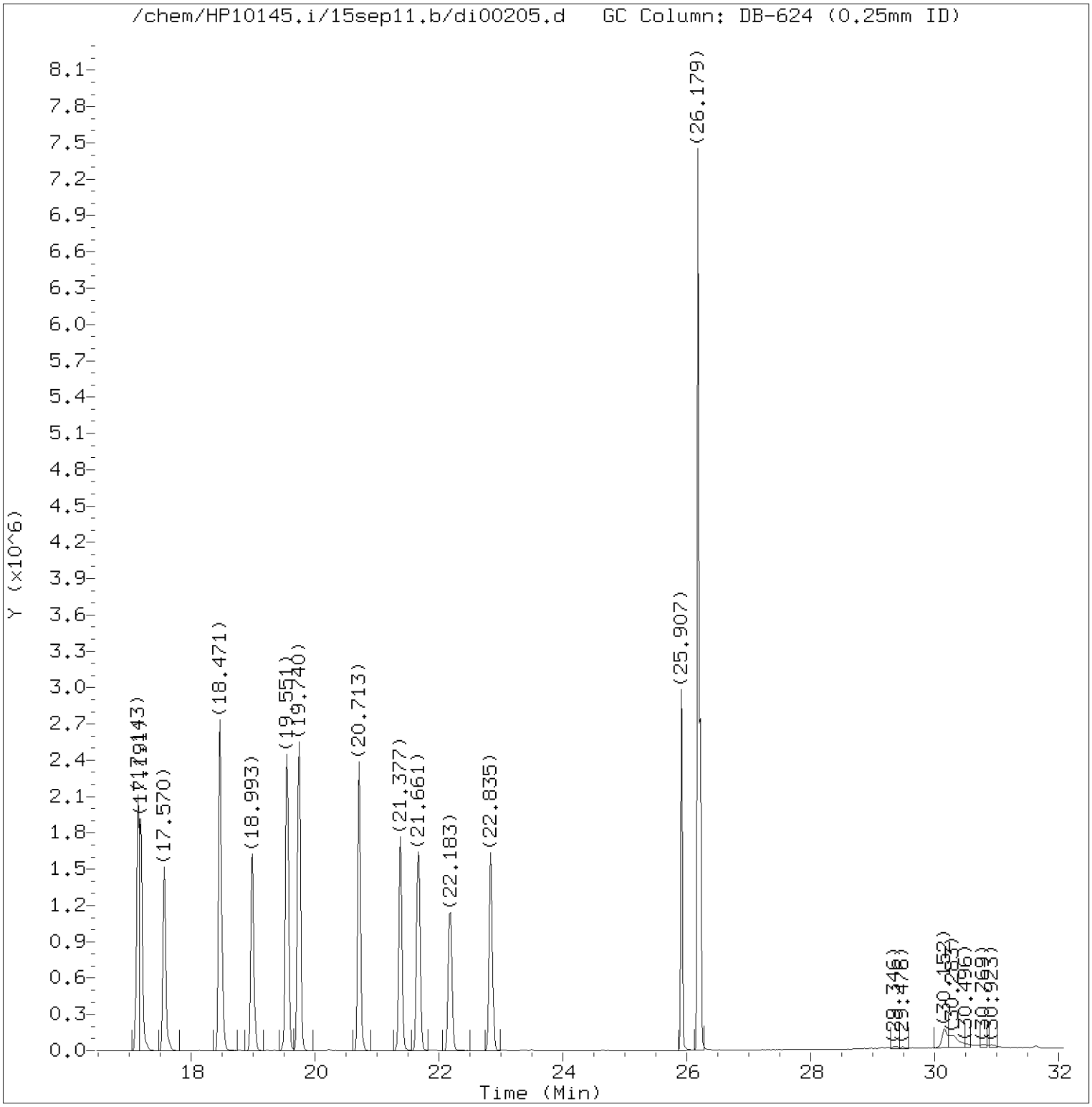
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	264592	8.850
2) Dichlorodifluoromethane	(1)	2.095	85	1952967	8.727
4) Freon 114	(1)	2.225	85	1558874	8.502
5) Chloromethane	(1)	2.273	52	104128	7.300
6) Vinyl Chloride	(1)	2.403	62	500054	8.880
7) 1,3-Butadiene	(1)	2.451	54	306037	8.865
8) Bromomethane	(1)	2.771	94	563547	8.409
9) Chloroethane	(1)	2.889	64	263947	8.484
12) Trichlorofluoromethane	(1)	3.186	101	1875097	8.625
14) Ethanol	(1)	3.719	45	125658M	7.099
16) Acrolein	(1)	3.767	56	130725	9.108
17) 1,1-Dichloroethene	(1)	3.850	61	844710	9.455
18) Freon 113	(1)	3.885	103	815599	8.839
19) Acetone	(1)	4.016	43	590253	9.301
21) Carbon Disulfide	(1)	4.123	76	1569766	8.529
22) Isopropanol	(1)	4.467	45	606708M	7.963
25) Methylene Chloride	(1)	4.597	84	480129	10.013
28) trans-1,2-Dichloroethene	(1)	5.059	61	696975	10.193
29) Methyl t-Butyl Ether	(1)	5.154	73	1697968	10.466
30) Hexane	(1)	5.593	57	688849	9.195
31) 1,1-Dichloroethane	(1)	5.807	63	947368	9.031
32) Vinyl Acetate	(1)	6.020	86	140687	10.512
36) 1,2-Dichloroethene (total)	(1)		61	1384430	19.383
35) cis-1,2-Dichloroethene	(1)	6.874	61	687455	9.191
37) 2-Butanone	(1)	7.028	72	290398	10.147
38) Ethyl Acetate	(1)	7.182	70	149522	8.568
40)*Bromochloromethane	(1)	7.289	130	696028	10.000
42) Chloroform	(1)	7.479	83	1329768	8.945
41) Tetrahydrofuran	(1)	7.502	42	394426	9.703
43) 1,1,1-Trichloroethane	(1)	7.751	97	1562625	8.905
44) Cyclohexane	(1)	7.823	56	724030	9.242
45) Carbon Tetrachloride	(1)	8.048	117	1675321	9.230
46) Benzene	(2)	8.427	78	1807266	8.958
47) 1,2-Dichloroethane	(2)	8.487	62	863976	9.028
50) Heptane	(2)	9.032	43	658337	8.875
51)*1,4-Difluorobenzene	(2)	9.222	114	2843771	10.000
52) Trichloroethene	(2)	9.661	130	787122	8.795
54) 1,2-Dichloropropane	(2)	10.087	63	543665	8.672

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

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

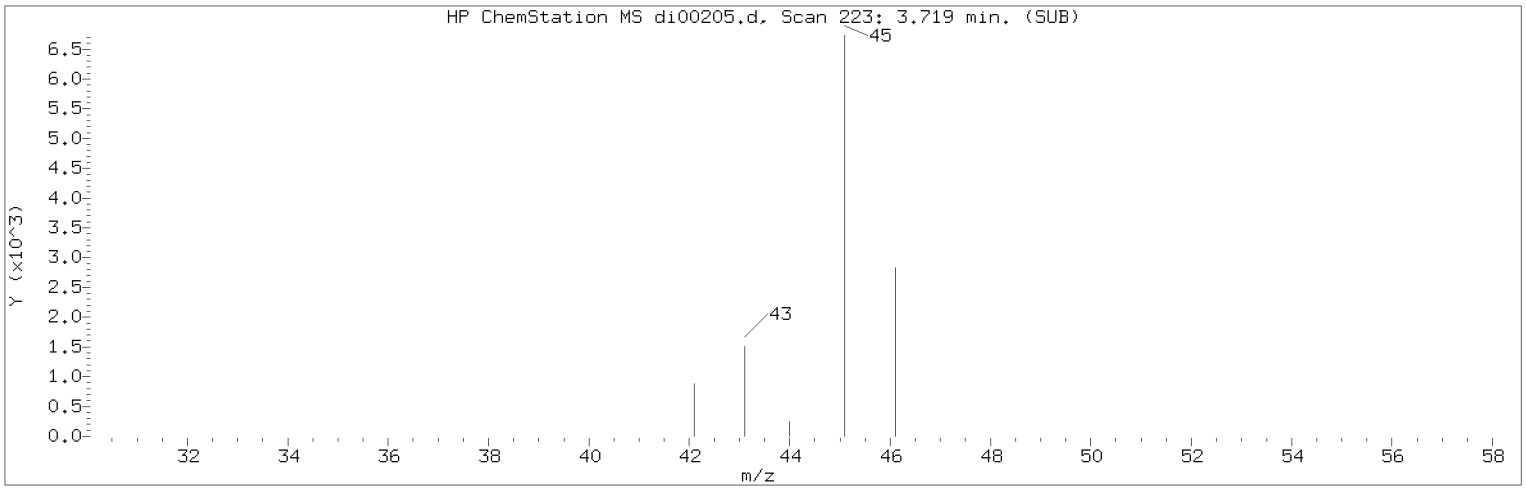
Sample Name: LCSDD62 Lab Sample ID: LCSDD62

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
57) Methyl Methacrylate	(2)	10.514	69	609028	9.346
56) 1,4-Dioxane	(2)	10.633	88	438914M	9.597
58) Bromodichloromethane	(2)	10.680	83	1437080	8.498
59) cis-1,3-Dichloropropene	(2)	11.629	75	1047791	10.089
60) 4-Methyl-2-Pentanone	(2)	12.103	43	941092	8.845
61) Toluene	(3)	12.305	91	2309661	9.183
63) trans-1,3-Dichloropropene	(3)	12.874	75	963496	8.797
64) 1,3-Dichloropropene (total)	(3)		75	2011287	18.886
66) 1,1,2-Trichloroethane	(3)	13.254	97	779472	9.039
67) Tetrachloroethene	(3)	13.491	166	1230009	7.820
68) 2-Hexanone	(3)	14.025	43	974723M	9.882
69) Dibromochloromethane	(3)	14.108	127	1105514	8.411
70) 1,2-Dibromoethane	(3)	14.297	107	1210078	8.885
71)*Chlorobenzene-d5	(3)	15.448	117	2535598	10.000
72) Chlorobenzene	(3)	15.519	112	1794364	8.936
74) Ethylbenzene	(3)	15.863	91	3110767	9.222
75) m/p-Xylene	(3)	16.171	91	5090766	17.305
76) o-Xylene	(3)	17.143	91	2645435	9.491
78) Styrene	(3)	17.191	104	1890781	9.114
77) Xylene (total)	(3)		91	7736201	26.796
79) Bromoform	(3)	17.570	173	1507313	8.607
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	1689562	8.588
86) 4-Ethyltoluene	(3)	19.551	105	3494992	8.760
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	3143160	8.805
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	2999943	8.500
92) 1,3-Dichlorobenzene	(3)	21.377	146	1790473	8.622
93) 1,4-Dichlorobenzene	(3)	21.661	146	1722140	8.295
95) Benzyl Chloride	(3)	22.183	91	2247057	8.332
96) 1,2-Dichlorobenzene	(3)	22.835	146	1639601	8.294
100) 1,2,4-Trichlorobenzene	(3)	25.919	180	1198351	7.962
101) Hexachlorobutadiene	(3)	26.179	225	1821910	8.063
102) Naphthalene	(3)	26.215	128	2268283	8.701

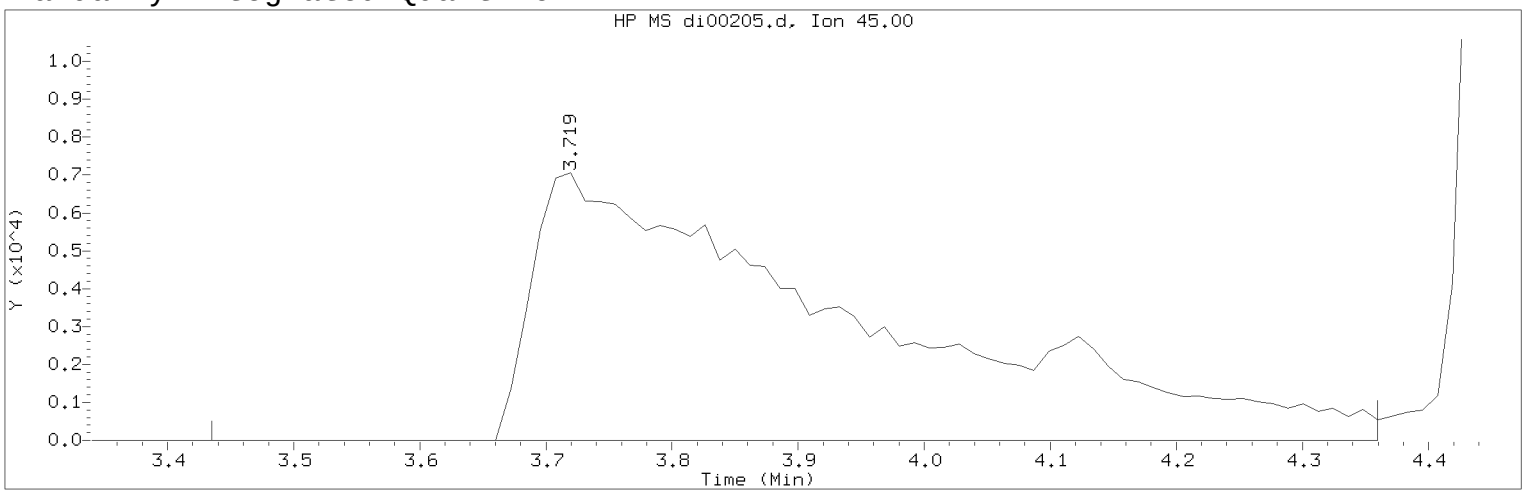
M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

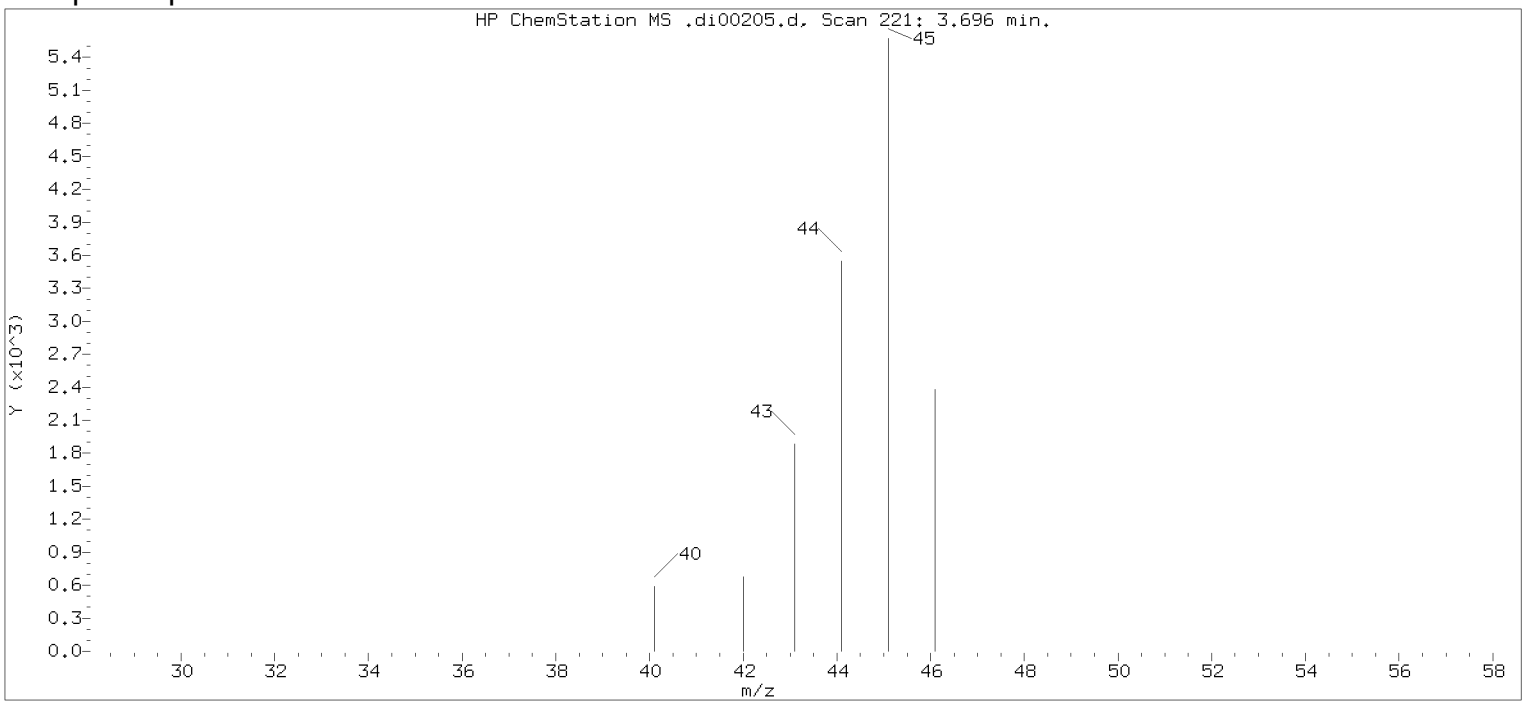
Compound Number : 14
Compound Name : Ethanol
Scan Number : 223
Retention Time (minutes): 3.719
Quant Ion : 45.00
Area (flag) : 125658M
Concentration (ppb(v)) : 7.0992
Integration start scan : 198 Integration stop scan: 276
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

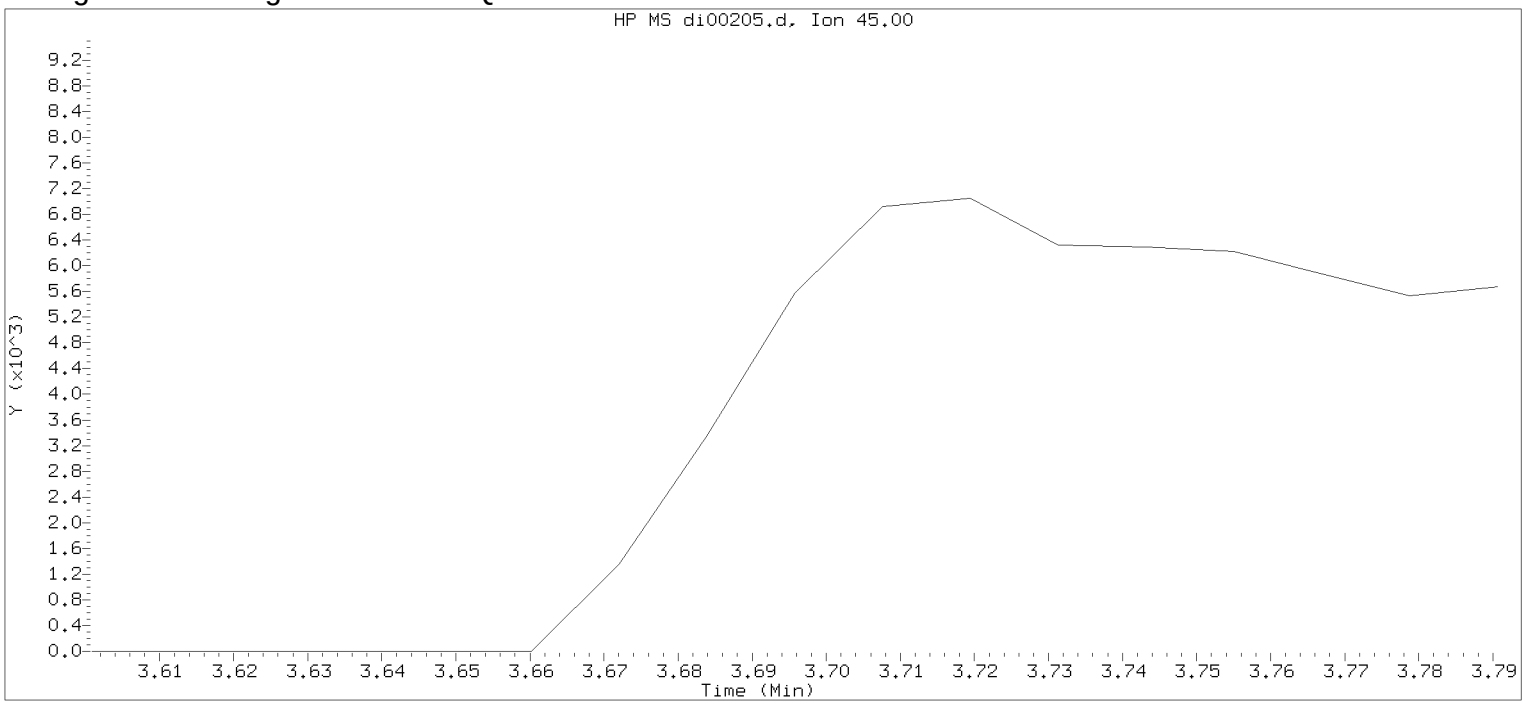
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:46.
Parallax ID: mar00486

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

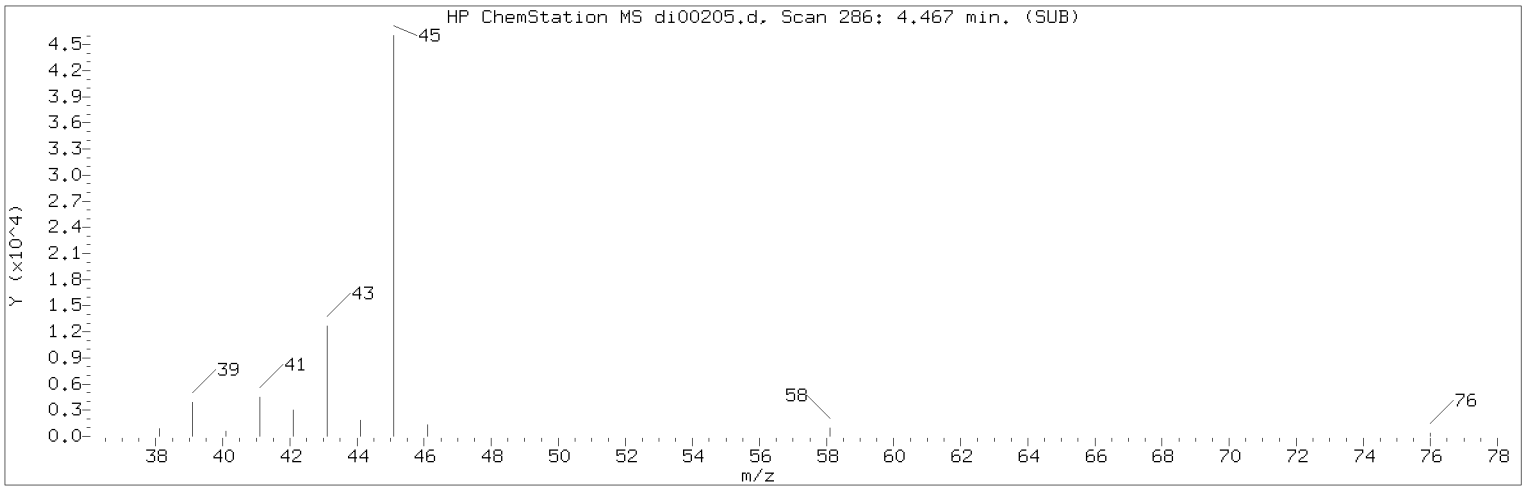
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 04:05 Automation

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

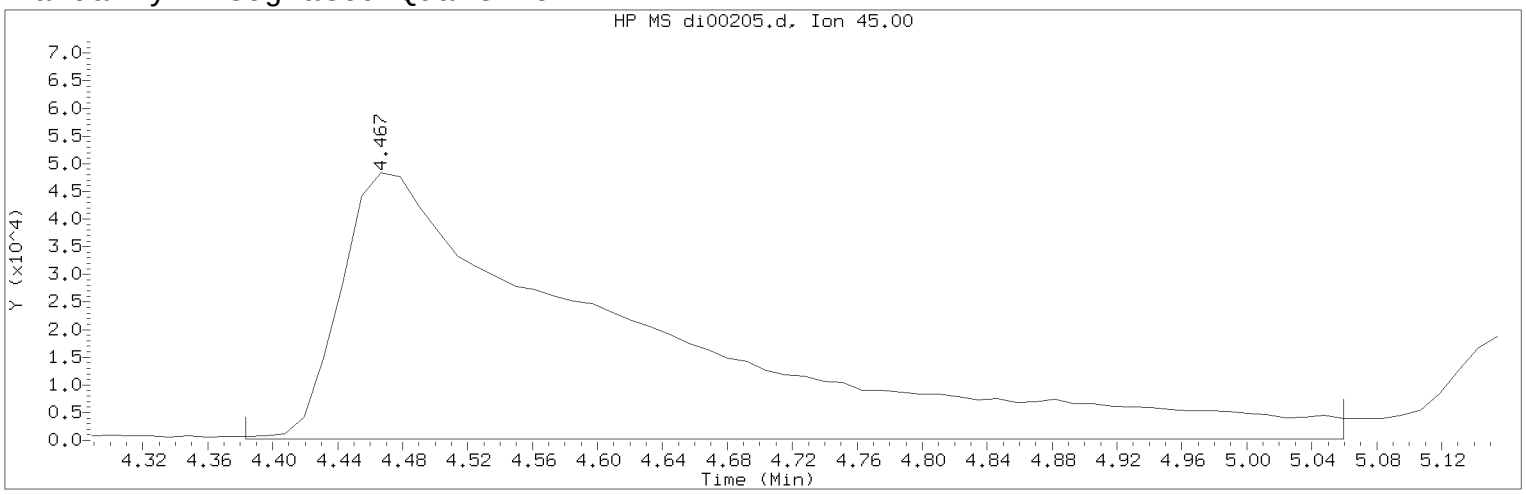
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.696
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

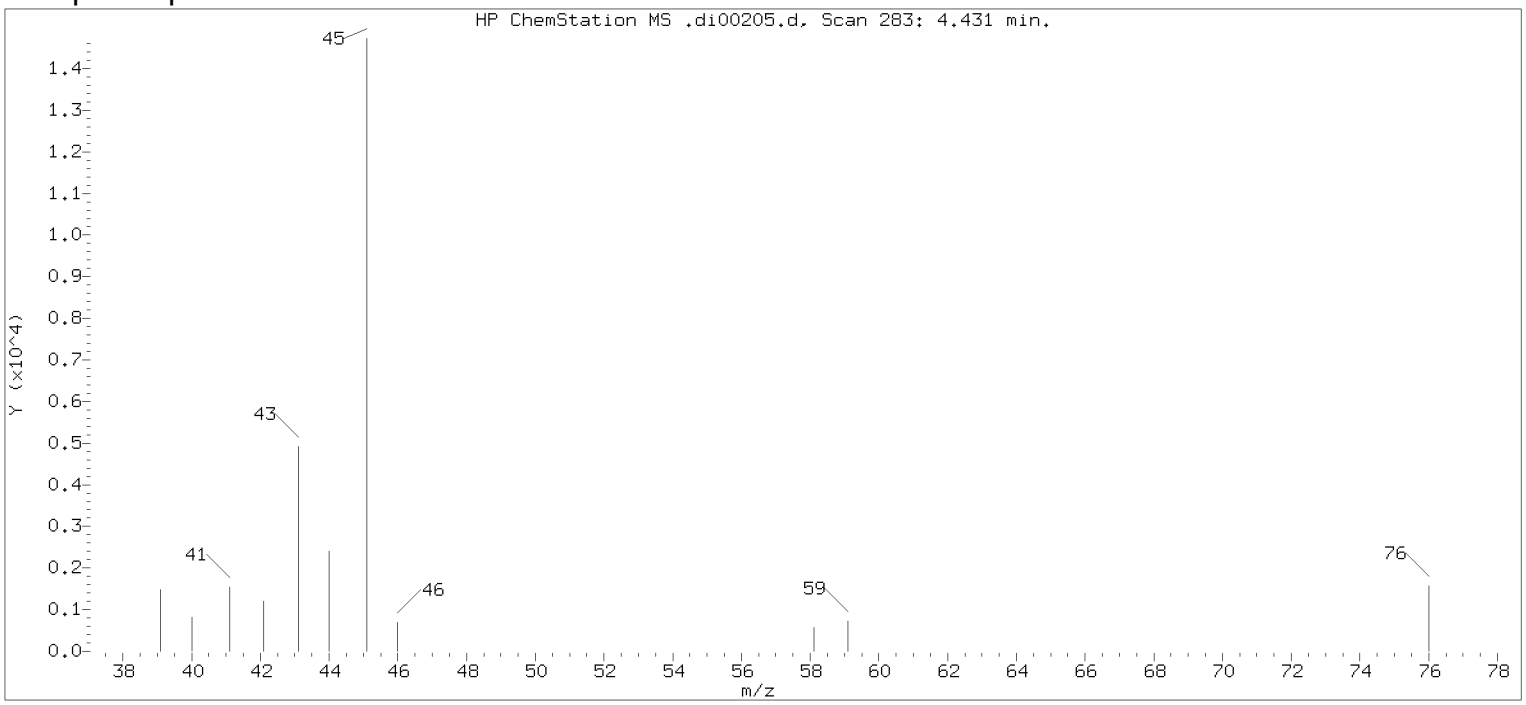
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 286
Retention Time (minutes): 4.467
Quant Ion : 45.00
Area (flag) : 606708M
Concentration (ppb(v)) : 7.9632
Integration start scan : 278 Integration stop scan: 335
Y at integration start : 228 Y at integration end: 228

Reason for manual integration: missed peak

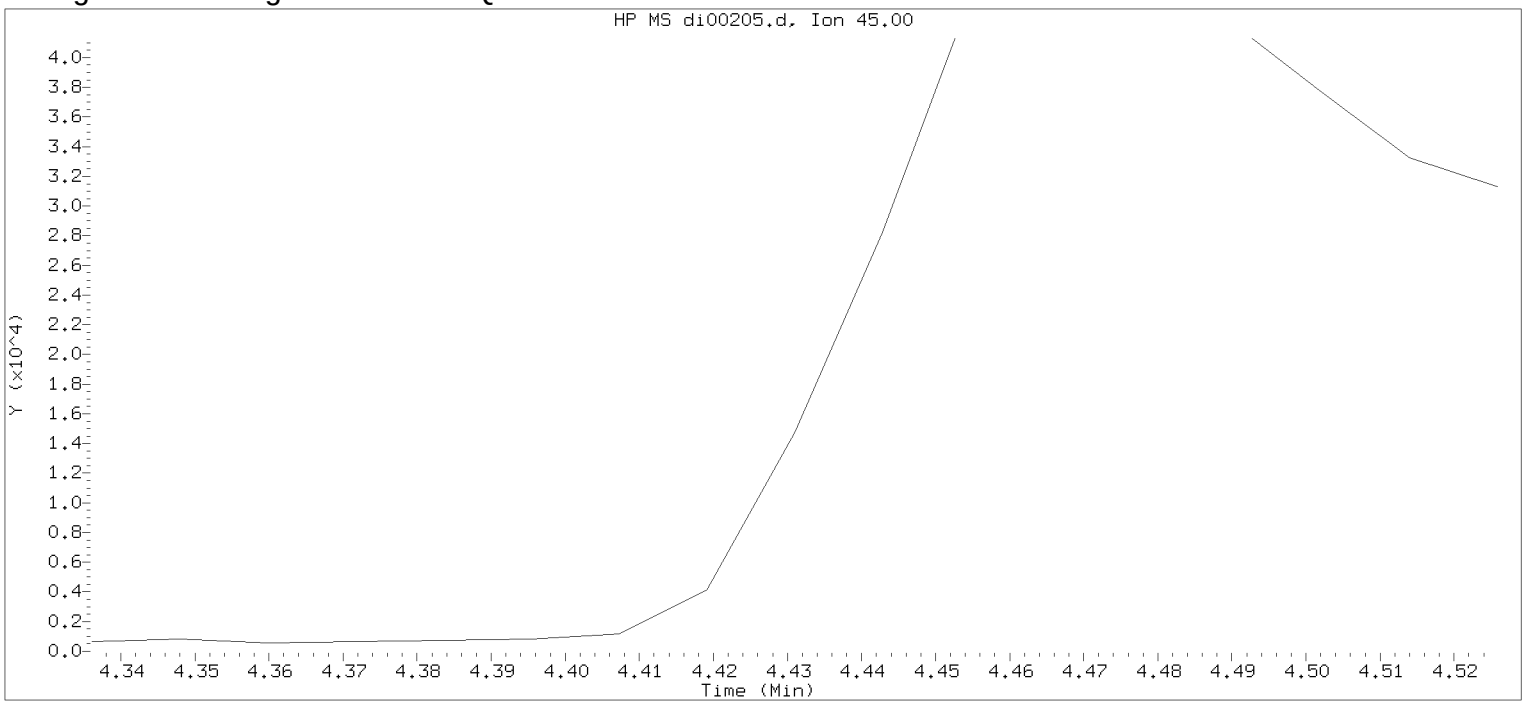
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:46.
Parallax ID: mar00486

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

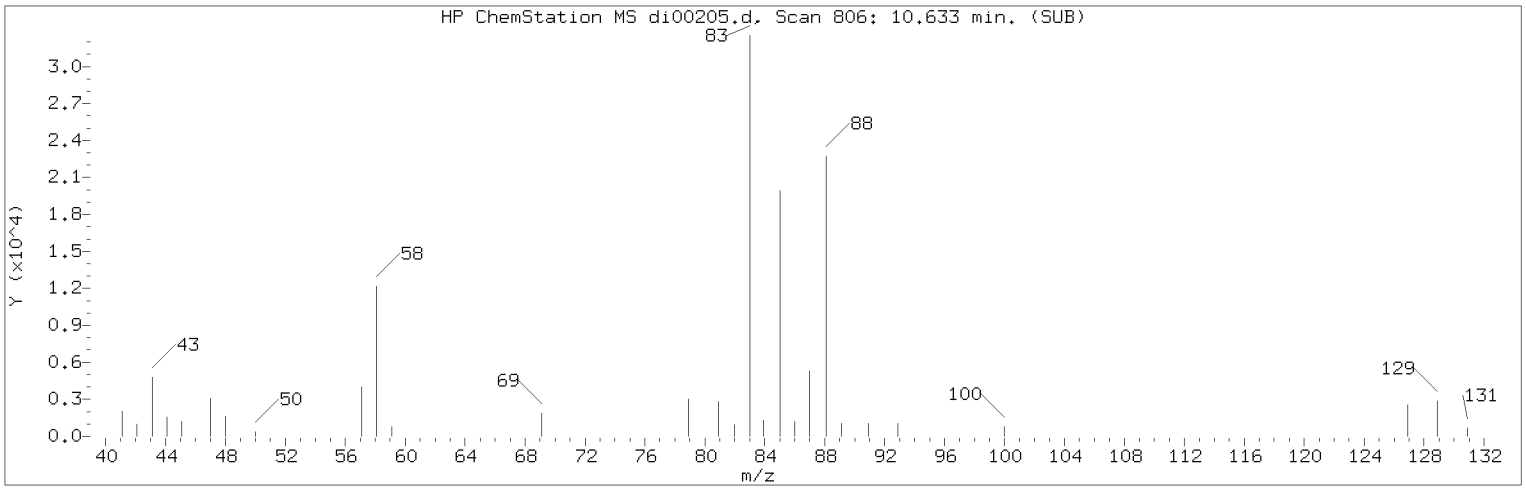
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 04:05 Automation

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

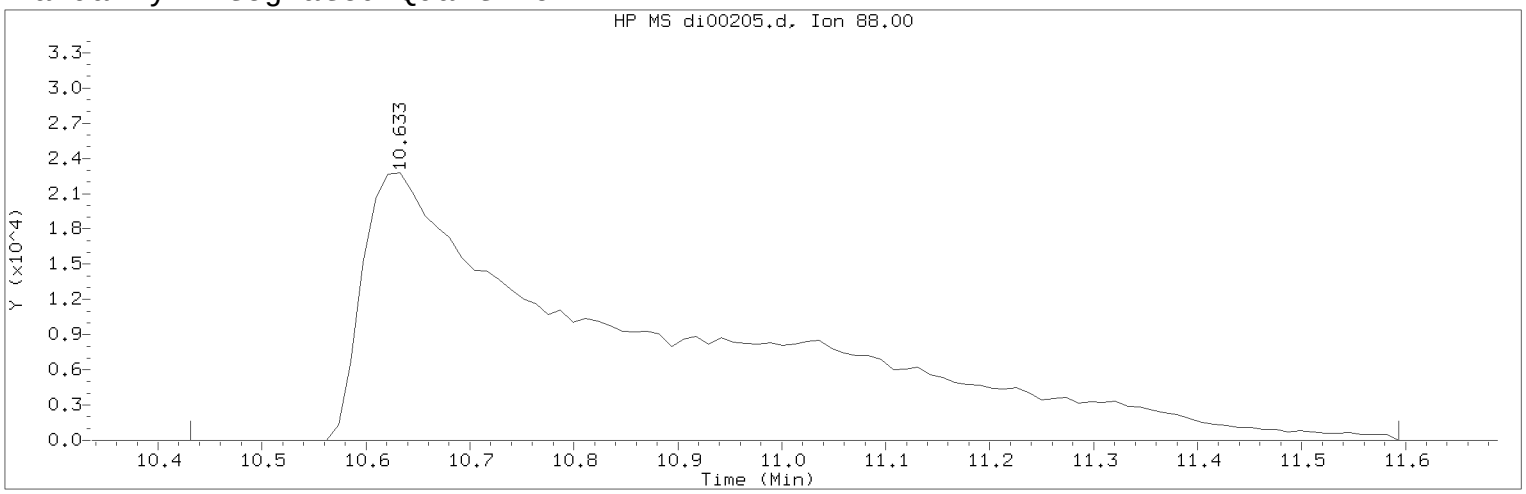
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.431
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

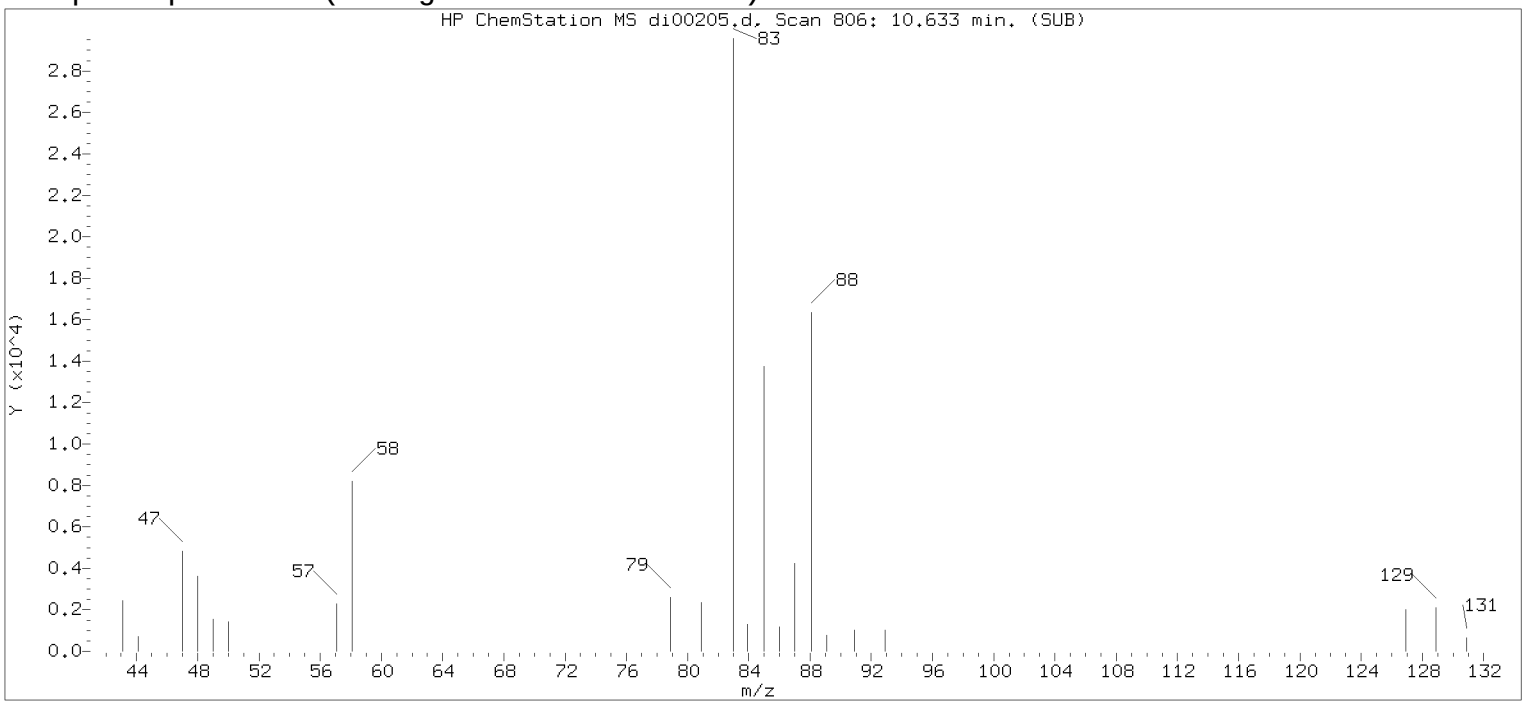
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 806
Retention Time (minutes): 10.633
Quant Ion : 88.00
Area (flag) : 438914M
Concentration (ppb(v)) : 9.5970
Integration start scan : 788 Integration stop scan: 886
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

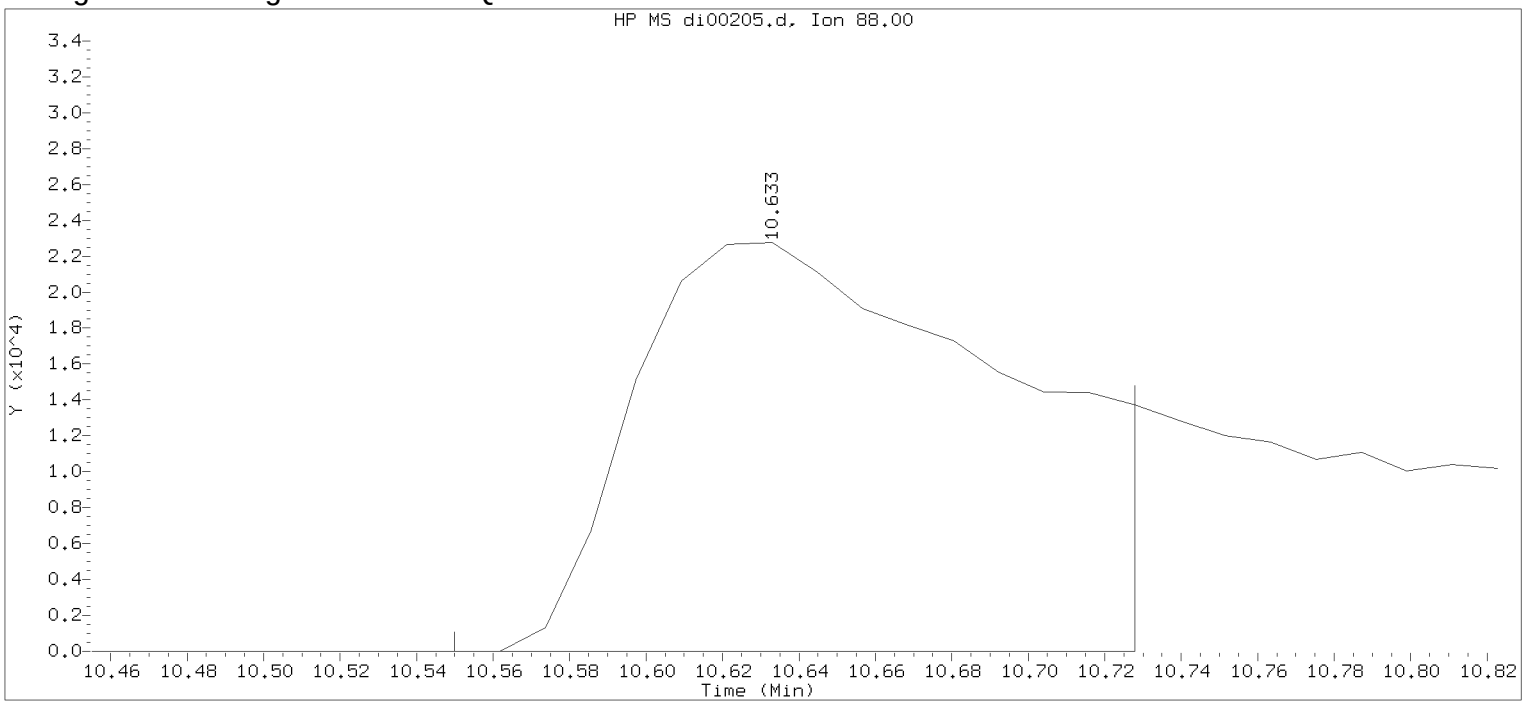
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:46.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

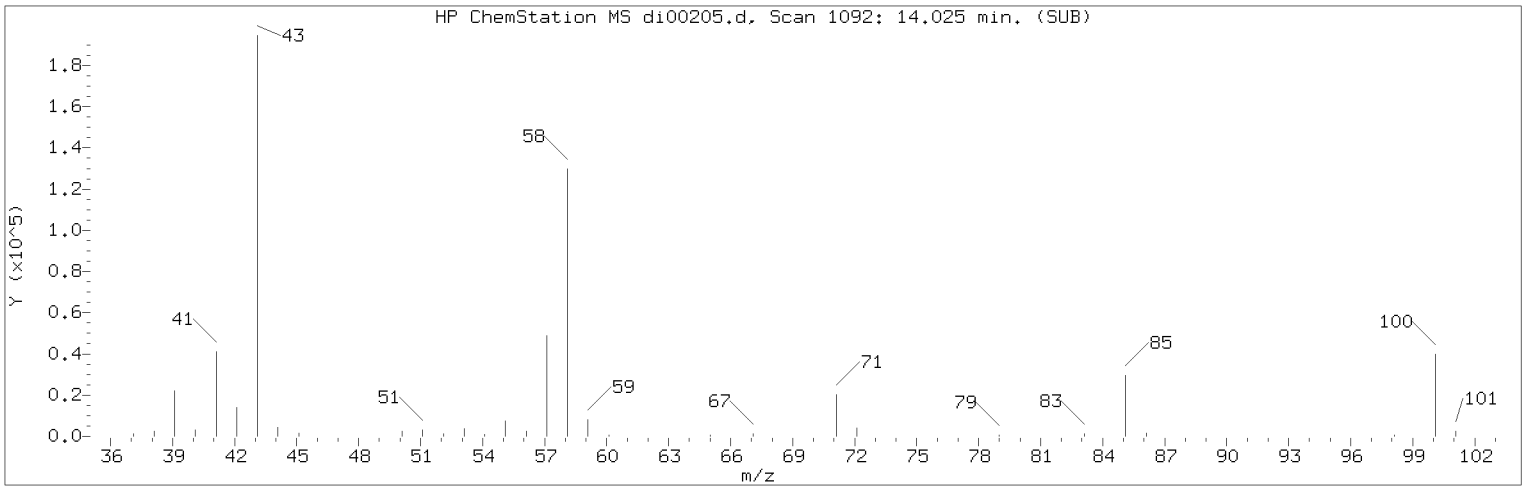
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 04:05 Automation

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

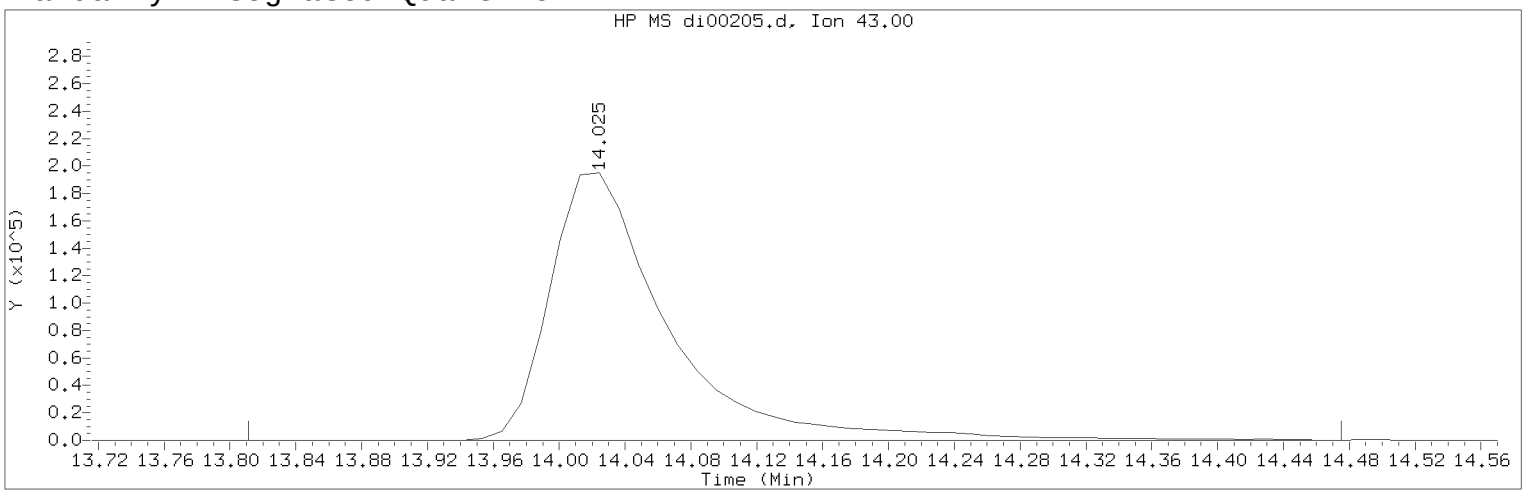
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 806
Retention Time (minutes): 10.633
Quant Ion : 88.00
Area : 153789
Concentration (ppb(v)) : 5.5618
Integration start scan : 798 Integration stop scan: 813
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature use SSXD3 Page 1124 of 1243

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:37
Date, time and analyst ID of latest file update: 14-Sep-2015 13:43 jbs01304

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

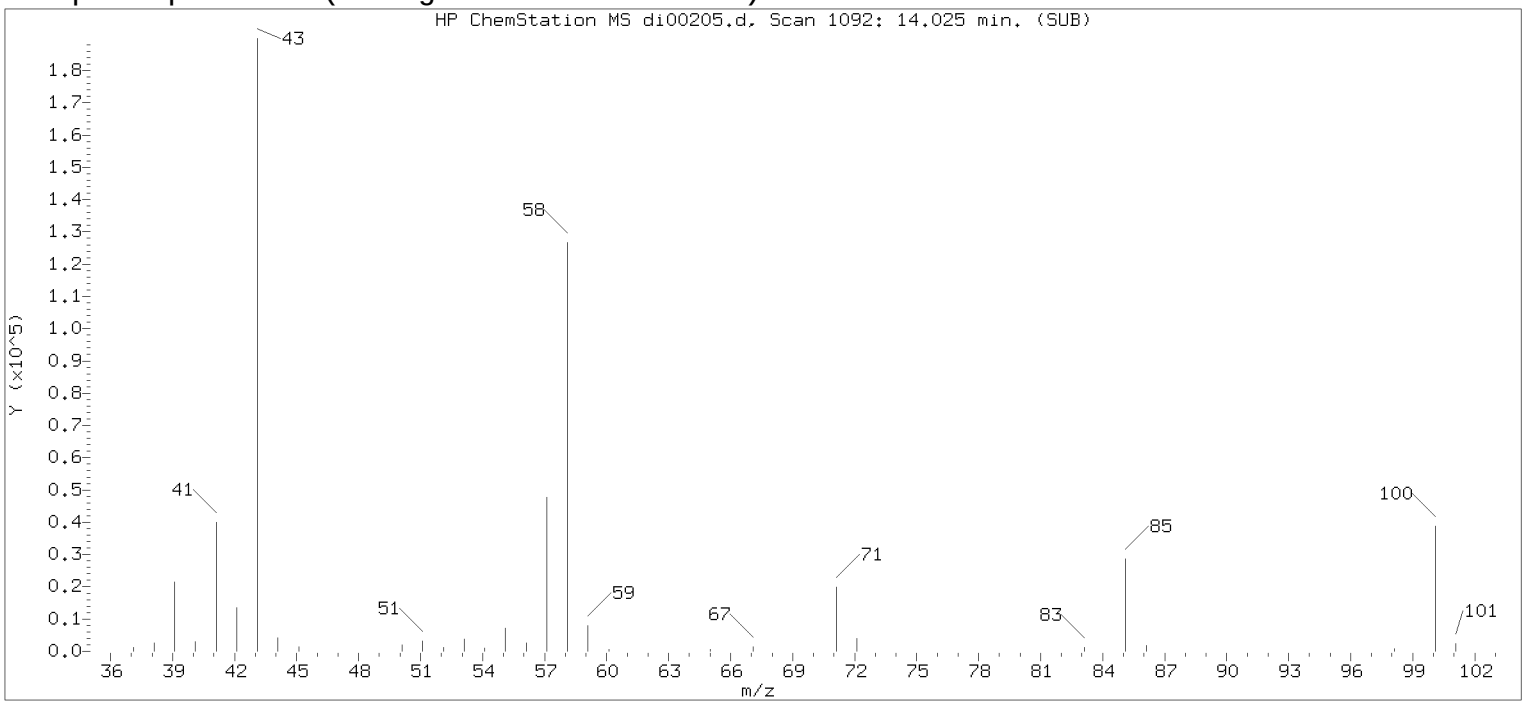
Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.025
Quant Ion : 43.00
Area (flag) : 974723M
Concentration (ppb(v)) : 9.8815
Integration start scan : 1073 Integration stop scan: 1129
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

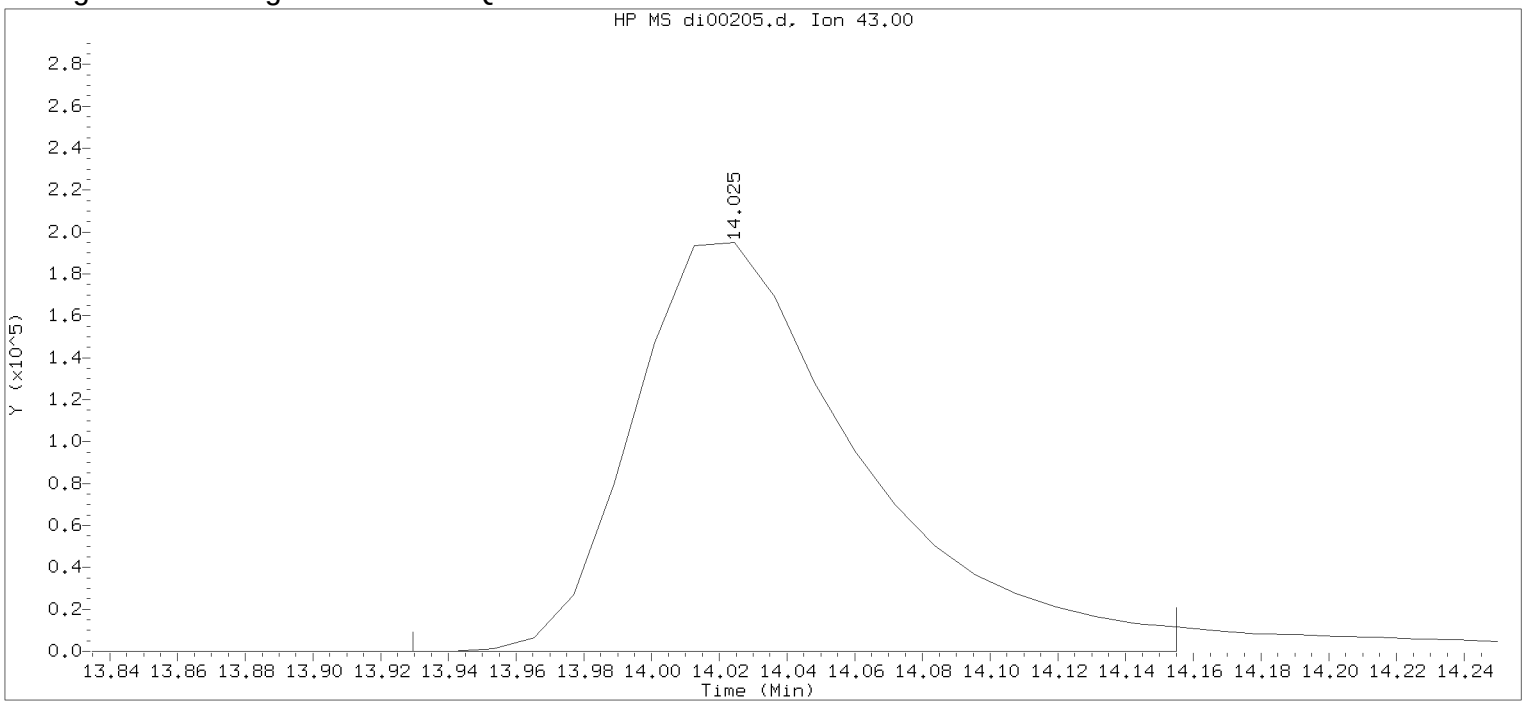
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 13:44.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/15/2015 at 13:46.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



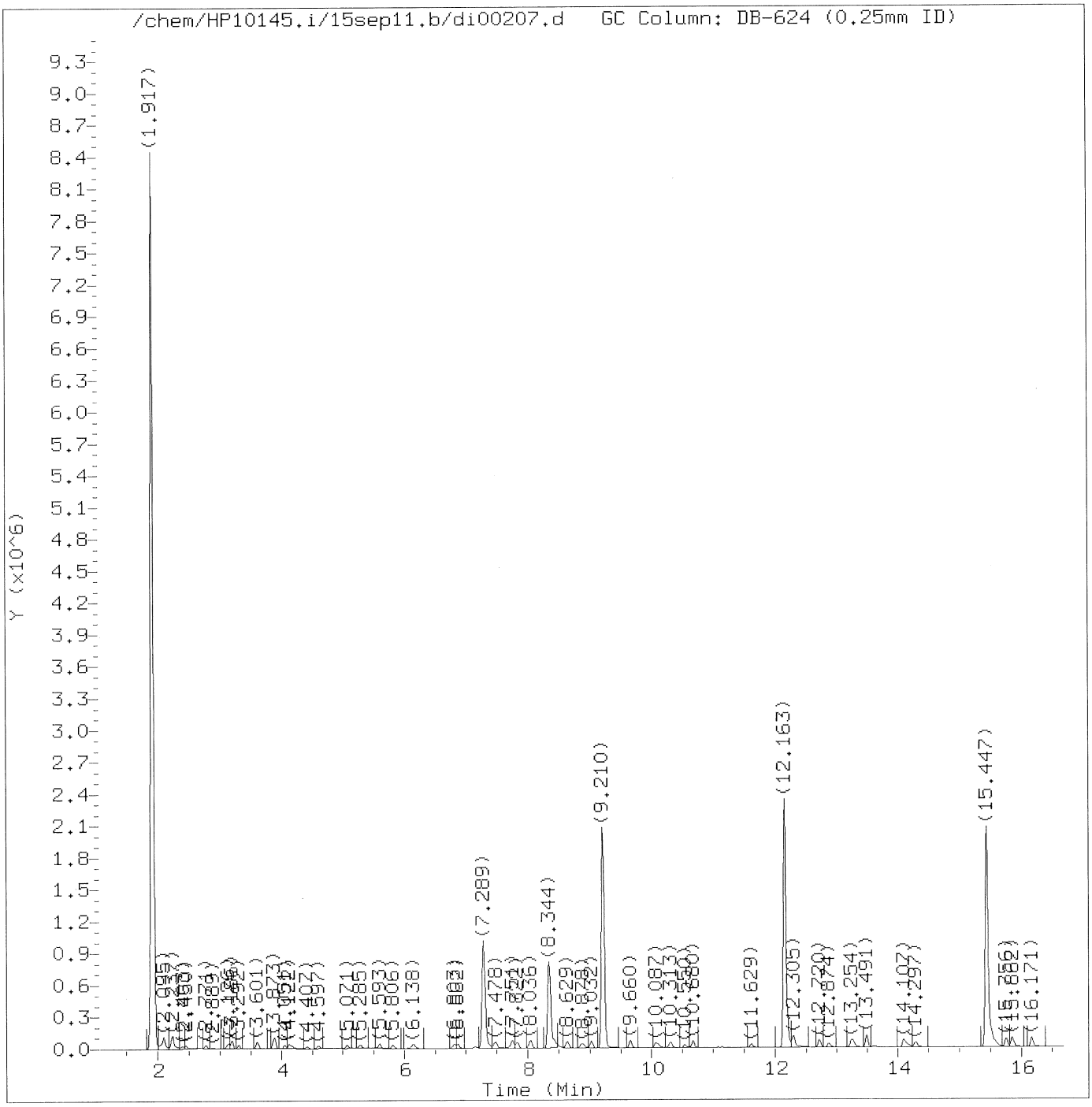
Data File: /chem/HP10145.i/15sep11.b/di00205.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 03:25 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 04:05 Automation

Sample Name: LCSDD62 Lab Sample ID: LCSDD62

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1092
Retention Time (minutes): 14.025
Quant Ion : 43.00
Area : 913476
Concentration (ppb(v)) : 11.2959
Integration start scan : 1083 Integration stop scan: 1102
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 13:44.
Target 3.5 esignature used. SSXD3 Page 1134 of 1243



Total Ion Chromatogram (TIC)

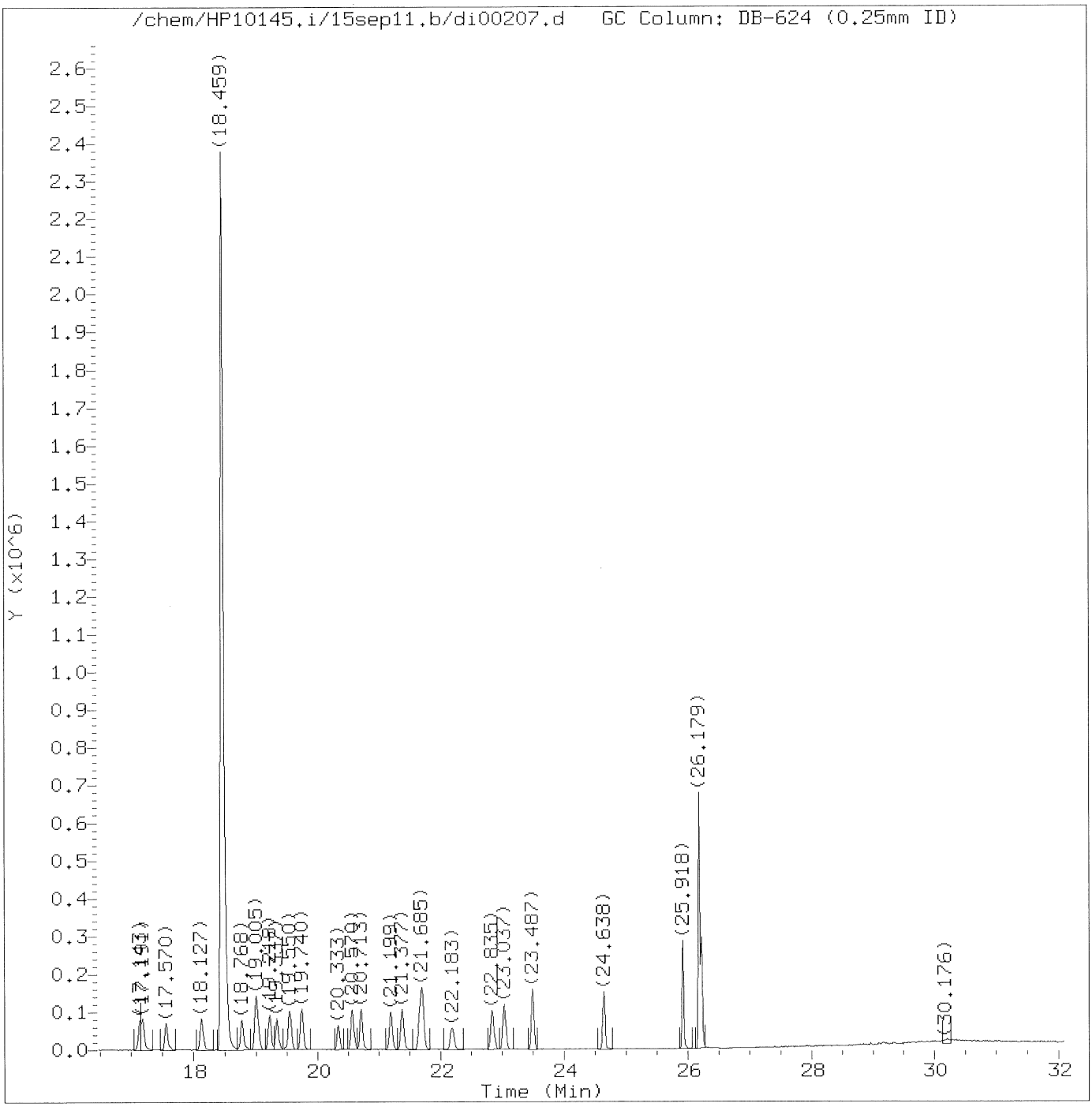
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.059	41	13382	0.445
2) Dichlorodifluoromethane	(1)	2.095	85	103474	0.460
3) Chlorodifluoromethane	(1)	2.107	51	32117	0.430
4) Freon 114	(1)	2.225	85	81090	0.439
5) Chloromethane	(1)	2.284	52	5455	0.380
6) Vinyl Chloride	(1)	2.403	62	23487	0.414
7) 1,3-Butadiene	(1)	2.450	54	12452	0.358
8) Bromomethane	(1)	2.771	94	27672	0.410
9) Chloroethane	(1)	2.889	64	12169	0.389
10) Bromoethene	(1)	3.115	106	25953	0.433
11) Dichlorofluoromethane	(1)	3.138	67	61376	0.448
12) Trichlorofluoromethane	(1)	3.186	101	97467	0.446
13) Pentane	(1)	3.304	43	28746	0.443
15) Freon123a	(1)	3.601	67	53874	0.467
17) 1,1-Dichloroethene	(1)	3.850	61	38191	0.425
18) Freon 113	(1)	3.885	103	39743	0.428
14) Ethanol	(1)	3.885	45	7063M	0.397
16) Acrolein	(1)	3.897	56	4622M	0.320
20) Methyl Iodide	(1)	4.051	142	56741	0.434
21) Carbon Disulfide	(1)	4.122	76	110181	0.595
19) Acetone	(1)	4.182	43	38004M	0.595
24) 3-Chloropropene	(1)	4.407	76	12179	0.455
23) Acetonitrile	(1)	4.407	40	1997M	0.126
25) Methylene Chloride	(1)	4.597	84	23905	0.495
22) Isopropanol	(1)	4.739	45	42477M	0.554
28) trans-1,2-Dichloroethene	(1)	5.071	61	33178	0.482
27) Acrylonitrile	(1)	5.202	53	14812M	0.524
29) Methyl t-Butyl Ether	(1)	5.273	73	74403M	0.456
26) tert-Butyl Alcohol	(1)	5.474	59	53698M	0.483
30) Hexane	(1)	5.593	57	33292	0.442
31) 1,1-Dichloroethane	(1)	5.806	63	48534	0.460
32) Vinyl Acetate	(1)	6.091	86	2564M	0.190
33) Di-Isopropyl Ether	(1)	6.138	45	51327M	0.384
36) 1,2-Dichloroethene (total)	(1)		61	66033	0.919
34) Ethyl Tert-Butyl Ether	(1)	6.814	59	60895	0.339
35) cis-1,2-Dichloroethene	(1)	6.874	61	32855	0.437
37) 2-Butanone	(1)	7.158	72	12716M	0.442
38) Ethyl Acetate	(1)	7.265	70	8278M	0.471

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.265	55	29201	0.388
40)*Bromochloromethane	(1)	7.289	130	700396	10.000
42) Chloroform	(1)	7.478	83	68136	0.455
41) Tetrahydrofuran	(1)	7.692	42	14288M	0.349
43) 1,1,1-Trichloroethane	(1)	7.739	97	76657	0.434
44) Cyclohexane	(1)	7.822	56	31380	0.398
45) Carbon Tetrachloride	(1)	8.036	117	82461	0.451
46) Benzene	(2)	8.427	78	93479	0.466
47) 1,2-Dichloroethane	(2)	8.475	62	43431	0.456
48) Isooctane	(2)	8.629	57	97714	0.389
49) Tert-Amyl Methyl Ether	(2)	8.878	73	71817M	0.356
50) Heptane	(2)	9.032	43	31144	0.422
51)*1,4-Difluorobenzene	(2)	9.210	114	2829233	10.000
52) Trichloroethene	(2)	9.660	130	40623	0.456
54) 1,2-Dichloropropane	(2)	10.075	63	28093	0.450
53) Ethyl Acrylate	(2)	10.123	55	34138	0.348
55) Dibromomethane	(2)	10.313	174	41227	0.454
57) Methyl Methacrylate	(2)	10.550	69	24187	0.373
58) Bromodichloromethane	(2)	10.680	83	74791	0.445
56) 1,4-Dioxane	(2)	11.083	88	18095M	0.398
59) cis-1,3-Dichloropropene	(2)	11.629	75	39330	0.381
60) 4-Methyl-2-Pentanone	(2)	12.198	43	59619M	0.563
61) Toluene	(3)	12.305	91	123991	0.518
62) Octane	(3)	12.720	43	35280	0.372
63) trans-1,3-Dichloropropene	(3)	12.874	75	47768	0.459
64) 1,3-Dichloropropene (total)	(3)		75	87098	0.839
66) 1,1,2-Trichloroethane	(3)	13.254	97	40681	0.496
65) Ethyl Methacrylate	(3)	13.289	69	37102	0.340
67) Tetrachloroethene	(3)	13.491	166	67267	0.450
69) Dibromochloromethane	(3)	14.096	127	53921	0.431
68) 2-Hexanone	(3)	14.143	43	57938M	0.617
70) 1,2-Dibromoethane	(3)	14.297	107	66775	0.515
71)*Chlorobenzene-d5	(3)	15.447	117	2411975	10.000
72) Chlorobenzene	(3)	15.507	112	101301	0.530
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	47446	0.434
74) Ethylbenzene	(3)	15.851	91	145006	0.452
75) m/p-Xylene	(3)	16.171	91	122296	0.437
76) o-Xylene	(3)	17.131	91	111405	0.420

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

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

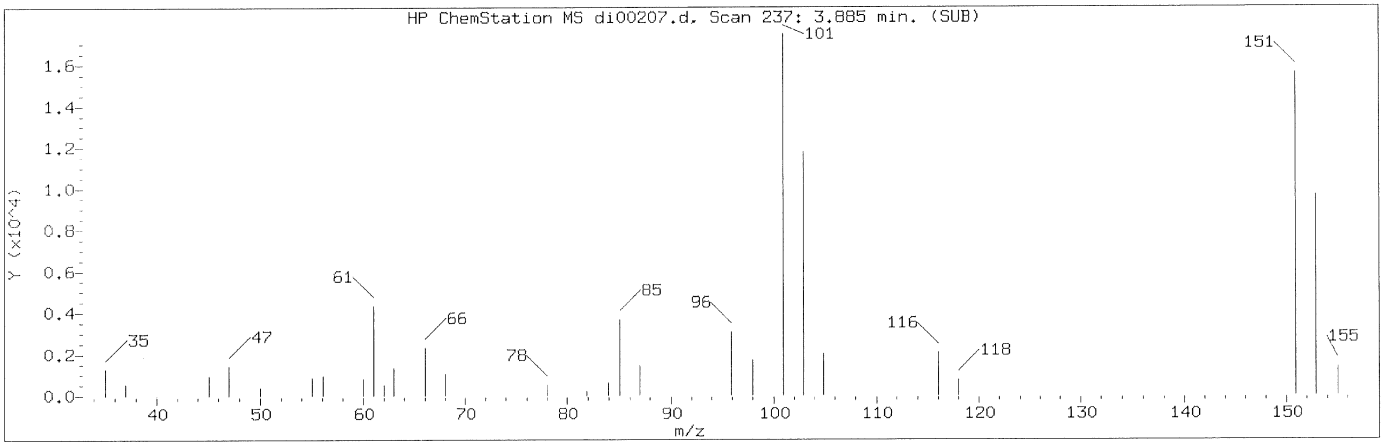
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

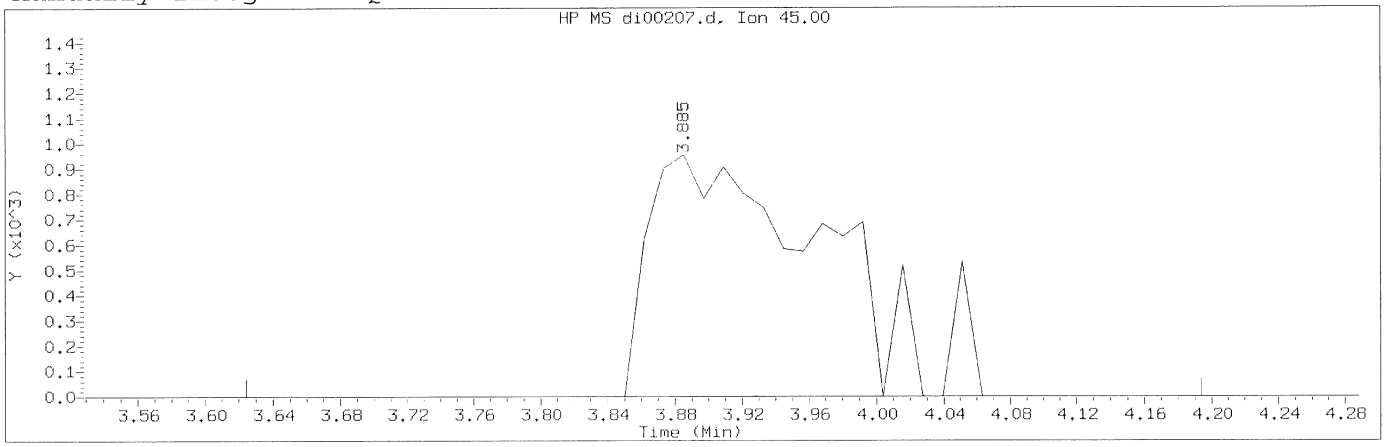
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.191	104	86382	0.438
77) Xylene (total)	(3)		91	233701	0.857
79) Bromoform	(3)	17.570	173	78410	0.471
80) Cumene	(3)	18.139	105	130864	0.347
81) Bromobenzene	(3)	18.768	156	53128	0.468
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	104142	0.556
83) 1,2,3-Trichloropropane	(3)	19.017	110	28341	0.460
84) n-Propylbenzene	(3)	19.218	120	35627	0.351
85) 2-Chlorotoluene	(3)	19.337	126	33645	0.405
86) 4-Ethyltoluene	(3)	19.550	105	159025	0.419
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	144906	0.427
88) Alpha Methyl Styrene	(3)	20.333	118	48228	0.342
89) tert-Butylbenzene	(3)	20.570	119	122100	0.371
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	148522	0.442
91) sec-Butylbenzene	(3)	21.187	105	172230	0.369
92) 1,3-Dichlorobenzene	(3)	21.377	146	121017	0.613
93) 1,4-Dichlorobenzene	(3)	21.673	146	120743	0.611
94) p-Isopropyltoluene	(3)	21.697	119	152763	0.388
95) Benzyl Chloride	(3)	22.183	91	130305	0.508
96) 1,2-Dichlorobenzene	(3)	22.835	146	112457	0.598
97) n-Butylbenzene	(3)	23.037	91	152288	0.441
98) Hexachloroethane	(3)	23.487	117	55269	0.489
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	66498	0.596
100) 1,2,4-Trichlorobenzene	(3)	25.918	180	126944	0.887
101) Hexachlorobutadiene	(3)	26.179	225	171274	0.797
102) Naphthalene	(3)	26.215	128	275183	1.110

Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number : 14
Compound Name : Ethanol
Scan Number : 237
Retention Time (minutes): 3.885
Quant Ion : 45.00
Area (flag) : 7063M
Concentration (ppb(v)) : 0.3966
Integration start scan : 214 Integration stop scan: 262
Y at integration start : 0 Y at integration end: 0

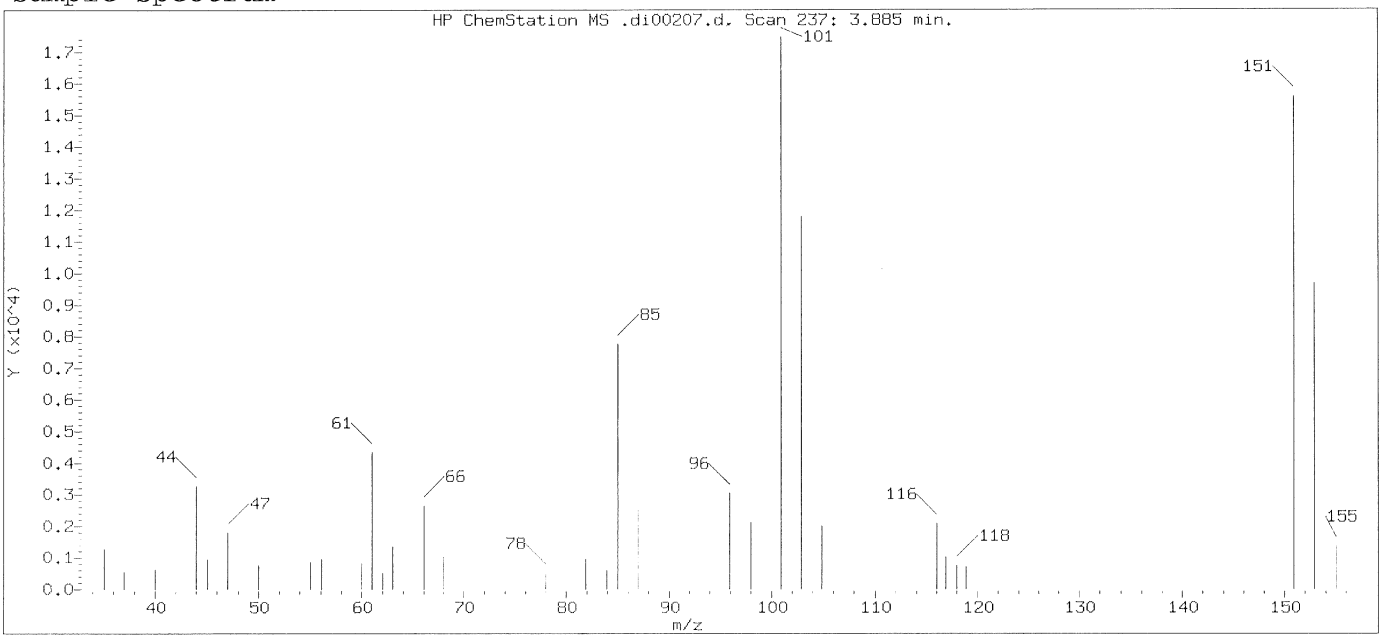
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

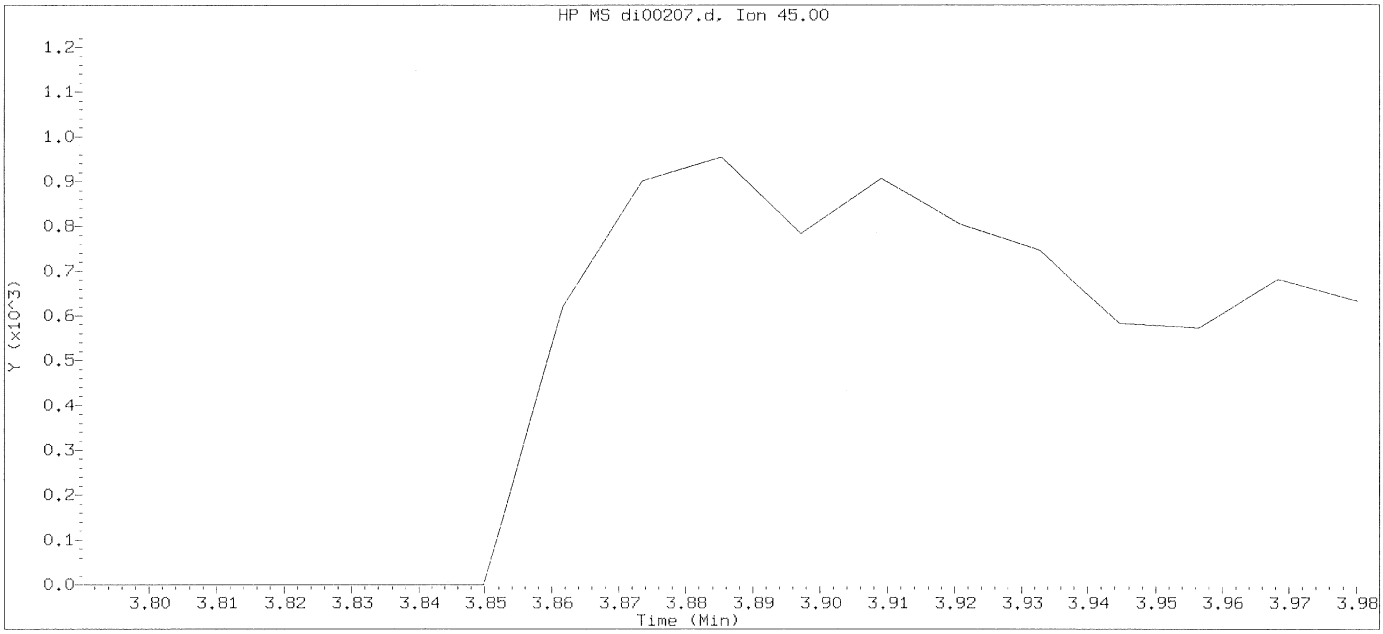
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

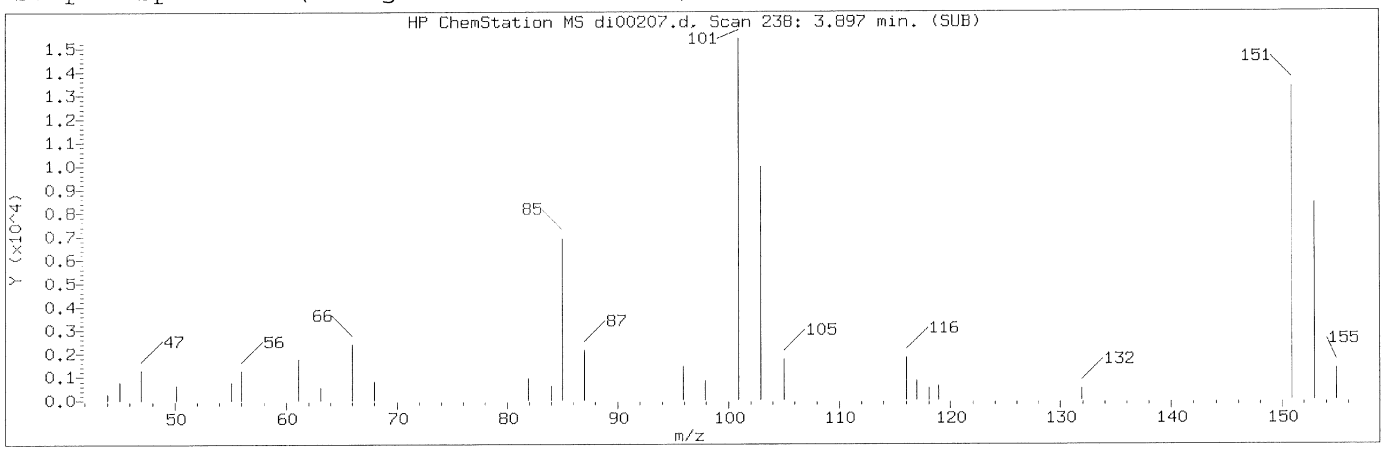
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

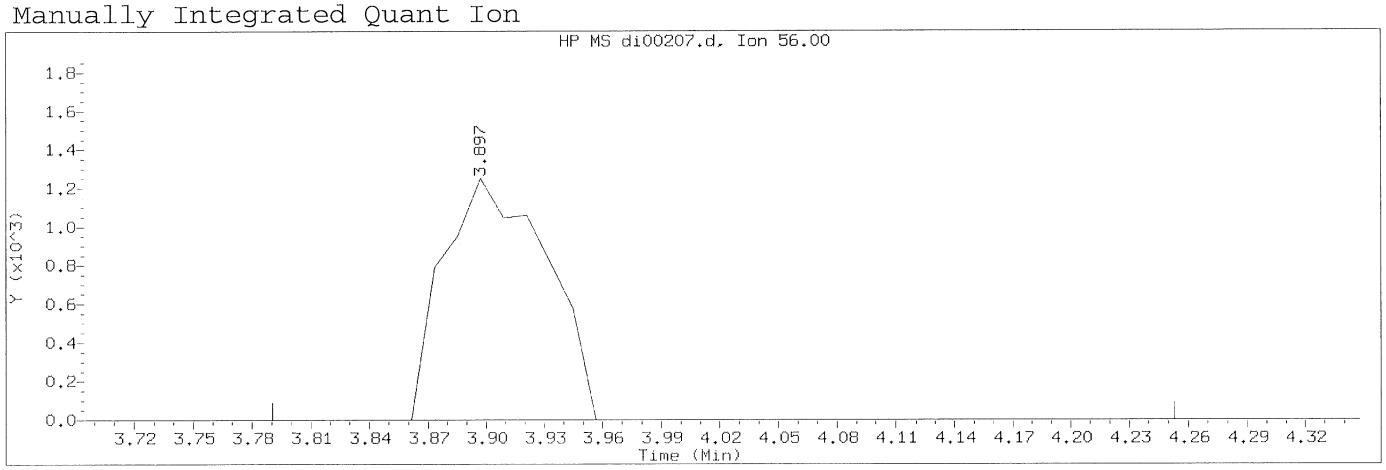
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.885
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number : 16
Compound Name : Acrolein
Scan Number : 238
Retention Time (minutes): 3.897
Quant Ion : 56.00
Area (flag) : 4622M
Concentration (ppb(v)) : 0.3201
Integration start scan : 228 Integration stop scan: 267
Y at integration start : 0 Y at integration end: 0

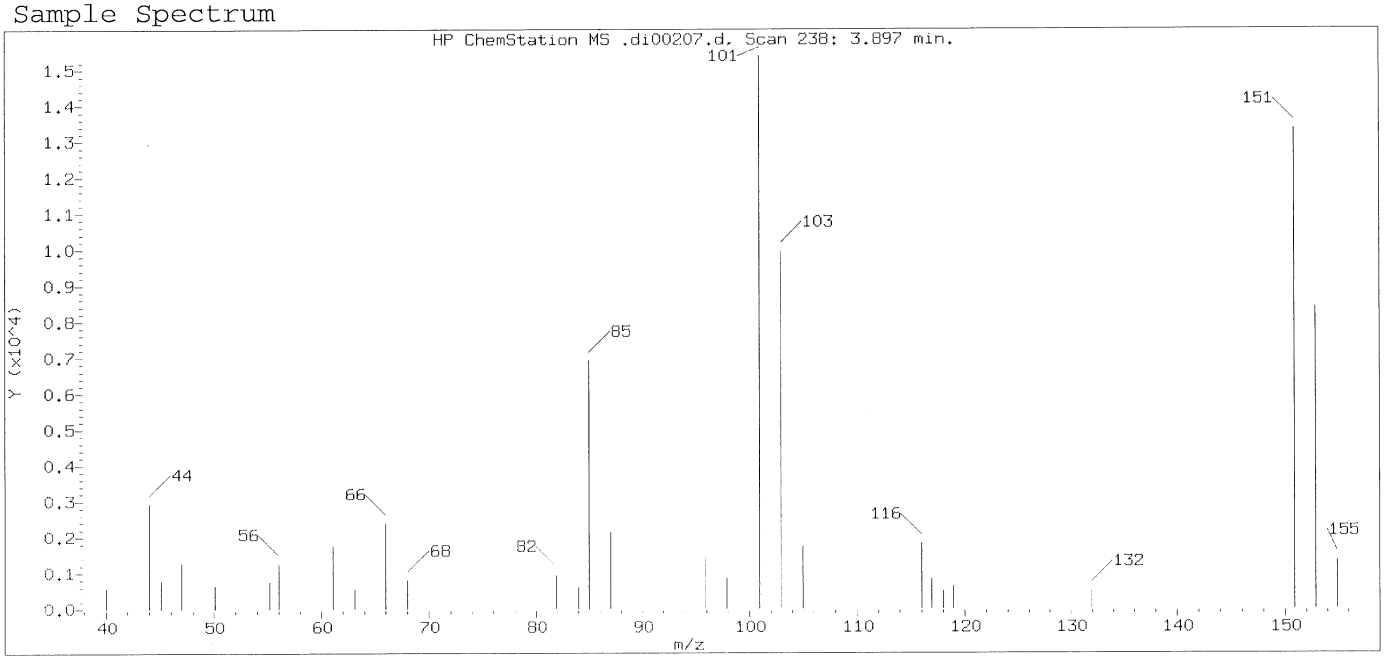
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

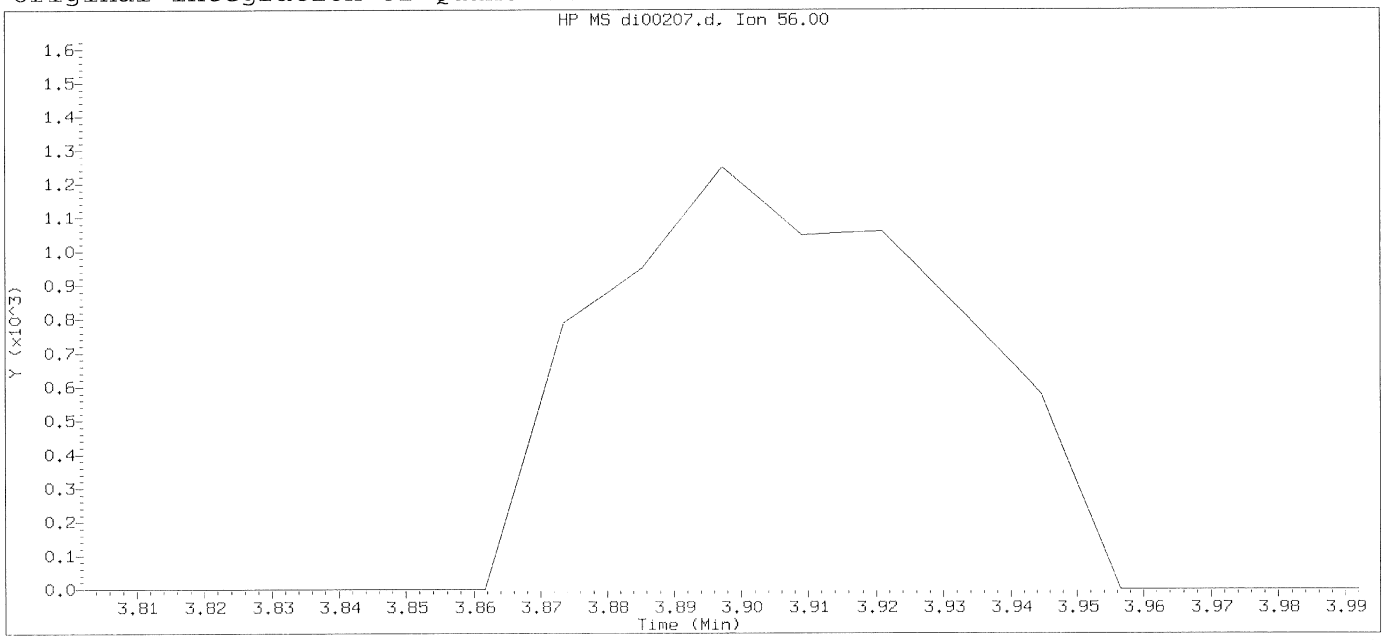
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

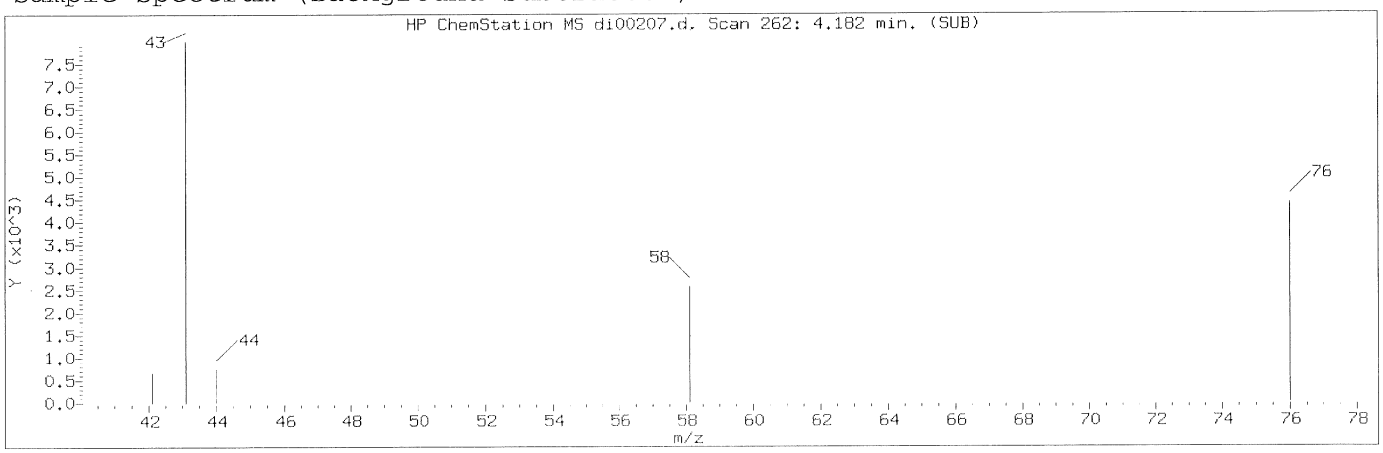
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

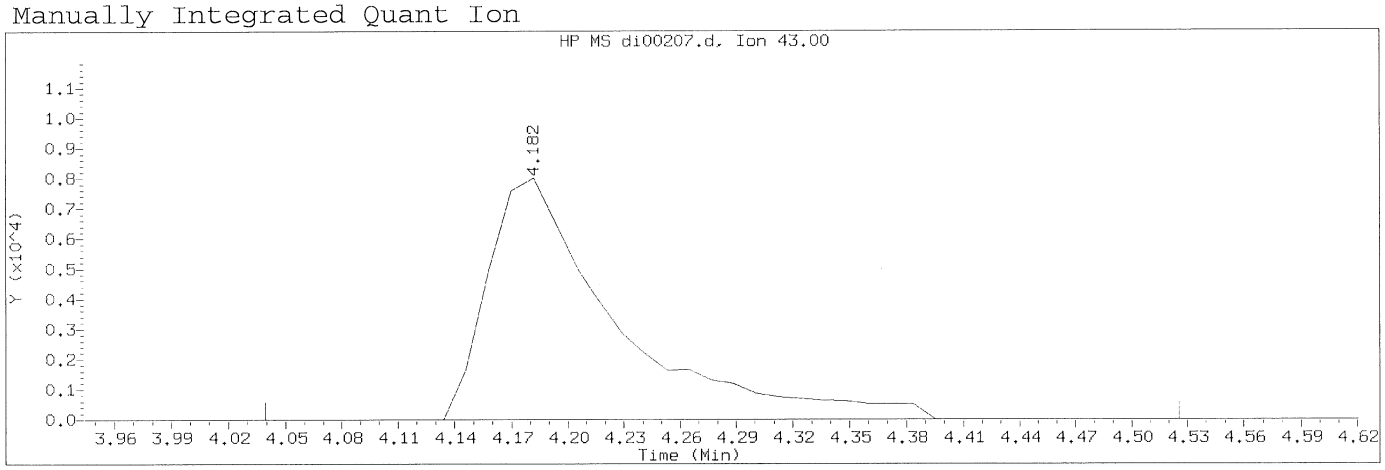
Compound Number : 16
Compound Name : Acrolein
Expected RT (minutes) : 3.897
Quant Ion : 56.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 19		
Compound Name	: Acetone		
Scan Number	: 262		
Retention Time (minutes)	: 4.182		
Quant Ion	: 43.00		
Area (flag)	: 38004M		
Concentration (ppb(v))	: 0.5952		
Integration start scan	: 249	Integration stop scan:	290
Y at integration start	: 0	Y at integration end:	0

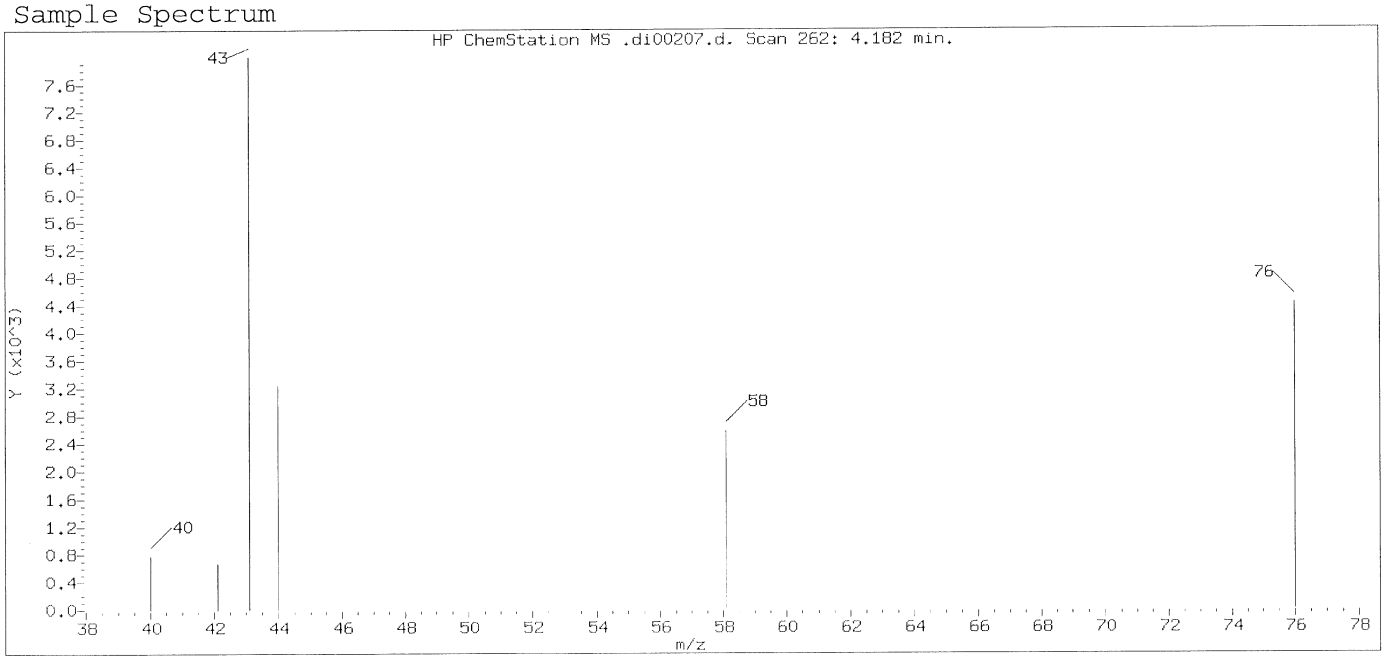
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

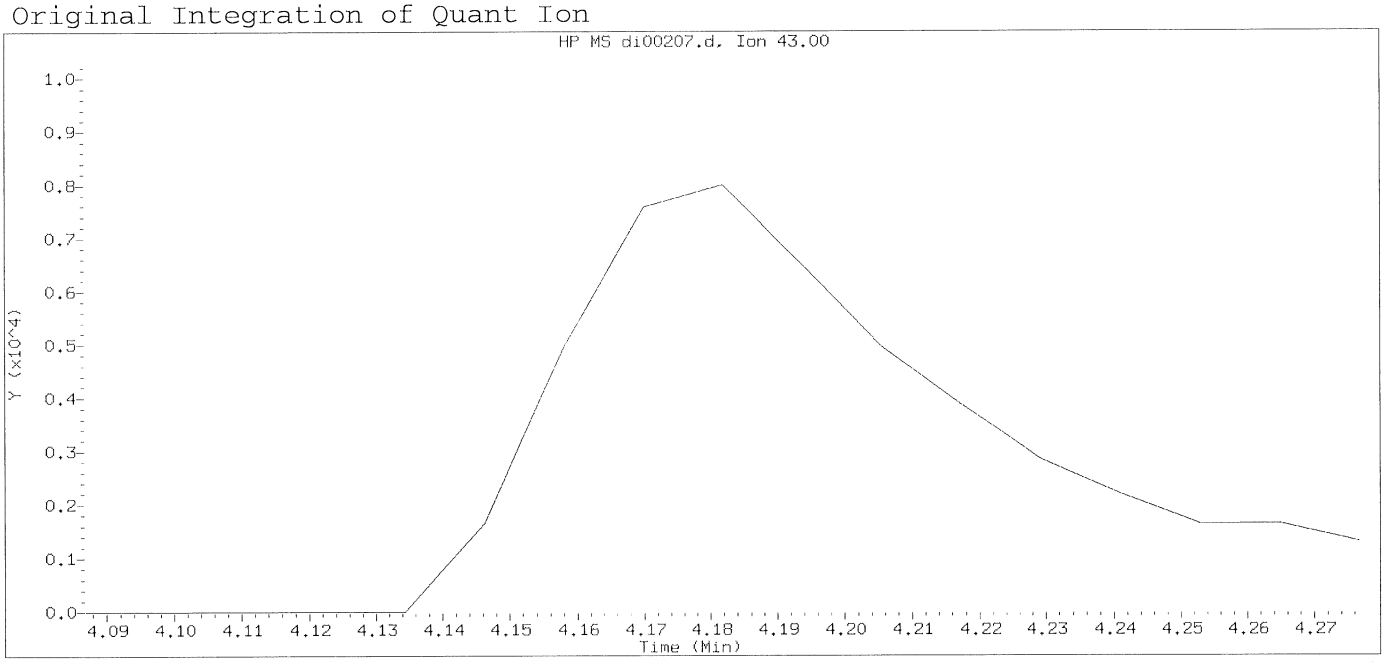
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

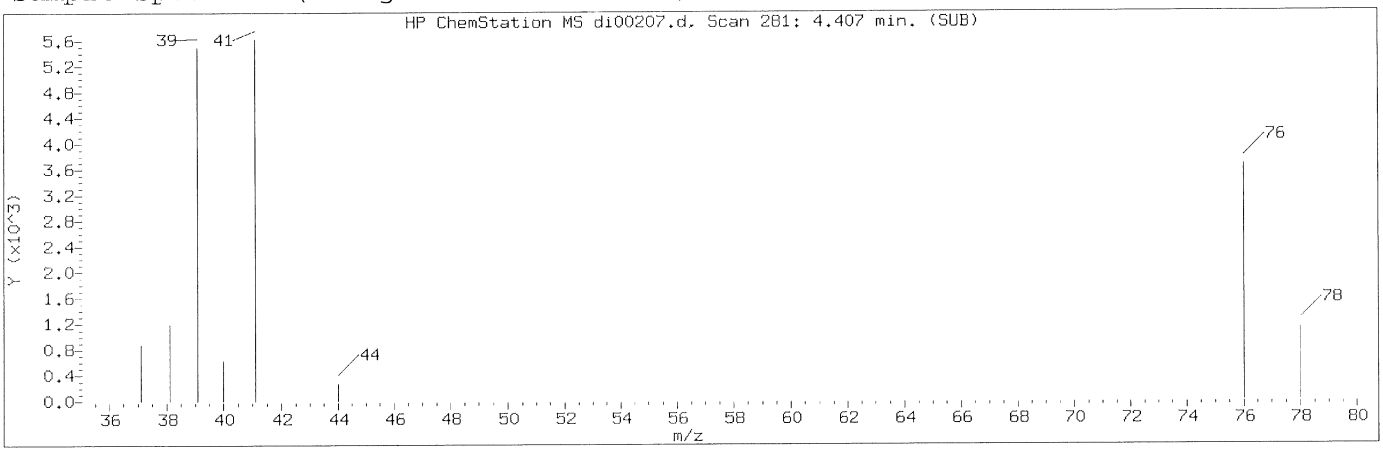
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

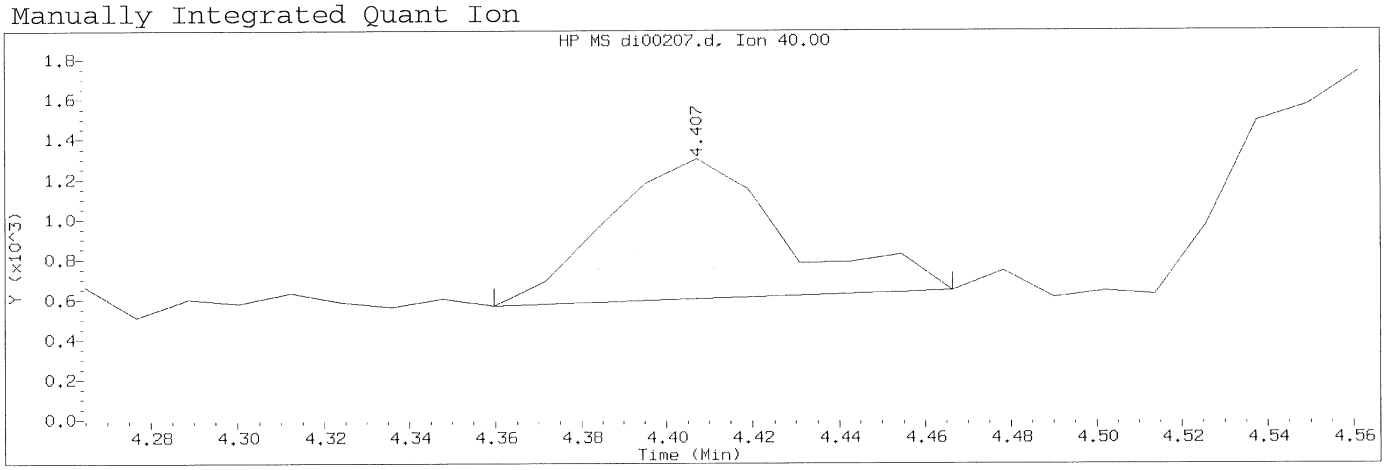
Compound Number : 19
Compound Name : Acetone
Expected RT (minutes) : 4.182
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 281		
Retention Time (minutes)	: 4.407		
Quant Ion	: 40.00		
Area (flag)	: 1997M		
Concentration (ppb(v))	: 0.1262		
Integration start scan	: 276	Integration stop scan:	285
Y at integration start	: 568	Y at integration end:	643

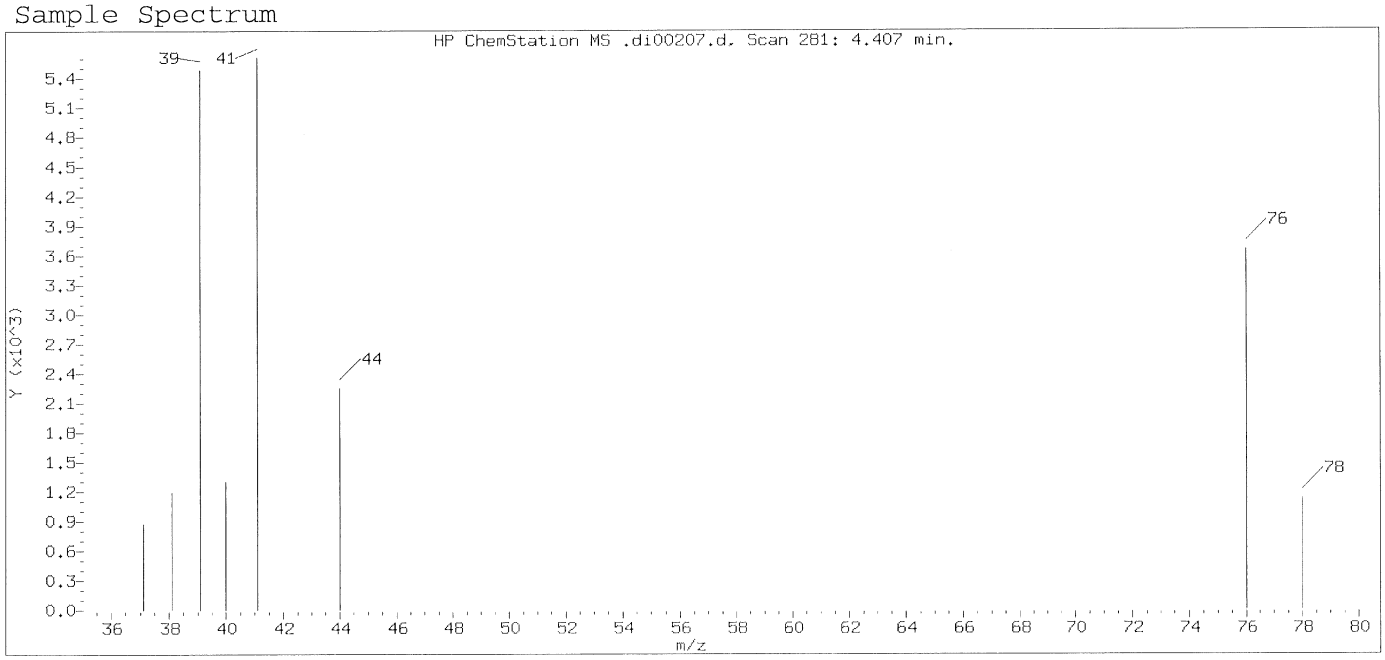
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

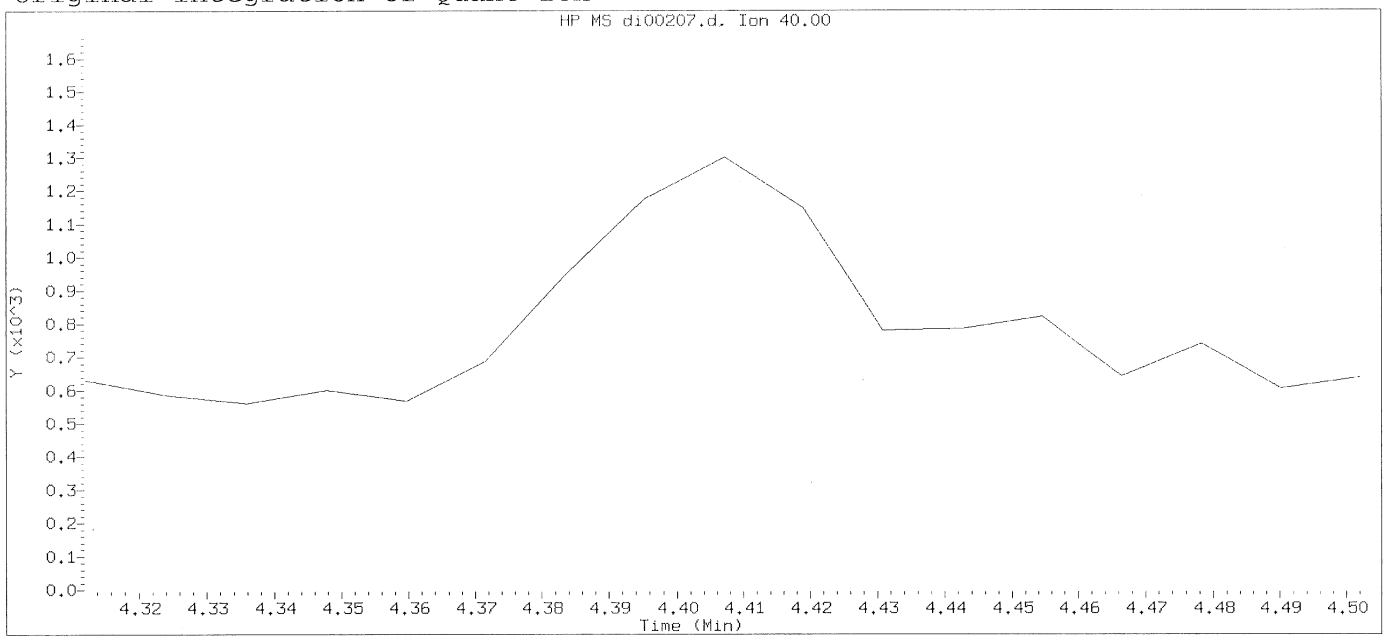
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____ SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

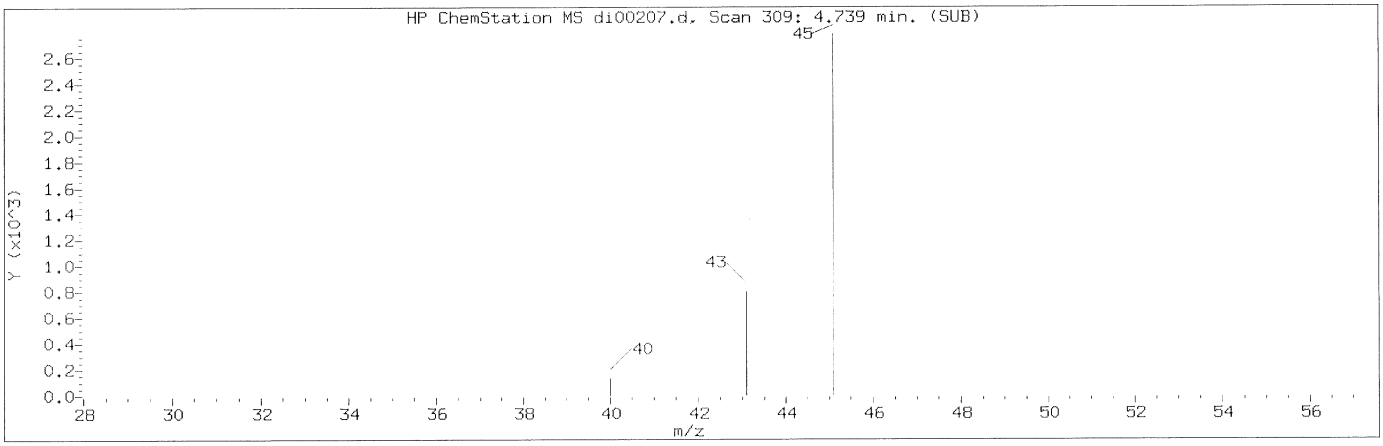
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

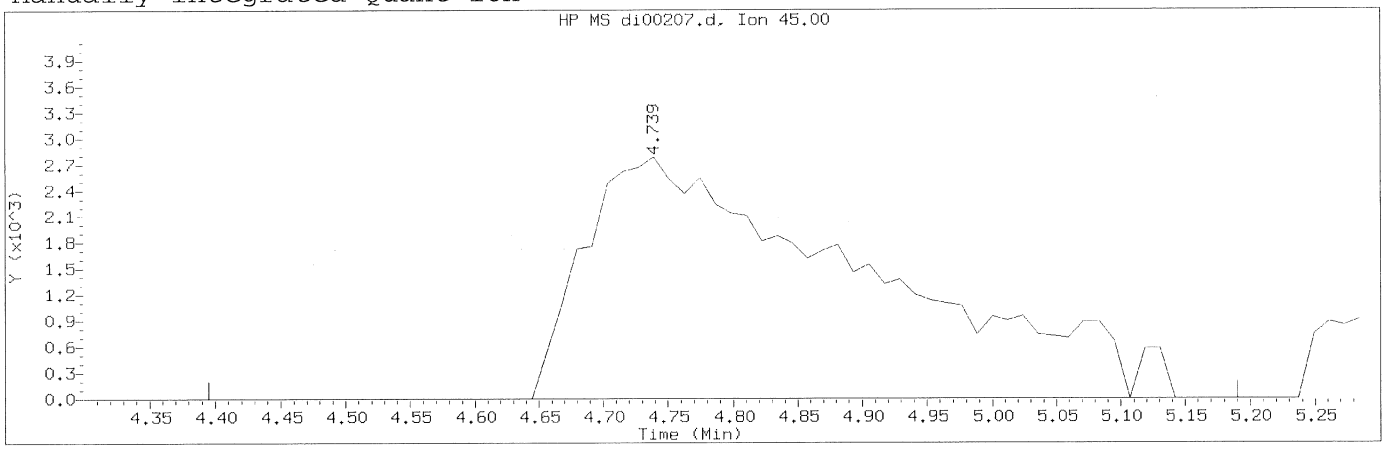
Compound Number : 23
Compound Name : Acetonitrile
Expected RT (minutes) : 4.407
Quant Ion : 40.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

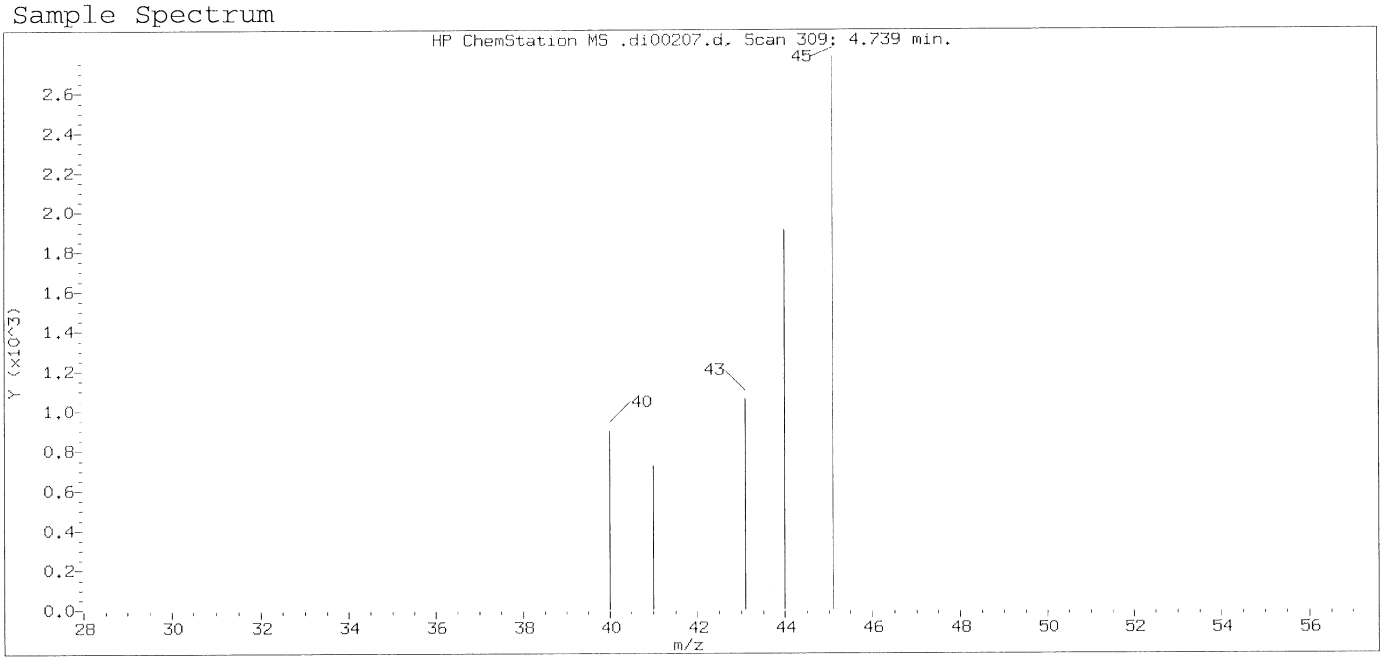
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 309		
Retention Time (minutes)	: 4.739		
Quant Ion	: 45.00		
Area (flag)	: 42477M		
Concentration (ppb(v))	: 0.5540		
Integration start scan	: 279	Integration stop scan:	346
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

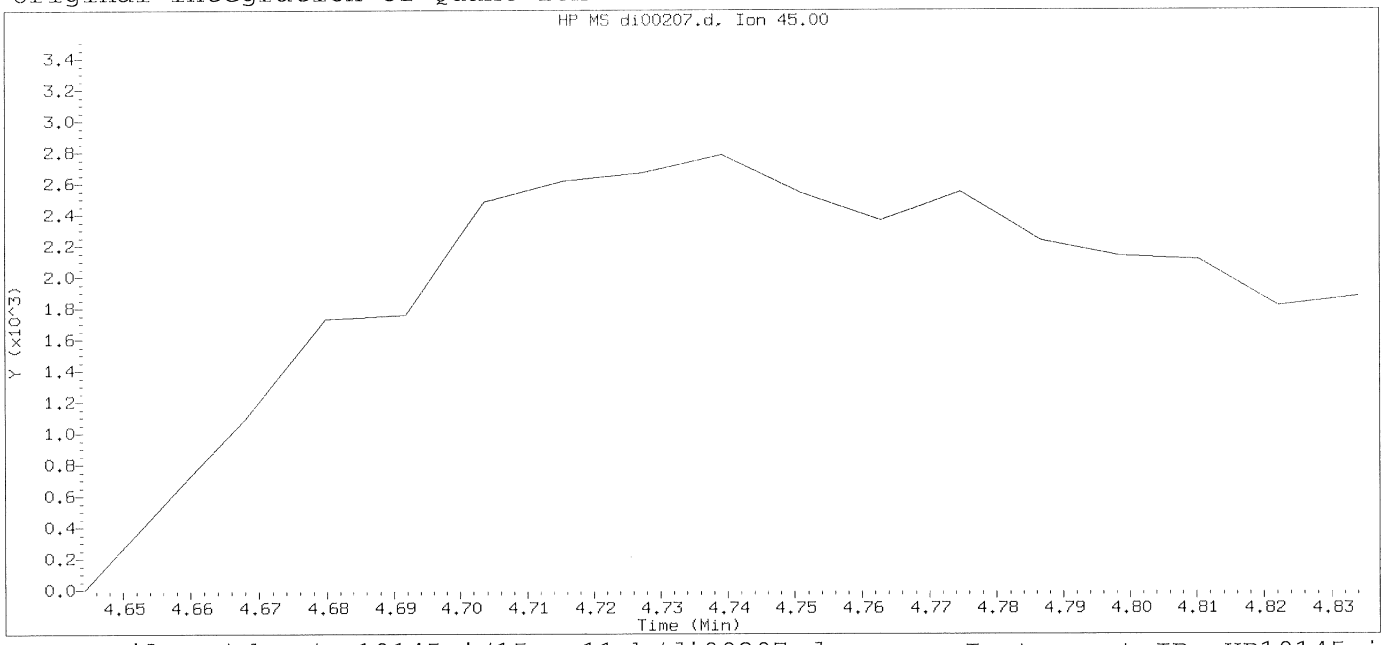
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

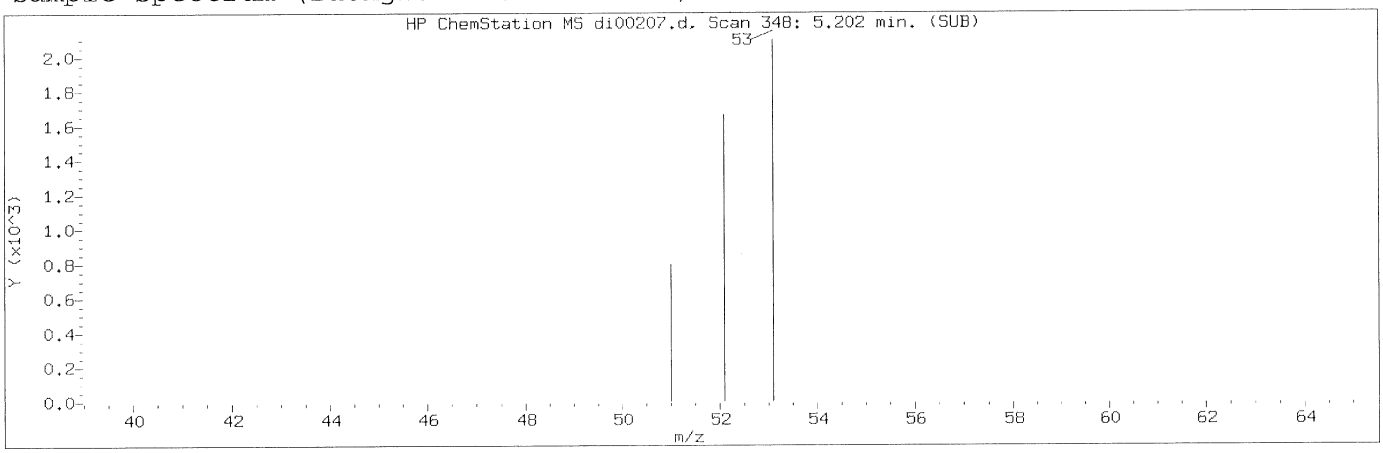
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

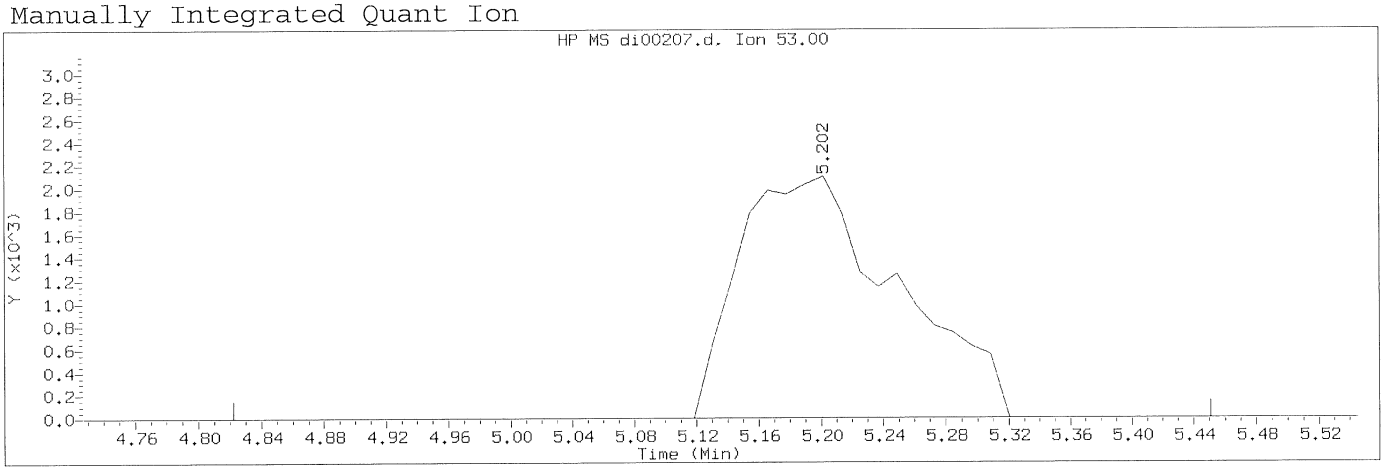
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.739
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 348		
Retention Time (minutes)	: 5.202		
Quant Ion	: 53.00		
Area (flag)	: 14812M		
Concentration (ppb(v))	: 0.5241		
Integration start scan	: 315	Integration stop scan:	368
Y at integration start	: 0	Y at integration end:	0

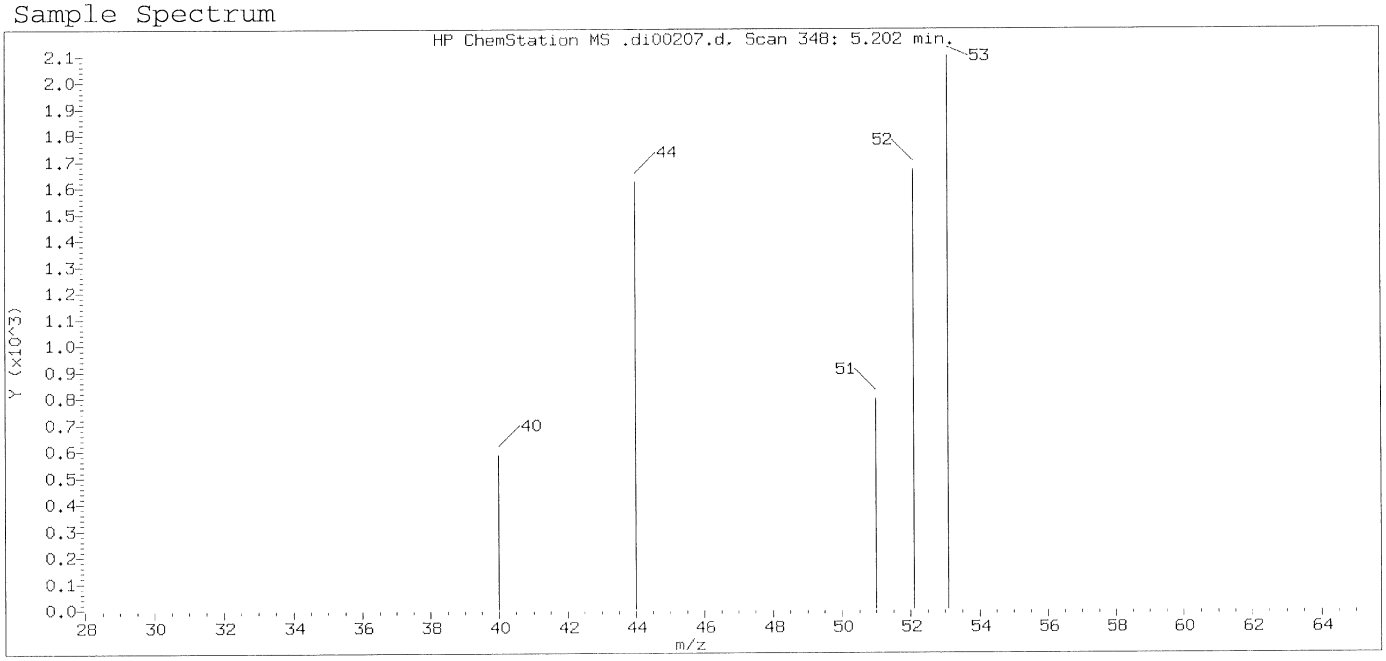
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03 Target 3.5 esignature user ID: jbs01304

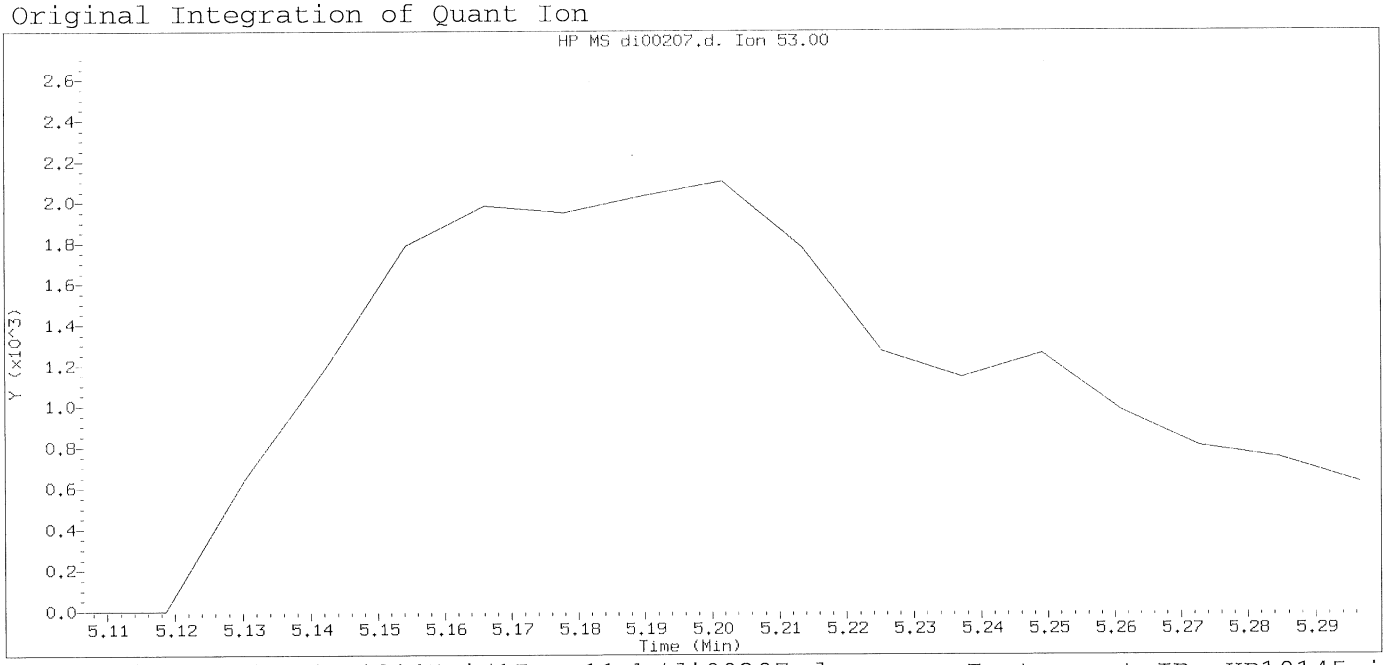
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

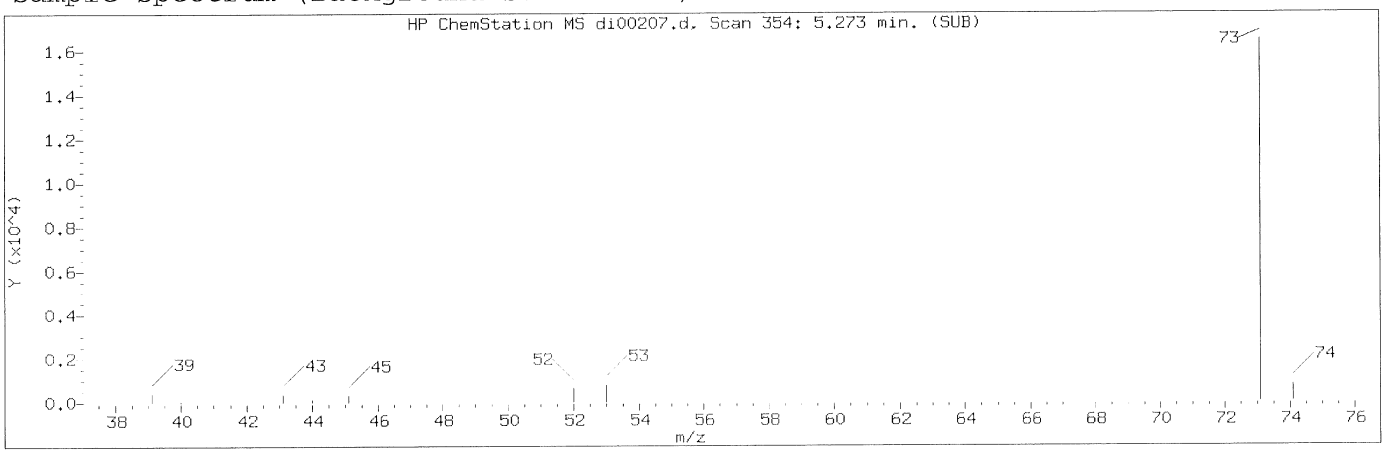
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

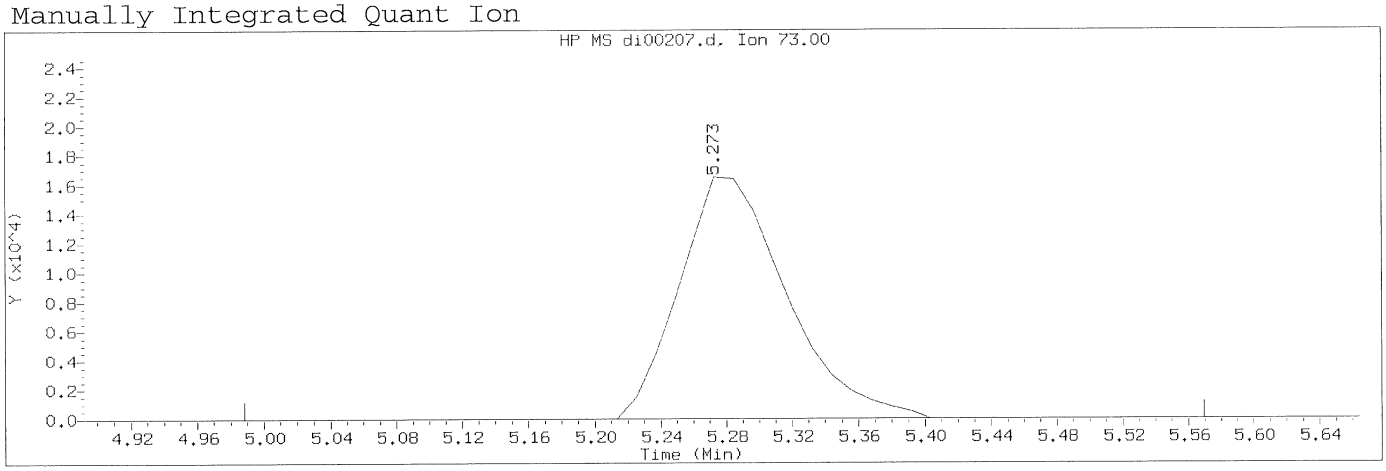
Compound Number : 27
Compound Name : Acrylonitrile
Expected RT (minutes) : 5.202
Quant Ion : 53.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Scan Number : 354
Retention Time (minutes): 5.273
Quant Ion : 73.00
Area (flag) : 74403M
Concentration (ppb(v)) : 0.4558
Integration start scan : 329 Integration stop scan: 378
Y at integration start : 0 Y at integration end: 0

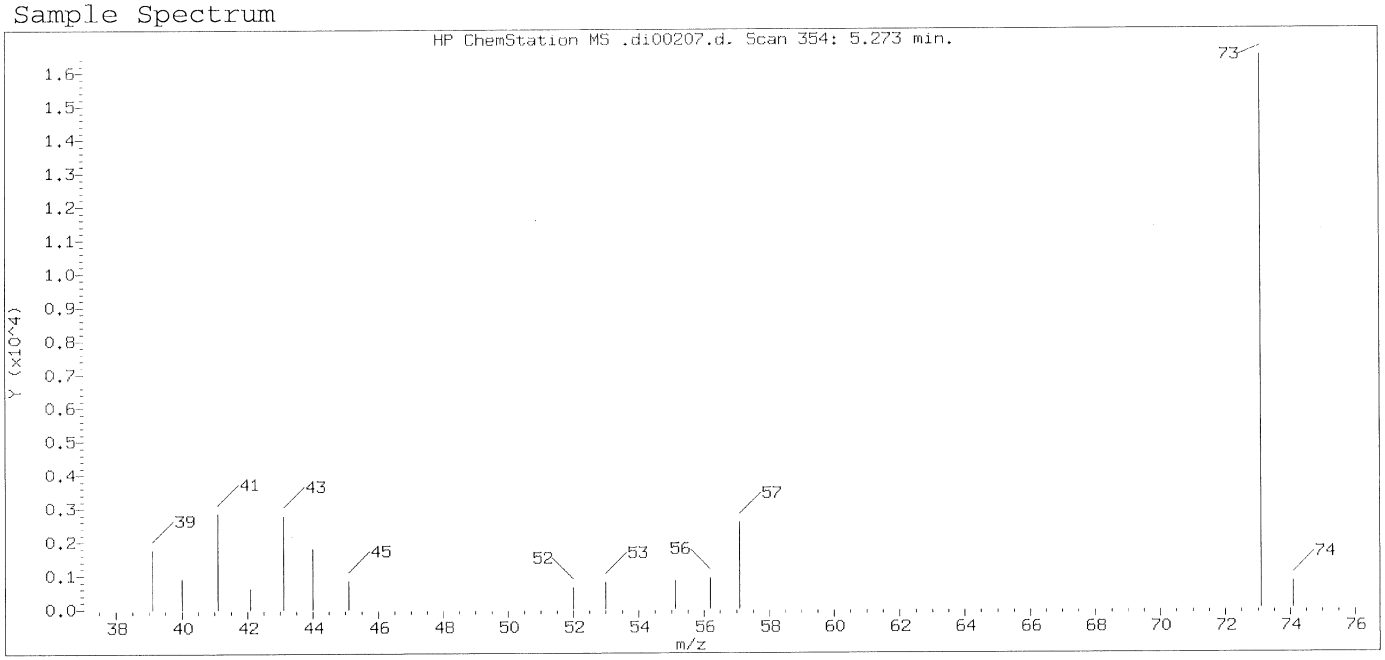
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

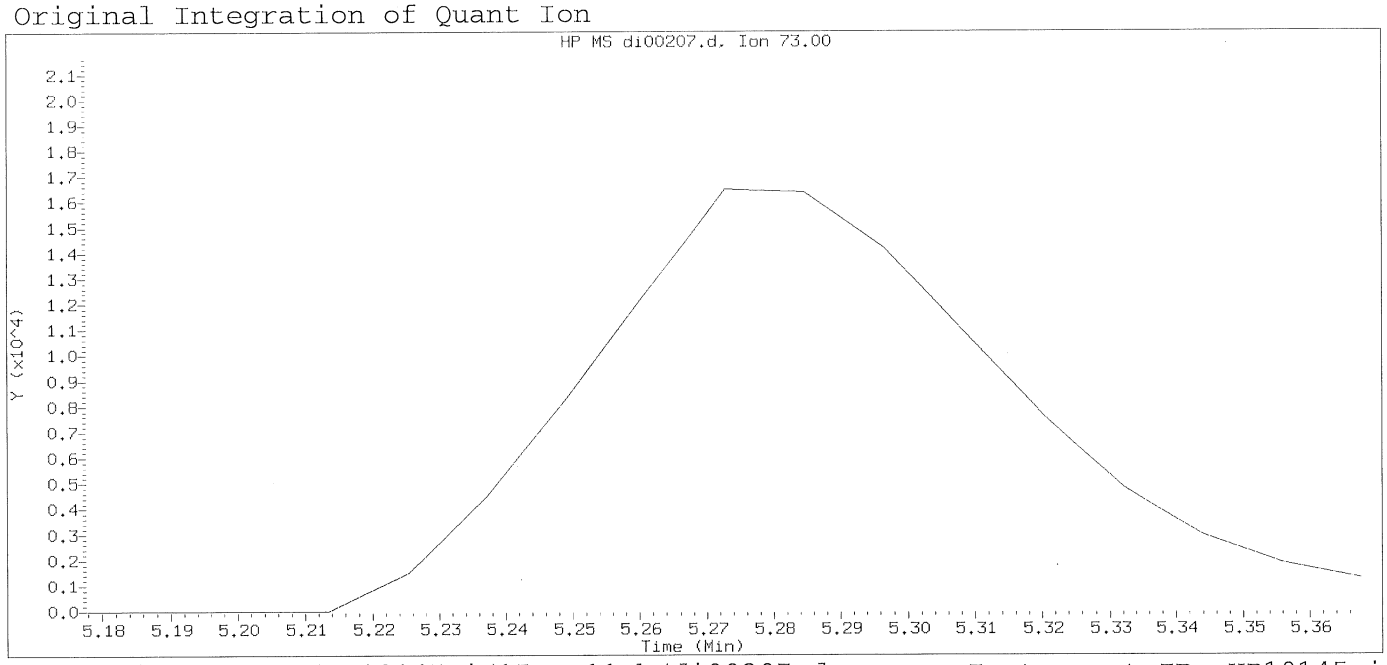
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

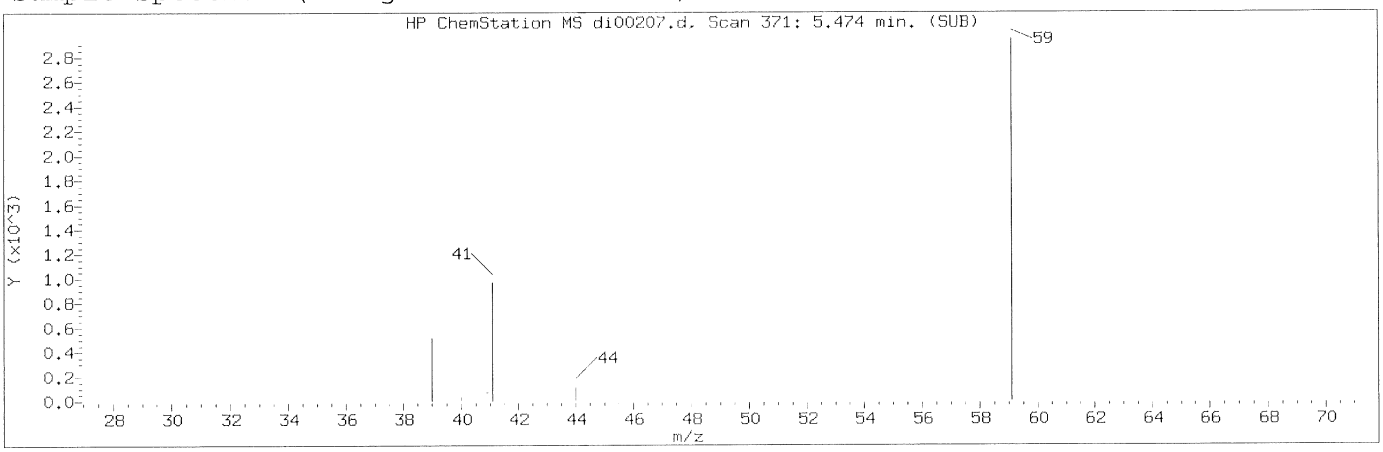
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

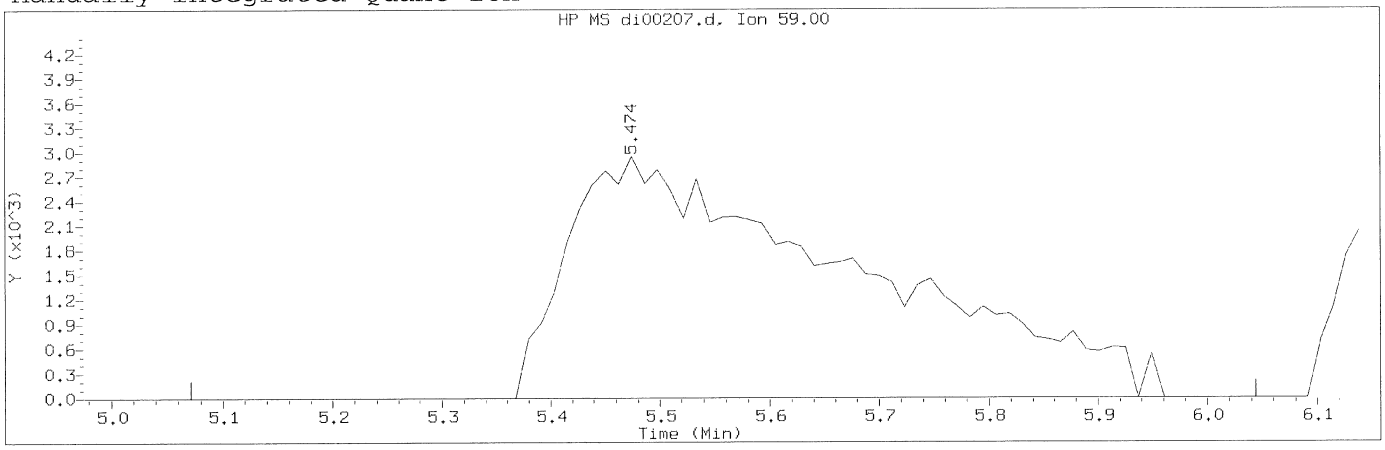
Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Expected RT (minutes) : 5.273
Quant Ion : 73.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 26		
Compound Name	: tert-Butyl Alcohol		
Scan Number	: 371		
Retention Time (minutes)	: 5.474		
Quant Ion	: 59.00		
Area (flag)	: 53698M		
Concentration (ppb(v))	: 0.4830		
Integration start scan	: 336	Integration stop scan:	418
Y at integration start	: 0	Y at integration end:	0

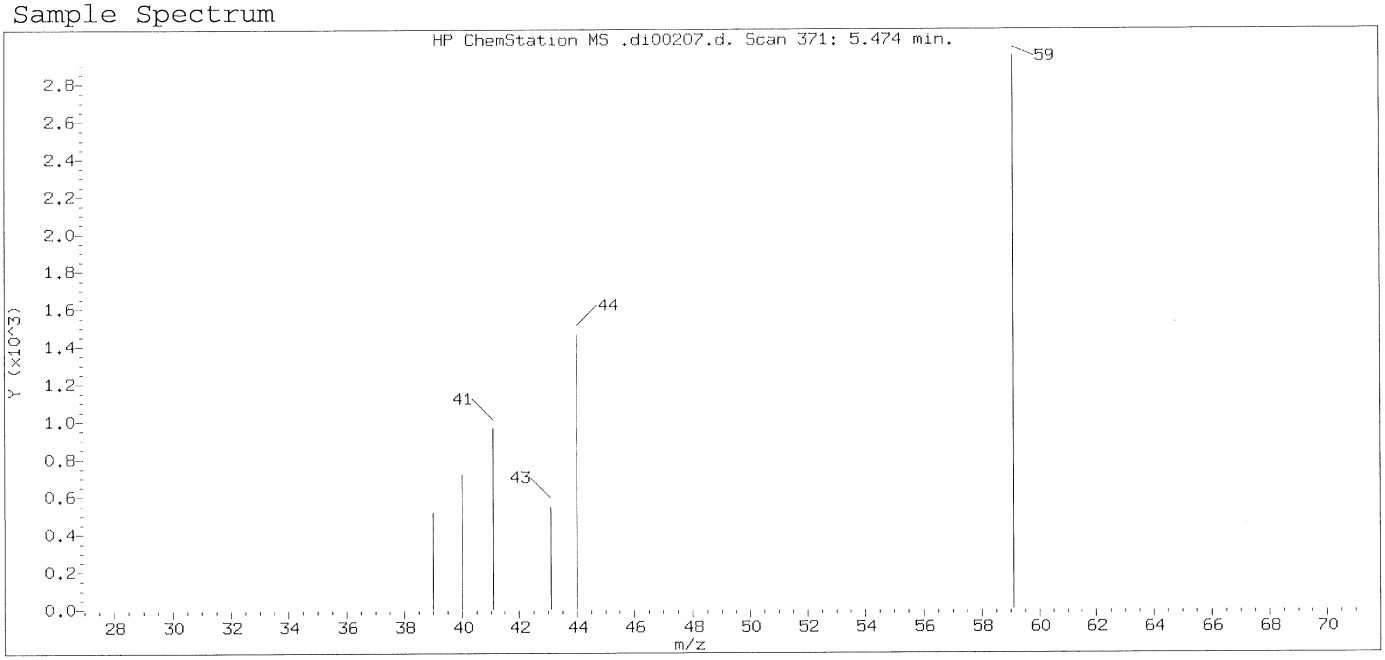
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

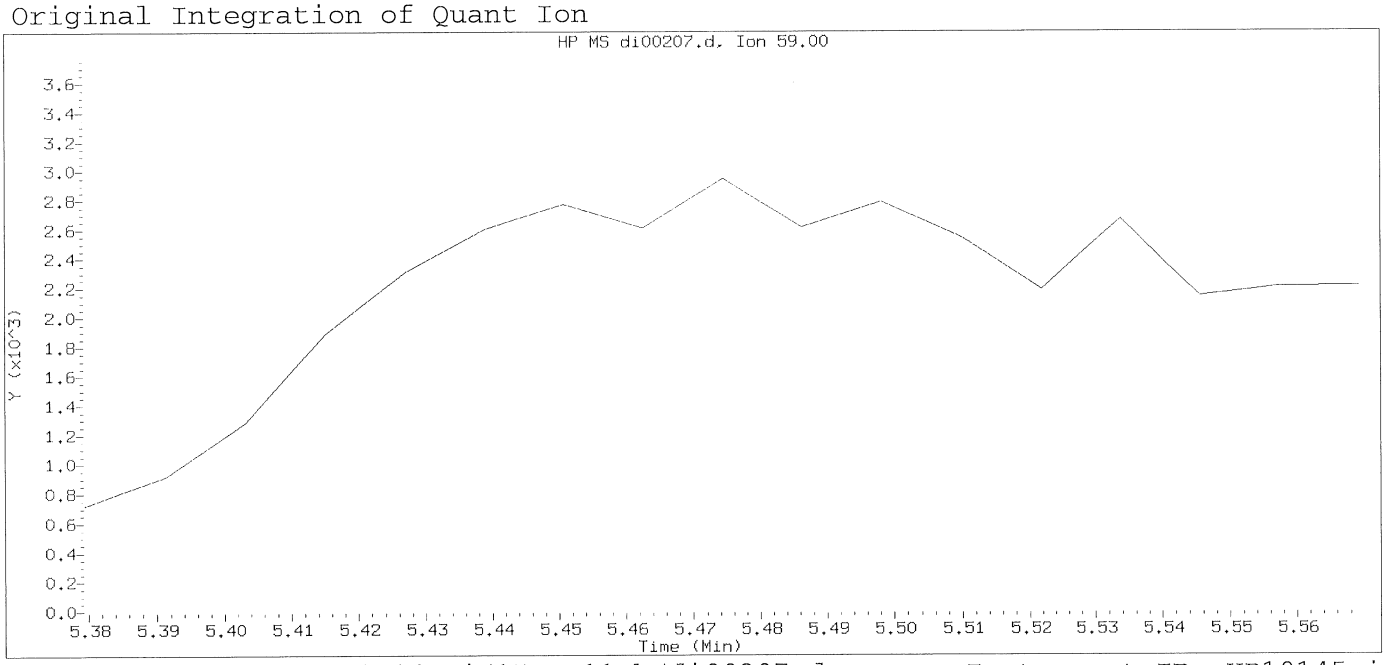
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

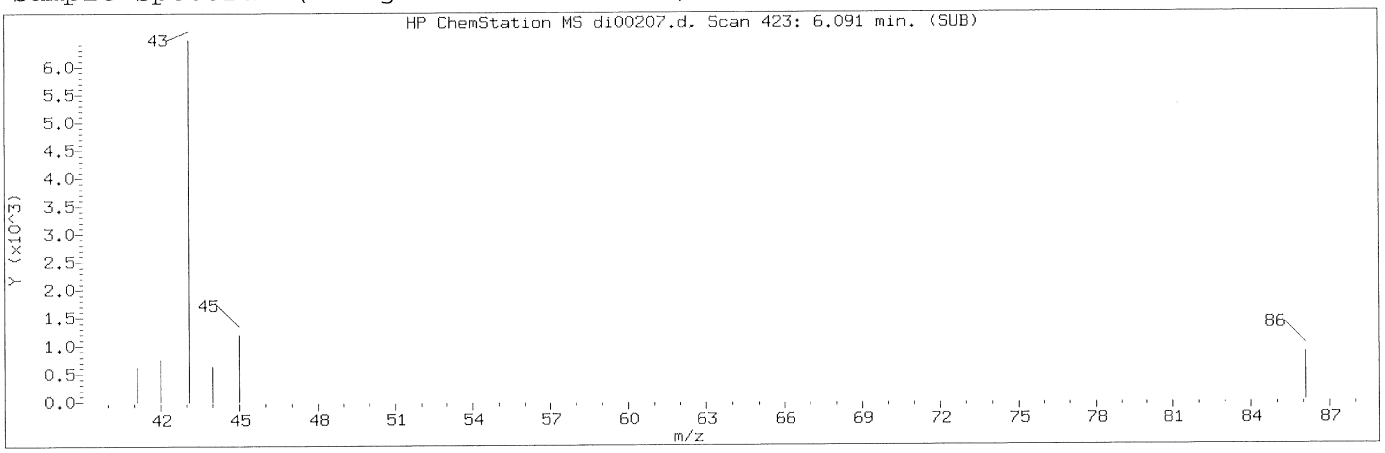
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

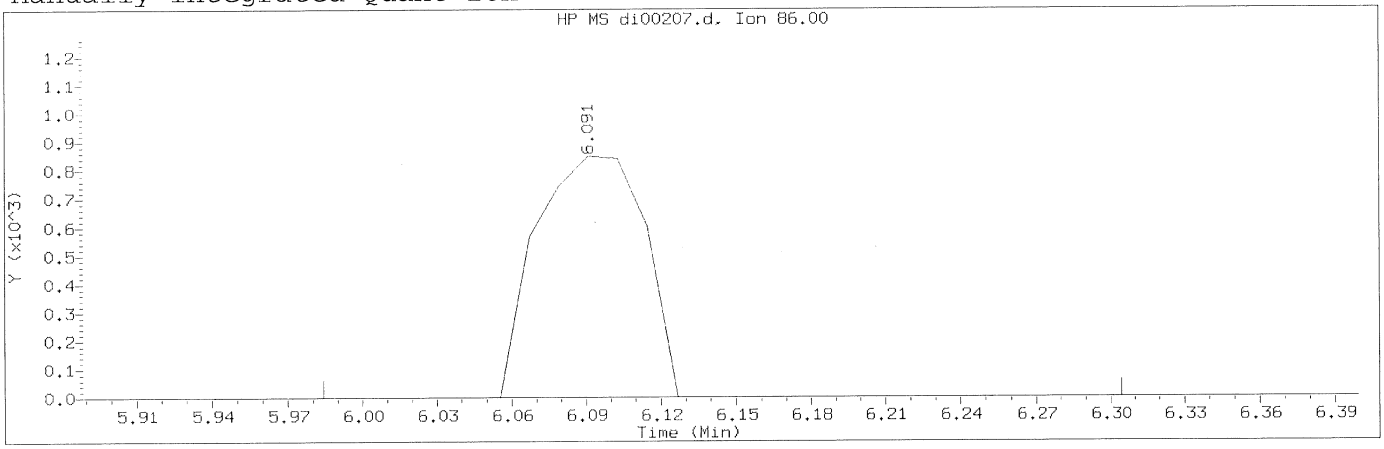
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Expected RT (minutes) : 5.474
Quant Ion : 59.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 32		
Compound Name	: Vinyl Acetate		
Scan Number	: 423		
Retention Time (minutes)	: 6.091		
Quant Ion	: 86.00		
Area (flag)	: 2564M		
Concentration (ppb(v))	: 0.1905		
Integration start scan	: 413	Integration stop scan:	440
Y at integration start	: 0	Y at integration end:	0

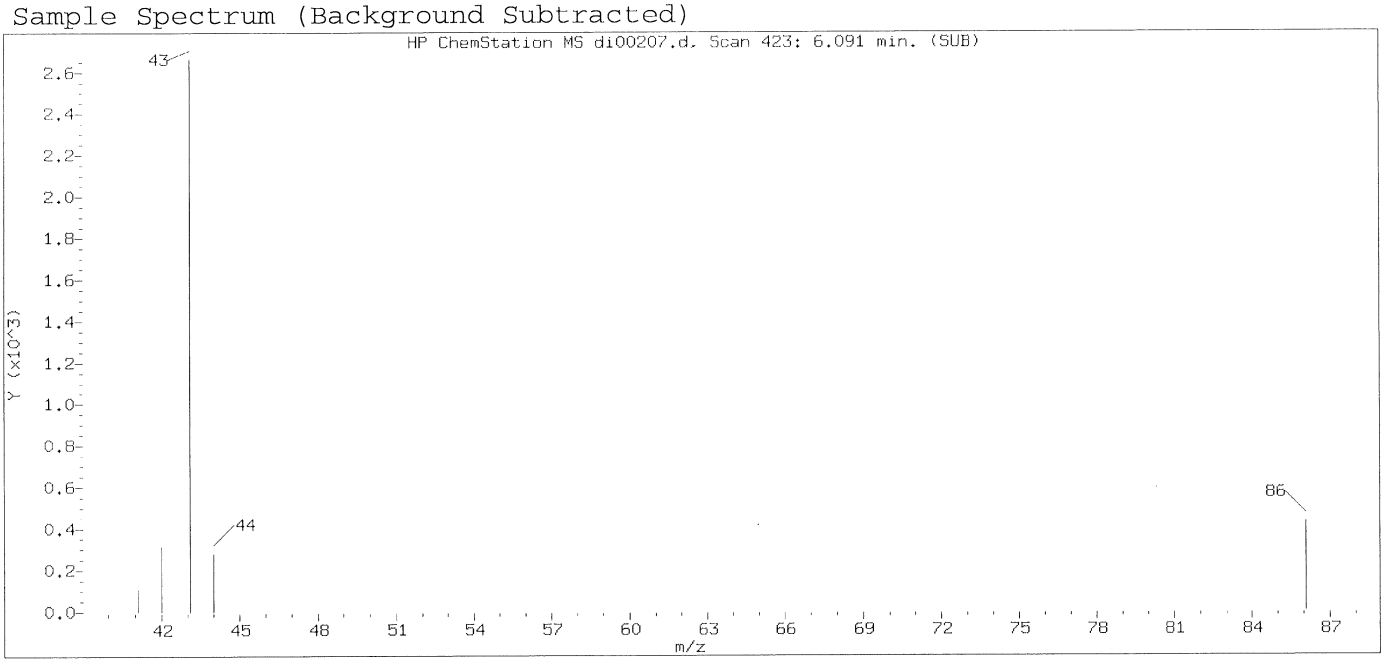
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

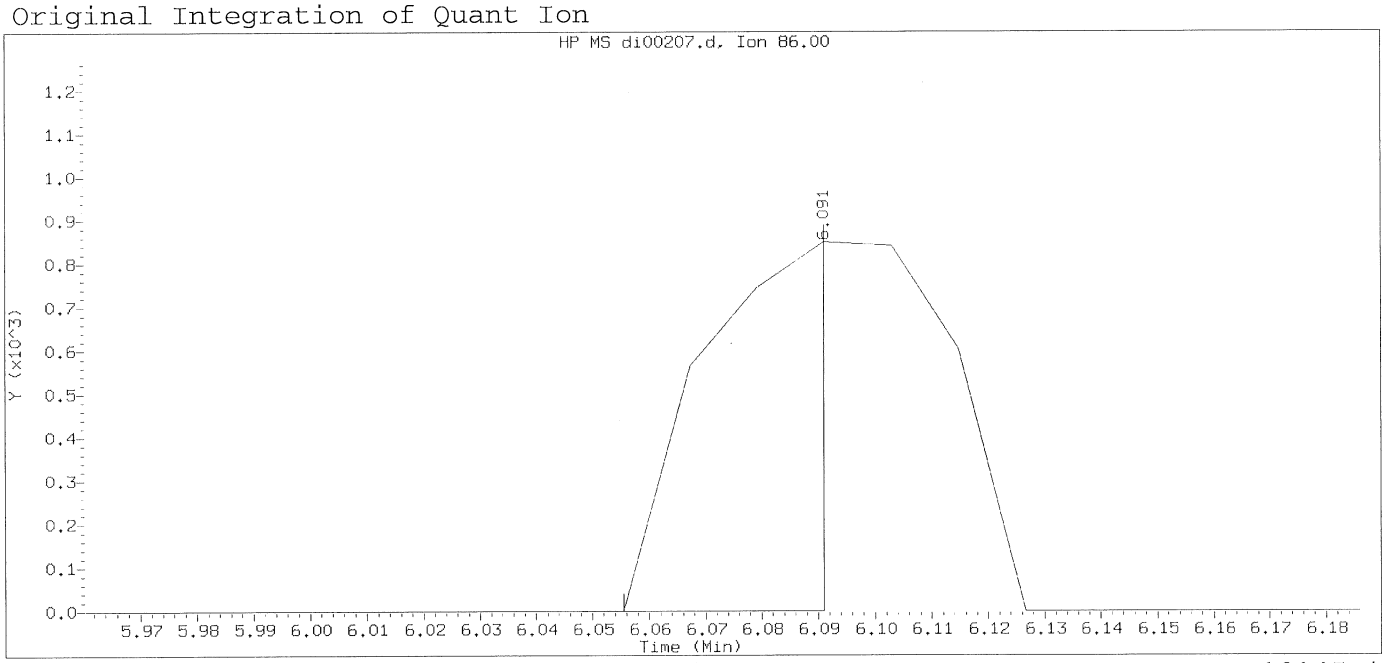
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

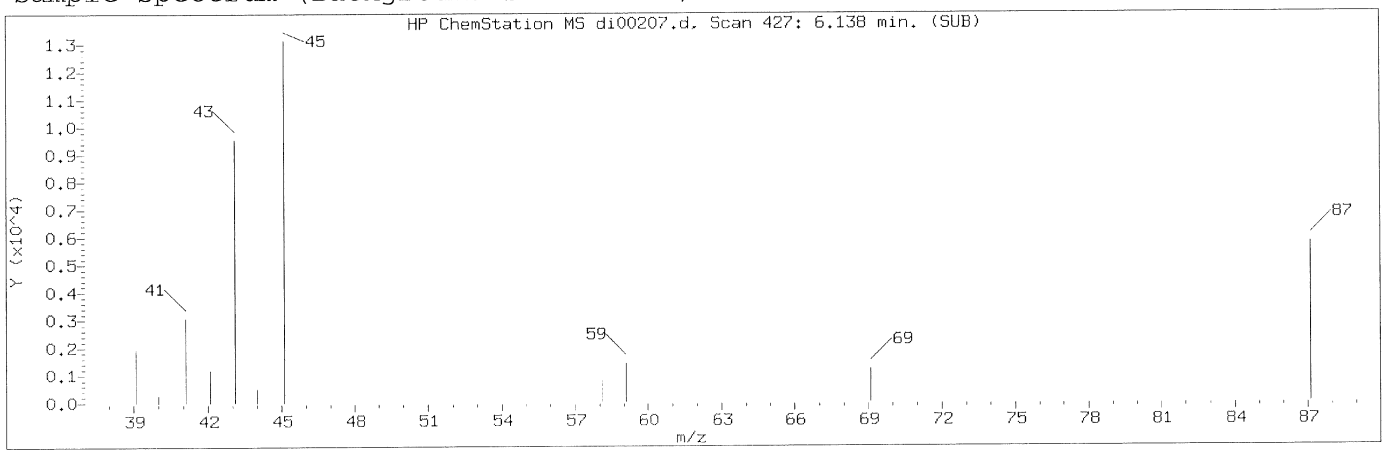
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

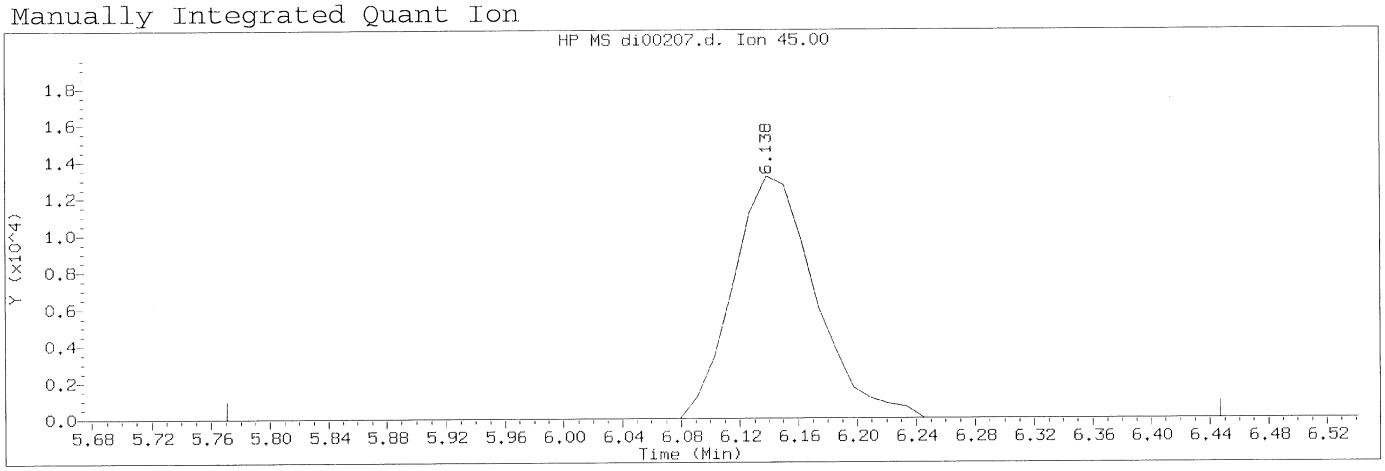
Compound Number	: 32		
Compound Name	: Vinyl Acetate		
Scan Number	: 423		
Retention Time (minutes)	: 6.091		
Quant Ion	: 86.00		
Area	: 1234		
Concentration (ppb(v))	: 0.1386		
Integration start scan	: 419	Integration stop scan:	422
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 33		
Compound Name	: Di-Isopropyl Ether		
Scan Number	: 427		
Retention Time (minutes)	: 6.138		
Quant Ion	: 45.00		
Area (flag)	: 51327M		
Concentration (ppb(v))	: 0.3838		
Integration start scan	: 395	Integration stop scan:	452
Y at integration start	: 0	Y at integration end:	0

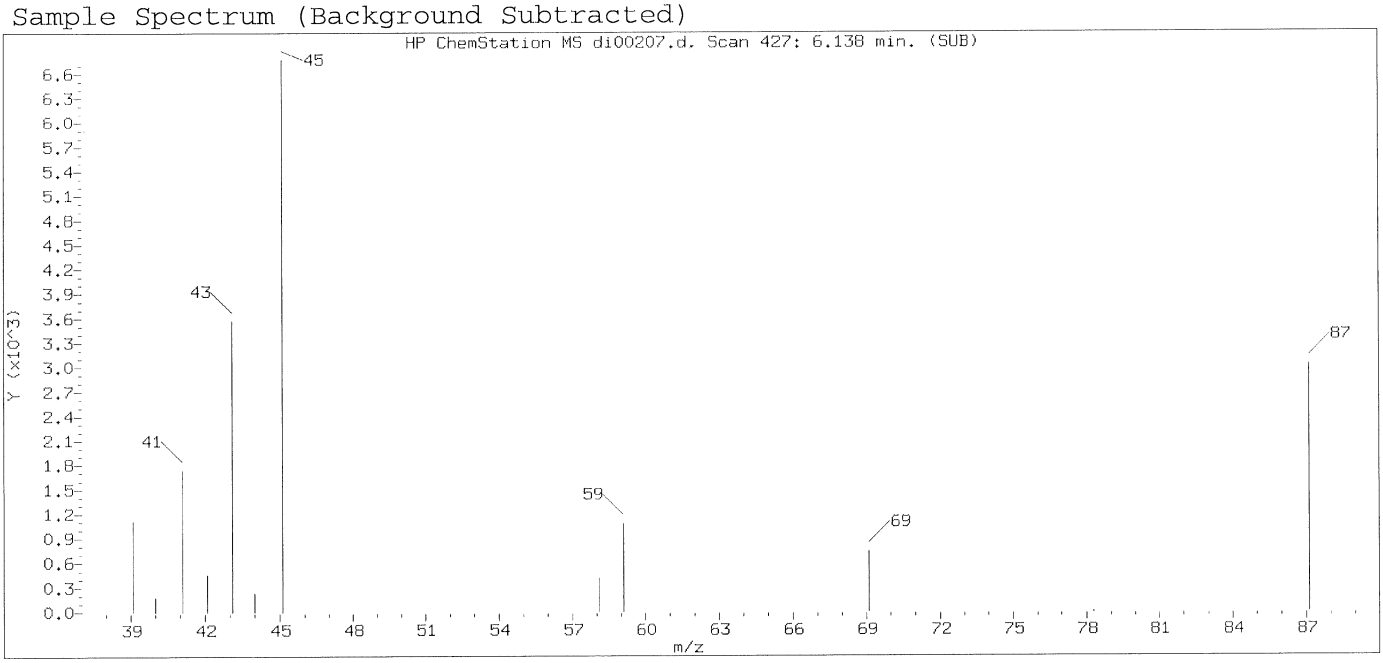
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

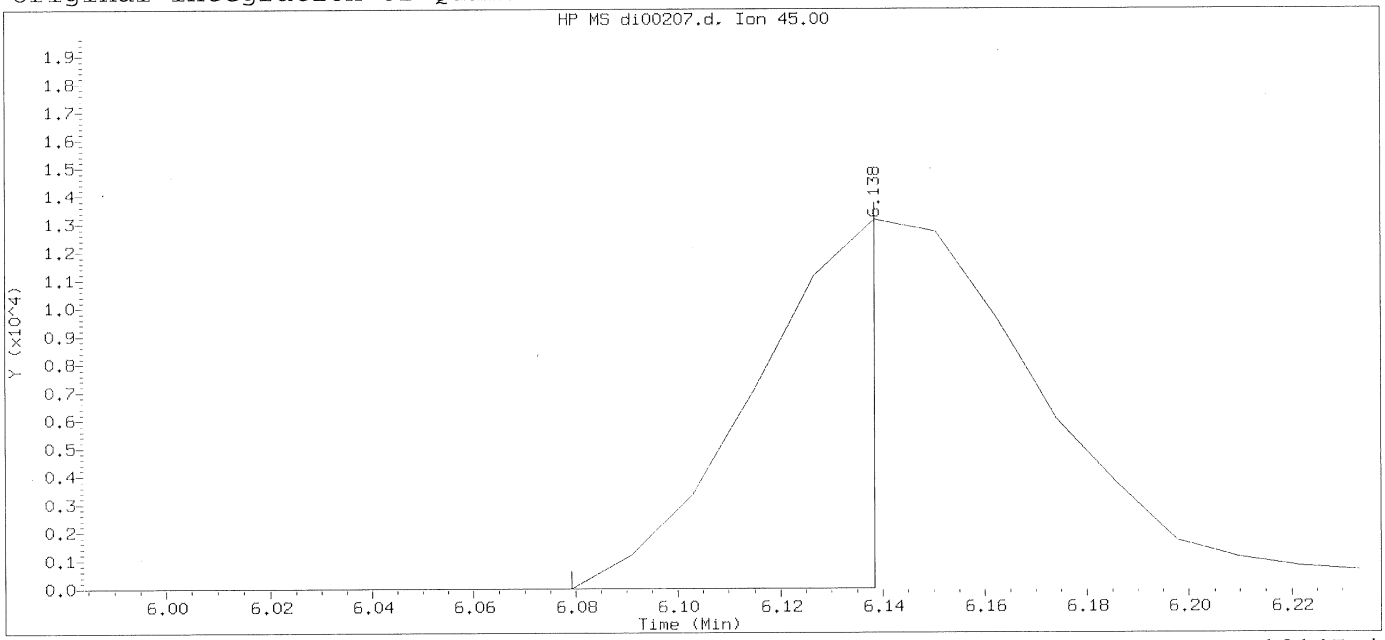
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

Compound Number	: 33		
Compound Name	: Di-Isopropyl Ether		
Scan Number	: 427		
Retention Time (minutes)	: 6.138		
Quant Ion	: 45.00		
Area	: 20800		
Concentration (ppb(v))	: 0.2455		
Integration start scan	: 421	Integration stop scan:	426
Y at integration start	: 0	Y at integration end:	0

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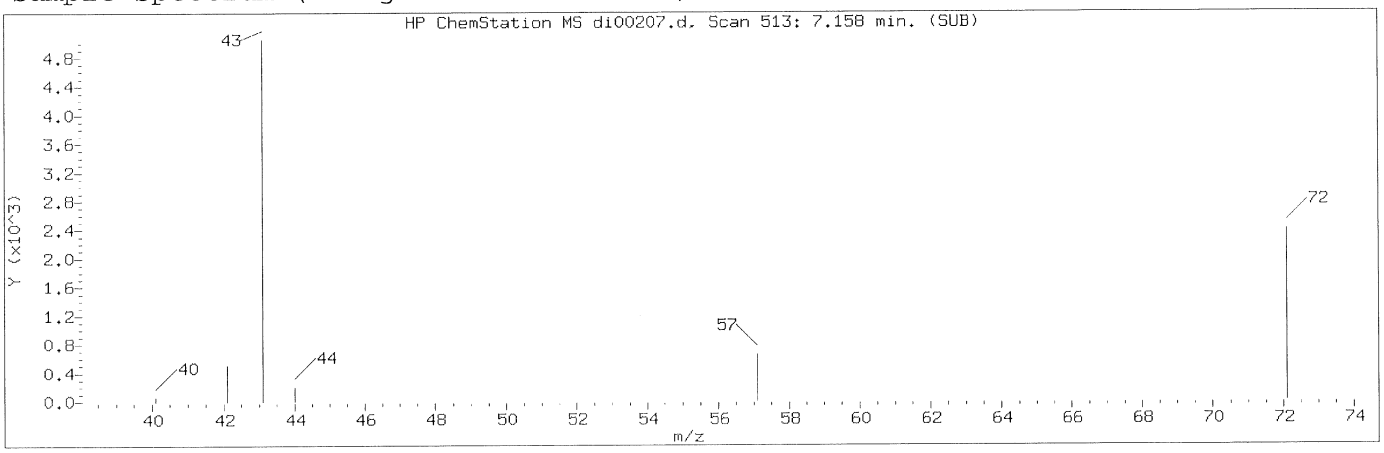
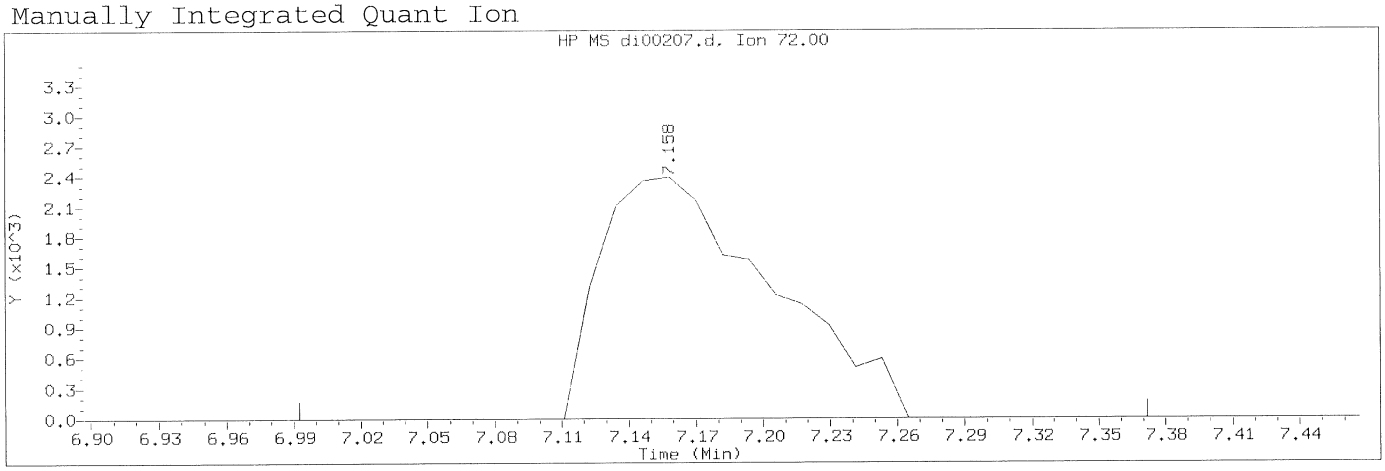
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

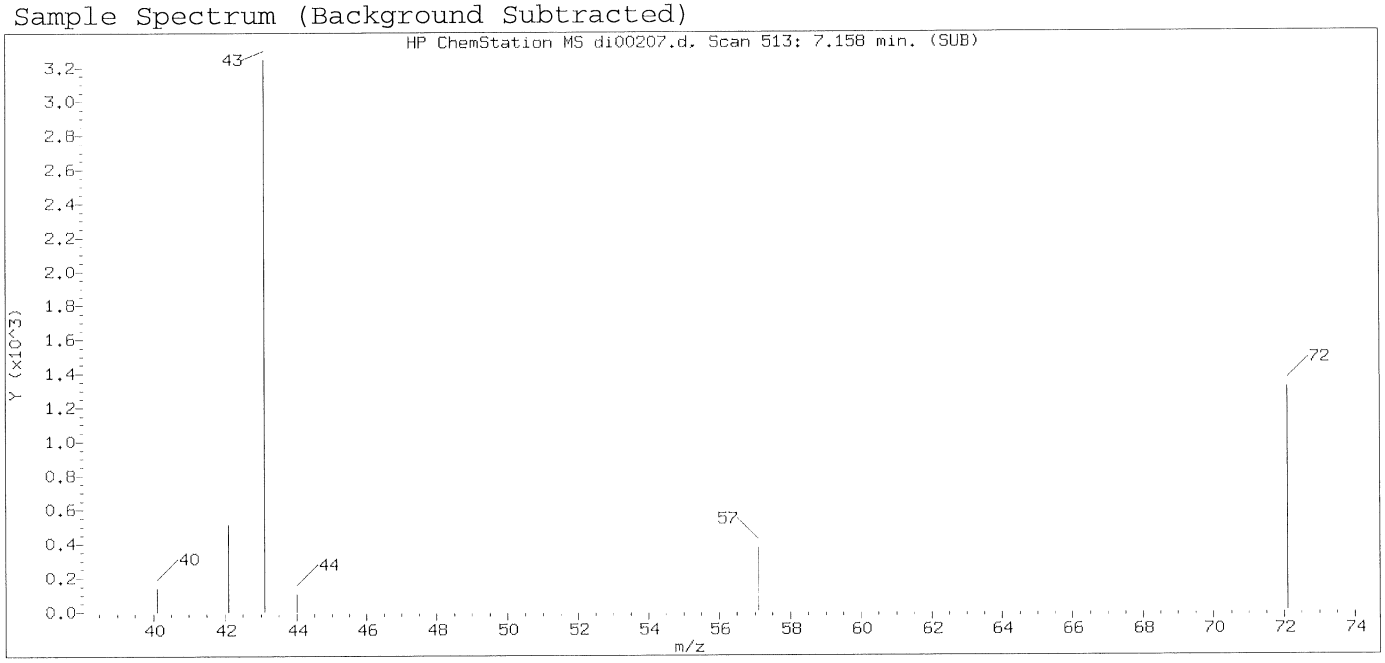
Compound Number	: 37		
Compound Name	: 2-Butanone		
Scan Number	: 513		
Retention Time (minutes)	: 7.158		
Quant Ion	: 72.00		
Area (flag)	: 12716M		
Concentration (ppb(v))	: 0.4416		
Integration start scan	: 498	Integration stop scan:	530
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

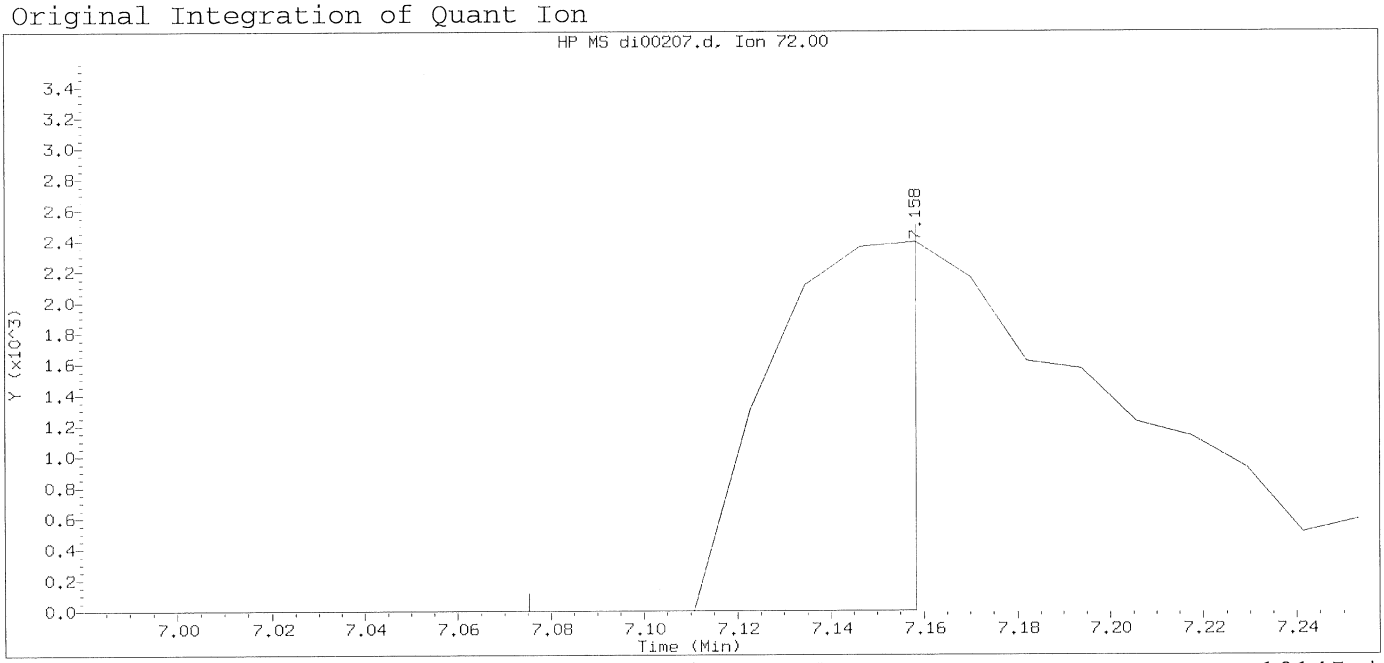
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist SEP 15 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

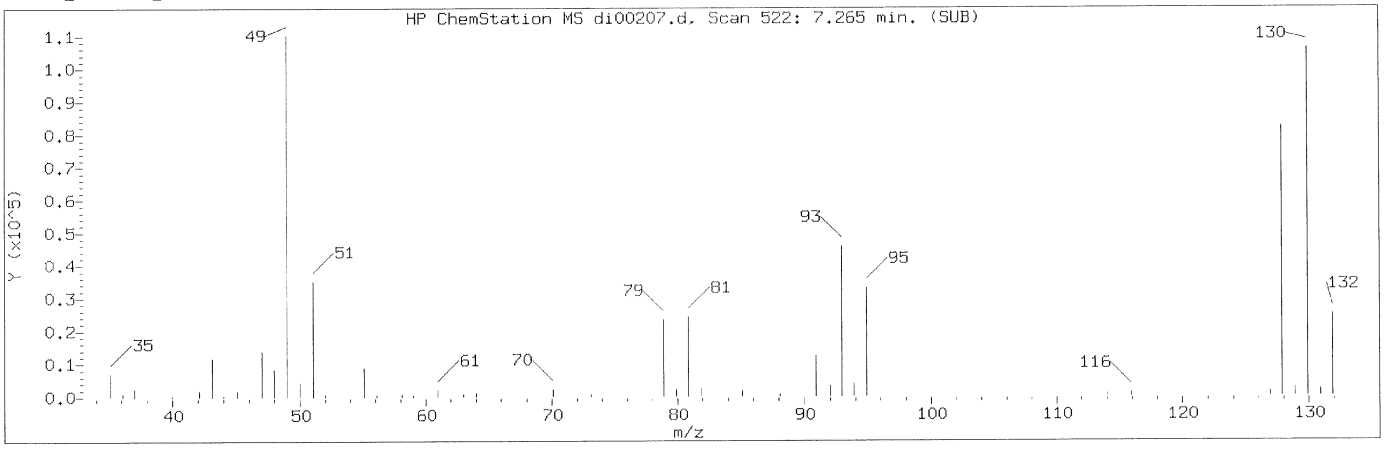
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

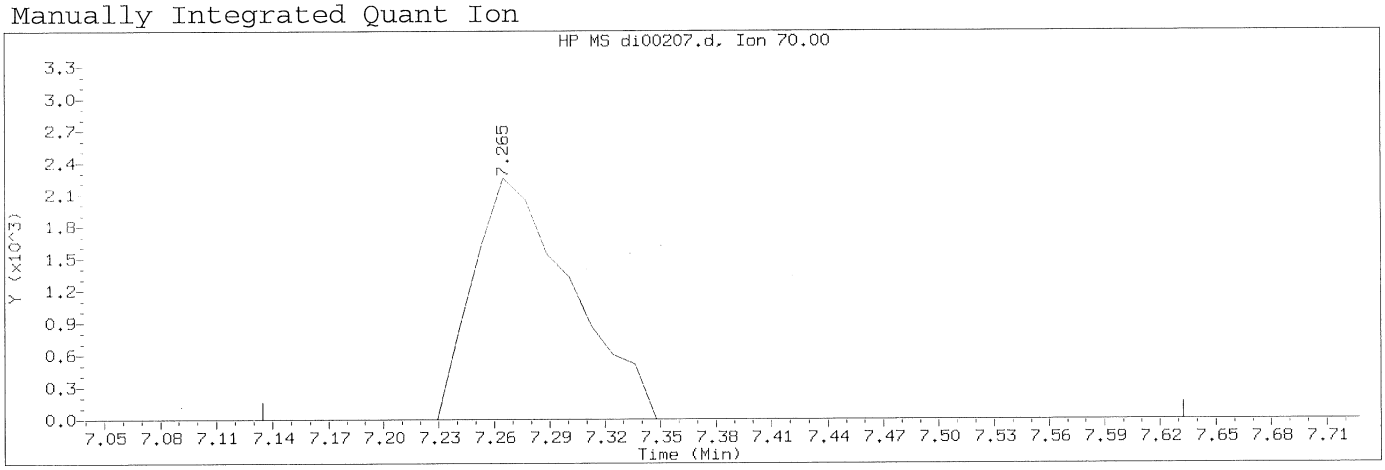
Compound Number	: 37		
Compound Name	: 2-Butanone		
Scan Number	: 513		
Retention Time (minutes)	: 7.158		
Quant Ion	: 72.00		
Area	: 4953		
Concentration (ppb(v))	: 0.2237		
Integration start scan	: 505	Integration stop scan:	512
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 38		
Compound Name	: Ethyl Acetate		
Scan Number	: 522		
Retention Time (minutes)	: 7.265		
Quant Ion	: 70.00		
Area (flag)	: 8278M		
Concentration (ppb(v))	: 0.4714		
Integration start scan	: 510	Integration stop scan:	552
Y at integration start	: 0	Y at integration end:	0

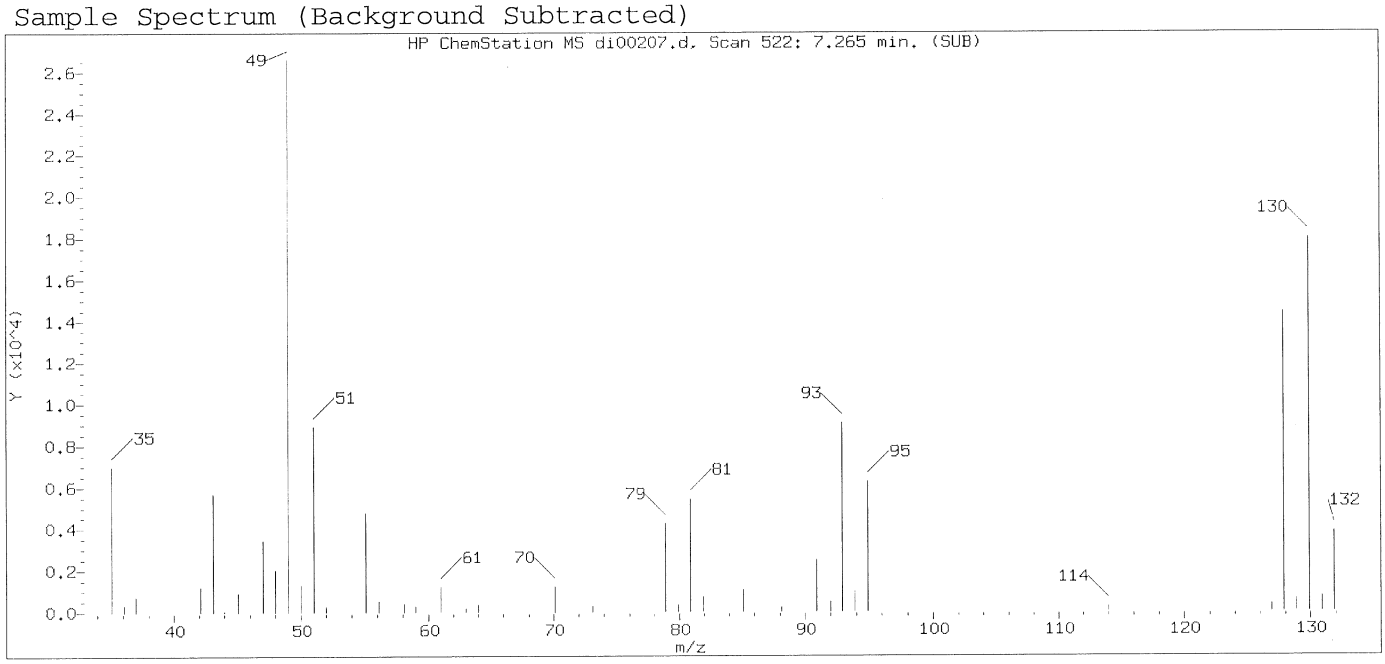
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

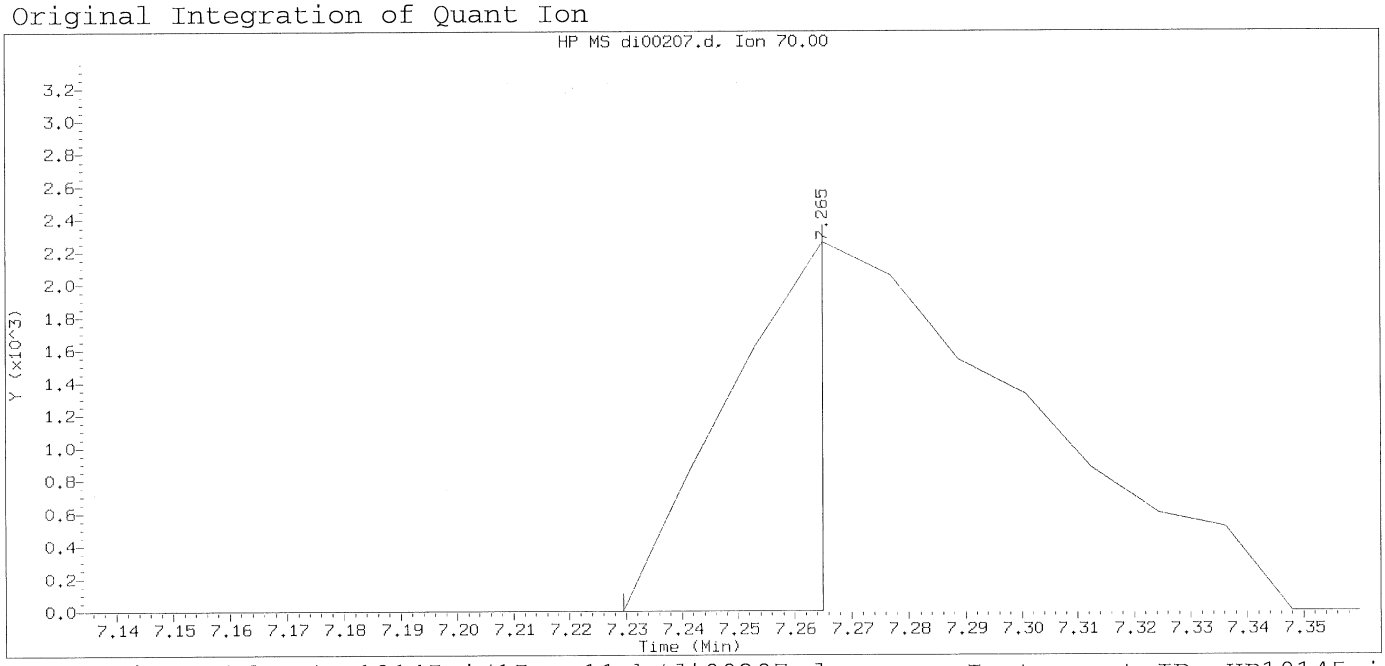
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

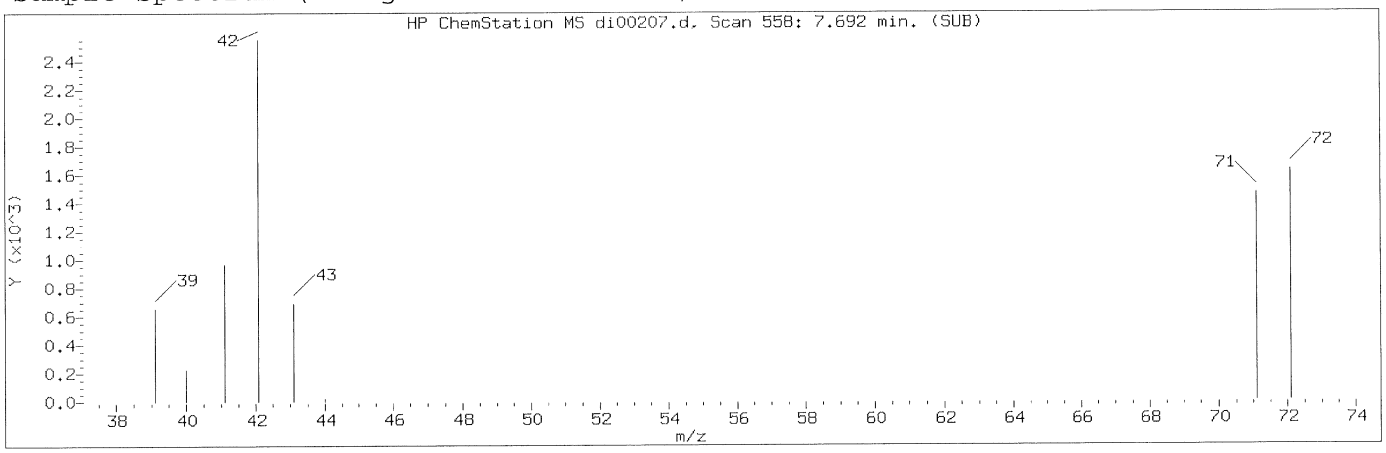
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

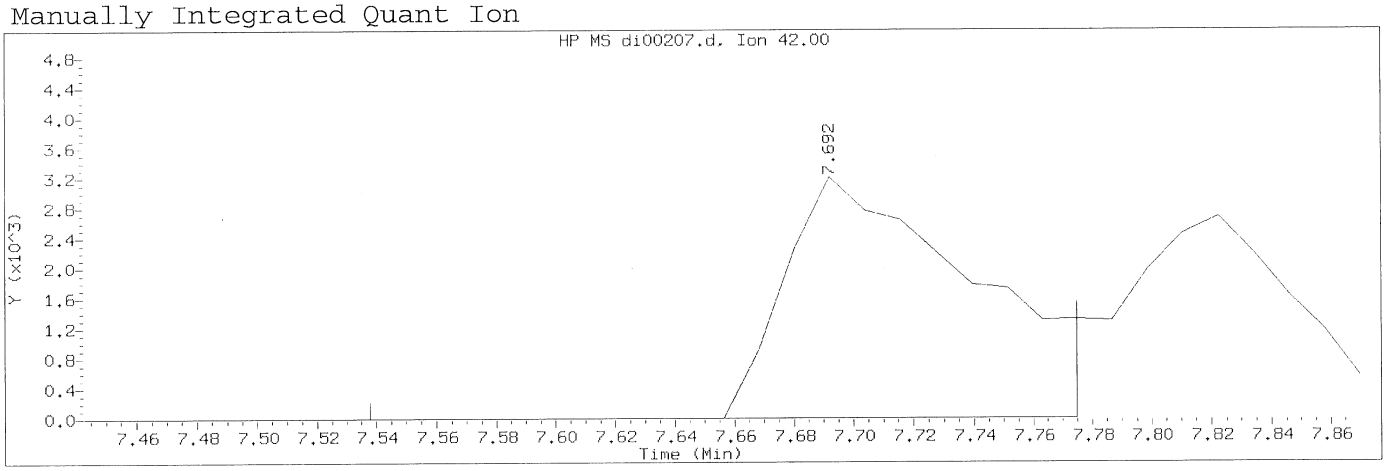
Compound Number	: 38		
Compound Name	: Ethyl Acetate		
Scan Number	: 522		
Retention Time (minutes)	: 7.265		
Quant Ion	: 70.00		
Area	: 2566		
Concentration (ppb(v))	: 0.2285		
Integration start scan	: 518	Integration stop scan:	521
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 41		
Compound Name	: Tetrahydrofuran		
Scan Number	: 558		
Retention Time (minutes)	: 7.692		
Quant Ion	: 42.00		
Area (flag)	: 14288M		
Concentration (ppb(v))	: 0.3493		
Integration start scan	: 544	Integration stop scan:	564
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

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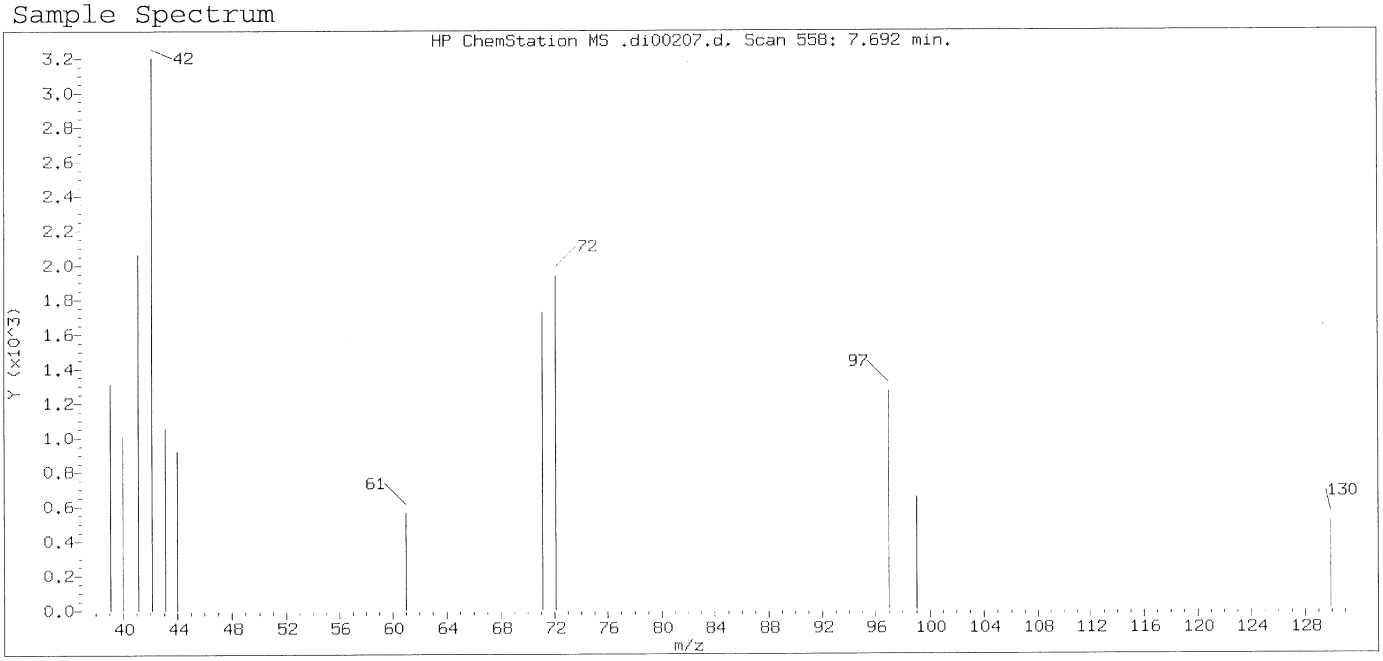
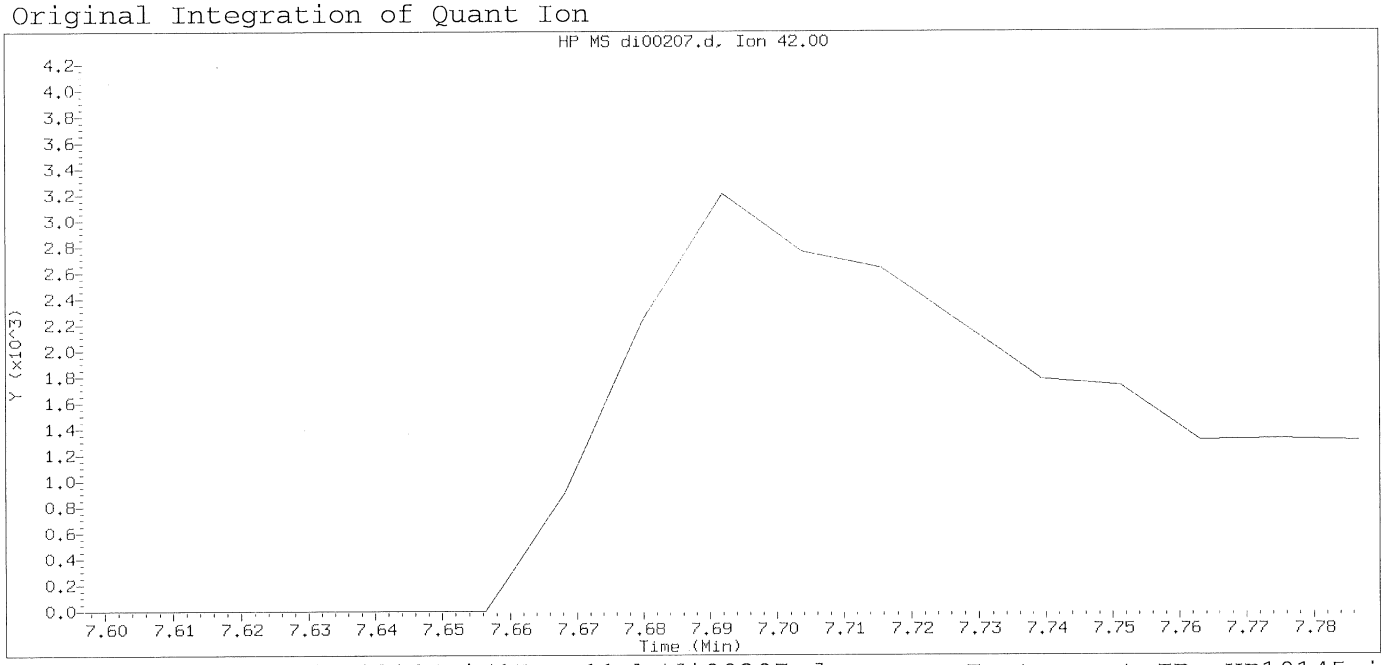
Senior Specialist
SEP 15 2015

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

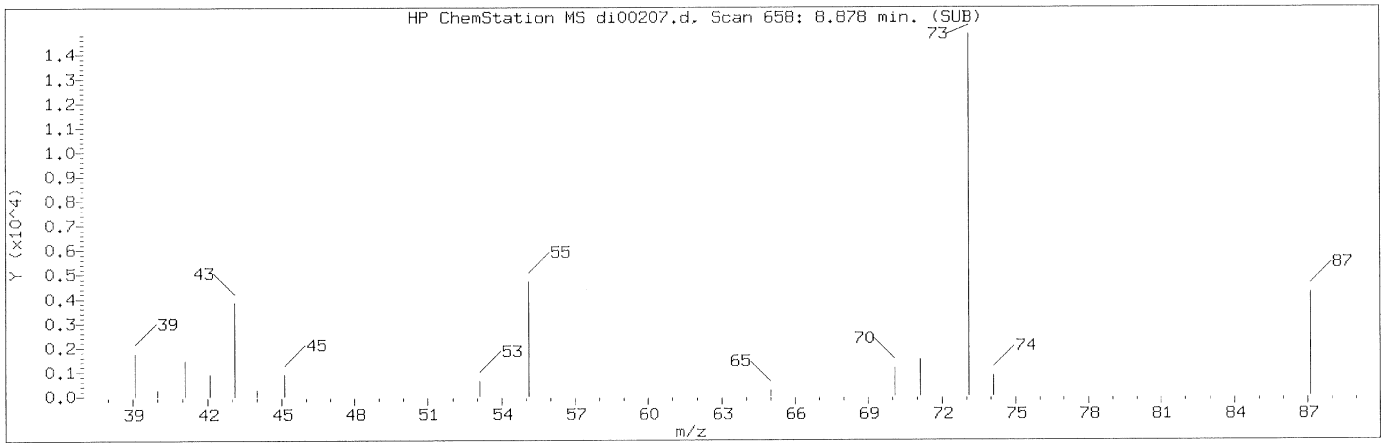
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

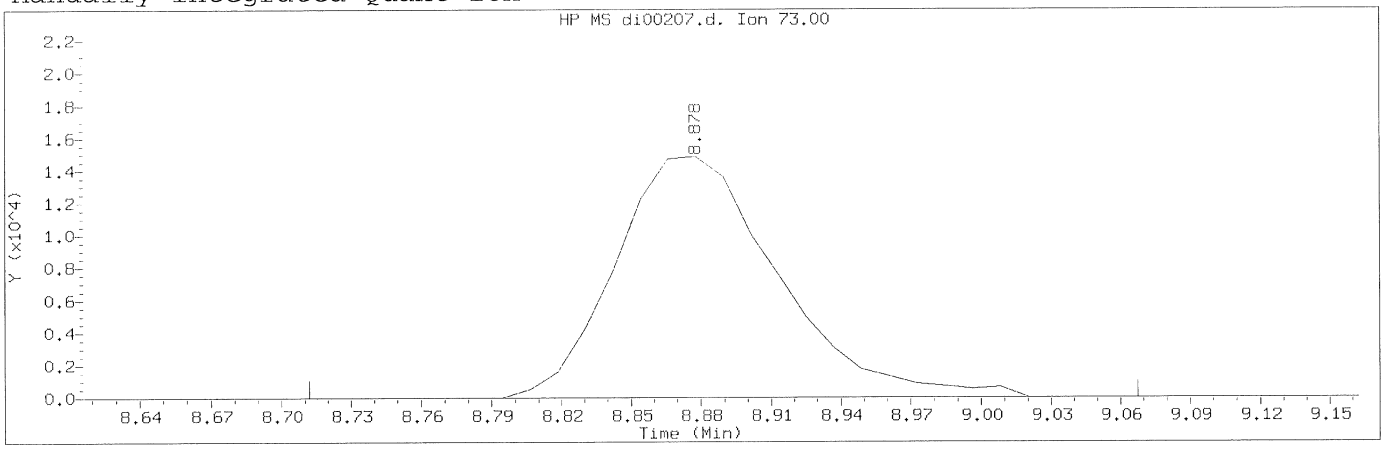
Compound Number : 41
Compound Name : Tetrahydrofuran
Expected RT (minutes) : 7.692
Quant Ion : 42.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 49		
Compound Name	: Tert-Amyl Methyl Ether		
Scan Number	: 658		
Retention Time (minutes)	: 8.878		
Quant Ion	: 73.00		
Area (flag)	: 71817M		
Concentration (ppb(v))	: 0.3562		
Integration start scan	: 643	Integration stop scan:	673
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Mark A. Ratcliff
Senior Specialist
SEP 15 2015

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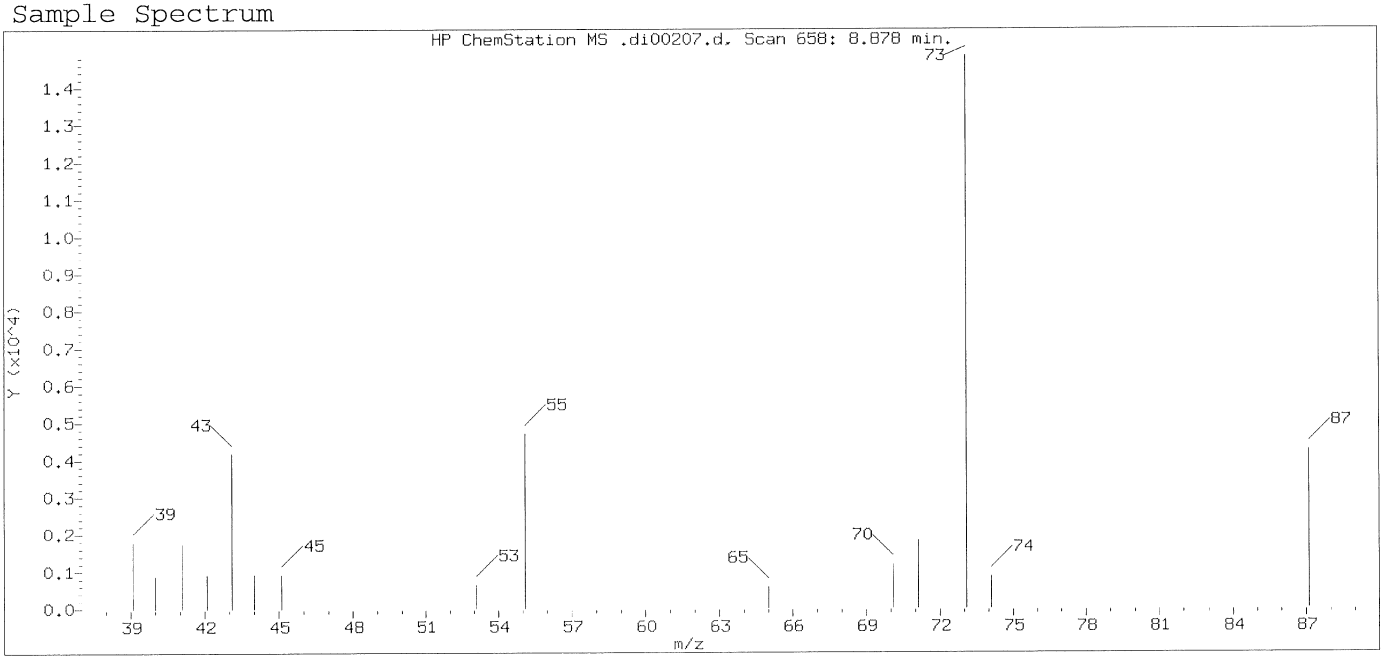
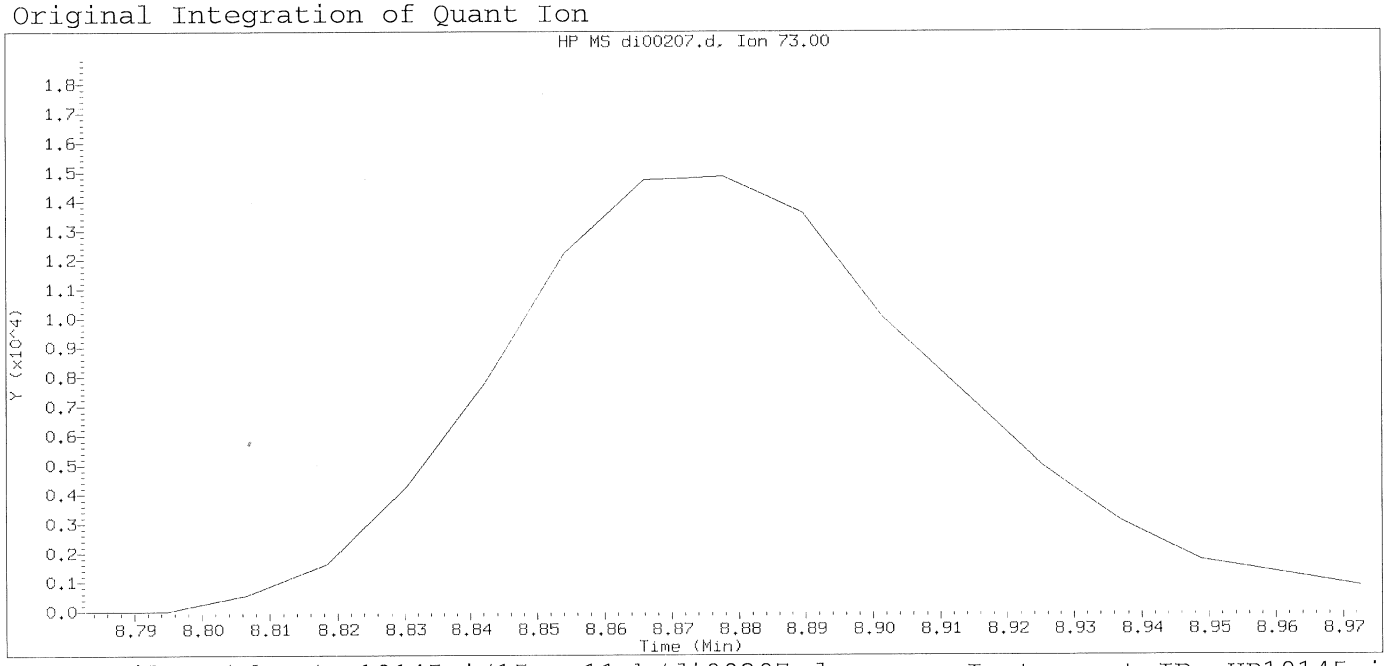
Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

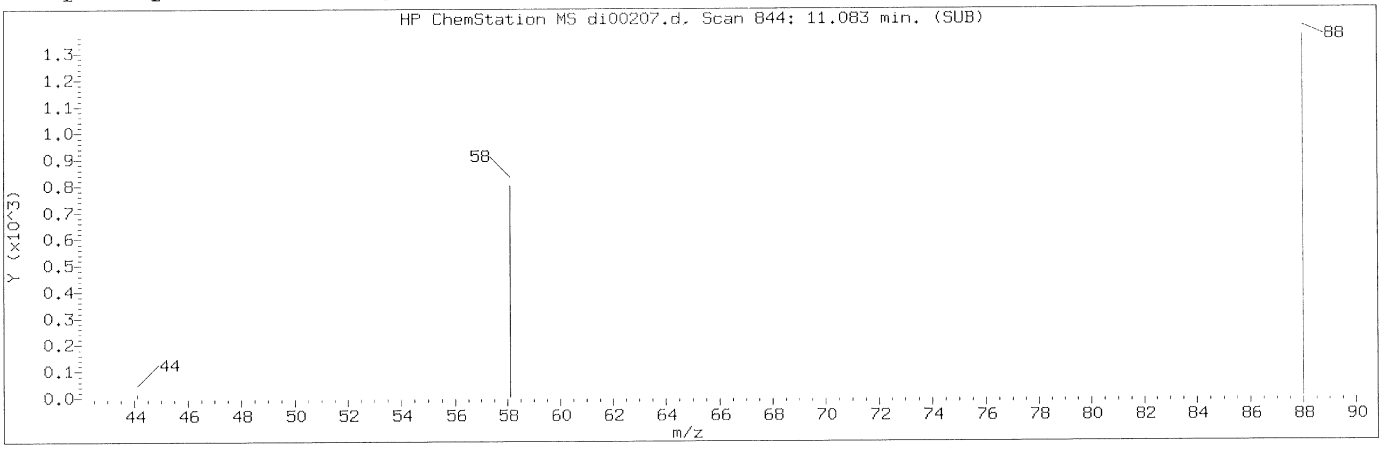
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

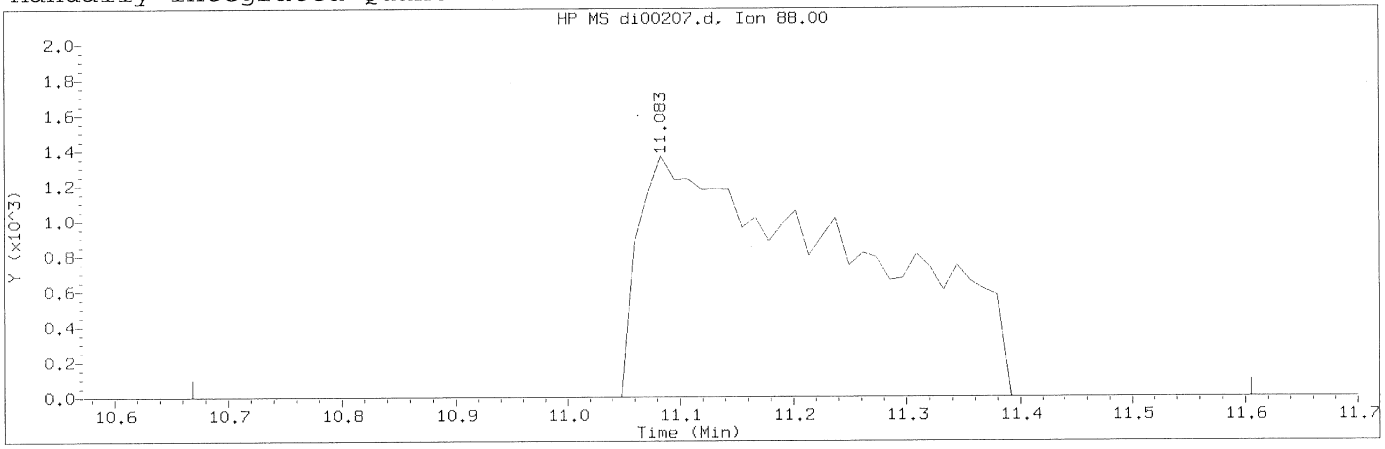
Compound Number : 49
Compound Name : Tert-Amyl Methyl Ether
Expected RT (minutes) : 8.878
Quant Ion : 73.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 844		
Retention Time (minutes)	: 11.083		
Quant Ion	: 88.00		
Area (flag)	: 18095M		
Concentration (ppb(v))	: 0.3977		
Integration start scan	: 808	Integration stop scan:	887
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

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Senior Specialist
SEP 15 2015

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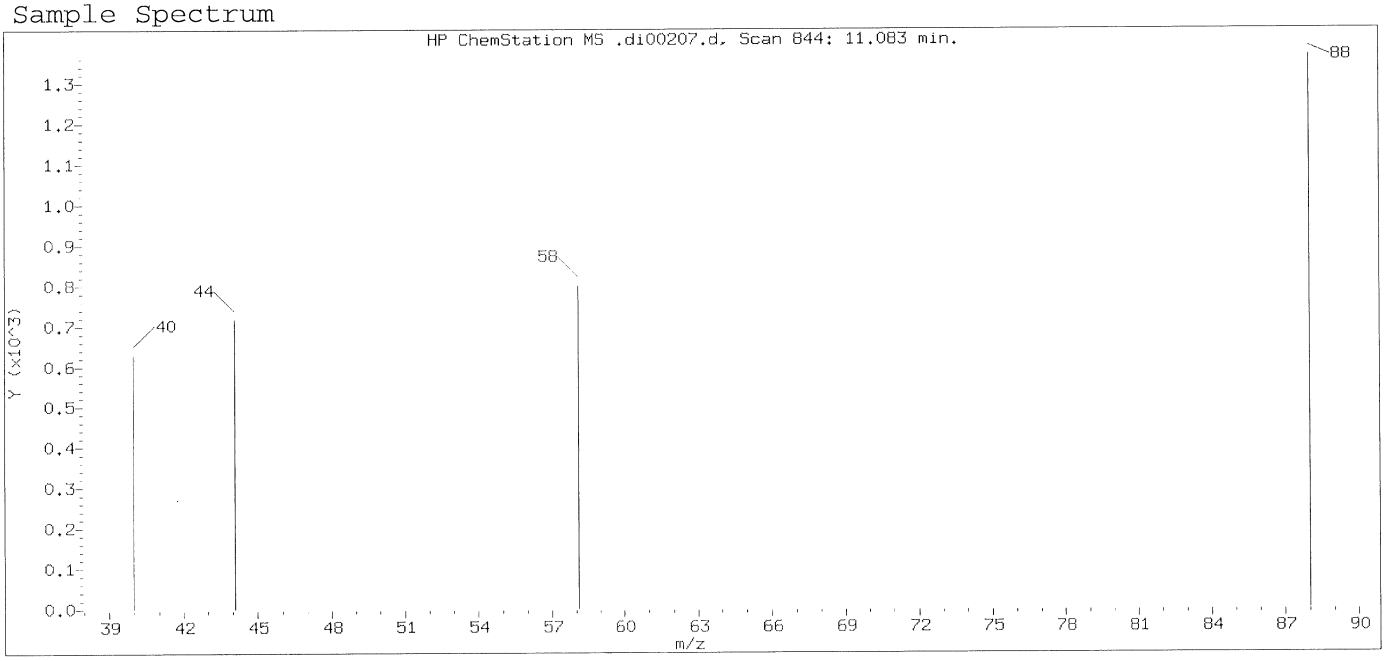
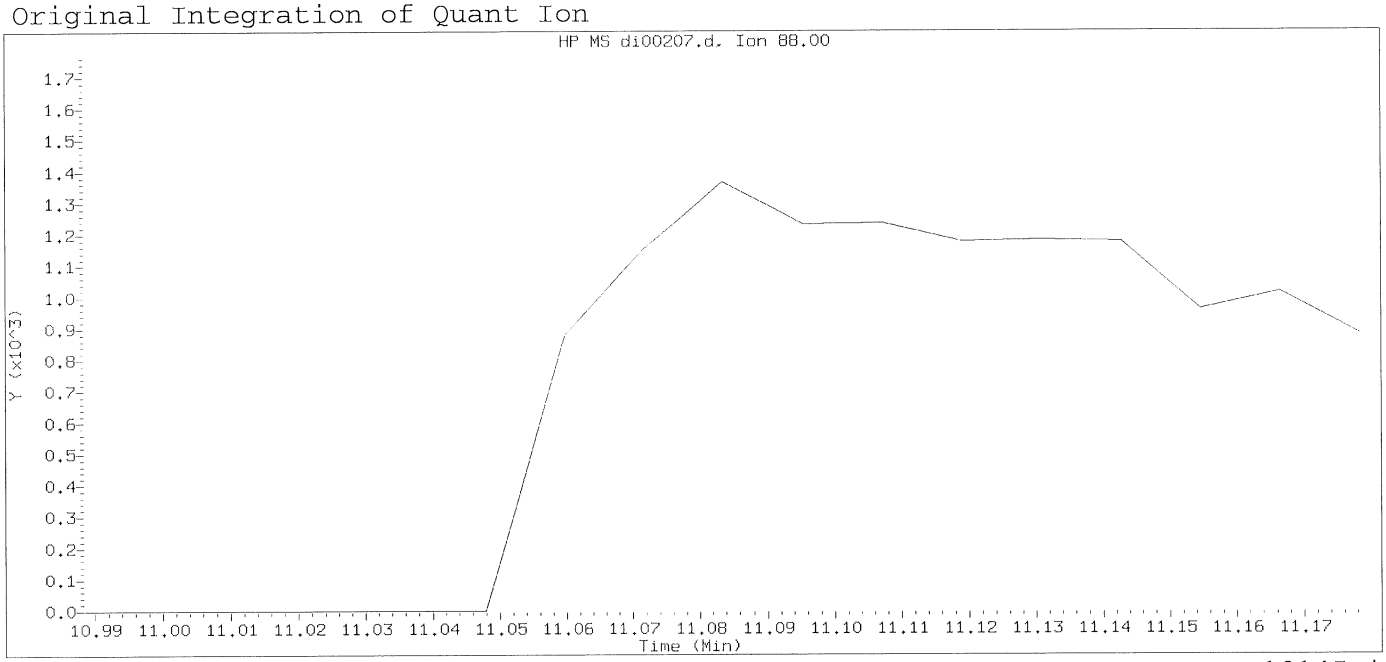
Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

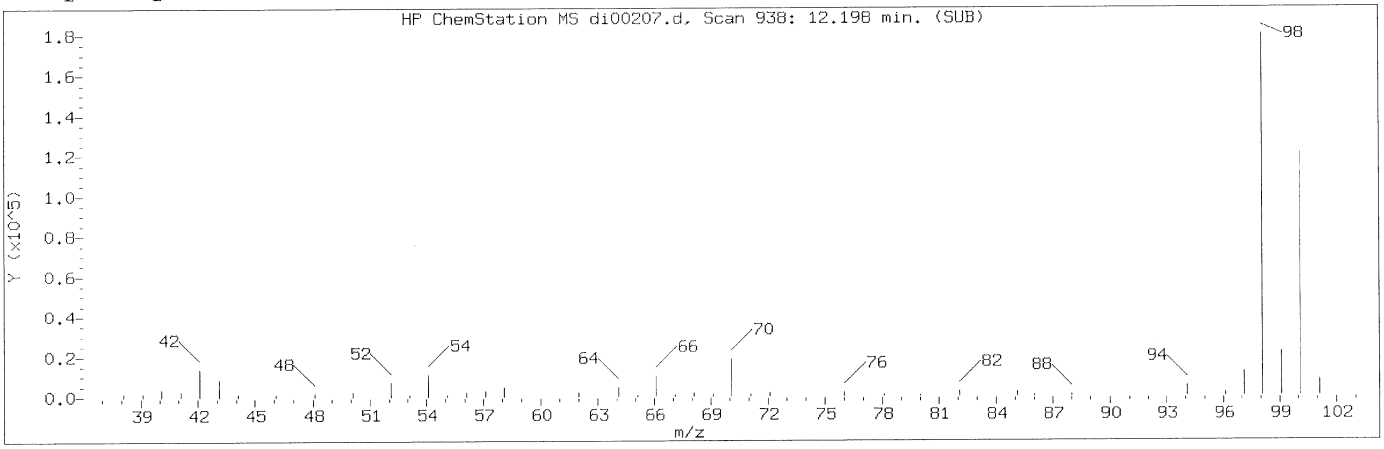
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

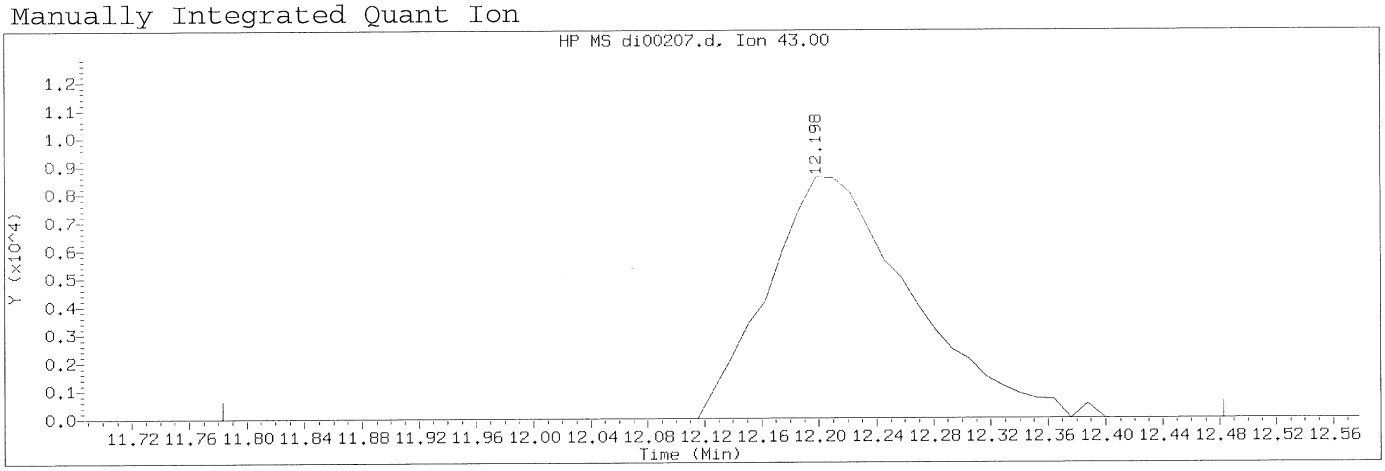
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 11.083
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number : 60
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 938
Retention Time (minutes): 12.198
Quant Ion : 43.00
Area (flag) : 59619M
Concentration (ppb(v)) : 0.5632
Integration start scan : 902 Integration stop scan: 961
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

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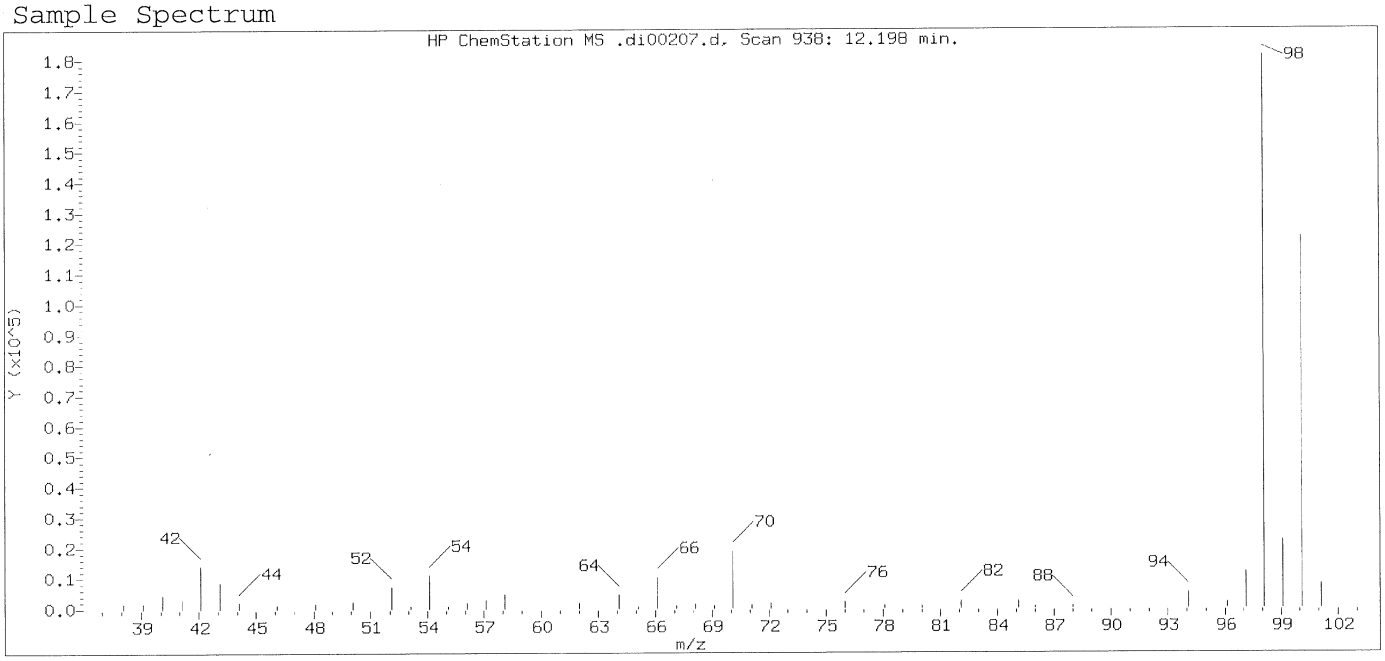
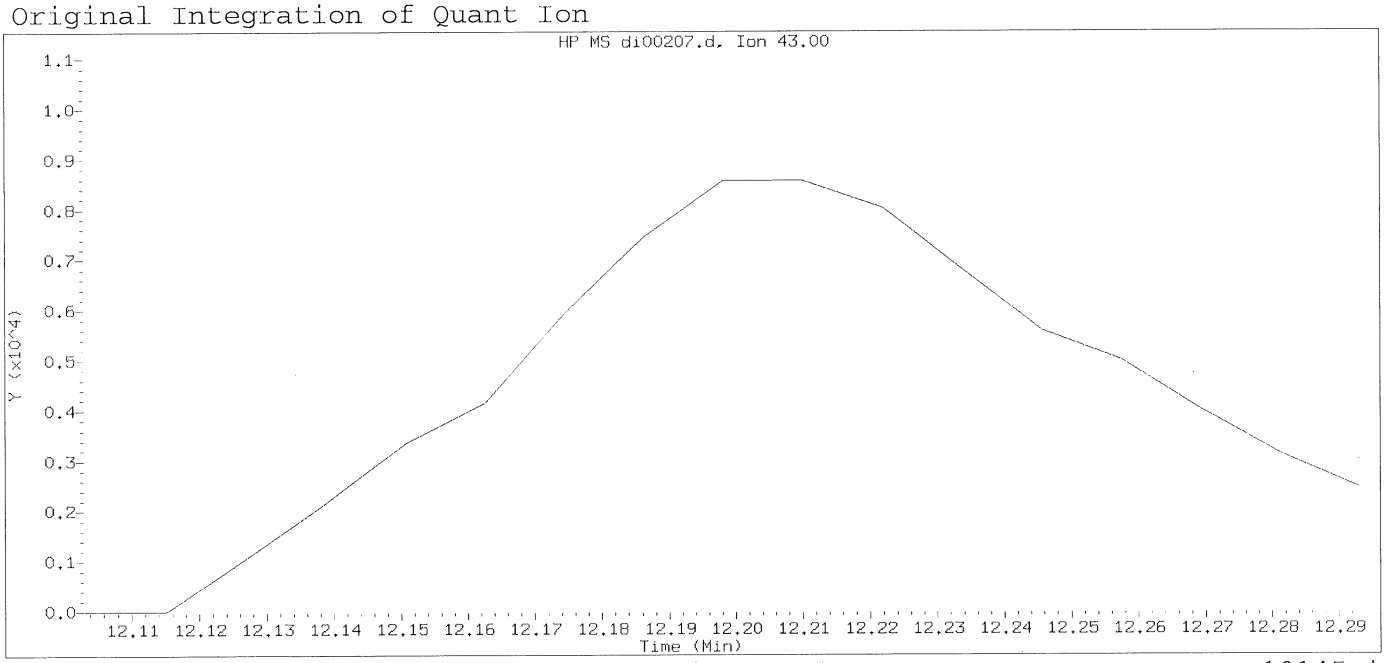
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

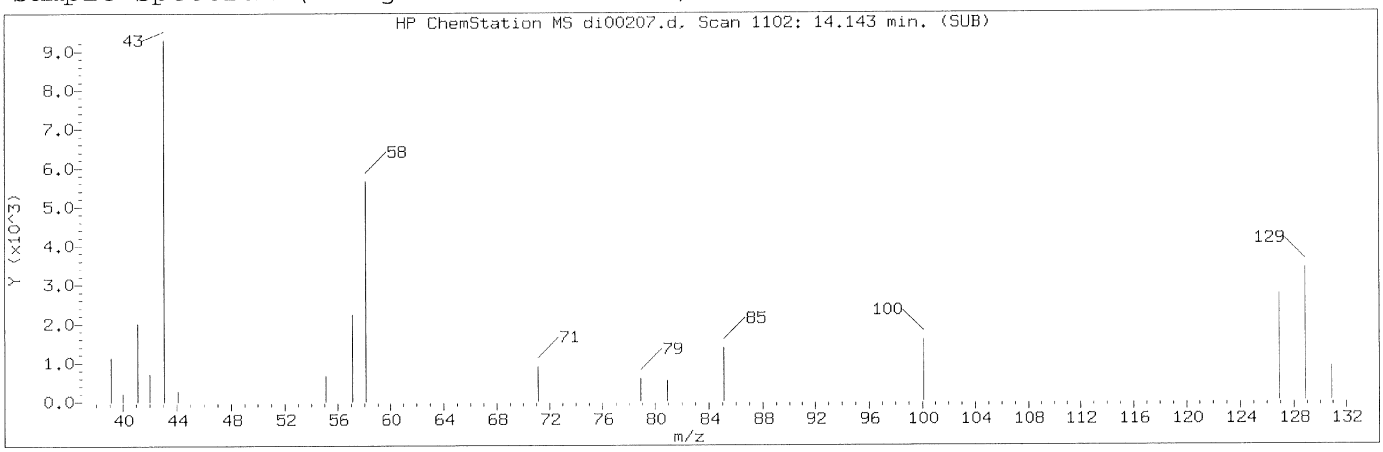
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

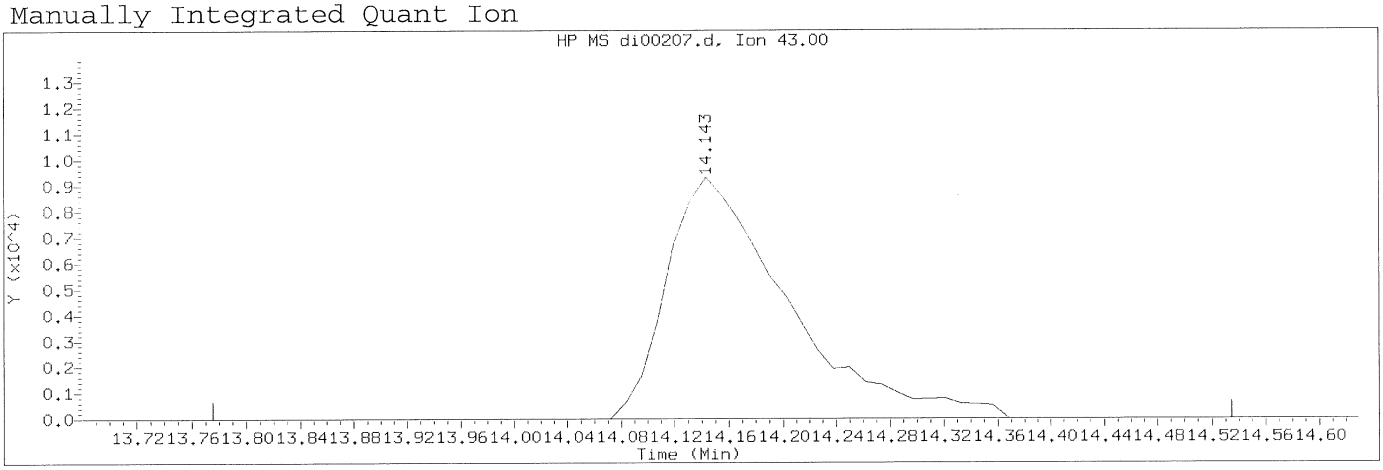
Compound Number : 60
Compound Name : 4-Methyl-2-Pentanone
Expected RT (minutes) : 12.198
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 13:59
Date, time and analyst ID of latest file update: 14-Sep-2015 14:01 jbs01304

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

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1102
Retention Time (minutes): 14.143
Quant Ion : 43.00
Area (flag) : 57938M
Concentration (ppb(v)) : 0.6175
Integration start scan : 1070 Integration stop scan: 1134
Y at integration start : 0 Y at integration end: 0

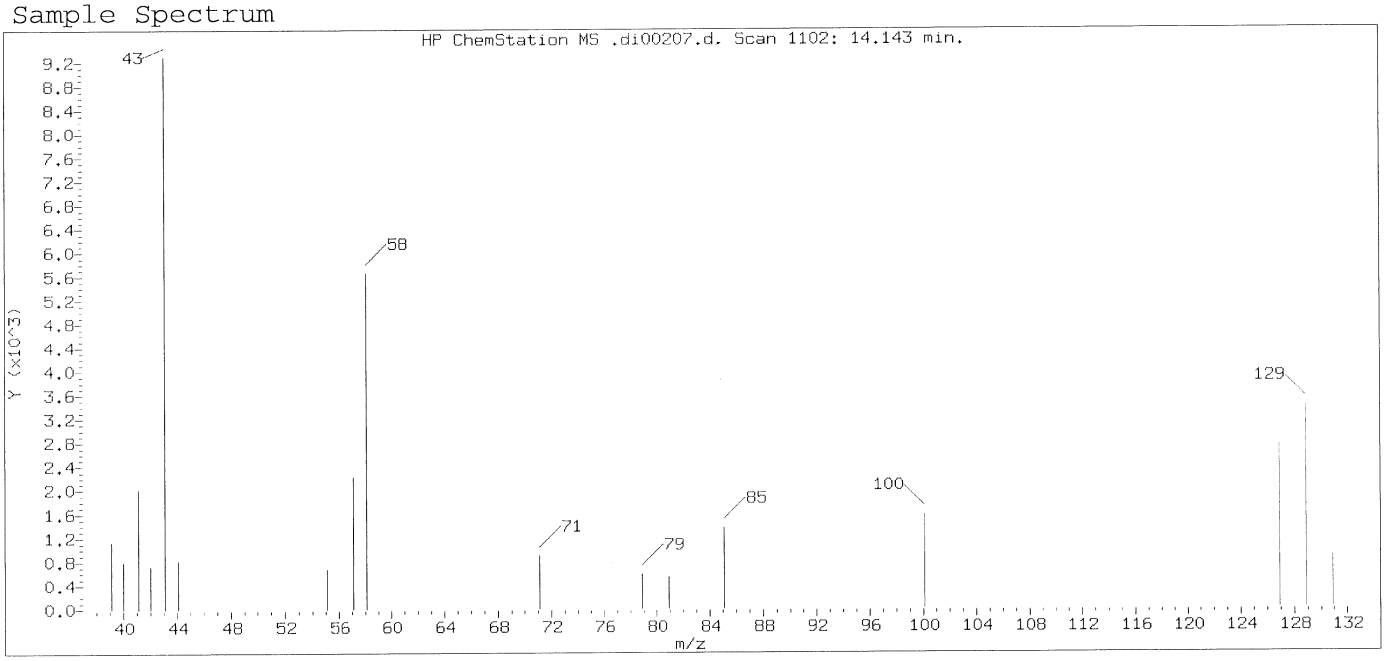
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03. Target 3.5 esignature user ID: jbs01304

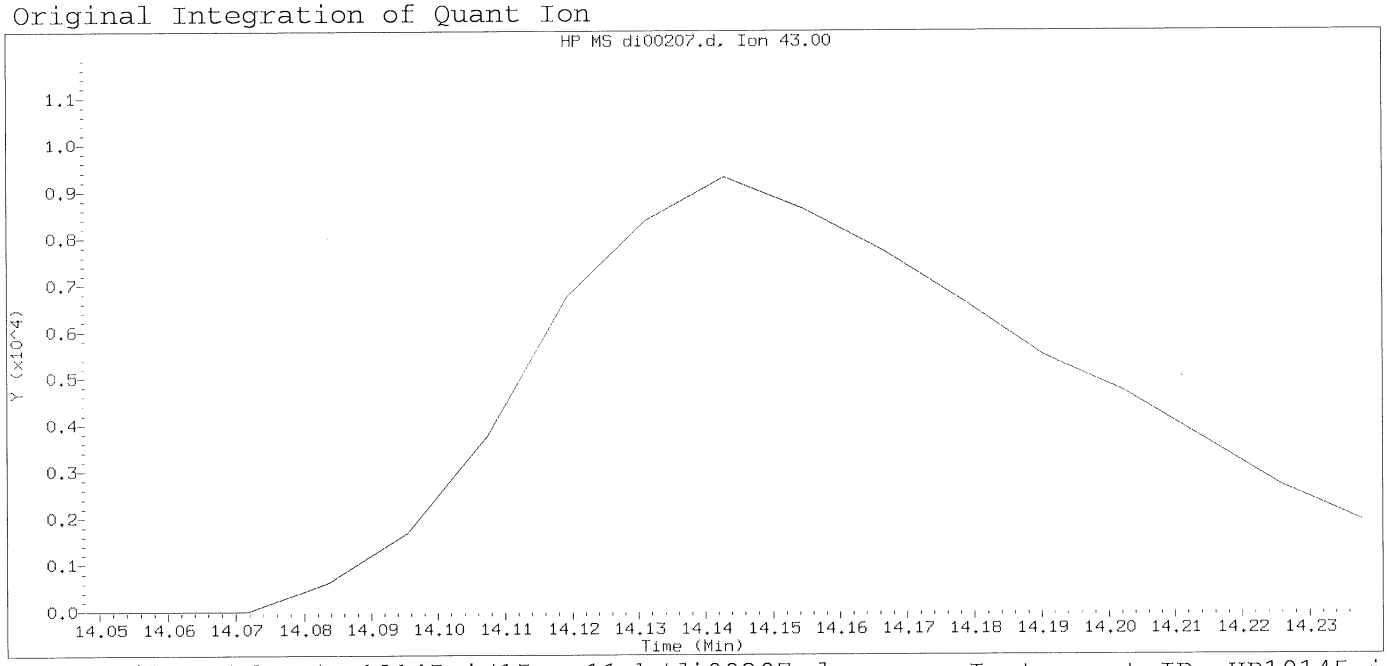
Mark A. Ratcliff
Senior Specialist
SEP 15 2015

GC/MS audit/management approval:_____

Sample Spectrum



Original Integration of Quant Ion



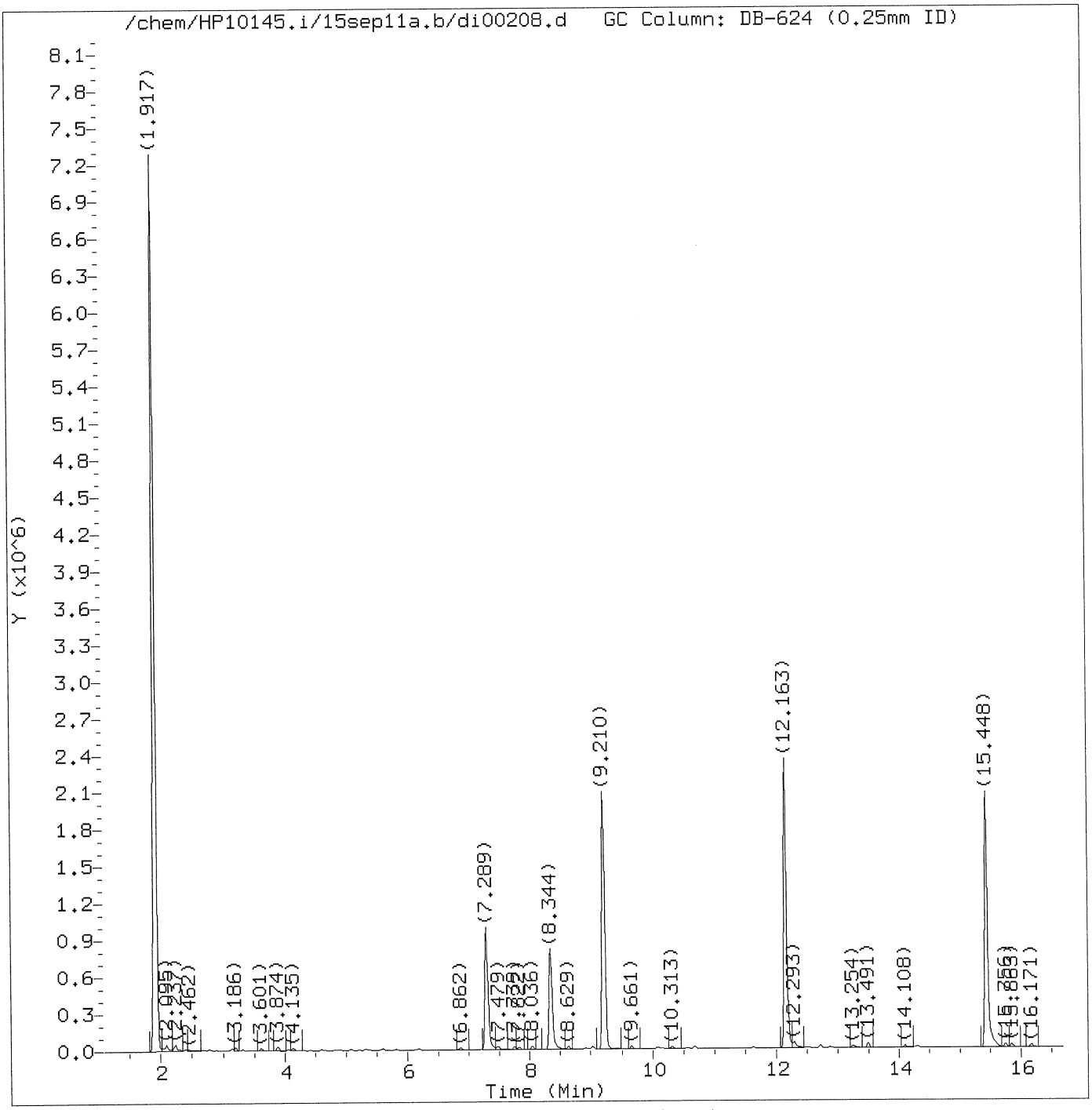
Data File: /chem/HP10145.i/15sep11.b/di00207.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 04:56 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 12-Sep-2015 05:37 Automation

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

Compound Number : 68
Compound Name : 2-Hexanone
Expected RT (minutes) : 14.143
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 09/14/2015 at 14:03.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

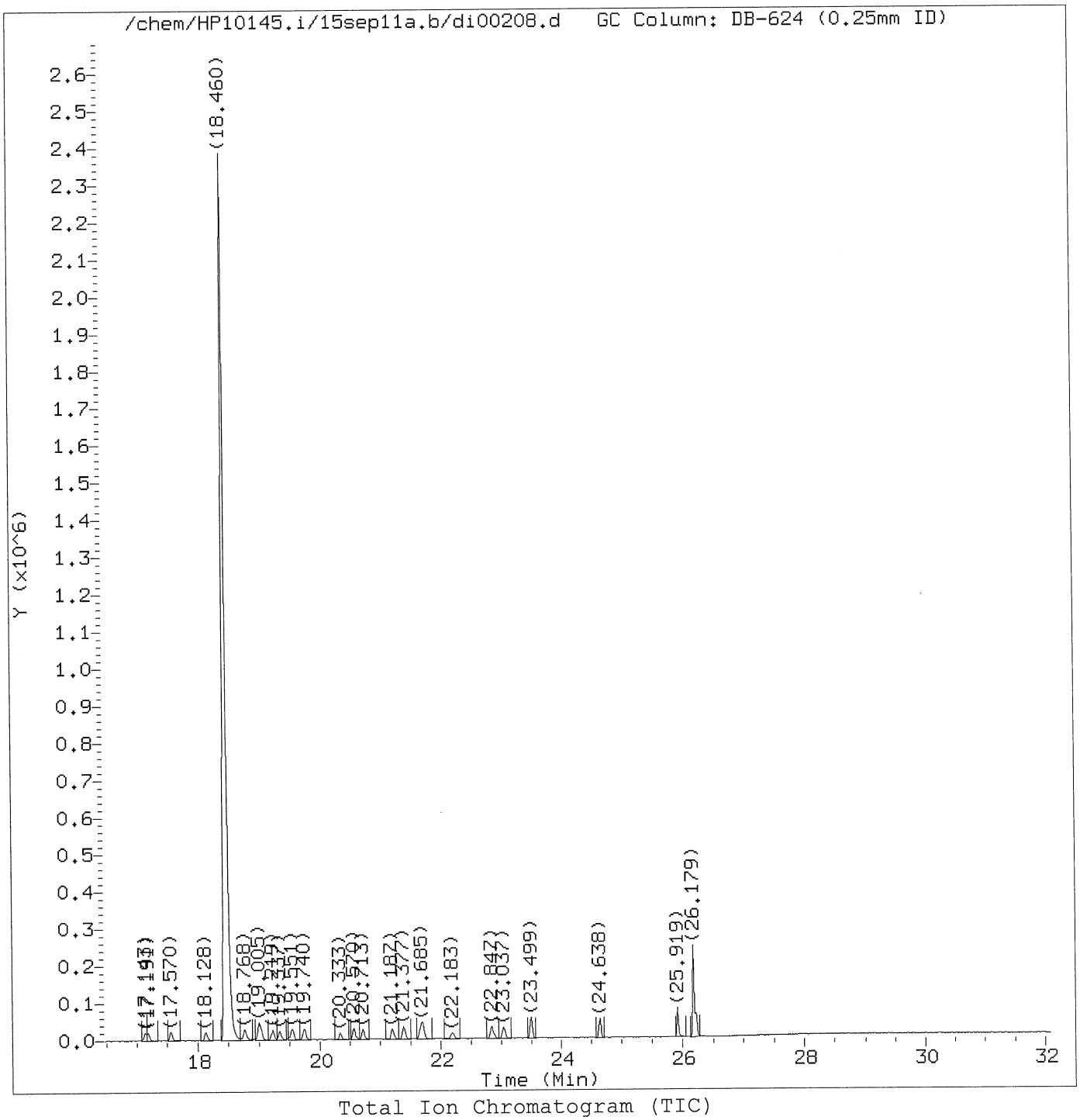
Target Revision 3.5

Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 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)	2.047	41	4863	0.160
2) Dichlorodifluoromethane	(1)	2.095	85	39543	0.175
3) Chlorodifluoromethane	(1)	2.107	51	12529	0.169
4) Freon 114	(1)	2.225	85	29293	0.168
5) Chloromethane	(1)	2.285	52	1497M	0.104
6) Vinyl Chloride	(1)	2.415	62	8693	0.157
7) 1,3-Butadiene	(1)	2.451	54	3581M	0.109
8) Bromomethane	(1)	2.771	94	10391	0.160
9) Chloroethane	(1)	2.901	64	4434	0.144
10) Bromoethene	(1)	3.115	106	9092	0.157
11) Dichlorofluoromethane	(1)	3.138	67	21989	0.165
12) Trichlorofluoromethane	(1)	3.186	101	35045	0.164
13) Pentane	(1)	3.304	43	10459	0.162
15) Freon123a	(1)	3.601	67	19632	0.175
17) 1,1-Dichloroethene	(1)	3.862	61	13689	0.153
18) Freon 113	(1)	3.885	103	13816	0.153
20) Methyl Iodide	(1)	4.051	142	19785	0.157
21) Carbon Disulfide	(1)	4.135	76	55246	0.300
19) Acetone	(1)	4.218	43	12857M	0.200
24) 3-Chloropropene	(1)	4.395	76	3531M	0.136
23) Acetonitrile	(1)	4.407	40	6406	0.495
25) Methylene Chloride	(1)	4.609	84	8579	0.175
22) Isopropanol	(1)	4.882	45	13305M	0.174
28) trans-1,2-Dichloroethene	(1)	5.071	61	10576	0.149
27) Acrylonitrile	(1)	5.226	53	3585M	0.128
29) Methyl t-Butyl Ether	(1)	5.320	73	24206M	0.153
30) Hexane	(1)	5.593	57	10076	0.136
26) tert-Butyl Alcohol	(1)	5.629	59	14661M	0.127
31) 1,1-Dichloroethane	(1)	5.807	63	15674	0.148
33) Di-Isopropyl Ether	(1)	6.174	45	15088M	0.118
36) 1,2-Dichloroethene (total)	(1)		61	20749	0.286
34) Ethyl Tert-Butyl Ether	(1)	6.838	59	18891M	0.110
35) cis-1,2-Dichloroethene	(1)	6.874	61	10173	0.137
37) 2-Butanone	(1)	7.230	72	2134M	0.074
39) Methyl Acrylate	(1)	7.289	55	9105M	0.122
40)*Bromochloromethane	(1)	7.289	130	695321	10.000
38) Ethyl Acetate	(1)	7.301	70	1273M	0.076
42) Chloroform	(1)	7.479	83	22977	0.154

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

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
43) 1,1,1-Trichloroethane	(1)	7.739	97	26099	0.149
41) Tetrahydrofuran	(1)	7.822	42	6414M	0.162
44) Cyclohexane	(1)	7.822	56	9645	0.125
45) Carbon Tetrachloride	(1)	8.036	117	29306	0.160
46) Benzene	(2)	8.427	78	30876	0.153
47) 1,2-Dichloroethane	(2)	8.487	62	14792	0.154
48) Isooctane	(2)	8.629	57	32384	0.126
49) Tert-Amyl Methyl Ether	(2)	8.925	73	21528M	0.111
50) Heptane	(2)	9.032	43	10549	0.146
51)*1,4-Difluorobenzene	(2)	9.210	114	2823935	10.000
52) Trichloroethene	(2)	9.661	130	13184	0.149
54) 1,2-Dichloropropane	(2)	10.087	63	8652	0.140
53) Ethyl Acrylate	(2)	10.147	55	10850M	0.111
55) Dibromomethane	(2)	10.313	174	14107	0.156
57) Methyl Methacrylate	(2)	10.562	69	5711	0.088
58) Bromodichloromethane	(2)	10.680	83	24545	0.148
56) 1,4-Dioxane	(2)	11.214	88	1989M	0.044
59) cis-1,3-Dichloropropene	(2)	11.641	75	11060	0.109
60) 4-Methyl-2-Pentanone	(2)	12.258	43	16472M	0.156
61) Toluene	(3)	12.305	91	40137	0.161
64) 1,3-Dichloropropene (total)	(3)		75	24217	0.234
62) Octane	(3)	12.720	43	11156	0.114
63) trans-1,3-Dichloropropene	(3)	12.886	75	13157	0.124
66) 1,1,2-Trichloroethane	(3)	13.254	97	12672	0.148
65) Ethyl Methacrylate	(3)	13.313	69	9561	0.087
67) Tetrachloroethene	(3)	13.491	166	22068	0.147
69) Dibromochloromethane	(3)	14.108	127	16941	0.135
68) 2-Hexanone	(3)	14.191	43	15596M	0.163
70) 1,2-Dibromoethane	(3)	14.297	107	19786	0.149
71)*Chlorobenzene-d5	(3)	15.448	117	2421665	10.000
72) Chlorobenzene	(3)	15.507	112	36434	0.182
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	15613	0.140
74) Ethylbenzene	(3)	15.863	91	46512	0.143
75) m/p-Xylene	(3)	16.171	91	36598	0.130
77) Xylene (total)	(3)		91	69466	0.253
76) o-Xylene	(3)	17.131	91	32868	0.124
78) Styrene	(3)	17.191	104	23817	0.122
79) Bromoform	(3)	17.570	173	26853	0.158

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

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

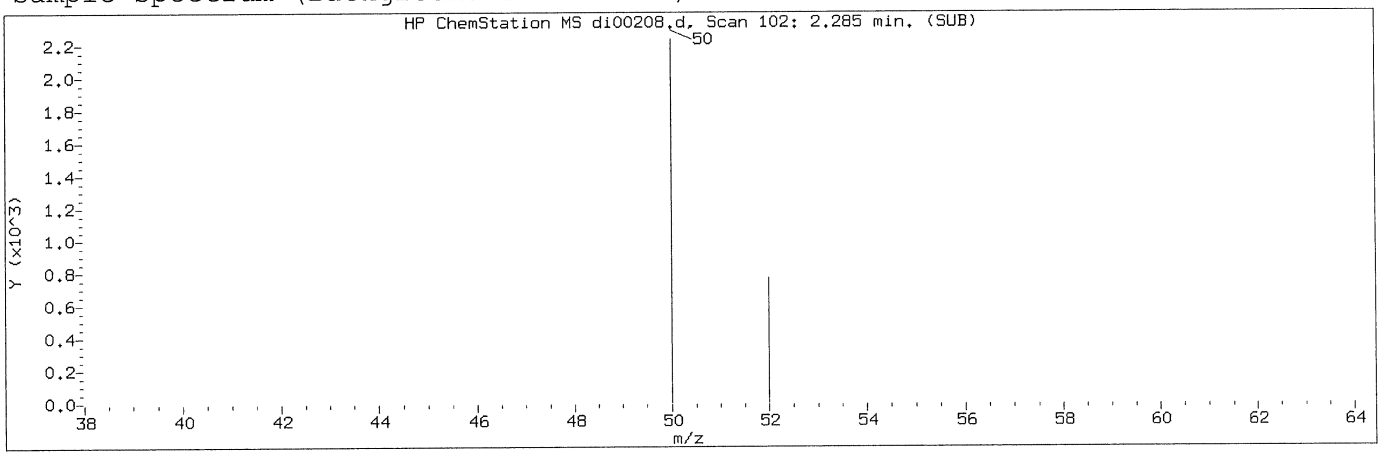
Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

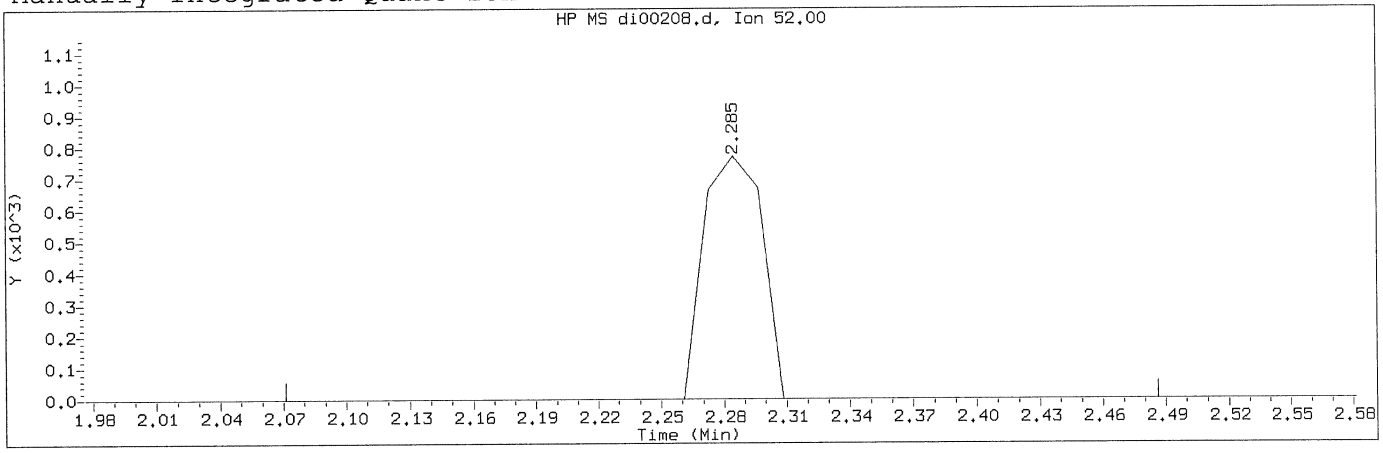
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
80) Cumene	(3)	18.128	105	37927	0.100
81) Bromobenzene	(3)	18.768	156	18523	0.157
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	35891	0.186
83) 1,2,3-Trichloropropane	(3)	19.029	110	9790	0.155
84) n-Propylbenzene	(3)	19.219	120	10353	0.103
85) 2-Chlorotoluene	(3)	19.337	126	10783	0.129
86) 4-Ethyltoluene	(3)	19.551	105	47264	0.125
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	42124	0.125
88) Alpha Methyl Styrene	(3)	20.333	118	14504	0.103
89) tert-Butylbenzene	(3)	20.570	119	35757	0.110
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	42646	0.128
91) sec-Butylbenzene	(3)	21.199	105	53385	0.116
92) 1,3-Dichlorobenzene	(3)	21.377	146	40547	0.195
93) 1,4-Dichlorobenzene	(3)	21.673	146	40761	0.195
94) p-Isopropyltoluene	(3)	21.709	119	43622	0.110
95) Benzyl Chloride	(3)	22.183	91	37974	0.141
96) 1,2-Dichlorobenzene	(3)	22.847	146	37569	0.189
97) n-Butylbenzene	(3)	23.037	91	45767	0.129
98) Hexachloroethane	(3)	23.488	117	19751	0.174
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	23857	0.213
100) 1,2,4-Trichlorobenzene	(3)	25.919	180	39069	0.272
101) Hexachlorobutadiene	(3)	26.179	225	62553	0.290
102) Naphthalene	(3)	26.215	128	73233	0.294

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

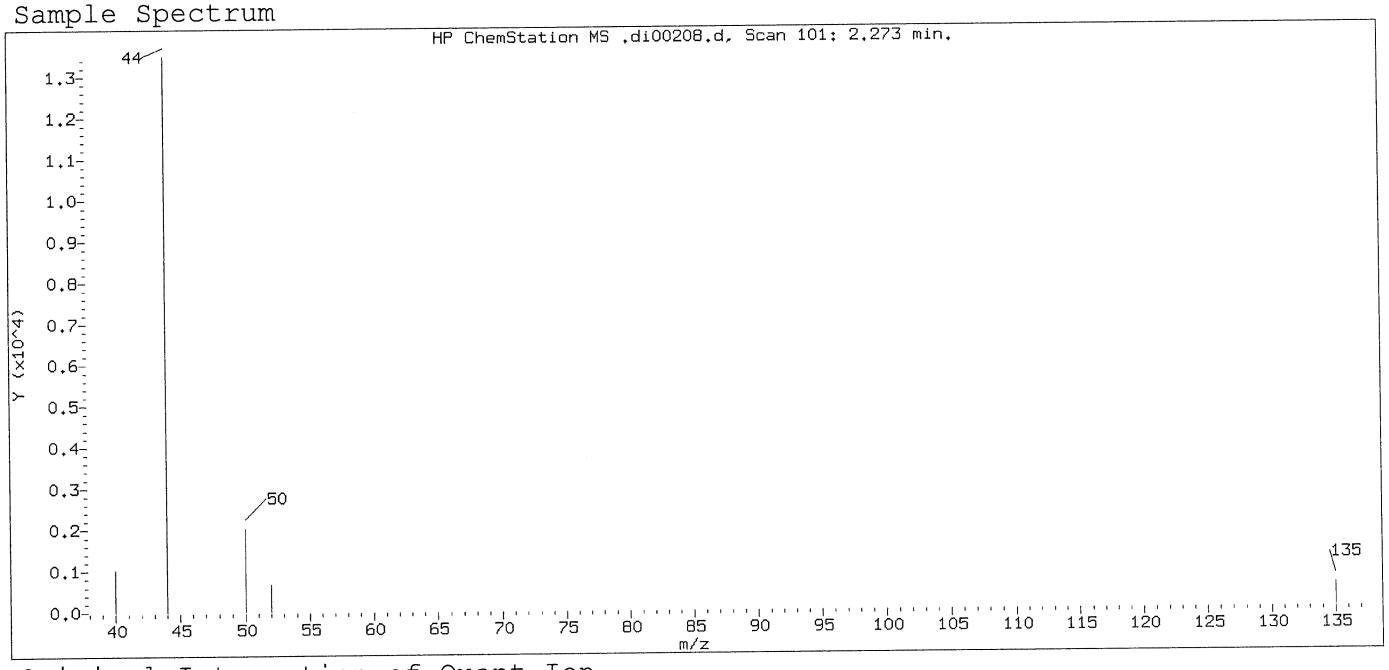
Compound Number	: 5		
Compound Name	: Chloromethane		
Scan Number	: 102		
Retention Time (minutes)	: 2.285		
Quant Ion	: 52.00		
Area (flag)	: 1497M		
Concentration (ppb(v))	: 0.1043		
Integration start scan	: 83	Integration stop scan:	118
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

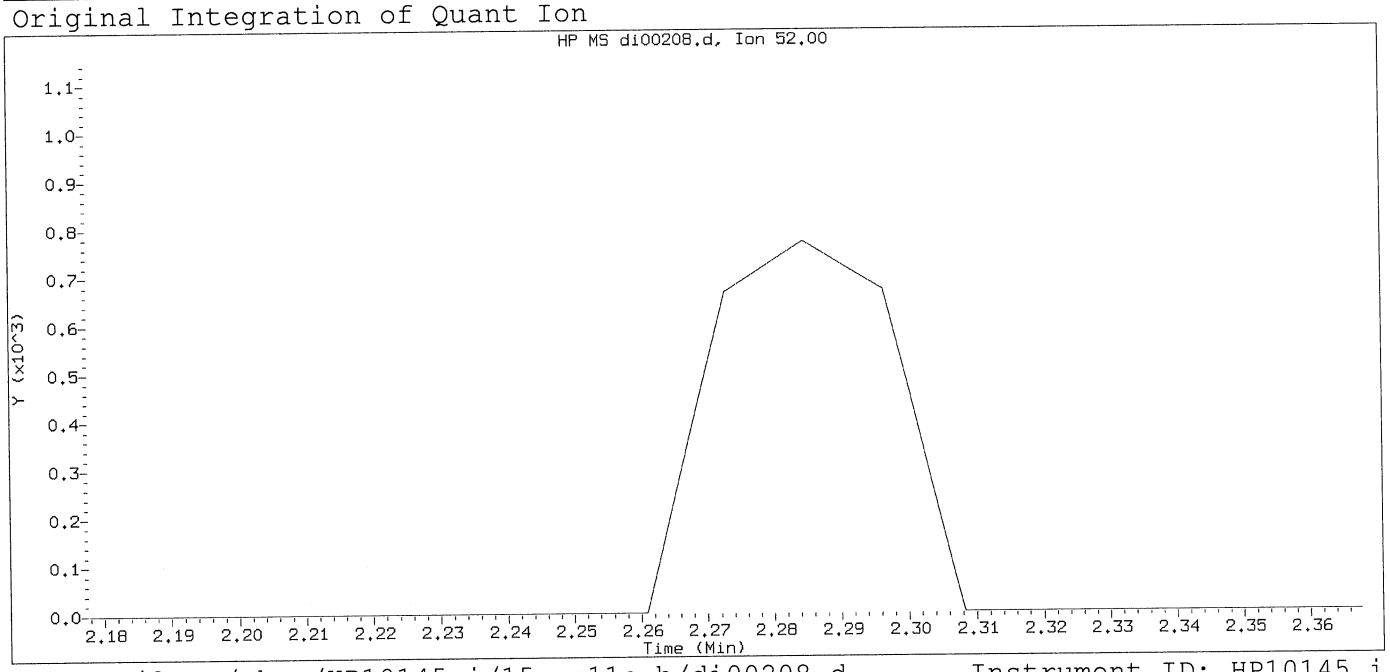
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52. Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmn 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

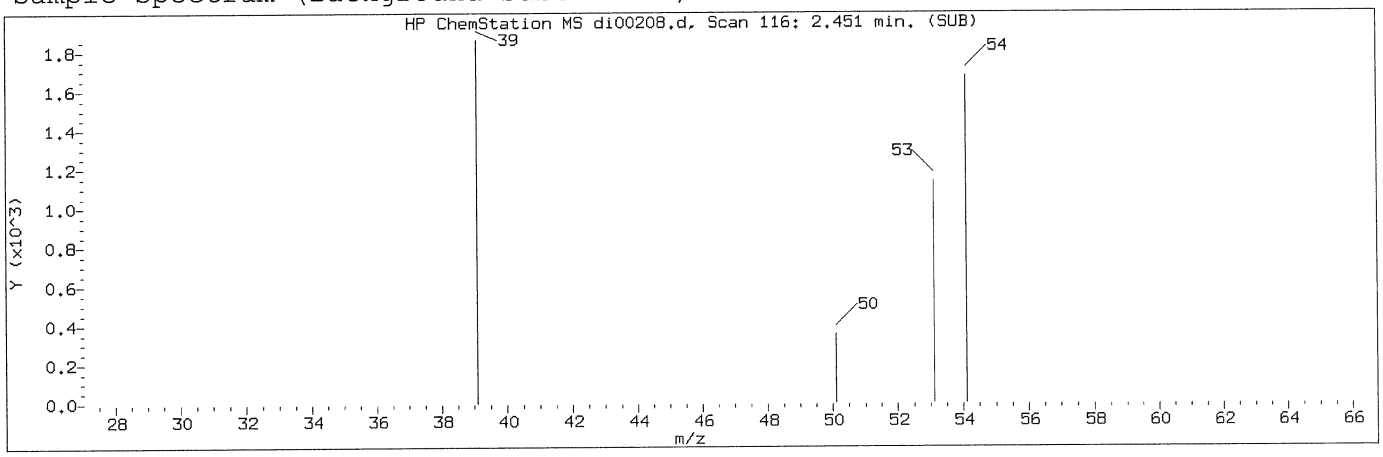
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

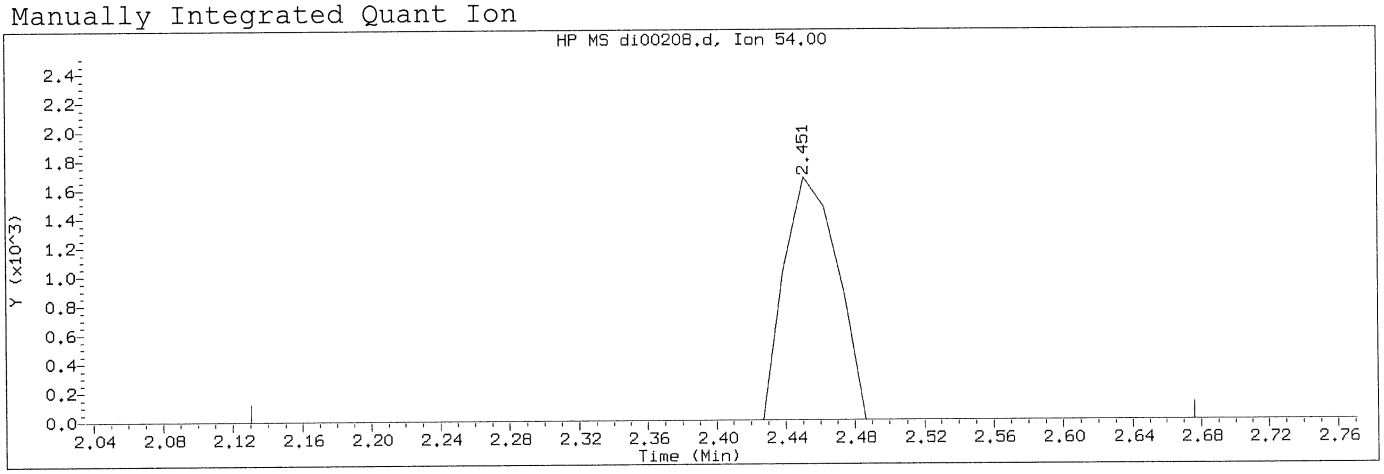
Compound Number : 5
Compound Name : Chloromethane
Expected RT (minutes) : 2.272
Quant Ion : 52.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

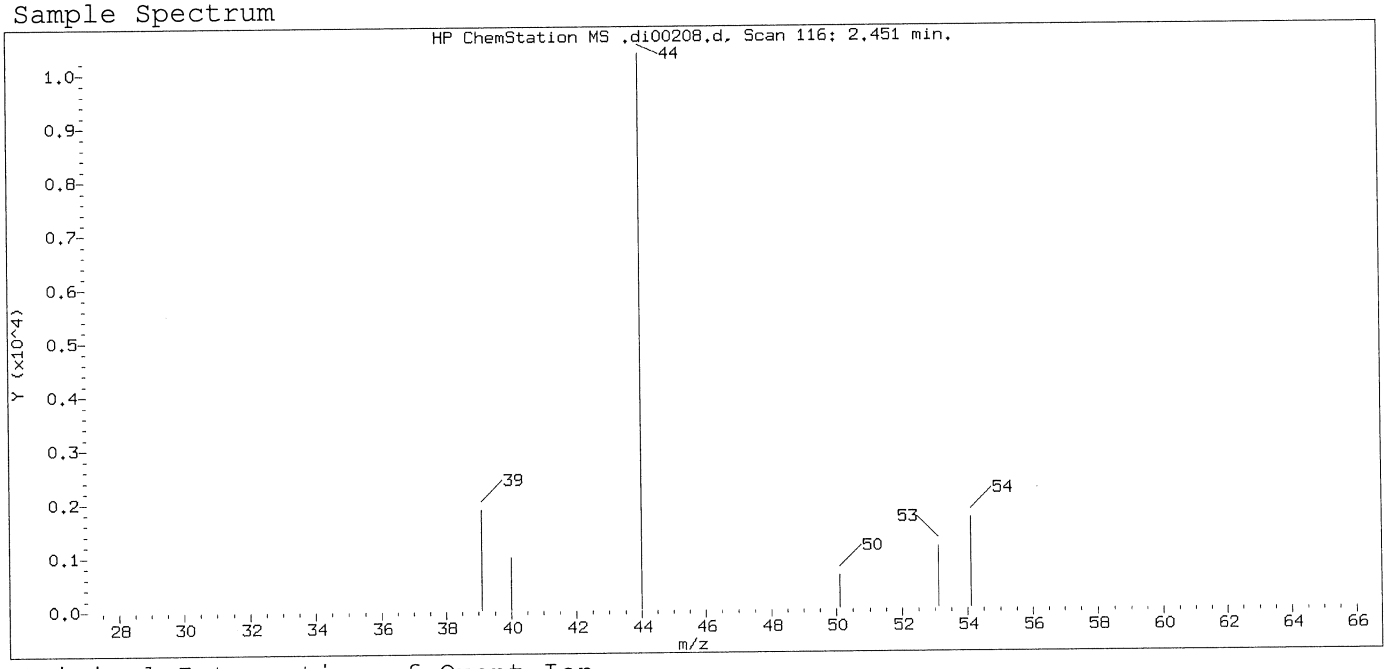
Compound Number	: 7		
Compound Name	: 1,3-Butadiene		
Scan Number	: 116		
Retention Time (minutes)	: 2.451		
Quant Ion	: 54.00		
Area (flag)	: 3581M		
Concentration (ppb(v))	: 0.1085		
Integration start scan	: 88	Integration stop scan:	134
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

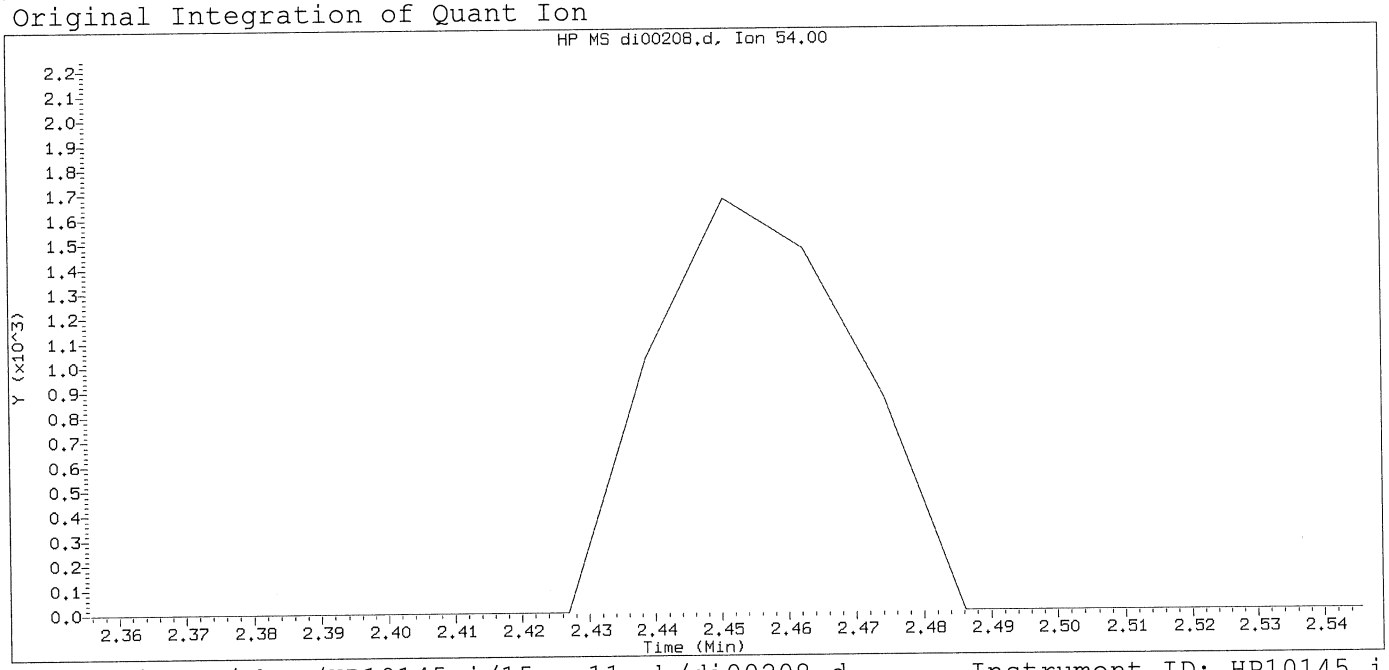
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMR 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

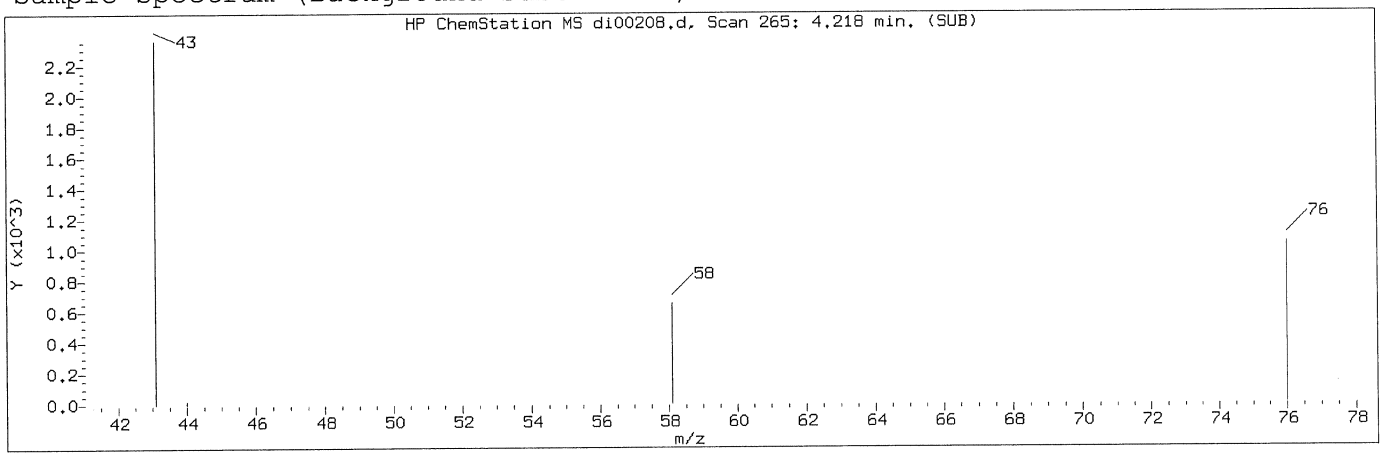
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

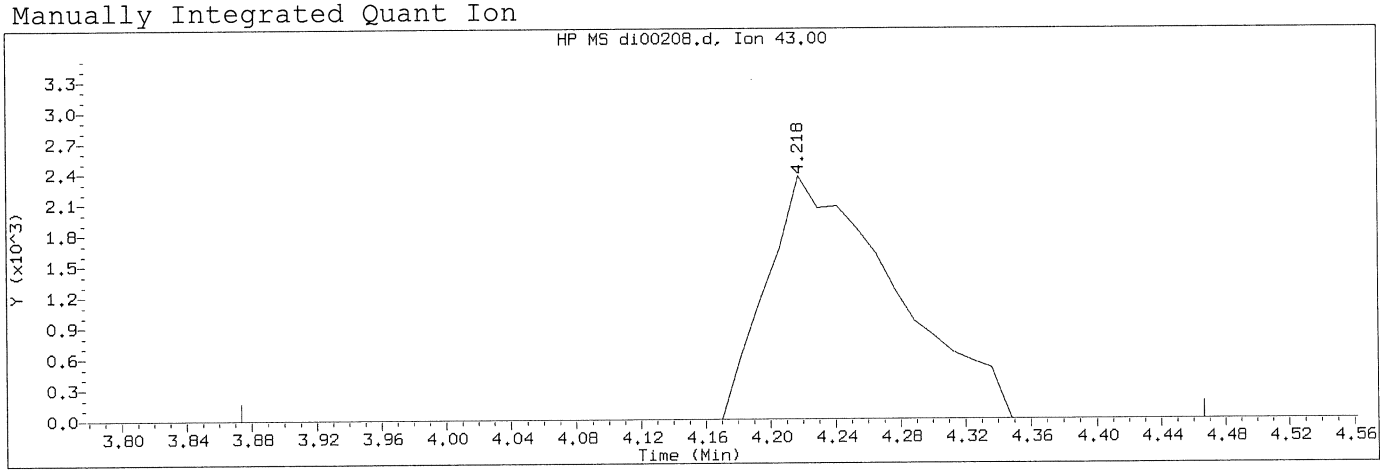
Compound Number : 7
Compound Name : 1,3-Butadiene
Expected RT (minutes) : 2.450
Quant Ion : 54.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

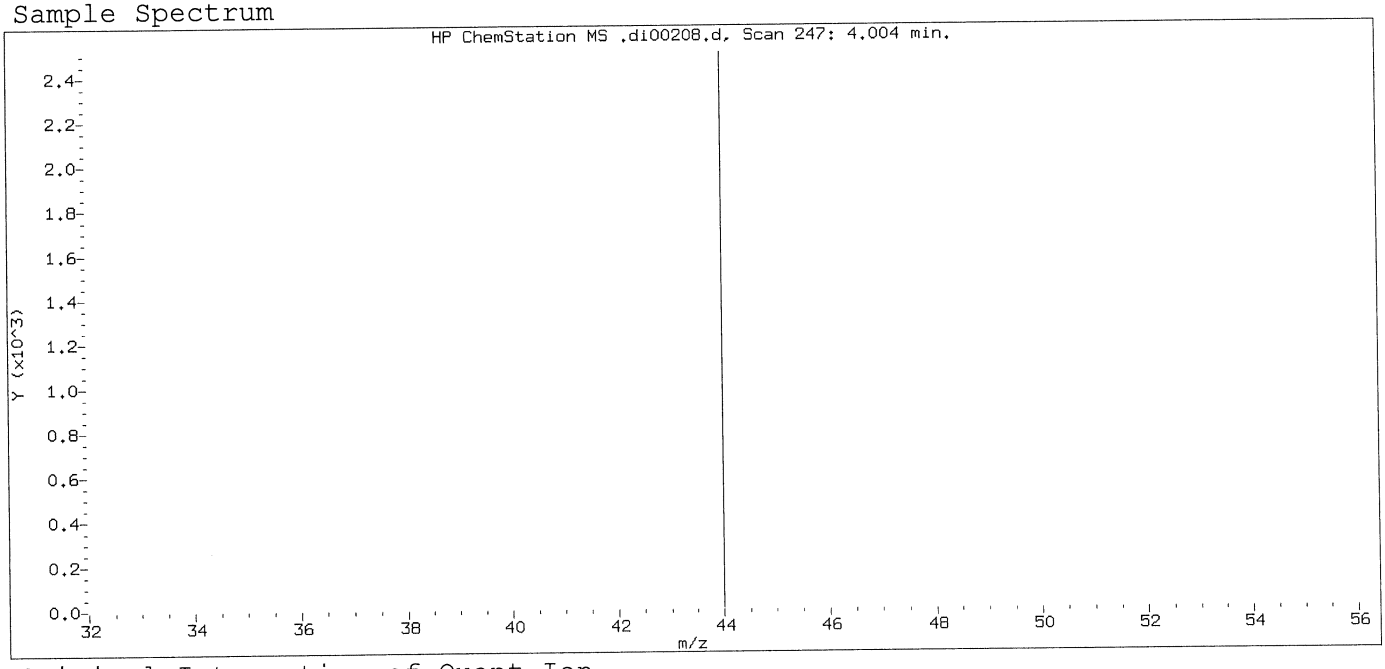
Compound Number	: 19		
Compound Name	: Acetone		
Scan Number	: 265		
Retention Time (minutes)	: 4.218		
Quant Ion	: 43.00		
Area (flag)	: 12857M		
Concentration (ppb(v))	: 0.1997		
Integration start scan	: 235	Integration stop scan:	285
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

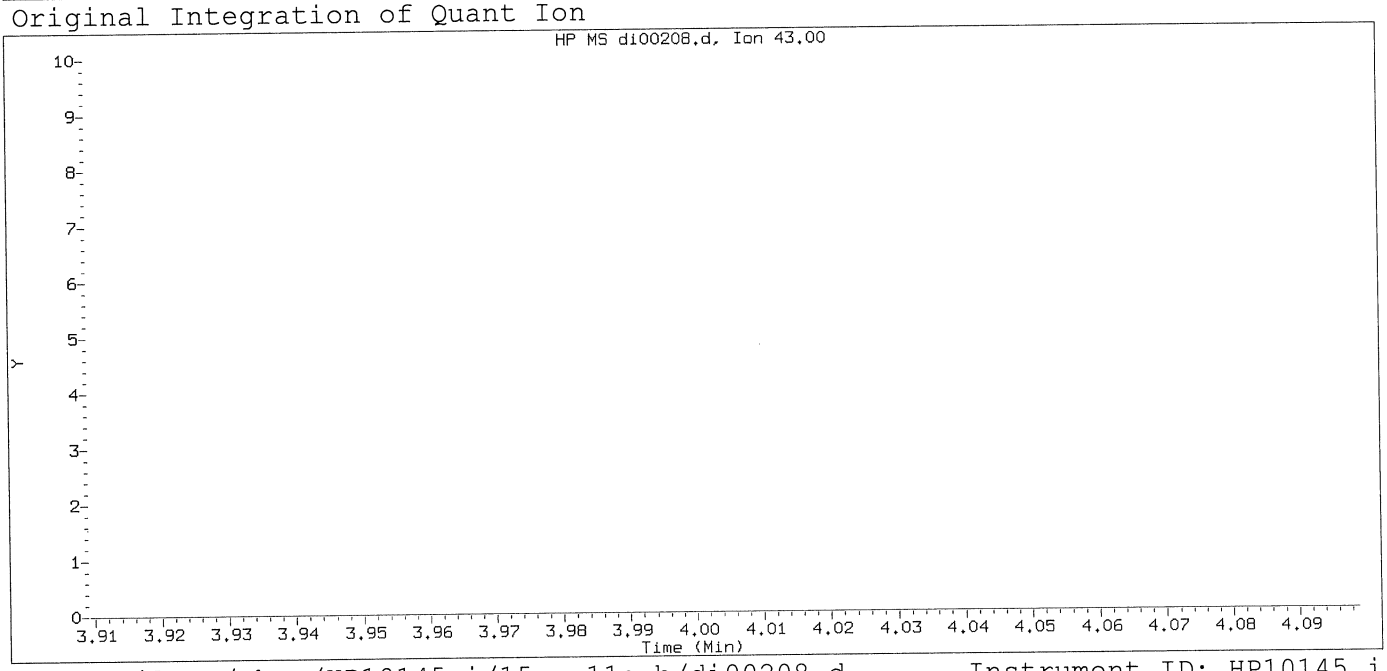
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: _____ 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

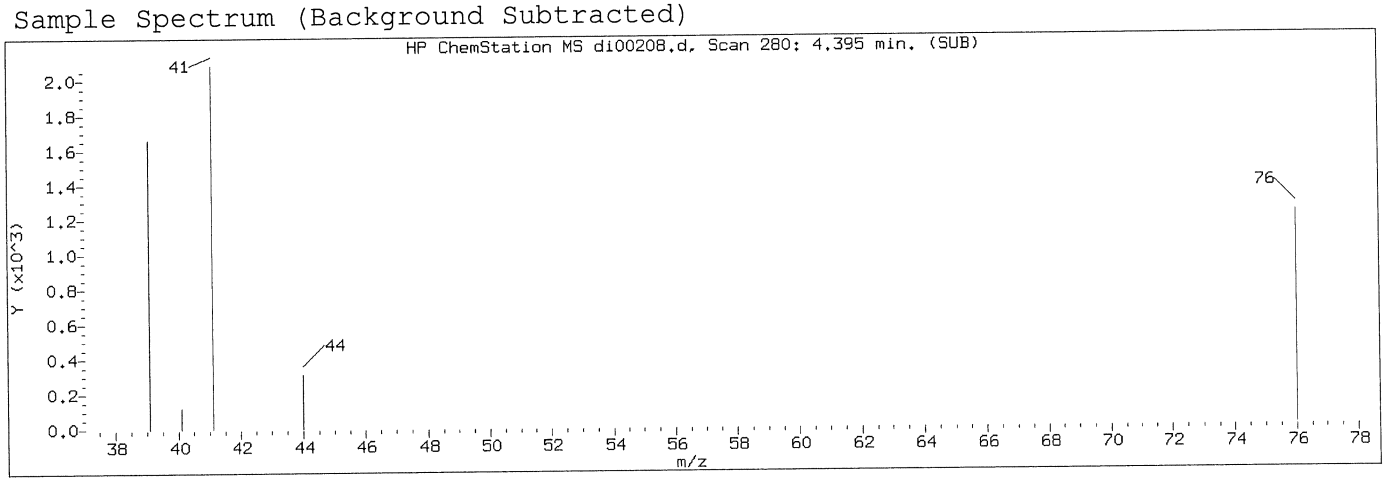
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

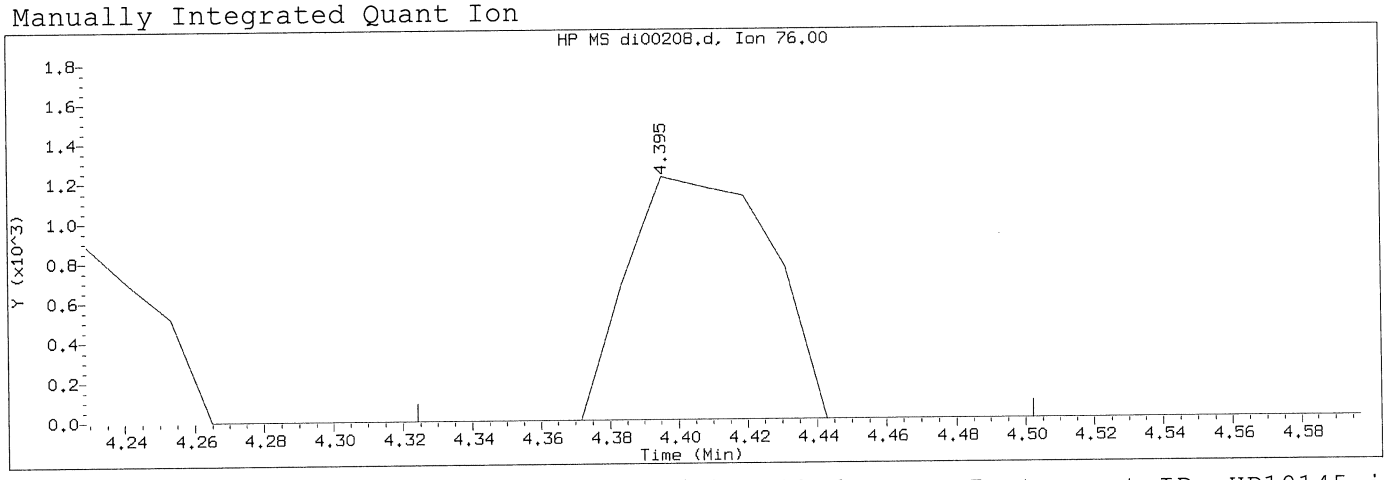
Compound Number : 19
Compound Name : Acetone
Expected RT (minutes) : 4.004
Quant Ion : 43.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

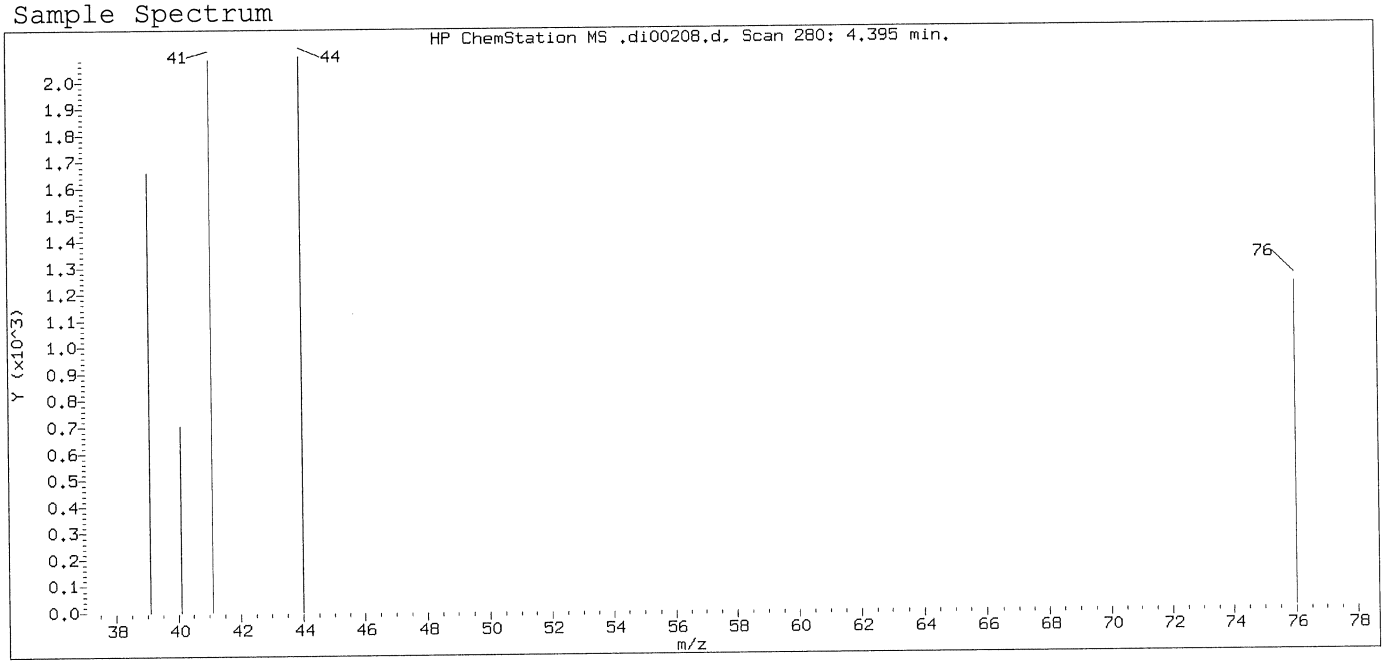
Compound Number	: 24		
Compound Name	: 3-Chloropropene		
Scan Number	: 280		
Retention Time (minutes)	: 4.395		
Quant Ion	: 76.00		
Area (flag)	: 3531M		
Concentration (ppb(v))	: 0.1359		
Integration start scan	: 273	Integration stop scan:	288
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

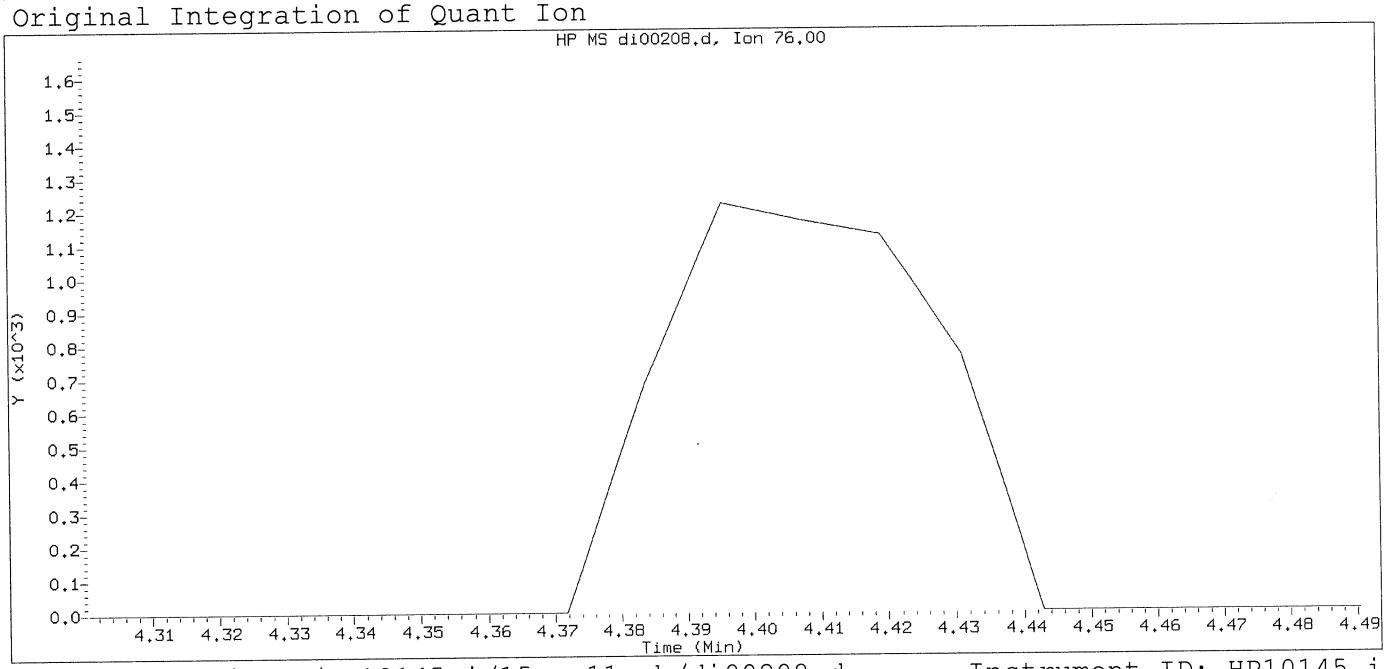
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmy 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

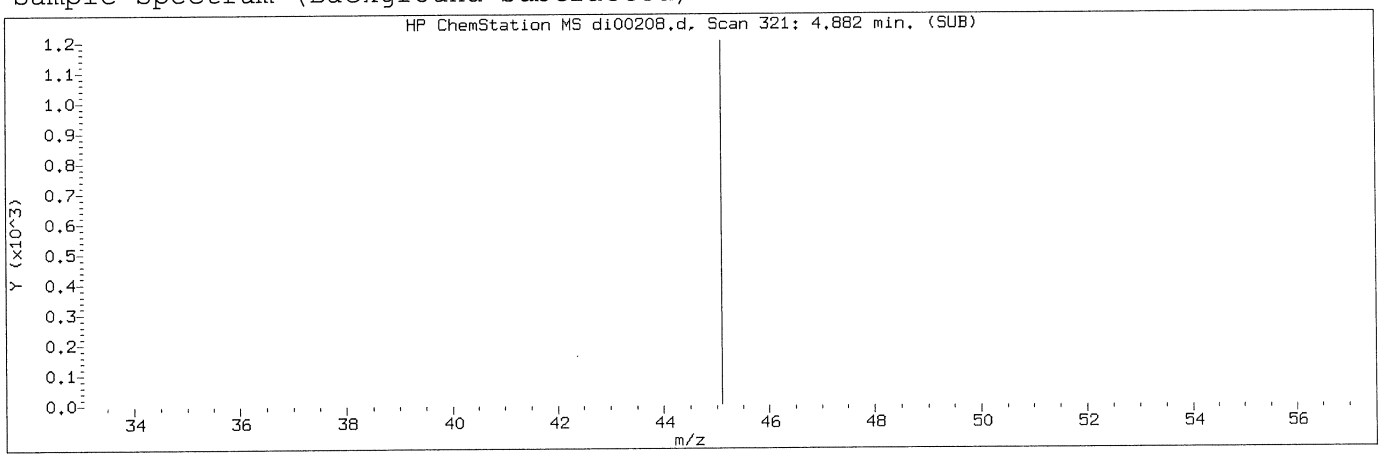
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

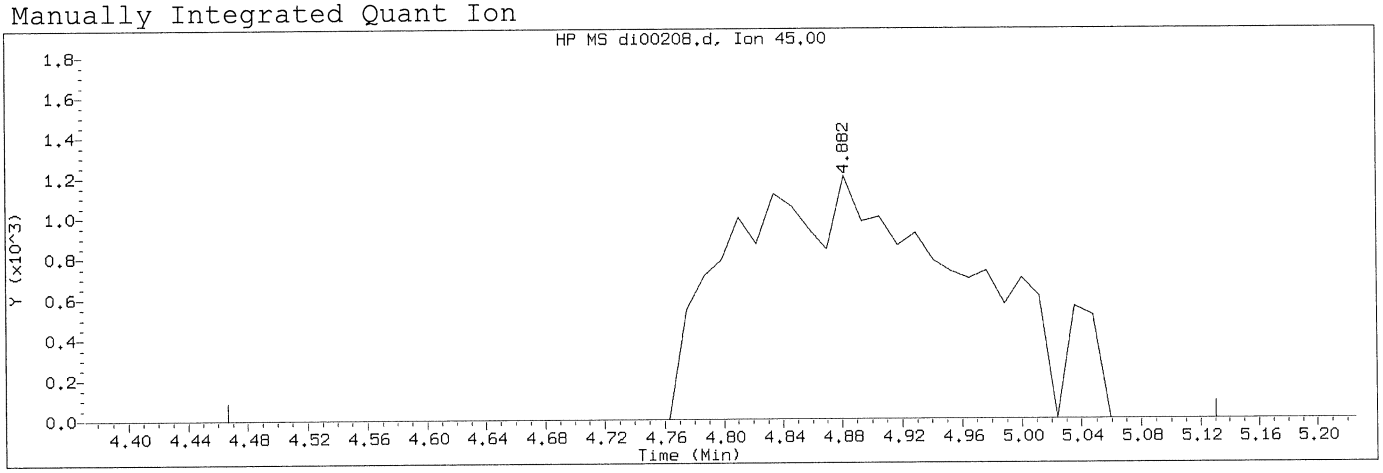
Compound Number : 24
Compound Name : 3-Chloropropene
Expected RT (minutes) : 4.395
Quant Ion : 76.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

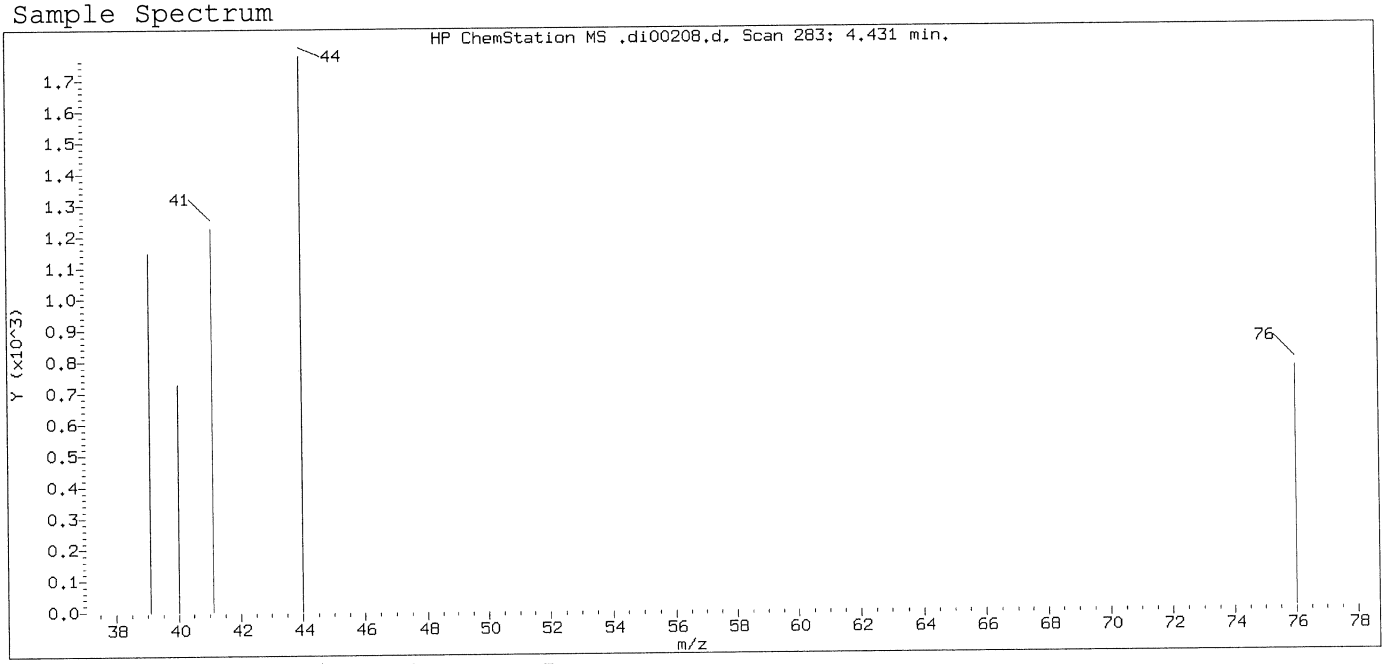
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 321		
Retention Time (minutes)	: 4.882		
Quant Ion	: 45.00		
Area (flag)	: 13305M		
Concentration (ppb(v))	: 0.1739		
Integration start scan	: 285	Integration stop scan:	341
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

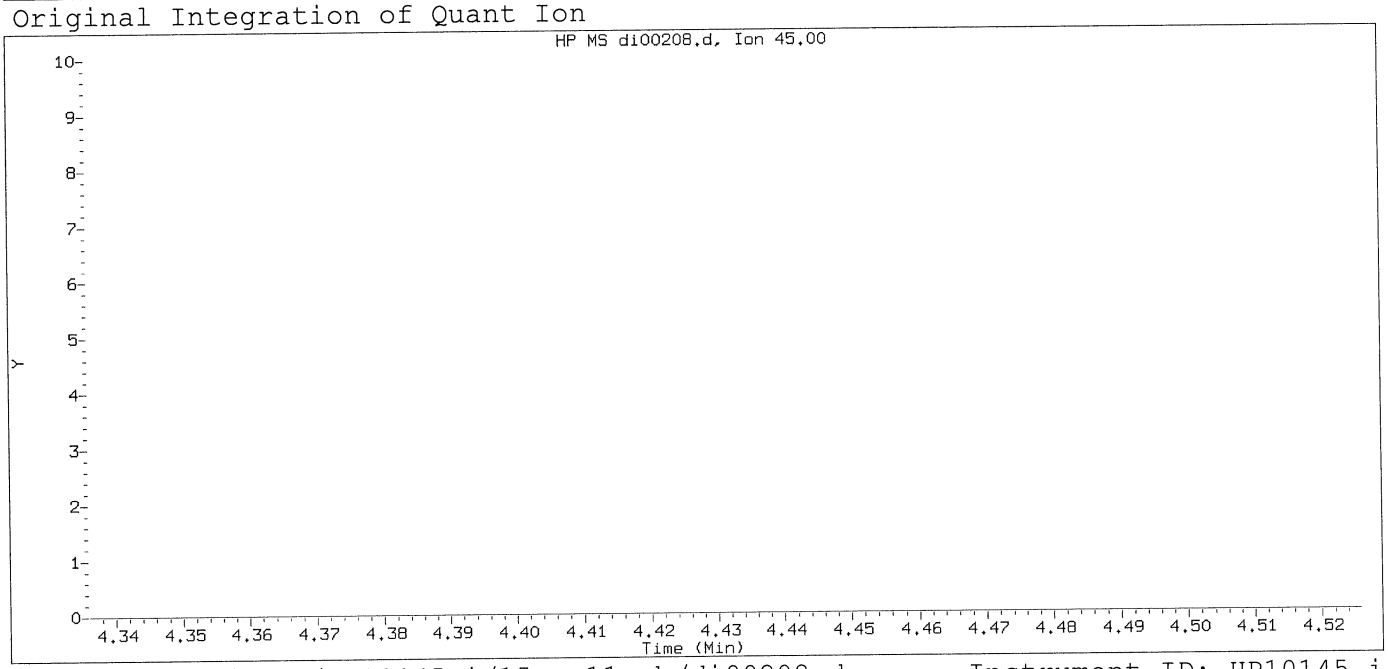
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

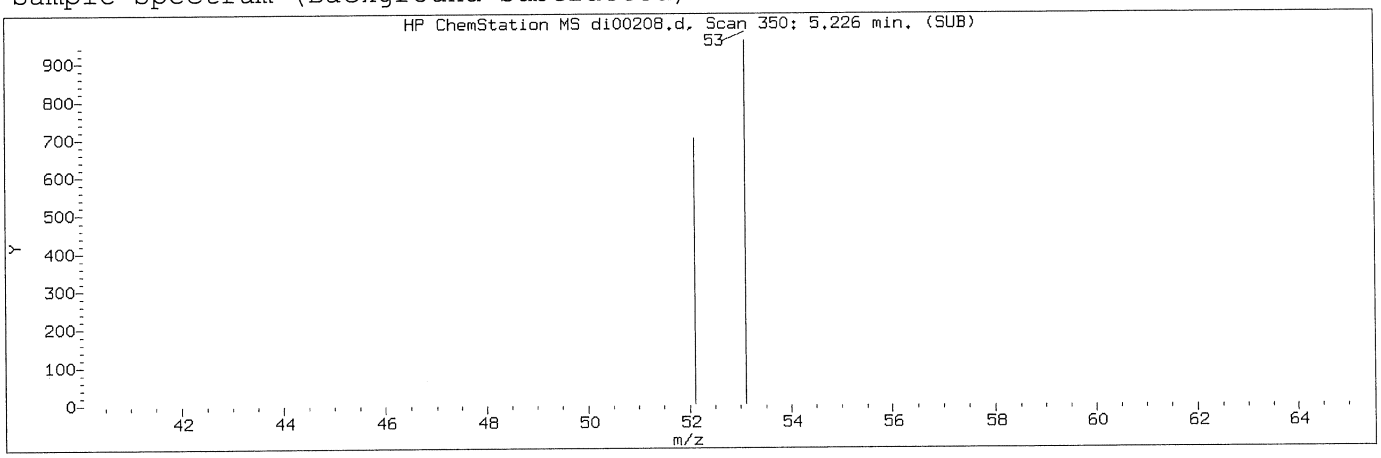
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

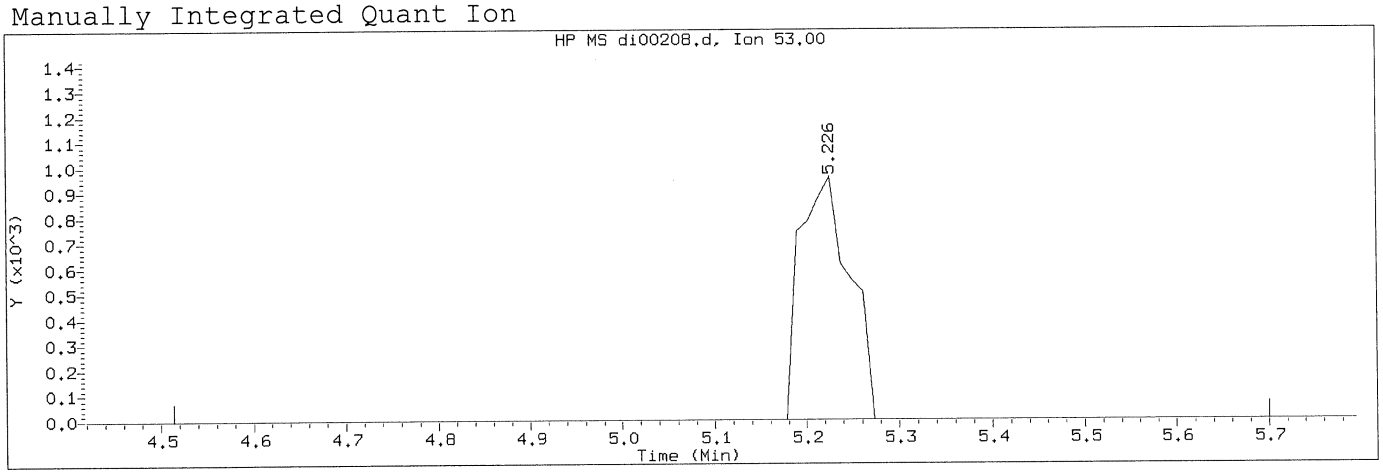
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.431
Quant Ion : 45.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

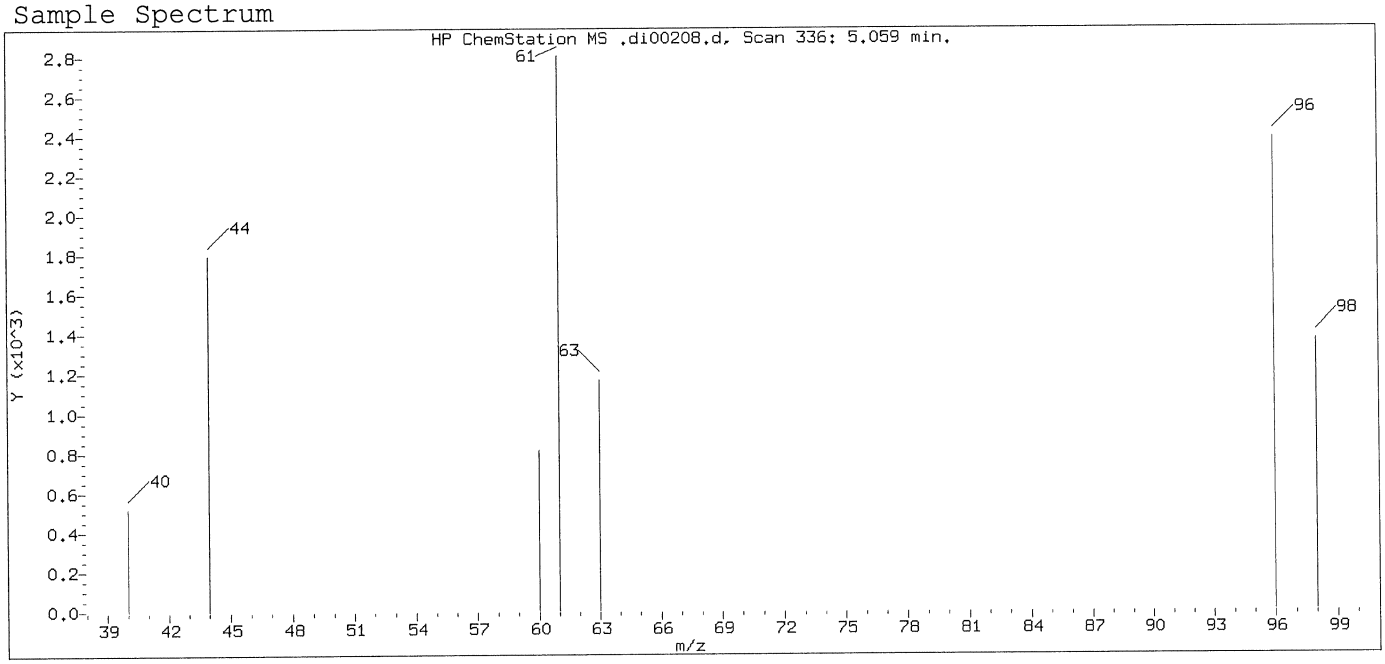
Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 350		
Retention Time (minutes)	: 5.226		
Quant Ion	: 53.00		
Area (flag)	: 3585M		
Concentration (ppb(v))	: 0.1278		
Integration start scan	: 289	Integration stop scan:	389
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

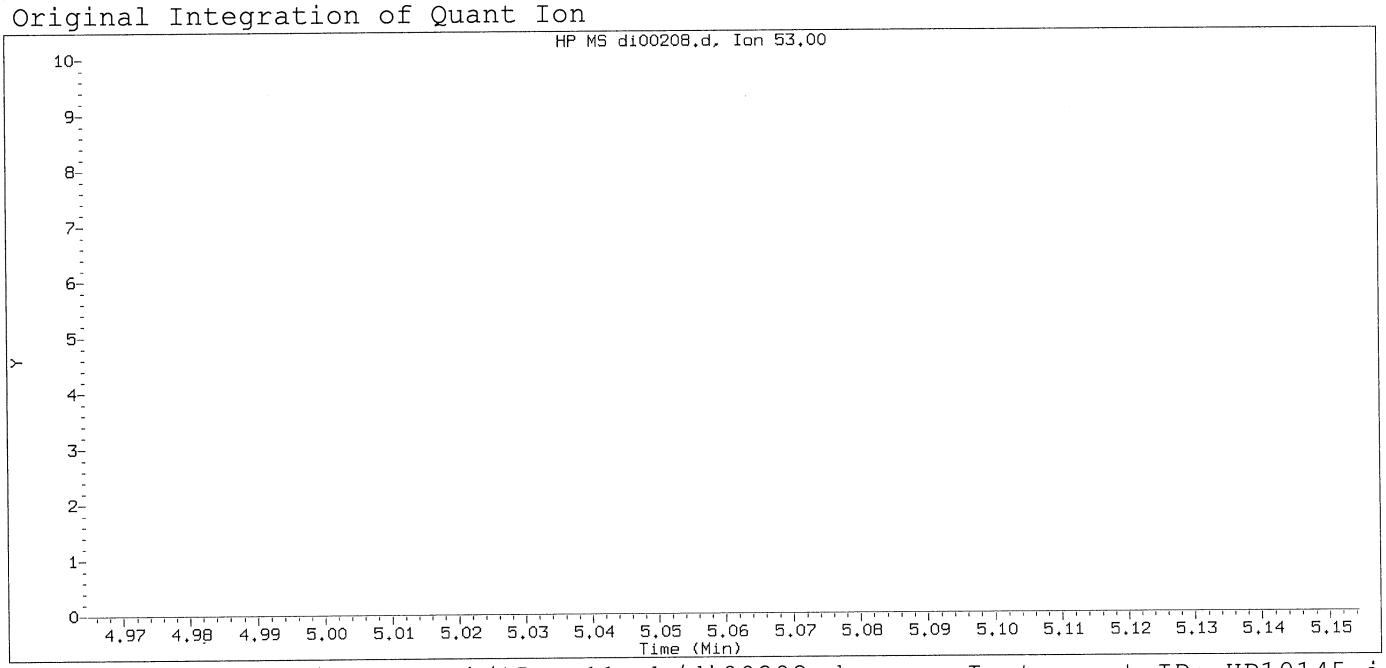
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: GMY 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

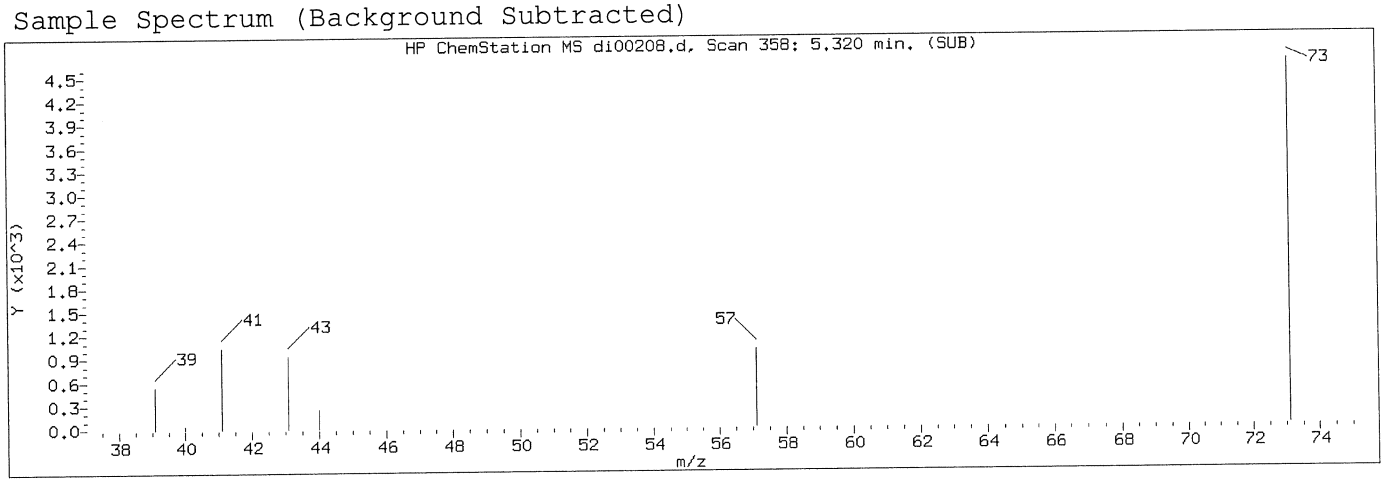
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

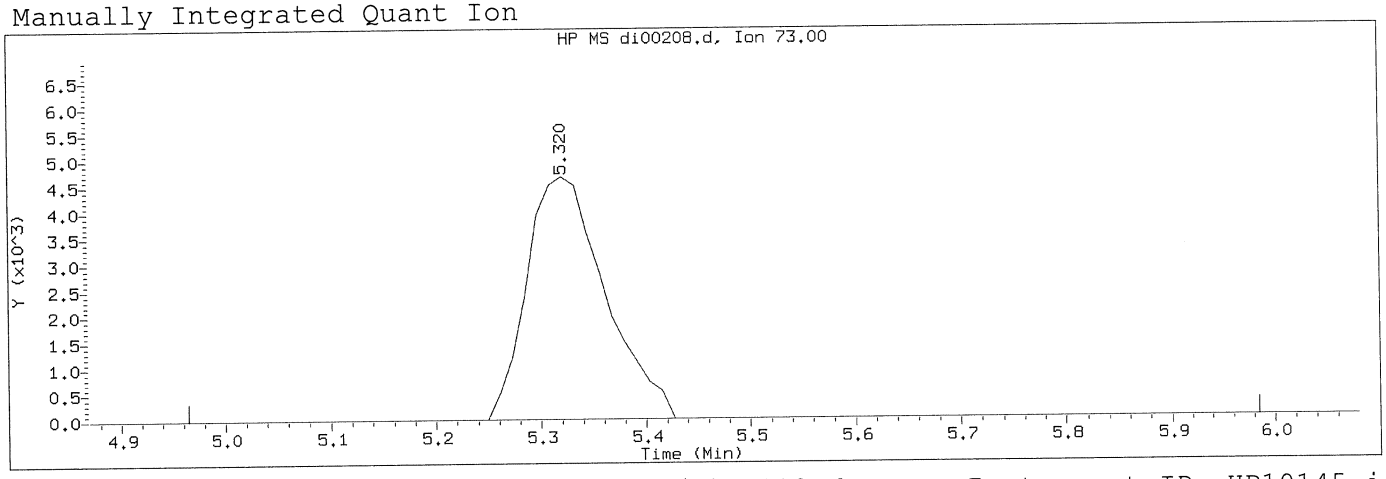
Compound Number : 27
Compound Name : Acrylonitrile
Expected RT (minutes) : 5.059
Quant Ion : 53.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

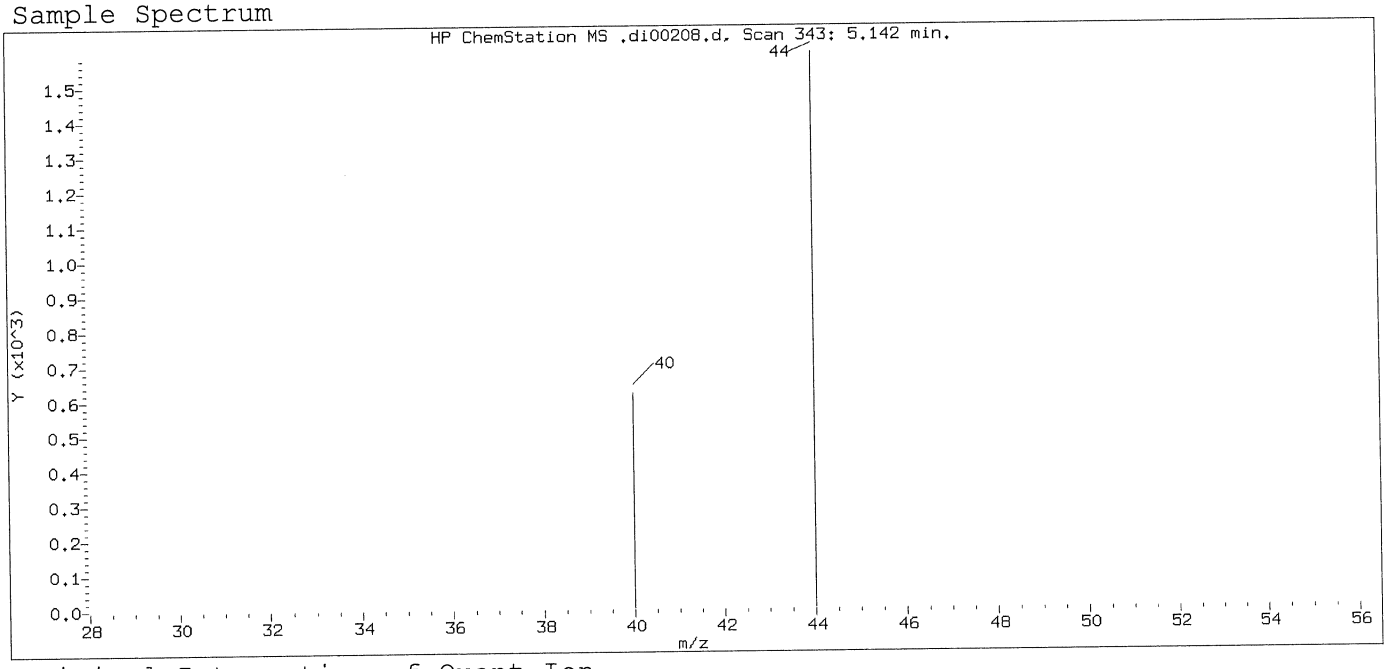
Compound Number	: 29		
Compound Name	: Methyl t-Butyl Ether		
Scan Number	: 358		
Retention Time (minutes)	: 5.320		
Quant Ion	: 73.00		
Area (flag)	: 24206M		
Concentration (ppb(v))	: 0.1529		
Integration start scan	: 327	Integration stop scan:	413
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

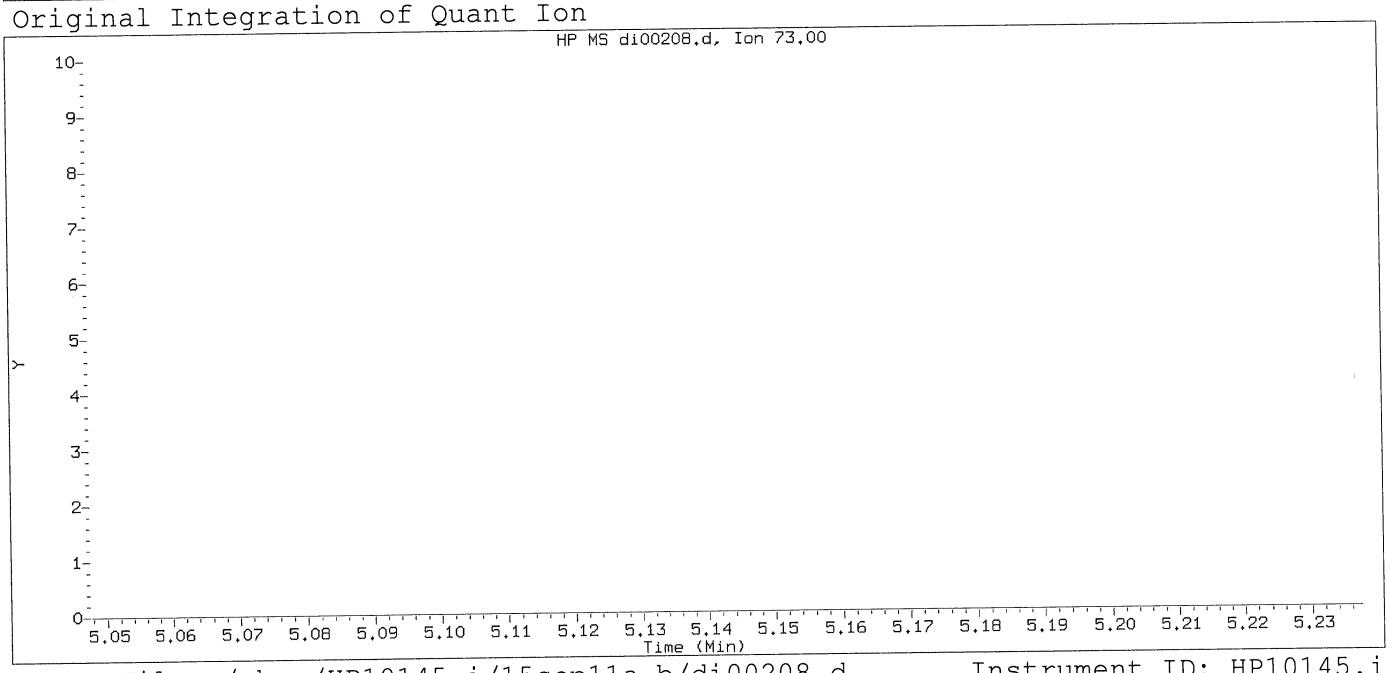
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMW 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

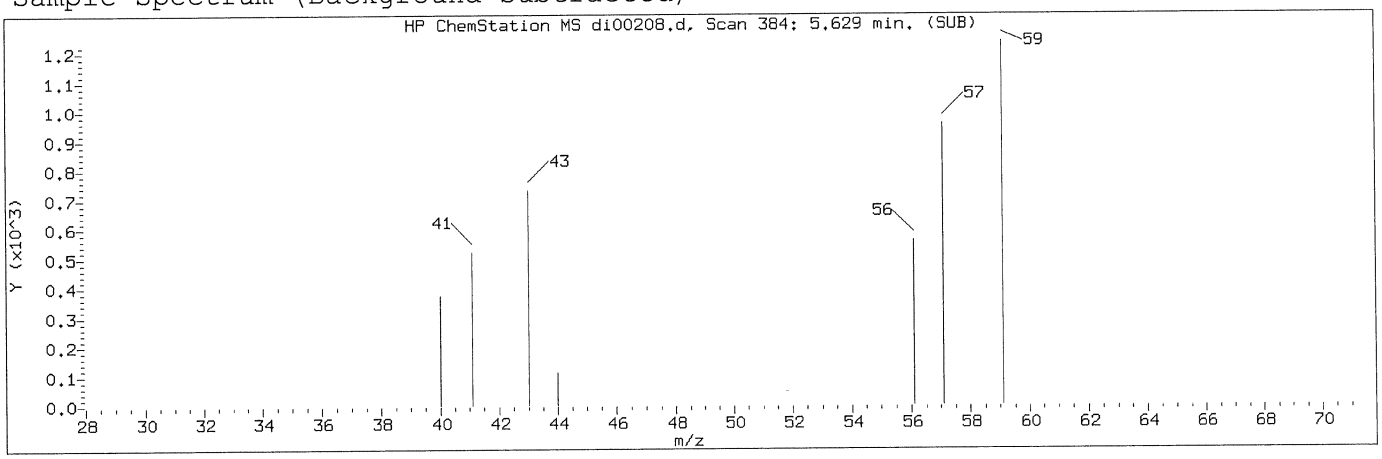
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

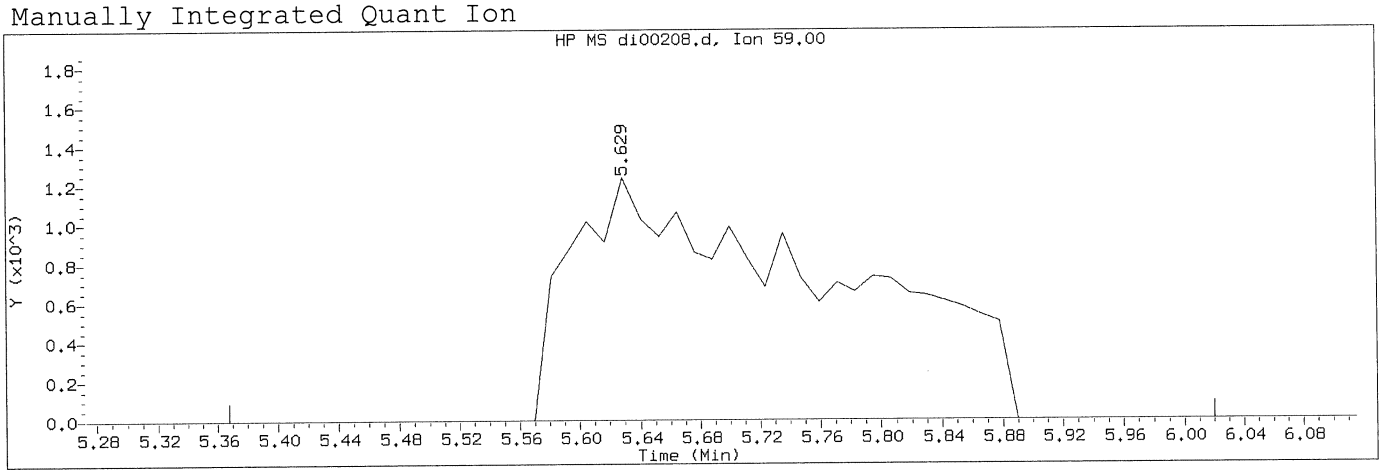
Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Expected RT (minutes) : 5.142
Quant Ion : 73.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

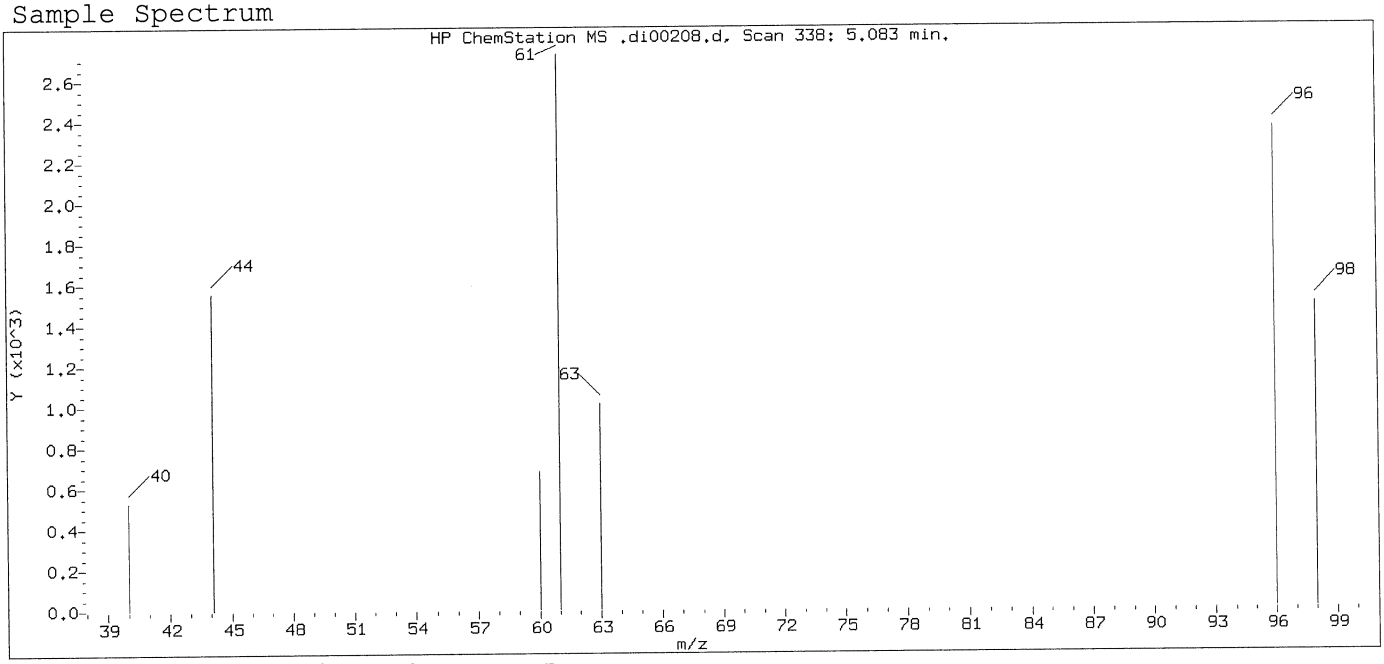
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 384
Retention Time (minutes): 5.629
Quant Ion : 59.00
Area (flag) : 14661M
Concentration (ppb(v)) : 0.1272
Integration start scan : 361 Integration stop scan: 416
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

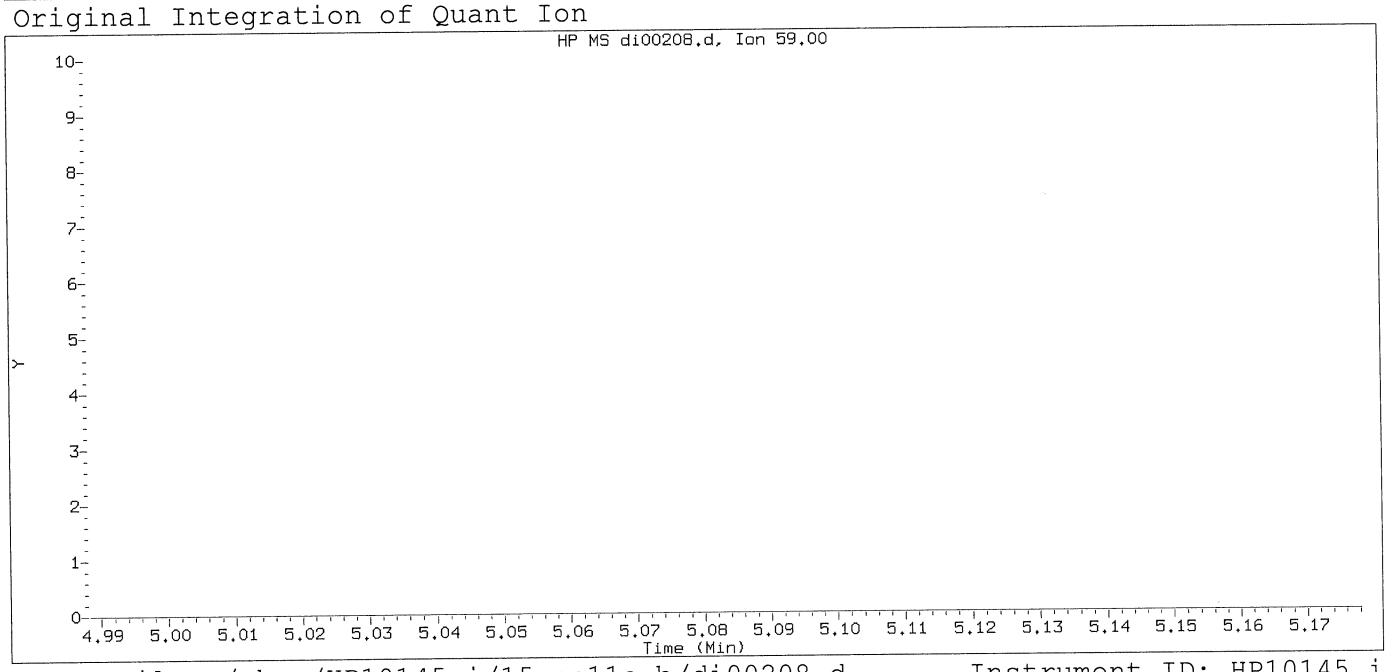
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: _____ 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

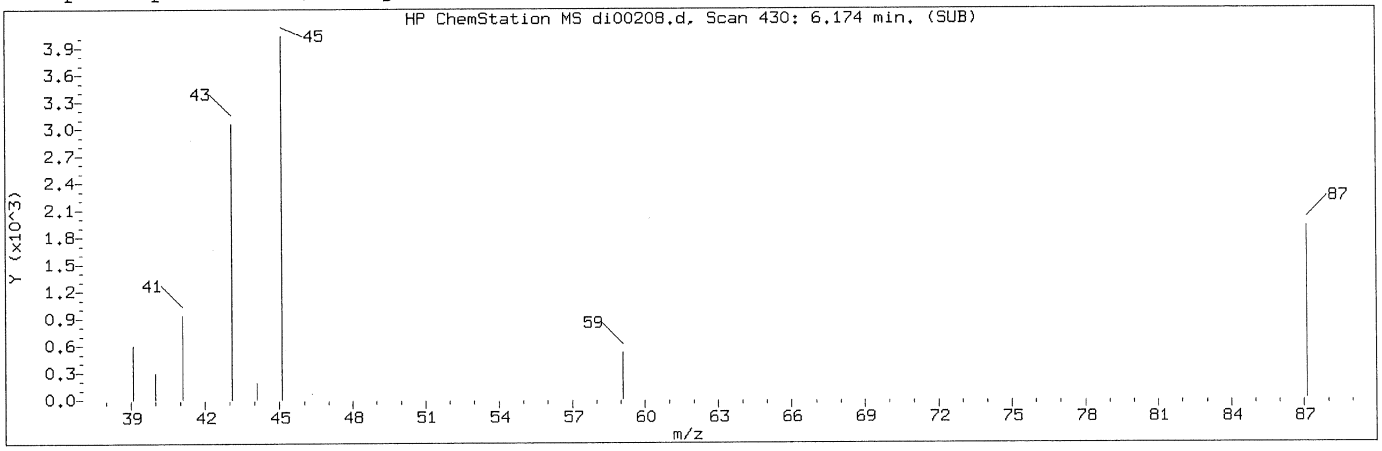
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

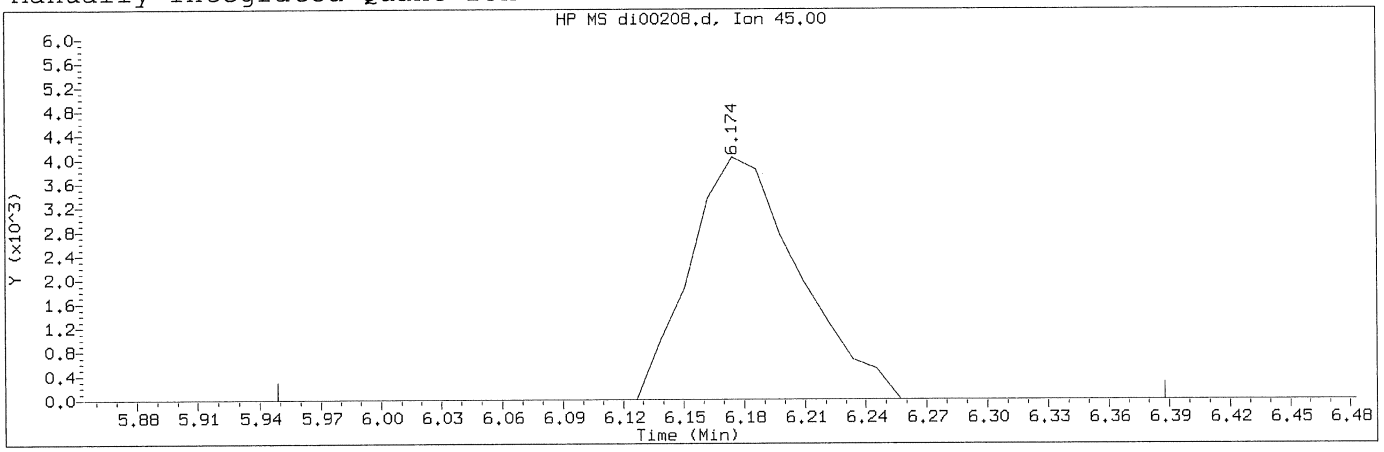
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Expected RT (minutes) : 5.083
Quant Ion : 59.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

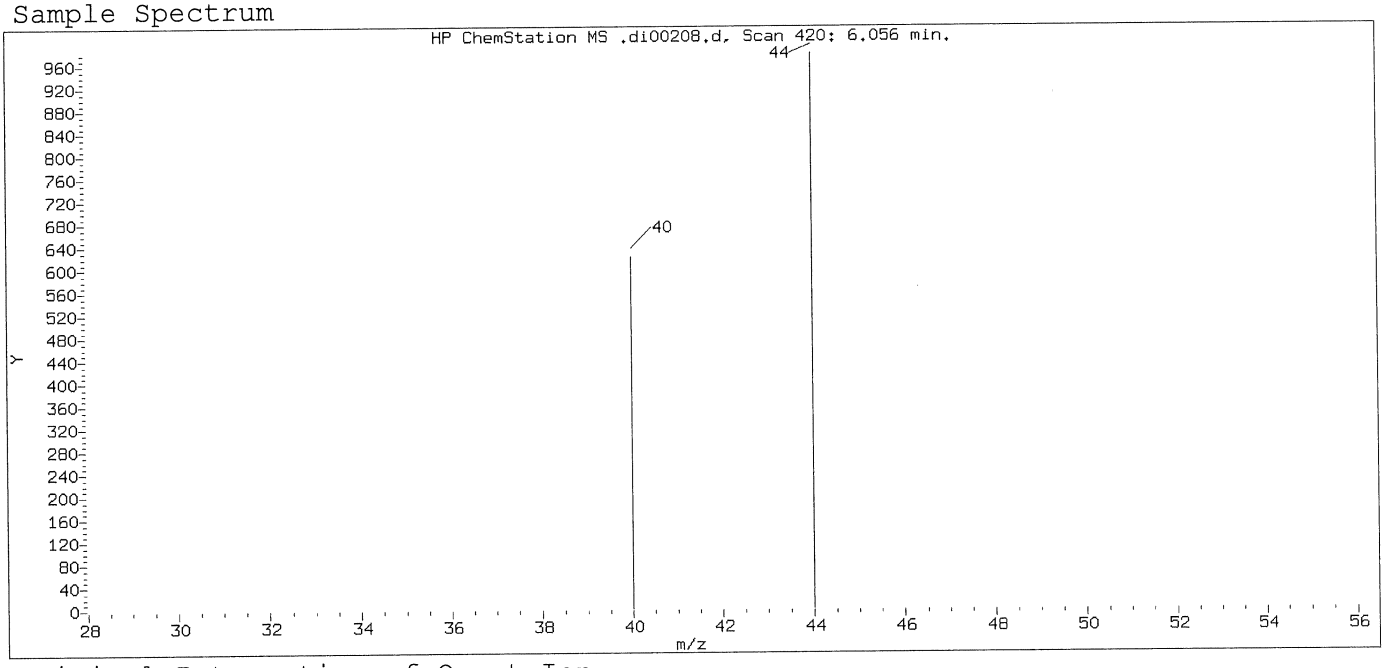
Compound Number	: 33		
Compound Name	: Di-Isopropyl Ether		
Scan Number	: 430		
Retention Time (minutes)	: 6.174		
Quant Ion	: 45.00		
Area (flag)	: 15088M		
Concentration (ppb(v))	: 0.1183		
Integration start scan	: 410	Integration stop scan:	447
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

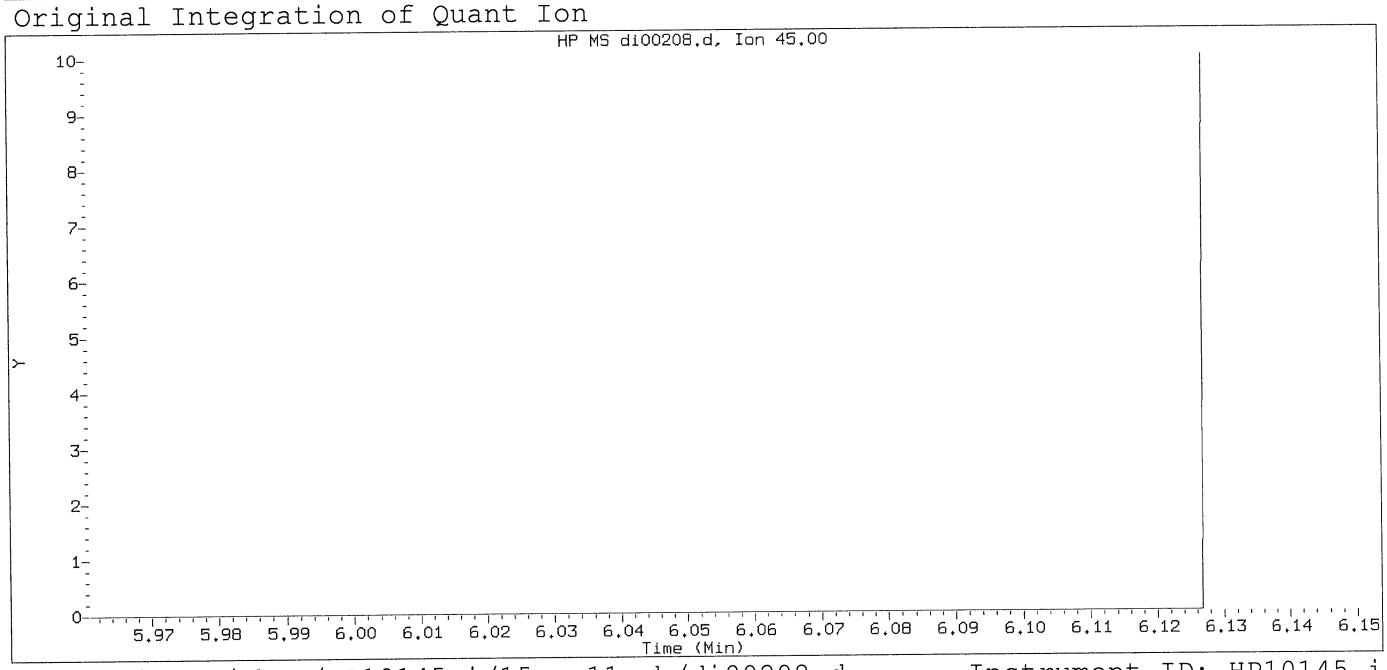
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmurphy 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

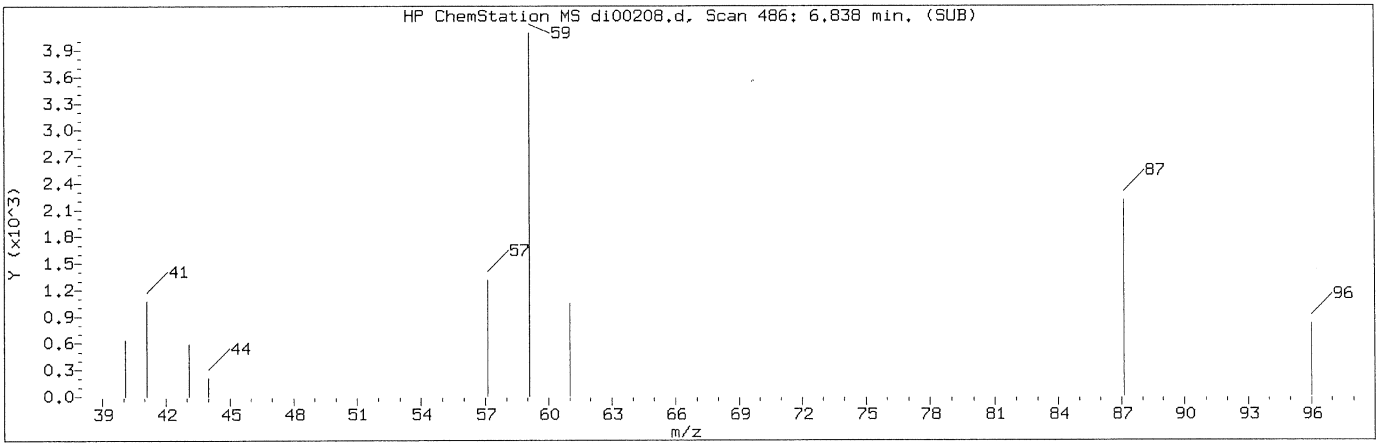
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

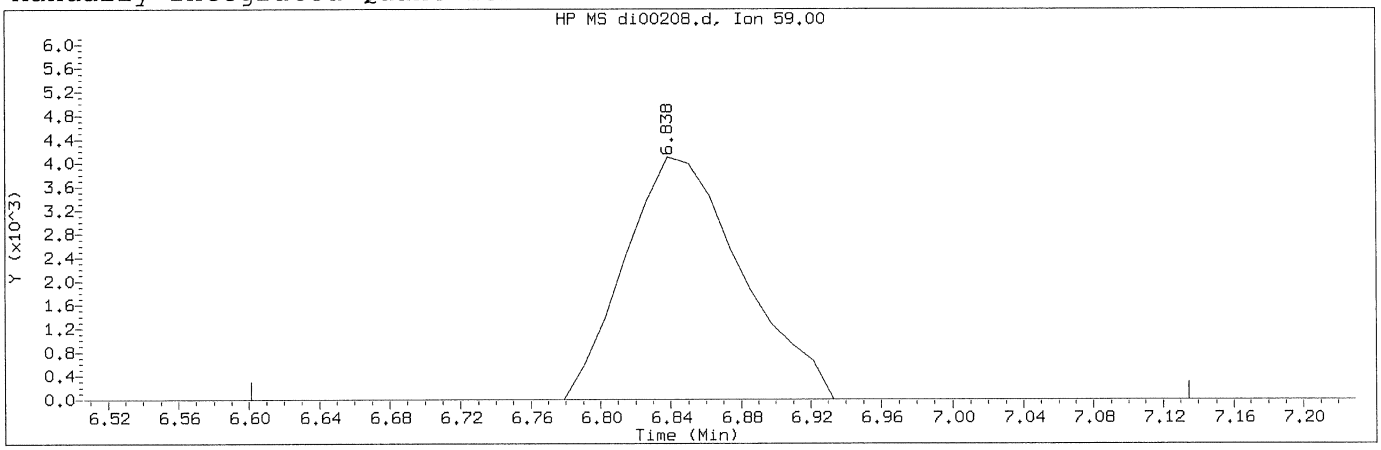
Compound Number : 33
Compound Name : Di-Isopropyl Ether
Expected RT (minutes) : 6.055
Quant Ion : 45.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

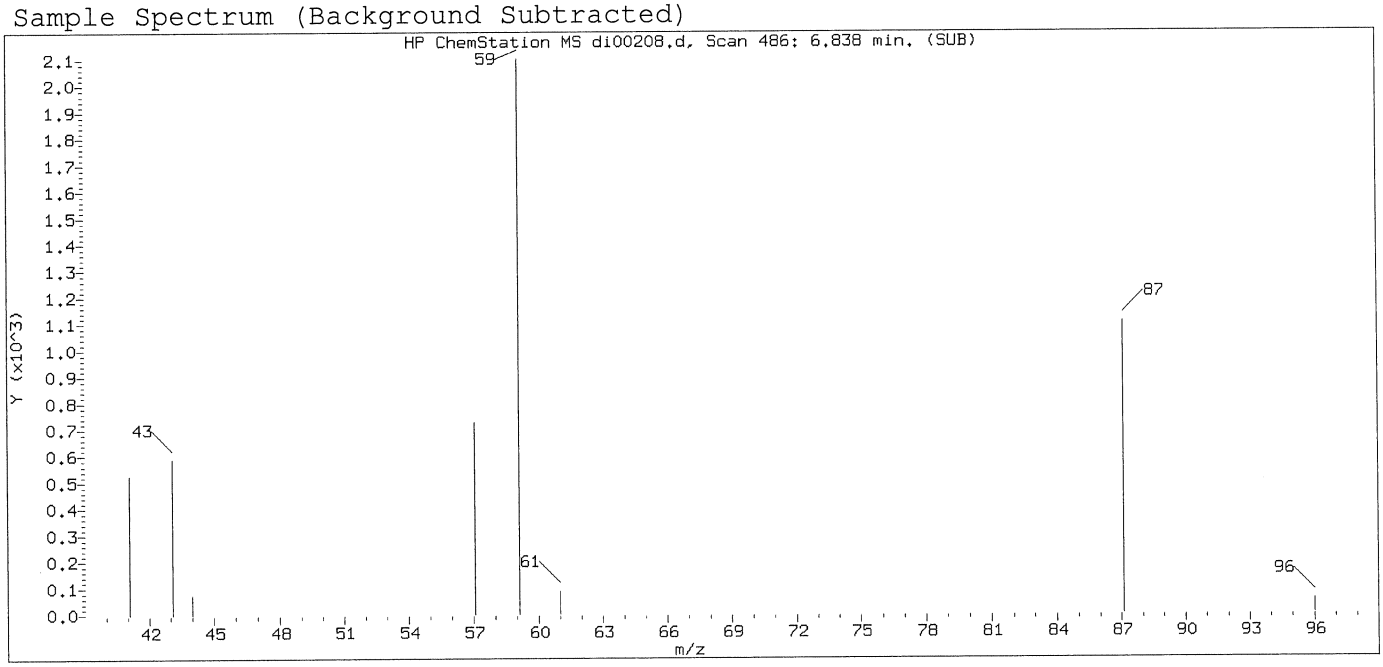
Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 486		
Retention Time (minutes)	: 6.838		
Quant Ion	: 59.00		
Area (flag)	: 18891M		
Concentration (ppb(v))	: 0.1101		
Integration start scan	: 465	Integration stop scan:	510
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

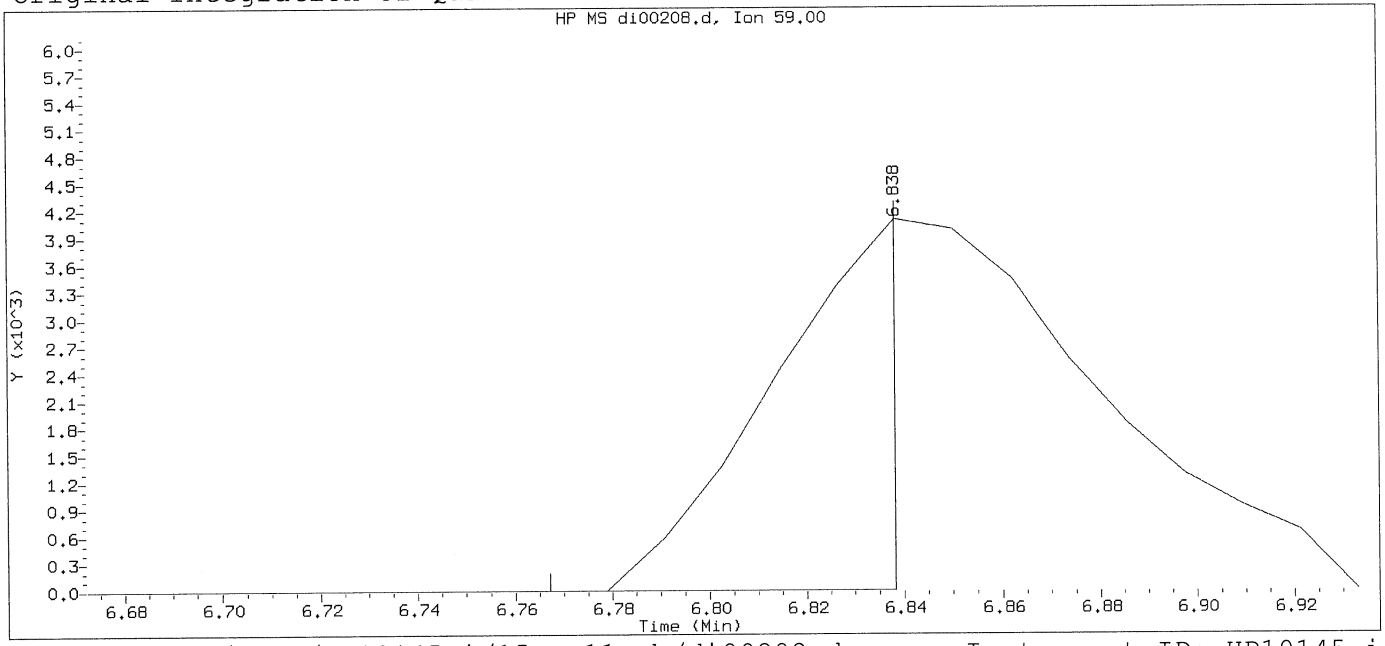
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmq 9/15/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

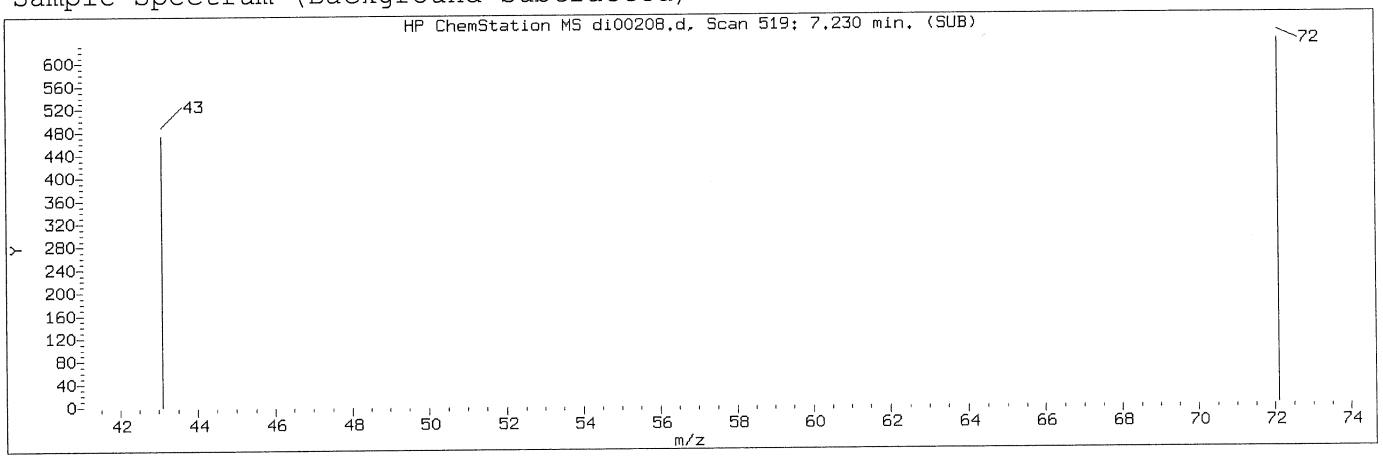
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

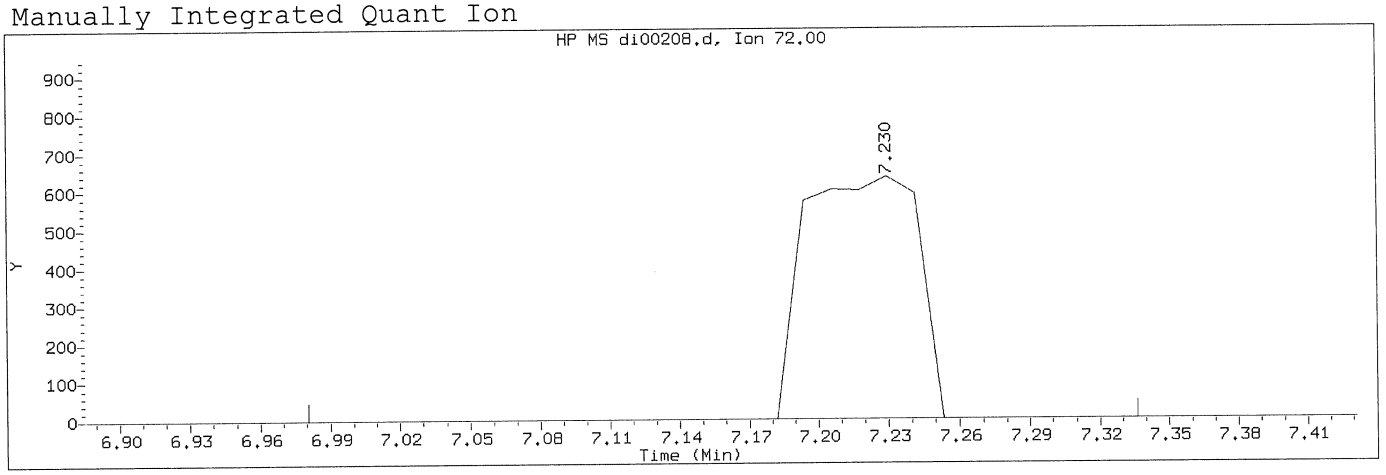
Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 486		
Retention Time (minutes)	: 6.838		
Quant Ion	: 59.00		
Area	: 6980		
Concentration (ppb(v))	: 0.0596		
Integration start scan	: 479	Integration stop scan:	485
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

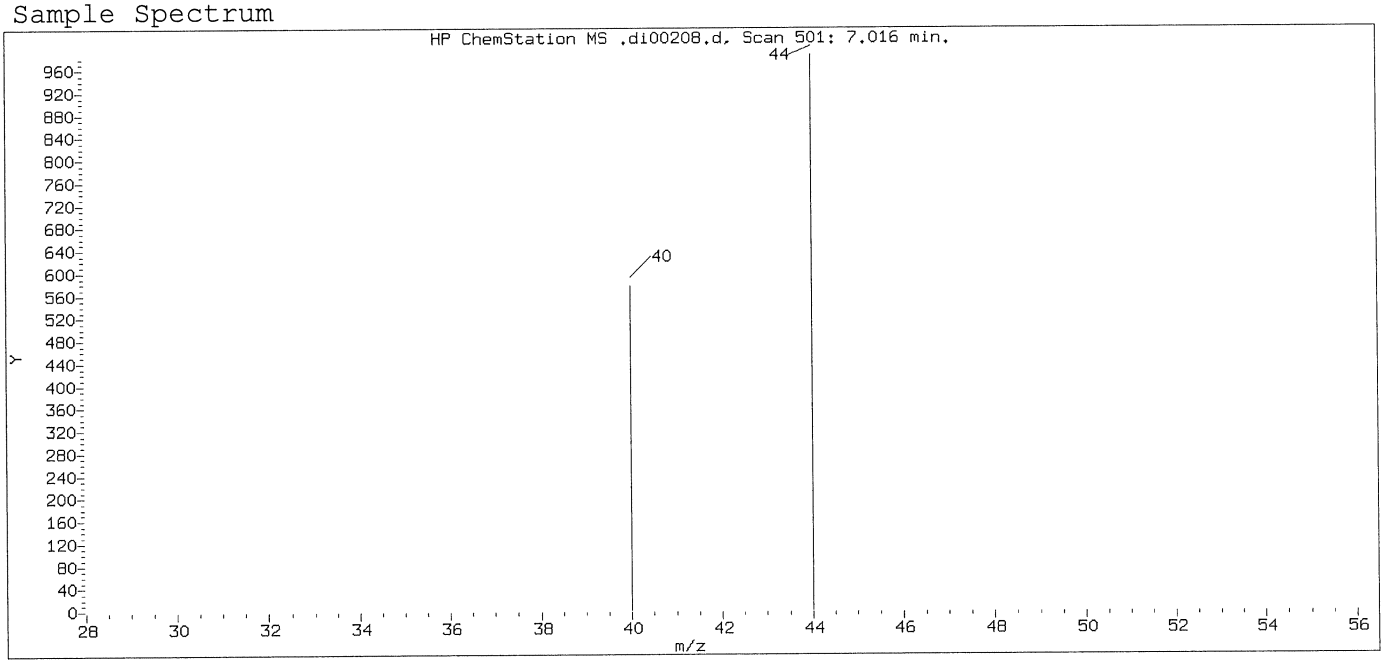
Compound Number	: 37		
Compound Name	: 2-Butanone		
Scan Number	: 519		
Retention Time (minutes)	: 7.230		
Quant Ion	: 72.00		
Area (flag)	: 2134M		
Concentration (ppb(v))	: 0.0744		
Integration start scan	: 497	Integration stop scan:	527
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

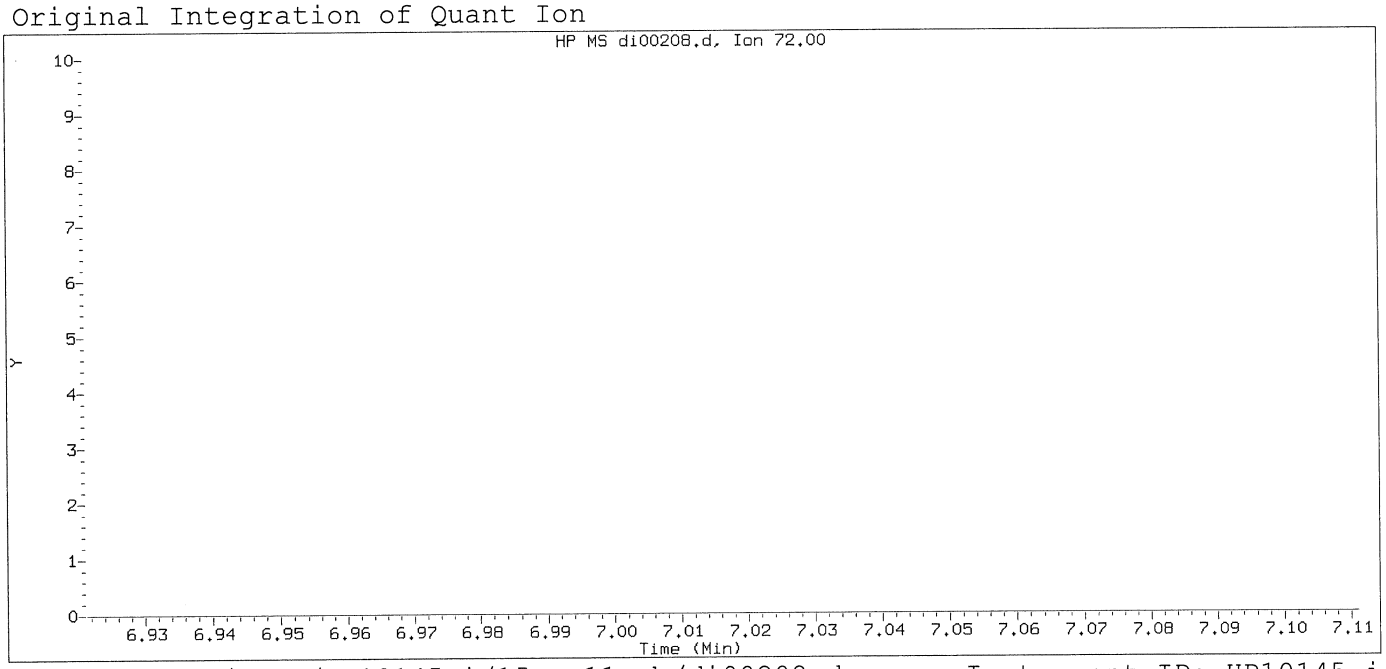
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMY 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

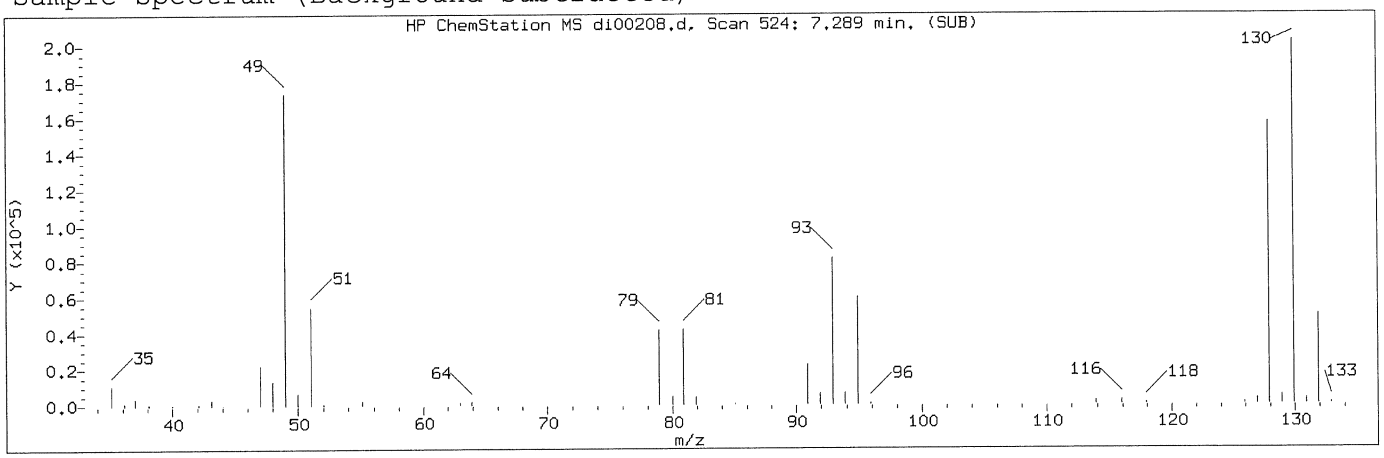
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

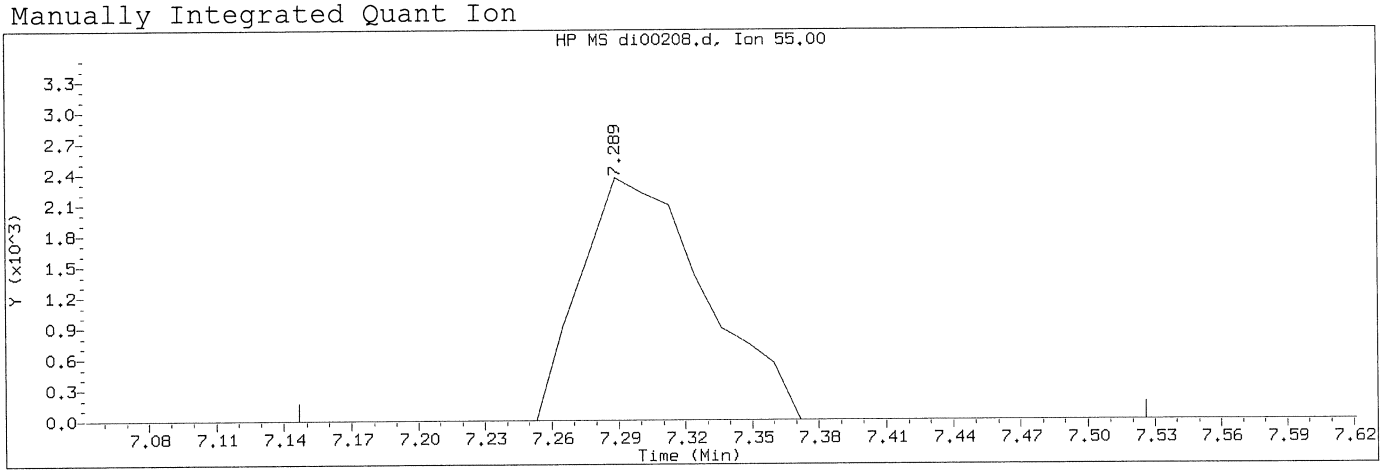
Compound Number : 37
Compound Name : 2-Butanone
Expected RT (minutes) : 7.016
Quant Ion : 72.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

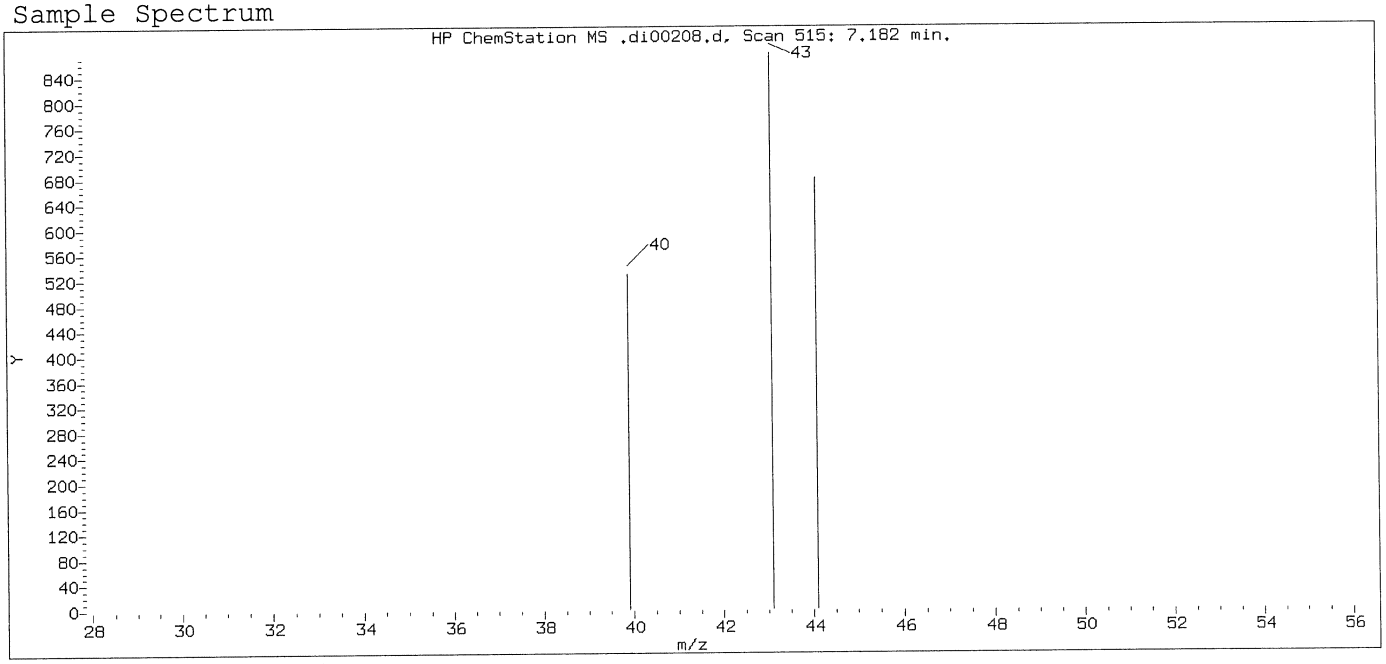
Compound Number	: 39		
Compound Name	: Methyl Acrylate		
Scan Number	: 524		
Retention Time (minutes)	: 7.289		
Quant Ion	: 55.00		
Area (flag)	: 9105M		
Concentration (ppb(v))	: 0.1218		
Integration start scan	: 511	Integration stop scan:	543
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

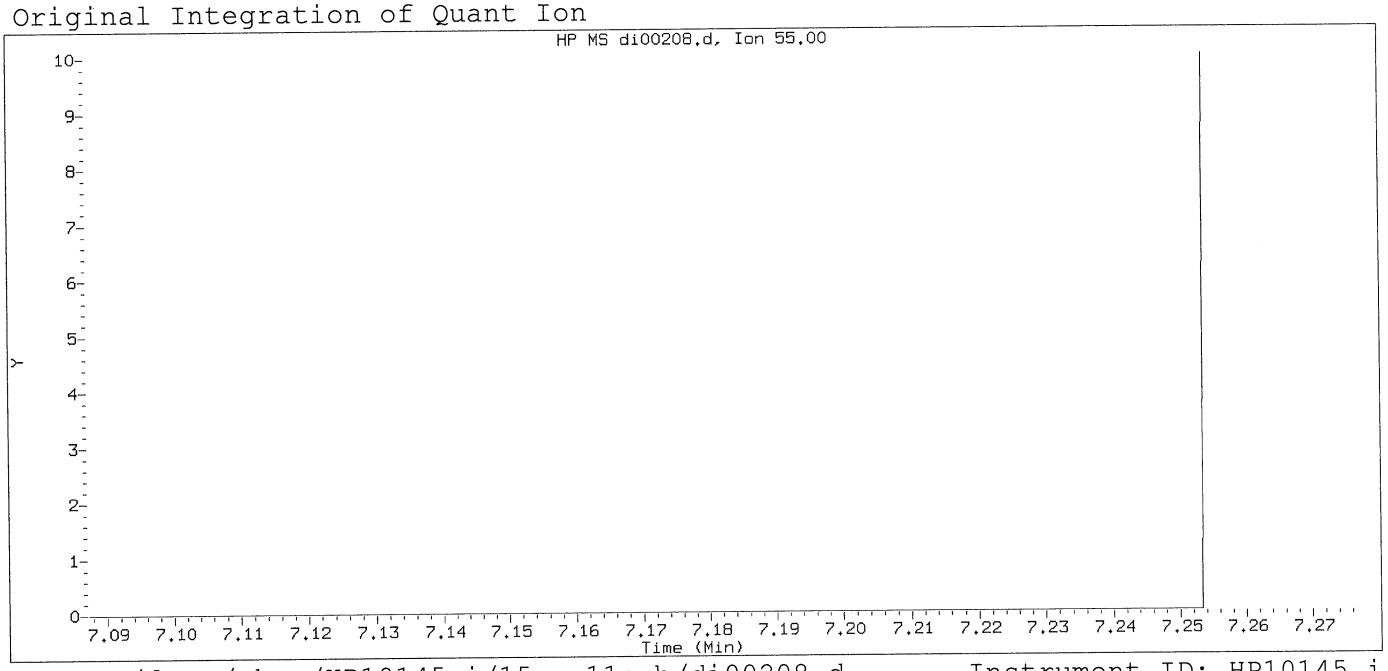
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmyth 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

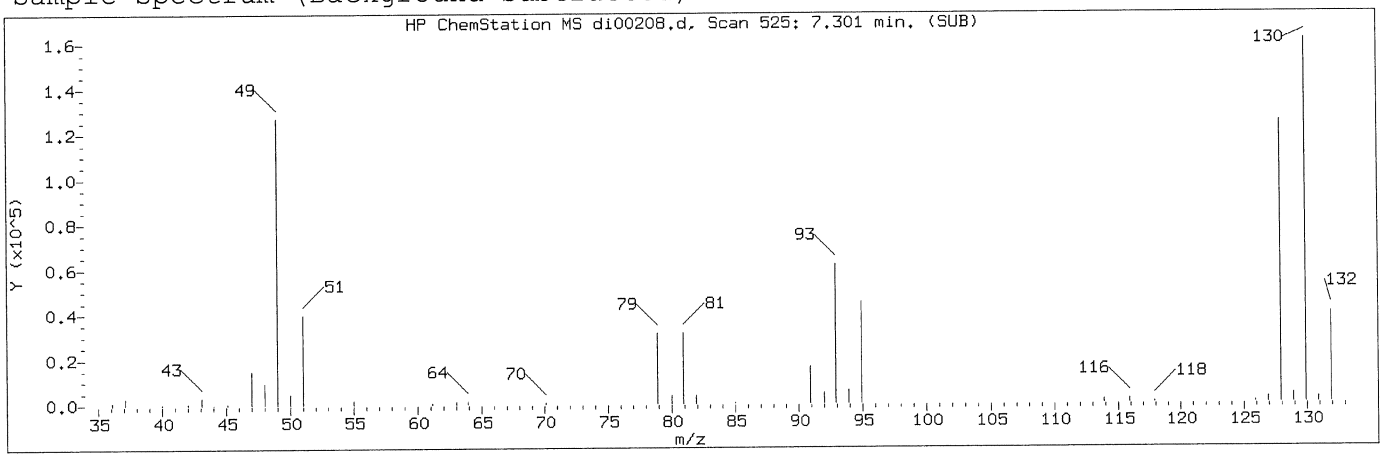
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

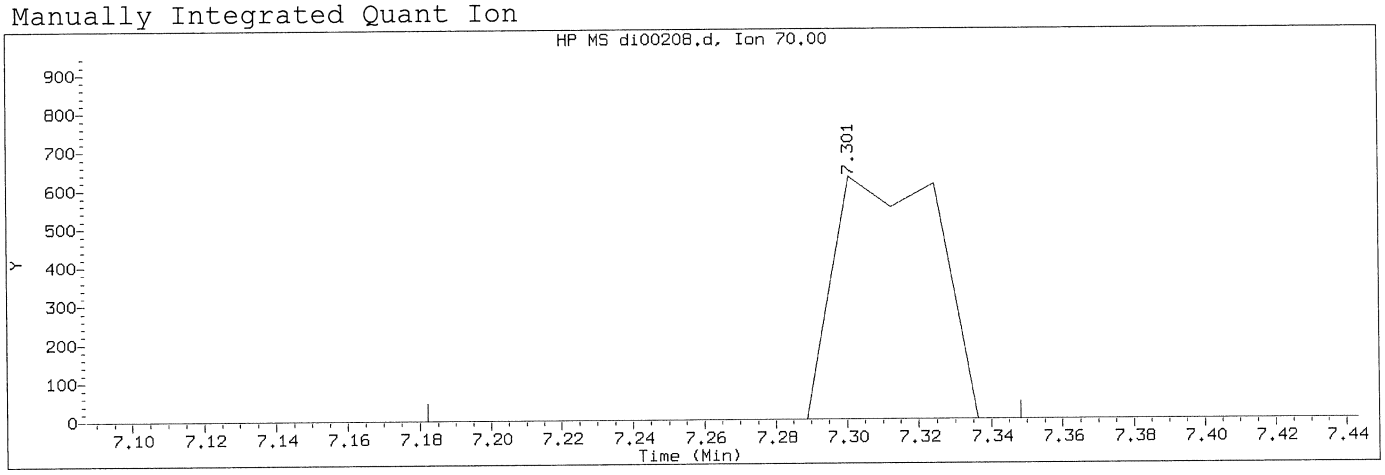
Compound Number : 39
Compound Name : Methyl Acrylate
Expected RT (minutes) : 7.182
Quant Ion : 55.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

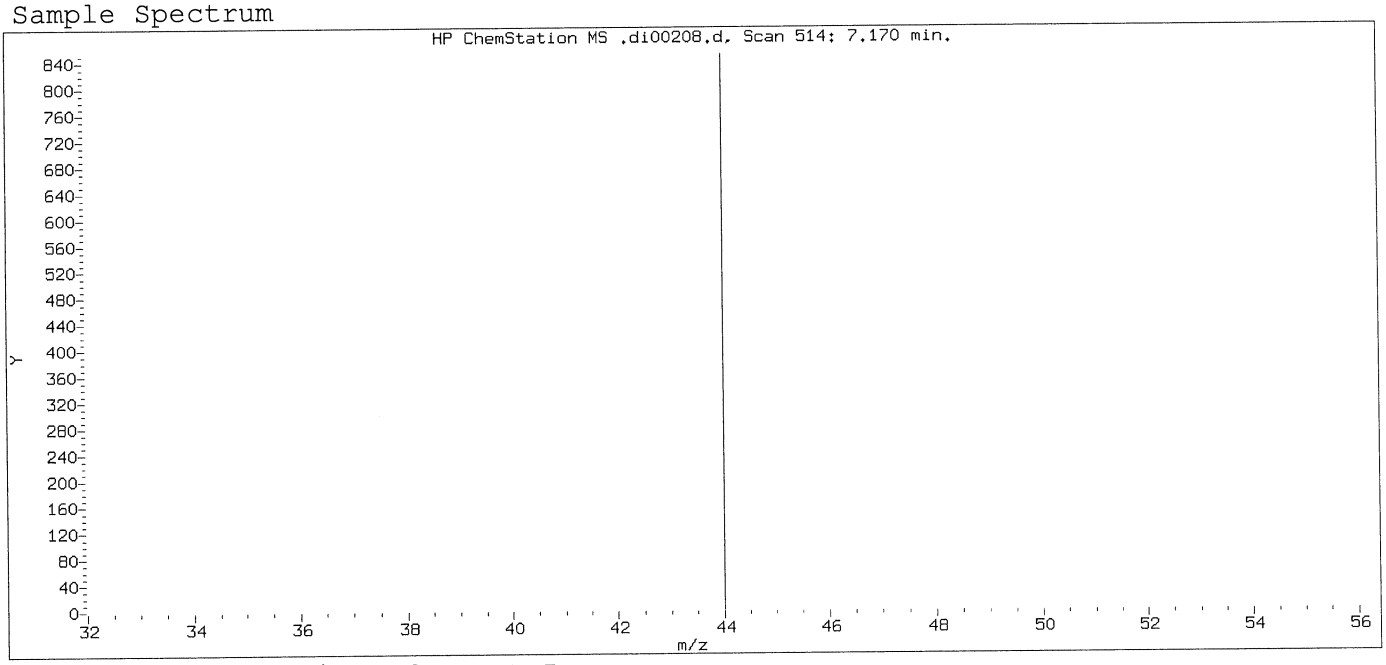
Compound Number	: 38		
Compound Name	: Ethyl Acetate		
Scan Number	: 525		
Retention Time (minutes)	: 7.301		
Quant Ion	: 70.00		
Area (flag)	: 1273M		
Concentration (ppb(v))	: 0.0755		
Integration start scan	: 514	Integration stop scan:	528
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

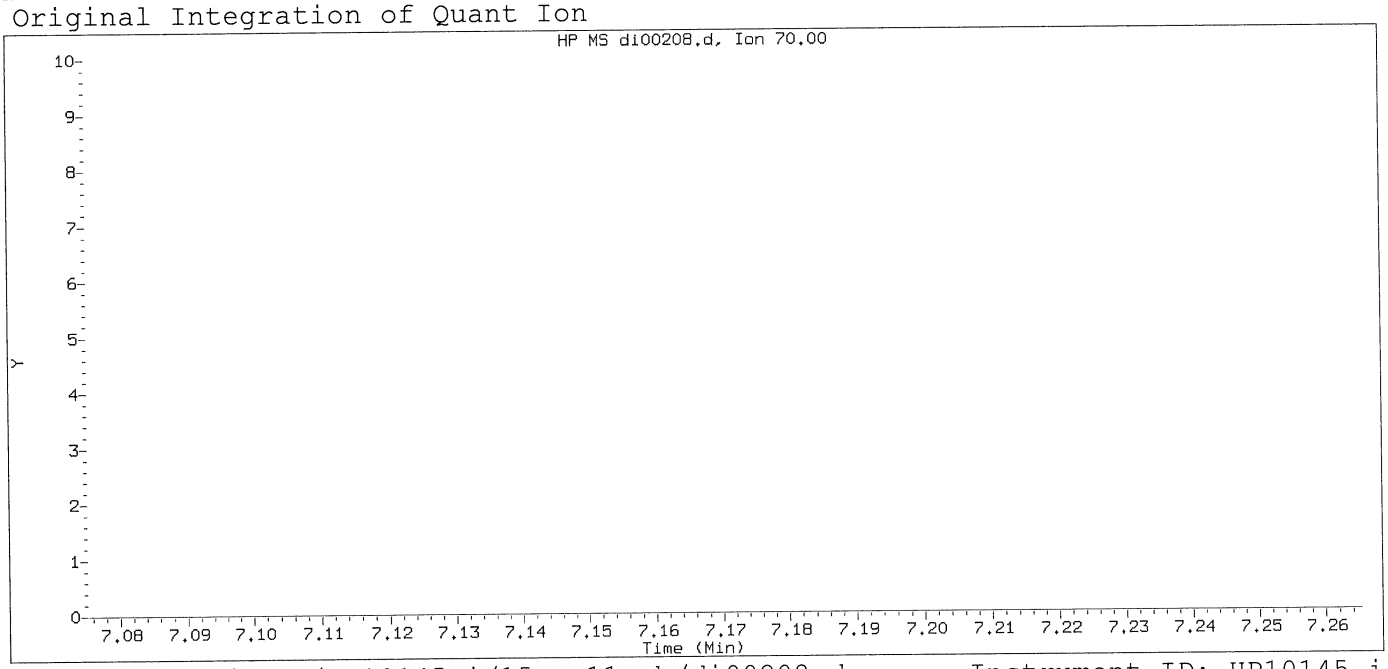
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52. Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMW 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

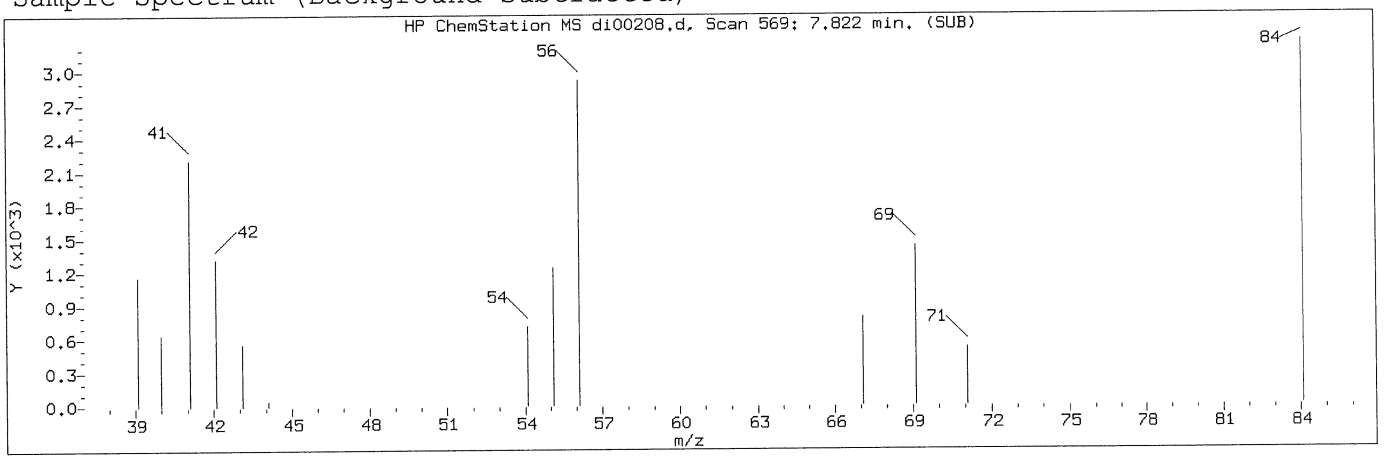
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

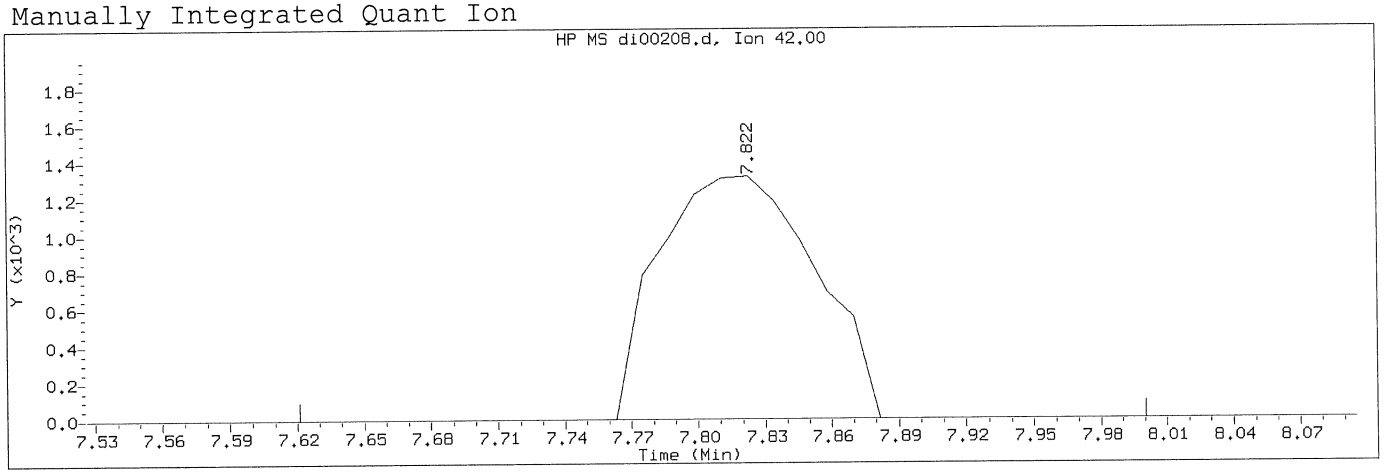
Compound Number : 38
Compound Name : Ethyl Acetate
Expected RT (minutes) : 7.170
Quant Ion : 70.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

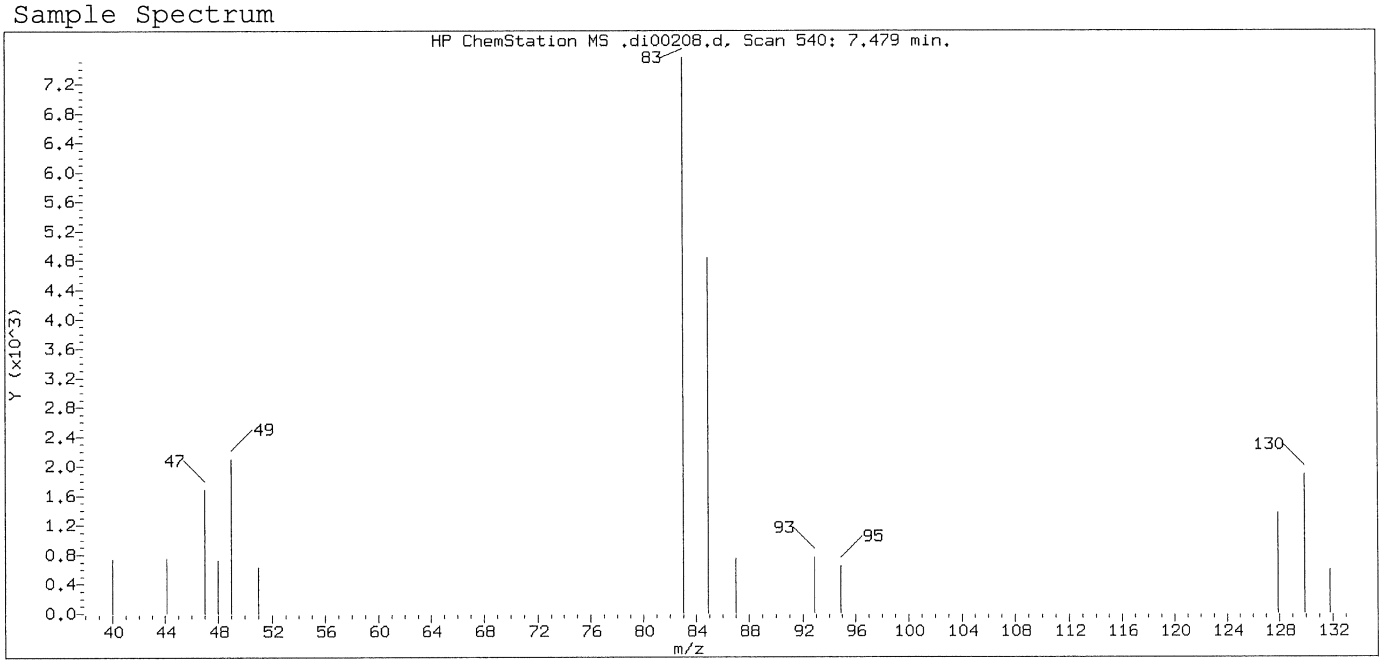
Compound Number	: 41		
Compound Name	: Tetrahydrofuran		
Scan Number	: 569		
Retention Time (minutes)	: 7.822		
Quant Ion	: 42.00		
Area (flag)	: 6414M		
Concentration (ppb(v))	: 0.1621		
Integration start scan	: 551	Integration stop scan:	583
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

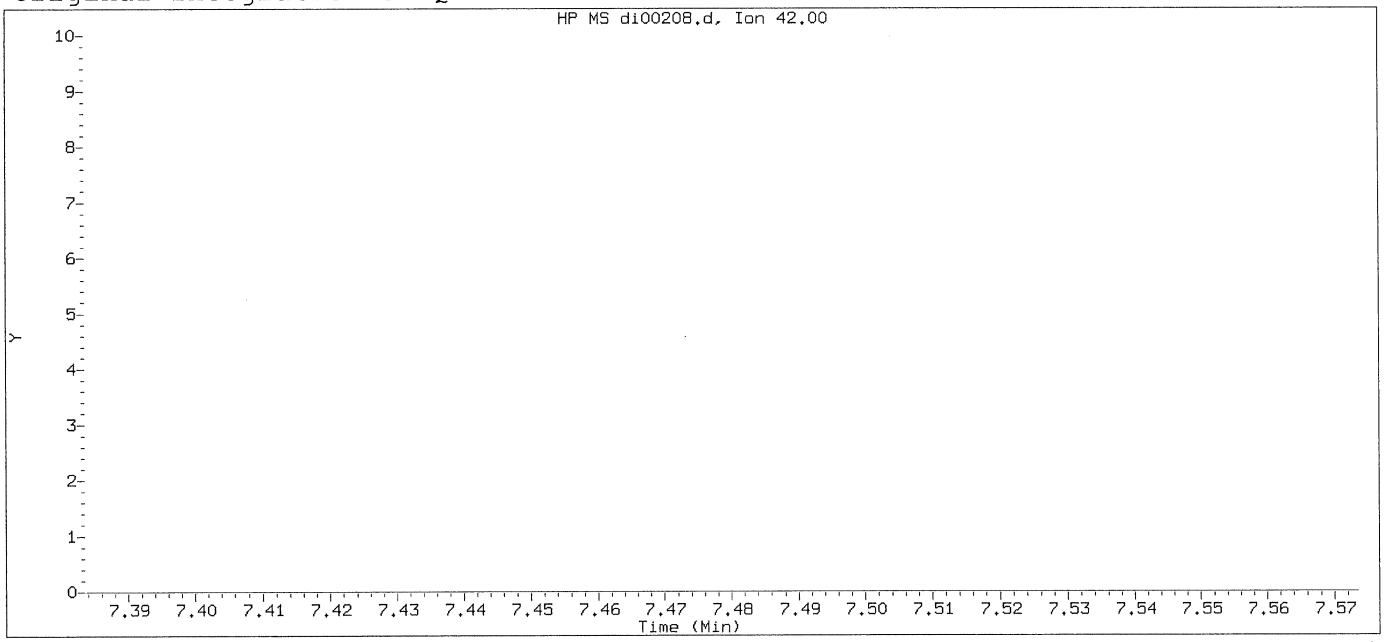
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMW 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

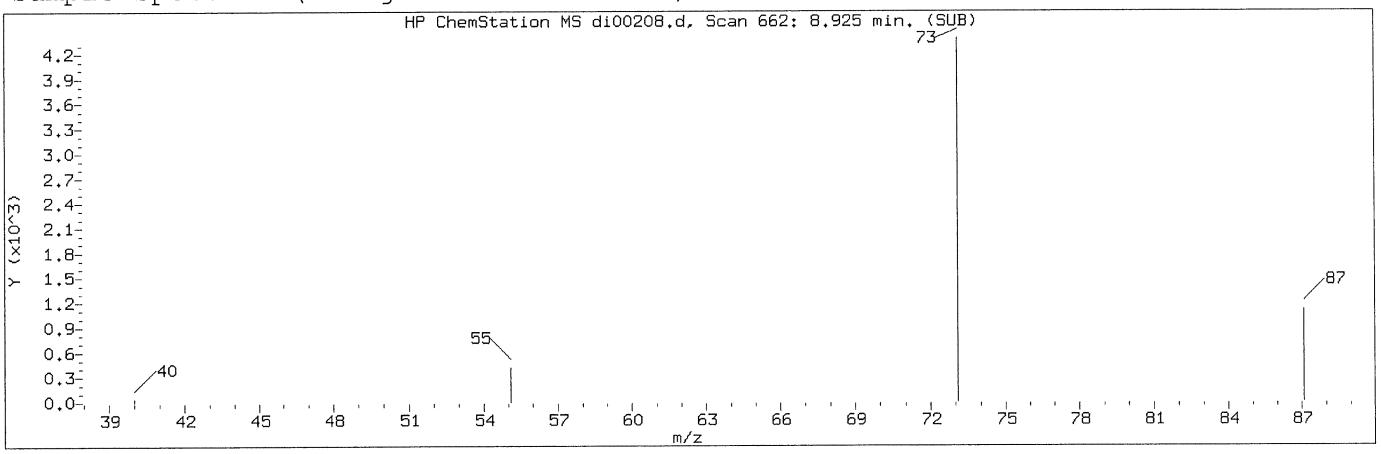
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

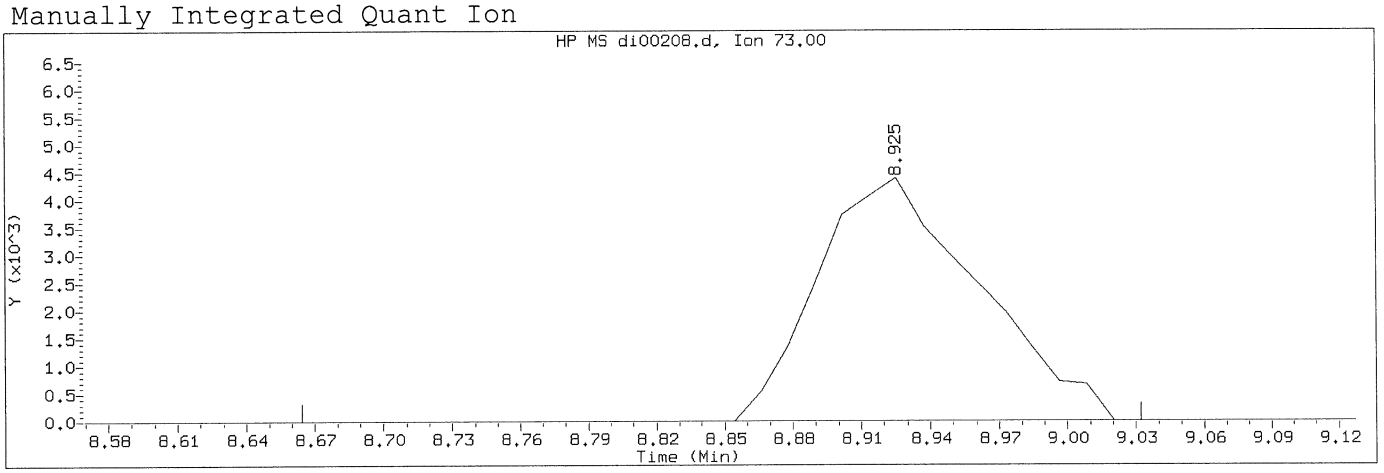
Compound Number : 41
Compound Name : Tetrahydrofuran
Expected RT (minutes) : 7.478
Quant Ion : 42.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

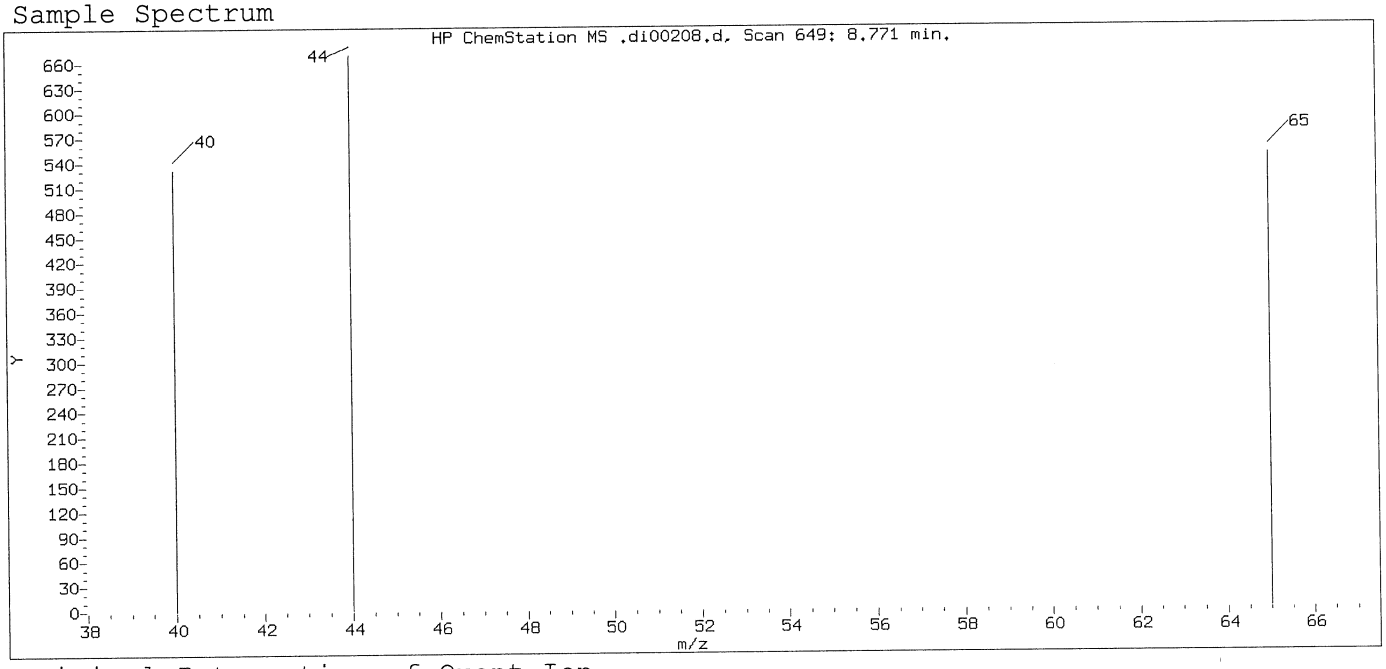
Compound Number : 49
Compound Name : Tert-Amyl Methyl Ether
Scan Number : 662
Retention Time (minutes): 8.925
Quant Ion : 73.00
Area (flag) : 21528M
Concentration (ppb(v)) : 0.1111
Integration start scan : 639 Integration stop scan: 670
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

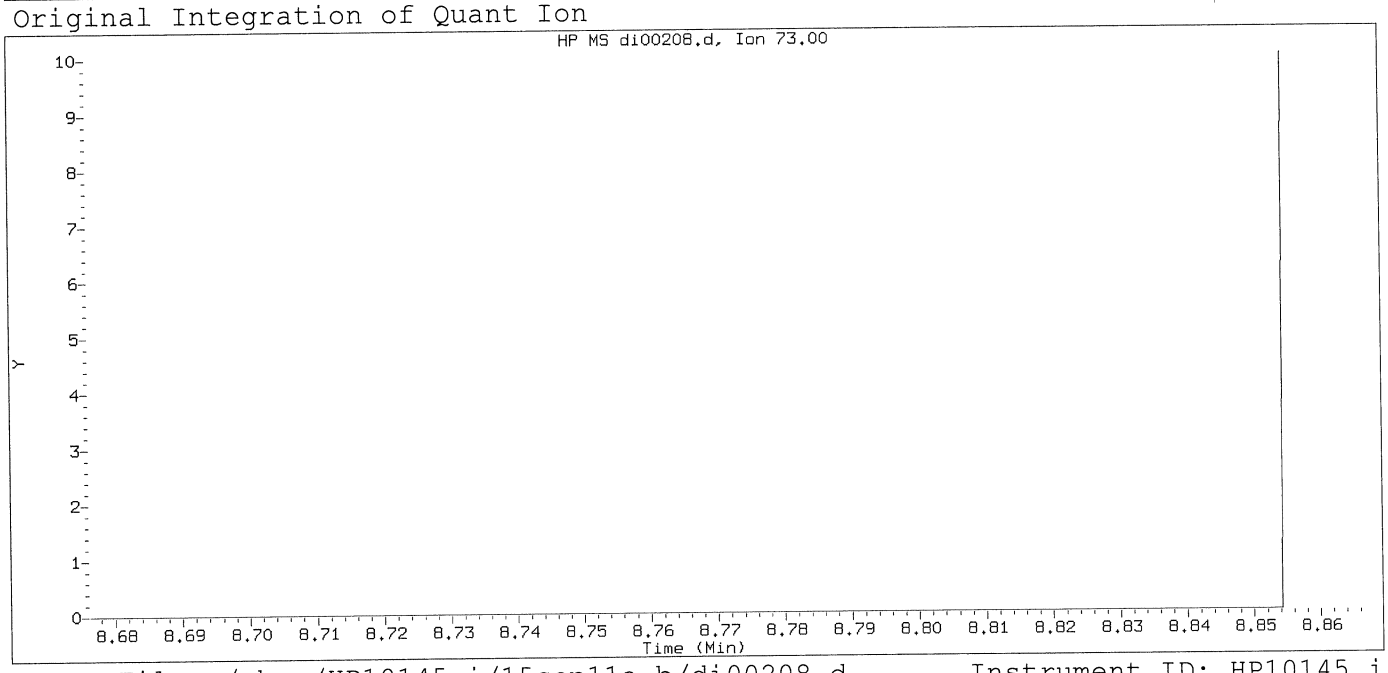
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: _____ 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

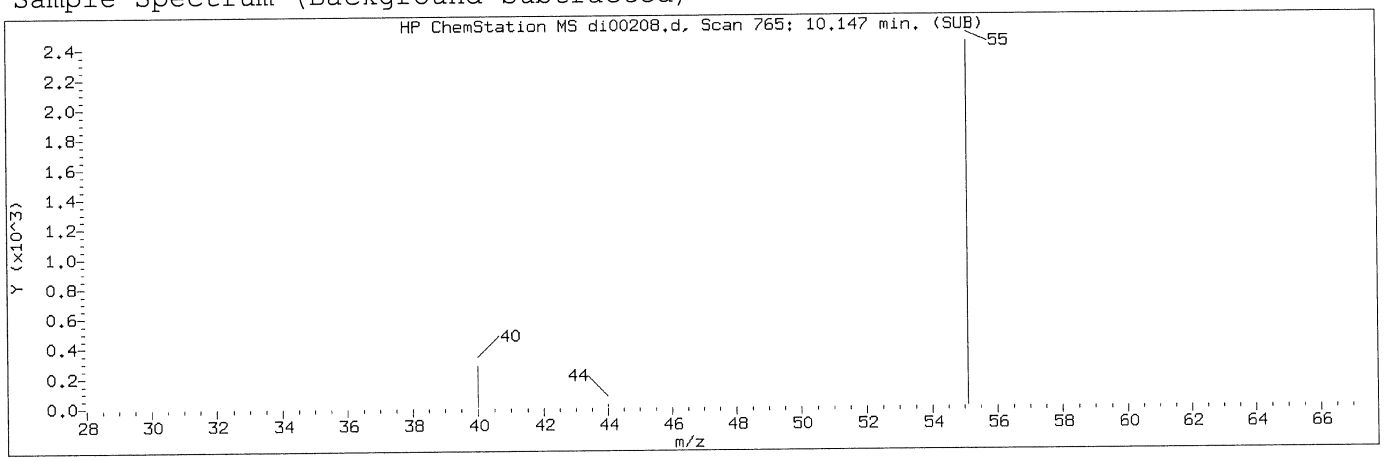
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

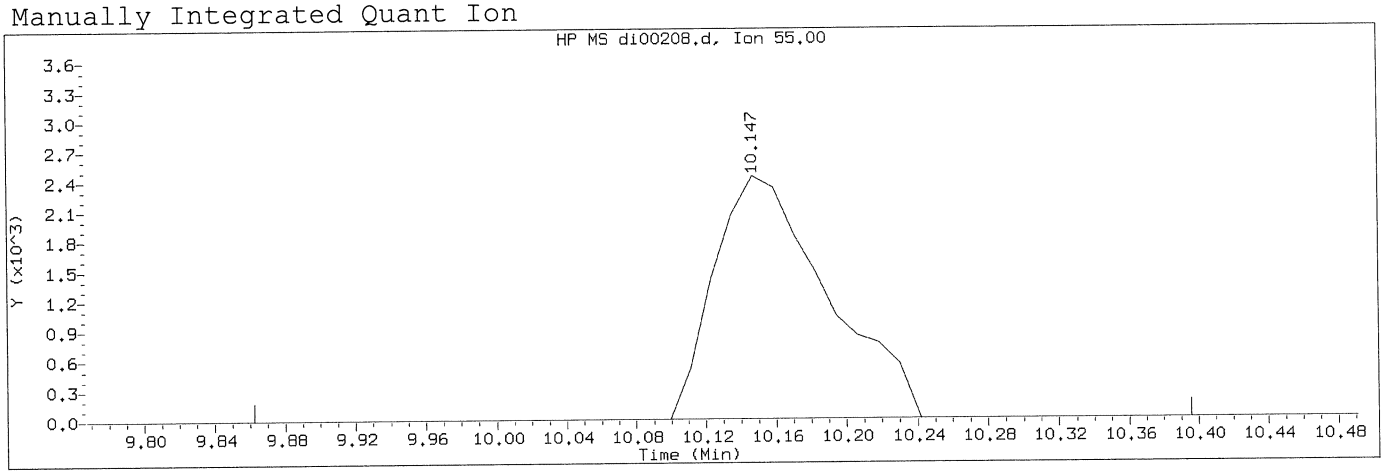
Compound Number : 49
Compound Name : Tert-Amyl Methyl Ether
Expected RT (minutes) : 8.771
Quant Ion : 73.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

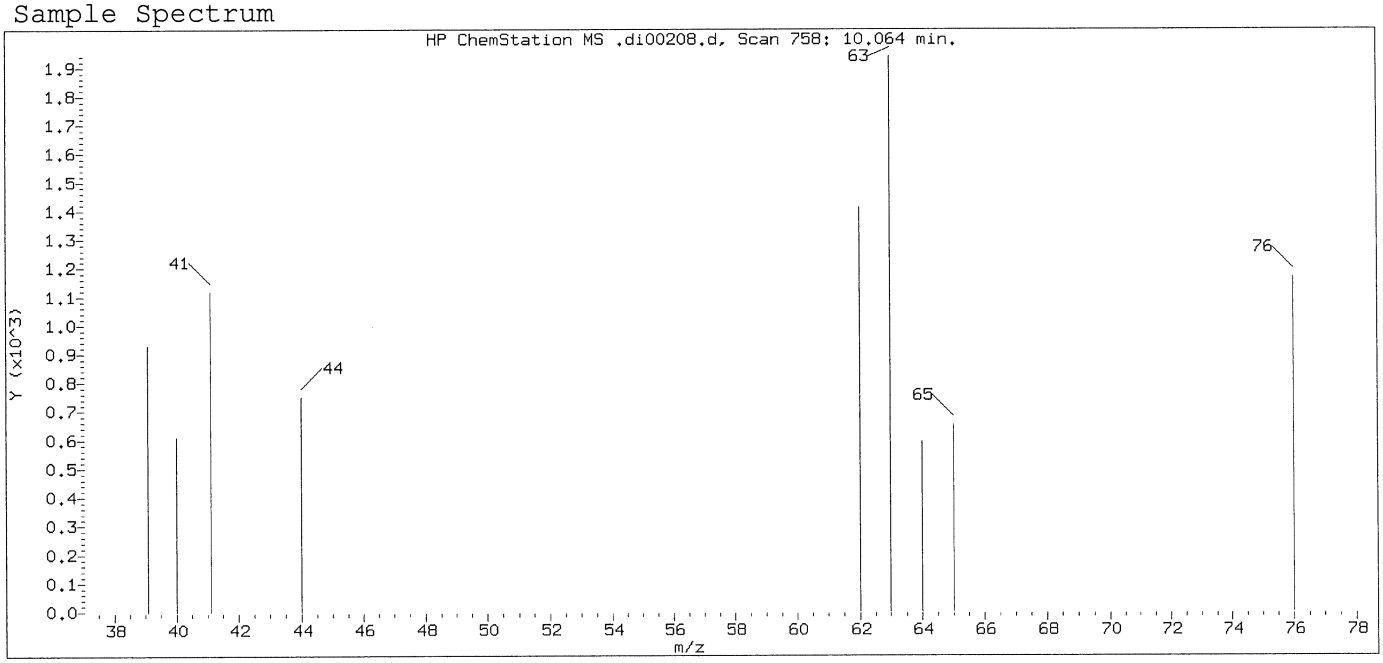
Compound Number	: 53		
Compound Name	: Ethyl Acrylate		
Scan Number	: 765		
Retention Time (minutes)	: 10.147		
Quant Ion	: 55.00		
Area (flag)	: 10850M		
Concentration (ppb(v))	: 0.1107		
Integration start scan	: 740	Integration stop scan:	785
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

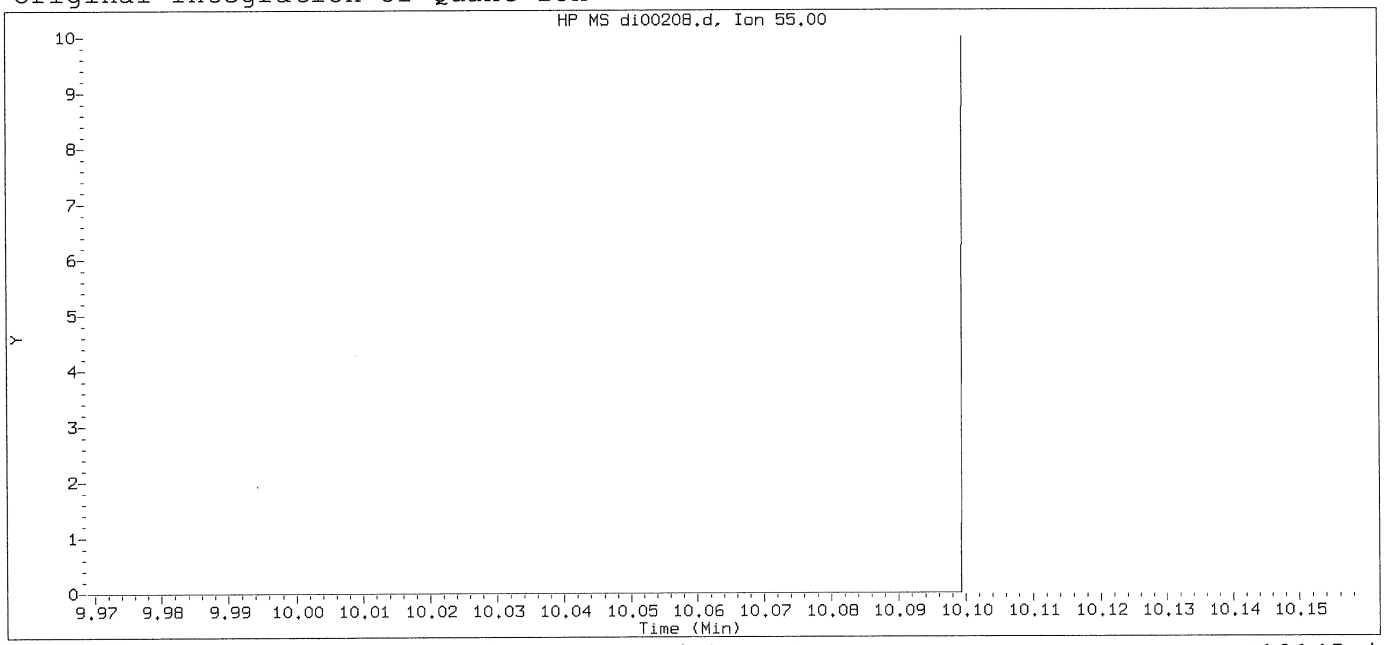
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Emily Hill 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

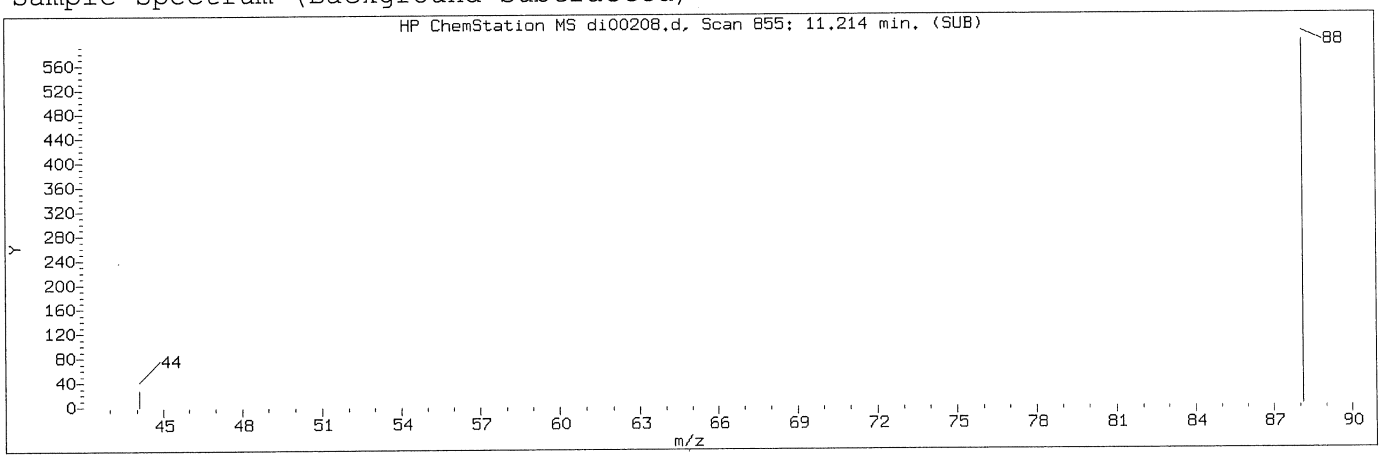
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

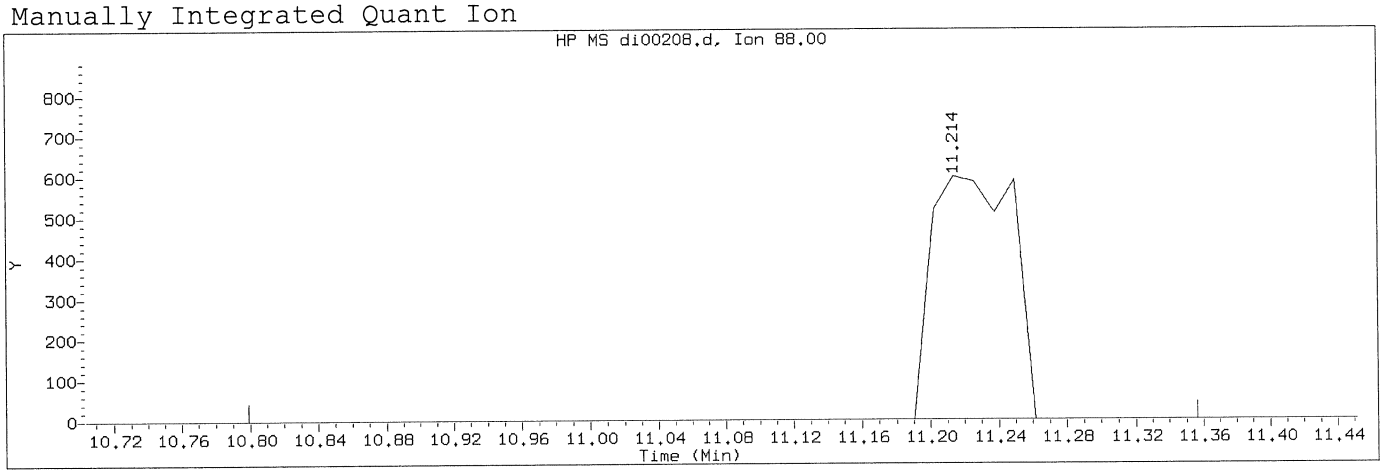
Compound Number : 53
Compound Name : Ethyl Acrylate
Expected RT (minutes) : 10.064
Quant Ion : 55.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

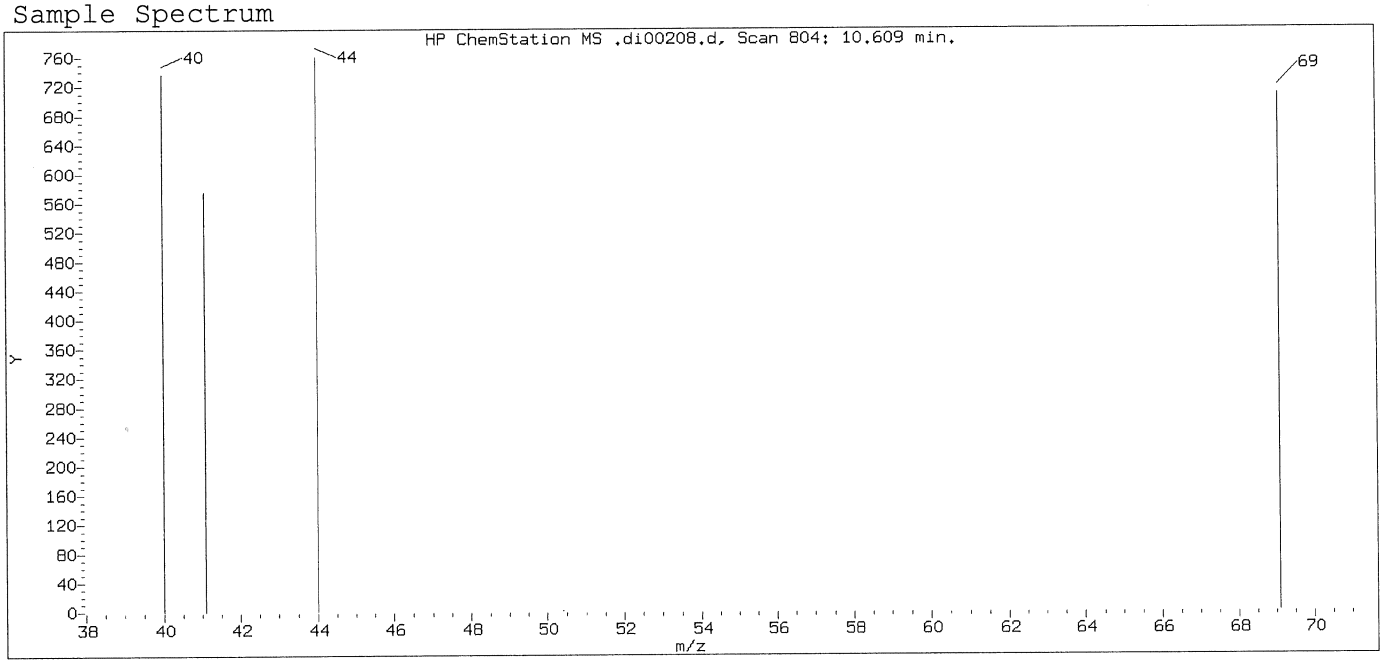
Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 855		
Retention Time (minutes)	: 11.214		
Quant Ion	: 88.00		
Area (flag)	: 1989M		
Concentration (ppb(v))	: 0.0438		
Integration start scan	: 819	Integration stop scan:	866
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

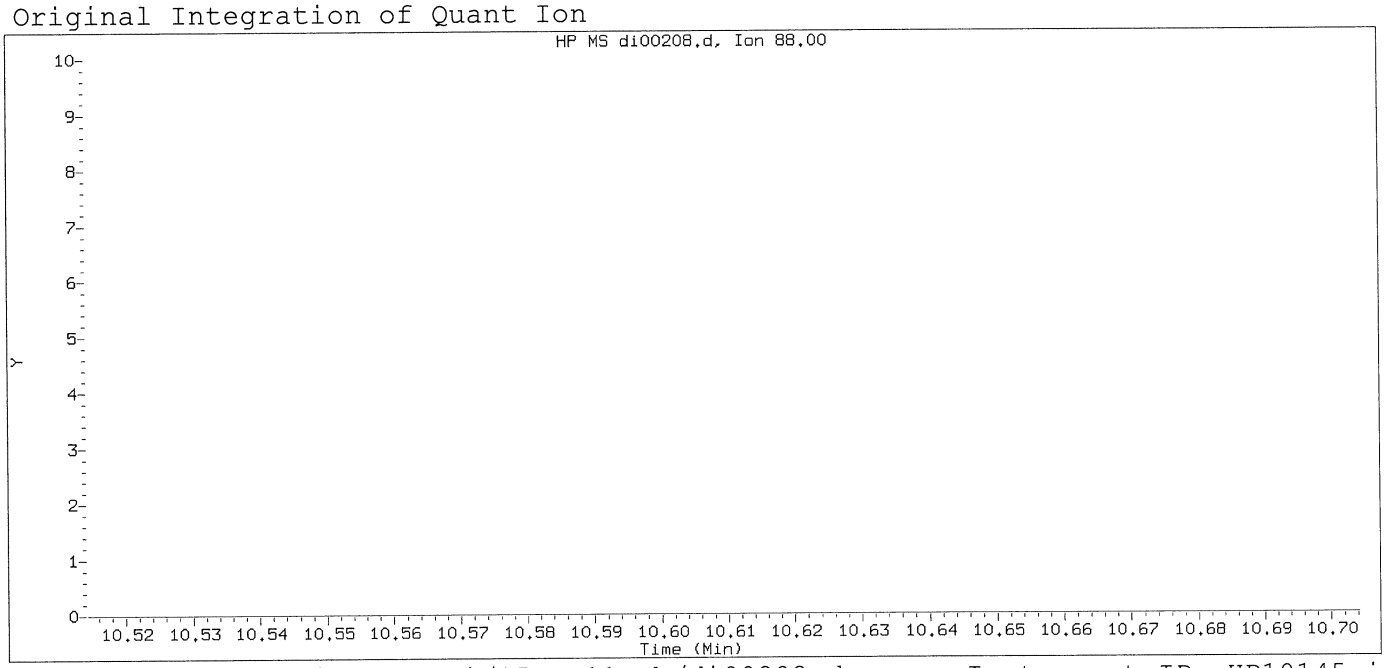
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Cmyn 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

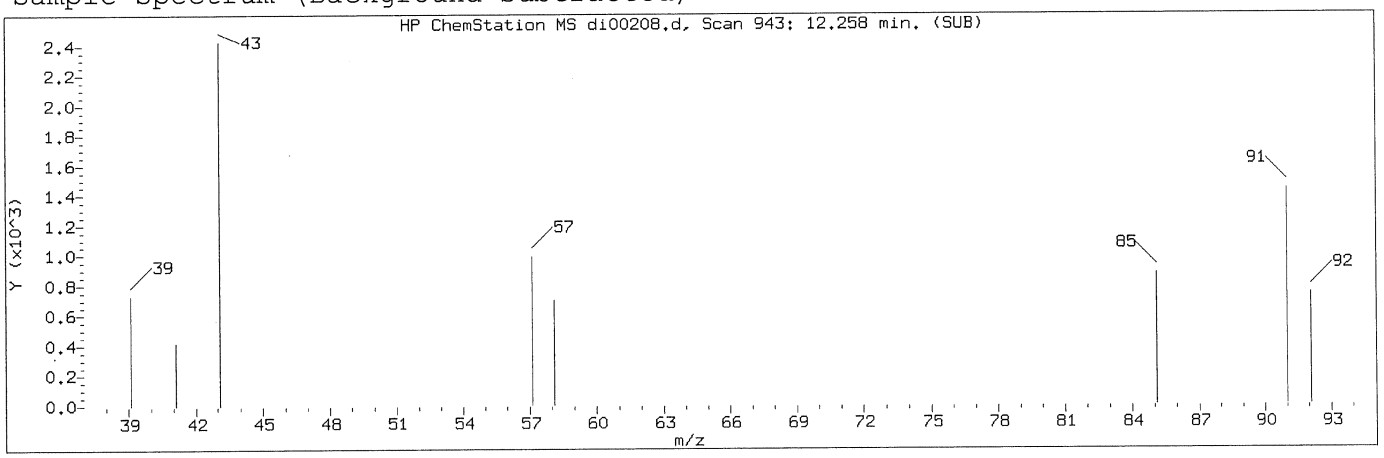
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

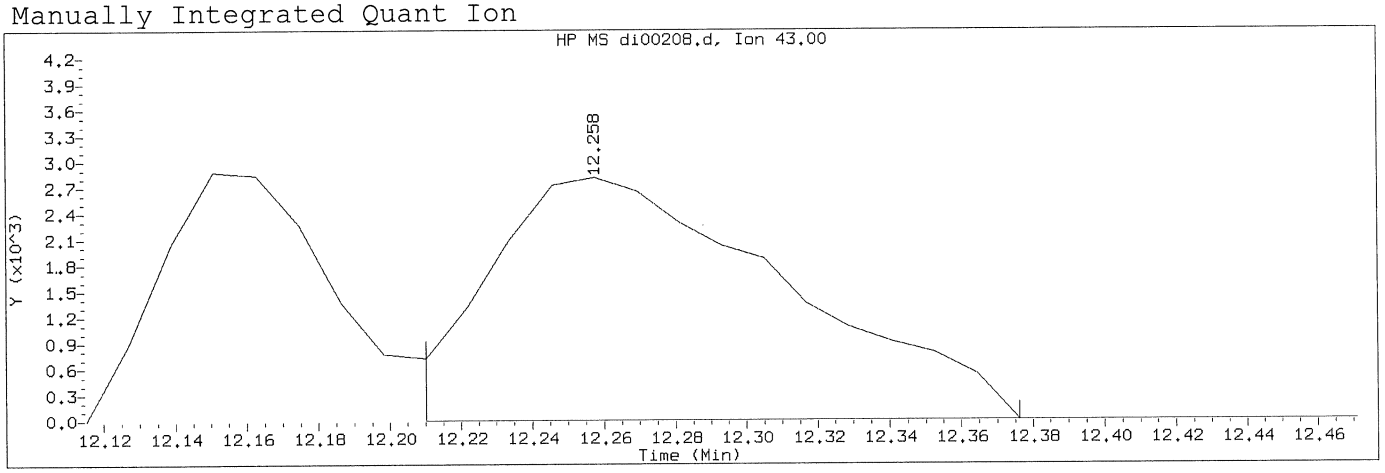
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.609
Quant Ion : 88.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

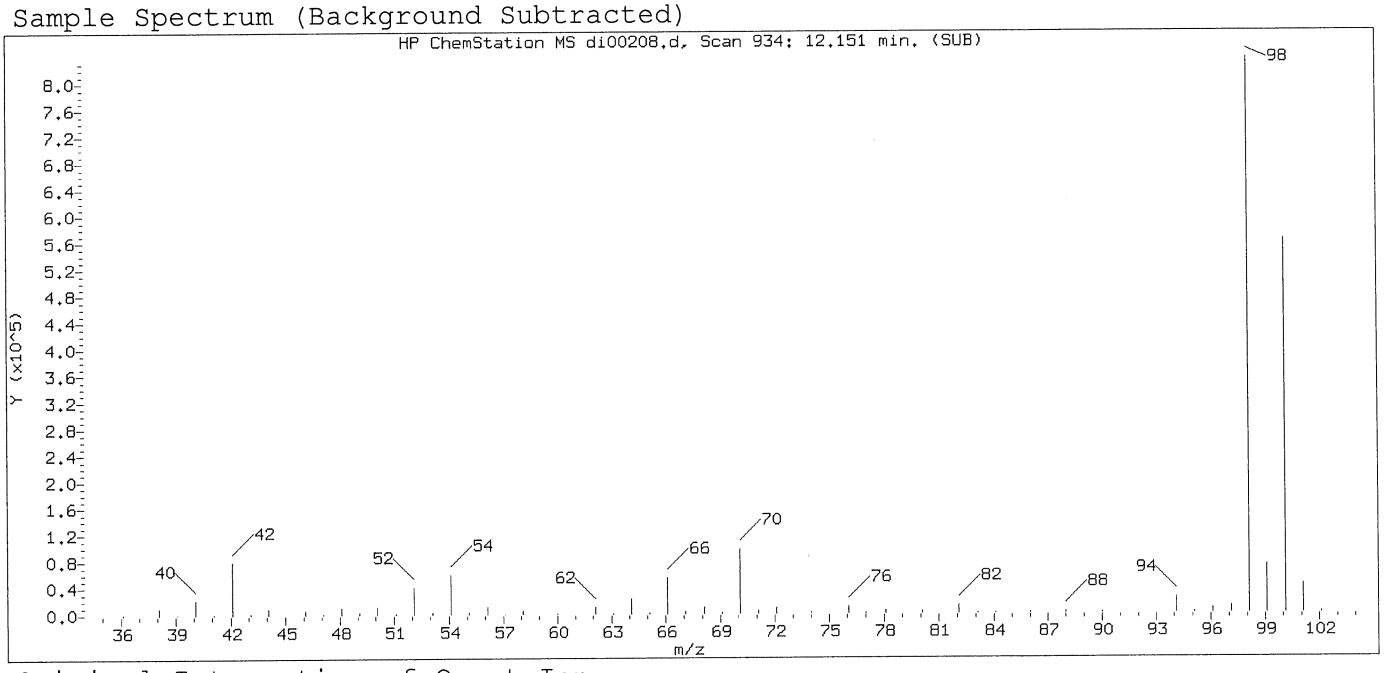
Compound Number	: 60		
Compound Name	: 4-Methyl-2-Pentanone		
Scan Number	: 943		
Retention Time (minutes)	: 12.258		
Quant Ion	: 43.00		
Area (flag)	: 16472M		
Concentration (ppb(v))	: 0.1559		
Integration start scan	: 938	Integration stop scan:	952
Y at integration start	: 1	Y at integration end:	1

Reason for manual integration: improper integration

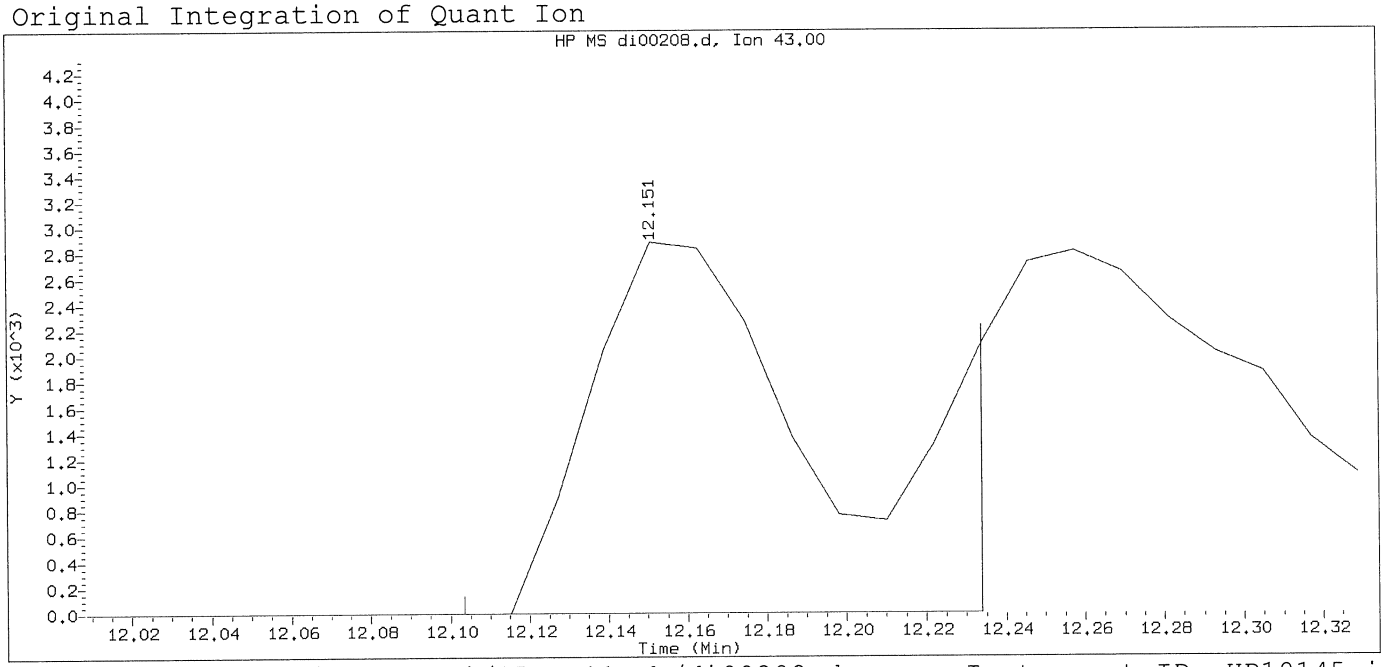
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: Amy 9/15/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

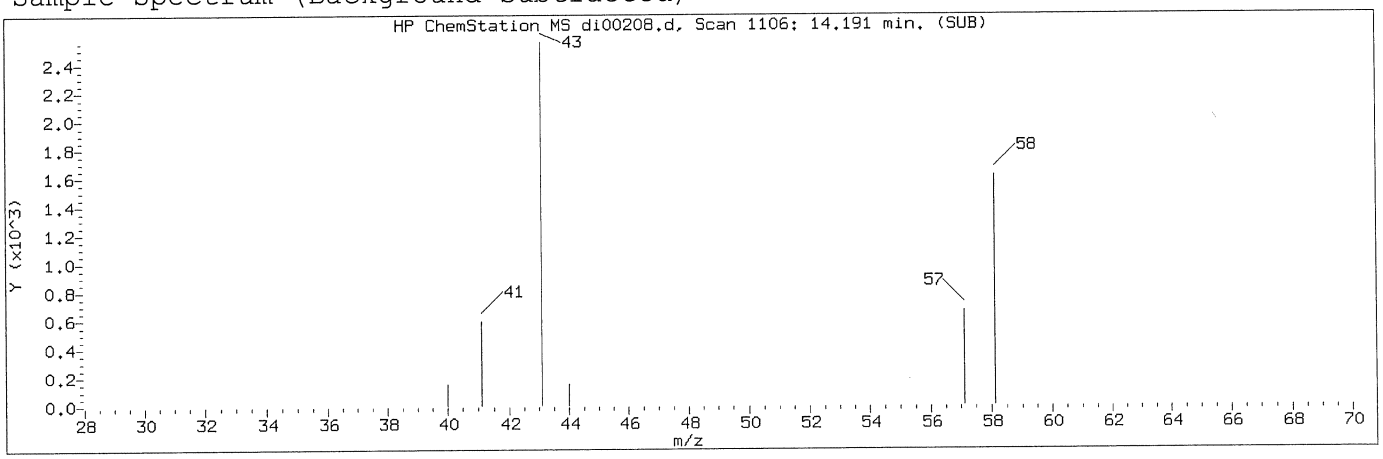
Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

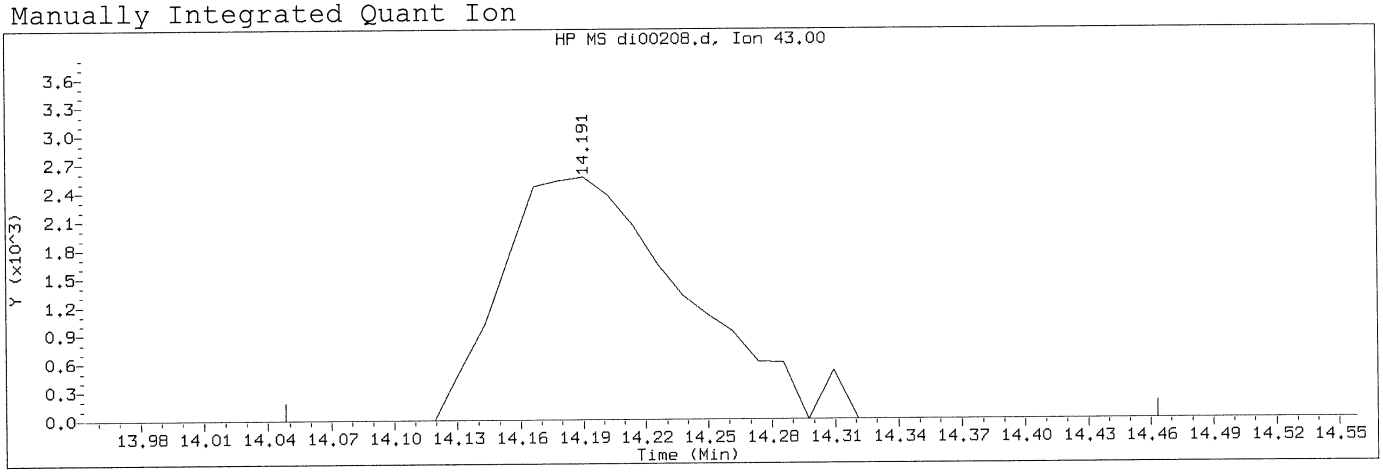
Compound Number	: 60		
Compound Name	: 4-Methyl-2-Pentanone		
Scan Number	: 934		
Retention Time (minutes)	: 12.151		
Quant Ion	: 43.00		
Area	: 11497		
Concentration (ppb(v))	: 0.1463		
Integration start scan	: 929	Integration stop scan:	940
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11a.b/to-15nj2a.m Sublist used: all
Calibration date and time: 14-SEP-2015 14:52
Date, time and analyst ID of latest file update: 14-Sep-2015 14:52 jeb07445

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

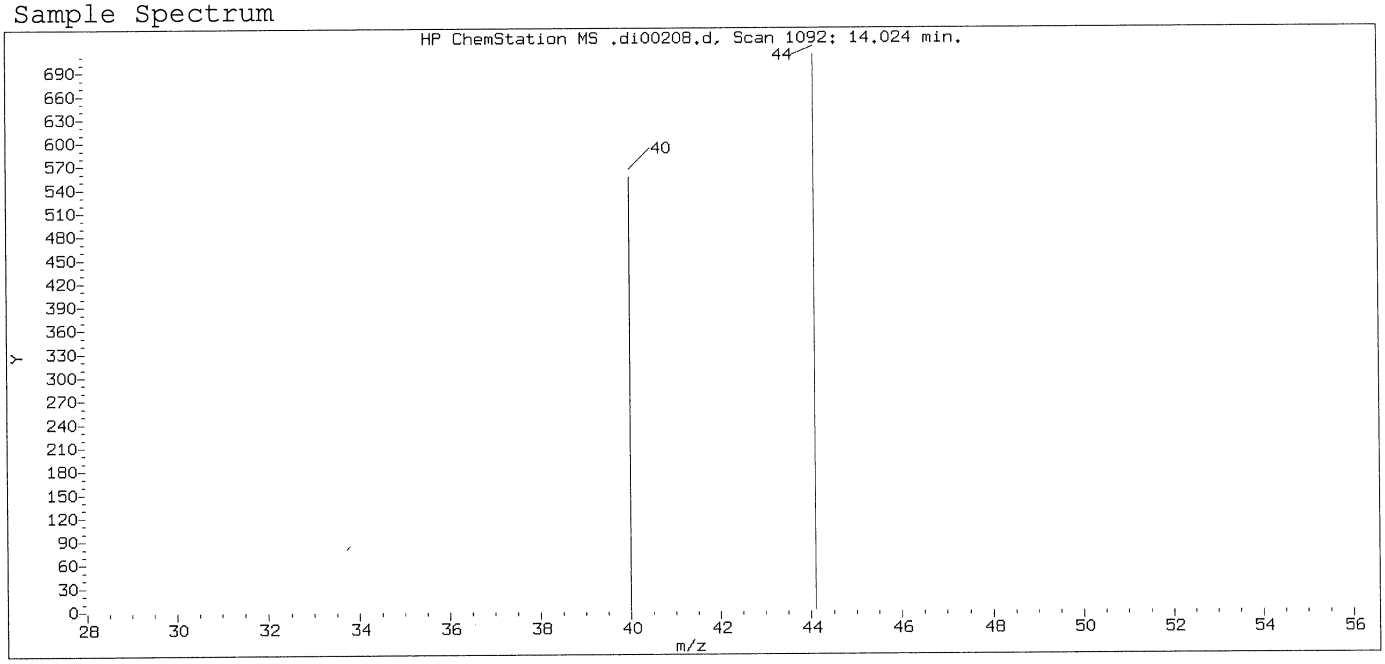
Compound Number	: 68		
Compound Name	: 2-Hexanone		
Scan Number	: 1106		
Retention Time (minutes)	: 14.191		
Quant Ion	: 43.00		
Area (flag)	: 15596M		
Concentration (ppb(v))	: 0.1635		
Integration start scan	: 1093	Integration stop scan:	1128
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

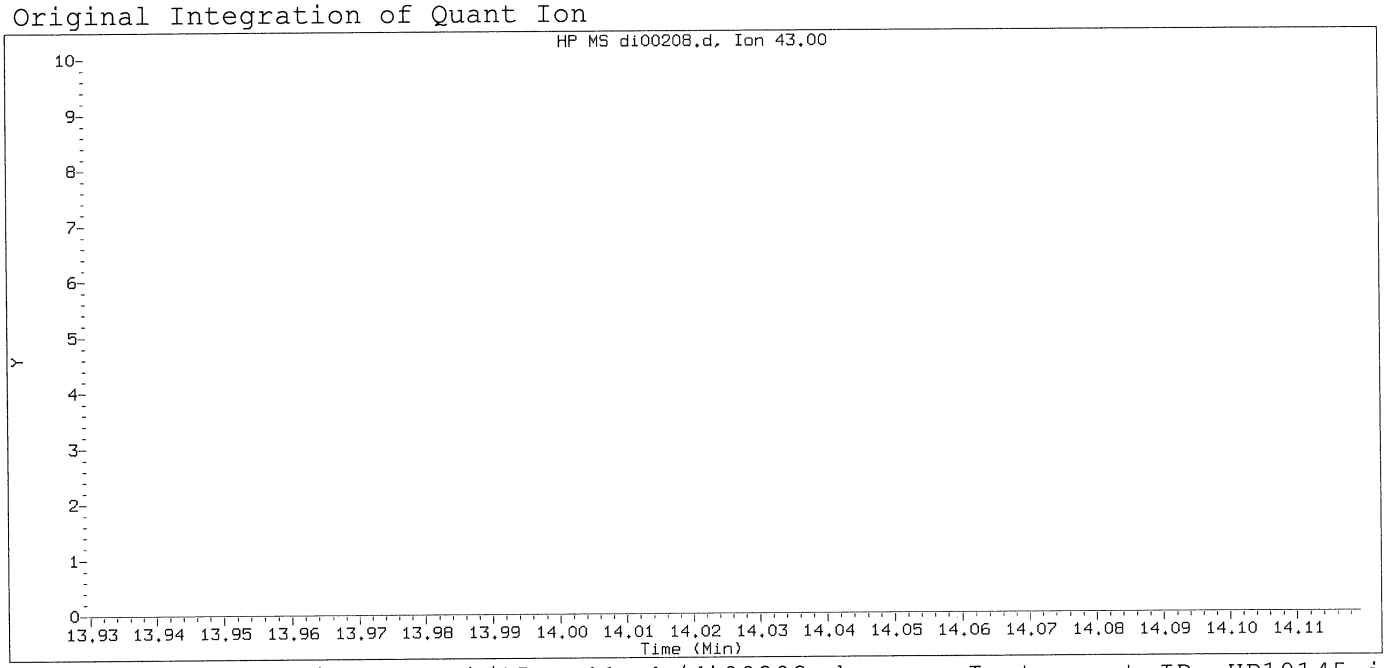
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: CMM 9/15/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep11a.b/di00208.d Instrument ID: HP10145.i
Injection date and time: 12-SEP-2015 05:40 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep11.b/to-15.m Sublist used: all
Calibration date and time: 11-SEP-2015 21:28
Date, time and analyst ID of latest file update: 14-Sep-2015 14:10 jbs01304

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

Compound Number : 68
Compound Name : 2-Hexanone
Expected RT (minutes) : 14.024
Quant Ion : 43.00

Digitally signed by Jacob E. Bailey on 09/14/2015 at 14:52.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP10145.i/15sep14.b/di00220.d

Page 1

Date : 14-SEP-2015 11:38

Client ID: 50NGBFB

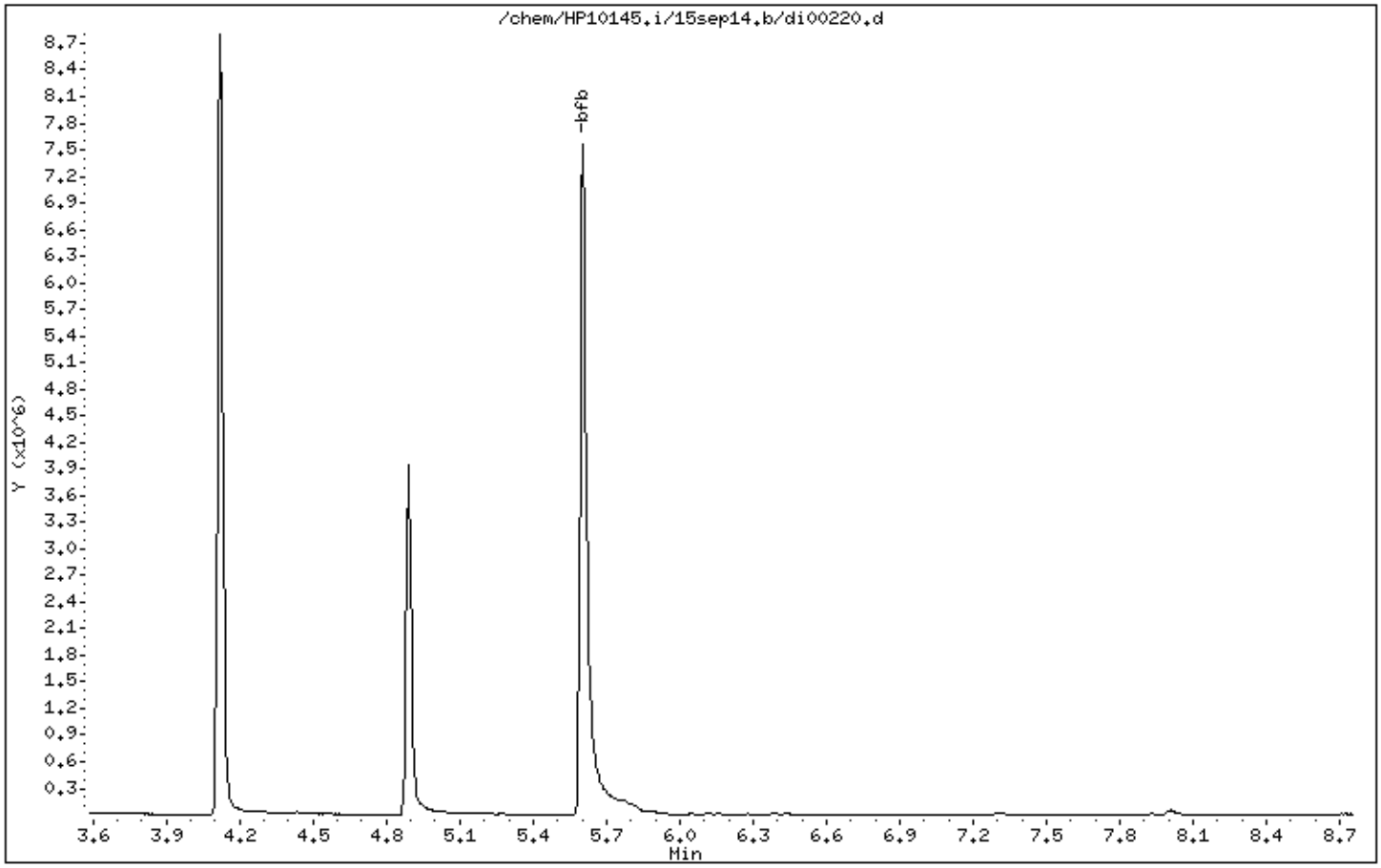
Instrument: HP10145.i

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

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:37.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP10145.i/15sep14.b/di00220.d

Date : 14-SEP-2015 11:38

Client ID: 50NGBFB

Instrument: HP10145.i

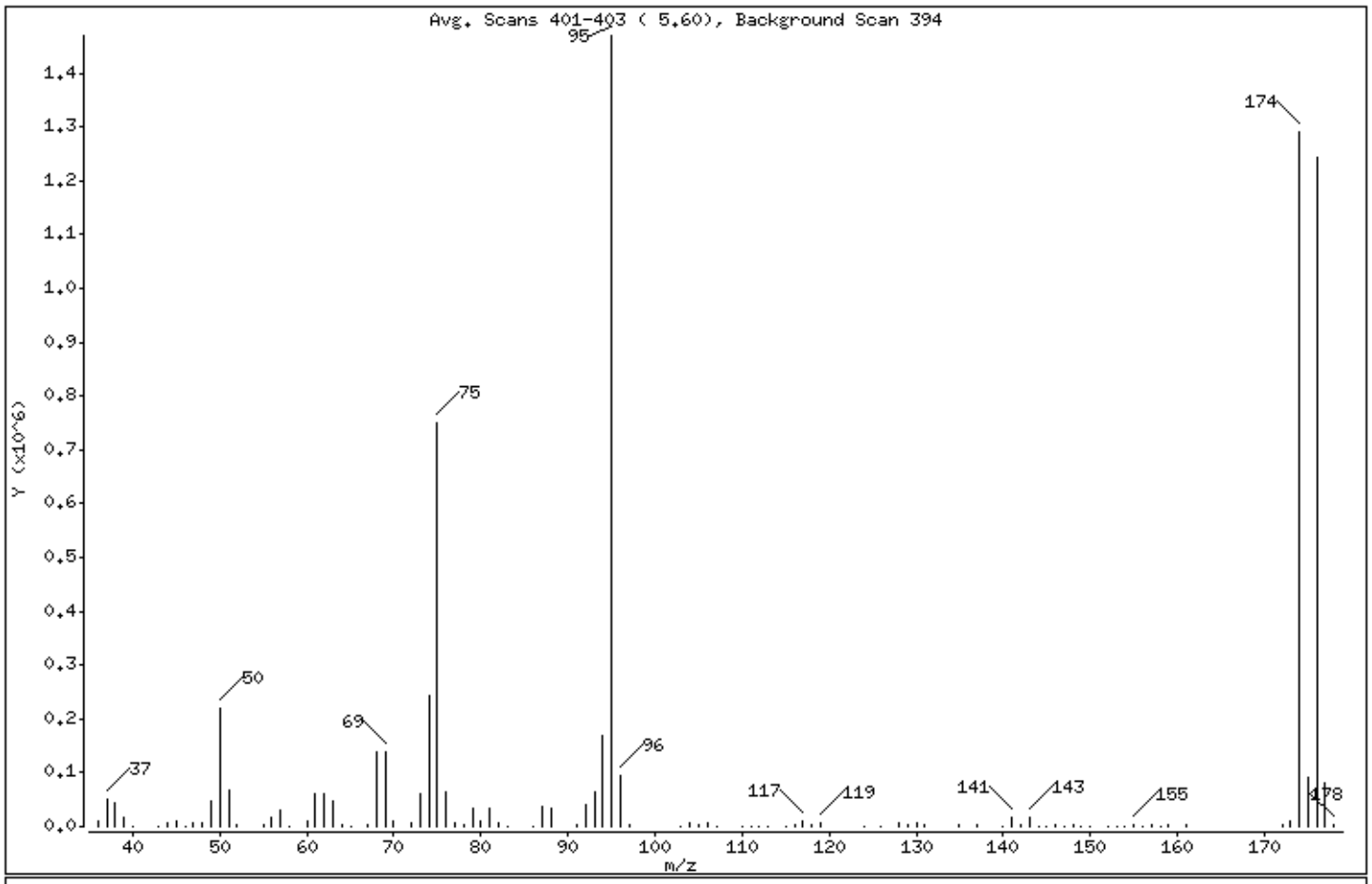
Sample Info: 50NGBFB;;;BFB;0;;;

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	14.91
75	30.00 - 66.00% of mass 95	51.04
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.65 (0.73)
174	50.00 - 120.00% of mass 95	87.87
175	4.00 - 9.00% of mass 174	6.26 (7.13)
176	93.00 - 101.00% of mass 174	84.49 (96.15)
177	5.00 - 9.00% of mass 176	5.56 (6.58)

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:37.
Target 3.5 esignature user ID: jeb07445

Date : 14-SEP-2015 11:38

Client ID: 50NGBFB Instrument: HP10145.i

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

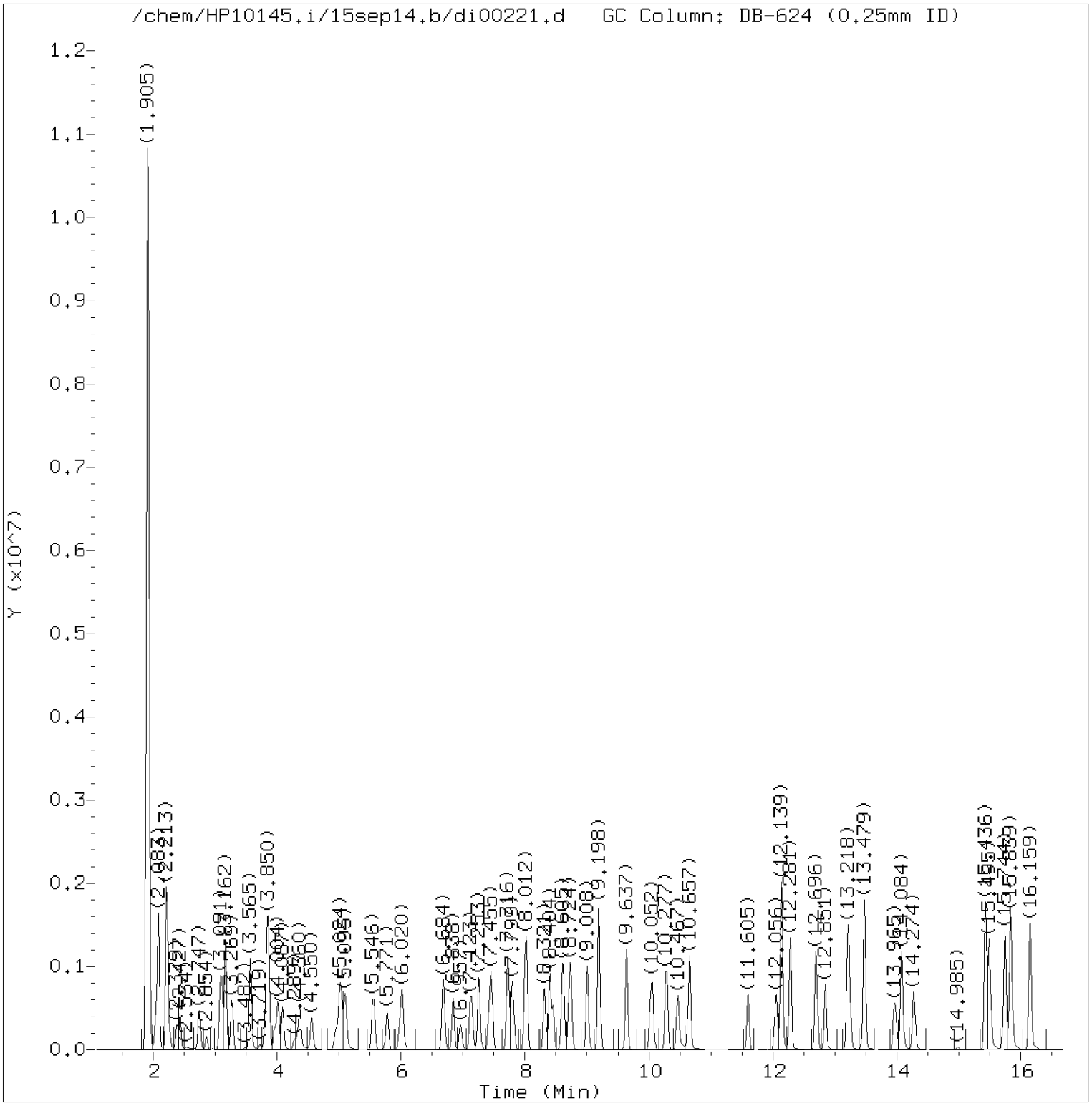
Operator: jeb07445

Column phase: DB-624 Column diameter: 0.25

Data File: di00220.d
Spectrum: Avg. Scans 401-403 (5,60), Background Scan 394
Location of Maximum: 95.00
Number of points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9230	68.00	138752	104.00	5610	145.00	1570
37.00	51368	69.00	139712	105.00	2240	146.00	2017
38.00	44176	70.00	10712	106.00	5879	147.00	1069
39.00	16944	72.00	6896	107.00	1210	148.00	3864
40.00	472	73.00	60000	110.00	830	149.00	968
43.00	683	74.00	242432	111.00	1055	150.00	1623
44.00	5618	75.00	749952	112.00	833	152.00	775
45.00	8952	76.00	62600	113.00	993	153.00	1092
46.00	766	77.00	6088	115.00	1552	154.00	927
47.00	6536	78.00	3576	116.00	4737	155.00	3905
48.00	6582	79.00	33536	117.00	9122	156.00	224
49.00	48704	80.00	9912	118.00	5027	157.00	2959
50.00	219072	81.00	34248	119.00	7237	158.00	210
51.00	66208	82.00	6954	124.00	747	159.00	2189
52.00	3012	83.00	785	126.00	214	161.00	2143
55.00	3267	86.00	900	128.00	5209	172.00	2887
56.00	17336	87.00	36160	129.00	2657	173.00	9486
57.00	32000	88.00	34312	130.00	5415	174.00	1291264
58.00	1261	91.00	4893	131.00	2060	175.00	92056
60.00	11700	92.00	40544	135.00	2488	176.00	1241600
61.00	60896	93.00	62824	137.00	2645	177.00	81664
62.00	60384	94.00	168896	140.00	1084	178.00	2334
63.00	45736	95.00	1469440	141.00	15990		
64.00	4964	96.00	95896	142.00	1937		
65.00	1682	97.00	2676	143.00	16408		
67.00	3423	103.00	529	144.00	1050		

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:37.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

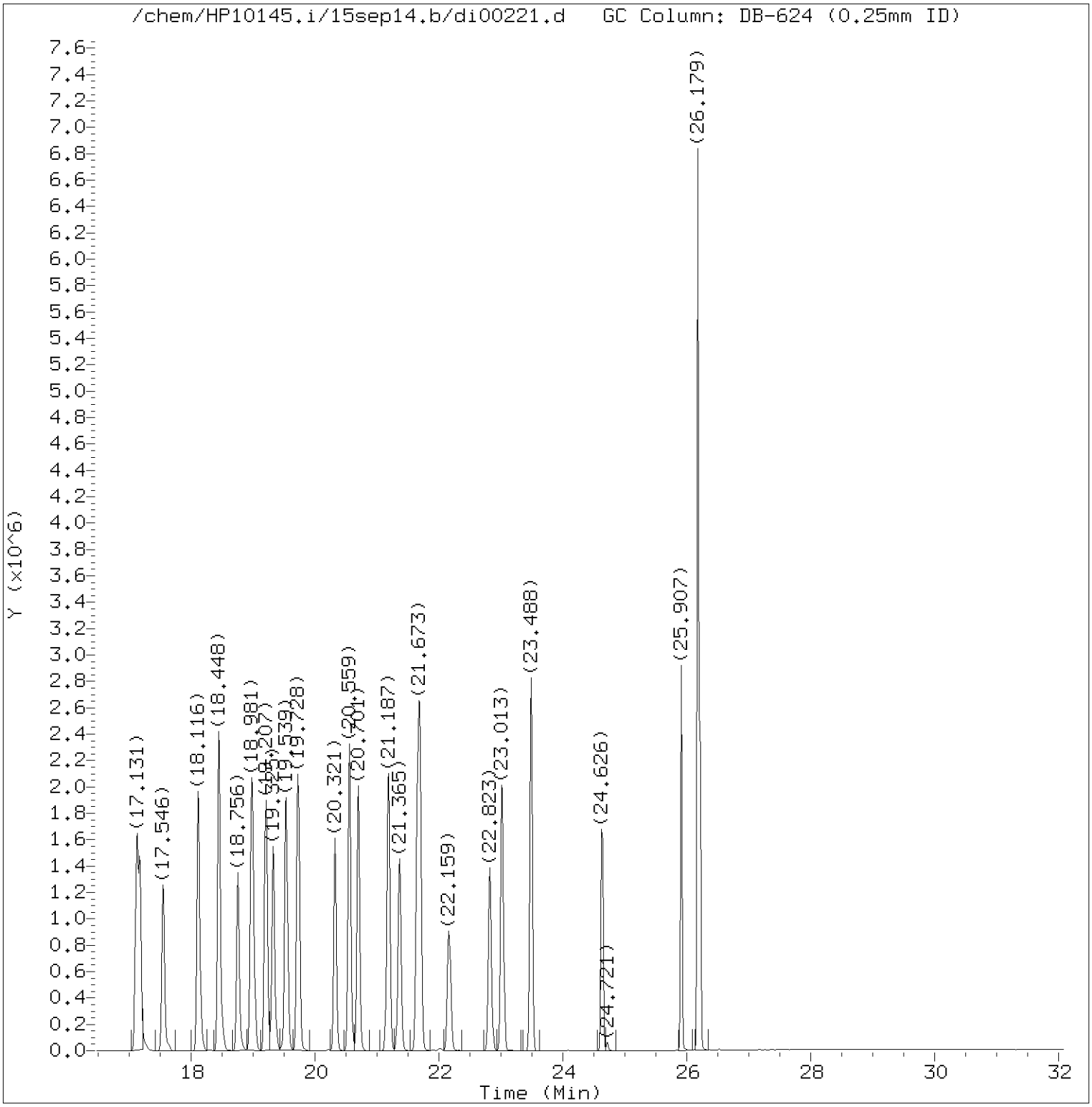
Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.036	41	207510	8.744
2) Dichlorodifluoromethane	(1)	2.083	85	1761834	9.919
3) Chlorodifluoromethane	(1)	2.083	51	591081	10.040
4) Freon 114	(1)	2.213	85	1285099	8.830
5) Chloromethane	(1)	2.261	52	95545	8.439
6) Vinyl Chloride	(1)	2.379	62	397331	8.890
7) 1,3-Butadiene	(1)	2.427	54	243033	8.869
8) Bromomethane	(1)	2.747	94	457111	8.594
9) Chloroethane	(1)	2.866	64	203555	8.244
10) Bromoethene	(1)	3.079	106	447270	9.459
11) Dichlorofluoromethane	(1)	3.103	67	1001937	9.266
12) Trichlorofluoromethane	(1)	3.162	101	1652897	9.579
13) Pentane	(1)	3.269	43	447214	8.735
14) Ethanol	(1)	3.553	45	74499M	5.303
15) Freon123a	(1)	3.565	67	830660	9.137
16) Acrolein	(1)	3.719	56	72318	6.348
17) 1,1-Dichloroethene	(1)	3.814	61	655830	9.248
18) Freon 113	(1)	3.850	103	621133	8.481
19) Acetone	(1)	3.957	43	482712	9.584
20) Methyl Iodide	(1)	4.004	142	955245	9.263
21) Carbon Disulfide	(1)	4.087	76	1225213	8.387
22) Isopropanol	(1)	4.289	45	521909M	8.631
23) Acetonitrile	(1)	4.360	40	136712	10.948
24) 3-Chloropropene	(1)	4.360	76	193625	9.175
25) Methylene Chloride	(1)	4.561	84	360568	9.474
26) tert-Butyl Alcohol	(1)	4.965	59	940792	10.728
27) Acrylonitrile	(1)	5.012	53	207352	9.301
28) trans-1,2-Dichloroethene	(1)	5.024	61	561028	10.337
29) Methyl t-Butyl Ether	(1)	5.095	73	1318322	10.238
30) Hexane	(1)	5.558	57	508028	8.543
31) 1,1-Dichloroethane	(1)	5.771	63	737723	8.860
32) Vinyl Acetate	(1)	5.973	86	75034	7.064
33) Di-Isopropyl Ether	(1)	6.020	45	919715	8.719
36) 1,2-Dichloroethene (total)	(1)		61	1112441	19.625
34) Ethyl Tert-Butyl Ether	(1)	6.684	59	1273954	9.001
35) cis-1,2-Dichloroethene	(1)	6.838	61	551413	9.288
37) 2-Butanone	(1)	6.957	72	211070M	9.292
38) Ethyl Acetate	(1)	7.123	70	132964	9.599

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.135	55	544245	9.165
40)*Bromochloromethane	(1)	7.265	130	552449	10.000
41) Tetrahydrofuran	(1)	7.407	42	280508	8.694
42) Chloroform	(1)	7.455	83	1092042	9.255
43) 1,1,1-Trichloroethane	(1)	7.728	97	1354319	9.724
44) Cyclohexane	(1)	7.799	56	542933	8.731
45) Carbon Tetrachloride	(1)	8.012	117	1479554	10.270
46) Benzene	(2)	8.404	78	1371273	8.682
47) 1,2-Dichloroethane	(2)	8.451	62	716188	9.560
48) Isooctane	(2)	8.605	57	1726259	8.733
49) Tert-Amyl Methyl Ether	(2)	8.724	73	1520601	9.584
50) Heptane	(2)	9.008	43	488431	8.411
51)*1,4-Difluorobenzene	(2)	9.198	114	2226235	10.000
52) Trichloroethene	(2)	9.637	130	605280	8.639
53) Ethyl Acrylate	(2)	10.016	55	717670	9.291
54) 1,2-Dichloropropane	(2)	10.064	63	414473	8.445
55) Dibromomethane	(2)	10.289	174	640314	8.971
57) Methyl Methacrylate	(2)	10.467	69	448261	8.787
56) 1,4-Dioxane	(2)	10.514	88	320338M	8.947
58) Bromodichloromethane	(2)	10.657	83	1209081	9.133
59) cis-1,3-Dichloropropene	(2)	11.605	75	670940	8.252
60) 4-Methyl-2-Pentanone	(2)	12.056	43	681733	8.185
61) Toluene	(3)	12.281	91	1732919	9.161
62) Octane	(3)	12.696	43	649848	8.675
63) trans-1,3-Dichloropropene	(3)	12.851	75	797538	9.683
64) 1,3-Dichloropropene (total)	(3)		75	1468478	17.935
65) Ethyl Methacrylate	(3)	13.206	69	776316	9.011
66) 1,1,2-Trichloroethane	(3)	13.230	97	617406	9.519
67) Tetrachloroethene	(3)	13.479	166	997249	8.430
68) 2-Hexanone	(3)	13.965	43	702711	9.472
69) Dibromochloromethane	(3)	14.084	127	887925	8.983
70) 1,2-Dibromoethane	(3)	14.274	107	874587	8.539
71)*Chlorobenzene-d5	(3)	15.436	117	1906987	10.000
72) Chlorobenzene	(3)	15.495	112	1342770	8.891
73) 1,1,1,2-Tetrachloroethane	(3)	15.744	131	835169	9.672
74) Ethylbenzene	(3)	15.839	91	2371588	9.348
75) m/p-Xylene	(3)	16.159	91	1951530	8.820
76) o-Xylene	(3)	17.120	91	2051441	9.786

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

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

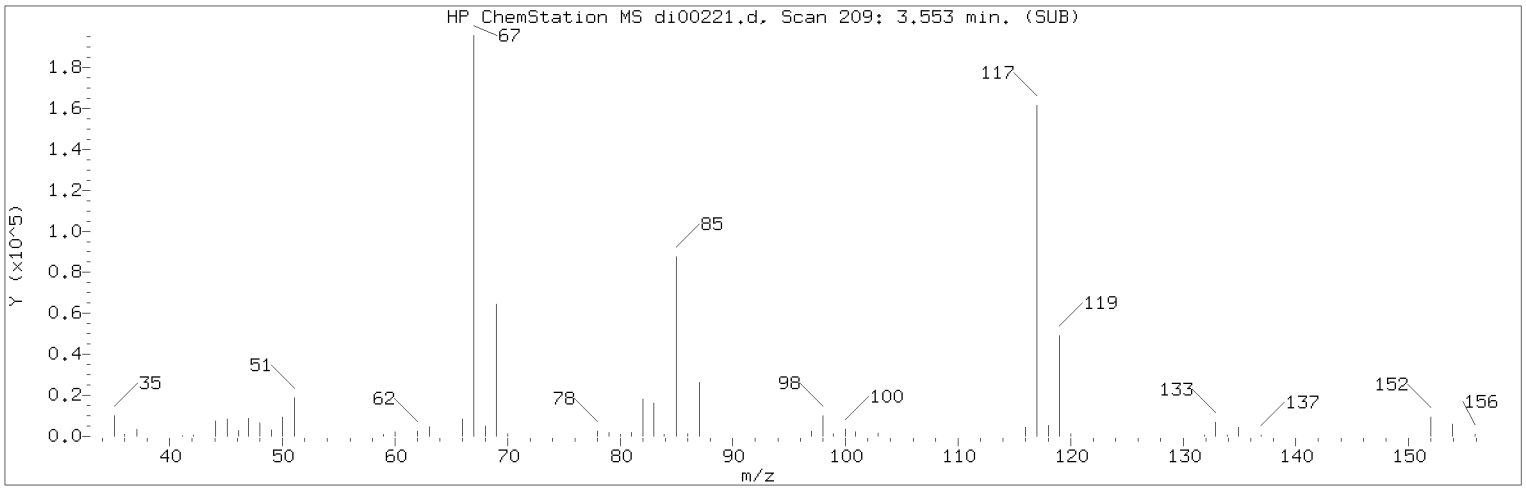
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	1409501	9.034
77) Xylene (total)	(3)		91	4002971	18.607
79) Bromoform	(3)	17.546	173	1230273	9.340
80) Cumene	(3)	18.116	105	2811855	9.431
81) Bromobenzene	(3)	18.756	156	821354	9.151
82) 1,1,2,2-Tetrachloroethane	(3)	18.969	83	1355889	9.164
83) 1,2,3-Trichloropropane	(3)	19.005	110	447250	9.178
84) n-Propylbenzene	(3)	19.207	120	711678	8.856
85) 2-Chlorotoluene	(3)	19.325	126	595942	9.071
86) 4-Ethyltoluene	(3)	19.539	105	2753886	9.178
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	2543861	9.475
88) Alpha Methyl Styrene	(3)	20.321	118	1023716	9.192
89) tert-Butylbenzene	(3)	20.559	119	2447649	9.413
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	2511831M	9.463
91) sec-Butylbenzene	(3)	21.187	105	3450125	9.359
92) 1,3-Dichlorobenzene	(3)	21.365	146	1479540	9.473
93) 1,4-Dichlorobenzene	(3)	21.649	146	1399007	8.960
94) p-Isopropyltoluene	(3)	21.685	119	2926862	9.405
95) Benzyl Chloride	(3)	22.159	91	1720913	8.485
96) 1,2-Dichlorobenzene	(3)	22.823	146	1352498	9.097
97) n-Butylbenzene	(3)	23.013	91	2497155	9.138
98) Hexachloroethane	(3)	23.488	117	1007720	11.281
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	737992	8.371
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1040498	9.192
101) Hexachlorobutadiene	(3)	26.179	225	1615795	9.508
102) Naphthalene	(3)	26.215	128	2051057	10.462

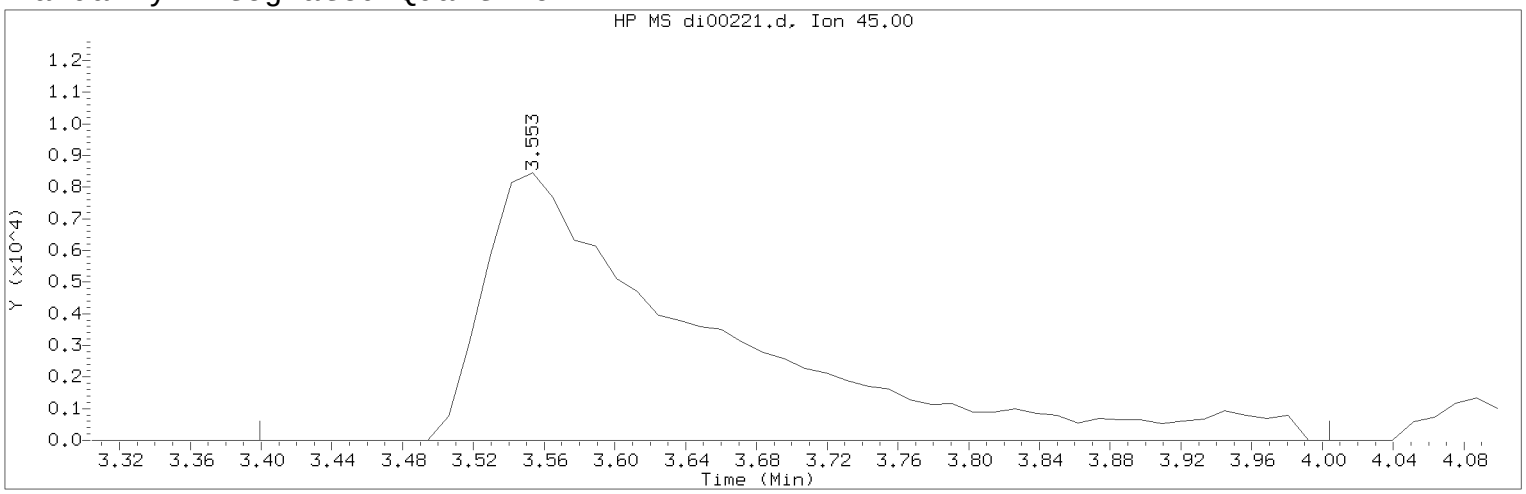
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

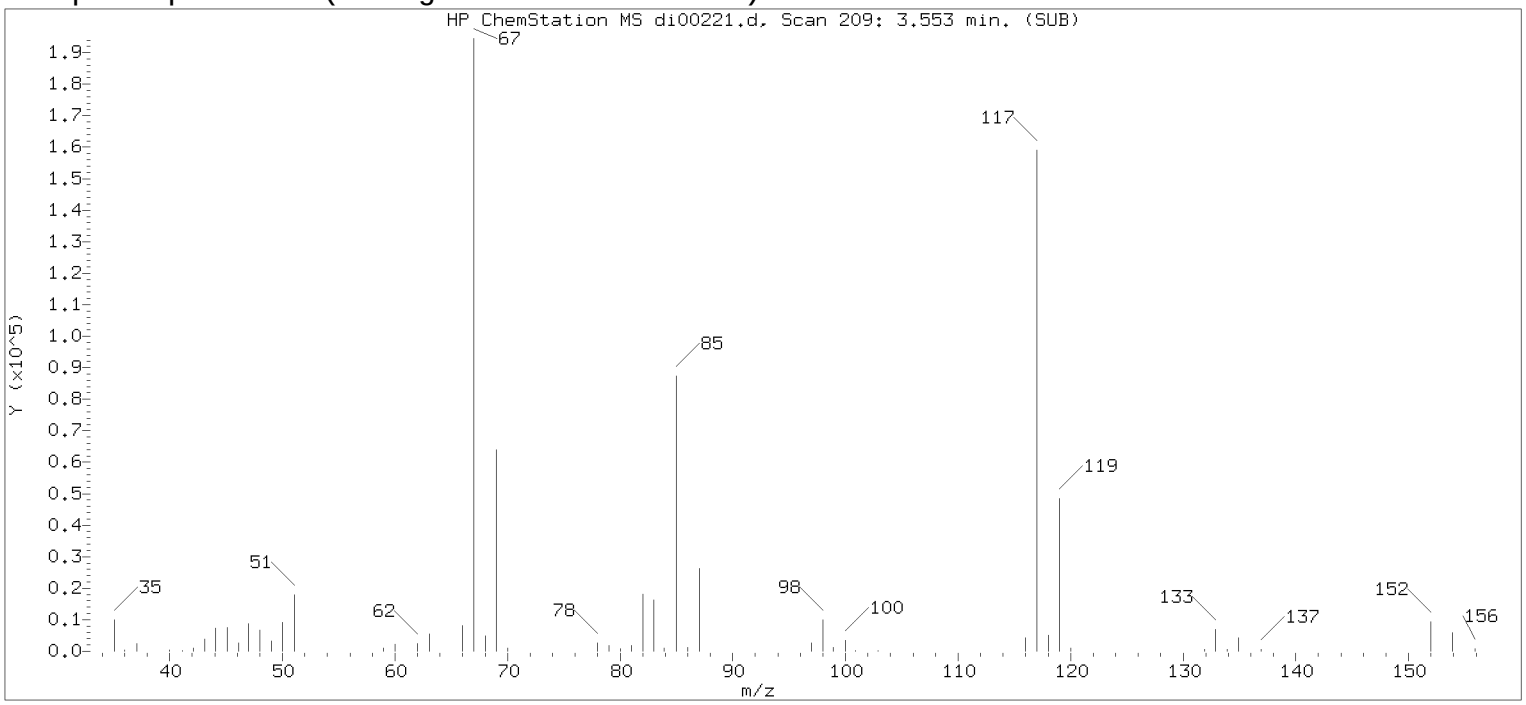
Compound Number : 14
Compound Name : Ethanol
Scan Number : 209
Retention Time (minutes): 3.553
Quant Ion : 45.00
Area (flag) : 74499M
Concentration (ppb(v)) : 5.3028
Integration start scan : 195 Integration stop scan: 246
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

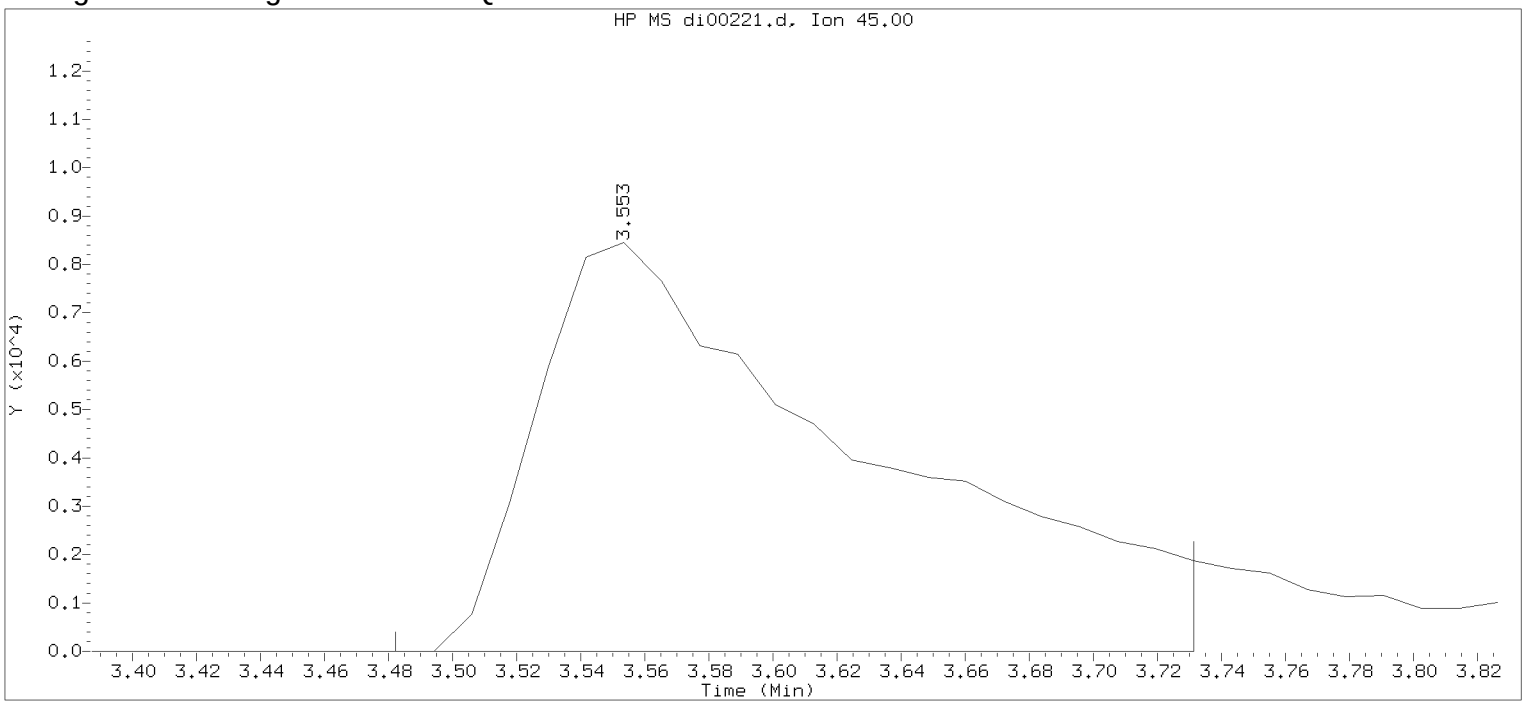
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/15/2015 at 16:17.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

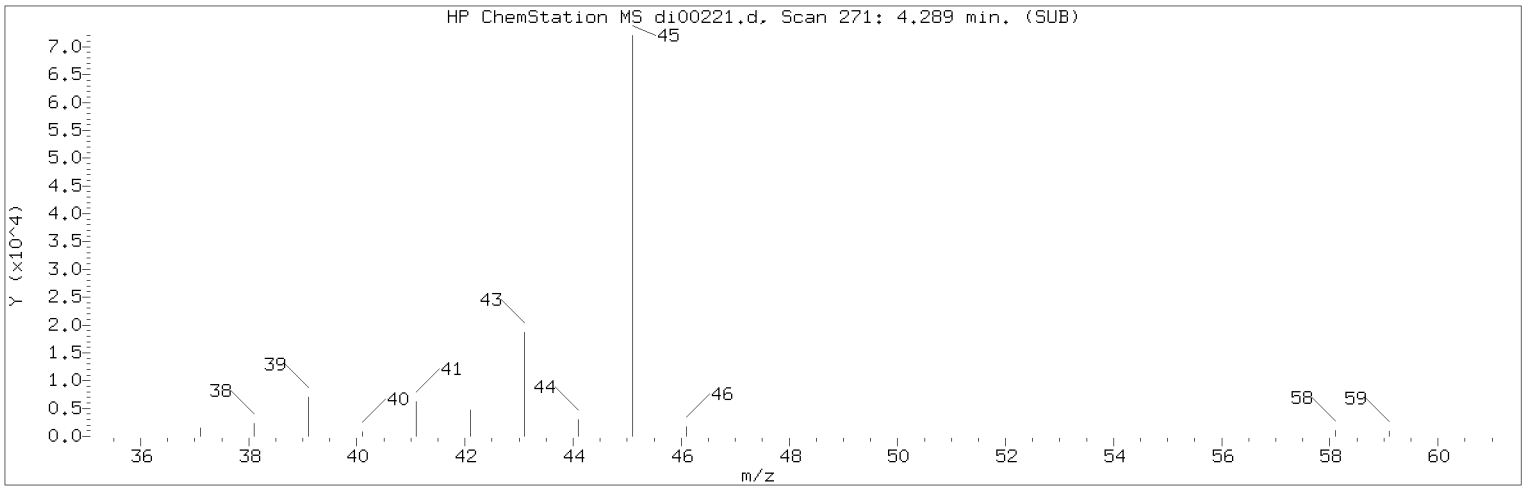
Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:25
Date, time and analyst ID of latest file update: 14-Sep-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

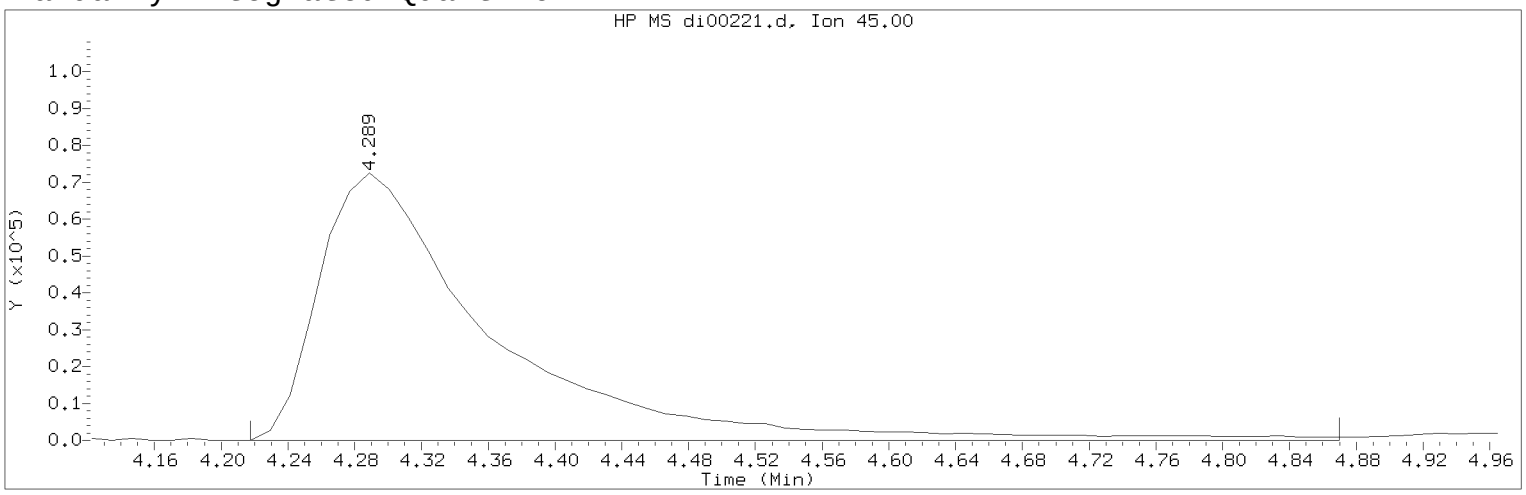
Compound Number : 14
Compound Name : Ethanol
Scan Number : 209
Retention Time (minutes): 3.553
Quant Ion : 45.00
Area : 60394
Concentration (ppb(v)) : 4.2989
Integration start scan : 202 Integration stop scan: 223
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:42.
Target 3.5 esignature uses SSX23 page 1443

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

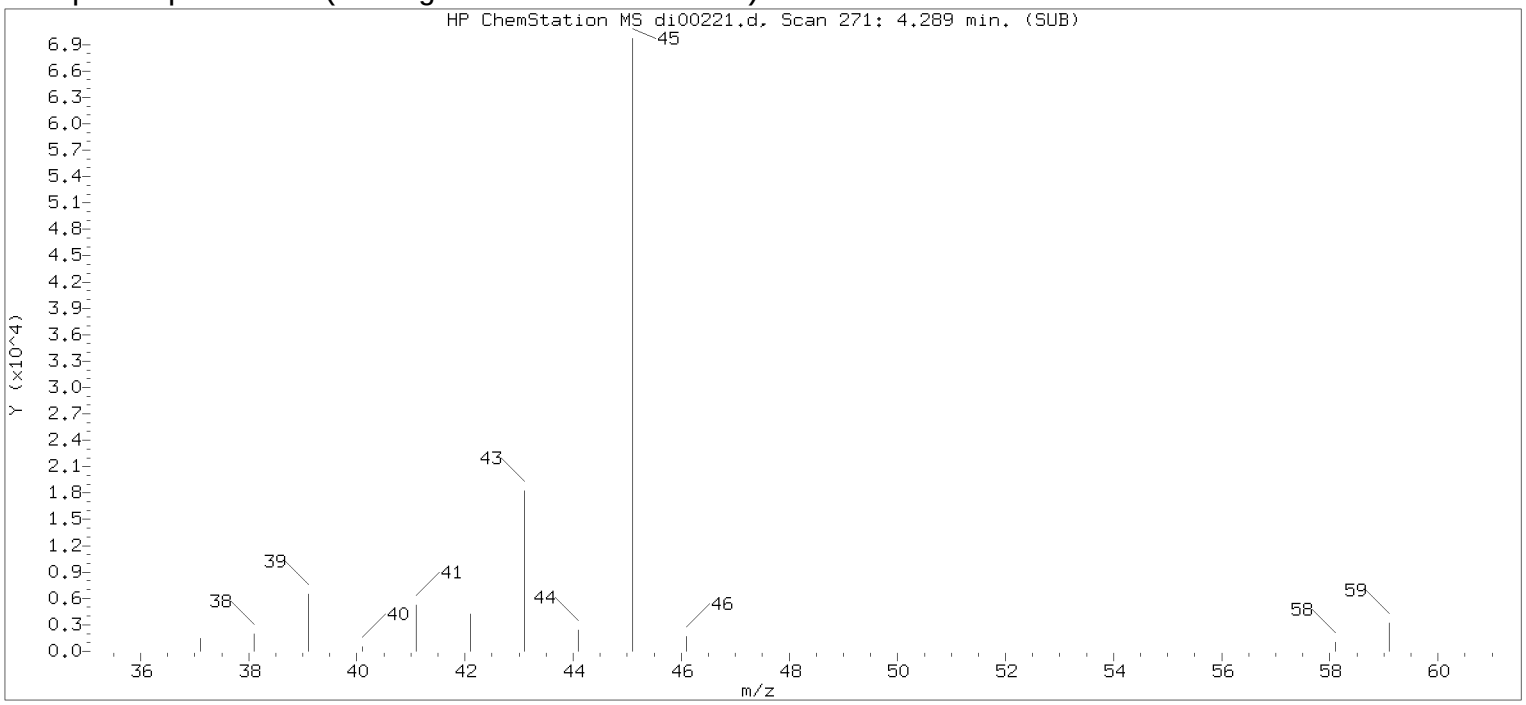
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 271
Retention Time (minutes): 4.289
Quant Ion : 45.00
Area (flag) : 521909M
Concentration (ppb(v)) : 8.6305
Integration start scan : 264 Integration stop scan: 319
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

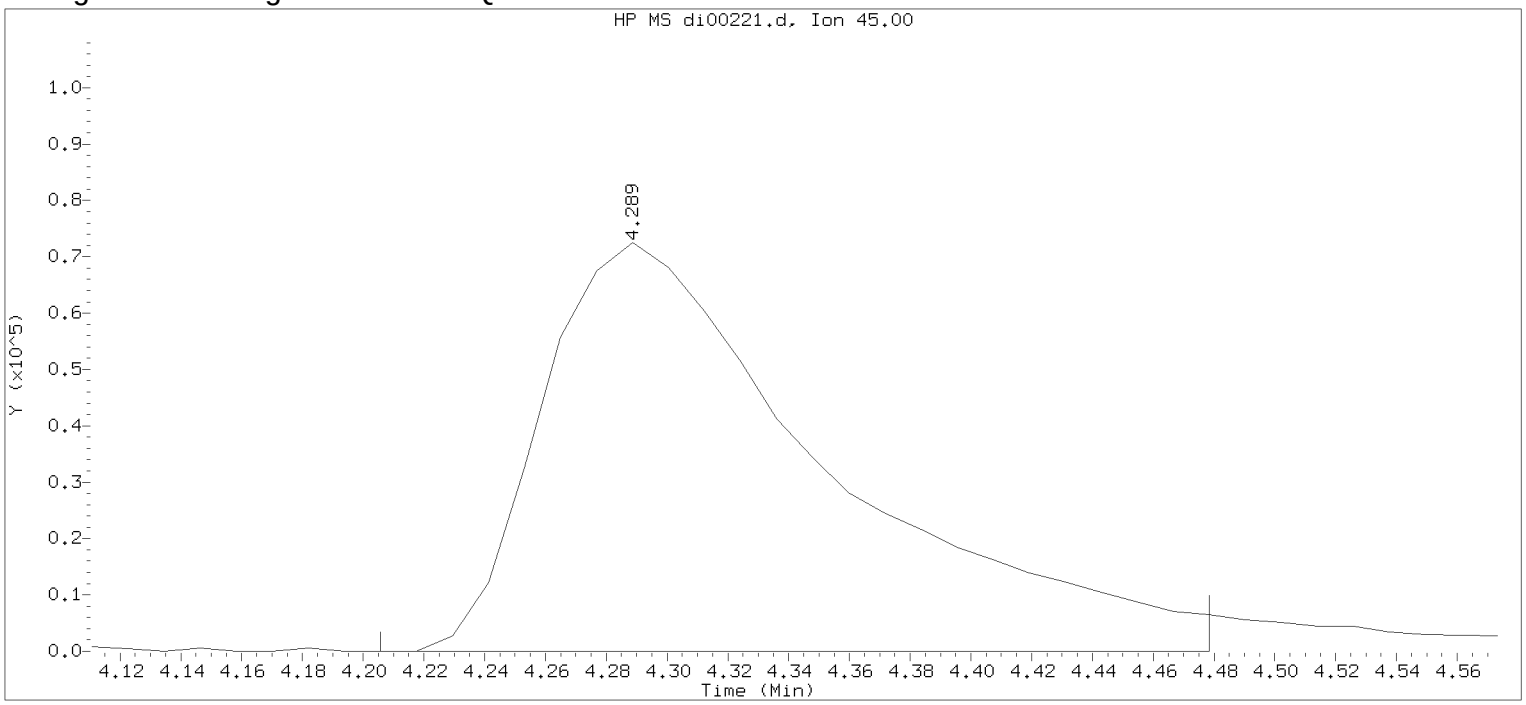
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/15/2015 at 16:17.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

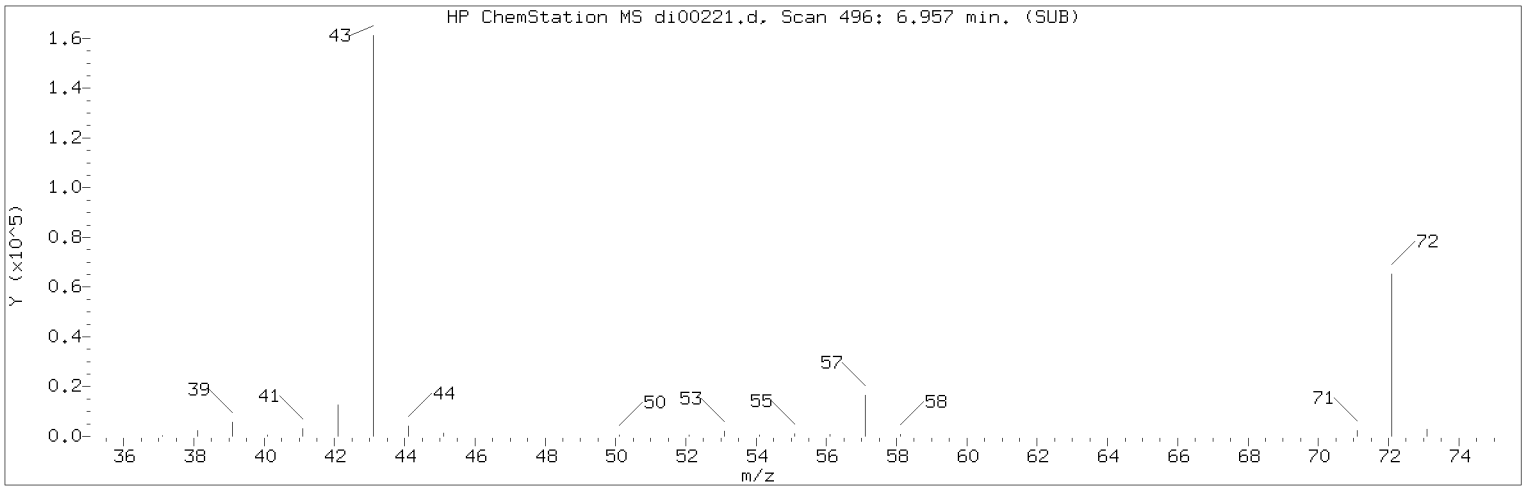
Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:25
Date, time and analyst ID of latest file update: 14-Sep-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

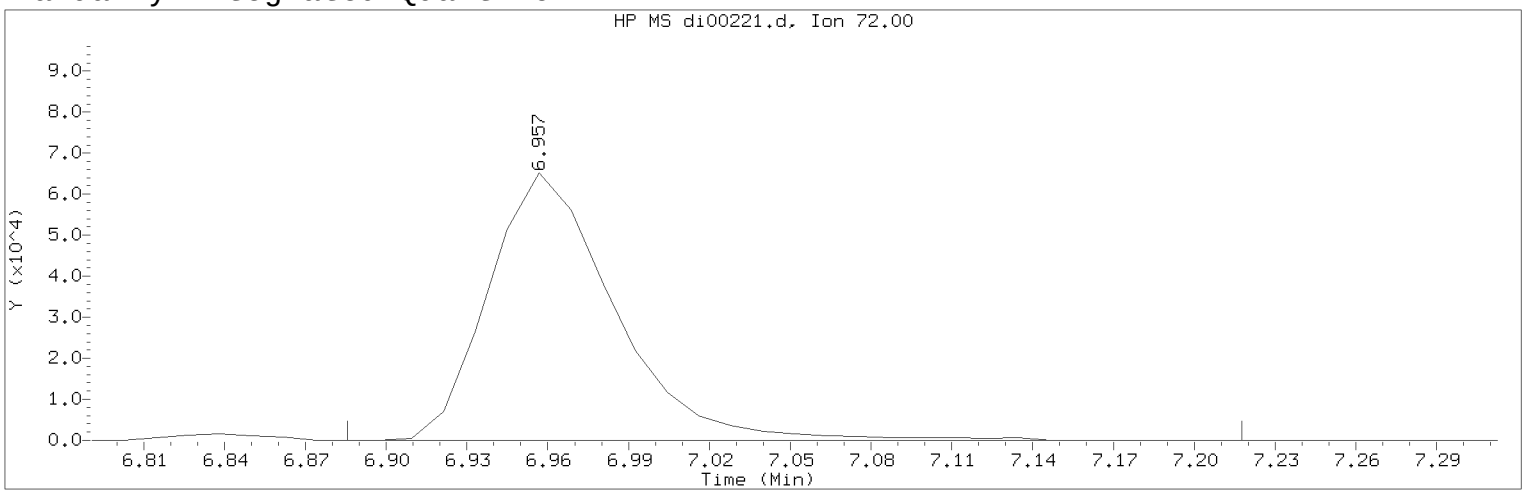
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 271
Retention Time (minutes): 4.289
Quant Ion : 45.00
Area : 472013
Concentration (ppb(v)) : 7.8054
Integration start scan : 263 Integration stop scan: 286
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:42.
Target 3.5 esignature used 3 Feb 07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

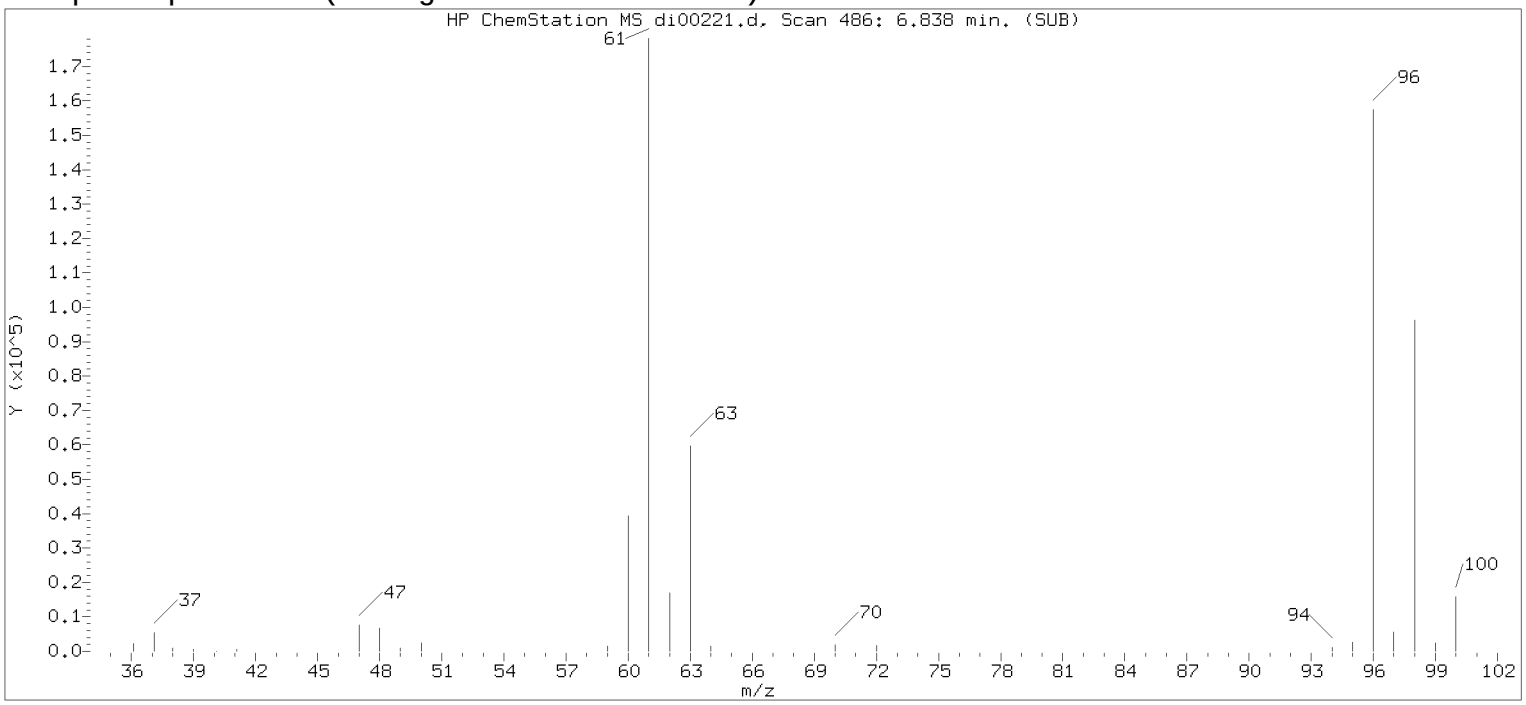
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 496
Retention Time (minutes): 6.957
Quant Ion : 72.00
Area (flag) : 211070M
Concentration (ppb(v)) : 9.2916
Integration start scan : 489 Integration stop scan: 517
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

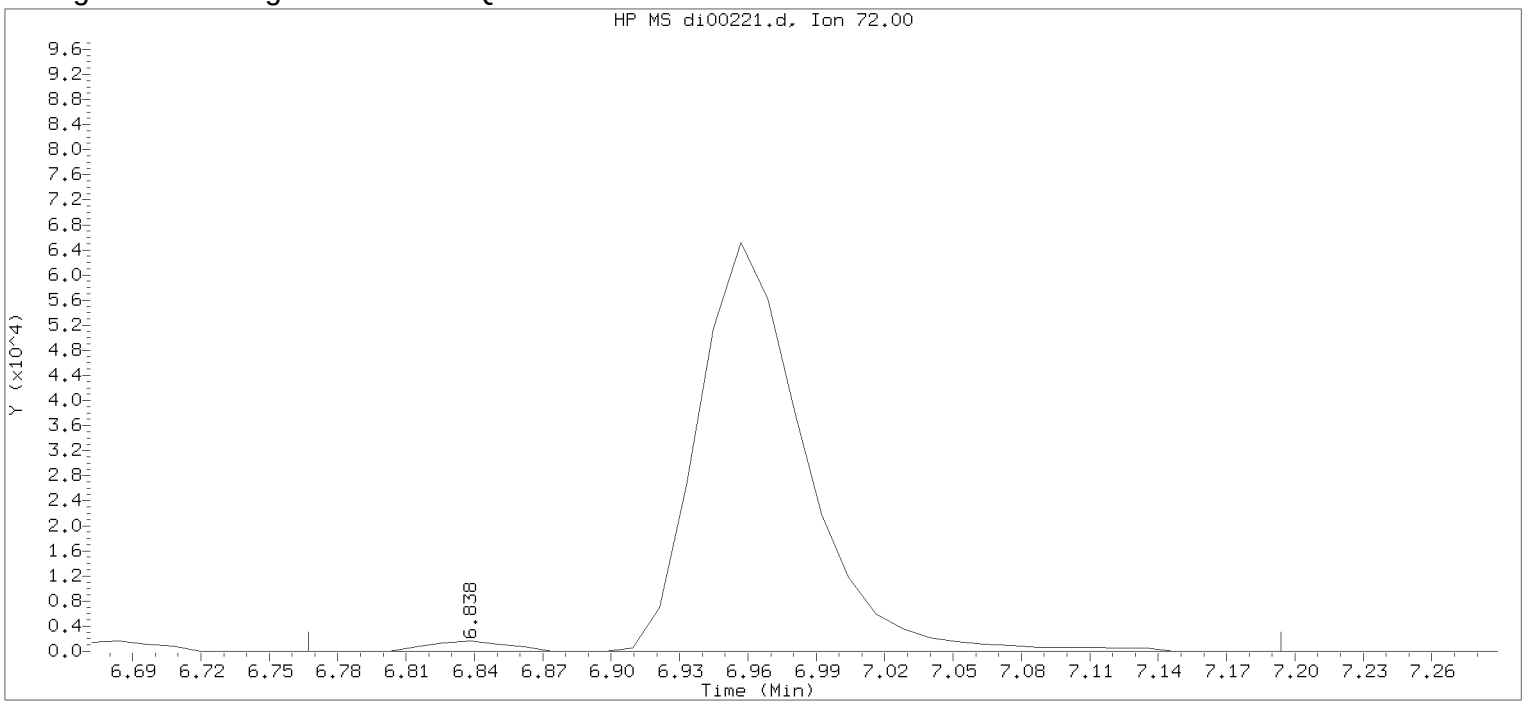
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/15/2015 at 16:17.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

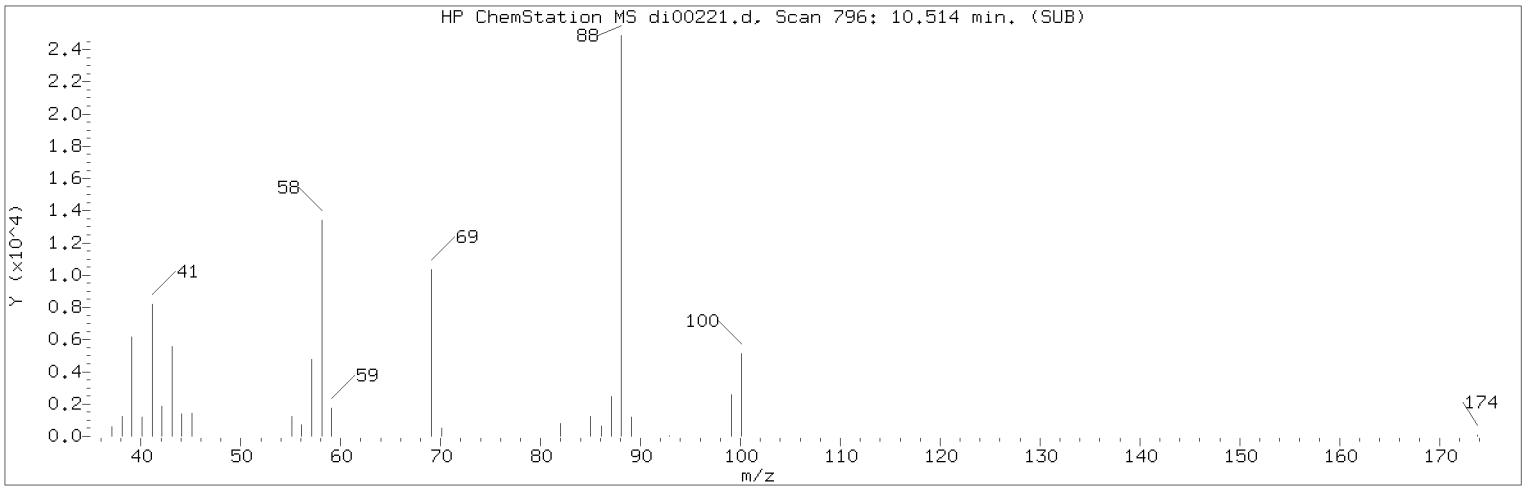
Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:25
Date, time and analyst ID of latest file update: 14-Sep-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

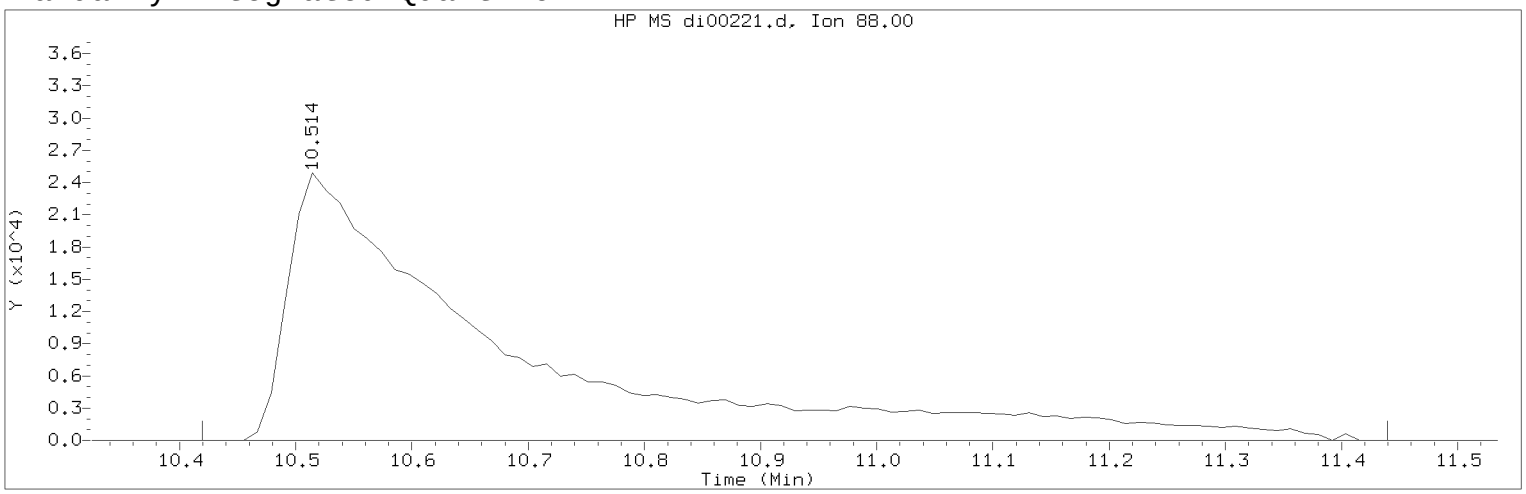
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 486
Retention Time (minutes): 6.838
Quant Ion : 72.00
Area : 214997
Concentration (ppb(v)) : 9.4644
Integration start scan : 479 Integration stop scan: 515
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:42.
Target 3.5 esignature used 3XD3 Page 1425

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

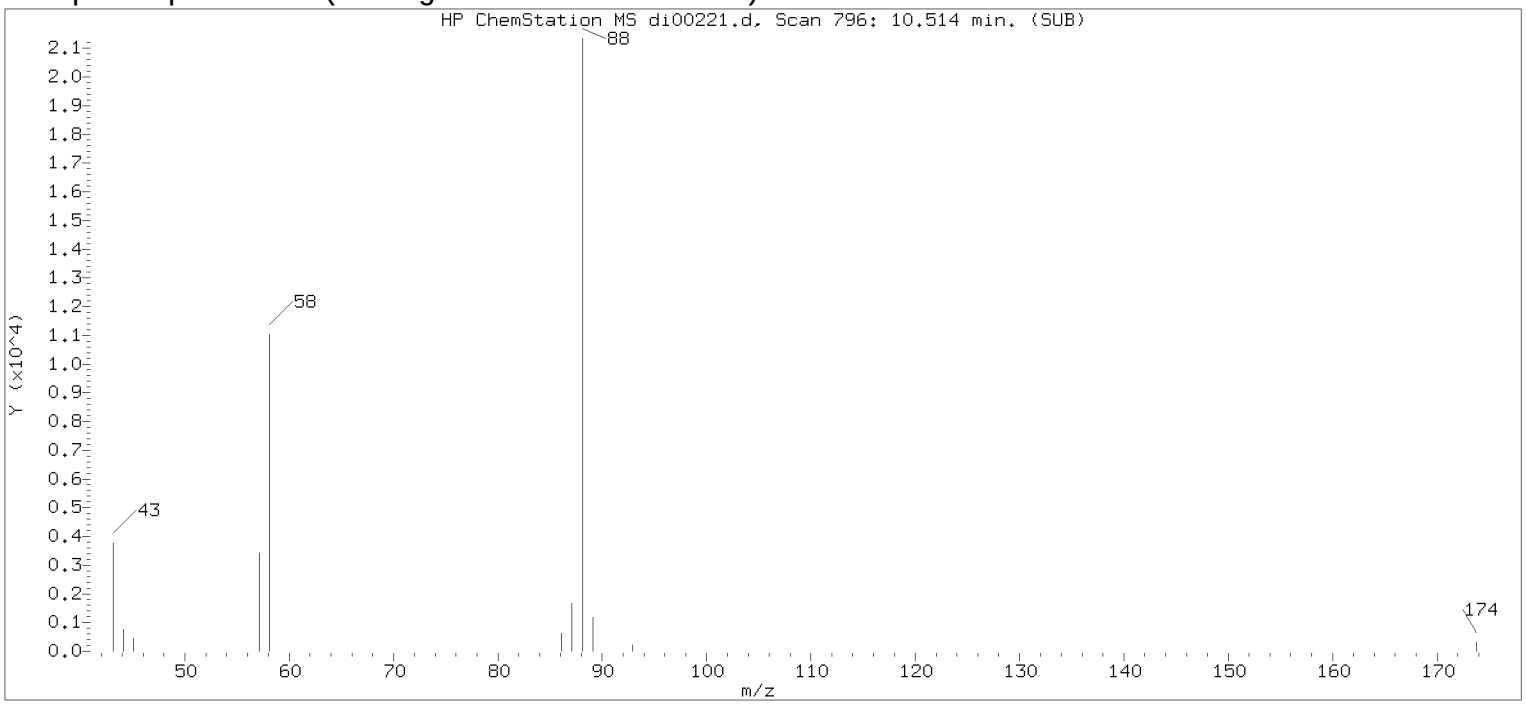
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 796
Retention Time (minutes): 10.514
Quant Ion : 88.00
Area (flag) : 320338M
Concentration (ppb(v)) : 8.9472
Integration start scan : 787 Integration stop scan: 873
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

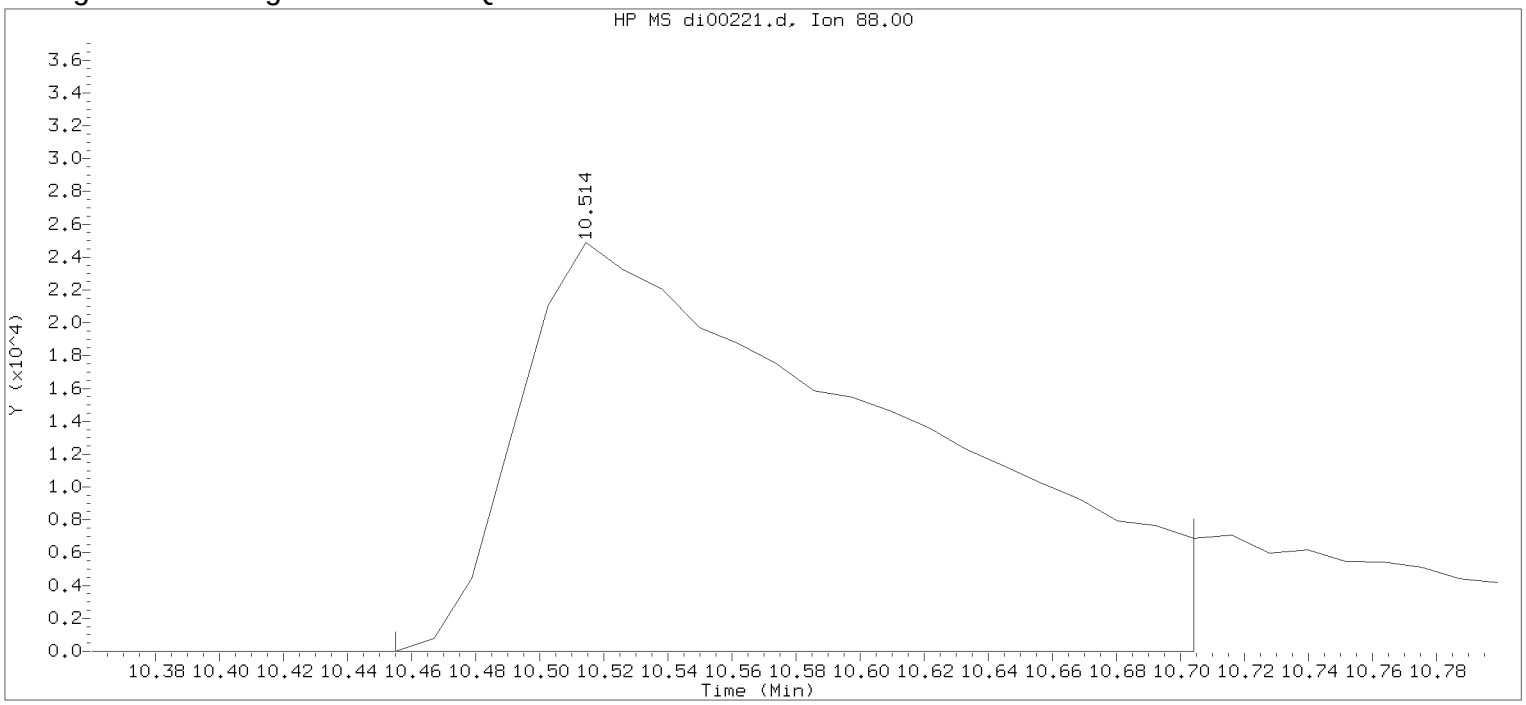
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/15/2015 at 16:17.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

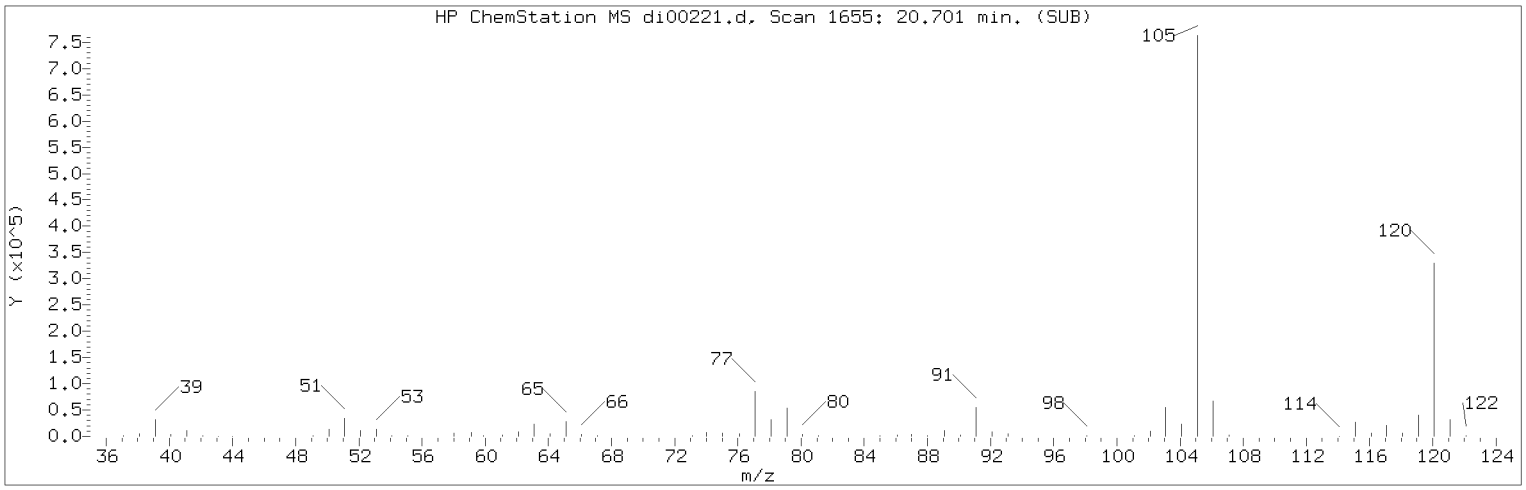
Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:25
Date, time and analyst ID of latest file update: 14-Sep-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

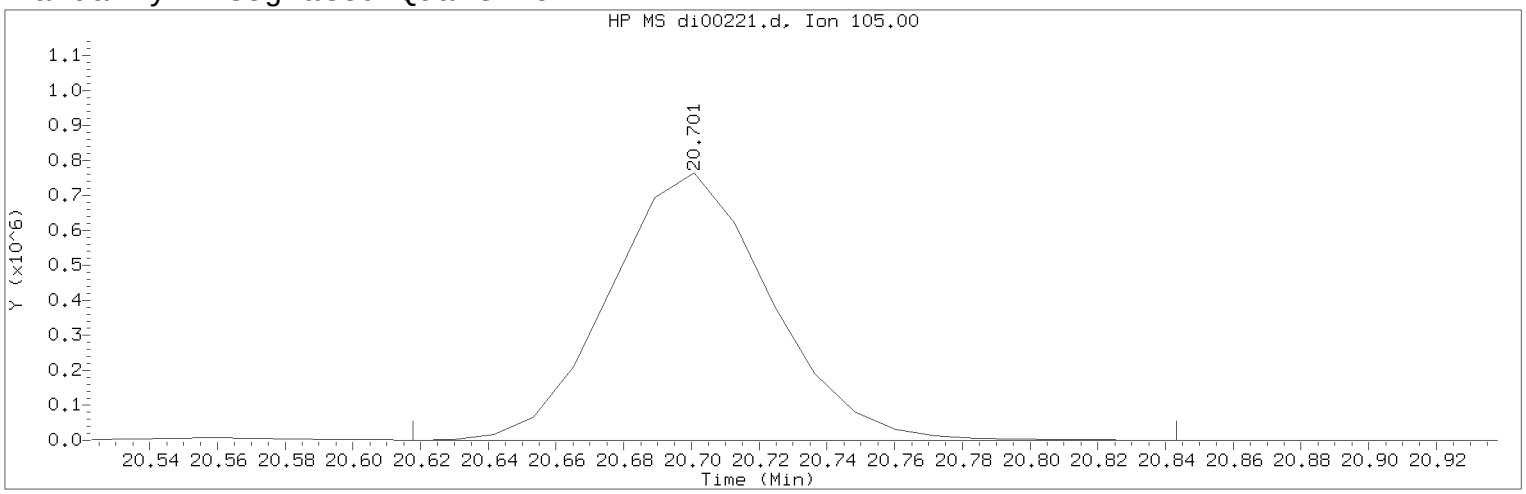
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 796
Retention Time (minutes): 10.514
Quant Ion : 88.00
Area : 204236
Concentration (ppb(v)) : 5.7044
Integration start scan : 790 Integration stop scan: 811
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:42.
Target 3.5 esignature used 23 Feb 07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 14-Sep-2015 19:41 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

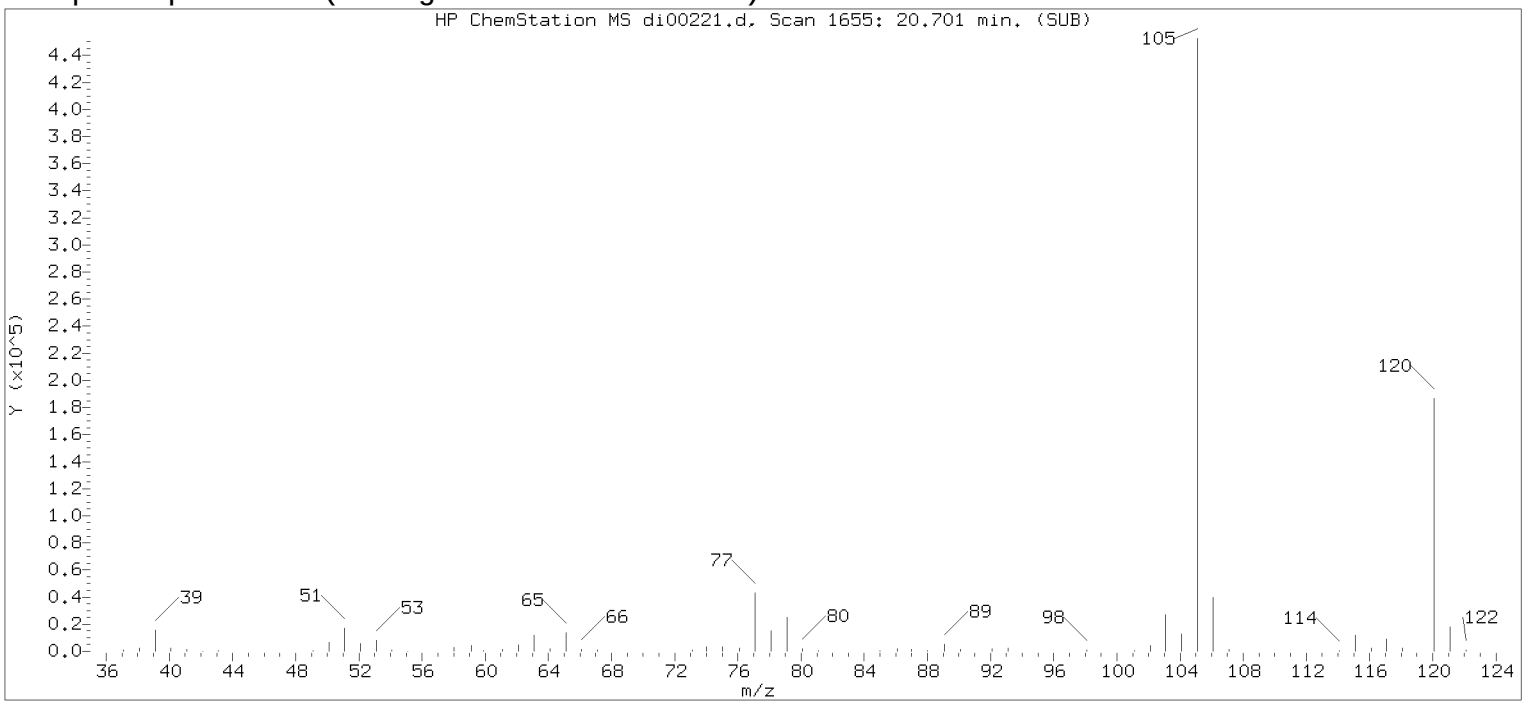
Compound Number : 90
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 1655
Retention Time (minutes): 20.701
Quant Ion : 105.00
Area (flag) : 2511831M
Concentration (ppb(v)) : 9.4634
Integration start scan : 1647 Integration stop scan: 1666
Y at integration start : 466 Y at integration end: 466

Reason for manual integration: improper integration

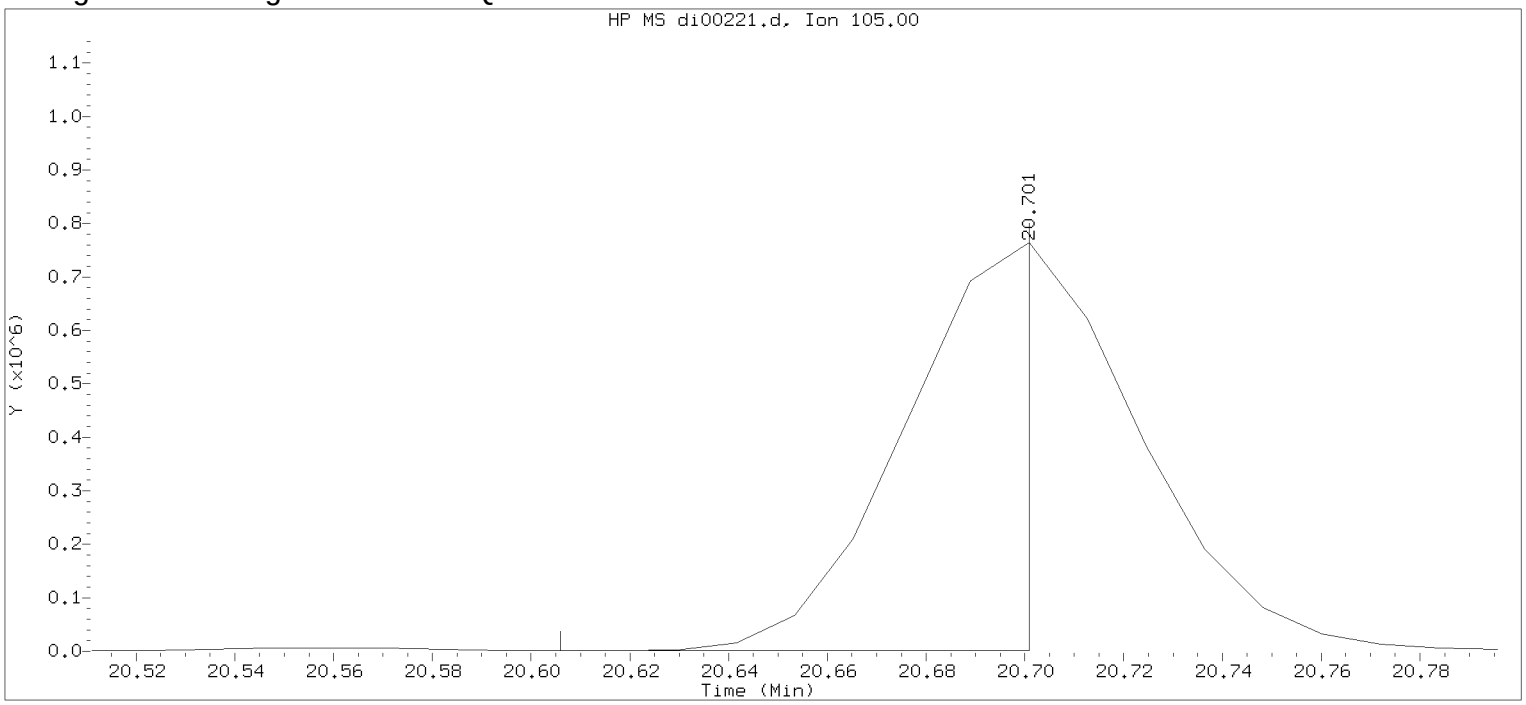
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 09/14/2015 at 19:42.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/15/2015 at 16:17.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15sep14.b/di00221.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 12:42 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 10:25
Date, time and analyst ID of latest file update: 14-Sep-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 90
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 1655
Retention Time (minutes): 20.701
Quant Ion : 105.00
Area : 1292972
Concentration (ppb(v)) : 4.8713
Integration start scan : 1646 Integration stop scan: 1654
Y at integration start : 791 Y at integration end: 791

Digitally signed by Jacob E. Bailey on 09/14/2015 at 19:42.
Target 3.5 esignature use SSXD3 Page 1241 of 1243

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

VBLKD63

Data file: /chem/HP10145.i/15sep14.b/di00223.d Injection date and time: **14-SEP-2015 13:39**
Data file Sample Info. Line: VBLKD63;;D1525430AB;VBLKD63;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 19:41
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.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	677307 (23)	10.00		331470 - 773428
51) 1,4-Difluorobenzene	9.210(-0.012)	686	114	2709545 (22)	10.00		1335741 - 3116729
71) Chlorobenzene-d5	15.436(0.000)	1211	117	2189865 (15)	10.00		1144193 - 2669781

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					0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.5	2
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					0.2	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					0.5	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	1
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	1
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					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)			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 09/17/2015 at 12:18. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep14.b/di00223.d Injection date and time: **14-SEP-2015 13:39**
Data file Sample Info. Line: VBLKD63;;D1525430AB;VBLKD63;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 19:41
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.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					0.2	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					0.5	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					0.2	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	1
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					0.2	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 Jeffrey B. Smith on 09/17/2015 at 12:18. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep14.b/di00223.d Injection date and time: **14-SEP-2015 13:39**
Data file Sample Info. Line: VBLKD63;;D1525430AB;VBLKD63;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 14-SEP-2015 19:41
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.d**

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

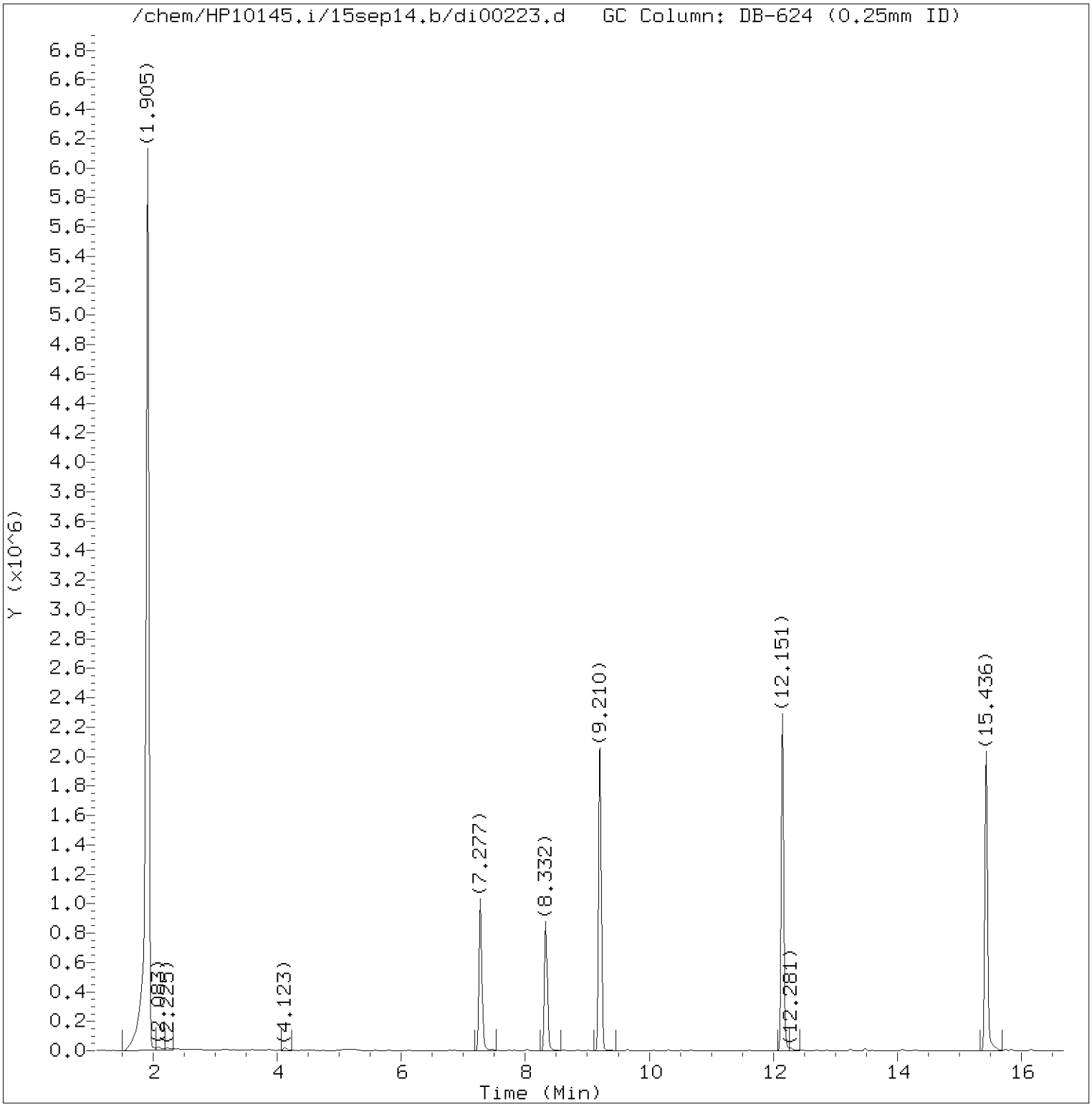
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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					0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/17/2015 at 12:18. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 09/19/2015 at 15:18. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

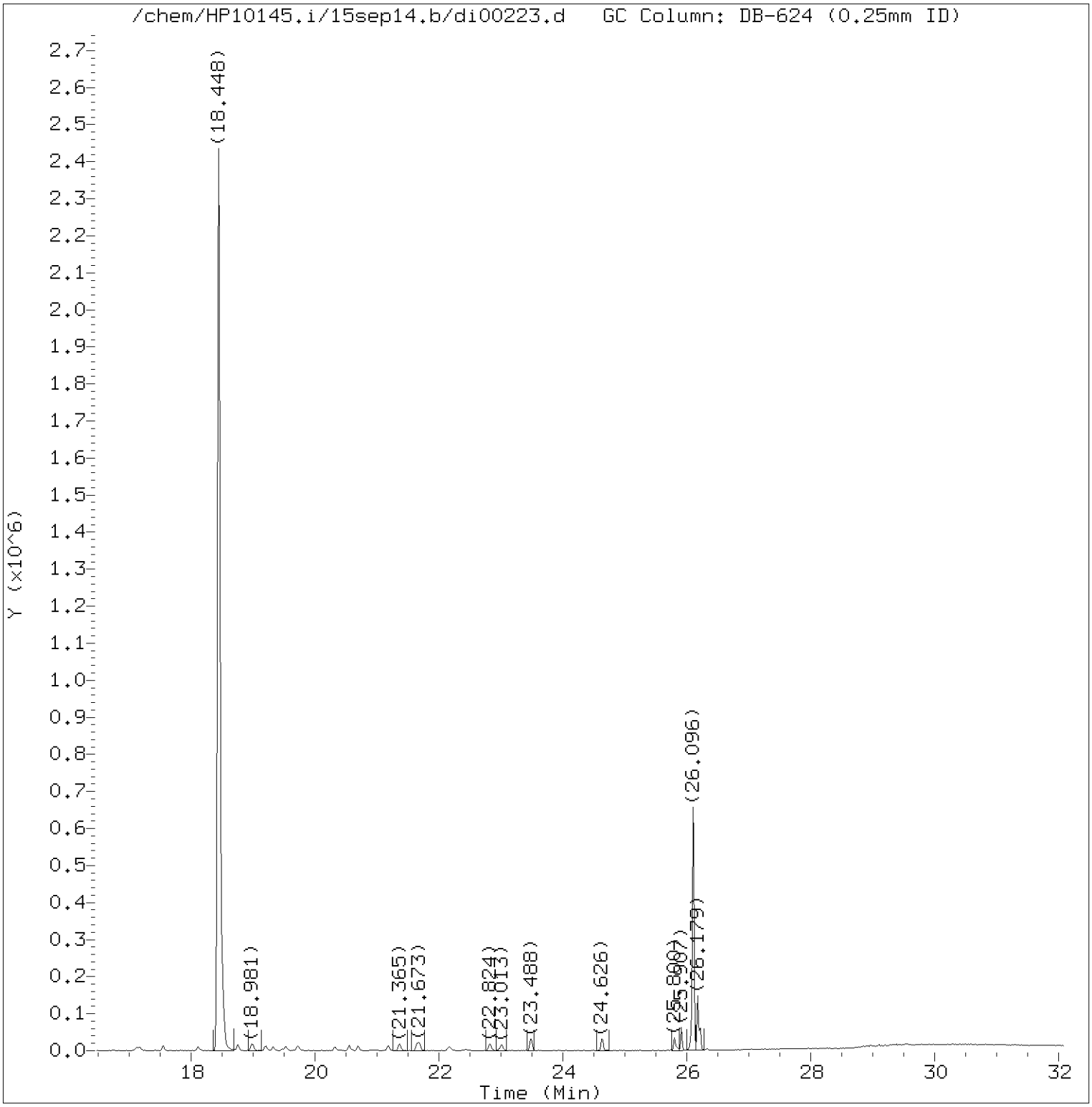
Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00223.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 13:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Sample Name: VBLKD63 Lab Sample ID: VBLKD63

Digitally signed by Jeffrey B. Smith
on 09/17/2015 at 12:18.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00223.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 13:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Sample Name: VBLKD63 Lab Sample ID: VBLKD63

Digitally signed by Jeffrey B. Smith
on 09/17/2015 at 12:18.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00223.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 13:39 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 14-SEP-2015 19:41
Date, time and analyst ID of latest file update: 17-Sep-2015 12:14 jbs01304

Sample Name: VBLKD63 Lab Sample ID: VBLKD63

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.277	130	677307	10.000
51)*1,4-Difluorobenzene	(2)	9.210	114	2709545	10.000
71)*Chlorobenzene-d5	(3)	15.436	117	2189865	10.000

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 09/17/2015 at 12:18.
Target 3.5 esignature user ID: jbs01304

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

Data file: /chem/HP10145.i/15sep14.b/di00224.d Injection date and time: **14-SEP-2015 14:52**
Data file Sample Info. Line: cc1014;;D1525430AB;cc1014;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 15-SEP-2015 10:54
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.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	542700 (-2)	10.00		331470 - 773428
51) 1,4-Difluorobenzene	9.210(-0.012)	686	114	2134655 (-4)	10.00		1335741 - 3116729
71) Chlorobenzene-d5	15.435(0.000)	1211	117	1751218 (-8)	10.00		1144193 - 2669781

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					0.5	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.5	2
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					0.2	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					0.5	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	1
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	1
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					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)			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 09/15/2015 at 12:12. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep14.b/di00224.d Injection date and time: **14-SEP-2015 14:52**
Data file Sample Info. Line: cc1014;;D1525430AB;cc1014;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 15-SEP-2015 10:54
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.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					0.2	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					0.5	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					0.2	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	1
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					0.2	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 Jeffrey B. Smith on 09/15/2015 at 12:12. Target 3.5 esignature user ID: jbs01304

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP10145.i/15sep14.b/di00224.d Injection date and time: **14-SEP-2015 14:52**
Data file Sample Info. Line: cc1014;;D1525430AB;cc1014;0;3;BLANK; Instrument ID: **HP10145.i** Batch: **D1525430AB**
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Blank Data file reference: **/chem/HP10145.i/15sep14.b/di00223.d**

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 15-SEP-2015 10:54
Mid Level Daily Calibration Standard Reference: **/chem/HP10145.i/15sep14.b/di00221.d**

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

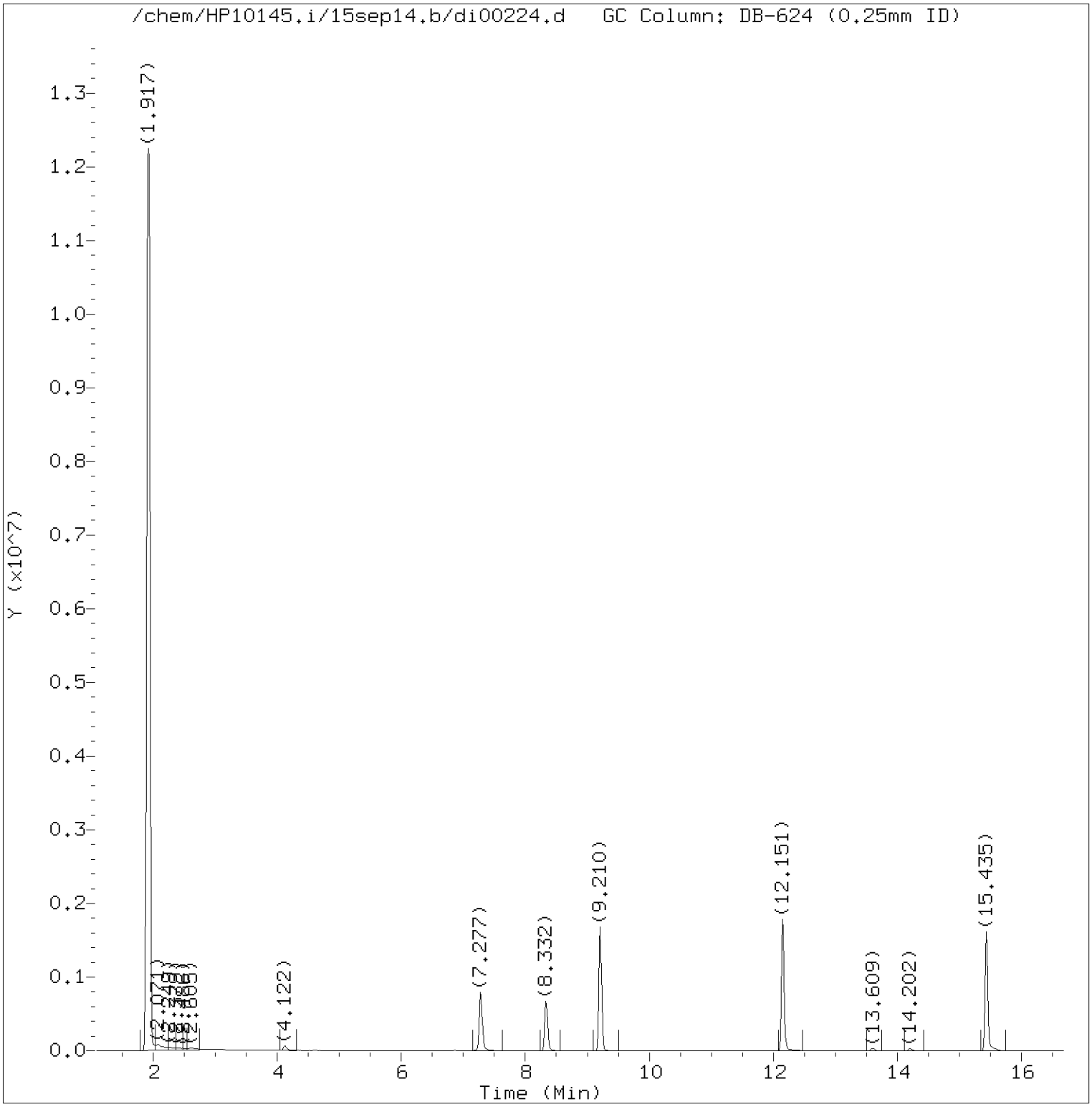
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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					0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/15/2015 at 12:12. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 16:30. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

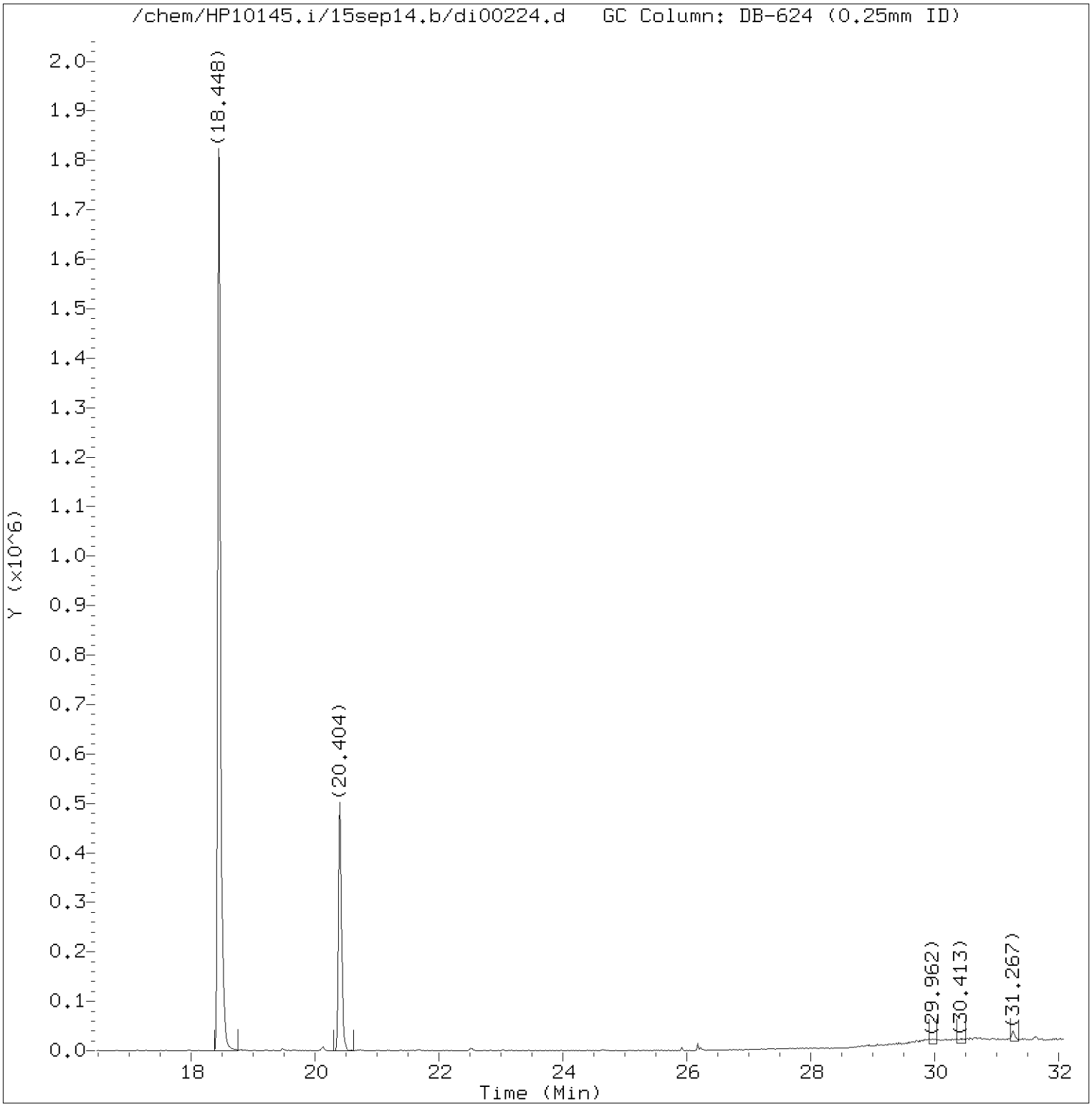
Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00224.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 14:52 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 15-SEP-2015 10:54
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Sample Name: cc1014 Lab Sample ID: cc1014

Digitally signed by Jeffrey B. Smith
on 09/15/2015 at 12:12.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00224.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 14:52 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 15-SEP-2015 10:54
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Sample Name: cc1014 Lab Sample ID: cc1014

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on 09/15/2015 at 12:12.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15sep14.b/di00224.d Instrument ID: HP10145.i
Injection date and time: 14-SEP-2015 14:52 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15sep14.b/to-15.m Sublist used: all
Calibration date and time: 15-SEP-2015 10:54
Date, time and analyst ID of latest file update: 15-Sep-2015 12:12 jbs01304

Sample Name: cc1014 Lab Sample ID: cc1014

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	7.277	130	542700	10.000
51)*1,4-Difluorobenzene	(2)	9.210	114	2134655	10.000
71)*Chlorobenzene-d5	(3)	15.435	117	1751218	10.000

* = Compound is an internal standard.

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on 09/15/2015 at 12:12.
Target 3.5 esignature user ID: jbs01304