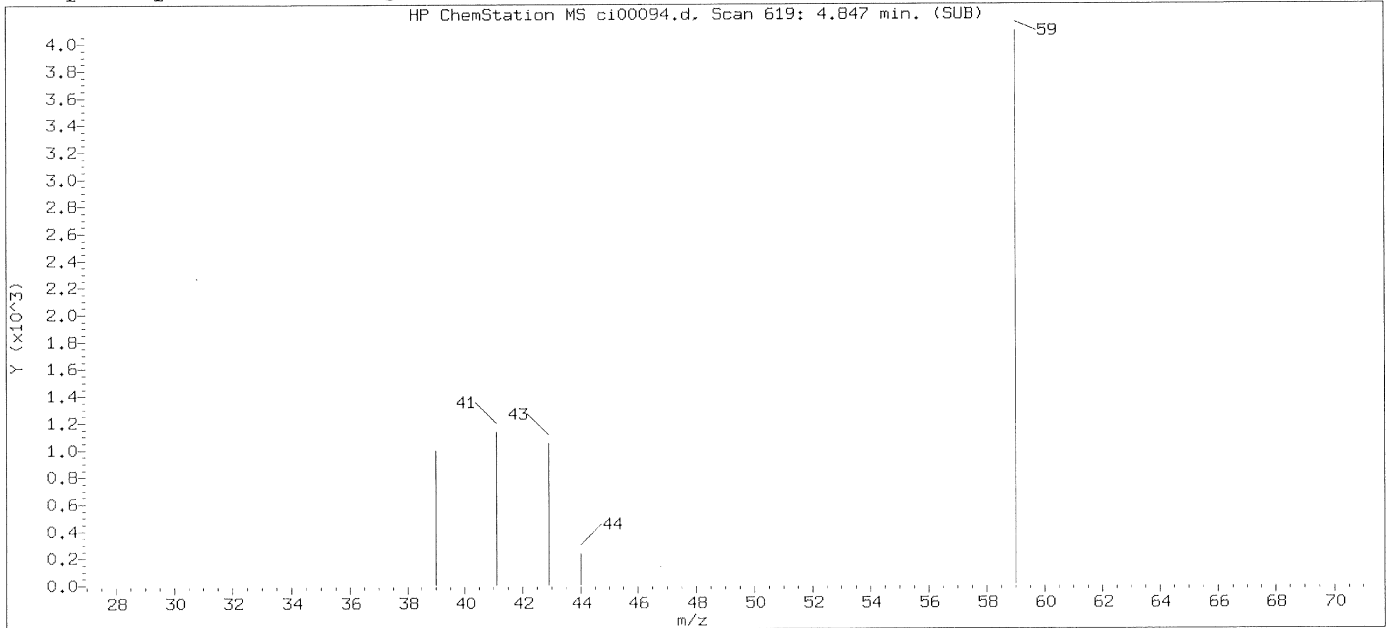
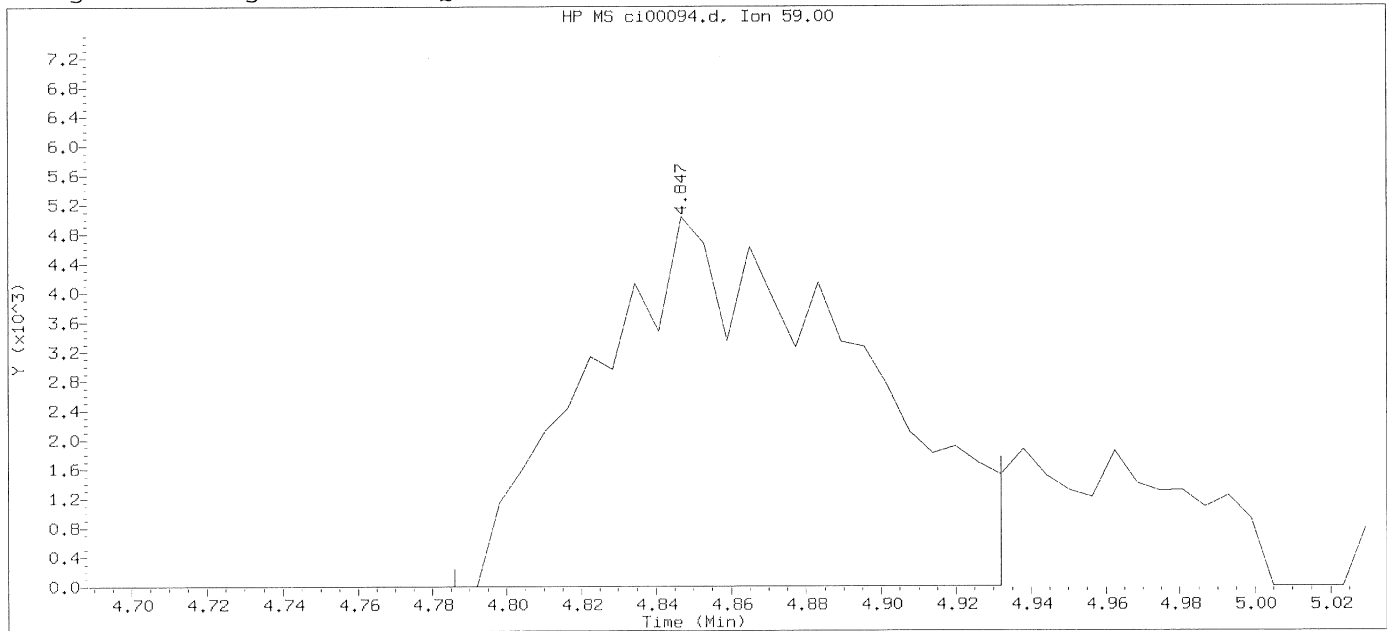


Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d

Instrument ID: HP09464.i

Injection date and time: 04-SEP-2015 05:38

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m

Sublist used: all

Calibration date and time: 03-SEP-2015 20:54

Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

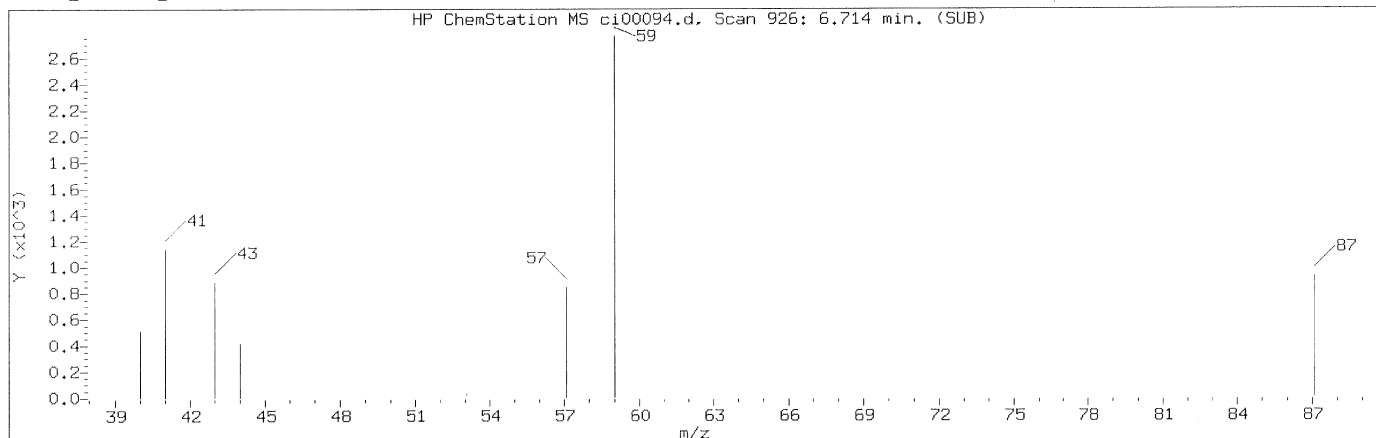
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

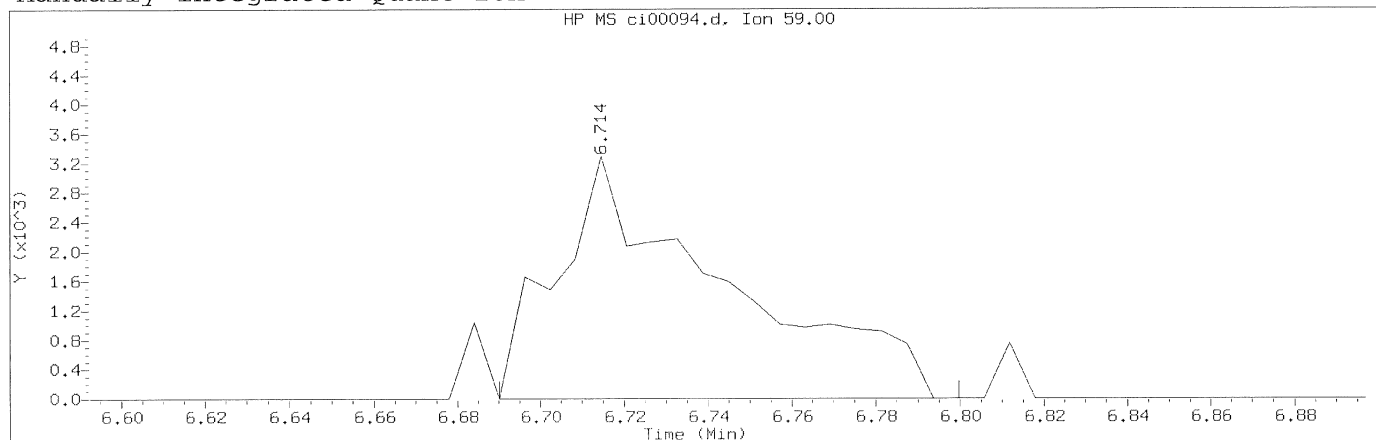
Compound Number : 26  
Compound Name : tert-Butyl Alcohol  
Scan Number : 619  
Retention Time (minutes): 4.847  
Quant Ion : 59.00  
Area : 24675  
Concentration (ppb(v)) : 0.1704  
Integration start scan : 608 Integration stop scan: 632  
Y at integration start : 0 Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

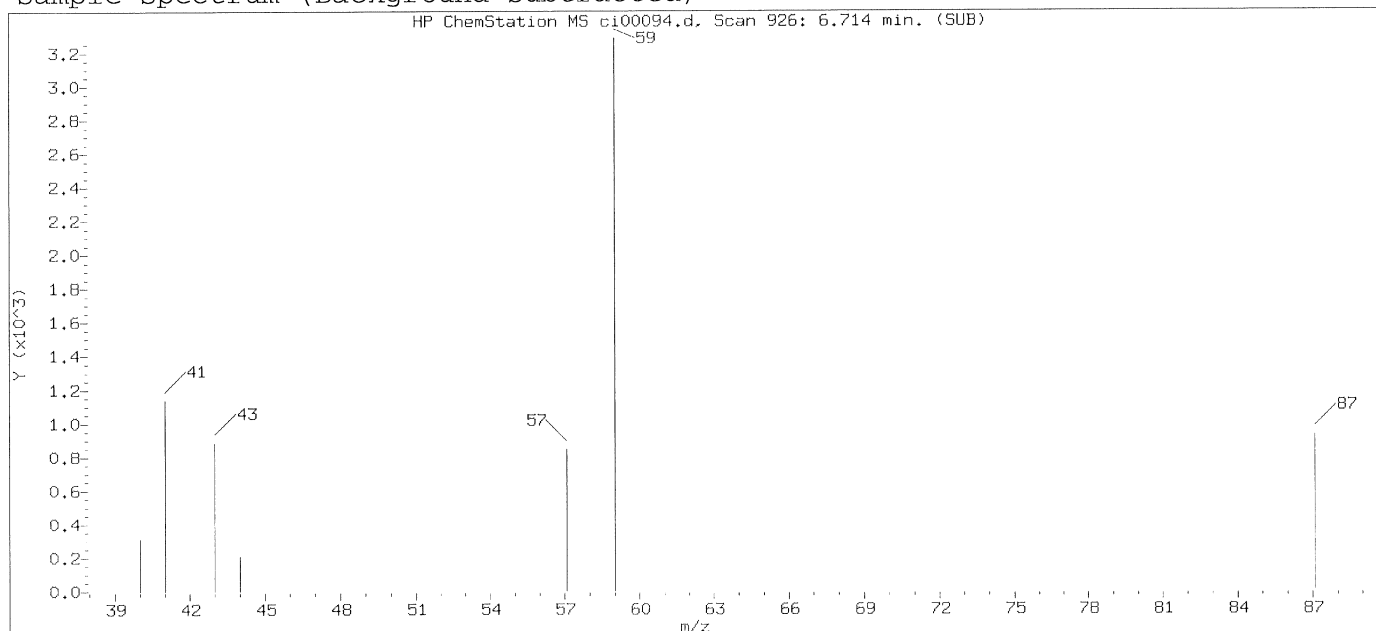
Compound Number	: 34	
Compound Name	: Ethyl Tert-Butyl Ether	
Scan Number	: 926	
Retention Time (minutes)	: 6.714	
Quant Ion	: 59.00	
Area (flag)	: 9099M	
Concentration (ppb(v))	: 0.0793	
Integration start scan	: 921	Integration stop scan: 939
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: improper integration

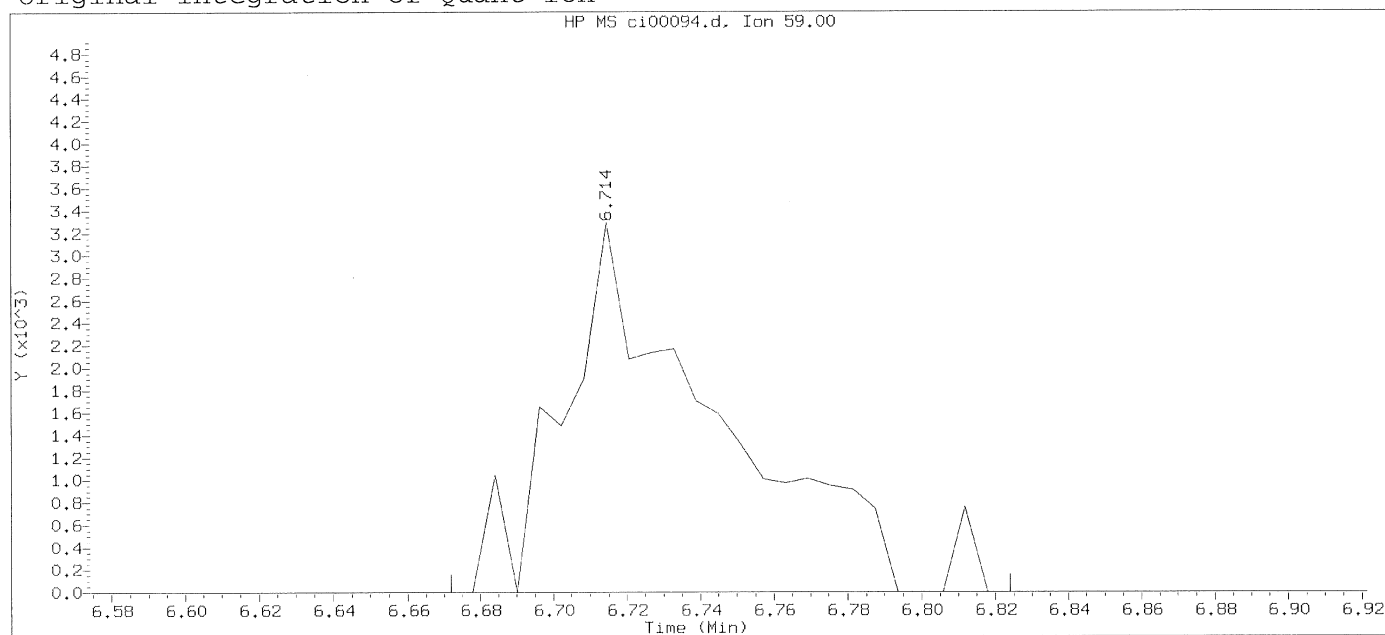
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

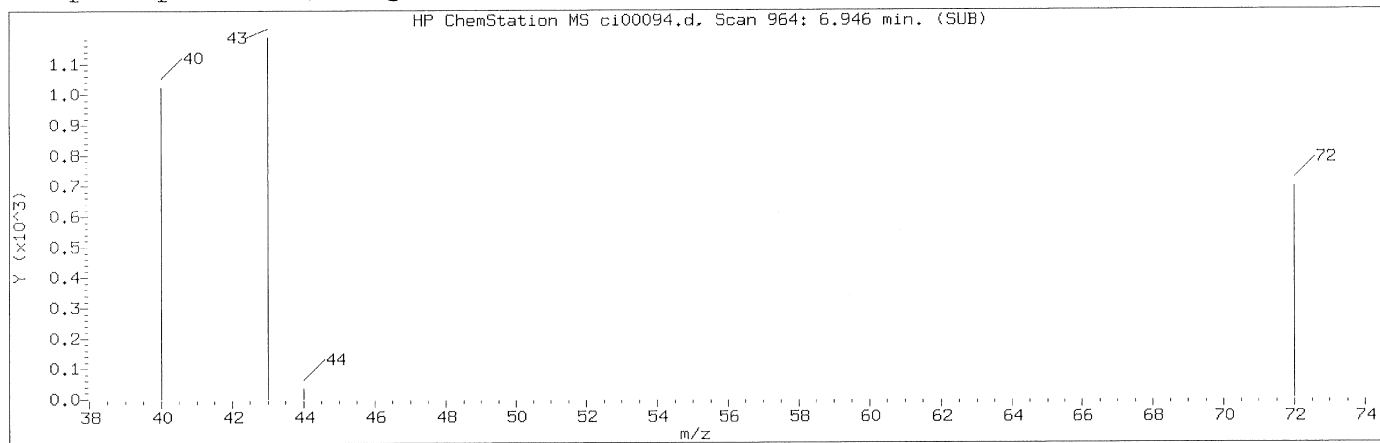
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

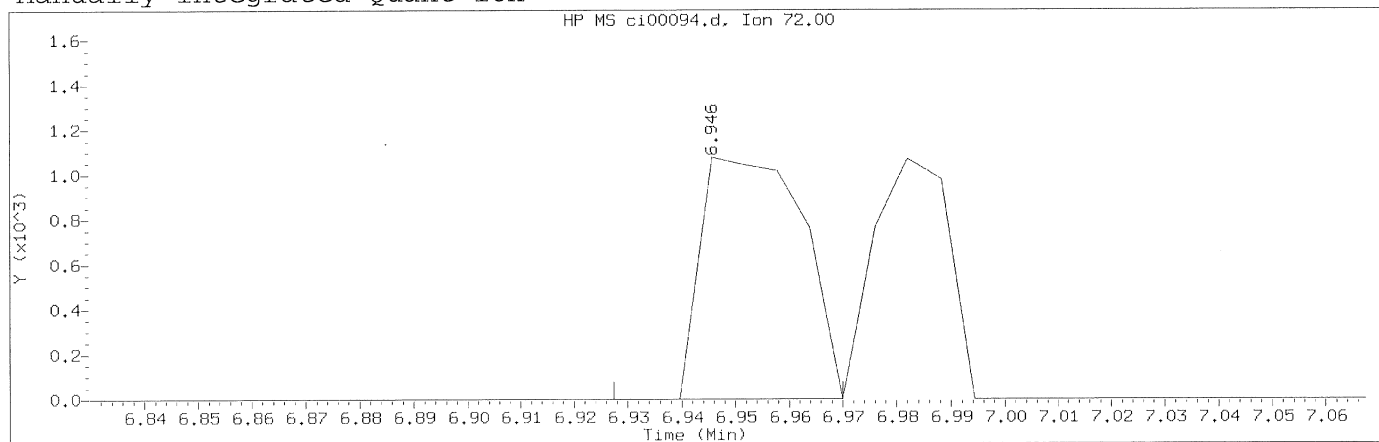
Compound Number	: 34		
Compound Name	: Ethyl Tert-Butyl Ether		
Scan Number	: 926		
Retention Time (minutes)	: 6.714		
Quant Ion	: 59.00		
Area	: 9756		
Concentration (ppb(v))	: 0.0651		
Integration start scan	: 918	Integration stop scan:	943
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

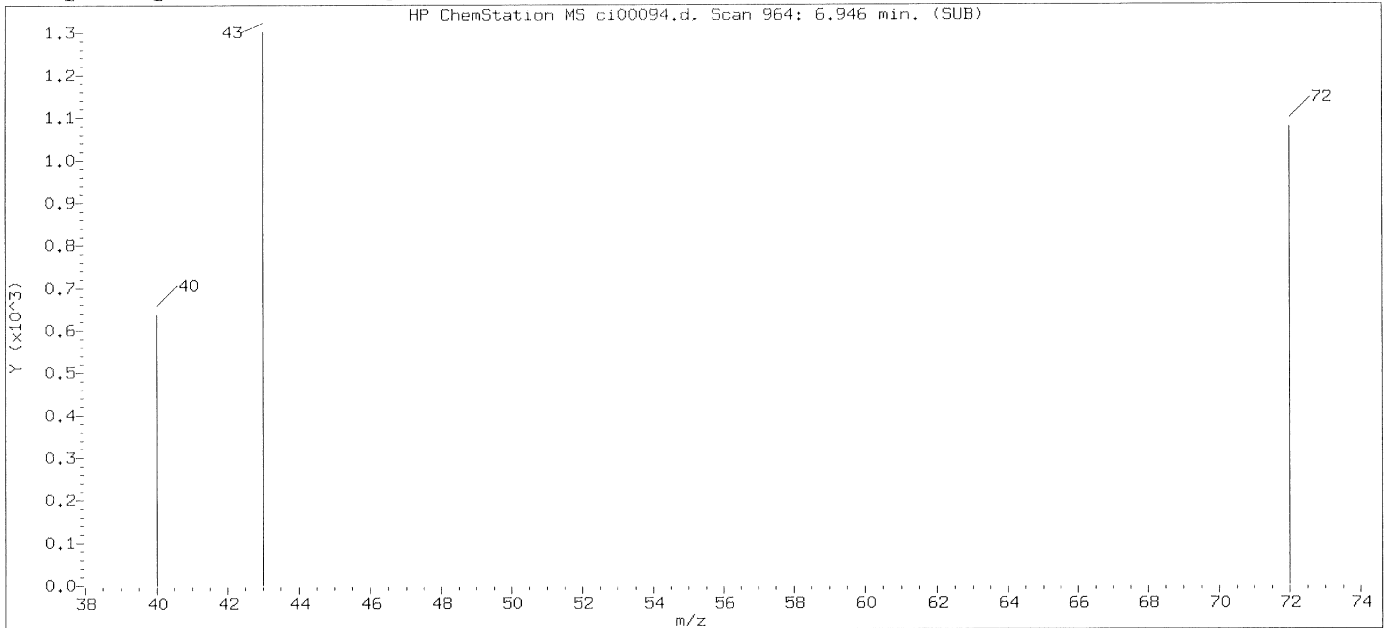
Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 964  
Retention Time (minutes): 6.946  
Quant Ion : 72.00  
Area (flag) : 1422M  
Concentration (ppb(v)) : 0.0669  
Integration start scan : 960      Integration stop scan: 967  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

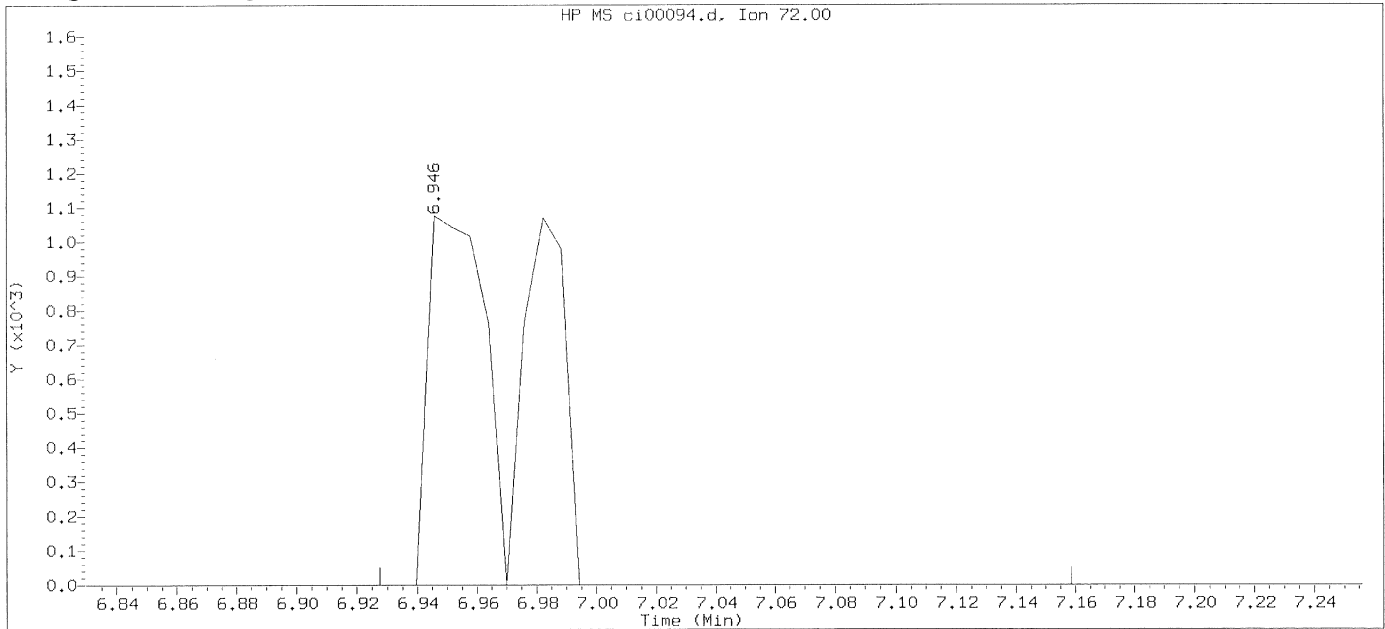
Digitally signed by Jacob E. Bailey  
Analyst responsible for change: on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d

Instrument ID: HP09464.i

Injection date and time: 04-SEP-2015 05:38

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m

Sublist used: all

Calibration date and time: 03-SEP-2015 20:54

Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

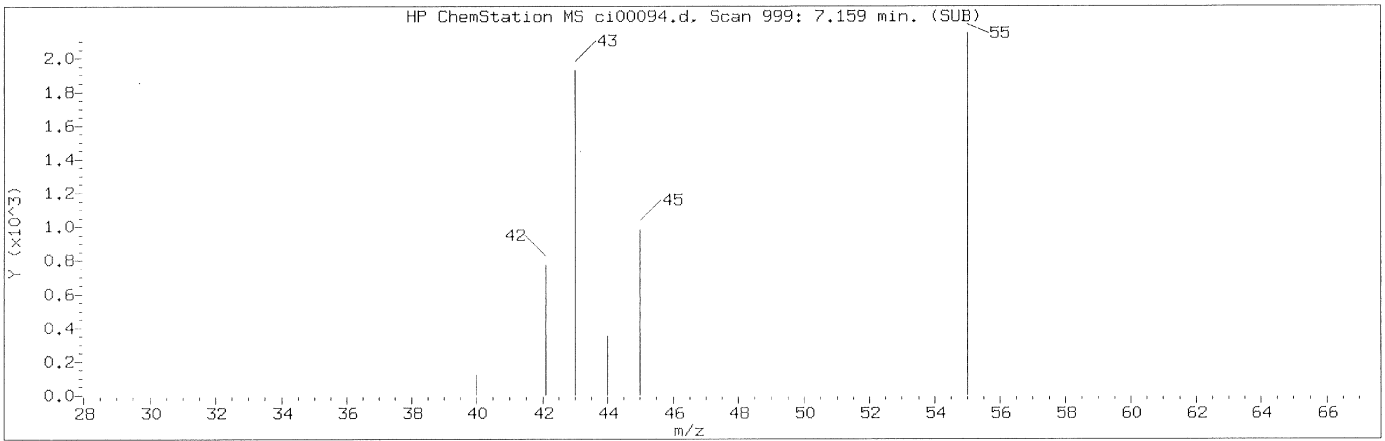
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

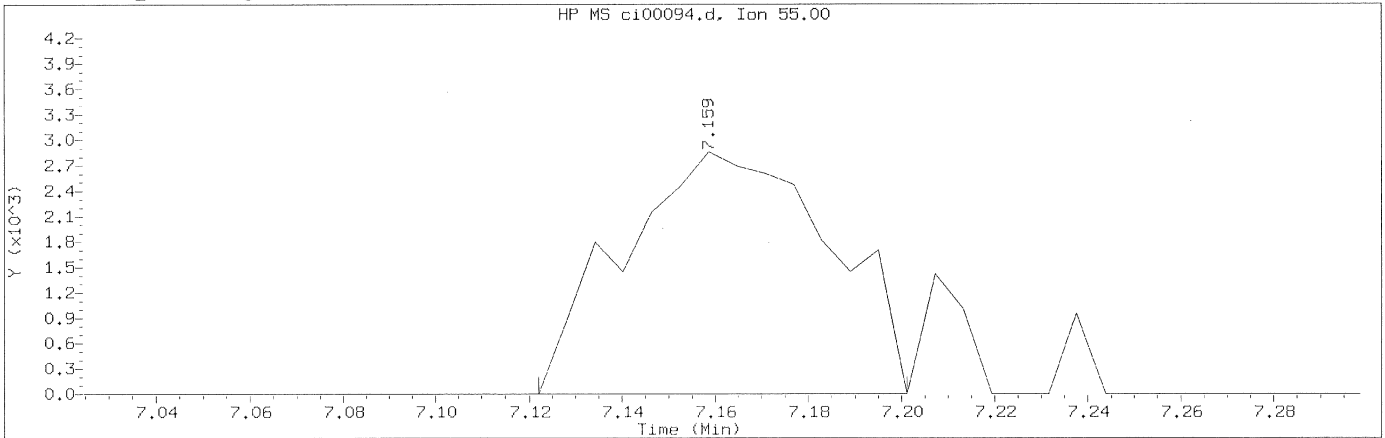
Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 964  
Retention Time (minutes): 6.946  
Quant Ion : 72.00  
Area : 2449  
Concentration (ppb(v)) : 0.1084  
Integration start scan : 960 Integration stop scan: 998  
Y at integration start : 0 Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

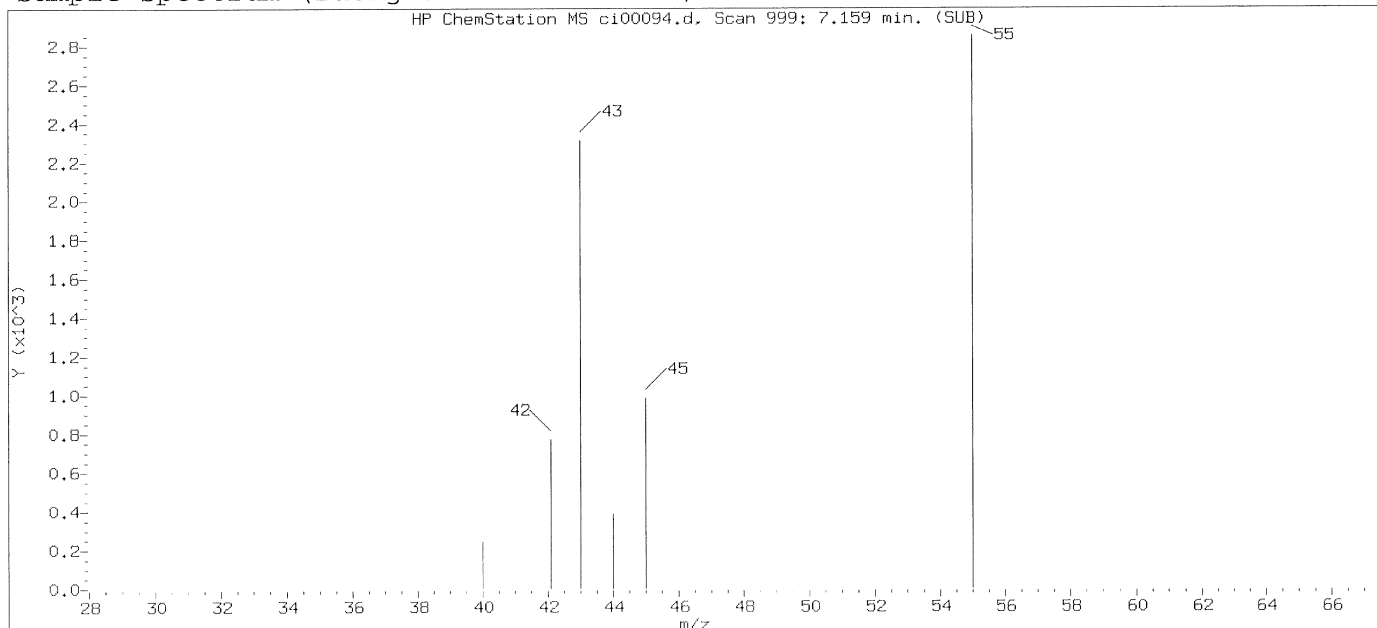
Compound Number	: 39	
Compound Name	: Methyl Acrylate	
Scan Number	: 999	
Retention Time (minutes)	: 7.159	
Quant Ion	: 55.00	
Area (flag)	: 8870M	
Concentration (ppb(v))	: 0.1061	
Integration start scan	: 992	Integration stop scan: 1005
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: improper integration

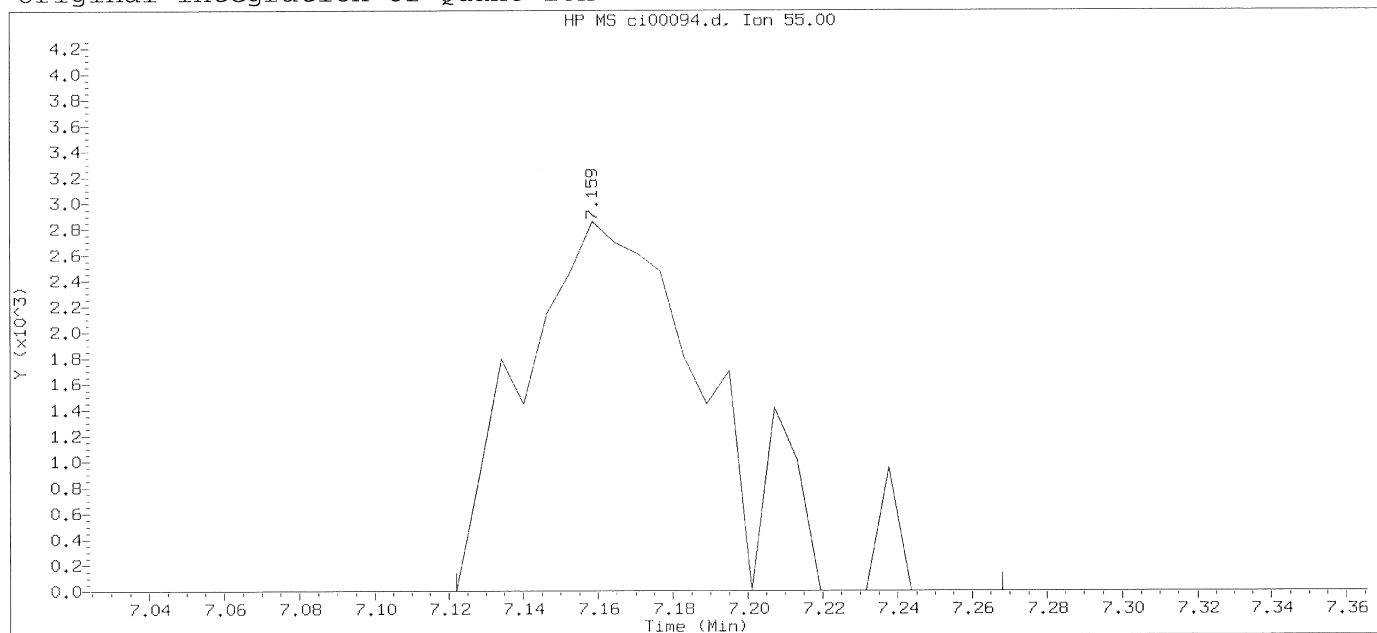
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp01758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

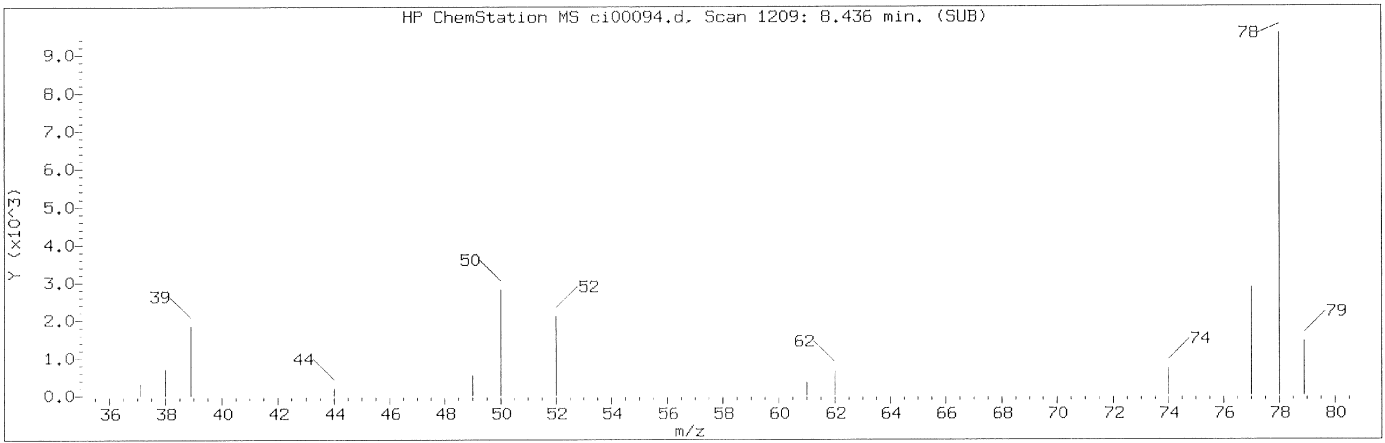
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

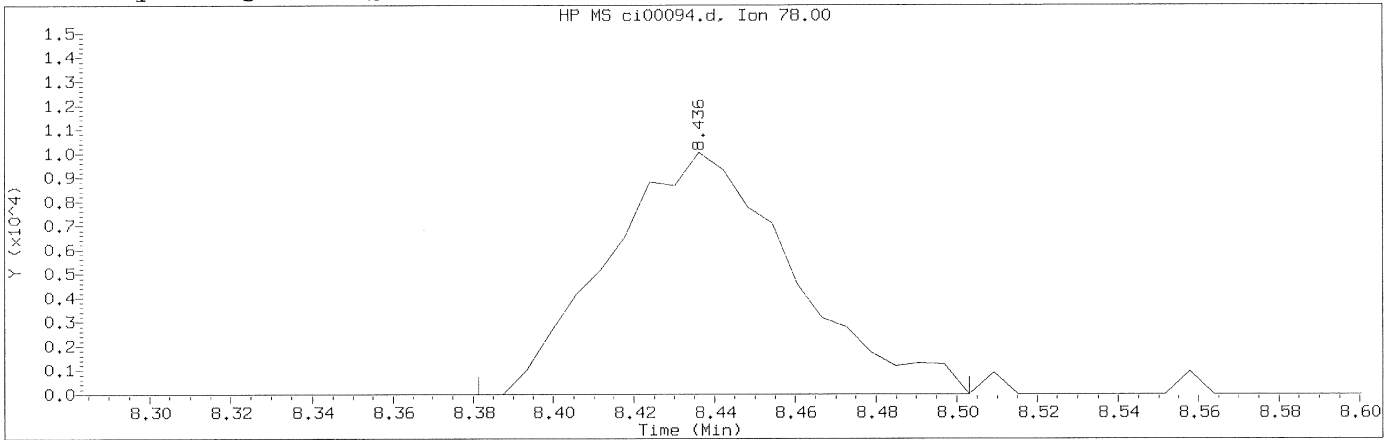
Compound Number	: 39		
Compound Name	: Methyl Acrylate		
Scan Number	: 999		
Retention Time (minutes)	: 7.159		
Quant Ion	: 55.00		
Area	: 10104		
Concentration (ppb(v))	: 0.1113		
Integration start scan	: 992	Integration stop scan:	1016
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

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

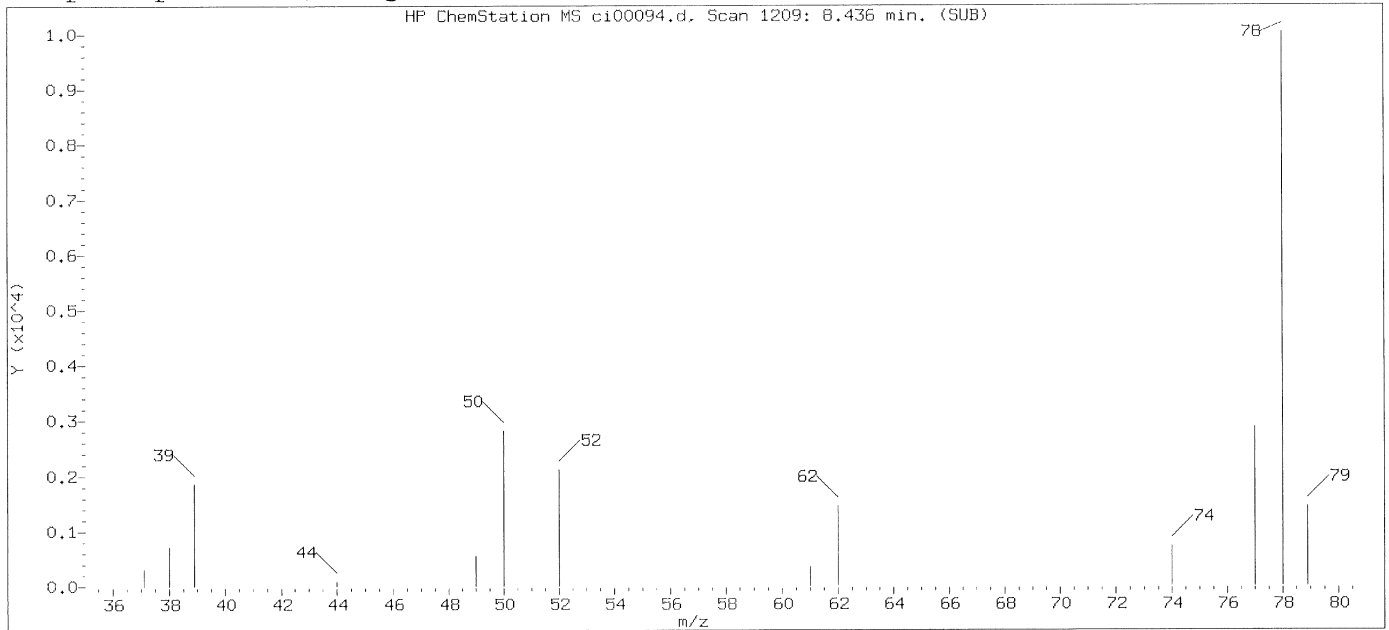
Reason for manual integration: improper integration

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

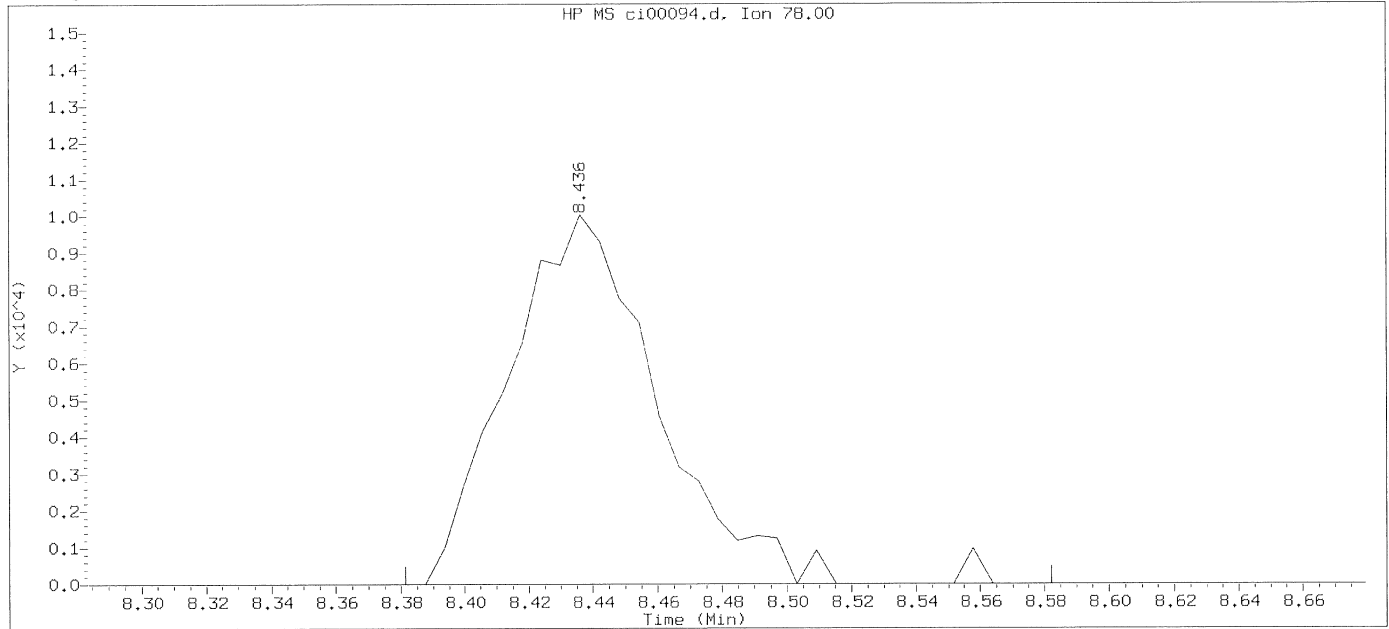
GC/MS audit/management approval: \_\_\_\_\_  
  *mgp1758 9/8/15*



Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

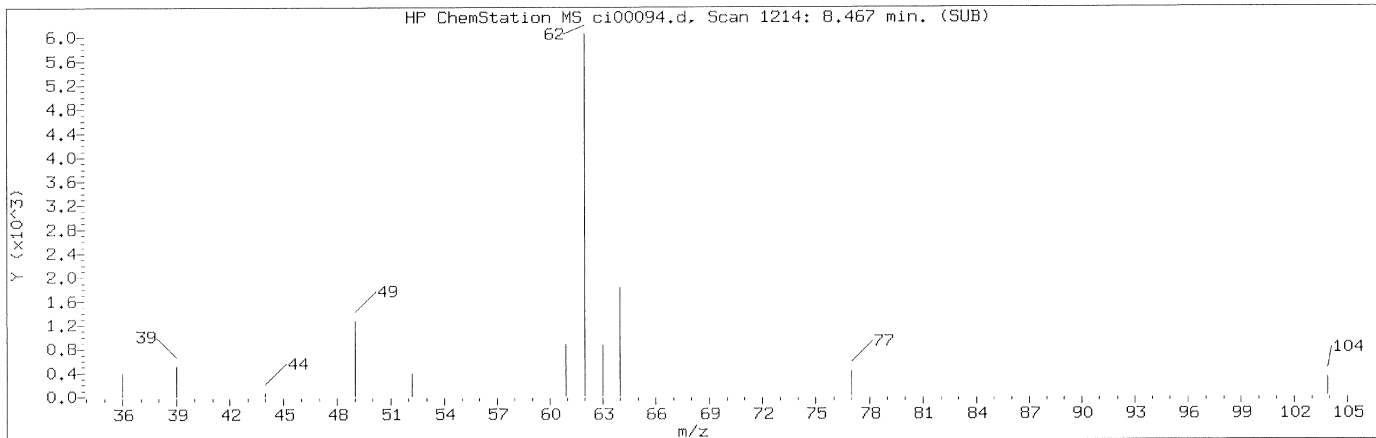
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

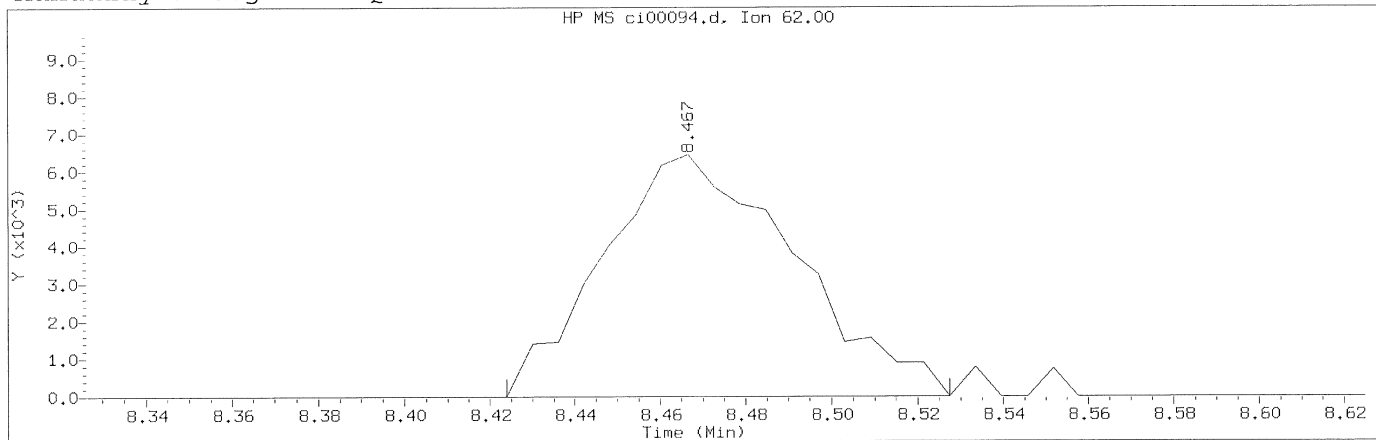
Compound Number : 46  
Compound Name : Benzene  
Scan Number : 1209  
Retention Time (minutes): 8.436  
Quant Ion : 78.00  
Area : 32533  
Concentration (ppb(v)) : 0.2537  
Integration start scan : 1199  
Integration stop scan: 1232  
Y at integration start : 0  
Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

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

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

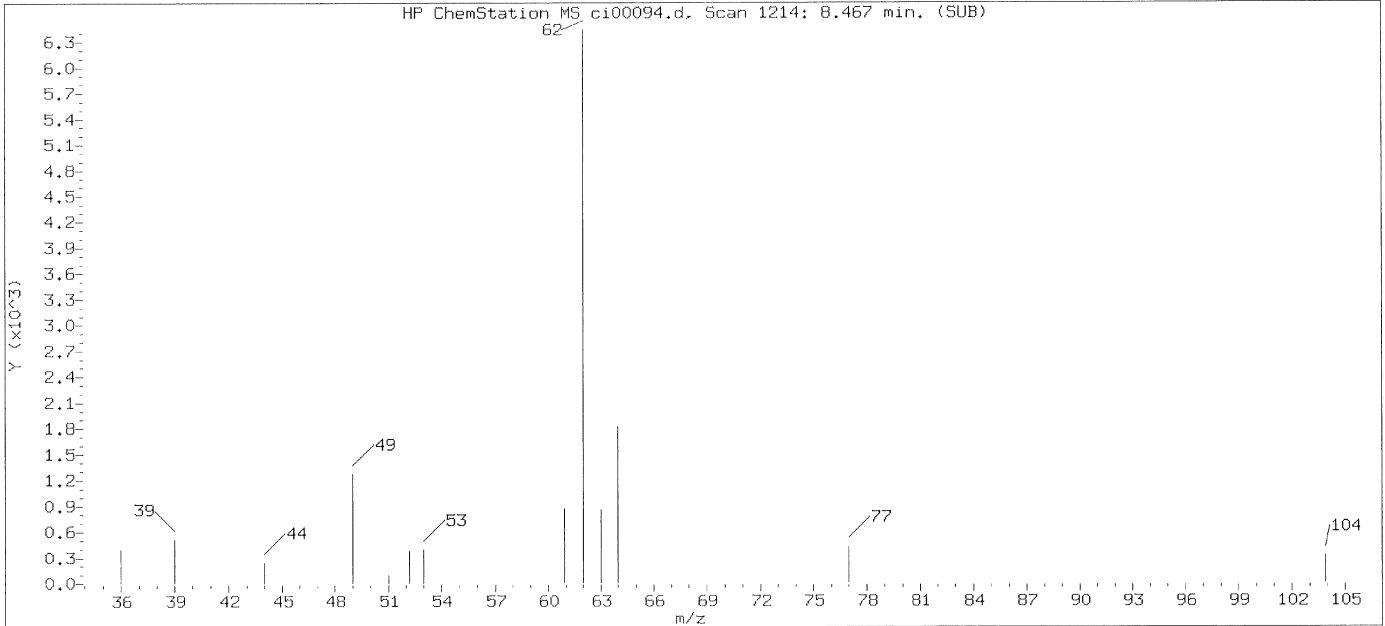
Compound Number : 47  
Compound Name : 1,2-Dichloroethane  
Scan Number : 1214  
Retention Time (minutes): 8.467  
Quant Ion : 62.00  
Area (flag) : 20065M  
Concentration (ppb(v)) : 0.2076  
Integration start scan : 1206 Integration stop scan: 1223  
Y at integration start : 0 Y at integration end: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

Reason for manual integration: improper integration

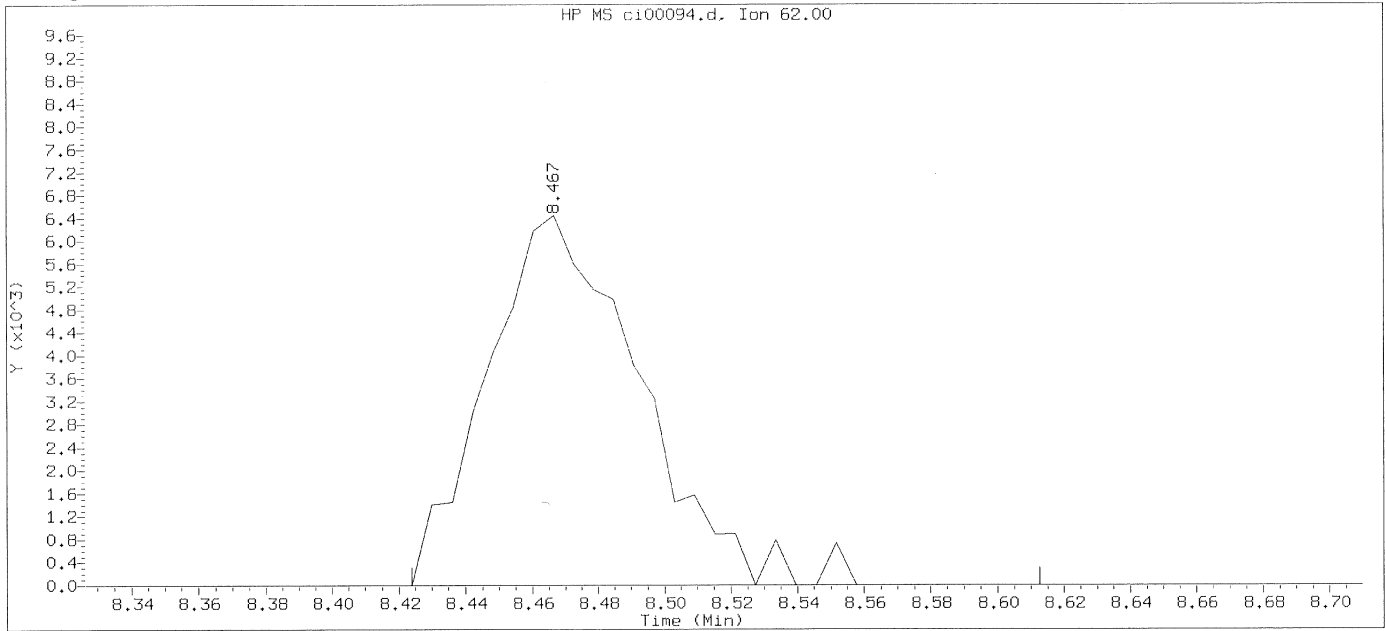
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mp01758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d

Instrument ID: HP09464.i

Injection date and time: 04-SEP-2015 05:38

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m

Sublist used: all

Calibration date and time: 03-SEP-2015 20:54

Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

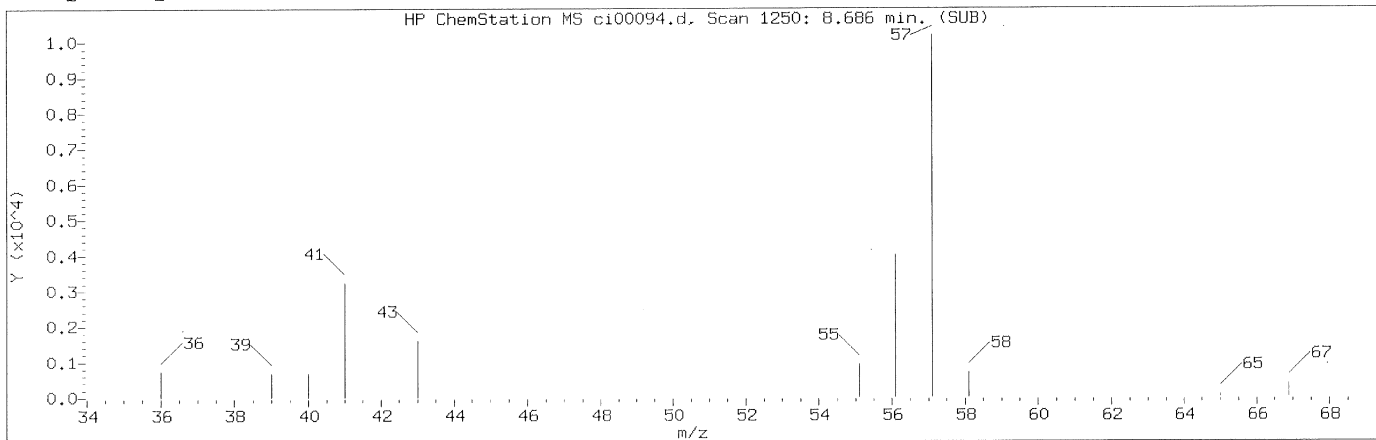
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

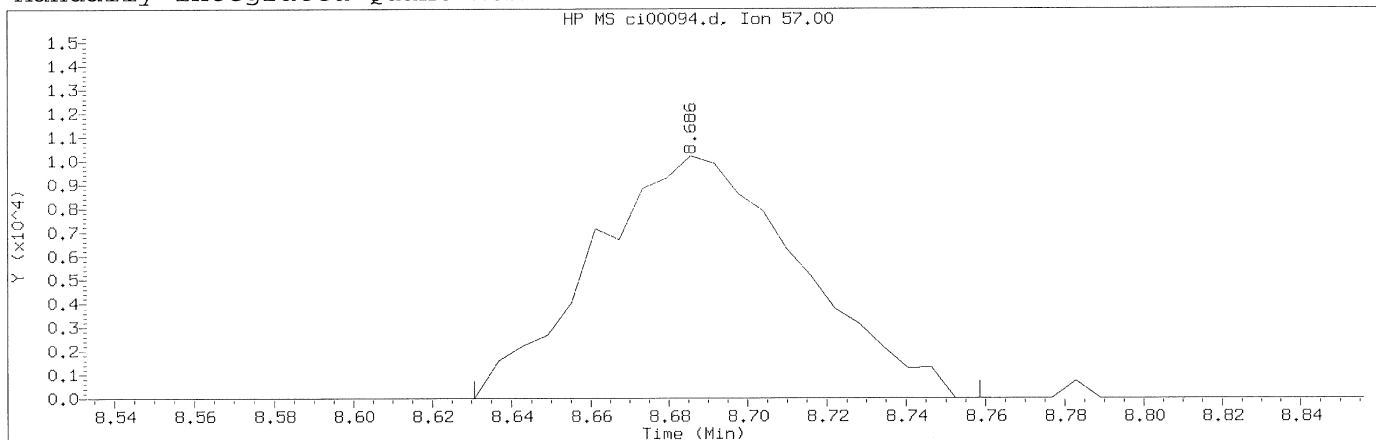
Compound Number	: 47		
Compound Name	: 1,2-Dichloroethane		
Scan Number	: 1214		
Retention Time (minutes)	: 8.467		
Quant Ion	: 62.00		
Area	: 20622		
Concentration (ppb(v))	: 0.2915		
Integration start scan	: 1206	Integration stop scan:	1237
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

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

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

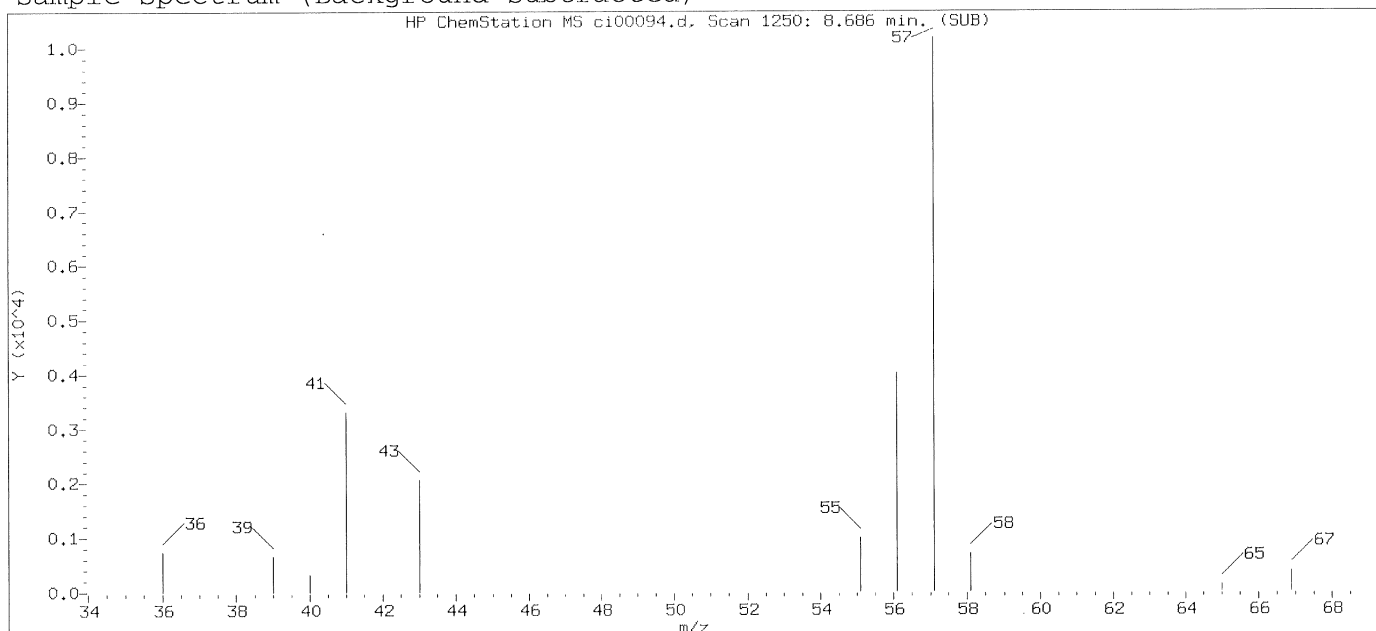
Compound Number                      : 48  
Compound Name                         : Isooctane  
Scan Number                            : 1250  
Retention Time (minutes): 8.686  
Quant Ion                                : 57.00  
Area (flag)                             : 37242M  
Concentration (ppb(v))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

Reason for manual integration: improper integration

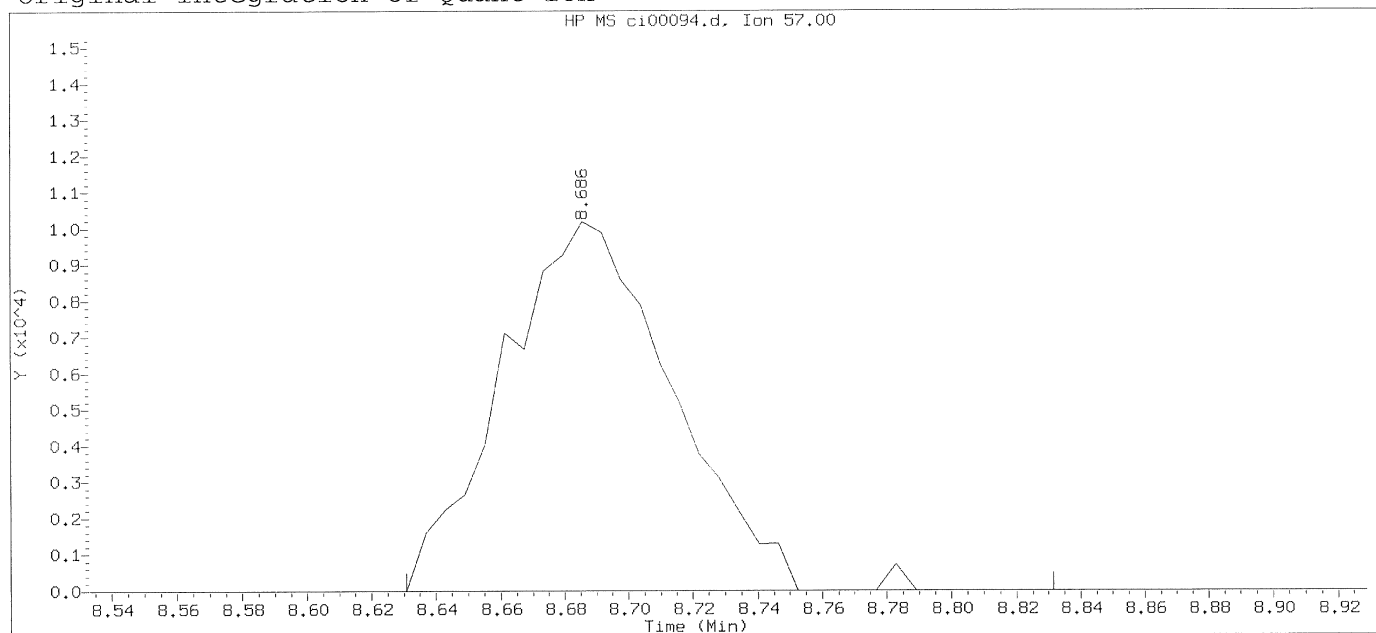
Digitally signed by Jacob E. Bailey  
Analyst responsible for change: on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

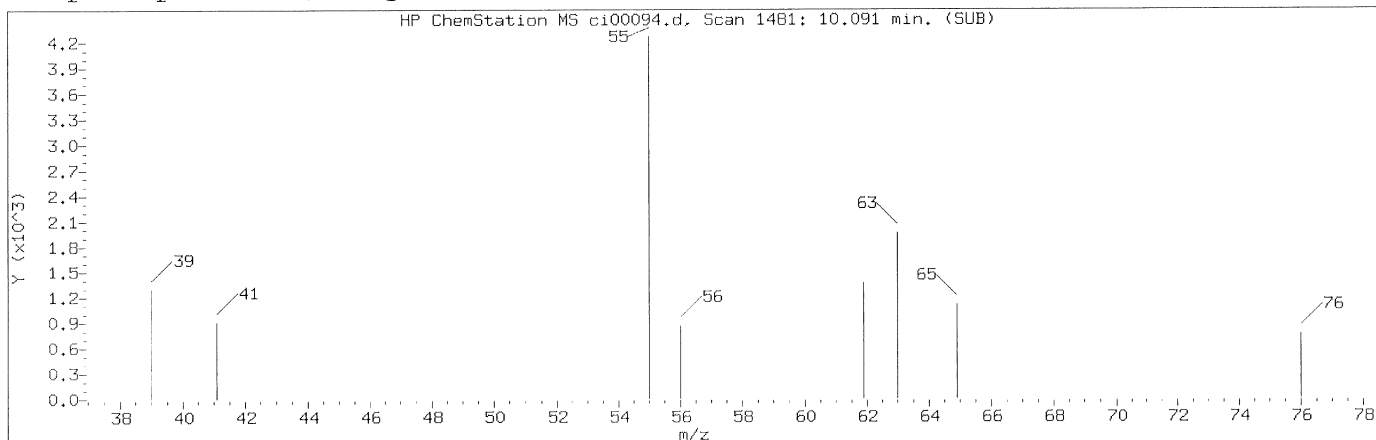
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

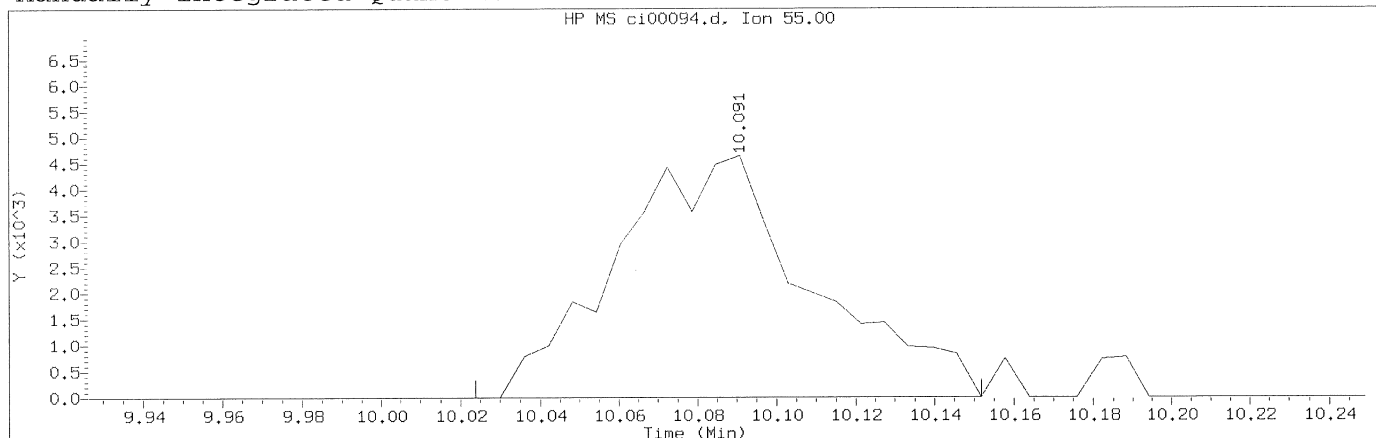
Compound Number	: 48		
Compound Name	: Isooctane		
Scan Number	: 1250		
Retention Time (minutes)	: 8.686		
Quant Ion	: 57.00		
Area	: 37507		
Concentration (ppb(v))	: 0.1550		
Integration start scan	: 1240	Integration stop scan:	1273
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

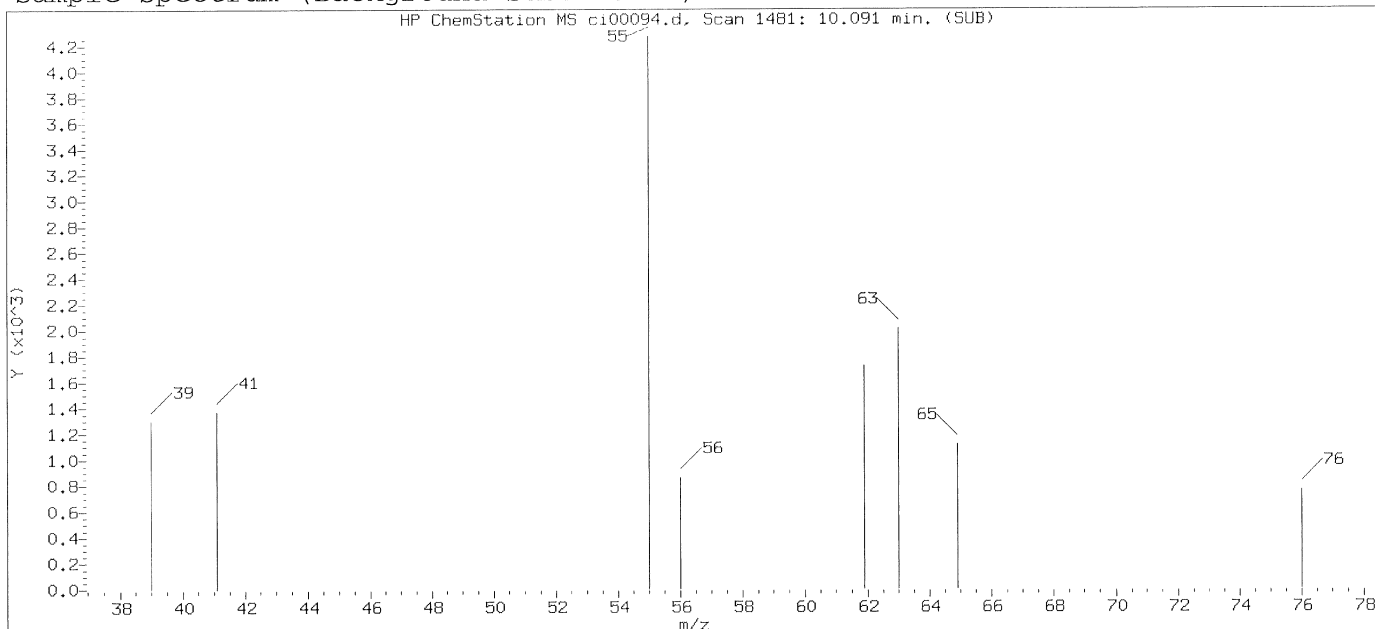
Compound Number : 53  
 Compound Name : Ethyl Acrylate  
 Scan Number : 1481  
 Retention Time (minutes): 10.091  
 Quant Ion : 55.00  
 Area (flag) : 16002M  
 Concentration (ppb(v)) : 0.1930  
 Integration start scan : 1469 Integration stop scan: 1490  
 Y at integration start : 0 Y at integration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

Reason for manual integration: improper integration

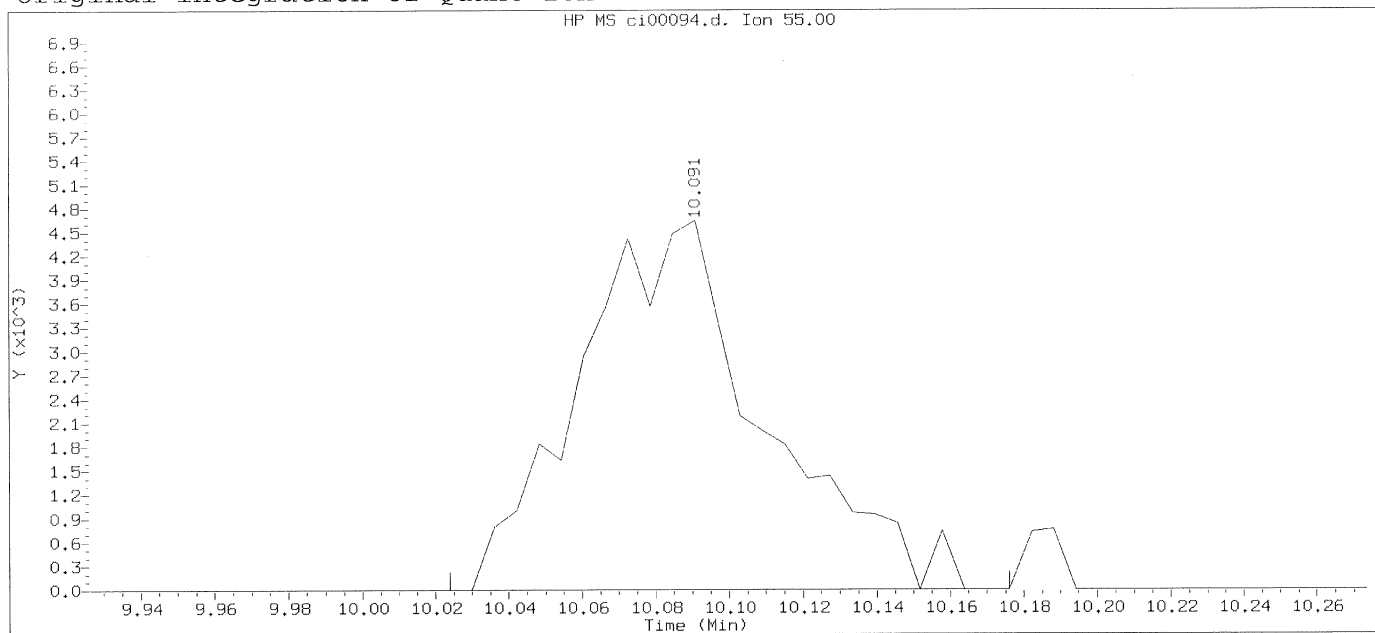
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
 on 09/08/2015 at 14:57.  
 Target 3.5 esignature user ID: jeb07445

GC/MS audit/management approval: mgj01758 9/8/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d

Instrument ID: HP09464.i

Injection date and time: 04-SEP-2015 05:38

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m

Sublist used: all

Calibration date and time: 03-SEP-2015 20:54

Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

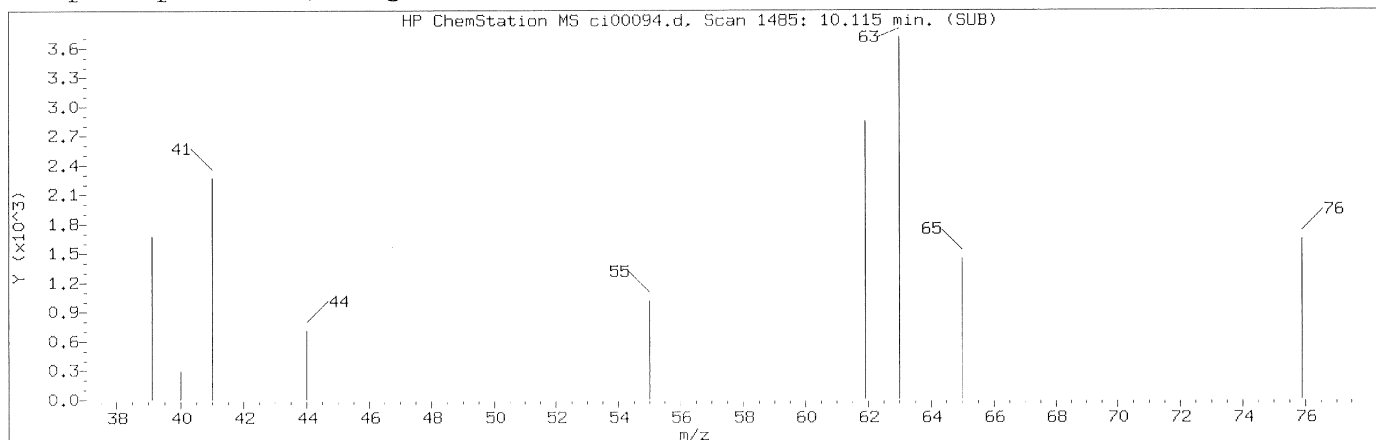
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

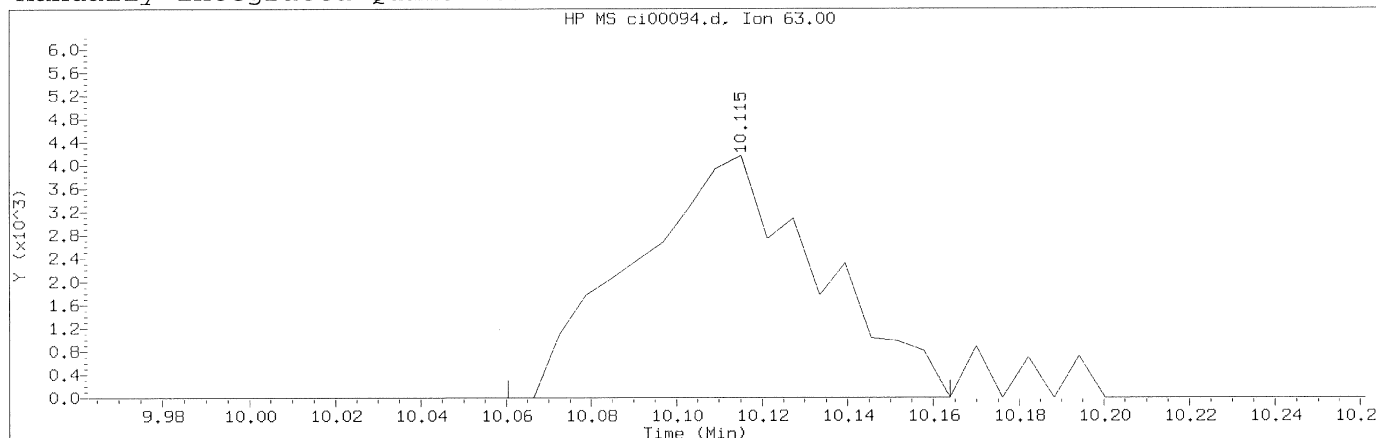
Compound Number	: 53		
Compound Name	: Ethyl Acrylate		
Scan Number	: 1481		
Retention Time (minutes)	: 10.091		
Quant Ion	: 55.00		
Area	: 16275		
Concentration (ppb(v))	: 0.2247		
Integration start scan	: 1469	Integration stop scan:	1494
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

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

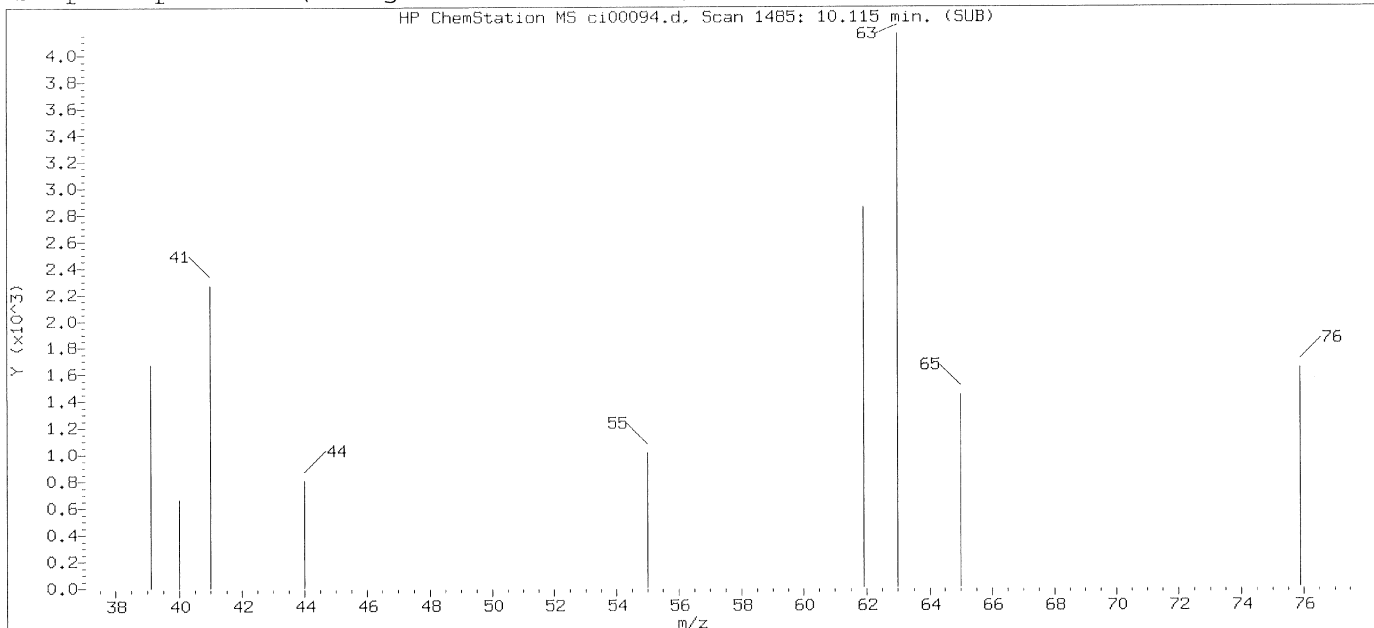
Reason for manual integration: improper integration

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

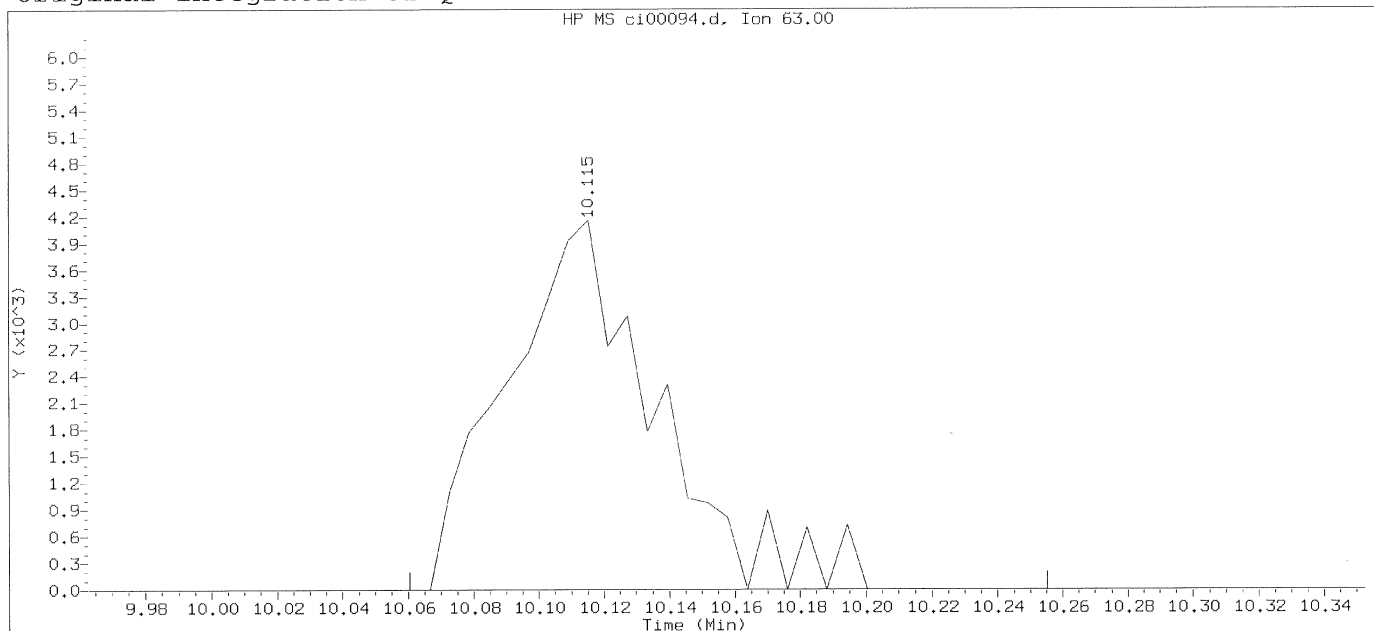
GC/MS audit/management approval:                     mgp1758 9/8/15



Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

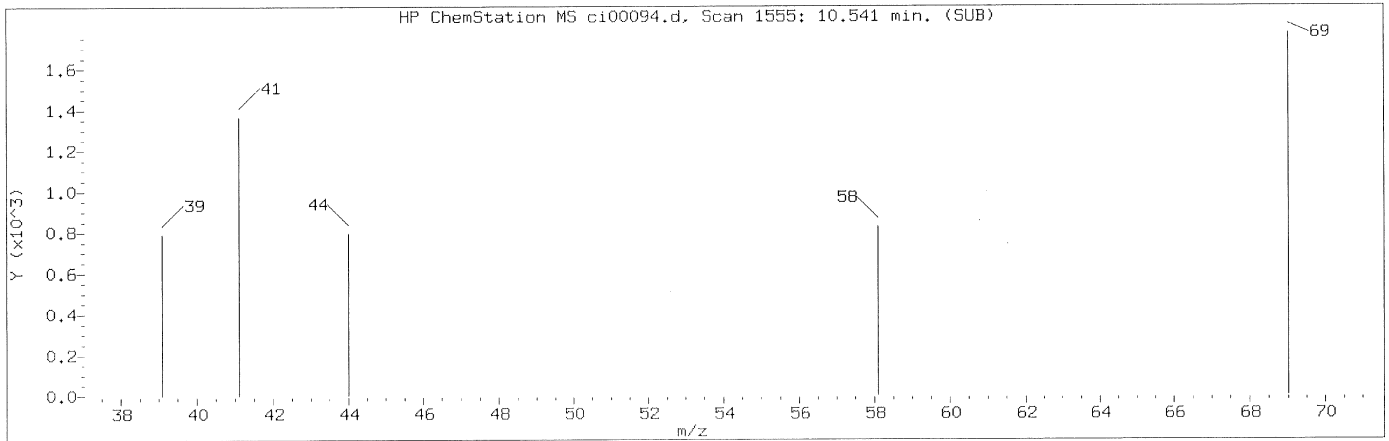
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

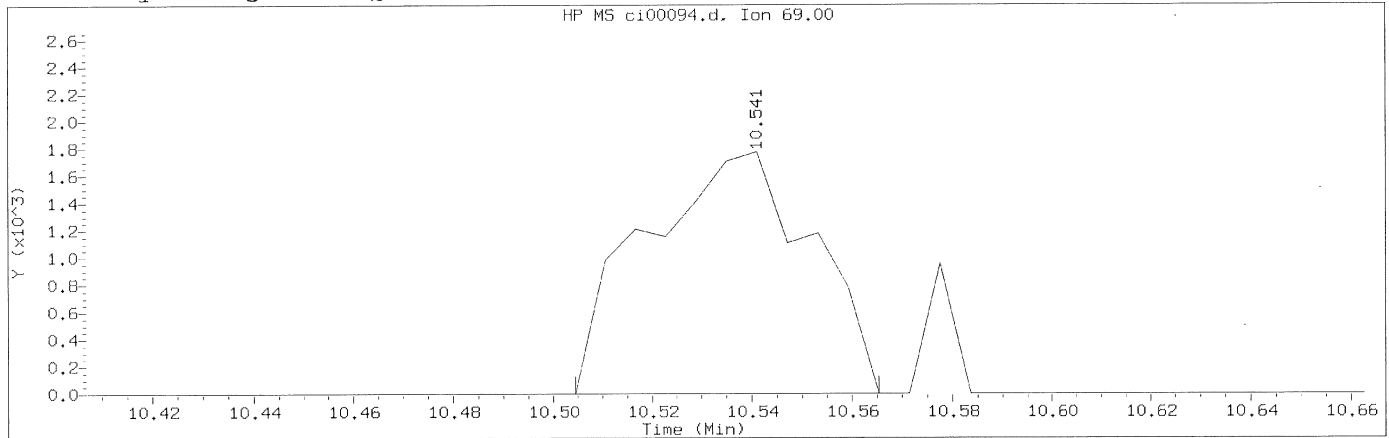
Compound Number : 54  
 Compound Name : 1,2-Dichloropropane  
 Scan Number : 1485  
 Retention Time (minutes): 10.115  
 Quant Ion : 63.00  
 Area : 13258  
 Concentration (ppb(v)) : 0.2366  
 Integration start scan : 1475  
 Y at integration start : 0  
 Integration stop scan: 1507  
 Y at integration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

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

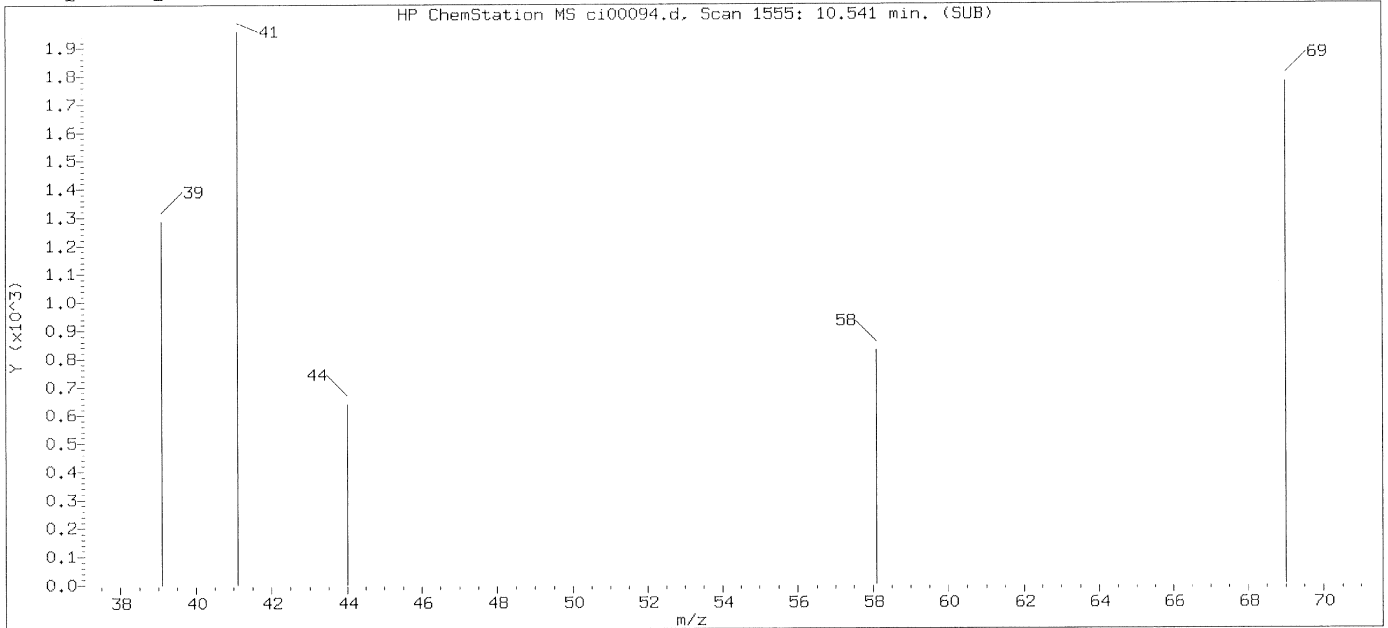
Compound Number : 57  
Compound Name : Methyl Methacrylate  
Scan Number : 1555  
Retention Time (minutes): 10.541  
Quant Ion : 69.00  
Area (flag) : 4127M  
Concentration (ppb(v)) : 0.1033  
Integration start scan : 1548 Integration stop scan: 1558  
Y at integration start : 0 Y at integration end: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

Reason for manual integration: improper integration

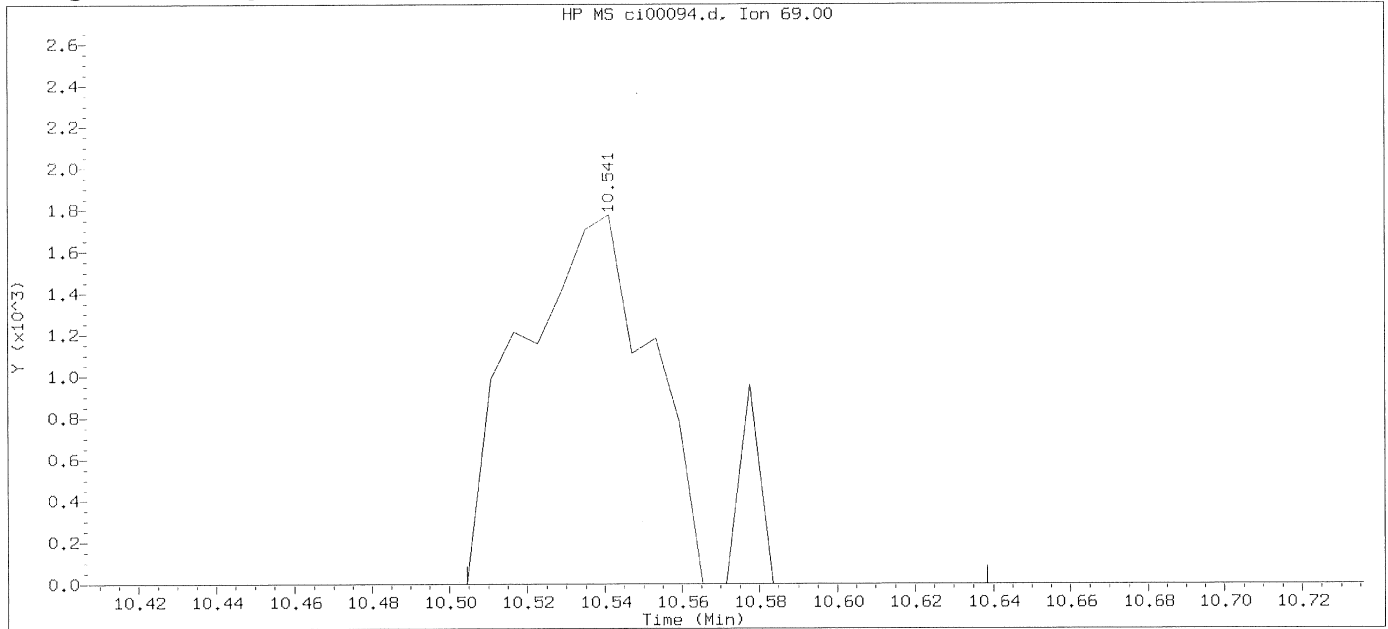
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

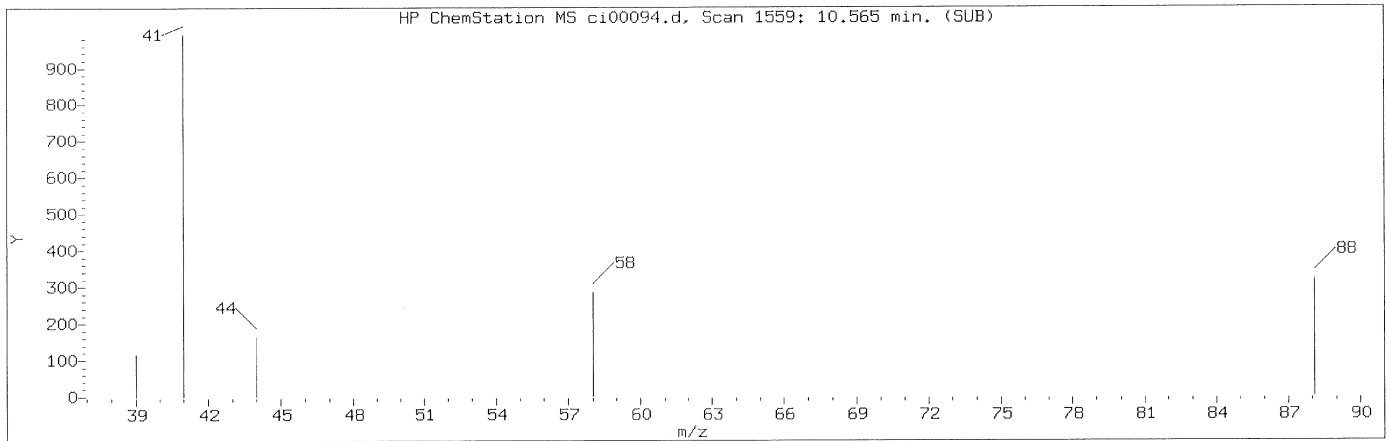
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

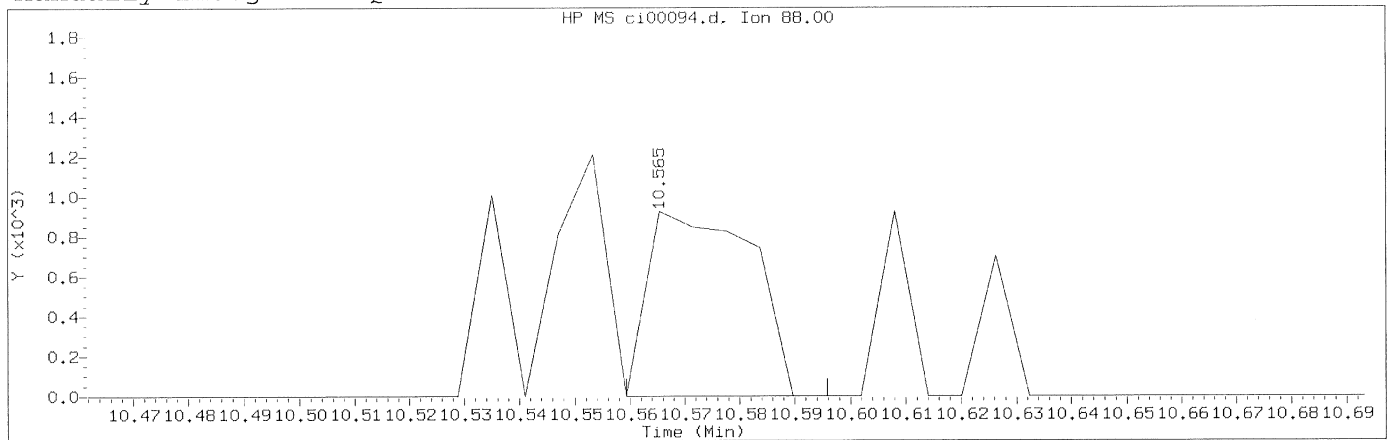
Compound Number : 57  
 Compound Name : Methyl Methacrylate  
 Scan Number : 1555  
 Retention Time (minutes): 10.541  
 Quant Ion : 69.00  
 Area : 4478  
 Concentration (ppb(v)) : 0.1301  
 Integration start scan : 1548  
 Y at integration start : 0  
 Integration stop scan: 1570  
 Y at integration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

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

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

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

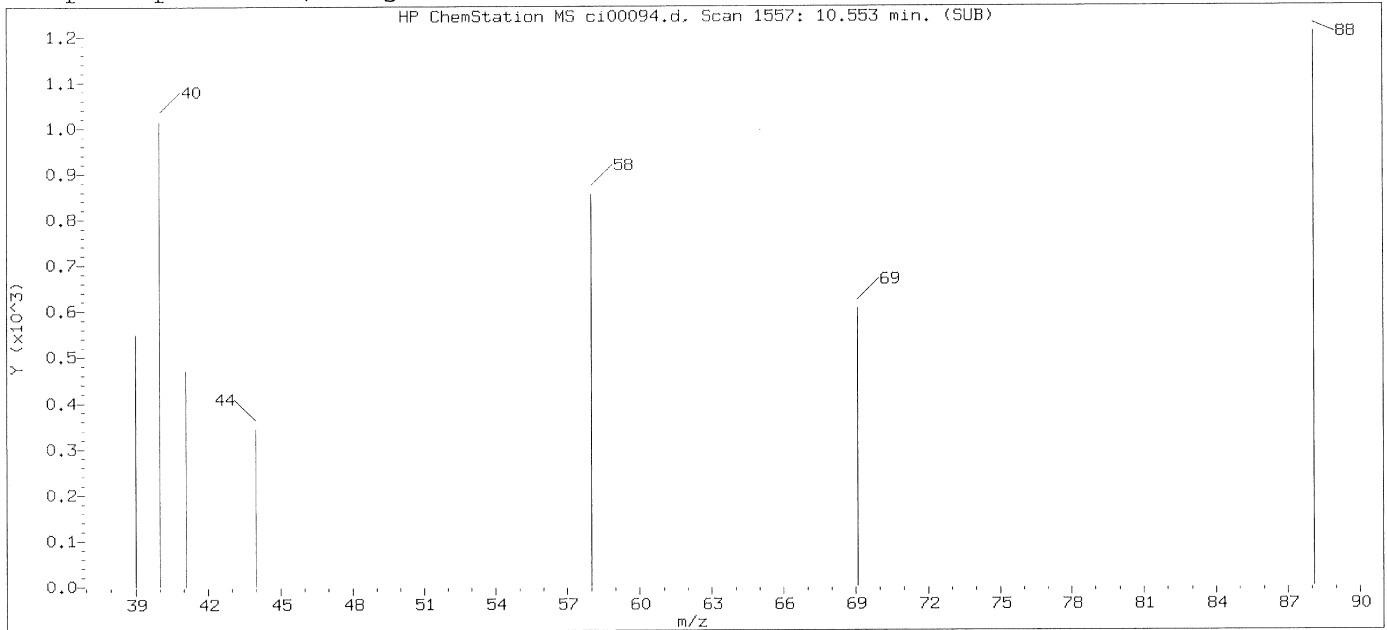
Compound Number : 56  
Compound Name : 1,4-Dioxane  
Scan Number : 1559  
Retention Time (minutes): 10.565  
Quant Ion : 88.00  
Area (flag) : 1217M  
Concentration (ppb(v)) : 0.0507  
Integration start scan : 1557 Integration stop scan: 1563  
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

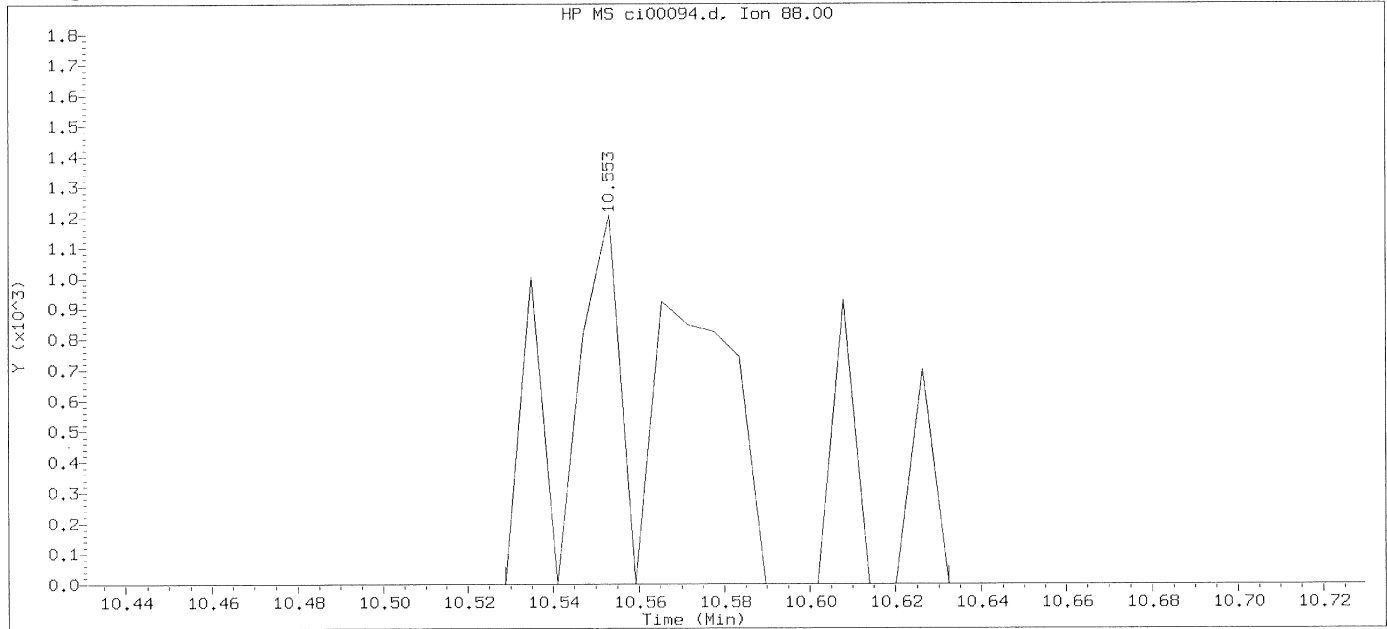
Digitally signed by Jacob E. Bailey  
Analyst responsible for change: on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

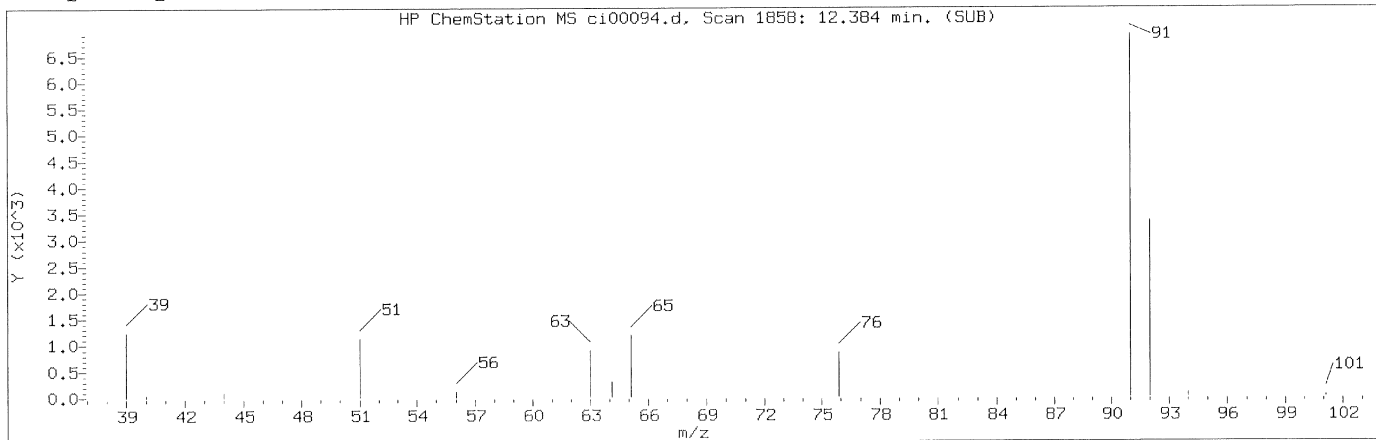
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

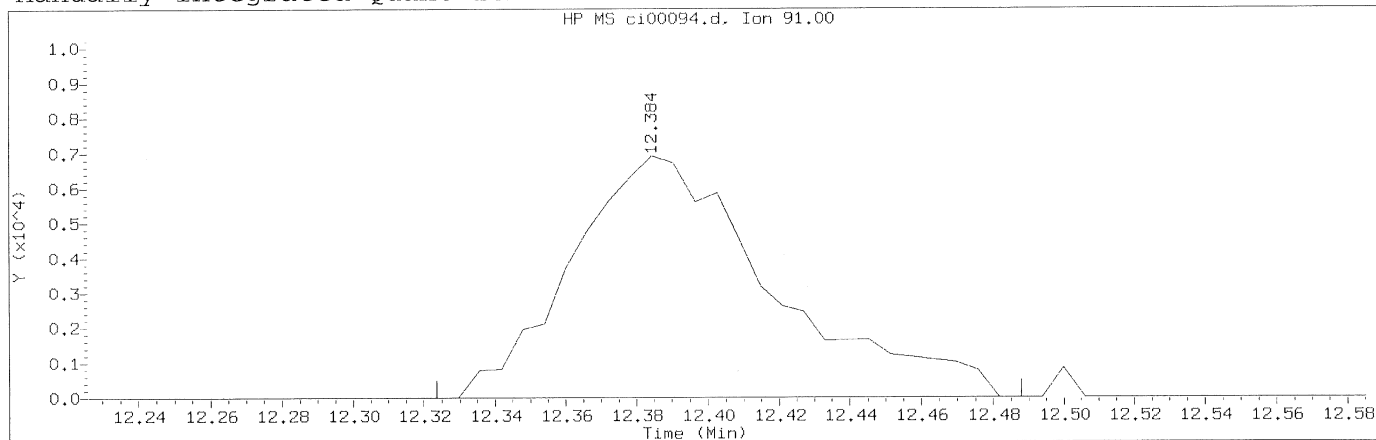
Compound Number : 56  
Compound Name : 1,4-Dioxane  
Scan Number : 1557  
Retention Time (minutes): 10.553  
Quant Ion : 88.00  
Area : 2915  
Concentration (ppb(v)) : 0.1279  
Integration start scan : 1552  
Integration stop scan: 1569  
Y at integration start : 0  
Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

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

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

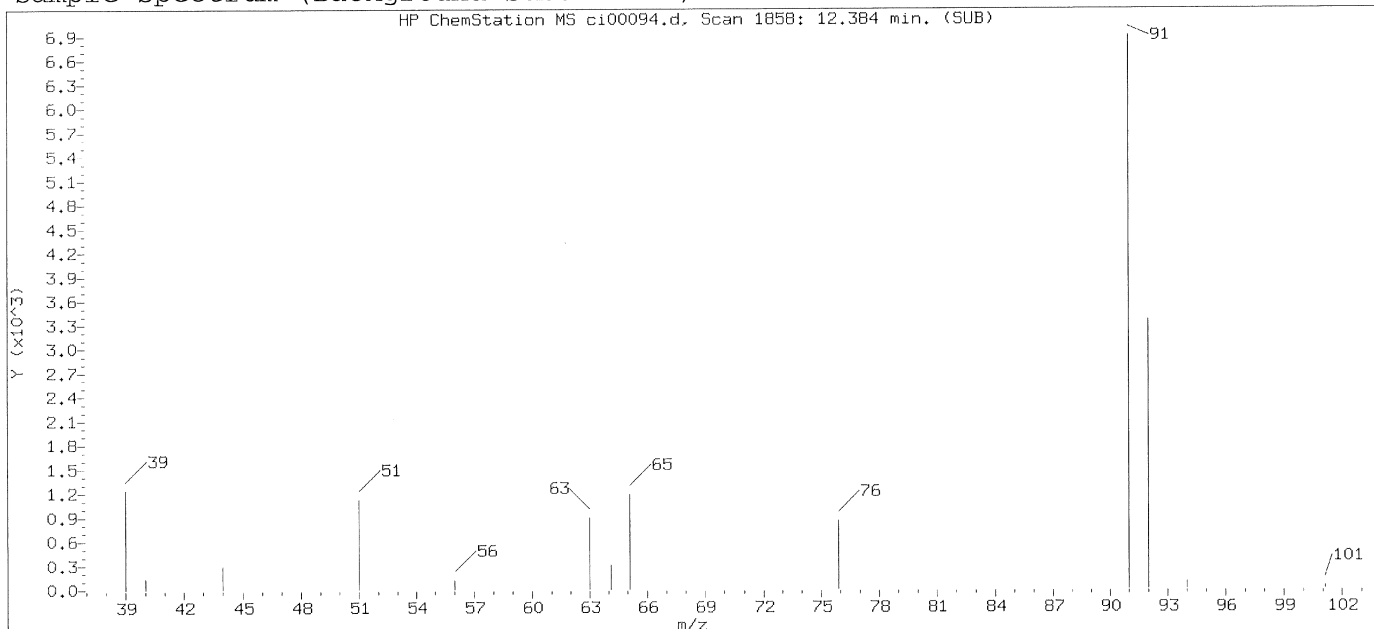
Compound Number : 61  
 Compound Name : Toluene  
 Scan Number : 1858  
 Retention Time (minutes): 12.384  
 Quant Ion : 91.00  
 Area (flag) : 27035M  
 Concentration (ppb(v)) : 0.1800  
 Integration start scan : 1847      Integration stop scan: 1874  
 Y at integration start : 0      Y at integration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

Reason for manual integration: improper integration

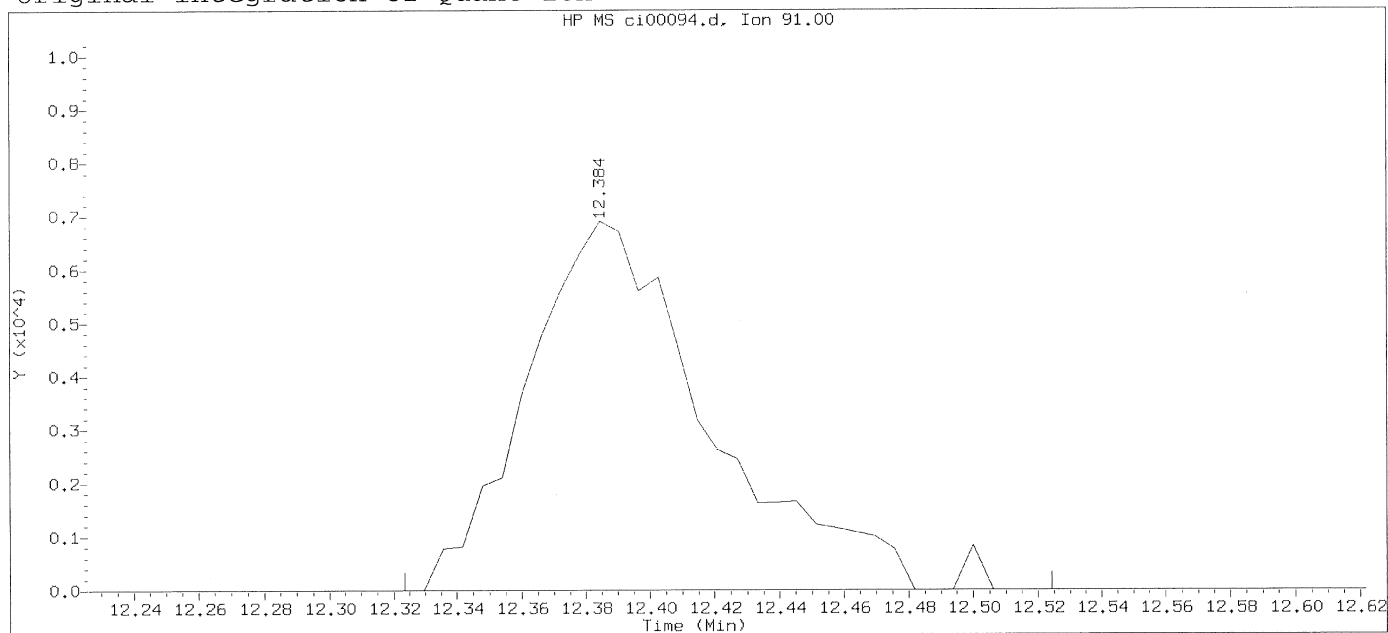
Digitally signed by Jacob E. Bailey  
 Analyst responsible for change: on 09/08/2015 at 14:57.  
 Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00094.d

Injection date and time: 04-SEP-2015 05:38

Instrument ID: HP09464.i

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m

Sublist used: all

Calibration date and time: 03-SEP-2015 20:54

Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

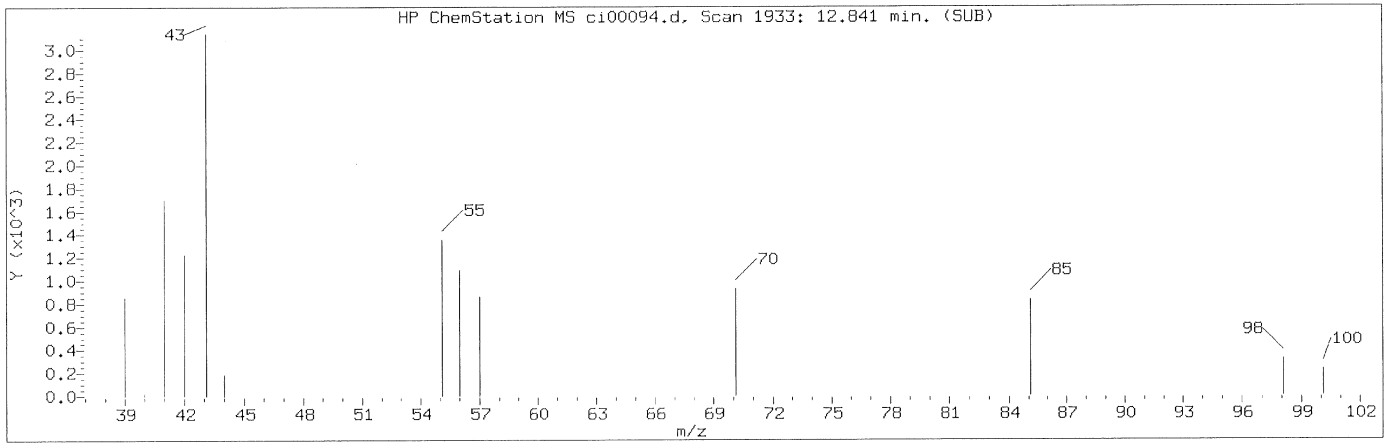
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

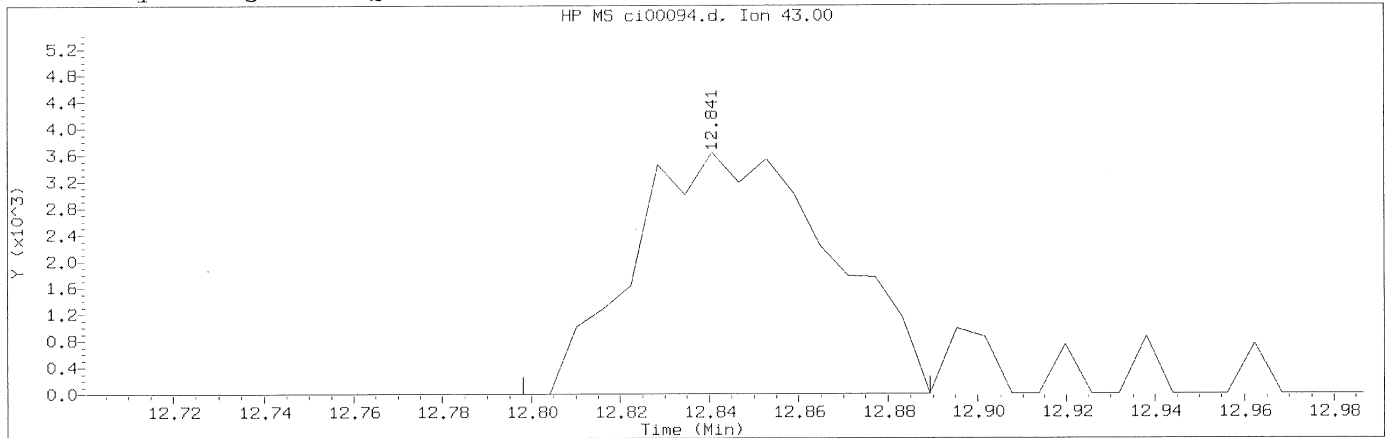
Compound Number	: 61		
Compound Name	: Toluene		
Scan Number	: 1858		
Retention Time (minutes)	: 12.384		
Quant Ion	: 91.00		
Area	: 27341		
Concentration (ppb(v))	: 0.2188		
Integration start scan	: 1847	Integration stop scan:	1880
Y at integration start	: 0	Y at integration end:	0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

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

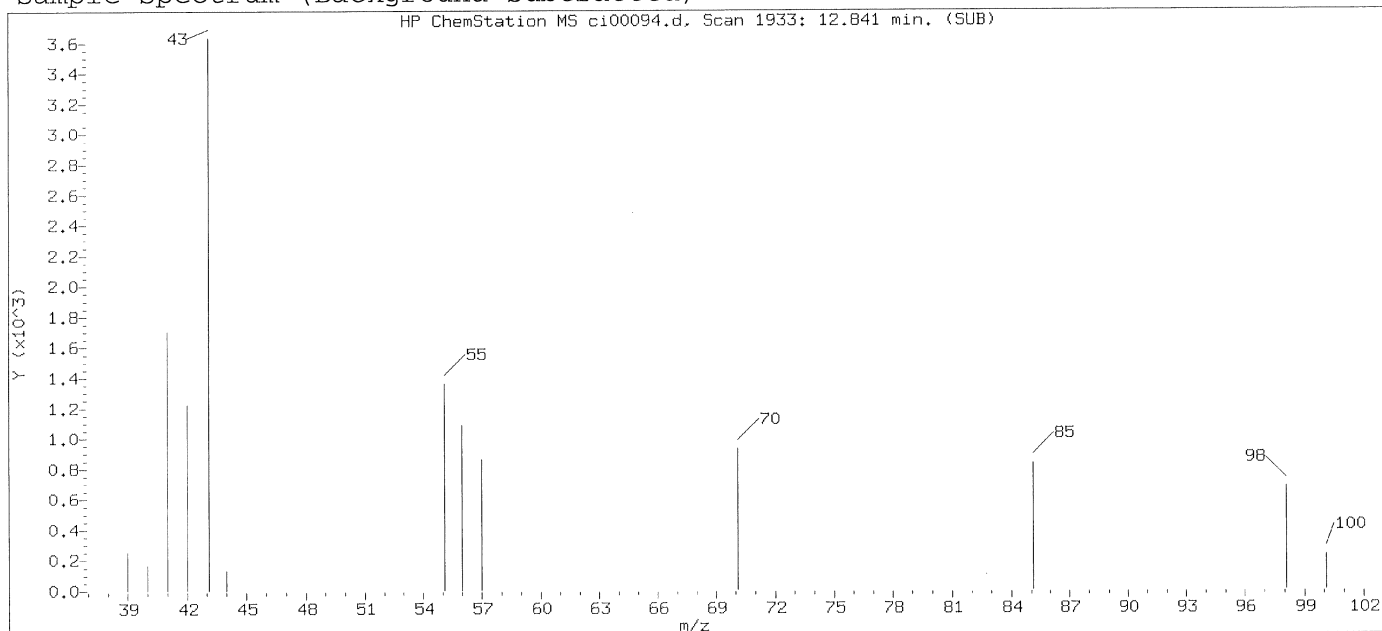
Reason for manual integration: improper integration

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

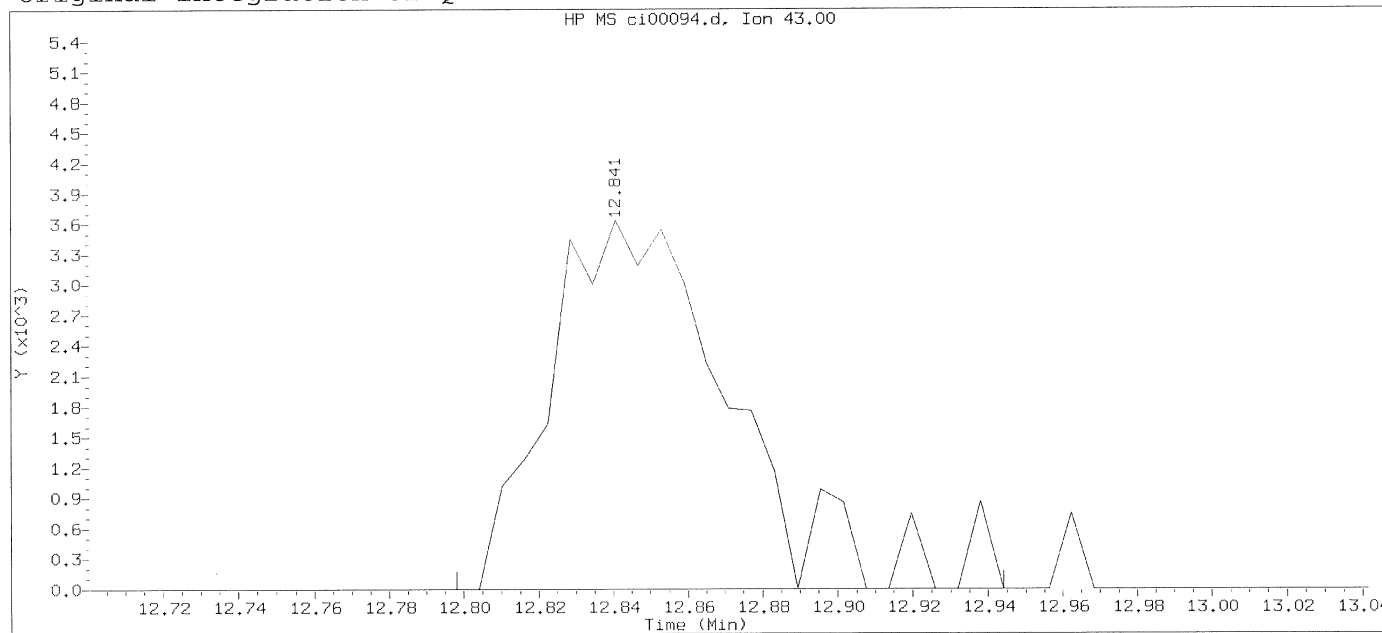
GC/MS audit/management approval: mgp1758 9/8/15



Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

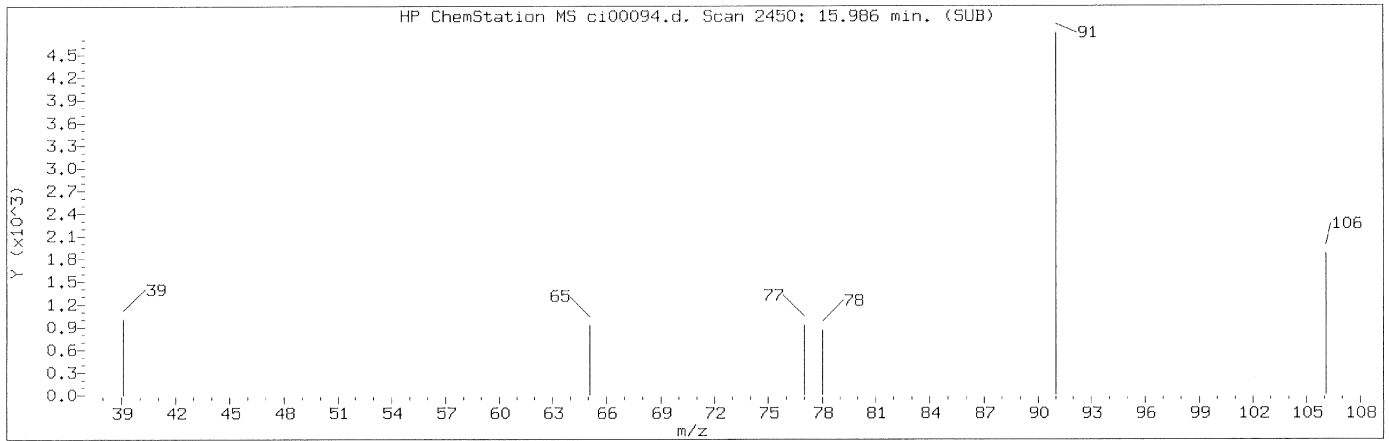
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

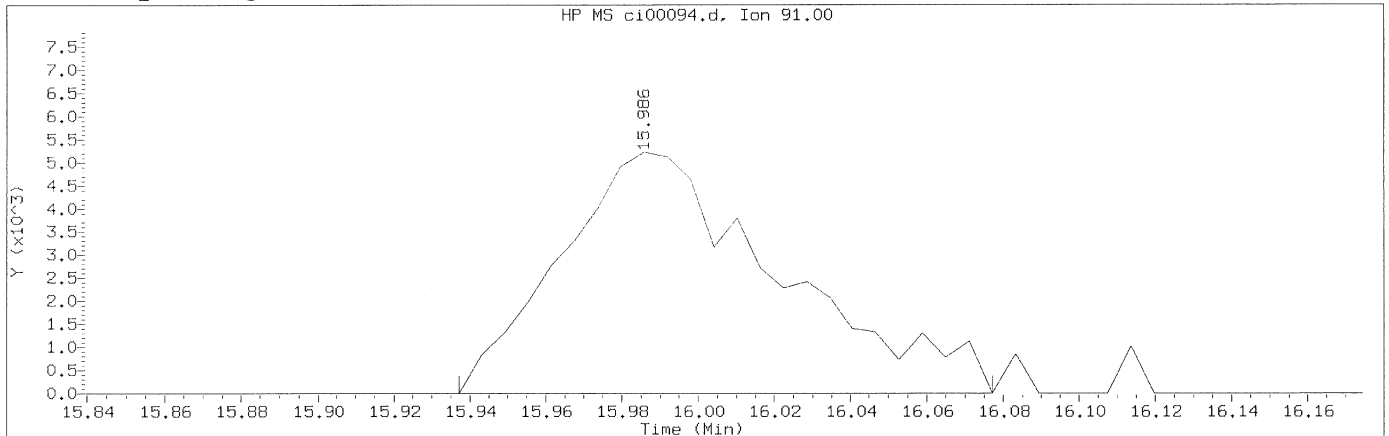
Compound Number : 62  
 Compound Name : Octane  
 Scan Number : 1933  
 Retention Time (minutes): 12.841  
 Quant Ion : 43.00  
 Area : 12456  
 Concentration (ppb(v)) : 0.1071  
 Integration start scan : 1925  
 Y at integration start : 0  
 Integration stop scan: 1949  
 Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

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

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

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

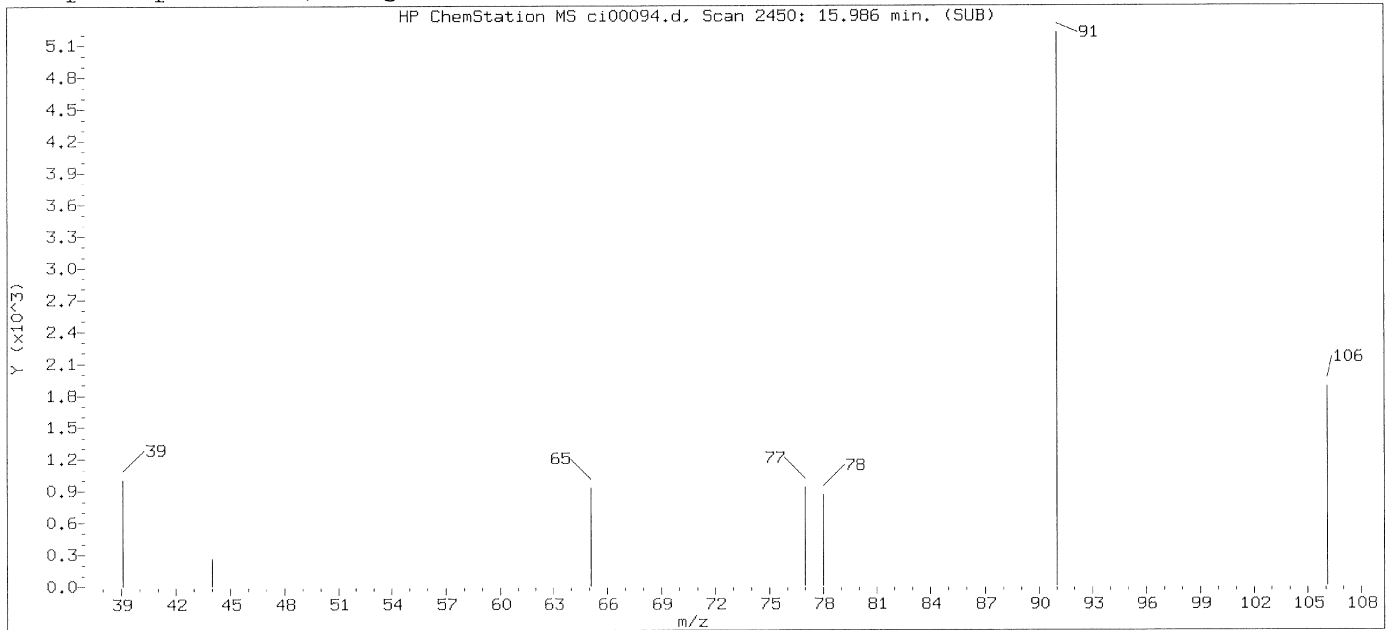
Reason for manual integration: improper integration

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

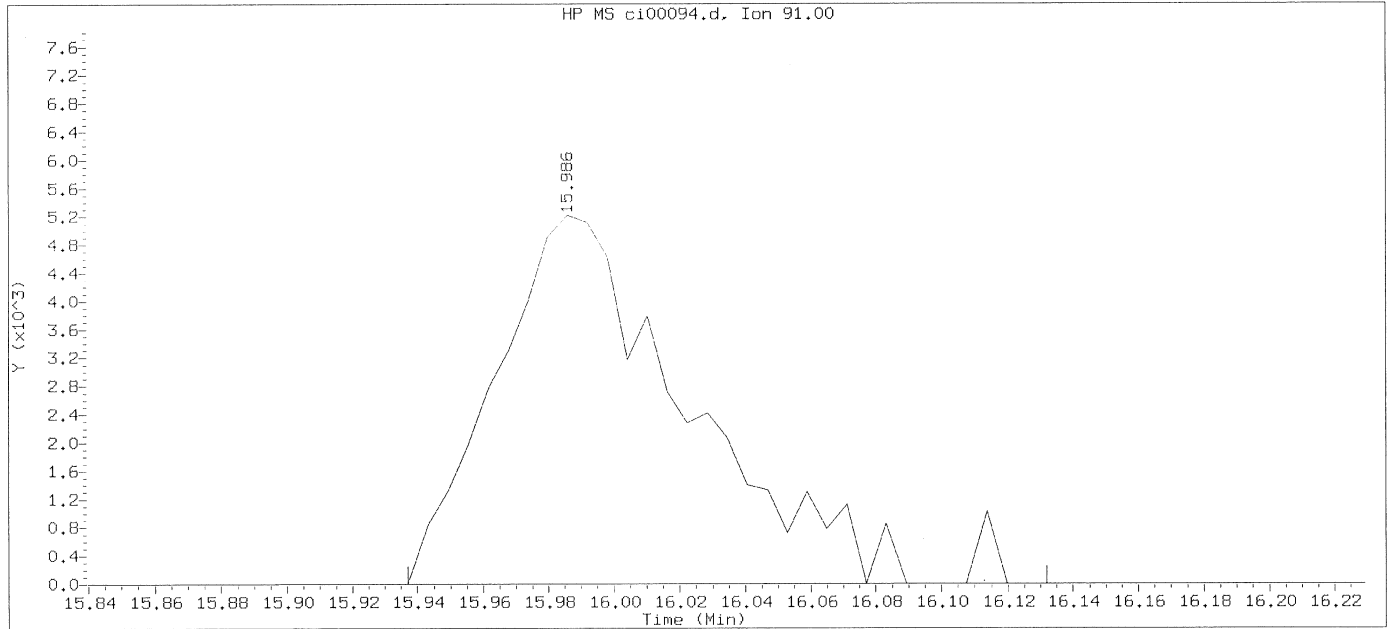
*mpt/758 9/8/15*

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

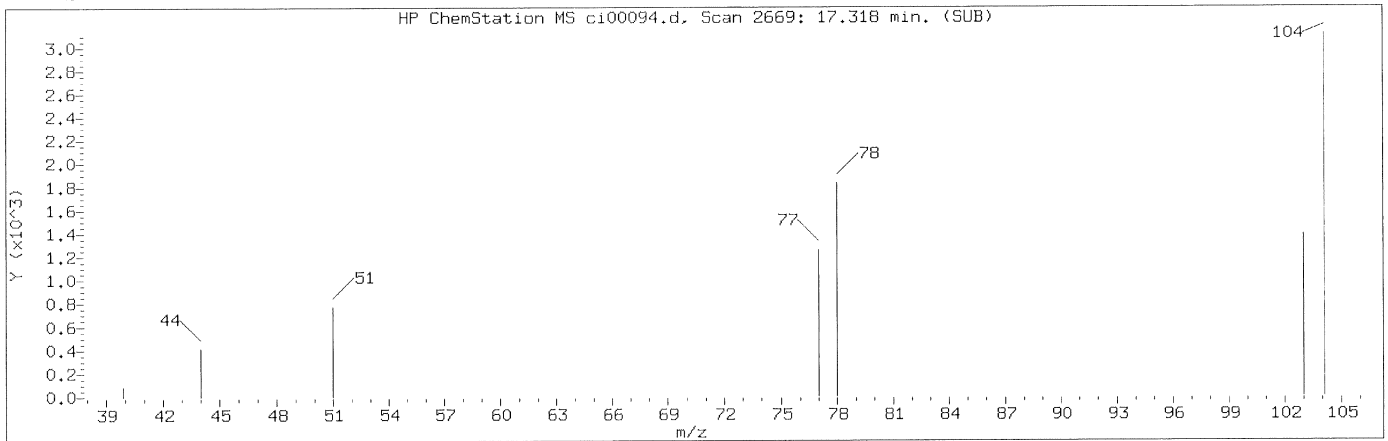
Method used: /chem/HP09464.i/15sep03.b/to-15.m      Sublist used: all  
Calibration date and time: 03-SEP-2015 20:54  
Date, time and analyst ID of latest file update: 04-Sep-2015 06:17 Automation

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

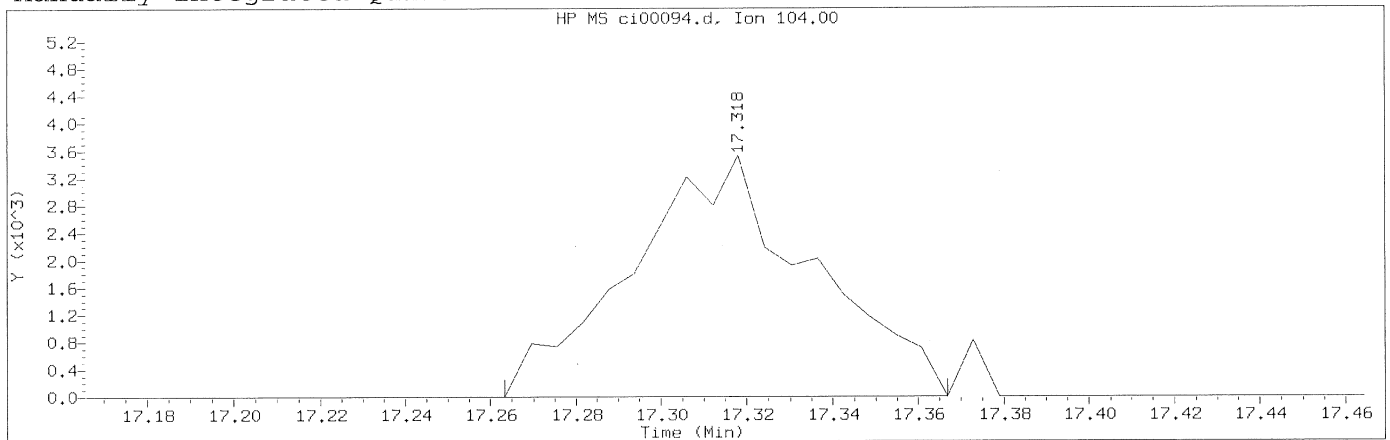
Compound Number : 74  
Compound Name : Ethylbenzene  
Scan Number : 2450  
Retention Time (minutes): 15.986  
Quant Ion : 91.00  
Area : 21566  
Concentration (ppb(v)) : 0.1472  
Integration start scan : 2441      Integration stop scan: 2473  
Y at integration start : 0      Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

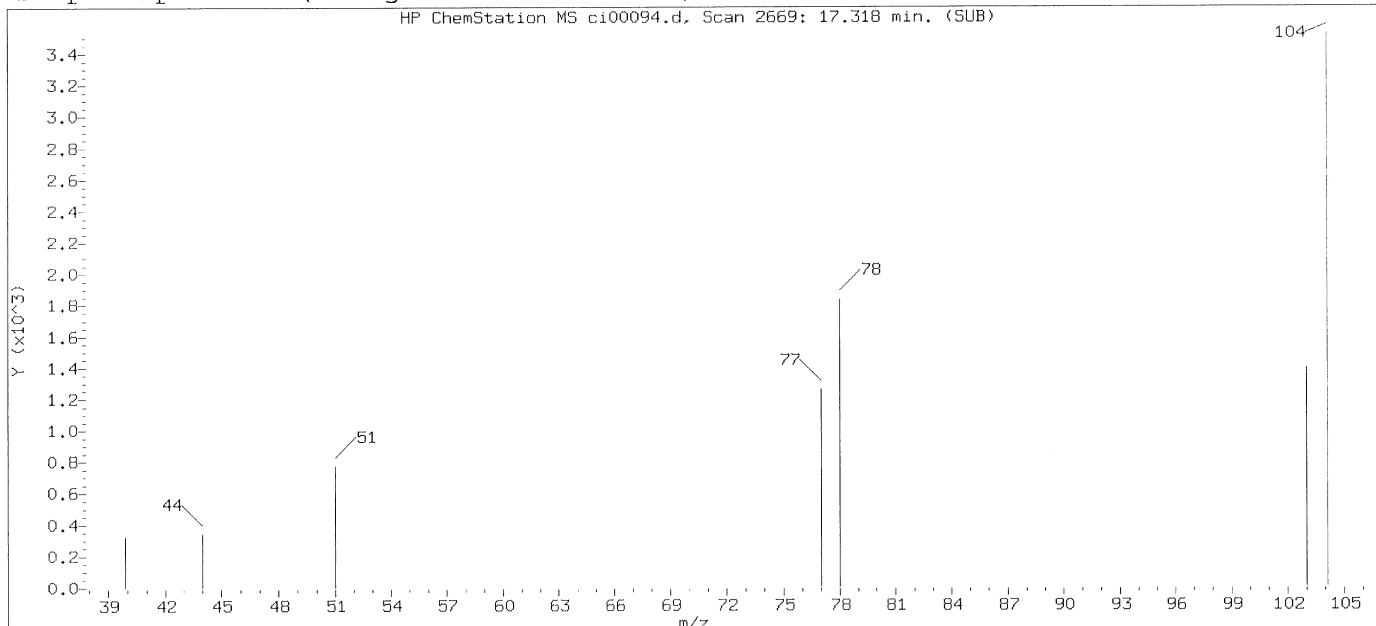
Compound Number : 78  
 Compound Name : Styrene  
 Scan Number : 2669  
 Retention Time (minutes): 17.318  
 Quant Ion : 104.00  
 Area (flag) : 10372M  
 Concentration (ppb(v)) : 0.1019  
 Integration start scan : 2659      Integration stop scan: 2676  
 Y at integration start : 0      Y at integration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

Reason for manual integration: improper integration

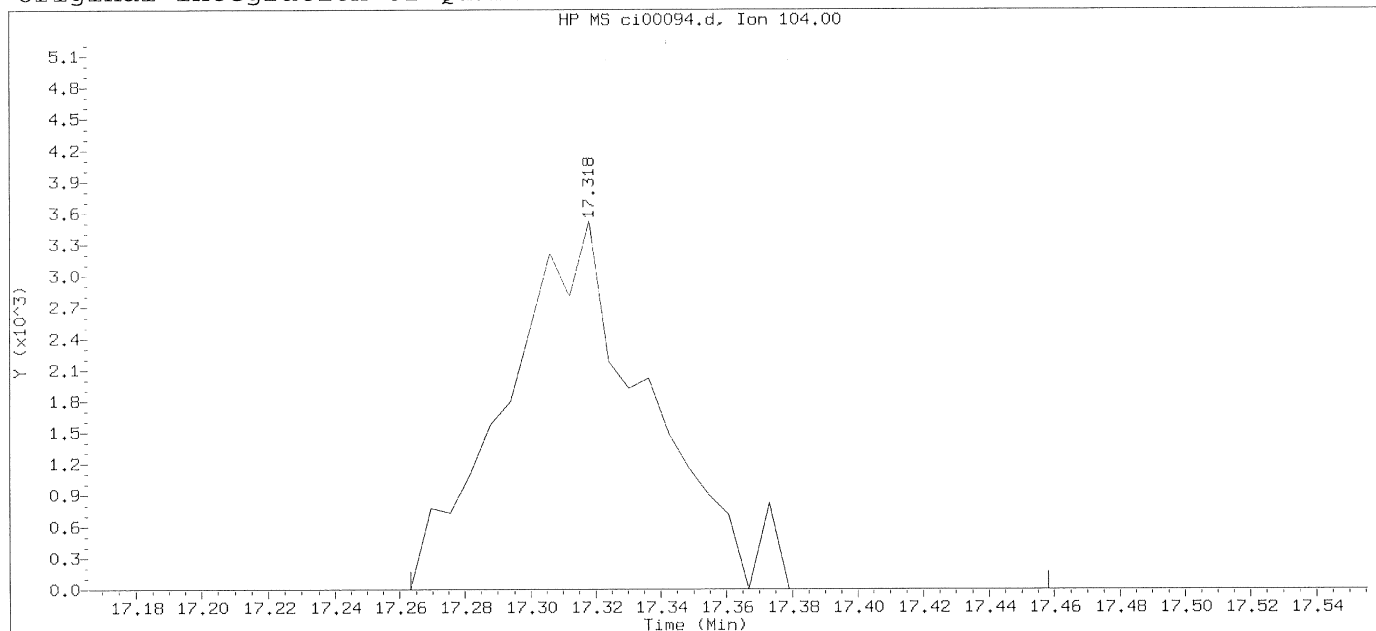
Analyst responsible for change: Digitally signed by Jacob E. Bailey on 09/08/2015 at 14:57.  
 Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

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

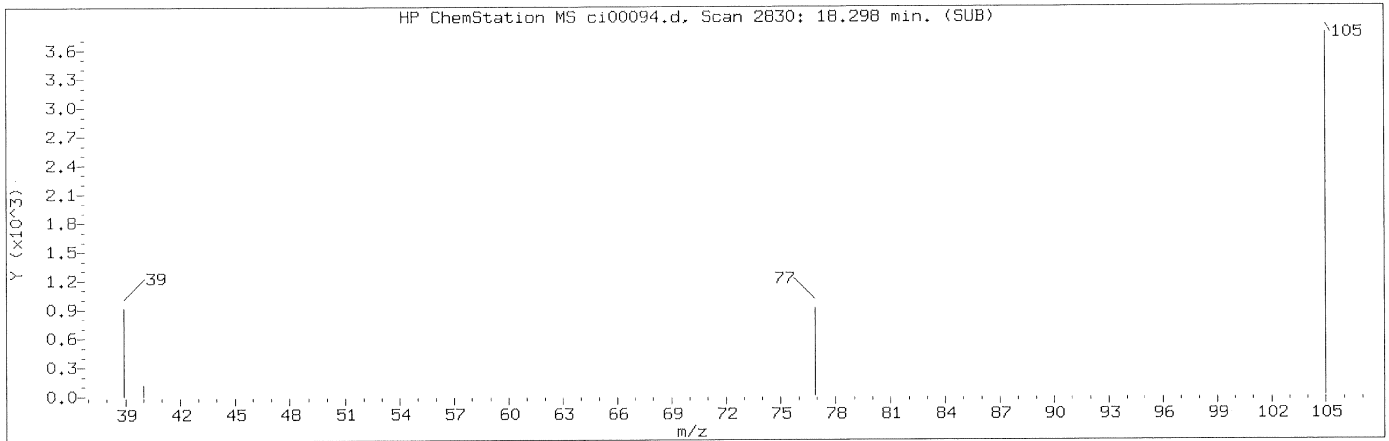
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

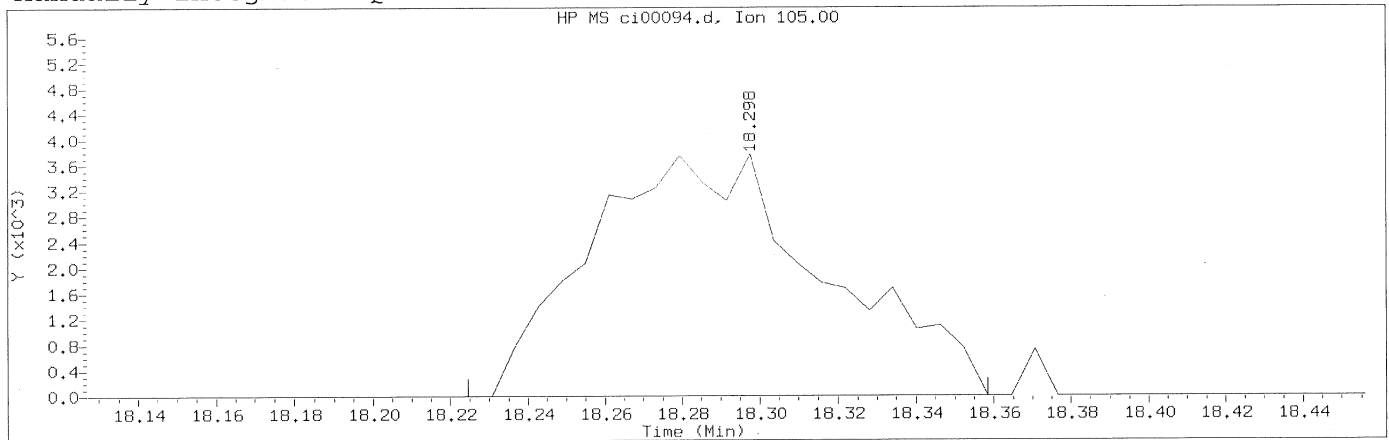
Compound Number	: 78	Integration stop scan:	2691
Compound Name	: Styrene	Y at integration end:	0
Scan Number	: 2669		
Retention Time (minutes)	: 17.318		
Quant Ion	: 104.00		
Area	: 10674		
Concentration (ppb(v))	: 0.1164		
Integration start scan	: 2659		
Y at integration start	: 0		

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sublist used: all

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

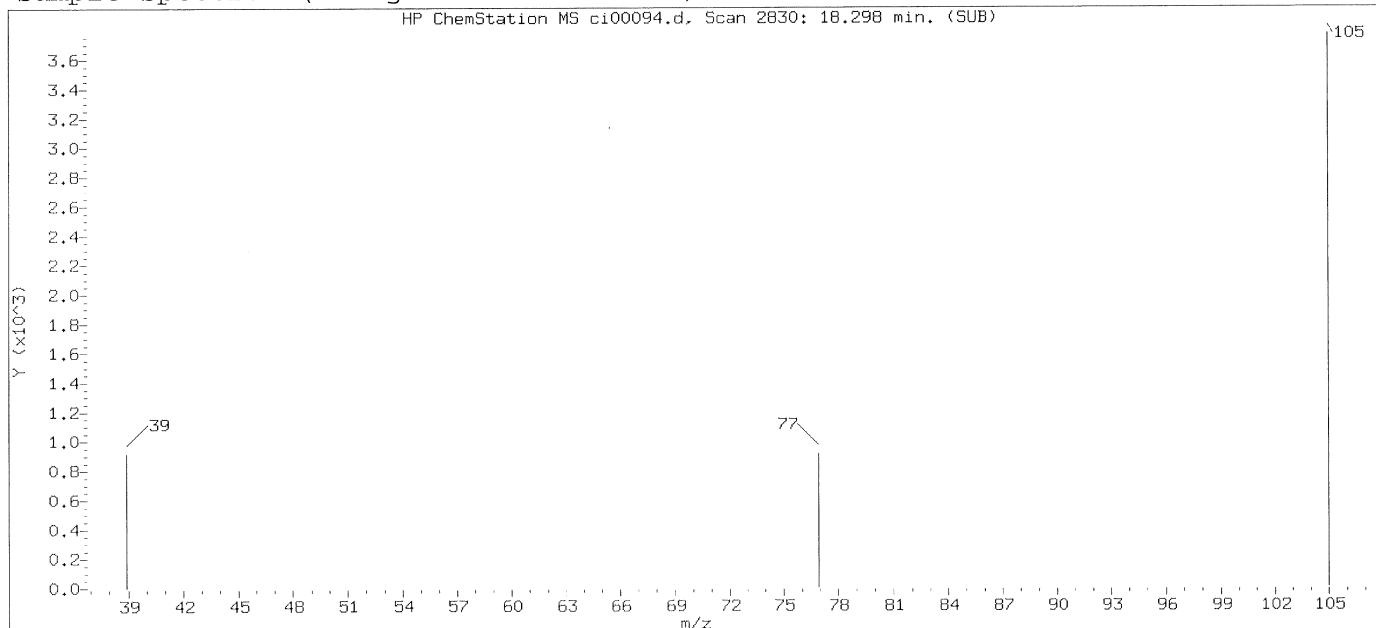
Compound Number : 80  
Compound Name : Cumene  
Scan Number : 2830  
Retention Time (minutes): 18.298  
Quant Ion : 105.00  
Area (flag) : 15799M  
Concentration (ppb(v)) : 0.1092  
Integration start scan : 2817      Integration stop scan: 2839  
Y at integration start : 0      Y at integration end: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

Reason for manual integration: improper integration

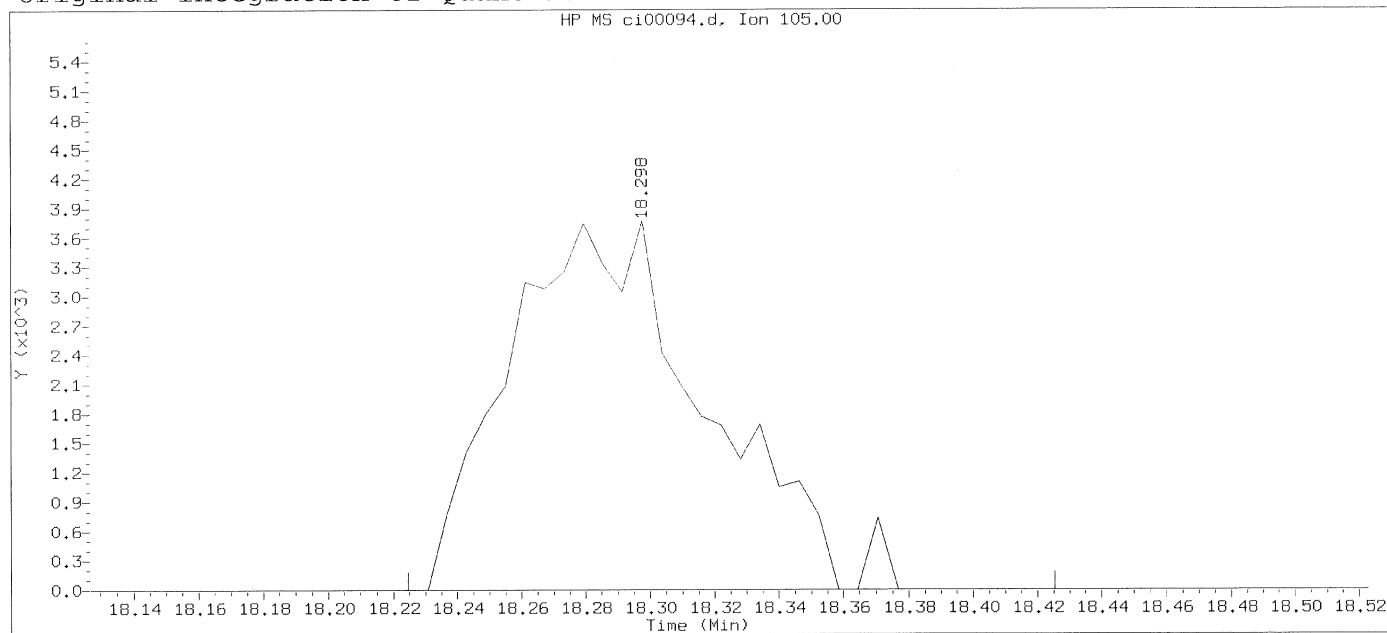
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
on 09/08/2015 at 14:57.  
Target 3.5 esignature user ID: jeb07445

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

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

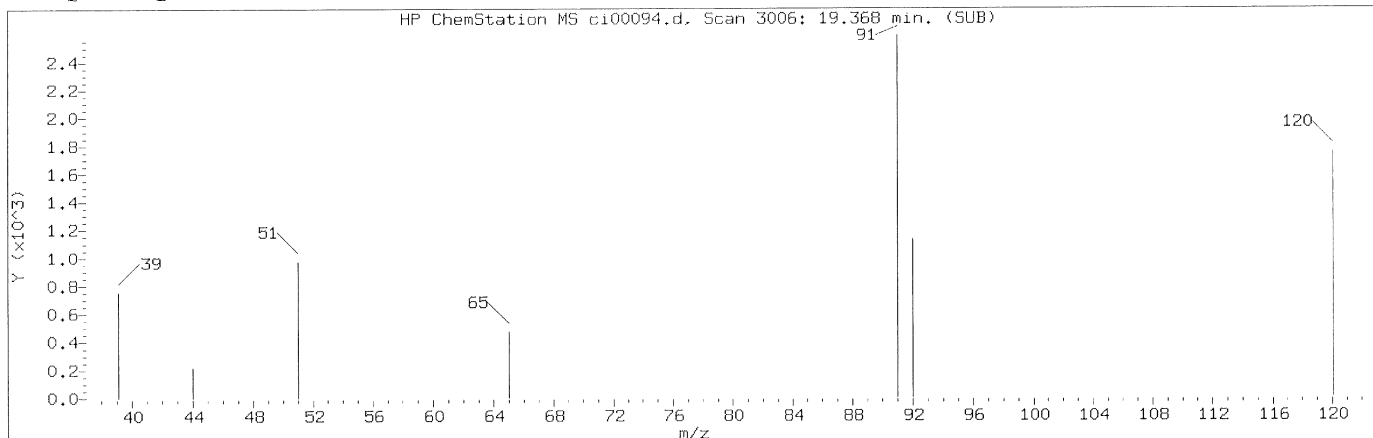
Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

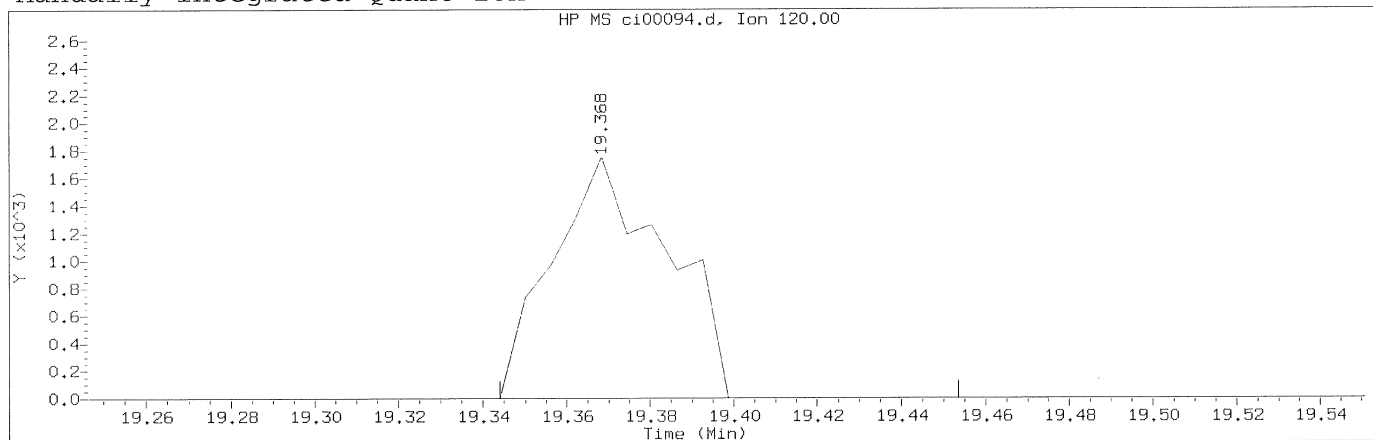
Compound Number : 80  
Compound Name : Cumene  
Scan Number : 2830  
Retention Time (minutes): 18.298  
Quant Ion : 105.00  
Area : 16066  
Concentration (ppb(v)) : 0.1131  
Integration start scan : 2817  
Integration stop scan: 2850  
Y at integration start : 0  
Y at integration end: 0

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

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

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

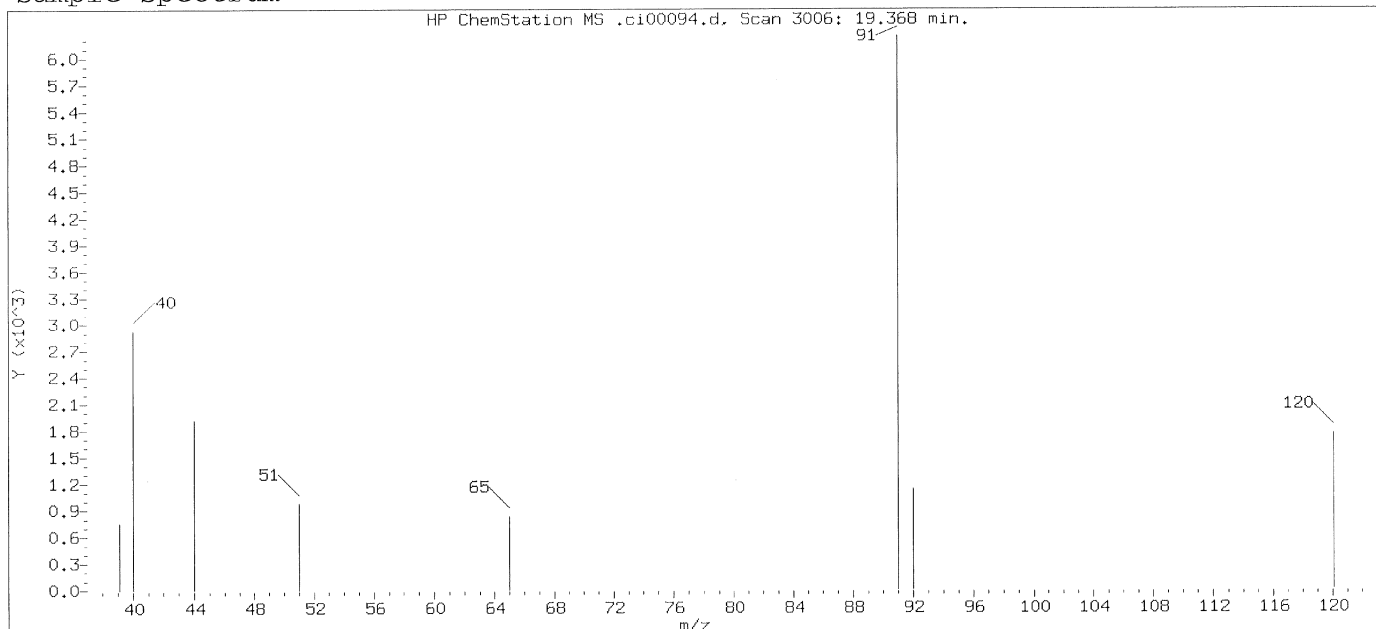
Reason for manual integration: missed peak

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

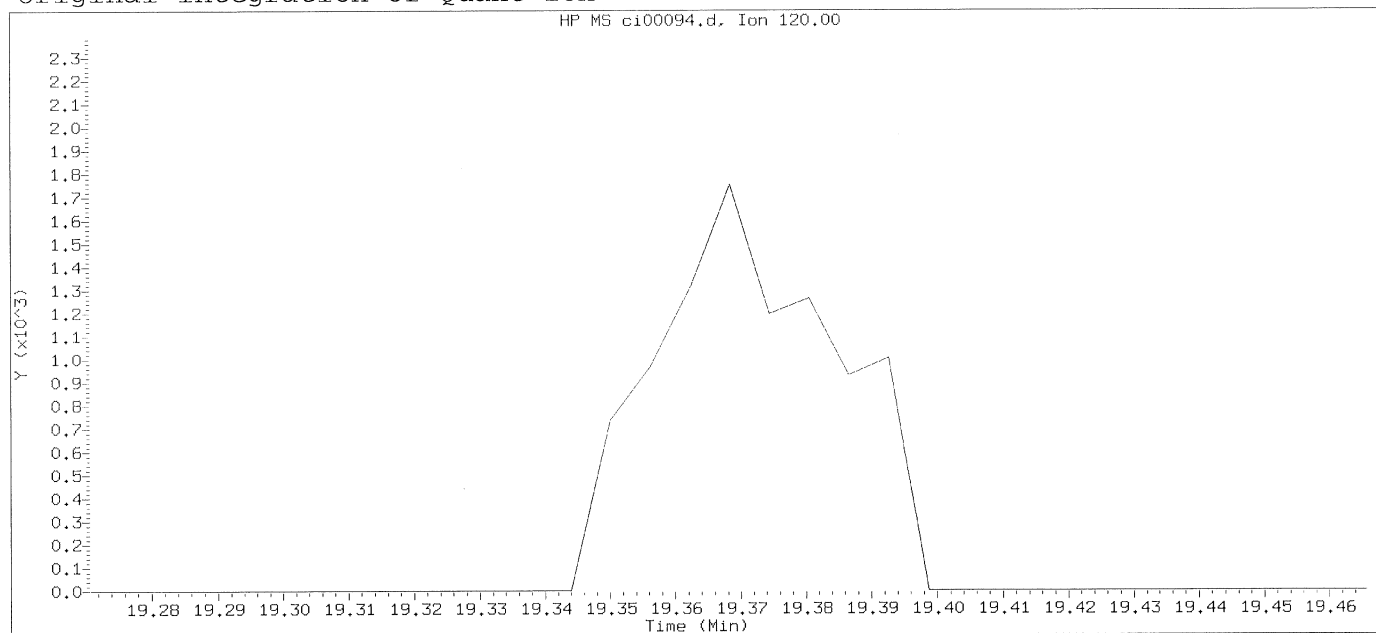
GC/MS audit/management approval: mp1758 9/8/15



Sample Spectrum



Original Integration of Quant Ion



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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

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

Sample Name: mdlv0.2

Lab Sample ID: mdlv0.2

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

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

VBLKC75

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKC75

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

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

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

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Contains data for Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 12 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 44 target compounds and their detection status.

VBLKC75

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKC75

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

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

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

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

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

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 100 compounds such as Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, etc., all marked as 'Not Detected'.

VBLKC75

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air VBLKC75

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

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

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

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

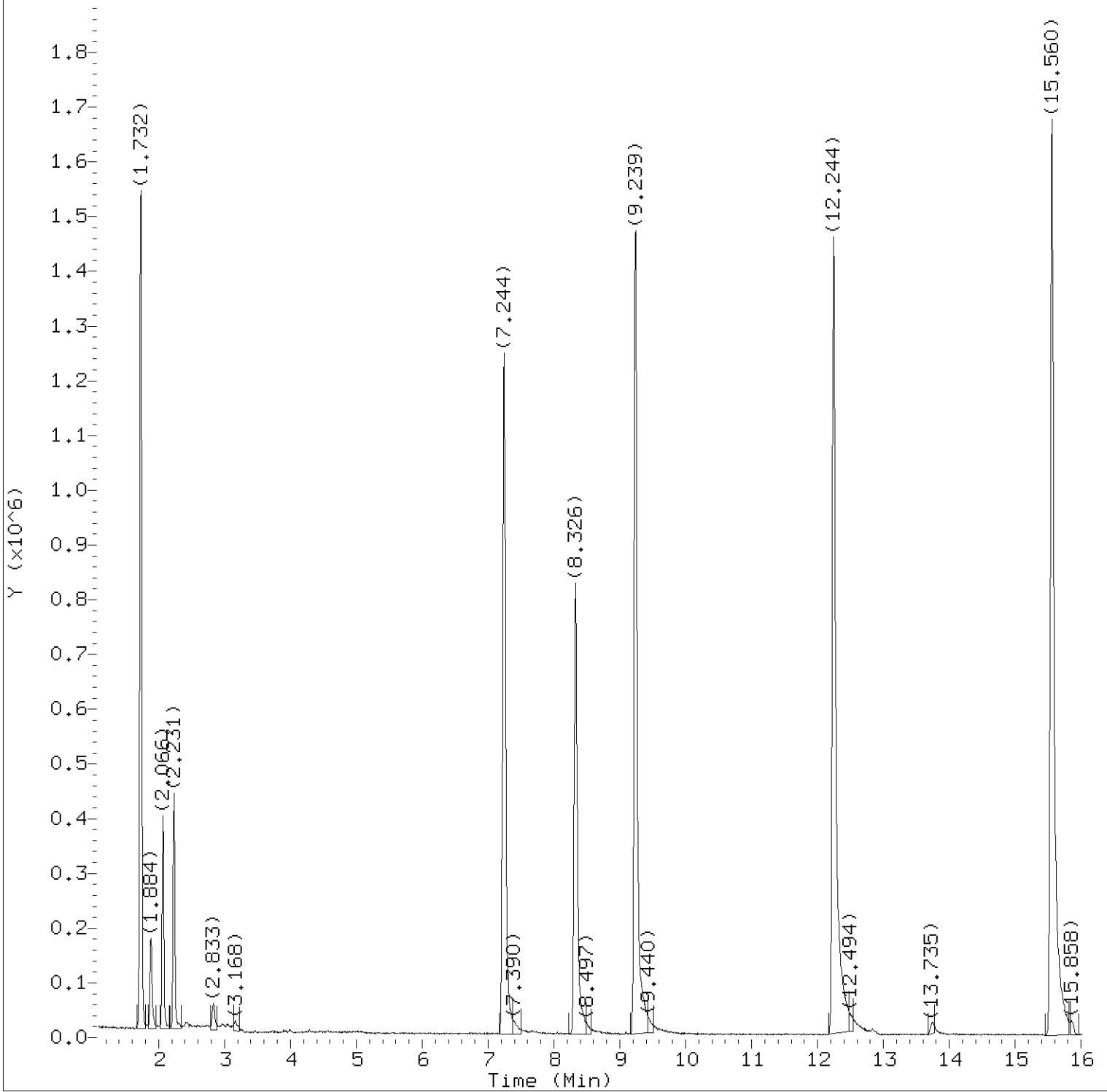
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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

Total number of targets = 99

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

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



Total Ion Chromatogram (TIC)

Target Revision 3.5

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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

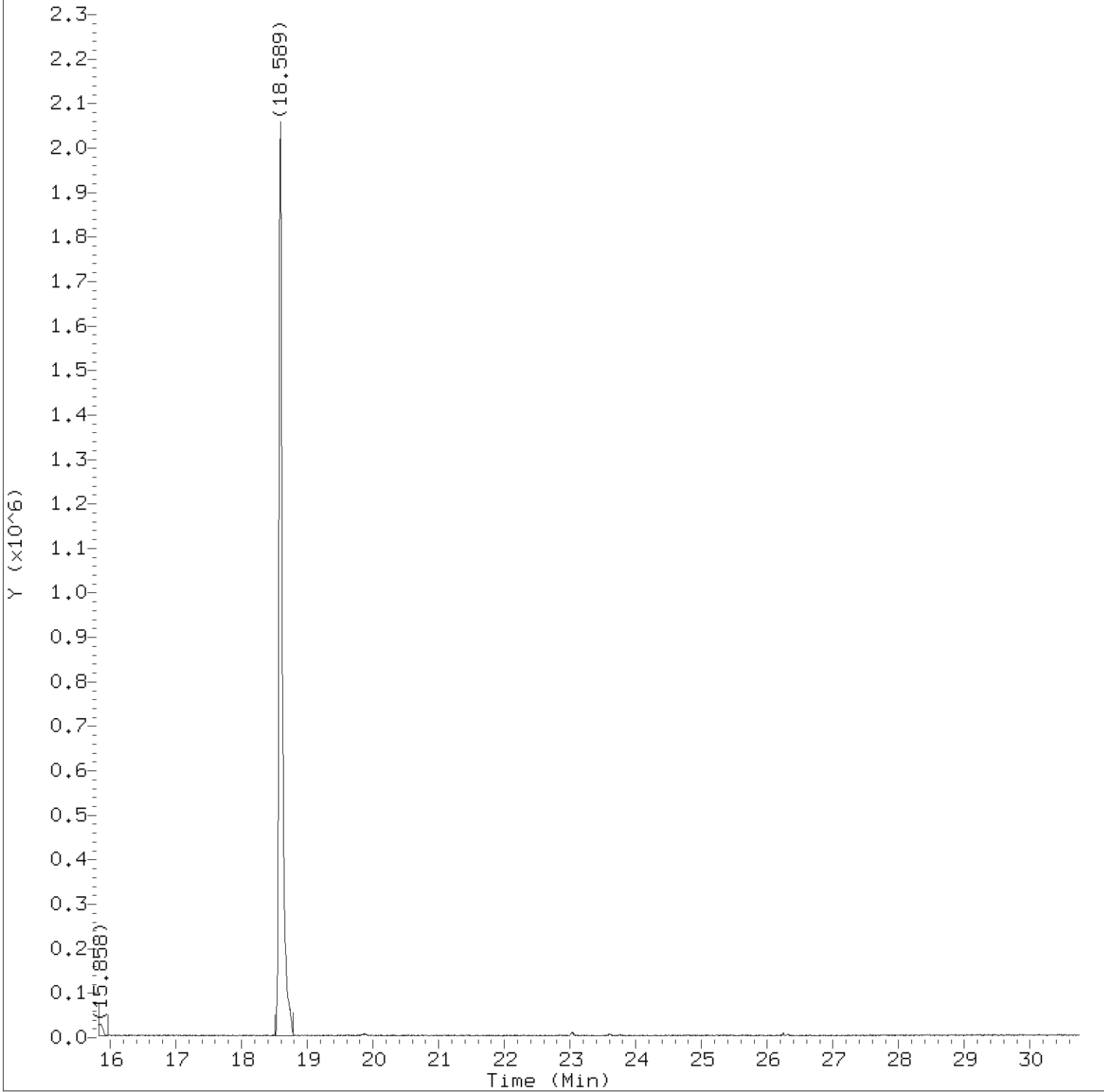
Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75

Lab Sample ID: VBLKC75

Digitally signed by Jacob E. Bailey  
on 09/09/2015 at 14:59.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75

Lab Sample ID: VBLKC75

Digitally signed by Jacob E. Bailey  
on 09/09/2015 at 14:59.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

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

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

Date, time and analyst ID of latest file update: 09-Sep-2015 14:58 jeb07445

Sample Name: VBLKC75

Lab Sample ID: VBLKC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.244	130	489337	10.000
51)*1,4-Difluorobenzene	(2)	9.239	114	1686652	10.000
71)*Chlorobenzene-d5	(3)	15.560	117	1681592	10.000

\* = Compound is an internal standard.

page 1 of 1

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

LCSC75

Lancaster Laboratories, Inc.  
 Analysis Summary for GC/MS Volatiles in Air LCSC75

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: 04-SEP-2015 12:04  
 Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

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

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.232( 0.000)	1011	130	478092 ( -24)	10.00		377640 - 881158
51) 1,4-Difluorobenzene	9.221( 0.000)	1338	114	1262882 ( -22)	10.00		971337 - 2266453
71) Chlorobenzene-d5	15.554( 0.000)	2379	117	1308224 ( -14)	10.00		908333 - 2119441

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.872(-0.000)	41	906721	10.151	10.15		0.5	1
2) Dichlorodifluoromethane	(1)	1.908(-0.000)	85	2232591	9.587	9.59		0.2	1
3) Chlorodifluoromethane	(1)			Not Detected				0.2	1
4) Freon 114	(1)	2.048(-0.000)	85	2128361	10.003	10.00		0.2	1
5) Chloromethane	(1)	2.097(-0.000)	52	346043	8.553	8.55		0.2	1
6) Vinyl Chloride	(1)	2.225(-0.000)	62	1118090	10.201	10.20		0.2	1
7) 1,3-Butadiene	(1)	2.273(-0.000)	54	884677	9.605	9.60		0.4	2
8) Bromomethane	(1)	2.590(-0.000)	94	756488	9.188	9.19		0.2	1
9) Chloroethane	(1)	2.718(-0.000)	64	592712	8.875	8.88		0.2	1
10) Bromoethene	(1)			Not Detected				0.4	2
11) Dichlorofluoromethane	(1)			Not Detected				0.2	1
12) Trichlorofluoromethane	(1)	3.034(-0.000)	101	2210136	9.582	9.58		0.2	1
13) Pentane	(1)			Not Detected				0.5	1
14) Ethanol	(1)	3.326(-0.000)	45	364669	7.540	7.54		0.5	2
15) Freon123a	(1)			Not Detected				0.2	1
16) Acrolein	(1)	3.581(-0.001)	56	245983	10.616	10.62		1	2
17) 1,1-Dichloroethene	(1)	3.703( 0.000)	61	1806182	10.596	10.60		0.2	1
18) Freon 113	(1)	3.746( 0.000)	103	1020596	9.310	9.31		0.5	2
19) Acetone	(1)	3.812(-0.001)	43	913425	11.288	11.29		0.5	2
20) Methyl Iodide	(1)			Not Detected				0.2	1
21) Carbon Disulfide	(1)	3.983(-0.000)	76	2831637	9.498	9.50		0.5	1
22) Isopropanol	(1)	4.092(-0.001)	45	1334192	9.920	9.92		0.5	2
23) Acetonitrile	(1)			Not Detected				0.5	2
24) 3-Chloropropene	(1)			Not Detected				0.2	1
25) Methylene Chloride	(1)	4.445(-0.000)	84	845282	10.808	10.81		0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected				0.5	1
27) Acrylonitrile	(1)			Not Detected				0.5	2
28) trans-1,2-Dichloroethene	(1)	4.938(-0.000)	61	1728874	9.153	9.15		0.2	1
29) Methyl t-Butyl Ether	(1)	5.029(-0.003)	73	1378948	11.113	11.11		0.2	1
30) Hexane	(1)	5.522(-0.000)	57	1314811	9.971	9.97		0.2	1
31) 1,1-Dichloroethane	(1)	5.711(-0.000)	63	1418208	8.884	8.88		0.2	1
32) Vinyl Acetate	(1)	5.918(-0.001)	86	83322	12.290	12.29		1	1
33) Di-Isopropyl Ether	(1)			Not Detected				0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected				0.2	1
35) cis-1,2-Dichloroethene	(1)	6.806(-0.000)	61	1072049	8.710	8.71		0.2	1
36) 1,2-Dichloroethene (total)	(1)			2800923	17.863	17.86		0.2	1
37) 2-Butanone	(1)	6.909(-0.001)	72	224955	11.279	11.28		0.5	2
38) Ethyl Acetate	(1)	7.098(-0.001)	70	100139	9.650	9.65		0.5	1
39) Methyl Acrylate	(1)			Not Detected				0.2	1
41) Tetrahydrofuran	(1)	7.390(-0.000)	42	653745	11.263	11.26		0.5	1
42) Chloroform	(1)	7.432( 0.000)	83	1382811	9.156	9.16		0.2	1
43) 1,1,1-Trichloroethane	(1)	7.730( 0.000)	97	1228398	9.272	9.27		0.2	1
44) Cyclohexane	(1)	7.834( 0.000)	56	1484376	10.342	10.34		0.2	1



# LCSC75

# Lancaster Laboratories, Inc. Analysis Summary for GC/MS Volatiles in Air LCSC75

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: 04-SEP-2015 12:04  
 Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

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

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting	
									Limit	LOQ
45) Carbon Tetrachloride	(1)	8.047( 0.000)	117	1310746	10.035	10.03			0.2	1
46) Benzene	(2)	8.424(-0.000)	78	1845504	10.290	10.29			0.2	1
47) 1,2-Dichloroethane	(2)	8.454(-0.000)	62	1016929	10.228	10.23			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.081(-0.000)	43	1466679	10.416	10.42			0.5	1
52) Trichloroethene	(2)	9.689( 0.000)	130	626181	8.495	8.49			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.097( 0.000)	63	726608	9.928	9.93			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.480( 0.000)	88	314024	12.707	12.71			0.5	1
57) Methyl Methacrylate	(2)	10.511( 0.000)	69	481043	11.706	11.71			0.2	1
58) Bromodichloromethane	(2)	10.693( 0.000)	83	1456521	10.356	10.36			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.666( 0.000)	75	979708	12.050	12.05			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.098( 0.000)	43	1507932	13.118	13.12			0.5	2
61) Toluene	(3)	12.378(-0.000)	91	1602531	10.717	10.72			0.2	1
62) Octane	(3)			Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)	12.920(-0.000)	75	863275	9.731	9.73			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	1842983	21.781	21.78			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.303(-0.000)	97	599928	9.680	9.68			0.2	1
67) Tetrachloroethene	(3)	13.601(-0.000)	166	596641	8.005	8.00			0.2	1
68) 2-Hexanone	(3)	14.021(-0.000)	43	1662982	12.570	12.57			0.5	2
69) Dibromochloromethane	(3)	14.161( 0.000)	127	818027	9.913	9.91			0.2	1
70) 1,2-Dibromoethane	(3)	14.368(-0.000)	107	909134	10.182	10.18			0.2	1
72) Chlorobenzene	(3)	15.615( 0.000)	112	1213307	10.197	10.20			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.980( 0.000)	91	1747467	11.003	11.00			0.2	1
75) m/p-Xylene	(3)	16.290(-0.000)	91	2800723M	22.048	22.05			0.2	1
76) o-Xylene	(3)	17.263( 0.000)	91	1468461	10.936	10.94			0.2	1
77) Xylene (total)	(3)		91	4269184	32.984	32.98			0.2	1
78) Styrene	(3)	17.306( 0.000)	104	1120239	11.055	11.05			0.2	1
79) Bromoform	(3)	17.659( 0.000)	173	775763	10.697	10.70			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	19.076( 0.000)	83	1400764	10.101	10.10			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.5	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.691( 0.000)	105	1570928	10.011	10.01			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.885( 0.000)	105	1330396	10.049	10.05			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)	20.865(-0.008)	119	55459	0.497	0.50		J	0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.865( 0.000)	105	1339963	9.550	9.55			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.534( 0.000)	146	945073	9.549	9.55			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.826( 0.000)	146	937164	9.290	9.29			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.325( 0.000)	91	1466295	9.922	9.92			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.988( 0.000)	146	865454	9.413	9.41			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	26.012( 0.000)	180	430978	8.303	8.30			0.5	2

M = Compound was manually integrated.

LCSC75

Lancaster Laboratories, Inc.  
 Analysis Summary for GC/MS Volatiles in Air LCSC75

Data file: /chem/HP09464.i/15sep03.b/ci00098.d Injection date and time: 04-SEP-2015 12:04  
 Data file Sample Info. Line: LCSC75;250;C1524630AA;LCSC75;0;3;LCS; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

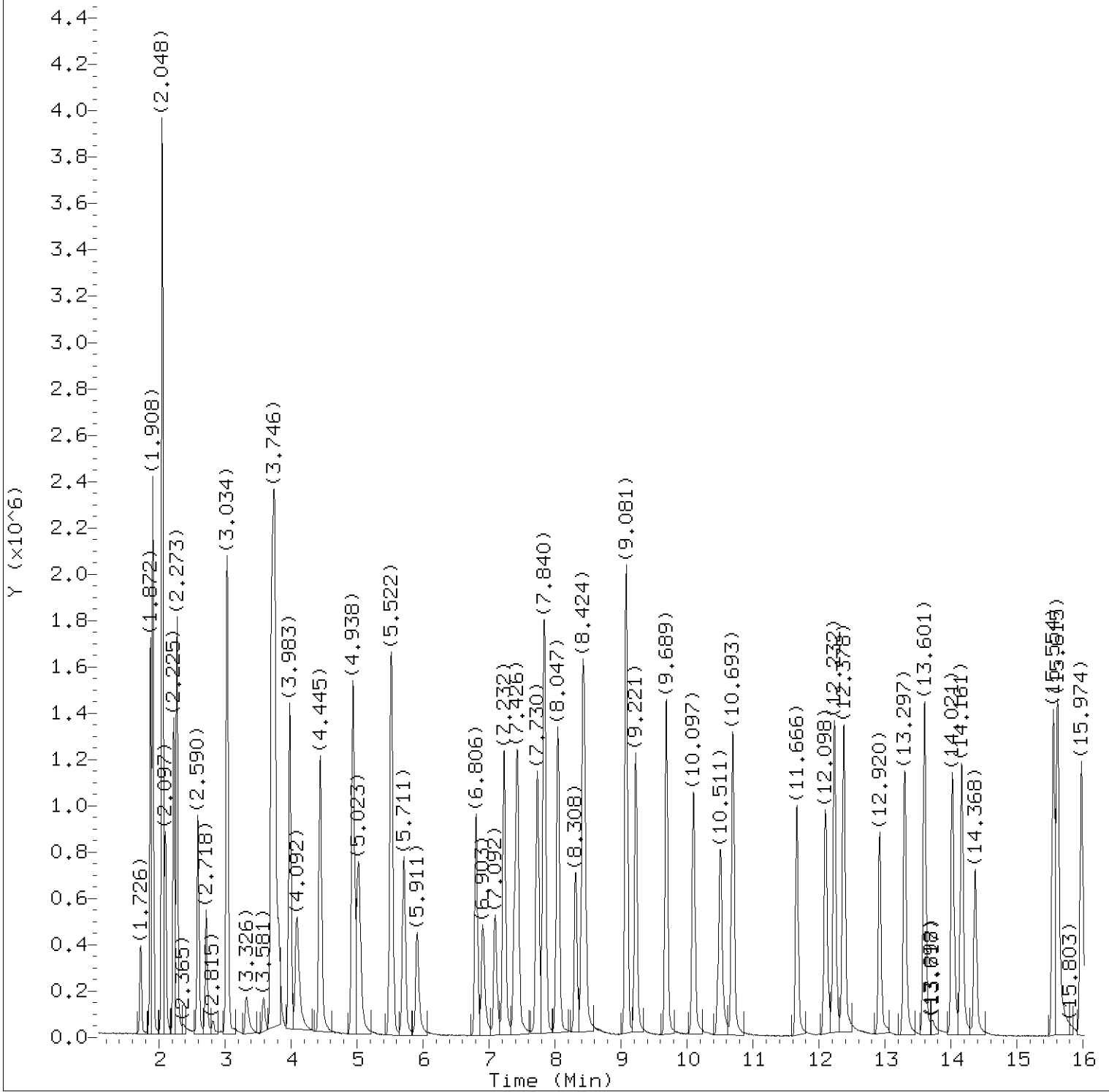
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
 Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.291( 0.000)	225	400161	8.328	8.33			0.4	2
102) Naphthalene	(3)	26.310( 0.000)	128	1327504	9.731	9.73			0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d  
Injection date and time: 04-SEP-2015 12:04

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

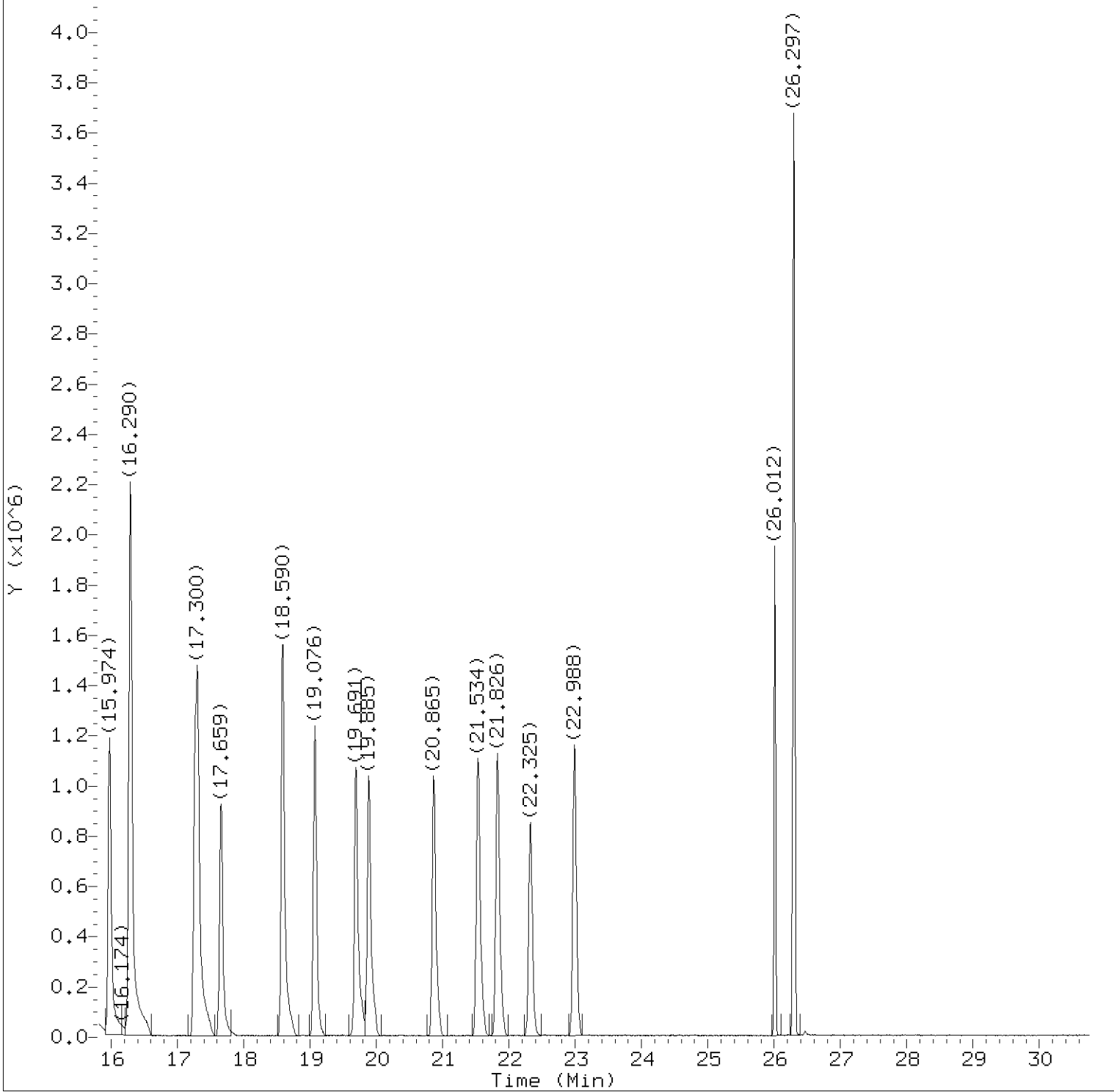
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75

Lab Sample ID: LCSC75

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d  
Injection date and time: 04-SEP-2015 12:04

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75

Lab Sample ID: LCSC75

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445

## Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d  
Injection date and time: 04-SEP-2015 12:04Instrument ID: HP09464.i  
Analyst ID: jeb07445Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75

Lab Sample ID: LCSC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	906721	10.151
2) Dichlorodifluoromethane	(1)	1.908	85	2232591	9.587
4) Freon 114	(1)	2.048	85	2128361	10.003
5) Chloromethane	(1)	2.097	52	346043	8.553
6) Vinyl Chloride	(1)	2.225	62	1118090	10.201
7) 1,3-Butadiene	(1)	2.273	54	884677	9.605
8) Bromomethane	(1)	2.590	94	756488	9.188
9) Chloroethane	(1)	2.718	64	592712	8.875
12) Trichlorofluoromethane	(1)	3.034	101	2210136	9.582
14) Ethanol	(1)	3.326	45	364669	7.540
16) Acrolein	(1)	3.581	56	245983	10.616
17) 1,1-Dichloroethene	(1)	3.703	61	1806182	10.596
18) Freon 113	(1)	3.746	103	1020596	9.310
19) Acetone	(1)	3.813	43	913425	11.288
21) Carbon Disulfide	(1)	3.983	76	2831637	9.498
22) Isopropanol	(1)	4.092	45	1334192	9.920
25) Methylene Chloride	(1)	4.445	84	845282	10.808
28) trans-1,2-Dichloroethene	(1)	4.938	61	1728874	9.153
29) Methyl t-Butyl Ether	(1)	5.029	73	1378948	11.113
30) Hexane	(1)	5.522	57	1314811	9.971
31) 1,1-Dichloroethane	(1)	5.711	63	1418208	8.884
32) Vinyl Acetate	(1)	5.918	86	83322	12.290
36) 1,2-Dichloroethene (total)	(1)		61	2800923	17.863
35) cis-1,2-Dichloroethene	(1)	6.806	61	1072049	8.710
37) 2-Butanone	(1)	6.909	72	224955	11.279
38) Ethyl Acetate	(1)	7.098	70	100139	9.650
40)*Bromochloromethane	(1)	7.232	130	478092	10.000
41) Tetrahydrofuran	(1)	7.390	42	653745	11.263
42) Chloroform	(1)	7.432	83	1382811	9.156
43) 1,1,1-Trichloroethane	(1)	7.730	97	1228398	9.272
44) Cyclohexane	(1)	7.834	56	1484376	10.342
45) Carbon Tetrachloride	(1)	8.047	117	1310746	10.035
46) Benzene	(2)	8.424	78	1845504	10.290
47) 1,2-Dichloroethane	(2)	8.454	62	1016929	10.228
50) Heptane	(2)	9.081	43	1466679	10.416
51)*1,4-Difluorobenzene	(2)	9.221	114	1262882	10.000
52) Trichloroethene	(2)	9.689	130	626181	8.495
54) 1,2-Dichloropropane	(2)	10.097	63	726608	9.928

\* = Compound is an internal standard.

page 1 of 2

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445

SSX23 Page 645 of 1243

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00098.d  
 Injection date and time: 04-SEP-2015 12:04

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
 Calibration date and time: 09-SEP-2015 14:32  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sublist used: all

Sample Name: LCSC75

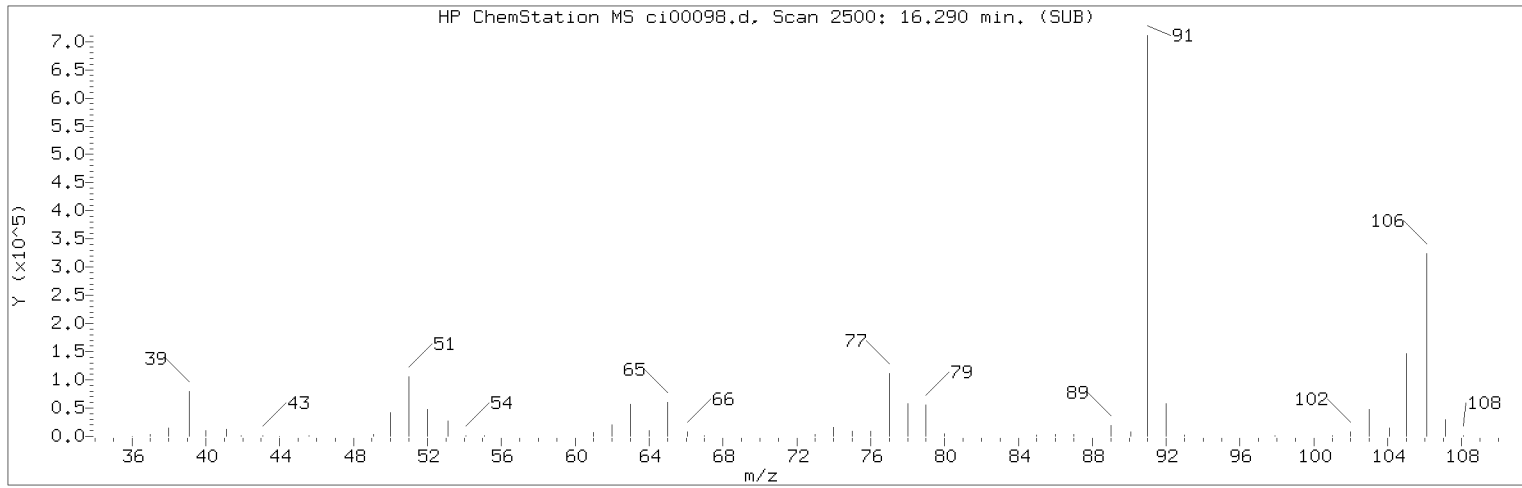
Lab Sample ID: LCSC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
56) 1,4-Dioxane	(2)	10.480	88	314024	12.707
57) Methyl Methacrylate	(2)	10.511	69	481043	11.706
58) Bromodichloromethane	(2)	10.693	83	1456521	10.356
59) cis-1,3-Dichloropropene	(2)	11.666	75	979708	12.050
60) 4-Methyl-2-Pentanone	(2)	12.098	43	1507932	13.118
61) Toluene	(3)	12.378	91	1602531	10.717
64) 1,3-Dichloropropene (total)	(3)		75	1842983	21.781
63) trans-1,3-Dichloropropene	(3)	12.920	75	863275	9.731
66) 1,1,2-Trichloroethane	(3)	13.303	97	599928	9.680
67) Tetrachloroethene	(3)	13.601	166	596641	8.005
68) 2-Hexanone	(3)	14.021	43	1662982	12.570
69) Dibromochloromethane	(3)	14.161	127	818027	9.913
70) 1,2-Dibromoethane	(3)	14.368	107	909134	10.182
71)*Chlorobenzene-d5	(3)	15.554	117	1308224	10.000
72) Chlorobenzene	(3)	15.615	112	1213307	10.197
74) Ethylbenzene	(3)	15.980	91	1747467	11.003
75) m/p-Xylene	(3)	16.290	91	2800723M	22.048
77) Xylene (total)	(3)		91	4269184	32.984
76) o-Xylene	(3)	17.263	91	1468461	10.936
78) Styrene	(3)	17.306	104	1120239	11.055
79) Bromoform	(3)	17.659	173	775763	10.697
82) 1,1,2,2-Tetrachloroethane	(3)	19.076	83	1400764	10.101
86) 4-Ethyltoluene	(3)	19.691	105	1570928	10.011
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1330396	10.049
89) tert-Butylbenzene	(3)	20.865	119	55459	0.497
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1339963	9.550
92) 1,3-Dichlorobenzene	(3)	21.534	146	945073	9.549
93) 1,4-Dichlorobenzene	(3)	21.826	146	937164	9.290
95) Benzyl Chloride	(3)	22.325	91	1466295	9.922
96) 1,2-Dichlorobenzene	(3)	22.988	146	865454	9.413
100) 1,2,4-Trichlorobenzene	(3)	26.012	180	430978	8.303
101) Hexachlorobutadiene	(3)	26.291	225	400161	8.328
102) Naphthalene	(3)	26.310	128	1327504	9.731

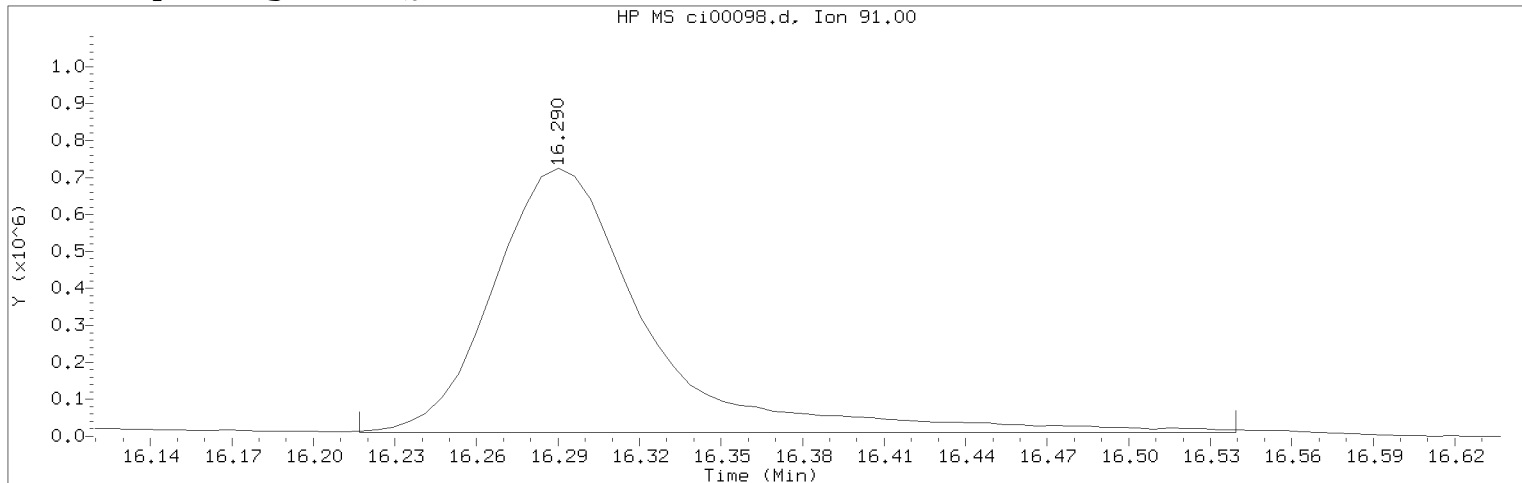
M = Compound was manually integrated.

\* = Compound is an internal standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00098.d Instrument ID: HP09464.i  
Injection date and time: 04-SEP-2015 12:04 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m Sublist used: all  
Calibration date and time: 09-SEP-2015 14:32  
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSC75 Lab Sample ID: LCSC75

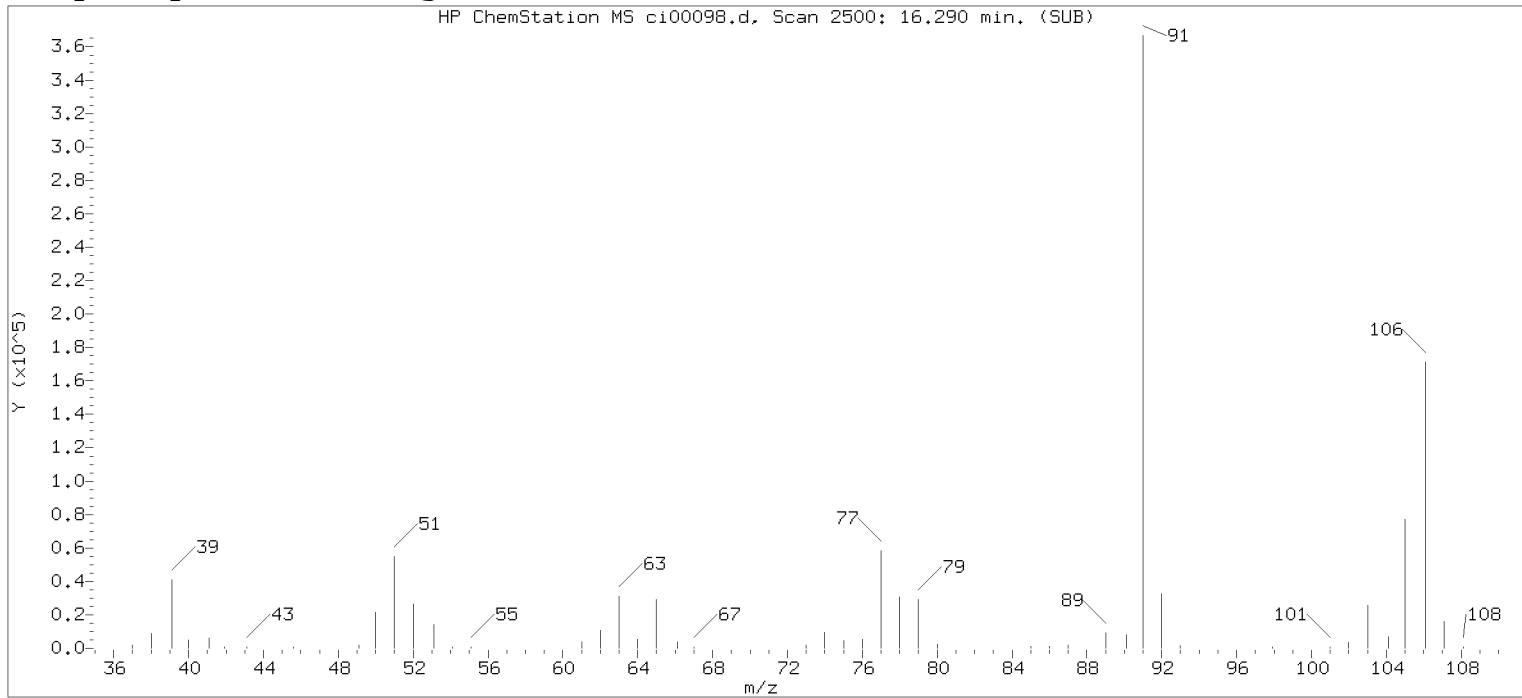
Compound Number : 75  
Compound Name : m/p-Xylene  
Scan Number : 2500  
Retention Time (minutes): 16.290  
Quant Ion : 91.00  
Area (flag) : 2800723M  
Concentration (ppb(v)) : 22.0481  
Integration start scan : 2487 Integration stop scan: 2540  
Y at integration start : 11188 Y at integration end: 11188

Reason for manual integration: improper integration

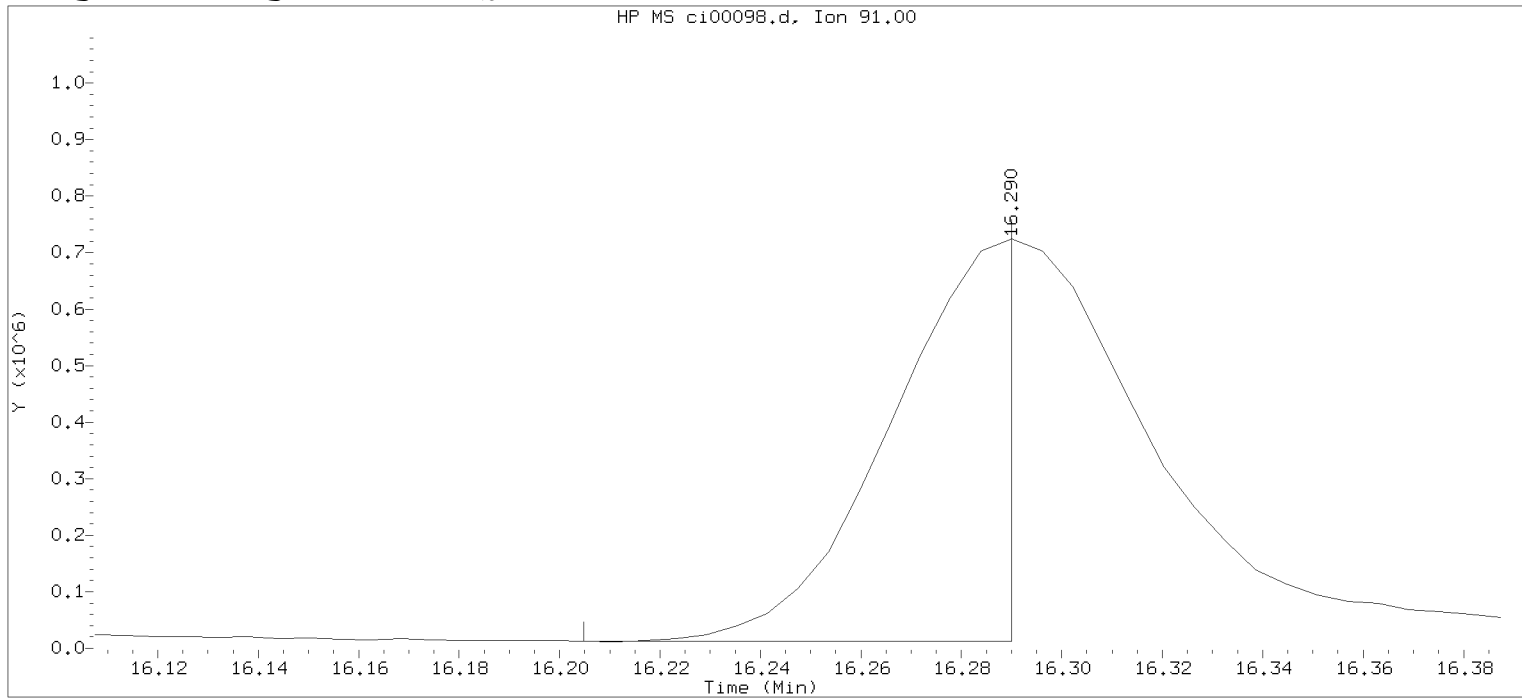
Analyst responsible for change: Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.  
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08.  
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep03.b/ci00098.d      Instrument ID: HP09464.i  
 Injection date and time: 04-SEP-2015 12:04      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m      Sublist used: all  
 Calibration date and time: 04-SEP-2015 12:09  
 Date, time and analyst ID of latest file update: 04-Sep-2015 12:43 Automation

Sample Name: LCSC75      Lab Sample ID: LCSC75

Compound Number : 75  
 Compound Name : m/p-Xylene  
 Scan Number : 2500  
 Retention Time (minutes): 16.290  
 Quant Ion : 91.00  
 Area : 1149481  
 Concentration (ppb(v)) : 9.0490  
 Integration start scan : 2485      Integration stop scan: 2499  
 Y at integration start : 12142      Y at integration end: 12142



LCSDC75

Lancaster Laboratories, Inc.  
 Analysis Summary for GC/MS Volatiles in Air LCSDC75

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: 04-SEP-2015 13:46  
 Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSDC; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

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

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.231( 0.000)	1011	130	582185 ( -8)	10.00		377640 - 881158
51) 1,4-Difluorobenzene	9.227(-0.006)	1339	114	1521207 ( -6)	10.00		971337 - 2266453
71) Chlorobenzene-d5	15.548( 0.006)	2378	117	1400700 ( -7)	10.00		908333 - 2119441

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.872( 0.000)	41	1005798	9.247	9.25		0.5	1
2) Dichlorodifluoromethane	(1)	1.908( 0.000)	85	2378299	8.387	8.39		0.2	1
3) Chlorodifluoromethane	(1)			Not Detected				0.2	1
4) Freon 114	(1)	2.048( 0.000)	85	2274420	8.778	8.78		0.2	1
5) Chloromethane	(1)	2.097( 0.000)	52	379590	7.705	7.70		0.2	1
6) Vinyl Chloride	(1)	2.224( 0.000)	62	1222508	9.159	9.16		0.2	1
7) 1,3-Butadiene	(1)	2.273( 0.000)	54	971731	8.664	8.66		0.4	2
8) Bromomethane	(1)	2.590( 0.000)	94	805629	8.036	8.04		0.2	1
9) Chloroethane	(1)	2.717( 0.000)	64	642735	7.903	7.90		0.2	1
10) Bromoethene	(1)			Not Detected				0.4	2
11) Dichlorofluoromethane	(1)			Not Detected				0.2	1
12) Trichlorofluoromethane	(1)	3.034( 0.000)	101	2320865	8.263	8.26		0.2	1
13) Pentane	(1)			Not Detected				0.5	1
14) Ethanol	(1)	3.326(-0.000)	45	391470	6.647	6.65		0.5	2
15) Freon123a	(1)			Not Detected				0.2	1
16) Acrolein	(1)	3.581(-0.001)	56	271845	9.634	9.63		1	2
17) 1,1-Dichloroethene	(1)	3.709( 0.000)	61	1941850	9.355	9.36		0.2	1
18) Freon 113	(1)	3.751( 0.000)	103	1096744	8.216	8.22		0.5	2
19) Acetone	(1)	3.812(-0.001)	43	968194	9.826	9.83		0.5	2
20) Methyl Iodide	(1)			Not Detected				0.2	1
21) Carbon Disulfide	(1)	3.983( 0.000)	76	3047187	8.393	8.39		0.5	1
22) Isopropanol	(1)	4.092(-0.001)	45	1408275	8.599	8.60		0.5	2
23) Acetonitrile	(1)			Not Detected				0.5	2
24) 3-Chloropropene	(1)			Not Detected				0.2	1
25) Methylene Chloride	(1)	4.445( 0.000)	84	897779	9.426	9.43		0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected				0.5	1
27) Acrylonitrile	(1)			Not Detected				0.5	2
28) trans-1,2-Dichloroethene	(1)	4.938( 0.000)	61	1831225	7.961	7.96		0.2	1
29) Methyl t-Butyl Ether	(1)	5.023(-0.002)	73	1497791	9.913	9.91		0.2	1
30) Hexane	(1)	5.522( 0.000)	57	1448157	9.018	9.02		0.2	1
31) 1,1-Dichloroethane	(1)	5.710( 0.000)	63	1569000	8.072	8.07		0.2	1
32) Vinyl Acetate	(1)	5.911(-0.000)	86	94674	11.468	11.47		1	1
33) Di-Isopropyl Ether	(1)			Not Detected				0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected				0.2	1
35) cis-1,2-Dichloroethene	(1)	6.805( 0.000)	61	1156288	7.715	7.72		0.2	1
36) 1,2-Dichloroethene (total)	(1)			2987513	15.676	15.68		0.2	1
37) 2-Butanone	(1)	6.909(-0.001)	72	244250	10.057	10.06		0.5	2
38) Ethyl Acetate	(1)	7.097(-0.001)	70	111537	8.827	8.83		0.5	1
39) Methyl Acrylate	(1)			Not Detected				0.2	1
41) Tetrahydrofuran	(1)	7.389(-0.000)	42	732749	10.367	10.37		0.5	1
42) Chloroform	(1)	7.432(-0.000)	83	1480764	8.051	8.05		0.2	1
43) 1,1,1-Trichloroethane	(1)	7.736( 0.000)	97	1320533	8.185	8.19		0.2	1
44) Cyclohexane	(1)	7.834( 0.000)	56	1608896	9.206	9.21		0.2	1

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: 04-SEP-2015 13:46  
 Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSD; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

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

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting	
									Limit	LOQ
45) Carbon Tetrachloride	(1)	8.040( 0.000)	117	1372511	8.629	8.63			0.2	1
46) Benzene	(2)	8.424( 0.000)	78	2052969	9.502	9.50			0.2	1
47) 1,2-Dichloroethane	(2)	8.454( 0.000)	62	1114085	9.303	9.30			0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.081( 0.000)	43	1602503	9.448	9.45			0.5	1
52) Trichloroethene	(2)	9.689( 0.000)	130	674143	7.592	7.59			0.2	1
53) Ethyl Acrylate	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)	10.097( 0.001)	63	802508	9.103	9.10			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
56) 1,4-Dioxane	(2)	10.474( 0.001)	88	335445	11.269	11.27			0.5	1
57) Methyl Methacrylate	(2)	10.510( 0.000)	69	518455	10.474	10.47			0.2	1
58) Bromodichloromethane	(2)	10.693( 0.000)	83	1530439	9.034	9.03			0.2	1
59) cis-1,3-Dichloropropene	(2)	11.666( 0.000)	75	1108369	11.318	11.32			0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.098( 0.000)	43	1592795	11.503	11.50			0.5	2
61) Toluene	(3)	12.378(-0.000)	91	1778960	11.112	11.11			0.2	1
62) Octane	(3)			Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)	12.919(-0.000)	75	941587	9.913	9.91			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	2049956	21.231	21.23			0.2	1
65) Ethyl Methacrylate	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)	13.303(-0.000)	97	655491	9.878	9.88			0.2	1
67) Tetrachloroethene	(3)	13.601(-0.000)	166	642118	8.046	8.05			0.2	1
68) 2-Hexanone	(3)	14.020(-0.000)	43	1763408	12.449	12.45			0.5	2
69) Dibromochloromethane	(3)	14.160( 0.000)	127	868127	9.826	9.83			0.2	1
70) 1,2-Dibromoethane	(3)	14.367(-0.000)	107	981721	10.269	10.27			0.2	1
72) Chlorobenzene	(3)	15.614(-0.000)	112	1305764	10.249	10.25			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.973(-0.000)	91	1924890	11.320	11.32			0.2	1
75) m/p-Xylene	(3)	16.290(-0.000)	91	2899969	21.322	21.32			0.2	1
76) o-Xylene	(3)	17.263(-0.000)	91	1579213	10.984	10.98			0.2	1
77) Xylene (total)	(3)		91	4479182	32.307	32.31			0.2	1
78) Styrene	(3)	17.306(-0.000)	104	1199763	11.058	11.06			0.2	1
79) Bromoform	(3)	17.658(-0.000)	173	816598	10.517	10.52			0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	19.070(-0.000)	83	1504989	10.136	10.14			0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
84) n-Propylbenzene	(3)			Not Detected					0.5	1
85) 2-Chlorotoluene	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.696(-0.000)	105	1730247	10.298	10.30			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.885(-0.000)	105	1368116	9.651	9.65			0.2	1
88) Alpha Methyl Styrene	(3)			Not Detected					0.2	1
89) tert-Butylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.864(-0.000)	105	1448223	9.640	9.64			0.2	1
91) sec-Butylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)	21.534(-0.000)	146	1031771	9.737	9.74			0.2	1
93) 1,4-Dichlorobenzene	(3)	21.826(-0.000)	146	1021926	9.462	9.46			0.2	1
94) p-Isopropyltoluene	(3)			Not Detected					0.2	1
95) Benzyl Chloride	(3)	22.325(-0.000)	91	1583333	10.007	10.01			0.5	1
96) 1,2-Dichlorobenzene	(3)	22.988(-0.000)	146	931050	9.458	9.46			0.2	1
97) n-Butylbenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1
99) 1,2-Dibromo-3-chloropropane	(3)			Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)	26.011(-0.000)	180	439723	7.913	7.91			0.5	2

Data file: /chem/HP09464.i/15sep03.b/ci00100.d Injection date and time: 04-SEP-2015 13:46  
 Data file Sample Info. Line: LCSDC75;250;C1524630AA;LCSDC75;0;3;LCSD; Instrument ID: HP09464.i Batch: C1524630AA  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

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

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

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

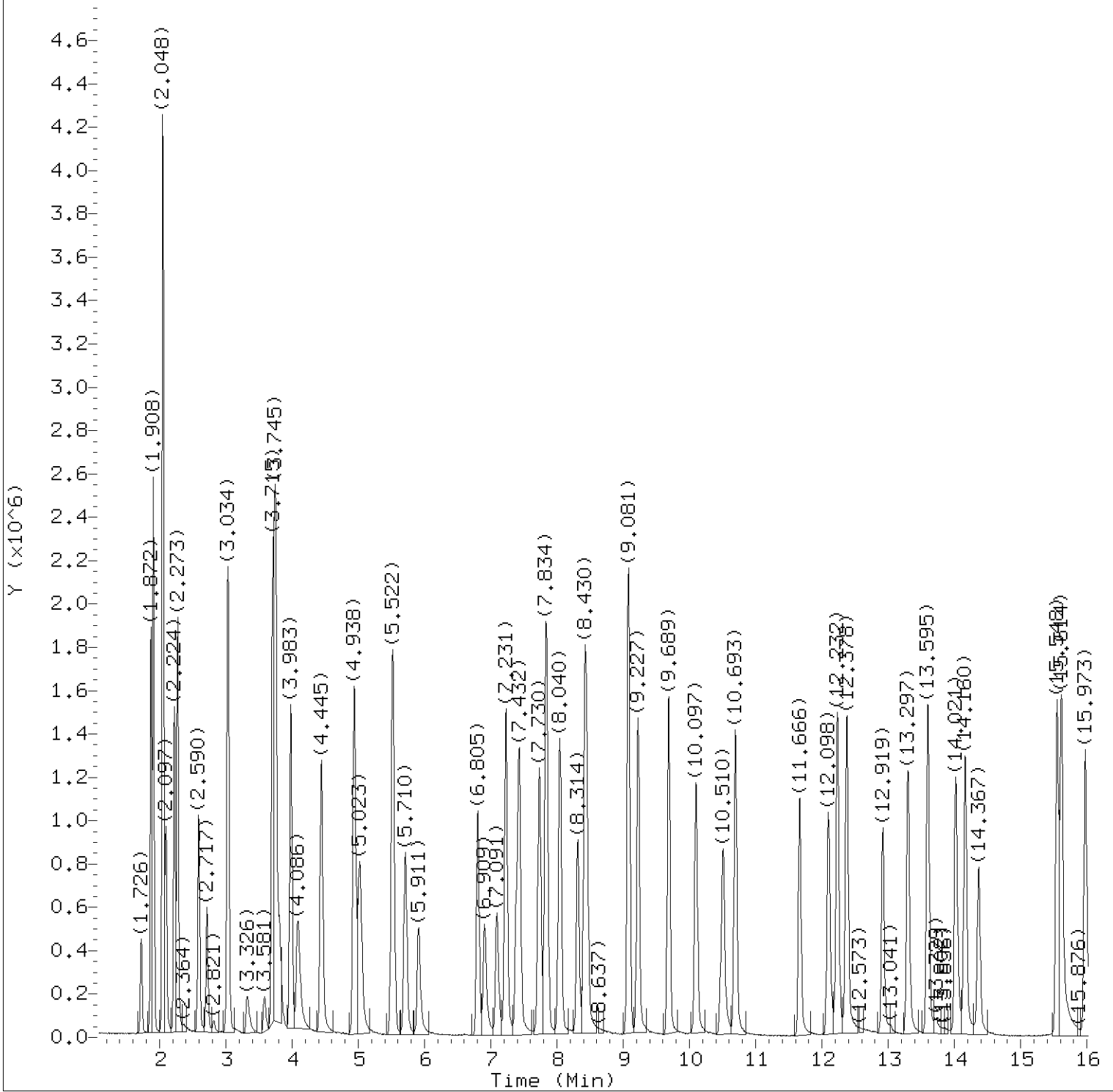
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
 Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	26.291(-0.000)	225	412184	8.012	8.01			0.4	2
102) Naphthalene	(3)	26.309(-0.000)	128	1380288	9.450	9.45			0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 16:01. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 09/16/2015 at 08:08. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d  
Injection date and time: 04-SEP-2015 13:46

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

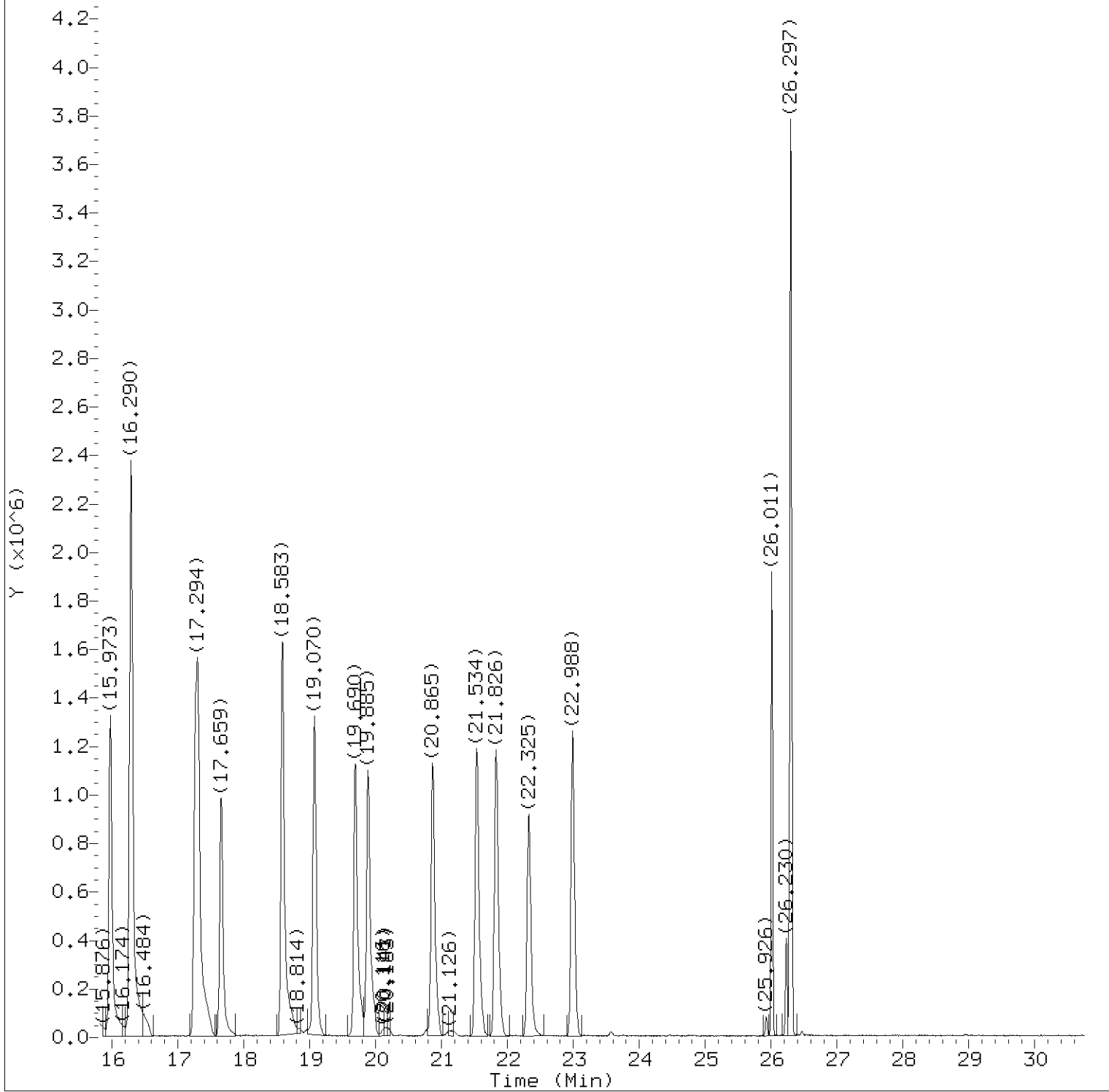
Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75

Lab Sample ID: LCSDC75

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d  
Injection date and time: 04-SEP-2015 13:46

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
Calibration date and time: 09-SEP-2015 14:32

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sample Name: LCSDC75

Lab Sample ID: LCSDC75

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d  
 Injection date and time: 04-SEP-2015 13:46

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
 Calibration date and time: 09-SEP-2015 14:32  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sublist used: all

Sample Name: LCSDC75

Lab Sample ID: LCSDC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	1005798	9.247
2) Dichlorodifluoromethane	(1)	1.908	85	2378299	8.387
4) Freon 114	(1)	2.048	85	2274420	8.778
5) Chloromethane	(1)	2.097	52	379590	7.705
6) Vinyl Chloride	(1)	2.224	62	1222508	9.159
7) 1,3-Butadiene	(1)	2.273	54	971731	8.664
8) Bromomethane	(1)	2.590	94	805629	8.036
9) Chloroethane	(1)	2.717	64	642735	7.903
12) Trichlorofluoromethane	(1)	3.034	101	2320865	8.263
14) Ethanol	(1)	3.326	45	391470	6.647
16) Acrolein	(1)	3.581	56	271845	9.634
17) 1,1-Dichloroethene	(1)	3.709	61	1941850	9.355
18) Freon 113	(1)	3.751	103	1096744	8.216
19) Acetone	(1)	3.812	43	968194	9.826
21) Carbon Disulfide	(1)	3.983	76	3047187	8.393
22) Isopropanol	(1)	4.092	45	1408275	8.599
25) Methylene Chloride	(1)	4.445	84	897779	9.426
28) trans-1,2-Dichloroethene	(1)	4.938	61	1831225	7.961
29) Methyl t-Butyl Ether	(1)	5.023	73	1497791	9.913
30) Hexane	(1)	5.522	57	1448157	9.018
31) 1,1-Dichloroethane	(1)	5.710	63	1569000	8.072
32) Vinyl Acetate	(1)	5.911	86	94674	11.468
36) 1,2-Dichloroethene (total)	(1)		61	2987513	15.676
35) cis-1,2-Dichloroethene	(1)	6.805	61	1156288	7.715
37) 2-Butanone	(1)	6.909	72	244250	10.057
38) Ethyl Acetate	(1)	7.097	70	111537	8.827
40)*Bromochloromethane	(1)	7.231	130	582185	10.000
41) Tetrahydrofuran	(1)	7.389	42	732749	10.367
42) Chloroform	(1)	7.432	83	1480764	8.051
43) 1,1,1-Trichloroethane	(1)	7.736	97	1320533	8.185
44) Cyclohexane	(1)	7.834	56	1608896	9.206
45) Carbon Tetrachloride	(1)	8.040	117	1372511	8.629
46) Benzene	(2)	8.424	78	2052969	9.502
47) 1,2-Dichloroethane	(2)	8.454	62	1114085	9.303
50) Heptane	(2)	9.081	43	1602503	9.448
51)*1,4-Difluorobenzene	(2)	9.227	114	1521207	10.000
52) Trichloroethene	(2)	9.689	130	674143	7.592
54) 1,2-Dichloropropane	(2)	10.097	63	802508	9.103

\* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey  
 on 09/10/2015 at 16:01.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep03.b/ci00100.d  
 Injection date and time: 04-SEP-2015 13:46

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep03.b/to-15.m  
 Calibration date and time: 09-SEP-2015 14:32  
 Date, time and analyst ID of latest file update: 10-Sep-2015 15:58 jeb07445

Sublist used: all

Sample Name: LCSDC75

Lab Sample ID: LCSDC75

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
56) 1,4-Dioxane	(2)	10.474	88	335445	11.269
57) Methyl Methacrylate	(2)	10.510	69	518455	10.474
58) Bromodichloromethane	(2)	10.693	83	1530439	9.034
59) cis-1,3-Dichloropropene	(2)	11.666	75	1108369	11.318
60) 4-Methyl-2-Pentanone	(2)	12.098	43	1592795	11.503
61) Toluene	(3)	12.378	91	1778960	11.112
64) 1,3-Dichloropropene (total)	(3)		75	2049956	21.231
63) trans-1,3-Dichloropropene	(3)	12.919	75	941587	9.913
66) 1,1,2-Trichloroethane	(3)	13.303	97	655491	9.878
67) Tetrachloroethene	(3)	13.601	166	642118	8.046
68) 2-Hexanone	(3)	14.021	43	1763408	12.449
69) Dibromochloromethane	(3)	14.160	127	868127	9.826
70) 1,2-Dibromoethane	(3)	14.367	107	981721	10.269
71)*Chlorobenzene-d5	(3)	15.548	117	1400700	10.000
72) Chlorobenzene	(3)	15.614	112	1305764	10.249
74) Ethylbenzene	(3)	15.973	91	1924890	11.320
75) m/p-Xylene	(3)	16.290	91	2899969	21.322
77) Xylene (total)	(3)		91	4479182	32.307
76) o-Xylene	(3)	17.263	91	1579213	10.984
78) Styrene	(3)	17.306	104	1199763	11.058
79) Bromoform	(3)	17.659	173	816598	10.517
82) 1,1,2,2-Tetrachloroethane	(3)	19.070	83	1504989	10.136
86) 4-Ethyltoluene	(3)	19.697	105	1730247	10.298
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1368116	9.651
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1448223	9.640
92) 1,3-Dichlorobenzene	(3)	21.534	146	1031771	9.737
93) 1,4-Dichlorobenzene	(3)	21.826	146	1021926	9.462
95) Benzyl Chloride	(3)	22.325	91	1583333	10.007
96) 1,2-Dichlorobenzene	(3)	22.988	146	931050	9.458
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	439723	7.913
101) Hexachlorobutadiene	(3)	26.291	225	412184	8.012
102) Naphthalene	(3)	26.309	128	1380288	9.450

\* = Compound is an internal standard.

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

Data Directory Path is - C:\msdchem\1\data\15sep09\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jbs01304	CI00160.D	5ONGBFB	09/09/2015	12:51		
jbs01304	CI00161.D	VSTD010	09/09/2015	13:23		
eb07445	CI00162.D	VSTD010	09/09/2015	14:29		
eb07445	CI00163.D	VBLKC77	09/09/2015	15:31	C1525230AA	
eb07445	CI00164.D	VSTD010	09/09/2015	16:15		
eb07445	CI00165.D	VBLKC77	09/09/2015	17:05	C1524630AC	
eb07445	CI00166.D	VBLKC77	09/09/2015	17:51	C1524630AC	
eb07445	CI00167.D	VBLKC77	09/09/2015	18:43	C1524630AC	
eb07445	CI00168.D	cc801	09/09/2015	19:36	C1524630AC	
eb07445	CI00169.D	cc1113	09/09/2015	20:30	C1524630AC	
eb07445	CI00170.D	cc1136	09/09/2015	21:17	C1524630AC	
eb07445	CI00171.D	mdlv0.2	09/09/2015	22:23	C1524630AC	
eb07445	CI00172.D	cc1113	09/09/2015	23:07	C1524630AC	
eb07445	CI00173.D	cc1032	09/09/2015	23:53	C1524630AC	
eb07445	CI00174.D	cc507	09/10/2015	00:38	C1524630AC	
eb07445	CI00175.D	cc985	09/10/2015	01:23	C1524630AC	
eb07445	CI00176.D	cc1058	09/10/2015	02:08	C1524630AC	
eb07445	CI00177.D	cc1144	09/10/2015	02:54	C1524630AC	
eb07445	CI00178.D	cc1167	09/10/2015	03:38	C1524630AC	
eb07445	CI00179.D	cc1165	09/10/2015	04:25	C1524630AC	
eb07445	CI00180.D	cc1019	09/10/2015	05:09	C1524630AC	
eb07445	CI00181.D	cc1011	09/10/2015	05:55	C1524630AC	
eb07445	CI00182.D	cc912	09/10/2015	06:39	C1524630AC	
eb07445	CI00183.D	fc1	09/10/2015	09:26	C1524630AC	
eb07445	CI00184.D	fc2	09/10/2015	10:10	C1524630AC	
eb07445	CI00185.D	fc3	09/10/2015	10:54	C1524630AC	
eb07445	CI00186.D	fc4	09/10/2015	11:42	C1524630AC	



SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

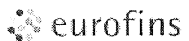
Concentration Units: ppb(v)

Limit: MDL

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

Abbreviations:

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



SDG No.:

Sample Media: N/A Lab Sample ID: VBLKC77  
 Canister ID: N/A Lab File ID: ci00167.d  
 Pressure Received: 14.7 psia Date Collected:  
 Final Pressure: 14.7 psia Date Received:  
 Nominal Volume: 250 cc Analyzed Date: 09/09/2015  
 Injection Volume: 250 cc Analyzed Time: 18:43  
 Instrument ID: 09464 Dilution Factor: 1

Concentration Units: ppb(v)

Limit: MDL

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

Abbreviations:

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- D = Analysis of diluted sample.
- J = The result is between the MDL and LOQ.



Lancaster Laboratories  
Environmental

FORM 01  
VOLATILE ORGANICS IN AIR  
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v)

Limit: MDL

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

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- D = Analysis of diluted sample.
- J = The result is between the MDL and LOQ.

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v)

Limit: MDL

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

Abbreviations:

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



Lancaster Laboratories  
Environmental

FORM 01  
VOLATILE ORGANICS IN AIR  
SAMPLE DATA SHEET

SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC77
Canister ID:	N/A	Lab File ID:	ci00167.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	09/09/2015
Injection Volume:	250 cc	Analyzed Time:	18:43
Instrument ID:	09464	Dilution Factor:	1

Concentration Units: ppb(v)

Limit: MDL

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

Abbreviations:

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



Lancaster Laboratories  
Environmental

FORM 04  
VOLATILE ORGANICS IN AIR  
METHOD BLANK SUMMARY

SDG No.:

Lab Sample ID: VBLKC77

Analyzed Date: 09/09/2015

Lab File ID: ci00167.d

Analyzed Time: 18:43

Instrument ID: 09464

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

LAB SAMPLE ID	LAB FILE ID	CANISTER ID	DATE ANALYZED	TIME ANALYZED
cc801	ci00168.d	801	09/09/2015	19:36
cc1136	ci00170.d	1136	09/09/2015	21:17
cc1032	ci00173.d	1032	09/09/2015	23:53
cc507	ci00174.d	507	09/10/2015	00:38
cc985	ci00175.d	985	09/10/2015	01:23
cc1058	ci00176.d	1058	09/10/2015	02:08
cc1144	ci00177.d	1144	09/10/2015	02:54
cc1167	ci00178.d	1167	09/10/2015	03:38
cc1165	ci00179.d	1165	09/10/2015	04:25
cc1019	ci00180.d	1019	09/10/2015	05:09
cc1011	ci00181.d	1011	09/10/2015	05:55
cc912	ci00182.d	912	09/10/2015	06:39

COMMENTS:

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Lancaster Laboratories  
Environmental

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

SDG No.:

Lab File ID: ci00160.d

BFB Injection Date: 09/09/2015

Instrument ID: 09464

BFB Injection Time: 12:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	19.8
75	30.0% - 66.0% of mass 95	52.2
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	7.3
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	59.4
175	4.0% - 9.0% of mass 174	4.3 (7.3)
176	93.0% - 101.0% of mass 174	56.5 (95.1)
177	5.0% - 9.0% of mass 176	3.8 (6.7)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	ci00164.d	09/09/2015	16:15
VBLKC77	ci00167.d	09/09/2015	18:43
cc801	ci00168.d	09/09/2015	19:36
cc1136	ci00170.d	09/09/2015	21:17
cc1032	ci00173.d	09/09/2015	23:53
cc507	ci00174.d	09/10/2015	00:38
cc985	ci00175.d	09/10/2015	01:23
cc1058	ci00176.d	09/10/2015	02:08
cc1144	ci00177.d	09/10/2015	02:54
cc1167	ci00178.d	09/10/2015	03:38
cc1165	ci00179.d	09/10/2015	04:25
cc1019	ci00180.d	09/10/2015	05:09
cc1011	ci00181.d	09/10/2015	05:55
cc912	ci00182.d	09/10/2015	06:39

SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	1.868	1.612	8.799	10.2	-14
Dichlorodifluoromethane	4.871	4.087	8.476	10.1	-16
Chlorodifluoromethane	3.881	3.034	8.365	10.7	-22
Freon 114	4.450	3.852	8.914	10.3	-13
Chloromethane	0.846	0.728	8.856	10.3	-14
Vinyl Chloride	2.293	2.107	9.283	10.1	-8
1,3-Butadiene	1.927	1.664	8.812	10.2	-14
Bromomethane	1.722	1.519	8.643	9.8	-12
Chloroethane	1.397	1.168	8.108	9.7	-16
Bromoethene	1.441	1.385	10.185	10.6	-4
Dichlorofluoromethane	4.960	3.948	8.358	10.5	-20
Trichlorofluoromethane	4.824	3.902	8.169	10.1	-19
Pentane	4.557	3.508	8.081	10.5	-23
Ethanol	1.012	0.907	5.201	5.8	-10
Freon123a	4.065	3.206	8.675	11	-21
Acrolein	0.485	0.464	7.175	7.5	-4
1,1-Dichloroethene	3.565	3.146	8.824	10	-12
Freon 113	2.293	1.915	8.100	9.7	-16
Acetone	1.693	1.486	9.397	10.7	-12
Methyl Iodide	2.945	2.676	9.541	10.5	-9
Carbon Disulfide	6.236	5.422	8.695	10	-13
Isopropanol	2.813	2.380	8.122	9.6	-15
Acetonitrile	0.512	0.399	7.707	9.9	-22
3-Chloropropene	0.950	0.800	9.258	11	-16
Methylene Chloride	1.636	1.433	9.633	11	-12
tert-Butyl Alcohol	2.757	2.531	10.096	11	-8
Acrylonitrile	1.265	1.083	8.474	9.9	-14
trans-1,2-Dichloroethene	3.951	3.012	7.623	10	-24
Methyl t-Butyl Ether	2.595	2.706	10.634	10.2	4
Hexane	2.758	2.501	9.247	10.2	-9
1,1-Dichloroethane	3.339	2.872	8.602	10	-14
Vinyl Acetate	0.142	0.173	9.255	7.6	22
Di-Isopropyl Ether	3.102	3.327	11.153	10.4	7
Ethyl Tert-Butyl Ether	2.253	2.533	11.358	10.1	12
cis-1,2-Dichloroethene	2.574	2.138	8.721	10.5	-17
2-Butanone	0.417	0.436	10.873	10.4	5
Ethyl Acetate	0.217	0.234	11.851	11	8
Methyl Acrylate	1.642	1.669	10.569	10.4	2
Tetrahydrofuran	1.214	1.215	10.009	10	0

\* Maximum %DRIFT = 30%.

# Average RRF for all compounds must be greater than 0.010.



SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	3.159	2.714	8.678	10.1	-14
1,1,1-Trichloroethane	2.771	2.376	8.830	10.3	-14
Cyclohexane	3.002	2.699	9.259	10.3	-10
Carbon Tetrachloride	2.732	2.361	8.989	10.4	-14
Benzene	1.420	1.185	8.848	10.6	-17
1,2-Dichloroethane	0.787	0.589	7.782	10.4	-25
Isooctane	2.497	2.155	9.064	10.5	-14
Tert-Amyl Methyl Ether	0.657	0.649	10.560	10.7	-1
Heptane	1.115	0.883	8.317	10.5	-21
Trichloroethene	0.584	0.442	7.804	10.3	-24
Ethyl Acrylate	0.675	0.608	9.724	10.8	-10
1,2-Dichloropropane	0.580	0.464	8.412	10.5	-20
Dibromomethane	0.373	0.295	8.323	10.5	-21
1,4-Dioxane	0.196	0.194	10.232	10.3	-1
Methyl Methacrylate	0.325	0.292	9.058	10.1	-10
Bromodichloromethane	1.114	0.887	8.208	10.3	-20
cis-1,3-Dichloropropene	0.644	0.573	8.455	9.5	-11
4-Methyl-2-Pentanone	0.910	0.837	9.379	10.2	-8
Toluene	1.143	1.040	9.650	10.6	-9
Octane	1.262	1.144	9.337	10.3	-9
trans-1,3-Dichloropropene	0.678	0.580	8.643	10.1	-14
Ethyl Methacrylate	0.540	0.512	9.571	10.1	-5
1,1,2-Trichloroethane	0.474	0.398	8.904	10.6	-16
Tetrachloroethene	0.570	0.482	9.049	10.7	-15
2-Hexanone	1.011	0.890	9.590	10.9	-12
Dibromochloromethane	0.631	0.534	8.291	9.8	-15
1,2-Dibromoethane	0.683	0.572	8.379	10	-16
Chlorobenzene	0.910	0.771	8.991	10.6	-15
1,1,1,2-Tetrachloroethane	0.432	0.375	9.194	10.6	-13
Ethylbenzene	1.214	1.133	9.891	10.6	-7
m/p-Xylene	0.971	0.866	8.742	9.8	-11
o-Xylene	1.026	0.908	9.466	10.7	-12
Styrene	0.775	0.704	9.450	10.4	-9
Bromoform	0.554	0.493	8.902	10	-11
Cumene	1.101	1.032	9.744	10.4	-6
Bromobenzene	0.408	0.353	9.171	10.6	-13
1,1,2,2-Tetrachloroethane	1.060	0.859	8.673	10.7	-19
1,2,3-Trichloropropane	0.240	0.205	8.712	10.2	-15
n-Propylbenzene	0.318	0.283	8.892	10	-11

\* Maximum %DRIFT = 30%.

# Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: ci00164.d

Calibration Date: 09/09/2015

Instrument ID: 09464

Calibration Time: 16:15

Init. Calib. Date(s): 09/03/2015 - 09/04/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.333	0.296	9.136	10.3	-11
4-Ethyltoluene	1.199	1.060	8.924	10.1	-12
1,3,5-Trimethylbenzene	1.012	0.845	8.603	10.3	-16
Alpha Methyl Styrene	0.488	0.417	8.460	9.9	-15
tert-Butylbenzene	0.853	0.731	8.733	10.2	-14
1,2,4-Trimethylbenzene	1.072	0.872	8.293	10.2	-19
sec-Butylbenzene	1.421	1.226	8.711	10.1	-14
1,3-Dichlorobenzene	0.757	0.617	8.560	10.5	-18
1,4-Dichlorobenzene	0.771	0.628	8.313	10.2	-18
p-Isopropyltoluene	1.125	0.943	8.464	10.1	-16
Benzyl Chloride	1.130	0.964	7.255	8.5	-15
1,2-Dichlorobenzene	0.703	0.563	8.098	10.1	-20
n-Butylbenzene	1.327	1.068	8.208	10.2	-20
Hexachloroethane	0.424	0.314	8.076	10.9	-26
1,2-Dibromo-3-chloropropane	0.342	0.289	8.116	9.6	-15
1,2,4-Trichlorobenzene	0.397	0.279	6.751	9.6	-30
Hexachlorobutadiene	0.367	0.267	7.195	9.9	-27
Naphthalene	1.043	0.806	8.043	10.4	-23

\* Maximum %DRIFT = 30%.

# Average RRF for all compounds must be greater than 0.010.



Lancaster Laboratories  
Environmental

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

SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 09/09/2015

Lab File ID: ci00164.d

Analyzed Time: 16:15

Instrument ID: 09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	673521	7.23	2151177	9.22	2071426	15.55
UPPER LIMIT	942929	7.56	3011648	9.55	2899996	15.88
LOWER LIMIT	404113	6.90	1290706	8.89	1242856	15.22
LAB SAMPLE ID						
VBLKC77	545444	7.24	1910720	9.23	1829924	15.55
cc801	535155	7.23	1765125	9.23	1760147	15.55
cc1136	470360	7.24	1653750	9.23	1718759	15.55
cc1032	459834	7.24	1415025	9.23	1491849	15.55
cc507	466596	7.24	1363779	9.23	1395545	15.55
cc985	488666	7.23	1746631	9.23	1766592	15.55
cc1058	461351	7.24	1266958 *	9.23	1295721	15.56
cc1144	434598	7.24	1145440 *	9.24	1153446 *	15.55
cc1167	464664	7.24	1587271	9.23	1664307	15.55
cc1165	487511	7.24	1465528	9.23	1374760	15.55
cc1019	441214	7.24	1265785 *	9.23	1330549	15.55
cc1011	445622	7.24	1261443 *	9.24	1302809	15.55
cc912	476197	7.24	1375722	9.23	1374600	15.55

\* = Outside of the QC Limits.

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

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB

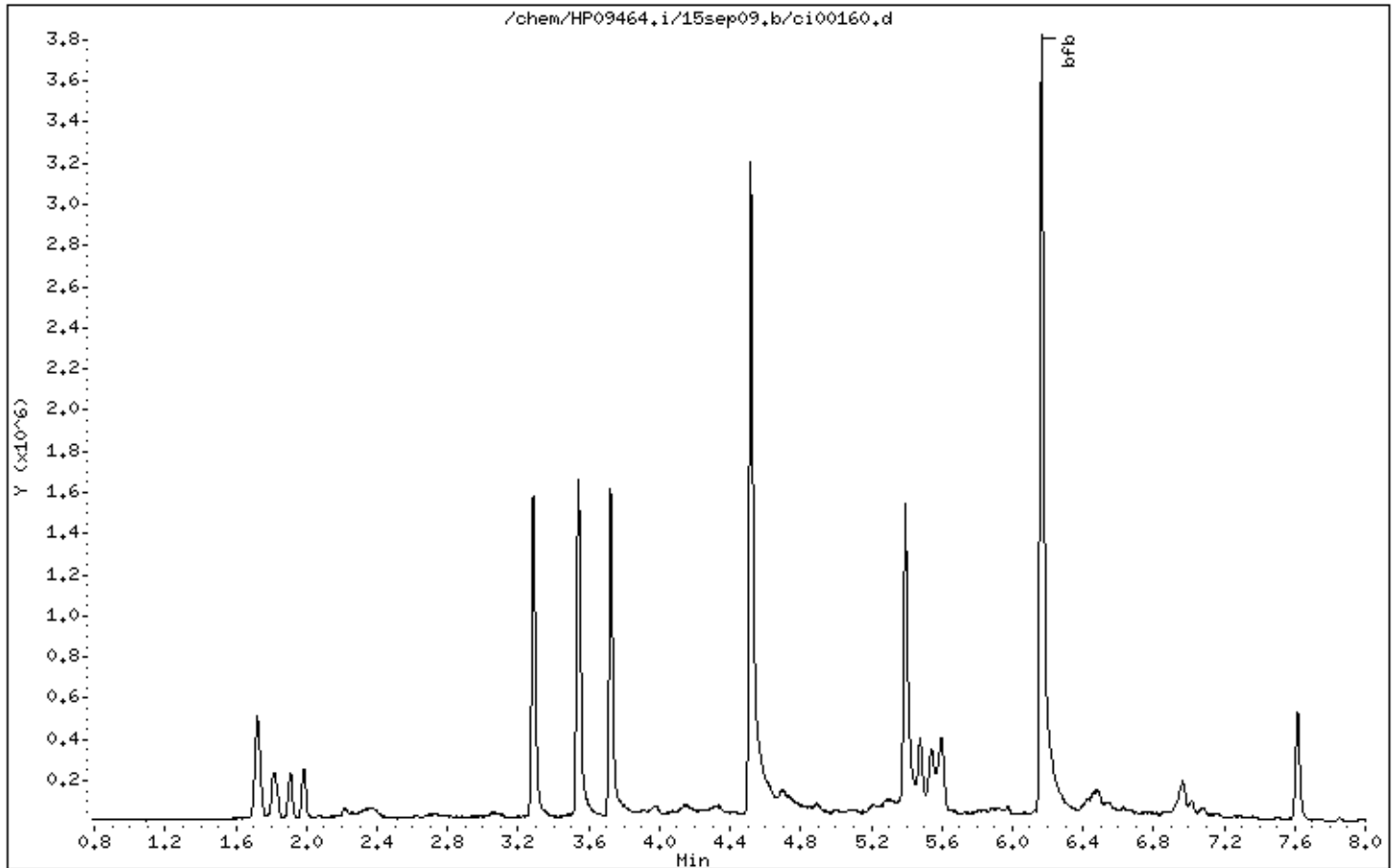
Instrument: HP09464.i

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

Operator: jbs01304

Column phase: DB-624

Column diameter: 0,25



Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.  
Target 3.5 esignature user ID: jeb07445

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB

Instrument: HP09464.i

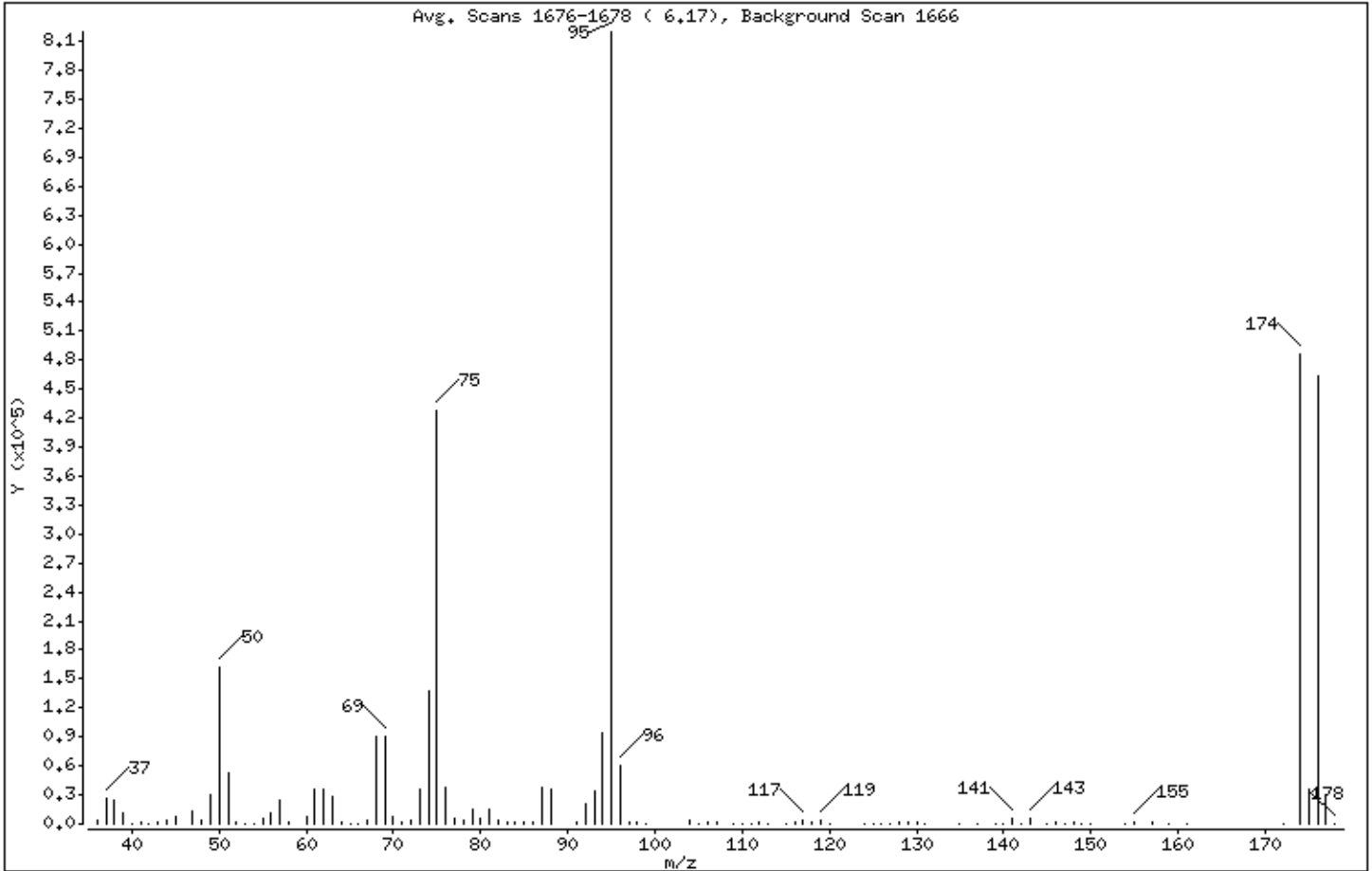
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0,25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	8,00 - 40,00% of mass 95	19,77
75	30,00 - 66,00% of mass 95	52,18
96	5,00 - 9,00% of mass 95	7,34
173	Less than 2,00% of mass 174	0,00 ( 0,00)
174	50,00 - 120,00% of mass 95	59,37
175	4,00 - 9,00% of mass 174	4,32 ( 7,27)
176	93,00 - 101,00% of mass 174	56,46 ( 95,10)
177	5,00 - 9,00% of mass 176	3,77 ( 6,68)

Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.  
Target 3.5 esignature user ID: jeb07445

Date : 09-SEP-2015 12:51

Client ID: 50NGBFB

Instrument: HP09464.i

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

Operator: jbs01304

Column phase: DB-624

Column diameter: 0,25

Data File: ci00160.d

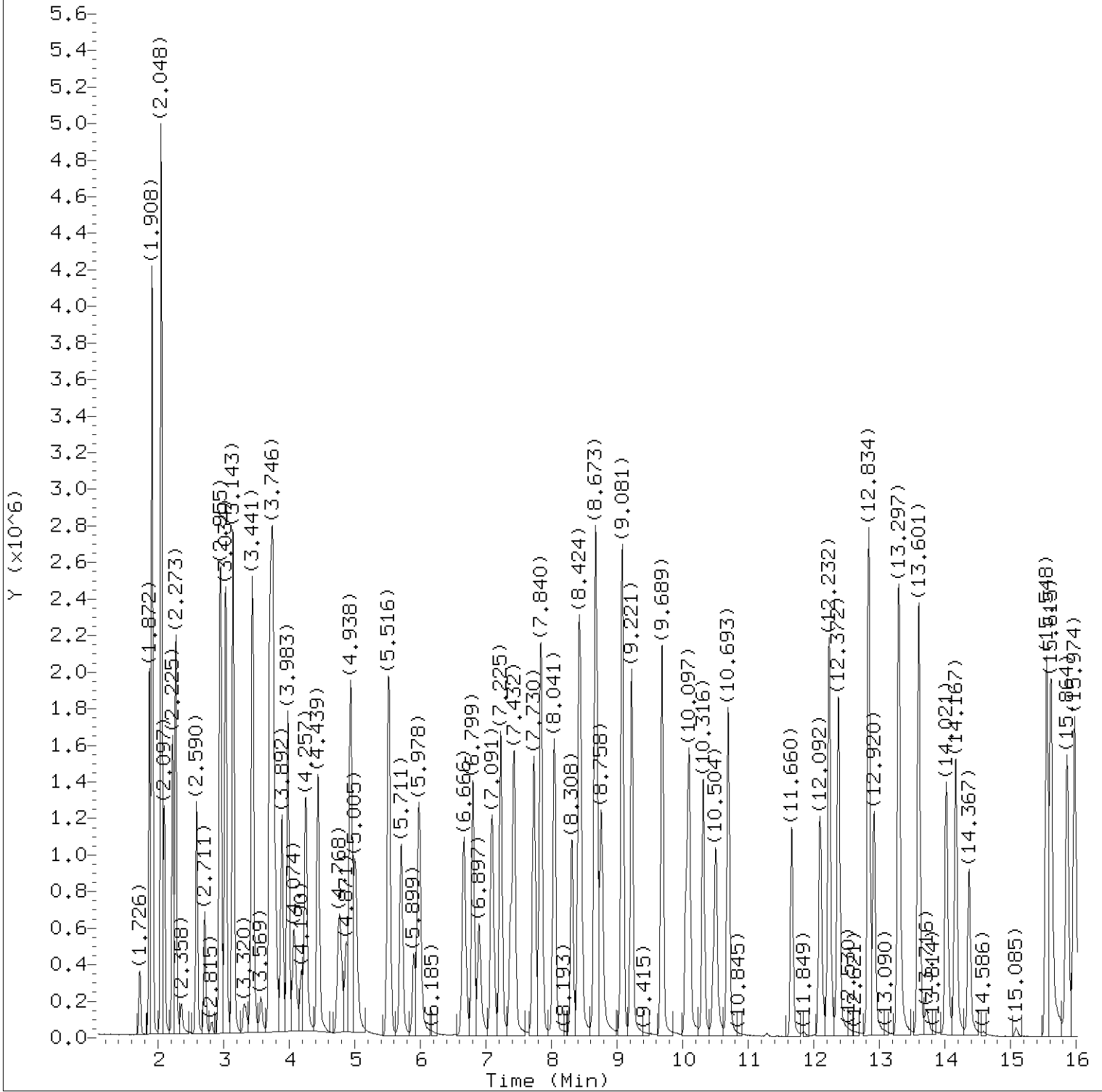
Spectrum: Avg. Scans 1676-1678 ( 6,17), Background Scan 1666

Location of Maximum: 95,00

Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	4311	65,00	508	94,00	94672	130,00	2311
37,00	26904	66,00	678	95,00	819840	131,00	918
38,00	25440	67,00	3512	96,00	60144	135,00	931
39,00	11337	68,00	89792	97,00	2722	137,00	918
40,00	76	69,00	90568	98,00	1095	139,00	573
41,00	1226	70,00	8119	99,00	175	140,00	683
42,00	487	71,00	2426	104,00	2844	141,00	5155
43,00	1547	72,00	4421	105,00	655	142,00	607
44,00	3191	73,00	35808	106,00	2743	143,00	5063
45,00	7489	74,00	137280	107,00	1202	145,00	189
47,00	12444	75,00	427776	109,00	406	146,00	1002
48,00	4422	76,00	38600	110,00	770	147,00	207
49,00	30432	77,00	5487	111,00	660	148,00	1548
50,00	162048	78,00	4504	112,00	964	149,00	182
51,00	52808	79,00	15218	113,00	676	150,00	580
52,00	2683	80,00	5321	115,00	794	154,00	167
53,00	464	81,00	14520	116,00	2314	155,00	1512
54,00	10	82,00	4423	117,00	4700	157,00	1183
55,00	5003	83,00	2305	118,00	2236	159,00	626
56,00	11476	84,00	1190	119,00	3407	161,00	687
57,00	24840	85,00	1939	120,00	182	172,00	855
58,00	1178	86,00	1081	124,00	231	174,00	486720
60,00	7404	87,00	37224	125,00	444	175,00	35384
61,00	35872	88,00	35872	126,00	192	176,00	462848
62,00	36672	91,00	2428	127,00	459	177,00	30920
63,00	27568	92,00	21320	128,00	2512	178,00	770
64,00	2655	93,00	34816	129,00	1253		

Digitally signed by Jacob E. Bailey on 09/09/2015 at 20:17.  
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d  
Injection date and time: 09-SEP-2015 16:15

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

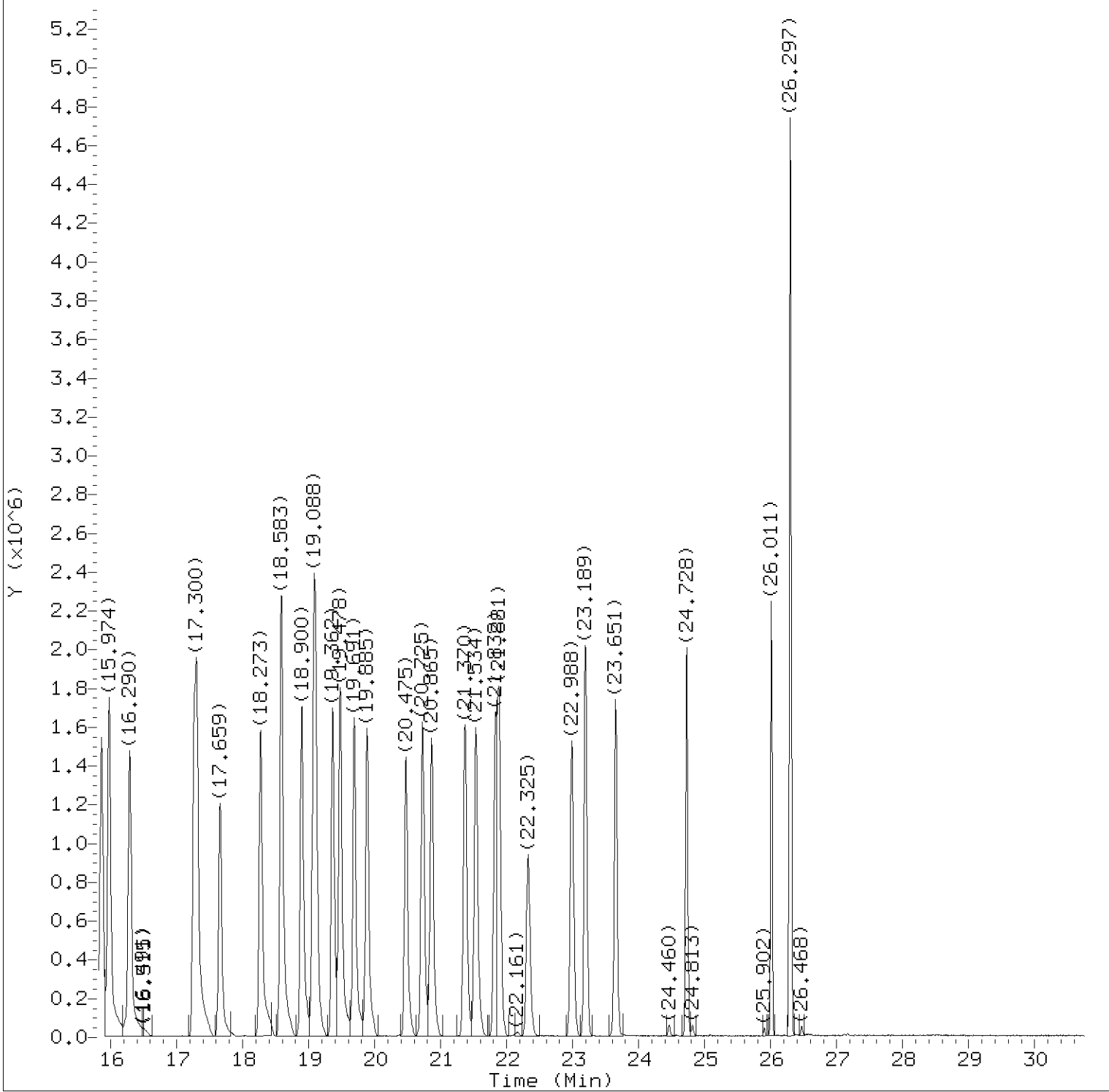
Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey  
on 09/09/2015 at 20:17.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d  
Injection date and time: 09-SEP-2015 16:15

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey  
on 09/09/2015 at 20:17.

Target 3.5 esignature user ID: jeb07445



Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d  
 Injection date and time: 09-SEP-2015 16:15

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55  
 Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	1107180	8.799
2) Dichlorodifluoromethane	(1)	1.908	85	2780502	8.476
3) Chlorodifluoromethane	(1)	1.914	51	2186599	8.365
4) Freon 114	(1)	2.048	85	2671928	8.914
5) Chloromethane	(1)	2.097	52	504758	8.856
6) Vinyl Chloride	(1)	2.225	62	1433432	9.283
7) 1,3-Butadiene	(1)	2.273	54	1143476	8.812
8) Bromomethane	(1)	2.590	94	1002492	8.643
9) Chloroethane	(1)	2.711	64	762807	8.108
10) Bromoethene	(1)	2.936	106	988802	10.185
11) Dichlorofluoromethane	(1)	2.955	67	2792091	8.358
12) Trichlorofluoromethane	(1)	3.034	101	2654219	8.169
13) Pentane	(1)	3.143	43	2480515	8.081
14) Ethanol	(1)	3.314	45	354332	5.201
15) Freon123a	(1)	3.441	67	2375299	8.675
16) Acrolein	(1)	3.569	56	234207	7.175
17) 1,1-Dichloroethene	(1)	3.703	61	2118832	8.824
18) Freon 113	(1)	3.752	103	1250880	8.100
19) Acetone	(1)	3.800	43	1071207	9.397
20) Methyl Iodide	(1)	3.892	142	1892476	9.541
21) Carbon Disulfide	(1)	3.983	76	3651909	8.695
22) Isopropanol	(1)	4.074	45	1538795	8.122
23) Acetonitrile	(1)	4.190	40	265854	7.707
24) 3-Chloropropene	(1)	4.257	76	592574	9.258
25) Methylene Chloride	(1)	4.439	84	1061380	9.633
26) tert-Butyl Alcohol	(1)	4.768	59	1875130	10.096
27) Acrylonitrile	(1)	4.871	53	722115	8.474
28) trans-1,2-Dichloroethene	(1)	4.938	61	2028535	7.623
29) Methyl t-Butyl Ether	(1)	5.005	73	1858947	10.634
30) Hexane	(1)	5.522	57	1717864	9.247
31) 1,1-Dichloroethane	(1)	5.711	63	1934357	8.602
32) Vinyl Acetate	(1)	5.899	86	88396	9.255
33) Di-Isopropyl Ether	(1)	5.978	45	2330276	11.153
36) 1,2-Dichloroethene (total)	(1)		61	3540691	16.344
34) Ethyl Tert-Butyl Ether	(1)	6.666	59	1723396	11.358
35) cis-1,2-Dichloroethene	(1)	6.799	61	1512156	8.721
37) 2-Butanone	(1)	6.897	72	305505	10.873
38) Ethyl Acetate	(1)	7.085	70	173239	11.851

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 on 09/09/2015 at 20:17.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d  
 Injection date and time: 09-SEP-2015 16:15

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.104	55	1169098	10.569
40)*Bromochloromethane	(1)	7.231	130	673521	10.000
41) Tetrahydrofuran	(1)	7.377	42	818506	10.009
42) Chloroform	(1)	7.432	83	1846468	8.678
43) 1,1,1-Trichloroethane	(1)	7.736	97	1648080	8.830
44) Cyclohexane	(1)	7.840	56	1872205	9.259
45) Carbon Tetrachloride	(1)	8.047	117	1654127	8.989
46) Benzene	(2)	8.418	78	2703230	8.848
47) 1,2-Dichloroethane	(2)	8.448	62	1318000	7.782
48) Isooctane	(2)	8.673	57	4867806	9.064
49) Tert-Amyl Methyl Ether	(2)	8.758	73	1493411	10.560
50) Heptane	(2)	9.081	43	1994881	8.317
51)*1,4-Difluorobenzene	(2)	9.221	114	2151177	10.000
52) Trichloroethene	(2)	9.683	130	979888	7.804
53) Ethyl Acrylate	(2)	10.048	55	1412754	9.724
54) 1,2-Dichloropropane	(2)	10.097	63	1048661	8.412
55) Dibromomethane	(2)	10.316	174	667234	8.323
56) 1,4-Dioxane	(2)	10.474	88	430689	10.232
57) Methyl Methacrylate	(2)	10.510	69	634040	9.058
58) Bromodichloromethane	(2)	10.693	83	1966340	8.208
59) cis-1,3-Dichloropropene	(2)	11.660	75	1170889	8.455
60) 4-Methyl-2-Pentanone	(2)	12.092	43	1836601	9.379
61) Toluene	(3)	12.372	91	2284586	9.649
64) 1,3-Dichloropropene (total)	(3)		75	2384894	17.098
62) Octane	(3)	12.834	43	2441733	9.337
63) trans-1,3-Dichloropropene	(3)	12.920	75	1214005	8.643
65) Ethyl Methacrylate	(3)	13.285	69	1071030	9.571
66) 1,1,2-Trichloroethane	(3)	13.297	97	873715	8.904
67) Tetrachloroethene	(3)	13.601	166	1067940	9.049
68) 2-Hexanone	(3)	14.015	43	2008754	9.590
69) Dibromochloromethane	(3)	14.161	127	1083225	8.291
70) 1,2-Dibromoethane	(3)	14.367	107	1184573	8.379
71)*Chlorobenzene-d5	(3)	15.548	117	2071426	10.000
72) Chlorobenzene	(3)	15.621	112	1693876	8.991
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	822848	9.194
74) Ethylbenzene	(3)	15.974	91	2487405	9.891
75) m/p-Xylene	(3)	16.290	91	1758342	8.742
77) Xylene (total)	(3)		91	3770827	18.208

\* = Compound is an internal standard.

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Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00164.d  
 Injection date and time: 09-SEP-2015 16:15

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 09-Sep-2015 20:17 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.263	91	2012485	9.466
78) Styrene	(3)	17.306	104	1516231	9.450
79) Bromoform	(3)	17.659	173	1022167	8.902
80) Cumene	(3)	18.273	105	2222626	9.744
81) Bromobenzene	(3)	18.900	156	775026	9.171
82) 1,1,2,2-Tetrachloroethane	(3)	19.076	83	1904280	8.673
83) 1,2,3-Trichloropropane	(3)	19.113	110	433225	8.712
84) n-Propylbenzene	(3)	19.368	120	586100	8.892
85) 2-Chlorotoluene	(3)	19.484	126	630812	9.136
86) 4-Ethyltoluene	(3)	19.691	105	2217217	8.924
87) 1,3,5-Trimethylbenzene	(3)	19.885	105	1803535	8.603
88) Alpha Methyl Styrene	(3)	20.475	118	854754	8.460
89) tert-Butylbenzene	(3)	20.725	119	1543562	8.733
90) 1,2,4-Trimethylbenzene	(3)	20.865	105	1842352	8.293
91) sec-Butylbenzene	(3)	21.370	105	2564011	8.711
92) 1,3-Dichlorobenzene	(3)	21.534	146	1341454	8.560
93) 1,4-Dichlorobenzene	(3)	21.826	146	1327856	8.313
94) p-Isopropyltoluene	(3)	21.887	119	1973227	8.464
95) Benzyl Chloride	(3)	22.325	91	1697612	7.255
96) 1,2-Dichlorobenzene	(3)	22.988	146	1178826	8.098
97) n-Butylbenzene	(3)	23.189	91	2255609	8.208
98) Hexachloroethane	(3)	23.651	117	709297	8.076
99) 1,2-Dibromo-3-chloropropane	(3)	24.728	157	574545	8.116
100) 1,2,4-Trichlorobenzene	(3)	26.011	180	554803	6.751
101) Hexachlorobutadiene	(3)	26.291	225	547392	7.195
102) Naphthalene	(3)	26.303	128	1737364	8.043

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 on 09/09/2015 at 20:17.

Target 3.5 esignature user ID: jeb07445

VBLKC77

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKC77

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: 09-SEP-2015 18:43
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Contains data for Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 12 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit, LOQ. Lists 44 target compounds and their detection status.

VBLKC77

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKC77

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: 09-SEP-2015 18:43
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 100 compounds such as Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, etc., all marked as 'Not Detected'.

VBLKC77

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air VBLKC77

Data file: /chem/HP09464.i/15sep09.b/ci00167.d Injection date and time: 09-SEP-2015 18:43  
Data file Sample Info. Line: VBLKC77;;C1524630AC;VBLKC77;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

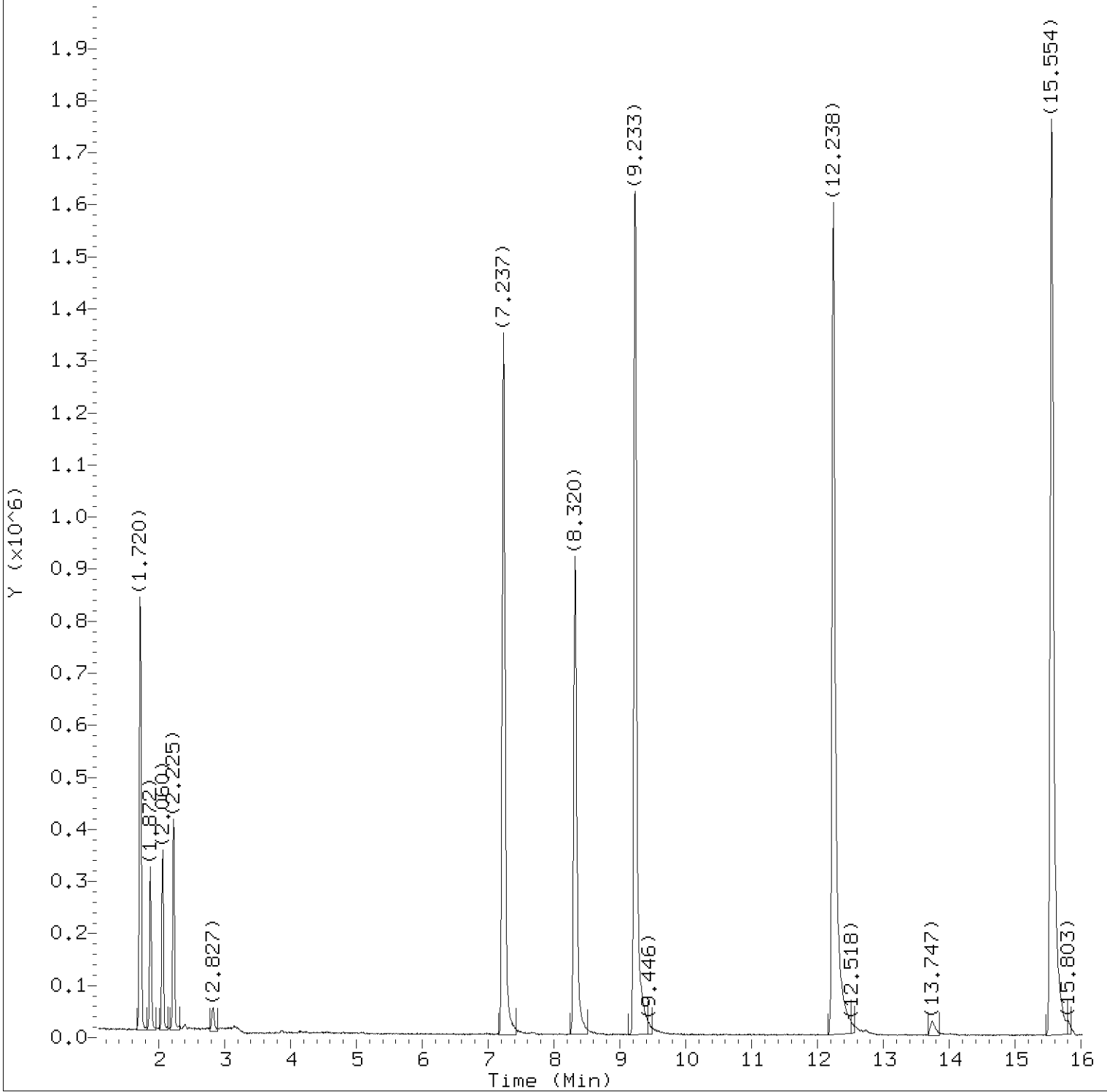
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 09/10/2015 at 14:55. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:07. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d  
Injection date and time: 09-SEP-2015 18:43

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

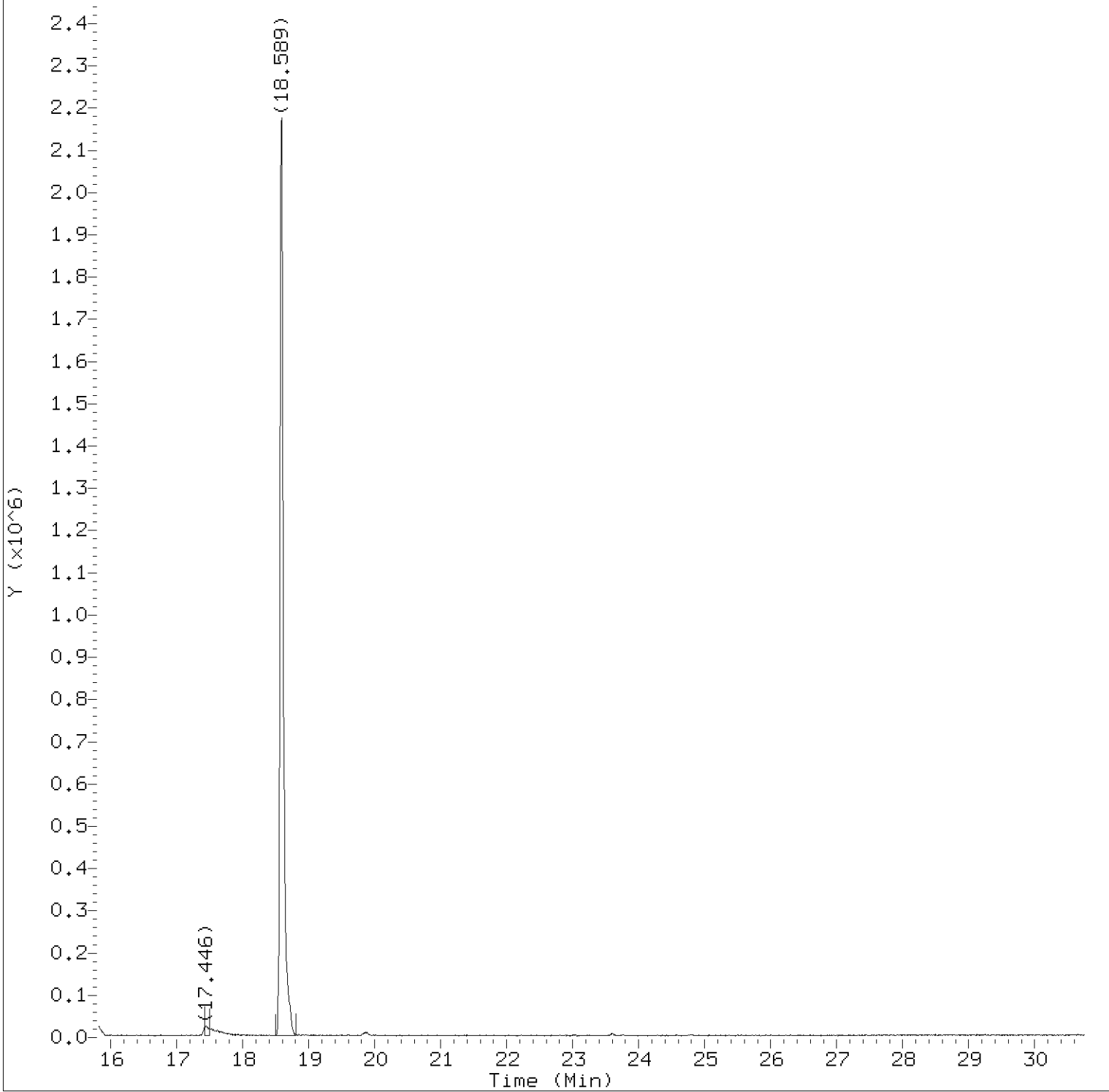
Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77

Lab Sample ID: VBLKC77

Digitally signed by Jacob E. Bailey  
on 09/10/2015 at 14:55.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d  
Injection date and time: 09-SEP-2015 18:43

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77

Lab Sample ID: VBLKC77

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on 09/10/2015 at 14:55.

Target 3.5 esignature user ID: jeb07445



Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00167.d  
Injection date and time: 09-SEP-2015 18:43

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 14:54 jeb07445

Sample Name: VBLKC77

Lab Sample ID: VBLKC77

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.237	130	545444	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1910720	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1829924	10.000

\* = Compound is an internal standard.

page 1 of 1

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on 09/10/2015 at 14:55.  
Target 3.5 esignature user ID: jeb07445

cc985

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc985

Data file: /chem/HP09464.i/15sep09.b/ci00175.d Injection date and time: 10-SEP-2015 01:23
Data file Sample Info. Line: cc985;;C1524630AC;cc985;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 10 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit, LOQ. Lists 44 target compounds and their detection status.

cc985

Lancaster Laboratories, Inc.  
 Analysis Summary for GC/MS Volatiles in Air cc985

Data file: /chem/HP09464.i/15sep09.b/ci00175.d Injection date and time: 10-SEP-2015 01:23  
 Data file Sample Info. Line: cc985;;C1524630AC;cc985;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
 Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
 Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

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

cc985

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc985

Data file: /chem/HP09464.i/15sep09.b/ci00175.d Injection date and time: 10-SEP-2015 01:23  
Data file Sample Info. Line: cc985;;C1524630AC;cc985;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

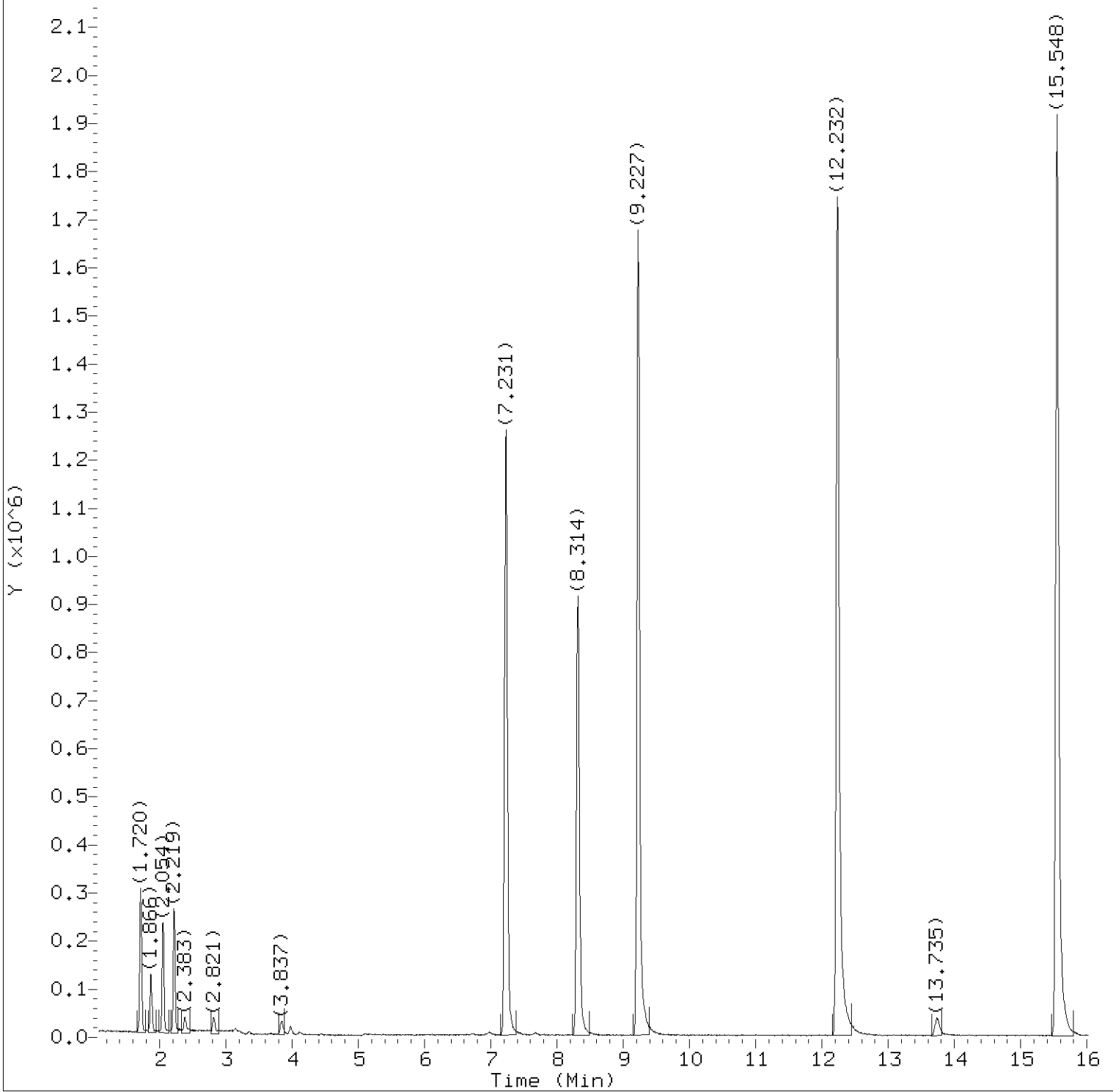
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:12. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00175.d  
Injection date and time: 10-SEP-2015 01:23

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

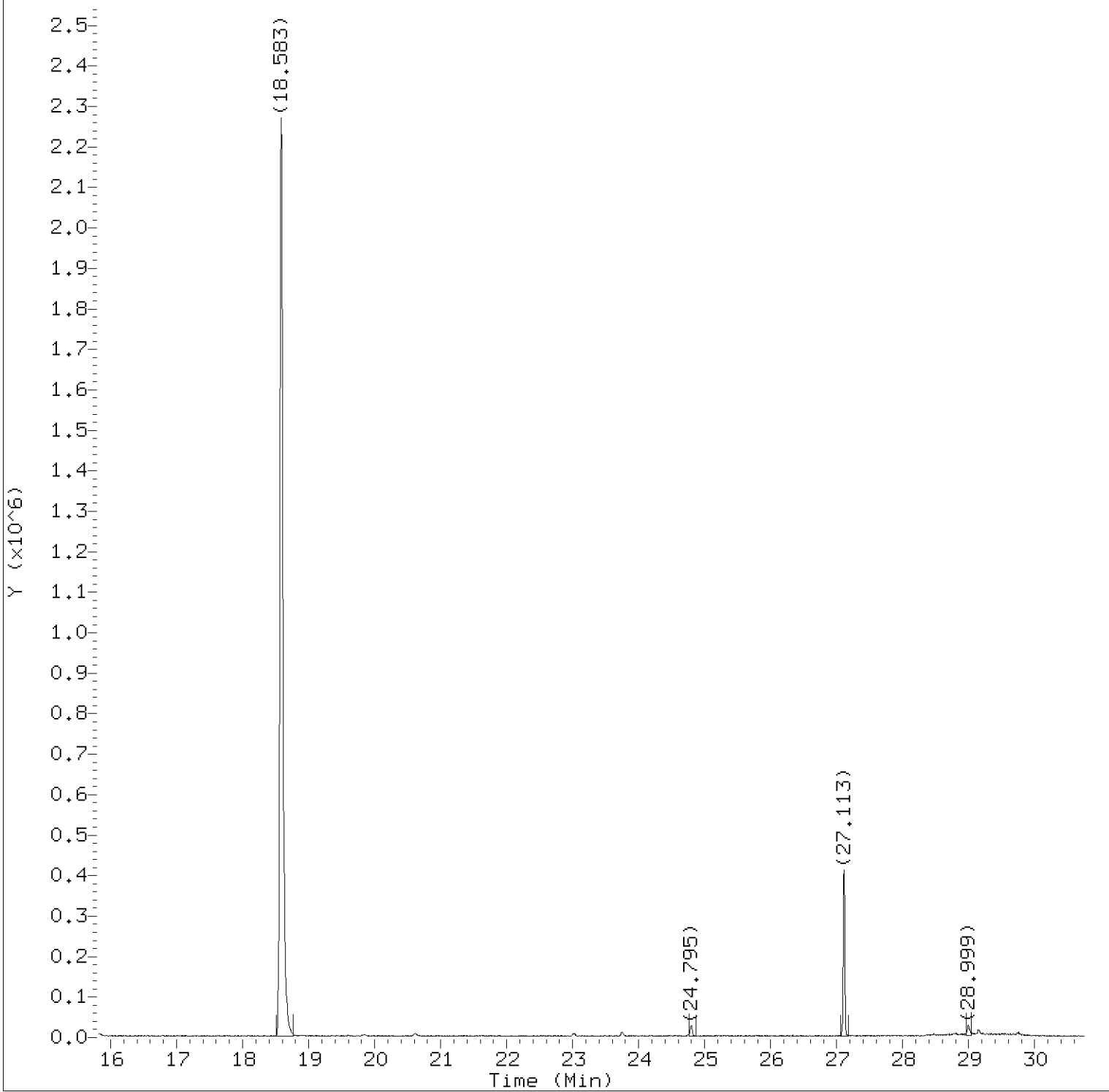
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc985

Lab Sample ID: cc985

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00175.d  
Injection date and time: 10-SEP-2015 01:23

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc985

Lab Sample ID: cc985

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00175.d  
Injection date and time: 10-SEP-2015 01:23

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc985

Lab Sample ID: cc985

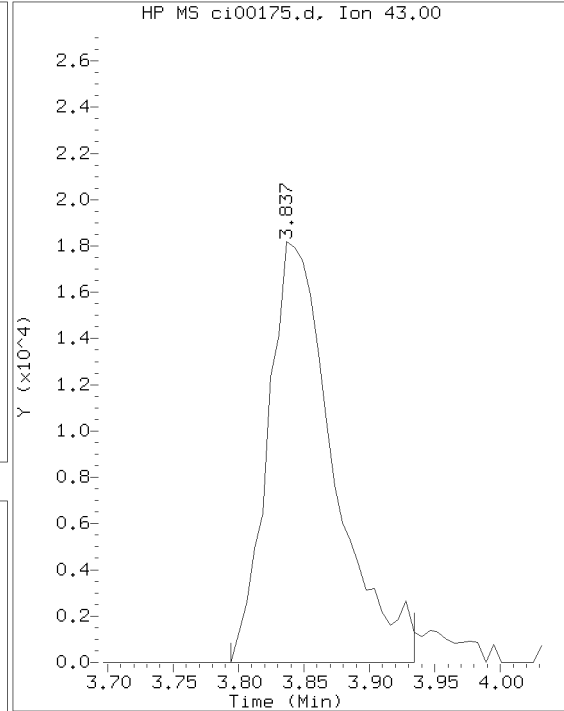
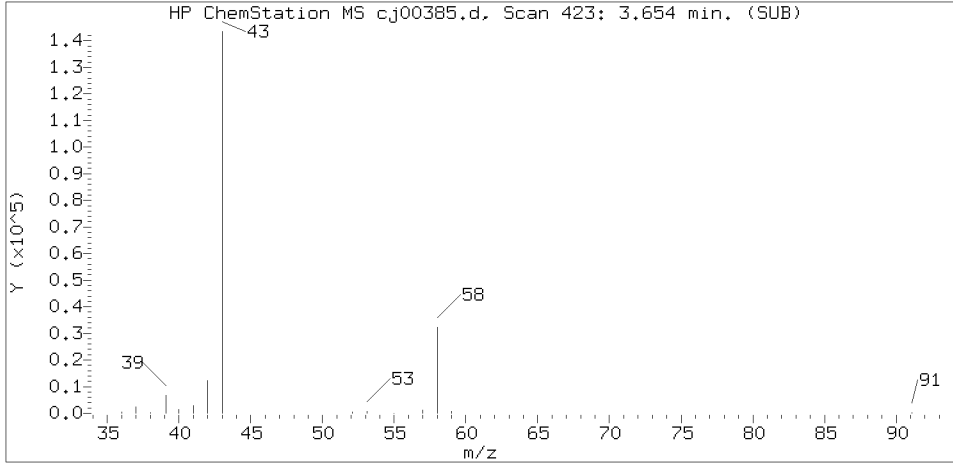
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.837	43	63304	0.765
40)*Bromochloromethane	(1)	7.225	130	488666	10.000
51)*1,4-Difluorobenzene	(2)	9.227	114	1746631	10.000
71)*Chlorobenzene-d5	(3)	15.548	117	1766592	10.000

\* = Compound is an internal standard.

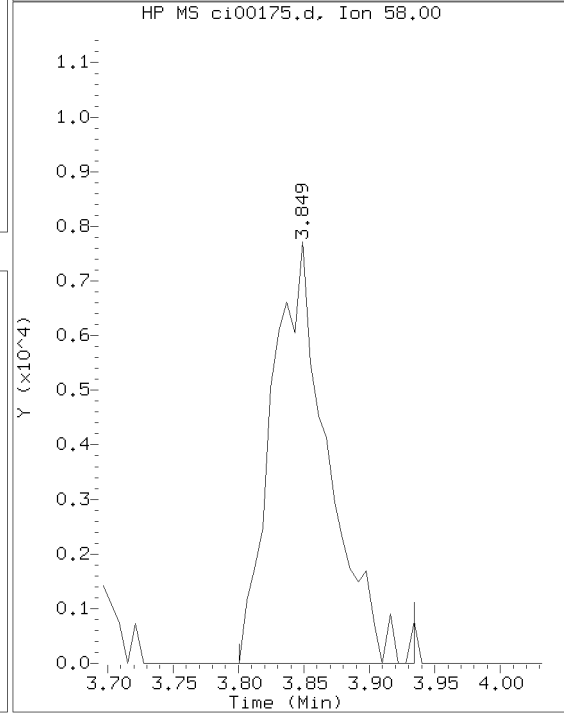
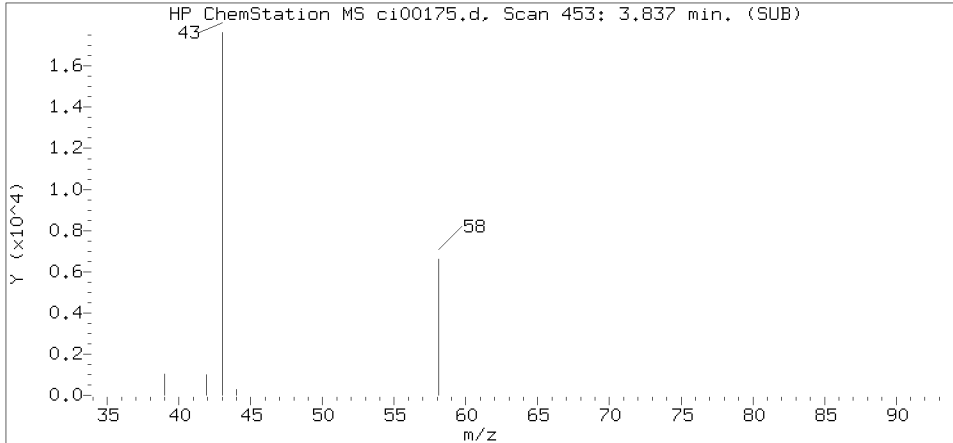
page 1 of 1

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.  
Target 3.5 esignature user ID: jbs01304

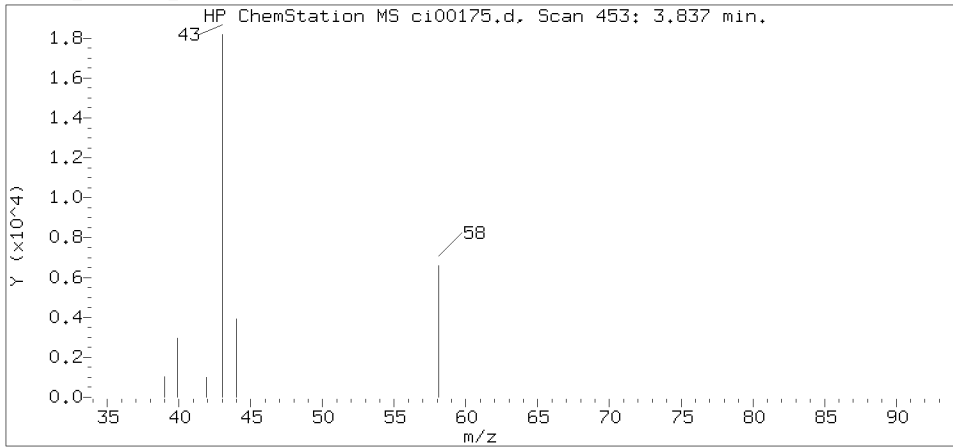
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15sep09.b/ci00175.d  
 Injection date and time: 10-SEP-2015 01:23

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55  
 Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc985

Lab Sample ID: cc985

Compound Number : 19  
 Compound Name : Acetone  
 Scan Number : 453  
 Retention Time (minutes): 3.837  
 Relative Retention Time : -0.00550  
 Quant Ion : 43.00  
 Area (flag) : 63304  
 Concentration (ppb(v)) : 0.7654



cc1058

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1058

Data file: /chem/HP09464.i/15sep09.b/ci00176.d Injection date and time: 10-SEP-2015 02:08
Data file Sample Info. Line: cc1058;;C1524630AC;cc1058;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

\* = Internal Standard area outside QC limits

Table with 11 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 43 target compounds and their detection results.

cc1058

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1058

Data file: /chem/HP09464.i/15sep09.b/ci00176.d

Injection date and time: 10-SEP-2015 02:08

Data file Sample Info. Line: cc1058;;C1524630AC;cc1058;0;3;BLANK;

Instrument ID: HP09464.i Batch: C1524630AC

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all

Calibration date and time (Last Method Edit): 09-SEP-2015 16:55

Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa)

Dilution Factor (DF): 1

Canister Pressure after dilution (Xa): 14.7 psia

Canister Pressure before dilution (Ya): 14.7 psia

Nominal Injection Volume (IVn): 250 cc

Actual injection Volume (IVa): 250 cc

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

cc1058

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1058

Data file: /chem/HP09464.i/15sep09.b/ci00176.d Injection date and time: 10-SEP-2015 02:08  
Data file Sample Info. Line: cc1058;;C1524630AC;cc1058;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

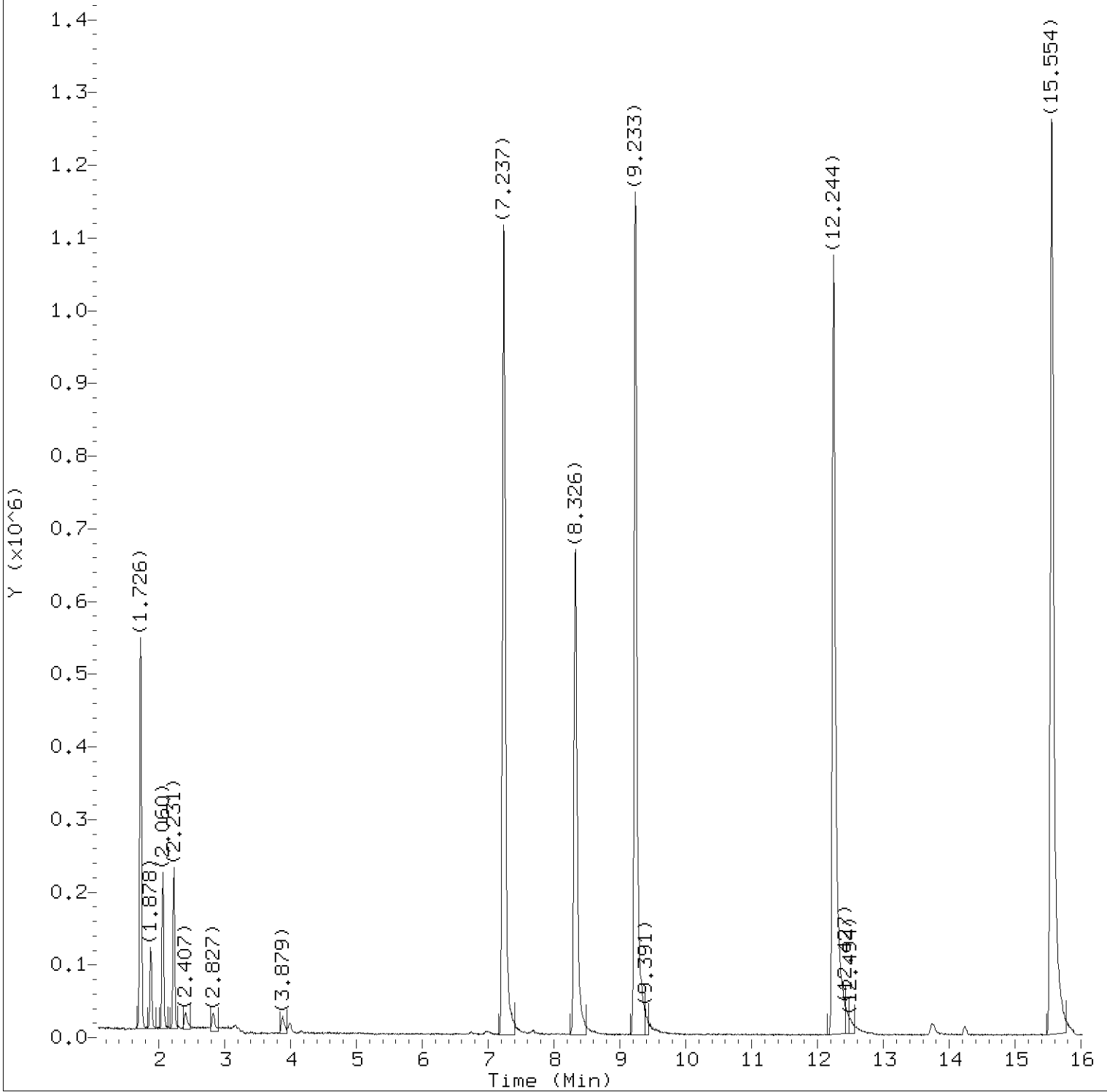
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
100) 1,2,4-Trichlorobenzene	(3)			Not Detected					0.5	2
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:12. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00176.d  
Injection date and time: 10-SEP-2015 02:08

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

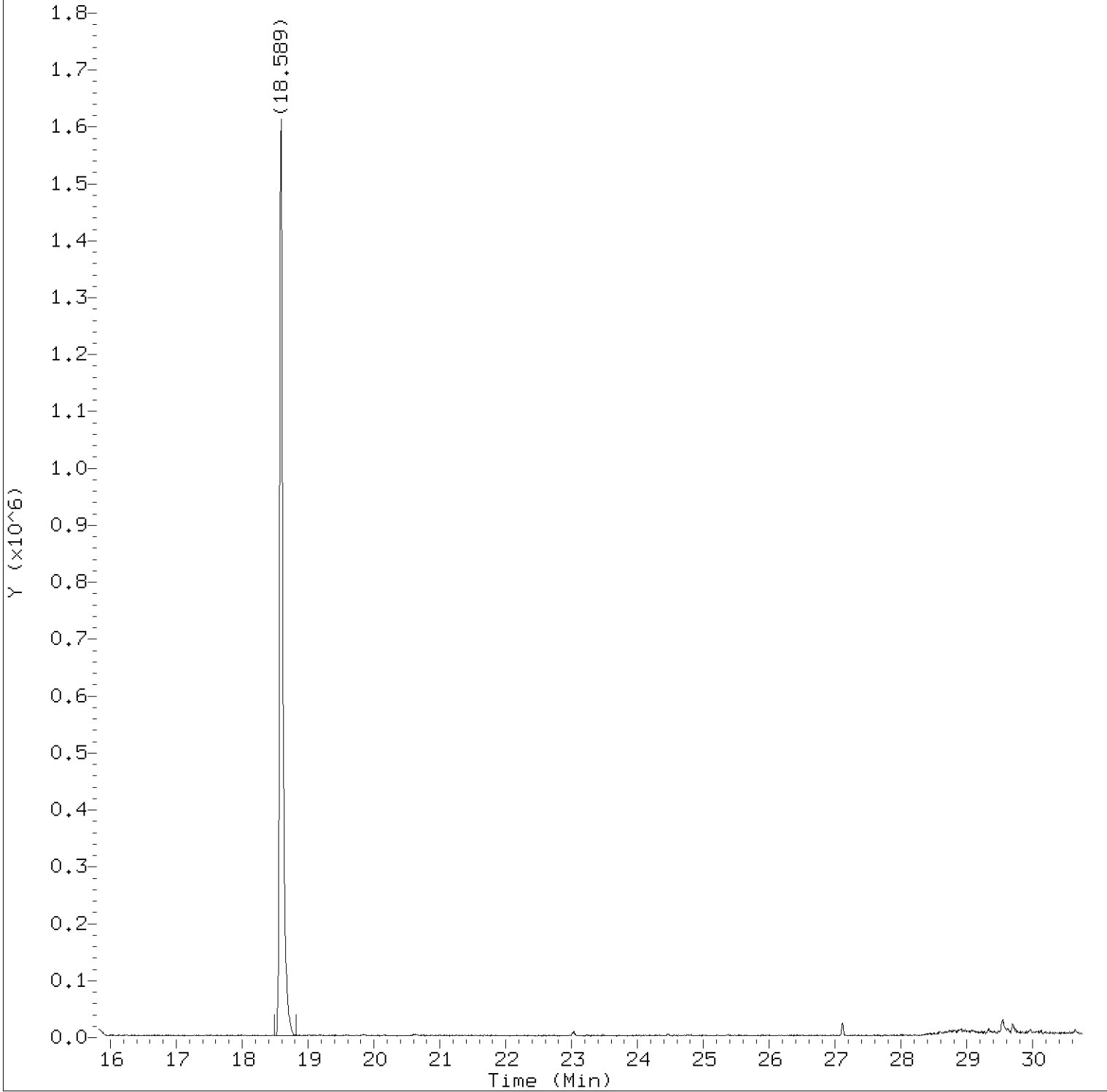
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1058

Lab Sample ID: cc1058

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00176.d  
Injection date and time: 10-SEP-2015 02:08

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1058

Lab Sample ID: cc1058

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00176.d  
Injection date and time: 10-SEP-2015 02:08

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1058

Lab Sample ID: cc1058

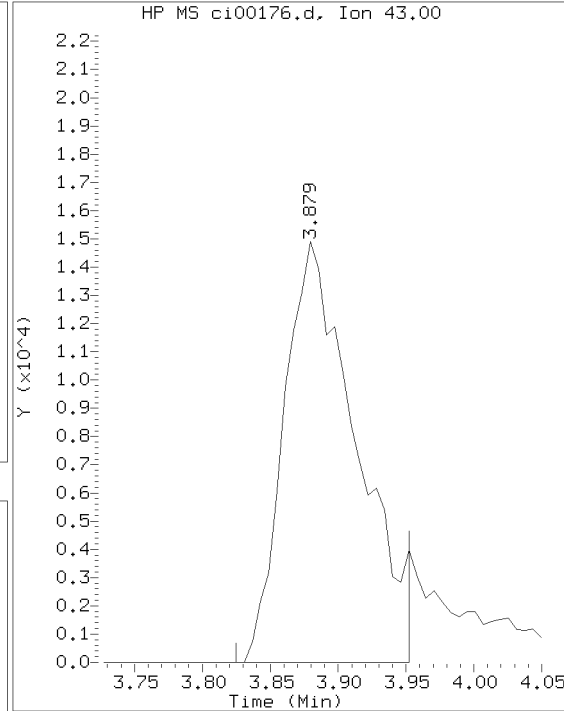
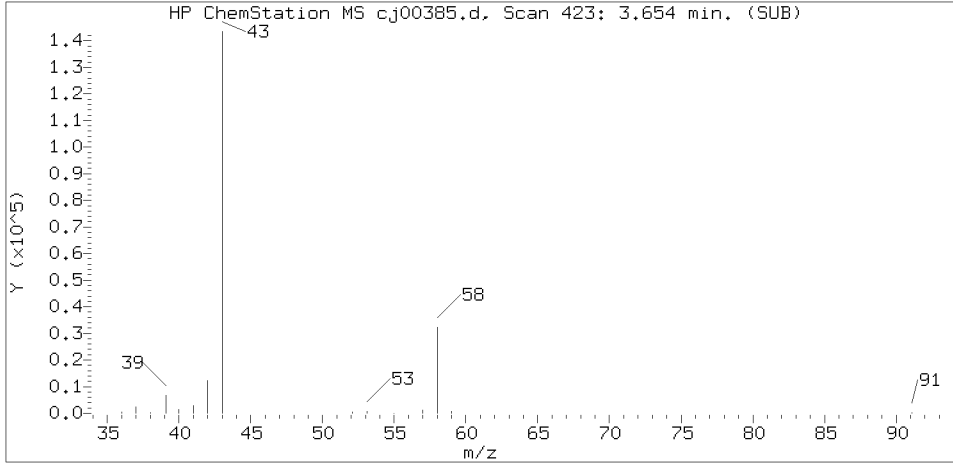
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.879	43	54797	0.702
40)*Bromochloromethane	(1)	7.244	130	461351	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1266958	10.000
71)*Chlorobenzene-d5	(3)	15.560	117	1295721	10.000

\* = Compound is an internal standard.

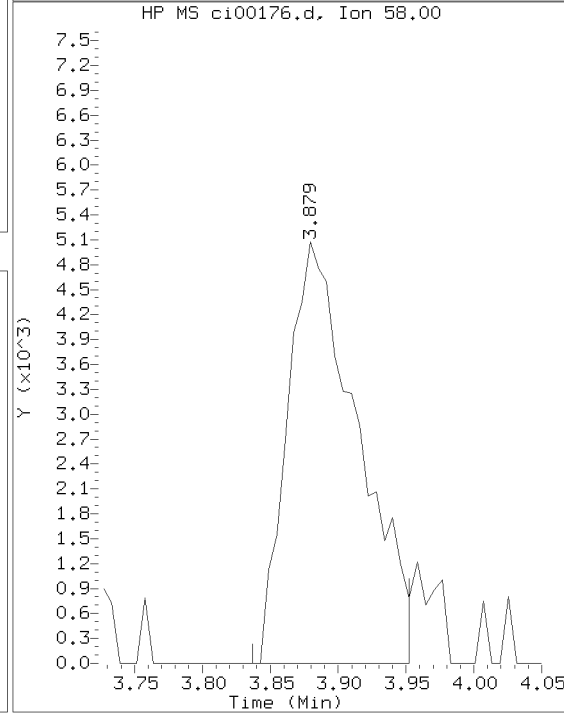
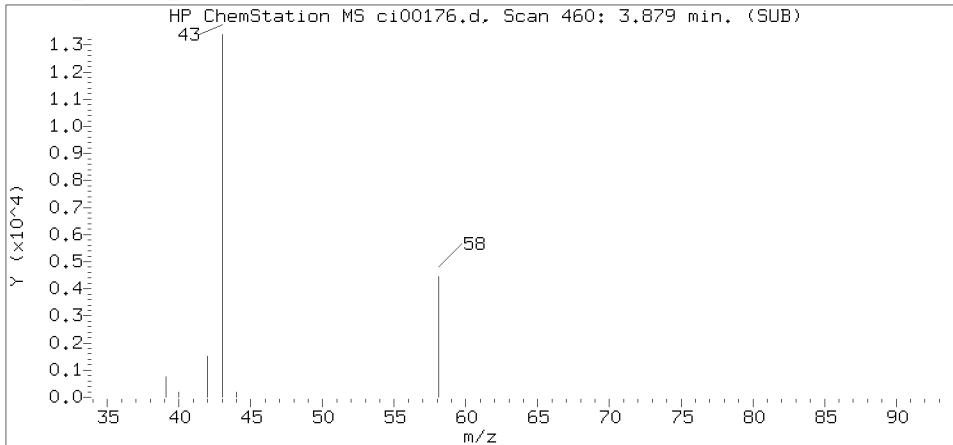
page 1 of 1

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.  
Target 3.5 esignature user ID: jbs01304

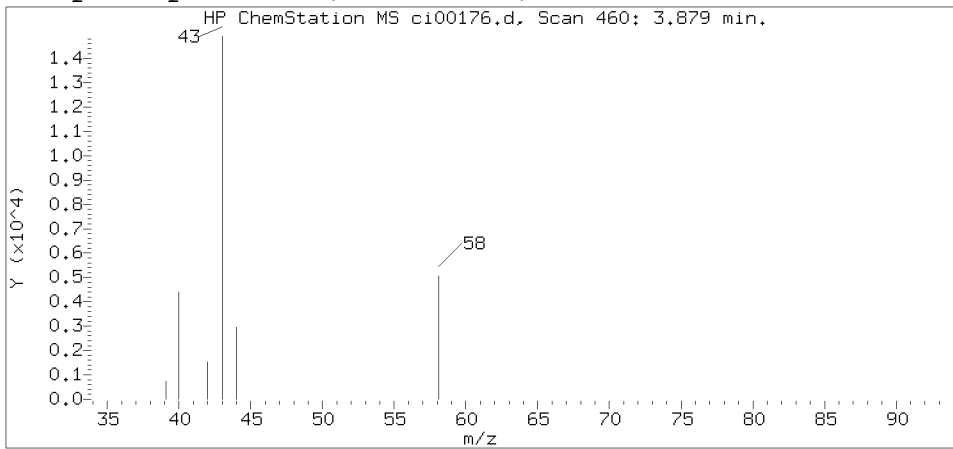
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15sep09.b/ci00176.d  
 Injection date and time: 10-SEP-2015 02:08

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55  
 Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1058

Lab Sample ID: cc1058

Compound Number : 19  
 Compound Name : Acetone  
 Scan Number : 460  
 Retention Time (minutes): 3.879  
 Relative Retention Time : -0.01004  
 Quant Ion : 43.00  
 Area (flag) : 54797  
 Concentration (ppb(v)) : 0.7018

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304  
 SSX23 Page 695 of 1243

cc1167

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1167

Data file: /chem/HP09464.i/15sep09.b/ci00178.d Injection date and time: 10-SEP-2015 03:38
Data file Sample Info. Line: cc1167;;C1524630AC;cc1167;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 11 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit, LOQ. Lists 44 target compounds and their detection status.



cc1167

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1167

Data file: /chem/HP09464.i/15sep09.b/ci00178.d

Injection date and time: 10-SEP-2015 03:38

Data file Sample Info. Line: cc1167;;C1524630AC;cc1167;0;3;BLANK;

Instrument ID: HP09464.i Batch: C1524630AC

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all

Calibration date and time (Last Method Edit): 09-SEP-2015 16:55

Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa)

Dilution Factor (DF): 1

Canister Pressure after dilution (Xa): 14.7 psia

Canister Pressure before dilution (Ya): 14.7 psia

Nominal Injection Volume (IVn): 250 cc

Actual injection Volume (IVa): 250 cc

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

cc1167

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1167

Data file: /chem/HP09464.i/15sep09.b/ci00178.d Injection date and time: 10-SEP-2015 03:38  
Data file Sample Info. Line: cc1167;;C1524630AC;cc1167;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

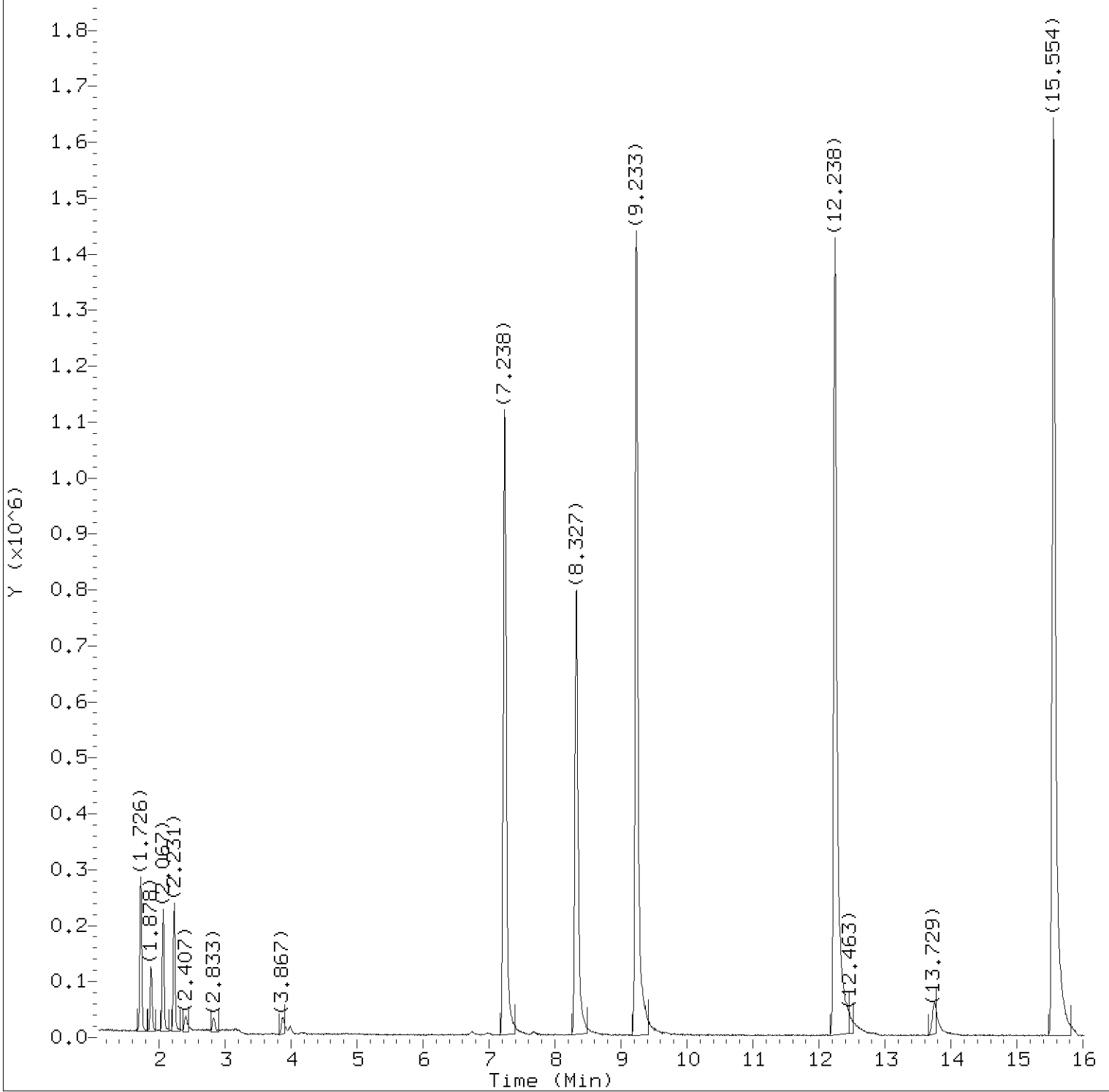
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

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

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:13. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00178.d  
Injection date and time: 10-SEP-2015 03:38

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

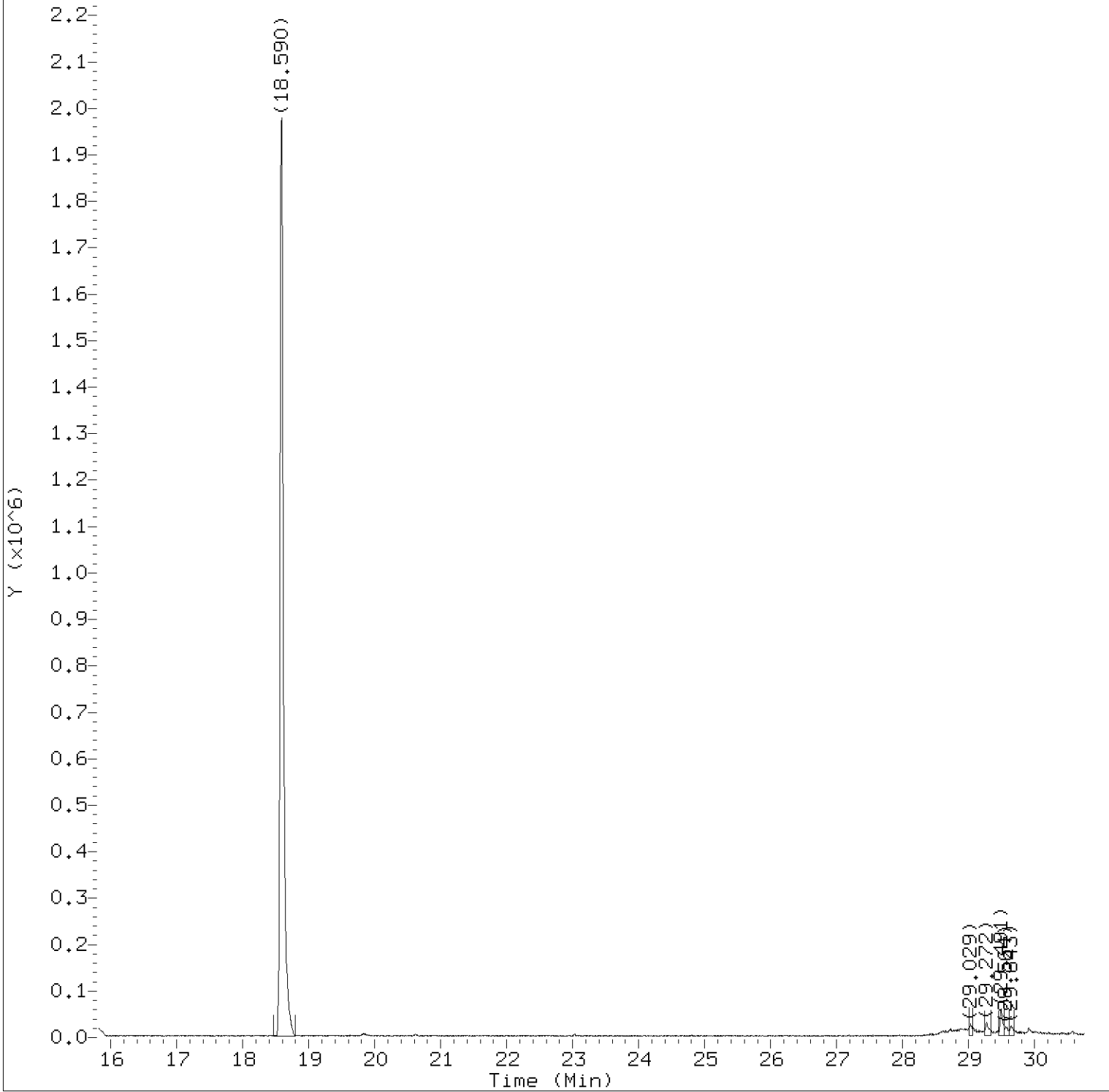
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1167

Lab Sample ID: cc1167

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00178.d  
Injection date and time: 10-SEP-2015 03:38

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1167

Lab Sample ID: cc1167

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00178.d  
Injection date and time: 10-SEP-2015 03:38

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1167

Lab Sample ID: cc1167

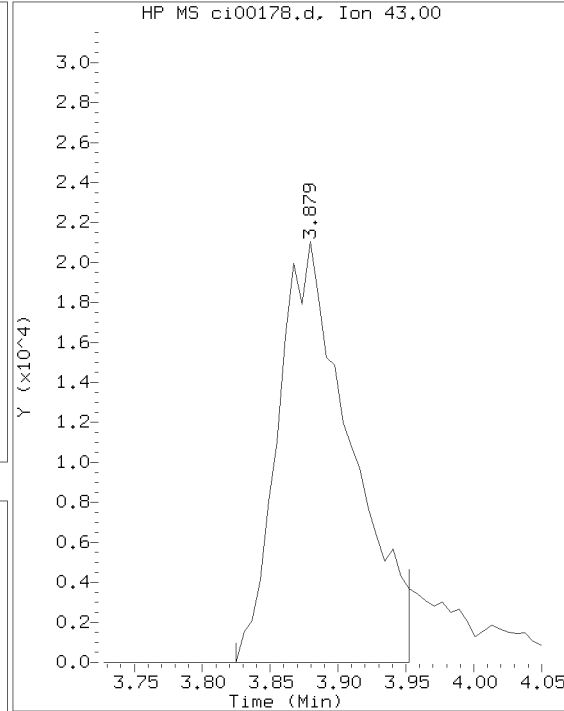
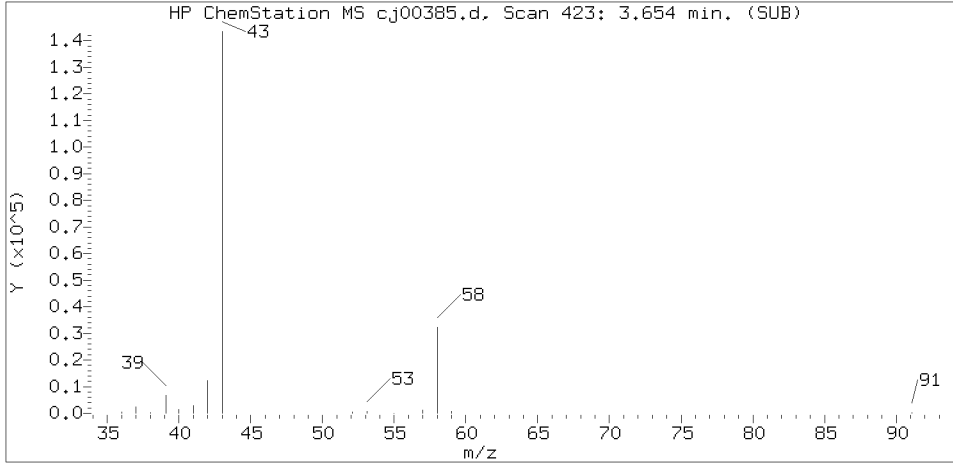
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.879	43	78051	0.992
40)*Bromochloromethane	(1)	7.244	130	464664	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1587271	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1664307	10.000

\* = Compound is an internal standard.

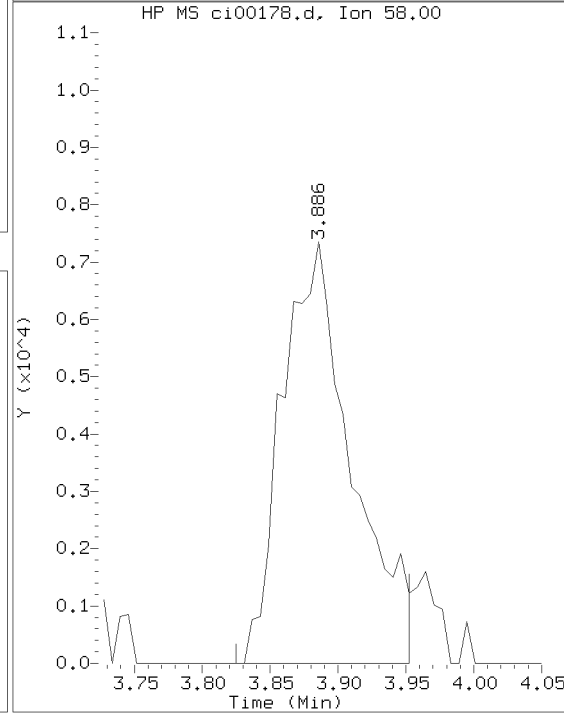
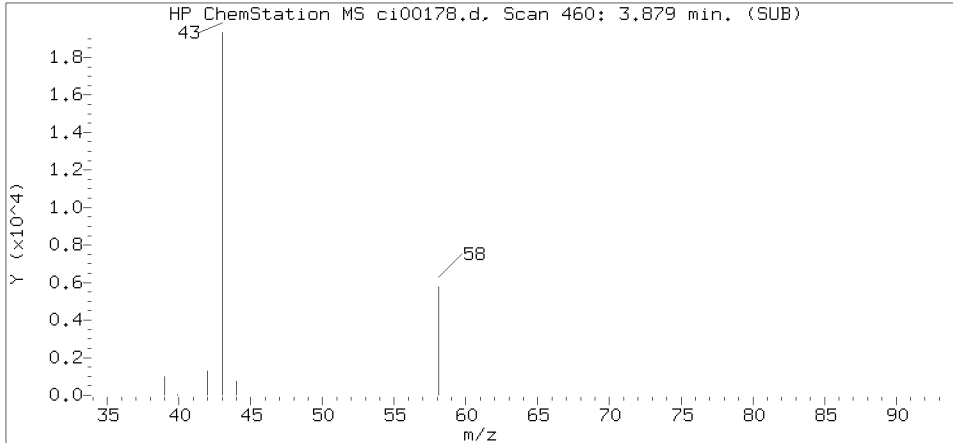
page 1 of 1

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.  
Target 3.5 esignature user ID: jbs01304

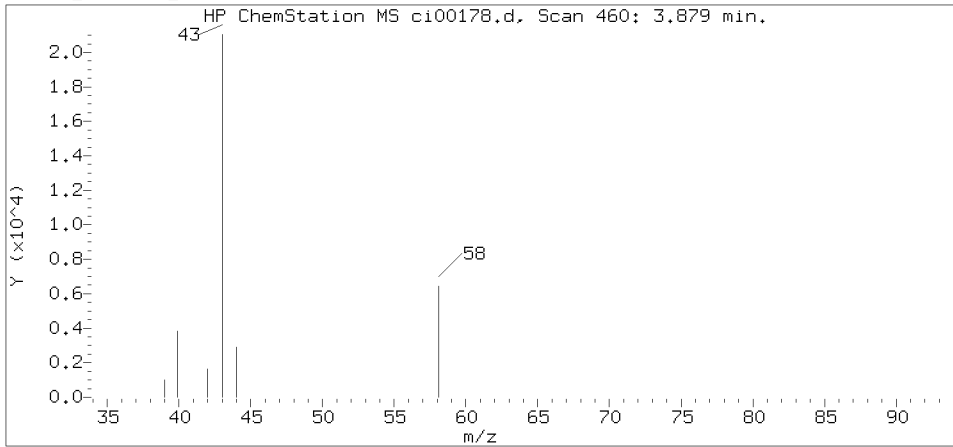
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15sep09.b/ci00178.d  
 Injection date and time: 10-SEP-2015 03:38

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55  
 Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1167

Lab Sample ID: cc1167

Compound Number : 19  
 Compound Name : Acetone  
 Scan Number : 460  
 Retention Time (minutes): 3.879  
 Relative Retention Time : -0.01004  
 Quant Ion : 43.00  
 Area (flag) : 78051  
 Concentration (ppb(v)) : 0.9924

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304  
 SSX23 Page 702 of 1243

cc1019

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1019

Data file: /chem/HP09464.i/15sep09.b/ci00180.d Injection date and time: 10-SEP-2015 05:09
Data file Sample Info. Line: cc1019;;C1524630AC;cc1019;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Contains data for Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

\* = Internal Standard area outside QC limits

Table with 11 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 43 target compounds and their detection status.

cc1019

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1019

Data file: /chem/HP09464.i/15sep09.b/ci00180.d Injection date and time: 10-SEP-2015 05:09
Data file Sample Info. Line: cc1019;;C1524630AC;cc1019;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 99 compounds, all marked as 'Not Detected'.



cc1019

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1019

Data file: /chem/HP09464.i/15sep09.b/ci00180.d Injection date and time: 10-SEP-2015 05:09  
Data file Sample Info. Line: cc1019;;C1524630AC;cc1019;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

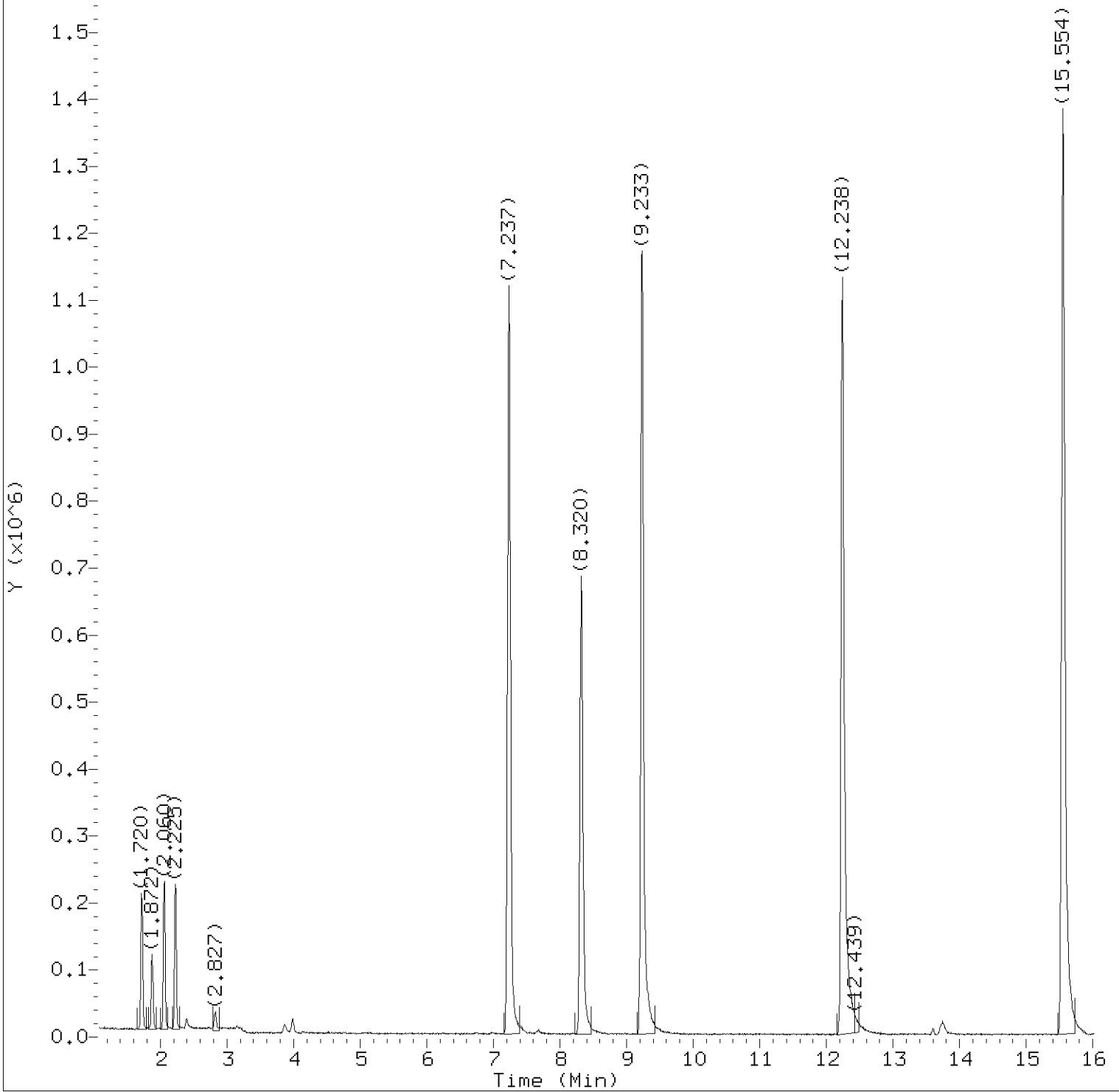
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting	
									Limit	LOQ
100) 1,2,4-Trichlorobenzene	(3)			Not Detected					0.5	2
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:15. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00180.d  
Injection date and time: 10-SEP-2015 05:09

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

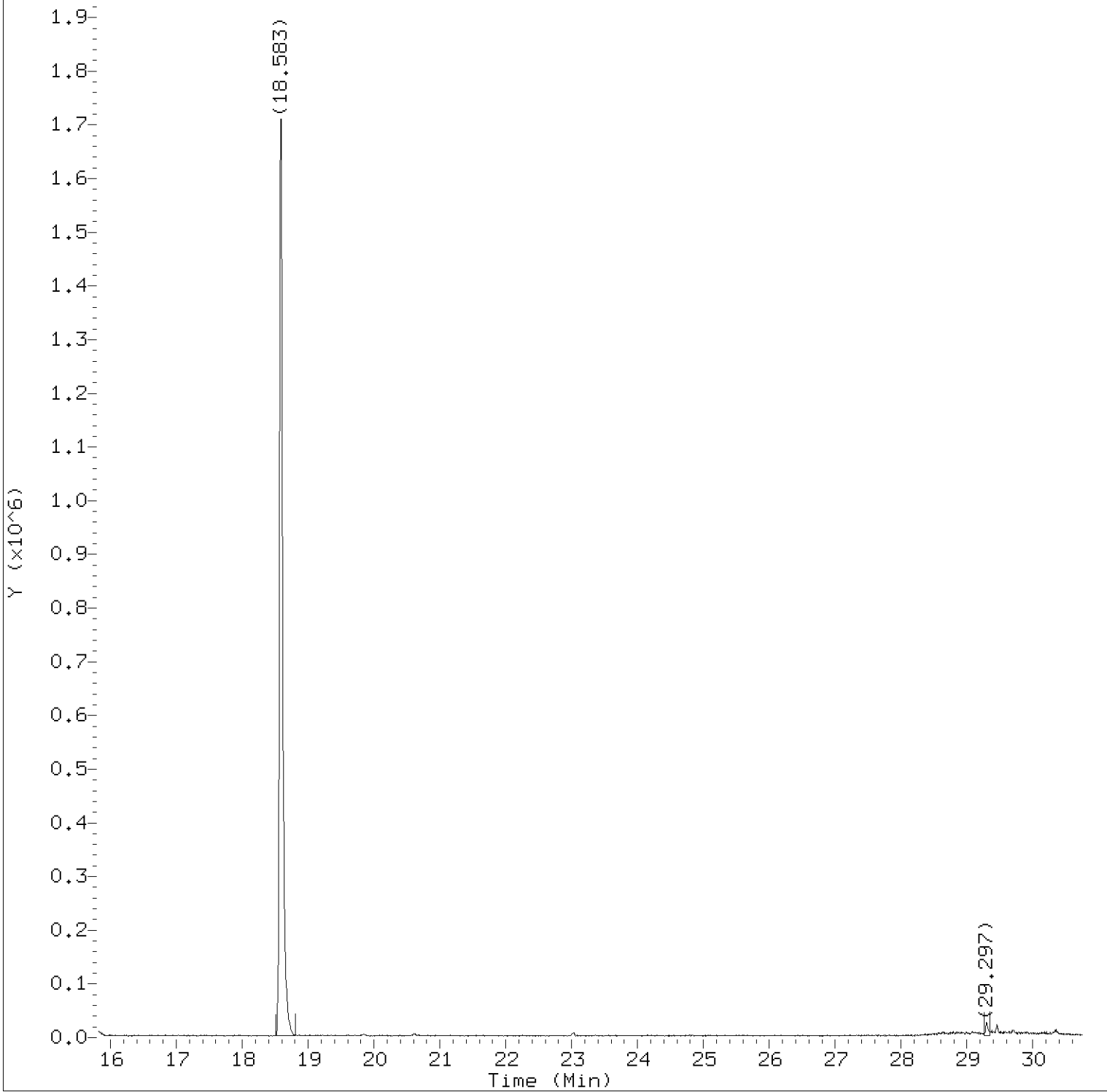
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1019

Lab Sample ID: cc1019

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00180.d  
Injection date and time: 10-SEP-2015 05:09

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1019

Lab Sample ID: cc1019

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00180.d  
Injection date and time: 10-SEP-2015 05:09

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1019

Lab Sample ID: cc1019

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.237	130	441214	10.000
51)*1,4-Difluorobenzene	(2)	9.233	114	1265785	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1330549	10.000

\* = Compound is an internal standard.

page 1 of 1

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.  
Target 3.5 esignature user ID: jbs01304

cc1011

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1011

Data file: /chem/HP09464.i/15sep09.b/ci00181.d Injection date and time: 10-SEP-2015 05:55
Data file Sample Info. Line: cc1011;;C1524630AC;cc1011;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

\* = Internal Standard area outside QC limits

Table with 11 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 43 target compounds and their detection status.

cc1011

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air cc1011

Data file: /chem/HP09464.i/15sep09.b/ci00181.d Injection date and time: 10-SEP-2015 05:55
Data file Sample Info. Line: cc1011;;C1524630AC;cc1011;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

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

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 99 compounds, all marked as 'Not Detected'.

cc1011

Lancaster Laboratories, Inc.  
Analysis Summary for GC/MS Volatiles in Air cc1011

Data file: /chem/HP09464.i/15sep09.b/ci00181.d Injection date and time: 10-SEP-2015 05:55  
Data file Sample Info. Line: cc1011;;C1524630AC;cc1011;0;3;BLANK; Instrument ID: HP09464.i Batch: C1524630AC  
Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Blank Data file reference: /chem/HP09464.i/15sep09.b/ci00167.d

Method used: /chem/HP09464.i/15sep09.b/to-15.m Sublist used: all  
Calibration date and time (Last Method Edit): 09-SEP-2015 16:55  
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15sep09.b/ci00164.d

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

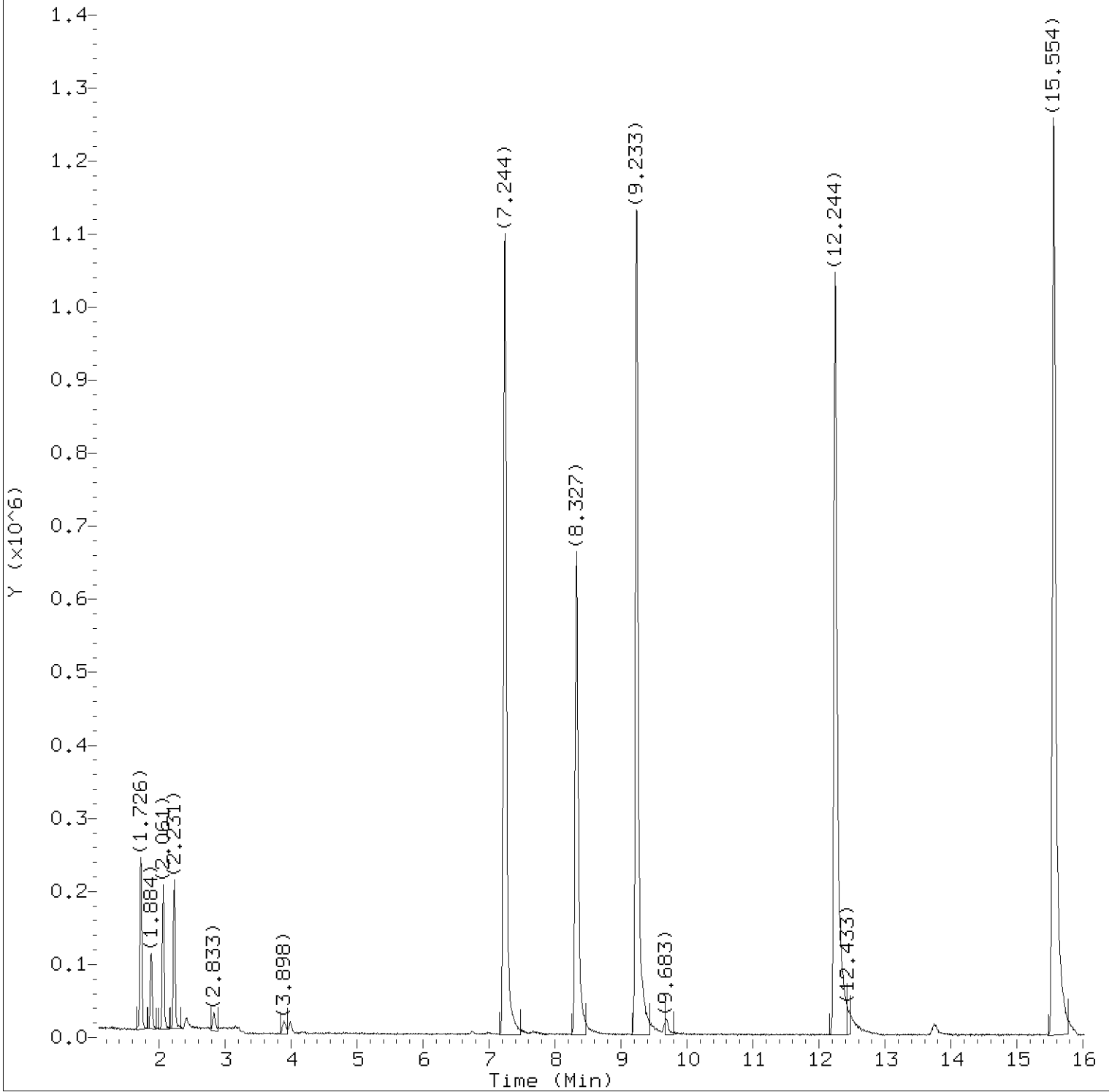
Sample Concentration Formula: On-Column Amount \* DF \* (Xa/Ya)\*(IVn/IVa) Dilution Factor (DF): 1  
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia  
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
100) 1,2,4-Trichlorobenzene	(3)			Not Detected					0.5	2
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 09/11/2015 at 13:17. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00181.d  
Injection date and time: 10-SEP-2015 05:55

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

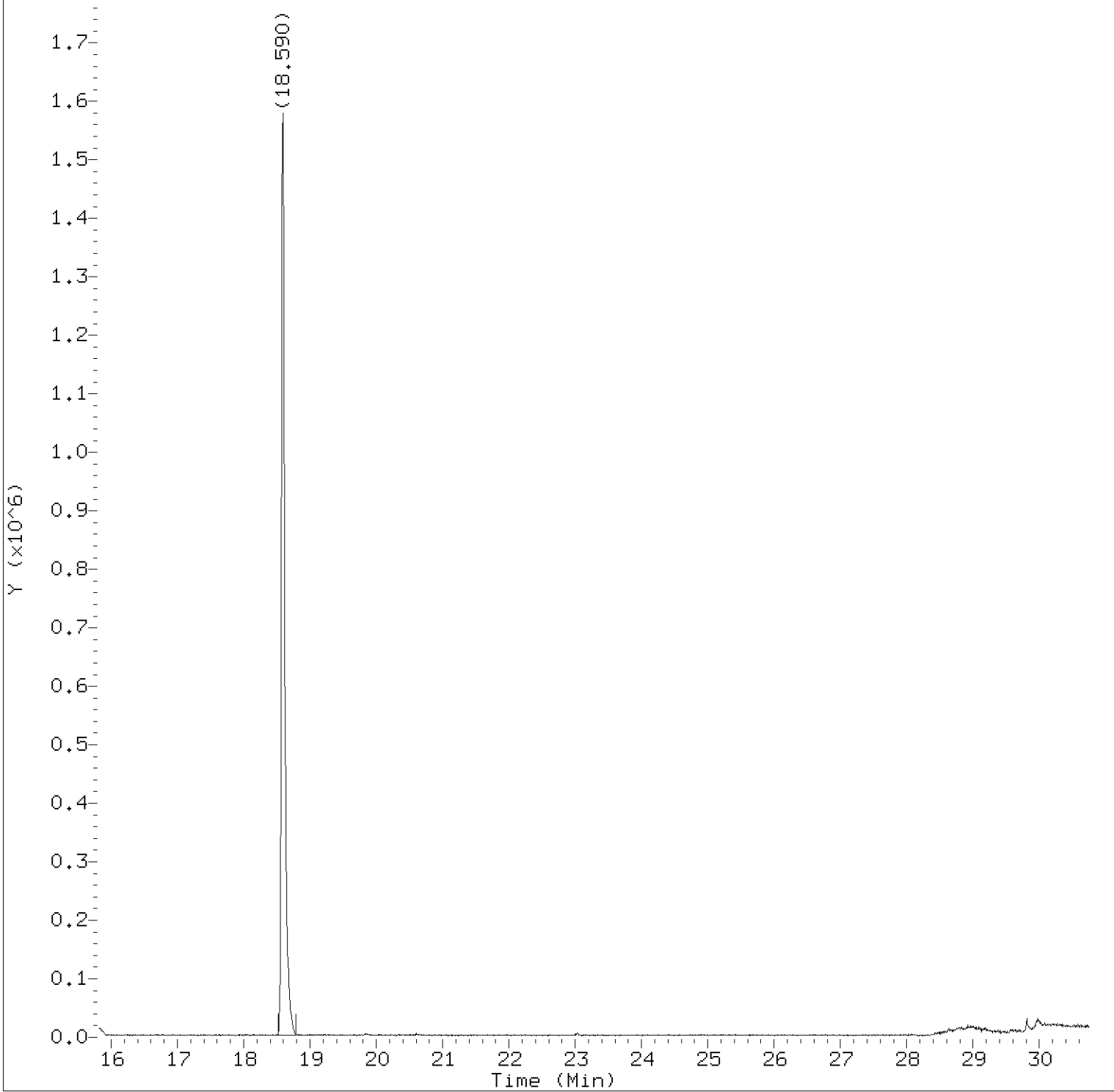
Sample Name: cc1011

Lab Sample ID: cc1011

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304





Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00181.d  
Injection date and time: 10-SEP-2015 05:55

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1011

Lab Sample ID: cc1011

Digitally signed by Jeffrey B. Smith  
on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep09.b/ci00181.d  
Injection date and time: 10-SEP-2015 05:55

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
Calibration date and time: 09-SEP-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1011

Lab Sample ID: cc1011

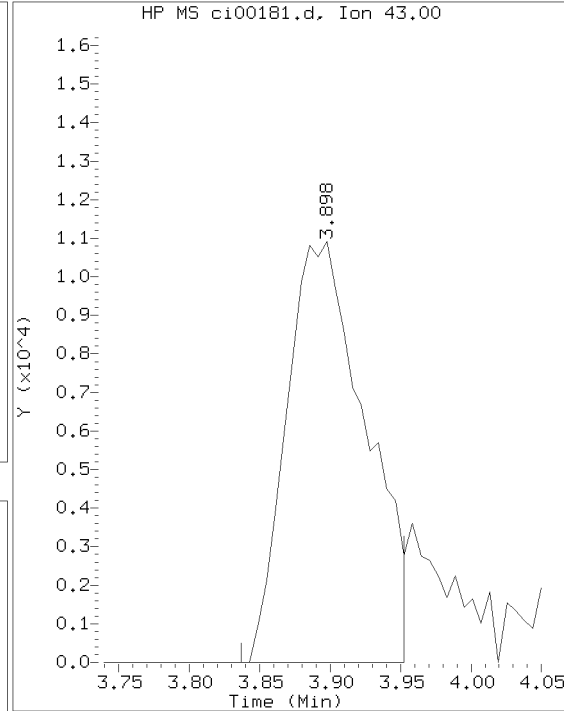
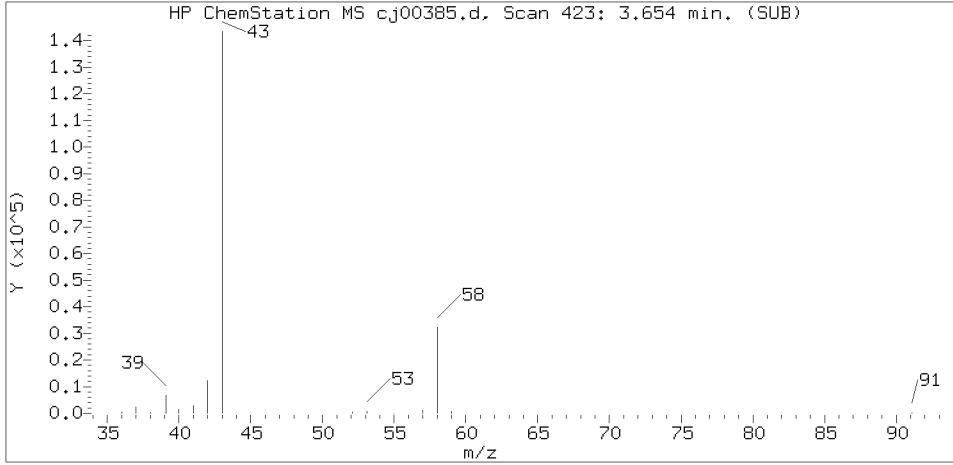
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.898	43	42417	0.562
40)*Bromochloromethane	(1)	7.244	130	445622	10.000
51)*1,4-Difluorobenzene	(2)	9.239	114	1261443	10.000
71)*Chlorobenzene-d5	(3)	15.554	117	1302809	10.000

\* = Compound is an internal standard.

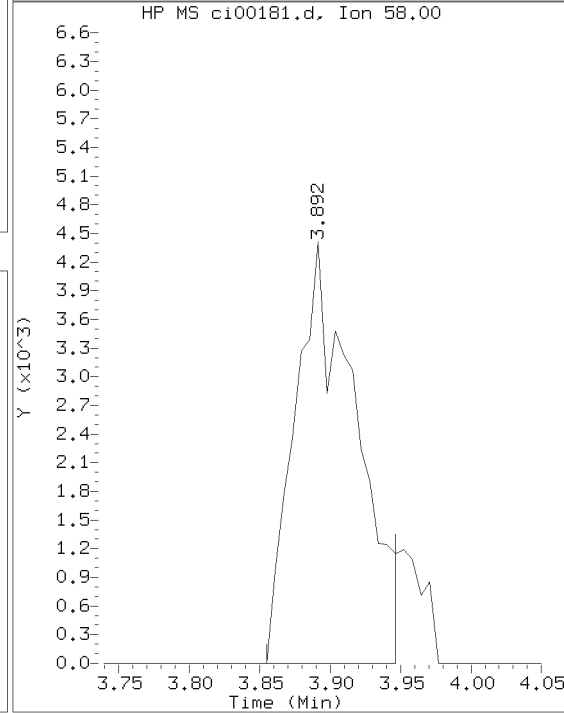
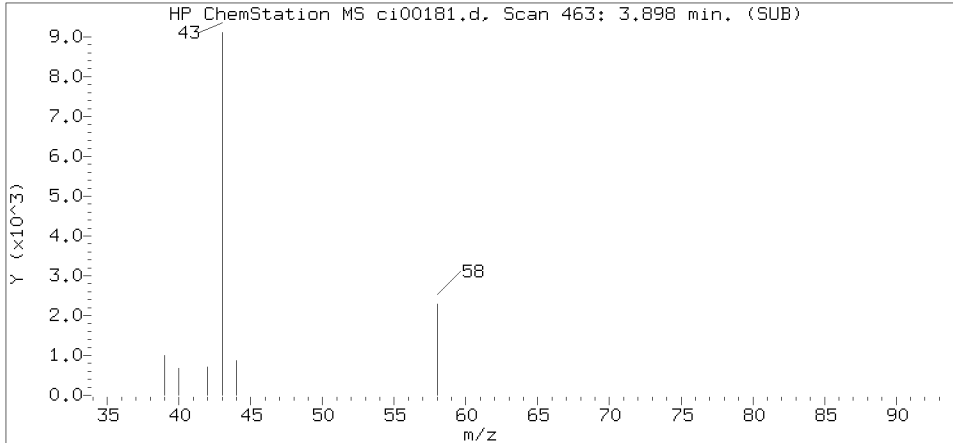
page 1 of 1

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on 09/10/2015 at 11:25.  
Target 3.5 esignature user ID: jbs01304

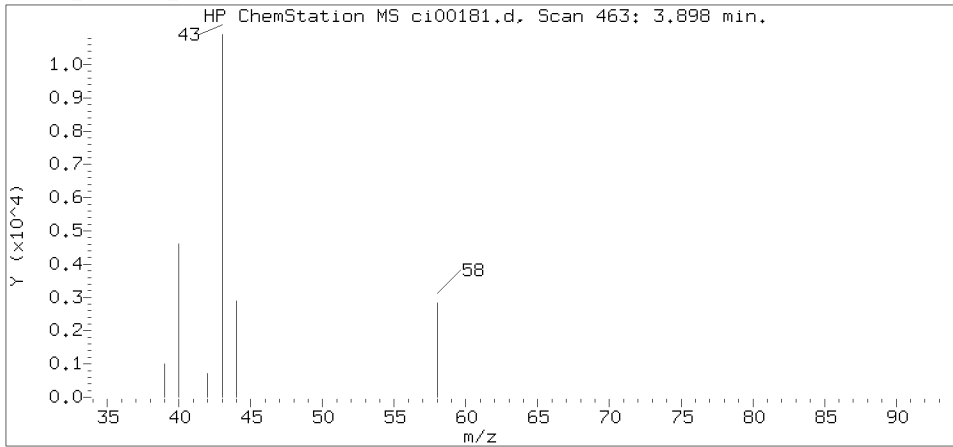
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15sep09.b/ci00181.d  
 Injection date and time: 10-SEP-2015 05:55

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep09.b/to-15.m  
 Calibration date and time: 09-SEP-2015 16:55  
 Date, time and analyst ID of latest file update: 10-Sep-2015 11:15 jbs01304

Sample Name: cc1011

Lab Sample ID: cc1011

Compound Number : 19  
 Compound Name : Acetone  
 Scan Number : 463  
 Retention Time (minutes): 3.898  
 Relative Retention Time : -0.01257  
 Quant Ion : 43.00  
 Area (flag) : 42417  
 Concentration (ppb(v)) : 0.5624

Digitally signed by Jeffrey B. Smith on 09/10/2015 at 11:25.

Target 3.5 esignature user ID: jbs01304  
 SSX23 Page 715 of 1243

runlog

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

Data Directory Path is - C:\msdchem\1\data\15sep22\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jeb07445	CI00449.D	VBKLC74	09/22/2015	10:57	C1525930AC	
jeb07445	CI00450.D	VBKLC74	09/22/2015	11:40	C1525930AC	
jeb07445	CI00451.D	VBKLC74	09/22/2015	12:24	C1525930AC	
jeb07445	CI00452.D	VBKLC74	09/22/2015	13:07	C1525930AC	
jeb07445	CI00460.D	50NGBFB	09/22/2015	14:07		
jeb07445	CI00461.D	50NGBFB	09/22/2015	14:43		
jeb07445	CI00462.D	VSTD001	09/22/2015	15:13		
jeb07445	CI00463.D	VSTD001	09/22/2015	15:55		
jeb07445	CI00464.D	VSTD002	09/22/2015	16:39		
jeb07445	CI00465.D	VSTD005	09/22/2015	17:21		
jeb07445	CI00466.D	VSTD010	09/22/2015	18:04		
jeb07445	CI00467.D	VSTD025	09/22/2015	18:47		
jeb07445	CI00468.D	VSTD010	09/22/2015	19:30		
jeb07445	CI00469.D	VSTD070	09/22/2015	20:15		
jeb07445	CI00470.D	VBKLC75	09/22/2015	21:07	C1526530AA	
jeb07445	CI00471.D	VBKLC75	09/22/2015	21:51	C1526530AA	
jeb07445	CI00472.D	LCSC75	09/22/2015	22:35	C1526530AA	
jeb07445	CI00473.D	LCSDC75	09/22/2015	23:20	C1526530AA	
jeb07445	CI00474.D	LCSC75	09/23/2015	00:06	C1526530AA	
jeb07445	CI00475.D	LCSC75	09/23/2015	00:51	C1526530AA	
jeb07445	CI00476.D	md1v0.5	09/23/2015	01:36	C1526530AA	
jeb07445	CI00477.D	md1v0.2	09/23/2015	02:19	C1526530AA	
jeb07445	CI00478.D	cc68	09/23/2015	03:03	C1526530AA	
jeb07445	CI00479.D	cc518	09/23/2015	03:48	C1526530AA	
jeb07445	CI00480.D	cc856	09/23/2015	04:32	C1526530AA	
jeb07445	CI00481.D	cc1028	09/23/2015	05:16	C1526530AA	
jeb07445	CI00482.D	cc1039	09/23/2015	06:02	C1526530AA	
jeb07445	CI00483.D	cc1160	09/23/2015	06:47	C1526530AA	
jeb07445	CI00484.D	cc1176	09/23/2015	07:33	C1526530AA	
jeb07445	CI00485.D	cc1243	09/23/2015	08:19	C1526530AA	
jeb07445	CI00486.D	cc328	09/23/2015	09:04	C1526530AA	
jeb07445	CI00487.D	cc517	09/23/2015	09:48	C1526530AA	
jeb07445	CI00488.D	cc524	09/23/2015	10:35	C1526530AA	



Lancaster Laboratories  
Environmental

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

SDG No.:

Lab File ID: ci00461.d

BFB Injection Date: 09/22/2015

Instrument ID: 09464

BFB Injection Time: 14:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	26.3
75	30.0% - 66.0% of mass 95	59.9
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.8
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	51.7
175	4.0% - 9.0% of mass 174	4.1 (7.9)
176	93.0% - 101.0% of mass 174	49.3 (95.4)
177	5.0% - 9.0% of mass 176	3.4 (6.9)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD001	ci00462.d	09/22/2015	15:13
VSTD002	ci00464.d	09/22/2015	16:39
VSTD005	ci00465.d	09/22/2015	17:21
VSTD025	ci00467.d	09/22/2015	18:47
VSTD010	ci00468.d	09/22/2015	19:30
VSTD070	ci00469.d	09/22/2015	20:15
VBLKC75	ci00471.d	09/22/2015	21:51
LCSC75	ci00472.d	09/22/2015	22:35
LCSDC75	ci00473.d	09/22/2015	23:20
mdlv0.5	ci00476.d	09/23/2015	01:36
mdlv0.2	ci00477.d	09/23/2015	02:19

SDG No.:

Instrument ID: 09464      Calibration Start Date: 09/22/2015      Calibration End Date: 09/22/2015  
 Calibration Start Time: 15:13      Calibration End Time: 20:15

LAB FILE IDs:  
 RRF 1 = ci00462.d    RRF 2 = ci00464.d    RRF 5 = ci00465.d    RRF 10 = ci00468.d    RRF 25 = ci00467.d  
 RRF 70 = ci00469.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
Propene	2.216	1.435	1.605	1.656	1.899	1.295	1.684	20	AVG
Dichlorodifluoromethane	5.854	4.036	4.141	3.595	3.834	****	4.292	21	AVG
Chlorodifluoromethane	5.161	3.493	3.377	3.004	3.217	****	3.651	24	AVG
Freon 114	5.292	3.463	3.631	3.240	3.625	****	3.850	21	AVG
Chloromethane	1.033	0.740	0.723	0.670	0.785	0.694	0.774	17	AVG
Vinyl Chloride	2.554	1.815	1.886	1.812	2.124	1.511	1.951	18	AVG
1,3-Butadiene	2.003	1.368	1.546	1.508	1.788	****	1.643	15	AVG
Bromomethane	2.084	1.440	1.400	1.269	1.520	****	1.543	20	AVG
Chloroethane	1.675	1.135	1.105	1.048	1.222	****	1.237	20	AVG
Bromoethene	1.634	1.103	1.156	1.148	1.441	1.301	1.297	16	AVG
Dichlorofluoromethane	6.725	4.684	4.346	3.938	4.202	****	4.779	23	AVG
Trichlorofluoromethane	6.395	4.144	4.214	3.627	3.979	****	4.472	25	AVG
Pentane	5.912	3.995	4.122	3.927	4.093	2.348	4.066	28	AVG
Ethanol	1.261	1.049	0.975	1.094	0.897	0.859	1.023	14	AVG
Freon123a	5.202	4.294	3.578	3.285	3.227	****	3.917	21	AVG
Acrolein	0.561	0.487	0.476	0.627	0.513	****	0.533	12	AVG
1,1-Dichloroethene	4.756	3.302	3.357	3.130	3.536	2.378	3.410	23	AVG
Freon 113	2.804	2.085	1.920	1.763	2.117	****	2.138	19	AVG
Acetone	3.021	2.139	1.963	2.320	1.359	1.487	2.048	30	AVG
Methyl Iodide	3.198	2.217	2.253	2.206	2.575	****	2.490	17	AVG
Carbon Disulfide	7.364	5.217	5.225	4.683	4.950	****	5.488	20	AVG
Isopropanol	3.934	2.834	2.664	2.970	3.045	2.624	3.011	16	AVG
Acetonitrile	1.659	1.286	0.605	0.695	0.477	0.555	0.880	55	AVG

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

SDG No.:

Instrument ID: 09464      Calibration Start Date: 09/22/2015      Calibration End Date: 09/22/2015  
 Calibration Start Time: 15:13      Calibration End Time: 20:15

LAB FILE IDs:

RRF 1 = ci00462.d    RRF 2 = ci00464.d    RRF 5 = ci00465.d    RRF 10 = ci00468.d    RRF 25 = ci00467.d  
 RRF 70 = ci00469.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
3-Chloropropene	1.065	0.807	0.776	0.756	0.881	****	0.857	15	AVG
Methylene Chloride	2.079	1.597	1.451	1.322	1.438	1.246	1.522	20	AVG
tert-Butyl Alcohol	2.711	2.522	2.469	2.622	2.764	2.648	2.623	4	AVG
Acrylonitrile	1.936	1.657	1.486	1.633	1.228	****	1.588	16	AVG
trans-1,2-Dichloroethene	5.650	4.257	3.852	3.338	3.582	2.430	3.851	28	AVG
Methyl t-Butyl Ether	3.085	2.687	2.772	3.521	2.215	2.658	2.823	16	AVG
Hexane	2.669	2.321	2.310	2.397	2.668	2.291	2.443	7	AVG
1,1-Dichloroethane	4.312	3.574	3.014	2.825	2.817	2.348	3.148	22	AVG
Vinyl Acetate	0.082	0.113	0.140	0.214	0.131	0.201	0.147	35	AVG*
Di-Isopropyl Ether	3.405	3.052	3.321	4.492	2.910	3.091	3.379	17	AVG
Ethyl Tert-Butyl Ether	2.122	1.877	2.032	3.000	2.033	2.560	2.271	19	AVG
cis-1,2-Dichloroethene	2.763	2.573	2.271	2.170	2.118	1.906	2.300	14	AVG
2-Butanone	0.359	0.352	0.370	0.490	0.321	0.416	0.385	16	AVG
Ethyl Acetate	0.215	0.198	0.197	0.280	0.175	0.262	0.221	19	AVG
Methyl Acrylate	1.708	1.550	1.645	2.274	1.280	1.831	1.715	19	AVG
Tetrahydrofuran	1.320	1.202	1.249	1.743	1.098	1.451	1.344	17	AVG
Chloroform	4.339	3.680	3.088	2.788	2.589	2.232	3.119	25	AVG
1,1,1-Trichloroethane	3.668	3.158	2.666	2.438	2.374	2.188	2.749	20	AVG
Cyclohexane	3.112	2.693	2.656	2.645	2.797	2.412	2.719	8	AVG
Carbon Tetrachloride	3.872	3.133	2.668	2.371	2.345	2.095	2.747	24	AVG
Benzene	1.388	1.213	1.042	1.039	1.124	0.867	1.112	16	AVG
1,2-Dichloroethane	0.982	0.811	0.675	0.631	0.650	0.563	0.719	21	AVG
Isooctane	2.025	1.960	1.879	2.008	2.087	1.314	1.879	15	AVG

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



Lancaster Laboratories  
Environmental

FORM 06  
VOLATILE ORGANICS IN AIR  
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/22/2015 Calibration End Date: 09/22/2015  
Calibration Start Time: 15:13 Calibration End Time: 20:15

LAB FILE IDs:

RRF 1 = ci00462.d RRF 2 = ci00464.d RRF 5 = ci00465.d RRF 10 = ci00468.d RRF 25 = ci00467.d  
RRF 70 = ci00469.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
Tert-Amyl Methyl Ether	0.532	0.443	0.448	0.635	0.517	0.647	0.537	16	AVG
Heptane	0.924	0.883	0.870	0.943	1.007	0.748	0.896	10	AVG
Trichloroethene	0.538	0.431	0.359	0.347	0.409	0.410	0.415	16	AVG
Ethyl Acrylate	0.484	0.435	0.462	0.677	0.543	0.616	0.536	18	AVG
1,2-Dichloropropane	0.564	0.468	0.435	0.463	0.426	0.496	0.475	11	AVG
Dibromomethane	0.349	0.291	0.245	0.241	0.265	0.318	0.285	15	AVG
1,4-Dioxane	0.134	0.129	0.142	0.166	0.180	****	0.151	15	AVG
Methyl Methacrylate	0.233	0.222	0.233	0.325	0.244	0.326	0.264	18	AVG
Bromodichloromethane	1.281	1.069	0.849	0.837	0.874	0.730	0.940	21	AVG
cis-1,3-Dichloropropene	0.516	0.447	0.478	0.547	0.538	0.601	0.521	10	AVG
4-Methyl-2-Pentanone	0.640	0.604	0.682	0.893	0.917	0.785	0.754	18	AVG
Toluene	1.183	0.988	0.995	1.030	0.850	0.825	0.978	13	AVG
Octane	1.011	1.029	1.166	1.287	1.237	0.887	1.103	14	AVG
trans-1,3-Dichloropropene	0.734	0.614	0.599	0.623	0.539	0.591	0.617	10	AVG
Ethyl Methacrylate	0.360	0.338	0.410	0.538	0.505	0.581	0.455	22	AVG
1,1,2-Trichloroethane	0.537	0.435	0.405	0.399	0.352	0.450	0.430	15	AVG
Tetrachloroethene	0.492	0.414	0.373	0.364	0.385	0.487	0.419	14	AVG
2-Hexanone	0.668	0.680	0.848	0.987	0.931	0.753	0.811	16	AVG
Dibromochloromethane	0.771	0.630	0.575	0.533	0.547	0.591	0.608	14	AVG
1,2-Dibromoethane	0.698	0.585	0.576	0.564	0.512	0.577	0.585	10	AVG
Chlorobenzene	0.989	0.804	0.734	0.764	0.690	0.745	0.788	13	AVG
1,1,1,2-Tetrachloroethane	0.528	0.409	0.383	0.379	0.351	0.454	0.417	15	AVG
Ethylbenzene	1.059	0.974	1.073	1.254	0.990	0.945	1.049	11	AVG

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



SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/22/2015 Calibration End Date: 09/22/2015

Calibration Start Time: 15:13 Calibration End Time: 20:15

LAB FILE IDs:

RRF 1 = ci00462.d RRF 2 = ci00464.d RRF 5 = ci00465.d RRF 10 = ci00468.d RRF 25 = ci00467.d  
RRF 70 = ci00469.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
m/p-Xylene	0.770	0.726	0.799	0.998	0.789	0.918	0.833	12	AVG
o-Xylene	0.841	0.775	0.867	1.061	0.837	0.939	0.887	11	AVG
Styrene	0.670	0.630	0.694	0.810	0.648	0.804	0.709	11	AVG
Bromoform	0.689	0.507	0.507	0.525	0.509	0.625	0.560	14	AVG
Cumene	0.988	0.811	0.955	1.219	0.965	0.996	0.989	13	AVG
Bromobenzene	0.411	0.351	0.345	0.375	0.332	0.453	0.378	12	AVG
1,1,2,2-Tetrachloroethane	1.182	0.990	0.948	1.018	0.801	0.819	0.960	15	AVG
1,2,3-Trichloropropane	0.322	0.230	0.221	0.240	0.187	0.259	0.243	19	AVG
n-Propylbenzene	0.294	0.252	0.274	0.345	0.274	****	0.288	12	AVG
2-Chlorotoluene	0.356	0.293	0.297	0.327	0.279	****	0.310	10	AVG
4-Ethyltoluene	1.095	0.949	1.069	1.298	1.013	1.011	1.072	11	AVG
1,3,5-Trimethylbenzene	0.873	0.761	0.880	1.074	0.858	0.911	0.893	11	AVG
Alpha Methyl Styrene	0.421	0.371	0.442	0.533	0.426	****	0.439	13	AVG
tert-Butylbenzene	0.801	0.658	0.755	0.934	0.761	0.909	0.803	13	AVG
1,2,4-Trimethylbenzene	1.028	0.876	0.953	1.121	0.902	0.936	0.969	9	AVG
sec-Butylbenzene	1.287	1.081	1.247	1.527	1.254	****	1.279	13	AVG
1,3-Dichlorobenzene	0.890	0.694	0.683	0.699	0.608	0.757	0.722	13	AVG
1,4-Dichlorobenzene	0.855	0.687	0.691	0.722	0.630	0.817	0.734	12	AVG
p-Isopropyltoluene	1.050	0.871	0.989	1.227	1.039	1.110	1.048	11	AVG
Benzyl Chloride	1.186	1.006	1.081	1.240	0.980	1.106	1.100	9	AVG
1,2-Dichlorobenzene	0.817	0.629	0.626	0.666	0.558	0.711	0.668	13	AVG
n-Butylbenzene	1.255	1.008	1.131	1.391	1.154	0.961	1.150	14	AVG
Hexachloroethane	0.576	0.452	0.452	0.468	0.460	0.569	0.496	12	AVG

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

SDG No.:

Instrument ID: 09464 Calibration Start Date: 09/22/2015 Calibration End Date: 09/22/2015

Calibration Start Time: 15:13 Calibration End Time: 20:15

LAB FILE IDs:

RRF 1 = ci00462.d RRF 2 = ci00464.d RRF 5 = ci00465.d RRF 10 = ci00468.d RRF 25 = ci00467.d  
RRF 70 = ci00469.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
1,2-Dibromo-3-chloropropane	0.375	0.303	0.291	0.345	0.275	****	0.318	13	AVG
1,2,4-Trichlorobenzene	0.380	0.343	0.352	0.377	0.318	0.259	0.338	13	AVG
Hexachlorobutadiene	0.363	0.261	0.311	0.385	0.330	****	0.330	14	AVG
Naphthalene	0.919	0.987	1.011	1.074	0.804	****	0.959	11	AVG

Average % RSD: 16

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

SDG No.:

Instrument ID: 09464      LCS File ID: ci00472.d      LCSD File ID: ci00473.d  
 Batch: C1526530AA      LCS Injected: 09/22/2015      LCSD Injected: 09/22/2015  
 Method: EPA TO-15      LCS Client ID: LCSC75      LCSD Client ID: LCSDC75  
 Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Propene	11.00	10.94	11.22	99	102	41-129	3	25	YES
Dichlorodifluoromethane	10.00	9.14	9.68	91	97	61-149	6	25	YES
Freon 114	10.20	9.47	9.96	93	98	63-123	5	25	YES
Chloromethane	10.30	8.37	8.82	81	86	54-118	5	25	YES
Vinyl Chloride	10.20	10.27	10.57	101	104	70-130	3	25	YES
1,3-Butadiene	10.50	10.15	10.46	97	100	57-138	3	25	YES
Bromomethane	10.10	8.64	9.04	86	89	70-130	4	25	YES
Chloroethane	10.00	8.80	9.02	88	90	63-119	3	25	YES
Trichlorofluoromethane	10.00	8.62	8.96	86	90	70-130	4	25	YES
Ethanol	10.60	7.73	7.65	73	72	10-175	1	25	YES
Acrolein	10.90	10.57	8.96	97	82	43-141	16	25	YES
1,1-Dichloroethene	10.60	10.16	10.15	96	96	61-128	0	25	YES
Freon 113	10.50	8.73	8.73	83	83	63-114	0	25	YES
Acetone	10.70	9.76	9.57	91	89	61-134	2	25	YES
Carbon Disulfide	10.20	9.23	9.31	91	91	55-121	1	25	YES
Isopropanol	11.00	10.23	9.69	93	88	55-152	5	25	YES
Methylene Chloride	10.60	10.22	9.79	96	92	70-130	4	25	YES
trans-1,2-Dichloroethene	10.50	9.18	8.82	87	84	66-121	4	25	YES
Methyl t-Butyl Ether	10.70	9.92	8.96	93	84	52-129	10	25	YES
Hexane	10.80	11.10	11.09	103	103	63-117	0	25	YES
1,1-Dichloroethane	10.50	9.82	9.68	94	92	67-124	1	25	YES
Vinyl Acetate	10.80	11.76	10.99	109	102	45-162	7	25	YES
cis-1,2-Dichloroethene	10.60	10.08	9.92	95	94	65-121	2	25	YES
2-Butanone	10.80	10.69	10.82	99	100	60-135	1	25	YES
Ethyl Acetate	10.60	8.27	8.19	78	77	51-131	1	25	YES
Tetrahydrofuran	10.90	10.51	10.57	96	97	53-134	1	25	YES
Chloroform	10.60	9.53	9.35	90	88	70-130	2	25	YES
1,1,1-Trichloroethane	10.50	9.46	9.53	90	91	70-130	1	25	YES
Cyclohexane	10.60	10.50	10.90	99	103	63-123	4	25	YES
Carbon Tetrachloride	10.40	9.35	9.62	90	93	70-130	3	25	YES
Benzene	10.50	9.91	10.23	94	97	70-130	3	25	YES
1,2-Dichloroethane	10.50	9.47	9.68	90	92	70-130	2	25	YES
Heptane	10.70	11.09	11.31	104	106	56-123	2	25	YES
Trichloroethene	10.50	8.64	8.98	82	86	70-130	4	25	YES
1,2-Dichloropropane	10.70	9.77	9.15	91	86	70-130	6	25	YES
1,4-Dioxane	10.50	11.23	11.85	107	113	43-149	5	25	YES

COMMENTS:

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SDG No.:

Instrument ID: 09464      LCS File ID: ci00472.d      LCSD File ID: ci00473.d  
 Batch: C1526530AA      LCS Injected: 09/22/2015      LCSD Injected: 09/22/2015  
 Method: EPA TO-15      LCS Client ID: LCSC75      LCSD Client ID: LCSDC75  
 Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb (v))	LCSD CONC. (ppb (v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Methyl Methacrylate	10.30	8.85	9.48	86	92	59-146	7	25	YES
Bromodichloromethane	10.50	8.97	9.05	85	86	62-129	1	25	YES
cis-1,3-Dichloropropene	10.90	11.97	11.32	110	104	64-136	6	25	YES
4-Methyl-2-Pentanone	10.80	10.76	11.29	100	105	53-140	5	25	YES
Toluene	10.70	11.58	10.23	108	96	70-130	12	25	YES
trans-1,3-Dichloropropene	10.00	10.02	9.05	100	90	61-126	10	25	YES
1,1,2-Trichloroethane	10.70	9.50	8.74	89	82	59-131	8	25	YES
Tetrachloroethene	10.40	9.40	8.97	90	86	70-130	5	25	YES
2-Hexanone	11.00	12.57	12.43	114	113	47-150	1	25	YES
Dibromochloromethane	10.80	9.11	8.66	84	80	65-127	5	25	YES
1,2-Dibromoethane	10.50	11.12	9.81	106	93	65-126	12	25	YES
Chlorobenzene	10.80	10.48	9.51	97	88	70-130	10	25	YES
Ethylbenzene	10.80	10.28	10.17	95	94	70-130	1	25	YES
m/p-Xylene	21.20	19.91	19.59	94	92	70-130	2	25	YES
o-Xylene	10.90	10.14	10.01	93	92	70-130	1	25	YES
Xylene (total)	32.10	30.05	29.60	94	92	70-130	1	25	YES
Styrene	10.80	9.64	9.63	89	89	64-130	0	25	YES
Bromoform	10.60	8.64	8.57	82	81	64-141	1	25	YES
1,1,2,2-Tetrachloroethane	10.90	8.67	8.90	80	82	58-133	3	25	YES
4-Ethyltoluene	10.70	8.91	9.03	83	84	59-126	1	25	YES
1,3,5-Trimethylbenzene	10.70	9.22	9.39	86	88	61-132	2	25	YES
1,2,4-Trimethylbenzene	10.80	8.38	8.43	78	78	60-128	1	25	YES
1,3-Dichlorobenzene	10.90	7.81	7.86	72	72	63-125	1	25	YES
1,4-Dichlorobenzene	10.70	7.68	7.66	72	72	63-127	0	25	YES
Benzyl Chloride	10.30	8.20	8.22	80	80	50-160	0	25	YES
1,2-Dichlorobenzene	10.80	7.56	7.67	70	71	62-132	1	25	YES
1,2,4-Trichlorobenzene	11.00	7.14	6.70	65	61	37-119	6	25	YES
Hexachlorobutadiene	11.00	6.99	6.59	64	60	43-120	6	25	YES
Naphthalene	10.40	8.02	7.63	77	73	35-153	5	25	YES

COMMENTS:

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Date : 22-SEP-2015 14:43

Client ID: 50NGBFB

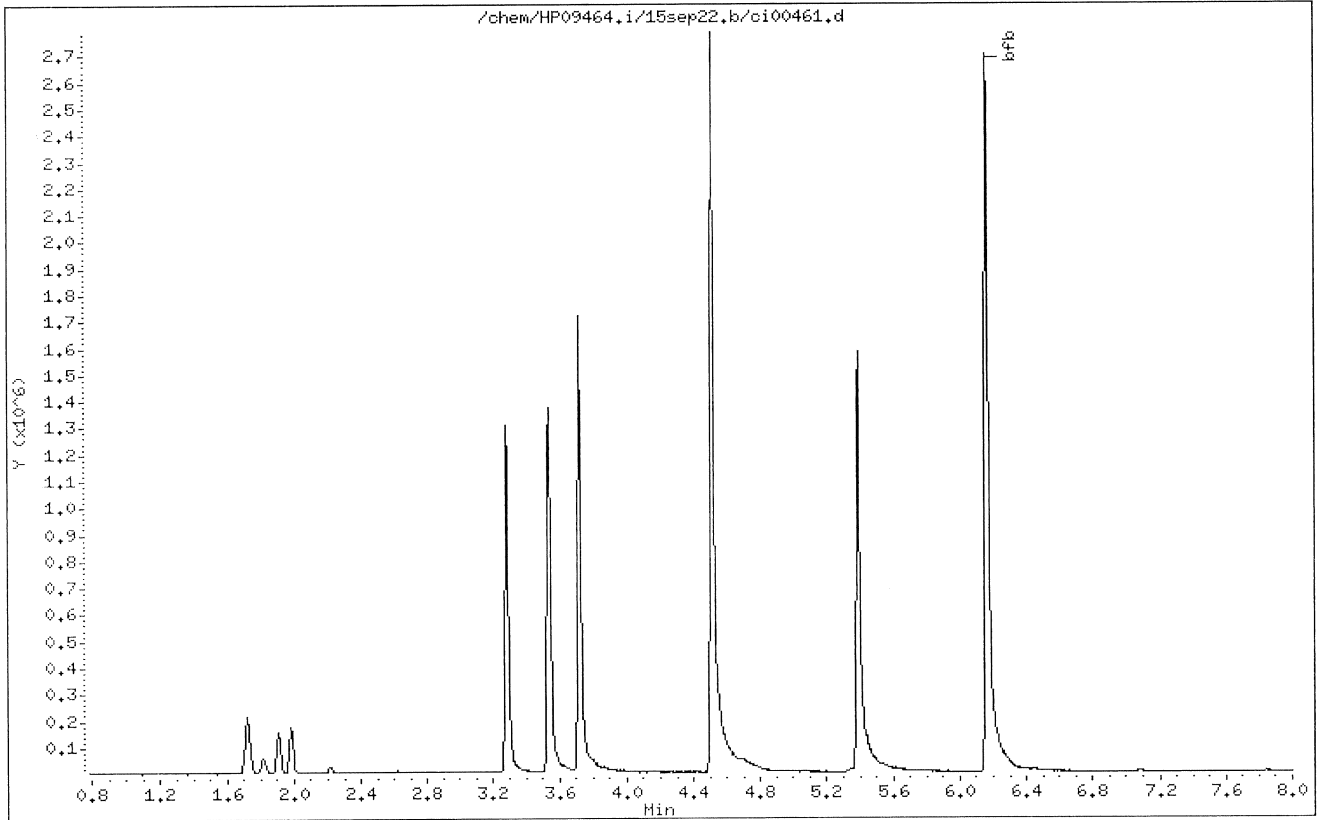
Instrument: HP09464.i

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

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:31.  
Target 3.5 esignature user ID: jbs01304

Date : 22-SEP-2015 14:43

Client ID: 50NGBFB

Instrument: HP09464.i

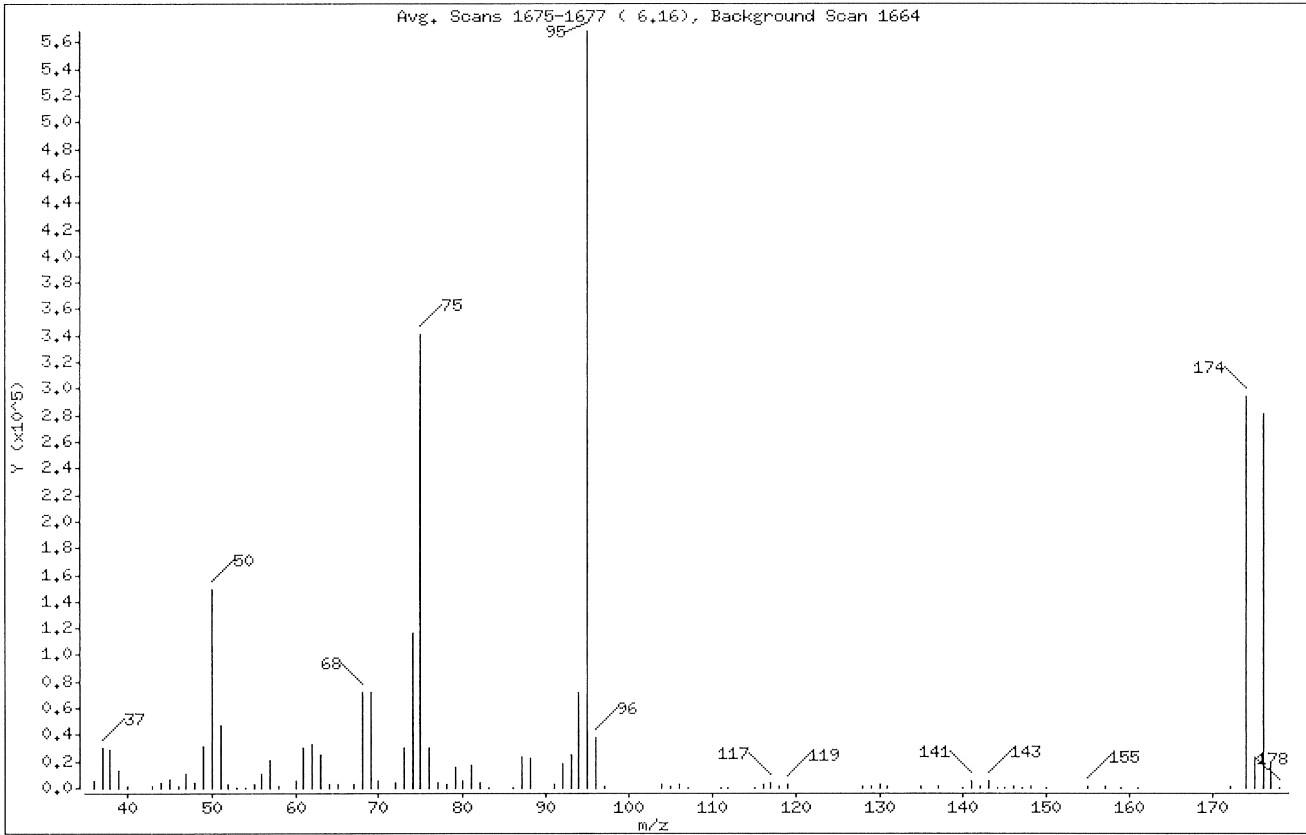
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.25
75	30.00 - 66.00% of mass 95	59.93
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 ( 0.00)
174	50.00 - 120.00% of mass 95	51.69
175	4.00 - 9.00% of mass 174	4.07 ( 7.88)
176	93.00 - 101.00% of mass 174	49.31 ( 95.40)
177	5.00 - 9.00% of mass 176	3.38 ( 6.86)

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:31.  
Target 3.5 esignature user ID: jbs01304

Date : 22-SEP-2015 14:43

Client ID: 50NGBFB

Instrument: HP09464.i

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

Operator: jeb07445

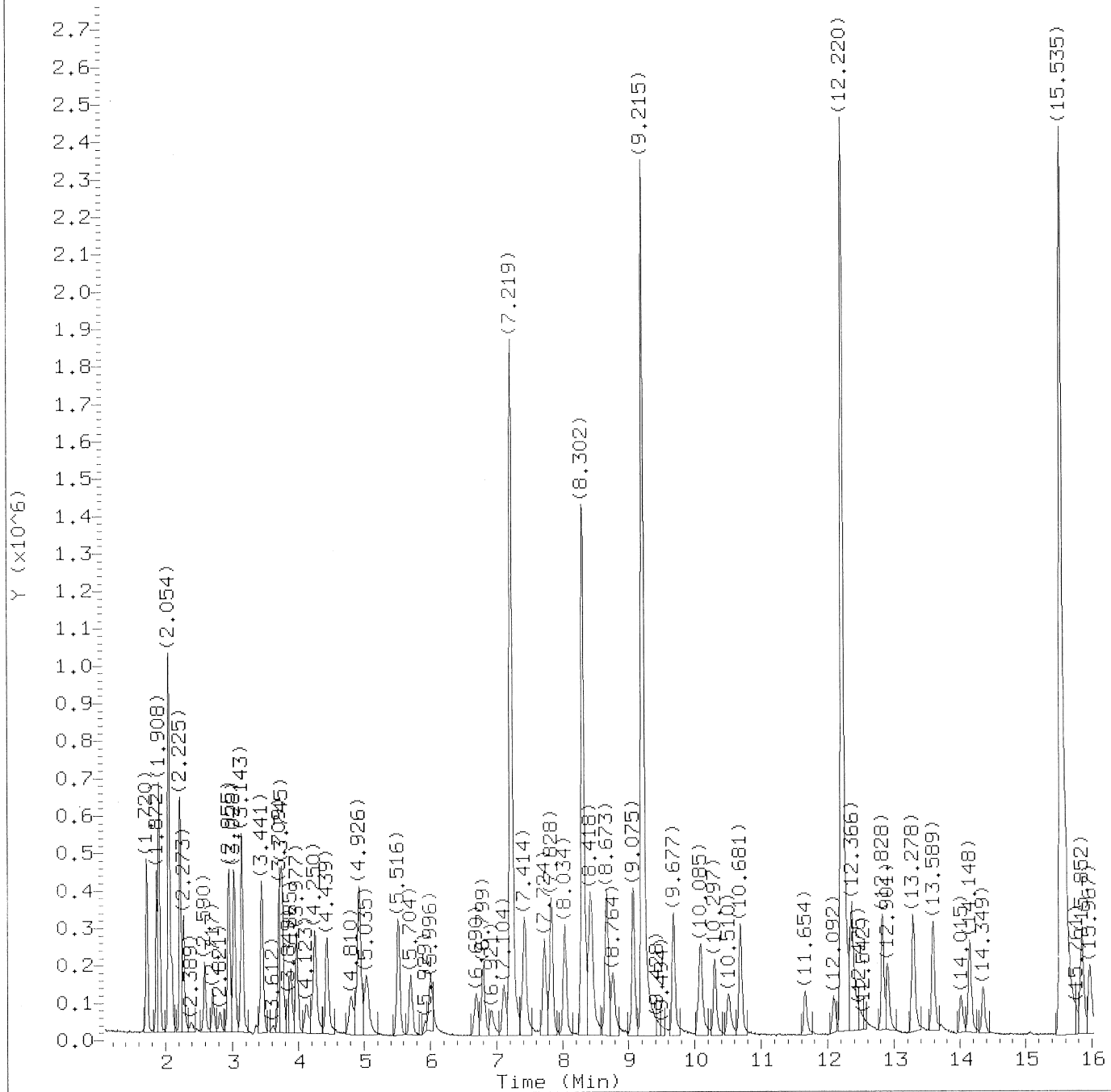
Column phase: DB-624

Column diameter: 0.25

Data File: ci00461.d  
 Spectrum: Avg. Scans 1675-1677 ( 6.16), Background Scan 1664  
 Location of Maximum: 95.00  
 Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4936	62.00	32488	91.00	2081	137.00	661
37.00	29944	63.00	25208	92.00	17728	140.00	386
38.00	28320	64.00	2797	93.00	25400	141.00	5285
39.00	12496	65.00	2064	94.00	72088	142.00	813
40.00	723	67.00	2173	95.00	568320	143.00	5439
43.00	657	68.00	72032	96.00	38464	144.00	357
44.00	3740	69.00	71648	97.00	1391	145.00	438
45.00	6500	70.00	5134	104.00	2292	146.00	661
46.00	688	72.00	3609	105.00	932	147.00	363
47.00	10043	73.00	30264	106.00	2289	148.00	1001
48.00	3984	74.00	116216	107.00	442	150.00	365
49.00	30736	75.00	340608	111.00	558	155.00	1046
50.00	149184	76.00	29608	112.00	192	157.00	774
51.00	47176	77.00	3871	115.00	412	159.00	488
52.00	2391	78.00	2538	116.00	2256	161.00	647
53.00	396	79.00	15523	117.00	4342	172.00	1442
54.00	205	80.00	4720	118.00	1682	174.00	293760
55.00	2188	81.00	16366	119.00	2908	175.00	23136
56.00	10165	82.00	3828	128.00	1660	176.00	280256
57.00	20304	83.00	194	129.00	783	177.00	19216
58.00	1021	86.00	252	130.00	1975	178.00	173
60.00	5684	87.00	23472	131.00	733		
61.00	30312	88.00	22720	135.00	921		

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Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

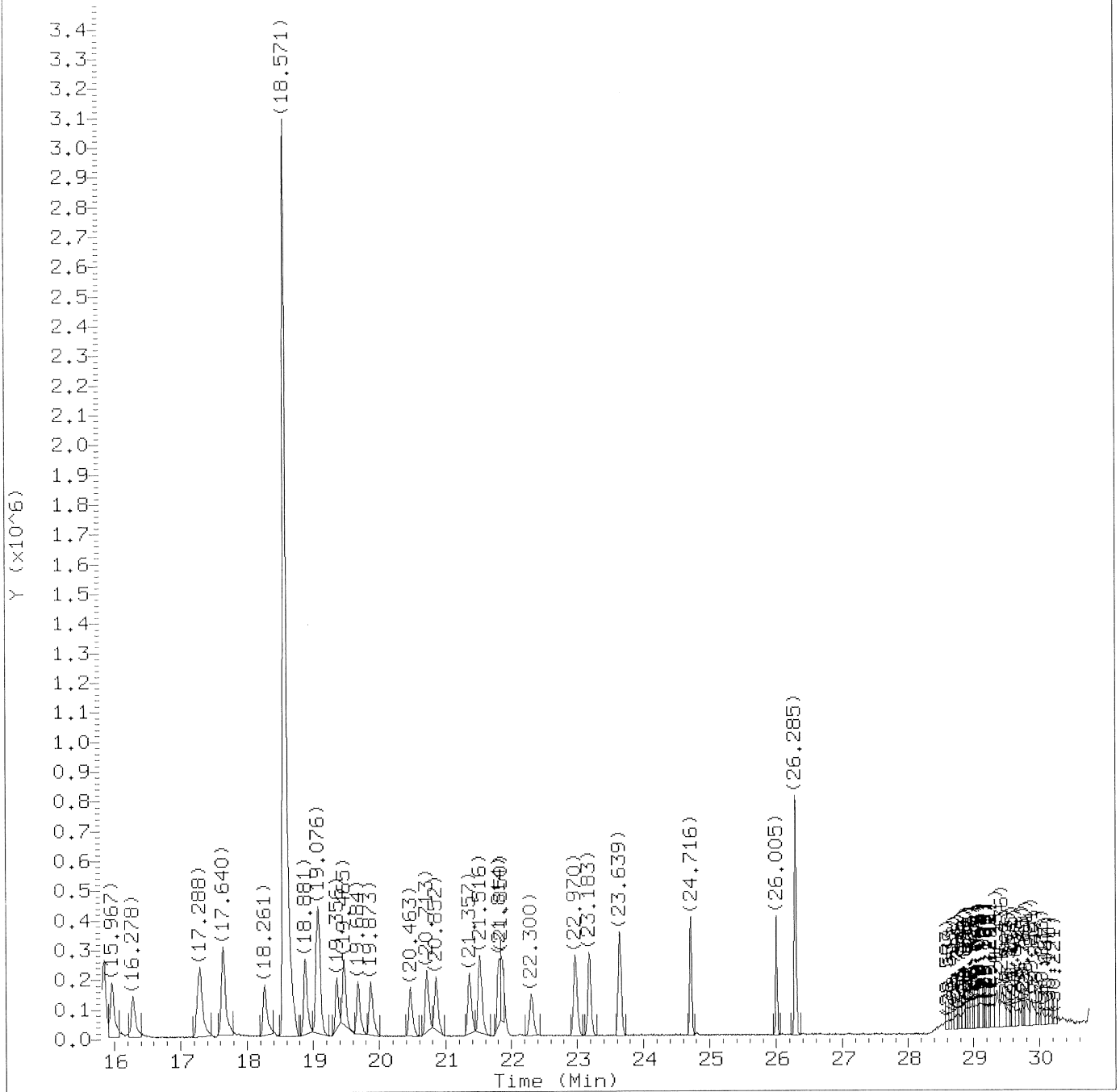
Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304





Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	160431	1.342
2) Dichlorodifluoromethane	(1)	1.902	85	419663	1.377
3) Chlorodifluoromethane	(1)	1.914	51	392018	1.513
4) Freon 114	(1)	2.048	85	386954	1.416
5) Chloromethane	(1)	2.097	52	75530	1.374
6) Vinyl Chloride	(1)	2.225	62	183123	1.323
7) 1,3-Butadiene	(1)	2.273	54	145046	1.244
8) Bromomethane	(1)	2.590	94	145001	1.324
9) Chloroethane	(1)	2.717	64	115311	1.313
10) Bromoethene	(1)	2.936	106	122916	1.335
11) Dichlorofluoromethane	(1)	2.955	67	501238	1.478
12) Trichlorofluoromethane	(1)	3.034	101	458466	1.444
13) Pentane	(1)	3.143	43	440656	1.527
14) Ethanol	(1)	3.374	45	51901M	0.715
15) Freon123a	(1)	3.441	67	406208	1.461
16) Acrolein	(1)	3.599	56	29856M	0.790
17) 1,1-Dichloroethene	(1)	3.703	61	337585	1.395
18) Freon 113	(1)	3.745	103	193037	1.272
19) Acetone	(1)	3.849	43	229436MA	1.578
20) Methyl Iodide	(1)	3.891	142	238343	1.349
21) Carbon Disulfide	(1)	3.977	76	522715	1.342
22) Isopropanol	(1)	4.123	45	268061M	1.254
23) Acetonitrile	(1)	4.232	40	116558	1.867
24) 3-Chloropropene	(1)	4.256	76	83187	1.367
25) Methylene Chloride	(1)	4.445	84	162349	1.503
26) tert-Butyl Alcohol	(1)	4.810	59	211660M	1.137
27) Acrylonitrile	(1)	4.895	53	136052	1.207
28) trans-1,2-Dichloroethene	(1)	4.932	61	401071	1.467
29) Methyl t-Butyl Ether	(1)	5.035	73	223334	1.115
30) Hexane	(1)	5.516	57	193222	1.114
31) 1,1-Dichloroethane	(1)	5.704	63	306119	1.370
32) Vinyl Acetate	(1)	5.929	86	4428	0.425
33) Di-Isopropyl Ether	(1)	6.009	45	251365	1.048
36) 1,2-Dichloroethene (total)	(1)		61	606997	2.728
34) Ethyl Tert-Butyl Ether	(1)	6.690	59	152162	0.944
35) cis-1,2-Dichloroethene	(1)	6.793	61	205926	1.261
37) 2-Butanone	(1)	6.915	72	26480M	0.970
38) Ethyl Acetate	(1)	7.104	70	16806M	1.070

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

Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.116	55	126108	1.036
40) *Bromochloromethane	(1)	7.219	130	709842	10.000
41) Tetrahydrofuran	(1)	7.402	42	93664	0.982
42) Chloroform	(1)	7.426	83	311094	1.405
43) 1,1,1-Trichloroethane	(1)	7.730	97	268190	1.375
44) Cyclohexane	(1)	7.828	56	227548	1.179
45) Carbon Tetrachloride	(1)	8.040	117	285880	1.466
46) Benzene	(2)	8.418	78	371737	1.323
47) 1,2-Dichloroethane	(2)	8.448	62	257971	1.421
48) Isooctane	(2)	8.667	57	537236	1.132
49) Tert-Amyl Methyl Ether	(2)	8.764	73	143716	1.060
50) Heptane	(2)	9.075	43	245084	1.083
51) *1,4-Difluorobenzene	(2)	9.215	114	2526267	10.000
52) Trichloroethene	(2)	9.683	130	139878	1.333
53) Ethyl Acrylate	(2)	10.048	55	132114	0.975
54) 1,2-Dichloropropane	(2)	10.091	63	149634	1.246
55) Dibromomethane	(2)	10.304	174	92638	1.288
57) Methyl Methacrylate	(2)	10.510	69	59383	0.891
56) 1,4-Dioxane	(2)	10.517	88	34944M	0.919
58) Bromodichloromethane	(2)	10.681	83	333237	1.403
59) cis-1,3-Dichloropropene	(2)	11.654	75	123801	0.941
60) 4-Methyl-2-Pentanone	(2)	12.092	43	164811	0.866
61) Toluene	(3)	12.366	91	293224	1.282
64) 1,3-Dichloropropene (total)	(3)		75	297044	2.142
62) Octane	(3)	12.828	43	243408	0.944
63) trans-1,3-Dichloropropene	(3)	12.907	75	173243	1.202
65) Ethyl Methacrylate	(3)	13.278	69	84966	0.798
66) 1,1,2-Trichloroethane	(3)	13.278	97	133124	1.325
67) Tetrachloroethene	(3)	13.595	166	123200M	1.257
68) 2-Hexanone	(3)	14.015	43	170157	0.897
69) Dibromochloromethane	(3)	14.148	127	176756	1.243
70) 1,2-Dibromoethane	(3)	14.349	107	163329	1.193
71) *Chlorobenzene-d5	(3)	15.535	117	2338421	10.000
72) Chlorobenzene	(3)	15.602	112	245193	1.331
73) 1,1,1,2-Tetrachloroethane	(3)	15.858	131	130931	1.341
74) Ethylbenzene	(3)	15.973	91	262434	1.070
75) m/p-Xylene	(3)	16.284	91	176422	0.905
77) Xylene (total)	(3)		91	386925	1.920

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

Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001

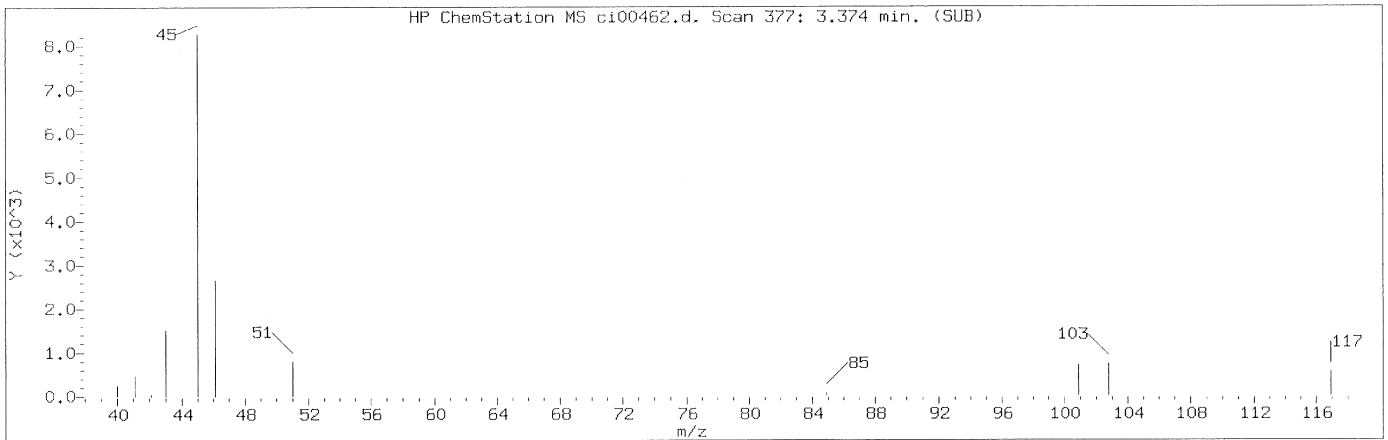
Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.263	91	210503	1.015
78) Styrene	(3)	17.294	104	162828	0.982
79) Bromoform	(3)	17.646	173	161191	1.231
80) Cumene	(3)	18.267	105	240321	1.039
81) Bromobenzene	(3)	18.881	156	101913	1.153
82) 1,1,2,2-Tetrachloroethane	(3)	19.058	83	295673	1.318
83) 1,2,3-Trichloropropane	(3)	19.094	110	76868	1.351
84) n-Propylbenzene	(3)	19.356	120	68820	1.022
85) 2-Chlorotoluene	(3)	19.465	126	85700	1.182
86) 4-Ethyltoluene	(3)	19.678	105	258676	1.031
87) 1,3,5-Trimethylbenzene	(3)	19.879	105	210193	1.007
88) Alpha Methyl Styrene	(3)	20.469	118	97387	0.950
89) tert-Butylbenzene	(3)	20.713	119	191129	1.018
90) 1,2,4-Trimethylbenzene	(3)	20.852	105	245167	1.082
91) sec-Butylbenzene	(3)	21.357	105	304060	1.016
92) 1,3-Dichlorobenzene	(3)	21.516	146	218636	1.295
93) 1,4-Dichlorobenzene	(3)	21.808	146	203859	1.188
94) p-Isopropyltoluene	(3)	21.868	119	247957	1.012
95) Benzyl Chloride	(3)	22.294	91	235674	0.916
96) 1,2-Dichlorobenzene	(3)	22.970	146	192932	1.235
97) n-Butylbenzene	(3)	23.183	91	299240	1.113
98) Hexachloroethane	(3)	23.639	117	146718	1.265
99) 1,2-Dibromo-3-chloropropane	(3)	24.709	157	84077	1.132
100) 1,2,4-Trichlorobenzene	(3)	26.005	180	85262	1.078
101) Hexachlorobutadiene	(3)	26.285	225	83933	1.088
102) Naphthalene	(3)	26.297	128	223616	0.997

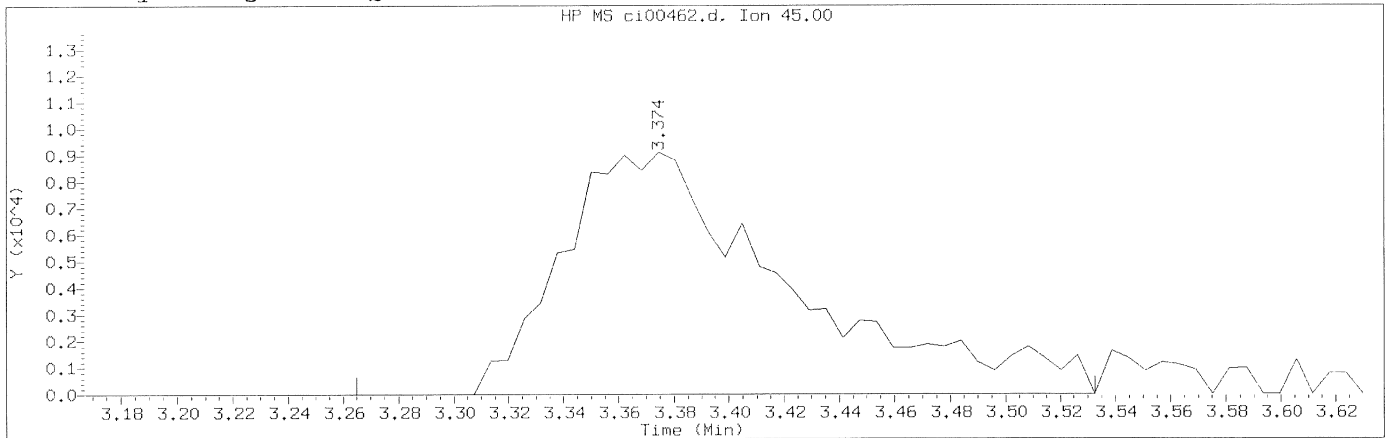
page 3 of 3

Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d                      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 15:13                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001                      Lab Sample ID: VSTD001

Compound Number                      : 14  
Compound Name                         : Ethanol  
Scan Number                            : 377  
Retention Time (minutes): 3.374  
Quant Ion                                : 45.00  
Area (flag)                             : 51901M  
Concentration (ppb(v))                : 0.7151  
Integration start scan                 : 358                      Integration stop scan: 402  
Y at integration start                 : 0                        Y at integration end: 0

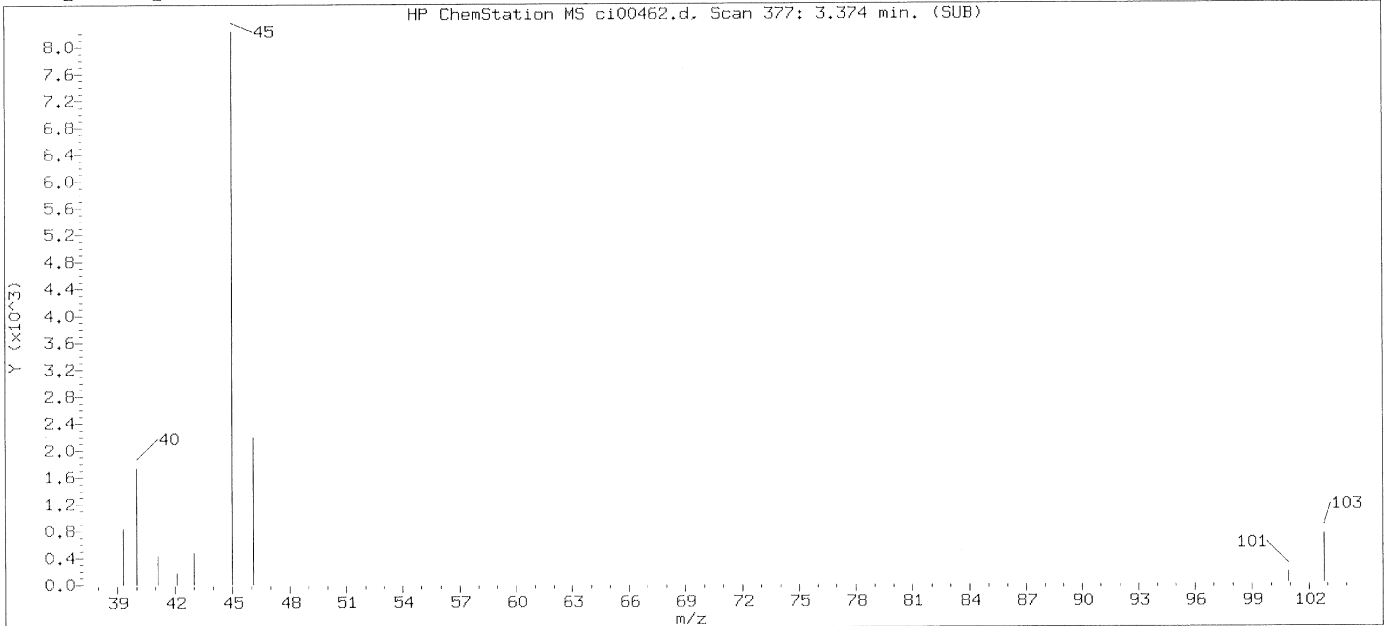
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.374 minutes signature user ID: jbs01304

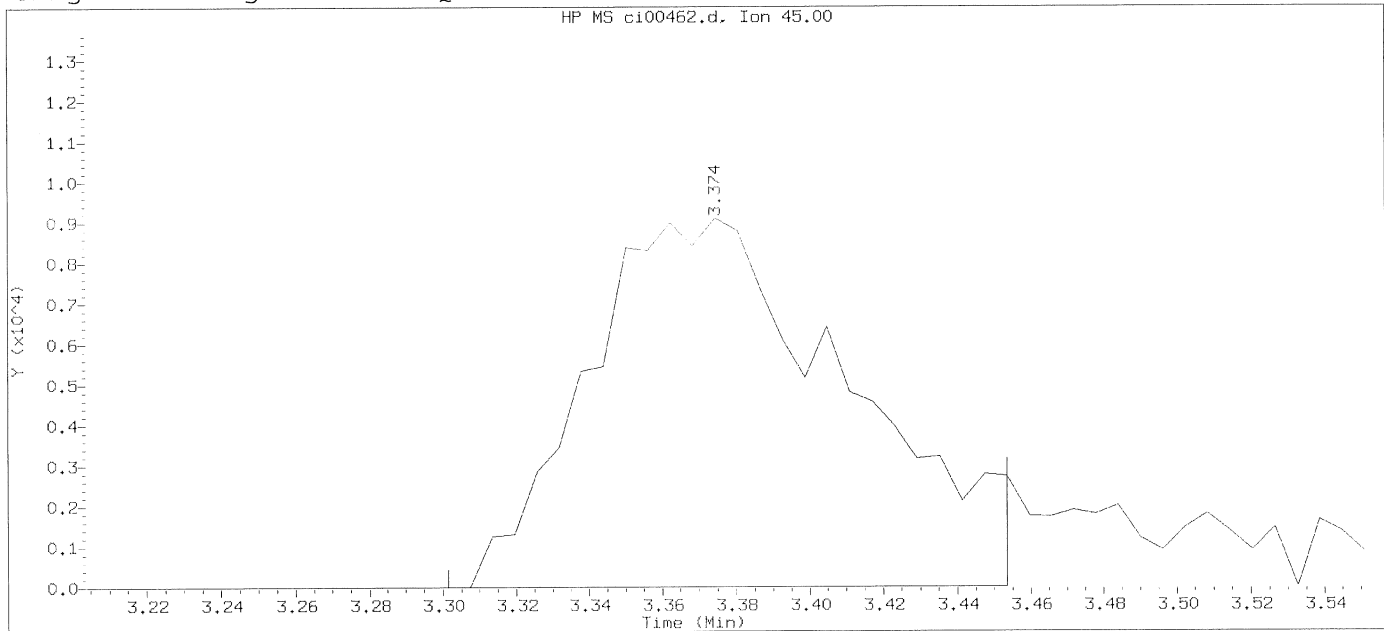
*Mark A. Ratcliff*  
Senior Specialist  
**SEP 25 2015**

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 22-SEP-2015 11:37  
Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

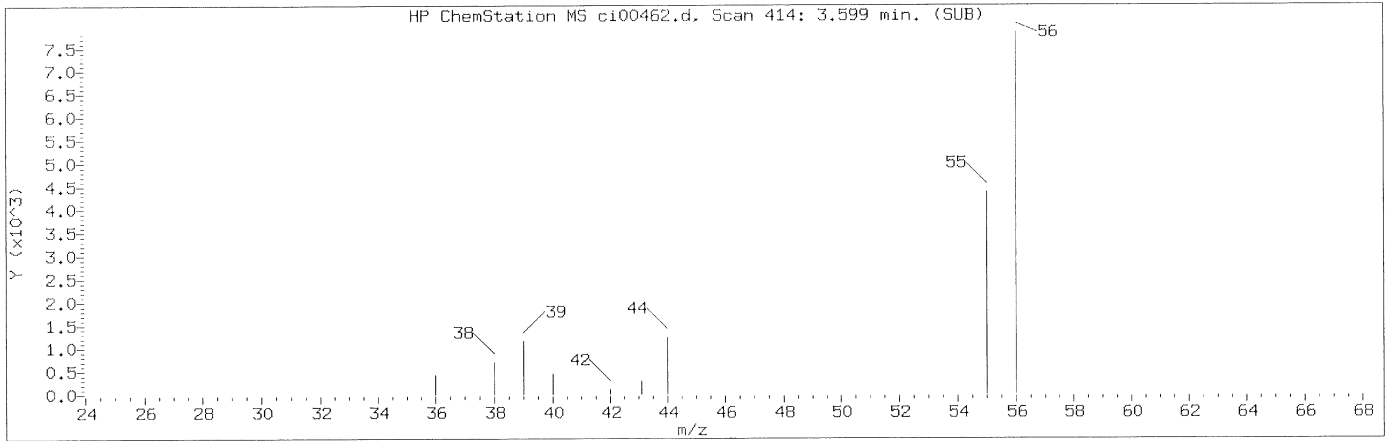
Sample Name: VSTD001

Lab Sample ID: VSTD001

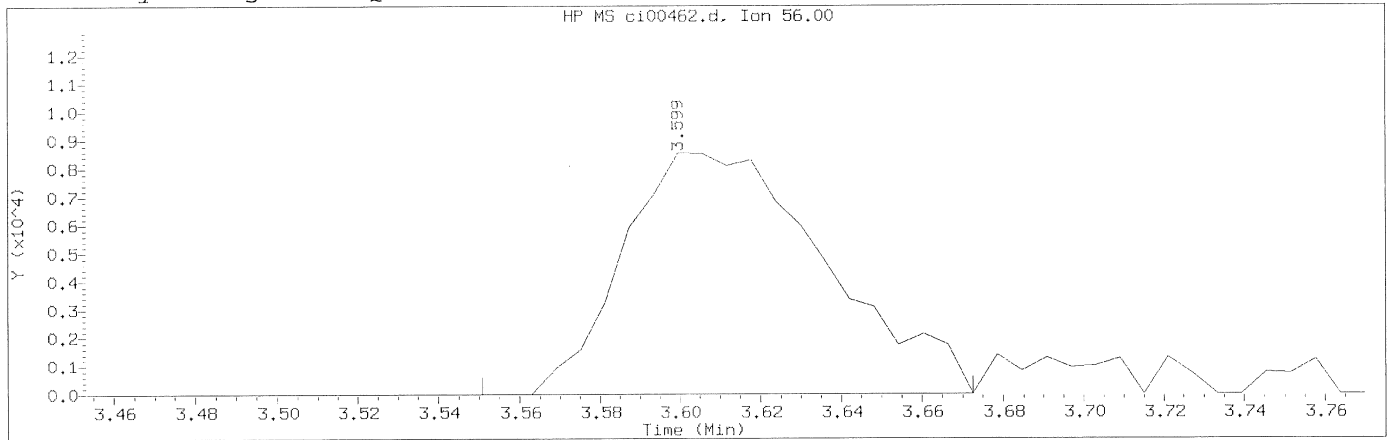
Compound Number : 14  
Compound Name : Ethanol  
Scan Number : 377  
Retention Time (minutes): 3.374  
Quant Ion : 45.00  
Area : 44748  
Concentration (ppb(v)) : 0.6892  
Integration start scan : 364  
Y at integration start : 0  
Integration stop scan: 389  
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 15:13      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001      Lab Sample ID: VSTD001

Compound Number : 16  
Compound Name : Acrolein  
Scan Number : 414  
Retention Time (minutes): 3.599  
Quant Ion : 56.00  
Area (flag) : 29856M  
Concentration (ppb(v)) : 0.7896  
Integration start scan : 405      Integration stop scan: 425  
Y at integration start : 0      Y at integration end: 0

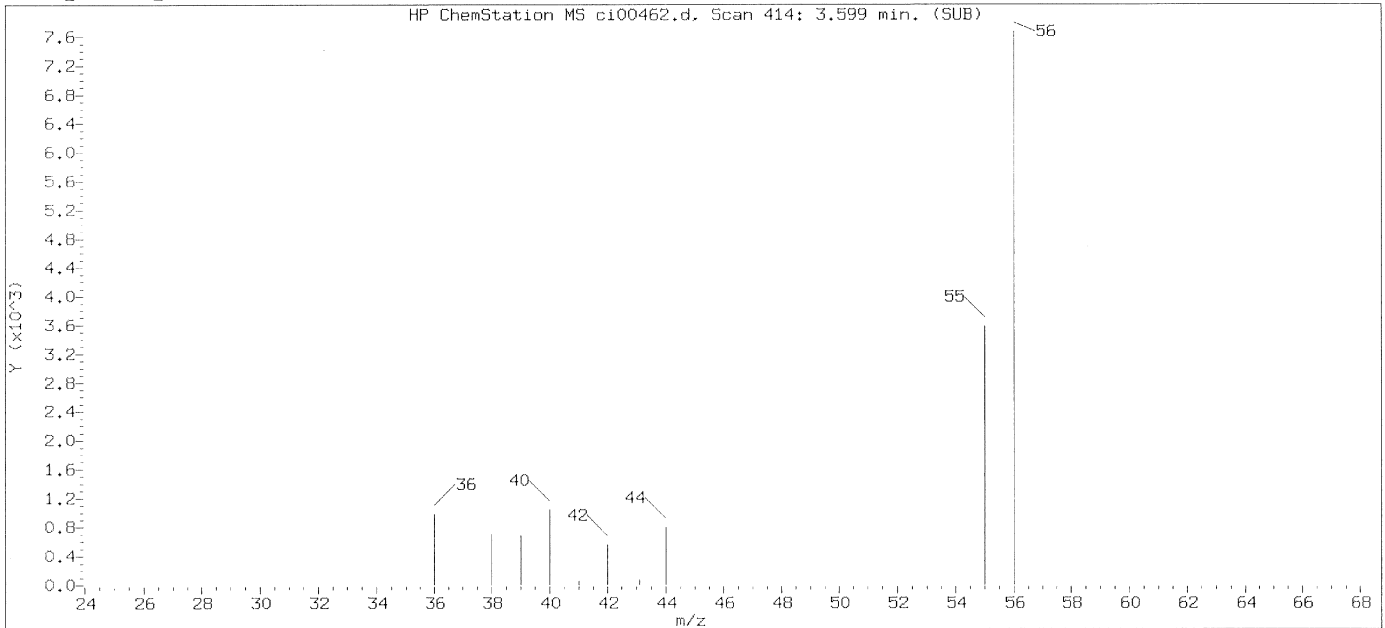
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

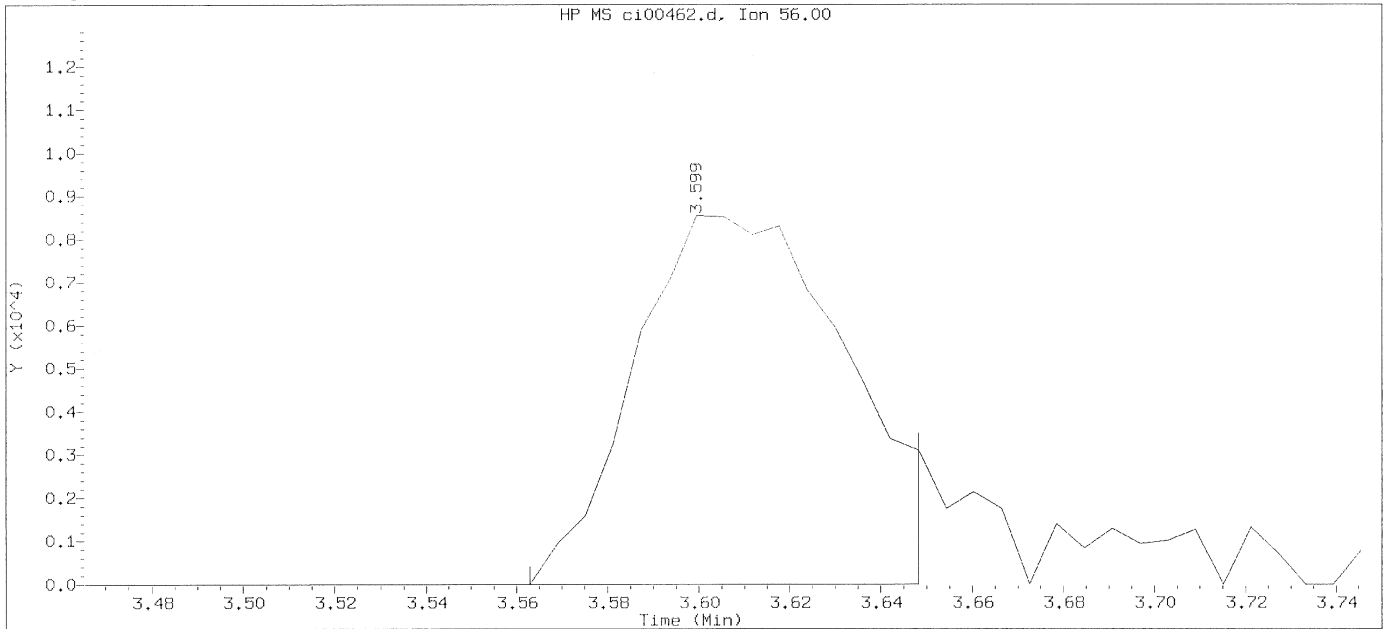
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 15:13

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

Sample Name: VSTD001

Lab Sample ID: VSTD001

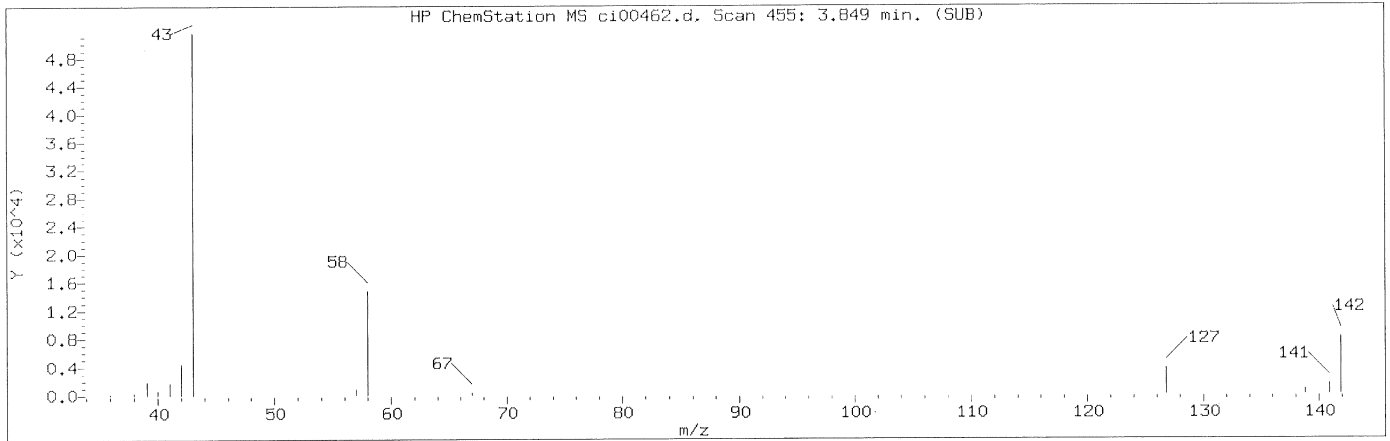
Compound Number : 16  
 Compound Name : Acrolein  
 Scan Number : 414  
 Retention Time (minutes): 3.599  
 Quant Ion : 56.00  
 Area : 27239  
 Concentration (ppb(v)) : 1.0983  
 Integration start scan : 407  
 Y at integration start : 0

Integration stop scan: 421  
 Y at integration end: 0

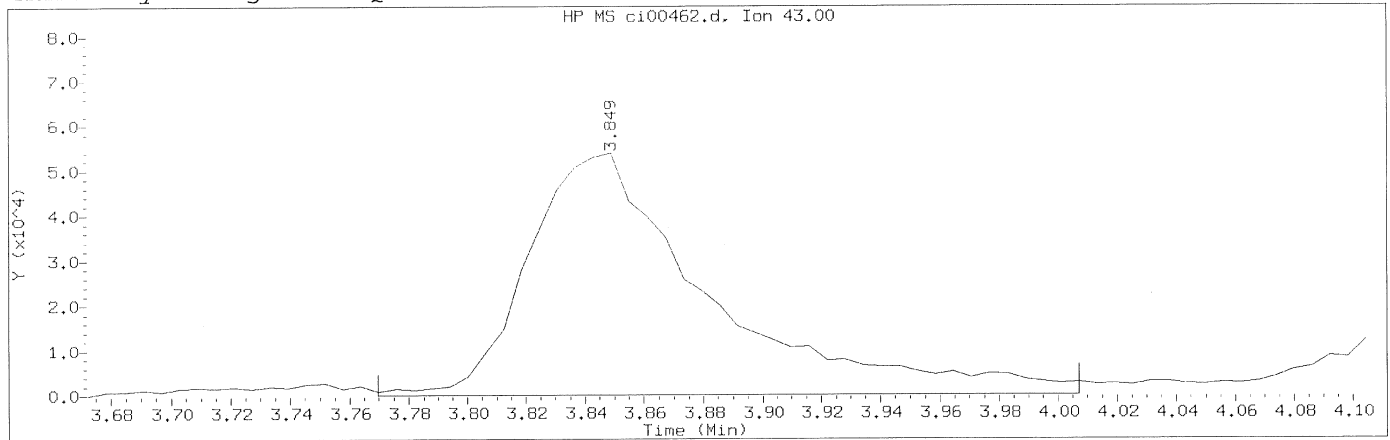
Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304



Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 15:13      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001      Lab Sample ID: VSTD001

Compound Number : 19  
Compound Name : Acetone  
Scan Number : 455  
Retention Time (minutes): 3.849  
Quant Ion : 43.00  
Area (flag) : 229436MA  
Concentration (ppb(v)) : 1.5782  
Integration start scan : 441      Integration stop scan: 480  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

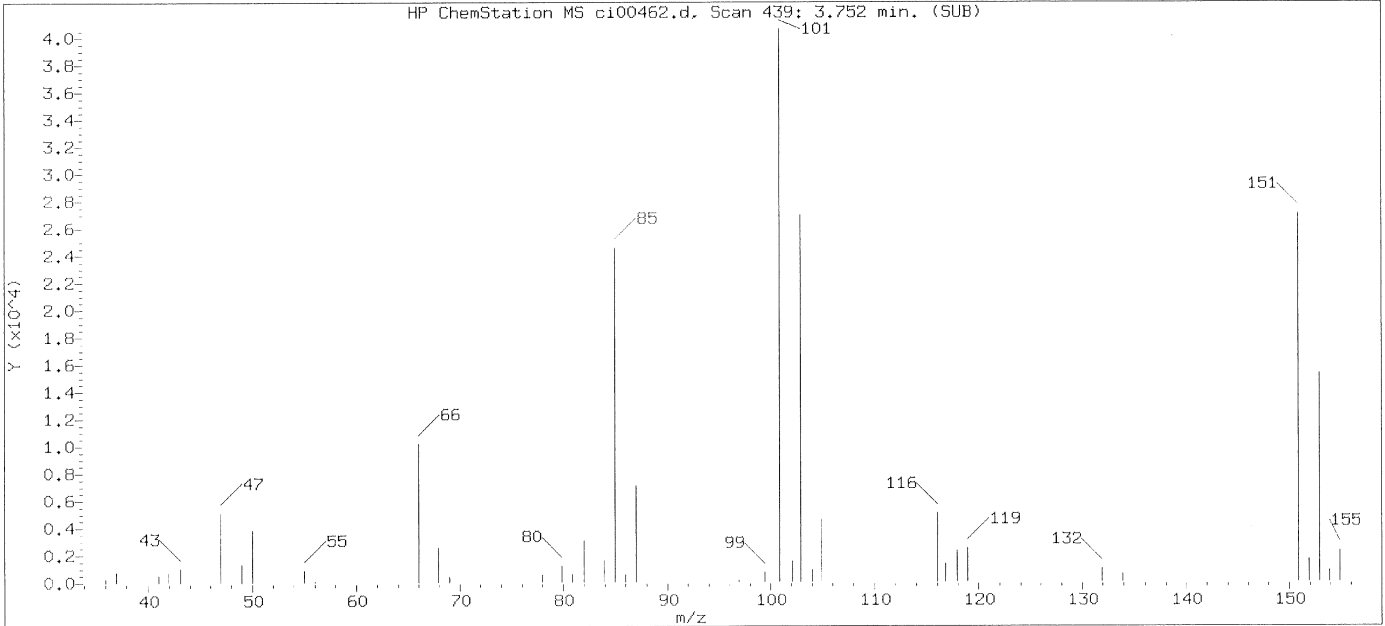
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 signature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

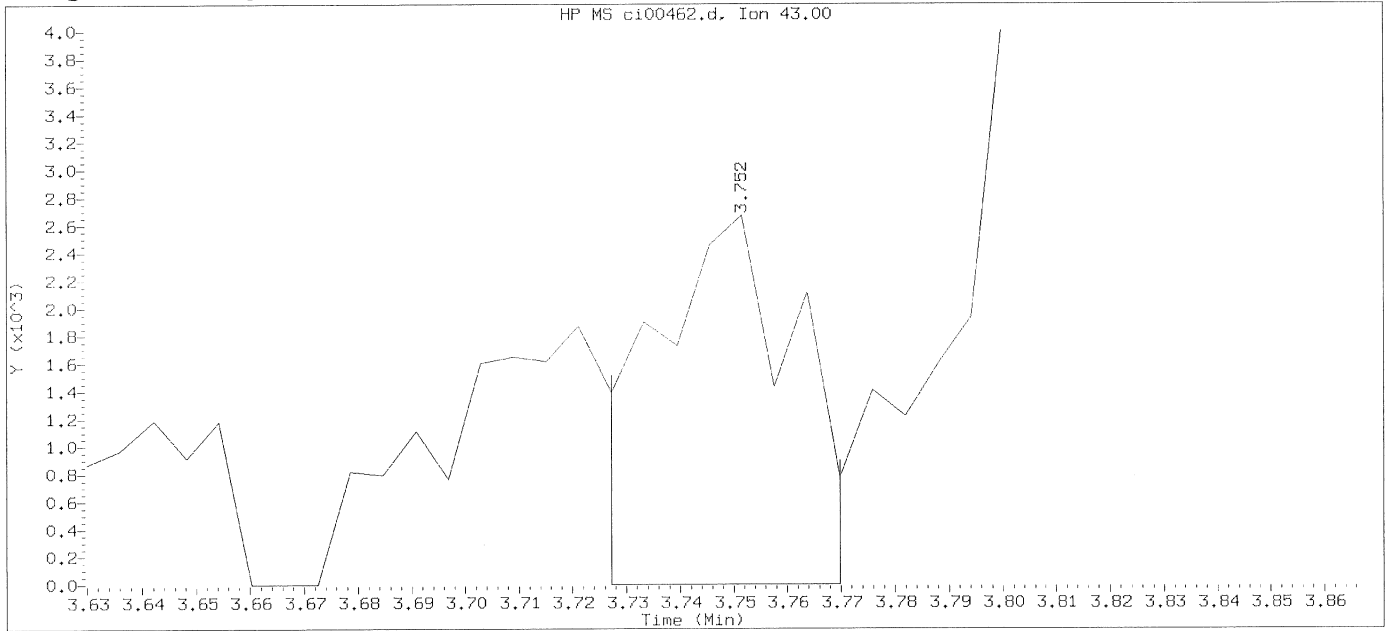
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 22-SEP-2015 11:37  
 Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

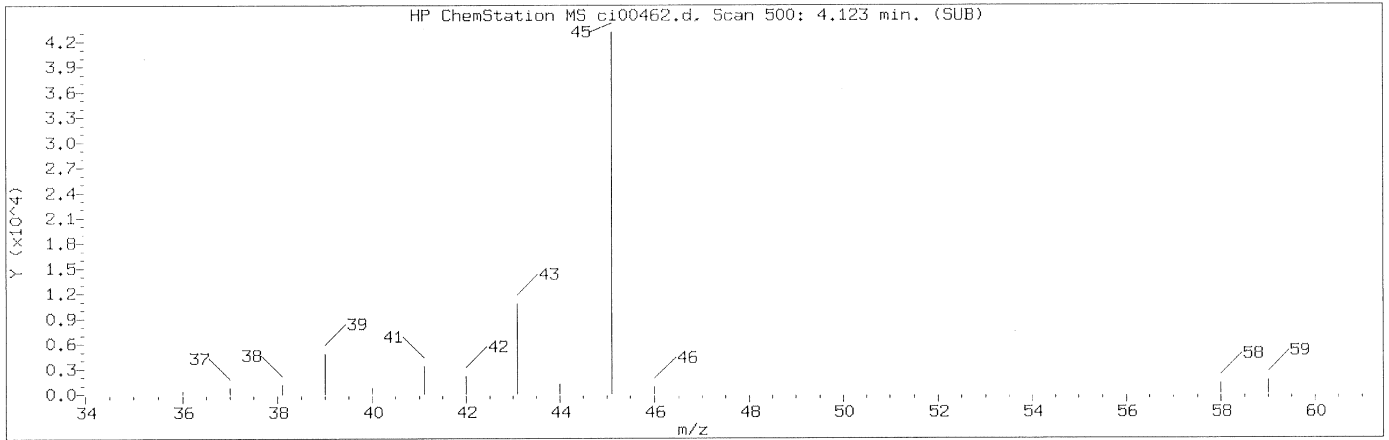
Sample Name: VSTD001

Lab Sample ID: VSTD001

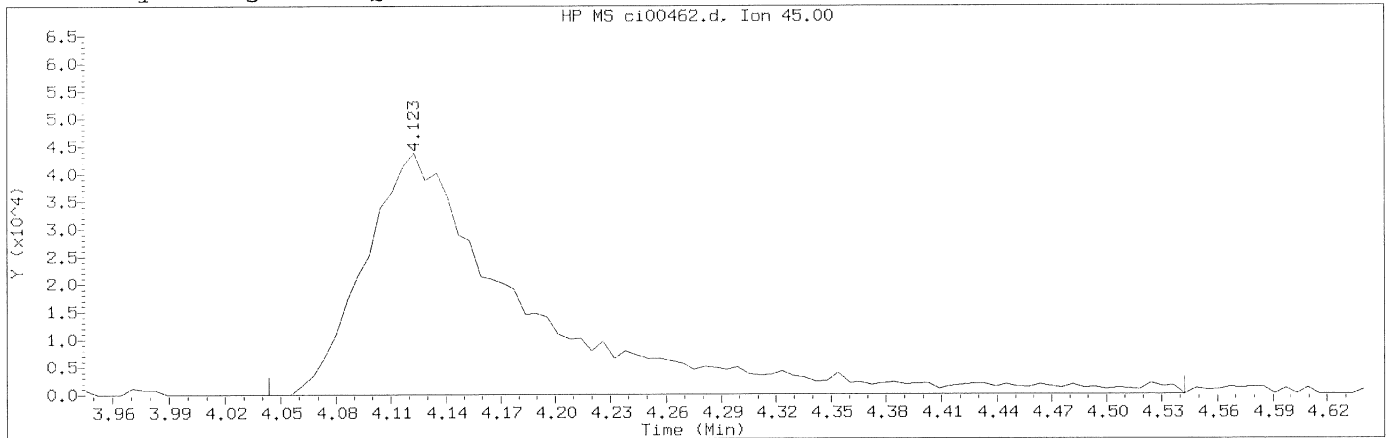
Compound Number	: 19	Integration start scan	: 434	Integration stop scan	: 441
Compound Name	: Acetone	Y at integration start	: 0	Y at integration end	: 0
Scan Number	: 439				
Retention Time (minutes)	: 3.752				
Quant Ion	: 43.00				
Area	: 4879				
Concentration (ppb(v))	: 0.0694				

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d                      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 15:13                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001                      Lab Sample ID: VSTD001

Compound Number                      : 22  
Compound Name                         : Isopropanol  
Scan Number                            : 500  
Retention Time (minutes): 4.123  
Quant Ion                                : 45.00  
Area (flag)                             : 268061M  
Concentration (ppb(v))                : 1.2540  
Integration start scan                 : 486                      Integration stop scan: 568  
Y at integration start                 : 0                        Y at integration end: 0

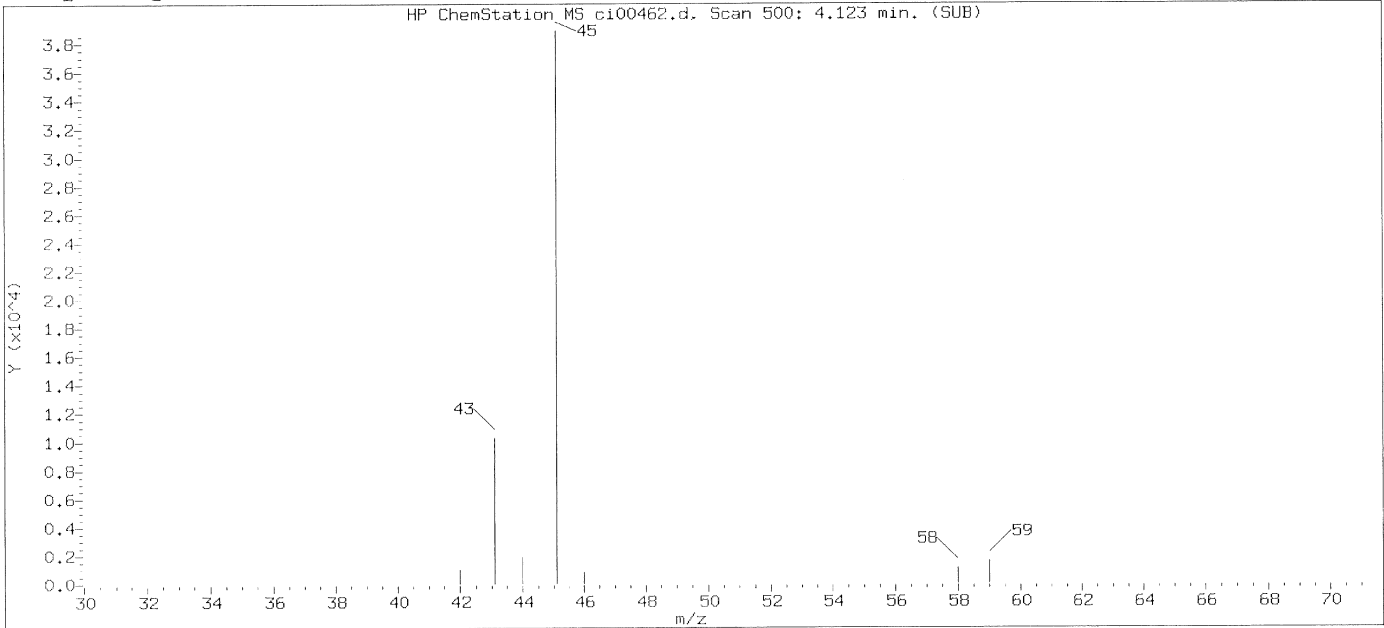
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

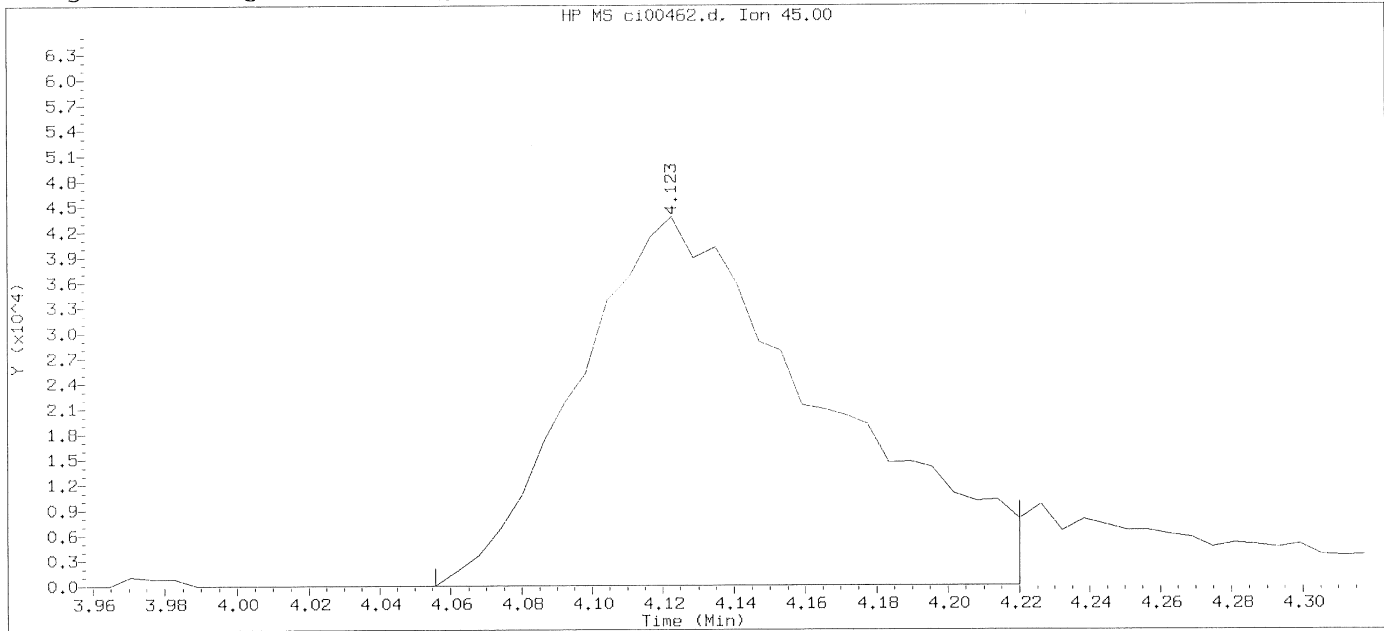
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

GC/MS audit/management approval: \_\_\_\_\_ **SEP 25 2015**

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 15:13

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

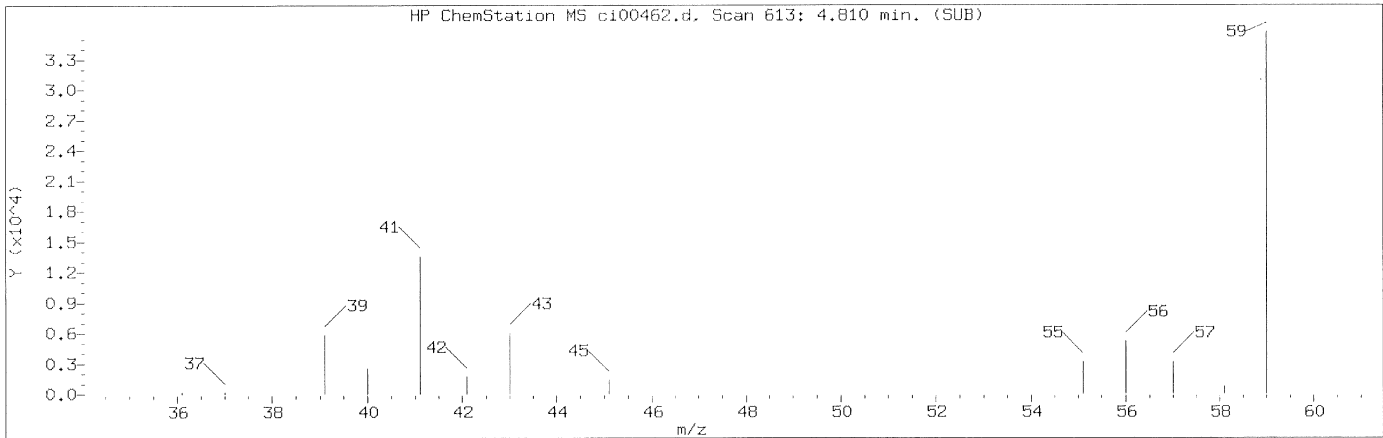
Sample Name: VSTD001

Lab Sample ID: VSTD001

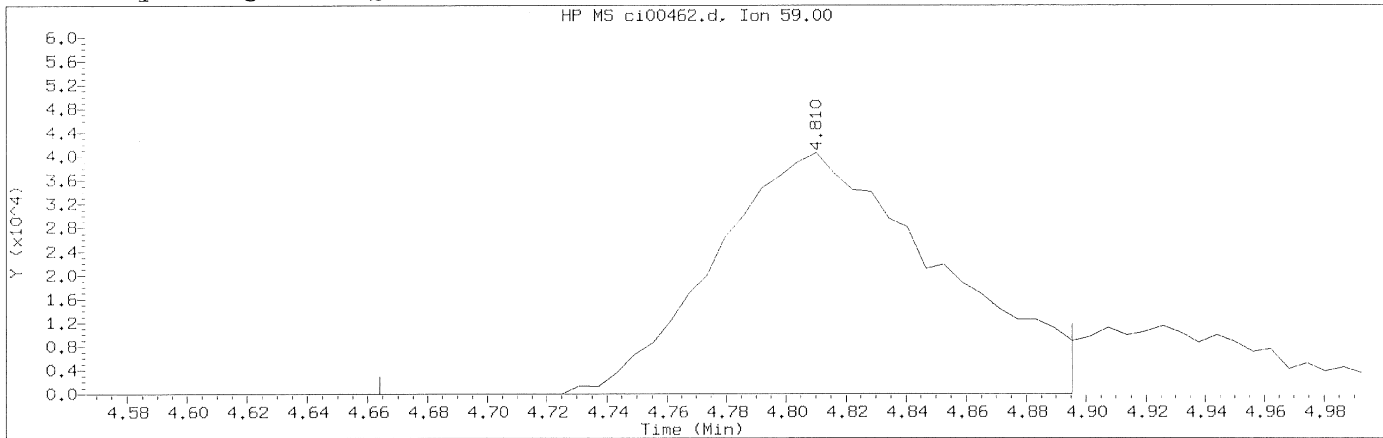
Compound Number : 22  
Compound Name : Isopropanol  
Scan Number : 500  
Retention Time (minutes): 4.123  
Quant Ion : 45.00  
Area : 209464  
Concentration (ppb(v)) : 1.2305  
Integration start scan : 488 Integration stop scan: 515  
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 26  
Compound Name : tert-Butyl Alcohol  
Scan Number : 613  
Retention Time (minutes): 4.810  
Quant Ion : 59.00  
Area (flag) : 211660M  
Concentration (ppb(v)) : 1.1370  
Integration start scan : 588      Integration stop scan: 626  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

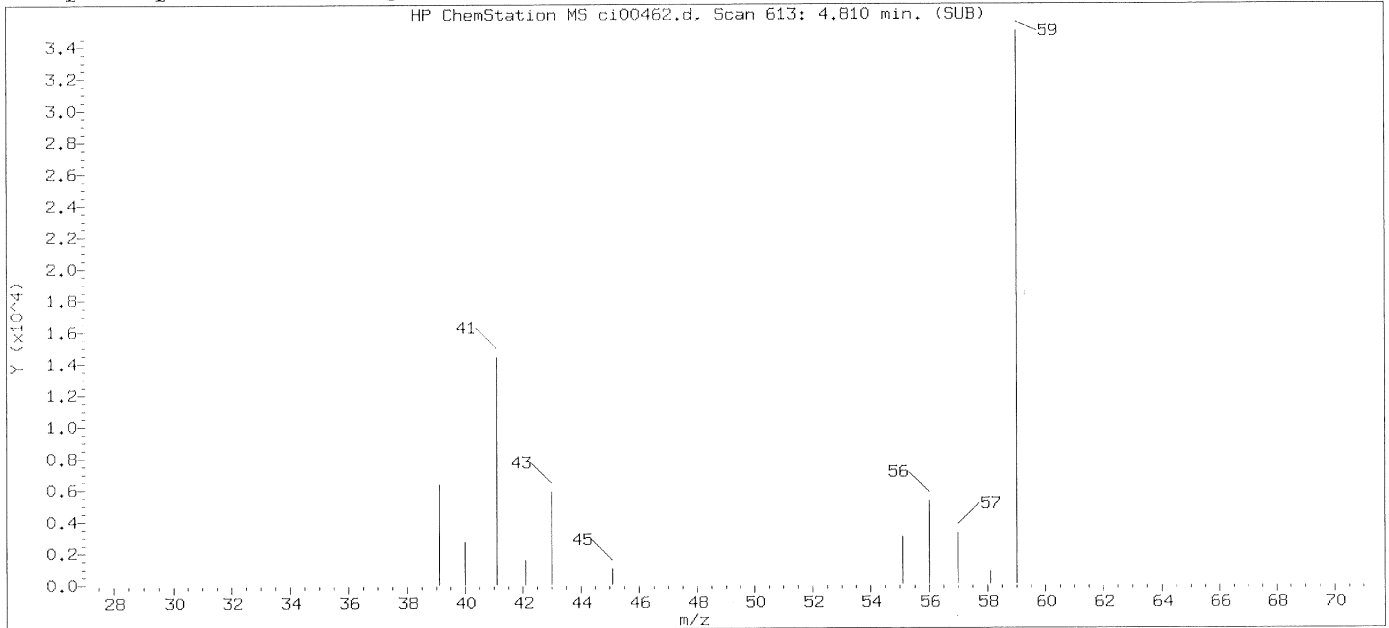
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

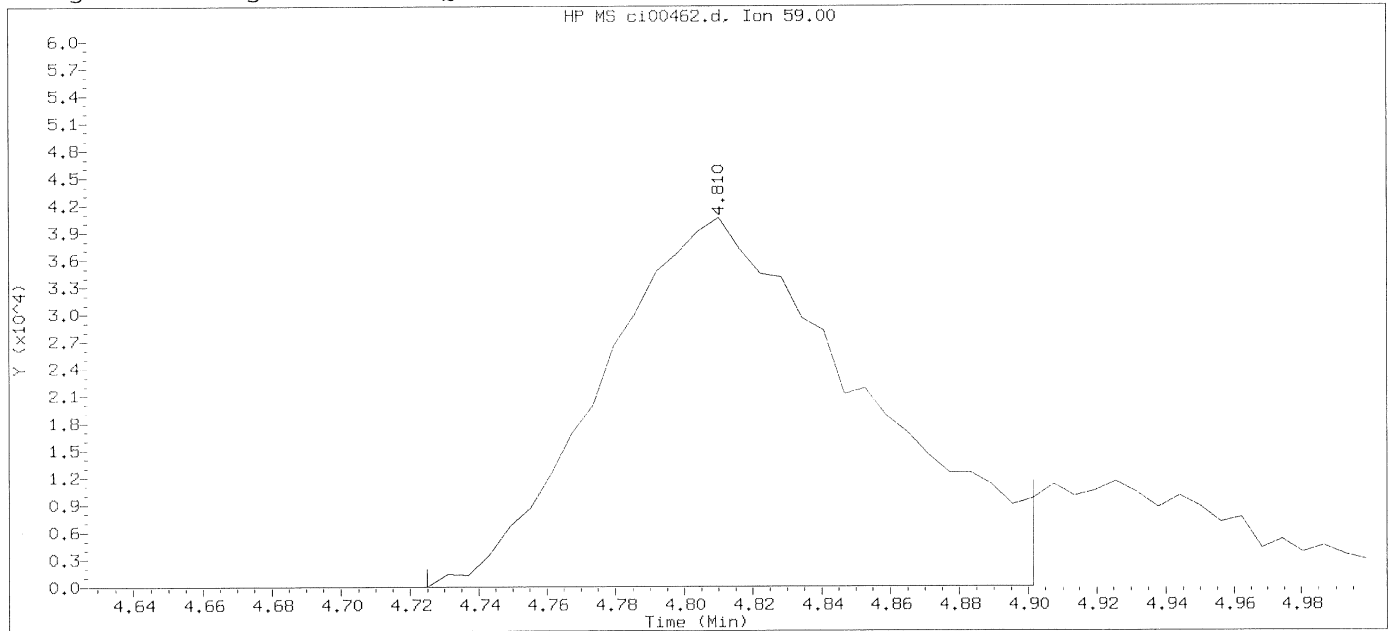
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 15:13

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

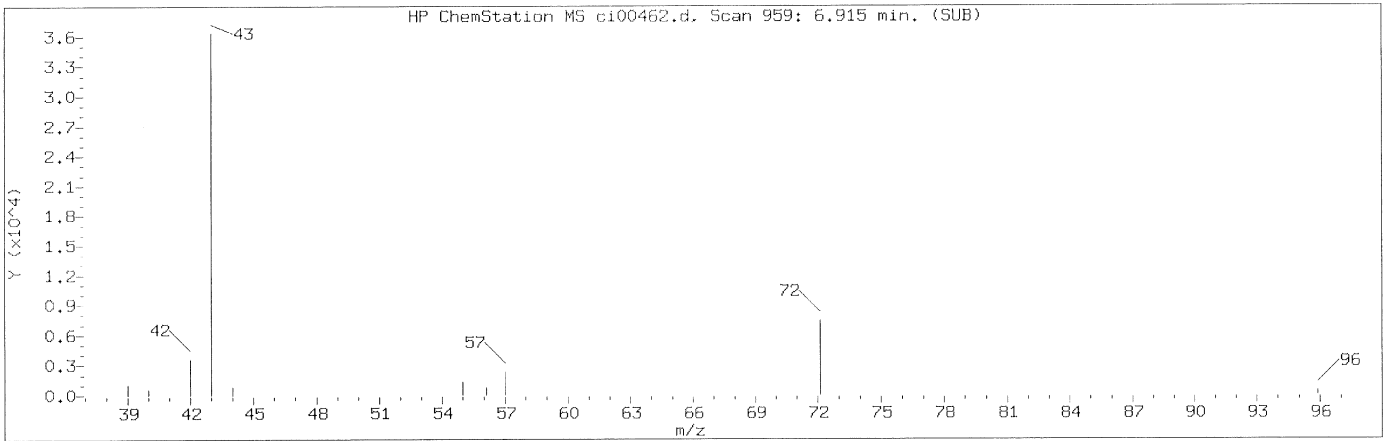
Sample Name: VSTD001

Lab Sample ID: VSTD001

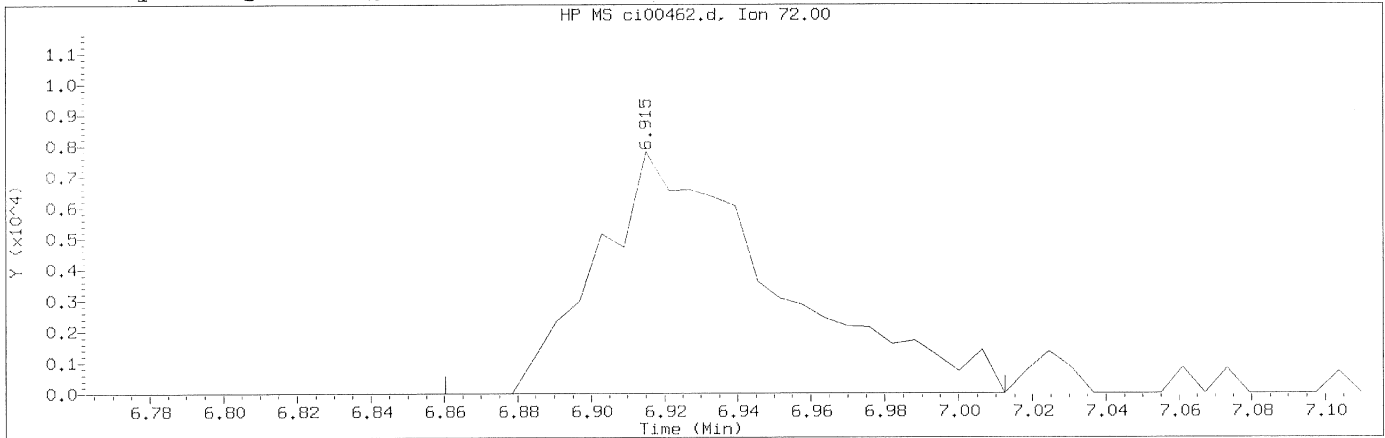
Compound Number : 26  
Compound Name : tert-Butyl Alcohol  
Scan Number : 613  
Retention Time (minutes): 4.810  
Quant Ion : 59.00  
Area : 213428  
Concentration (ppb(v)) : 1.4913  
Integration start scan : 598 Integration stop scan: 627  
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 959  
Retention Time (minutes): 6.915  
Quant Ion : 72.00  
Area (flag) : 26480M  
Concentration (ppb(v)) : 0.9702  
Integration start scan : 949      Integration stop scan: 974  
Y at integration start : 0      Y at integration end: 0

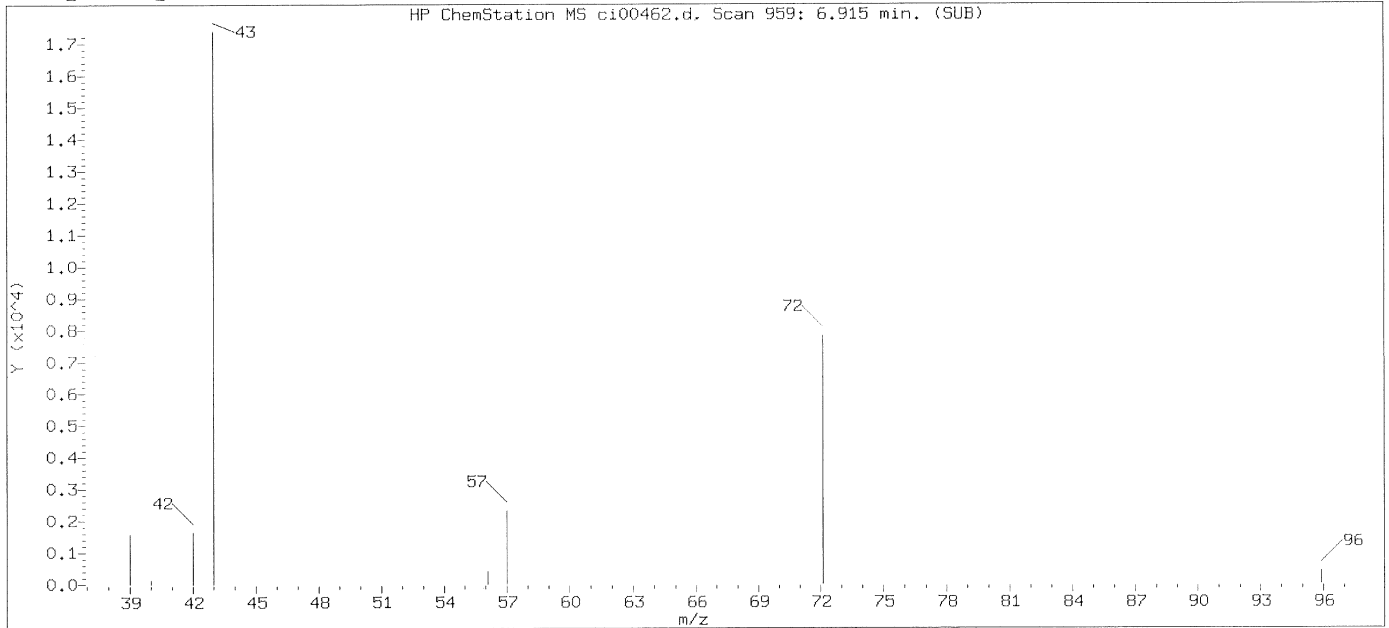
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

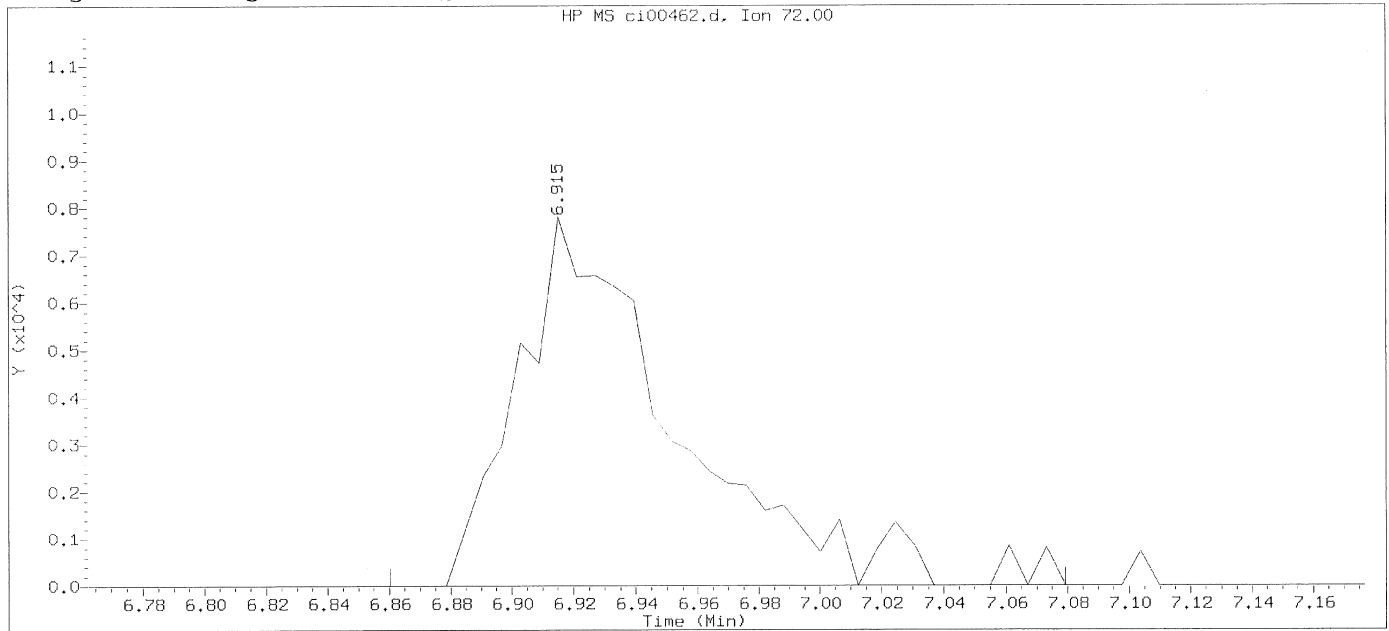
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 15:13

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

Sample Name: VSTD001

Lab Sample ID: VSTD001

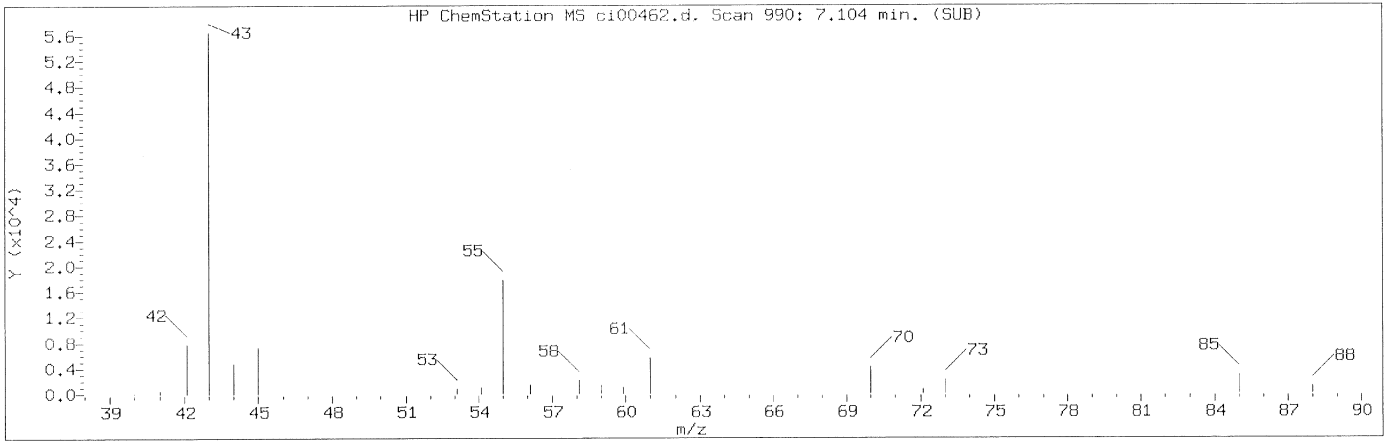
Compound Number : 37  
 Compound Name : 2-Butanone  
 Scan Number : 959  
 Retention Time (minutes): 6.915  
 Quant Ion : 72.00  
 Area : 28156  
 Concentration (ppb(v)) : 1.0850  
 Integration start scan : 949  
 Y at integration start : 0

Integration stop scan: 985  
 Y at integration end: 0

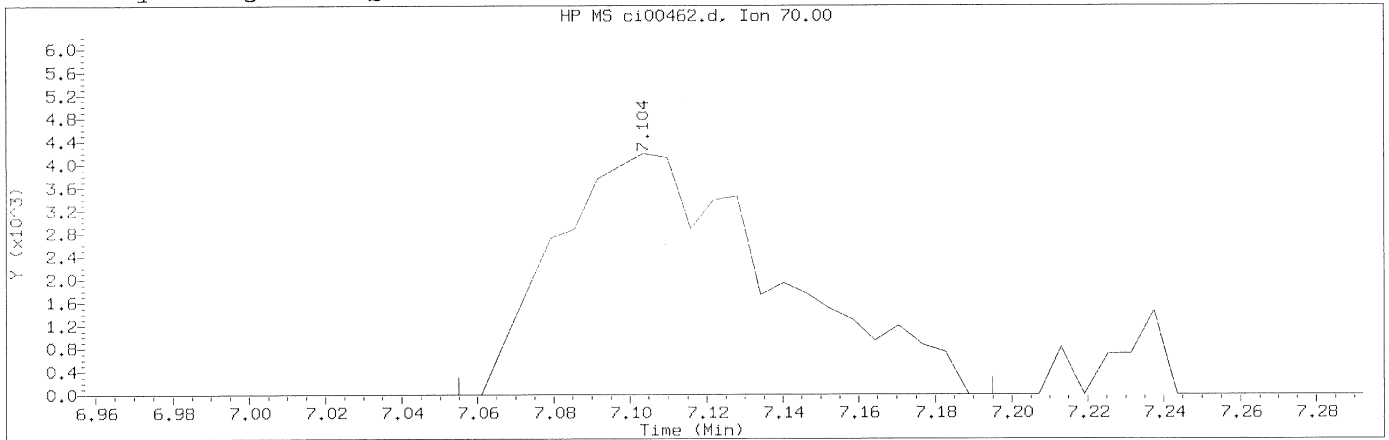
Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304



Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 38  
Compound Name : Ethyl Acetate  
Scan Number : 990  
Retention Time (minutes): 7.104  
Quant Ion : 70.00  
Area (flag) : 16806M  
Concentration (ppb(v)) : 1.0703  
Integration start scan : 981      Integration stop scan: 1004  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

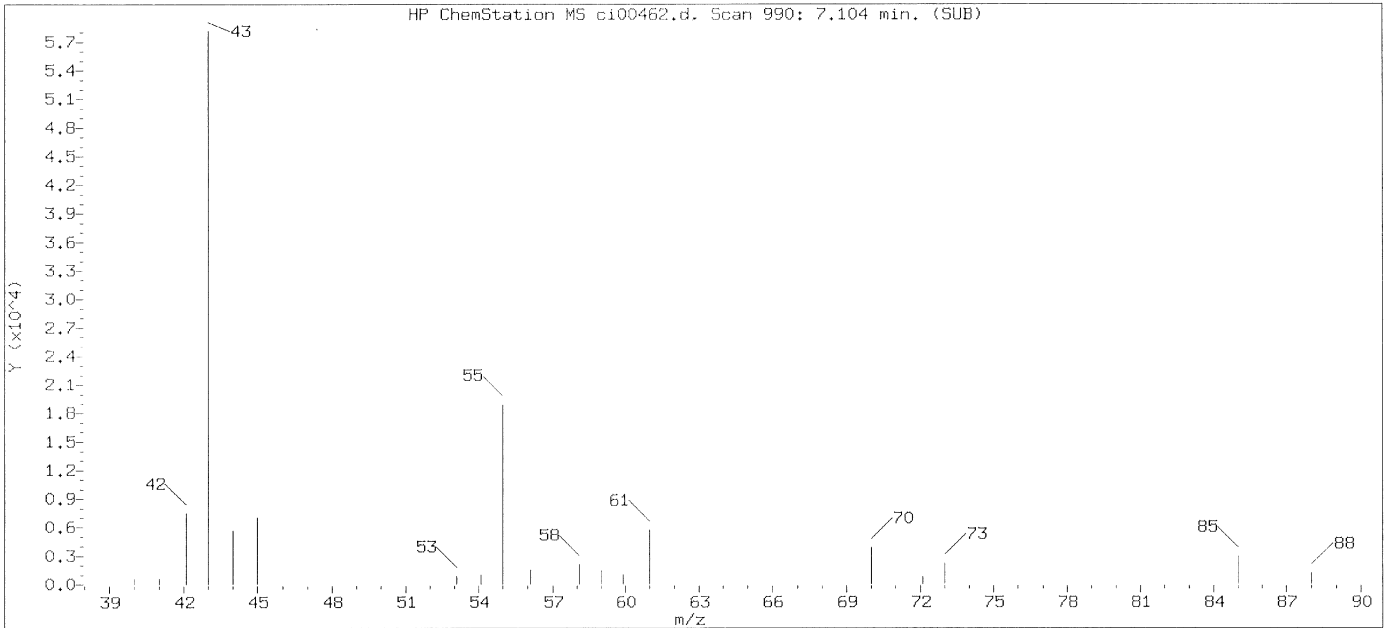
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

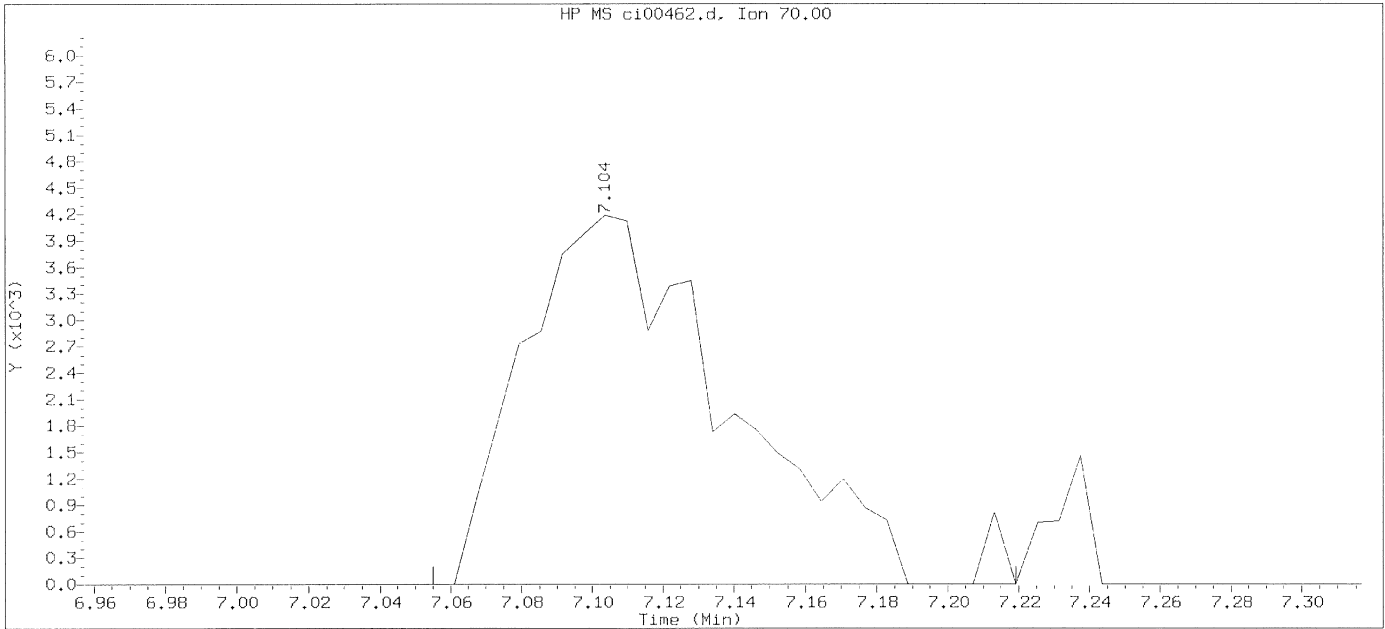
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 15:13

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

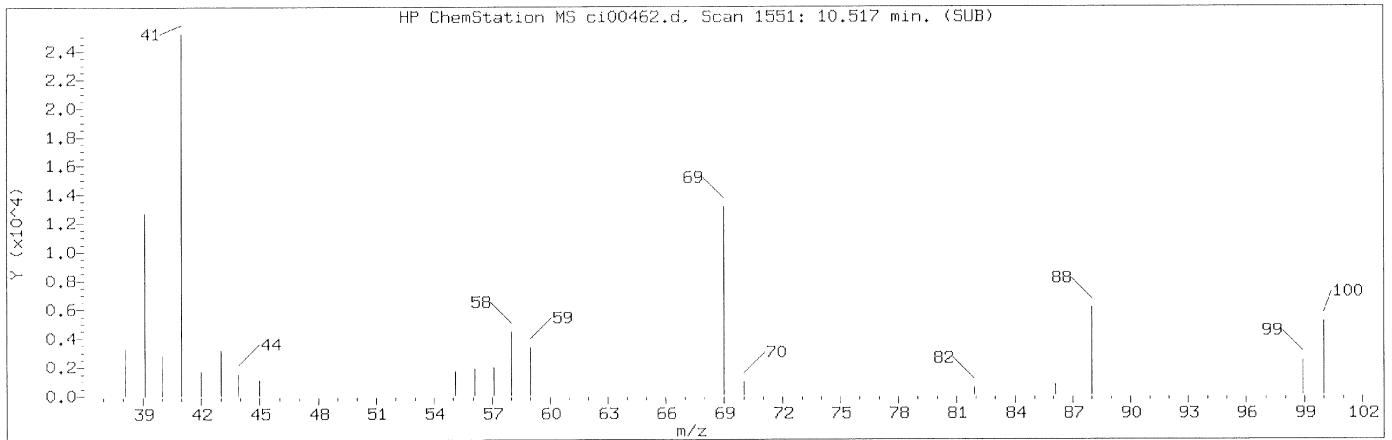
Sample Name: VSTD001

Lab Sample ID: VSTD001

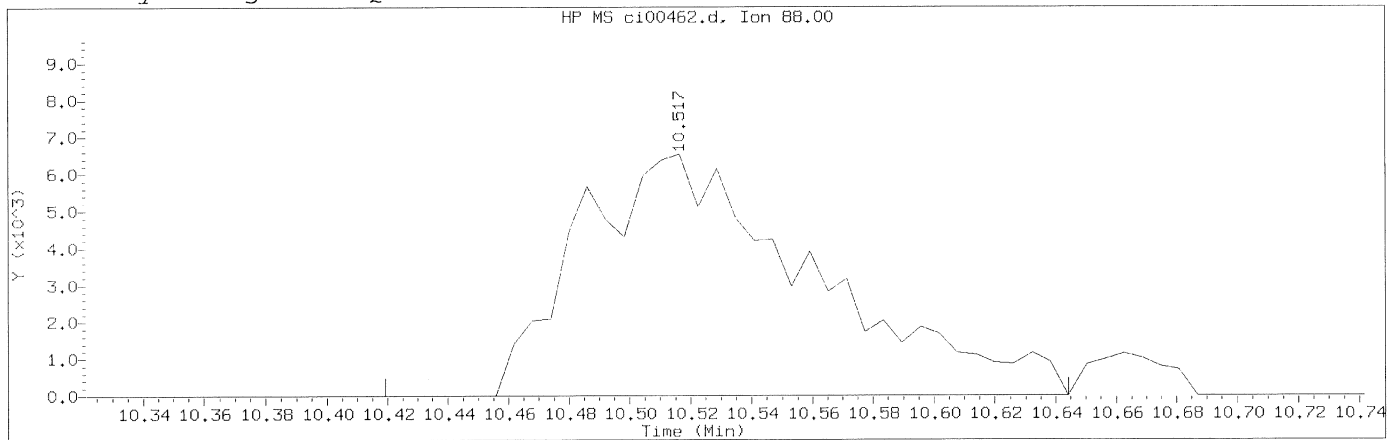
Compound Number : 38  
Compound Name : Ethyl Acetate  
Scan Number : 990  
Retention Time (minutes): 7.104  
Quant Ion : 70.00  
Area : 17106  
Concentration (ppb(v)) : 1.2648  
Integration start scan : 981 Integration stop scan: 1008  
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 15:13 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 56  
Compound Name : 1,4-Dioxane  
Scan Number : 1551  
Retention Time (minutes): 10.517  
Quant Ion : 88.00  
Area (flag) : 34944M  
Concentration (ppb(v)) : 0.9190  
Integration start scan : 1534 Integration stop scan: 1571  
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

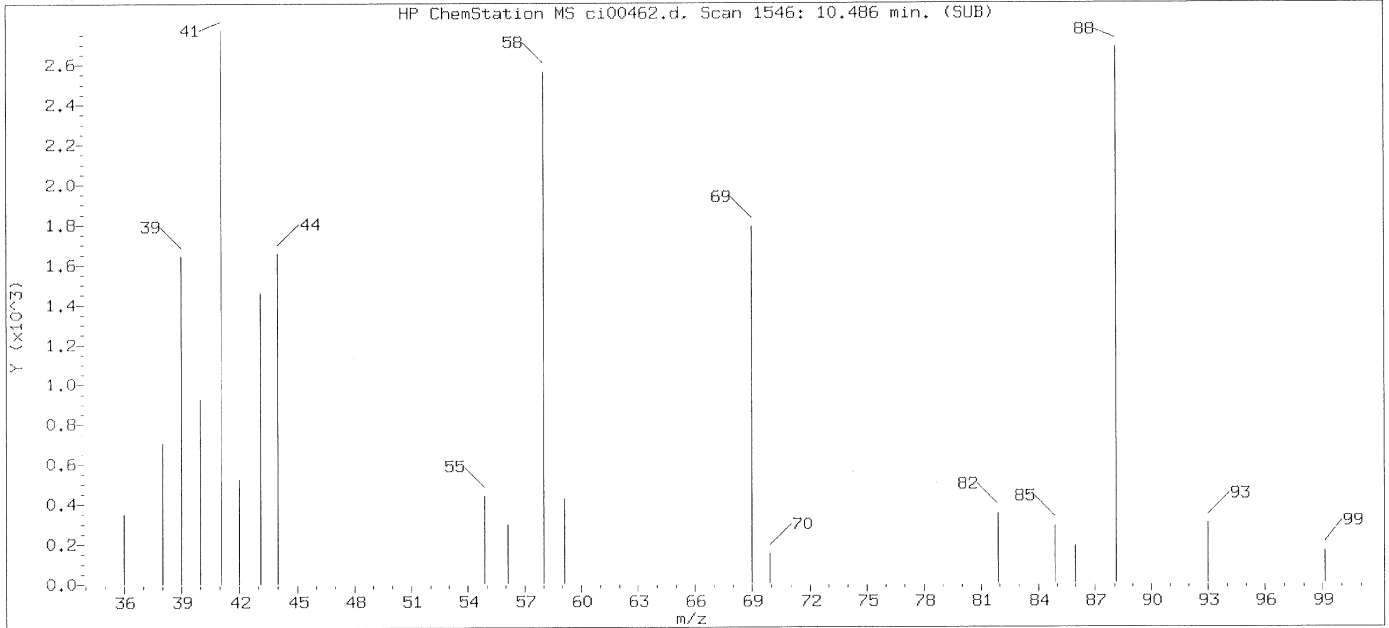
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

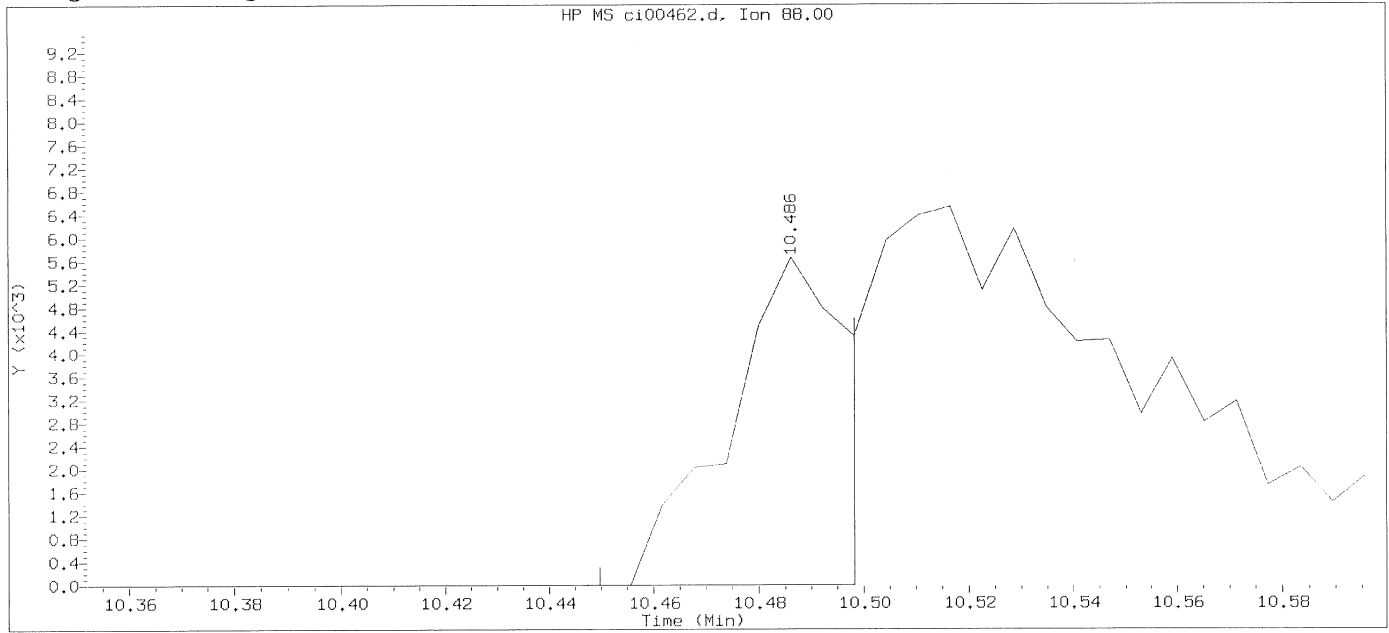
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d                      Instrument ID: HP09464.i  
 Injection date and time: 22-SEP-2015 15:13                      Analyst ID: jeb07445

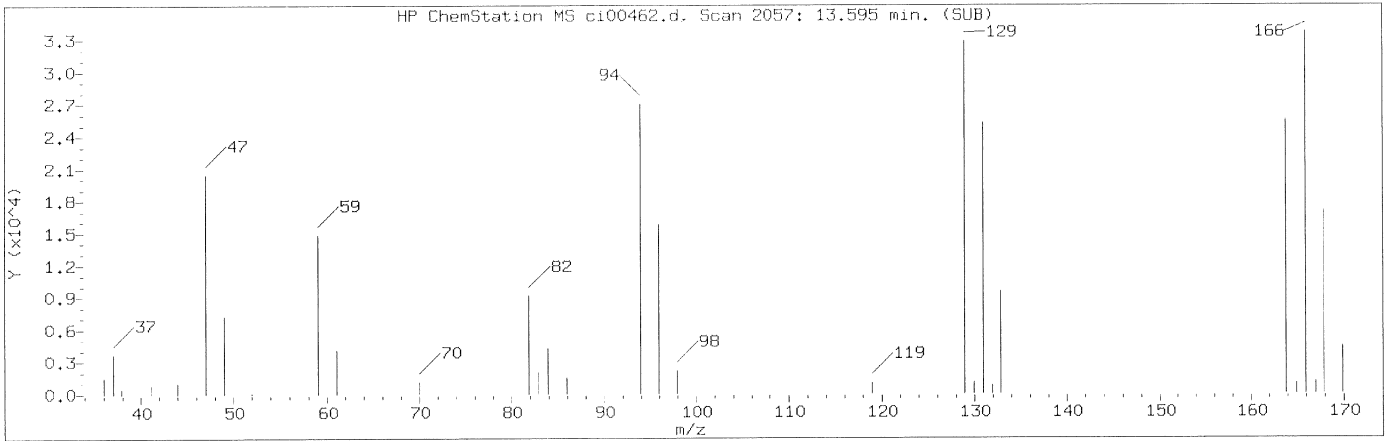
Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
 Calibration date and time: 22-SEP-2015 11:37  
 Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

Sample Name: VSTD001                      Lab Sample ID: VSTD001

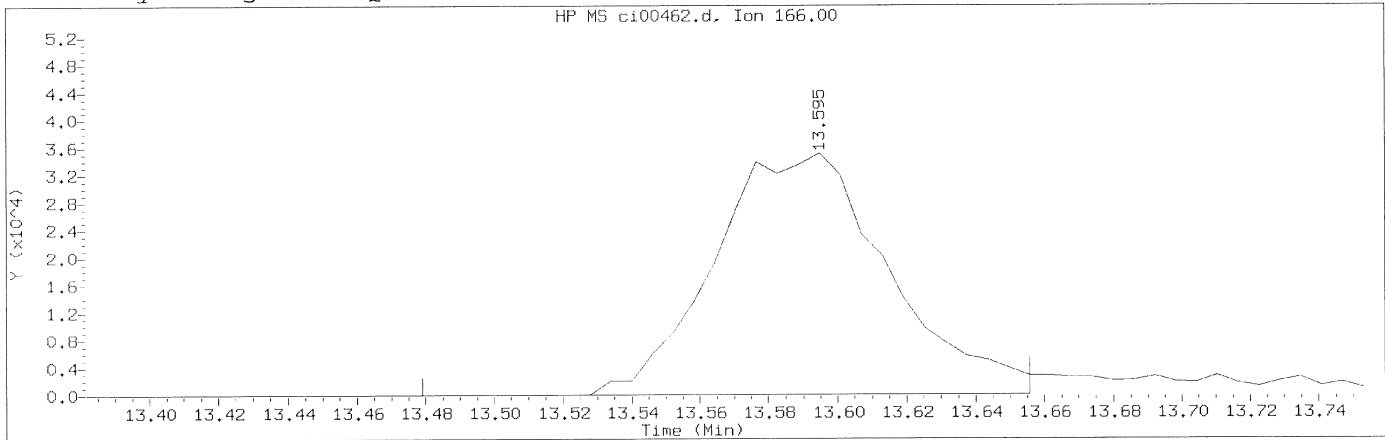
Compound Number                      : 56  
 Compound Name                        : 1,4-Dioxane  
 Scan Number                          : 1546  
 Retention Time (minutes): 10.486  
 Quant Ion                              : 88.00  
 Area                                    : 8239  
 Concentration (ppb(v))              : 0.2061  
 Integration start scan                : 1539                      Integration stop scan: 1547  
 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/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 67  
 Compound Name : Tetrachloroethene  
 Scan Number : 2057  
 Retention Time (minutes): 13.595  
 Quant Ion : 166.00  
 Area (flag) : 123200M  
 Concentration (ppb(v)) : 1.2572  
 Integration start scan : 2037 Integration stop scan: 2066  
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

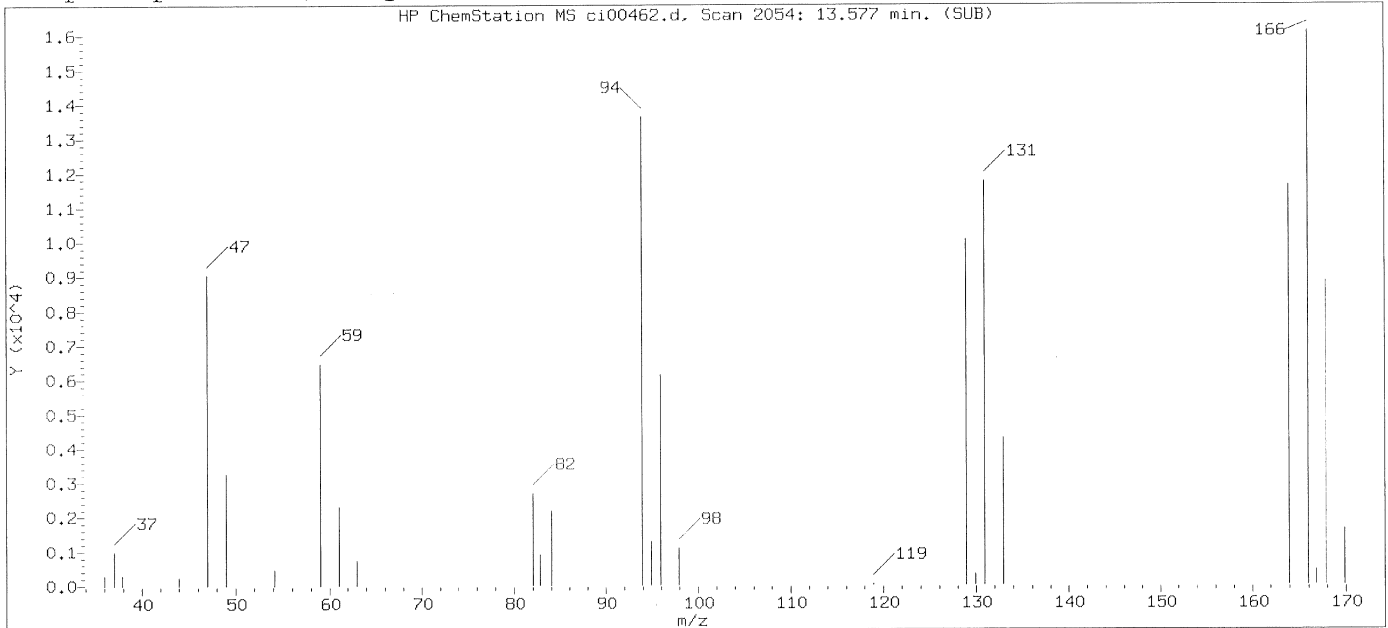
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
 Mark A. Ratcliff  
 Senior Specialist

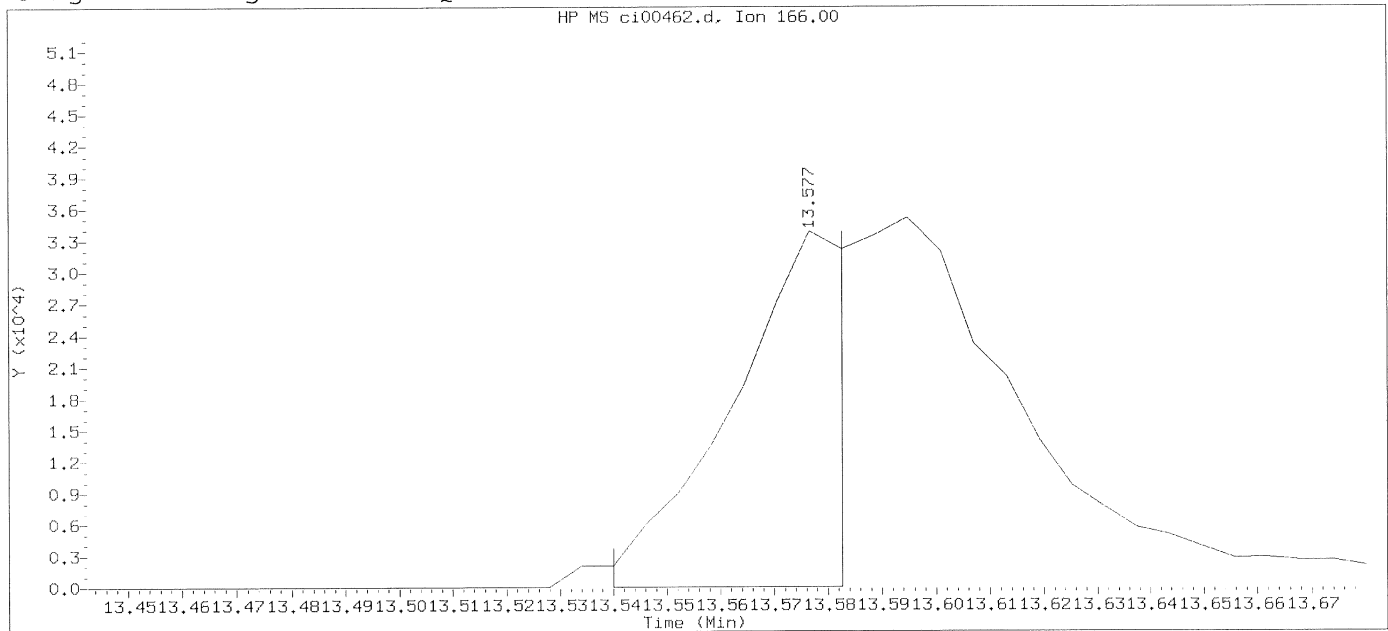
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00462.d  
 Injection date and time: 22-SEP-2015 15:13

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

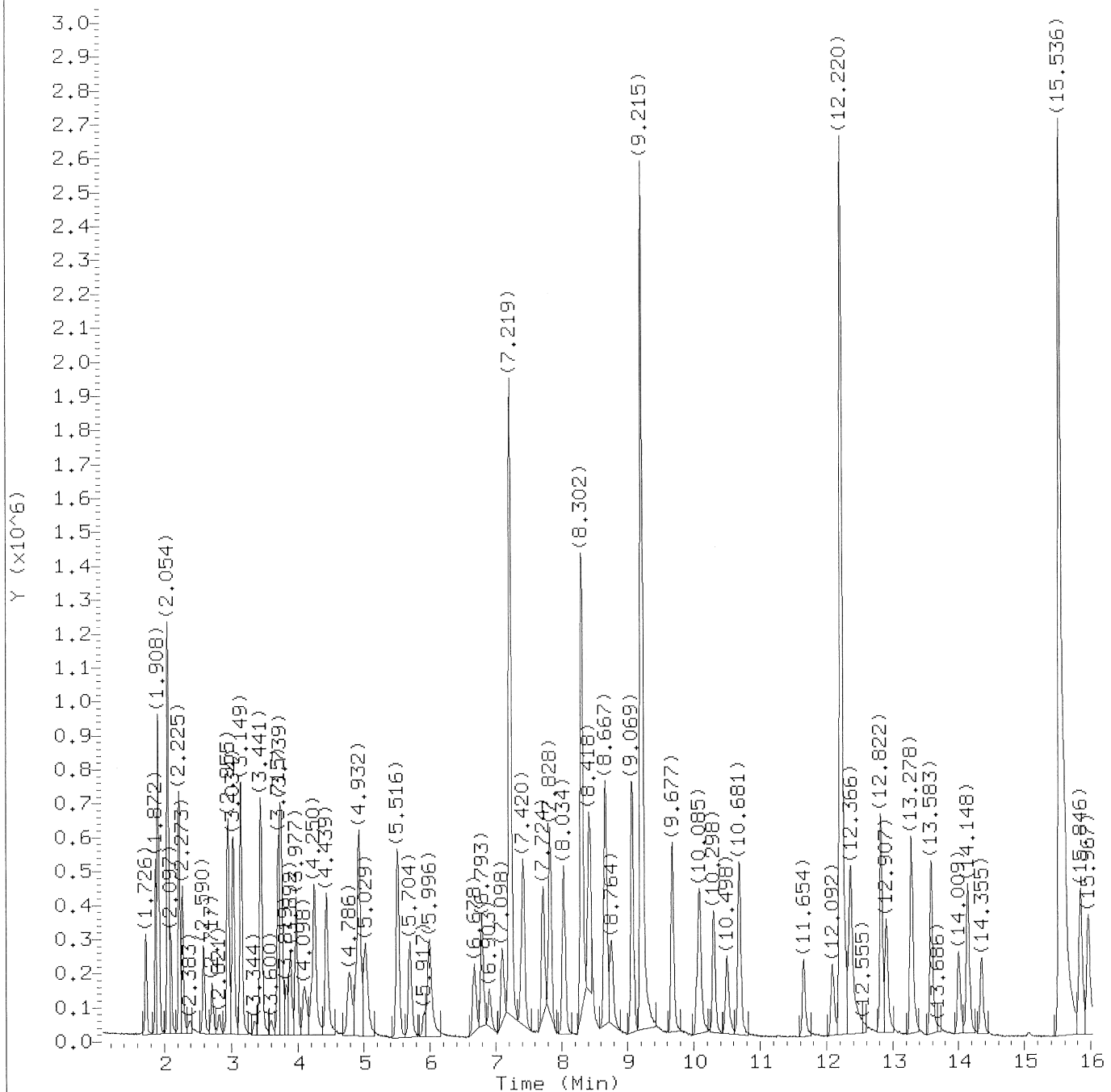
Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 22-SEP-2015 11:37  
 Date, time and analyst ID of latest file update: 22-Sep-2015 15:53 Automation

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 67  
 Compound Name : Tetrachloroethene  
 Scan Number : 2054  
 Retention Time (minutes): 13.577  
 Quant Ion : 166.00  
 Area : 45916  
 Concentration (ppb(v)) : 0.5744  
 Integration start scan : 2047  
 Y at integration start : 0  
 Integration stop scan: 2054  
 Y at integration end: 0

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 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00464.d

Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 23-SEP-2015 09:08

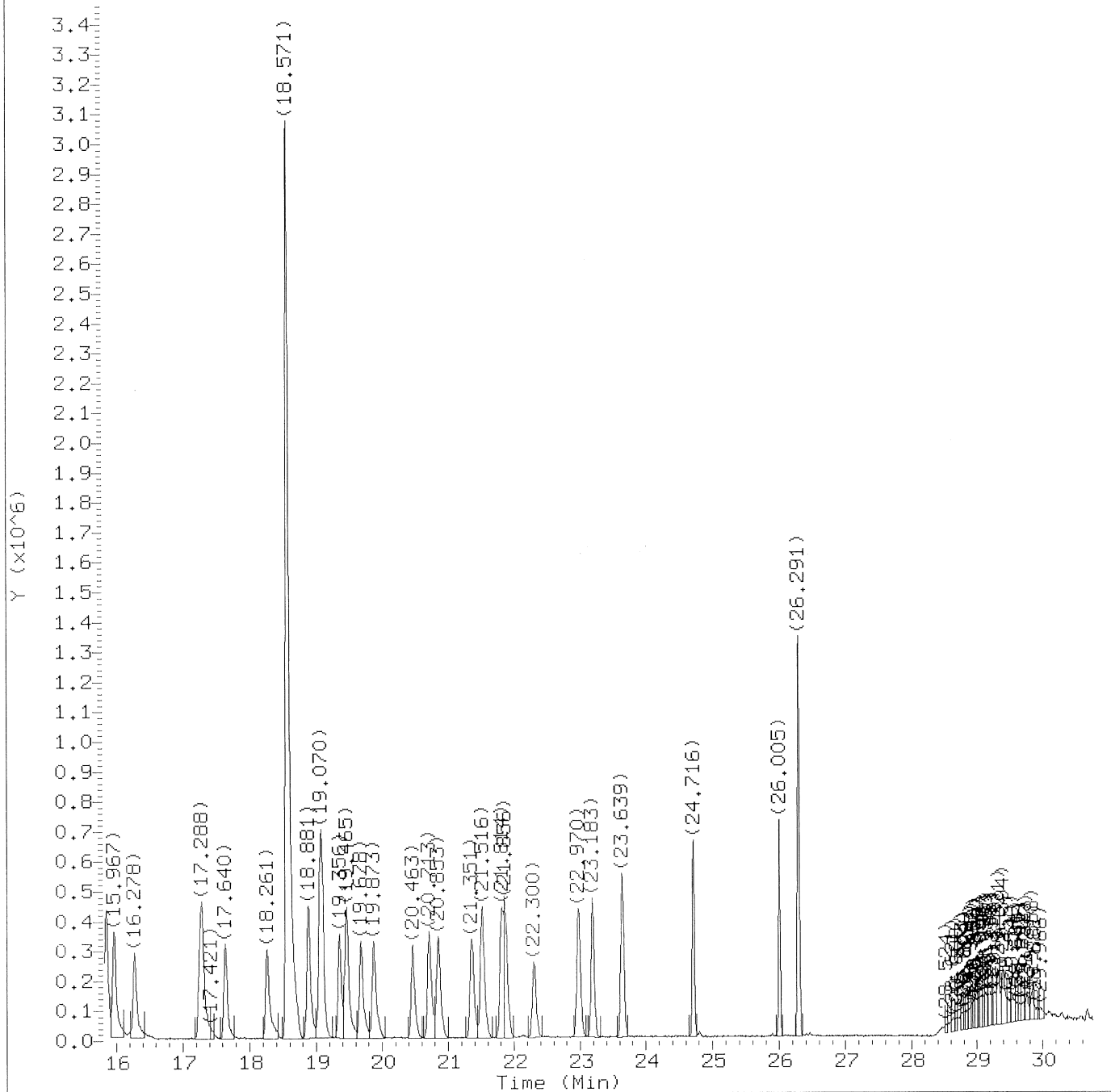
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD002

Lab Sample ID: VSTD002

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on 09/23/2015 at 09:32.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00464.d

Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD002

Lab Sample ID: VSTD002

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on 09/23/2015 at 09:32.

Target 3.5 esignature user ID: jbs01304



Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00464.d  
 Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	213069	1.738
2) Dichlorodifluoromethane	(1)	1.908	85	593325	1.899
3) Chlorodifluoromethane	(1)	1.914	51	544036	2.048
4) Freon 114	(1)	2.048	85	519148	1.853
5) Chloromethane	(1)	2.103	52	110966	1.969
6) Vinyl Chloride	(1)	2.225	62	266885	1.880
7) 1,3-Butadiene	(1)	2.273	54	203156	1.699
8) Bromomethane	(1)	2.590	94	205345	1.829
9) Chloroethane	(1)	2.717	64	160320	1.781
10) Bromoethene	(1)	2.936	106	170224	1.803
11) Dichlorofluoromethane	(1)	2.961	67	715860	2.058
12) Trichlorofluoromethane	(1)	3.034	101	609181	1.872
13) Pentane	(1)	3.143	43	610553	2.063
14) Ethanol	(1)	3.344	45	88532M	1.190
15) Freon123a	(1)	3.441	67	687535	2.412
16) Acrolein	(1)	3.600	56	53186M	1.372
17) 1,1-Dichloroethene	(1)	3.703	61	480623	1.937
18) Freon 113	(1)	3.746	103	294382	1.892
19) Acetone	(1)	3.831	43	333219	2.236
20) Methyl Iodide	(1)	3.892	142	338894	1.870
21) Carbon Disulfide	(1)	3.977	76	759370	1.901
22) Isopropanol	(1)	4.098	45	395945M	1.807
23) Acetonitrile	(1)	4.208	40	185366	2.896
24) 3-Chloropropene	(1)	4.257	76	129257	2.072
25) Methylene Chloride	(1)	4.439	84	255709	2.308
26) tert-Butyl Alcohol	(1)	4.780	59	403843	2.116
27) Acrylonitrile	(1)	4.883	53	238813	2.066
28) trans-1,2-Dichloroethene	(1)	4.932	61	619711	2.211
29) Methyl t-Butyl Ether	(1)	5.029	73	398893	1.942
30) Hexane	(1)	5.516	57	344578	1.938
31) 1,1-Dichloroethane	(1)	5.704	63	520213	2.270
32) Vinyl Acetate	(1)	5.923	86	12481	1.169
33) Di-Isopropyl Ether	(1)	5.996	45	462011	1.879
36) 1,2-Dichloroethene (total)	(1)		61	1012894	4.560
34) Ethyl Tert-Butyl Ether	(1)	6.678	59	275949	1.670
35) cis-1,2-Dichloroethene	(1)	6.793	61	393183	2.349
37) 2-Butanone	(1)	6.909	72	53268M	1.904
38) Ethyl Acetate	(1)	7.085	70	31728M	1.971

M = Compound was manually integrated.

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 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00464.d  
 Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.116	55	234649	1.880
40) *Bromochloromethane	(1)	7.219	130	727793	10.000
41) Tetrahydrofuran	(1)	7.390	42	174940	1.789
42) Chloroform	(1)	7.420	83	540982	2.383
43) 1,1,1-Trichloroethane	(1)	7.718	97	473534	2.367
44) Cyclohexane	(1)	7.828	56	403721	2.040
45) Carbon Tetrachloride	(1)	8.034	117	474221	2.372
46) Benzene	(2)	8.412	78	685005	2.313
47) 1,2-Dichloroethane	(2)	8.442	62	449014	2.346
48) Isooctane	(2)	8.667	57	1095775	2.190
49) Tert-Amyl Methyl Ether	(2)	8.764	73	252286	1.765
50) Heptane	(2)	9.075	43	493995	2.071
51) *1,4-Difluorobenzene	(2)	9.215	114	2662834	10.000
52) Trichloroethene	(2)	9.677	130	236608	2.139
53) Ethyl Acrylate	(2)	10.048	55	250273	1.752
54) 1,2-Dichloropropane	(2)	10.091	63	261778	2.068
55) Dibromomethane	(2)	10.304	174	162457	2.143
56) 1,4-Dioxane	(2)	10.486	88	70954	1.770
57) Methyl Methacrylate	(2)	10.498	69	119602	1.702
58) Bromodichloromethane	(2)	10.687	83	586487	2.343
59) cis-1,3-Dichloropropene	(2)	11.660	75	225910	1.628
60) 4-Methyl-2-Pentanone	(2)	12.092	43	328132	1.635
61) Toluene	(3)	12.366	91	514287	2.140
64) 1,3-Dichloropropene (total)	(3)		75	530712	3.641
62) Octane	(3)	12.822	43	520625	1.922
63) trans-1,3-Dichloropropene	(3)	12.907	75	304802	2.013
65) Ethyl Methacrylate	(3)	13.278	69	167482	1.498
66) 1,1,2-Trichloroethane	(3)	13.291	97	226322	2.145
67) Tetrachloroethene	(3)	13.583	166	217528	2.113
68) 2-Hexanone	(3)	14.009	43	364196	1.828
69) Dibromochloromethane	(3)	14.148	127	303082	2.030
70) 1,2-Dibromoethane	(3)	14.355	107	287553	2.000
71) *Chlorobenzene-d5	(3)	15.536	117	2456324	10.000
72) Chlorobenzene	(3)	15.602	112	418703	2.164
73) 1,1,1,2-Tetrachloroethane	(3)	15.846	131	213108	2.079
74) Ethylbenzene	(3)	15.967	91	507020	1.968
75) m/p-Xylene	(3)	16.278	91	349753	1.708
77) Xylene (total)	(3)		91	757280	3.579

\* = 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/HP09464.i/15sep22.b/ci00464.d  
 Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD002

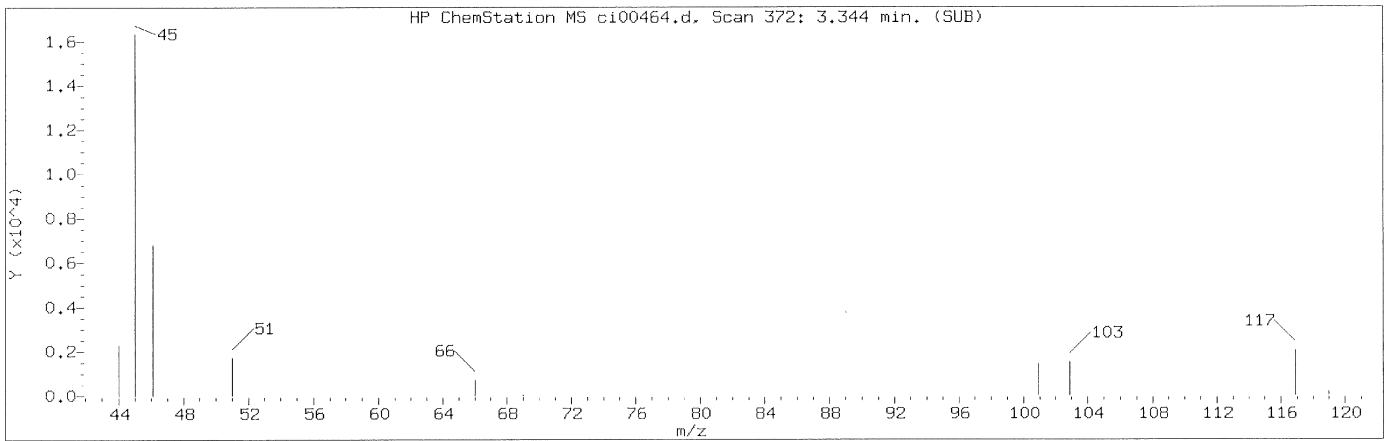
Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.251	91	407527	1.871
78) Styrene	(3)	17.294	104	321971	1.848
79) Bromoform	(3)	17.640	173	248858	1.809
80) Cumene	(3)	18.267	105	414505	1.706
81) Bromobenzene	(3)	18.888	156	182799	1.969
82) 1,1,2,2-Tetrachloroethane	(3)	19.046	83	520539	2.208
83) 1,2,3-Trichloropropane	(3)	19.082	110	115475	1.932
84) n-Propylbenzene	(3)	19.350	120	123586	1.747
85) 2-Chlorotoluene	(3)	19.465	126	148288	1.946
86) 4-Ethyltoluene	(3)	19.684	105	470757	1.787
87) 1,3,5-Trimethylbenzene	(3)	19.879	105	384879	1.755
88) Alpha Methyl Styrene	(3)	20.469	118	180372	1.674
89) tert-Butylbenzene	(3)	20.713	119	329872	1.672
90) 1,2,4-Trimethylbenzene	(3)	20.853	105	438938	1.844
91) sec-Butylbenzene	(3)	21.364	105	536354	1.707
92) 1,3-Dichlorobenzene	(3)	21.510	146	358166	2.020
93) 1,4-Dichlorobenzene	(3)	21.808	146	344249	1.910
94) p-Isopropyltoluene	(3)	21.869	119	432409	1.680
95) Benzyl Chloride	(3)	22.300	91	419919	1.554
96) 1,2-Dichlorobenzene	(3)	22.982	146	312253	1.904
97) n-Butylbenzene	(3)	23.183	91	505303	1.789
98) Hexachloroethane	(3)	23.645	117	241796	1.985
99) 1,2-Dibromo-3-chloropropane	(3)	24.716	157	142885	1.831
100) 1,2,4-Trichlorobenzene	(3)	26.005	180	161820	1.948
101) Hexachlorobutadiene	(3)	26.285	225	127178	1.570
102) Naphthalene	(3)	26.297	128	504039	2.140

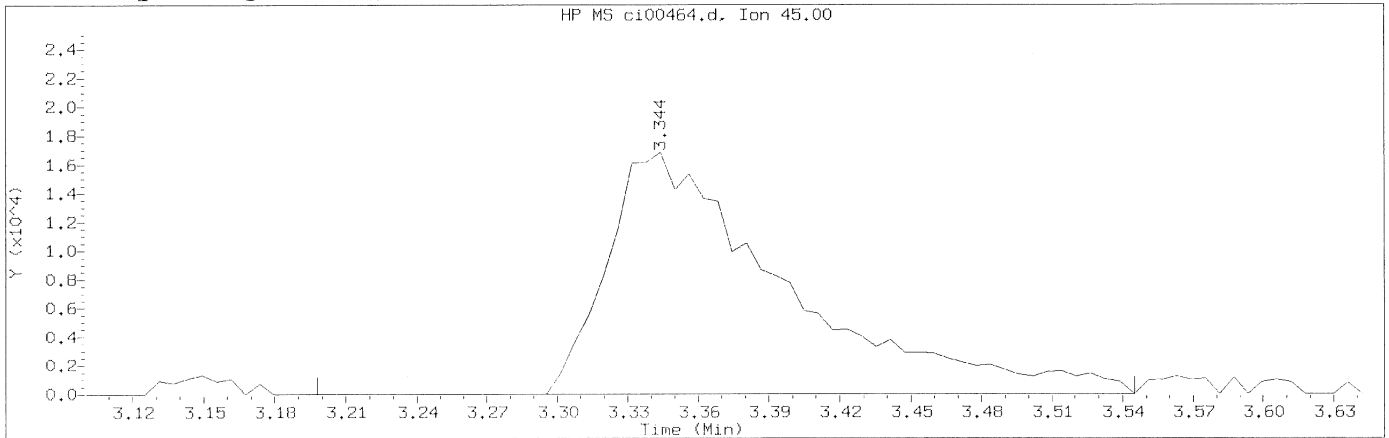
page 3 of 3

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d  
Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number : 14  
Compound Name : Ethanol  
Scan Number : 372  
Retention Time (minutes): 3.344  
Quant Ion : 45.00  
Area (flag) : 88532M  
Concentration (ppb(v)) : 1.1897  
Integration start scan : 347      Integration stop scan: 404  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

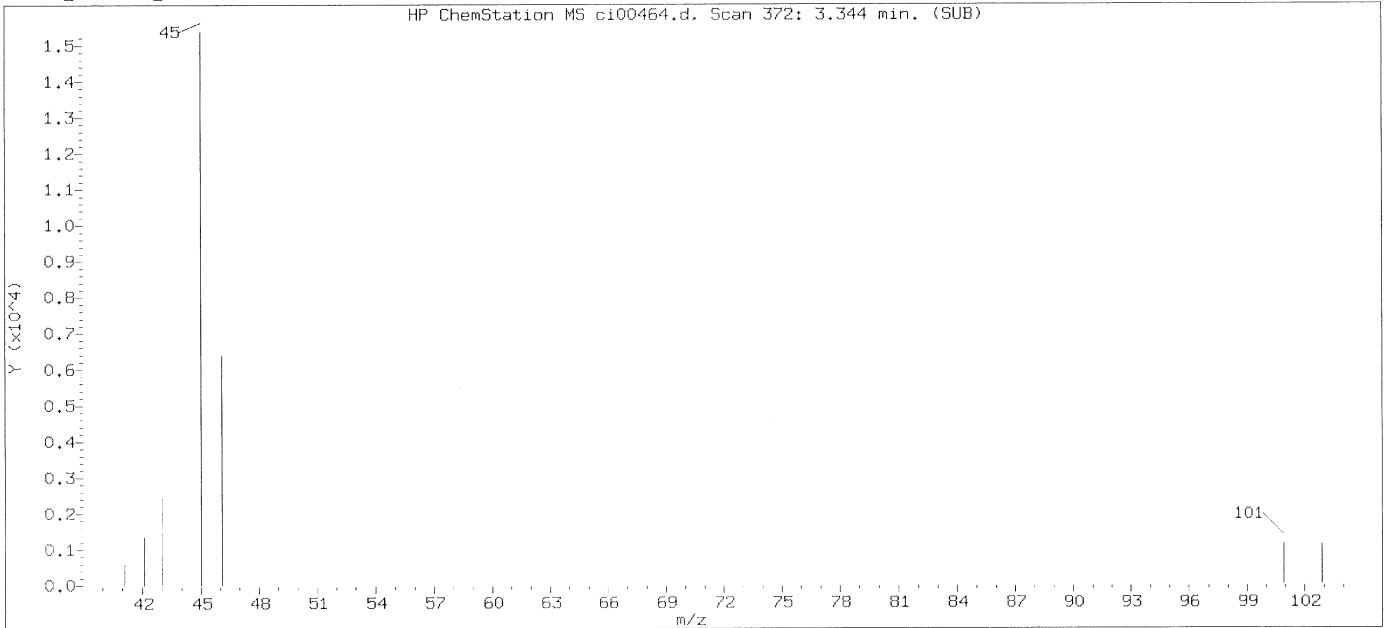
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: \_\_\_\_\_

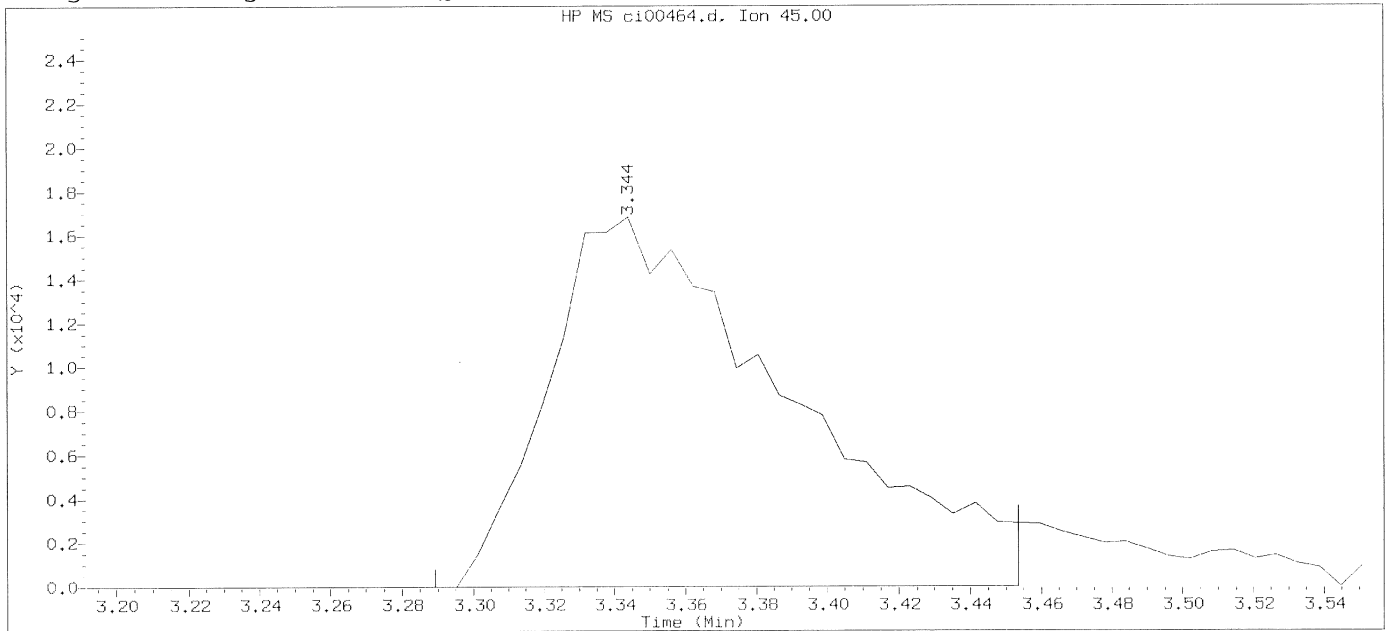
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 16:39

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 17:18 Automation

Sample Name: VSTD002

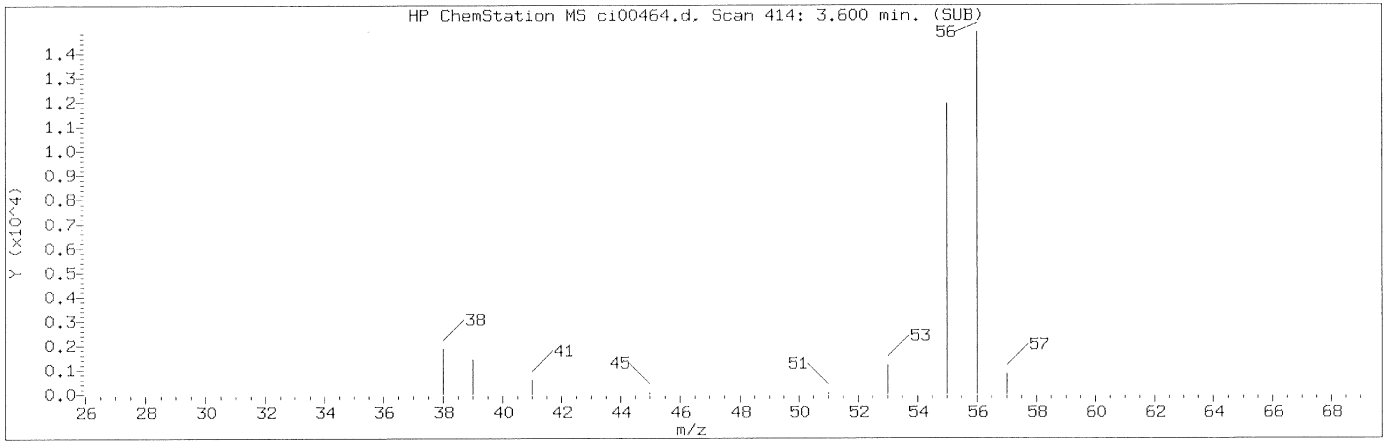
Lab Sample ID: VSTD002

Compound Number : 14  
Compound Name : Ethanol  
Scan Number : 372  
Retention Time (minutes): 3.344  
Quant Ion : 45.00  
Area : 79316  
Concentration (ppb(v)) : 1.1914  
Integration start scan : 362  
Y at integration start : 0

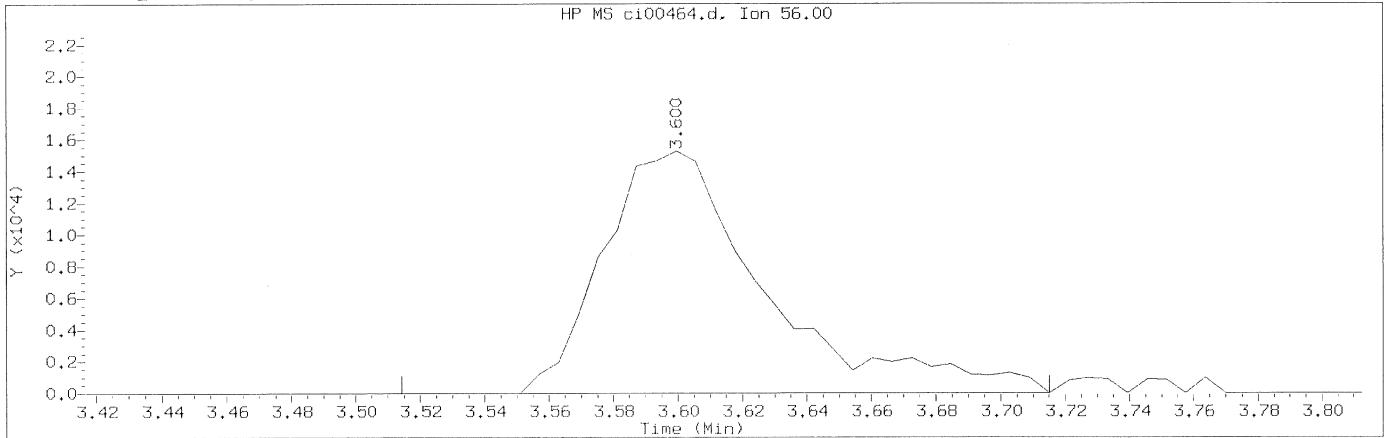
Integration stop scan: 389  
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d                      Instrument ID: HP09464.i  
 Injection date and time: 22-SEP-2015 16:39                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD002                      Lab Sample ID: VSTD002

Compound Number                      : 16  
 Compound Name                        : Acrolein  
 Scan Number                            : 414  
 Retention Time (minutes): 3.600  
 Quant Ion                                : 56.00  
 Area (flag)                             : 53186M  
 Concentration (ppb(v))               : 1.3720  
 Integration start scan                : 399                      Integration stop scan: 432  
 Y at integration start                 : 0                        Y at integration end: 0

Reason for manual integration: improper integration

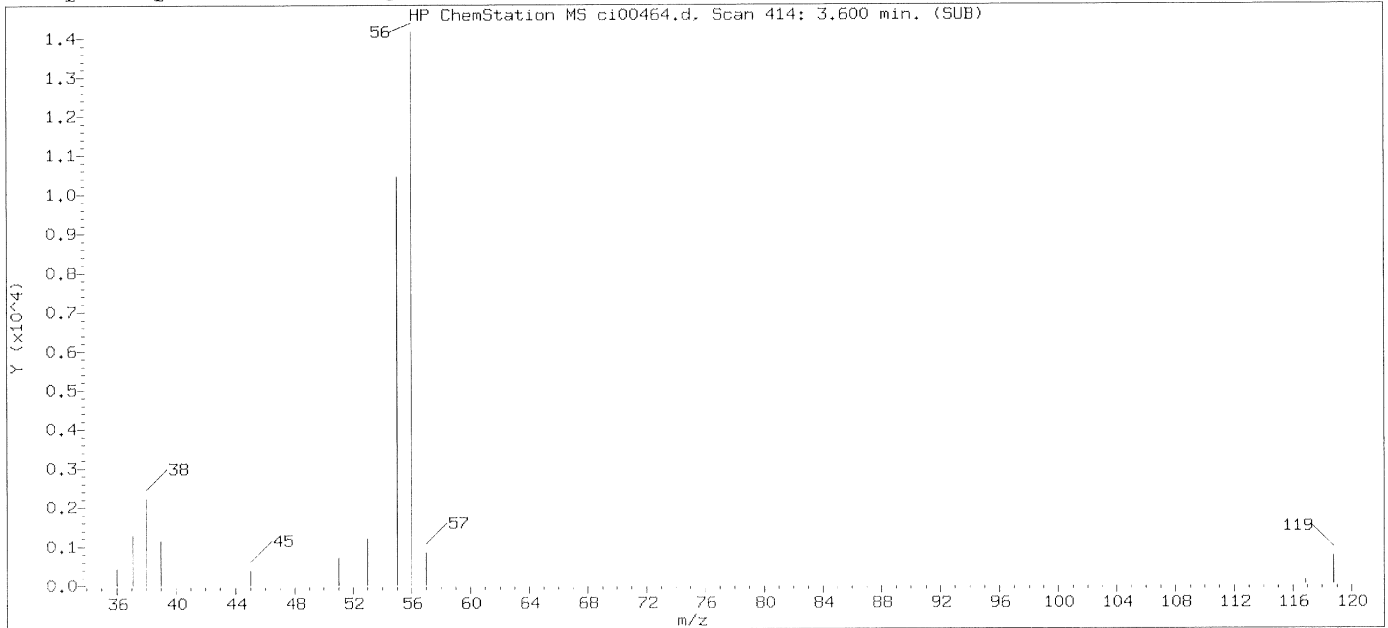
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
 Mark A. Ratcliff  
 Senior Specialist

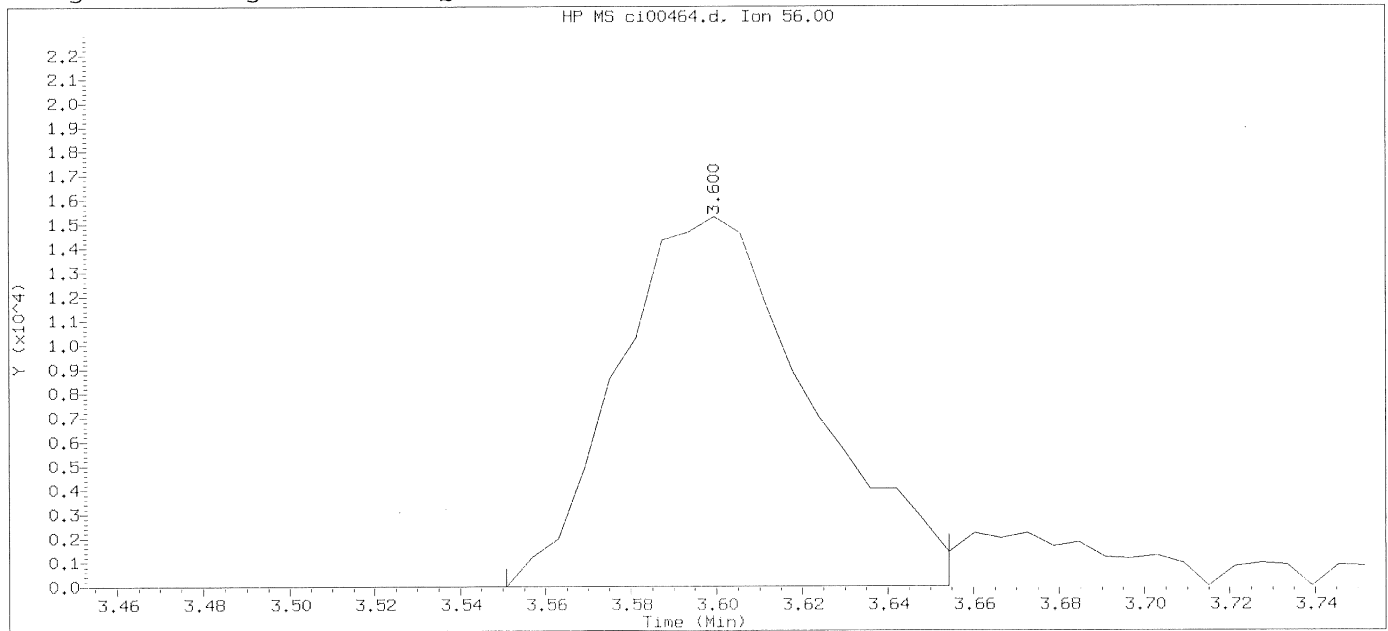
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 16:39

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 17:18 Automation

Sample Name: VSTD002

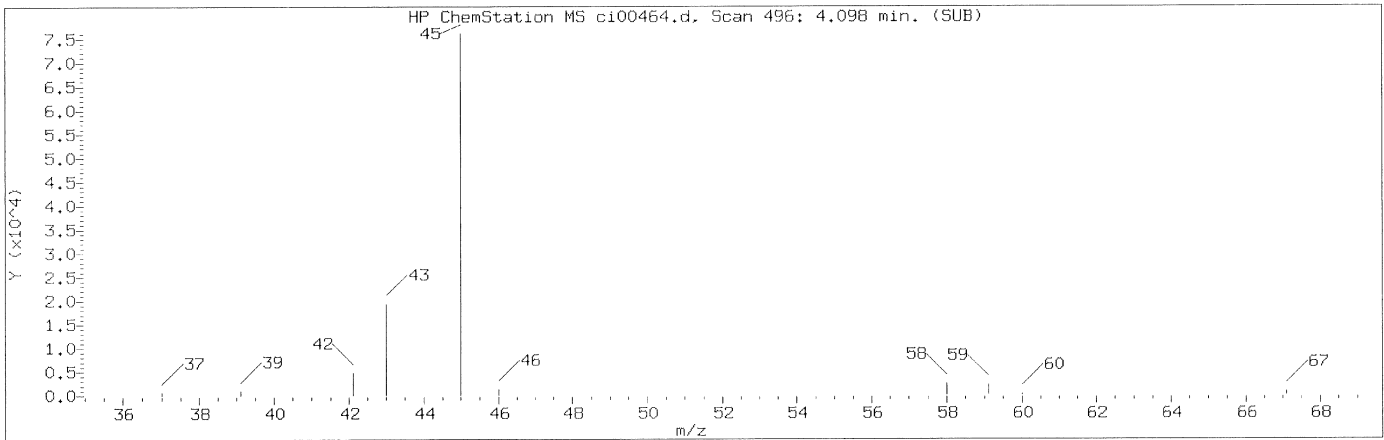
Lab Sample ID: VSTD002

Compound Number : 16  
Compound Name : Acrolein  
Scan Number : 414  
Retention Time (minutes): 3.600  
Quant Ion : 56.00  
Area : 47661  
Concentration (ppb(v)) : 1.8743  
Integration start scan : 405  
Y at integration start : 0

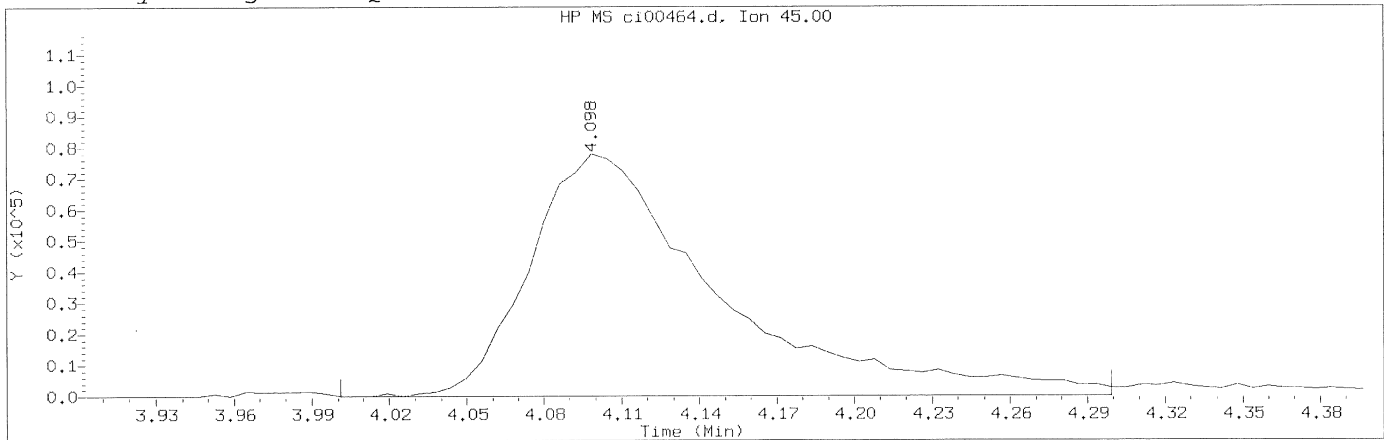
Integration stop scan: 422  
Y at integration end: 0

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Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d                      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 16:39                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD002    Lab Sample ID: VSTD002

Compound Number                      : 22  
Compound Name                         : Isopropanol  
Scan Number                            : 496  
Retention Time (minutes): 4.098  
Quant Ion                                : 45.00  
Area (flag)                             : 395945M  
Concentration (ppb(v))                : 1.8066  
Integration start scan                : 479                      Integration stop scan: 528  
Y at integration start                 : 0                        Y at integration end: 0

Reason for manual integration: improper integration

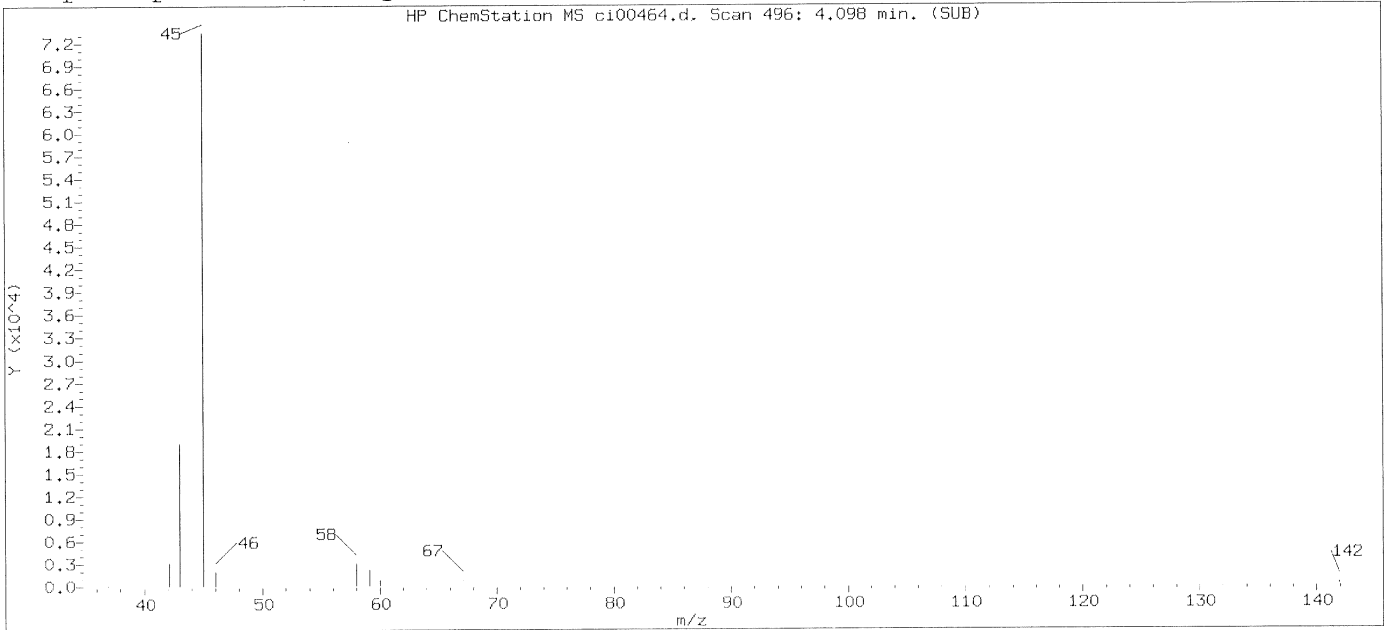
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 Resolution user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
**SEP 25 2015**

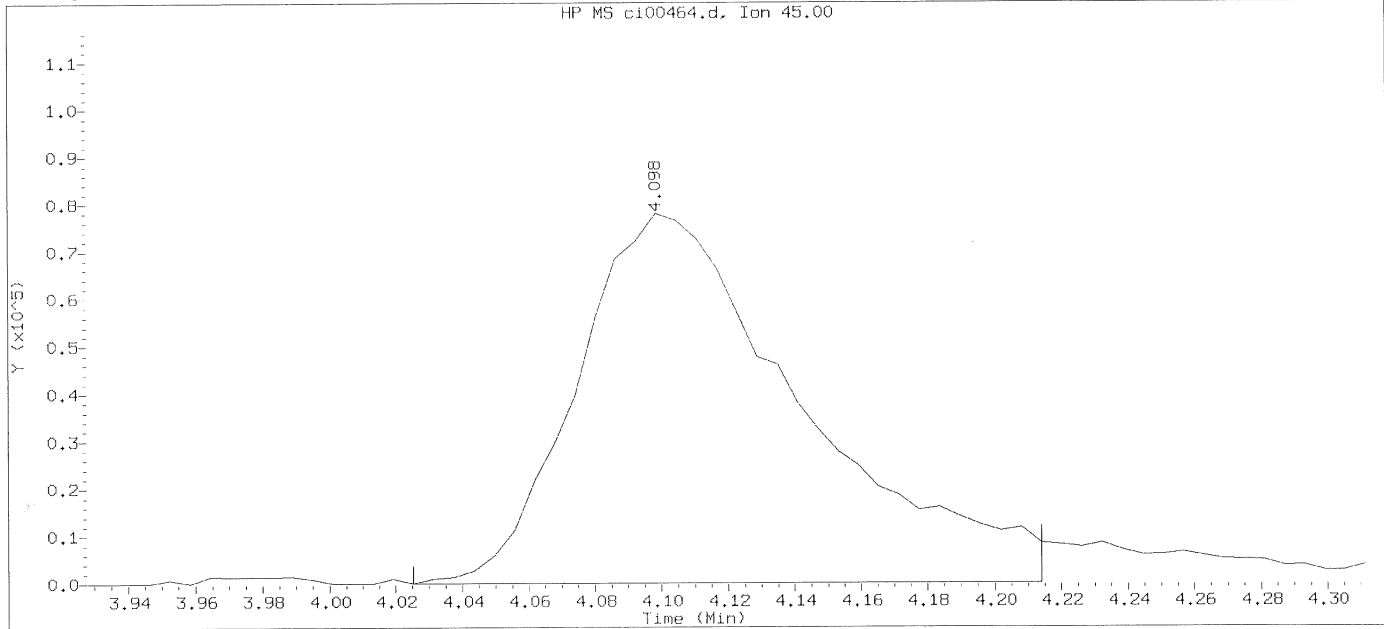
GC/MS audit/management approval: \_\_\_\_\_



Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d  
Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 22-SEP-2015 11:37  
Date, time and analyst ID of latest file update: 22-Sep-2015 17:18 Automation

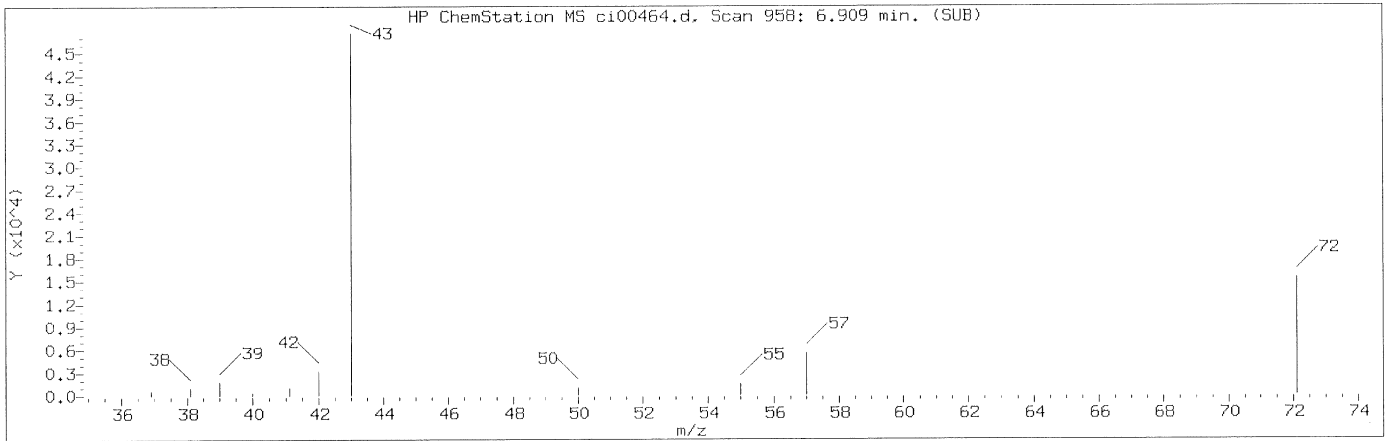
Sample Name: VSTD002

Lab Sample ID: VSTD002

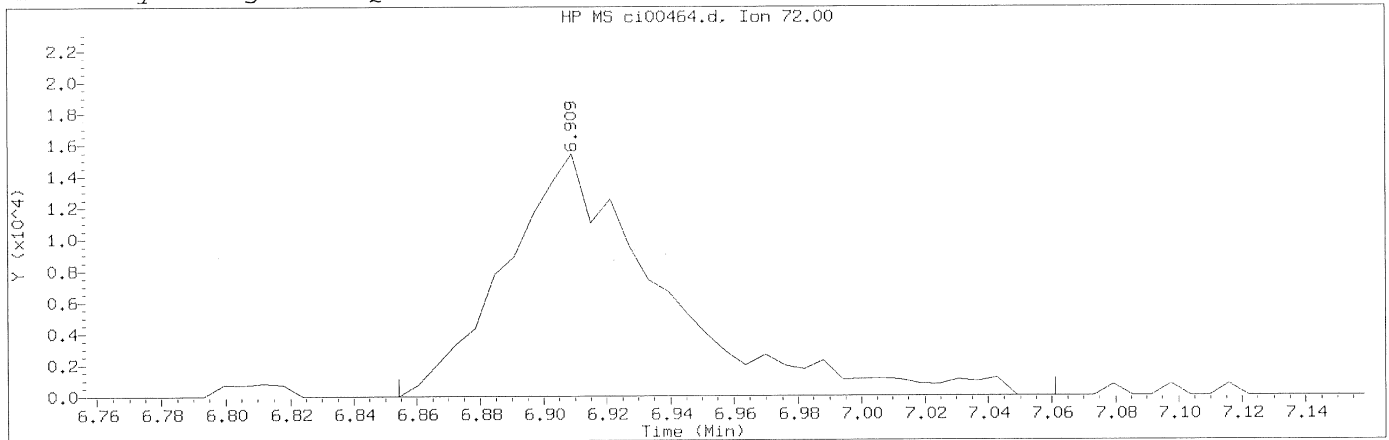
Compound Number : 22  
Compound Name : Isopropanol  
Scan Number : 496  
Retention Time (minutes): 4.098  
Quant Ion : 45.00  
Area : 365005  
Concentration (ppb(v)) : 2.0913  
Integration start scan : 483  
Integration stop scan: 514  
Y at integration start : 0  
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d  
Injection date and time: 22-SEP-2015 16:39

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 958  
Retention Time (minutes): 6.909  
Quant Ion : 72.00  
Area (flag) : 53268M  
Concentration (ppb(v)) : 1.9035  
Integration start scan : 948      Integration stop scan: 982  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

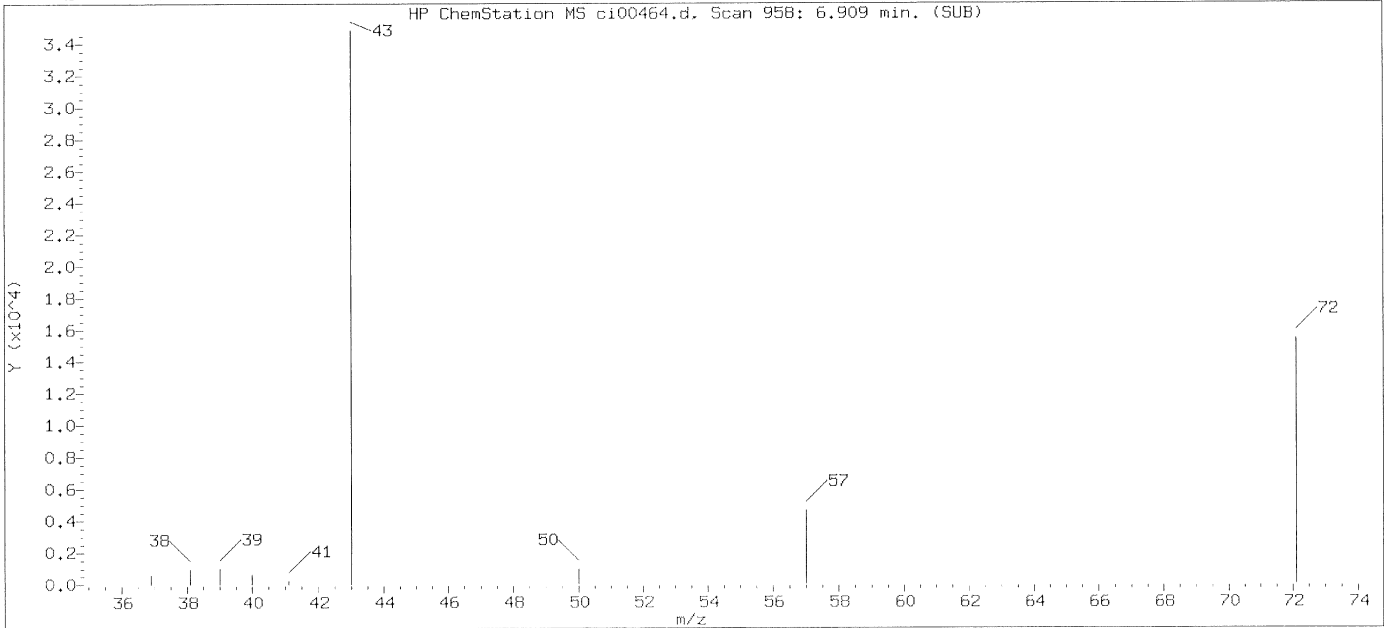
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

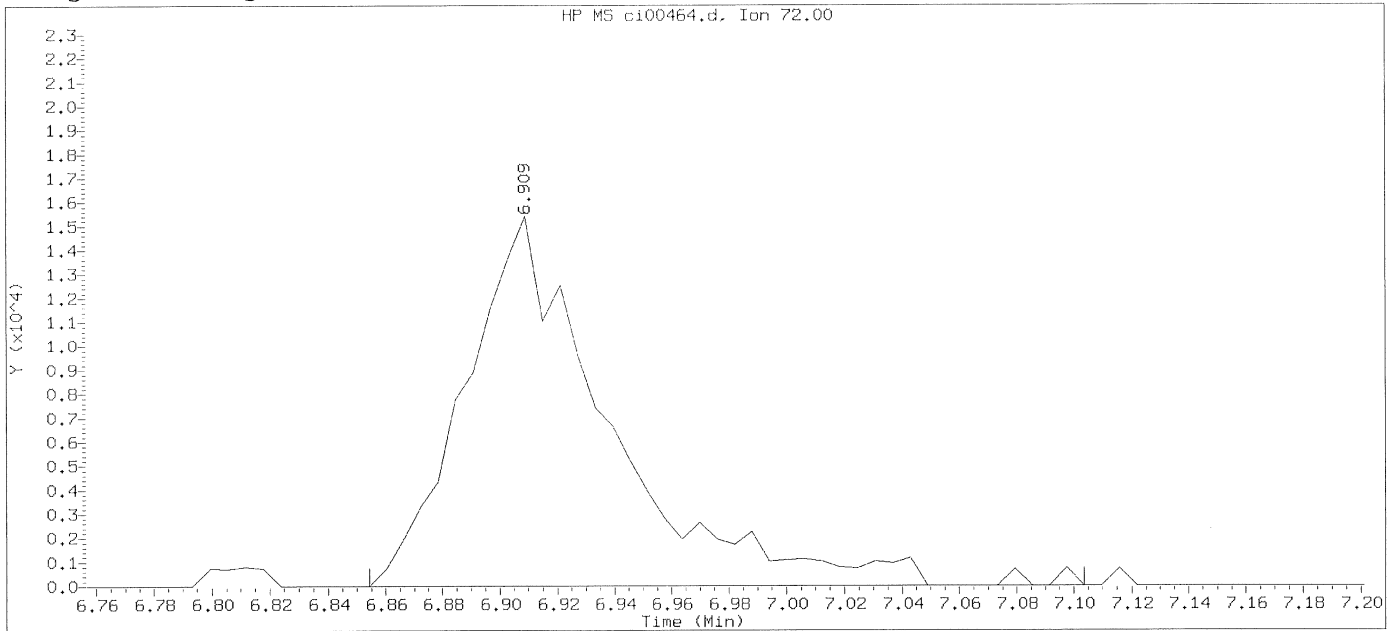
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 16:39

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 17:18 Automation

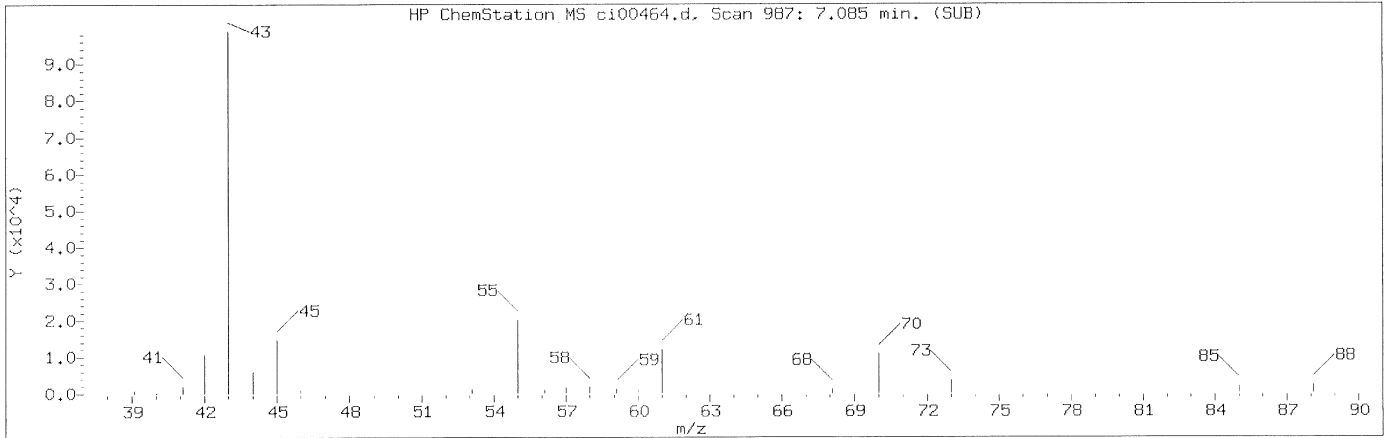
Sample Name: VSTD002

Lab Sample ID: VSTD002

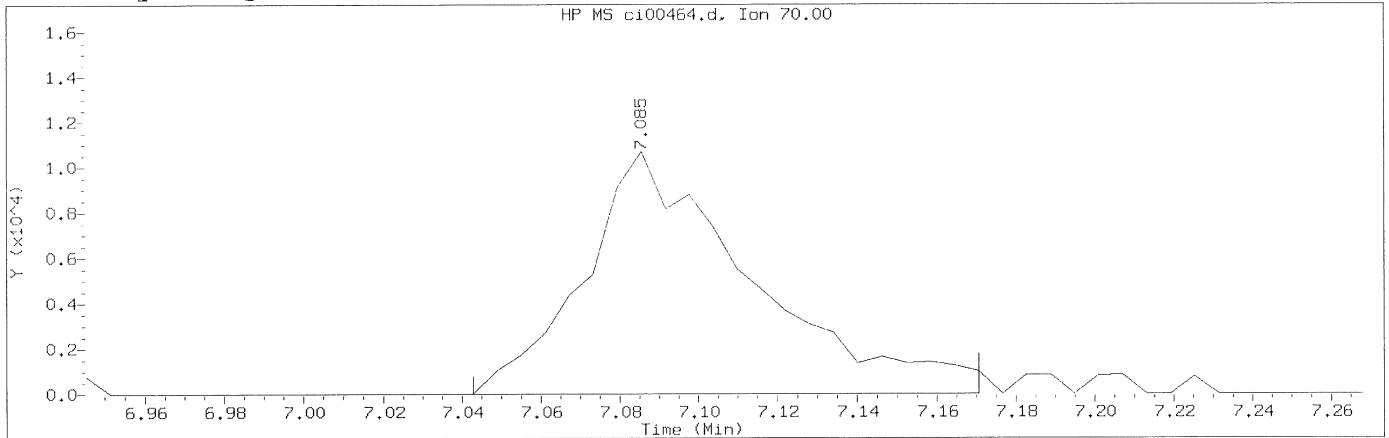
Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 958  
Retention Time (minutes): 6.909  
Quant Ion : 72.00  
Area : 53797  
Concentration (ppb(v)) : 2.0219  
Integration start scan : 948 Integration stop scan: 989  
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00464.d      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 16:39      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD002      Lab Sample ID: VSTD002

Compound Number           : 38  
Compound Name             : Ethyl Acetate  
Scan Number                : 987  
Retention Time (minutes): 7.085  
Quant Ion                   : 70.00  
Area (flag)                 : 31728M  
Concentration (ppb(v))    : 1.9707  
Integration start scan    : 979      Integration stop scan: 1000  
Y at integration start    : 0         Y at integration end: 0

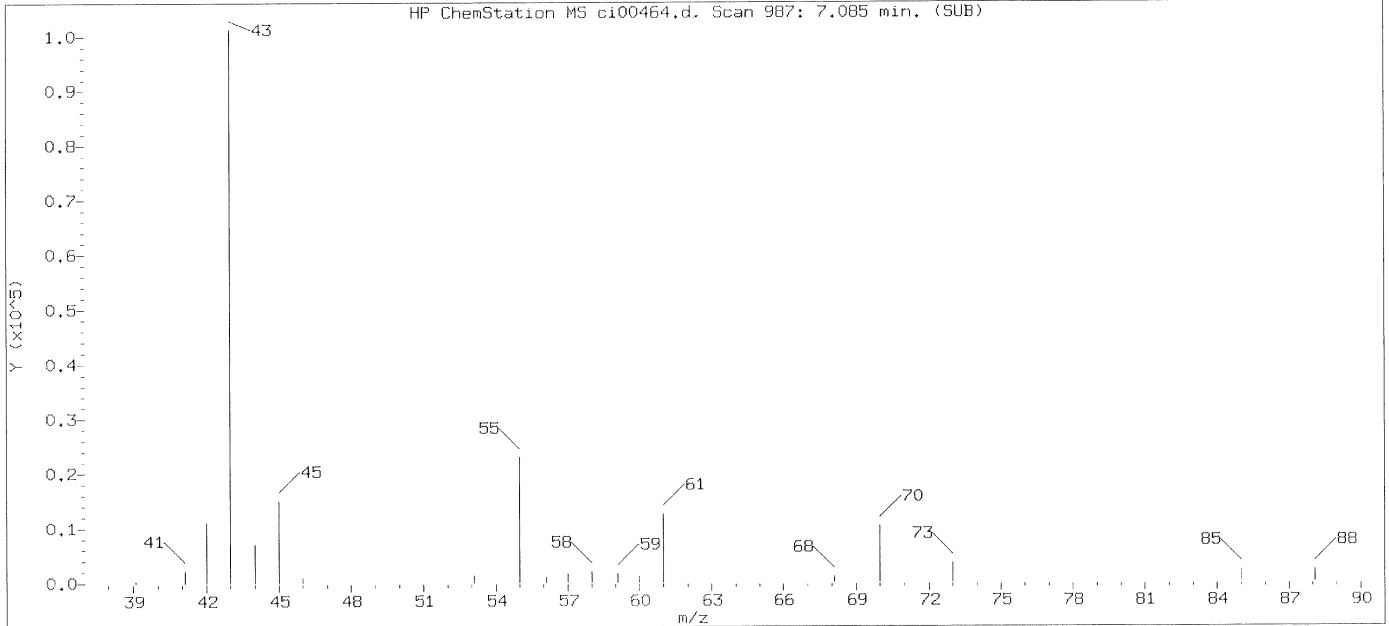
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 signature user ID: jbs01304

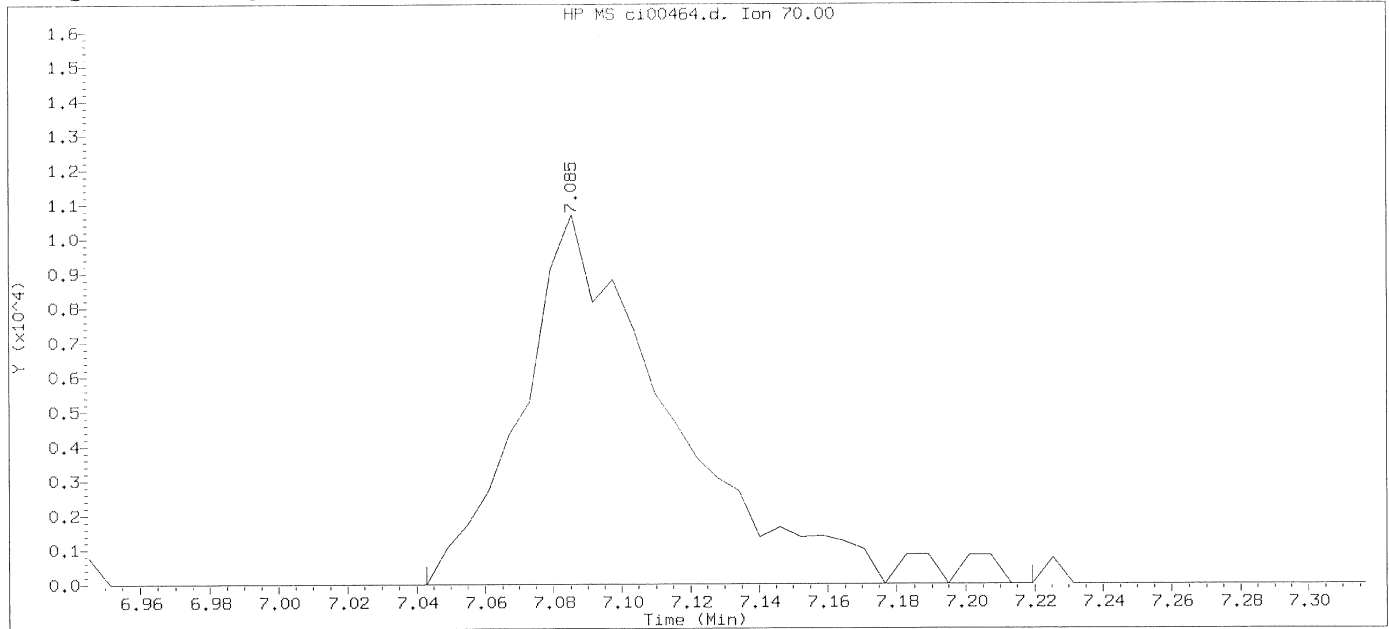
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



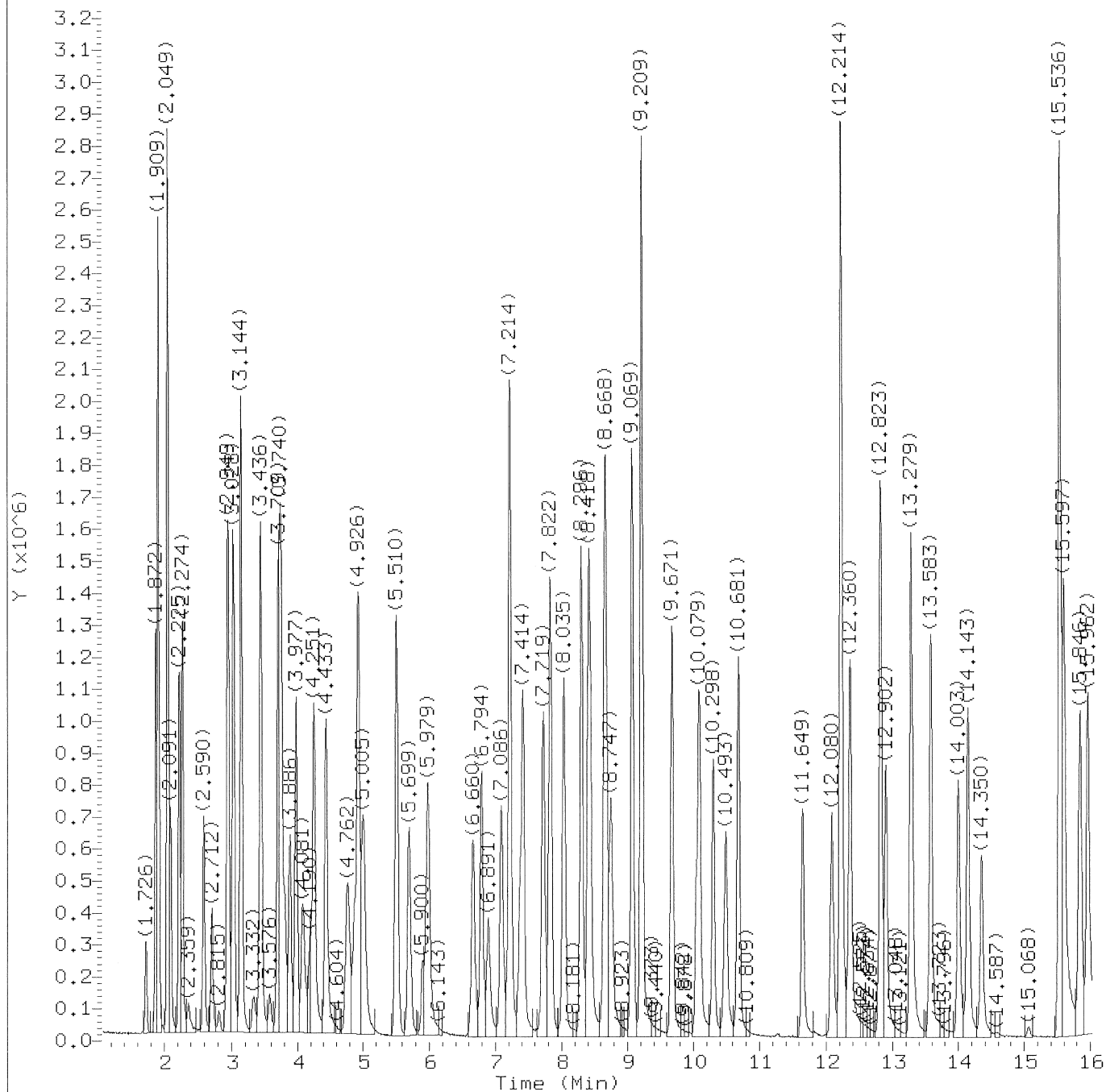
Data File: /chem/HP09464.i/15sep22.b/ci00464.d                      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 16:39                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
Calibration date and time: 22-SEP-2015 11:37  
Date, time and analyst ID of latest file update: 22-Sep-2015 17:18 Automation

Sample Name: VSTD002    Lab Sample ID: VSTD002

Compound Number                      : 38  
Compound Name                         : Ethyl Acetate  
Scan Number                            : 987  
Retention Time (minutes): 7.085  
Quant Ion                               : 70.00  
Area                                     : 32963  
Concentration (ppb(v))               : 2.3771  
Integration start scan                : 979                      Integration stop scan: 1008  
Y at integration start                : 0                        Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00465.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 17:21

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 23-SEP-2015 09:08

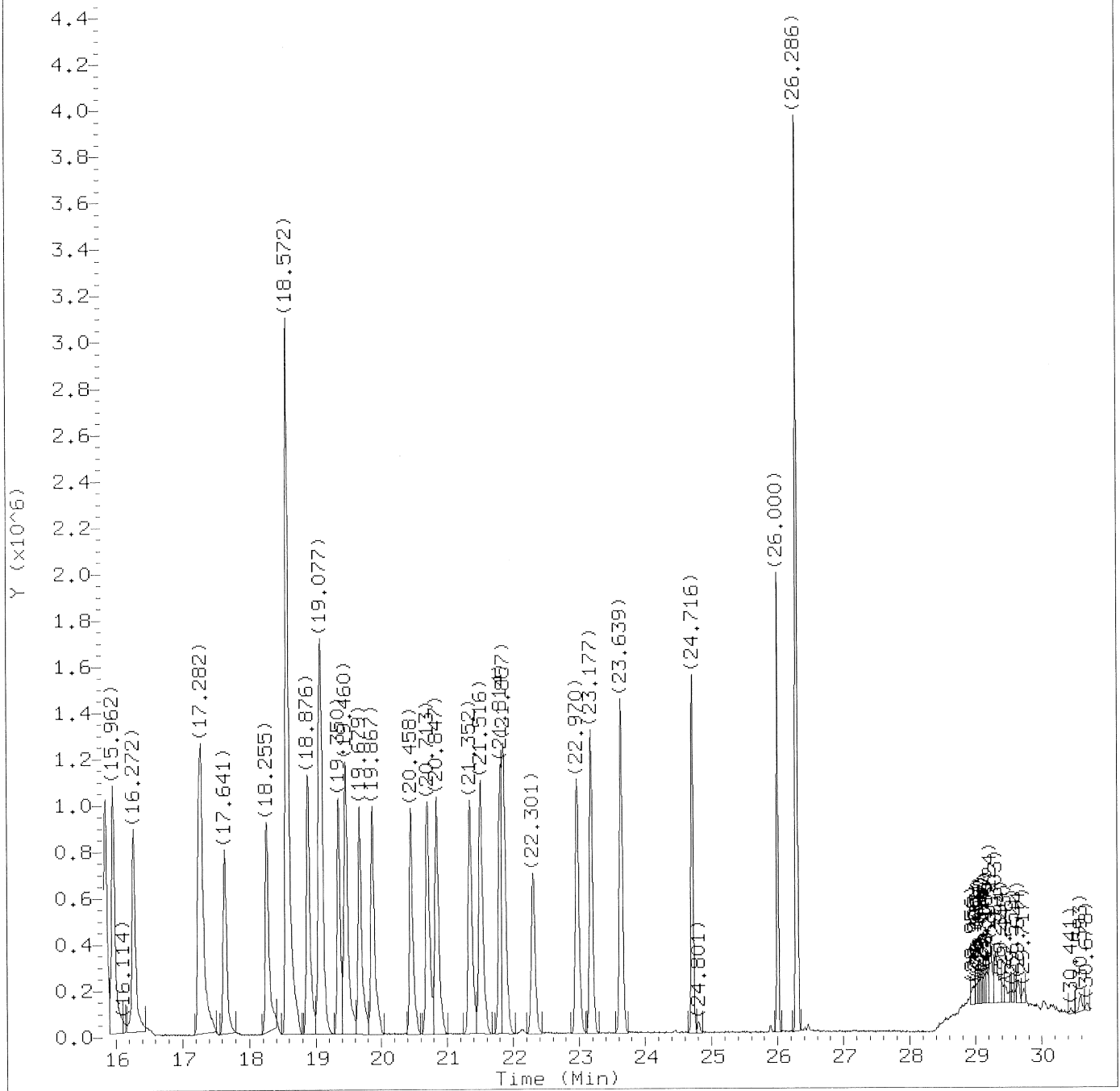
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD005

Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
 Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.872	41	629513	4.860
2) Dichlorodifluoromethane	(1)	1.903	85	1608437	4.873
3) Chlorodifluoromethane	(1)	1.915	51	1389652	4.950
4) Freon 114	(1)	2.049	85	1437944	4.856
5) Chloromethane	(1)	2.091	52	286340	4.809
6) Vinyl Chloride	(1)	2.225	62	732504	4.883
7) 1,3-Butadiene	(1)	2.274	54	606446	4.800
8) Bromomethane	(1)	2.590	94	527733	4.448
9) Chloroethane	(1)	2.712	64	411996	4.331
10) Bromoethene	(1)	2.937	106	471254	4.724
11) Dichlorofluoromethane	(1)	2.955	67	1754770	4.774
12) Trichlorofluoromethane	(1)	3.028	101	1636741	4.759
13) Pentane	(1)	3.144	43	1664203	5.322
14) Ethanol	(1)	3.320	45	217423	2.765
15) Freon123a	(1)	3.436	67	1513574	5.024
16) Acrolein	(1)	3.576	56	137284M	3.351
17) 1,1-Dichloroethene	(1)	3.697	61	1290834	4.922
18) Freon 113	(1)	3.740	103	716343	4.357
19) Acetone	(1)	3.807	43	807499	5.127
20) Methyl Iodide	(1)	3.886	142	909572	4.750
21) Carbon Disulfide	(1)	3.977	76	2009359	4.761
22) Isopropanol	(1)	4.081	45	983302	4.246
23) Acetonitrile	(1)	4.190	40	230173M	3.403
24) 3-Chloropropene	(1)	4.245	76	328362	4.981
25) Methylene Chloride	(1)	4.433	84	613821	5.243
26) tert-Butyl Alcohol	(1)	4.768	59	1044205	5.177
27) Acrylonitrile	(1)	4.871	53	565738	4.632
28) trans-1,2-Dichloroethene	(1)	4.926	61	1481049	5.000
29) Methyl t-Butyl Ether	(1)	5.005	73	1087338	5.008
30) Hexane	(1)	5.510	57	906226	4.824
31) 1,1-Dichloroethane	(1)	5.699	63	1158970	4.787
32) Vinyl Acetate	(1)	5.893	86	40847	3.621
33) Di-Isopropyl Ether	(1)	5.979	45	1328166	5.112
36) 1,2-Dichloroethene (total)	(1)		61	2397818	10.183
34) Ethyl Tert-Butyl Ether	(1)	6.666	59	789235	4.519
35) cis-1,2-Dichloroethene	(1)	6.794	61	916769	5.183
37) 2-Butanone	(1)	6.891	72	147839M	4.999
38) Ethyl Acetate	(1)	7.080	70	83492	4.908

M = Compound was manually integrated.

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304



Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
 Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.104	55	657934	4.989
40) *Bromochloromethane	(1)	7.220	130	769073	10.000
41) Tetrahydrofuran	(1)	7.372	42	480453	4.649
42) Chloroform	(1)	7.420	83	1199187	4.999
43) 1,1,1-Trichloroethane	(1)	7.719	97	1055846	4.995
44) Cyclohexane	(1)	7.822	56	1051851	5.030
45) Carbon Tetrachloride	(1)	8.035	117	1067120	5.050
46) Benzene	(2)	8.406	78	1580705	4.964
47) 1,2-Dichloroethane	(2)	8.436	62	1005547	4.887
48) Isooctane	(2)	8.668	57	2823903	5.250
49) Tert-Amyl Methyl Ether	(2)	8.747	73	685498	4.460
50) Heptane	(2)	9.069	43	1308269M	5.101
51) *1,4-Difluorobenzene	(2)	9.209	114	2862913	10.000
52) Trichloroethene	(2)	9.671	130	528782	4.446
53) Ethyl Acrylate	(2)	10.036	55	714998	4.656
54) 1,2-Dichloropropane	(2)	10.085	63	653852	4.805
55) Dibromomethane	(2)	10.298	174	367956	4.514
56) 1,4-Dioxane	(2)	10.462	88	209363	4.859
57) Methyl Methacrylate	(2)	10.487	69	336751	4.457
58) Bromodichloromethane	(2)	10.675	83	1252107	4.653
59) cis-1,3-Dichloropropene	(2)	11.649	75	649959	4.358
60) 4-Methyl-2-Pentanone	(2)	12.080	43	995651	4.615
61) Toluene	(3)	12.360	91	1311336	5.389
64) 1,3-Dichloropropene (total)	(3)		75	1402853	9.267
62) Octane	(3)	12.823	43	1494062	5.447
63) trans-1,3-Dichloropropene	(3)	12.902	75	752894	4.909
65) Ethyl Methacrylate	(3)	13.267	69	515191	4.550
66) 1,1,2-Trichloroethane	(3)	13.279	97	533697	4.995
67) Tetrachloroethene	(3)	13.583	166	496035	4.759
68) 2-Hexanone	(3)	14.003	43	1149942	5.699
69) Dibromochloromethane	(3)	14.149	127	701043	4.636
70) 1,2-Dibromoethane	(3)	14.350	107	715926	4.916
71) *Chlorobenzene-d5	(3)	15.536	117	2487441	10.000
72) Chlorobenzene	(3)	15.597	112	967658	4.939
73) 1,1,1,2-Tetrachloroethane	(3)	15.846	131	505185	4.866
74) Ethylbenzene	(3)	15.962	91	1414041	5.419
75) m/p-Xylene	(3)	16.272	91	974069	4.698
77) Xylene (total)	(3)		91	2127768	9.929

M = Compound was manually integrated.

\* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
 Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

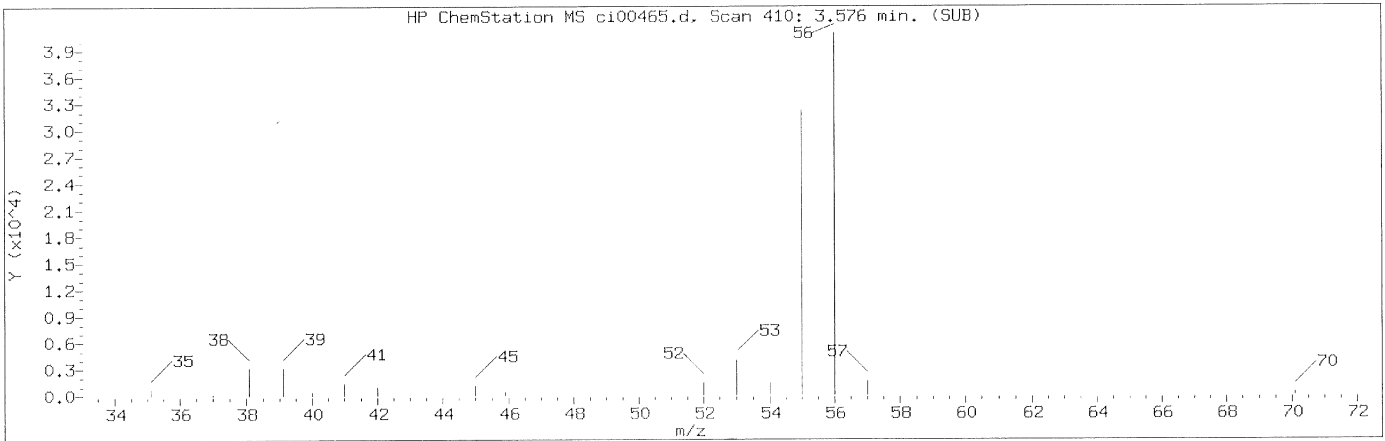
Sample Name: VSTD005

Lab Sample ID: VSTD005

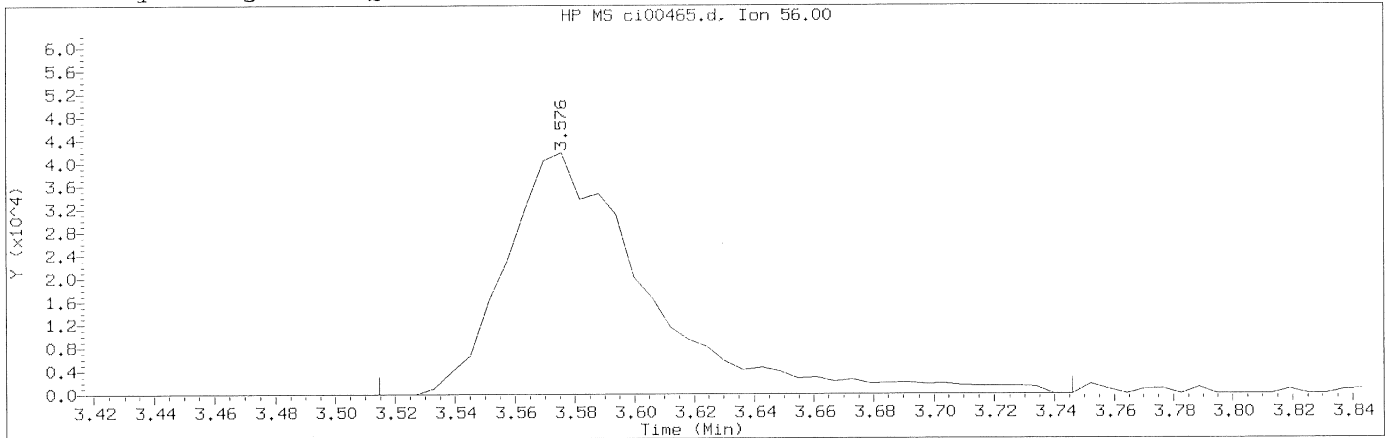
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.245	91	1153699	5.231
78) Styrene	(3)	17.294	104	897199	5.086
79) Bromoform	(3)	17.641	173	630326	4.524
80) Cumene	(3)	18.255	105	1235134	5.020
81) Bromobenzene	(3)	18.876	156	455316	4.844
82) 1,1,2,2-Tetrachloroethane	(3)	19.052	83	1261368	5.284
83) 1,2,3-Trichloropropane	(3)	19.083	110	280666	4.636
84) n-Propylbenzene	(3)	19.350	120	341265	4.765
85) 2-Chlorotoluene	(3)	19.460	126	380317	4.929
86) 4-Ethyltoluene	(3)	19.679	105	1342961	5.034
87) 1,3,5-Trimethylbenzene	(3)	19.867	105	1127722	5.079
88) Alpha Methyl Styrene	(3)	20.464	118	544178	4.988
89) tert-Butylbenzene	(3)	20.707	119	957243	4.793
90) 1,2,4-Trimethylbenzene	(3)	20.853	105	1209293	5.016
91) sec-Butylbenzene	(3)	21.352	105	1566869	4.924
92) 1,3-Dichlorobenzene	(3)	21.516	146	891432	4.964
93) 1,4-Dichlorobenzene	(3)	21.808	146	877218	4.807
94) p-Isopropyltoluene	(3)	21.869	119	1242758	4.769
95) Benzyl Chloride	(3)	22.301	91	1142714	4.177
96) 1,2-Dichlorobenzene	(3)	22.970	146	786445	4.734
97) n-Butylbenzene	(3)	23.177	91	1434956	5.016
98) Hexachloroethane	(3)	23.639	117	612102	4.963
99) 1,2-Dibromo-3-chloropropane	(3)	24.716	157	346980	4.391
100) 1,2,4-Trichlorobenzene	(3)	26.006	180	420341	4.996
101) Hexachlorobutadiene	(3)	26.286	225	382895	4.667
102) Naphthalene	(3)	26.298	128	1307865	5.482

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number : 16  
Compound Name : Acrolein  
Scan Number : 410  
Retention Time (minutes): 3.576  
Quant Ion : 56.00  
Area (flag) : 137284M  
Concentration (ppb(v)) : 3.3512  
Integration start scan : 399      Integration stop scan: 437  
Y at integration start : 0      Y at integration end: 0

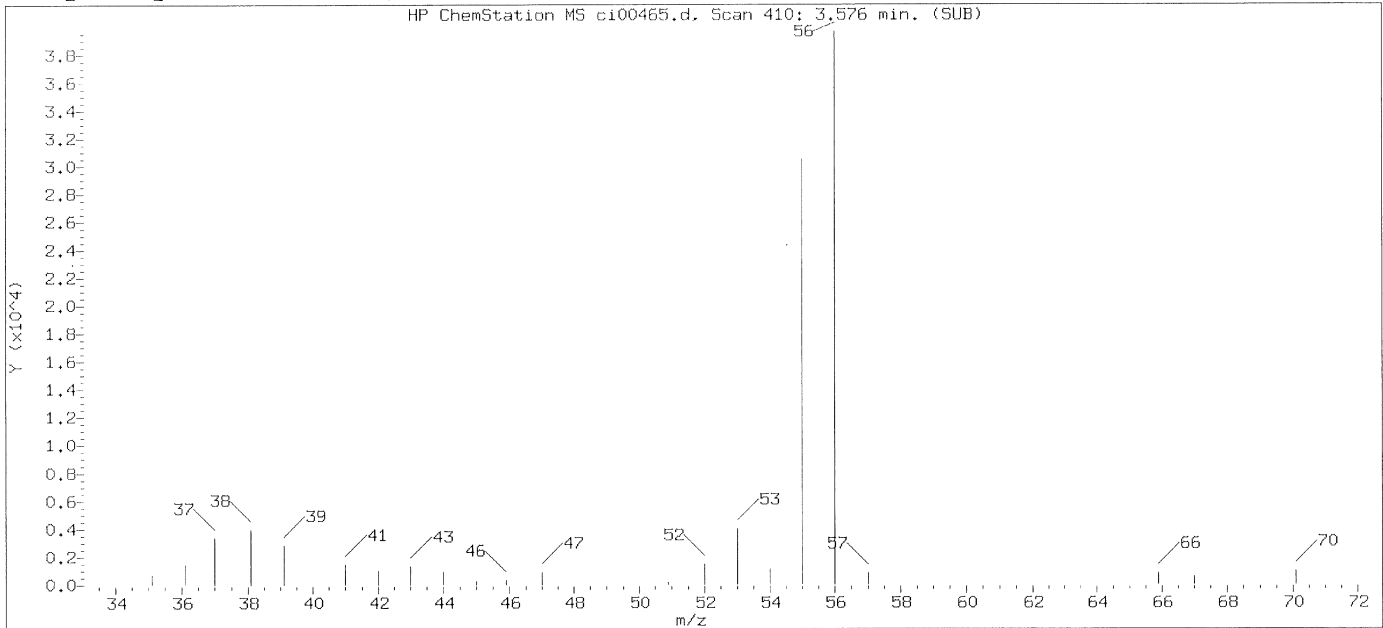
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

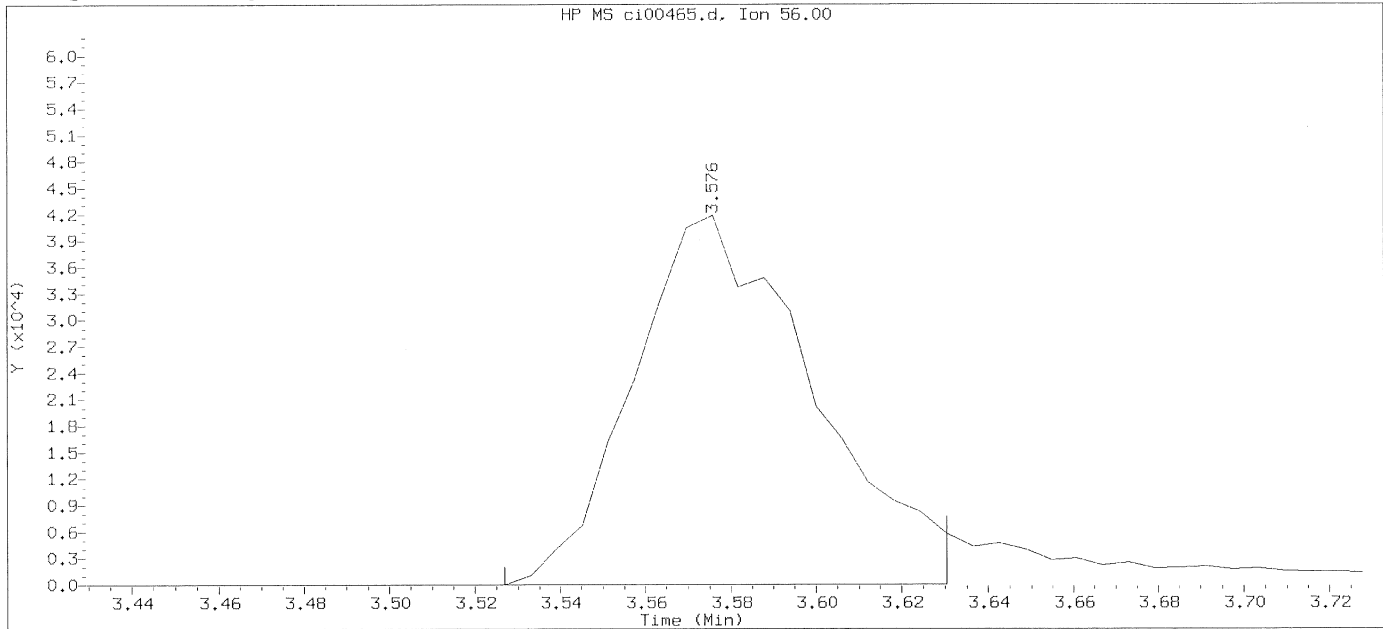
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
 Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 22-SEP-2015 11:37  
 Date, time and analyst ID of latest file update: 22-Sep-2015 18:01 Automation

Sublist used: all

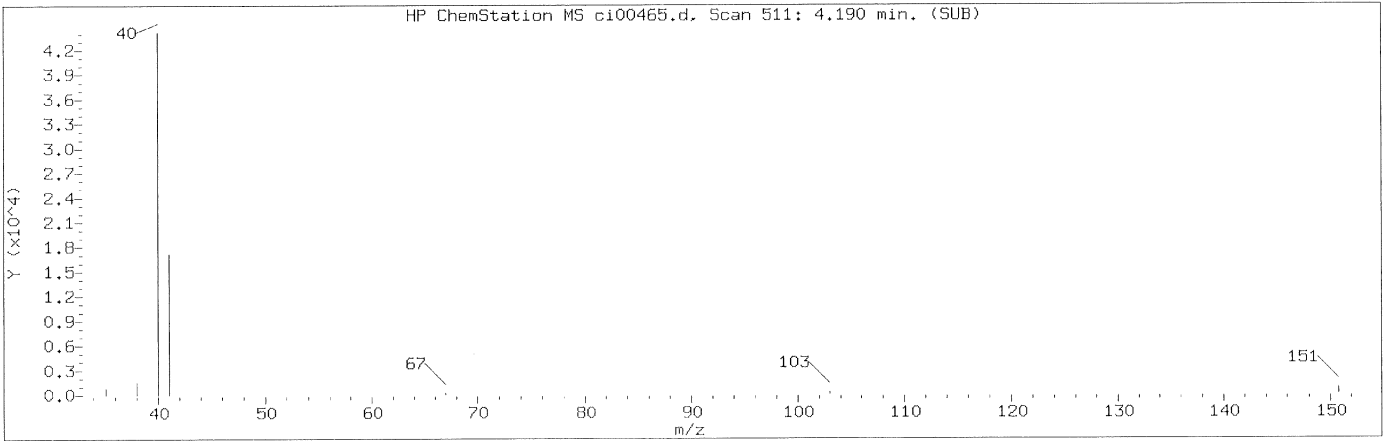
Sample Name: VSTD005

Lab Sample ID: VSTD005

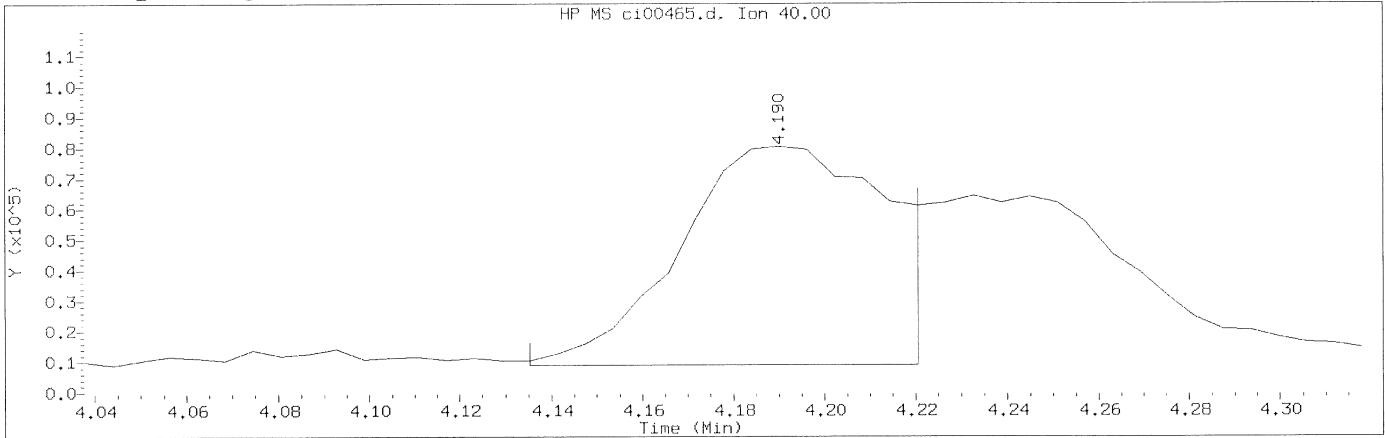
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 410		
Retention Time (minutes)	: 3.576		
Quant Ion	: 56.00		
Area	: 121843		
Concentration (ppb(v))	: 4.5345		
Integration start scan	: 401	Integration stop scan:	418
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number : 23  
Compound Name : Acetonitrile  
Scan Number : 511  
Retention Time (minutes): 4.190  
Quant Ion : 40.00  
Area (flag) : 230173M  
Concentration (ppb(v)) : 3.4026  
Integration start scan : 501      Integration stop scan: 515  
Y at integration start : 8813      Y at integration end: 8813

Reason for manual integration: improper integration

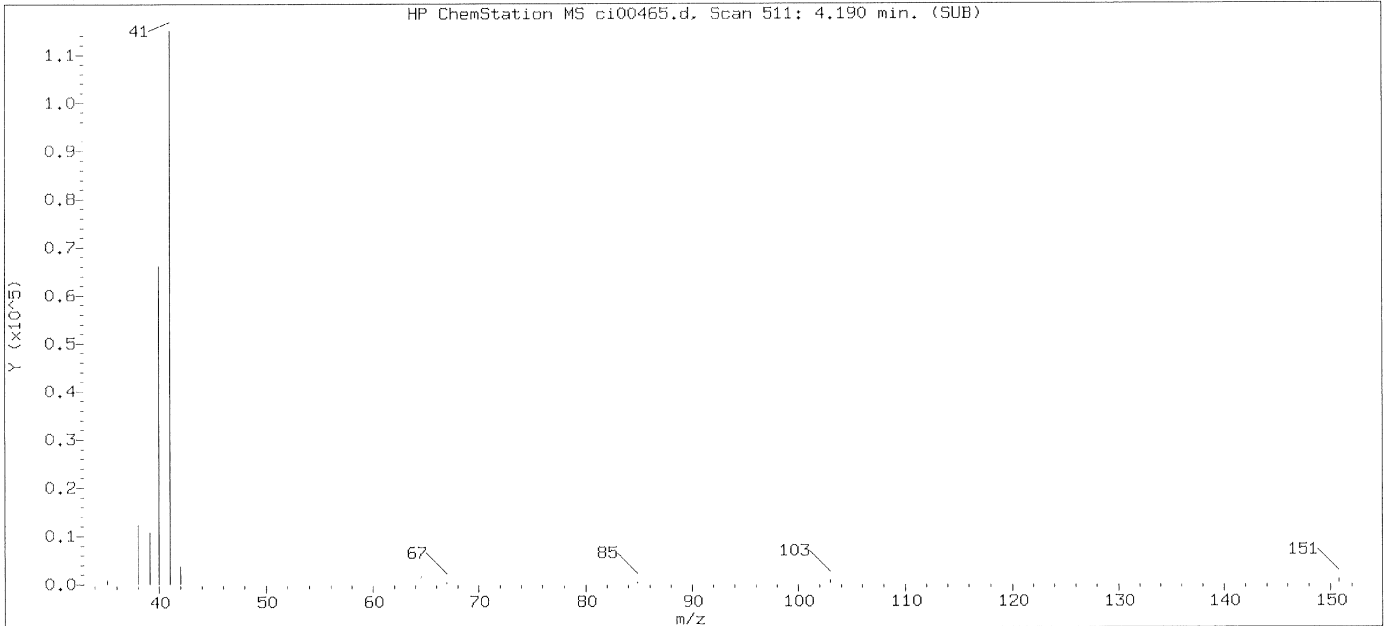
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: \_\_\_\_\_

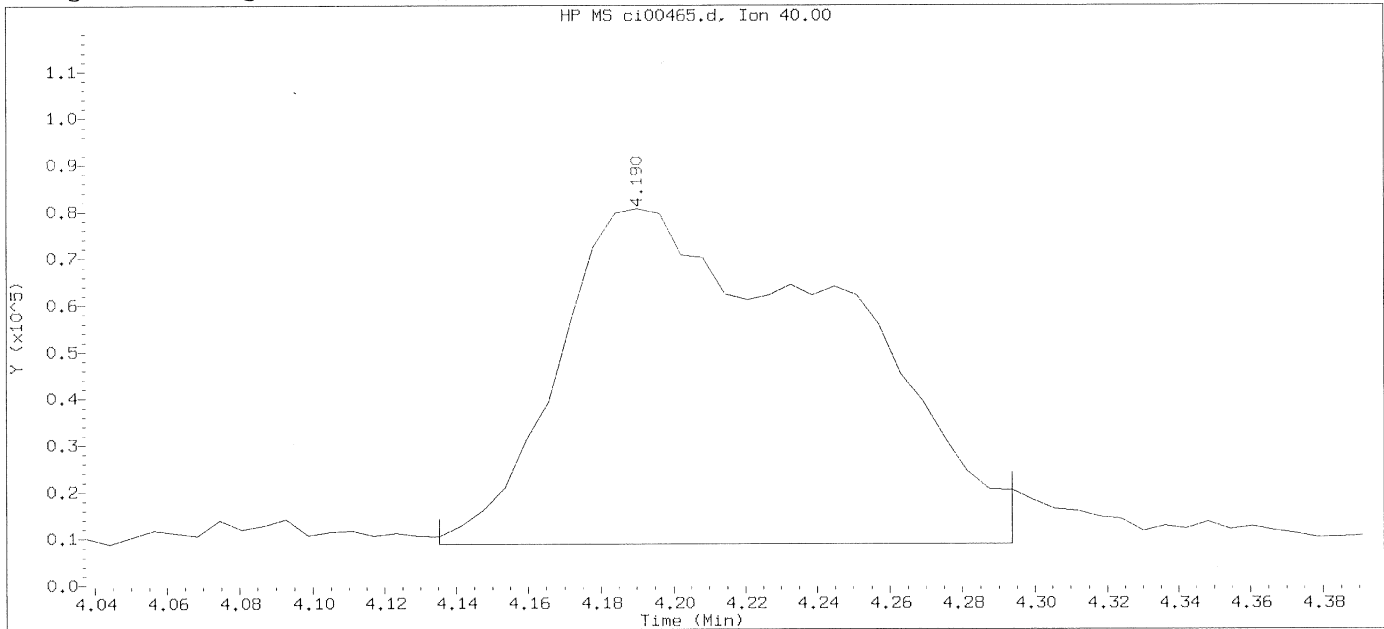
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 22-SEP-2015 11:37  
Date, time and analyst ID of latest file update: 22-Sep-2015 18:01 Automation

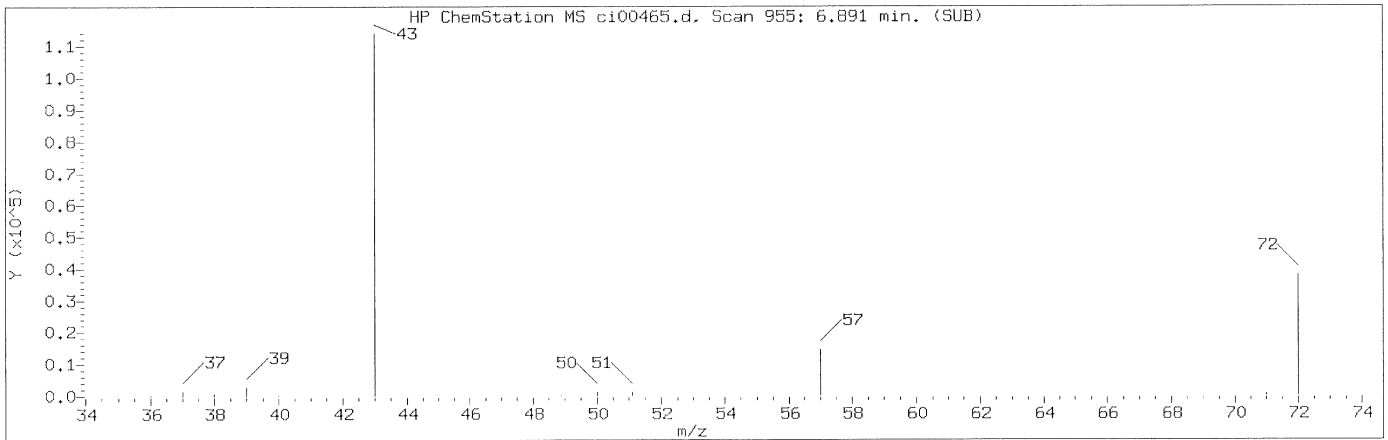
Sample Name: VSTD005

Lab Sample ID: VSTD005

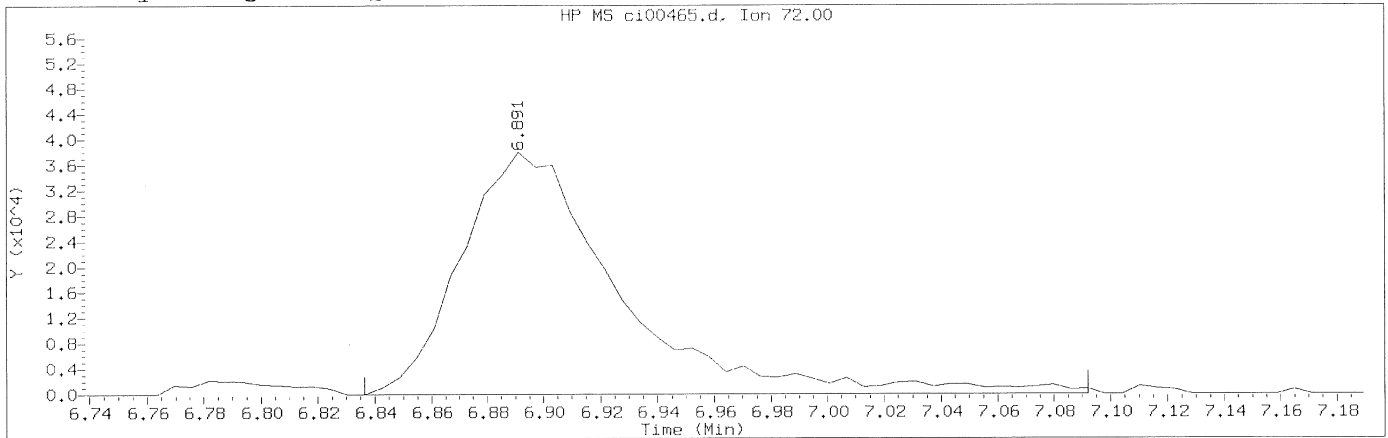
Compound Number : 23  
Compound Name : Acetonitrile  
Scan Number : 511  
Retention Time (minutes): 4.190  
Quant Ion : 40.00  
Area : 390216  
Concentration (ppb(v)) : 12.9508  
Integration start scan : 501 Integration stop scan: 527  
Y at integration start : 8813 Y at integration end: 8813

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number : 37  
Compound Name : 2-Butanone  
Scan Number : 955  
Retention Time (minutes): 6.891  
Quant Ion : 72.00  
Area (flag) : 147839M  
Concentration (ppb(v)) : 4.9994  
Integration start scan : 945      Integration stop scan: 987  
Y at integration start : 0      Y at integration end: 0

Reason for manual integration: improper integration

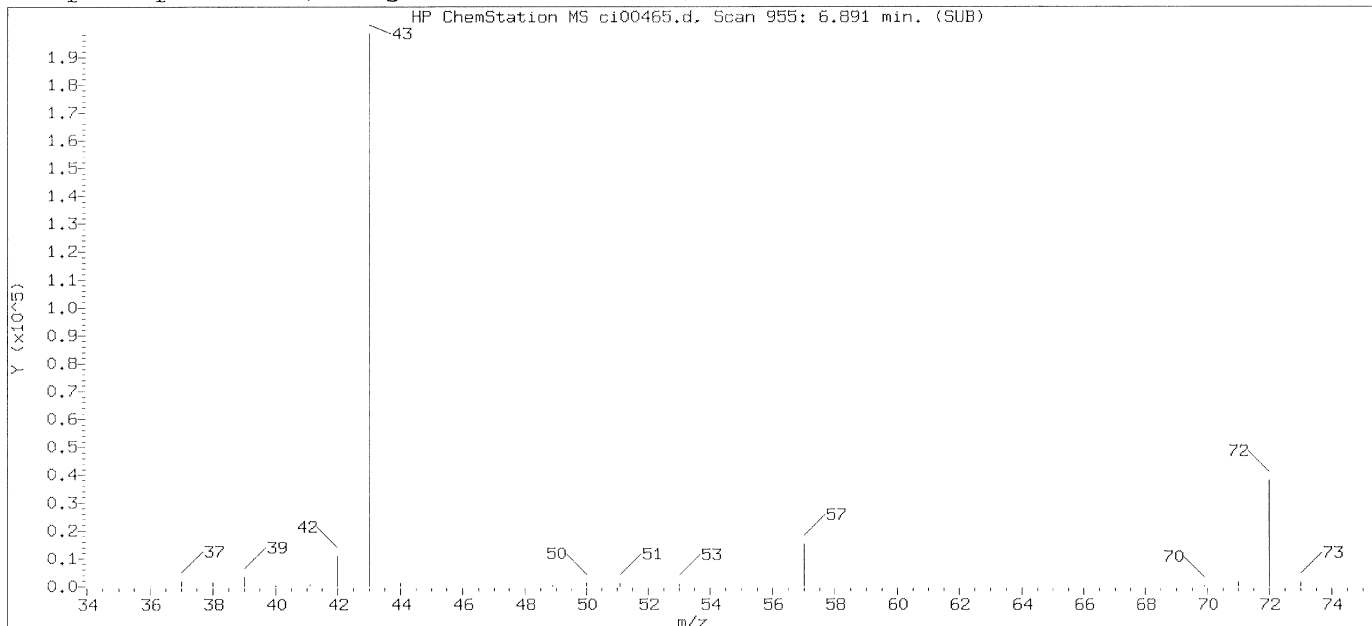
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

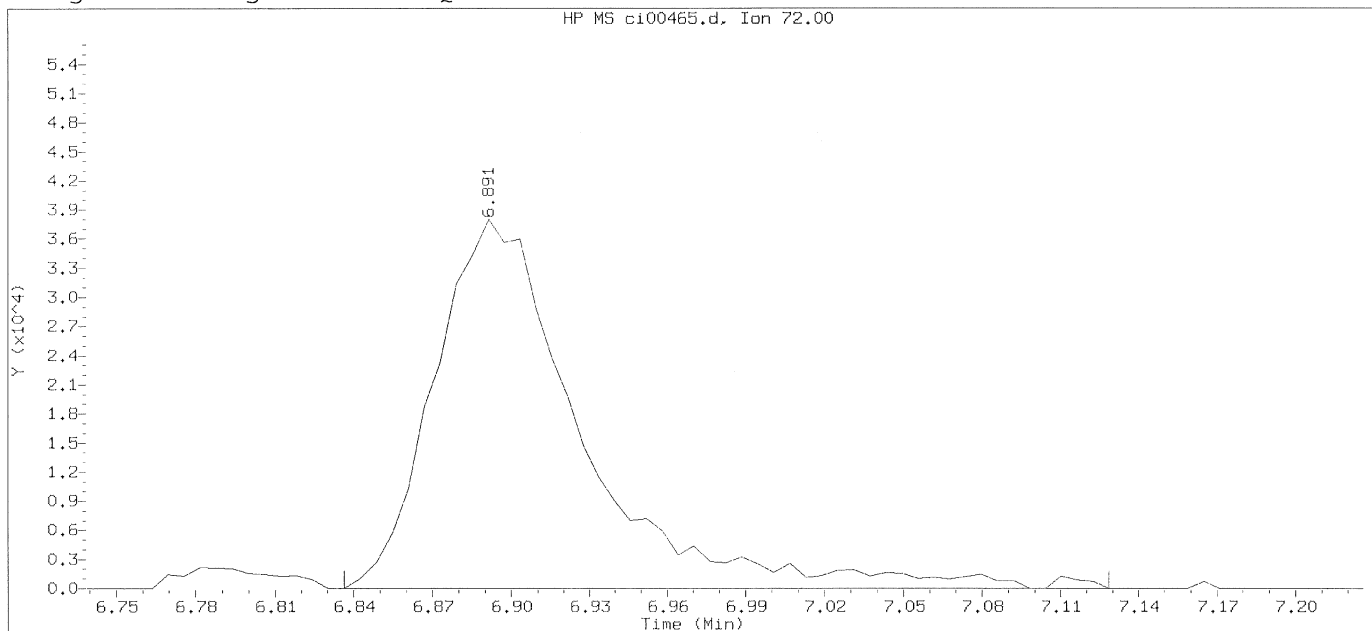
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 17:21

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 11:37

Date, time and analyst ID of latest file update: 22-Sep-2015 18:01 Automation

Sample Name: VSTD005

Lab Sample ID: VSTD005

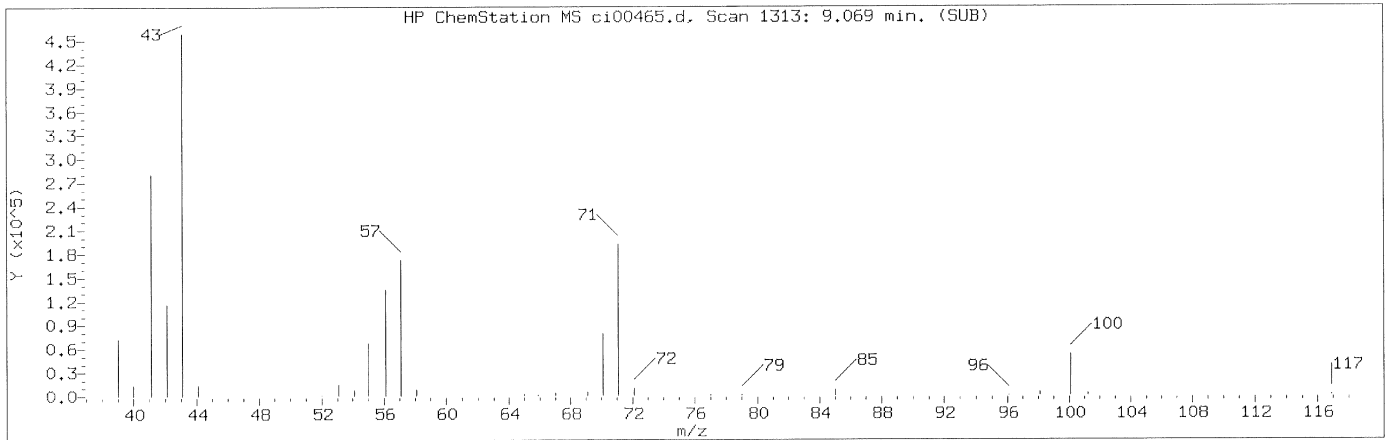
Compound Number : 37  
 Compound Name : 2-Butanone  
 Scan Number : 955  
 Retention Time (minutes): 6.891  
 Quant Ion : 72.00  
 Area : 148894  
 Concentration (ppb(v)) : 5.2955  
 Integration start scan : 945  
 Y at integration start : 0

Integration stop scan: 993  
 Y at integration end: 0

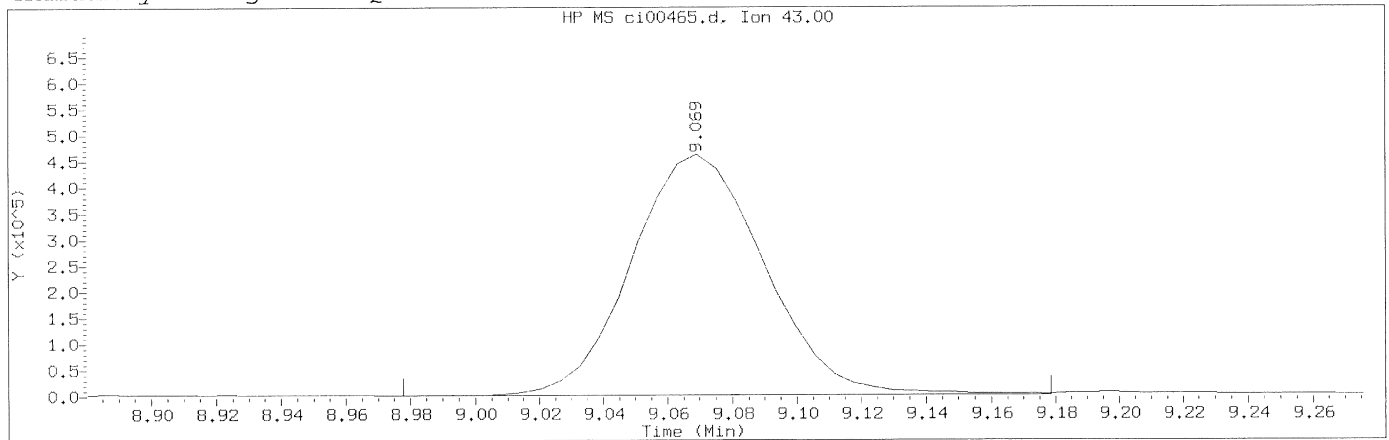
Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304



Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 17:21      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD005      Lab Sample ID: VSTD005

Compound Number : 50  
Compound Name : Heptane  
Scan Number : 1313  
Retention Time (minutes): 9.069  
Quant Ion : 43.00  
Area (flag) : 1308269M  
Concentration (ppb(v)) : 5.1006  
Integration start scan : 1297      Integration stop scan: 1330  
Y at integration start : 1660      Y at integration end: 1627

Reason for manual integration: improper integration

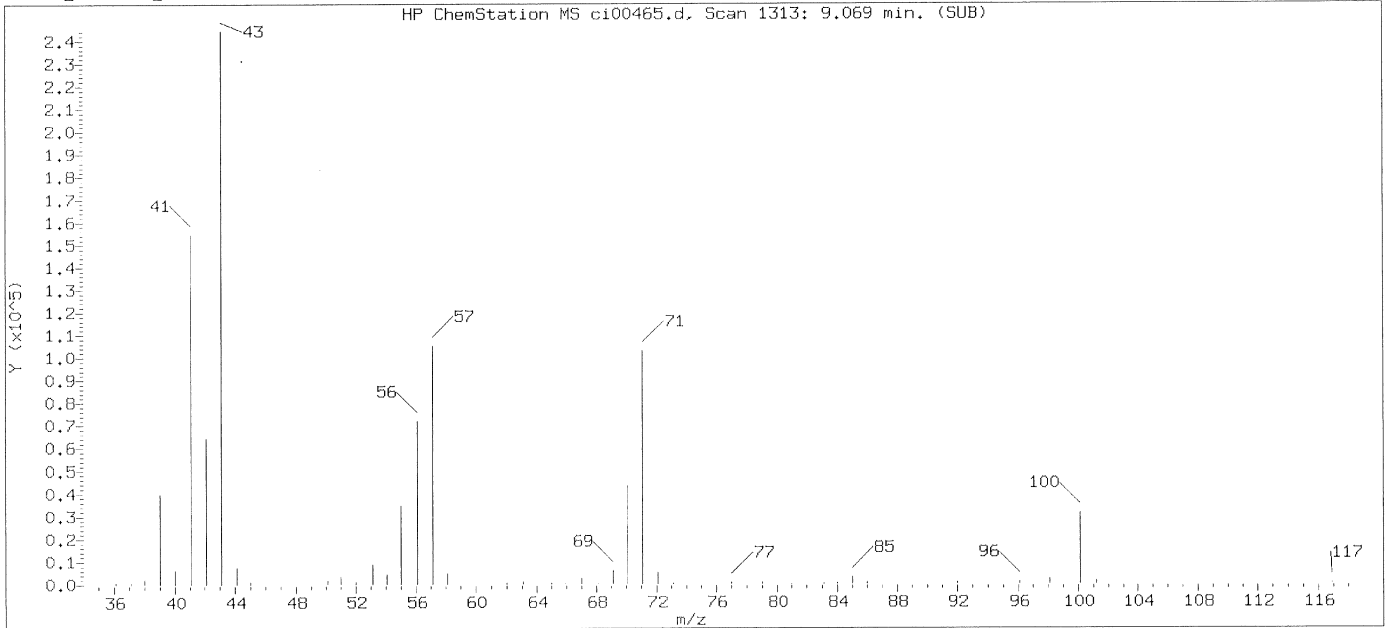
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

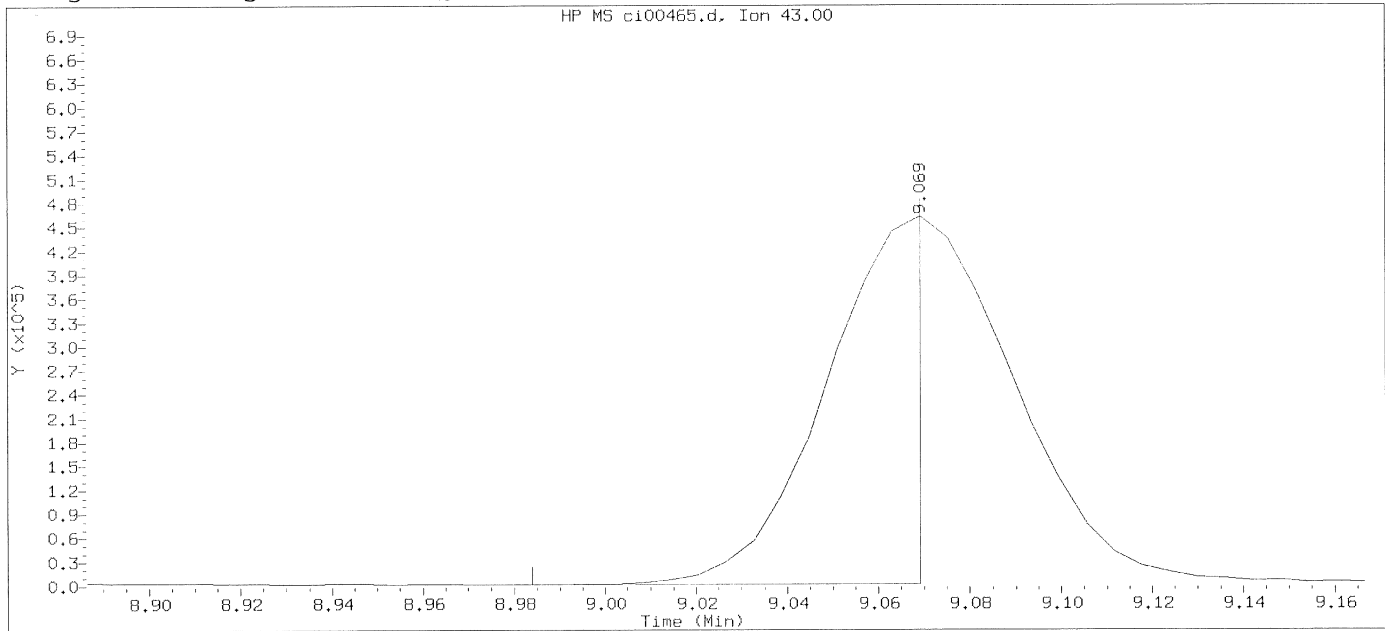
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00465.d  
 Injection date and time: 22-SEP-2015 17:21

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

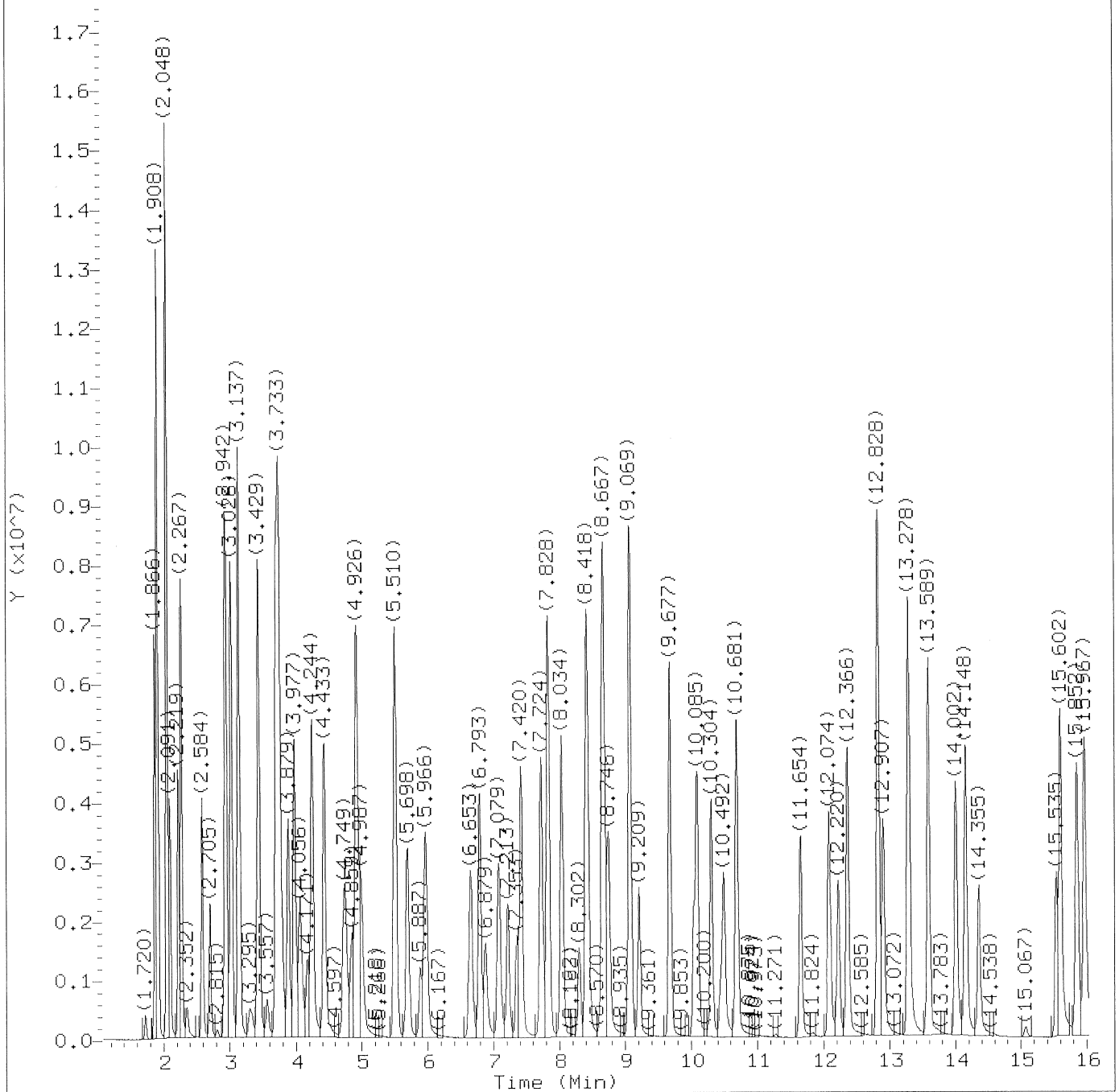
Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 22-SEP-2015 11:37  
 Date, time and analyst ID of latest file update: 22-Sep-2015 18:01 Automation

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number	: 50	Integration start scan	: 1298	Integration stop scan	: 1312
Compound Name	: Heptane	Y at integration start	: 1317	Y at integration end	: 1317
Scan Number	: 1313				
Retention Time (minutes)	: 9.069				
Quant Ion	: 43.00				
Area	: 637177				
Concentration (ppb(v))	: 3.2553				

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 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
Analyst ID: jeb07445

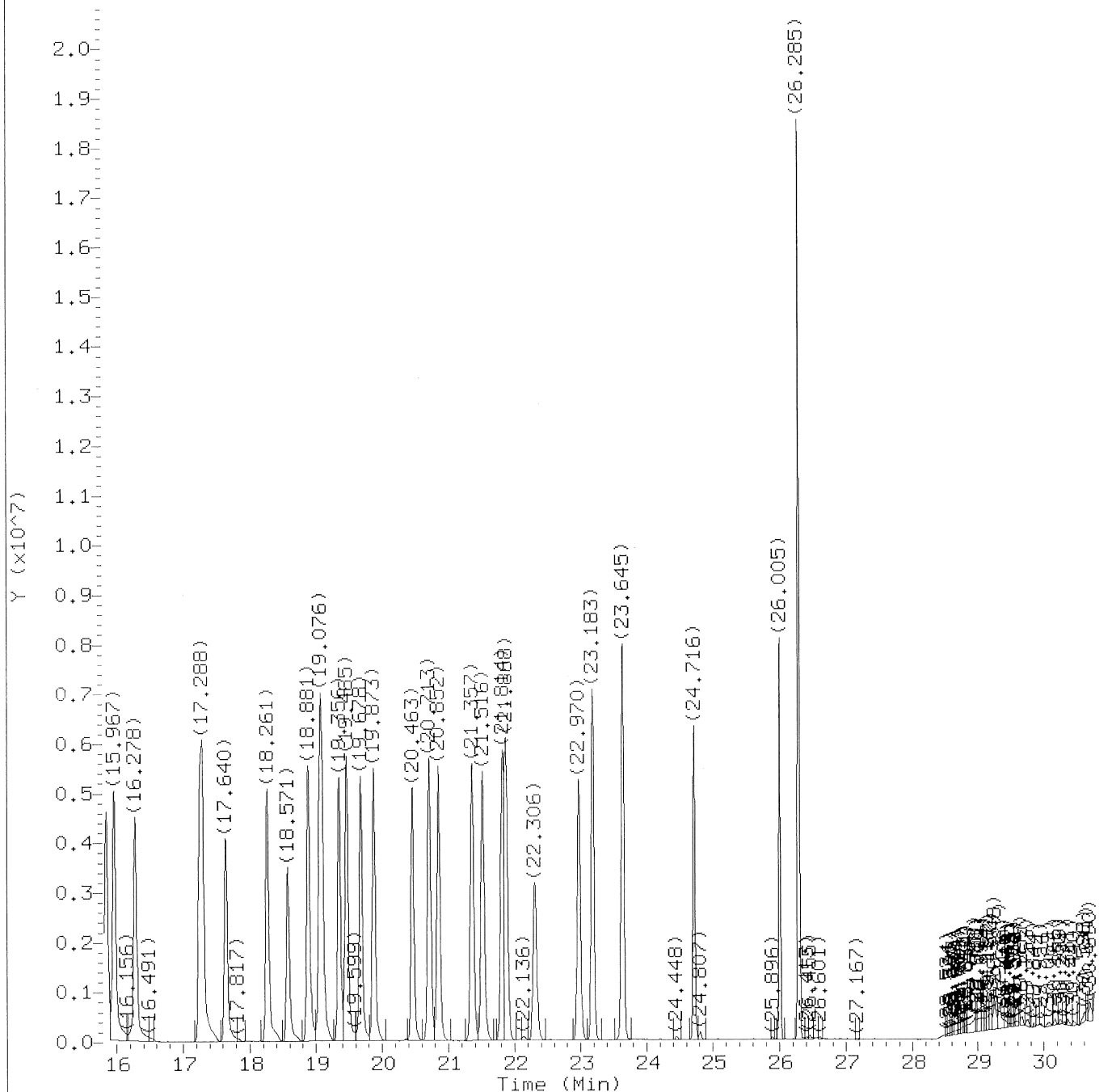
Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

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on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
 Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	3875837	28.749
2) Dichlorodifluoromethane	(1)	1.908	85	7749075	22.558
3) Chlorodifluoromethane	(1)	1.914	51	6887307	23.572
4) Freon 114	(1)	2.048	85	7471105	24.244
5) Chloromethane	(1)	2.091	52	1617865	26.109
6) Vinyl Chloride	(1)	2.219	62	4293334	27.500
7) 1,3-Butadiene	(1)	2.267	54	3650050	27.758
8) Bromomethane	(1)	2.584	94	2980132	24.135
9) Chloroethane	(1)	2.711	64	2372005	23.960
10) Bromoethene	(1)	2.930	106	3056581	29.442
11) Dichlorofluoromethane	(1)	2.949	67	8827374	23.079
12) Trichlorofluoromethane	(1)	3.028	101	8041265	22.468
13) Pentane	(1)	3.137	43	8599937	26.425
14) Ethanol	(1)	3.295	45	1041506	12.726
15) Freon123a	(1)	3.429	67	7103229	22.656
16) Acrolein	(1)	3.563	56	769487	18.049
17) 1,1-Dichloroethene	(1)	3.697	61	7075403	25.925
18) Freon 113	(1)	3.739	103	4108192	24.010
19) Acetone	(1)	3.782	43	2909171	17.747
20) Methyl Iodide	(1)	3.879	142	5409106	27.144
21) Carbon Disulfide	(1)	3.977	76	9905479	22.552
22) Isopropanol	(1)	4.056	45	5848498	24.265
23) Acetonitrile	(1)	4.171	40	945118	13.425
24) 3-Chloropropene	(1)	4.244	76	1938752	28.258
25) Methylene Chloride	(1)	4.433	84	3165278	25.980
26) tert-Butyl Alcohol	(1)	4.749	59	6082885	28.980
27) Acrylonitrile	(1)	4.859	53	2433205M	19.144
28) trans-1,2-Dichloroethene	(1)	4.926	61	7168128	23.253
29) Methyl t-Butyl Ether	(1)	4.993	73	4520457	20.007
30) Hexane	(1)	5.510	57	5445006	27.851
31) 1,1-Dichloroethane	(1)	5.698	63	5636948	22.370
32) Vinyl Acetate	(1)	5.893	86	199158	16.965
33) Di-Isopropyl Ether	(1)	5.966	45	6056510	22.397
36) 1,2-Dichloroethene (total)	(1)		61	11618499	47.428
34) Ethyl Tert-Butyl Ether	(1)	6.653	59	4109039	22.608
35) cis-1,2-Dichloroethene	(1)	6.793	61	4450371	24.175
37) 2-Butanone	(1)	6.879	72	667427	21.687
38) Ethyl Acetate	(1)	7.067	70	384338	21.708

M = Compound was manually integrated.

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
 Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.091	55	2664225	19.411
40) *Bromochloromethane	(1)	7.219	130	800379	10.000
41) Tetrahydrofuran	(1)	7.353	42	2196293	20.422
42) Chloroform	(1)	7.420	83	5232423	20.958
43) 1,1,1-Trichloroethane	(1)	7.724	97	4892330	22.238
44) Cyclohexane	(1)	7.828	56	5764769	26.487
45) Carbon Tetrachloride	(1)	8.034	117	4880794	22.196
46) Benzene	(2)	8.412	78	7401850	26.778
47) 1,2-Dichloroethane	(2)	8.442	62	4201740	23.525
48) Isooctane	(2)	8.667	57	13615644	29.163
49) Tert-Amyl Methyl Ether	(2)	8.746	73	3433559M	25.740
50) Heptane	(2)	9.075	43	6570092M	29.511
51) *1,4-Difluorobenzene	(2)	9.215	114	2484929	10.000
52) Trichloroethene	(2)	9.677	130	2613956	25.320
53) Ethyl Acrylate	(2)	10.036	55	3643048	27.332
54) 1,2-Dichloropropane	(2)	10.091	63	2776853	23.509
55) Dibromomethane	(2)	10.304	174	1725826	24.393
56) 1,4-Dioxane	(2)	10.450	88	1154440	30.867
57) Methyl Methacrylate	(2)	10.492	69	1533447	23.384
58) Bromodichloromethane	(2)	10.681	83	5589341	23.931
59) cis-1,3-Dichloropropene	(2)	11.654	75	3174794	24.524
60) 4-Methyl-2-Pentanone	(2)	12.074	43	5811702	31.037
61) Toluene	(3)	12.366	91	5592486	23.012
64) 1,3-Dichloropropene (total)	(3)		75	6555202	46.594
62) Octane	(3)	12.828	43	7912135	28.883
63) trans-1,3-Dichloropropene	(3)	12.907	75	3380408	22.071
65) Ethyl Methacrylate	(3)	13.272	69	3168435	28.020
66) 1,1,2-Trichloroethane	(3)	13.285	97	2315541	21.701
67) Tetrachloroethene	(3)	13.589	166	2555916	24.553
68) 2-Hexanone	(3)	14.002	43	6303983	31.283
69) Dibromochloromethane	(3)	14.148	127	3331434	22.059
70) 1,2-Dibromoethane	(3)	14.355	107	3178912	21.860
71) *Chlorobenzene-d5	(3)	15.535	117	2484075	10.000
72) Chlorobenzene	(3)	15.602	112	4540500	23.206
73) 1,1,1,2-Tetrachloroethane	(3)	15.846	131	2313629	22.314
74) Ethylbenzene	(3)	15.967	91	6513748	24.998
75) m/p-Xylene	(3)	16.278	91	4802785	23.197
77) Xylene (total)	(3)		91	10364865	48.449

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

Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
 Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

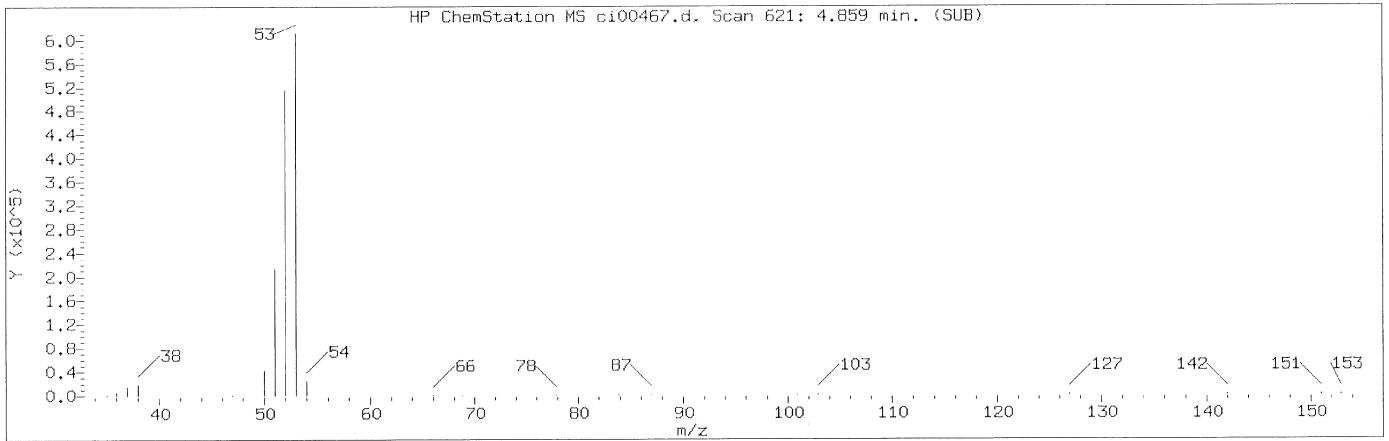
Sample Name: VSTD025

Lab Sample ID: VSTD025

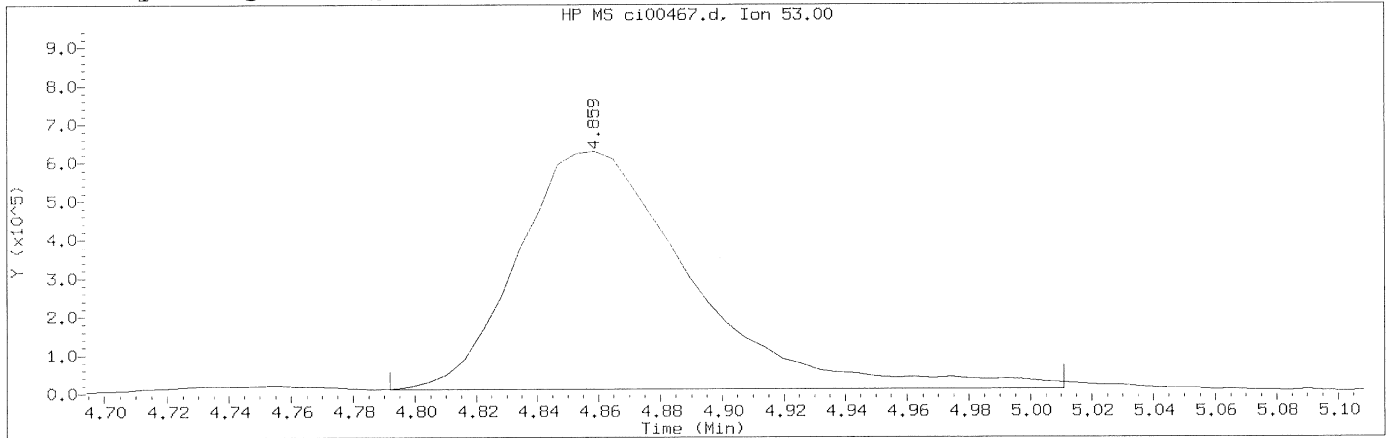
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.251	91	5562080	25.252
78) Styrene	(3)	17.294	104	4184322	23.752
79) Bromoform	(3)	17.640	173	3158767	22.704
80) Cumene	(3)	18.261	105	6234827	25.373
81) Bromobenzene	(3)	18.881	156	2185652	23.283
82) 1,1,2,2-Tetrachloroethane	(3)	19.058	83	5322963	22.330
83) 1,2,3-Trichloropropane	(3)	19.088	110	1181511	19.543
84) n-Propylbenzene	(3)	19.356	120	1702622	23.804
85) 2-Chlorotoluene	(3)	19.465	126	1781725	23.124
86) 4-Ethyltoluene	(3)	19.684	105	6352656	23.845
87) 1,3,5-Trimethylbenzene	(3)	19.873	105	5486873	24.743
88) Alpha Methyl Styrene	(3)	20.463	118	2621155	24.060
89) tert-Butylbenzene	(3)	20.713	119	4820275	24.166
90) 1,2,4-Trimethylbenzene	(3)	20.852	105	5713249	23.728
91) sec-Butylbenzene	(3)	21.357	105	7866856	24.754
92) 1,3-Dichlorobenzene	(3)	21.516	146	3967382	22.123
93) 1,4-Dichlorobenzene	(3)	21.814	146	3992559	21.909
94) p-Isopropyltoluene	(3)	21.868	119	6513923	25.030
95) Benzyl Chloride	(3)	22.306	91	5173225	18.936
96) 1,2-Dichlorobenzene	(3)	22.970	146	3502238	21.112
97) n-Butylbenzene	(3)	23.183	91	7307261	25.577
98) Hexachloroethane	(3)	23.645	117	3111332	25.260
99) 1,2-Dibromo-3-chloropropane	(3)	24.716	157	1640920	20.795
100) 1,2,4-Trichlorobenzene	(3)	26.005	180	1894033	22.544
101) Hexachlorobutadiene	(3)	26.285	225	2027039	24.738
102) Naphthalene	(3)	26.297	128	5195630	21.808

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d                      Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 18:47                      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m                      Sublist used: all  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD025    Lab Sample ID: VSTD025

Compound Number                      : 27  
Compound Name                         : Acrylonitrile  
Scan Number                            : 621  
Retention Time (minutes): 4.859  
Quant Ion                                : 53.00  
Area (flag)                             : 2433205M  
Concentration (ppb(v))                : 19.1436  
Integration start scan                 : 609                      Integration stop scan: 645  
Y at integration start                 : 9984                    Y at integration end: 9984

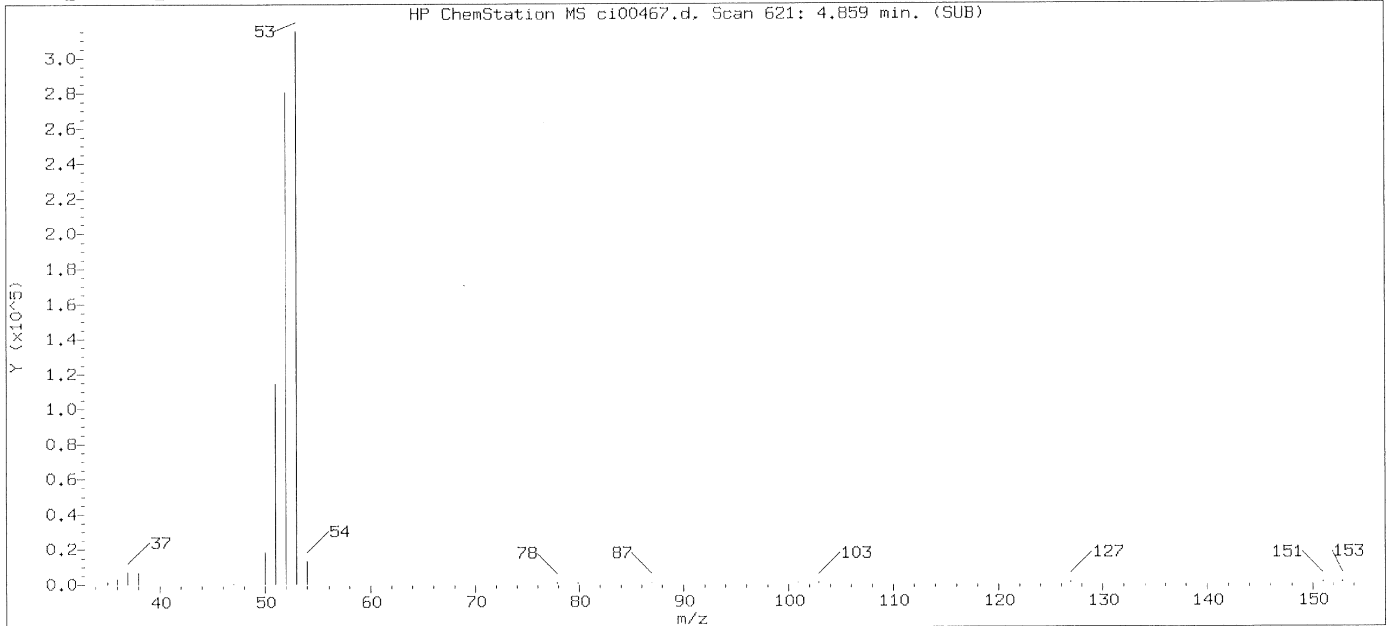
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

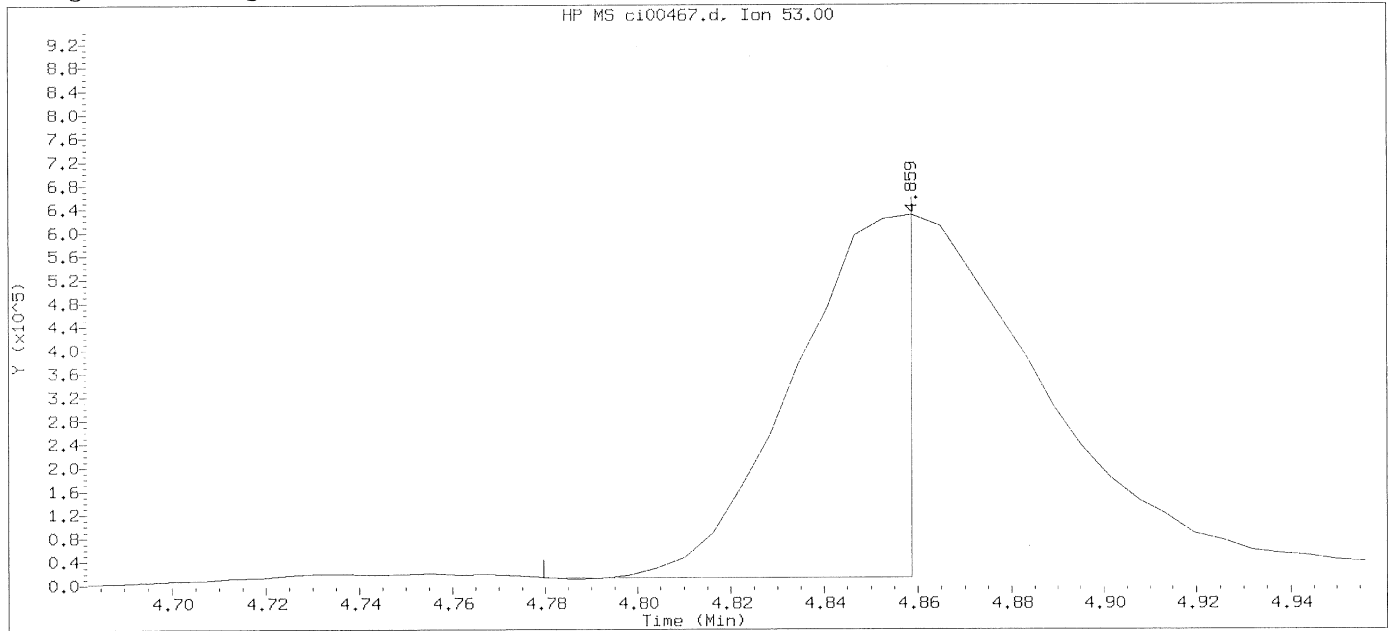
GC/MS audit/management approval: \_\_\_\_\_  
*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist  
SEP 25 2015



Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d Instrument ID: HP09464.i  
Injection date and time: 22-SEP-2015 18:47 Analyst ID: jeb07445

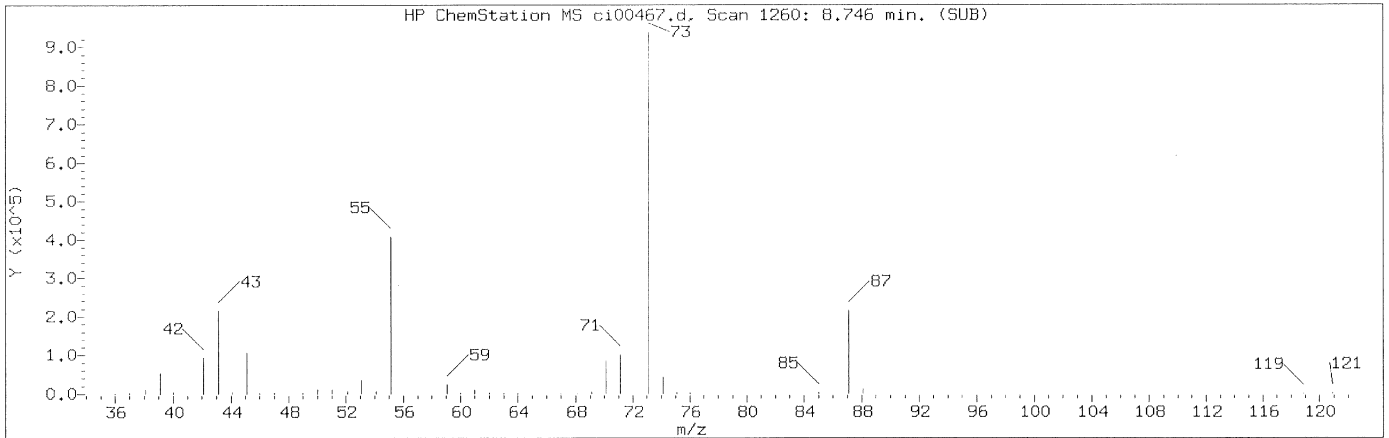
Method used: /chem/HP09464.i/15sep22.b/to-15.m Sublist used: all  
Calibration date and time: 22-SEP-2015 18:48  
Date, time and analyst ID of latest file update: 22-Sep-2015 19:26 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

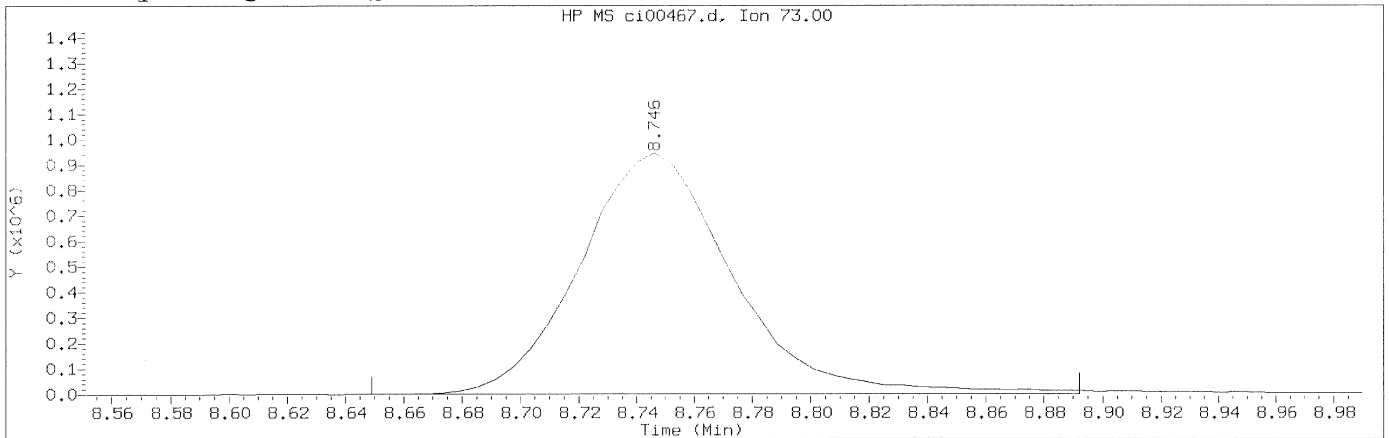
Compound Number : 27  
Compound Name : Acrylonitrile  
Scan Number : 621  
Retention Time (minutes): 4.859  
Quant Ion : 53.00  
Area : 1038189  
Concentration (ppb(v)) : 7.9462  
Integration start scan : 607 Integration stop scan: 620  
Y at integration start : 12949 Y at integration end: 12949

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d      Instrument ID: HP09464.i  
 Injection date and time: 22-SEP-2015 18:47      Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m      Sublist used: all  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD025      Lab Sample ID: VSTD025

Compound Number : 49  
 Compound Name : Tert-Amyl Methyl Ether  
 Scan Number : 1260  
 Retention Time (minutes): 8.746  
 Quant Ion : 73.00  
 Area (flag) : 3433559M  
 Concentration (ppb(v)) : 25.7402  
 Integration start scan : 1243      Integration stop scan: 1283  
 Y at integration start : 1661      Y at integration end: 3278

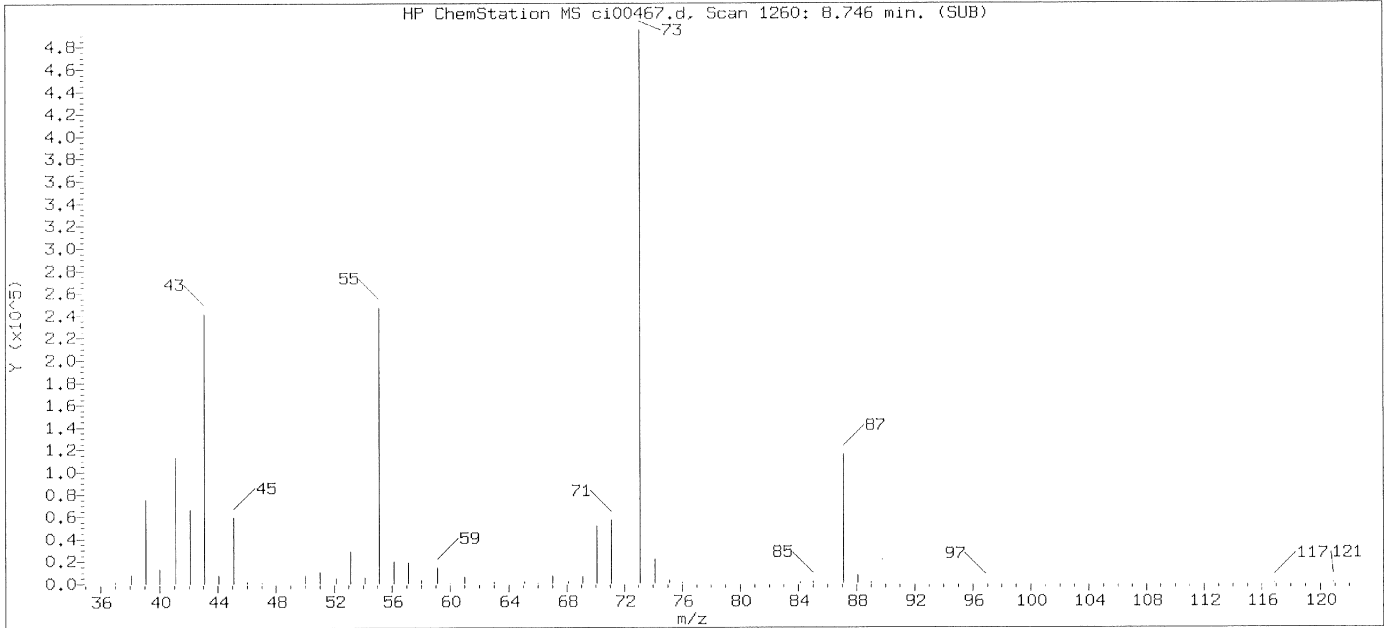
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

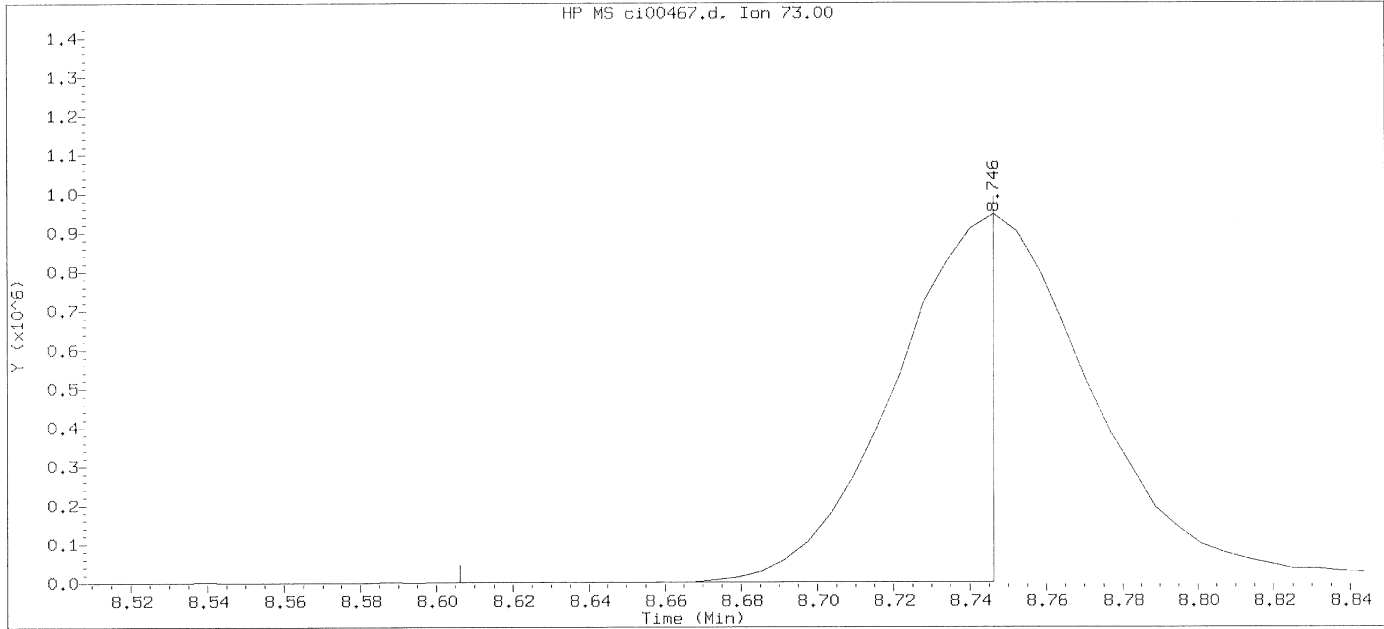
GC/MS audit/management approval: \_\_\_\_\_

*Mark A. Ratcliff*  
 Mark A. Ratcliff  
 Senior Specialist  
**SEP 25 2015**

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 18:47

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 18:48

Date, time and analyst ID of latest file update: 22-Sep-2015 19:26 Automation

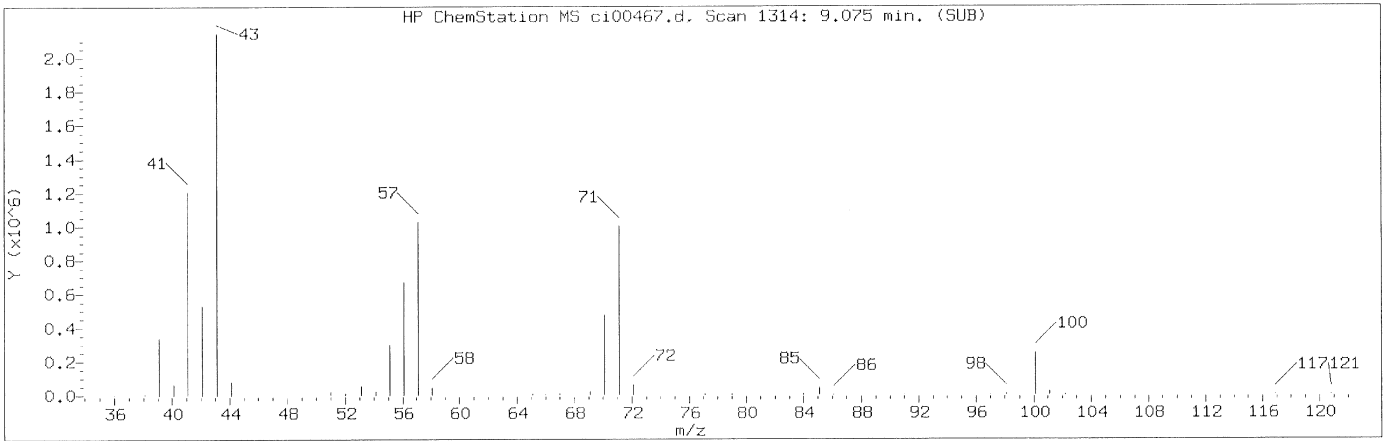
Sample Name: VSTD025

Lab Sample ID: VSTD025

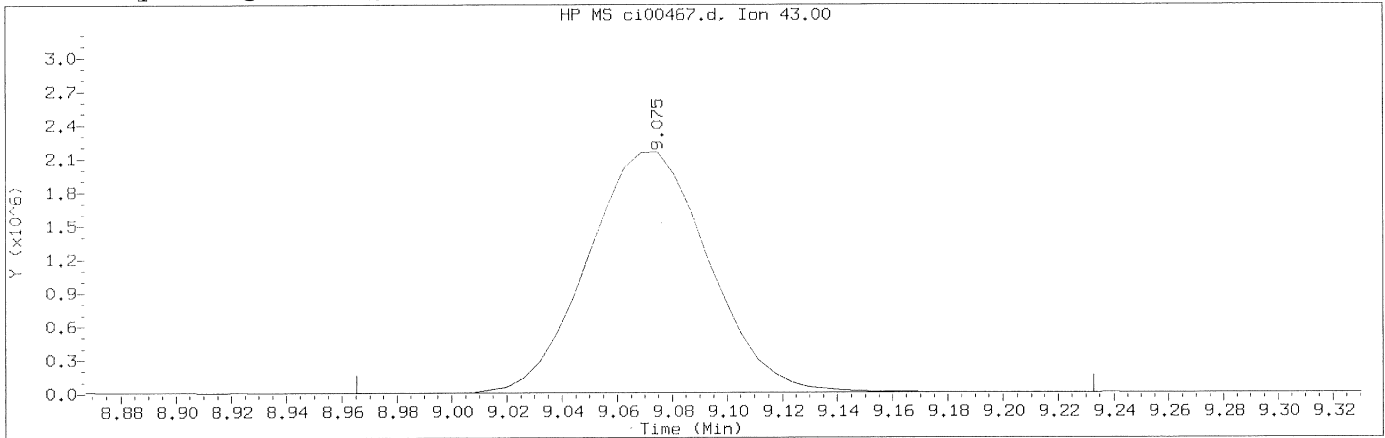
Compound Number : 49  
Compound Name : Tert-Amyl Methyl Ether  
Scan Number : 1260  
Retention Time (minutes): 8.746  
Quant Ion : 73.00  
Area : 1655961  
Concentration (ppb(v)) : 12.9030  
Integration start scan : 1236 Integration stop scan: 1259  
Y at integration start : 1121 Y at integration end: 1121

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d  
Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compound Number : 50  
Compound Name : Heptane  
Scan Number : 1314  
Retention Time (minutes): 9.075  
Quant Ion : 43.00  
Area (flag) : 6570092M  
Concentration (ppb(v)) : 29.5112  
Integration start scan : 1295      Integration stop scan: 1339  
Y at integration start : 5560      Y at integration end: 6743

Reason for manual integration: improper integration

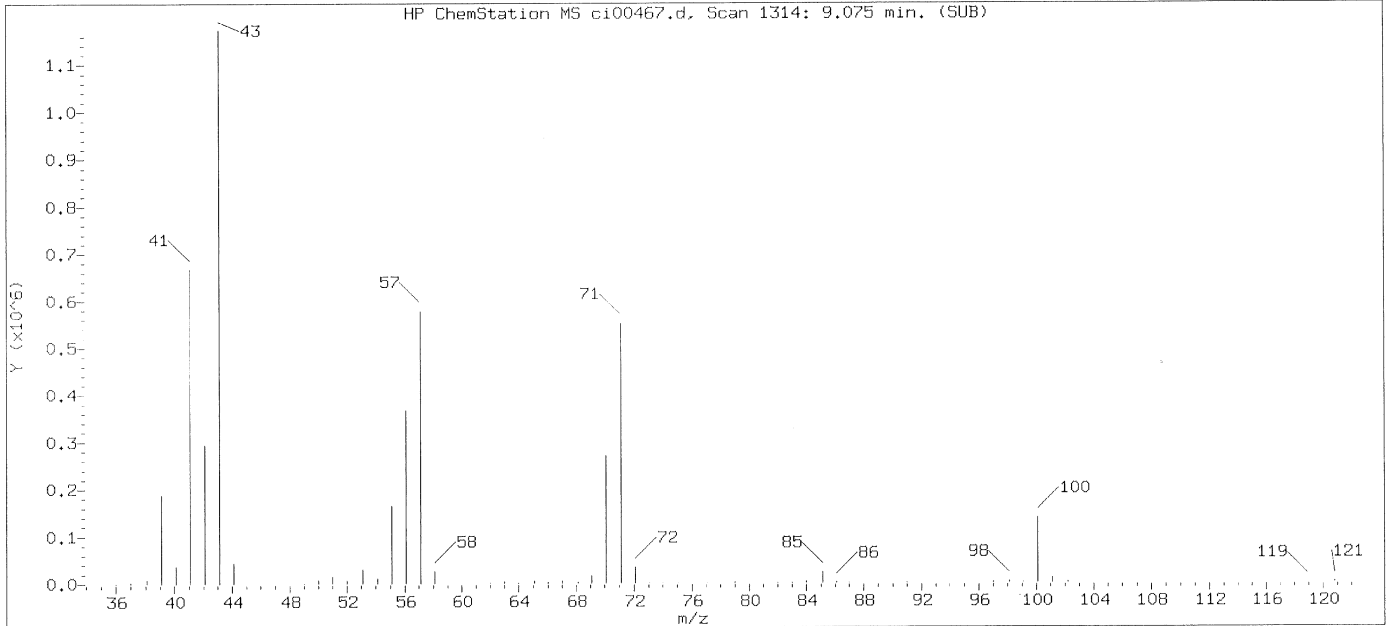
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
Mark A. Ratcliff  
Senior Specialist

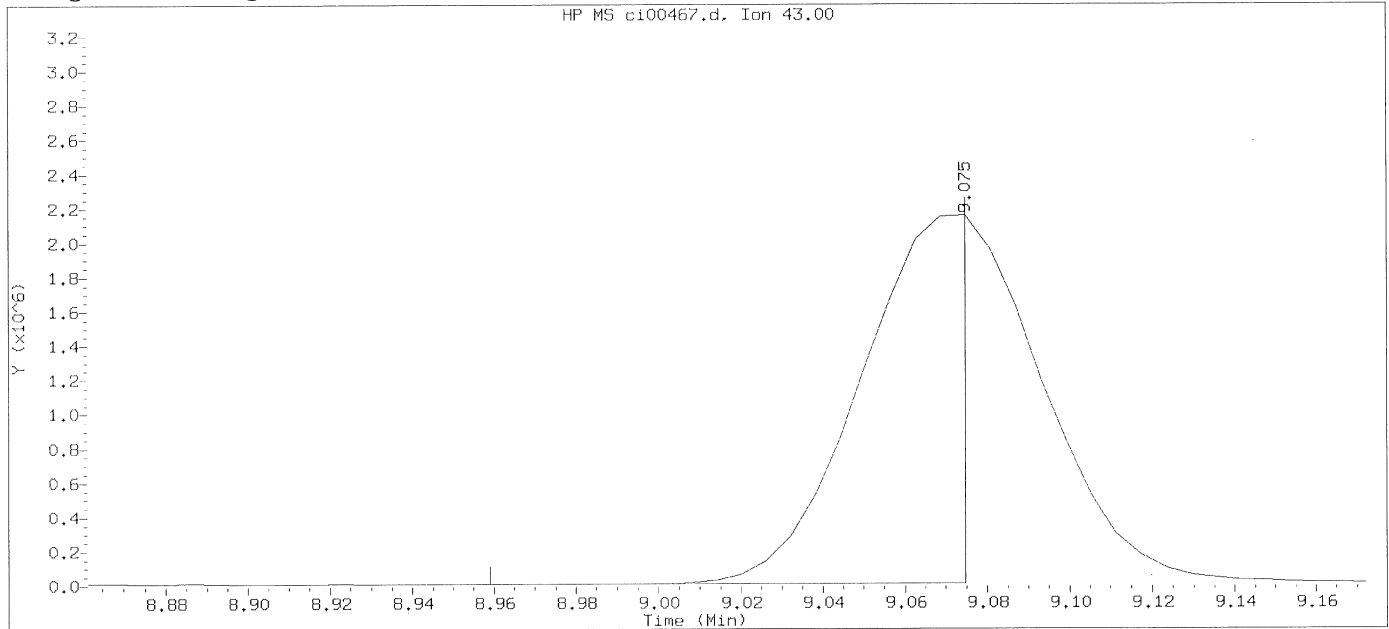
SEP 25 2015

GC/MS audit/management approval: \_\_\_\_\_

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00467.d

Injection date and time: 22-SEP-2015 18:47

Instrument ID: HP09464.i

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 18:48

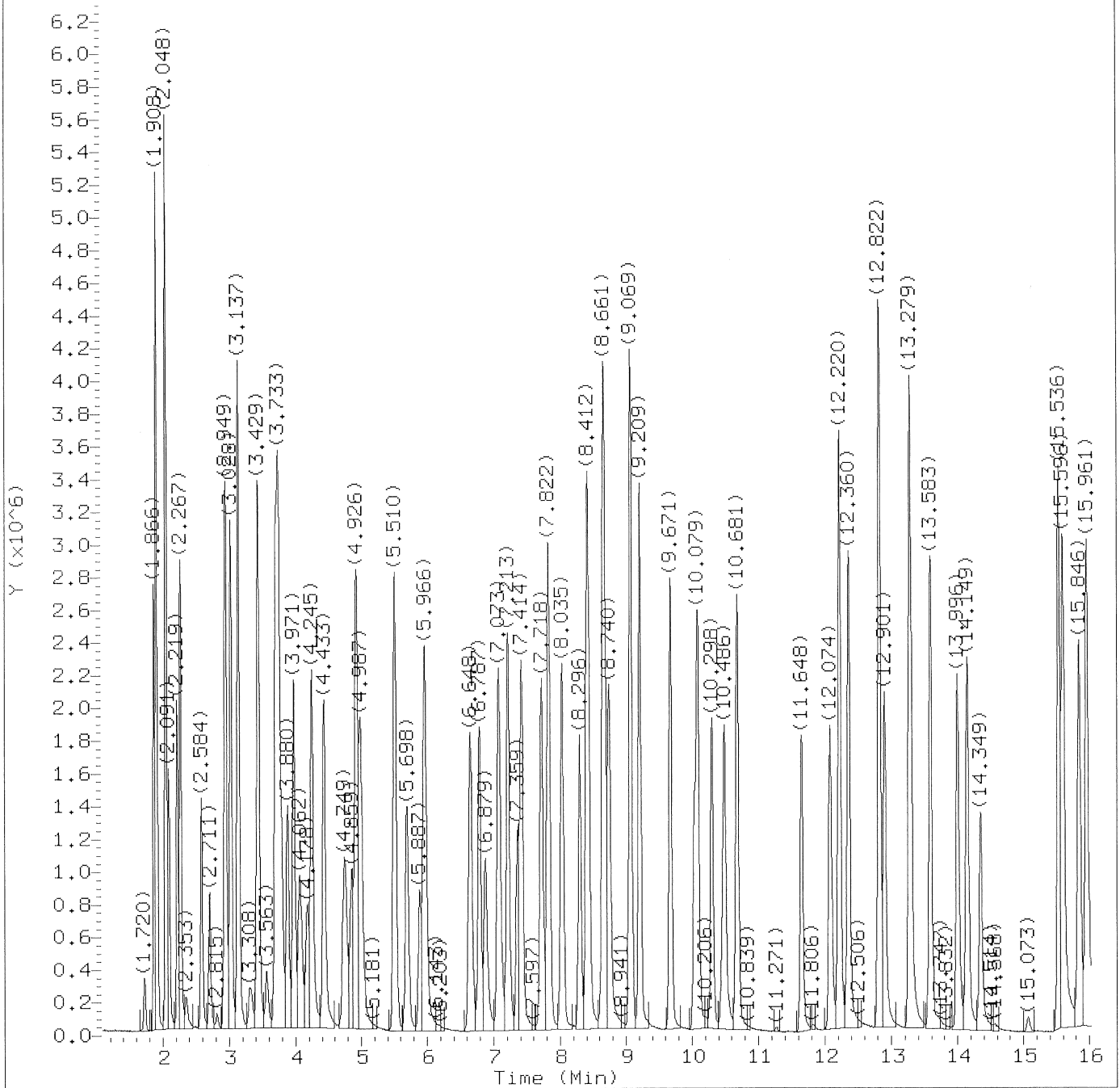
Date, time and analyst ID of latest file update: 22-Sep-2015 19:26 Automation

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compound Number	: 50		
Compound Name	: Heptane		
Scan Number	: 1314		
Retention Time (minutes)	: 9.075		
Quant Ion	: 43.00		
Area	: 3669752		
Concentration (ppb(v))	: 16.1267		
Integration start scan	: 1294	Integration stop scan:	1313
Y at integration start	: 5538	Y at integration end:	5538

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Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
Analyst ID: jeb07445

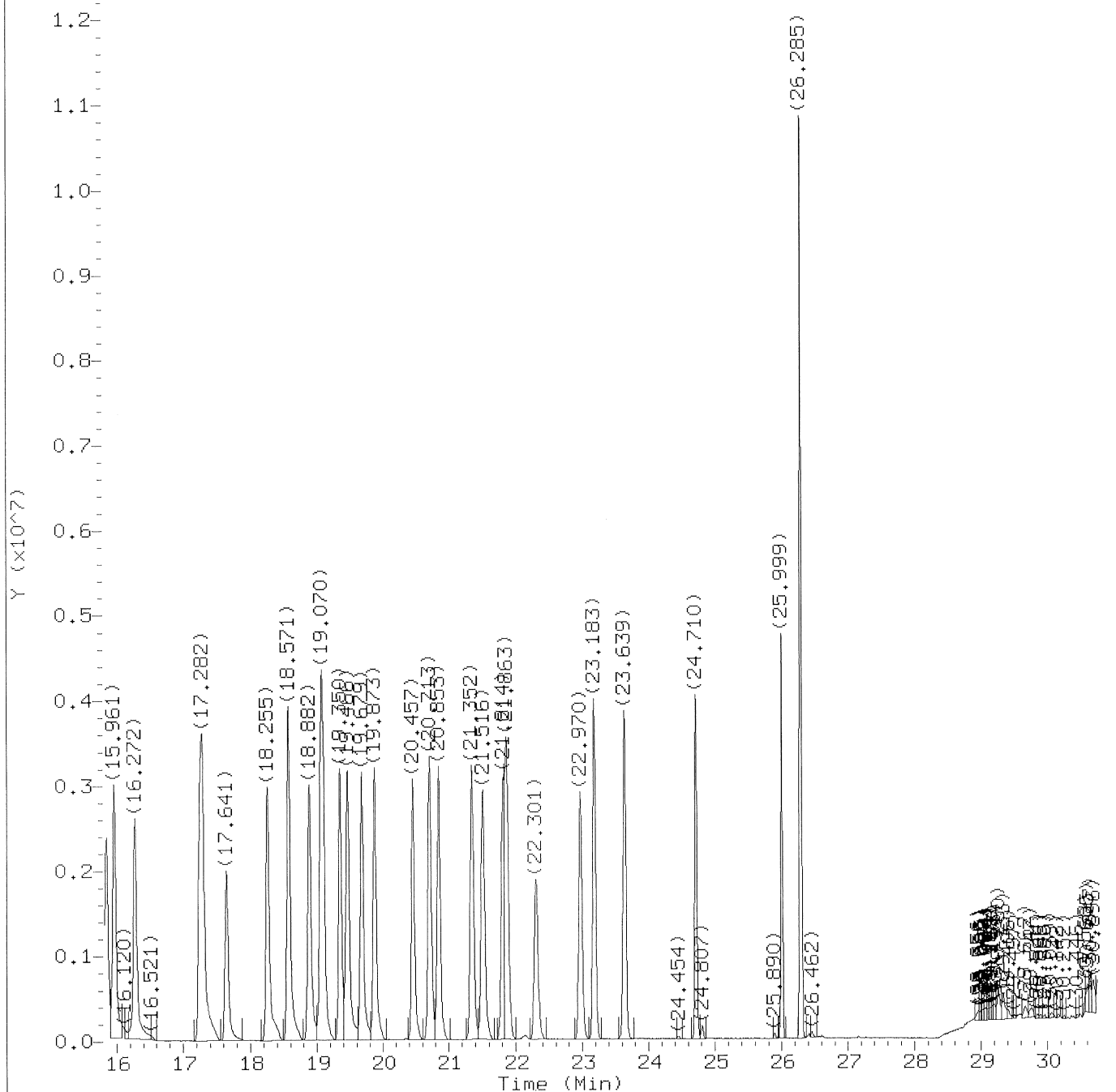
Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

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on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
 Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.866	41	1508822	10.030
2) Dichlorodifluoromethane	(1)	1.902	85	3242321	8.459
3) Chlorodifluoromethane	(1)	1.915	51	2870488	8.805
4) Freon 114	(1)	2.048	85	2980399	8.668
5) Chloromethane	(1)	2.091	52	616048	8.910
6) Vinyl Chloride	(1)	2.219	62	1634673	9.384
7) 1,3-Butadiene	(1)	2.267	54	1373965	9.364
8) Bromomethane	(1)	2.584	94	1111048	8.064
9) Chloroethane	(1)	2.711	64	907566	8.216
10) Bromoethene	(1)	2.930	106	1086632	9.380
11) Dichlorofluoromethane	(1)	2.949	67	3692828	8.653
12) Trichlorofluoromethane	(1)	3.028	101	3271447	8.192
13) Pentane	(1)	3.143	43	3682522	10.141
14) Ethanol	(1)	3.308	45	566700	6.206
15) Freon123a	(1)	3.429	67	3226663	9.223
16) Acrolein	(1)	3.563	56	419659	8.822
17) 1,1-Dichloroethene	(1)	3.697	61	2795139	9.179
18) Freon 113	(1)	3.740	103	1527598	8.001
19) Acetone	(1)	3.788	43	2216970	12.121
20) Methyl Iodide	(1)	3.880	142	2068908	9.305
21) Carbon Disulfide	(1)	3.971	76	4181827	8.533
22) Isopropanol	(1)	4.068	45	2545900	9.466
23) Acetonitrile	(1)	4.178	40	614874	7.828
24) 3-Chloropropene	(1)	4.245	76	742955	9.705
25) Methylene Chloride	(1)	4.433	84	1298319	9.550
26) tert-Butyl Alcohol	(1)	4.749	59	2575448	10.996
27) Acrylonitrile	(1)	4.859	53	1443391	10.177
28) trans-1,2-Dichloroethene	(1)	4.926	61	2980624	8.666
29) Methyl t-Butyl Ether	(1)	4.993	73	3207605	12.723
30) Hexane	(1)	5.510	57	2183429	10.009
31) 1,1-Dichloroethane	(1)	5.692	63	2522758	8.972
32) Vinyl Acetate	(1)	5.893	86	145072	11.075
33) Di-Isopropyl Ether	(1)	5.966	45	4172404	13.828
36) 1,2-Dichloroethene (total)	(1)		61	5015239	18.571
34) Ethyl Tert-Butyl Ether	(1)	6.648	59	2706448	13.346
35) cis-1,2-Dichloroethene	(1)	6.787	61	2034615	9.905
37) 2-Butanone	(1)	6.879	72	455123	13.254
38) Ethyl Acetate	(1)	7.067	70	275345	13.938

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304



Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
 Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.092	55	2112506	13.794
40) *Bromochloromethane	(1)	7.213	130	893069	10.000
41) Tetrahydrofuran	(1)	7.359	42	1556637	12.972
42) Chloroform	(1)	7.420	83	2515000	9.028
43) 1,1,1-Trichloroethane	(1)	7.718	97	2242618	9.136
44) Cyclohexane	(1)	7.822	56	2433158	10.019
45) Carbon Tetrachloride	(1)	8.035	117	2202324	8.976
46) Benzene	(2)	8.406	78	3555769	9.903
47) 1,2-Dichloroethane	(2)	8.436	62	2119321	9.135
48) Isooctane	(2)	8.661	57	6805624	11.222
49) Tert-Amyl Methyl Ether	(2)	8.746	73	2192912	12.656
50) Heptane	(2)	9.069	43	3196128	11.052
51) *1,4-Difluorobenzene	(2)	9.209	114	3227842	10.000
52) Trichloroethene	(2)	9.671	130	1153536	8.602
53) Ethyl Acrylate	(2)	10.030	55	2361623	13.640
54) 1,2-Dichloropropane	(2)	10.085	63	1569667	10.230
55) Dibromomethane	(2)	10.298	174	815949	8.878
56) 1,4-Dioxane	(2)	10.456	88	553521	11.393
57) Methyl Methacrylate	(2)	10.492	69	1058642	12.428
58) Bromodichloromethane	(2)	10.681	83	2783321	9.174
59) cis-1,3-Dichloropropene	(2)	11.648	75	1676803	9.971
60) 4-Methyl-2-Pentanone	(2)	12.074	43	2940764	12.090
61) Toluene	(3)	12.360	91	3296731	11.162
64) 1,3-Dichloropropene (total)	(3)		75	3575522	20.171
62) Octane	(3)	12.822	43	4000682	12.016
63) trans-1,3-Dichloropropene	(3)	12.901	75	1898719	10.200
65) Ethyl Methacrylate	(3)	13.273	69	1640075	11.934
66) 1,1,2-Trichloroethane	(3)	13.279	97	1277628	9.852
67) Tetrachloroethene	(3)	13.583	166	1176776	9.301
68) 2-Hexanone	(3)	13.996	43	3248558	13.264
69) Dibromochloromethane	(3)	14.149	127	1576984	8.592
70) 1,2-Dibromoethane	(3)	14.355	107	1701862	9.629
71) *Chlorobenzene-d5	(3)	15.536	117	3019123	10.000
72) Chlorobenzene	(3)	15.603	112	2445130	10.282
73) 1,1,1,2-Tetrachloroethane	(3)	15.846	131	1212082	9.618
74) Ethylbenzene	(3)	15.961	91	4013528	12.673
75) m/p-Xylene	(3)	16.272	91	2952659M	11.734
77) Xylene (total)	(3)		91	6378600	24.531

M = Compound was manually integrated.

\* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
 Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08

Sublist used: all

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

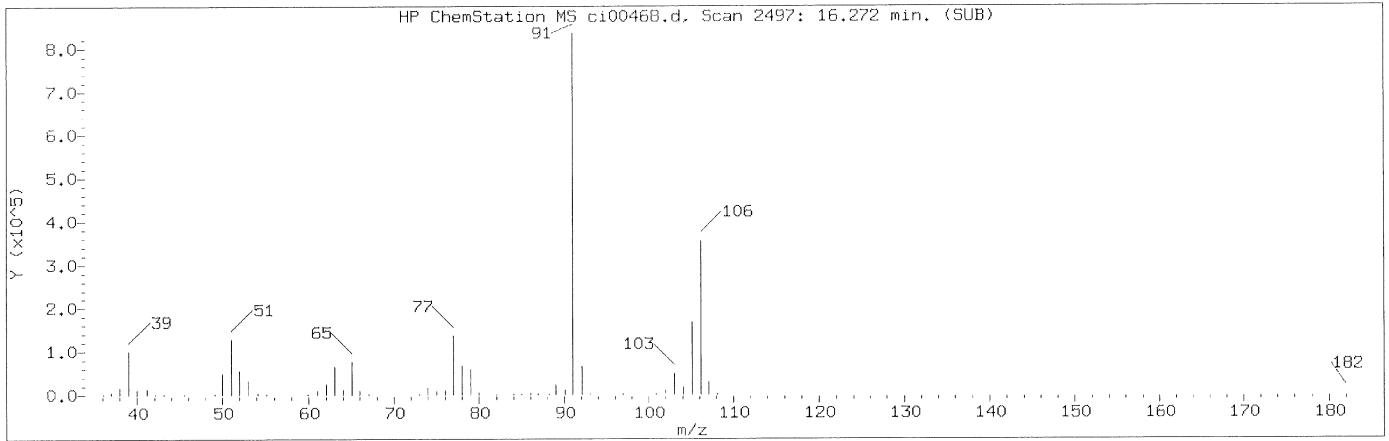
Sample Name: VSTD010

Lab Sample ID: VSTD010

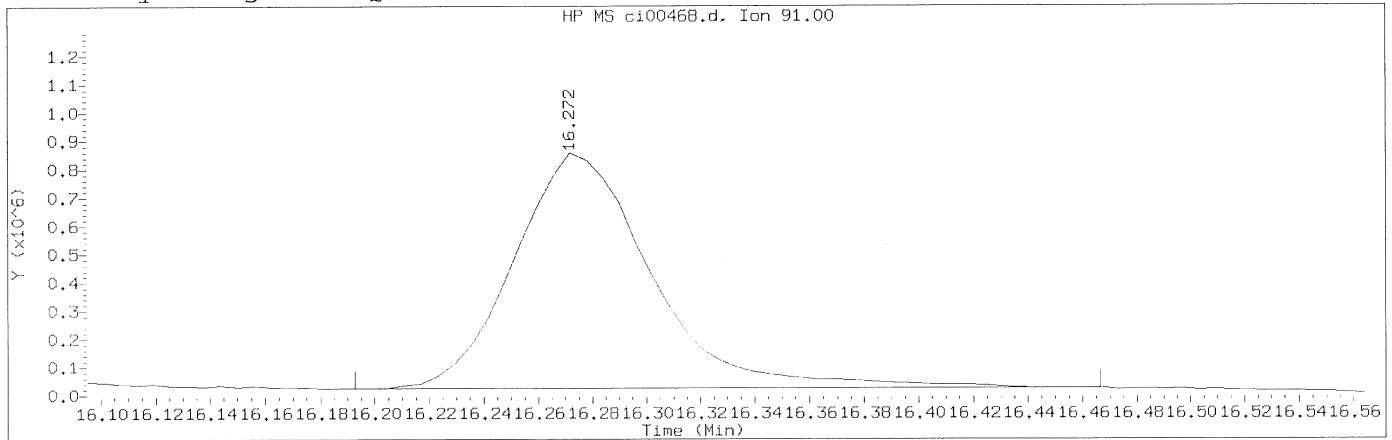
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
76) o-Xylene	(3)	17.251	91	3425941	12.798
78) Styrene	(3)	17.294	104	2544402	11.884
79) Bromoform	(3)	17.641	173	1583603	9.365
80) Cumene	(3)	18.255	105	3827853	12.817
81) Bromobenzene	(3)	18.888	156	1199804	10.516
82) 1,1,2,2-Tetrachloroethane	(3)	19.058	83	3288406	11.350
83) 1,2,3-Trichloropropane	(3)	19.095	110	740547	10.078
84) n-Propylbenzene	(3)	19.350	120	1042481	11.992
85) 2-Chlorotoluene	(3)	19.460	126	1015576	10.845
86) 4-Ethyltoluene	(3)	19.679	105	3958685	12.226
87) 1,3,5-Trimethylbenzene	(3)	19.873	105	3339145	12.389
88) Alpha Methyl Styrene	(3)	20.457	118	1593021	12.031
89) tert-Butylbenzene	(3)	20.713	119	2875225	11.860
90) 1,2,4-Trimethylbenzene	(3)	20.853	105	3450595	11.791
91) sec-Butylbenzene	(3)	21.352	105	4656061	12.054
92) 1,3-Dichlorobenzene	(3)	21.516	146	2214582	10.160
93) 1,4-Dichlorobenzene	(3)	21.808	146	2222291	10.034
94) p-Isopropyltoluene	(3)	21.869	119	3740687	11.826
95) Benzyl Chloride	(3)	22.301	91	3182938	9.586
96) 1,2-Dichlorobenzene	(3)	22.970	146	2029590	10.066
97) n-Butylbenzene	(3)	23.183	91	4284857	12.340
98) Hexachloroethane	(3)	23.639	117	1540565	10.291
99) 1,2-Dibromo-3-chloropropane	(3)	24.716	157	999736	10.424
100) 1,2,4-Trichlorobenzene	(3)	26.005	180	1093266	10.707
101) Hexachlorobutadiene	(3)	26.285	225	1149513	11.542
102) Naphthalene	(3)	26.297	128	3371949	11.645

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 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00468.d  
 Injection date and time: 22-SEP-2015 19:30

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 75  
 Compound Name : m/p-Xylene  
 Scan Number : 2497  
 Retention Time (minutes): 16.272  
 Quant Ion : 91.00  
 Area (flag) : 2952659M  
 Concentration (ppb(v)) : 11.7335  
 Integration start scan : 2483      Integration stop scan: 2528  
 Y at integration start : 23655      Y at integration end: 23655

Reason for manual integration: improper integration

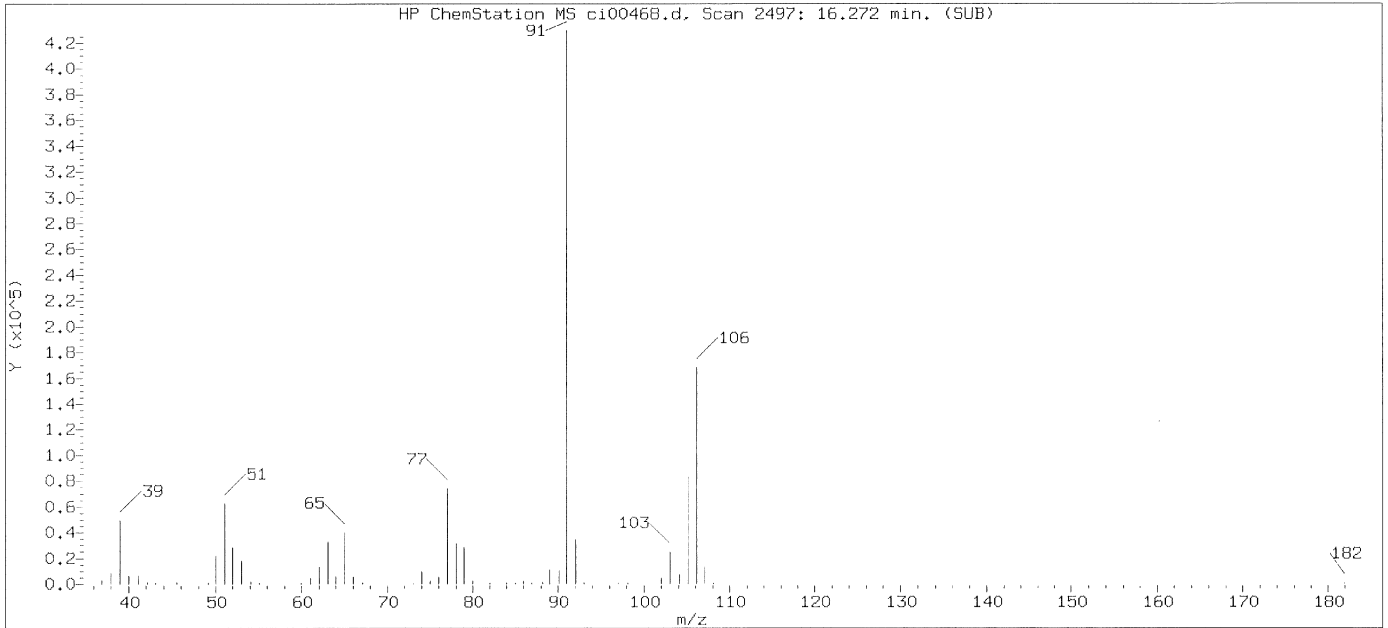
Analyst responsible for change: Digitally signed by Jeffrey B. Smith  
 on 09/23/2015 at 09:32.  
 Target 3.5 esignature user ID: jbs01304

*Mark A. Ratcliff*  
 Mark A. Ratcliff  
 Senior Specialist

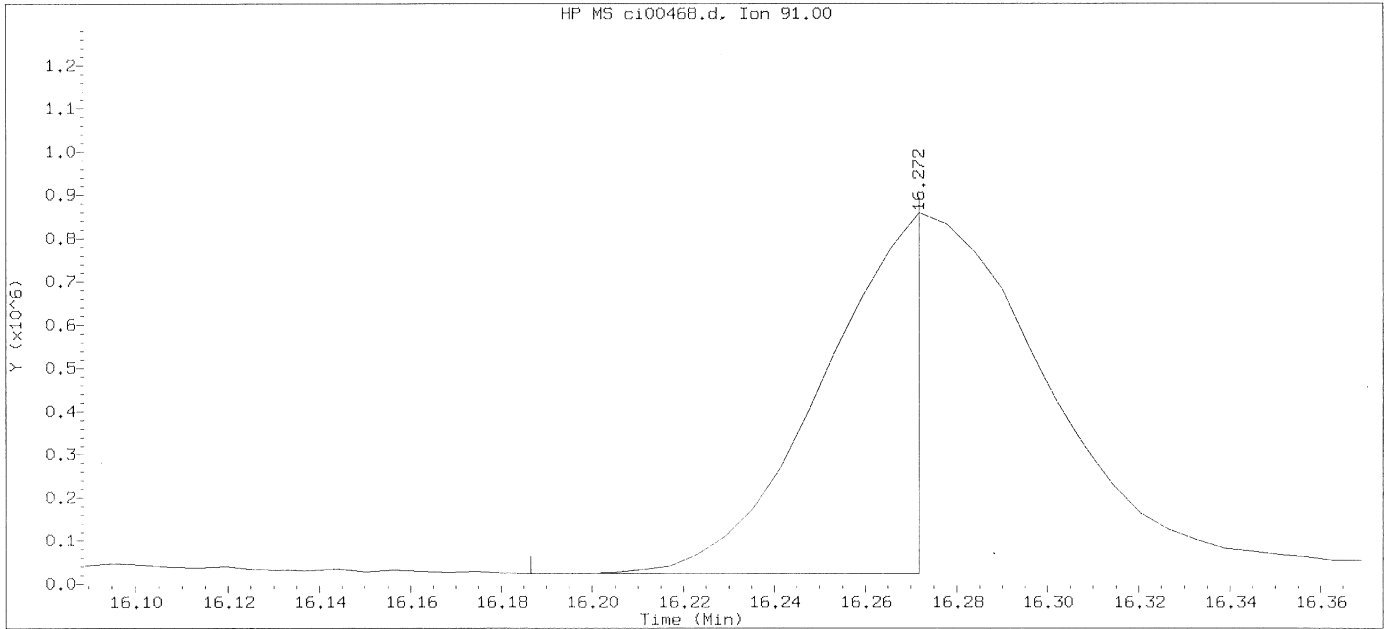
GC/MS audit/management approval: \_\_\_\_\_

SEP 25 2015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09464.i/15sep22.b/ci00468.d

Instrument ID: HP09464.i

Injection date and time: 22-SEP-2015 19:30

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 22-SEP-2015 19:38

Date, time and analyst ID of latest file update: 22-Sep-2015 20:10 Automation

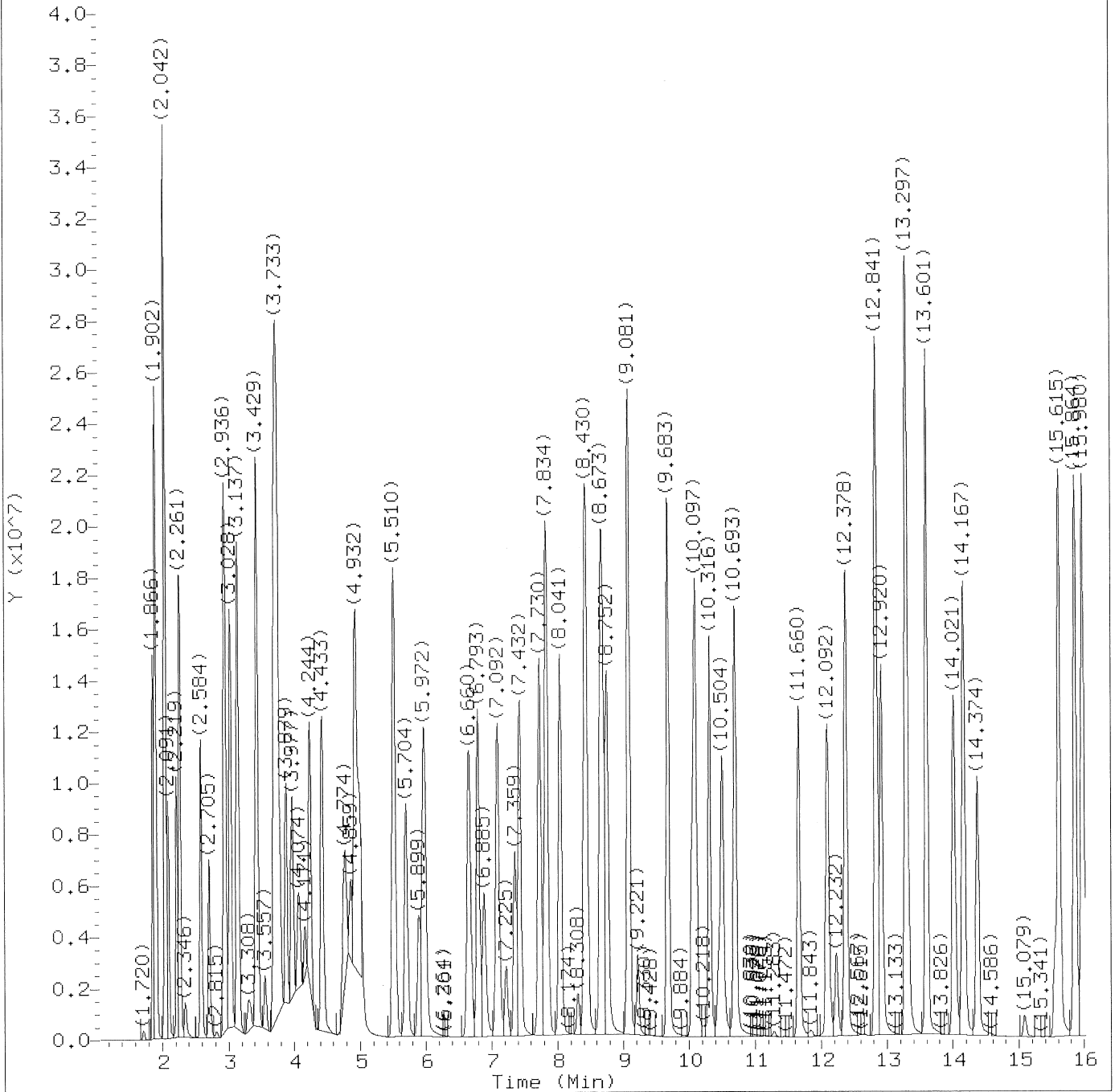
Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 75  
Compound Name : m/p-Xylene  
Scan Number : 2497  
Retention Time (minutes): 16.272  
Quant Ion : 91.00  
Area : 1188833  
Concentration (ppb(v)) : 4.5855  
Integration start scan : 2482  
Y at integration start : 24552

Integration stop scan: 2496  
Y at integration end: 24552

Digitally signed by Jeffrey B. Smith on 09/23/2015 at 09:32.  
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00469.d  
Injection date and time: 22-SEP-2015 20:15

Instrument ID: HP09464.i  
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
Calibration date and time: 23-SEP-2015 09:08  
Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

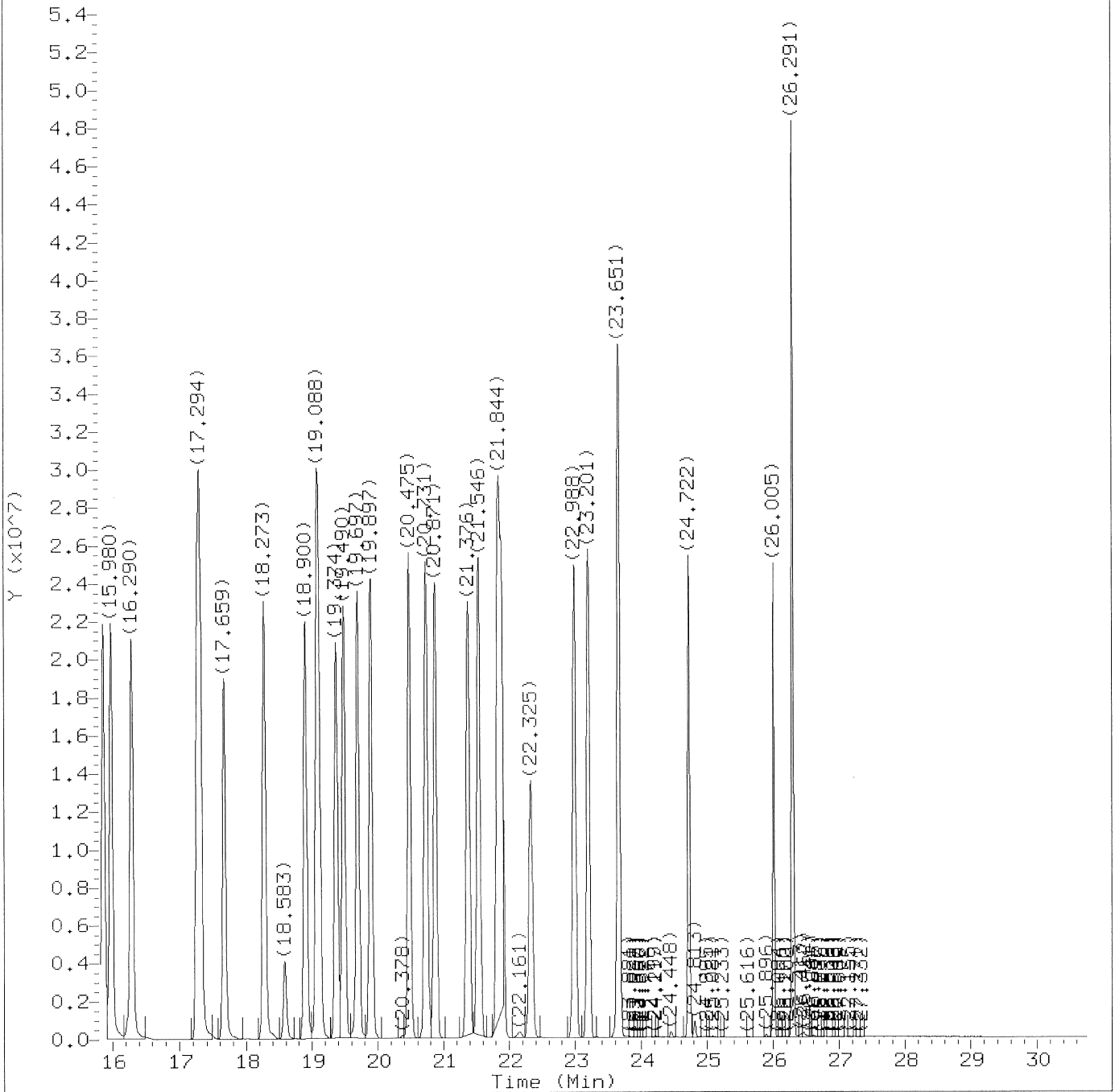
Sublist used: all

Sample Name: VSTD070

Lab Sample ID: VSTD070

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00469.d

Injection date and time: 22-SEP-2015 20:15

Instrument ID: HP09464.i

Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m

Sublist used: all

Calibration date and time: 23-SEP-2015 09:08

Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sample Name: VSTD070

Lab Sample ID: VSTD070

Digitally signed by Jeffrey B. Smith  
on 09/23/2015 at 09:32.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15sep22.b/ci00469.d  
 Injection date and time: 22-SEP-2015 20:15

Instrument ID: HP09464.i  
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15sep22.b/to-15.m  
 Calibration date and time: 23-SEP-2015 09:08  
 Date, time and analyst ID of latest file update: 23-Sep-2015 09:08 jbs01304

Sublist used: all

Sample Name: VSTD070

Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.860	41	8608132	54.899
2) Dichlorodifluoromethane	(1)	1.902	85	12648799	31.659
3) Chlorodifluoromethane	(1)	1.914	51	11996278	35.301
4) Freon 114	(1)	2.042	85	12837642	35.818
5) Chloromethane	(1)	2.091	52	4660891	64.671
6) Vinyl Chloride	(1)	2.219	62	9947211	54.781
7) 1,3-Butadiene	(1)	2.267	54	9109941	59.567
8) Bromomethane	(1)	2.584	94	8172825	56.910
9) Chloroethane	(1)	2.705	64	6851544	59.505
10) Bromoethene	(1)	2.930	106	8984569	74.408
11) Dichlorofluoromethane	(1)	2.949	67	16252720	36.534
12) Trichlorofluoromethane	(1)	3.022	101	15638817	37.569
13) Pentane	(1)	3.137	43	16066160	42.445
14) Ethanol	(1)	3.308	45	3248386	34.127
15) Freon123a	(1)	3.429	67	16709557	45.823
16) Acrolein	(1)	3.557	56	2893393	58.352
17) 1,1-Dichloroethene	(1)	3.697	61	15498342	48.826
18) Freon 113	(1)	3.739	103	12306253	61.838
19) Acetone	(1)	3.782	43	10365492	54.369
20) Methyl Iodide	(1)	3.885	142	14534398	62.711
21) Carbon Disulfide	(1)	3.977	76	19199857	37.584
22) Isopropanol	(1)	4.080	45	16412998	58.548
23) Acetonitrile	(1)	4.171	40	3582188	43.750
24) 3-Chloropropene	(1)	4.244	76	5957975	74.664
25) Methylene Chloride	(1)	4.433	84	8932042	63.035
26) tert-Butyl Alcohol	(1)	4.774	59	18981773	77.754
27) Acrylonitrile	(1)	4.859	53	8408218	56.878
28) trans-1,2-Dichloroethene	(1)	4.926	61	15832605	44.160
29) Methyl t-Butyl Ether	(1)	4.999	73	17669521	67.238
30) Hexane	(1)	5.516	57	15227860	66.970
31) 1,1-Dichloroethane	(1)	5.698	63	15298746	52.200
32) Vinyl Acetate	(1)	5.899	86	993622M	72.775
33) Di-Isopropyl Ether	(1)	5.972	45	20944171	66.594
36) 1,2-Dichloroethene (total)	(1)		61	28875363	105.076
34) Ethyl Tert-Butyl Ether	(1)	6.660	59	16845203	79.689
35) cis-1,2-Dichloroethene	(1)	6.793	61	13042758	60.916
37) 2-Butanone	(1)	6.891	72	2819373	78.769
38) Ethyl Acetate	(1)	7.079	70	1874961	91.052

M = Compound was manually integrated.

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Sample Name: VSTD070

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Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.098	55	12409595	77.736
40)*Bromochloromethane	(1)	7.225	130	930895	10.000
41) Tetrahydrofuran	(1)	7.359	42	9452183	75.568
42) Chloroform	(1)	7.432	83	14686710	50.579
43) 1,1,1-Trichloroethane	(1)	7.730	97	14685839	57.394
44) Cyclohexane	(1)	7.834	56	16191225	63.964
45) Carbon Tetrachloride	(1)	8.041	117	14194698	55.501
46) Benzene	(2)	8.418	78	19869841	57.864
47) 1,2-Dichloroethane	(2)	8.448	62	12649645	57.010
48) Isooctane	(2)	8.679	57	29813660	51.402
49) Tert-Amyl Methyl Ether	(2)	8.752	73	14969722	90.334
50) Heptane	(2)	9.081	43	16961203M	61.325
51)*1,4-Difluorobenzene	(2)	9.221	114	3087072	10.000
52) Trichloroethene	(2)	9.683	130	9118145	71.096
53) Ethyl Acrylate	(2)	10.048	55	14378299	86.832
54) 1,2-Dichloropropane	(2)	10.097	63	11252539	76.683
55) Dibromomethane	(2)	10.316	174	7225523	82.205
56) 1,4-Dioxane	(2)	10.462	88	3893458	83.796
57) Methyl Methacrylate	(2)	10.510	69	7121072	87.410
58) Bromodichloromethane	(2)	10.693	83	16241134	55.974
59) cis-1,3-Dichloropropene	(2)	11.660	75	12333066	76.685
60) 4-Methyl-2-Pentanone	(2)	12.092	43	17310240	74.413
61) Toluene	(3)	12.372	91	19227034	62.566
64) 1,3-Dichloropropene (total)	(3)		75	25451699	144.417
62) Octane	(3)	12.841	43	20099263	58.022
63) trans-1,3-Dichloropropene	(3)	12.920	75	13118633	67.732
65) Ethyl Methacrylate	(3)	13.291	69	12899409	90.211
66) 1,1,2-Trichloroethane	(3)	13.303	97	10482954	77.692
67) Tetrachloroethene	(3)	13.601	166	11446293	86.954
68) 2-Hexanone	(3)	14.015	43	18045337	70.815
69) Dibromochloromethane	(3)	14.167	127	12742889	66.726
70) 1,2-Dibromoethane	(3)	14.374	107	12698023	69.051
71)*Chlorobenzene-d5	(3)	15.548	117	3141232	10.000
72) Chlorobenzene	(3)	15.621	112	17364377	70.180
73) 1,1,1,2-Tetrachloroethane	(3)	15.864	131	10570929	80.623
74) Ethylbenzene	(3)	15.980	91	22028606	66.854
75) m/p-Xylene	(3)	16.290	91	19790011	75.586
77) Xylene (total)	(3)		91	41884211	154.911

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 \* = Compound is an internal standard.

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