

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
 Data File : VL032008.D
 Acq On : 16 May 2018 19:41
 Operator : SY/AP
 Sample : J2942-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

Manual Integrations
 APPROVED

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 5/17/2018 3:34:14 PM

Quant Time: May 17 15:05:19 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1344411	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2042795	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.37	117	2087041	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	1669097	10.31	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	34017	0.19	ppbv	93
4) Chloromethane	3.25	50	33846	0.51	ppbv	91
9) Propene	3.12	41	26352	0.57	ppbv #	77
11) Trichlorofluoromethane	4.10	101	41292m	0.19	ppbv	
13) Ethanol	3.75	45	1378463	79.63	ppbv #	100
15) Acetone	3.99	43	1420946	7.48	ppbv	95
19) Isopropyl Alcohol	4.13	45	661362	6.44	ppbv	100
20) Methylene Chloride	4.51	84	281596	4.39	ppbv	91
26) Hexane	5.89	57	250935	1.64	ppbv #	51
34) 2-Butanone	5.44	43	123281	0.73	ppbv	100
35) Carbon Tetrachloride	7.25	117	12466m	0.08	ppbv	
36) Benzene	7.13	78	28175m	0.15	ppbv	
52) Tetrachloroethene	11.51	164	2519m	0.04	ppbv	
53) Toluene	10.08	91	115596m	0.56	ppbv	
59) m/p-Xylene	13.25	91	80215m	0.32	ppbv	
60) o-Xylene	13.98	91	35567m	0.14	ppbv	
61) Styrene	13.82	104	13728m	0.27	ppbv	
72) 4-Ethyltoluene	16.13	105	36125m	0.14	ppbv	
73) 1,3,5-Trimethylbenzene	16.29	105	35814	0.15	ppbv	100
74) 1,2,4-Trimethylbenzene	17.06	105	120312	0.46	ppbv #	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

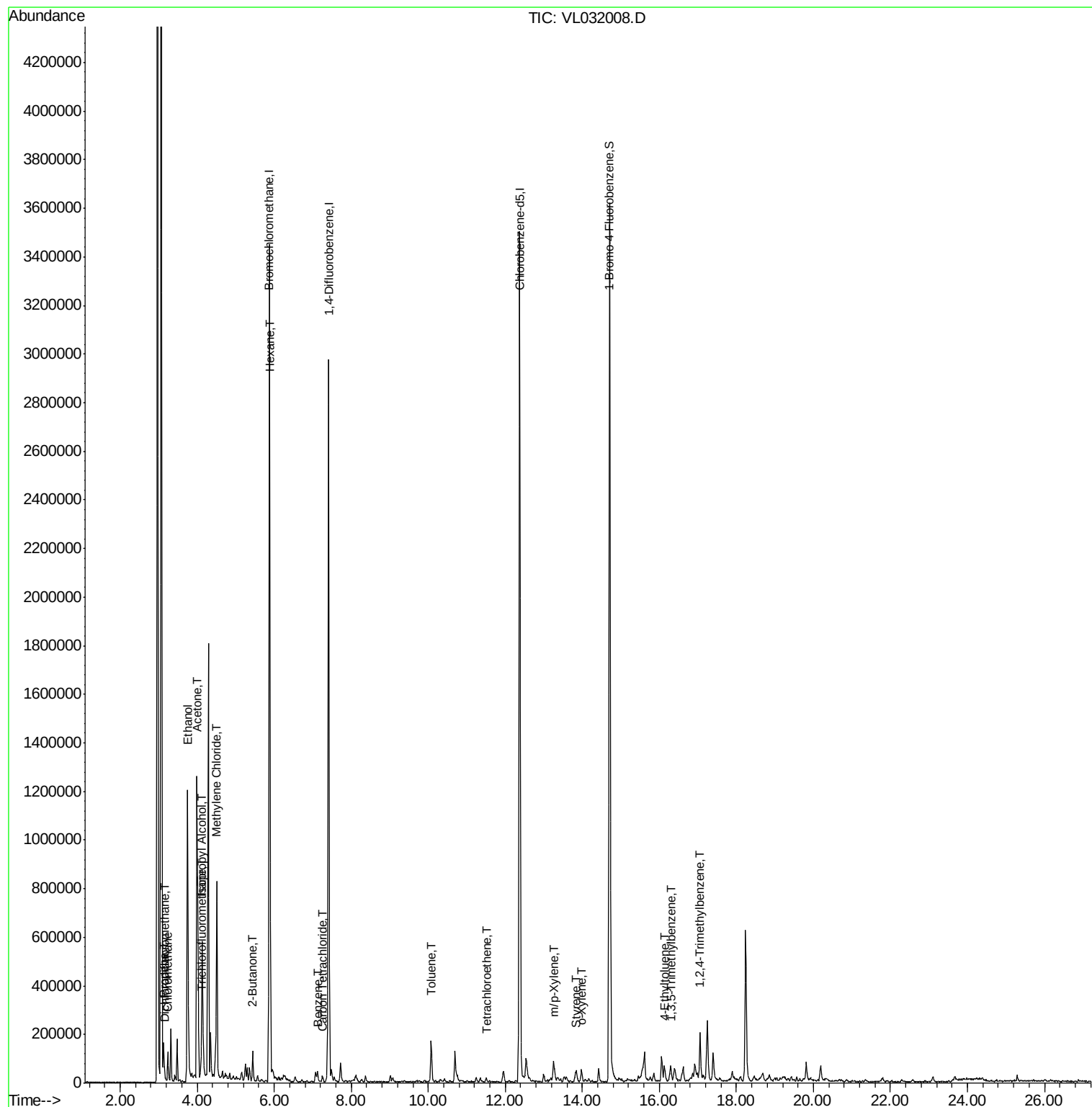
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
Data File : VL032008.D
Acq On : 16 May 2018 19:41
Operator : SY/AP
Sample : J2942-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

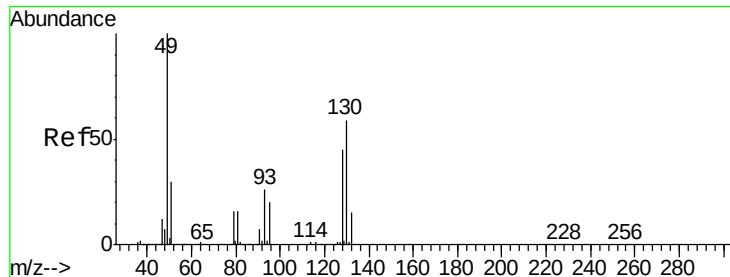
Instrument :
MSVOA_L
ClientSampled :
VZW1

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Quant Time: May 17 15:05:19 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





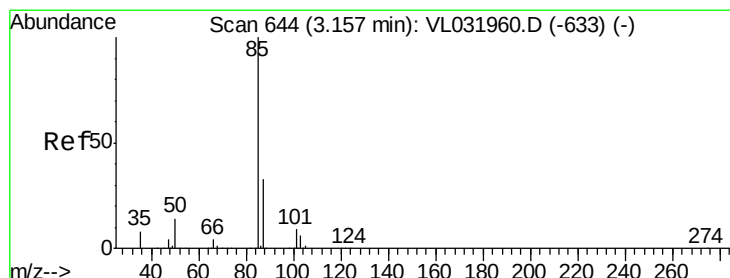
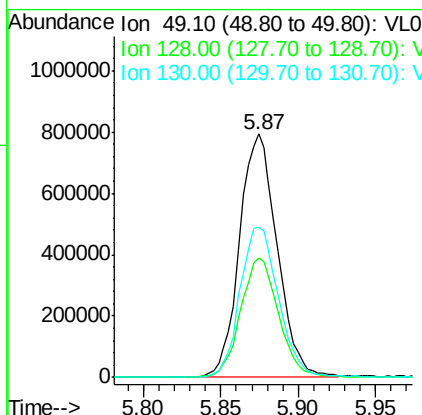
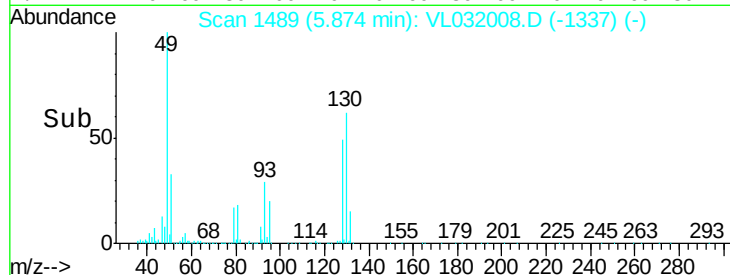
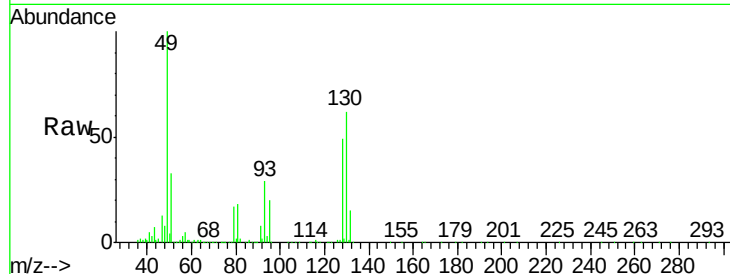
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.87 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Instrument :
 MSVOA_L
 ClientSampled :
 VZW1

Tot Ion	49	Resp	1344411
Ion Ratio	100	Lower	Upper
49	100		
128	49.7	24.1	72.3
130	63.8	30.7	92.1

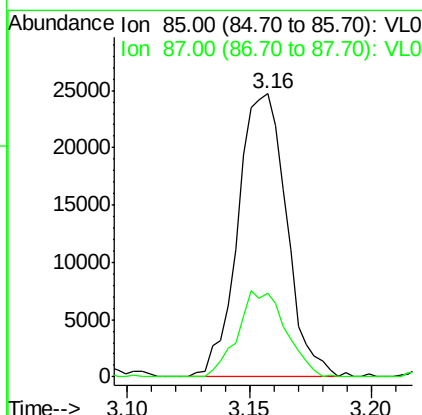
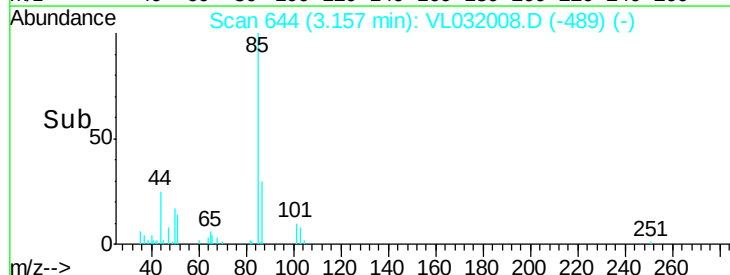
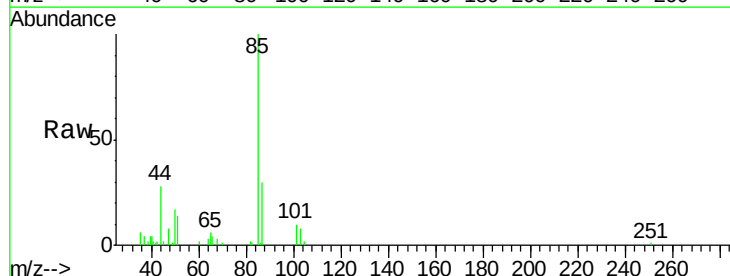
Manual Integrations
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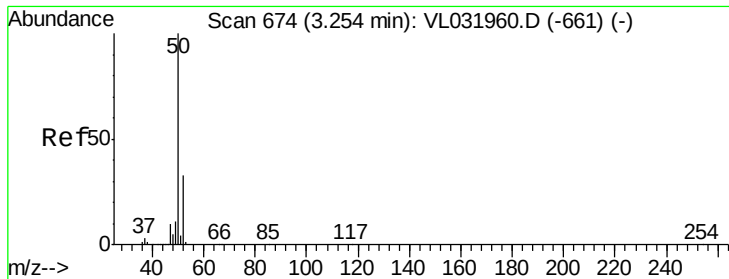
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#2
 Dichlorodifluoromethane
 Concen: 0.19 ppbv
 RT: 3.16 min Scan# 644
 Delta R.T. -0.00 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion	85	Resp	34017
Ion Ratio	100	Lower	Upper
85	100		
87	29.7	26.8	40.2





#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampled :

VZW1

Tot Ion: 50 Resp: 33846

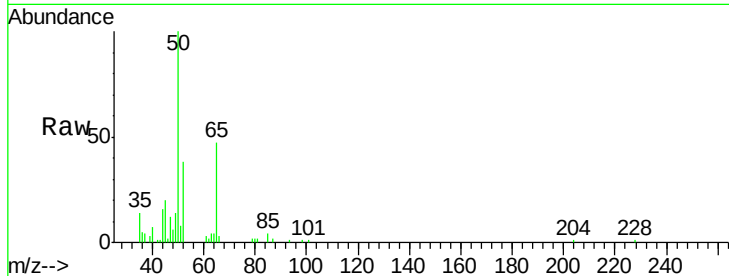
Ion Ratio Lower Upper

50 100

52 38.1 26.6 39.8

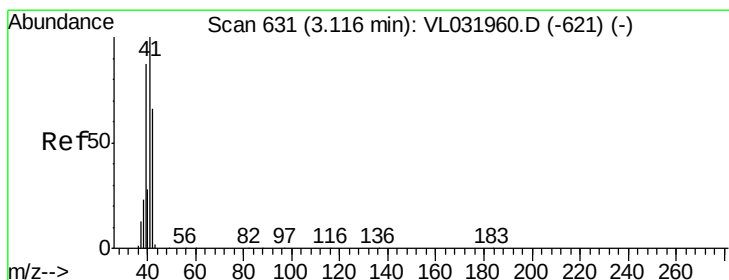
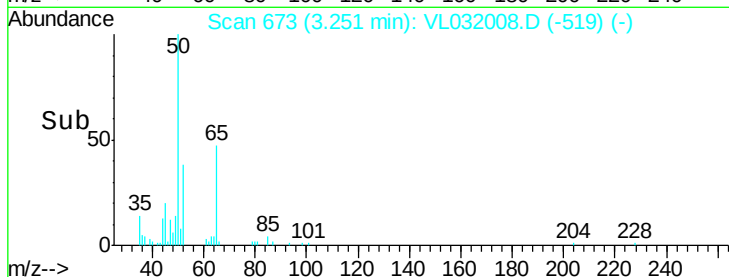
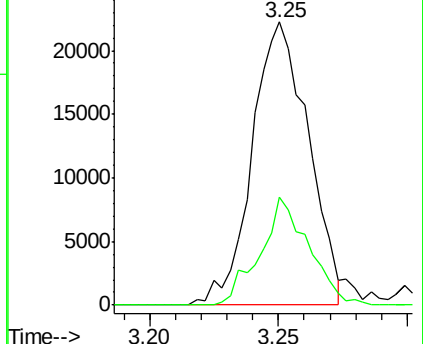
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.57 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.01 min

Lab File: VL032008.D

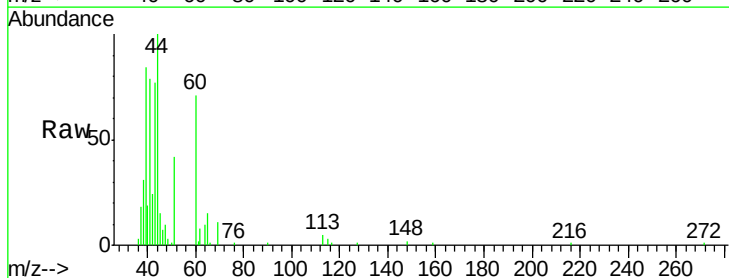
Acq: 16 May 2018 19:41

Tgt Ion: 41 Resp: 26352

Ion Ratio Lower Upper

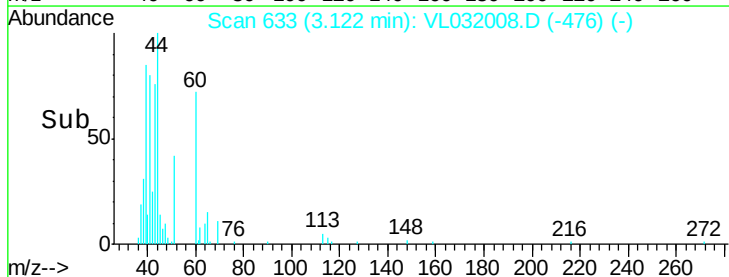
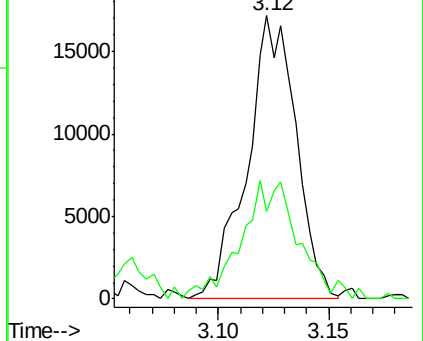
41 100

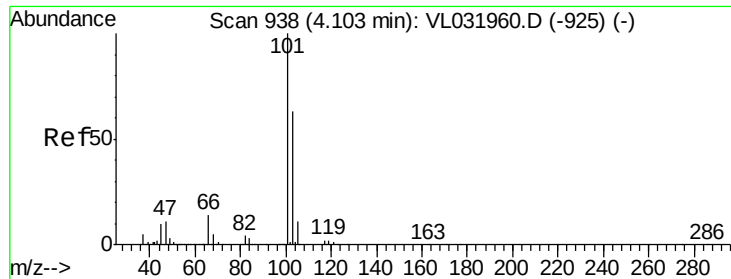
42 49.2 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





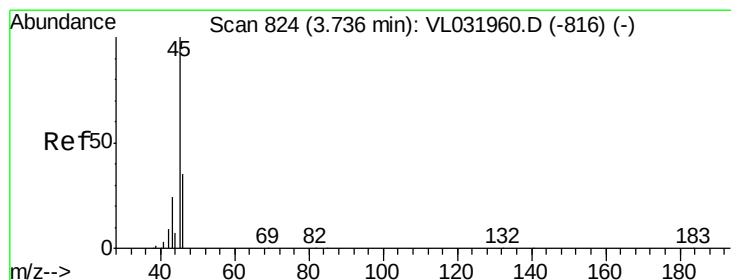
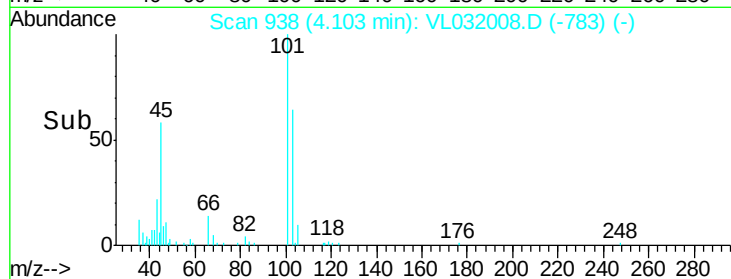
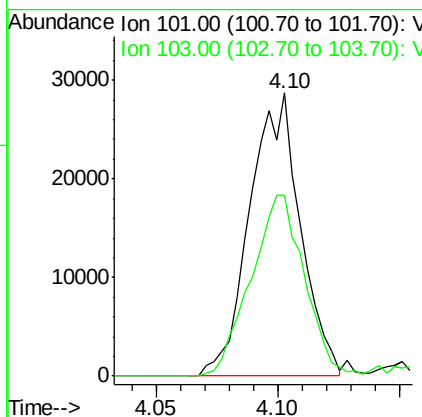
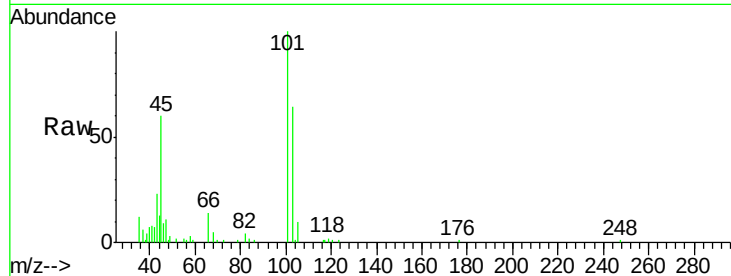
#11
Trichlorofluoromethane
Concen: 0.19 ppbv m
RT: 4.10 min Scan# 938
Delta R.T. -0.00 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Instrument :
MSVOA_L
ClientSampleId :
VZW1

Tot Ion:101 Resp: 41292
Ion Ratio Lower Upper
101 100
103 63.8 50.7 76.1

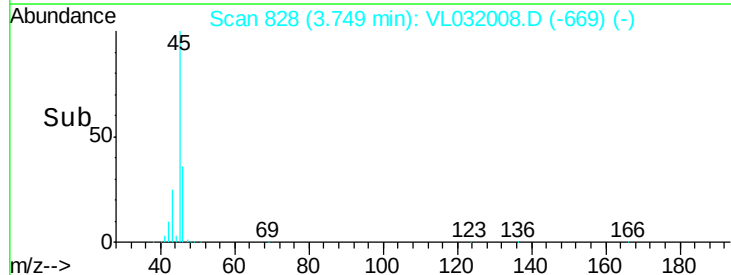
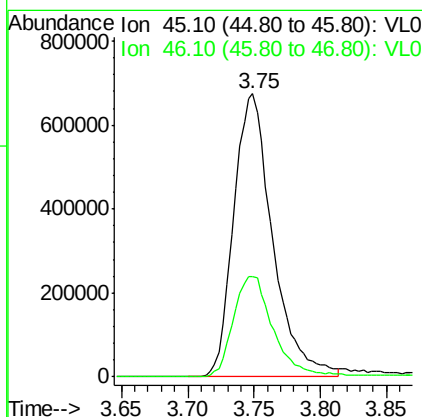
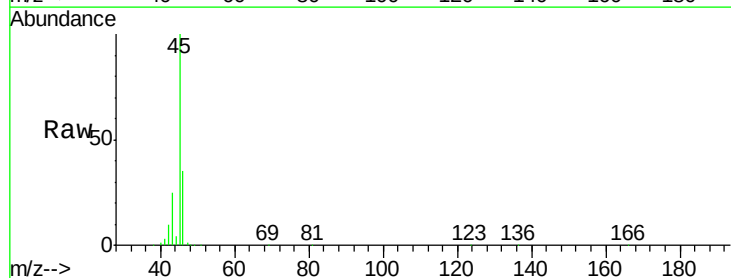
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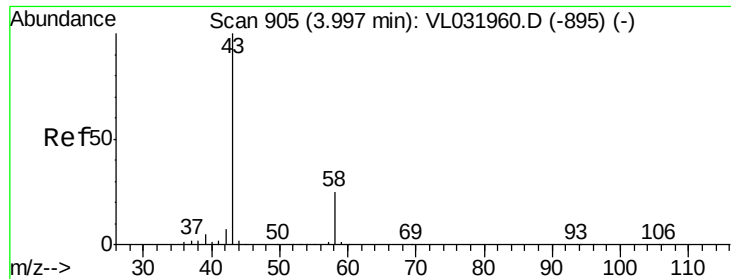
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#13
Ethanol
Concen: 79.63 ppbv
RT: 3.75 min Scan# 828
Delta R.T. 0.01 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion: 45 Resp: 1378463
Ion Ratio Lower Upper
45 100
46 36.9 0.0 0.0#





#15

Acetone

Concen: 7.48 ppbv

RT: 3.99 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

Tot Ion: 43 Resp: 1420946

Ion Ratio Lower Upper

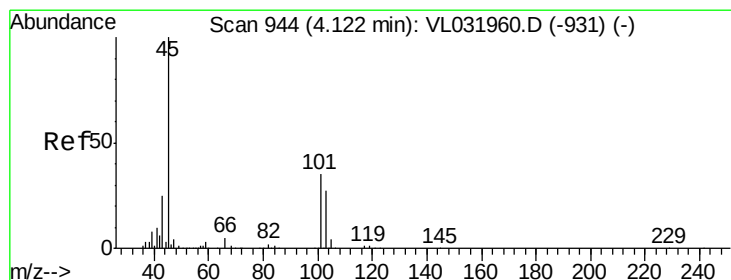
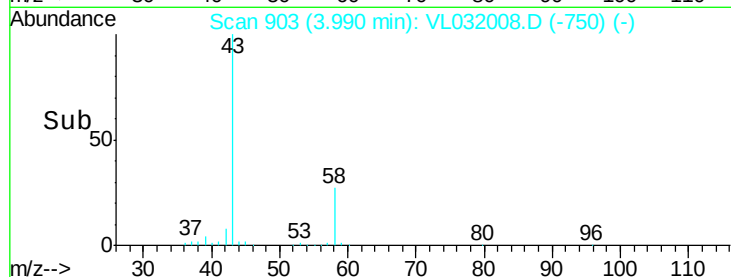
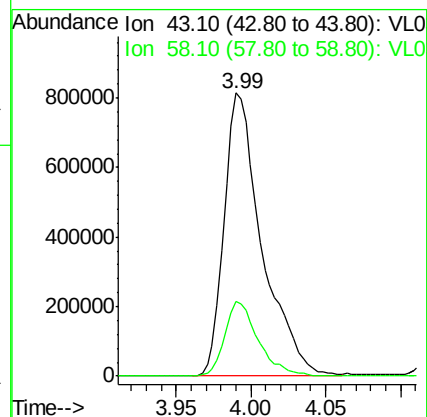
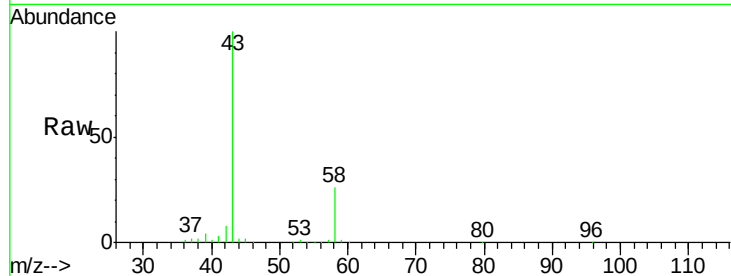
43 100

58 23.7 21.1 31.7

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 6.44 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.01 min

Lab File: VL032008.D

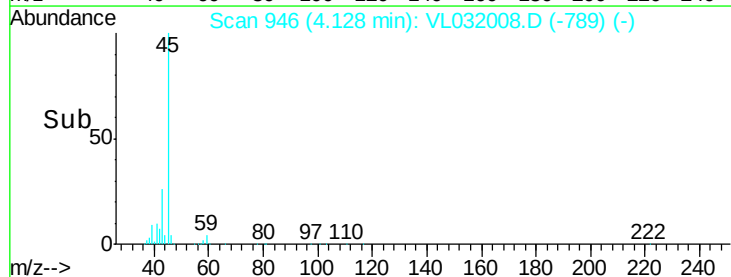
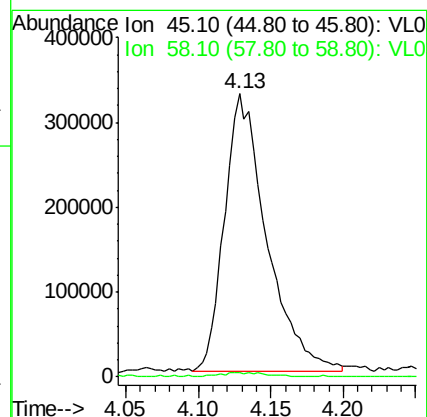
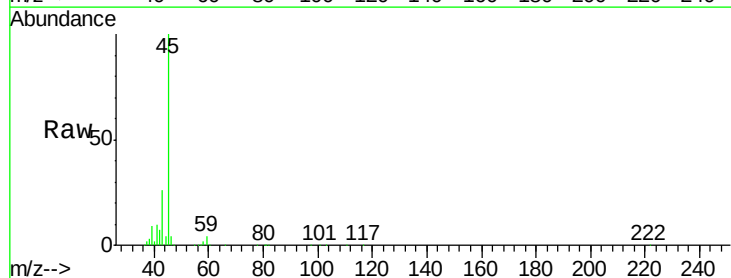
Acq: 16 May 2018 19:41

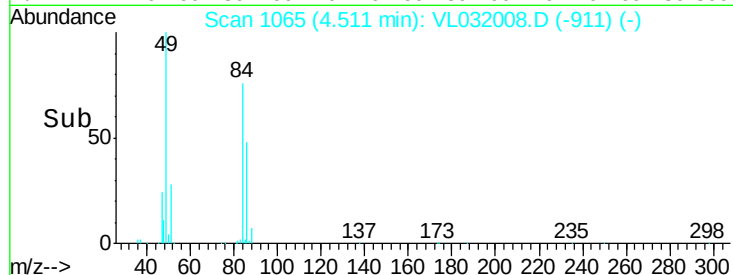
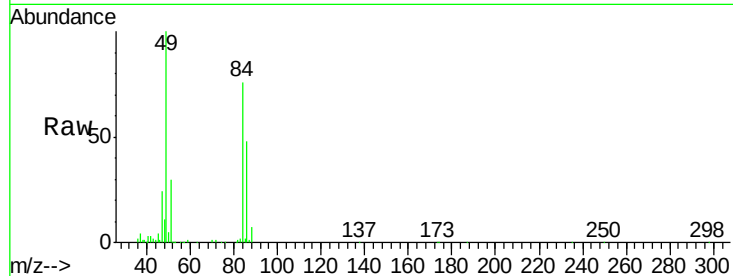
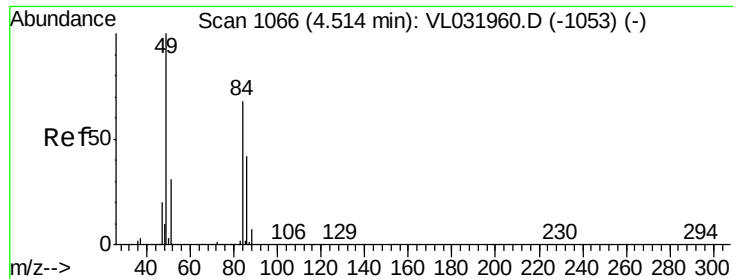
Tgt Ion: 45 Resp: 661362

Ion Ratio Lower Upper

45 100

58 1.6 1.4 2.2





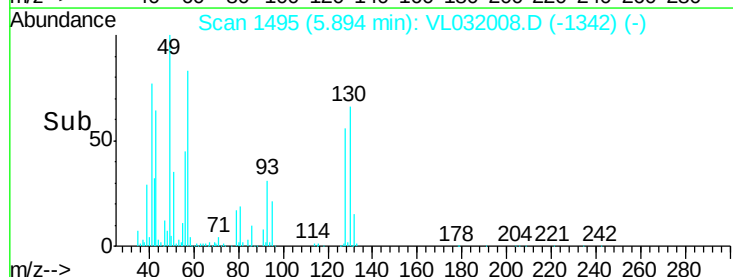
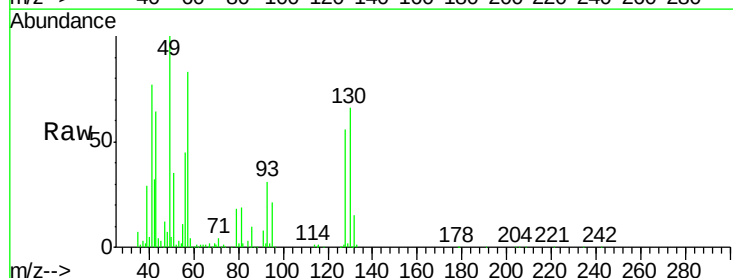
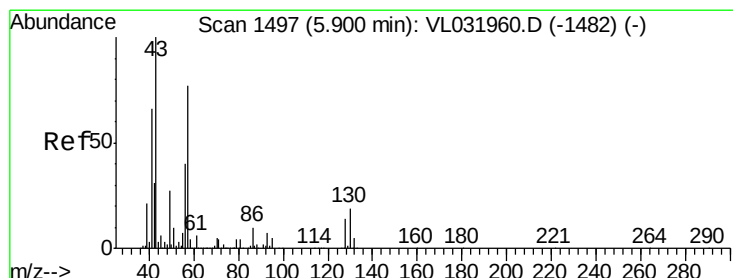
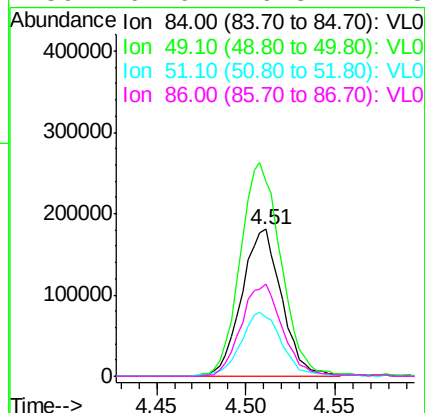
#20
Methvlene Chloride
Concen: 4.39 ppbv
RT: 4.51 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tot Ion	84	Resp	281596
Ion Ratio	Lower	Upper	
84	100		
49	131.7	118.6	178.0
51	39.7	36.6	54.8
86	62.6	49.8	74.8

Instrument :
MSVOA_L
ClientSampleId :
VZW1

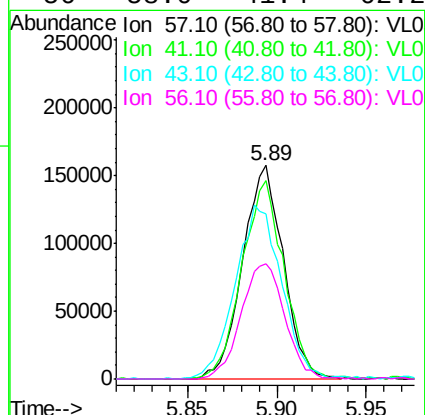
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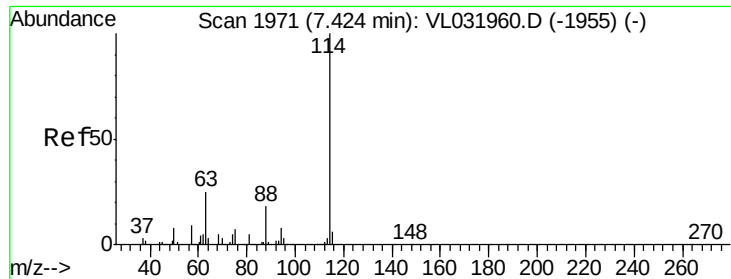
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#26
Hexane
Concen: 1.64 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.01 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion	57	Resp	250935
Ion Ratio	Lower	Upper	
57	100		
41	96.7	71.8	107.6
43	93.4	171.5	257.3#
56	58.0	41.4	62.2





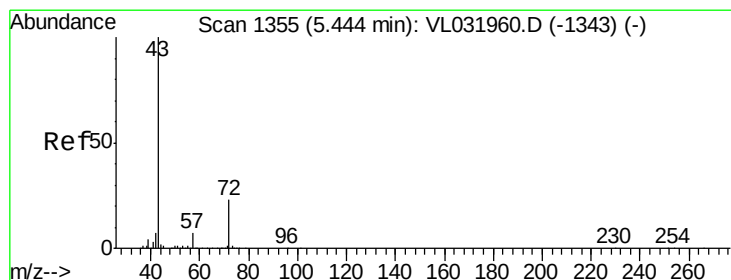
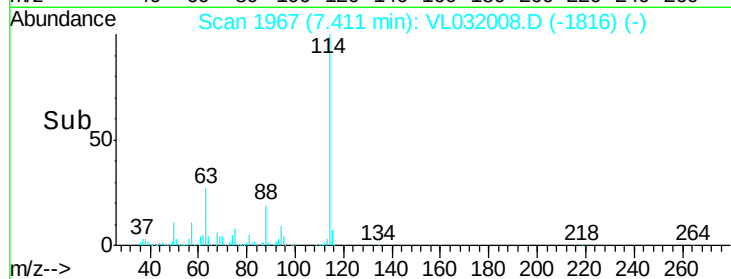
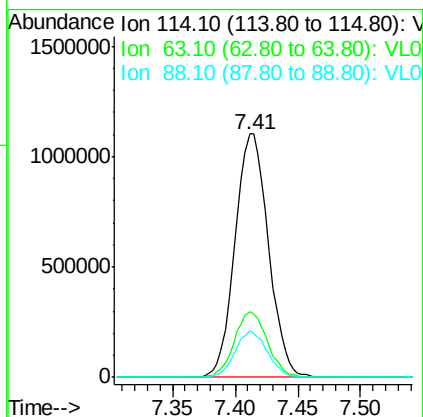
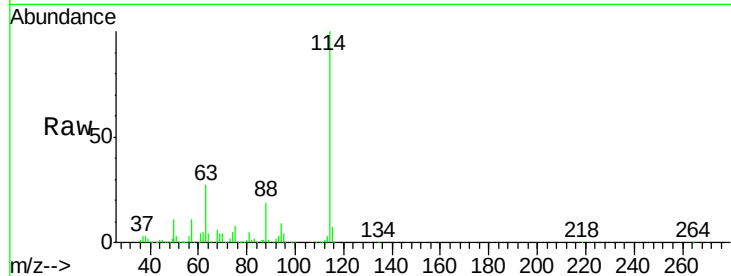
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 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1967
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	20.8	31.2
88	18.4	14.6	21.8

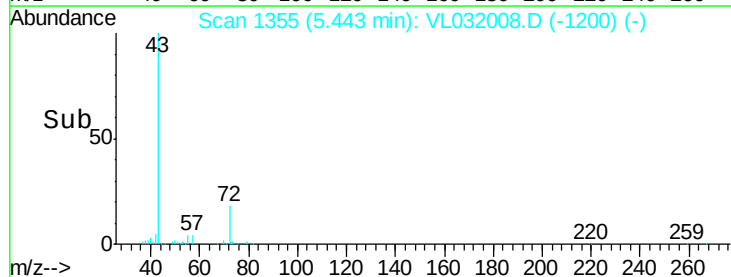
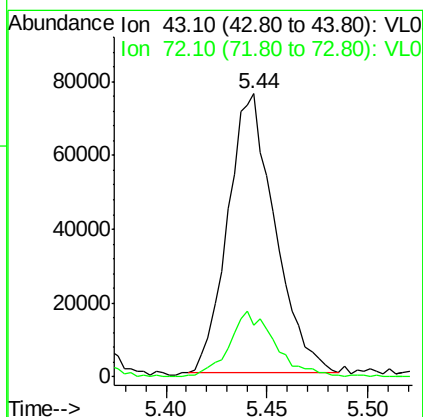
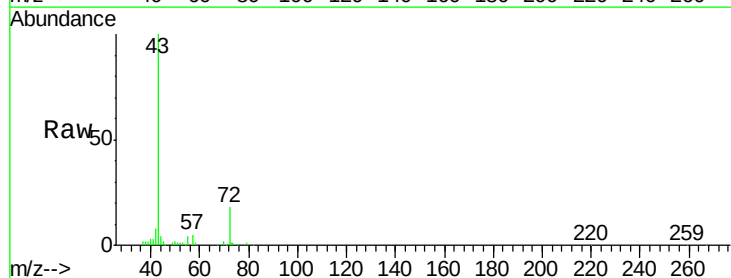
Manual Integrations
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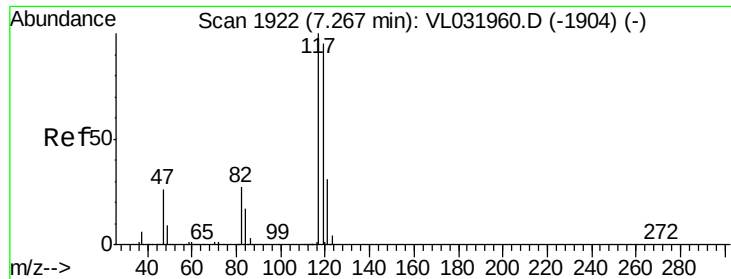
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#34
 2-Butanone
 Concen: 0.73 ppbv
 RT: 5.44 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.3	27.5





#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.25 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

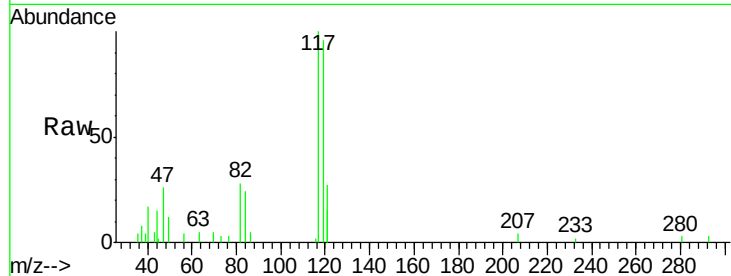
ClientSampled :

VZW1

Tot Ion:	117	Resp:	12466
Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.4	114.6
121	27.3	24.4	36.6

Manual Integrations
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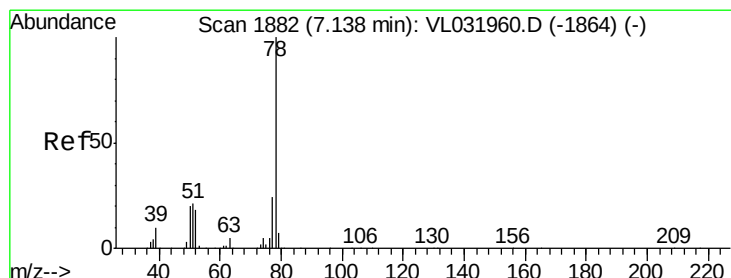
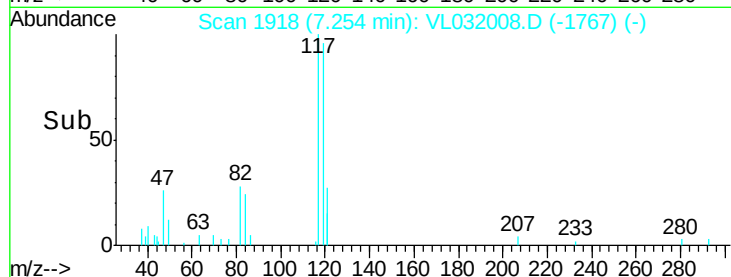
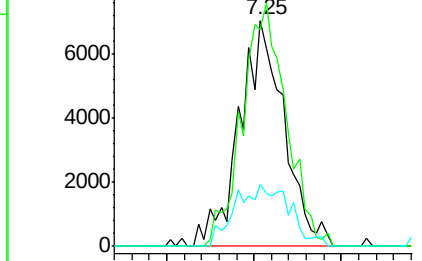
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.15 ppbv m

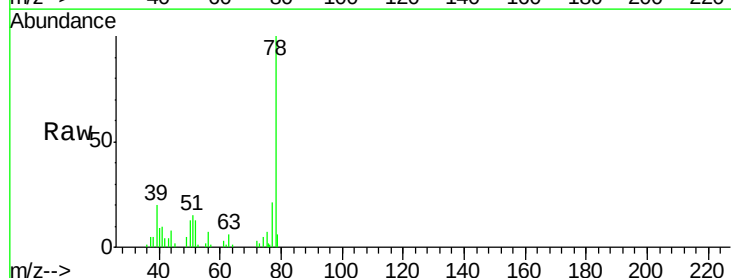
RT: 7.13 min Scan# 1878

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

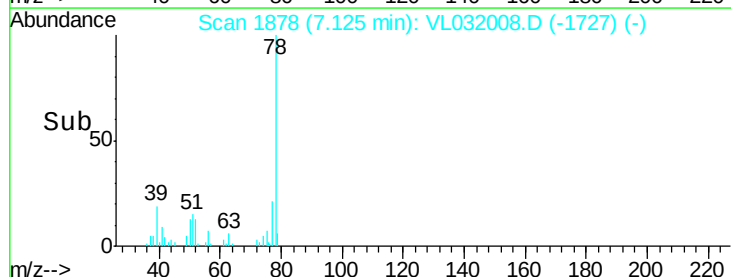
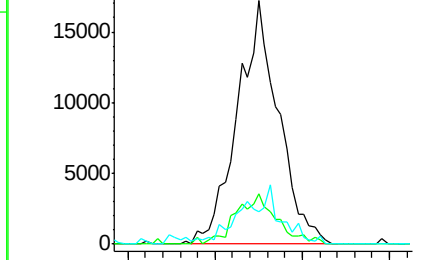
Tgt Ion:	78	Resp:	28175
Ion	Ratio	Lower	Upper
78	100		
77	20.5	19.2	28.8
50	13.3	16.2	24.4#

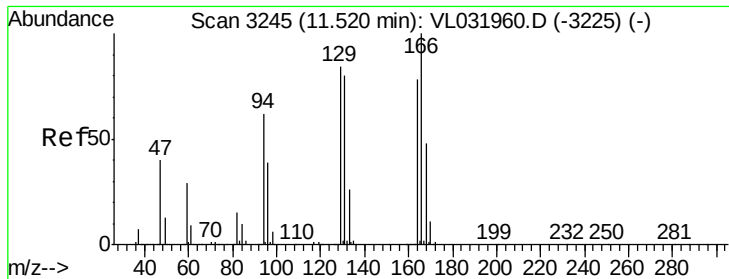


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#52

Tetrachloroethene

Concen: 0.04 ppbv m

RT: 11.51 min Scan# 3241

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

Tot Ion:164 Resp: 2519

Ion Ratio Lower Upper

164 100

166 236.0 101.9 152.9#

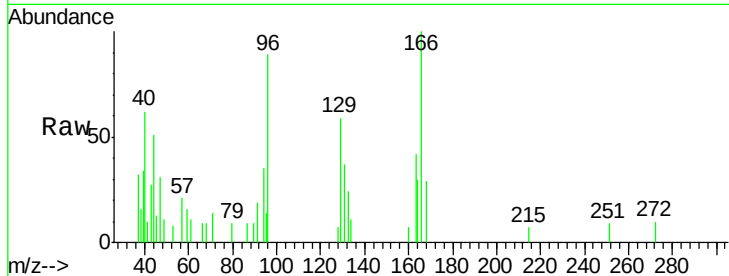
129 138.9 85.8 128.6#

131 88.0 81.6 122.4

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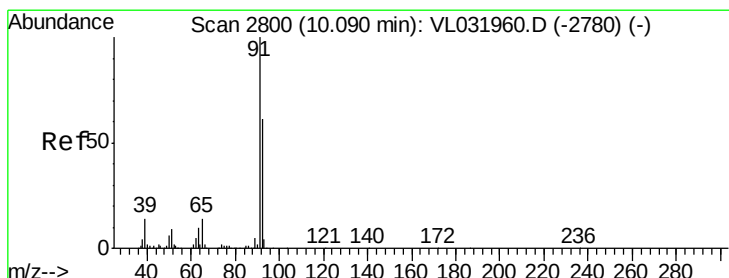
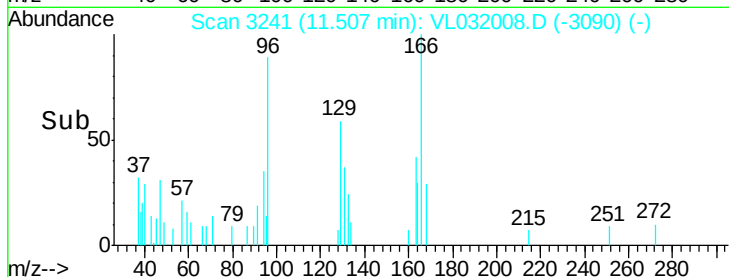
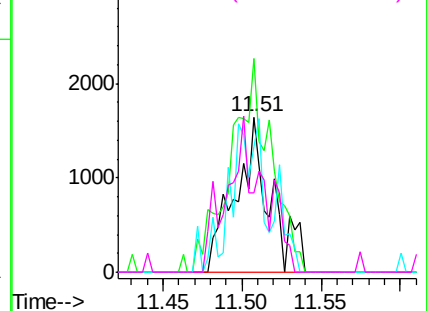


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.56 ppbv m

RT: 10.08 min Scan# 2796

Delta R.T. -0.01 min

Lab File: VL032008.D

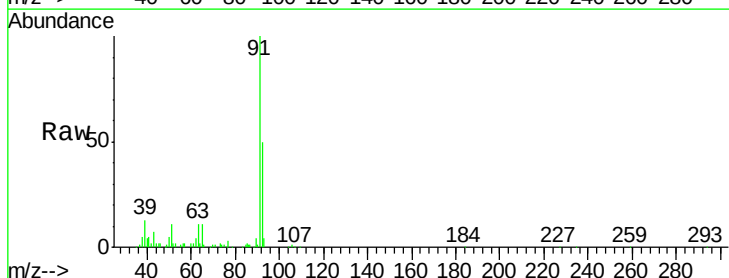
Acq: 16 May 2018 19:41

Tgt Ion: 91 Resp: 115596

Ion Ratio Lower Upper

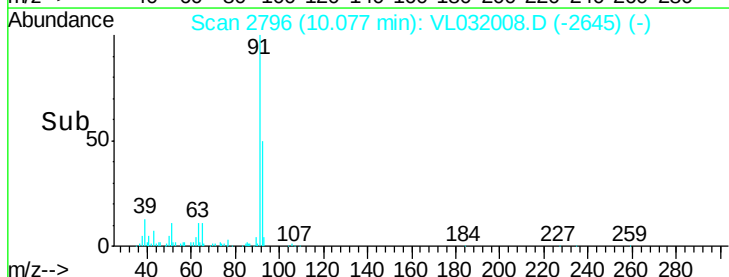
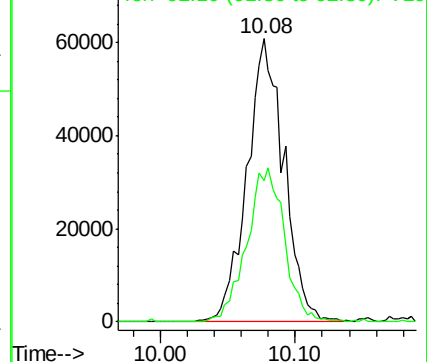
91 100

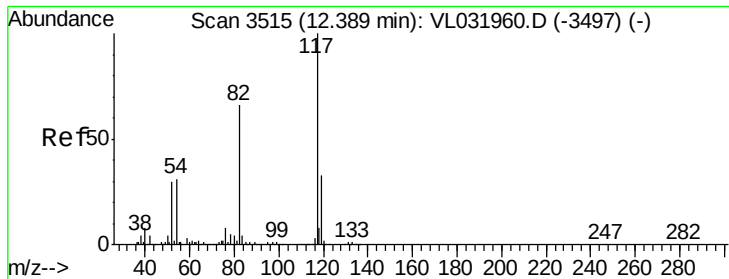
92 55.6 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





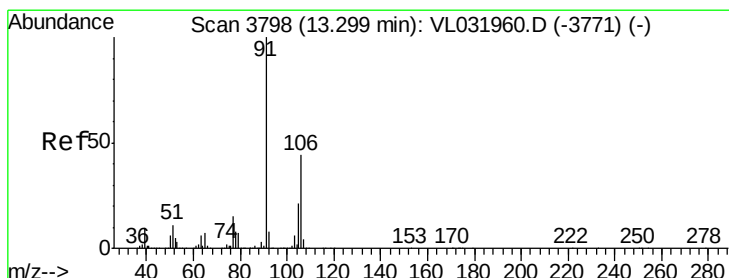
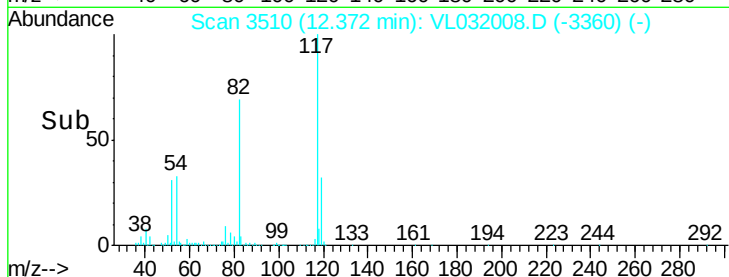
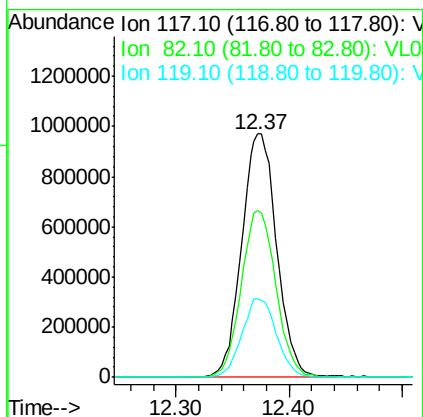
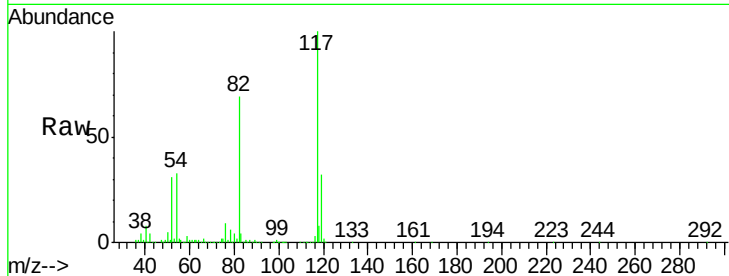
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. -0.02 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Instrument :
MSVOA_L
ClientSampleId :
VZW1

Tot Ion:117 Resp: 2087041
Ion Ratio Lower Upper
117 100
82 68.0 51.6 77.4
119 32.2 44.2 66.4#

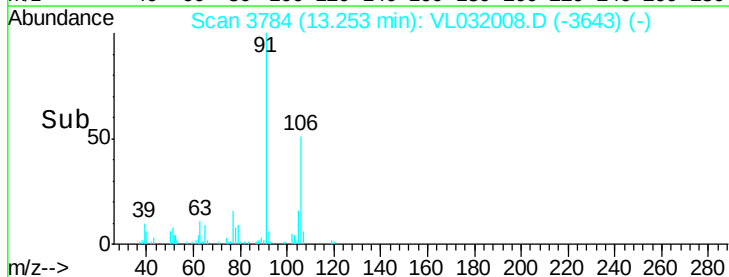
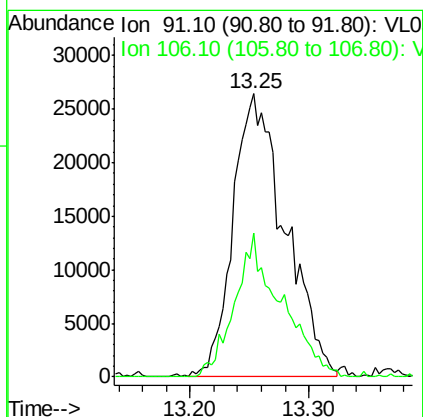
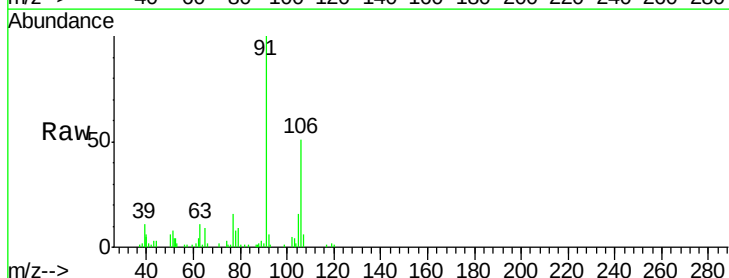
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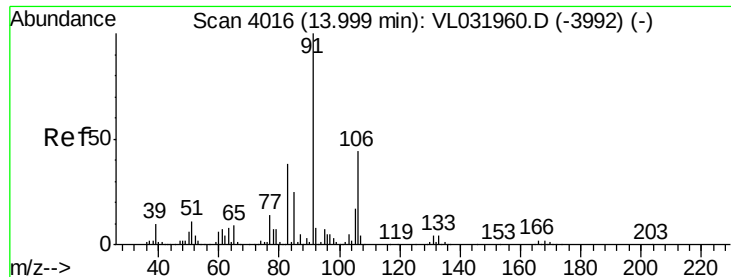
MMDadoda
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#59
m/p-Xylene
Concen: 0.32 ppbv m
RT: 13.25 min Scan# 3784
Delta R.T. -0.05 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion: 91 Resp: 80215
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#





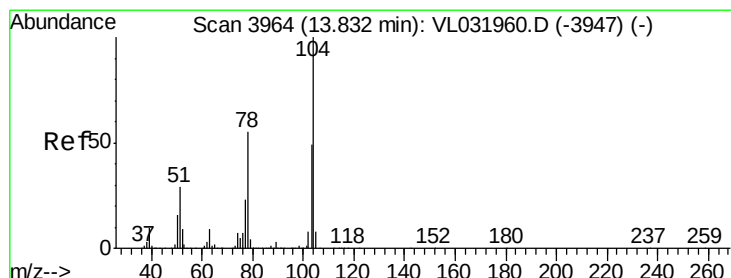
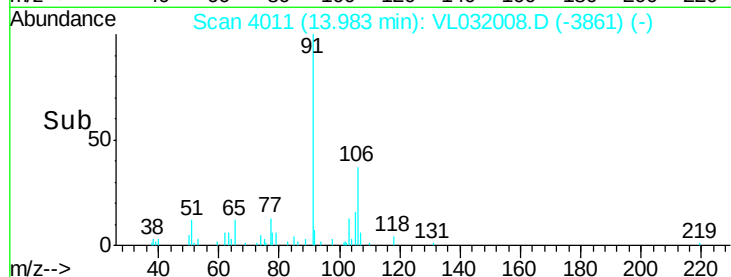
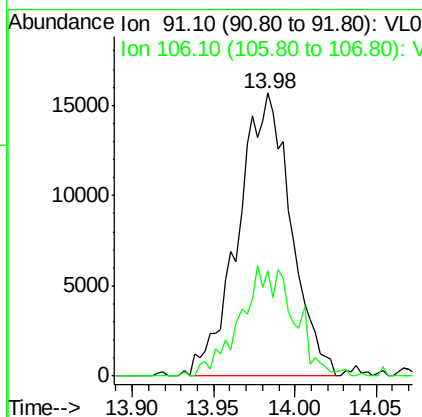
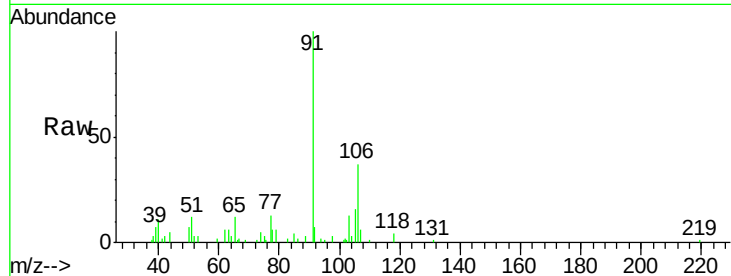
#60
o-Xylene
Concen: 0.14 ppbv m
RT: 13.98 min Scan# 4011
Delta R.T. -0.02 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Instrument :
MSVOA_L
ClientSampled :
VZW1

Tot Ion: 91 Resp: 35567
Ion Ratio Lower Upper
91 100
106 0.0 21.5 64.5#

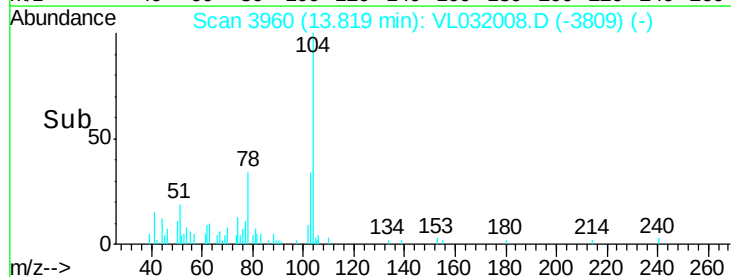
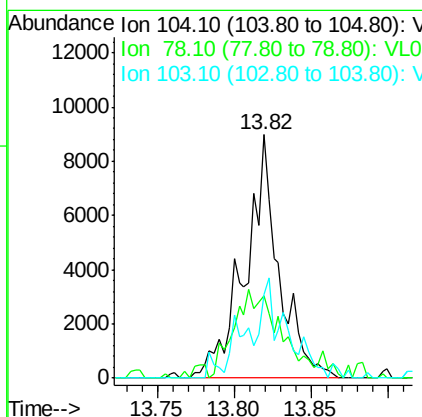
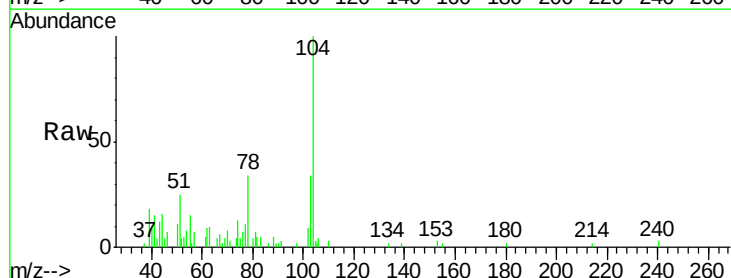
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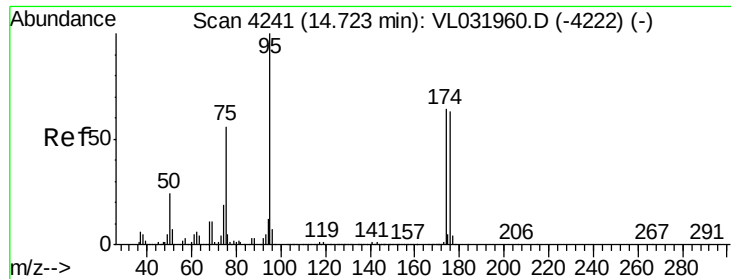
MMDadoda
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#61
Styrene
Concen: 0.27 ppbv m
RT: 13.82 min Scan# 3960
Delta R.T. -0.01 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion:104 Resp: 13728
Ion Ratio Lower Upper
104 100
78 57.9 43.8 65.8
103 48.2 38.4 57.6





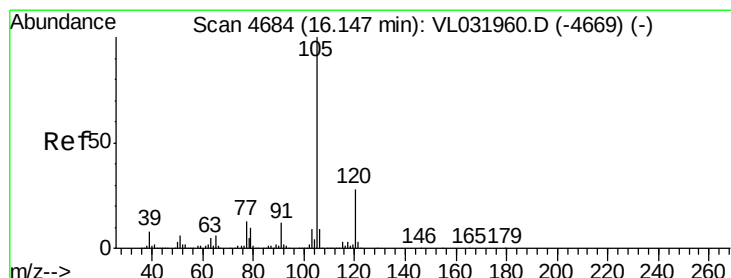
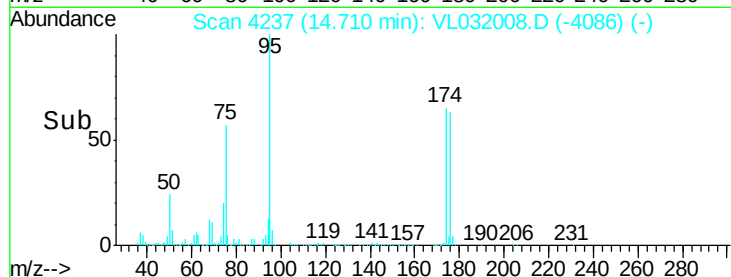
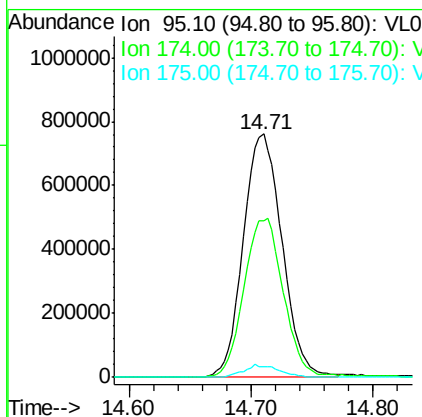
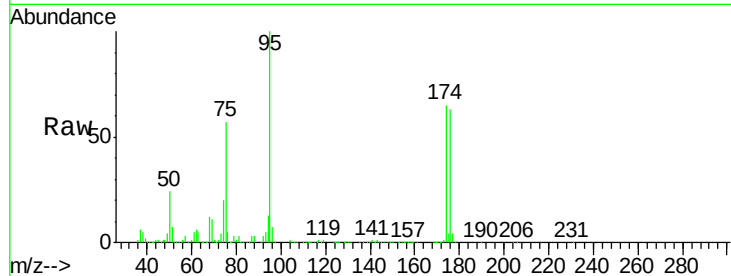
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.31 ppbv
 RT: 14.71 min Scan# 4237
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Instrument :
 MSVOA_L
 ClientSampled :
 VZW1

Tot Ion: 95 Resp: 1669097
 Ion Ratio Lower Upper
 95 100
 174 67.3 53.0 79.6
 175 4.8 3.9 5.9

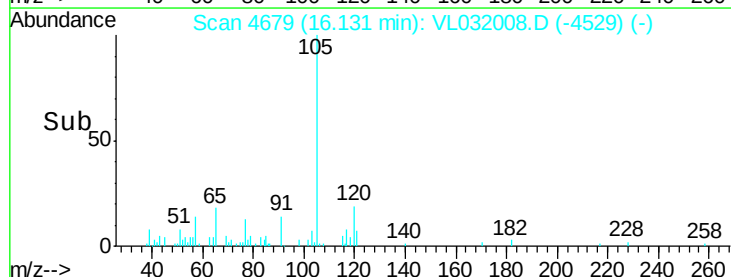
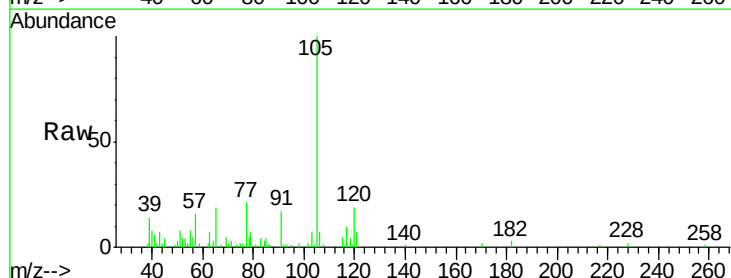
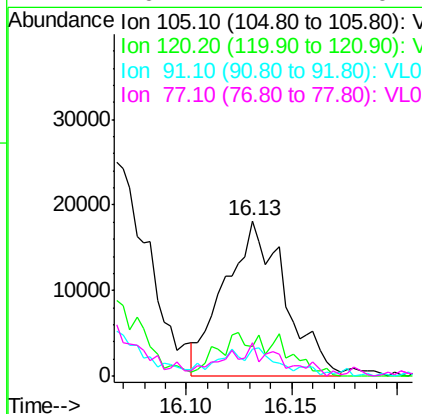
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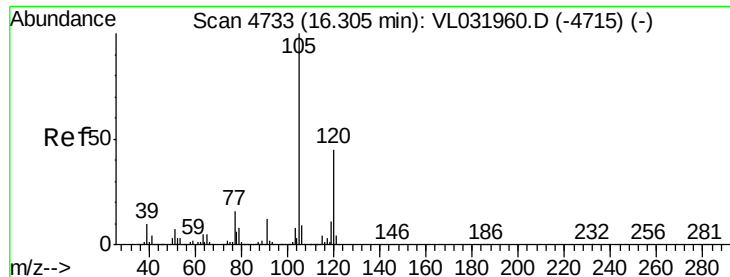
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#72
 4-Ethyltoluene
 Concen: 0.14 ppbv m
 RT: 16.13 min Scan# 4679
 Delta R.T. -0.02 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion: 105 Resp: 36125
 Ion Ratio Lower Upper
 105 100
 120 29.7 22.6 33.8
 91 16.2 10.5 15.7#
 77 20.4 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.15 ppbv

RT: 16.29 min Scan# 4729

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampled :

VZW1

Tot Ion:105 Resp: 35814

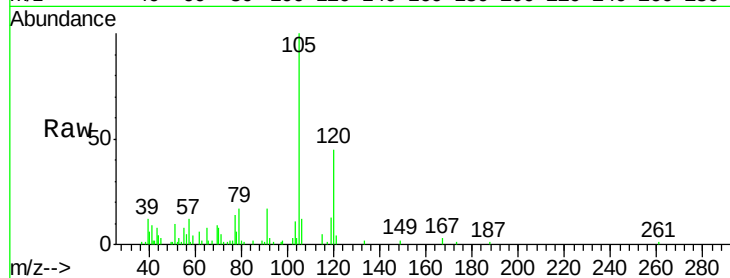
Ion Ratio Lower Upper

105 100

120 45.1 36.0 54.0

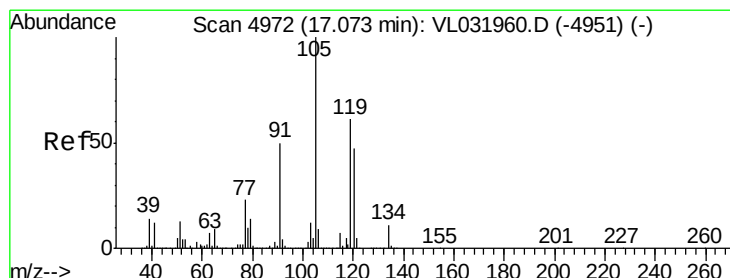
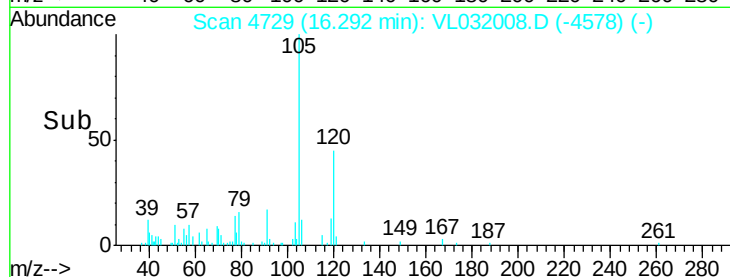
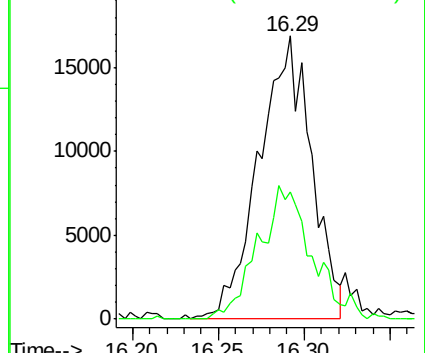
Manual Integrations
APPROVED

MMDadoda
5/17/2018 3:34:14 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.46 ppbv

RT: 17.06 min Scan# 4967

Delta R.T. -0.02 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Tgt Ion:105 Resp: 120312

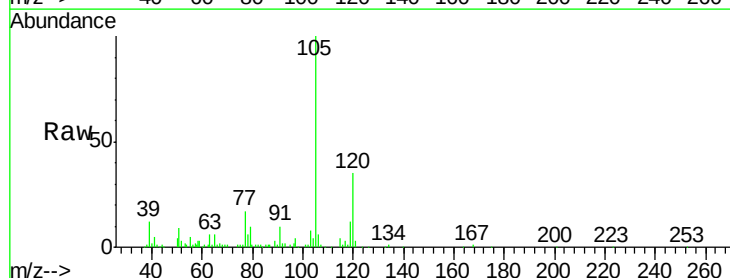
Ion Ratio Lower Upper

105 100

120 35.2 37.8 56.6#

91 9.9 40.5 60.7#

77 16.5 18.2 27.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

