

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032948.D
 Acq On : 7 Dec 2018 23:43
 Operator : SY/AP
 Sample : J6262-03 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:09:43 AM

Quant Time: Dec 10 20:23:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1311967	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3285910	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.27	117	3148398	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2618649	11.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	97213m	0.978	ppbv	
9) Propene	3.05	41	8728	0.222	ppbv	86
13) Ethanol	3.66	45	62840	4.645	ppbv	95
15) Acetone	3.91	43	623900	5.540	ppbv	99
19) Isopropyl Alcohol	4.05	45	33751	0.477	ppbv #	95
22) trans-1,2-Dichloroethene	4.97	96	115517	1.688	ppbv	89
26) Hexane	5.78	57	92138	0.750	ppbv #	46
27) Carbon Disulfide	4.63	76	49094	0.320	ppbv #	84
29) Chloroform	5.85	83	52059	0.238	ppbv #	80
31) cis-1,2-Dichloroethene	5.64	61	1676563	14.876	ppbv	98
34) 2-Butanone	5.35	43	26458m	0.185	ppbv	
38) Trichloroethene	7.97	130	9242539	91.891	ppbv	97
52) Tetrachloroethene	11.44	164	72030449m	819.332	ppbv	
53) Toluene	9.96	91	114267	0.446	ppbv	95
58) Ethyl Benzene	12.89	91	50662m	0.151	ppbv	
59) m/p-Xylene	13.15	91	165736	0.544	ppbv #	100
60) o-Xylene	13.87	91	89822	0.292	ppbv	97
72) 4-Ethyltoluene	16.02	105	48340m	0.141	ppbv	
73) 1,3,5-Trimethylbenzene	16.17	105	45725	0.136	ppbv	91
74) 1,2,4-Trimethylbenzene	16.94	105	143726	0.380	ppbv #	72

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

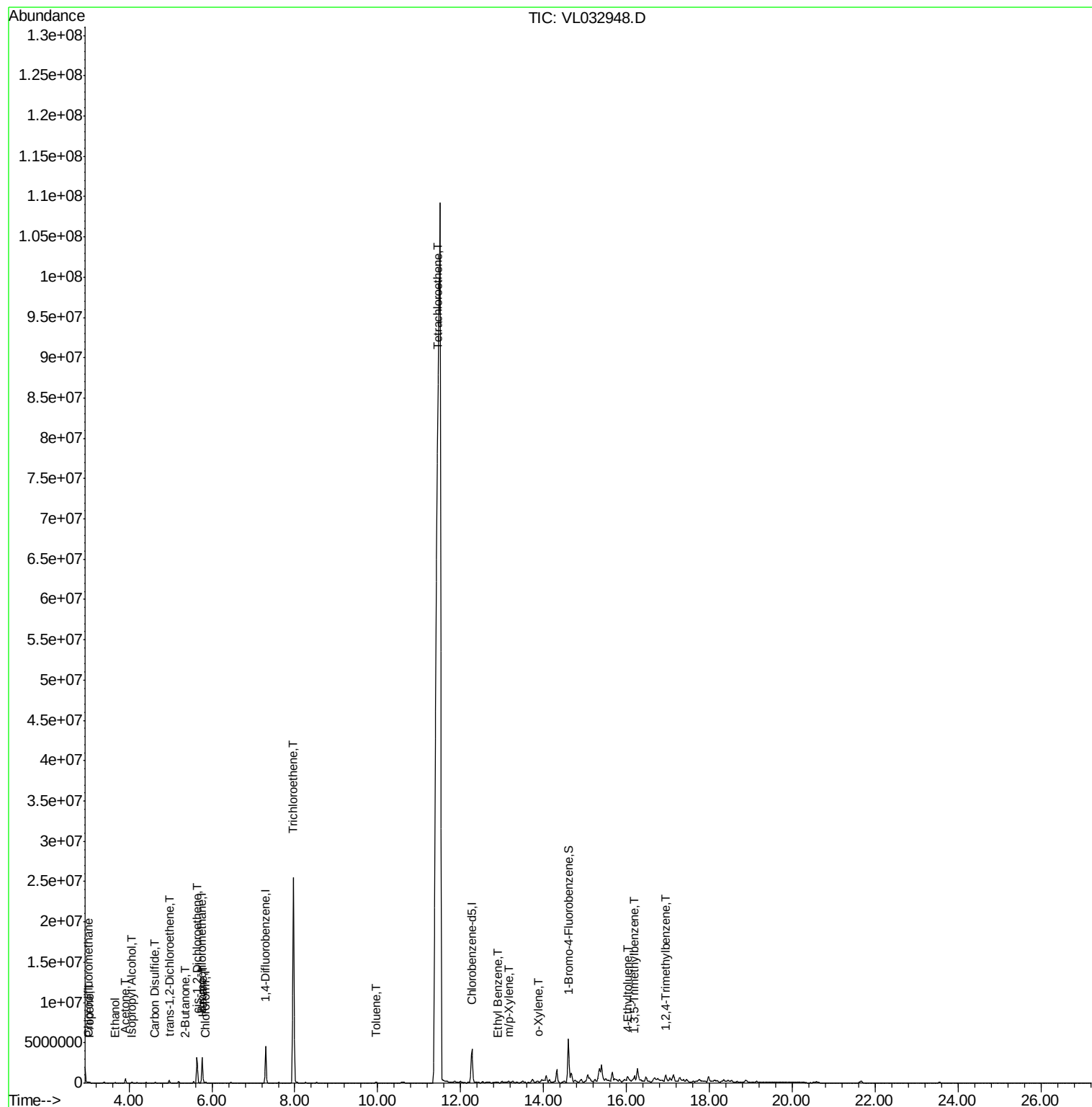
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
Data File : VL032948.D
Acq On : 7 Dec 2018 23:43
Operator : SY/AP
Sample : J6262-03 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

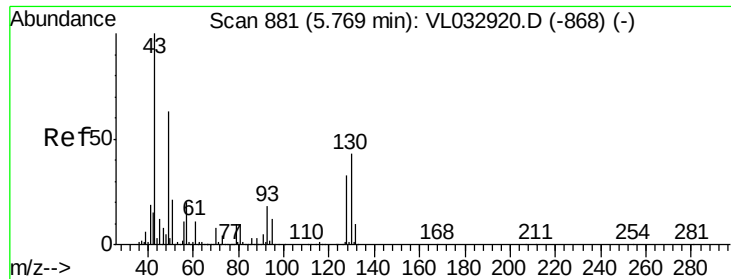
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Time: Dec 10 20:23:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampled :

SV1

Tgt Ion: 49 Resp: 1311967

Ion Ratio Lower Upper

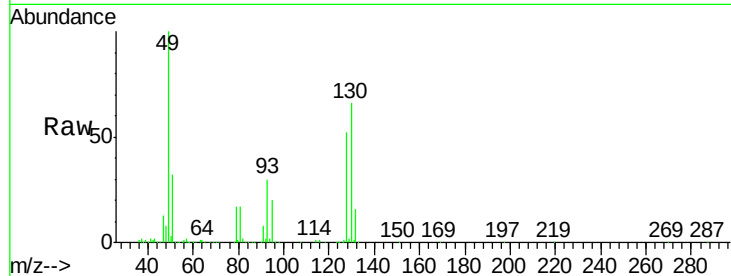
49 100

128 51.8 26.3 78.8

130 66.0 33.9 101.7

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

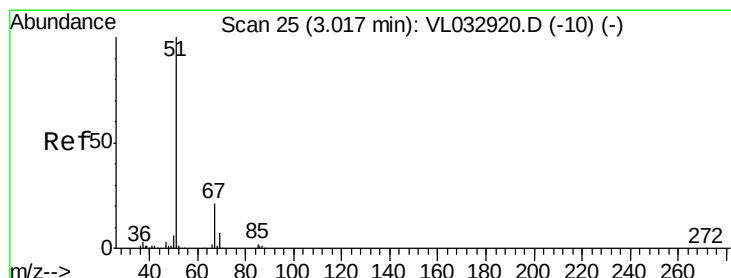
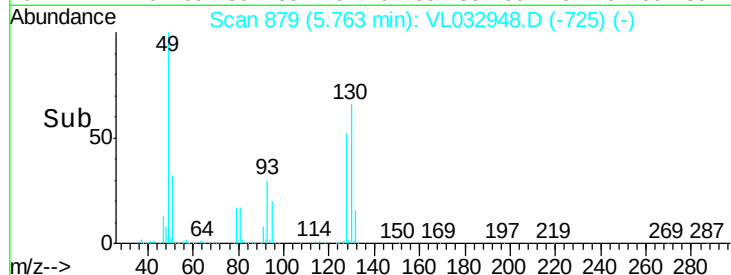
200000

0

5.76

5.70 5.75 5.80 5.85

Time-->



#3

Chlorodifluoromethane

Concen: 0.978 ppbv m

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032948.D

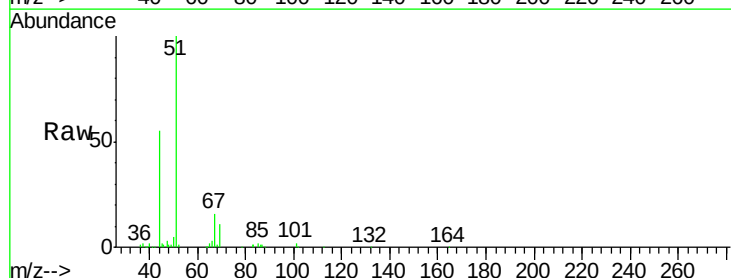
Acq: 7 Dec 2018 23:43

Tgt Ion: 51 Resp: 97213

Ion Ratio Lower Upper

51 100

67 19.5 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

80000

60000

40000

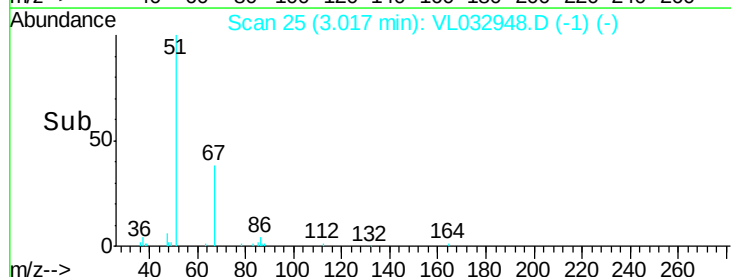
20000

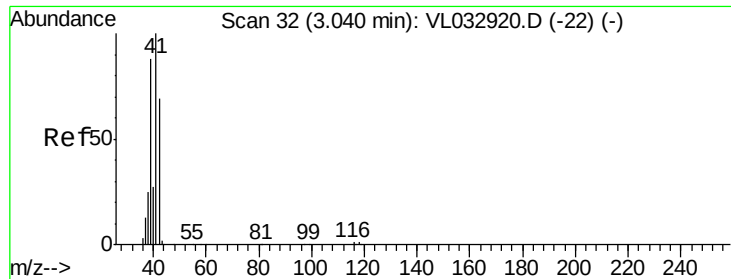
0

3.02

3.00 3.02 3.04

Time-->





#9

Propene

Concen: 0.222 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 41 Resp: 8728

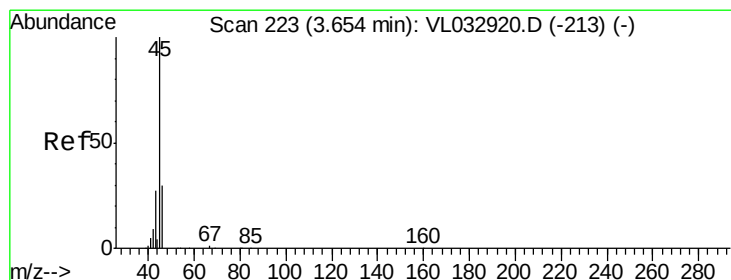
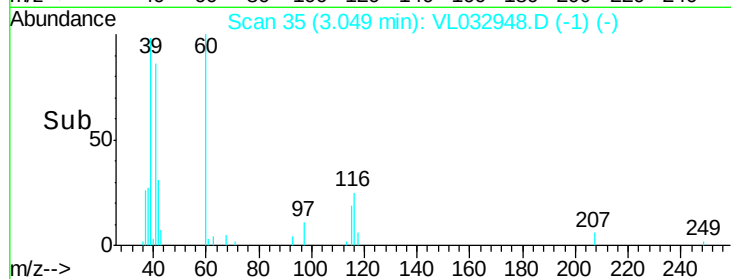
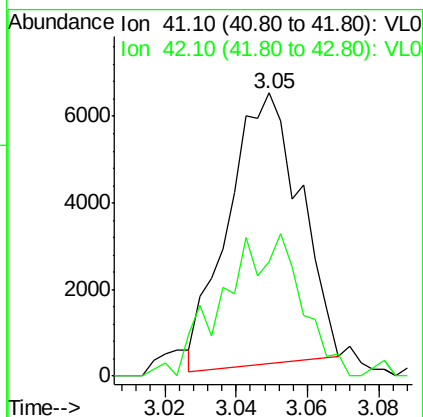
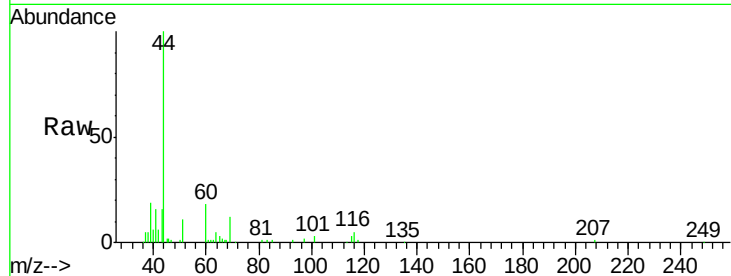
Ion Ratio Lower Upper

41 100

42 58.9 56.2 84.2

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#13

Ethanol

Concen: 4.645 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL032948.D

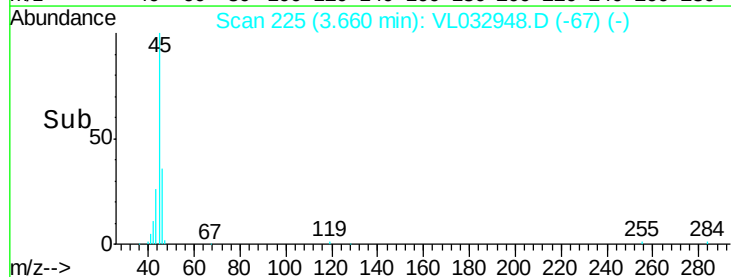
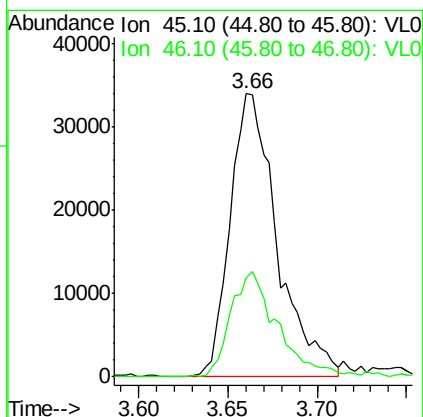
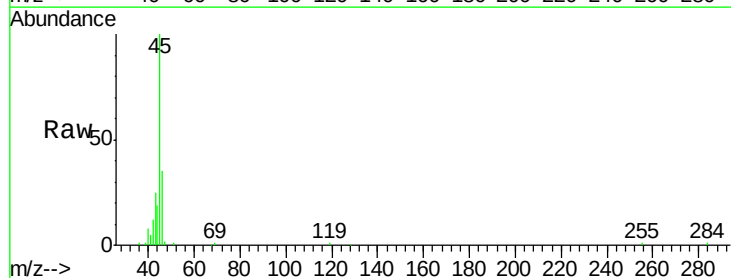
Acq: 7 Dec 2018 23:43

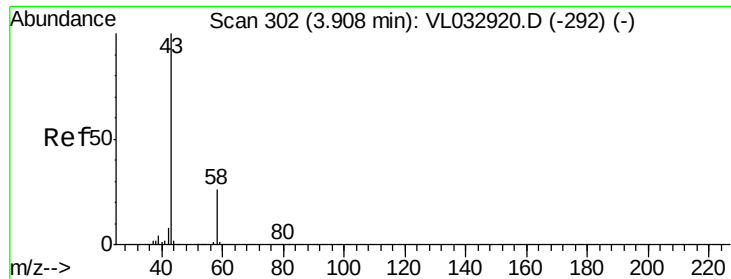
Tgt Ion: 45 Resp: 62840

Ion Ratio Lower Upper

45 100

46 37.7 13.8 55.4





#15

Acetone

Concen: 5.540 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 623900

Ion Ratio Lower Upper

43 100

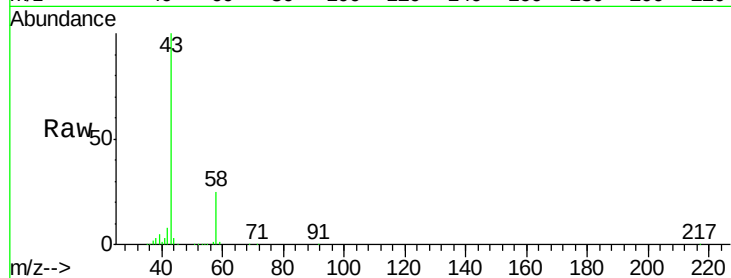
58 26.3 20.6 30.8

Manual Integrations

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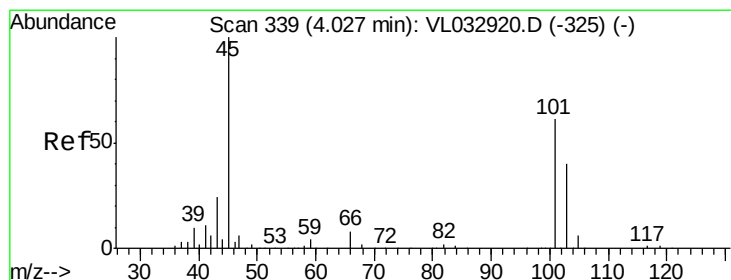
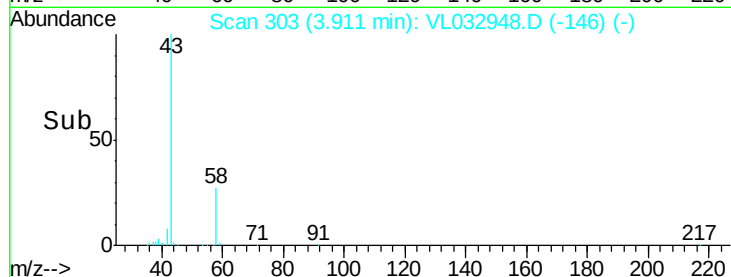
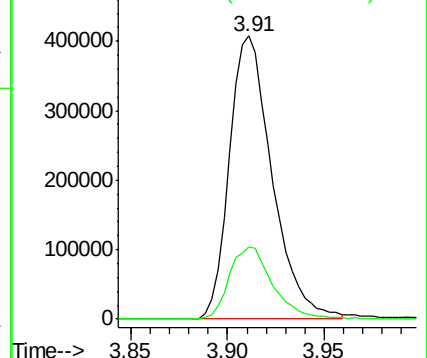
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.477 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032948.D

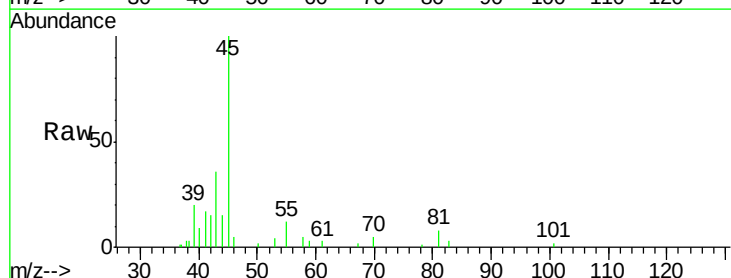
Acq: 7 Dec 2018 23:43

Tgt Ion: 45 Resp: 33751

Ion Ratio Lower Upper

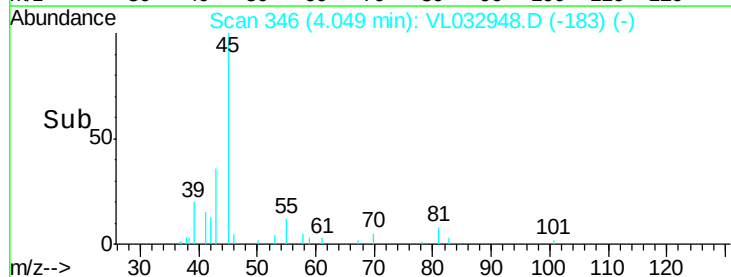
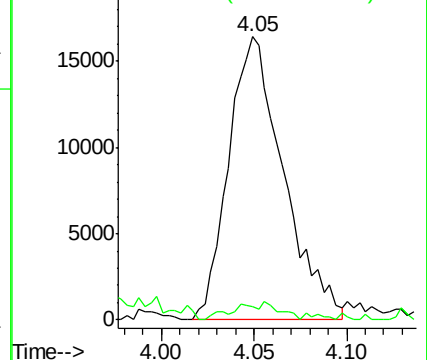
45 100

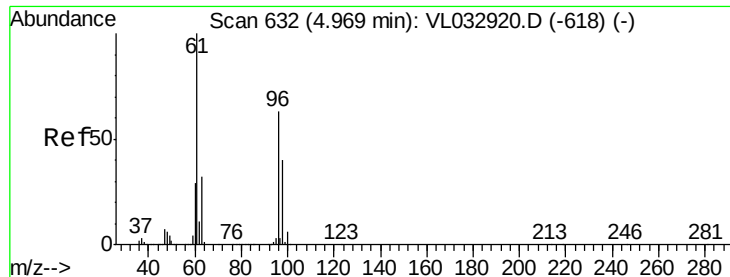
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 1.688 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

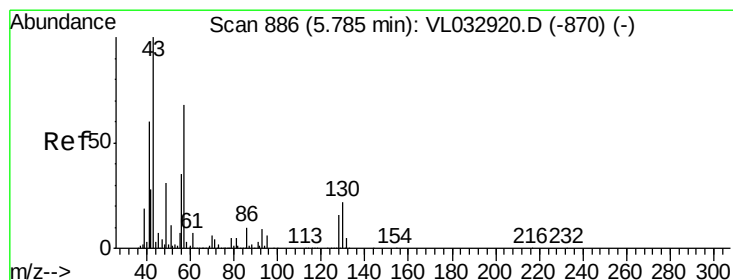
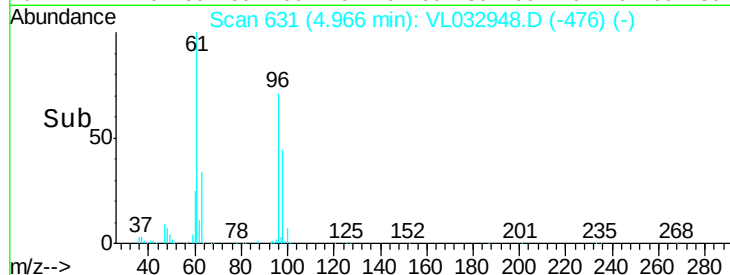
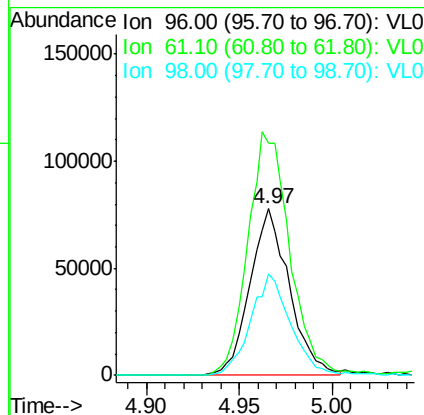
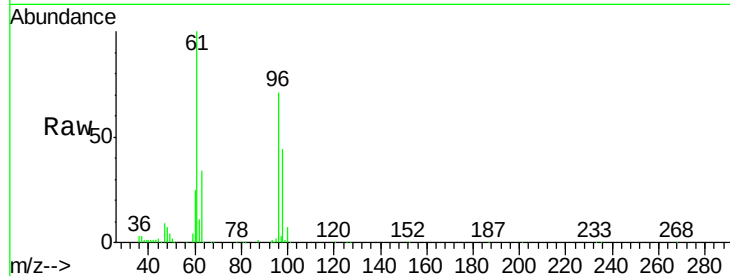
ClientSampleId :

SV1

Tgt Ion:	96	Resp:	115517
Ion Ratio	Lower	Upper	
96	100		
61	139.9	127.1	190.7
98	61.3	51.3	76.9

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#26

Hexane

Concen: 0.750 ppbv

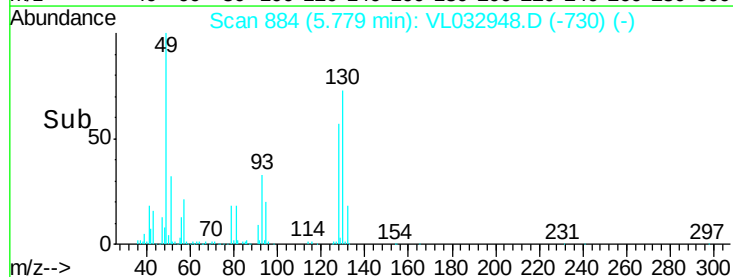
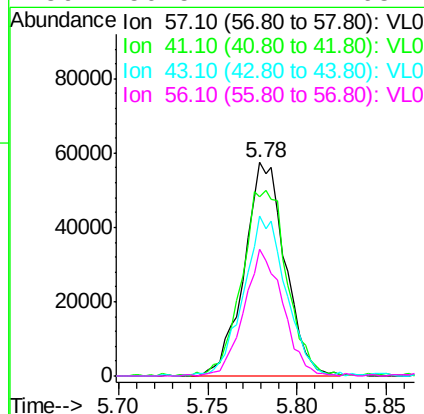
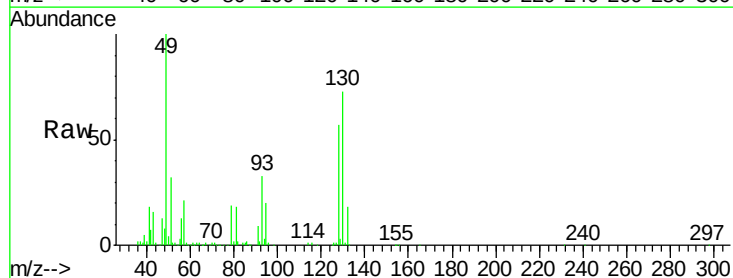
RT: 5.78 min Scan# 884

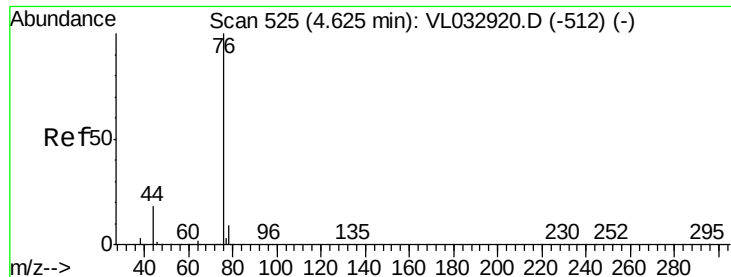
Delta R.T. -0.01 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Tgt Ion:	57	Resp:	92138
Ion Ratio	Lower	Upper	
57	100		
41	97.1	72.2	108.2
43	78.6	171.9	257.9#
56	56.5	42.2	63.2





#27

Carbon Disulfide

Concen: 0.320 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

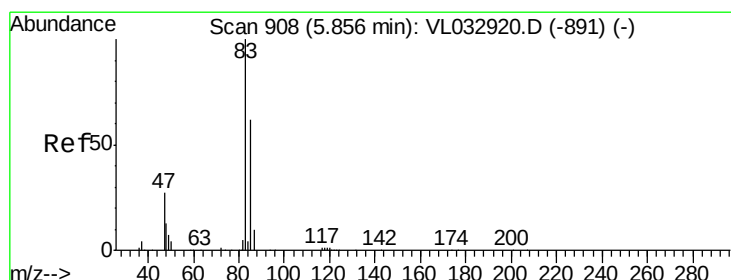
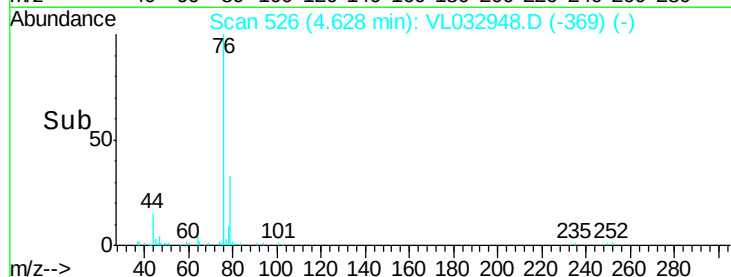
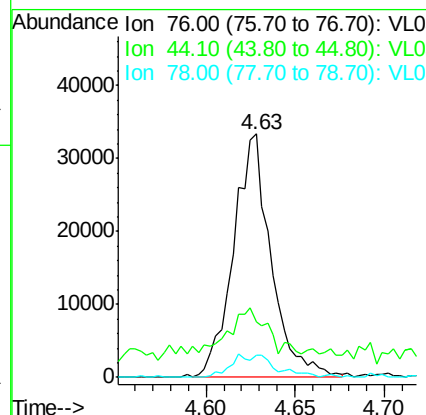
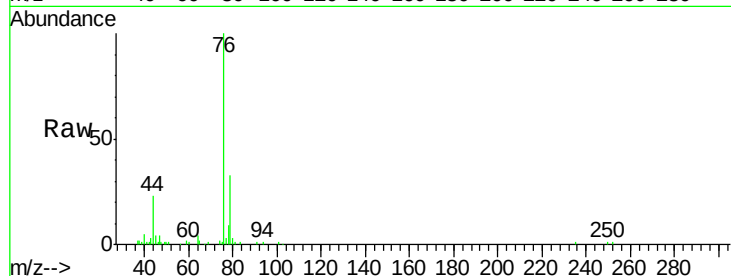
ClientSampled :

SV1

Tgt Ion:	76	Resp:	49094
Ion	Ratio	Lower	Upper
76	100		
44	27.7	14.7	22.1#
78	11.1	7.4	11.2

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#29

Chloroform

Concen: 0.238 ppbv

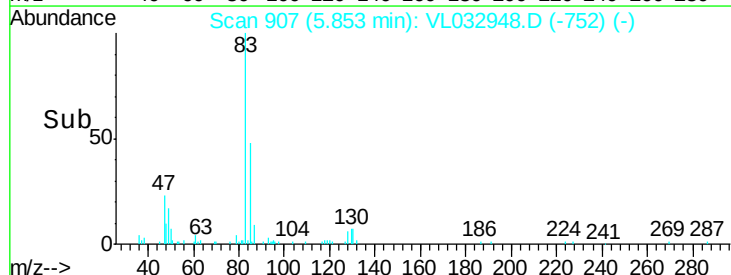
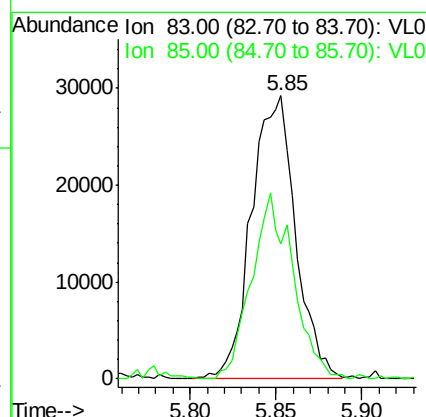
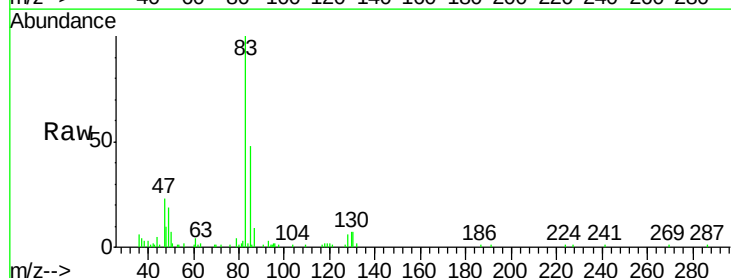
RT: 5.85 min Scan# 907

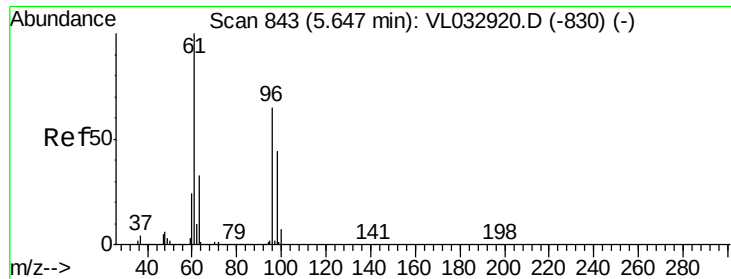
Delta R.T. -0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Tgt Ion:	83	Resp:	52059
Ion	Ratio	Lower	Upper
83	100		
85	46.8	49.8	74.8#





#31

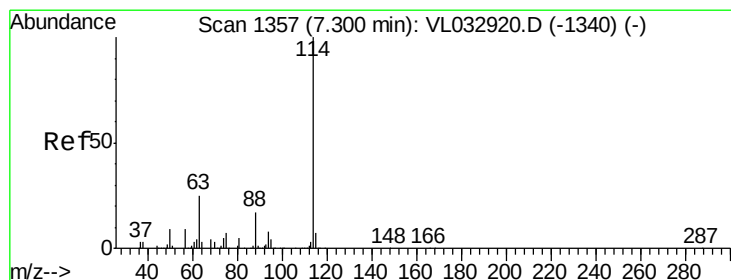
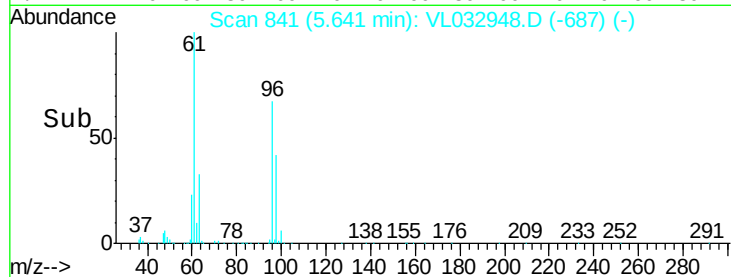
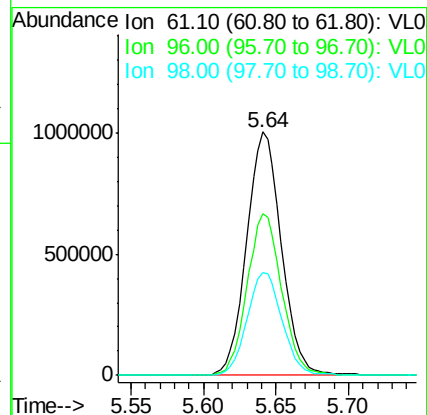
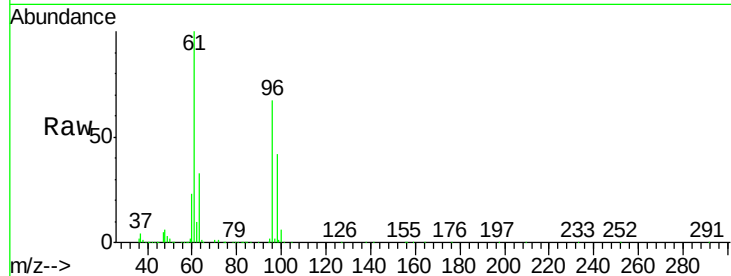
cis-1,2-Dichloroethene
Concen: 14.876 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.01 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion: 61 Resp: 1676563
Ion Ratio Lower Upper
61 100
96 66.5 51.9 77.9
98 42.4 35.0 52.4

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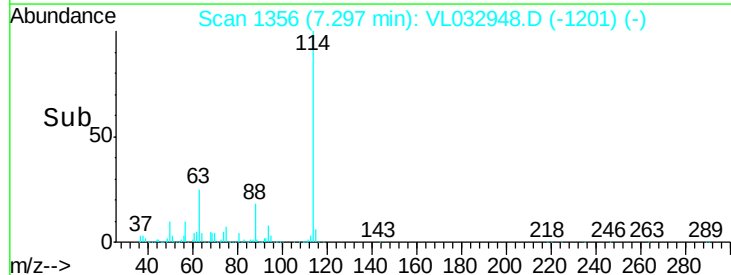
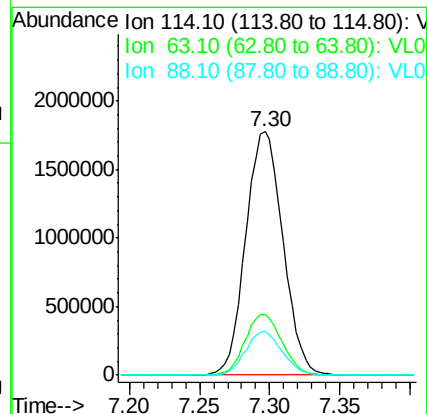
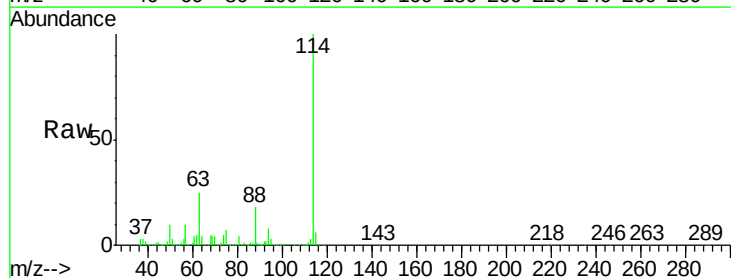
MMDadoda
12/11/2018 10:09:43 AM

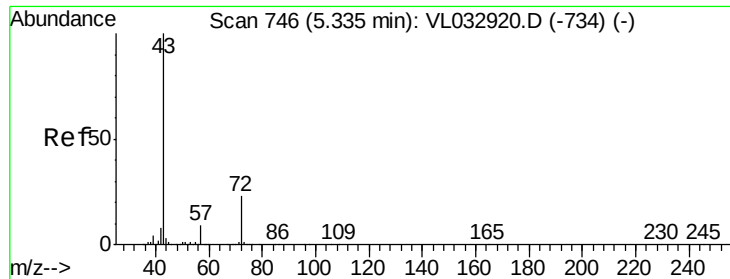


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Tgt Ion: 114 Resp: 3285910
Ion Ratio Lower Upper
114 100
63 25.0 20.1 30.1
88 17.7 14.2 21.4





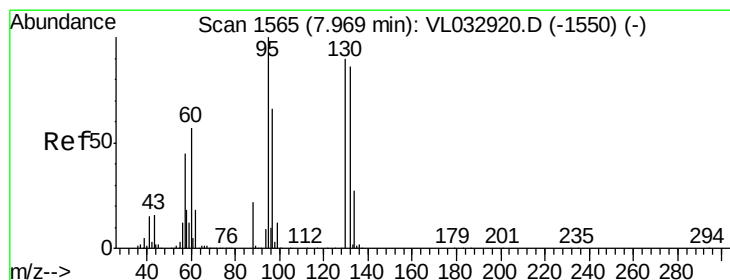
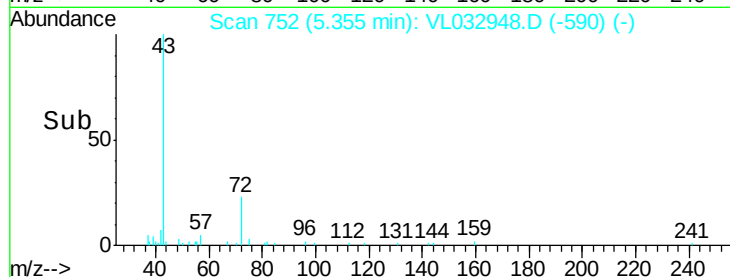
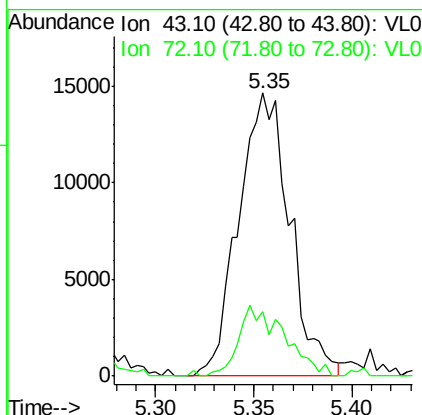
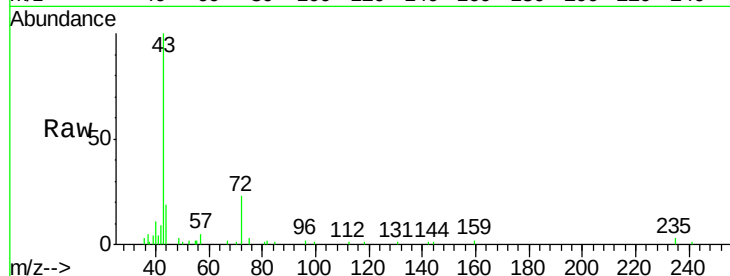
#34
2-Butanone
Concen: 0.185 ppbv m
RT: 5.35 min Scan# 752
Delta R.T. 0.02 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion: 43 Resp: 26458
Ion Ratio Lower Upper
43 100
72 22.4 18.8 28.2

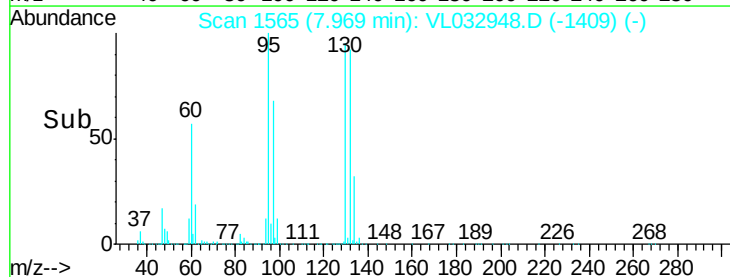
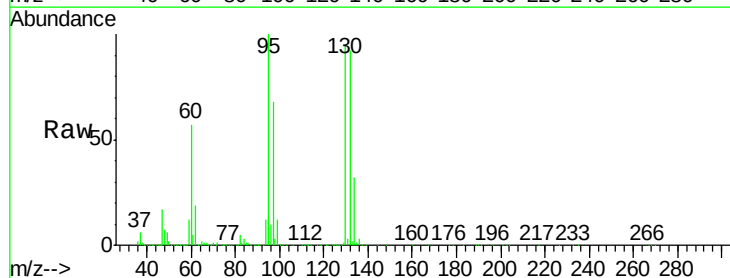
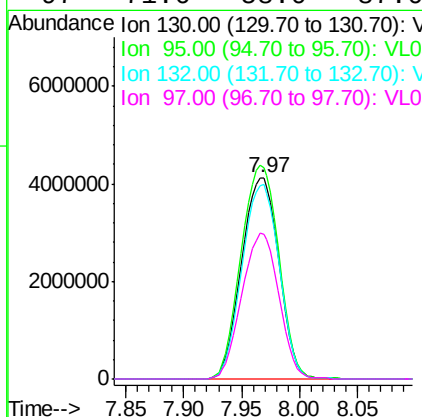
Manual Integrations
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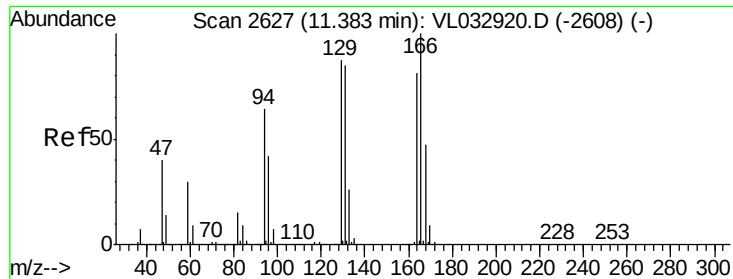
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12/11/2018 10:09:43 AM



#38
Trichloroethene
Concen: 91.891 ppbv
RT: 7.97 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Tgt Ion: 130 Resp: 9242539
Ion Ratio Lower Upper
130 100
95 105.0 88.6 132.8
132 96.6 76.1 114.1
97 71.6 58.0 87.0





#52

Tetrachloroethene

Concen: 819.332 ppbv m

RT: 11.44 min Scan# 2646

Delta R.T. 0.06 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp:72030449

Ion Ratio Lower Upper

164 100

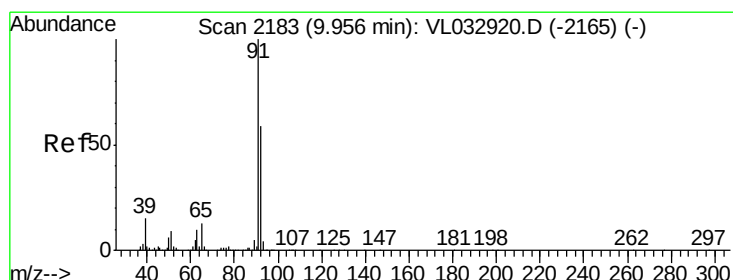
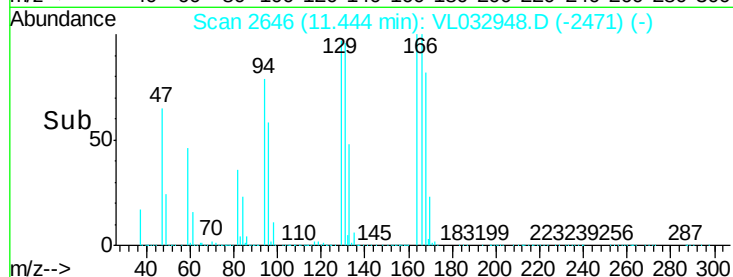
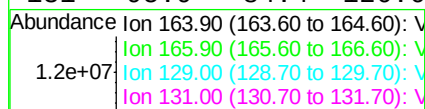
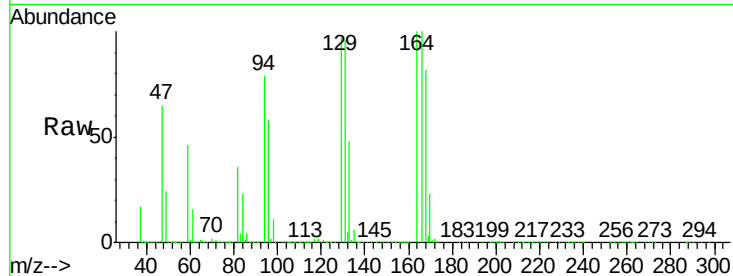
166 100.0 98.8 148.2

129 97.5 85.5 128.3

131 95.9 84.4 126.6

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#53

Toluene

Concen: 0.446 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032948.D

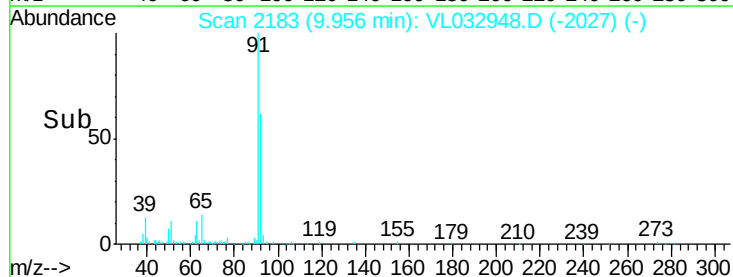
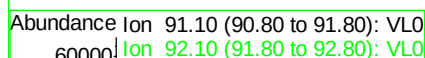
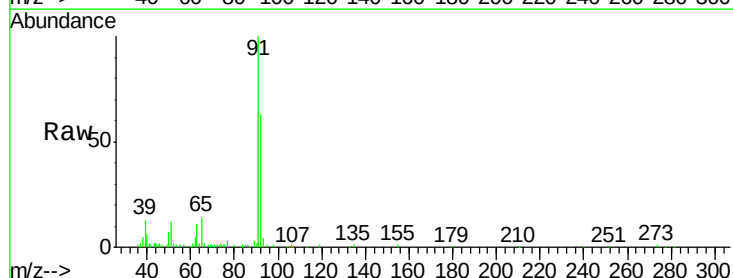
Acq: 7 Dec 2018 23:43

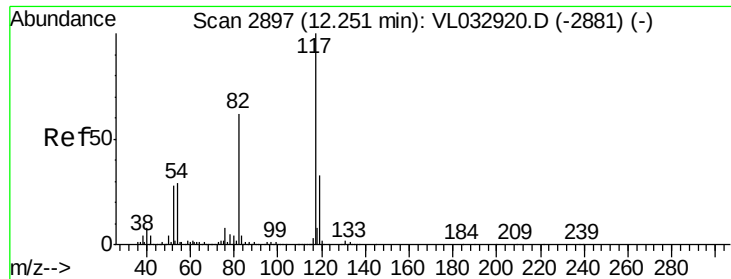
Tgt Ion: 91 Resp: 114267

Ion Ratio Lower Upper

91 100

92 55.3 47.4 71.0





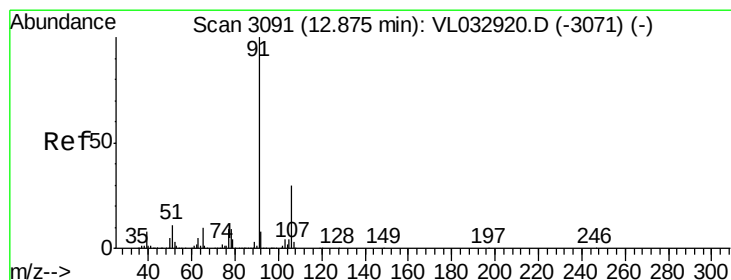
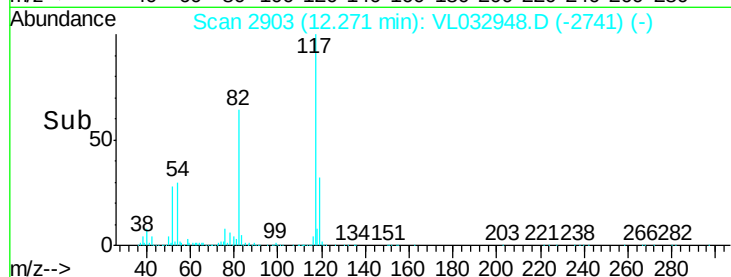
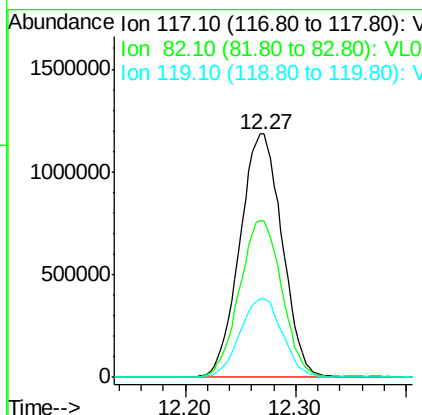
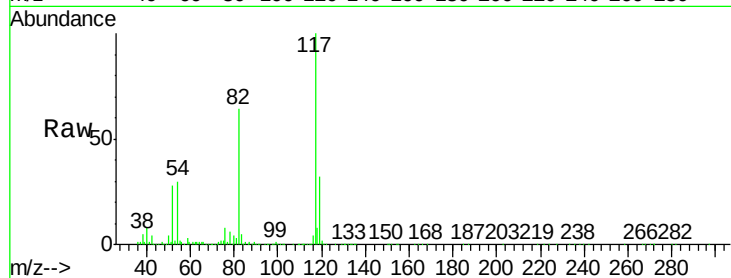
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. 0.02 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion: 117 Resp: 3148398
Ion Ratio Lower Upper
117 100
82 64.8 47.8 71.8
119 32.6 43.1 64.7#

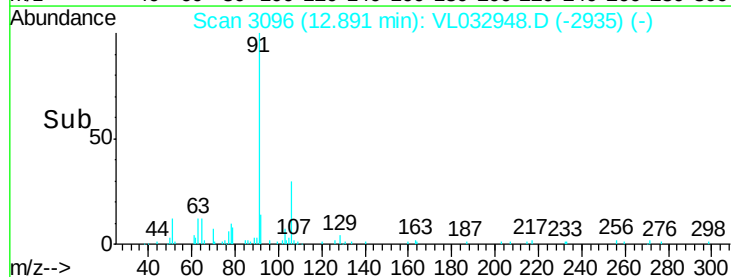
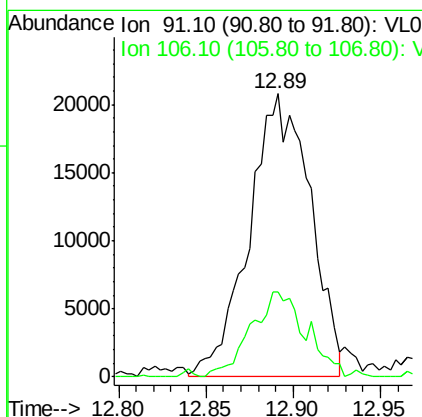
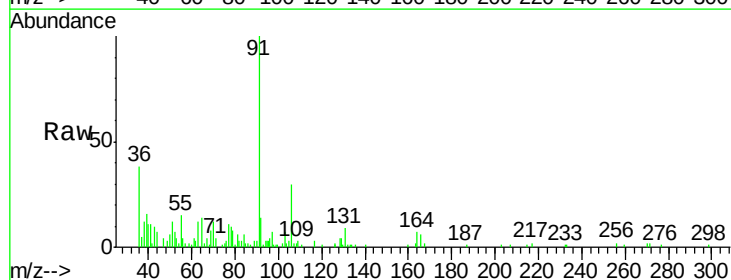
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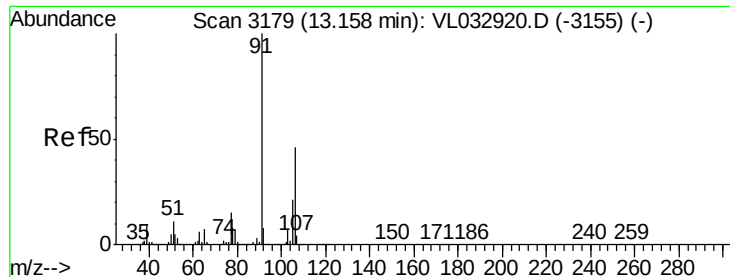
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#58
Ethyl Benzene
Concen: 0.151 ppbv m
RT: 12.89 min Scan# 3096
Delta R.T. 0.02 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Tgt Ion: 91 Resp: 50662
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9





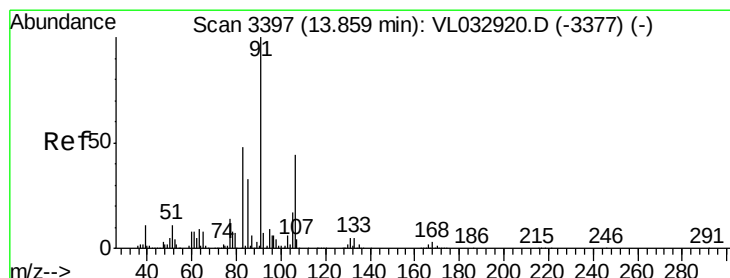
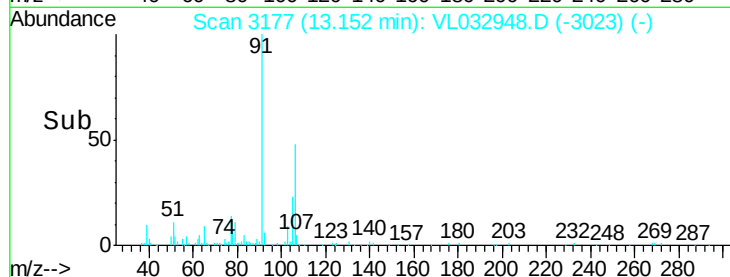
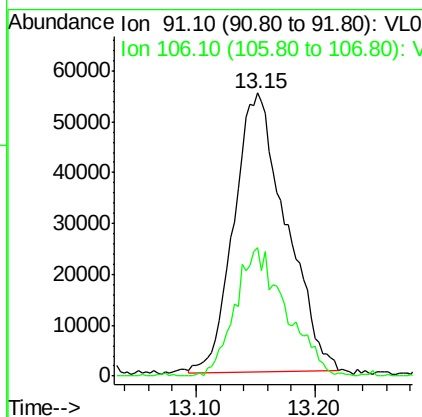
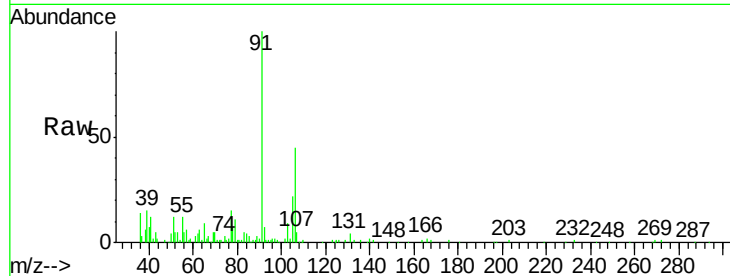
#59
m/p-Xylene
Concen: 0.544 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. -0.01 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 165736
Ion Ratio Lower Upper
91 100
106 44.8 0.0 0.0#

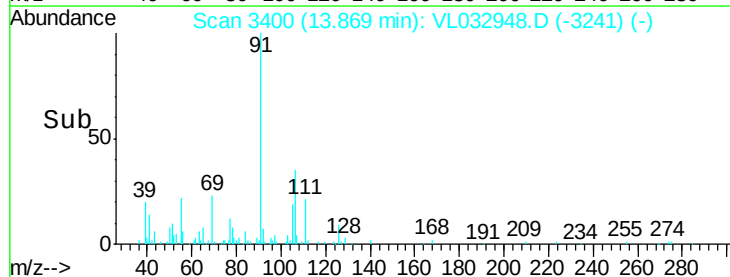
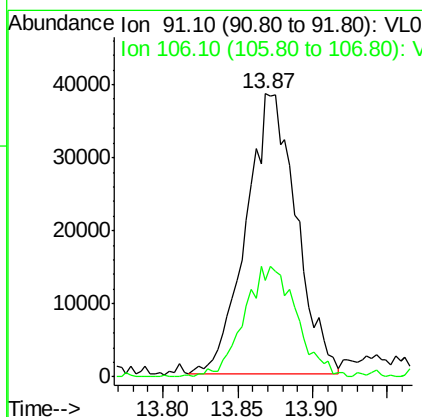
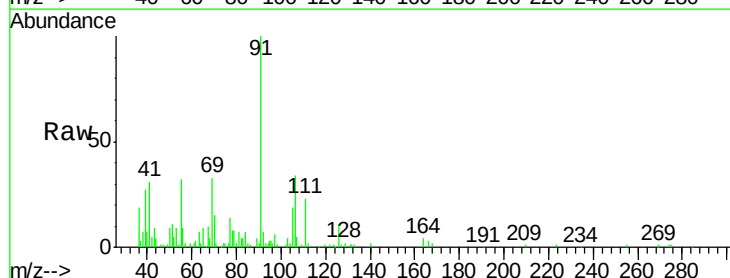
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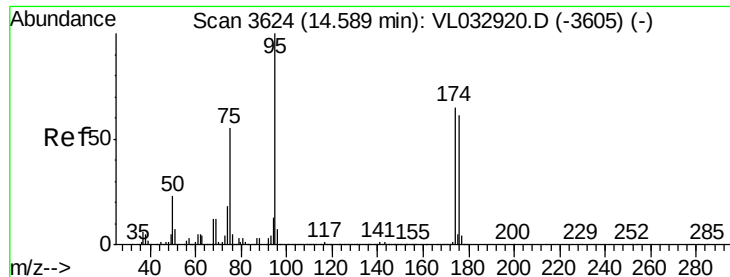
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#60
o-Xylene
Concen: 0.292 ppbv
RT: 13.87 min Scan# 3400
Delta R.T. 0.01 min
Lab File: VL032948.D
Acq: 7 Dec 2018 23:43

Tgt Ion: 91 Resp: 89822
Ion Ratio Lower Upper
91 100
106 41.6 21.9 65.8





#68

1-Bromo-4-Fluorobenzene

Concen: 11.258 ppbv

RT: 14.60 min Scan# 3626

Delta R.T. 0.01 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 95 Resp: 2618649

Ion Ratio Lower Upper

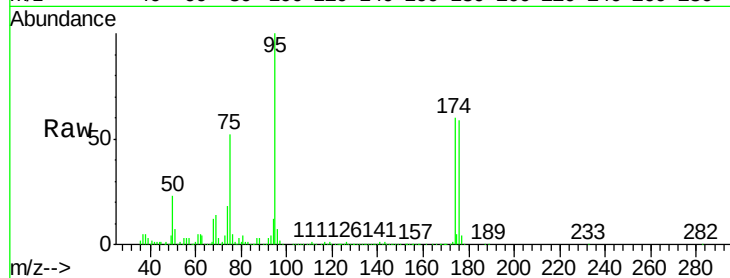
95 100

174 63.5 51.4 77.0

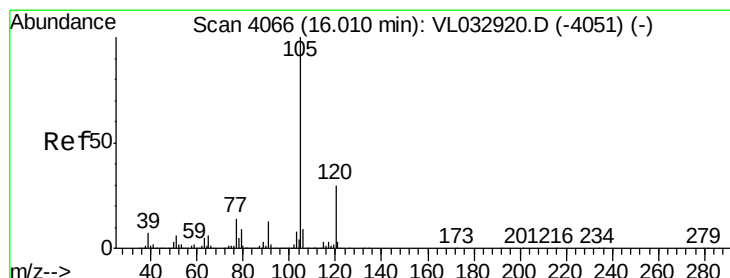
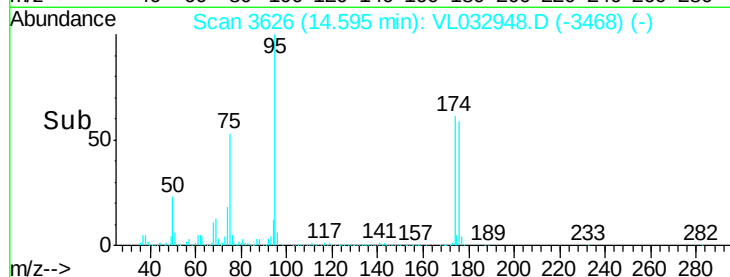
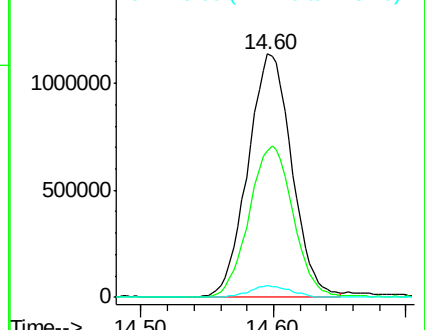
175 4.7 3.8 5.6

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Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.141 ppbv m

RT: 16.02 min Scan# 4069

Delta R.T. 0.01 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Tgt Ion: 105 Resp: 48340

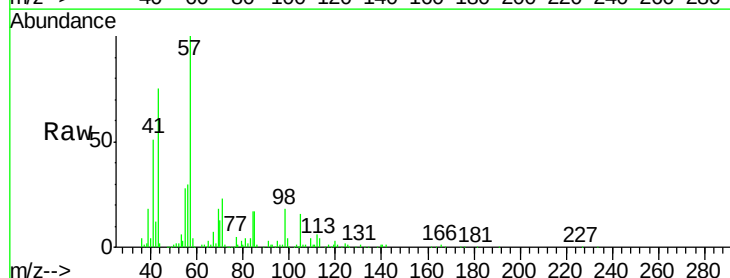
Ion Ratio Lower Upper

105 100

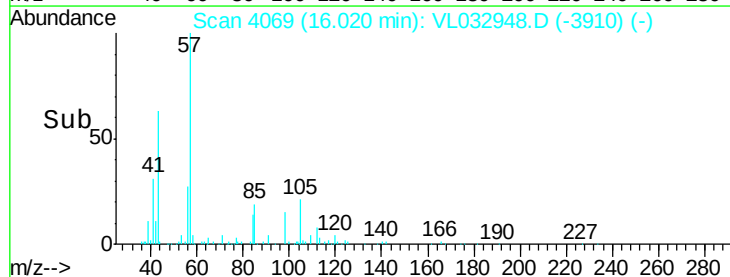
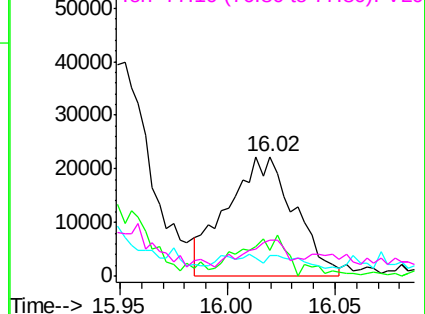
120 30.9 23.0 34.4

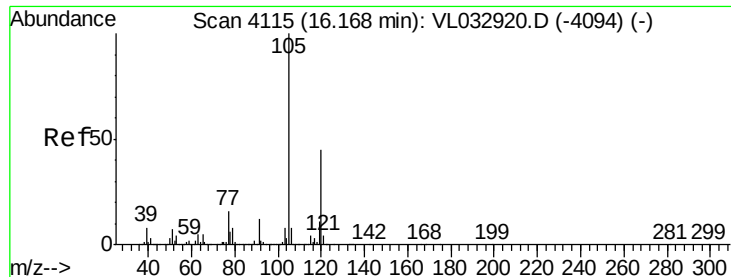
91 4.4 10.4 15.6#

77 30.8 11.0 16.4#



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





#73

1,3,5-Trimethylbenzene

Concen: 0.136 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 45725

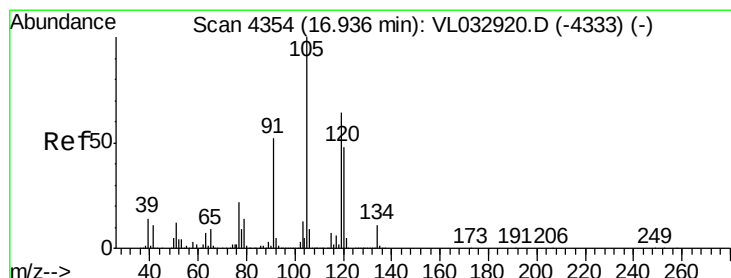
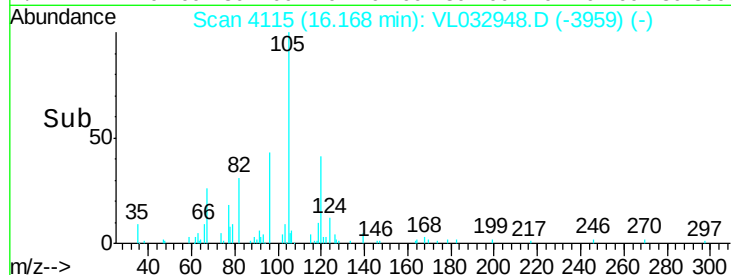
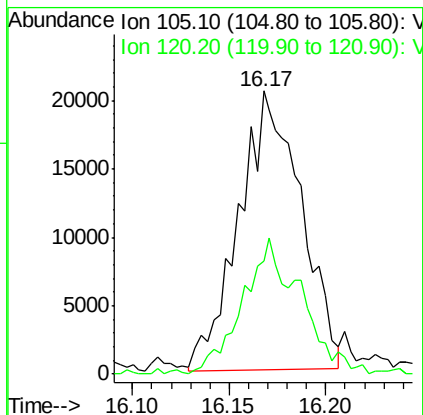
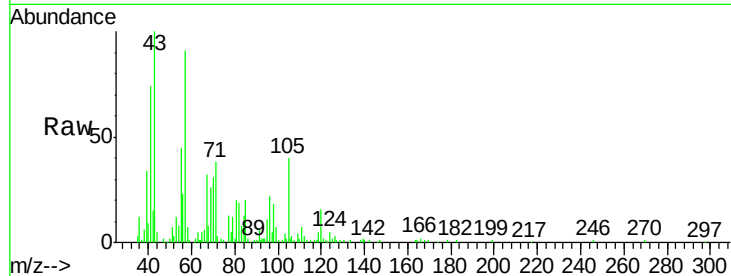
Ion Ratio Lower Upper

105 100

120 39.2 36.0 54.0

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.380 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL032948.D

Acq: 7 Dec 2018 23:43

Tgt Ion:105 Resp: 143726

Ion Ratio Lower Upper

105 100

120 41.9 38.6 58.0

91 16.3 41.7 62.5#

77 15.9 17.4 26.2#

