

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032157.D
 Acq On : 30 Jun 2018 5:56
 Operator : SY/AP
 Sample : J3601-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-1DUP

Manual Integrations
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MMDadoda
 7/2/2018 4:25:28 PM

Quant Time: Jul 02 12:08:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1598800	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3698743	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3364815	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2504404	9.74	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	63344	0.30	ppbv	90
3) Chlorodifluoromethane	3.07	51	91079	0.47	ppbv	97
4) Chloromethane	3.23	50	54058	0.52	ppbv	99
9) Propene	3.11	41	25072	0.28	ppbv	88
10) Heptane	8.34	43	57695m	0.22	ppbv	
11) Trichlorofluoromethane	4.07	101	56583	0.25	ppbv	97
13) Ethanol	3.74	45	136471m	4.94	ppbv	
15) Acetone	3.97	43	786799	4.21	ppbv	99
19) Isopropyl Alcohol	4.13	45	52578m	0.34	ppbv	
20) Methylene Chloride	4.48	84	395172	5.78	ppbv	98
26) Hexane	5.86	57	552227	3.10	ppbv #	49
30) Cyclohexane	7.33	84	21290m	0.13	ppbv	
34) 2-Butanone	5.41	43	148349	0.63	ppbv	96
35) Carbon Tetrachloride	7.22	117	21854m	0.09	ppbv	
36) Benzene	7.10	78	45983	0.13	ppbv	96
44) 2,2,4-Trimethylpentane	8.09	57	96950	0.15	ppbv #	82
50) 4-Methyl-2-Pentanone	8.99	43	54867m	0.14	ppbv	
52) Tetrachloroethene	11.48	164	12110m	0.09	ppbv	
53) Toluene	10.04	91	731807	1.69	ppbv	99
58) Ethyl Benzene	12.96	91	164882	0.30	ppbv	90
59) m/p-Xylene	13.22	91	309190m	0.71	ppbv	
60) o-Xylene	13.95	91	135237	0.31	ppbv	98
73) 1,3,5-Trimethylbenzene	16.26	105	55727	0.11	ppbv	95
74) 1,2,4-Trimethylbenzene	17.03	105	141284	0.27	ppbv #	76

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

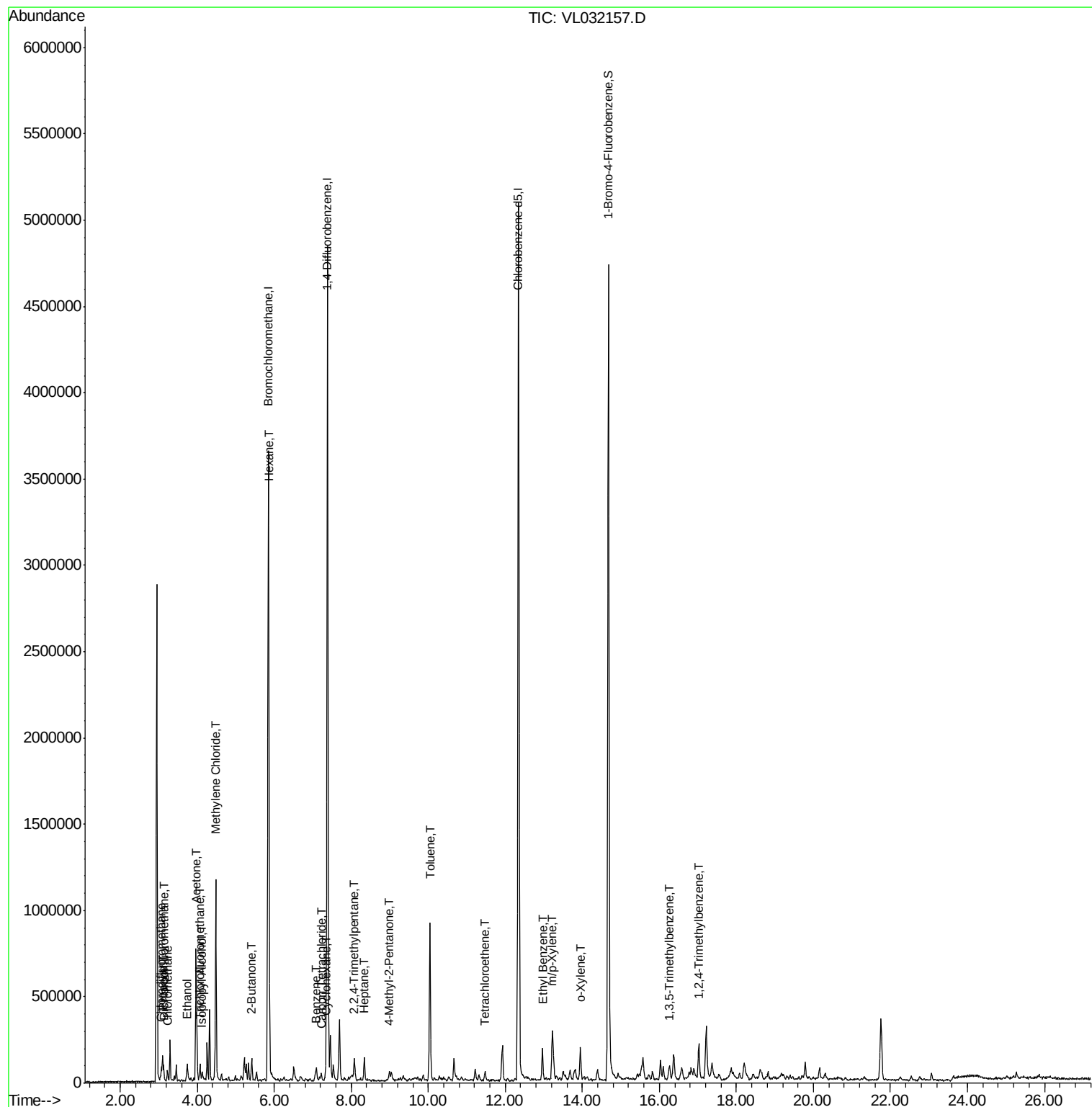
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
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ALS Vial : 1 Sample Multiplier: 1

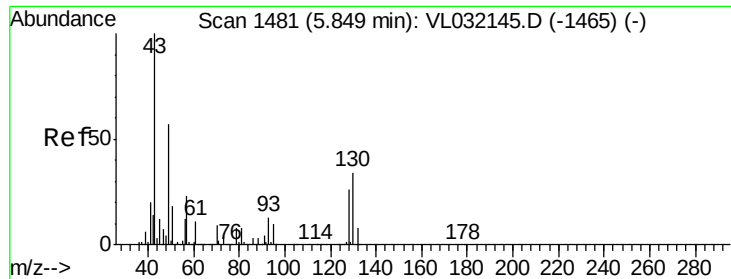
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Manual Integrations
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Quant Time: Jul 02 12:08:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion: 49 Resp: 1598800

Ion Ratio Lower Upper

49 100

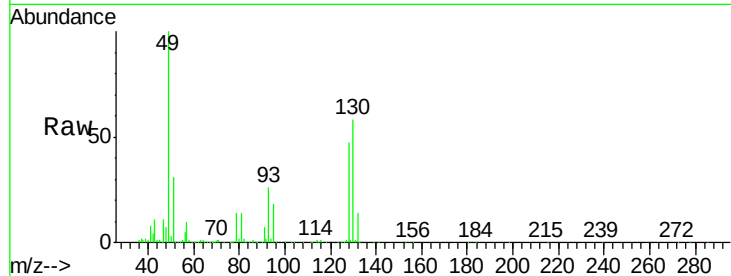
128 44.8 23.4 70.0

130 57.0 30.3 90.9

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.85

800000

600000

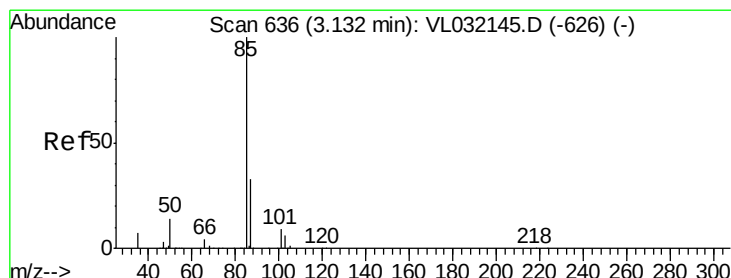
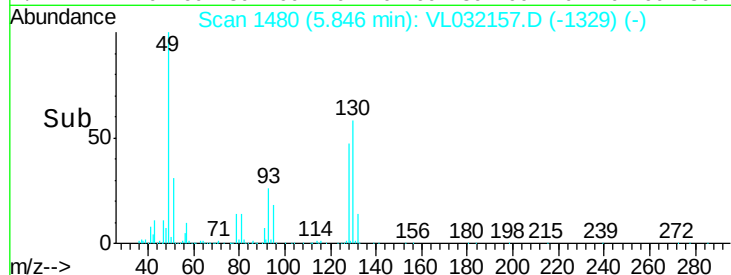
400000

200000

0

5.75 5.80 5.85 5.90 5.95

Time-->



#2

Dichlorodifluoromethane

Concen: 0.30 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032157.D

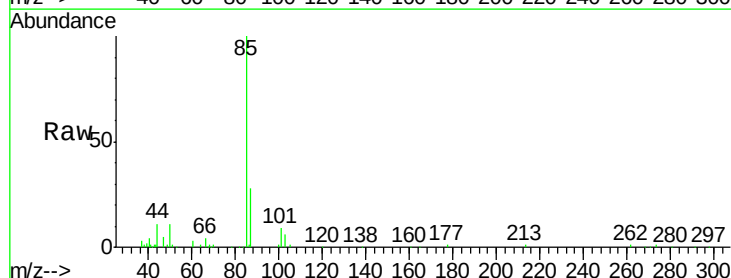
Acq: 30 Jun 2018 5:56

Tgt Ion: 85 Resp: 63344

Ion Ratio Lower Upper

85 100

87 27.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

60000

50000

40000

30000

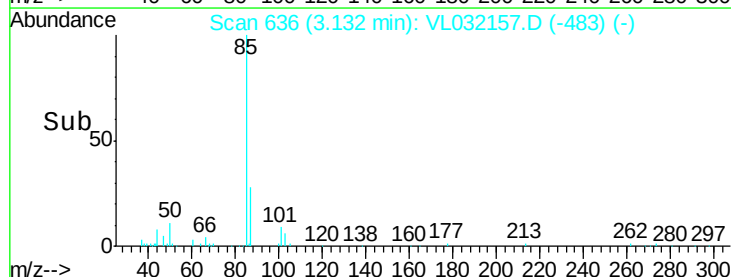
20000

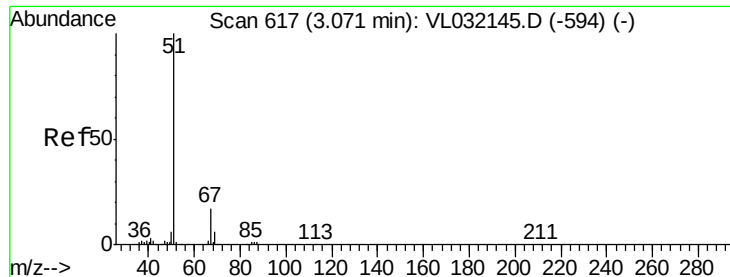
10000

0

3.10 3.15

Time-->





#3

Chlorodifluoromethane

Concen: 0.47 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion: 51 Resp: 91079

Ion Ratio Lower Upper

51 100

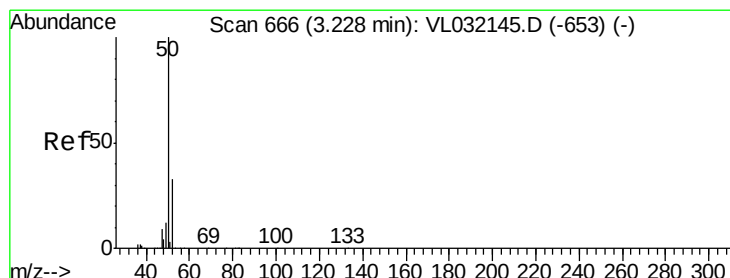
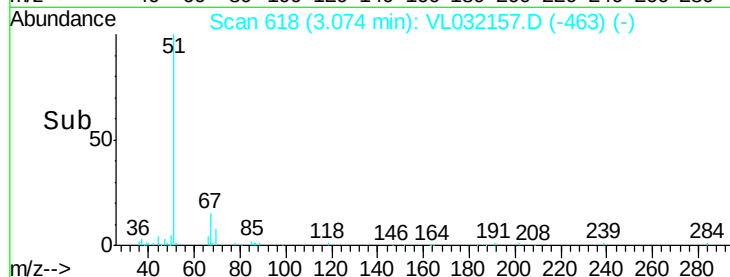
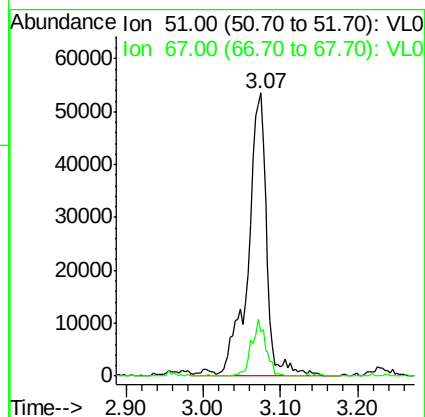
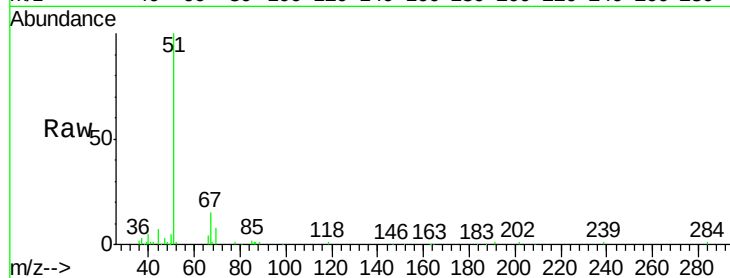
67 15.3 13.2 19.8

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#4

Chloromethane

Concen: 0.52 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032157.D

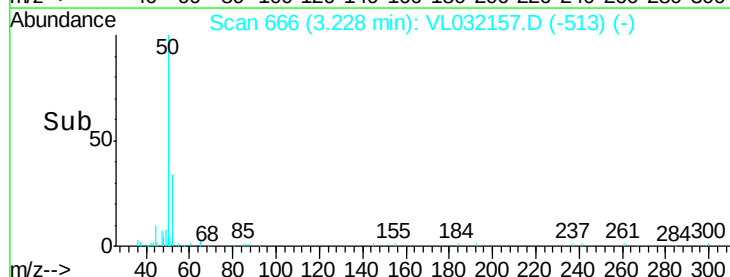
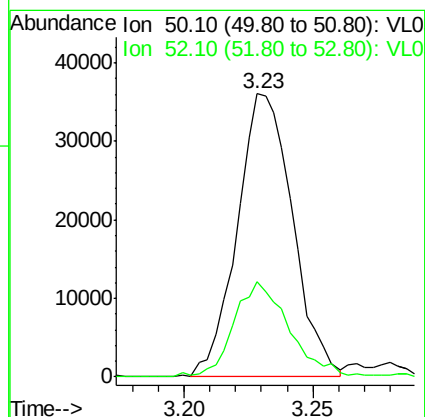
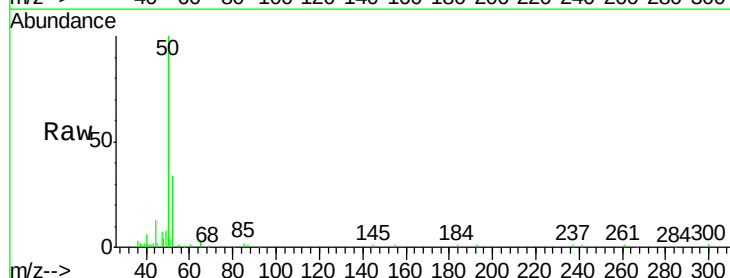
Acq: 30 Jun 2018 5:56

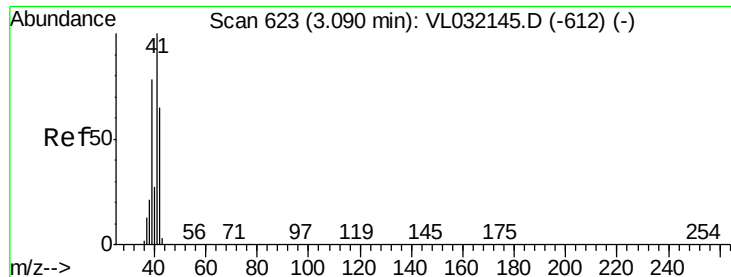
Tgt Ion: 50 Resp: 54058

Ion Ratio Lower Upper

50 100

52 32.9 26.0 39.0





#9

Propene

Concen: 0.28 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.01 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion: 41 Resp: 25072

Ion Ratio Lower Upper

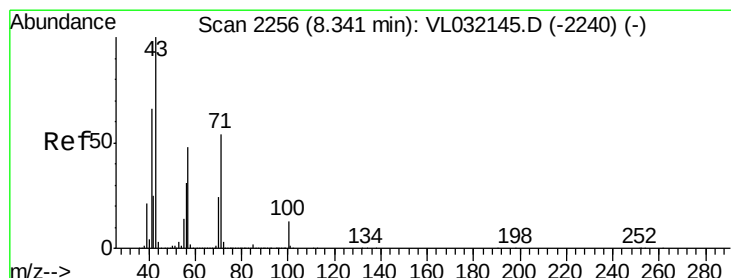
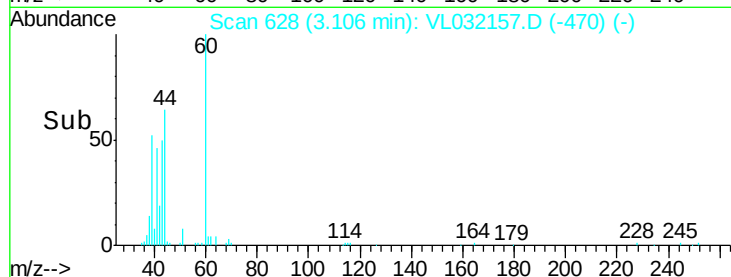
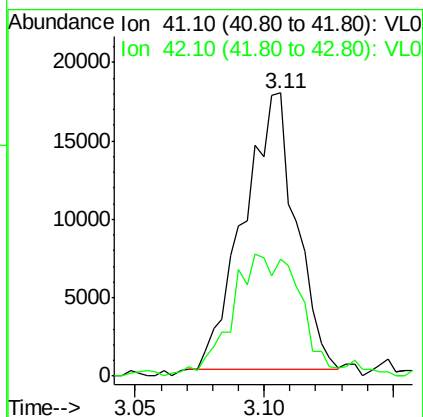
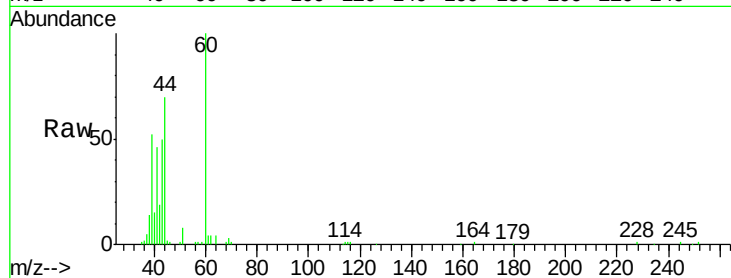
41 100

42 60.3 56.2 84.4

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#10

Heptane

Concen: 0.22 ppbv m

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032157.D

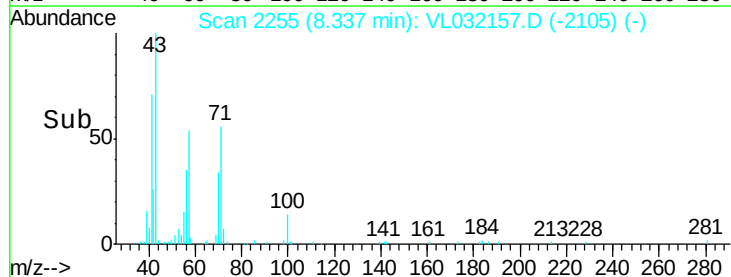
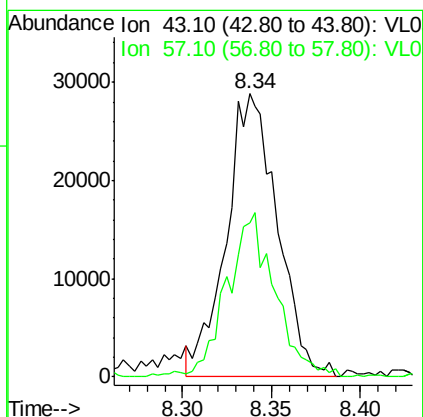
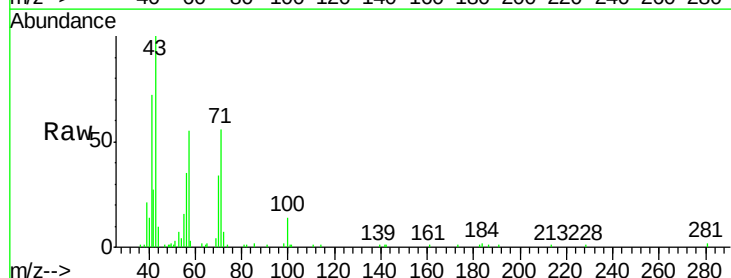
Acq: 30 Jun 2018 5:56

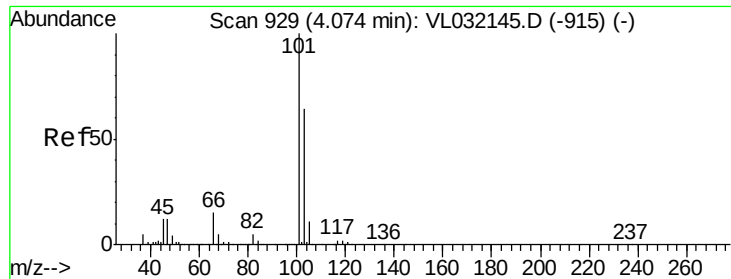
Tgt Ion: 43 Resp: 57695

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#





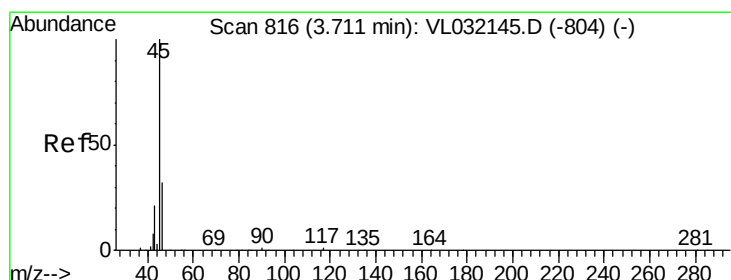
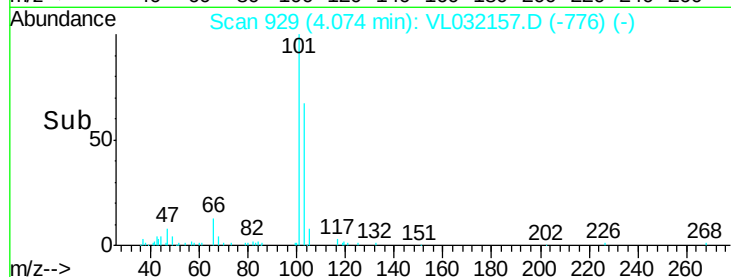
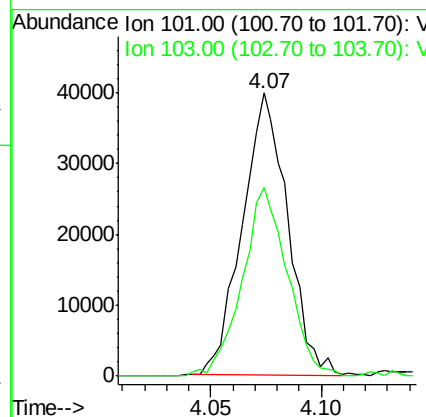
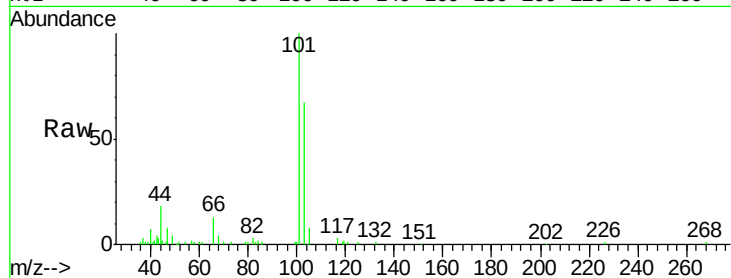
#11
 Trichlorofluoromethane
 Concen: 0.25 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032157.D
 Acq: 30 Jun 2018 5:56

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-1DUP

Tot Ion	Ratio	Resp	Lower	Upper
101	100	56583		
103	66.9	51.4	77.0	

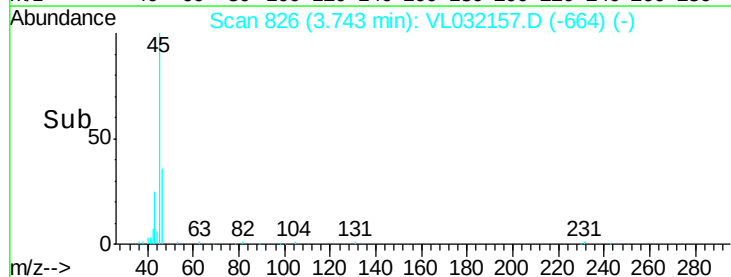
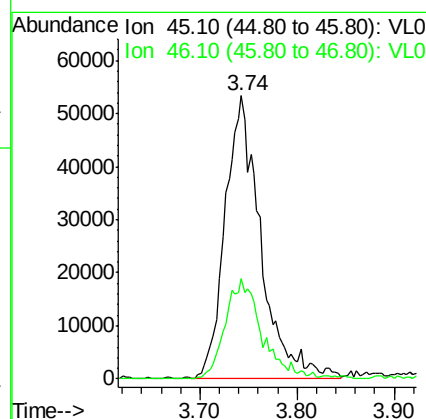
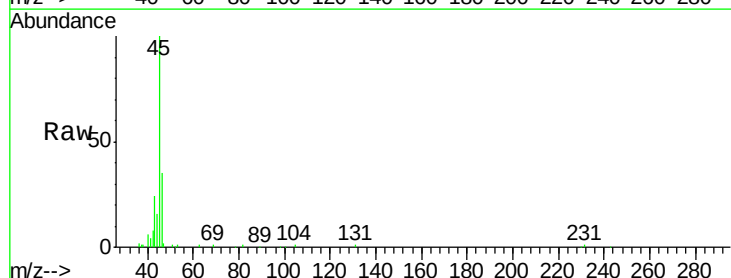
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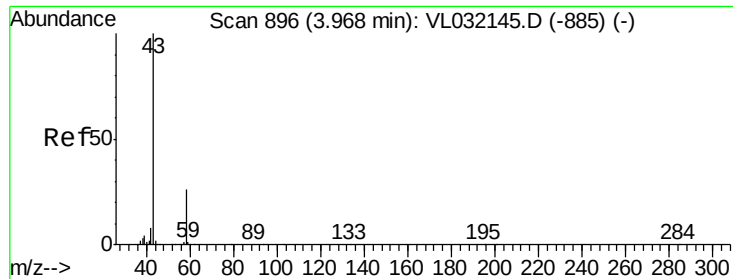
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#13
 Ethanol
 Concen: 4.94 ppbv m
 RT: 3.74 min Scan# 826
 Delta R.T. 0.02 min
 Lab File: VL032157.D
 Acq: 30 Jun 2018 5:56

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	136471		
46	36.8	14.6	58.4	





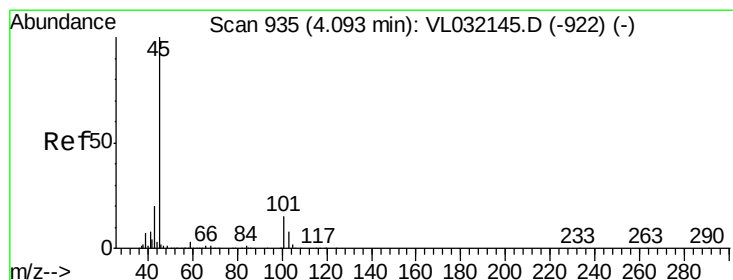
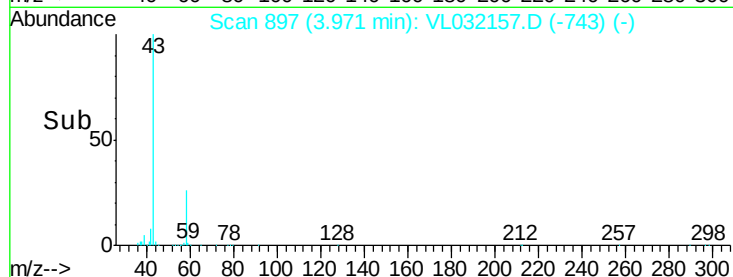
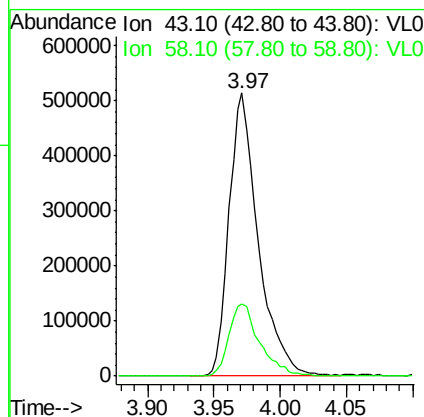
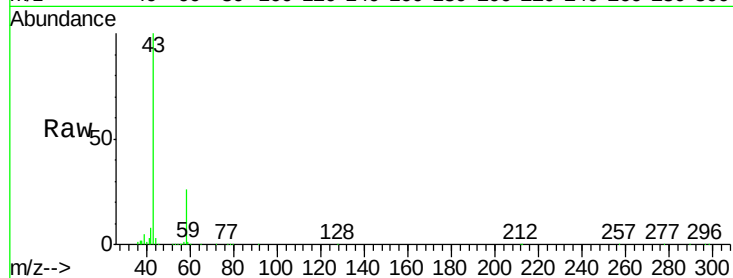
#15
Acetone
Concen: 4.21 ppbv
RT: 3.97 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	43	Resp	786799
Ion Ratio	100	Lower	Upper
43	100		
58	27.2	21.4	32.0

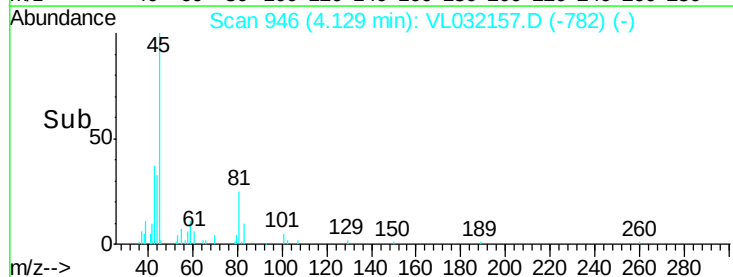
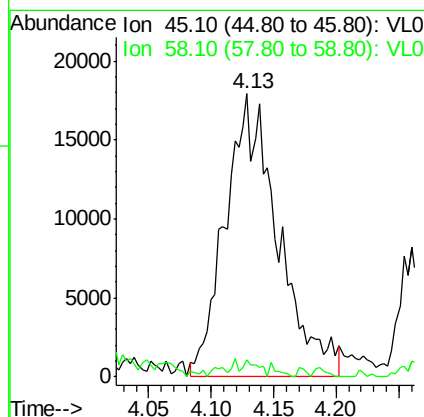
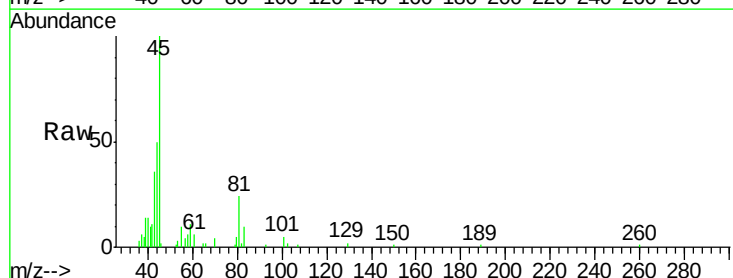
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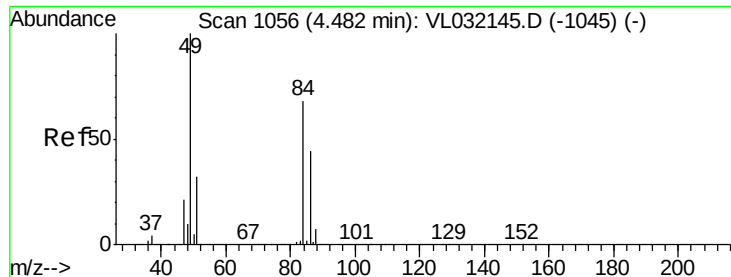
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#19
Isopropyl Alcohol
Concen: 0.34 ppbv m
RT: 4.13 min Scan# 946
Delta R.T. 0.03 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	45	Resp	52578
Ion Ratio	100	Lower	Upper
45	100		
58	0.0	29.4	44.0#





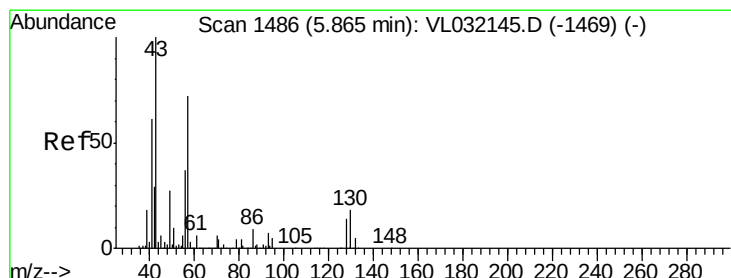
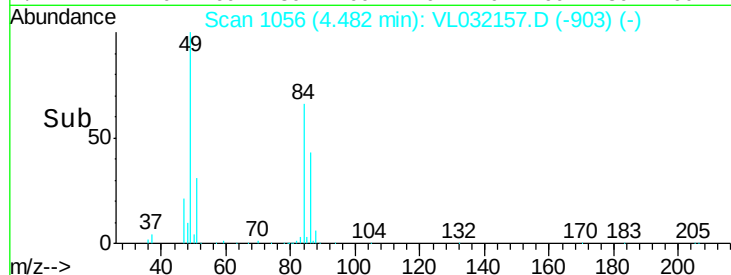
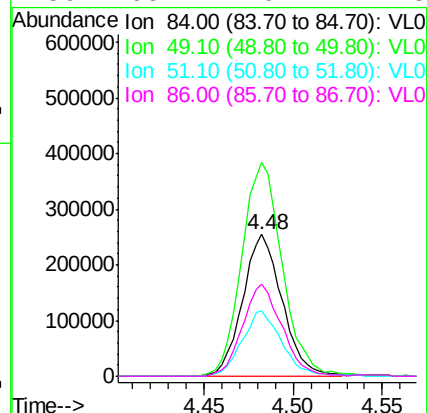
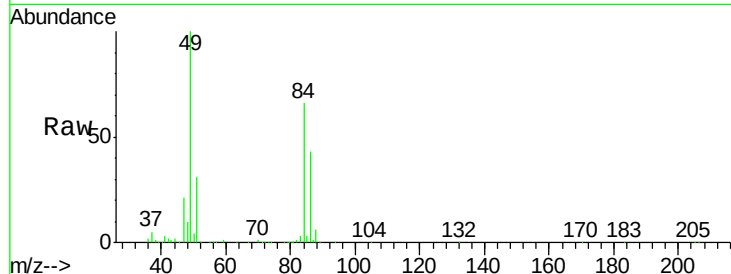
#20
Methvlene Chloride
Concen: 5.78 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
49	150.6	119.6	179.4
51	46.4	36.3	54.5
86	65.4	49.7	74.5

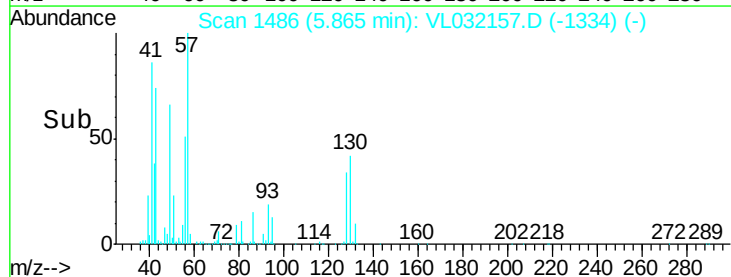
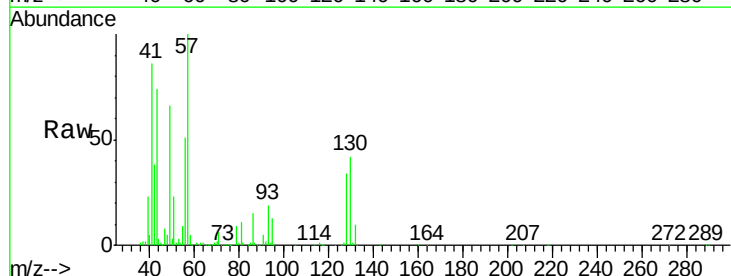
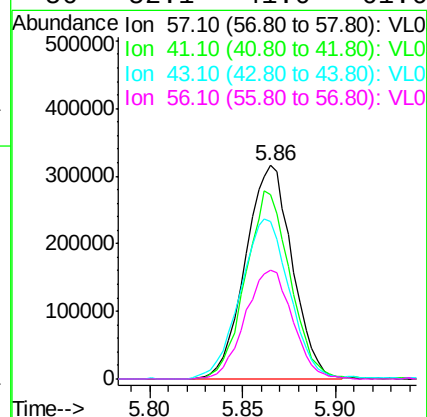
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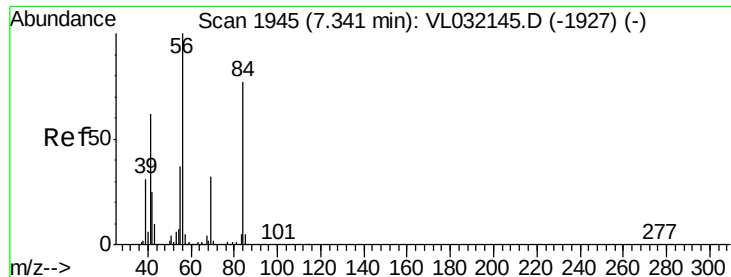
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#26
Hexane
Concen: 3.10 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	84.7	68.6	103.0
43	79.6	168.6	252.8#
56	52.1	41.0	61.6





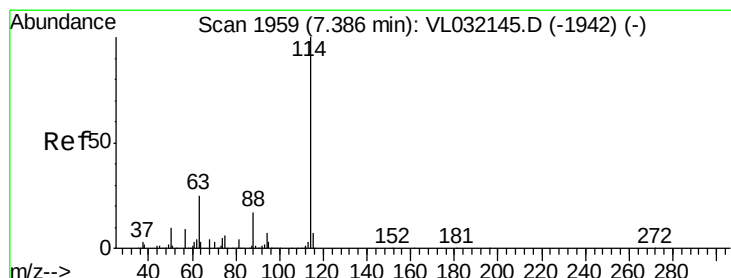
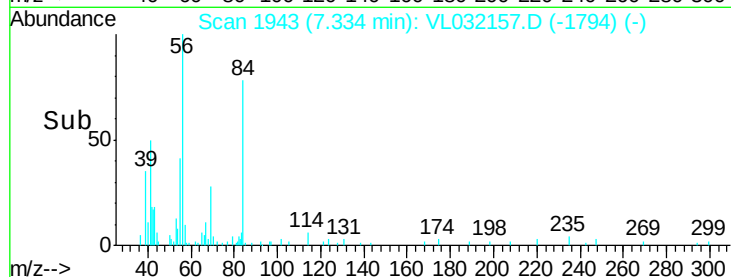
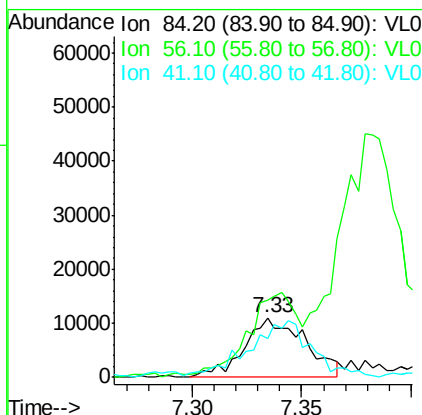
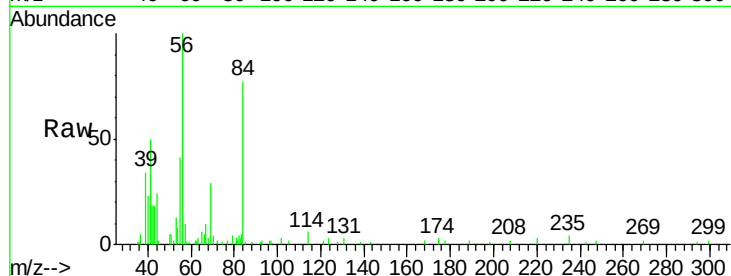
#30
Cyclohexane
Concen: 0.13 ppbv m
RT: 7.33 min Scan# 1943
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.1	163.7#
41	0.0	64.6	96.8#

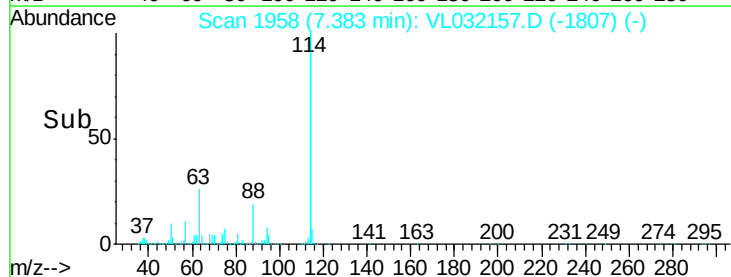
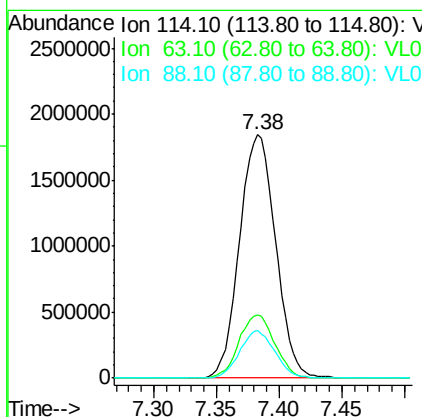
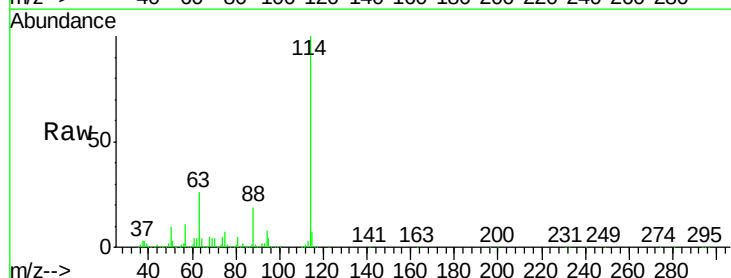
Manual Integrations
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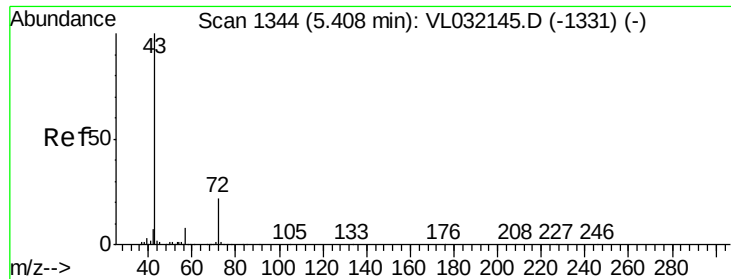
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	19.1	28.7
88	18.9	13.9	20.9





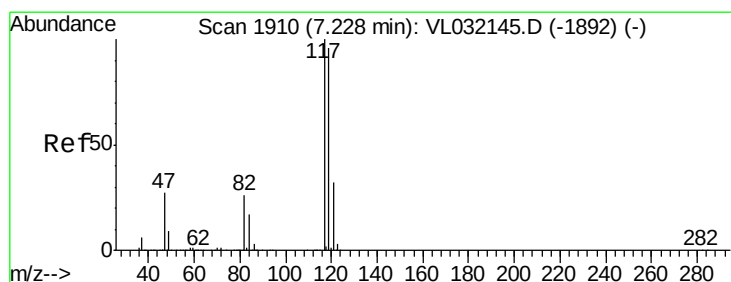
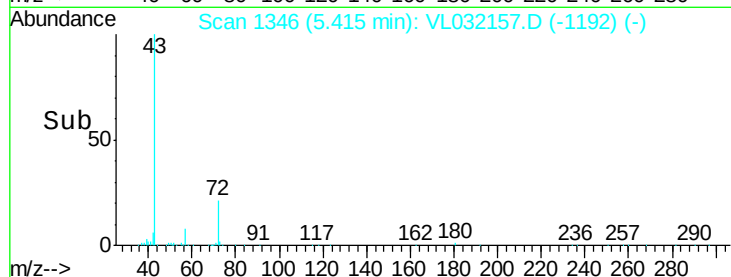
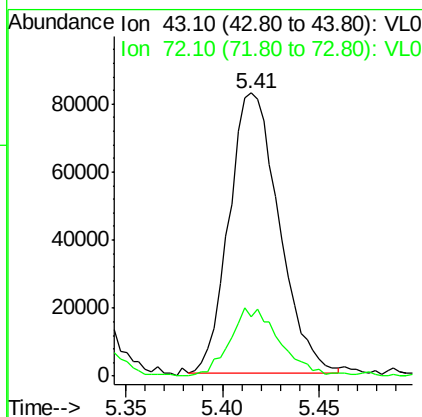
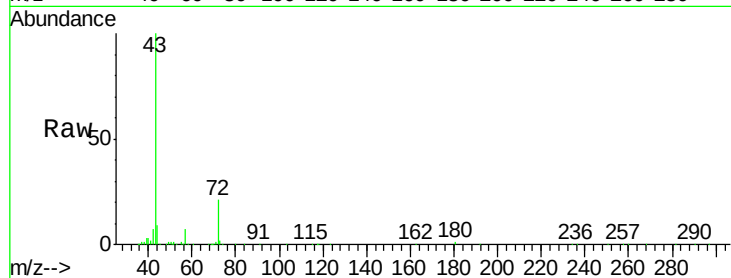
#34
2-Butanone
Concen: 0.63 ppbv
RT: 5.41 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	43	Resp	148349
Ion Ratio	Lower	Upper	
43	100		
72	25.0	18.4	27.6

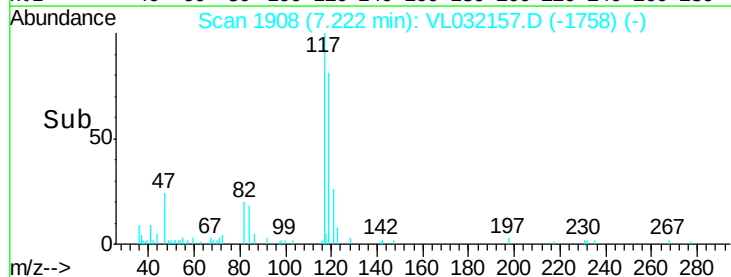
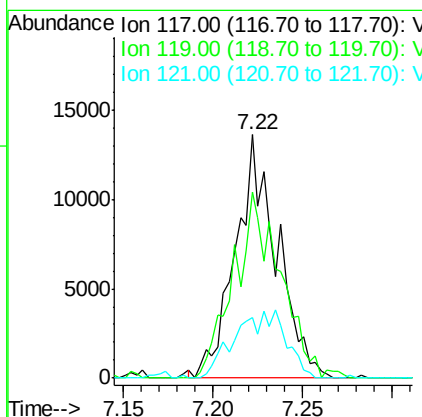
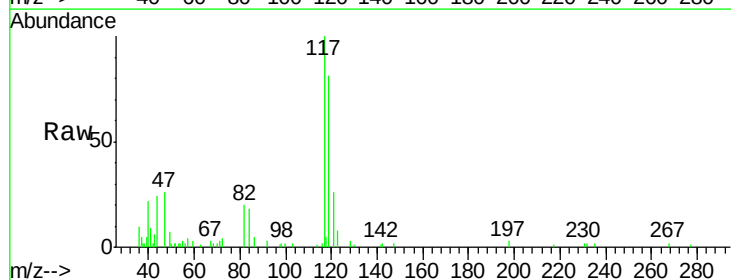
Manual Integrations
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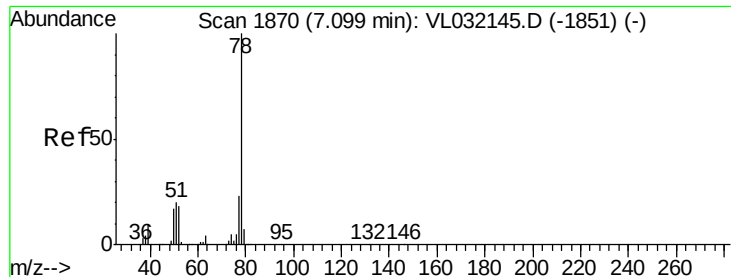
MMDadoda
7/2/2018 4:25:28 PM



#35
Carbon Tetrachloride
Concen: 0.09 ppbv m
RT: 7.22 min Scan# 1908
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	117	Resp	21854
Ion Ratio	Lower	Upper	
117	100		
119	80.6	74.8	112.2
121	26.2	24.0	36.0





#36

Benzene

Concen: 0.13 ppbv

RT: 7.10 min Scan# 1869

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

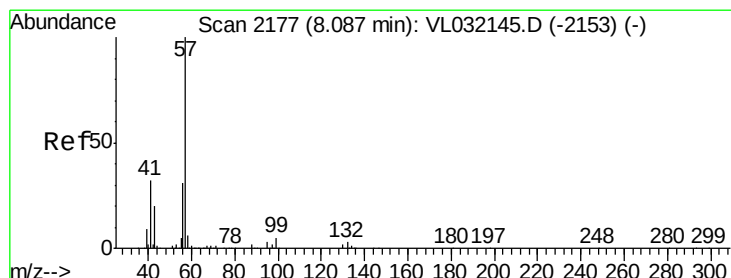
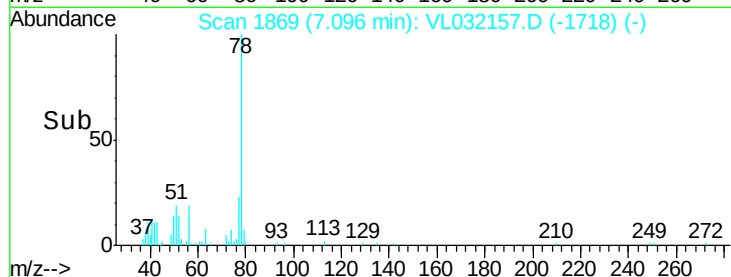
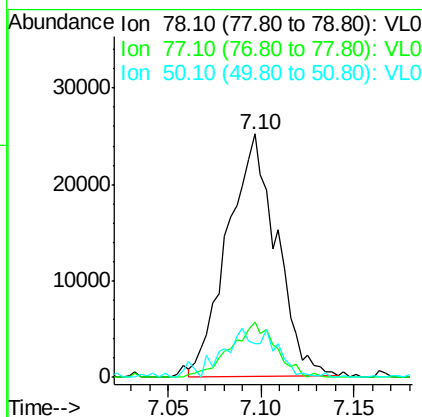
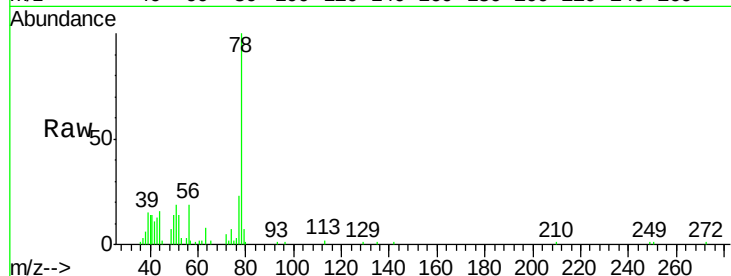
ClientSampleId :

OUTDOOR-1DUP

Tot Ion:	78	Resp:	45983
Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.7	26.5
50	14.1	14.0	21.0

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 0.15 ppbv

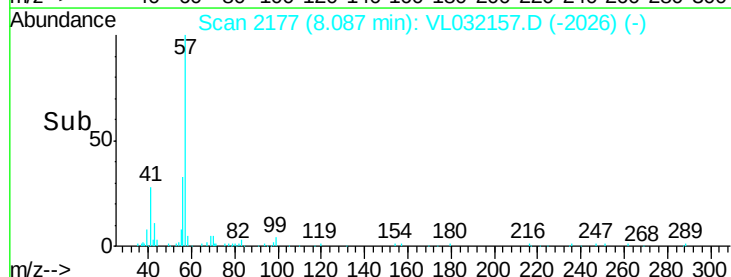
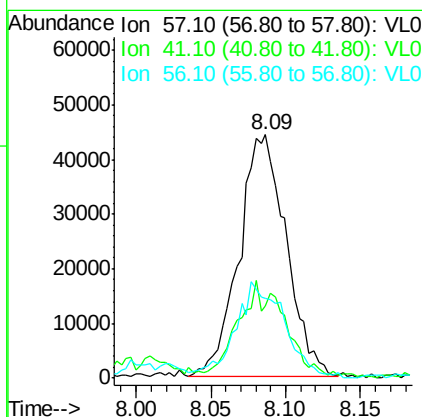
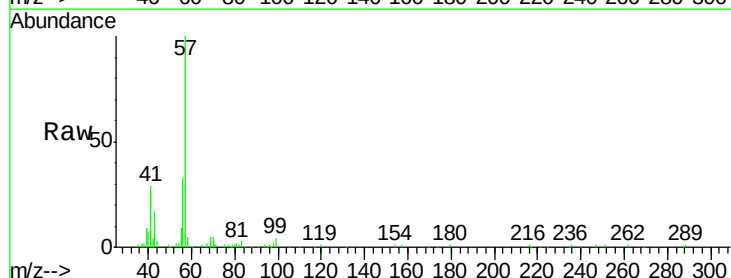
RT: 8.09 min Scan# 2177

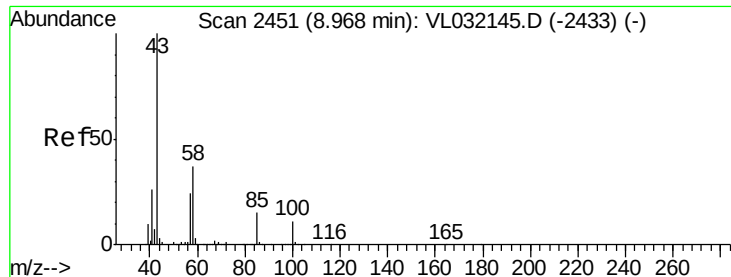
Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Tgt Ion:	57	Resp:	96950
Ion	Ratio	Lower	Upper
57	100		
41	40.0	24.3	36.5#
56	41.4	25.1	37.7#





#50

4-Methyl-2-Pentanone

Concen: 0.14 ppbv m

RT: 8.99 min Scan# 2458

Delta R.T. 0.01 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion: 43 Resp: 54867

Ion Ratio Lower Upper

43 100

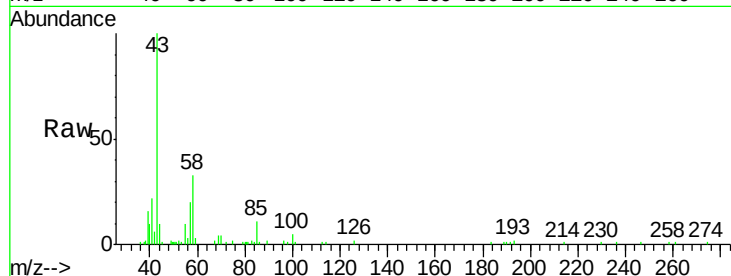
58 0.0 29.8 44.6#

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8.99

25000

20000

15000

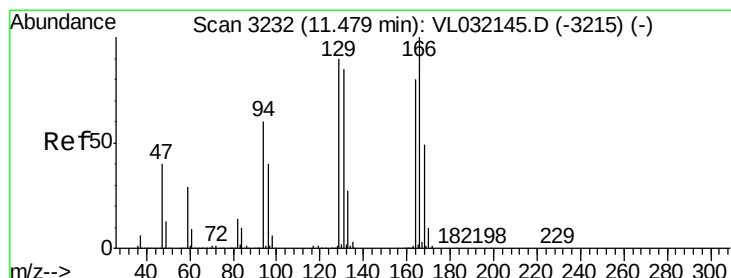
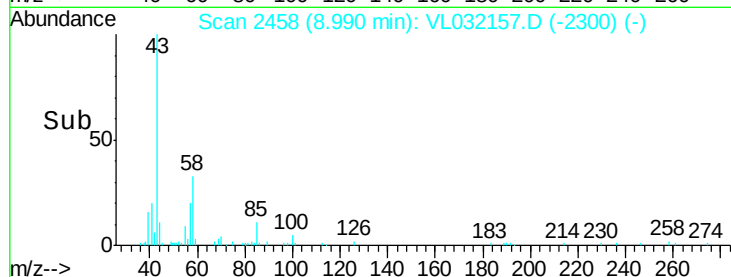
10000

5000

0

8.90 9.00 9.10

Time-->



#52

Tetrachloroethene

Concen: 0.09 ppbv m

RT: 11.48 min Scan# 3232

Delta R.T. -0.01 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Tgt Ion: 164 Resp: 12110

Ion Ratio Lower Upper

164 100

166 132.4 100.6 151.0

129 97.4 84.0 126.0

131 90.9 82.7 124.1

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

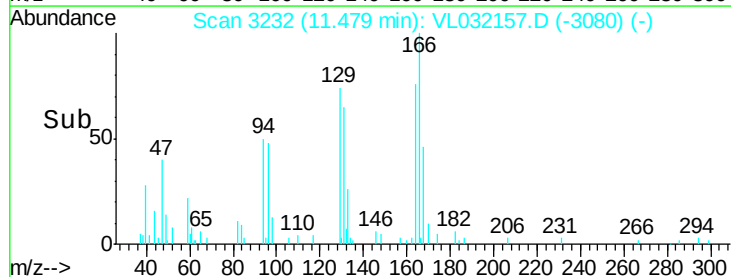
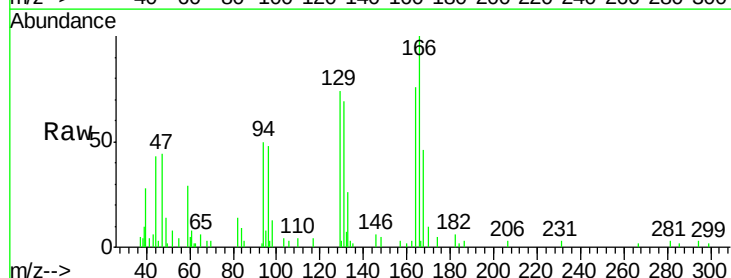
10000

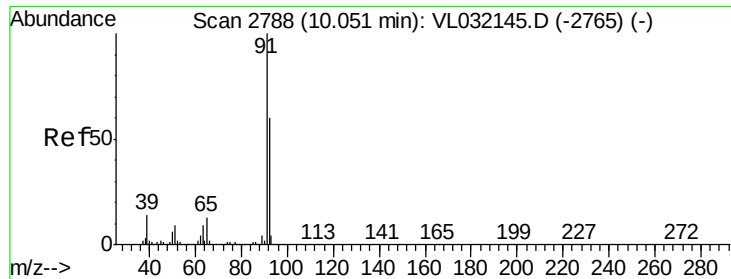
5000

0

11.40 11.45 11.50

Time-->





#53

Toluene

Concen: 1.69 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion: 91 Resp: 731807

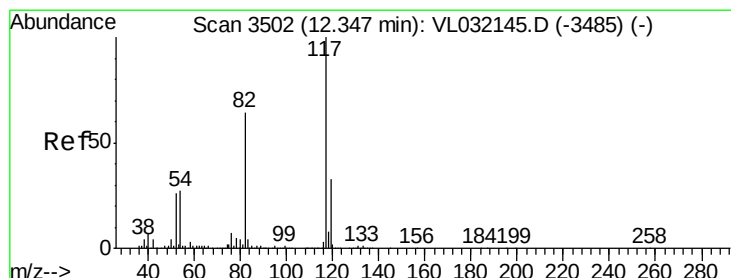
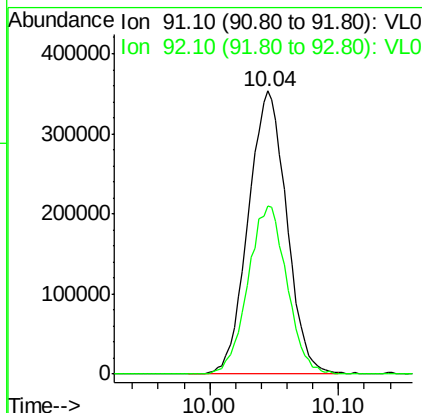
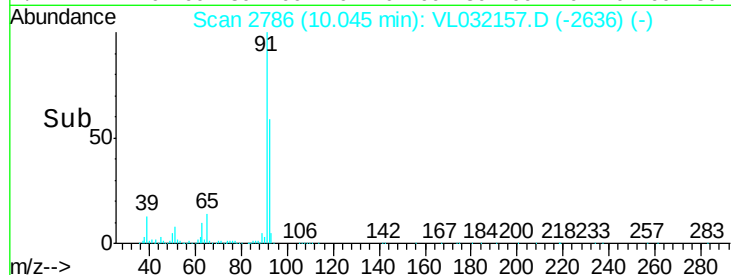
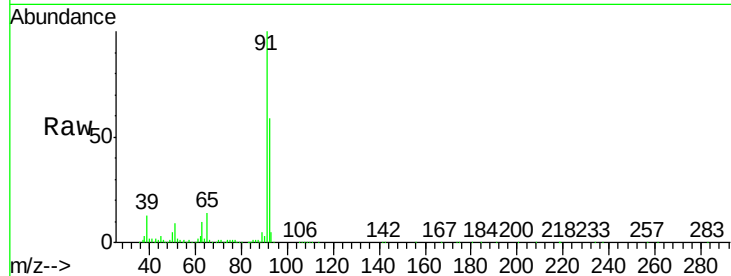
Ion Ratio Lower Upper

91 100

92 60.4 49.2 73.8

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3501

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

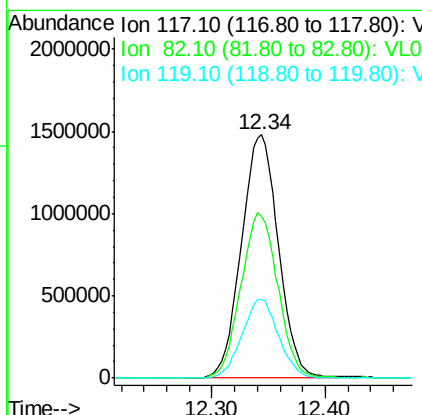
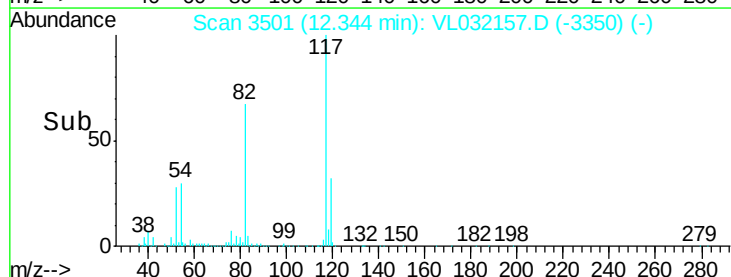
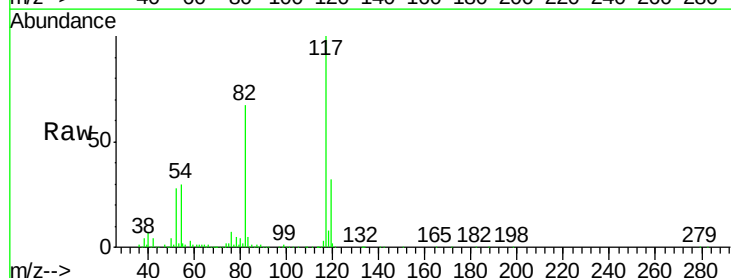
Tgt Ion: 117 Resp: 3364815

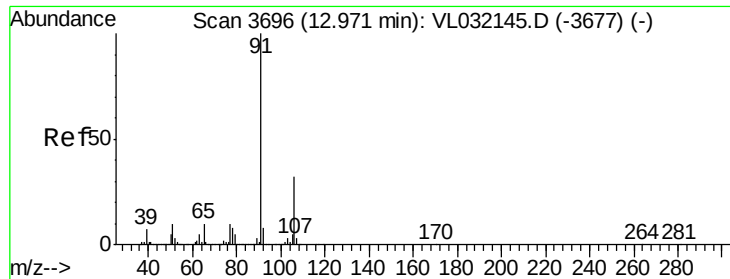
Ion Ratio Lower Upper

117 100

82 68.5 47.8 71.8

119 32.2 43.3 64.9#





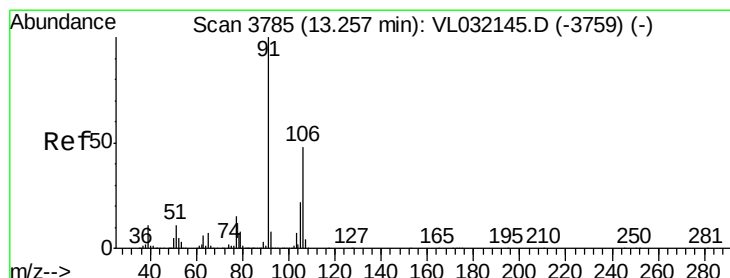
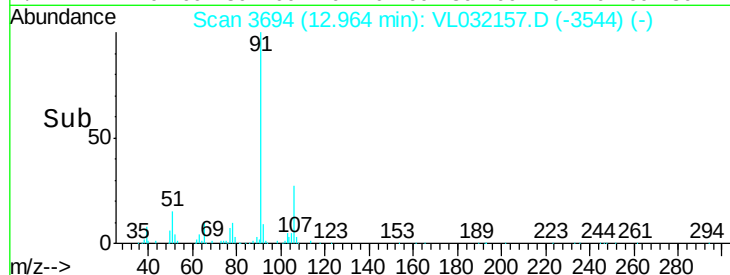
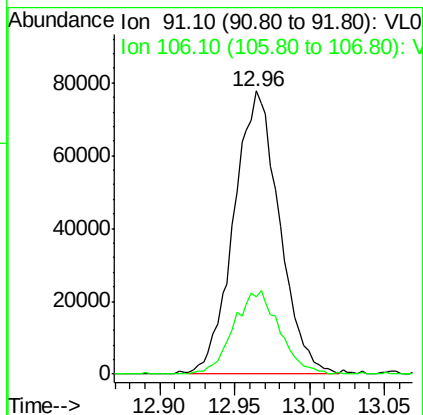
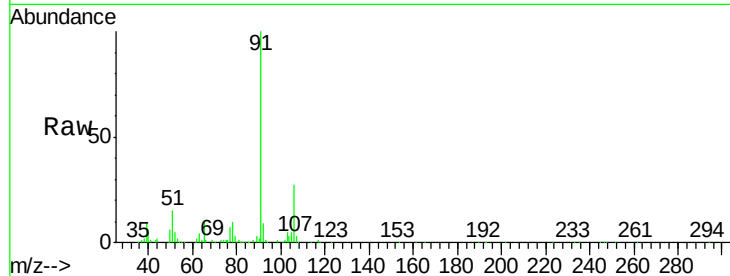
#58
Ethyl Benzene
Concen: 0.30 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	27.2	26.5	39.7

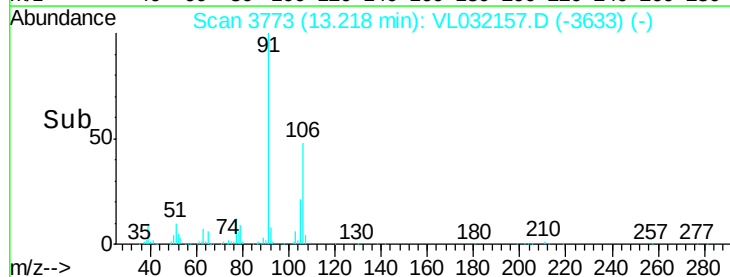
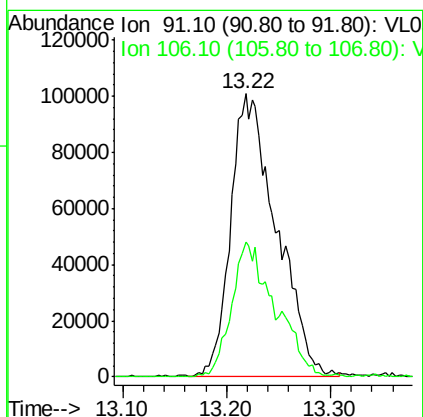
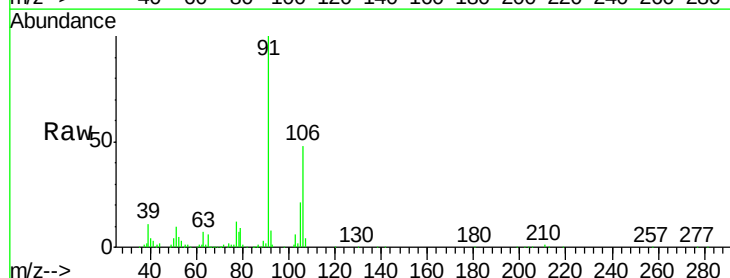
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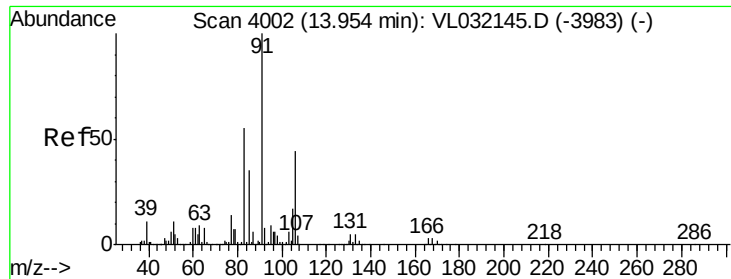
MMDadoda
7/2/2018 4:25:28 PM



#59
m/p-Xylene
Concen: 0.71 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.6	58.0#





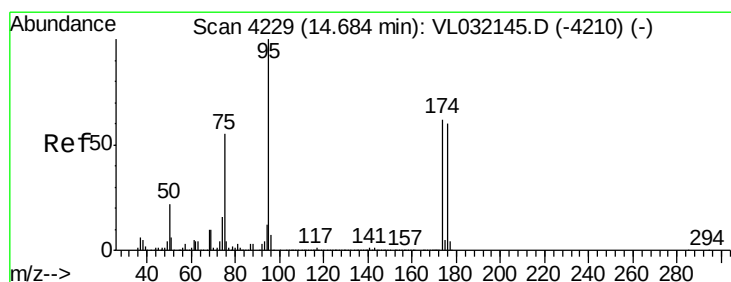
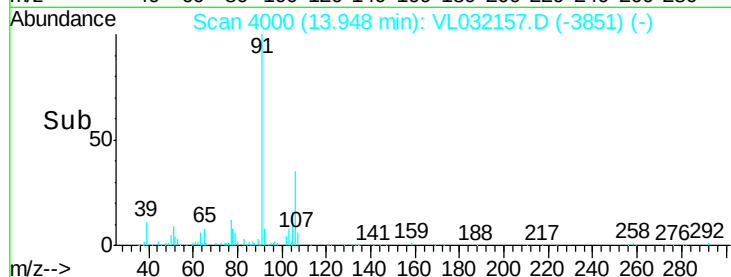
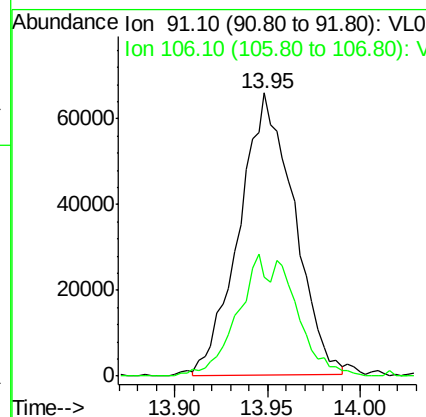
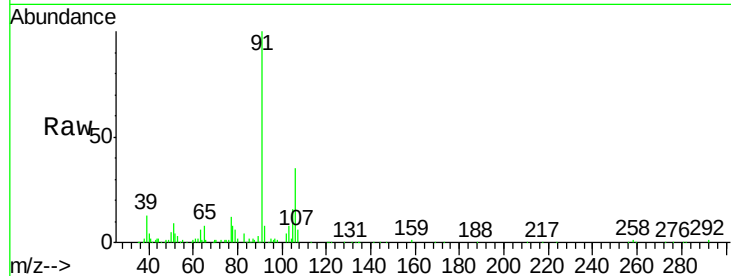
#60
o-Xylene
Concen: 0.31 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.1	23.3	69.8

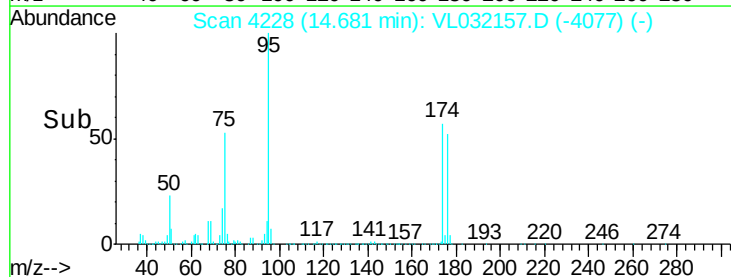
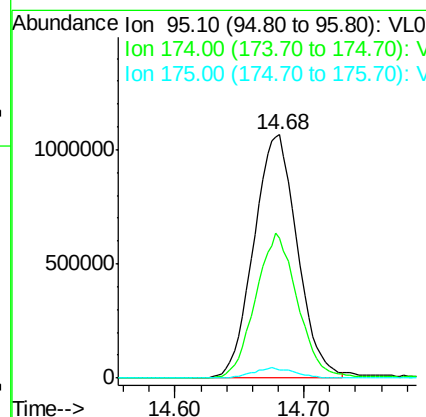
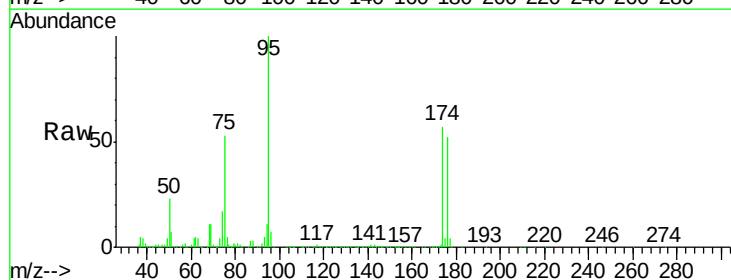
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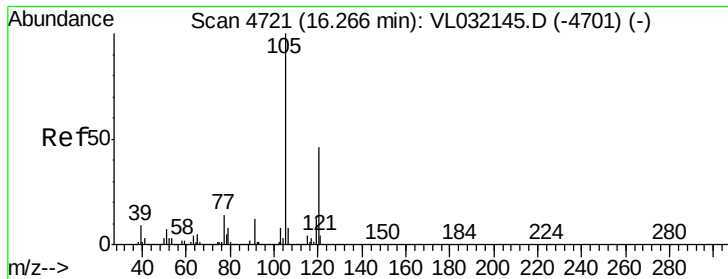
MMDadoda
7/2/2018 4:25:28 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.74 ppbv
RT: 14.68 min Scan# 4228
Delta R.T. -0.02 min
Lab File: VL032157.D
Acq: 30 Jun 2018 5:56

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.4	52.1	78.1
175	4.3	4.0	6.0





#73

1,3,5-Trimethylbenzene

Concen: 0.11 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1DUP

Tot Ion:105 Resp: 55727

Ion Ratio Lower Upper

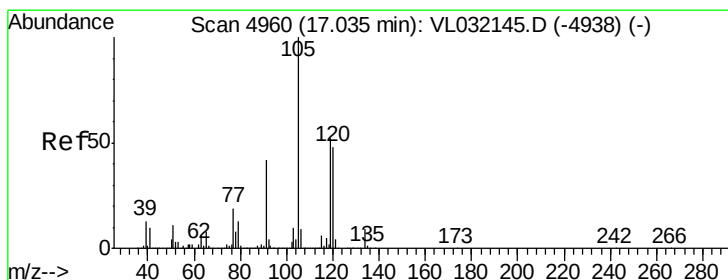
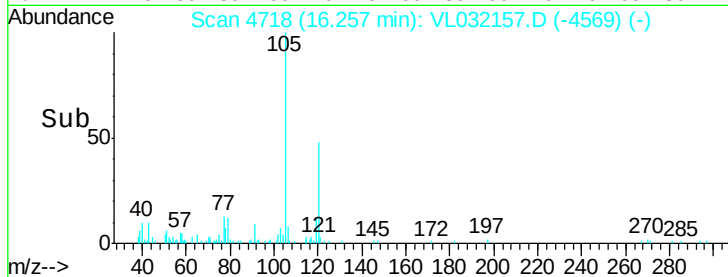
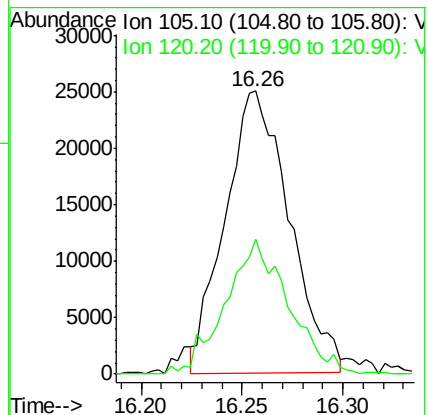
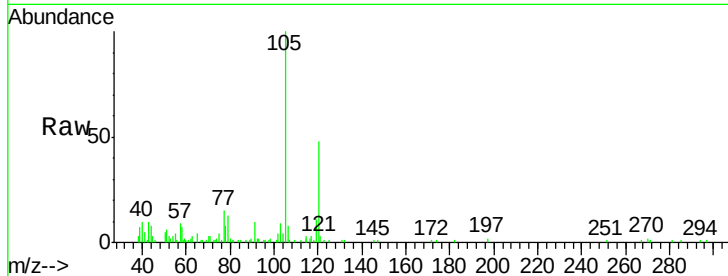
105 100

120 51.4 38.6 57.8

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.27 ppbv

RT: 17.03 min Scan# 4958

Delta R.T. -0.02 min

Lab File: VL032157.D

Acq: 30 Jun 2018 5:56

Tgt Ion:105 Resp: 141284

Ion Ratio Lower Upper

105 100

120 55.2 38.8 58.2

91 13.0 33.6 50.4#

77 14.1 16.0 24.0#

