

Data File : VL032724.D
Acq On : 7 Nov 2018 19:39
Operator : SY/AP
Sample : J5823-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-03DL

Quant Time: Nov 08 10:54:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1466263	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3636040	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3587502	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2760735 10.34 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.40%

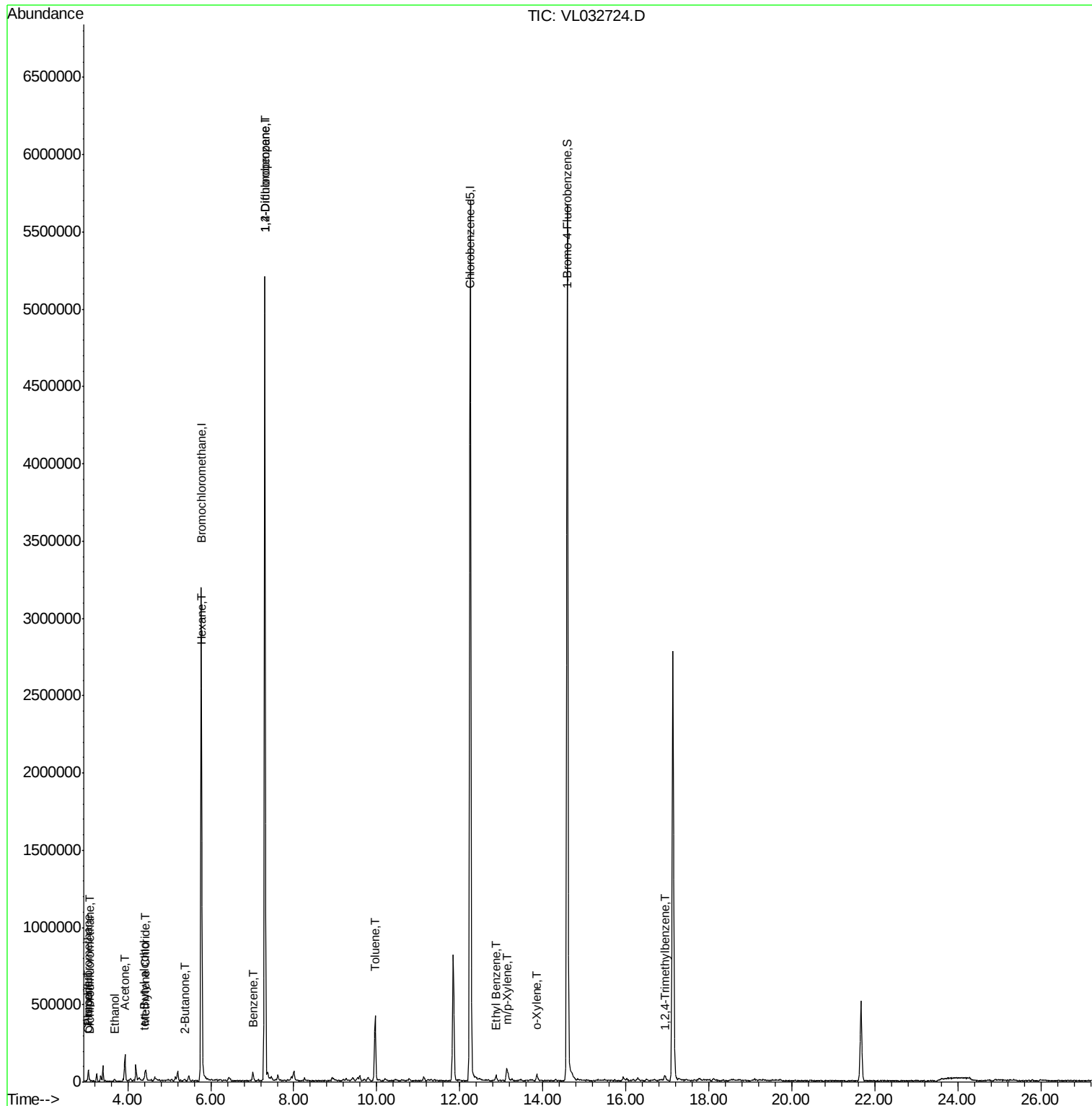
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	8192	0.055	ppbv	96
3) Chlorodifluoromethane	3.02	51	8336	0.073	ppbv	99
9) Propene	3.04	41	12006	0.254	ppbv #	15
13) Ethanol	3.68	45	10077	0.747	ppbv	85
15) Acetone	3.93	43	113212	0.836	ppbv #	87
17) tert-Butyl alcohol	4.40	59	2421	0.061	ppbv #	100
20) Methylene Chloride	4.42	84	19359	0.282	ppbv	95
26) Hexane	5.79	57	20881	0.142	ppbv #	45
34) 2-Butanone	5.37	43	7897	0.041	ppbv #	54
36) Benzene	7.01	78	22066	0.075	ppbv	94
39) 1,2-Dichloropropane	7.30	63	923777	8.102	ppbv #	26
53) Toluene	9.96	91	303861	0.898	ppbv	98
58) Ethyl Benzene	12.88	91	20452	0.049	ppbv	92
59) m/p-Xylene	13.16	91	19357	0.052	ppbv #	31
60) o-Xylene	13.86	91	17415	0.049	ppbv #	64
74) 1,2,4-Trimethylbenzene	16.94	105	12966	0.033	ppbv #	70

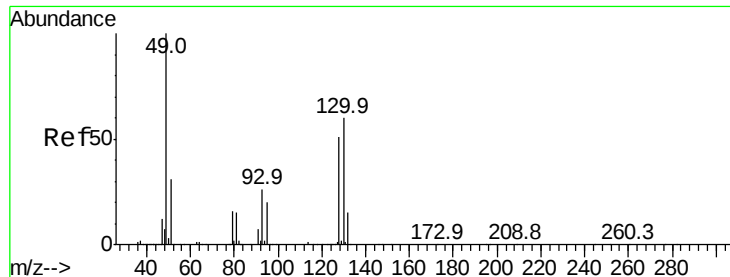
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

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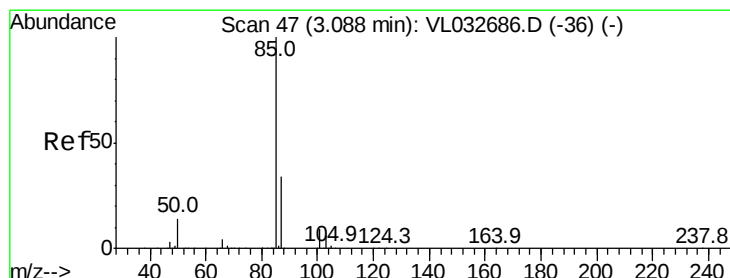
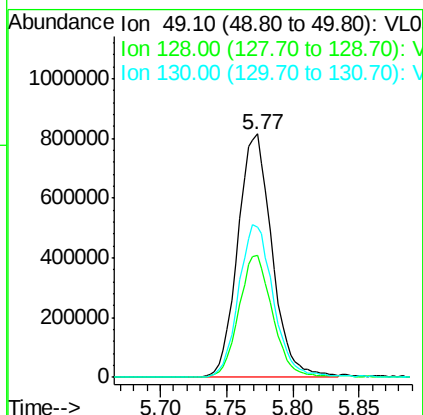
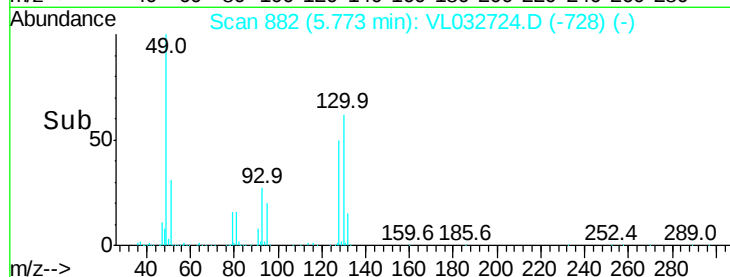
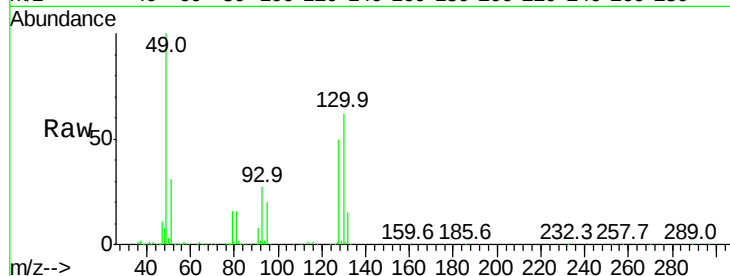
Tgt Ion: 49 Resp: 1466263

Ion Ratio Lower Upper

49 100

128 50.0 22.3 66.8

130 64.3 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 0.055 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032724.D

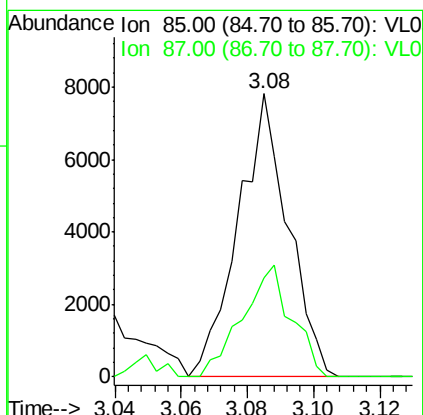
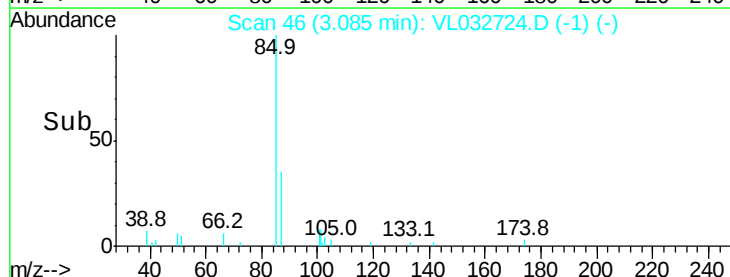
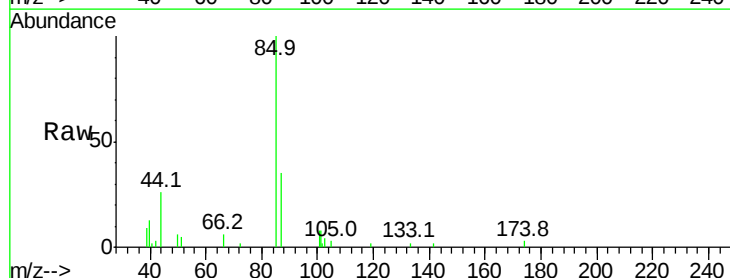
Acq: 7 Nov 2018 19:39

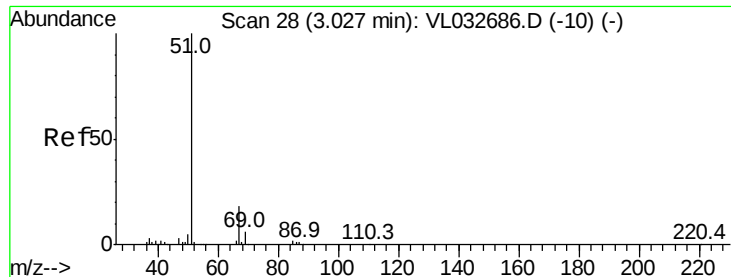
Tgt Ion: 85 Resp: 8192

Ion Ratio Lower Upper

85 100

87 34.9 26.2 39.2

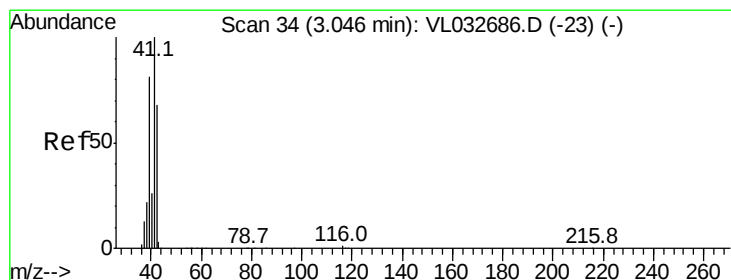
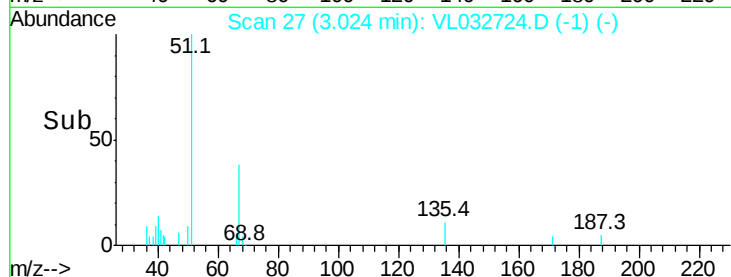
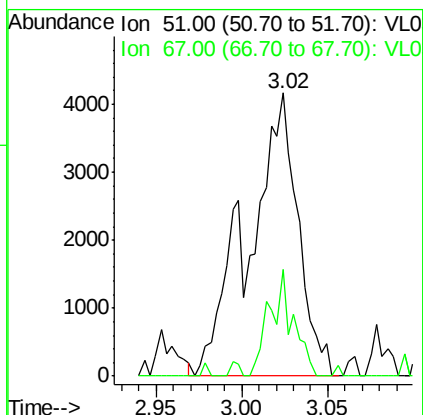
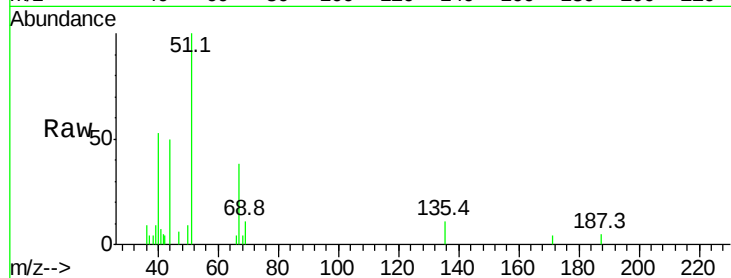




#3
 Chlorodifluoromethane
 Concen: 0.073 ppbv
 RT: 3.02 min Scan# 27
 Delta R.T. 0.00 min
 Lab File: VL032724.D
 Acq: 7 Nov 2018 19:39

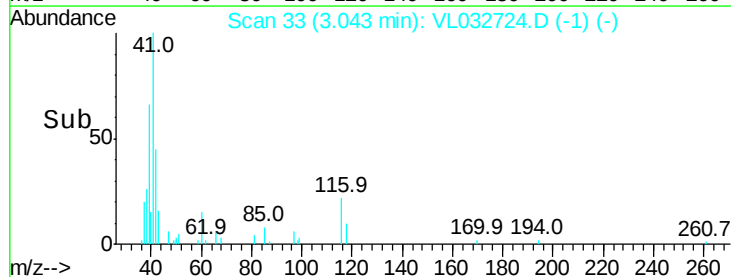
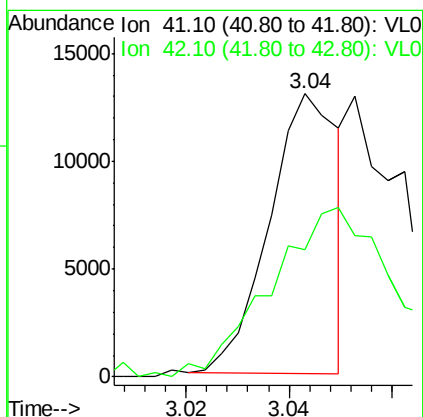
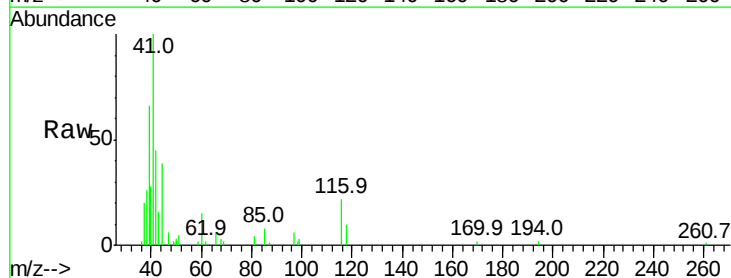
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-03DL

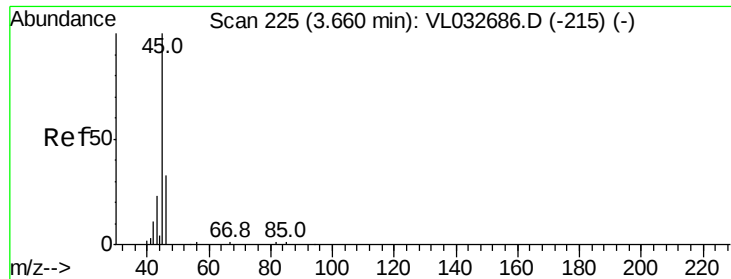
Tgt Ion: 51 Resp: 8336
 Ion Ratio Lower Upper
 51 100
 67 19.6 15.2 22.8



#9
 Propene
 Concen: 0.254 ppbv
 RT: 3.04 min Scan# 33
 Delta R.T. 0.00 min
 Lab File: VL032724.D
 Acq: 7 Nov 2018 19:39

Tgt Ion: 41 Resp: 12006
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.4 83.0#





#13

Ethanol

Concen: 0.747 ppbv

RT: 3.68 min Scan# 231

Delta R.T. 0.02 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

Instrument :

MSVOA_L

ClientSampleId :

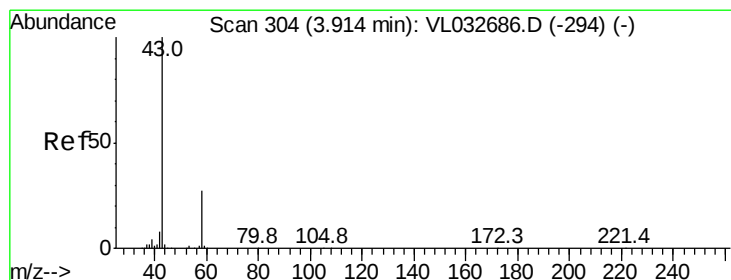
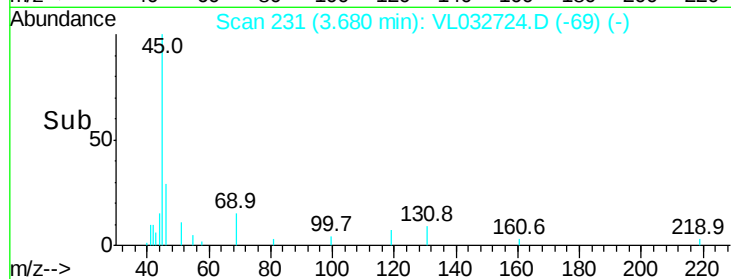
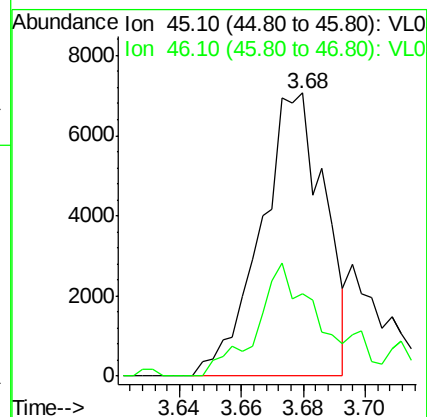
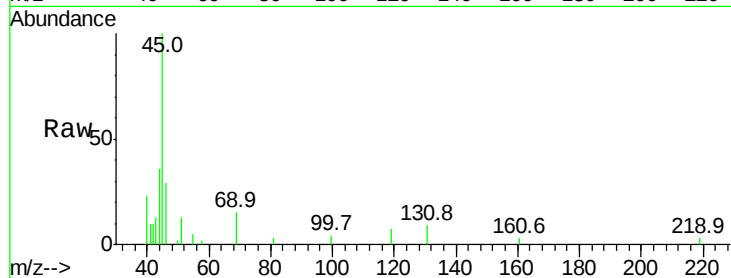
IA-03DL

Tgt Ion: 45 Resp: 10077

Ion Ratio Lower Upper

45 100

46 47.5 15.4 61.8



#15

Acetone

Concen: 0.836 ppbv

RT: 3.93 min Scan# 309

Delta R.T. 0.02 min

Lab File: VL032724.D

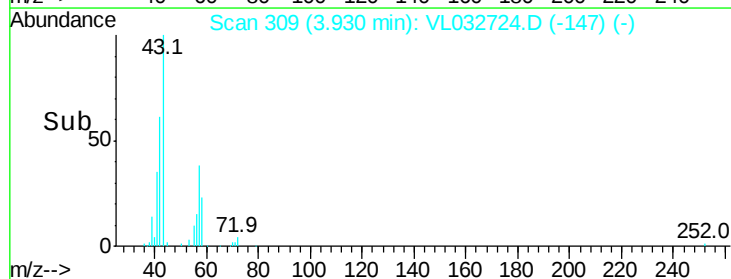
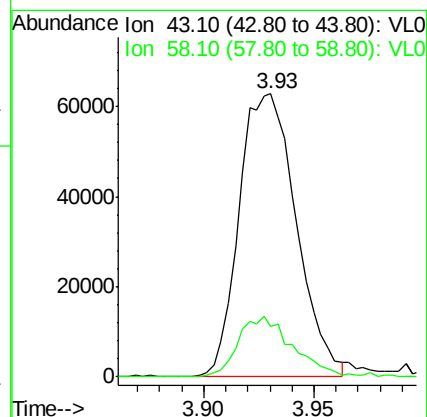
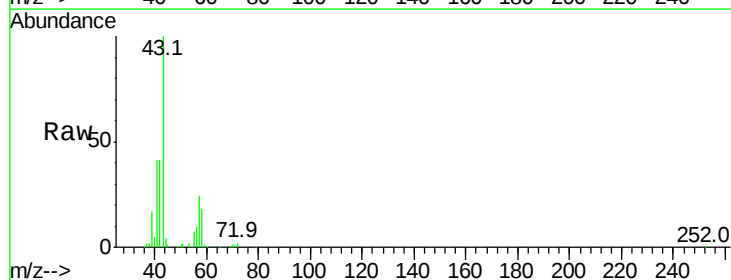
Acq: 7 Nov 2018 19:39

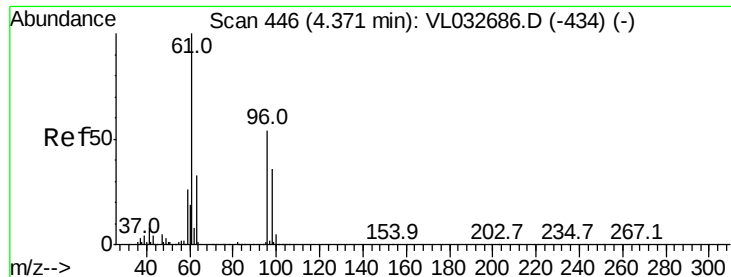
Tgt Ion: 43 Resp: 113212

Ion Ratio Lower Upper

43 100

58 20.8 22.1 33.1#



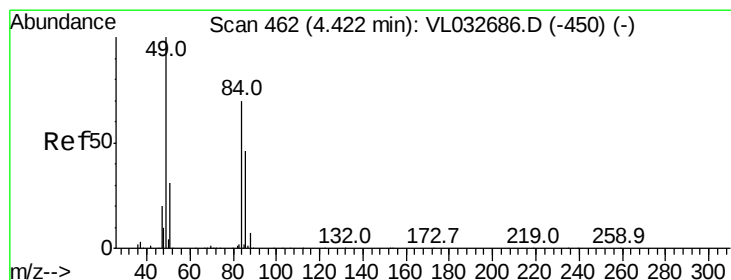
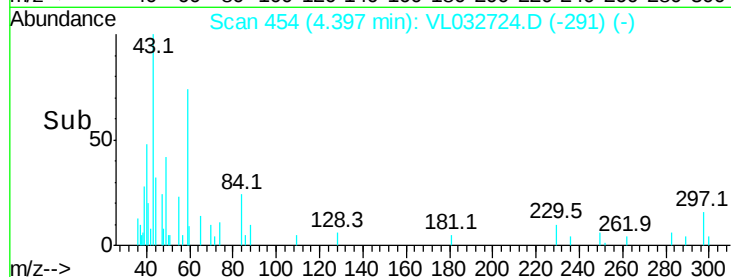
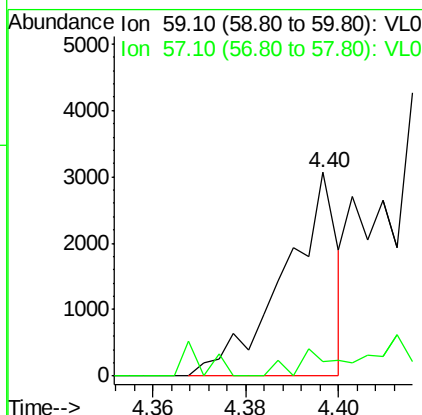
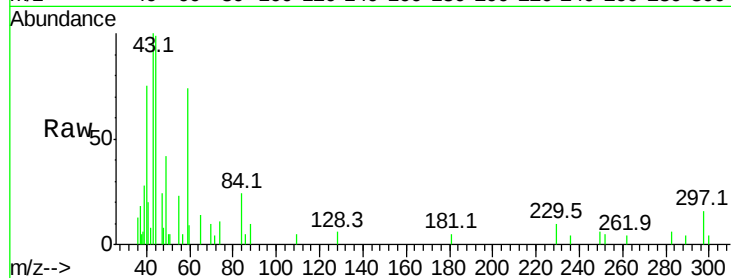


#17

tert-Butyl alcohol
Concen: 0.061 ppbv
RT: 4.40 min Scan# 454
Delta R.T. 0.02 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

Instrument :
MSVOA_L
ClientSampleId :
IA-03DL

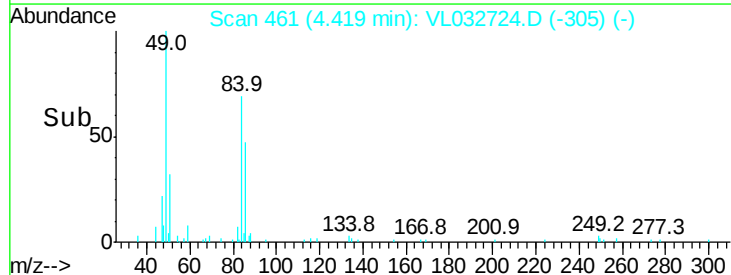
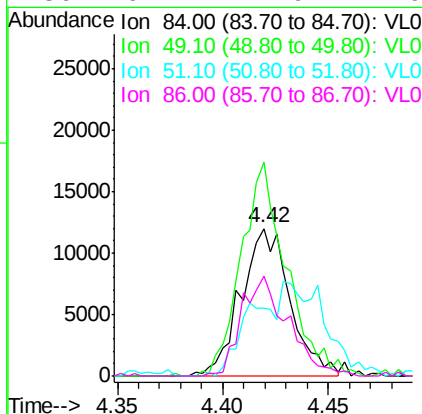
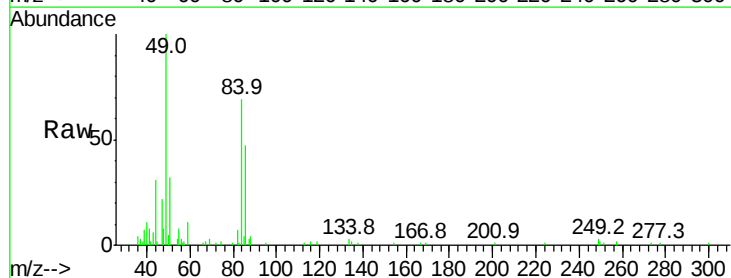
Tgt Ion: 59 Resp: 2421
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

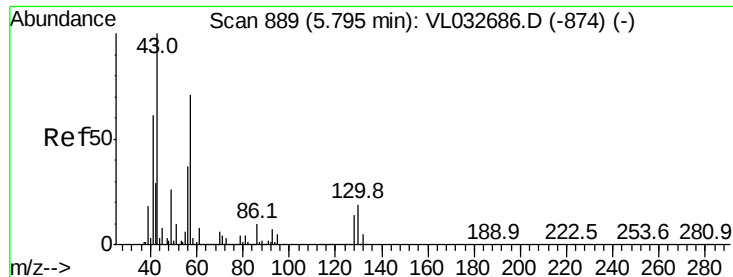


#20

Methylene Chloride
Concen: 0.282 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

Tgt Ion: 84 Resp: 19359
Ion Ratio Lower Upper
84 100
49 144.9 113.5 170.3
51 46.3 34.8 52.2
86 67.4 47.9 71.9

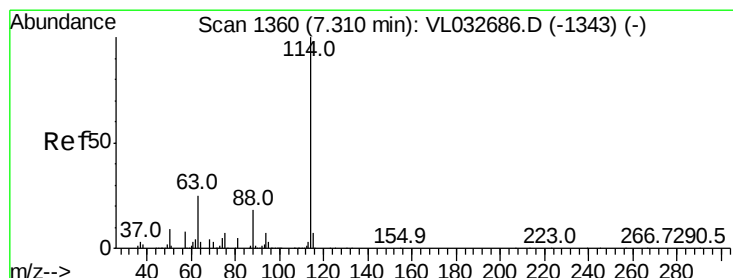
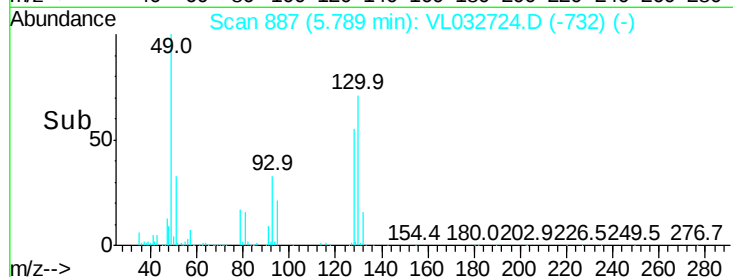
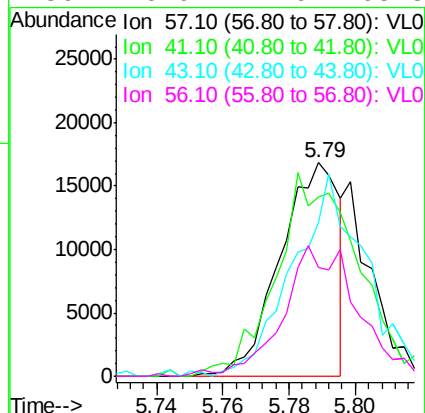
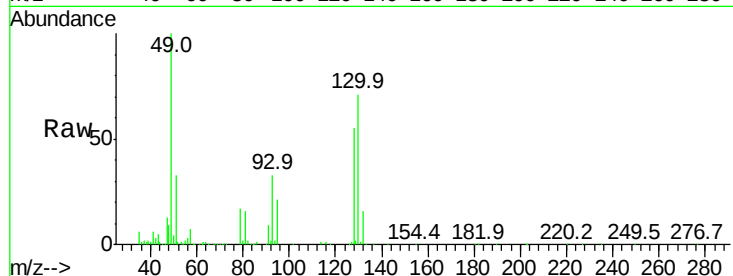




#26
Hexane
Concen: 0.142 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

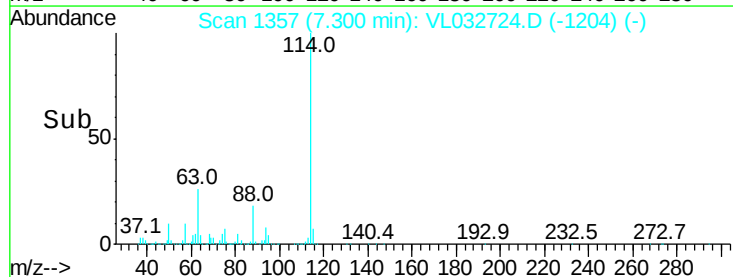
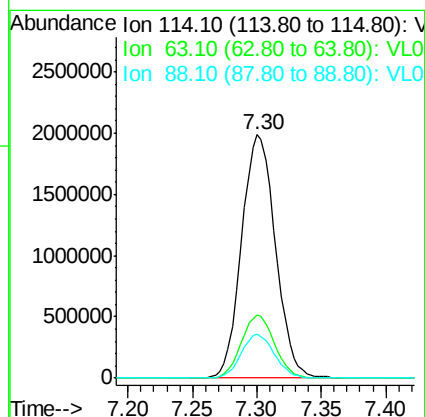
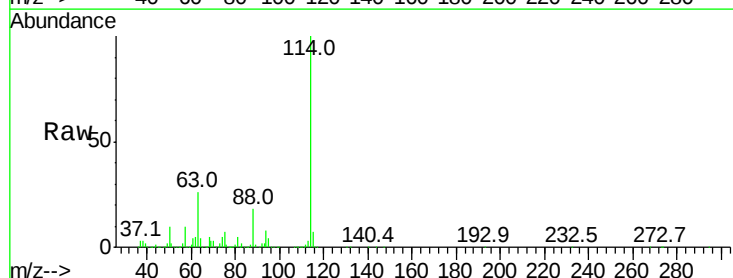
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MSVOA_L
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IA-03DL

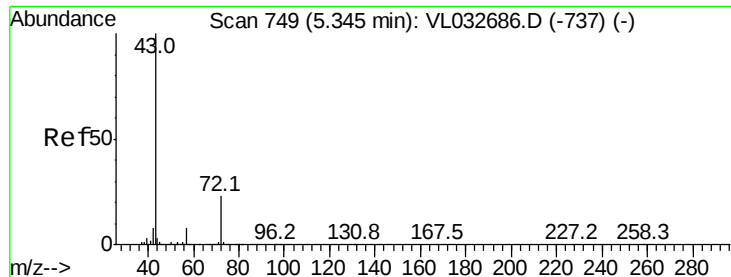
Tgt Ion: 57 Resp: 20881
Ion Ratio Lower Upper
57 100
41 133.4 67.4 101.0#
43 119.6 171.9 257.9#
56 76.9 42.6 63.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

Tgt Ion: 114 Resp: 3636040
Ion Ratio Lower Upper
114 100
63 25.6 21.7 32.5
88 17.7 14.9 22.3





#34

2-Butanone

Concen: 0.041 ppbv

RT: 5.37 min Scan# 756

Delta R.T. 0.03 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

Instrument :

MSVOA_L

ClientSampleId :

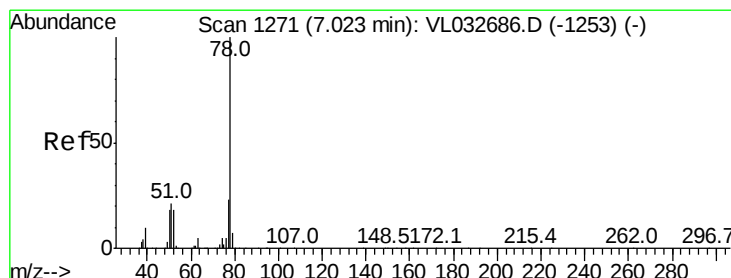
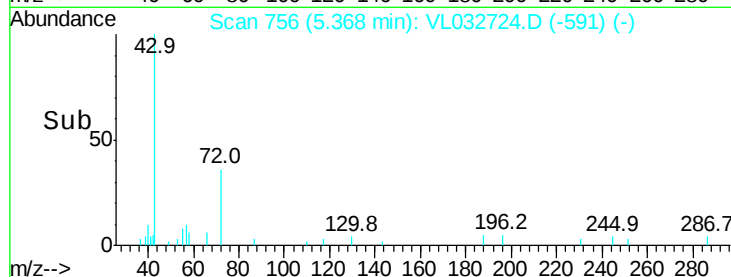
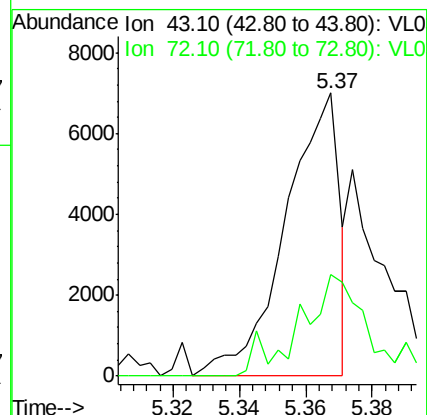
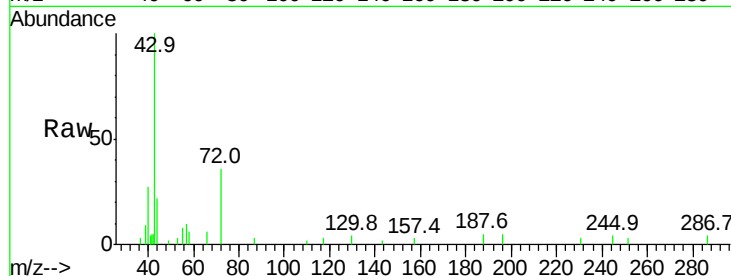
IA-03DL

Tgt Ion: 43 Resp: 7897

Ion Ratio Lower Upper

43 100

72 45.4 18.6 27.8#



#36

Benzene

Concen: 0.075 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

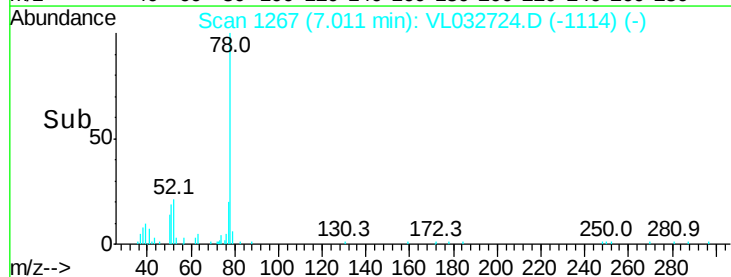
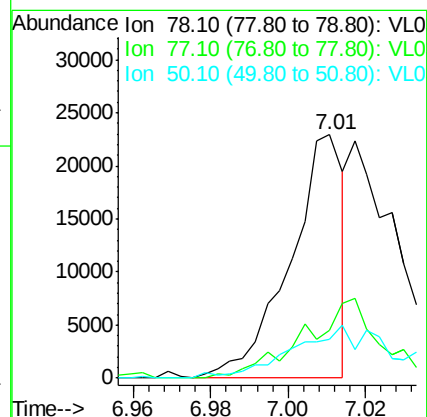
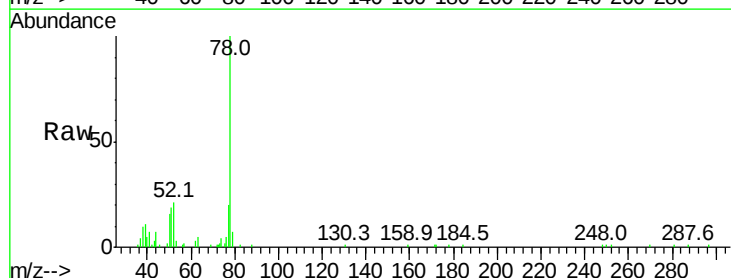
Tgt Ion: 78 Resp: 22066

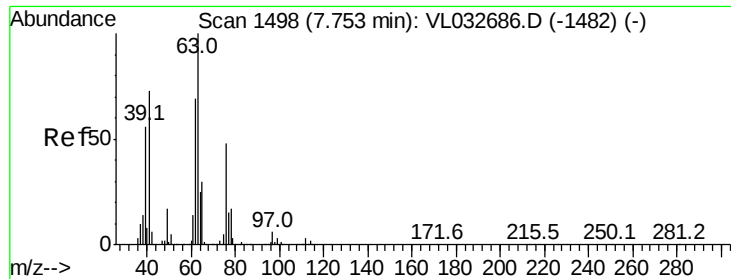
Ion Ratio Lower Upper

78 100

77 19.8 18.1 27.1

50 15.7 15.1 22.7





#39

1,2-Dichloropropane

Concen: 8.102 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.45 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

Instrument :

MSVOA_L

ClientSampleId :

IA-03DL

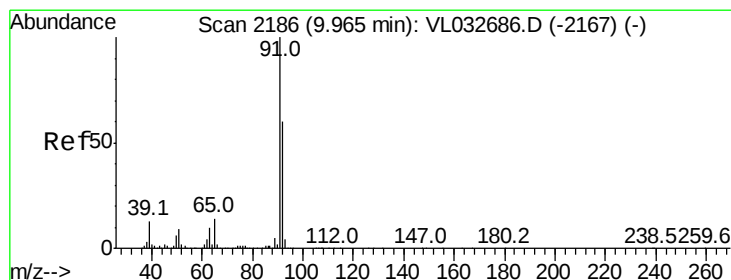
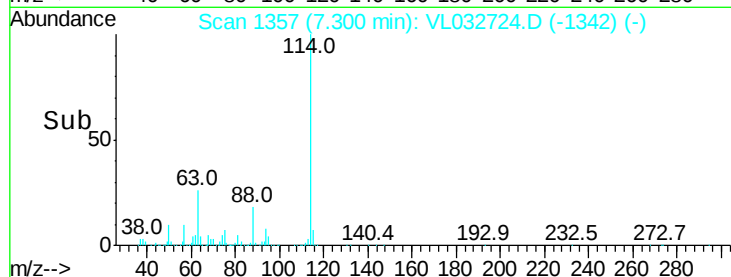
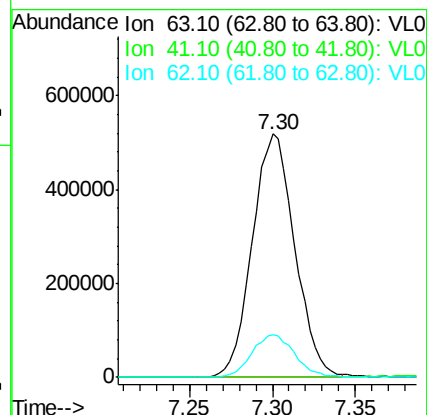
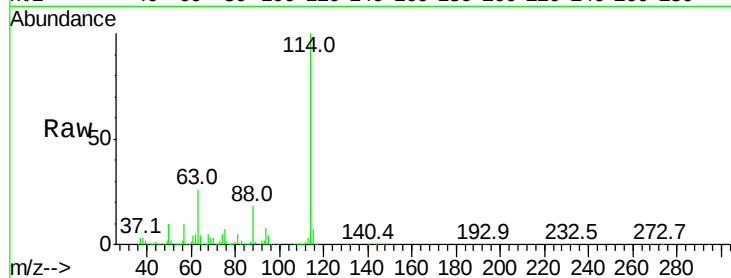
Tgt Ion: 63 Resp: 923777

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.4 54.4 81.6#



#53

Toluene

Concen: 0.898 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032724.D

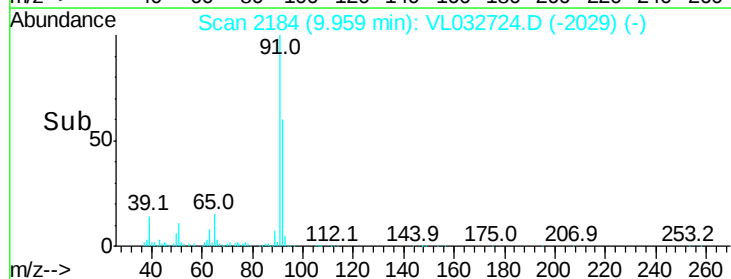
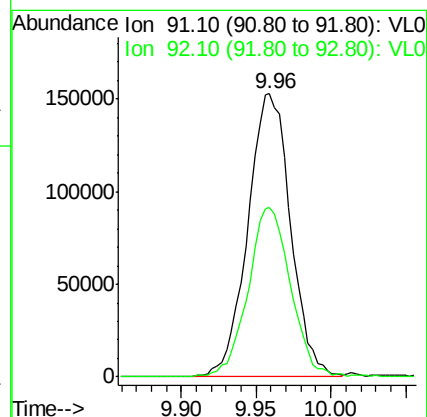
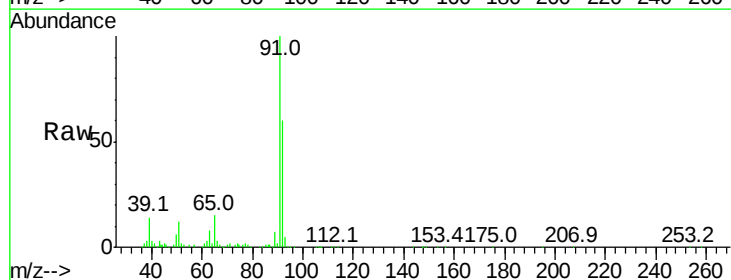
Acq: 7 Nov 2018 19:39

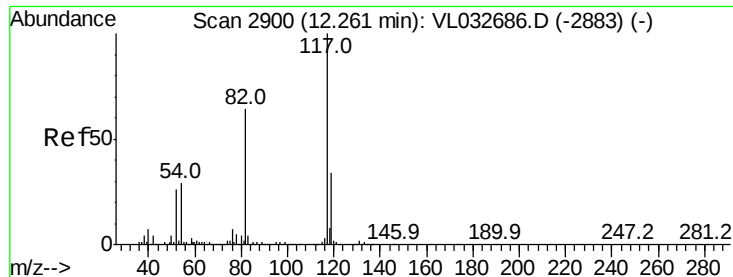
Tgt Ion: 91 Resp: 303861

Ion Ratio Lower Upper

91 100

92 59.3 48.4 72.6

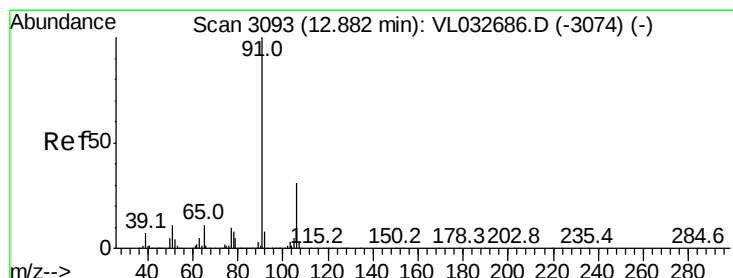
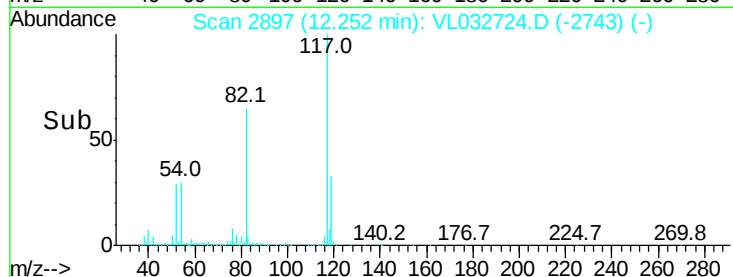
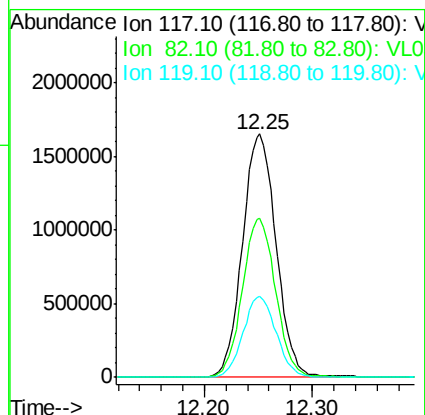
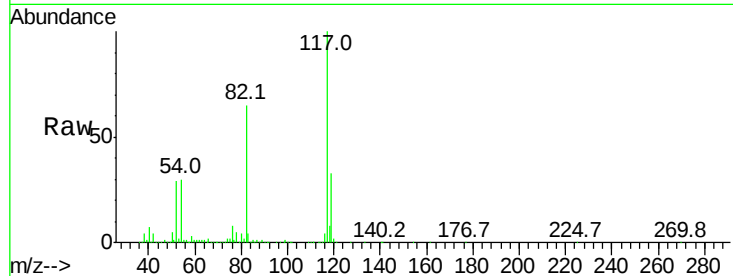




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

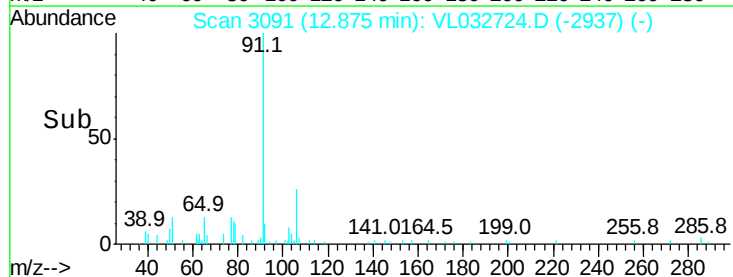
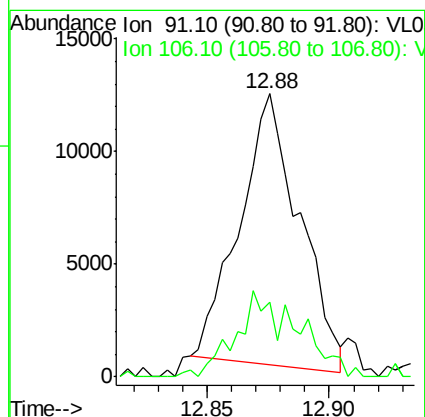
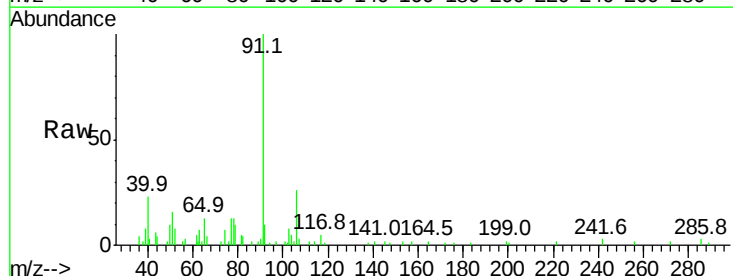
Instrument :
MSVOA_L
ClientSampleId :
IA-03DL

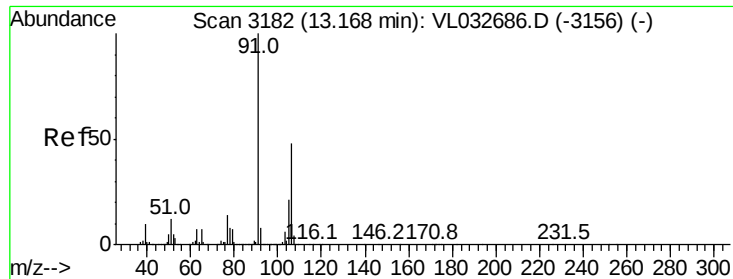
Tgt Ion:117 Resp: 3587502
Ion Ratio Lower Upper
117 100
82 65.2 52.7 79.1
119 33.1 26.7 40.1



#58
Ethyl Benzene
Concen: 0.049 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

Tgt Ion: 91 Resp: 20452
Ion Ratio Lower Upper
91 100
106 25.9 24.2 36.2

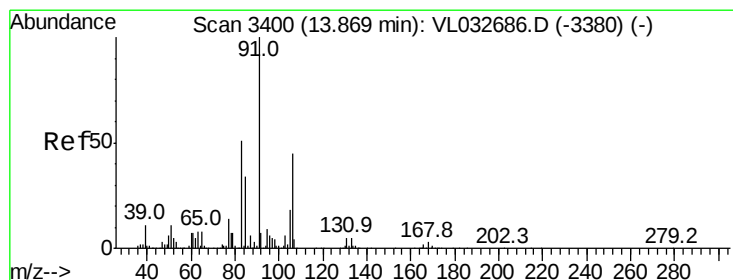
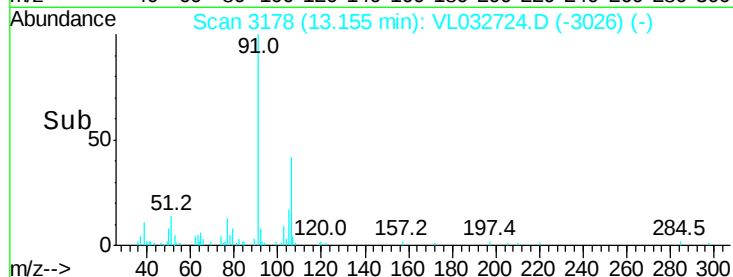
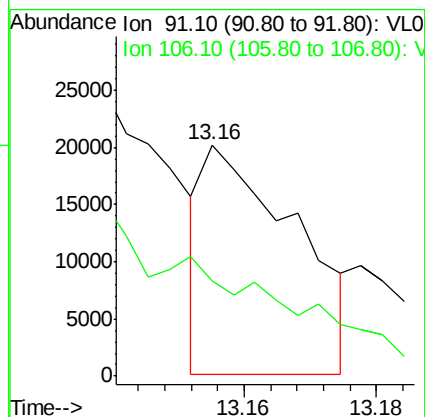
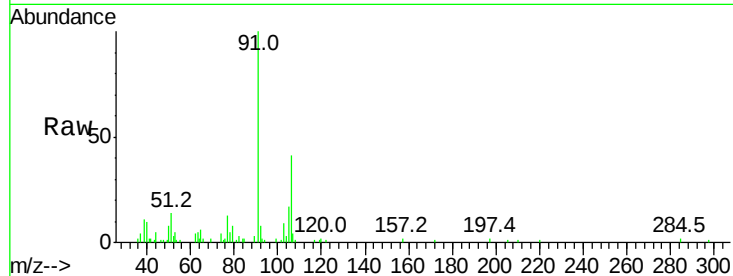




#59
m/p-Xylene
Concen: 0.052 ppbv
RT: 13.16 min Scan# 3178
Delta R.T. -0.01 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

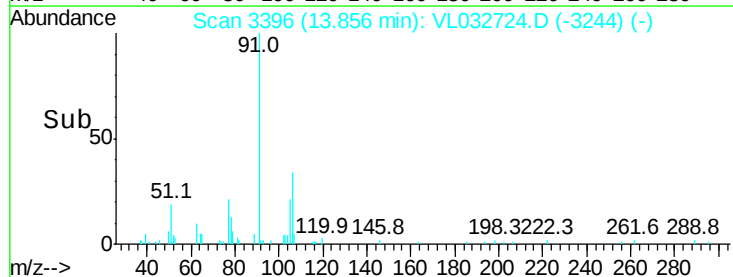
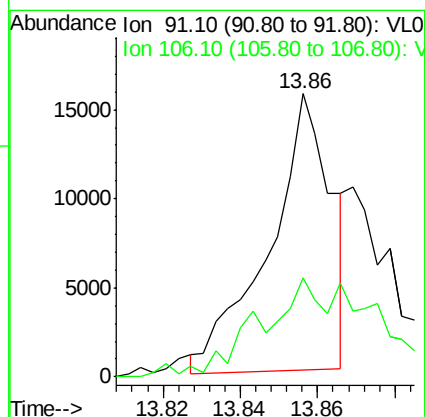
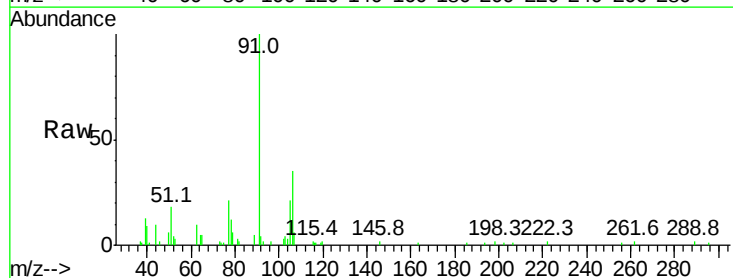
Instrument :
MSVOA_L
ClientSampled :
IA-03DL

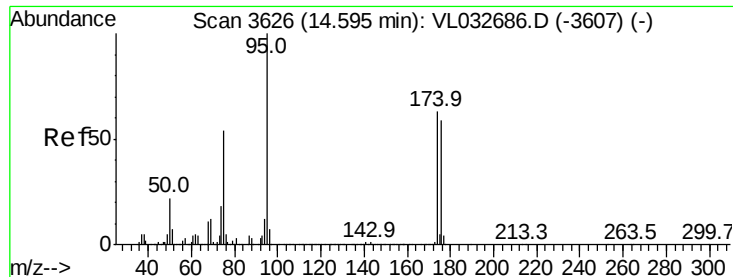
Tgt Ion: 91 Resp: 19357
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#60
o-Xylene
Concen: 0.049 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032724.D
Acq: 7 Nov 2018 19:39

Tgt Ion: 91 Resp: 17415
Ion Ratio Lower Upper
91 100
106 67.4 22.1 66.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.335 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

Instrument :

MSVOA_L

ClientSampleId :

IA-03DL

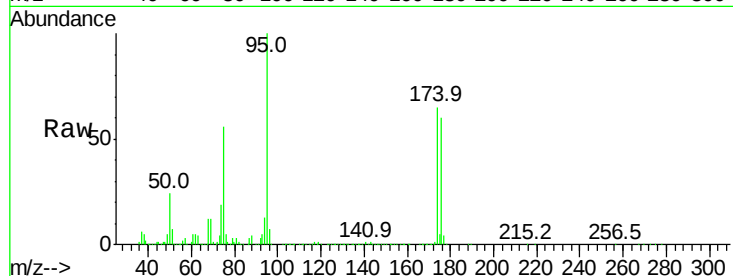
Tgt Ion: 95 Resp: 2760735

Ion Ratio Lower Upper

95 100

174 64.8 46.0 69.0

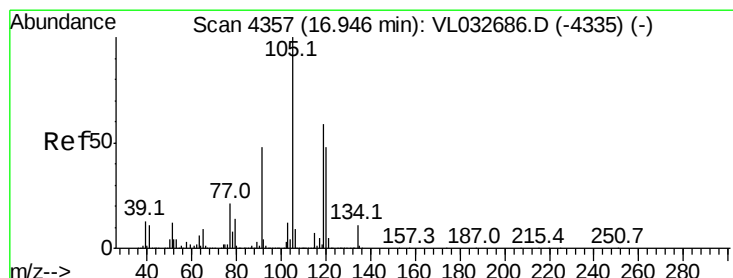
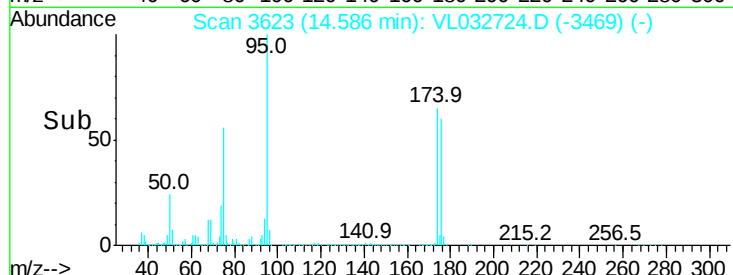
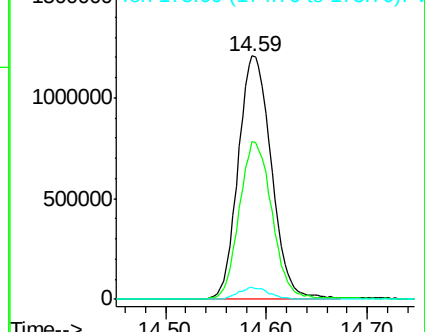
175 4.7 3.4 5.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.033 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL032724.D

Acq: 7 Nov 2018 19:39

Tgt Ion: 105 Resp: 12966

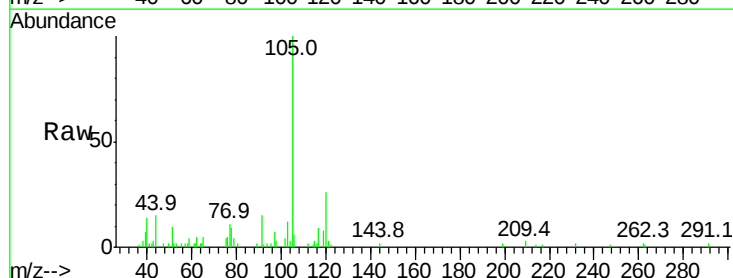
Ion Ratio Lower Upper

105 100

120 24.9 35.8 53.8#

91 15.4 33.2 49.8#

77 18.8 16.2 24.4



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

