

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
 Data File : VL033165.D
 Acq On : 4 Feb 2019 21:52
 Operator : SY/AP
 Sample : K1267-05DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSA1DL

Quant Time: Feb 05 01:06:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

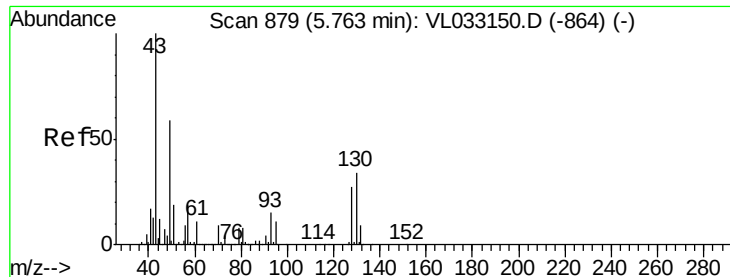
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1361440	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3145418	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	4305589	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	3420879	10.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10906	0.054	ppbv	94
9) Propene	3.05	41	10226	0.134	ppbv	85
13) Ethanol	3.65	45	201646	6.714	ppbv	98
15) Acetone	3.90	43	2388928	14.738	ppbv	99
17) tert-Butyl alcohol	4.37	59	29100	0.813	ppbv #	88
19) Isopropyl Alcohol	4.03	45	219918	1.910	ppbv #	43
20) Methylene Chloride	4.42	84	9763	0.175	ppbv	90
25) Ethyl Acetate	5.78	43	31903	0.095	ppbv #	91
26) Hexane	5.79	57	13305	0.085	ppbv #	1
34) 2-Butanone	5.34	43	254798	1.288	ppbv	100
36) Benzene	7.00	78	14343	0.045	ppbv #	80
39) 1,2-Dichloropropane	7.29	63	806130	6.610	ppbv #	26
50) 4-Methyl-2-Pentanone	8.88	43	75111	0.210	ppbv	97
52) Tetrachloroethene	11.37	164	4828	0.044	ppbv #	78
53) Toluene	9.95	91	253061	0.670	ppbv	97
59) m/p-Xylene	13.13	91	41226	0.074	ppbv #	1
60) o-Xylene	13.84	91	20926	0.041	ppbv #	29
62) Isopropylbenzene	14.83	105	160646	0.220	ppbv #	49
74) 1,2,4-Trimethylbenzene	16.92	105	28893	0.048	ppbv #	68

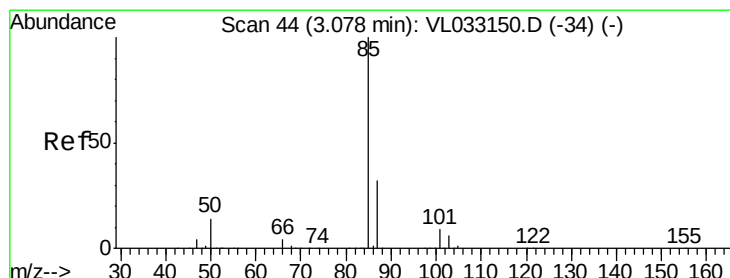
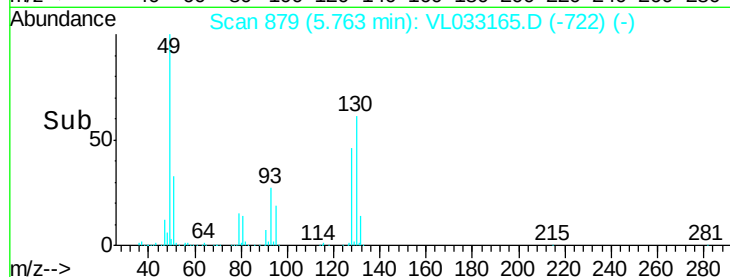
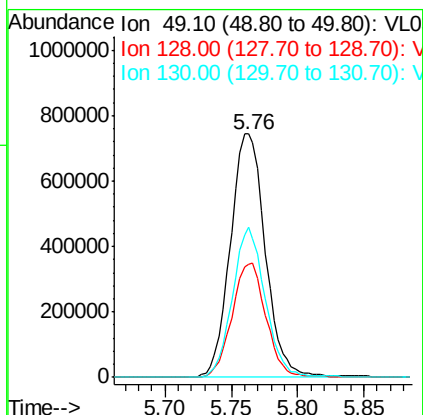
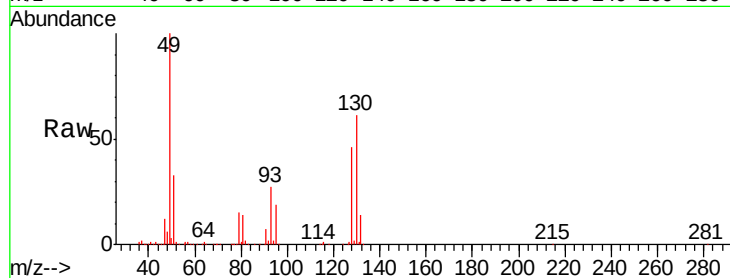
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 879
 Delta R.T. 0.01 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

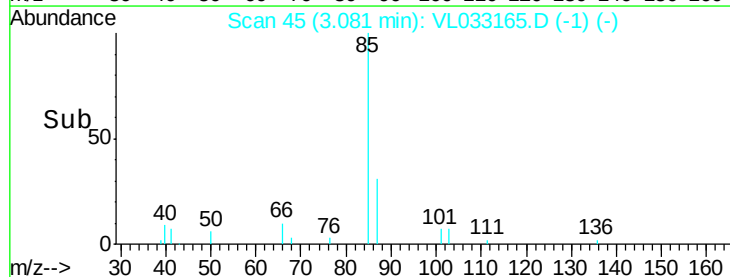
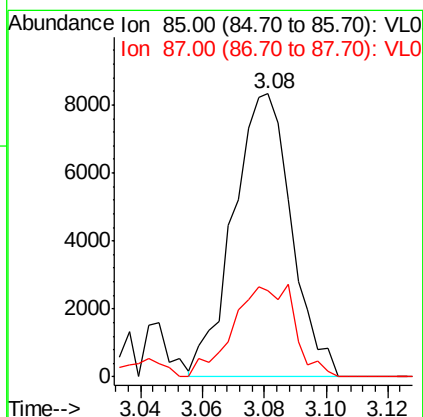
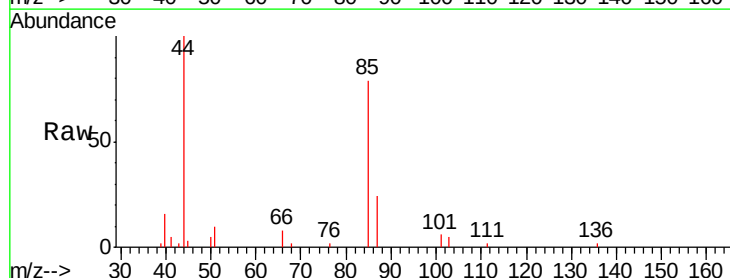
Instrument :
 MSVOA_L
 ClientSampleID :
 SSA1DL

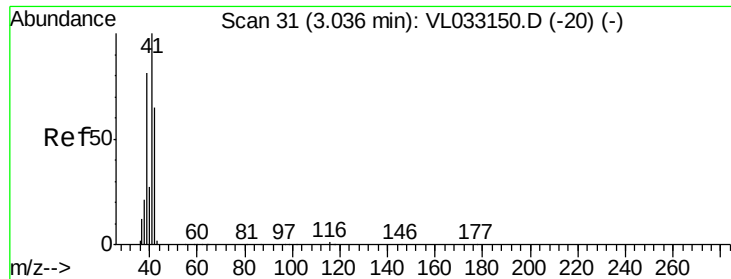
Tgt Ion: 49 Resp: 1361440
 Ion Ratio Lower Upper
 49 100
 128 46.0 23.2 69.5
 130 58.3 29.5 88.6



#2
 Dichlorodifluoromethane
 Concen: 0.054 ppbv
 RT: 3.08 min Scan# 45
 Delta R.T. 0.01 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

Tgt Ion: 85 Resp: 10906
 Ion Ratio Lower Upper
 85 100
 87 30.7 27.4 41.0





#9

Propene

Concen: 0.134 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :

MSVOA_L

ClientSampleId :

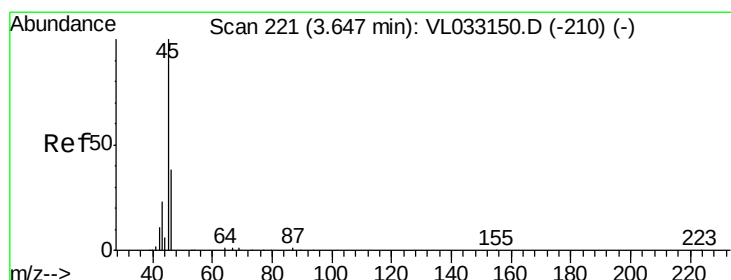
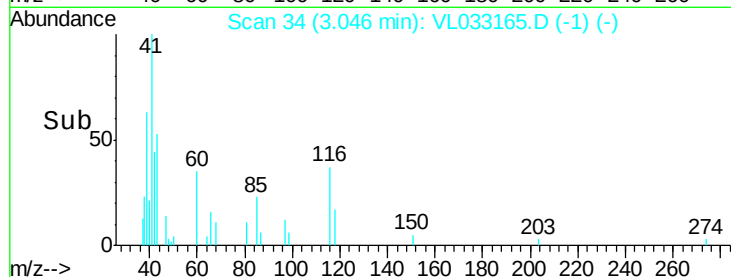
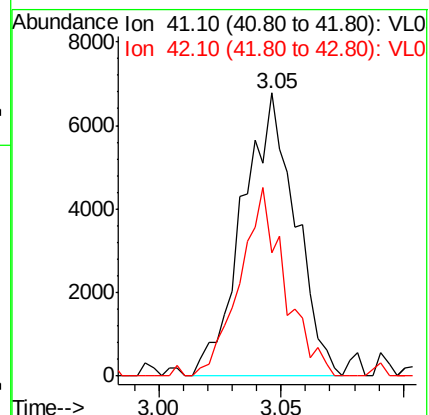
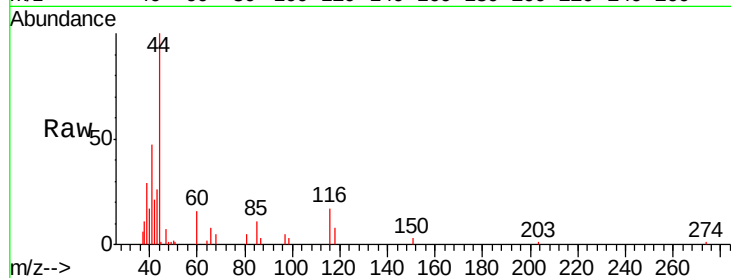
SSA1DL

Tgt Ion: 41 Resp: 10226

Ion Ratio Lower Upper

41 100

42 56.7 55.1 82.7



#13

Ethanol

Concen: 6.714 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033165.D

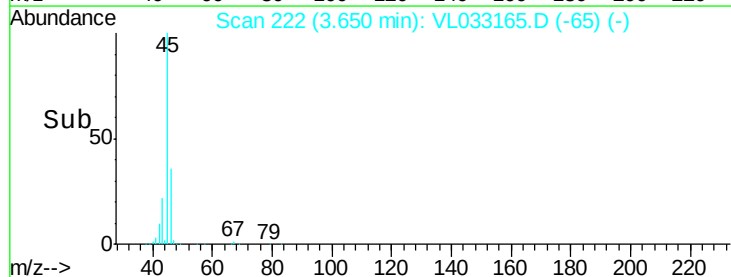
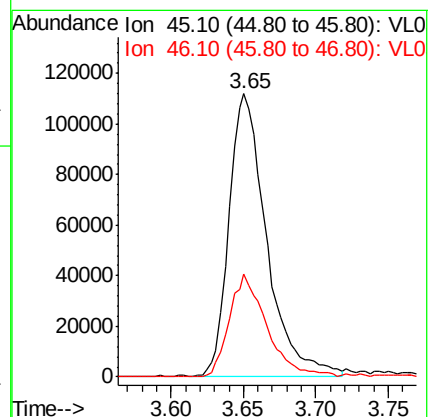
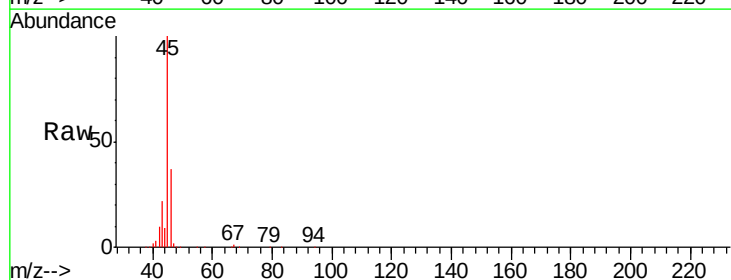
Acq: 4 Feb 2019 21:52

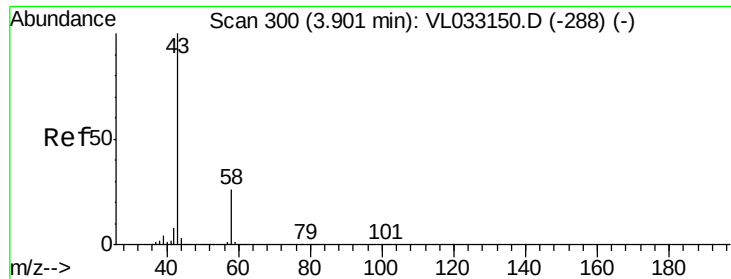
Tgt Ion: 45 Resp: 201646

Ion Ratio Lower Upper

45 100

46 36.5 14.0 56.2





#15

Acetone

Concen: 14.738 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :

MSVOA_L

ClientSampleId :

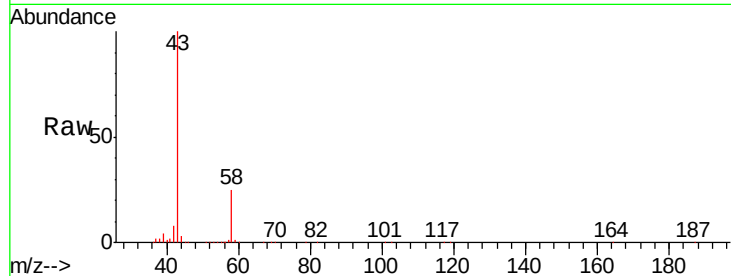
SSA1DL

Tgt Ion: 43 Resp: 2388928

Ion Ratio Lower Upper

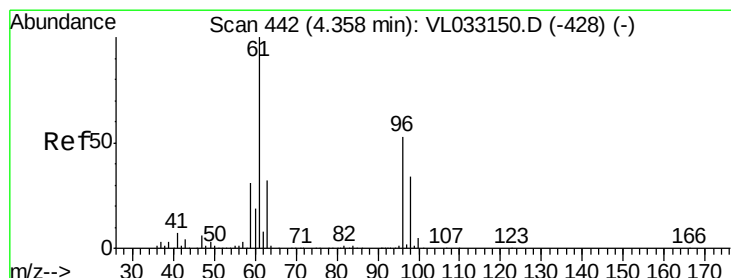
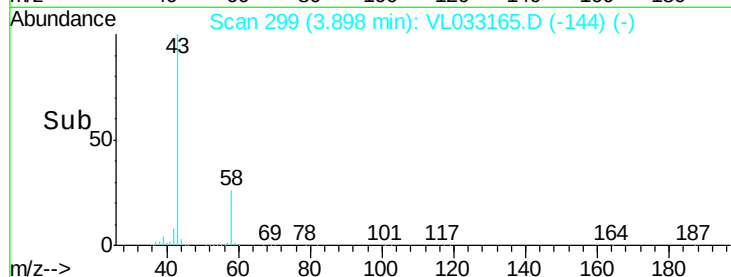
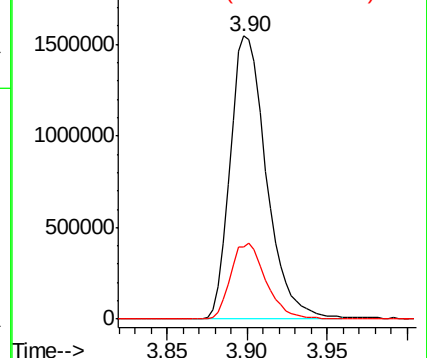
43 100

58 26.4 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.813 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL033165.D

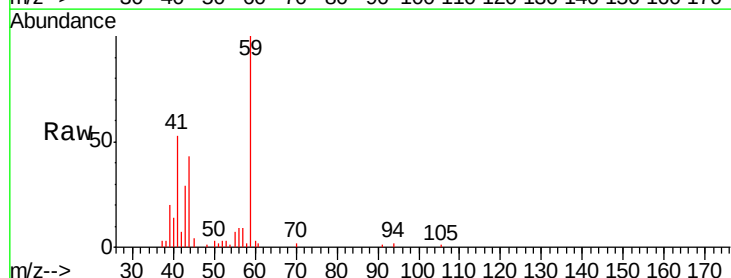
Acq: 4 Feb 2019 21:52

Tgt Ion: 59 Resp: 29100

Ion Ratio Lower Upper

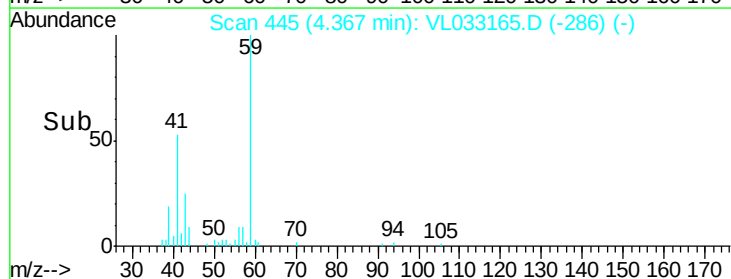
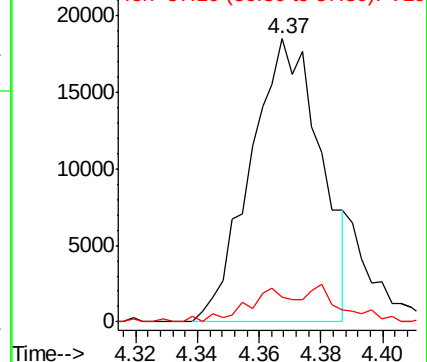
59 100

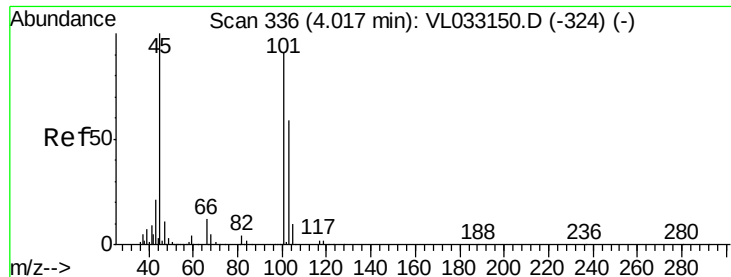
57 14.4 8.0 12.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 1.910 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :

MSVOA_L

ClientSampleId :

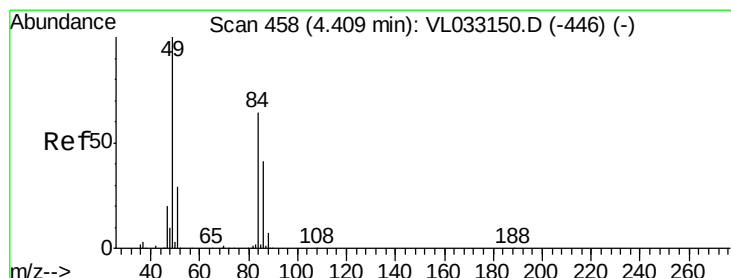
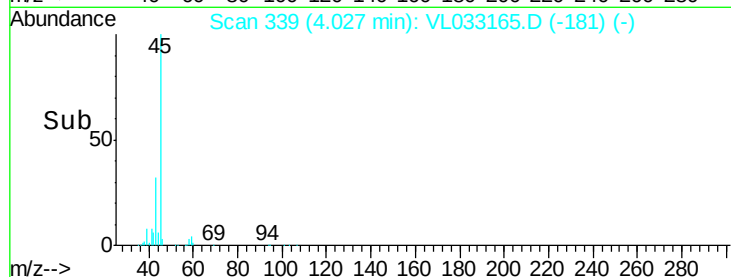
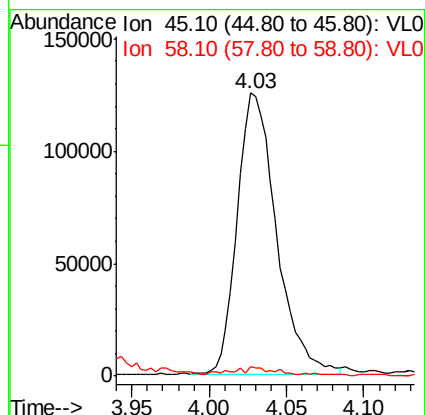
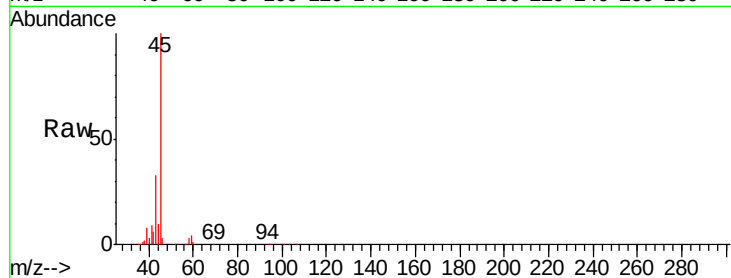
SSA1DL

Tgt Ion: 45 Resp: 219918

Ion Ratio Lower Upper

45 100

58 0.0 25.1 37.7#



#20

Methylene Chloride

Concen: 0.175 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Tgt Ion: 84 Resp: 9763

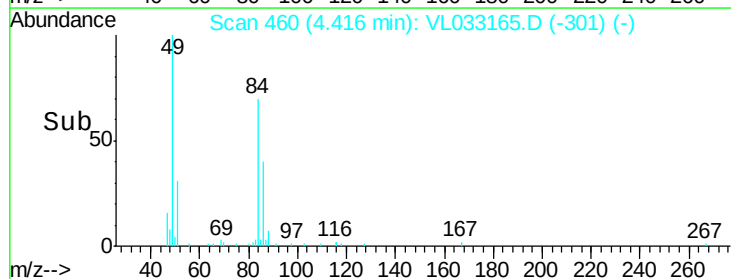
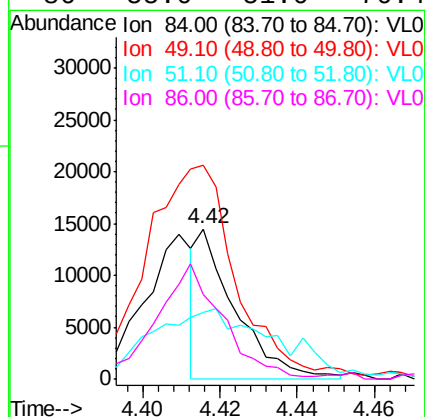
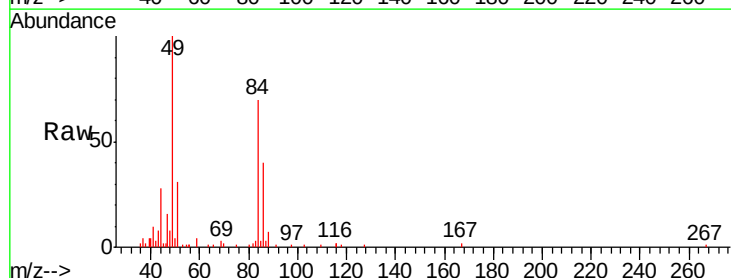
Ion Ratio Lower Upper

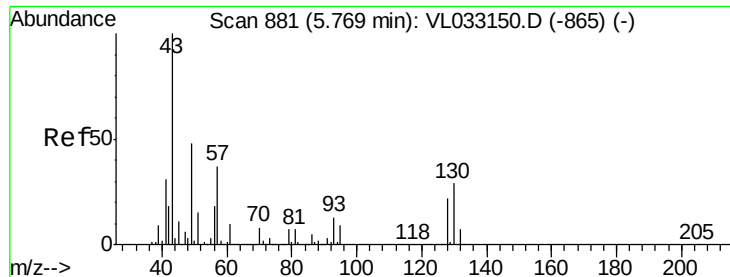
84 100

49 139.0 121.1 181.7

51 41.0 37.5 56.3

86 55.0 51.0 76.4





#25

Ethyl Acetate

Concen: 0.095 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.02 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :
MSVOA_L
ClientSampleId :
SSA1DL

Tgt Ion: 43 Resp: 31903

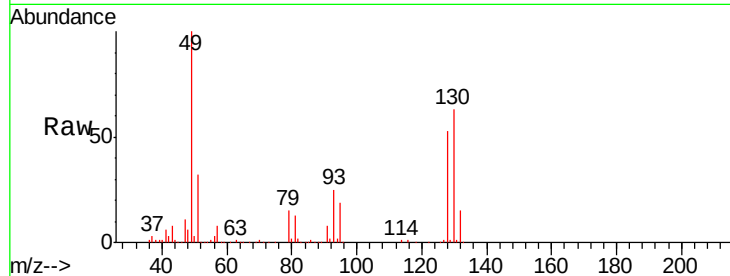
Ion Ratio Lower Upper

43 100

45 14.6 8.0 12.0#

61 6.3 7.4 11.2#

70 6.1 5.9 8.9

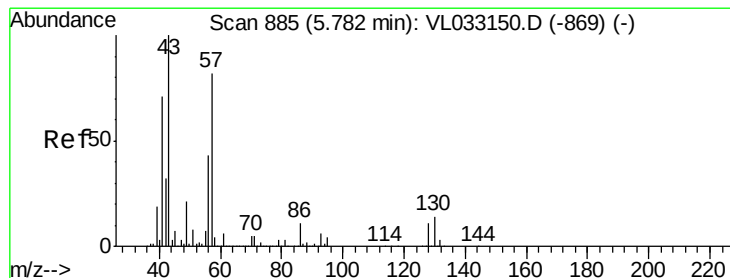
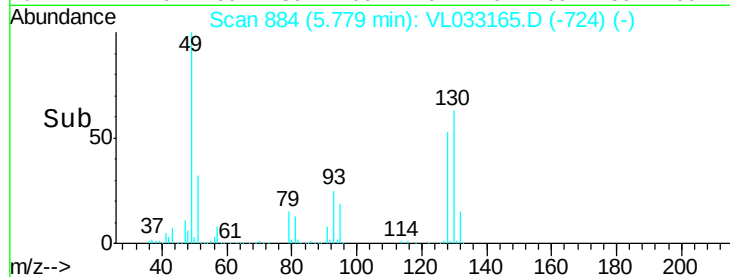
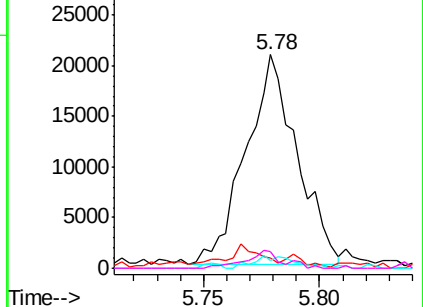


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.085 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Tgt Ion: 57 Resp: 13305

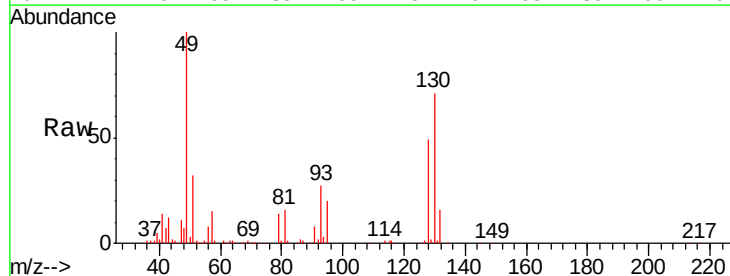
Ion Ratio Lower Upper

57 100

41 216.0 69.5 104.3#

43 0.0 175.5 263.3#

56 139.4 41.6 62.4#

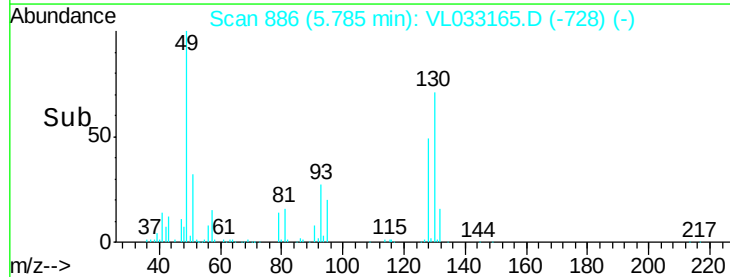
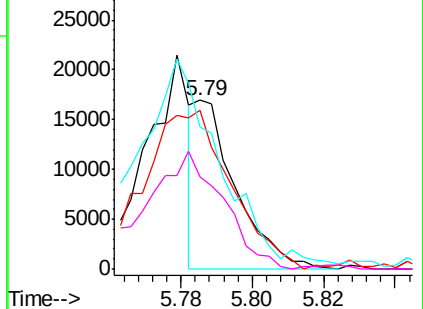


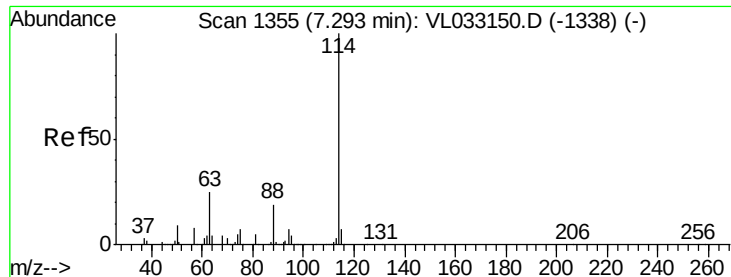
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

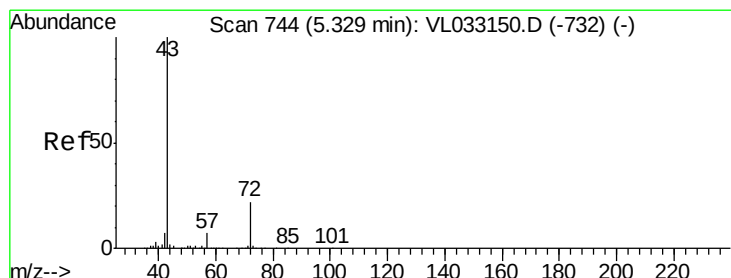
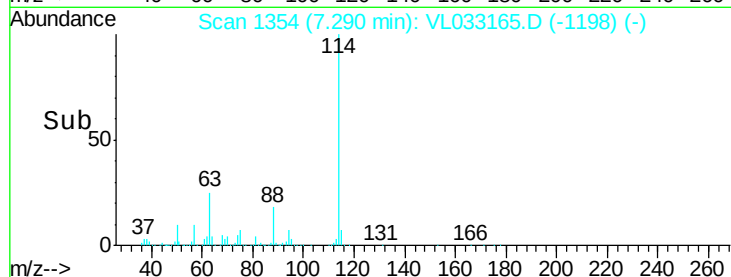
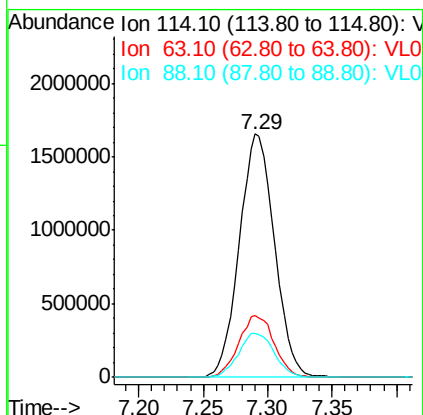
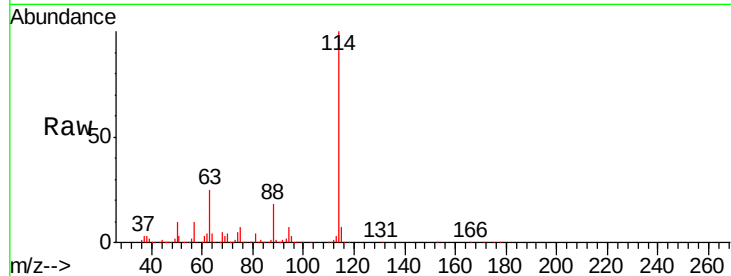




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.00 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

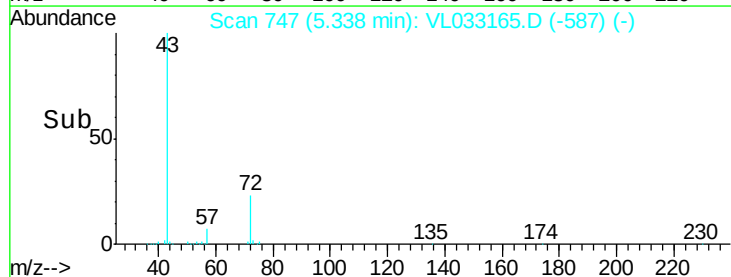
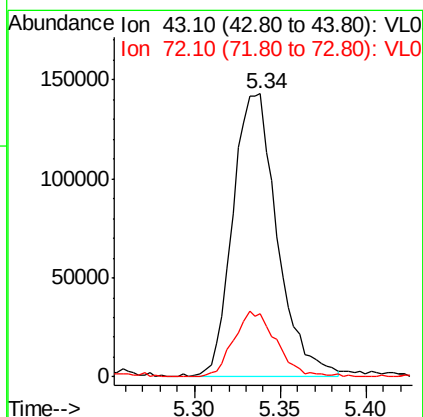
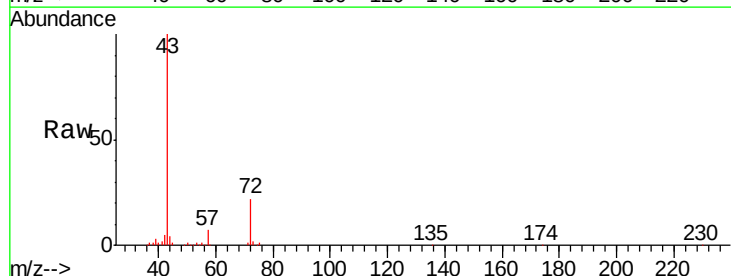
Instrument :
 MSVOA_L
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 SSA1DL

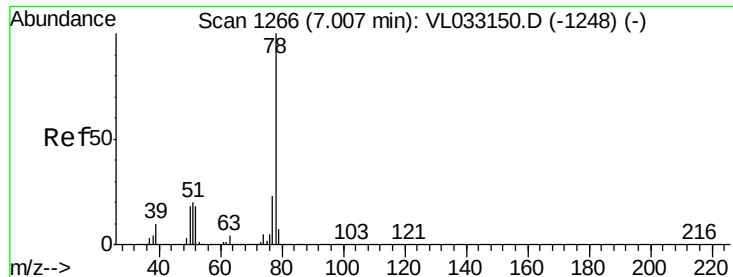
Tgt Ion: 114 Resp: 3145418
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.0 30.0
 88 18.4 14.4 21.6



#34
 2-Butanone
 Concen: 1.288 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.02 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

Tgt Ion: 43 Resp: 254798
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.9 26.9

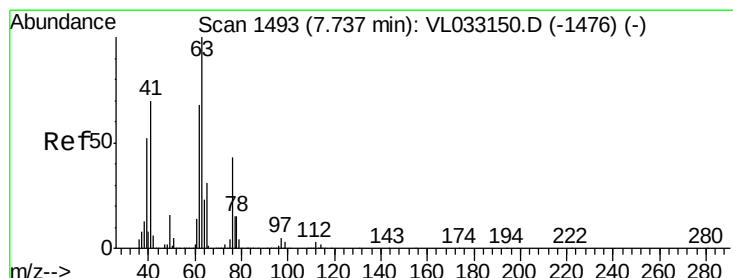
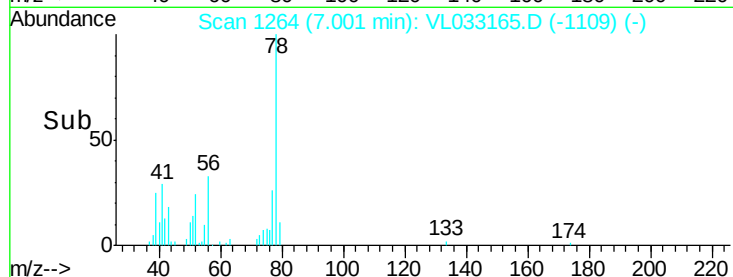
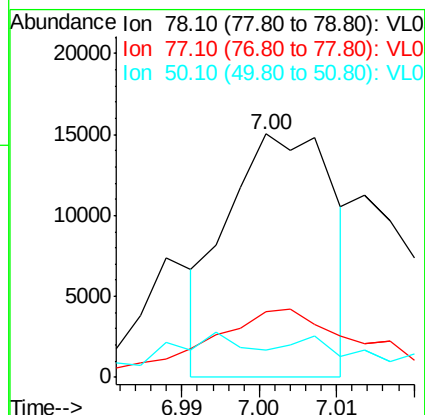
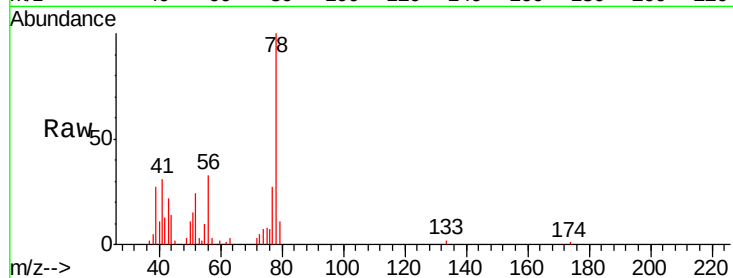




#36
Benzene
Concen: 0.045 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033165.D
Acq: 4 Feb 2019 21:52

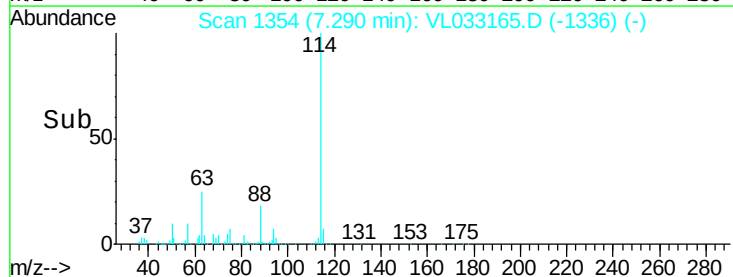
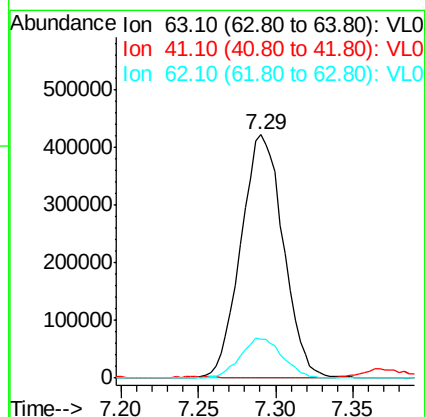
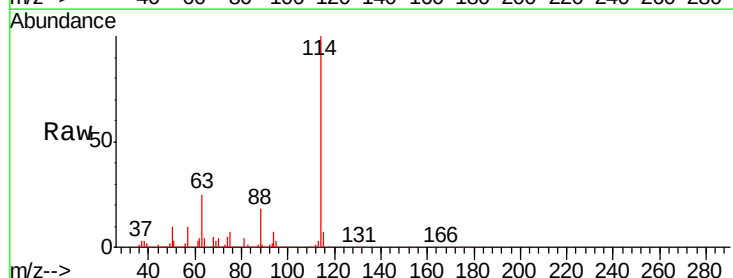
Instrument :
MSVOA_L
ClientSampleId :
SSA1DL

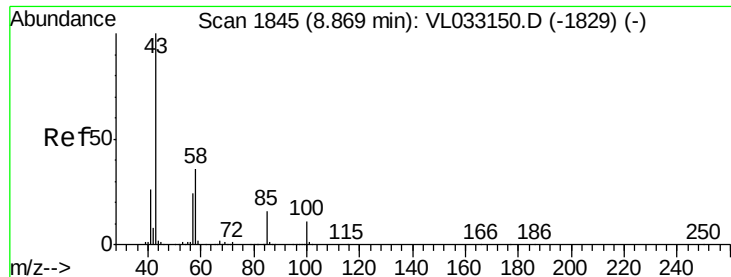
Tgt Ion: 78 Resp: 14343
Ion Ratio Lower Upper
78 100
77 27.6 17.8 26.6#
50 4.3 14.7 22.1#



#39
1,2-Dichloropropane
Concen: 6.610 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.44 min
Lab File: VL033165.D
Acq: 4 Feb 2019 21:52

Tgt Ion: 63 Resp: 806130
Ion Ratio Lower Upper
63 100
41 0.0 53.2 79.8#
62 16.0 54.4 81.6#

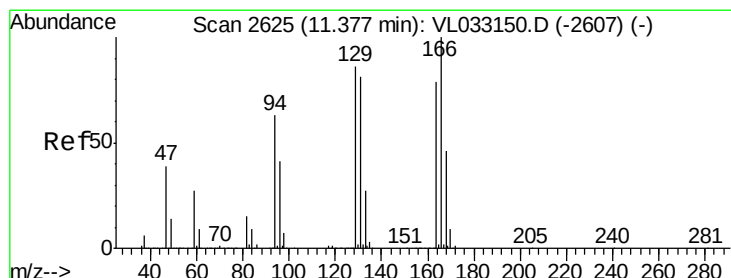
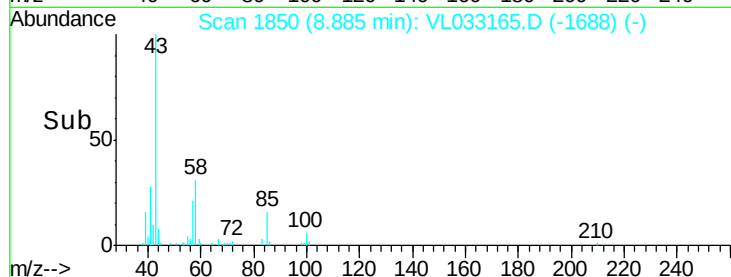
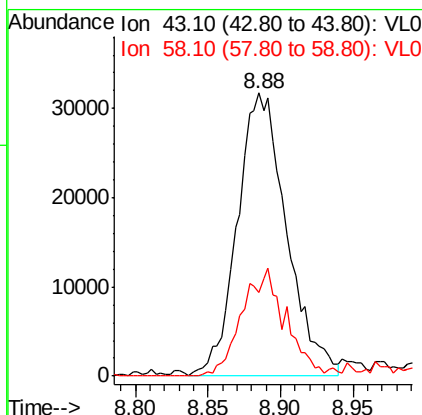
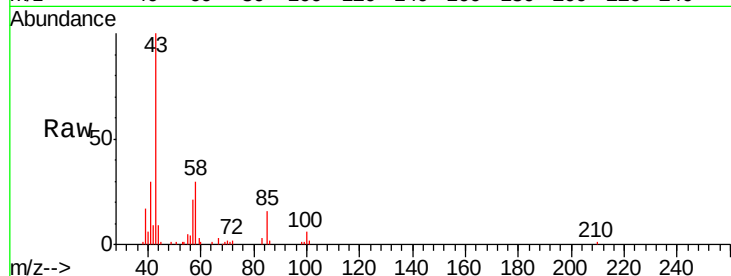




#50
 4-Methyl-2-Pentanone
 Concen: 0.210 ppbv
 RT: 8.88 min Scan# 1850
 Delta R.T. 0.02 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

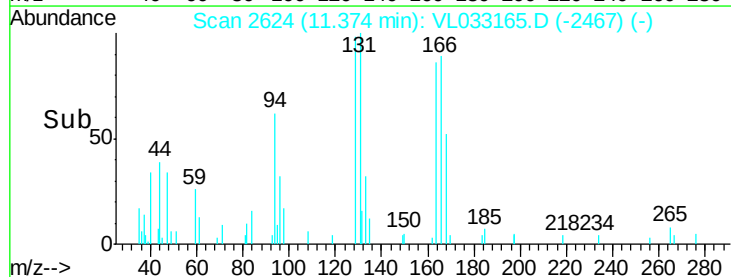
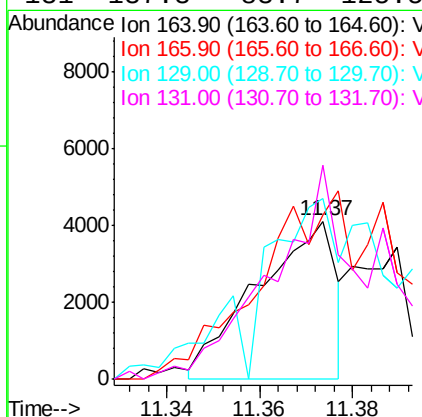
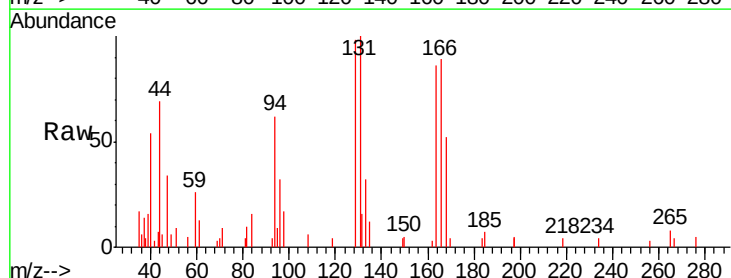
Instrument :
 MSVOA_L
 ClientSampleId :
 SSA1DL

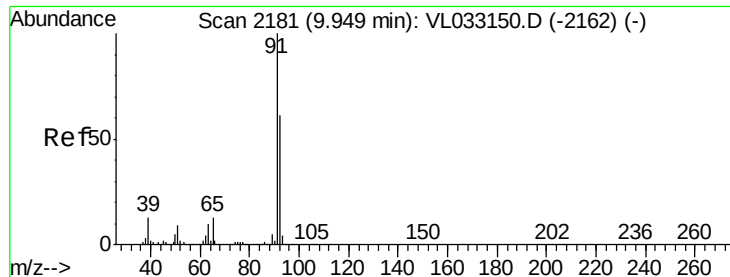
Tgt Ion: 43 Resp: 75111
 Ion Ratio Lower Upper
 43 100
 58 34.1 28.7 43.1



#52
 Tetrachloroethene
 Concen: 0.044 ppbv
 RT: 11.37 min Scan# 2624
 Delta R.T. 0.01 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

Tgt Ion: 164 Resp: 4828
 Ion Ratio Lower Upper
 164 100
 166 96.8 98.6 148.0#
 129 96.7 86.3 129.5
 131 137.3 83.7 125.5#





#53

Toluene

Concen: 0.670 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :

MSVOA_L

ClientSampleId :

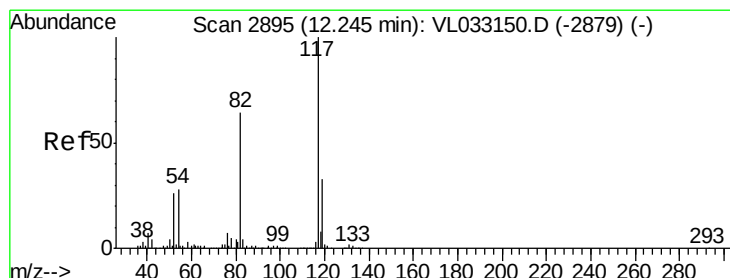
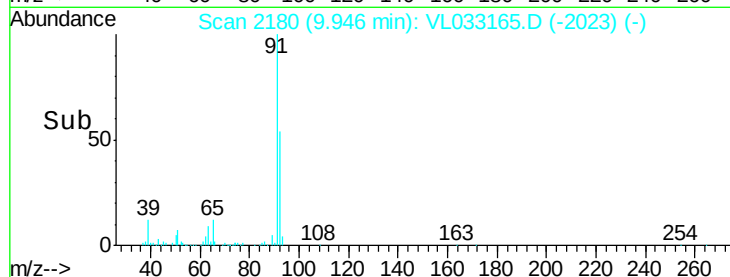
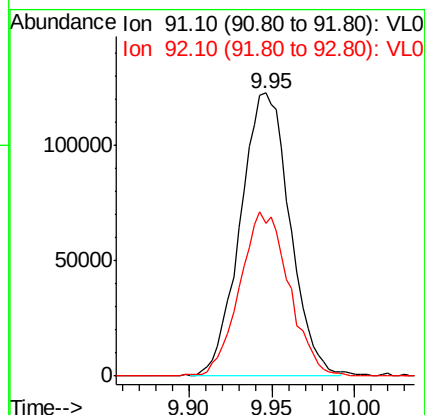
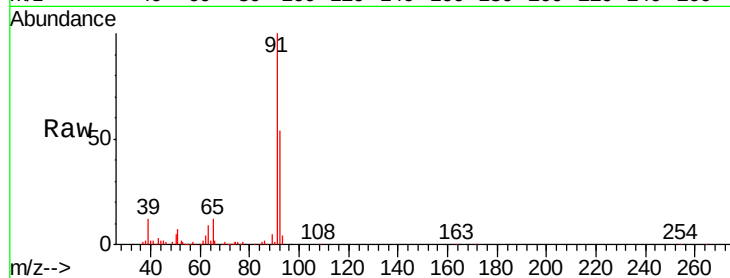
SSA1DL

Tgt Ion: 91 Resp: 253061

Ion Ratio Lower Upper

91 100

92 58.7 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

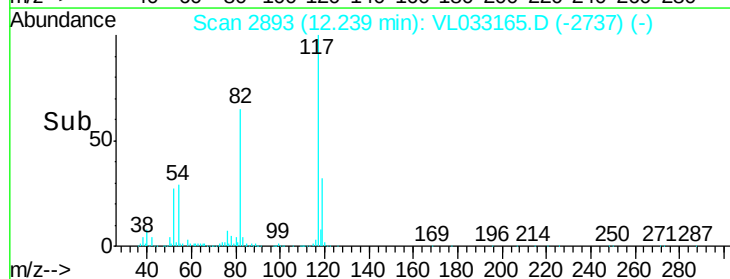
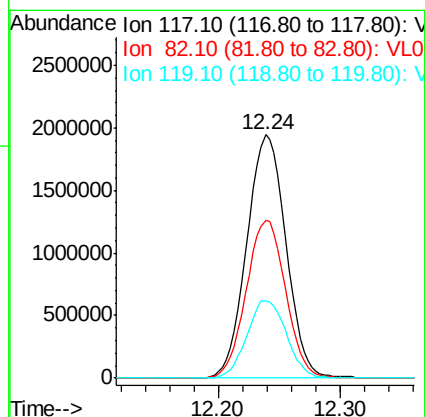
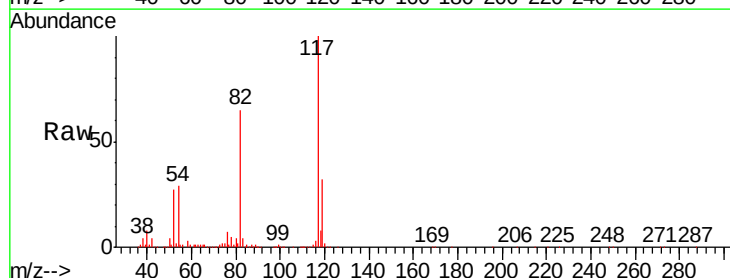
Tgt Ion: 117 Resp: 4305589

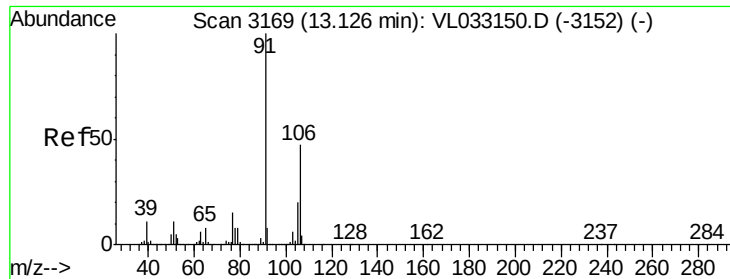
Ion Ratio Lower Upper

117 100

82 65.7 49.3 73.9

119 32.4 27.1 40.7

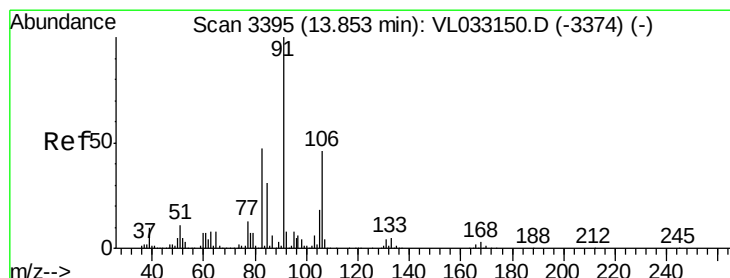
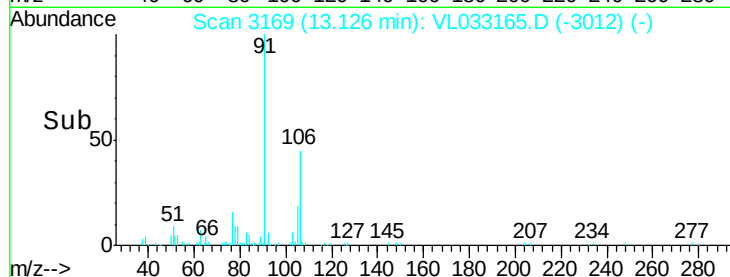
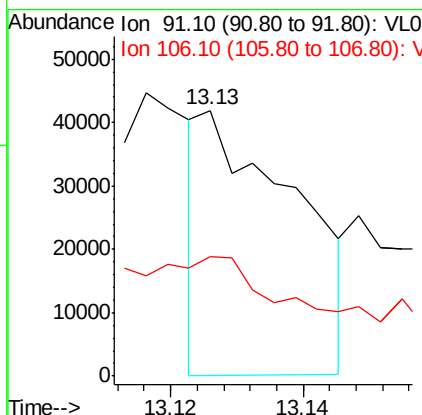
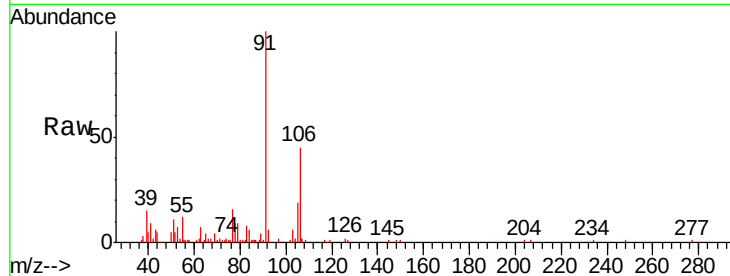




#59
m/p-Xylene
Concen: 0.074 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VL033165.D
Acq: 4 Feb 2019 21:52

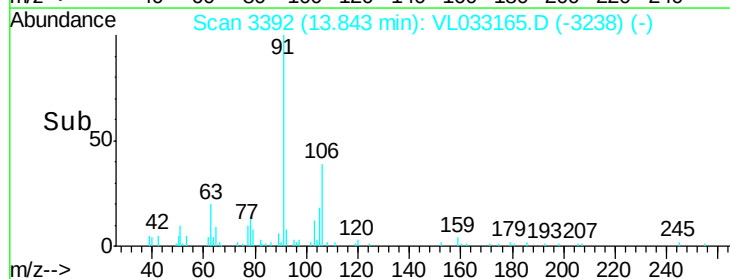
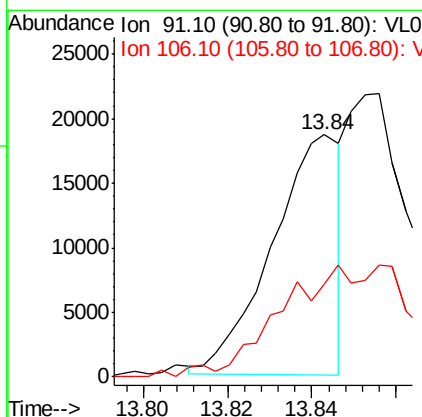
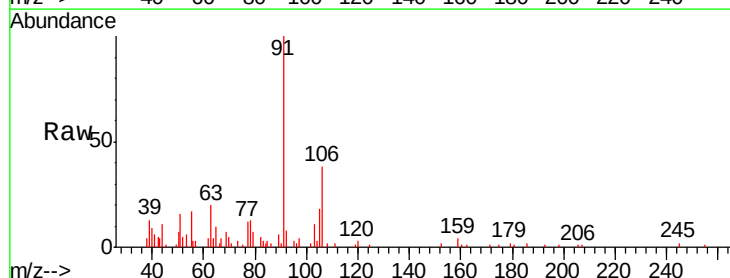
Instrument :
MSVOA_L
ClientSampleId :
SSA1DL

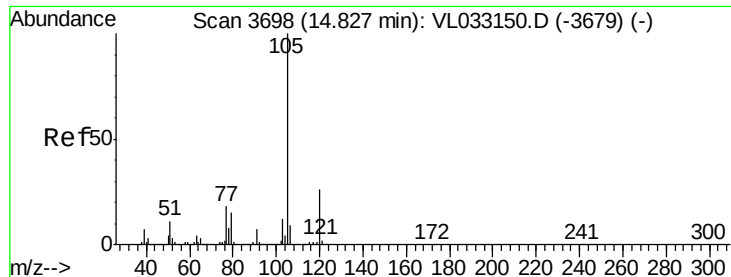
Tgt Ion: 91 Resp: 41226
Ion Ratio Lower Upper
91 100
106 140.2 37.6 56.4#



#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.00 min
Lab File: VL033165.D
Acq: 4 Feb 2019 21:52

Tgt Ion: 91 Resp: 20926
Ion Ratio Lower Upper
91 100
106 93.3 23.2 69.5#





#62

Isopropylbenzene

Concen: 0.220 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

Instrument :

MSVOA_L

ClientSampleId :

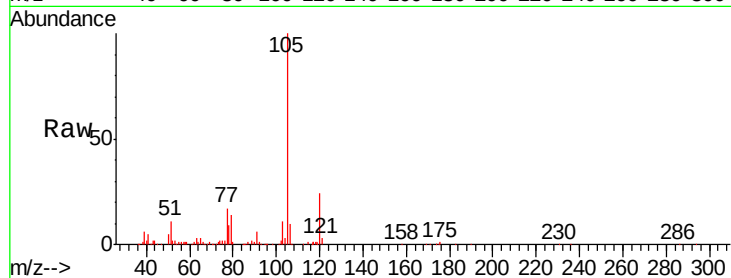
SSA1DL

Tgt Ion: 105 Resp: 160646

Ion Ratio Lower Upper

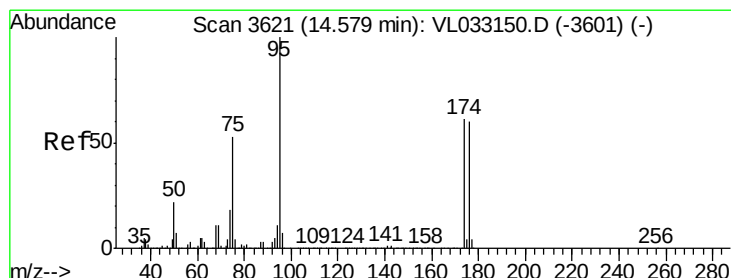
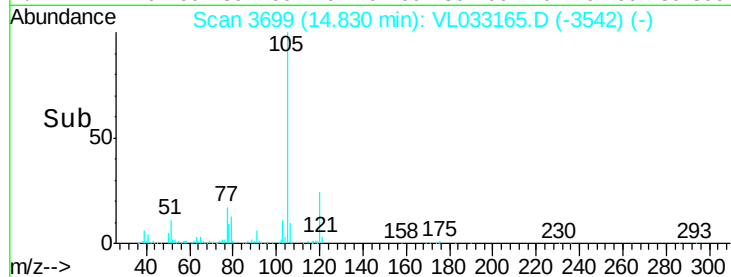
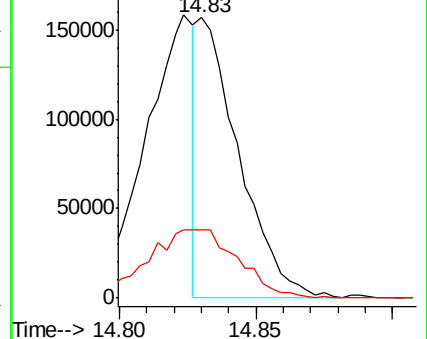
105 100

120 0.0 20.8 31.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.661 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL033165.D

Acq: 4 Feb 2019 21:52

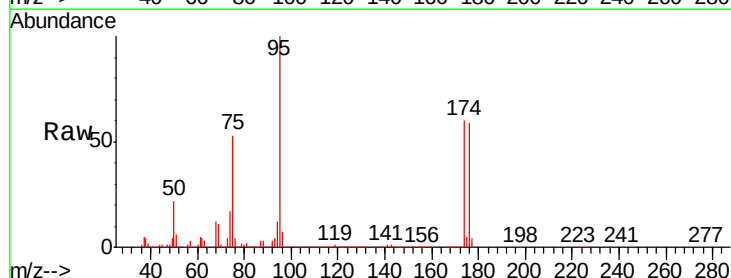
Tgt Ion: 95 Resp: 3420879

Ion Ratio Lower Upper

95 100

174 60.2 49.2 73.8

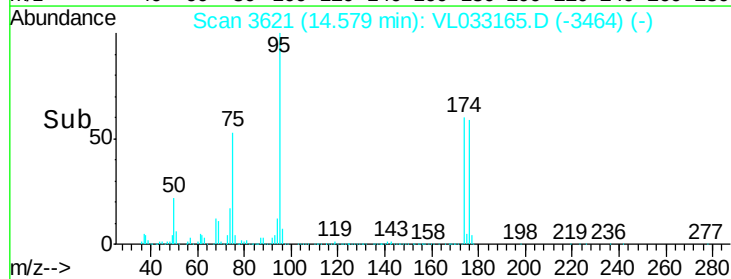
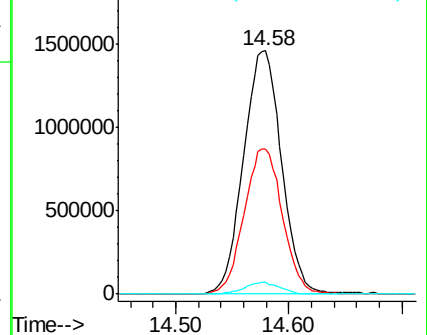
175 4.5 3.7 5.5

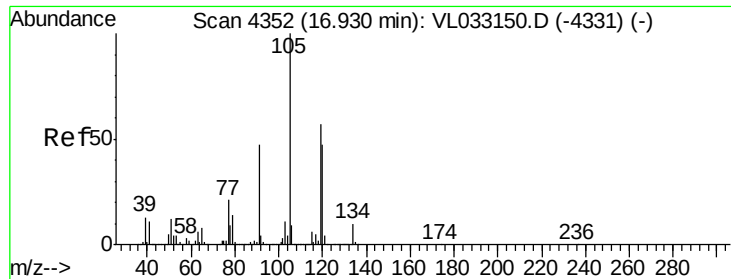


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.048 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL033165.D
 Acq: 4 Feb 2019 21:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SSA1DL

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.8	38.2	57.4#
91	8.5	35.0	52.4#
77	29.8	15.8	23.6#

