

Data File : VL032596.D
Acq On : 4 Oct 2018 11:01
Operator : SY/AP
Sample : J5094-08DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

Quant Time: Oct 04 11:28:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1204409	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2732432	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2996610	10.00	ppbv	-0.03

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2142680 9.48 ppbv -0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 94.80%

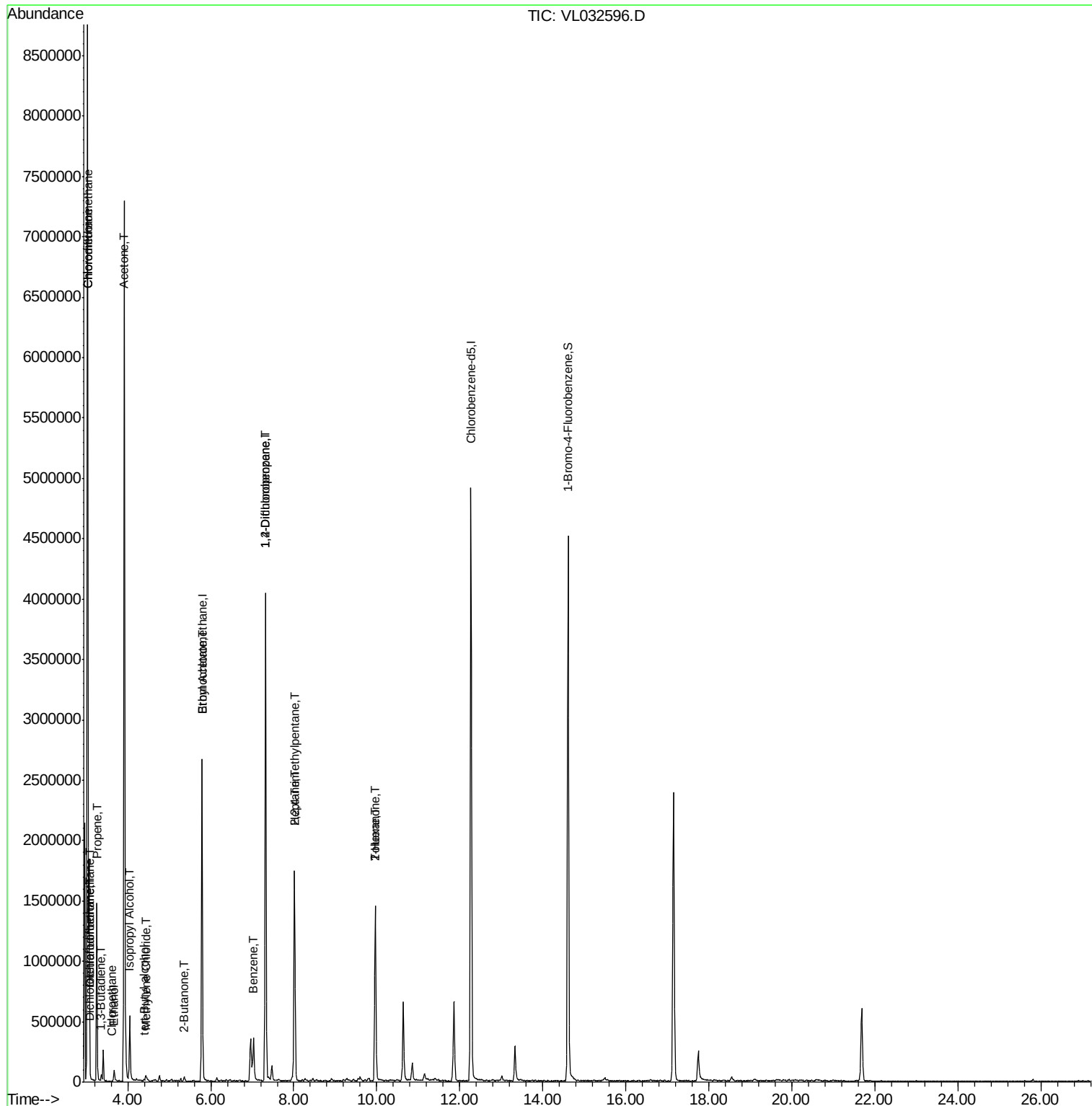
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	6208	0.056	ppbv	95
3) Chlorodifluoromethane	3.03	51	9790550	97.751	ppbv #	89
4) Chloromethane	3.03	50	712518	12.200	ppbv #	73
7) Chloroethane	3.62	64	2161	0.103	ppbv #	49
8) Dichlorotetrafluoroethane	3.10	85	3699	0.030	ppbv #	23
9) Propene	3.25	41	318686	7.333	ppbv	88
10) Heptane	8.01	43	293249	1.840	ppbv #	1
13) Ethanol	3.67	45	86334	6.609	ppbv	93
15) Acetone	3.91	43	7755177	73.356	ppbv	97
16) 1,3-Butadiene	3.36	39	12592	0.294	ppbv #	59
17) tert-Butyl alcohol	4.38	59	2166	0.163	ppbv #	100
19) Isopropyl Alcohol	4.04	45	500103	6.791	ppbv #	93
20) Methylene Chloride	4.43	84	8574	0.167	ppbv	92
25) Ethyl Acetate	5.79	43	26502	0.103	ppbv #	62
34) 2-Butanone	5.36	43	42839	0.263	ppbv	100
36) Benzene	7.03	78	245844	1.113	ppbv	97
39) 1,2-Dichloropropane	7.32	63	743883	7.475	ppbv #	25
44) 2,2,4-Trimethylpentane	8.02	57	1528203	3.541	ppbv	95
51) 2-Hexanone	9.96	43	1237694	5.851	ppbv #	30
53) Toluene	9.97	91	67203	0.250	ppbv	95

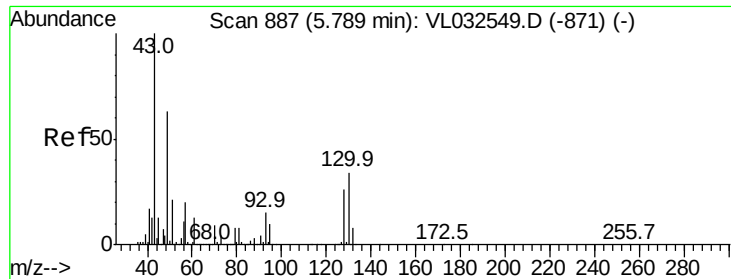
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032596.D

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ClientSampleId :

FSS-1DL

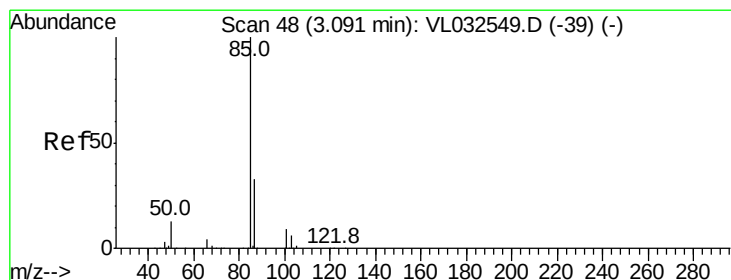
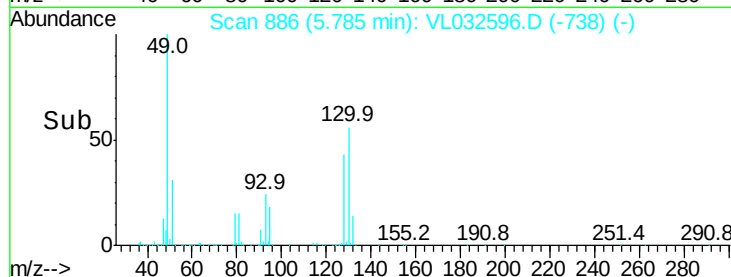
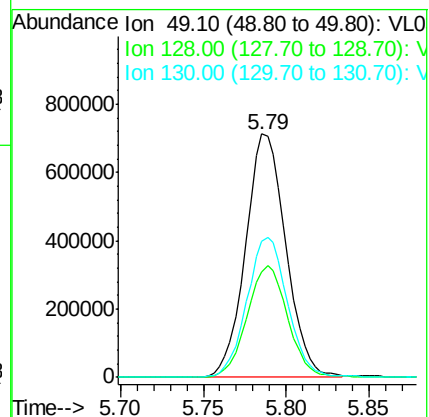
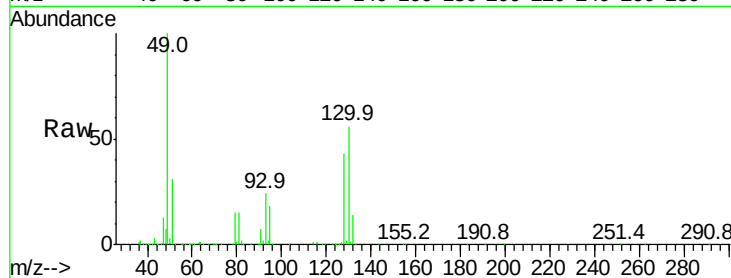
Tgt Ion: 49 Resp: 1204409

Ion Ratio Lower Upper

49 100

128 46.7 20.7 62.1

130 58.7 26.6 79.7



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032596.D

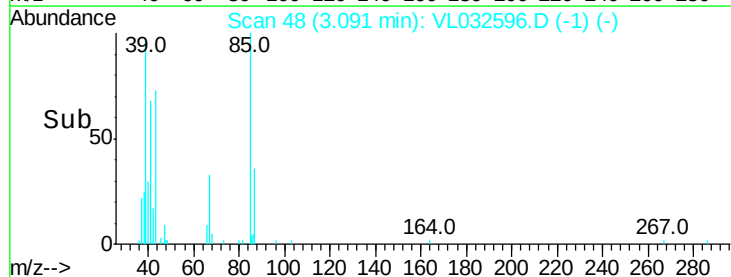
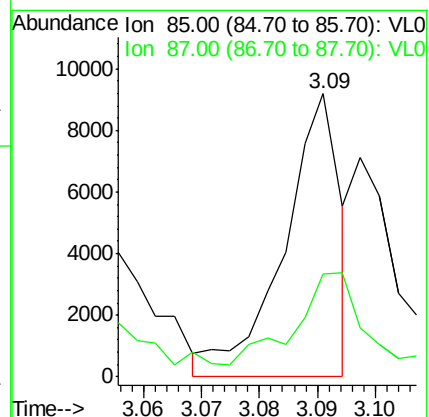
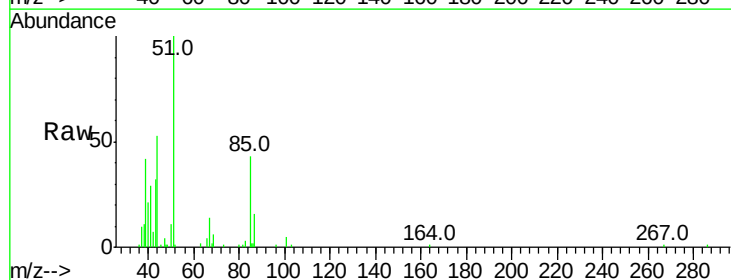
Acq: 4 Oct 2018 11:01

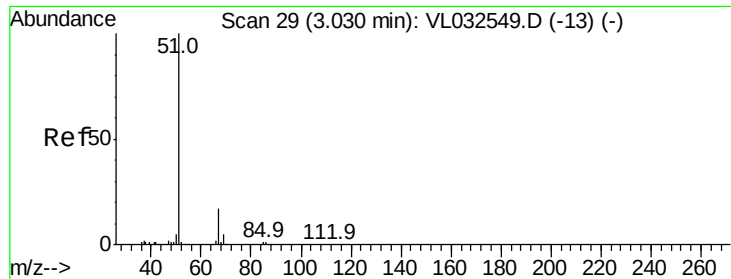
Tgt Ion: 85 Resp: 6208

Ion Ratio Lower Upper

85 100

87 30.0 26.2 39.4

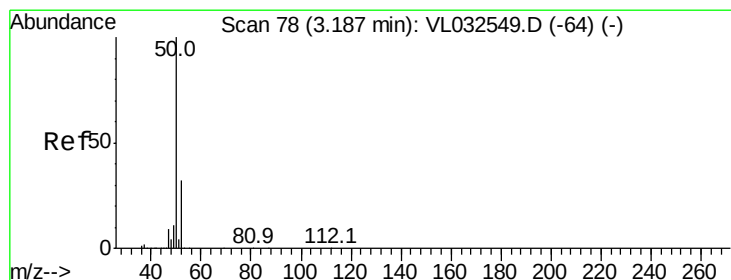
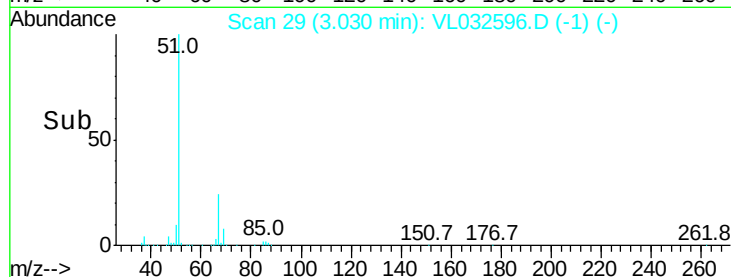
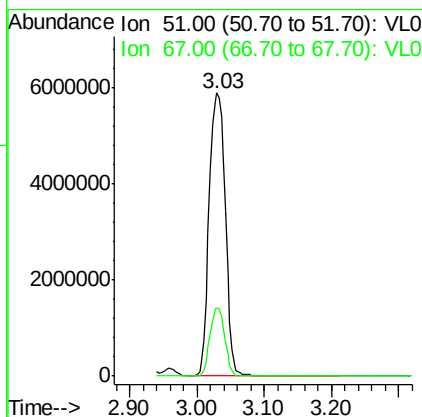
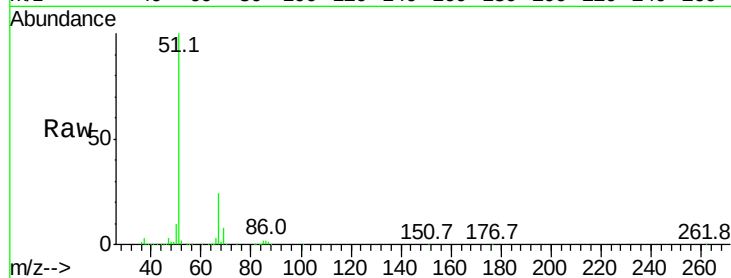




#3
Chlorodifluoromethane
Concen: 97.751 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

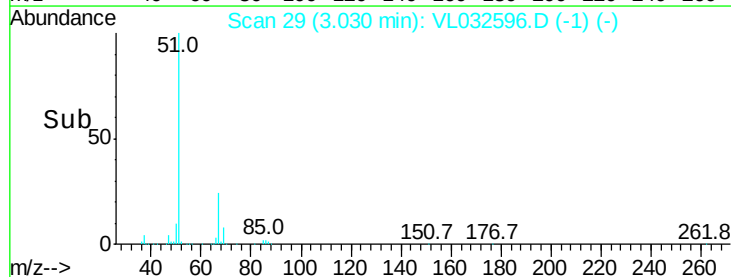
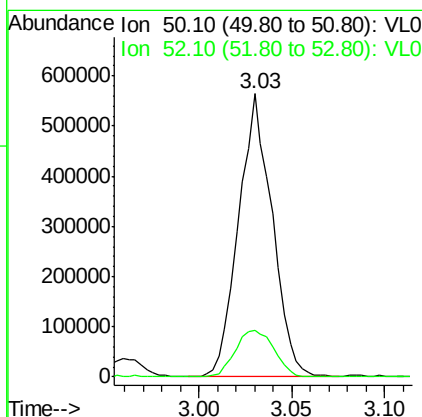
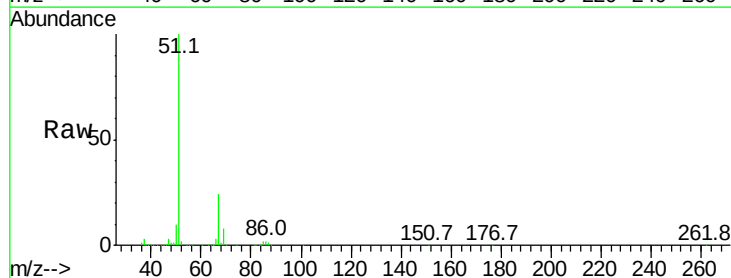
Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

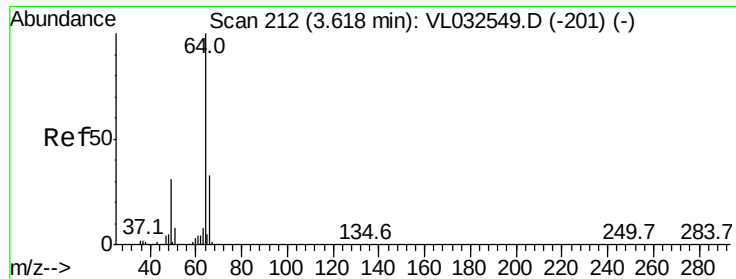
Tgt Ion: 51 Resp: 9790550
Ion Ratio Lower Upper
51 100
67 22.3 13.8 20.8#



#4
Chloromethane
Concen: 12.200 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.17 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Tgt Ion: 50 Resp: 712518
Ion Ratio Lower Upper
50 100
52 16.7 25.6 38.4#





#7

Chloroethane

Concen: 0.103 ppbv

RT: 3.62 min Scan# 213

Delta R.T. -0.01 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

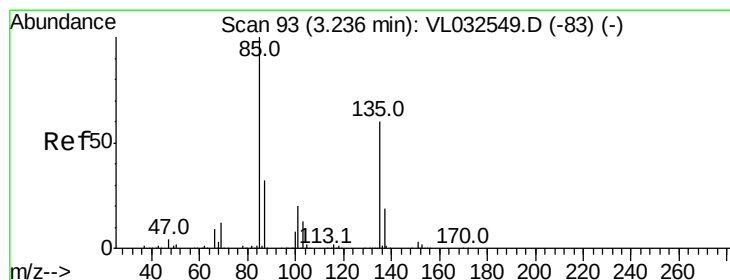
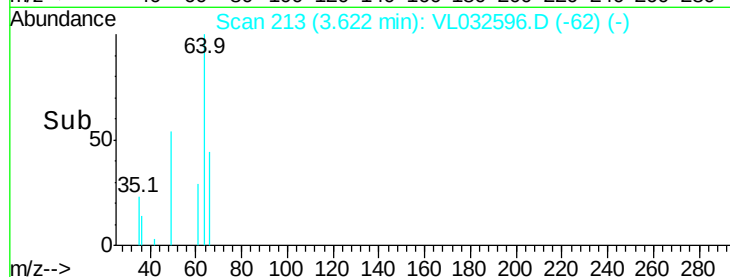
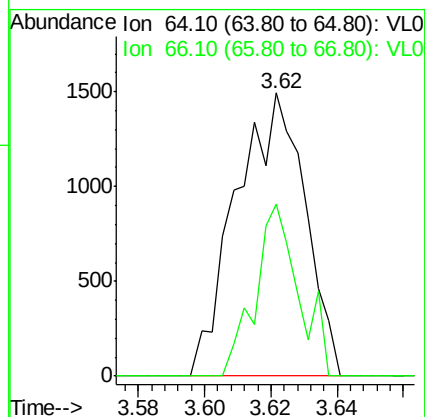
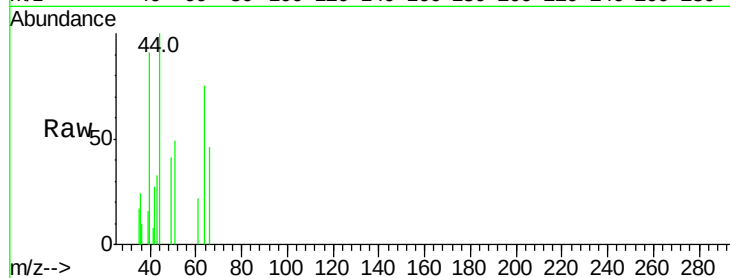
FSS-1DL

Tgt Ion: 64 Resp: 2161

Ion Ratio Lower Upper

64 100

66 60.9 25.8 38.6#



#8

Dichlorotetrafluoroethane

Concen: 0.030 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.16 min

Lab File: VL032596.D

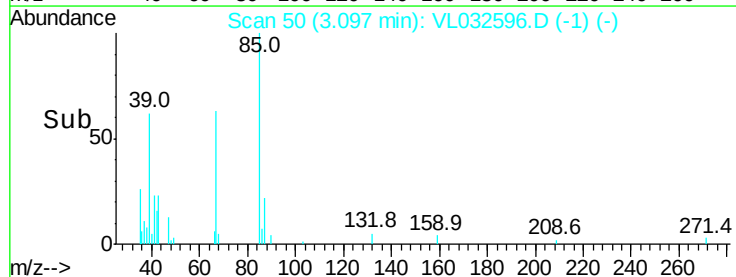
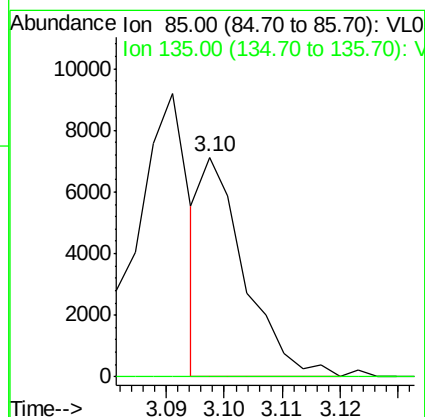
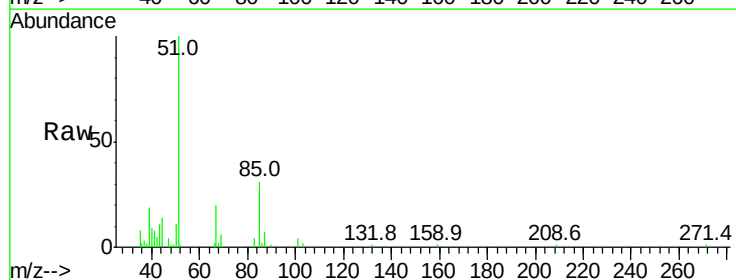
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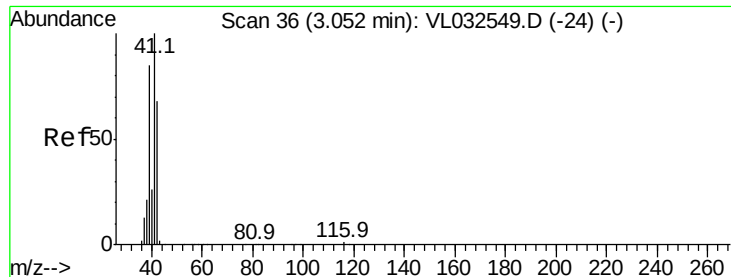
Tgt Ion: 85 Resp: 3699

Ion Ratio Lower Upper

85 100

135 1.8 48.6 72.8#





#9

Propene

Concen: 7.333 ppbv

RT: 3.25 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

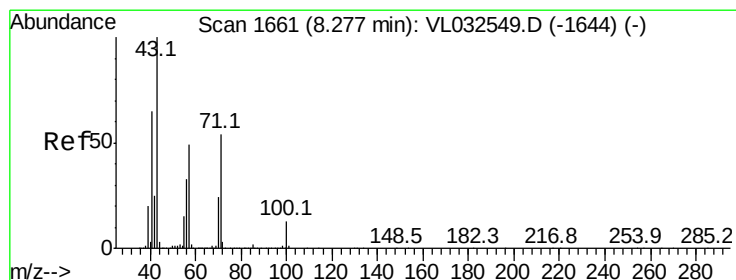
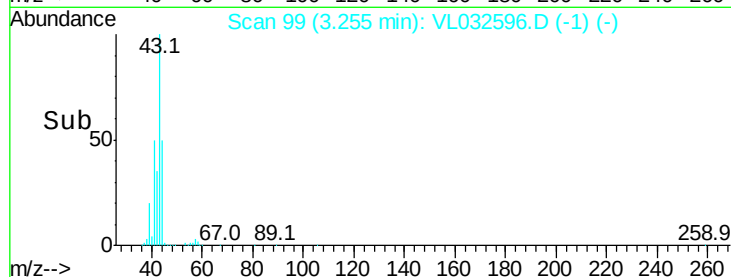
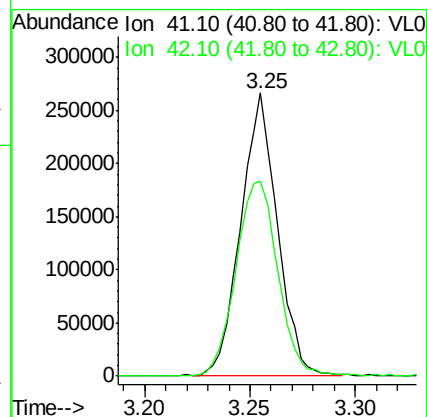
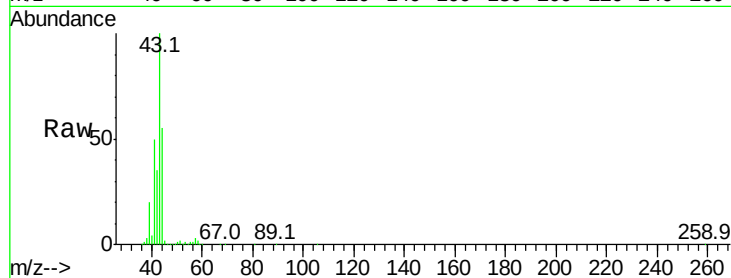
FSS-1DL

Tgt Ion: 41 Resp: 318686

Ion Ratio Lower Upper

41 100

42 80.6 56.6 84.8



#10

Heptane

Concen: 1.840 ppbv

RT: 8.01 min Scan# 1579

Delta R.T. -0.29 min

Lab File: VL032596.D

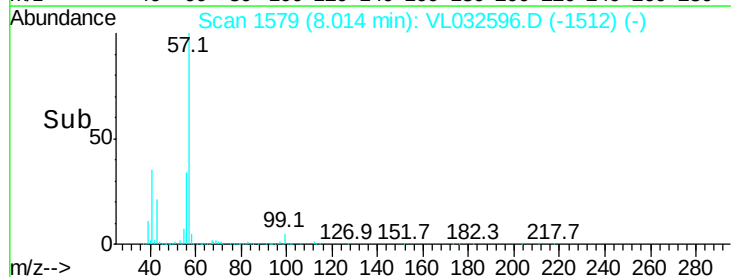
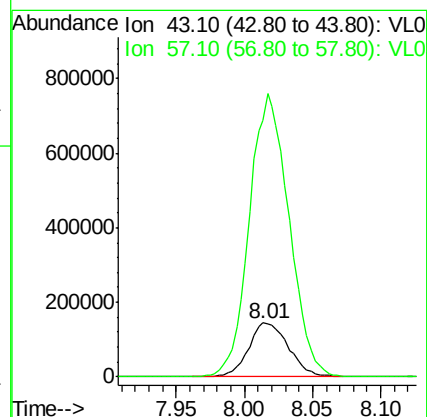
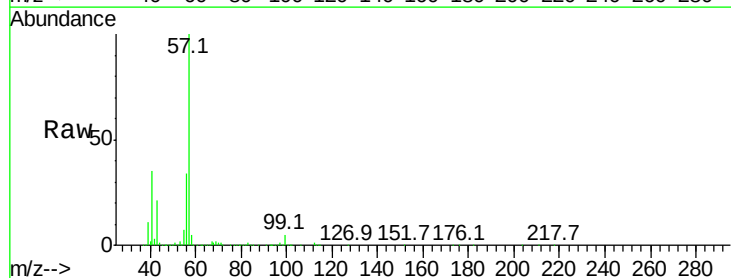
Acq: 4 Oct 2018 11:01

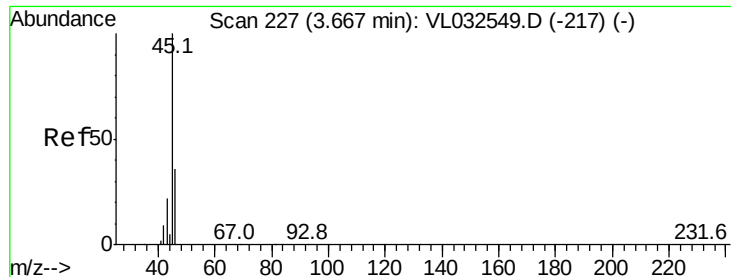
Tgt Ion: 43 Resp: 293249

Ion Ratio Lower Upper

43 100

57 523.6 39.6 59.4#

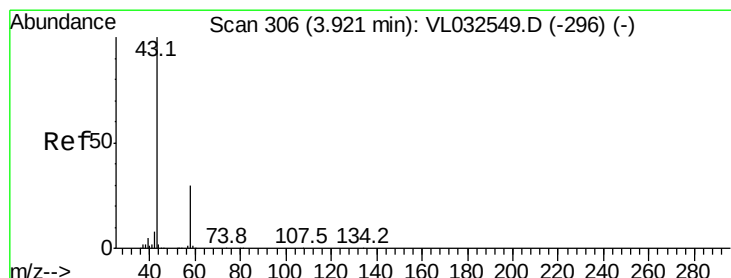
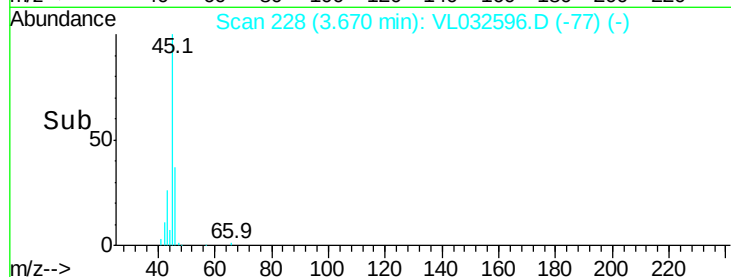
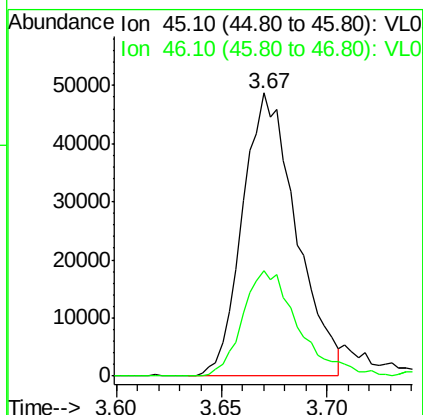
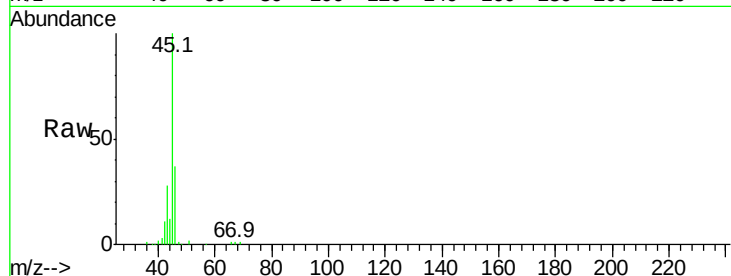




#13
Ethanol
Concen: 6.609 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

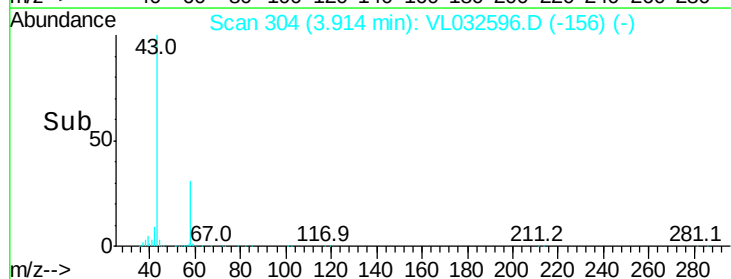
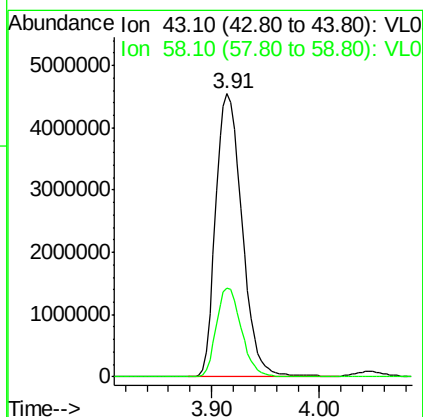
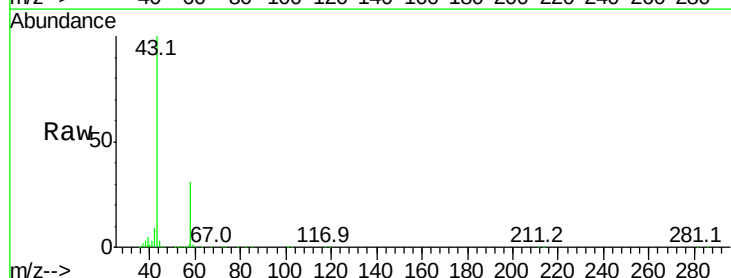
Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

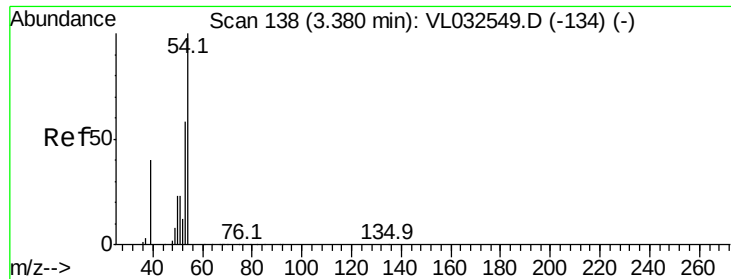
Tgt Ion: 45 Resp: 86334
Ion Ratio Lower Upper
45 100
46 39.4 14.2 56.8



#15
Acetone
Concen: 73.356 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Tgt Ion: 43 Resp: 7755177
Ion Ratio Lower Upper
43 100
58 30.0 22.6 33.8

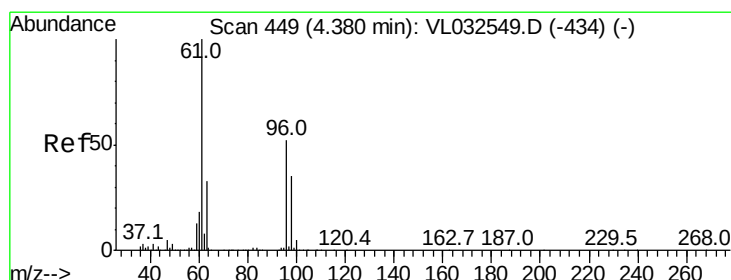
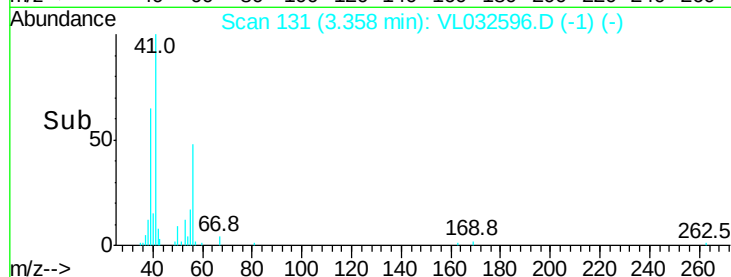
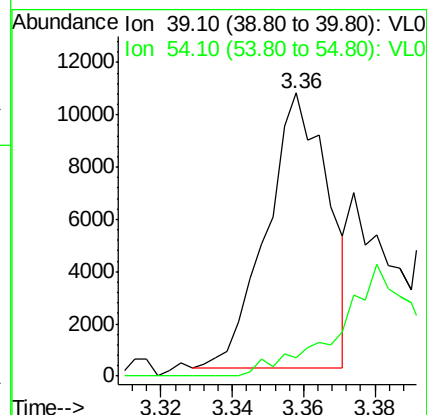
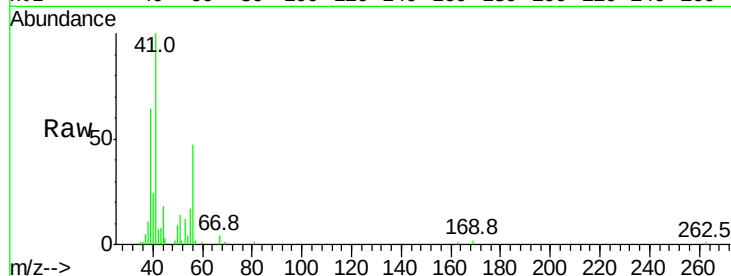




#16
1,3-Butadiene
Concen: 0.294 ppbv
RT: 3.36 min Scan# 131
Delta R.T. -0.04 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

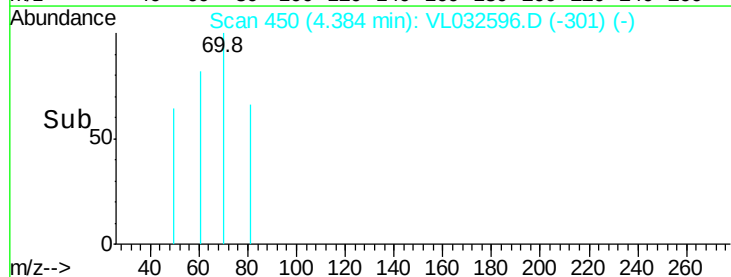
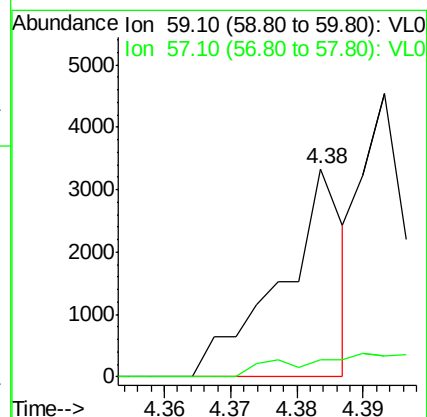
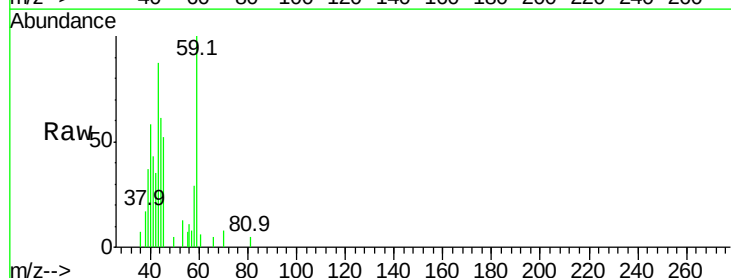
Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

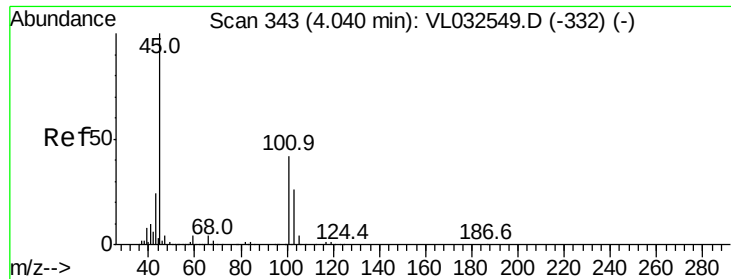
Tgt Ion: 39 Resp: 12592
Ion Ratio Lower Upper
39 100
54 59.9 80.8 121.2#



#17
tert-Butyl alcohol
Concen: 0.163 ppbv
RT: 4.38 min Scan# 450
Delta R.T. -0.02 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Tgt Ion: 59 Resp: 2166
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0





#19

Isopropyl Alcohol

Concen: 6.791 ppbv

RT: 4.04 min Scan# 344

Delta R.T. -0.02 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

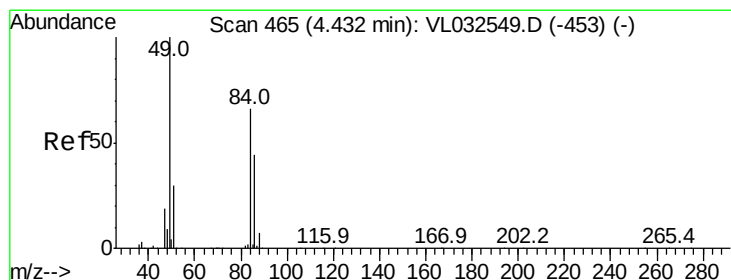
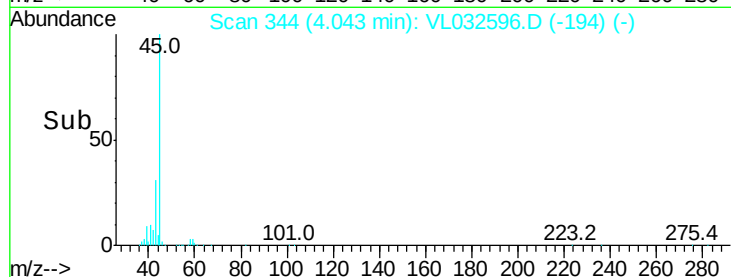
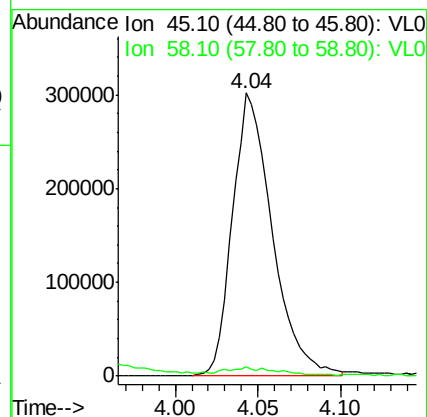
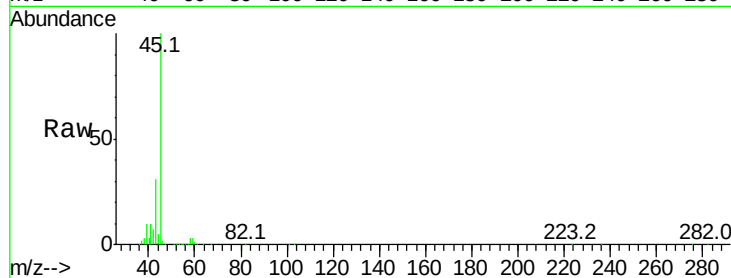
FSS-1DL

Tgt Ion: 45 Resp: 500103

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.167 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Tgt Ion: 84 Resp: 8574

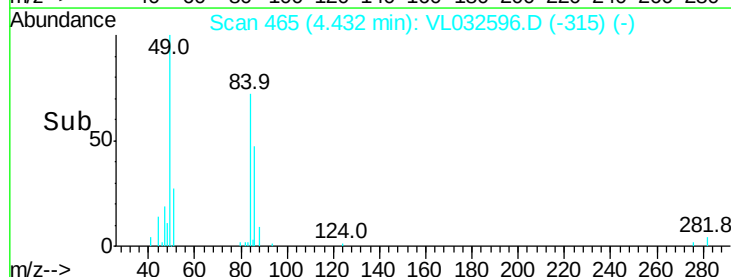
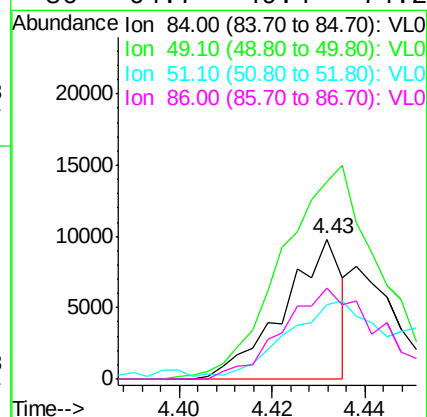
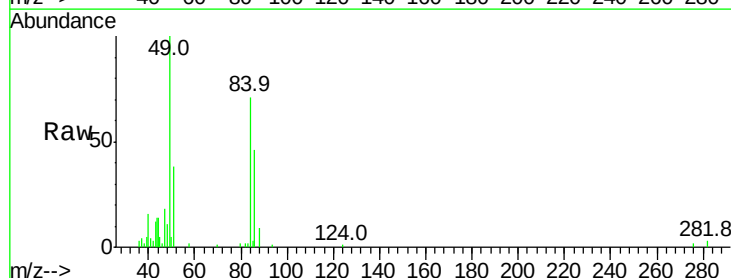
Ion Ratio Lower Upper

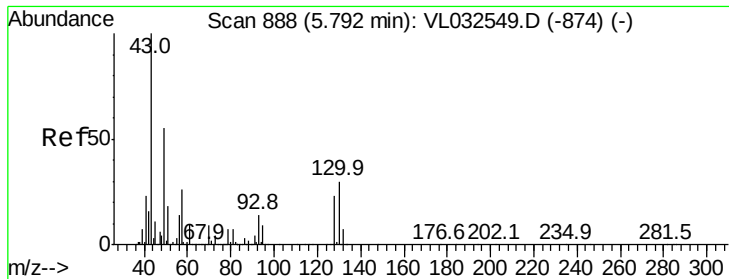
84 100

49 138.5 119.1 178.7

51 50.6 35.2 52.8

86 64.7 49.4 74.2





#25

Ethyl Acetate

Concen: 0.103 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

FSS-1DL

Tgt Ion: 43 Resp: 26502

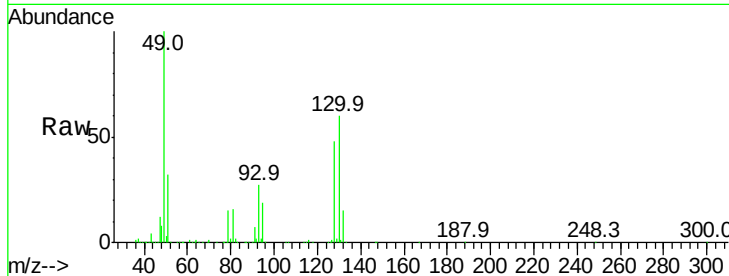
Ion Ratio Lower Upper

43 100

45 0.0 8.0 12.0#

61 27.8 7.6 11.4#

70 20.6 5.8 8.8#

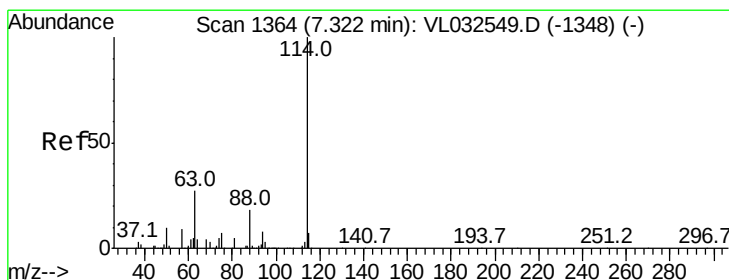
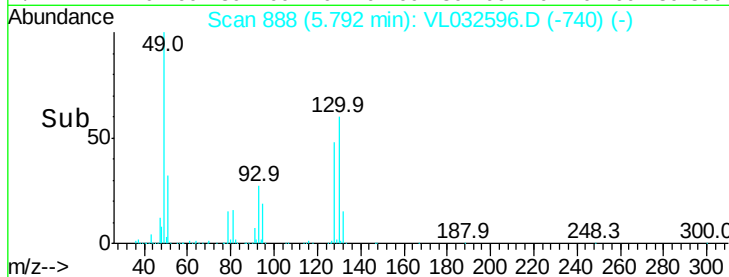
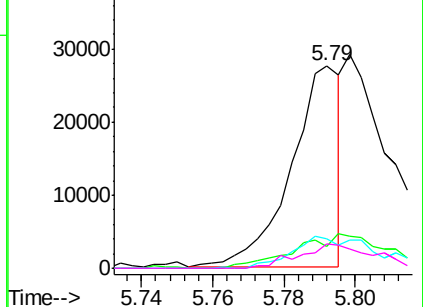


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

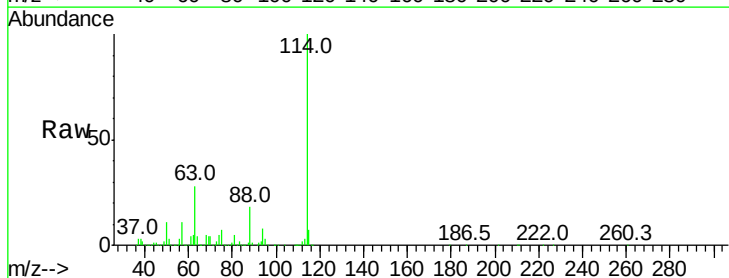
Tgt Ion: 114 Resp: 2732432

Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.4

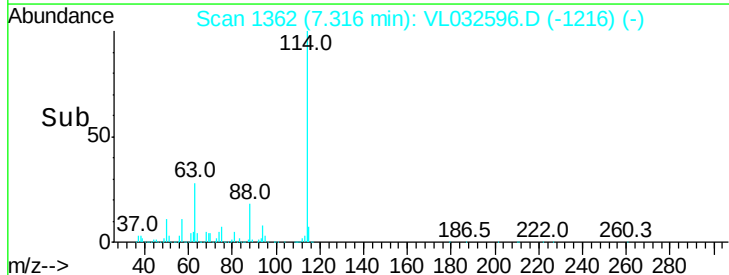
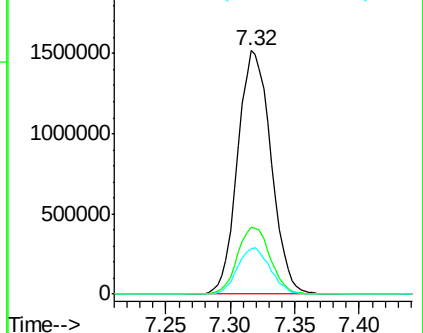
88 18.7 15.0 22.4

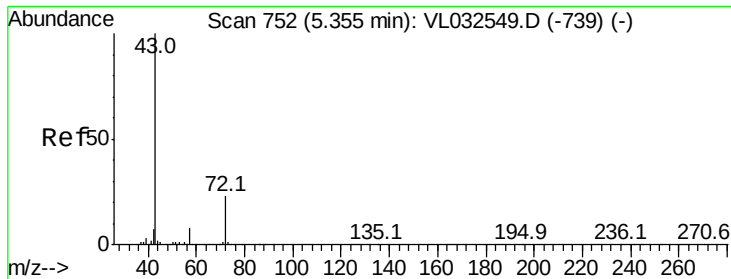


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

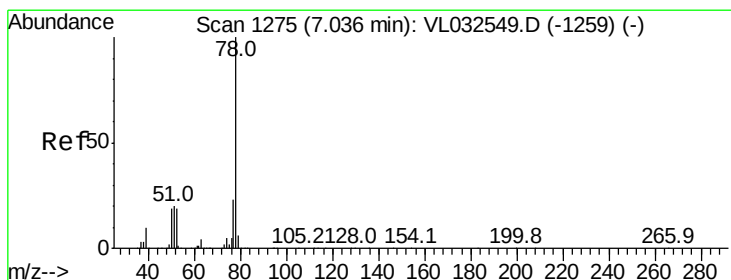
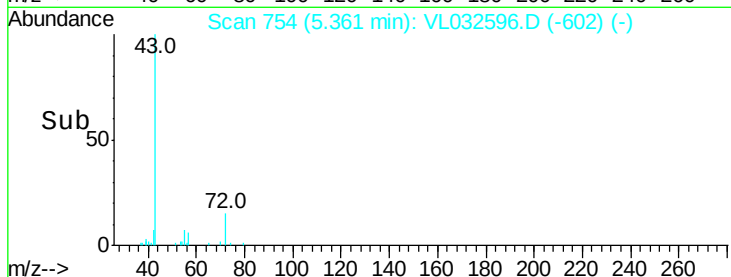
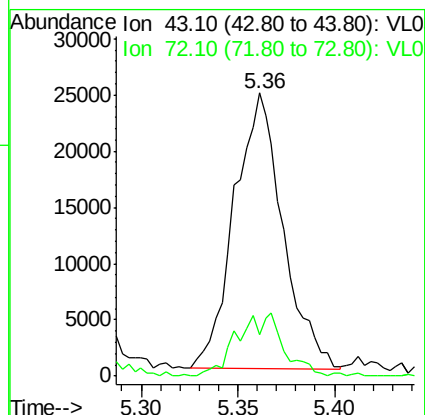
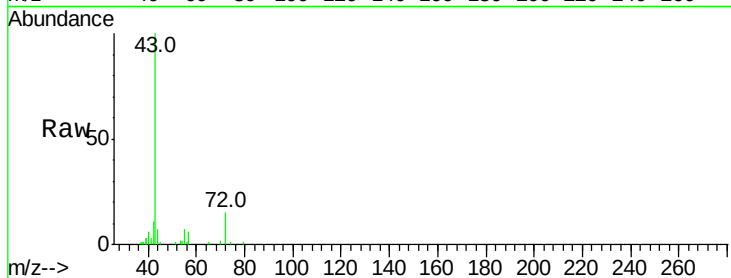




#34
 2-Butanone
 Concen: 0.263 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VL032596.D
 Acq: 4 Oct 2018 11:01

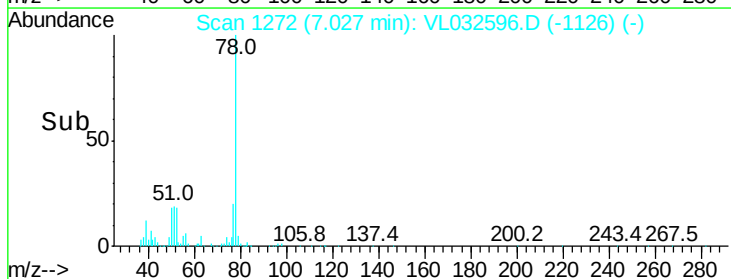
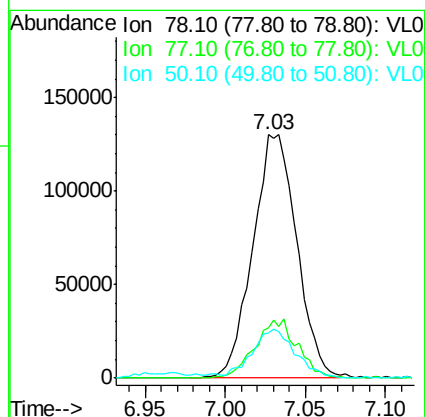
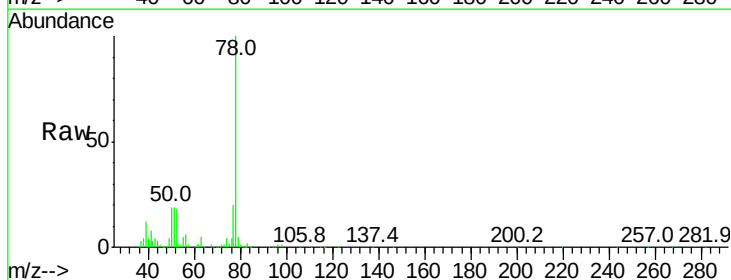
Instrument :
 MSVOA_L
 ClientSampleId :
 FSS-1DL

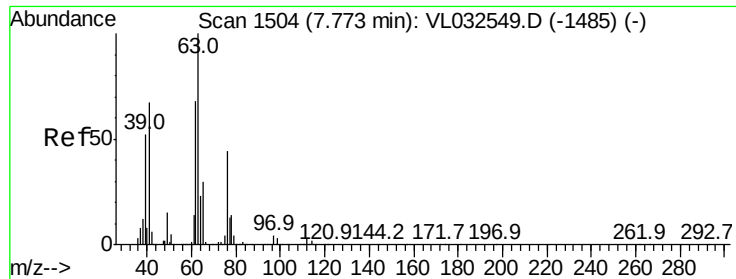
Tgt Ion: 43 Resp: 42839
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.8 26.6



#36
 Benzene
 Concen: 1.113 ppbv
 RT: 7.03 min Scan# 1272
 Delta R.T. -0.03 min
 Lab File: VL032596.D
 Acq: 4 Oct 2018 11:01

Tgt Ion: 78 Resp: 245844
 Ion Ratio Lower Upper
 78 100
 77 20.5 18.4 27.6
 50 18.4 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.475 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

FSS-1DL

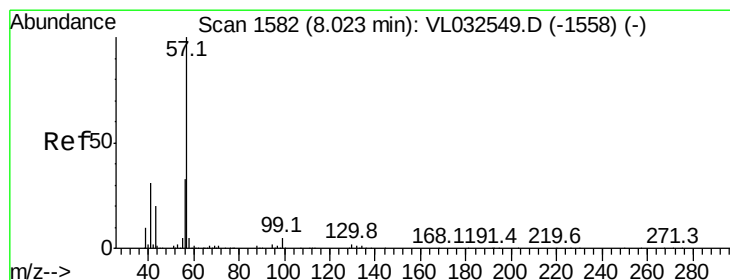
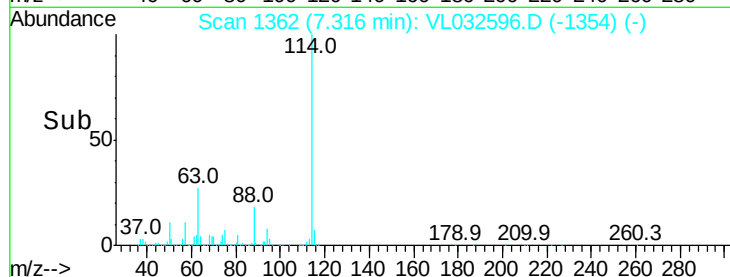
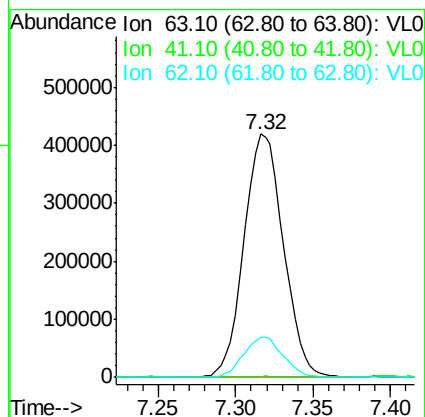
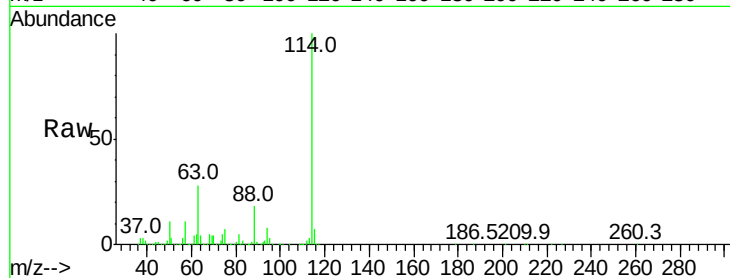
Tgt Ion: 63 Resp: 743883

Ion Ratio Lower Upper

63 100

41 0.2 55.4 83.0#

62 16.2 55.4 83.0#



#44

2,2,4-Trimethylpentane

Concen: 3.541 ppbv

RT: 8.02 min Scan# 1580

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

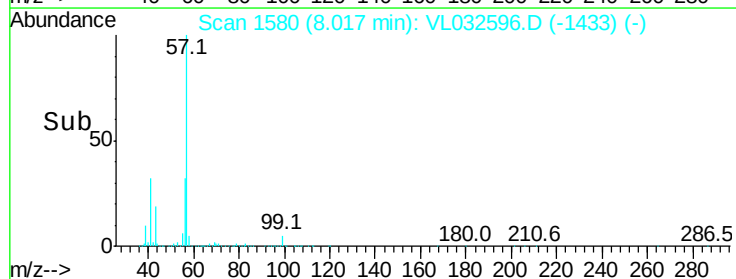
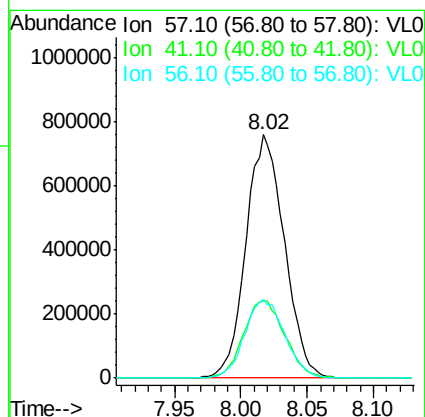
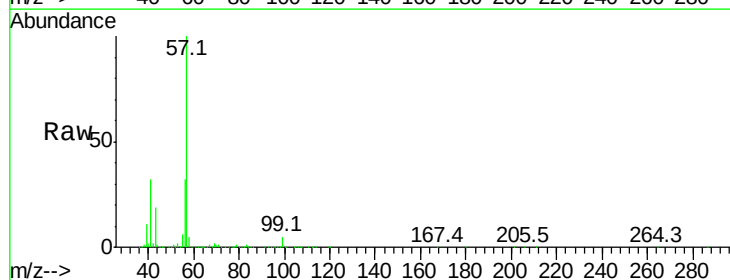
Tgt Ion: 57 Resp: 1528203

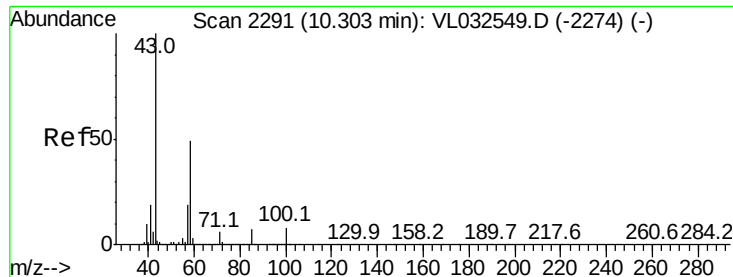
Ion Ratio Lower Upper

57 100

41 34.6 24.4 36.6

56 33.8 25.7 38.5

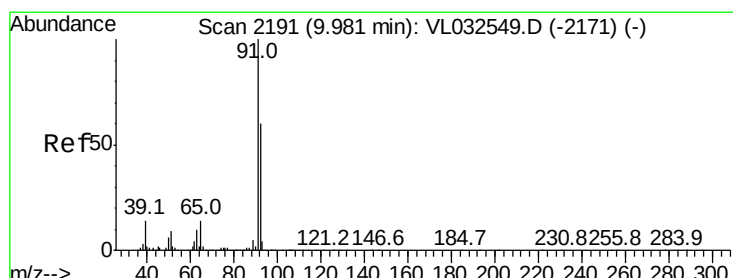
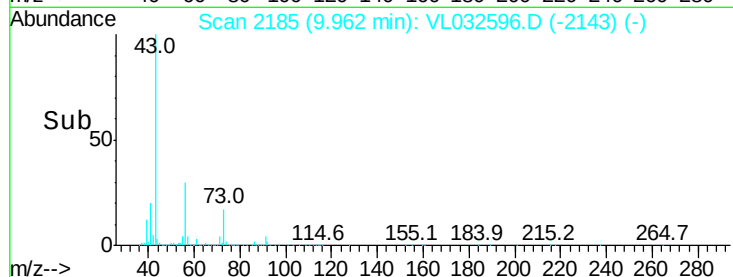
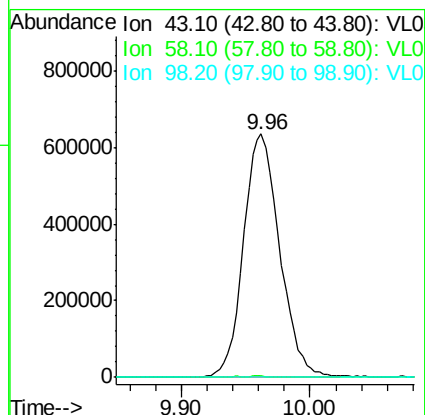
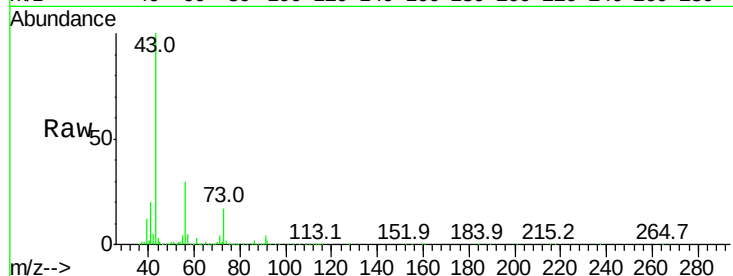




#51
2-Hexanone
Concen: 5.851 ppbv
RT: 9.96 min Scan# 2185
Delta R.T. -0.37 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

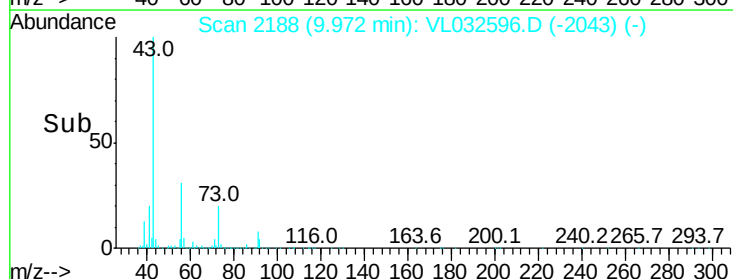
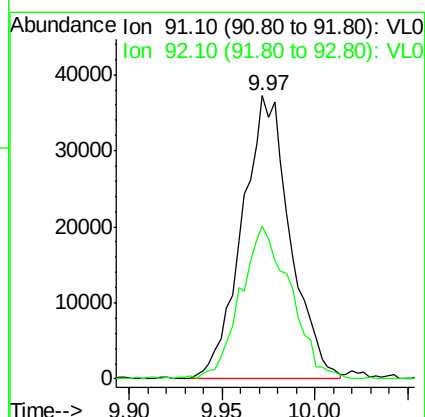
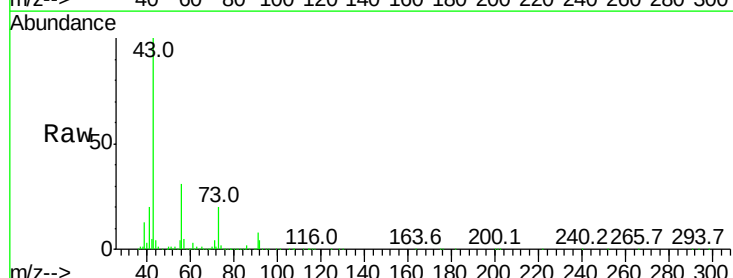
Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

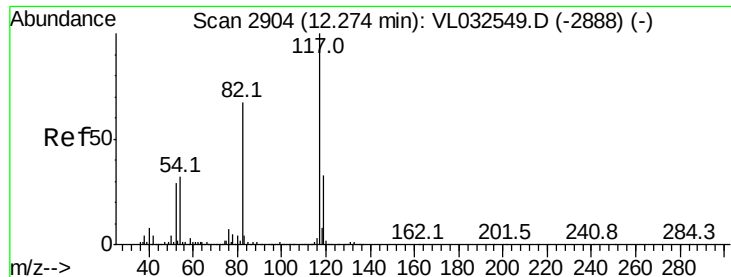
Tgt Ion: 43 Resp: 1237694
Ion Ratio Lower Upper
43 100
58 0.5 39.2 58.8#
98 0.0 0.4 0.6#



#53
Toluene
Concen: 0.250 ppbv
RT: 9.97 min Scan# 2188
Delta R.T. -0.03 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Tgt Ion: 91 Resp: 67203
Ion Ratio Lower Upper
91 100
92 56.3 48.1 72.1

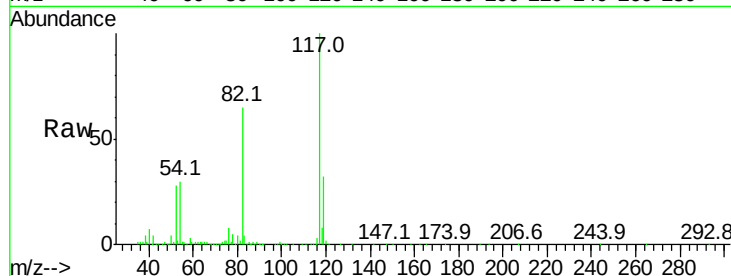




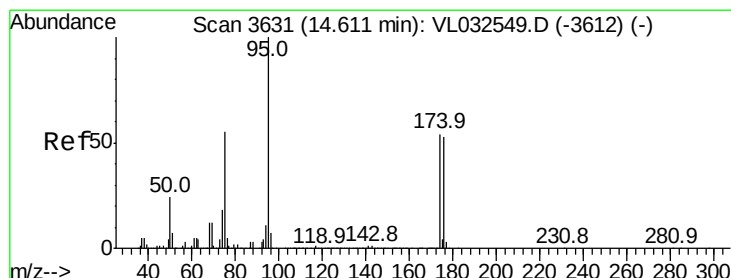
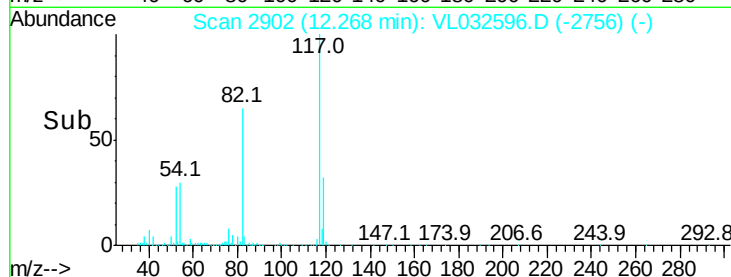
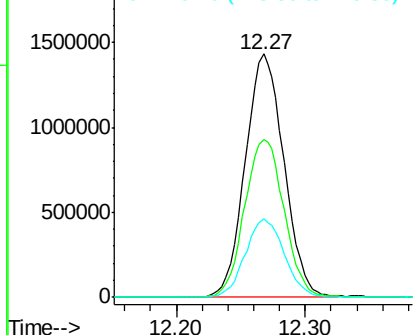
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.03 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Instrument :
MSVOA_L
ClientSampleId :
FSS-1DL

Tgt Ion: 117 Resp: 2996610
Ion Ratio Lower Upper
117 100
82 66.5 53.0 79.6
119 32.7 45.9 68.9#

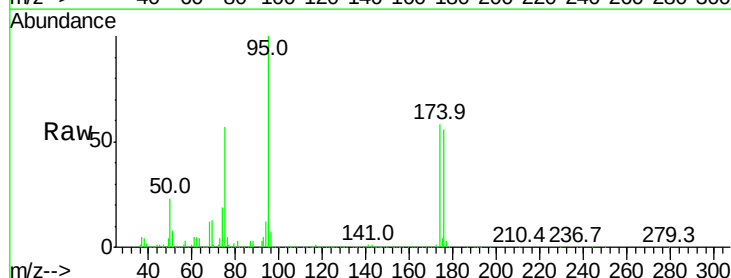


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.482 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032596.D
Acq: 4 Oct 2018 11:01

Tgt Ion: 95 Resp: 2142680
Ion Ratio Lower Upper
95 100
174 59.3 46.3 69.5
175 4.1 3.4 5.0



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

