

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033478.D
 Acq On : 27 Mar 2019 21:26
 Operator : SY/AP
 Sample : K2042-13DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:30:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	729145	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.28	114	1671049	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.23	117	1727049	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1351958	9.99	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

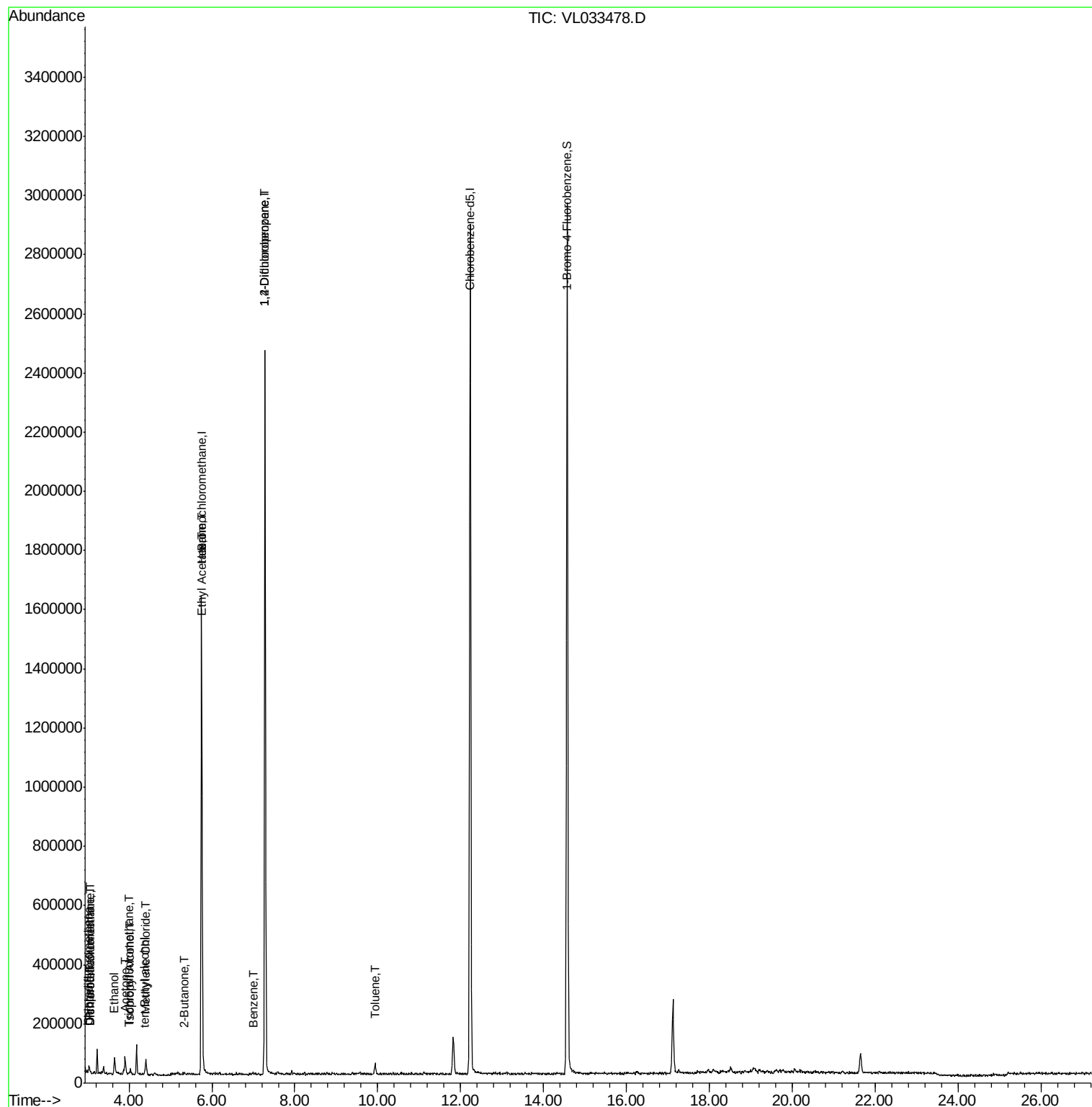
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6596	0.062	ppbv	96
3) Chlorodifluoromethane	3.01	51	8819	0.105	ppbv #	74
8) Dichlorotetrafluoroethane	3.07	85	6596	0.058	ppbv #	17
9) Propene	3.04	41	3910	0.111	ppbv	93
11) Trichlorofluoromethane	3.99	101	2940	0.022	ppbv	100
13) Ethanol	3.65	45	57738	6.329	ppbv	66
15) Acetone	3.90	43	51013	0.582	ppbv	97
17) tert-Butyl alcohol	4.37	59	542	0.034	ppbv #	73
19) Isopropyl Alcohol	4.03	45	12842	0.232	ppbv #	94
20) Methylene Chloride	4.40	84	18149	0.488	ppbv #	82
25) Ethyl Acetate	5.77	43	12838	0.079	ppbv #	81
26) Hexane	5.76	57	5931	0.082	ppbv #	64
34) 2-Butanone	5.34	43	2065	0.021	ppbv #	79
36) Benzene	6.99	78	2904	0.021	ppbv #	71
39) 1,2-Dichloropropane	7.28	63	451758	8.225	ppbv #	22
53) Toluene	9.93	91	15797	0.097	ppbv #	21

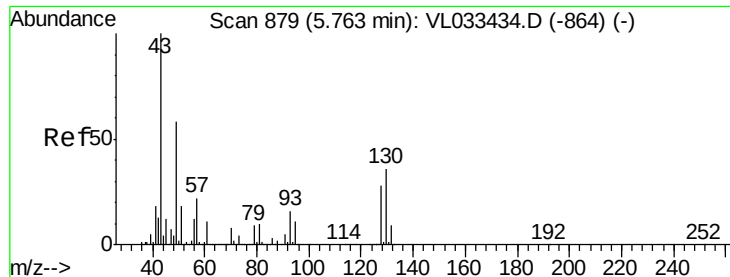
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033478.D

Acq: 27 Mar 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :

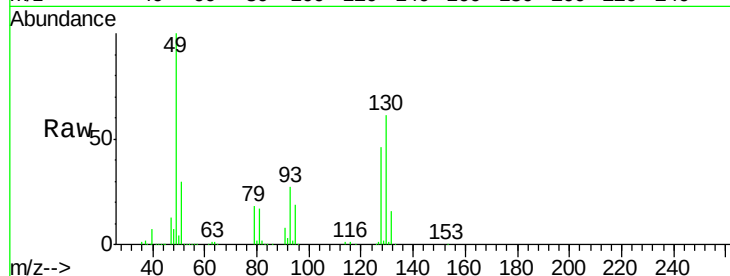
Tot Ion: 49 Resp: 729145

Ion	Ratio	Lower	Upper
49	100		
128	47.4	24.0	72.0
130	62.2	31.2	93.6

49 100

128 47.4 24.0 72.0

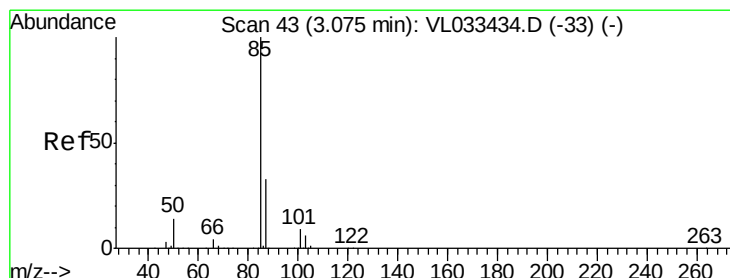
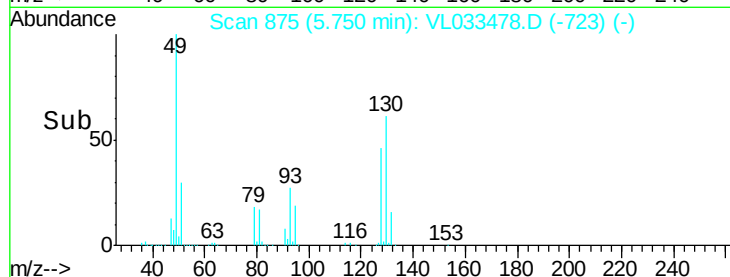
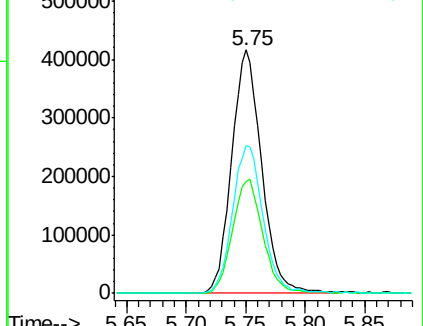
130 62.2 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.062 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.01 min

Lab File: VL033478.D

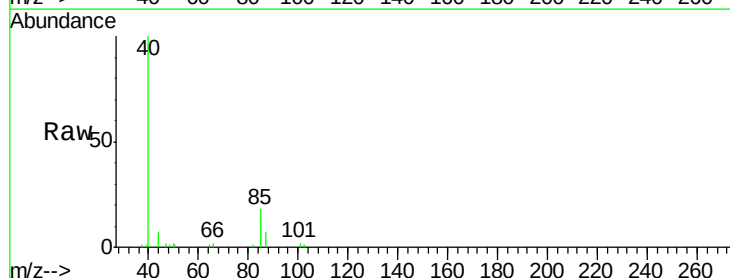
Acq: 27 Mar 2019 21:26

Tgt Ion: 85 Resp: 6596

Ion	Ratio	Lower	Upper
85	100		
87	35.9	26.7	40.1

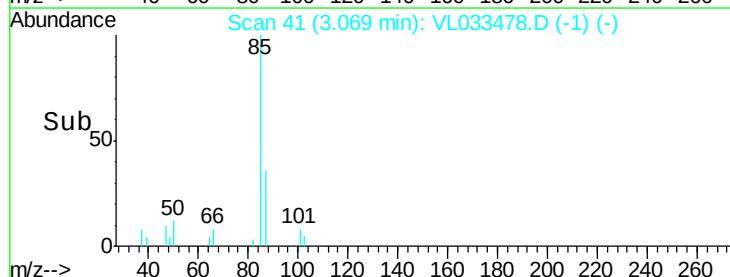
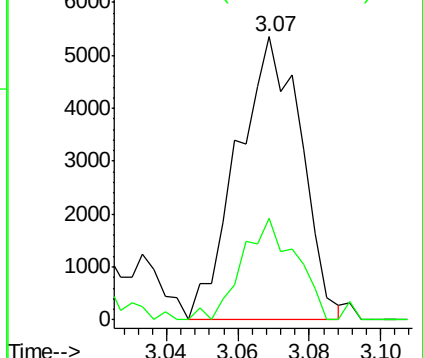
85 100

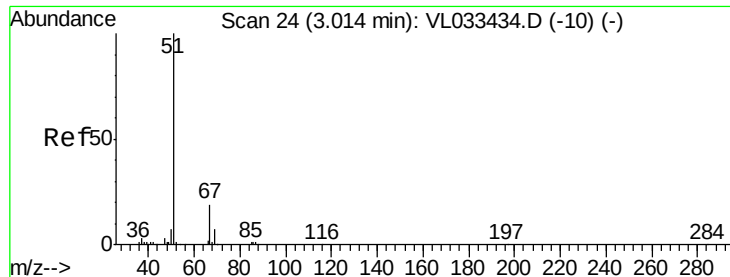
87 35.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

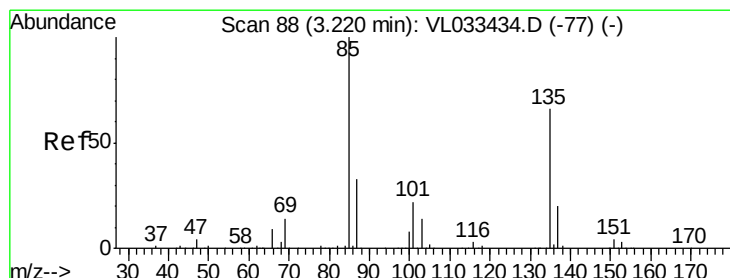
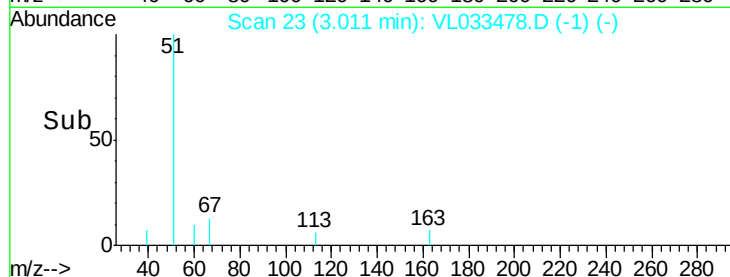
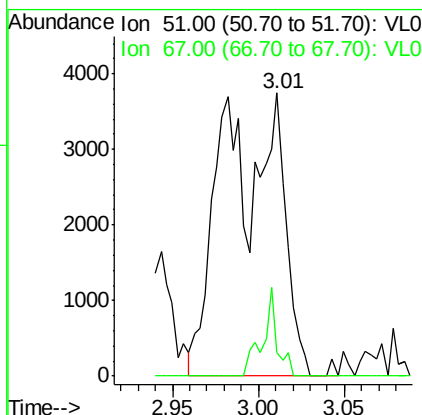
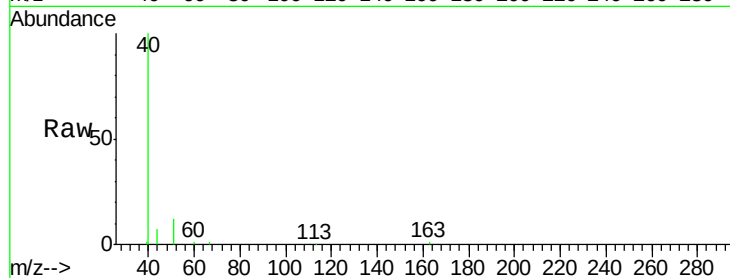




#3
 Chlorodifluoromethane
 Concen: 0.105 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

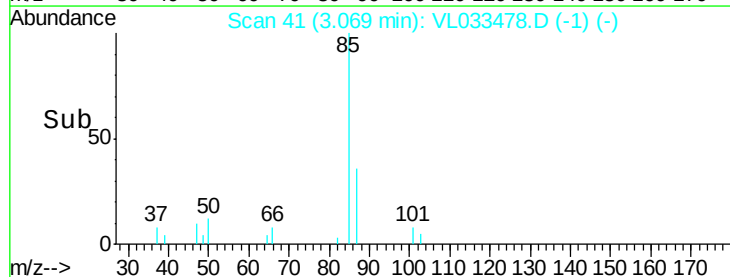
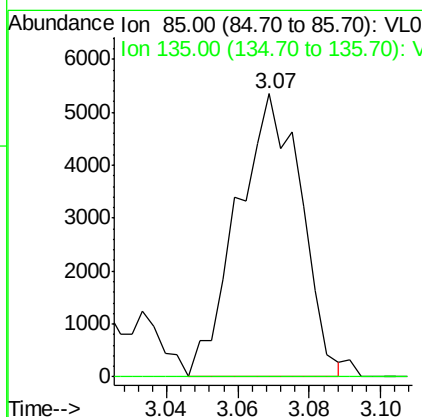
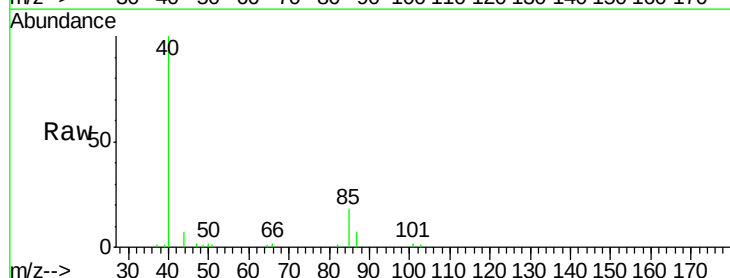
Instrument :
 MSVOA_L
 ClientSampleId :

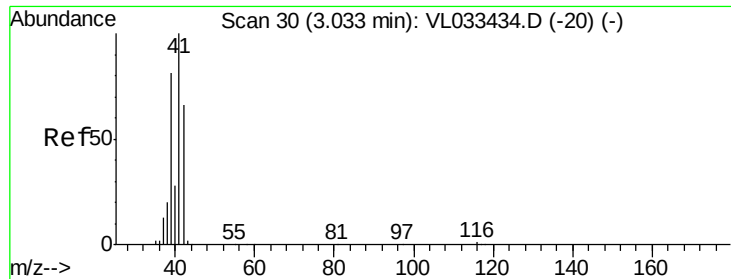
Tot Ion: 51 Resp: 8819
 Ion Ratio Lower Upper
 51 100
 67 8.0 15.7 23.5#



#8
 Dichlorotetrafluoroethane
 Concen: 0.058 ppbv
 RT: 3.07 min Scan# 41
 Delta R.T. -0.15 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

Tgt Ion: 85 Resp: 6596
 Ion Ratio Lower Upper
 85 100
 135 0.5 54.0 81.0#

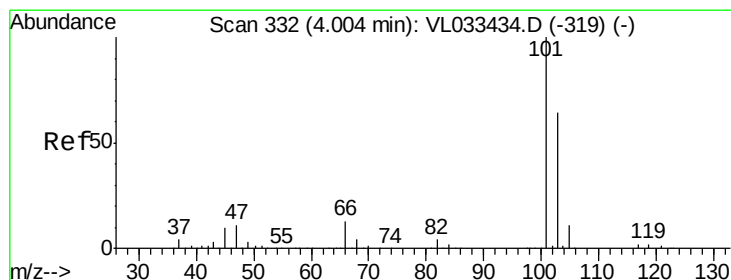
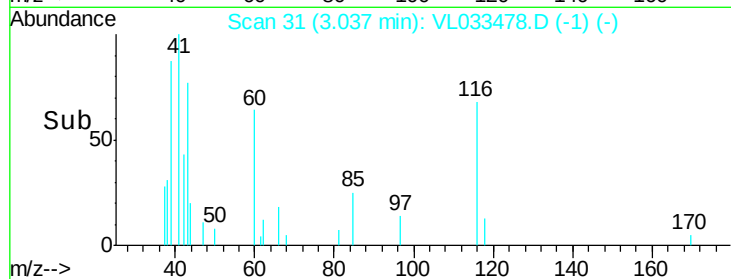
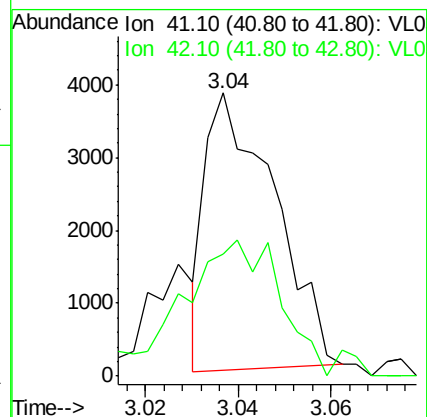
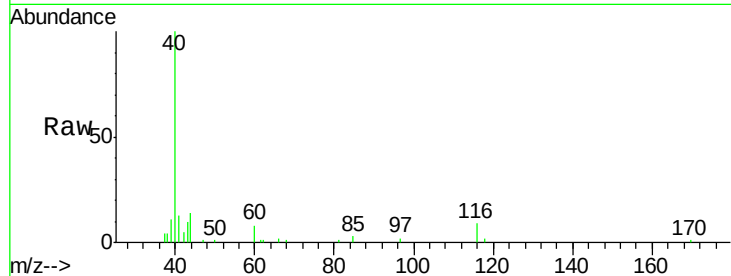




#9
 Propene
 Concen: 0.111 ppbv
 RT: 3.04 min Scan# 31
 Delta R.T. 0.00 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

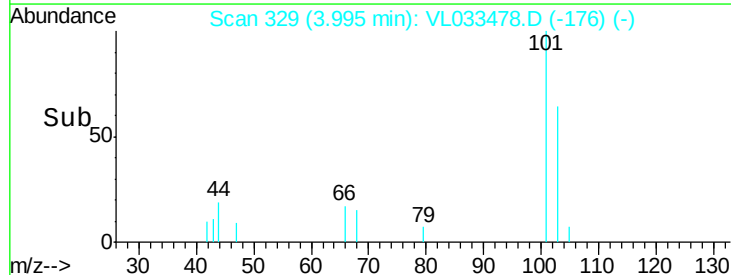
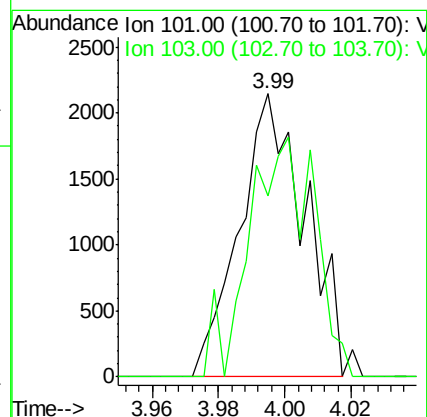
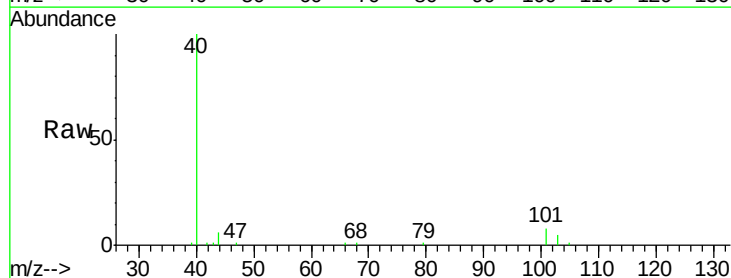
Instrument :
 MSVOA_L
 ClientSampleId :

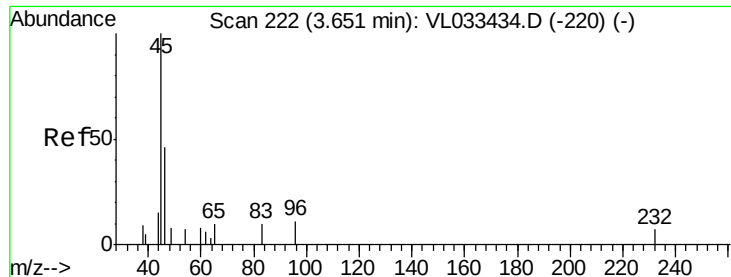
Tot Ion: 41 Resp: 3910
 Ion Ratio Lower Upper
 41 100
 42 73.3 53.9 80.9



#11
 Trichlorofluoromethane
 Concen: 0.022 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.01 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

Tgt Ion: 101 Resp: 2940
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.3 76.9

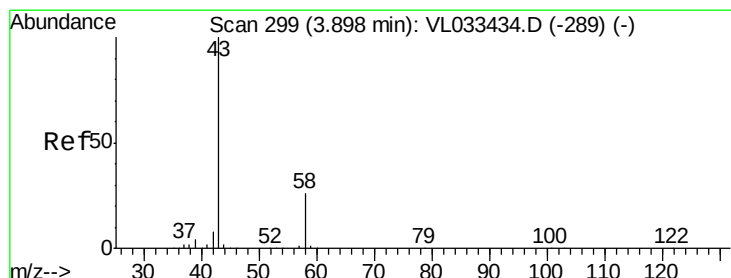
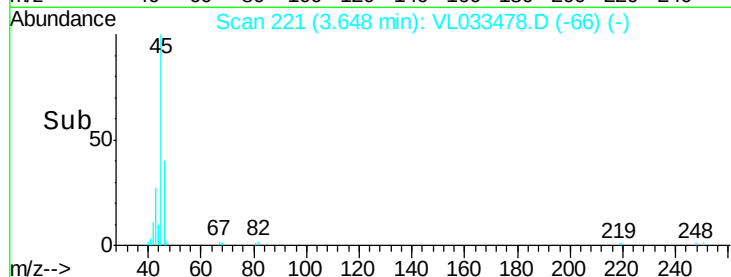
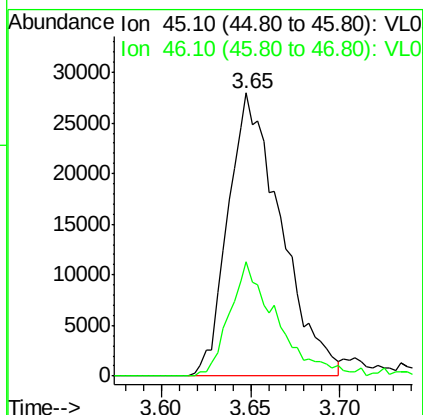
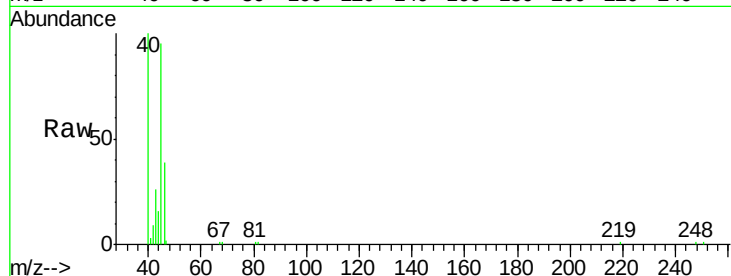




#13
Ethanol
Concen: 6.329 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

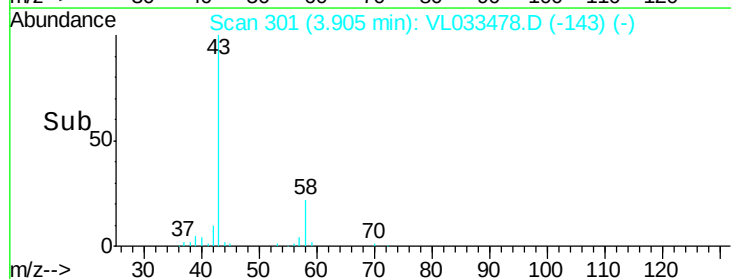
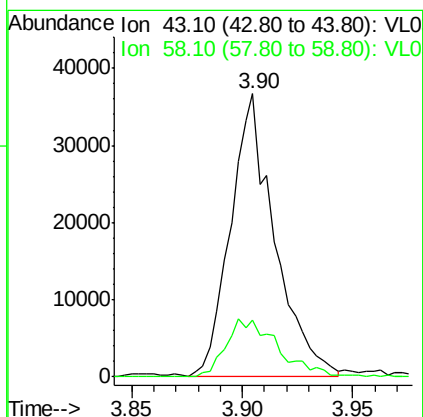
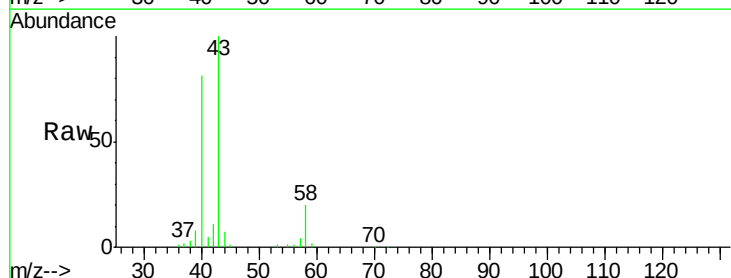
Instrument :
MSVOA_L
ClientSampleId :

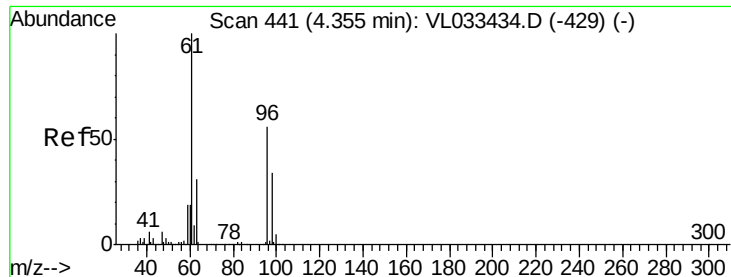
Tot Ion: 45 Resp: 57738
Ion Ratio Lower Upper
45 100
46 37.1 25.4 101.8



#15
Acetone
Concen: 0.582 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

Tgt Ion: 43 Resp: 51013
Ion Ratio Lower Upper
43 100
58 24.3 20.5 30.7





#17

tert-Butyl alcohol

Concen: 0.034 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL033478.D

Acq: 27 Mar 2019 21:26

Instrument :

MSVOA_L

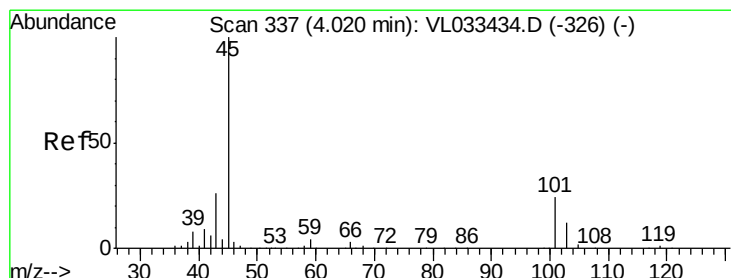
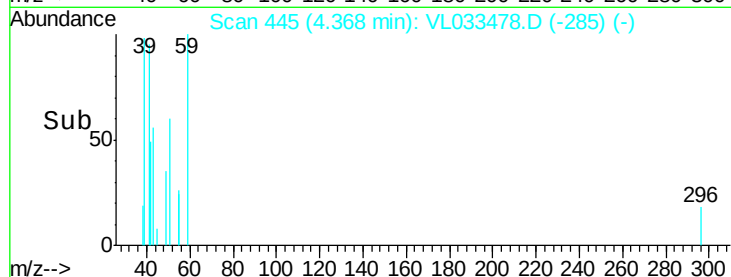
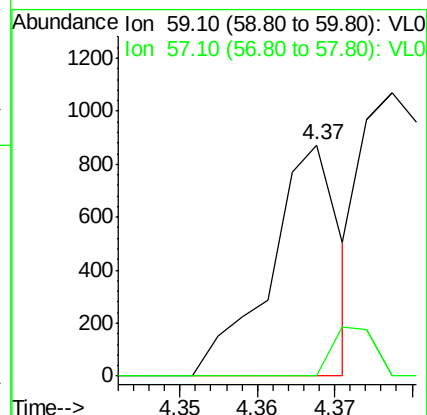
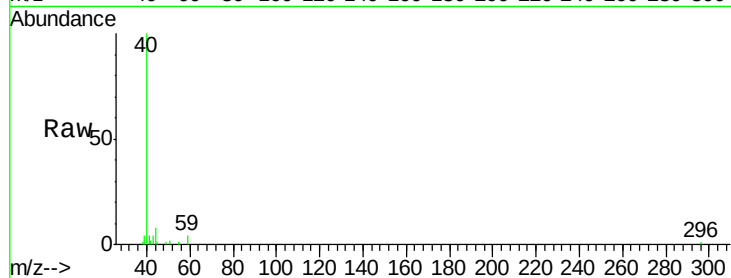
ClientSampleId :

Tot Ion: 59 Resp: 542

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#19

Isopropyl Alcohol

Concen: 0.232 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033478.D

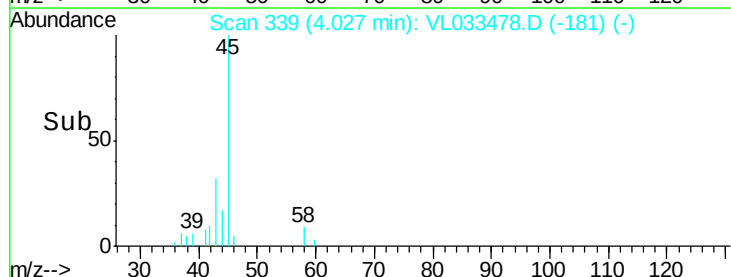
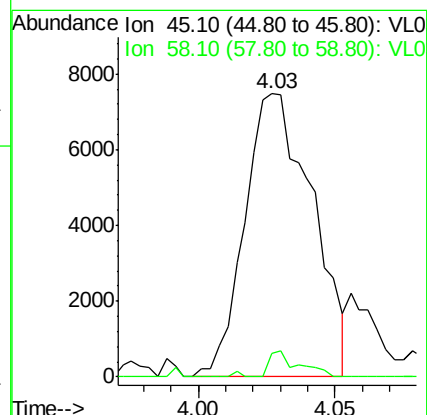
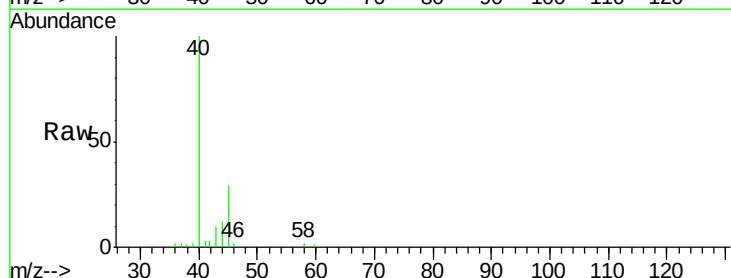
Acq: 27 Mar 2019 21:26

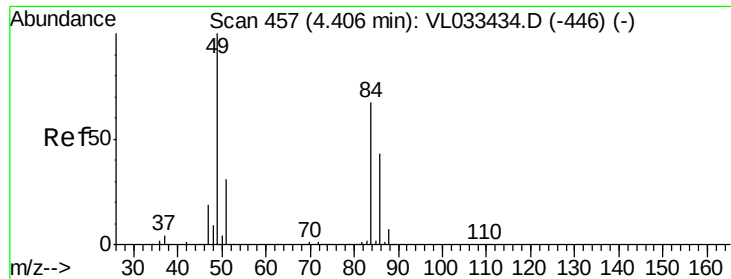
Tgt Ion: 45 Resp: 12842

Ion Ratio Lower Upper

45 100

58 4.1 1.4 2.2#

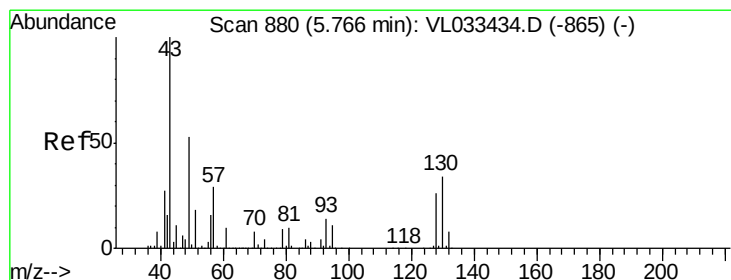
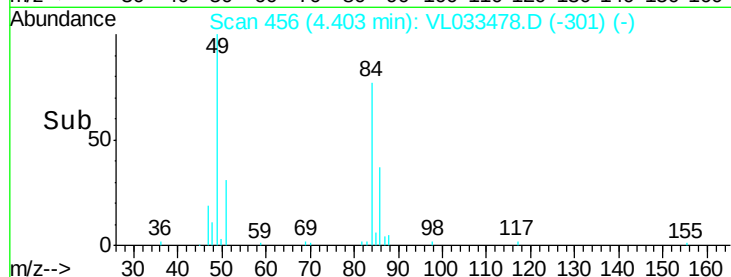
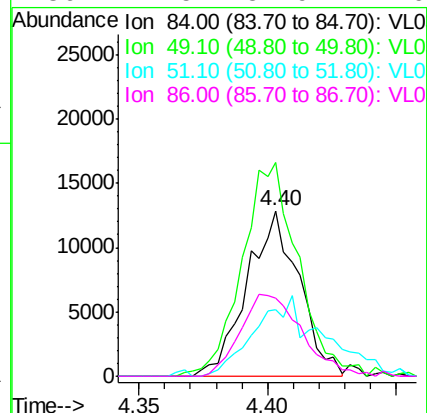
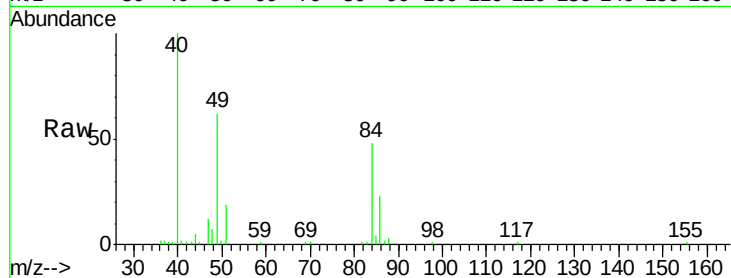




#20
Methylene Chloride
Concen: 0.488 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

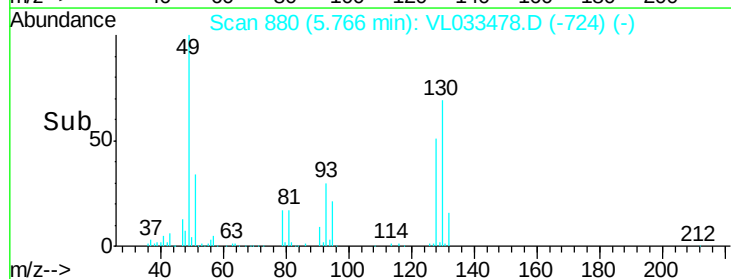
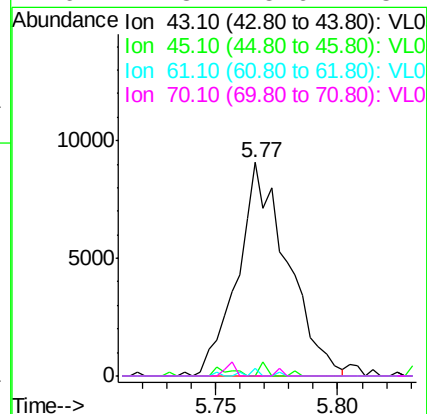
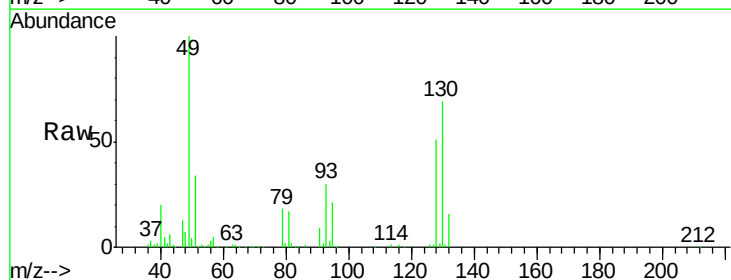
Instrument :
MSVOA_L
ClientSampleId :

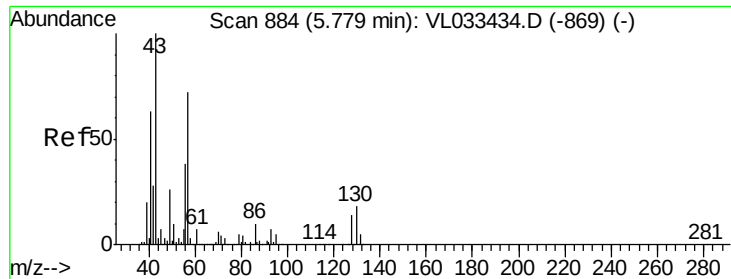
Tot Ion: 84 Resp: 18149
Ion Ratio Lower Upper
84 100
49 126.1 120.0 180.0
51 40.3 36.7 55.1
86 47.5 51.9 77.9#



#25
Ethyl Acetate
Concen: 0.079 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

Tgt Ion: 43 Resp: 12838
Ion Ratio Lower Upper
43 100
45 2.4 7.8 11.6#
61 1.3 7.3 10.9#
70 1.8 5.6 8.4#

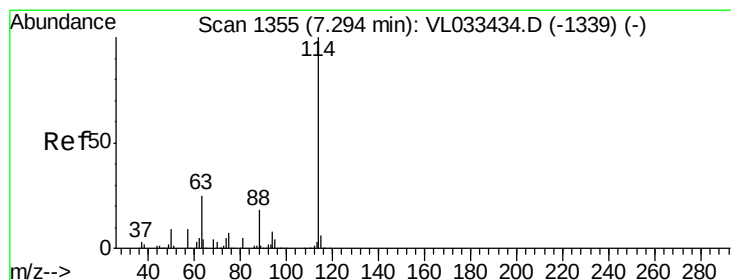
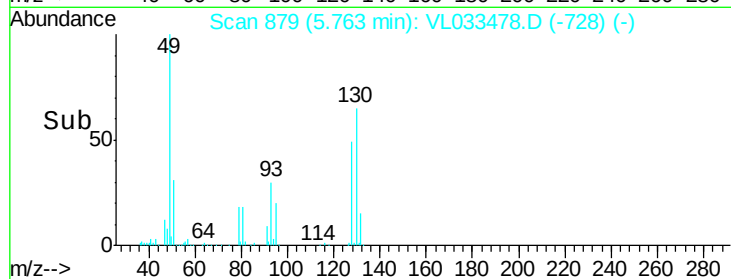
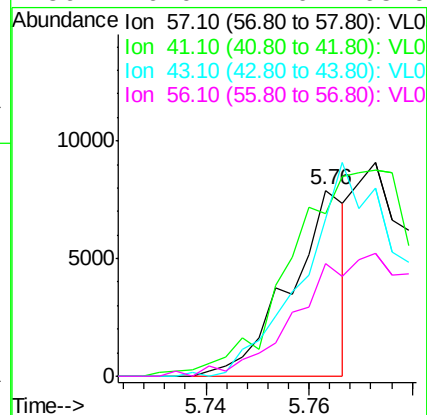
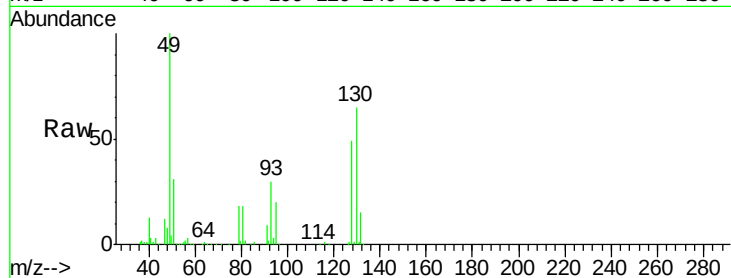




#26
Hexane
Concen: 0.082 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.02 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

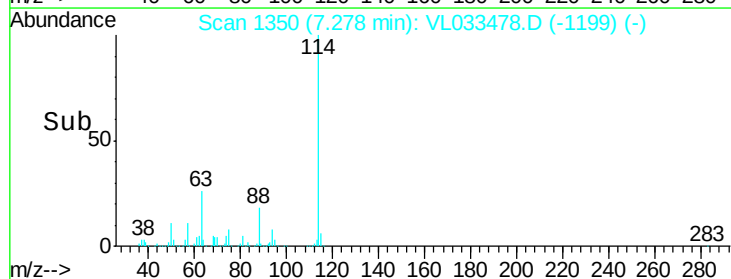
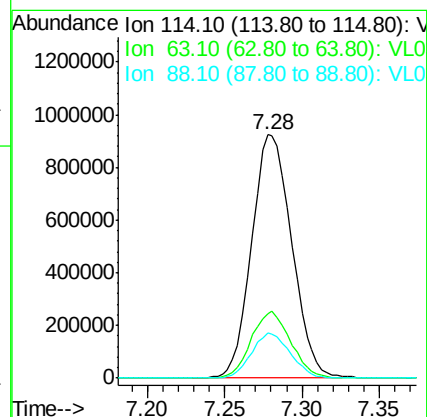
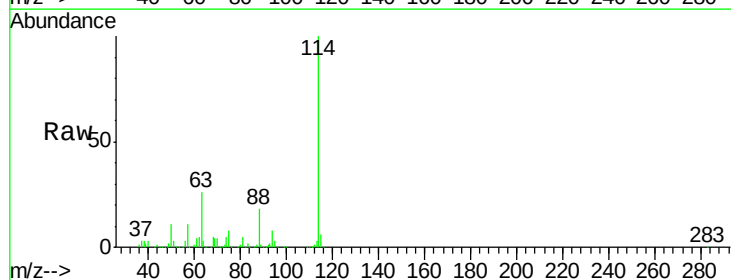
Instrument :
MSVOA_L
ClientSampleId :

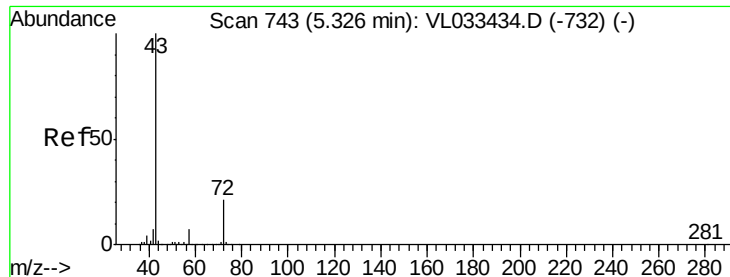
Tot Ion: 57 Resp: 5931
Ion Ratio Lower Upper
57 100
41 0.0 70.7 106.1#
43 221.3 182.6 274.0
56 0.0 42.0 63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1350
Delta R.T. -0.02 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

Tgt Ion: 114 Resp: 1671049
Ion Ratio Lower Upper
114 100
63 27.1 21.5 32.3
88 18.1 14.5 21.7





#34

2-Butanone

Concen: 0.021 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.01 min

Lab File: VL033478.D

Acq: 27 Mar 2019 21:26

Instrument :

MSVOA_L

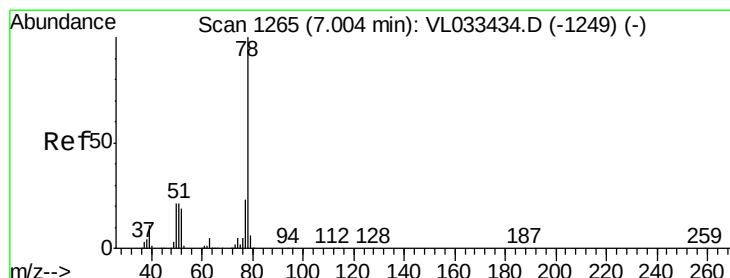
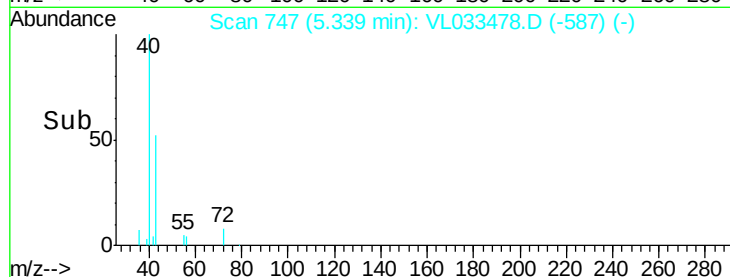
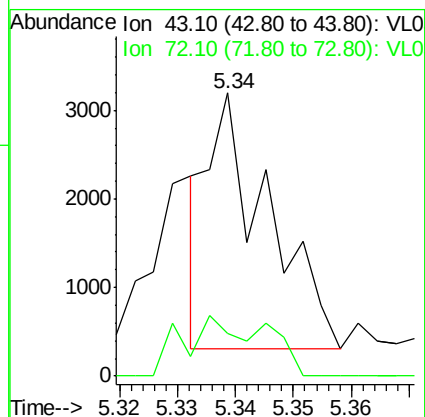
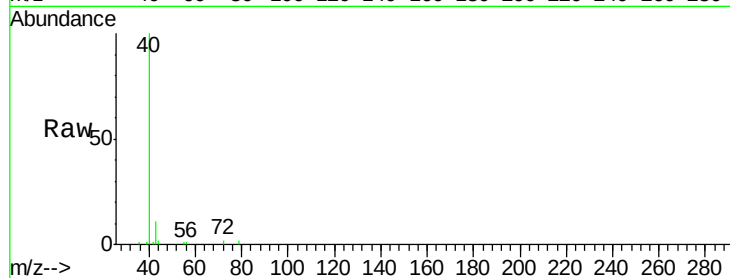
ClientSampled :

Tot Ion: 43 Resp: 2065

Ion Ratio Lower Upper

43 100

72 31.8 17.4 26.2#



#36

Benzene

Concen: 0.021 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033478.D

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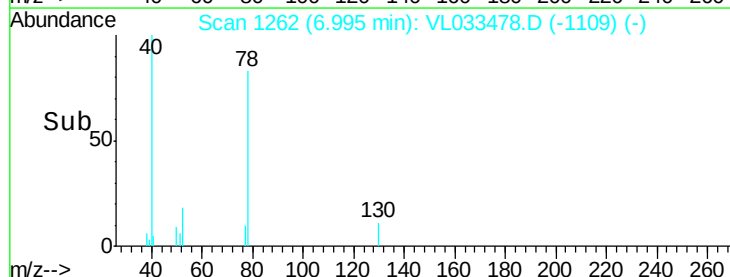
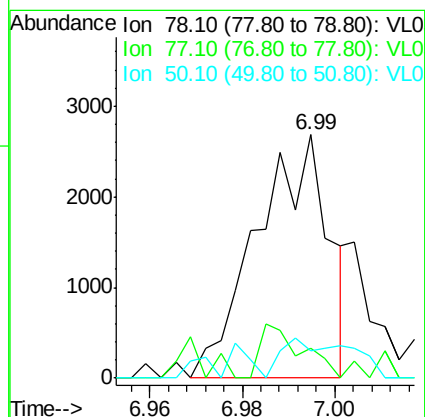
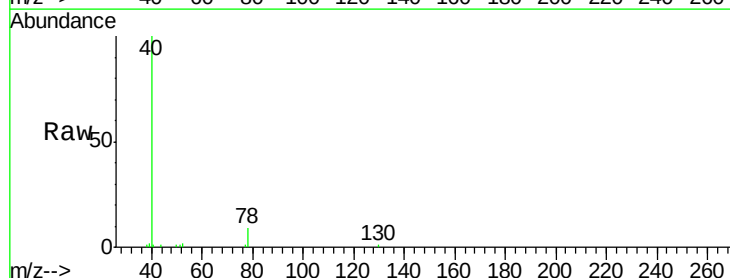
Tgt Ion: 78 Resp: 2904

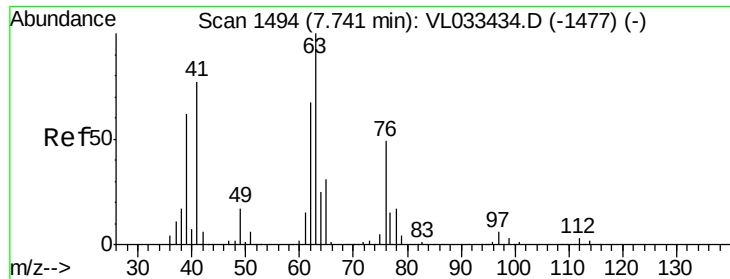
Ion Ratio Lower Upper

78 100

77 12.0 18.1 27.1#

50 3.9 16.7 25.1#

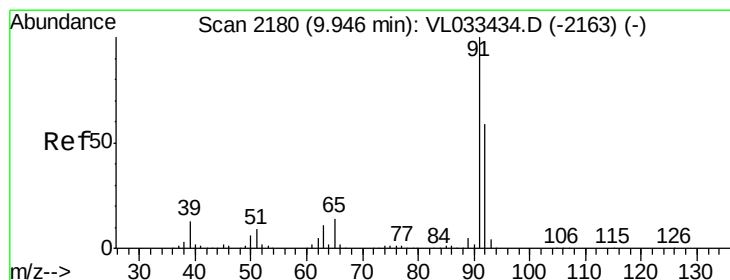
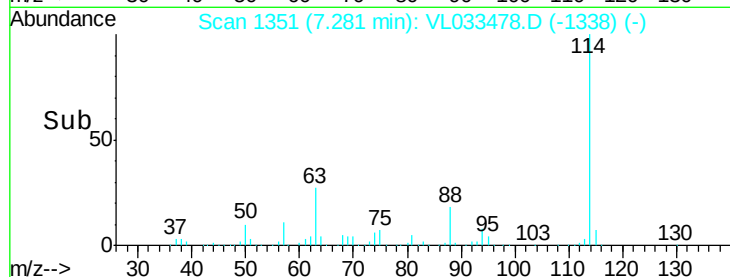
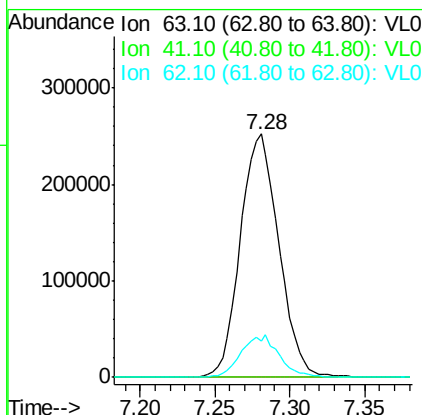
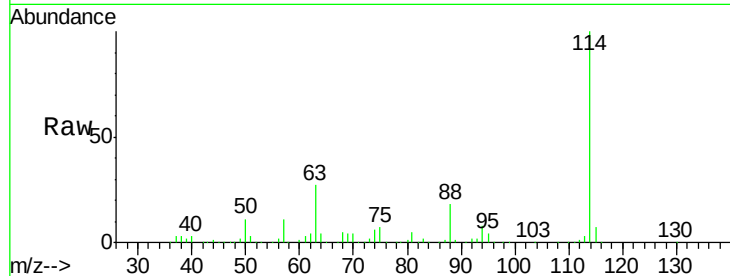




#39
 1,2-Dichloropropane
 Concen: 8.225 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.46 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

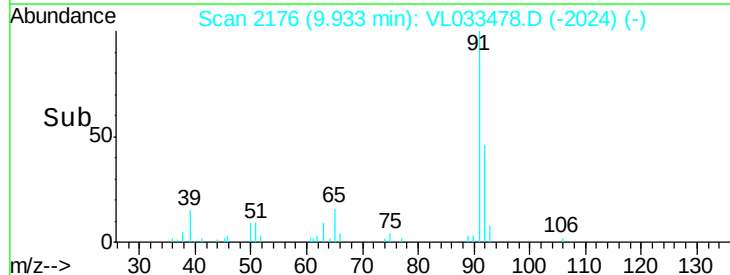
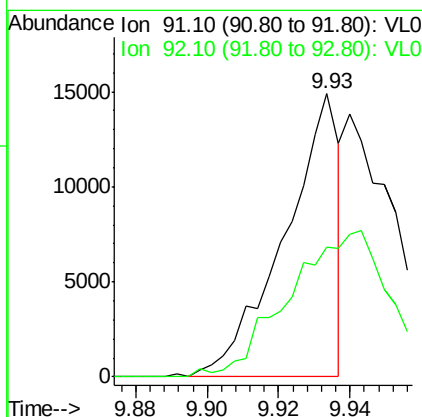
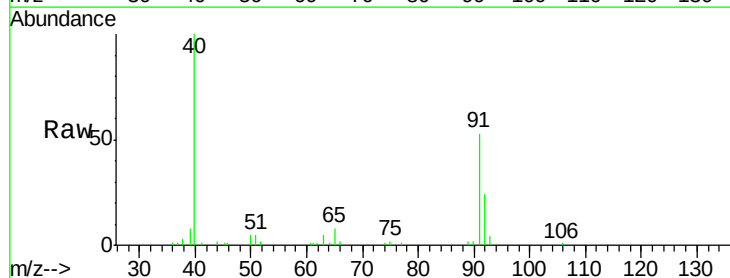
Instrument :
 MSVOA_L
 ClientSampleId :

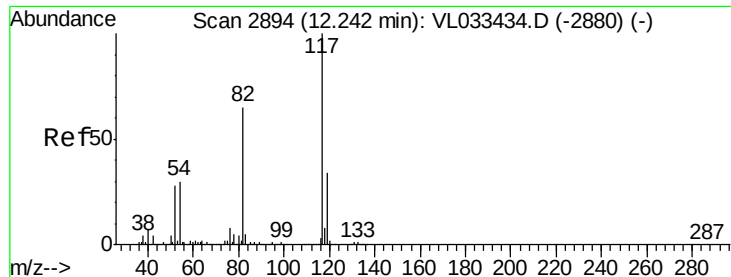
Tot Ion: 63 Resp: 451758
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 14.7 54.0 81.0#



#53
 Toluene
 Concen: 0.097 ppbv
 RT: 9.93 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VL033478.D
 Acq: 27 Mar 2019 21:26

Tgt Ion: 91 Resp: 15797
 Ion Ratio Lower Upper
 91 100
 92 0.0 47.4 71.0#

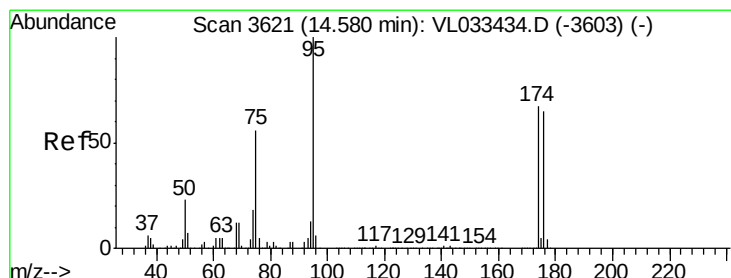
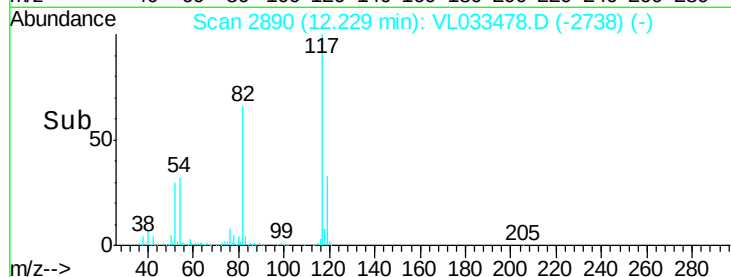
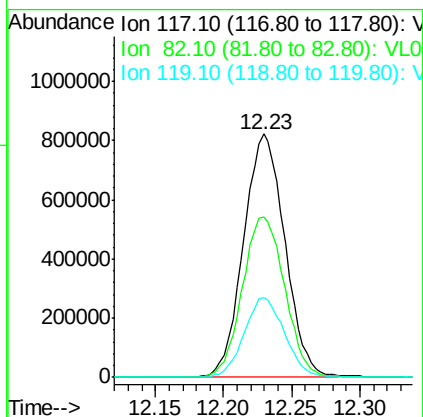
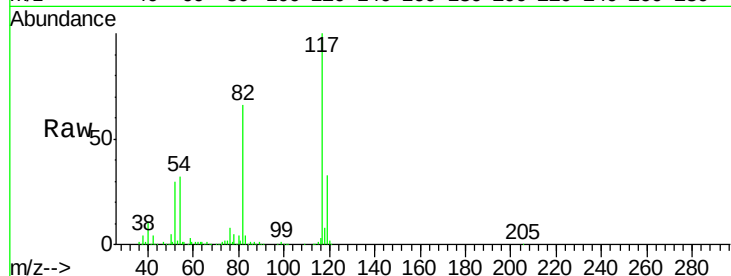




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1727049
Ion Ratio Lower Upper
117 100
82 68.1 51.5 77.3
119 32.3 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.985 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033478.D
Acq: 27 Mar 2019 21:26

Tgt Ion: 95 Resp: 1351958
Ion Ratio Lower Upper
95 100
174 64.4 52.9 79.3
175 4.7 3.8 5.6

