

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033453.D
 Acq On : 26 Mar 2019 2:05
 Operator : SY/AP
 Sample : K1991-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Mar 26 05:23:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	793016	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1858562	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1813091	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1404524	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

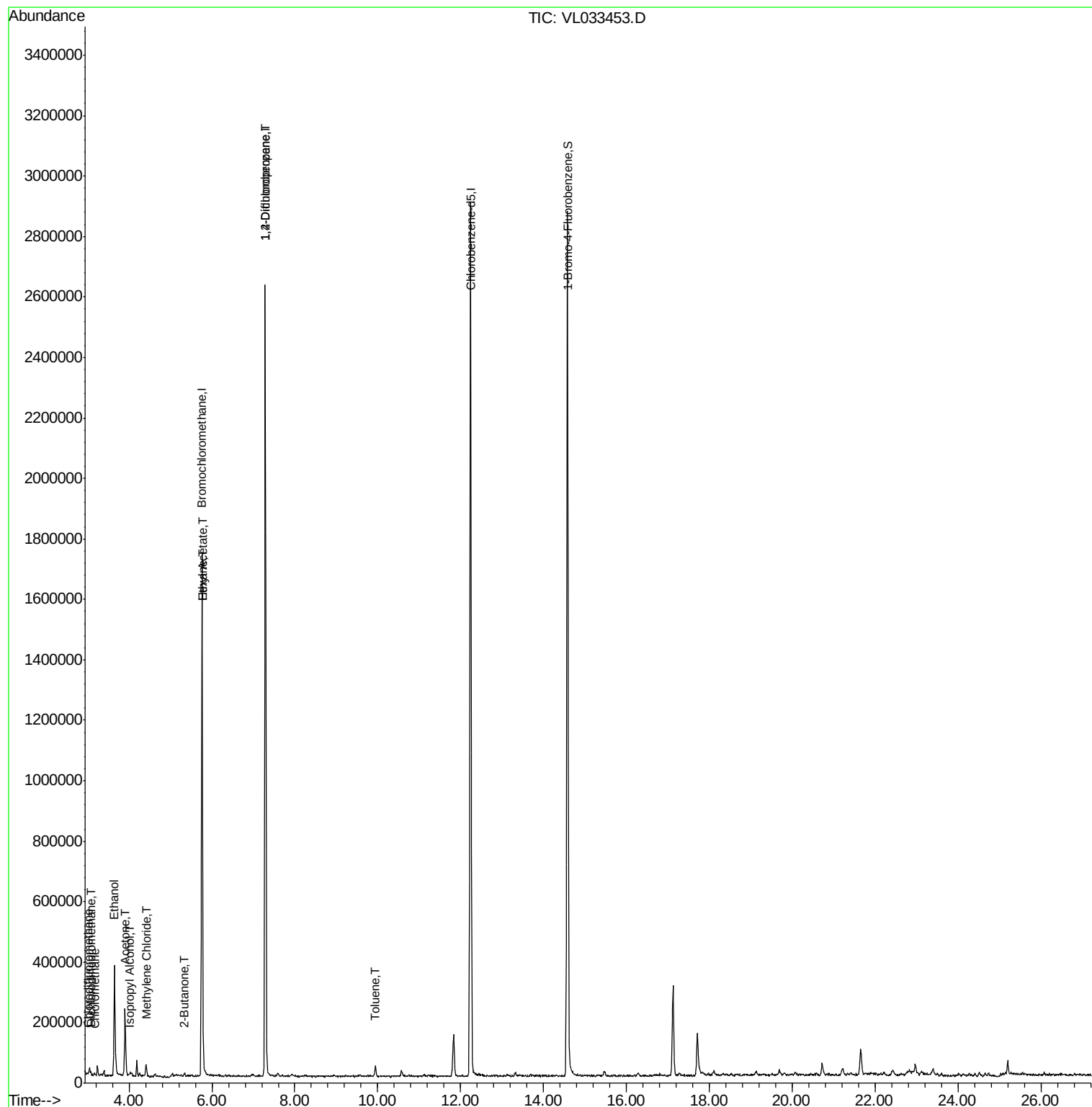
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	6672	0.058	ppbv #	79
3) Chlorodifluoromethane	3.01	51	5133	0.056	ppbv	93
4) Chloromethane	3.17	50	3583	0.074	ppbv	99
13) Ethanol	3.65	45	403748	44.630	ppbv	65
15) Acetone	3.90	43	223235	2.341	ppbv	98
19) Isopropyl Alcohol	4.03	45	6687	0.111	ppbv #	1
20) Methylene Chloride	4.40	84	5330	0.132	ppbv	92
25) Ethyl Acetate	5.78	43	14944	0.084	ppbv #	89
26) Hexane	5.78	57	14306	0.182	ppbv #	51
34) 2-Butanone	5.33	43	4975	0.045	ppbv #	54
39) 1,2-Dichloropropane	7.29	63	475472	7.783	ppbv #	22
53) Toluene	9.94	91	10612	0.059	ppbv #	21

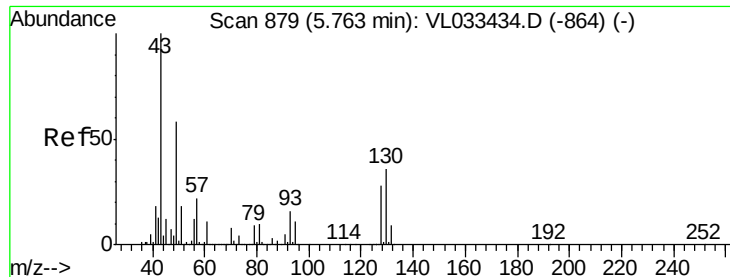
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 26 05:23:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
QLast Update : Mon Mar 25 16:04:49 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033453.D

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Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

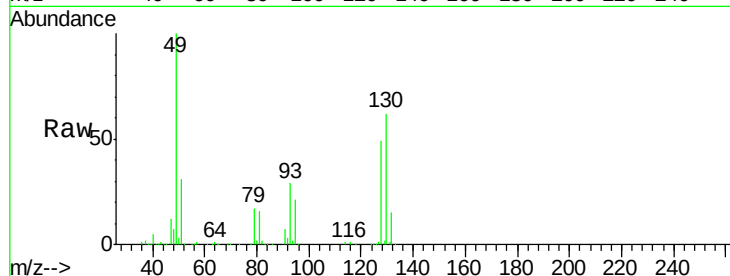
Tgt Ion: 49 Resp: 793016

Ion Ratio Lower Upper

49 100

128 48.9 24.0 72.0

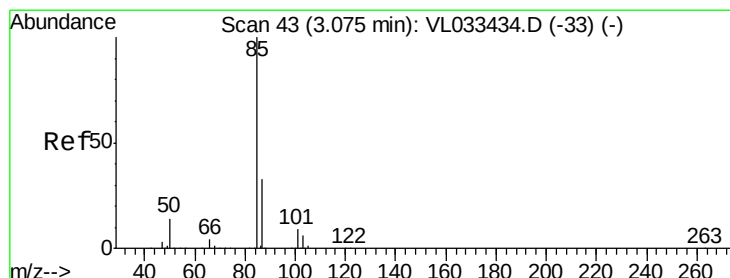
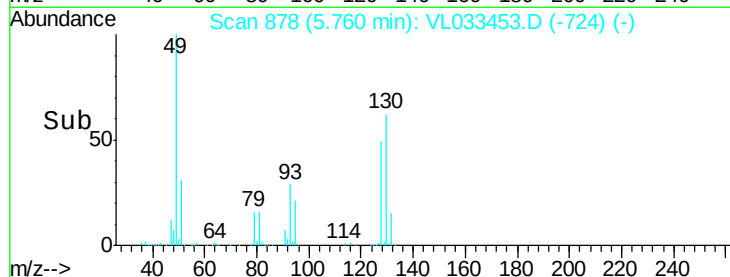
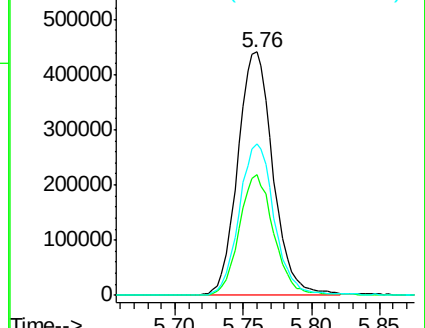
130 62.5 31.2 93.6



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



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.01 min

Lab File: VL033453.D

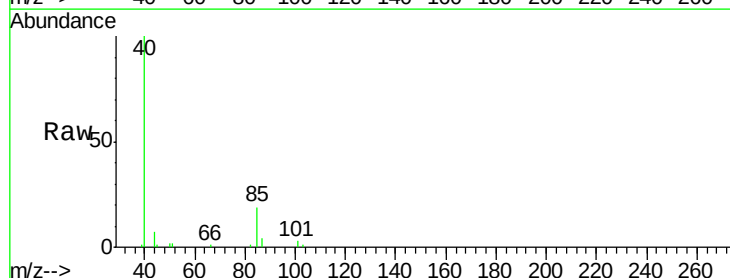
Acq: 26 Mar 2019 2:05

Tgt Ion: 85 Resp: 6672

Ion Ratio Lower Upper

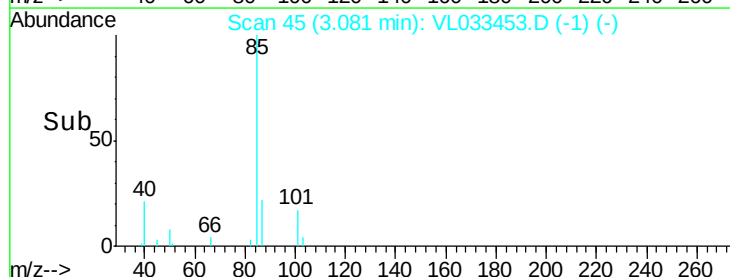
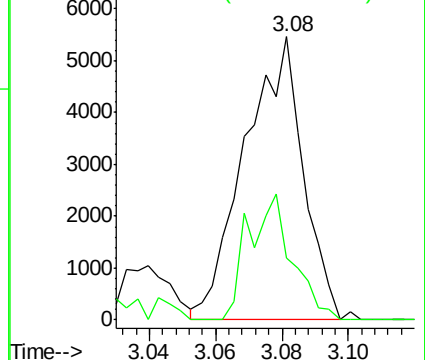
85 100

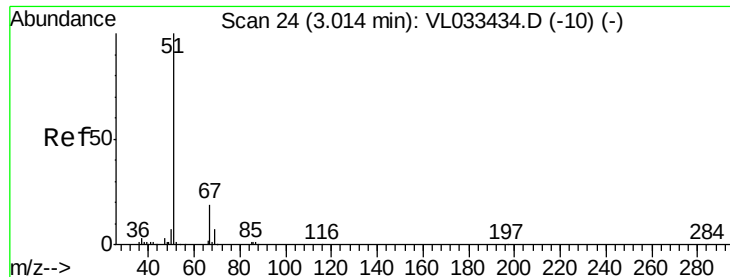
87 21.7 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033453.D

Acq: 26 Mar 2019 2:05

Instrument :

MSVOA_L

ClientSampleId :

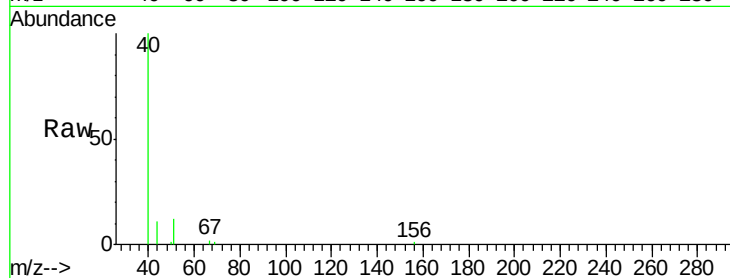
IA-2DL

Tgt Ion: 51 Resp: 5133

Ion Ratio Lower Upper

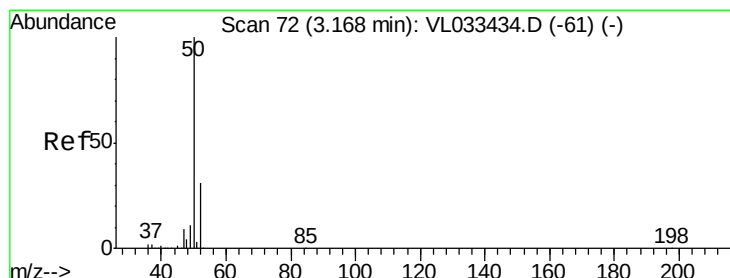
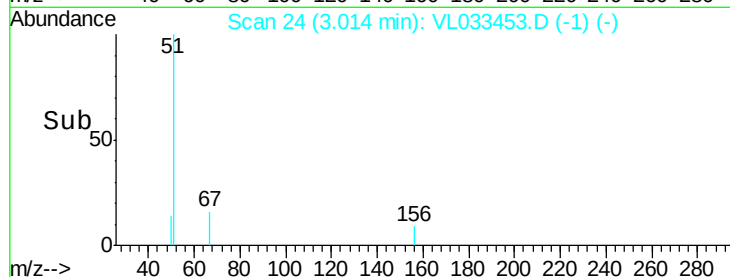
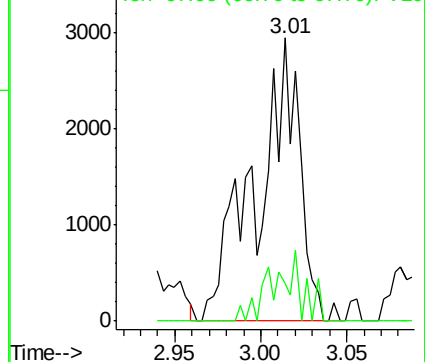
51 100

67 16.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.074 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033453.D

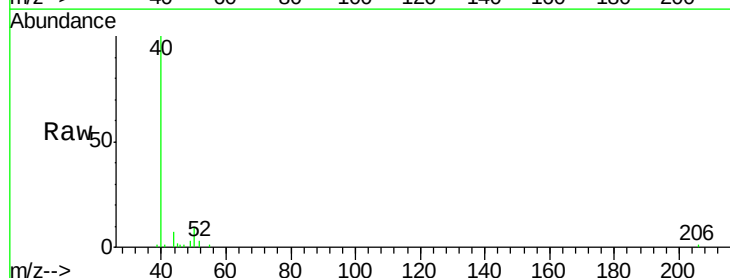
Acq: 26 Mar 2019 2:05

Tgt Ion: 50 Resp: 3583

Ion Ratio Lower Upper

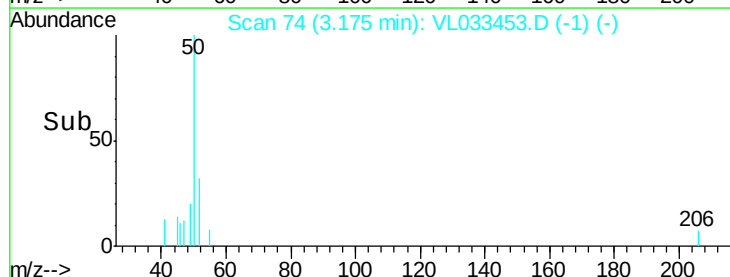
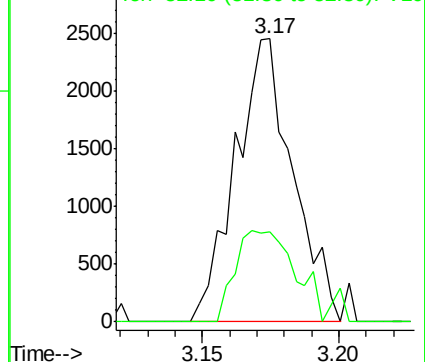
50 100

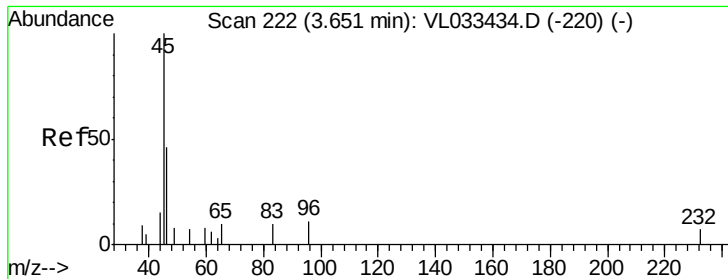
52 31.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

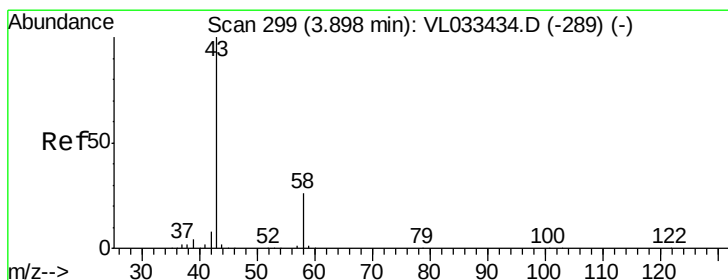
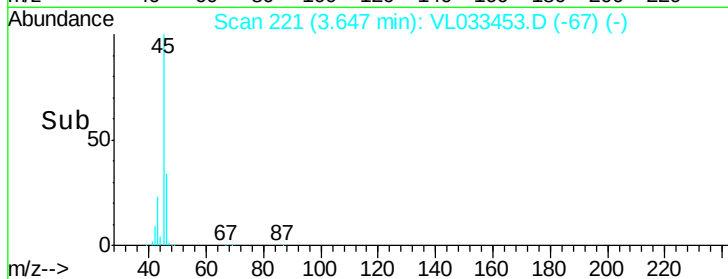
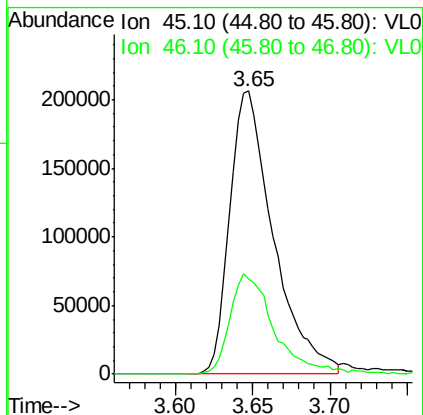
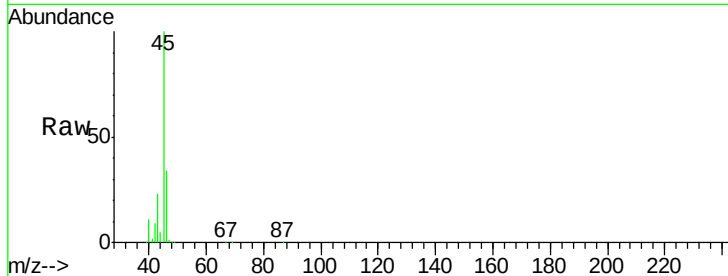




#13
Ethanol
Concen: 44.630 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

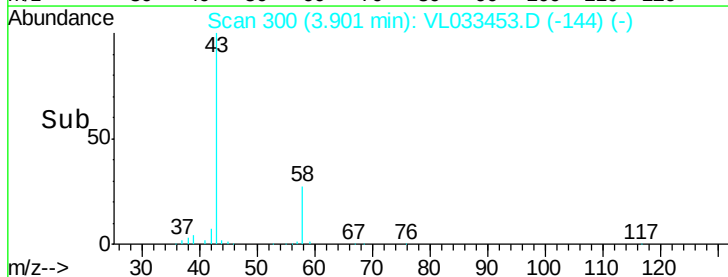
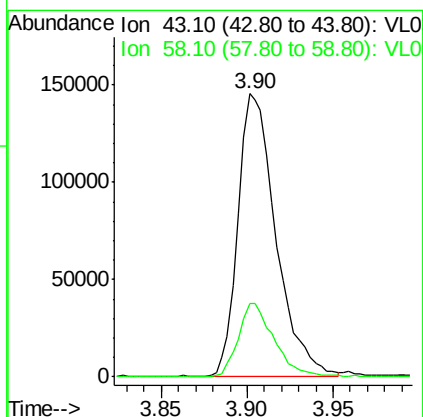
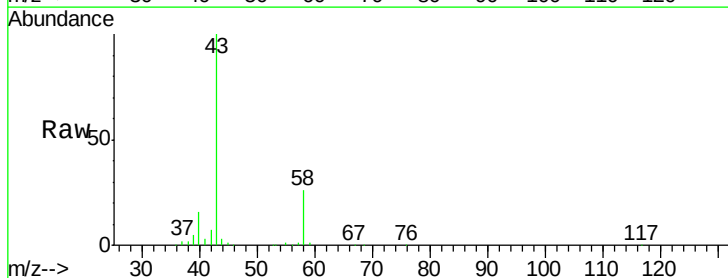
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

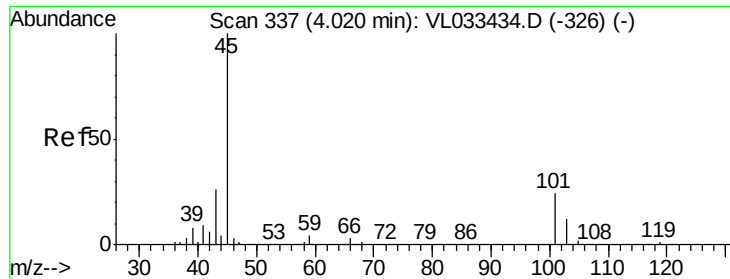
Tgt Ion: 45 Resp: 403748
Ion Ratio Lower Upper
45 100
46 36.1 25.4 101.8



#15
Acetone
Concen: 2.341 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

Tgt Ion: 43 Resp: 223235
Ion Ratio Lower Upper
43 100
58 24.7 20.5 30.7





#19

Isopropyl Alcohol

Concen: 0.111 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033453.D

Acq: 26 Mar 2019 2:05

Instrument :

MSVOA_L

ClientSampleId :

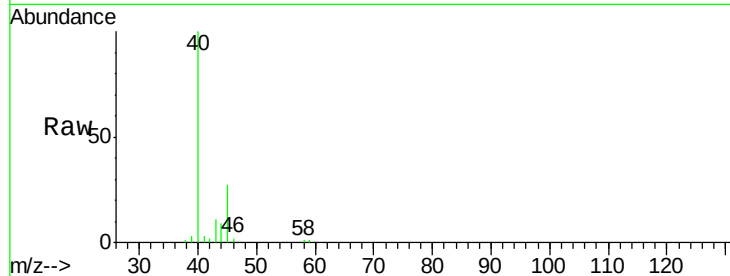
IA-2DL

Tgt Ion: 45 Resp: 6687

Ion Ratio Lower Upper

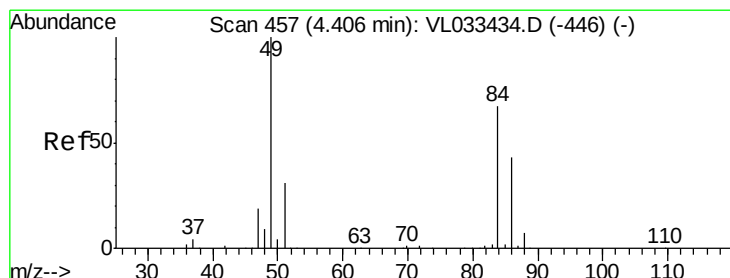
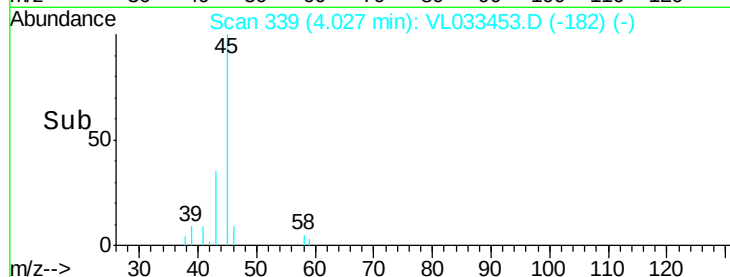
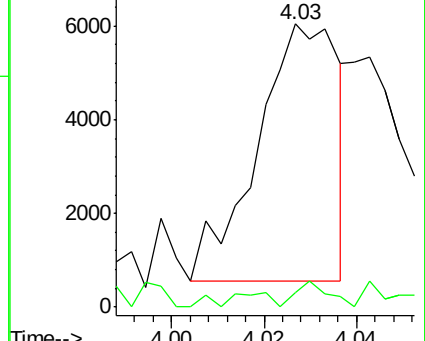
45 100

58 833.1 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.132 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033453.D

Acq: 26 Mar 2019 2:05

Tgt Ion: 84 Resp: 5330

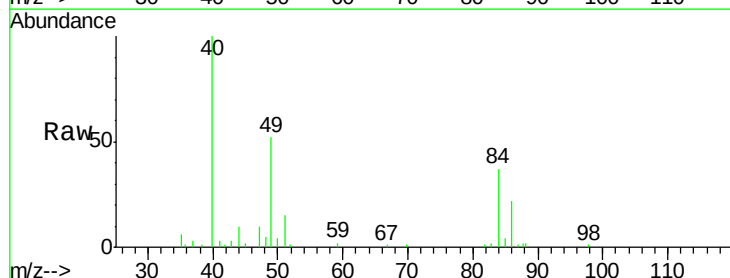
Ion Ratio Lower Upper

84 100

49 140.2 120.0 180.0

51 39.5 36.7 55.1

86 60.1 51.9 77.9

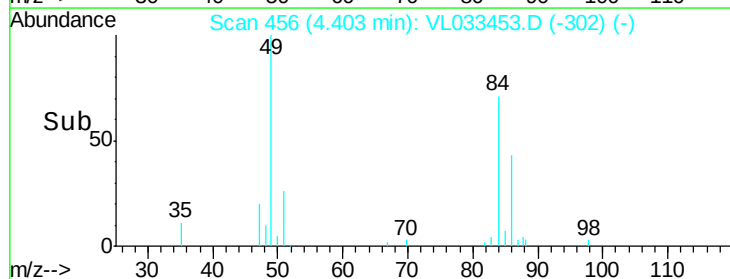
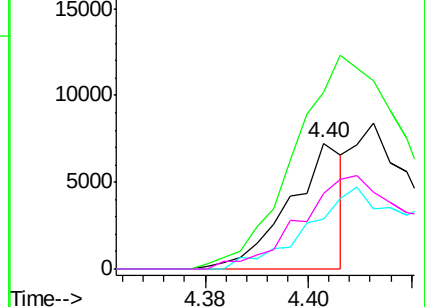


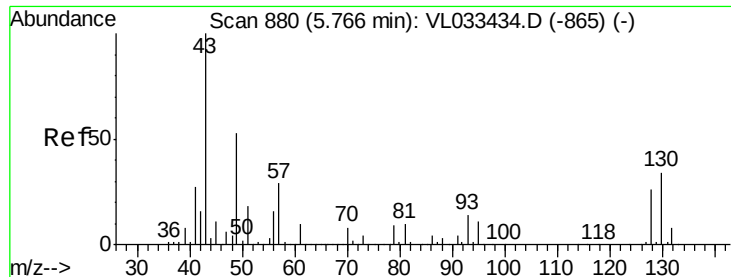
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

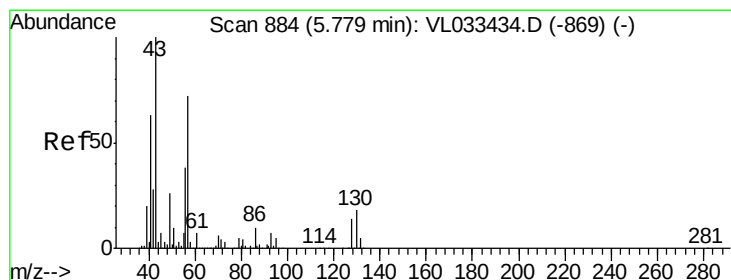
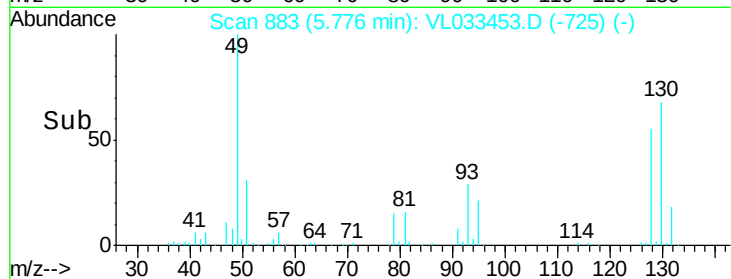
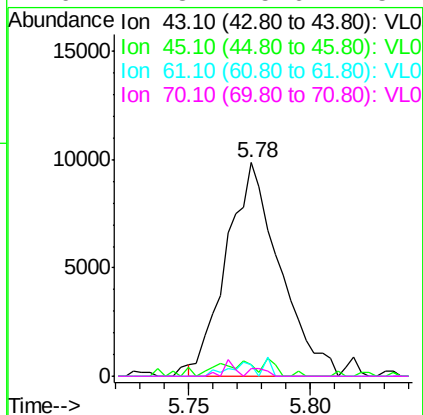
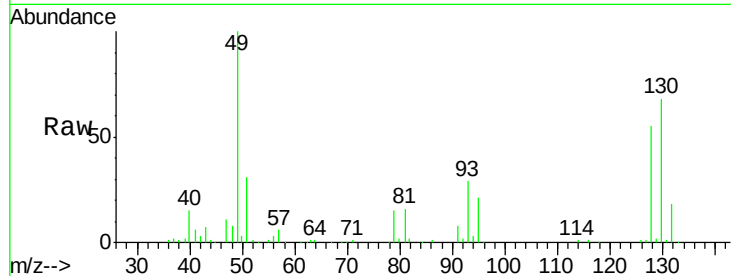




#25
Ethyl Acetate
Concen: 0.084 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

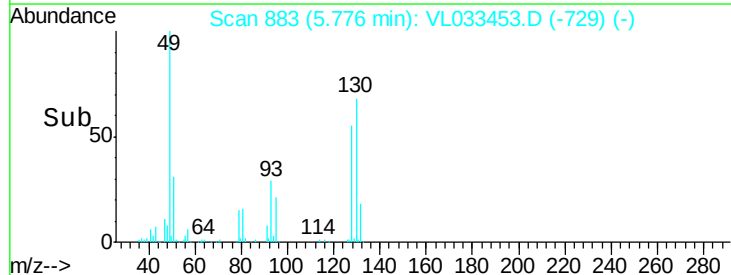
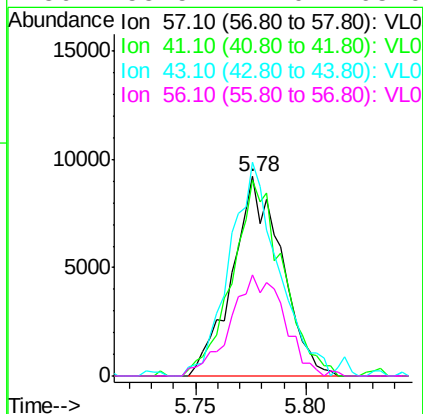
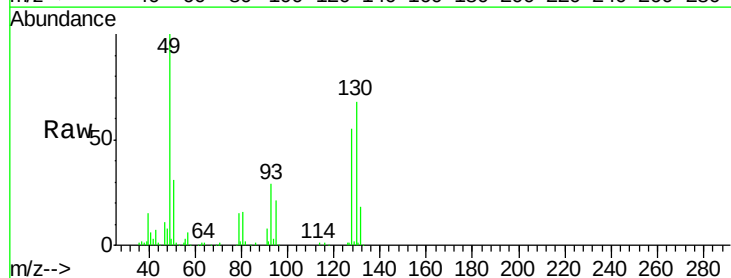
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

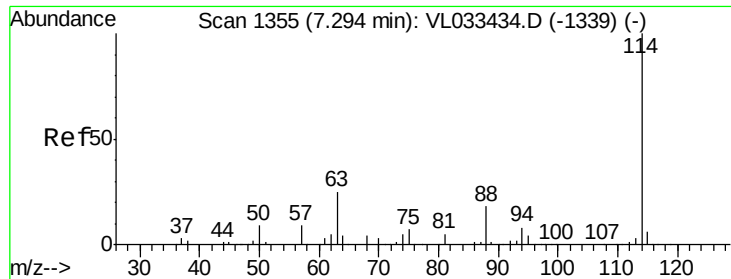
Tgt Ion: 43 Resp: 14944
Ion Ratio Lower Upper
43 100
45 7.0 7.8 11.6#
61 4.0 7.3 10.9#
70 2.8 5.6 8.4#



#26
Hexane
Concen: 0.182 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

Tgt Ion: 57 Resp: 14306
Ion Ratio Lower Upper
57 100
41 101.6 70.7 106.1
43 109.2 182.6 274.0#
56 55.5 42.0 63.0

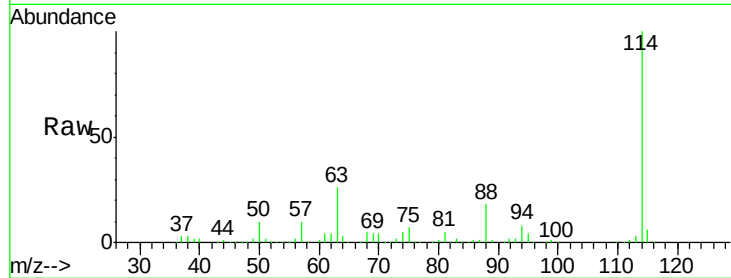




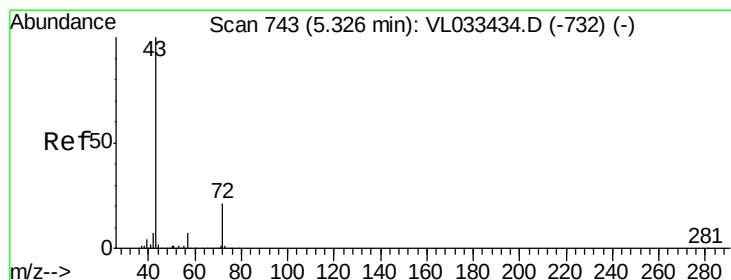
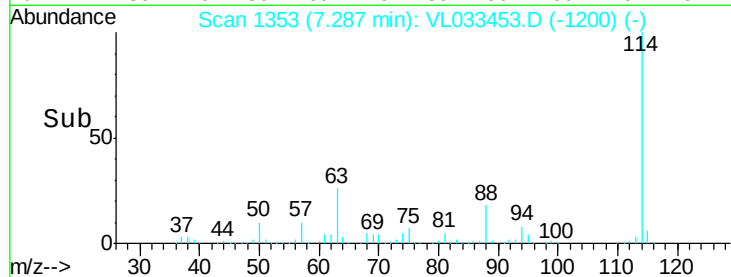
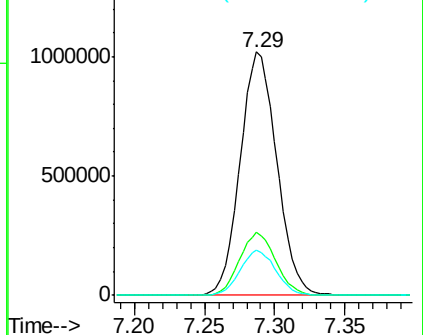
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033453.D
 Acq: 26 Mar 2019 2:05

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tgt Ion: 114 Resp: 1858562
 Ion Ratio Lower Upper
 114 100
 63 25.7 21.5 32.3
 88 18.2 14.5 21.7

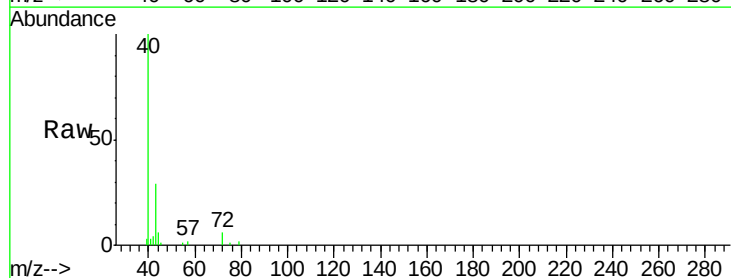


Abundance Ion 114.10 (113.80 to 114.80): V

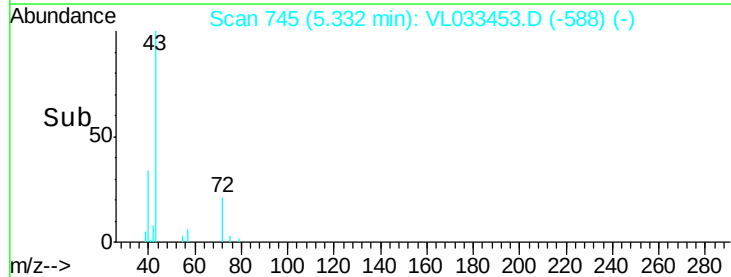
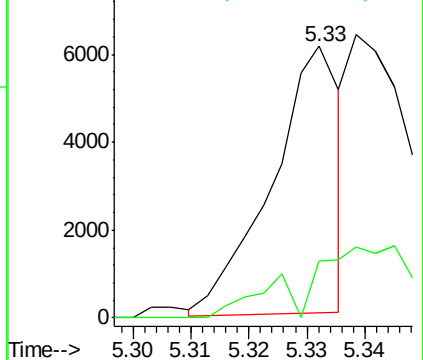


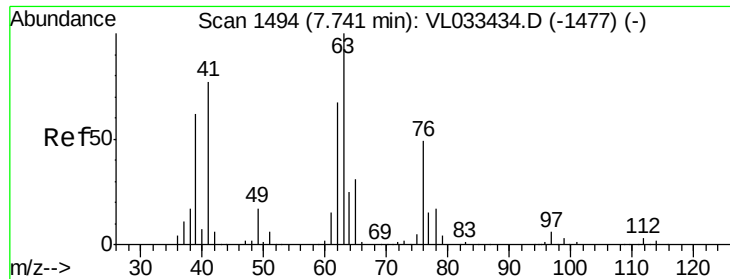
#34
 2-Butanone
 Concen: 0.045 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033453.D
 Acq: 26 Mar 2019 2:05

Tgt Ion: 43 Resp: 4975
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.4 26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

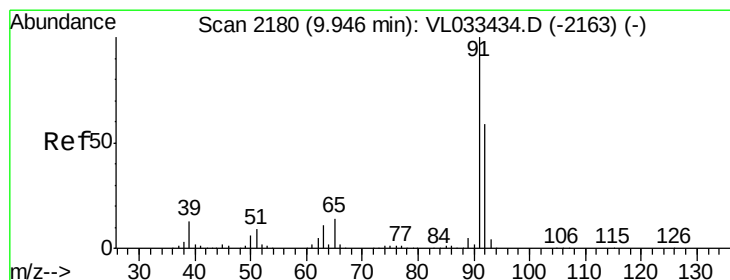
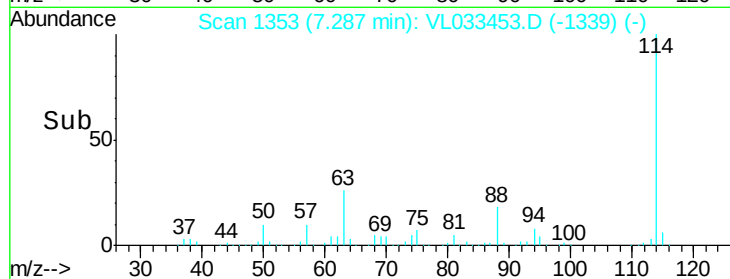
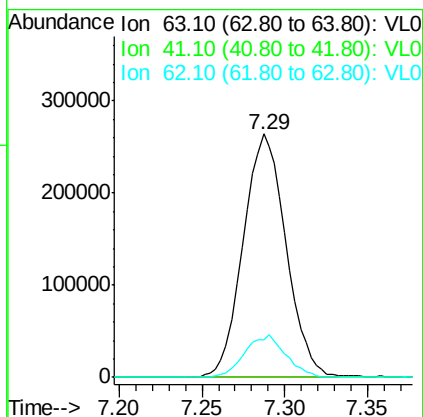
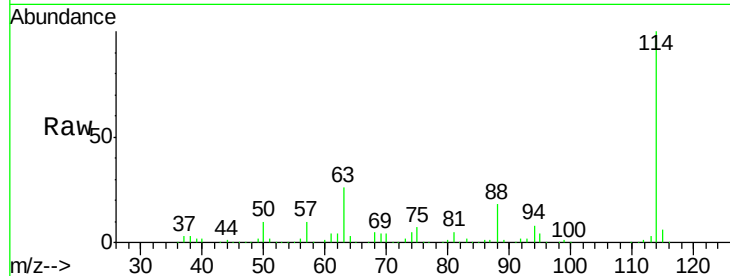




#39
 1,2-Dichloropropane
 Concen: 7.783 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033453.D
 Acq: 26 Mar 2019 2:05

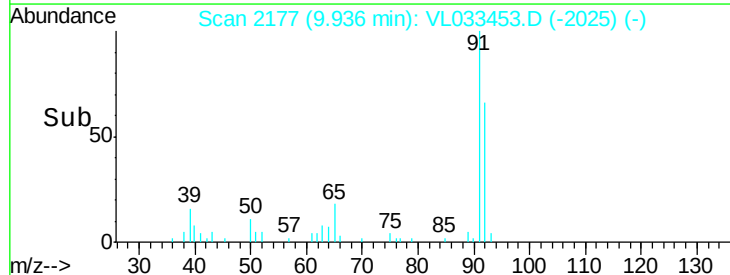
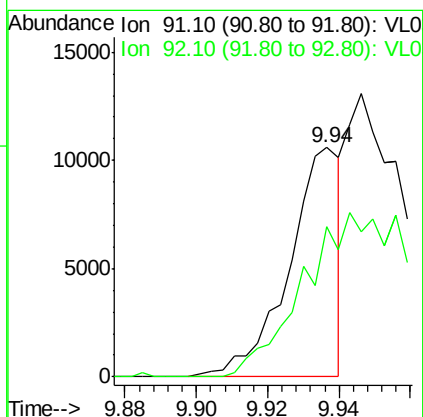
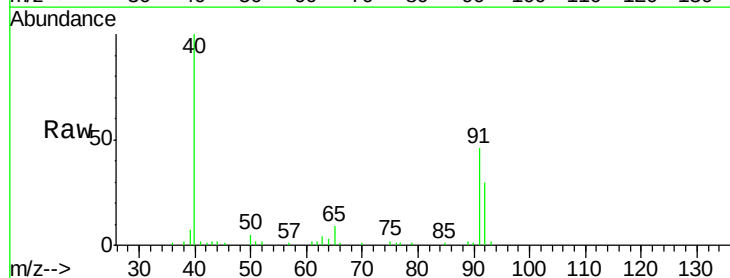
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

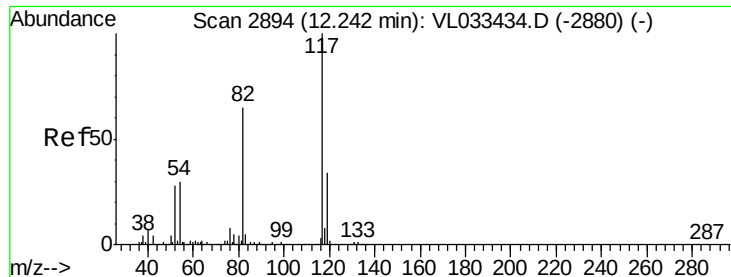
Tgt Ion: 63 Resp: 475472
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 15.4 54.0 81.0#



#53
 Toluene
 Concen: 0.059 ppbv
 RT: 9.94 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: VL033453.D
 Acq: 26 Mar 2019 2:05

Tgt Ion: 91 Resp: 10612
 Ion Ratio Lower Upper
 91 100
 92 0.0 47.4 71.0#

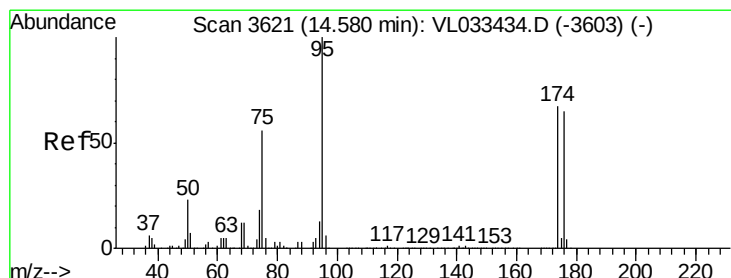
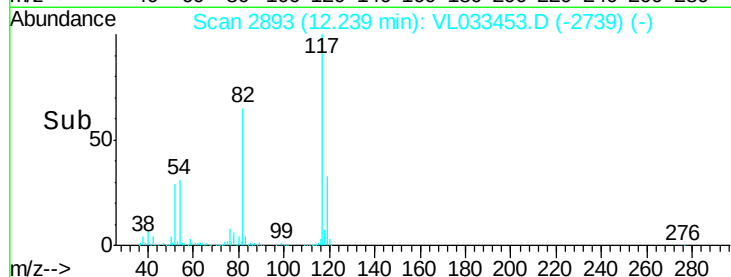
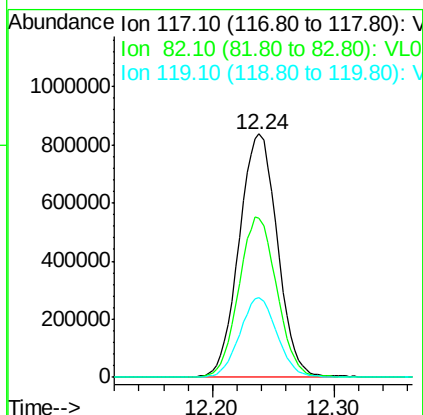
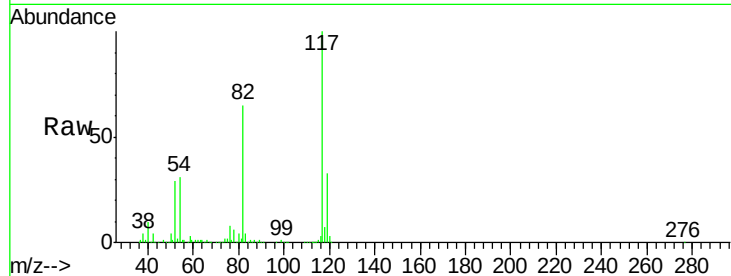




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tgt Ion:117 Resp: 1813091
Ion Ratio Lower Upper
117 100
82 65.7 51.5 77.3
119 32.2 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.881 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033453.D
Acq: 26 Mar 2019 2:05

Tgt Ion: 95 Resp: 1404524
Ion Ratio Lower Upper
95 100
174 66.3 52.9 79.3
175 4.8 3.8 5.6

