

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033488.D
 Acq On : 28 Mar 2019 4:12
 Operator : SY/AP
 Sample : K1991-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:32:43 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	5.76	49	757743	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1879115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2048888	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	1562659	9.73	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%	

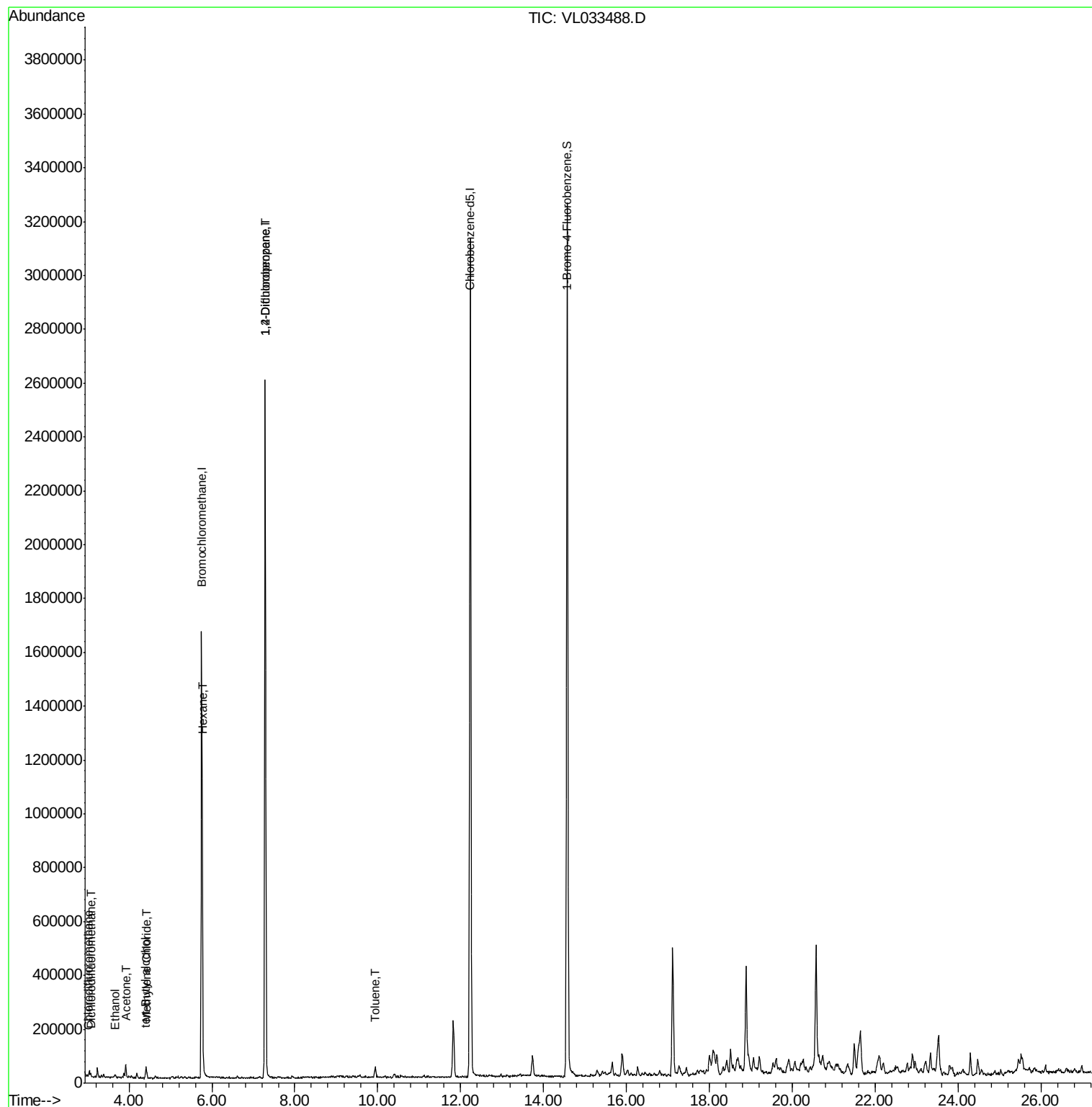
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	8350	0.076	ppbv	92
3) Chlorodifluoromethane	3.02	51	5722	0.066	ppbv #	80
13) Ethanol	3.66	45	5667	0.598	ppbv	93
15) Acetone	3.91	43	36513	0.401	ppbv	92
17) tert-Butyl alcohol	4.39	59	804	0.048	ppbv #	73
20) Methylene Chloride	4.41	84	4762	0.123	ppbv	85
26) Hexane	5.78	57	7565	0.101	ppbv #	52
39) 1,2-Dichloropropane	7.28	63	470505	7.618	ppbv #	23
53) Toluene	9.94	91	30366	0.166	ppbv	97

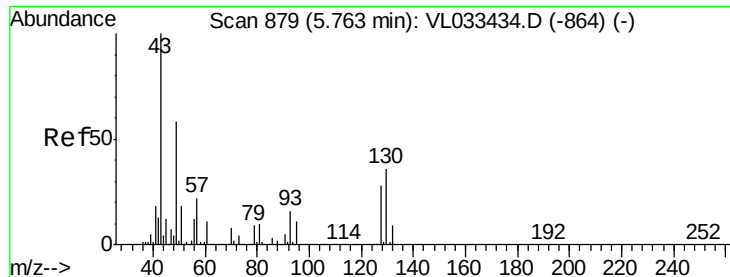
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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QLast Update : Tue Mar 26 16:00:50 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampleId :

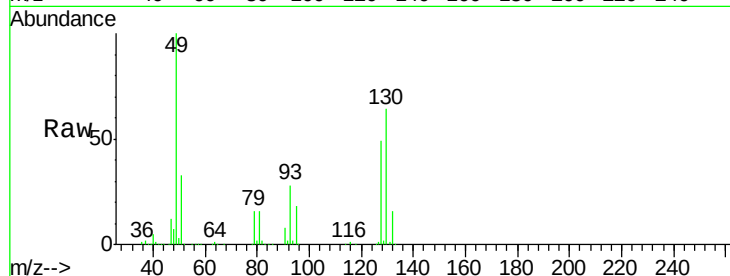
Tot Ion: 49 Resp: 757743

Ion Ratio Lower Upper

49 100

128 51.1 24.0 72.0

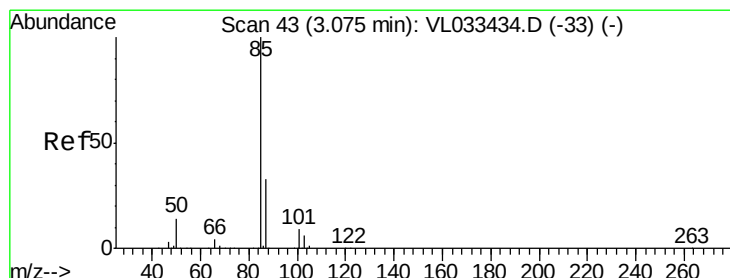
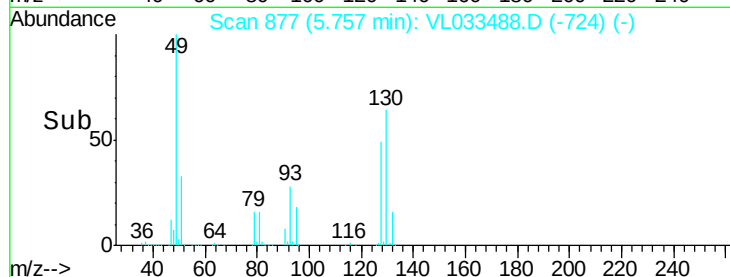
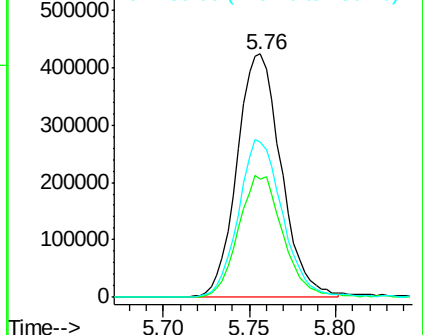
130 64.8 31.2 93.6



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: 0.076 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033488.D

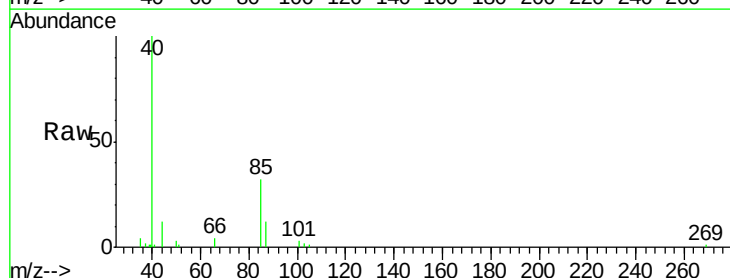
Acq: 28 Mar 2019 4:12

Tgt Ion: 85 Resp: 8350

Ion Ratio Lower Upper

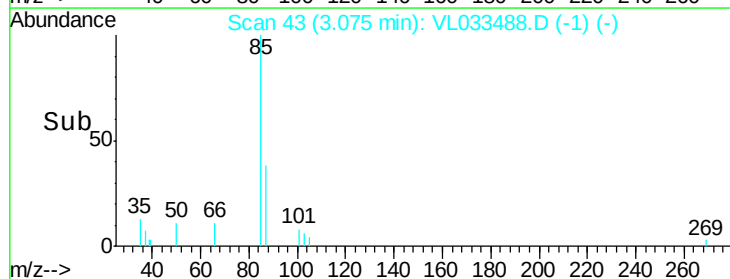
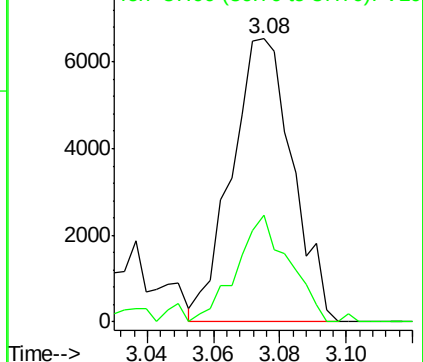
85 100

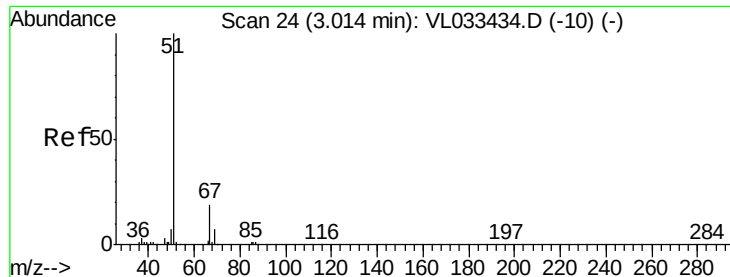
87 37.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

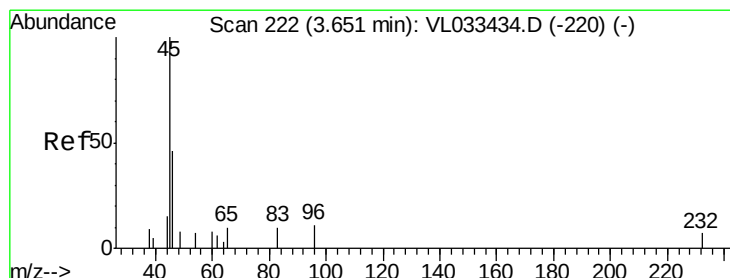
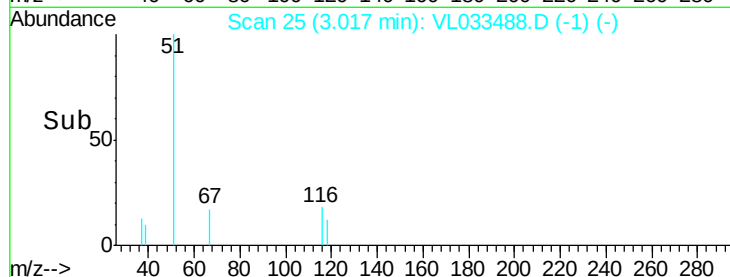
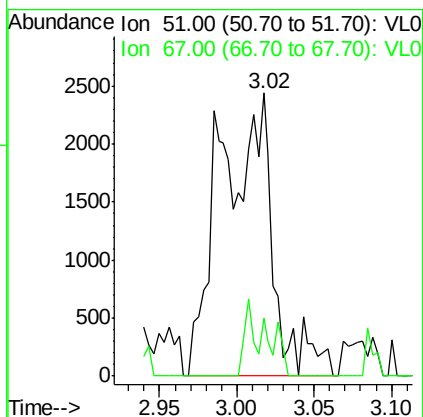
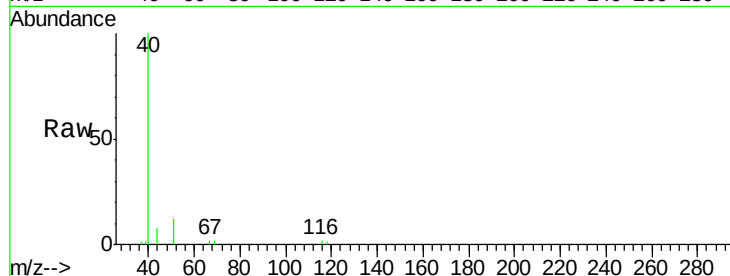




#3
 Chlorodifluoromethane
 Concen: 0.066 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033488.D
 Acq: 28 Mar 2019 4:12

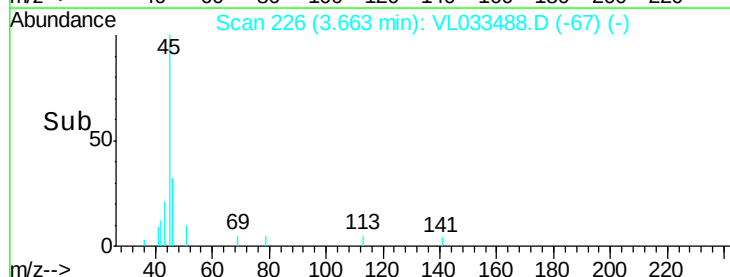
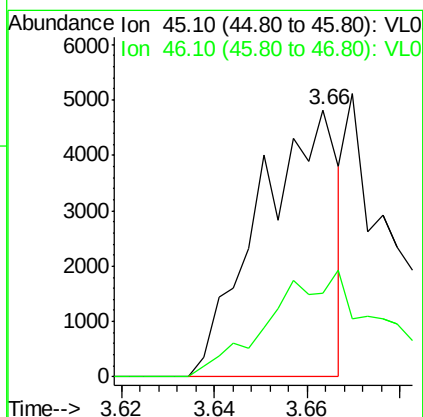
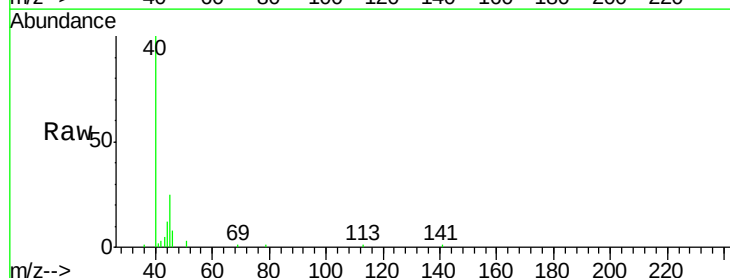
Instrument :
 MSVOA_L
 ClientSampled :

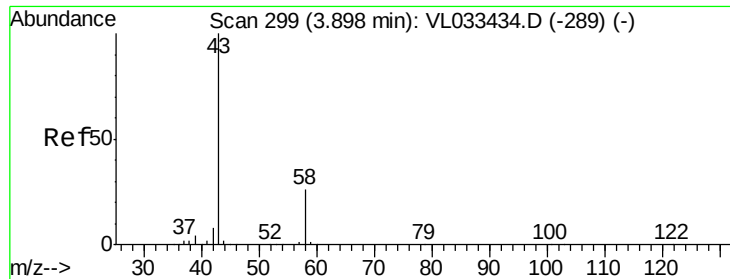
Tot Ion: 51 Resp: 5722
 Ion Ratio Lower Upper
 51 100
 67 10.7 15.7 23.5#



#13
 Ethanol
 Concen: 0.598 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL033488.D
 Acq: 28 Mar 2019 4:12

Tgt Ion: 45 Resp: 5667
 Ion Ratio Lower Upper
 45 100
 46 58.2 25.4 101.8





#15

Acetone

Concen: 0.401 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

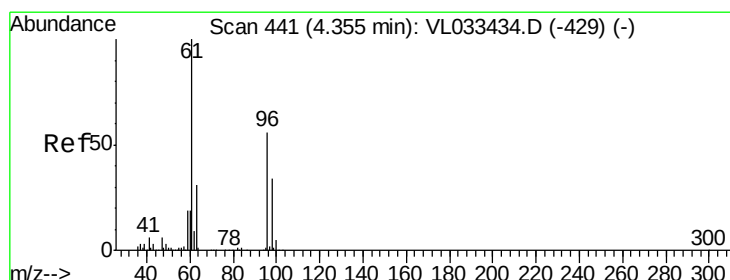
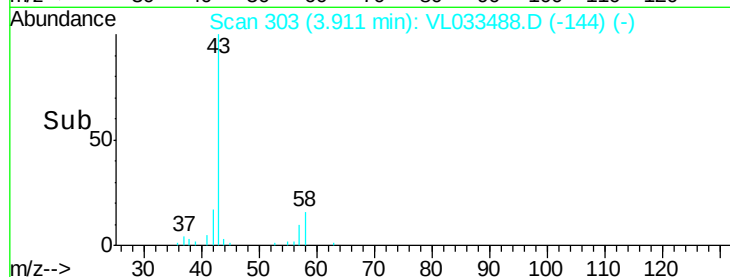
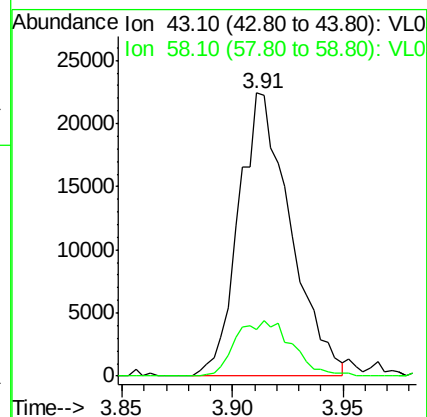
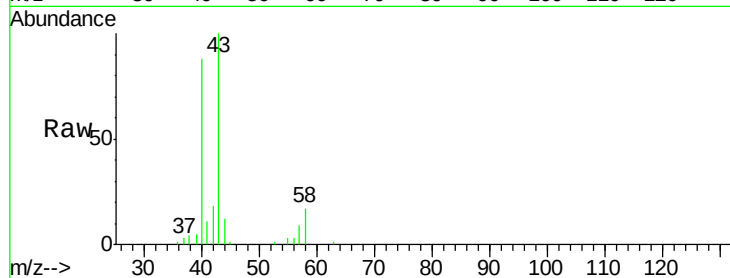
ClientSampleId :

Tot Ion: 43 Resp: 36513

Ion Ratio Lower Upper

43 100

58 21.4 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 4.39 min Scan# 451

Delta R.T. 0.03 min

Lab File: VL033488.D

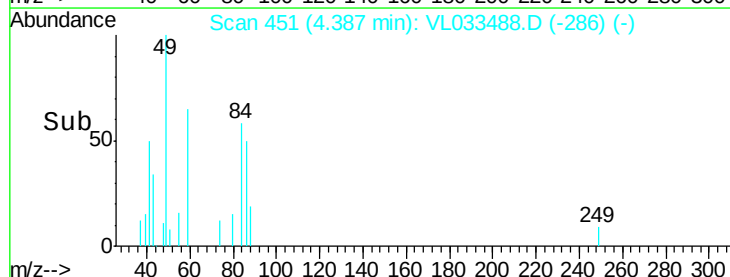
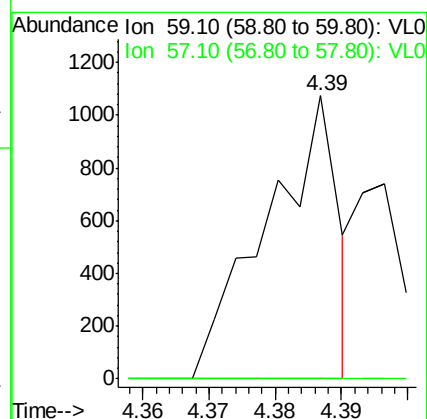
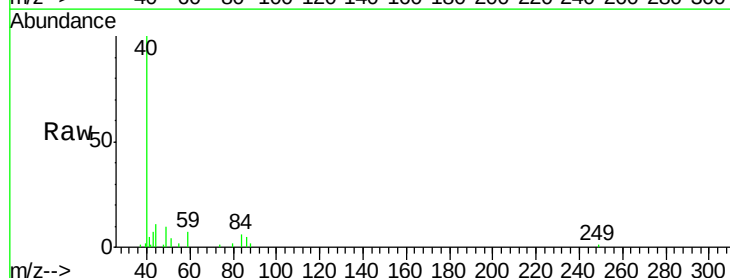
Acq: 28 Mar 2019 4:12

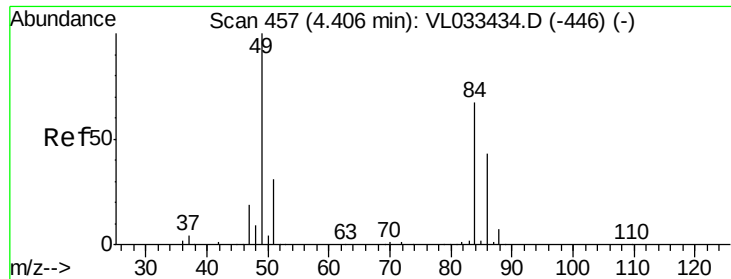
Tgt Ion: 59 Resp: 804

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

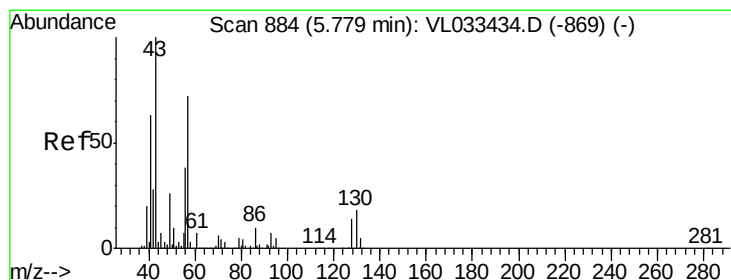
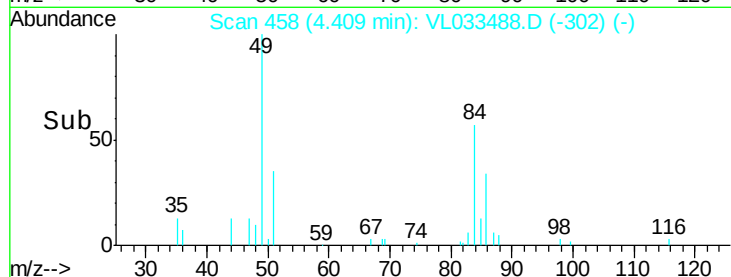
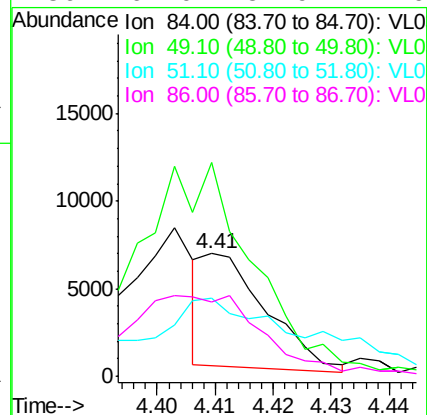
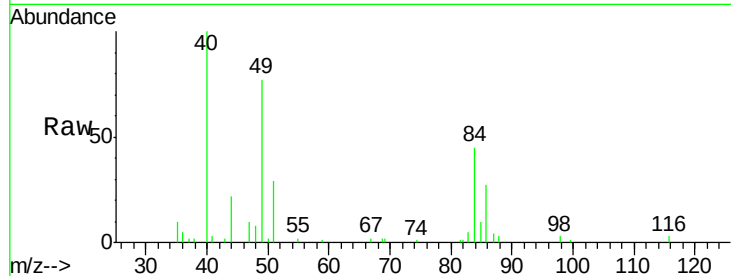




#20
Methylene Chloride
Concen: 0.123 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033488.D
Acq: 28 Mar 2019 4:12

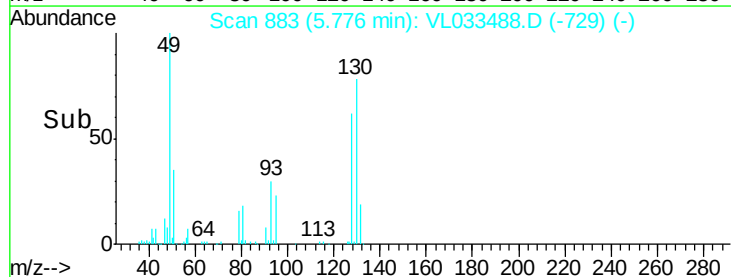
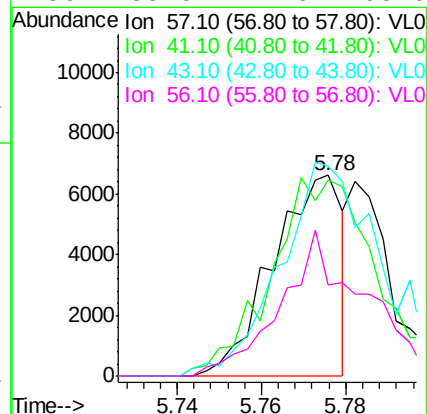
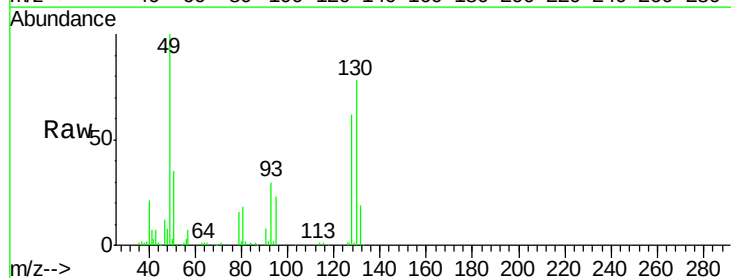
Instrument :
MSVOA_L
ClientSampled :

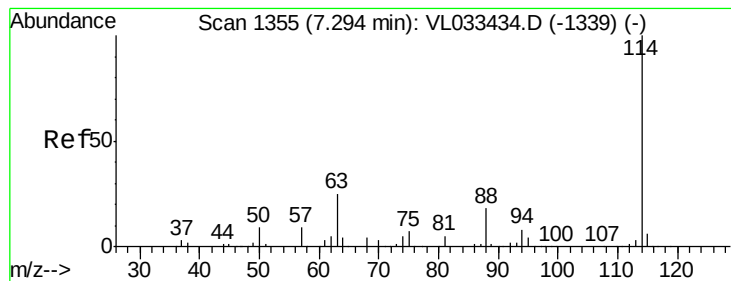
Tot Ion: 84 Resp: 4762
Ion Ratio Lower Upper
84 100
49 176.3 120.0 180.0
51 37.9 36.7 55.1
86 61.0 51.9 77.9



#26
Hexane
Concen: 0.101 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033488.D
Acq: 28 Mar 2019 4:12

Tgt Ion: 57 Resp: 7565
Ion Ratio Lower Upper
57 100
41 147.3 70.7 106.1#
43 158.4 182.6 274.0#
56 85.5 42.0 63.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampleId :

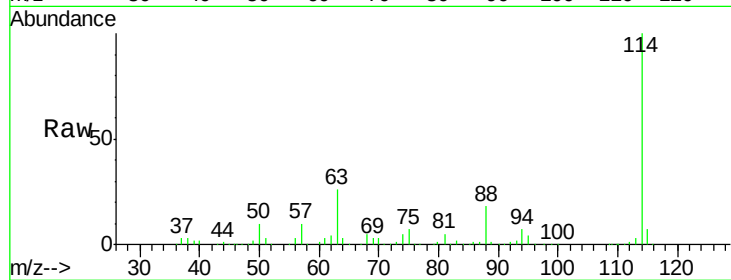
Tot Ion:114 Resp: 1879115

Ion Ratio Lower Upper

114 100

63 25.2 21.5 32.3

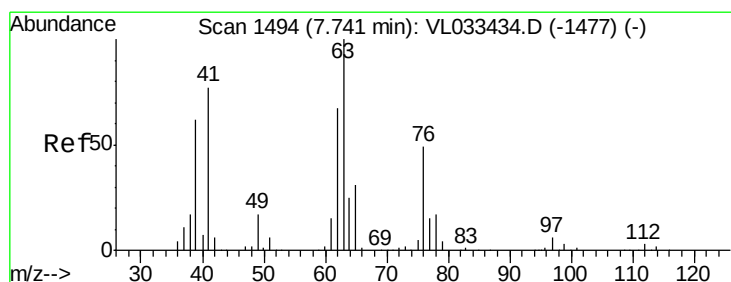
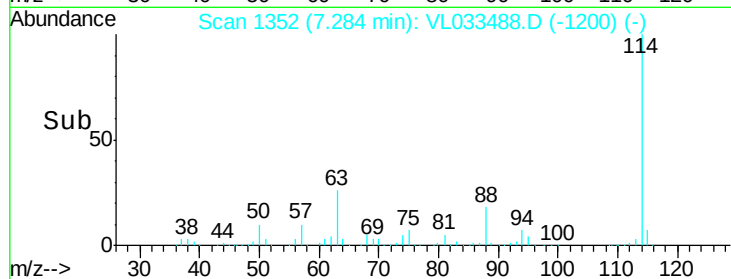
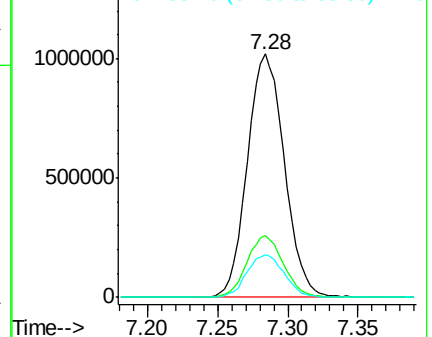
88 17.7 14.5 21.7



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



#39

1,2-Dichloropropane

Concen: 7.618 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

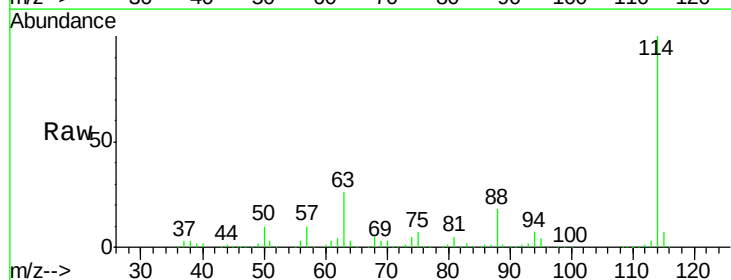
Tgt Ion: 63 Resp: 470505

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

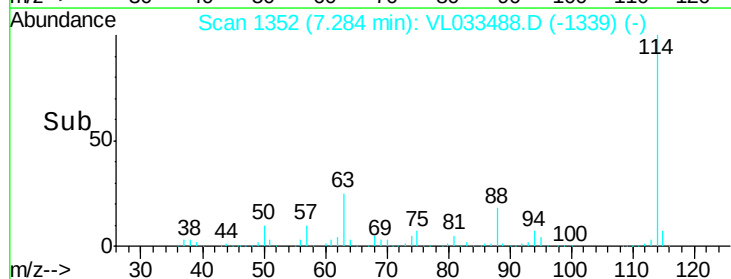
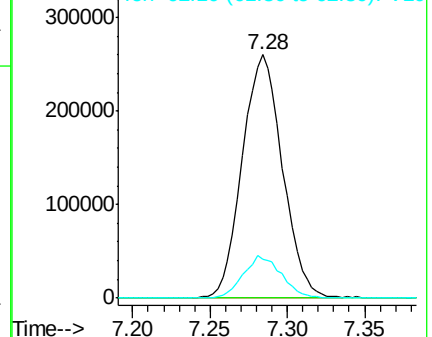
62 16.2 54.0 81.0#

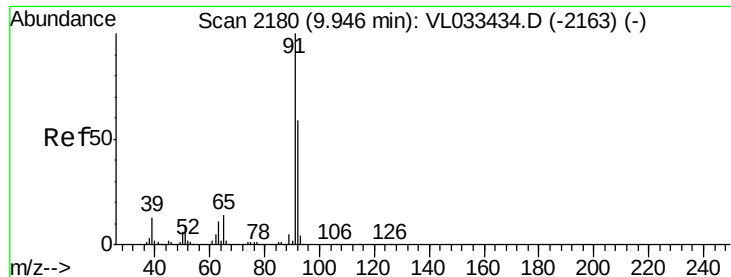


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.166 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

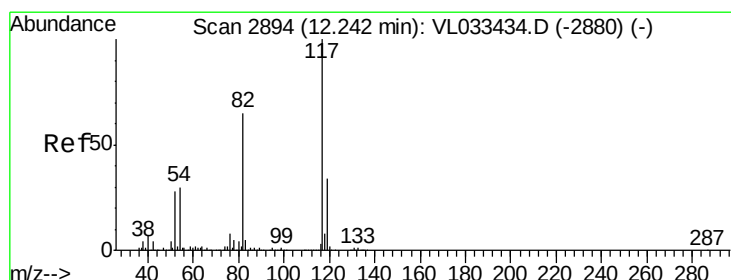
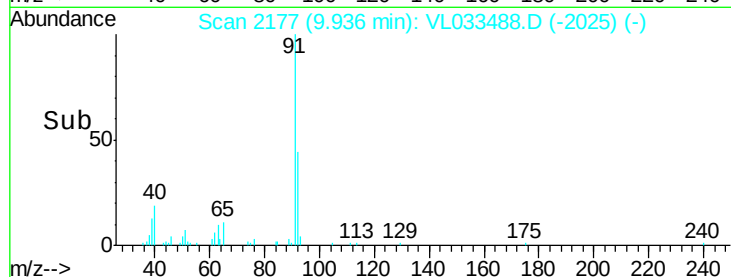
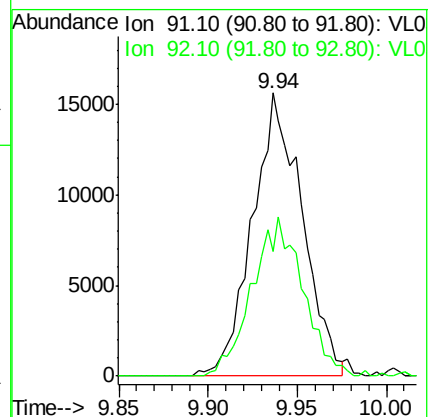
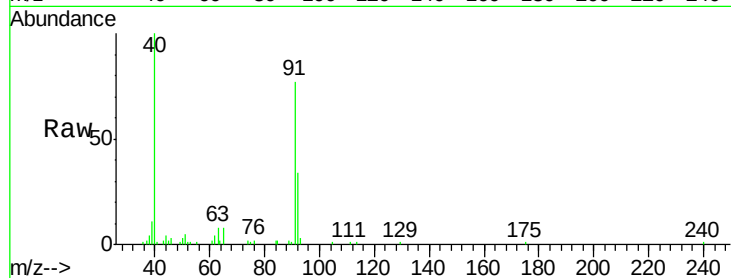
ClientSampleId :

Tot Ion: 91 Resp: 30366

Ion Ratio Lower Upper

91 100

92 57.1 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: VL033488.D

Acq: 28 Mar 2019 4:12

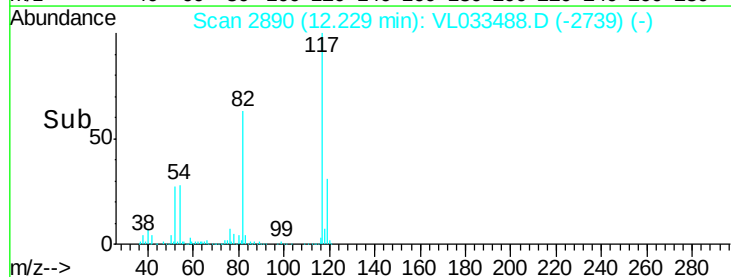
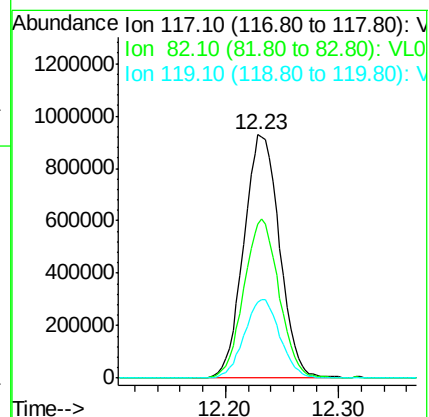
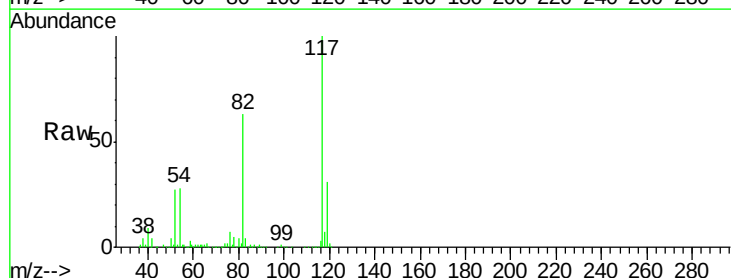
Tgt Ion: 117 Resp: 2048888

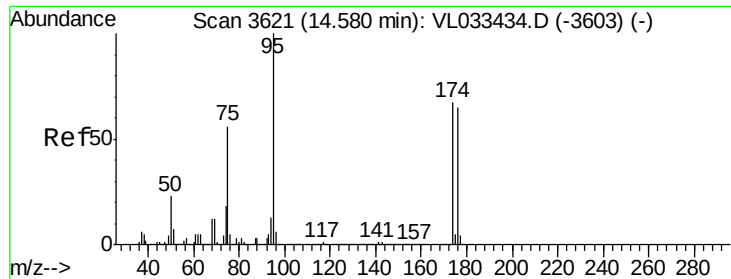
Ion Ratio Lower Upper

117 100

82 64.3 51.5 77.3

119 32.1 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.729 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampleId :

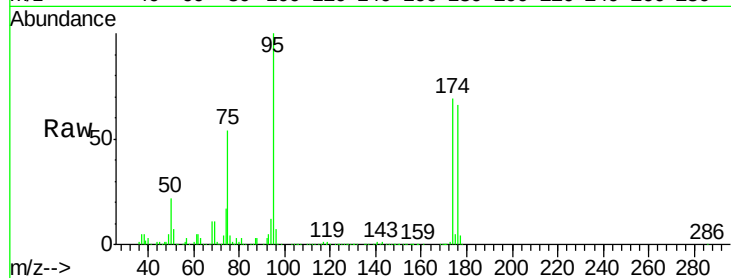
Tot Ion: 95 Resp: 1562659

Ion Ratio Lower Upper

95 100

174 67.6 52.9 79.3

175 4.8 3.8 5.6



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

