

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033543.D
 Acq On : 4 Apr 2019 21:36
 Operator : SY/AP
 Sample : K2096-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4DL

Quant Time: Apr 05 03:20:35 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	1211767	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2730156	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2727129	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2141682	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

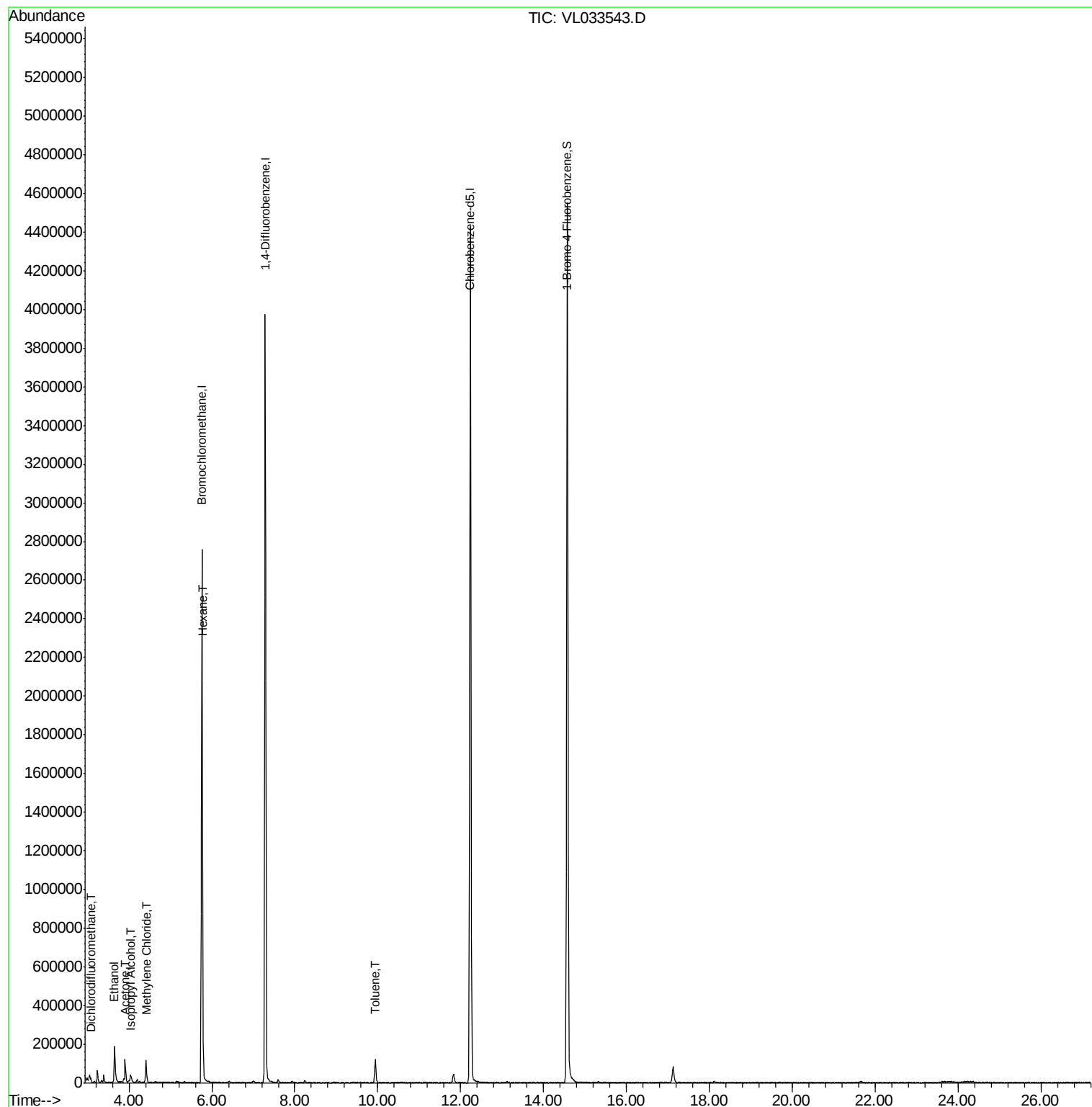
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	14469	0.082	ppbv	97
13) Ethanol	3.65	45	194121	12.804	ppbv	65
15) Acetone	3.90	43	107483	0.738	ppbv	96
19) Isopropyl Alcohol	4.04	45	44384	0.482	ppbv #	91
20) Methylene Chloride	4.41	84	38631	0.625	ppbv	88
26) Hexane	5.78	57	43815	0.365	ppbv #	47
53) Toluene	9.94	91	90400	0.340	ppbv	96

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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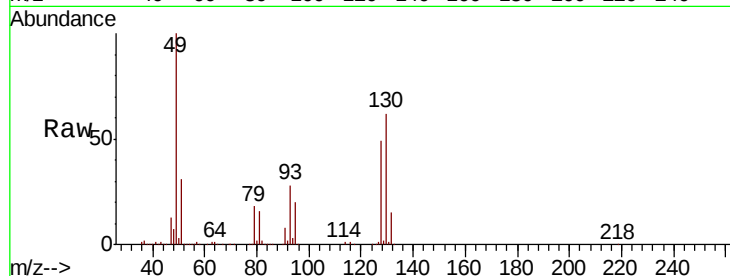
Tot Ion: 49 Resp: 1211767

Ion Ratio Lower Upper

49 100

128 48.7 24.0 72.0

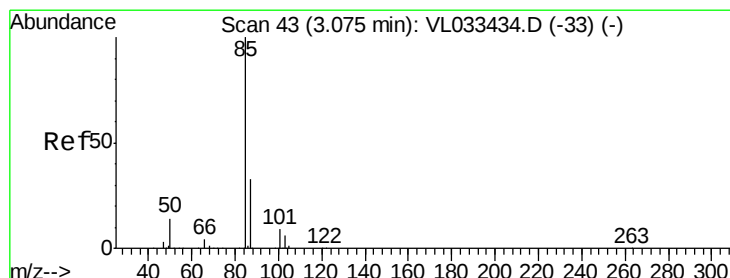
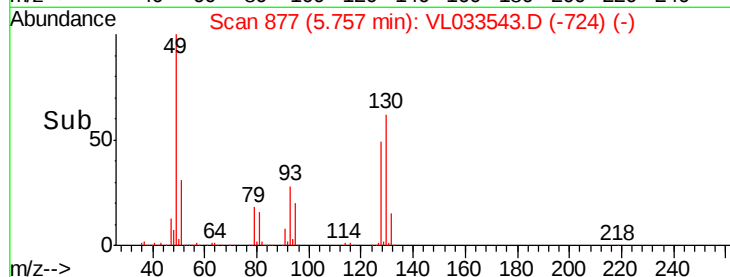
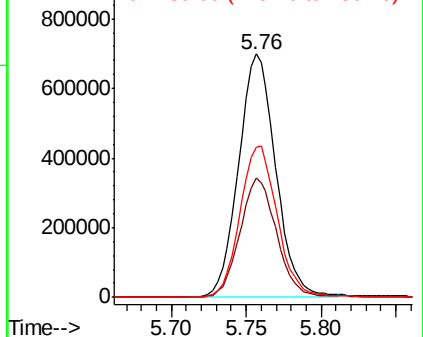
130 62.4 31.2 93.6



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: 0.082 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033543.D

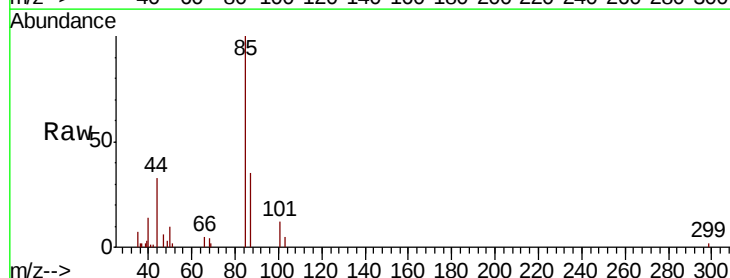
Acq: 4 Apr 2019 21:36

Tgt Ion: 85 Resp: 14469

Ion Ratio Lower Upper

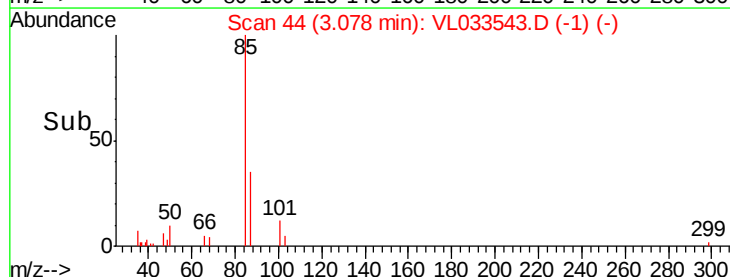
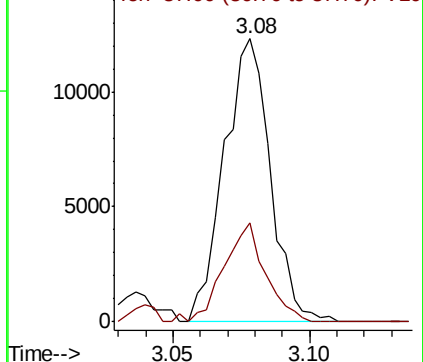
85 100

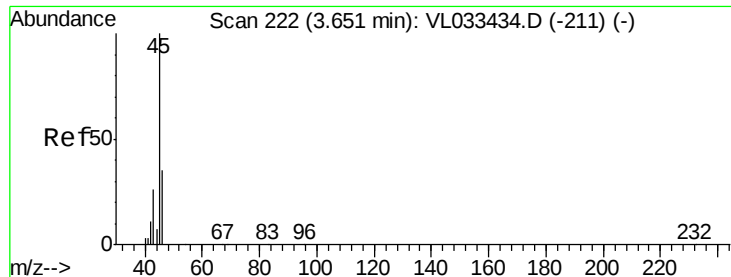
87 34.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#13

Ethanol

Concen: 12.804 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033543.D

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ClientSampleId :

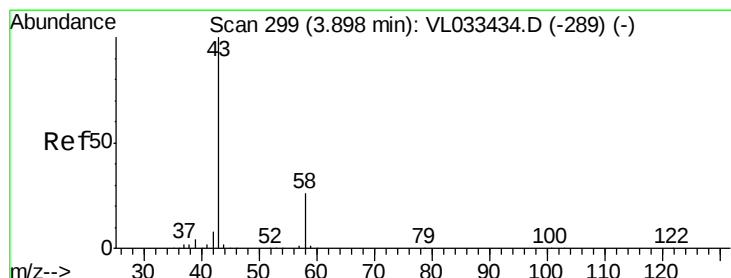
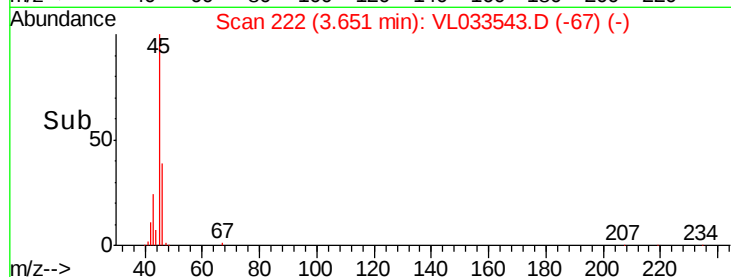
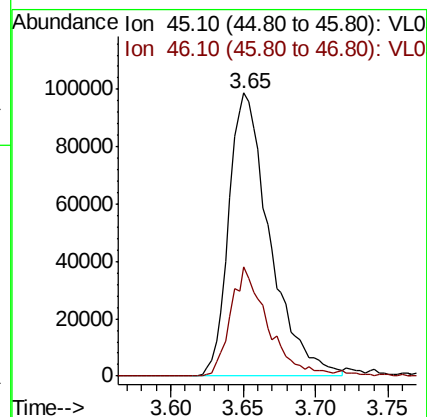
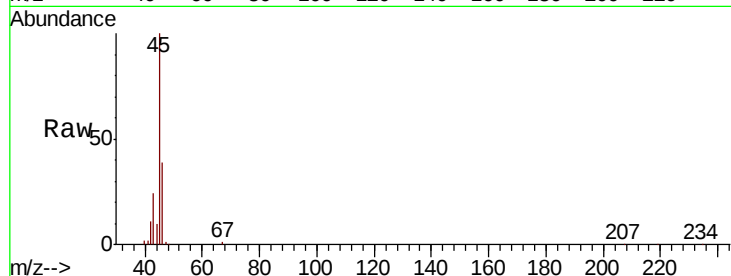
A-4DL

Tot Ion: 45 Resp: 194121

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8



#15

Acetone

Concen: 0.738 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033543.D

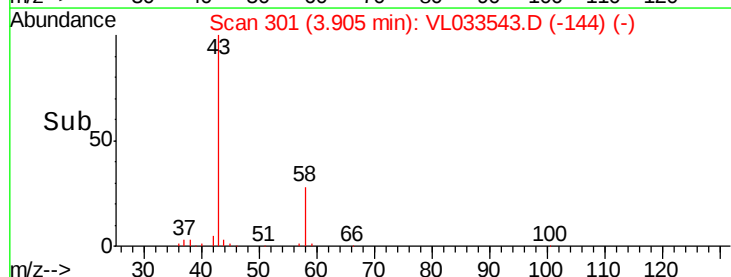
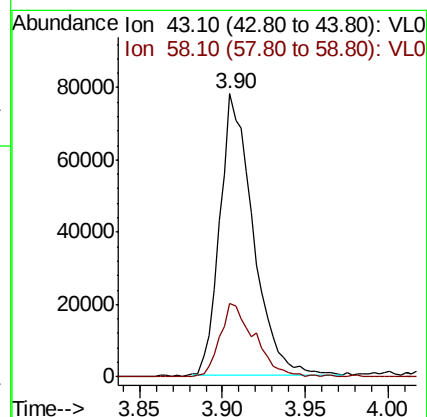
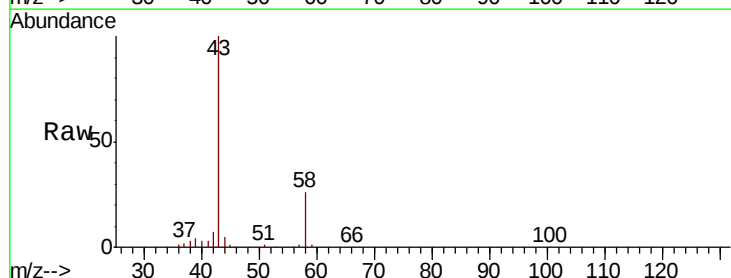
Acq: 4 Apr 2019 21:36

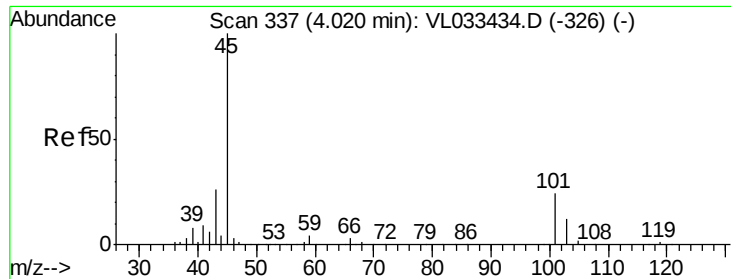
Tgt Ion: 43 Resp: 107483

Ion Ratio Lower Upper

43 100

58 27.8 20.5 30.7





#19

Isopropyl Alcohol

Concen: 0.482 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033543.D

Acq: 4 Apr 2019 21:36

Instrument :

MSVOA_L

ClientSampleId :

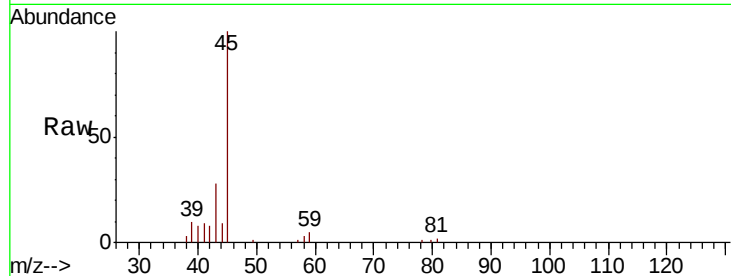
A-4DL

Tot Ion: 45 Resp: 44384

Ion Ratio Lower Upper

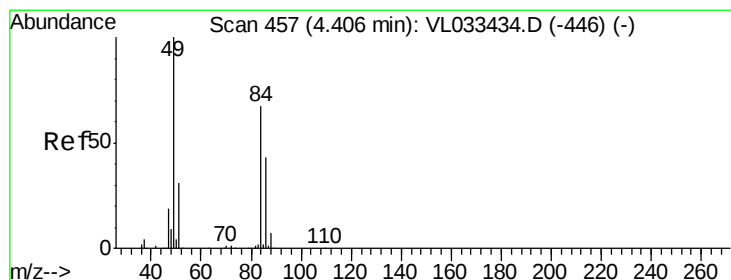
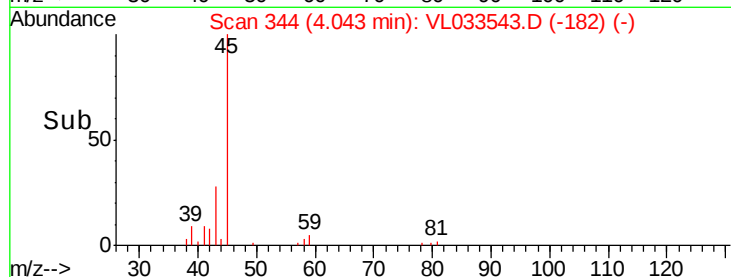
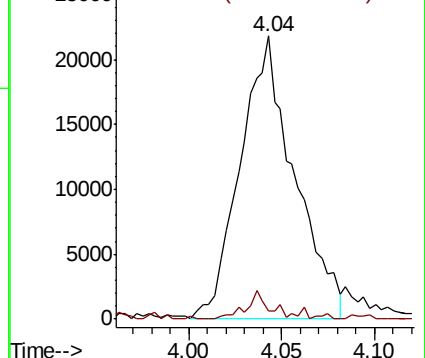
45 100

58 4.9 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: 0.625 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033543.D

Acq: 4 Apr 2019 21:36

Tgt Ion: 84 Resp: 38631

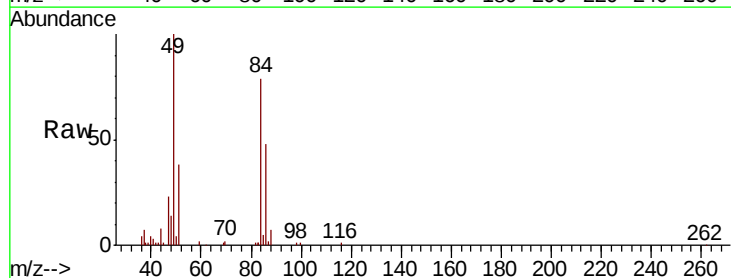
Ion Ratio Lower Upper

84 100

49 127.2 120.0 180.0

51 46.6 36.7 55.1

86 60.0 51.9 77.9

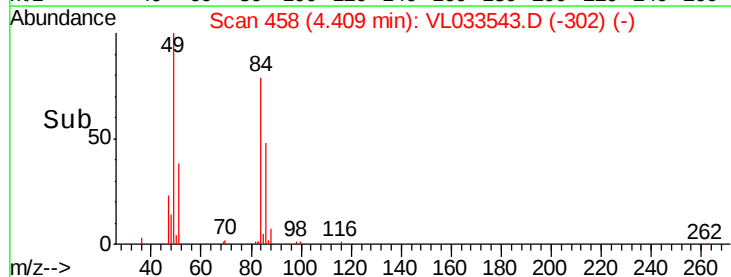
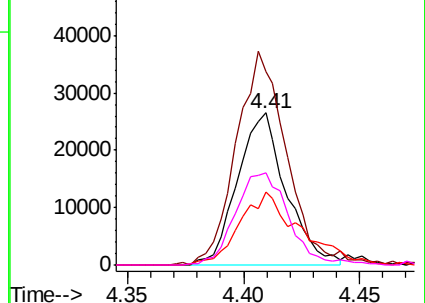


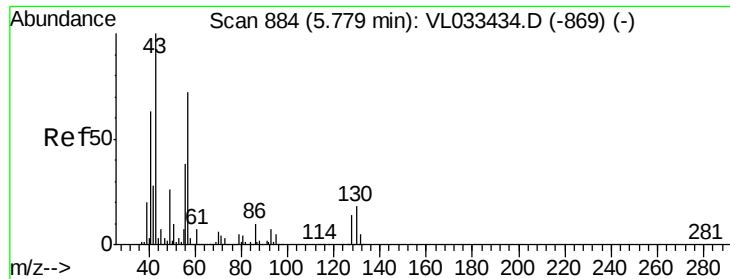
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

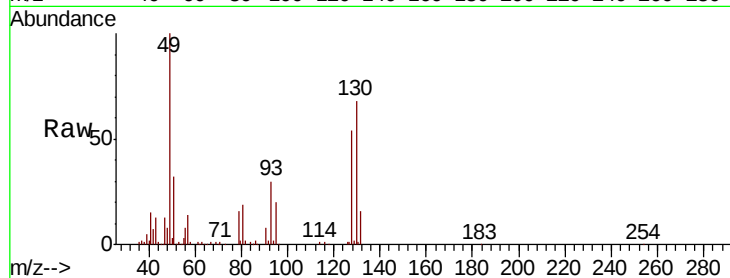




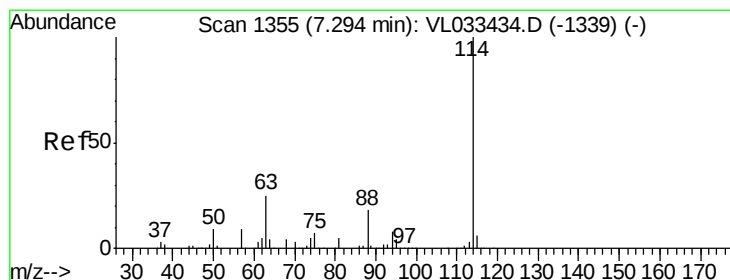
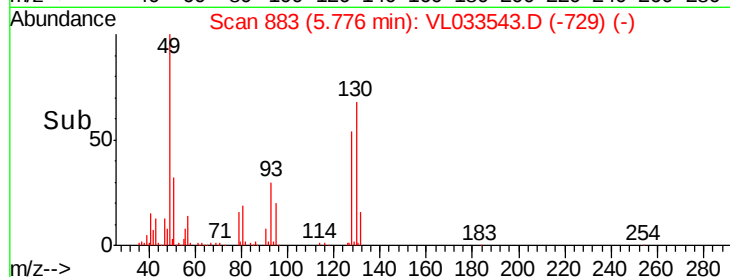
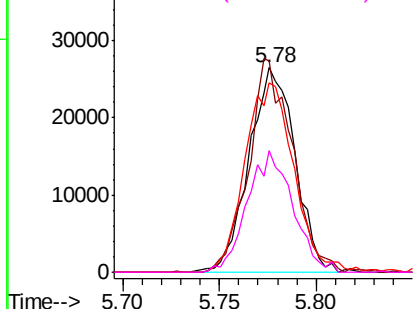
#26
Hexane
Concen: 0.365 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033543.D
Acq: 4 Apr 2019 21:36

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Tot Ion: 57 Resp: 43815
Ion Ratio Lower Upper
57 100
41 100.1 70.7 106.1
43 99.2 182.6 274.0#
56 58.5 42.0 63.0

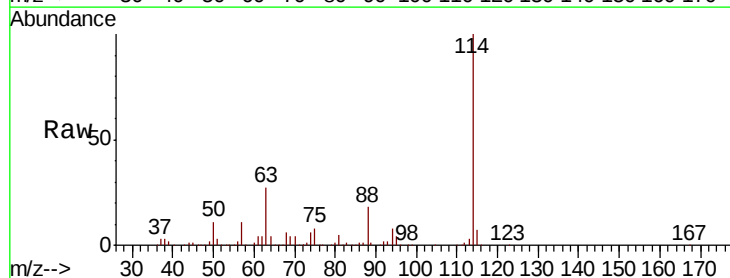


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

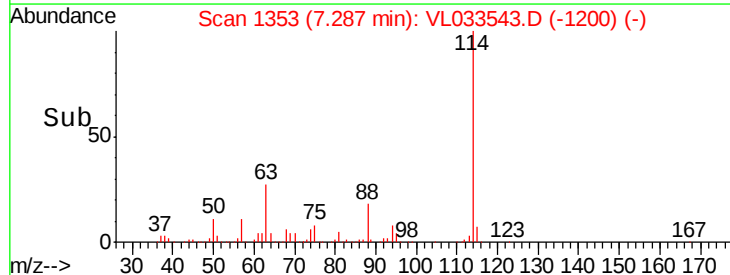
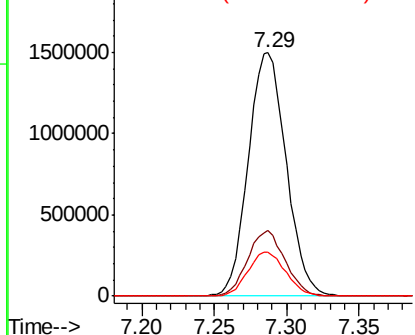


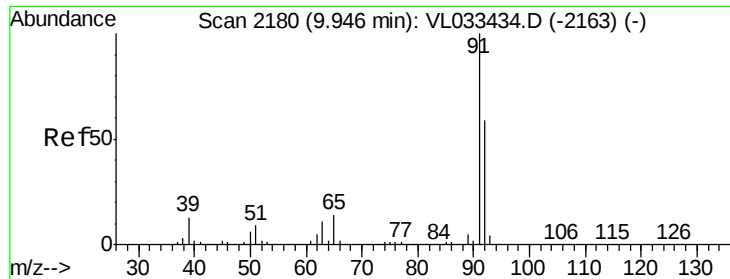
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033543.D
Acq: 4 Apr 2019 21:36

Tgt Ion:114 Resp: 2730156
Ion Ratio Lower Upper
114 100
63 26.7 21.5 32.3
88 18.1 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





#53

Toluene

Concen: 0.340 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033543.D

Acq: 4 Apr 2019 21:36

Instrument :

MSVOA_L

ClientSampleId :

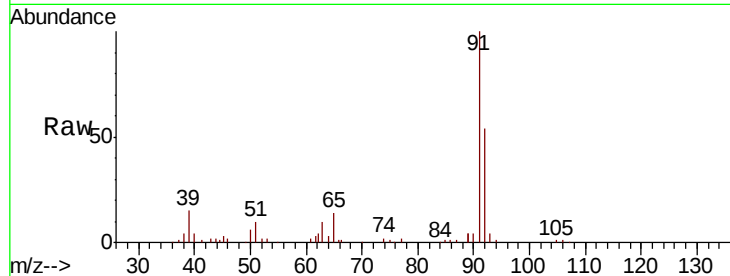
A-4DL

Tot Ion: 91 Resp: 90400

Ion Ratio Lower Upper

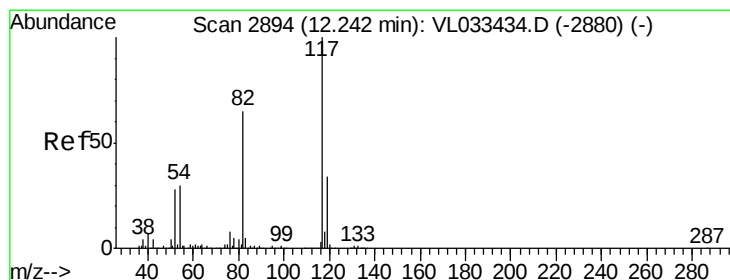
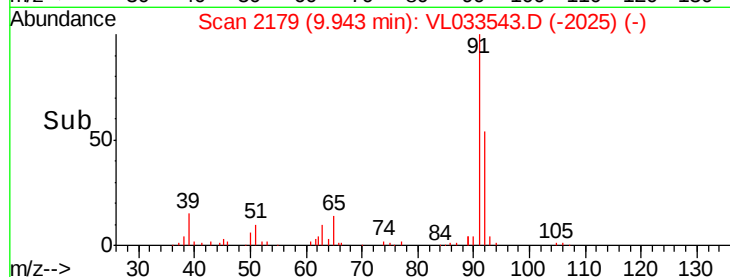
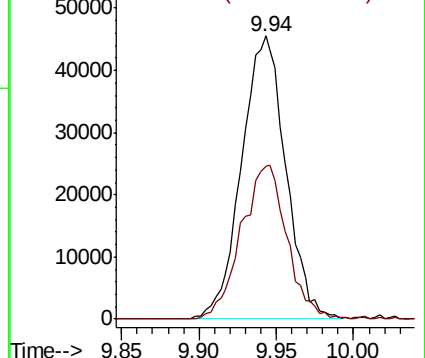
91 100

92 56.0 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033543.D

Acq: 4 Apr 2019 21:36

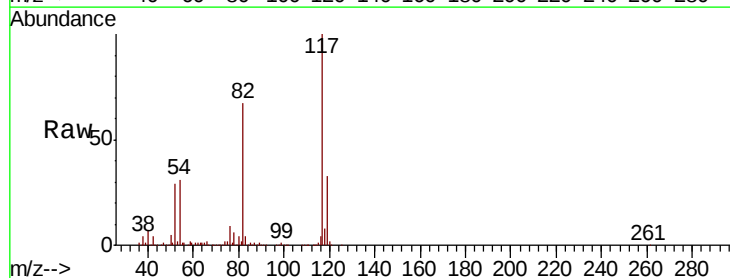
Tgt Ion: 117 Resp: 2727129

Ion Ratio Lower Upper

117 100

82 66.3 51.5 77.3

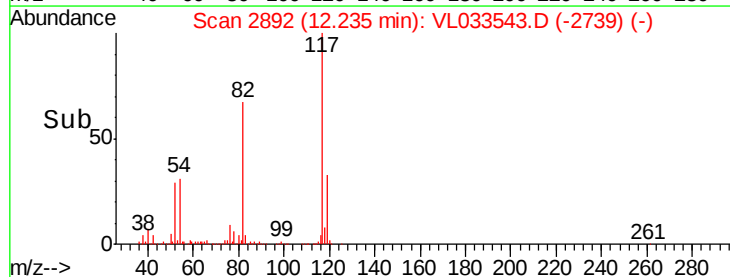
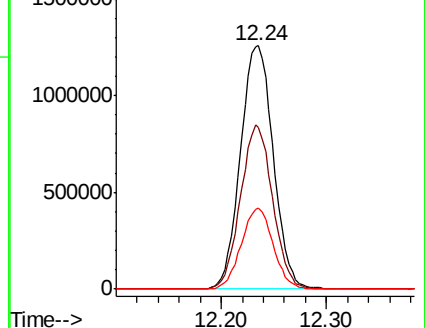
119 32.5 25.5 38.3

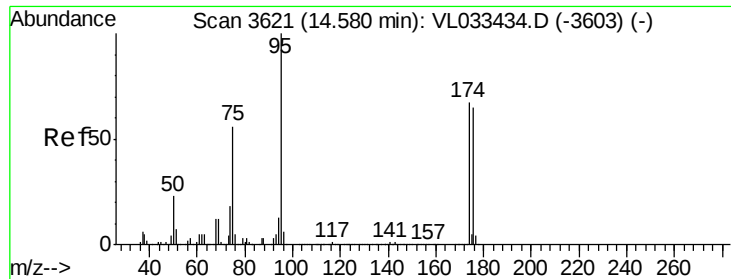


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.017 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033543.D

Acq: 4 Apr 2019 21:36

Instrument :

MSVOA_L

ClientSampleId :

A-4DL

Tot Ion: 95 Resp: 2141682

Ion Ratio Lower Upper

95 100

174 66.9 52.9 79.3

175 4.9 3.8 5.6

