

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033482.D
 Acq On : 28 Mar 2019 00:09
 Operator : SY/AP
 Sample : K2042-15DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:31:18 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	679368	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1561435	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1605882	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.57	95	1259023	10.00	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%	

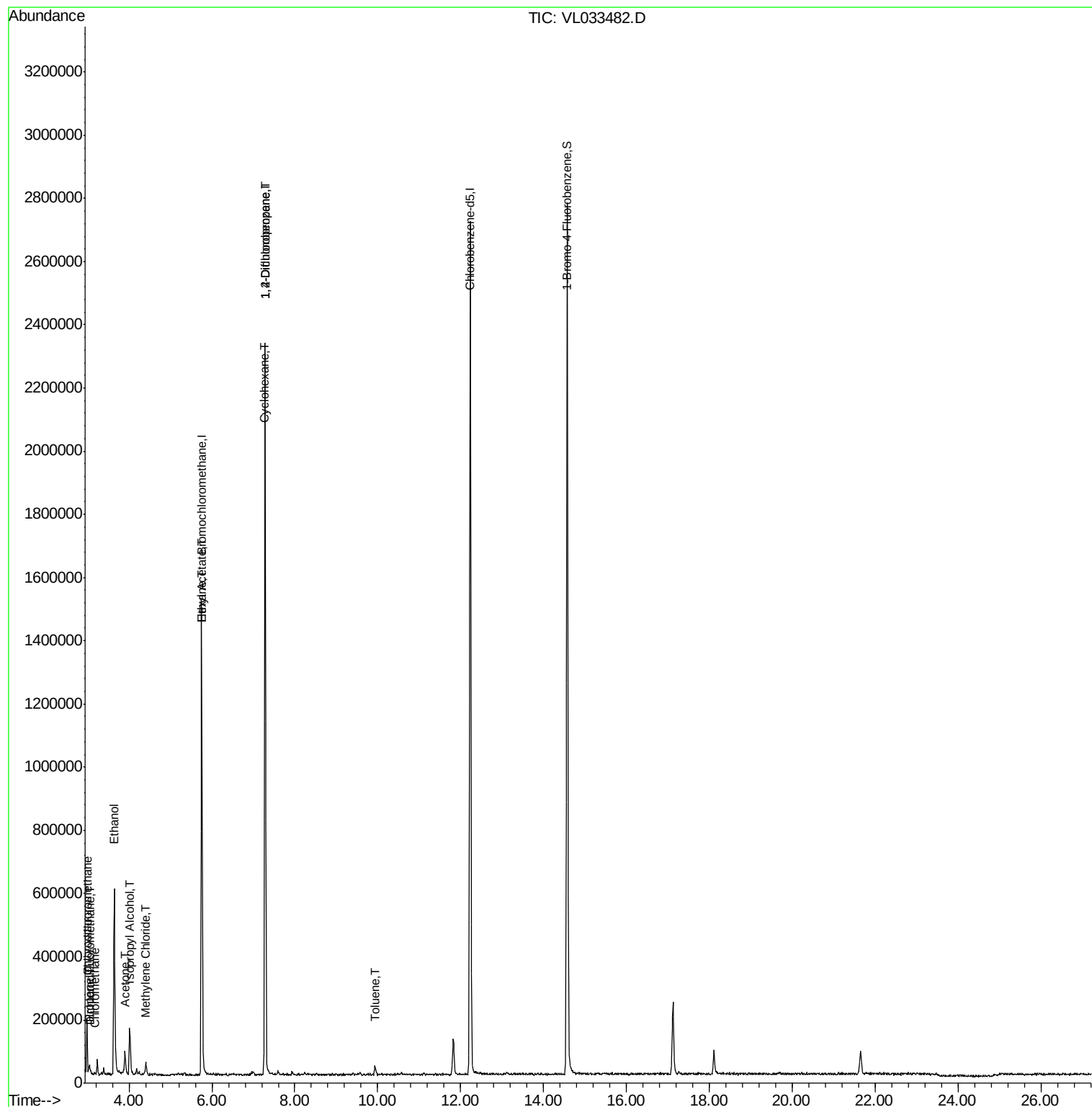
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6767	0.068	ppbv	97
3) Chlorodifluoromethane	2.99	51	96514	1.234	ppbv #	59
4) Chloromethane	3.16	50	962	0.023	ppbv #	88
9) Propene	3.02	41	868	0.026	ppbv #	1
13) Ethanol	3.64	45	641249	75.445	ppbv	65
15) Acetone	3.90	43	63820	0.781	ppbv	92
19) Isopropyl Alcohol	4.02	45	153092	2.963	ppbv #	97
20) Methylene Chloride	4.40	84	4244	0.122	ppbv #	85
25) Ethyl Acetate	5.77	43	10291	0.068	ppbv #	90
26) Hexane	5.77	57	9230	0.137	ppbv #	49
30) Cyclohexane	7.26	84	1992	0.037	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	419731	8.178	ppbv #	22
53) Toluene	9.93	91	6767	0.044	ppbv #	21

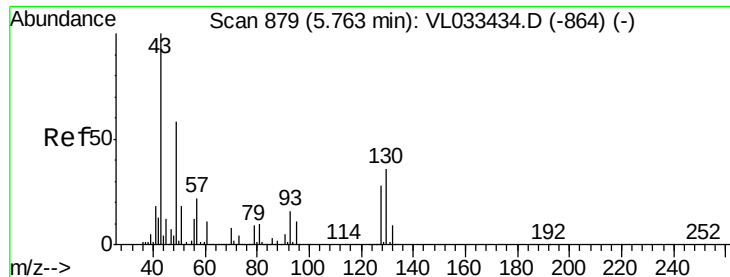
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 16:00:50 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

ClientSampleId :

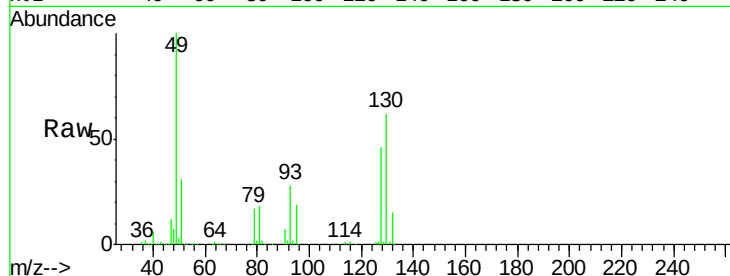
Tot Ion: 49 Resp: 679368

Ion Ratio Lower Upper

49 100

128 48.5 24.0 72.0

130 61.3 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

5.75

400000

300000

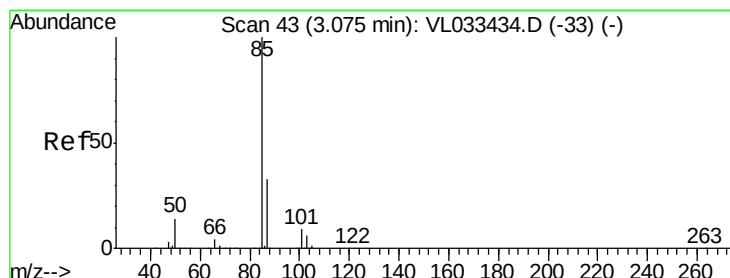
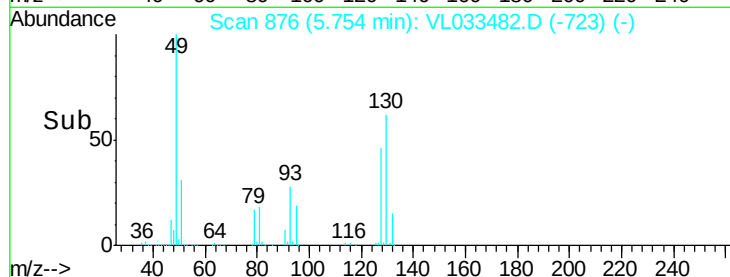
200000

100000

0

Time-->

5.70 5.75 5.80



#2

Dichlorodifluoromethane

Concen: 0.068 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.01 min

Lab File: VL033482.D

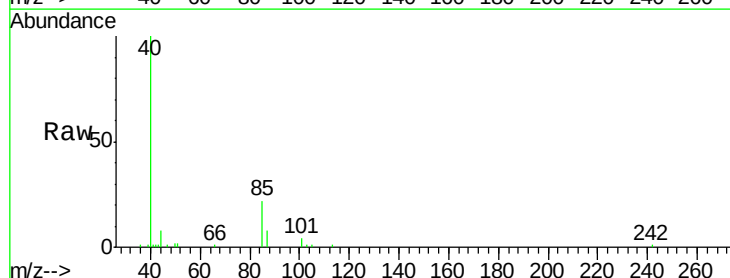
Acq: 28 Mar 2019 00:09

Tgt Ion: 85 Resp: 6767

Ion Ratio Lower Upper

85 100

87 35.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

6000

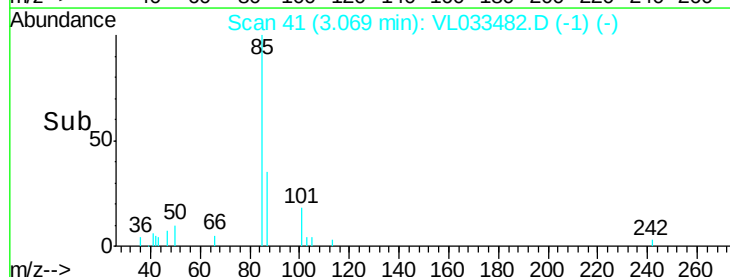
4000

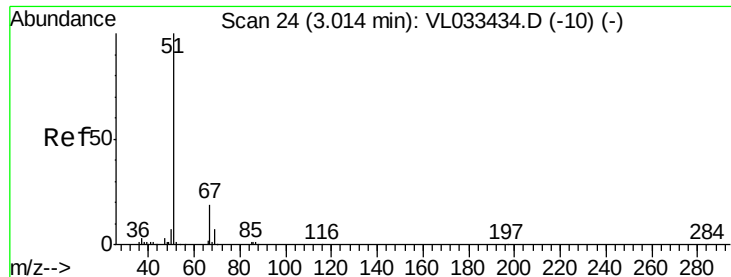
2000

0

Time-->

3.04 3.06 3.08 3.10

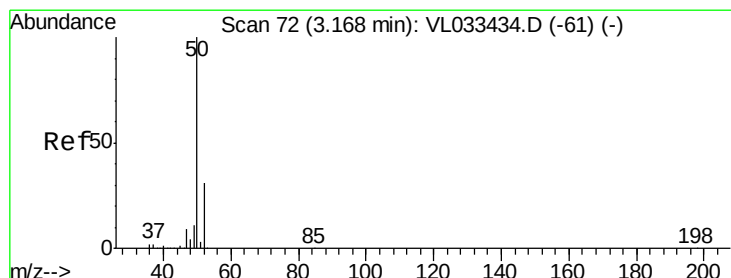
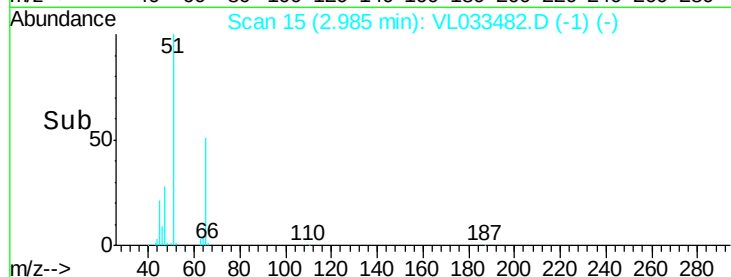
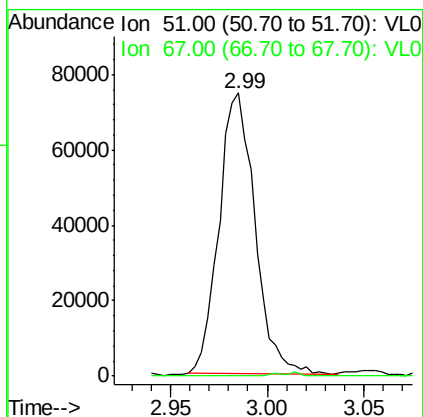
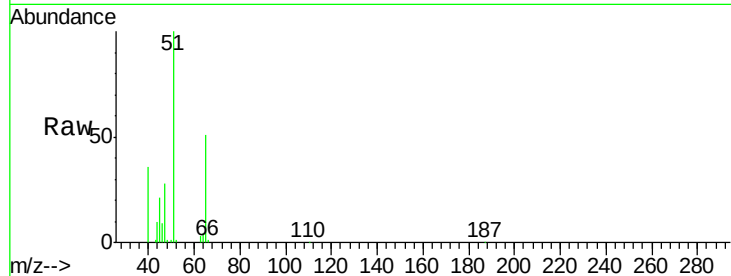




#3
 Chlorodifluoromethane
 Concen: 1.234 ppbv
 RT: 2.99 min Scan# 15
 Delta R.T. -0.03 min
 Lab File: VL033482.D
 Acq: 28 Mar 2019 00:09

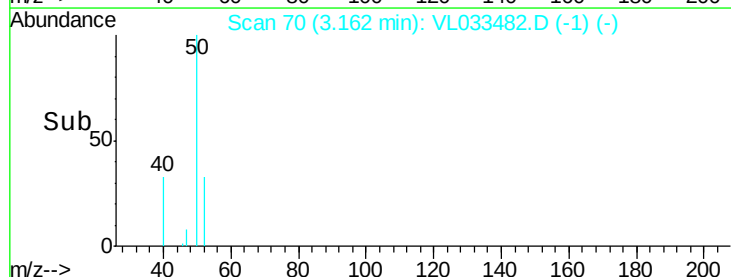
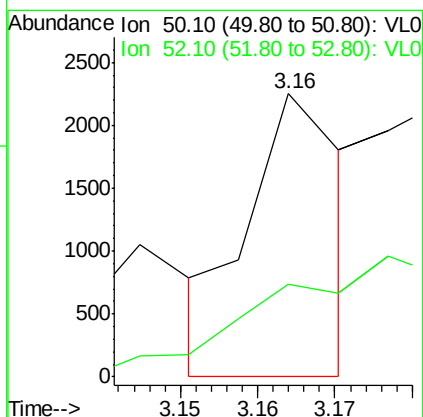
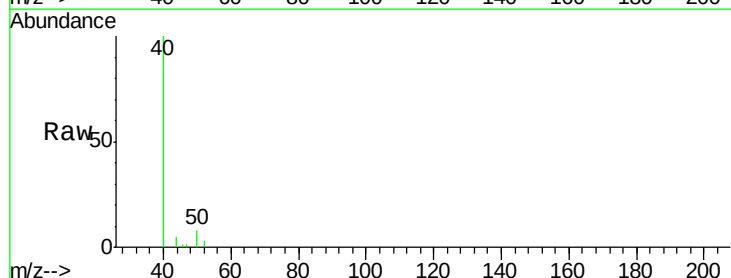
Instrument :
 MSVOA_L
 ClientSampleId :

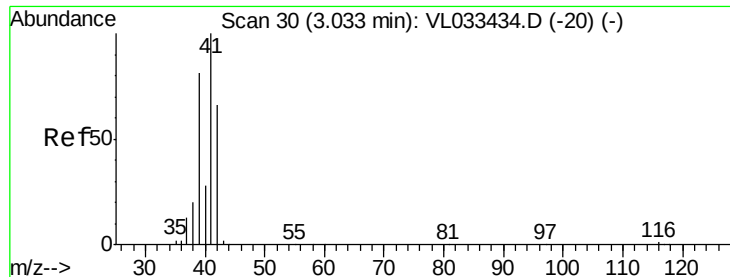
Tot Ion: 51 Resp: 96514
 Ion Ratio Lower Upper
 51 100
 67 0.9 15.7 23.5#



#4
 Chloromethane
 Concen: 0.023 ppbv
 RT: 3.16 min Scan# 70
 Delta R.T. -0.01 min
 Lab File: VL033482.D
 Acq: 28 Mar 2019 00:09

Tgt Ion: 50 Resp: 962
 Ion Ratio Lower Upper
 50 100
 52 38.1 25.0 37.6#





#9

Propene

Concen: 0.026 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.01 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

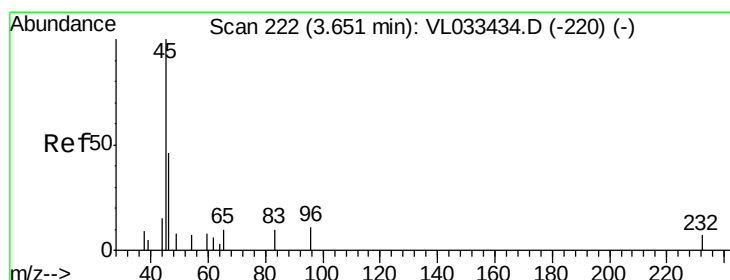
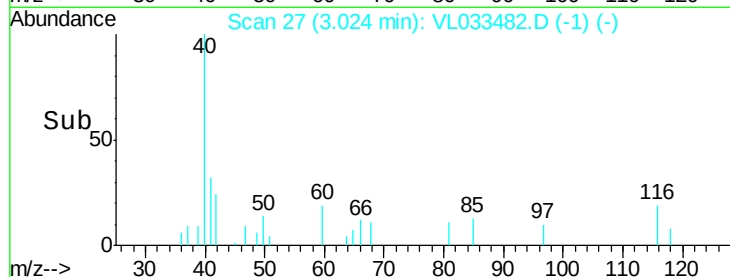
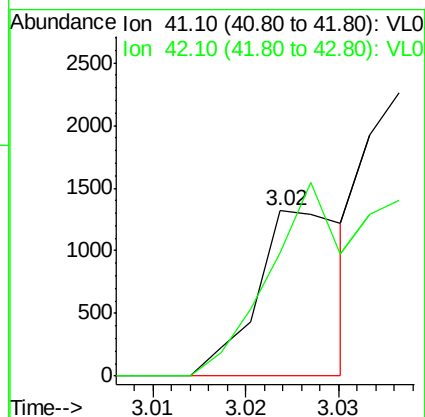
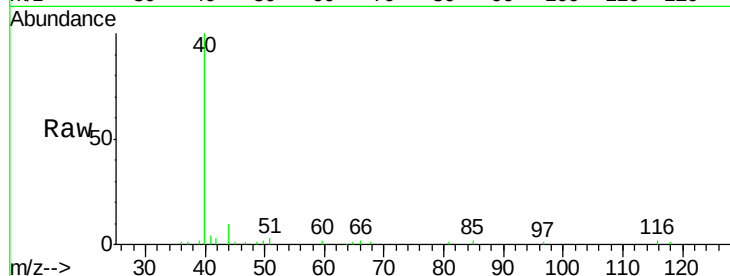
ClientSampleId :

Tot Ion: 41 Resp: 868

Ion Ratio Lower Upper

41 100

42 299.3 53.9 80.9#



#13

Ethanol

Concen: 75.445 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.01 min

Lab File: VL033482.D

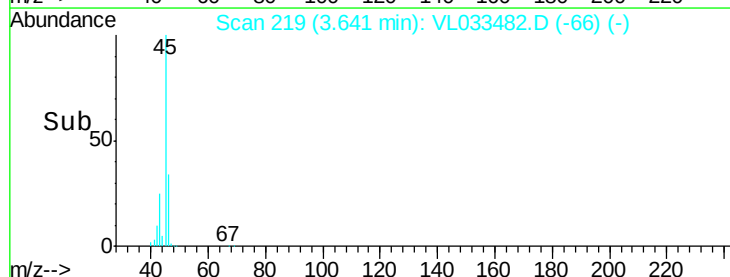
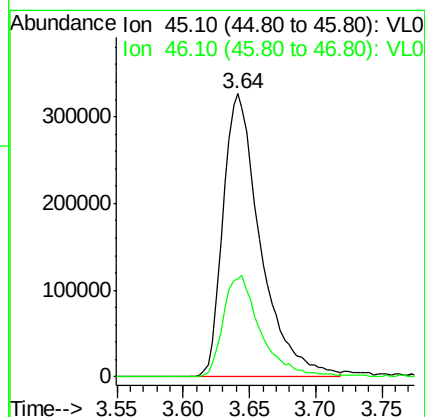
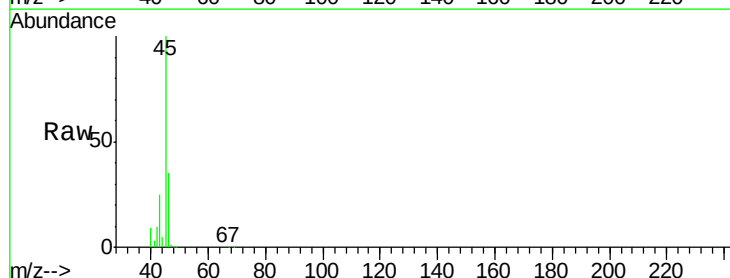
Acq: 28 Mar 2019 00:09

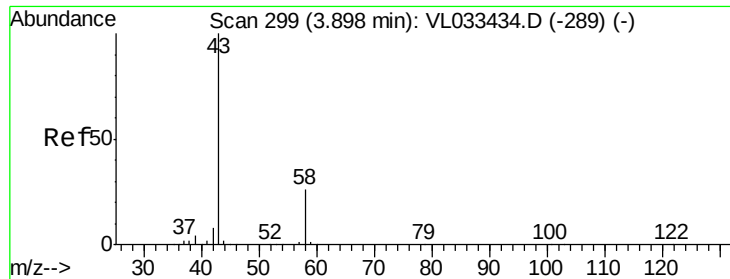
Tgt Ion: 45 Resp: 641249

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8





#15

Acetone

Concen: 0.781 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

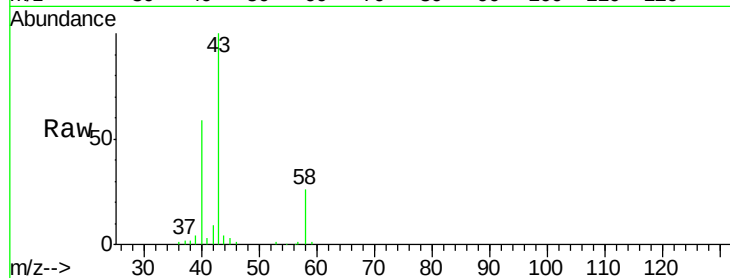
ClientSampled :

Tot Ion: 43 Resp: 63820

Ion Ratio Lower Upper

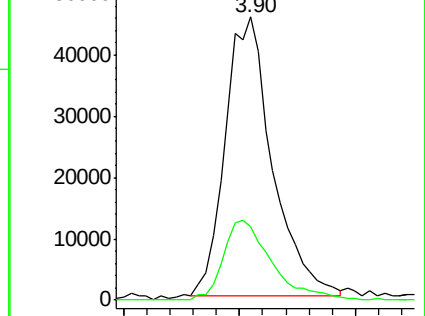
43 100

58 29.9 20.5 30.7

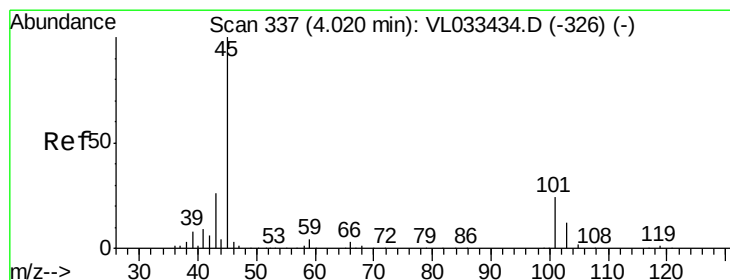
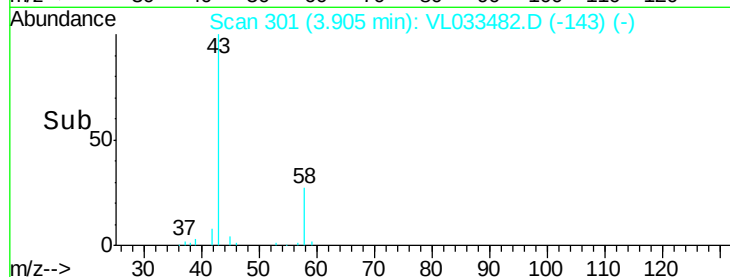


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time--> 3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 2.963 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033482.D

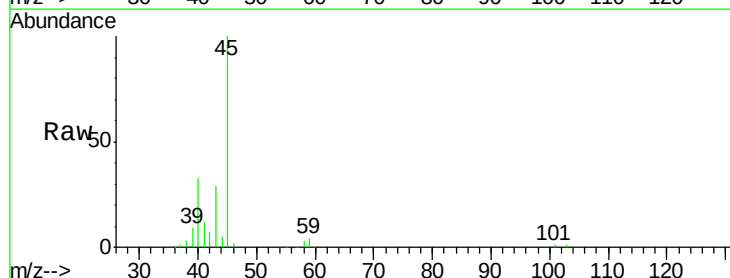
Acq: 28 Mar 2019 00:09

Tgt Ion: 45 Resp: 153092

Ion Ratio Lower Upper

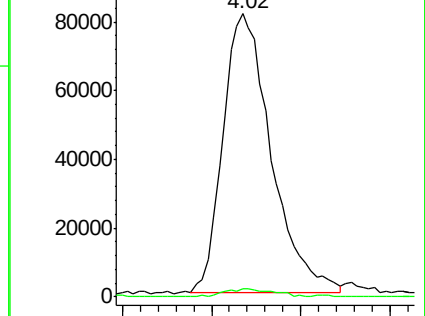
45 100

58 3.0 1.4 2.2#

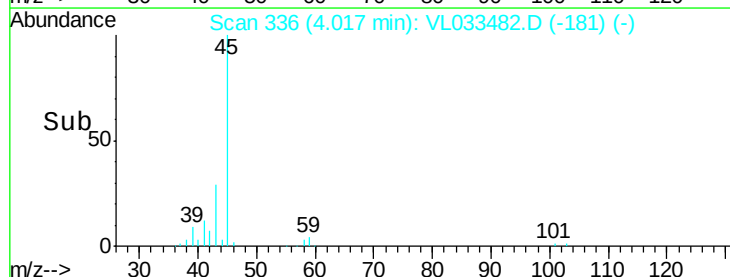


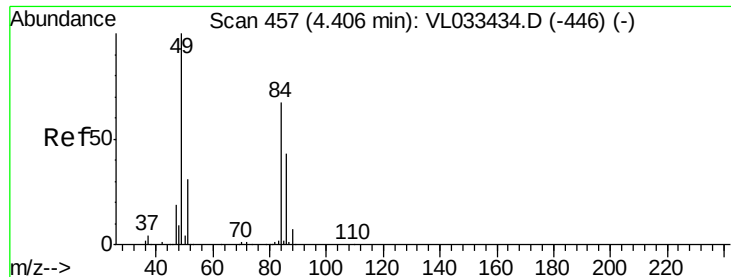
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time--> 3.95 4.00 4.05 4.10

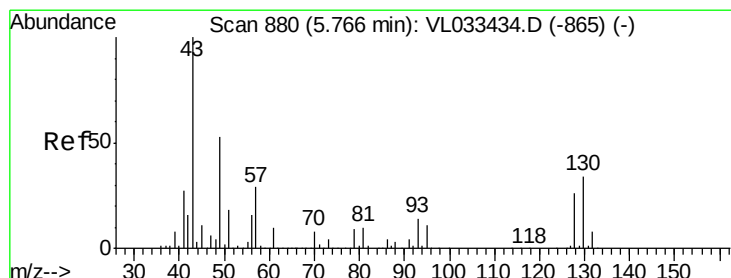
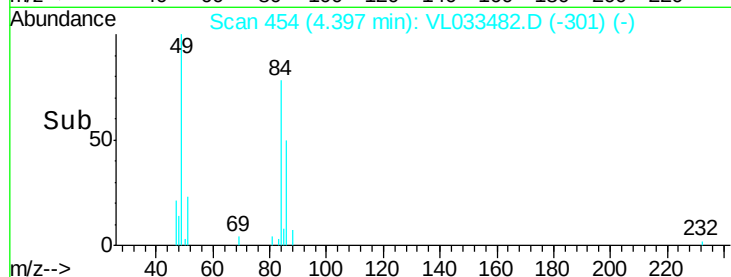
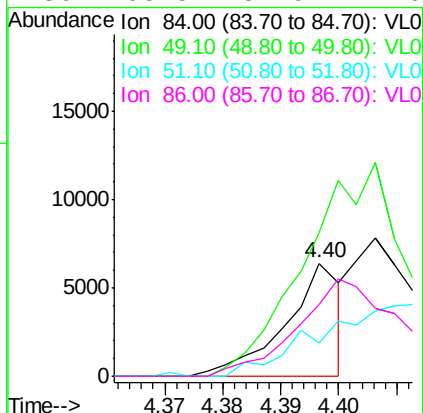
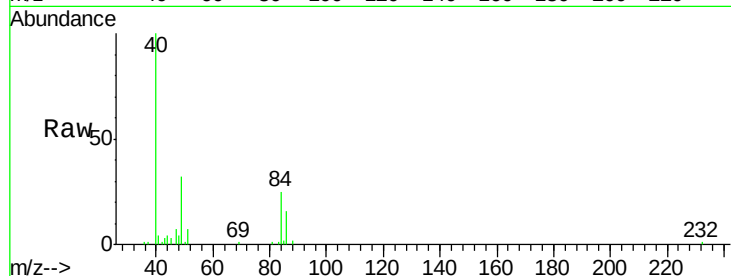




#20
Methvlene Chloride
Concen: 0.122 ppbv
RT: 4.40 min Scan# 454
Delta R.T. -0.01 min
Lab File: VL033482.D
Acq: 28 Mar 2019 00:09

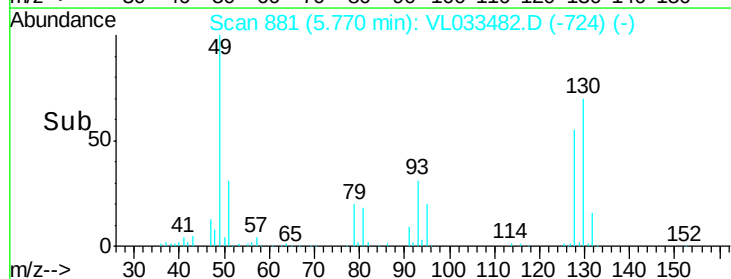
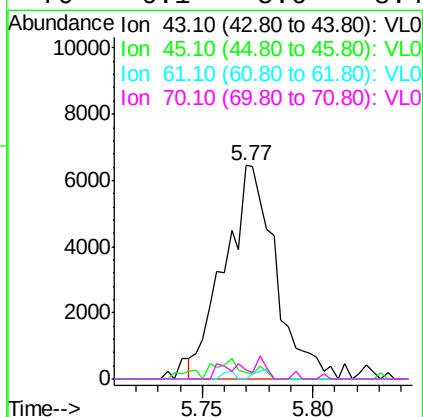
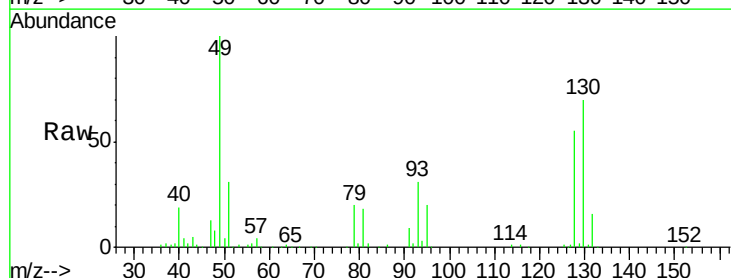
Instrument :
MSVOA_L
ClientSampleId :

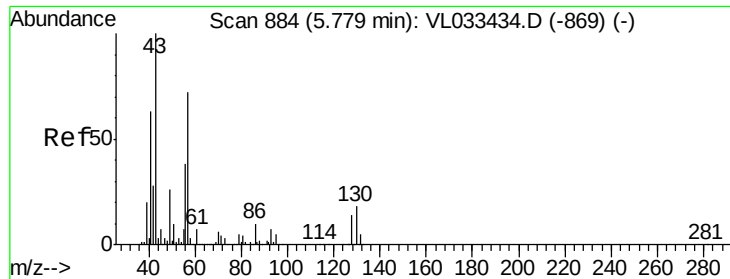
Tot Ion: 84 Resp: 4244
Ion Ratio Lower Upper
84 100
49 127.6 120.0 180.0
51 30.0 36.7 55.1#
86 63.5 51.9 77.9



#25
Ethyl Acetate
Concen: 0.068 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033482.D
Acq: 28 Mar 2019 00:09

Tgt Ion: 43 Resp: 10291
Ion Ratio Lower Upper
43 100
45 7.3 7.8 11.6#
61 2.0 7.3 10.9#
70 6.1 5.6 8.4

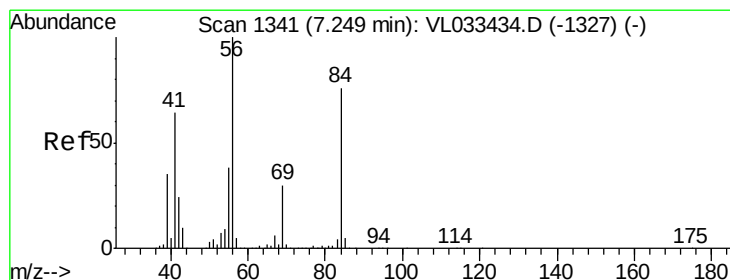
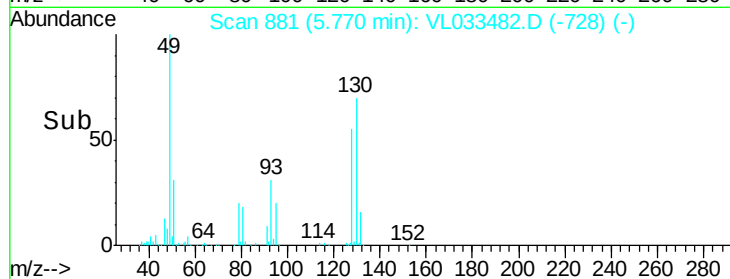
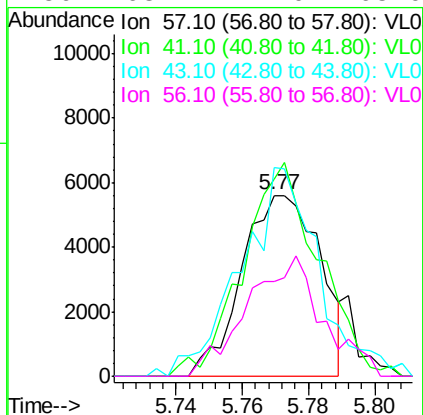
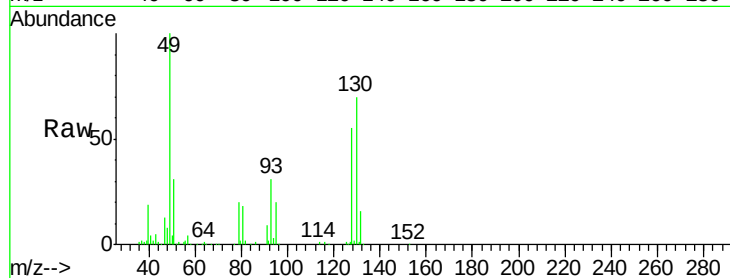




#26
Hexane
Concen: 0.137 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033482.D
Acq: 28 Mar 2019 00:09

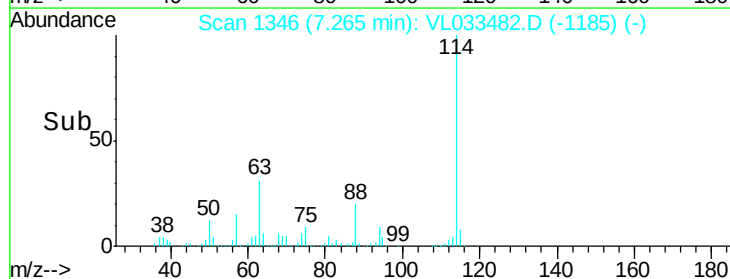
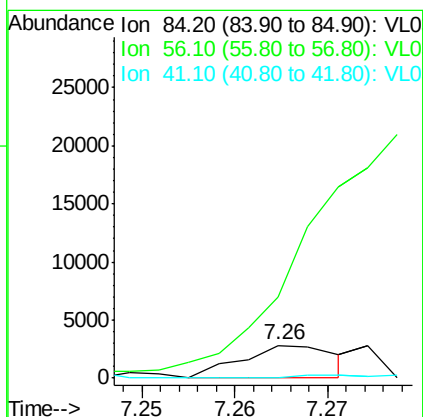
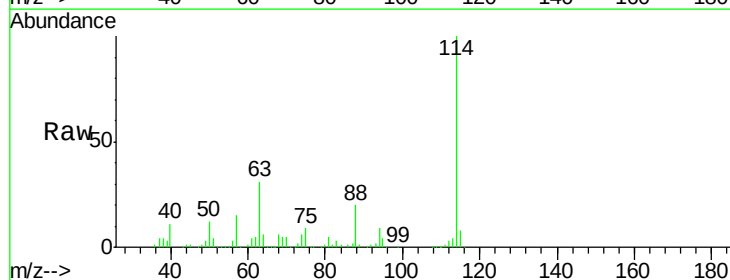
Instrument :
MSVOA_L
ClientSampleId :

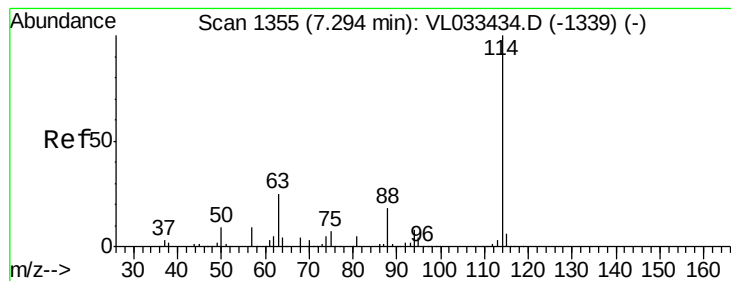
Tot Ion: 57 Resp: 9230
Ion Ratio Lower Upper
57 100
41 115.2 70.7 106.1#
43 117.6 182.6 274.0#
56 63.7 42.0 63.0#



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.02 min
Lab File: VL033482.D
Acq: 28 Mar 2019 00:09

Tgt Ion: 84 Resp: 1992
Ion Ratio Lower Upper
84 100
56 0.0 109.7 164.5#
41 0.0 68.2 102.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

ClientSampled :

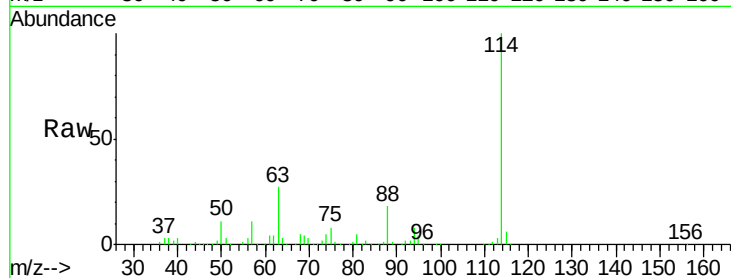
Tot Ion:114 Resp: 1561435

Ion Ratio Lower Upper

114 100

63 27.0 21.5 32.3

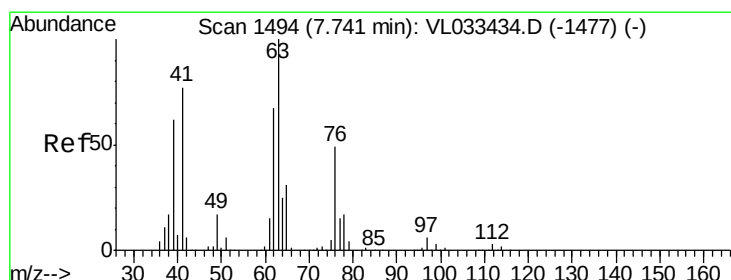
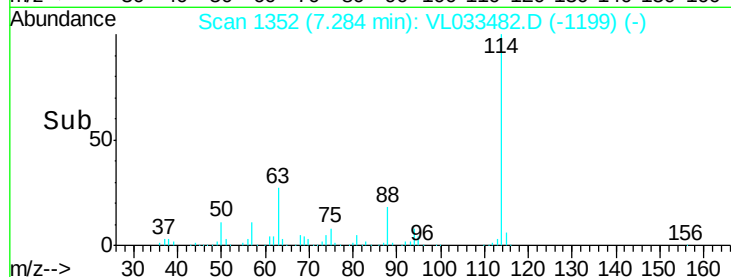
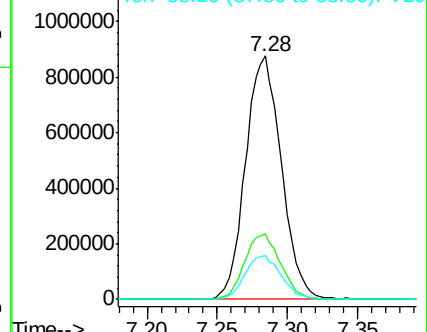
88 18.3 14.5 21.7



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: 8.178 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

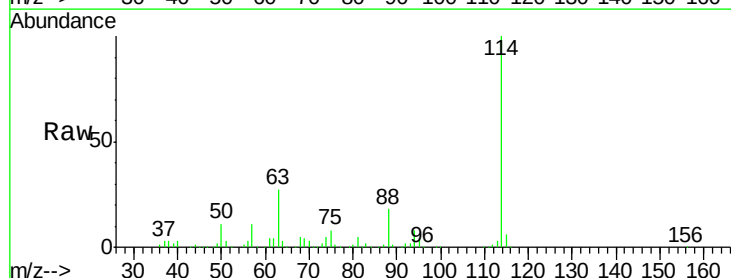
Tgt Ion: 63 Resp: 419731

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

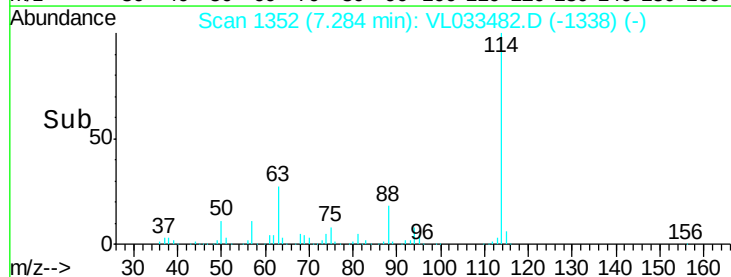
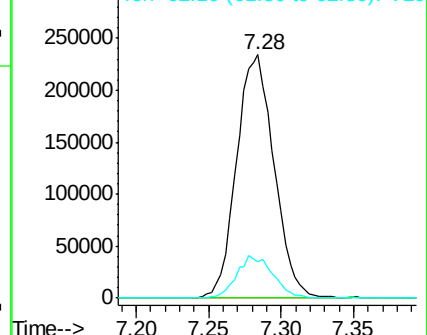
62 14.9 54.0 81.0#

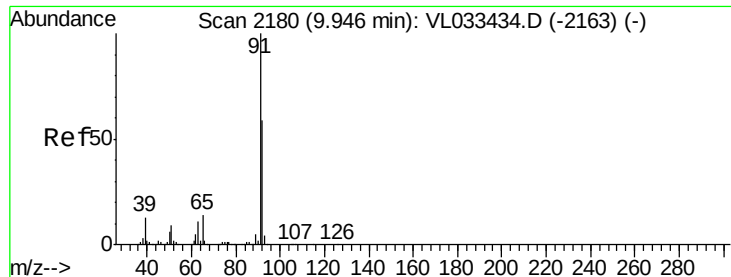


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.044 ppbv

RT: 9.93 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

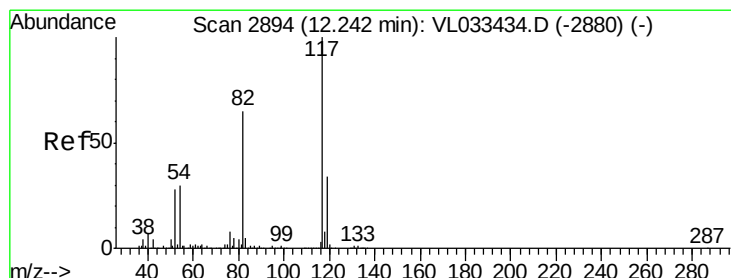
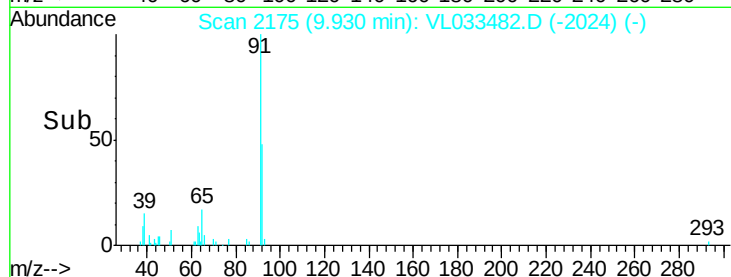
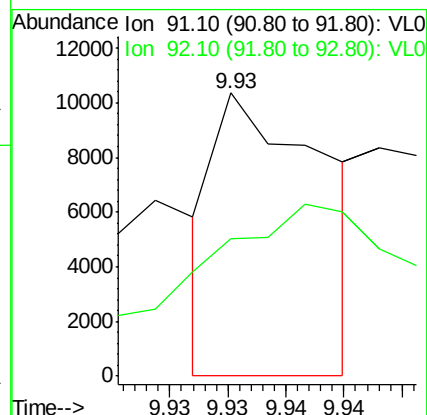
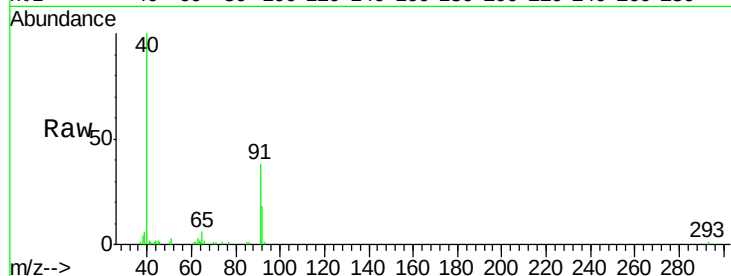
ClientSampleId :

Tot Ion: 91 Resp: 6767

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: VL033482.D

Acq: 28 Mar 2019 00:09

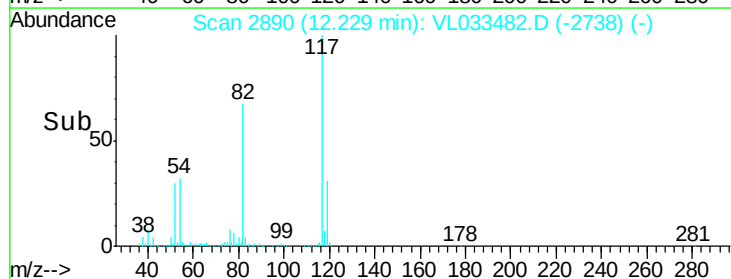
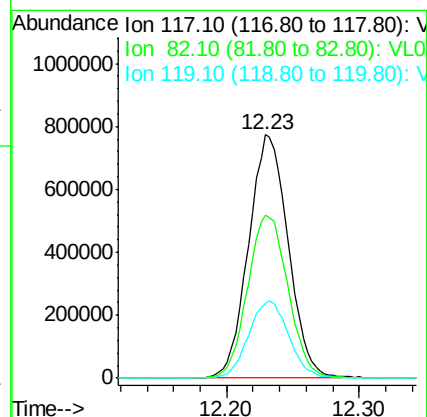
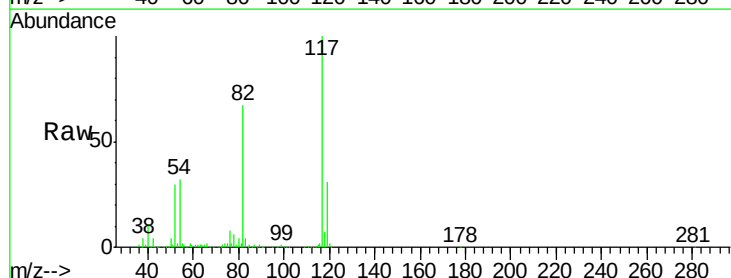
Tgt Ion: 117 Resp: 1605882

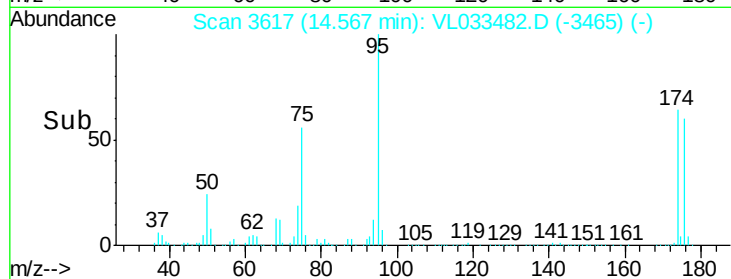
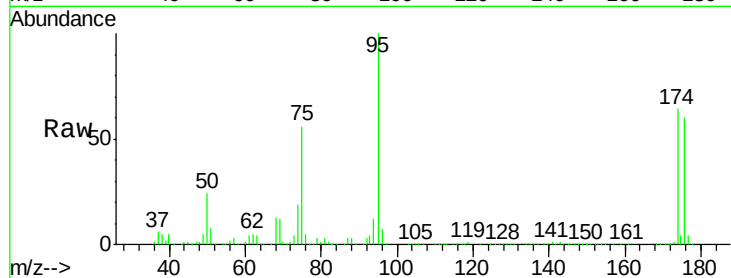
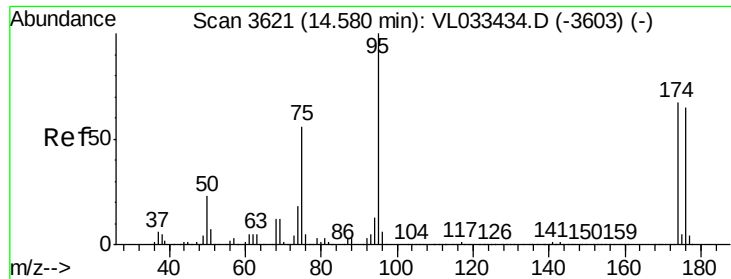
Ion Ratio Lower Upper

117 100

82 68.8 51.5 77.3

119 32.2 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.001 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033482.D

Acq: 28 Mar 2019 00:09

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1259023

Ion Ratio Lower Upper

95 100

174 65.9 52.9 79.3

175 4.7 3.8 5.6

