

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033403.D
 Acq On : 20 Mar 2019 23:42
 Operator : SY/AP
 Sample : K1976-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Mar 21 12:40:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	838379	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2064158	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2032382	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1478220	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

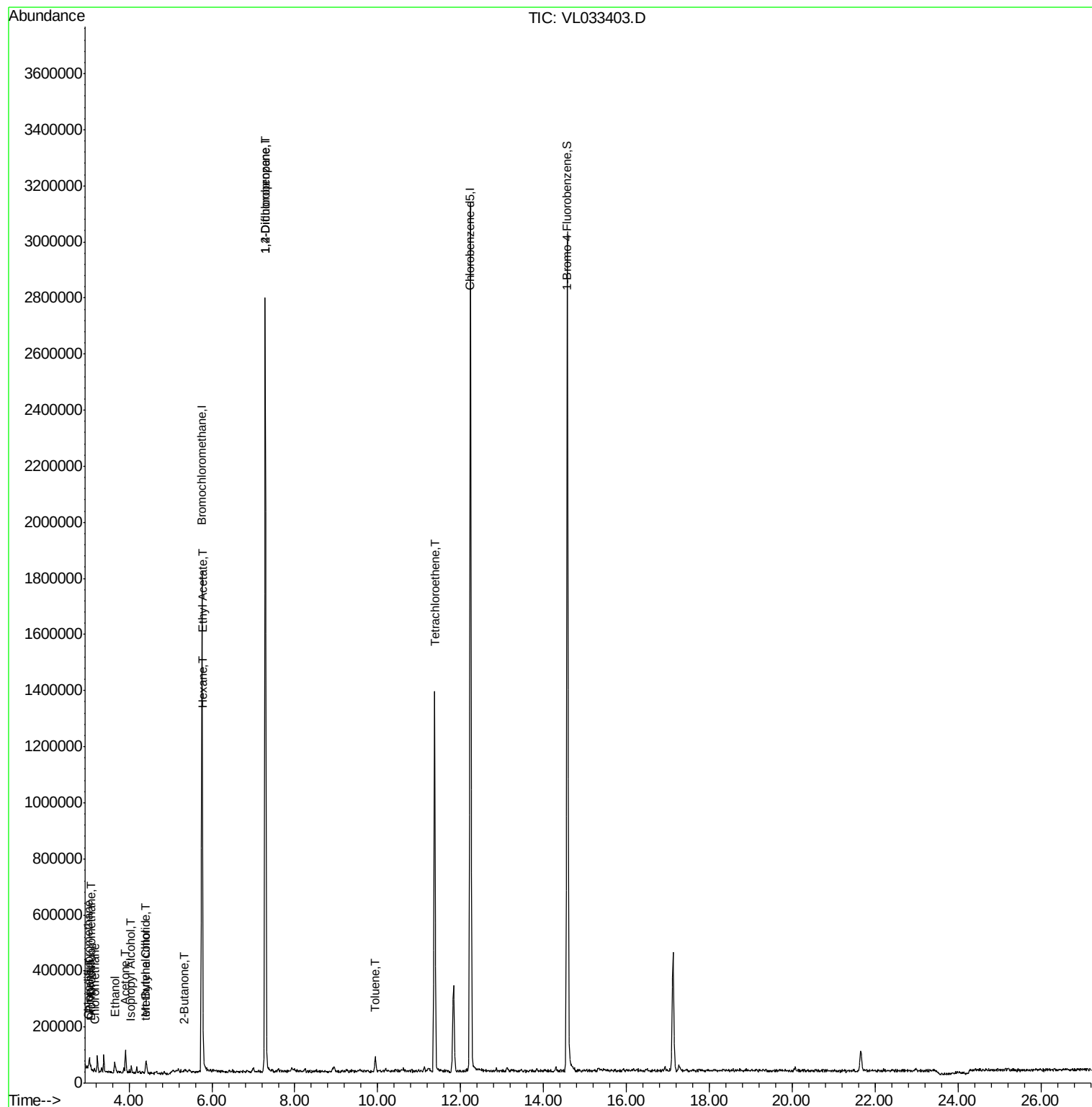
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	9613	0.065	ppbv	98
3) Chlorodifluoromethane	3.02	51	20278	0.211	ppbv #	89
4) Chloromethane	3.17	50	3428	0.066	ppbv	99
9) Propene	3.05	41	8716	0.203	ppbv	85
13) Ethanol	3.66	45	36340	1.775	ppbv	98
15) Acetone	3.91	43	80829	0.620	ppbv	99
17) tert-Butyl alcohol	4.39	59	730	0.040	ppbv #	74
19) Isopropyl Alcohol	4.05	45	9102	0.147	ppbv #	95
20) Methylene Chloride	4.41	84	13332	0.314	ppbv	94
25) Ethyl Acetate	5.78	43	7002	0.037	ppbv #	70
26) Hexane	5.78	57	11226	0.133	ppbv #	62
34) 2-Butanone	5.35	43	8007	0.059	ppbv	97
39) 1,2-Dichloropropane	7.29	63	515645	7.454	ppbv #	24
52) Tetrachloroethene	11.37	164	348518	4.529	ppbv	97
53) Toluene	9.94	91	28263	0.135	ppbv #	64

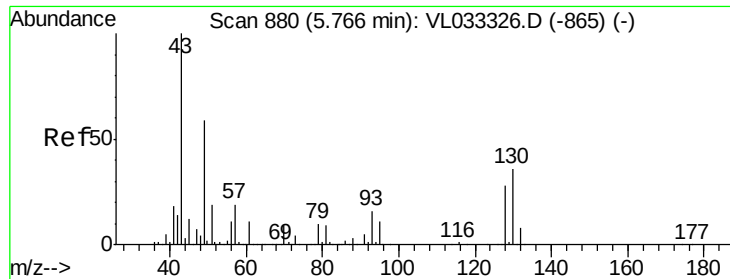
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
IA1DL

Quant Time: Mar 21 12:40:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

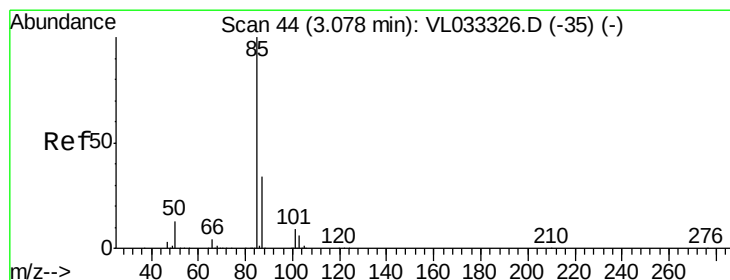
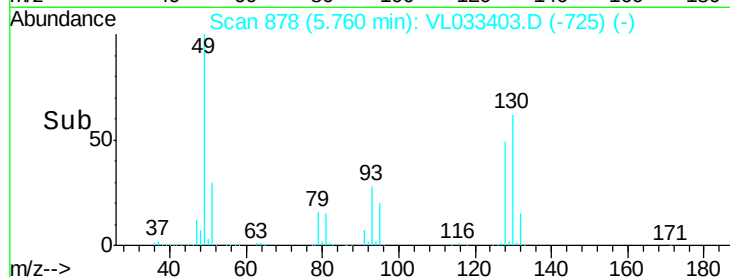
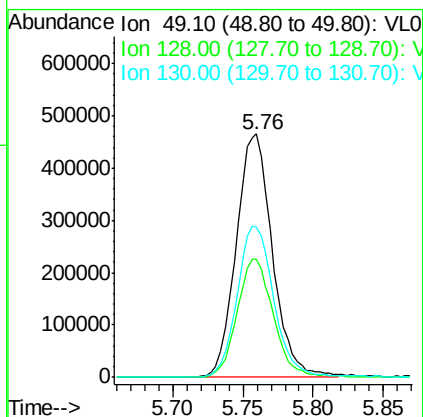
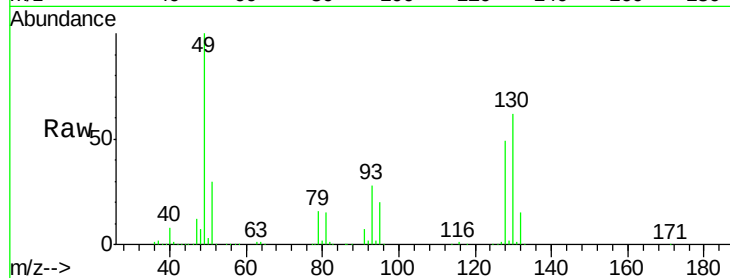




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. -0.01 min
 Lab File: VL033403.D
 Acq: 20 Mar 2019 23:42

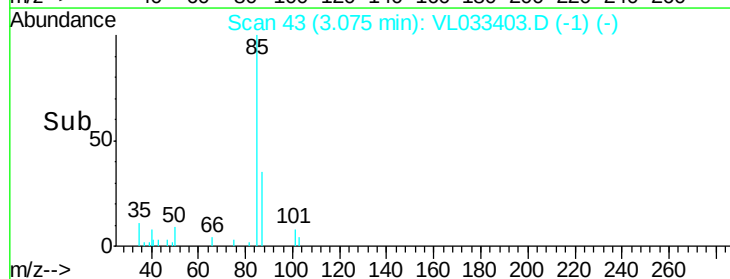
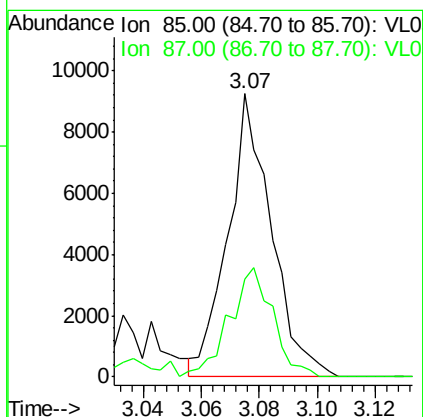
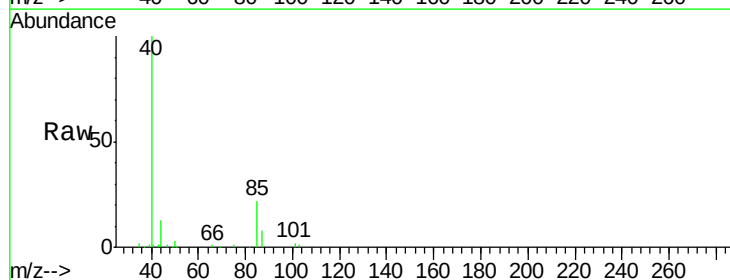
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

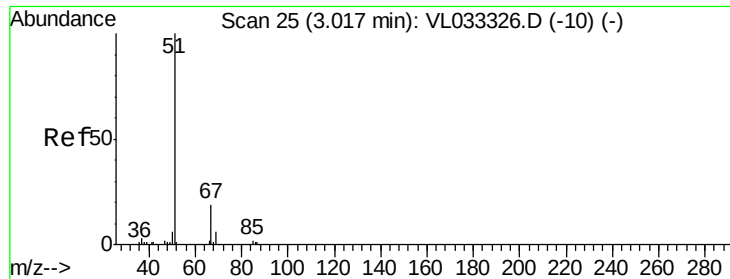
Tgt Ion: 49 Resp: 838379
 Ion Ratio Lower Upper
 49 100
 128 48.9 23.5 70.6
 130 63.7 30.1 90.3



#2
 Dichlorodifluoromethane
 Concen: 0.065 ppbv
 RT: 3.07 min Scan# 43
 Delta R.T. -0.00 min
 Lab File: VL033403.D
 Acq: 20 Mar 2019 23:42

Tgt Ion: 85 Resp: 9613
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.9 40.3

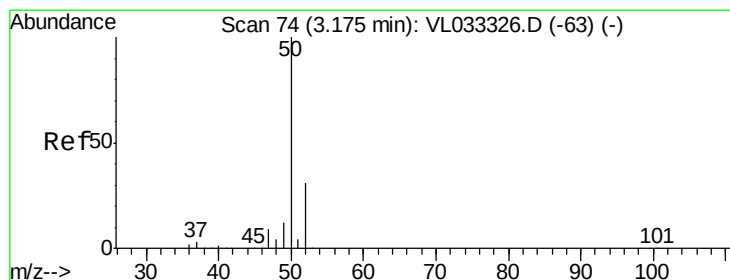
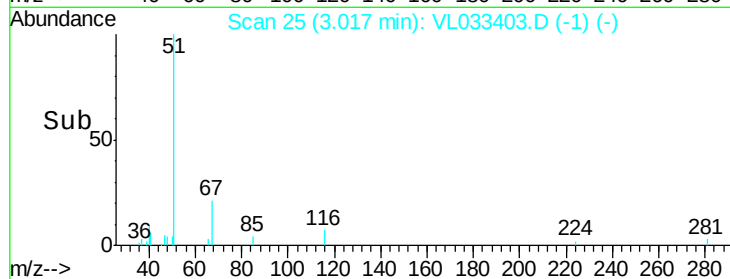
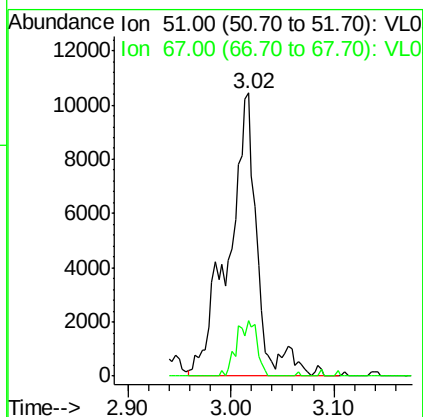
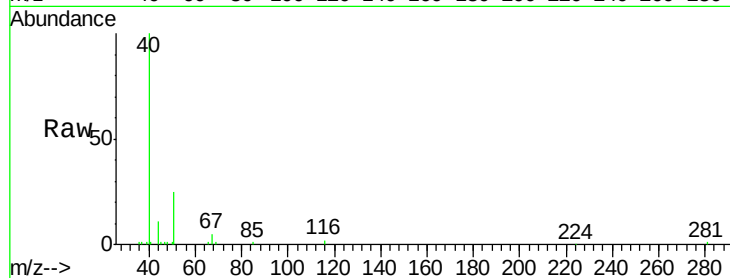




#3
Chlorodifluoromethane
Concen: 0.211 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

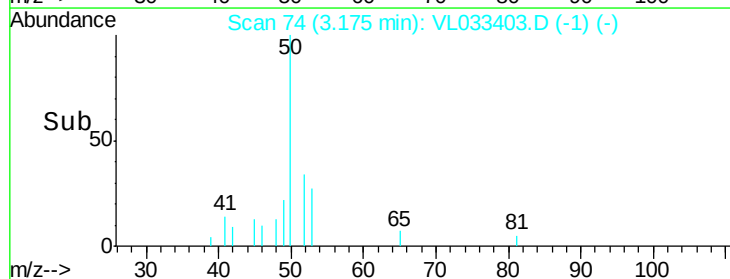
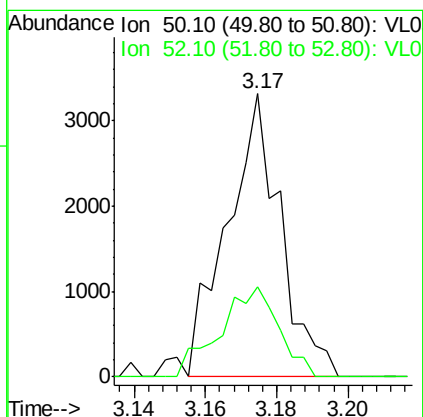
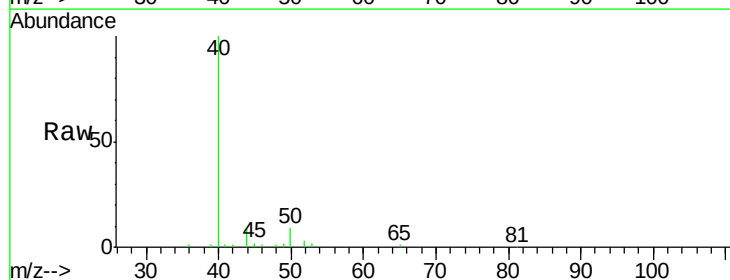
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

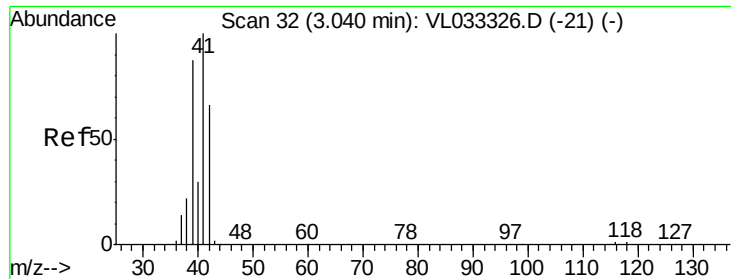
Tgt Ion: 51 Resp: 20278
Ion Ratio Lower Upper
51 100
67 13.7 14.9 22.3#



#4
Chloromethane
Concen: 0.066 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

Tgt Ion: 50 Resp: 3428
Ion Ratio Lower Upper
50 100
52 31.9 25.0 37.6





#9

Propene

Concen: 0.203 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

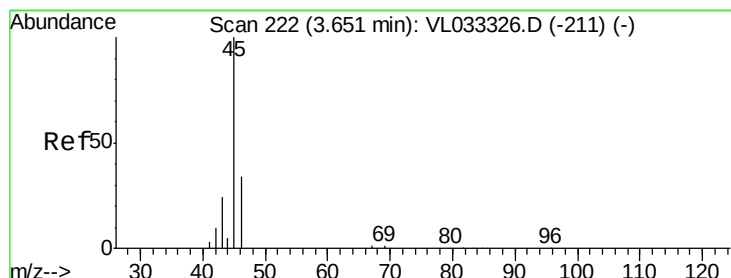
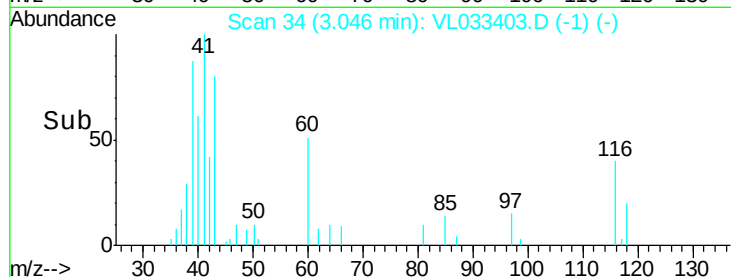
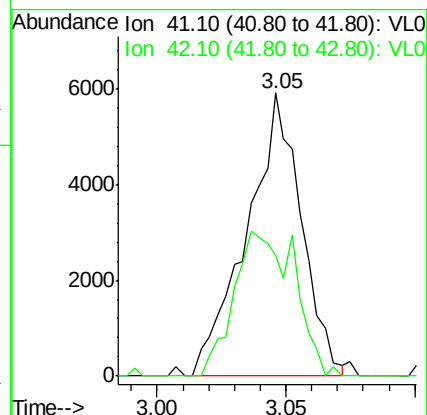
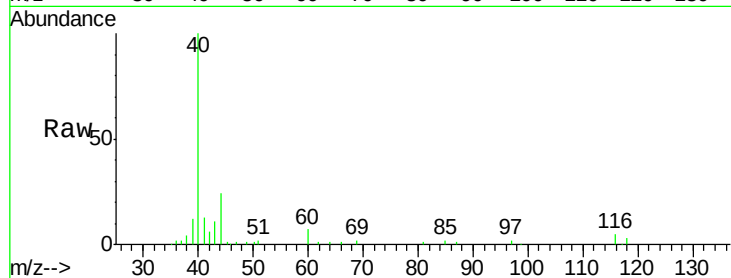
IA1DL

Tgt Ion: 41 Resp: 8716

Ion Ratio Lower Upper

41 100

42 56.9 55.2 82.8



#13

Ethanol

Concen: 1.775 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033403.D

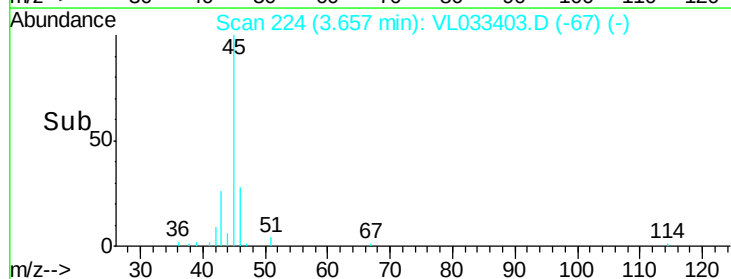
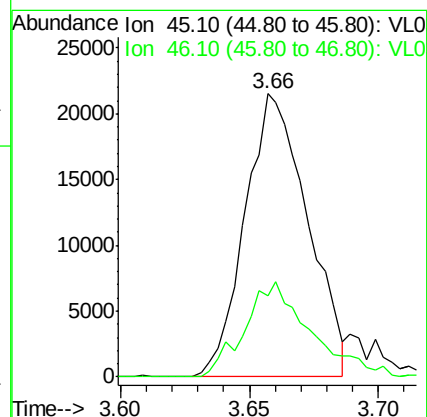
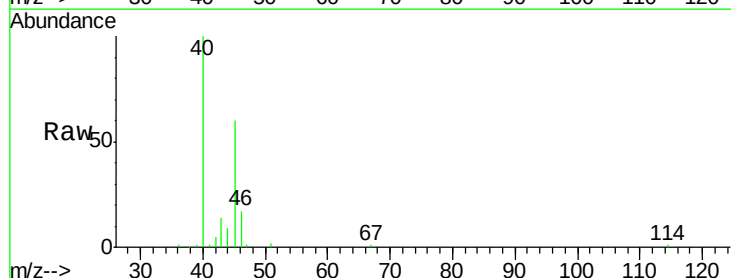
Acq: 20 Mar 2019 23:42

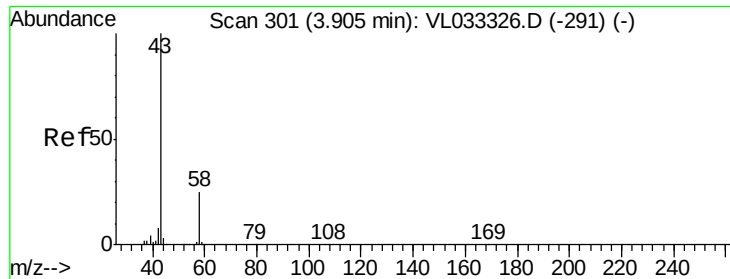
Tgt Ion: 45 Resp: 36340

Ion Ratio Lower Upper

45 100

46 36.0 14.9 59.7





#15

Acetone

Concen: 0.620 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

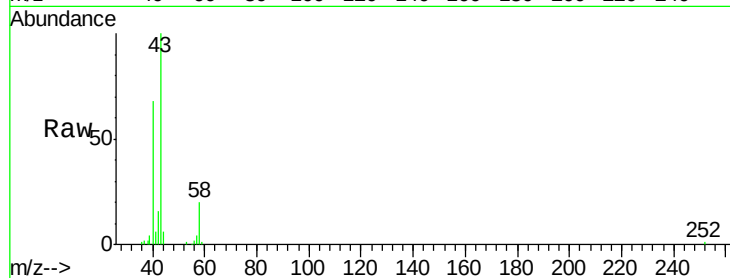
IA1DL

Tgt Ion: 43 Resp: 80829

Ion Ratio Lower Upper

43 100

58 26.2 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

60000

50000

40000

30000

20000

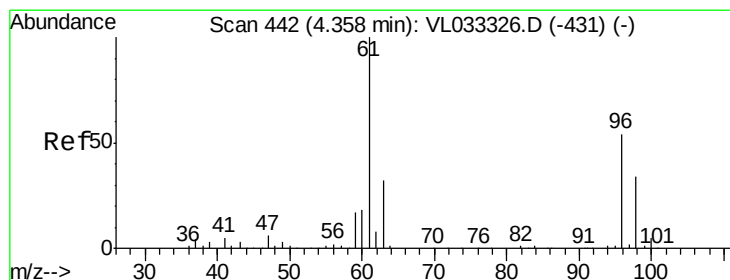
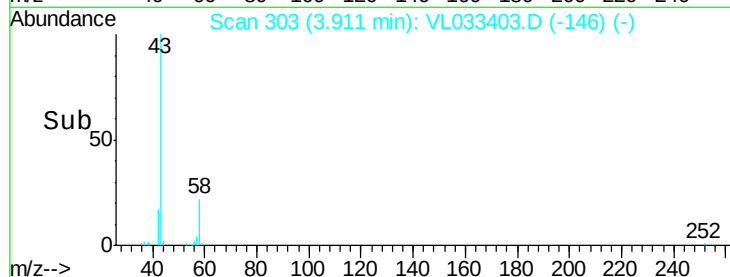
10000

0

3.91

3.85 3.90 3.95

Time-->



#17

tert-Butyl alcohol

Concen: 0.040 ppbv

RT: 4.39 min Scan# 452

Delta R.T. 0.03 min

Lab File: VL033403.D

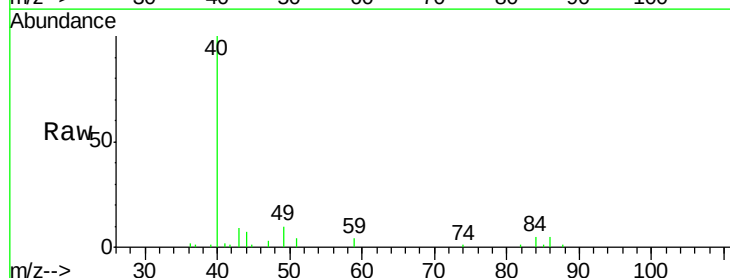
Acq: 20 Mar 2019 23:42

Tgt Ion: 59 Resp: 730

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

1500

1000

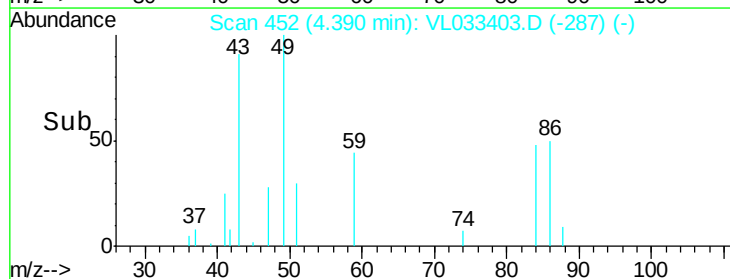
500

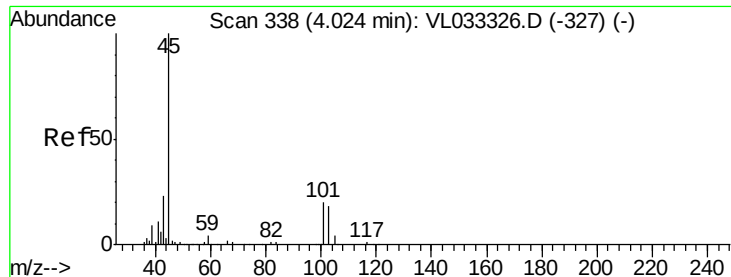
0

4.39

4.37 4.38 4.39

Time-->

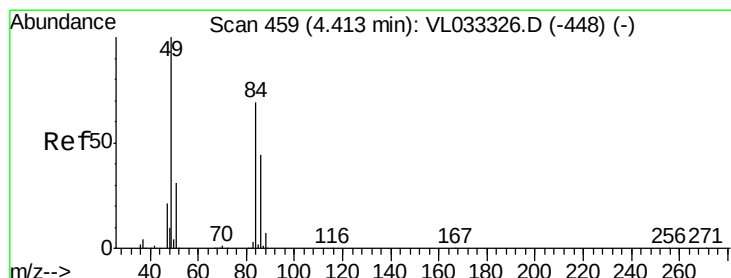
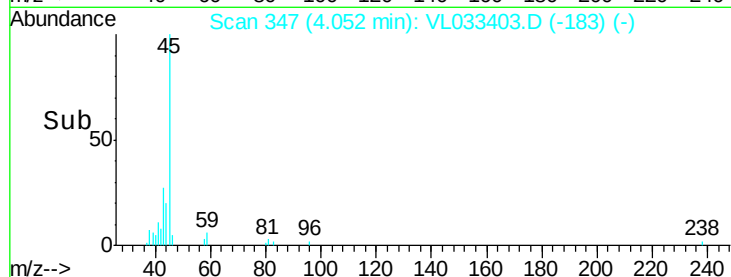
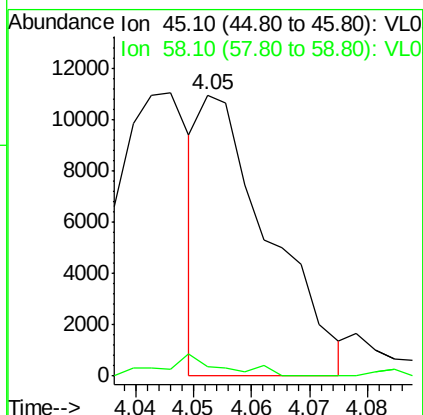
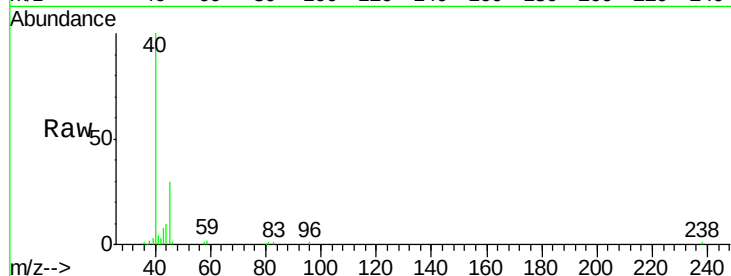




#19
Isopropyl Alcohol
Concen: 0.147 ppbv
RT: 4.05 min Scan# 347
Delta R.T. 0.03 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

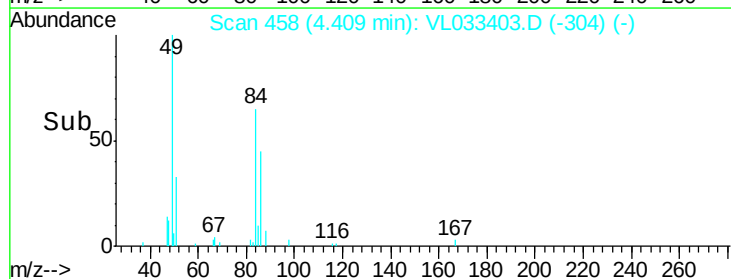
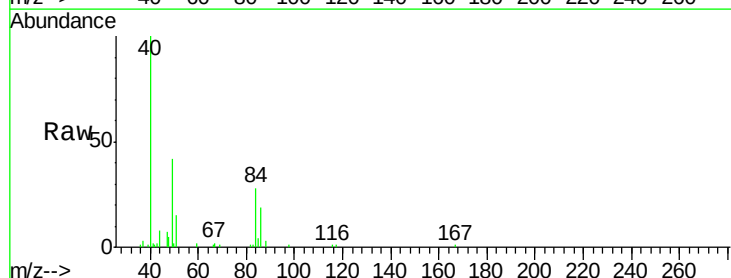
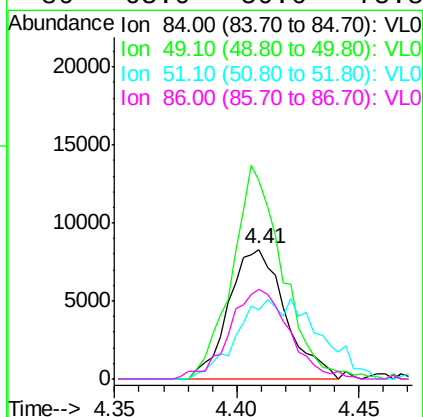
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

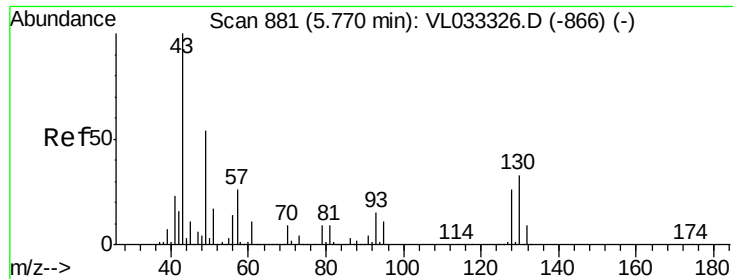
Tgt Ion: 45 Resp: 9102
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

Tgt Ion: 84 Resp: 13332
Ion Ratio Lower Upper
84 100
49 152.8 115.4 173.0
51 53.4 35.8 53.6
86 63.0 50.6 75.8





#25

Ethyl Acetate

Concen: 0.037 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 43 Resp: 7002

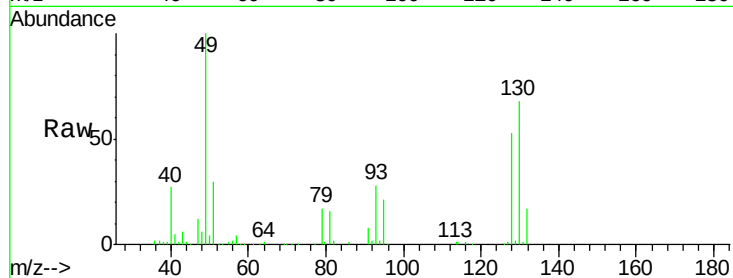
Ion Ratio Lower Upper

43 100

45 25.0 7.9 11.9#

61 0.0 7.4 11.2#

70 0.0 5.7 8.5#

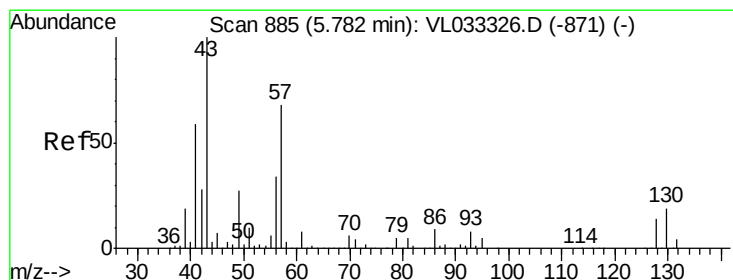
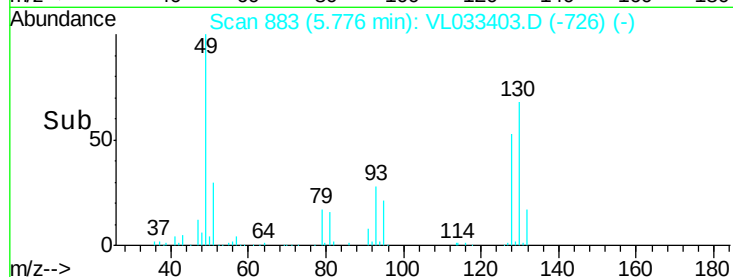
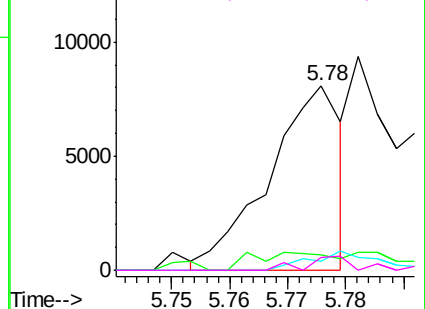


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.133 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Tgt Ion: 57 Resp: 11226

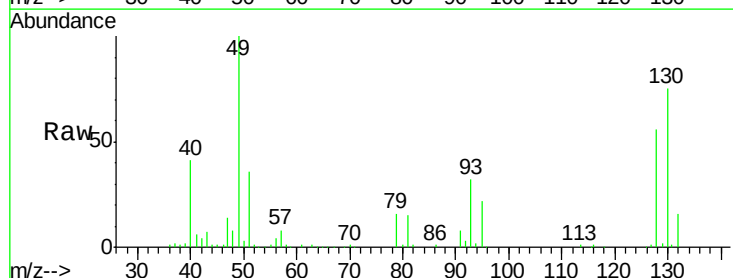
Ion Ratio Lower Upper

57 100

41 96.7 70.5 105.7

43 134.4 181.8 272.8#

56 57.3 42.2 63.2

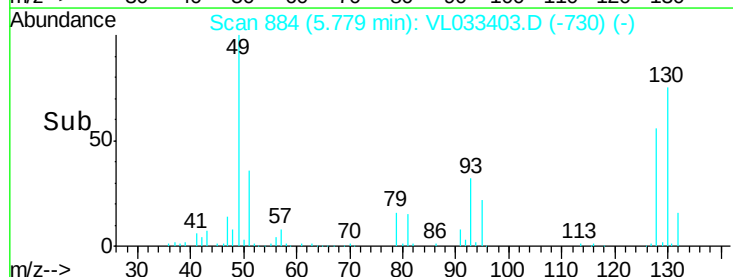
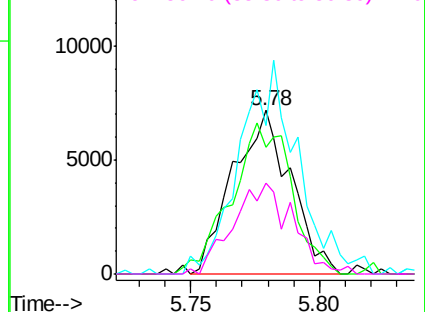


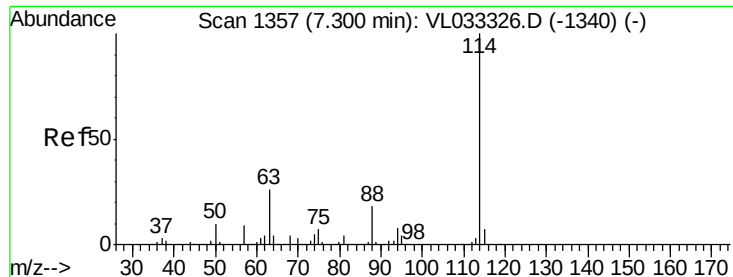
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

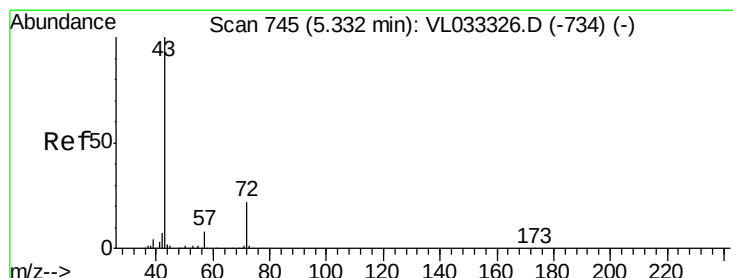
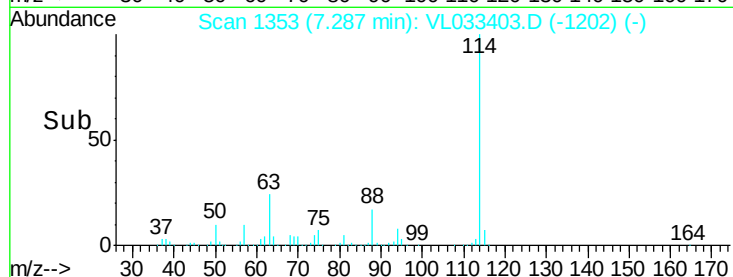
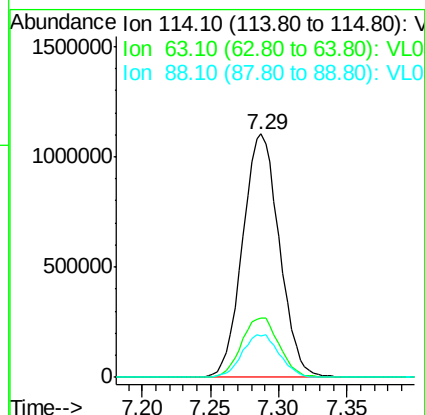
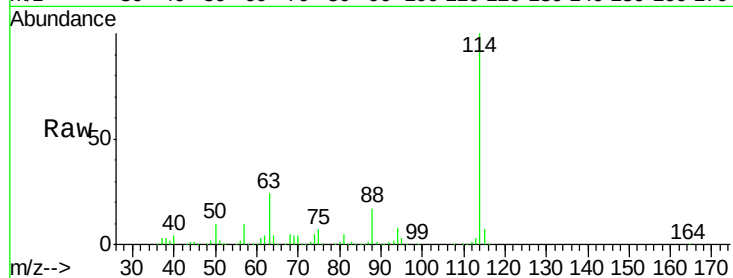




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033403.D
 Acq: 20 Mar 2019 23:42

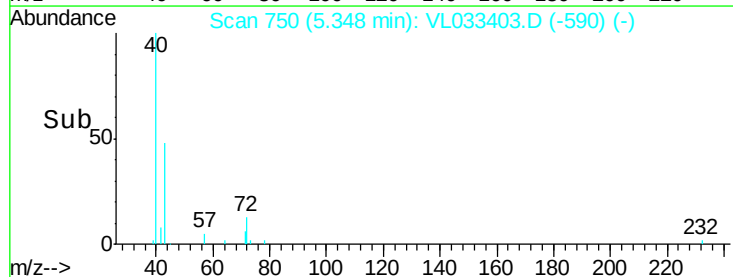
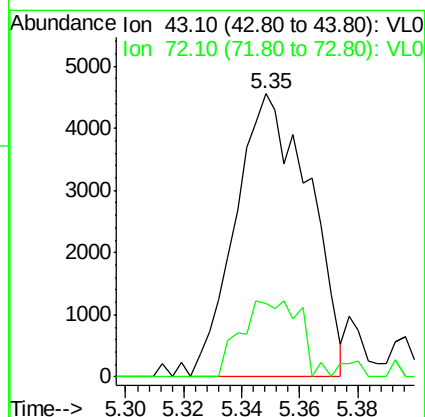
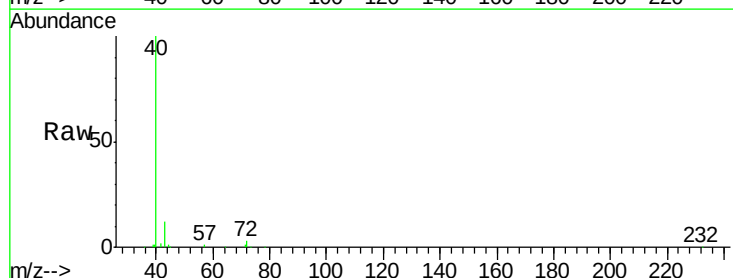
Instrument :
 MSVOA_L
 ClientSampled :
 IA1DL

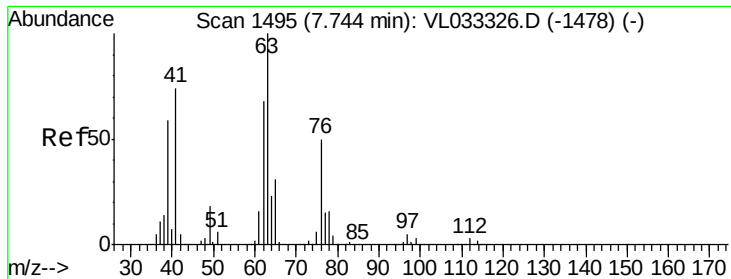
Tgt Ion:114 Resp: 2064158
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.4 32.2
 88 17.8 14.5 21.7



#34
 2-Butanone
 Concen: 0.059 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.02 min
 Lab File: VL033403.D
 Acq: 20 Mar 2019 23:42

Tgt Ion: 43 Resp: 8007
 Ion Ratio Lower Upper
 43 100
 72 23.3 17.7 26.5





#39

1,2-Dichloropropane

Concen: 7.454 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

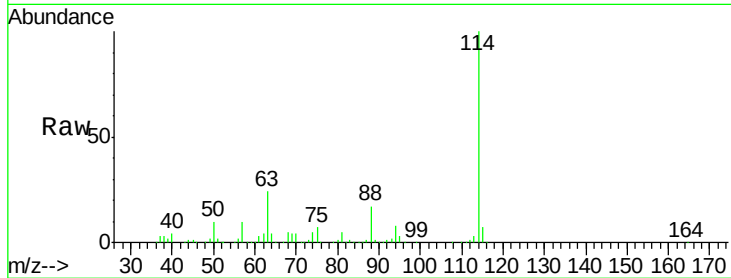
Tgt Ion: 63 Resp: 515645

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

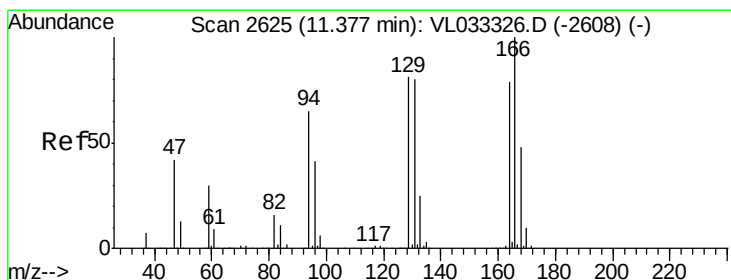
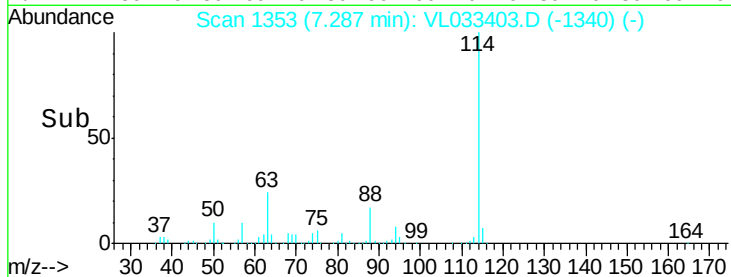
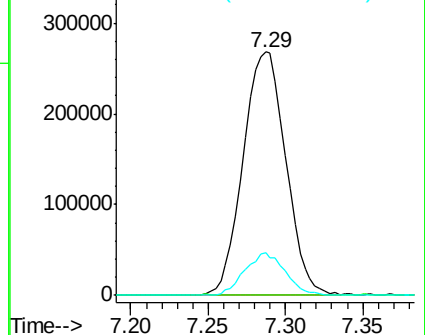
62 17.4 54.7 82.1#



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



#52

Tetrachloroethene

Concen: 4.529 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Tgt Ion:164 Resp: 348518

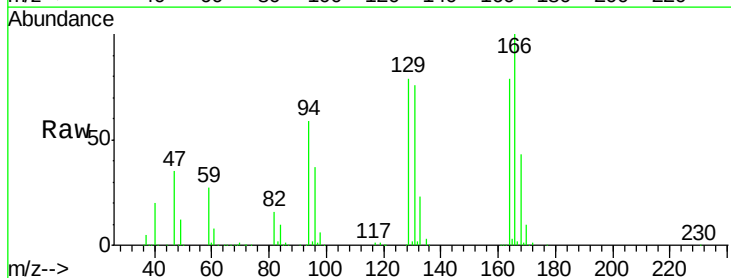
Ion Ratio Lower Upper

164 100

166 126.5 101.5 152.3

129 99.5 82.2 123.2

131 96.1 81.1 121.7

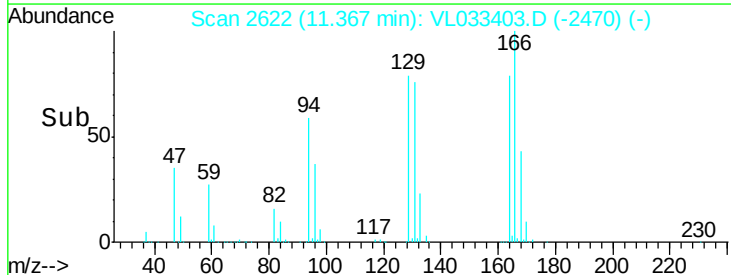
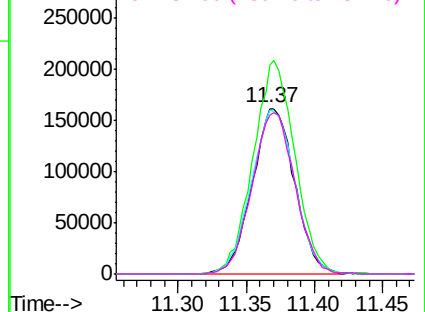


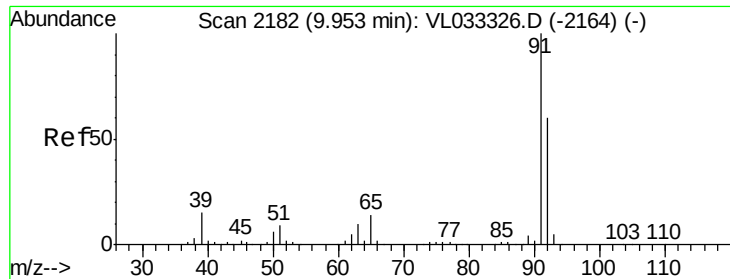
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.135 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

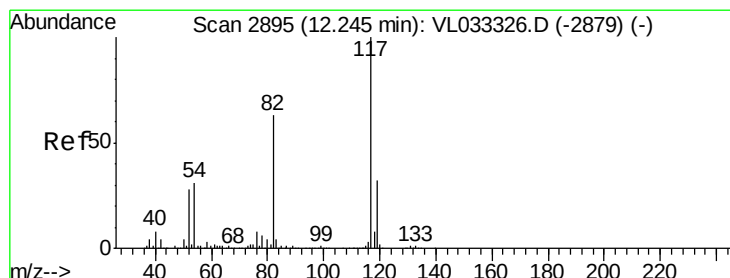
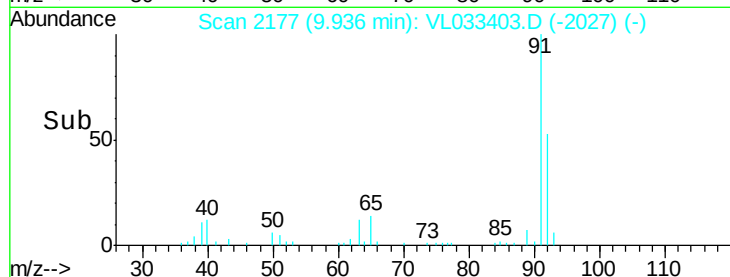
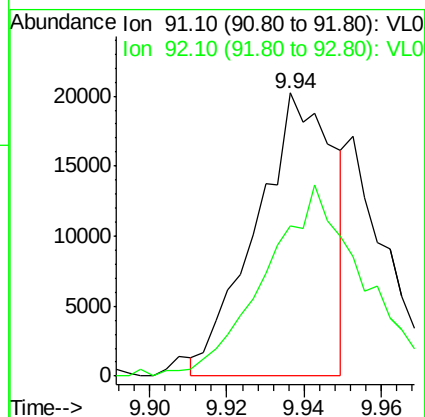
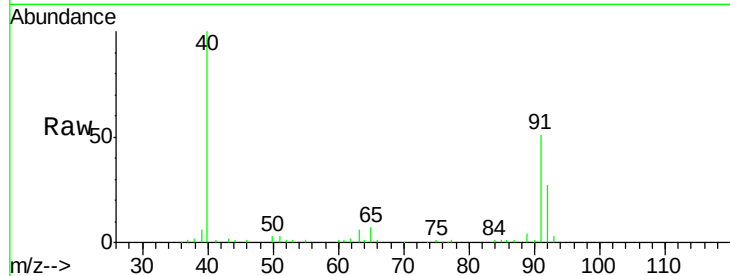
IA1DL

Tgt Ion: 91 Resp: 28263

Ion Ratio Lower Upper

91 100

92 86.3 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

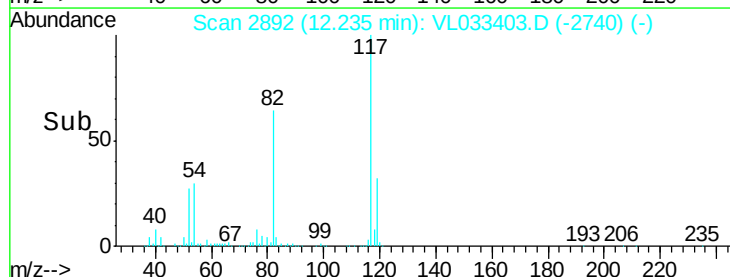
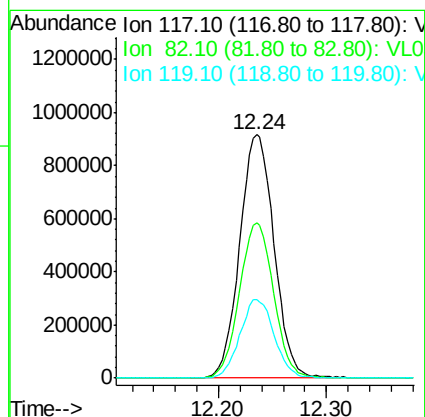
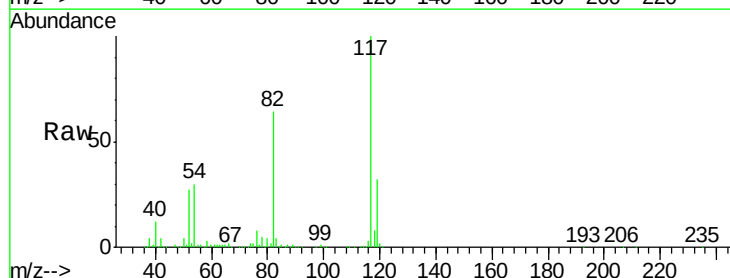
Tgt Ion: 117 Resp: 2032382

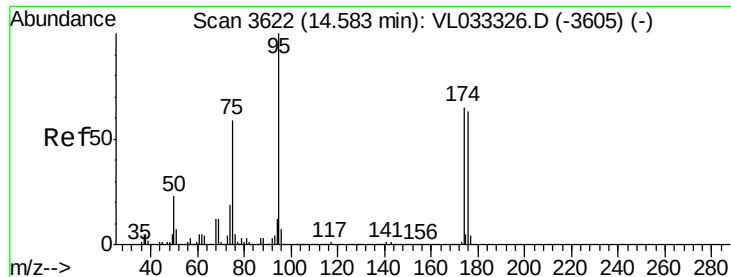
Ion Ratio Lower Upper

117 100

82 63.8 53.4 80.2

119 32.4 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.816 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 95 Resp: 1478220

Ion Ratio Lower Upper

95 100

174 67.1 51.5 77.3

175 4.8 3.8 5.6

