

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033476.D
 Acq On : 27 Mar 2019 20:05
 Operator : SY/AP
 Sample : K2042-12DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:29:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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	752866	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1719063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1825581	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1422558	9.94	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

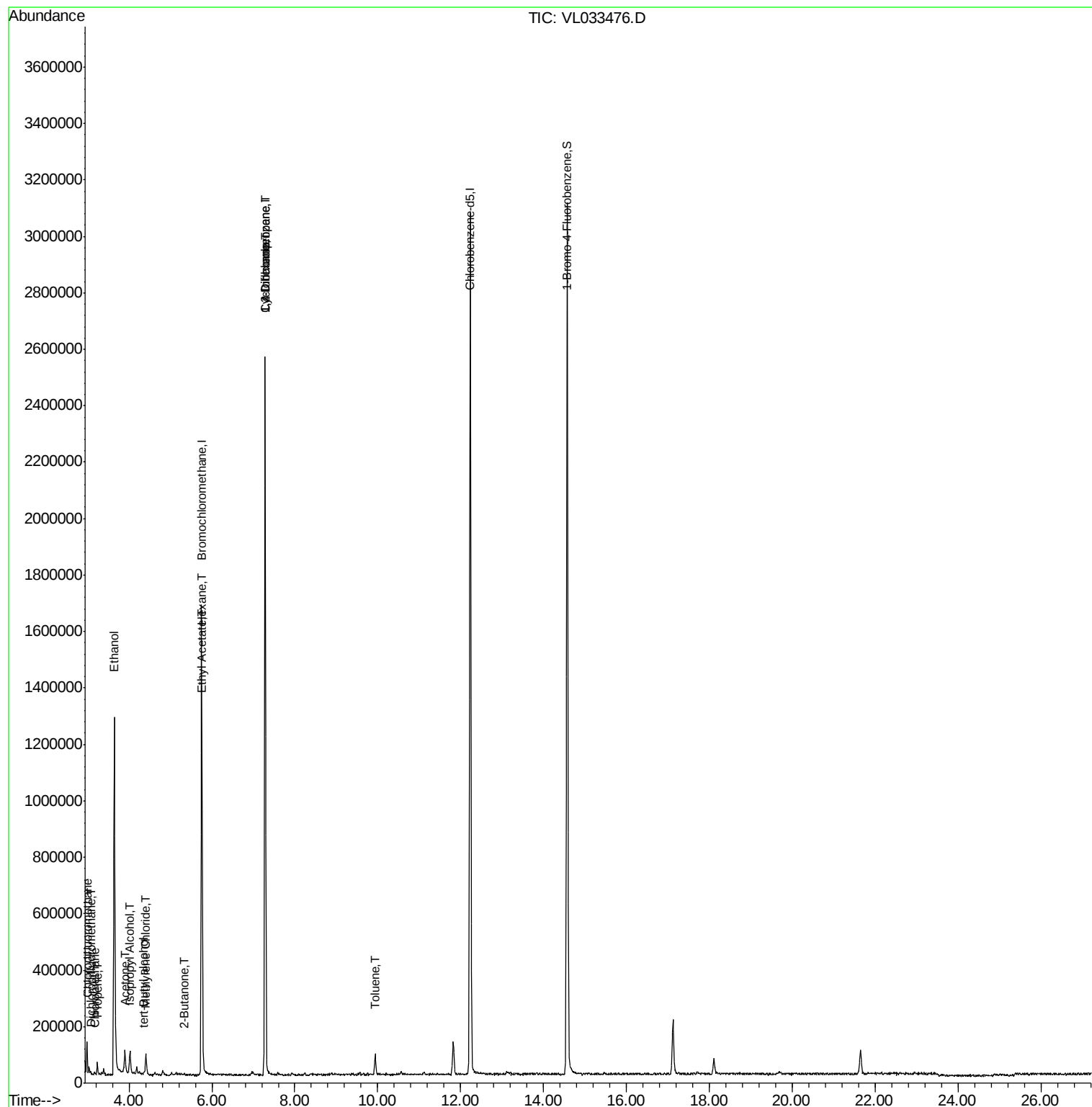
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6370	0.058	ppbv	91
3) Chlorodifluoromethane	2.98	51	67445	0.778	ppbv #	59
4) Chloromethane	3.17	50	2736	0.060	ppbv #	87
9) Propene	3.24	41	9417	0.259	ppbv	86
13) Ethanol	3.64	45	1414966	150.222	ppbv	64
15) Acetone	3.90	43	78038	0.862	ppbv	98
17) tert-Butyl alcohol	4.35	59	1768	0.106	ppbv #	73
19) Isopropyl Alcohol	4.02	45	75787	1.324	ppbv #	94
20) Methylene Chloride	4.40	84	25321	0.659	ppbv	99
25) Ethyl Acetate	5.77	43	13876	0.083	ppbv #	83
26) Hexane	5.77	57	15849	0.212	ppbv #	43
30) Cyclohexane	7.28	84	1331	0.023	ppbv #	1
34) 2-Butanone	5.33	43	2355	0.023	ppbv #	56
39) 1,2-Dichloropropane	7.28	63	455401	8.060	ppbv #	25
53) Toluene	9.94	91	52731	0.315	ppbv	96

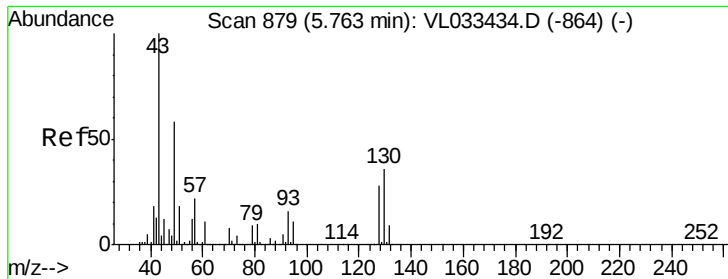
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

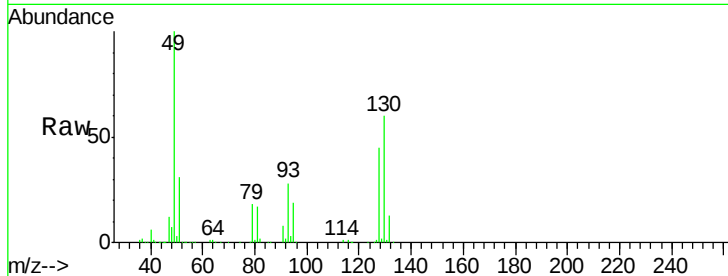
Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 752866

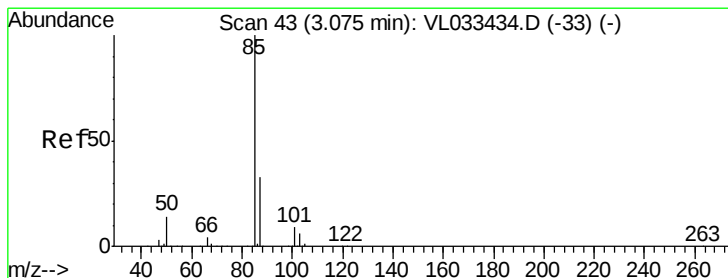
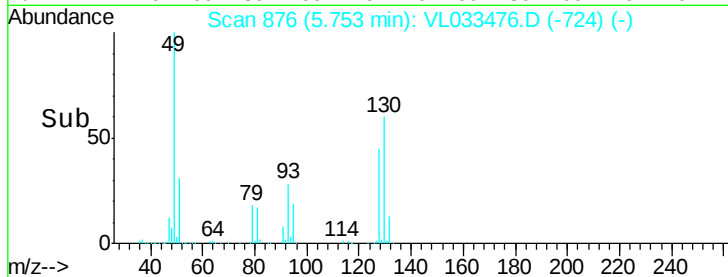
Ion	Ratio	Lower	Upper
49	100		
128	48.2	24.0	72.0
130	61.9	31.2	93.6



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: 3.07 min Scan# 42

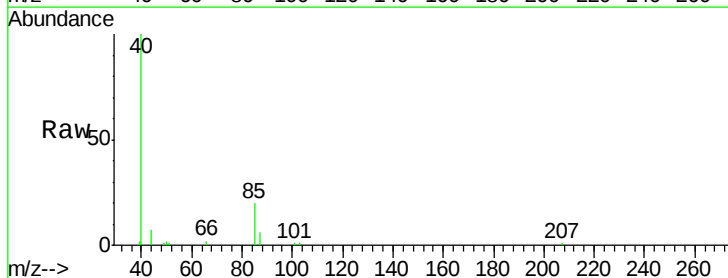
Delta R.T. -0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

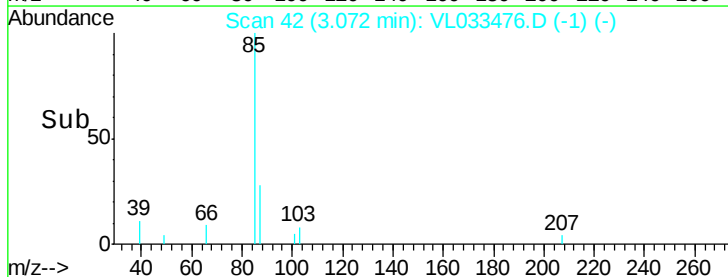
Tgt Ion: 85 Resp: 6370

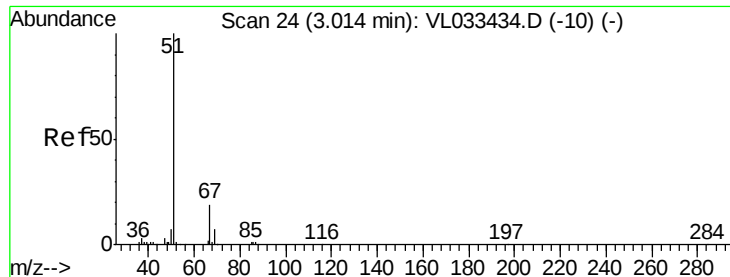
Ion	Ratio	Lower	Upper
85	100		
87	28.0	26.7	40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.778 ppbv

RT: 2.98 min Scan# 14

Delta R.T. -0.03 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

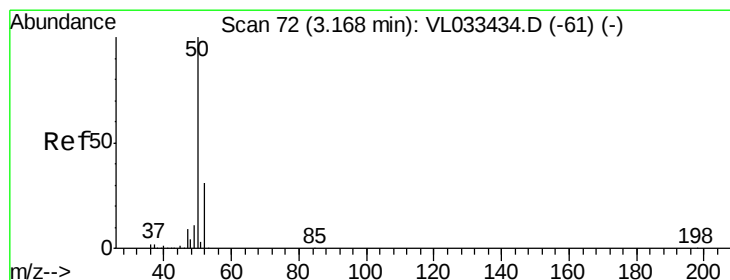
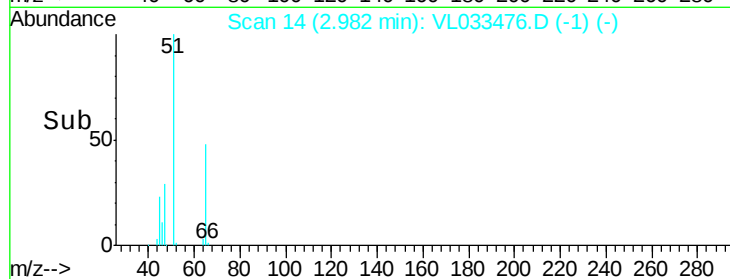
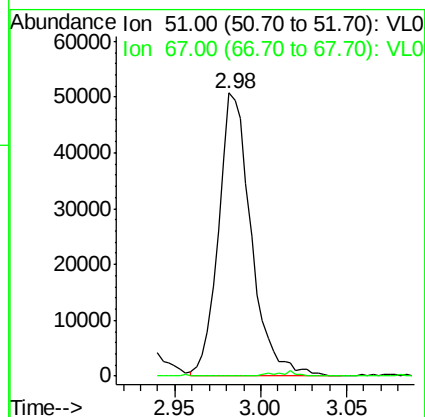
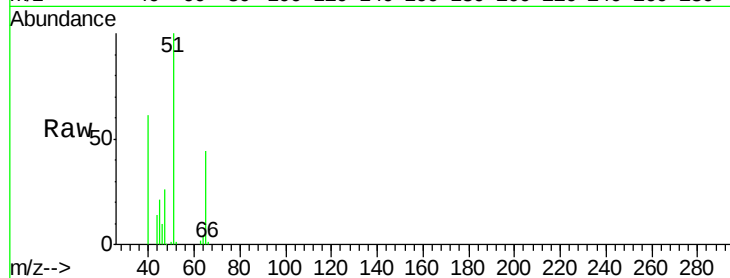
ClientSampleId :

Tot Ion: 51 Resp: 67445

Ion Ratio Lower Upper

51 100

67 1.0 15.7 23.5#



#4

Chloromethane

Concen: 0.060 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033476.D

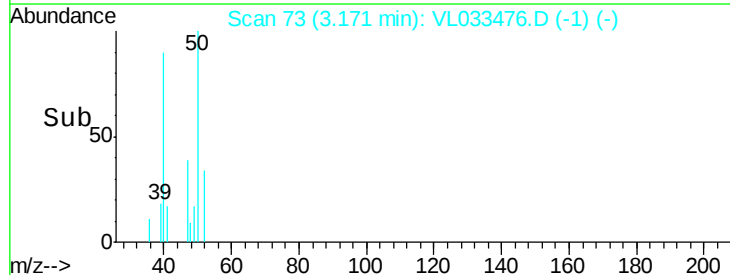
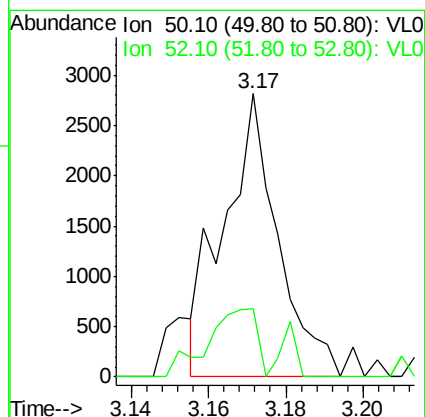
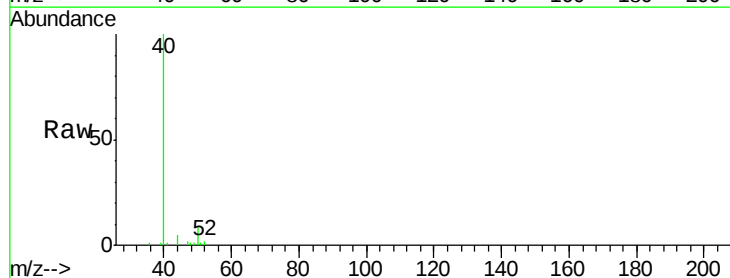
Acq: 27 Mar 2019 20:05

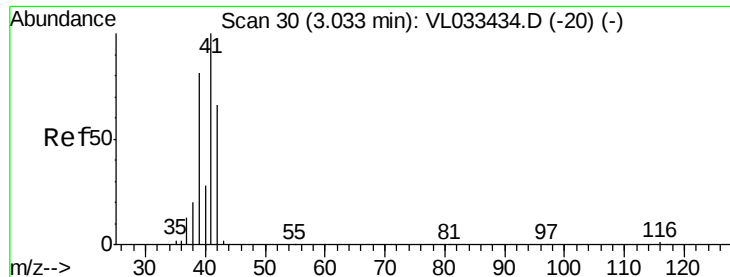
Tgt Ion: 50 Resp: 2736

Ion Ratio Lower Upper

50 100

52 24.2 25.0 37.6#





#9

Propene

Concen: 0.259 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

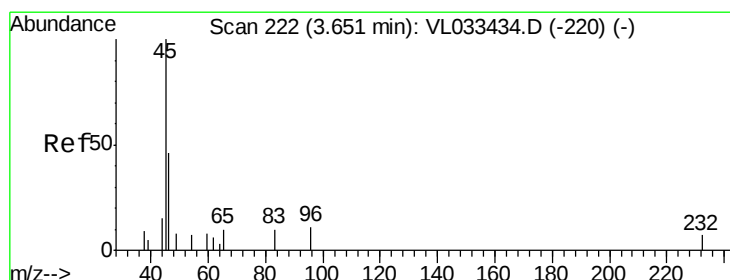
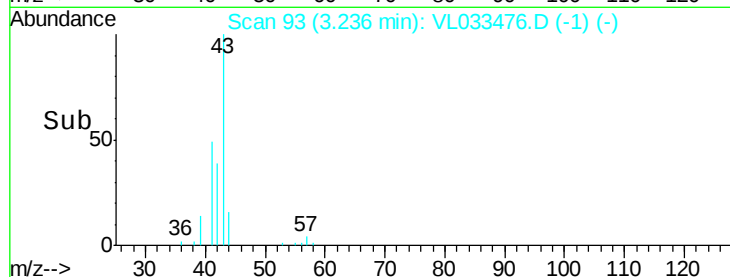
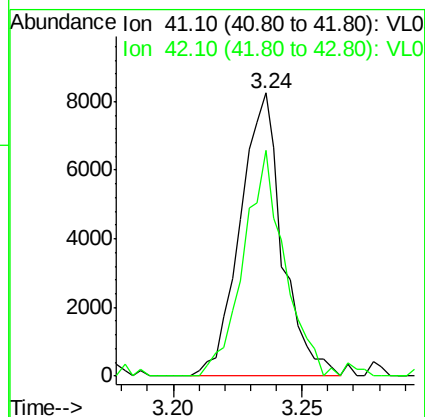
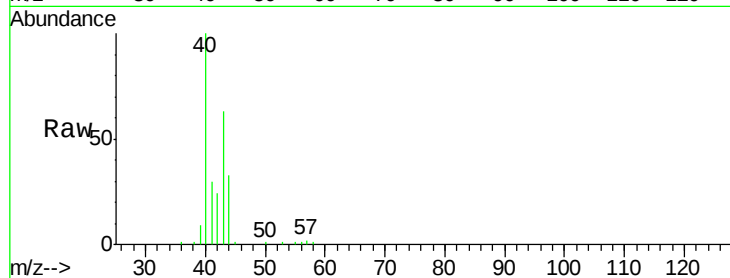
ClientSampleId :

Tot Ion: 41 Resp: 9417

Ion Ratio Lower Upper

41 100

42 79.0 53.9 80.9



#13

Ethanol

Concen: 150.222 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033476.D

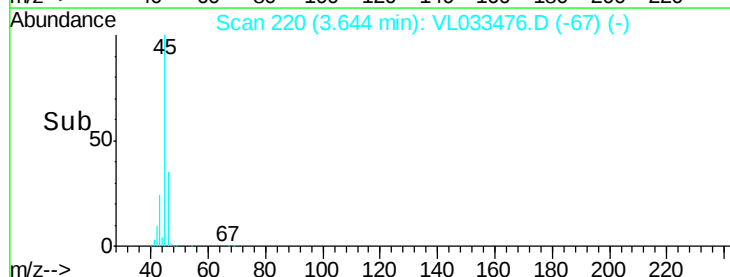
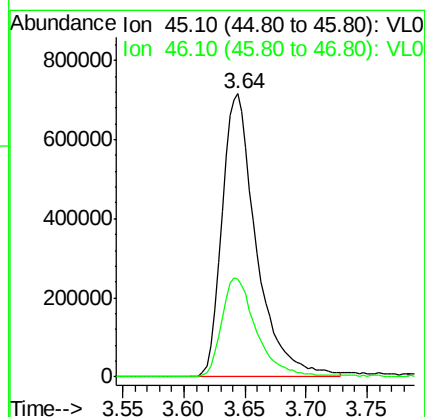
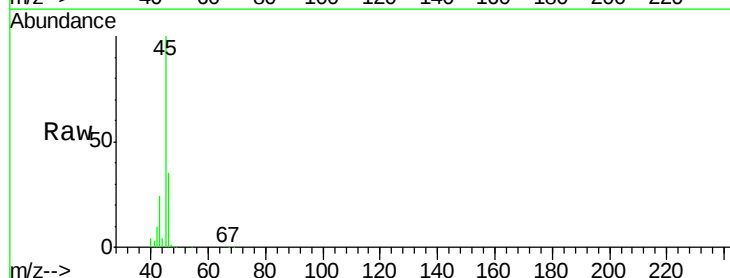
Acq: 27 Mar 2019 20:05

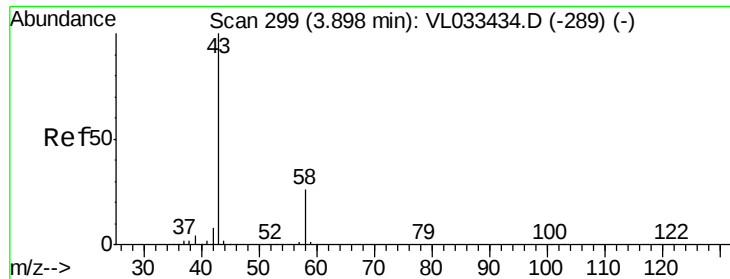
Tgt Ion: 45 Resp: 1414966

Ion Ratio Lower Upper

45 100

46 35.7 25.4 101.8





#15

Acetone

Concen: 0.862 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

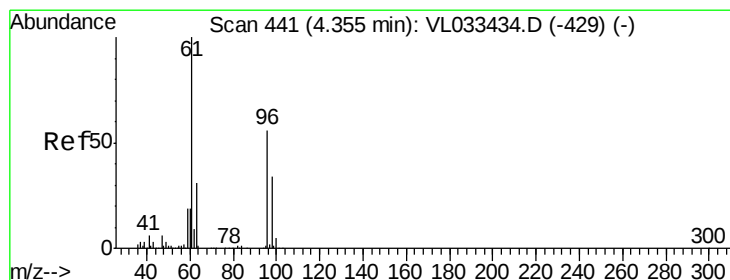
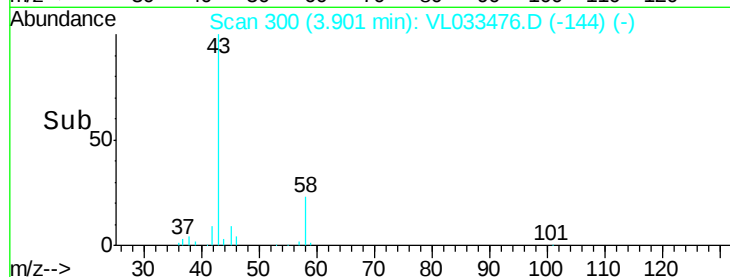
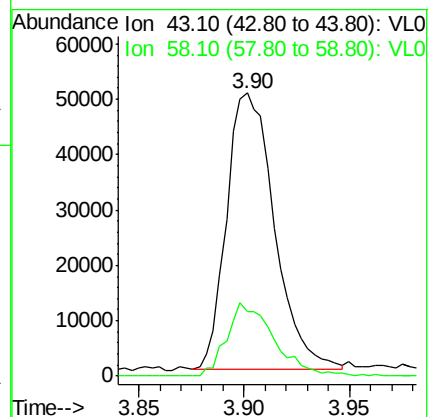
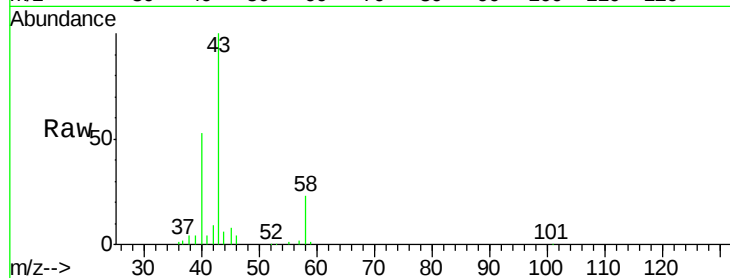
ClientSampleId :

Tot Ion: 43 Resp: 78038

Ion Ratio Lower Upper

43 100

58 26.6 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.106 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033476.D

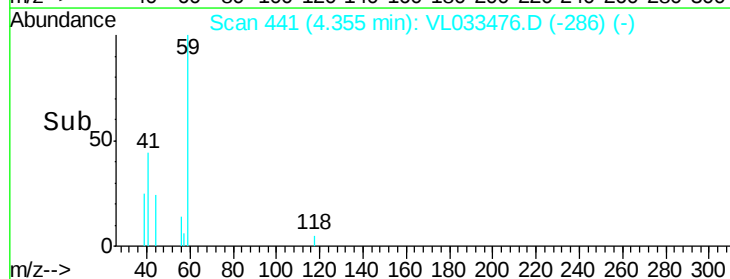
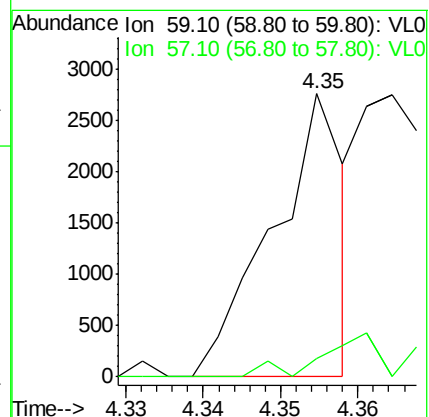
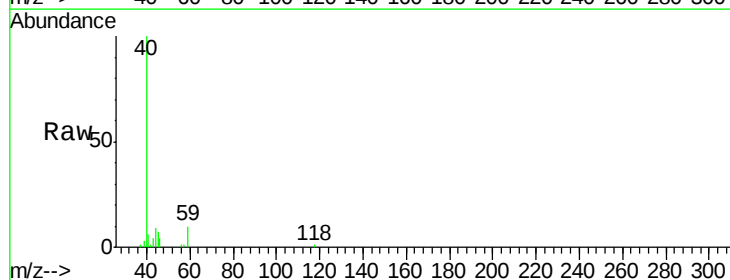
Acq: 27 Mar 2019 20:05

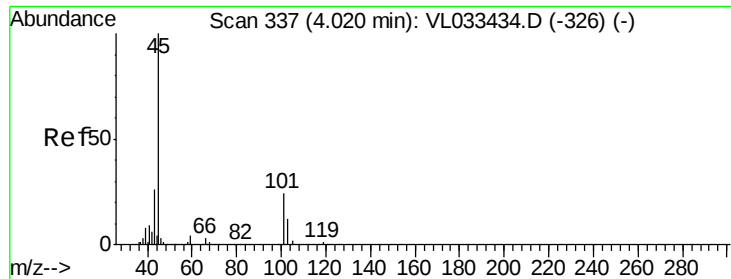
Tgt Ion: 59 Resp: 1768

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 1.324 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

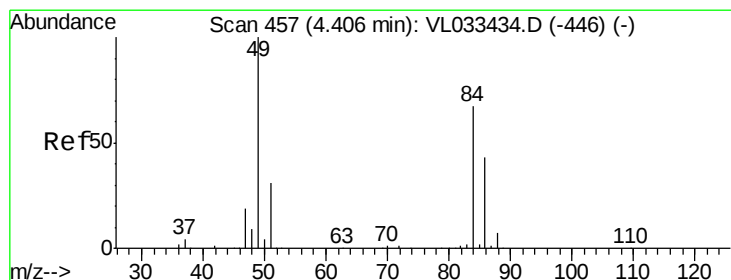
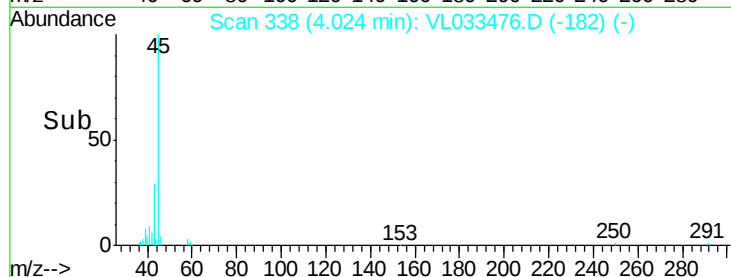
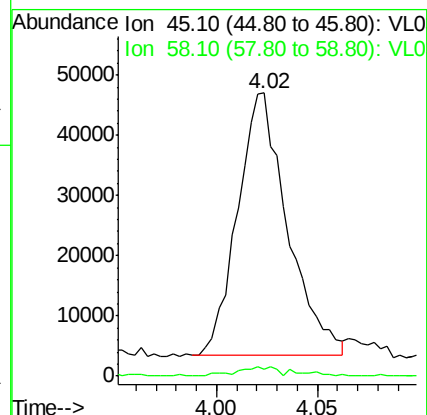
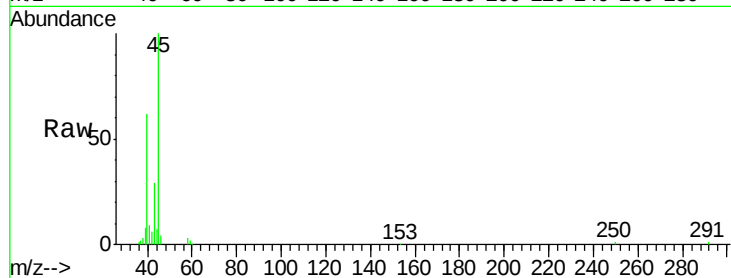
ClientSampleId :

Tot Ion: 45 Resp: 75787

Ion Ratio Lower Upper

45 100

58 3.8 1.4 2.2#



#20

Methylene Chloride

Concen: 0.659 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Tgt Ion: 84 Resp: 25321

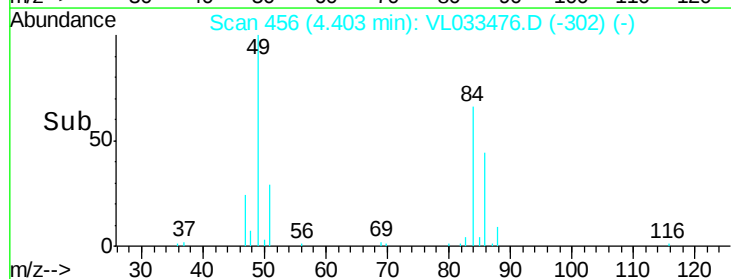
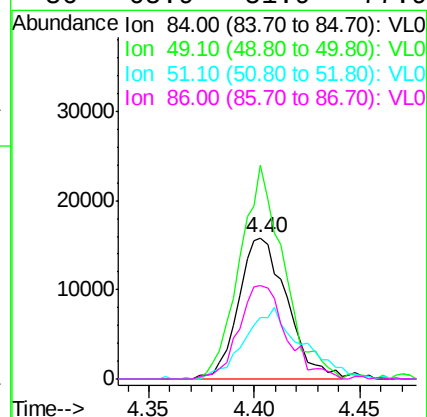
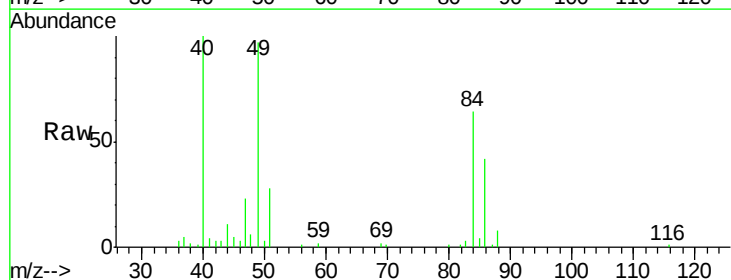
Ion Ratio Lower Upper

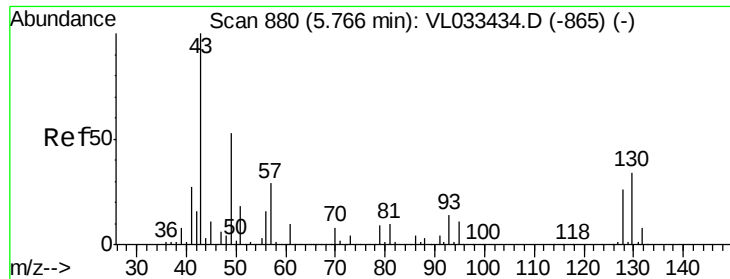
84 100

49 151.0 120.0 180.0

51 43.7 36.7 55.1

86 65.9 51.9 77.9

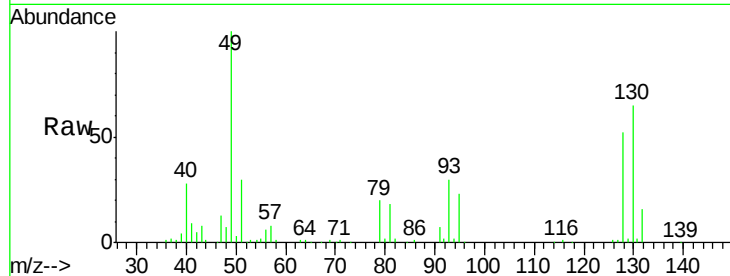




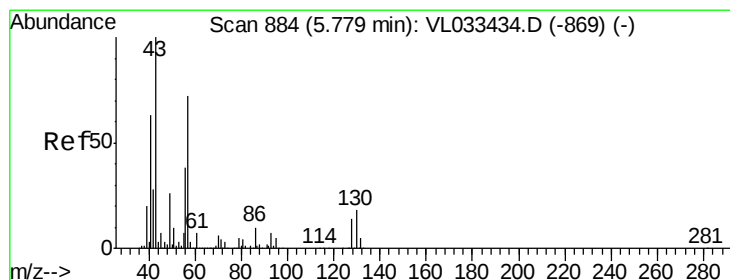
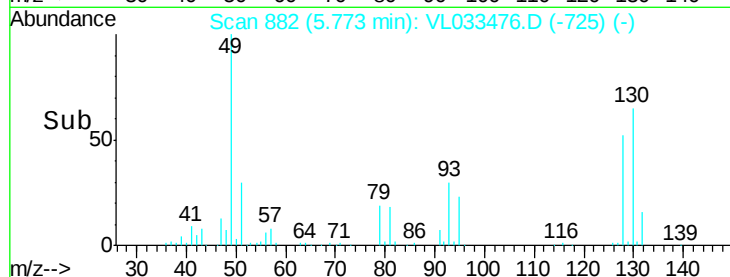
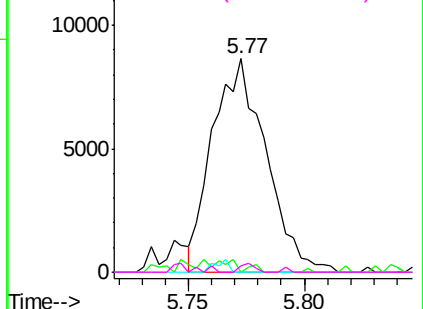
#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	13876
Ion	Ratio	Lower	Upper
43	100		
45	6.0	7.8	11.6#
61	1.6	7.3	10.9#
70	0.0	5.6	8.4#

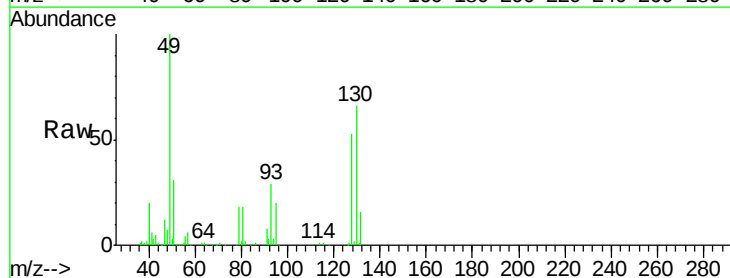


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

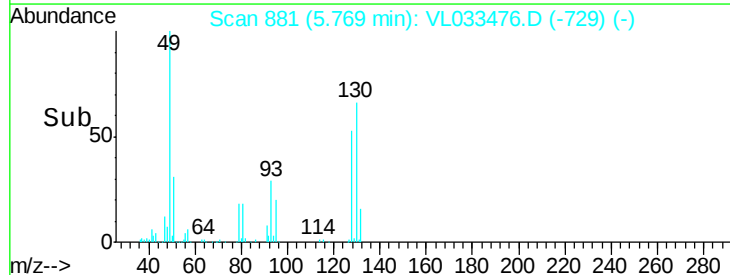
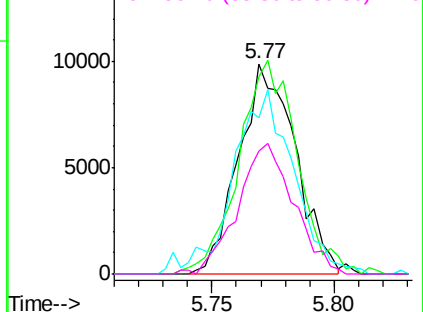


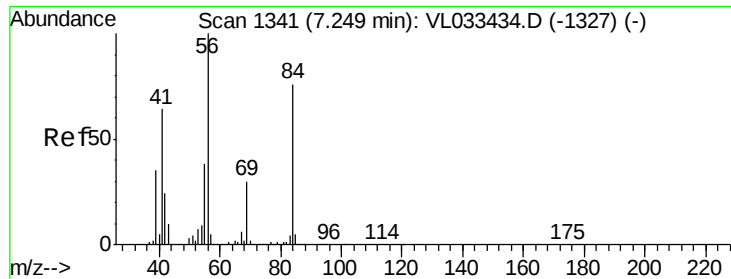
#26
Hexane
Concen: 0.212 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Tgt Ion:	57	Resp:	15849
Ion	Ratio	Lower	Upper
57	100		
41	105.8	70.7	106.1
43	94.5	182.6	274.0#
56	61.5	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

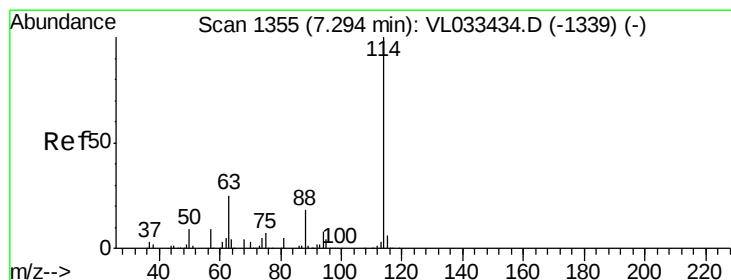
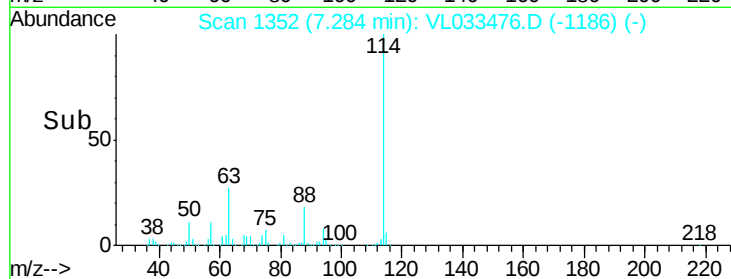
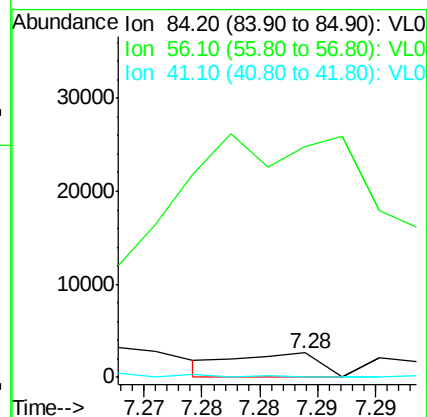
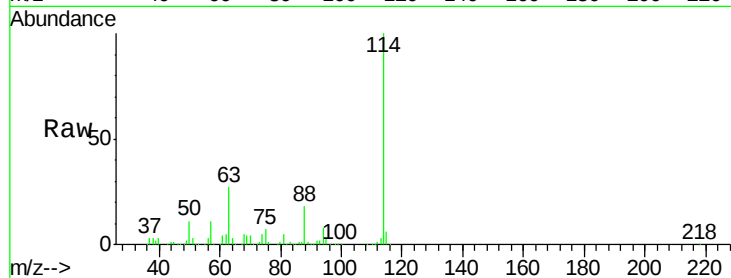




#30
Cyclohexane
Concen: 0.023 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. 0.04 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

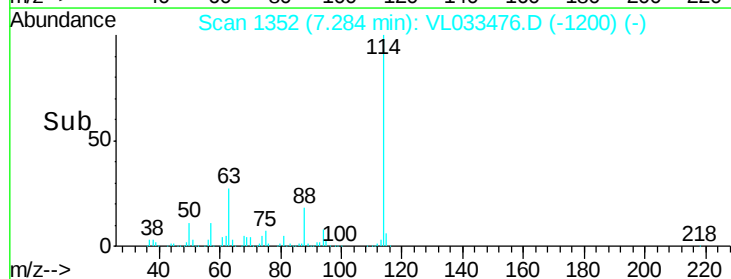
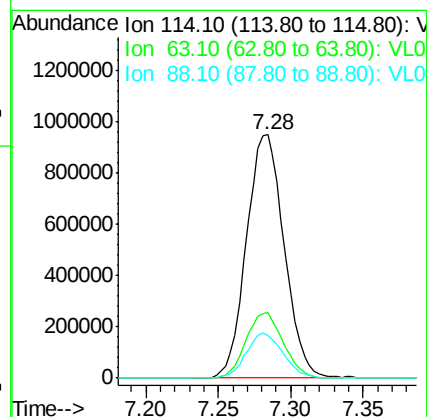
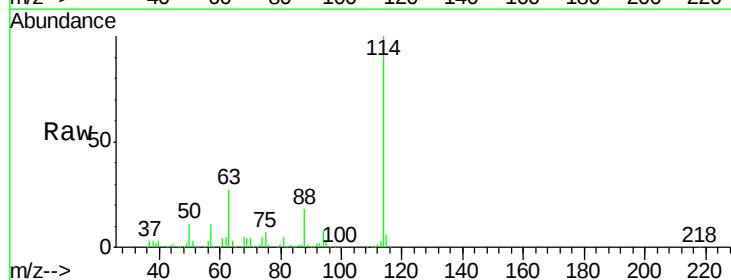
Instrument :
MSVOA_L
ClientSampleId :

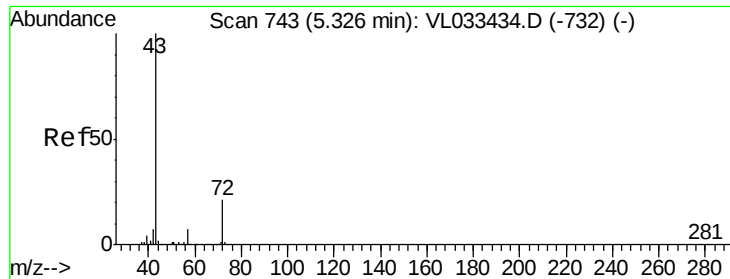
Tot Ion: 84 Resp: 1331
Ion Ratio Lower Upper
84 100
56 3498.3 109.7 164.5#
41 0.0 68.2 102.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Tgt Ion: 114 Resp: 1719063
Ion Ratio Lower Upper
114 100
63 26.7 21.5 32.3
88 18.1 14.5 21.7





#34

2-Butanone

Concen: 0.023 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

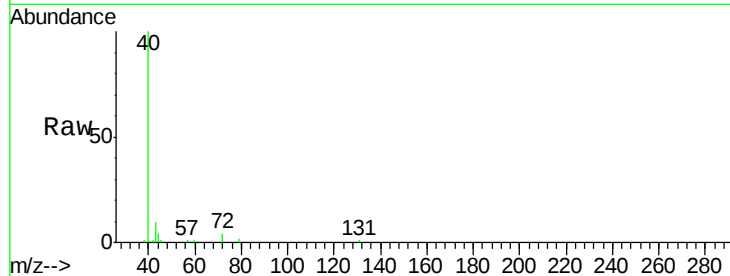
ClientSampleId :

Tot Ion: 43 Resp: 2355

Ion Ratio Lower Upper

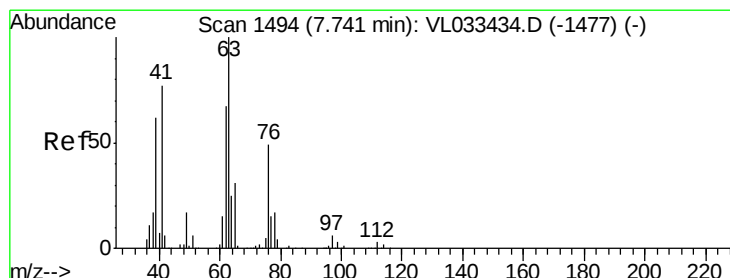
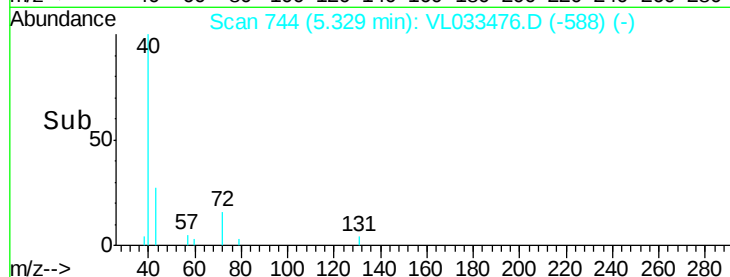
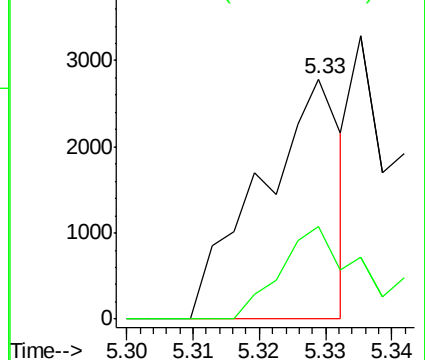
43 100

72 42.5 17.4 26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.060 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

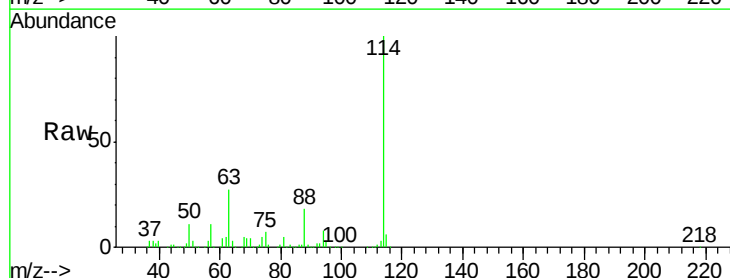
Tgt Ion: 63 Resp: 455401

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

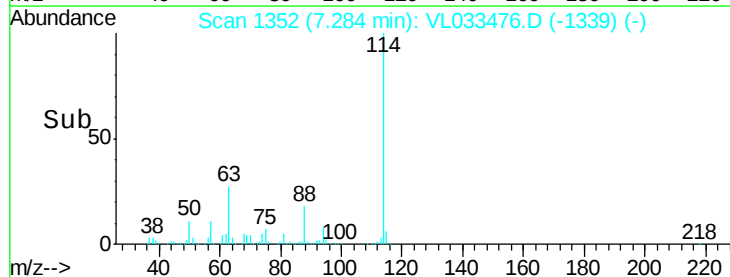
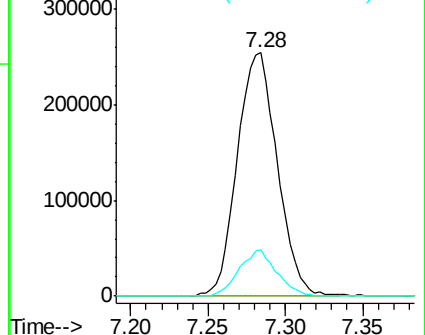
62 19.4 54.0 81.0#

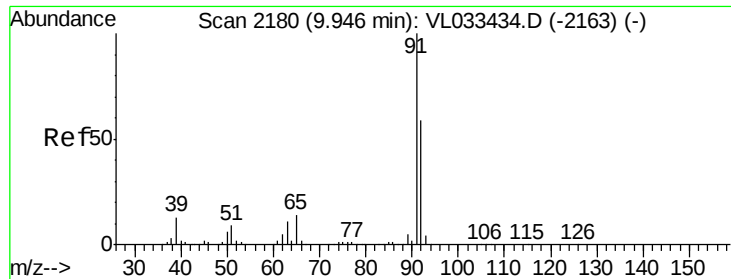


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.315 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

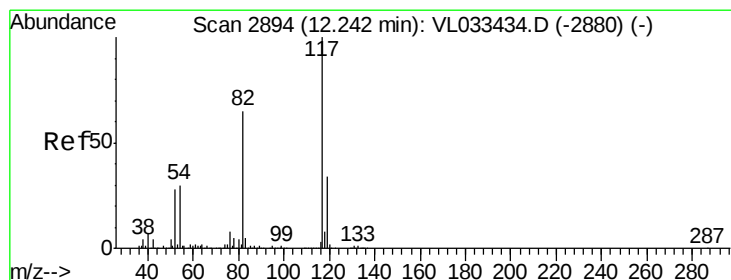
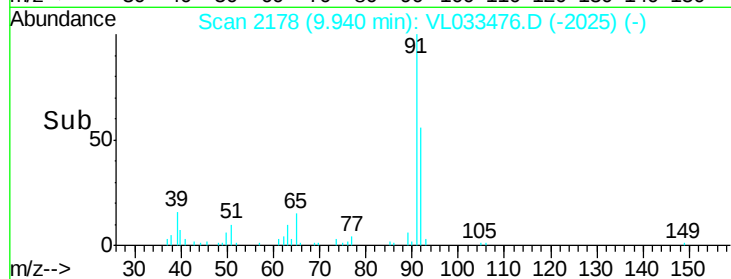
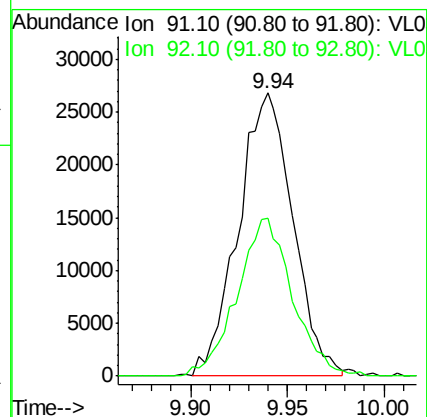
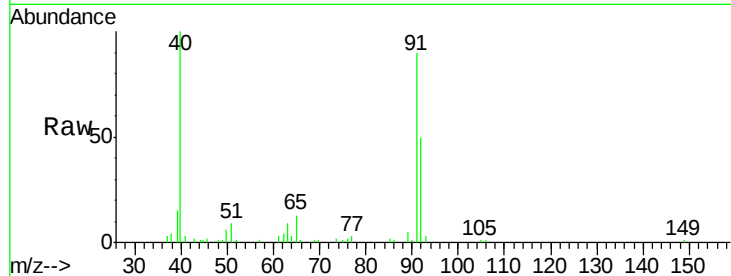
ClientSampleId :

Tot Ion: 91 Resp: 52731

Ion Ratio Lower Upper

91 100

92 56.4 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: VL033476.D

Acq: 27 Mar 2019 20:05

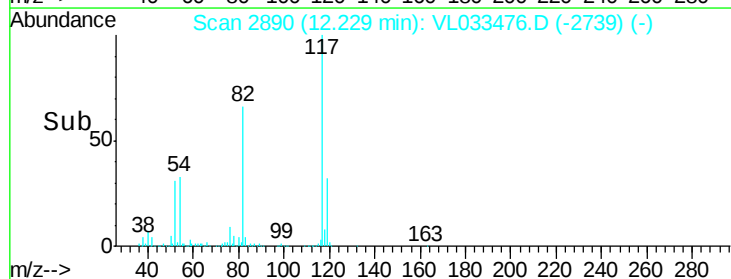
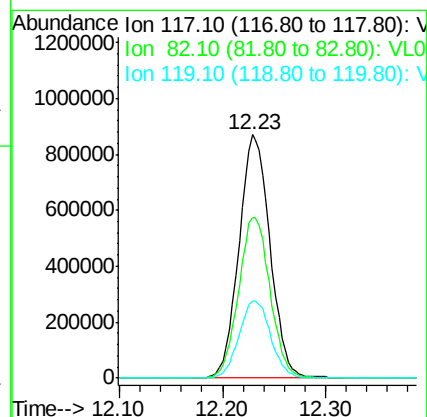
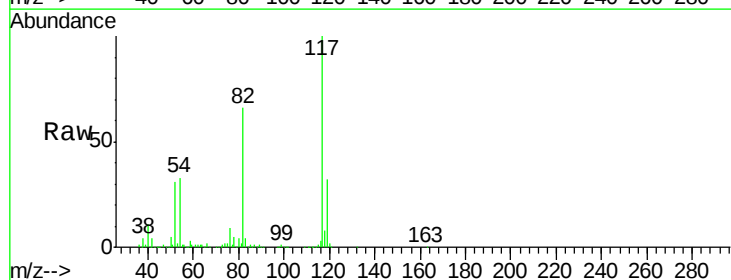
Tgt Ion: 117 Resp: 1825581

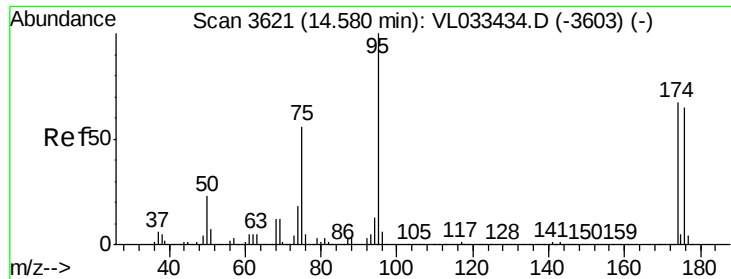
Ion Ratio Lower Upper

117 100

82 67.2 51.5 77.3

119 32.5 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.940 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

ClientSampleId :

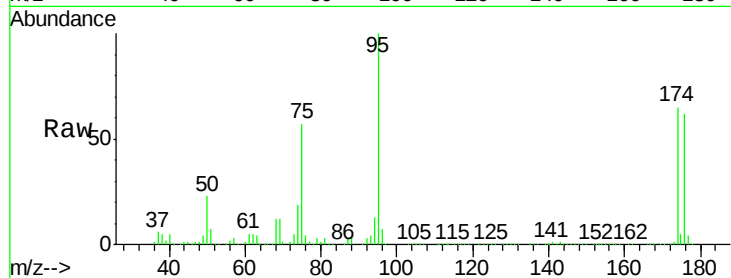
Tot Ion: 95 Resp: 1422558

Ion Ratio Lower Upper

95 100

174 65.4 52.9 79.3

175 4.6 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

