

Data File : VL034608.D
Acq On : 6 Feb 2020 20:55
Operator : SY/AP
Sample : L1435-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Quant Time: Feb 07 07:38:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	896885	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.21	114	1838077	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	1788380	10.00	ppbv	0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.49 95 1576277 10.43 ppbv 0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.30%

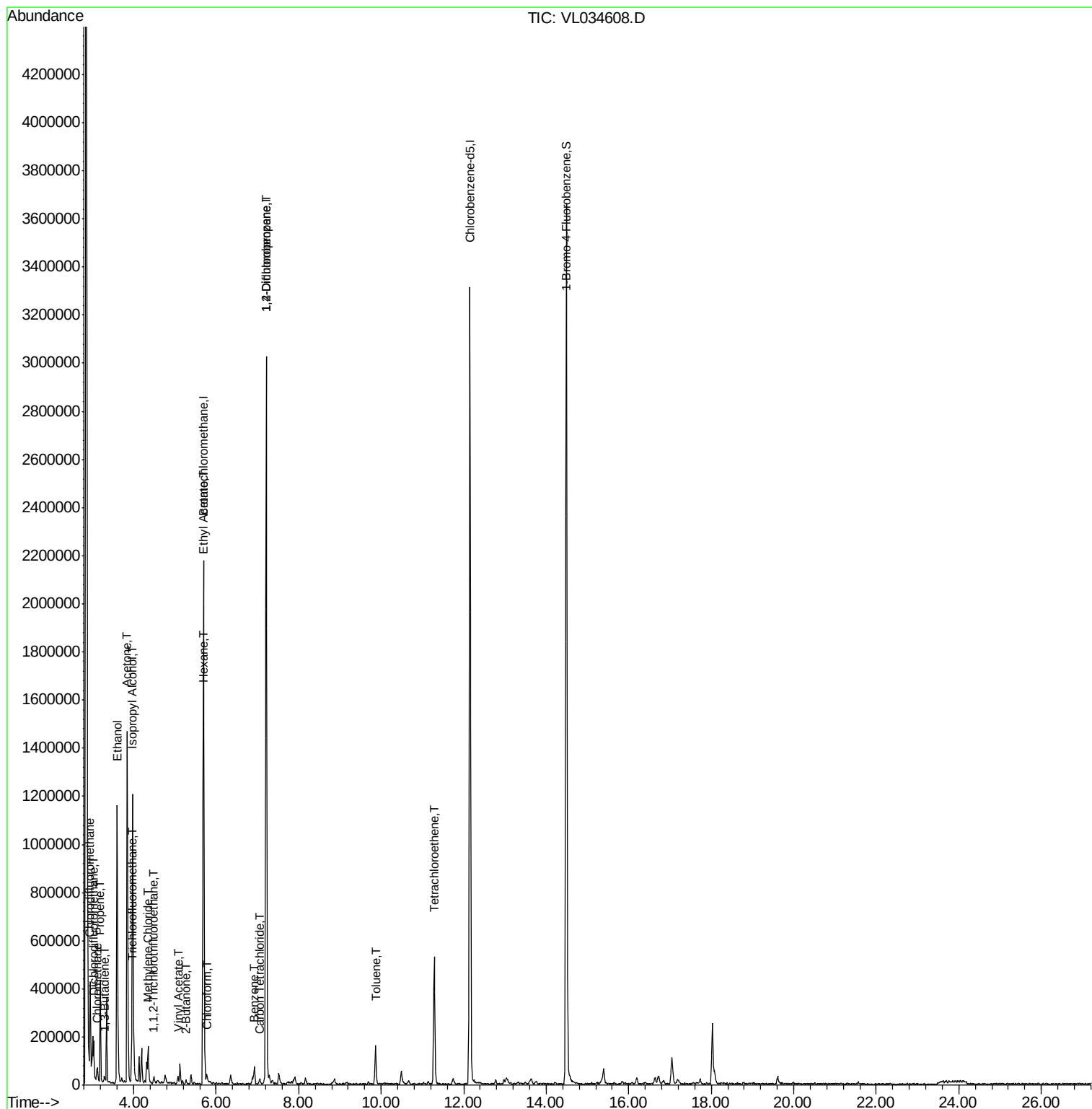
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.03	85	98007	0.496 ppbv	90
3) Chlorodifluoromethane	2.94	51	225921	2.085 ppbv #	60
4) Chloromethane	3.12	50	31772	0.479 ppbv #	88
9) Propene	3.19	41	101036	2.394 ppbv	94
11) Trichlorofluoromethane	3.94	101	44387	0.247 ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.49	101	8715	0.074 ppbv	83
13) Ethanol	3.60	45	1113515	98.520 ppbv	99
15) Acetone	3.84	43	1418452	10.761 ppbv	99
16) 1,3-Butadiene	3.29	39	5901	0.113 ppbv #	40
19) Isopropyl Alcohol	3.97	45	1257949	16.353 ppbv #	99
20) Methylene Chloride	4.35	84	46380	0.924 ppbv	92
23) Vinyl Acetate	5.09	43	6256	0.042 ppbv #	36
25) Ethyl Acetate	5.70	43	61789	0.290 ppbv #	93
26) Hexane	5.71	57	41437	0.464 ppbv #	63
29) Chloroform	5.78	83	7968	0.050 ppbv	99
34) 2-Butanone	5.27	43	12426	0.093 ppbv #	67
35) Carbon Tetrachloride	7.05	117	8302	0.047 ppbv #	89
36) Benzene	6.92	78	43841	0.268 ppbv #	89
39) 1,2-Dichloropropane	7.21	63	542382	8.004 ppbv #	20
52) Tetrachloroethene	11.28	164	107022	1.630 ppbv	96
53) Toluene	9.86	91	102113	0.569 ppbv	99

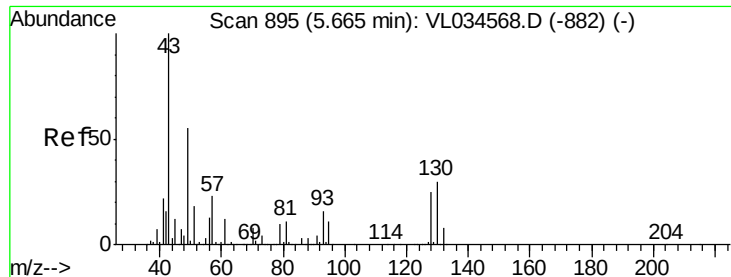
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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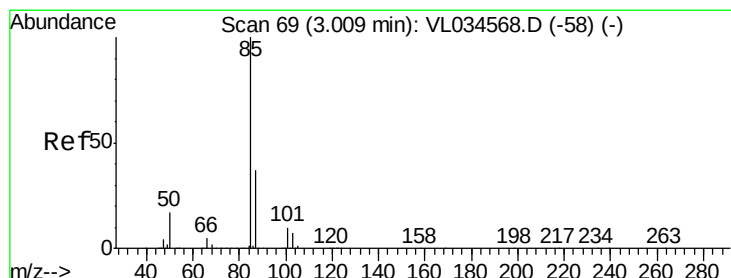
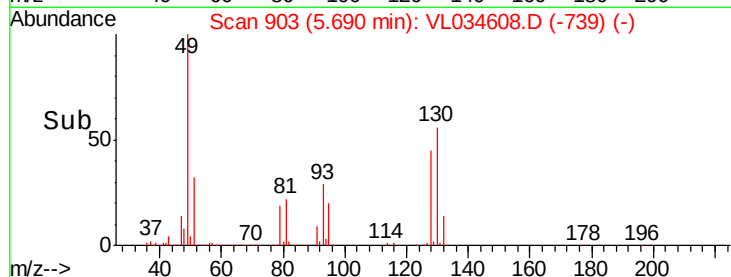
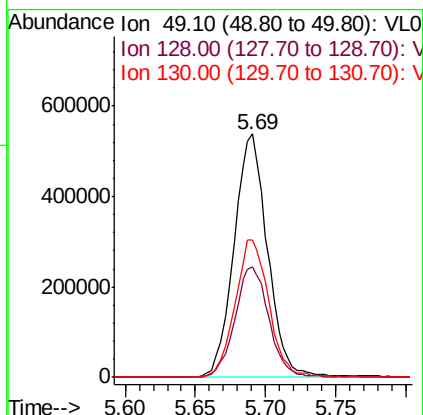
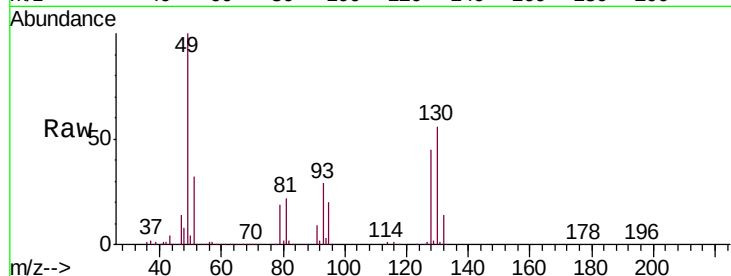




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.03 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

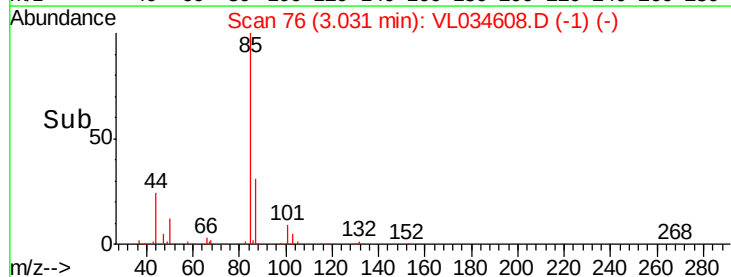
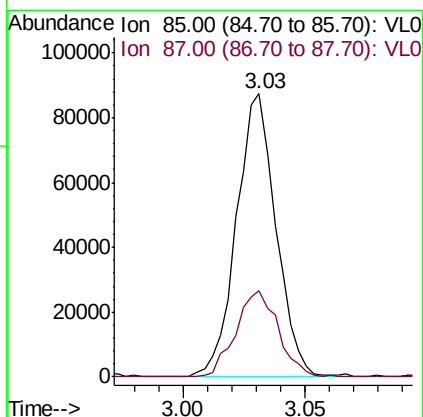
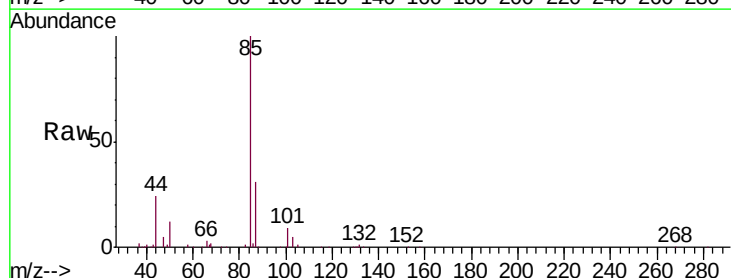
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

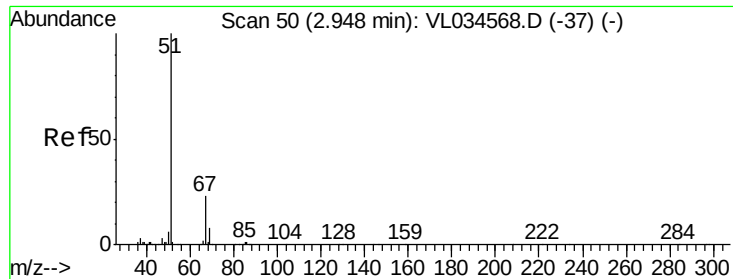
Tgt Ion: 49 Resp: 896885
 Ion Ratio Lower Upper
 49 100
 128 46.4 22.7 68.1
 130 57.5 28.6 85.8



#2
 Dichlorodifluoromethane
 Concen: 0.496 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. 0.02 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

Tgt Ion: 85 Resp: 98007
 Ion Ratio Lower Upper
 85 100
 87 30.7 29.5 44.3

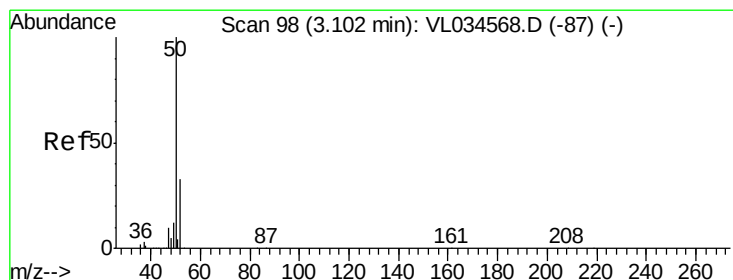
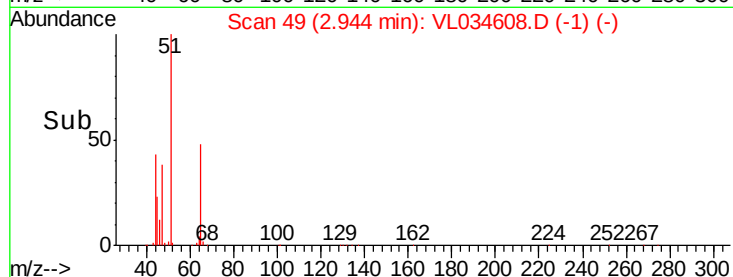
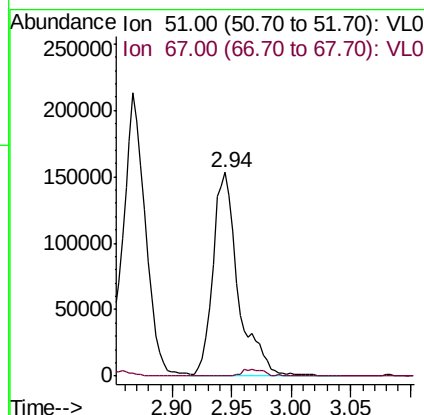
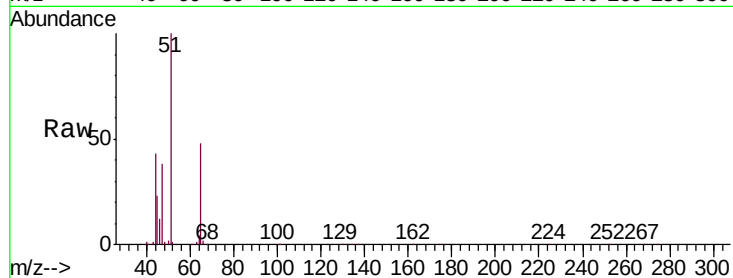




#3
 Chlorodifluoromethane
 Concen: 2.085 ppbv
 RT: 2.94 min Scan# 49
 Delta R.T. -0.00 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

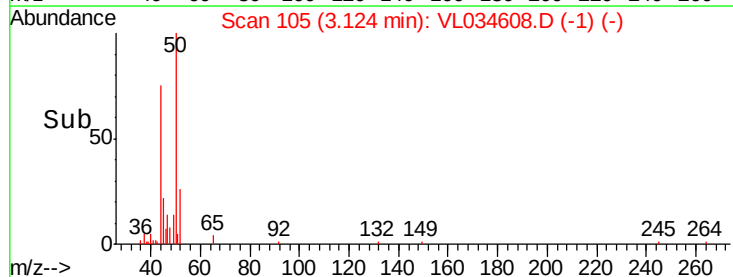
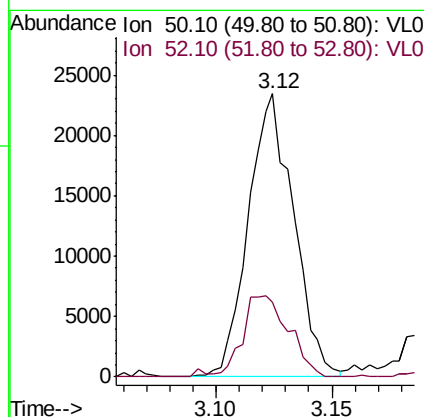
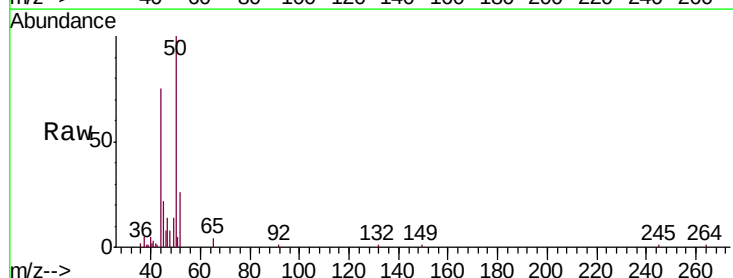
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

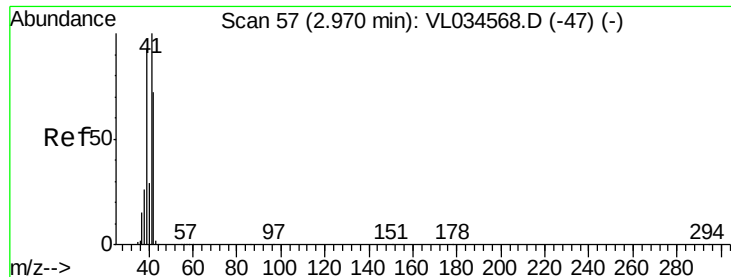
Tgt Ion: 51 Resp: 225921
 Ion Ratio Lower Upper
 51 100
 67 3.1 17.8 26.8#



#4
 Chloromethane
 Concen: 0.479 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. 0.02 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

Tgt Ion: 50 Resp: 31772
 Ion Ratio Lower Upper
 50 100
 52 26.3 26.6 39.8#





#9

Propene

Concen: 2.394 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.22 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

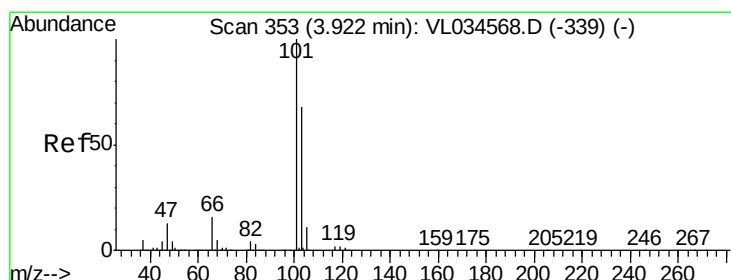
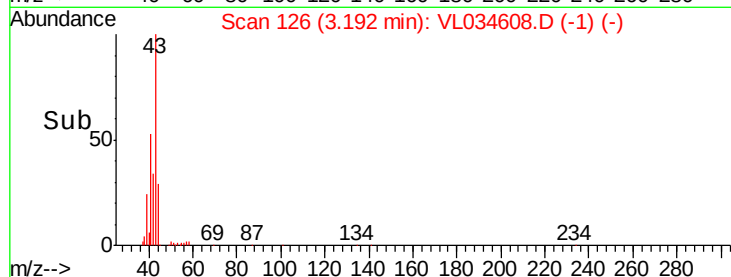
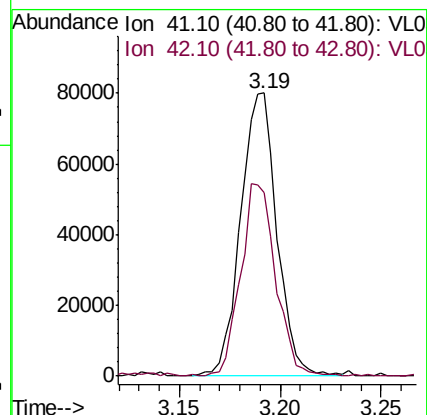
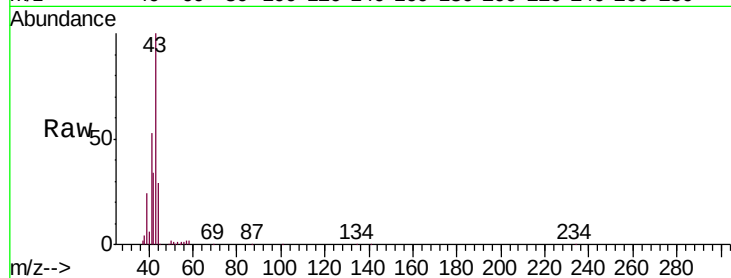
IA-4

Tgt Ion: 41 Resp: 101036

Ion Ratio Lower Upper

41 100

42 65.9 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.247 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.02 min

Lab File: VL034608.D

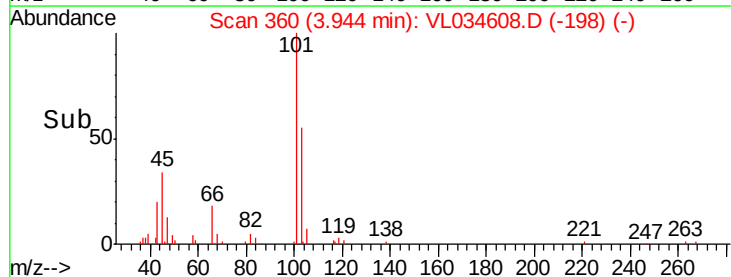
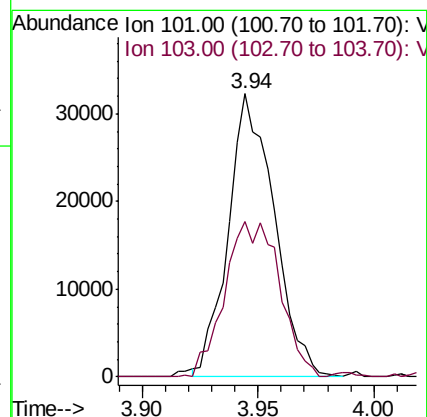
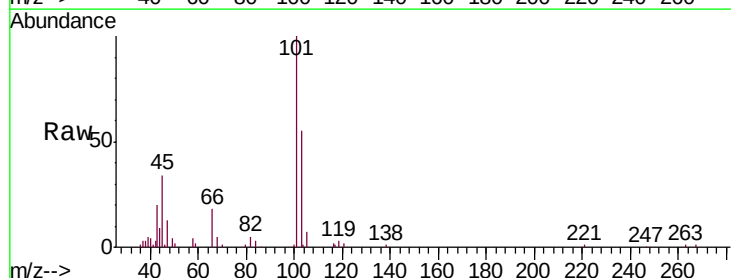
Acq: 6 Feb 2020 20:55

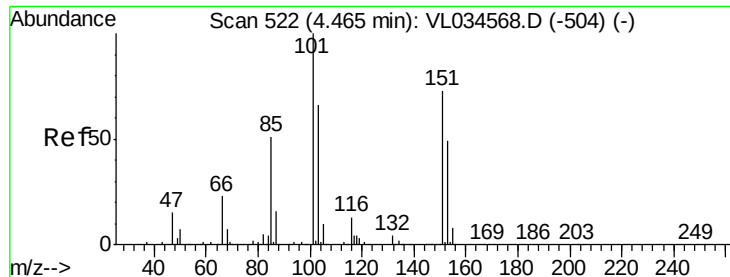
Tgt Ion: 101 Resp: 44387

Ion Ratio Lower Upper

101 100

103 55.0 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.074 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampled :

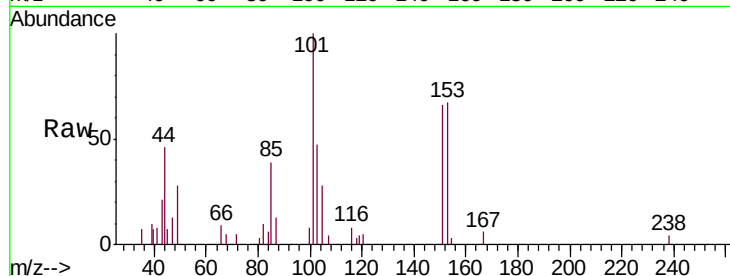
IA-4

Tgt Ion:101 Resp: 8715

Ion Ratio Lower Upper

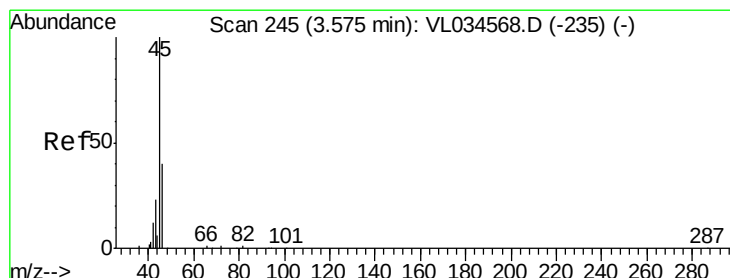
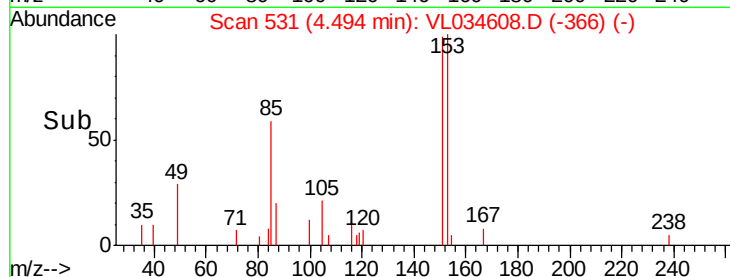
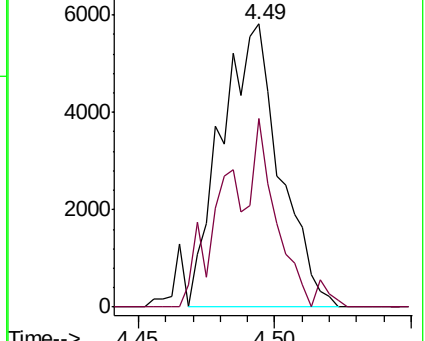
101 100

151 57.5 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 98.520 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL034608.D

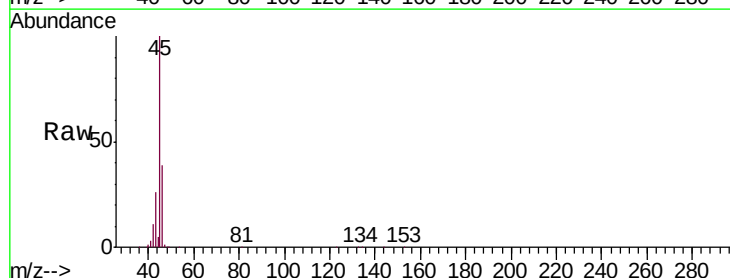
Acq: 6 Feb 2020 20:55

Tgt Ion: 45 Resp: 1113515

Ion Ratio Lower Upper

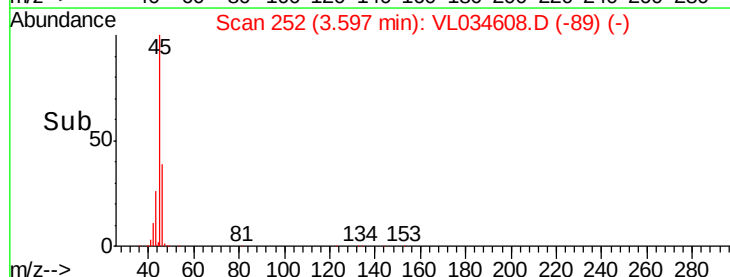
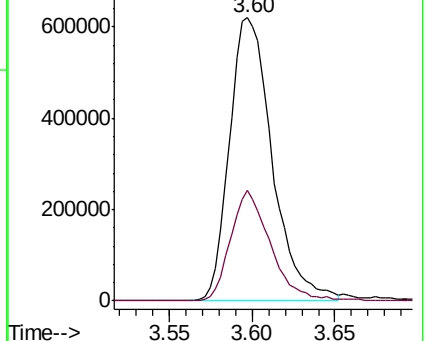
45 100

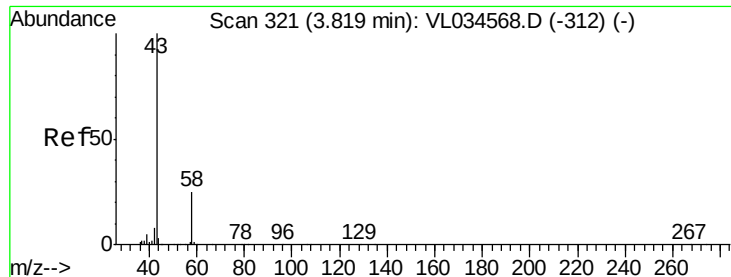
46 36.6 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.761 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

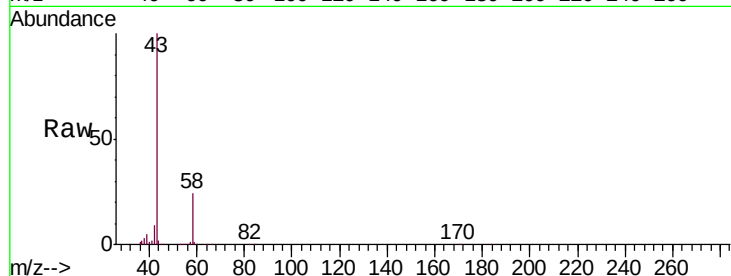
IA-4

Tgt Ion: 43 Resp: 1418452

Ion Ratio Lower Upper

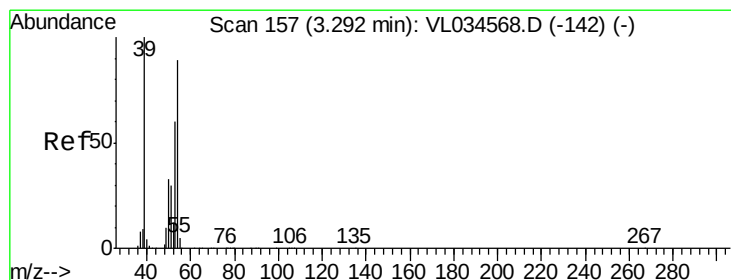
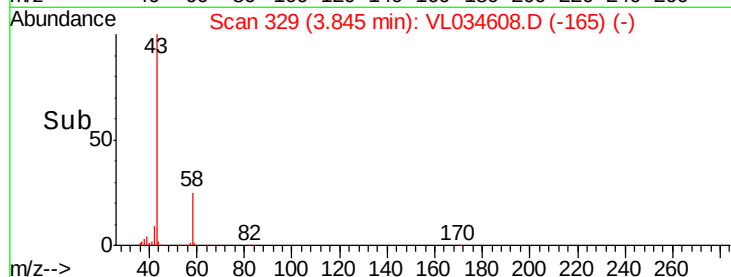
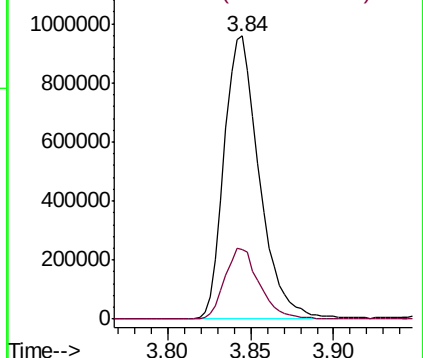
43 100

58 24.7 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.113 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034608.D

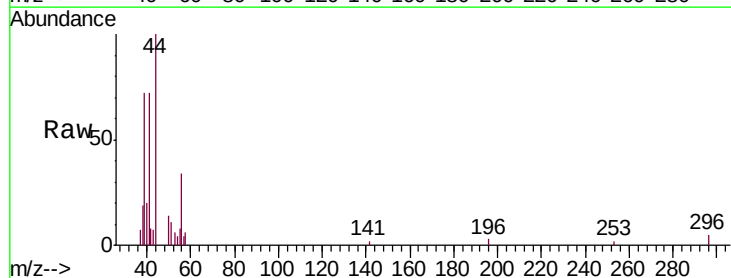
Acq: 6 Feb 2020 20:55

Tgt Ion: 39 Resp: 5901

Ion Ratio Lower Upper

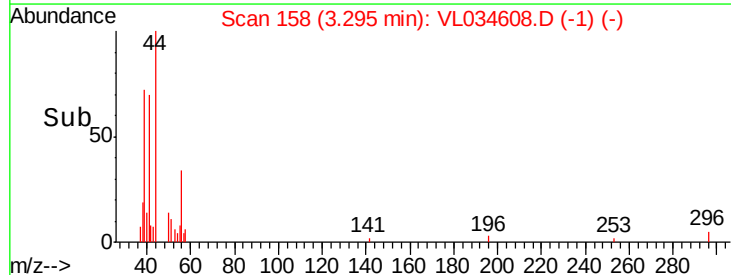
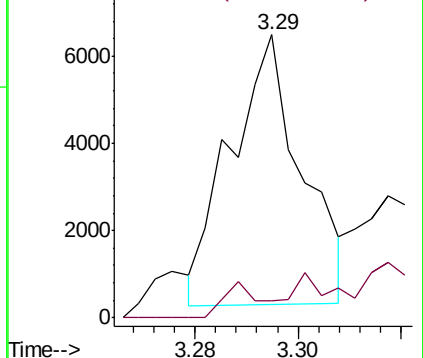
39 100

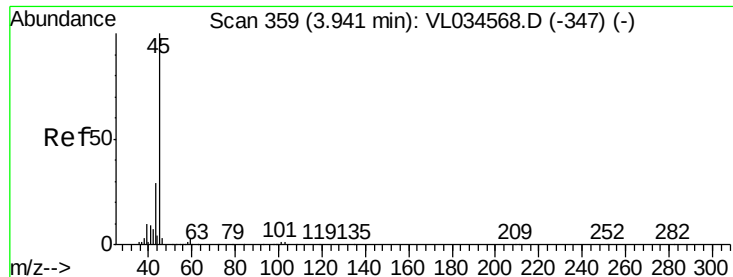
54 29.2 66.7 100.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 16.353 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

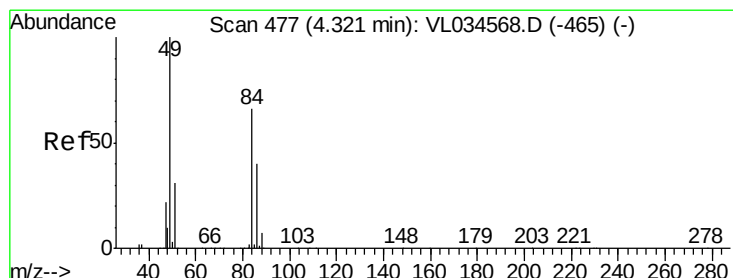
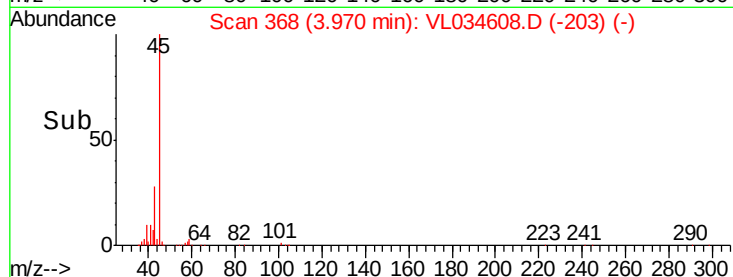
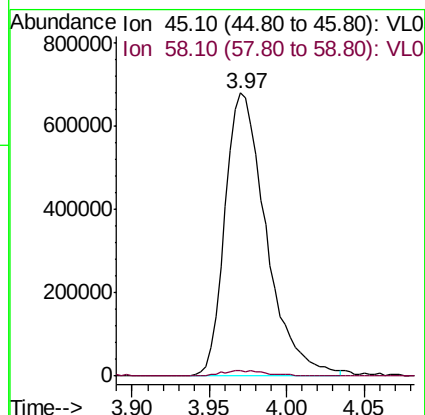
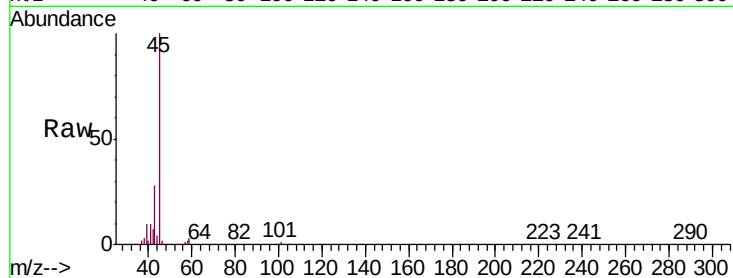
IA-4

Tgt Ion: 45 Resp: 1257949

Ion Ratio Lower Upper

45 100

58 2.6 1.7 2.5#



#20

Methylene Chloride

Concen: 0.924 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Tgt Ion: 84 Resp: 46380

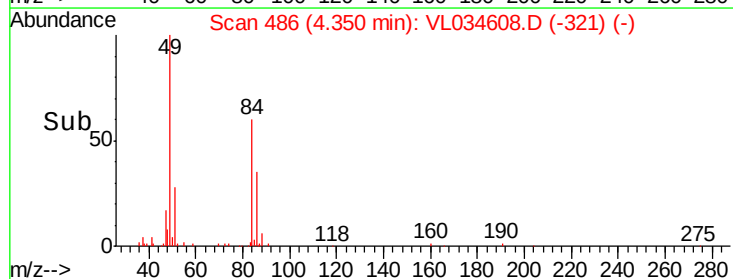
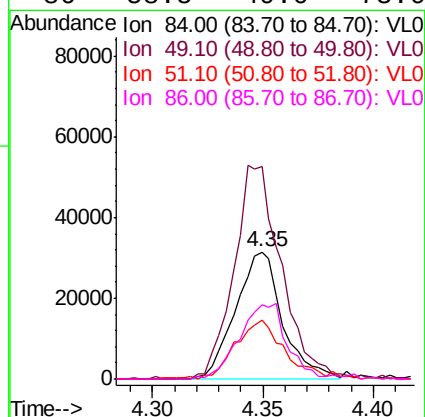
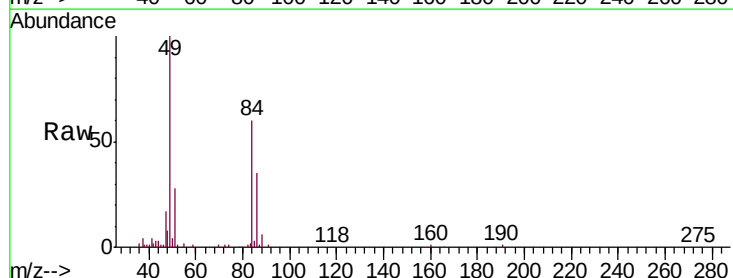
Ion Ratio Lower Upper

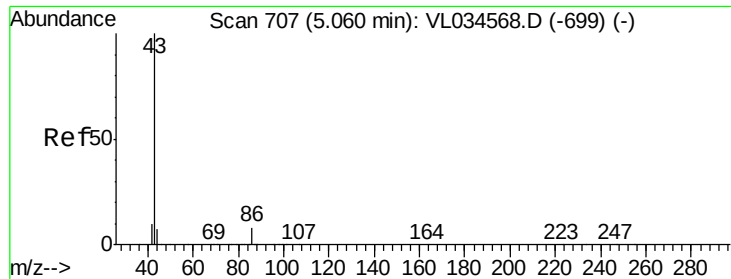
84 100

49 166.4 122.4 183.6

51 44.6 38.6 57.8

86 58.5 49.0 73.6





#23

Vinyl Acetate

Concen: 0.042 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tgt Ion: 43 Resp: 6256

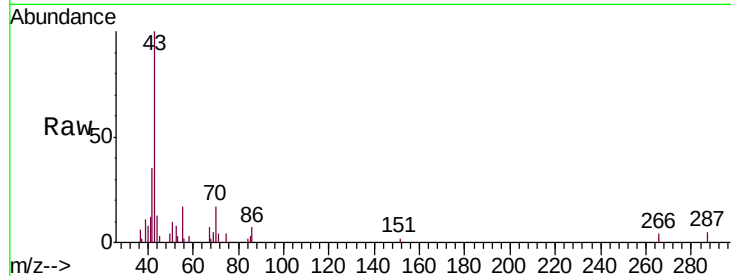
Ion Ratio Lower Upper

43 100

86 17.0 5.9 8.9#

42 54.5 8.8 13.2#

44 0.0 5.0 7.6#

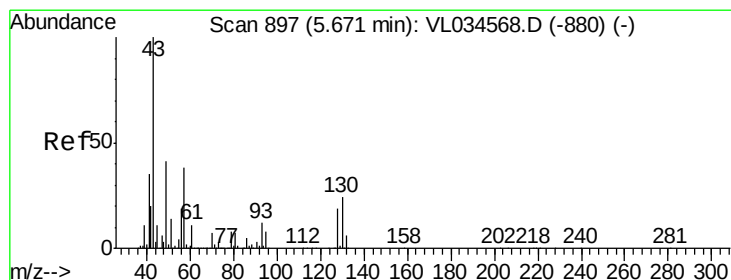
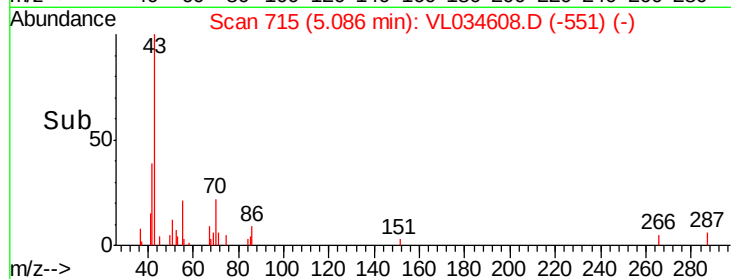
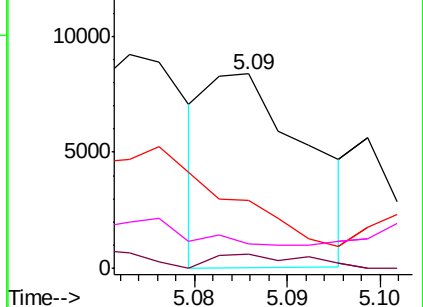


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.290 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Tgt Ion: 43 Resp: 61789

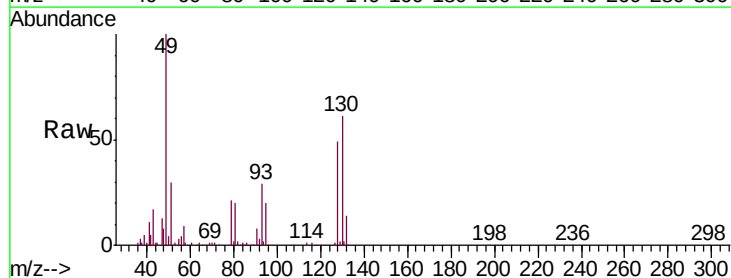
Ion Ratio Lower Upper

43 100

45 8.4 8.5 12.7#

61 5.9 7.8 11.6#

70 5.6 5.8 8.8#

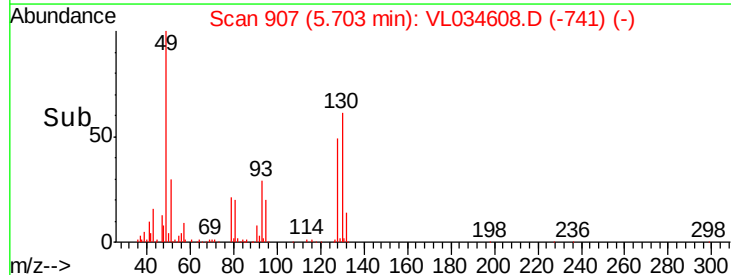
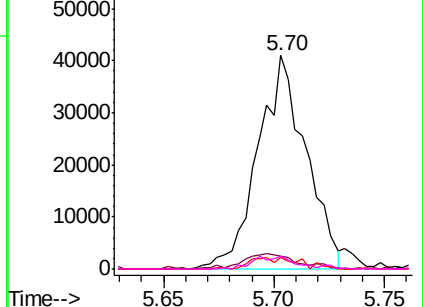


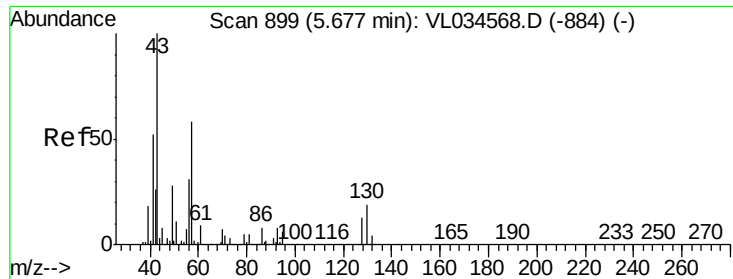
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

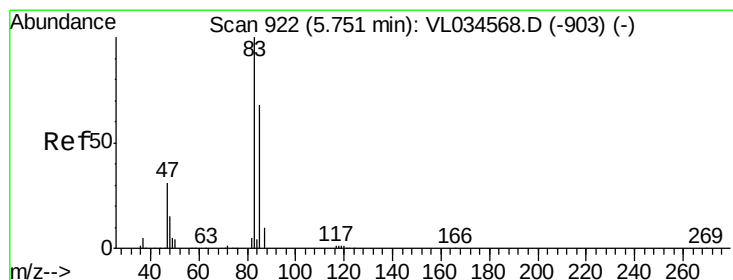
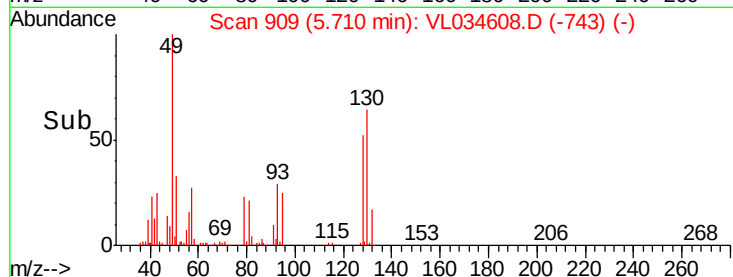
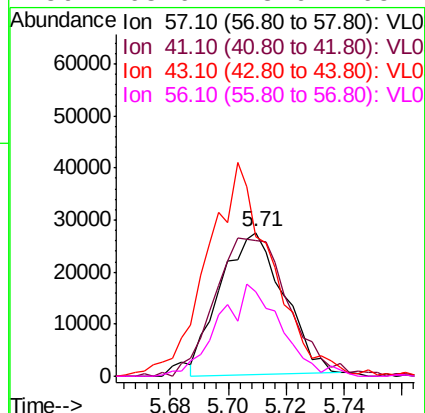
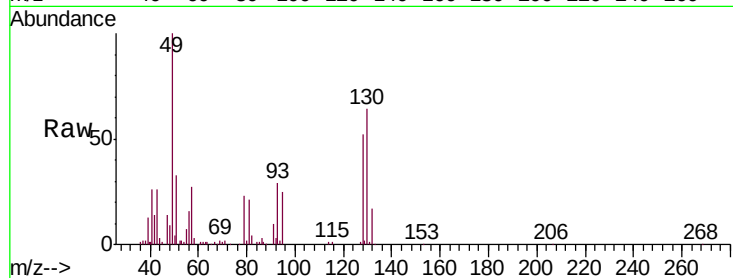




#26
Hexane
Concen: 0.464 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL034608.D
Acq: 6 Feb 2020 20:55

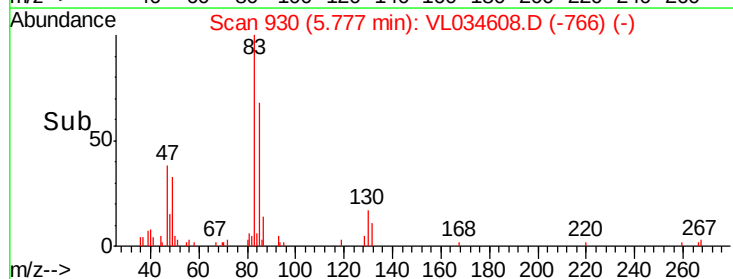
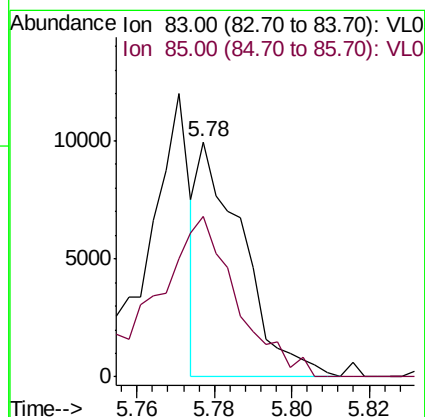
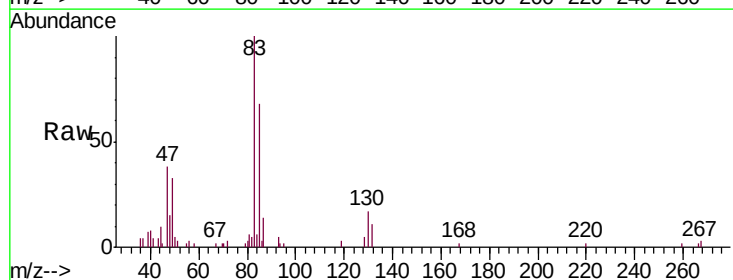
Instrument :
MSVOA_L
ClientSampleId :
IA-4

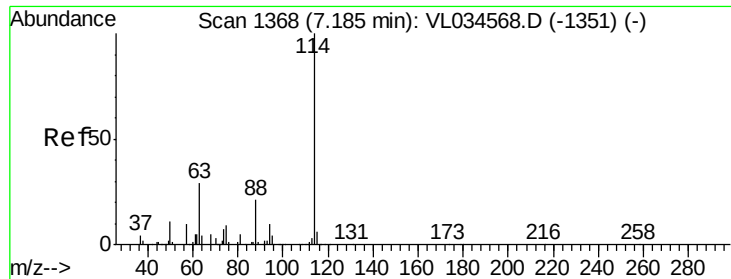
Tgt Ion: 57 Resp: 41437
Ion Ratio Lower Upper
57 100
41 115.7 76.2 114.2#
43 154.2 189.9 284.9#
56 63.6 43.6 65.4



#29
Chloroform
Concen: 0.050 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.03 min
Lab File: VL034608.D
Acq: 6 Feb 2020 20:55

Tgt Ion: 83 Resp: 7968
Ion Ratio Lower Upper
83 100
85 68.0 54.0 81.0

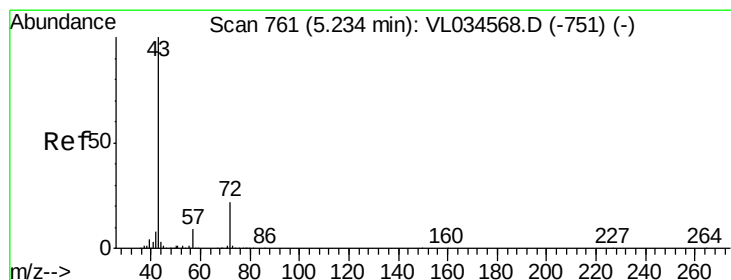
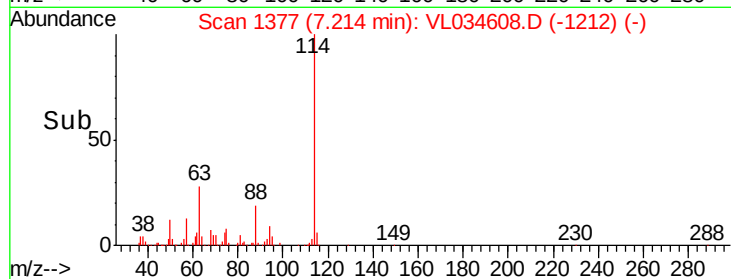
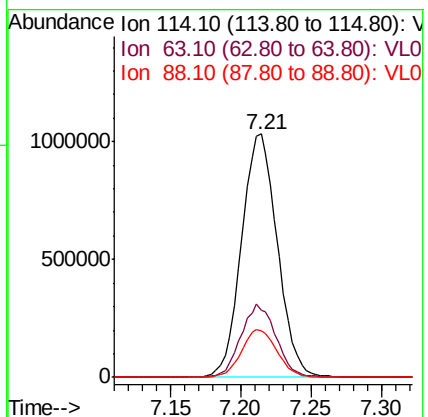
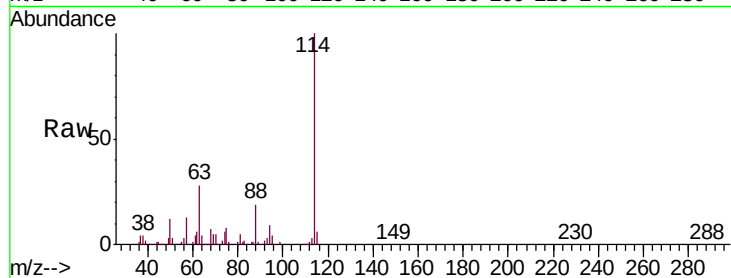




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. 0.03 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

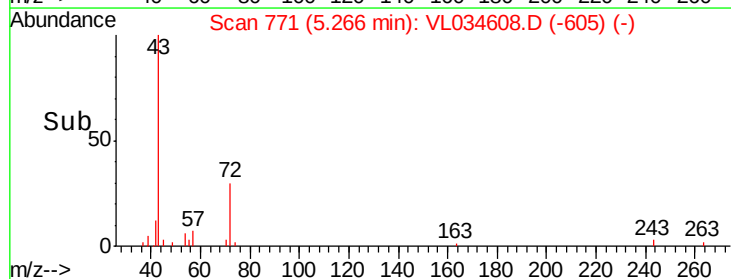
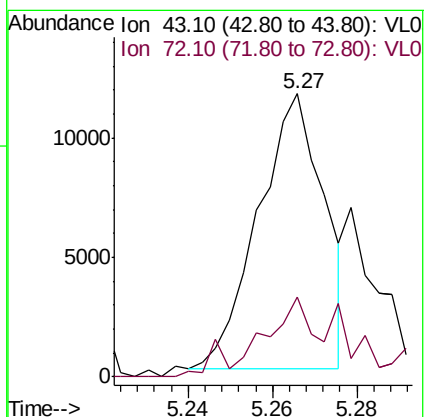
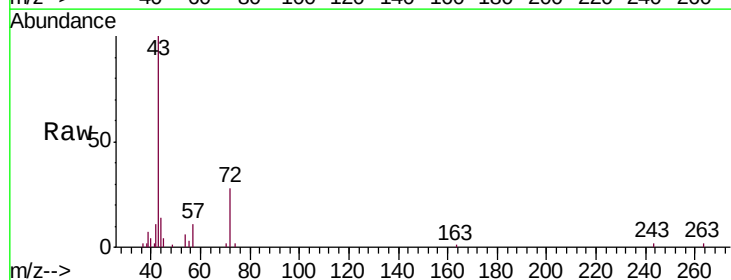
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

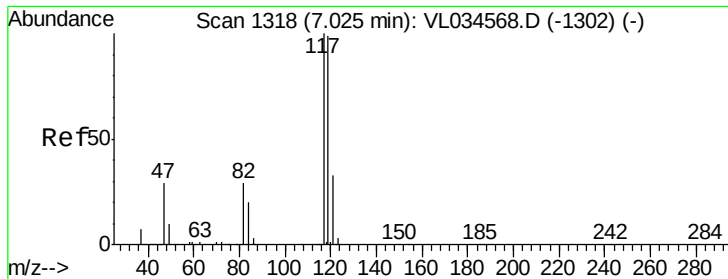
Tgt Ion:114 Resp: 1838077
 Ion Ratio Lower Upper
 114 100
 63 29.6 24.1 36.1
 88 19.6 15.9 23.9



#34
 2-Butanone
 Concen: 0.093 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.03 min
 Lab File: VL034608.D
 Acq: 6 Feb 2020 20:55

Tgt Ion: 43 Resp: 12426
 Ion Ratio Lower Upper
 43 100
 72 37.1 17.2 25.8#

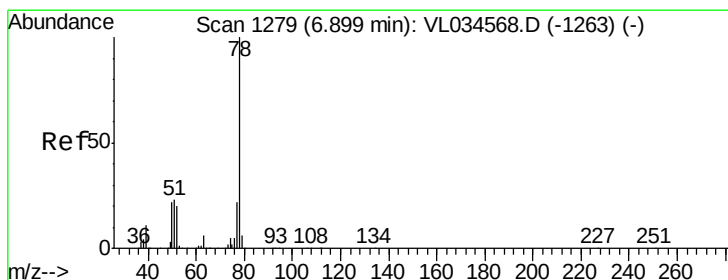
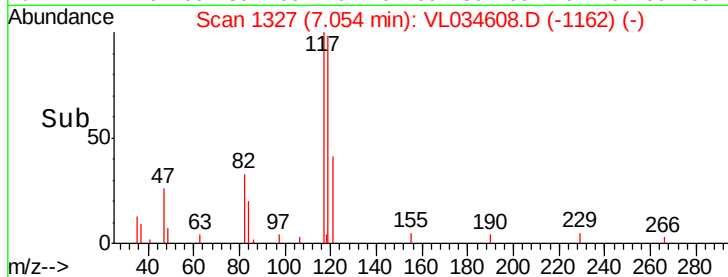
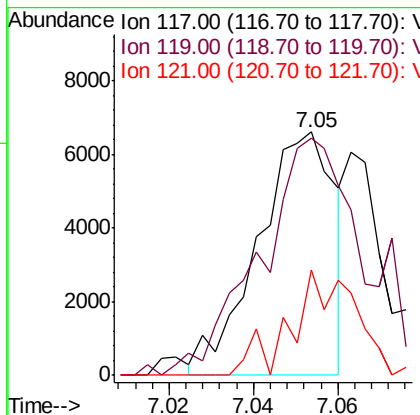
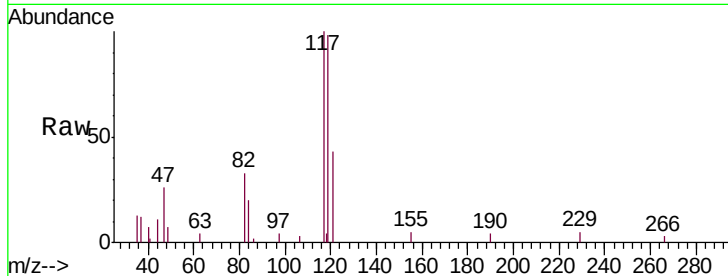




#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. 0.03 min
Lab File: VL034608.D
Acq: 6 Feb 2020 20:55

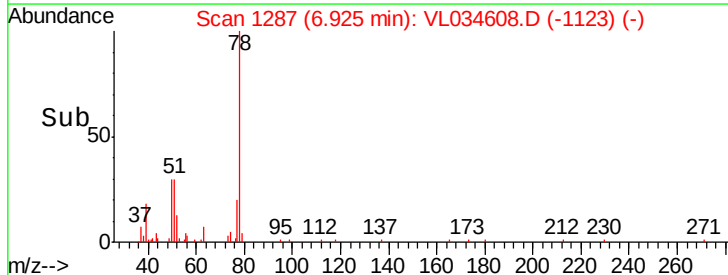
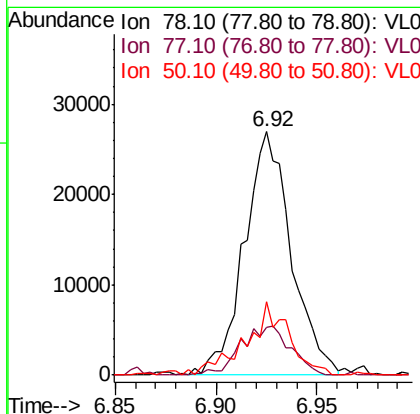
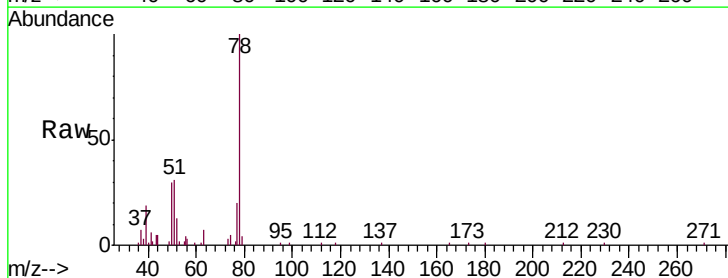
Instrument :
MSVOA_L
ClientSampled :
IA-4

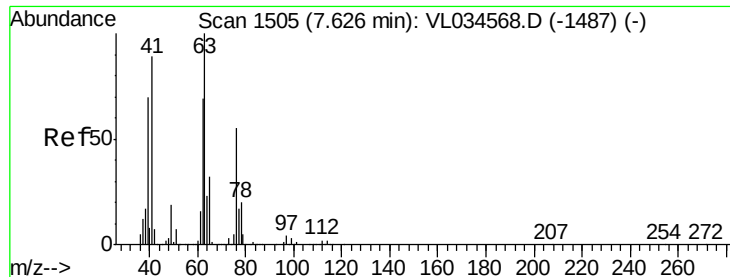
Tgt Ion: 117 Resp: 8302
Ion Ratio Lower Upper
117 100
119 92.4 79.5 119.3
121 45.2 26.2 39.2#



#36
Benzene
Concen: 0.268 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. 0.03 min
Lab File: VL034608.D
Acq: 6 Feb 2020 20:55

Tgt Ion: 78 Resp: 43841
Ion Ratio Lower Upper
78 100
77 19.5 17.3 25.9
50 30.1 17.4 26.2#





#39

1,2-Dichloropropane

Concen: 8.004 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.41 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

IA-4

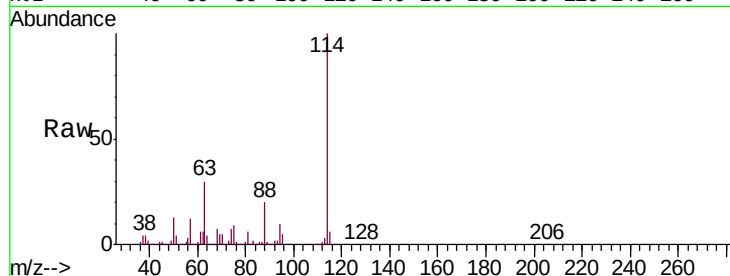
Tgt Ion: 63 Resp: 542382

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

62 19.9 55.4 83.0#

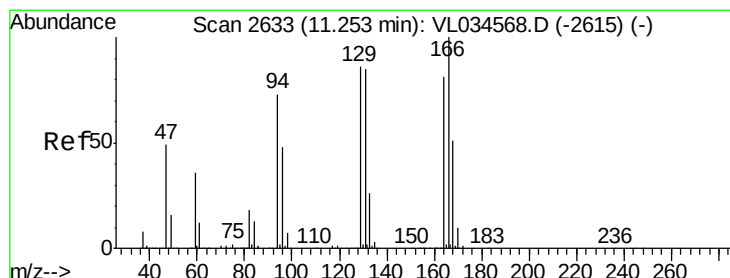
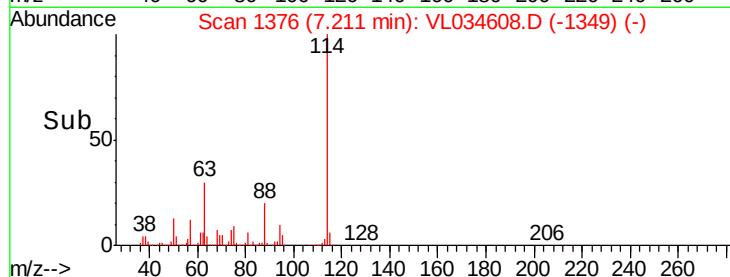
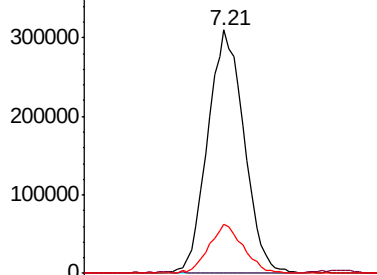


Abundance

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



#52

Tetrachloroethene

Concen: 1.630 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Tgt Ion: 164 Resp: 107022

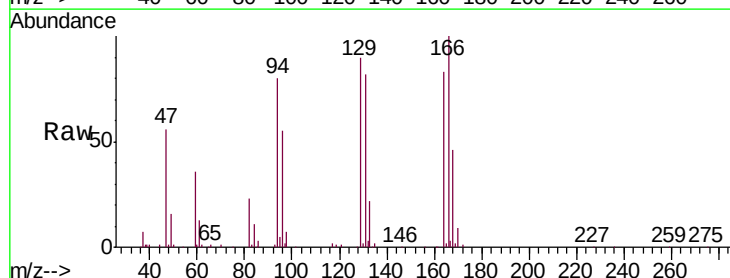
Ion Ratio Lower Upper

164 100

166 120.0 99.0 148.4

129 108.5 85.3 127.9

131 98.7 84.2 126.2



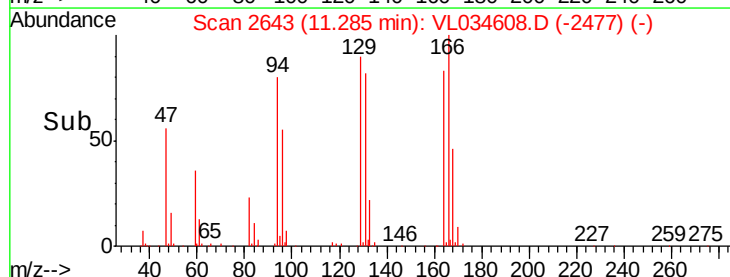
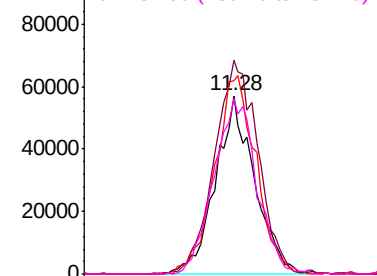
Abundance

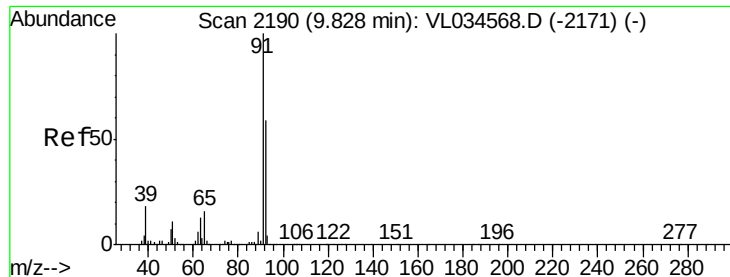
Ion 163.90 (163.60 to 164.60): V

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: 0.569 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.03 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

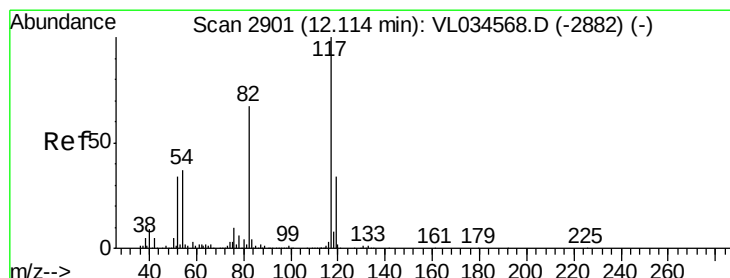
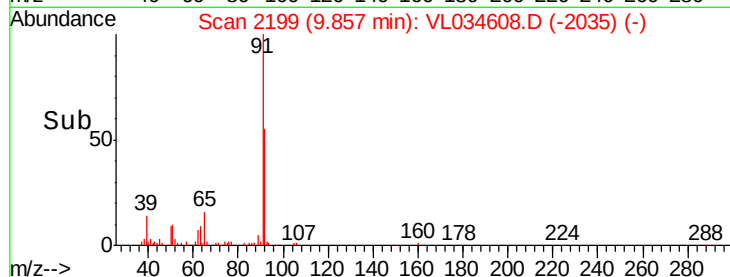
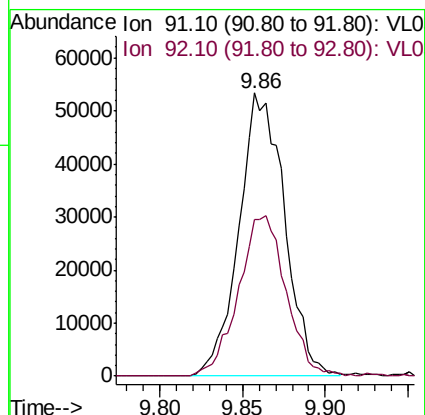
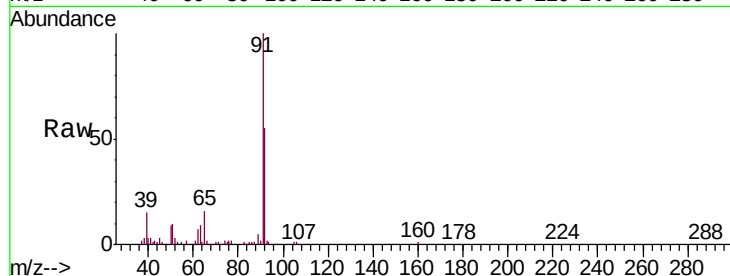
IA-4

Tgt Ion: 91 Resp: 102113

Ion Ratio Lower Upper

91 100

92 59.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.04 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

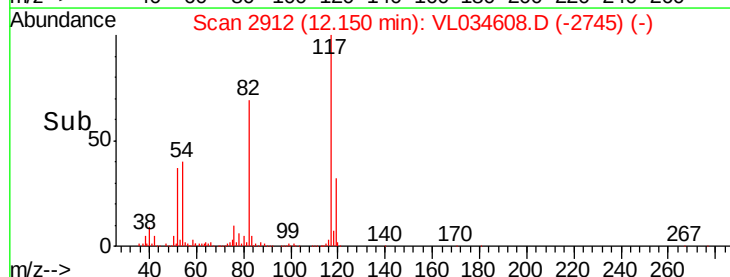
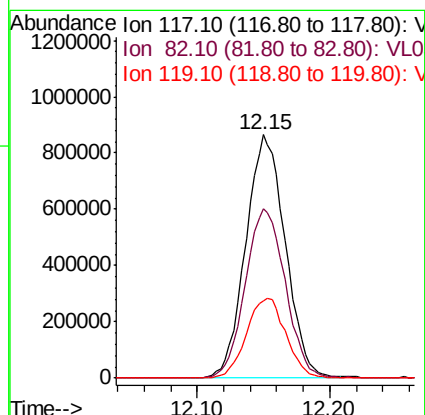
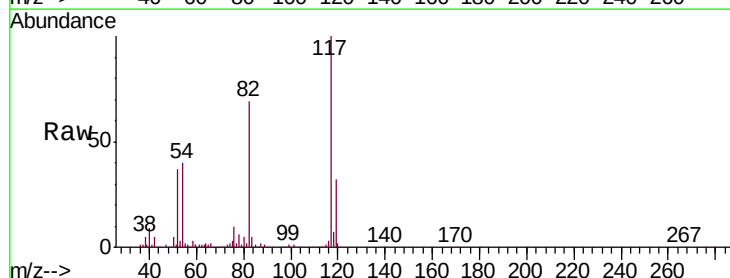
Tgt Ion: 117 Resp: 1788380

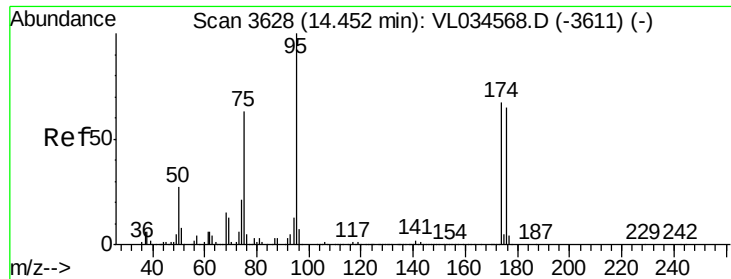
Ion Ratio Lower Upper

117 100

82 71.1 54.2 81.4

119 33.2 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.429 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. 0.04 min

Lab File: VL034608.D

Acq: 6 Feb 2020 20:55

Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tgt Ion: 95 Resp: 1576277

Ion Ratio Lower Upper

95 100

174 63.5 52.3 78.5

175 4.5 3.8 5.6

