

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032339.D
 Acq On : 2 Aug 2018 1:59
 Operator : SY/AP
 Sample : J4258-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 02 02:35:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1770725	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4526135	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4417518	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3486554	10.17	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

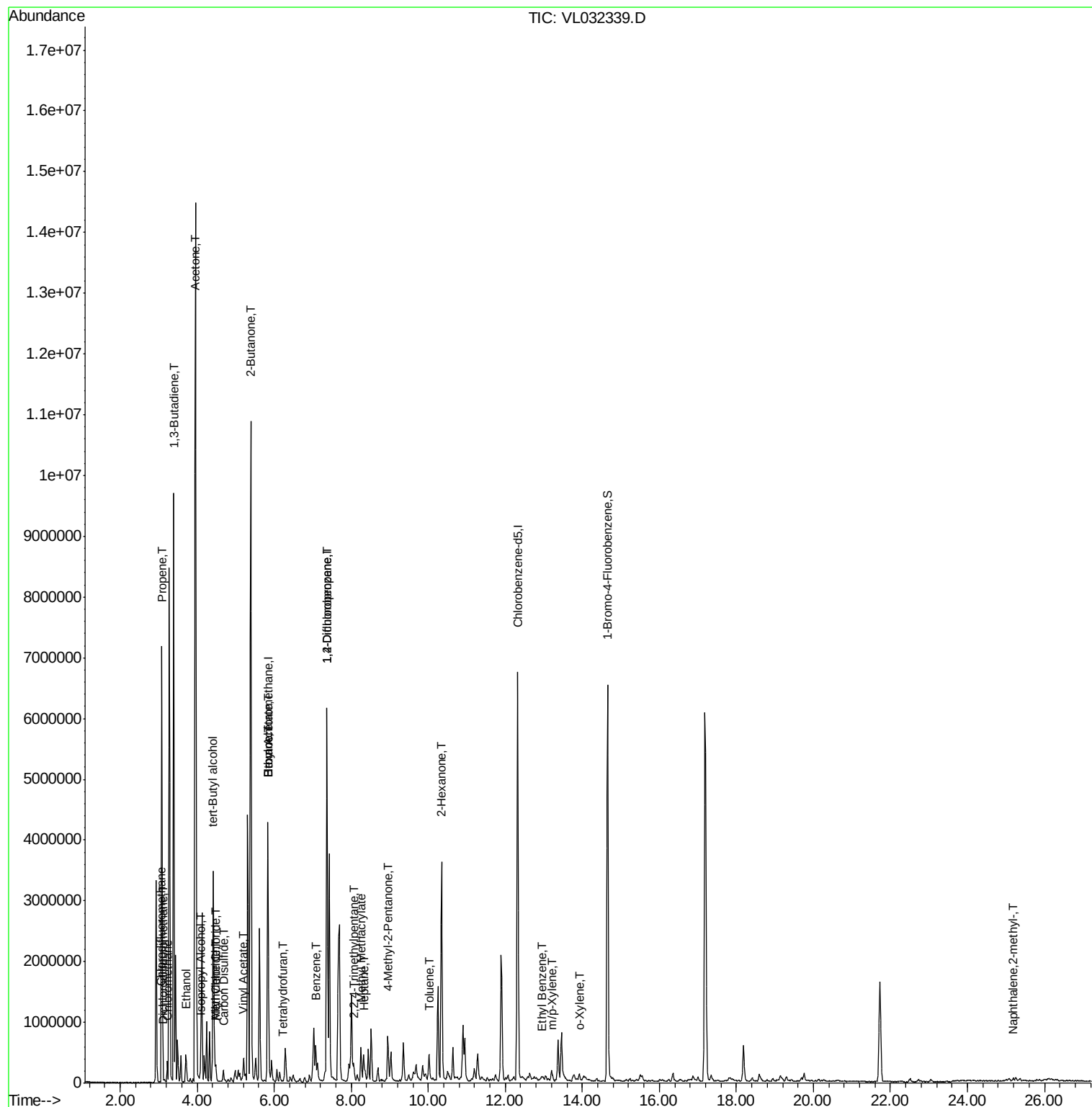
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	7280	0.034	ppbv	91
3) Chlorodifluoromethane	3.05	51	13791	0.078	ppbv #	87
4) Chloromethane	3.21	50	14636	0.137	ppbv	92
9) Propene	3.08	41	3228937	40.562	ppbv	94
10) Heptane	8.31	43	217286	0.778	ppbv	99
13) Ethanol	3.71	45	510861	22.330	ppbv	98
15) Acetone	3.95	43	17006978	101.906	ppbv #	72
16) 1,3-Butadiene	3.39	39	2581741	29.838	ppbv #	9
17) tert-Butyl alcohol	4.41	59	3562666	67.165	ppbv	98
19) Isopropyl Alcohol	4.09	45	204063	1.832	ppbv #	95
20) Methylene Chloride	4.47	84	24639	0.367	ppbv #	89
21) Allyl Chloride	4.48	41	39329	0.345	ppbv #	68
23) Vinyl Acetate	5.21	43	227466	0.760	ppbv #	73
25) Ethyl Acetate	5.85	43	210551	0.562	ppbv #	80
26) Hexane	5.84	57	210528	1.242	ppbv #	1
27) Carbon Disulfide	4.68	76	210457	1.366	ppbv	99
34) 2-Butanone	5.39	43	14058866	47.989	ppbv	92
36) Benzene	7.08	78	488329	1.224	ppbv	94
39) 1,2-Dichloropropane	7.37	63	1207212	6.014	ppbv #	26
41) Tetrahydrofuran	6.23	42	9869	0.060	ppbv #	59
43) Methyl Methacrylate	8.25	69	121307	0.633	ppbv #	59
44) 2,2,4-Trimethylpentane	8.07	57	114417	0.132	ppbv #	30
50) 4-Methyl-2-Pentanone	8.95	43	26099	0.050	ppbv #	33
51) 2-Hexanone	10.34	43	3291010	8.355	ppbv #	99
53) Toluene	10.03	91	90270	0.189	ppbv #	6
58) Ethyl Benzene	12.94	91	20666	0.037	ppbv	94
59) m/p-Xylene	13.23	91	21502	0.046	ppbv #	31
60) o-Xylene	13.93	91	33448	0.072	ppbv #	31
80) Naphthalene,2-methyl-	25.18	142	7402	0.040	ppbv #	83

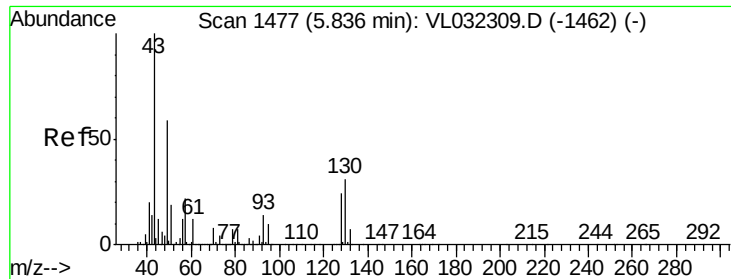
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
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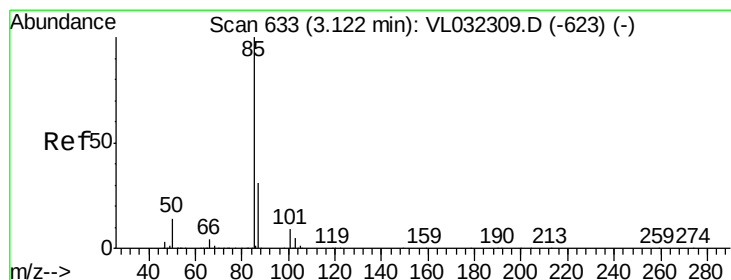
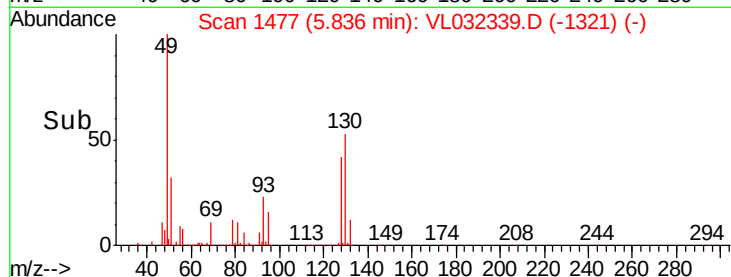
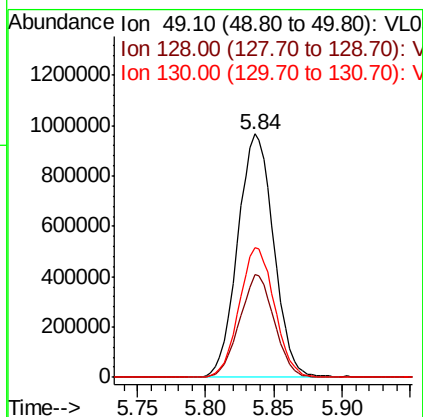
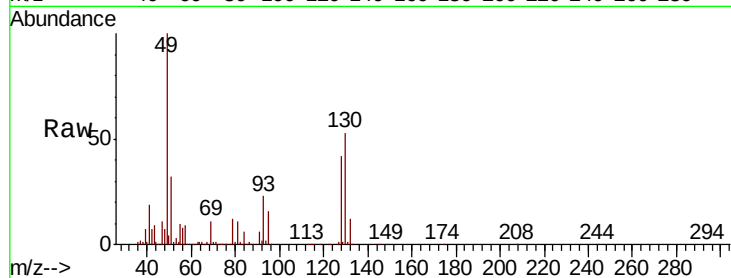




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL032339.D
 Acq: 2 Aug 2018 1:59

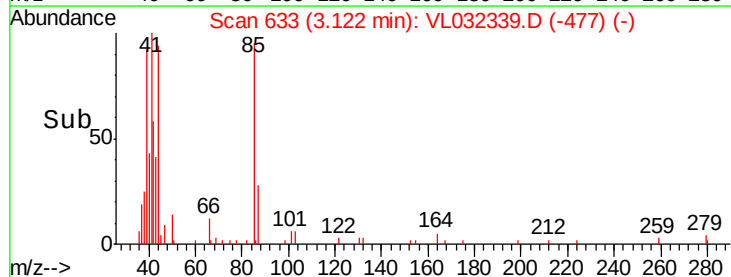
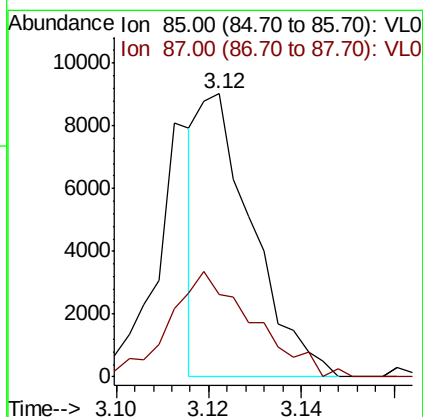
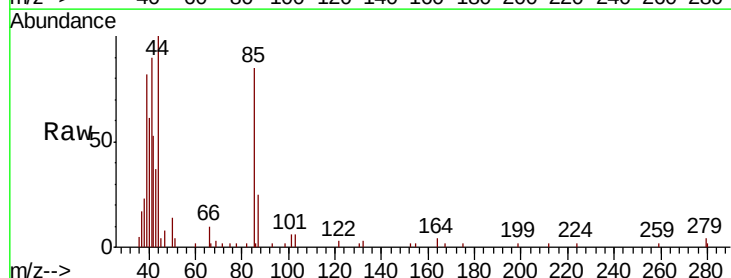
Instrument :
 MSVOA_L
 ClientSampleId :

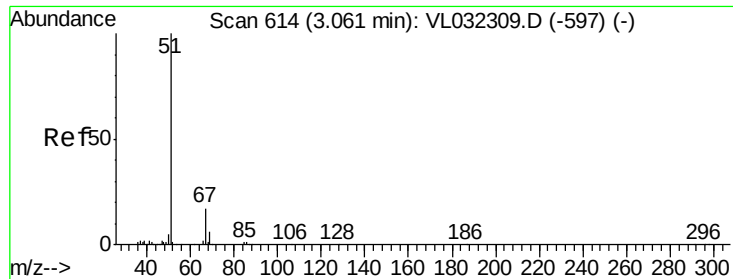
Tot Ion: 49 Resp: 1770725
 Ion Ratio Lower Upper
 49 100
 128 40.9 20.2 60.6
 130 52.6 25.8 77.3



#2
 Dichlorodifluoromethane
 Concen: 0.034 ppbv
 RT: 3.12 min Scan# 633
 Delta R.T. -0.00 min
 Lab File: VL032339.D
 Acq: 2 Aug 2018 1:59

Tgt Ion: 85 Resp: 7280
 Ion Ratio Lower Upper
 85 100
 87 26.5 25.2 37.8

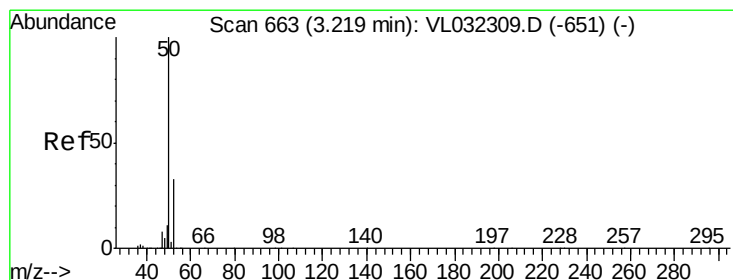
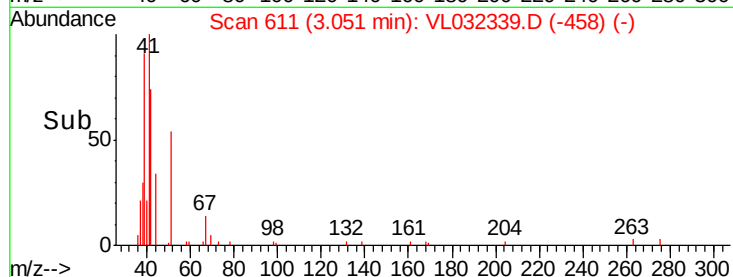
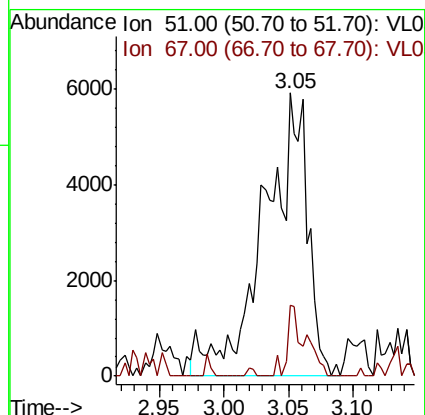
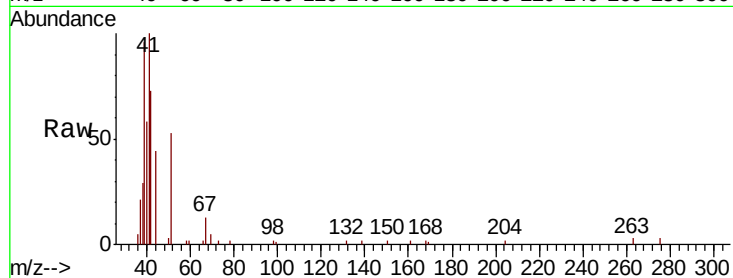




#3
Chlorodifluoromethane
Concen: 0.078 ppbv
RT: 3.05 min Scan# 611
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

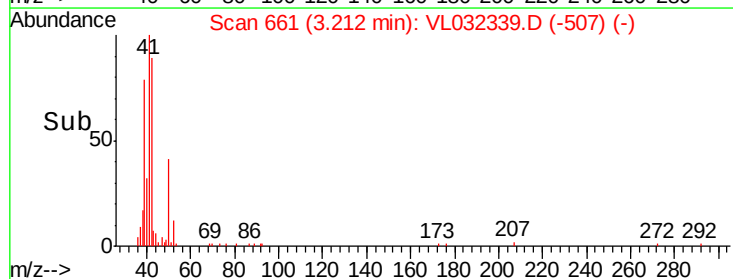
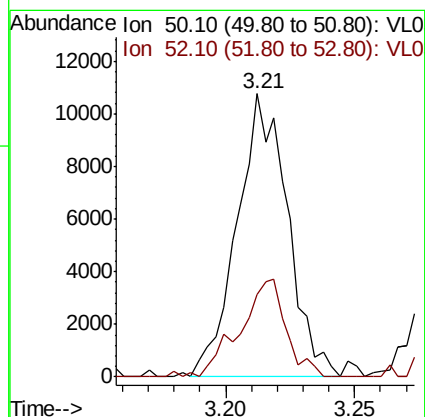
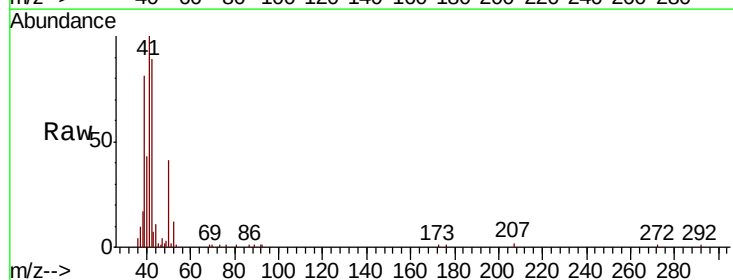
Instrument :
MSVOA_L
ClientSampleId :

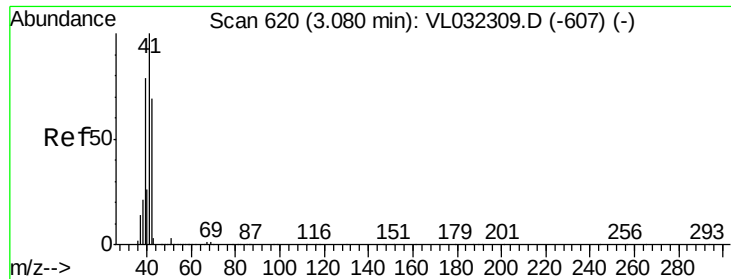
Tot Ion: 51 Resp: 13791
Ion Ratio Lower Upper
51 100
67 11.1 13.5 20.3#



#4
Chloromethane
Concen: 0.137 ppbv
RT: 3.21 min Scan# 661
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 50 Resp: 14636
Ion Ratio Lower Upper
50 100
52 28.2 26.2 39.4





#9

Propene

Concen: 40.562 ppbv

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

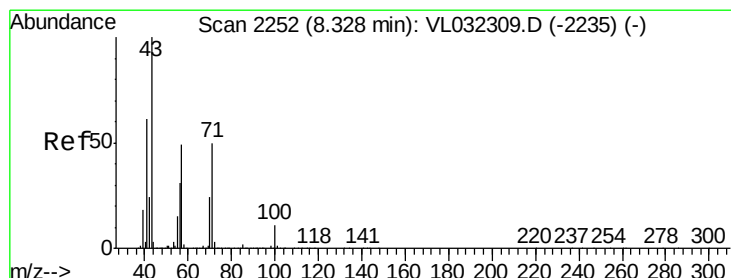
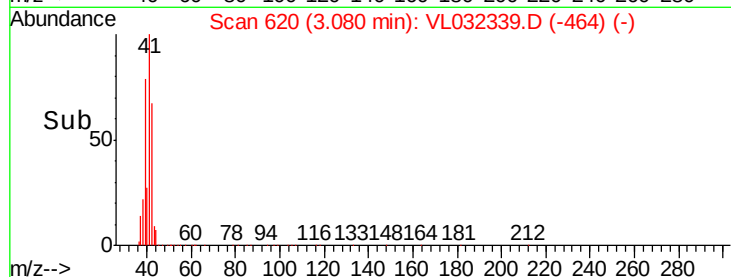
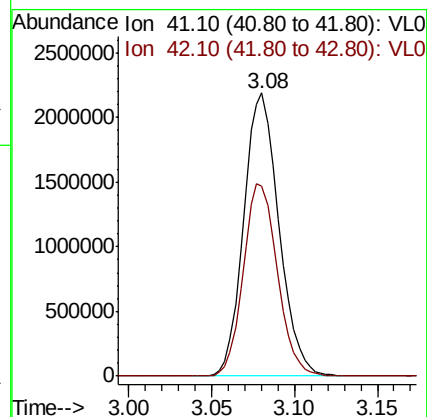
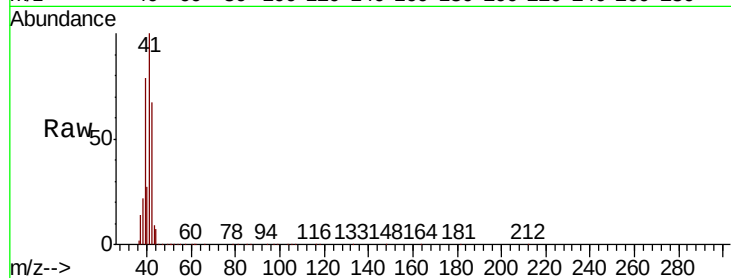
ClientSampleId :

Tot Ion: 41 Resp: 3228937

Ion Ratio Lower Upper

41 100

42 66.1 56.8 85.2



#10

Heptane

Concen: 0.778 ppbv

RT: 8.31 min Scan# 2248

Delta R.T. -0.01 min

Lab File: VL032339.D

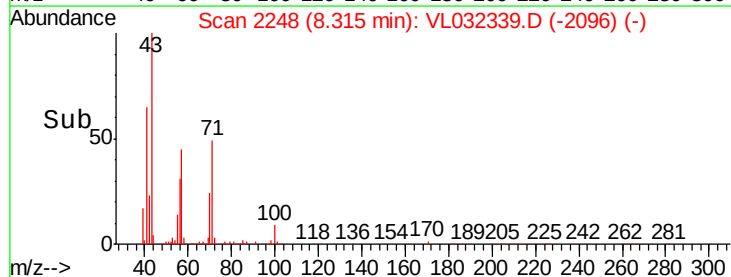
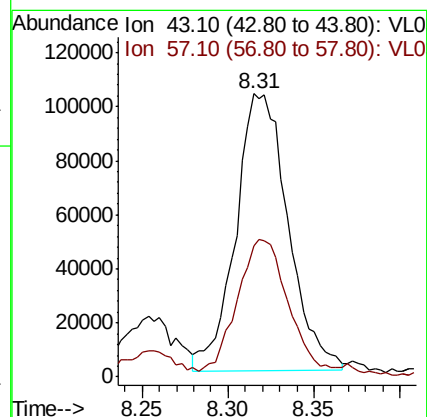
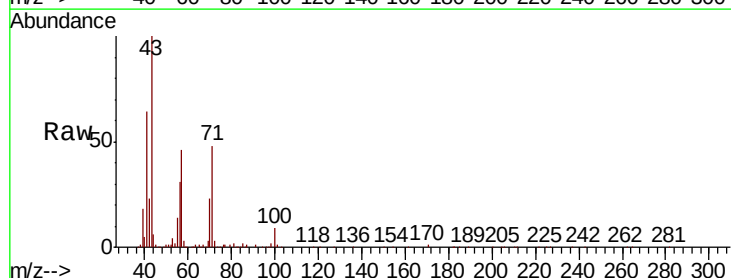
Acq: 2 Aug 2018 1:59

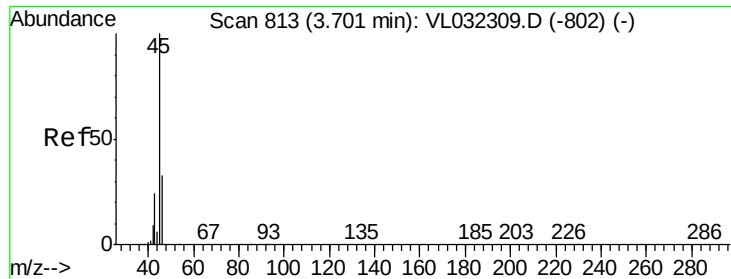
Tgt Ion: 43 Resp: 217286

Ion Ratio Lower Upper

43 100

57 49.6 39.0 58.4

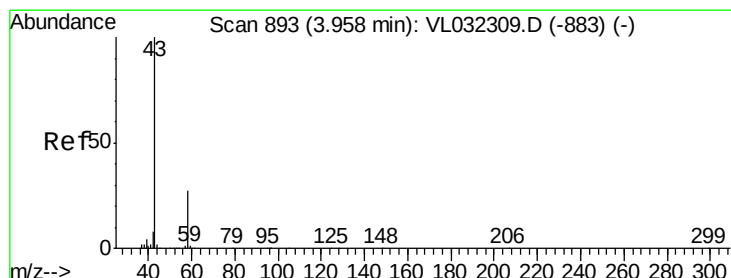
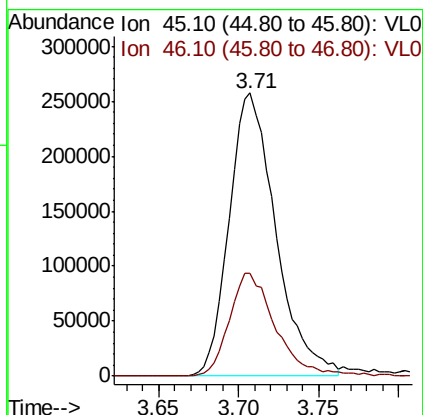
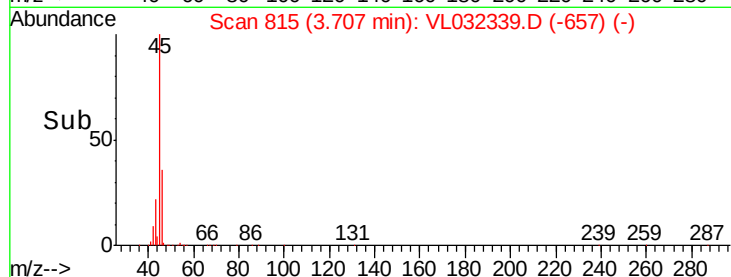
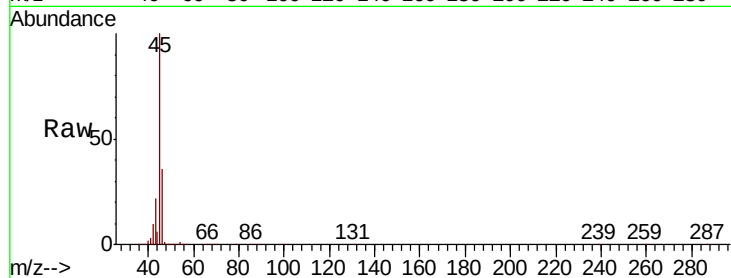




#13
Ethanol
Concen: 22.330 ppbv
RT: 3.71 min Scan# 815
Delta R.T. 0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

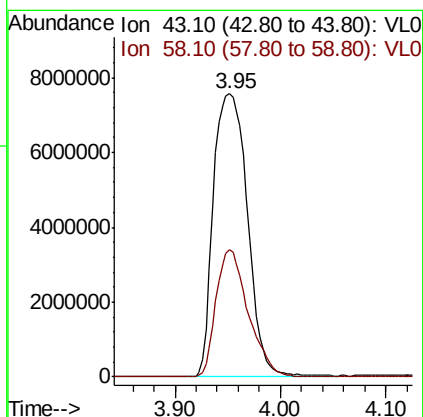
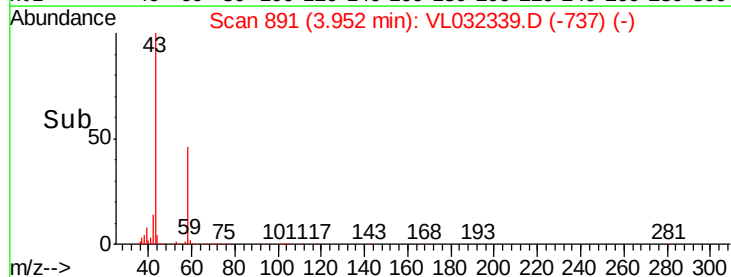
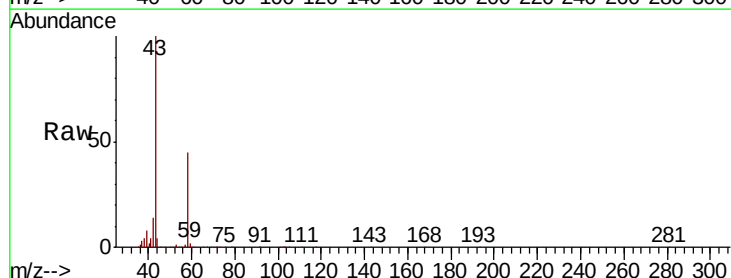
Instrument :
MSVOA_L
ClientSampled :

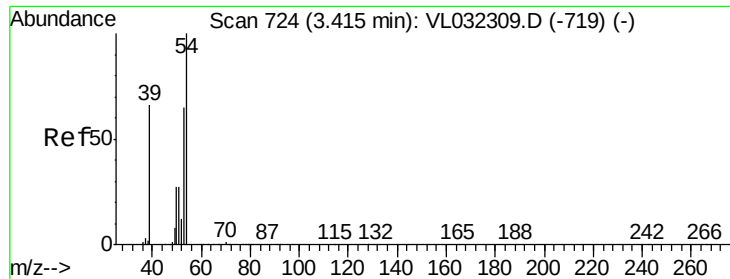
Tot Ion: 45 Resp: 510861
Ion Ratio Lower Upper
45 100
46 36.5 15.2 60.6



#15
Acetone
Concen: 101.906 ppbv
RT: 3.95 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 43 Resp: 17006978
Ion Ratio Lower Upper
43 100
58 42.6 22.5 33.7#

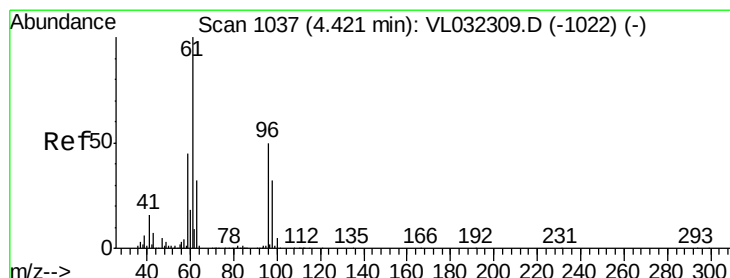
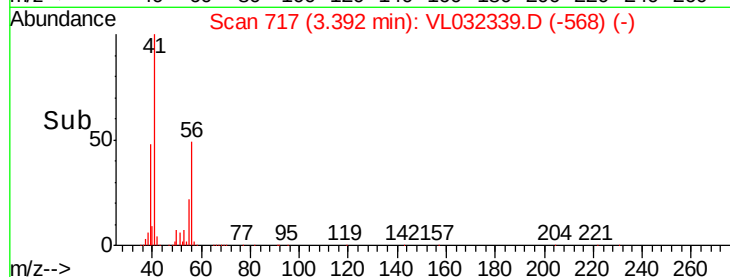
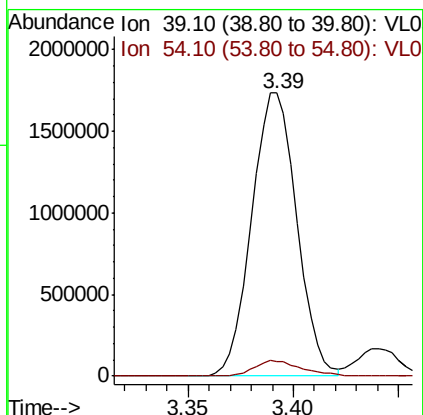
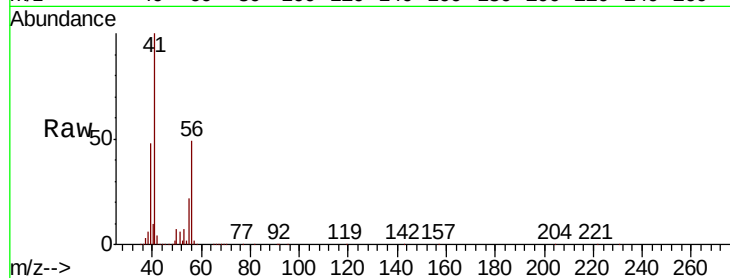




#16
1,3-Butadiene
Concen: 29.838 ppbv
RT: 3.39 min Scan# 717
Delta R.T. -0.02 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

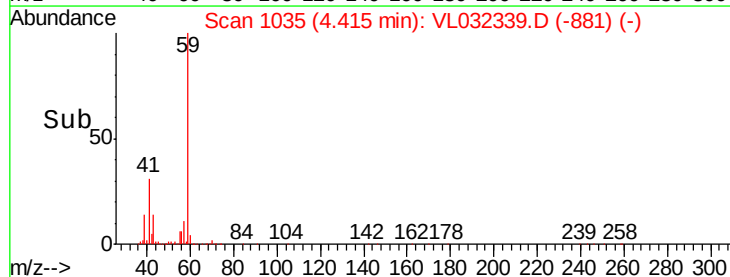
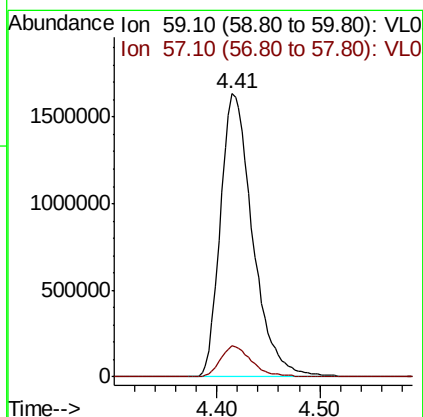
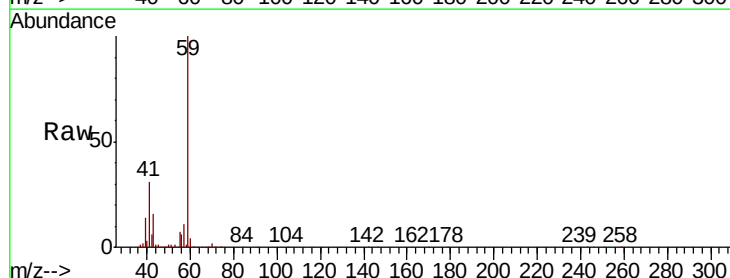
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MSVOA_L
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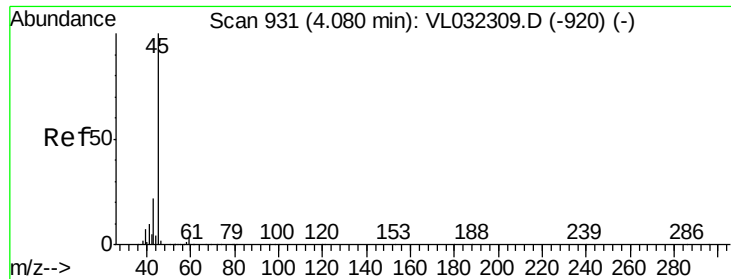
Tot Ion: 39 Resp: 2581741
Ion Ratio Lower Upper
39 100
54 6.1 74.3 111.5#



#17
tert-Butyl alcohol
Concen: 67.165 ppbv
RT: 4.41 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 59 Resp: 3562666
Ion Ratio Lower Upper
59 100
57 10.8 8.0 12.0





#19

Isopropyl Alcohol

Concen: 1.832 ppbv

RT: 4.09 min Scan# 933

Delta R.T. 0.01 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

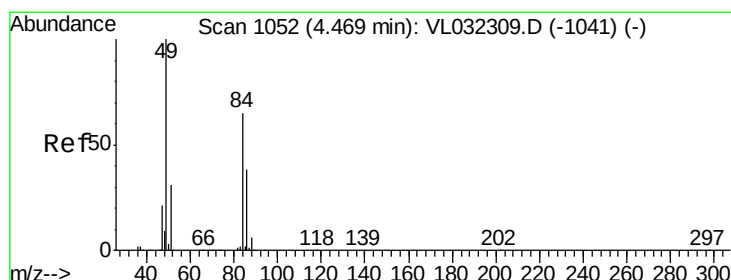
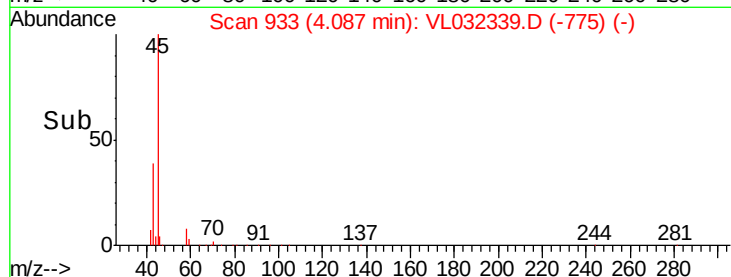
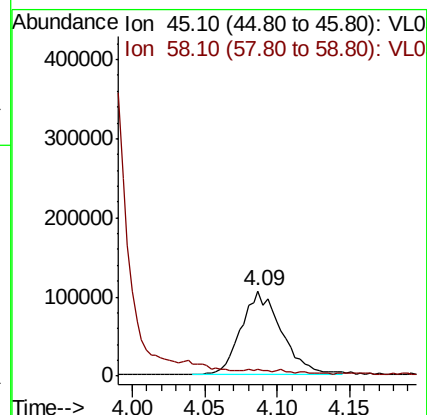
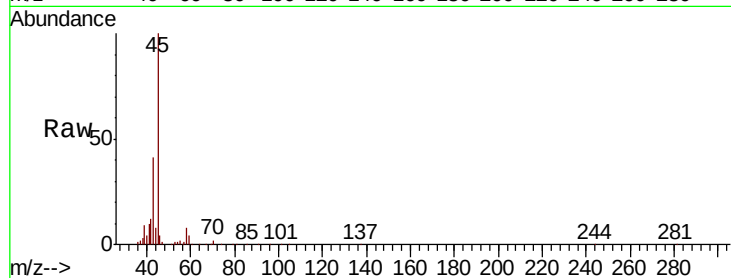
ClientSampleId :

Tot Ion: 45 Resp: 204063

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 0.367 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Tgt Ion: 84 Resp: 24639

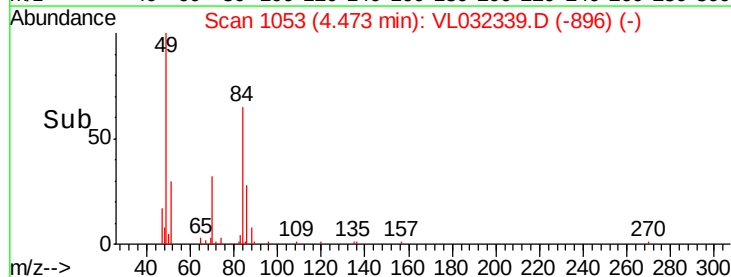
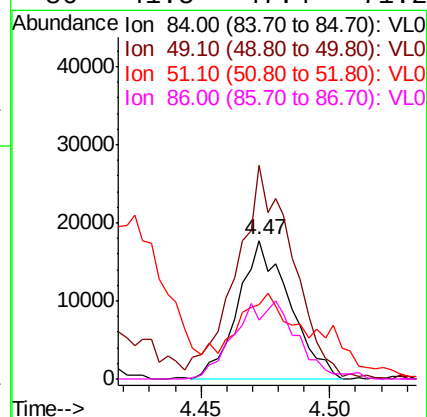
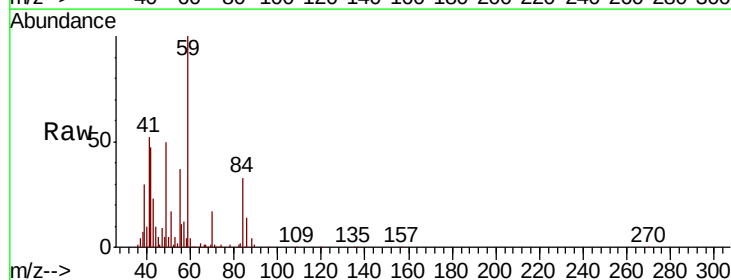
Ion Ratio Lower Upper

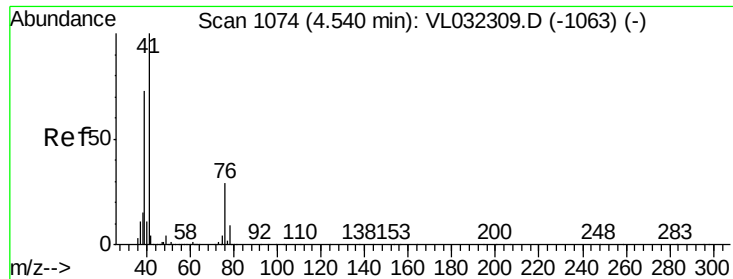
84 100

49 152.2 123.4 185.0

51 30.8 38.2 57.2#

86 41.5 47.4 71.2#

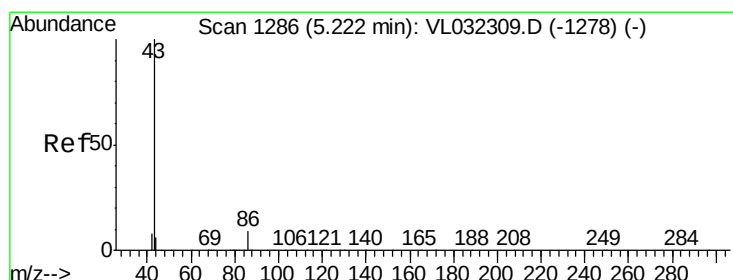
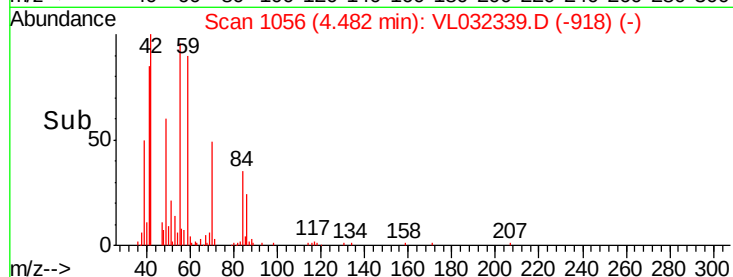
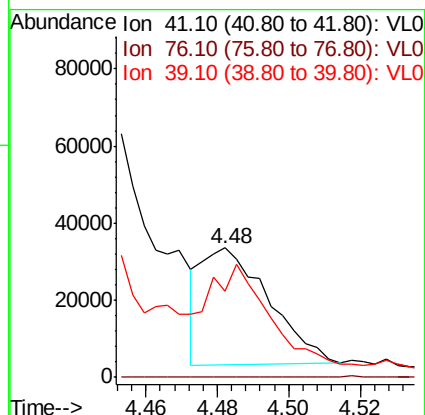
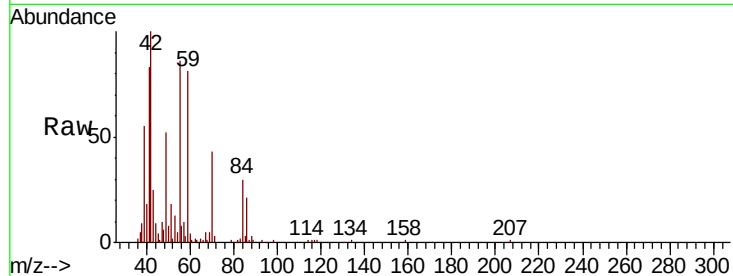




#21
Allvl Chloride
Concen: 0.345 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.06 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

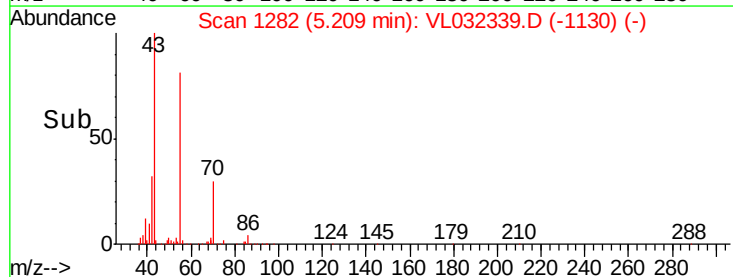
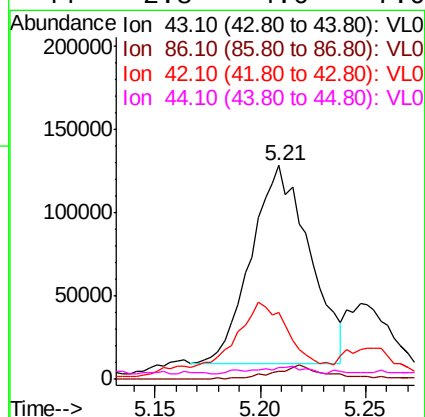
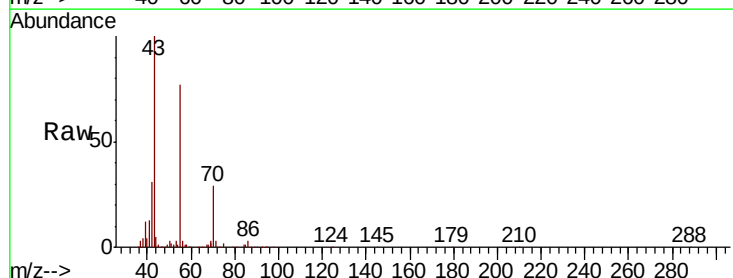
Instrument :
MSVOA_L
ClientSampleId :

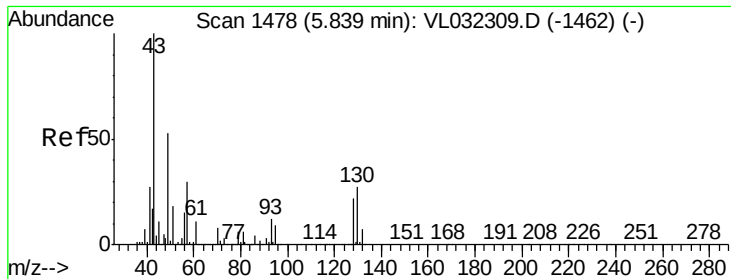
Tot Ion: 41 Resp: 39329
Ion Ratio Lower Upper
41 100
76 0.0 23.1 34.7#
39 92.2 58.2 87.2#



#23
Vinyl Acetate
Concen: 0.760 ppbv
RT: 5.21 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 43 Resp: 227466
Ion Ratio Lower Upper
43 100
86 3.8 6.3 9.5#
42 27.4 7.0 10.4#
44 2.8 4.6 7.0#

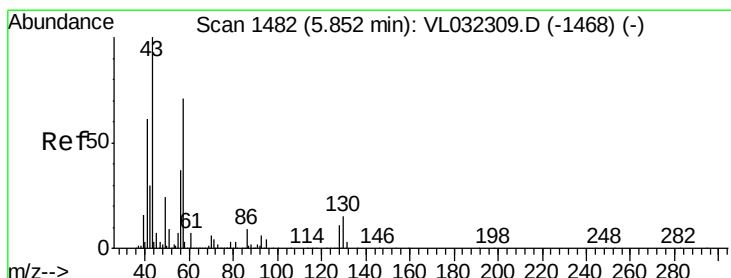
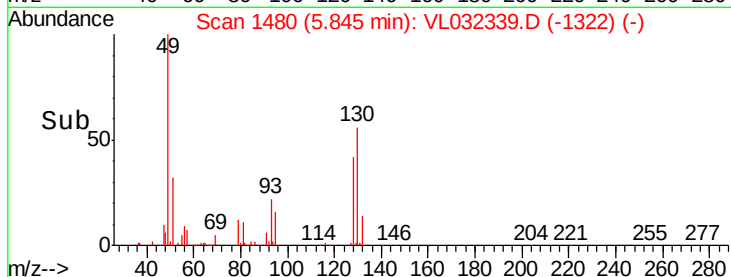
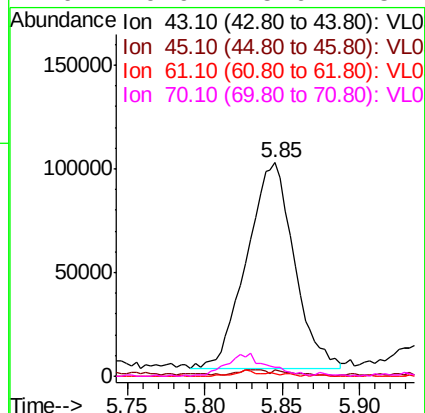
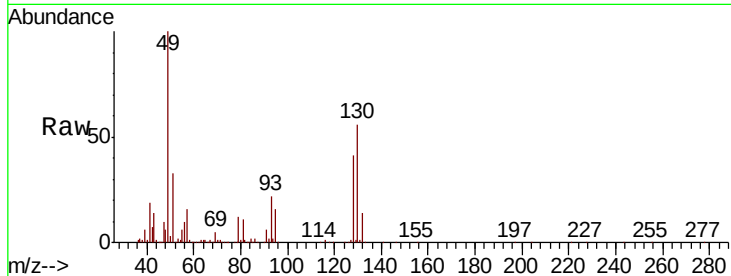




#25
Ethyl Acetate
Concen: 0.562 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. 0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

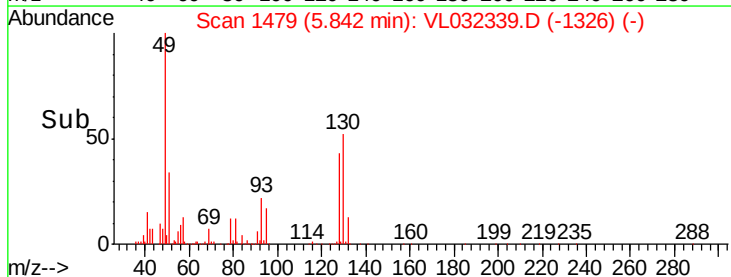
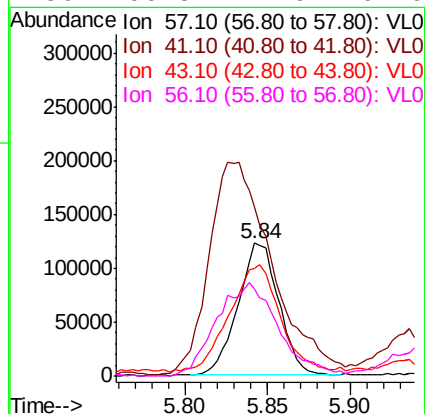
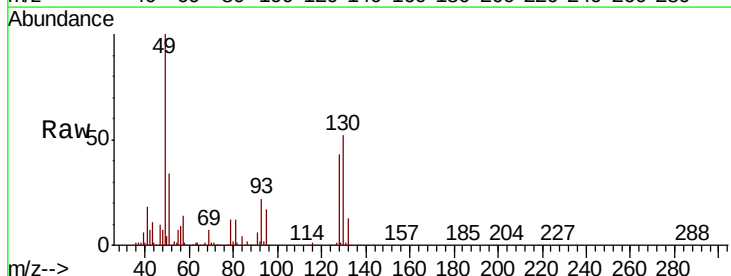
Instrument :
MSVOA_L
ClientSampleId :

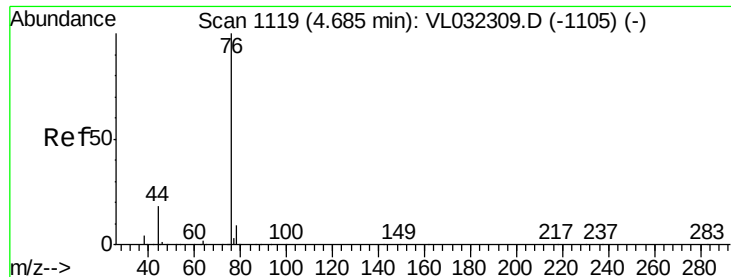
Tot Ion:	43	Resp:	210551
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	2.0	7.4	11.0#
70	9.9	5.6	8.4#



#26
Hexane
Concen: 1.242 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion:	57	Resp:	210528
Ion	Ratio	Lower	Upper
57	100		
41	249.5	68.1	102.1#
43	0.0	177.4	266.2#
56	106.8	41.9	62.9#





#27

Carbon Disulfide

Concen: 1.366 ppbv

RT: 4.68 min Scan# 1116

Delta R.T. -0.01 min

Lab File: VL032339.D

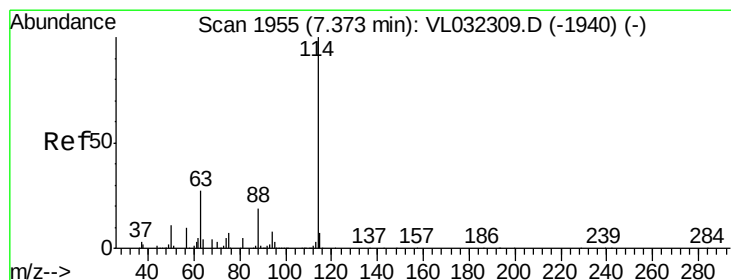
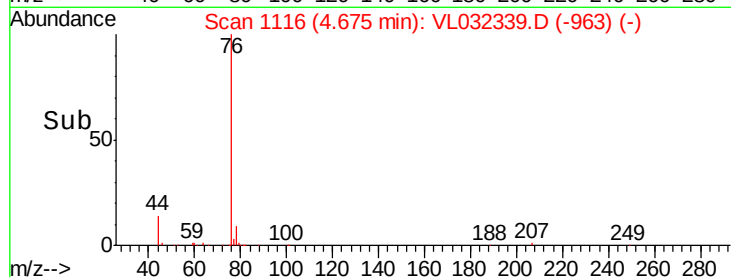
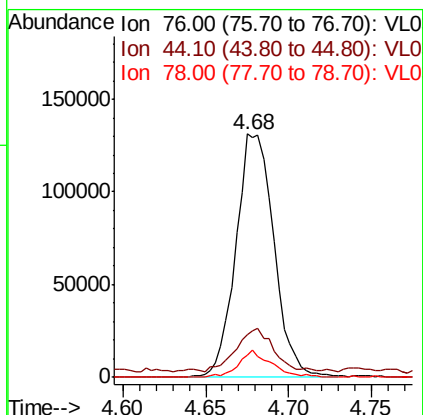
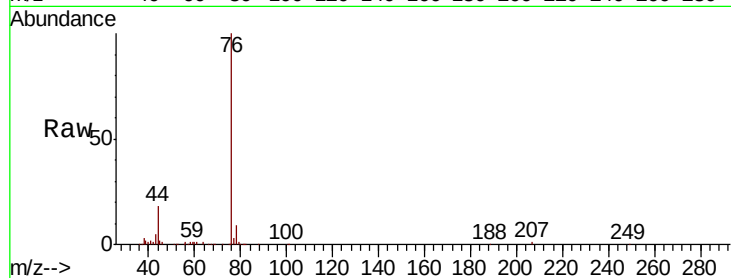
Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	76	Resp:	210457
Ion	Ratio	Lower	Upper
76	100		
44	18.3	14.0	21.0
78	9.7	7.5	11.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

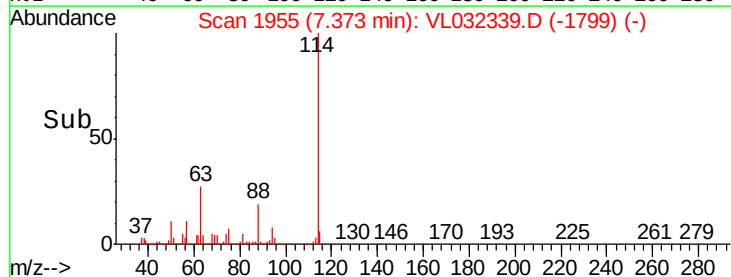
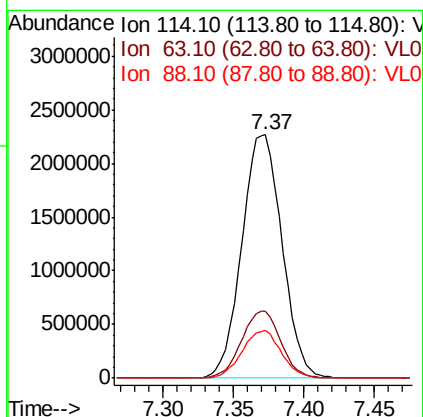
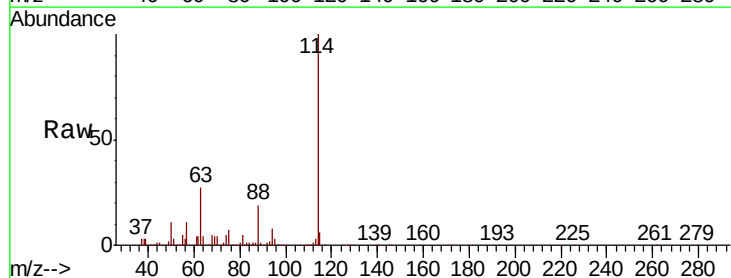
RT: 7.37 min Scan# 1955

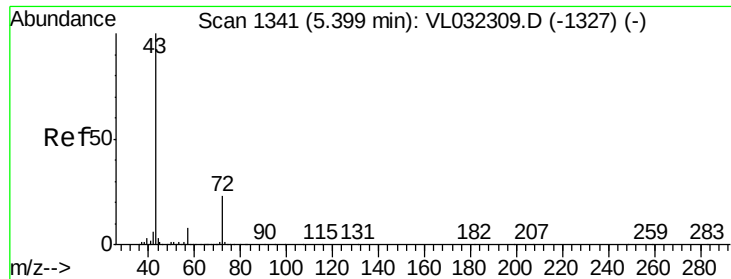
Delta R.T. -0.00 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Tgt Ion:	114	Resp:	4526135
Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.4	33.6
88	19.3	15.3	22.9

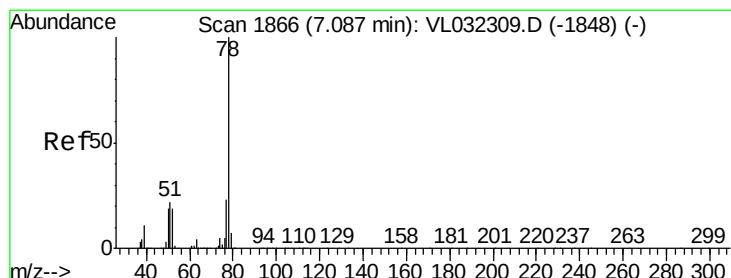
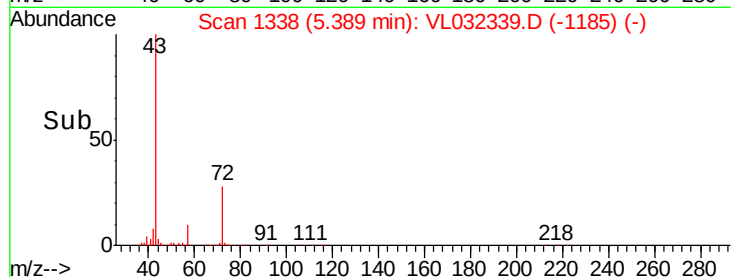
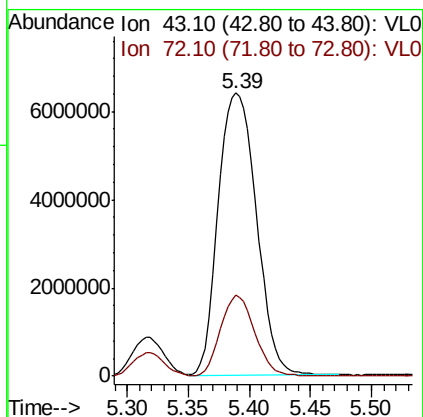
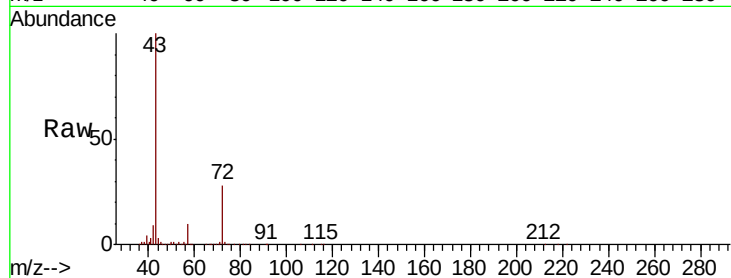




#34
2-Butanone
Concen: 47.989 ppbv
RT: 5.39 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

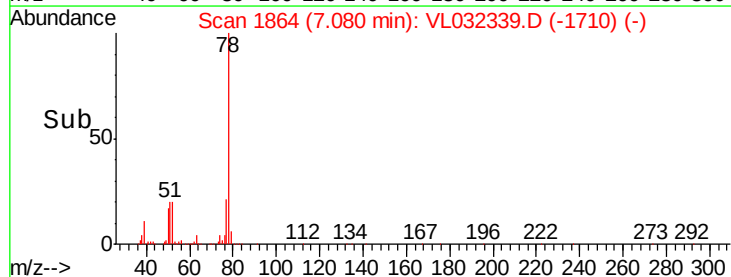
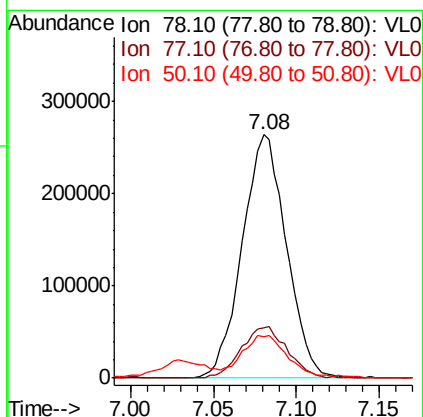
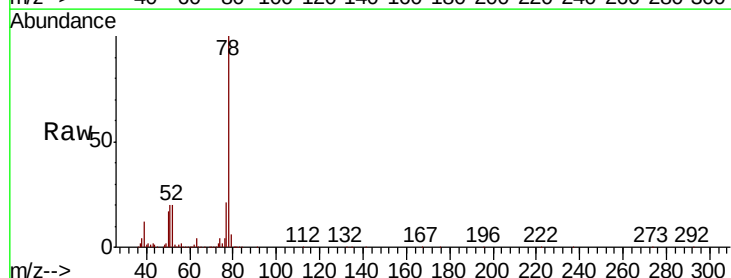
Instrument :
MSVOA_L
ClientSampleId :

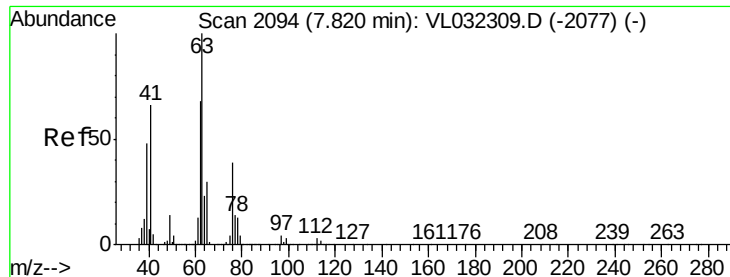
Tot Ion: 43 Resp:14058866
Ion Ratio Lower Upper
43 100
72 25.8 17.4 26.2



#36
Benzene
Concen: 1.224 ppbv
RT: 7.08 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 78 Resp: 488329
Ion Ratio Lower Upper
78 100
77 20.5 18.4 27.6
50 16.0 15.3 22.9





#39

1,2-Dichloropropane

Concen: 6.014 ppbv

RT: 7.37 min Scan# 1955

Delta R.T. -0.45 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

ClientSampleId :

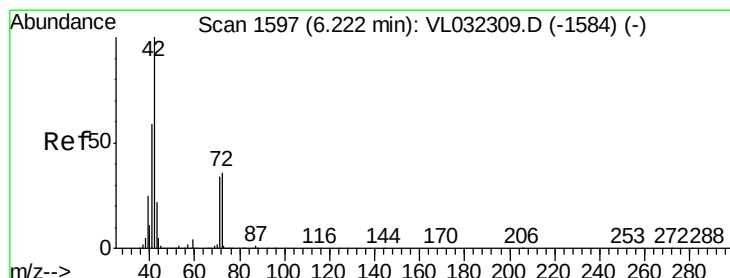
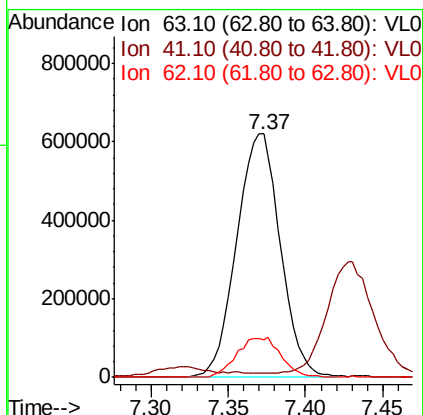
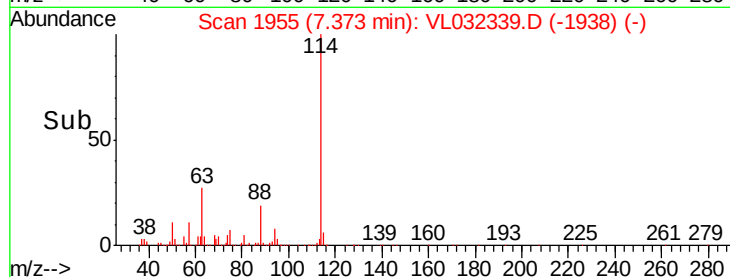
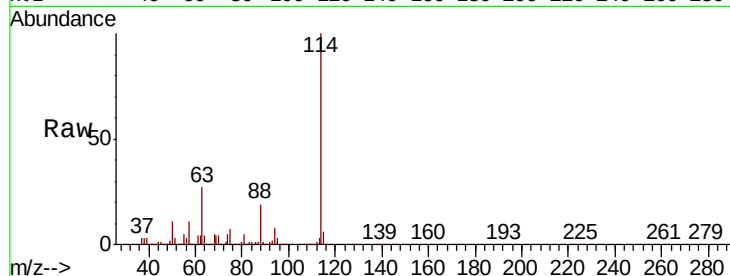
Tot Ion: 63 Resp: 1207212

Ion Ratio Lower Upper

63 100

41 0.0 52.5 78.7#

62 15.3 54.6 81.8#



#41

Tetrahydrofuran

Concen: 0.060 ppbv

RT: 6.23 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

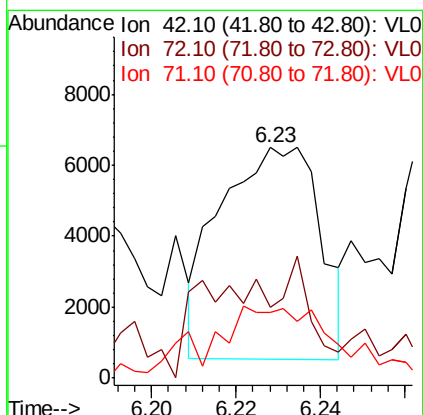
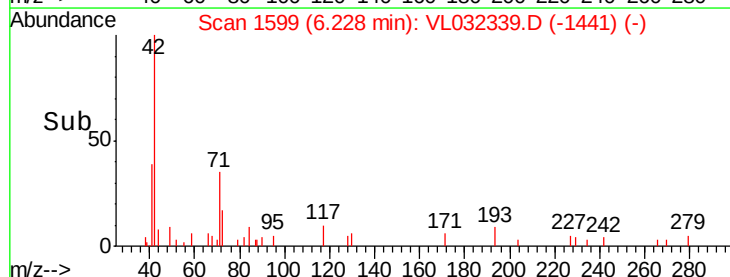
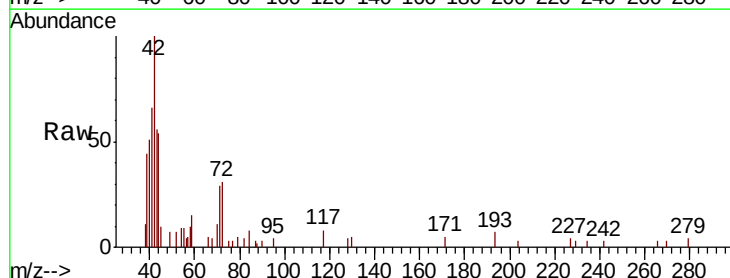
Tgt Ion: 42 Resp: 9869

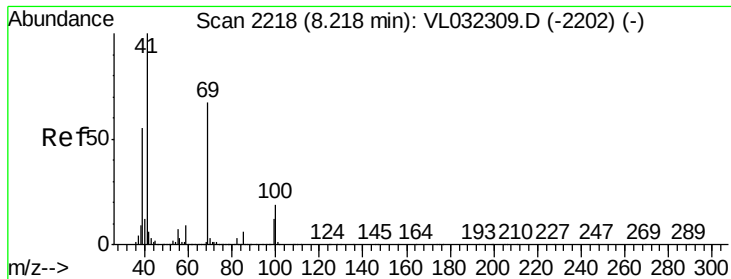
Ion Ratio Lower Upper

42 100

72 69.5 28.6 42.8#

71 49.0 27.8 41.6#





#43

Methyl Methacrylate

Concen: 0.633 ppbv

RT: 8.25 min Scan# 2229

Delta R.T. 0.04 min

Lab File: VL032339.D

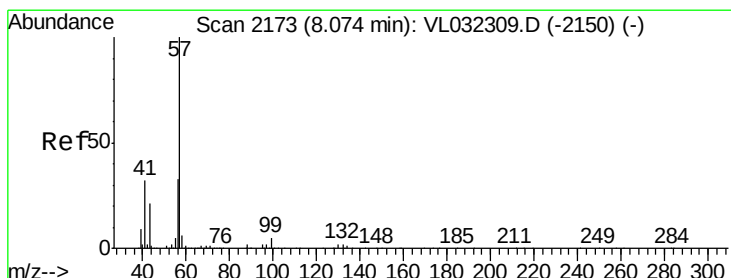
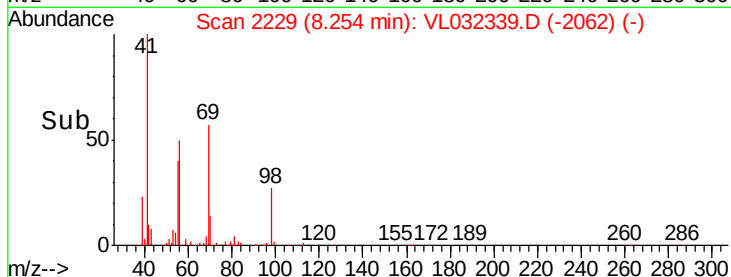
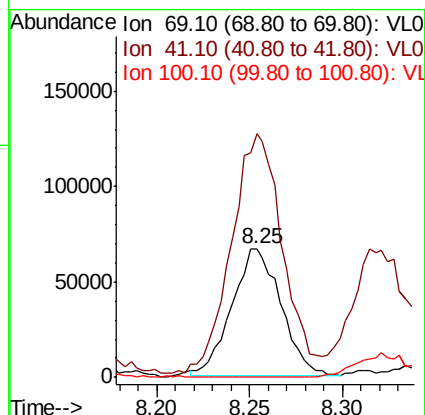
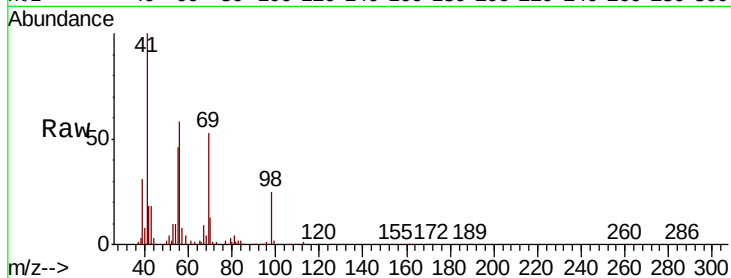
Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	69	Resp:	121307
Ion	Ratio	Lower	Upper
69	100		
41	199.2	120.6	180.8#
100	0.0	23.2	34.8#



#44

2,2,4-Trimethylpentane

Concen: 0.132 ppbv

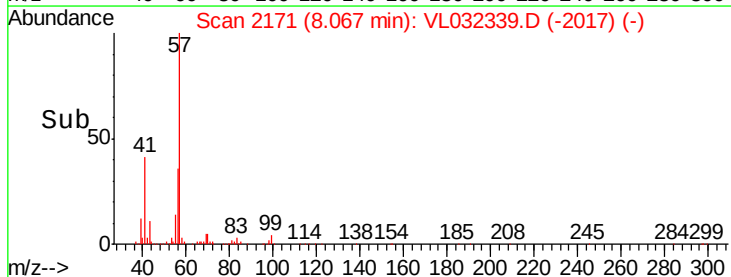
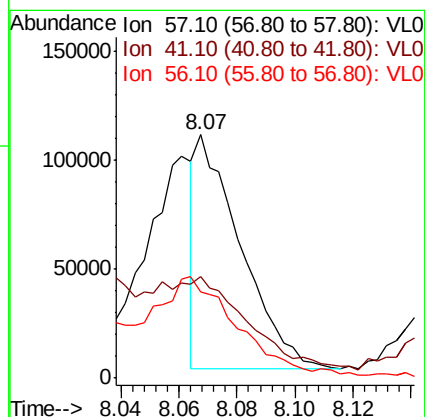
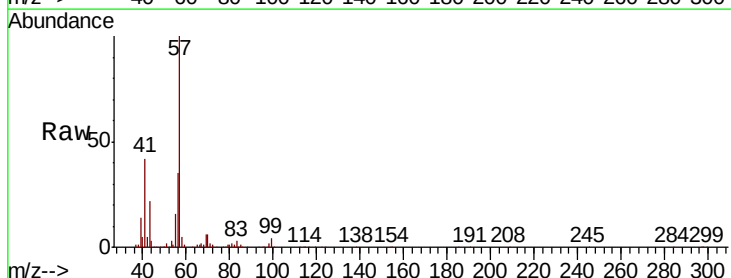
RT: 8.07 min Scan# 2171

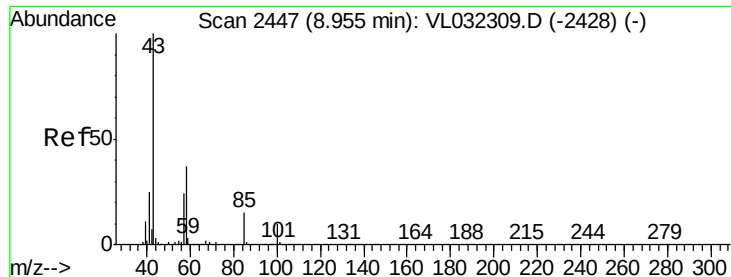
Delta R.T. -0.01 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Tgt Ion:	57	Resp:	114417
Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.3	36.5#
56	78.0	25.4	38.2#





#50

4-Methyl-2-Pentanone

Concen: 0.050 ppbv

RT: 8.95 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

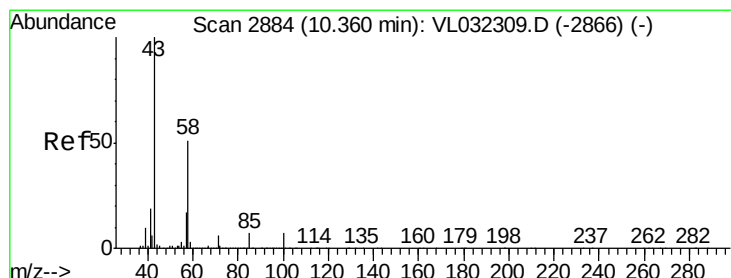
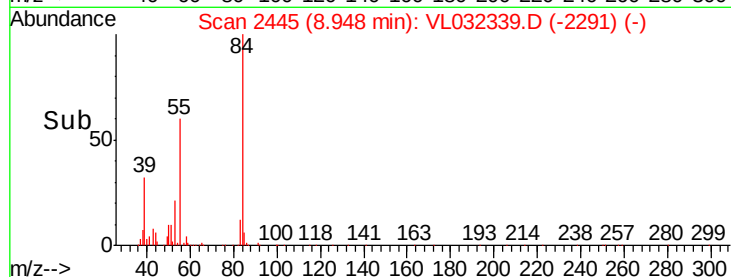
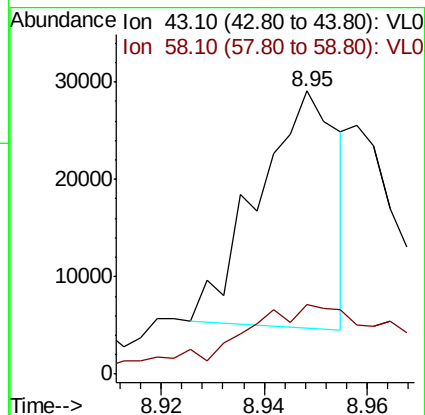
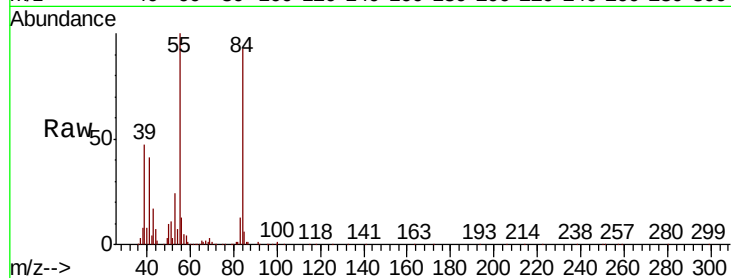
ClientSampleId :

Tot Ion: 43 Resp: 26099

Ion Ratio Lower Upper

43 100

58 75.6 28.9 43.3#



#51

2-Hexanone

Concen: 8.355 ppbv

RT: 10.34 min Scan# 2879

Delta R.T. -0.02 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

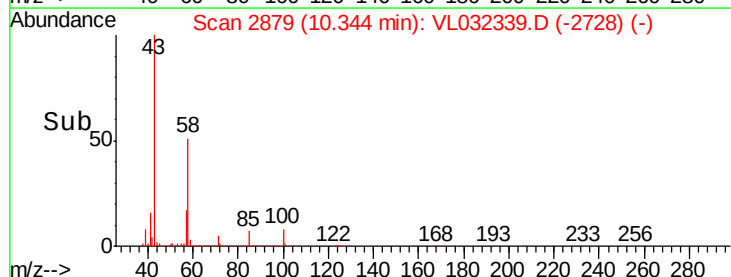
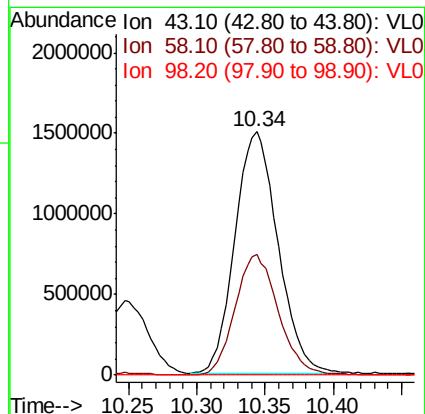
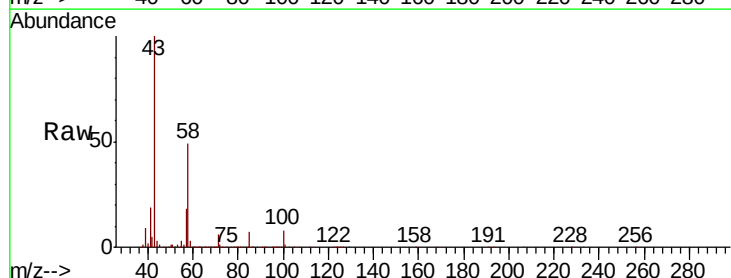
Tgt Ion: 43 Resp: 3291010

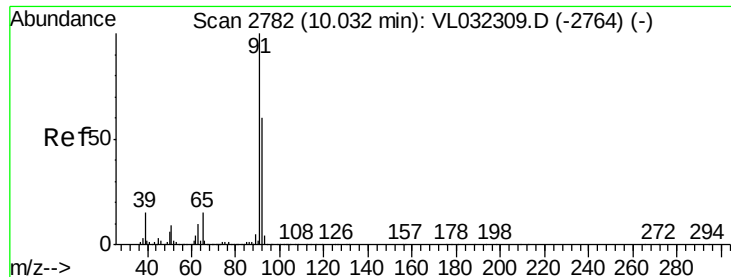
Ion Ratio Lower Upper

43 100

58 49.9 39.1 58.7

98 0.1 0.3 0.5#





#53

Toluene

Concen: 0.189 ppbv

RT: 10.03 min Scan# 2781

Delta R.T. -0.00 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

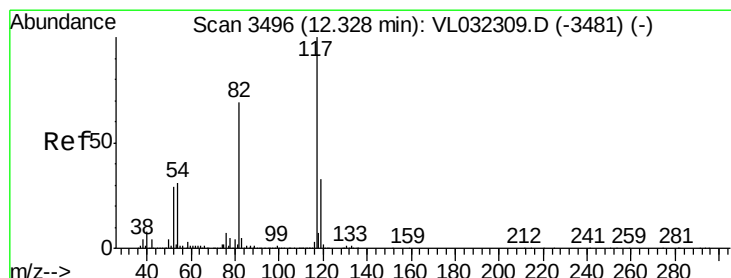
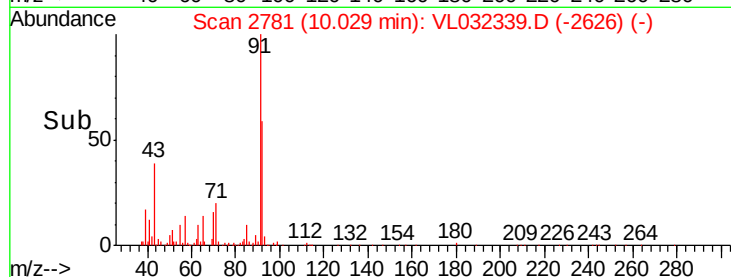
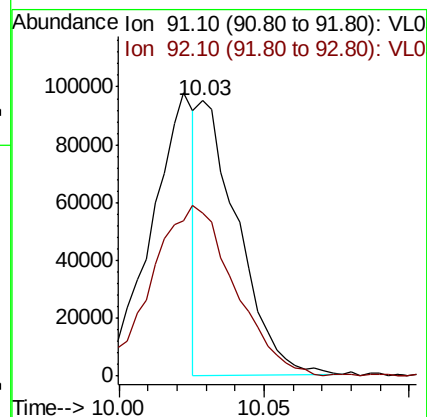
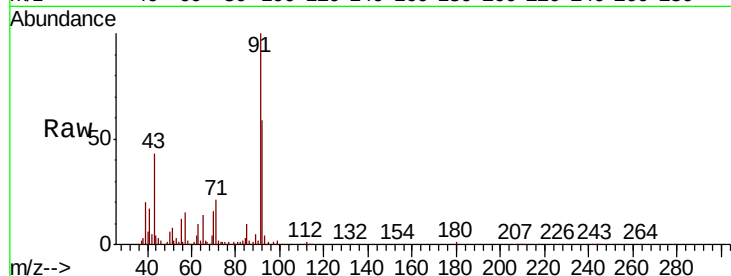
ClientSampleId :

Tot Ion: 91 Resp: 90270

Ion Ratio Lower Upper

91 100

92 132.0 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.32 min Scan# 3494

Delta R.T. -0.01 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

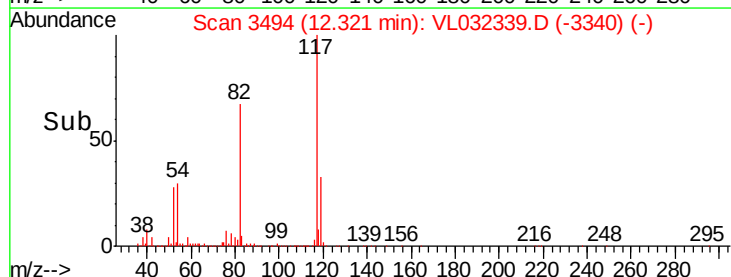
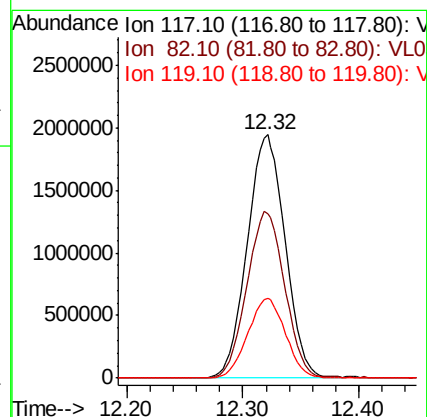
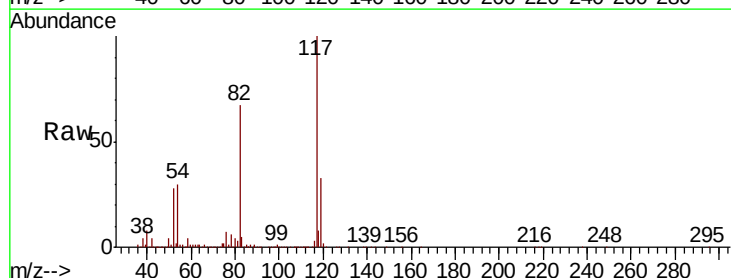
Tgt Ion: 117 Resp: 4417518

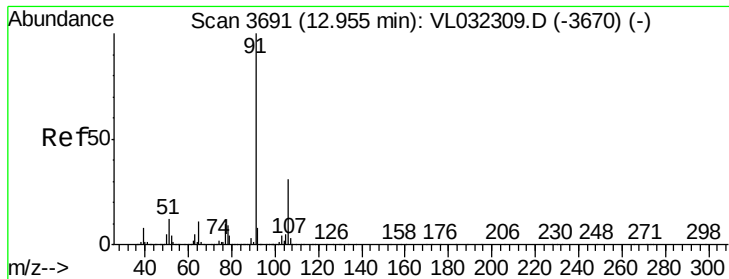
Ion Ratio Lower Upper

117 100

82 68.4 52.6 78.8

119 32.7 25.7 38.5





#58

Ethyl Benzene

Concen: 0.037 ppbv

RT: 12.94 min Scan# 3686

Delta R.T. -0.02 min

Lab File: VL032339.D

Acq: 2 Aug 2018 1:59

Instrument :

MSVOA_L

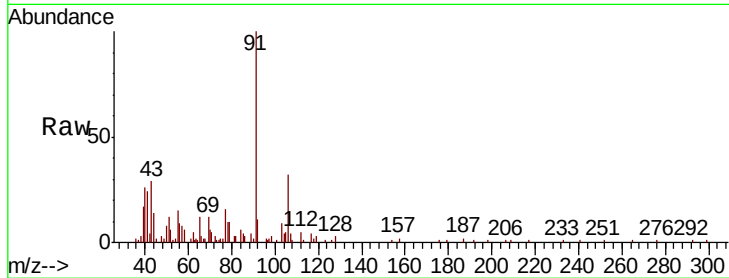
ClientSampleId :

Tot Ion: 91 Resp: 20666

Ion Ratio Lower Upper

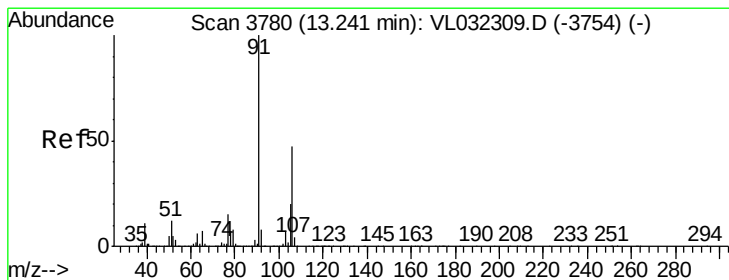
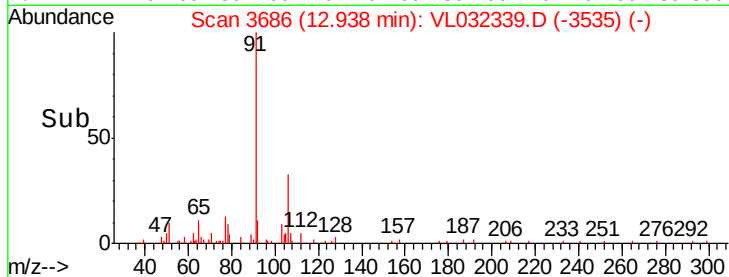
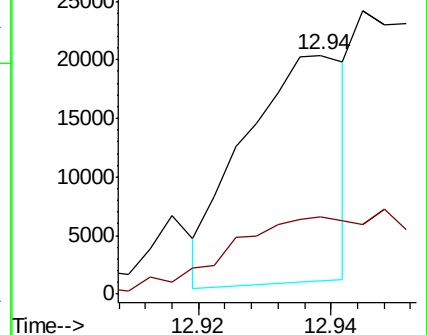
91 100

106 28.1 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.046 ppbv

RT: 13.23 min Scan# 3776

Delta R.T. -0.01 min

Lab File: VL032339.D

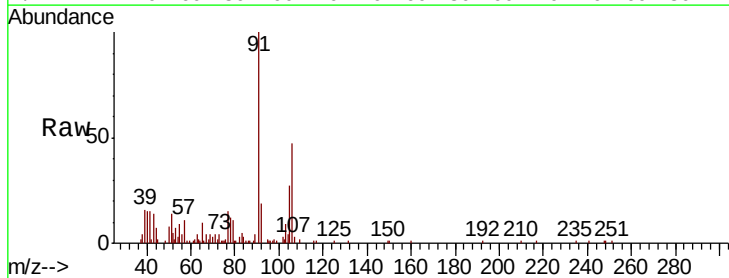
Acq: 2 Aug 2018 1:59

Tgt Ion: 91 Resp: 21502

Ion Ratio Lower Upper

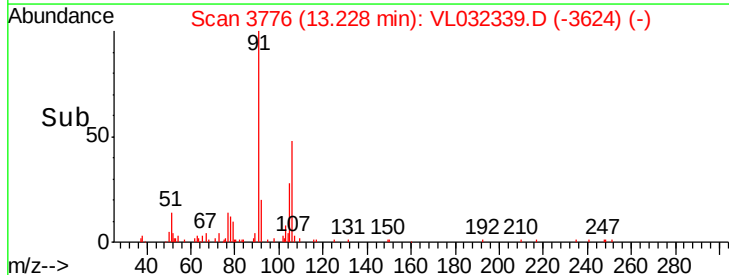
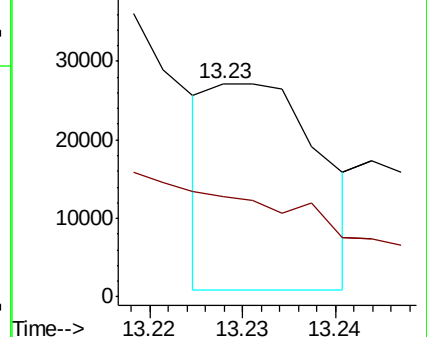
91 100

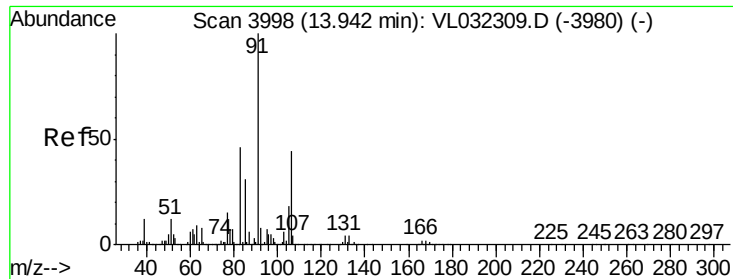
106 0.0 36.4 54.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

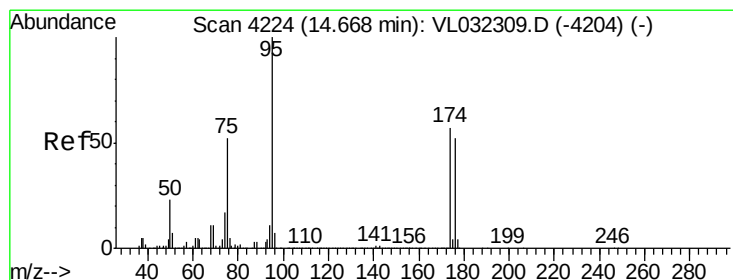
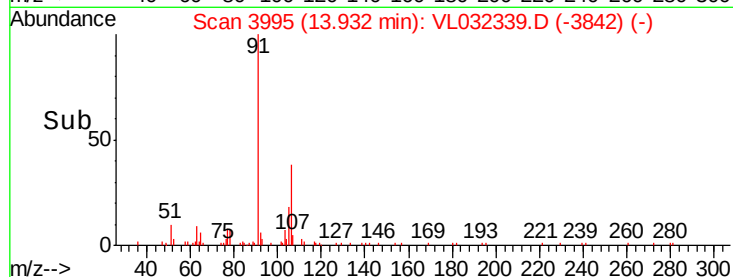
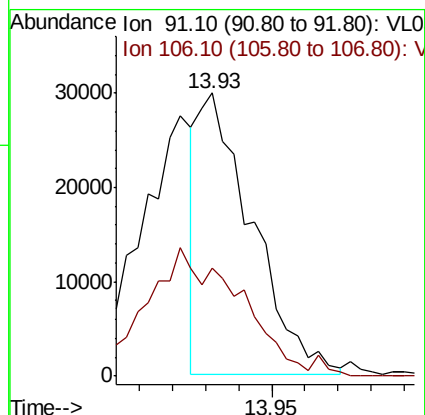
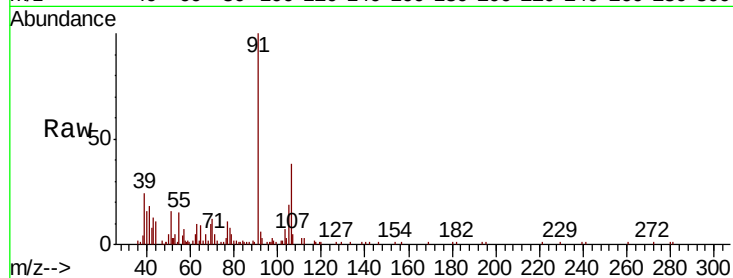




#60
o-Xylene
Concen: 0.072 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

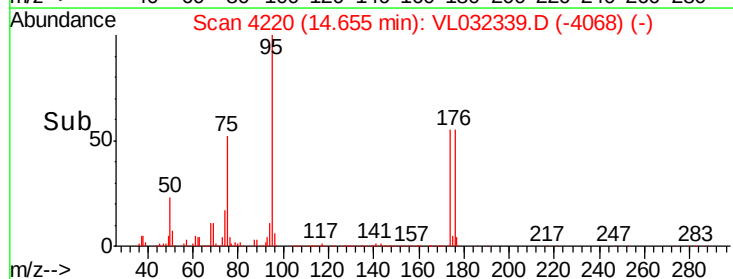
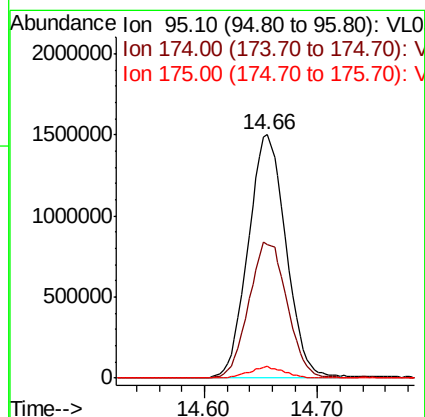
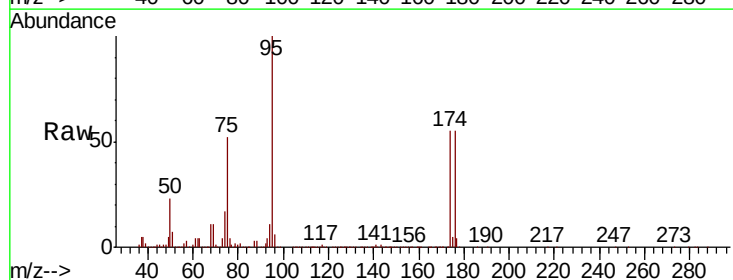
Instrument :
MSVOA_L
ClientSampleId :

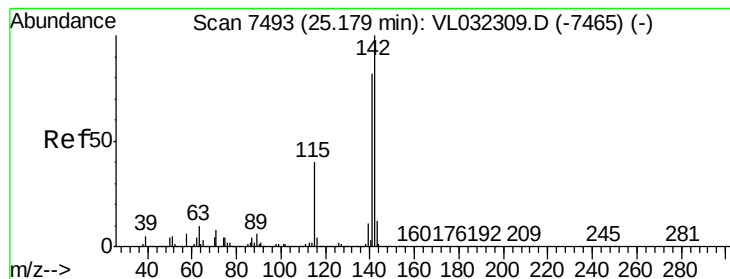
Tot Ion: 91 Resp: 33448
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.168 ppbv
RT: 14.66 min Scan# 4220
Delta R.T. -0.01 min
Lab File: VL032339.D
Acq: 2 Aug 2018 1:59

Tgt Ion: 95 Resp: 3486554
Ion Ratio Lower Upper
95 100
174 56.5 45.5 68.3
175 4.3 3.3 4.9

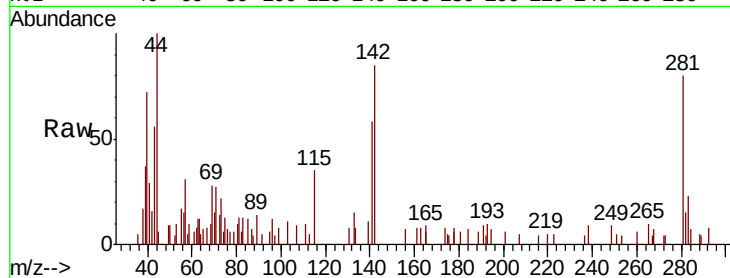




#80
 Naphthalene, 2-methyl-
 Concen: 0.040 ppbv
 RT: 25.18 min Scan# 7492
 Delta R.T. -0.00 min
 Lab File: VL032339.D
 Acq: 2 Aug 2018 1:59

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.4	66.7	100.1
115	61.6	31.1	46.7



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

