

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032340.D
 Acq On : 2 Aug 2018 2:39
 Operator : SY/AP
 Sample : J4258-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 02 03:03:11 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	5.83	49	1813500	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4525603	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4423969	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3519060	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

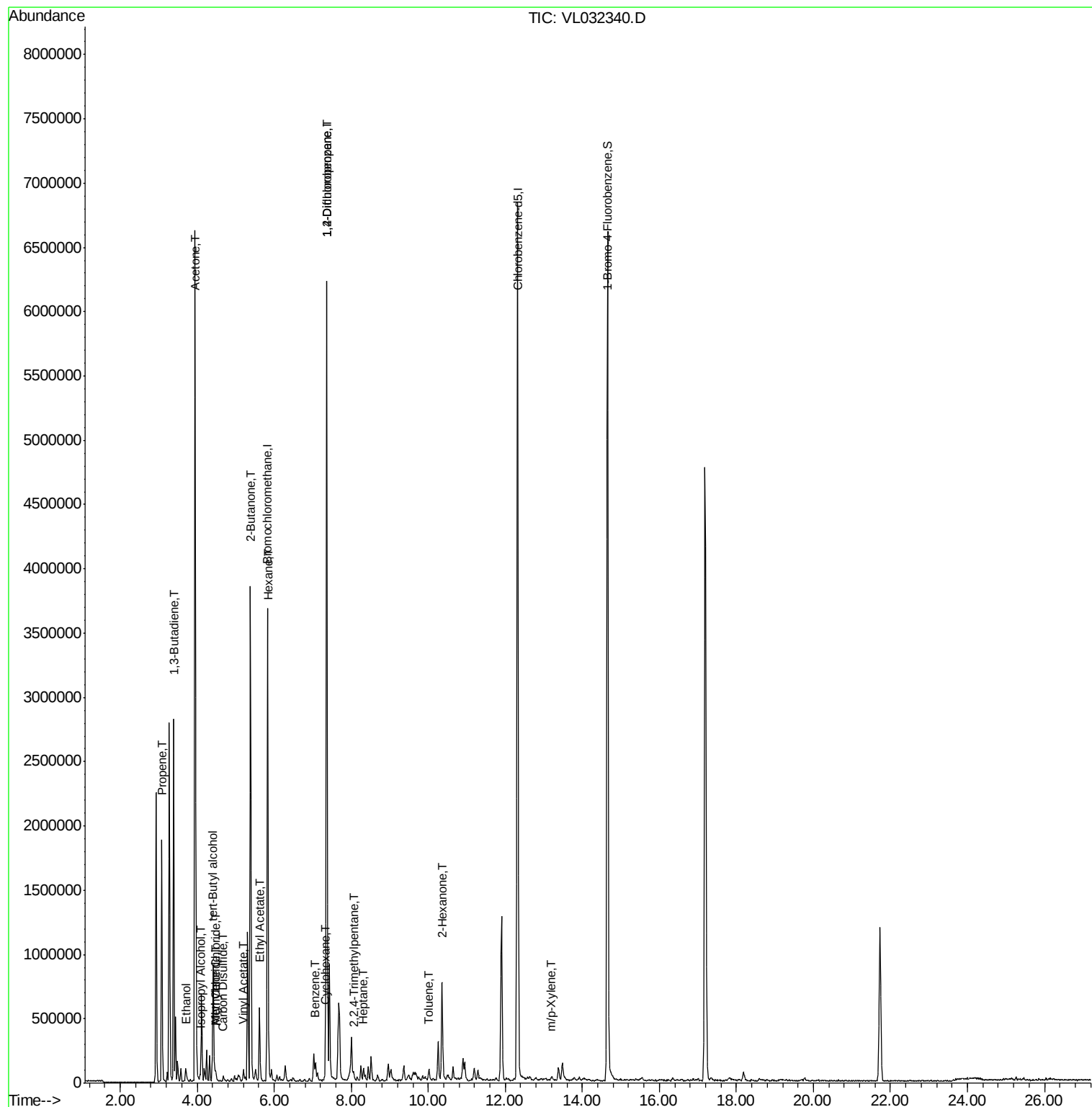
Target Compounds					Ovalue
9) Propene	3.08	41	808344	9.915 ppbv	93
10) Heptane	8.31	43	14560	0.051 ppbv #	28
13) Ethanol	3.70	45	109564	4.676 ppbv	100
15) Acetone	3.95	43	7017765	41.058 ppbv	92
16) 1,3-Butadiene	3.39	39	698919	7.887 ppbv #	9
17) tert-Butyl alcohol	4.41	59	837740	15.421 ppbv	98
19) Isopropyl Alcohol	4.08	45	47447	0.416 ppbv #	95
20) Methylene Chloride	4.47	84	13650	0.199 ppbv #	70
21) Allyl Chloride	4.48	41	5414	0.046 ppbv #	22
23) Vinyl Acetate	5.21	43	53933	0.176 ppbv #	83
25) Ethyl Acetate	5.62	43	97019	0.253 ppbv #	16
26) Hexane	5.84	57	49976	0.288 ppbv #	1
27) Carbon Disulfide	4.68	76	41181	0.261 ppbv #	81
30) Cyclohexane	7.32	84	9226	0.068 ppbv #	23
34) 2-Butanone	5.38	43	4619152	15.769 ppbv	99
36) Benzene	7.08	78	65807	0.165 ppbv #	90
39) 1,2-Dichloropropane	7.36	63	1244836	6.203 ppbv #	26
44) 2,2,4-Trimethylpentane	8.06	57	33337	0.039 ppbv #	51
51) 2-Hexanone	10.36	43	690589	1.753 ppbv #	100
53) Toluene	10.02	91	18784	0.039 ppbv #	20
59) m/p-Xylene	13.21	91	14812	0.031 ppbv #	31

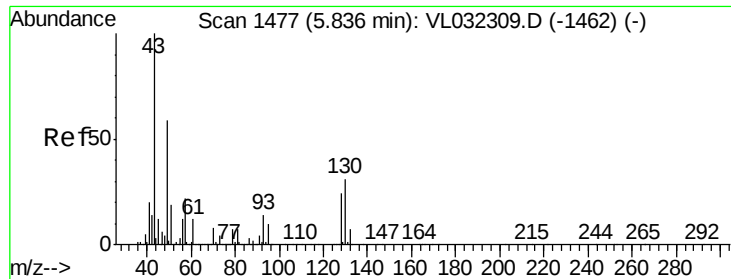
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080118\
Data File : VL032340.D
Acq On : 2 Aug 2018 2:39
Operator : SY/AP
Sample : J4258-01DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 02 03:03:11 2018
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

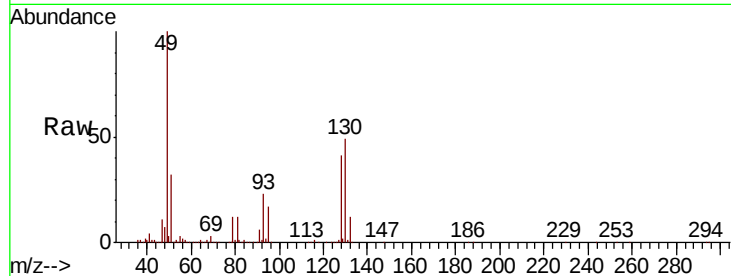
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1813500

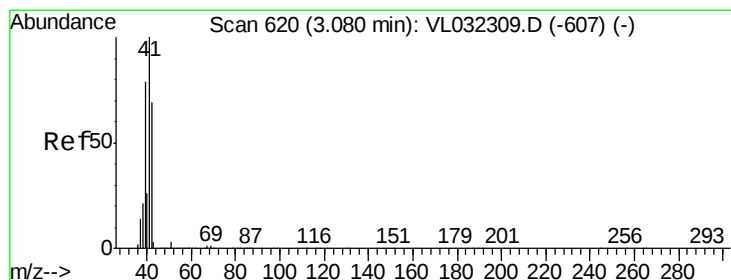
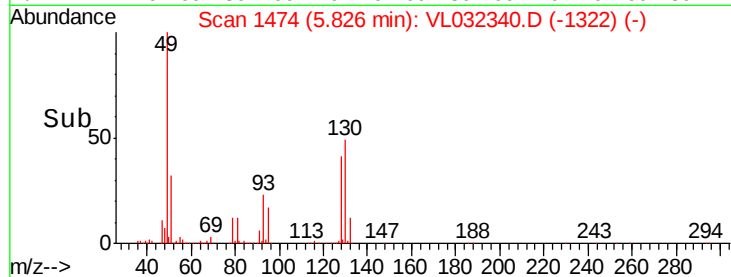
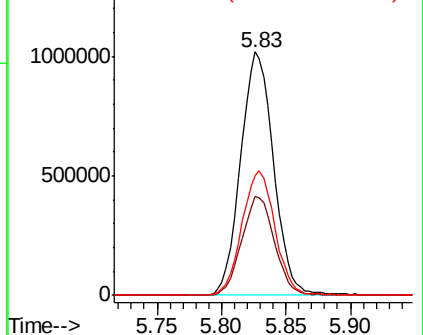
Ion	Ratio	Lower	Upper
49	100		
128	40.6	20.2	60.6
130	51.6	25.8	77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 9.915 ppbv

RT: 3.08 min Scan# 619

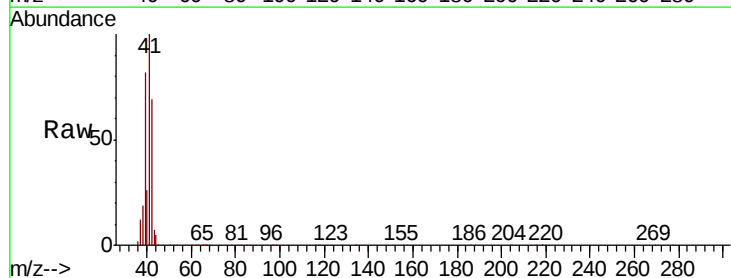
Delta R.T. -0.00 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

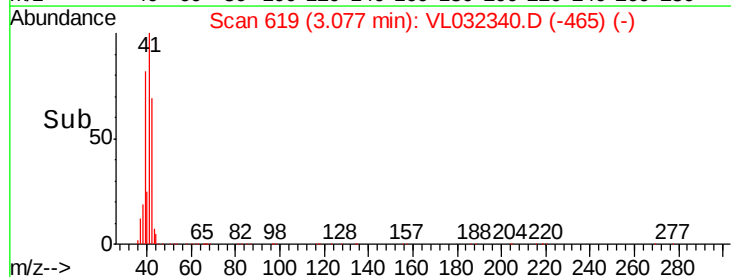
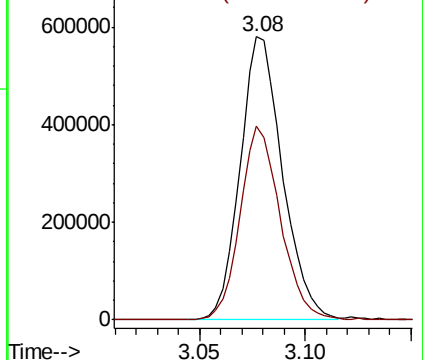
Tgt Ion: 41 Resp: 808344

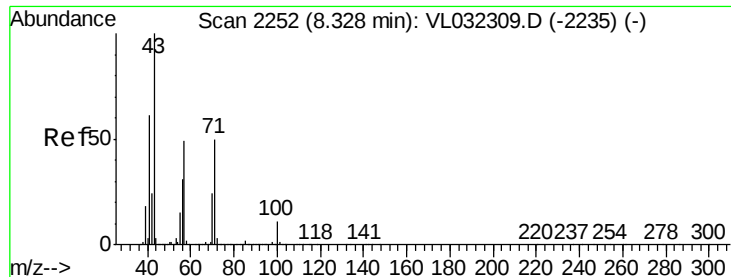
Ion	Ratio	Lower	Upper
41	100		
42	65.3	56.8	85.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.051 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

Instrument :

MSVOA_L

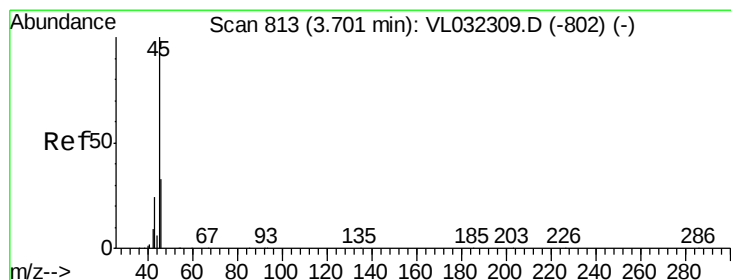
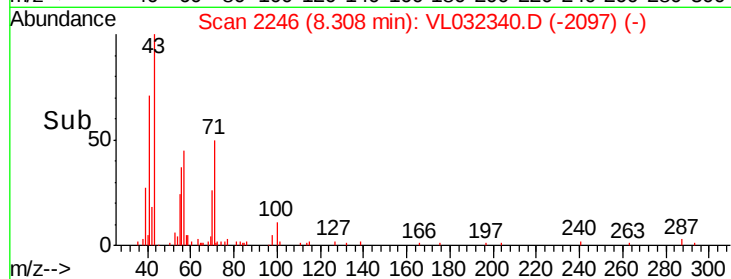
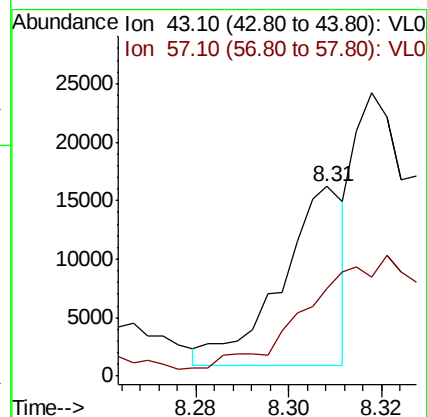
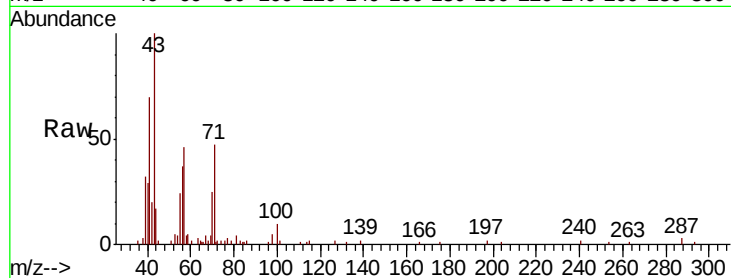
ClientSampleId :

Tot Ion: 43 Resp: 14560

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.4#



#13

Ethanol

Concen: 4.676 ppbv

RT: 3.70 min Scan# 813

Delta R.T. -0.00 min

Lab File: VL032340.D

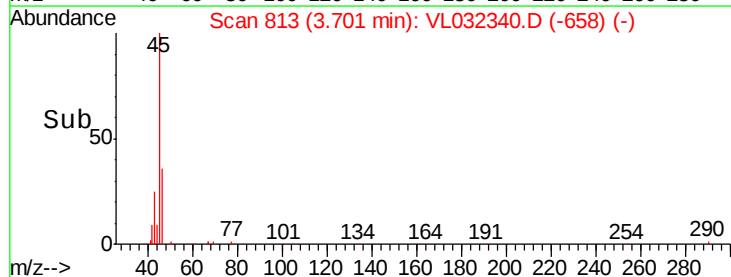
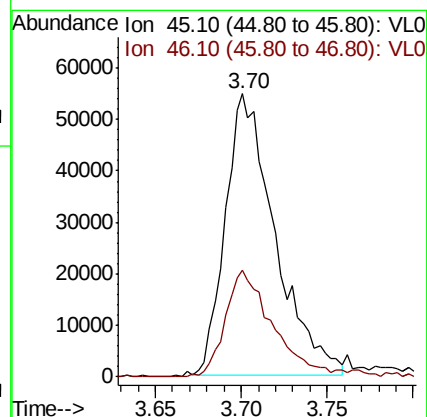
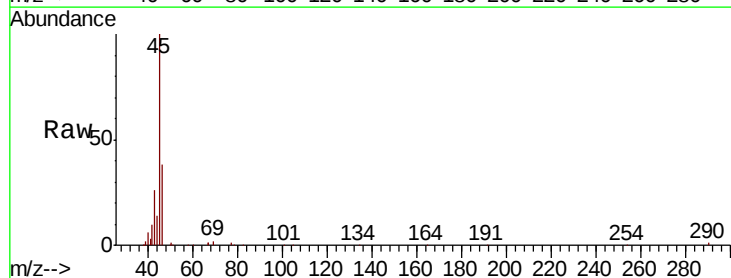
Acq: 2 Aug 2018 2:39

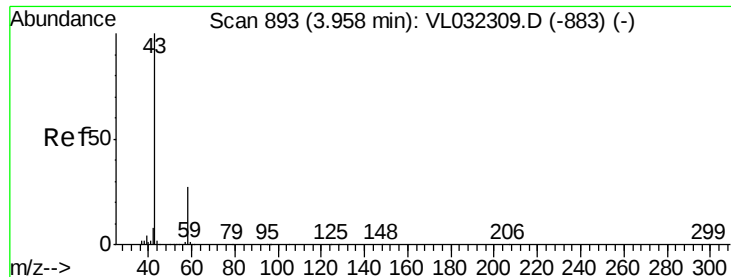
Tgt Ion: 45 Resp: 109564

Ion Ratio Lower Upper

45 100

46 37.7 15.2 60.6





#15

Acetone

Concen: 41.058 ppbv

RT: 3.95 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

Instrument :

MSVOA_L

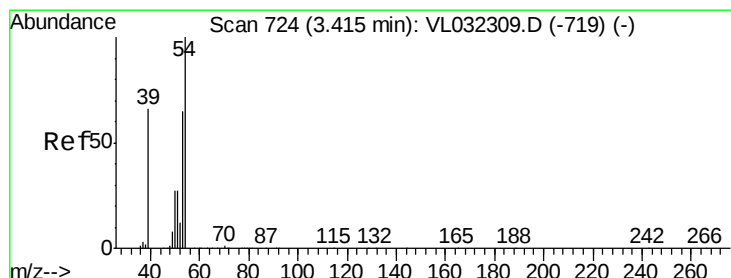
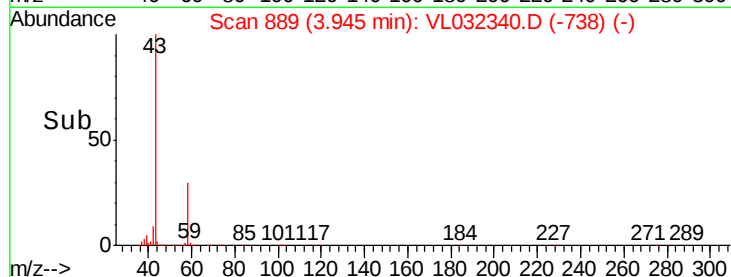
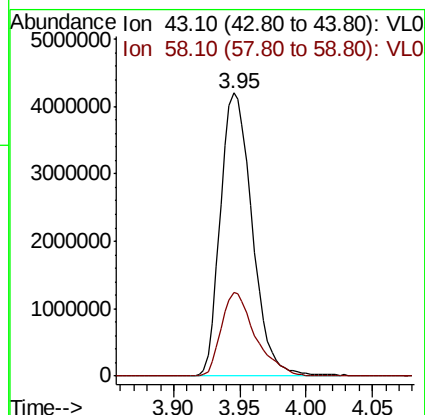
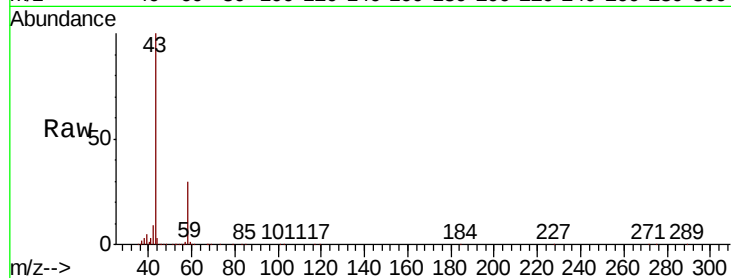
ClientSampleId :

Tot Ion: 43 Resp: 7017765

Ion Ratio Lower Upper

43 100

58 32.1 22.5 33.7



#16

1,3-Butadiene

Concen: 7.887 ppbv

RT: 3.39 min Scan# 716

Delta R.T. -0.03 min

Lab File: VL032340.D

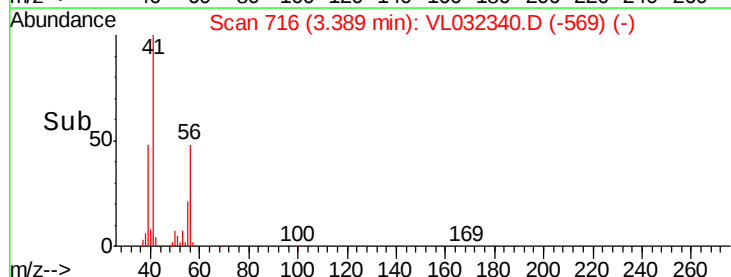
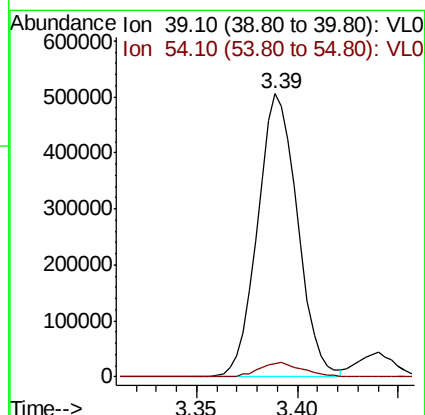
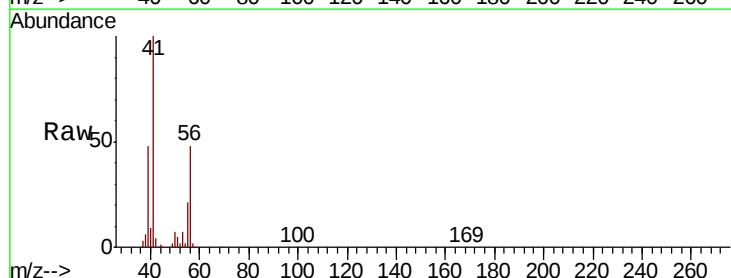
Acq: 2 Aug 2018 2:39

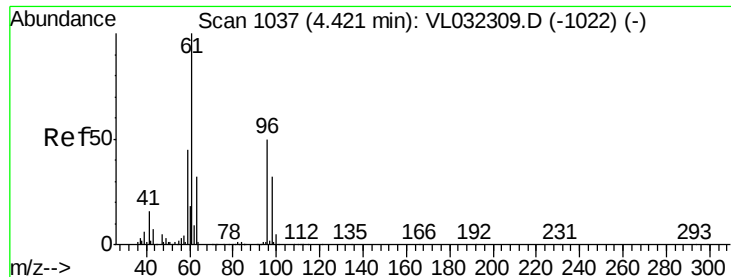
Tgt Ion: 39 Resp: 698919

Ion Ratio Lower Upper

39 100

54 5.9 74.3 111.5#





#17

tert-Butyl alcohol

Concen: 15.421 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

Instrument :

MSVOA_L

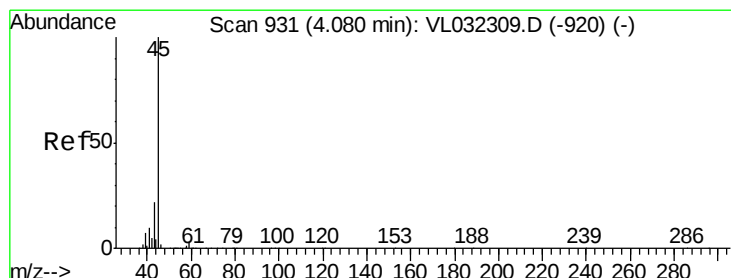
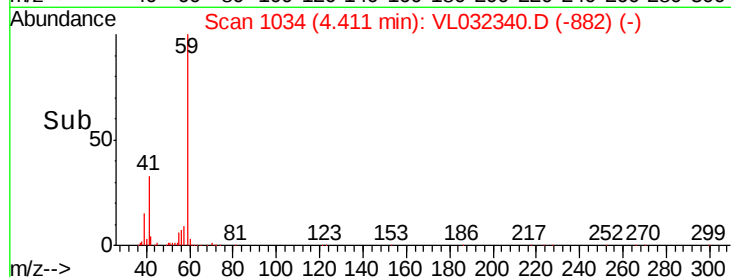
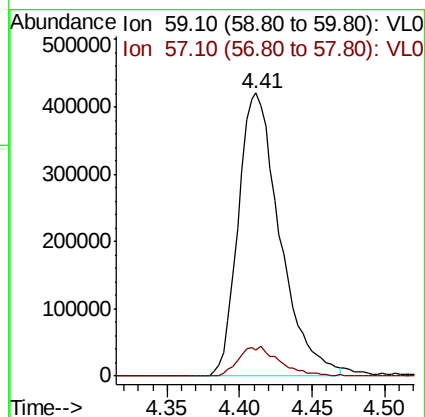
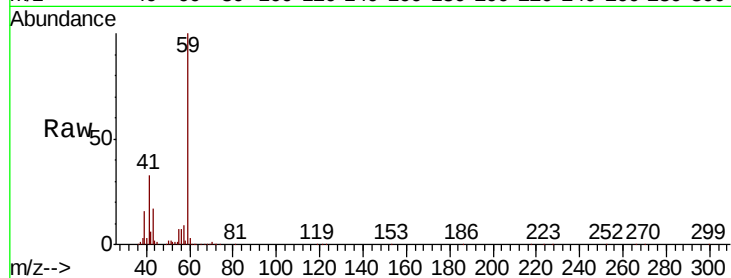
ClientSampleId :

Tot Ion: 59 Resp: 837740

Ion Ratio Lower Upper

59 100

57 10.9 8.0 12.0



#19

Isopropyl Alcohol

Concen: 0.416 ppbv

RT: 4.08 min Scan# 932

Delta R.T. 0.00 min

Lab File: VL032340.D

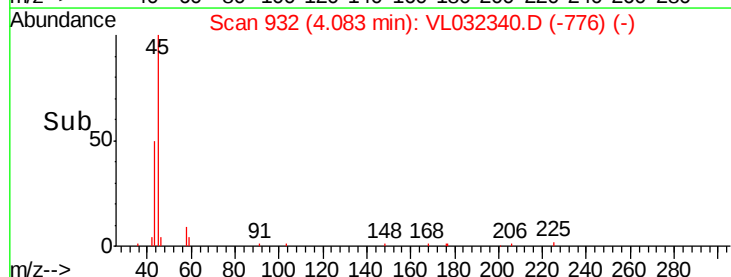
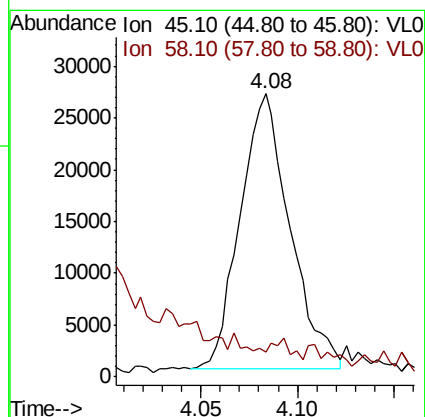
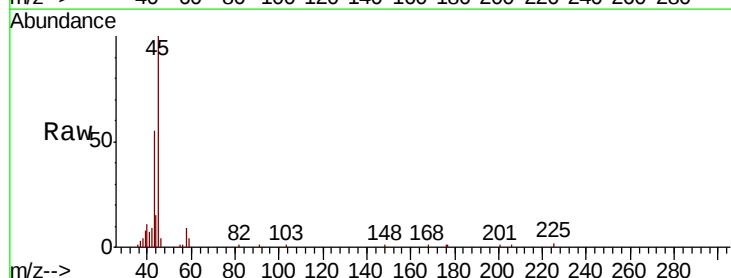
Acq: 2 Aug 2018 2:39

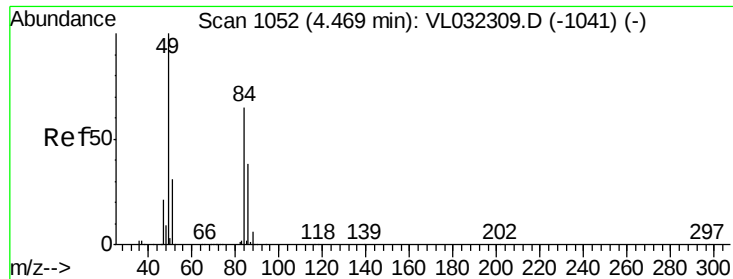
Tgt Ion: 45 Resp: 47447

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

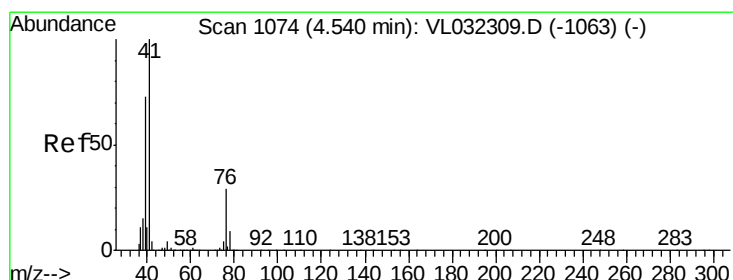
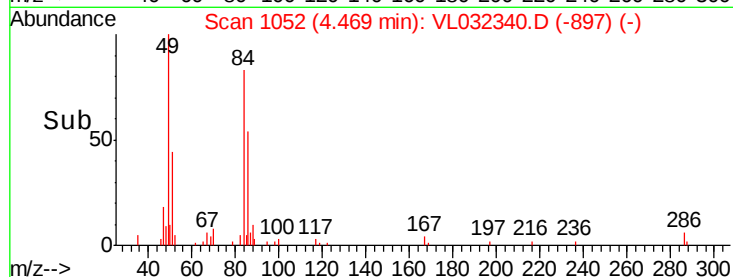
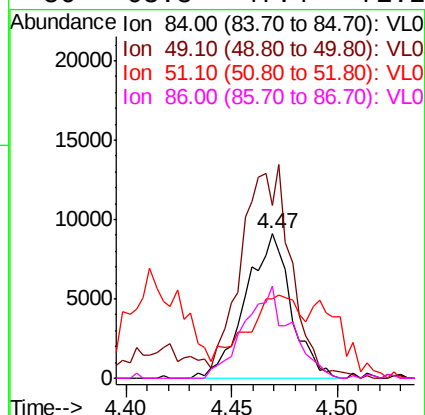
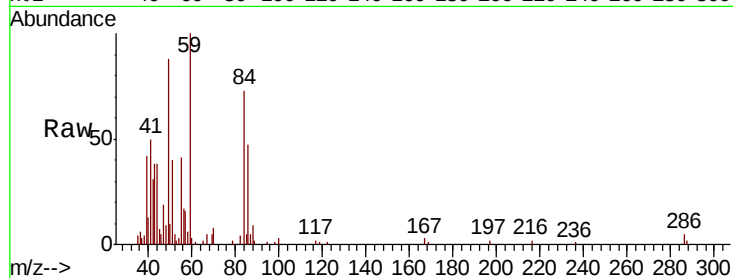




#20
Methylene Chloride
Concen: 0.199 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

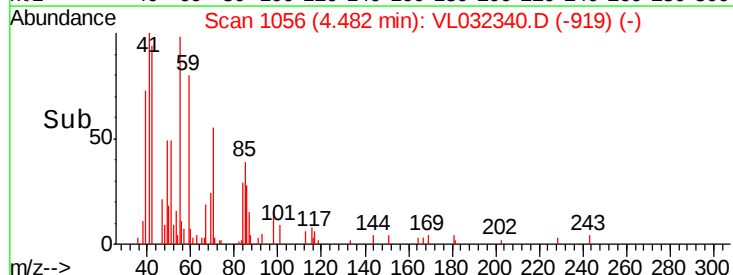
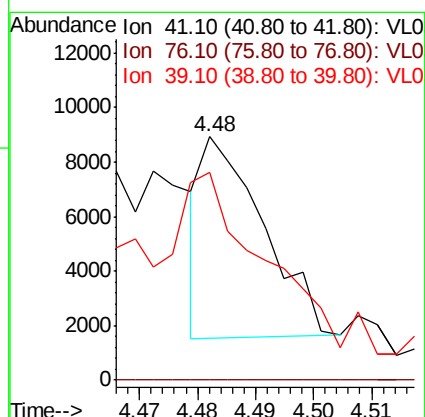
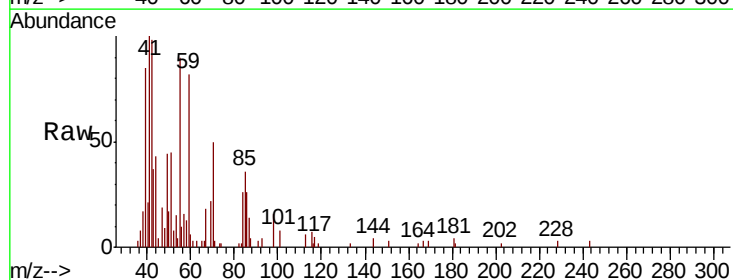
Instrument :
MSVOA_L
ClientSampleId :

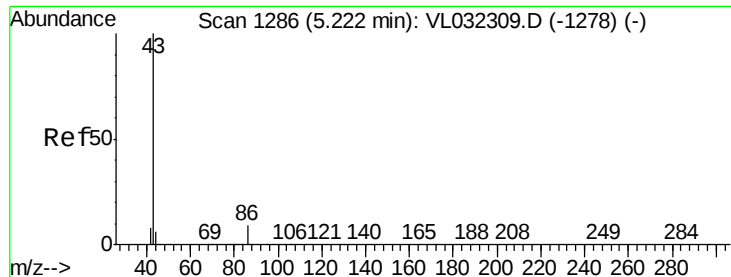
Tot Ion: 84 Resp: 13650
Ion Ratio Lower Upper
84 100
49 112.7 123.4 185.0#
51 12.7 38.2 57.2#
86 63.8 47.4 71.2



#21
Allyl Chloride
Concen: 0.046 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.06 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

Tgt Ion: 41 Resp: 5414
Ion Ratio Lower Upper
41 100
76 0.0 23.1 34.7#
39 0.0 58.2 87.2#

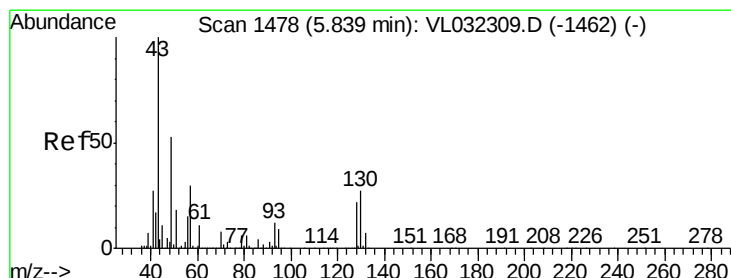
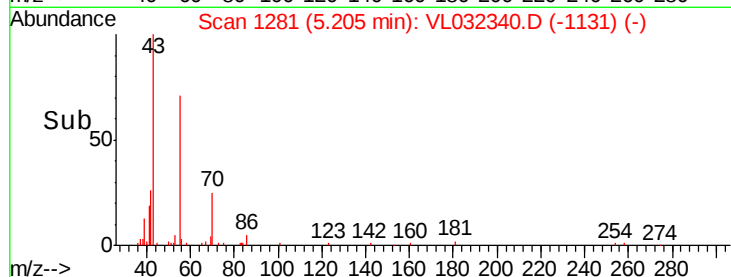
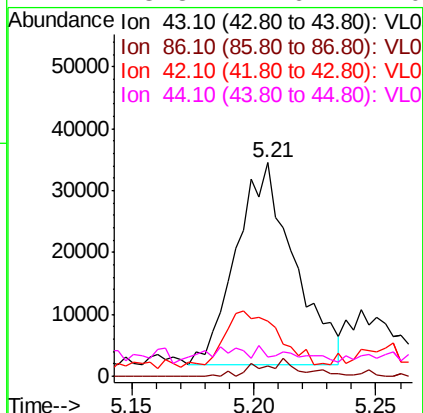
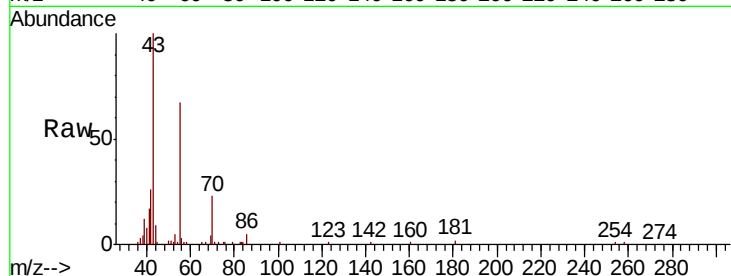




#23
 Vinyl Acetate
 Concen: 0.176 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. -0.02 min
 Lab File: VL032340.D
 Acq: 2 Aug 2018 2:39

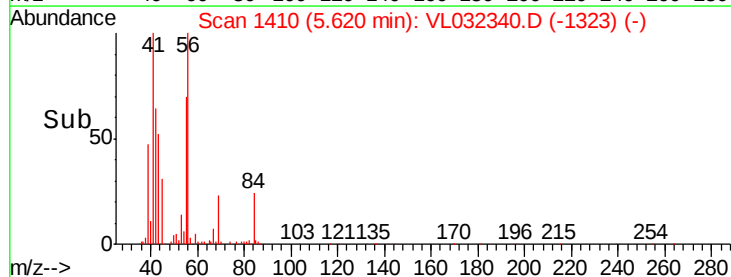
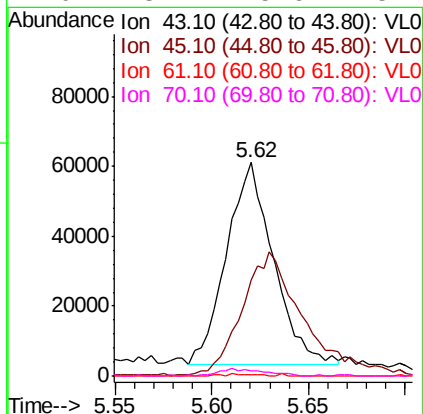
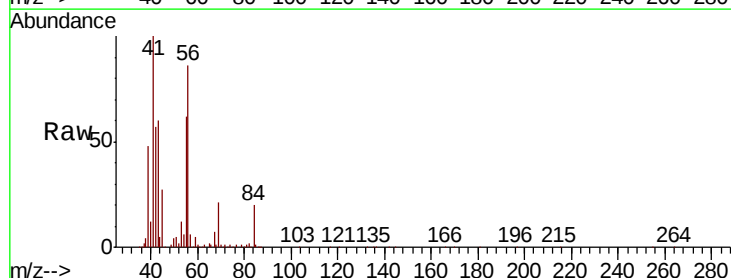
Instrument :
 MSVOA_L
 ClientSampleId :

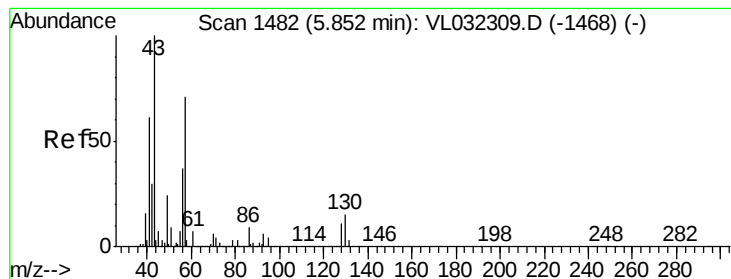
Tot Ion:	43	Resp:	53933
Ion	Ratio	Lower	Upper
43	100		
86	5.1	6.3	9.5#
42	19.9	7.0	10.4#
44	3.8	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.253 ppbv
 RT: 5.62 min Scan# 1410
 Delta R.T. -0.22 min
 Lab File: VL032340.D
 Acq: 2 Aug 2018 2:39

Tgt Ion:	43	Resp:	97019
Ion	Ratio	Lower	Upper
43	100		
45	81.4	8.1	12.1#
61	0.8	7.4	11.0#
70	3.7	5.6	8.4#





#26

Hexane

Concen: 0.288 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.01 min

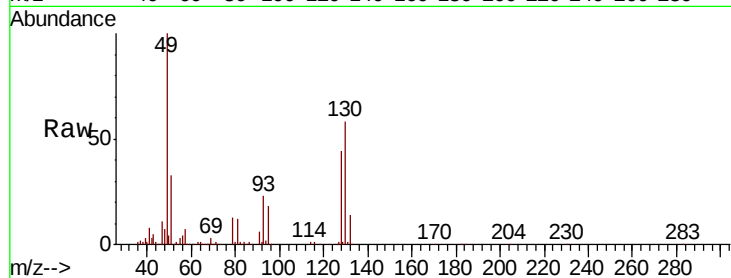
Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

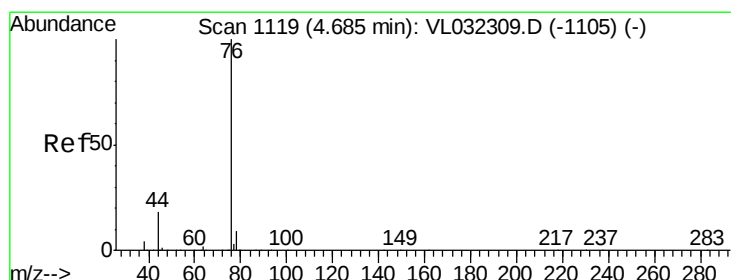
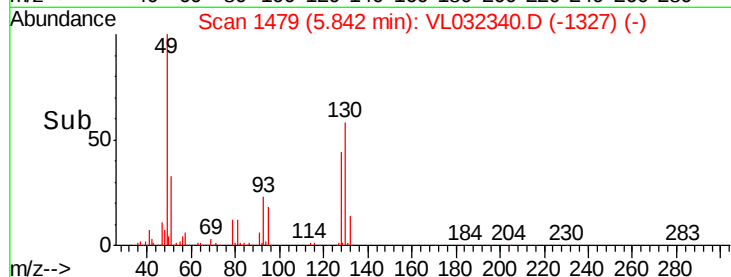
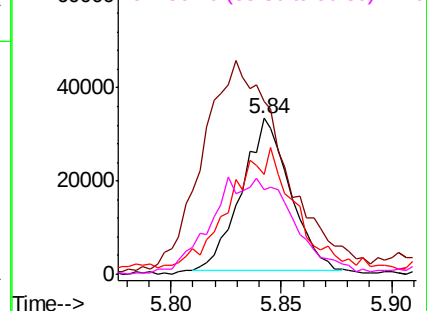
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 49976

Ion	Ratio	Lower	Upper
57	100		
41	231.5	68.1	102.1#
43	0.0	177.4	266.2#
56	107.8	41.9	62.9#



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



#27

Carbon Disulfide

Concen: 0.261 ppbv

RT: 4.68 min Scan# 1117

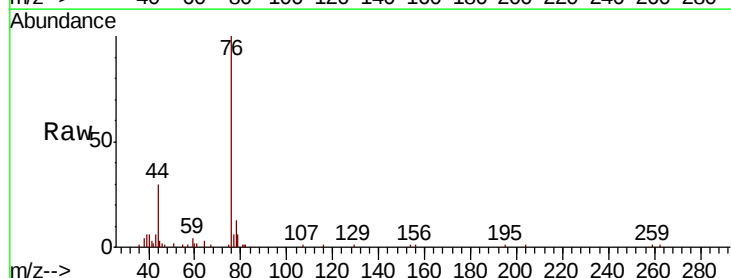
Delta R.T. -0.01 min

Lab File: VL032340.D

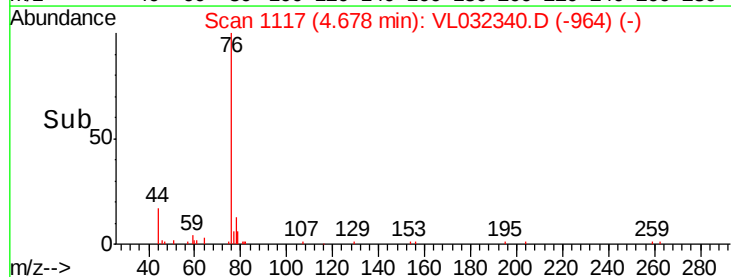
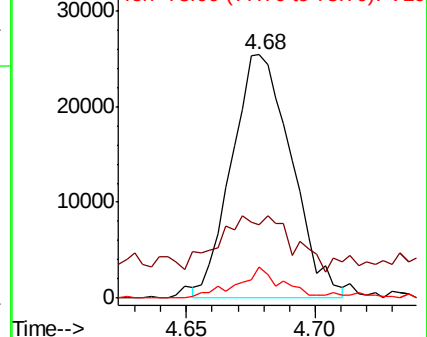
Acq: 2 Aug 2018 2:39

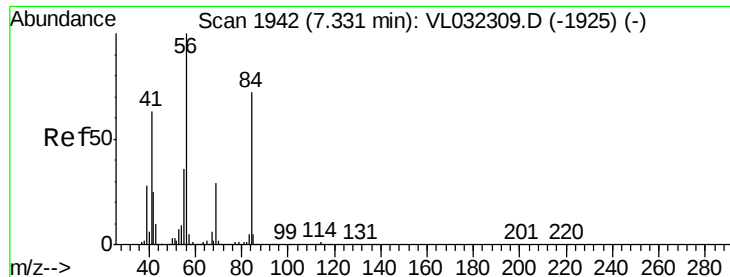
Tgt Ion: 76 Resp: 41181

Ion	Ratio	Lower	Upper
76	100		
44	29.1	14.0	21.0#
78	11.4	7.5	11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

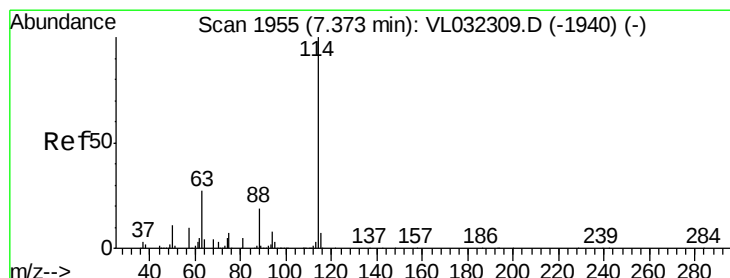
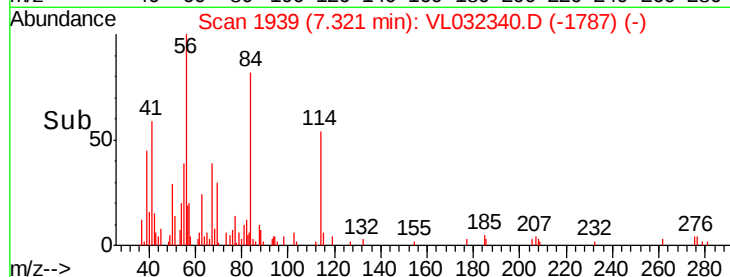
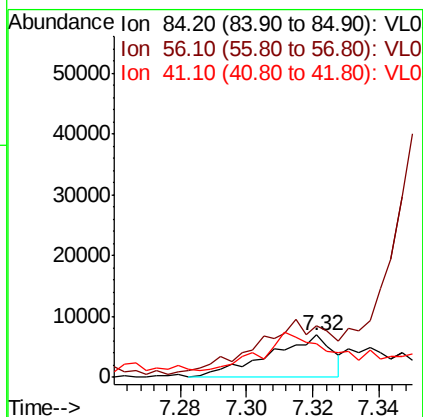
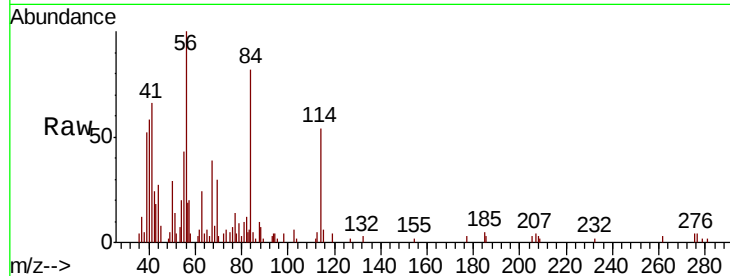




#30
Cvclohexane
Concen: 0.068 ppbv
RT: 7.32 min Scan# 1939
Delta R.T. -0.01 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

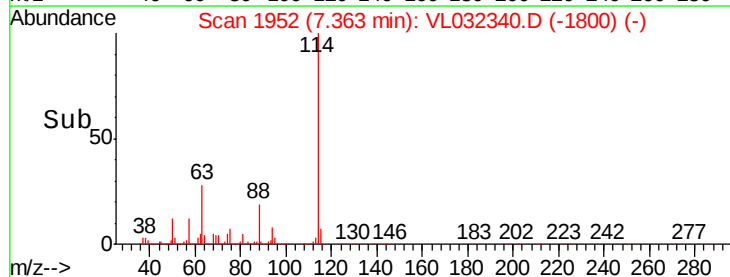
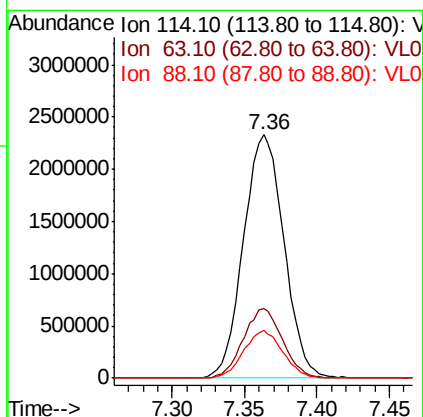
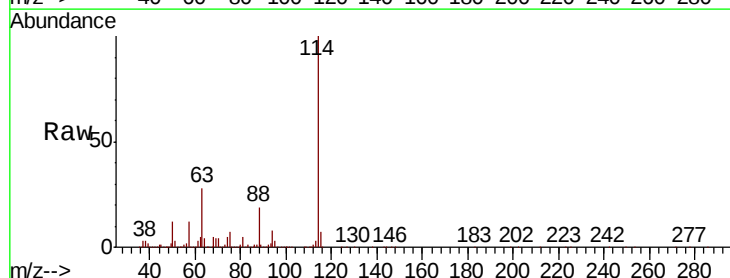
Instrument :
MSVOA_L
ClientSampleId :

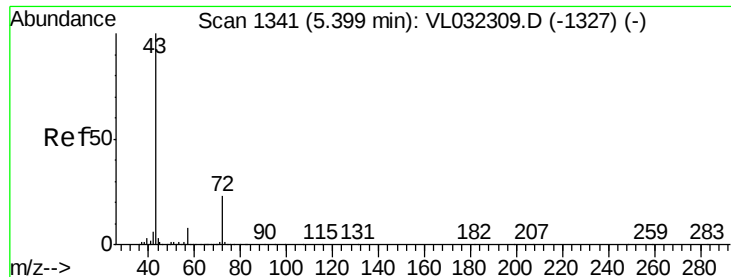
Tot Ion: 84 Resp: 9226
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 97.6 70.0 105.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.36 min Scan# 1952
Delta R.T. -0.01 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

Tgt Ion: 114 Resp: 4525603
Ion Ratio Lower Upper
114 100
63 27.8 22.4 33.6
88 19.0 15.3 22.9

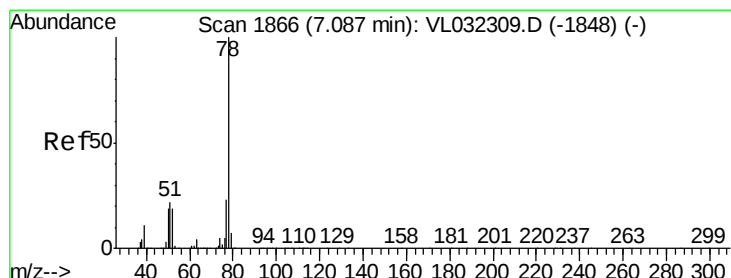
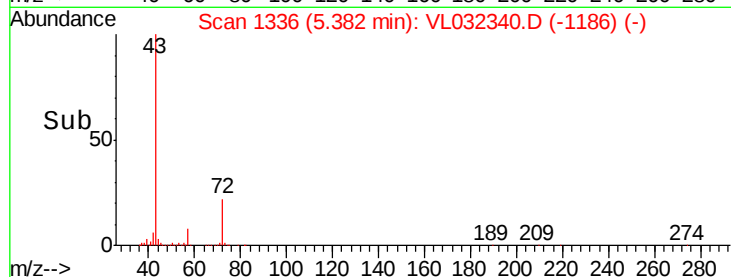
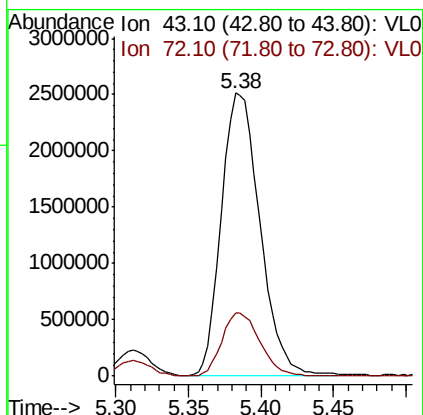
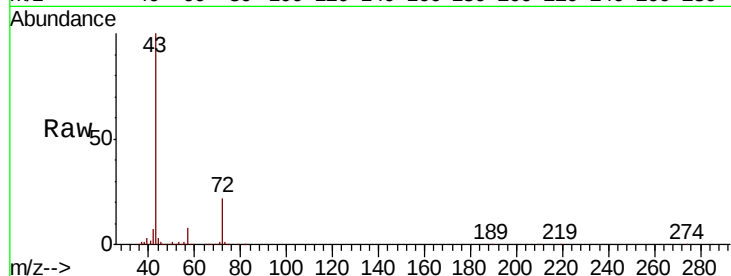




#34
2-Butanone
Concen: 15.769 ppbv
RT: 5.38 min Scan# 1336
Delta R.T. -0.02 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

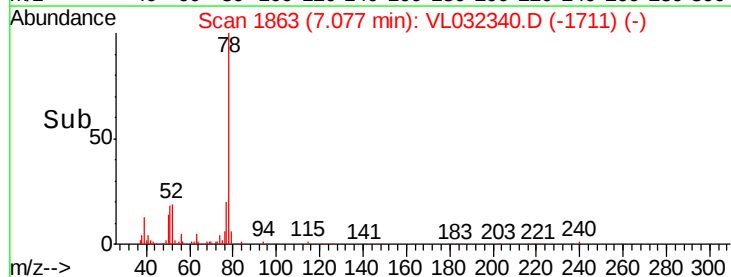
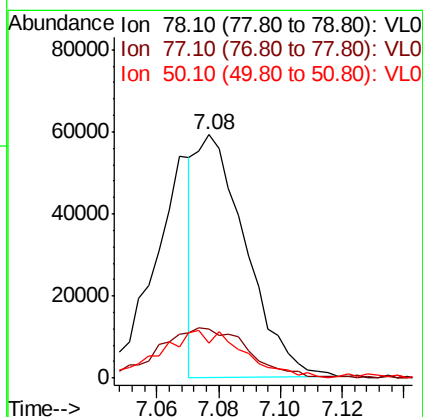
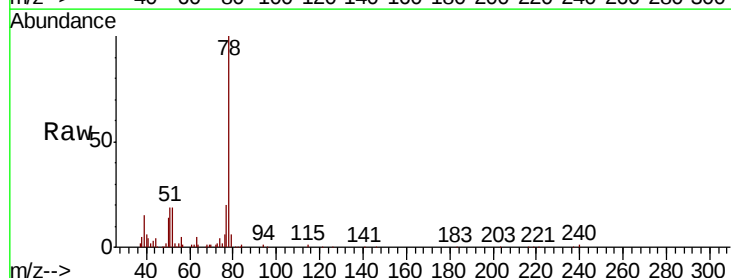
Instrument :
MSVOA_L
ClientSampleId :

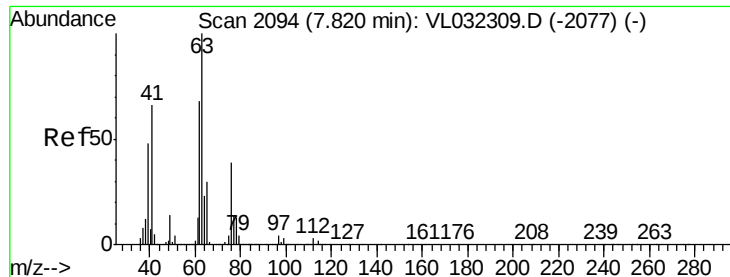
Tot Ion: 43 Resp: 4619152
Ion Ratio Lower Upper
43 100
72 22.5 17.4 26.2



#36
Benzene
Concen: 0.165 ppbv
RT: 7.08 min Scan# 1863
Delta R.T. -0.01 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

Tgt Ion: 78 Resp: 65807
Ion Ratio Lower Upper
78 100
77 19.3 18.4 27.6
50 13.6 15.3 22.9#





#39

1,2-Dichloropropane

Concen: 6.203 ppbv

RT: 7.36 min Scan# 1952

Delta R.T. -0.46 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

Instrument :

MSVOA_L

ClientSampleId :

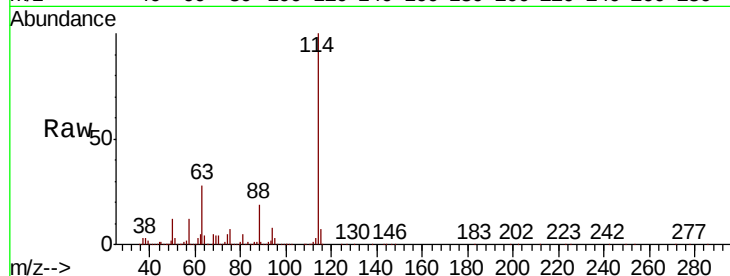
Tot Ion: 63 Resp: 1244836

Ion Ratio Lower Upper

63 100

41 0.0 52.5 78.7#

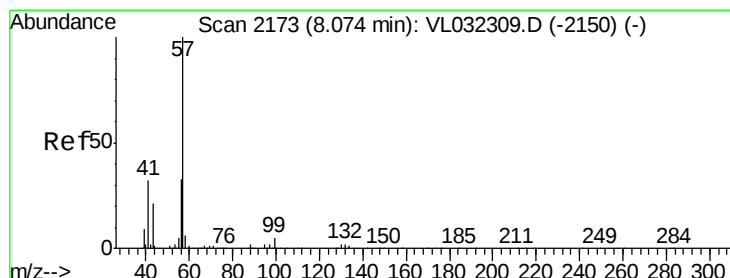
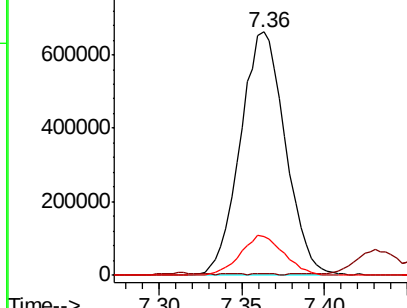
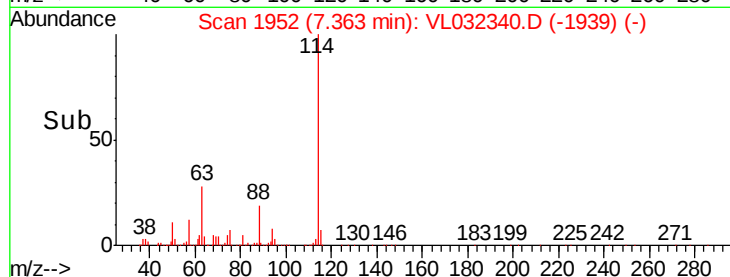
62 15.9 54.6 81.8#



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



#44

2,2,4-Trimethylpentane

Concen: 0.039 ppbv

RT: 8.06 min Scan# 2169

Delta R.T. -0.01 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

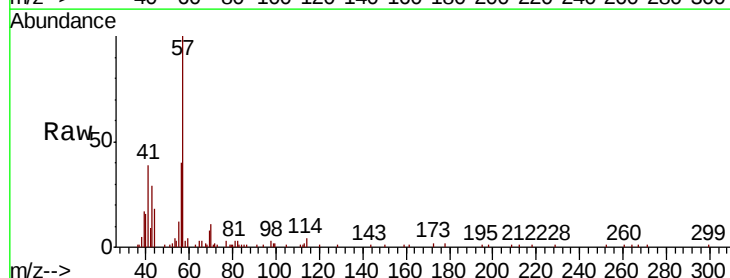
Tgt Ion: 57 Resp: 33337

Ion Ratio Lower Upper

57 100

41 58.6 24.3 36.5#

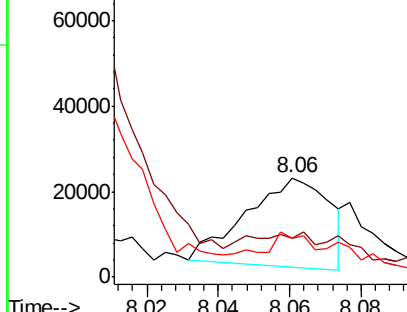
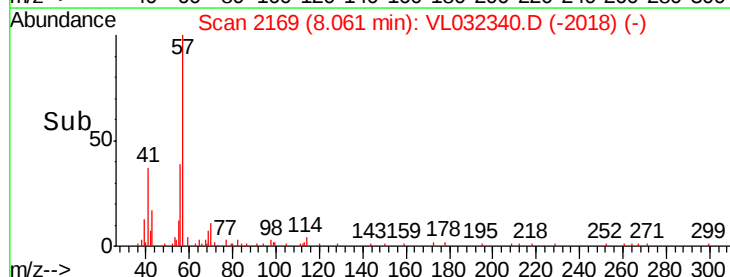
56 58.1 25.4 38.2#

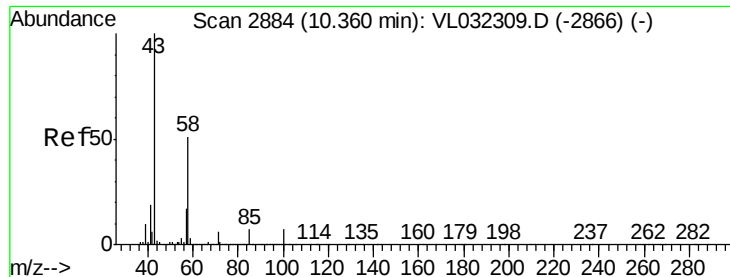


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#51

2-Hexanone

Concen: 1.753 ppbv

RT: 10.36 min Scan# 2883

Delta R.T. -0.00 min

Lab File: VL032340.D

Acq: 2 Aug 2018 2:39

Instrument :

MSVOA_L

ClientSampled :

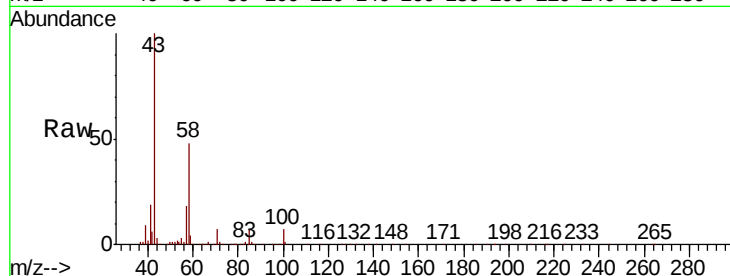
Tot Ion: 43 Resp: 690589

Ion Ratio Lower Upper

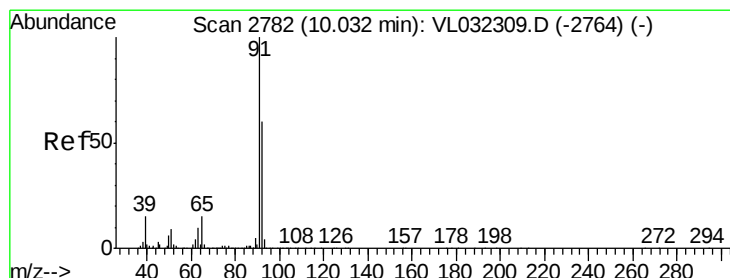
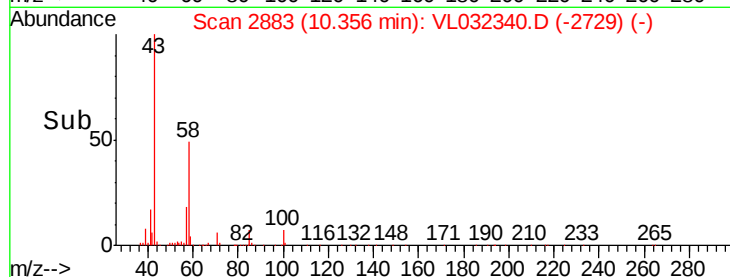
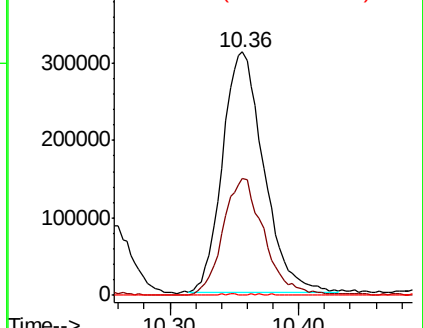
43 100

58 48.6 39.1 58.7

98 0.6 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#53

Toluene

Concen: 0.039 ppbv

RT: 10.02 min Scan# 2778

Delta R.T. -0.01 min

Lab File: VL032340.D

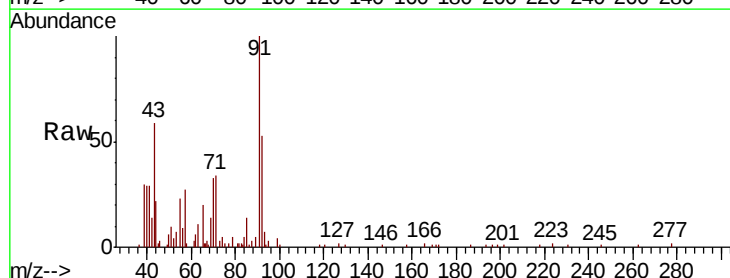
Acq: 2 Aug 2018 2:39

Tgt Ion: 91 Resp: 18784

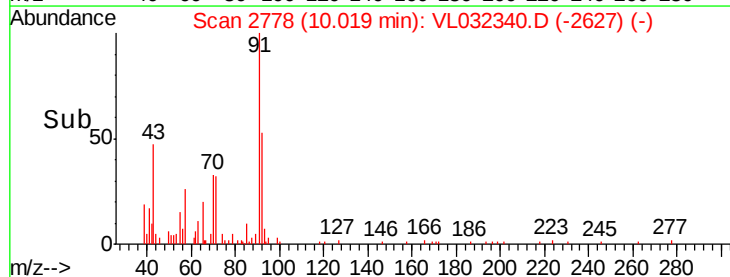
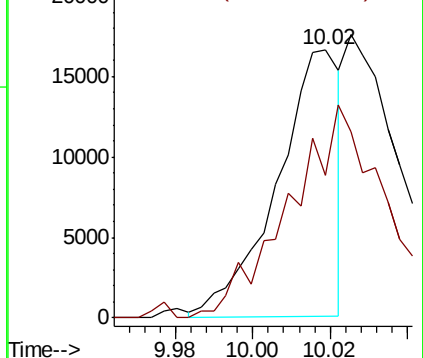
Ion Ratio Lower Upper

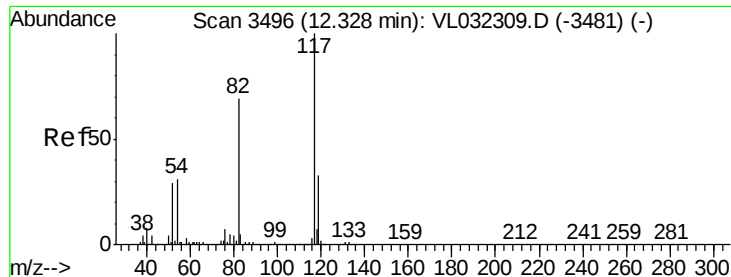
91 100

92 0.0 48.6 72.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

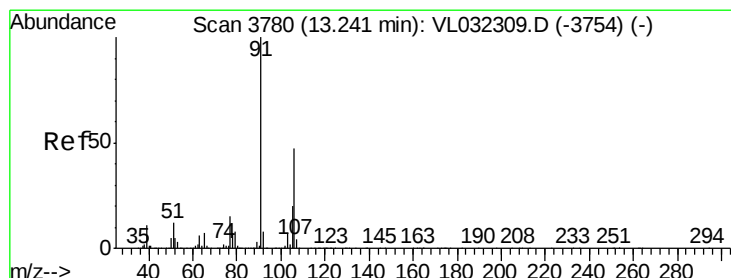
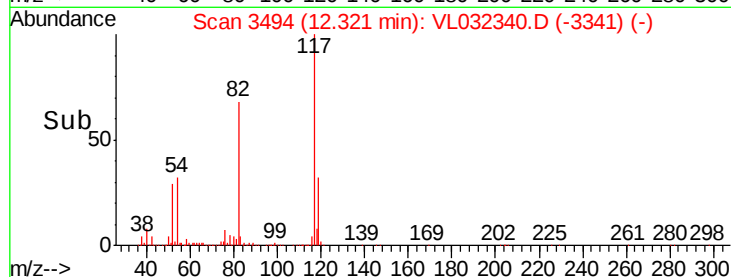
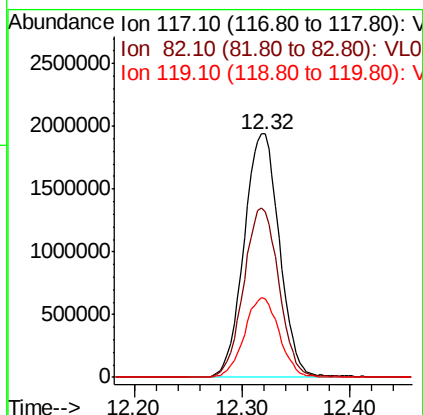
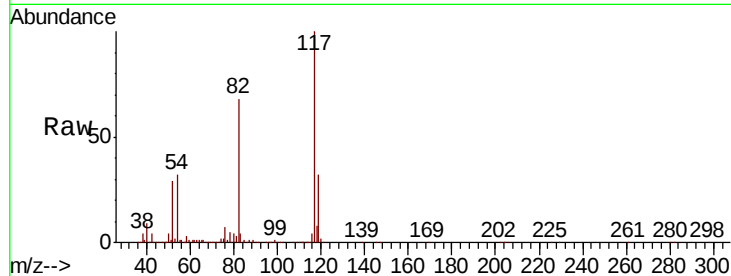




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3494
Delta R.T. -0.01 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

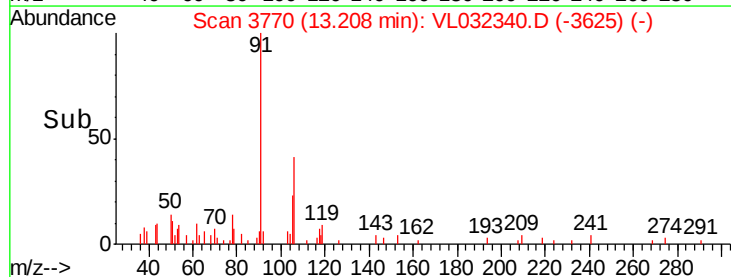
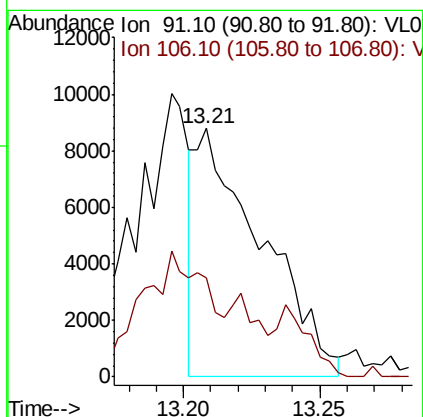
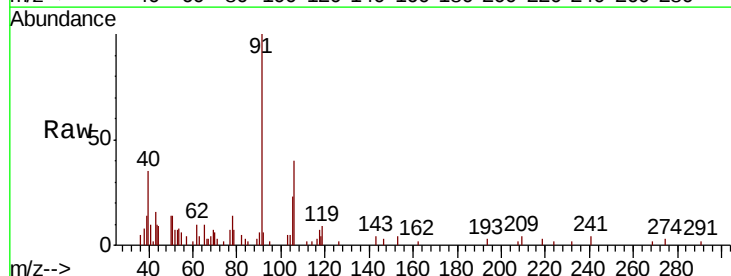
Instrument :
MSVOA_L
ClientSampleId :

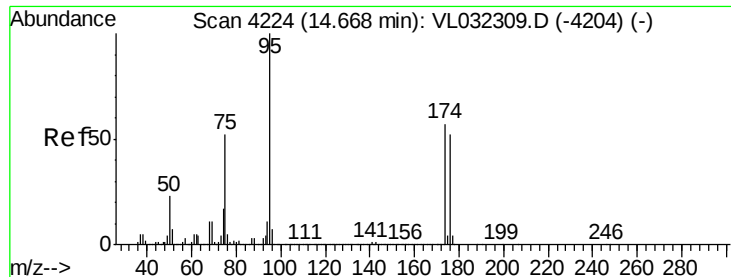
Tot Ion:117 Resp: 4423969
Ion Ratio Lower Upper
117 100
82 69.1 52.6 78.8
119 32.3 25.7 38.5



#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 13.21 min Scan# 3770
Delta R.T. -0.03 min
Lab File: VL032340.D
Acq: 2 Aug 2018 2:39

Tgt Ion: 91 Resp: 14812
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



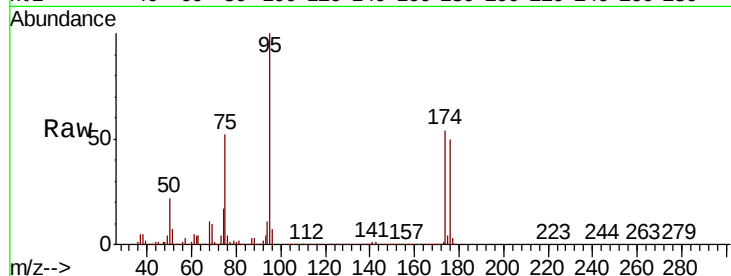


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.248 ppbv
 RT: 14.66 min Scan# 4221
 Delta R.T. -0.01 min
 Lab File: VL032340.D
 Acq: 2 Aug 2018 2:39

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3519060

Ion	Ratio	Lower	Upper
95	100		
174	56.1	45.5	68.3
175	4.1	3.3	4.9



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

