

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036662.D
 Acq On : 3 Apr 2021 2:07
 Operator : SY/AP
 Sample : M1853-01DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 03 03:00:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1281343	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3406109	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3012880	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2409898	10.04	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds					Ovalue
3) Chlorodifluoromethane	2.97	51	10638	0.044 ppbv #	77
9) Propene	3.00	41	3039	0.040 ppbv #	2
13) Ethanol	3.60	45	49835	5.483 ppbv	76
15) Acetone	3.85	43	89295	0.708 ppbv #	48
17) tert-Butyl alcohol	4.39	59	2330	0.021 ppbv	95
19) Isopropyl Alcohol	3.98	45	82324	1.187 ppbv #	89
20) Methylene Chloride	4.33	84	84820	1.436 ppbv	97
25) Ethyl Acetate	5.66	43	48592	0.162 ppbv #	77
26) Hexane	5.66	57	69646	0.501 ppbv #	47
39) 1,2-Dichloropropane	7.15	63	872414	6.846 ppbv #	24
58) Ethyl Benzene	12.93	91	12244	0.028 ppbv	95
59) m/p-Xylene	12.97	91	10607	0.028 ppbv #	32
60) o-Xylene	13.66	91	22268	0.060 ppbv #	31
72) 4-Ethyltoluene	15.82	105	19853	0.049 ppbv #	87
73) 1,3,5-Trimethylbenzene	15.97	105	22592	0.060 ppbv #	86
74) 1,2,4-Trimethylbenzene	16.74	105	49150	0.121 ppbv #	66

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

ClientSampled :

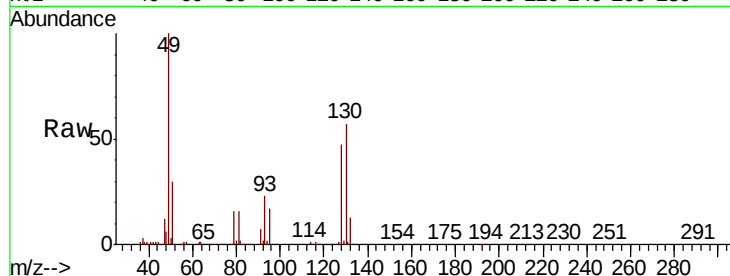
Tot Ion: 49 Resp: 1281343

Ion Ratio Lower Upper

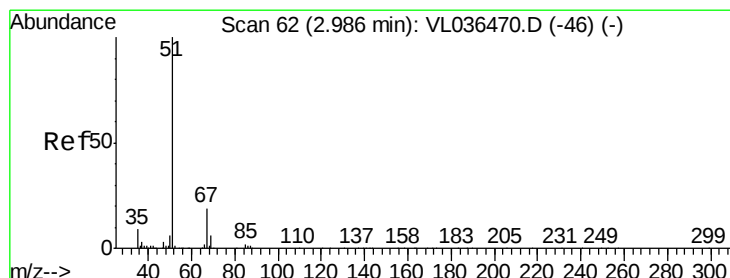
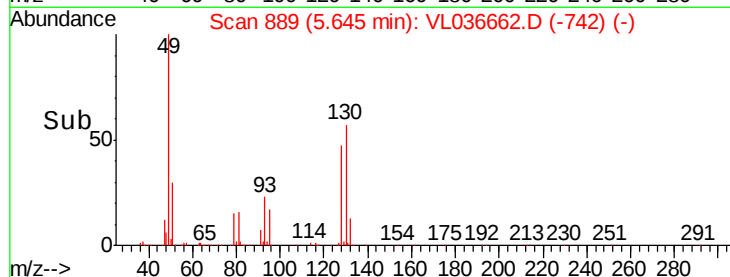
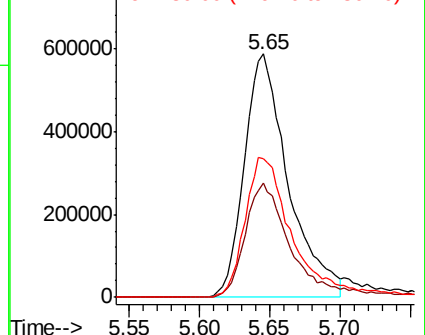
49 100

128 50.8 23.5 70.6

130 62.7 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL036662.D

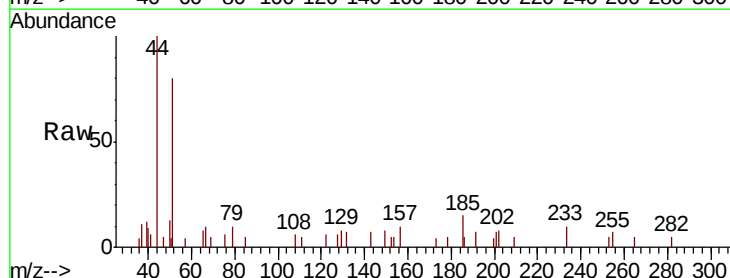
Acq: 3 Apr 2021 2:07

Tgt Ion: 51 Resp: 10638

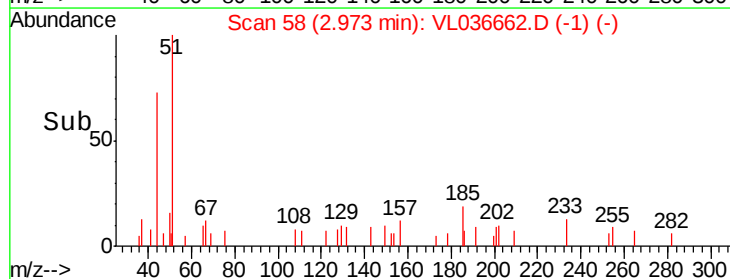
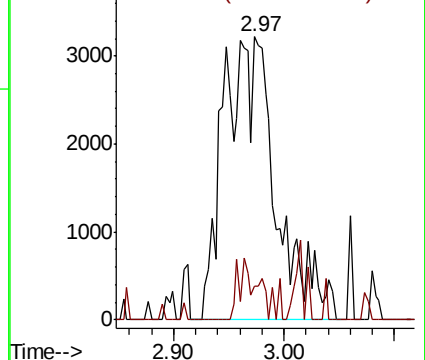
Ion Ratio Lower Upper

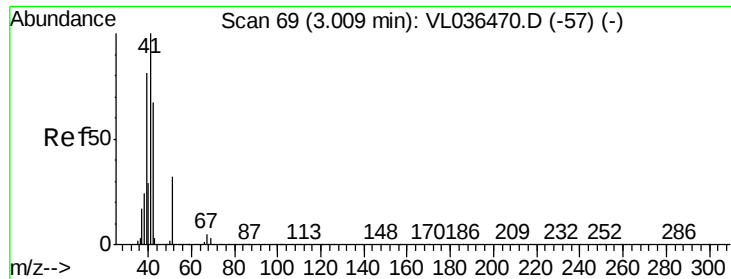
51 100

67 8.2 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.040 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

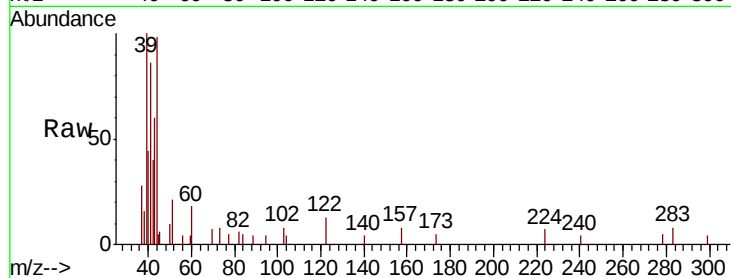
ClientSampleId :

Tot Ion: 41 Resp: 3039

Ion Ratio Lower Upper

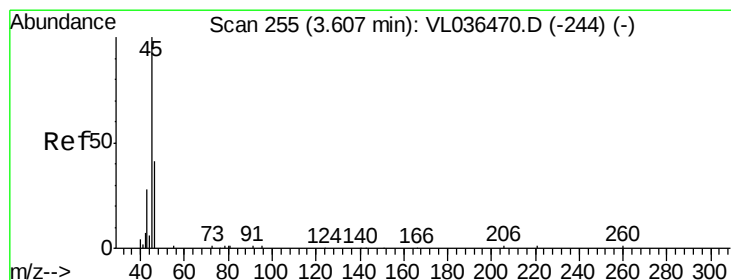
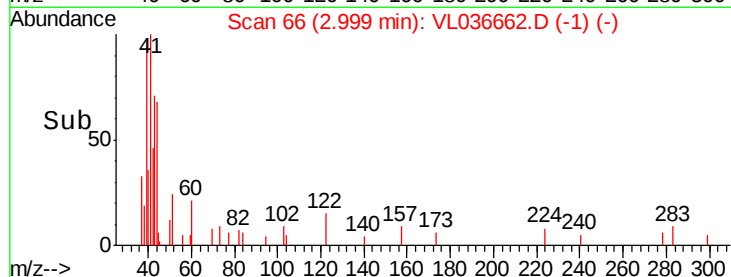
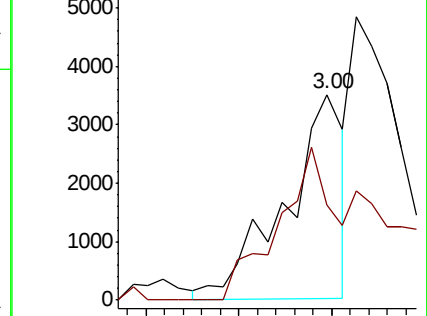
41 100

42 152.0 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 5.483 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036662.D

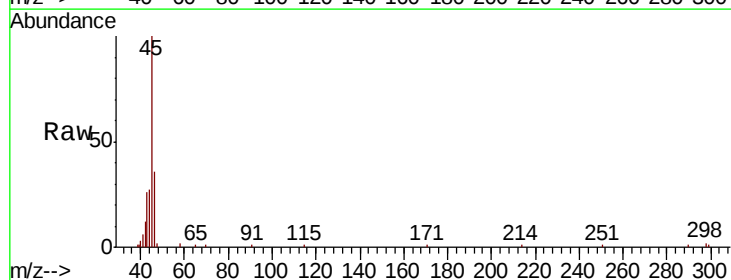
Acq: 3 Apr 2021 2:07

Tgt Ion: 45 Resp: 49835

Ion Ratio Lower Upper

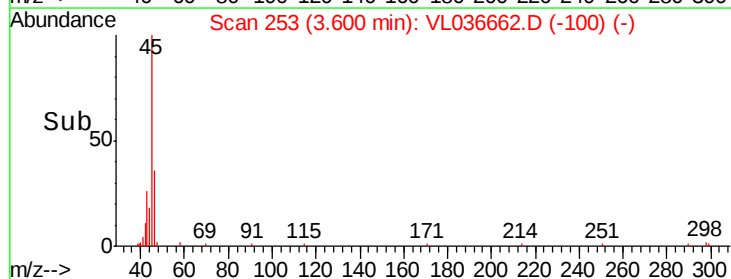
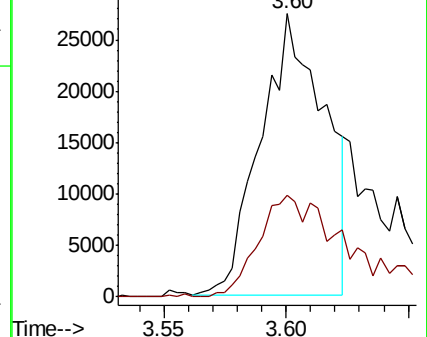
45 100

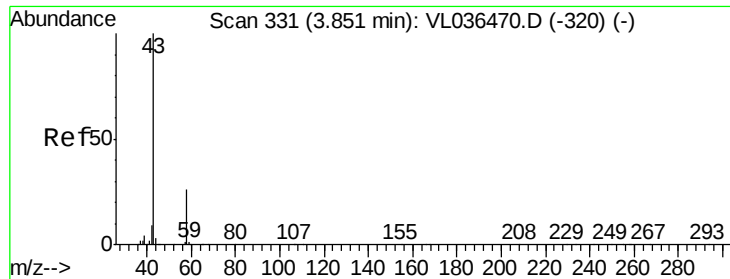
46 56.8 16.6 66.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

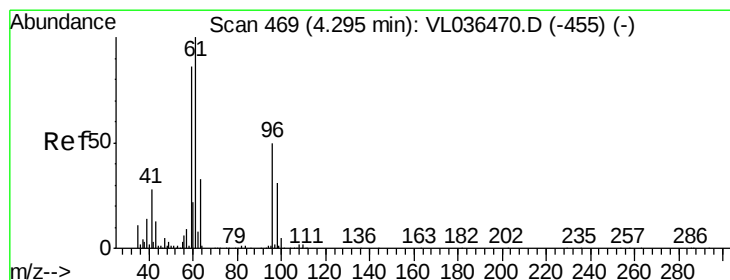
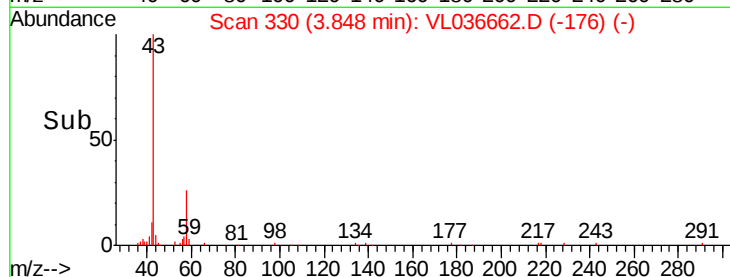
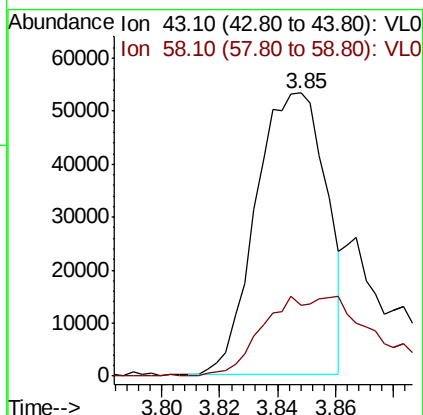
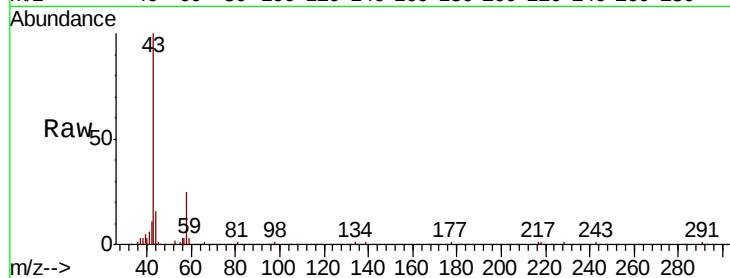




#15
Acetone
Concen: 0.708 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036662.D
Acq: 3 Apr 2021 2:07

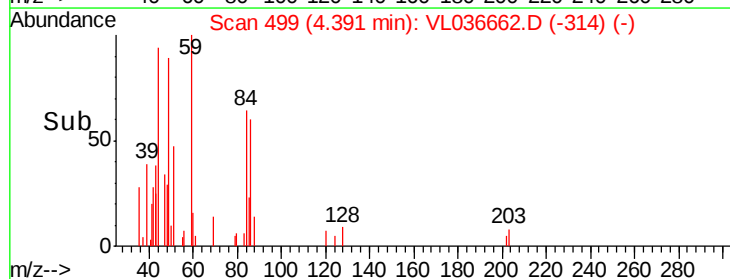
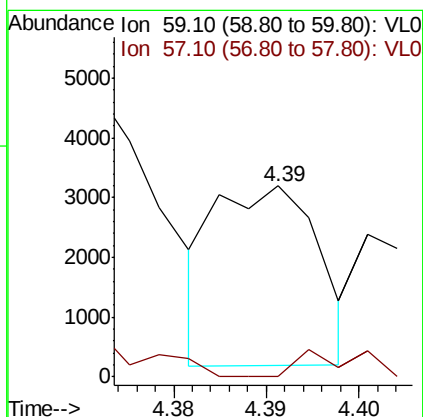
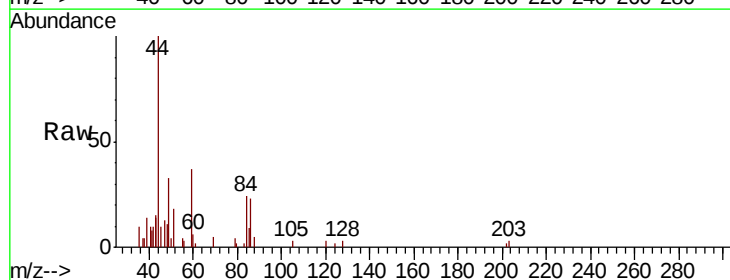
Instrument :
MSVOA_L
ClientSampleId :

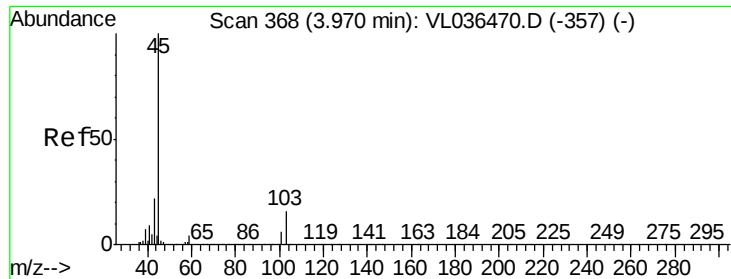
Tot Ion: 43 Resp: 89295
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#



#17
tert-Butyl alcohol
Concen: 0.021 ppbv
RT: 4.39 min Scan# 499
Delta R.T. 0.10 min
Lab File: VL036662.D
Acq: 3 Apr 2021 2:07

Tgt Ion: 59 Resp: 2330
Ion Ratio Lower Upper
59 100
57 12.4 8.6 12.8





#19

Isopropyl Alcohol

Concen: 1.187 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

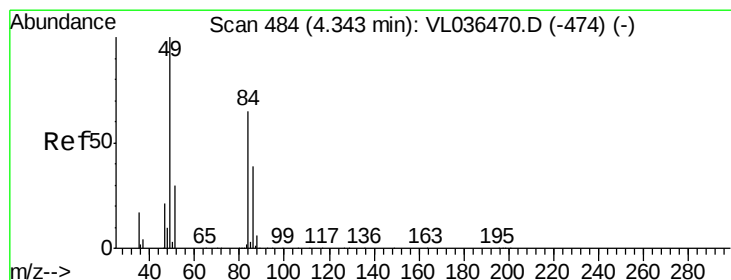
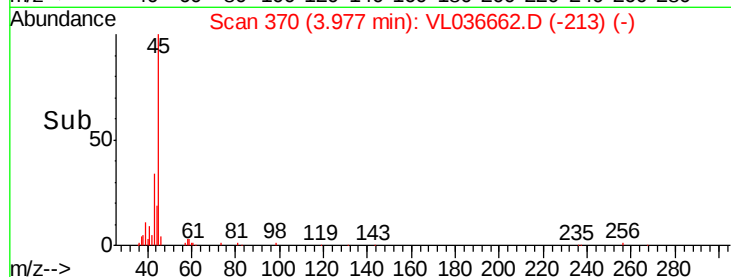
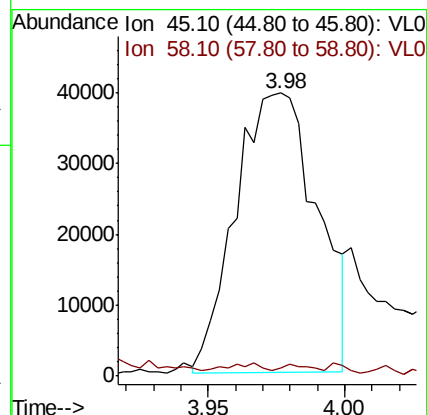
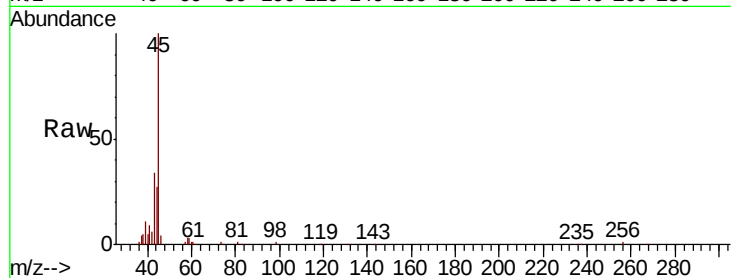
ClientSampleId :

Tot Ion: 45 Resp: 82324

Ion Ratio Lower Upper

45 100

58 7.2 2.9 4.3#



#20

Methylene Chloride

Concen: 1.436 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Tgt Ion: 84 Resp: 84820

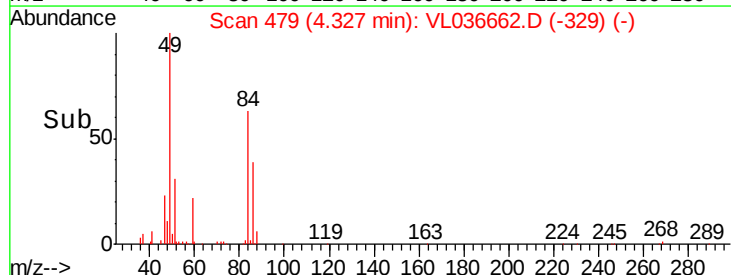
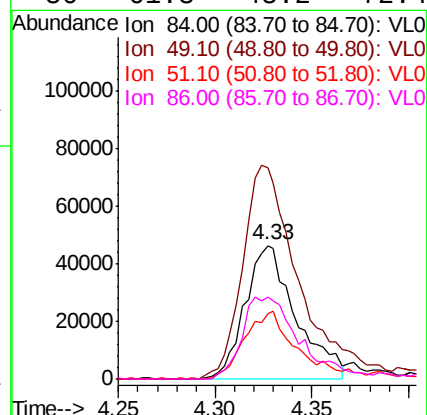
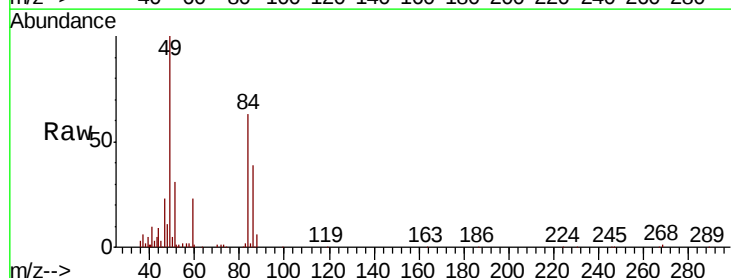
Ion Ratio Lower Upper

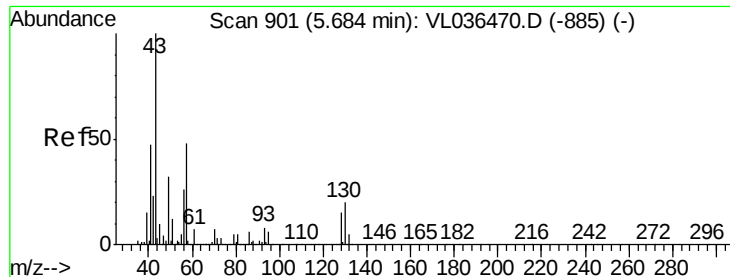
84 100

49 159.0 122.9 184.3

51 48.0 36.9 55.3

86 61.3 48.2 72.4

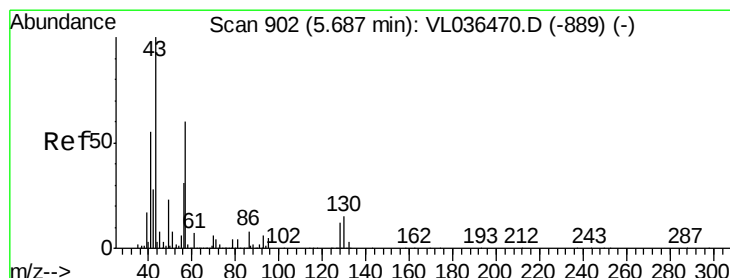
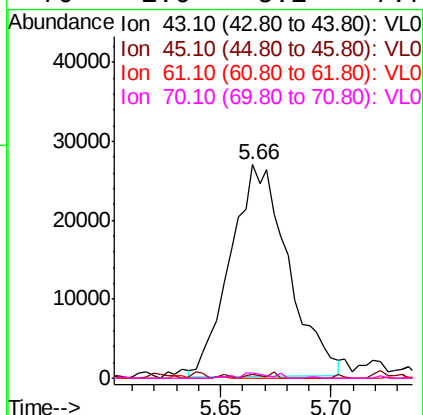
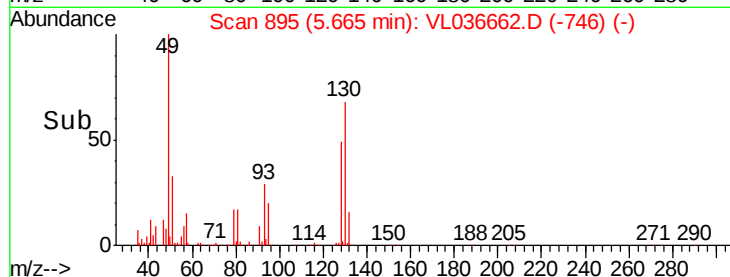
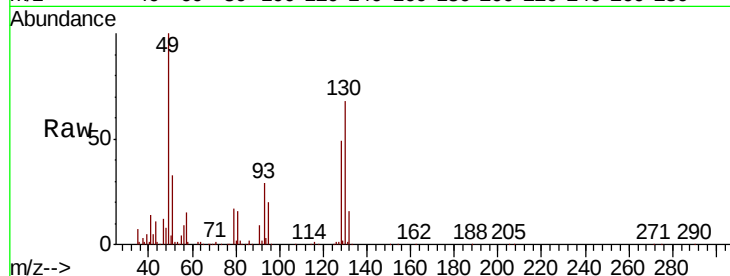




#25
Ethyl Acetate
Concen: 0.162 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036662.D
Acq: 3 Apr 2021 2:07

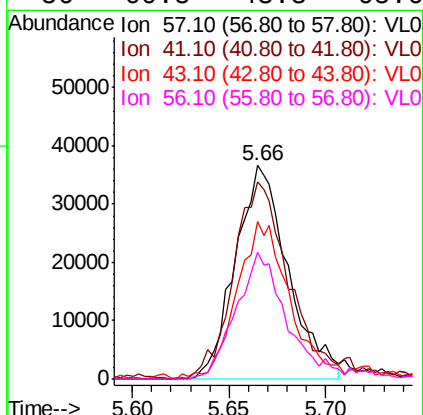
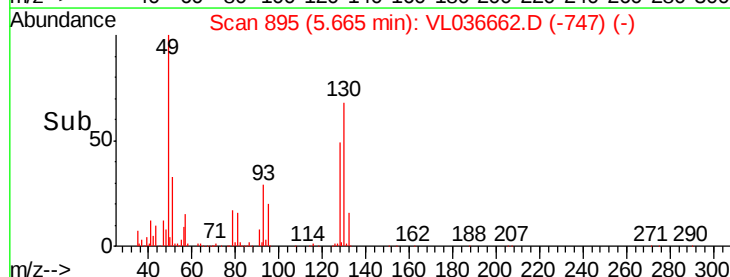
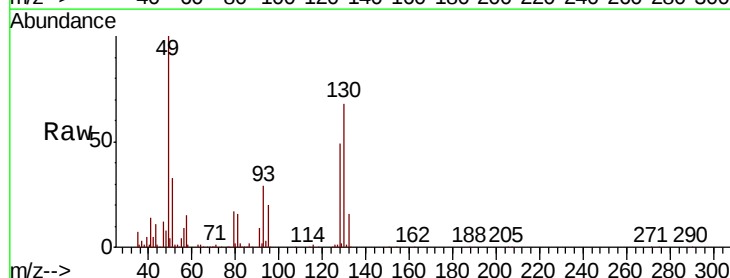
Instrument :
MSVOA_L
ClientSampleID :

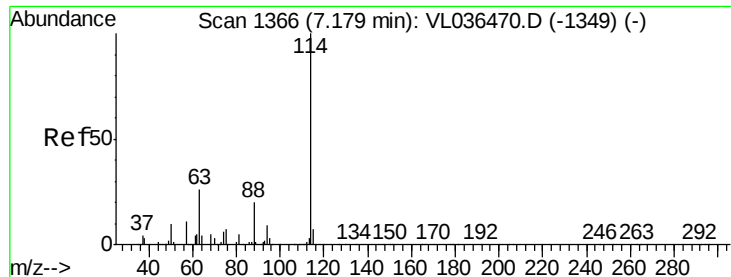
Tot Ion:	43	Resp:	48592
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.0	7.4	11.2#
70	1.6	5.1	7.7#



#26
Hexane
Concen: 0.501 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036662.D
Acq: 3 Apr 2021 2:07

Tgt Ion:	57	Resp:	69646
Ion	Ratio	Lower	Upper
57	100		
41	101.2	77.2	115.8
43	80.8	173.8	260.6#
56	60.5	43.8	65.6



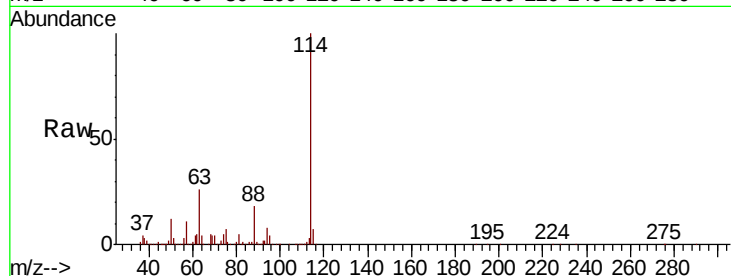


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036662.D
 Acq: 3 Apr 2021 2:07

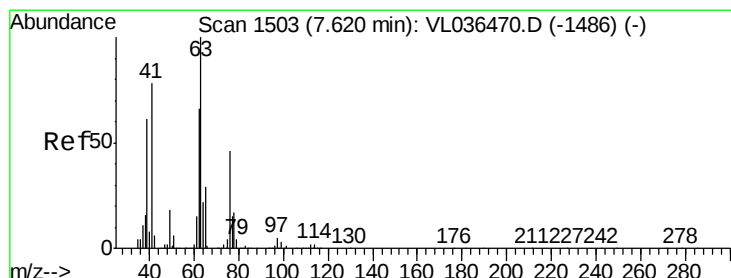
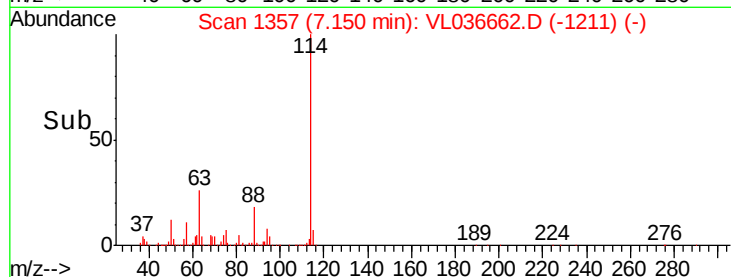
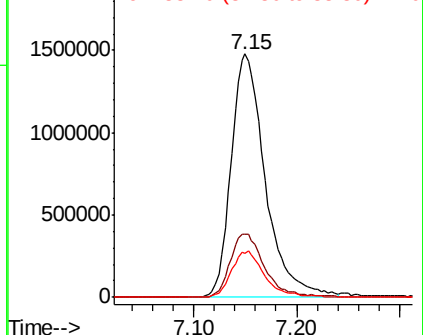
Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3406109

Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.4	33.6
88	18.9	15.4	23.0



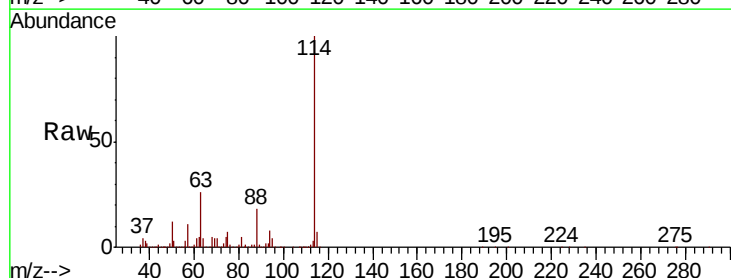
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



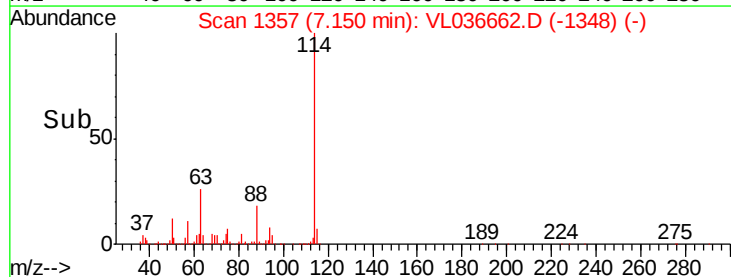
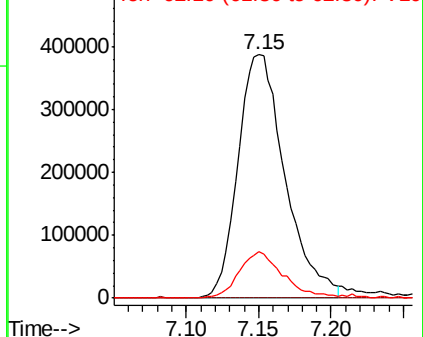
#39
 1,2-Dichloropropane
 Concen: 6.846 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.47 min
 Lab File: VL036662.D
 Acq: 3 Apr 2021 2:07

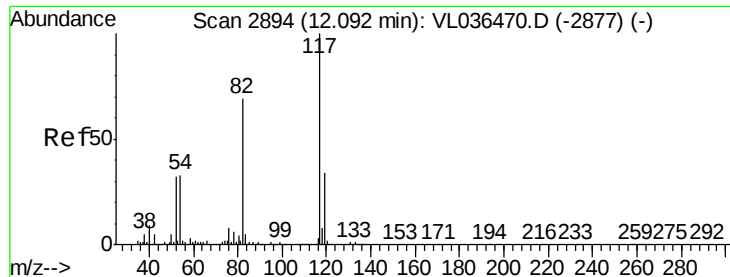
Tgt Ion: 63 Resp: 872414

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	19.0	52.8	79.2#



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





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.03 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

ClientSampleId :

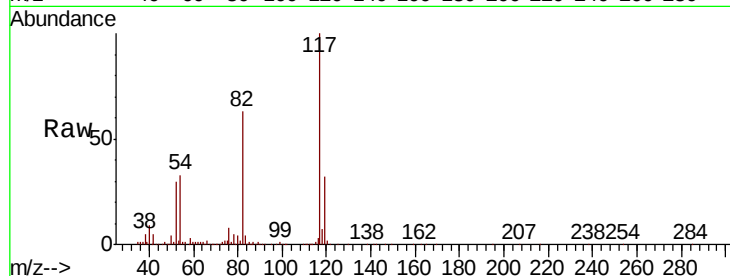
Tot Ion:117 Resp: 3012880

Ion Ratio Lower Upper

117 100

82 68.2 57.4 86.0

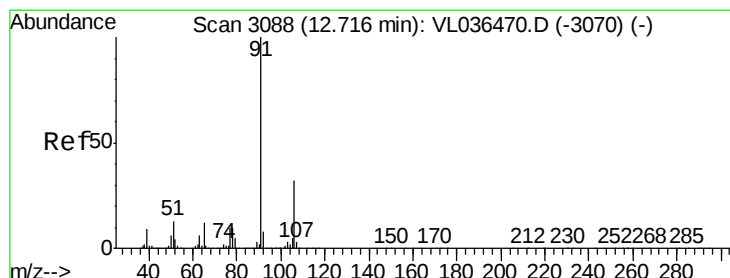
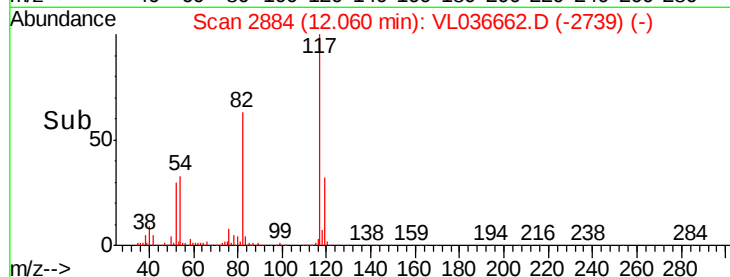
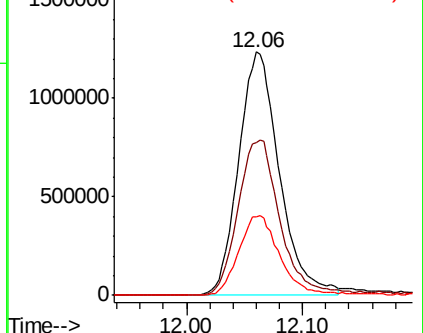
119 34.4 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.028 ppbv

RT: 12.93 min Scan# 3154

Delta R.T. 0.21 min

Lab File: VL036662.D

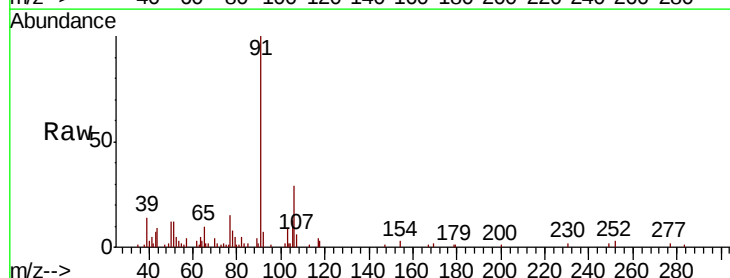
Acq: 3 Apr 2021 2:07

Tgt Ion: 91 Resp: 12244

Ion Ratio Lower Upper

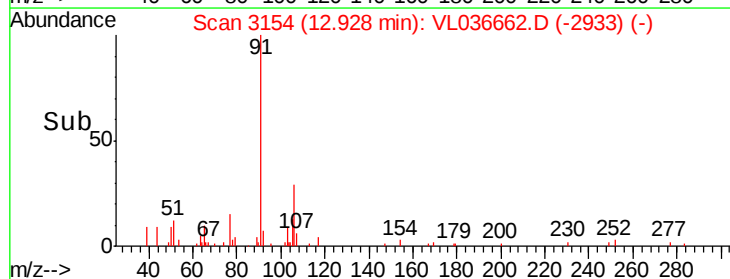
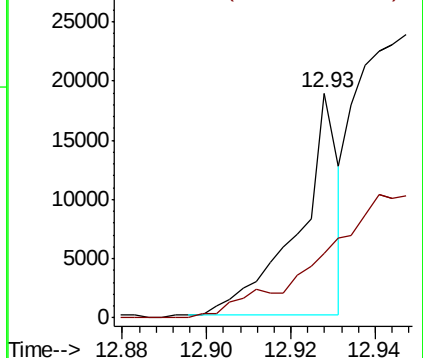
91 100

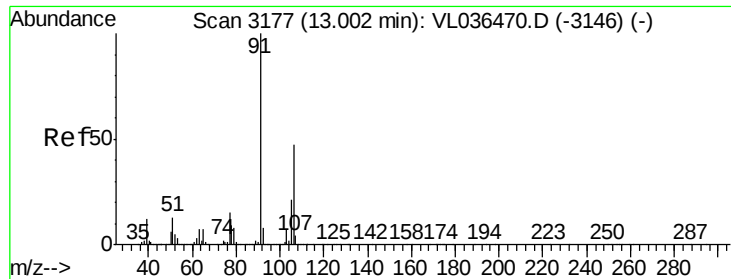
106 29.1 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.028 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

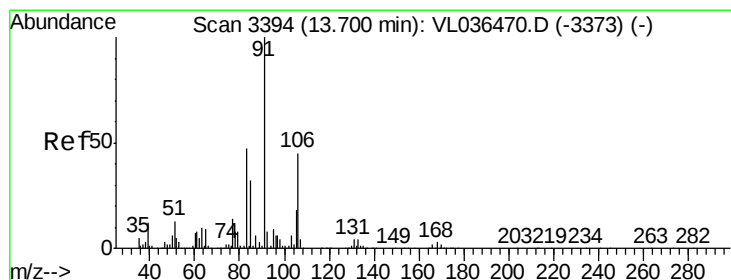
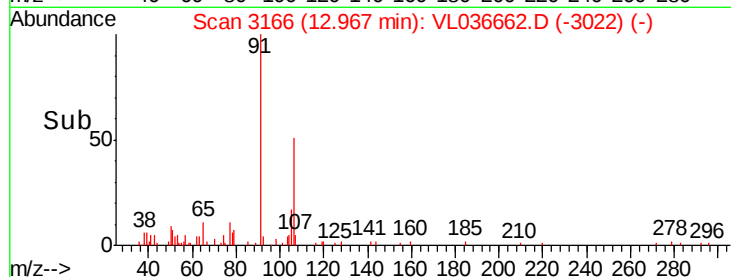
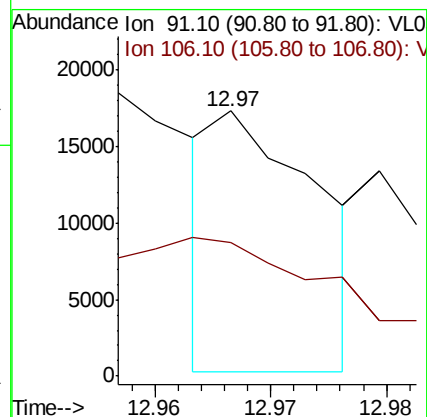
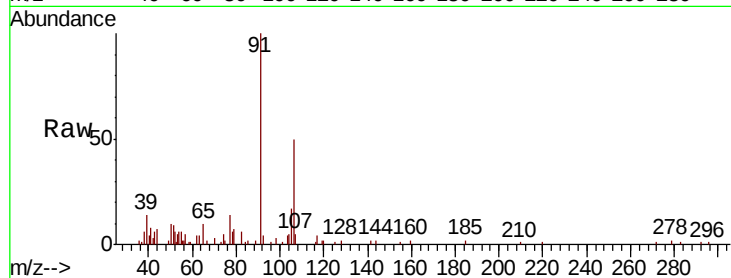
ClientSampleId :

Tot Ion: 91 Resp: 10607

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#



#60

o-Xylene

Concen: 0.060 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.04 min

Lab File: VL036662.D

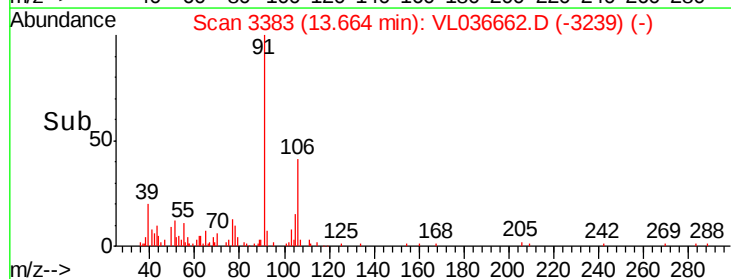
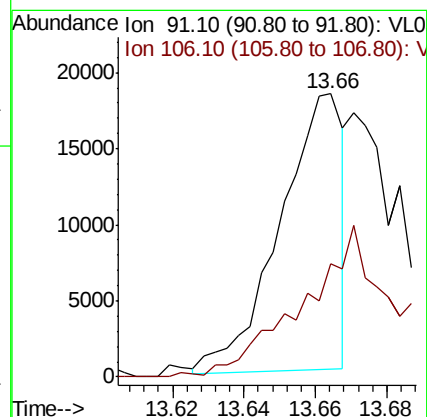
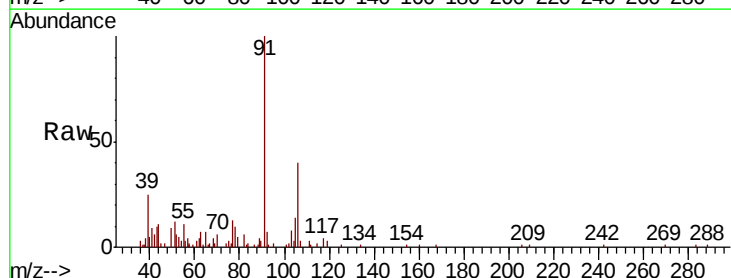
Acq: 3 Apr 2021 2:07

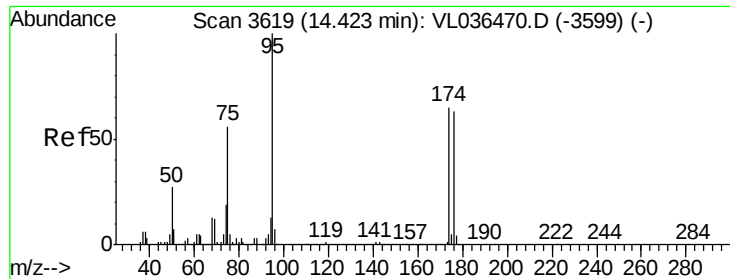
Tgt Ion: 91 Resp: 22268

Ion Ratio Lower Upper

91 100

106 0.0 22.3 66.9#

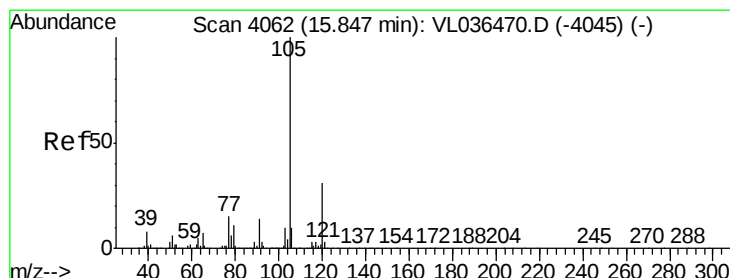
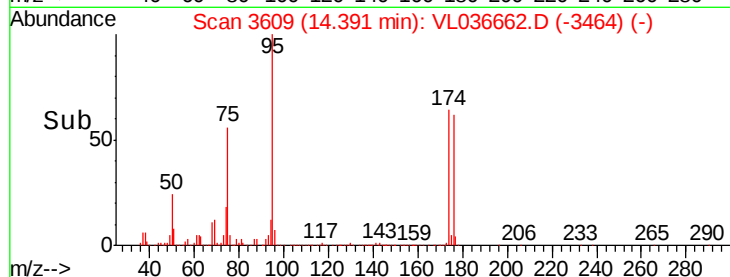
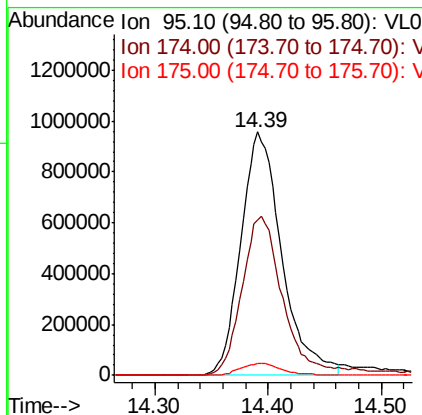
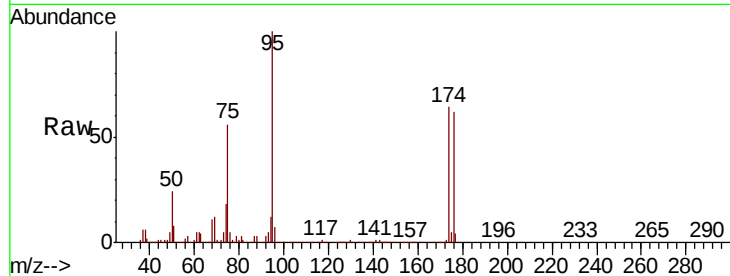




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.036 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.03 min
 Lab File: VL036662.D
 Acq: 3 Apr 2021 2:07

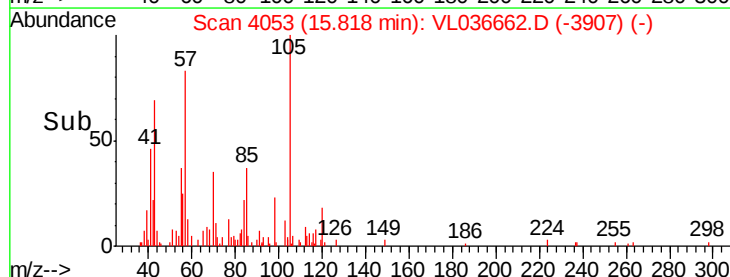
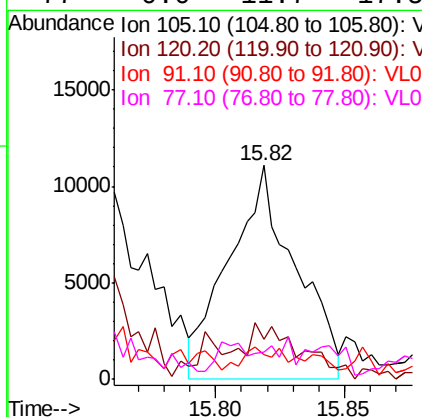
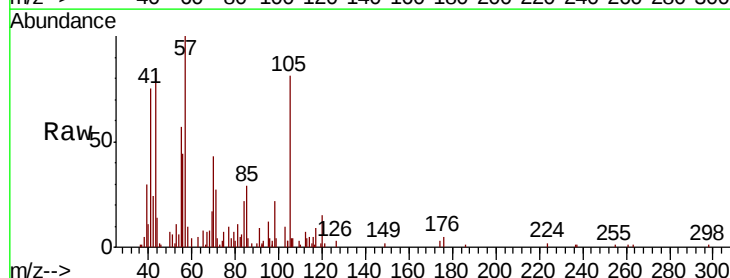
Instrument :
 MSVOA_L
 ClientSampleId :

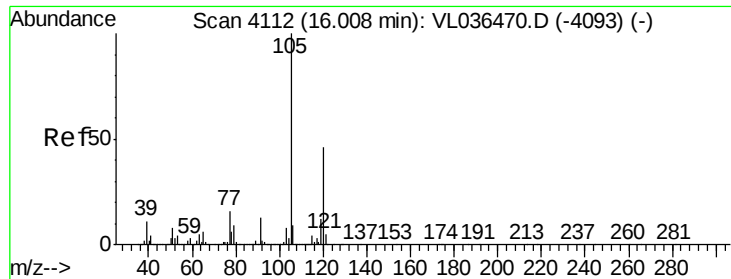
Tot Ion: 95 Resp: 2409898
 Ion Ratio Lower Upper
 95 100
 174 69.1 51.0 76.6
 175 4.9 3.9 5.9



#72
 4-Ethyltoluene
 Concen: 0.049 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. -0.03 min
 Lab File: VL036662.D
 Acq: 3 Apr 2021 2:07

Tgt Ion: 105 Resp: 19853
 Ion Ratio Lower Upper
 105 100
 120 31.6 24.0 36.0
 91 9.9 11.0 16.4#
 77 0.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.060 ppbv

RT: 15.97 min Scan# 4100

Delta R.T. -0.04 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Instrument :

MSVOA_L

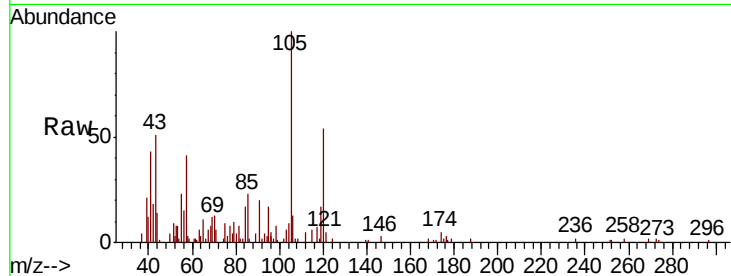
ClientSampleId :

Tot Ion:105 Resp: 22592

Ion Ratio Lower Upper

105 100

120 54.9 36.6 54.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

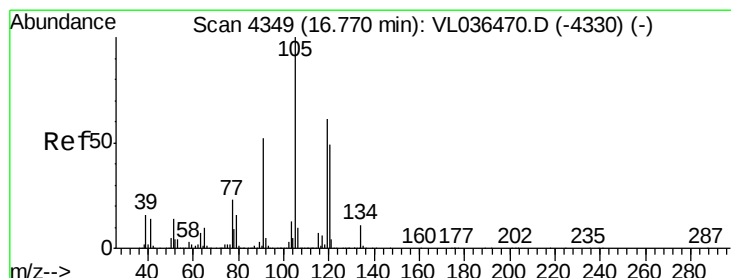
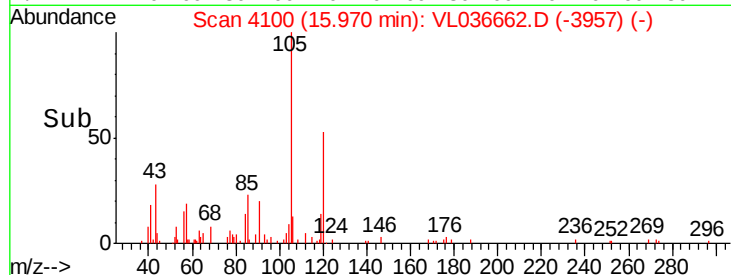
15.97

10000

5000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.121 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.03 min

Lab File: VL036662.D

Acq: 3 Apr 2021 2:07

Tgt Ion:105 Resp: 49150

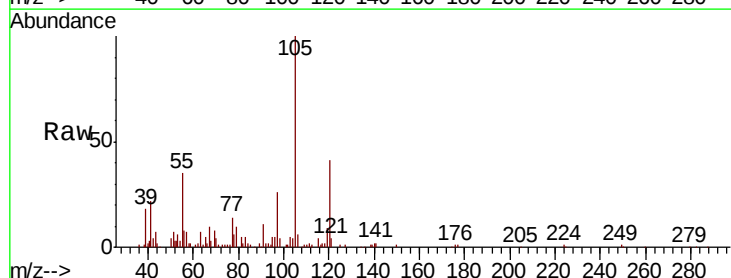
Ion Ratio Lower Upper

105 100

120 41.8 39.2 58.8

91 10.1 42.6 64.0#

77 12.4 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

60000

40000

20000

0

Time-->

