

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037110.D
 Acq On : 2 Jun 2021 20:30
 Operator : SY/AP
 Sample : M2548-12 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 03 03:22:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1364165	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4019287	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3532225	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2735844	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

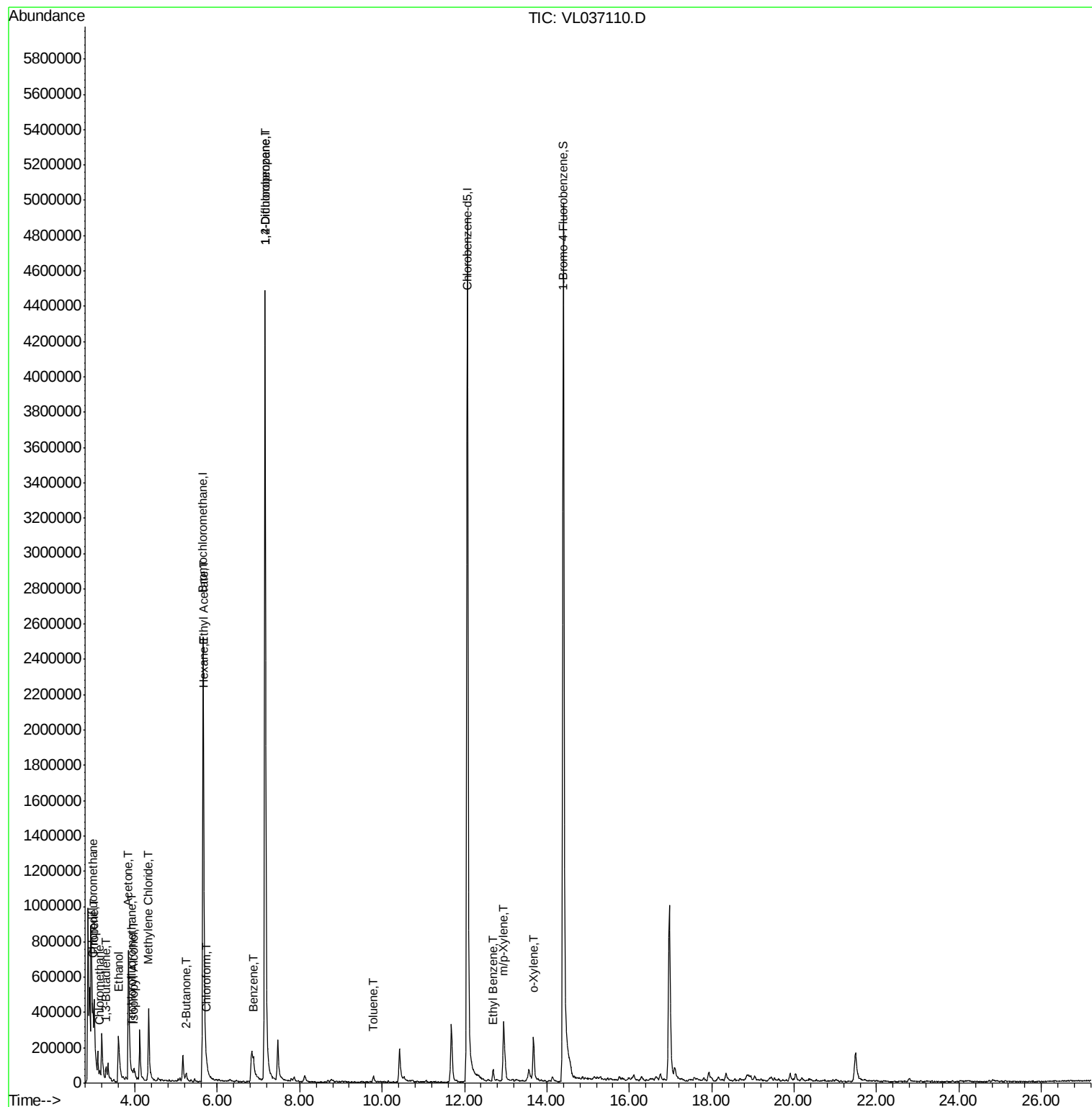
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.98	51	61733	0.247 ppbv	# 66
4) Chloromethane	3.13	50	9510	0.112 ppbv	# 86
9) Propene	3.00	41	37114	0.415 ppbv	# 35
11) Trichlorofluoromethane	3.94	101	15099	0.070 ppbv	86
13) Ethanol	3.60	45	420012	35.176 ppbv	95
15) Acetone	3.84	43	1078341	7.717 ppbv	99
16) 1,3-Butadiene	3.31	39	10626	0.122 ppbv	88
19) Isopropyl Alcohol	3.97	45	55608	0.740 ppbv	# 1
20) Methylene Chloride	4.33	84	178739	2.386 ppbv	98
25) Ethyl Acetate	5.67	43	87912	0.262 ppbv	# 77
26) Hexane	5.67	57	123283	0.719 ppbv	# 43
29) Chloroform	5.74	83	10600	0.044 ppbv	99
34) 2-Butanone	5.24	43	23987	0.164 ppbv	# 52
36) Benzene	6.88	78	24281	0.070 ppbv	# 92
39) 1,2-Dichloropropane	7.16	63	940967	7.056 ppbv	# 25
53) Toluene	9.78	91	28130	0.068 ppbv	98
58) Ethyl Benzene	12.69	91	58415	0.117 ppbv	99
59) m/p-Xylene	12.96	91	167518	0.407 ppbv	# 30
60) o-Xylene	13.67	91	192634	0.490 ppbv	97

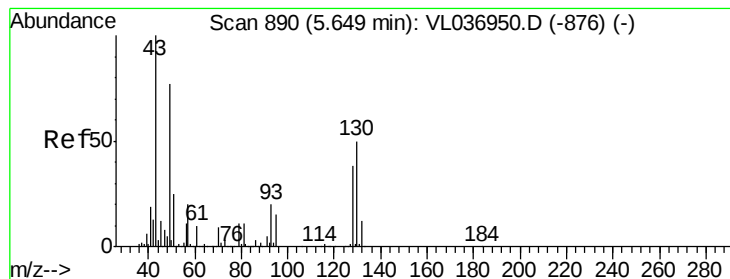
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

ClientSampleId :

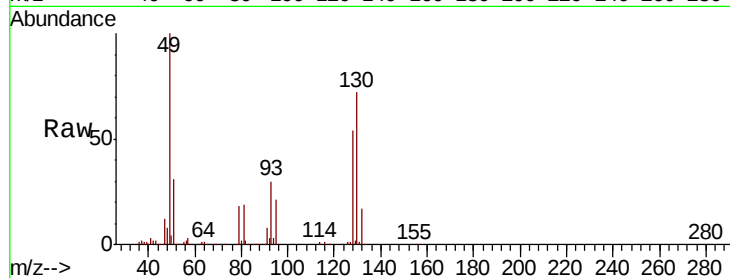
Tot Ion: 49 Resp: 1364165

Ion Ratio Lower Upper

49 100

128 57.1 26.9 80.7

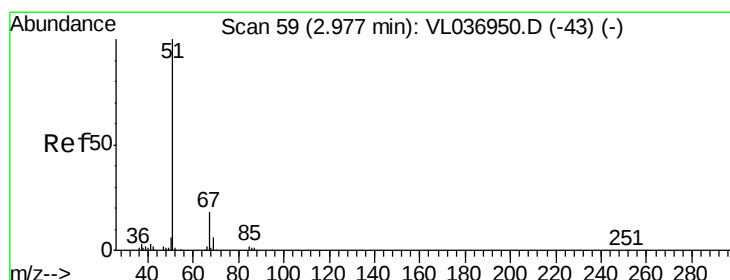
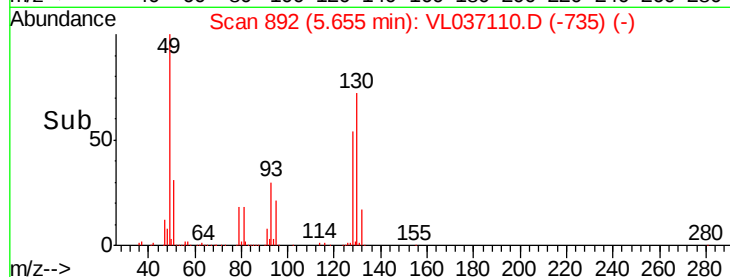
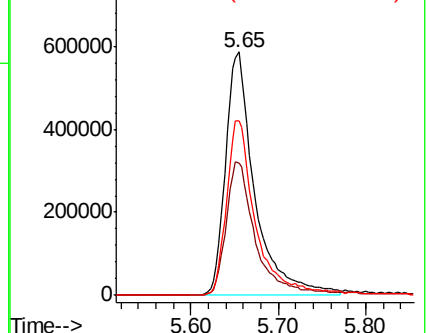
130 73.1 33.8 101.4



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: 0.247 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037110.D

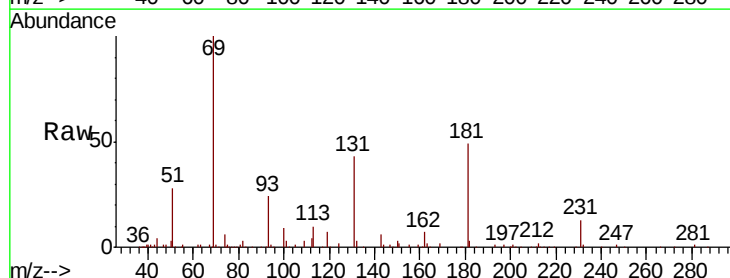
Acq: 2 Jun 2021 20:30

Tgt Ion: 51 Resp: 61733

Ion Ratio Lower Upper

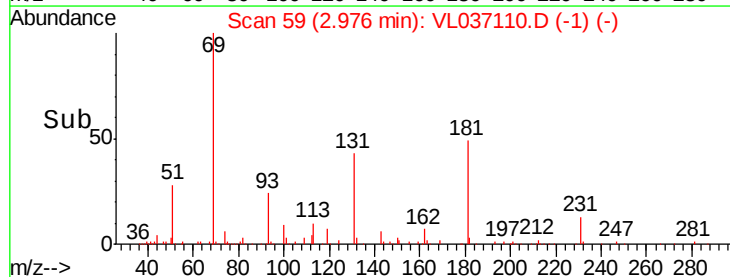
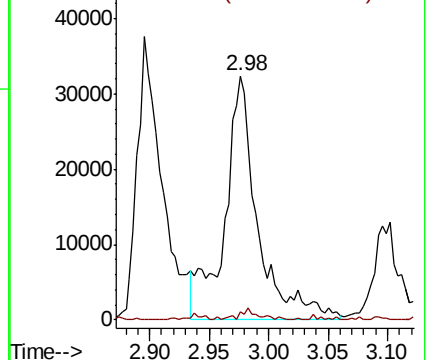
51 100

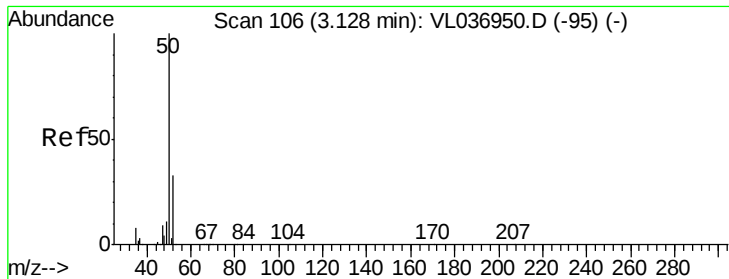
67 2.9 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.112 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

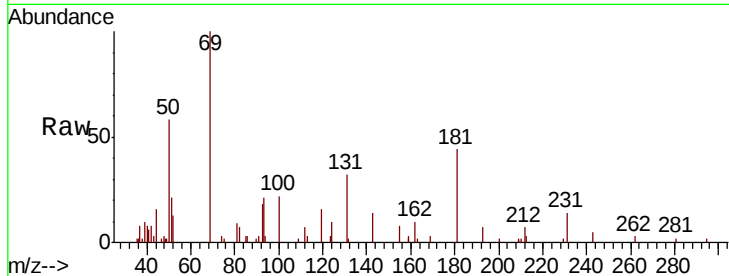
ClientSampleId :

Tot Ion: 50 Resp: 9510

Ion Ratio Lower Upper

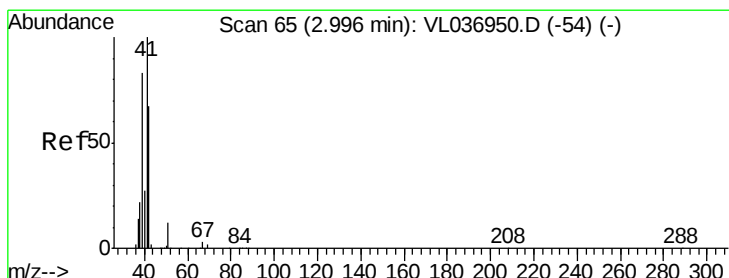
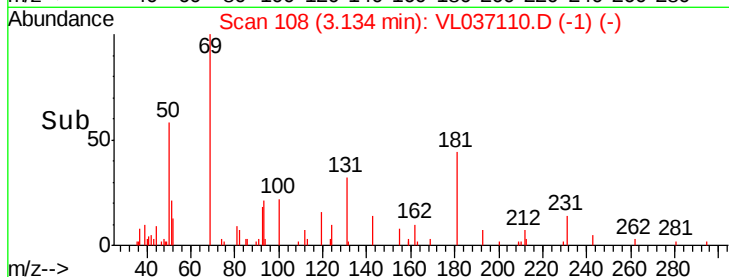
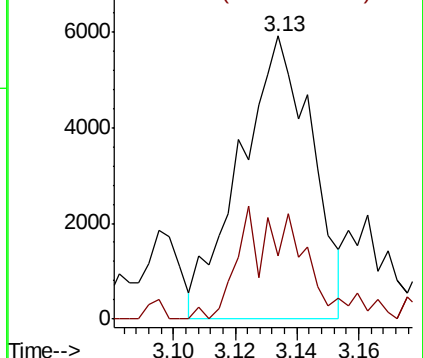
50 100

52 24.5 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.415 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL037110.D

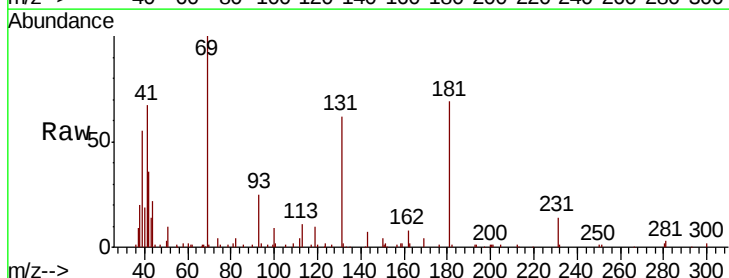
Acq: 2 Jun 2021 20:30

Tgt Ion: 41 Resp: 37114

Ion Ratio Lower Upper

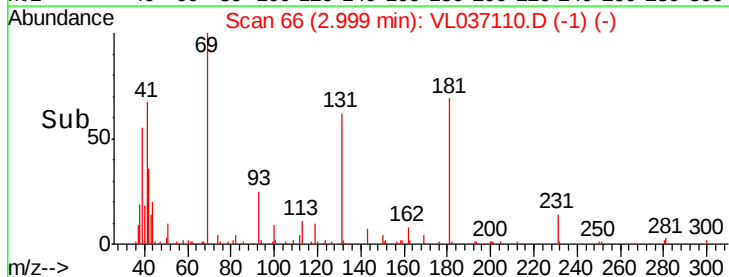
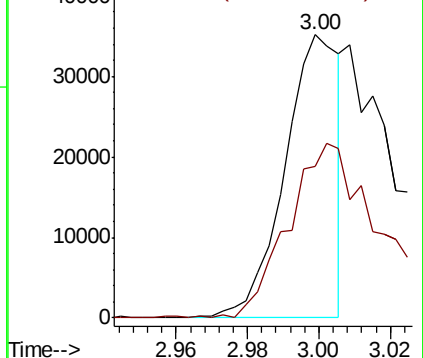
41 100

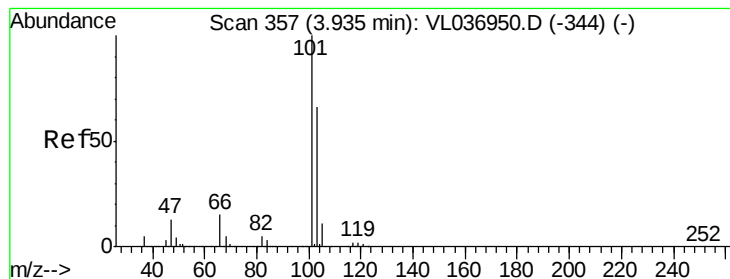
42 119.3 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.070 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

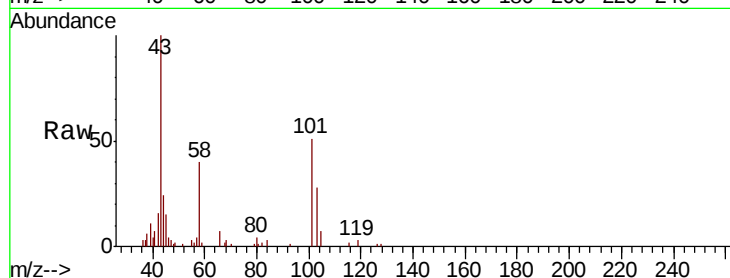
ClientSampleId :

Tot Ion:101 Resp: 15099

Ion Ratio Lower Upper

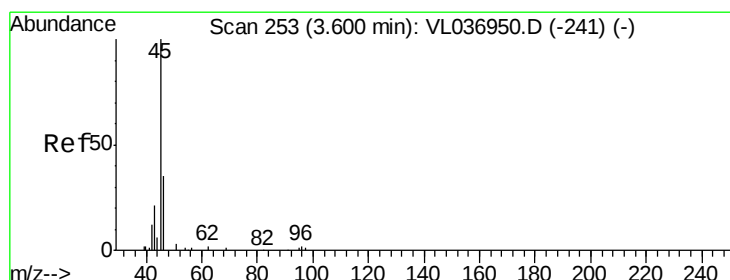
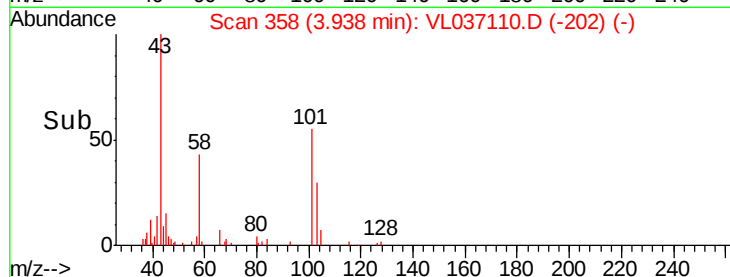
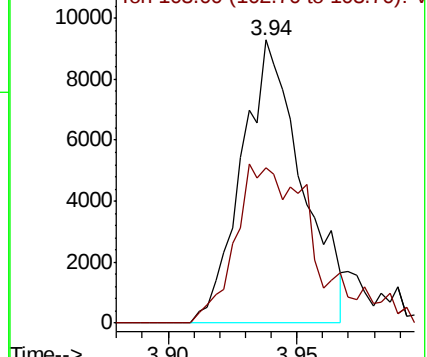
101 100

103 55.0 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 35.176 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL037110.D

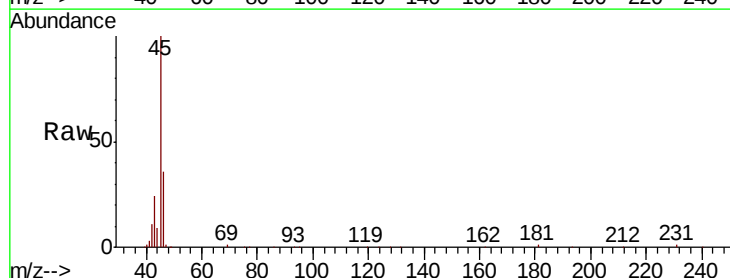
Acq: 2 Jun 2021 20:30

Tgt Ion: 45 Resp: 420012

Ion Ratio Lower Upper

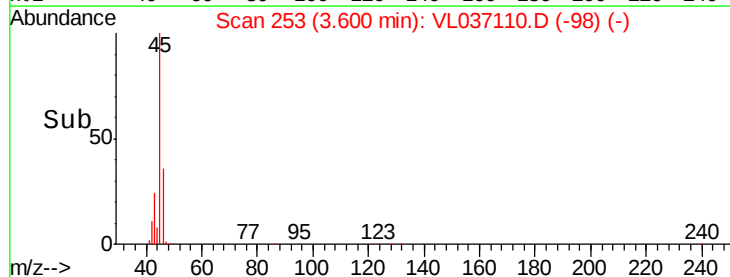
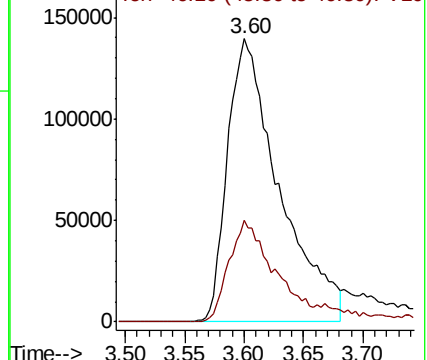
45 100

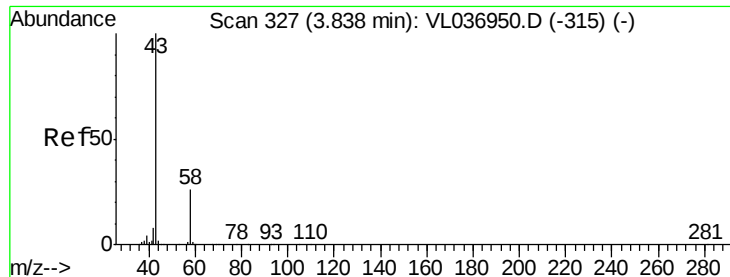
46 37.7 16.3 65.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.717 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

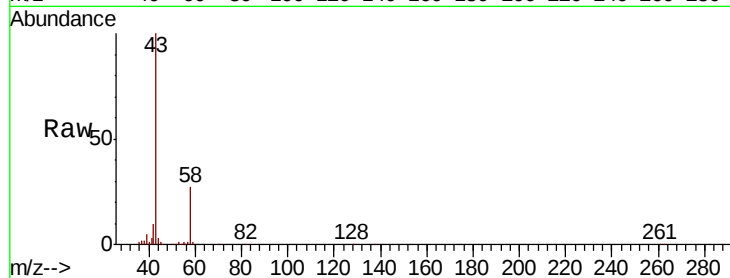
ClientSampleId :

Tot Ion: 43 Resp: 1078341

Ion Ratio Lower Upper

43 100

58 29.4 24.0 36.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

500000

400000

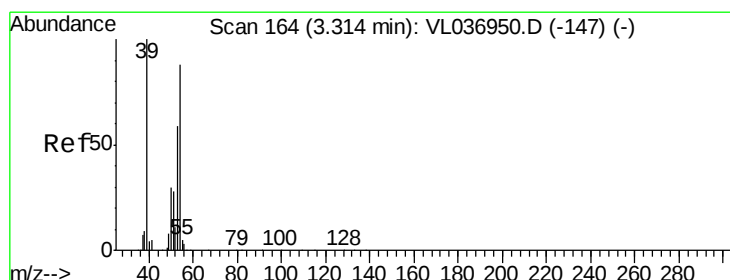
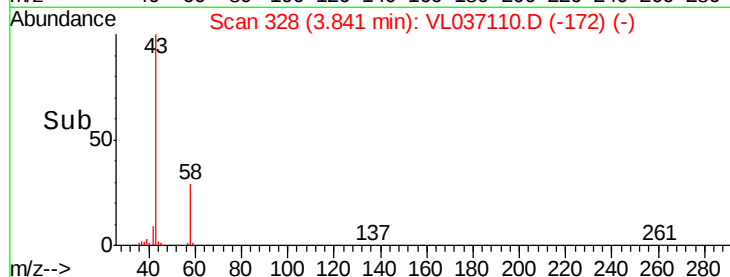
300000

200000

100000

0

Time--> 3.75 3.80 3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 0.122 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL037110.D

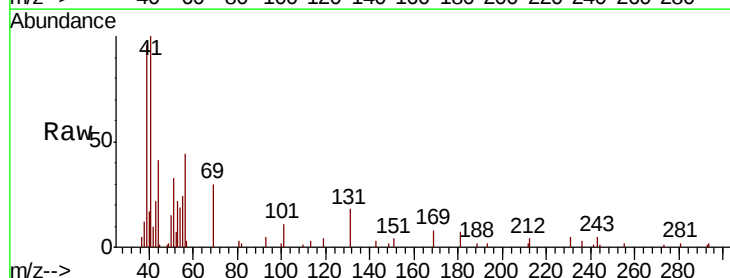
Acq: 2 Jun 2021 20:30

Tgt Ion: 39 Resp: 10626

Ion Ratio Lower Upper

39 100

54 68.7 63.2 94.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

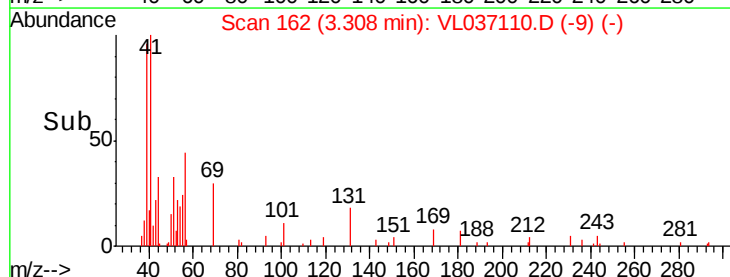
15000

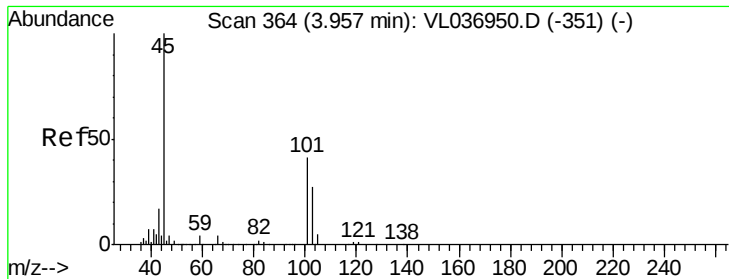
10000

5000

0

Time--> 3.29 3.30 3.31 3.32



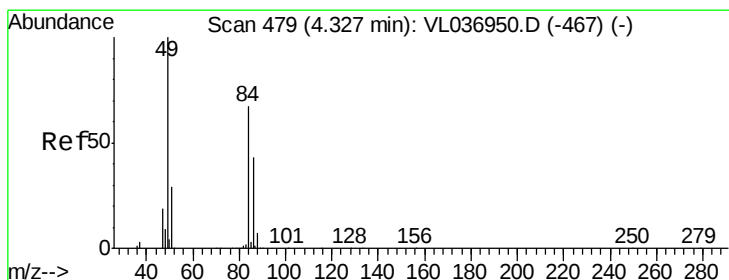
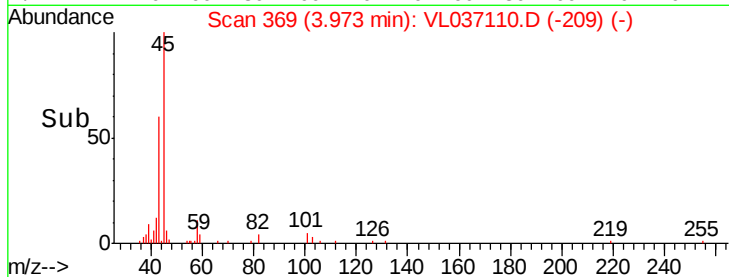
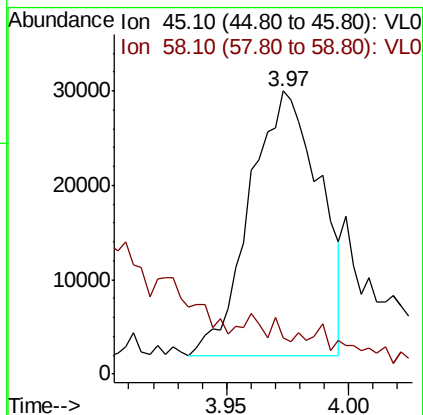
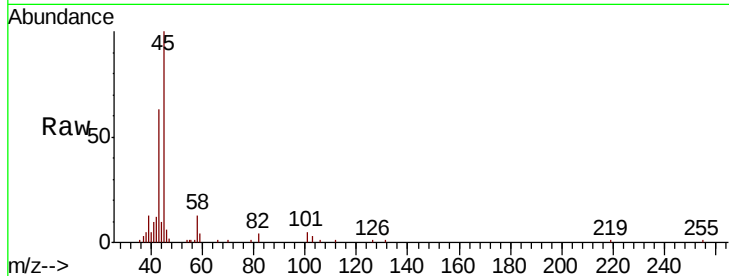


#19

Isopropyl Alcohol
 Concen: 0.740 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL037110.D
 Acq: 2 Jun 2021 20:30

Instrument :
 MSVOA_L
 ClientSampleId :

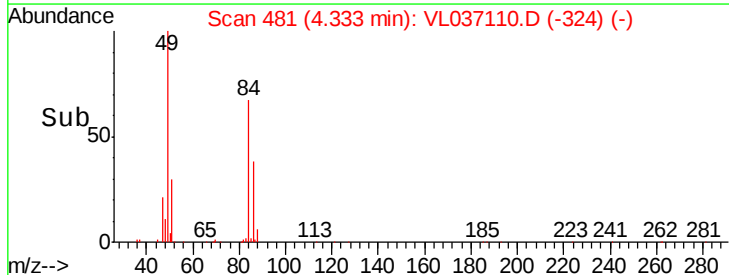
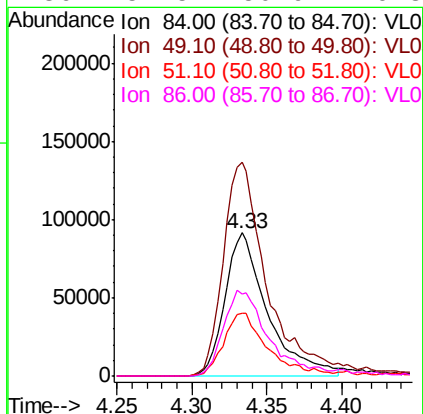
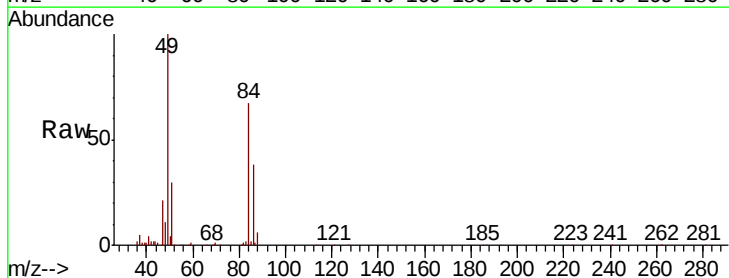
Tot Ion: 45 Resp: 55608
 Ion Ratio Lower Upper
 45 100
 58 603.1 37.2 55.8#

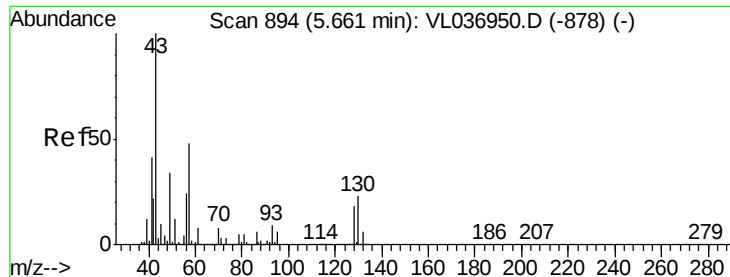


#20

Methylene Chloride
 Concen: 2.386 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.01 min
 Lab File: VL037110.D
 Acq: 2 Jun 2021 20:30

Tgt Ion: 84 Resp: 178739
 Ion Ratio Lower Upper
 84 100
 49 149.8 119.8 179.6
 51 44.3 35.1 52.7
 86 57.5 50.9 76.3





#25

Ethyl Acetate

Concen: 0.262 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 87912

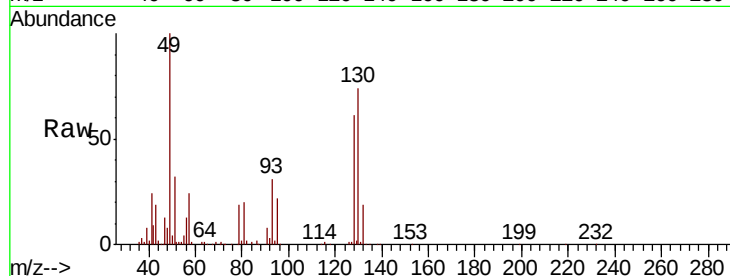
Ion Ratio Lower Upper

43 100

45 0.7 7.8 11.8#

61 0.0 7.8 11.8#

70 2.0 5.6 8.4#



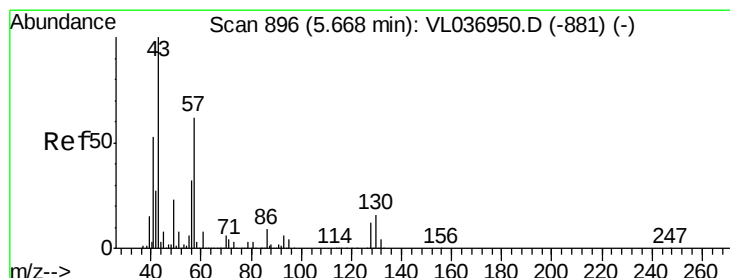
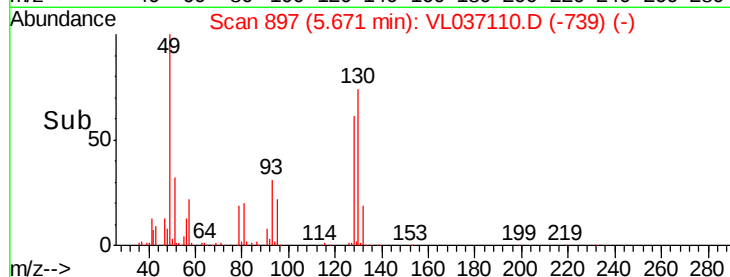
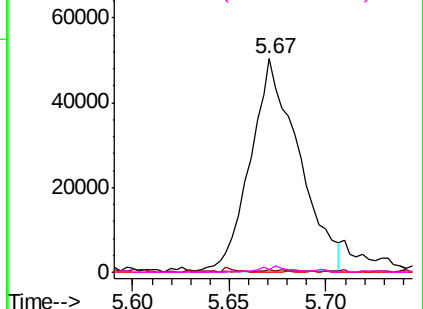
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.719 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Tgt Ion: 57 Resp: 123283

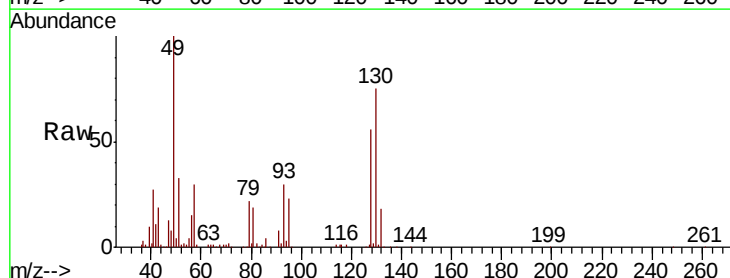
Ion Ratio Lower Upper

57 100

41 108.1 70.5 105.7#

43 78.6 165.8 248.8#

56 62.5 42.2 63.4



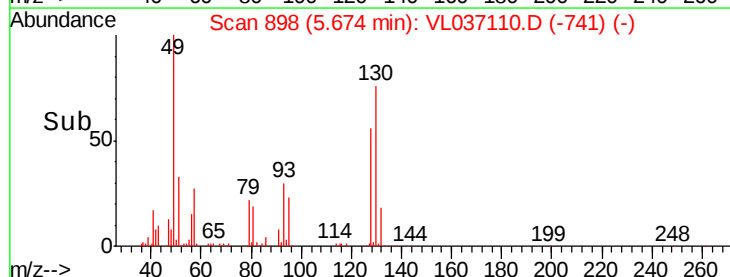
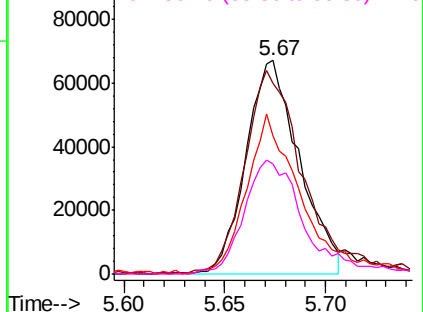
Abundance

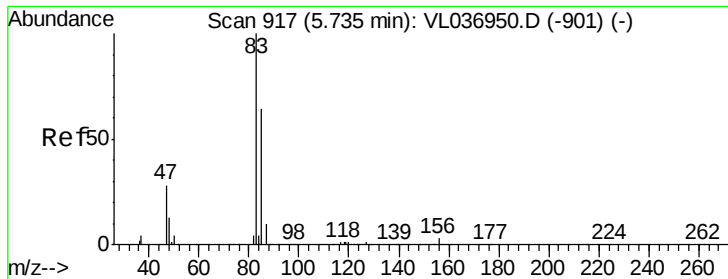
Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.044 ppbv

RT: 5.74 min Scan# 919

Delta R.T. 0.01 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

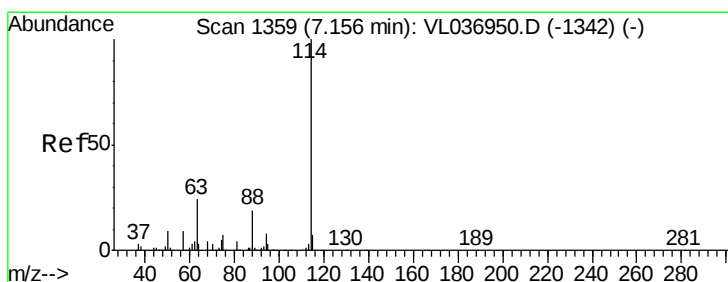
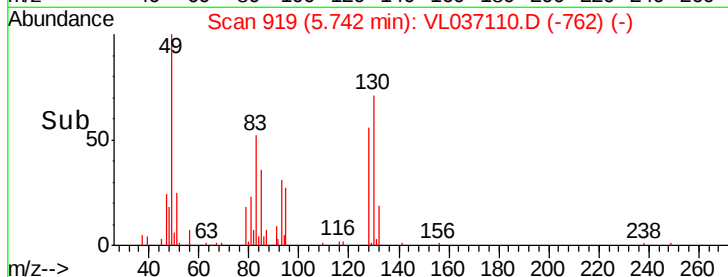
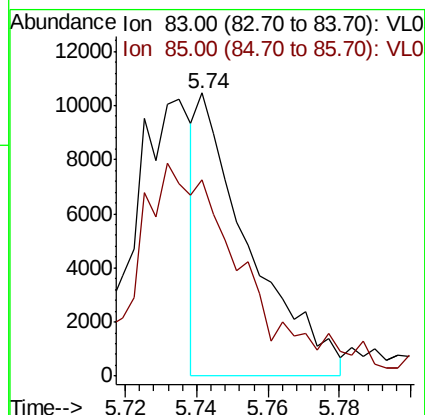
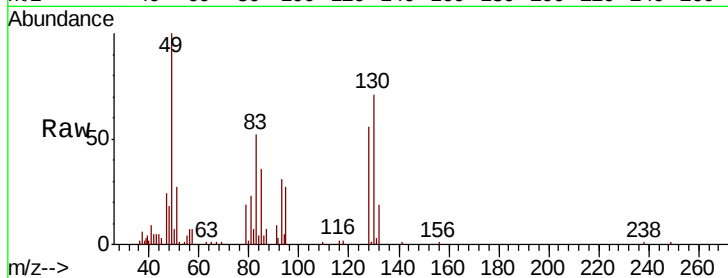
ClientSampled :

Tot Ion: 83 Resp: 10600

Ion Ratio Lower Upper

83 100

85 65.0 51.1 76.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

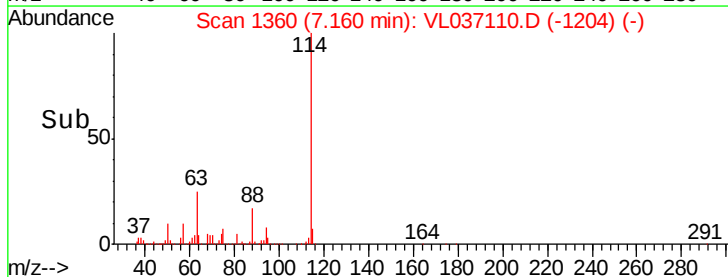
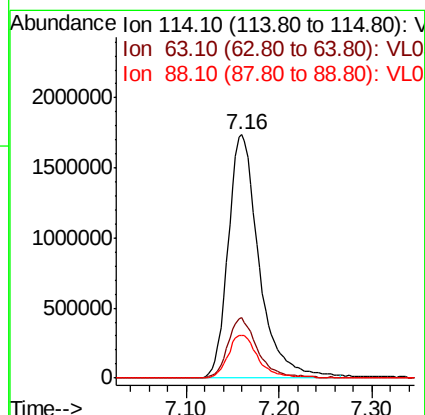
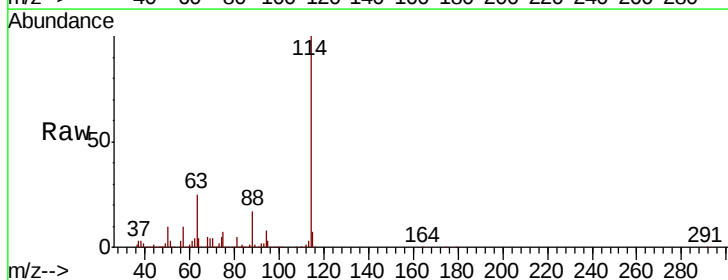
Tgt Ion: 114 Resp: 4019287

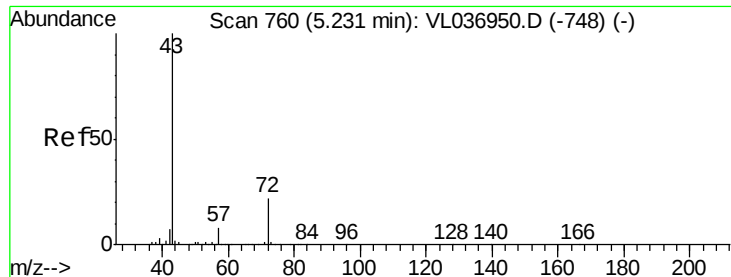
Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

88 17.7 14.6 21.8

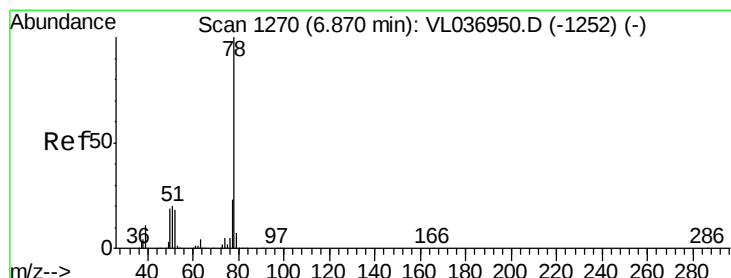
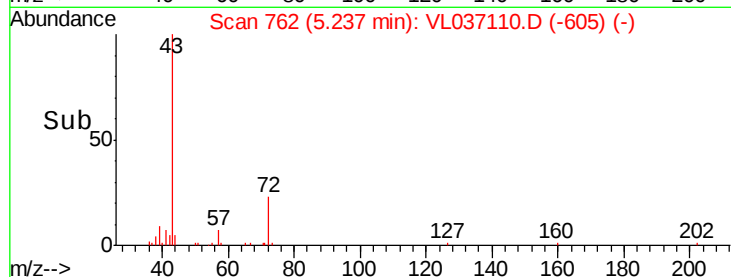
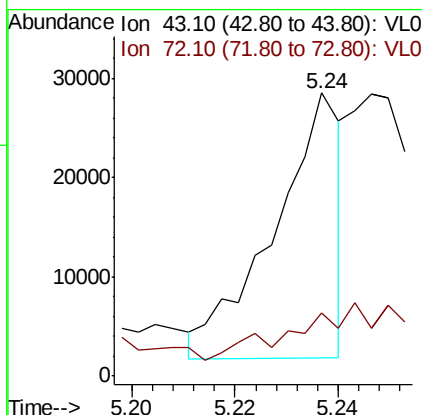
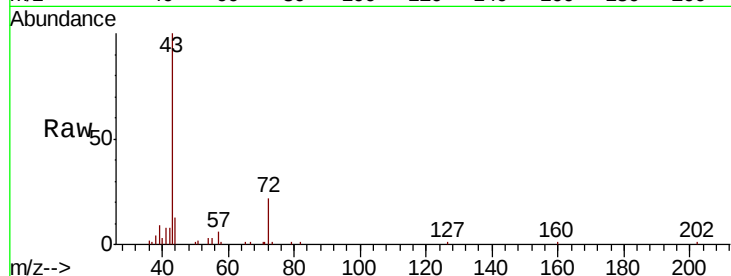




#34
2-Butanone
Concen: 0.164 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

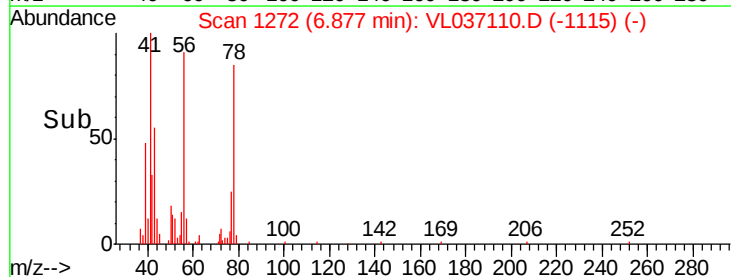
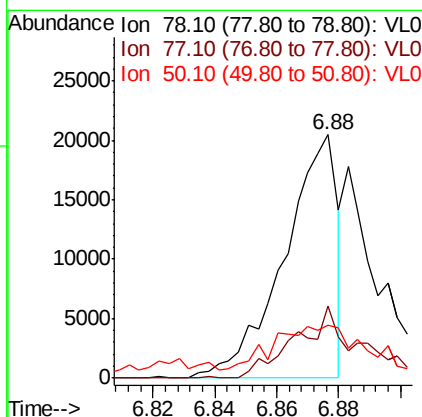
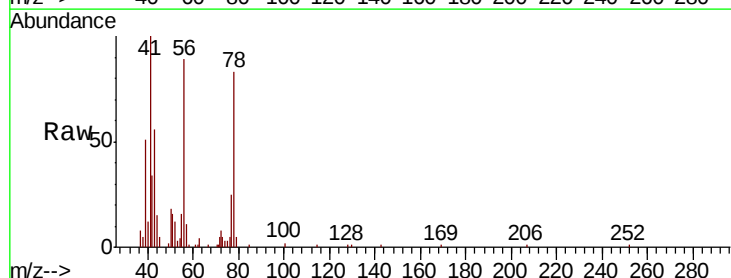
Instrument :
MSVOA_L
ClientSampleId :

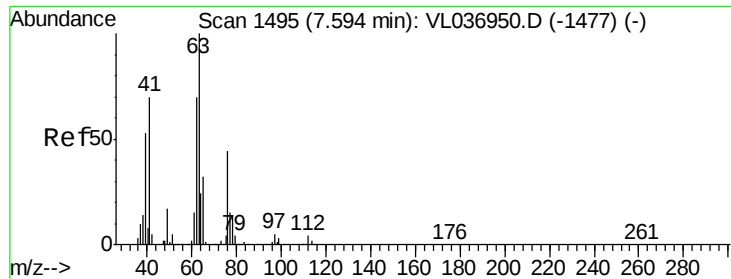
Tot Ion: 43 Resp: 23987
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.4#



#36
Benzene
Concen: 0.070 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

Tgt Ion: 78 Resp: 24281
Ion Ratio Lower Upper
78 100
77 29.4 18.6 28.0#
50 18.1 15.0 22.4

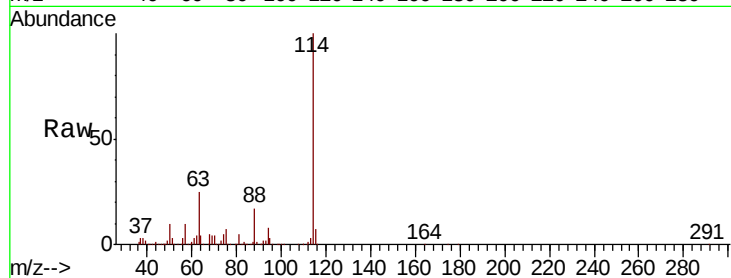




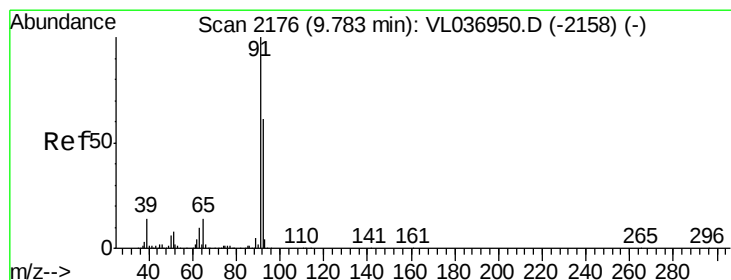
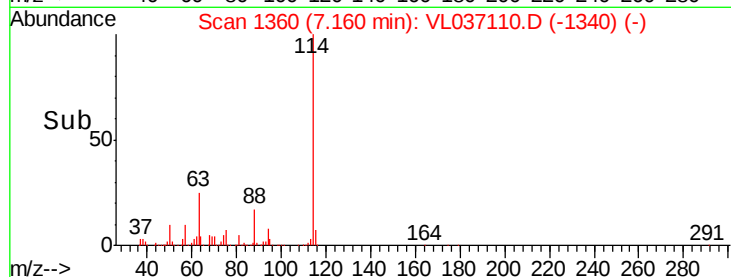
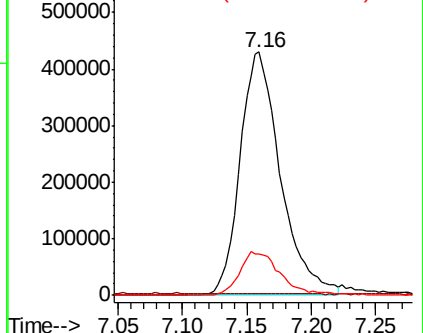
#39
 1,2-Dichloropropane
 Concen: 7.056 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037110.D
 Acq: 2 Jun 2021 20:30

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	17.1	56.2	84.4#

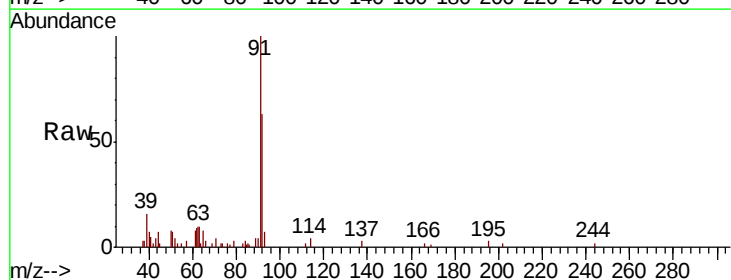


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

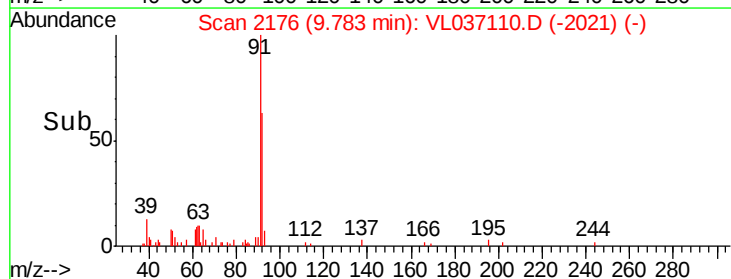
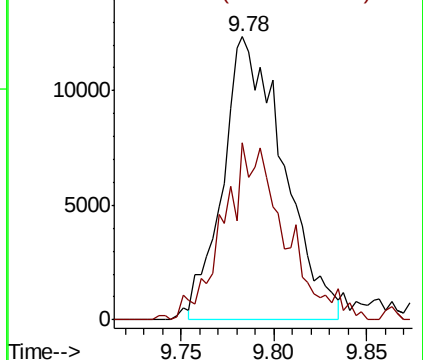


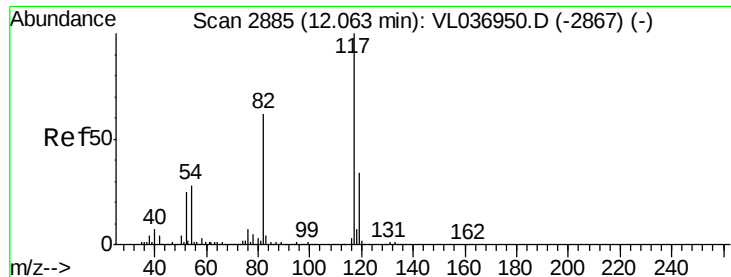
#53
 Toluene
 Concen: 0.068 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VL037110.D
 Acq: 2 Jun 2021 20:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.5	49.5	74.3



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

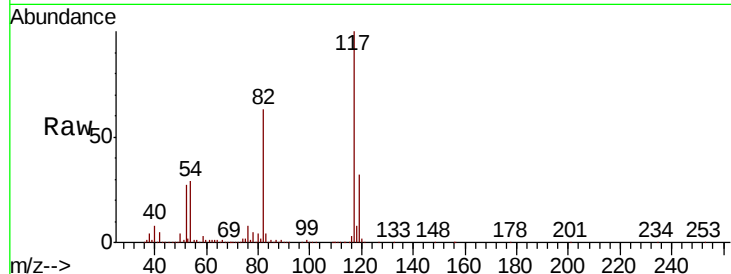




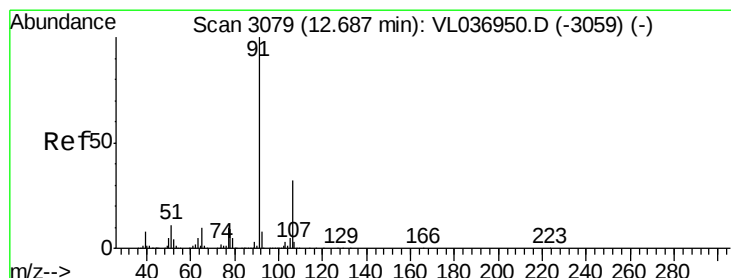
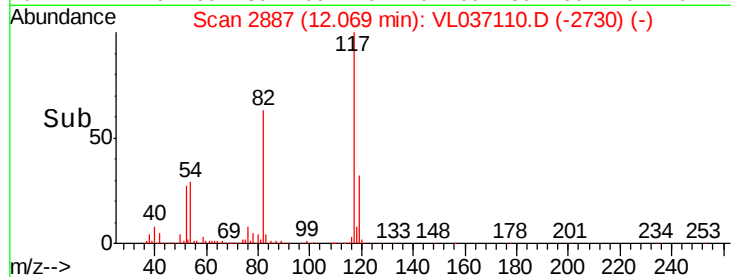
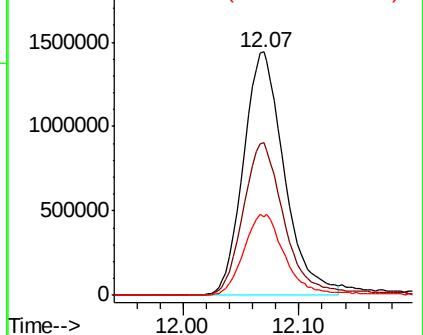
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3532225
Ion Ratio Lower Upper
117 100
82 65.1 52.6 79.0
119 35.0 46.6 70.0#

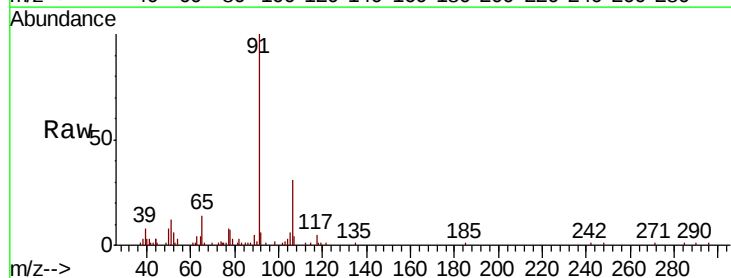


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

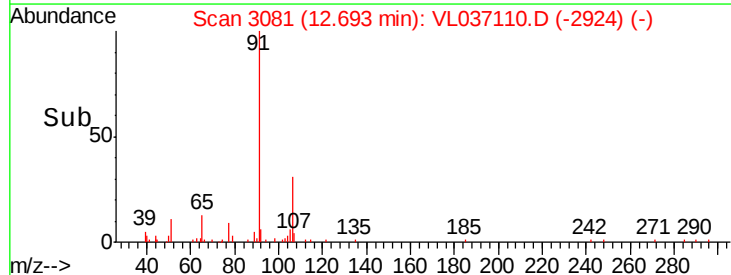
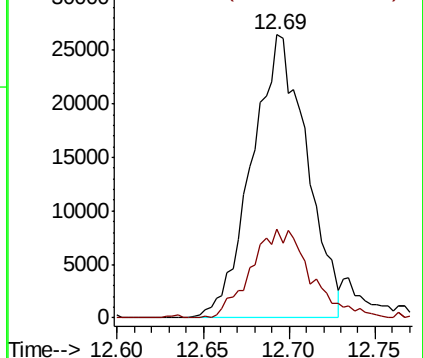


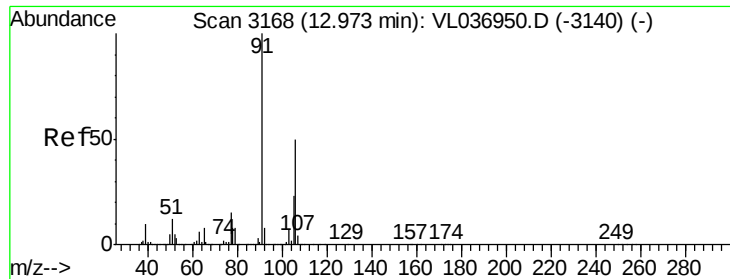
#58
Ethyl Benzene
Concen: 0.117 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. 0.01 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

Tgt Ion: 91 Resp: 58415
Ion Ratio Lower Upper
91 100
106 31.3 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

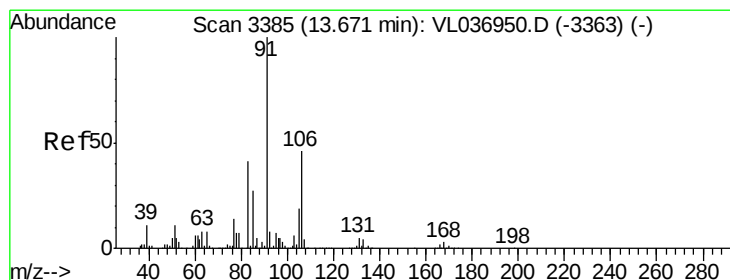
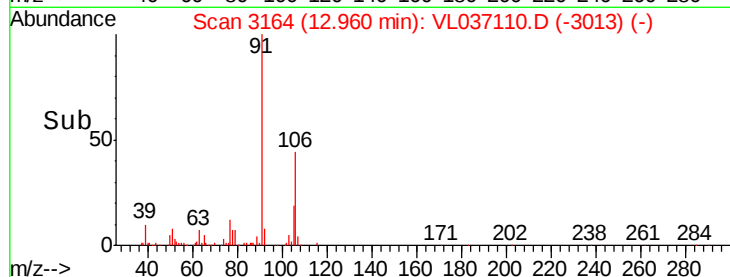
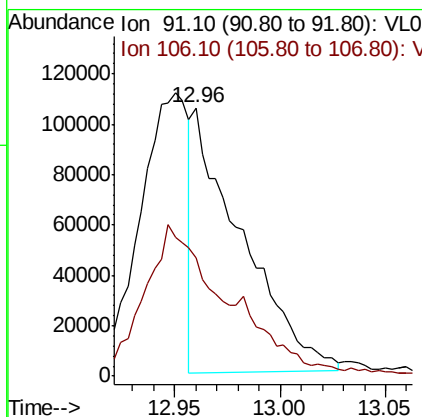
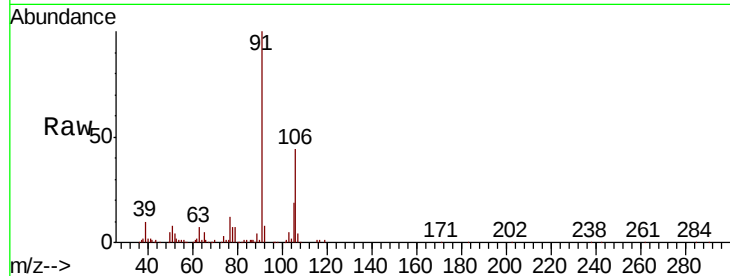




#59
m/p-Xylene
Concen: 0.407 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

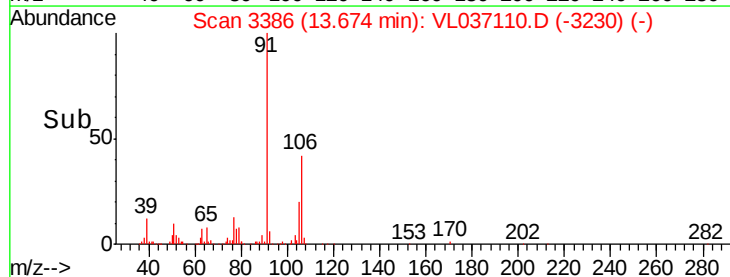
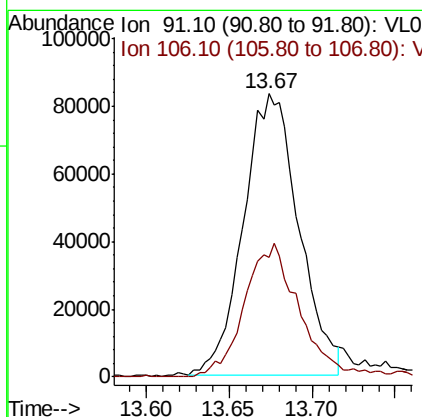
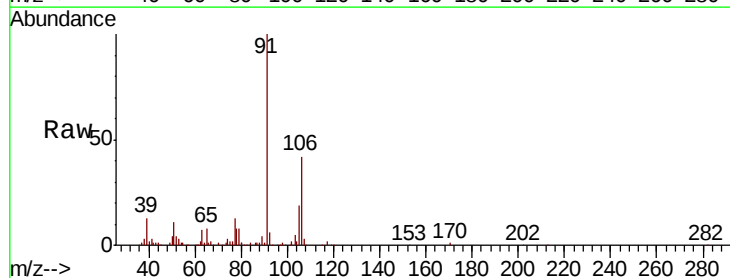
Instrument :
MSVOA_L
ClientSampled :

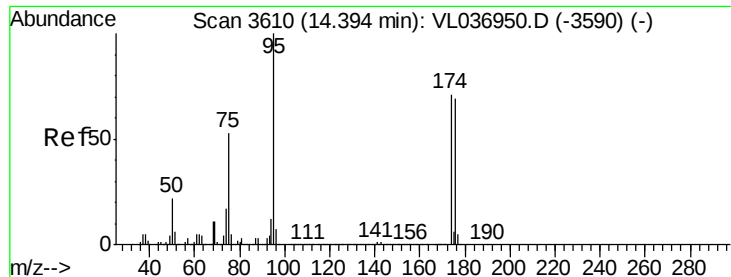
Tot Ion: 91 Resp: 167518
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#



#60
o-Xylene
Concen: 0.490 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VL037110.D
Acq: 2 Jun 2021 20:30

Tgt Ion: 91 Resp: 192634
Ion Ratio Lower Upper
91 100
106 48.8 23.4 70.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.310 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037110.D

Acq: 2 Jun 2021 20:30

Instrument :

MSVOA_L

ClientSampleId :

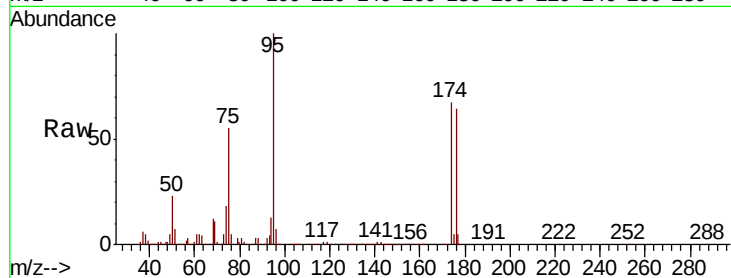
Tot Ion: 95 Resp: 2735844

Ion Ratio Lower Upper

95 100

174 73.1 58.4 87.6

175 5.4 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

