

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091621\
 Data File : VL037625.D
 Acq On : 16 Sep 2021 21:24
 Operator : SY/AP
 Sample : M3780-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 17 05:28:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1614204	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	4594893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3989714	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2862846	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

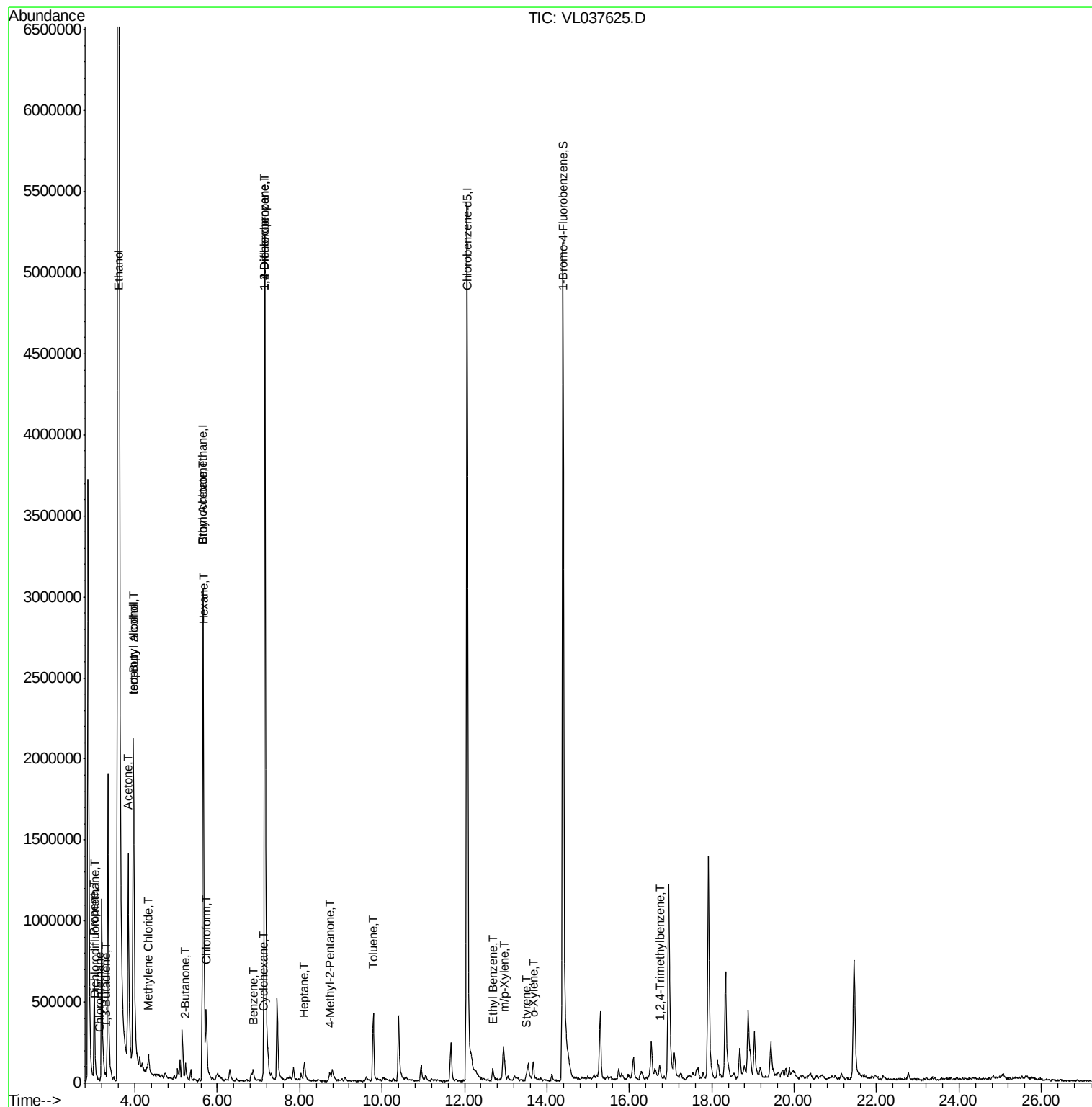
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	10353	0.035	ppbv 89
4) Chloromethane	3.13	50	7299	0.065	ppbv # 63
9) Propene	3.01	41	163432	1.522	ppbv # 69
10) Heptane	8.10	43	16723	0.067	ppbv # 24
13) Ethanol	3.60	45	18632489	1773.619	ppbv 97
15) Acetone	3.83	43	1573282	9.381	ppbv 100
16) 1,3-Butadiene	3.29	39	5546	0.053	ppbv # 10
17) tert-Butyl alcohol	3.96	59	101889	0.716	ppbv 97
19) Isopropyl Alcohol	3.97	45	2985413	32.716	ppbv # 94
20) Methylene Chloride	4.33	84	19808	0.247	ppbv 96
25) Ethyl Acetate	5.66	43	259012	0.638	ppbv # 91
26) Hexane	5.67	57	37897	0.196	ppbv # 1
29) Chloroform	5.73	83	286727	1.018	ppbv 96
30) Cyclohexane	7.11	84	7387	0.045	ppbv # 1
34) 2-Butanone	5.22	43	57505	0.308	ppbv # 26
36) Benzene	6.87	78	27937	0.073	ppbv # 89
39) 1,2-Dichloropropane	7.16	63	1072137	7.306	ppbv # 28
50) 4-Methyl-2-Pentanone	8.73	43	22077	0.093	ppbv 92
53) Toluene	9.79	91	336631	0.790	ppbv 97
58) Ethyl Benzene	12.69	91	25170	0.048	ppbv 94
59) m/p-Xylene	12.97	91	48378	0.105	ppbv # 31
60) o-Xylene	13.66	91	58612	0.133	ppbv 71
61) Styrene	13.50	104	9519	0.044	ppbv # 28
74) 1,2,4-Trimethylbenzene	16.73	105	49490	0.100	ppbv # 73

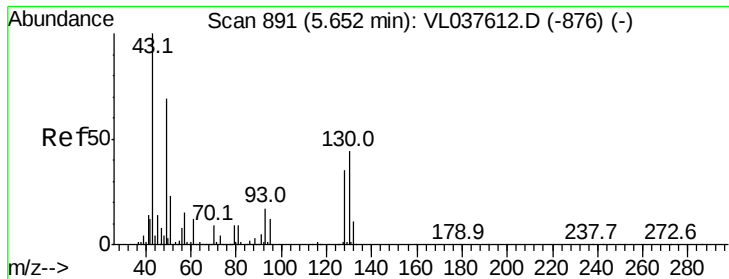
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :
MSVOA_L
ClientSampleId :

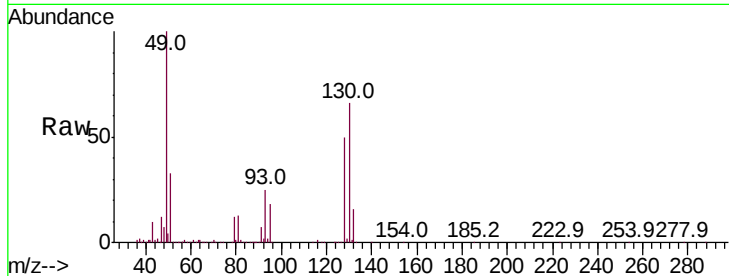
Tot Ion: 49 Resp: 1614204

Ion Ratio Lower Upper

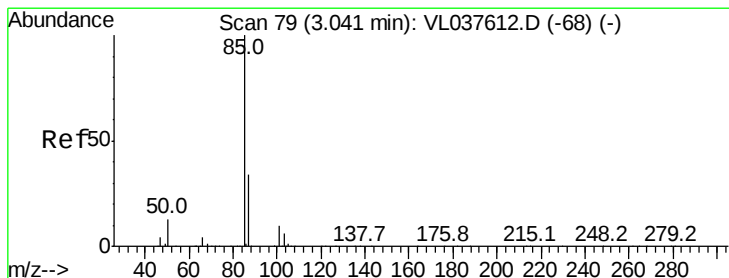
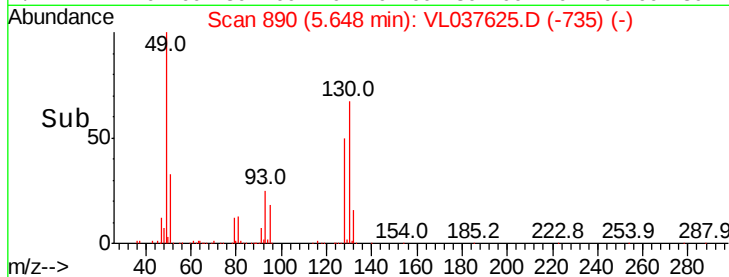
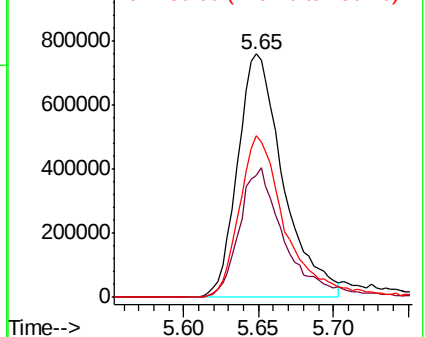
49 100

128 54.3 27.9 83.6

130 68.6 33.9 101.7



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



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL037625.D

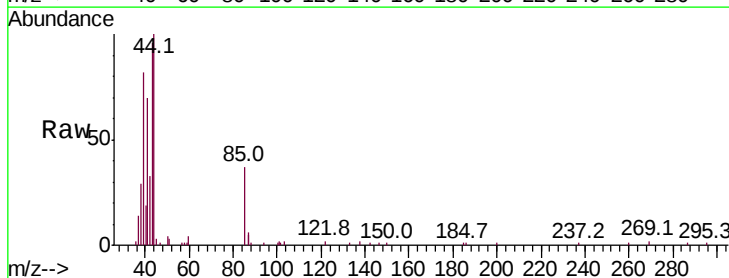
Acq: 16 Sep 2021 21:24

Tgt Ion: 85 Resp: 10353

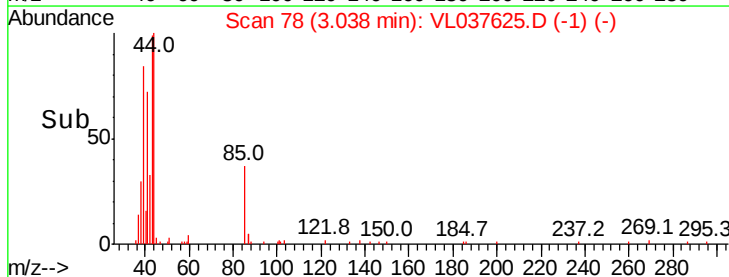
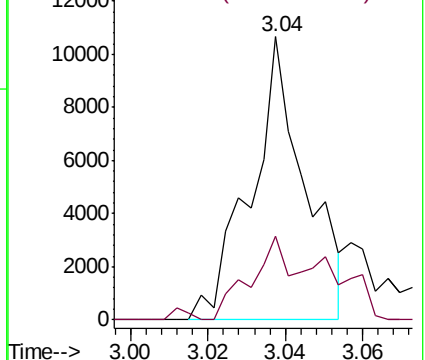
Ion Ratio Lower Upper

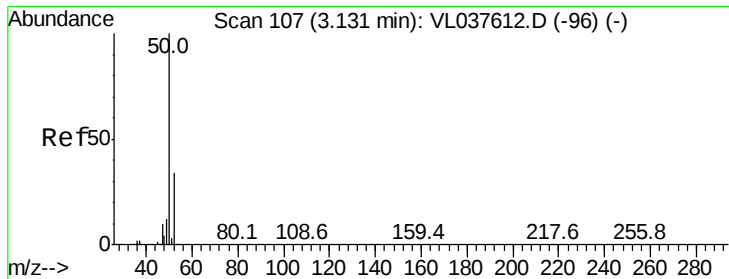
85 100

87 27.2 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

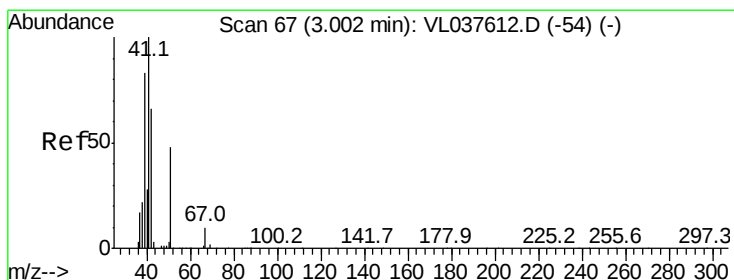
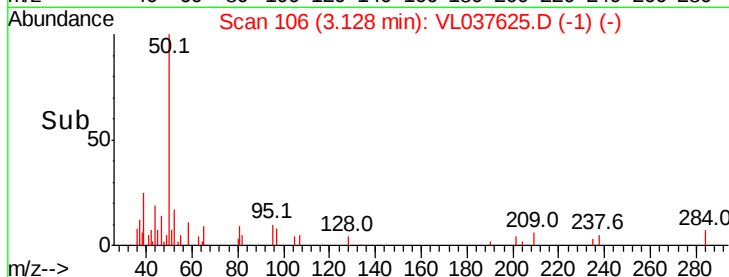
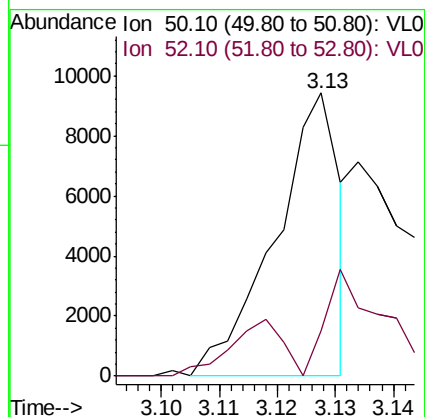
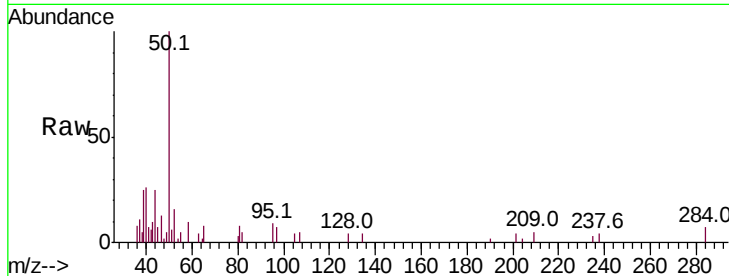
ClientSampleId :

Tot Ion: 50 Resp: 7299

Ion Ratio Lower Upper

50 100

52 12.8 27.1 40.7#



#9

Propene

Concen: 1.522 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037625.D

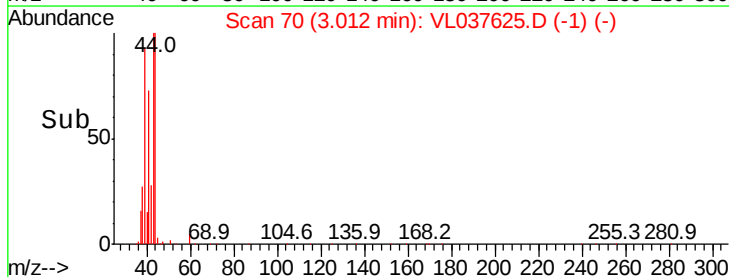
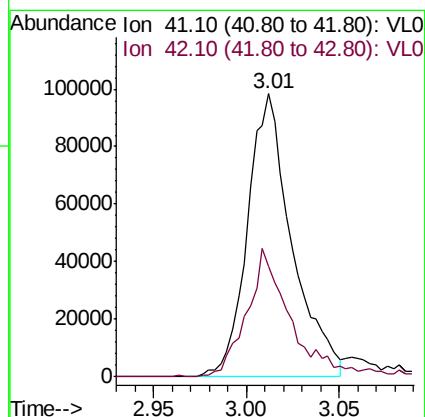
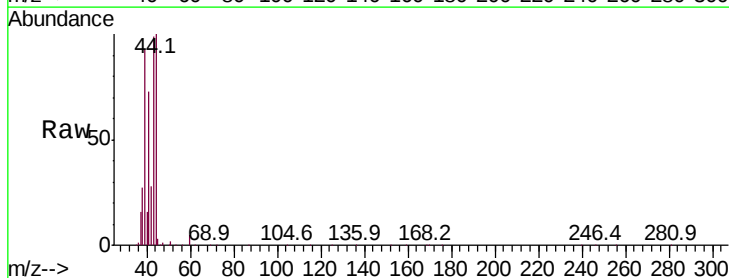
Acq: 16 Sep 2021 21:24

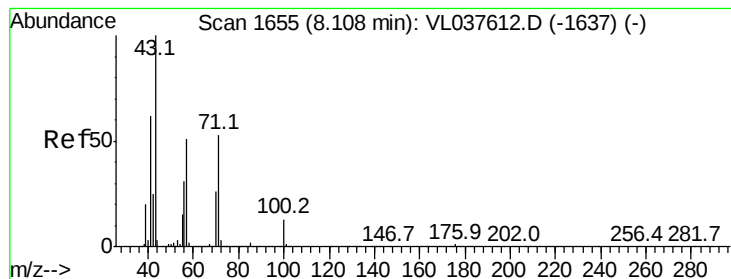
Tgt Ion: 41 Resp: 163432

Ion Ratio Lower Upper

41 100

42 46.0 57.2 85.8#





#10

Heptane

Concen: 0.067 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

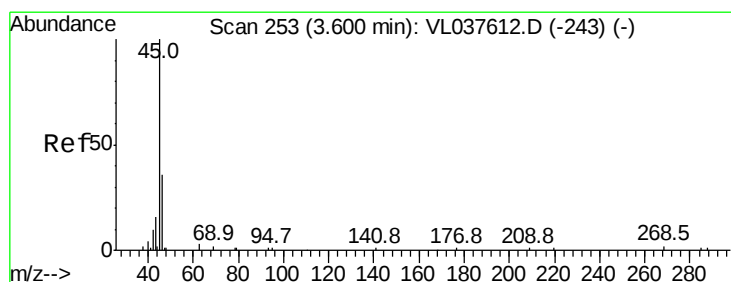
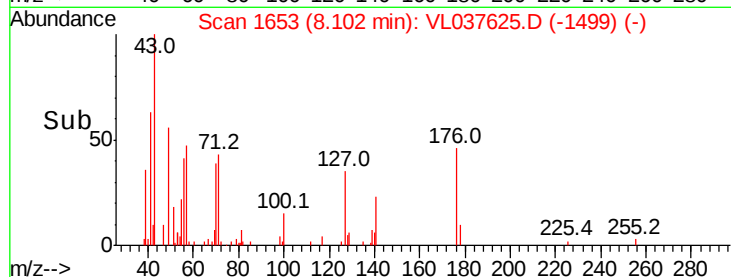
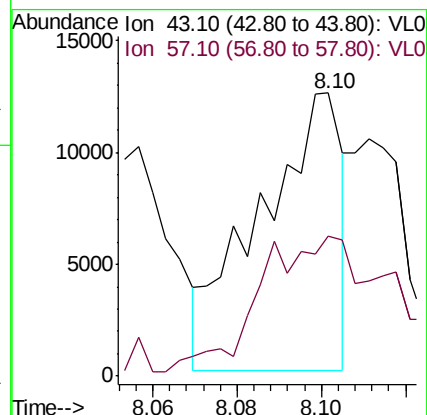
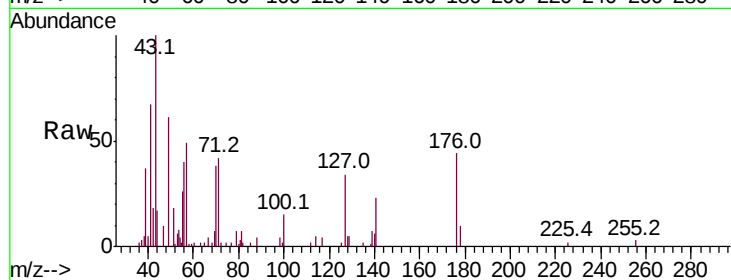
ClientSampleId :

Tot Ion: 43 Resp: 16723

Ion Ratio Lower Upper

43 100

57 102.7 40.1 60.1#



#13

Ethanol

Concen: 1773.619 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL037625.D

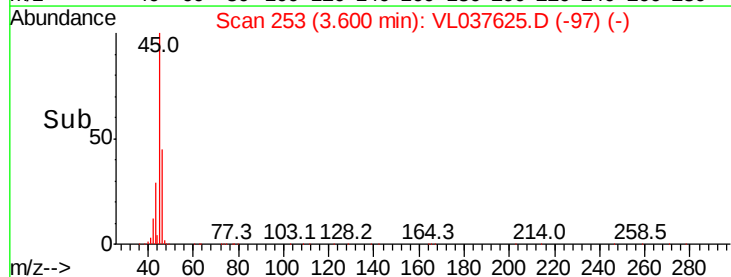
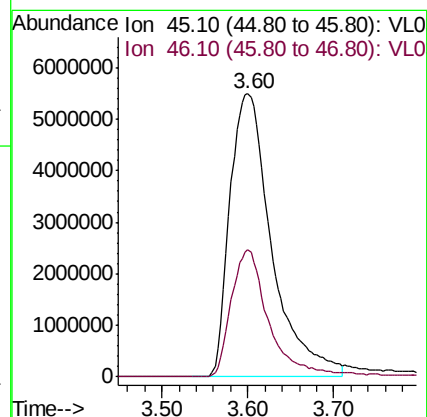
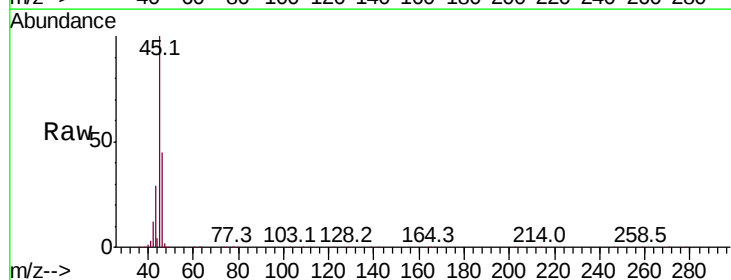
Acq: 16 Sep 2021 21:24

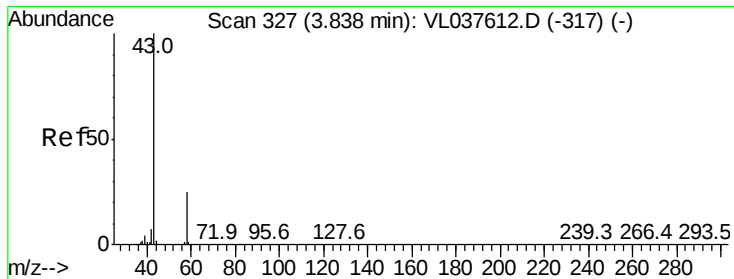
Tgt Ion: 45 Resp: 18632489

Ion Ratio Lower Upper

45 100

46 41.4 17.2 68.8





#15

Acetone

Concen: 9.381 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

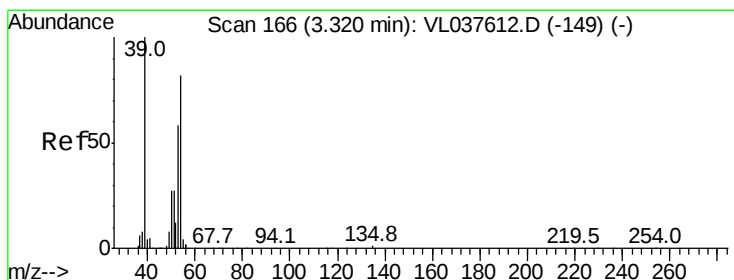
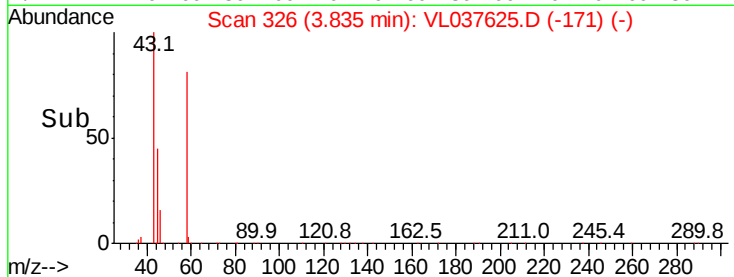
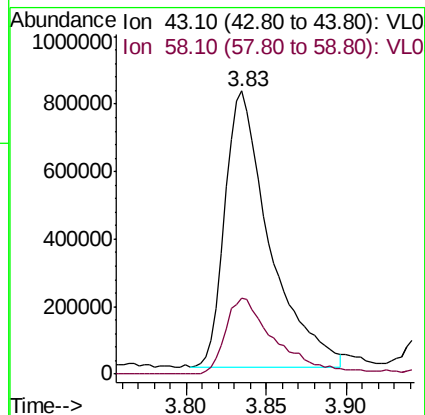
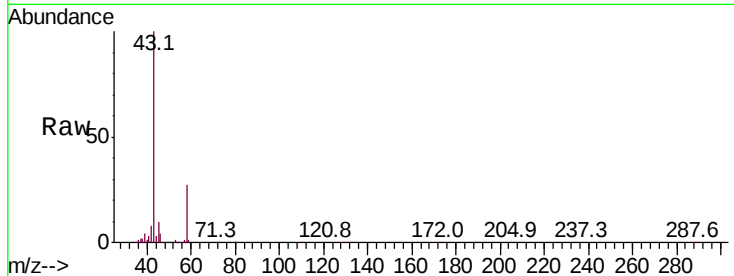
ClientSampleId :

Tot Ion: 43 Resp: 1573282

Ion Ratio Lower Upper

43 100

58 31.4 24.9 37.3



#16

1,3-Butadiene

Concen: 0.053 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.03 min

Lab File: VL037625.D

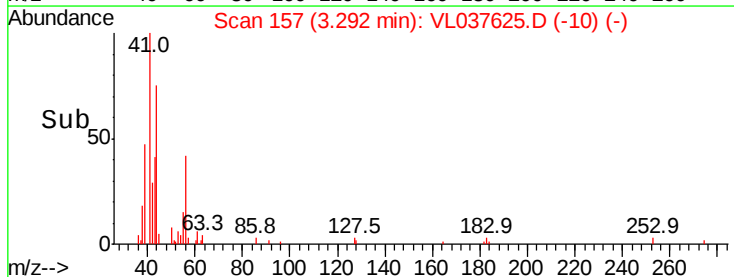
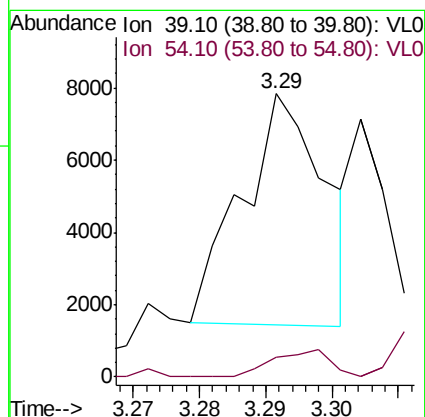
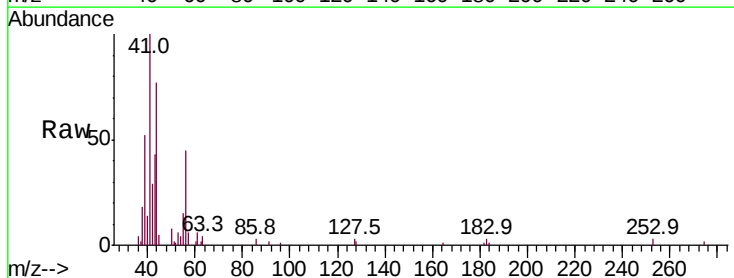
Acq: 16 Sep 2021 21:24

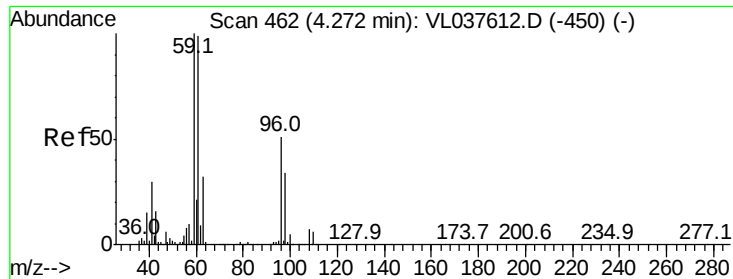
Tgt Ion: 39 Resp: 5546

Ion Ratio Lower Upper

39 100

54 0.0 62.6 93.8#



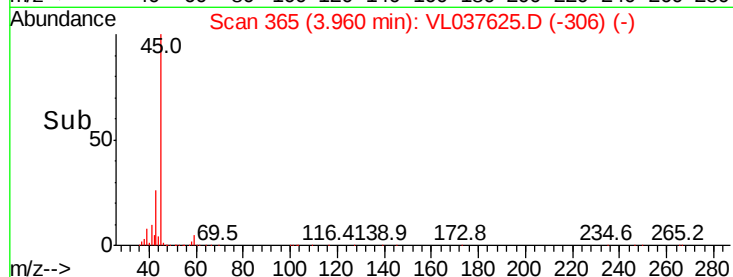
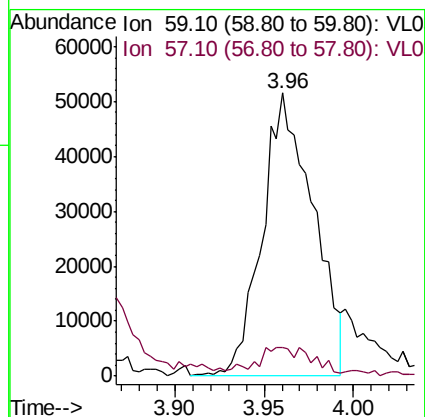
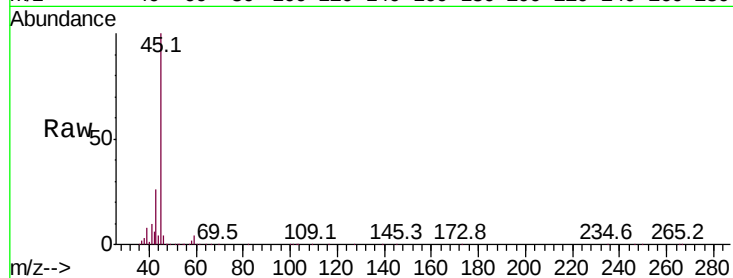


#17

tert-Butyl alcohol
 Concen: 0.716 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.31 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Instrument :
 MSVOA_L
 ClientSampleId :

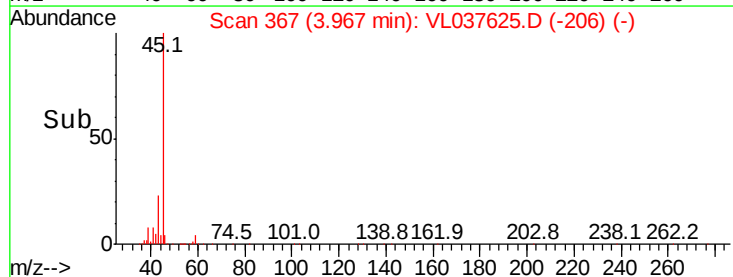
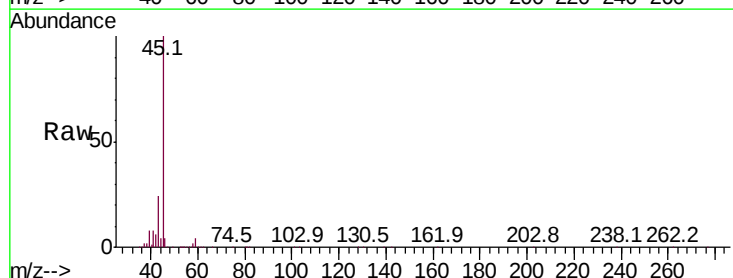
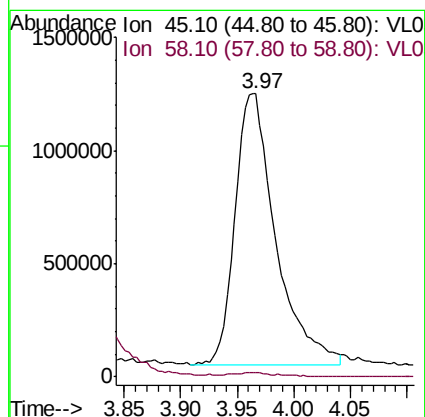
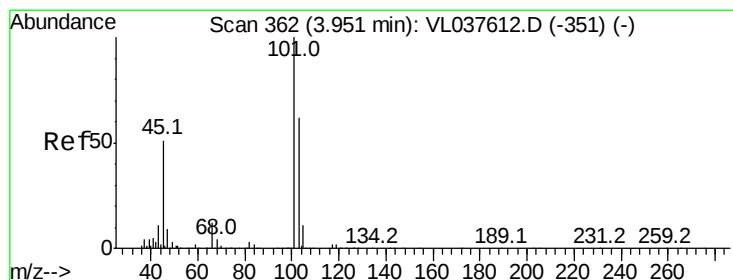
Tot Ion: 59 Resp: 101889
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.4 12.6

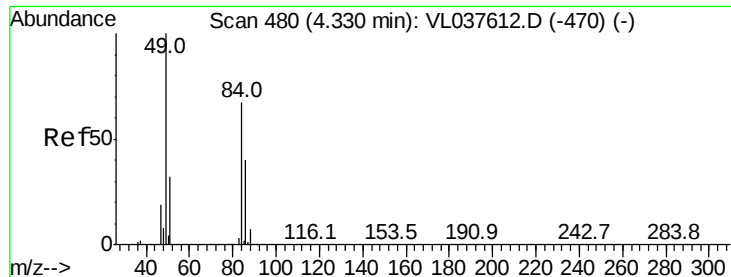


#19

Isopropyl Alcohol
 Concen: 32.716 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Tgt Ion: 45 Resp: 2985413
 Ion Ratio Lower Upper
 45 100
 58 1.8 2.9 4.3#

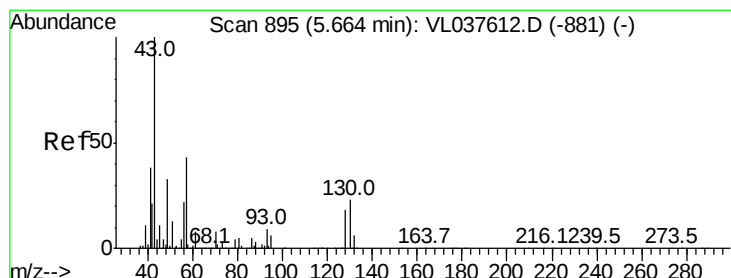
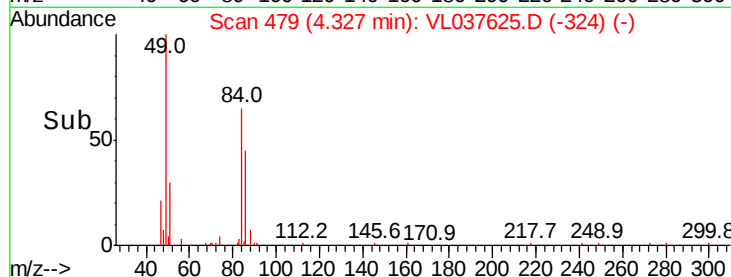
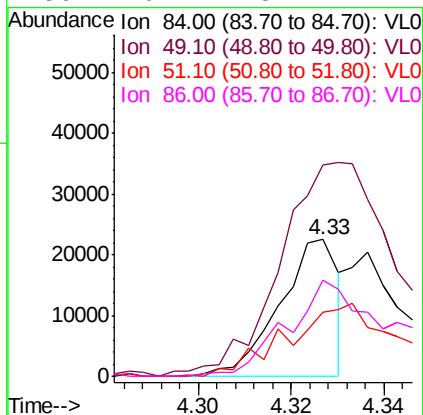
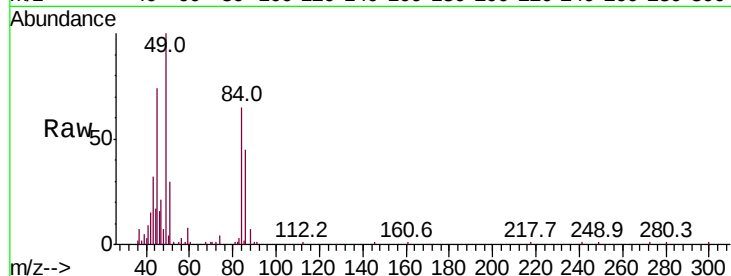




#20
Methvlene Chloride
Concen: 0.247 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

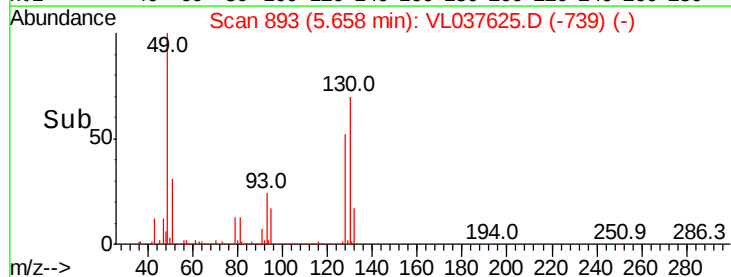
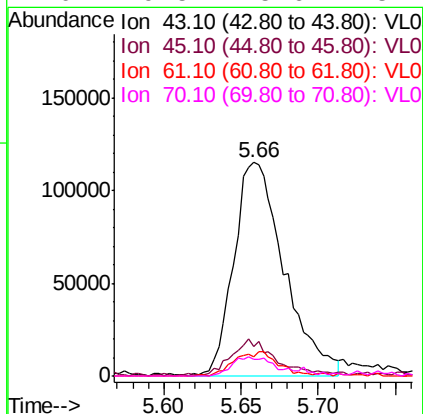
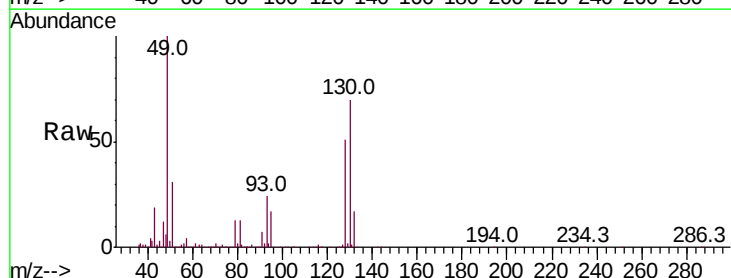
Instrument :
MSVOA_L
ClientSampleId :

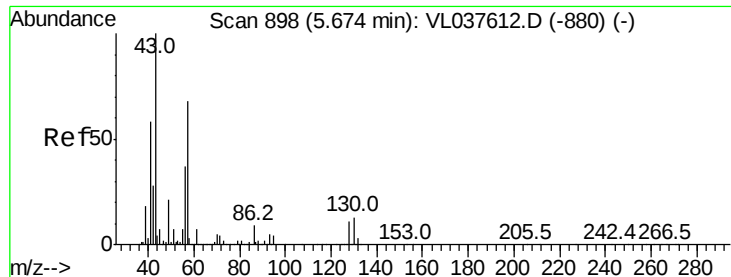
Tot Ion:	84	Resp:	19808
Ion	Ratio	Lower	Upper
84	100		
49	151.4	120.0	180.0
51	46.1	38.0	57.0
86	70.2	48.2	72.2



#25
Ethyl Acetate
Concen: 0.638 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion:	43	Resp:	259012
Ion	Ratio	Lower	Upper
43	100		
45	15.0	8.0	12.0#
61	11.0	7.5	11.3
70	9.5	5.6	8.4#





#26

Hexane

Concen: 0.196 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 37897

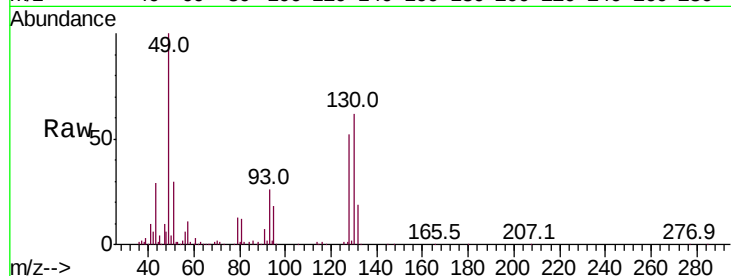
Ion Ratio Lower Upper

57 100

41 180.0 70.9 106.3#

43 0.0 170.4 255.6#

56 112.3 42.6 64.0#

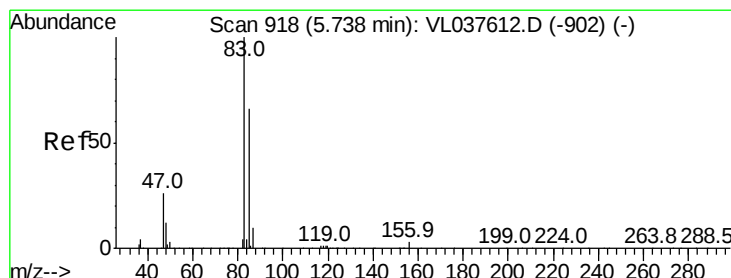
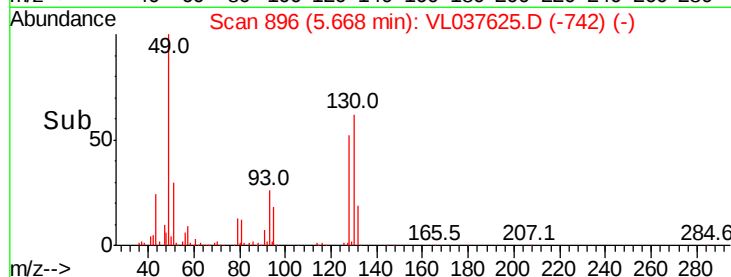
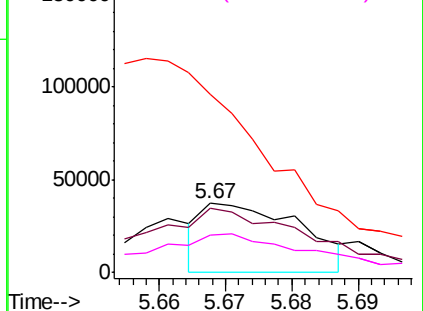


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 1.018 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL037625.D

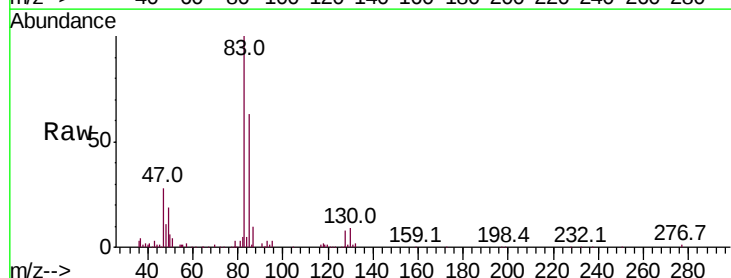
Acq: 16 Sep 2021 21:24

Tgt Ion: 83 Resp: 286727

Ion Ratio Lower Upper

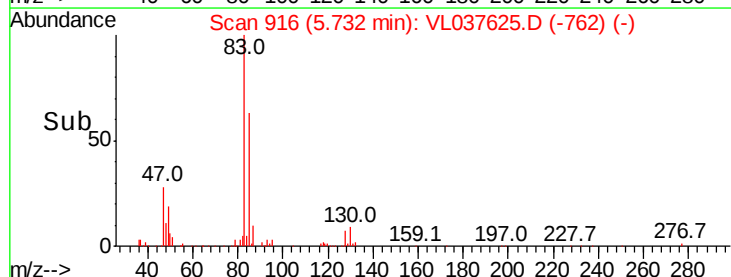
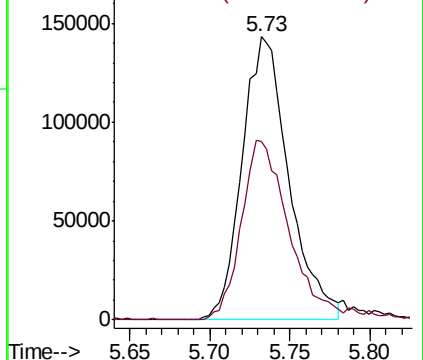
83 100

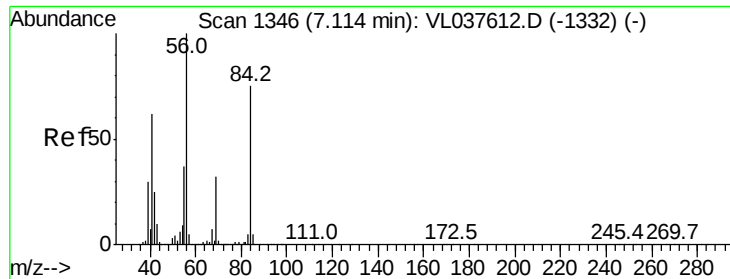
85 62.9 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

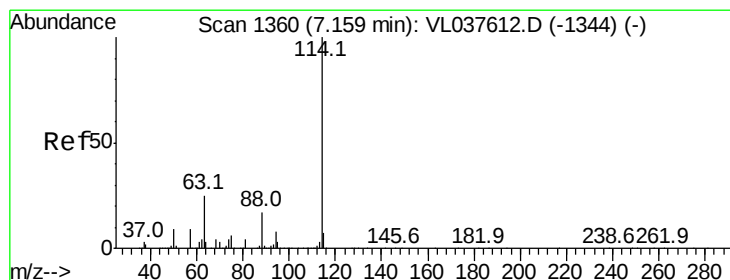
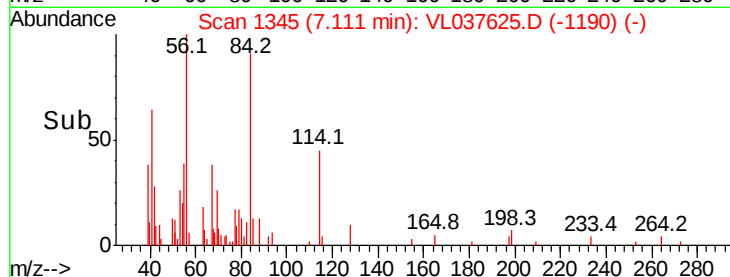
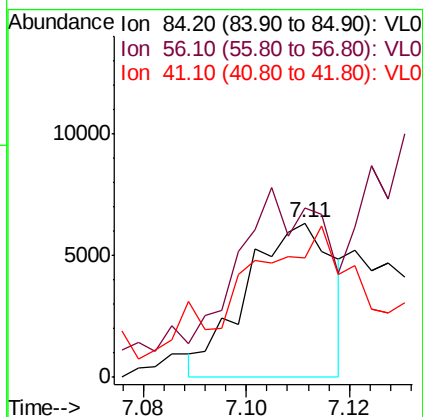
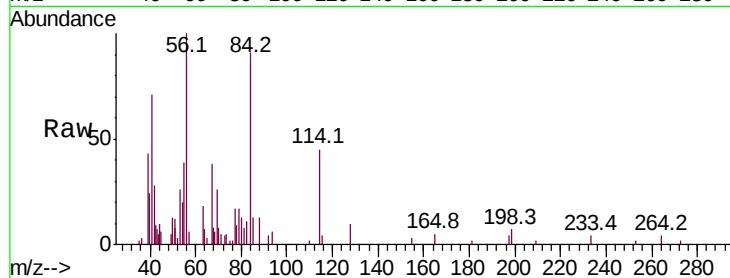




#30
Cvclohexane
Concen: 0.045 ppbv
RT: 7.11 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

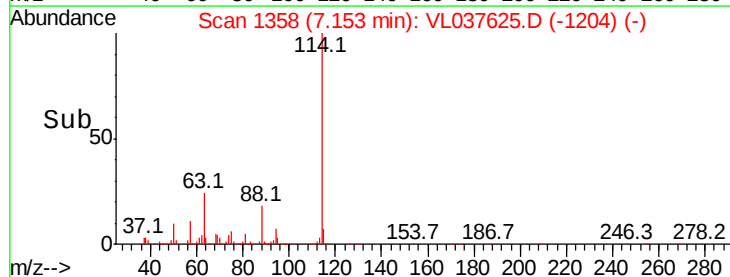
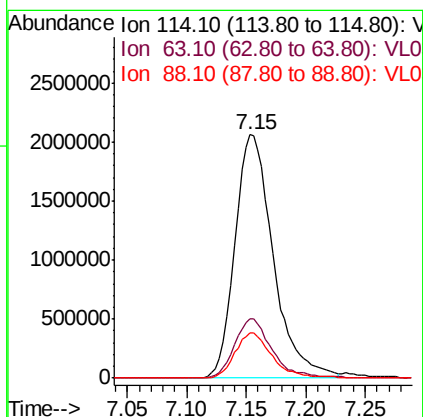
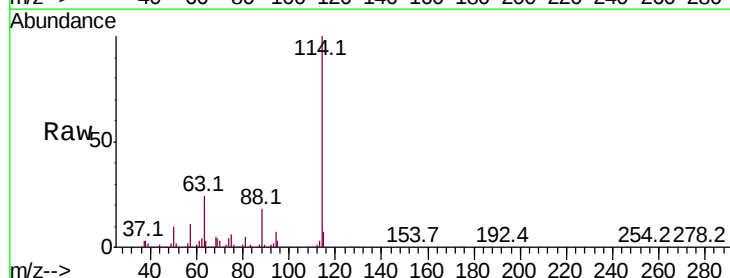
Instrument :
MSVOA_L
ClientSampleId :

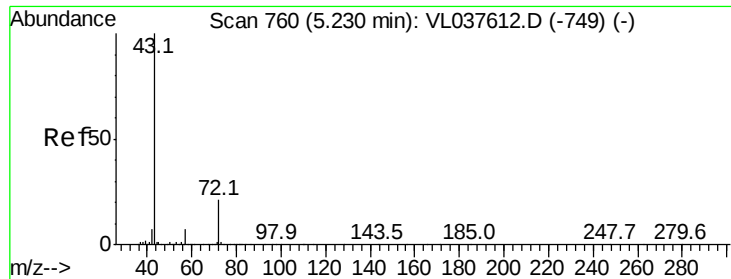
Tot Ion: 84 Resp: 7387
Ion Ratio Lower Upper
84 100
56 0.0 113.6 170.4#
41 170.0 67.9 101.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion: 114 Resp: 4594893
Ion Ratio Lower Upper
114 100
63 24.1 19.6 29.4
88 18.2 14.2 21.4

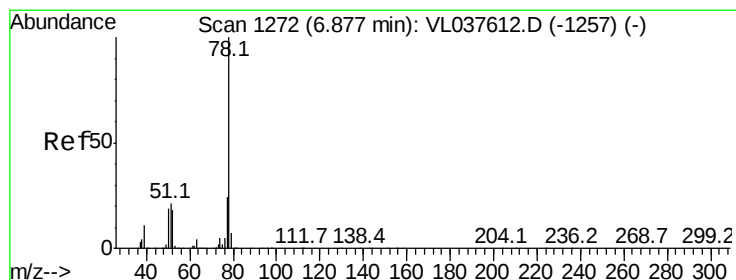
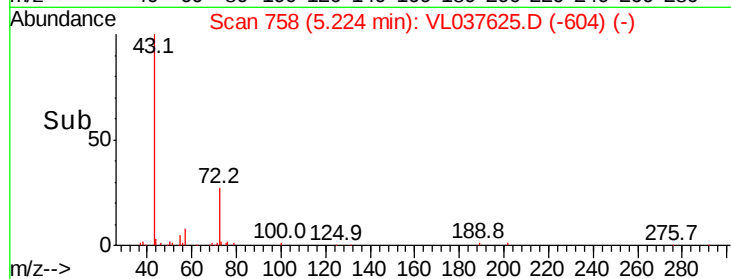
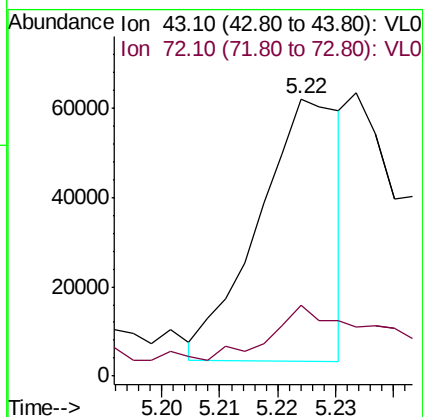
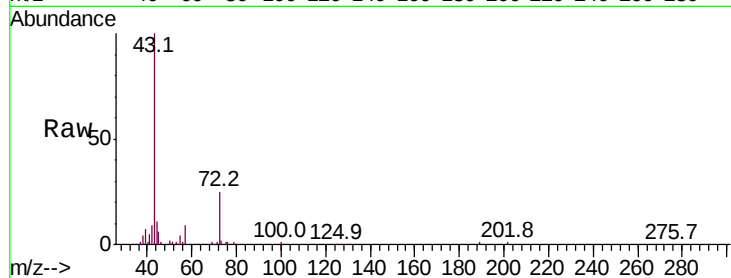




#34
2-Butanone
Concen: 0.308 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

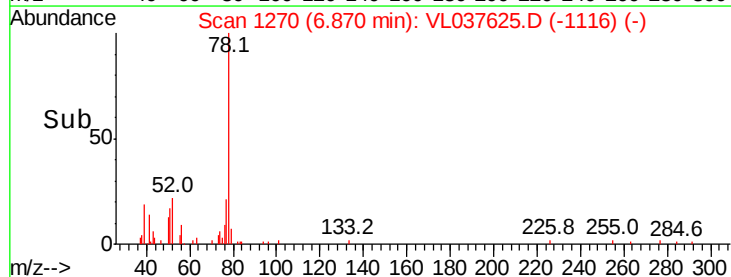
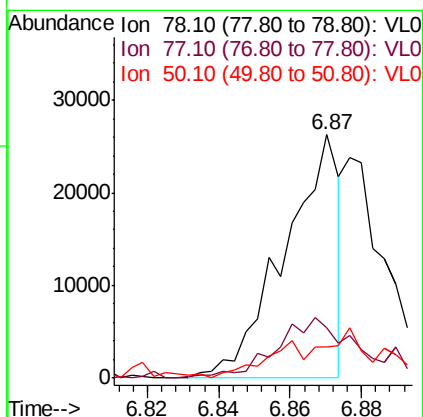
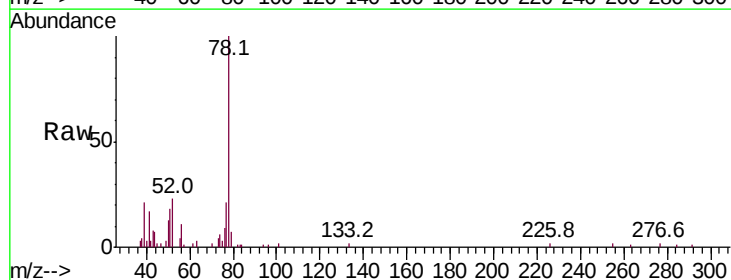
Instrument :
MSVOA_L
ClientSampleId :

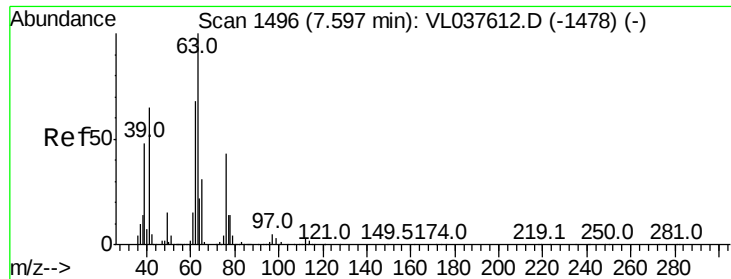
Tot Ion: 43 Resp: 57505
Ion Ratio Lower Upper
43 100
72 58.7 18.4 27.6#



#36
Benzene
Concen: 0.073 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion: 78 Resp: 27937
Ion Ratio Lower Upper
78 100
77 20.1 19.0 28.4
50 11.5 14.8 22.2#



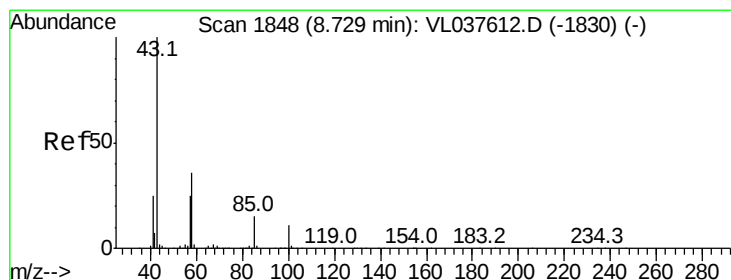
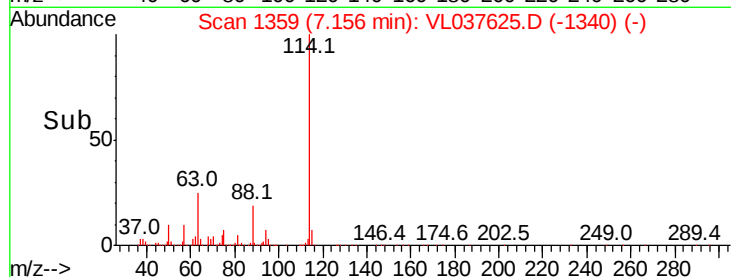
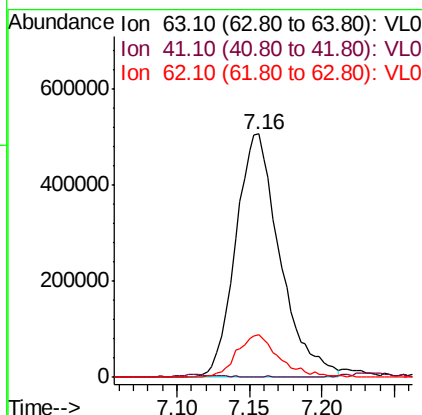
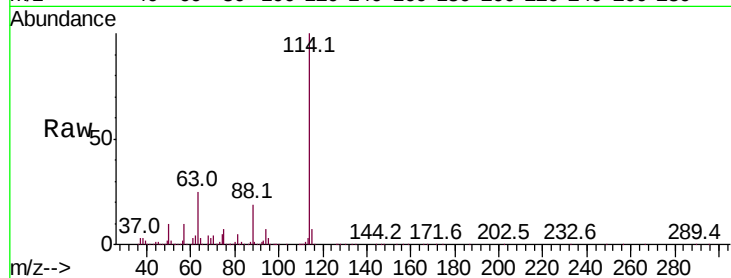


#39
 1,2-Dichloropropane
 Concen: 7.306 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.44 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 1072137

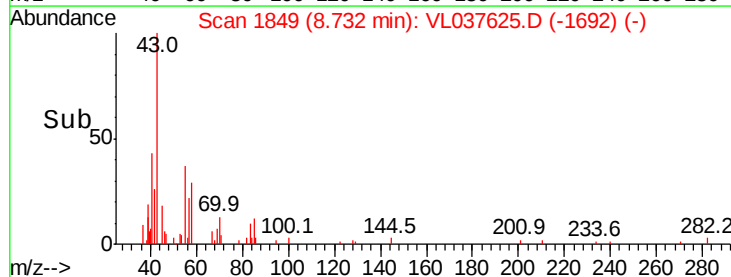
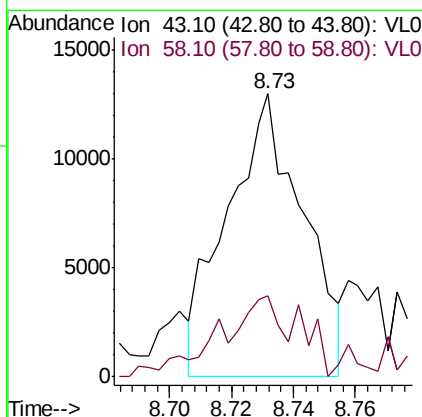
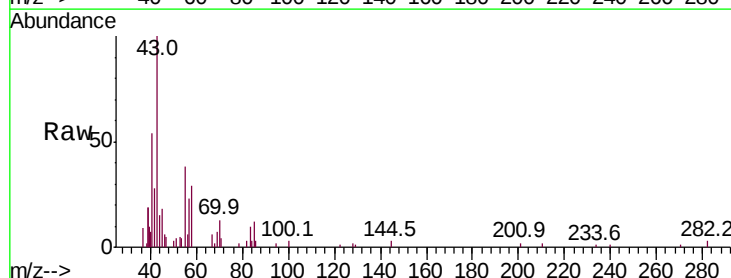
Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	17.2	54.6	81.8#

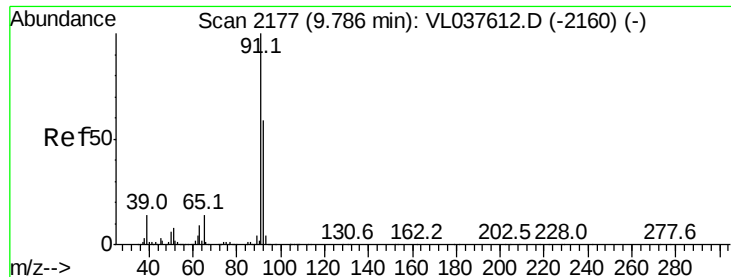


#50
 4-Methyl-2-Pentanone
 Concen: 0.093 ppbv
 RT: 8.73 min Scan# 1849
 Delta R.T. 0.00 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Tgt Ion: 43 Resp: 22077

Ion	Ratio	Lower	Upper
43	100		
58	32.3	29.4	44.2





#53

Toluene

Concen: 0.790 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

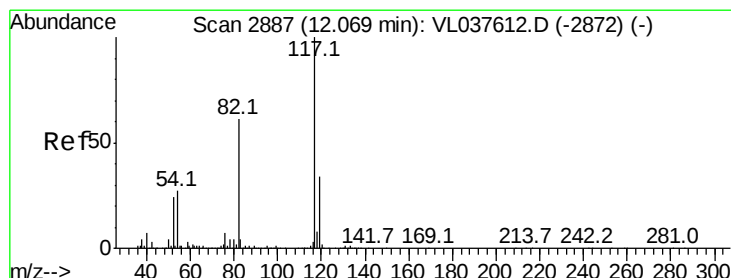
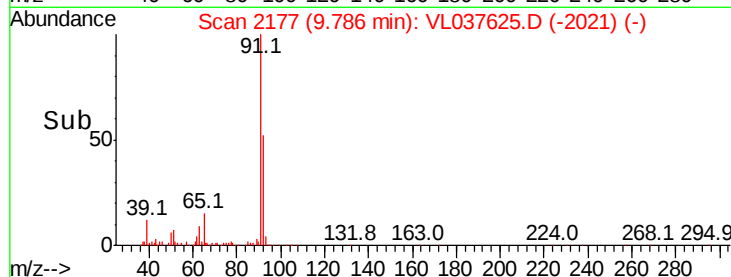
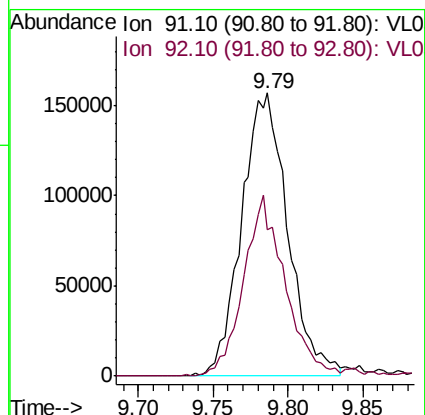
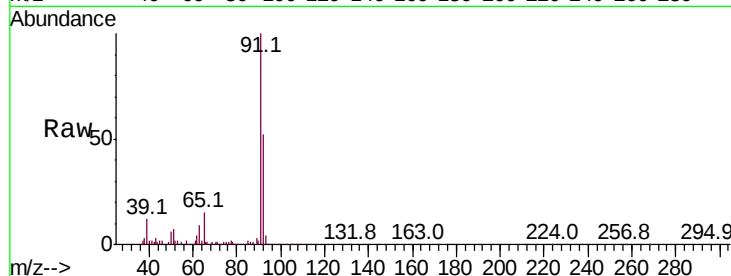
ClientSampleId :

Tot Ion: 91 Resp: 336631

Ion Ratio Lower Upper

91 100

92 58.6 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

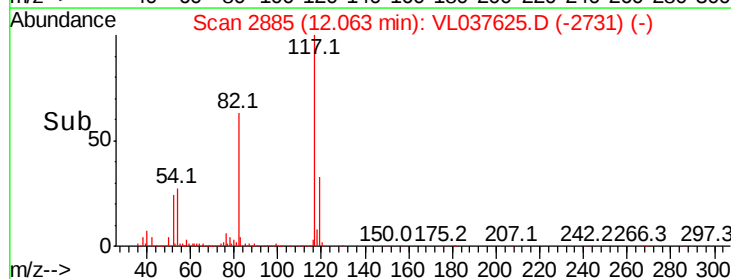
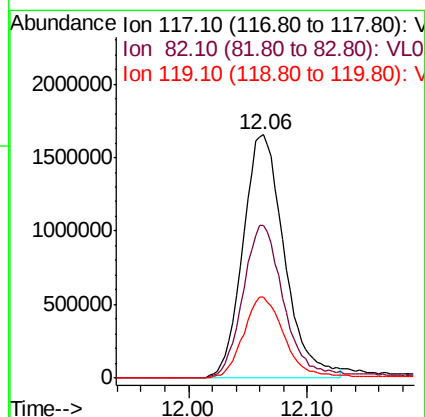
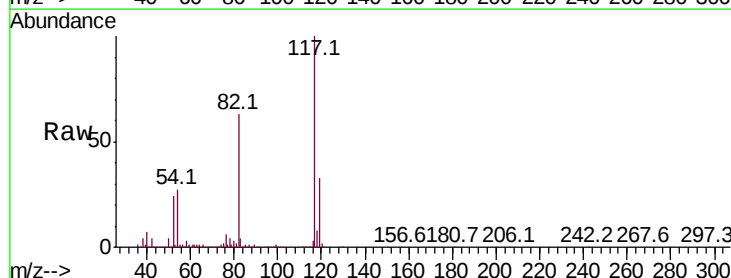
Tgt Ion: 117 Resp: 3989714

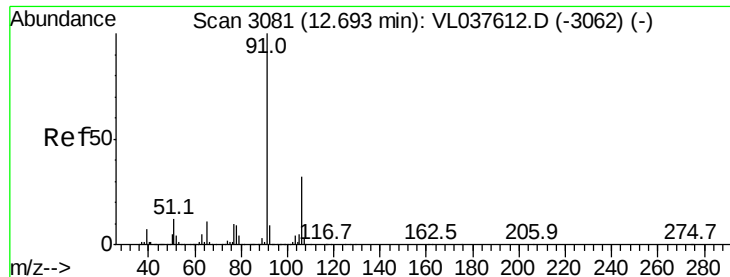
Ion Ratio Lower Upper

117 100

82 65.2 50.6 75.8

119 34.5 26.2 39.2





#58

Ethyl Benzene

Concen: 0.048 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

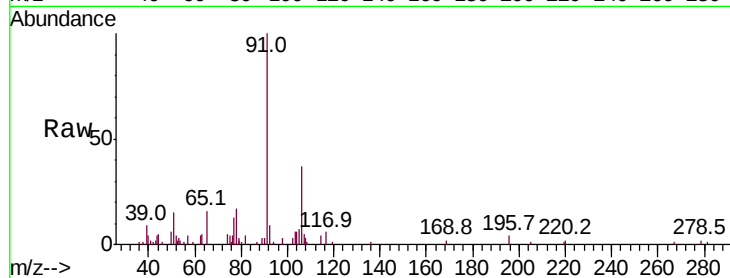
ClientSampled :

Tot Ion: 91 Resp: 25170

Ion Ratio Lower Upper

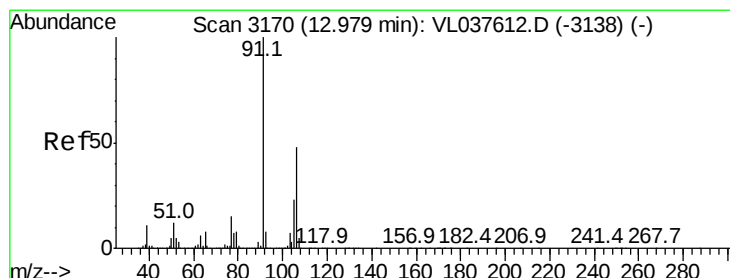
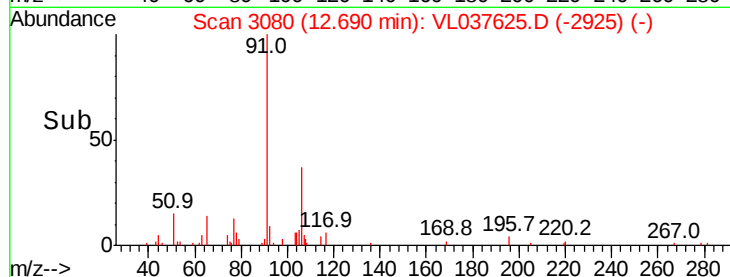
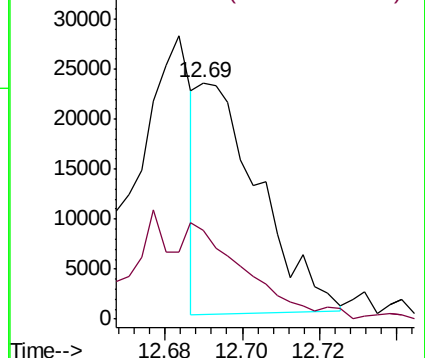
91 100

106 35.2 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: 0.105 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL037625.D

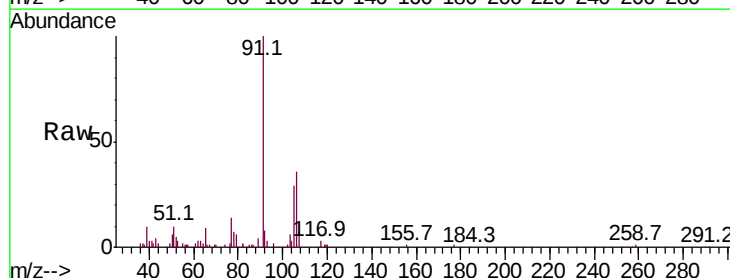
Acq: 16 Sep 2021 21:24

Tgt Ion: 91 Resp: 48378

Ion Ratio Lower Upper

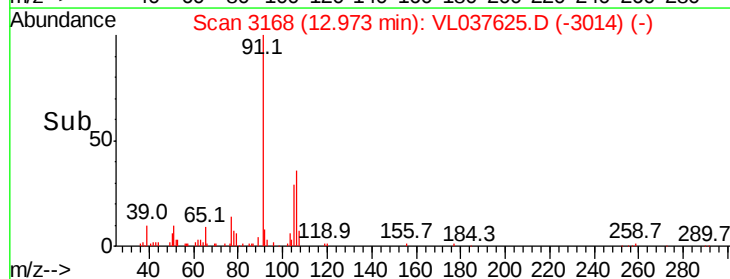
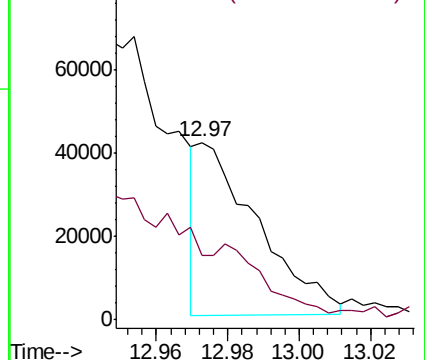
91 100

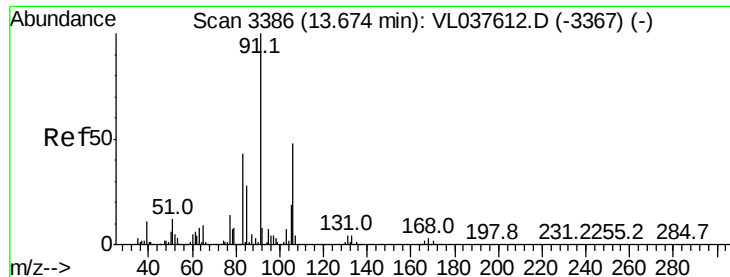
106 0.0 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

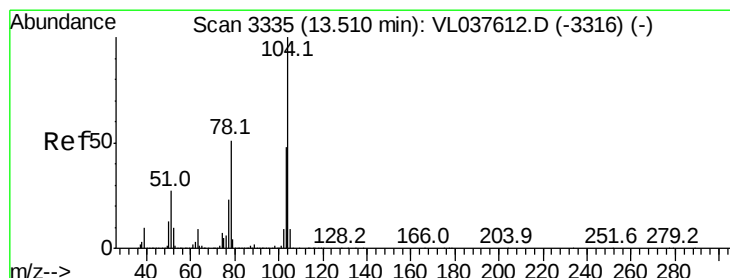
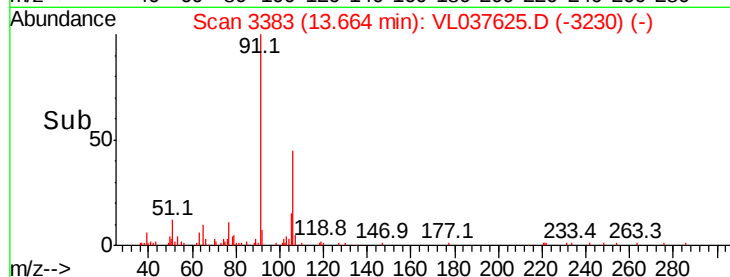
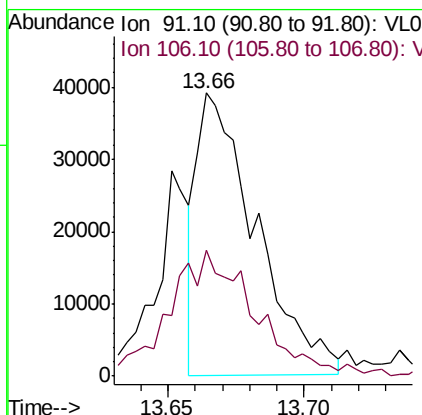
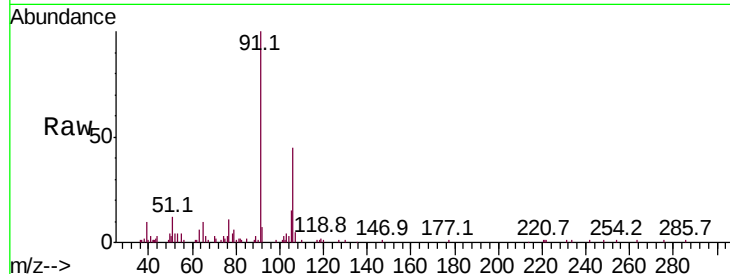




#60
o-Xylene
Concen: 0.133 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

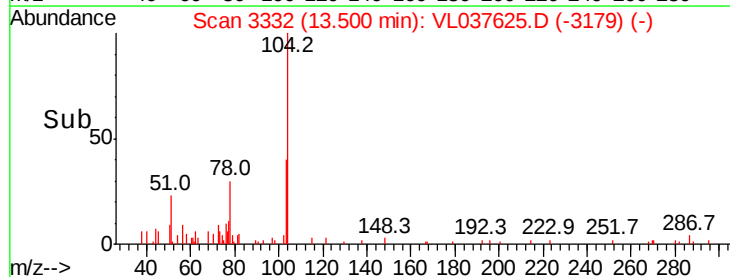
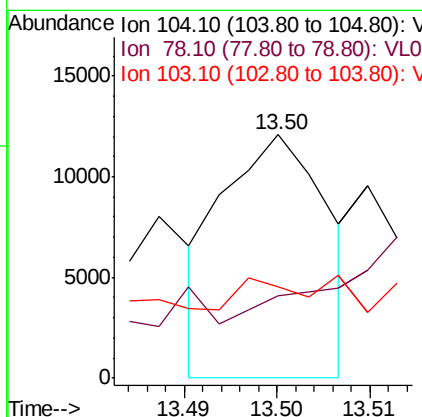
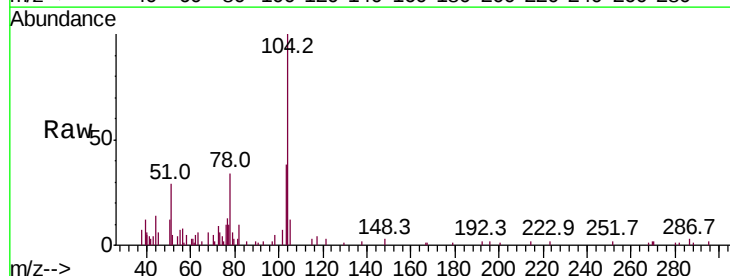
Instrument :
MSVOA_L
ClientSampled :

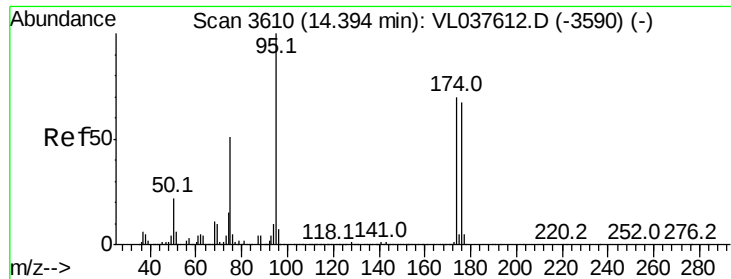
Tot Ion: 91 Resp: 58612
Ion Ratio Lower Upper
91 100
106 65.4 23.0 69.0



#61
Styrene
Concen: 0.044 ppbv
RT: 13.50 min Scan# 3332
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion: 104 Resp: 9519
Ion Ratio Lower Upper
104 100
78 0.0 39.7 59.5#
103 0.0 38.8 58.2#

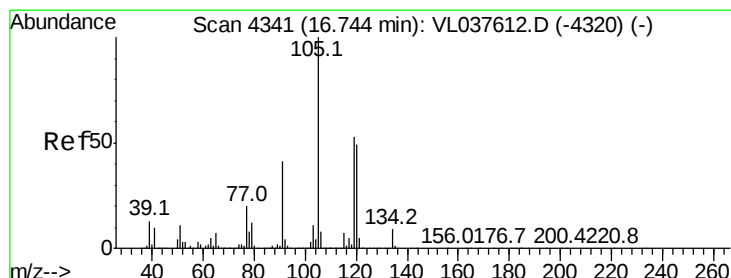
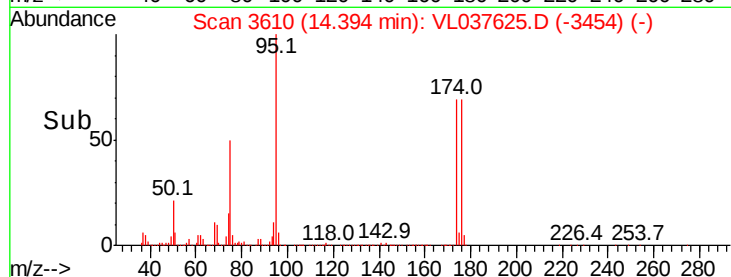
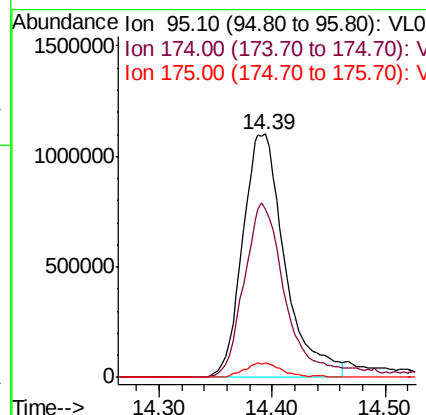
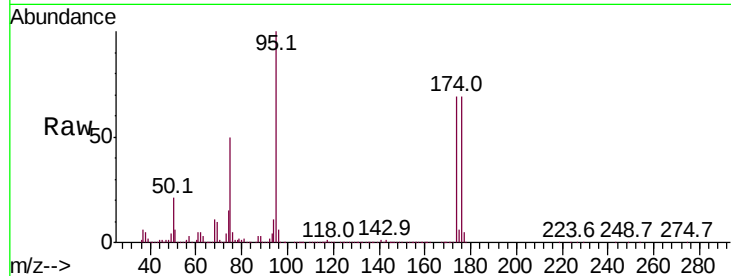




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.929 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2862846
 Ion Ratio Lower Upper
 95 100
 174 75.0 56.3 84.5
 175 5.5 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.100 ppbv
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Tgt Ion: 105 Resp: 49490
 Ion Ratio Lower Upper
 105 100
 120 36.3 39.4 59.0#
 91 12.4 33.3 49.9#
 77 15.5 15.7 23.5#

