

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037575.D
 Acq On : 8 Sep 2021 17:00
 Operator : SY/AP
 Sample : M3662-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Sep 09 09:12:36 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1658773	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4962846	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4250874	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2995693	9.92	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

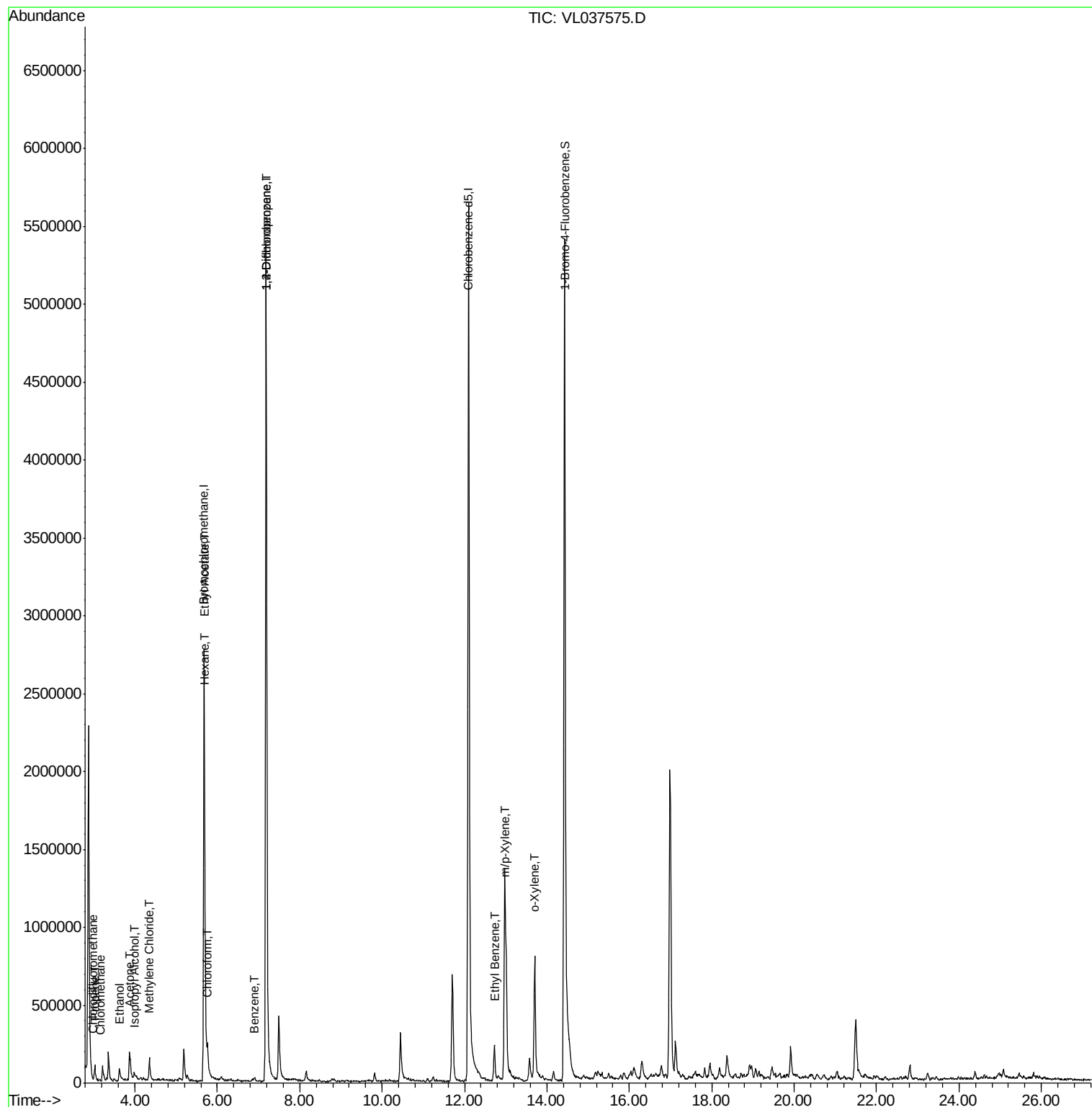
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	19052	0.060	ppbv #	79
4) Chloromethane	3.14	50	3565	0.031	ppbv #	76
9) Propene	3.02	41	20108	0.177	ppbv #	83
13) Ethanol	3.62	45	38742	3.503	ppbv #	1
15) Acetone	3.87	43	237132	1.405	ppbv #	65
19) Isopropyl Alcohol	3.99	45	21253	0.220	ppbv #	95
20) Methylene Chloride	4.36	84	46070	0.545	ppbv #	79
25) Ethyl Acetate	5.69	43	26069	0.061	ppbv #	75
26) Hexane	5.70	57	65955	0.315	ppbv #	53
29) Chloroform	5.76	83	88108	0.297	ppbv	95
36) Benzene	6.91	78	16582	0.040	ppbv #	75
39) 1,2-Dichloropropane	7.19	63	1154815	7.204	ppbv #	26
58) Ethyl Benzene	12.73	91	87232	0.148	ppbv	100
59) m/p-Xylene	13.01	91	440527	0.861	ppbv #	30
60) o-Xylene	13.70	91	660204	1.383	ppbv	99

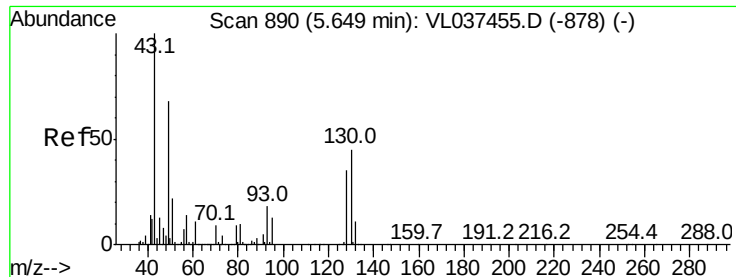
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleID :

IA-1DL

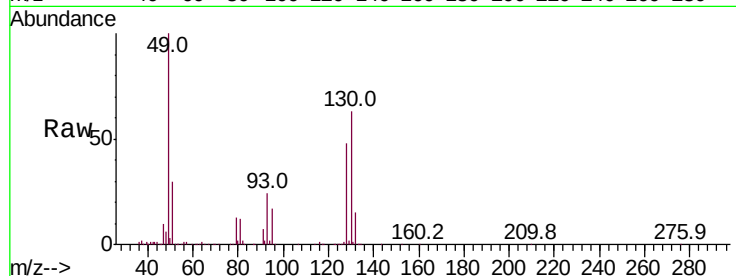
Tot Ion: 49 Resp: 1658773

Ion Ratio Lower Upper

49 100

128 53.6 27.5 82.4

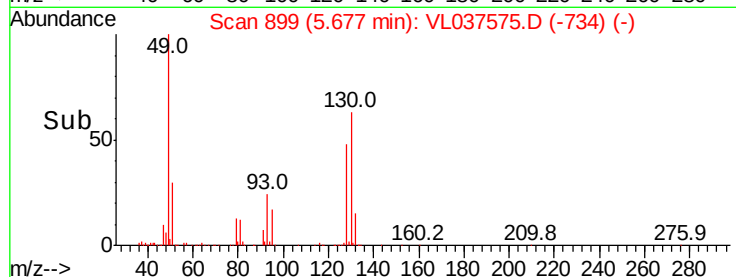
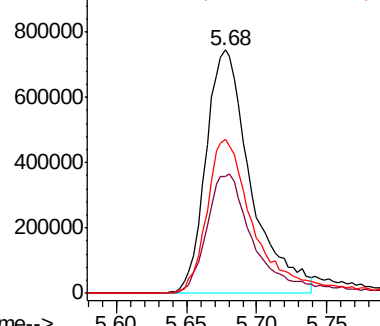
130 69.4 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037575.D

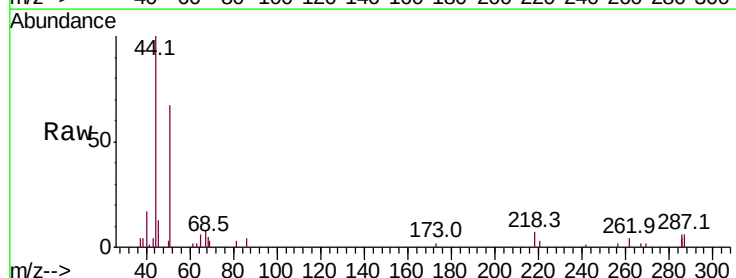
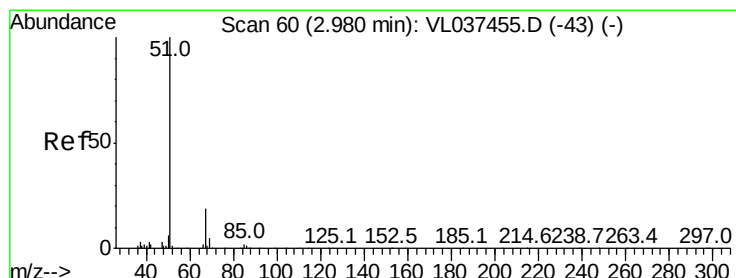
Acq: 8 Sep 2021 17:00

Tgt Ion: 51 Resp: 19052

Ion Ratio Lower Upper

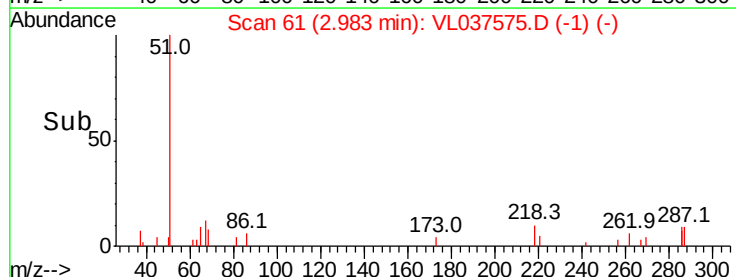
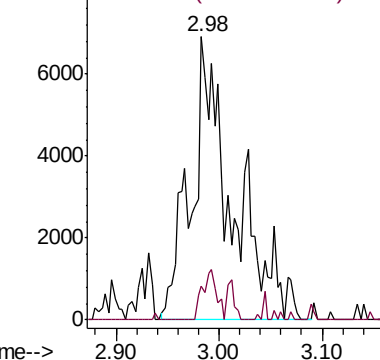
51 100

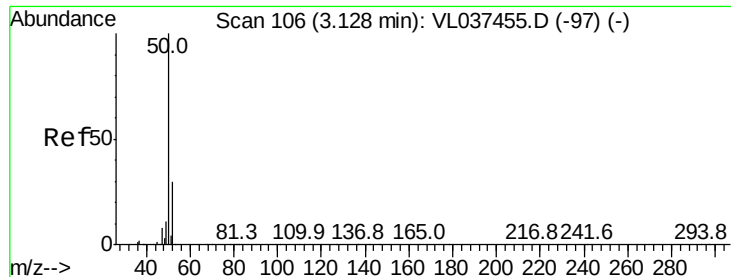
67 8.7 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleId :

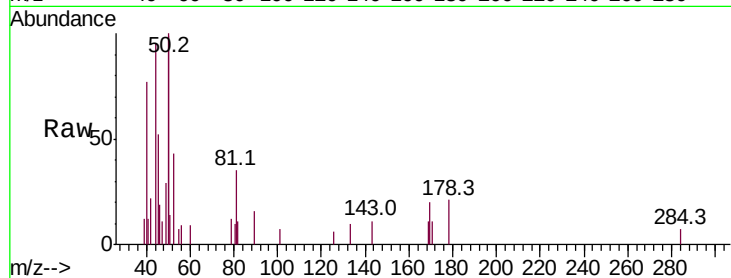
IA-1DL

Tot Ion: 50 Resp: 3565

Ion Ratio Lower Upper

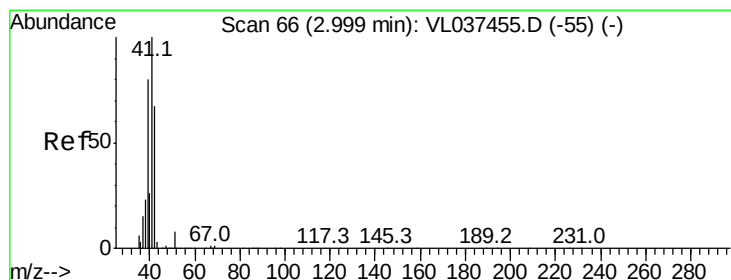
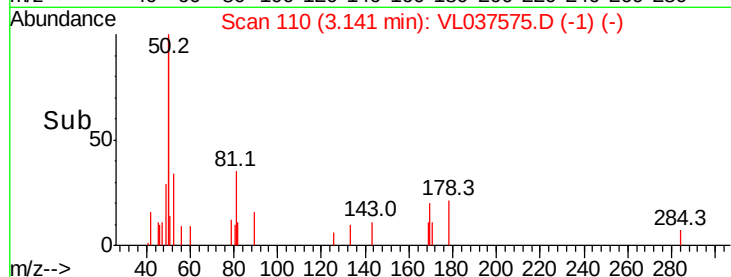
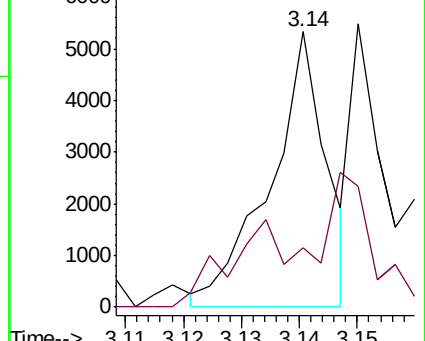
50 100

52 17.1 24.0 36.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.177 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.03 min

Lab File: VL037575.D

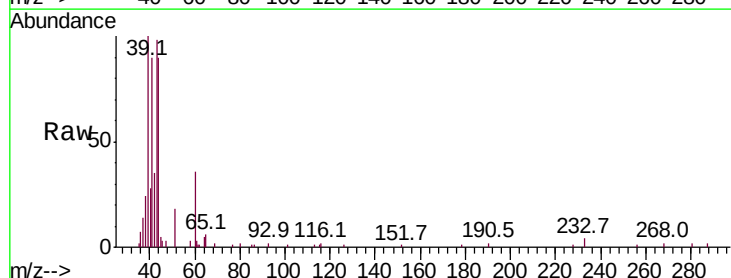
Acq: 8 Sep 2021 17:00

Tgt Ion: 41 Resp: 20108

Ion Ratio Lower Upper

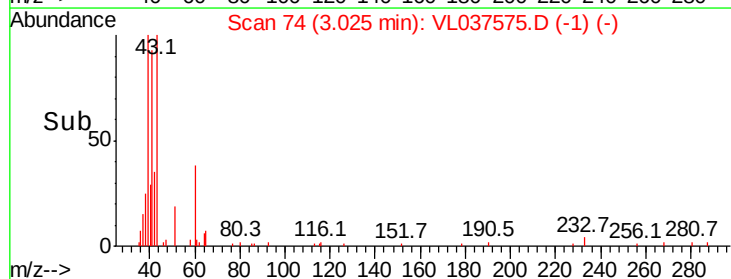
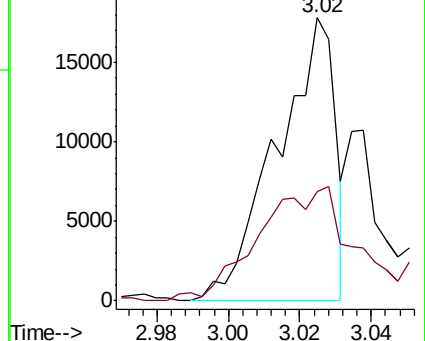
41 100

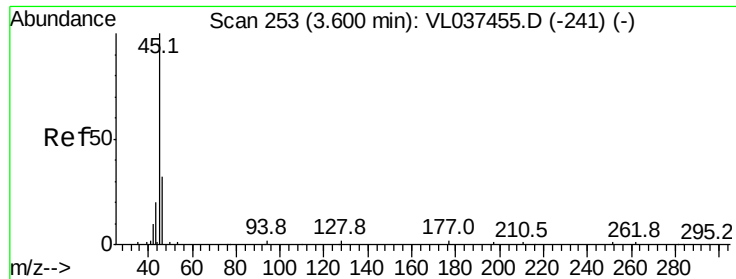
42 80.8 53.7 80.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

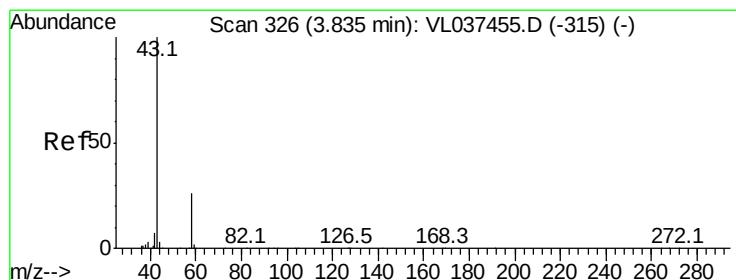
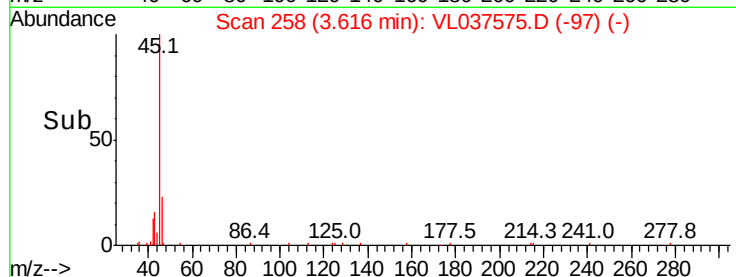
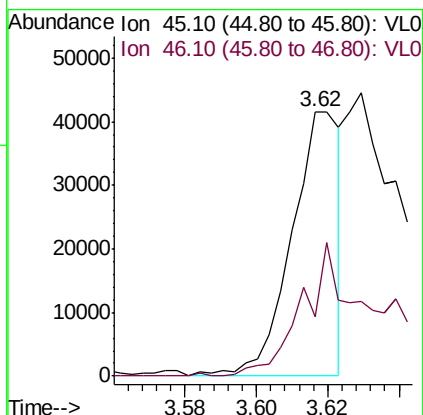
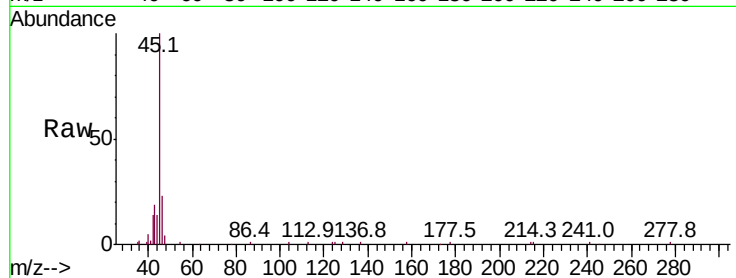




#13
Ethanol
Concen: 3.503 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

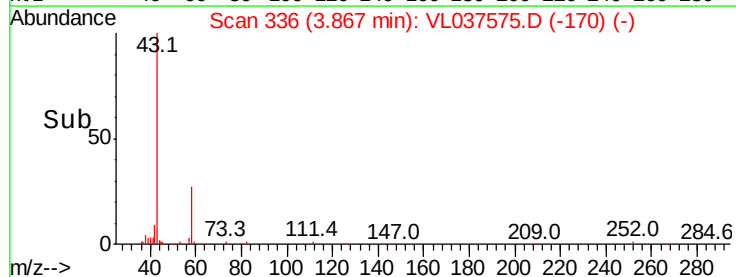
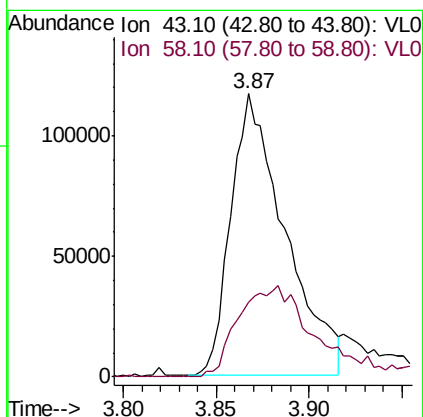
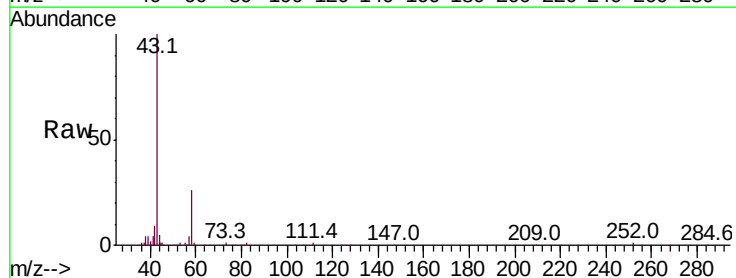
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

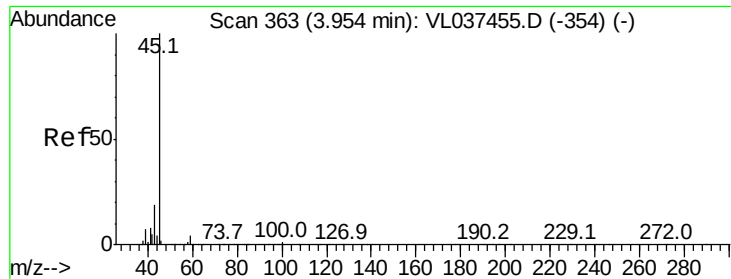
Tot Ion: 45 Resp: 38742
Ion Ratio Lower Upper
45 100
46 102.1 14.1 56.5#



#15
Acetone
Concen: 1.405 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

Tgt Ion: 43 Resp: 237132
Ion Ratio Lower Upper
43 100
58 50.1 24.8 37.2#





#19

Isopropyl Alcohol

Concen: 0.220 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleId :

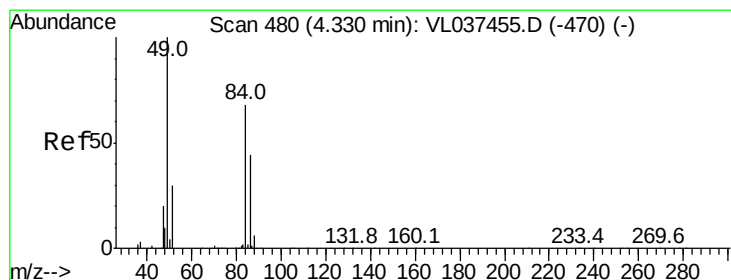
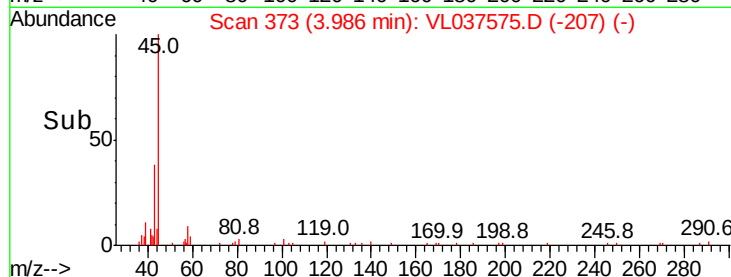
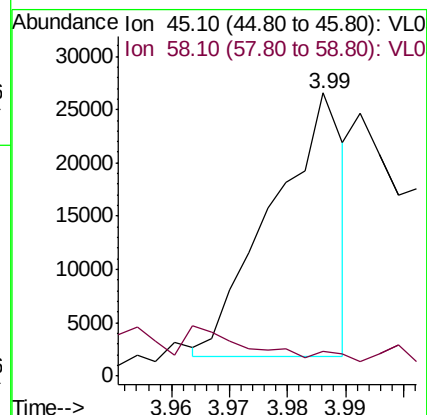
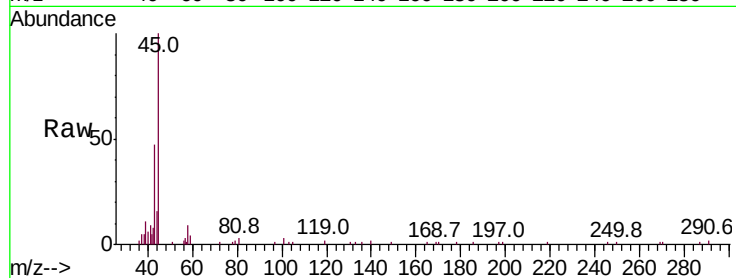
IA-1DL

Tot Ion: 45 Resp: 21253

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.545 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Tgt Ion: 84 Resp: 46070

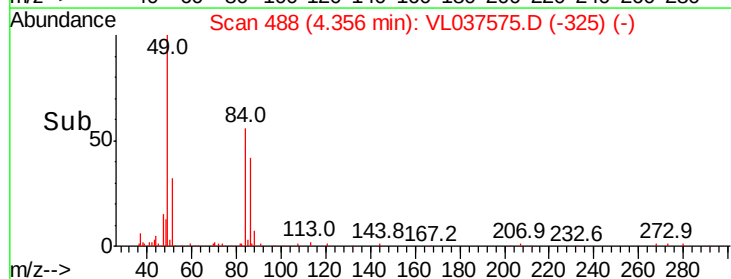
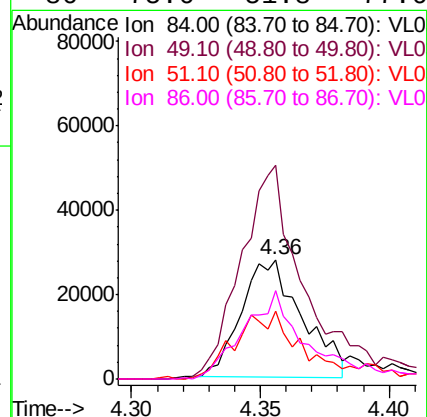
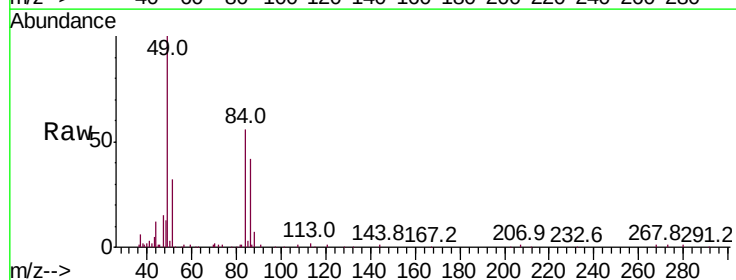
Ion Ratio Lower Upper

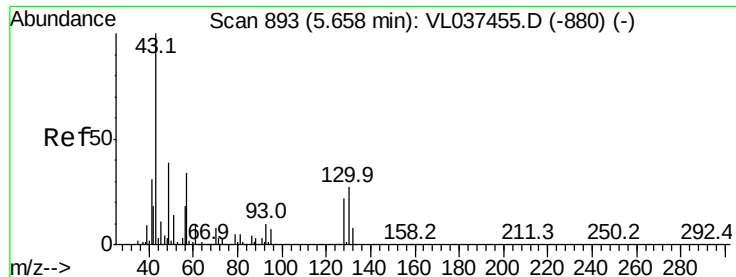
84 100

49 179.1 118.2 177.2#

51 56.1 36.6 55.0#

86 75.6 51.8 77.6





#25

Ethyl Acetate

Concen: 0.061 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tot Ion: 43 Resp: 26069

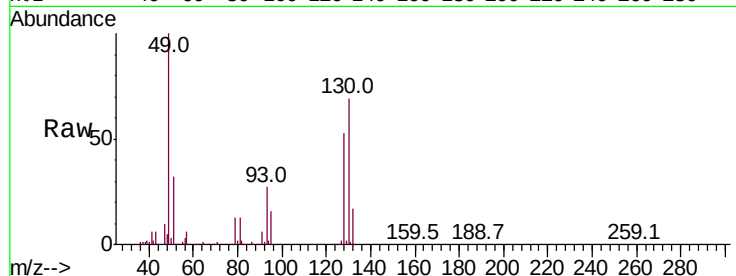
Ion Ratio Lower Upper

43 100

45 0.0 8.0 12.0#

61 0.0 8.0 12.0#

70 0.0 5.6 8.4#

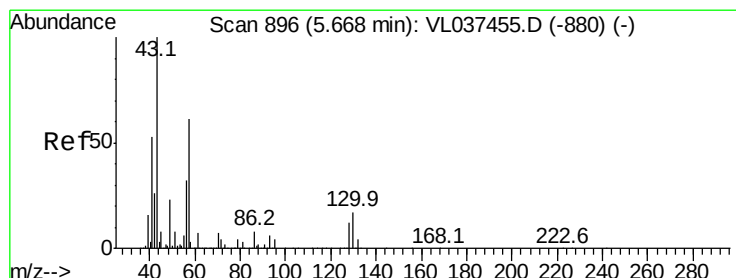
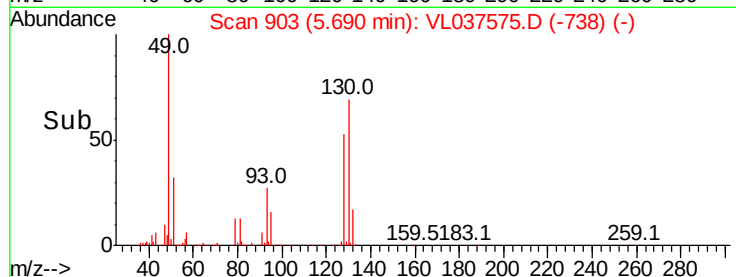
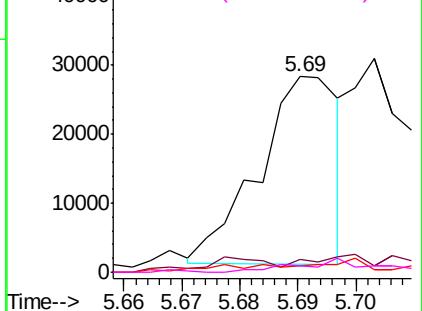


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.315 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Tgt Ion: 57 Resp: 65955

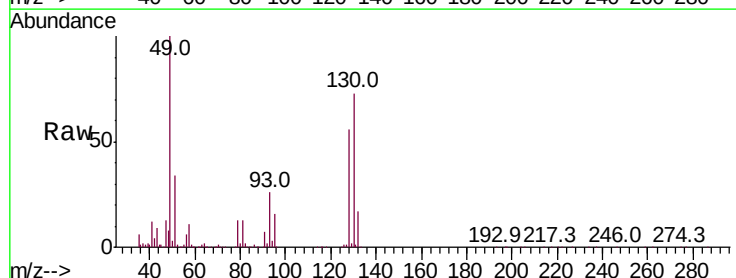
Ion Ratio Lower Upper

57 100

41 95.0 72.3 108.5

43 98.8 172.3 258.5#

56 60.1 42.8 64.2

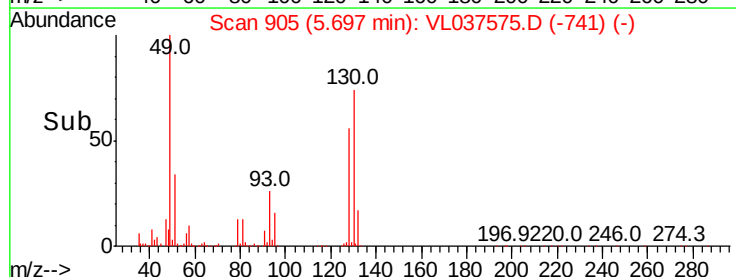
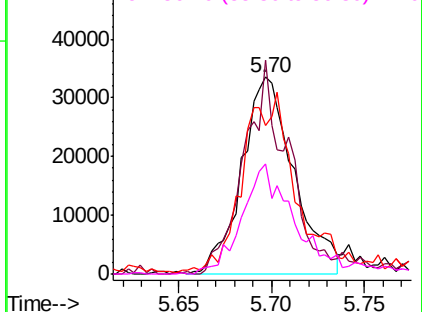


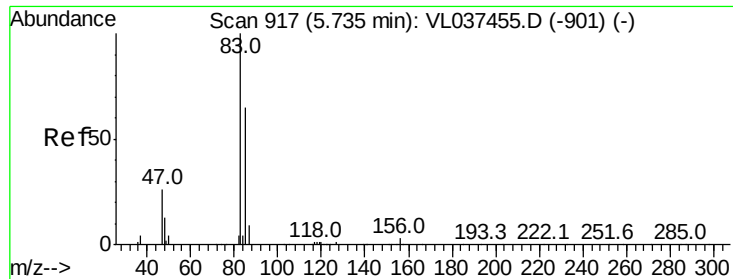
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

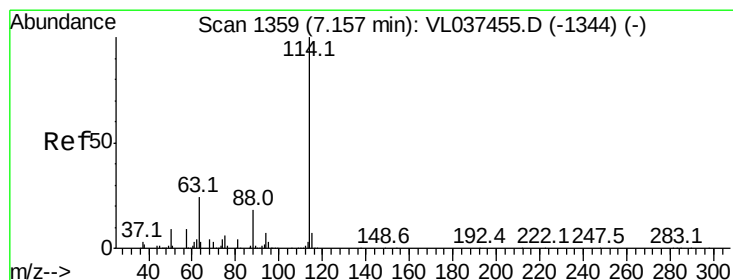
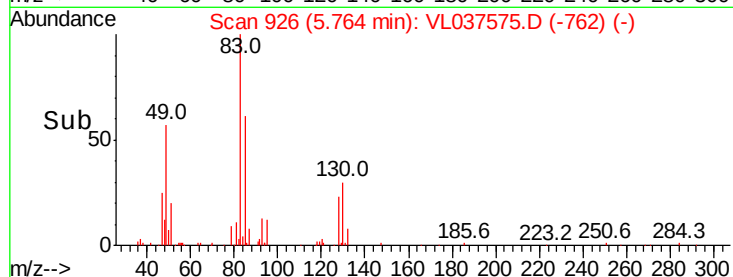
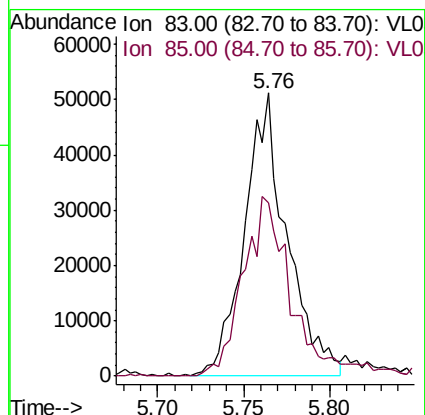
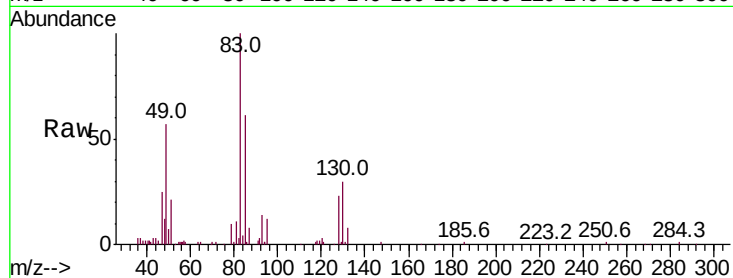




#29
Chloroform
Concen: 0.297 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.03 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

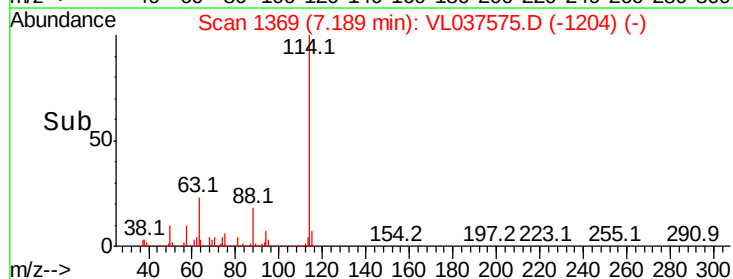
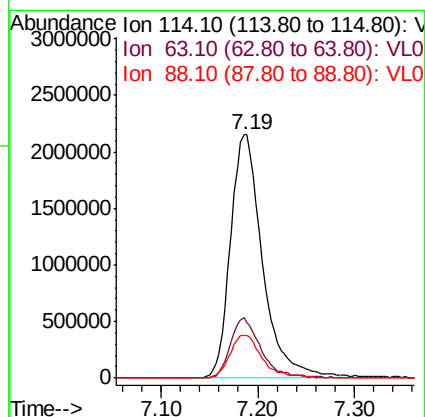
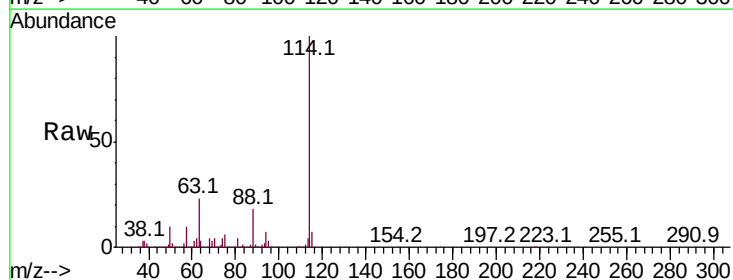
Instrument :
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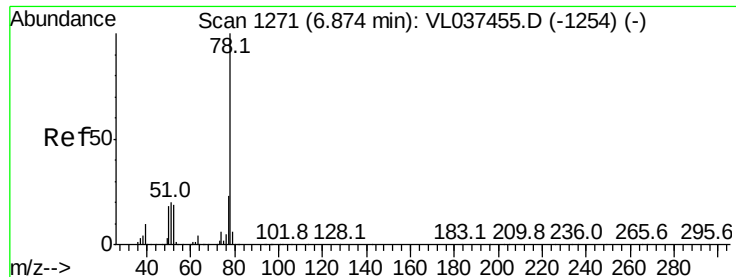
Tot Ion: 83 Resp: 88108
Ion Ratio Lower Upper
83 100
85 61.1 52.3 78.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.03 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

Tgt Ion: 114 Resp: 4962846
Ion Ratio Lower Upper
114 100
63 24.0 19.3 28.9
88 18.0 14.2 21.4





#36

Benzene

Concen: 0.040 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.03 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

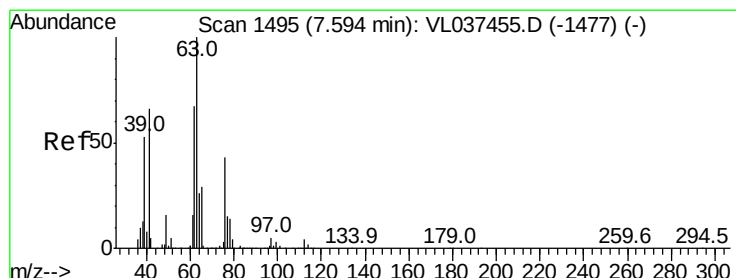
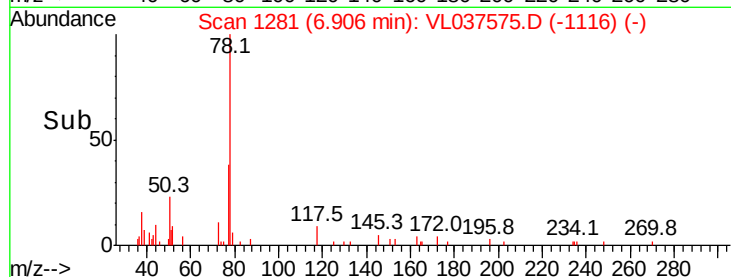
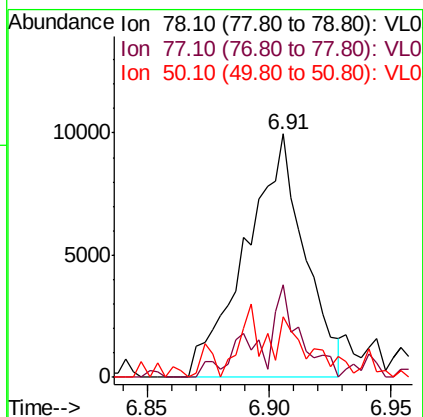
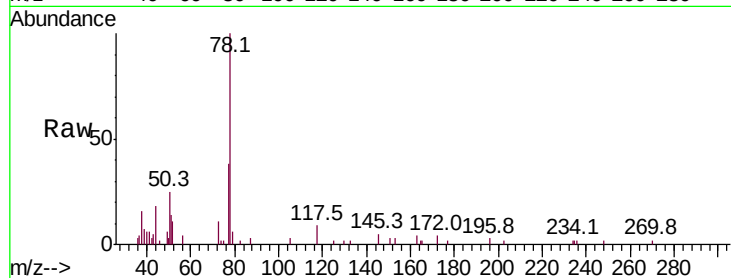
Tot Ion: 78 Resp: 16582

Ion Ratio Lower Upper

78 100

77 38.2 18.2 27.4#

50 25.1 14.6 21.8#



#39

1,2-Dichloropropane

Concen: 7.204 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.41 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

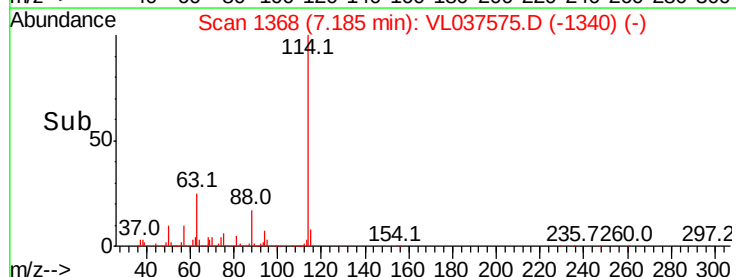
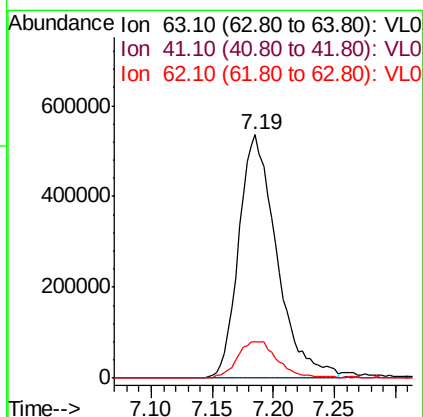
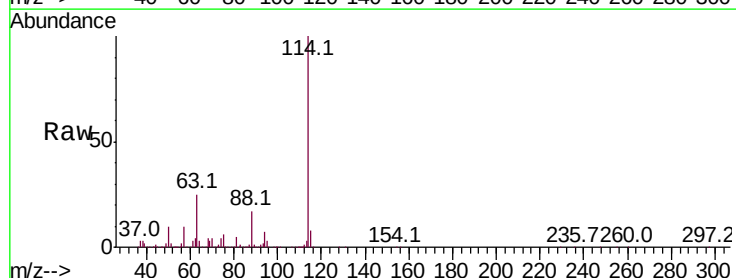
Tgt Ion: 63 Resp: 1154815

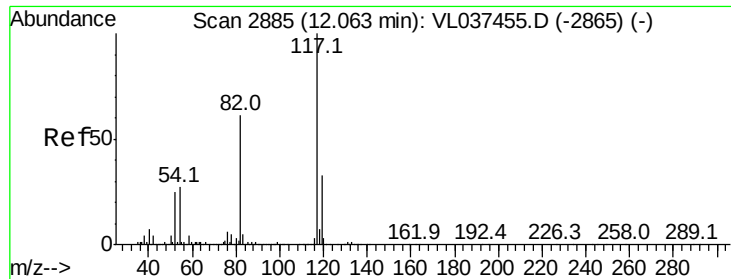
Ion Ratio Lower Upper

63 100

41 0.0 52.4 78.6#

62 14.9 53.6 80.4#

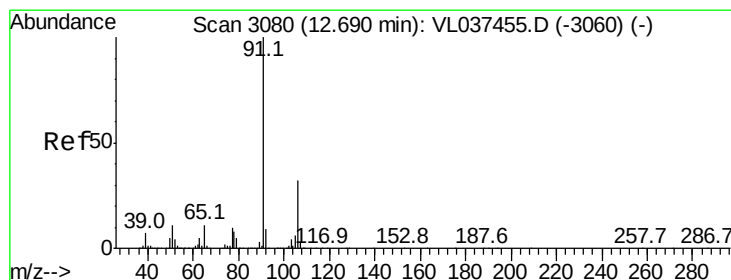
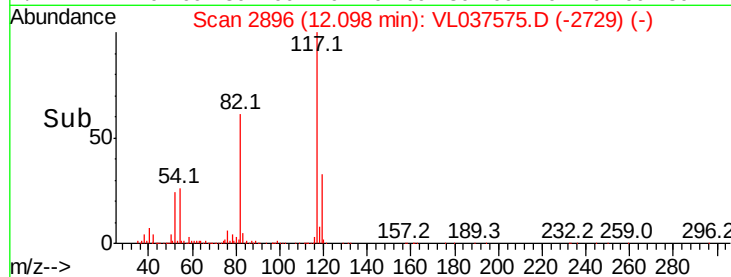
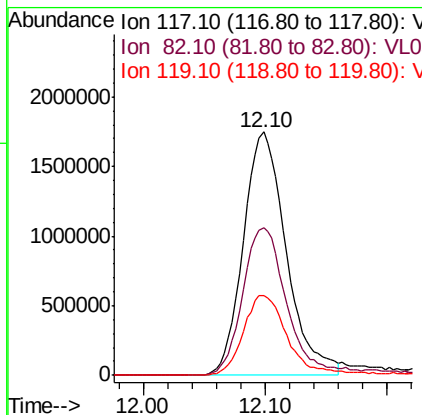
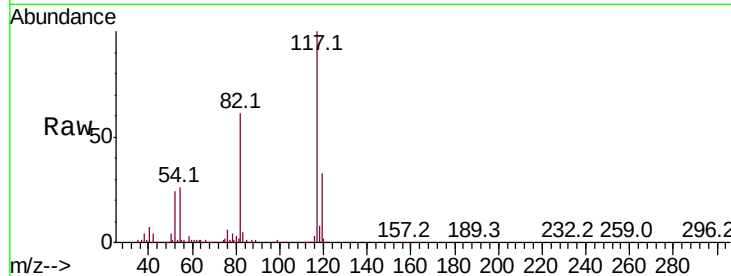




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. 0.04 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

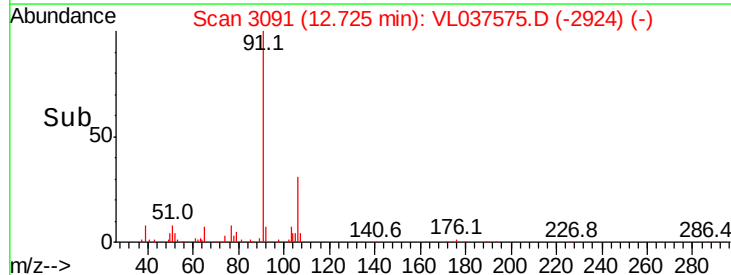
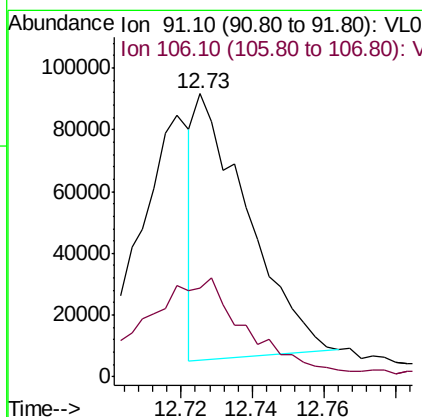
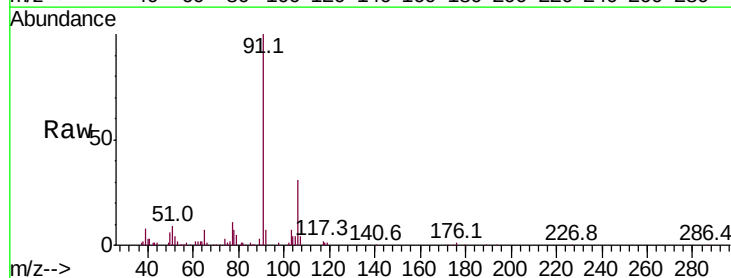
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

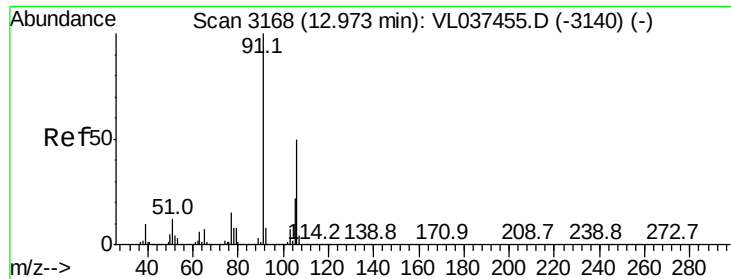
Tot Ion:117 Resp: 4250874
Ion Ratio Lower Upper
117 100
82 65.1 52.9 79.3
119 35.3 24.8 37.2



#58
Ethyl Benzene
Concen: 0.148 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. 0.04 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

Tgt Ion: 91 Resp: 87232
Ion Ratio Lower Upper
91 100
106 32.0 25.7 38.5

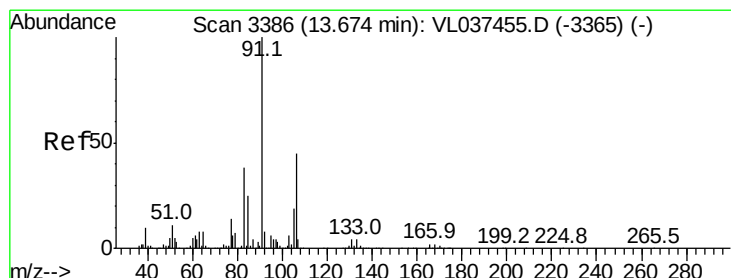
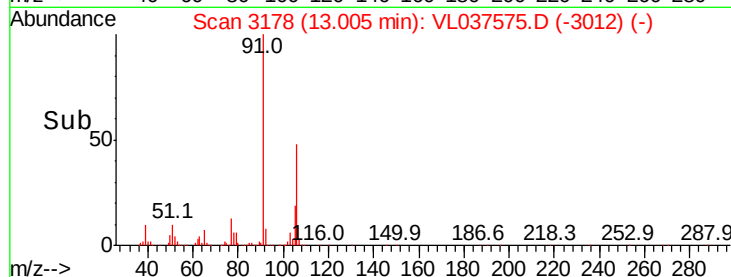
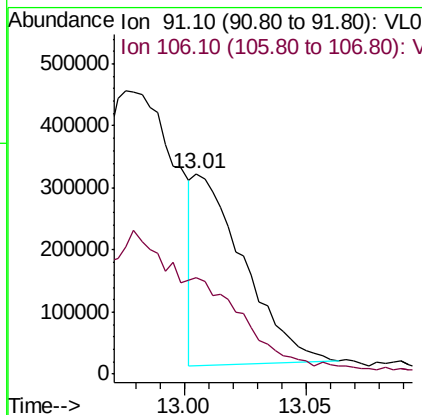
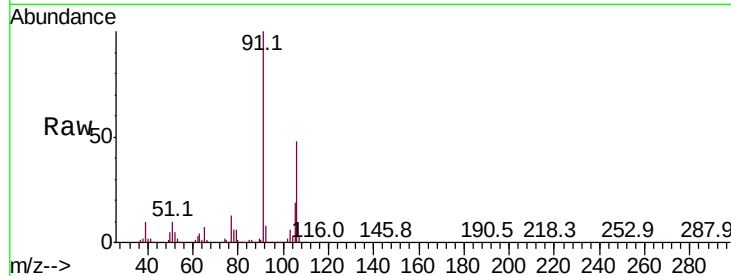




#59
m/p-Xylene
Concen: 0.861 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. 0.03 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

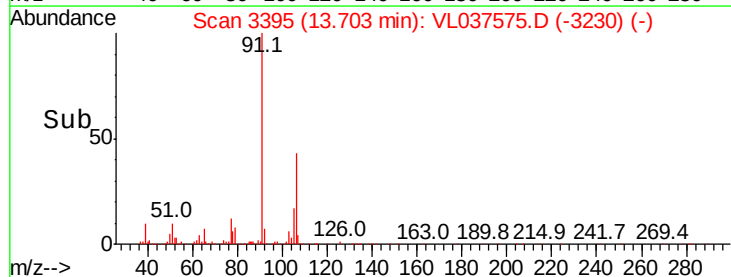
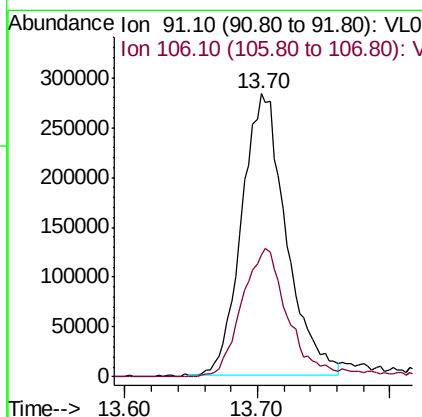
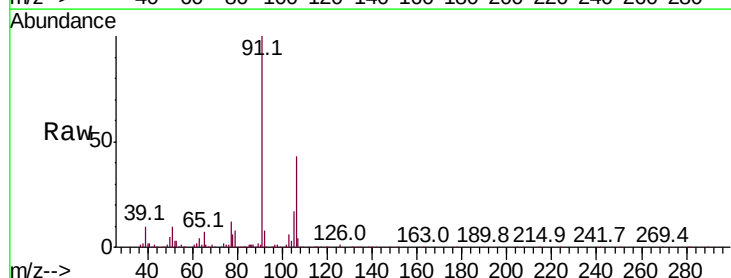
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

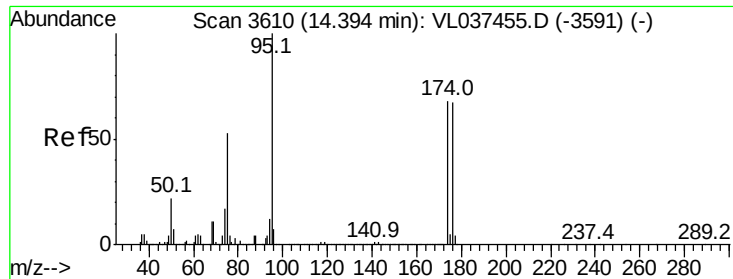
Tot Ion: 91 Resp: 440527
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#



#60
o-Xylene
Concen: 1.383 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.03 min
Lab File: VL037575.D
Acq: 8 Sep 2021 17:00

Tgt Ion: 91 Resp: 660204
Ion Ratio Lower Upper
91 100
106 48.2 23.7 71.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.919 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.04 min

Lab File: VL037575.D

Acq: 8 Sep 2021 17:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

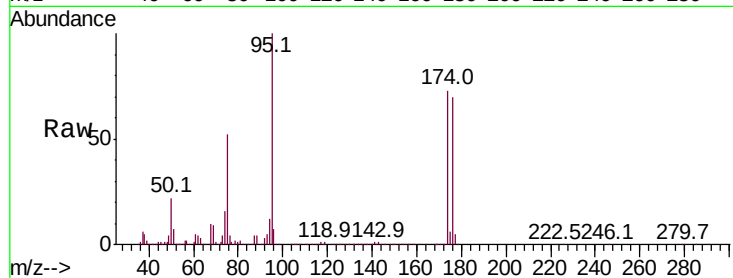
Tot Ion: 95 Resp: 2995693

Ion Ratio Lower Upper

95 100

174 80.3 59.6 89.4

175 5.5 4.6 7.0



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

