

Data File : VL037459.D

Acq On : 16 Aug 2021 13:00

Operator : SY/AP

Sample : VSTDIC0.1

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Quant Time: Aug 16 13:42:59 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 11:33:04 2021

QLast Update : Mon Aug 16 11:33:04 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1513385	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4527685	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3859440	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2711598	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.17	85	24301	0.105	ppbv	99
3) Chlorodifluoromethane	2.98	51	31555	0.106	ppbv	99
5) Vinyl Chloride	3.25	62	6018	0.051	ppbv	96
6) Bromomethane	3.46	94	2109	0.035	ppbv	83
7) Chloroethane	3.55	64	1565	0.040	ppbv #	69
8) Dichlorotetrafluoroethane	3.17	85	24301	0.094	ppbv	92
9) Propene	3.00	41	5542	0.056	ppbv #	1
10) Heptane	8.10	43	14377	0.059	ppbv #	24
11) Trichlorofluoromethane	3.94	101	21917	0.088	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5436	0.031	ppbv #	10
13) Ethanol	3.61	45	619	0.058	ppbv #	39
14) Bromoethene	3.73	108	4240	0.054	ppbv #	9
15) Acetone	3.87	43	29781	0.186	ppbv #	1
16) 1,3-Butadiene	3.32	39	4106	0.038	ppbv #	1
18) 1,1-Dichloroethene	4.28	96	3233	0.040	ppbv #	12
20) Methylene Chloride	4.33	84	9499	0.112	ppbv	86
21) Allyl Chloride	4.40	41	7814	0.062	ppbv #	18
22) trans-1,2-Dichloroethene	4.87	96	3145	0.041	ppbv #	21
24) 1,1-Dichloroethane	5.00	63	6037	0.032	ppbv	96
26) Hexane	5.68	57	7585	0.038	ppbv #	1
27) Carbon Disulfide	4.54	76	7783	0.047	ppbv #	57
31) cis-1,2-Dichloroethene	5.54	61	10921	0.064	ppbv #	75
32) 1,1,1-Trichloroethane	6.50	97	24799	0.088	ppbv	90
35) Carbon Tetrachloride	7.00	117	21477	0.077	ppbv #	90
36) Benzene	6.87	78	16696	0.044	ppbv	97
37) 1,2-Dichloroethane	6.29	62	9640	0.049	ppbv #	78
38) Trichloroethene	7.82	130	12847	0.076	ppbv #	68
39) 1,2-Dichloropropane	7.16	63	1031666	7.094	ppbv #	27
44) 2,2,4-Trimethylpentane	7.86	57	20788	0.033	ppbv #	42
48) Dibromochloromethane	10.28	129	8876	0.039	ppbv #	8
52) Tetrachloroethene	11.20	164	5501	0.034	ppbv #	15
53) Toluene	9.78	91	21866	0.050	ppbv #	63
54) 1,2-Dibromoethane	10.58	107	6610	0.031	ppbv	96
57) Chlorobenzene	12.12	112	18810	0.060	ppbv #	74
58) Ethyl Benzene	12.69	91	40743	0.078	ppbv	91
59) m/p-Xylene	12.98	91	23412	0.051	ppbv #	56
60) o-Xylene	13.67	91	31139	0.073	ppbv	79
62) Isopropylbenzene	14.65	105	37138	0.061	ppbv #	65
63) 1,1,2,2-Tetrachloroethane	13.66	83	11925	0.037	ppbv #	1
65) tert-Butylbenzene	16.73	119	26626	0.048	ppbv #	22
66) Benzyl Chloride	16.97	91	770	0.031	ppbv #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081621\
Quantitation Report (Not Reviewed)

Data File : VL037459.D
Acq On : 16 Aug 2021 13:00
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

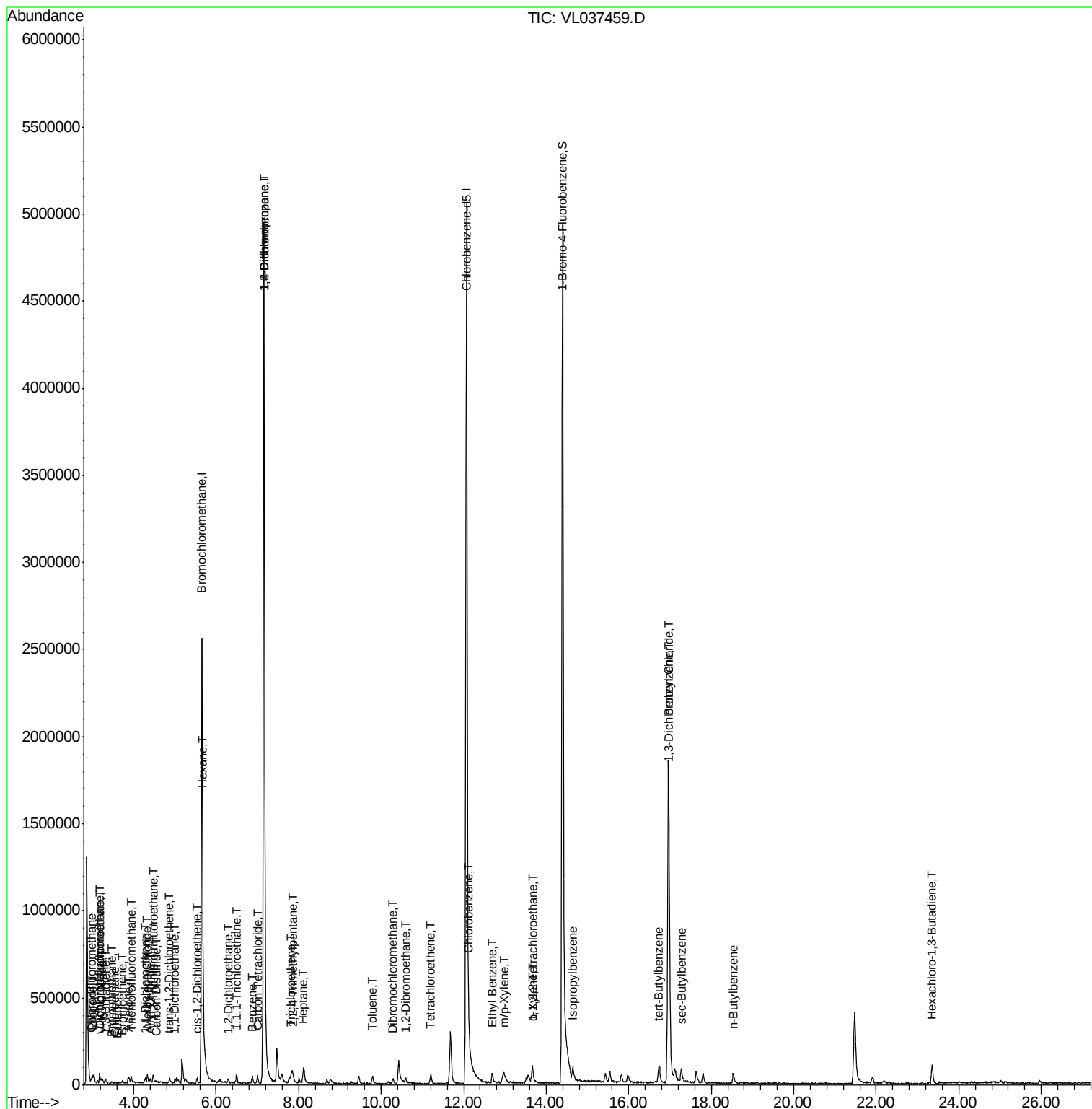
Quant Time: Aug 16 13:42:59 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 11:33:04 2021
QLast Update : Mon Aug 16 11:33:04 2021
Response via : Initial Calibration

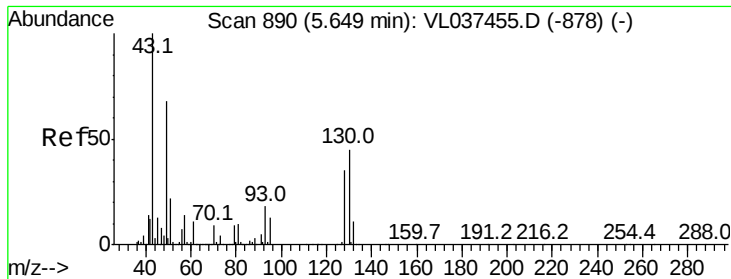
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	17.27	105	55135	0.074	ppbv	92
70) n-Butylbenzene	18.53	91	20665	0.036	ppbv #	32
75) 1,3-Dichlorobenzene	16.99	146	11136	0.038	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	11377	0.050	ppbv #	1

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

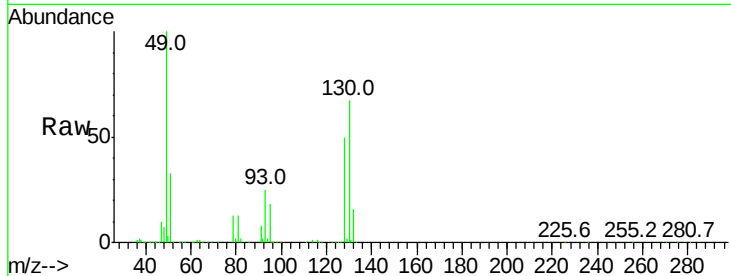
Tgt Ion: 49 Resp: 1513385

Ion Ratio Lower Upper

49 100

128 55.2 27.5 82.4

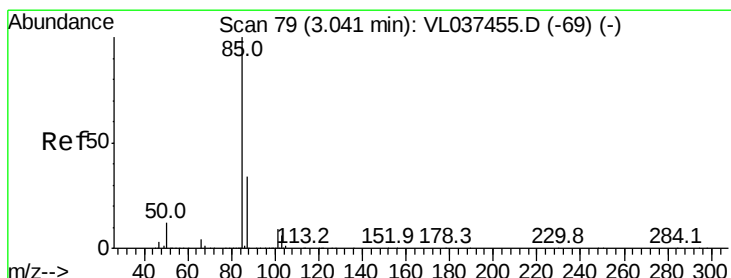
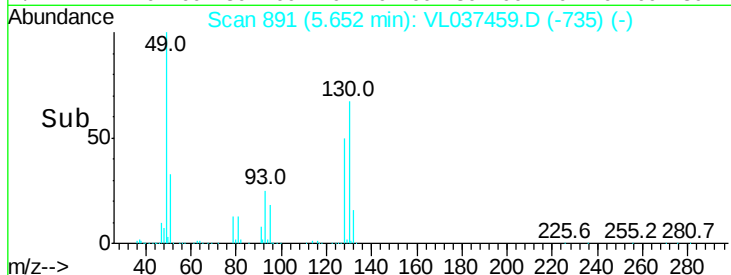
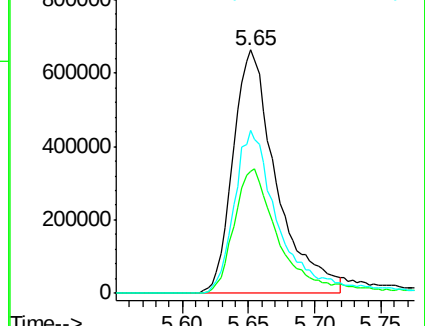
130 71.3 34.0 101.8



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: 0.105 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.13 min

Lab File: VL037459.D

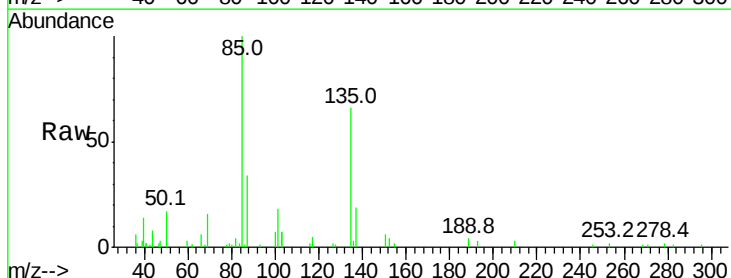
Acq: 16 Aug 2021 13:00

Tgt Ion: 85 Resp: 24301

Ion Ratio Lower Upper

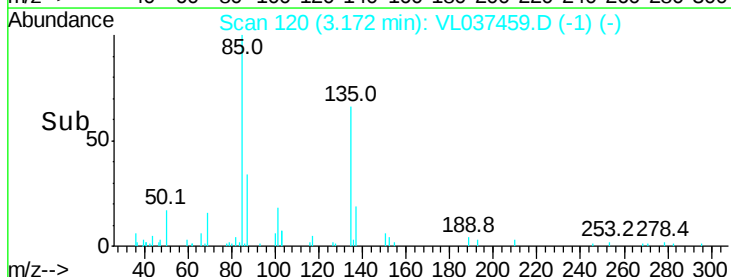
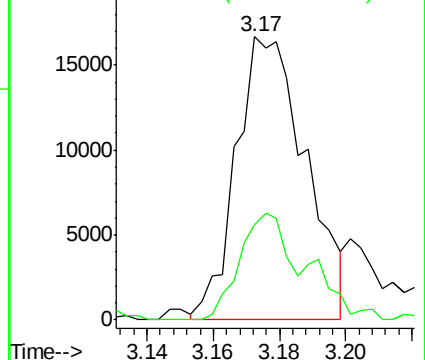
85 100

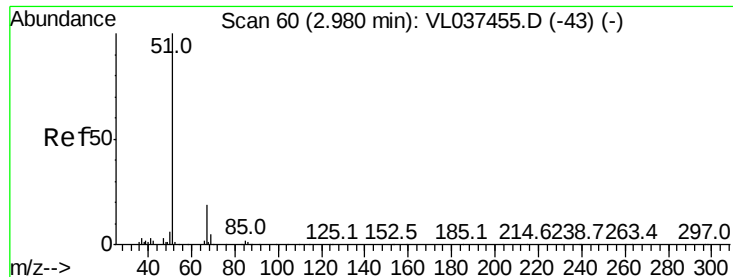
87 34.1 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.106 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

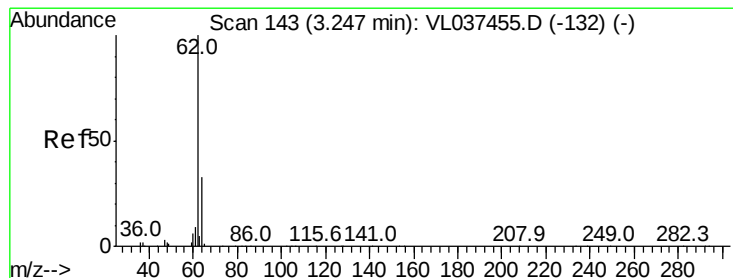
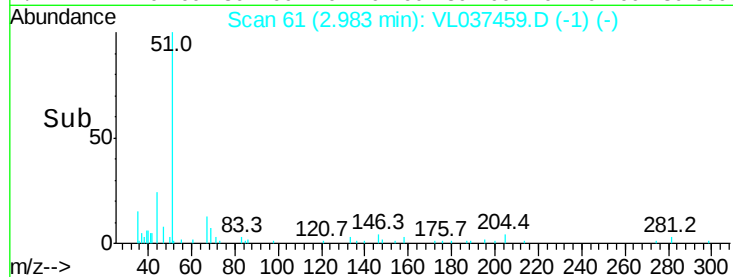
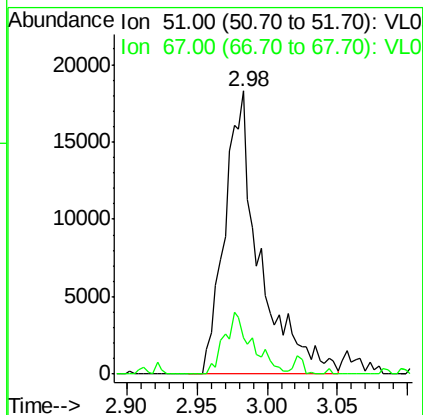
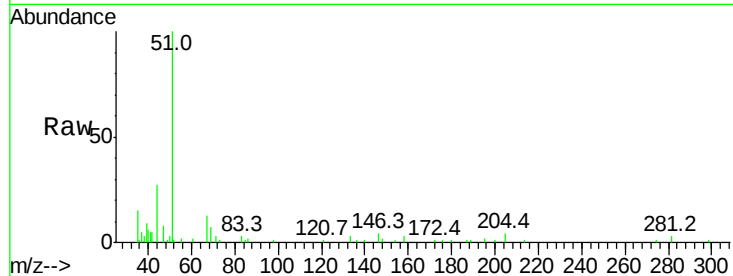
VSTDIC0.1

Tgt Ion: 51 Resp: 31555

Ion Ratio Lower Upper

51 100

67 17.4 14.2 21.2



#5

Vinyl Chloride

Concen: 0.051 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL037459.D

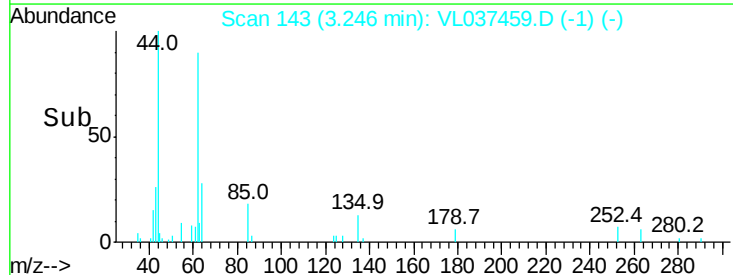
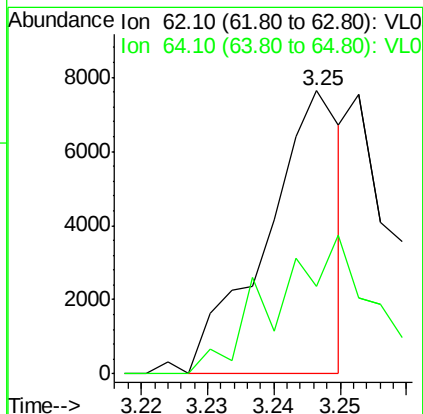
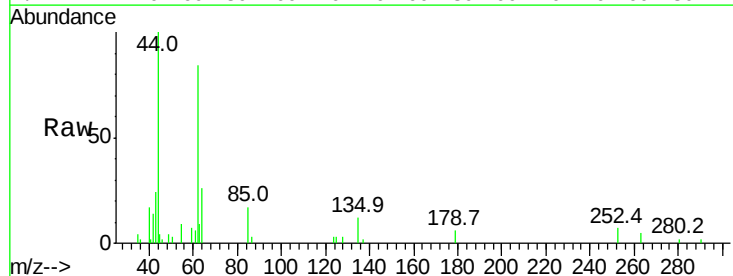
Acq: 16 Aug 2021 13:00

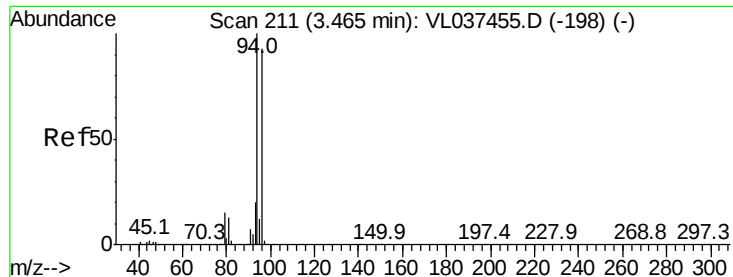
Tgt Ion: 62 Resp: 6018

Ion Ratio Lower Upper

62 100

64 31.1 26.5 39.7





#6

Bromomethane

Concen: 0.035 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

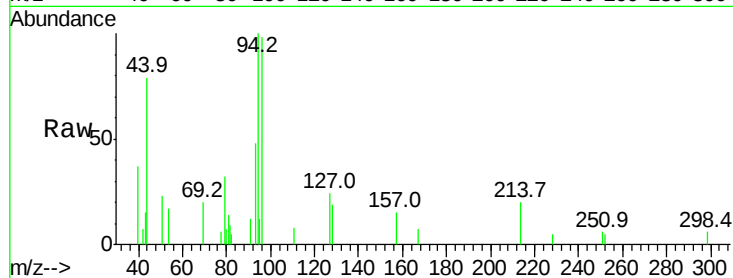
VSTDIC0.1

Tgt Ion: 94 Resp: 2109

Ion Ratio Lower Upper

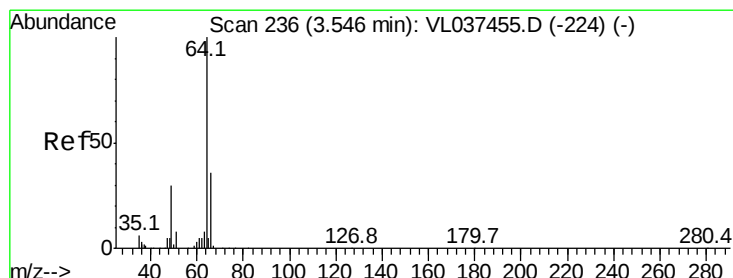
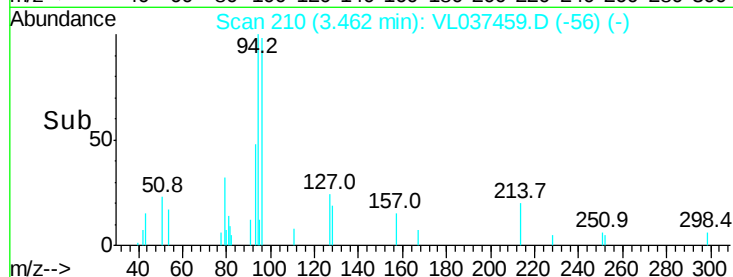
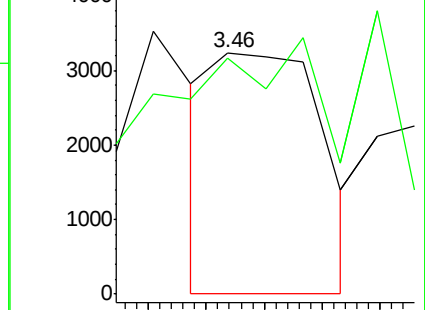
94 100

96 76.8 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.040 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037459.D

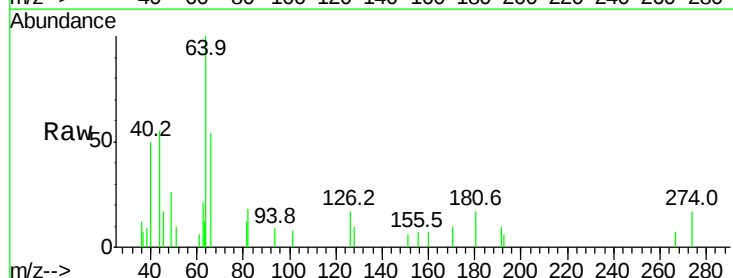
Acq: 16 Aug 2021 13:00

Tgt Ion: 64 Resp: 1565

Ion Ratio Lower Upper

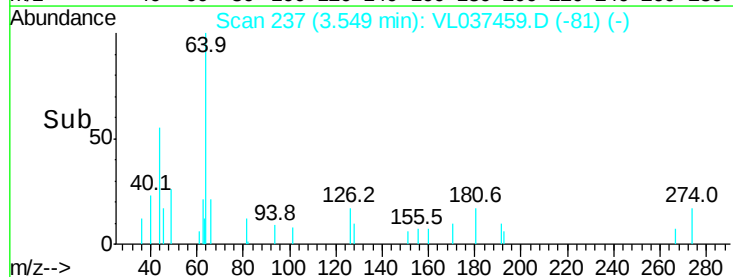
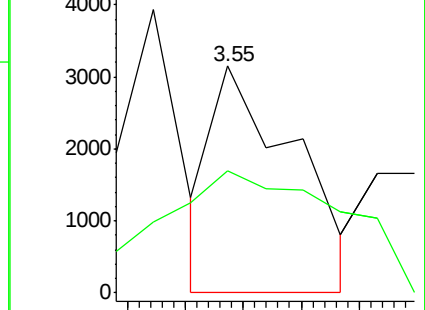
64 100

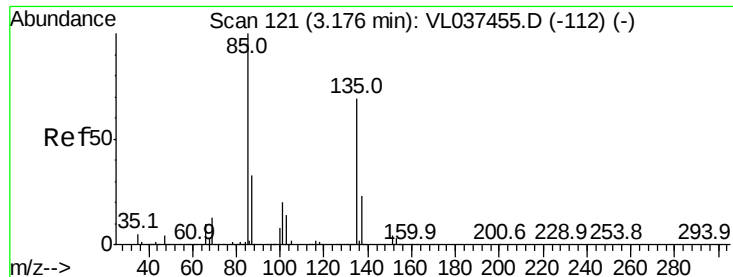
66 54.0 28.6 43.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.094 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

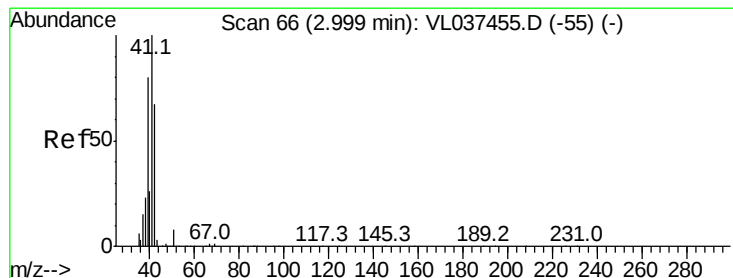
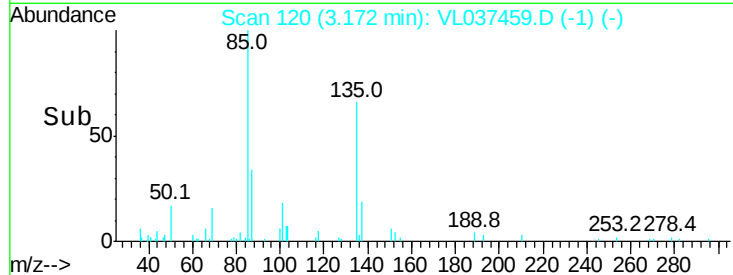
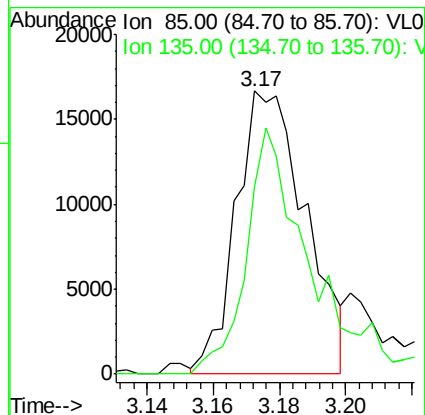
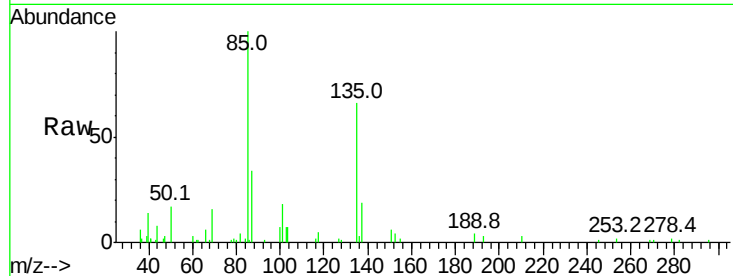
VSTDIC0.1

Tgt Ion: 85 Resp: 24301

Ion Ratio Lower Upper

85 100

135 80.3 58.8 88.2



#9

Propene

Concen: 0.056 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL037459.D

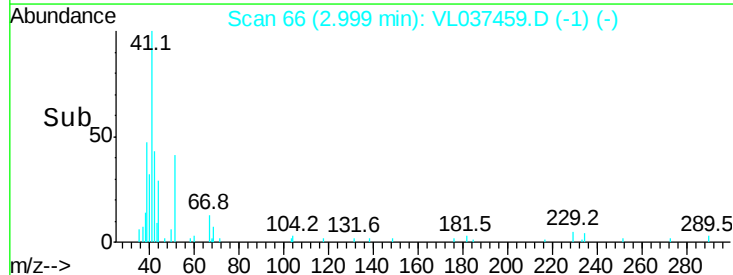
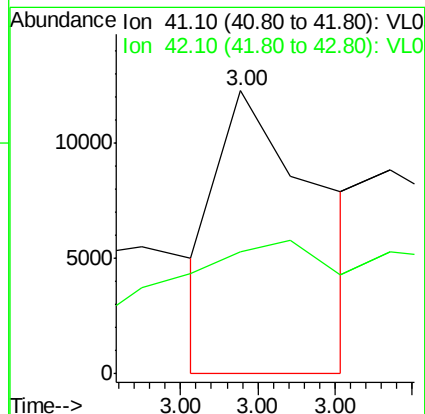
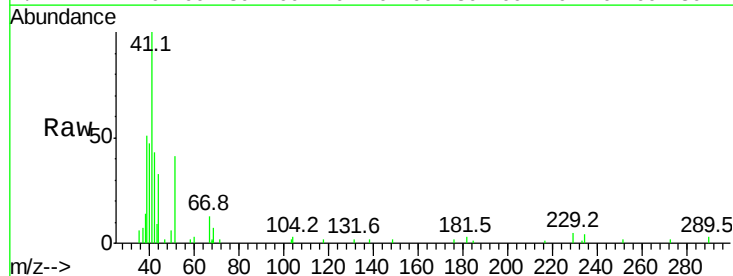
Acq: 16 Aug 2021 13:00

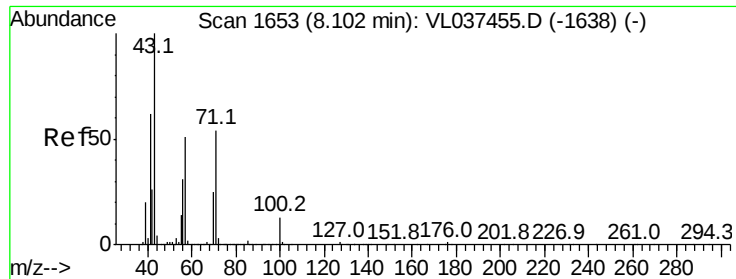
Tgt Ion: 41 Resp: 5542

Ion Ratio Lower Upper

41 100

42 225.3 53.7 80.5#

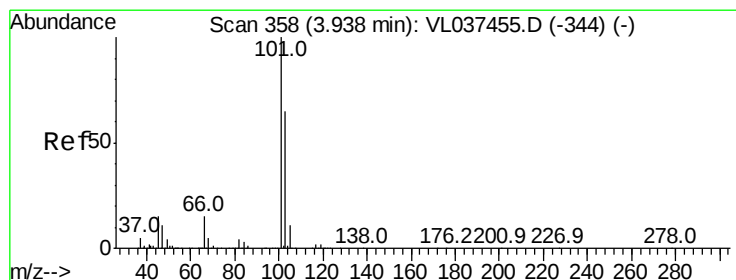
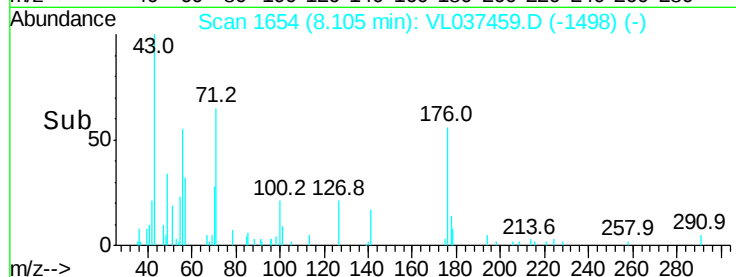
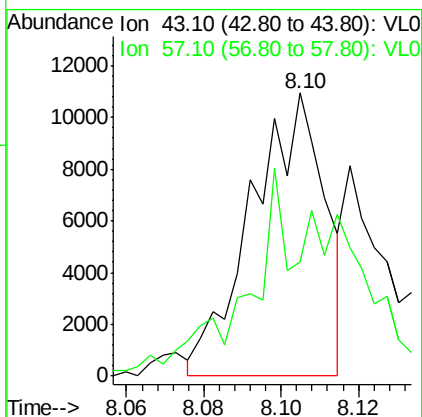
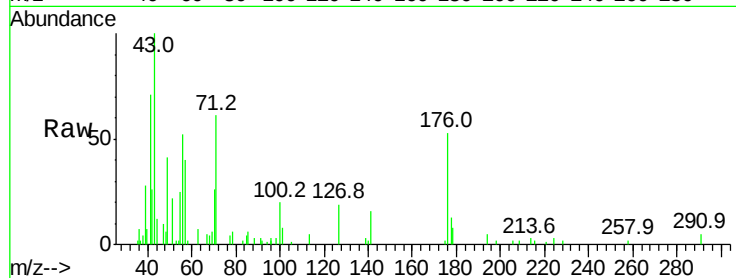




#10
Heptane
Concen: 0.059 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

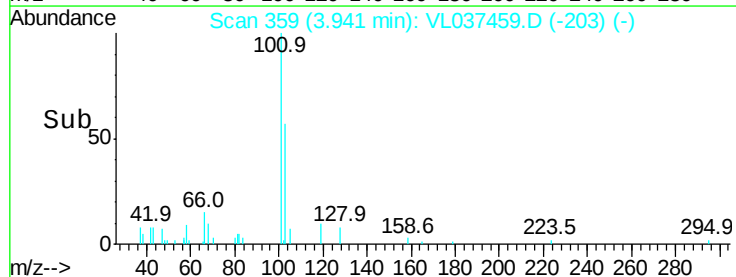
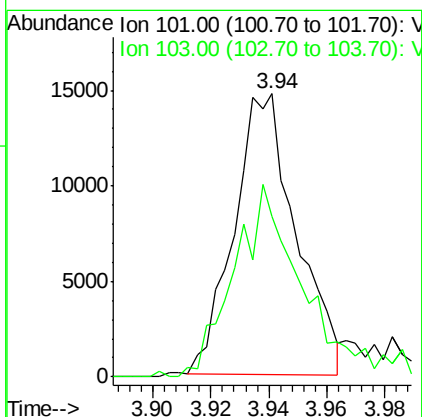
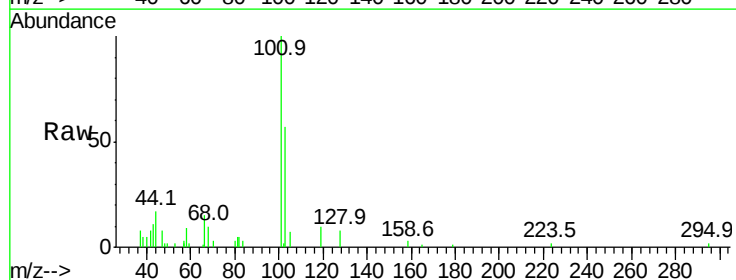
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

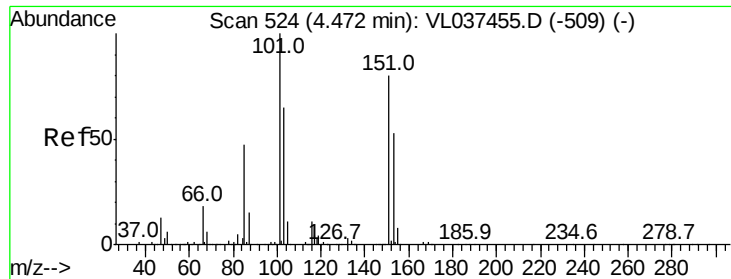
Tgt Ion: 43 Resp: 14377
Ion Ratio Lower Upper
43 100
57 104.6 41.0 61.6#



#11
Trichlorofluoromethane
Concen: 0.088 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.00 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

Tgt Ion: 101 Resp: 21917
Ion Ratio Lower Upper
101 100
103 53.9 51.8 77.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

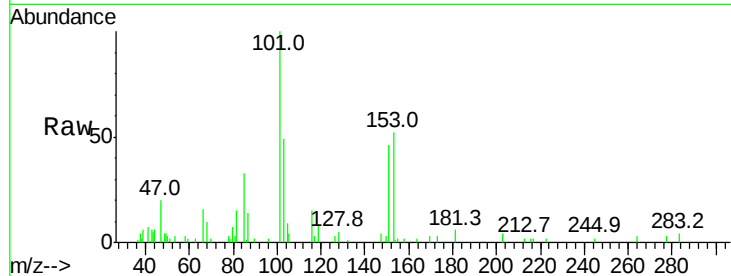
VSTDIC0.1

Tgt Ion:101 Resp: 5436

Ion Ratio Lower Upper

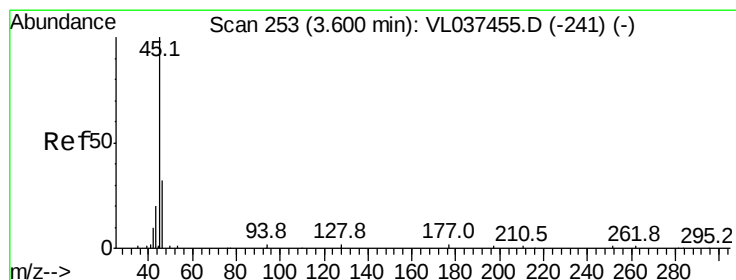
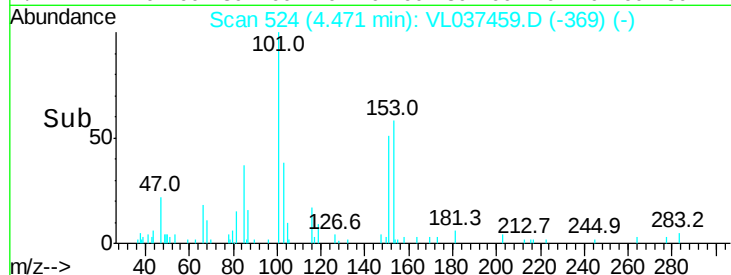
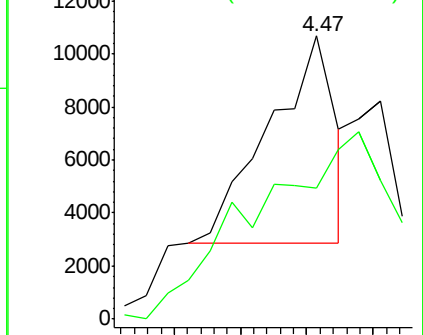
101 100

151 0.0 63.7 95.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.058 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL037459.D

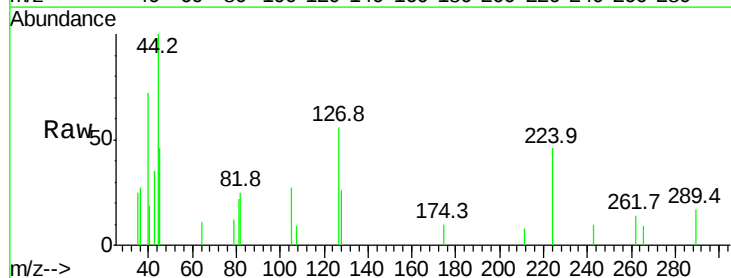
Acq: 16 Aug 2021 13:00

Tgt Ion: 45 Resp: 619

Ion Ratio Lower Upper

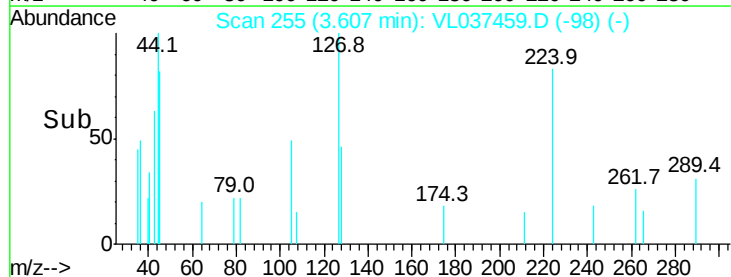
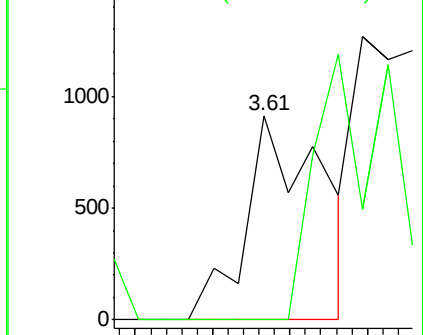
45 100

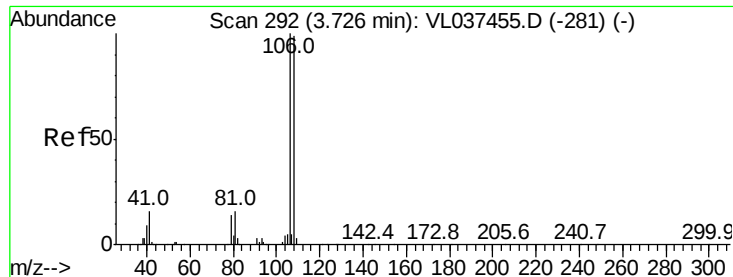
46 0.0 14.1 56.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.054 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

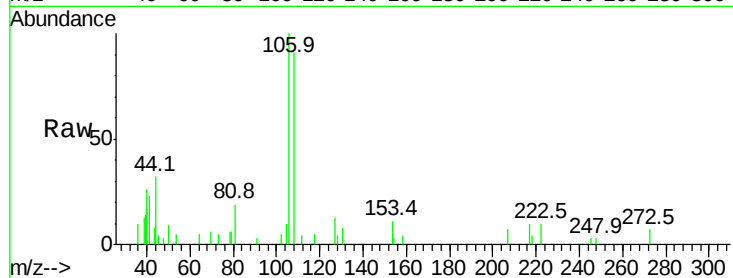
Tgt Ion:108 Resp: 4240

Ion Ratio Lower Upper

108 100

106 210.1 85.8 128.8#

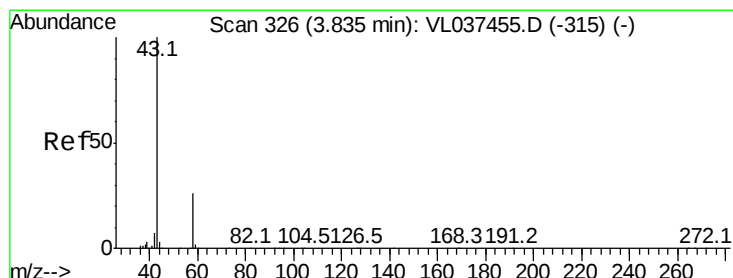
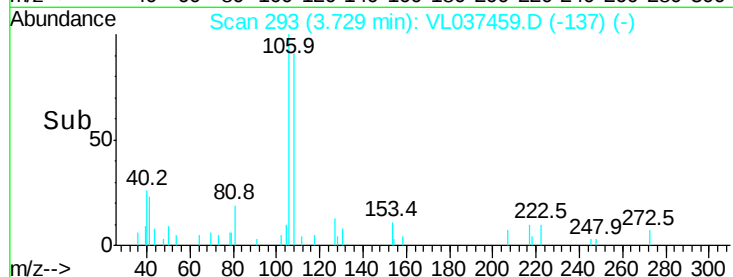
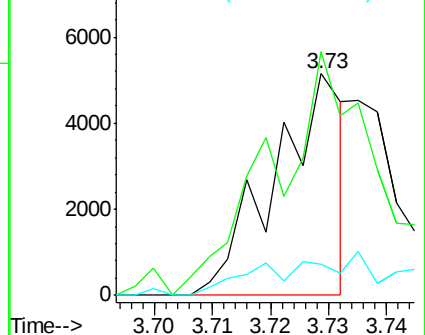
79 0.0 12.6 18.8#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.186 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.04 min

Lab File: VL037459.D

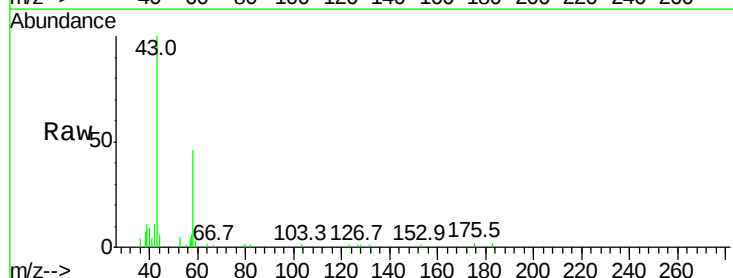
Acq: 16 Aug 2021 13:00

Tgt Ion: 43 Resp: 29781

Ion Ratio Lower Upper

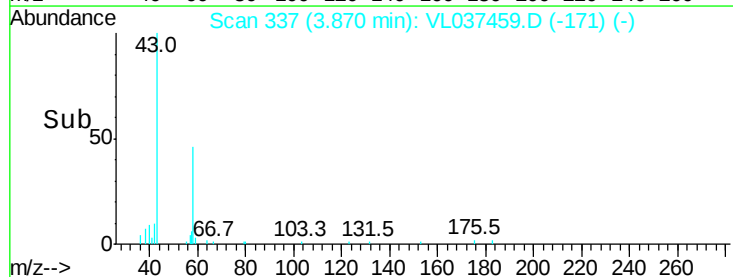
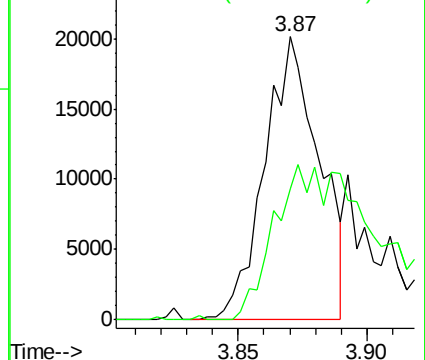
43 100

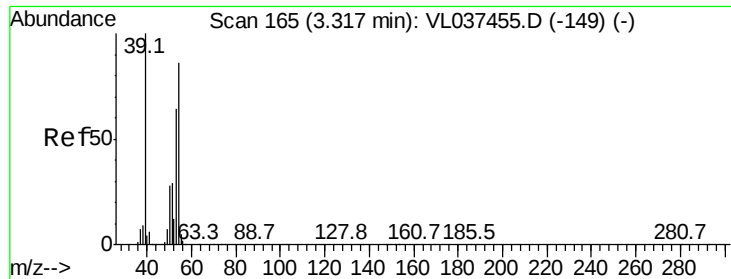
58 111.6 24.8 37.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

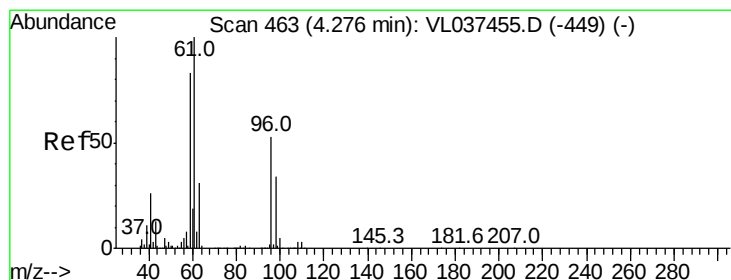
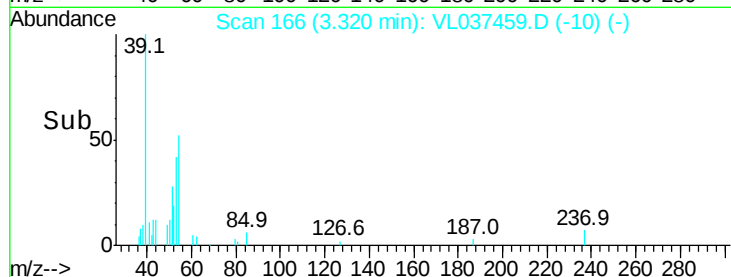
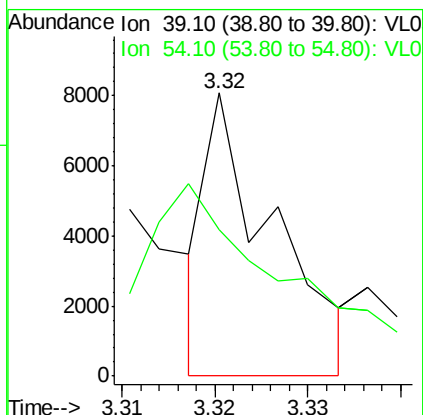
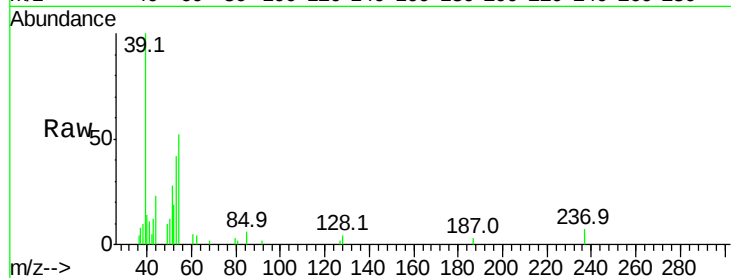




#16
 1,3-Butadiene
 Concen: 0.038 ppbv
 RT: 3.32 min Scan# 166
 Delta R.T. 0.00 min
 Lab File: VL037459.D
 Acq: 16 Aug 2021 13:00

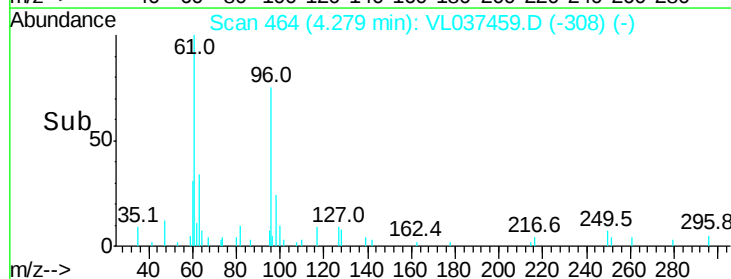
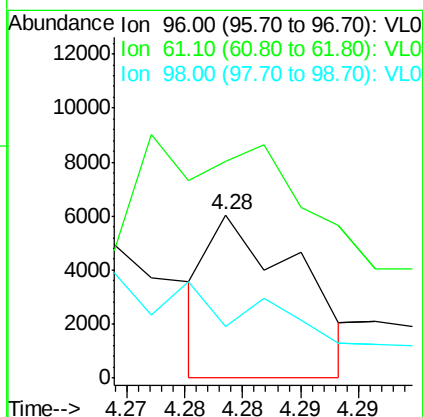
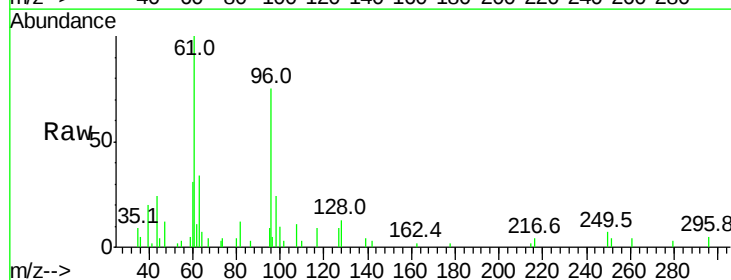
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

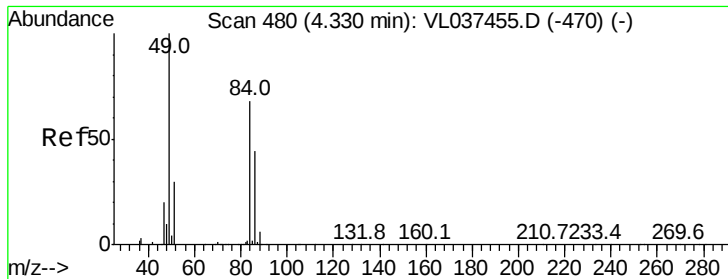
Tgt Ion: 39 Resp: 4106
 Ion Ratio Lower Upper
 39 100
 54 185.9 63.7 95.5#



#18
 1,1-Dichloroethene
 Concen: 0.040 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.00 min
 Lab File: VL037459.D
 Acq: 16 Aug 2021 13:00

Tgt Ion: 96 Resp: 3233
 Ion Ratio Lower Upper
 96 100
 61 47.7 151.1 226.7#
 98 14.3 51.8 77.8#





#20

Methylene Chloride

Concen: 0.112 ppbv

RT: 4.33 min Scan# 481

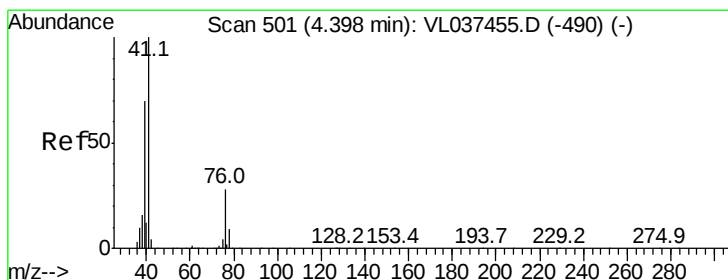
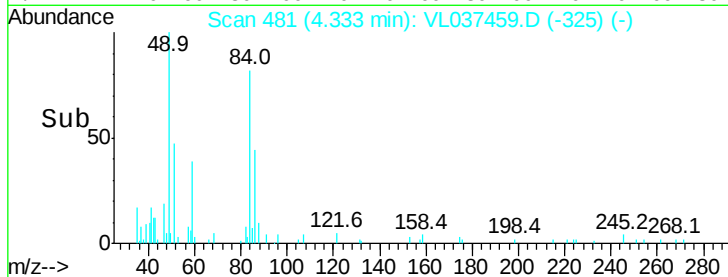
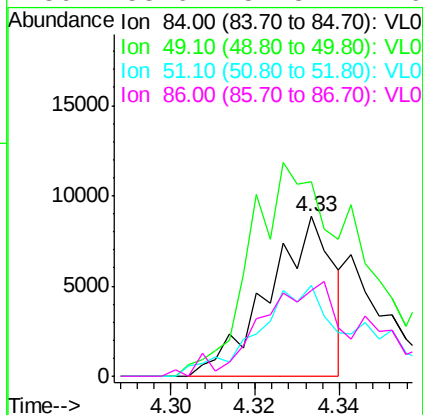
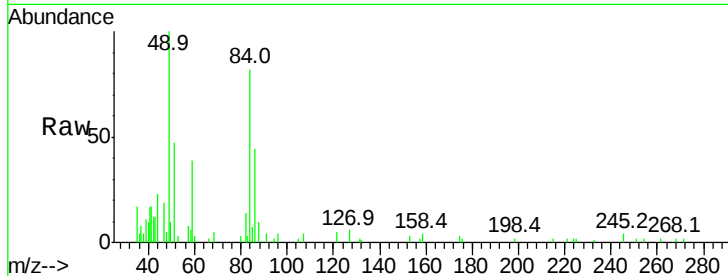
Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:	84	Resp:	9499
Ion	Ratio	Lower	Upper
84	100		
49	126.7	118.2	177.2
51	50.7	36.6	55.0
86	53.6	51.8	77.6



#21

Allyl Chloride

Concen: 0.062 ppbv

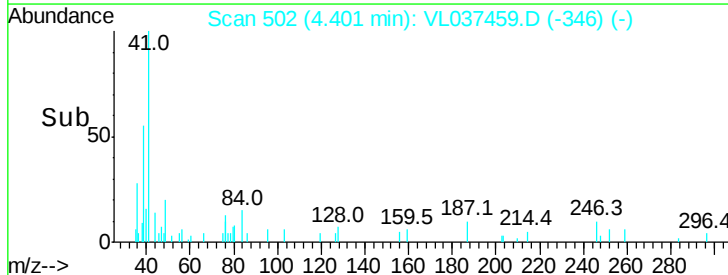
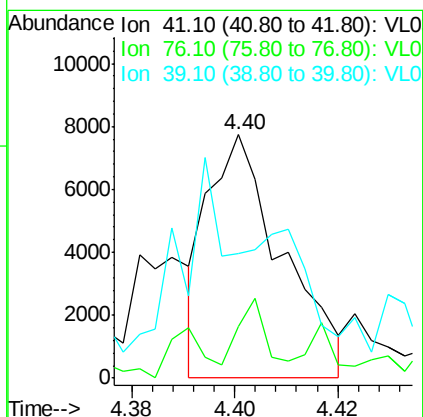
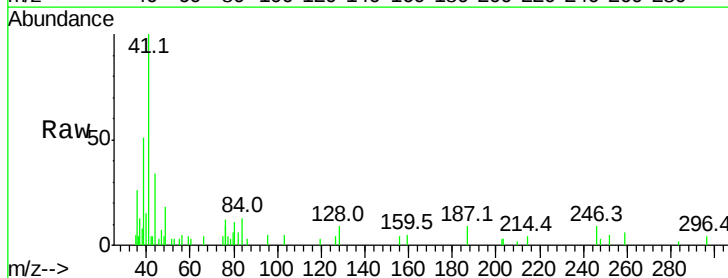
RT: 4.40 min Scan# 502

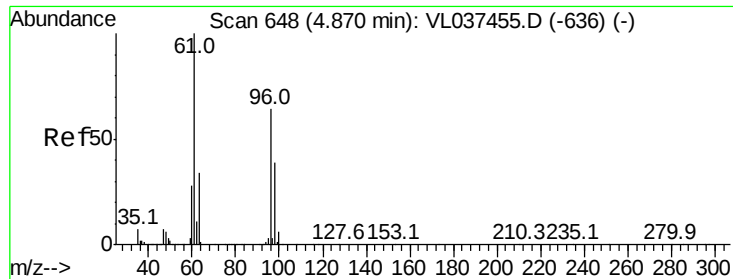
Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Tgt Ion:	41	Resp:	7814
Ion	Ratio	Lower	Upper
41	100		
76	42.2	21.8	32.6#
39	155.3	56.8	85.2#





#22

trans-1,2-Dichloroethene

Concen: 0.041 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

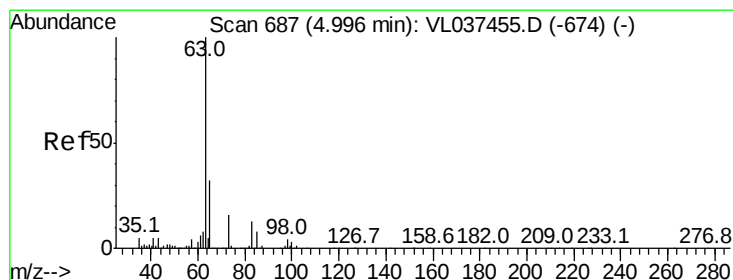
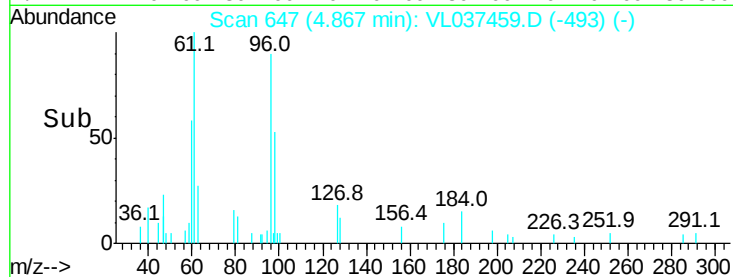
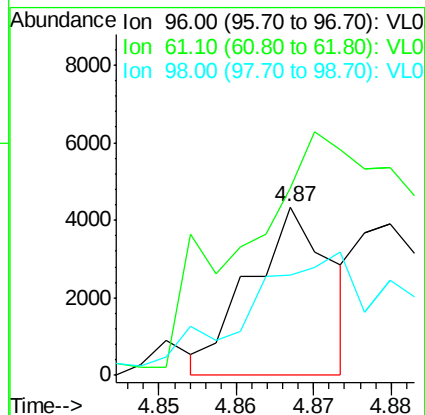
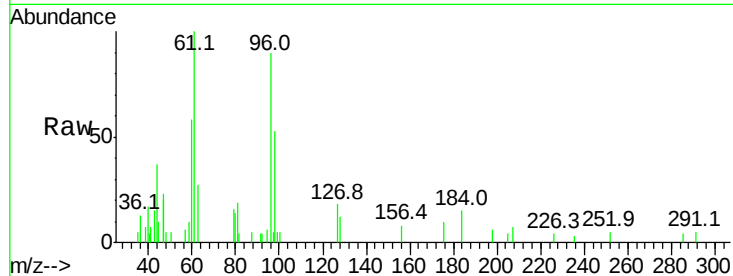
Tgt Ion: 96 Resp: 3145

Ion Ratio Lower Upper

96 100

61 30.8 125.5 188.3#

98 34.4 49.0 73.4#



#24

1,1-Dichloroethane

Concen: 0.032 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

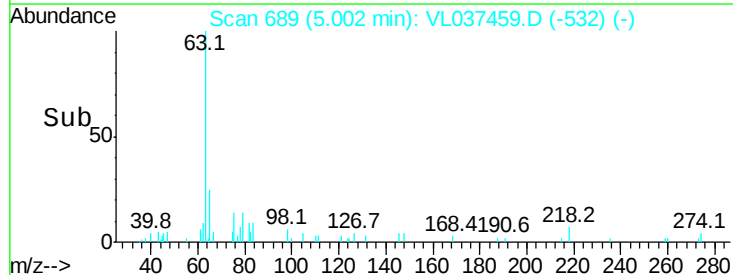
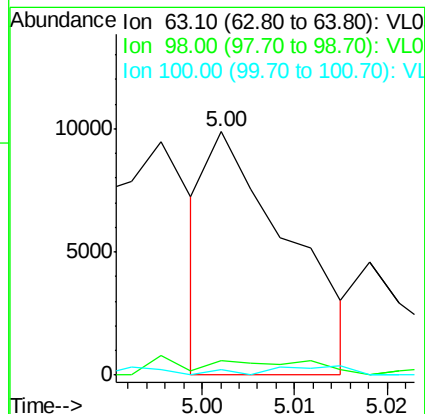
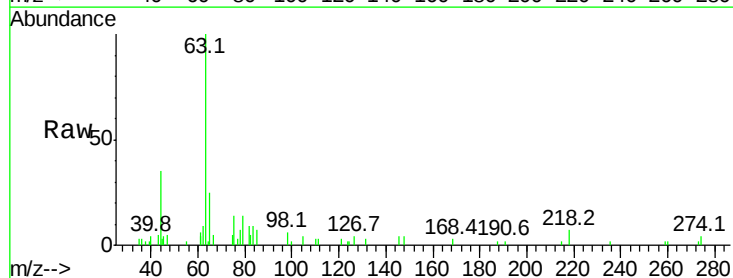
Tgt Ion: 63 Resp: 6037

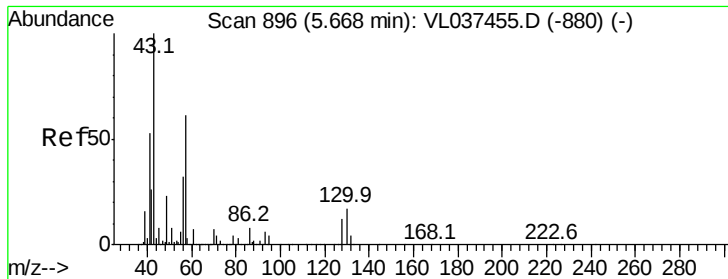
Ion Ratio Lower Upper

63 100

98 6.2 2.1 6.3

100 3.2 1.6 4.7





#26

Hexane

Concen: 0.038 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 7585

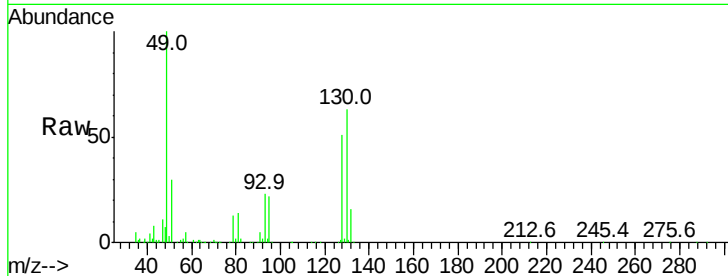
Ion Ratio Lower Upper

57 100

41 269.5 72.3 108.5#

43 543.7 172.3 258.5#

56 162.7 42.8 64.2#

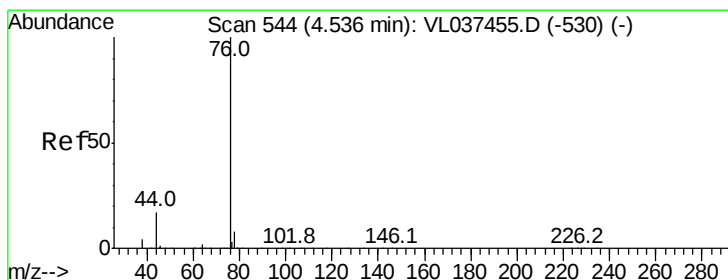
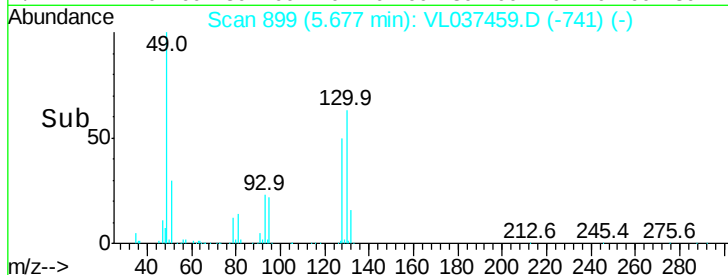
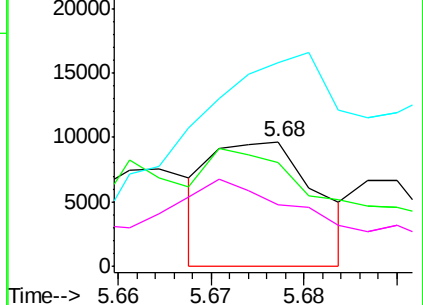


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

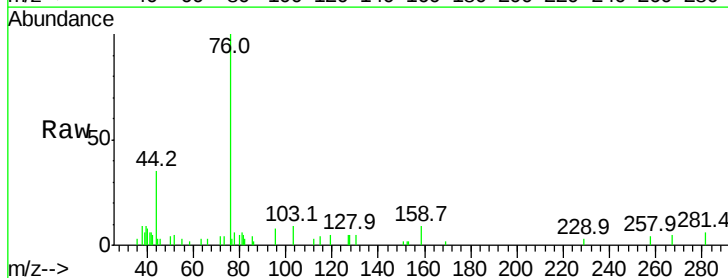
Tgt Ion: 76 Resp: 7783

Ion Ratio Lower Upper

76 100

44 41.7 13.9 20.9#

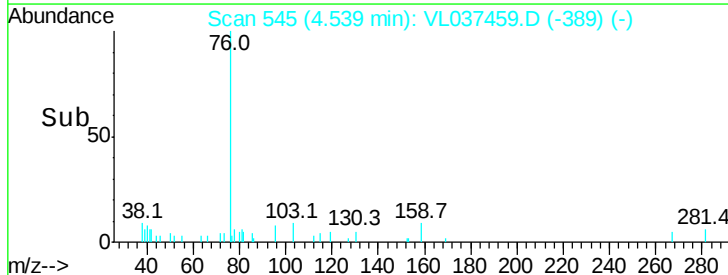
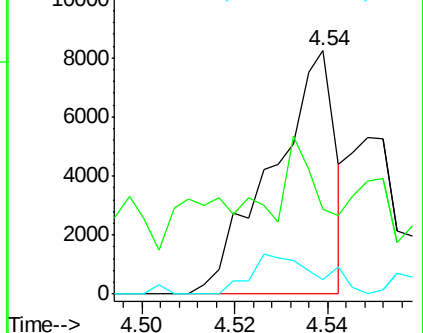
78 17.5 7.9 11.9#

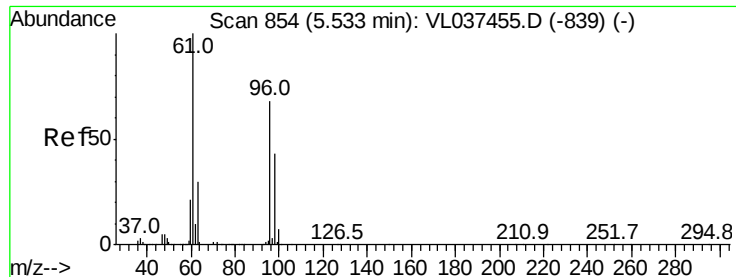


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.064 ppbv

RT: 5.54 min Scan# 855

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

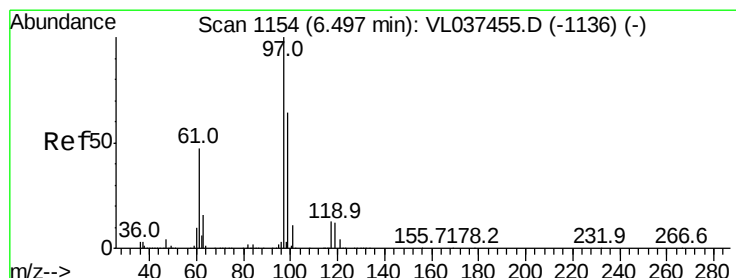
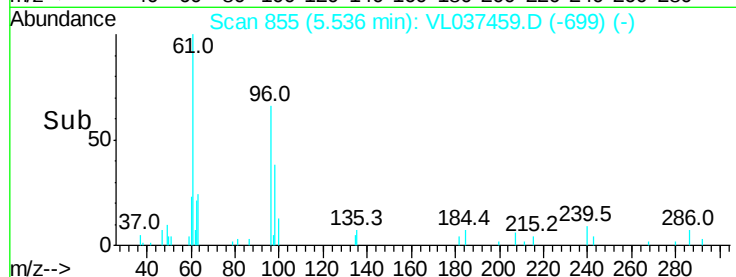
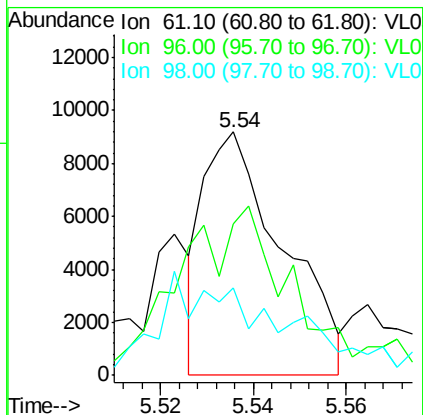
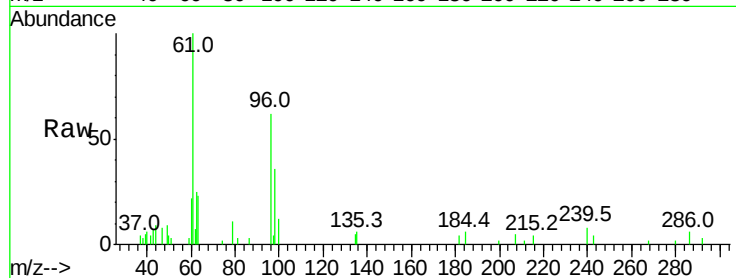
Tgt Ion: 61 Resp: 10921

Ion Ratio Lower Upper

61 100

96 47.0 54.8 82.2#

98 28.9 34.2 51.2#



#32

1,1,1-Trichloroethane

Concen: 0.088 ppbv

RT: 6.50 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

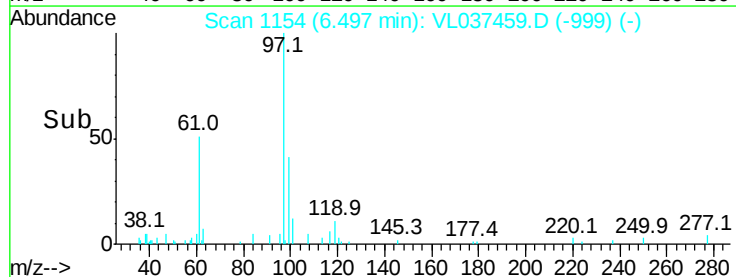
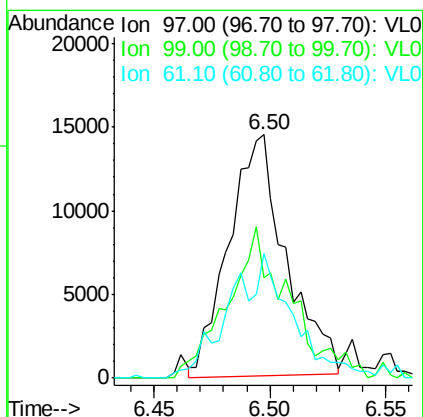
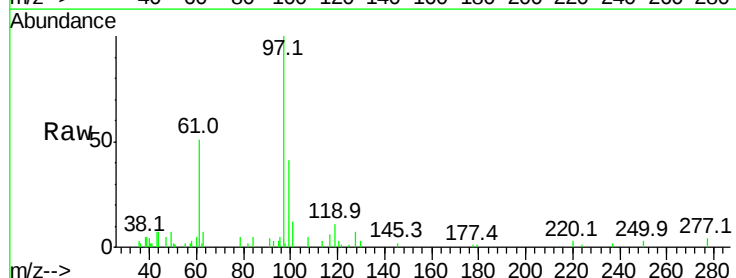
Tgt Ion: 97 Resp: 24799

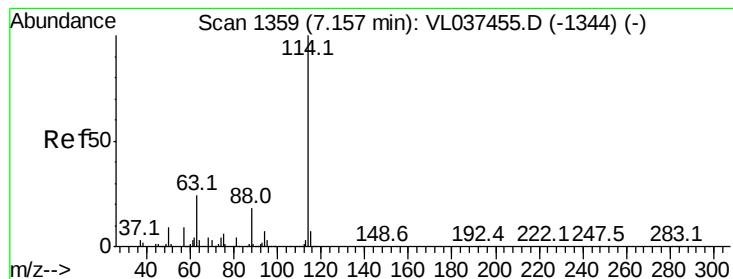
Ion Ratio Lower Upper

97 100

99 70.4 51.8 77.6

61 58.6 39.6 59.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

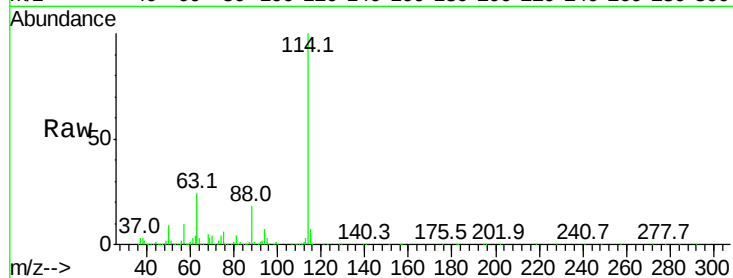
Tgt Ion:114 Resp: 4527685

Ion Ratio Lower Upper

114 100

63 23.6 19.3 28.9

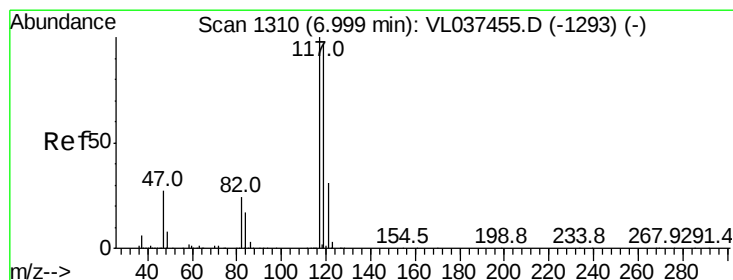
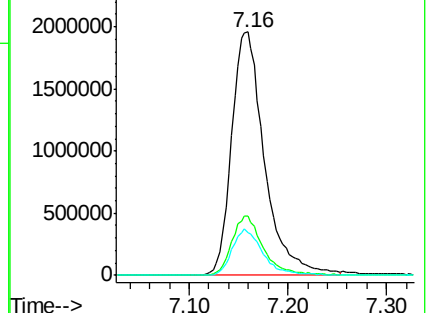
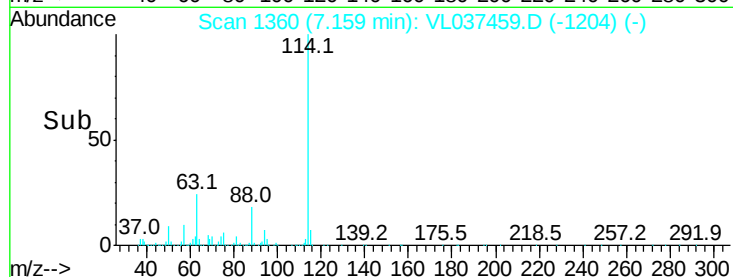
88 18.2 14.2 21.4



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



#35

Carbon Tetrachloride

Concen: 0.077 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

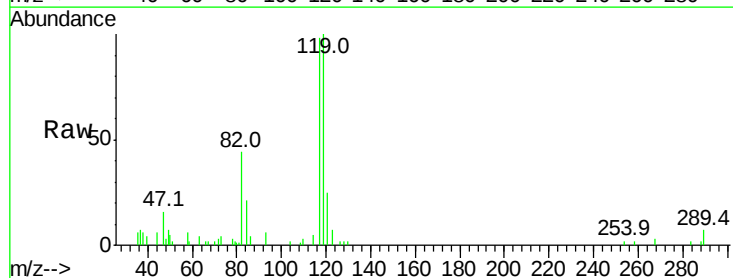
Tgt Ion:117 Resp: 21477

Ion Ratio Lower Upper

117 100

119 90.5 77.3 115.9

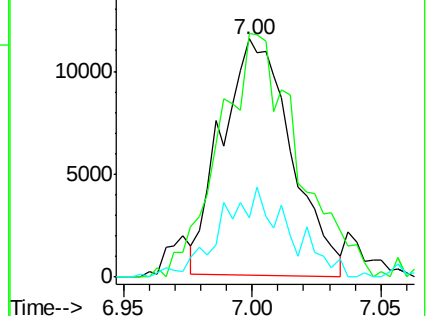
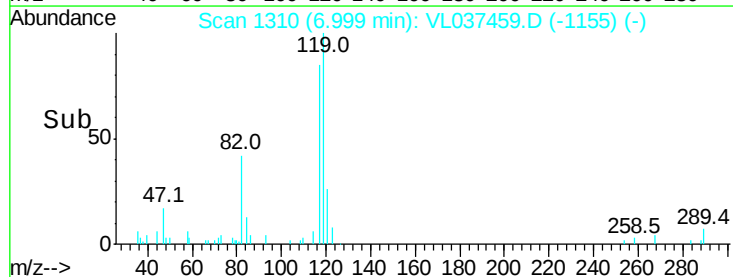
121 18.8 25.2 37.8#

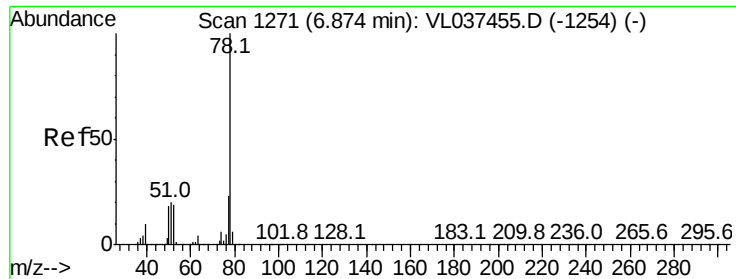


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.044 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

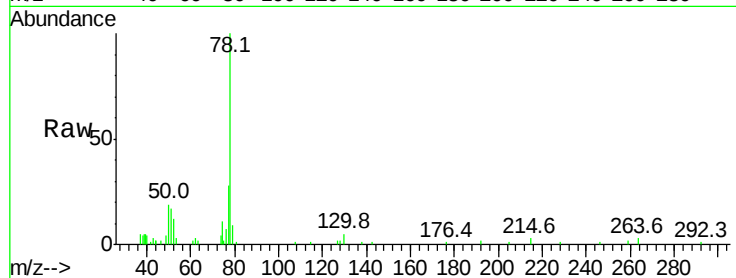
Tgt Ion: 78 Resp: 16696

Ion Ratio Lower Upper

78 100

77 22.4 18.2 27.4

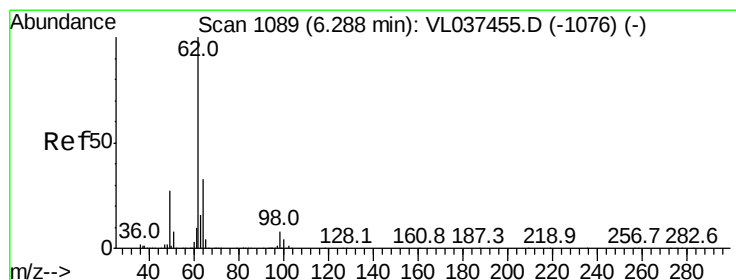
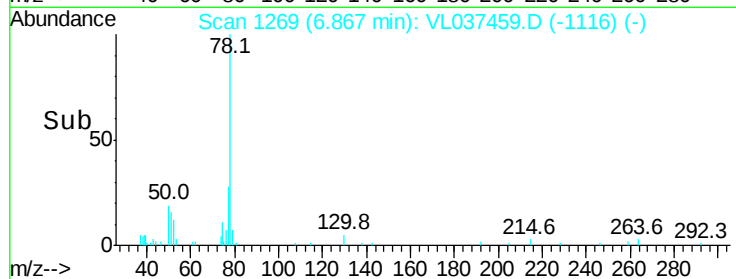
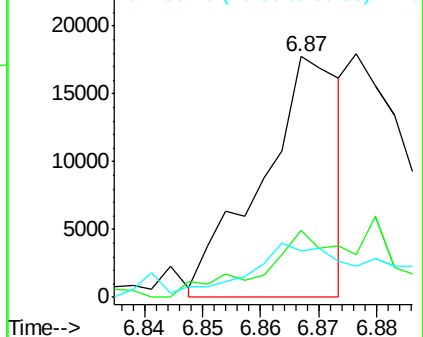
50 15.4 14.6 21.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.049 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VL037459.D

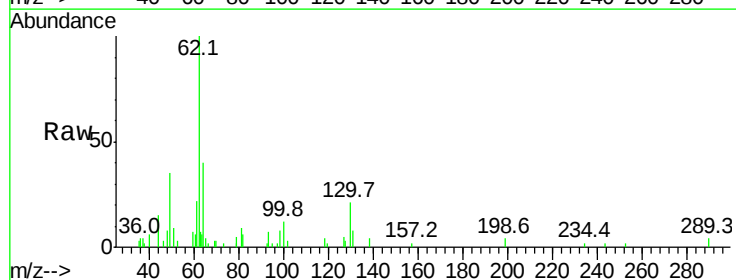
Acq: 16 Aug 2021 13:00

Tgt Ion: 62 Resp: 9640

Ion Ratio Lower Upper

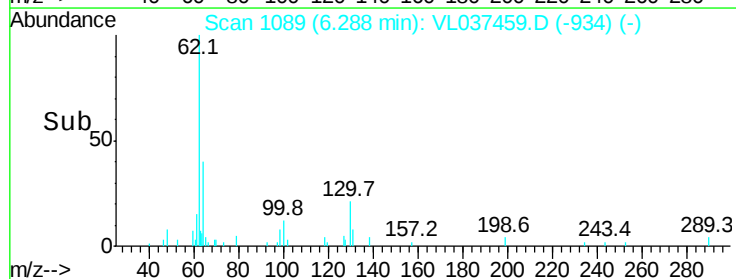
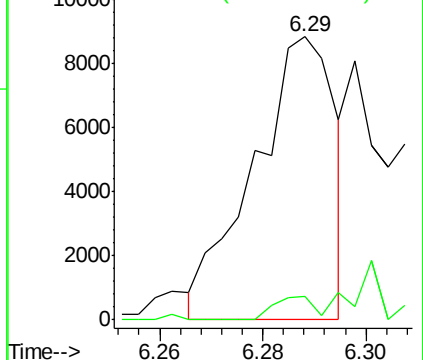
62 100

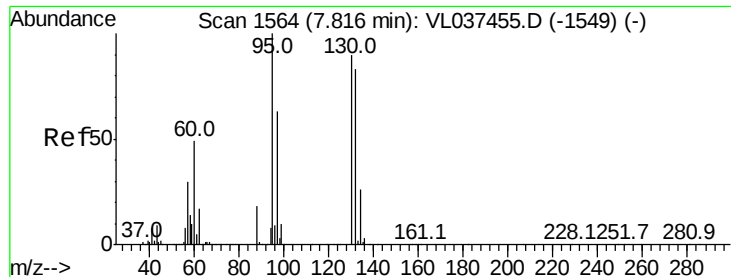
98 0.0 6.0 9.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.076 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 12847

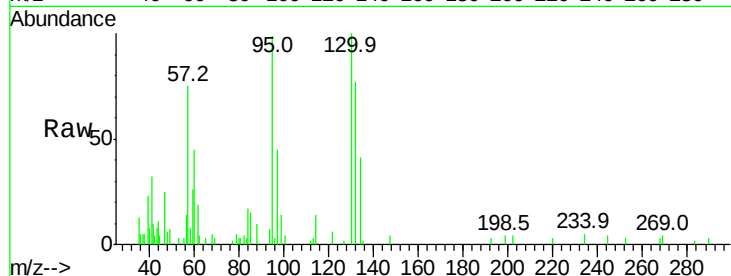
Ion Ratio Lower Upper

130 100

95 108.6 89.2 133.8

132 50.0 74.0 111.0#

97 20.6 56.6 84.8#

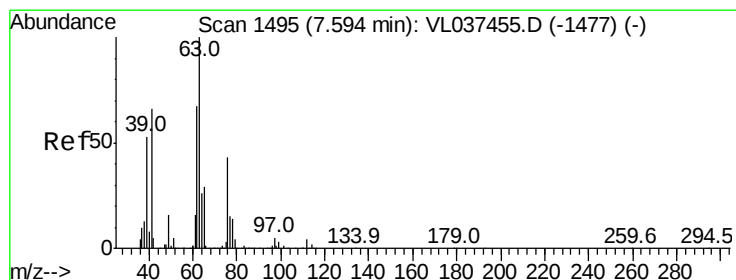
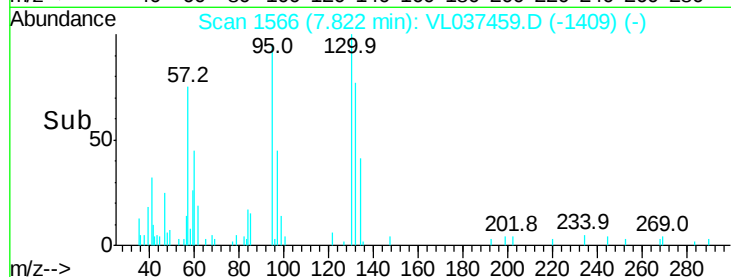
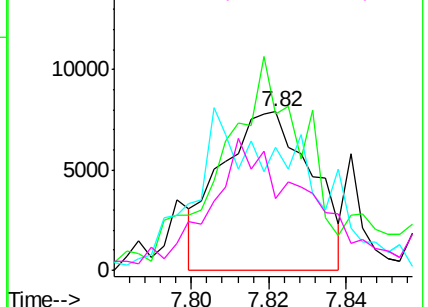


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.094 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

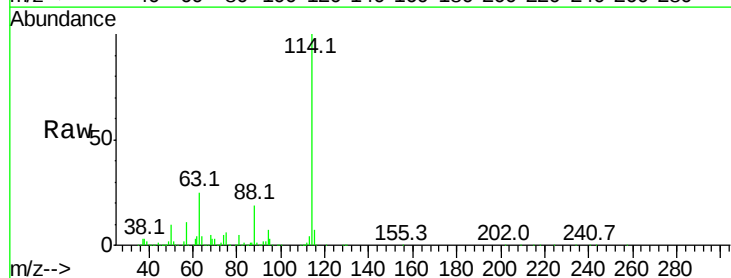
Tgt Ion: 63 Resp: 1031666

Ion Ratio Lower Upper

63 100

41 0.2 52.4 78.6#

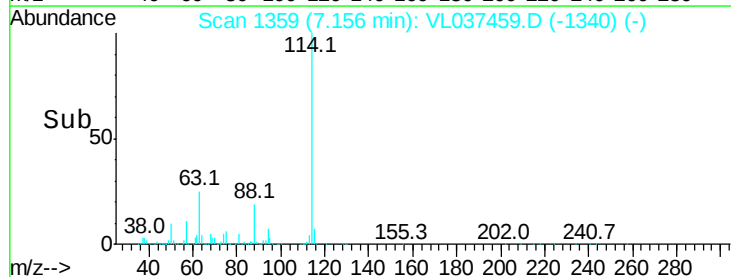
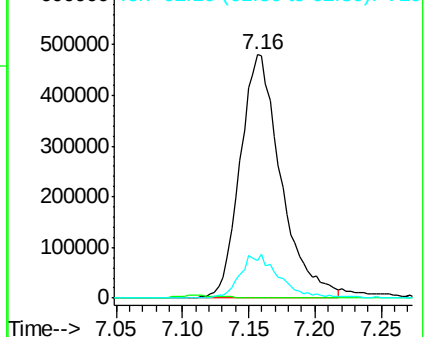
62 15.7 53.6 80.4#

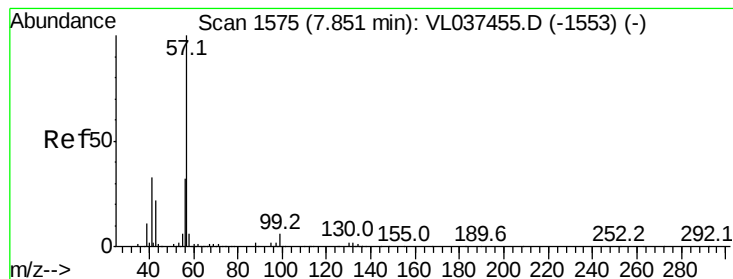


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

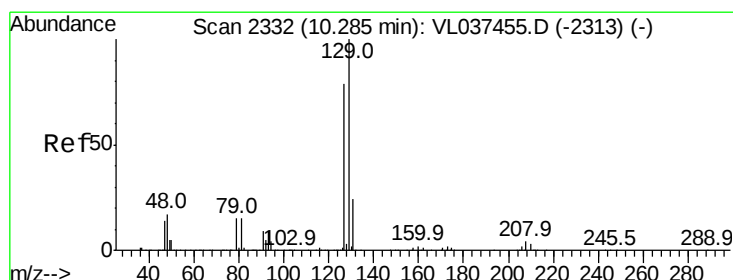
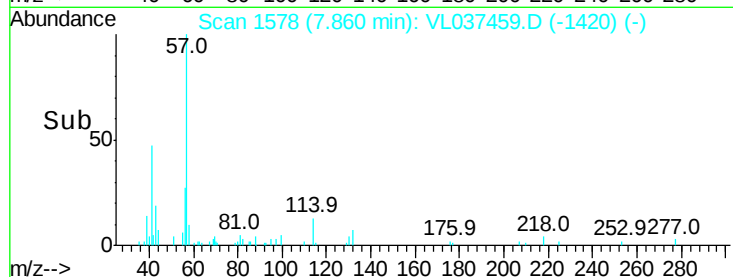
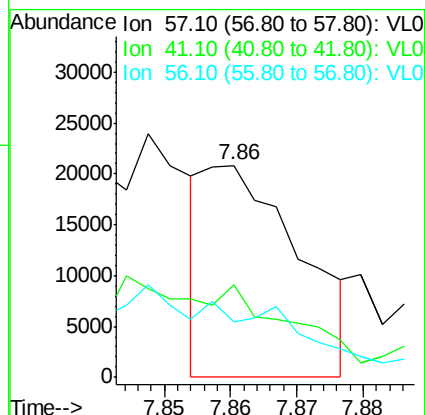
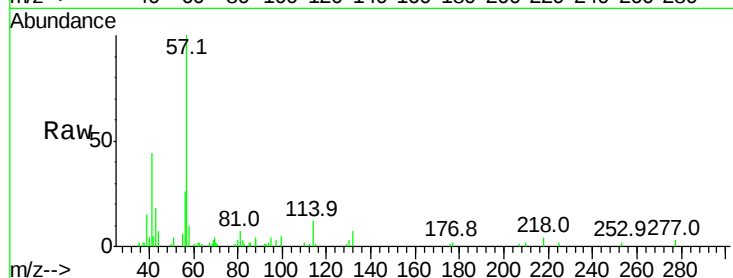
Tgt Ion: 57 Resp: 20788

Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.4#

56 0.0 25.4 38.2#



#48

Dibromochloromethane

Concen: 0.039 ppbv

RT: 10.28 min Scan# 2332

Delta R.T. -0.00 min

Lab File: VL037459.D

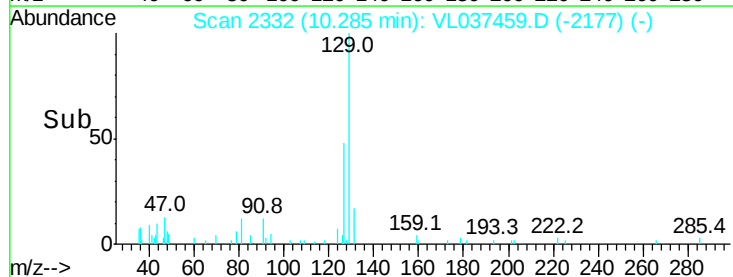
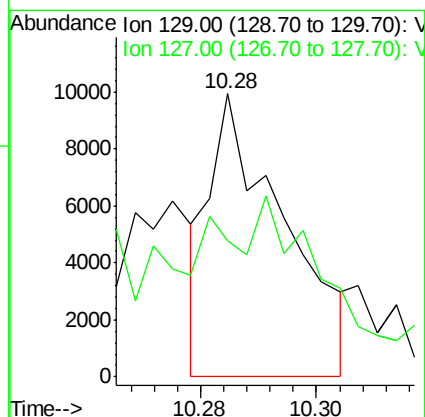
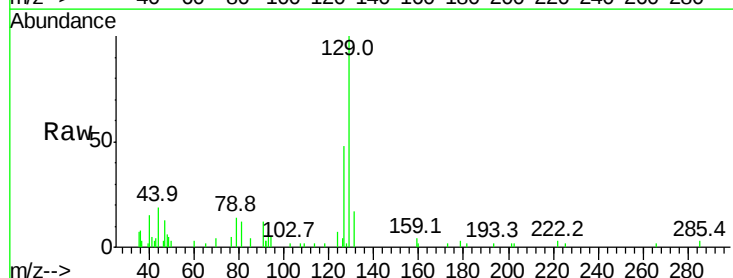
Acq: 16 Aug 2021 13:00

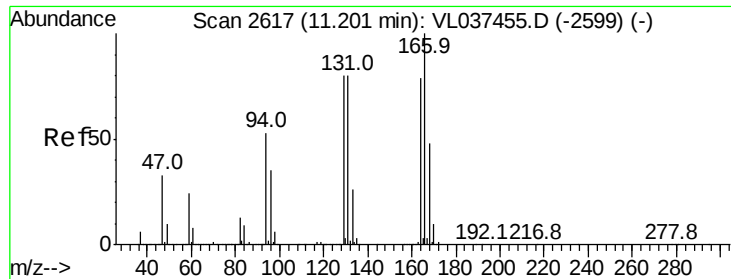
Tgt Ion: 129 Resp: 8876

Ion Ratio Lower Upper

129 100

127 160.9 40.0 120.0#





#52

Tetrachloroethene

Concen: 0.034 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 5501

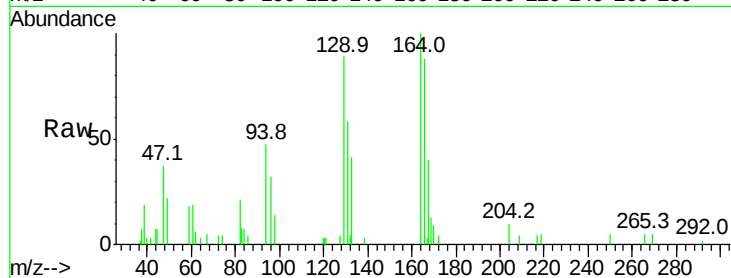
Ion Ratio Lower Upper

164 100

166 9.1 100.7 151.1#

129 37.9 80.9 121.3#

131 13.6 80.2 120.4#

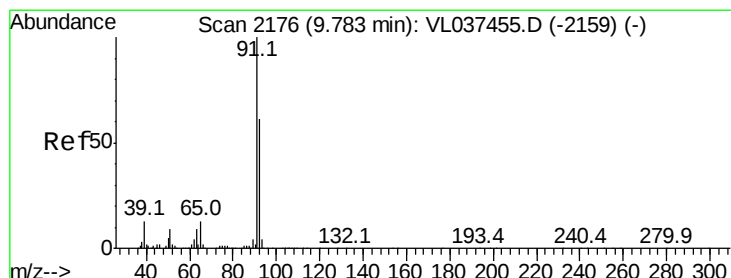
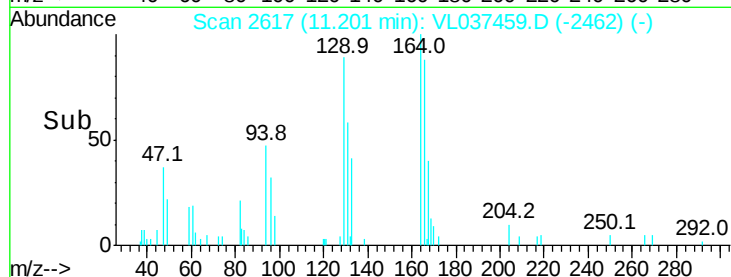
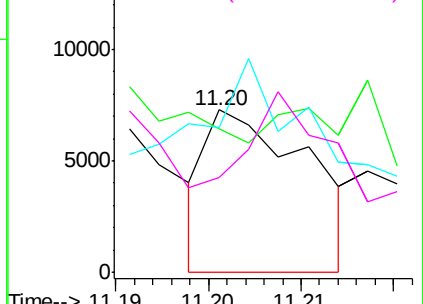


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.050 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037459.D

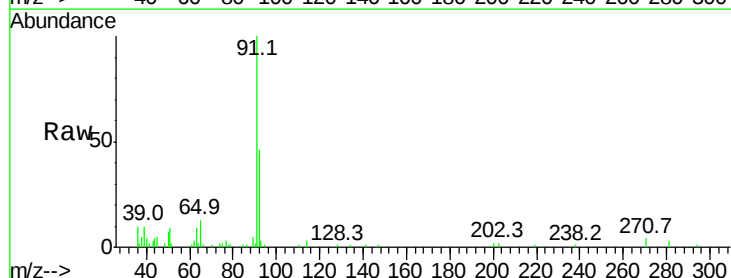
Acq: 16 Aug 2021 13:00

Tgt Ion: 91 Resp: 21866

Ion Ratio Lower Upper

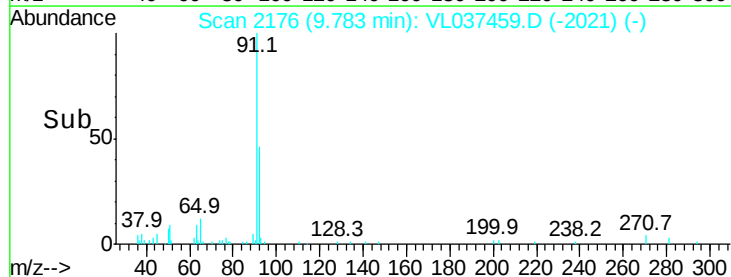
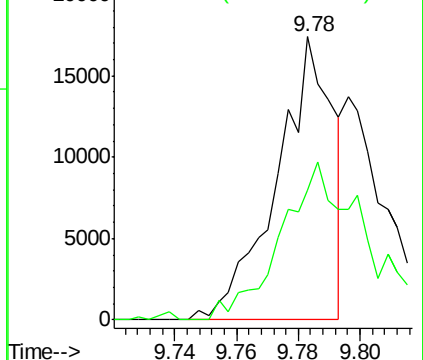
91 100

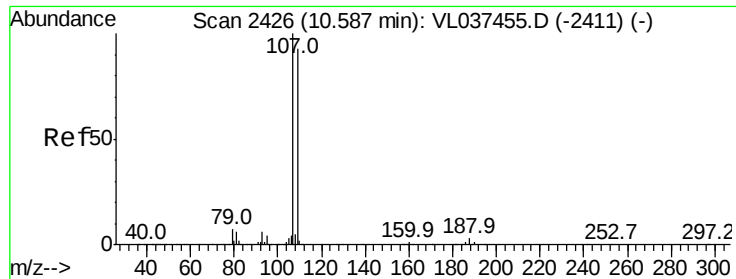
92 89.0 48.8 73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.031 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

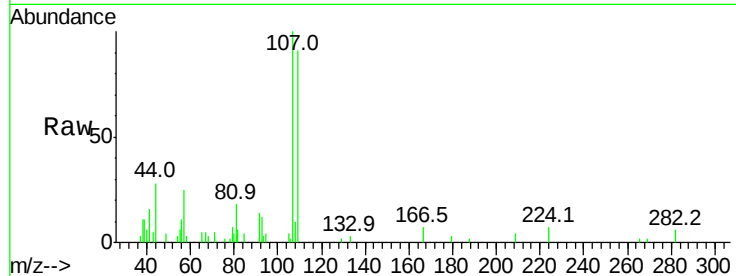
VSTDIC0.1

Tgt Ion:107 Resp: 6610

Ion Ratio Lower Upper

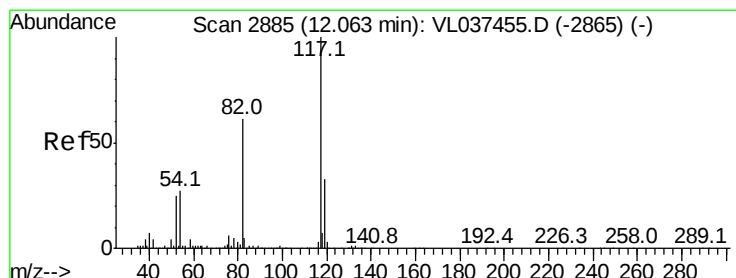
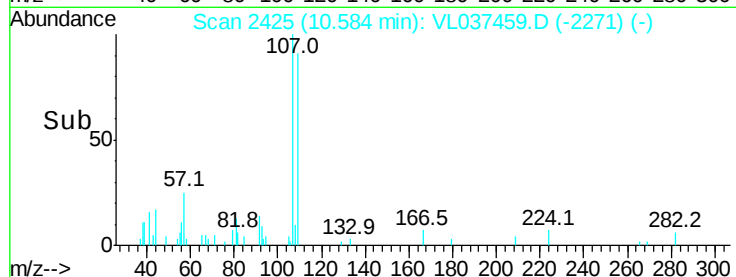
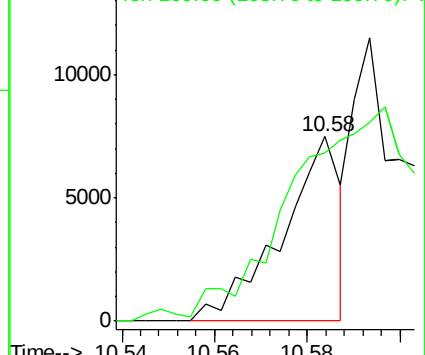
107 100

109 88.8 74.2 111.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

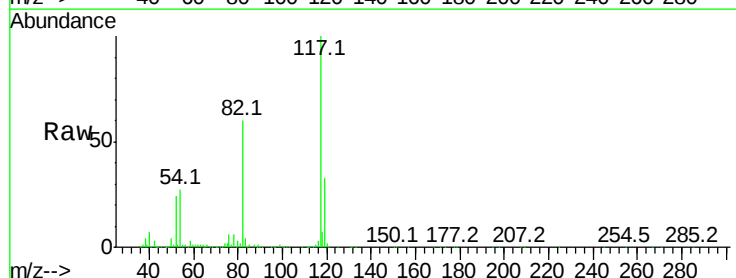
Tgt Ion:117 Resp: 3859440

Ion Ratio Lower Upper

117 100

82 64.8 52.9 79.3

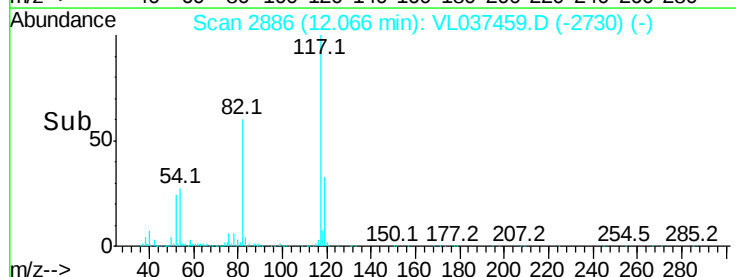
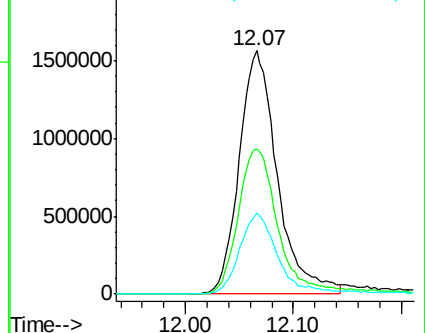
119 33.7 24.8 37.2

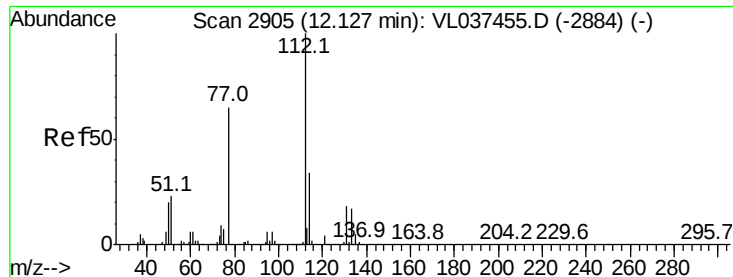


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#57

Chlorobenzene

Concen: 0.060 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

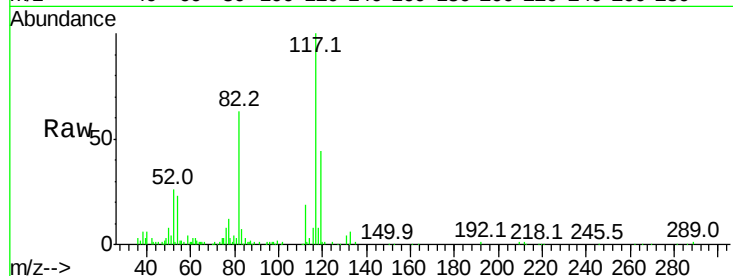
Tgt Ion: 112 Resp: 18810

Ion Ratio Lower Upper

112 100

77 50.3 51.6 77.4#

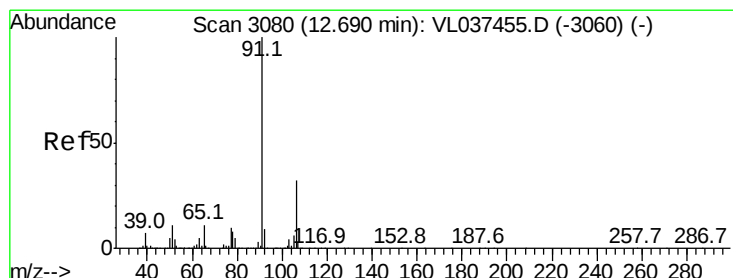
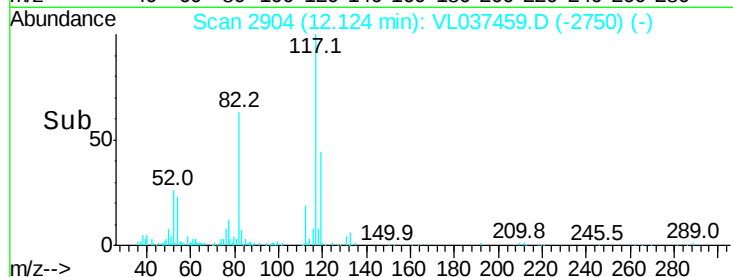
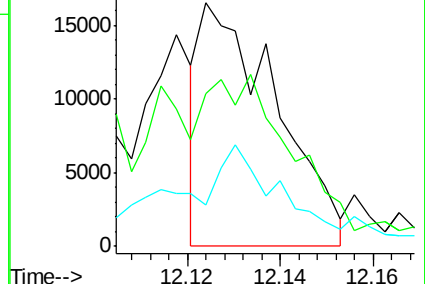
114 11.0 30.7 37.5#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.078 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.00 min

Lab File: VL037459.D

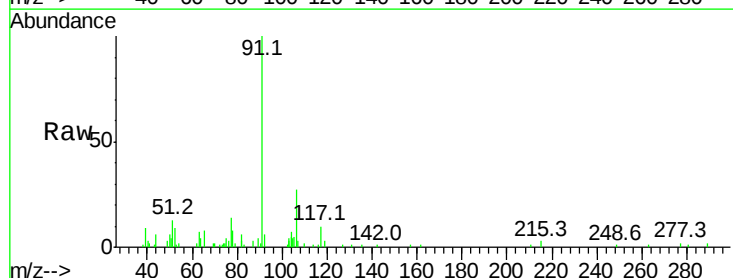
Acq: 16 Aug 2021 13:00

Tgt Ion: 91 Resp: 40743

Ion Ratio Lower Upper

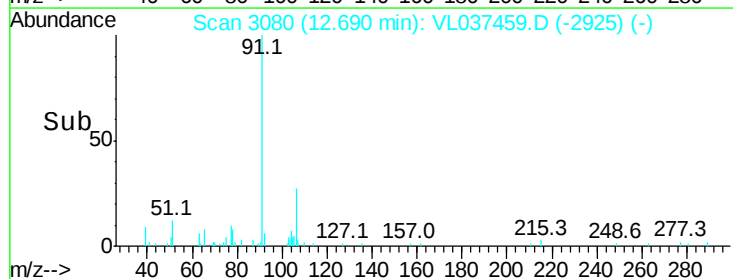
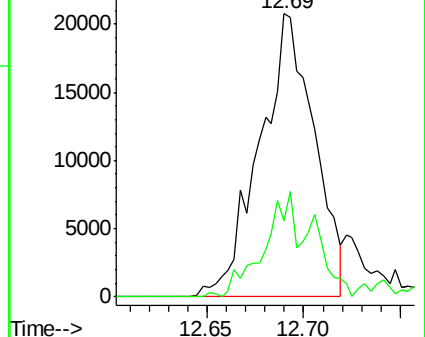
91 100

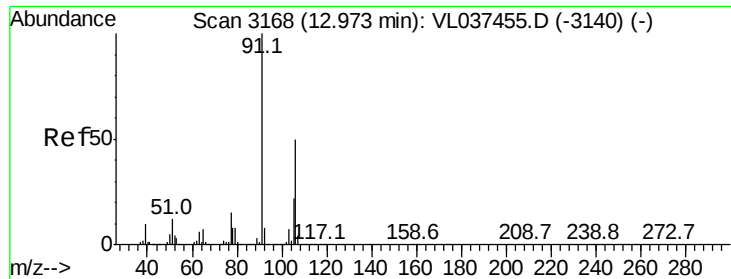
106 27.0 25.7 38.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

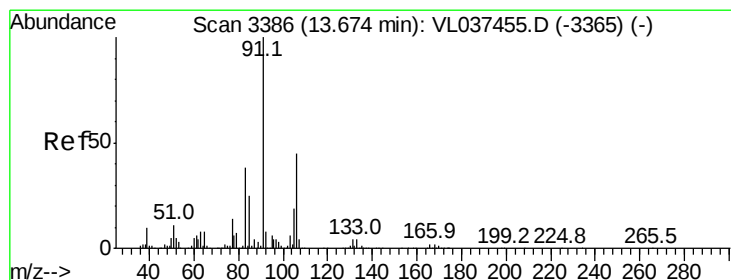
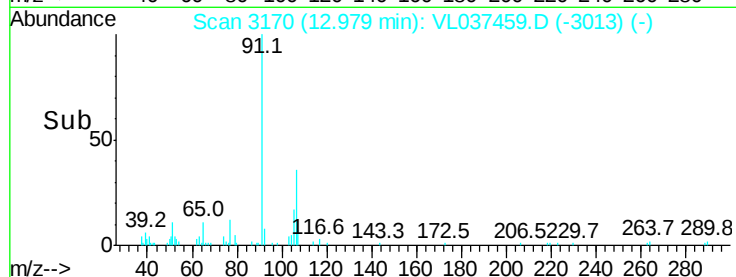
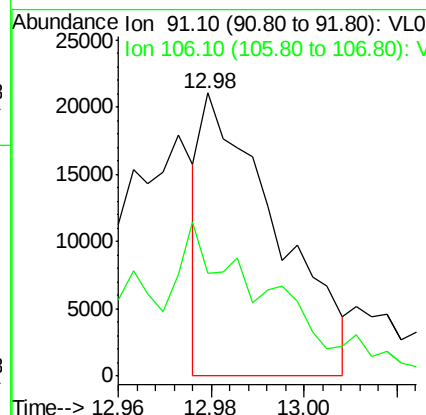
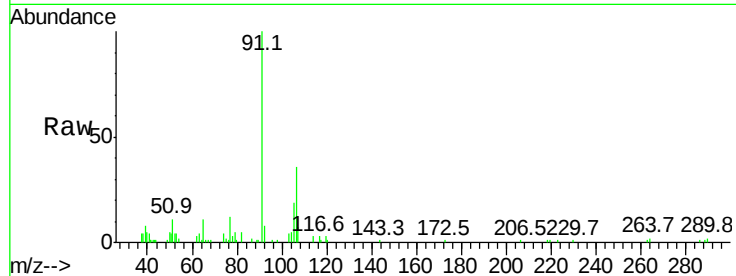




#59
m/p-Xylene
Concen: 0.051 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

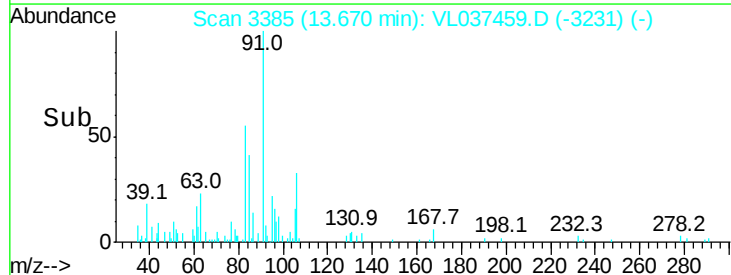
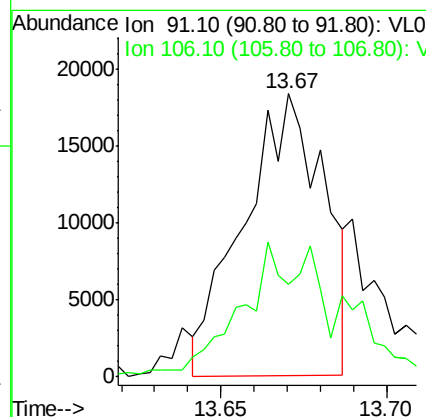
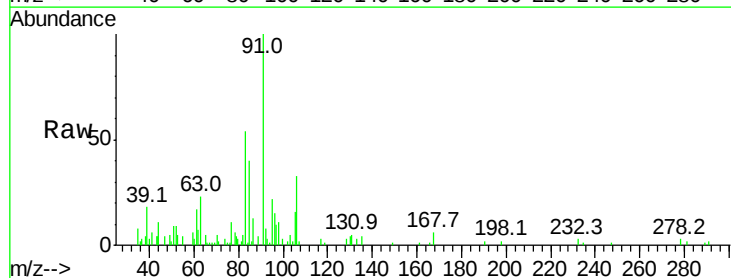
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

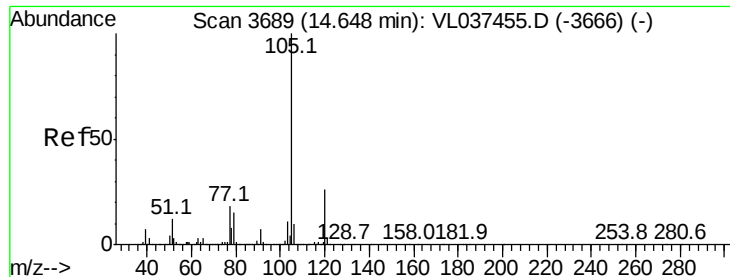
Tgt Ion: 91 Resp: 23412
Ion Ratio Lower Upper
91 100
106 75.5 36.9 55.3#



#60
o-Xylene
Concen: 0.073 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

Tgt Ion: 91 Resp: 31139
Ion Ratio Lower Upper
91 100
106 61.4 23.7 71.1





#62

Isopropylbenzene

Concen: 0.061 ppbv

RT: 14.65 min Scan# 3689

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

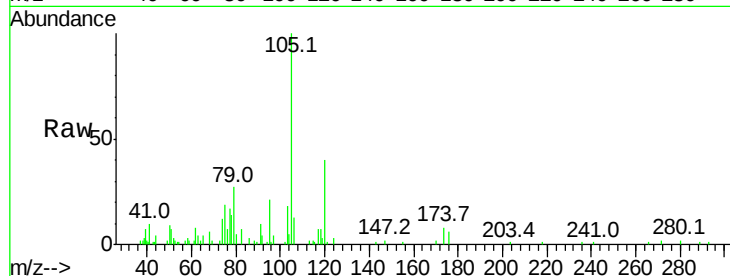
VSTDIC0.1

Tgt Ion:105 Resp: 37138

Ion Ratio Lower Upper

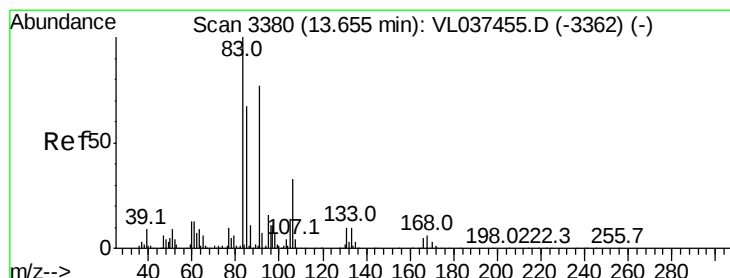
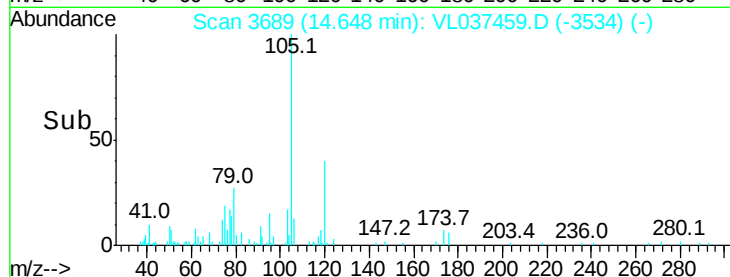
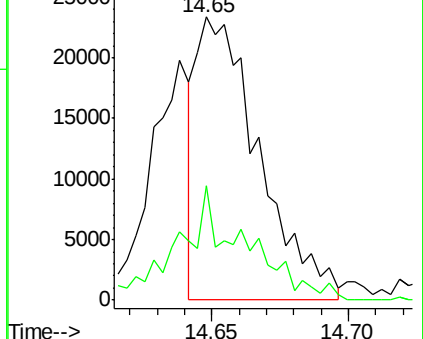
105 100

120 45.1 21.5 32.3#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

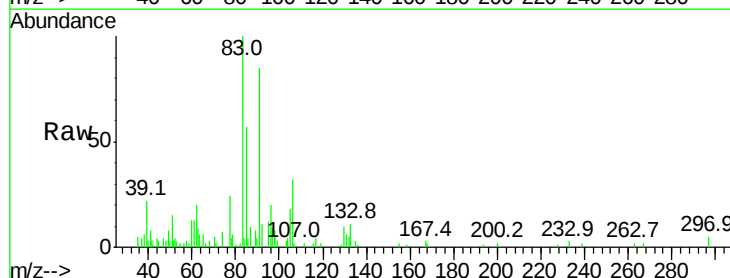
Tgt Ion: 83 Resp: 11925

Ion Ratio Lower Upper

83 100

131 17.6 5.0 15.0#

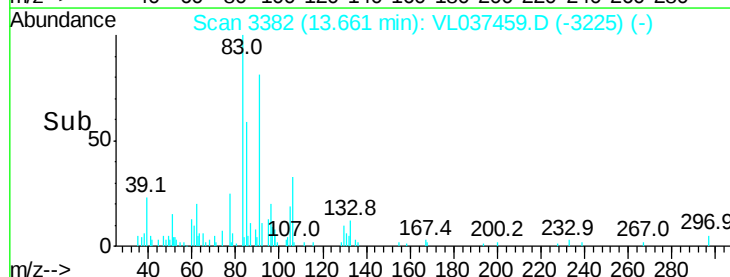
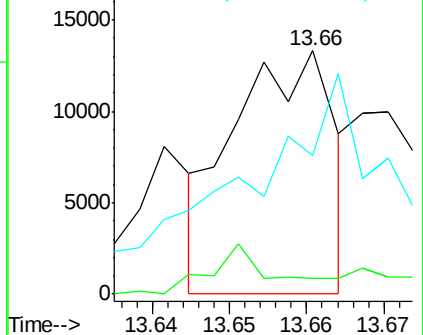
85 186.7 33.8 101.3#

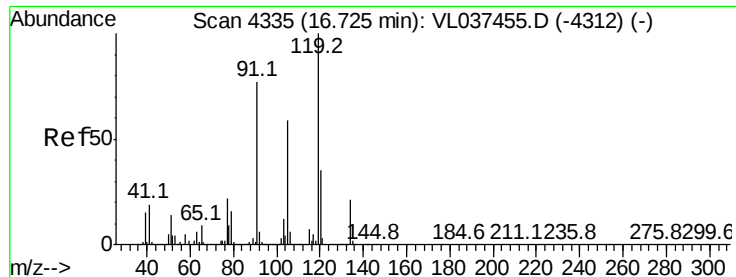


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#65

tert-Butylbenzene

Concen: 0.048 ppbv

RT: 16.73 min Scan# 4336

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

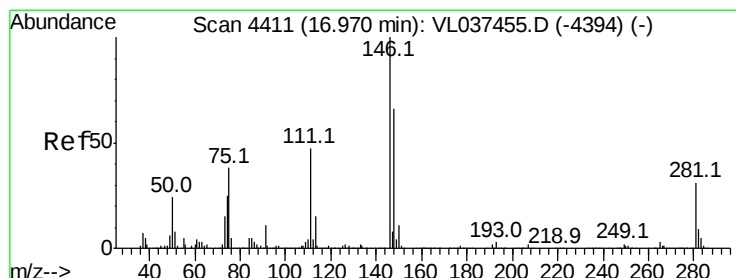
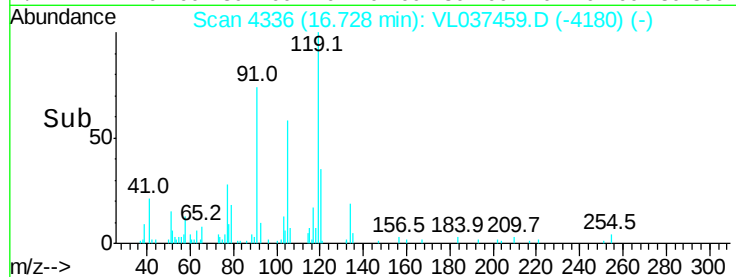
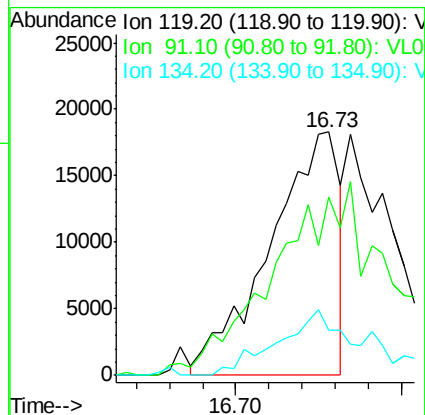
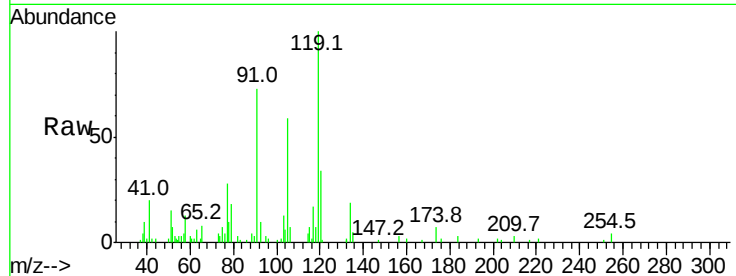
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	119	Resp:	26626
Ion Ratio	Lower	Upper	
119	100		
91	0.0	62.9	94.3#
134	35.6	16.4	24.6#



#66

Benzyl Chloride

Concen: 0.031 ppbv

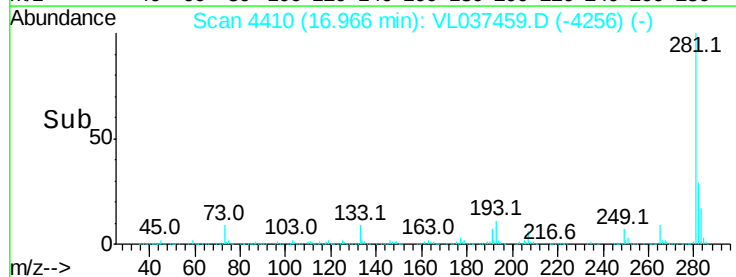
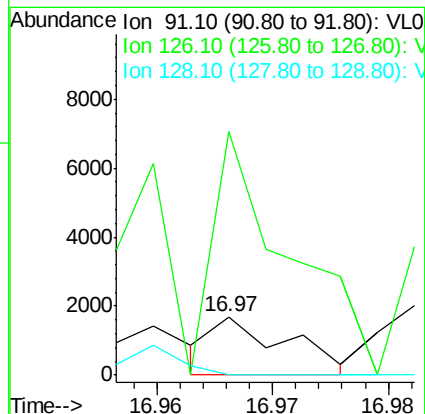
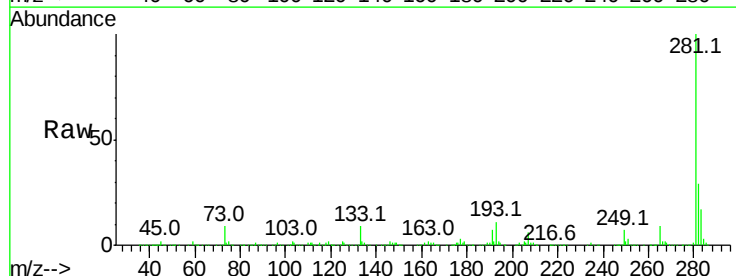
RT: 16.97 min Scan# 4410

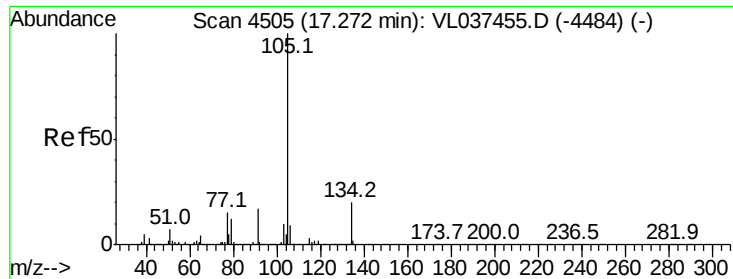
Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Tgt Ion:	91	Resp:	770
Ion Ratio	Lower	Upper	
91	100		
126	1719.4	15.9	23.9#
128	0.0	5.4	8.0#





#67

sec-Butylbenzene

Concen: 0.074 ppbv

RT: 17.27 min Scan# 4506

Delta R.T. 0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

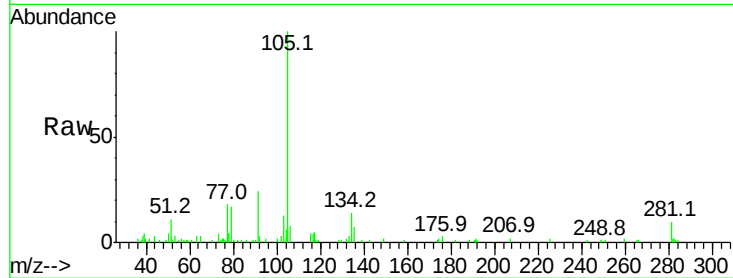
VSTDIC0.1

Tgt Ion: 105 Resp: 55135

Ion Ratio Lower Upper

105 100

134 22.7 15.2 22.8

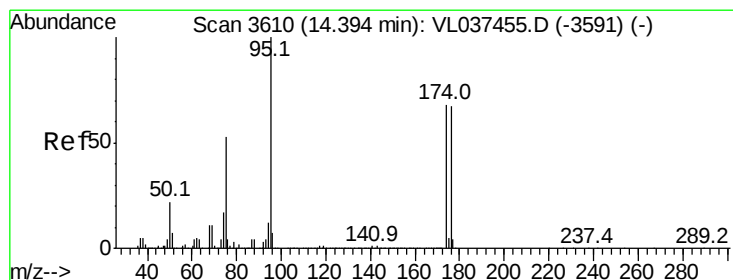
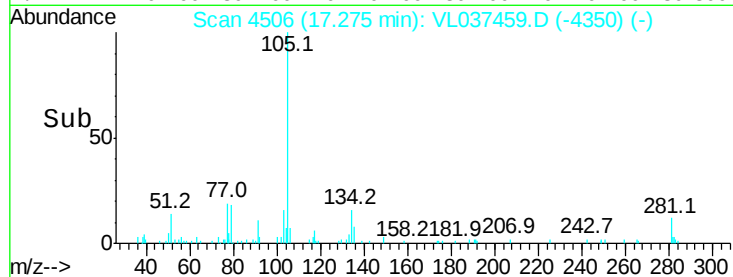


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.794 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

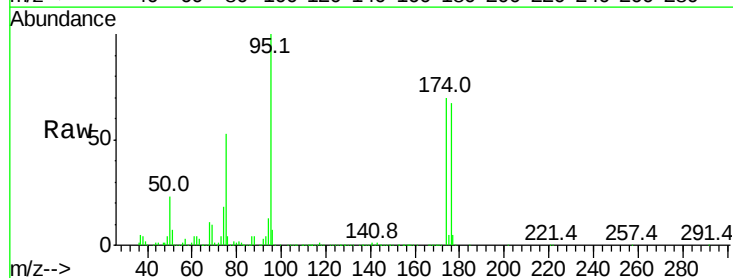
Tgt Ion: 95 Resp: 2711598

Ion Ratio Lower Upper

95 100

174 75.9 59.6 89.4

175 5.7 4.6 7.0



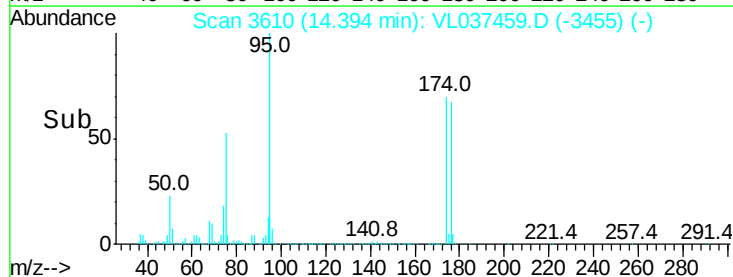
Abundance Ion 95.10 (94.80 to 95.80): VL0

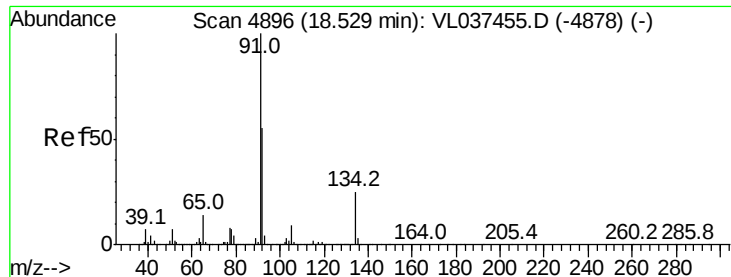
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.39

Time-->

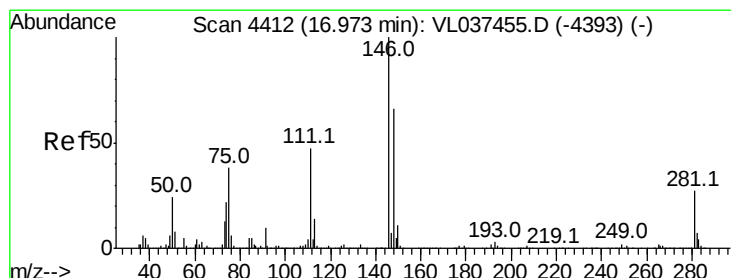
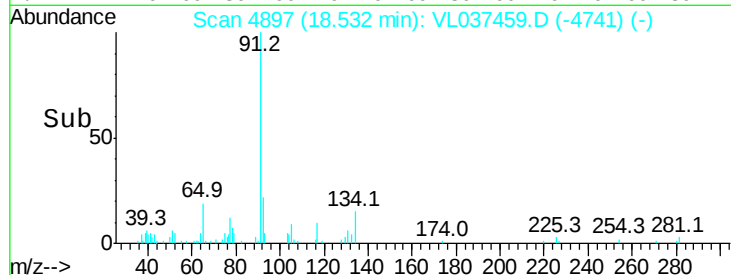
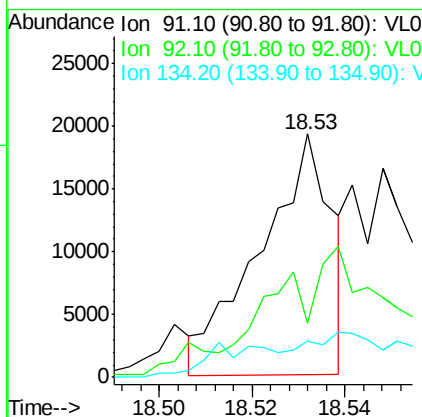
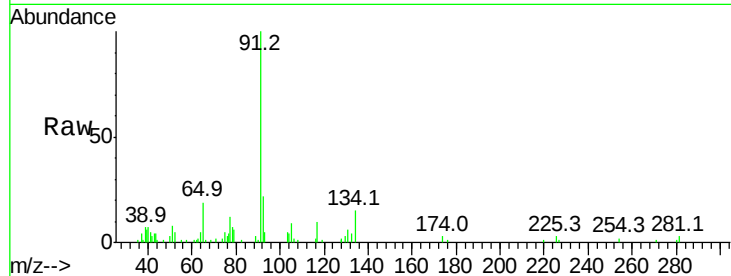




#70
n-Butylbenzene
Concen: 0.036 ppbv
RT: 18.53 min Scan# 4897
Delta R.T. 0.00 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

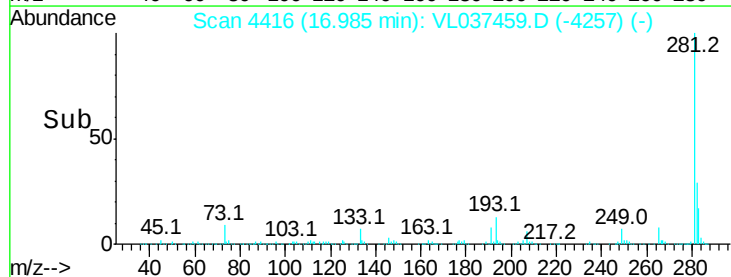
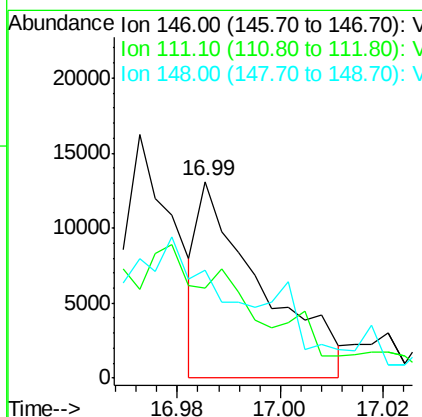
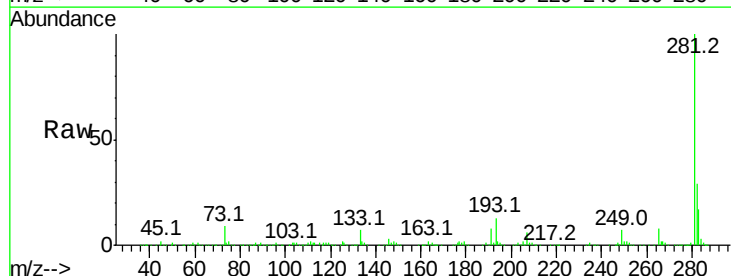
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

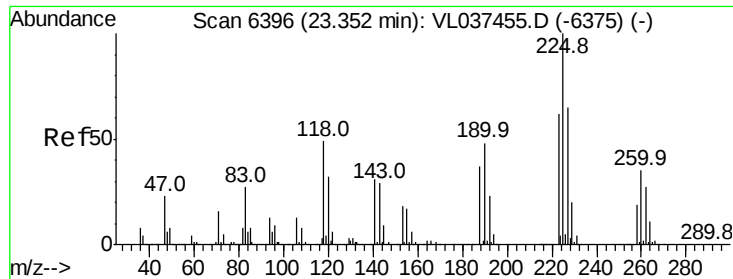
Tgt Ion: 91 Resp: 20665
Ion Ratio Lower Upper
91 100
92 0.0 44.0 66.0#
134 0.0 19.5 29.3#



#75
1,3-Dichlorobenzene
Concen: 0.038 ppbv
RT: 16.99 min Scan# 4416
Delta R.T. 0.01 min
Lab File: VL037459.D
Acq: 16 Aug 2021 13:00

Tgt Ion: 146 Resp: 11136
Ion Ratio Lower Upper
146 100
111 0.0 23.4 70.0#
148 231.8 33.1 99.5#





#78

Hexachloro-1,3-Butadiene

Concen: 0.050 ppbv

RT: 23.36 min Scan# 6398

Delta R.T. 0.01 min

Lab File: VL037459.D

Acq: 16 Aug 2021 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:225 Resp: 11377

Ion Ratio Lower Upper

225 100

223 181.4 51.4 77.0#

227 178.1 52.9 79.3#

