

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041621.D
 Acq On : 25 Sep 2024 13:14
 Operator : SY/MD
 Sample : VL0925ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 26 01:18:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.169	49	1061810	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2911559	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2533696	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1851431	9.926	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.645	51	7862	0.061	ppbv	99
4) Chloromethane	2.784	50	4717	0.067	ppbv	91
5) Vinyl Chloride	2.893	62	3207	0.052	ppbv #	87
6) Bromomethane	3.092	94	1043	0.034	ppbv	91
9) Propene	2.665	41	8839	0.163	ppbv	100
11) Trichlorofluoromethane	3.536	101	7167	0.044	ppbv	95
13) Ethanol	3.227	45	231	0.057	ppbv	67
18) 1,1-Dichloroethene	3.851	96	1900	0.038	ppbv	83
20) Methylene Chloride	3.906	84	5223	0.104	ppbv #	84
21) Allyl Chloride	3.973	41	3004	0.039	ppbv #	47
23) Vinyl Acetate	4.613	43	2514	0.034	ppbv #	82
24) 1,1-Dichloroethane	4.546	63	5559	0.051	ppbv #	96
27) Carbon Disulfide	4.102	76	4029	0.038	ppbv #	60
29) Chloroform	5.256	83	4918	0.030	ppbv #	78
31) cis-1,2-Dichloroethene	5.057	61	2887	0.030	ppbv #	61
35) Carbon Tetrachloride	6.471	117	6352	0.044	ppbv #	62
36) Benzene	6.349	78	7244	0.036	ppbv #	89
39) 1,2-Dichloropropane	6.632	63	716379	8.709	ppbv #	24
57) Chlorobenzene	11.510	112	6246	0.034	ppbv #	57

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

Instrument :

MSVOA_L

ClientSampleId :

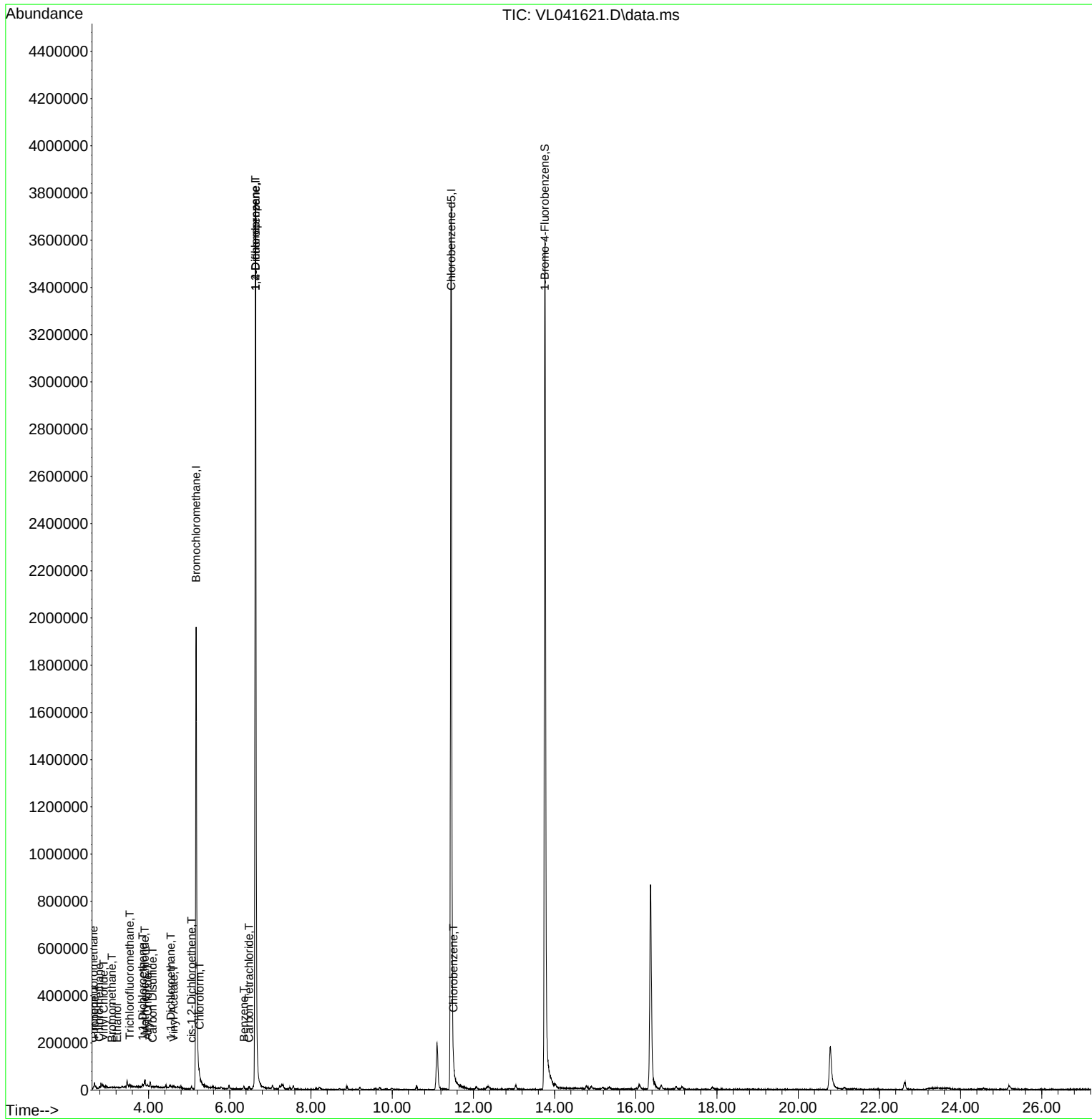
Quant Time: Sep 26 01:18:01 2024

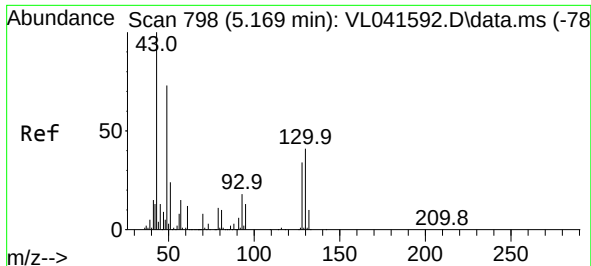
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Tue Sep 17 09:12:21 2024

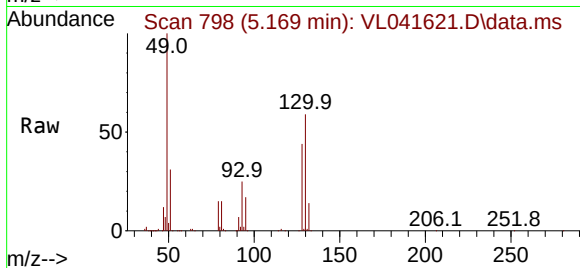
Response via : Initial Calibration



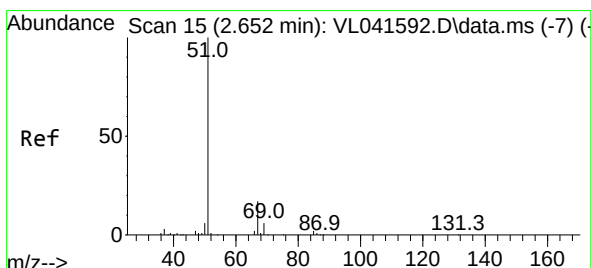
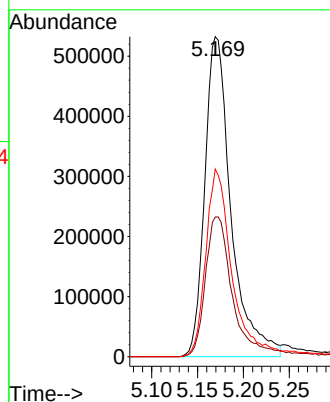
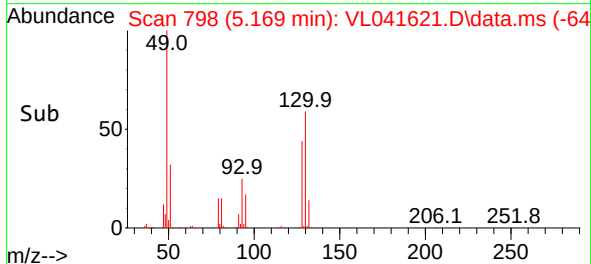


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 798
Delta R.T. 0.000 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

Instrument :
MSVOA_L
ClientSampleId :

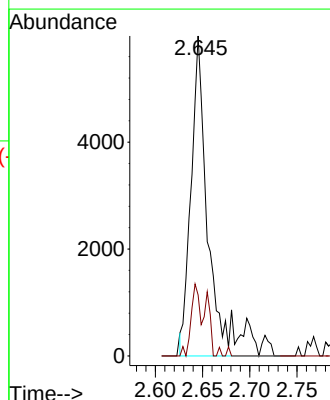
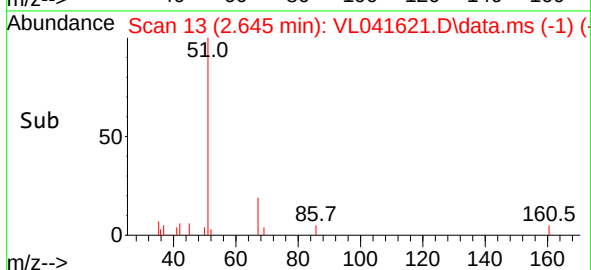
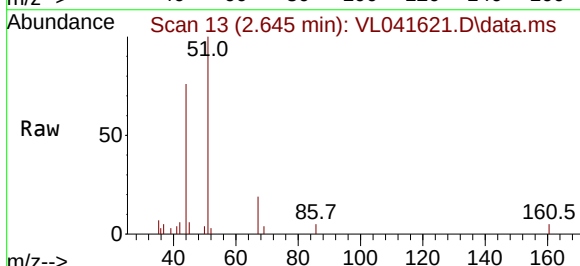


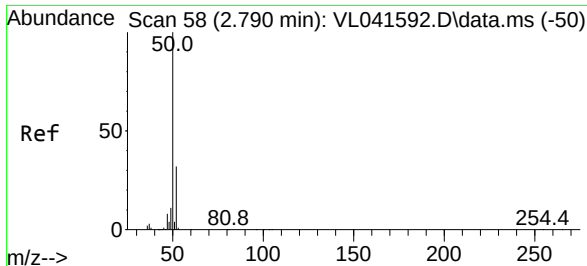
Tgt Ion: 49 Resp: 1061810
Ion Ratio Lower Upper
49 100
128 46.6 23.8 71.5
130 60.3 30.4 91.3



#3
Chlorodifluoromethane
Concen: 0.061 ppbv
RT: 2.645 min Scan# 13
Delta R.T. -0.006 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

Tgt Ion: 51 Resp: 7862
Ion Ratio Lower Upper
51 100
67 18.0 14.1 21.1

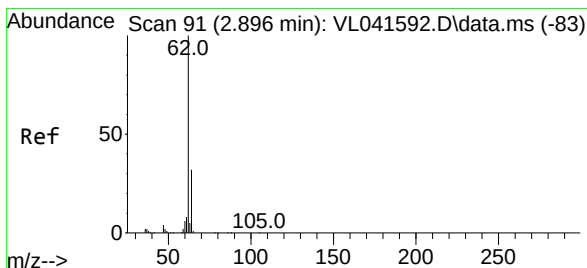
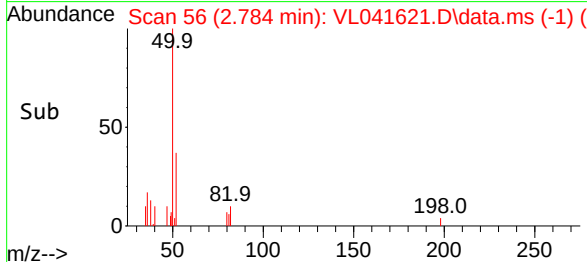
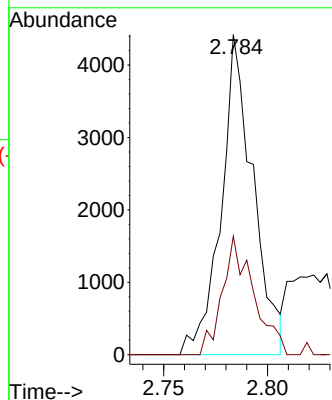
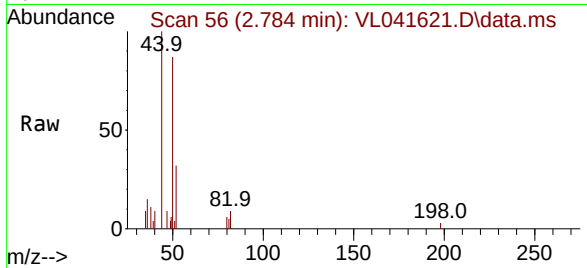




#4
Chloromethane
Concen: 0.067 ppbv
RT: 2.784 min Scan# 50
Delta R.T. -0.006 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

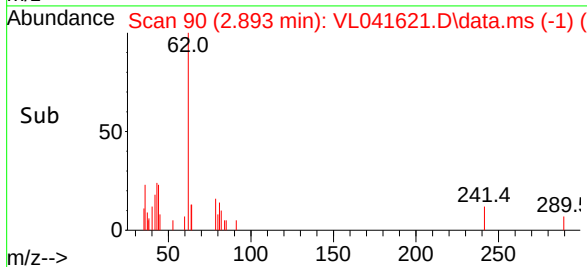
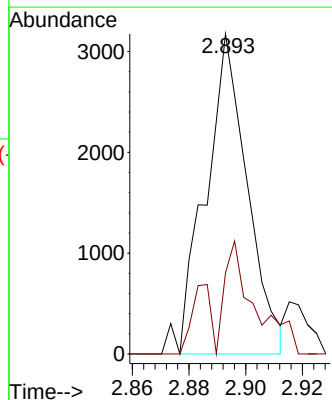
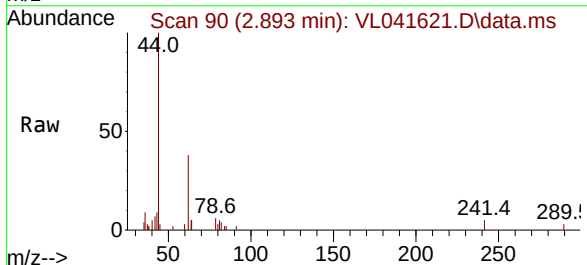
Instrument :
MSVOA_L
ClientSampleId :

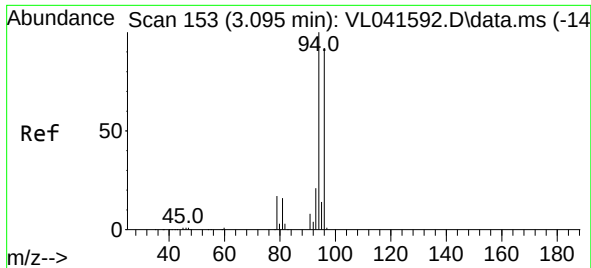
Tgt Ion: 50 Resp: 4717
Ion Ratio Lower Upper
50 100
52 37.0 25.4 38.2



#5
Vinyl Chloride
Concen: 0.052 ppbv
RT: 2.893 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

Tgt Ion: 62 Resp: 3207
Ion Ratio Lower Upper
62 100
64 25.3 26.0 39.0#

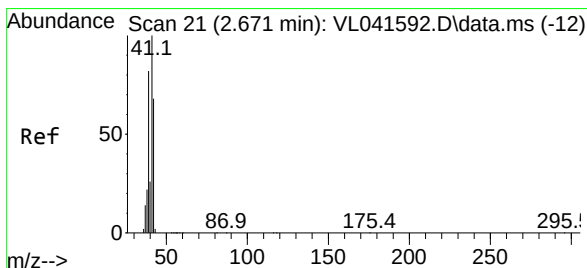
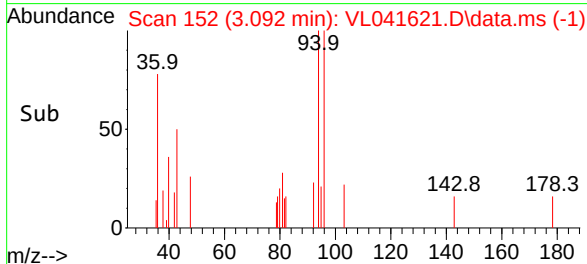
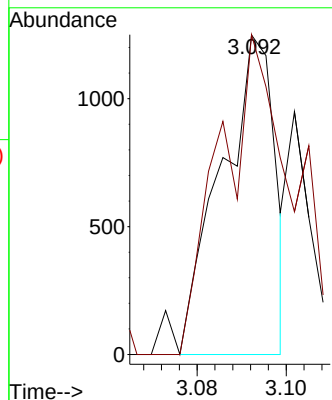
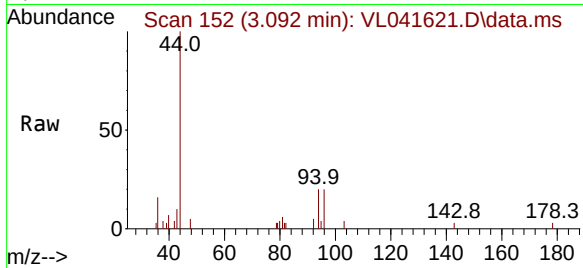




#6
Bromomethane
Concen: 0.034 ppbv
RT: 3.092 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

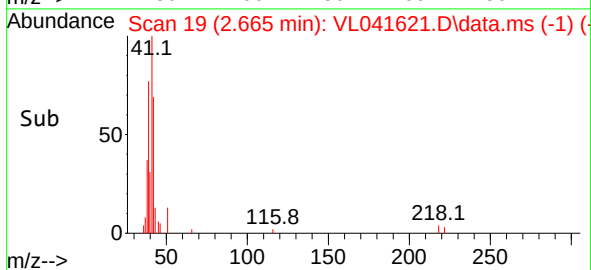
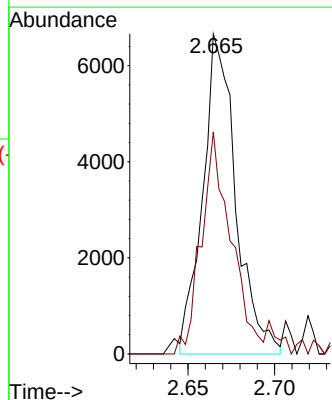
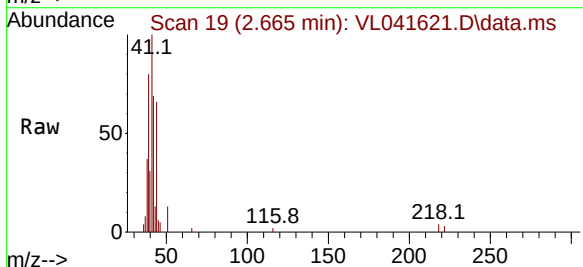
Instrument :
MSVOA_L
ClientSampleId :

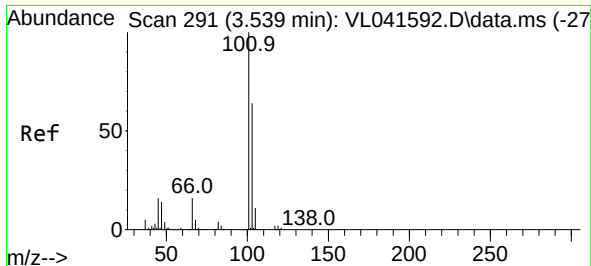
Tgt Ion: 94 Resp: 1043
Ion Ratio Lower Upper
94 100
96 100.1 73.4 110.2



#9
Propene
Concen: 0.163 ppbv
RT: 2.665 min Scan# 19
Delta R.T. -0.006 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

Tgt Ion: 41 Resp: 8839
Ion Ratio Lower Upper
41 100
42 69.2 55.2 82.8





#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 3.536 min Scan# 291

Delta R.T. -0.003 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

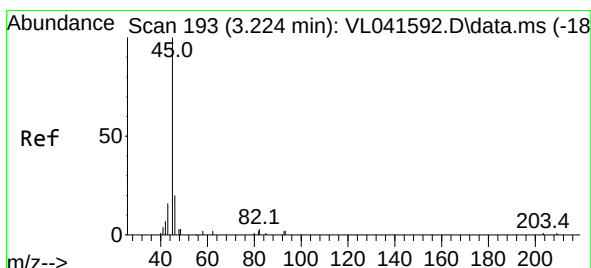
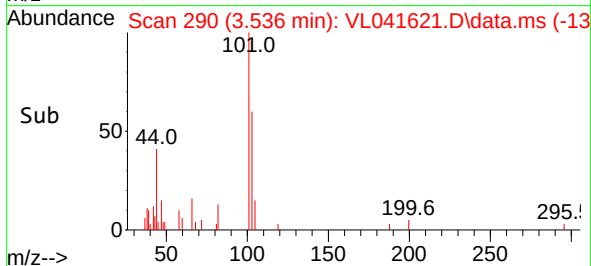
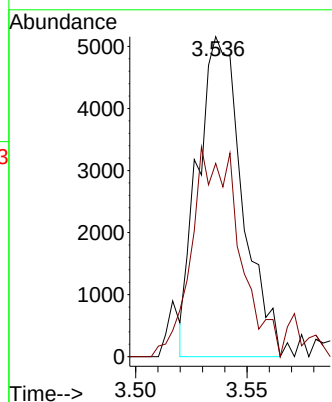
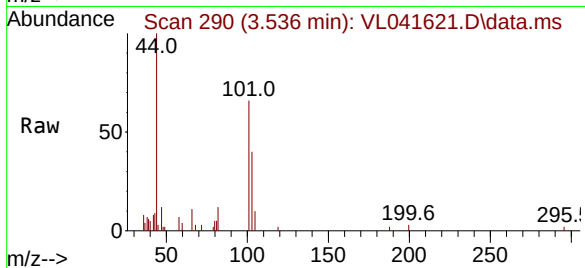
ClientSampleId :

Tgt Ion:101 Resp: 7167

Ion Ratio Lower Upper

101 100

103 60.4 51.2 76.8



#13

Ethanol

Concen: 0.057 ppbv

RT: 3.227 min Scan# 194

Delta R.T. 0.003 min

Lab File: VL041621.D

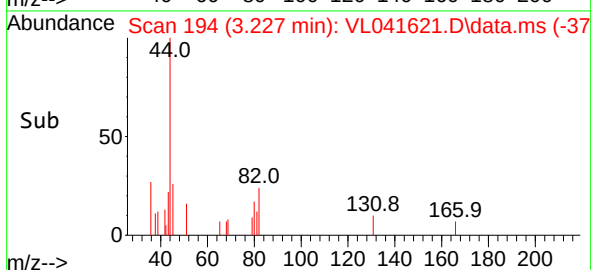
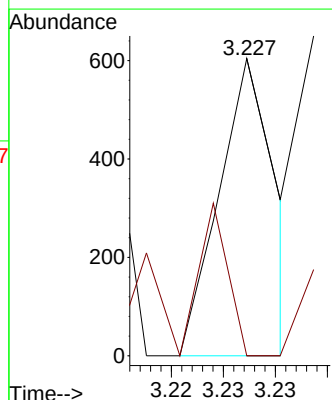
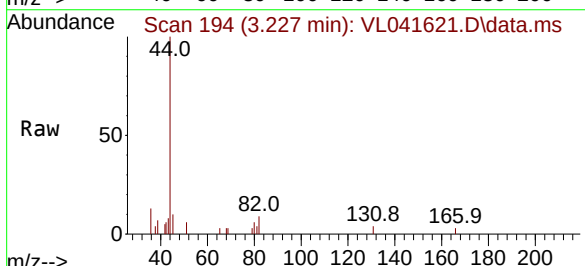
Acq: 25 Sep 2024 13:14

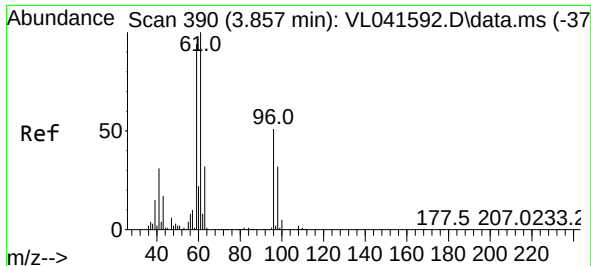
Tgt Ion: 45 Resp: 231

Ion Ratio Lower Upper

45 100

46 58.0 15.2 60.8

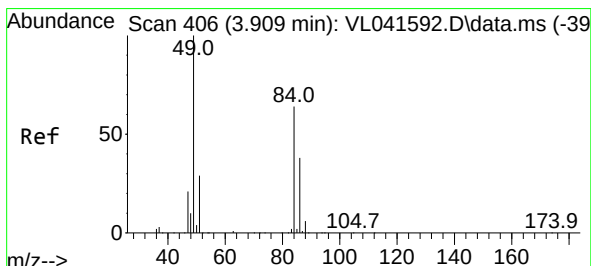
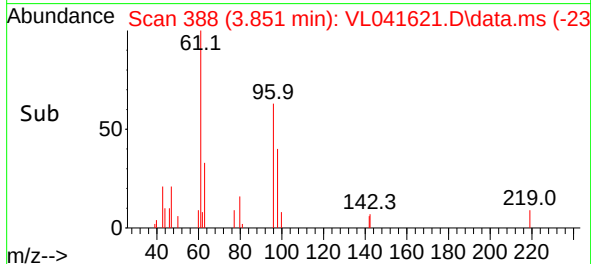
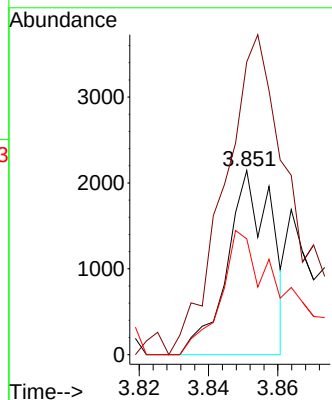
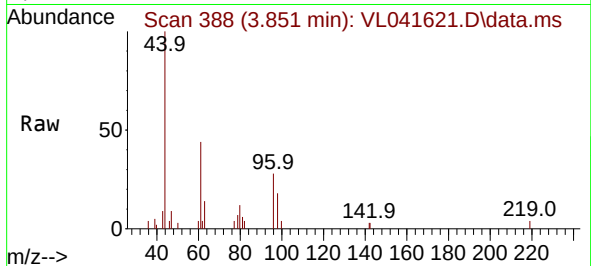




#18
1,1-Dichloroethene
Concen: 0.038 ppbv
RT: 3.851 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

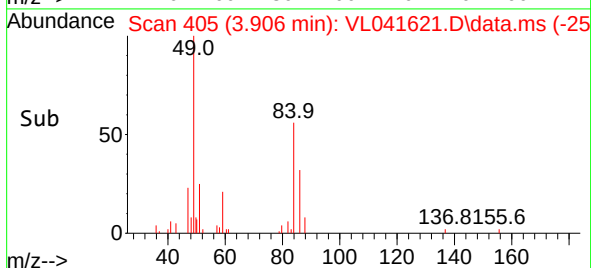
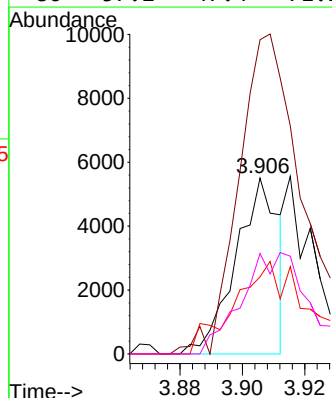
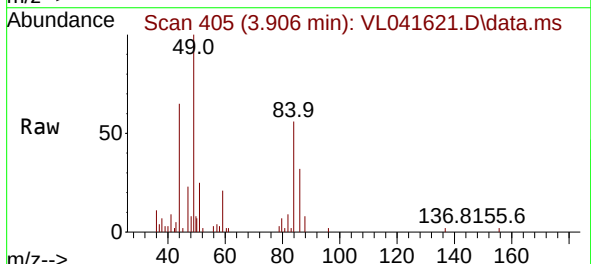
Instrument :
MSVOA_L
ClientSampleId :

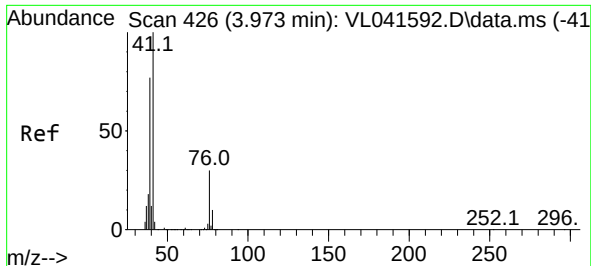
Tgt Ion: 96 Resp: 1900
Ion Ratio Lower Upper
96 100
61 161.7 155.6 233.4
98 62.9 50.6 75.8



#20
Methylene Chloride
Concen: 0.104 ppbv
RT: 3.906 min Scan# 405
Delta R.T. -0.003 min
Lab File: VL041621.D
Acq: 25 Sep 2024 13:14

Tgt Ion: 84 Resp: 5223
Ion Ratio Lower Upper
84 100
49 188.7 124.3 186.5#
51 43.8 36.3 54.5
86 57.2 47.4 71.2





#21

Allyl Chloride

Concen: 0.039 ppbv

RT: 3.973 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041621.D

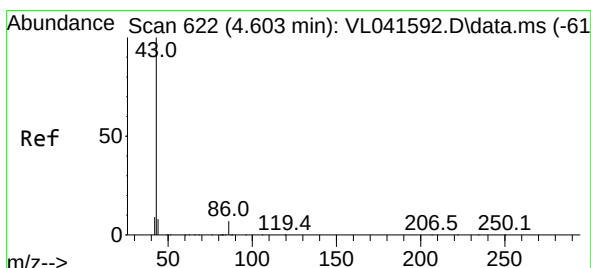
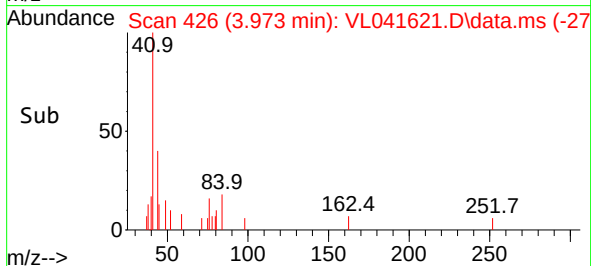
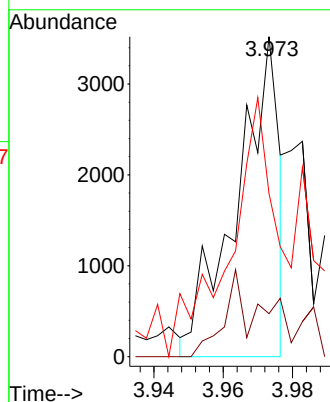
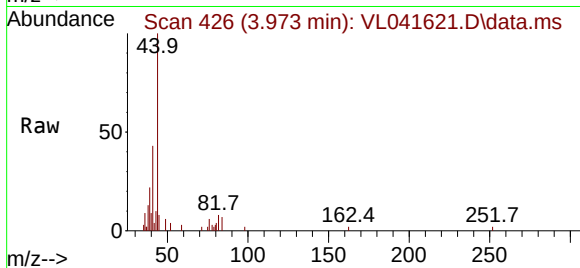
Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 41	Resp: 3004
Ion Ratio	Lower Upper
41	100
76	32.1 23.8 35.6
39	142.4 63.9 95.9#



#23

Vinyl Acetate

Concen: 0.034 ppbv

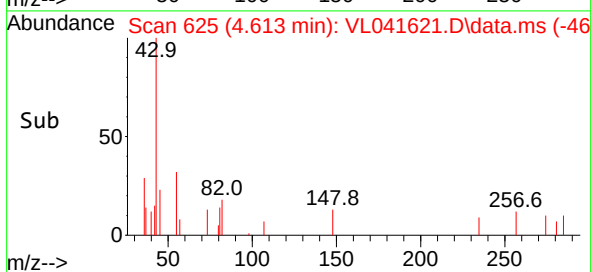
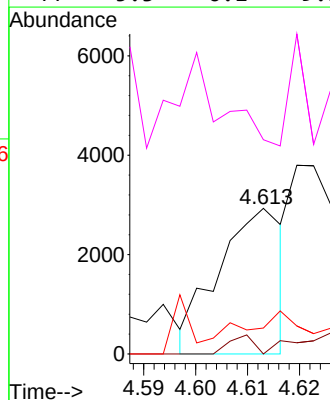
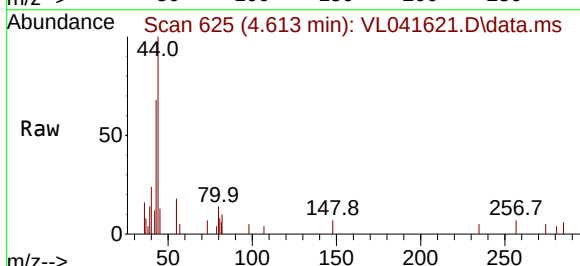
RT: 4.613 min Scan# 625

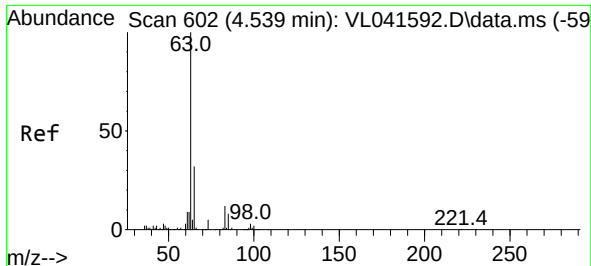
Delta R.T. 0.010 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Tgt Ion: 43	Resp: 2514
Ion Ratio	Lower Upper
43	100
86	0.0 4.9 7.3#
42	0.0 8.0 12.0#
44	5.3 6.1 9.1#





#24

1,1-Dichloroethane

Concen: 0.051 ppbv

RT: 4.546 min Scan# 602

Delta R.T. 0.007 min

Lab File: VL041621.D

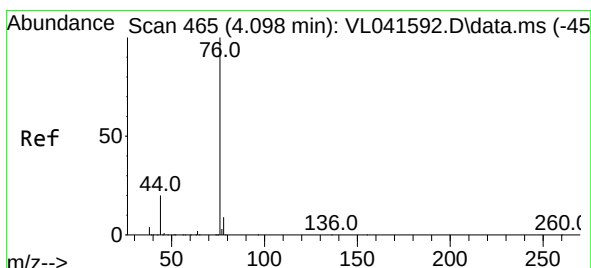
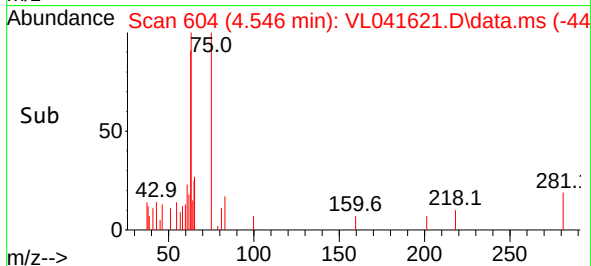
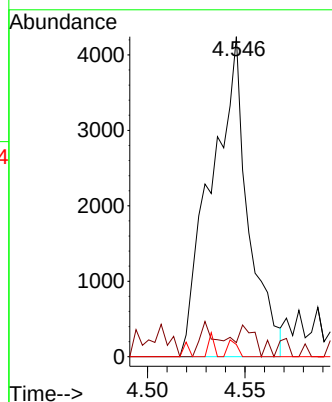
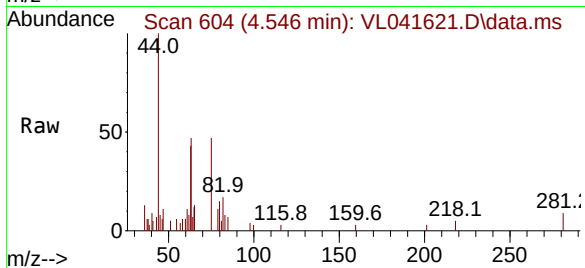
Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 63	Resp: 5559
Ion Ratio	Lower Upper
63	100
98	4.4 1.7 5.1
100	3.8 1.1 3.3#



#27

Carbon Disulfide

Concen: 0.038 ppbv

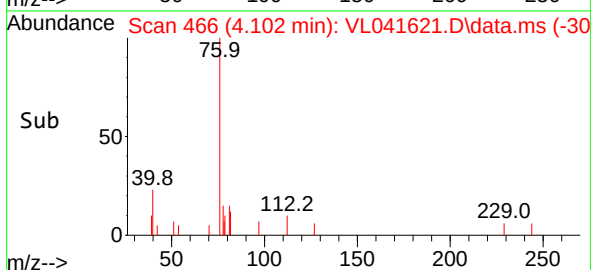
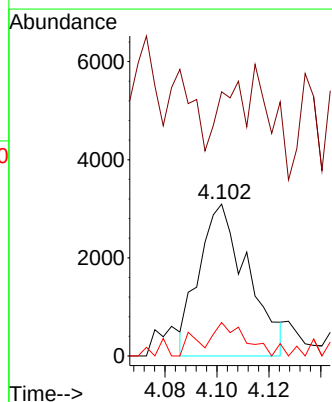
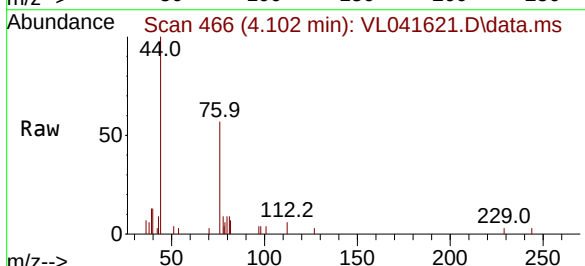
RT: 4.102 min Scan# 466

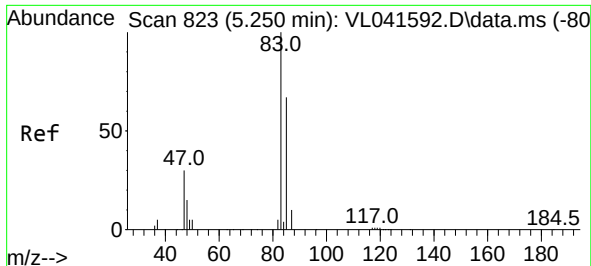
Delta R.T. 0.003 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Tgt Ion: 76	Resp: 4029
Ion Ratio	Lower Upper
76	100
44	0.0 15.8 23.8#
78	21.2 7.5 11.3#





#29

Chloroform

Concen: 0.030 ppbv

RT: 5.256 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

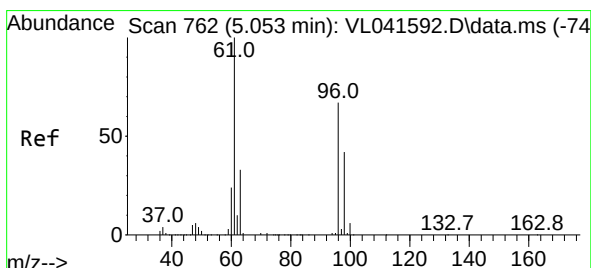
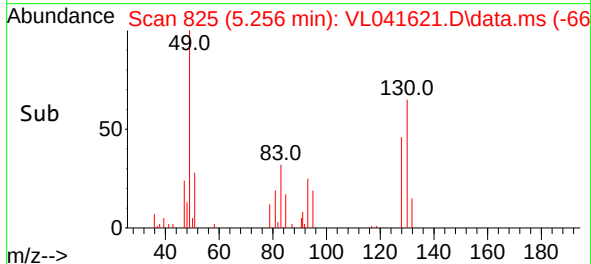
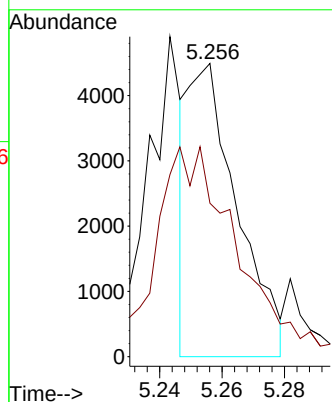
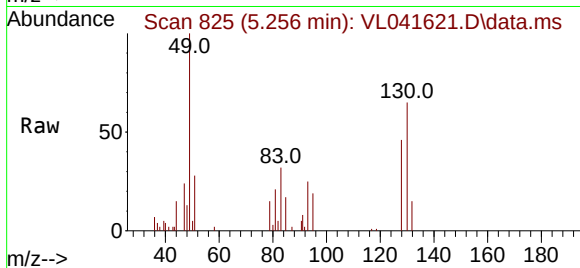
ClientSampleId :

Tgt Ion: 83 Resp: 4918

Ion Ratio Lower Upper

83 100

85 49.3 53.8 80.6#



#31

cis-1,2-Dichloroethene

Concen: 0.030 ppbv

RT: 5.057 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

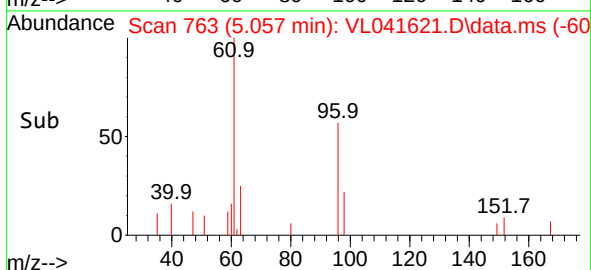
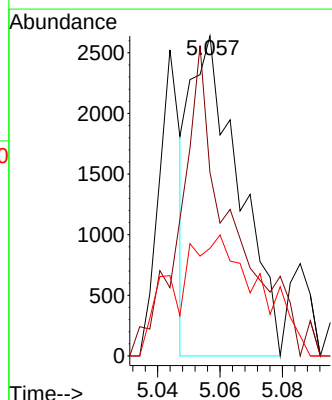
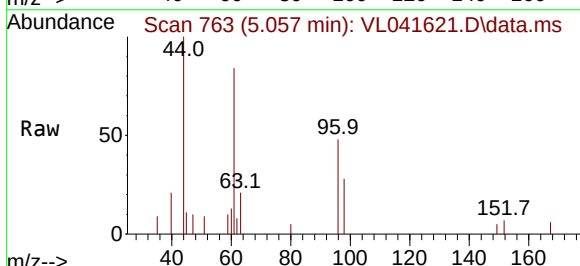
Tgt Ion: 61 Resp: 2887

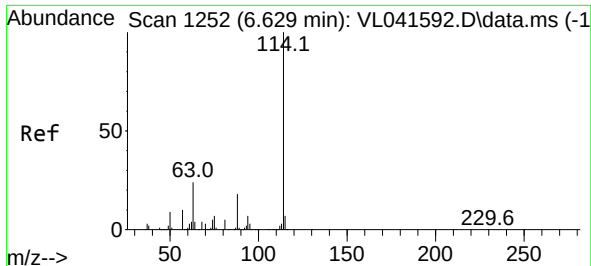
Ion Ratio Lower Upper

61 100

96 32.4 53.5 80.3#

98 21.0 33.7 50.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

ClientSampleId :

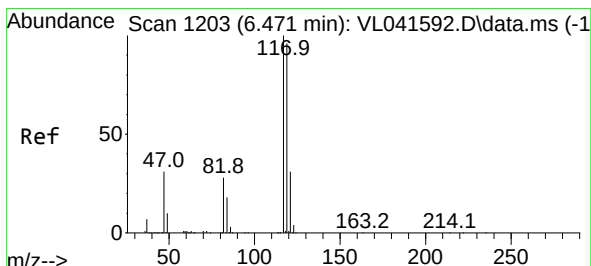
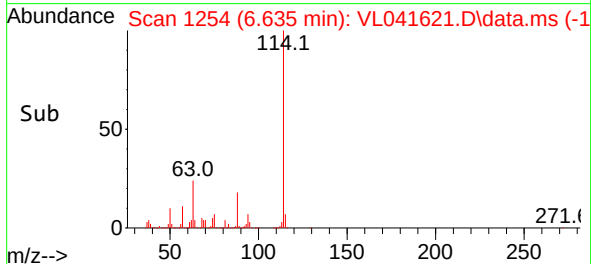
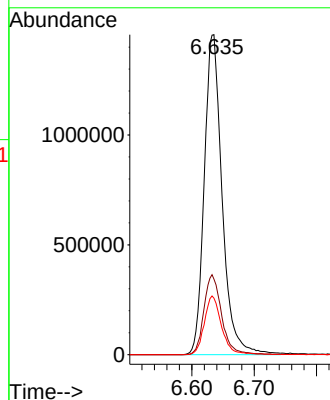
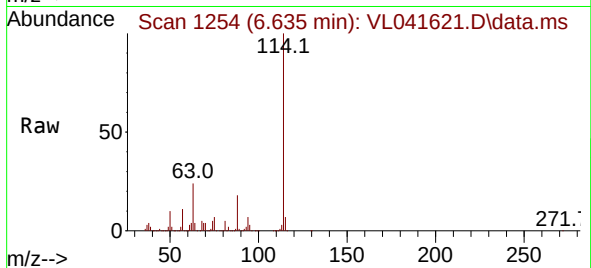
Tgt Ion:114 Resp: 2911559

Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.2

88 17.8 14.2 21.4



#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 6.471 min Scan# 1203

Delta R.T. 0.000 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

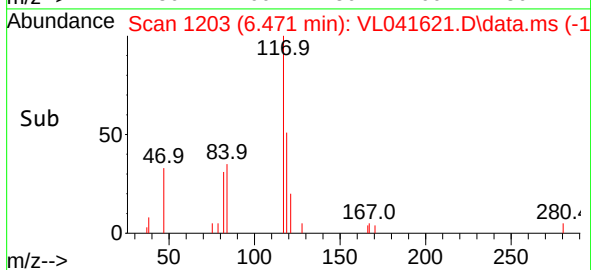
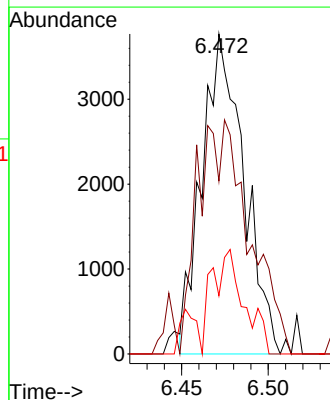
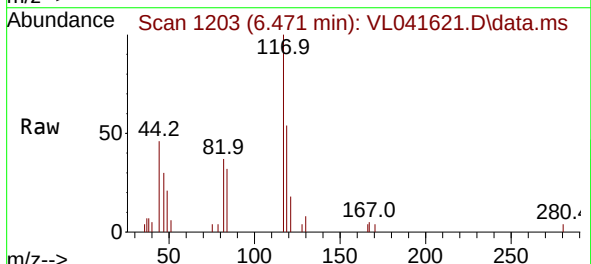
Tgt Ion:117 Resp: 6352

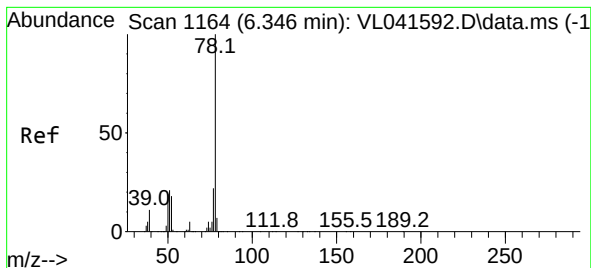
Ion Ratio Lower Upper

117 100

119 54.1 76.8 115.2#

121 18.2 25.0 37.6#





#36

Benzene

Concen: 0.036 ppbv

RT: 6.349 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041621.D

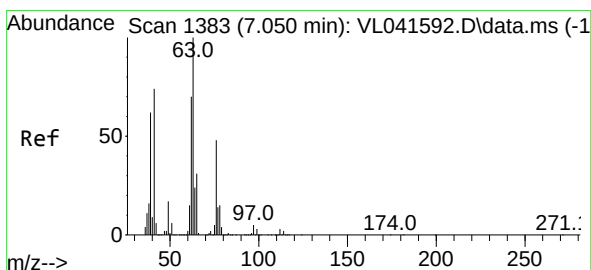
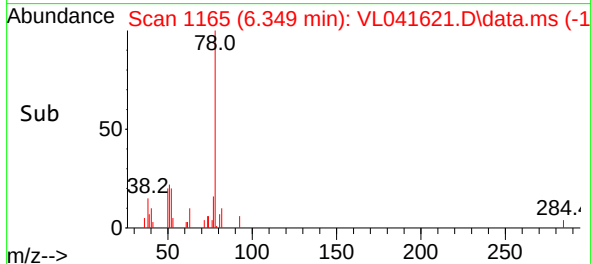
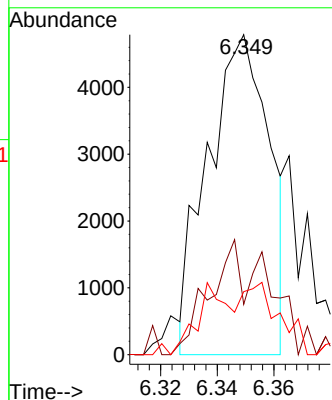
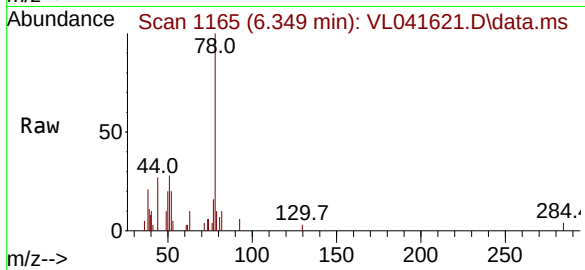
Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	78	Resp:	7244
Ion	Ratio	Lower	Upper
78	100		
77	13.7	17.8	26.6#
50	17.5	15.4	23.0



#39

1,2-Dichloropropane

Concen: 8.709 ppbv

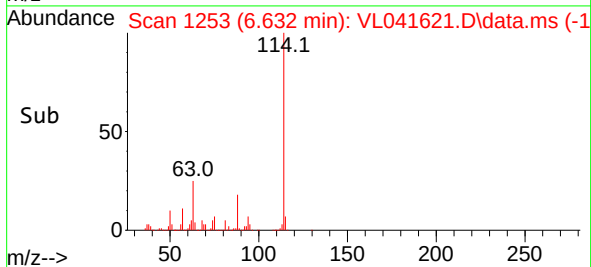
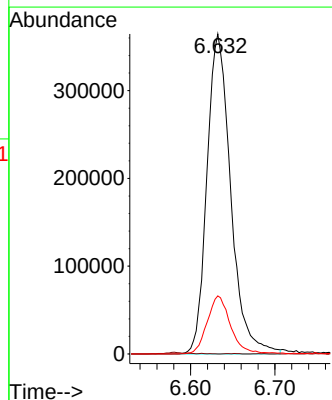
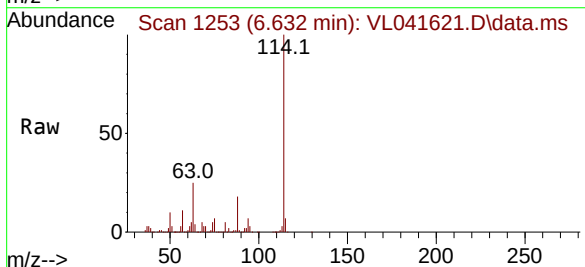
RT: 6.632 min Scan# 1253

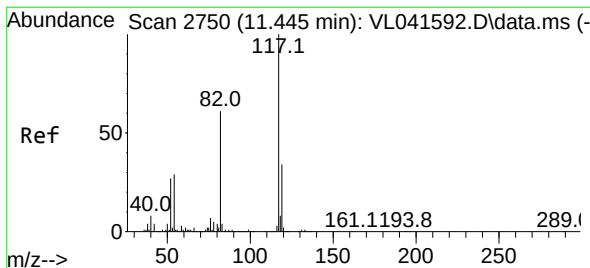
Delta R.T. -0.418 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Tgt Ion:	63	Resp:	716379
Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.5	89.3#
62	18.1	56.2	84.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.452 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

Instrument :

MSVOA_L

ClientSampleId :

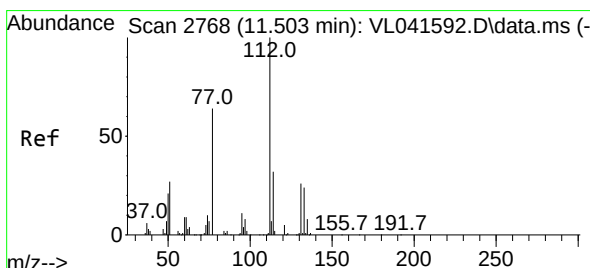
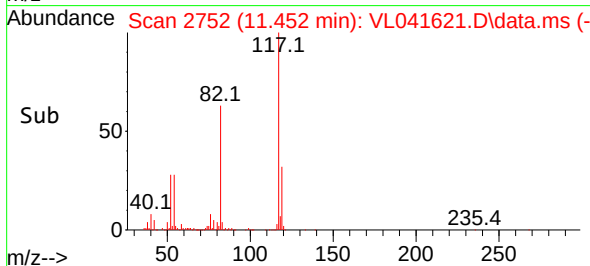
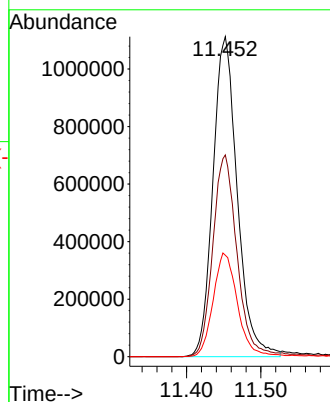
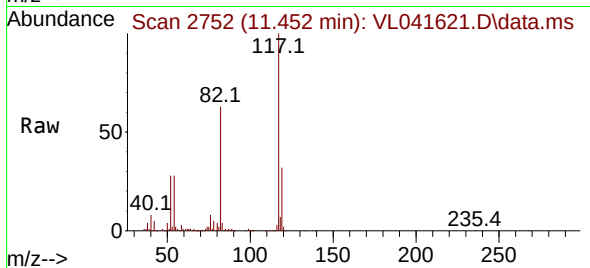
Tgt Ion:117 Resp: 2533696

Ion Ratio Lower Upper

117 100

82 64.4 49.4 74.2

119 33.0 24.4 36.6



#57

Chlorobenzene

Concen: 0.034 ppbv

RT: 11.510 min Scan# 2770

Delta R.T. 0.007 min

Lab File: VL041621.D

Acq: 25 Sep 2024 13:14

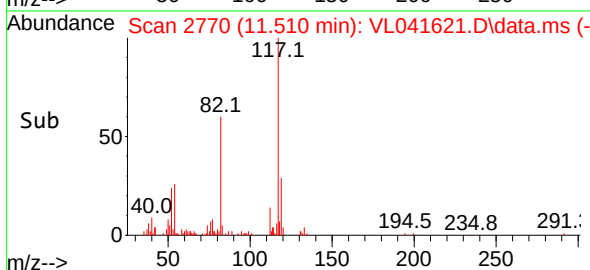
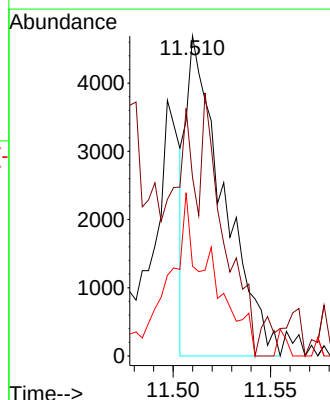
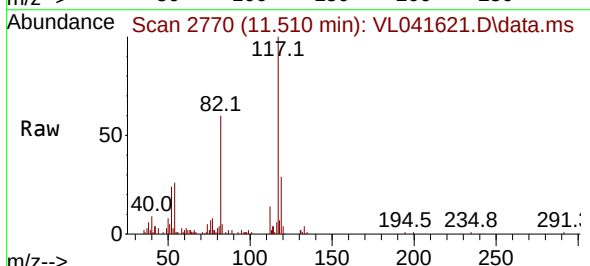
Tgt Ion:112 Resp: 6246

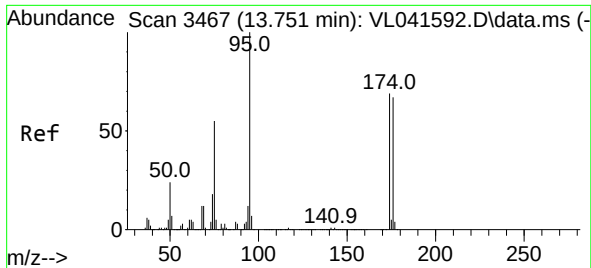
Ion Ratio Lower Upper

112 100

77 22.4 52.0 78.0#

114 19.7 28.6 35.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 13.761 min Scan# 34
 Delta R.T. 0.010 min
 Lab File: VL041621.D
 Acq: 25 Sep 2024 13:14

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 1851431
 Ion Ratio Lower Upper
 95 100
 174 70.8 55.8 83.8
 175 5.3 4.1 6.1

