

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040688.D
 Acq On : 14 Sep 2023 17:04
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

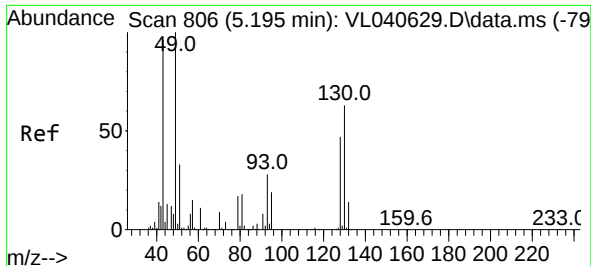
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 15 05:52:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 14 19:50:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1017540	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2753409	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2283854	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1782289	10.101	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	7461	0.033	ppbv	95
3) Chlorodifluoromethane	2.671	51	6668	0.040	ppbv	94
4) Chloromethane	2.800	50	807	0.013	ppbv	96
5) Vinyl Chloride	2.912	62	2368	0.032	ppbv #	71
7) Chloroethane	3.189	64	910	0.035	ppbv #	44
8) Dichlorotetrafluoroethane	2.845	85	2628	0.014	ppbv #	17
9) Propene	2.697	41	5012	0.105	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.050	101	1811	0.013	ppbv #	14
16) 1,3-Butadiene	2.964	39	907	0.016	ppbv #	9
20) Methylene Chloride	3.928	84	16513	0.229	ppbv	98
22) trans-1,2-Dichloroethene	4.433	96	902	0.015	ppbv #	78
24) 1,1-Dichloroethane	4.549	63	1790	0.014	ppbv #	90
26) Hexane	5.201	57	2779	0.027	ppbv #	1
27) Carbon Disulfide	4.118	76	3237	0.023	ppbv #	1
36) Benzene	6.359	78	2951	0.014	ppbv #	91
38) Trichloroethene	7.288	130	868	0.011	ppbv #	1
39) 1,2-Dichloropropane	6.642	63	703310	8.962	ppbv #	23
43) Methyl Methacrylate	7.478	69	809	0.011	ppbv #	1
47) 1,1,2-Trichloroethane	8.889	97	1652	0.018	ppbv #	53
54) 1,2-Dibromoethane	10.008	107	1253	0.011	ppbv	89
57) Chlorobenzene	11.510	112	2689	0.016	ppbv #	69
62) Isopropylbenzene	14.024	105	4009	0.011	ppbv #	62

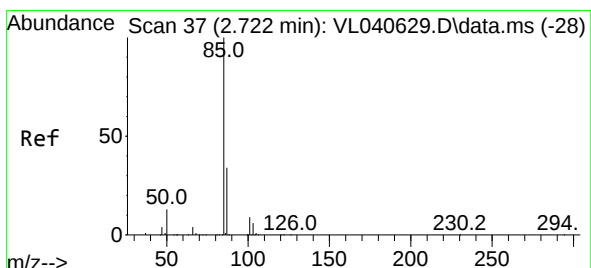
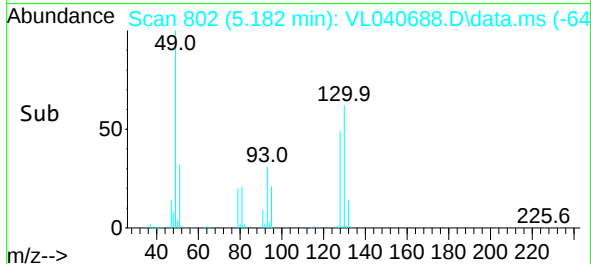
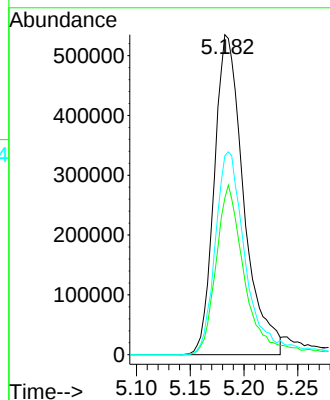
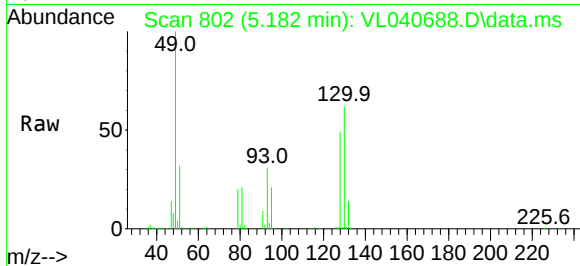
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

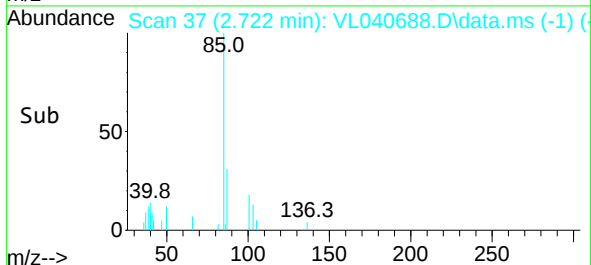
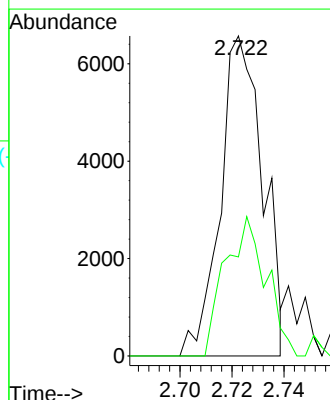
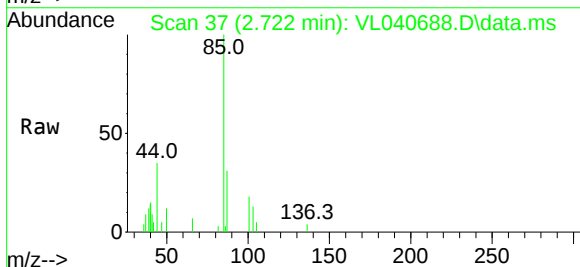
Instrument :
MSVOA_L
ClientSampleId :

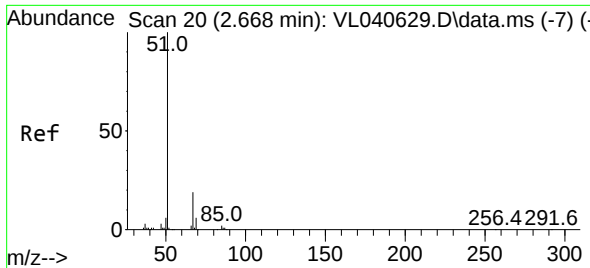
Tgt Ion: 49 Resp: 1017540
Ion Ratio Lower Upper
49 100
128 52.8 25.4 76.0
130 67.6 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion: 85 Resp: 7461
Ion Ratio Lower Upper
85 100
87 31.0 27.2 40.8

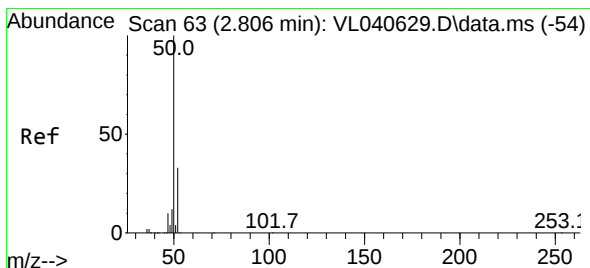
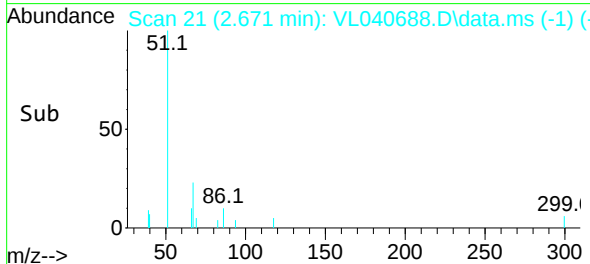
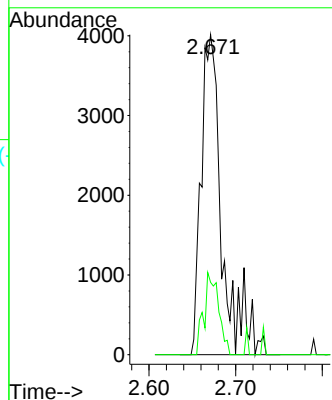
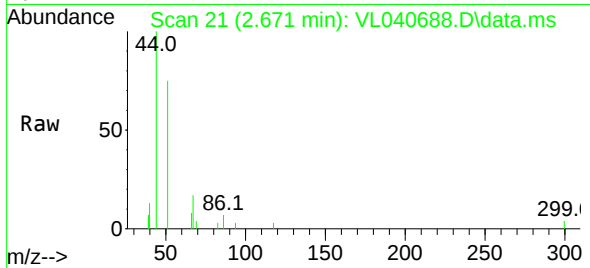




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

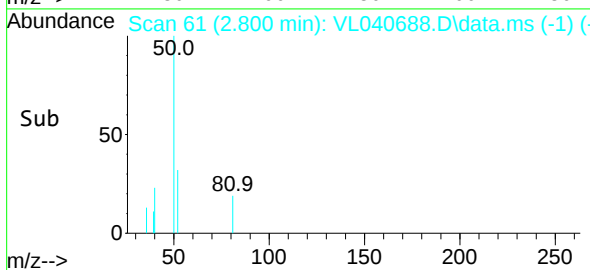
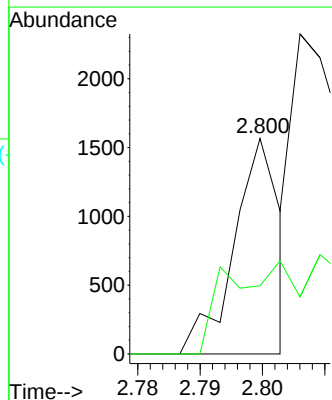
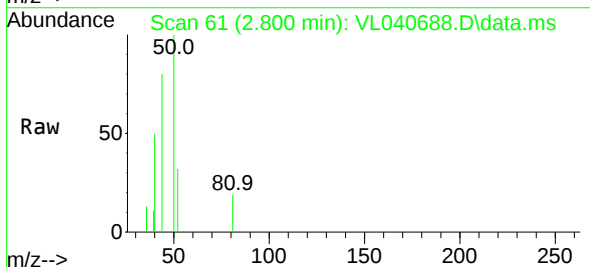
Instrument :
MSVOA_L
ClientSampleId :

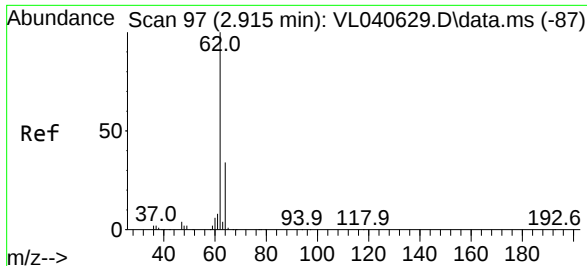
Tgt Ion: 51 Resp: 6668
Ion Ratio Lower Upper
51 100
67 18.2 16.7 25.1



#4
Chloromethane
Concen: 0.013 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion: 50 Resp: 807
Ion Ratio Lower Upper
50 100
52 31.6 27.1 40.7

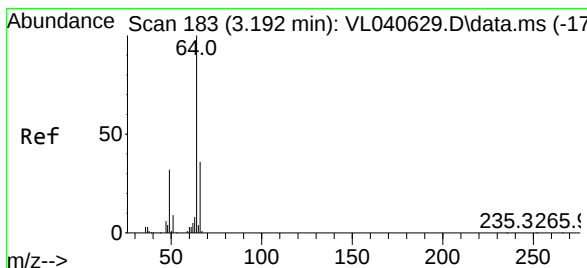
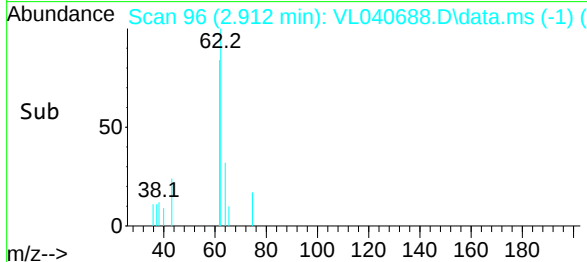
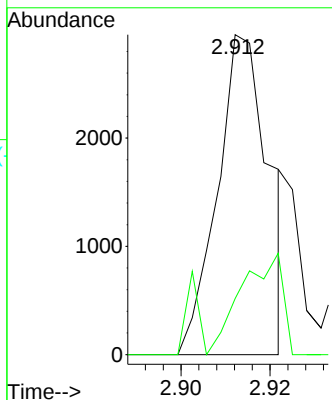
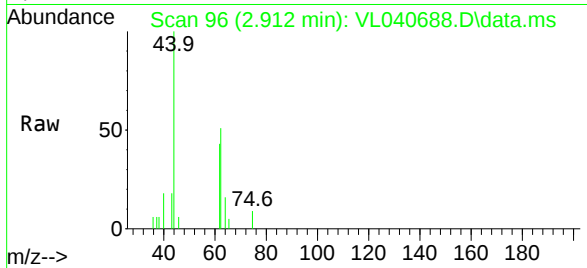




#5
 Vinyl Chloride
 Concen: 0.032 ppbv
 RT: 2.912 min Scan# 90
 Delta R.T. 0.003 min
 Lab File: VL040688.D
 Acq: 14 Sep 2023 17:04

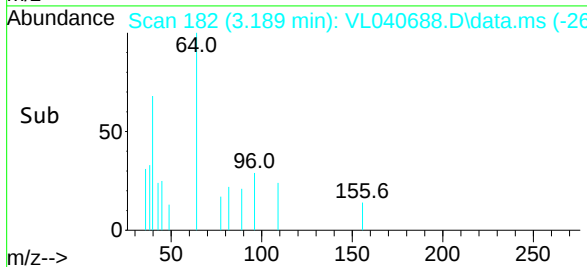
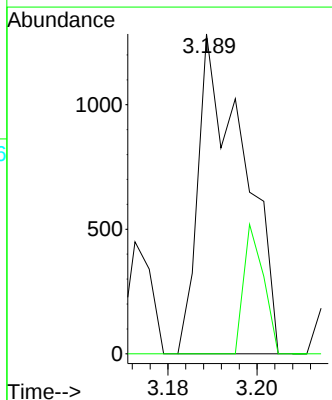
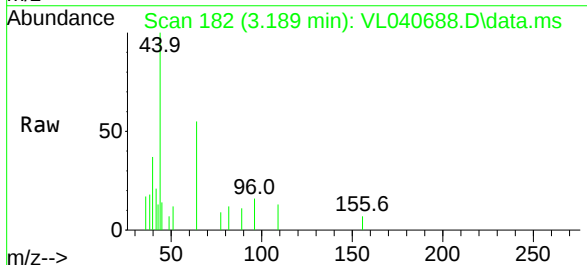
Instrument :
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 ClientSampleId :

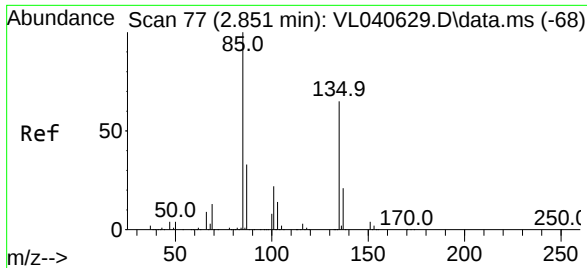
Tgt Ion: 62 Resp: 2368
 Ion Ratio Lower Upper
 62 100
 64 17.6 27.2 40.8#



#7
 Chloroethane
 Concen: 0.035 ppbv
 RT: 3.189 min Scan# 182
 Delta R.T. 0.000 min
 Lab File: VL040688.D
 Acq: 14 Sep 2023 17:04

Tgt Ion: 64 Resp: 910
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.5 36.7#

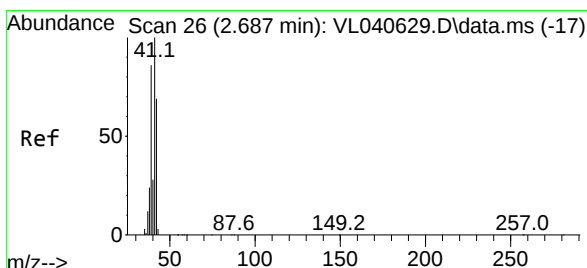
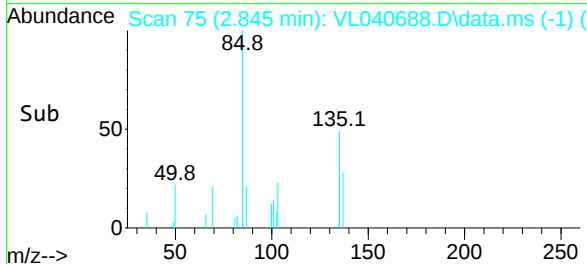
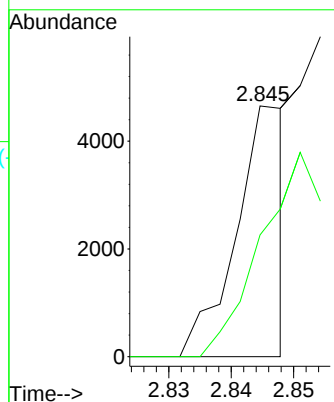
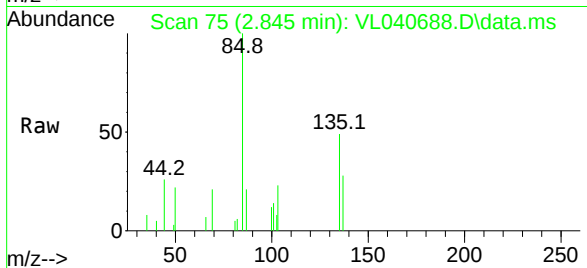




#8
 Dichlorotetrafluoroethane
 Concen: 0.014 ppbv
 RT: 2.845 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL040688.D
 Acq: 14 Sep 2023 17:04

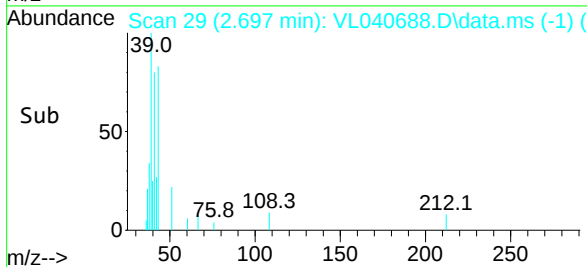
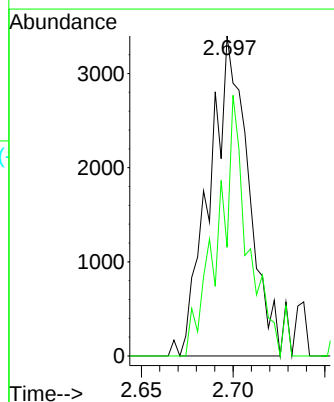
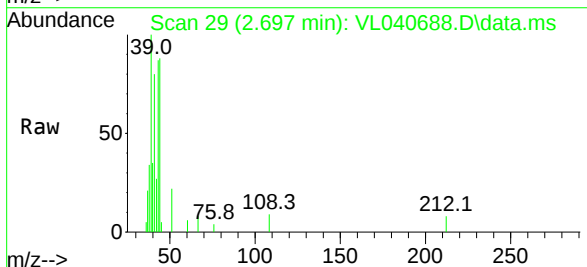
Instrument :
 MSVOA_L
 ClientSampleId :

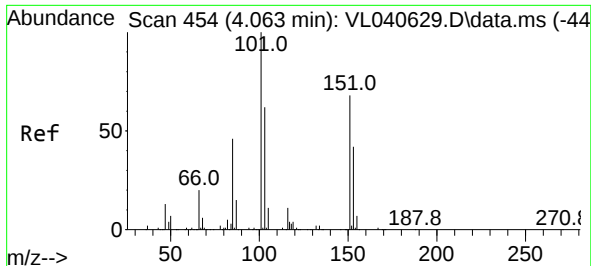
Tgt Ion: 85 Resp: 2628
 Ion Ratio Lower Upper
 85 100
 135 0.0 53.4 80.2#



#9
 Propene
 Concen: 0.105 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.013 min
 Lab File: VL040688.D
 Acq: 14 Sep 2023 17:04

Tgt Ion: 41 Resp: 5012
 Ion Ratio Lower Upper
 41 100
 42 63.8 56.7 85.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.013 ppbv

RT: 4.050 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL040688.D

Acq: 14 Sep 2023 17:04

Instrument :

MSVOA_L

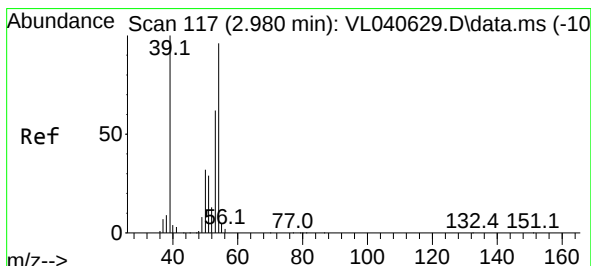
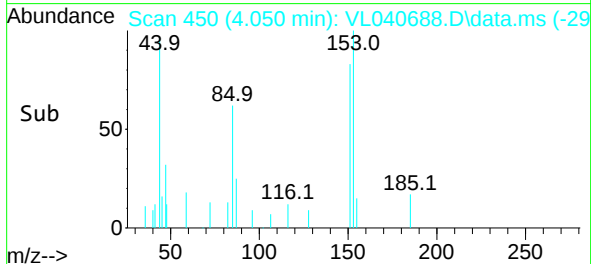
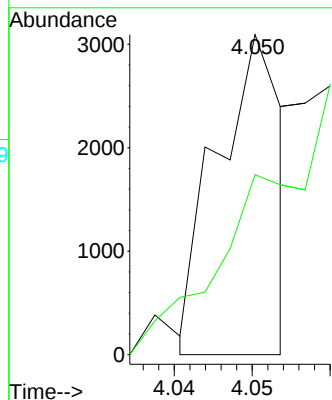
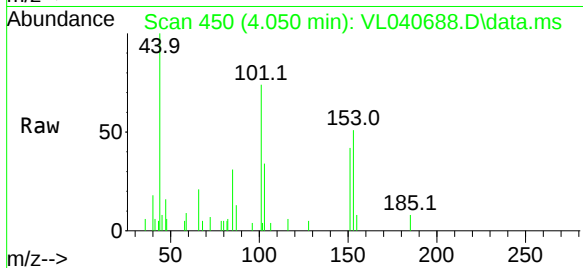
ClientSampleId :

Tgt Ion:101 Resp: 1811

Ion Ratio Lower Upper

101 100

151 0.0 56.8 85.2#



#16

1,3-Butadiene

Concen: 0.016 ppbv

RT: 2.964 min Scan# 112

Delta R.T. -0.010 min

Lab File: VL040688.D

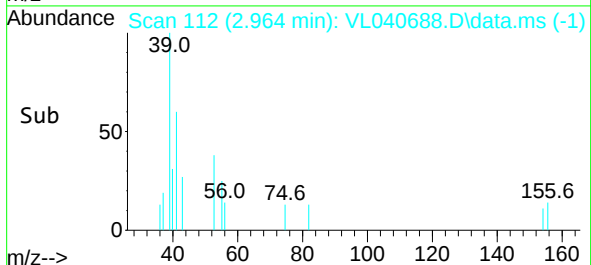
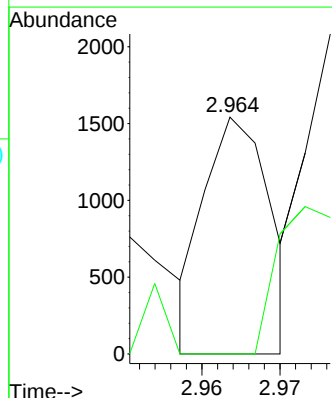
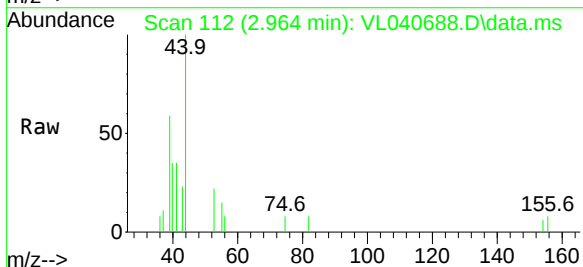
Acq: 14 Sep 2023 17:04

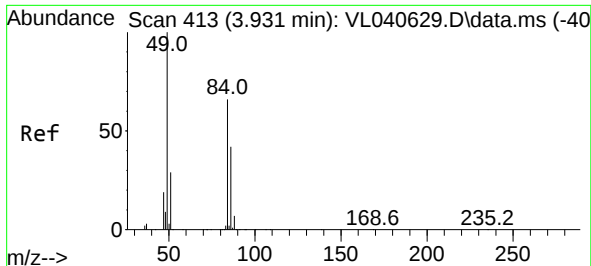
Tgt Ion: 39 Resp: 907

Ion Ratio Lower Upper

39 100

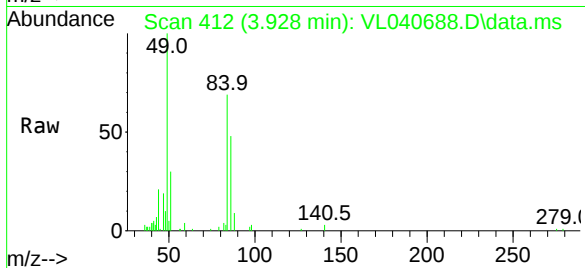
54 0.0 64.8 97.2#





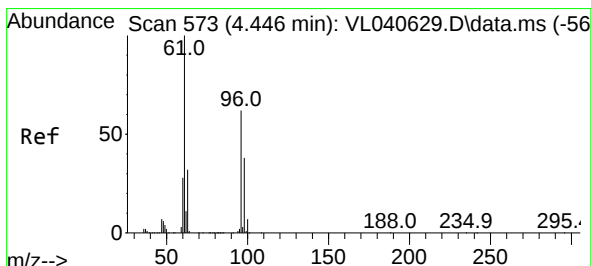
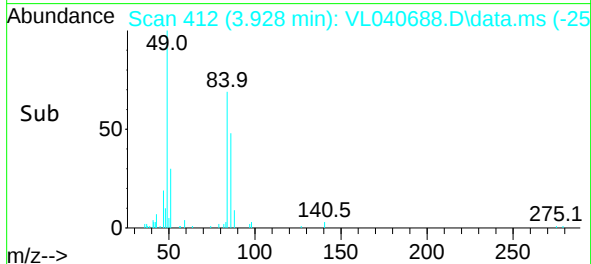
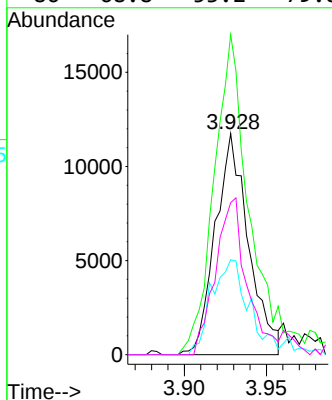
#20
Methylene Chloride
Concen: 0.229 ppbv
RT: 3.928 min Scan# 413
Delta R.T. 0.006 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 16513

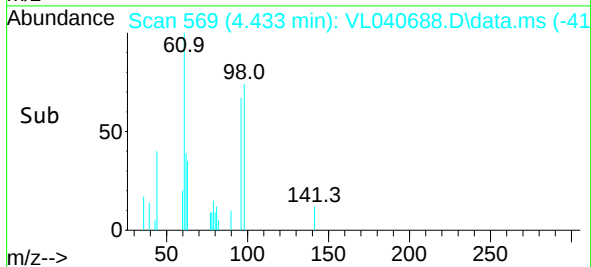
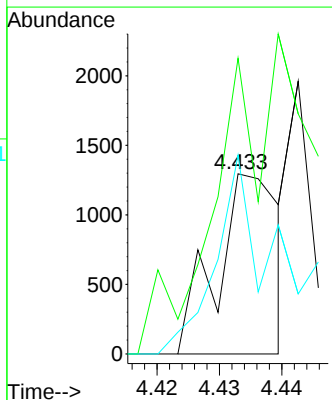
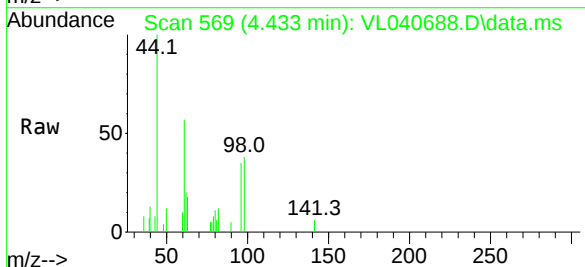
Ion	Ratio	Lower	Upper
84	100		
49	144.7	114.4	171.6
51	42.9	35.5	53.3
86	68.8	53.2	79.8

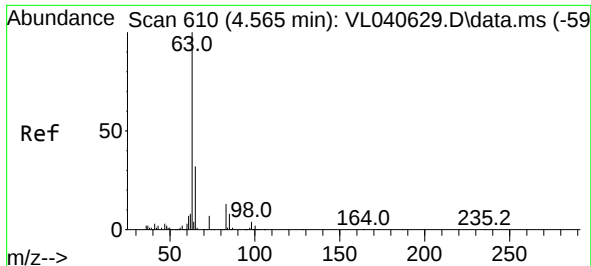


#22
trans-1,2-Dichloroethene
Concen: 0.015 ppbv
RT: 4.433 min Scan# 569
Delta R.T. 0.000 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion: 96 Resp: 902

Ion	Ratio	Lower	Upper
96	100		
61	144.9	129.9	194.9
98	98.3	50.2	75.4

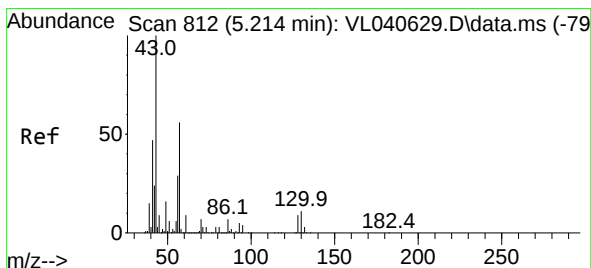
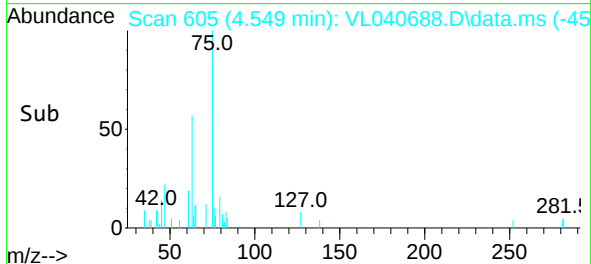
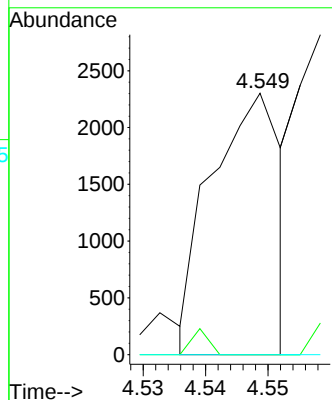
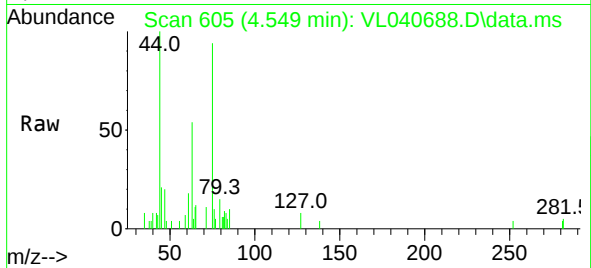




#24
1,1-Dichloroethane
Concen: 0.014 ppbv
RT: 4.549 min Scan# 60
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

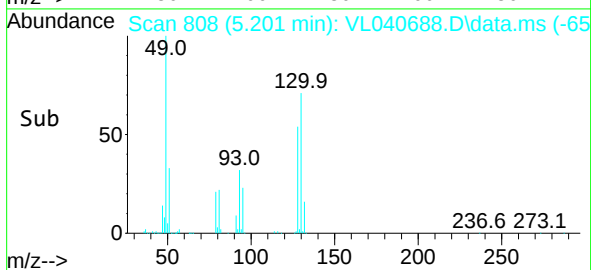
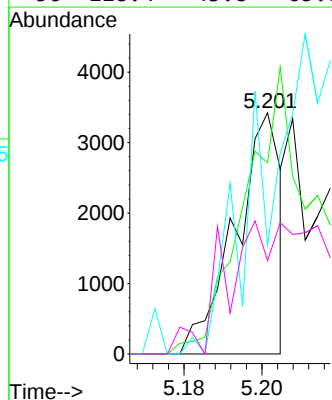
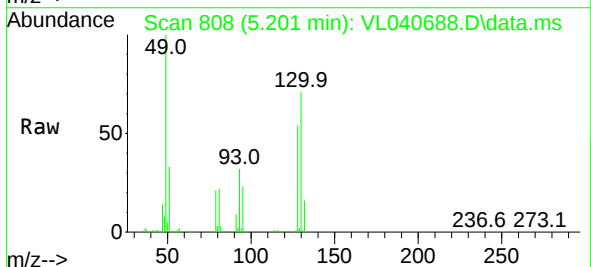
Instrument :
MSVOA_L
ClientSampleId :

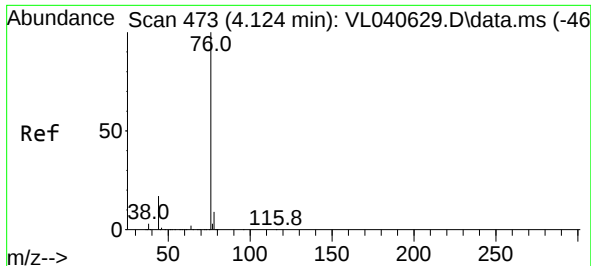
Tgt Ion: 63 Resp: 1790
Ion Ratio Lower Upper
63 100
98 0.0 1.8 5.5#
100 0.0 1.2 3.6#



#26
Hexane
Concen: 0.027 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

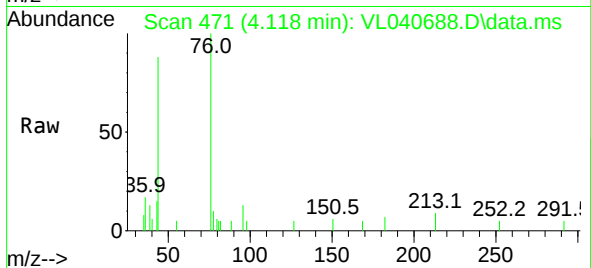
Tgt Ion: 57 Resp: 2779
Ion Ratio Lower Upper
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43 0.0 185.6 278.4#
56 118.4 43.8 65.8#



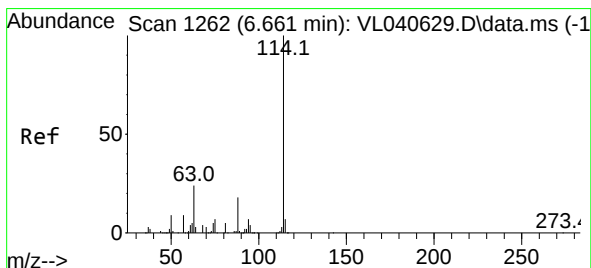
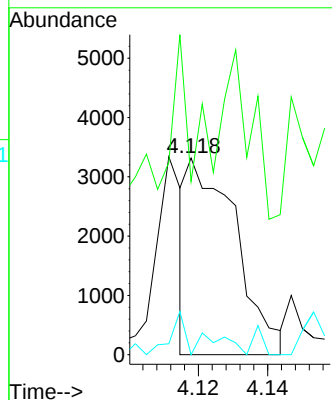
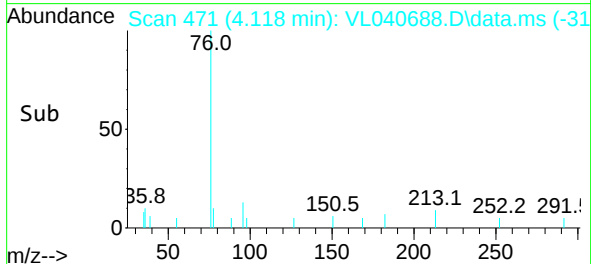


#27
Carbon Disulfide
Concen: 0.023 ppbv
RT: 4.118 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

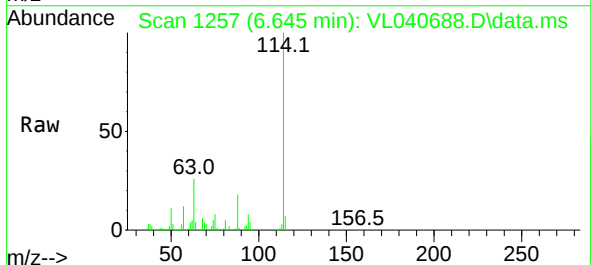
Instrument :
MSVOA_L
ClientSampleId :



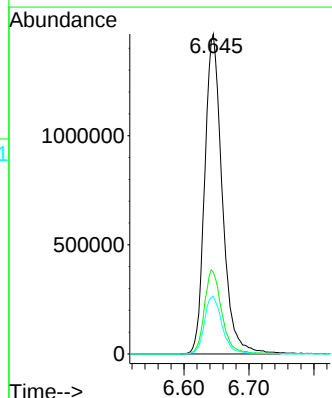
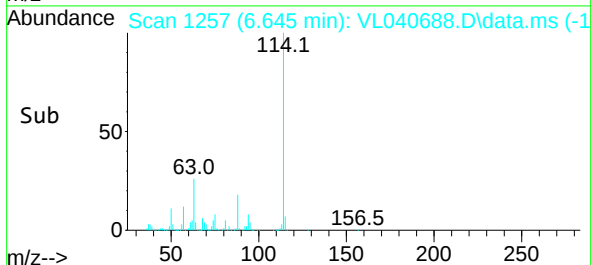
Tgt Ion: 76 Resp: 3237
Ion Ratio Lower Upper
76 100
44 143.5 14.5 21.7#
78 0.0 7.7 11.5#

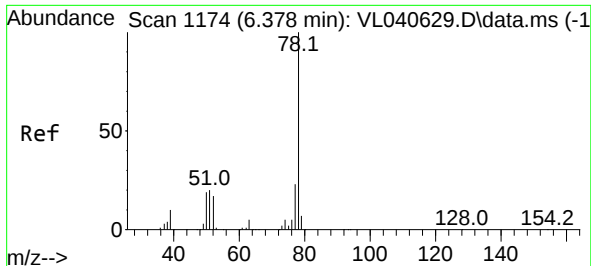


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04



Tgt Ion: 114 Resp: 2753409
Ion Ratio Lower Upper
114 100
63 26.2 21.1 31.7
88 18.2 14.5 21.7

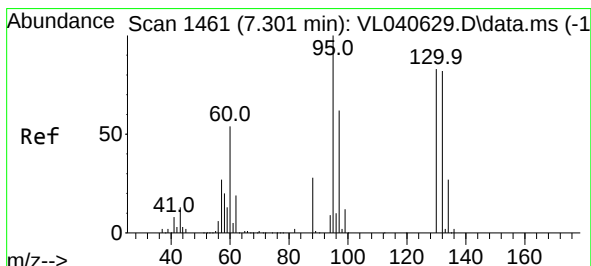
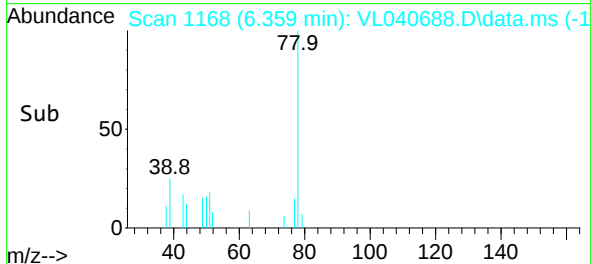
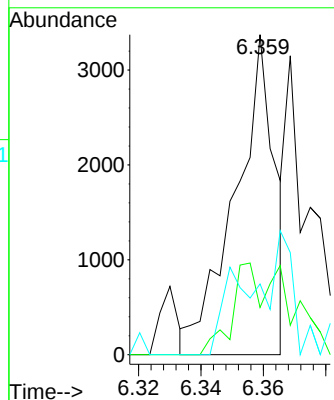
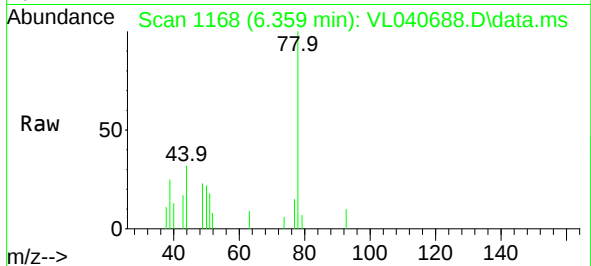




#36
Benzene
Concen: 0.014 ppbv
RT: 6.359 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

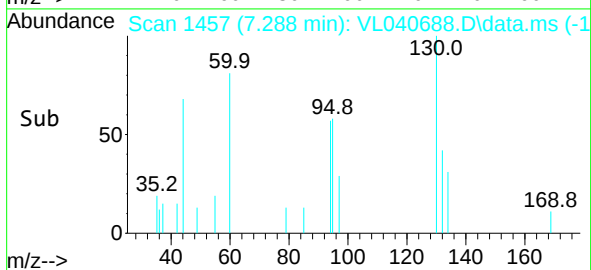
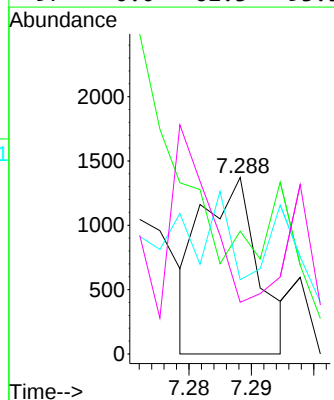
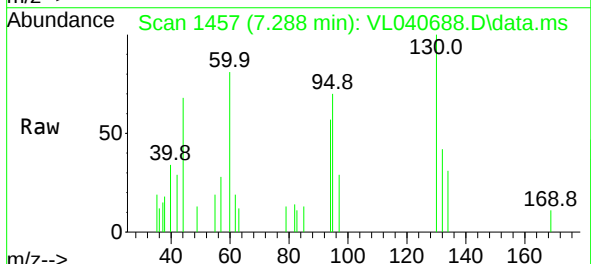
Instrument :
MSVOA_L
ClientSampleId :

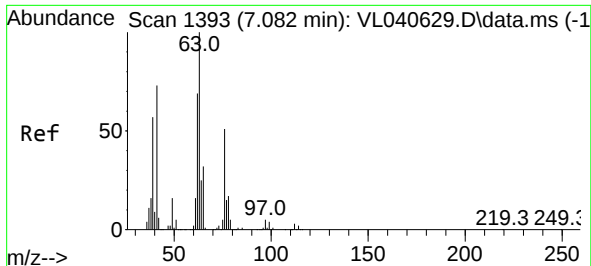
Tgt Ion: 78 Resp: 2951
Ion Ratio Lower Upper
78 100
77 16.1 17.9 26.9#
50 24.1 17.3 25.9



#38
Trichloroethene
Concen: 0.011 ppbv
RT: 7.288 min Scan# 1457
Delta R.T. 0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion:130 Resp: 868
Ion Ratio Lower Upper
130 100
95 0.0 91.9 137.9#
132 0.0 77.3 115.9#
97 0.0 62.3 93.5#





#39

1,2-Dichloropropane

Concen: 8.962 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.424 min

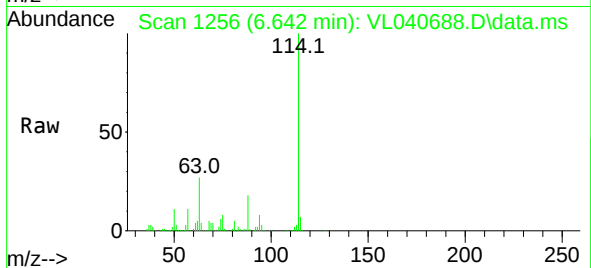
Lab File: VL040688.D

Acq: 14 Sep 2023 17:04

Instrument :

MSVOA_L

ClientSampleId :



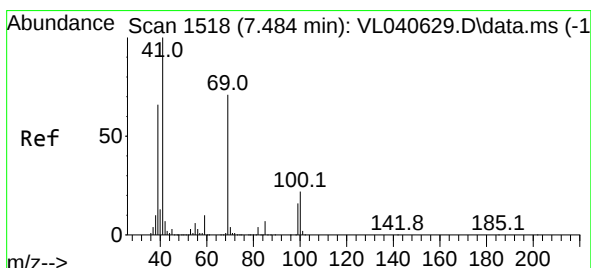
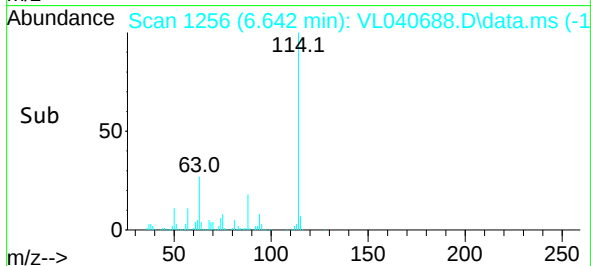
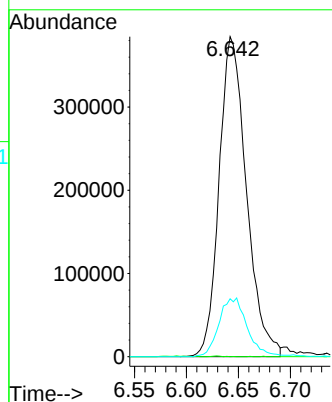
Tgt Ion: 63 Resp: 703310

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 18.1 55.8 83.8#



#43

Methyl Methacrylate

Concen: 0.011 ppbv

RT: 7.478 min Scan# 1516

Delta R.T. 0.010 min

Lab File: VL040688.D

Acq: 14 Sep 2023 17:04

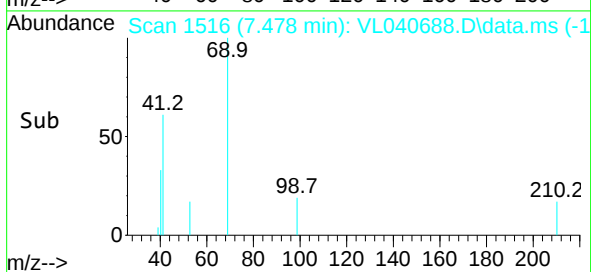
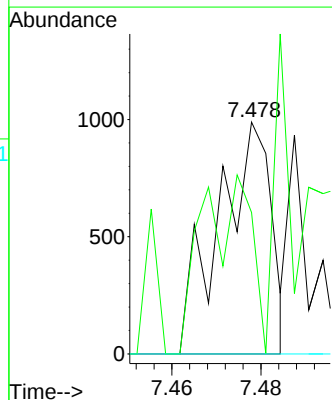
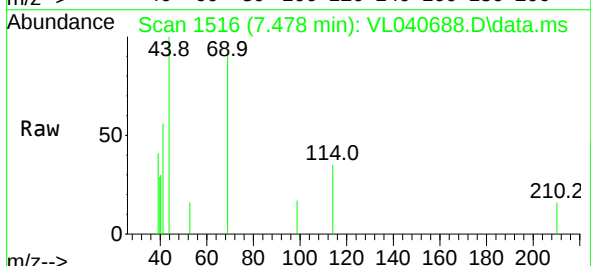
Tgt Ion: 69 Resp: 809

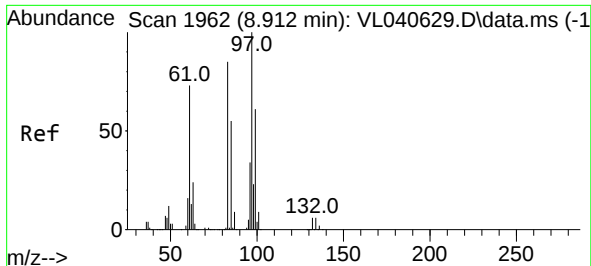
Ion Ratio Lower Upper

69 100

41 0.0 113.8 170.8#

100 0.0 25.4 38.0#





#47

1,1,2-Trichloroethane

Concen: 0.018 ppbv

RT: 8.889 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VL040688.D

Acq: 14 Sep 2023 17:04

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 97 Resp: 1652

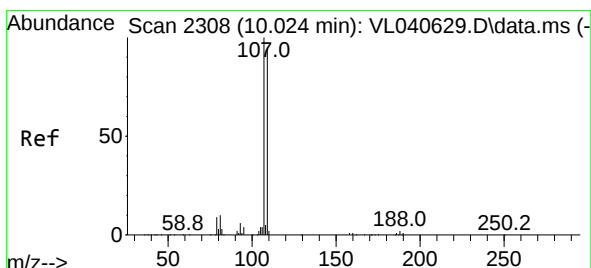
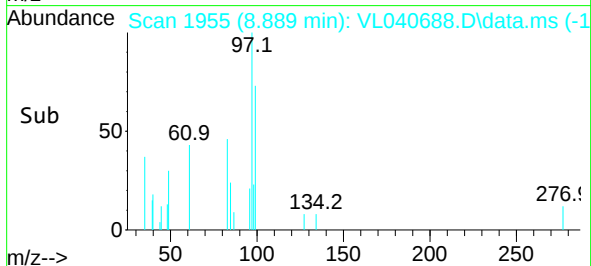
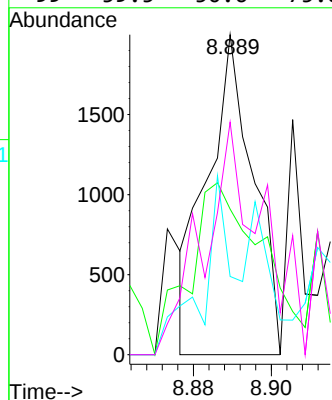
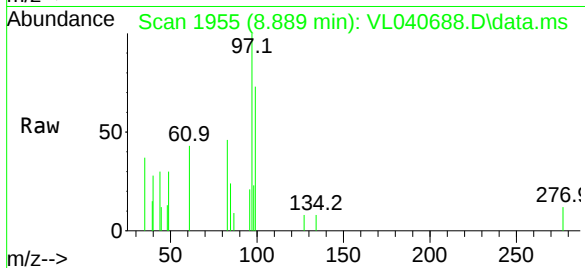
Ion Ratio Lower Upper

97 100

83 24.7 70.8 106.2#

85 13.6 45.7 68.5#

99 59.5 50.6 75.8



#54

1,2-Dibromoethane

Concen: 0.011 ppbv

RT: 10.008 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VL040688.D

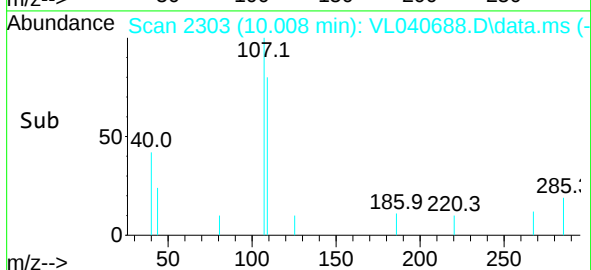
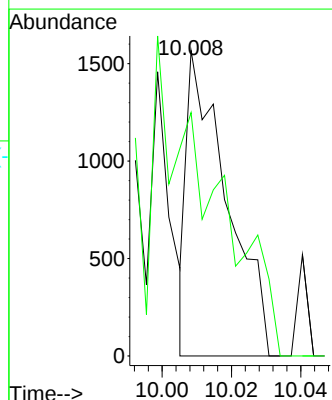
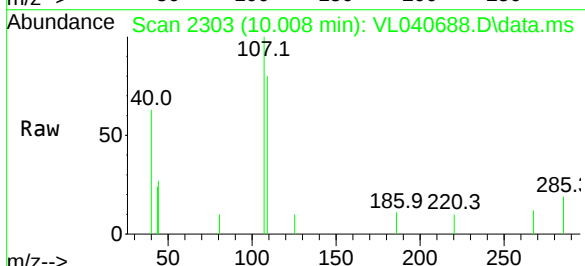
Acq: 14 Sep 2023 17:04

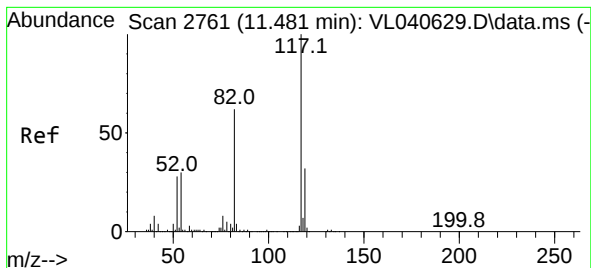
Tgt Ion: 107 Resp: 1253

Ion Ratio Lower Upper

107 100

109 79.7 72.4 108.6

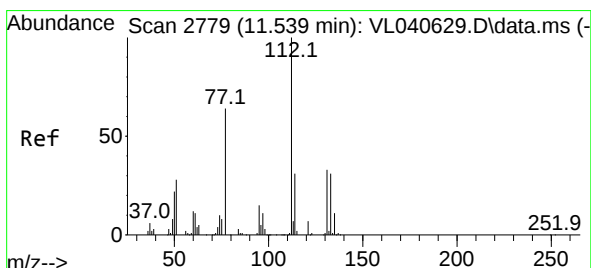
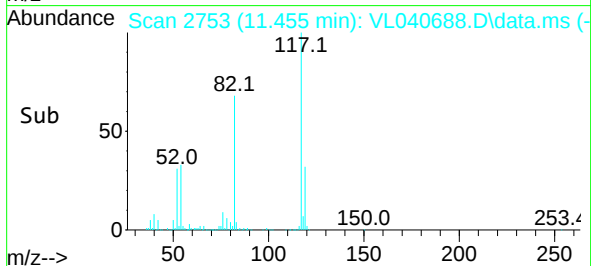
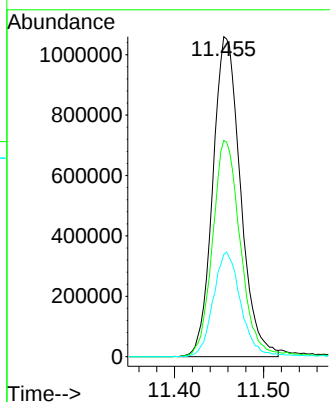
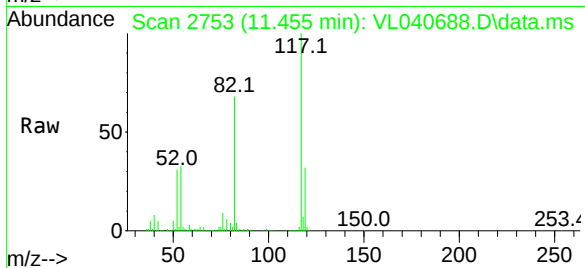




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

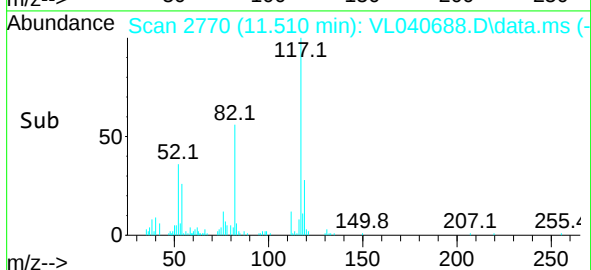
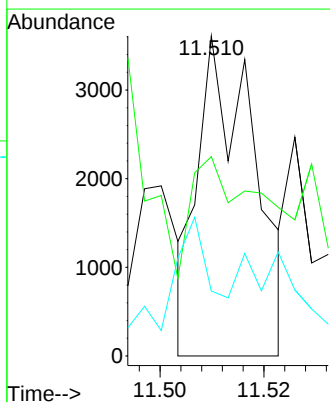
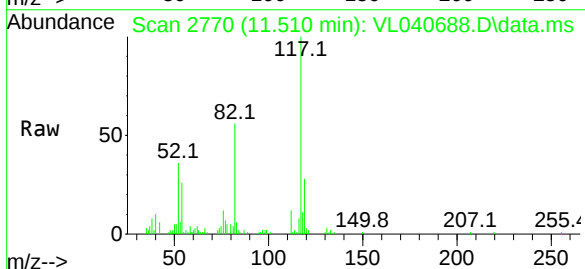
Instrument :
MSVOA_L
ClientSampleId :

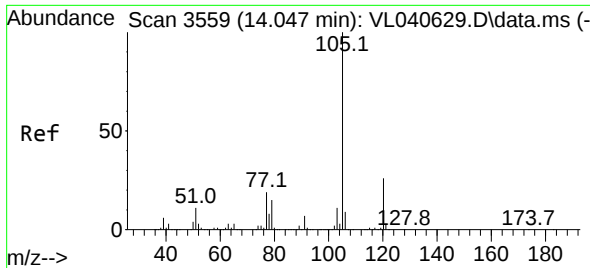
Tgt Ion:117 Resp: 2283854
Ion Ratio Lower Upper
117 100
82 69.2 51.4 77.0
119 32.9 24.7 37.1



#57
Chlorobenzene
Concen: 0.016 ppbv
RT: 11.510 min Scan# 2770
Delta R.T. -0.013 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion:112 Resp: 2689
Ion Ratio Lower Upper
112 100
77 49.7 50.8 76.2#
114 0.0 28.2 34.4#

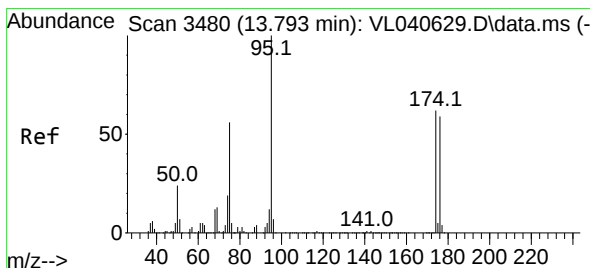
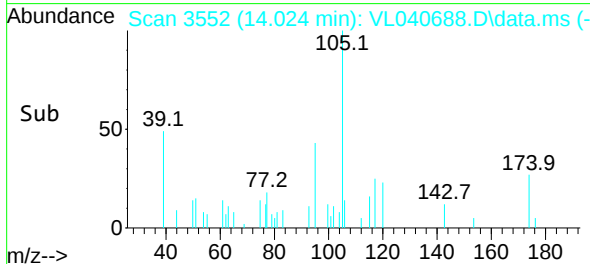
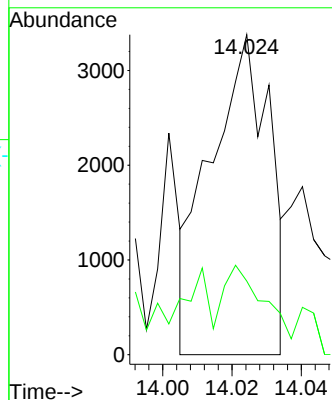
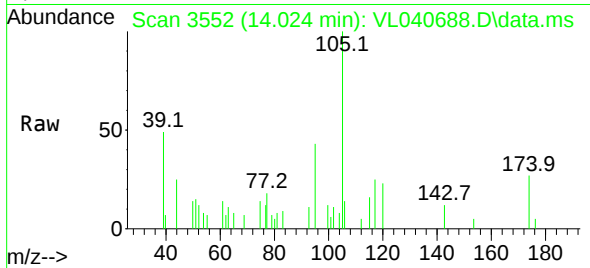




#62
Isopropylbenzene
Concen: 0.011 ppbv
RT: 14.024 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 4009
Ion Ratio Lower Upper
105 100
120 44.6 20.2 30.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.003 min
Lab File: VL040688.D
Acq: 14 Sep 2023 17:04

Tgt Ion: 95 Resp: 1782289
Ion Ratio Lower Upper
95 100
174 63.0 48.9 73.3
175 4.4 3.5 5.3

