

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040687.D
 Acq On : 14 Sep 2023 16:24
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 15 05:51:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	1098980	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2964691	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2455648	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1920115	10.120	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
3) Chlorodifluoromethane	2.671	51	19080	0.107	ppbv	99
4) Chloromethane	2.806	50	4942	0.072	ppbv	97
5) Vinyl Chloride	2.912	62	5327	0.066	ppbv #	79
6) Bromomethane	3.115	94	3743	0.096	ppbv #	66
7) Chloroethane	3.189	64	699	0.025	ppbv #	79
8) Dichlorotetrafluoroethane	2.848	85	21546	0.108	ppbv	99
9) Propene	2.694	41	7967	0.154	ppbv	89
11) Trichlorofluoromethane	3.555	101	20194	0.095	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.057	101	14876	0.098	ppbv	96
14) Bromoethene	3.356	108	4254	0.067	ppbv #	68
15) Acetone	3.488	43	24241	0.167	ppbv	91
16) 1,3-Butadiene	2.973	39	2357	0.037	ppbv #	9
18) 1,1-Dichloroethene	3.874	96	4508	0.067	ppbv #	34
20) Methylene Chloride	3.922	84	10081	0.129	ppbv #	91
21) Allyl Chloride	3.986	41	7650	0.086	ppbv	91
22) trans-1,2-Dichloroethene	4.433	96	4961	0.074	ppbv #	55
23) Vinyl Acetate	4.610	43	2088	0.014	ppbv #	13
24) 1,1-Dichloroethane	4.558	63	13753	0.098	ppbv #	91
26) Hexane	5.202	57	7559	0.068	ppbv #	54
27) Carbon Disulfide	4.115	76	6905	0.045	ppbv #	1
28) Methyl tert-Butyl Ether	4.600	73	7562	0.080	ppbv #	88
29) Chloroform	5.272	83	8230	0.043	ppbv	96
30) Cyclohexane	6.591	84	2560	0.031	ppbv #	1
31) cis-1,2-Dichloroethene	5.070	61	7184	0.070	ppbv #	70
32) 1,1,1-Trichloroethane	5.999	97	9525	0.049	ppbv #	25
35) Carbon Tetrachloride	6.481	117	11050	0.054	ppbv	85
36) Benzene	6.359	78	4253	0.019	ppbv #	76
37) 1,2-Dichloroethane	5.793	62	8349	0.056	ppbv #	84
38) Trichloroethene	7.285	130	2161	0.026	ppbv #	25
39) 1,2-Dichloropropane	6.642	63	762422	9.022	ppbv #	24
42) Bromodichloromethane	7.243	83	6297	0.031	ppbv	95
43) Methyl Methacrylate	7.465	69	1380	0.017	ppbv #	1
44) 2,2,4-Trimethylpentane	7.317	57	4484	0.013	ppbv #	1
46) cis-1,3-Dichloropropene	8.131	75	2016	0.026	ppbv #	71
47) 1,1,2-Trichloroethane	8.893	97	1810	0.019	ppbv #	35
49) Bromoform	12.401	173	3869	0.029	ppbv #	8
52) Tetrachloroethene	10.600	164	1745	0.024	ppbv #	19
53) Toluene	9.217	91	4456	0.019	ppbv #	1
54) 1,2-Dibromoethane	9.989	107	2591	0.021	ppbv	81
56) 1,1,1,2-Tetrachloroethane	11.510	131	5618	0.048	ppbv #	10
57) Chlorobenzene	11.520	112	5294	0.028	ppbv #	66
58) Ethyl Benzene	12.073	91	3034	0.011	ppbv #	46
59) m/p-Xylene	12.365	91	5084	0.019	ppbv #	1

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

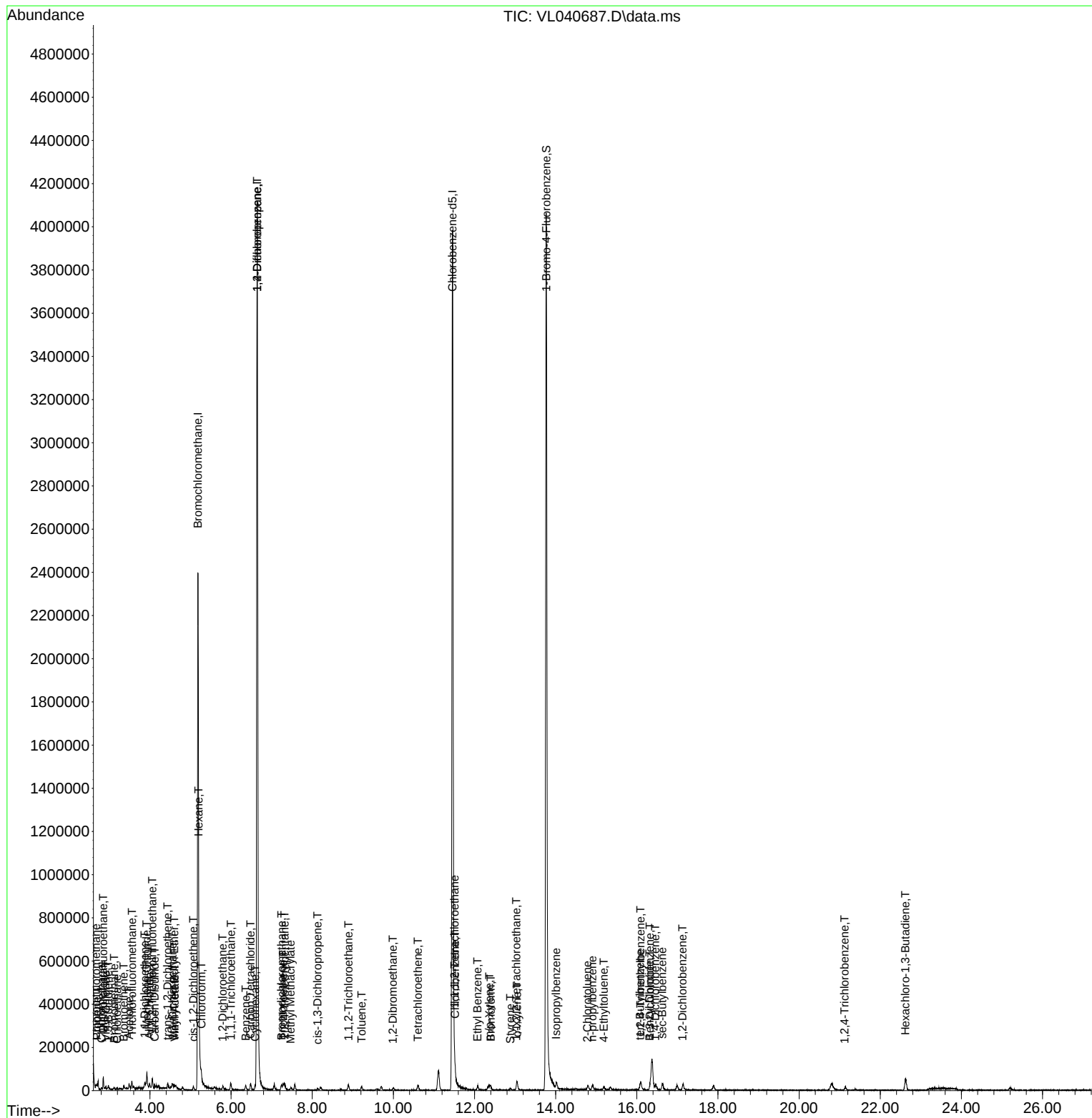
60) o-Xylene	13.050	91	7103	0.028	ppbv	#	61
61) Styrene	12.886	104	1190	0.011	ppbv	#	1
62) Isopropylbenzene	14.011	105	6769	0.018	ppbv	#	50
63) 1,1,2,2-Tetrachloroethane	13.031	83	4038	0.021	ppbv	#	24
64) n-propylbenzene	14.902	120	1089	0.012	ppbv	#	1
65) tert-Butylbenzene	16.079	119	4097	0.012	ppbv	#	1
66) Benzyl Chloride	16.317	91	421	0.011	ppbv	#	66
67) sec-Butylbenzene	16.626	105	9375	0.019	ppbv	#	60
71) 2-Chlorotoluene	14.783	91	3045	0.011	ppbv	#	45
72) 4-Ethyltoluene	15.185	105	3523	0.013	ppbv	#	31
74) 1,2,4-Trimethylbenzene	16.092	105	6846	0.022	ppbv	#	60
75) 1,3-Dichlorobenzene	16.320	146	1794	0.010	ppbv	#	23
76) 1,4-Dichlorobenzene	16.455	146	1825	0.011	ppbv	#	1
77) 1,2-Dichlorobenzene	17.127	146	5262	0.030	ppbv	#	22
78) Hexachloro-1,3-Butadiene	22.619	225	4484	0.034	ppbv	#	1
81) 1,2,4-Trichlorobenzene	21.124	180	1355	0.011	ppbv	#	11

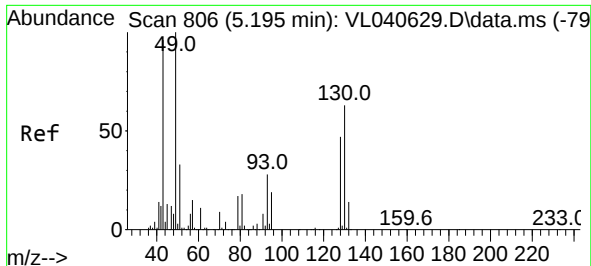
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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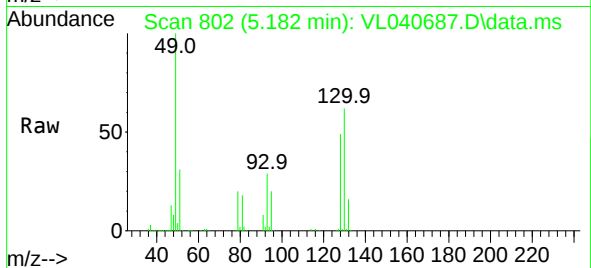
Quant Time: Sep 15 05:51:36 2023
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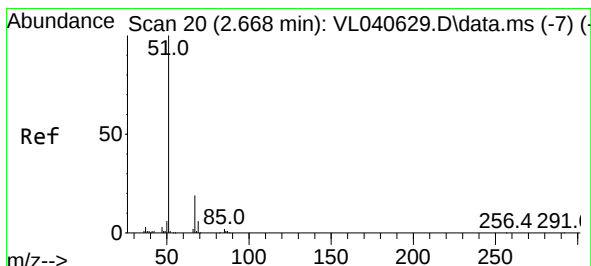
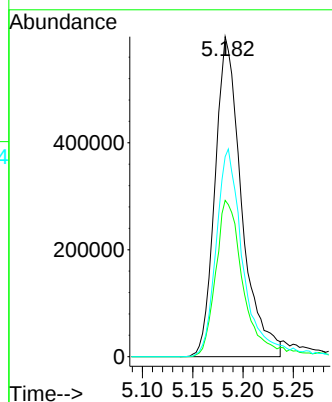
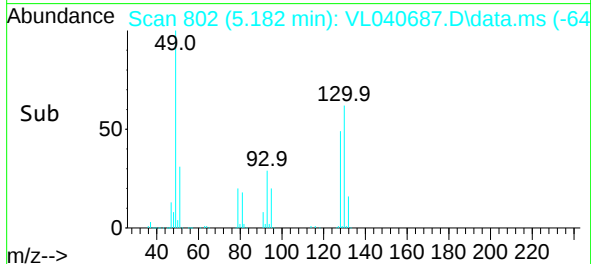


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :

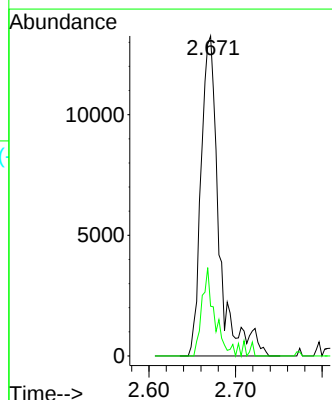
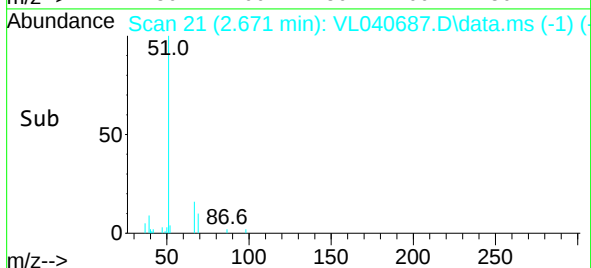
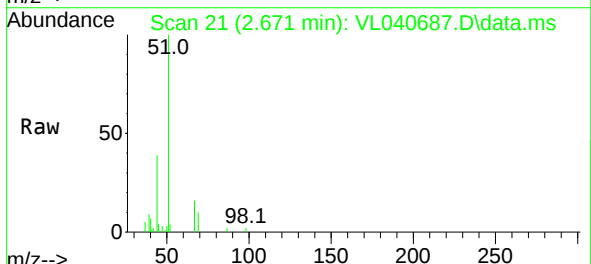


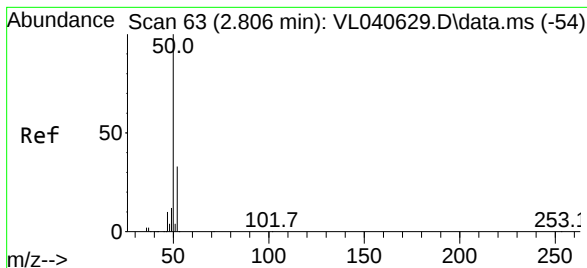
Tgt Ion: 49 Resp: 1098980
Ion Ratio Lower Upper
49 100
128 53.0 25.4 76.0
130 68.6 32.3 96.8



#3
Chlorodifluoromethane
Concen: 0.107 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 51 Resp: 19080
Ion Ratio Lower Upper
51 100
67 21.4 16.7 25.1

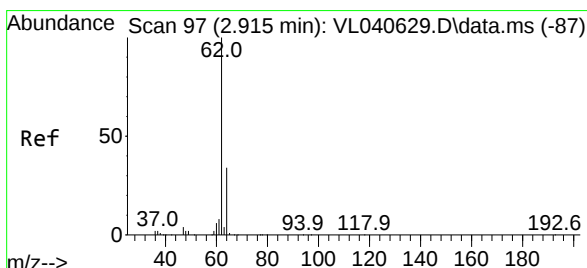
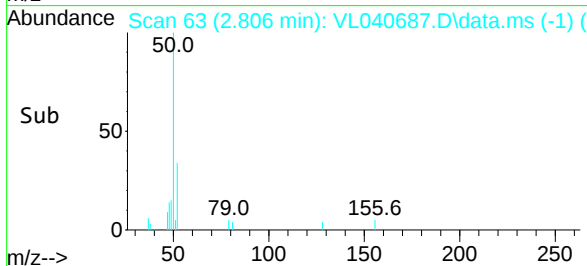
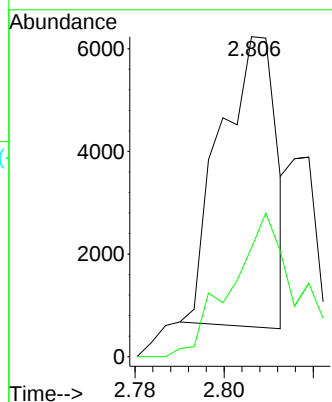
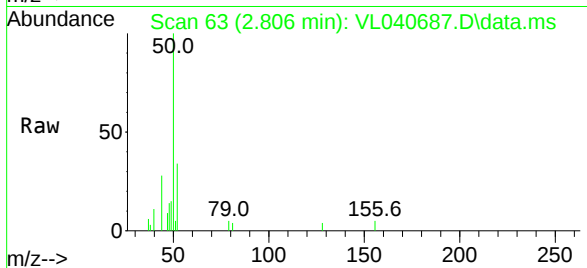




#4
Chloromethane
Concen: 0.072 ppbv
RT: 2.806 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

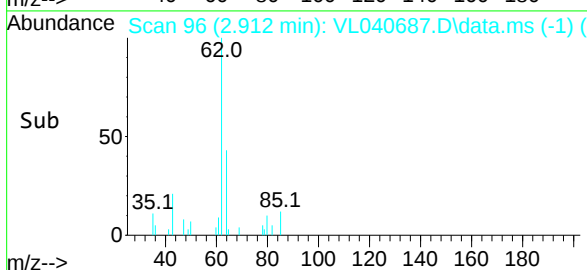
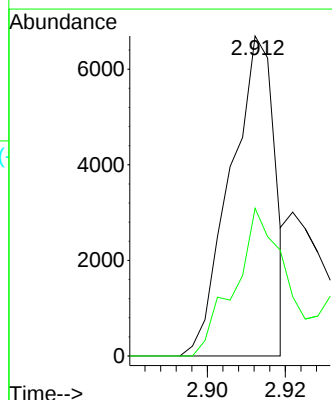
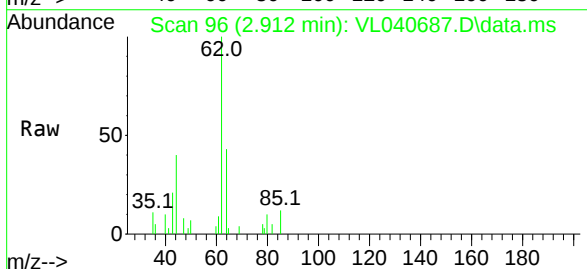
Instrument :
MSVOA_L
ClientSampleId :

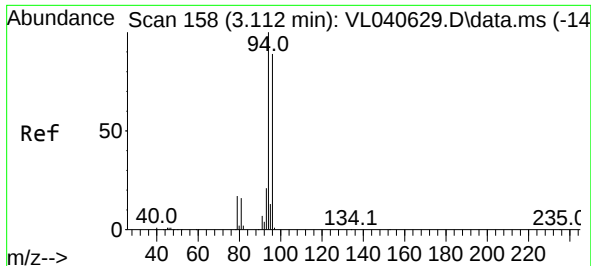
Tgt Ion: 50 Resp: 4942
Ion Ratio Lower Upper
50 100
52 35.3 27.1 40.7



#5
Vinyl Chloride
Concen: 0.066 ppbv
RT: 2.912 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 62 Resp: 5327
Ion Ratio Lower Upper
62 100
64 46.2 27.2 40.8#

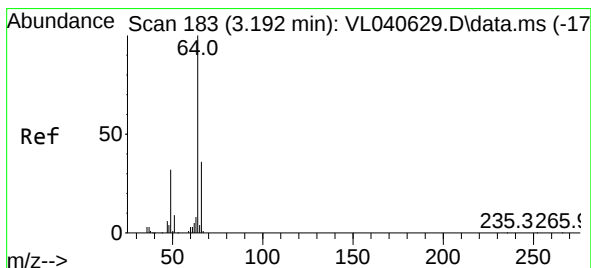
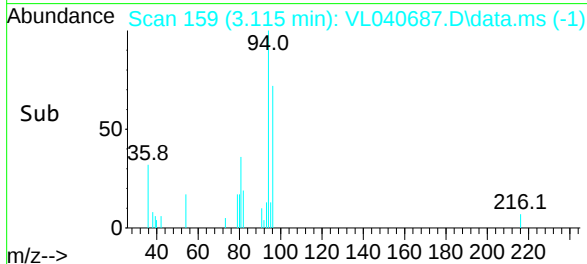
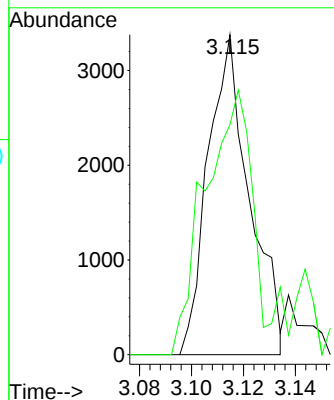
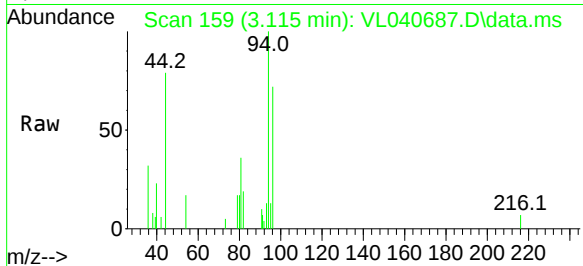




#6
Bromomethane
Concen: 0.096 ppbv
RT: 3.115 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

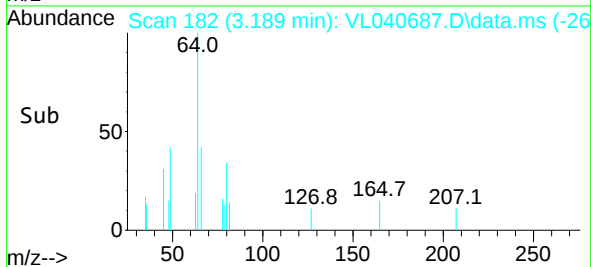
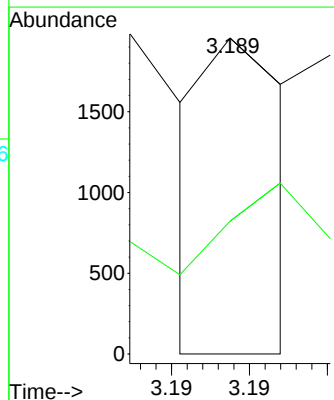
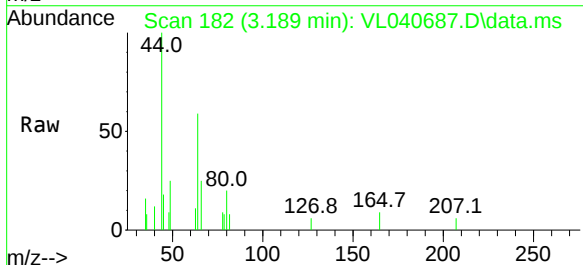
Instrument :
MSVOA_L
ClientSampleId :

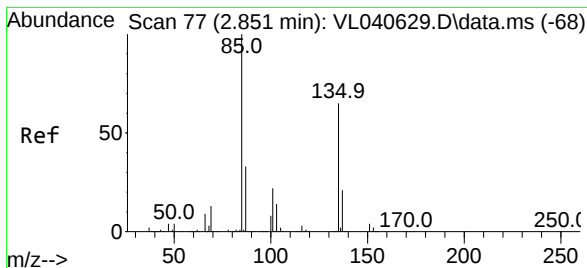
Tgt Ion: 94 Resp: 3743
Ion Ratio Lower Upper
94 100
96 60.1 74.4 111.6#



#7
Chloroethane
Concen: 0.025 ppbv
RT: 3.189 min Scan# 182
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 64 Resp: 699
Ion Ratio Lower Upper
64 100
66 42.0 24.5 36.7#

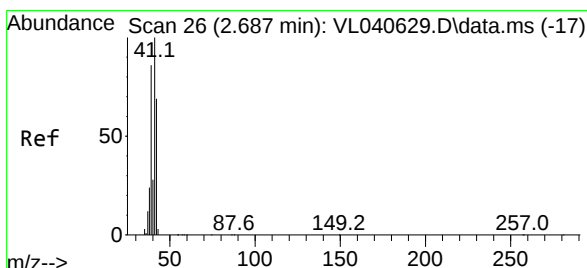
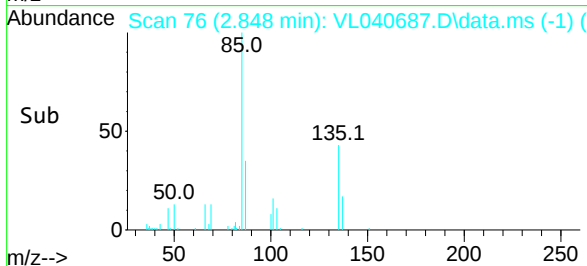
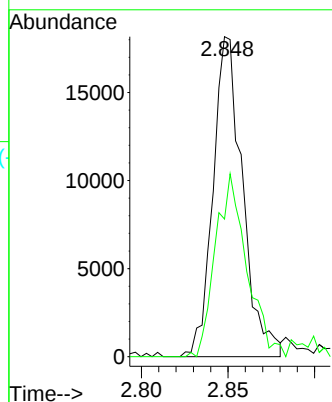
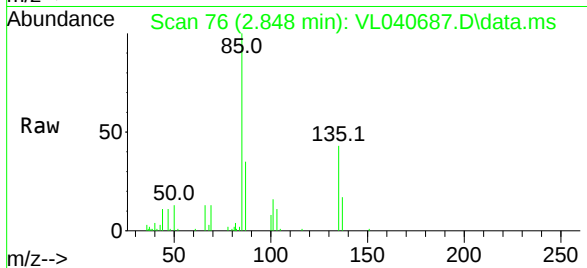




#8
 Dichlorotetrafluoroethane
 Concen: 0.108 ppbv
 RT: 2.848 min Scan# 77
 Delta R.T. 0.000 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

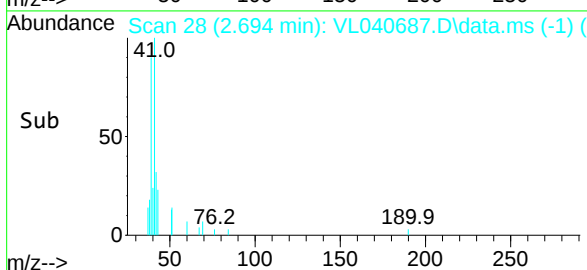
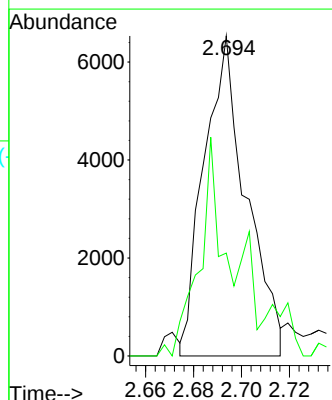
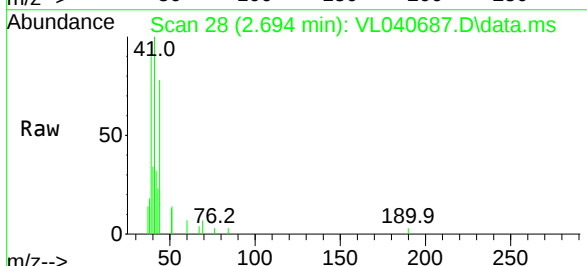
Instrument :
 MSVOA_L
 ClientSampleId :

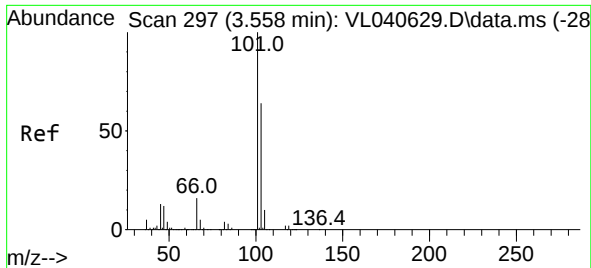
Tgt Ion: 85 Resp: 21546
 Ion Ratio Lower Upper
 85 100
 135 65.8 53.4 80.2



#9
 Propene
 Concen: 0.154 ppbv
 RT: 2.694 min Scan# 28
 Delta R.T. 0.010 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

Tgt Ion: 41 Resp: 7967
 Ion Ratio Lower Upper
 41 100
 42 61.6 56.7 85.1

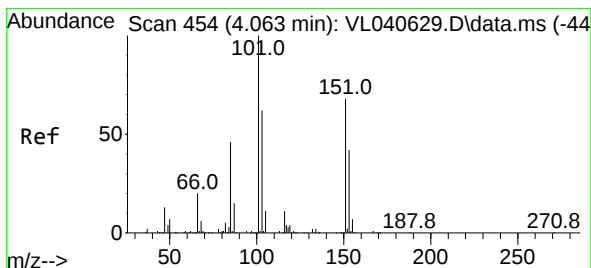
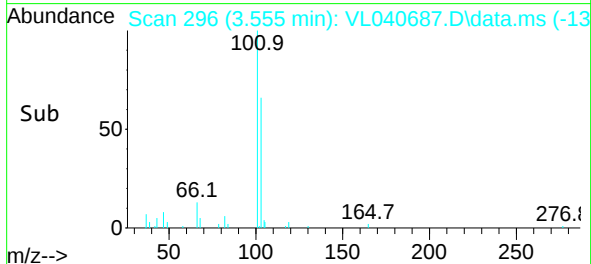
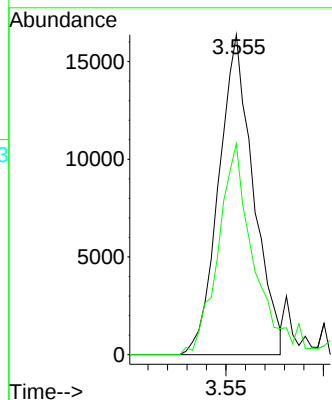
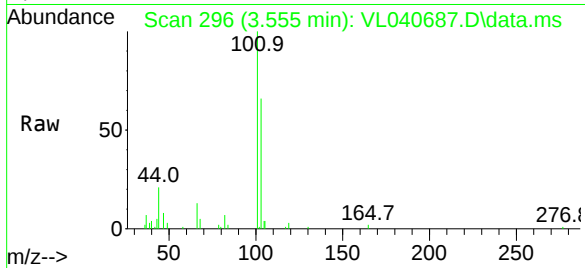




#11
 Trichlorofluoromethane
 Concen: 0.095 ppbv
 RT: 3.555 min Scan# 297
 Delta R.T. 0.003 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

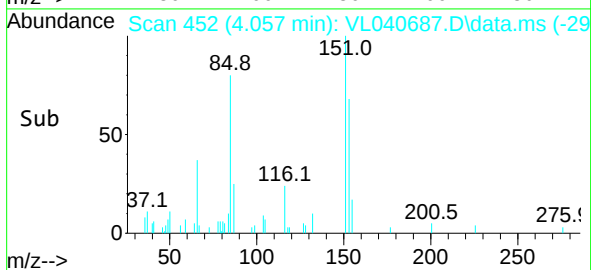
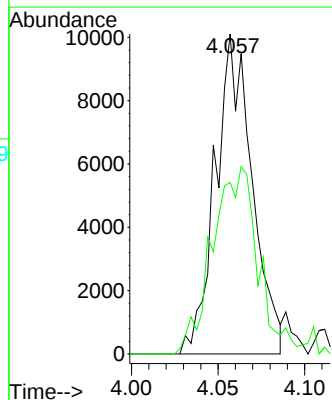
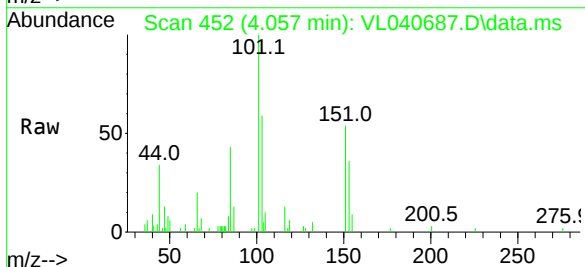
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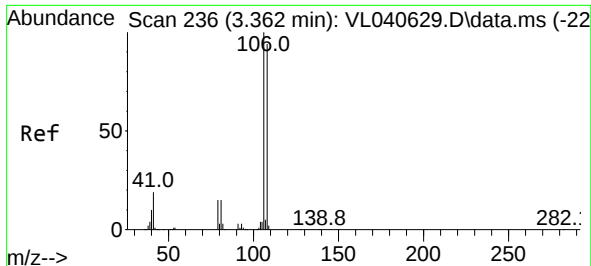
Tgt Ion:101 Resp: 20194
 Ion Ratio Lower Upper
 101 100
 103 66.0 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.098 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. 0.000 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

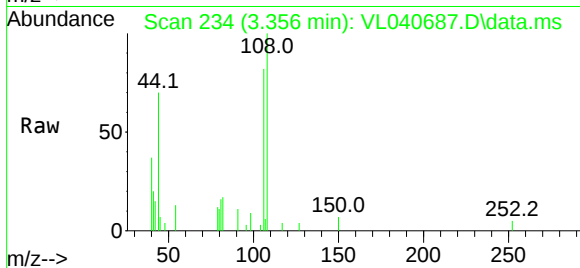
Tgt Ion:101 Resp: 14876
 Ion Ratio Lower Upper
 101 100
 151 74.5 56.8 85.2



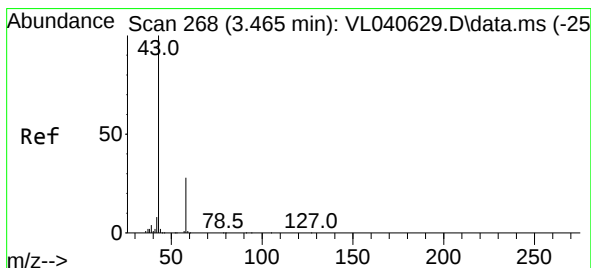
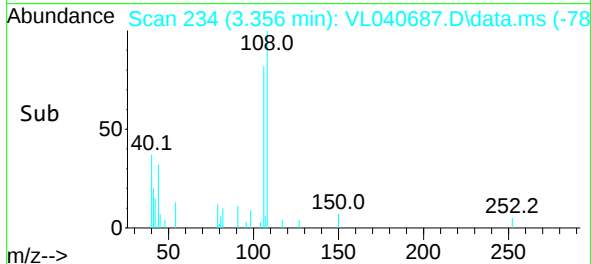
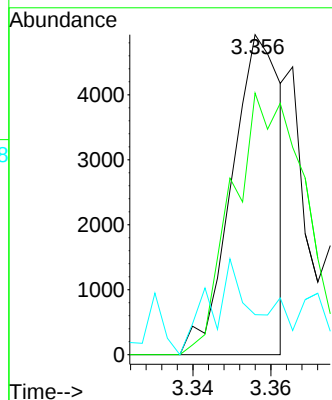


#14
Bromoethene
Concen: 0.067 ppbv
RT: 3.356 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040687.D
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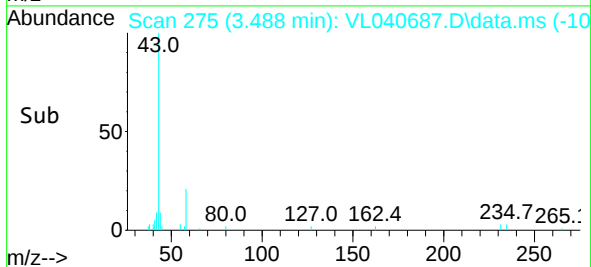
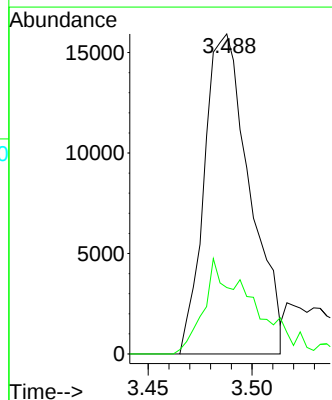
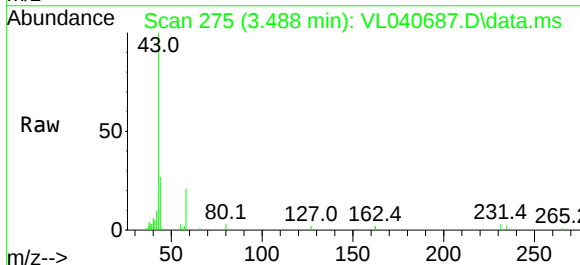


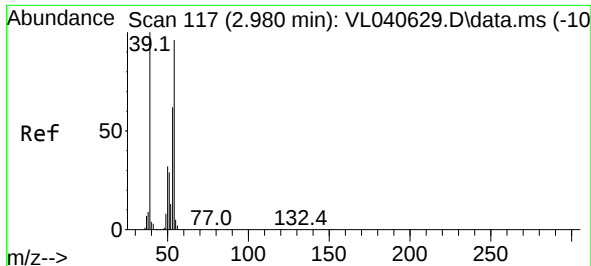
Tgt Ion:108 Resp: 4254
Ion Ratio Lower Upper
108 100
106 133.5 86.0 129.0#
79 51.8 15.6 23.4#



#15
Acetone
Concen: 0.167 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.032 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 43 Resp: 24241
Ion Ratio Lower Upper
43 100
58 33.2 22.6 34.0

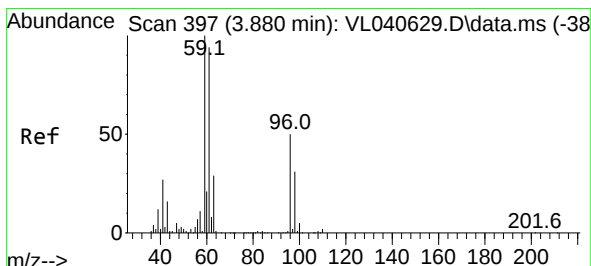
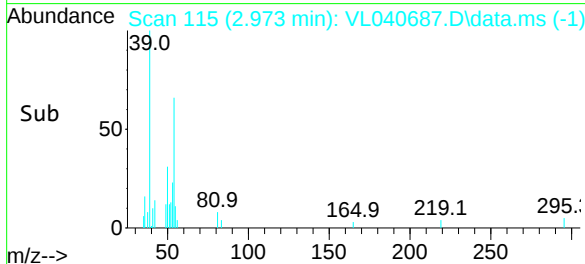
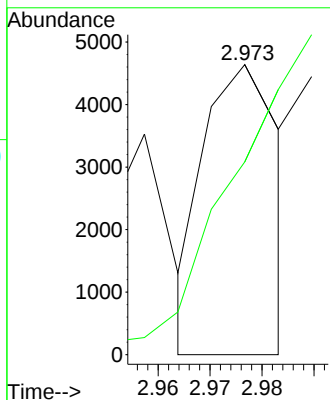
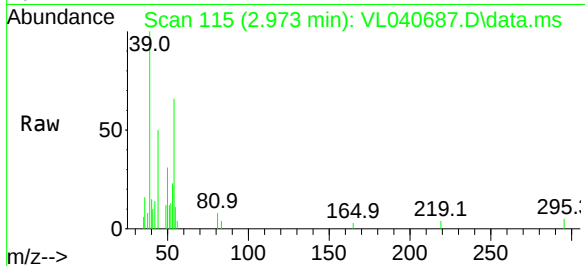




#16
1,3-Butadiene
Concen: 0.037 ppbv
RT: 2.973 min Scan# 117
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

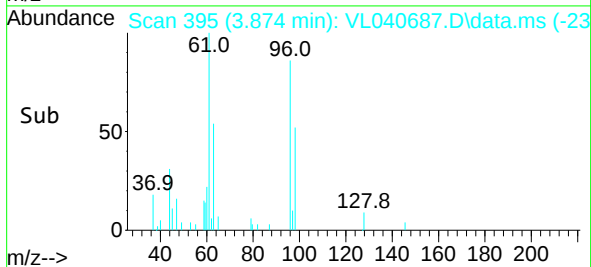
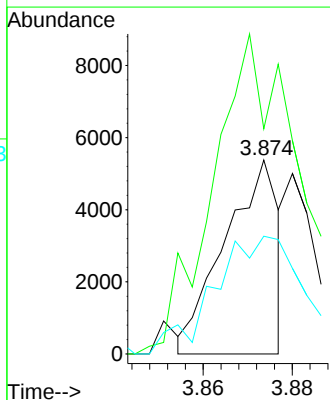
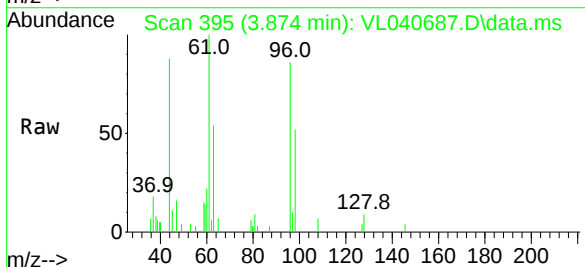
Instrument :
MSVOA_L
ClientSampleId :

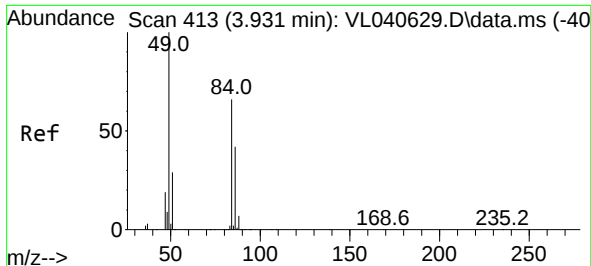
Tgt Ion: 39 Resp: 2357
Ion Ratio Lower Upper
39 100
54 0.0 64.8 97.2#



#18
1,1-Dichloroethene
Concen: 0.067 ppbv
RT: 3.874 min Scan# 395
Delta R.T. 0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

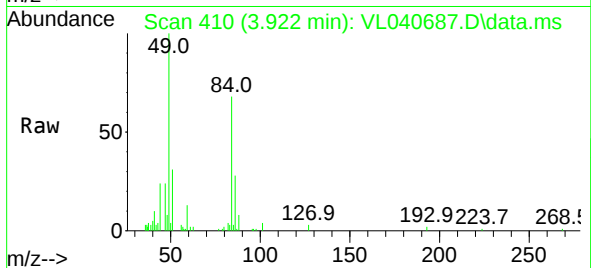
Tgt Ion: 96 Resp: 4508
Ion Ratio Lower Upper
96 100
61 70.4 153.6 230.4#
98 50.2 51.9 77.9#



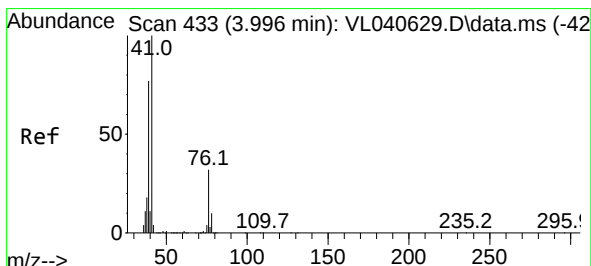
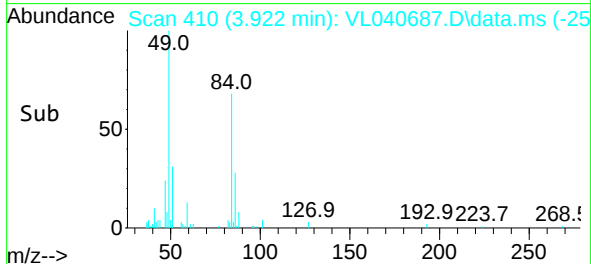
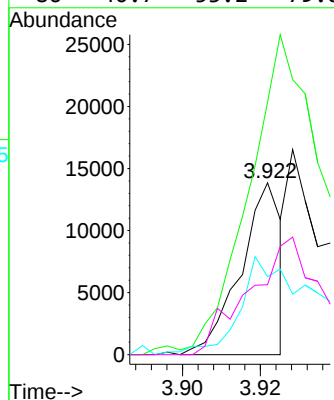


#20
Methylene Chloride
Concen: 0.129 ppbv
RT: 3.922 min Scan# 413
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :

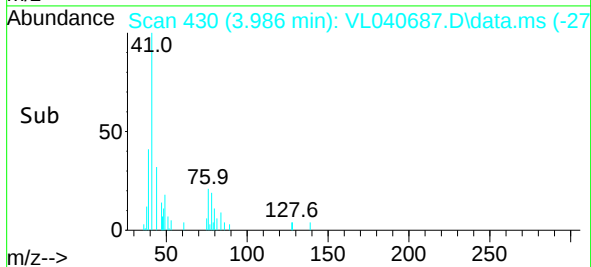
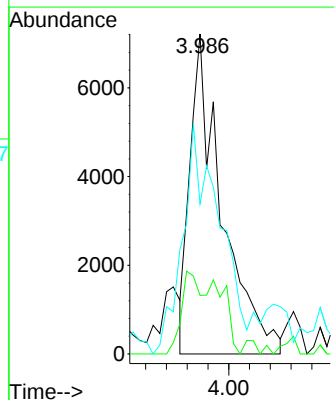
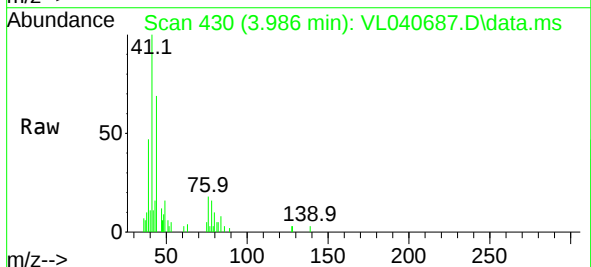


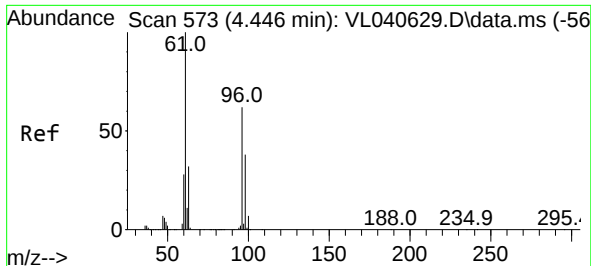
Tgt Ion:	84	Resp:	10081
Ion	Ratio	Lower	Upper
84	100		
49	144.2	114.4	171.6
51	43.7	35.5	53.3
86	40.7	53.2	79.8



#21
Allyl Chloride
Concen: 0.086 ppbv
RT: 3.986 min Scan# 430
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion:	41	Resp:	7650
Ion	Ratio	Lower	Upper
41	100		
76	31.6	26.6	40.0
39	91.7	65.0	97.4

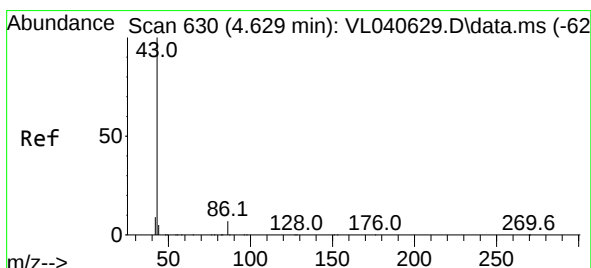
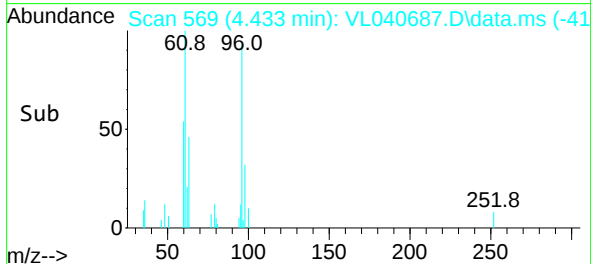
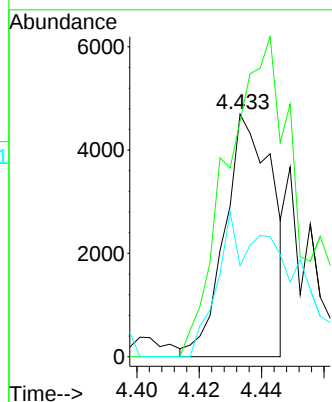
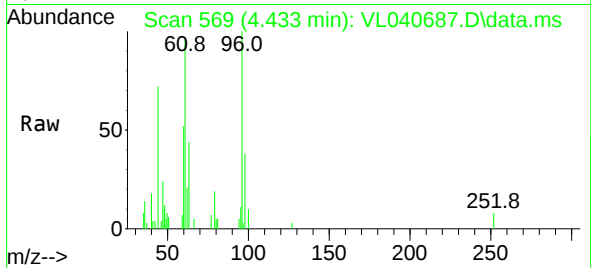




#22
trans-1,2-Dichloroethene
Concen: 0.074 ppbv
RT: 4.433 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

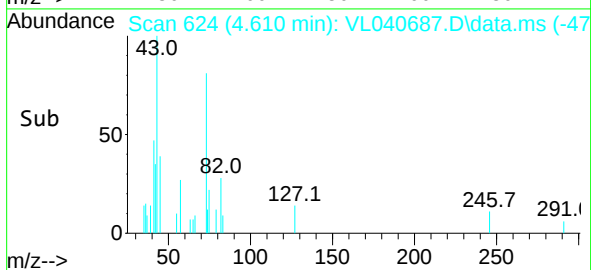
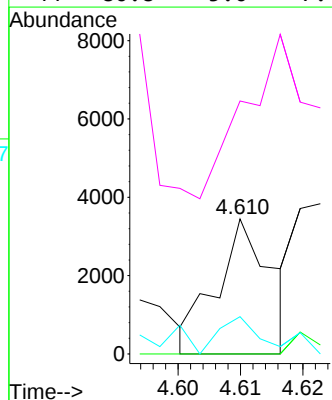
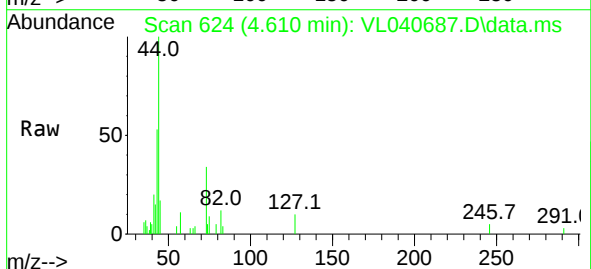
Instrument :
MSVOA_L
ClientSampleId :

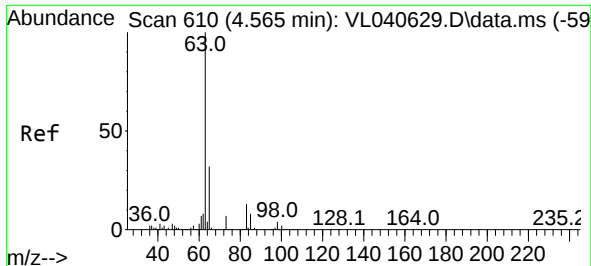
Tgt Ion: 96 Resp: 4961
Ion Ratio Lower Upper
96 100
61 96.9 129.9 194.9#
98 37.6 50.2 75.4#



#23
Vinyl Acetate
Concen: 0.014 ppbv
RT: 4.610 min Scan# 624
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

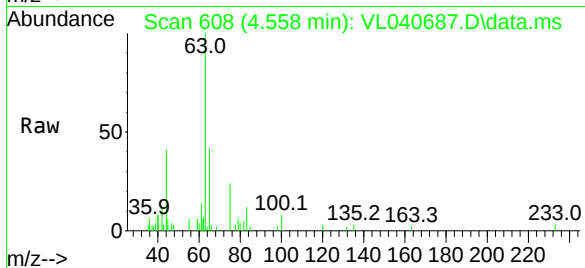
Tgt Ion: 43 Resp: 2088
Ion Ratio Lower Upper
43 100
86 0.0 5.6 8.4#
42 27.7 7.6 11.4#
44 80.8 5.0 7.4#



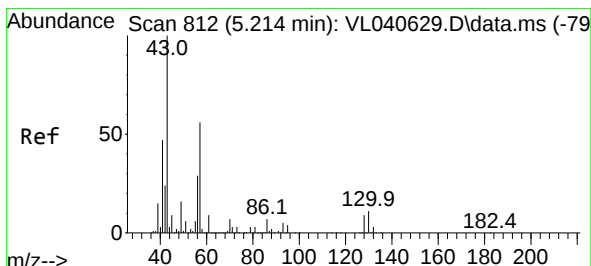
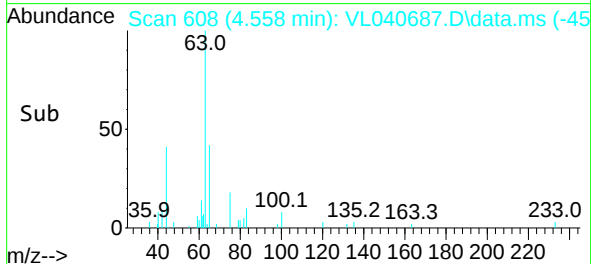
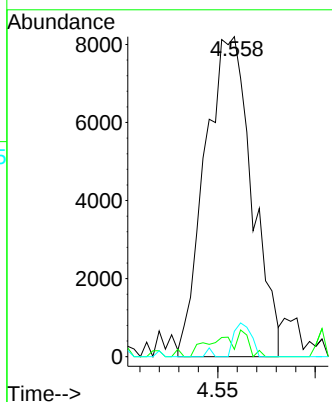


#24
1,1-Dichloroethane
Concen: 0.098 ppbv
RT: 4.558 min Scan# 610
Delta R.T. 0.007 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :

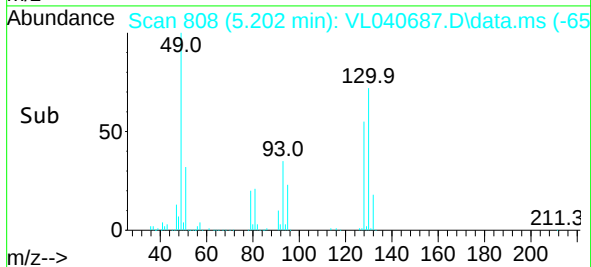
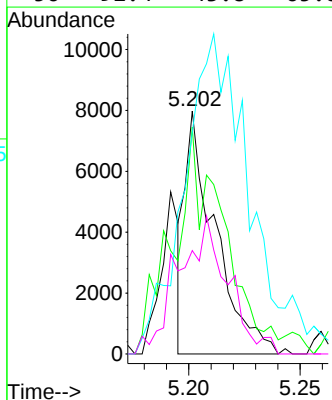
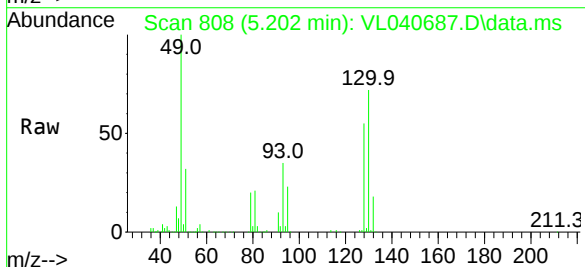


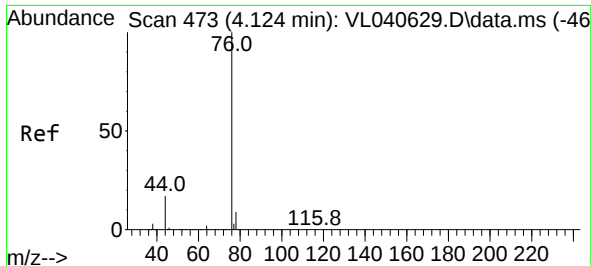
Tgt Ion: 63 Resp: 13753
Ion Ratio Lower Upper
63 100
98 2.4 1.8 5.5
100 8.1 1.2 3.6#



#26
Hexane
Concen: 0.068 ppbv
RT: 5.202 min Scan# 808
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 57 Resp: 7559
Ion Ratio Lower Upper
57 100
41 166.6 75.2 112.8#
43 285.6 185.6 278.4#
56 92.4 43.8 65.8#





#27

Carbon Disulfide

Concen: 0.045 ppbv

RT: 4.115 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

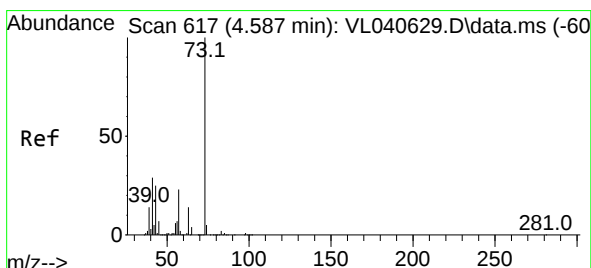
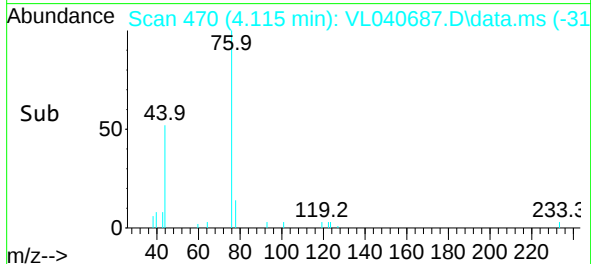
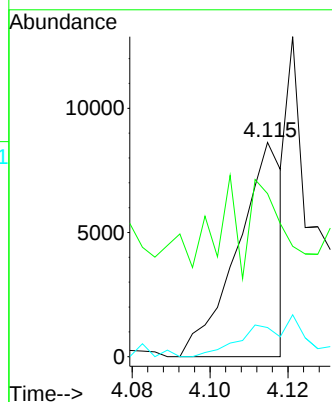
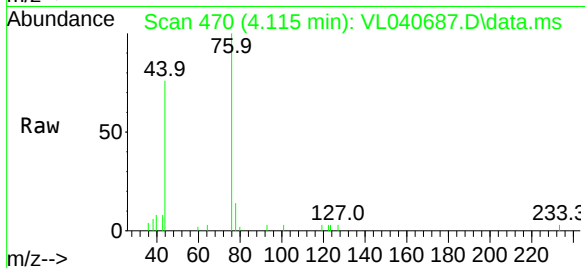
Tgt Ion: 76 Resp: 6905

Ion Ratio Lower Upper

76 100

44 82.2 14.5 21.7#

78 0.0 7.7 11.5#



#28

Methyl tert-Butyl Ether

Concen: 0.080 ppbv

RT: 4.600 min Scan# 621

Delta R.T. 0.023 min

Lab File: VL040687.D

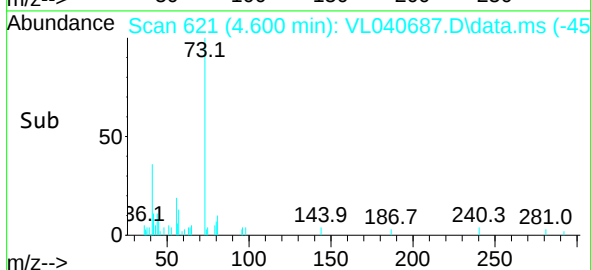
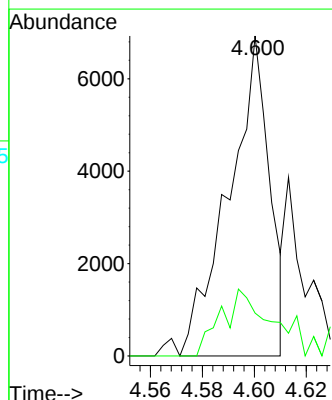
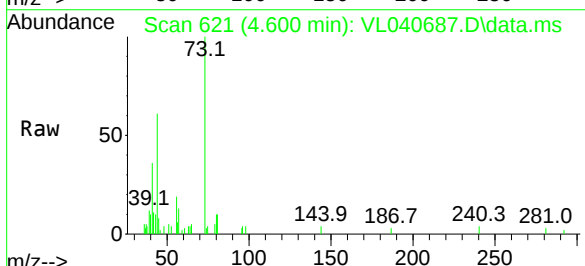
Acq: 14 Sep 2023 16:24

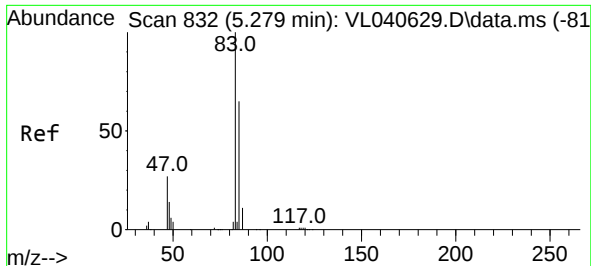
Tgt Ion: 73 Resp: 7562

Ion Ratio Lower Upper

73 100

57 29.1 18.8 28.2#





#29

Chloroform

Concen: 0.043 ppbv

RT: 5.272 min Scan# 81

Delta R.T. 0.007 min

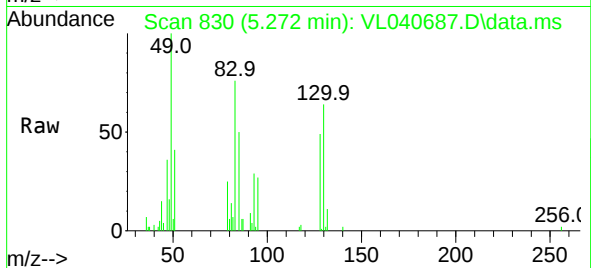
Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

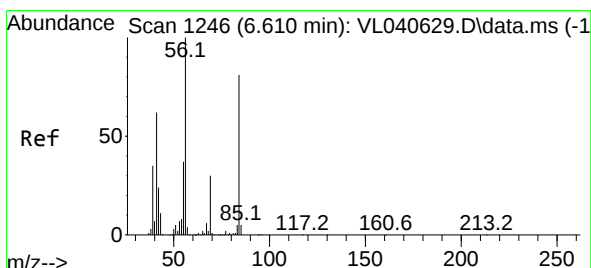
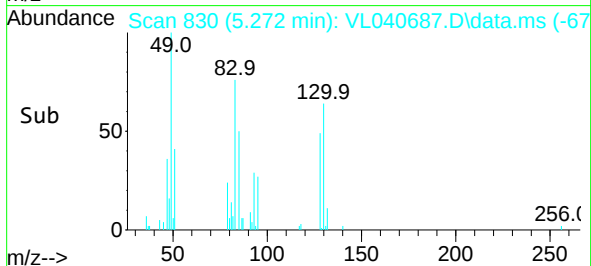
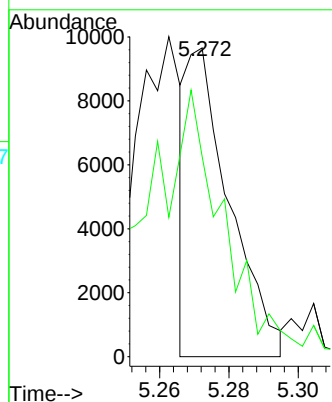


Tgt Ion: 83 Resp: 8230

Ion Ratio Lower Upper

83 100

85 61.6 51.8 77.8



#30

Cyclohexane

Concen: 0.031 ppbv

RT: 6.591 min Scan# 1240

Delta R.T. -0.003 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

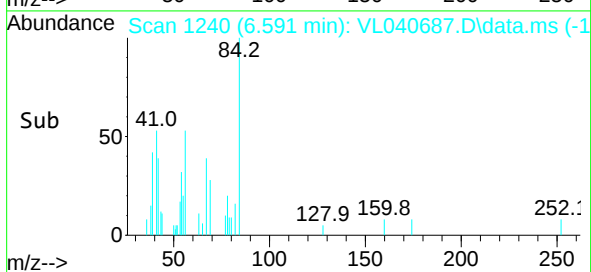
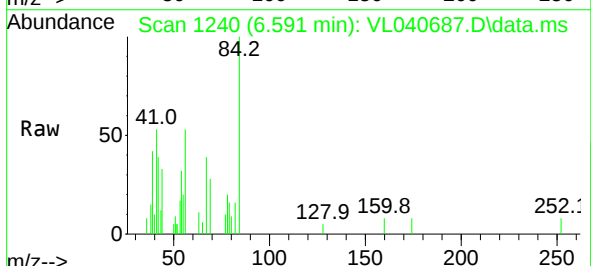
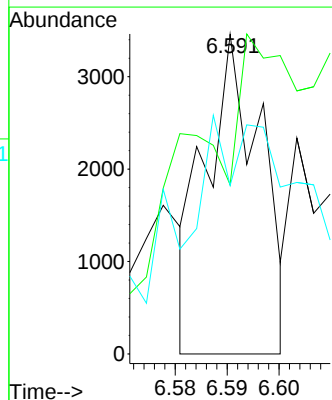
Tgt Ion: 84 Resp: 2560

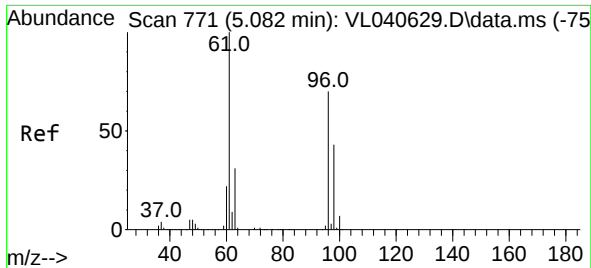
Ion Ratio Lower Upper

84 100

56 0.0 103.2 154.8#

41 236.4 65.5 98.3#

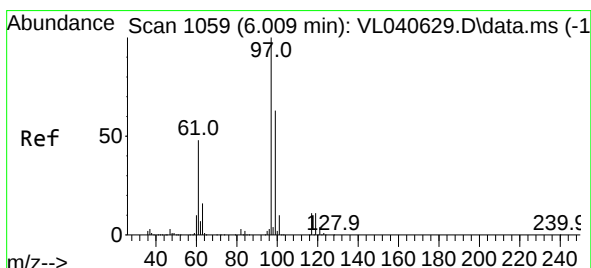
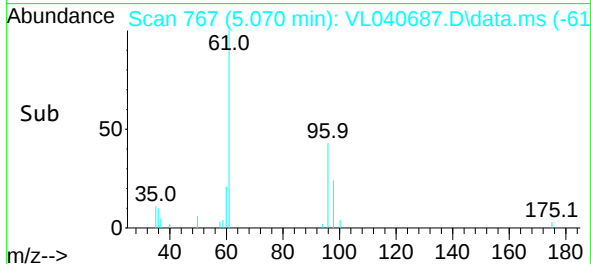
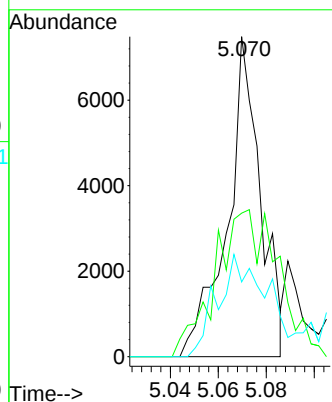
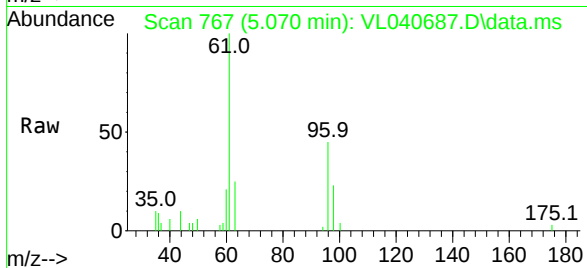




#31
 cis-1,2-Dichloroethene
 Concen: 0.070 ppbv
 RT: 5.070 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

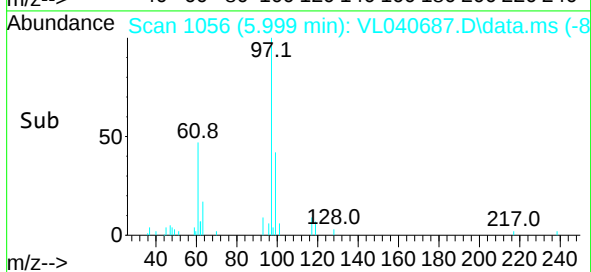
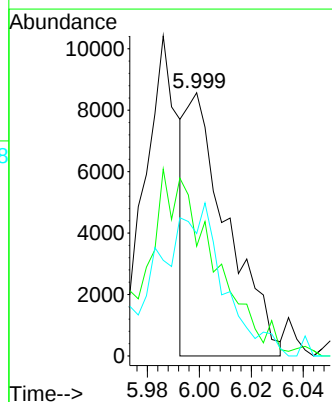
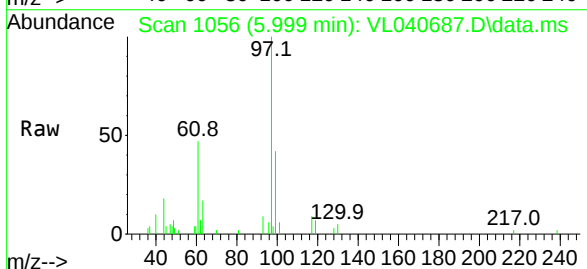
Instrument :
 MSVOA_L
 ClientSampleId :

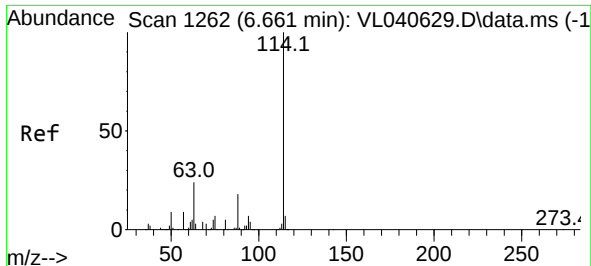
Tgt Ion: 61 Resp: 7184
 Ion Ratio Lower Upper
 61 100
 96 39.3 51.2 76.8#
 98 23.4 32.3 48.5#



#32
 1,1,1-Trichloroethane
 Concen: 0.049 ppbv
 RT: 5.999 min Scan# 1056
 Delta R.T. 0.003 min
 Lab File: VL040687.D
 Acq: 14 Sep 2023 16:24

Tgt Ion: 97 Resp: 9525
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.4 78.6#
 61 95.5 40.2 60.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

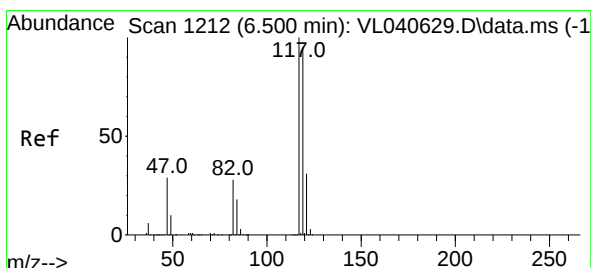
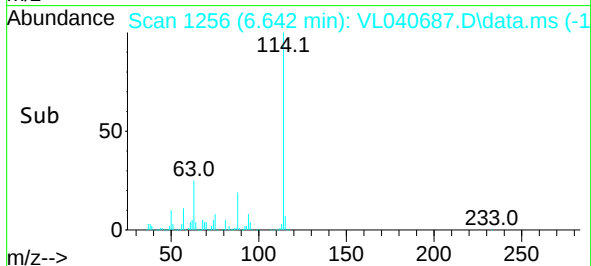
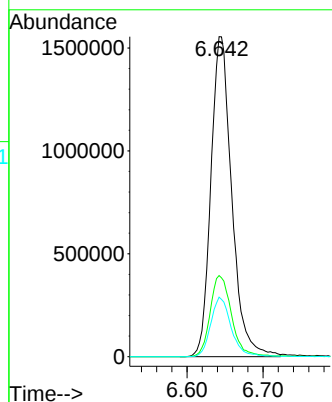
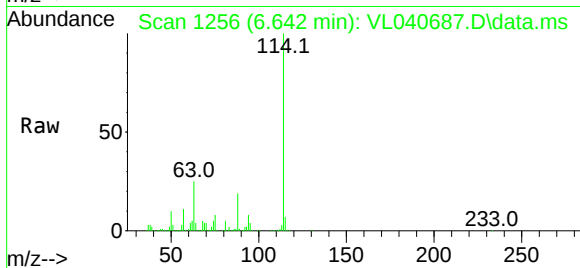
Tgt Ion:114 Resp: 2964691

Ion Ratio Lower Upper

114 100

63 26.1 21.1 31.7

88 18.3 14.5 21.7



#35

Carbon Tetrachloride

Concen: 0.054 ppbv

RT: 6.481 min Scan# 1206

Delta R.T. -0.003 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

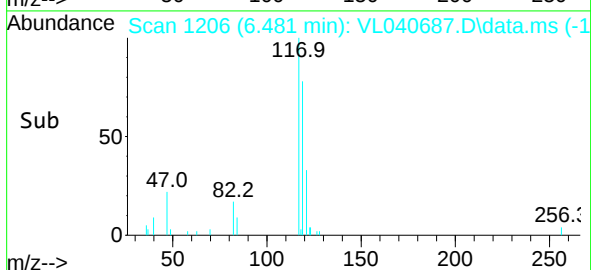
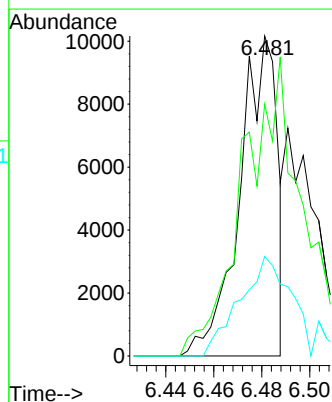
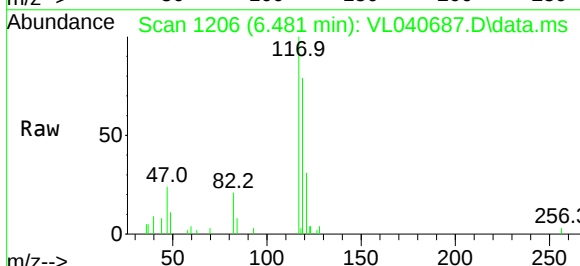
Tgt Ion:117 Resp: 11050

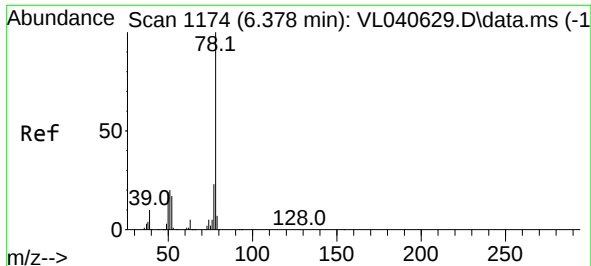
Ion Ratio Lower Upper

117 100

119 78.7 78.6 117.8

121 31.1 24.7 37.1

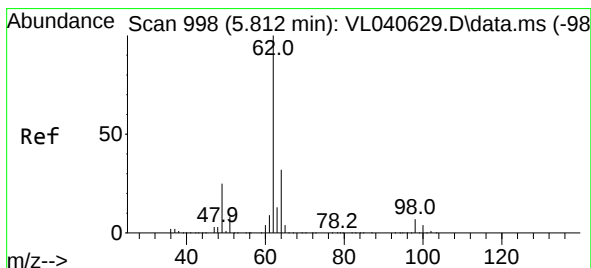
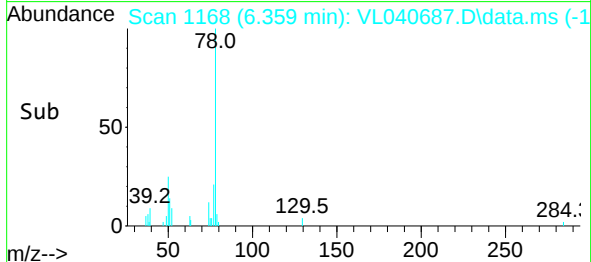
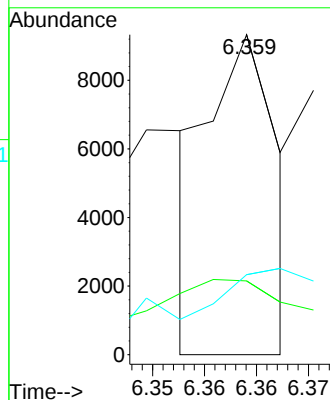
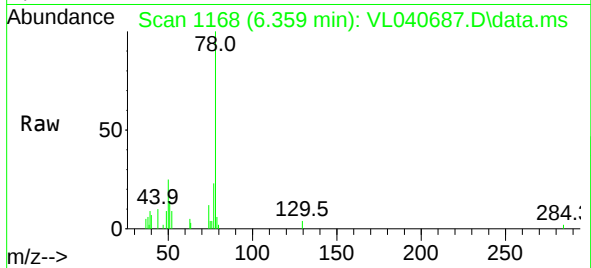




#36
Benzene
Concen: 0.019 ppbv
RT: 6.359 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

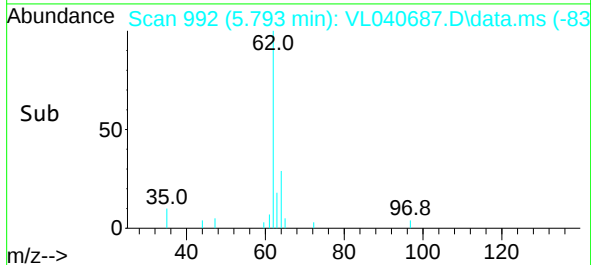
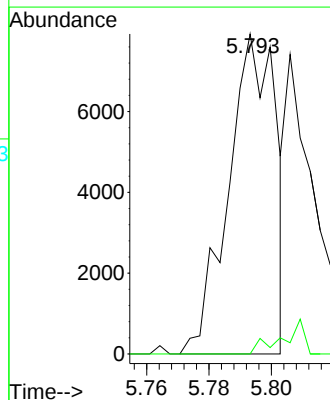
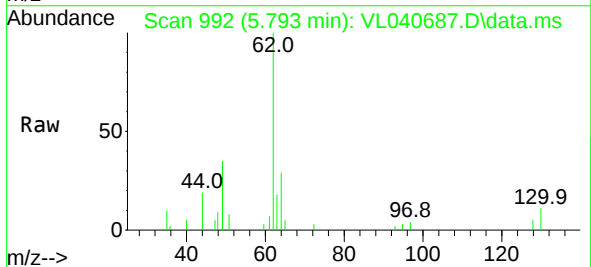
Instrument :
MSVOA_L
ClientSampleId :

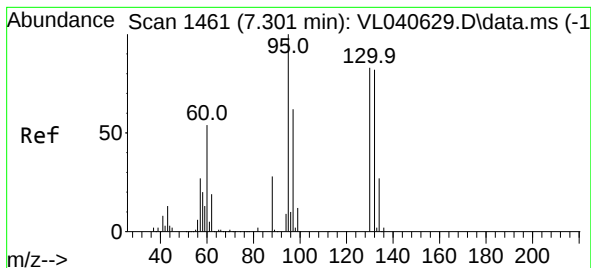
Tgt Ion: 78 Resp: 4253
Ion Ratio Lower Upper
78 100
77 20.4 17.9 26.9
50 0.0 17.3 25.9#



#37
1,2-Dichloroethane
Concen: 0.056 ppbv
RT: 5.793 min Scan# 992
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 62 Resp: 8349
Ion Ratio Lower Upper
62 100
98 0.0 4.2 6.4#





#38

Trichloroethene

Concen: 0.026 ppbv

RT: 7.285 min Scan# 1461

Delta R.T. 0.000 min

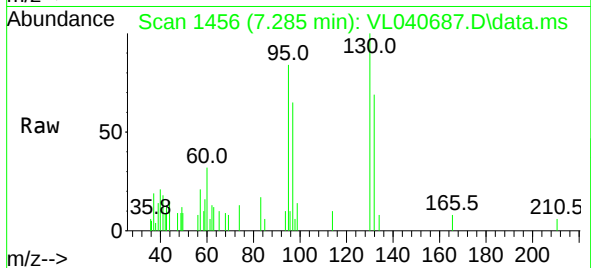
Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 2161

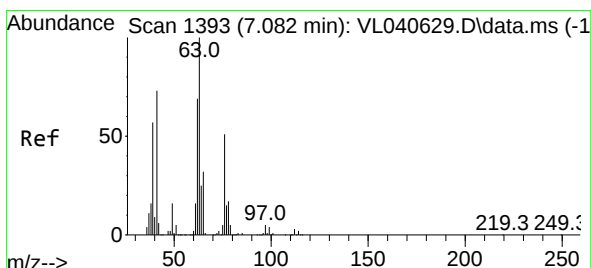
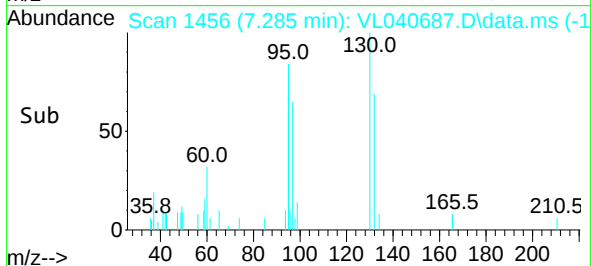
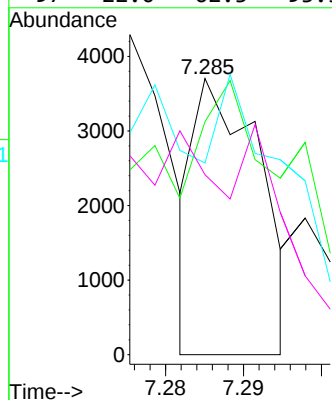
Ion Ratio Lower Upper

130 100

95 48.5 91.9 137.9#

132 0.0 77.3 115.9#

97 22.0 62.3 93.5#



#39

1,2-Dichloropropane

Concen: 9.022 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.424 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

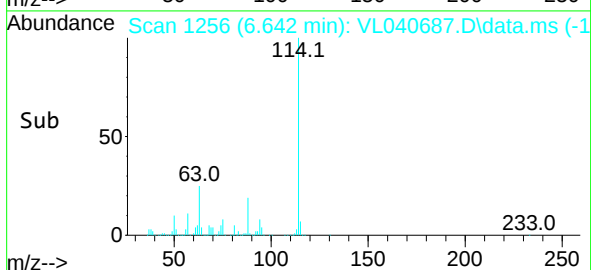
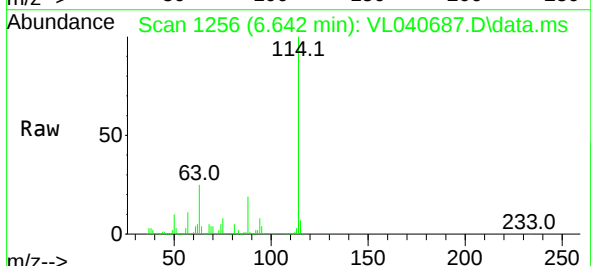
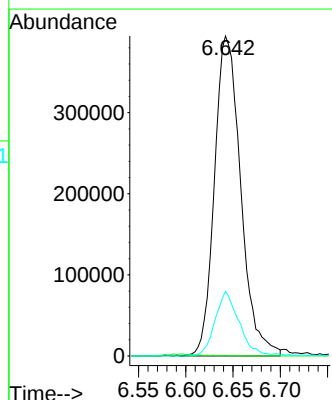
Tgt Ion: 63 Resp: 762422

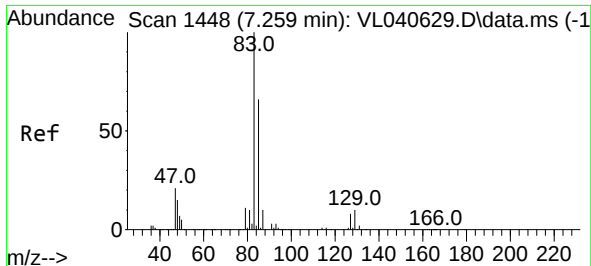
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 20.2 55.8 83.8#





#42

Bromodichloromethane

Concen: 0.031 ppbv

RT: 7.243 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

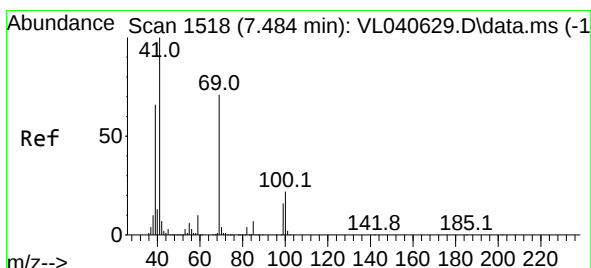
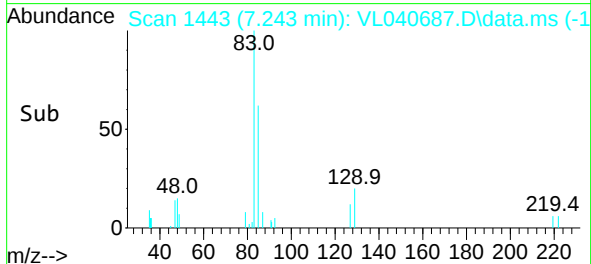
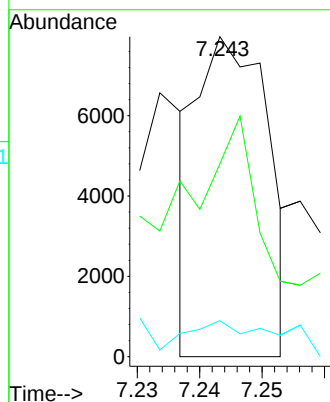
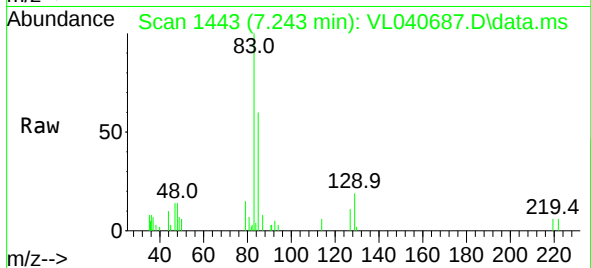
Tgt Ion: 83 Resp: 6297

Ion Ratio Lower Upper

83 100

85 68.2 51.2 76.8

127 8.5 6.2 9.4



#43

Methyl Methacrylate

Concen: 0.017 ppbv

RT: 7.465 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

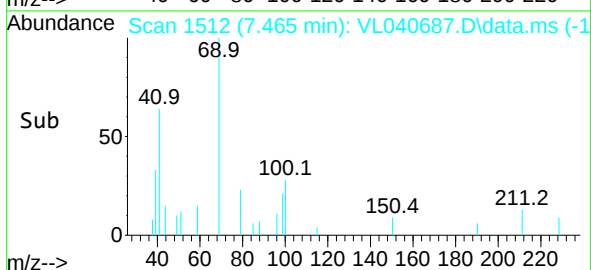
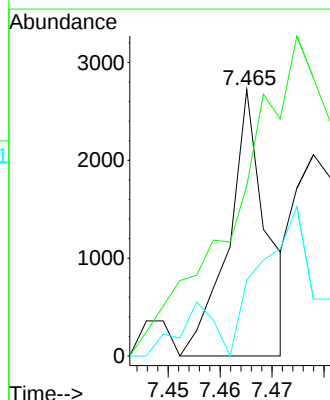
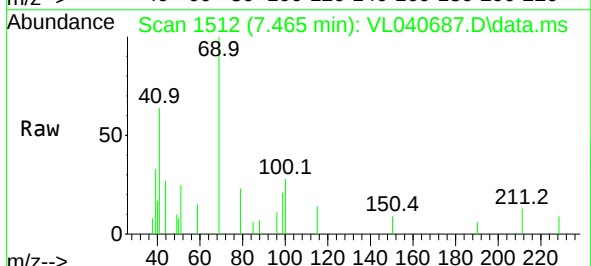
Tgt Ion: 69 Resp: 1380

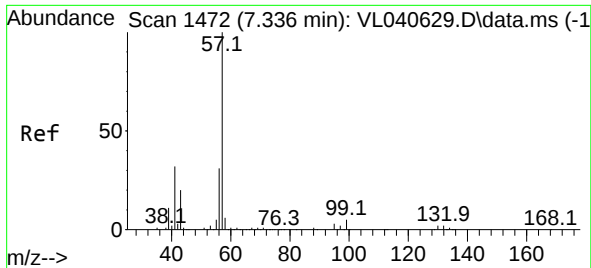
Ion Ratio Lower Upper

69 100

41 0.0 113.8 170.8#

100 0.0 25.4 38.0#





#44

2,2,4-Trimethylpentane

Concen: 0.013 ppbv

RT: 7.317 min Scan# 1472

Delta R.T. -0.003 min

Lab File: VL040687.D

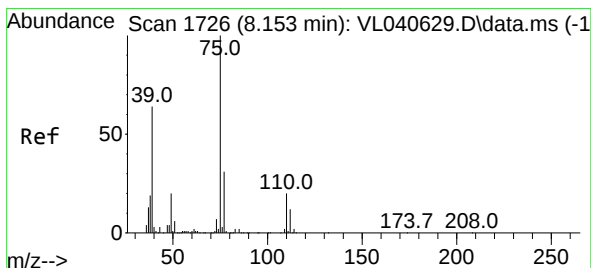
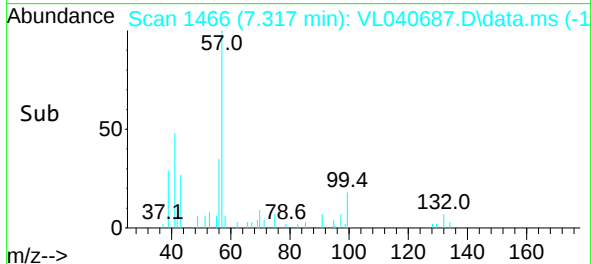
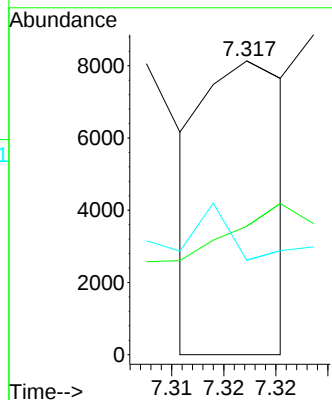
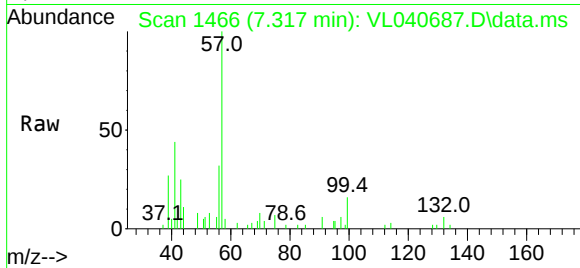
Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 57	Resp: 4484
Ion Ratio	Lower Upper
57	100
41	0.0 28.5 42.7#
56	193.6 25.4 38.2#



#46

cis-1,3-Dichloropropene

Concen: 0.026 ppbv

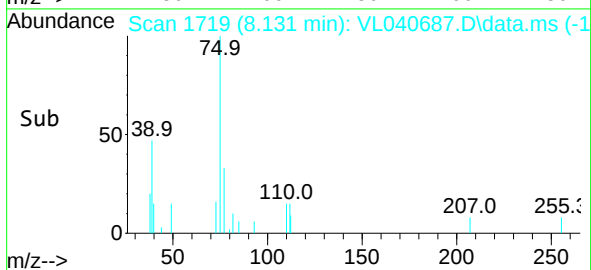
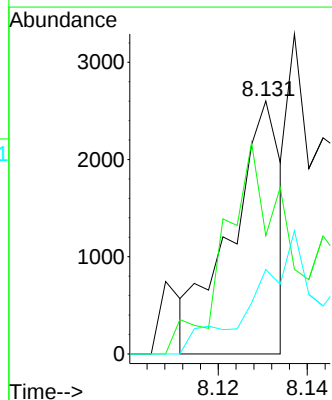
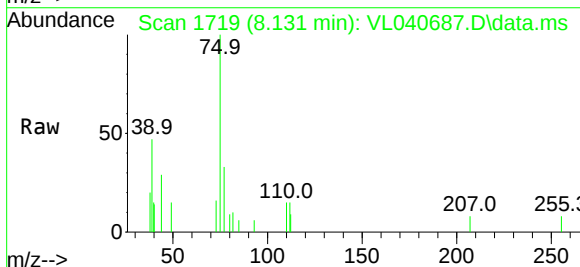
RT: 8.131 min Scan# 1719

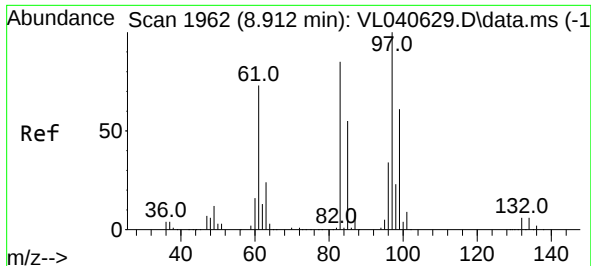
Delta R.T. -0.006 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Tgt Ion: 75	Resp: 2016
Ion Ratio	Lower Upper
75	100
39	42.4 54.0 81.0#
77	42.7 23.6 35.4#





#47

1,1,2-Trichloroethane

Concen: 0.019 ppbv

RT: 8.893 min Scan# 1962

Delta R.T. -0.003 min

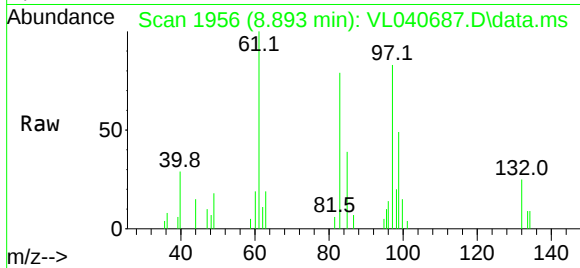
Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 97 Resp: 1810

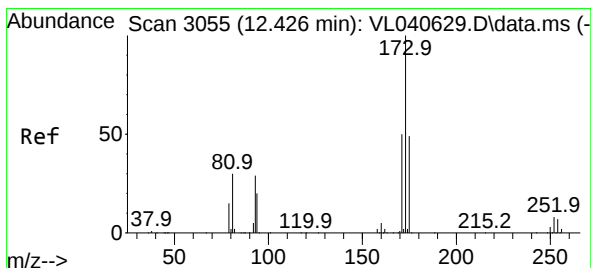
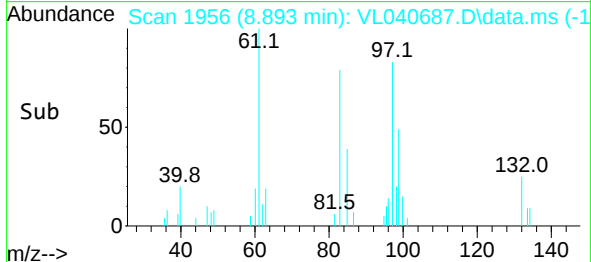
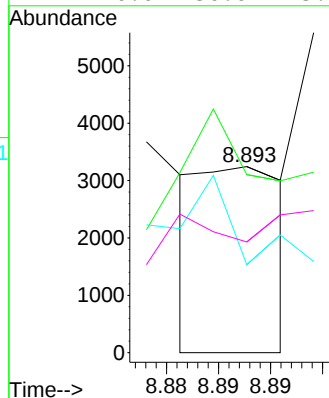
Ion Ratio Lower Upper

97 100

83 45.2 70.8 106.2#

85 0.0 45.7 68.5#

99 0.0 50.6 75.8#



#49

Bromoform

Concen: 0.029 ppbv

RT: 12.401 min Scan# 3047

Delta R.T. -0.003 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

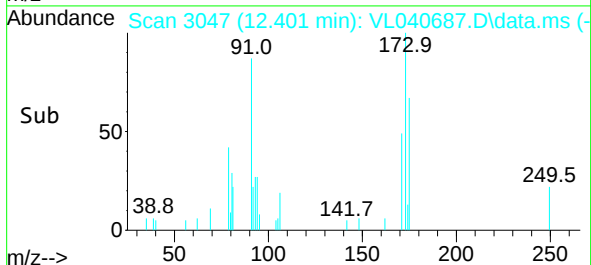
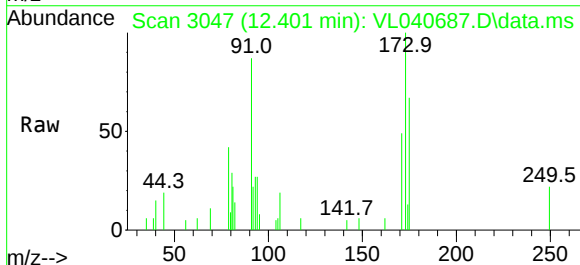
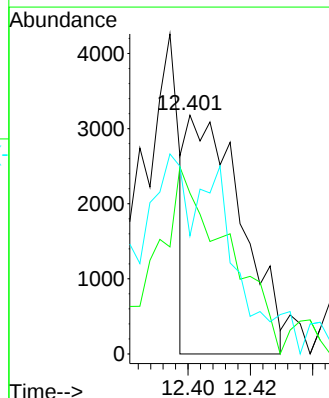
Tgt Ion: 173 Resp: 3869

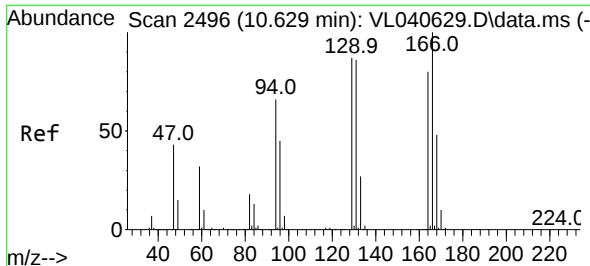
Ion Ratio Lower Upper

173 100

175 123.5 38.8 58.2#

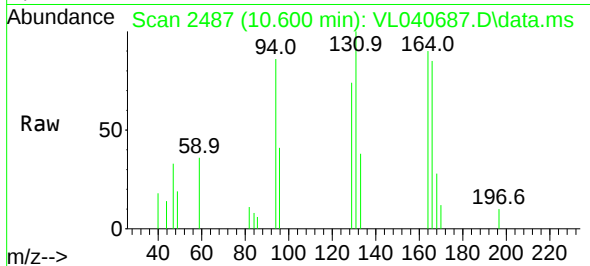
171 0.0 42.2 63.2#



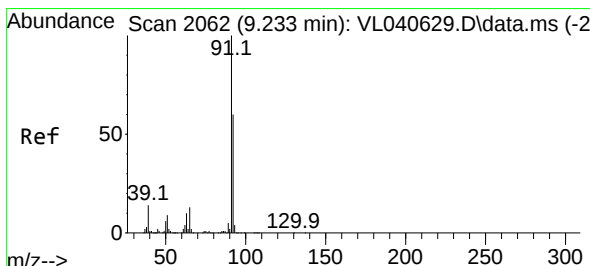
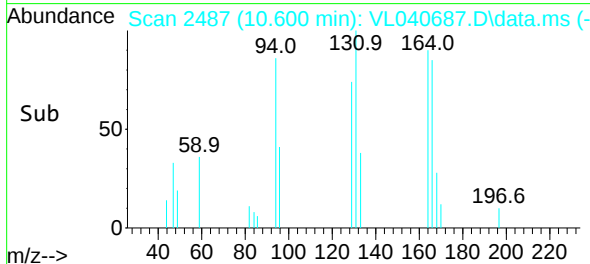
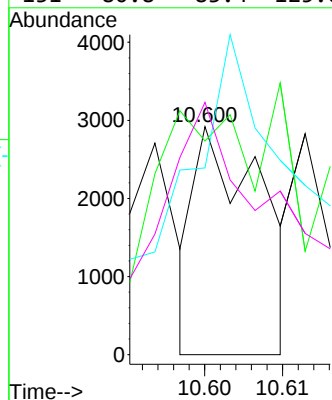


#52
Tetrachloroethene
Concen: 0.024 ppbv
RT: 10.600 min Scan# 2496
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :

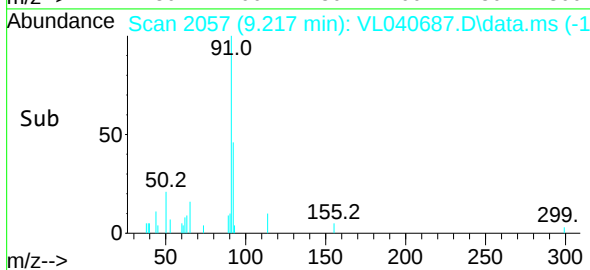
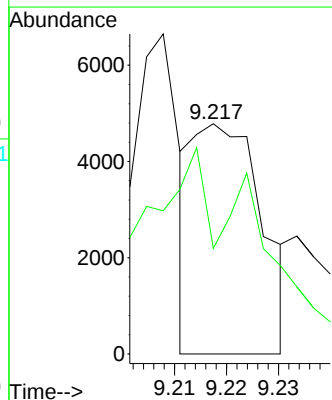
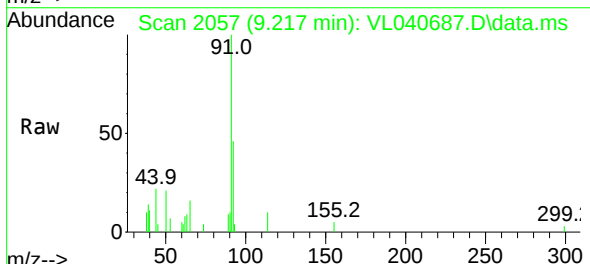


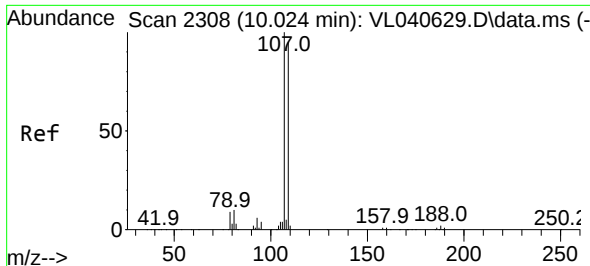
Tgt Ion:164 Resp: 1745
Ion Ratio Lower Upper
164 100
166 0.0 103.4 155.2#
129 2.0 83.5 125.3#
131 80.8 83.4 125.0#



#53
Toluene
Concen: 0.019 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 91 Resp: 4456
Ion Ratio Lower Upper
91 100
92 180.9 48.5 72.7#

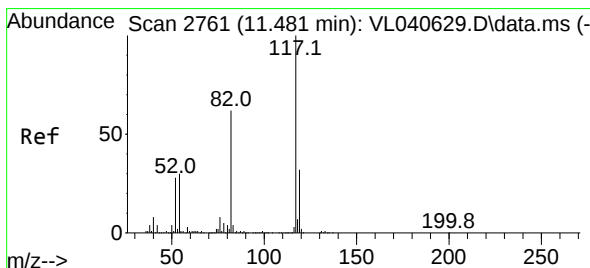
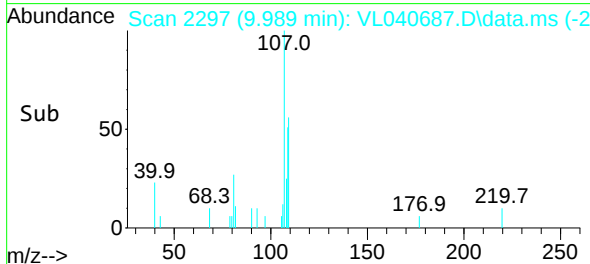
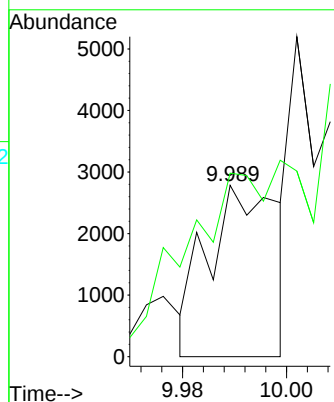
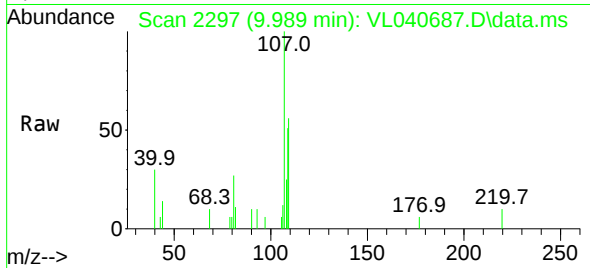




#54
1,2-Dibromoethane
Concen: 0.021 ppbv
RT: 9.989 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

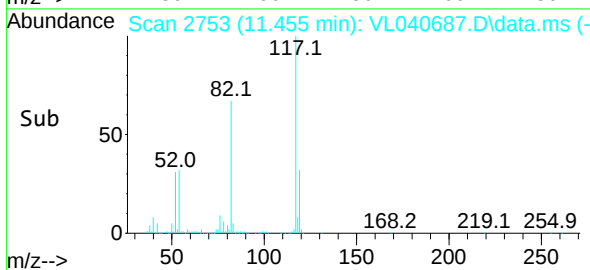
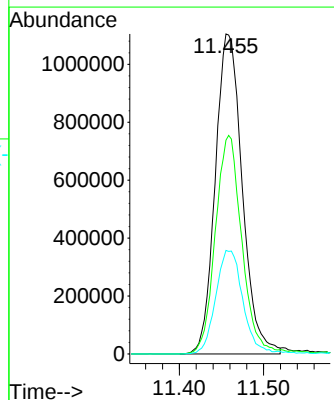
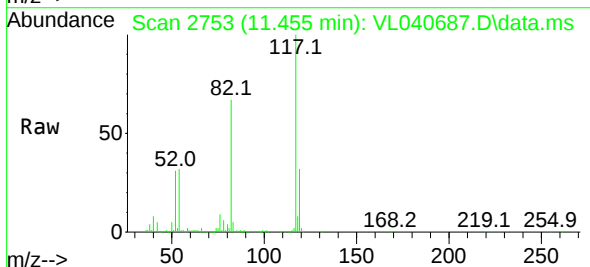
Instrument :
MSVOA_L
ClientSampleId :

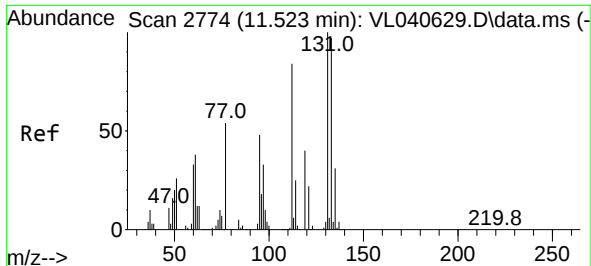
Tgt Ion:107 Resp: 2591
Ion Ratio Lower Upper
107 100
109 72.4 72.4 108.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion:117 Resp: 2455648
Ion Ratio Lower Upper
117 100
82 68.4 51.4 77.0
119 33.1 24.7 37.1

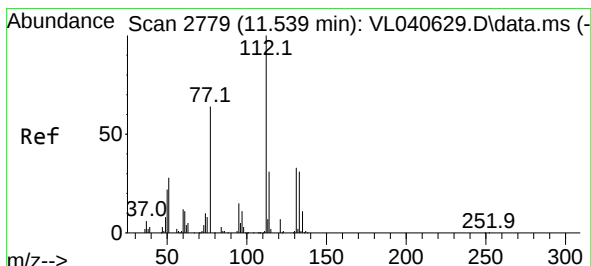
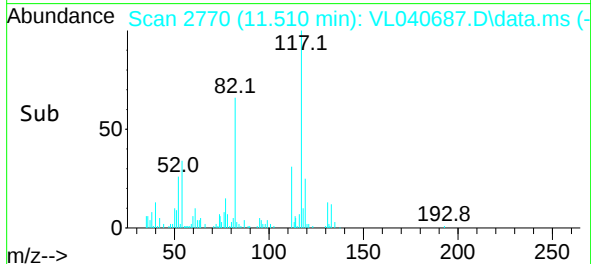
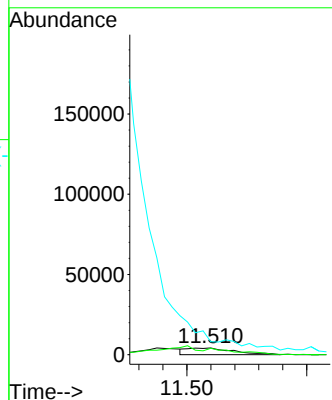
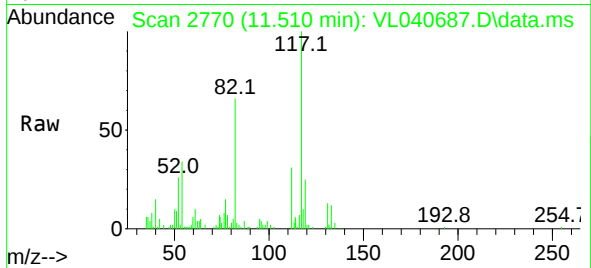




#56
1,1,1,2-Tetrachloroethane
Concen: 0.048 ppbv
RT: 11.510 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

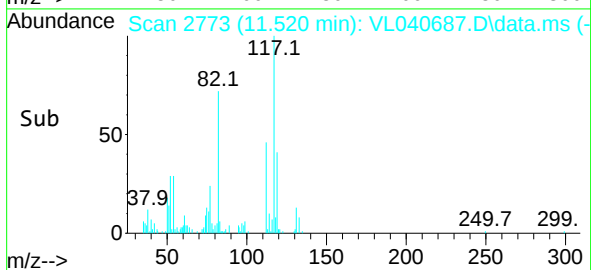
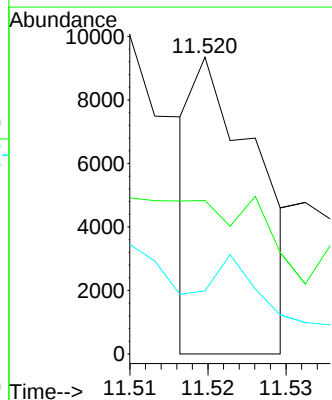
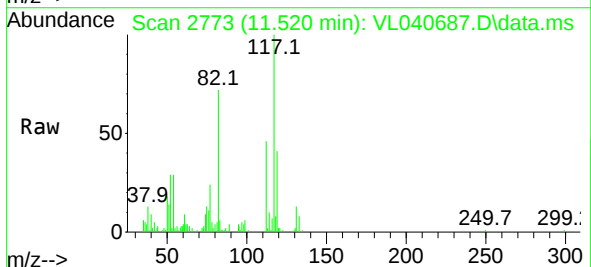
Instrument :
MSVOA_L
ClientSampleId :

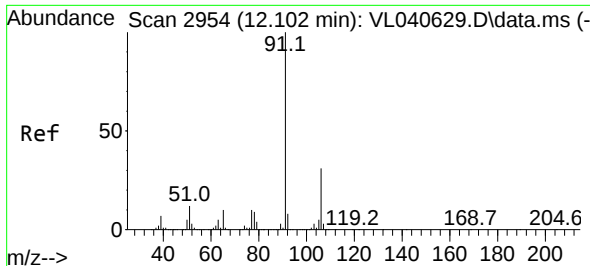
Tgt Ion:131 Resp: 5618
Ion Ratio Lower Upper
131 100
133 189.9 76.2 114.2#
119 0.0 45.5 68.3#



#57
Chlorobenzene
Concen: 0.028 ppbv
RT: 11.520 min Scan# 2773
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion:112 Resp: 5294
Ion Ratio Lower Upper
112 100
77 34.4 50.8 76.2#
114 16.0 28.2 34.4#

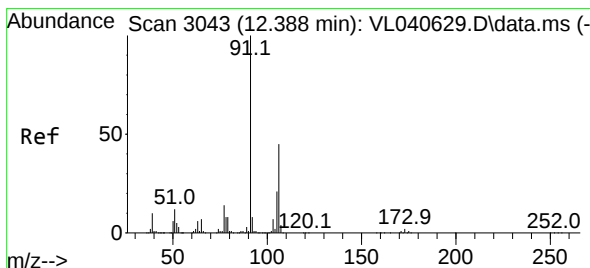
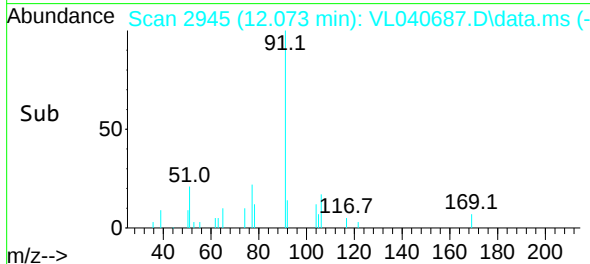
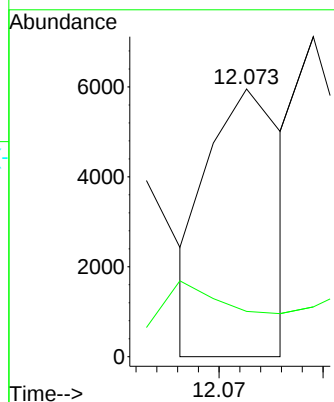
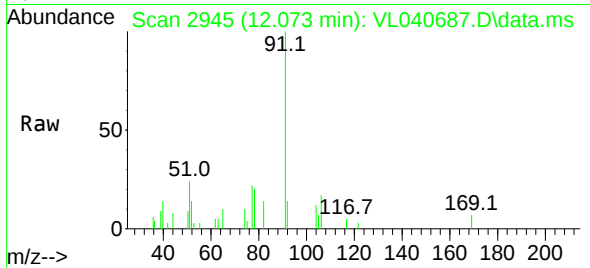




#58
Ethyl Benzene
Concen: 0.011 ppbv
RT: 12.073 min Scan# 2954
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

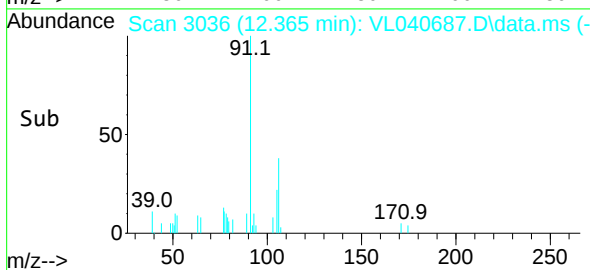
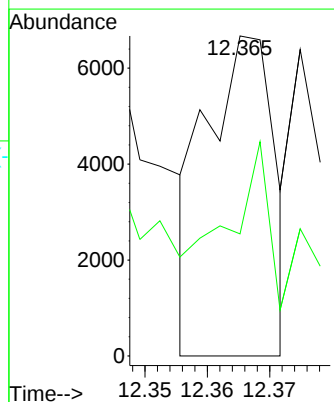
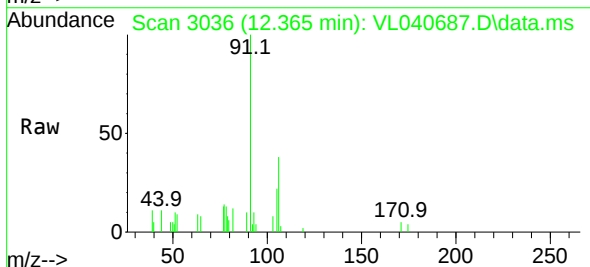
Instrument :
MSVOA_L
ClientSampleId :

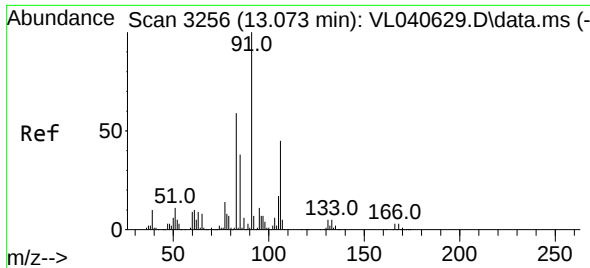
Tgt Ion: 91 Resp: 3034
Ion Ratio Lower Upper
91 100
106 1.4 24.7 37.1#



#59
m/p-Xylene
Concen: 0.019 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 91 Resp: 5084
Ion Ratio Lower Upper
91 100
106 206.8 34.8 52.2#

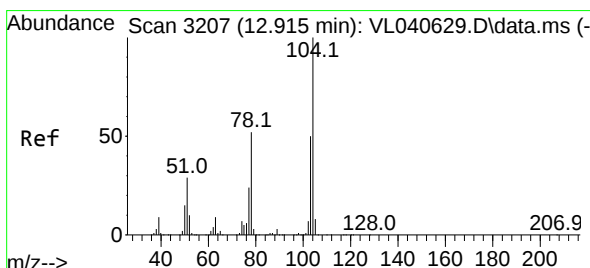
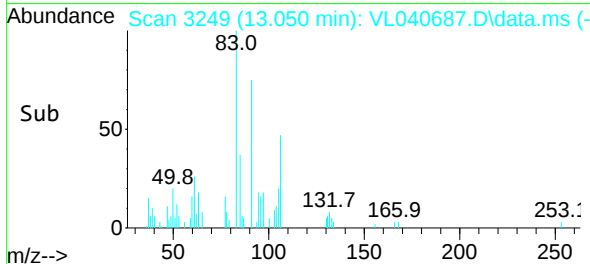
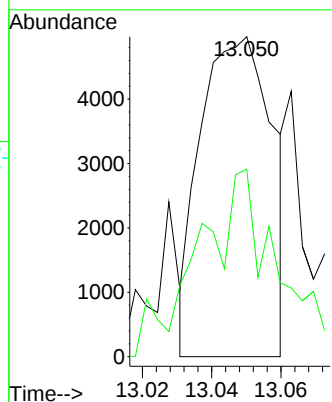
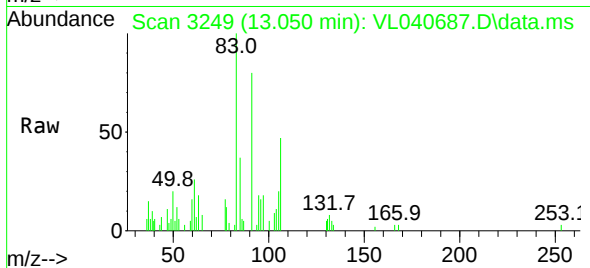




#60
o-Xylene
Concen: 0.028 ppbv
RT: 13.050 min Scan# 3198
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

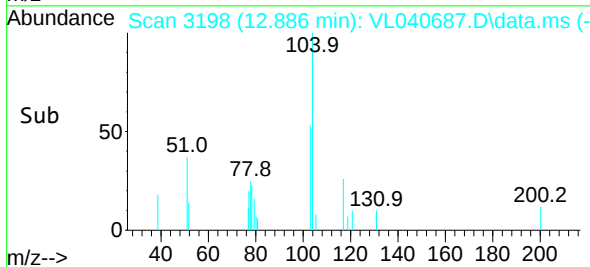
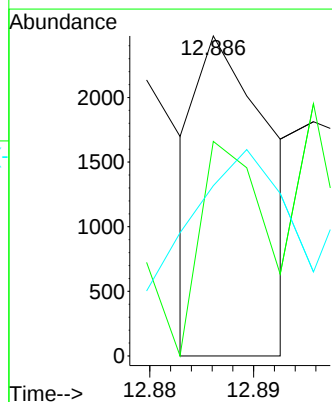
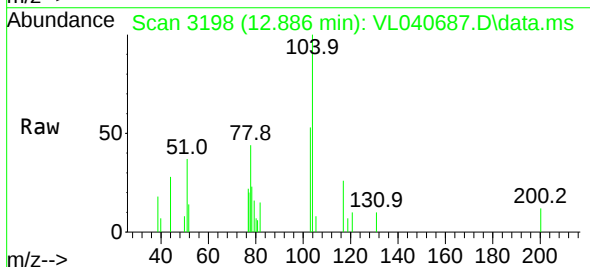
Instrument :
MSVOA_L
ClientSampleId :

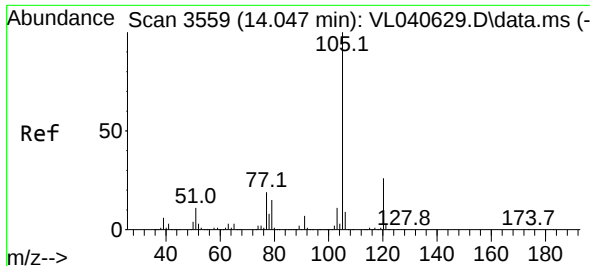
Tgt Ion: 91 Resp: 7103
Ion Ratio Lower Upper
91 100
106 69.8 22.3 66.9#



#61
Styrene
Concen: 0.011 ppbv
RT: 12.886 min Scan# 3198
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

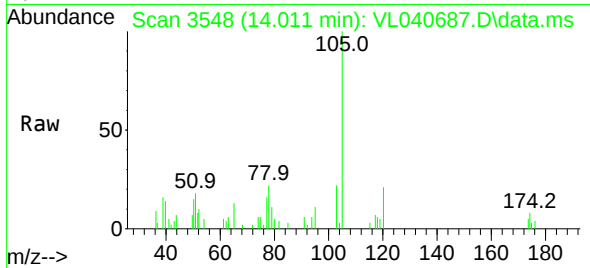
Tgt Ion: 104 Resp: 1190
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.0#
103 220.7 37.2 55.8#



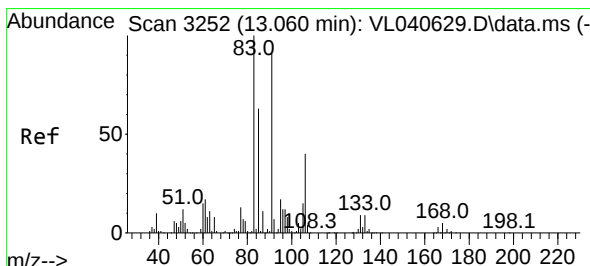
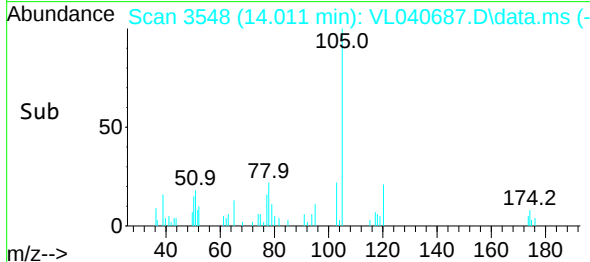
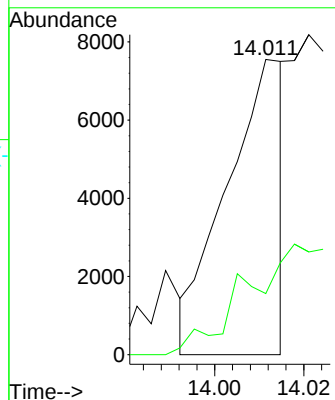


#62
Isopropylbenzene
Concen: 0.018 ppbv
RT: 14.011 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :

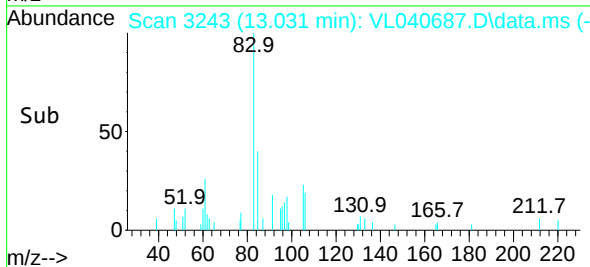
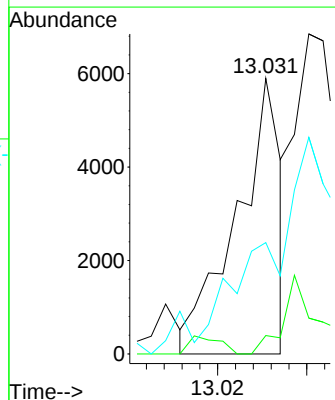
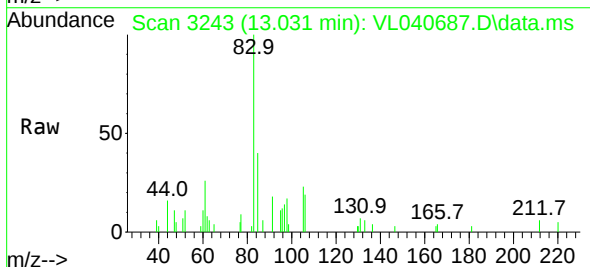


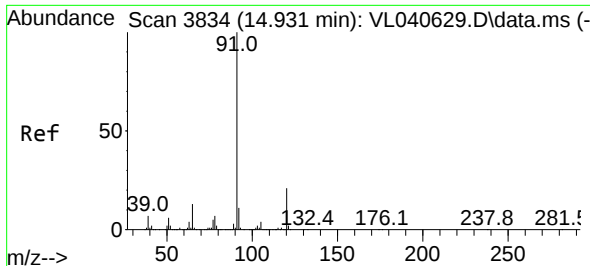
Tgt Ion:105 Resp: 6769
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.4#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.021 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion: 83 Resp: 4038
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 33.1 99.3#

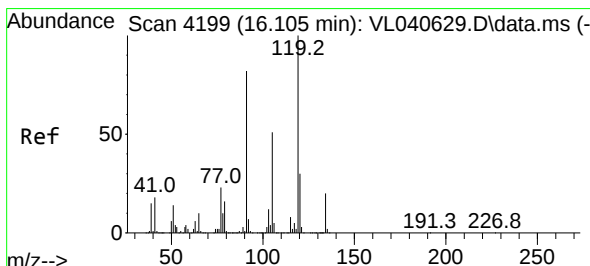
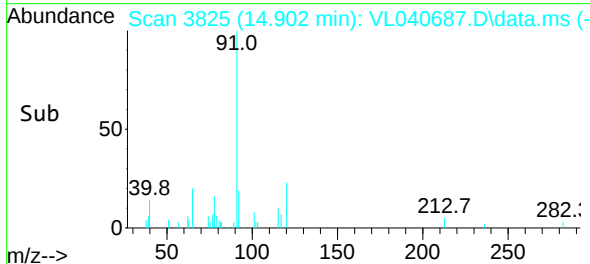
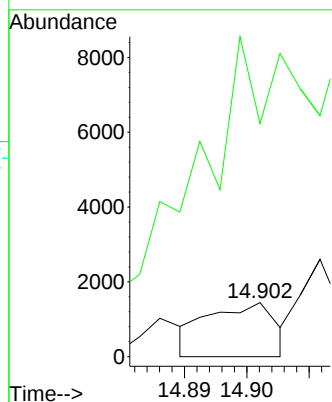
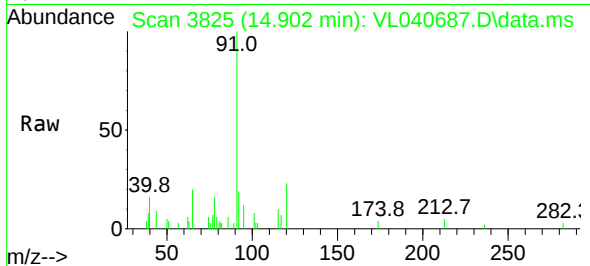




#64
n-propylbenzene
Concen: 0.012 ppbv
RT: 14.902 min Scan# 3825
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

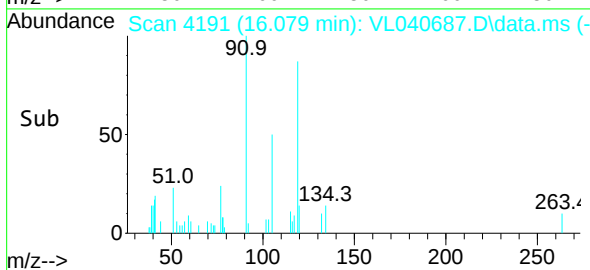
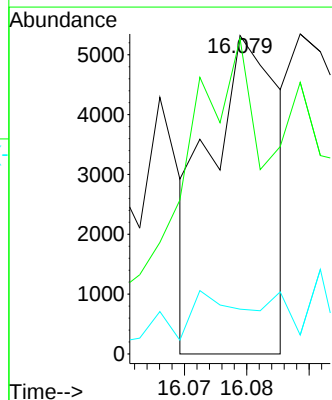
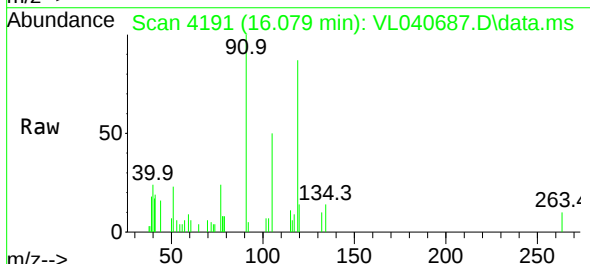
Instrument :
MSVOA_L
ClientSampleId :

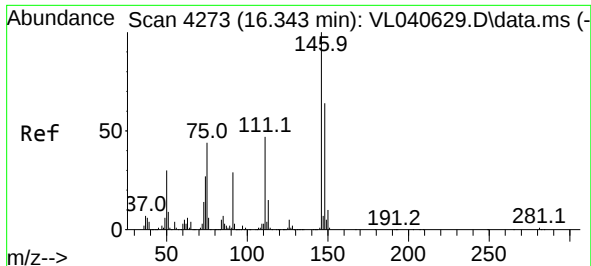
Tgt Ion:120 Resp: 1089
Ion Ratio Lower Upper
120 100
91 2213.1 386.9 580.3#



#65
tert-Butylbenzene
Concen: 0.012 ppbv
RT: 16.079 min Scan# 4191
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion:119 Resp: 4097
Ion Ratio Lower Upper
119 100
91 334.4 69.8 104.8#
134 0.0 15.4 23.2#

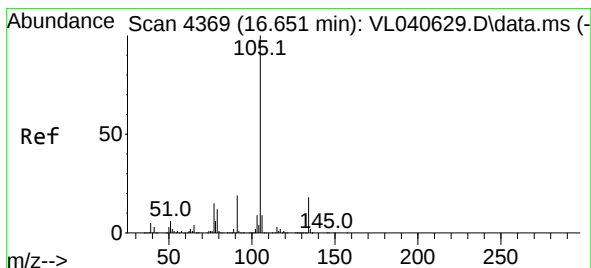
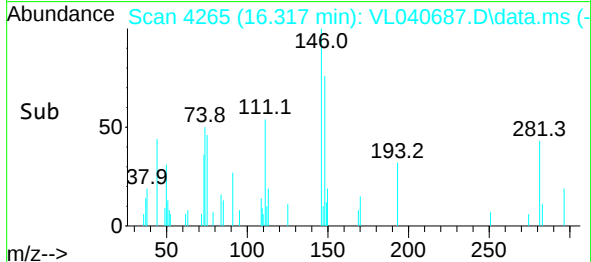
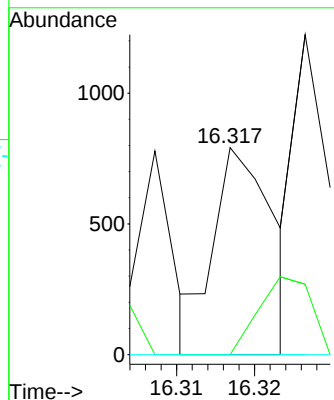
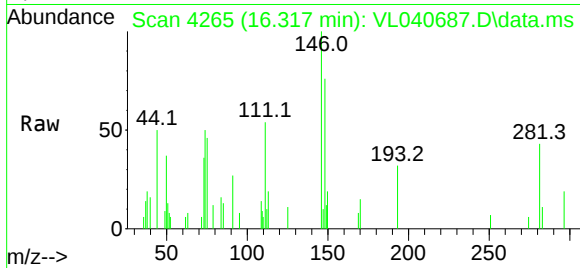




#66
Benzyl Chloride
Concen: 0.011 ppbv
RT: 16.317 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

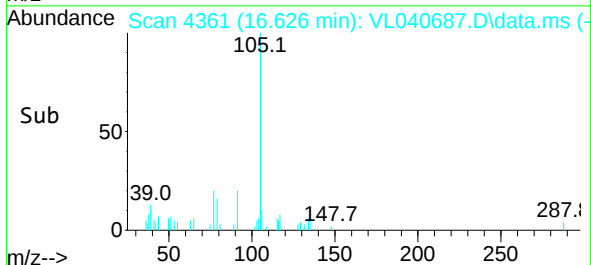
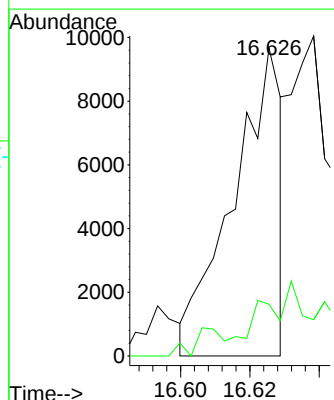
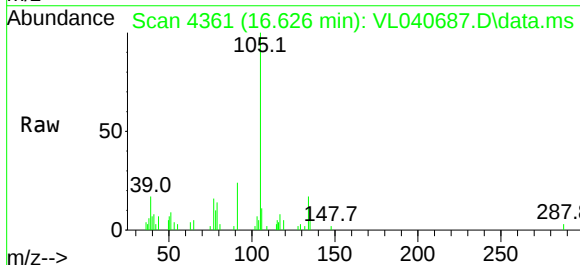
Instrument :
MSVOA_L
ClientSampleId :

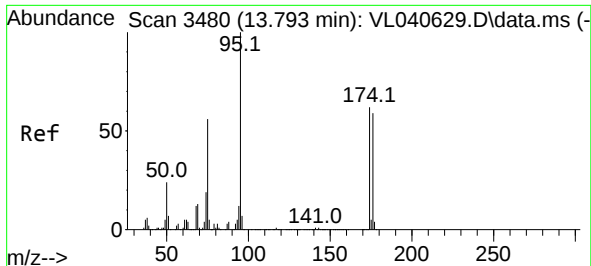
Tgt Ion: 91 Resp: 421
Ion Ratio Lower Upper
91 100
126 0.0 13.6 20.4#
128 0.0 4.4 6.6#



#67
sec-Butylbenzene
Concen: 0.019 ppbv
RT: 16.626 min Scan# 4361
Delta R.T. -0.006 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

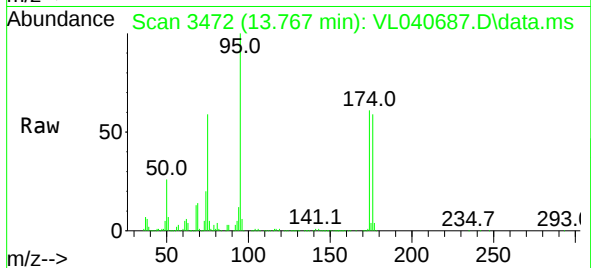
Tgt Ion: 105 Resp: 9375
Ion Ratio Lower Upper
105 100
134 0.0 14.1 21.1#



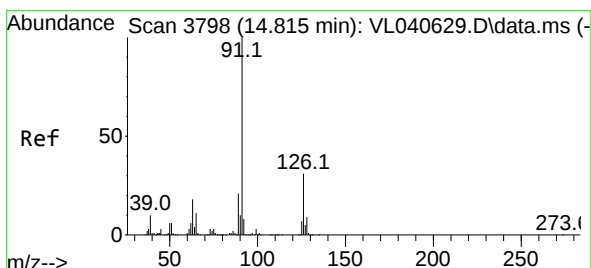
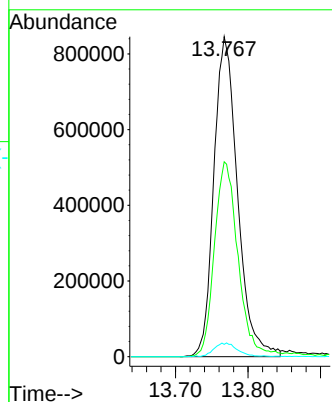
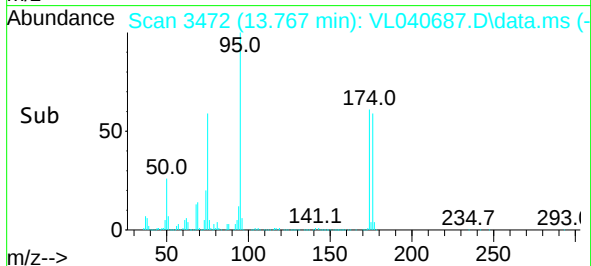


#68
1-Bromo-4-Fluorobenzene
Concen: 10.120 ppbv
RT: 13.767 min Scan# 3480
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

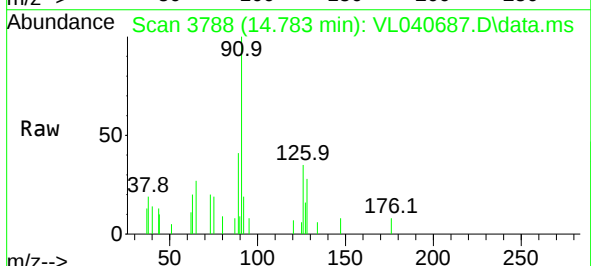
Instrument :
MSVOA_L
ClientSampleId :



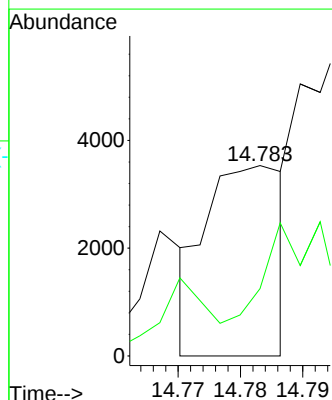
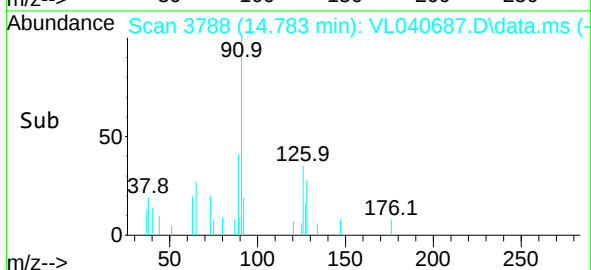
Tgt Ion: 95 Resp: 1920115
Ion Ratio Lower Upper
95 100
174 62.6 48.9 73.3
175 4.4 3.5 5.3

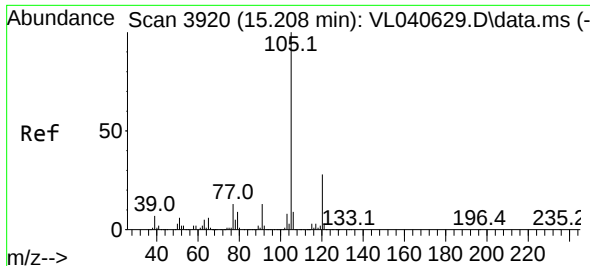


#71
2-Chlorotoluene
Concen: 0.011 ppbv
RT: 14.783 min Scan# 3788
Delta R.T. -0.013 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24



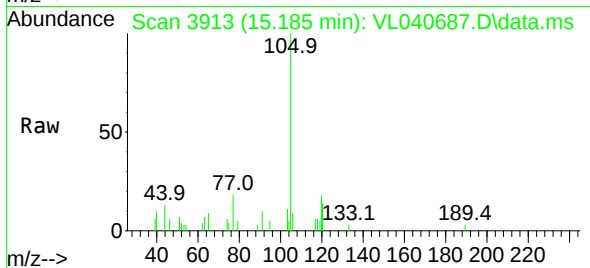
Tgt Ion: 91 Resp: 3045
Ion Ratio Lower Upper
91 100
126 0.0 12.0 47.8#





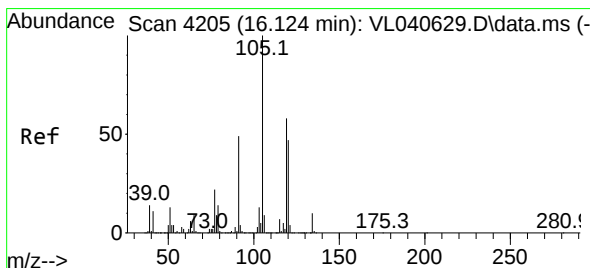
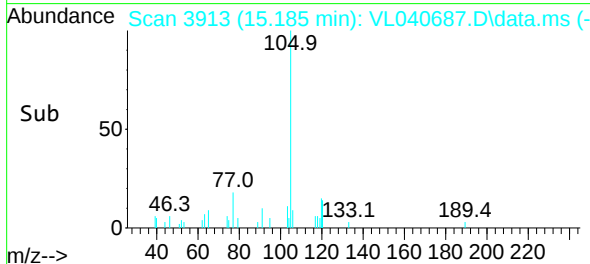
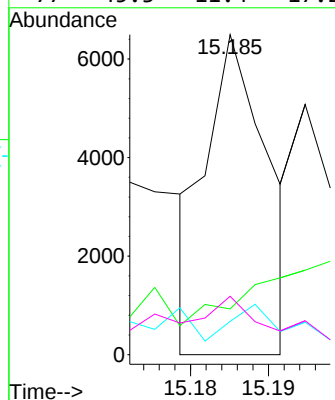
#72
4-Ethyltoluene
Concen: 0.013 ppbv
RT: 15.185 min Scan# 3920
Delta R.T. -0.003 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:105 Resp: 3523

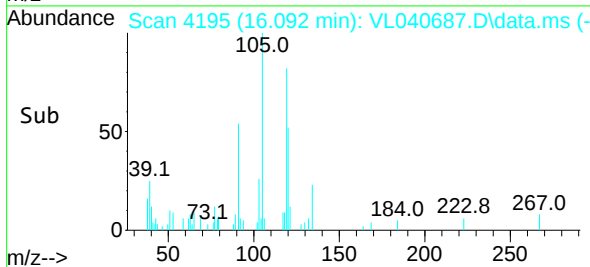
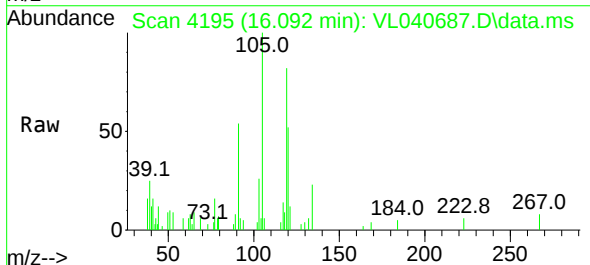
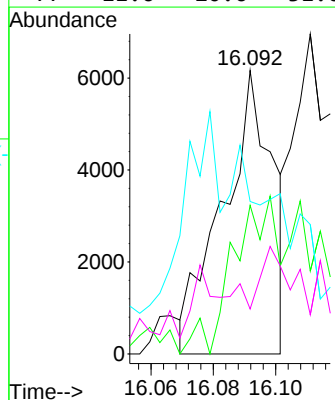
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.9	35.9#
91	50.2	11.0	16.4#
77	45.3	11.4	17.2#

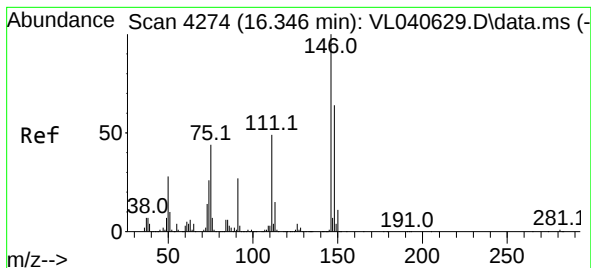


#74
1,2,4-Trimethylbenzene
Concen: 0.022 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

Tgt Ion:105 Resp: 6846

Ion	Ratio	Lower	Upper
105	100		
120	59.5	38.6	57.8#
91	13.7	50.0	75.0#
77	11.6	20.6	31.0#





#75

1,3-Dichlorobenzene

Concen: 0.010 ppbv

RT: 16.320 min Scan# 41

Delta R.T. -0.006 min

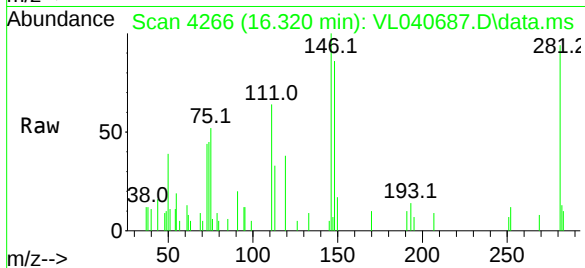
Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

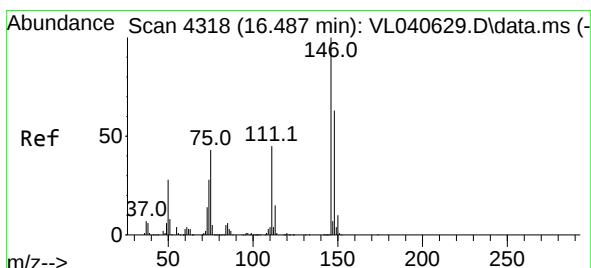
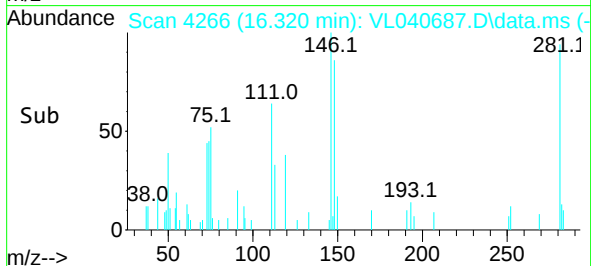
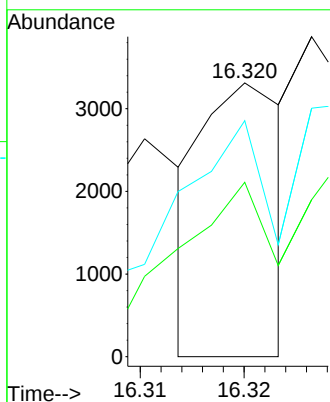
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:146	Resp:	1794
Ion	Ratio	Lower Upper
146	100	
111	0.0	23.9 71.7#
148	0.0	31.8 95.4#



#76

1,4-Dichlorobenzene

Concen: 0.011 ppbv

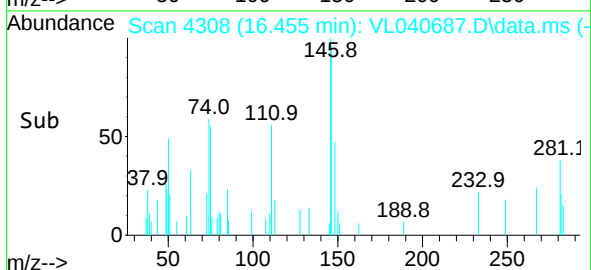
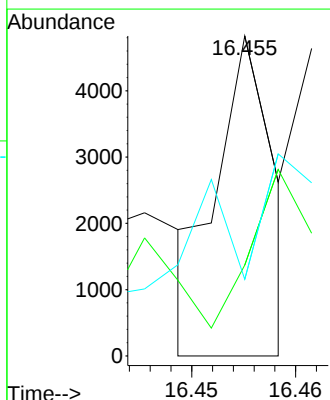
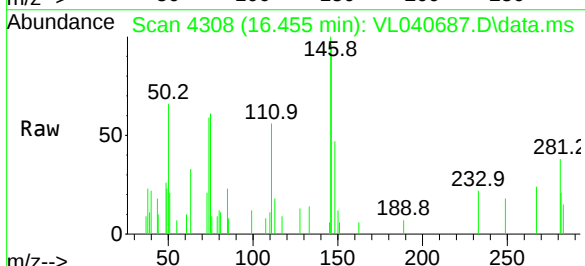
RT: 16.455 min Scan# 4308

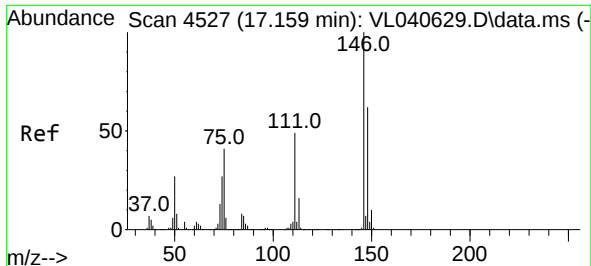
Delta R.T. -0.013 min

Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

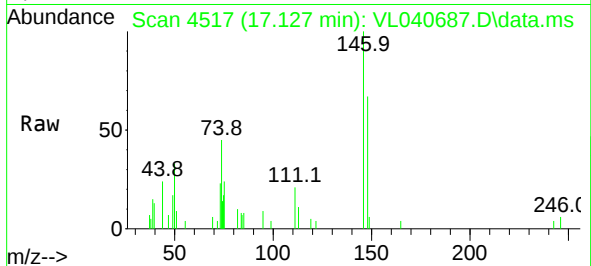
Tgt Ion:146	Resp:	1825
Ion	Ratio	Lower Upper
146	100	
111	0.0	23.8 71.2#
148	449.9	32.6 97.7#



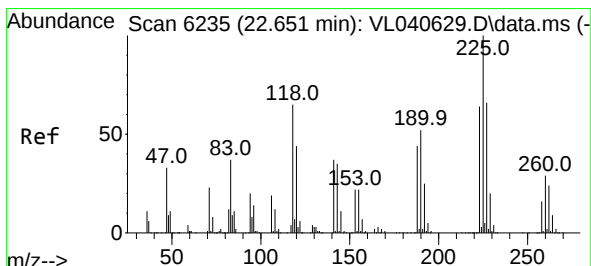
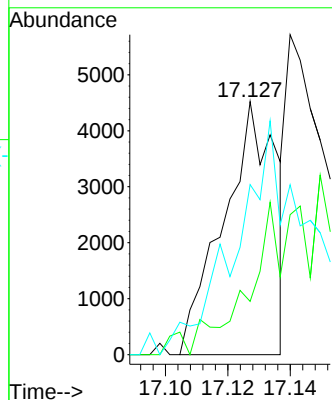
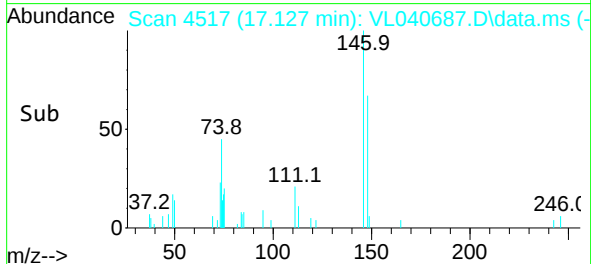


#77
1,2-Dichlorobenzene
Concen: 0.030 ppbv
RT: 17.127 min Scan# 4517
Delta R.T. -0.013 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24

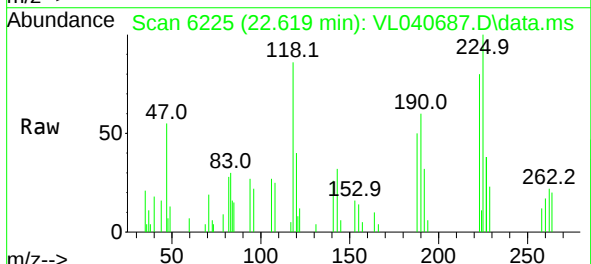
Instrument :
MSVOA_L
ClientSampleId :



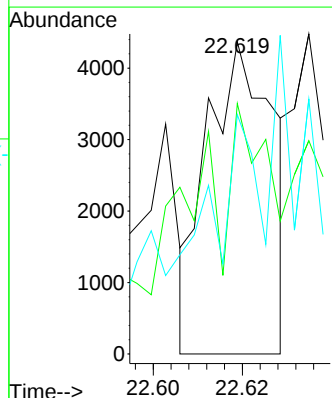
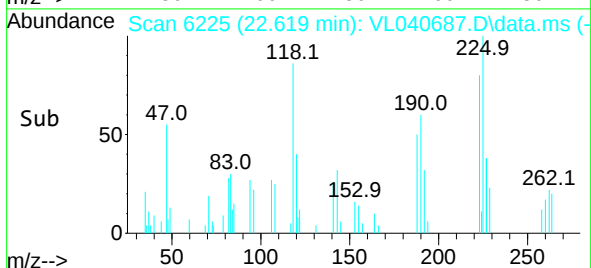
Tgt Ion:146 Resp: 5262
Ion Ratio Lower Upper
146 100
111 0.0 25.0 75.0#
148 0.0 32.4 97.0#

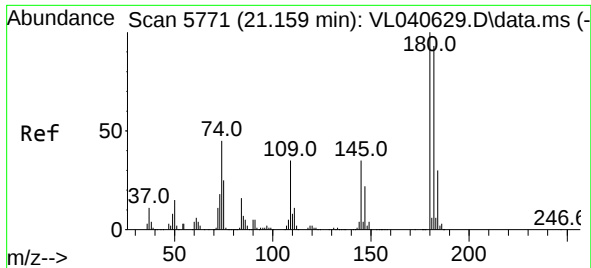


#78
Hexachloro-1,3-Butadiene
Concen: 0.034 ppbv
RT: 22.619 min Scan# 6225
Delta R.T. -0.010 min
Lab File: VL040687.D
Acq: 14 Sep 2023 16:24



Tgt Ion:225 Resp: 4484
Ion Ratio Lower Upper
225 100
223 198.5 51.2 76.8#
227 0.0 50.7 76.1#





#81

1,2,4-Trichlorobenzene

Concen: 0.011 ppbv

RT: 21.124 min Scan# 51

Delta R.T. -0.013 min

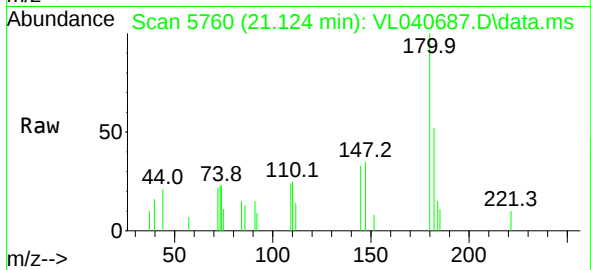
Lab File: VL040687.D

Acq: 14 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 1355

Ion Ratio Lower Upper

180 100

182 0.0 77.9 116.9#

184 0.0 24.4 36.6#

