

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041241.D
 Acq On : 8 May 2024 13:13
 Operator : SY/MD
 Sample : P2403-13 LOD 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 09 04:51:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu May 09 02:43:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.217	49	812942	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.680	114	2161532	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	1968339	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.805	95	1526641	10.274	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.754	85	15353	0.140	ppbv 98
3) Chlorodifluoromethane	2.697	51	15149	0.123	ppbv 96
4) Chloromethane	2.841	50	2175	0.045	ppbv # 82
5) Vinyl Chloride	2.944	62	4223	0.087	ppbv # 88
6) Bromomethane	3.140	94	651	0.037	ppbv 93
7) Chloroethane	3.221	64	1158	0.067	ppbv # 82
8) Dichlorotetrafluoroethane	2.877	85	11056	0.097	ppbv 90
9) Propene	2.722	41	7418	0.154	ppbv 98
10) Heptane	7.606	43	4481	0.038	ppbv # 1
11) Trichlorofluoromethane	3.587	101	11216	0.100	ppbv # 76
12) 1,1,2-Trichlorotrifluo...	4.092	101	3170	0.038	ppbv # 1
14) Bromoethene	3.391	108	3390	0.099	ppbv # 87
16) 1,3-Butadiene	3.005	39	2397	0.049	ppbv # 10
18) 1,1-Dichloroethene	3.899	96	2066	0.056	ppbv # 53
20) Methylene Chloride	3.957	84	4321	0.130	ppbv # 76
21) Allyl Chloride	4.021	41	5320	0.085	ppbv # 67
22) trans-1,2-Dichloroethene	4.471	96	2567	0.067	ppbv # 57
24) 1,1-Dichloroethane	4.590	63	6315	0.077	ppbv # 94
26) Hexane	5.233	57	4031	0.047	ppbv # 1
27) Carbon Disulfide	4.153	76	7634	0.075	ppbv # 1
30) Cyclohexane	6.632	84	2507	0.037	ppbv # 1
31) cis-1,2-Dichloroethene	5.098	61	2685	0.034	ppbv # 87
32) 1,1,1-Trichloroethane	6.028	97	5676	0.048	ppbv # 11
35) Carbon Tetrachloride	6.516	117	5424	0.045	ppbv # 77
36) Benzene	6.397	78	10865	0.060	ppbv # 87
37) 1,2-Dichloroethane	5.835	62	4676	0.049	ppbv # 72
38) Trichloroethene	7.323	130	4180	0.062	ppbv # 32
39) 1,2-Dichloropropane	6.680	63	548457	7.846	ppbv # 24
42) Bromodichloromethane	7.275	83	10465	0.077	ppbv # 81
48) Dibromochloromethane	9.735	129	6635	0.060	ppbv 74
52) Tetrachloroethene	10.645	164	3968	0.062	ppbv # 65
53) Toluene	9.249	91	10795	0.051	ppbv # 49
54) 1,2-Dibromoethane	10.040	107	4980	0.053	ppbv 81
56) 1,1,1,2-Tetrachloroethane	11.542	131	2474	0.031	ppbv # 1
57) Chlorobenzene	11.555	112	9644	0.067	ppbv # 81
60) o-Xylene	13.082	91	12436	0.058	ppbv 72
62) Isopropylbenzene	14.063	105	13315	0.042	ppbv # 50
63) 1,1,2,2-Tetrachloroethane	13.076	83	5487	0.038	ppbv # 1
65) tert-Butylbenzene	16.127	119	11456	0.040	ppbv # 1
67) sec-Butylbenzene	16.664	105	17164	0.043	ppbv # 49
70) n-Butylbenzene	17.924	91	17065	0.049	ppbv # 69
74) 1,2,4-Trimethylbenzene	16.137	105	9100	0.038	ppbv # 65
75) 1,3-Dichlorobenzene	16.368	146	4926	0.036	ppbv # 1

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: May 09 04:51:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration

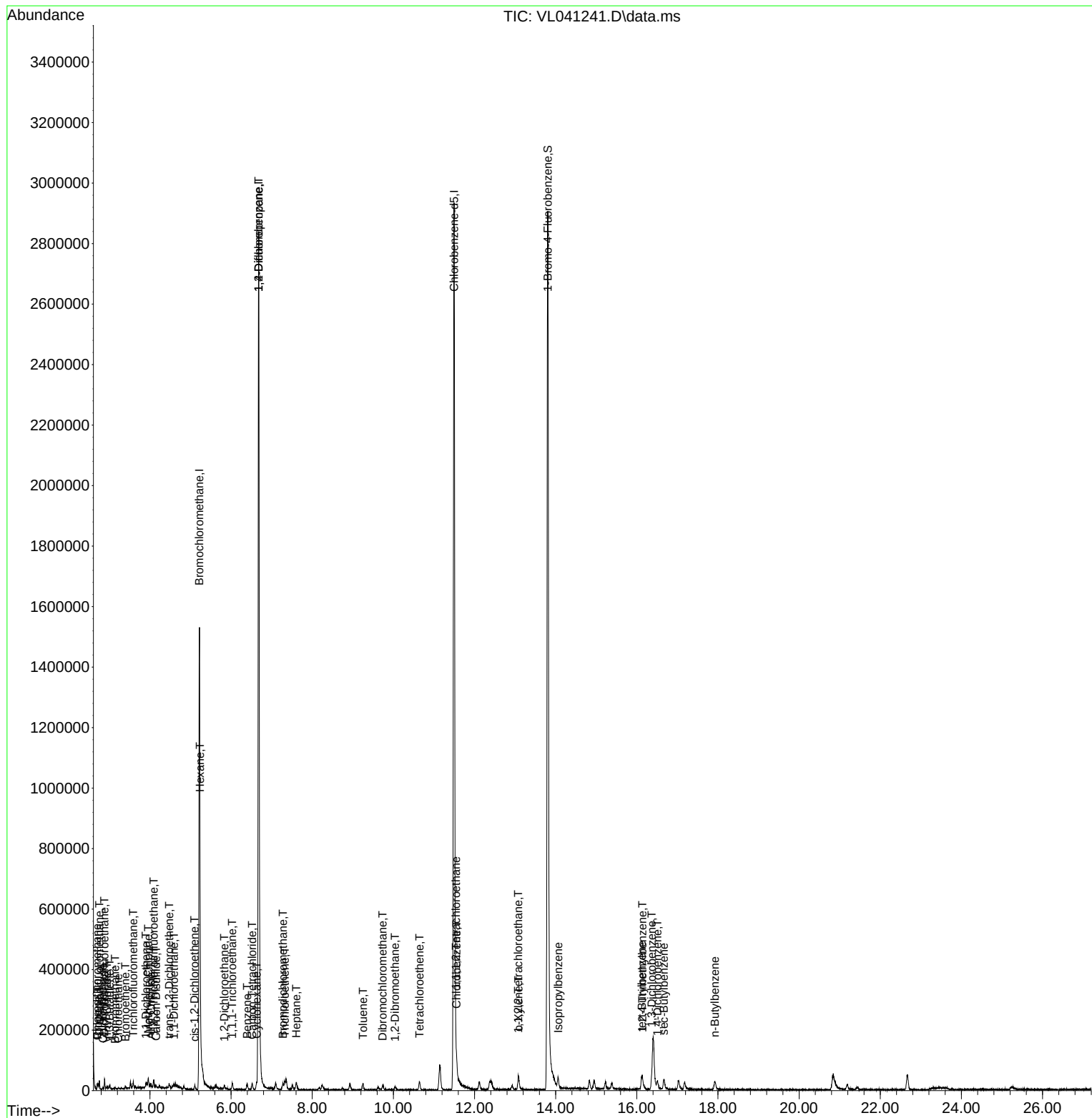
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-Dichlorobenzene	16.509	146	5589	0.043	ppbv	# 1

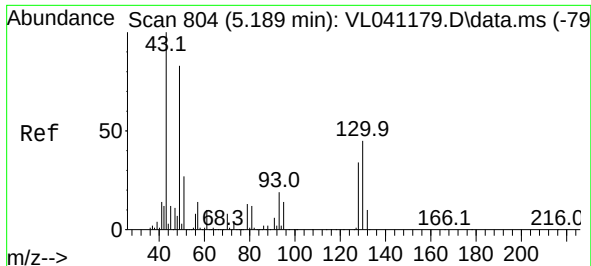
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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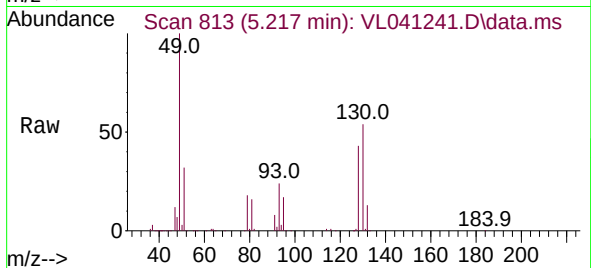
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration



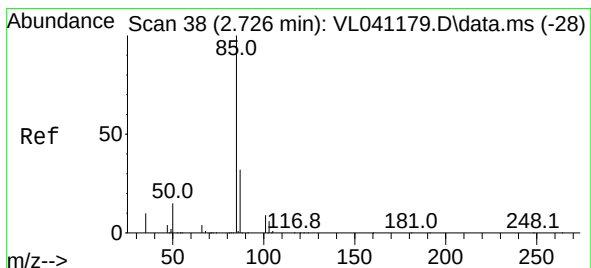
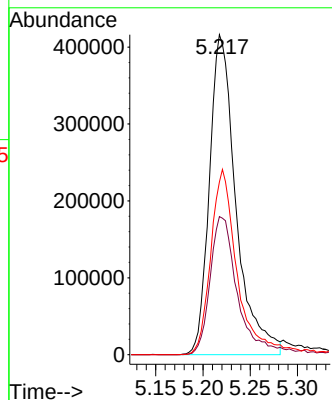
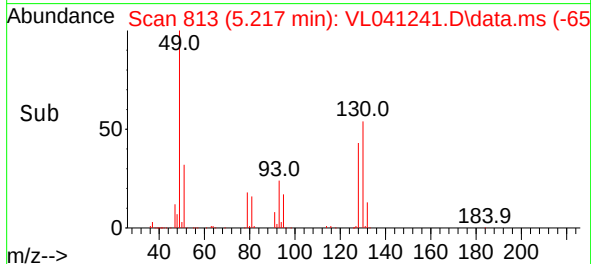


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.217 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Instrument :
MSVOA_L
ClientSampleId :

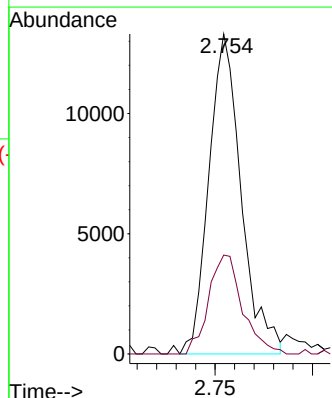
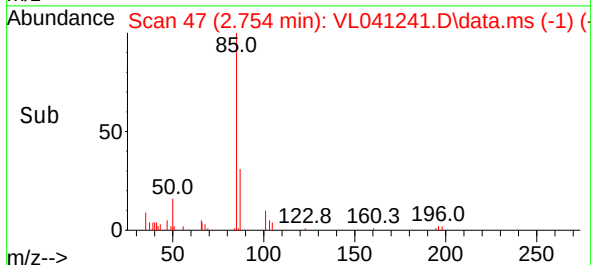
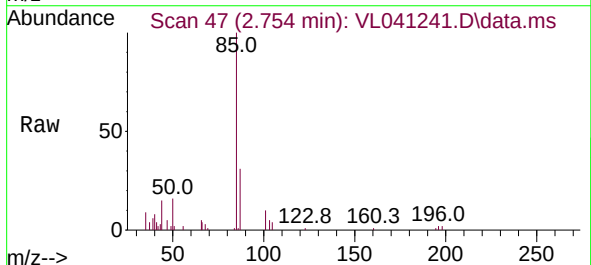


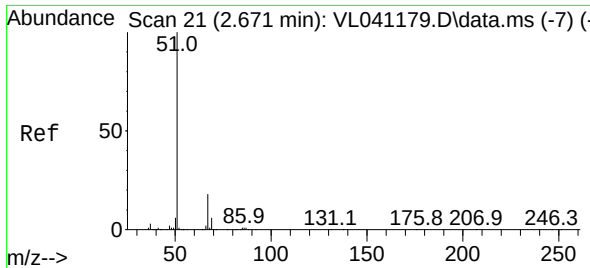
Tgt Ion: 49 Resp: 812942
Ion Ratio Lower Upper
49 100
128 45.4 21.5 64.5
130 60.5 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 2.754 min Scan# 47
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 85 Resp: 15353
Ion Ratio Lower Upper
85 100
87 30.9 25.7 38.5

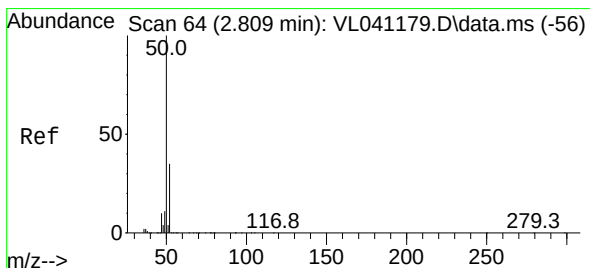
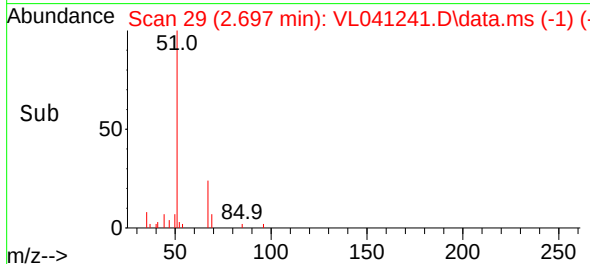
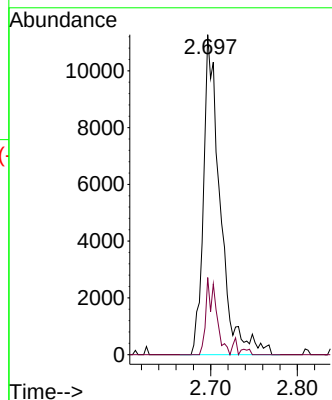
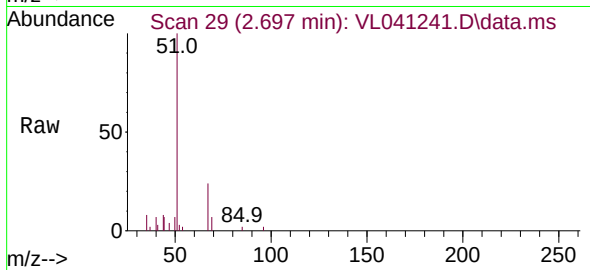




#3
Chlorodifluoromethane
Concen: 0.123 ppbv
RT: 2.697 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

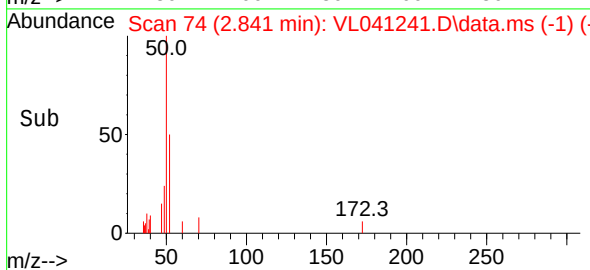
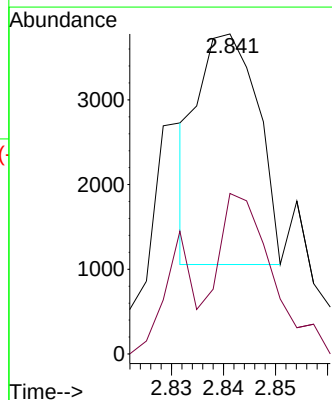
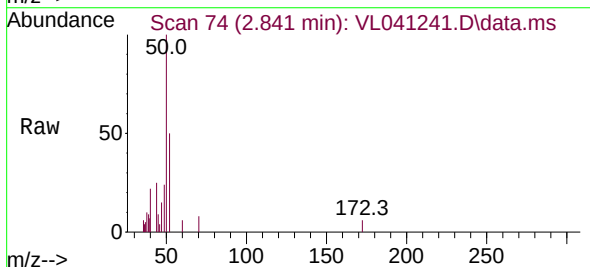
Instrument :
MSVOA_L
ClientSampleId :

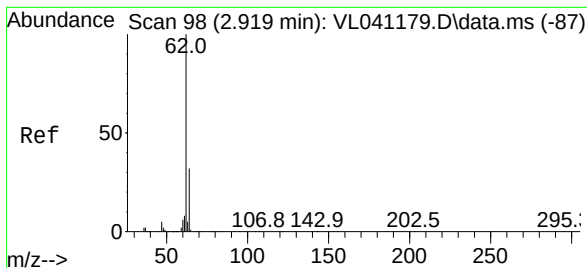
Tgt Ion: 51 Resp: 15149
Ion Ratio Lower Upper
51 100
67 15.8 14.0 21.0



#4
Chloromethane
Concen: 0.045 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 50 Resp: 2175
Ion Ratio Lower Upper
50 100
52 45.7 28.3 42.5#

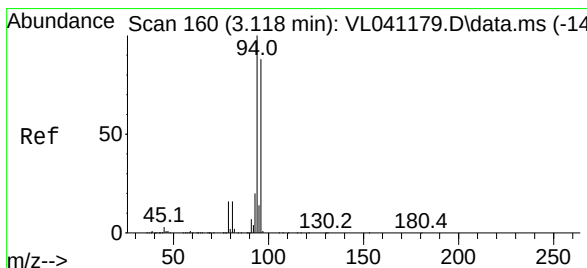
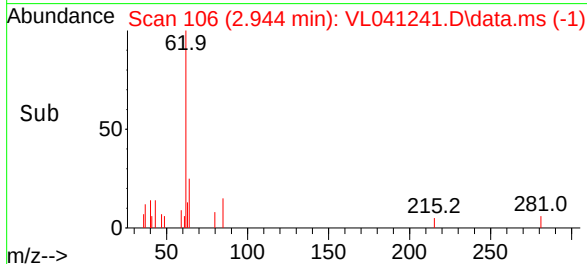
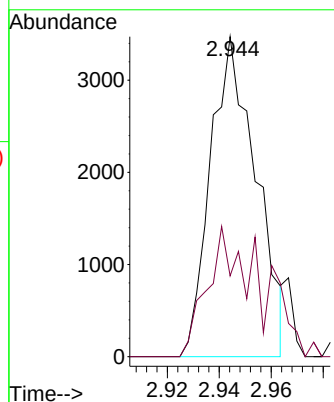
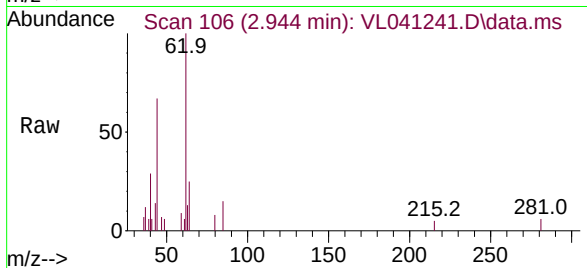




#5
 Vinyl Chloride
 Concen: 0.087 ppbv
 RT: 2.944 min Scan# 106
 Delta R.T. 0.006 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

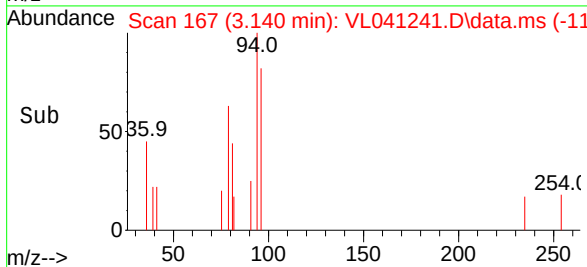
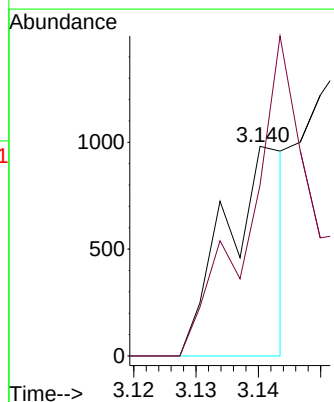
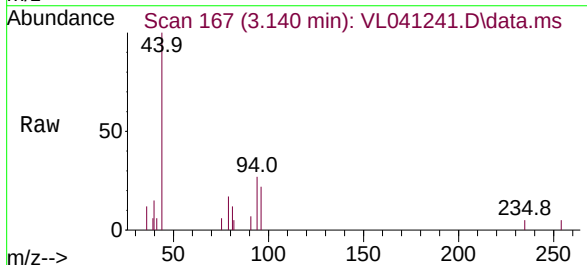
Instrument :
 MSVOA_L
 ClientSampleId :

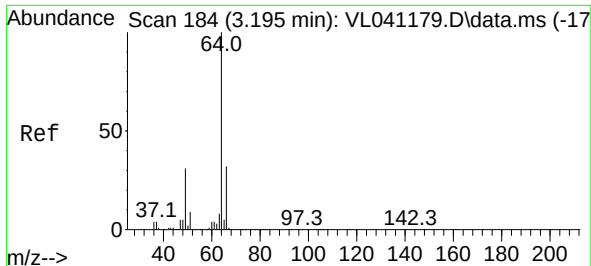
Tgt Ion: 62 Resp: 4223
 Ion Ratio Lower Upper
 62 100
 64 25.3 25.7 38.5#



#6
 Bromomethane
 Concen: 0.037 ppbv
 RT: 3.140 min Scan# 167
 Delta R.T. 0.003 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Tgt Ion: 94 Resp: 651
 Ion Ratio Lower Upper
 94 100
 96 81.5 70.1 105.1

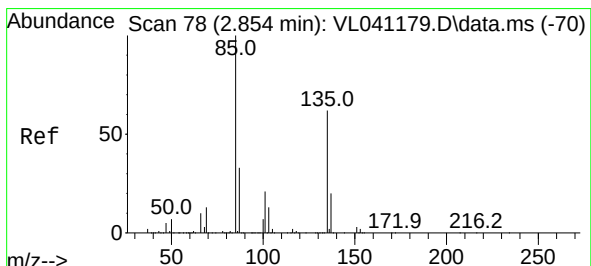
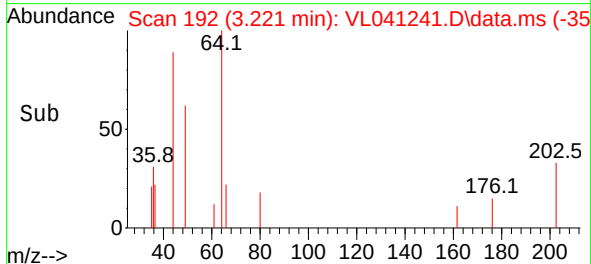
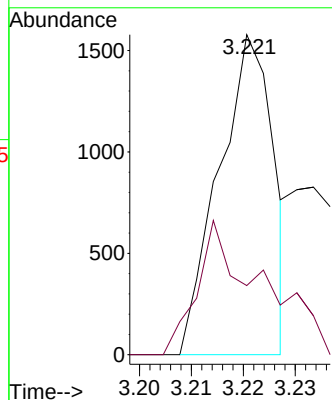
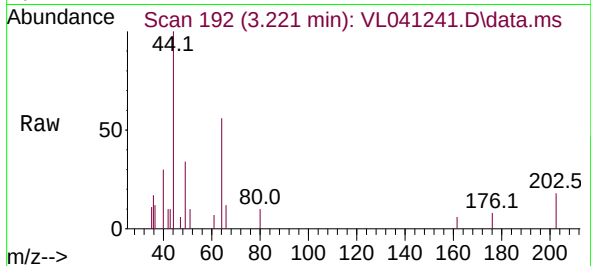




#7
Chloroethane
Concen: 0.067 ppbv
RT: 3.221 min Scan# 1158
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

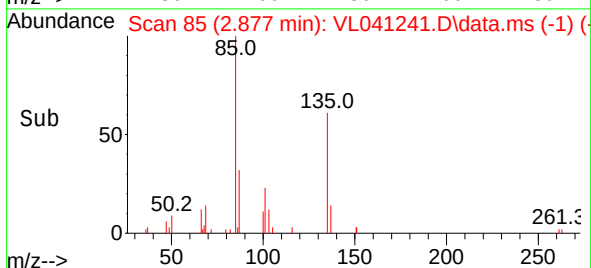
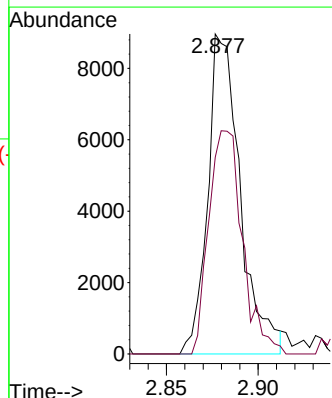
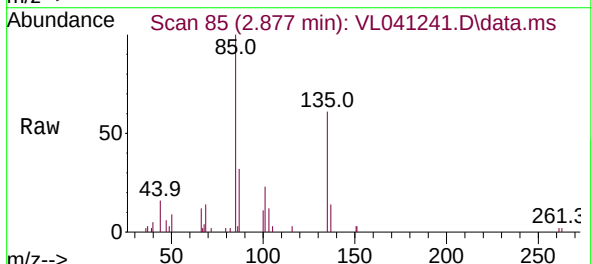
Instrument :
MSVOA_L
ClientSampleId :

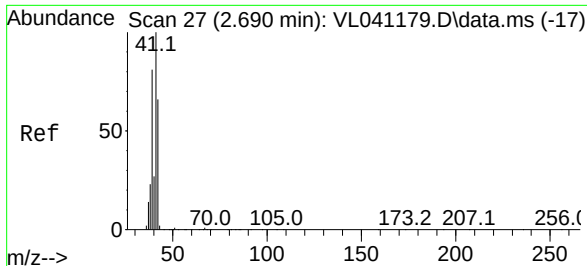
Tgt Ion: 64 Resp: 1158
Ion Ratio Lower Upper
64 100
66 21.6 25.4 38.2#



#8
Dichlorotetrafluoroethane
Concen: 0.097 ppbv
RT: 2.877 min Scan# 85
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 85 Resp: 11056
Ion Ratio Lower Upper
85 100
135 72.2 51.5 77.3





#9

Propene

Concen: 0.154 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_1

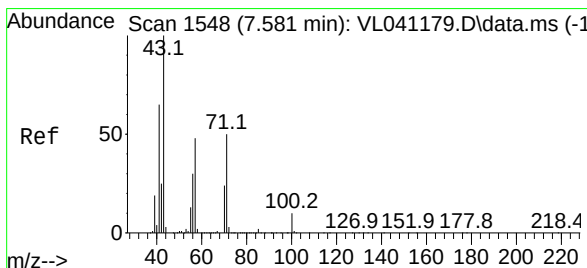
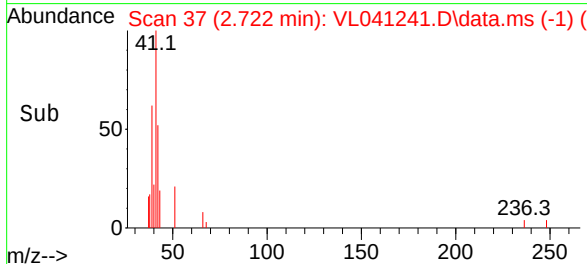
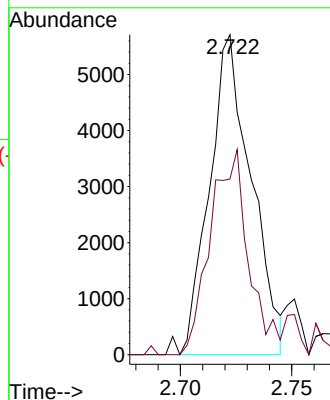
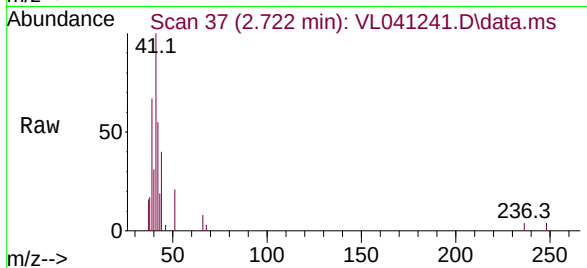
ClientSampleId :

Tgt Ion: 41 Resp: 7418

Ion Ratio Lower Upper

41 100

42 67.8 55.3 82.9



#10

Heptane

Concen: 0.038 ppbv

RT: 7.606 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VL041241.D

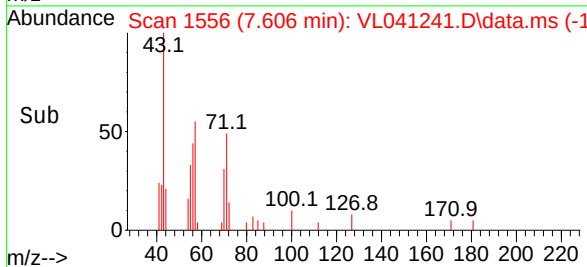
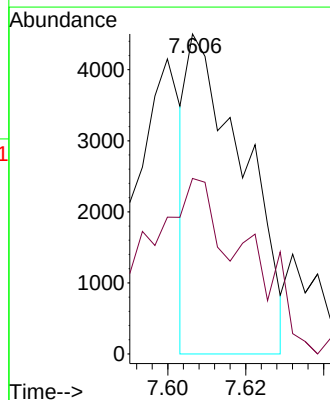
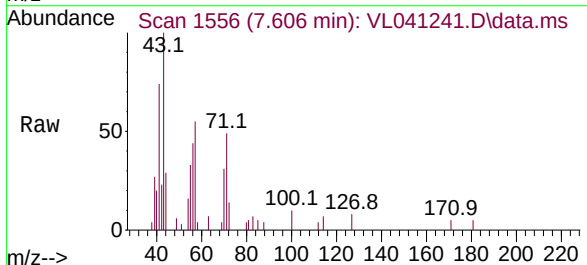
Acq: 8 May 2024 13:13

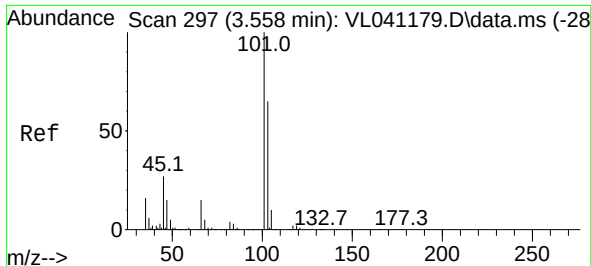
Tgt Ion: 43 Resp: 4481

Ion Ratio Lower Upper

43 100

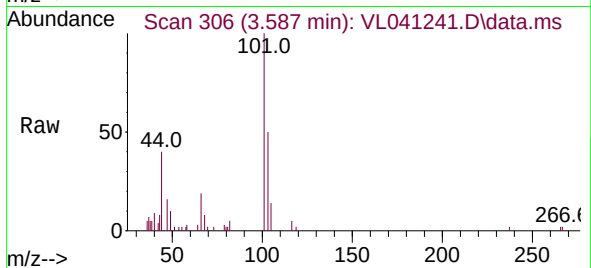
57 116.5 38.7 58.1#



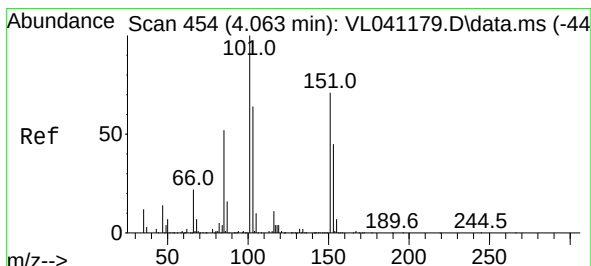
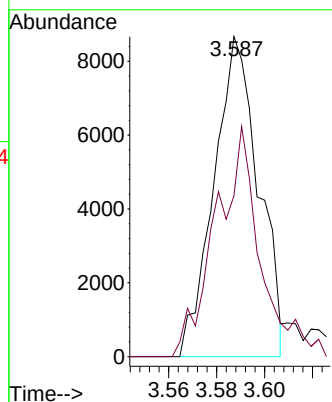
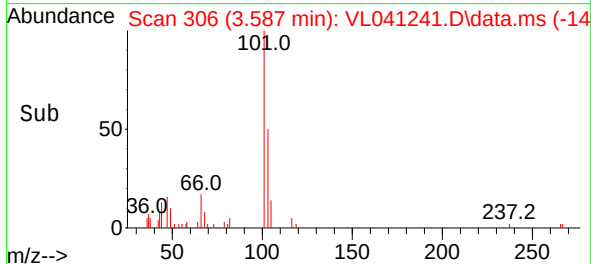


#11
 Trichlorofluoromethane
 Concen: 0.100 ppbv
 RT: 3.587 min Scan# 306
 Delta R.T. 0.006 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Instrument :
 MSVOA_L
 ClientSampleId :

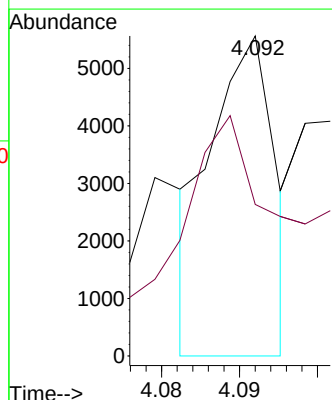
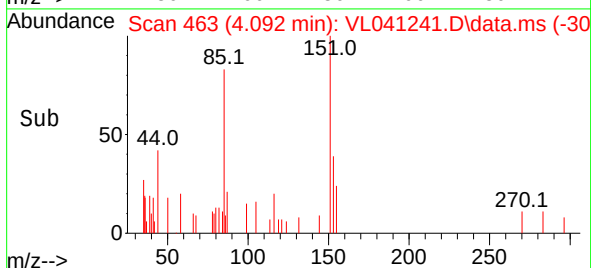
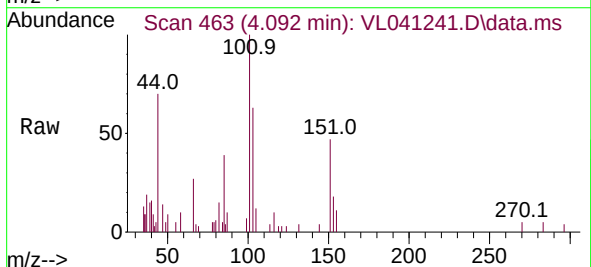


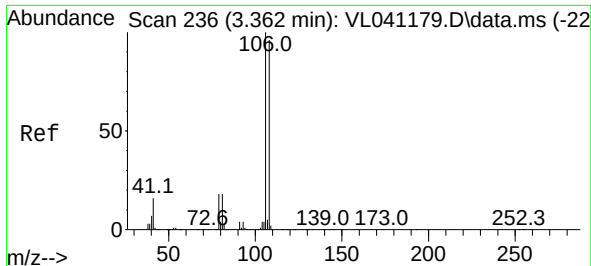
Tgt Ion:101 Resp: 11216
 Ion Ratio Lower Upper
 101 100
 103 45.6 51.6 77.4#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.038 ppbv
 RT: 4.092 min Scan# 463
 Delta R.T. 0.009 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Tgt Ion:101 Resp: 3170
 Ion Ratio Lower Upper
 101 100
 151 193.8 56.8 85.2#





#14

Bromoethene

Concen: 0.099 ppbv

RT: 3.391 min Scan# 24

Delta R.T. 0.006 min

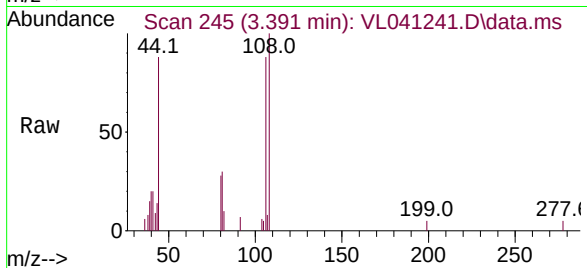
Lab File: VL041241.D

Acq: 8 May 2024 13:13

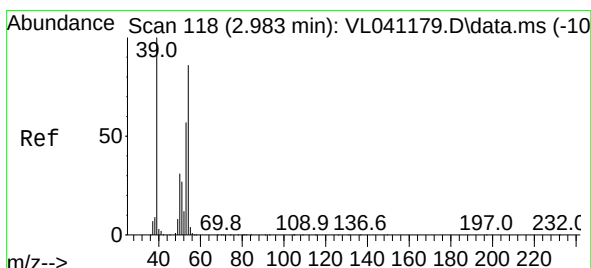
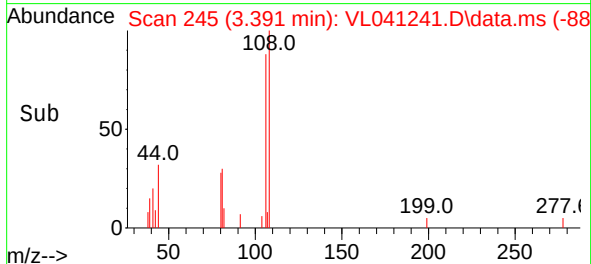
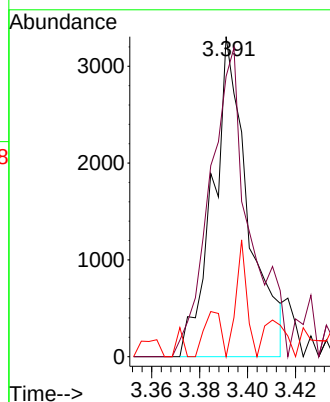
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	108	Resp:	3390
Ion	Ratio	Lower	Upper
108	100		
106	122.5	88.2	132.4
79	11.2	17.4	26.0#



#16

1,3-Butadiene

Concen: 0.049 ppbv

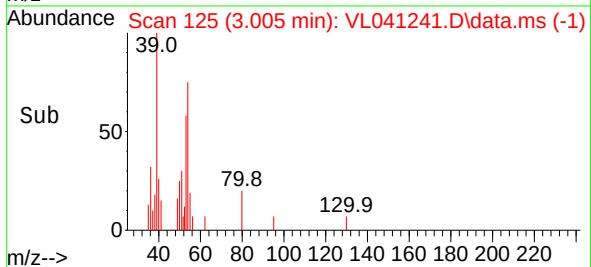
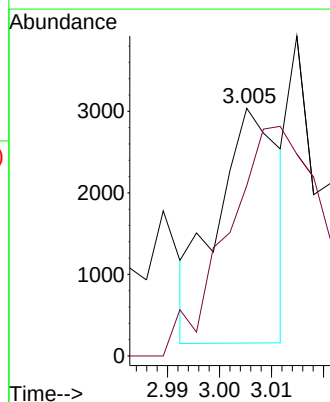
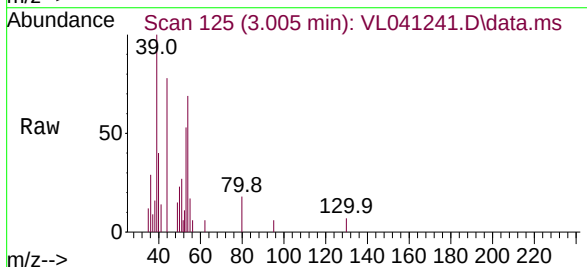
RT: 3.005 min Scan# 125

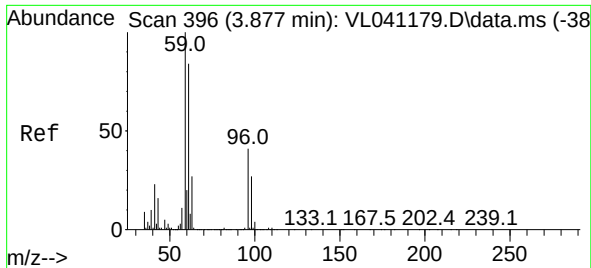
Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:	39	Resp:	2397
Ion	Ratio	Lower	Upper
39	100		
54	0.0	62.2	93.4#





#18

1,1-Dichloroethene

Concen: 0.056 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

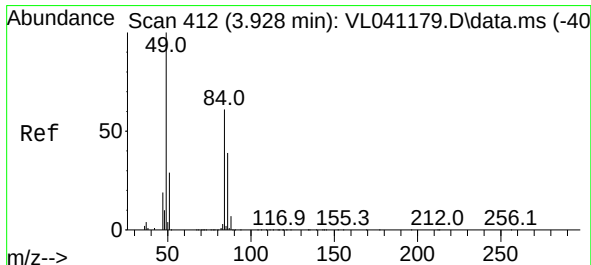
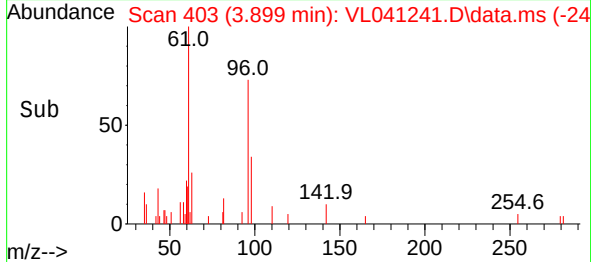
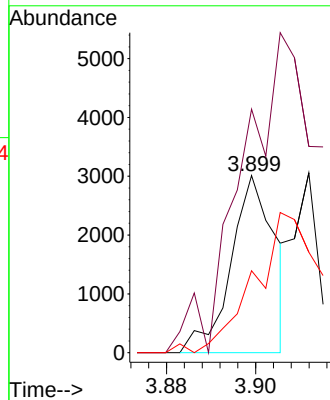
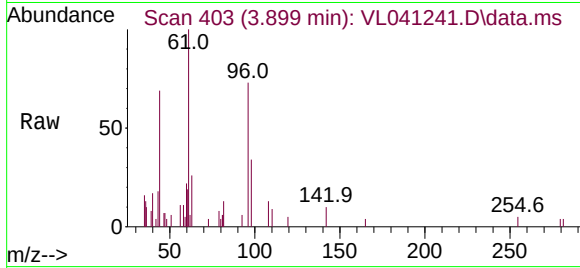
Tgt Ion: 96 Resp: 2066

Ion Ratio Lower Upper

96 100

61 125.6 164.4 246.6#

98 41.3 51.8 77.8#



#20

Methylene Chloride

Concen: 0.130 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 84 Resp: 4321

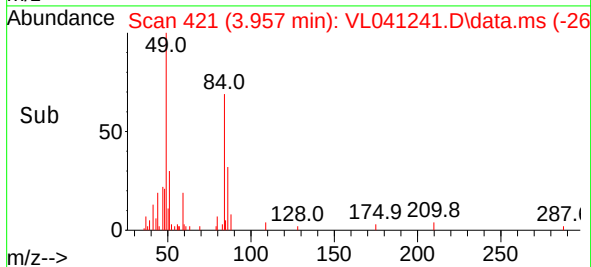
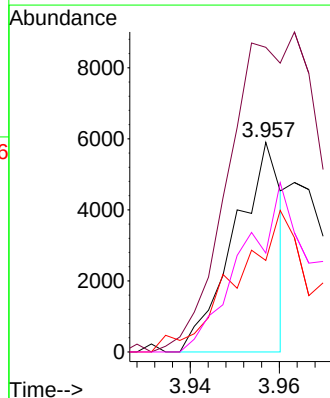
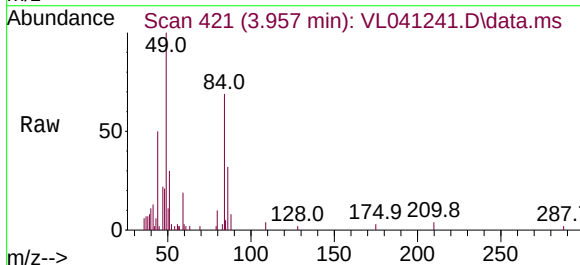
Ion Ratio Lower Upper

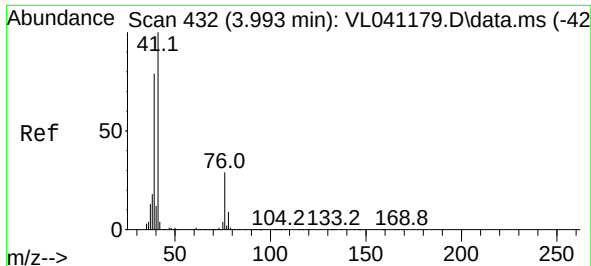
84 100

49 128.9 130.4 195.6#

51 35.6 38.0 57.0#

86 44.0 50.3 75.5#





#21

Allyl Chloride

Concen: 0.085 ppbv

RT: 4.021 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

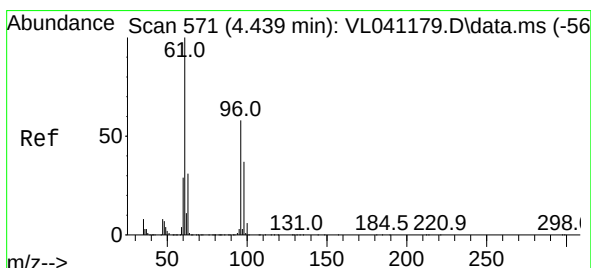
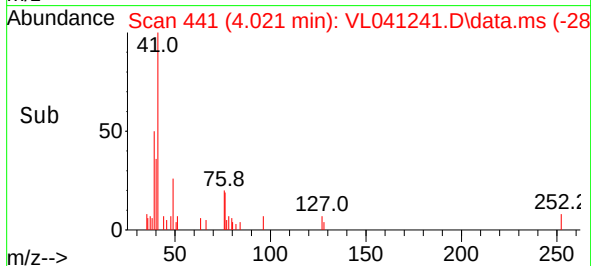
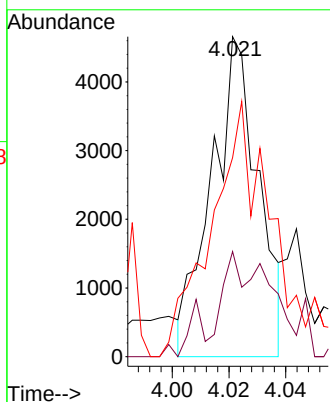
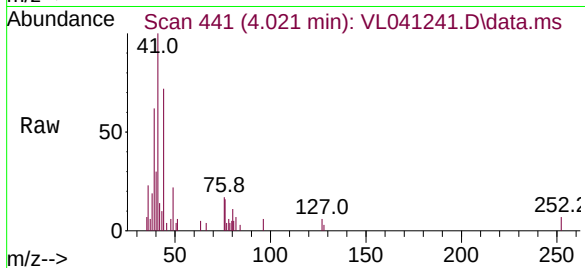
Tgt Ion: 41 Resp: 5320

Ion Ratio Lower Upper

41 100

76 42.9 23.7 35.5#

39 112.6 64.7 97.1#



#22

trans-1,2-Dichloroethene

Concen: 0.067 ppbv

RT: 4.471 min Scan# 581

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

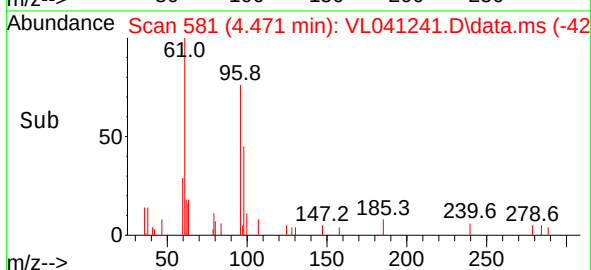
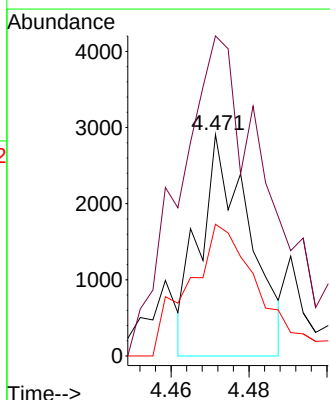
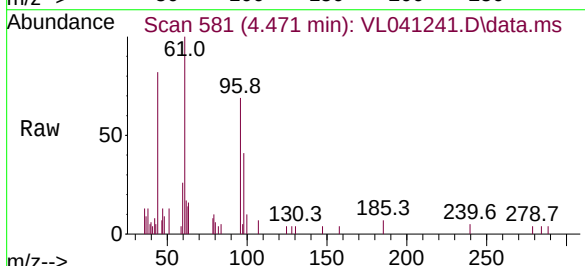
Tgt Ion: 96 Resp: 2567

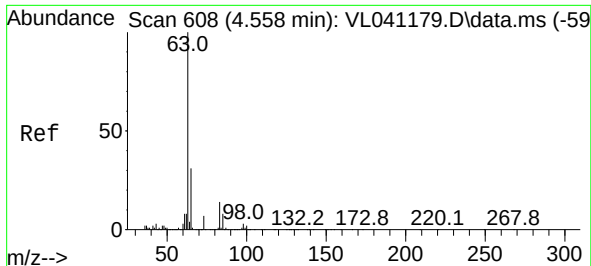
Ion Ratio Lower Upper

96 100

61 101.2 137.6 206.4#

98 48.0 50.6 76.0#





#24

1,1-Dichloroethane

Concen: 0.077 ppbv

RT: 4.590 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

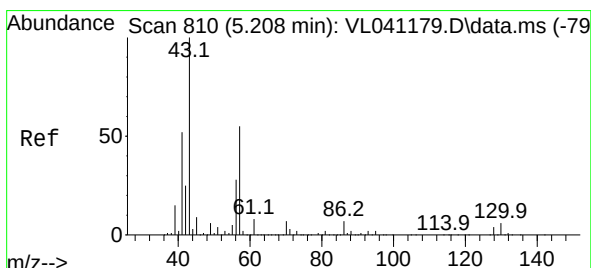
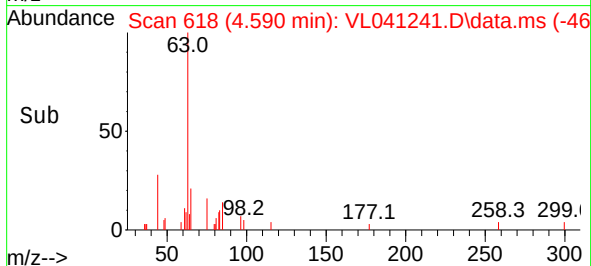
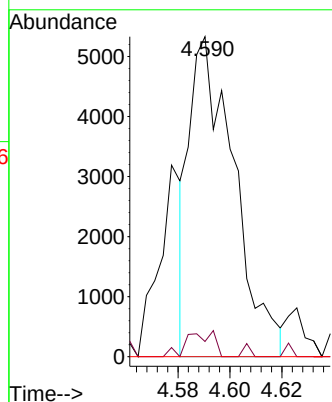
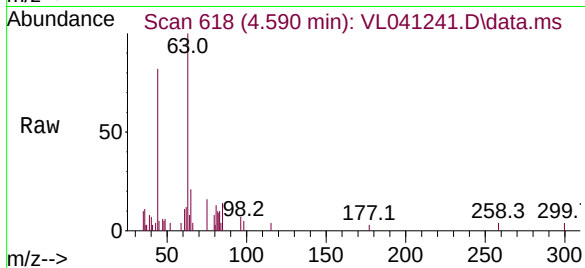
Tgt Ion: 63 Resp: 6315

Ion Ratio Lower Upper

63 100

98 5.2 1.6 4.8#

100 0.0 1.1 3.5#



#26

Hexane

Concen: 0.047 ppbv

RT: 5.233 min Scan# 818

Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 57 Resp: 4031

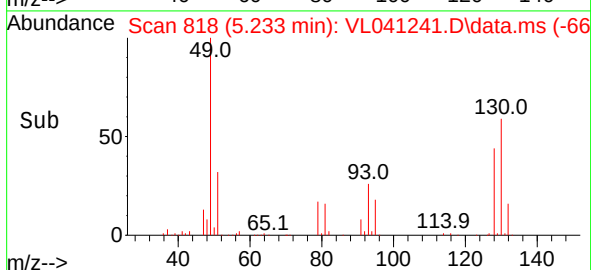
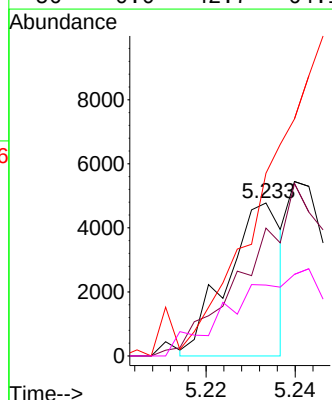
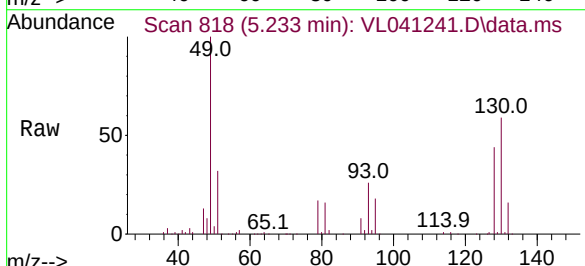
Ion Ratio Lower Upper

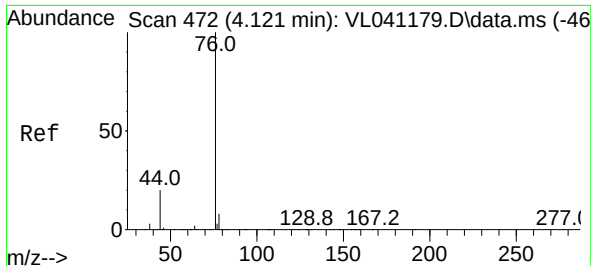
57 100

41 0.0 75.8 113.8#

43 0.0 187.0 280.4#

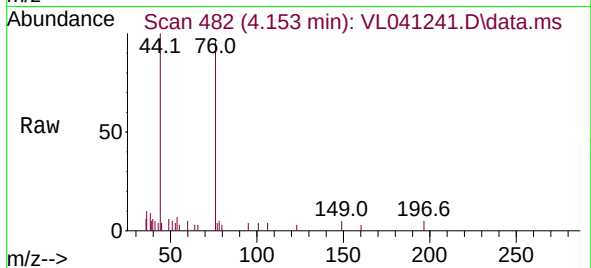
56 0.0 42.7 64.1#



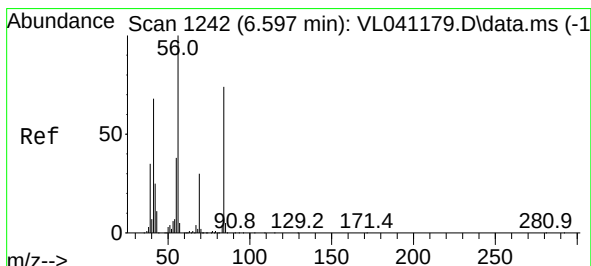
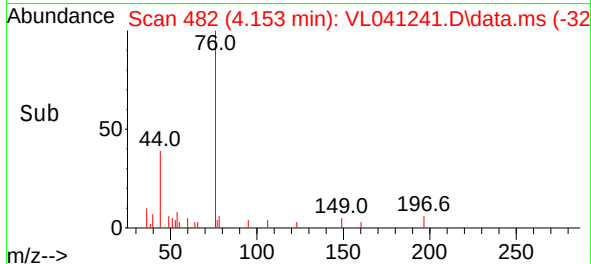
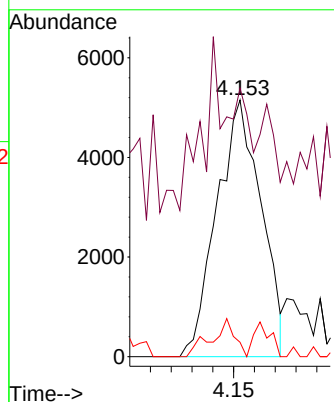


#27
Carbon Disulfide
Concen: 0.075 ppbv
RT: 4.153 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Instrument :
MSVOA_L
ClientSampleId :

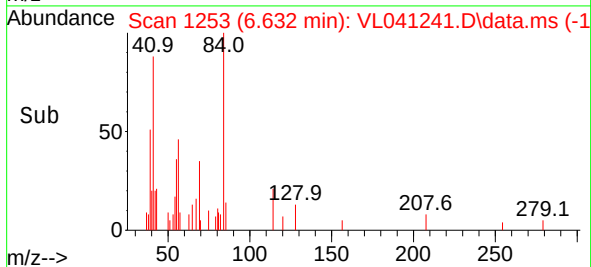
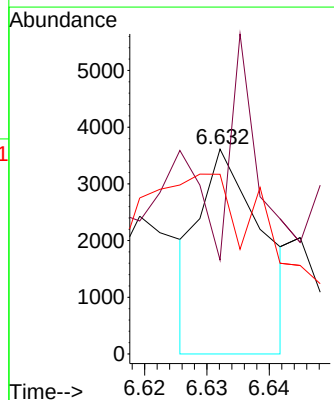
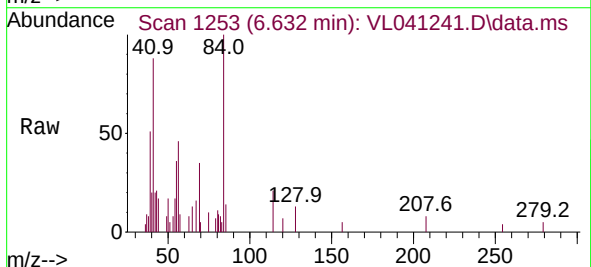


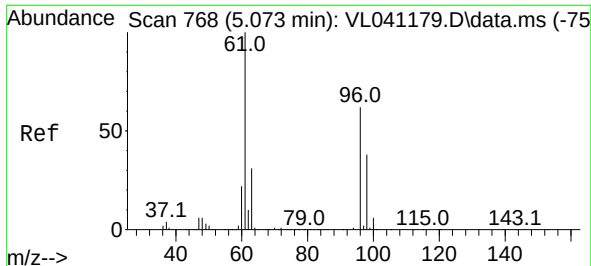
Tgt Ion: 76 Resp: 7634
Ion Ratio Lower Upper
76 100
44 91.4 16.3 24.5#
78 13.3 7.3 10.9#



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 84 Resp: 2507
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 266.1 73.8 110.8#

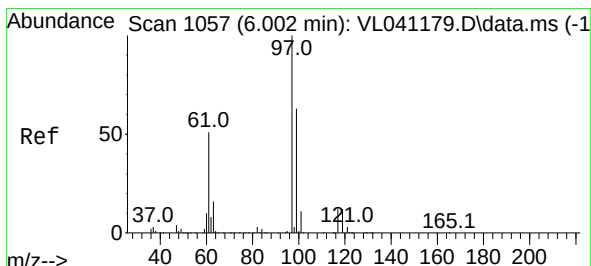
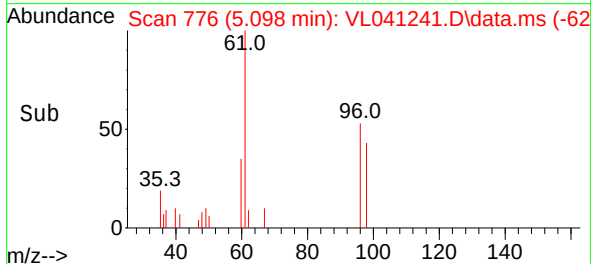
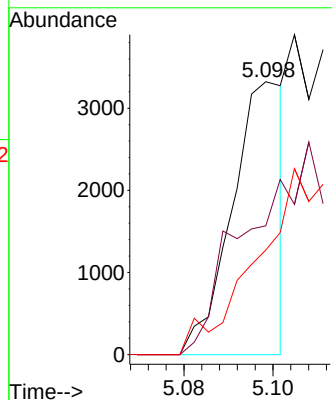
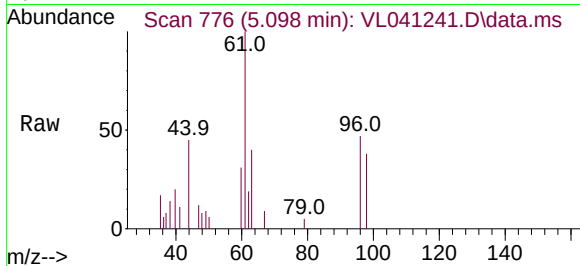




#31
 cis-1,2-Dichloroethene
 Concen: 0.034 ppbv
 RT: 5.098 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

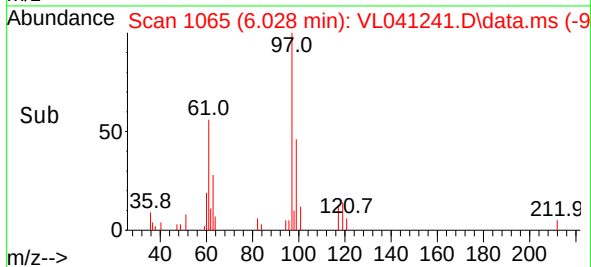
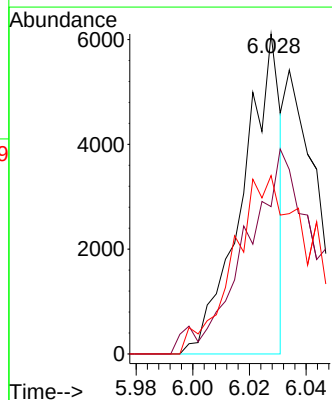
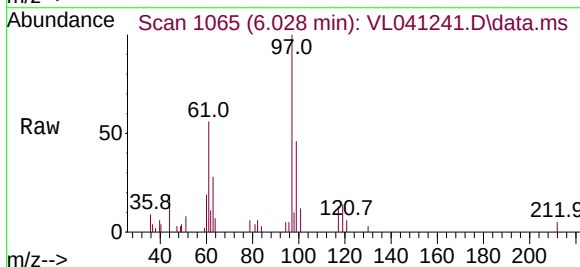
Instrument :
 MSVOA_L
 ClientSampleId :

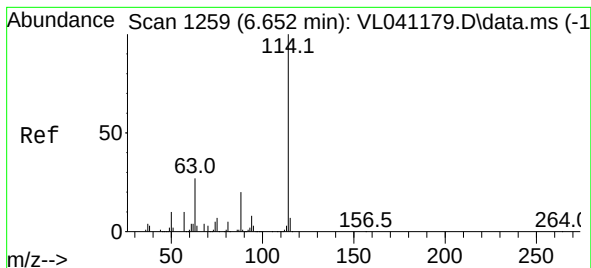
Tgt Ion: 61 Resp: 2685
 Ion Ratio Lower Upper
 61 100
 96 47.2 49.8 74.6#
 98 38.3 30.0 45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.048 ppbv
 RT: 6.028 min Scan# 1065
 Delta R.T. 0.006 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Tgt Ion: 97 Resp: 5676
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.7 77.5#
 61 119.6 41.1 61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.680 min Scan# 1217

Delta R.T. 0.006 min

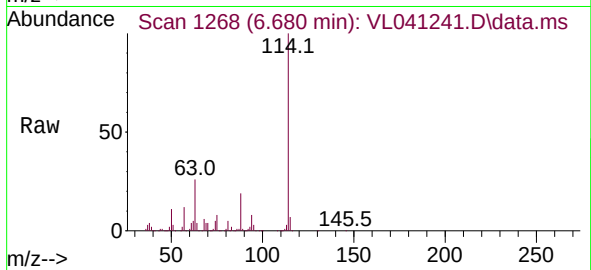
Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :



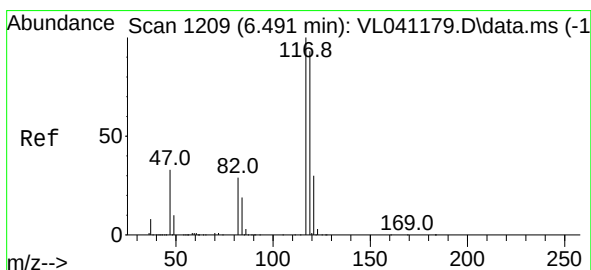
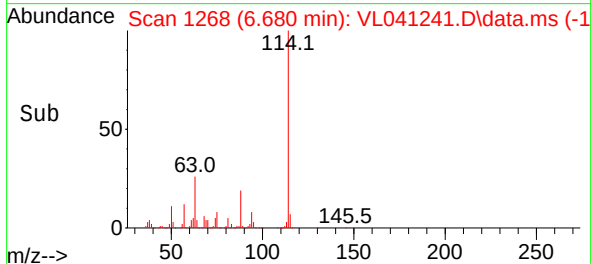
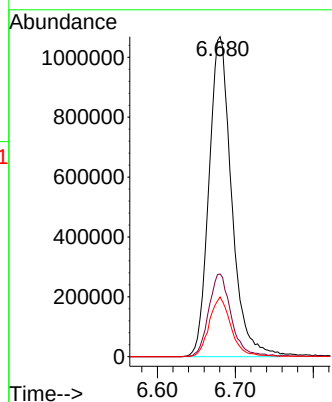
Tgt Ion:114 Resp: 2161532

Ion Ratio Lower Upper

114 100

63 26.2 21.8 32.6

88 18.2 15.2 22.8



#35

Carbon Tetrachloride

Concen: 0.045 ppbv

RT: 6.516 min Scan# 1217

Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

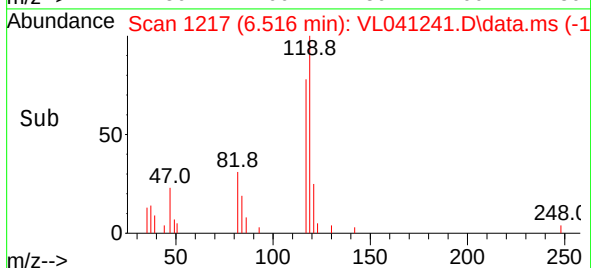
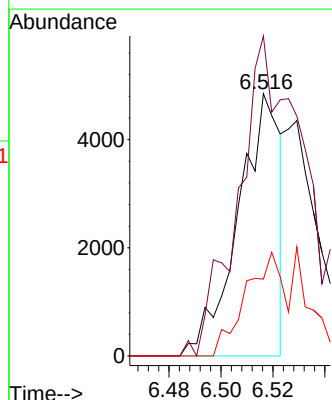
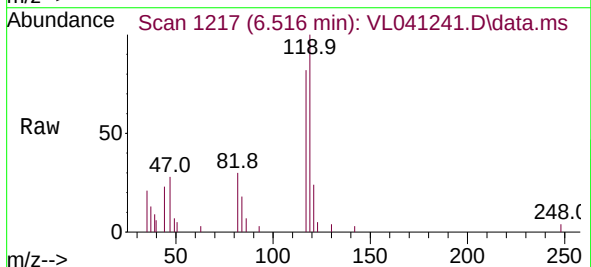
Tgt Ion:117 Resp: 5424

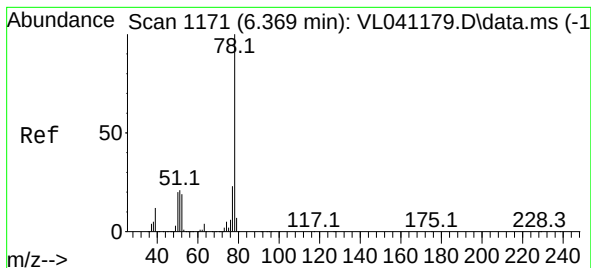
Ion Ratio Lower Upper

117 100

119 122.1 74.3 111.5#

121 29.3 23.8 35.8





#36

Benzene

Concen: 0.060 ppbv

RT: 6.397 min Scan# 1171

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

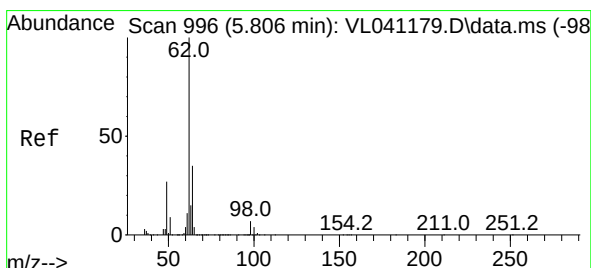
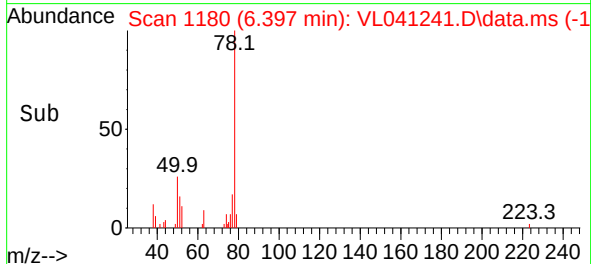
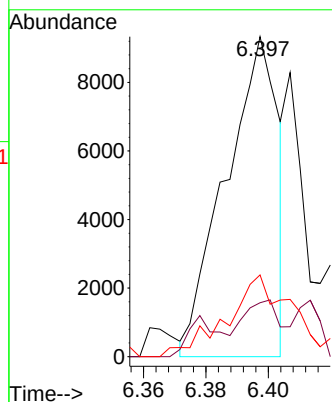
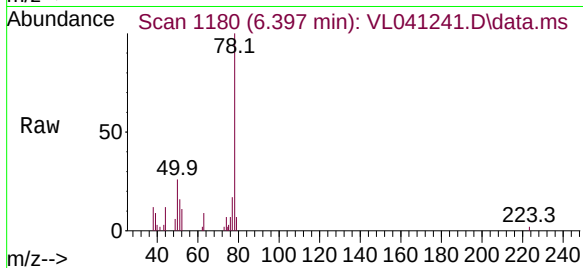
Tgt Ion: 78 Resp: 10865

Ion Ratio Lower Upper

78 100

77 16.2 18.3 27.5#

50 25.3 15.9 23.9#



#37

1,2-Dichloroethane

Concen: 0.049 ppbv

RT: 5.835 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VL041241.D

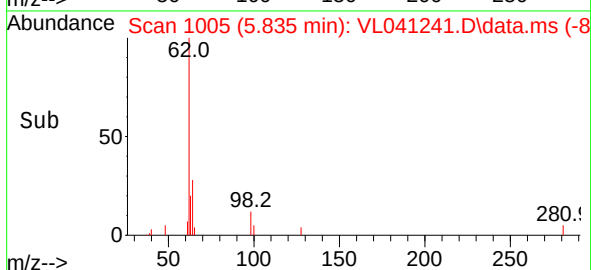
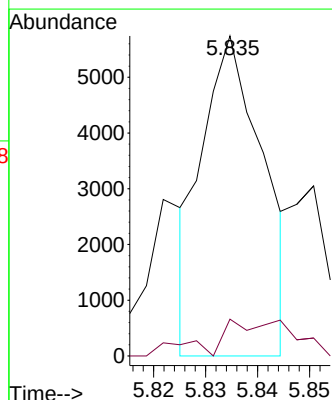
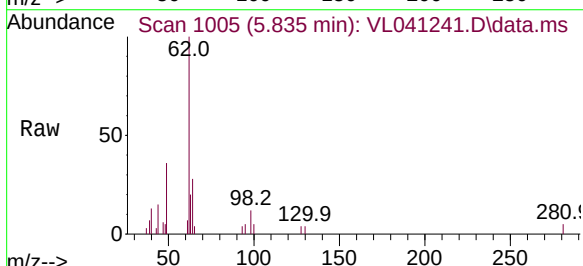
Acq: 8 May 2024 13:13

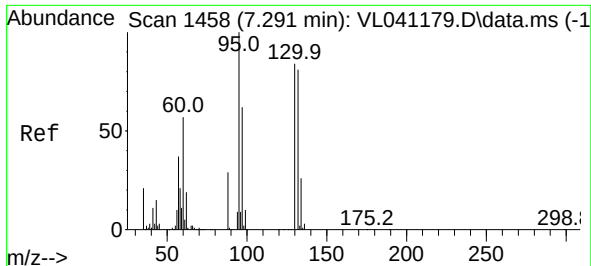
Tgt Ion: 62 Resp: 4676

Ion Ratio Lower Upper

62 100

98 15.8 5.0 7.4#





#38

Trichloroethene

Concen: 0.062 ppbv

RT: 7.323 min Scan# 1458

Delta R.T. 0.013 min

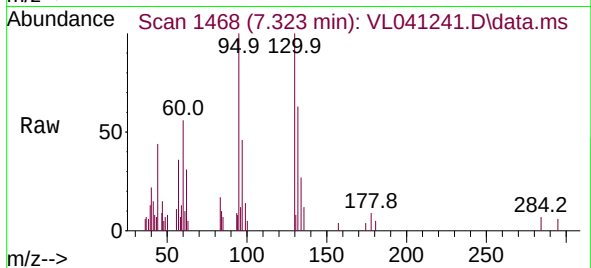
Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 4180

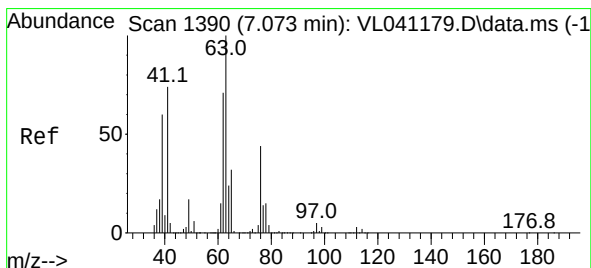
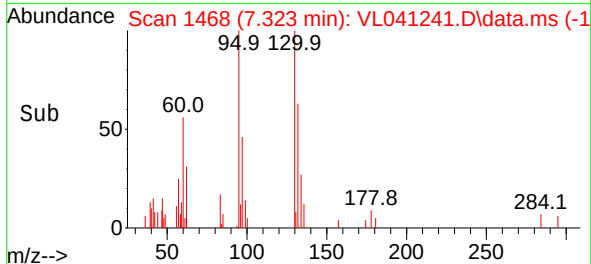
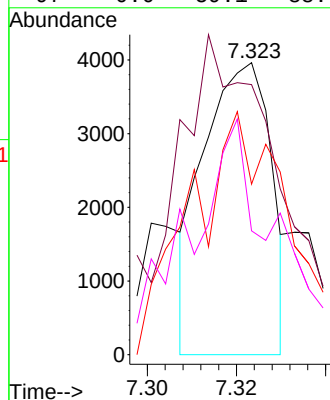
Ion Ratio Lower Upper

130 100

95 60.7 95.0 142.6#

132 25.1 77.0 115.4#

97 0.0 59.1 88.7#



#39

1,2-Dichloropropane

Concen: 7.846 ppbv

RT: 6.680 min Scan# 1268

Delta R.T. -0.412 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

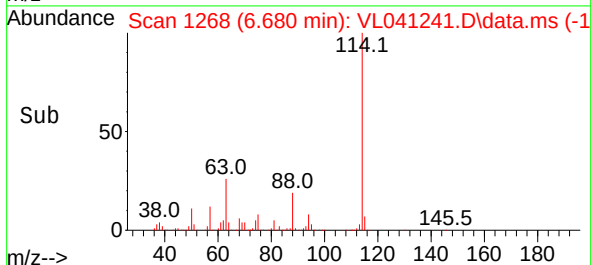
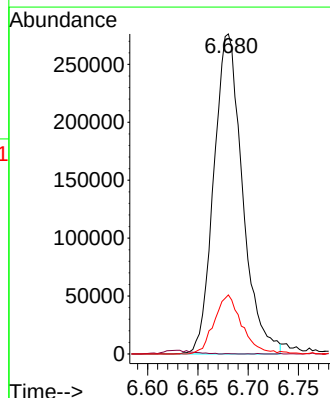
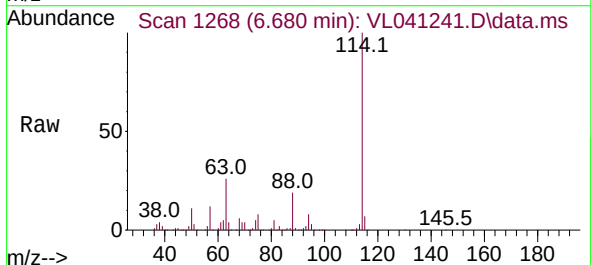
Tgt Ion: 63 Resp: 548457

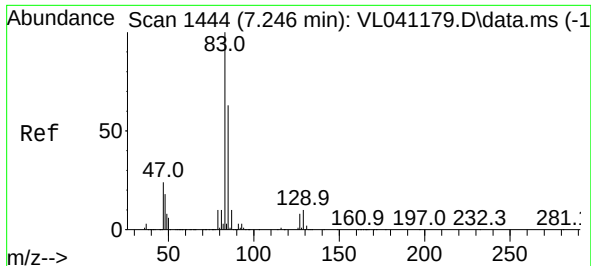
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 18.3 56.8 85.2#





#42

Bromodichloromethane

Concen: 0.077 ppbv

RT: 7.275 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

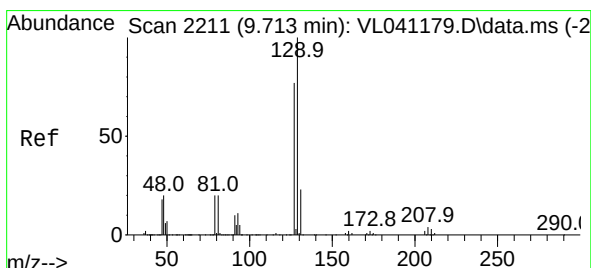
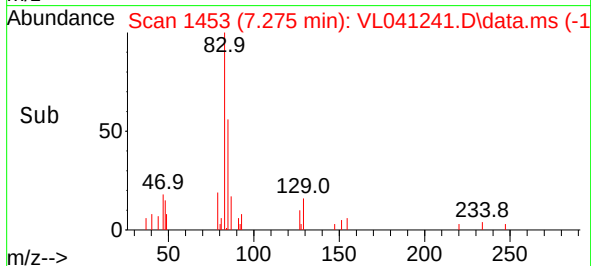
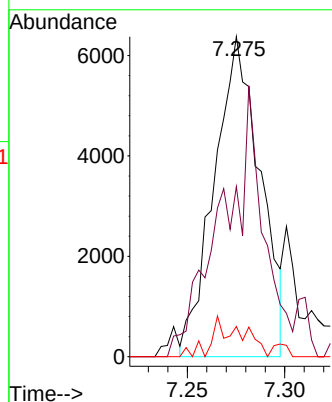
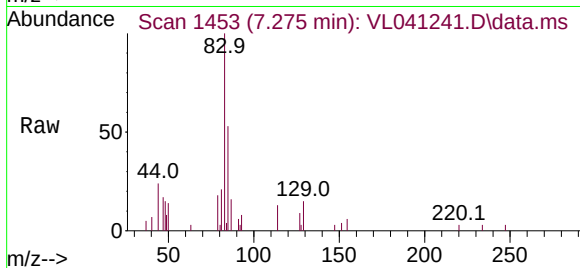
Tgt Ion: 83 Resp: 10465

Ion Ratio Lower Upper

83 100

85 47.8 50.6 75.8#

127 12.5 6.2 9.4#



#48

Dibromochloromethane

Concen: 0.060 ppbv

RT: 9.735 min Scan# 2218

Delta R.T. 0.003 min

Lab File: VL041241.D

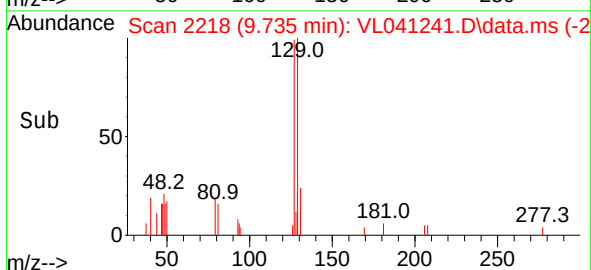
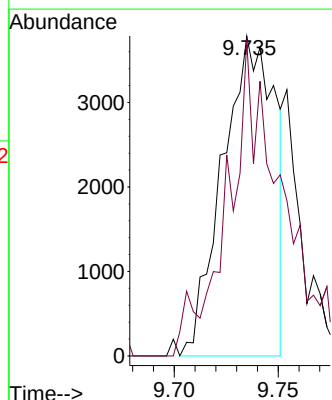
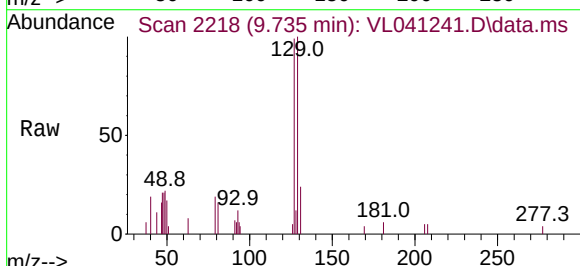
Acq: 8 May 2024 13:13

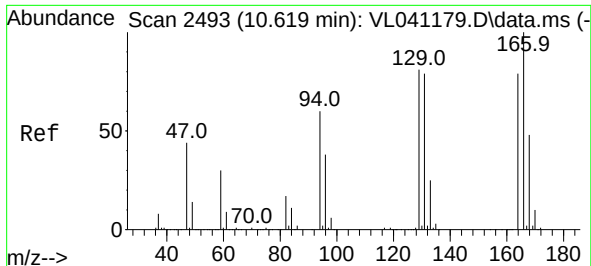
Tgt Ion: 129 Resp: 6635

Ion Ratio Lower Upper

129 100

127 100.7 39.1 117.5





#52

Tetrachloroethene

Concen: 0.062 ppbv

RT: 10.645 min Scan# 2493

Delta R.T. 0.009 min

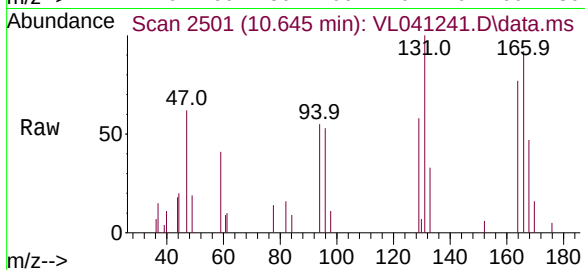
Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 3968

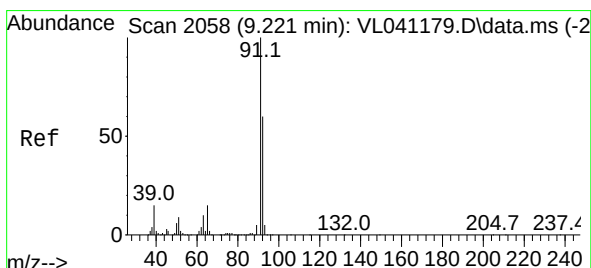
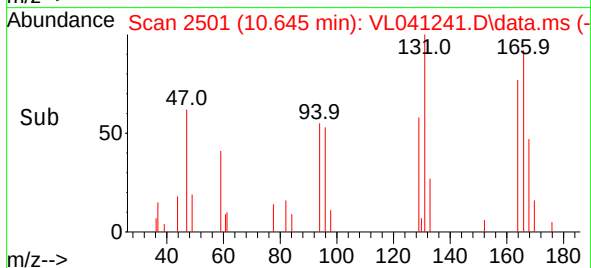
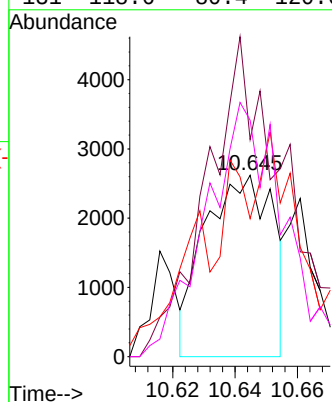
Ion Ratio Lower Upper

164 100

166 97.9 101.1 151.7#

129 37.2 81.7 122.5#

131 118.6 80.4 120.6



#53

Toluene

Concen: 0.051 ppbv

RT: 9.249 min Scan# 2067

Delta R.T. 0.009 min

Lab File: VL041241.D

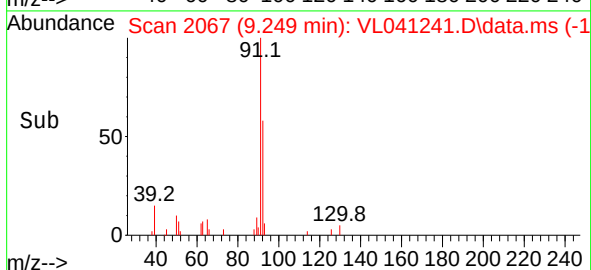
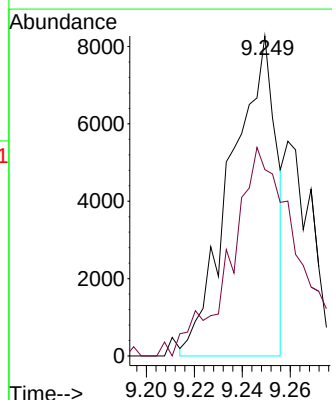
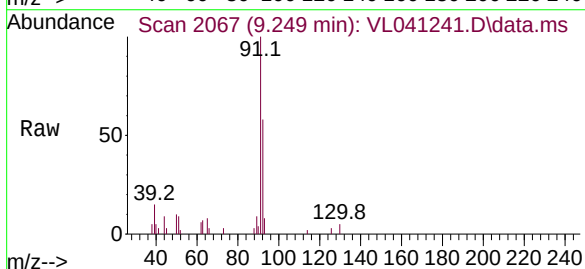
Acq: 8 May 2024 13:13

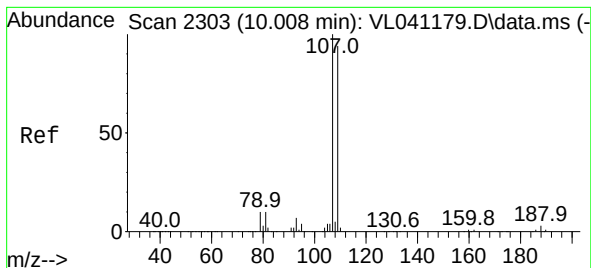
Tgt Ion: 91 Resp: 10795

Ion Ratio Lower Upper

91 100

92 98.9 48.2 72.4#





#54

1,2-Dibromoethane

Concen: 0.053 ppbv

RT: 10.040 min Scan# 21

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

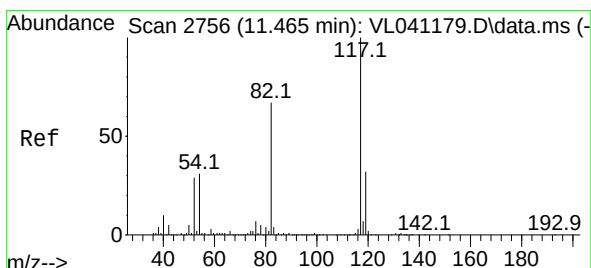
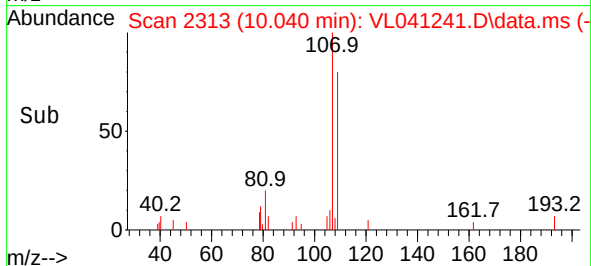
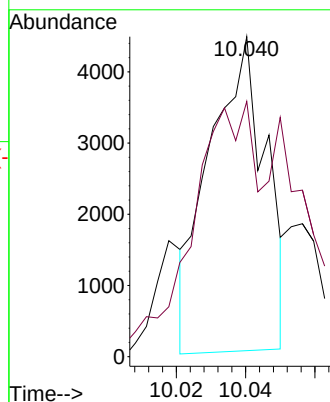
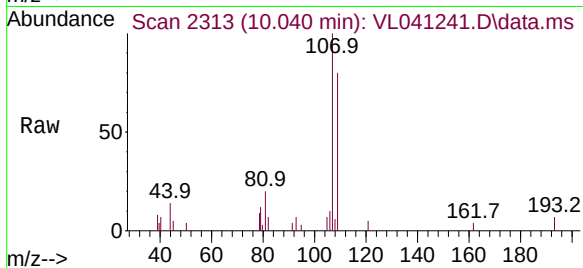
ClientSampleId :

Tgt Ion:107 Resp: 4980

Ion Ratio Lower Upper

107 100

109 75.7 75.2 112.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.497 min Scan# 2766

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

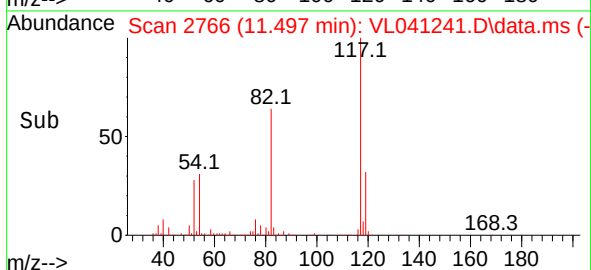
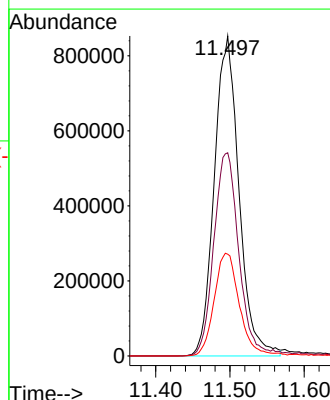
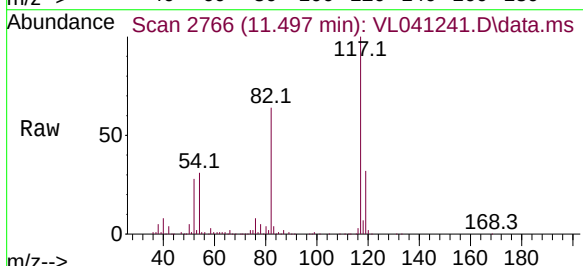
Tgt Ion:117 Resp: 1968339

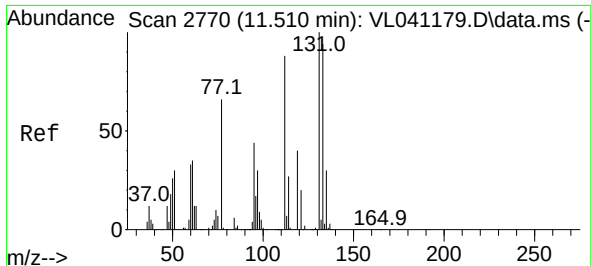
Ion Ratio Lower Upper

117 100

82 66.1 53.6 80.4

119 33.4 27.2 40.8

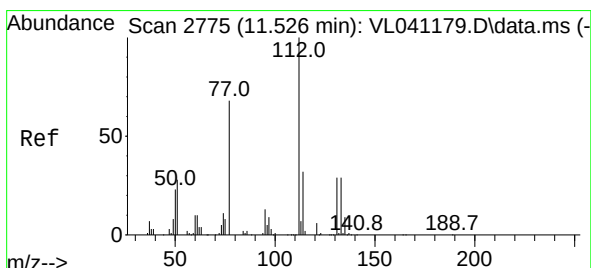
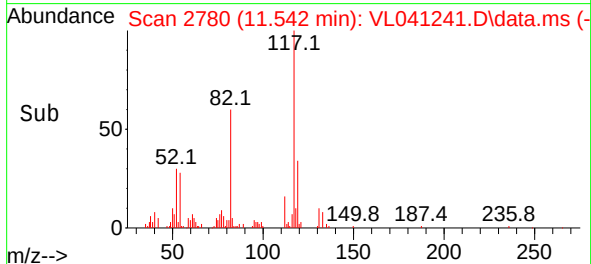
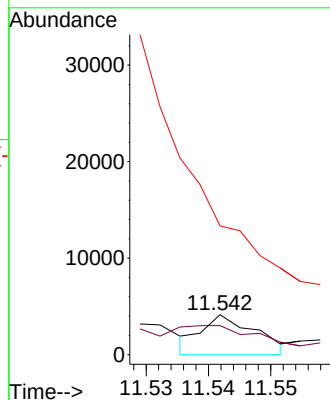
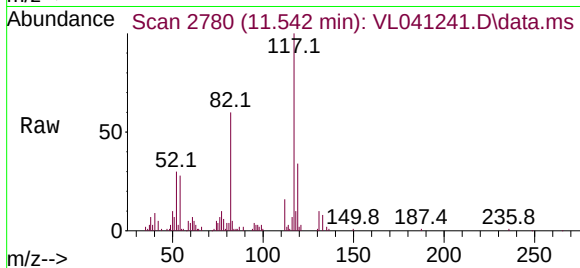




#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 11.542 min Scan# 2780
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

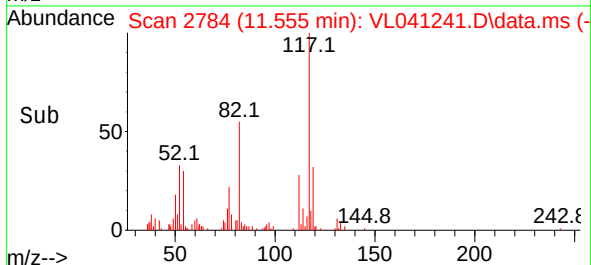
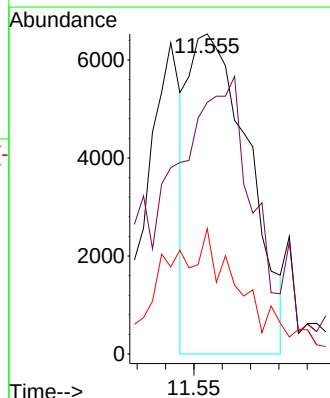
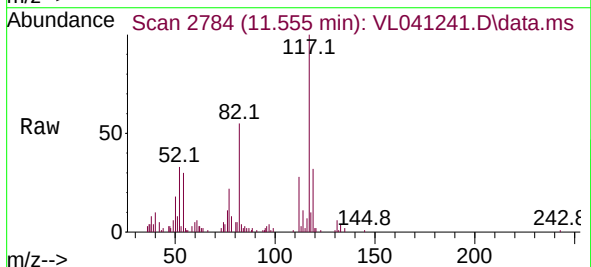
Instrument :
MSVOA_L
ClientSampleId :

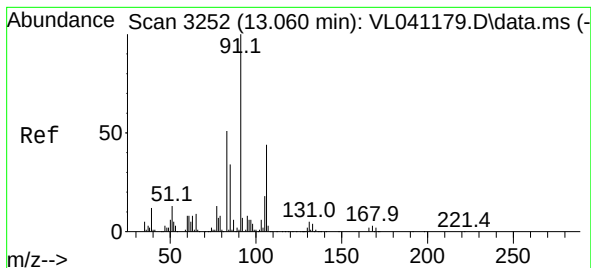
Tgt Ion:131 Resp: 2474
Ion Ratio Lower Upper
131 100
133 270.9 76.3 114.5#
119 0.0 49.4 74.2#



#57
Chlorobenzene
Concen: 0.067 ppbv
RT: 11.555 min Scan# 2784
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion:112 Resp: 9644
Ion Ratio Lower Upper
112 100
77 84.5 54.9 82.3#
114 41.5 28.7 35.1#





#60

o-Xylene

Concen: 0.058 ppbv

RT: 13.082 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

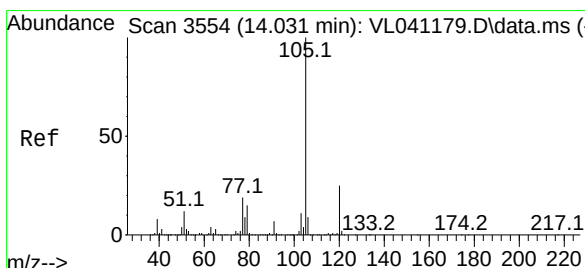
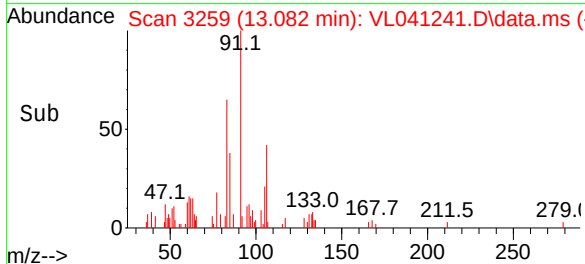
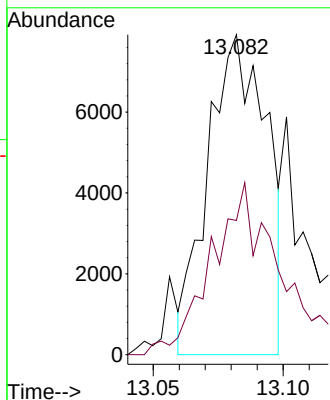
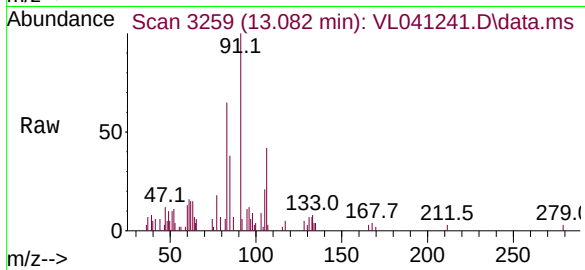
ClientSampleId :

Tgt Ion: 91 Resp: 12436

Ion Ratio Lower Upper

91 100

106 63.1 22.4 67.3



#62

Isopropylbenzene

Concen: 0.042 ppbv

RT: 14.063 min Scan# 3564

Delta R.T. 0.013 min

Lab File: VL041241.D

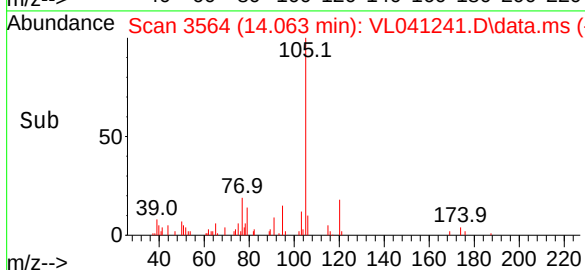
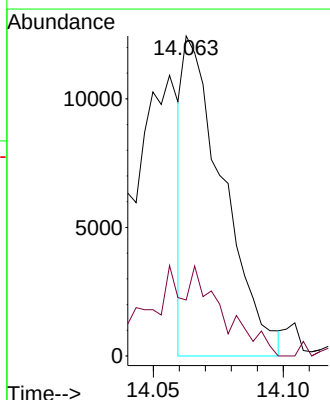
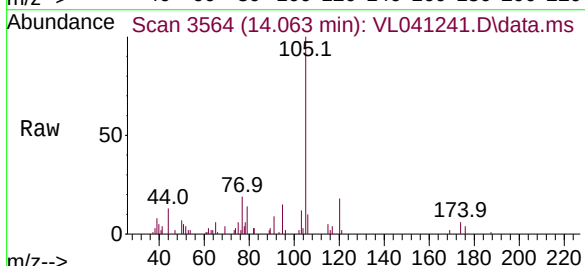
Acq: 8 May 2024 13:13

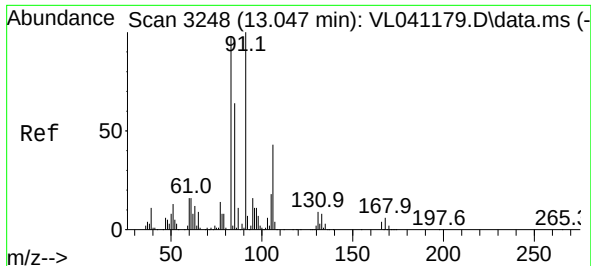
Tgt Ion:105 Resp: 13315

Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.2#

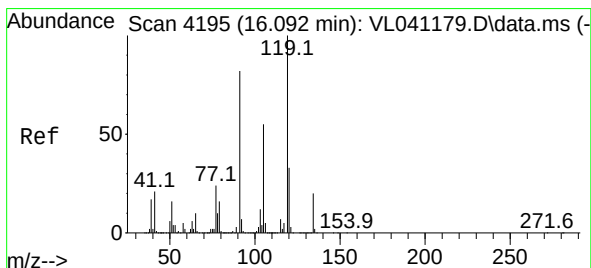
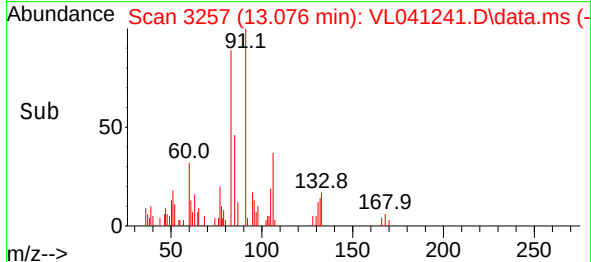
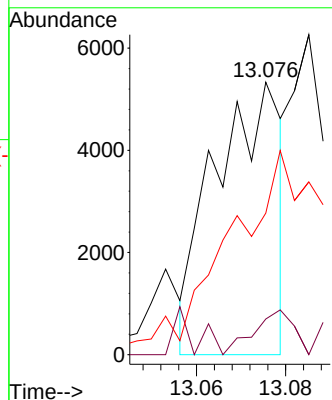
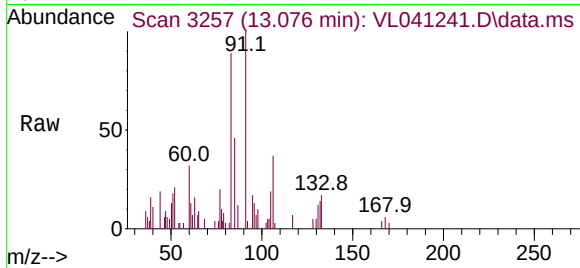




#63
1,1,2,2-Tetrachloroethane
Concen: 0.038 ppbv
RT: 13.076 min Scan# 31
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

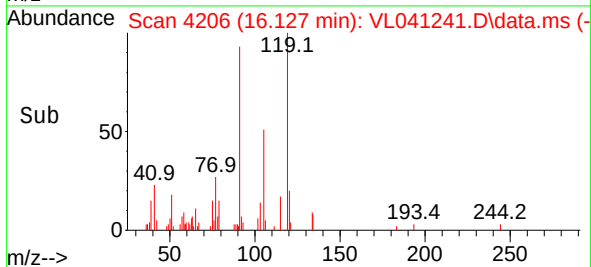
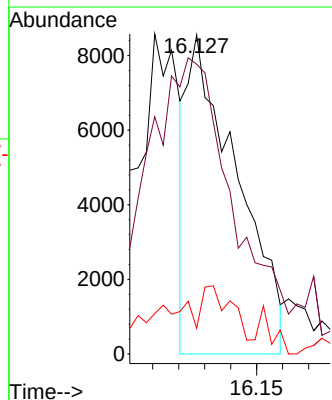
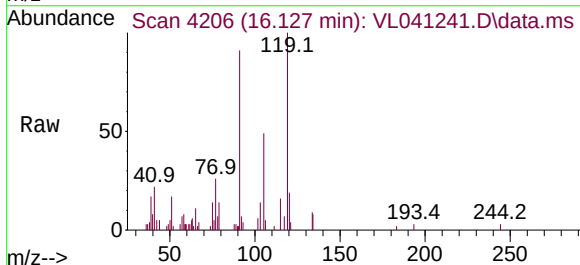
Instrument :
MSVOA_L
ClientSampleId :

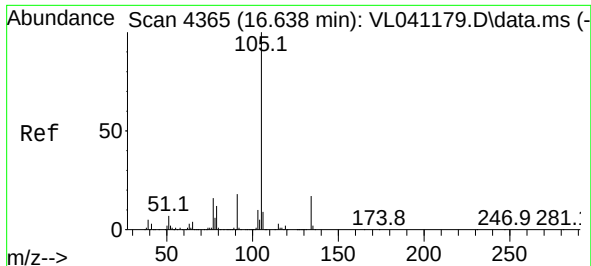
Tgt Ion: 83 Resp: 5487
Ion Ratio Lower Upper
83 100
131 0.0 4.5 13.5#
85 165.4 32.7 98.1#



#65
tert-Butylbenzene
Concen: 0.040 ppbv
RT: 16.127 min Scan# 4206
Delta R.T. 0.019 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 119 Resp: 11456
Ion Ratio Lower Upper
119 100
91 187.6 67.0 100.4#
134 40.2 15.2 22.8#





#67

sec-Butylbenzene

Concen: 0.043 ppbv

RT: 16.664 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

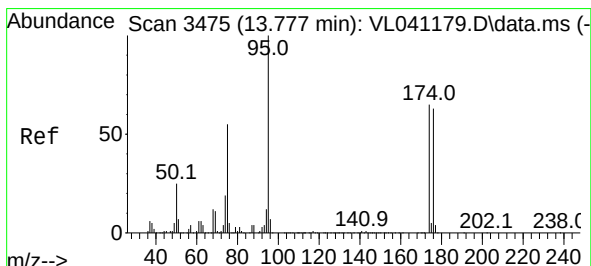
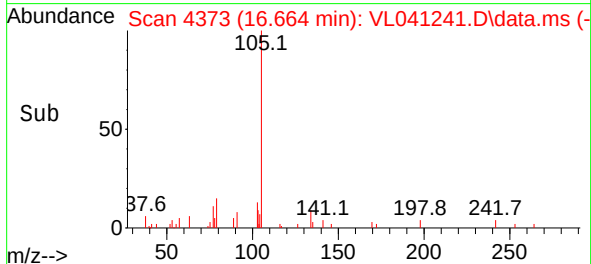
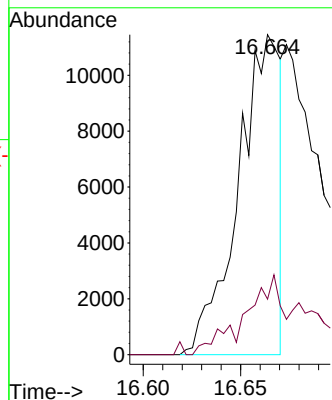
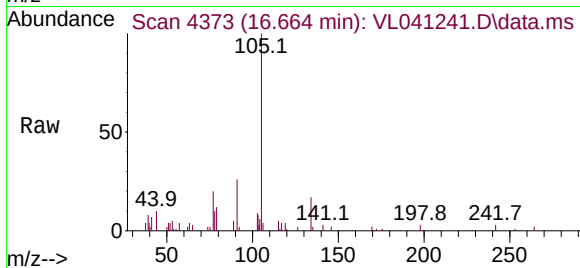
ClientSampleId :

Tgt Ion:105 Resp: 17164

Ion Ratio Lower Upper

105 100

134 39.5 13.8 20.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.274 ppbv

RT: 13.805 min Scan# 3484

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

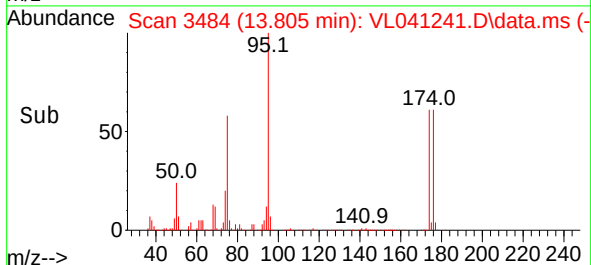
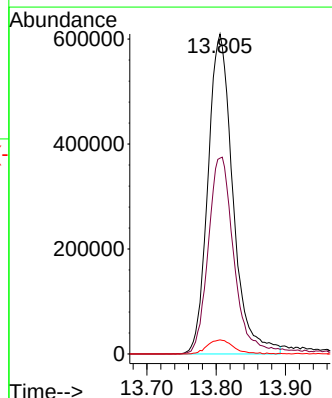
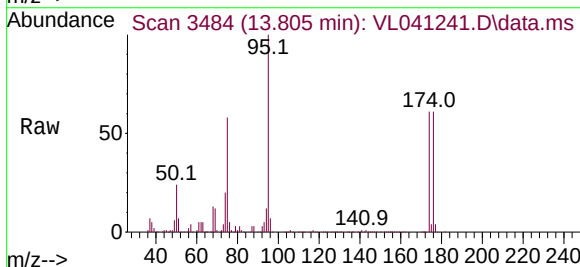
Tgt Ion: 95 Resp: 1526641

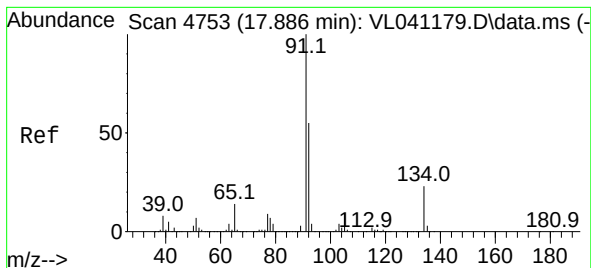
Ion Ratio Lower Upper

95 100

174 64.1 53.6 80.4

175 4.7 4.2 6.4





#70

n-Butylbenzene

Concen: 0.049 ppbv

RT: 17.924 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

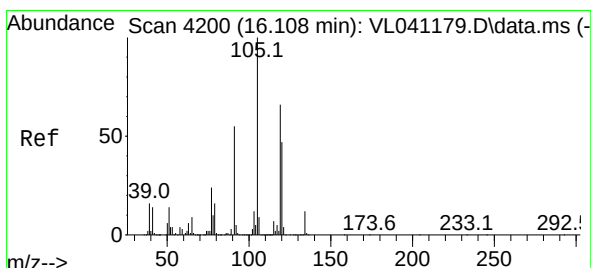
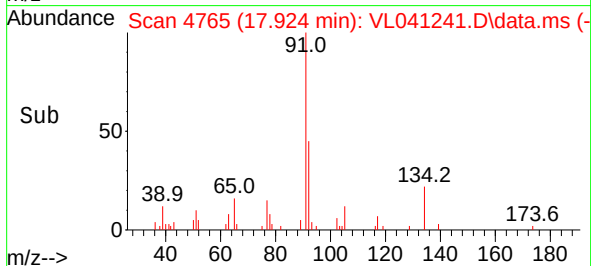
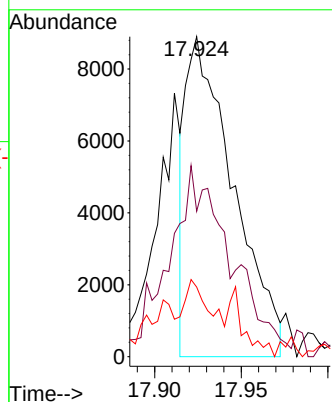
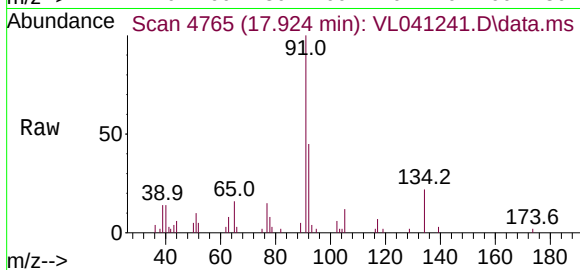
Tgt Ion: 91 Resp: 17065

Ion Ratio Lower Upper

91 100

92 79.8 43.3 64.9#

134 31.7 17.8 26.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.038 ppbv

RT: 16.137 min Scan# 4209

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:105 Resp: 9100

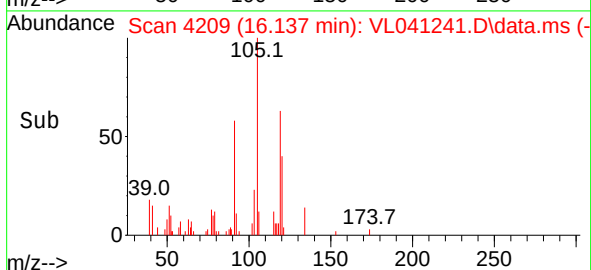
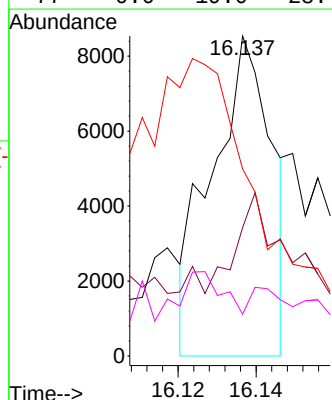
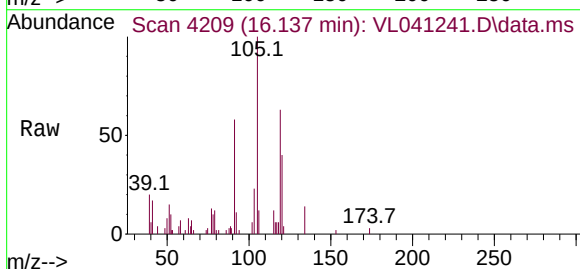
Ion Ratio Lower Upper

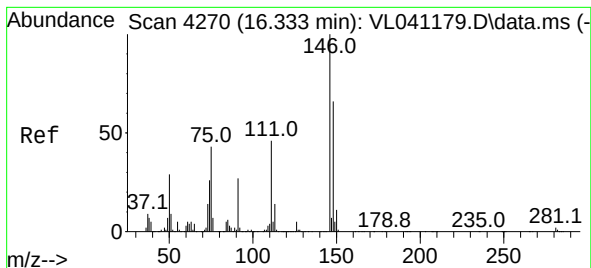
105 100

120 28.2 37.8 56.6#

91 30.5 44.3 66.5#

77 0.0 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 0.036 ppbv

RT: 16.368 min Scan# 4325

Delta R.T. 0.019 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Instrument :

MSVOA_L

ClientSampleId :

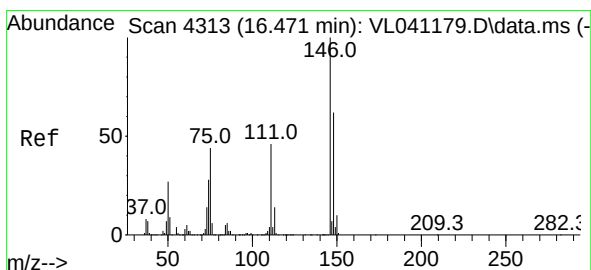
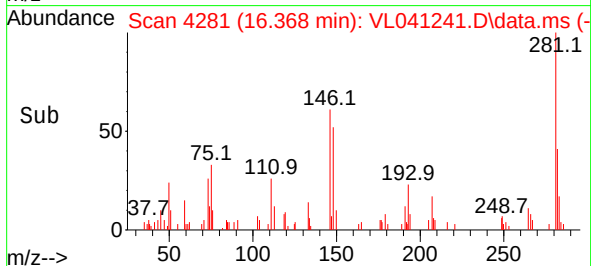
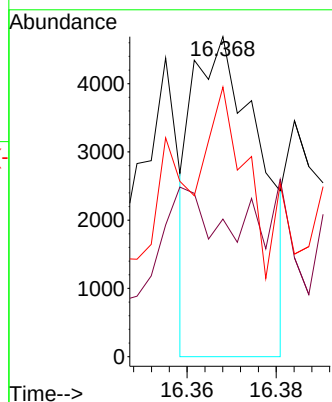
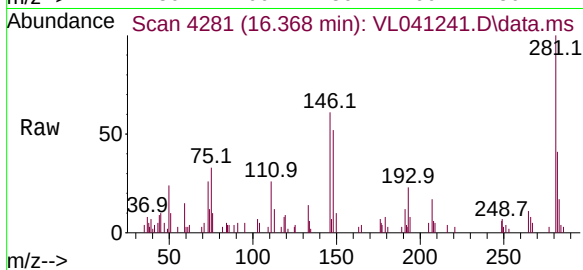
Tgt Ion:146 Resp: 4926

Ion Ratio Lower Upper

146 100

111 0.0 23.7 71.1#

148 200.9 32.5 97.4#



#76

1,4-Dichlorobenzene

Concen: 0.043 ppbv

RT: 16.509 min Scan# 4325

Delta R.T. 0.016 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:146 Resp: 5589

Ion Ratio Lower Upper

146 100

111 0.0 23.3 69.8#

148 166.0 32.6 97.7#

