

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW060424\
 Data File : VW028993.D
 Acq On : 04 Jun 2024 14:29
 Operator : SY/MD
 Sample : P2710-18DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 05 00:49:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060324SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jun 05 00:46:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	365665	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	336320	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	157766	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	123385	21.240	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.960%
7) Chloroethane-d5	2.899	69	94525	21.190	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.760%
11) 1,1-Dichloroethene-d2	4.021	65	55910	21.898	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.600%
21) 2-Butanone-d5	7.075	46	65142	54.885	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.760%
24) Chloroform-d	7.648	84	241425	23.143	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.560%
26) 1,2-Dichloroethane-d4	8.301	65	127528	23.220	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.880%
32) Benzene-d6	8.276	84	462647	22.412	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.640%
36) 1,2-Dichloropropane-d6	9.270	67	140464	22.443	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.760%
41) Toluene-d8	10.319	98	419549	22.776	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.120%
43) trans-1,3-Dichloroprop...	10.575	79	55900	23.244	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.960%
47) 2-Hexanone-d5	10.922	63	44855	54.309	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.620%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	109997	25.298	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	13.848	152	129422	23.117	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.480%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.039	96	79040	17.101	ug/L	83
13) Acetone	4.118	43	82716	66.502	ug/L	100
16) Methylene chloride	4.917	84	111542	20.325	ug/L	97
17) trans-1,2-Dichloroethene	5.429	96	190190	37.740	ug/L	97
18) Methyl tert-butyl Ether	5.429	73	167708	23.865	ug/L	98
19) 1,1-Dichloroethane	6.216	63	263825	26.628	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	197807	37.441	ug/L	99
22) 2-Butanone	7.167	43	75398	50.306	ug/L	98
25) Chloroform	7.679	83	402193	41.795	ug/L	96
27) 1,2-Dichloroethane	8.398	62	72093	11.179	ug/L	97
31) Carbon tetrachloride	8.075	117	44510	6.271	ug/L	97
33) Benzene	8.325	78	601631	28.769	ug/L	100
34) Trichloroethene	9.087	95	224309	40.799	ug/L	94
37) 1,2-Dichloropropane	9.368	63	115142	21.026	ug/L	100
38) Bromodichloromethane	9.642	83	185827	27.823	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	256831	32.271	ug/L	96
40) 4-Methyl-2-pentanone	10.209	43	334004	119.910	ug/L	99
42) Toluene	10.386	91	732346	34.281	ug/L	96
44) trans-1,3-Dichloropropene	10.605	75	29887	4.658	ug/L	92

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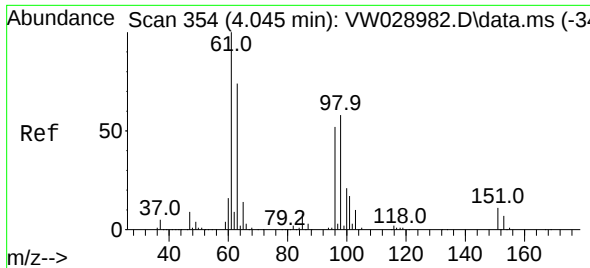
Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 05 00:49:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060324SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jun 05 00:46:16 2024
 Response via : Initial Calibration

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

45) 1,1,2-Trichloroethane	10.782	97	37890	10.245	ug/L	94
46) Tetrachloroethene	10.861	164	46074	11.030	ug/L	90
49) Dibromochloromethane	11.129	129	205545	52.617	ug/L	92
50) 1,2-Dibromoethane	11.233	107	43557	12.901	ug/L	93
53) m,p-Xylene	11.837	106	193116	21.480	ug/L	91
54) o-Xylene	12.160	106	87121	10.465	ug/L	97
55) Styrene	12.178	104	144781	10.088	ug/L	100
57) 1,1,2,2-Tetrachloroethane	12.708	83	188817	45.224	ug/L	99
59) Bromoform	12.343	173	71068	35.031	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	77190	8.045	ug/L	95
65) 1,4-Dichlorobenzene	13.574	146	190707	19.030	ug/L	91
68) 1,2-Dibromo-3-chloropr...	14.476	75	9679	15.259	ug/L	89
71) Naphthalene	15.360	128	310301	34.109	ug/L	96

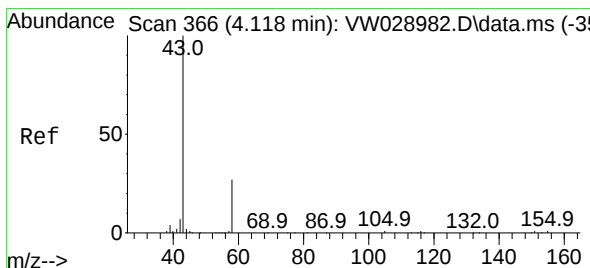
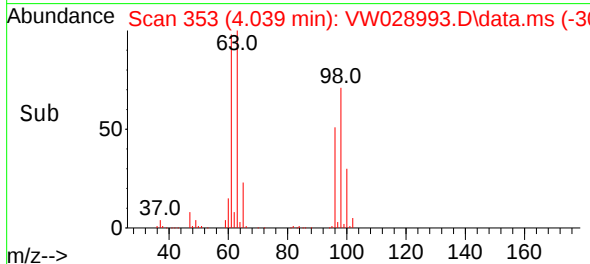
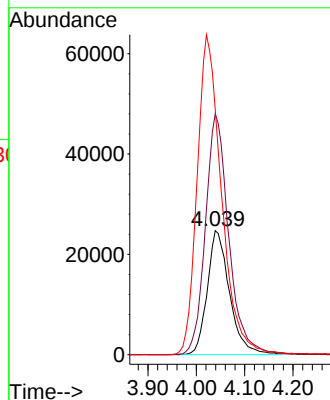
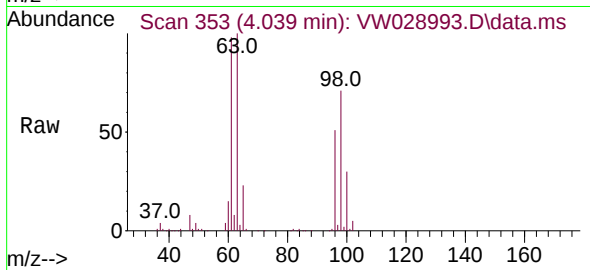
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#12
1,1-Dichloroethene
Concen: 17.101 ug/L
RT: 4.039 min Scan# 354
Delta R.T. -0.006 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

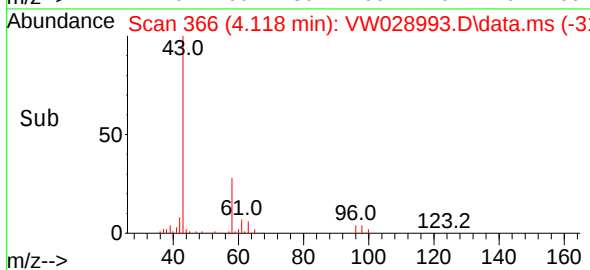
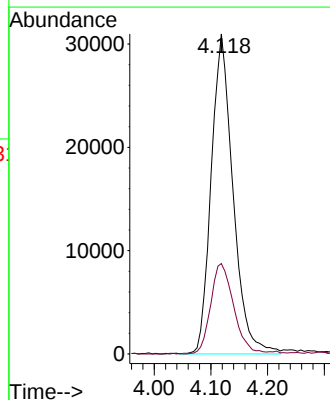
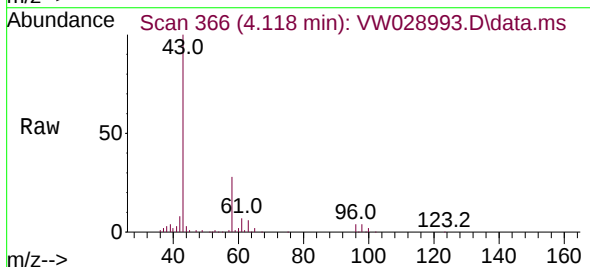
Instrument :
MSVOA_W
ClientSampleId :

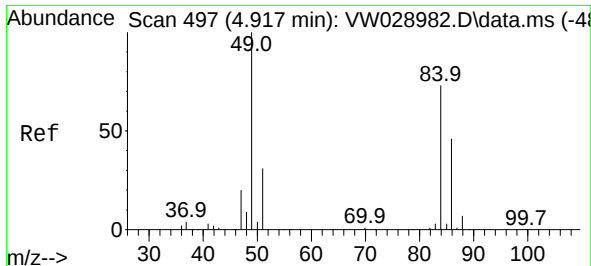
Tgt Ion: 96 Resp: 79040
Ion Ratio Lower Upper
96 100
61 194.2 132.2 245.4
63 197.8 108.4 201.2



#13
Acetone
Concen: 66.502 ug/L
RT: 4.118 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Tgt Ion: 43 Resp: 82716
Ion Ratio Lower Upper
43 100
58 29.7 0.0 59.4

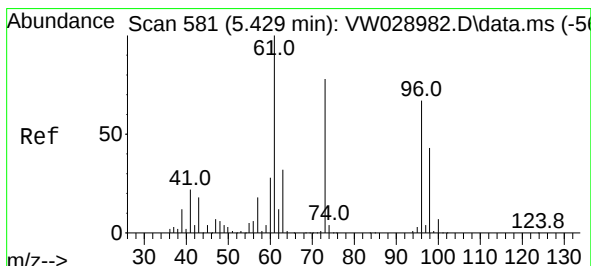
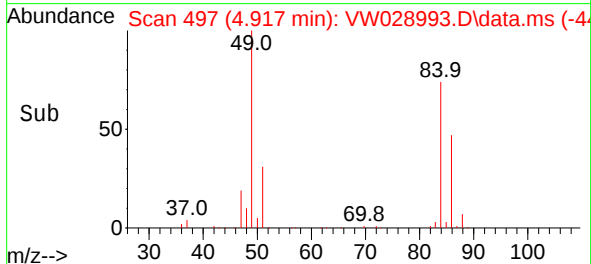
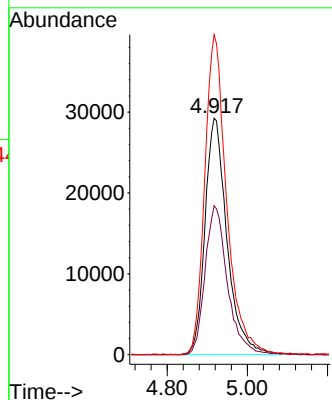
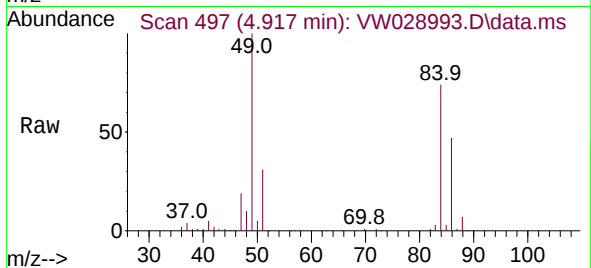




#16
Methylene chloride
Concen: 20.325 ug/L
RT: 4.917 min Scan# 497
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

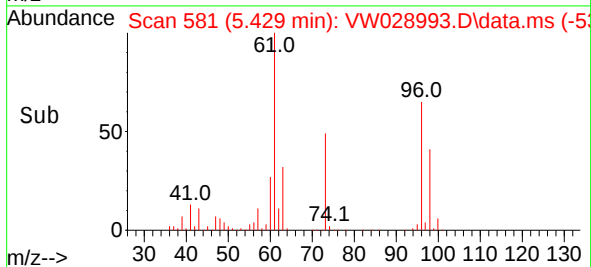
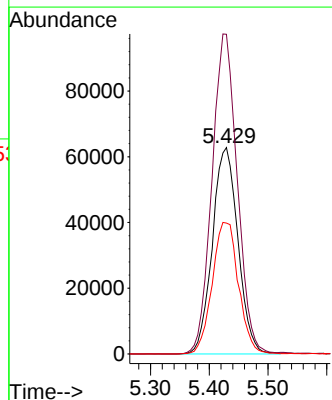
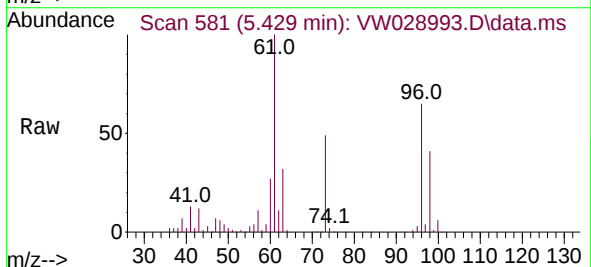
Instrument :
MSVOA_W
ClientSampleId :

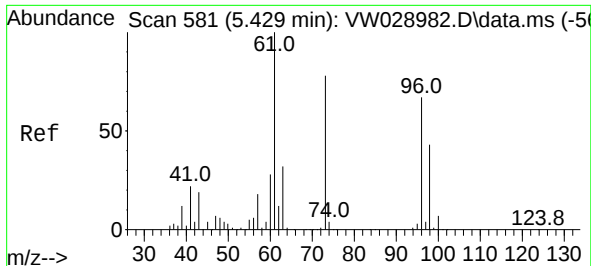
Tgt Ion: 84 Resp: 111542
Ion Ratio Lower Upper
84 100
86 63.0 43.8 81.4
49 135.3 91.3 169.5



#17
trans-1,2-Dichloroethene
Concen: 37.740 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

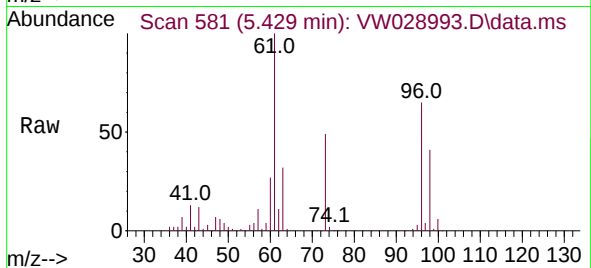
Tgt Ion: 96 Resp: 190190
Ion Ratio Lower Upper
96 100
61 154.9 104.6 194.2
98 63.4 44.0 81.8



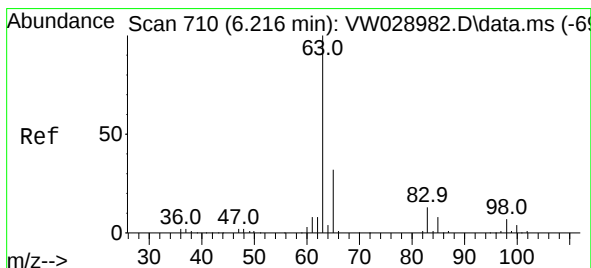
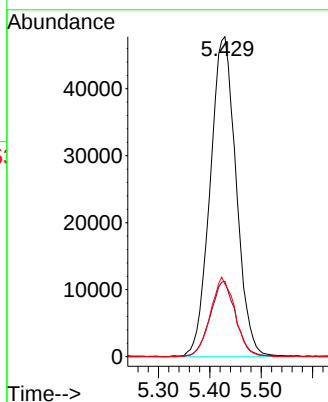
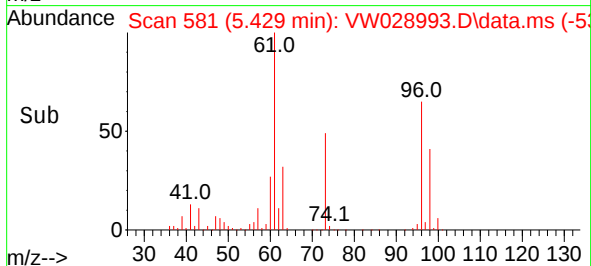


#18
Methyl tert-butyl Ether
Concen: 23.865 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

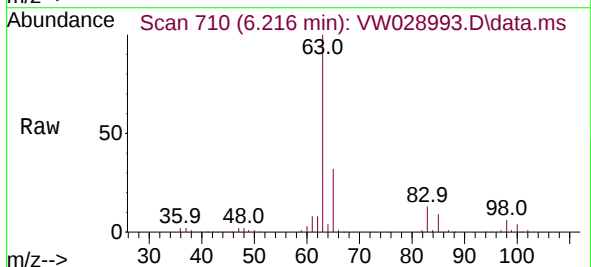
Instrument :
MSVOA_W
ClientSampleId :



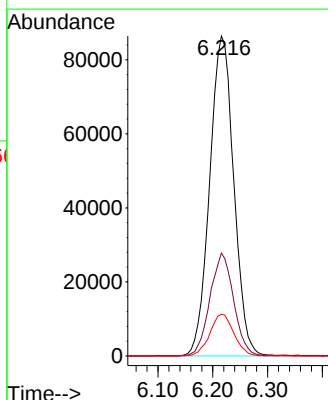
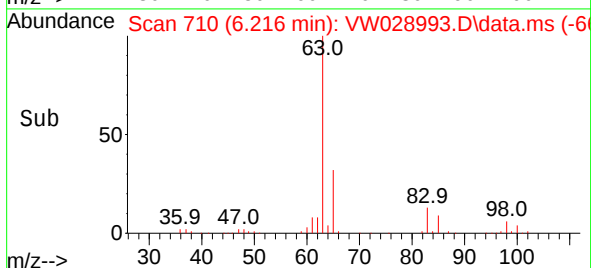
Tgt Ion: 73 Resp: 167708
Ion Ratio Lower Upper
73 100
43 23.1 17.8 26.6
57 23.7 18.4 27.6

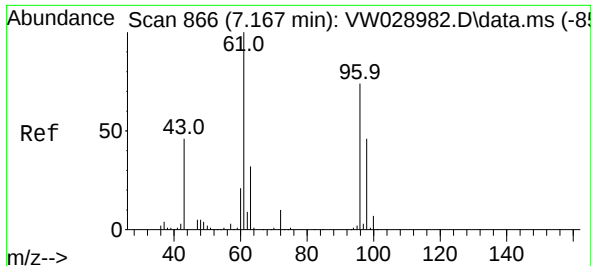


#19
1,1-Dichloroethane
Concen: 26.628 ug/L
RT: 6.216 min Scan# 710
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29



Tgt Ion: 63 Resp: 263825
Ion Ratio Lower Upper
63 100
65 32.2 21.8 40.6
83 13.0 8.8 16.3





#20

cis-1,2-Dichloroethene

Concen: 37.441 ug/L

RT: 7.167 min Scan# 866

Delta R.T. 0.000 min

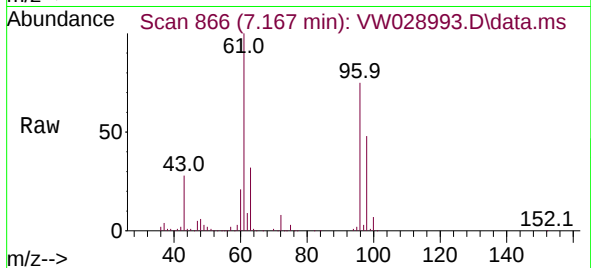
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Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :



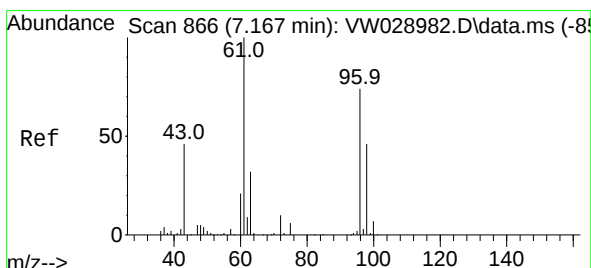
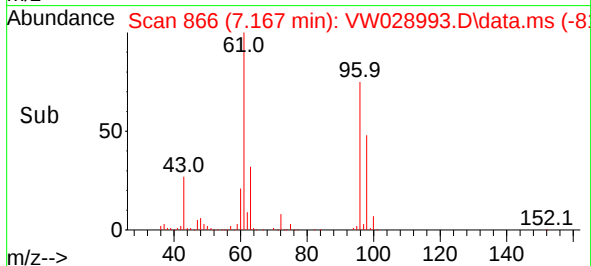
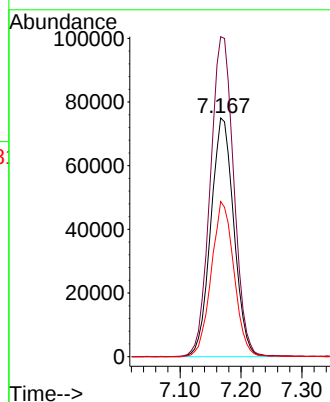
Tgt Ion: 96 Resp: 197807

Ion Ratio Lower Upper

96 100

61 134.1 92.9 172.5

98 65.0 45.2 84.0



#22

2-Butanone

Concen: 50.306 ug/L

RT: 7.167 min Scan# 866

Delta R.T. 0.000 min

Lab File: VW028993.D

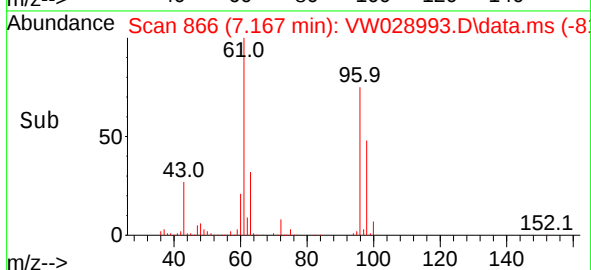
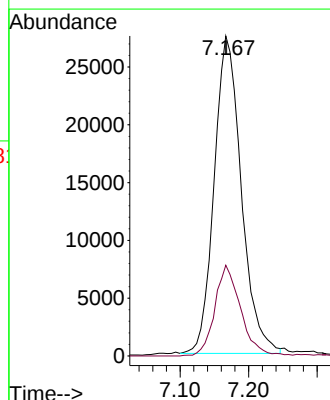
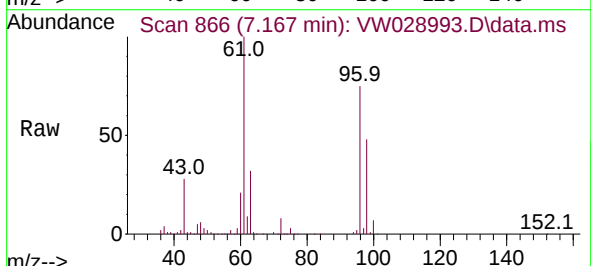
Acq: 04 Jun 2024 14:29

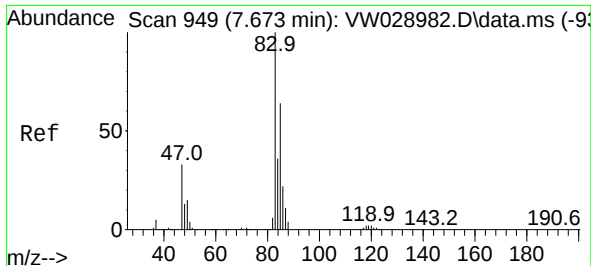
Tgt Ion: 43 Resp: 75398

Ion Ratio Lower Upper

43 100

72 26.2 12.5 37.5





#25

Chloroform

Concen: 41.795 ug/L

RT: 7.679 min Scan# 949

Delta R.T. 0.006 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

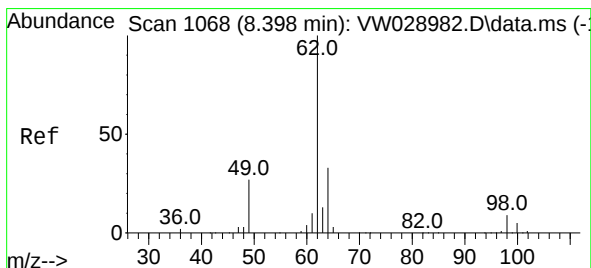
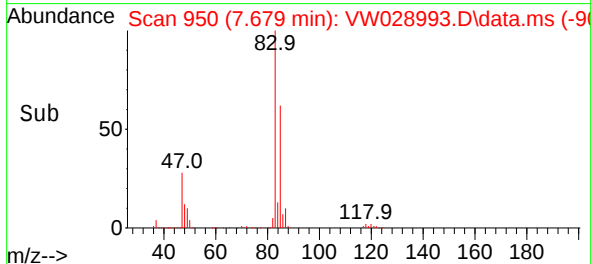
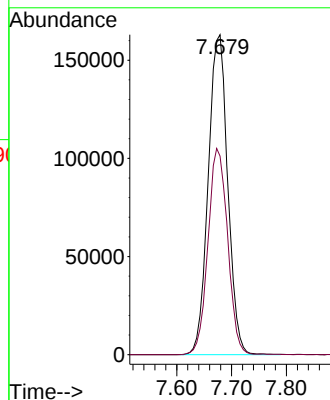
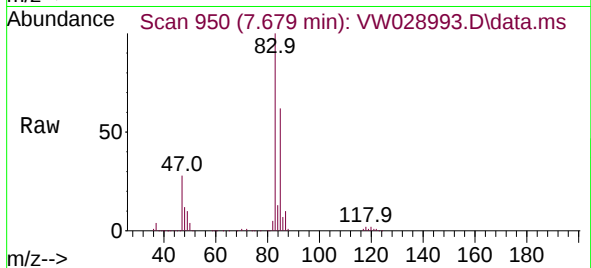
ClientSampleId :

Tgt Ion: 83 Resp: 402193

Ion Ratio Lower Upper

83 100

85 62.0 45.8 85.2



#27

1,2-Dichloroethane

Concen: 11.179 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. 0.000 min

Lab File: VW028993.D

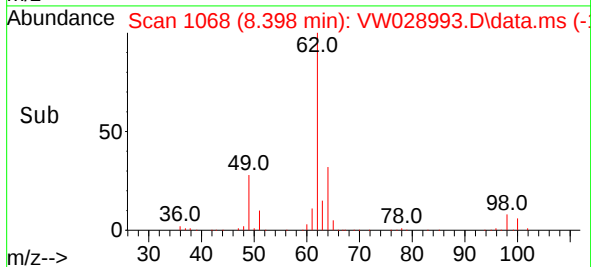
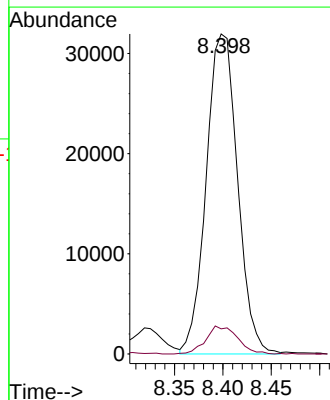
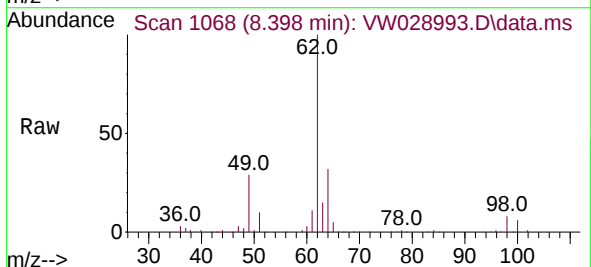
Acq: 04 Jun 2024 14:29

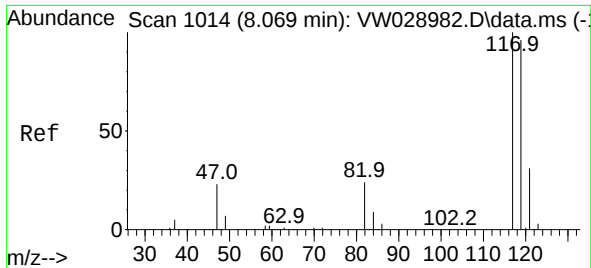
Tgt Ion: 62 Resp: 72093

Ion Ratio Lower Upper

62 100

98 7.9 7.1 10.7

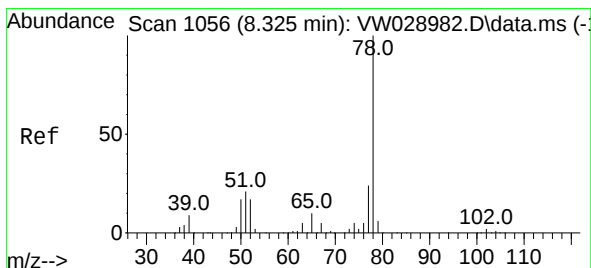
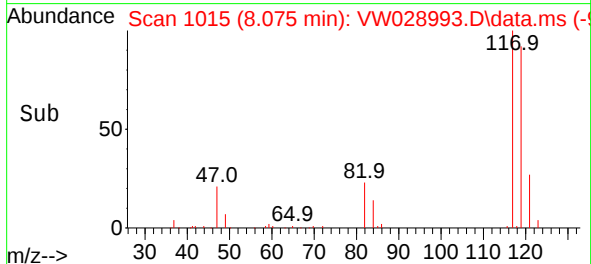
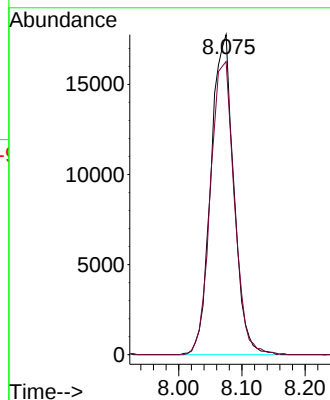
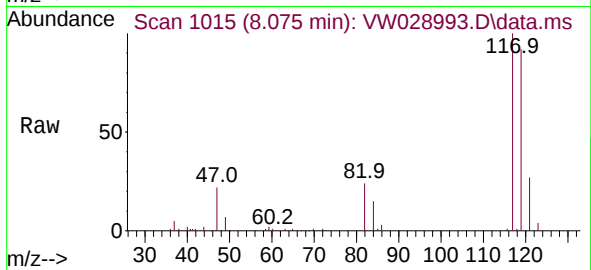




#31
Carbon tetrachloride
Concen: 6.271 ug/L
RT: 8.075 min Scan# 1015
Delta R.T. 0.006 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

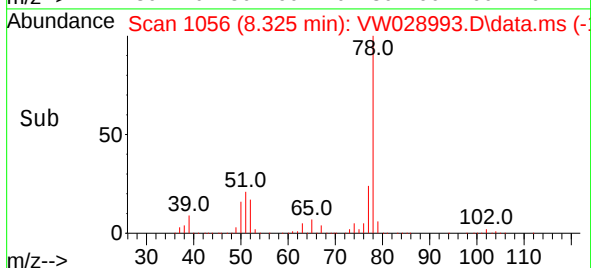
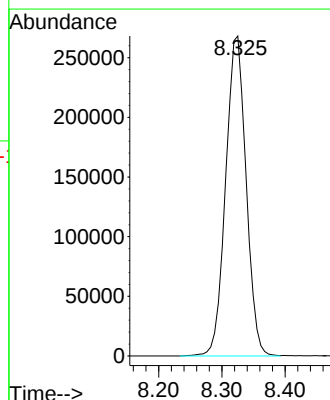
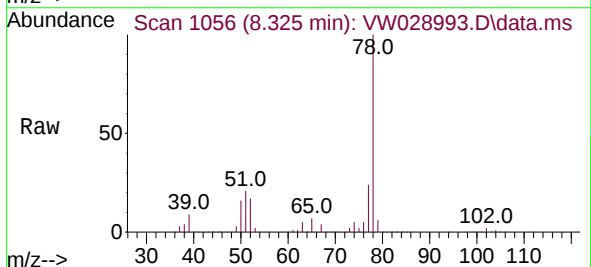
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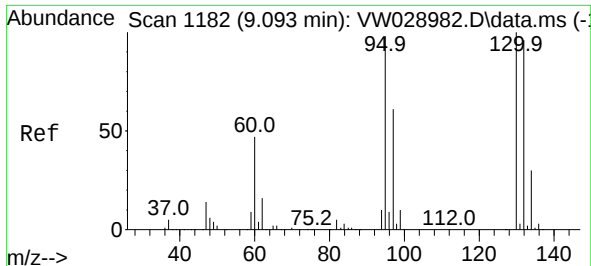
Tgt Ion:117 Resp: 44510
Ion Ratio Lower Upper
117 100
119 95.7 78.8 118.2



#33
Benzene
Concen: 28.769 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Tgt Ion: 78 Resp: 601631





#34

Trichloroethene

Concen: 40.799 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 224309

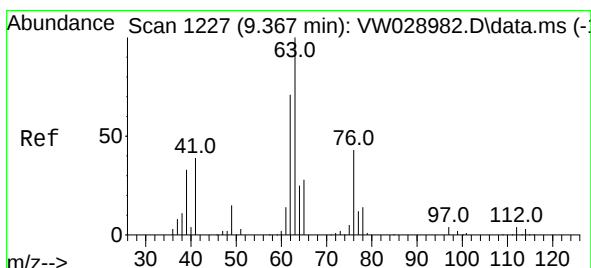
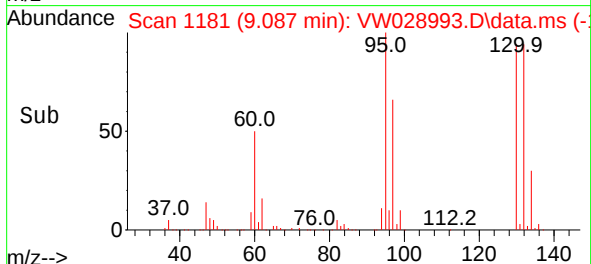
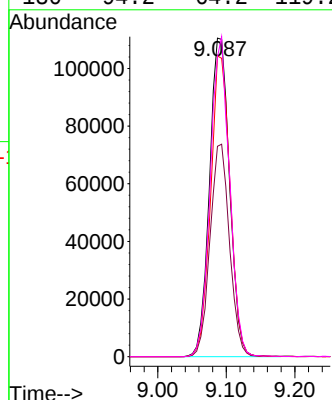
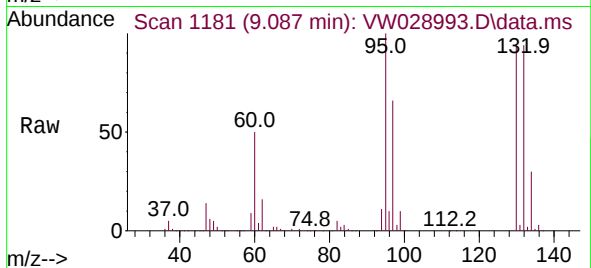
Ion Ratio Lower Upper

95 100

97 66.0 41.9 77.7

132 94.4 60.1 111.5

130 94.2 64.2 119.2



#37

1,2-Dichloropropane

Concen: 21.026 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW028993.D

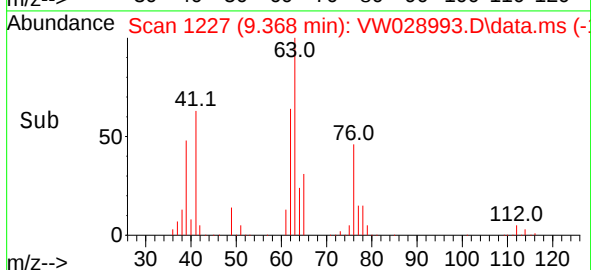
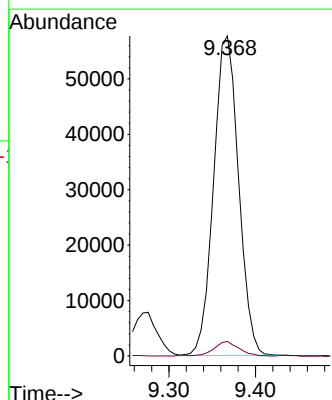
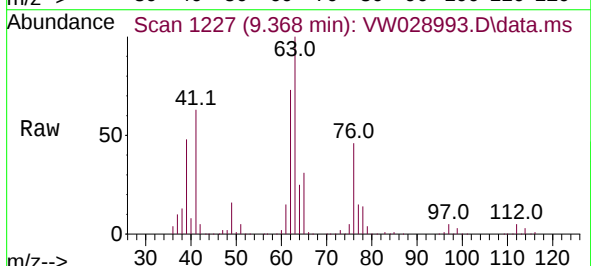
Acq: 04 Jun 2024 14:29

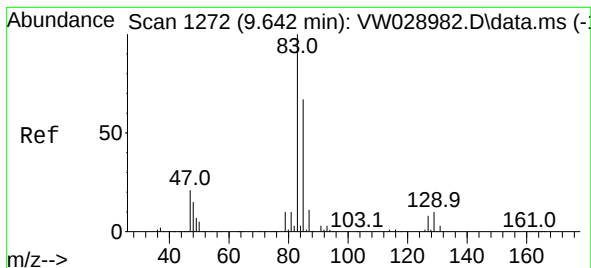
Tgt Ion: 63 Resp: 115142

Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4





#38

Bromodichloromethane

Concen: 27.823 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :

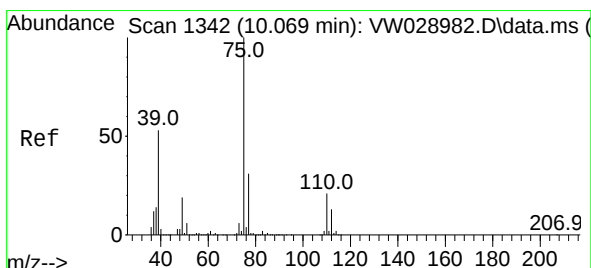
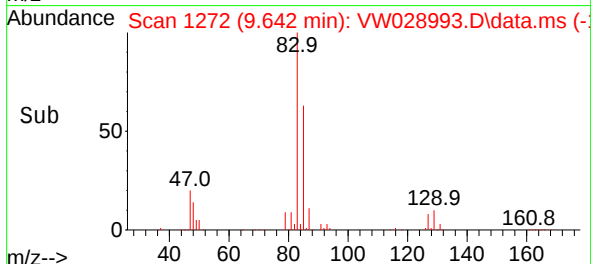
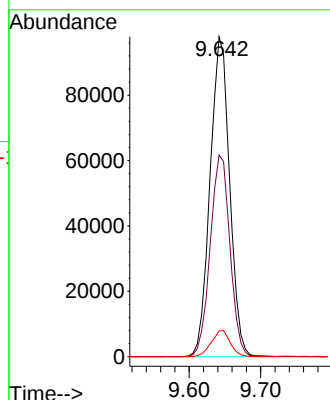
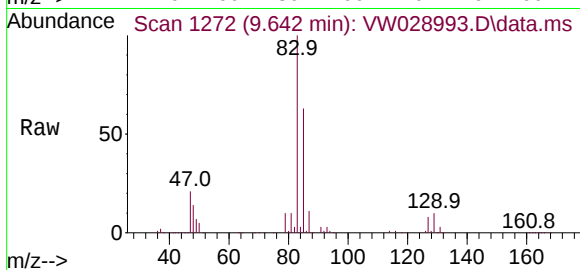
Tgt Ion: 83 Resp: 185827

Ion Ratio Lower Upper

83 100

85 63.0 43.9 81.5

127 8.0 5.4 8.2



#39

cis-1,3-Dichloropropene

Concen: 32.271 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW028993.D

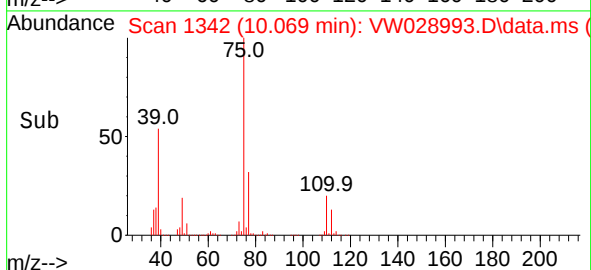
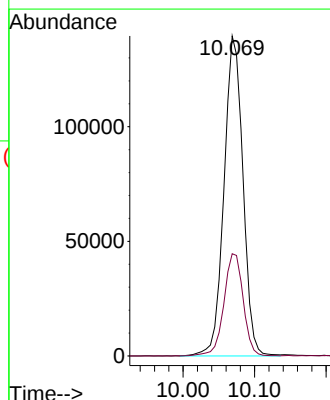
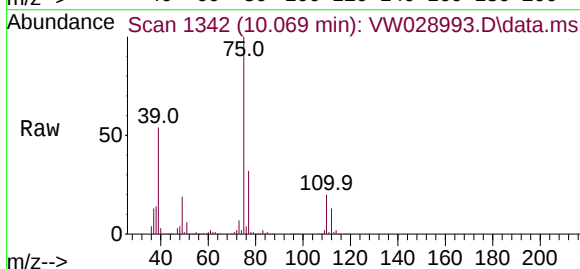
Acq: 04 Jun 2024 14:29

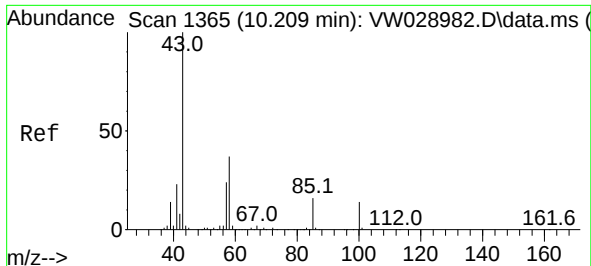
Tgt Ion: 75 Resp: 256831

Ion Ratio Lower Upper

75 100

77 32.0 21.0 39.0





#40

4-Methyl-2-pentanone

Concen: 119.910 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :

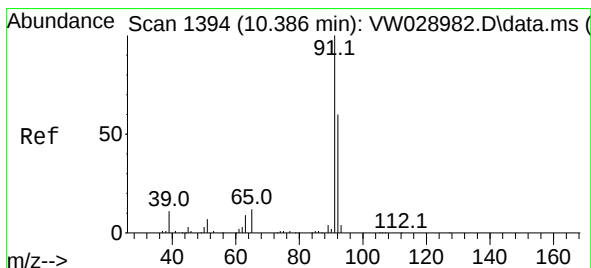
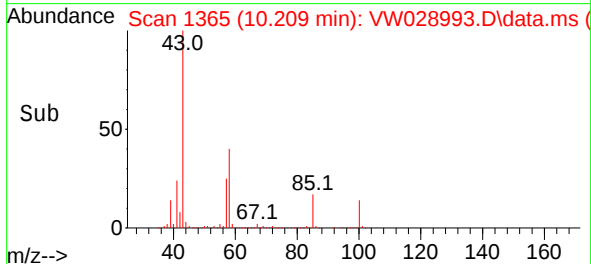
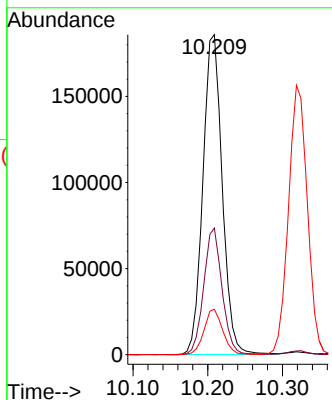
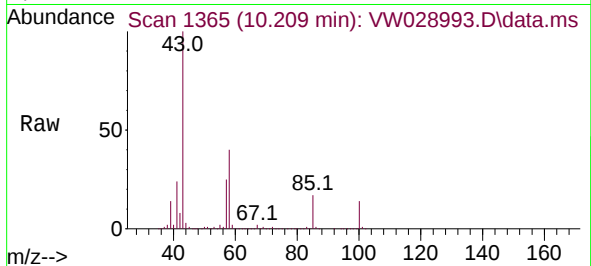
Tgt Ion: 43 Resp: 334004

Ion Ratio Lower Upper

43 100

58 37.6 30.3 45.5

100 13.8 10.7 16.1



#42

Toluene

Concen: 34.281 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW028993.D

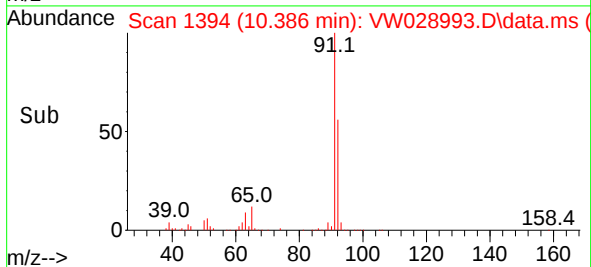
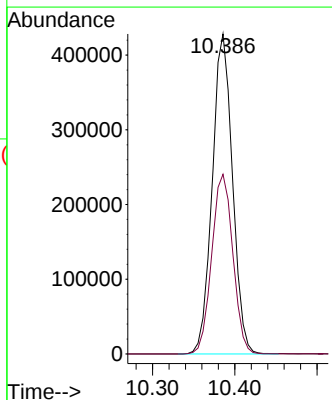
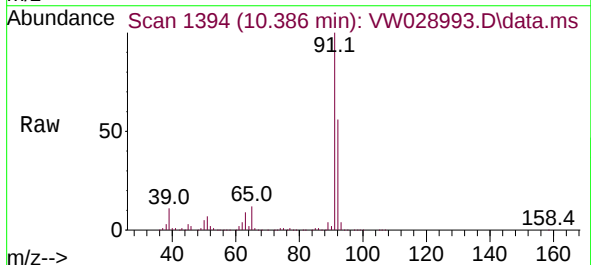
Acq: 04 Jun 2024 14:29

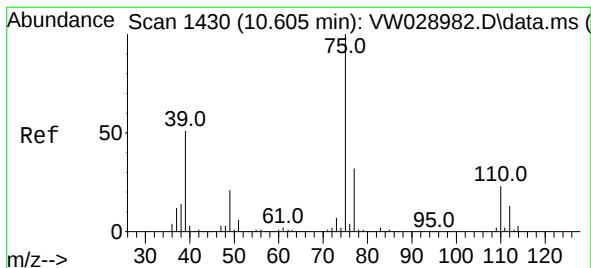
Tgt Ion: 91 Resp: 732346

Ion Ratio Lower Upper

91 100

92 56.1 41.2 76.4





#44

trans-1,3-Dichloropropene

Concen: 4.658 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

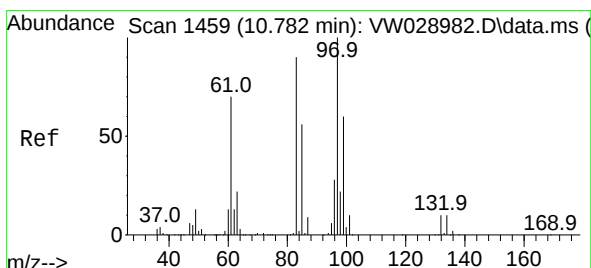
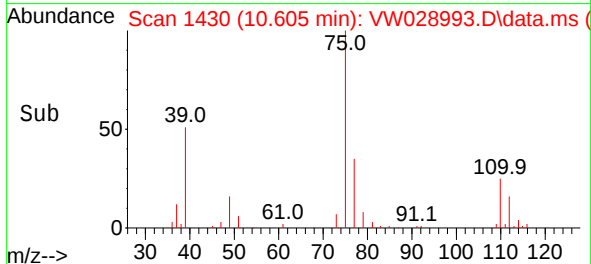
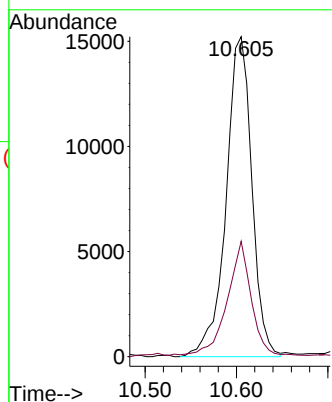
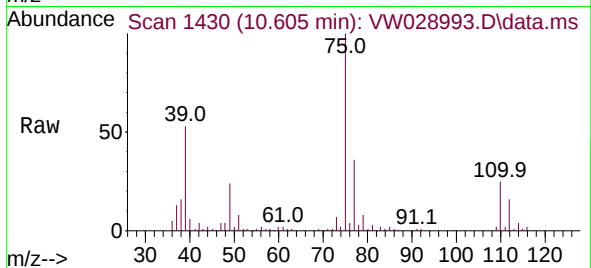
ClientSampleId :

Tgt Ion: 75 Resp: 29887

Ion Ratio Lower Upper

75 100

77 36.1 22.0 40.8



#45

1,1,2-Trichloroethane

Concen: 10.245 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Tgt Ion: 97 Resp: 37890

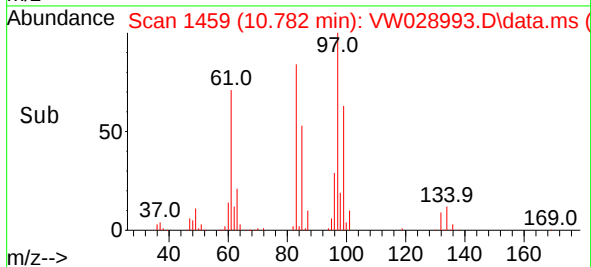
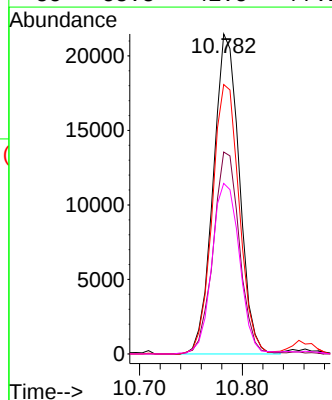
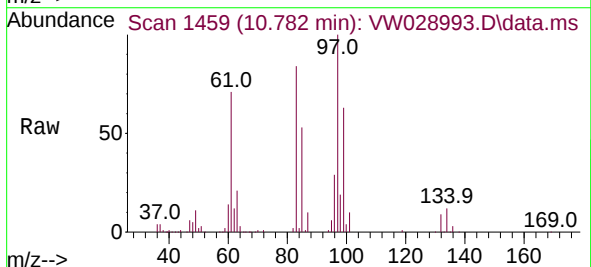
Ion Ratio Lower Upper

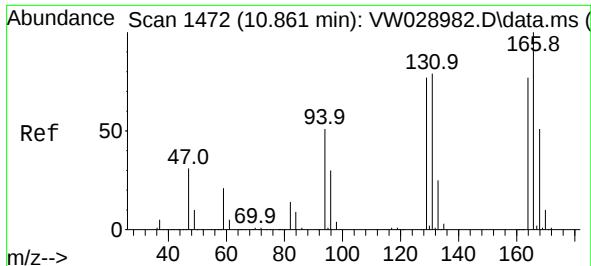
97 100

99 63.1 41.8 77.6

83 84.2 62.4 115.8

85 53.3 41.5 77.1





#46

Tetrachloroethene

Concen: 11.030 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.000 min

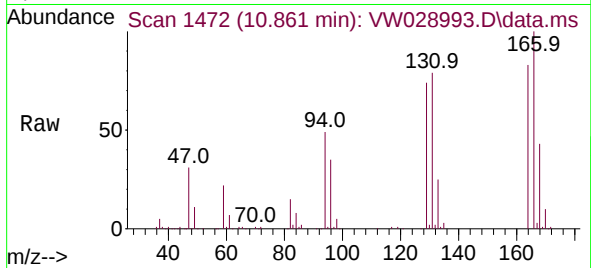
Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 46074

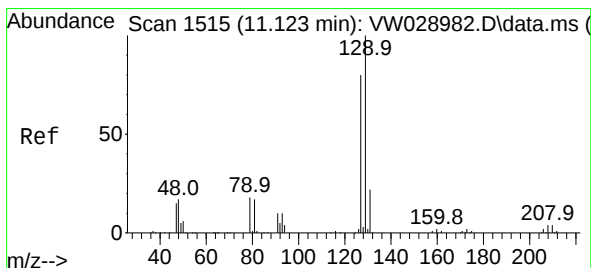
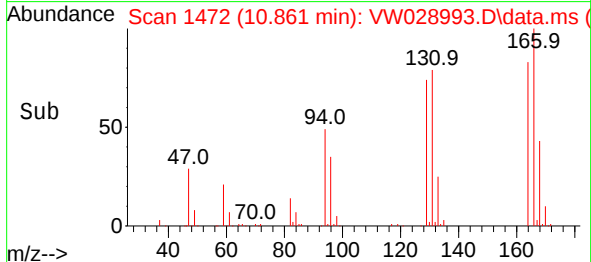
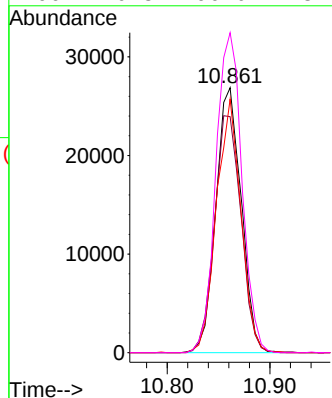
Ion Ratio Lower Upper

164 100

129 89.1 69.4 128.8

131 95.7 71.0 131.9

166 120.8 96.0 178.4



#49

Dibromochloromethane

Concen: 52.617 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VW028993.D

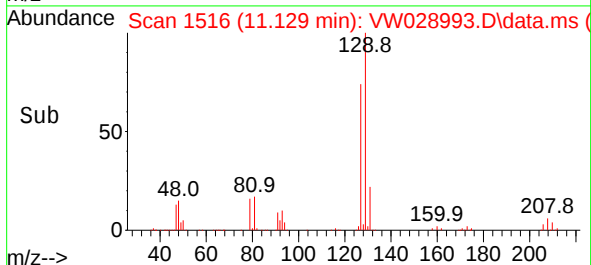
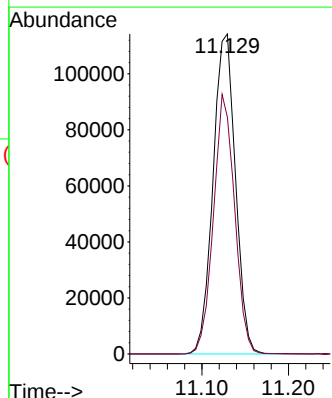
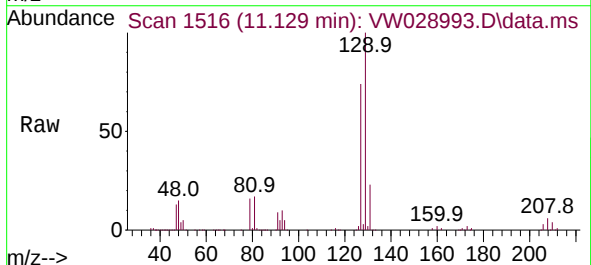
Acq: 04 Jun 2024 14:29

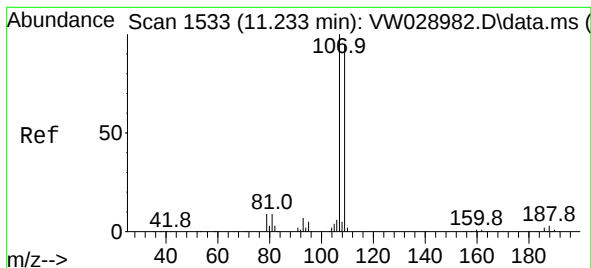
Tgt Ion:129 Resp: 205545

Ion Ratio Lower Upper

129 100

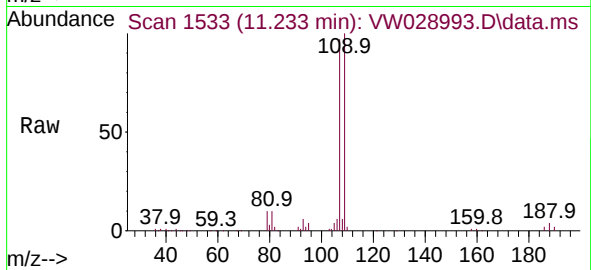
127 73.9 56.5 104.9



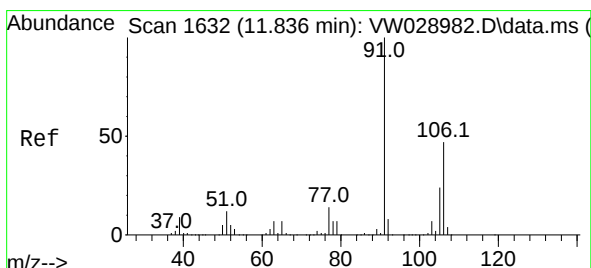
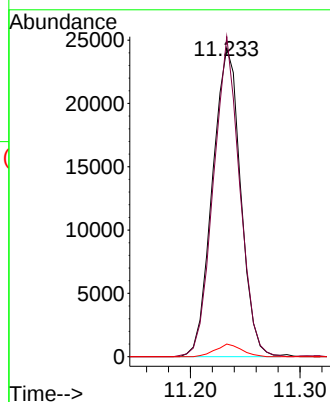
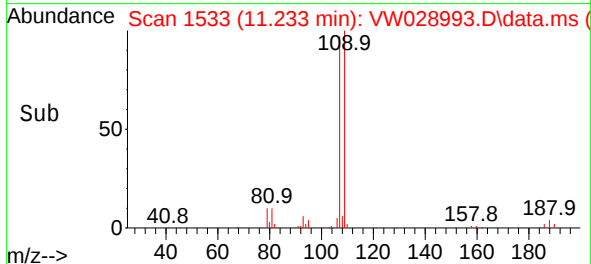


#50
1,2-Dibromoethane
Concen: 12.901 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Instrument :
MSVOA_W
ClientSampleId :

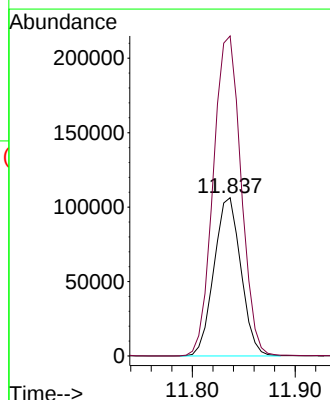
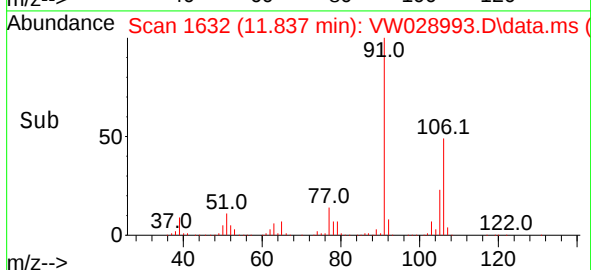
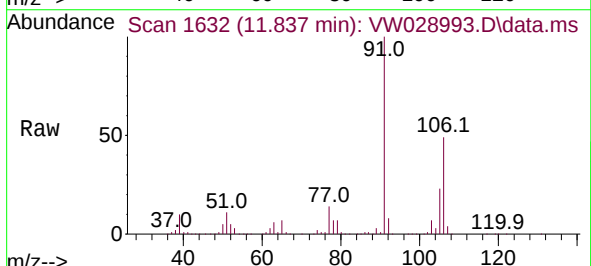


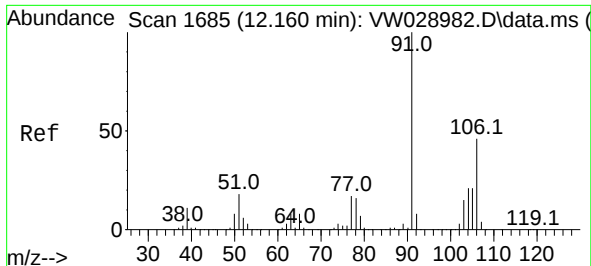
Tgt Ion:107 Resp: 43557
Ion Ratio Lower Upper
107 100
109 103.6 67.9 126.1
188 4.1 3.0 4.4



#53
m,p-Xylene
Concen: 21.480 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Tgt Ion:106 Resp: 193116
Ion Ratio Lower Upper
106 100
91 202.3 152.0 282.2

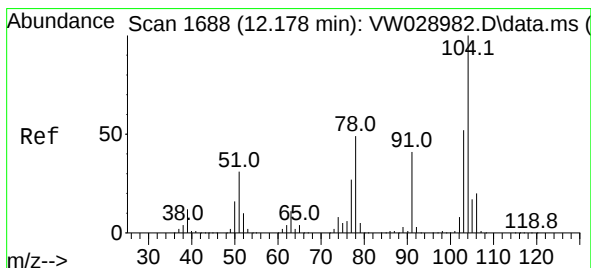
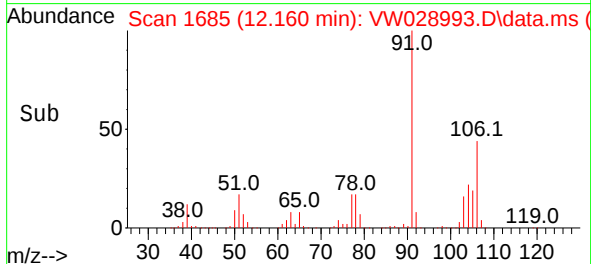
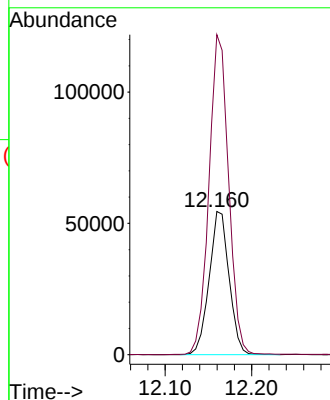
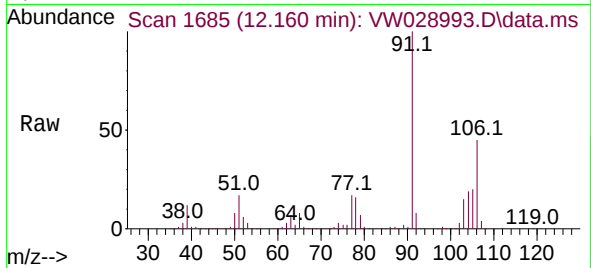




#54
o-Xylene
Concen: 10.465 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

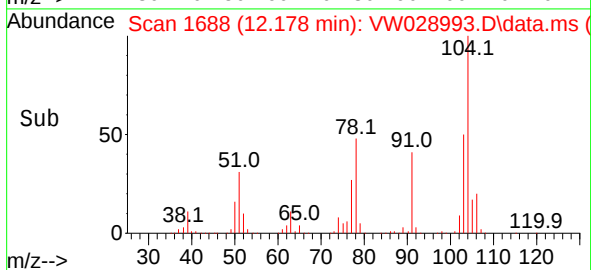
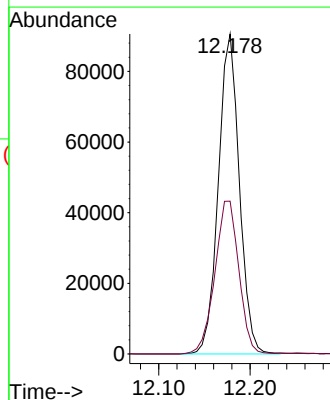
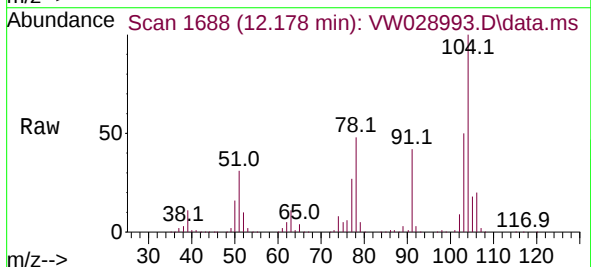
Instrument :
MSVOA_W
ClientSampleId :

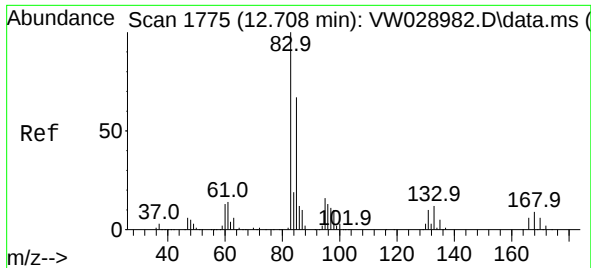
Tgt Ion:106 Resp: 87121
Ion Ratio Lower Upper
106 100
91 223.4 152.5 283.3



#55
Styrene
Concen: 10.088 ug/L
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Tgt Ion:104 Resp: 144781
Ion Ratio Lower Upper
104 100
78 47.7 33.3 61.9

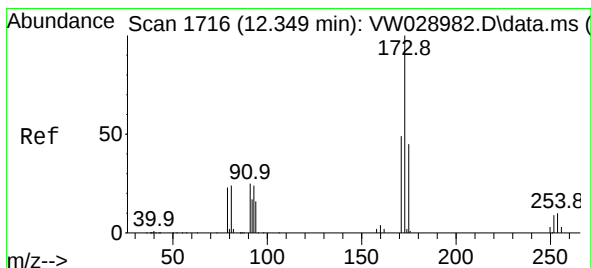
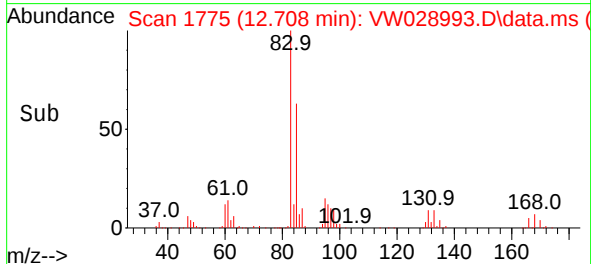
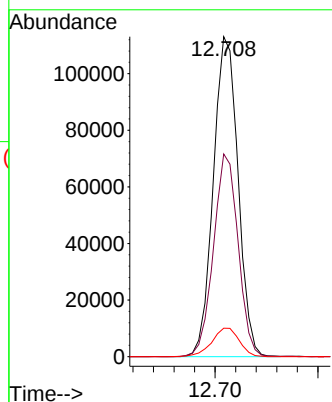
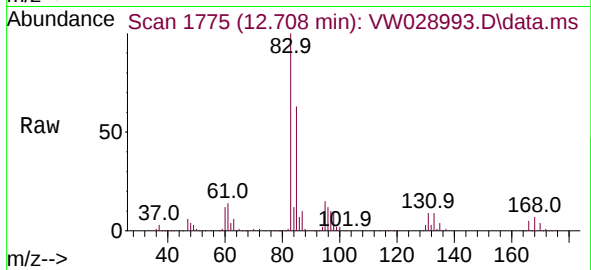




#57
1,1,2,2-Tetrachloroethane
Concen: 45.224 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

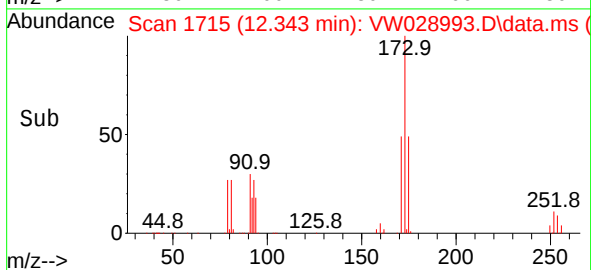
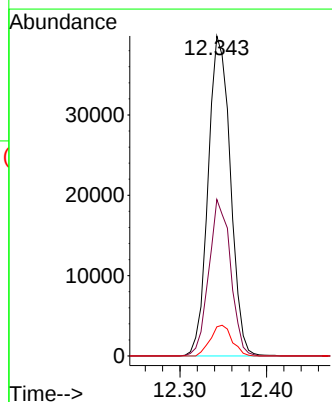
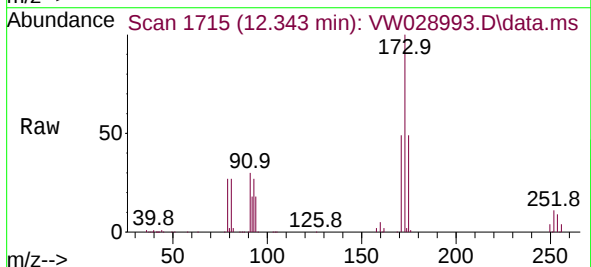
Instrument :
MSVOA_W
ClientSampleId :

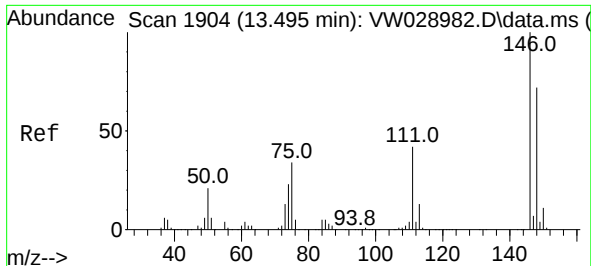
Tgt Ion: 83 Resp: 188817
Ion Ratio Lower Upper
83 100
85 63.3 43.8 81.3
131 8.9 7.3 10.9



#59
Bromoform
Concen: 35.031 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW028993.D
Acq: 04 Jun 2024 14:29

Tgt Ion:173 Resp: 71068
Ion Ratio Lower Upper
173 100
175 47.7 38.1 57.1
254 9.3 8.2 12.2





#64

1,3-Dichlorobenzene

Concen: 8.045 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :

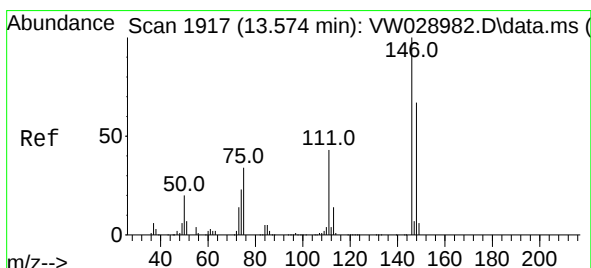
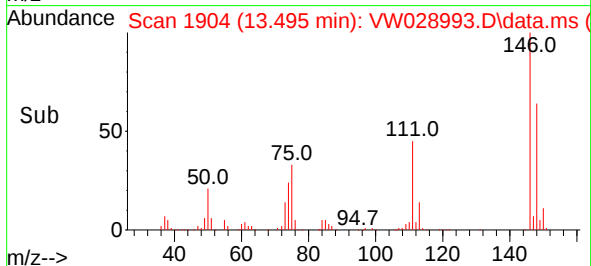
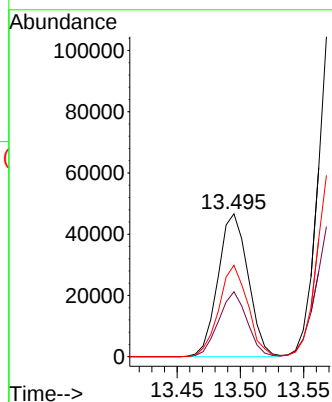
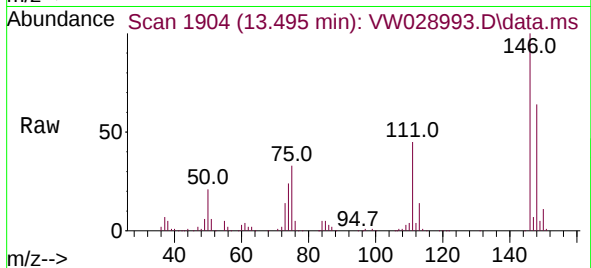
Tgt Ion:146 Resp: 77190

Ion Ratio Lower Upper

146 100

111 45.5 29.4 54.6

148 63.9 42.5 78.9



#65

1,4-Dichlorobenzene

Concen: 19.030 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

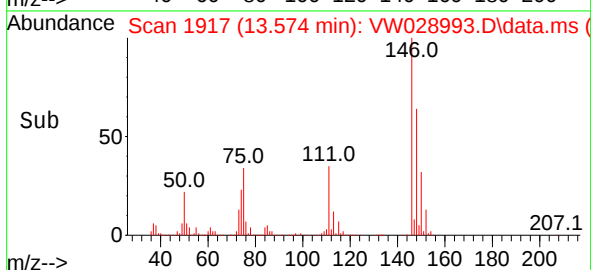
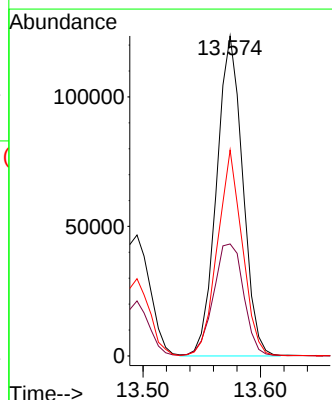
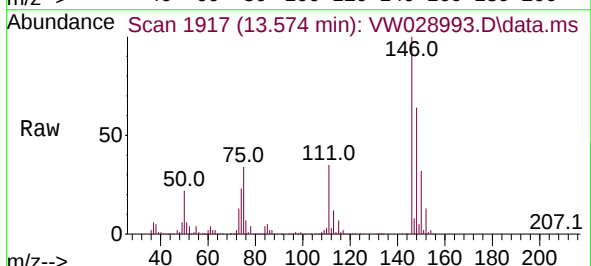
Tgt Ion:146 Resp: 190707

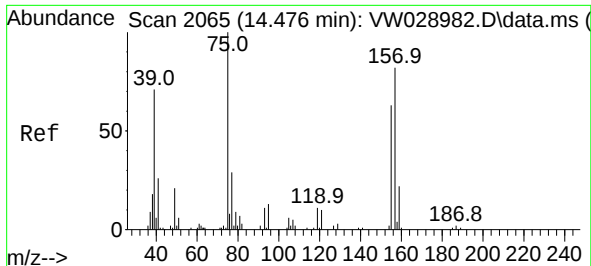
Ion Ratio Lower Upper

146 100

111 35.0 27.5 51.1

148 64.4 39.5 73.3





#68

1,2-Dibromo-3-chloropropane

Concen: 15.259 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Instrument :

MSVOA_W

ClientSampleId :

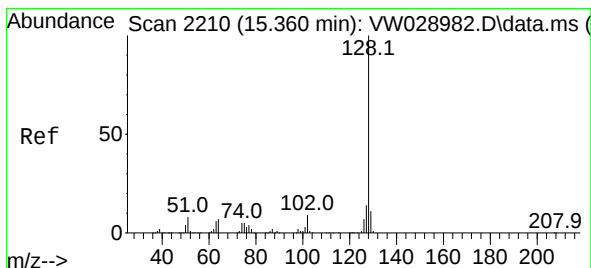
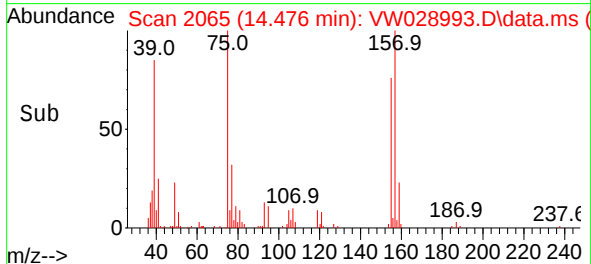
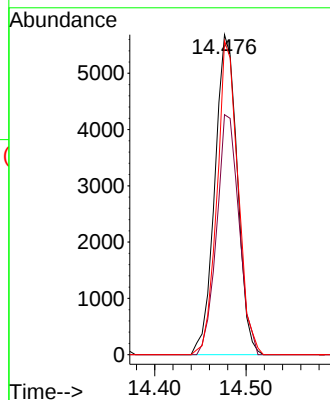
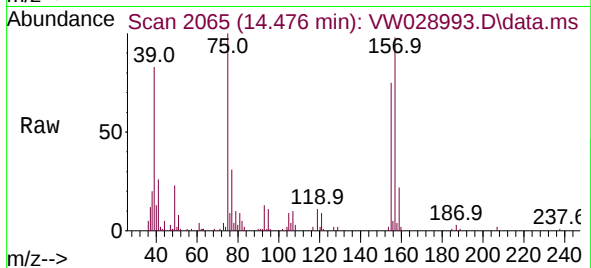
Tgt Ion: 75 Resp: 9679

Ion Ratio Lower Upper

75 100

155 75.0 52.3 78.5

157 98.0 71.0 106.4



#71

Naphthalene

Concen: 34.109 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW028993.D

Acq: 04 Jun 2024 14:29

Tgt Ion: 128 Resp: 310301

Ion Ratio Lower Upper

128 100

127 14.5 10.2 15.2

129 11.6 8.6 12.8

