

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW052223\
 Data File : VW031172.D
 Acq On : 22 May 2023 17:43
 Operator : SY/MD
 Sample : 02861-16MS
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H0FL8MS

Quant Time: May 23 04:53:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM051923WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue May 23 04:42:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	249657	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	190302	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	150477	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	66452	31.145	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	62.300%		
7) Chloroethane-d5	1.535	69	63322	38.525	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	77.040%		
11) 1,1-Dichloroethene-d2	2.066	65	34007	33.989	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	67.980%		
21) 2-Butanone-d5	3.799	46	106427	93.612	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	93.610%		
24) Chloroform-d	4.259	84	159746	42.322	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	84.640%		
26) 1,2-Dichloroethane-d4	4.950	65	112037	43.926	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.860%		
32) Benzene-d6	4.969	84	273431	53.001	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	106.000%		
36) 1,2-Dichloropropane-d6	5.995	67	81285	52.659	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	105.320%		
41) Toluene-d8	7.249	98	232277	48.241	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.480%		
43) trans-1,3-Dichloroprop...	7.558	79	38691	49.960	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	99.920%		
47) 2-Hexanone-d5	8.030	63	62329	103.563	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	103.560%		
56) 1,1,2,2-Tetrachloroeth...	10.159	84	136063	58.770	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	117.540%		
66) 1,2-Dichlorobenzene-d4	11.567	152	117783	43.558	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	87.120%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.108	85	74669	46.328	ug/L	97
3) Chloromethane	1.217	50	79208	44.889	ug/L	99
5) Vinyl chloride	1.288	62	76176	48.333	ug/L	99
6) Bromomethane	1.490	94	37273	42.199	ug/L	94
8) Chloroethane	1.552	64	52158	51.357	ug/L	98
9) Trichlorofluoromethane	1.719	101	151548	48.887	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	78562	48.057	ug/L	96
12) 1,1-Dichloroethene	2.076	96	68043	49.065	ug/L	87
13) Acetone	2.127	43	136062	92.057	ug/L	100
14) Carbon disulfide	2.246	76	119756	47.387	ug/L	98
15) Methyl Acetate	2.381	43	85326	50.795	ug/L	100
16) Methylene chloride	2.455	84	74831	48.469	ug/L	98
17) trans-1,2-Dichloroethene	2.703	96	62331	48.613	ug/L	97
18) Methyl tert-butyl Ether	2.712	73	259084	52.307	ug/L	99
19) 1,1-Dichloroethane	3.117	63	146466	50.124	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	78488	49.656	ug/L	98
22) 2-Butanone	3.883	43	137872	97.274	ug/L	97
23) Bromochloromethane	4.156	128	44820	51.600	ug/L	95
25) Chloroform	4.285	83	167451	51.299	ug/L	94

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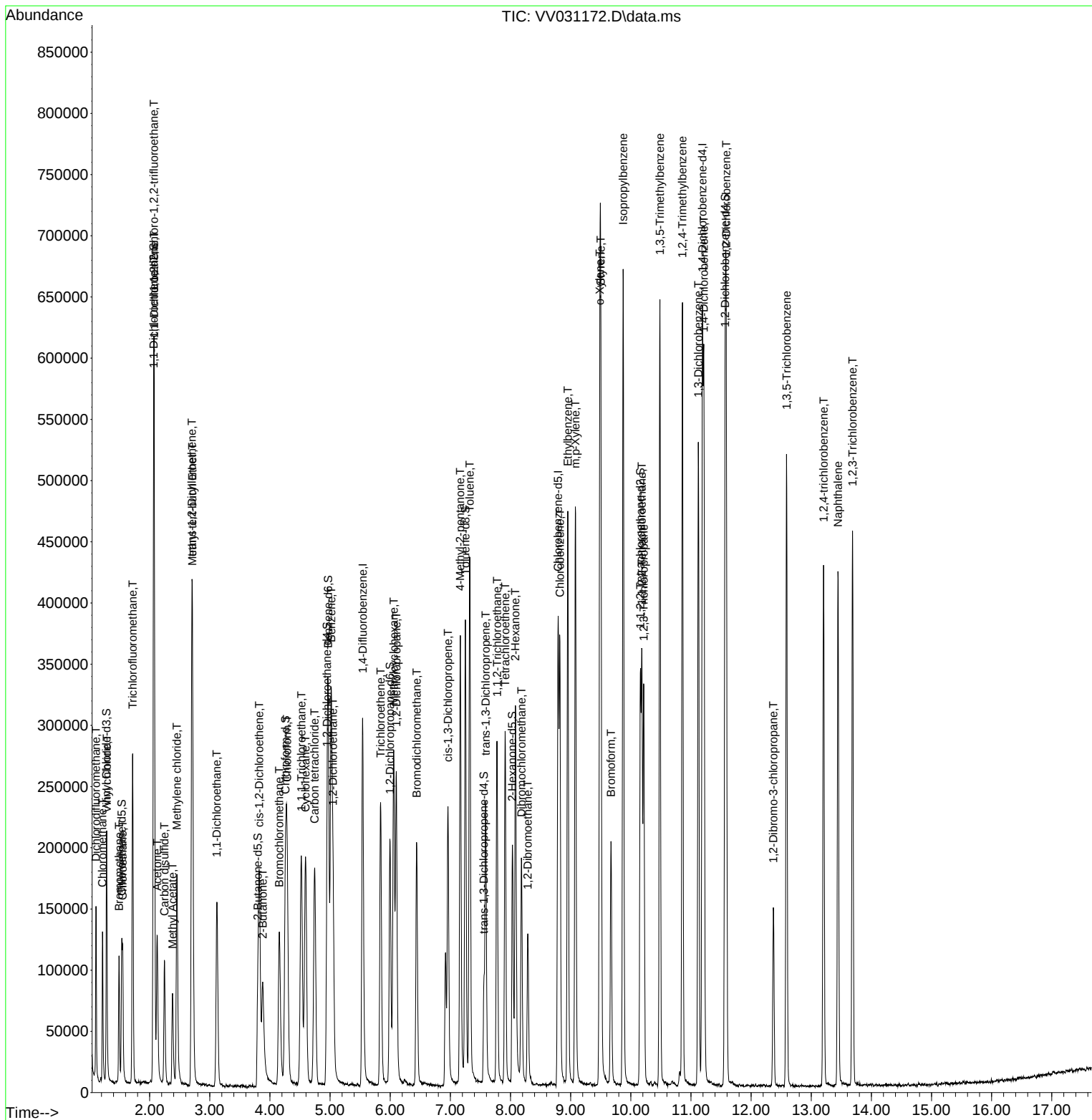
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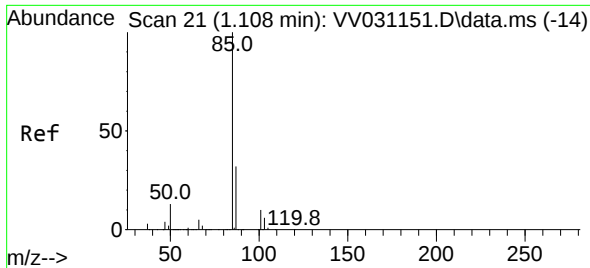
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.050	62	144081	52.023	ug/L	99
29) Cyclohexane	4.593	56	93409	62.377	ug/L	100
30) 1,1,1-Trichloroethane	4.522	97	151780	64.996	ug/L	99
31) Carbon tetrachloride	4.744	117	132172	64.969	ug/L	100
33) Benzene	5.018	78	302516	66.354	ug/L	100
34) Trichloroethene	5.841	95	76820	62.885	ug/L	94
35) Methylcyclohexane	6.059	83	103944	64.123	ug/L	99
37) 1,2-Dichloropropane	6.101	63	80622	64.249	ug/L	99
38) Bromodichloromethane	6.439	83	123369	63.422	ug/L	97
39) cis-1,3-Dichloropropene	6.960	75	127622	65.956	ug/L	98
40) 4-Methyl-2-pentanone	7.165	43	232467	120.391	ug/L	99
42) Toluene	7.323	91	298242	60.463	ug/L	99
44) trans-1,3-Dichloropropene	7.587	75	118680	60.629	ug/L	97
45) 1,1,2-Trichloroethane	7.776	97	78665	57.449	ug/L	97
46) Tetrachloroethene	7.911	164	61890	59.001	ug/L	96
48) 2-Hexanone	8.082	43	191410	119.016	ug/L	99
49) Dibromochloromethane	8.185	129	86718	56.131	ug/L	97
50) 1,2-Dibromoethane	8.288	107	73942	54.313	ug/L	99
51) Chlorobenzene	8.821	112	173729	49.484	ug/L	99
52) Ethylbenzene	8.953	91	304788	53.969	ug/L	97
53) m,p-Xylene	9.082	106	126394	57.696	ug/L	97
54) o-Xylene	9.484	106	128279	59.358	ug/L	98
55) Styrene	9.503	104	238704	62.453	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.185	83	148660	66.076	ug/L	99
59) Bromoform	9.670	173	85691	49.112	ug/L	99
60) Isopropylbenzene	9.873	105	395941	49.199	ug/L	100
61) 1,2,3-Trichloropropane	10.217	75	114215	49.338	ug/L	98
62) 1,3,5-Trimethylbenzene	10.484	105	321385	48.583	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	317507	49.088	ug/L	100
64) 1,3-Dichlorobenzene	11.124	146	201450	48.853	ug/L	99
65) 1,4-Dichlorobenzene	11.217	146	210575	49.086	ug/L	99
67) 1,2-Dichlorobenzene	11.586	146	203230	48.572	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.371	75	33244	46.782	ug/L	96
69) 1,3,5-Trichlorobenzene	12.590	180	153086	48.024	ug/L	99
70) 1,2,4-trichlorobenzene	13.207	180	127908	47.149	ug/L	99
71) Naphthalene	13.445	128	326504	46.335	ug/L	99
72) 1,2,3-Trichlorobenzene	13.686	180	132745	48.967	ug/L	98

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

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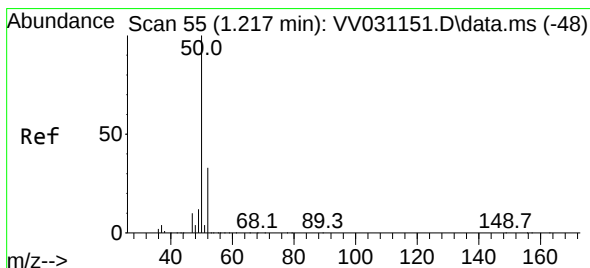
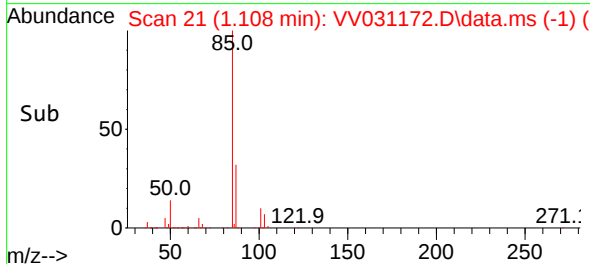
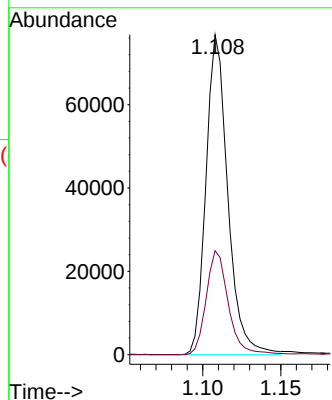
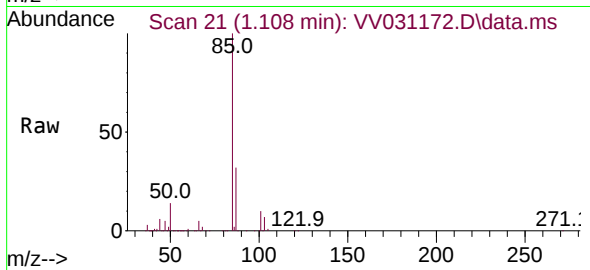




#2
 Dichlorodifluoromethane
 Concen: 46.328 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

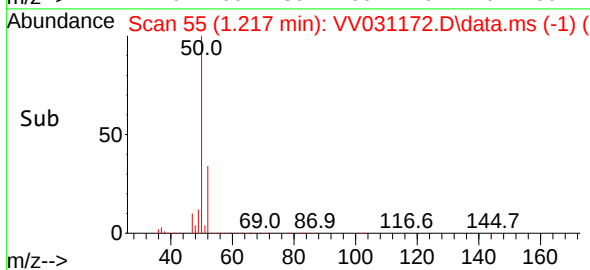
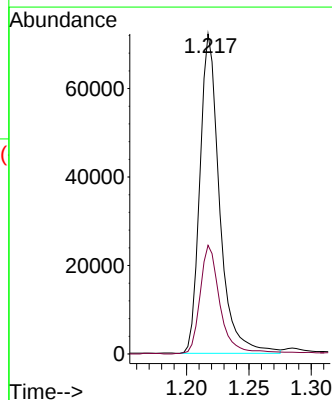
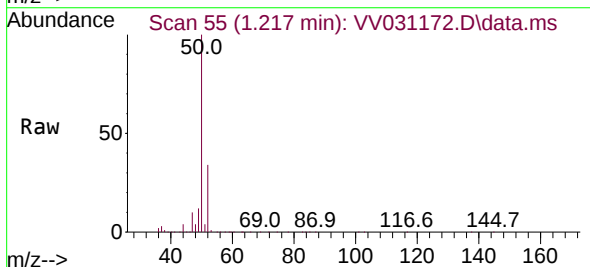
Instrument :
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 ClientSampleId :
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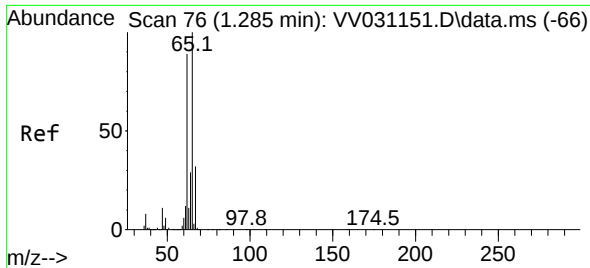
Tgt Ion: 85 Resp: 74669
 Ion Ratio Lower Upper
 85 100
 87 33.0 25.2 37.8



#3
 Chloromethane
 Concen: 44.889 ug/L
 RT: 1.217 min Scan# 55
 Delta R.T. 0.000 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

Tgt Ion: 50 Resp: 79208
 Ion Ratio Lower Upper
 50 100
 52 34.0 23.3 43.3

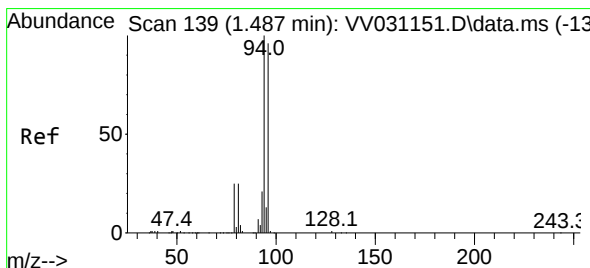
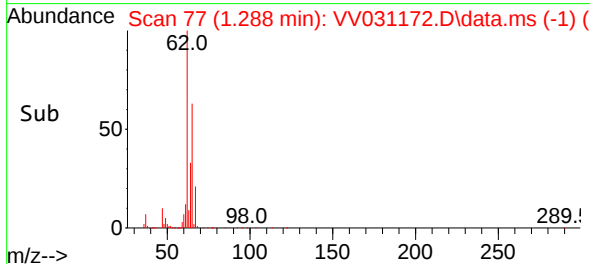
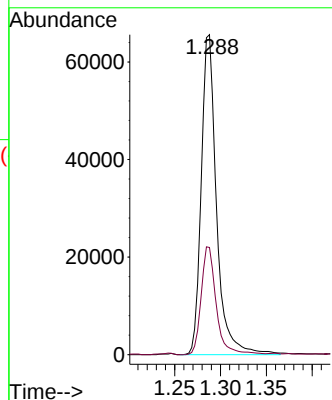
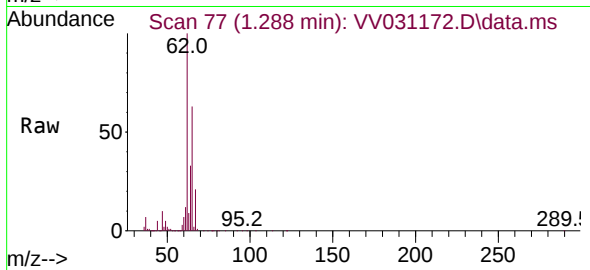




#5
 Vinyl chloride
 Concen: 48.333 ug/L
 RT: 1.288 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

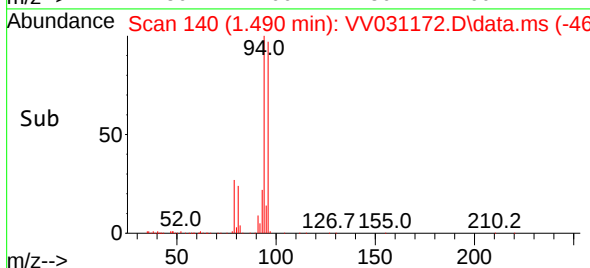
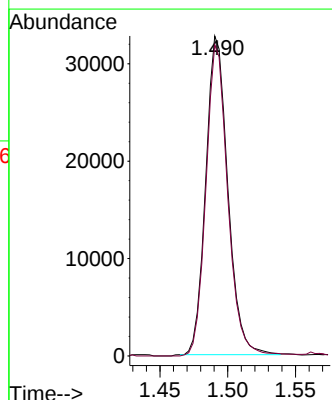
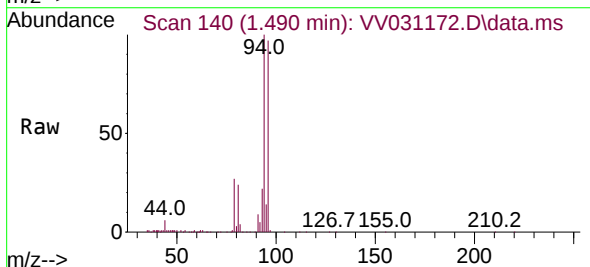
Instrument :
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 ClientSampleId :
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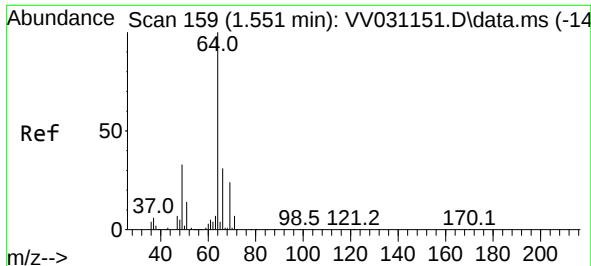
Tgt Ion: 62 Resp: 76176
 Ion Ratio Lower Upper
 62 100
 64 33.5 23.1 42.9



#6
 Bromomethane
 Concen: 42.199 ug/L
 RT: 1.490 min Scan# 140
 Delta R.T. 0.003 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

Tgt Ion: 94 Resp: 37273
 Ion Ratio Lower Upper
 94 100
 96 97.2 63.9 118.7

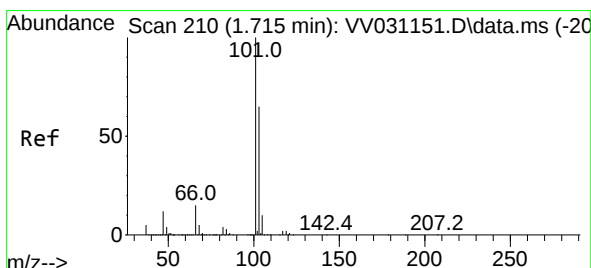
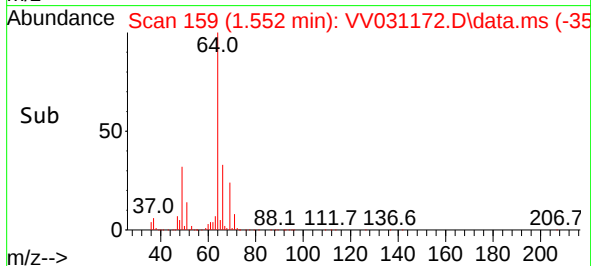
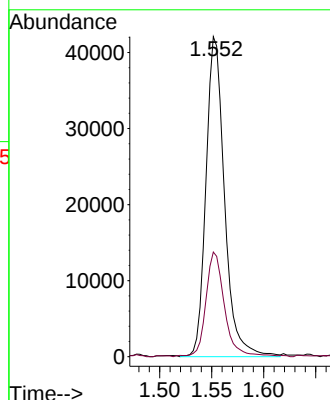
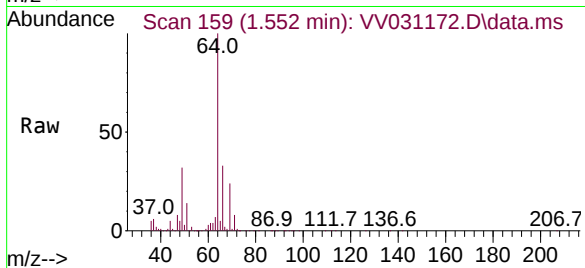




#8
Chloroethane
Concen: 51.357 ug/L
RT: 1.552 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

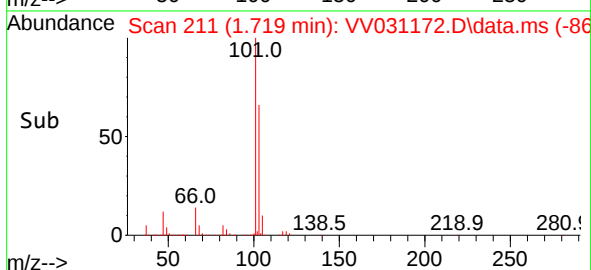
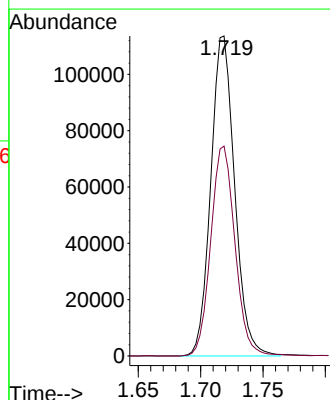
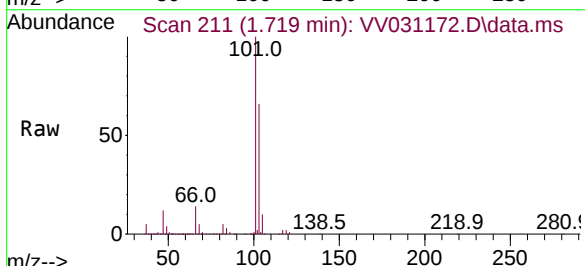
Instrument :
MSVOA_V
ClientSampleId :
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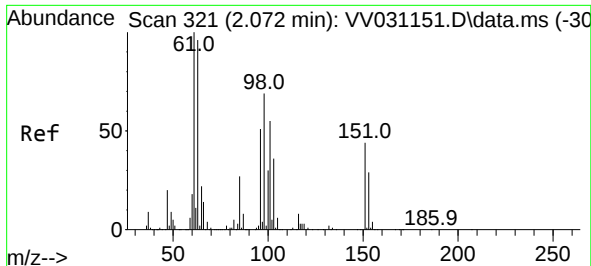
Tgt Ion: 64 Resp: 52158
Ion Ratio Lower Upper
64 100
66 32.7 22.1 41.1



#9
Trichlorofluoromethane
Concen: 48.887 ug/L
RT: 1.719 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 101 Resp: 151548
Ion Ratio Lower Upper
101 100
103 66.6 51.4 77.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 48.057 ug/L

RT: 2.072 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

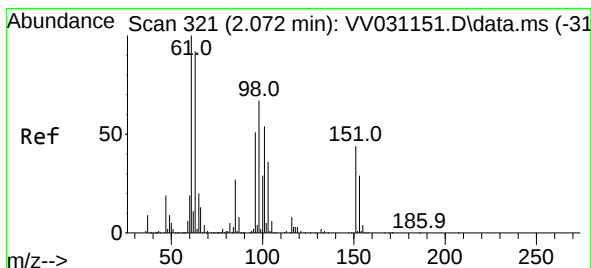
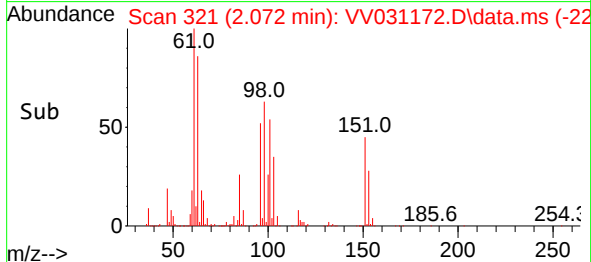
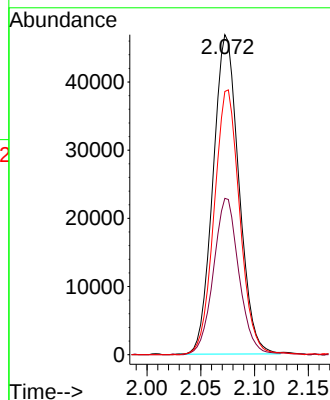
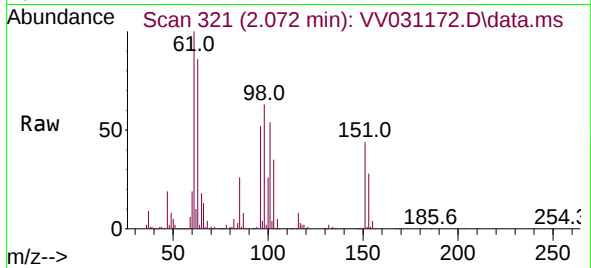
Tgt Ion:101 Resp: 78562

Ion Ratio Lower Upper

101 100

85 48.2 38.0 57.0

151 82.1 61.7 92.5



#12

1,1-Dichloroethene

Concen: 49.065 ug/L

RT: 2.076 min Scan# 322

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

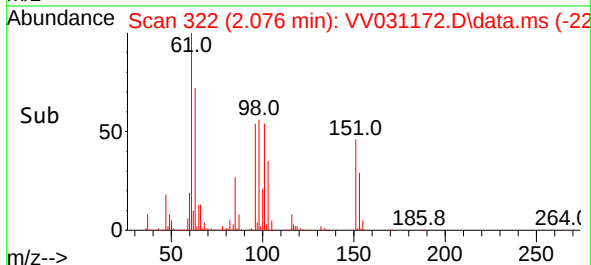
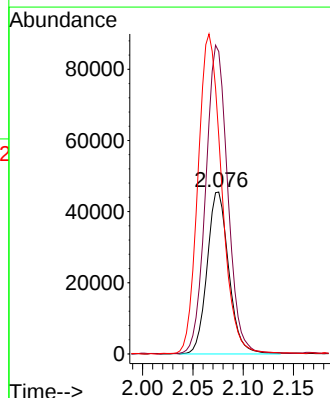
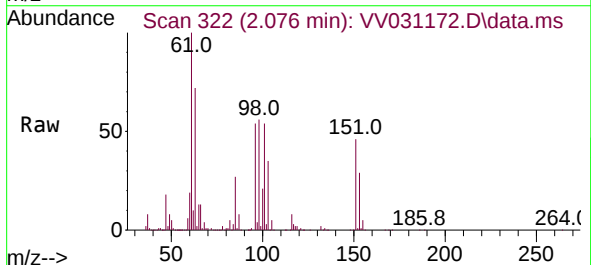
Tgt Ion: 96 Resp: 68043

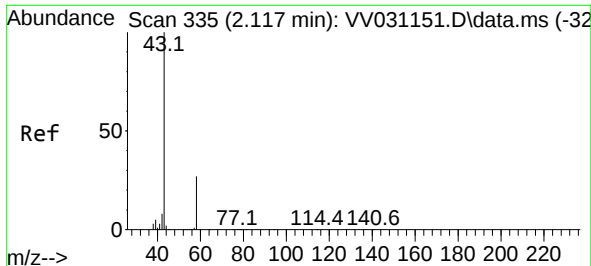
Ion Ratio Lower Upper

96 100

61 186.7 137.9 256.1

63 134.5 114.2 212.0





#13

Acetone

Concen: 92.057 ug/L

RT: 2.127 min Scan# 31

Delta R.T. 0.010 min

Lab File: VV031172.D

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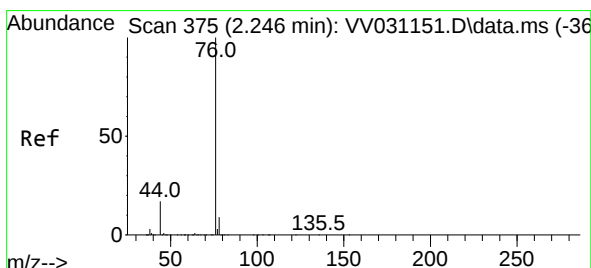
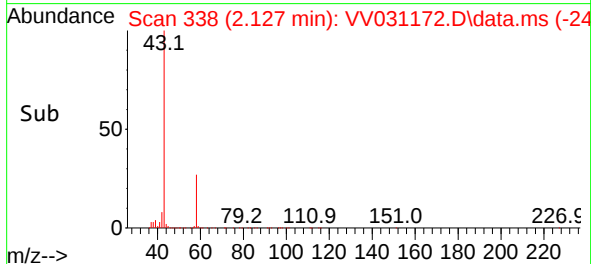
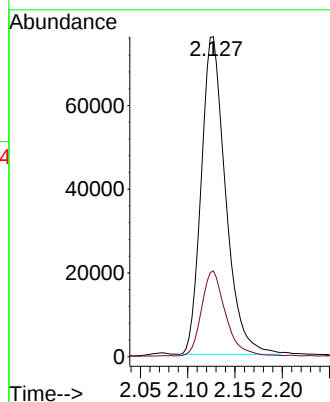
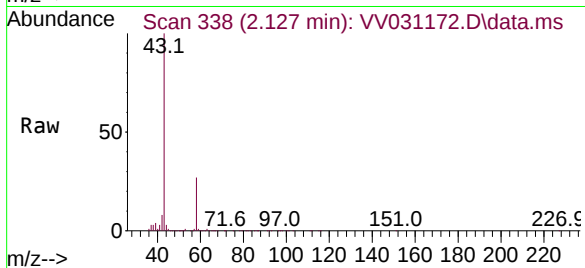
H0FL8MS

Tgt Ion: 43 Resp: 136062

Ion Ratio Lower Upper

43 100

58 27.0 0.0 54.0



#14

Carbon disulfide

Concen: 47.387 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV031172.D

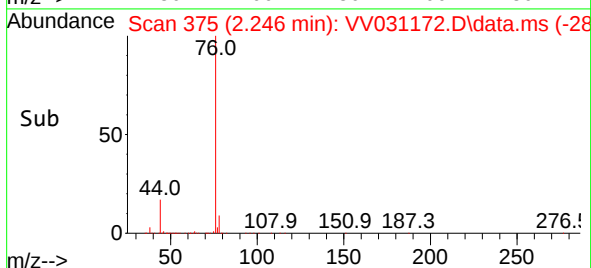
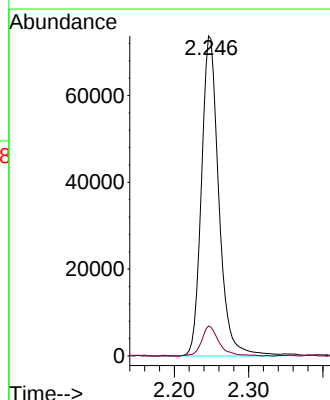
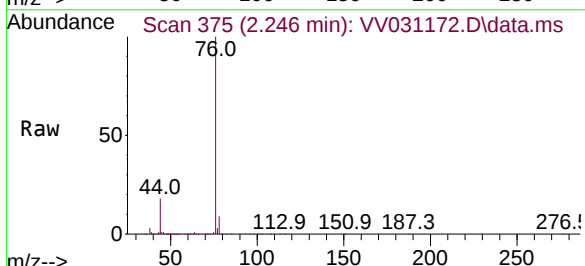
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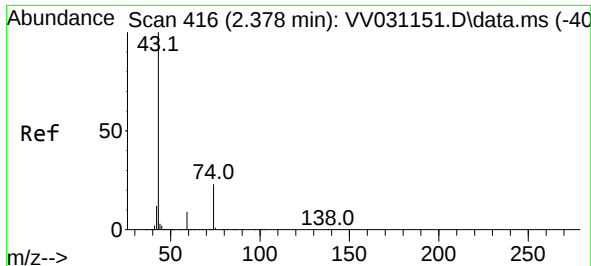
Tgt Ion: 76 Resp: 119756

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.4

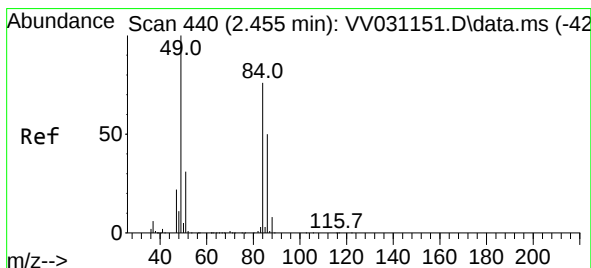
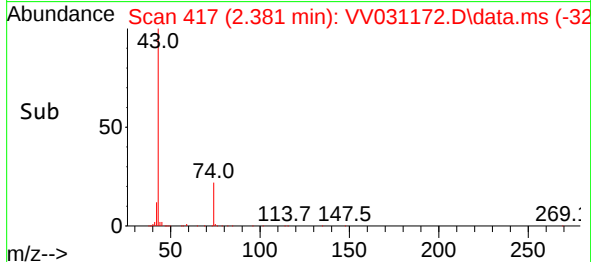
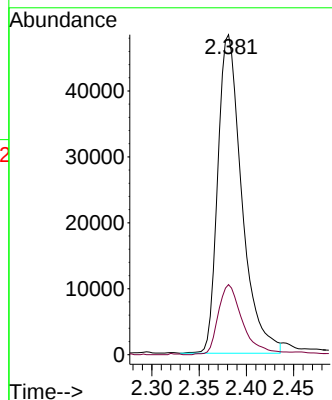
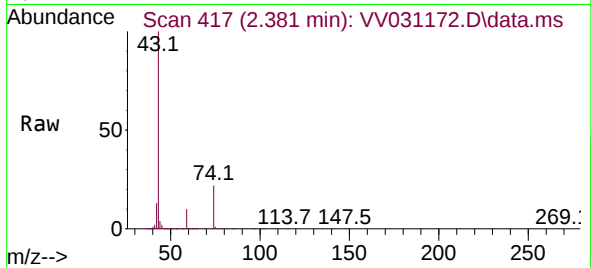




#15
Methyl Acetate
Concen: 50.795 ug/L
RT: 2.381 min Scan# 416
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

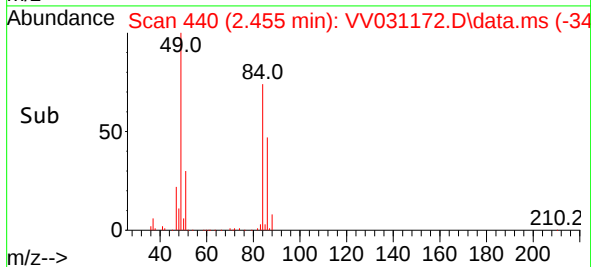
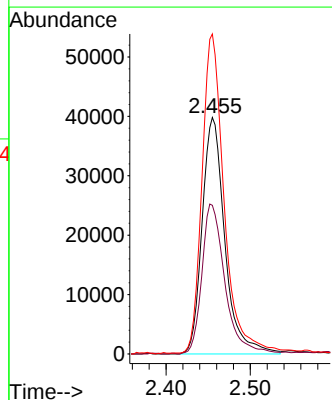
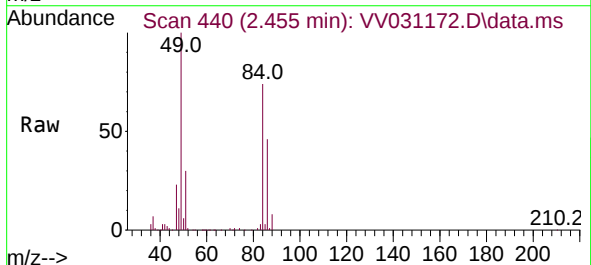
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

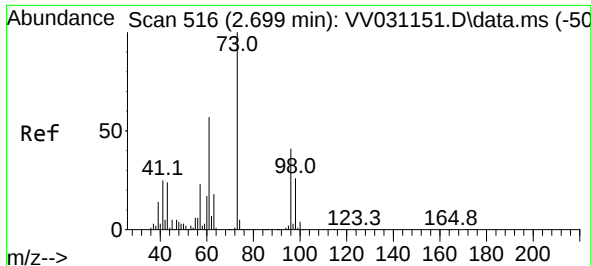
Tgt Ion: 43 Resp: 85326
Ion Ratio Lower Upper
43 100
74 22.7 18.1 27.1



#16
Methylene chloride
Concen: 48.469 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 84 Resp: 74831
Ion Ratio Lower Upper
84 100
86 62.8 43.3 80.3
49 135.3 92.6 172.0

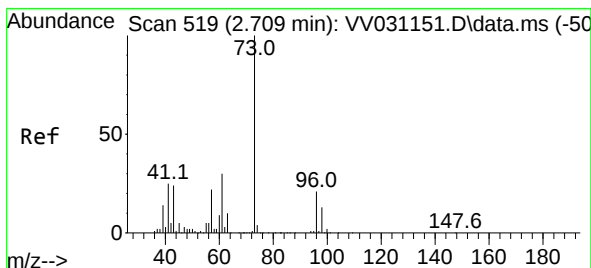
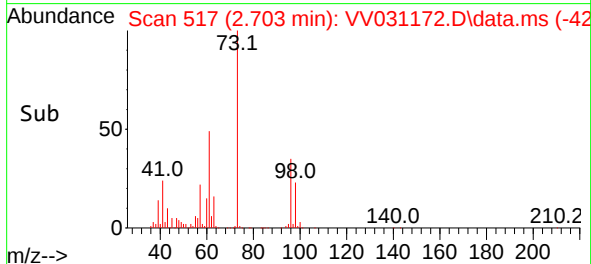
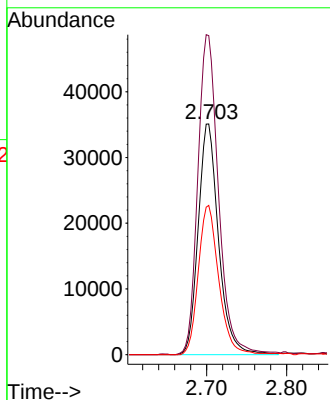
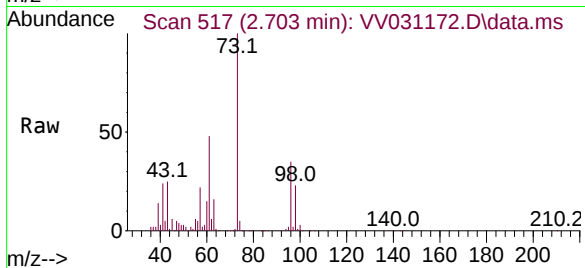




#17
trans-1,2-Dichloroethene
Concen: 48.613 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

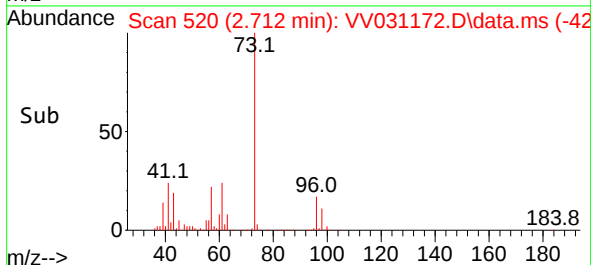
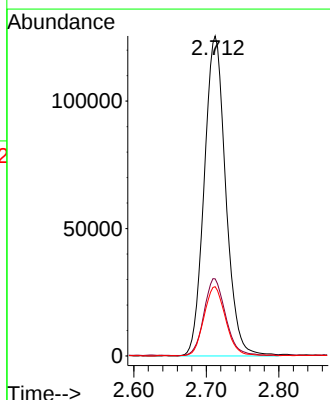
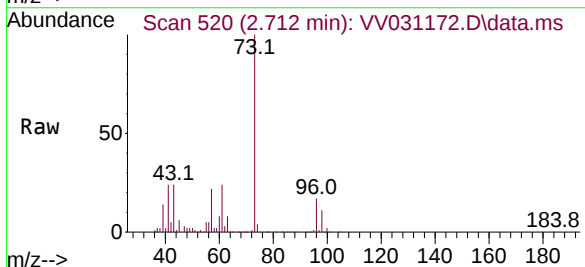
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

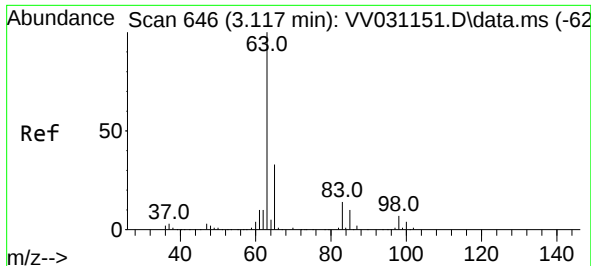
Tgt Ion: 96 Resp: 62331
Ion Ratio Lower Upper
96 100
61 138.3 100.0 185.6
98 64.7 45.4 84.2



#18
Methyl tert-butyl Ether
Concen: 52.307 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 73 Resp: 259084
Ion Ratio Lower Upper
73 100
43 24.0 19.4 29.2
57 21.8 17.1 25.7





#19

1,1-Dichloroethane

Concen: 50.124 ug/L

RT: 3.117 min Scan# 646

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

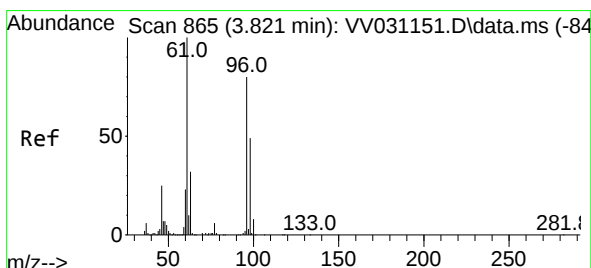
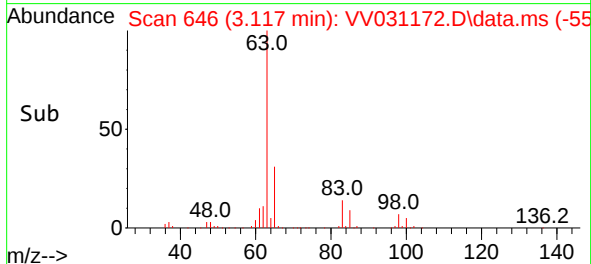
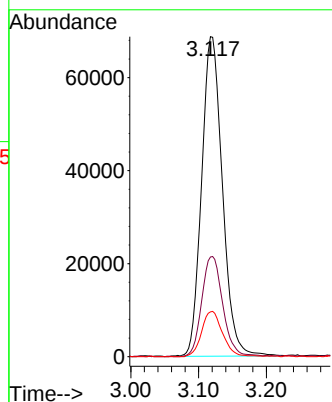
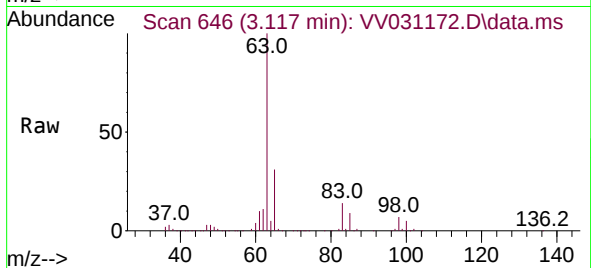
Tgt Ion: 63 Resp: 146466

Ion Ratio Lower Upper

63 100

65 31.1 21.9 40.7

83 14.0 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 49.656 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

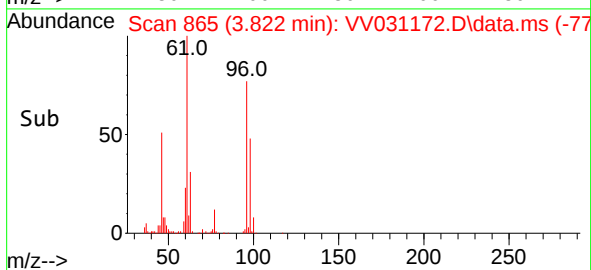
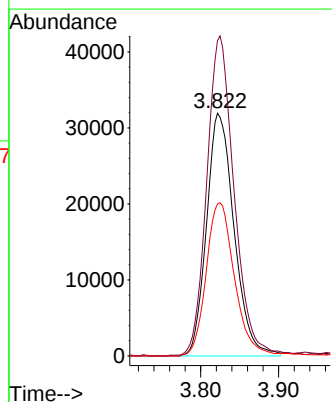
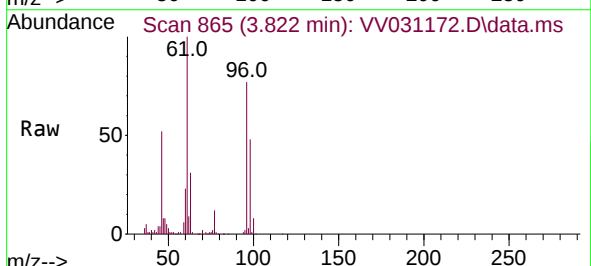
Tgt Ion: 96 Resp: 78488

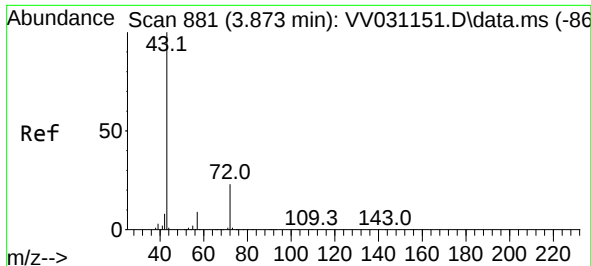
Ion Ratio Lower Upper

96 100

61 129.9 89.2 165.6

98 62.6 43.0 80.0

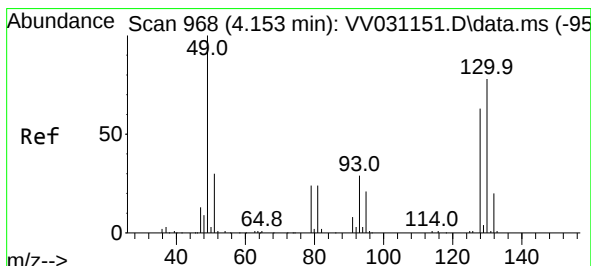
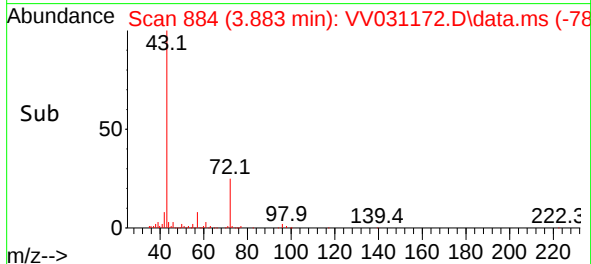
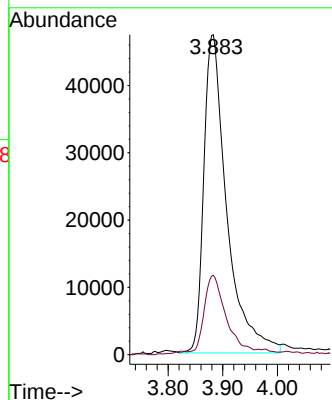
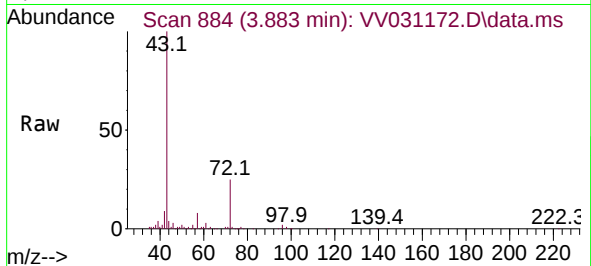




#22
2-Butanone
Concen: 97.274 ug/L
RT: 3.883 min Scan# 881
Delta R.T. 0.010 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

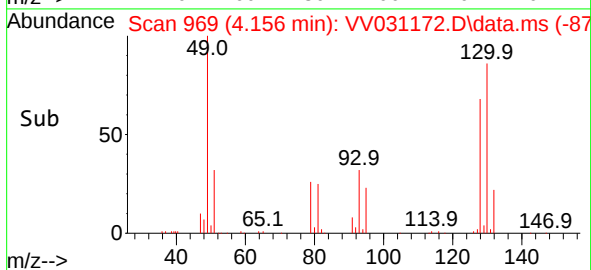
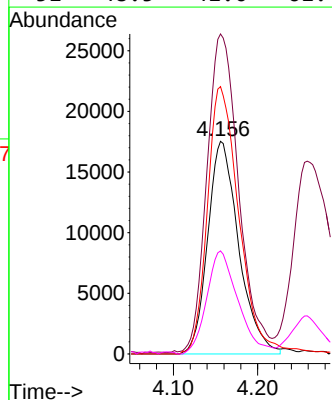
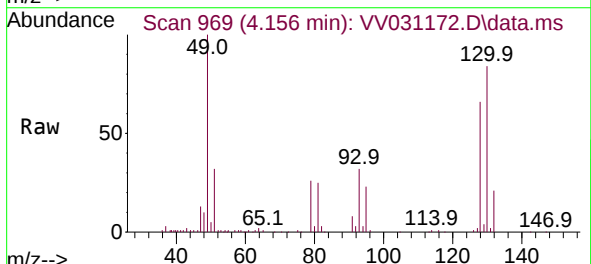
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

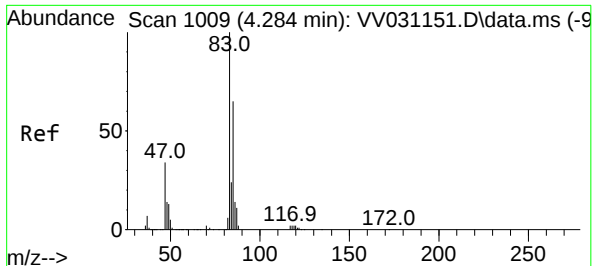
Tgt Ion: 43 Resp: 137872
Ion Ratio Lower Upper
43 100
72 22.2 11.9 35.7



#23
Bromochloromethane
Concen: 51.600 ug/L
RT: 4.156 min Scan# 969
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion:128 Resp: 44820
Ion Ratio Lower Upper
128 100
49 150.5 113.2 210.2
130 125.7 87.5 162.5
51 48.5 41.0 61.4





#25

Chloroform

Concen: 51.299 ug/L

RT: 4.285 min Scan# 1009

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

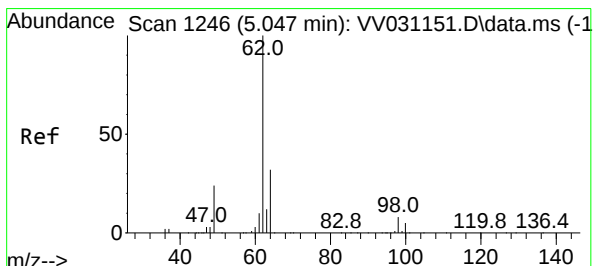
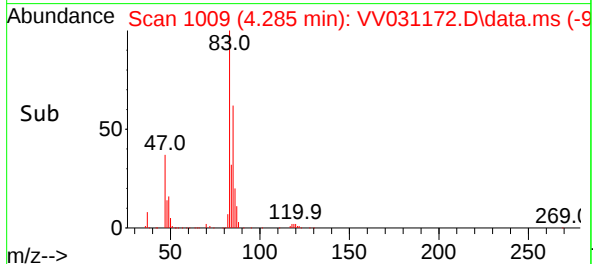
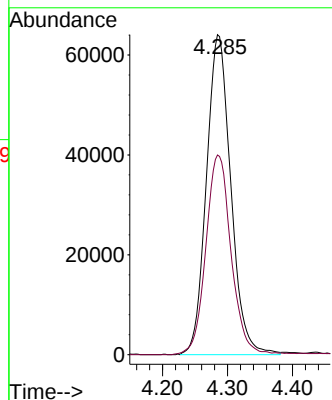
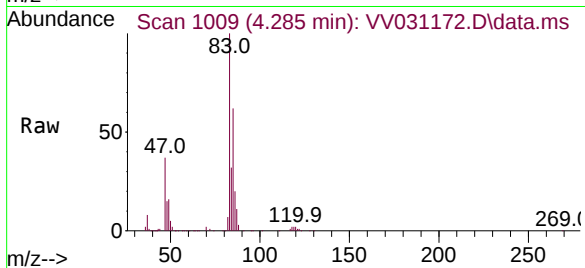
H0FL8MS

Tgt Ion: 83 Resp: 167451

Ion Ratio Lower Upper

83 100

85 62.4 47.3 87.9



#27

1,2-Dichloroethane

Concen: 52.023 ug/L

RT: 5.050 min Scan# 1247

Delta R.T. 0.003 min

Lab File: VV031172.D

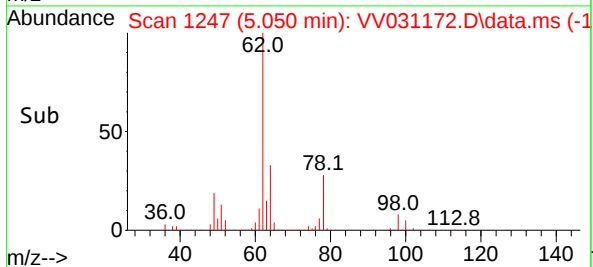
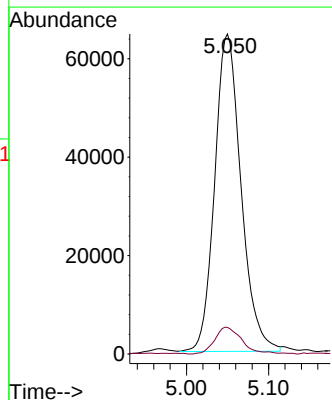
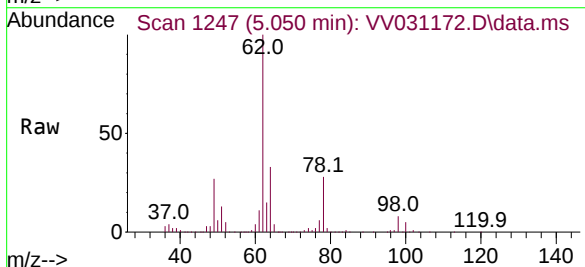
Acq: 22 May 2023 17:43

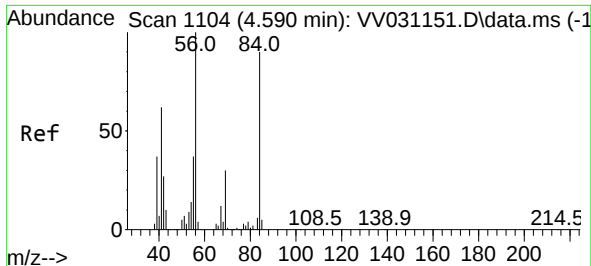
Tgt Ion: 62 Resp: 144081

Ion Ratio Lower Upper

62 100

98 8.3 6.3 9.5





#29

Cyclohexane

Concen: 62.377 ug/L

RT: 4.593 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

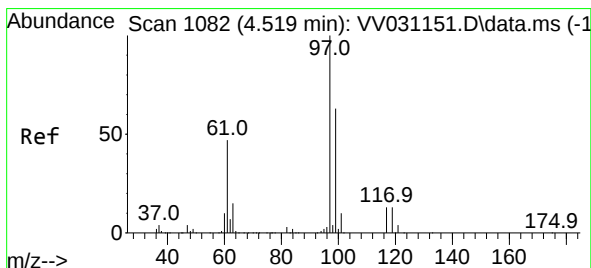
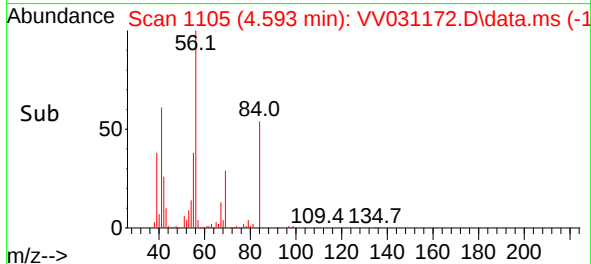
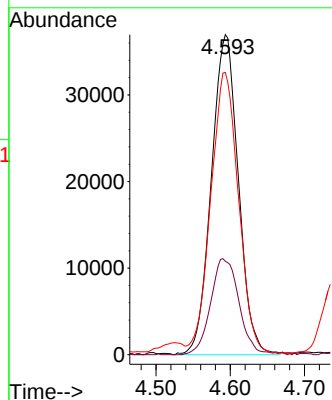
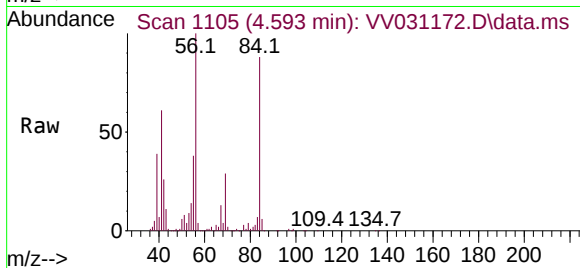
Tgt Ion: 56 Resp: 93409

Ion Ratio Lower Upper

56 100

69 31.4 25.1 37.7

84 89.9 71.5 107.3



#30

1,1,1-Trichloroethane

Concen: 64.996 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

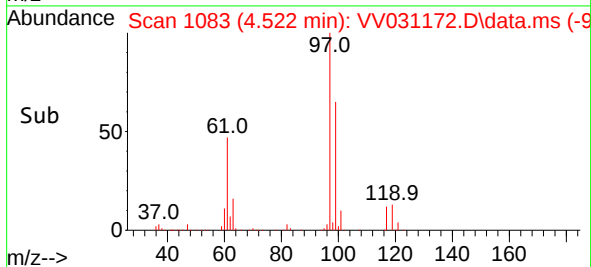
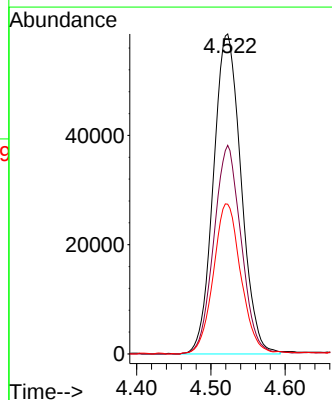
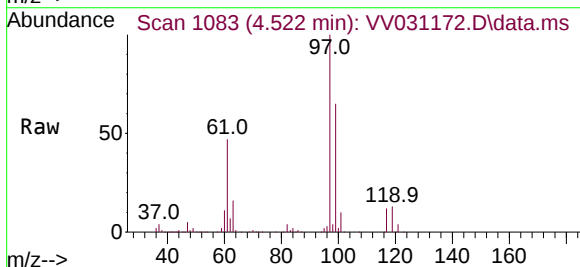
Tgt Ion: 97 Resp: 151780

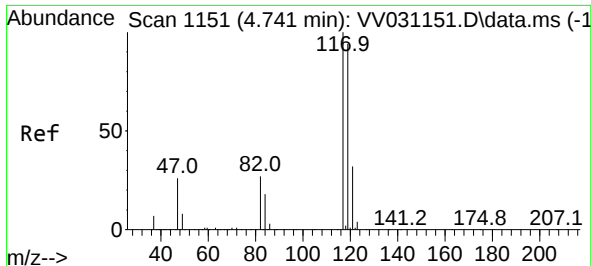
Ion Ratio Lower Upper

97 100

99 64.6 51.9 77.9

61 46.6 38.2 57.2

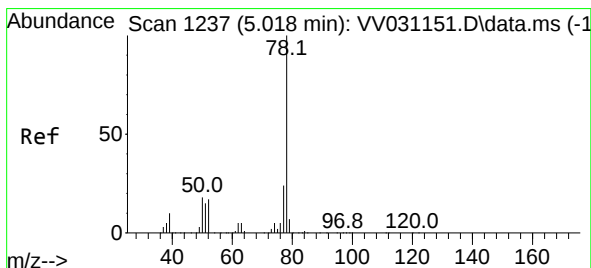
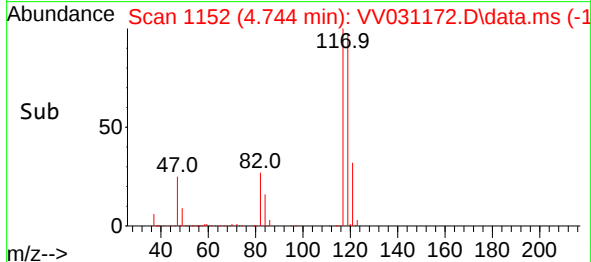
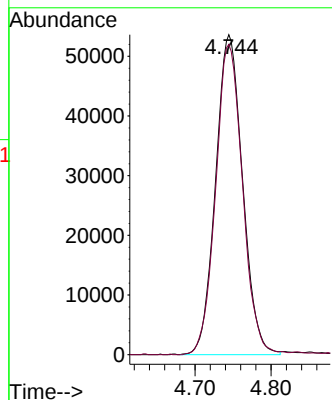
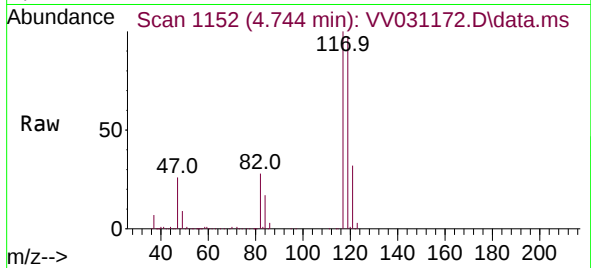




#31
Carbon tetrachloride
Concen: 64.969 ug/L
RT: 4.744 min Scan# 1151
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

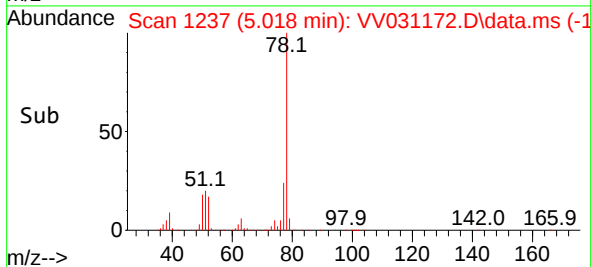
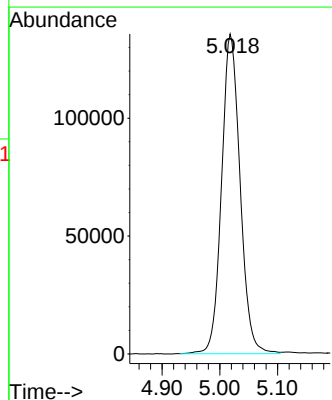
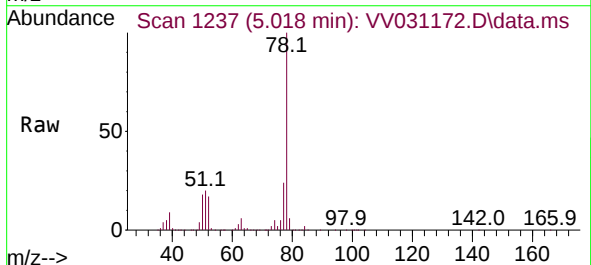
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

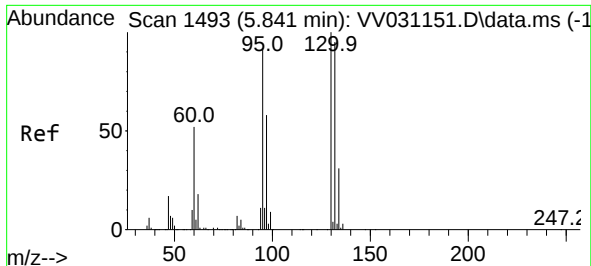
Tgt Ion:117 Resp: 132172
Ion Ratio Lower Upper
117 100
119 96.4 76.9 115.3



#33
Benzene
Concen: 66.354 ug/L
RT: 5.018 min Scan# 1237
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 78 Resp: 302516

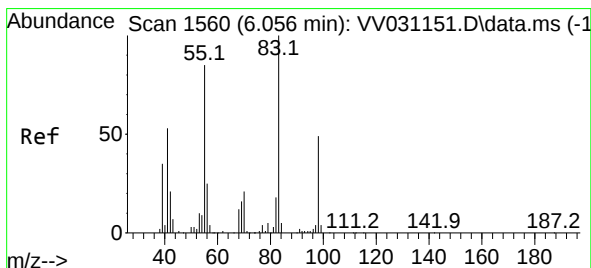
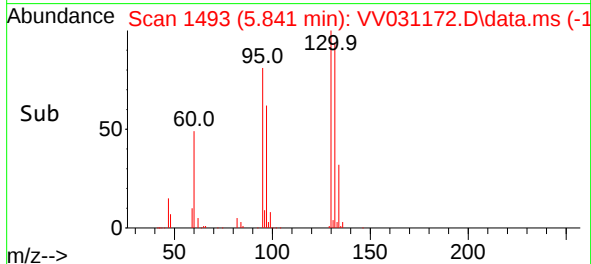
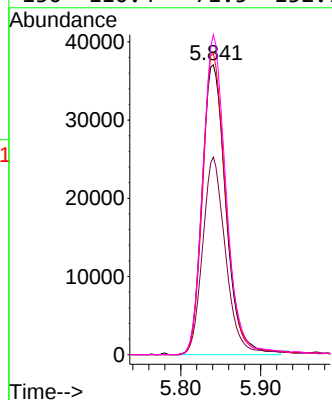
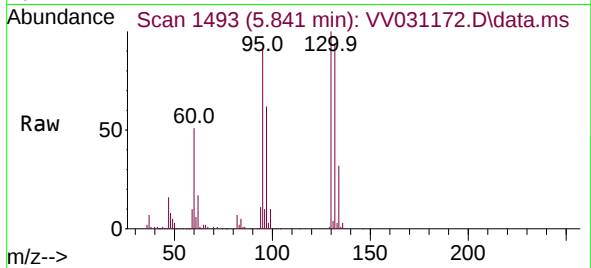




#34
Trichloroethene
Concen: 62.885 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

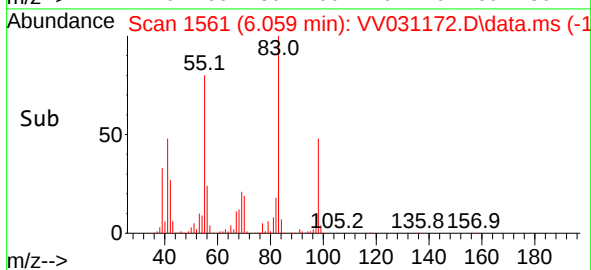
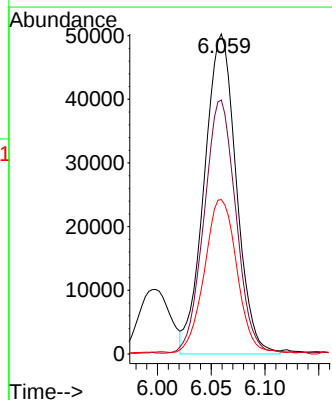
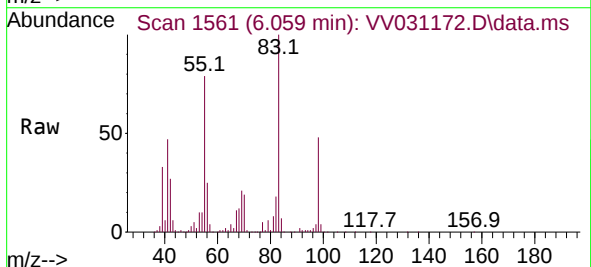
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

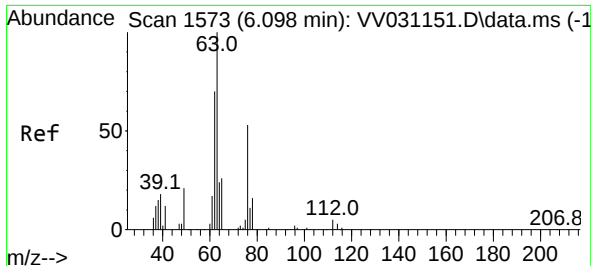
Tgt Ion: 95 Resp: 76820
Ion Ratio Lower Upper
95 100
97 68.2 44.4 82.5
132 104.1 70.2 130.4
130 110.4 71.5 132.7



#35
Methylcyclohexane
Concen: 64.123 ug/L
RT: 6.059 min Scan# 1561
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 83 Resp: 103944
Ion Ratio Lower Upper
83 100
55 78.8 64.2 96.2
98 49.5 40.0 60.0





#37

1,2-Dichloropropane

Concen: 64.249 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

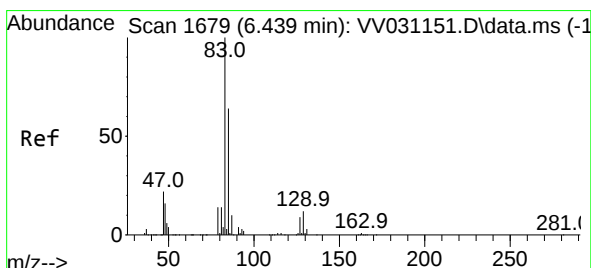
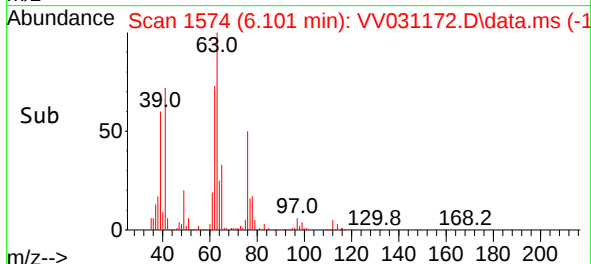
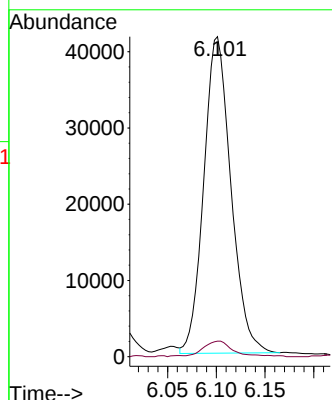
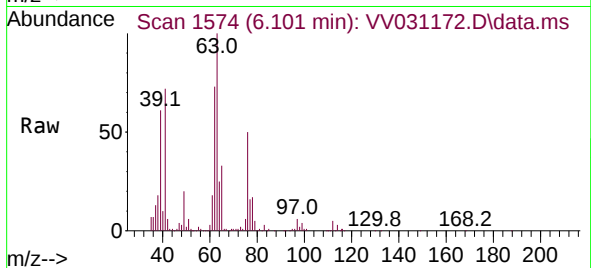
H0FL8MS

Tgt Ion: 63 Resp: 80622

Ion Ratio Lower Upper

63 100

112 5.2 4.3 6.5



#38

Bromodichloromethane

Concen: 63.422 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

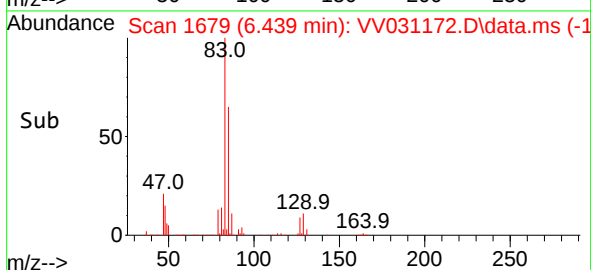
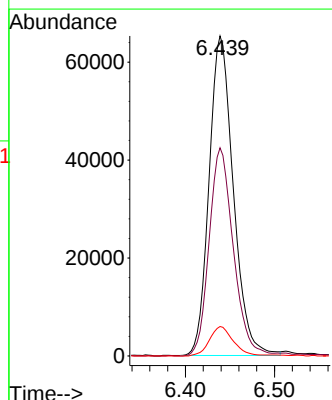
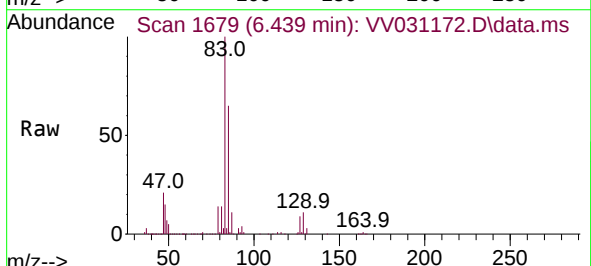
Tgt Ion: 83 Resp: 123369

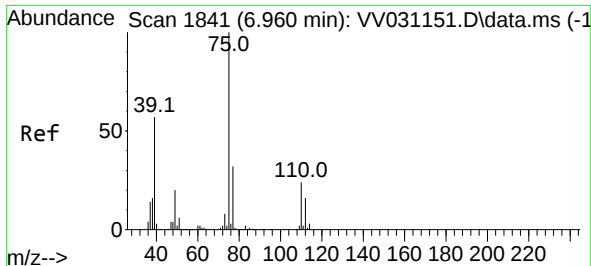
Ion Ratio Lower Upper

83 100

85 65.1 44.0 81.6

127 9.2 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 65.956 ug/L

RT: 6.960 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

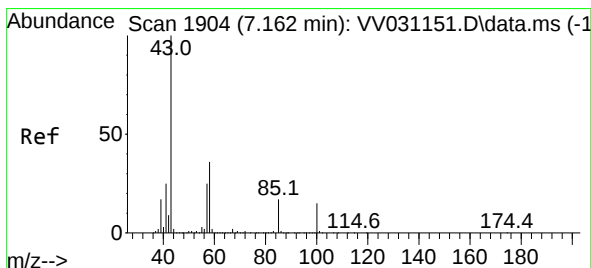
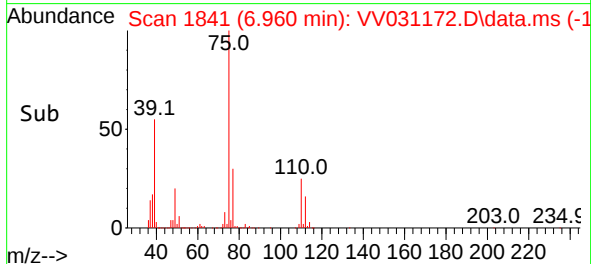
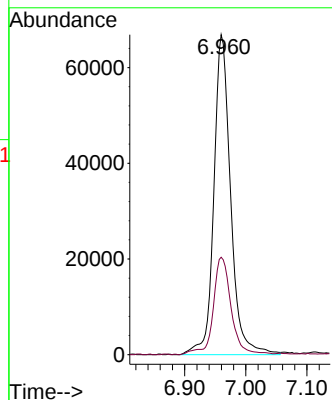
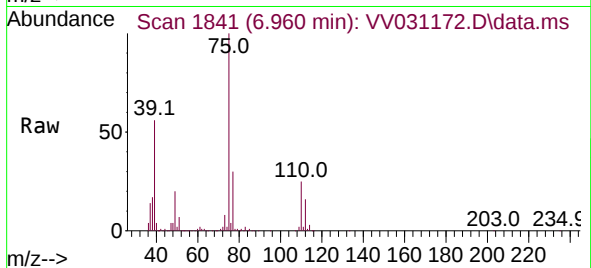
H0FL8MS

Tgt Ion: 75 Resp: 127622

Ion Ratio Lower Upper

75 100

77 30.4 22.3 41.3



#40

4-Methyl-2-pentanone

Concen: 120.391 ug/L

RT: 7.165 min Scan# 1905

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

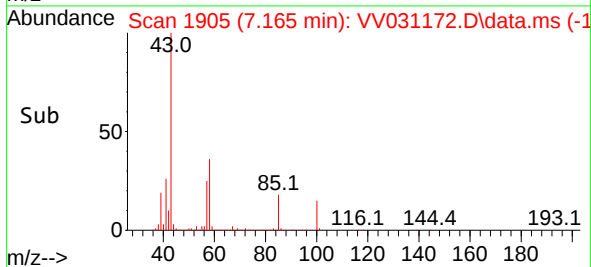
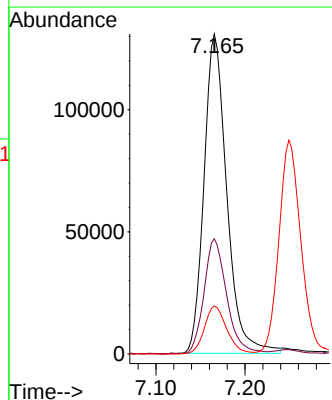
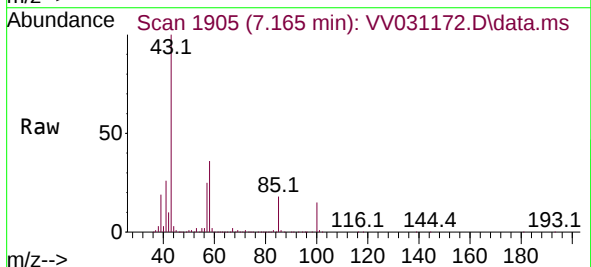
Tgt Ion: 43 Resp: 232467

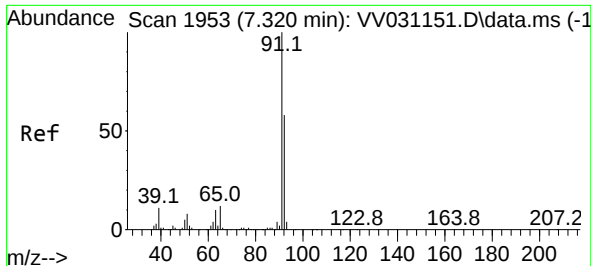
Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.4

100 14.8 12.2 18.4





#42

Toluene

Concen: 60.463 ug/L

RT: 7.323 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

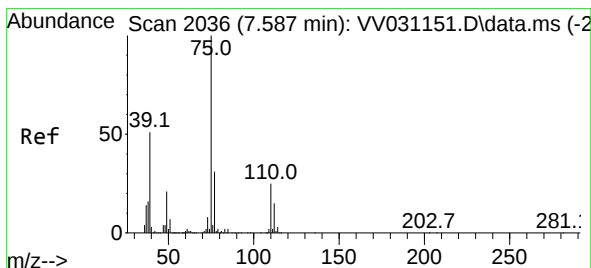
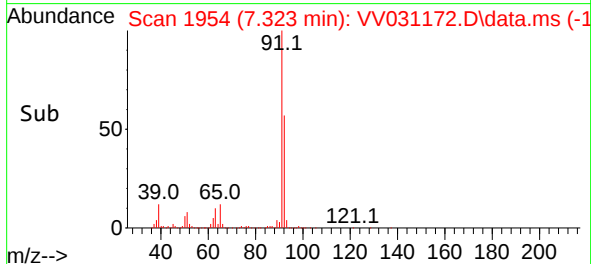
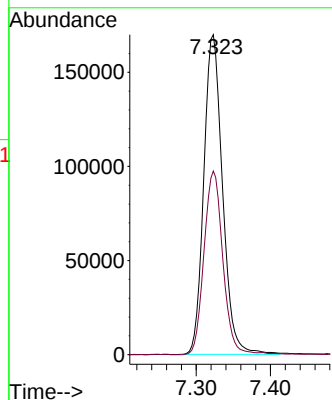
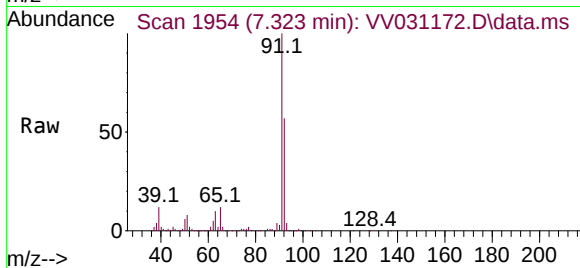
H0FL8MS

Tgt Ion: 91 Resp: 298242

Ion Ratio Lower Upper

91 100

92 57.4 40.9 76.0



#44

trans-1,3-Dichloropropene

Concen: 60.629 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. 0.000 min

Lab File: VV031172.D

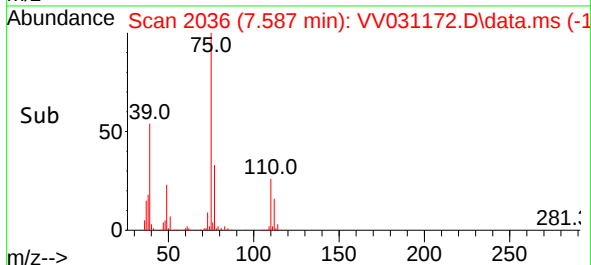
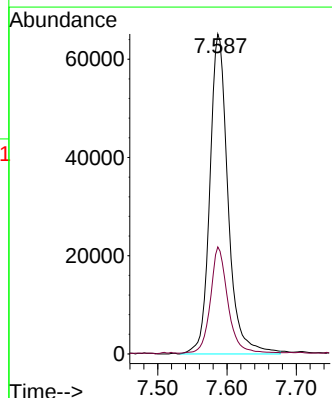
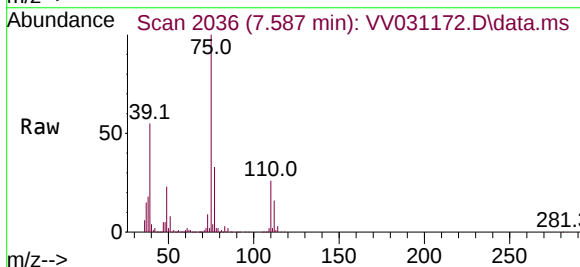
Acq: 22 May 2023 17:43

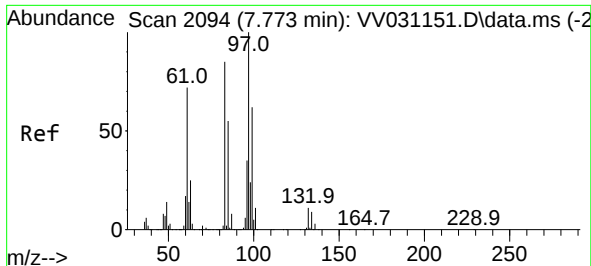
Tgt Ion: 75 Resp: 118680

Ion Ratio Lower Upper

75 100

77 33.4 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 57.449 ug/L

RT: 7.776 min Scan# 2094

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

Tgt Ion: 97 Resp: 78665

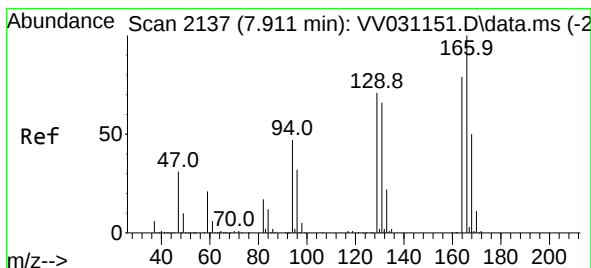
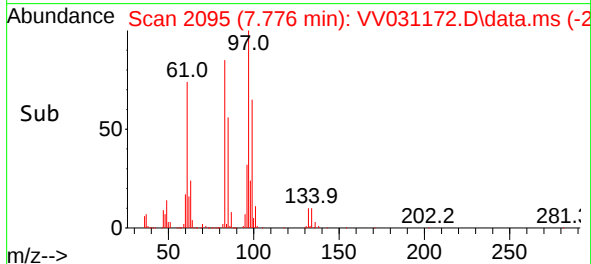
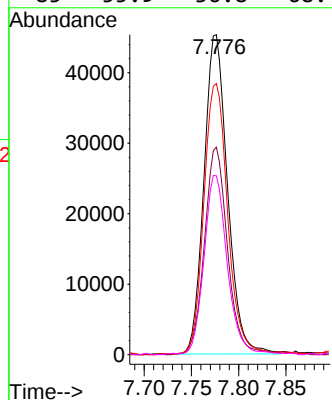
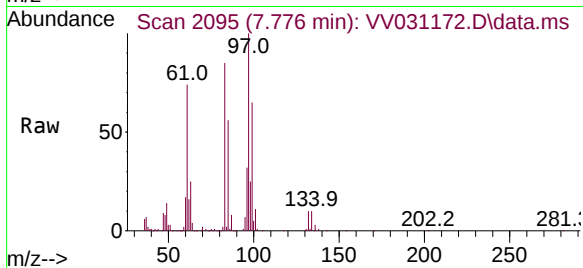
Ion Ratio Lower Upper

97 100

99 64.8 43.2 80.2

83 84.7 60.5 112.3

85 55.9 36.8 68.4



#46

Tetrachloroethene

Concen: 59.001 ug/L

RT: 7.911 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Tgt Ion: 164 Resp: 61890

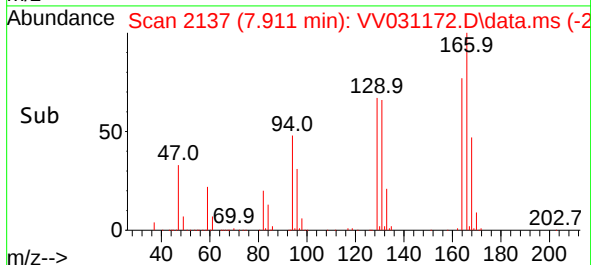
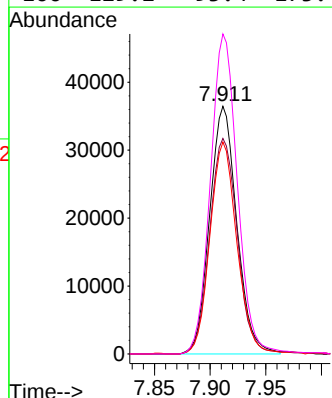
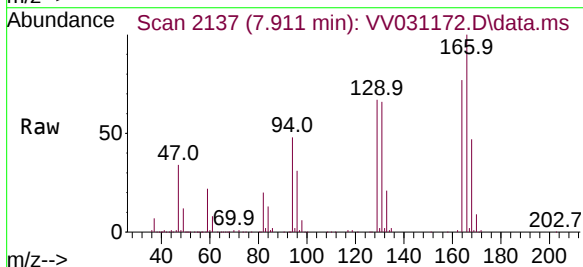
Ion Ratio Lower Upper

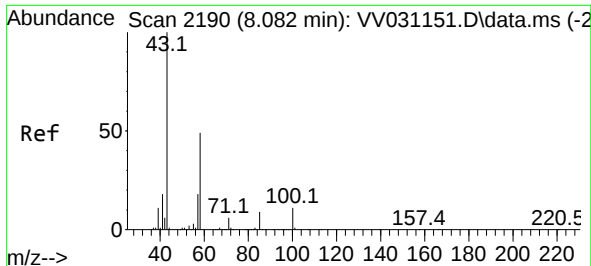
164 100

129 87.0 65.5 121.7

131 85.5 62.1 115.3

166 129.2 93.4 173.4

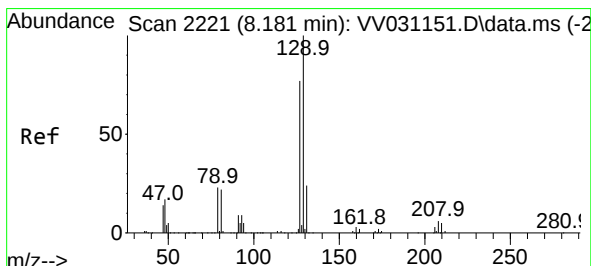
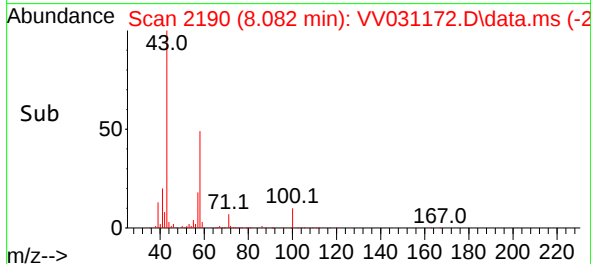
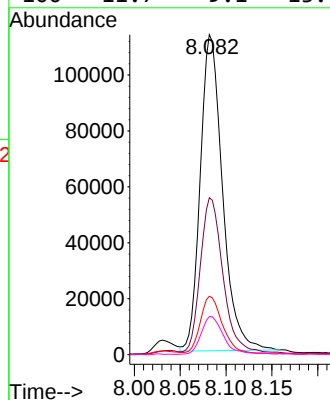
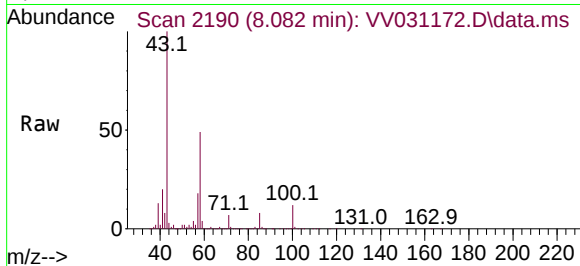




#48
2-Hexanone
Concen: 119.016 ug/L
RT: 8.082 min Scan# 2190
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

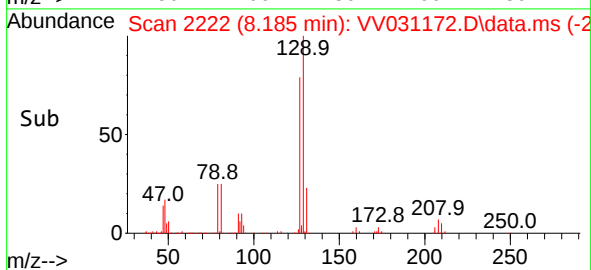
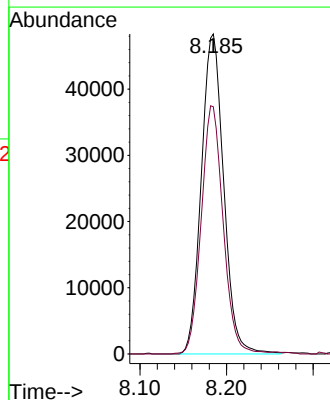
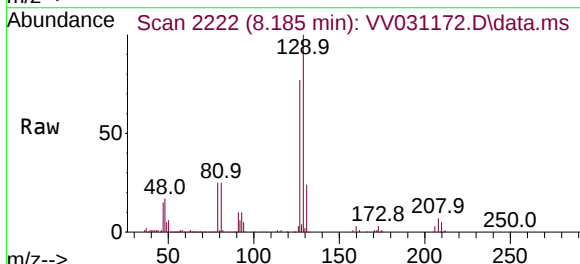
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

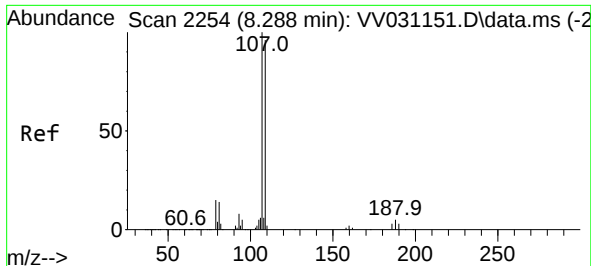
Tgt Ion: 43	Resp: 191410
Ion Ratio	Lower Upper
43 100	
58 50.4	39.8 59.6
57 18.4	14.4 21.6
100 11.7	9.1 13.7



#49
Dibromochloromethane
Concen: 56.131 ug/L
RT: 8.185 min Scan# 2222
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion:129	Resp:	86718	
Ion	Ratio	Lower	Upper
129	100		
127	77.3	56.1	104.1





#50

1,2-Dibromoethane

Concen: 54.313 ug/L

RT: 8.288 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

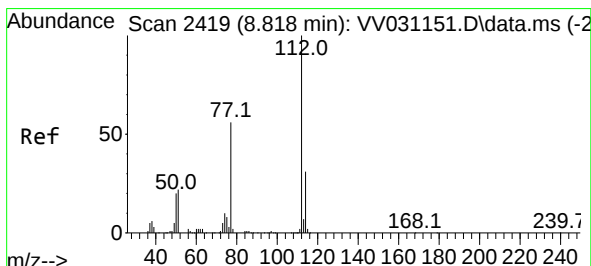
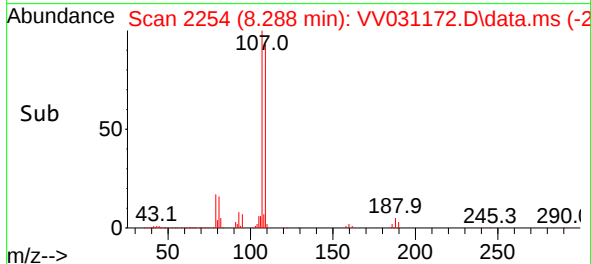
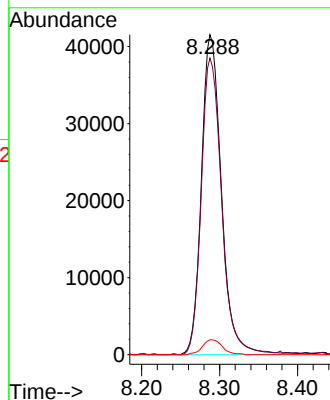
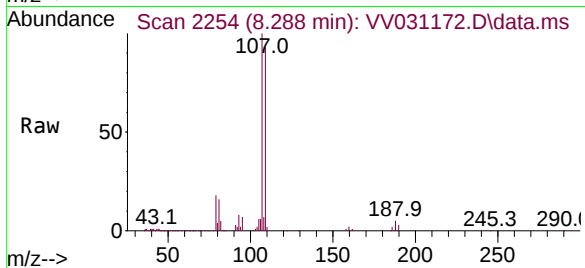
Tgt Ion:107 Resp: 73942

Ion Ratio Lower Upper

107 100

109 92.7 65.6 121.8

188 4.9 3.8 5.6



#51

Chlorobenzene

Concen: 49.484 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

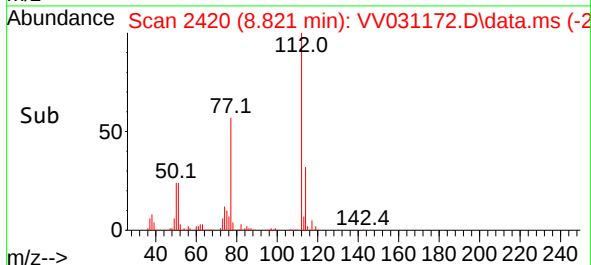
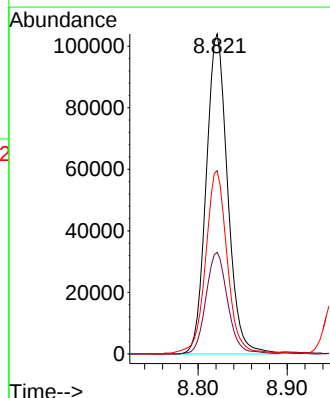
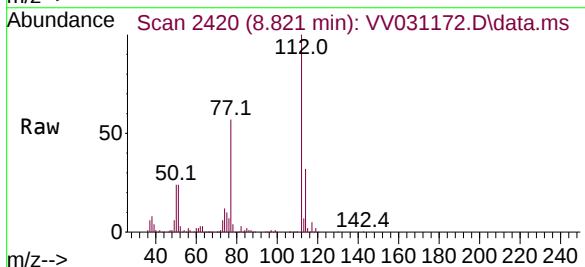
Tgt Ion:112 Resp: 173729

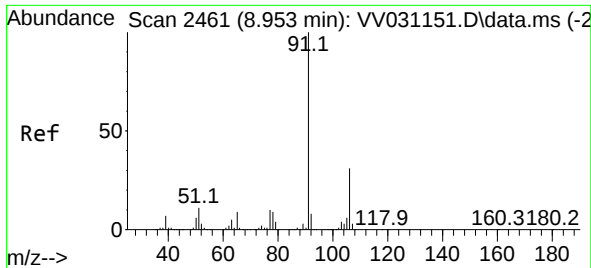
Ion Ratio Lower Upper

112 100

114 31.7 23.0 42.8

77 57.3 46.2 69.4

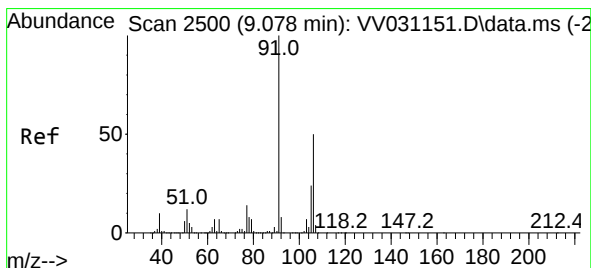
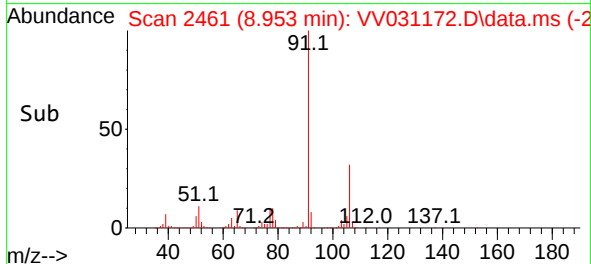
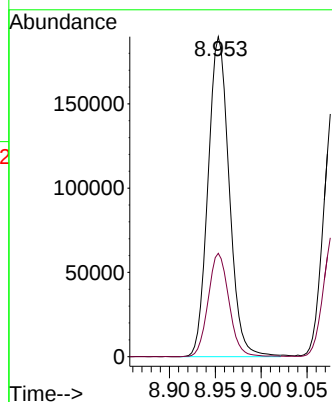
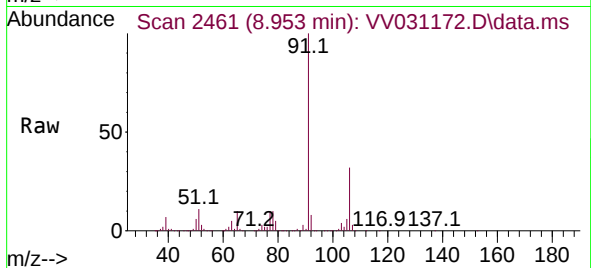




#52
Ethylbenzene
Concen: 53.969 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

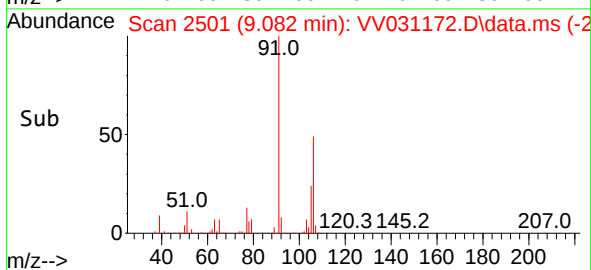
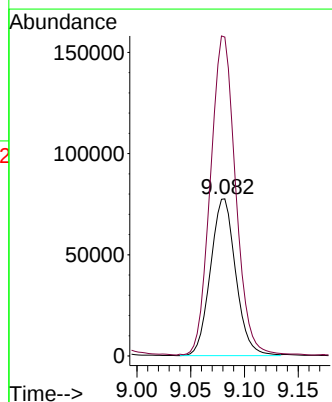
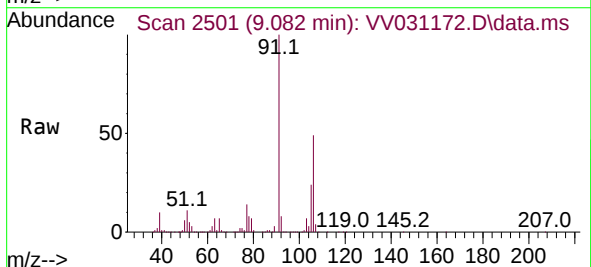
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

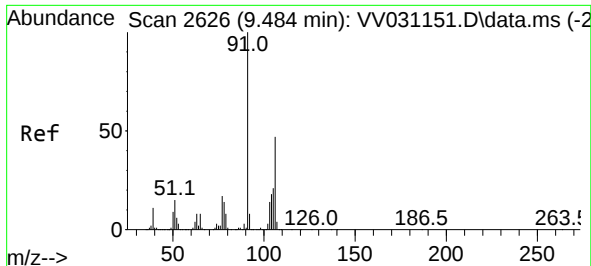
Tgt Ion: 91 Resp: 304788
Ion Ratio Lower Upper
91 100
106 32.3 21.5 39.9



#53
m,p-Xylene
Concen: 57.696 ug/L
RT: 9.082 min Scan# 2501
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 106 Resp: 126394
Ion Ratio Lower Upper
106 100
91 202.9 145.3 269.8

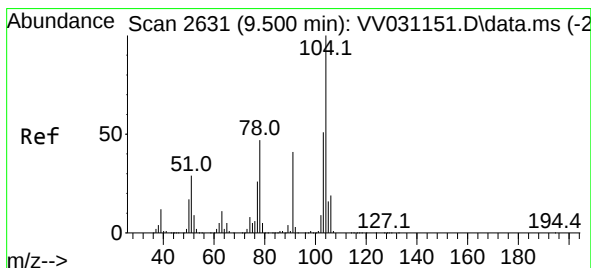
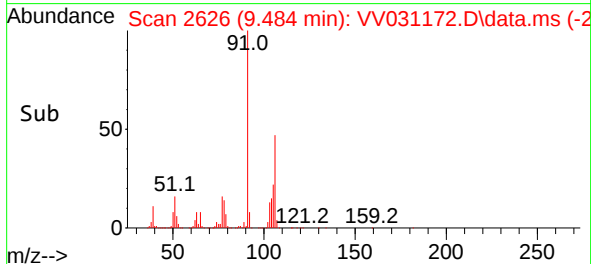
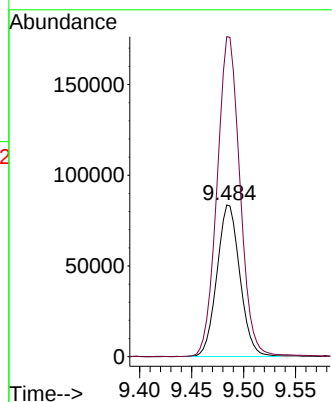
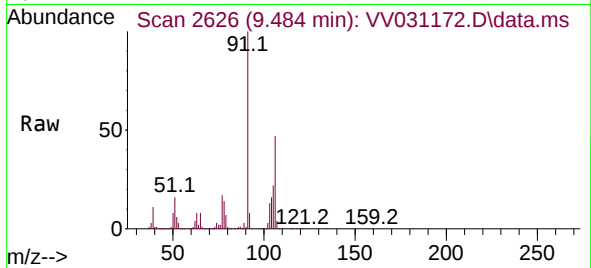




#54
o-Xylene
Concen: 59.358 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

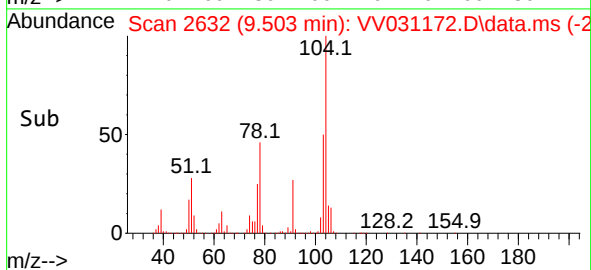
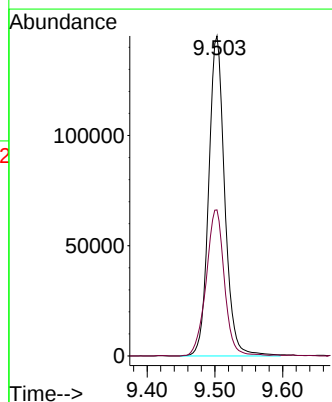
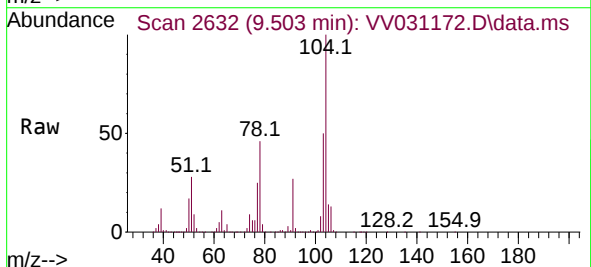
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

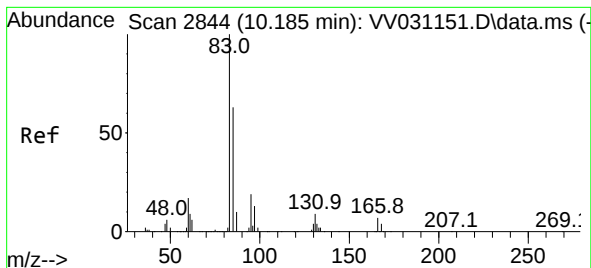
Tgt Ion:106 Resp: 128279
Ion Ratio Lower Upper
106 100
91 211.0 150.4 279.2



#55
Styrene
Concen: 62.453 ug/L
RT: 9.503 min Scan# 2632
Delta R.T. 0.003 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion:104 Resp: 238704
Ion Ratio Lower Upper
104 100
78 45.7 33.2 61.6

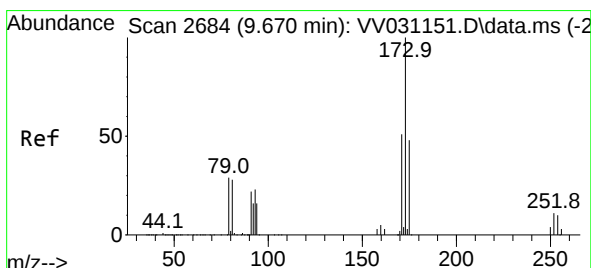
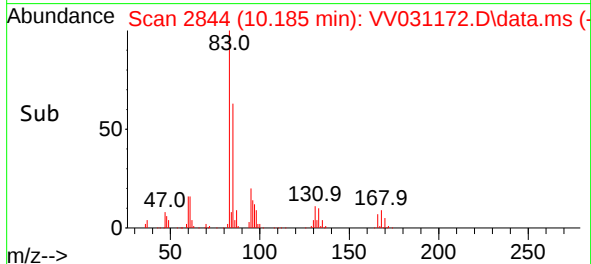
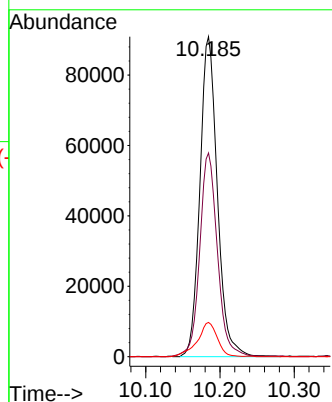
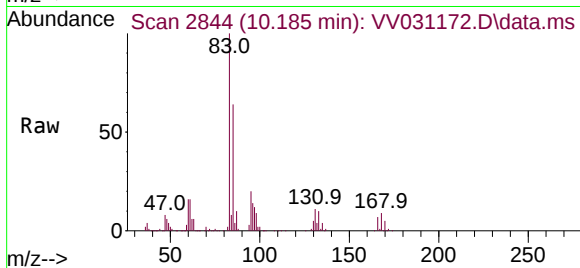




#57
1,1,2,2-Tetrachloroethane
Concen: 66.076 ug/L
RT: 10.185 min Scan# 2844
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

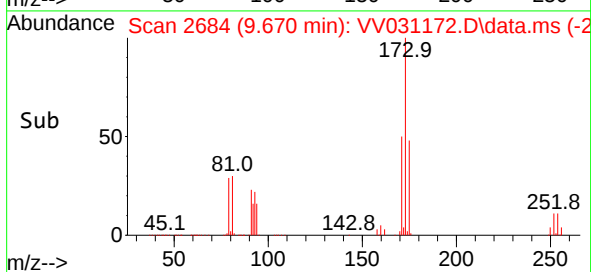
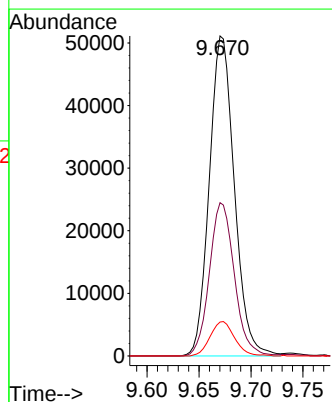
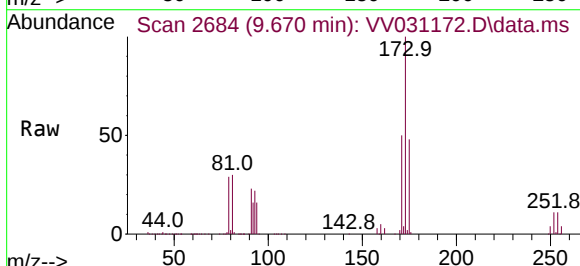
Instrument :
MSVOA_V
ClientSampleId :
H0FL8MS

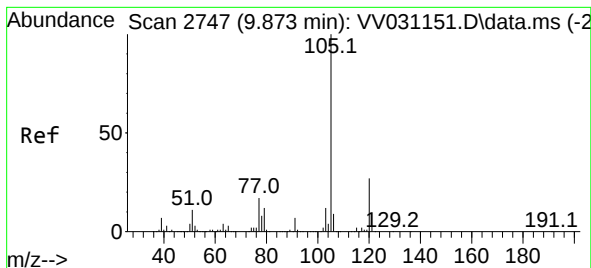
Tgt Ion: 83 Resp: 148660
Ion Ratio Lower Upper
83 100
85 63.7 45.0 83.6
131 10.7 9.2 13.8



#59
Bromoform
Concen: 49.112 ug/L
RT: 9.670 min Scan# 2684
Delta R.T. 0.000 min
Lab File: VV031172.D
Acq: 22 May 2023 17:43

Tgt Ion: 173 Resp: 85691
Ion Ratio Lower Upper
173 100
175 47.5 38.8 58.2
254 10.4 8.8 13.2





#60

Isopropylbenzene

Concen: 49.199 ug/L

RT: 9.873 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

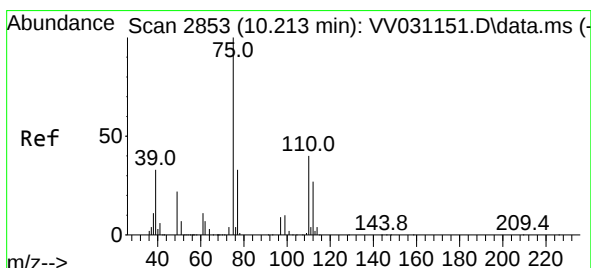
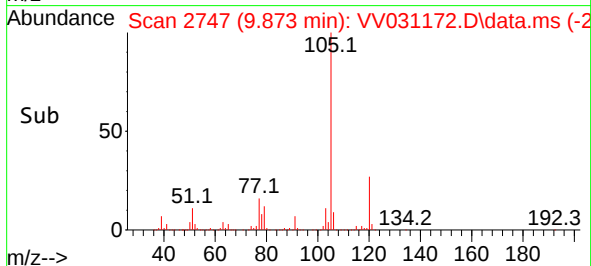
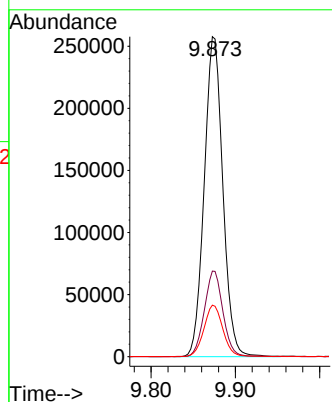
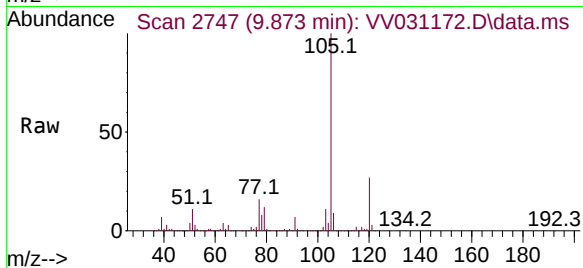
Tgt Ion:105 Resp: 395941

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

77 16.2 13.0 19.6



#61

1,2,3-Trichloropropane

Concen: 49.338 ug/L

RT: 10.217 min Scan# 2854

Delta R.T. 0.003 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

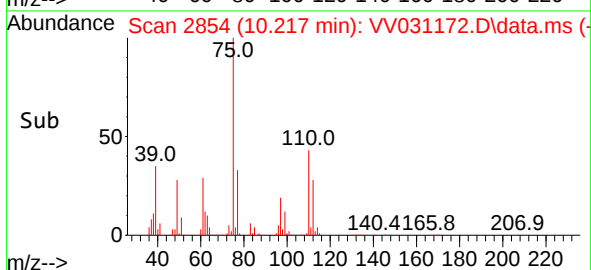
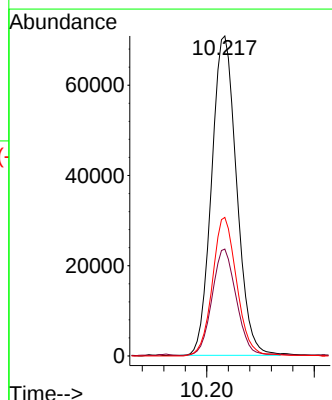
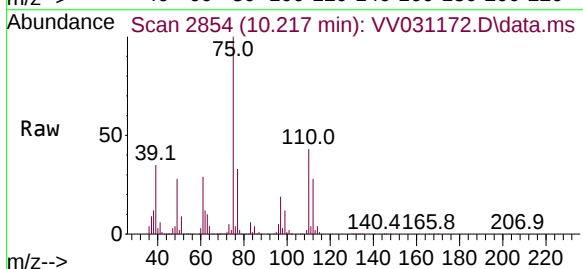
Tgt Ion: 75 Resp: 114215

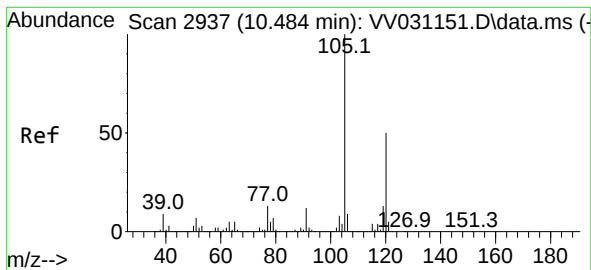
Ion Ratio Lower Upper

75 100

77 32.1 25.5 38.3

110 42.3 32.5 48.7

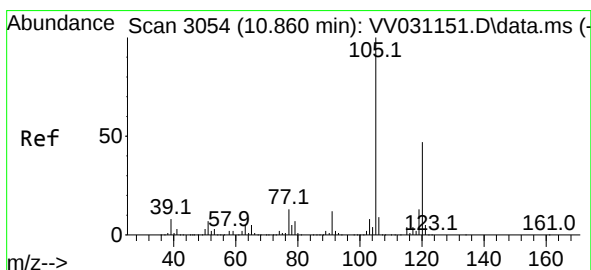
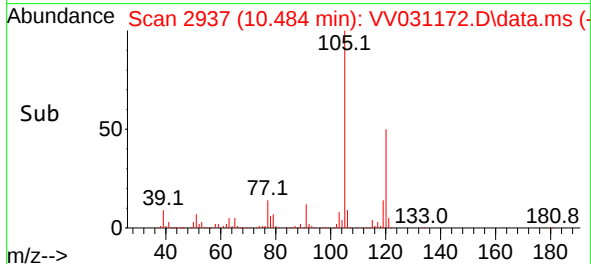
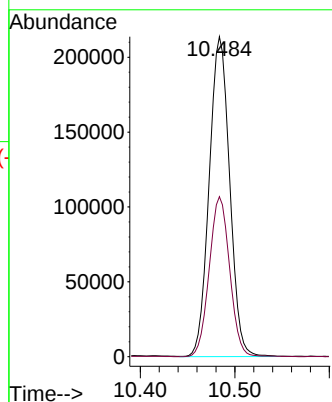
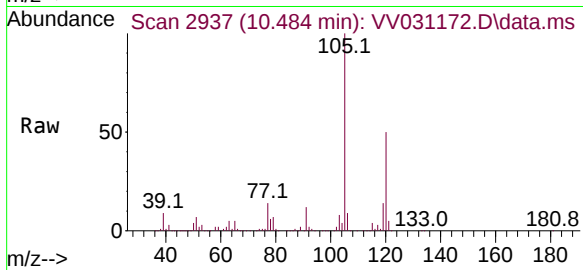




#62
 1,3,5-Trimethylbenzene
 Concen: 48.583 ug/L
 RT: 10.484 min Scan# 2937
 Delta R.T. 0.000 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

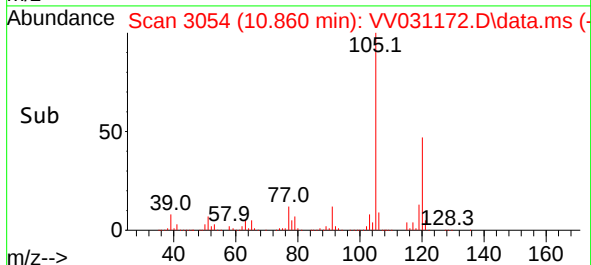
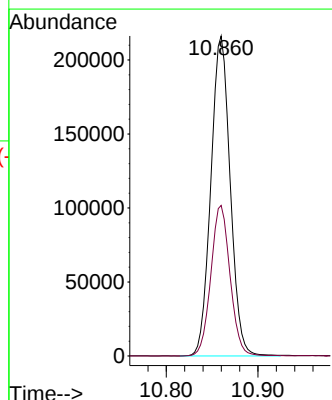
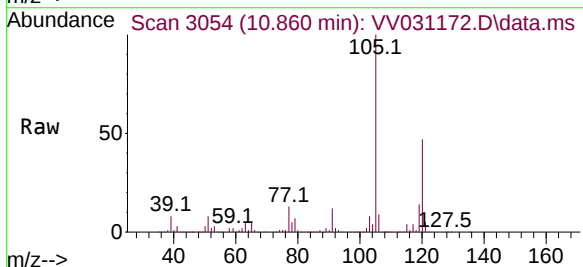
Instrument :
 MSVOA_V
 ClientSampleId :
 H0FL8MS

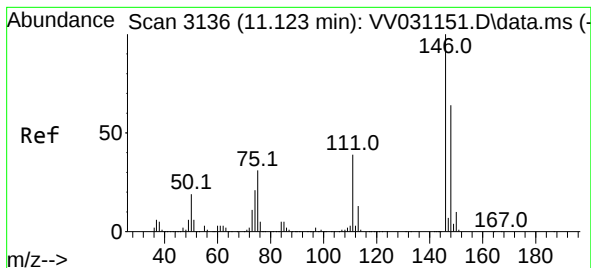
Tgt Ion:105 Resp: 321385
 Ion Ratio Lower Upper
 105 100
 120 50.0 40.5 60.7



#63
 1,2,4-Trimethylbenzene
 Concen: 49.088 ug/L
 RT: 10.860 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VV031172.D
 Acq: 22 May 2023 17:43

Tgt Ion:105 Resp: 317507
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.5 56.3





#64

1,3-Dichlorobenzene

Concen: 48.853 ug/L

RT: 11.124 min Scan# 3136

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

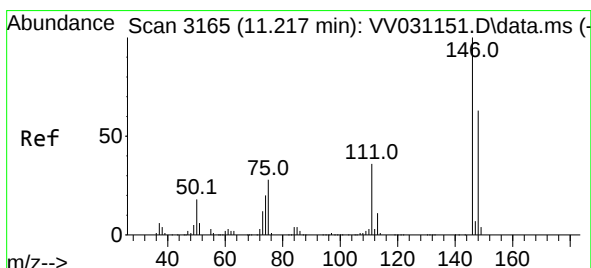
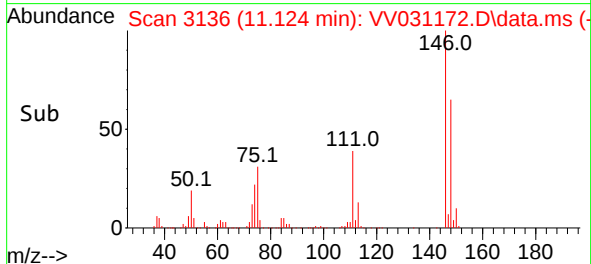
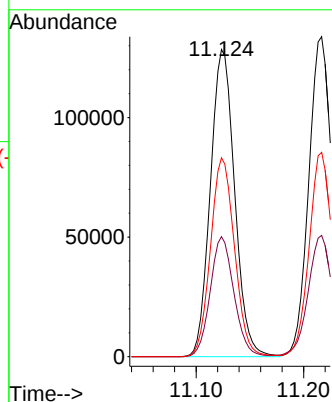
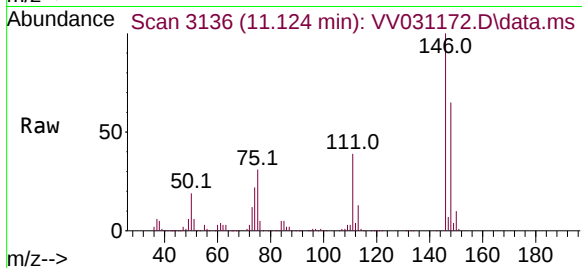
Tgt Ion:146 Resp: 201450

Ion Ratio Lower Upper

146 100

111 39.1 27.2 50.4

148 64.8 44.4 82.5



#65

1,4-Dichlorobenzene

Concen: 49.086 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

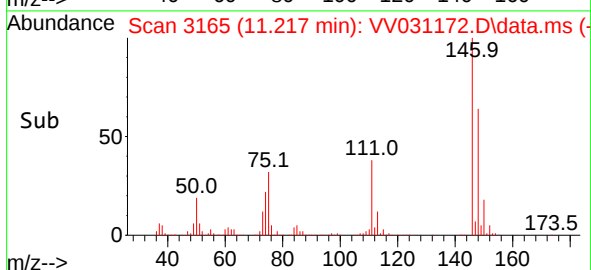
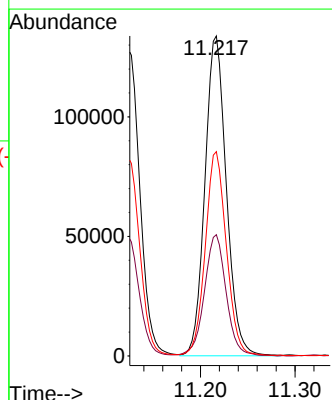
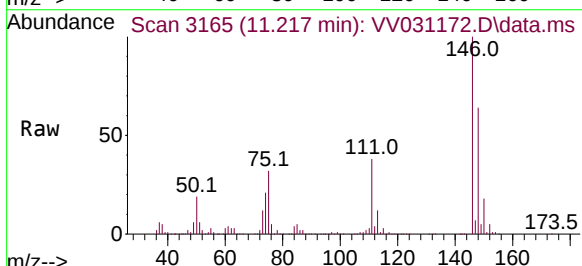
Tgt Ion:146 Resp: 210575

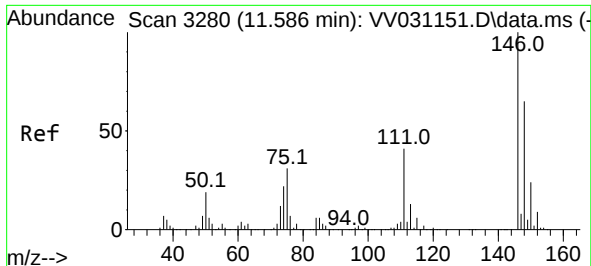
Ion Ratio Lower Upper

146 100

111 37.9 25.5 47.3

148 63.9 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 48.572 ug/L

RT: 11.586 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

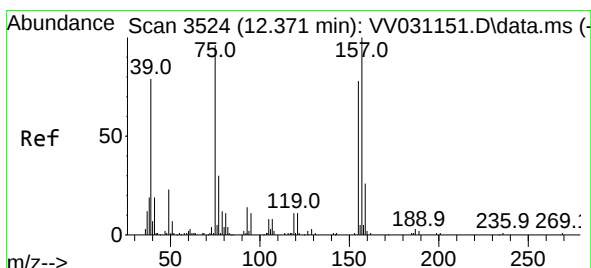
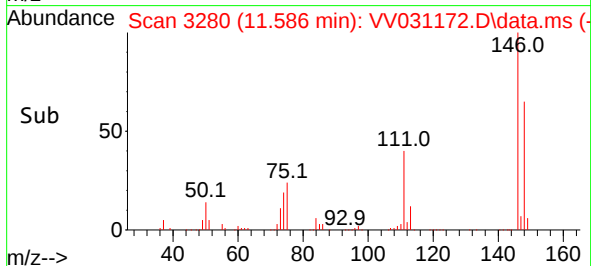
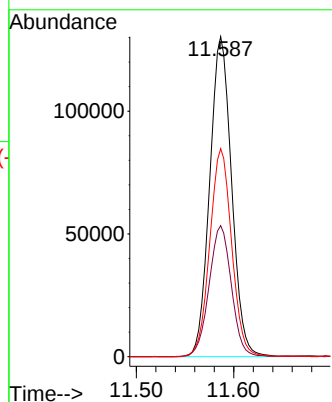
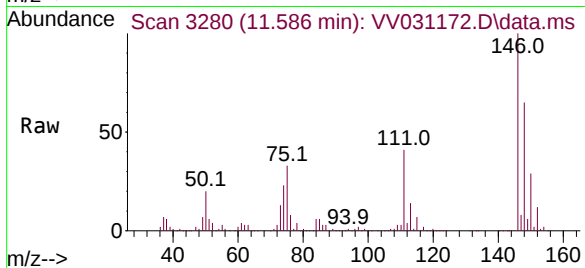
Tgt Ion:146 Resp: 203230

Ion Ratio Lower Upper

146 100

111 41.0 31.4 47.2

148 65.0 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 46.782 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

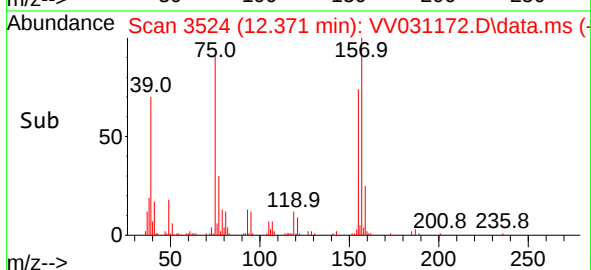
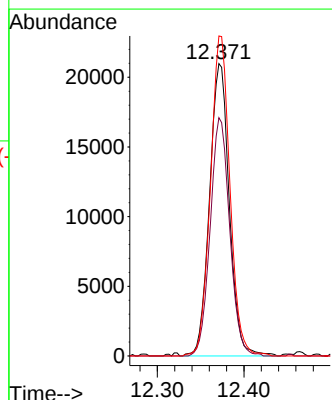
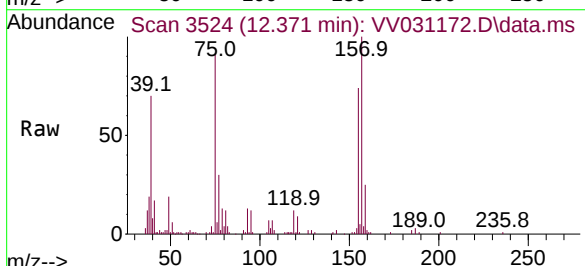
Tgt Ion: 75 Resp: 33244

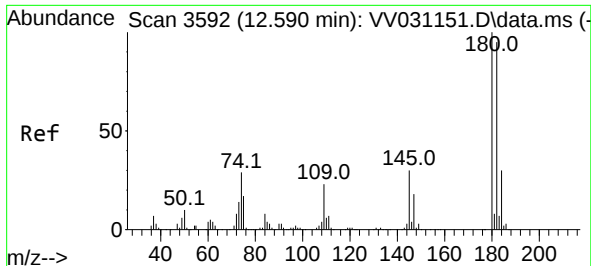
Ion Ratio Lower Upper

75 100

155 81.5 70.9 106.3

157 109.5 88.1 132.1





#69

1,3,5-Trichlorobenzene

Concen: 48.024 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

Tgt Ion:180 Resp: 153086

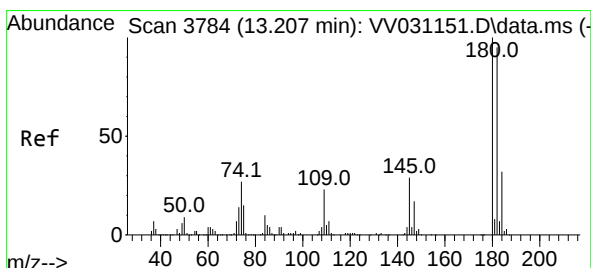
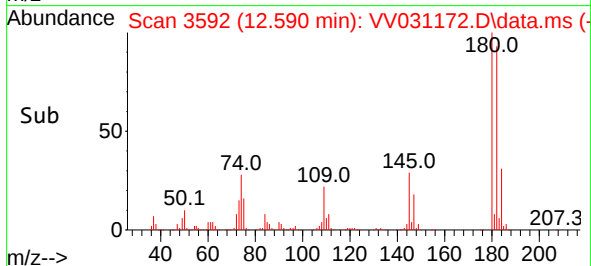
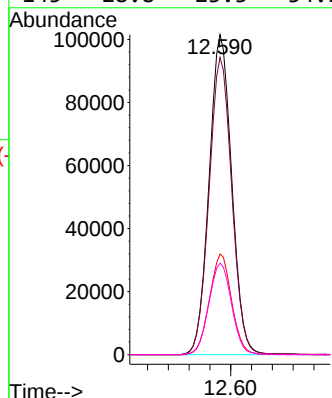
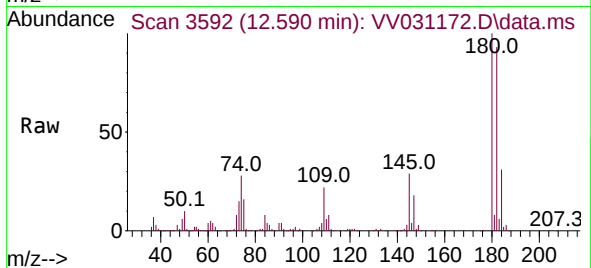
Ion Ratio Lower Upper

180 100

182 93.7 76.6 115.0

184 30.9 24.6 37.0

145 28.8 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 47.149 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

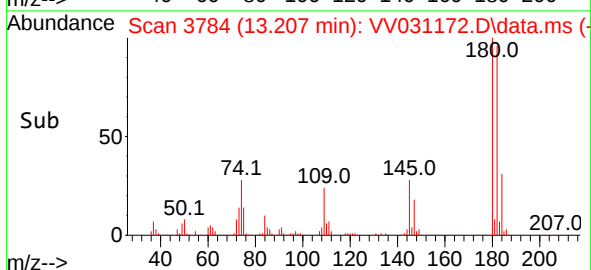
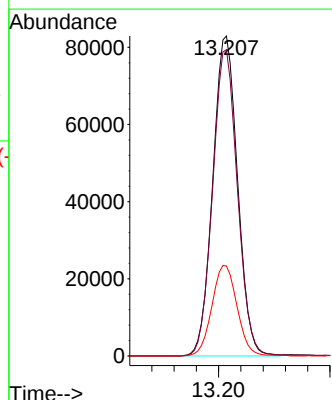
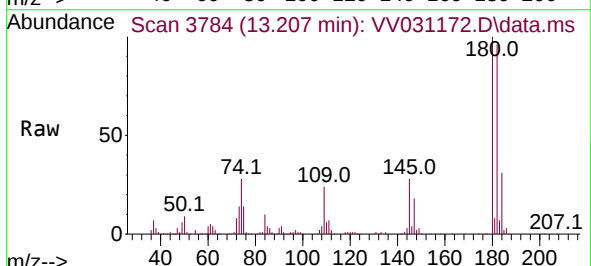
Tgt Ion:180 Resp: 127908

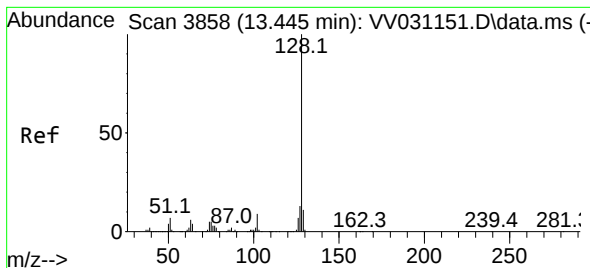
Ion Ratio Lower Upper

180 100

182 95.8 75.4 113.2

145 28.8 23.1 34.7





#71

Naphthalene

Concen: 46.335 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Instrument :

MSVOA_V

ClientSampleId :

H0FL8MS

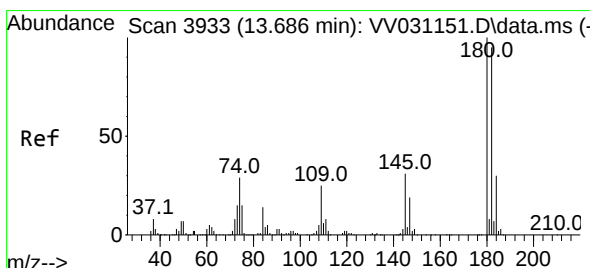
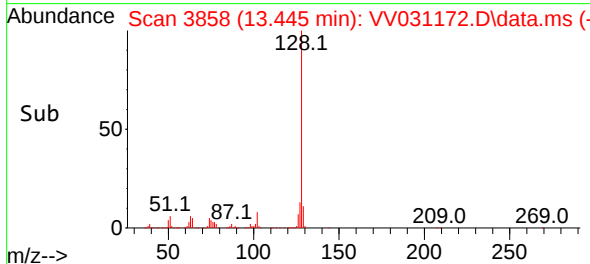
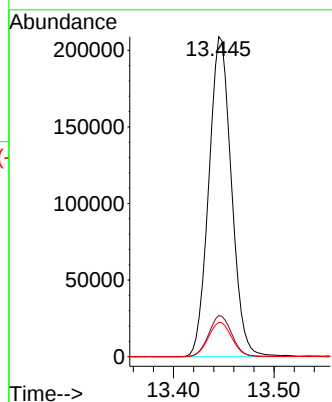
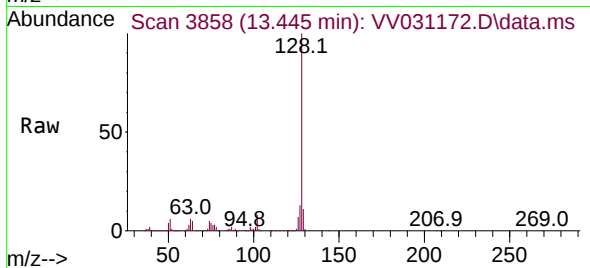
Tgt Ion:128 Resp: 326504

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 11.3 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 48.967 ug/L

RT: 13.686 min Scan# 3933

Delta R.T. 0.000 min

Lab File: VV031172.D

Acq: 22 May 2023 17:43

Tgt Ion:180 Resp: 132745

Ion Ratio Lower Upper

180 100

182 96.4 75.4 113.0

145 30.2 24.2 36.4

