

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081823\
 Data File : VX037090.D
 Acq On : 18 Aug 2023 17:32
 Operator : JC/MD
 Sample : 04024-19DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW17811-20230815DL

Quant Time: Aug 19 05:20:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

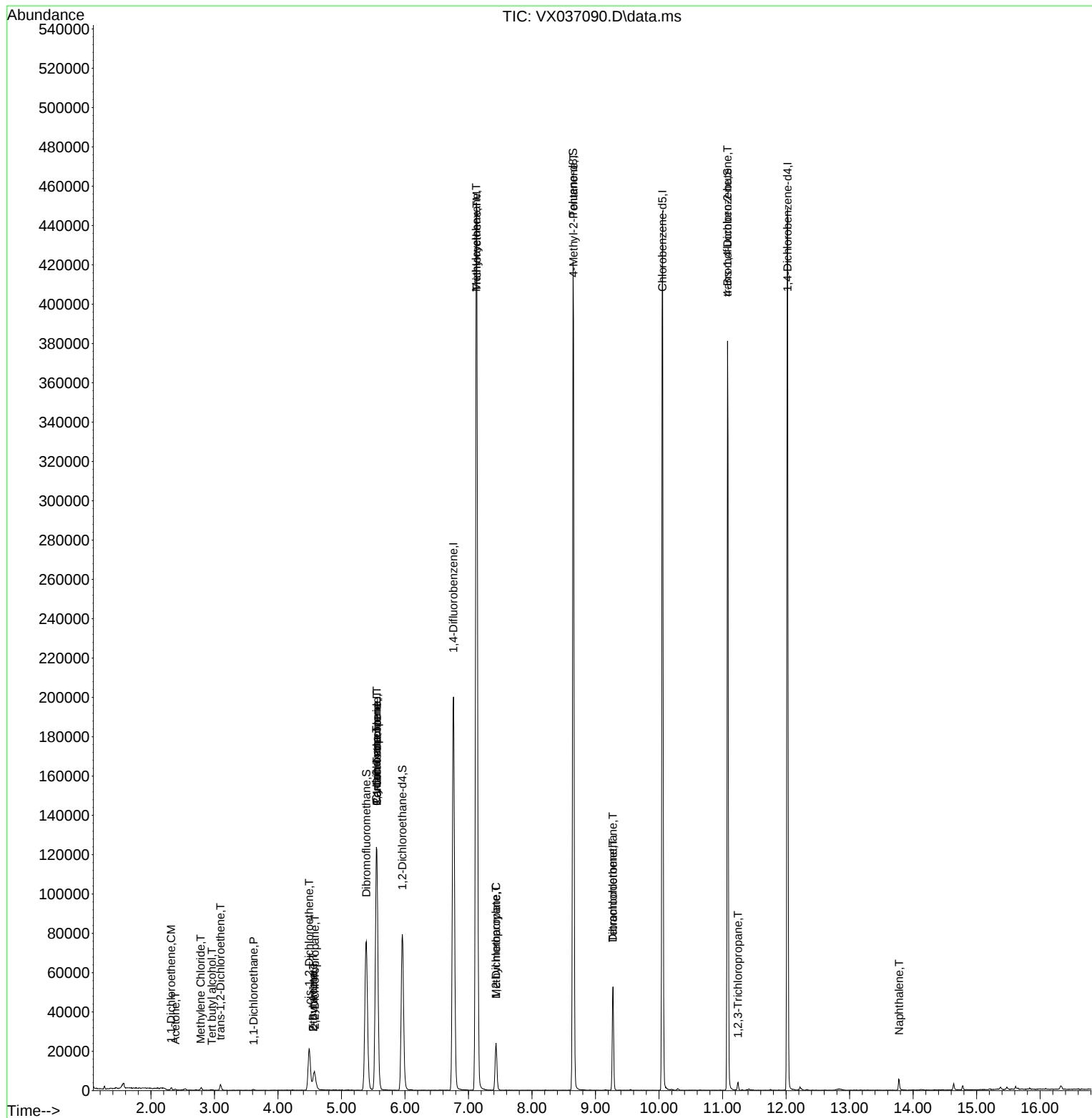
Internal Standards						
1) Pentafluorobenzene	5.556	168	116315	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	211955	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	203979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95119	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	80920	48.256	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.520%		
35) Dibromofluoromethane	5.391	113	67352	47.981	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.960%		
50) Toluene-d8	8.647	98	252597	49.608	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.220%		
62) 4-Bromofluorobenzene	11.079	95	102855	51.401	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.800%		
Target Compounds						Qvalue
11) Tert butyl alcohol	2.959	59	290	0.737	ug/l #	78
12) 1,1-Dichloroethene	2.319	96	389	0.325	ug/l #	71
16) Acetone	2.386	43	598	0.912	ug/l #	85
20) Methylene Chloride	2.782	84	727	0.496	ug/l #	62
21) trans-1,2-Dichloroethene	3.093	96	1178	0.865	ug/l	94
24) 1,1-Dichloroethane	3.617	63	655	0.275	ug/l #	83
25) 2-Butanone	4.556	43	669	0.677	ug/l #	51
26) 2,2-Dichloropropane	4.580	77	661	0.310	ug/l #	54
27) cis-1,2-Dichloroethene	4.489	96	14088	8.780	ug/l	83
31) Cyclohexane	5.550	56	2403	1.274	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	9442	4.734	ug/l #	51
37) Ethyl Acetate	4.556	43	669	0.328	ug/l #	69
38) Carbon Tetrachloride	5.556	117	12867	5.939	ug/l #	14
39) Methylcyclohexane	7.123	83	2167	1.034	ug/l #	1
44) Trichloroethene	7.129	130	179986	110.975	ug/l	98
45) 1,2-Dichloropropane	7.434	63	9408	6.671	ug/l	98
48) Methyl methacrylate	7.434	41	5141	3.259	ug/l #	40
51) 4-Methyl-2-Pentanone	8.653	43	999	0.509	ug/l #	1
60) Dibromochloromethane	9.275	129	9855	6.015	ug/l #	11
64) Tetrachloroethene	9.275	164	9968	6.699	ug/l	97
76) 1,2,3-Trichloropropane	11.244	75	1702	0.840	ug/l	84
81) trans-1,4-Dichloro-2-b...	11.079	75	53339	73.543	ug/l #	5
95) Naphthalene	13.780	128	4805	0.606	ug/l	97

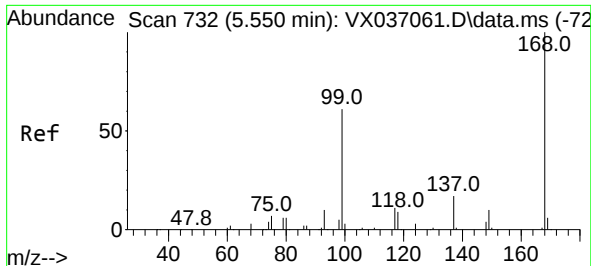
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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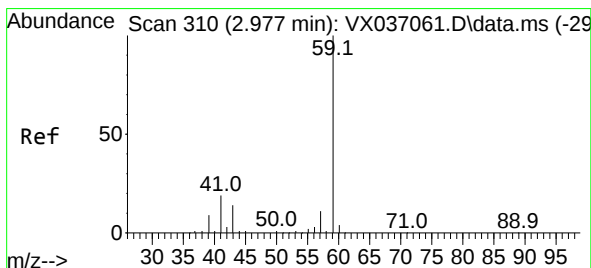
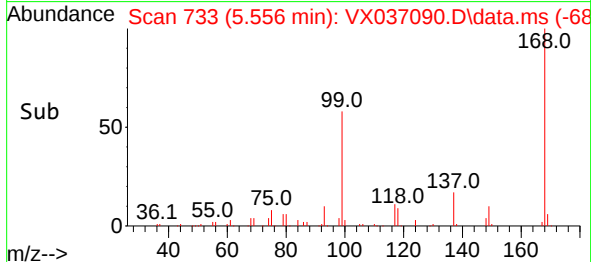
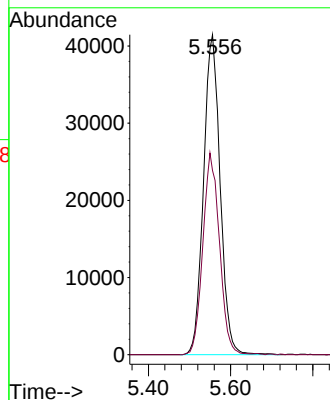
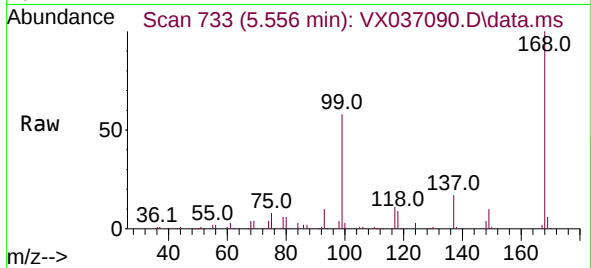




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 711
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

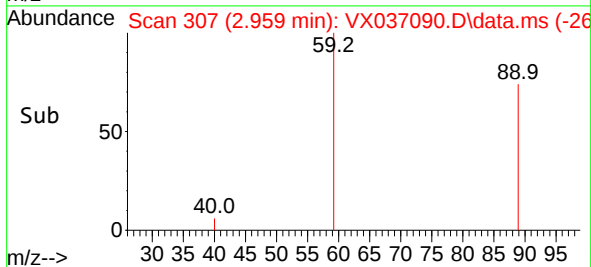
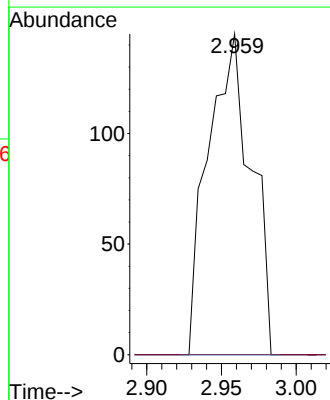
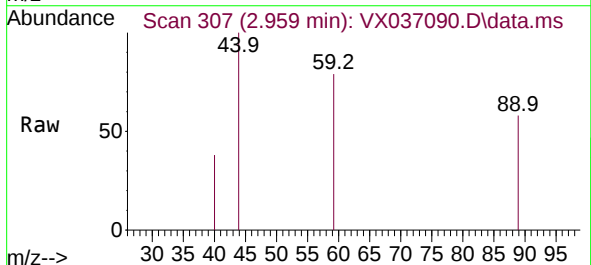
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

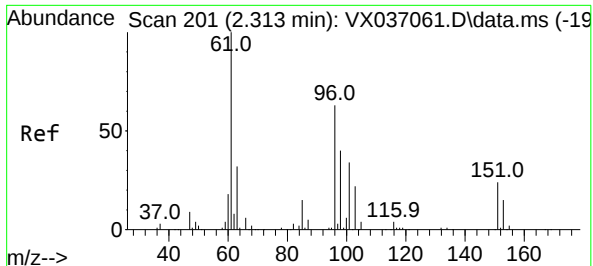
Tgt Ion:168 Resp: 116315
Ion Ratio Lower Upper
168 100
99 57.5 56.6 85.0



#11
Tert butyl alcohol
Concen: 0.737 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#12

1,1-Dichloroethene

Concen: 0.325 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20230815DL

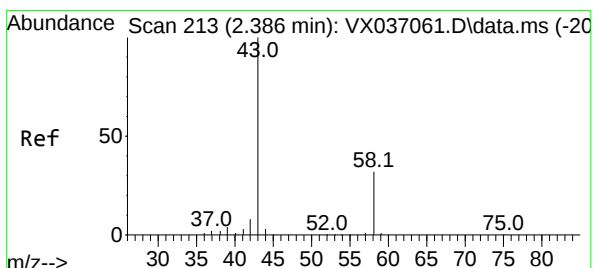
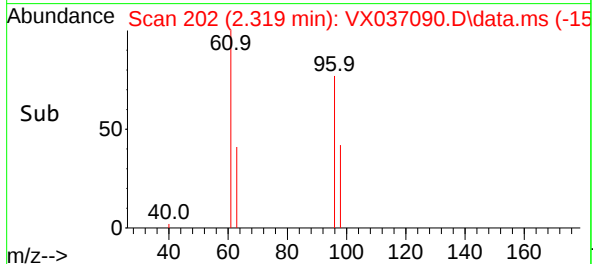
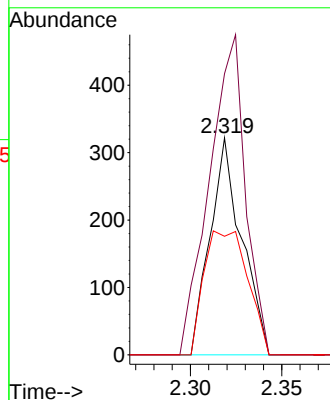
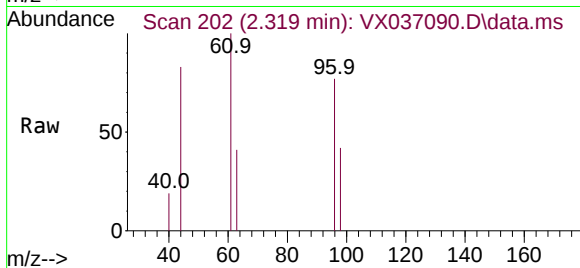
Tgt Ion: 96 Resp: 389

Ion Ratio Lower Upper

96 100

61 129.5 144.6 216.8#

98 54.7 50.4 75.6



#16

Acetone

Concen: 0.912 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX037090.D

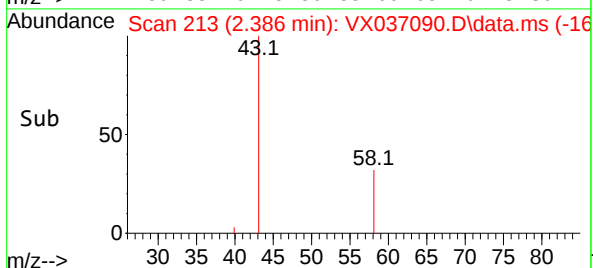
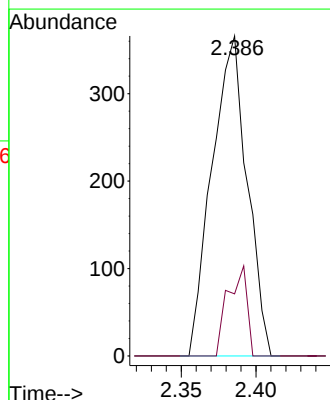
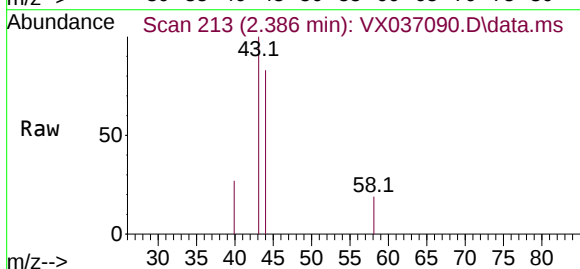
Acq: 18 Aug 2023 17:32

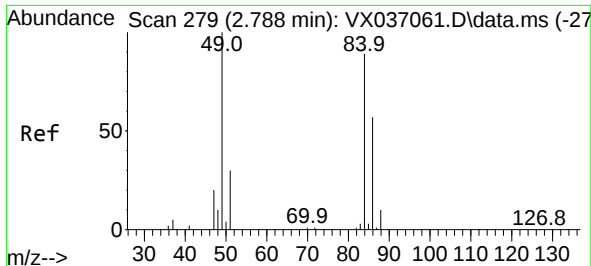
Tgt Ion: 43 Resp: 598

Ion Ratio Lower Upper

43 100

58 19.4 21.9 32.9#

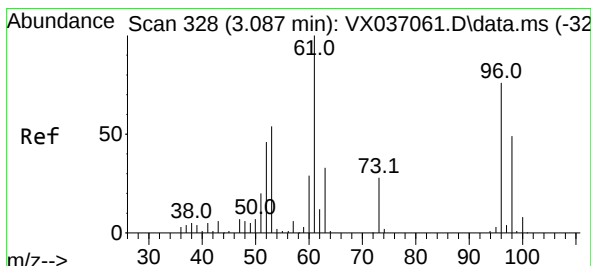
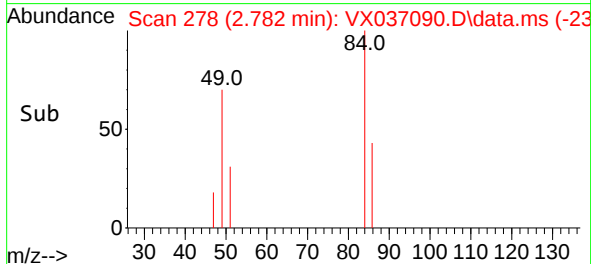
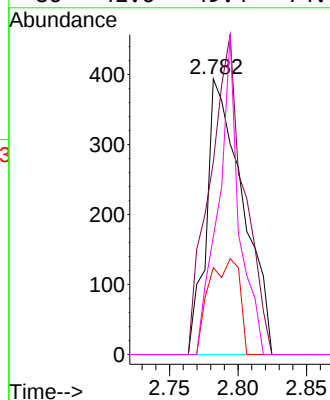
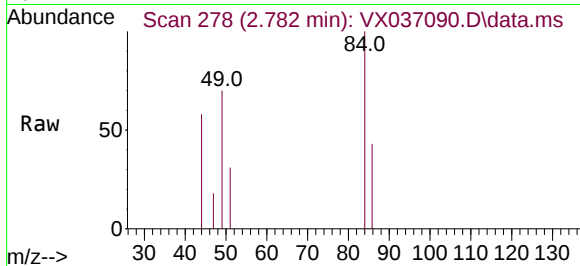




#20
Methylene Chloride
Concen: 0.496 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

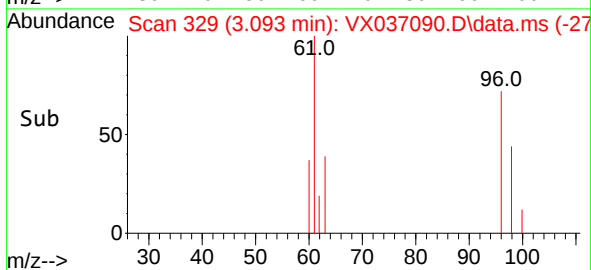
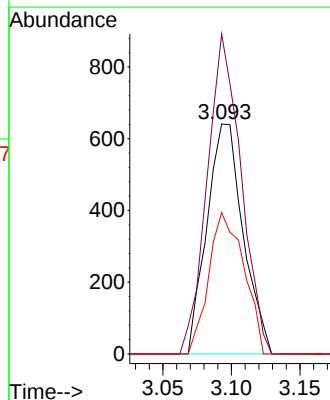
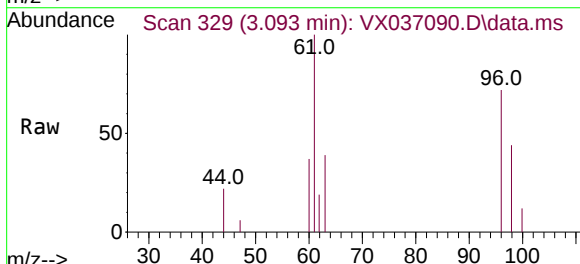
Instrument :
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MW17811-20230815DL

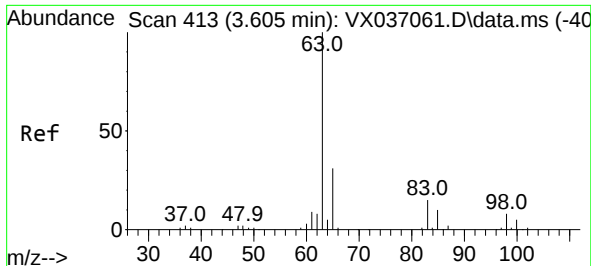
Tgt Ion:	84	Resp:	727
Ion	Ratio	Lower	Upper
84	100		
49	69.8	103.6	155.4#
51	31.5	33.8	50.6#
86	42.6	49.4	74.0#



#21
trans-1,2-Dichloroethene
Concen: 0.865 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion:	96	Resp:	1178
Ion	Ratio	Lower	Upper
96	100		
61	139.2	119.2	178.8
98	61.5	48.7	73.1





#24

1,1-Dichloroethane

Concen: 0.275 ug/l

RT: 3.617 min Scan# 413

Delta R.T. 0.012 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

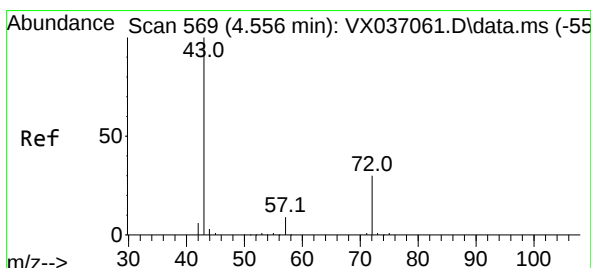
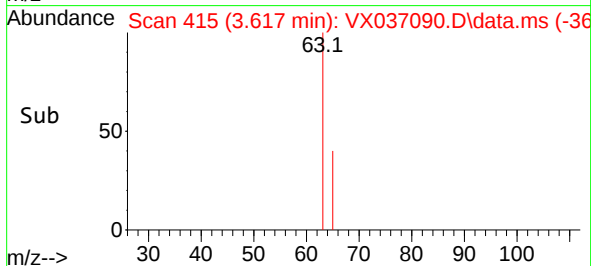
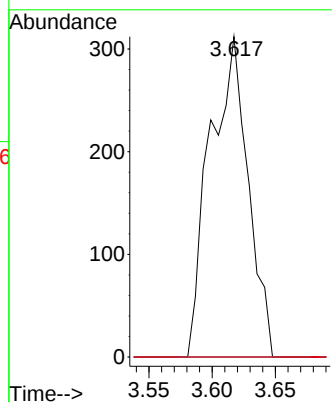
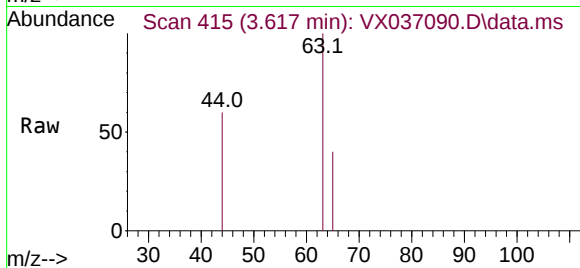
Instrument :

MSVOA_X

ClientSampleId :

MW17811-20230815DL

Tgt Ion: 63	Resp: 655
Ion Ratio	Lower Upper
63 100	
98 0.0	3.3 9.8#
100 0.0	2.1 6.5#



#25

2-Butanone

Concen: 0.677 ug/l

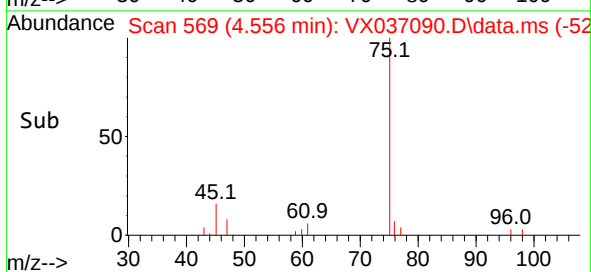
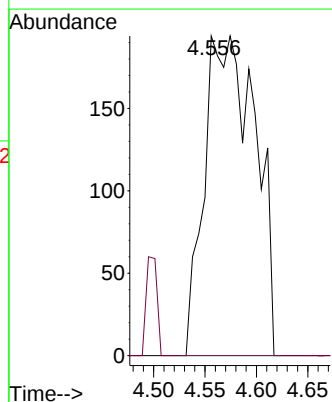
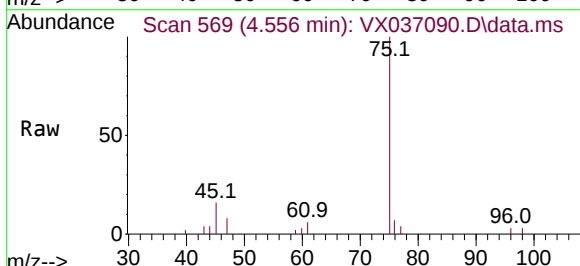
RT: 4.556 min Scan# 569

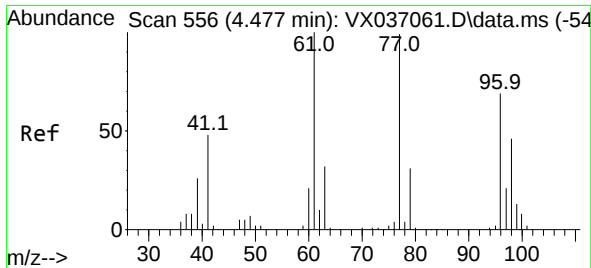
Delta R.T. 0.000 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

Tgt Ion: 43	Resp: 669
Ion Ratio	Lower Upper
43 100	
72 0.0	19.4 29.2#

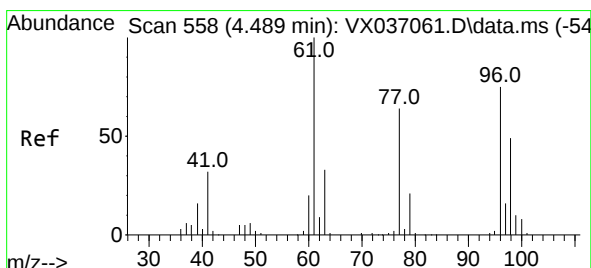
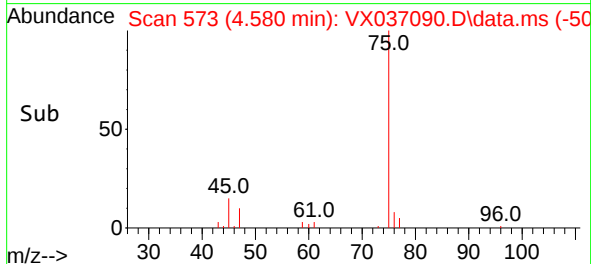
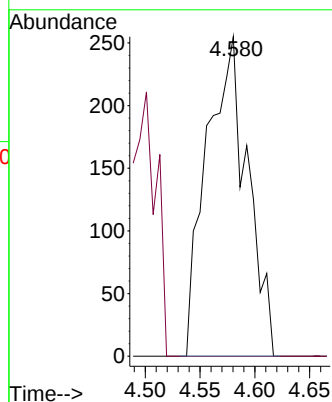
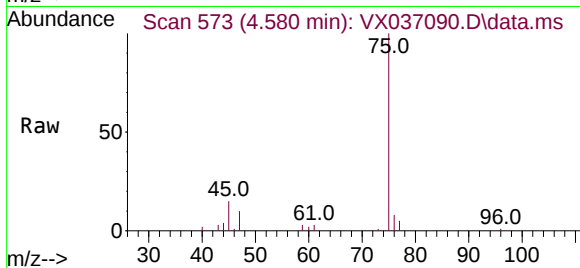




#26
2,2-Dichloropropane
Concen: 0.310 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.104 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

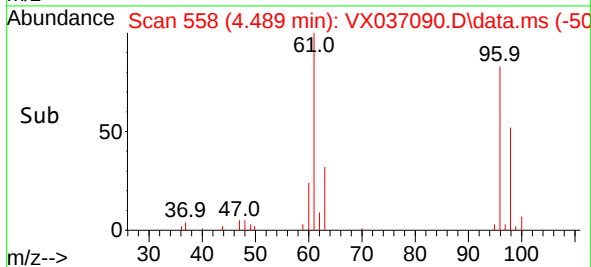
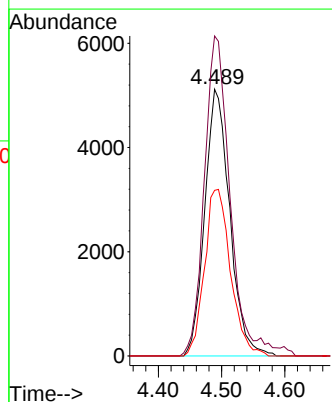
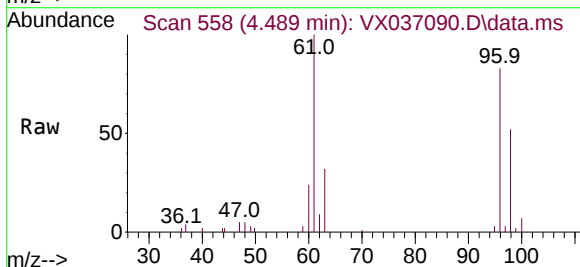
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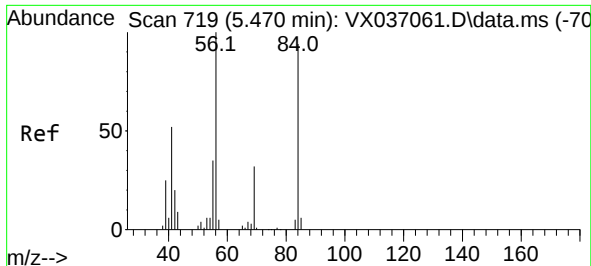
Tgt Ion: 77 Resp: 661
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#



#27
cis-1,2-Dichloroethene
Concen: 8.780 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 96 Resp: 14088
Ion Ratio Lower Upper
96 100
61 124.3 0.0 312.2
98 64.9 0.0 129.0

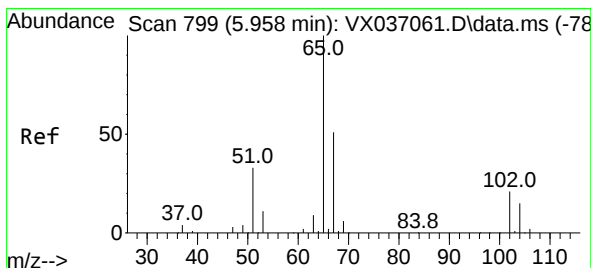
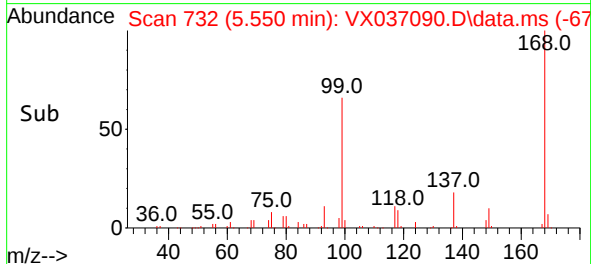
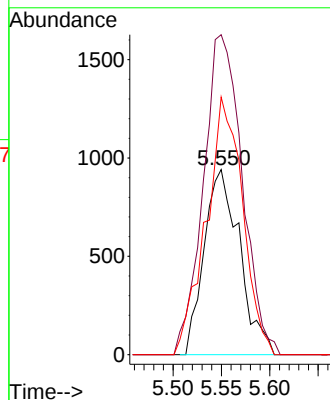
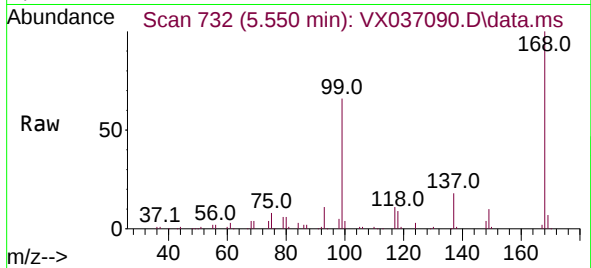




#31
Cyclohexane
Concen: 1.274 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

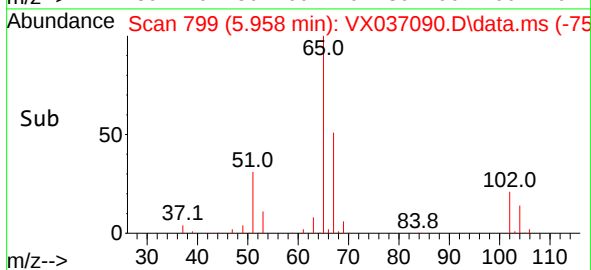
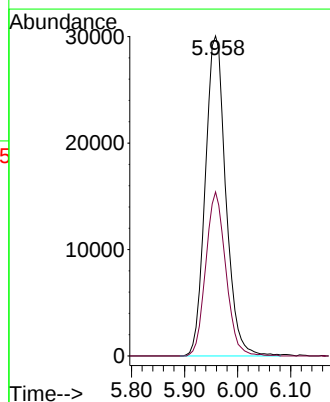
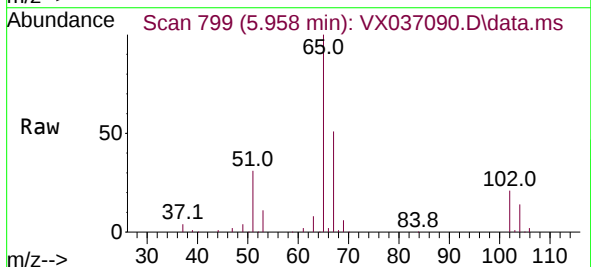
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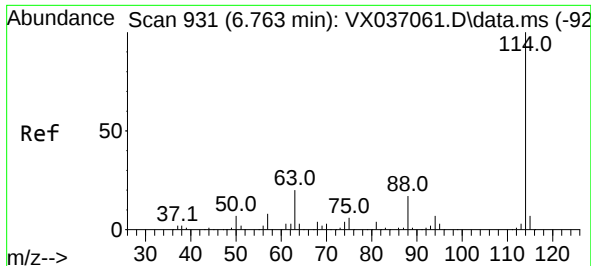
Tgt Ion: 56 Resp: 2403
Ion Ratio Lower Upper
56 100
69 172.9 23.4 35.2#
84 139.2 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 48.256 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 65 Resp: 80920
Ion Ratio Lower Upper
65 100
67 50.0 0.0 100.2

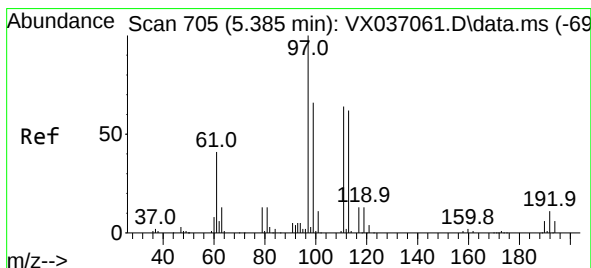
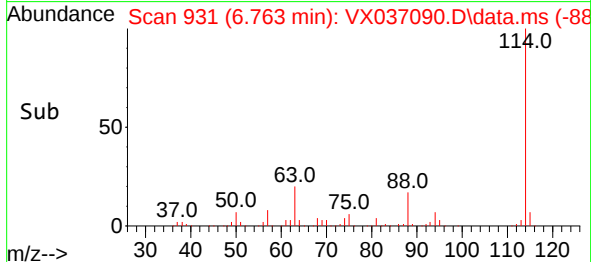
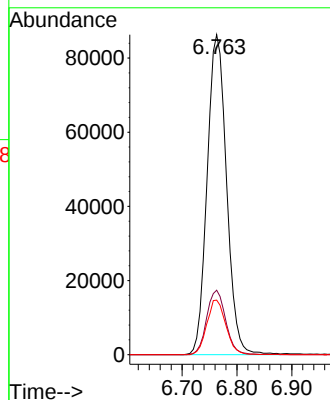
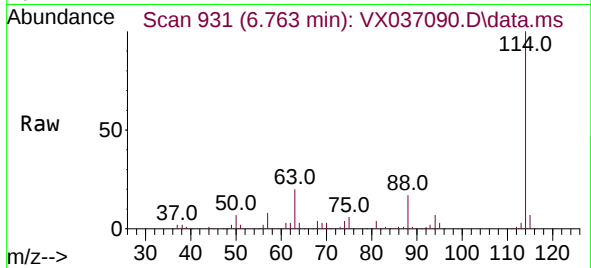




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

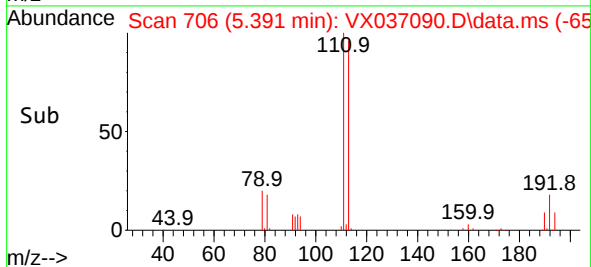
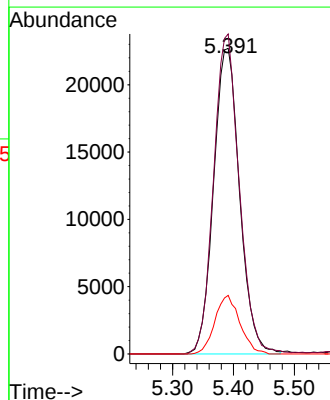
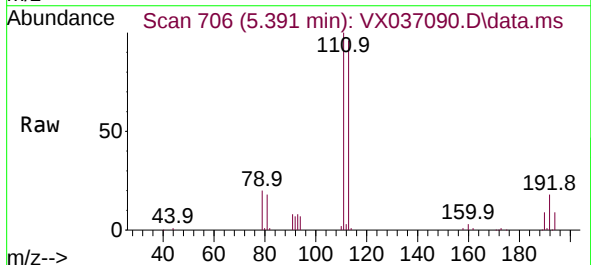
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

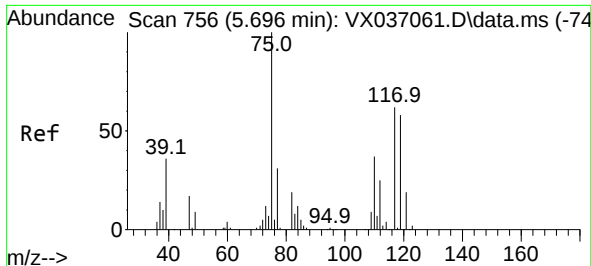
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Ion Ratio Lower Upper
114 100
63 20.2 0.0 45.0
88 17.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 47.981 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion:113 Resp: 67352
Ion Ratio Lower Upper
113 100
111 103.2 82.9 124.3
192 18.4 13.3 19.9

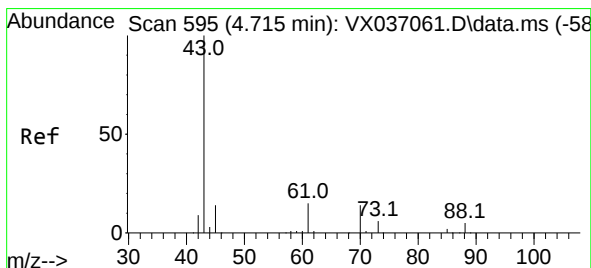
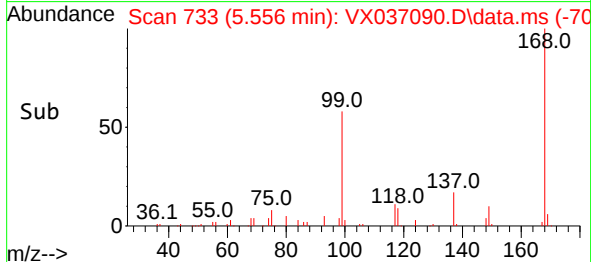
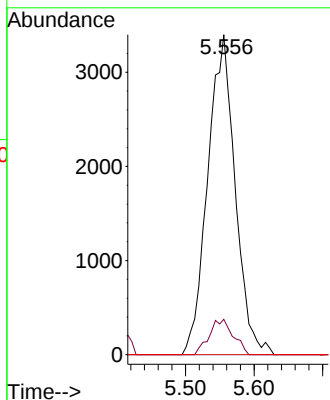
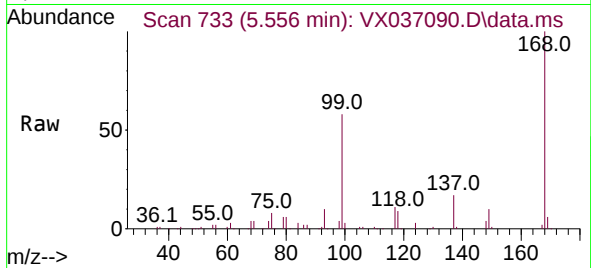




#36
1,1-Dichloropropene
Concen: 4.734 ug/l
RT: 5.556 min Scan# 714
Delta R.T. -0.140 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

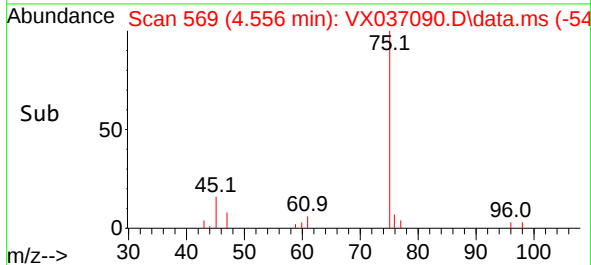
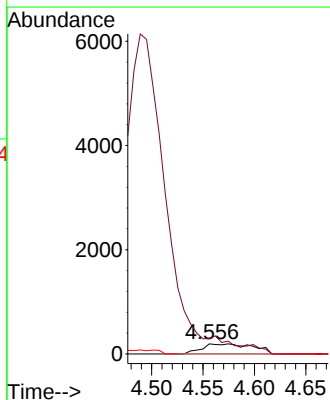
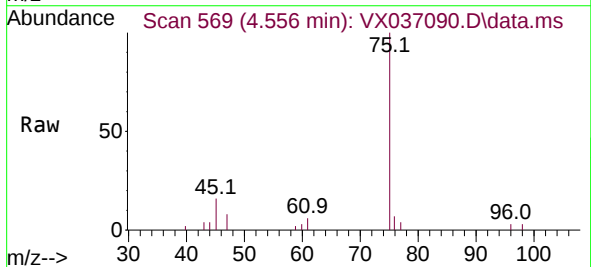
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

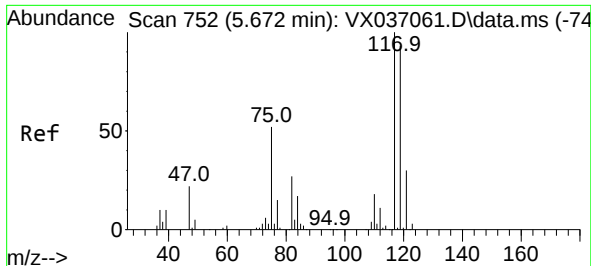
Tgt Ion: 75 Resp: 9442
Ion Ratio Lower Upper
75 100
110 9.7 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.328 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.159 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 43 Resp: 669
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.3 12.5#

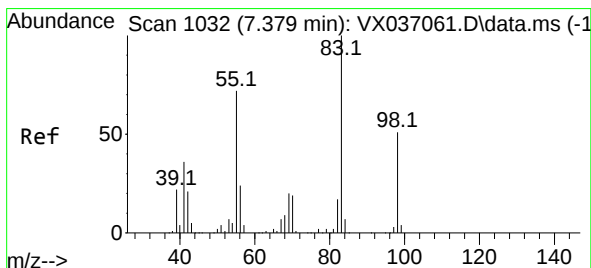
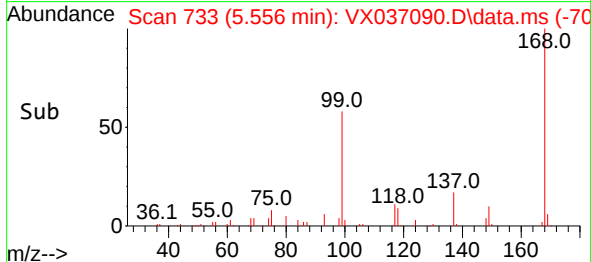
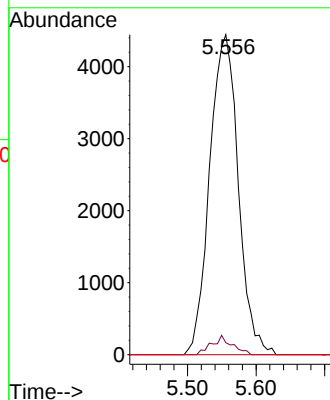
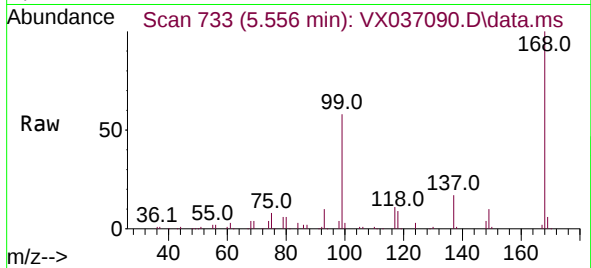




#38
Carbon Tetrachloride
Concen: 5.939 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.116 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

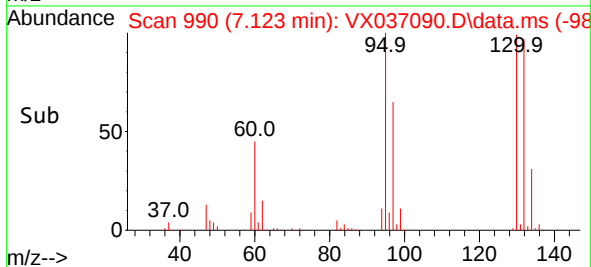
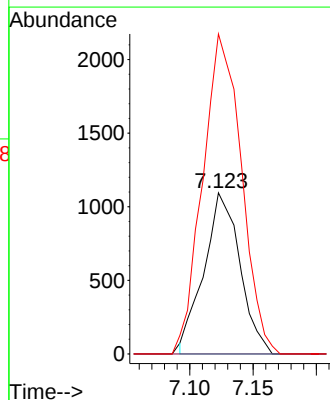
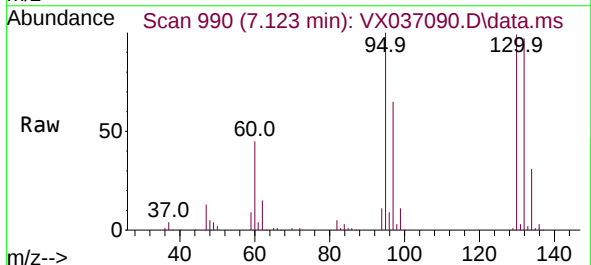
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

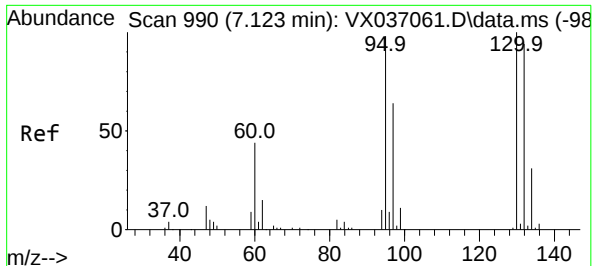
Tgt Ion:117 Resp: 12867
Ion Ratio Lower Upper
117 100
119 3.8 78.2 117.2#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 1.034 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.256 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 83 Resp: 2167
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 198.5 36.7 55.1#

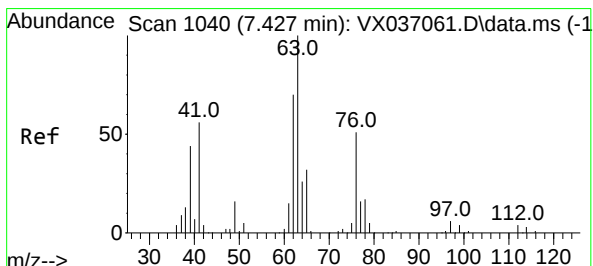
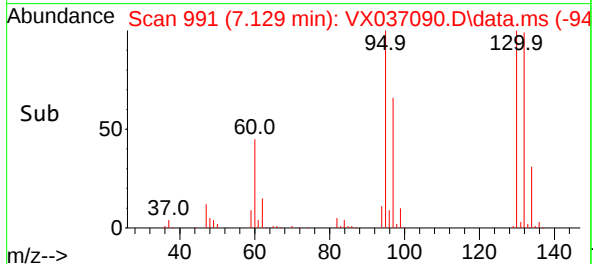
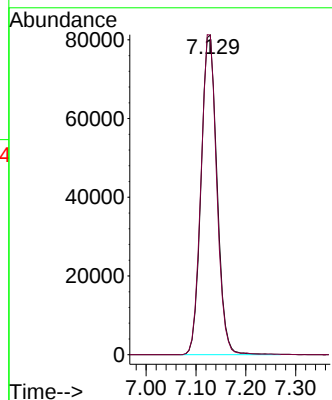
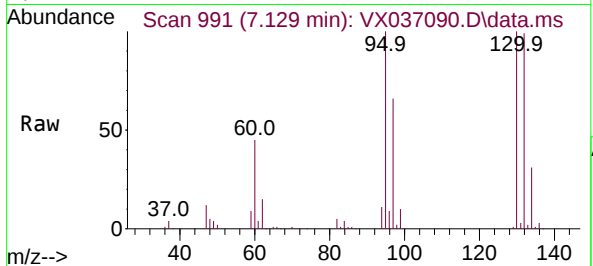




#44
Trichloroethene
Concen: 110.975 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

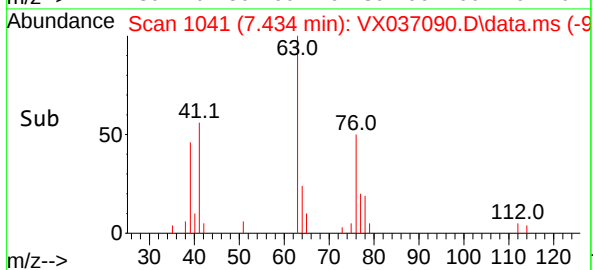
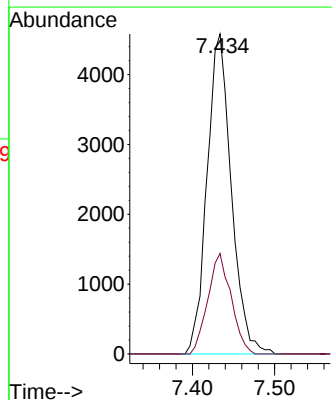
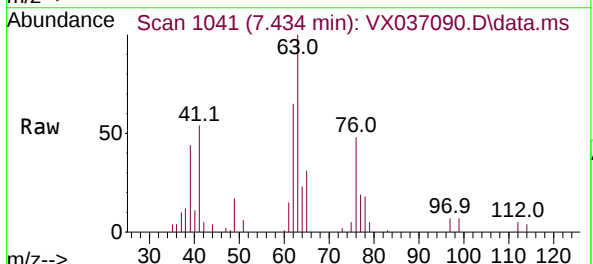
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

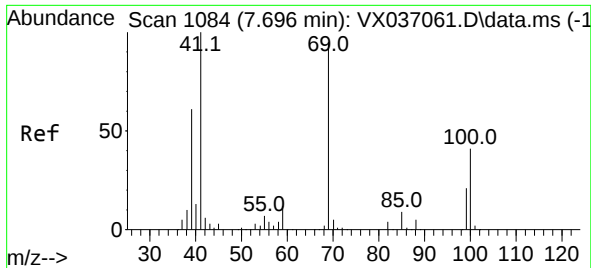
Tgt Ion:130 Resp: 179986
Ion Ratio Lower Upper
130 100
95 100.0 0.0 204.4



#45
1,2-Dichloropropane
Concen: 6.671 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 63 Resp: 9408
Ion Ratio Lower Upper
63 100
65 31.4 24.3 36.5

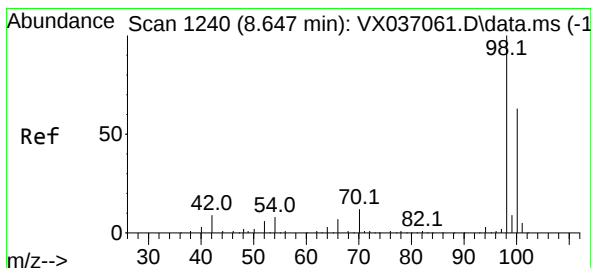
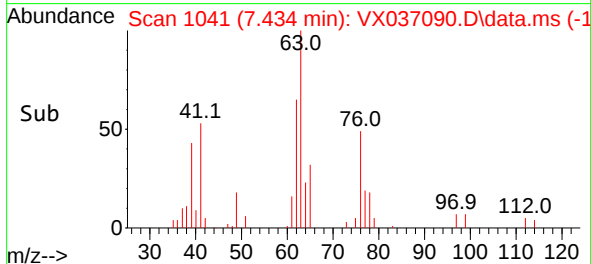
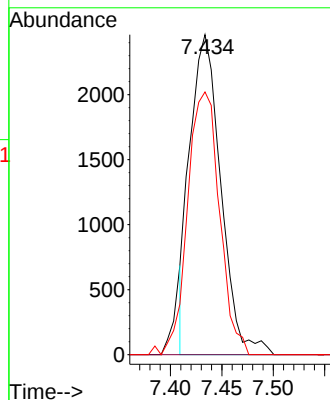
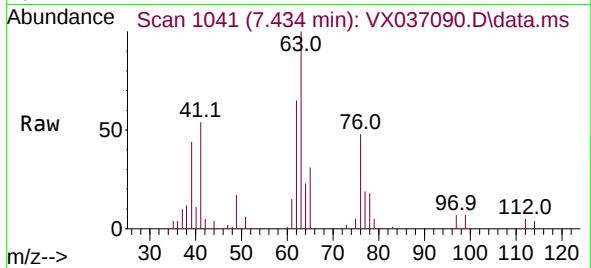




#48
Methyl methacrylate
Concen: 3.259 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. -0.262 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

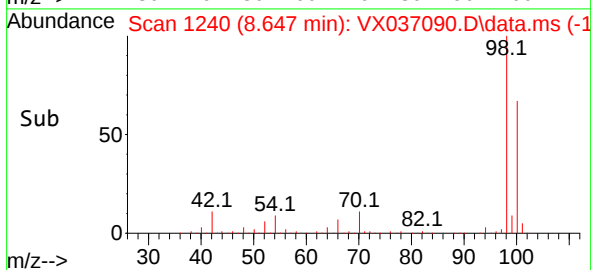
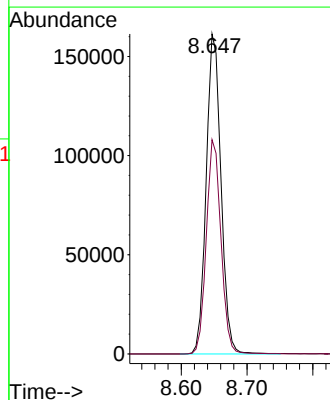
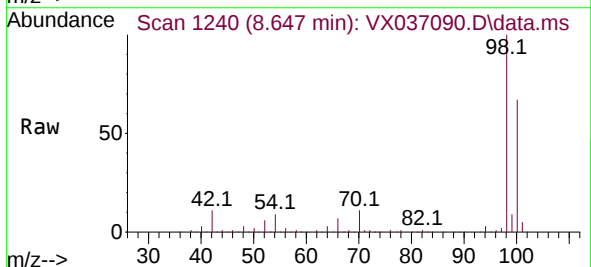
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

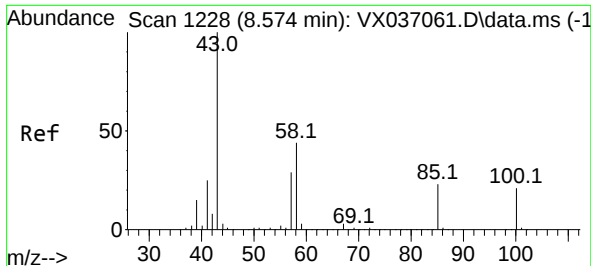
Tgt Ion: 41 Resp: 5141
Ion Ratio Lower Upper
41 100
69 0.0 59.2 88.8#
39 79.9 47.7 71.5#



#50
Toluene-d8
Concen: 49.608 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion: 98 Resp: 252597
Ion Ratio Lower Upper
98 100
100 66.3 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 0.509 ug/l

RT: 8.653 min Scan# 1

Delta R.T. 0.079 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

Instrument :

MSVOA_X

ClientSampleId :

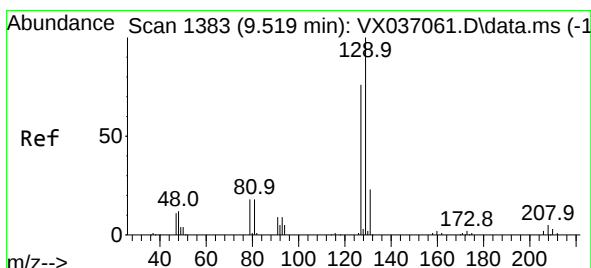
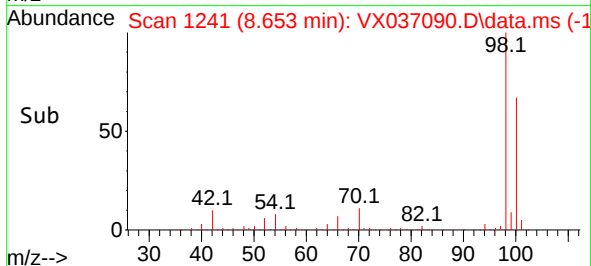
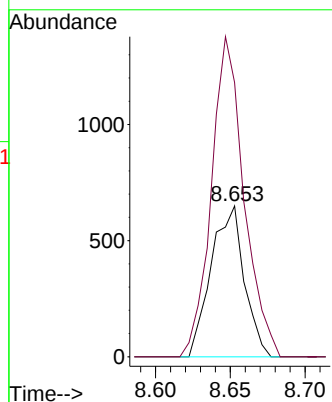
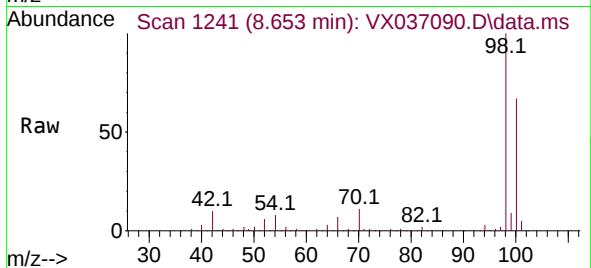
MW17811-20230815DL

Tgt Ion: 43 Resp: 999

Ion Ratio Lower Upper

43 100

58 209.3 30.4 45.6#



#60

Dibromochloromethane

Concen: 6.015 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX037090.D

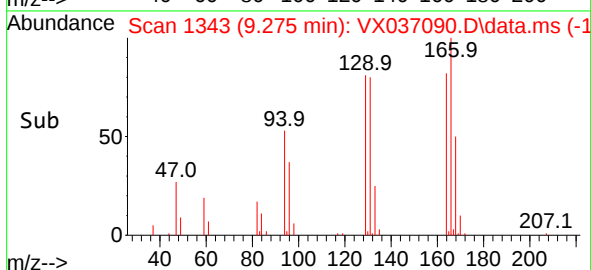
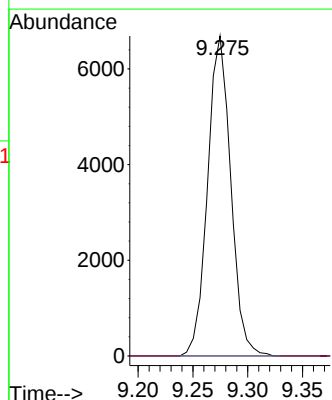
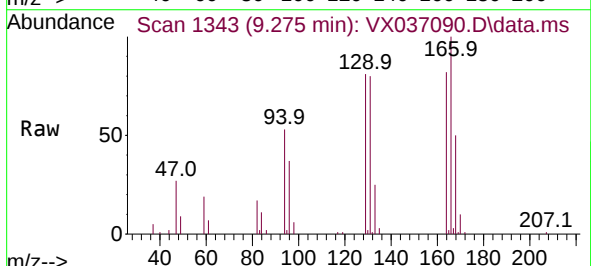
Acq: 18 Aug 2023 17:32

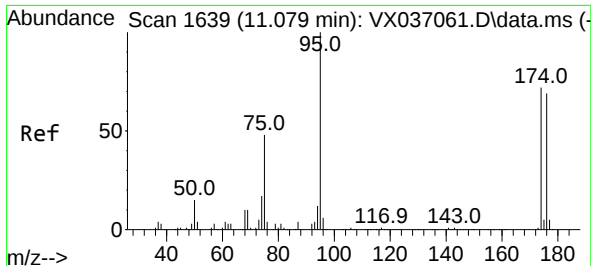
Tgt Ion: 129 Resp: 9855

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 51.401 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20230815DL

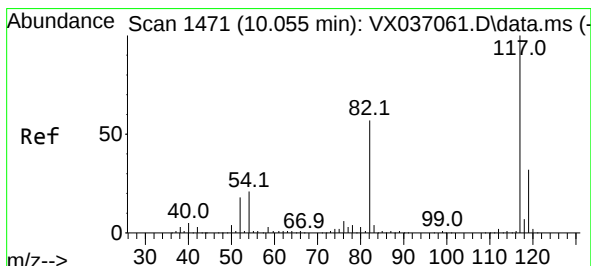
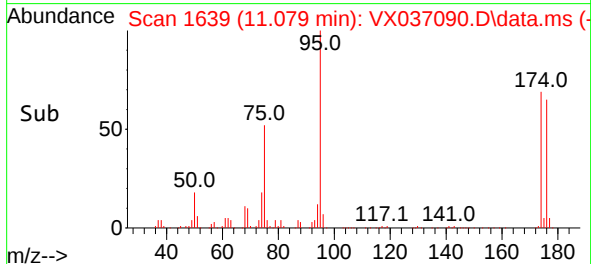
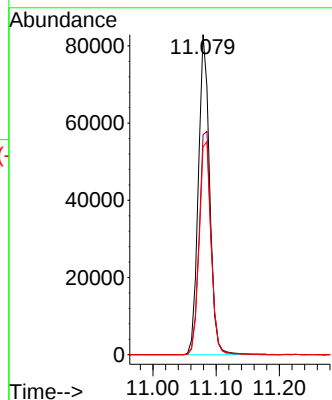
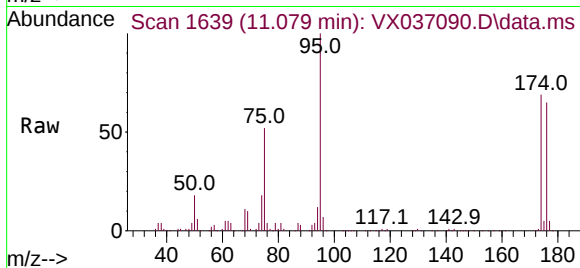
Tgt Ion: 95 Resp: 102855

Ion Ratio Lower Upper

95 100

174 73.5 0.0 135.6

176 70.0 0.0 131.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

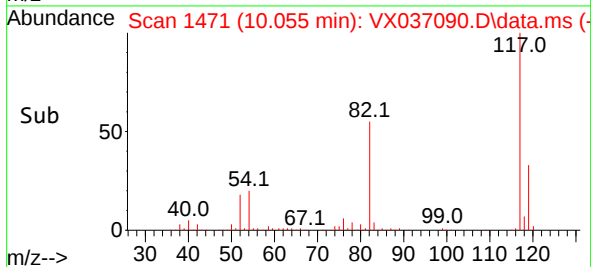
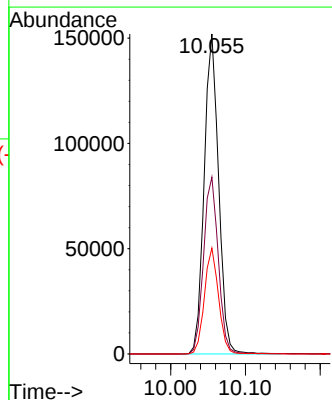
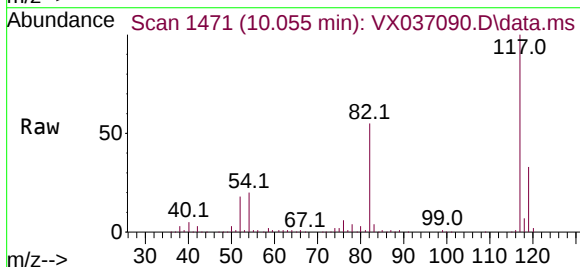
Tgt Ion: 117 Resp: 203979

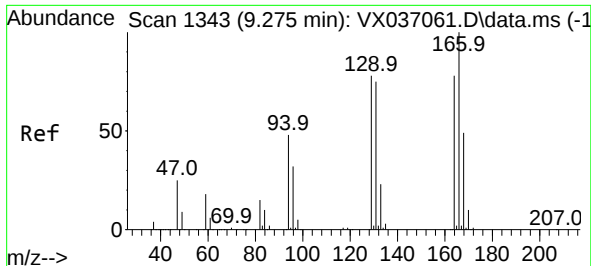
Ion Ratio Lower Upper

117 100

82 55.3 46.2 69.4

119 33.1 25.5 38.3

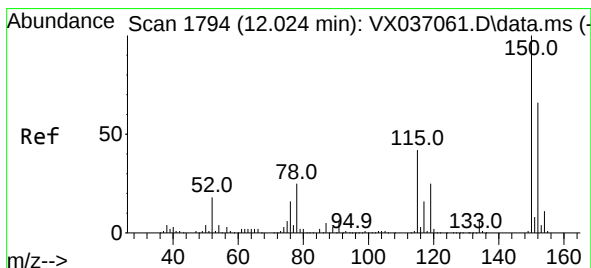
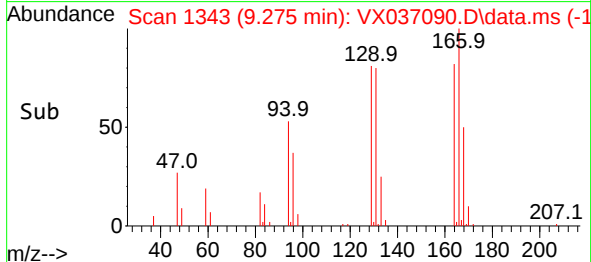
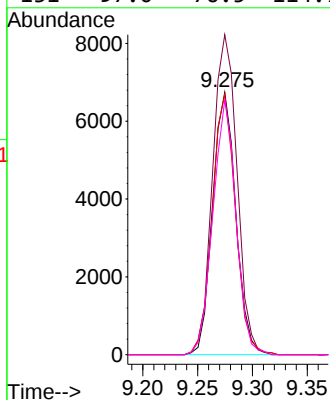
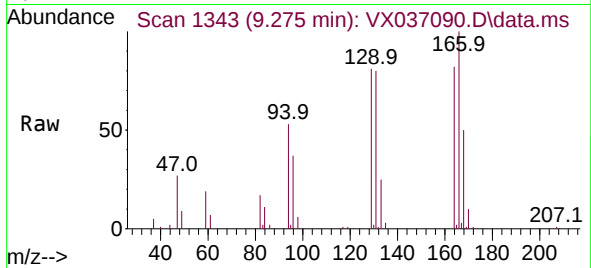




#64
Tetrachloroethene
Concen: 6.699 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

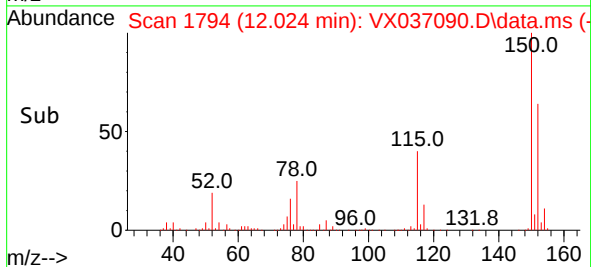
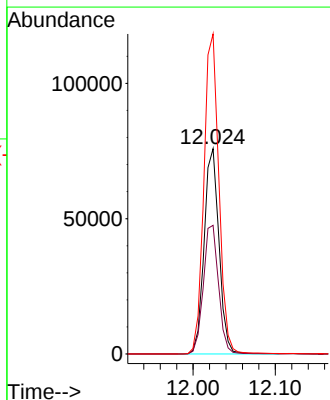
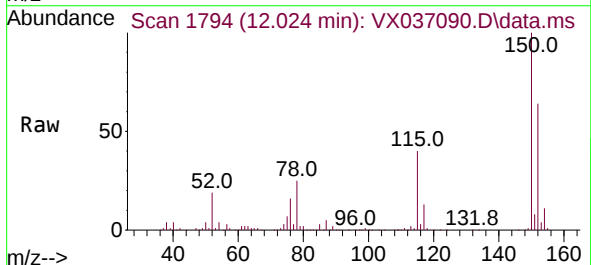
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL

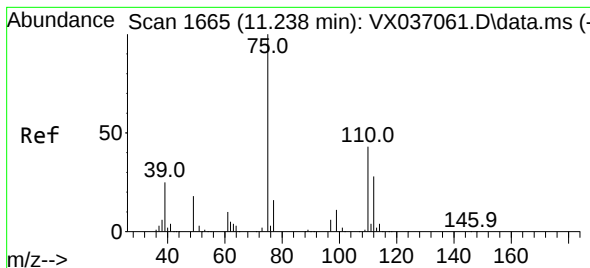
Tgt	Ion:164	Resp:	9968
Ion	Ratio	Lower	Upper
164	100		
166	121.9	102.7	154.1
129	99.2	80.4	120.6
131	97.0	76.5	114.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Tgt Ion:152	Resp:	95119	
Ion	Ratio	Lower	Upper
152	100		
115	64.1	43.3	129.9
150	157.8	0.0	345.0





#76

1,2,3-Trichloropropane

Concen: 0.840 ug/l

RT: 11.244 min Scan# 1666

Delta R.T. 0.006 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

Instrument :

MSVOA_X

ClientSampleId :

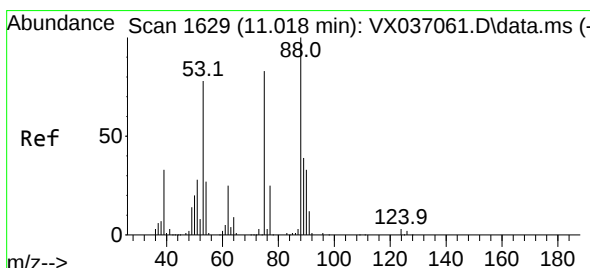
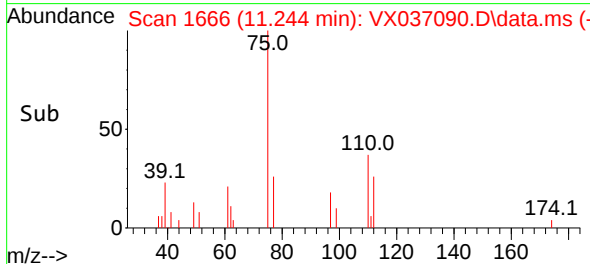
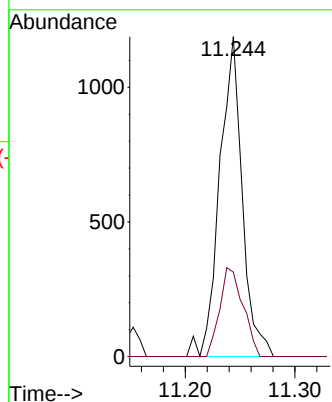
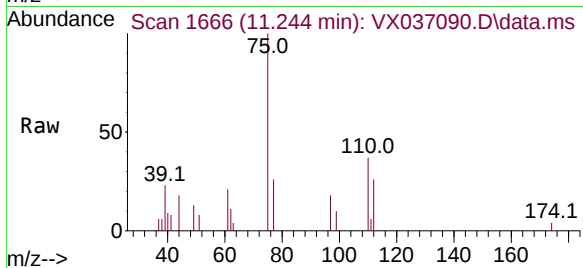
MW17811-20230815DL

Tgt Ion: 75 Resp: 1702

Ion Ratio Lower Upper

75 100

77 28.6 19.1 57.5



#81

trans-1,4-Dichloro-2-butene

Concen: 73.543 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037090.D

Acq: 18 Aug 2023 17:32

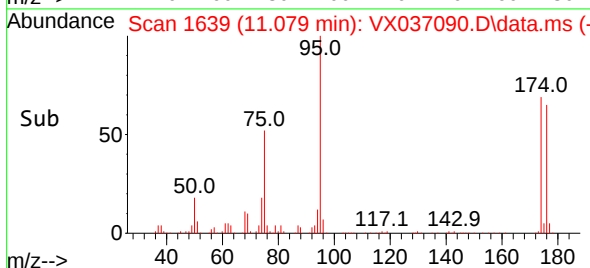
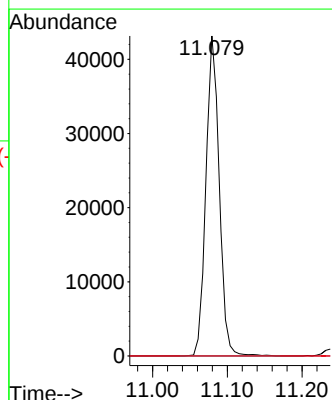
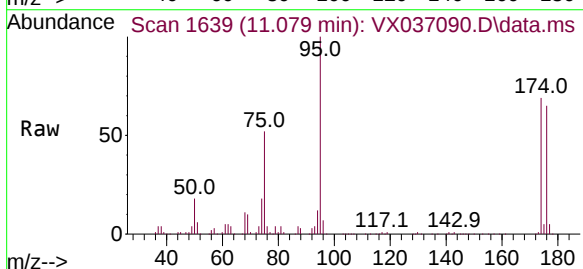
Tgt Ion: 75 Resp: 53339

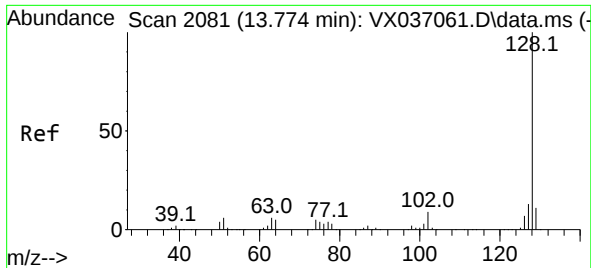
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

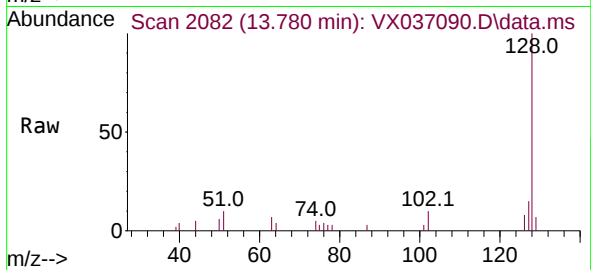
89 0.0 36.9 55.3#





#95
Naphthalene
Concen: 0.606 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX037090.D
Acq: 18 Aug 2023 17:32

Instrument :
MSVOA_X
ClientSampleId :
MW17811-20230815DL



Tgt Ion:128 Resp: 4805
Ion Ratio Lower Upper
128 100
127 12.4 10.3 15.5
129 9.1 8.8 13.2

