

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090623\
 Data File : VX037549.D
 Acq On : 06 Sep 2023 12:57
 Operator : JC/MD
 Sample : 04220-02DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW5DL

Quant Time: Sep 06 22:45:23 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	5.550	168	129146	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	209389	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	188431	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	83739	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	73362	39.402	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	78.800%
35) Dibromofluoromethane	5.385	113	64549	46.547	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.100%
50) Toluene-d8	8.647	98	245195	48.744	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.480%
62) 4-Bromofluorobenzene	11.079	95	88973	45.009	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.020%
Target Compounds						Qvalue
8) Diethyl Ether	2.136	74	276	0.305	ug/l	63
11) Tert butyl alcohol	2.971	59	25684	58.807	ug/l	96
13) Acrolein	2.239	56	96	0.289	ug/l #	14
15) Acrylonitrile	3.123	53	715	0.917	ug/l #	29
16) Acetone	2.380	43	1297	1.781	ug/l #	60
19) Methyl tert-butyl Ether	3.117	73	70351	13.953	ug/l	97
20) Methylene Chloride	2.782	84	872	0.535	ug/l #	77
22) Diisopropyl ether	3.770	45	2644	0.626	ug/l #	68
23) Vinyl Acetate	3.770	43	1460	0.451	ug/l #	73
25) 2-Butanone	4.580	43	1798	1.639	ug/l	98
26) 2,2-Dichloropropane	4.580	77	2672	1.130	ug/l #	54
29) Tetrahydrofuran	5.013	42	10187	14.565	ug/l #	86
36) 1,1-Dichloropropene	5.550	75	10180	5.167	ug/l #	50
37) Ethyl Acetate	4.580	43	1798	0.893	ug/l #	1
38) Carbon Tetrachloride	5.550	117	13210	6.172	ug/l #	16
40) Benzene	6.038	78	7484	1.324	ug/l	97
41) Methacrylonitrile	5.013	41	5885	5.625	ug/l #	46
44) Trichloroethene	7.129	130	389	0.243	ug/l	97
49) 1,4-Dioxane	7.671	88	470	11.200	ug/l #	73
59) 2-Hexanone	9.244	43	599	0.405	ug/l	76
65) Chlorobenzene	10.079	112	2145	0.539	ug/l	91
68) m/p-Xylenes	10.311	106	570	0.211	ug/l	99
73) Isopropylbenzene	10.963	105	2768	0.455	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	42324	23.733	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	42324	66.286	ug/l #	5
90) Hexachloroethane	12.616	117	226	0.278	ug/l #	17
93) 1,2,4-Trichlorobenzene	13.591	180	535	0.336	ug/l	84
94) Hexachlorobutadiene	13.731	225	175	0.284	ug/l	69
95) Naphthalene	13.780	128	2253	0.323	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	414	0.261	ug/l	87

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

Quant Time: Sep 06 22:45:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
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QLast Update : Fri Aug 18 09:30:38 2023
Response via : Initial Calibration

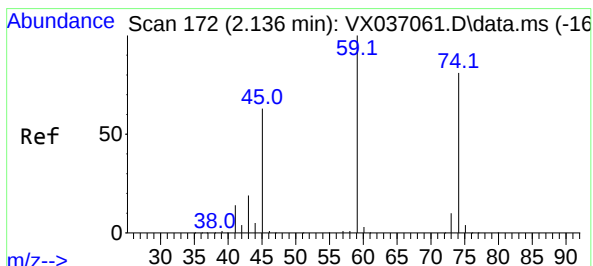
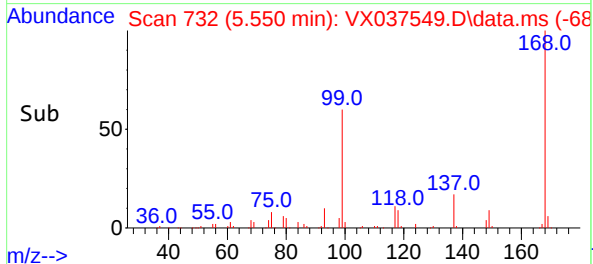
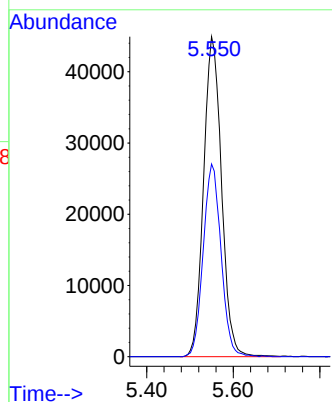
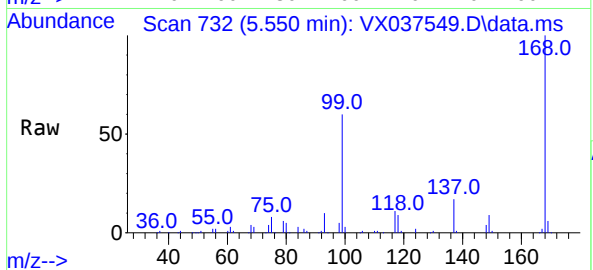




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

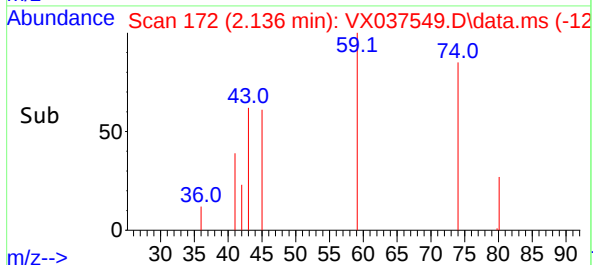
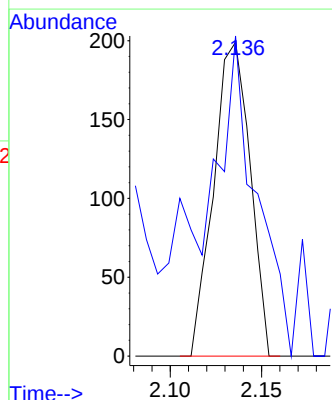
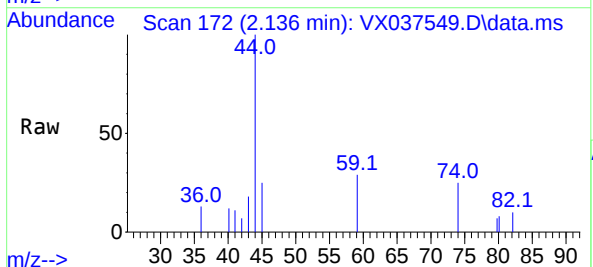
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

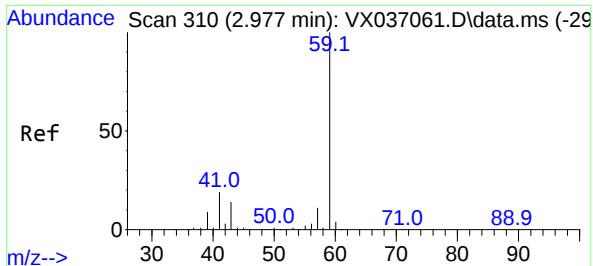
Tgt Ion:168 Resp: 129146
Ion Ratio Lower Upper
168 100
99 60.2 56.6 85.0



#8
Diethyl Ether
Concen: 0.305 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 74 Resp: 276
Ion Ratio Lower Upper
74 100
45 144.6 53.3 159.8





#11

Tert butyl alcohol

Concen: 58.807 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Instrument :

MSVOA_X

ClientSampleId :

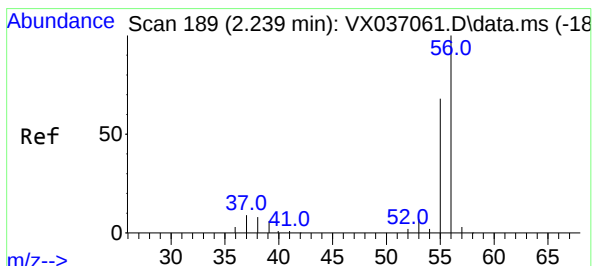
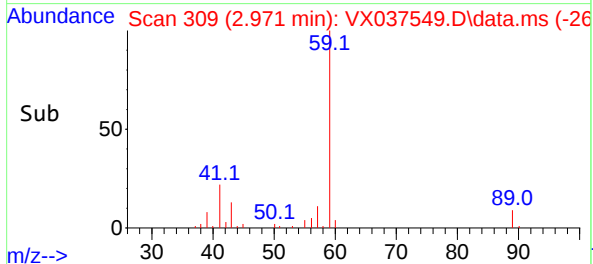
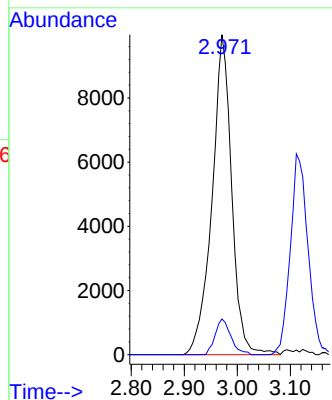
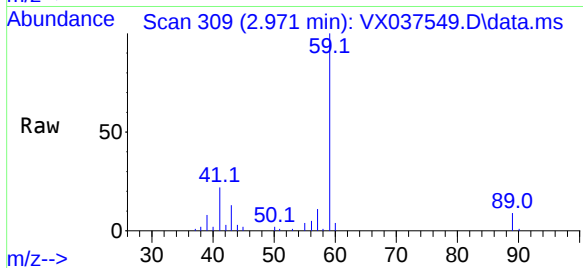
MW5DL

Tgt Ion: 59 Resp: 25684

Ion Ratio Lower Upper

59 100

57 8.9 6.0 9.0



#13

Acrolein

Concen: 0.289 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX037549.D

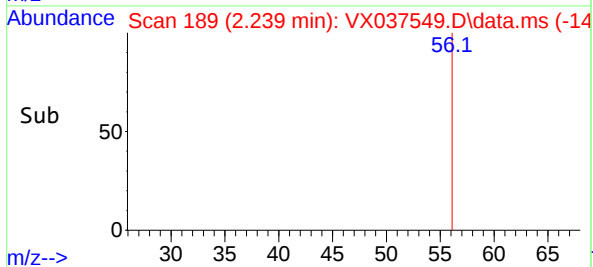
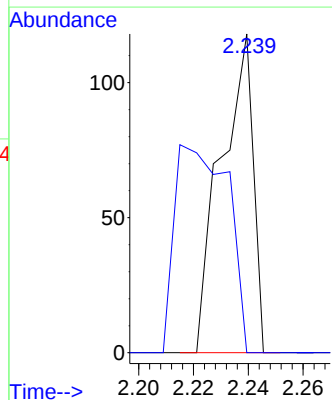
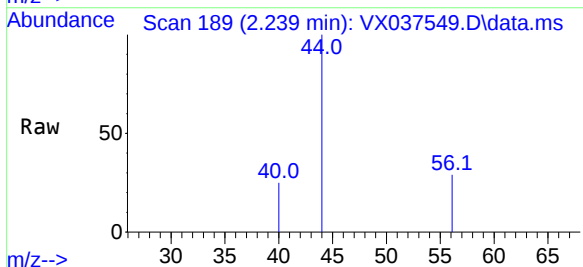
Acq: 06 Sep 2023 12:57

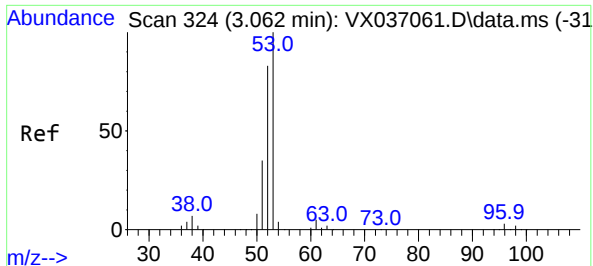
Tgt Ion: 56 Resp: 96

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#

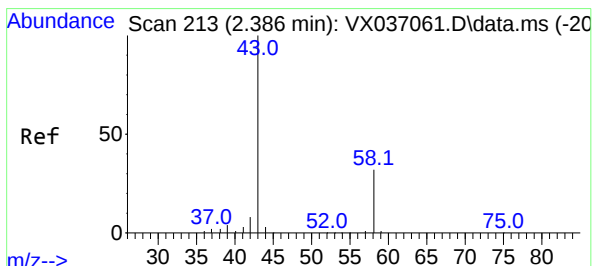
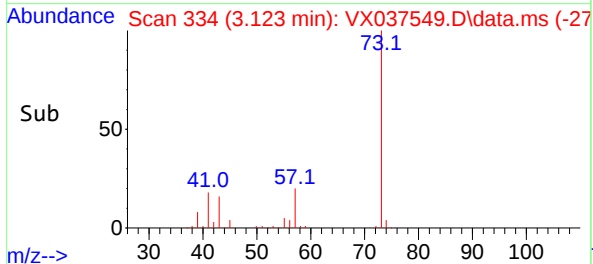
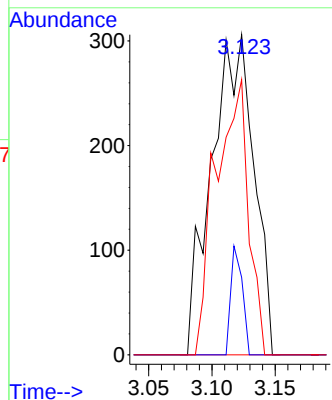
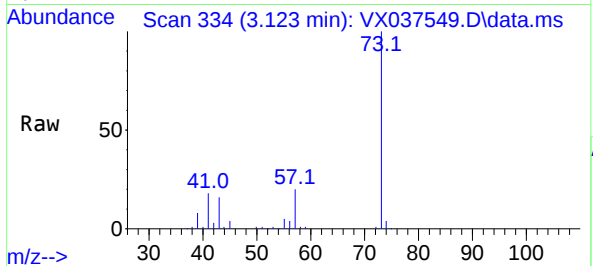




#15
Acrylonitrile
Concen: 0.917 ug/l
RT: 3.123 min Scan# 31
Delta R.T. 0.061 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

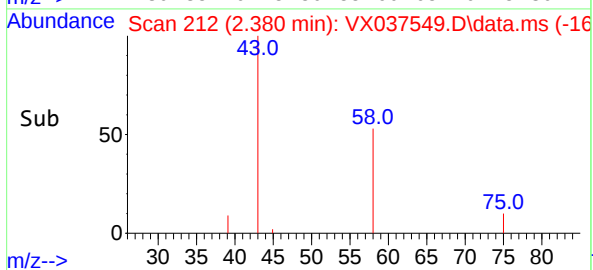
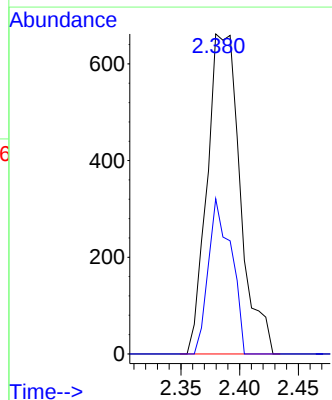
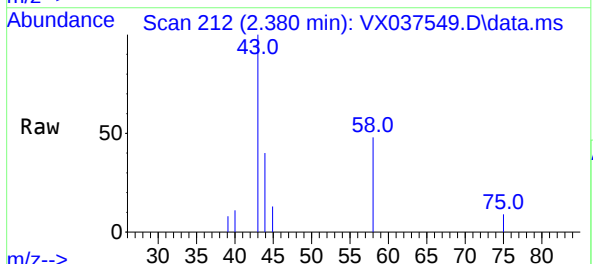
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

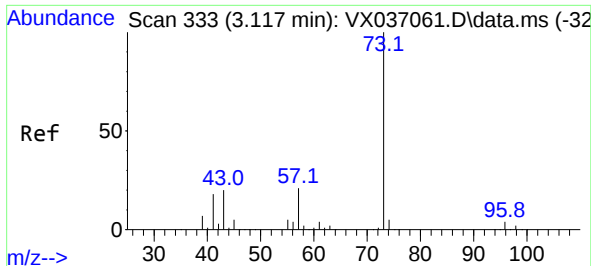
Tgt Ion: 53 Resp: 715
Ion Ratio Lower Upper
53 100
52 9.1 66.0 99.0#
51 66.0 29.8 44.6#



#16
Acetone
Concen: 1.781 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 43 Resp: 1297
Ion Ratio Lower Upper
43 100
58 48.5 21.9 32.9#





#19

Methyl tert-butyl Ether

Concen: 13.953 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Instrument :

MSVOA_X

ClientSampleId :

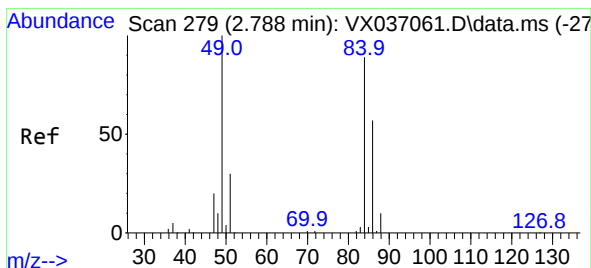
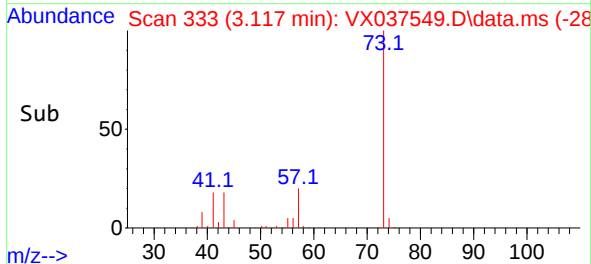
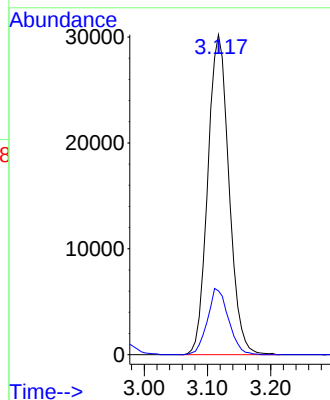
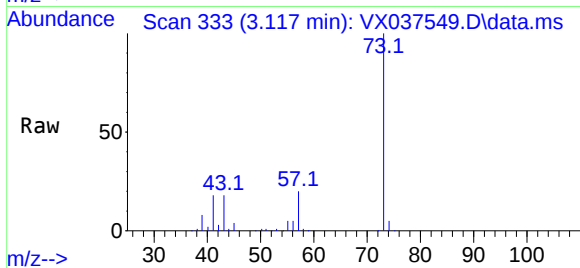
MW5DL

Tgt Ion: 73 Resp: 70351

Ion Ratio Lower Upper

73 100

57 19.9 17.3 25.9



#20

Methylene Chloride

Concen: 0.535 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Tgt Ion: 84 Resp: 872

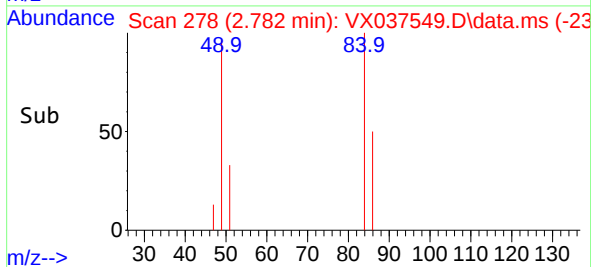
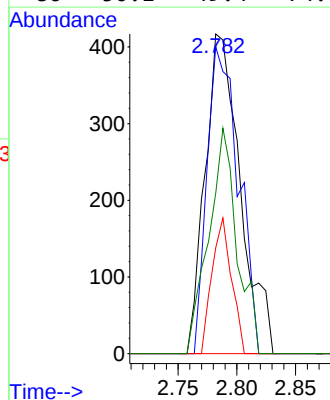
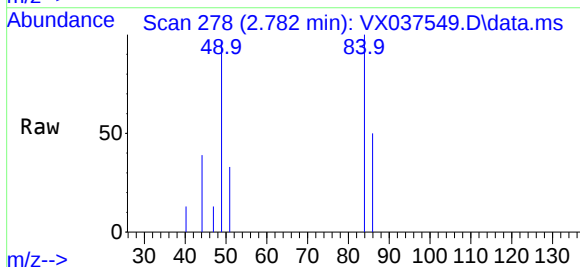
Ion Ratio Lower Upper

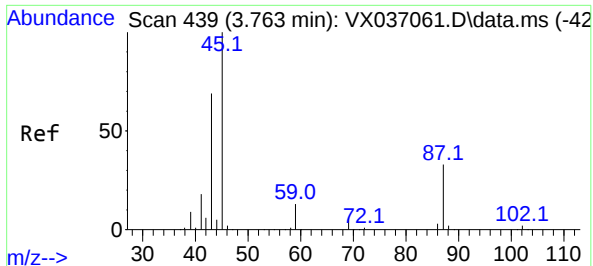
84 100

49 95.9 103.6 155.4#

51 33.1 33.8 50.6#

86 50.1 49.4 74.0

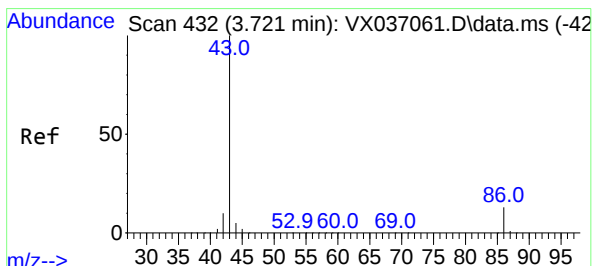
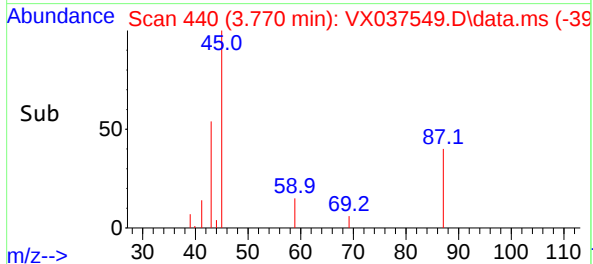
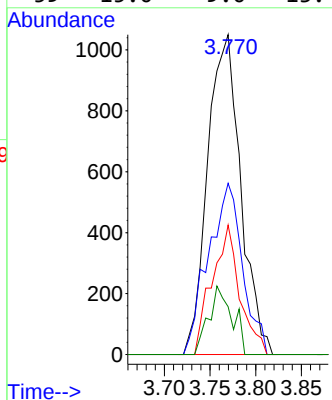
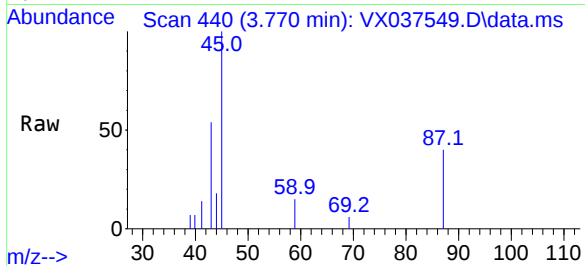




#22
Diisopropyl ether
Concen: 0.626 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.006 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

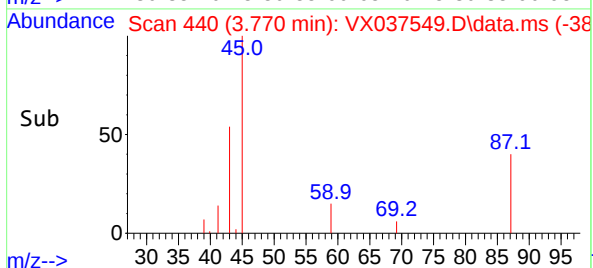
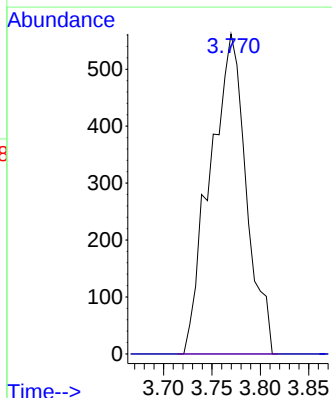
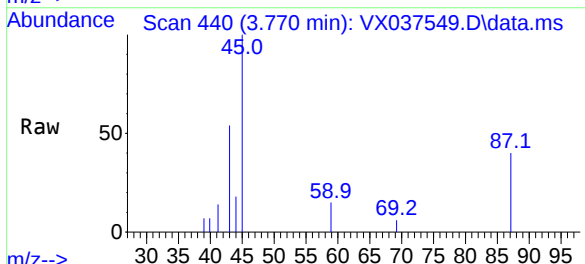
Instrument :
MSVOA_X
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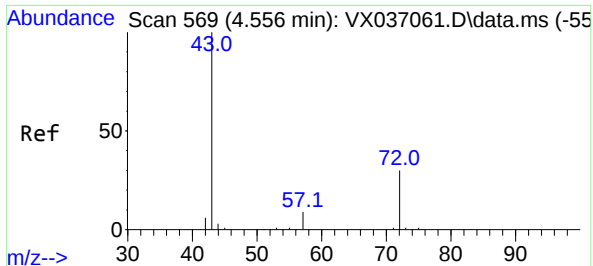
Tgt Ion:	45	Resp:	2644
Ion	Ratio	Lower	Upper
45	100		
43	53.5	69.7	104.5#
87	40.5	20.8	31.2#
59	15.0	9.0	13.4#



#23
Vinyl Acetate
Concen: 0.451 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.049 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:	43	Resp:	1460
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.8	11.8#

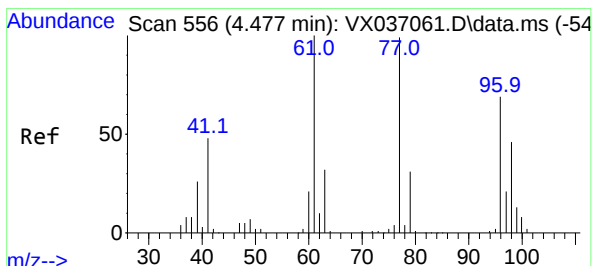
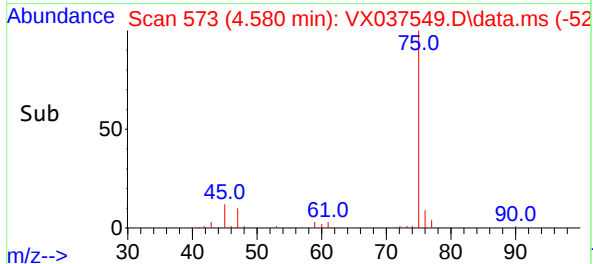
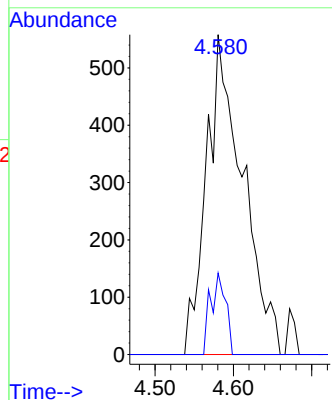
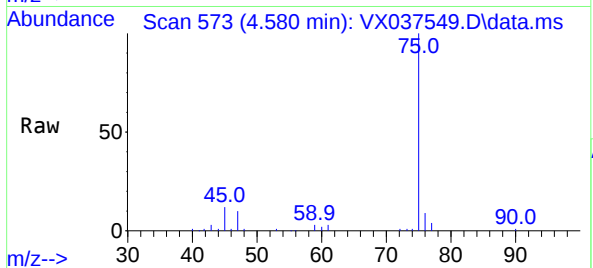




#25
2-Butanone
Concen: 1.639 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

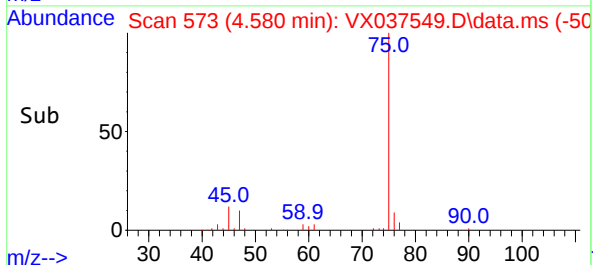
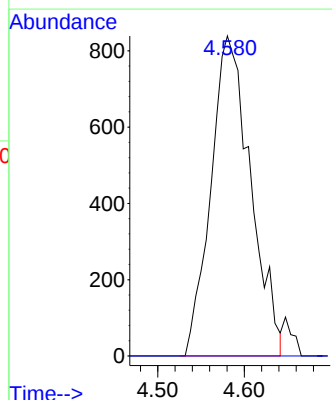
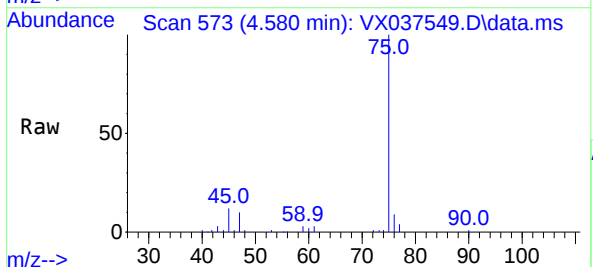
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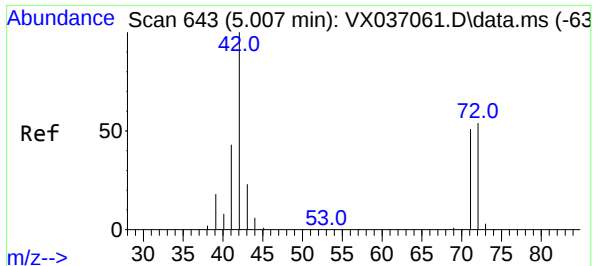
Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
72 25.4 19.4 29.2



#26
2,2-Dichloropropane
Concen: 1.130 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.104 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 77 Resp: 2672
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#





#29

Tetrahydrofuran

Concen: 14.565 ug/l

RT: 5.013 min Scan# 643

Delta R.T. 0.006 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Instrument :

MSVOA_X

ClientSampleId :

MW5DL

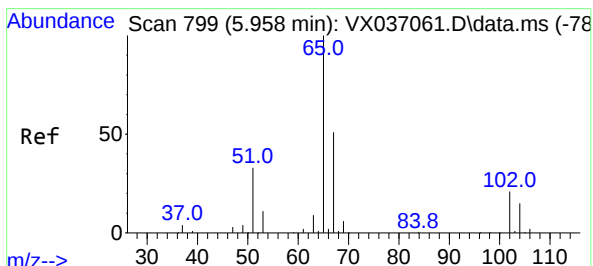
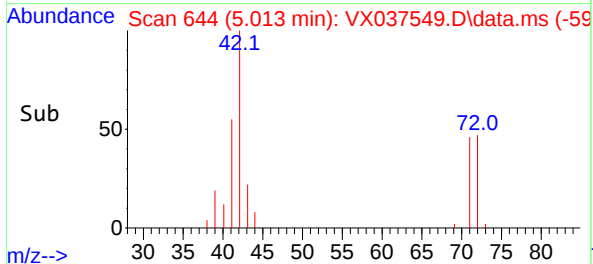
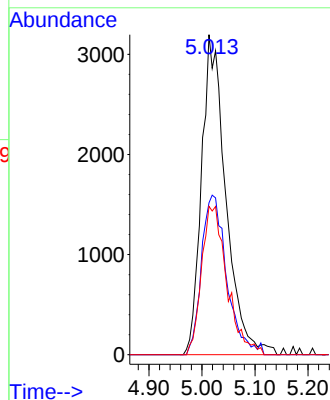
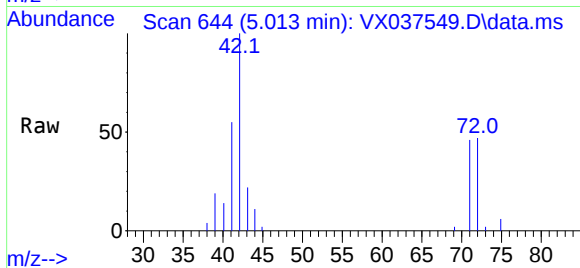
Tgt Ion: 42 Resp: 10187

Ion Ratio Lower Upper

42 100

72 51.7 34.2 51.4#

71 48.5 32.2 48.2#



#33

1,2-Dichloroethane-d4

Concen: 39.402 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX037549.D

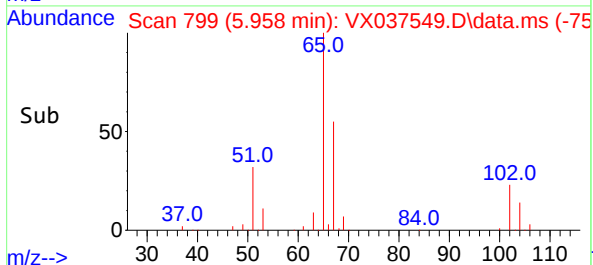
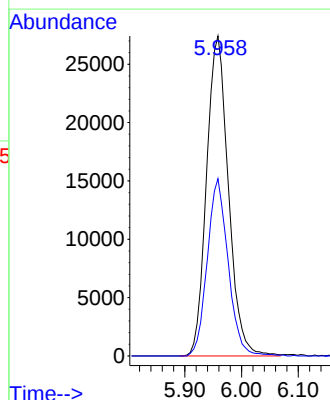
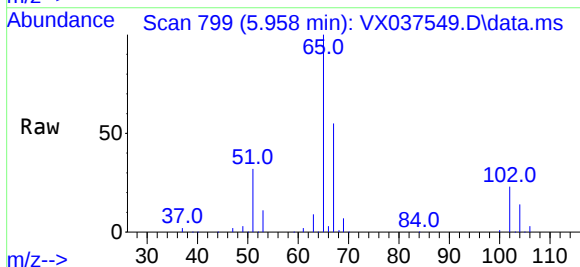
Acq: 06 Sep 2023 12:57

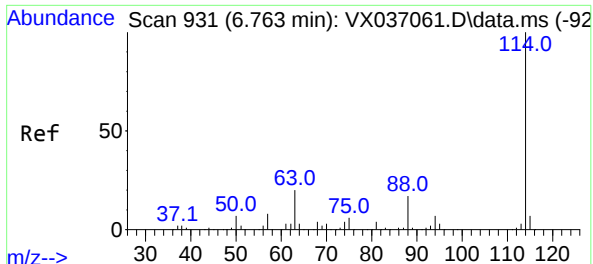
Tgt Ion: 65 Resp: 73362

Ion Ratio Lower Upper

65 100

67 52.9 0.0 100.2

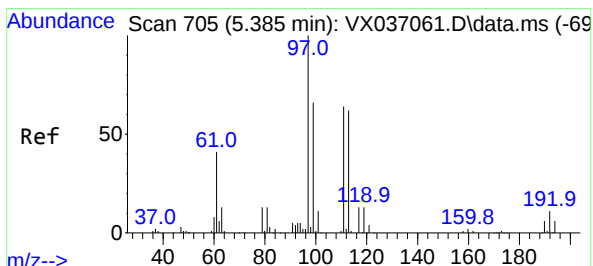
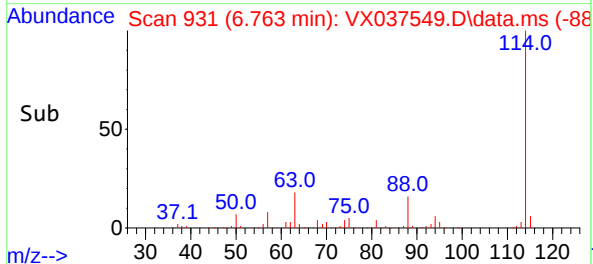
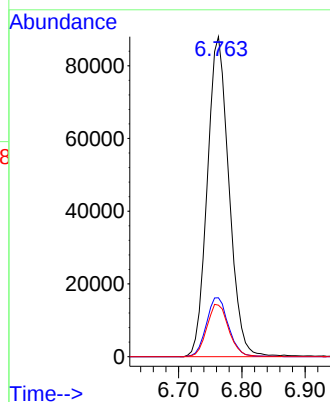
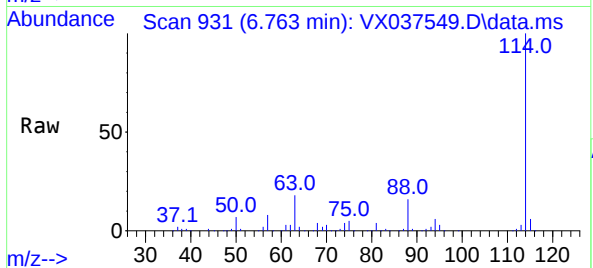




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

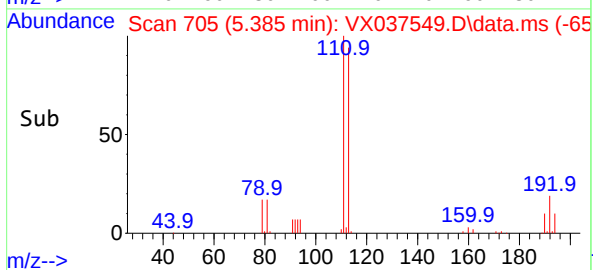
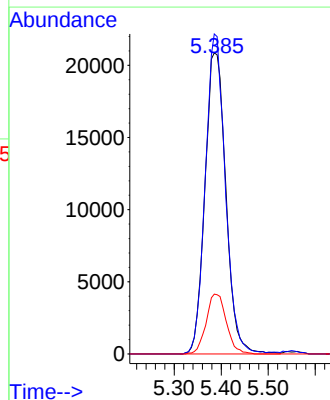
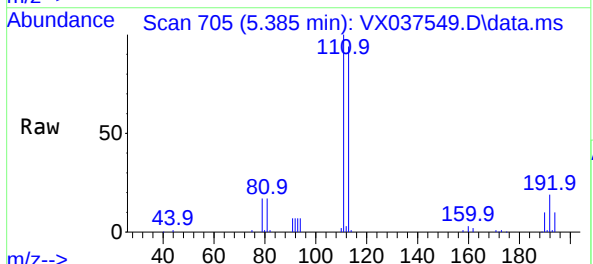
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

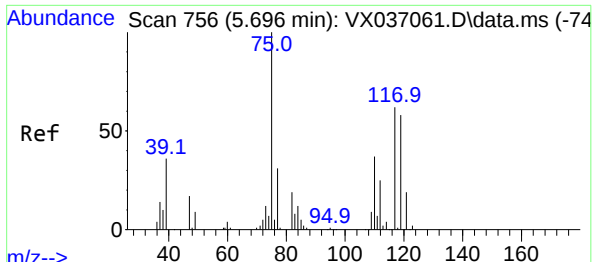
Tgt Ion:114 Resp: 209389
Ion Ratio Lower Upper
114 100
63 18.4 0.0 45.0
88 16.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.547 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:113 Resp: 64549
Ion Ratio Lower Upper
113 100
111 101.3 82.9 124.3
192 19.1 13.3 19.9

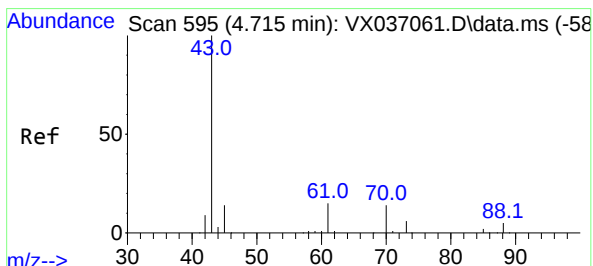
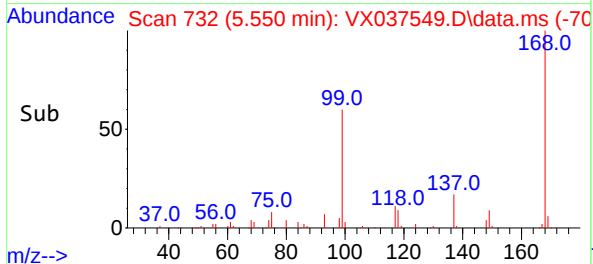
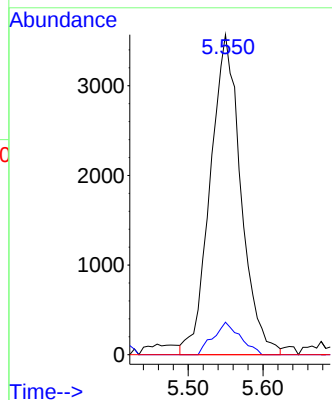
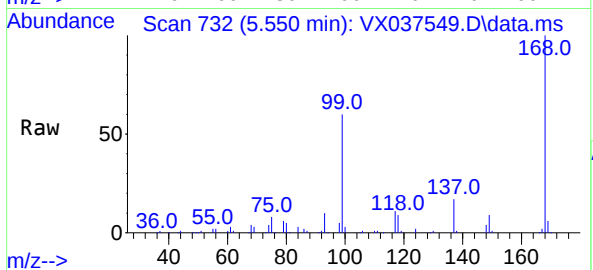




#36
1,1-Dichloropropene
Concen: 5.167 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

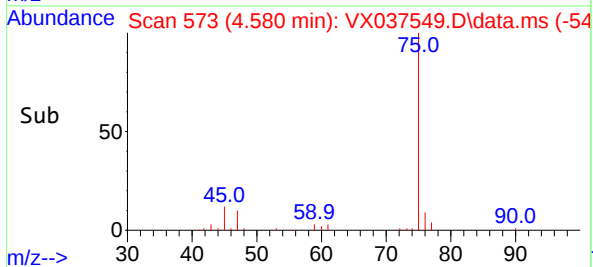
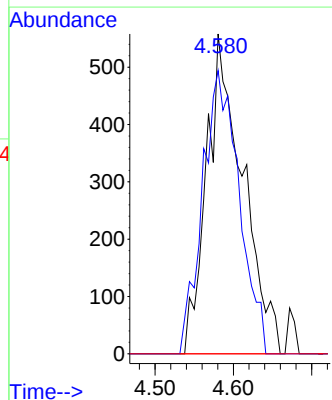
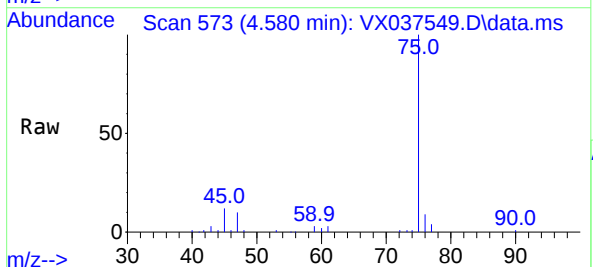
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

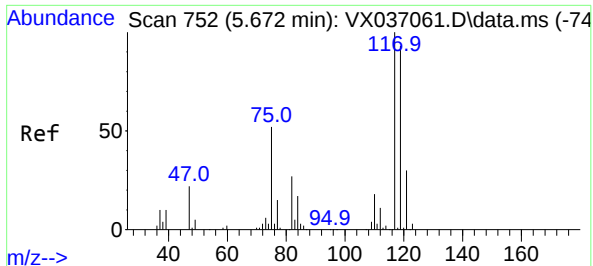
Tgt Ion: 75 Resp: 10180
Ion Ratio Lower Upper
75 100
110 8.9 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.893 ug/l
RT: 4.580 min Scan# 573
Delta R.T. -0.134 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

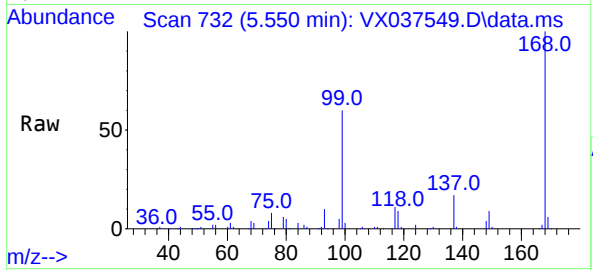
Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
61 89.4 10.6 16.0#
70 0.0 8.3 12.5#



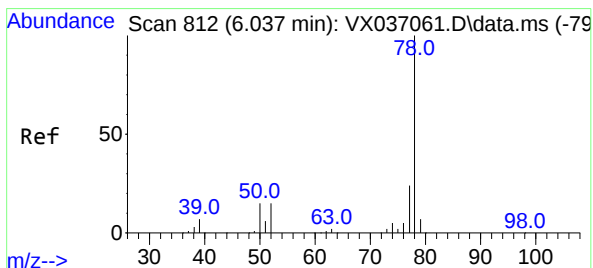
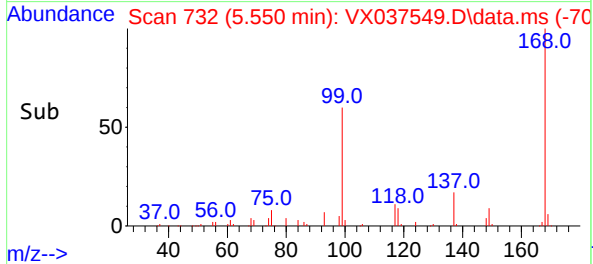
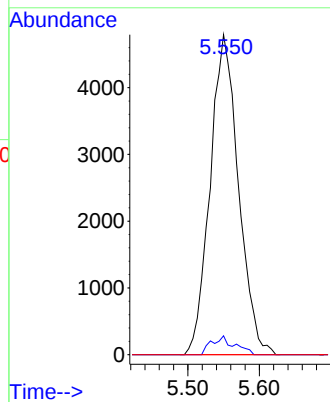


#38
Carbon Tetrachloride
Concen: 6.172 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Instrument :
MSVOA_X
ClientSampleId :
MW5DL

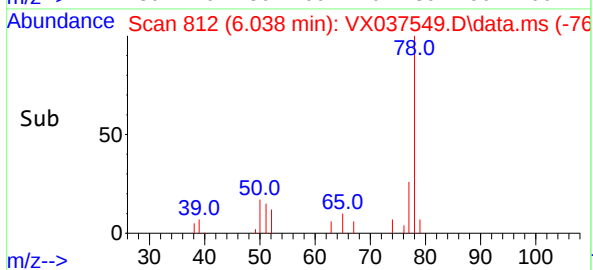
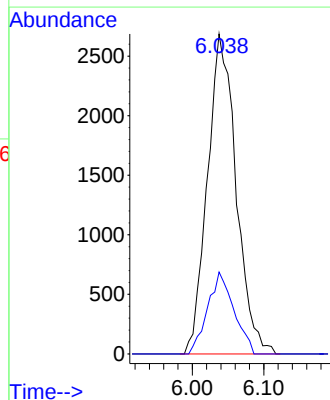
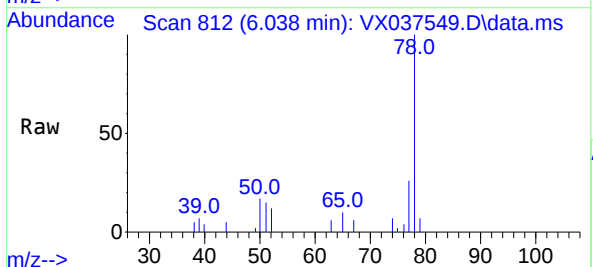


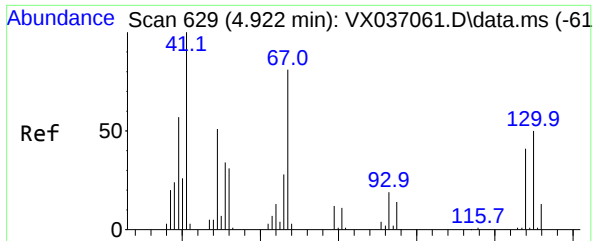
Tgt Ion:117 Resp: 13210
Ion Ratio Lower Upper
117 100
119 5.9 78.2 117.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 1.324 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 78 Resp: 7484
Ion Ratio Lower Upper
78 100
77 25.6 19.3 28.9

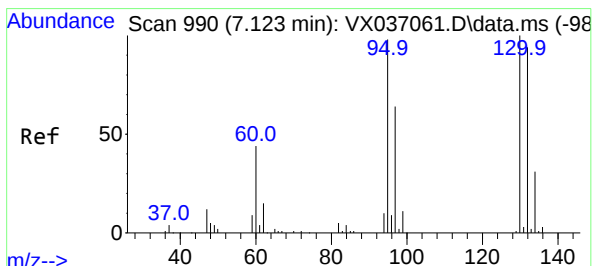
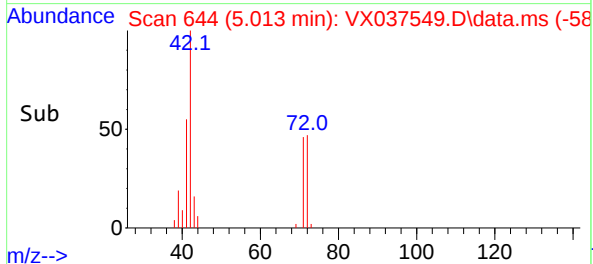
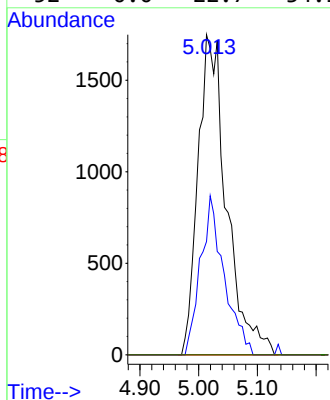
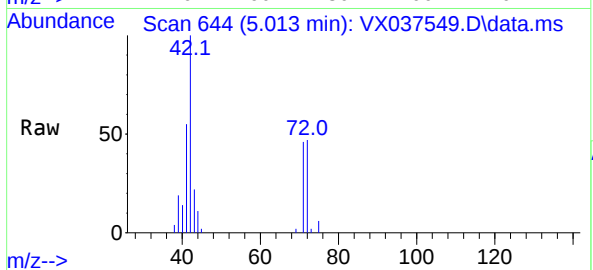




#41
Methacrylonitrile
Concen: 5.625 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.091 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

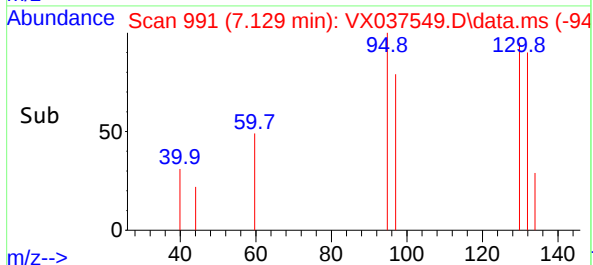
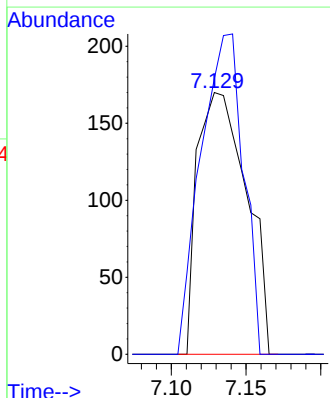
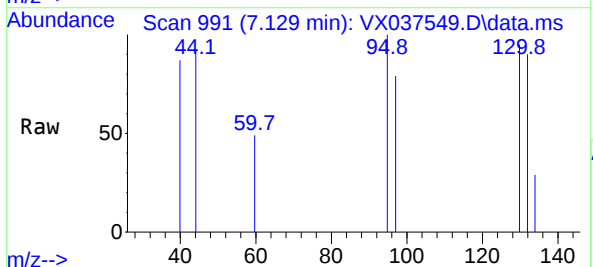
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

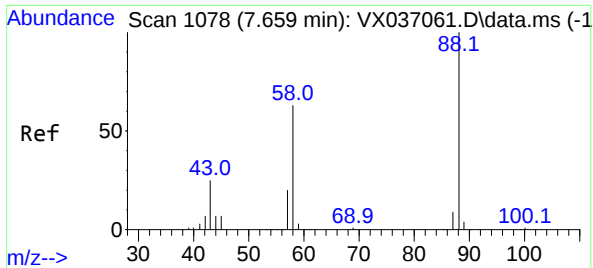
Tgt Ion: 41 Resp: 5885
Ion Ratio Lower Upper
41 100
39 41.3 45.2 67.8#
67 0.0 52.6 78.8#
52 0.0 22.7 34.1#



#44
Trichloroethene
Concen: 0.243 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:130 Resp: 389
Ion Ratio Lower Upper
130 100
95 105.3 0.0 204.4





#49

1,4-Dioxane

Concen: 11.200 ug/l

RT: 7.671 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Instrument :

MSVOA_X

ClientSampleId :

MW5DL

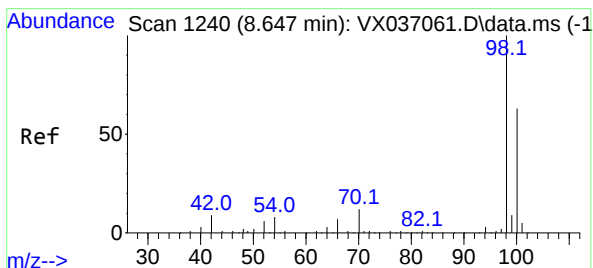
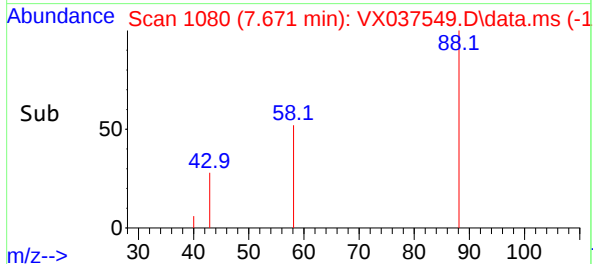
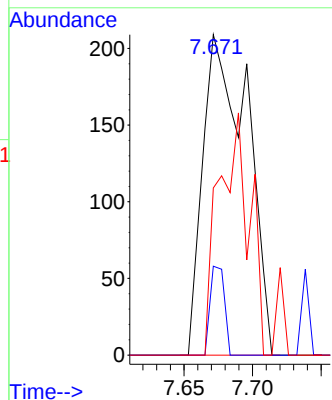
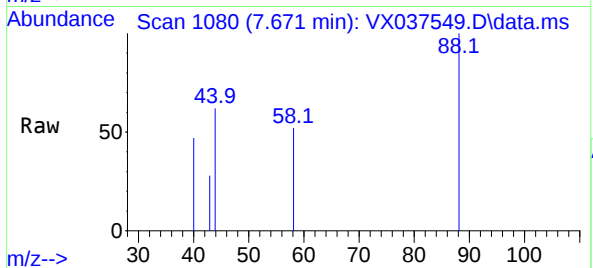
Tgt Ion: 88 Resp: 470

Ion Ratio Lower Upper

88 100

43 8.9 0.0 0.0#

58 52.1 60.1 90.1#



#50

Toluene-d8

Concen: 48.744 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037549.D

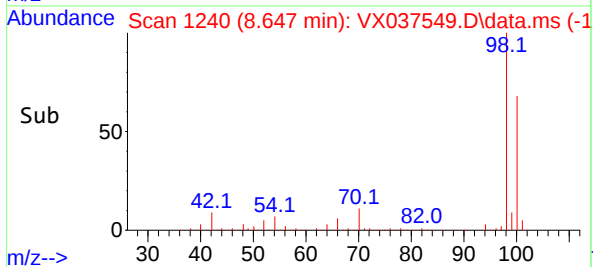
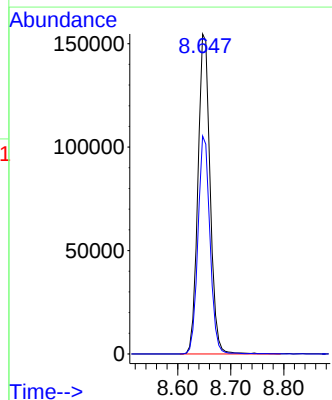
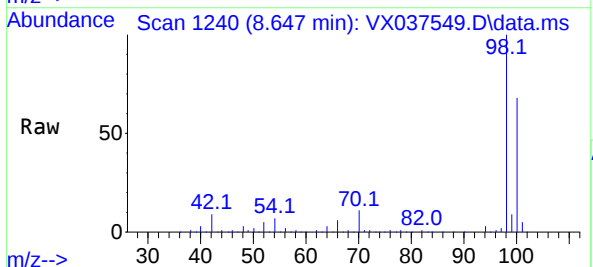
Acq: 06 Sep 2023 12:57

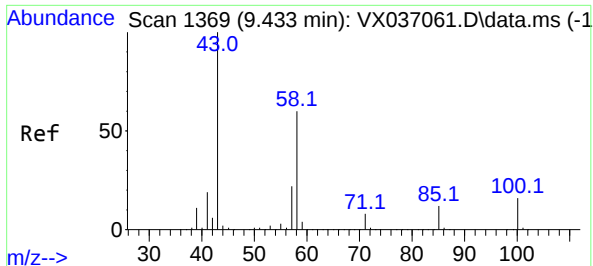
Tgt Ion: 98 Resp: 245195

Ion Ratio Lower Upper

98 100

100 67.2 53.1 79.7

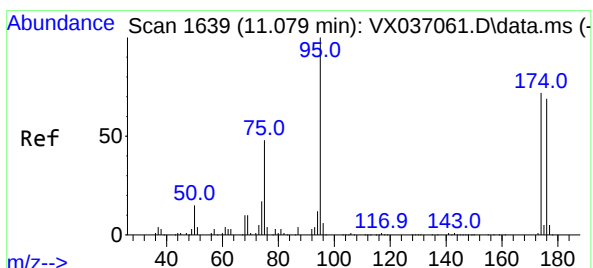
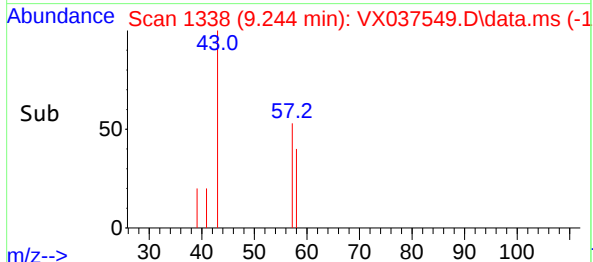
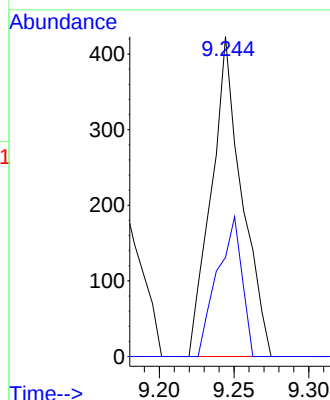
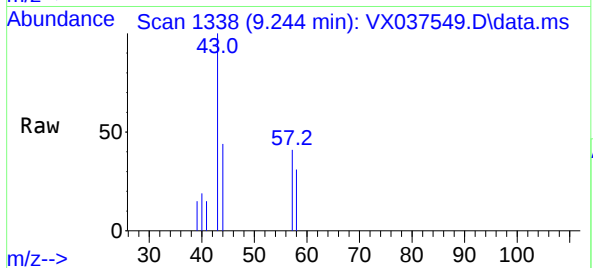




#59
2-Hexanone
Concen: 0.405 ug/l
RT: 9.244 min Scan# 11
Delta R.T. -0.189 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

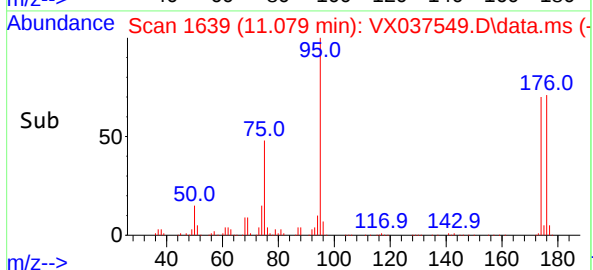
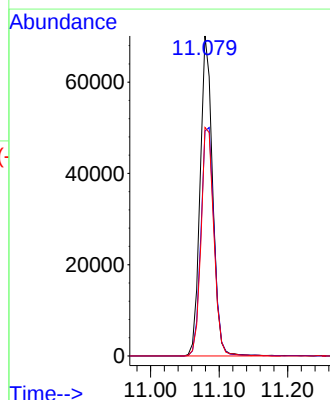
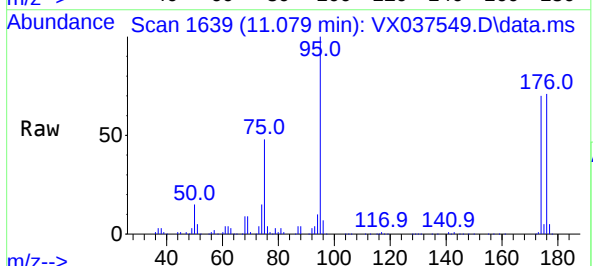
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

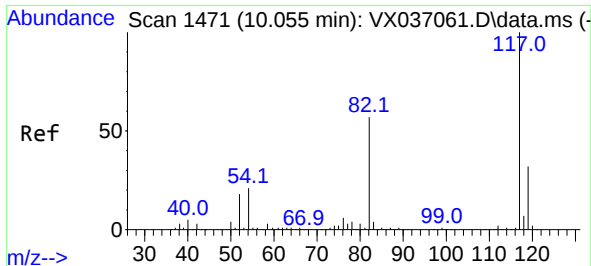
Tgt Ion: 43 Resp: 599
Ion Ratio Lower Upper
43 100
58 35.2 26.2 78.5



#62
4-Bromofluorobenzene
Concen: 45.009 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 95 Resp: 88973
Ion Ratio Lower Upper
95 100
174 75.8 0.0 135.6
176 73.4 0.0 131.0

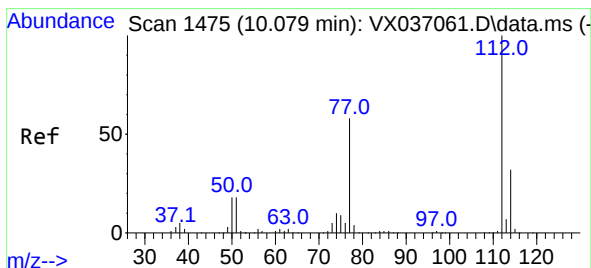
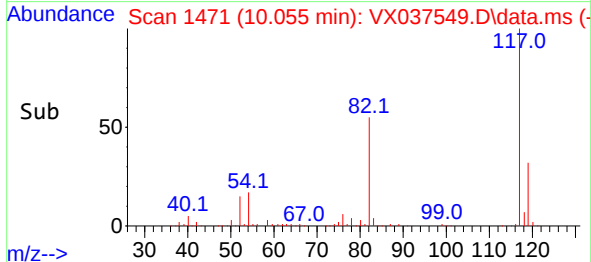
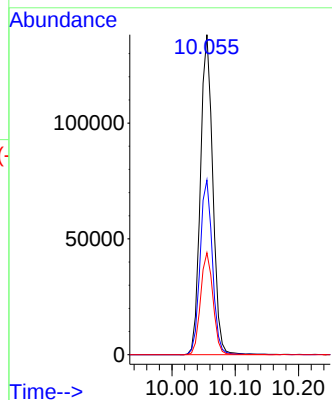
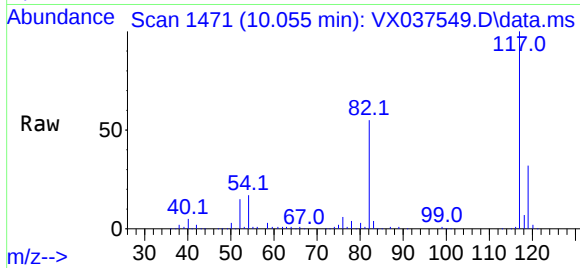




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

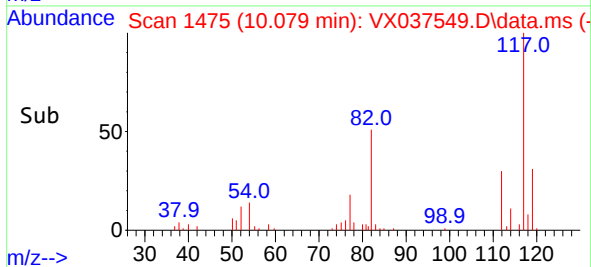
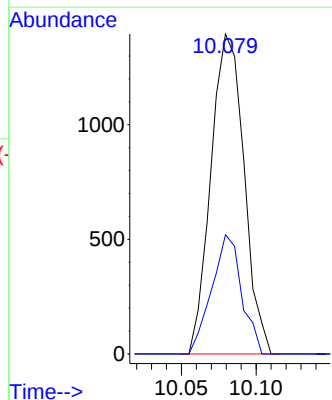
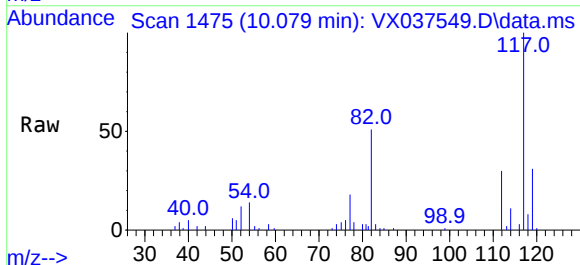
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

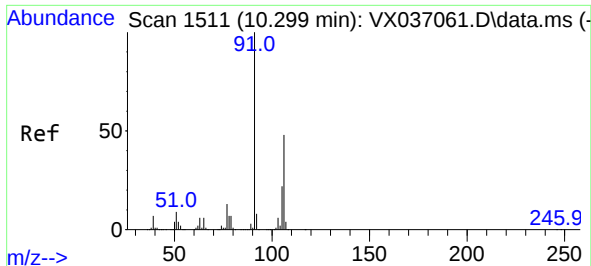
Tgt Ion:117 Resp: 188431
Ion Ratio Lower Upper
117 100
82 54.5 46.2 69.4
119 31.8 25.5 38.3



#65
Chlorobenzene
Concen: 0.539 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:112 Resp: 2145
Ion Ratio Lower Upper
112 100
114 37.2 25.7 38.5

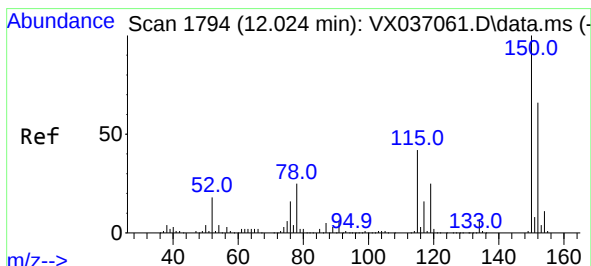
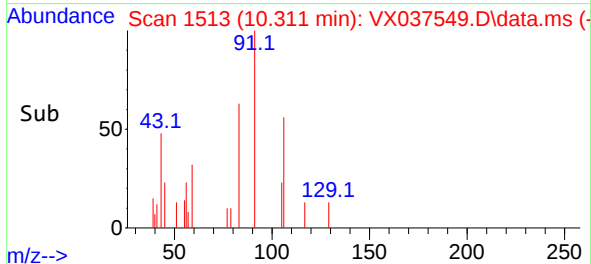
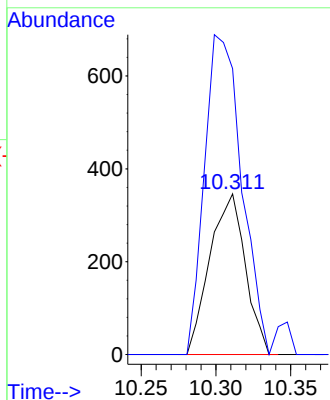
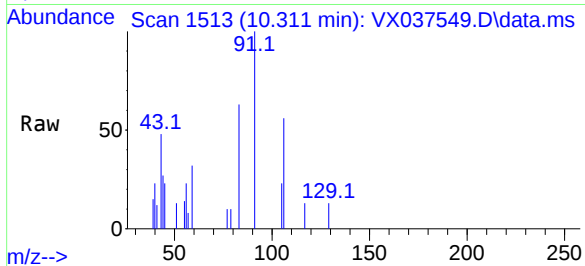




#68
m/p-Xylenes
Concen: 0.211 ug/l
RT: 10.311 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

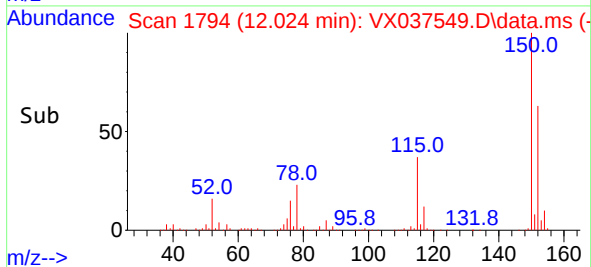
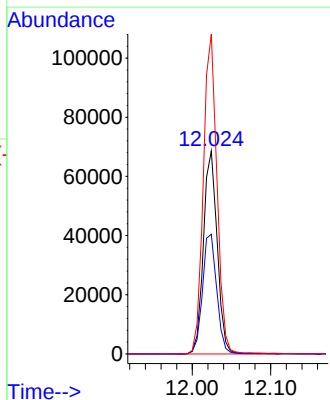
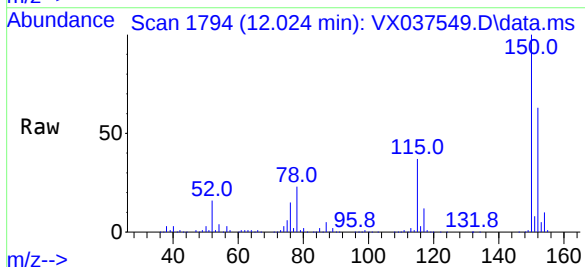
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

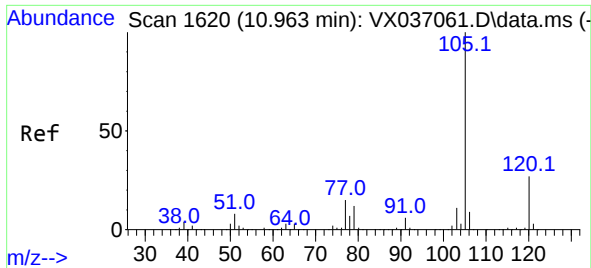
Tgt Ion:106 Resp: 570
Ion Ratio Lower Upper
106 100
91 208.9 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:152 Resp: 83739
Ion Ratio Lower Upper
152 100
115 61.0 43.3 129.9
150 156.6 0.0 345.0

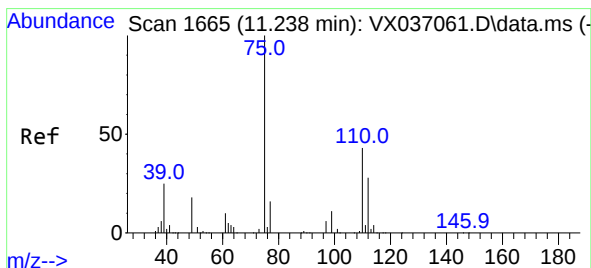
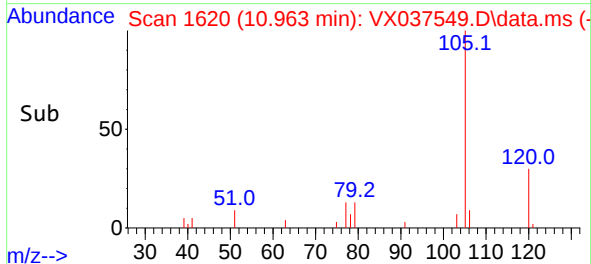
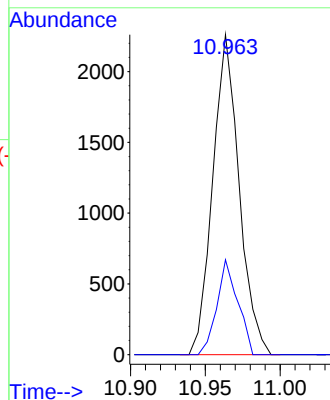
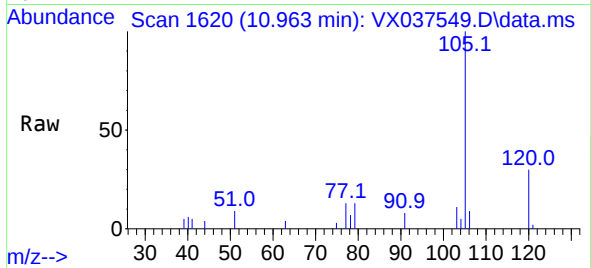




#73
Isopropylbenzene
Concen: 0.455 ug/l
RT: 10.963 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

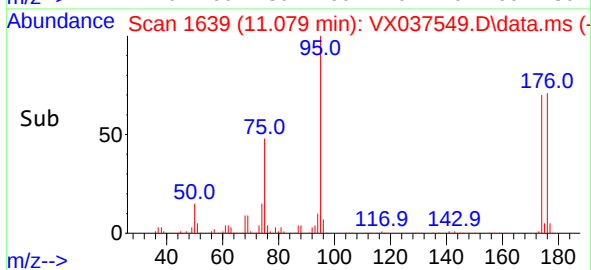
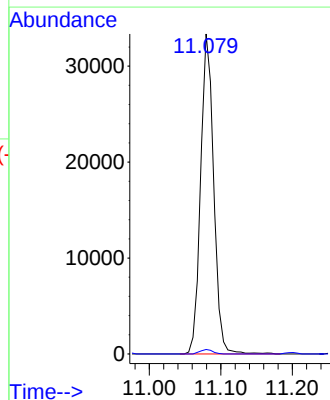
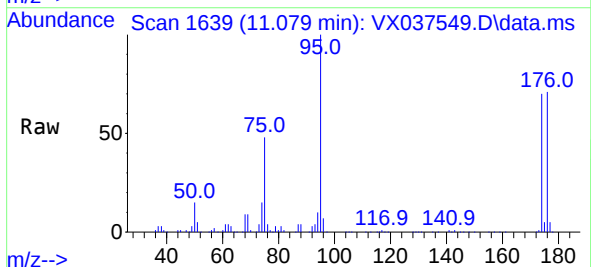
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

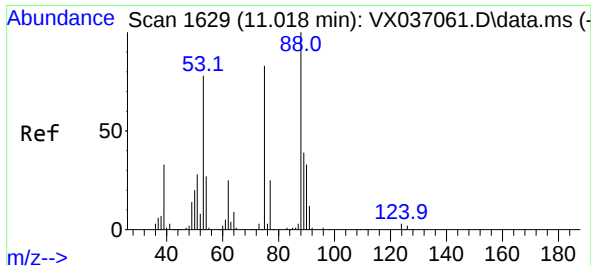
Tgt Ion:105 Resp: 2768
Ion Ratio Lower Upper
105 100
120 23.4 12.9 38.6



#76
1,2,3-Trichloropropane
Concen: 23.733 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 75 Resp: 42324
Ion Ratio Lower Upper
75 100
77 1.4 19.1 57.5#

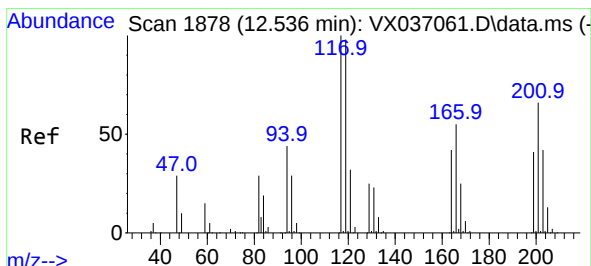
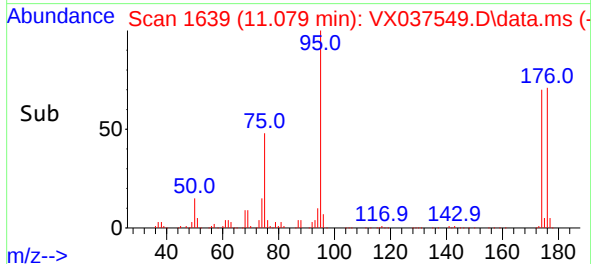
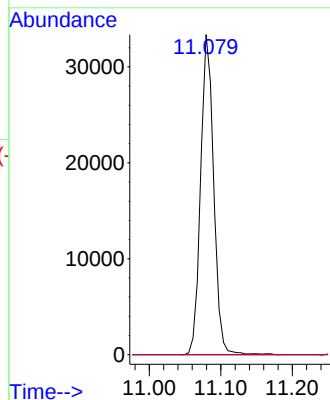
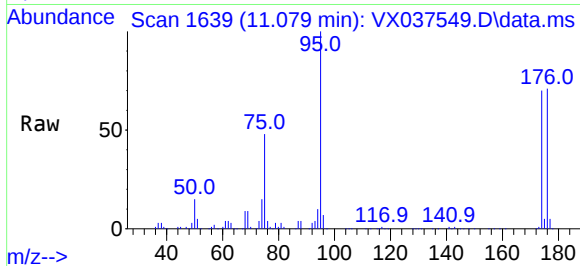




#81
trans-1,4-Dichloro-2-butene
Concen: 66.286 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

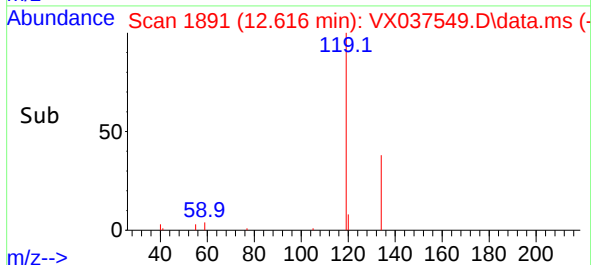
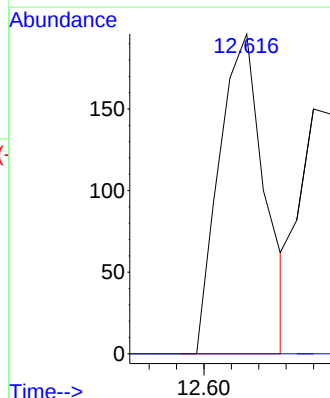
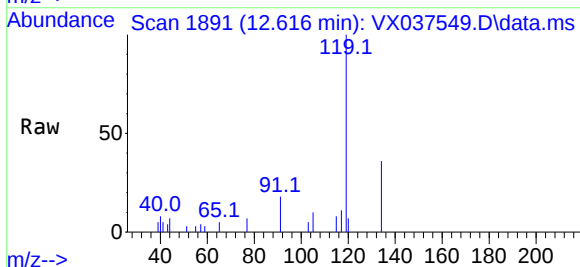
Instrument :
MSVOA_X
ClientSampleId :
MW5DL

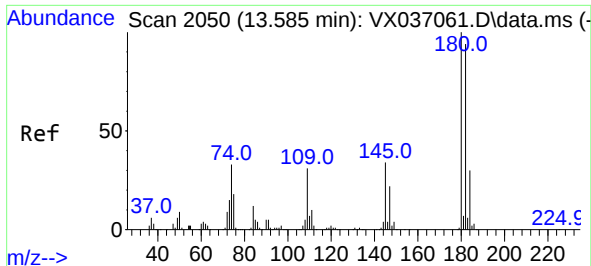
Tgt Ion: 75 Resp: 42324
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#90
Hexachloroethane
Concen: 0.278 ug/l
RT: 12.616 min Scan# 1891
Delta R.T. 0.079 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion: 117 Resp: 226
Ion Ratio Lower Upper
117 100
201 0.0 32.9 98.6#





#93

1,2,4-Trichlorobenzene

Concen: 0.336 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

Instrument :

MSVOA_X

ClientSampleId :

MW5DL

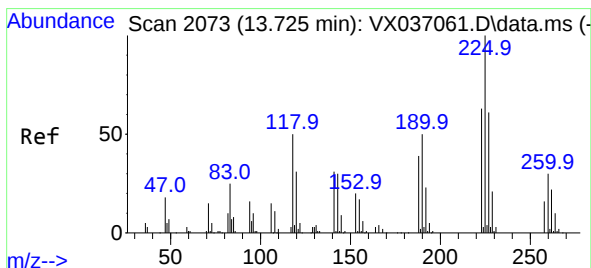
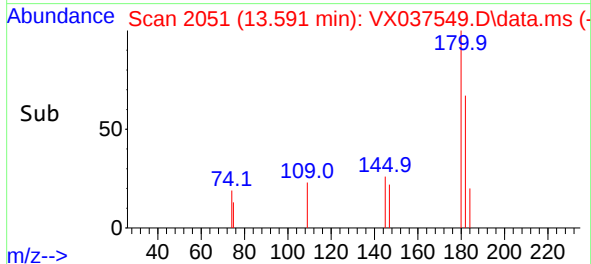
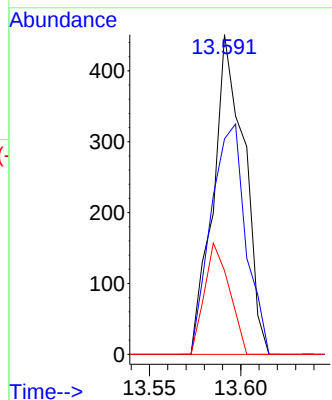
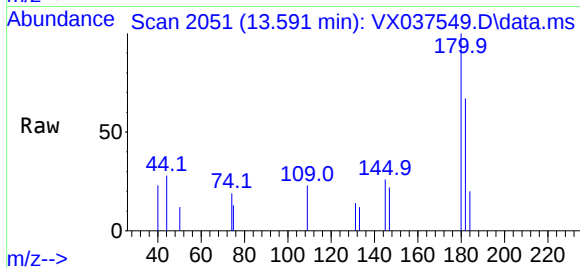
Tgt Ion:180 Resp: 535

Ion Ratio Lower Upper

180 100

182 80.6 48.3 144.8

145 27.9 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.284 ug/l

RT: 13.731 min Scan# 2074

Delta R.T. 0.006 min

Lab File: VX037549.D

Acq: 06 Sep 2023 12:57

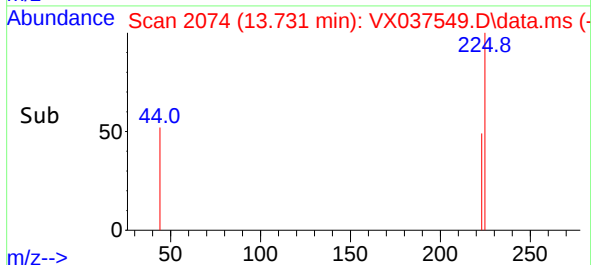
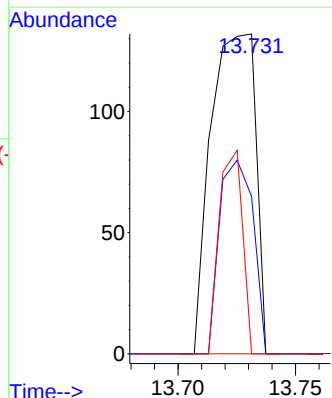
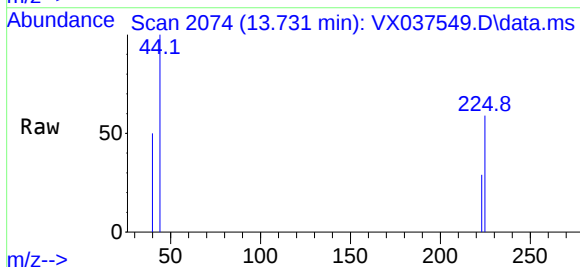
Tgt Ion:225 Resp: 175

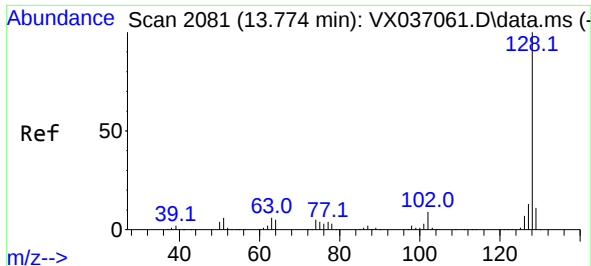
Ion Ratio Lower Upper

225 100

223 45.1 31.1 93.2

227 33.1 32.5 97.5

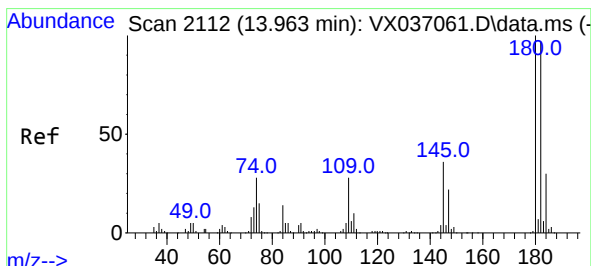
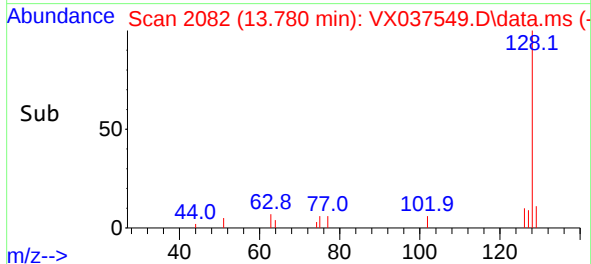
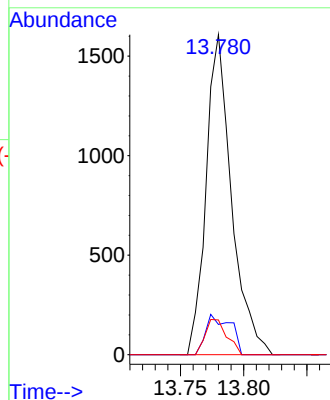
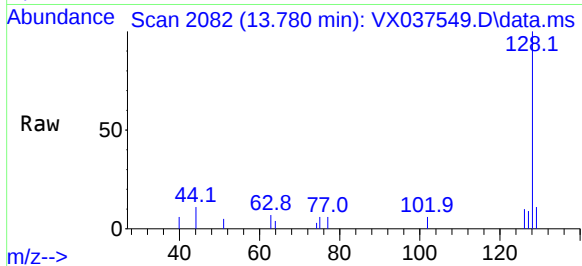




#95
Naphthalene
Concen: 0.323 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Instrument :
MSVOA_X
ClientSampleId :
MW5DL

Tgt Ion:128	Resp:	2253	
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.3	15.5
129	9.4	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.261 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX037549.D
Acq: 06 Sep 2023 12:57

Tgt Ion:180	Resp:	414	
Ion	Ratio	Lower	Upper
180	100		
182	105.3	46.9	140.6
145	26.1	17.8	53.5

