

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102122\
 Data File : VN074973.D
 Acq On : 21 Oct 2022 19:49
 Operator : JC\MD
 Sample : N5222-19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

Quant Time: Oct 22 02:56:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102022W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 21 09:37:47 2022
 Response via : Initial Calibration

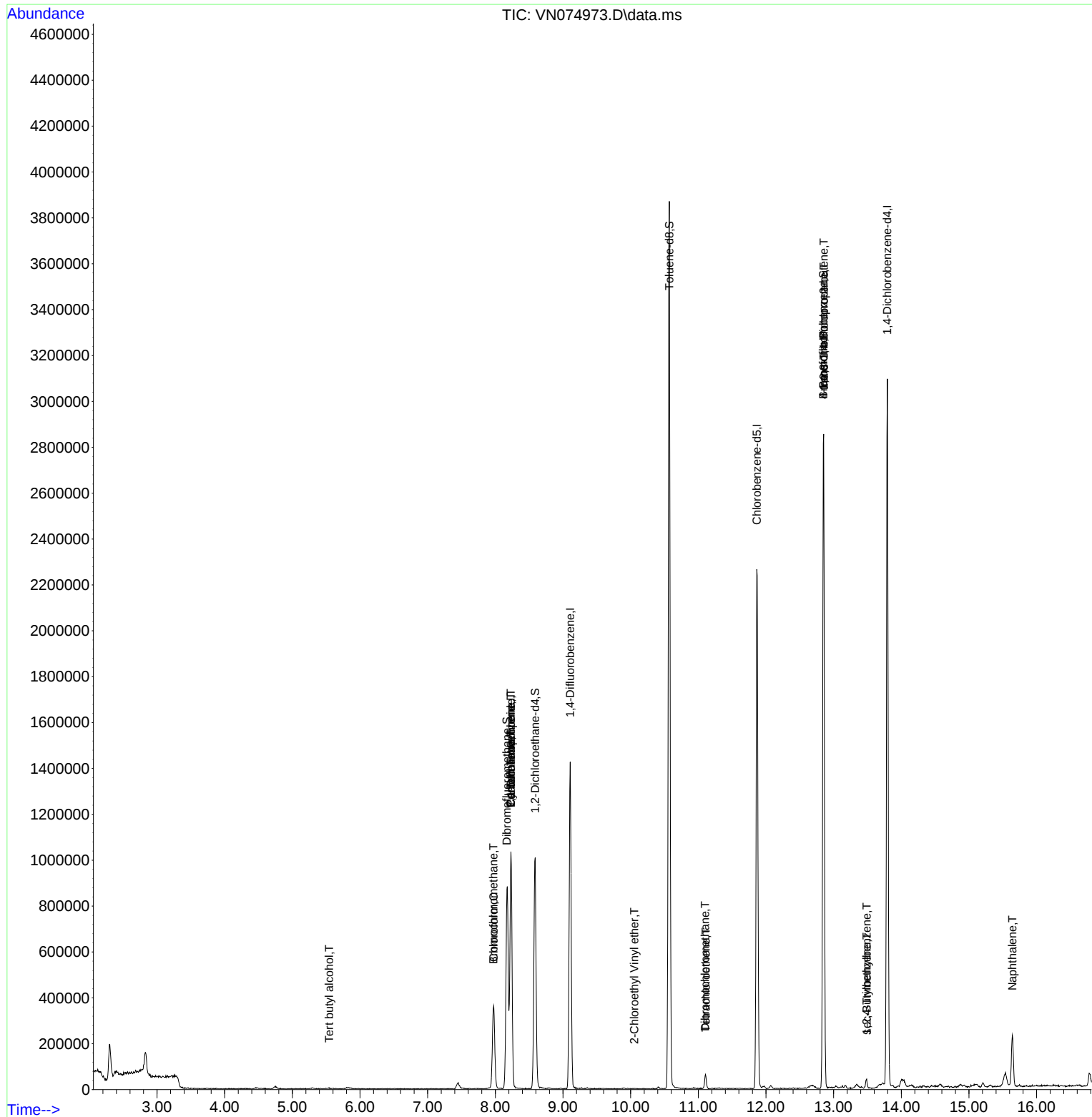
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	707834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1230750	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1315507	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	790569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	812509	43.203	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.400%
35) Dibromofluoromethane	8.171	113	633939	43.275	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	86.560%
50) Toluene-d8	10.571	98	2640944	46.988	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.980%
62) 4-Bromofluorobenzene	12.847	95	975221	49.190	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	98.380%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	2999	Below Cal		89
4) Vinyl Chloride	2.530	62	565	Below Cal	#	1
5) Bromomethane	2.924	94	618	Below Cal	#	24
6) Chloroethane	3.083	64	1310	Below Cal	#	40
7) Trichlorofluoromethane	3.236	101	60	Below Cal	#	8
11) Tert butyl alcohol	5.542	59	894	0.225 ug/l	#	72
12) 1,1-Dichloroethene	4.459	96	127	Below Cal	#	5
13) Acrolein	4.183	56	219	Below Cal	#	72
16) Acetone	4.459	43	4031	Below Cal	#	76
17) Carbon Disulfide	4.712	76	262	Below Cal	#	74
20) Methylene Chloride	5.289	84	2814	Below Cal	#	77
21) trans-1,2-Dichloroethene	5.947	96	144	Below Cal	#	1
28) Bromochloromethane	7.971	49	28581	2.815 ug/l	#	11
30) Chloroform	7.977	83	342227	12.428 ug/l		94
31) Cyclohexane	8.230	56	19266	1.003 ug/l	#	48
36) 1,1-Dichloropropene	8.230	75	64005	3.469 ug/l	#	50
38) Carbon Tetrachloride	8.230	117	76387	3.804 ug/l	#	17
58) 2-Chloroethyl Vinyl ether	10.053	63	104	3.619 ug/l	#	45
60) Dibromochloromethane	11.100	129	13164	0.805 ug/l	#	10
64) Tetrachloroethene	11.112	164	11534	1.072 ug/l	#	83
71) Bromoform	12.847	173	8169	0.722 ug/l	#	1
76) 1,2,3-Trichloropropane	12.853	75	557287	25.994 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	557287	83.341 ug/l	#	10
84) 1,2,4-Trimethylbenzene	13.488	105	21913	0.389 ug/l		97
85) sec-Butylbenzene	13.488	105	21913	0.316 ug/l	#	57
95) Naphthalene	15.641	128	215174	4.480 ug/l		99

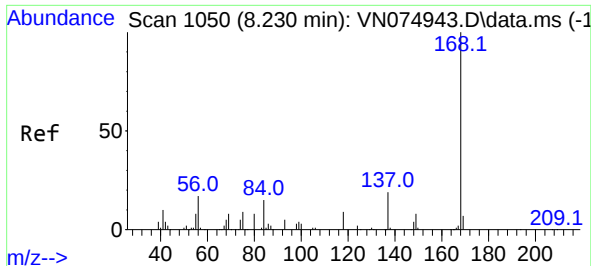
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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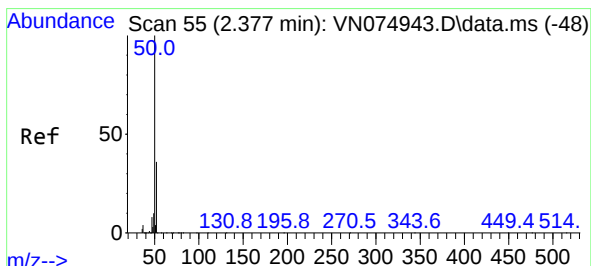
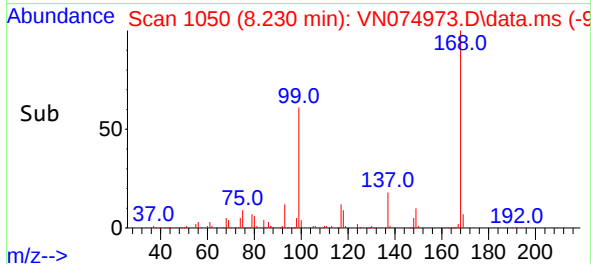
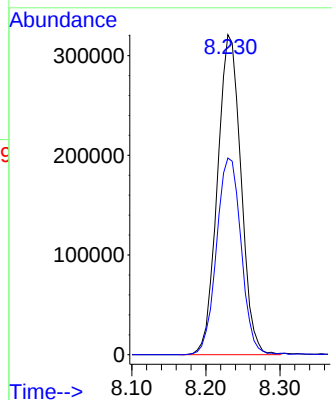
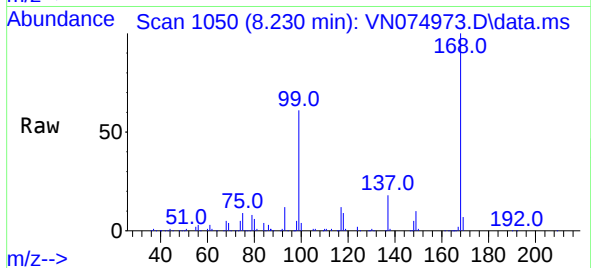




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

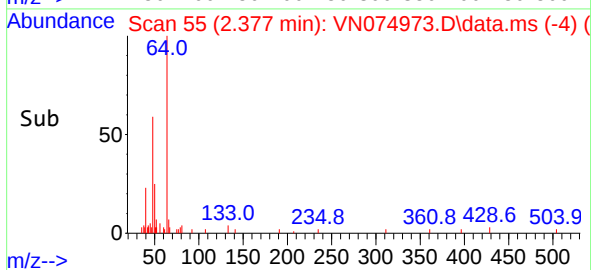
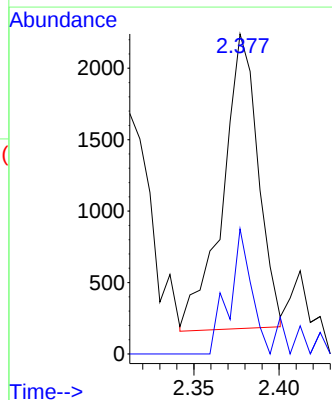
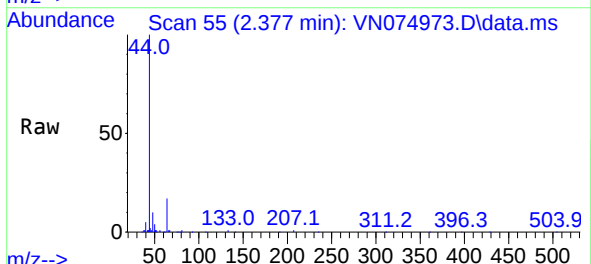
Instrument :
MSVOA_N
ClientSampleId :
MW-17

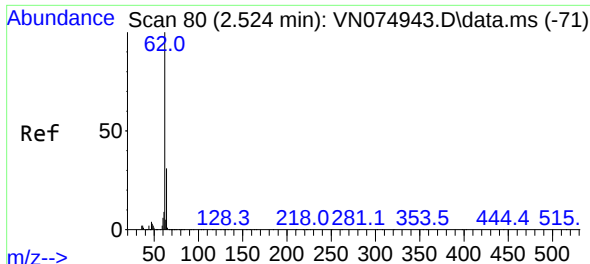
Tgt Ion:168 Resp: 707834
Ion Ratio Lower Upper
168 100
99 61.4 52.2 78.4



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 55
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 50 Resp: 2999
Ion Ratio Lower Upper
50 100
52 42.8 28.8 43.2

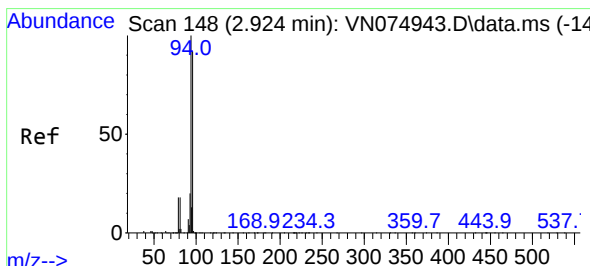
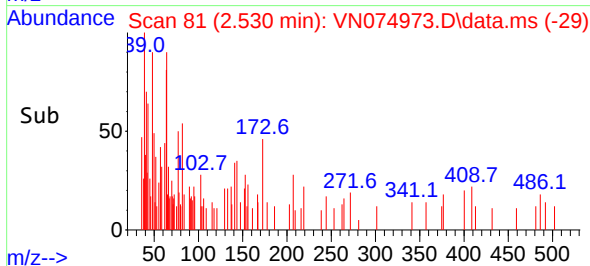
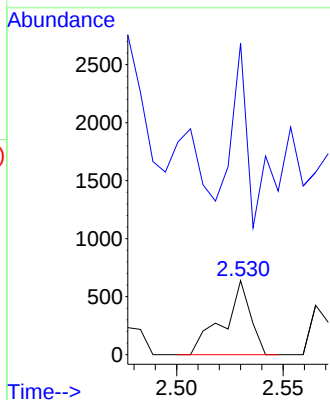
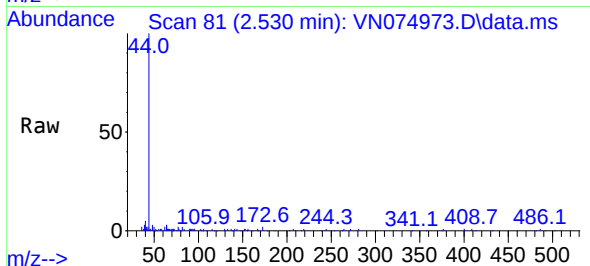




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.530 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VN074973.D
 Acq: 21 Oct 2022 19:49

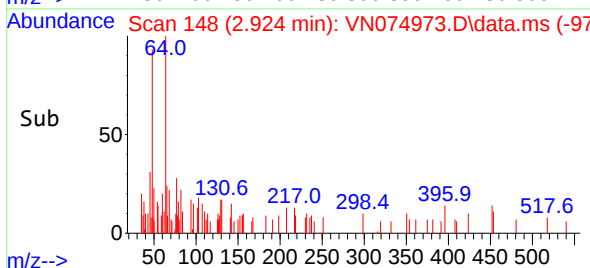
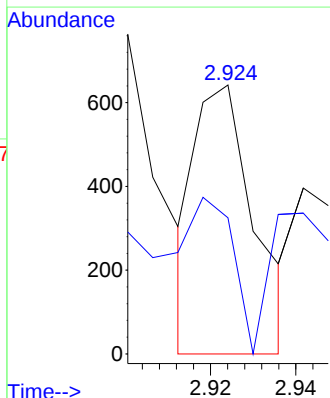
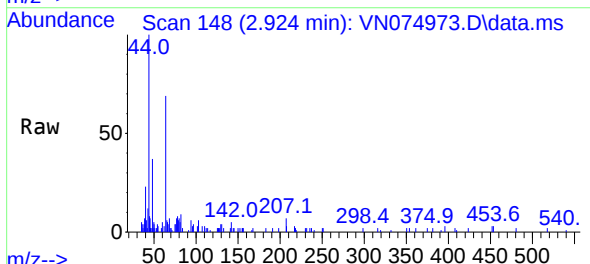
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

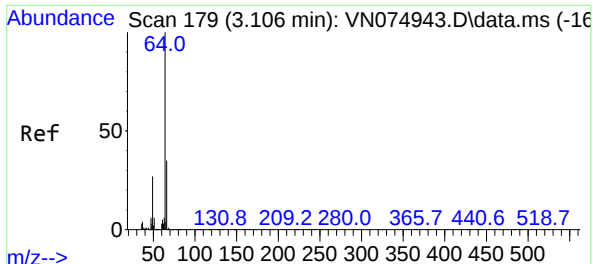
Tgt Ion: 62 Resp: 565
 Ion Ratio Lower Upper
 62 100
 64 199.7 24.5 36.7#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.924 min Scan# 148
 Delta R.T. 0.000 min
 Lab File: VN074973.D
 Acq: 21 Oct 2022 19:49

Tgt Ion: 94 Resp: 618
 Ion Ratio Lower Upper
 94 100
 96 19.4 73.5 110.3#

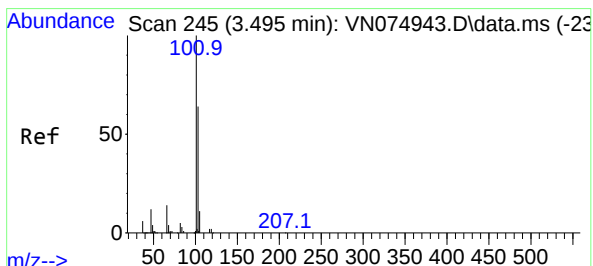
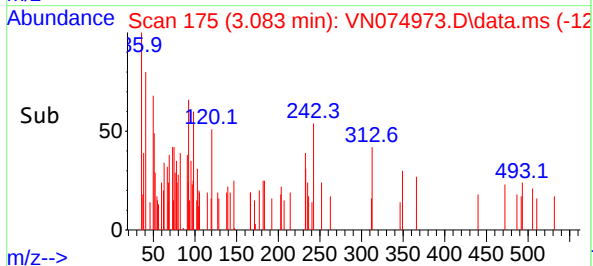
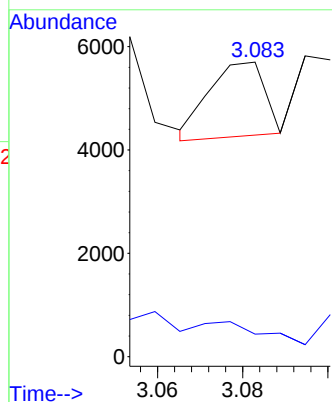
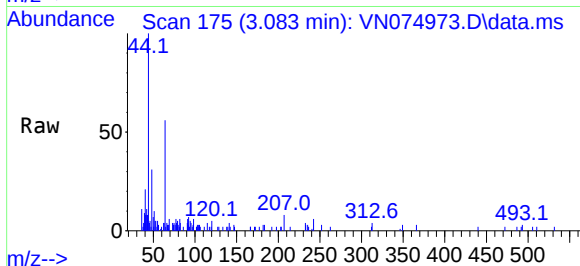




#6
Chloroethane
Concen: Below Cal
RT: 3.083 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

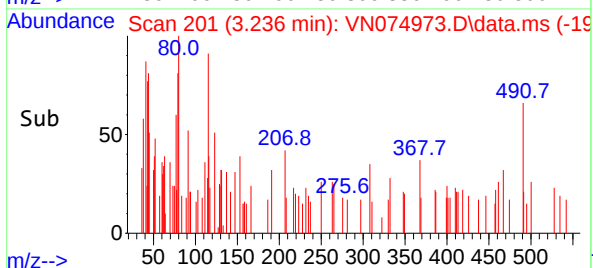
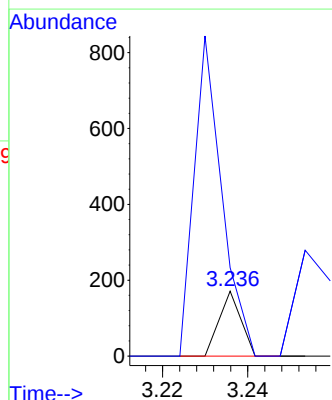
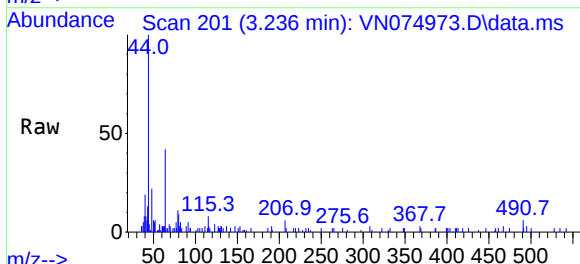
Instrument :
MSVOA_N
ClientSampleId :
MW-17

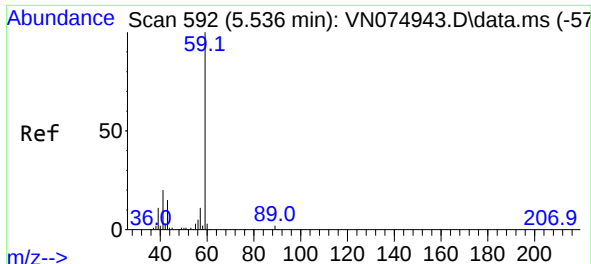
Tgt Ion: 64 Resp: 1310
Ion Ratio Lower Upper
64 100
66 0.0 27.9 41.9#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.236 min Scan# 201
Delta R.T. -0.259 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion:101 Resp: 60
Ion Ratio Lower Upper
101 100
103 136.3 51.5 77.3#





#11

Tert butyl alcohol

Concen: 0.225 ug/l

RT: 5.542 min Scan# 59

Delta R.T. 0.006 min

Lab File: VN074973.D

Acq: 21 Oct 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

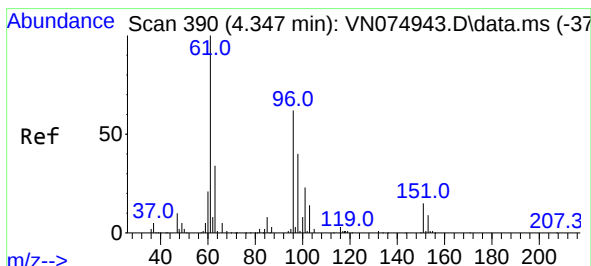
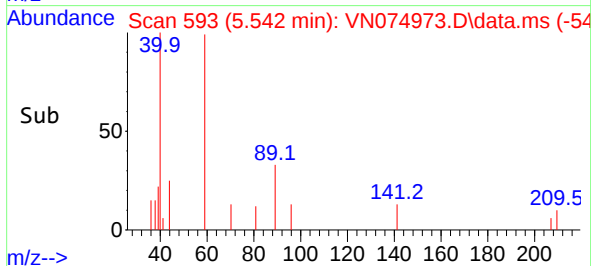
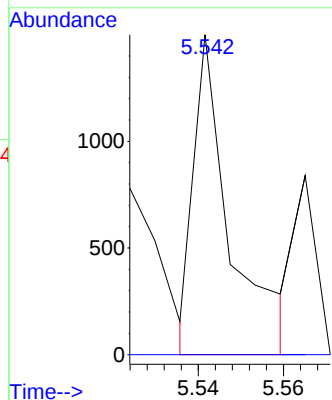
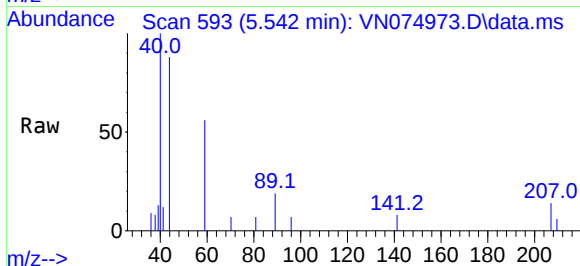
MW-17

Tgt Ion: 59 Resp: 894

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#12

1,1-Dichloroethene

Concen: Below Cal

RT: 4.459 min Scan# 409

Delta R.T. 0.112 min

Lab File: VN074973.D

Acq: 21 Oct 2022 19:49

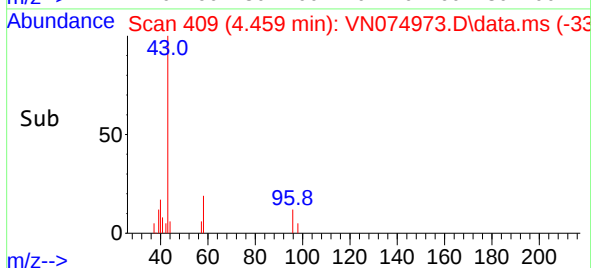
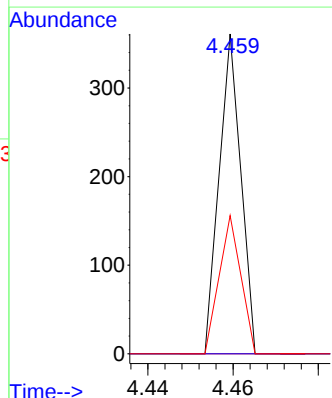
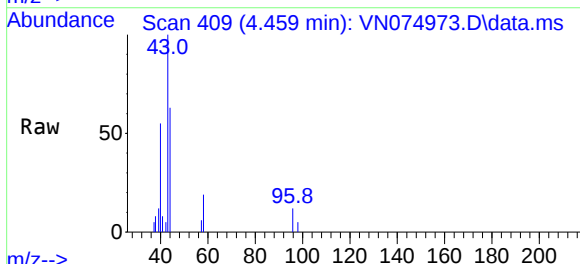
Tgt Ion: 96 Resp: 127

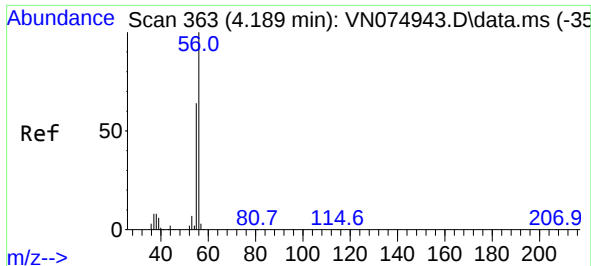
Ion Ratio Lower Upper

96 100

61 0.0 128.9 193.3#

98 43.2 51.8 77.8#

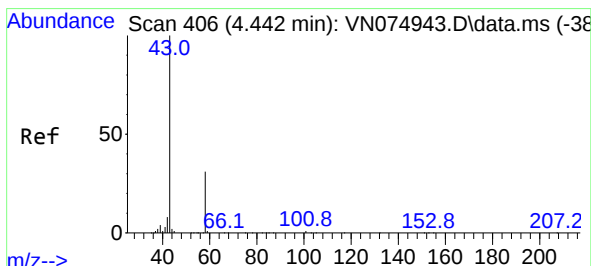
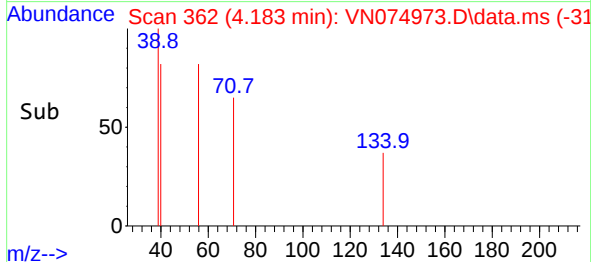
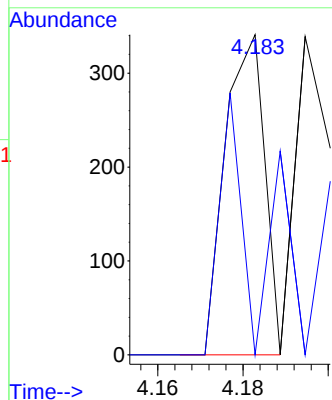
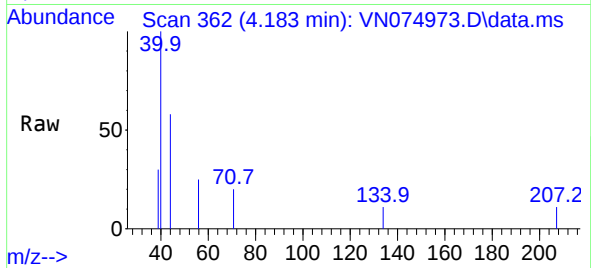




#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 301
Delta R.T. -0.006 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

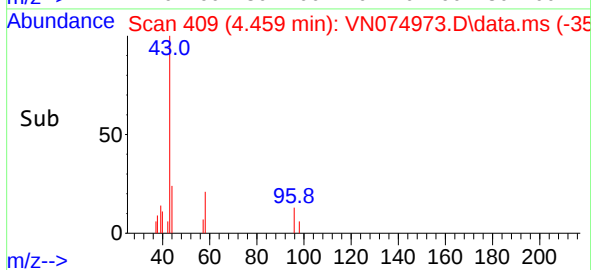
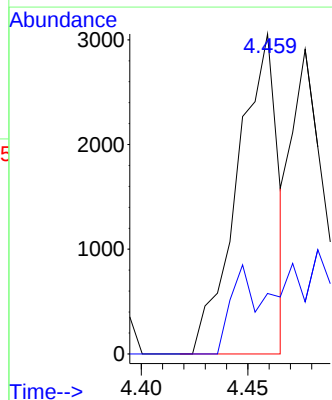
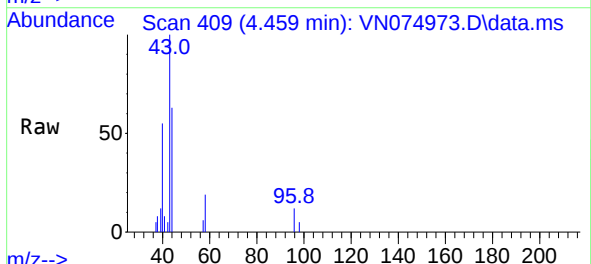
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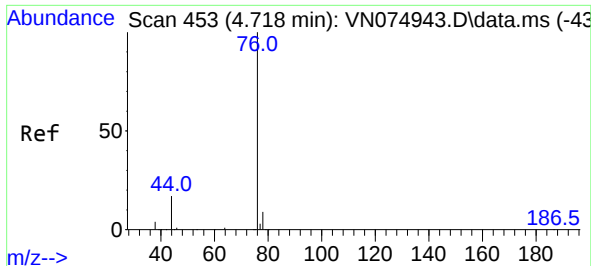
Tgt Ion: 56 Resp: 219
Ion Ratio Lower Upper
56 100
55 44.7 53.7 80.5#



#16
Acetone
Concen: Below Cal
RT: 4.459 min Scan# 409
Delta R.T. 0.017 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 43 Resp: 4031
Ion Ratio Lower Upper
43 100
58 18.9 25.7 38.5#

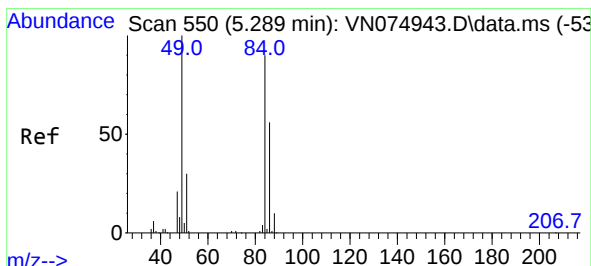
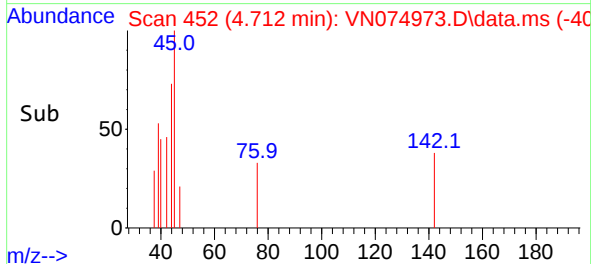
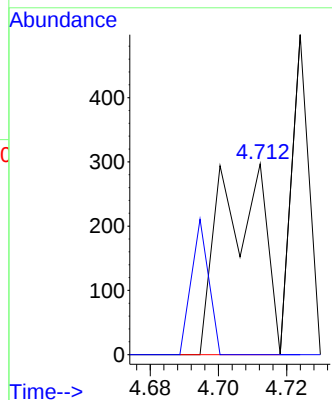
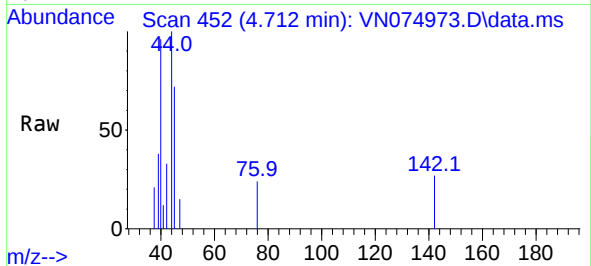




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.712 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

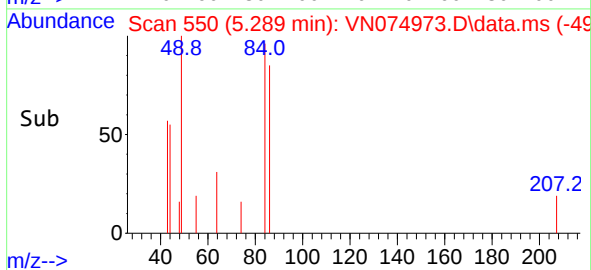
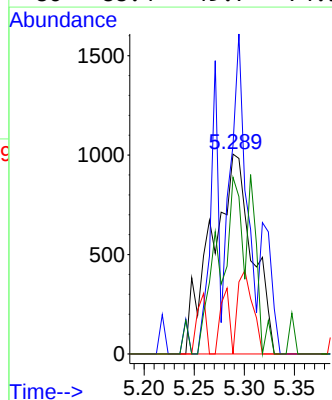
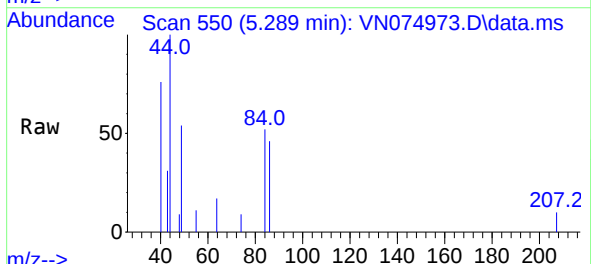
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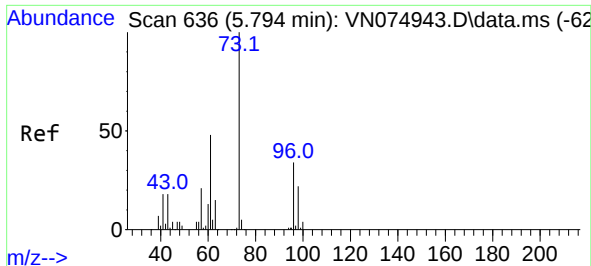
Tgt Ion: 76 Resp: 262
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 84 Resp: 2814
Ion Ratio Lower Upper
84 100
49 104.3 88.6 133.0
51 0.0 26.7 40.1#
86 88.4 49.7 74.5#

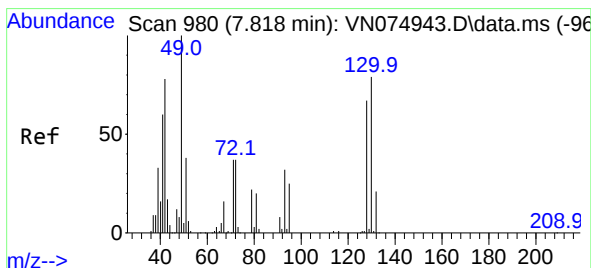
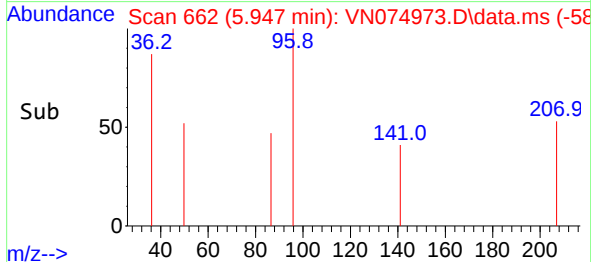
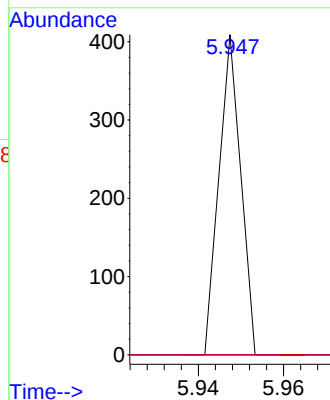
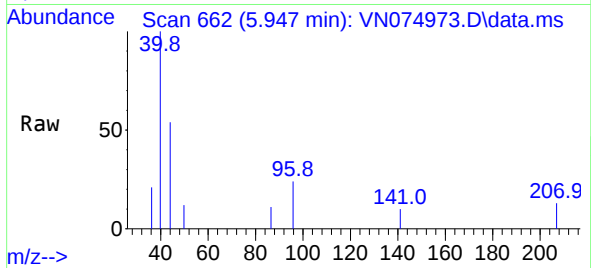




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.947 min Scan# 61
Delta R.T. 0.153 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

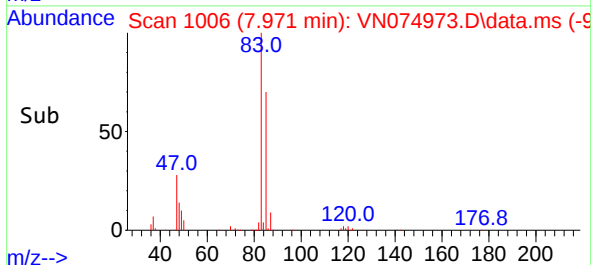
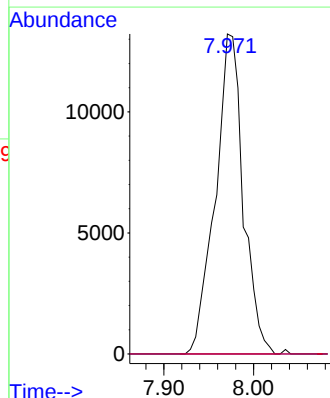
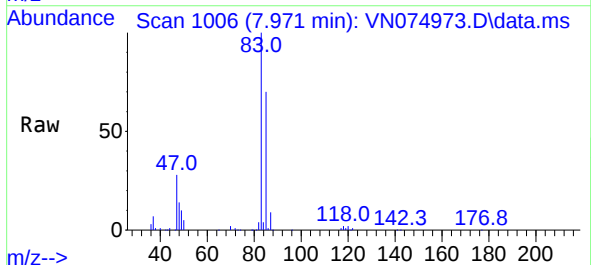
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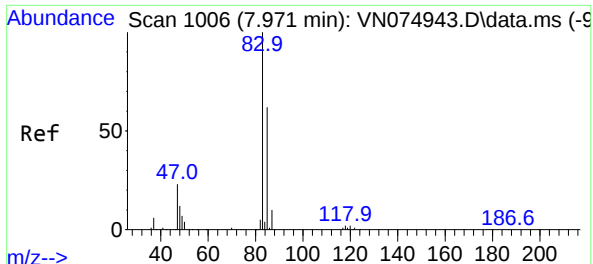
Tgt Ion: 96 Resp: 144
Ion Ratio Lower Upper
96 100
61 0.0 112.6 169.0#
98 0.0 52.4 78.6#



#28
Bromochloromethane
Concen: 2.815 ug/l
RT: 7.971 min Scan# 1006
Delta R.T. 0.153 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 49 Resp: 28581
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 64.4 96.6#





#30

Chloroform

Concen: 12.428 ug/l

RT: 7.977 min Scan# 1006

Delta R.T. 0.006 min

Lab File: VN074973.D

Acq: 21 Oct 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

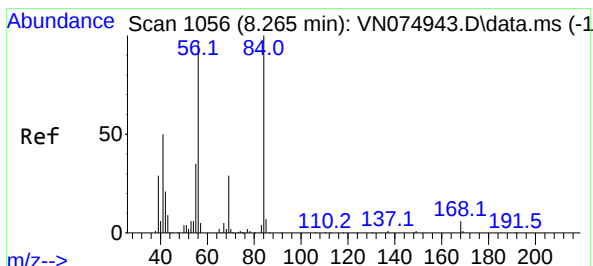
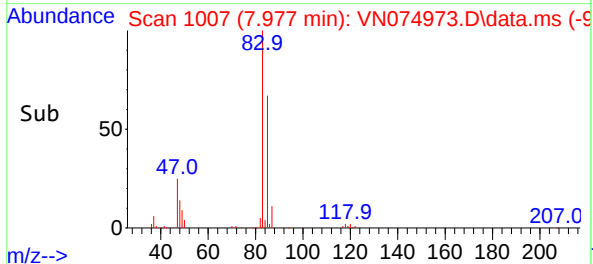
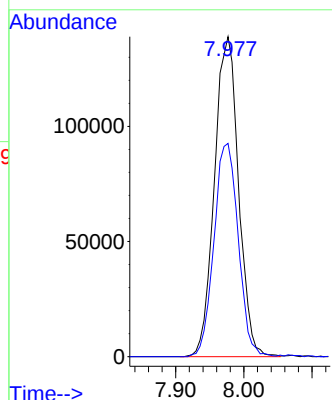
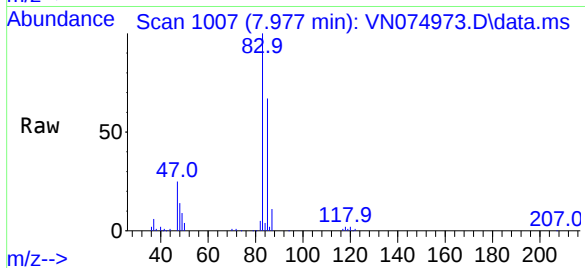
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Tgt Ion: 83 Resp: 342227

Ion Ratio Lower Upper

83 100

85 66.7 49.9 74.9



#31

Cyclohexane

Concen: 1.003 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN074973.D

Acq: 21 Oct 2022 19:49

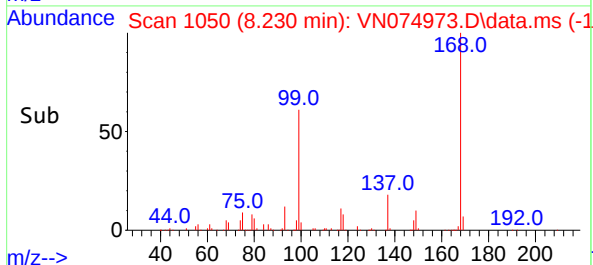
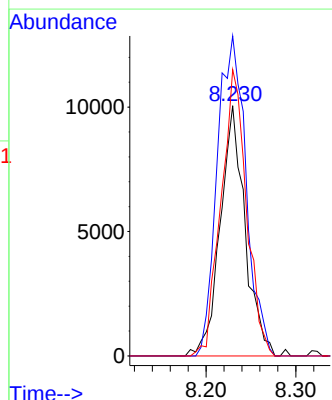
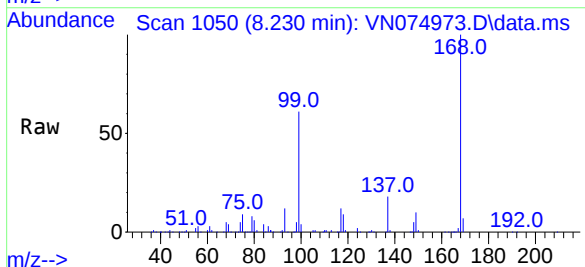
Tgt Ion: 56 Resp: 19266

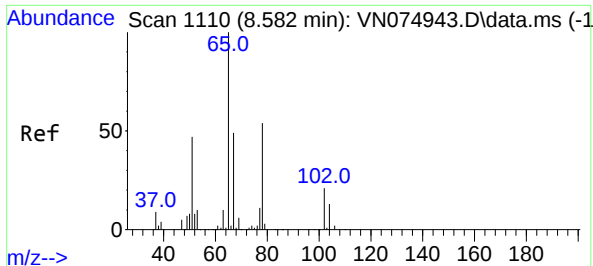
Ion Ratio Lower Upper

56 100

69 127.9 24.2 36.2#

84 119.1 82.8 124.2

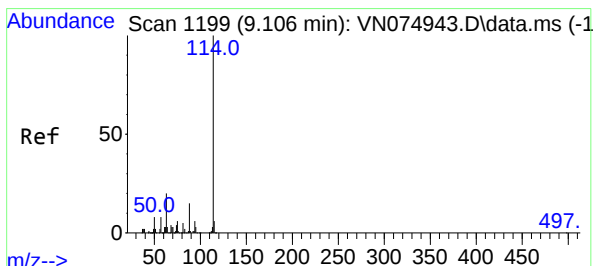
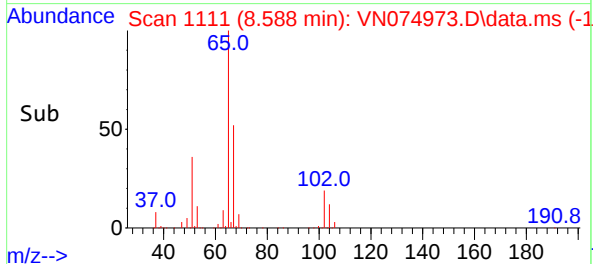
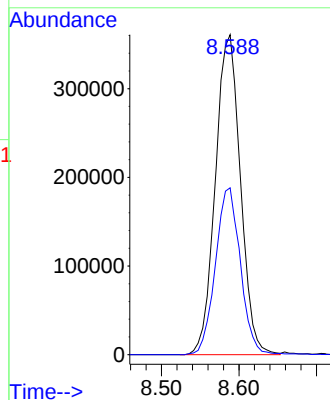
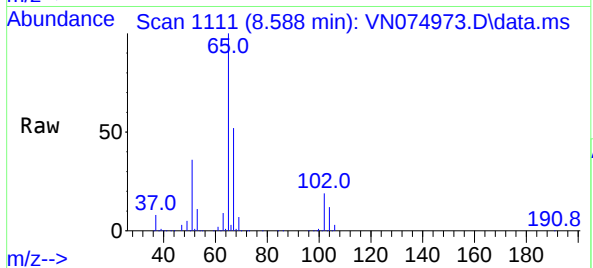




#33
1,2-Dichloroethane-d4
Concen: 43.203 ug/l
RT: 8.588 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

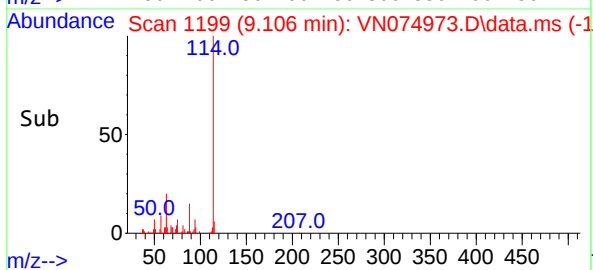
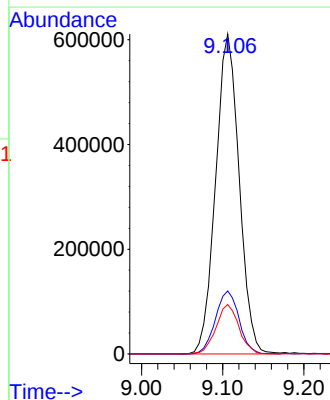
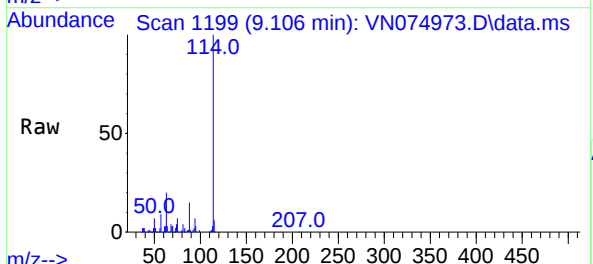
Instrument :
MSVOA_N
ClientSampleId :
MW-17

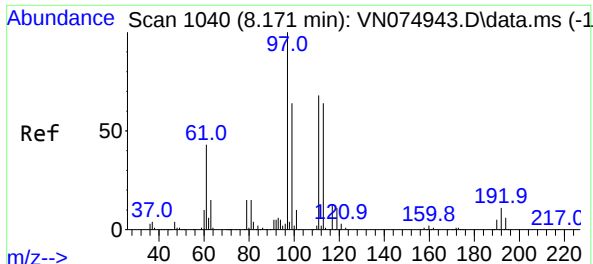
Tgt Ion: 65 Resp: 812509
Ion Ratio Lower Upper
65 100
67 52.0 0.0 102.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 114 Resp: 1230750
Ion Ratio Lower Upper
114 100
63 19.7 0.0 39.8
88 15.4 0.0 30.4

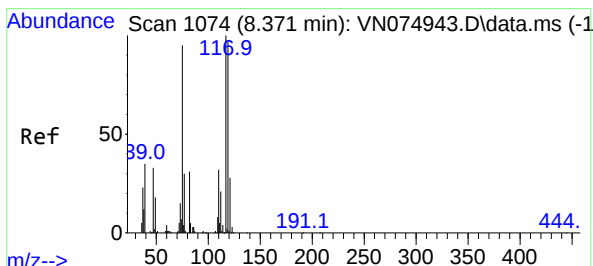
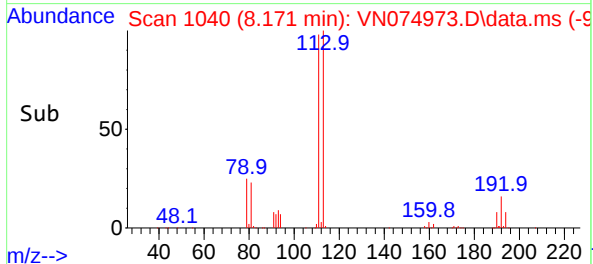
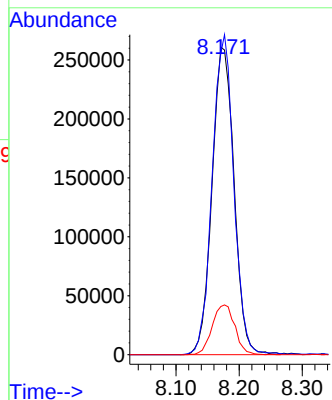
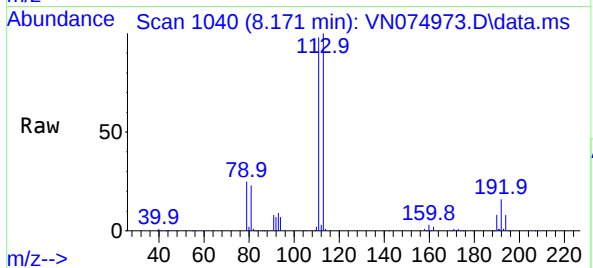




#35
Dibromofluoromethane
Concen: 43.275 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

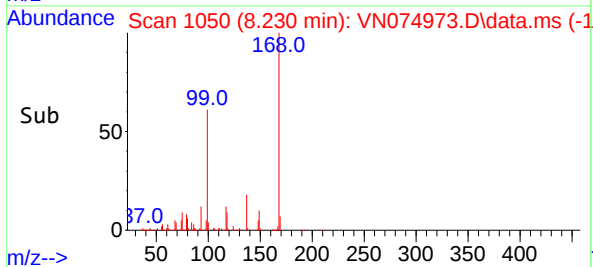
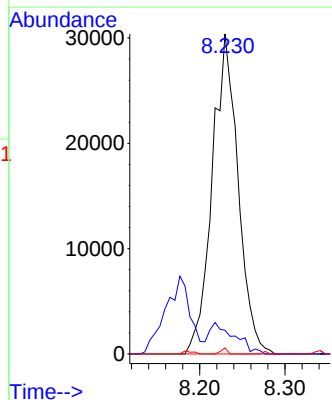
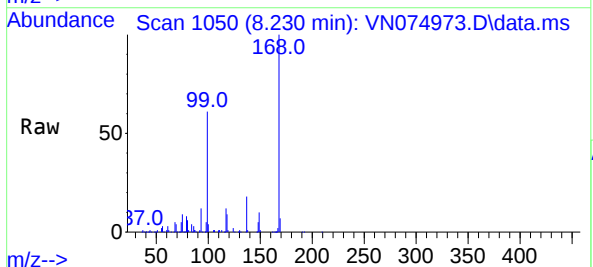
Instrument :
MSVOA_N
ClientSampleId :
MW-17

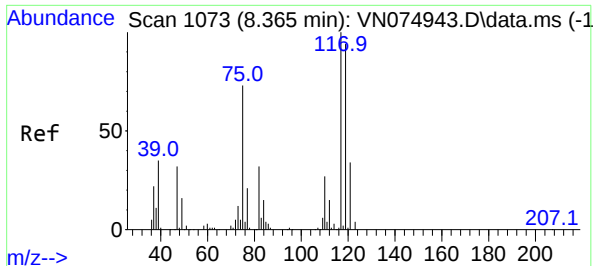
Tgt Ion:113 Resp: 633939
Ion Ratio Lower Upper
113 100
111 101.6 83.4 125.2
192 16.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 3.469 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 75 Resp: 64005
Ion Ratio Lower Upper
75 100
110 9.5 18.1 54.4#
77 0.4 25.0 37.4#

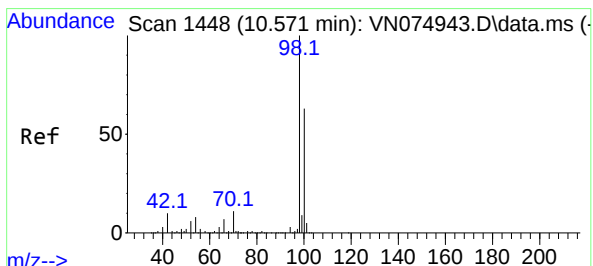
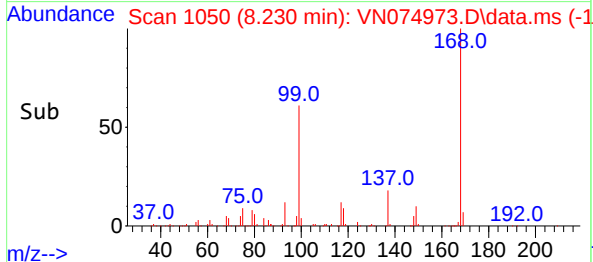
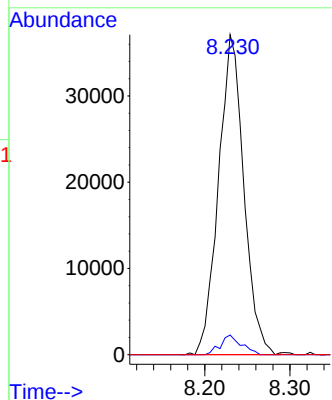
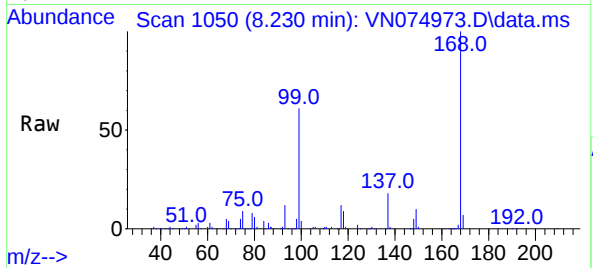




#38
Carbon Tetrachloride
Concen: 3.804 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

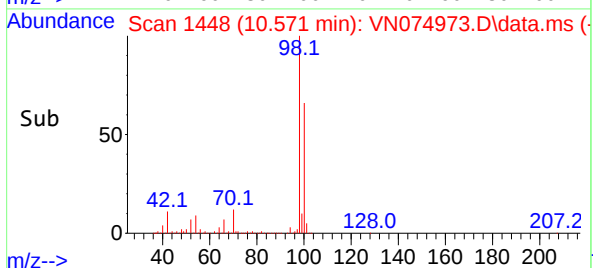
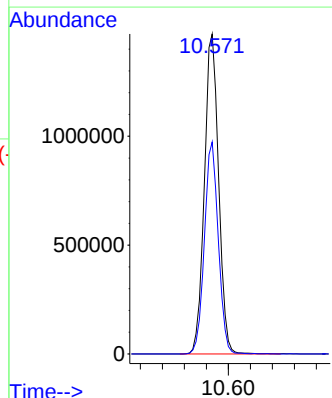
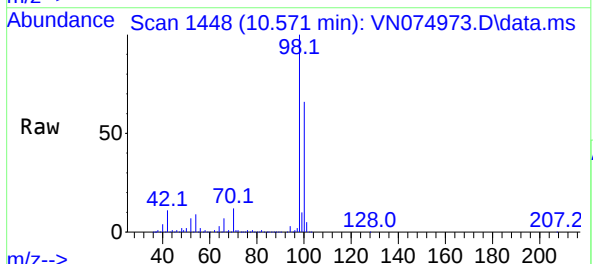
Instrument :
MSVOA_N
ClientSampleId :
MW-17

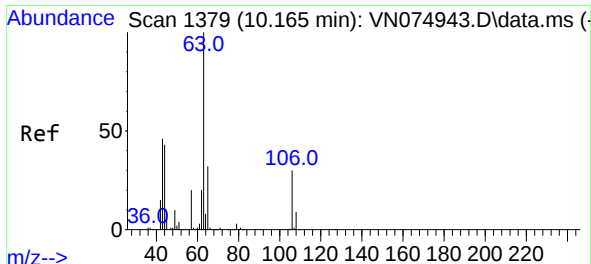
Tgt Ion:117 Resp: 76387
Ion Ratio Lower Upper
117 100
119 6.2 75.2 112.8#
121 0.0 27.0 40.6#



#50
Toluene-d8
Concen: 46.988 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 98 Resp: 2640944
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.2

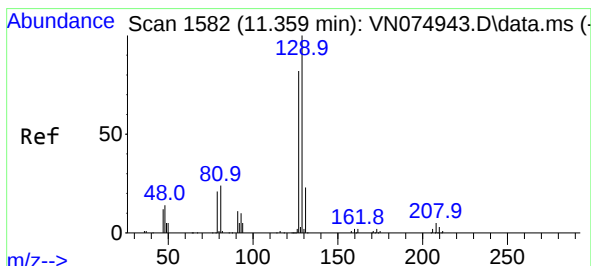
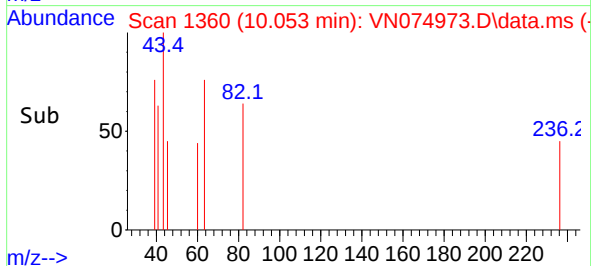
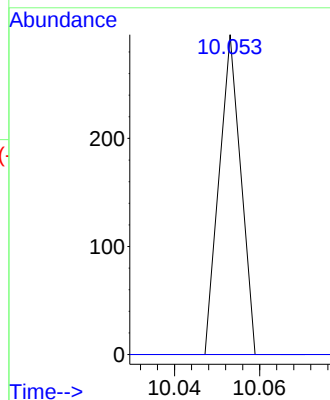
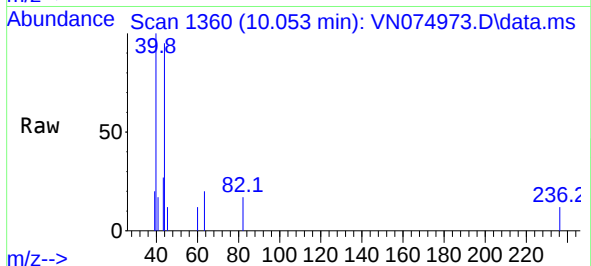




#58
2-Chloroethyl Vinyl ether
Concen: 3.619 ug/l
RT: 10.053 min Scan# 11
Delta R.T. -0.112 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

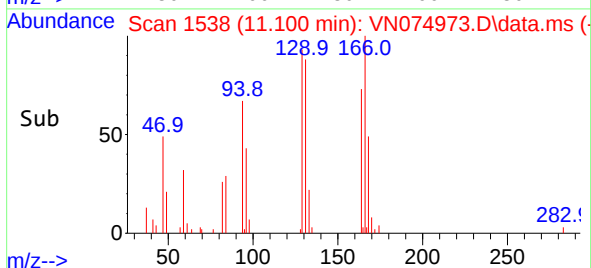
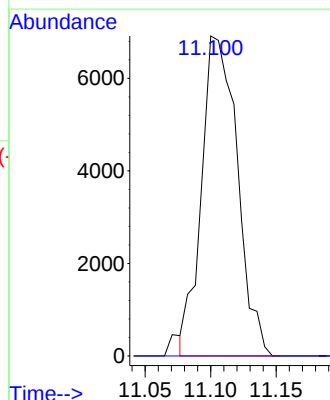
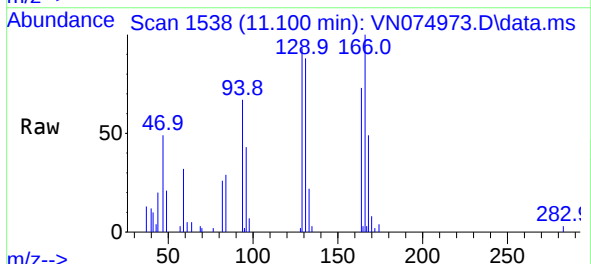
Instrument :
MSVOA_N
ClientSampleId :
MW-17

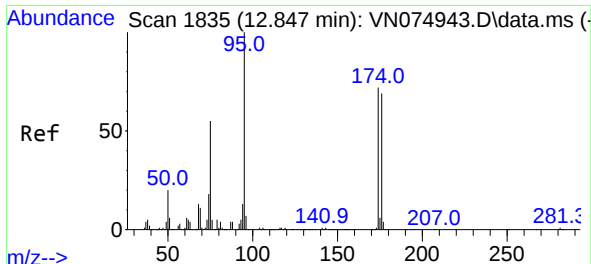
Tgt Ion: 63 Resp: 104
Ion Ratio Lower Upper
63 100
106 0.0 24.1 36.1#



#60
Dibromochloromethane
Concen: 0.805 ug/l
RT: 11.100 min Scan# 1538
Delta R.T. -0.259 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion:129 Resp: 13164
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#

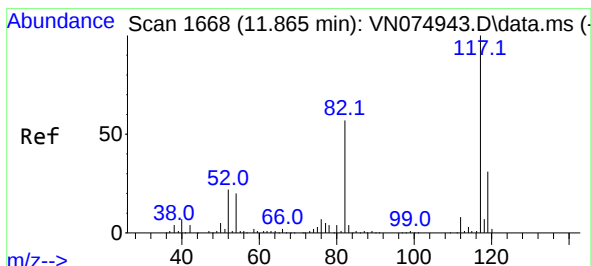
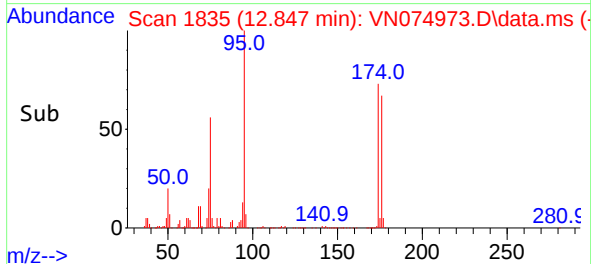
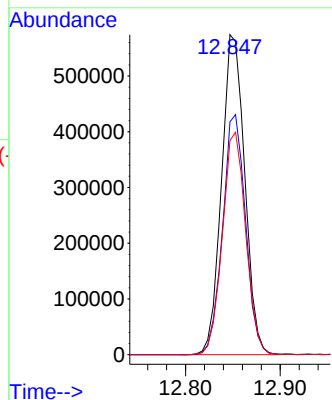
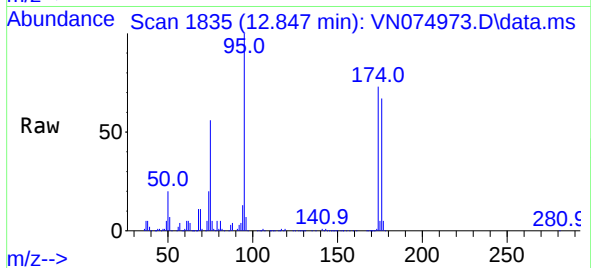




#62
4-Bromofluorobenzene
Concen: 49.190 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

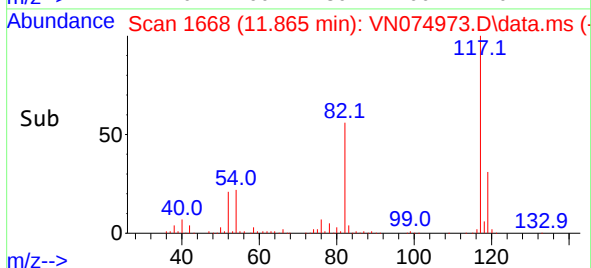
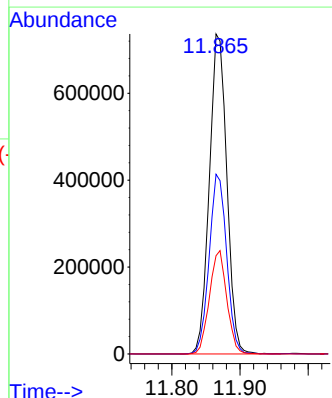
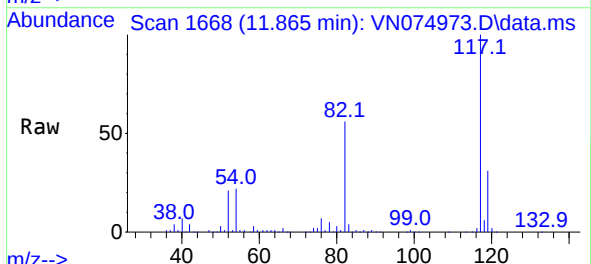
Instrument :
MSVOA_N
ClientSampleId :
MW-17

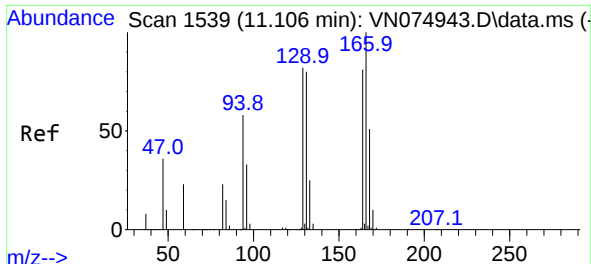
Tgt Ion: 95 Resp: 975221
Ion Ratio Lower Upper
95 100
174 74.3 0.0 143.0
176 69.8 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 117 Resp: 1315507
Ion Ratio Lower Upper
117 100
82 56.1 45.6 68.4
119 30.7 25.1 37.7

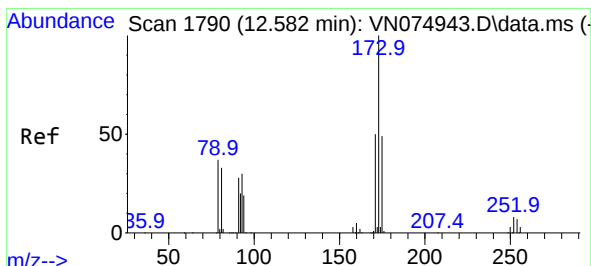
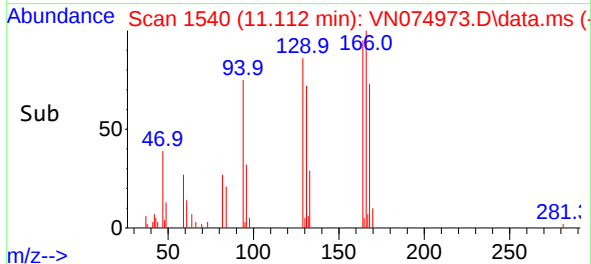
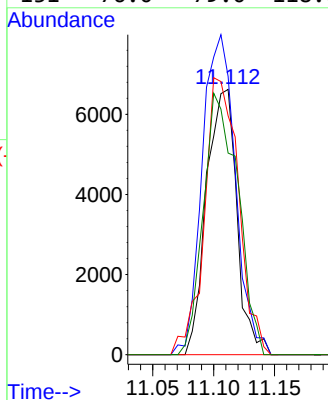
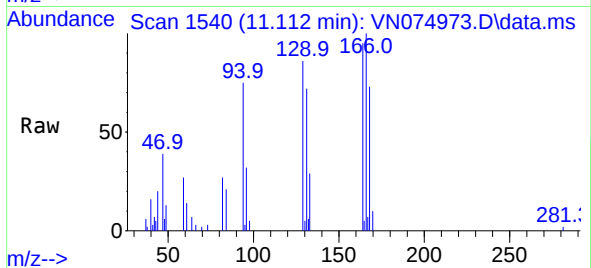




#64
Tetrachloroethene
Concen: 1.072 ug/l
RT: 11.112 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

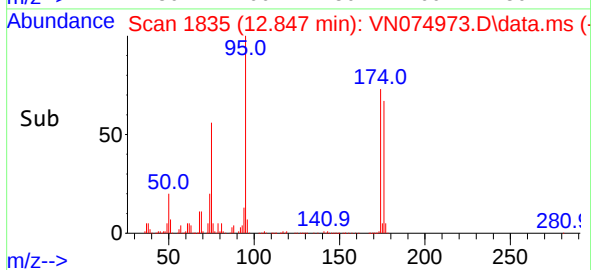
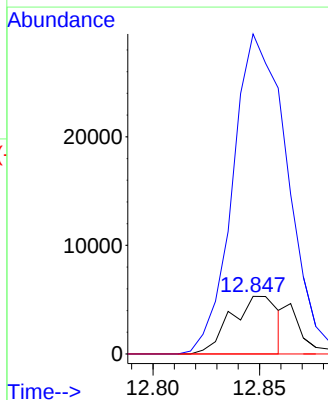
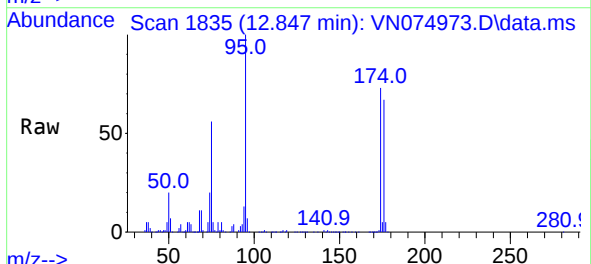
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MSVOA_N
ClientSampleId :
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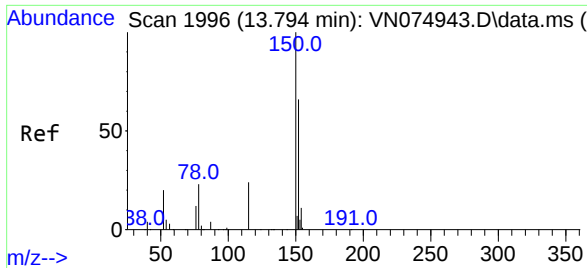
Tgt Ion:	164	Resp:	11534
Ion	Ratio	Lower	Upper
164	100		
166	104.9	98.6	148.0
129	90.0	81.2	121.8
131	76.0	79.0	118.6



#71
Bromoform
Concen: 0.722 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion:	173	Resp:	8169
Ion	Ratio	Lower	Upper
173	100		
175	530.9	24.8	74.3
254	0.0	0.1	0.1

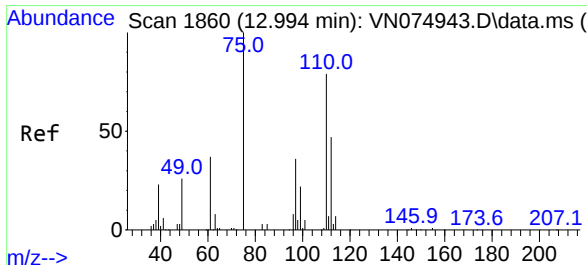
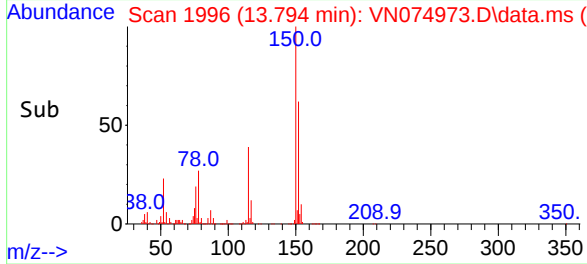
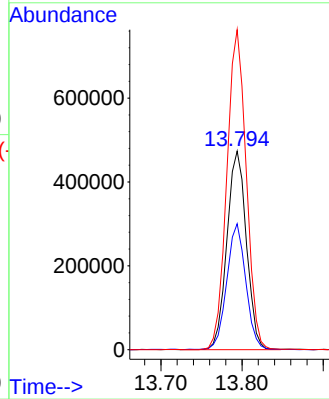
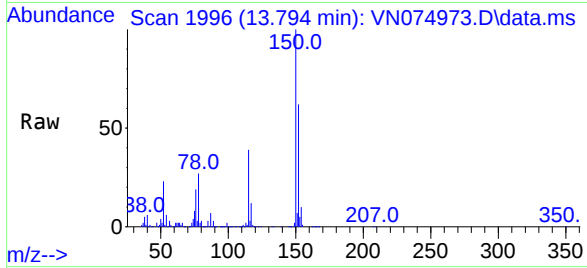




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

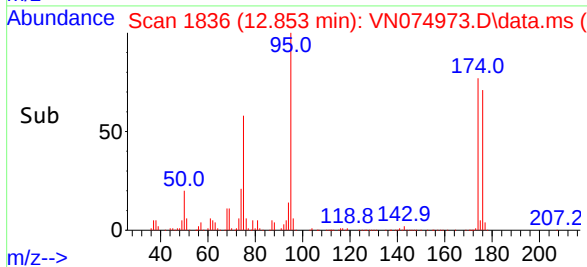
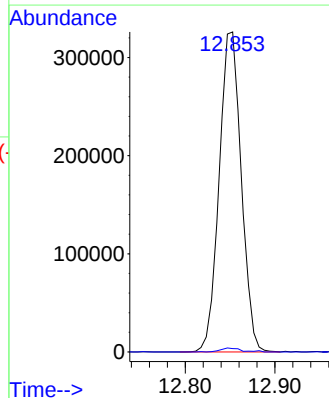
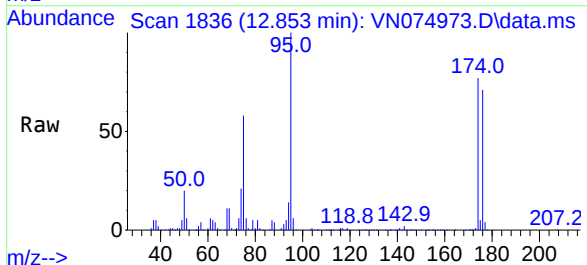
Instrument :
MSVOA_N
ClientSampleId :
MW-17

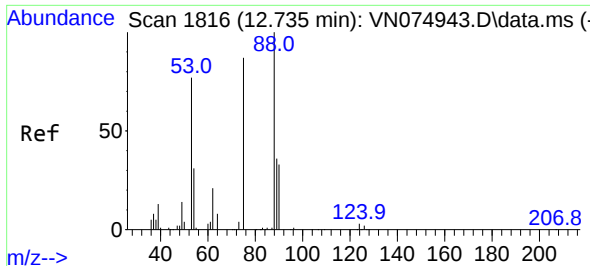
Tgt Ion:152 Resp: 790569
Ion Ratio Lower Upper
152 100
115 62.1 31.3 93.8
150 160.0 0.0 349.6



#76
1,2,3-Trichloropropane
Concen: 25.994 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 75 Resp: 557287
Ion Ratio Lower Upper
75 100
77 1.2 81.0 243.0#

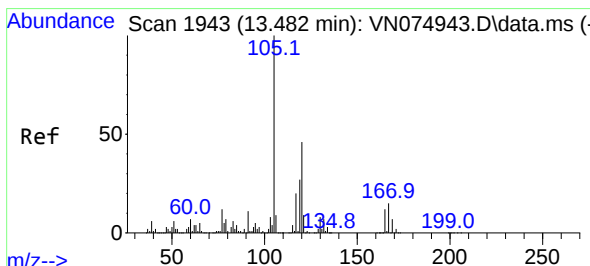
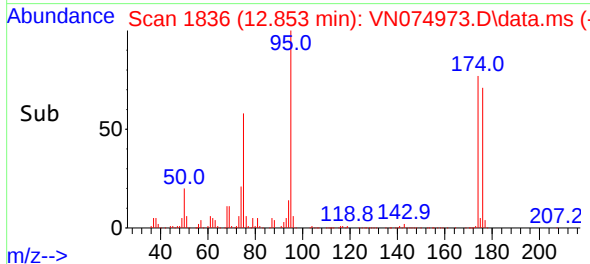
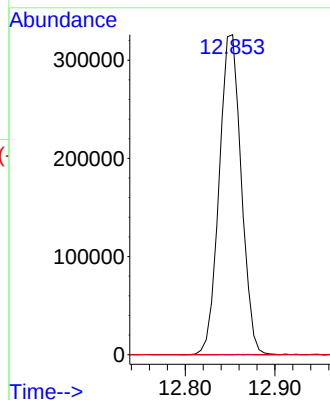
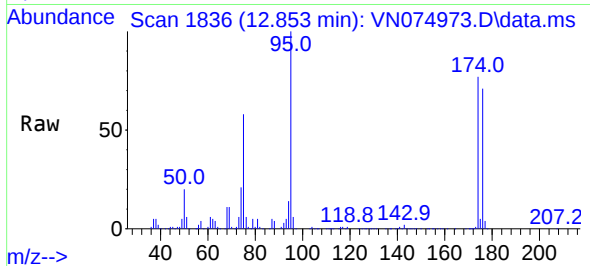




#81
trans-1,4-Dichloro-2-butene
Concen: 83.341 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

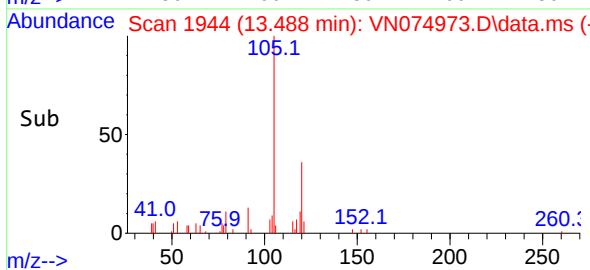
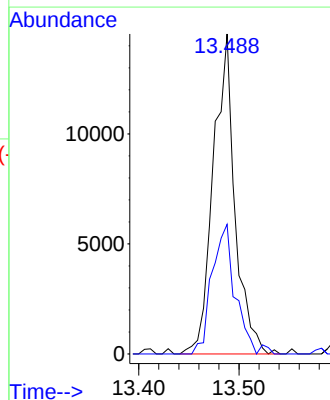
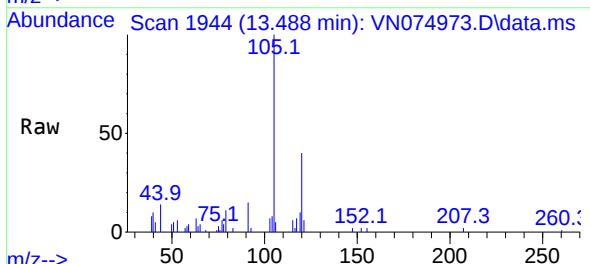
Instrument :
MSVOA_N
ClientSampleId :
MW-17

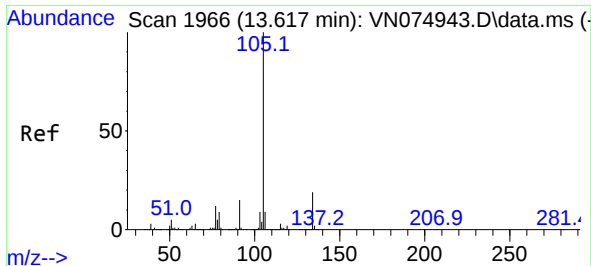
Tgt Ion: 75 Resp: 557287
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 0.389 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN074973.D
Acq: 21 Oct 2022 19:49

Tgt Ion: 105 Resp: 21913
Ion Ratio Lower Upper
105 100
120 43.9 22.9 68.5

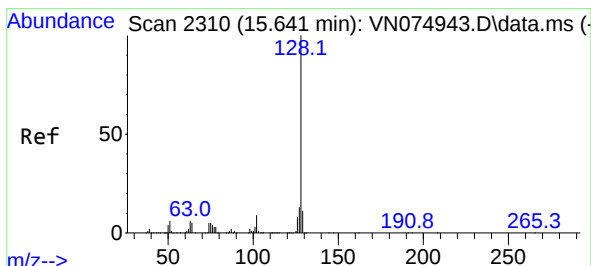
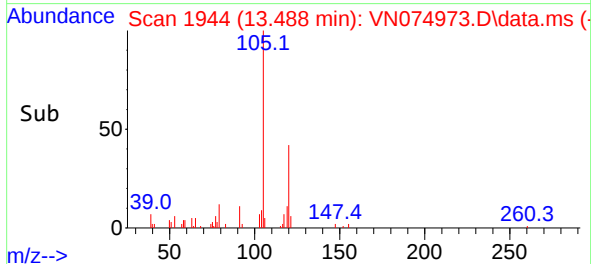
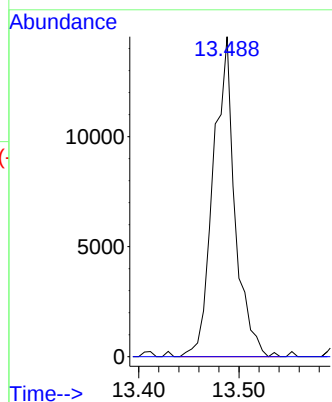
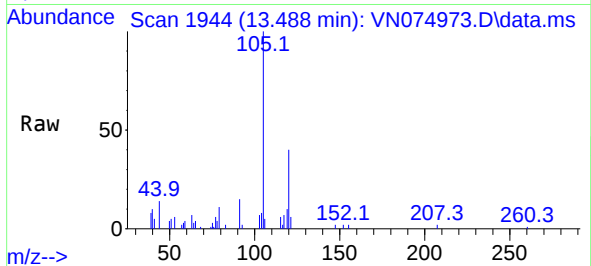




#85
 sec-Butylbenzene
 Concen: 0.316 ug/l
 RT: 13.488 min Scan# 1944
 Delta R.T. -0.129 min
 Lab File: VN074973.D
 Acq: 21 Oct 2022 19:49

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

Tgt Ion:105 Resp: 21913
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#



#95
 Naphthalene
 Concen: 4.480 ug/l
 RT: 15.641 min Scan# 2310
 Delta R.T. 0.000 min
 Lab File: VN074973.D
 Acq: 21 Oct 2022 19:49

Tgt Ion:128 Resp: 215174
 Ion Ratio Lower Upper
 128 100
 127 13.7 10.4 15.6
 129 10.4 8.6 12.8

