

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102122\
 Data File : VN074971.D
 Acq On : 21 Oct 2022 19:00
 Operator : JC\MD
 Sample : N5222-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

Quant Time: Oct 22 02:56:00 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)

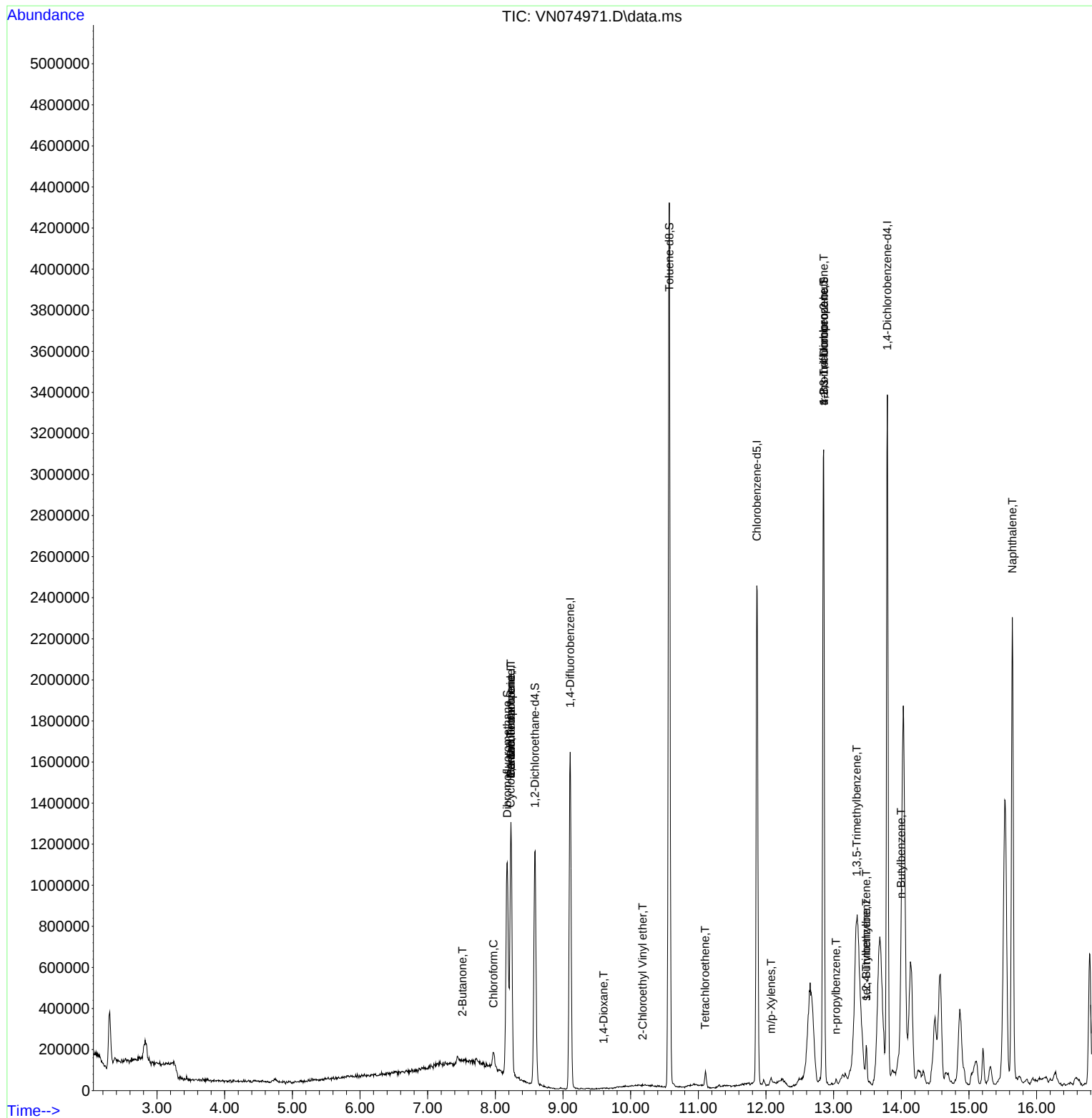
Internal Standards						
1) Pentafluorobenzene	8.230	168	871602	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1468862	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1455395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	860177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	938517	40.527	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	81.060%
35) Dibromofluoromethane	8.177	113	763108	43.648	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	87.300%
50) Toluene-d8	10.571	98	2999243	44.712	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	89.420%
62) 4-Bromofluorobenzene	12.853	95	1073316	45.362	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.720%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	3233	Below Cal	#	39
4) Vinyl Chloride	2.524	62	1265	Below Cal	#	44
5) Bromomethane	2.930	94	675	Below Cal	#	33
6) Chloroethane	3.030	64	1973	Below Cal	#	60
7) Trichlorofluoromethane	3.518	101	77	Below Cal	#	18
9) 1,1,2-Trichlorotrifluo...	4.395	101	233	Below Cal	#	43
12) 1,1-Dichloroethene	4.265	96	75	Below Cal	#	28
13) Acrolein	4.201	56	617	Below Cal	#	64
16) Acetone	4.459	43	10986	Below Cal	#	56
17) Carbon Disulfide	4.730	76	1419	Below Cal	#	74
20) Methylene Chloride	5.306	84	3071	Below Cal	#	43
21) trans-1,2-Dichloroethene	5.824	96	155	Below Cal	#	21
25) 2-Butanone	7.512	43	2929	0.208 ug/l	#	45
30) Chloroform	7.971	83	77297	2.280 ug/l	#	99
31) Cyclohexane	8.224	56	19447	0.822 ug/l	#	51
36) 1,1-Dichloropropene	8.230	75	80424	3.653 ug/l	#	50
38) Carbon Tetrachloride	8.230	117	97527	4.069 ug/l	#	17
49) 1,4-Dioxane	9.600	88	126	0.248 ug/l	#	86
58) 2-Chloroethyl Vinyl ether	10.177	63	786	3.670 ug/l	#	70
64) Tetrachloroethene	11.100	164	15480	1.301 ug/l	#	81
68) m/p-Xylenes	12.076	106	7289	0.239 ug/l	#	92
76) 1,2,3-Trichloropropane	12.853	75	595432	25.525 ug/l	#	1
78) n-propylbenzene	13.035	91	22679	0.276 ug/l	#	99
80) 1,3,5-Trimethylbenzene	13.341	105	25006	0.412 ug/l	#	76
81) trans-1,4-Dichloro-2-b...	12.853	75	595432	81.840 ug/l	#	10
84) 1,2,4-Trimethylbenzene	13.482	105	98354	1.605 ug/l	#	93
85) sec-Butylbenzene	13.482	105	98354	1.304 ug/l	#	58
89) n-Butylbenzene	13.994	91	37750	0.712 ug/l	#	40
95) Naphthalene	15.641	128	2137791	40.907 ug/l	#	100

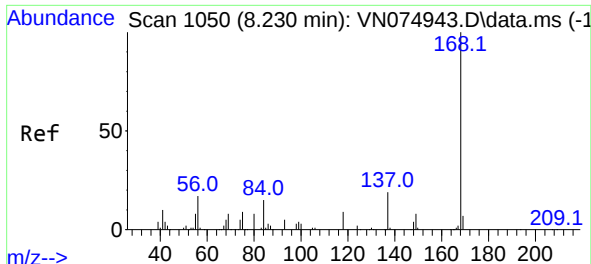
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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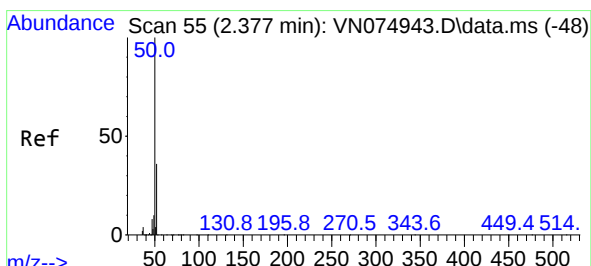
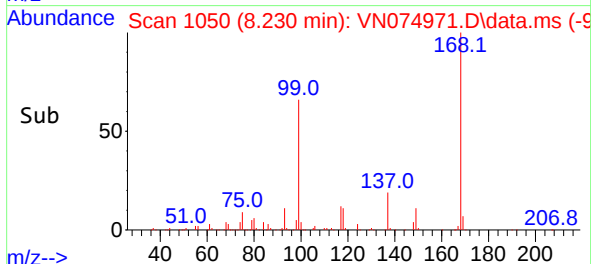
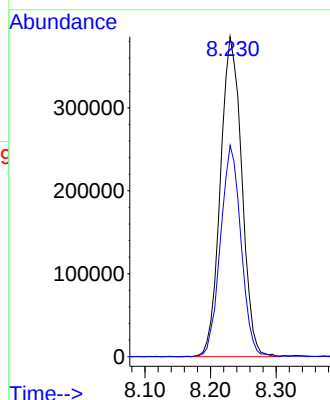
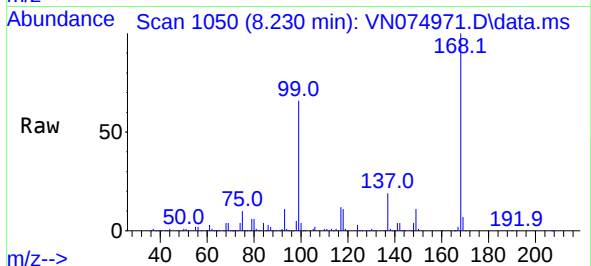




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

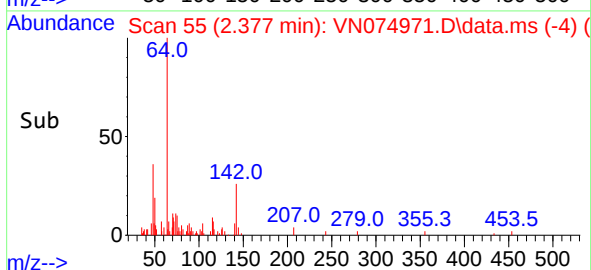
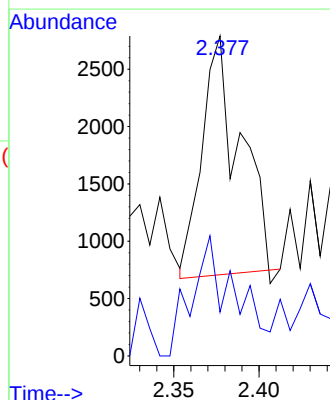
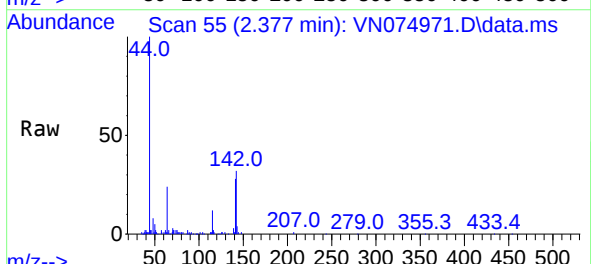
Instrument :
MSVOA_N
ClientSampleId :
MW-15

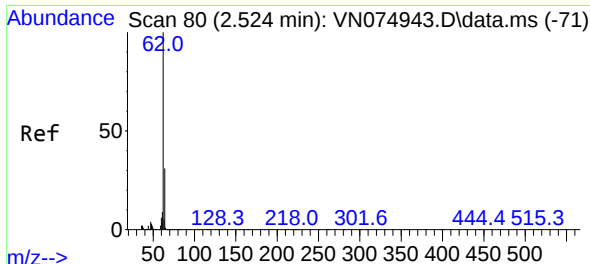
Tgt Ion:168 Resp: 871602
Ion Ratio Lower Upper
168 100
99 66.0 52.2 78.4



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 55
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 50 Resp: 3233
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#

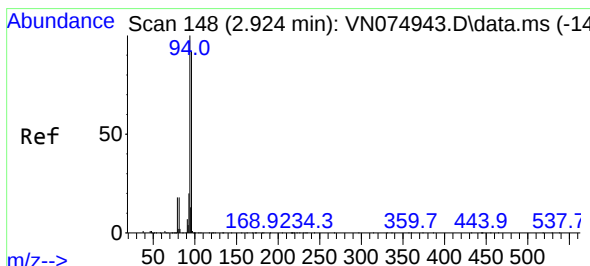
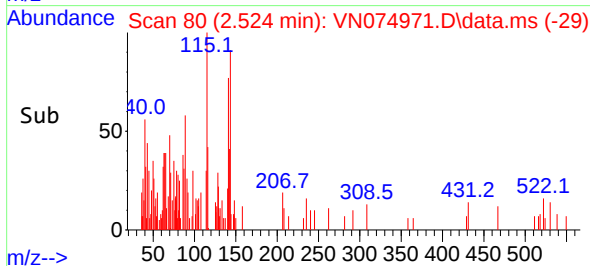
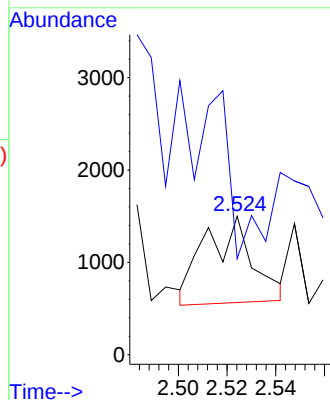
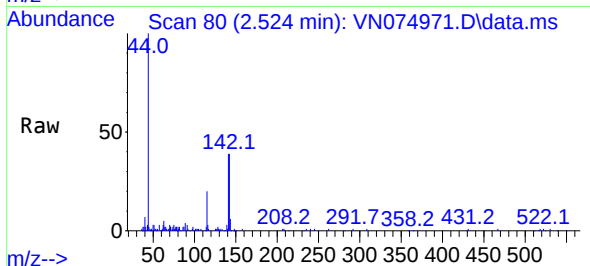




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.524 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VN074971.D
 Acq: 21 Oct 2022 19:00

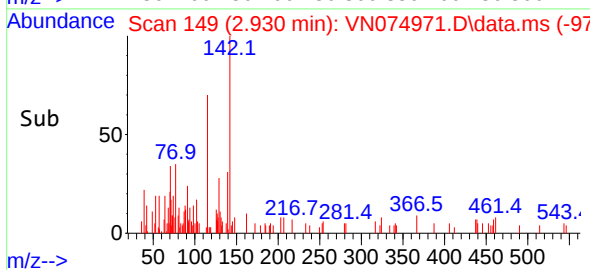
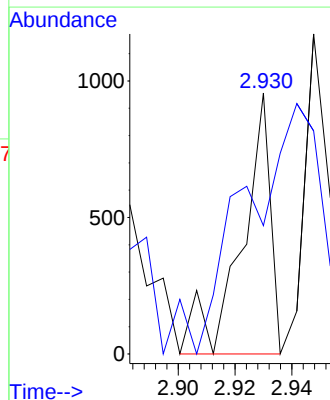
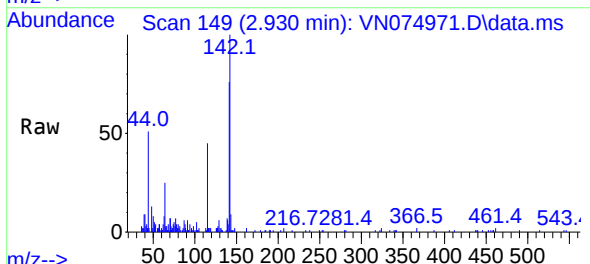
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

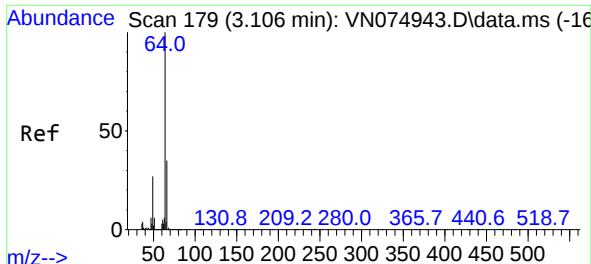
Tgt Ion: 62 Resp: 1265
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.5 36.7#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.930 min Scan# 149
 Delta R.T. 0.006 min
 Lab File: VN074971.D
 Acq: 21 Oct 2022 19:00

Tgt Ion: 94 Resp: 675
 Ion Ratio Lower Upper
 94 100
 96 28.2 73.5 110.3#

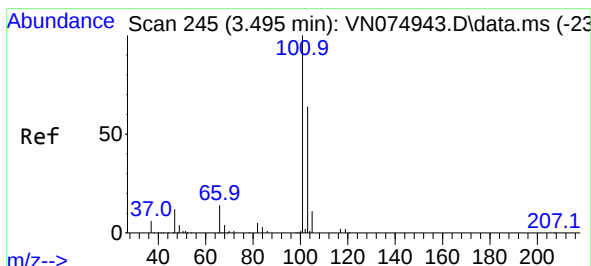
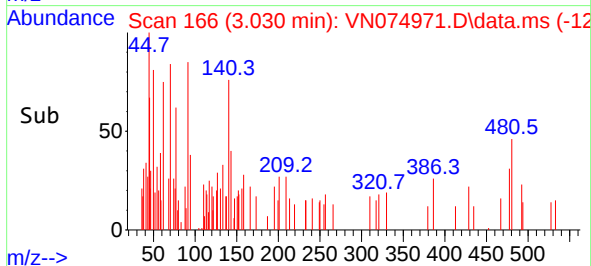
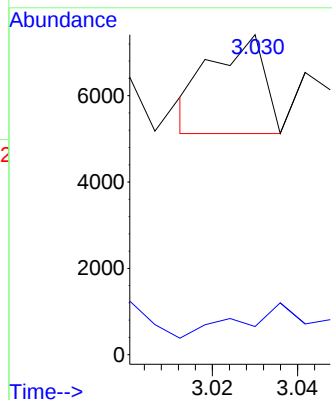
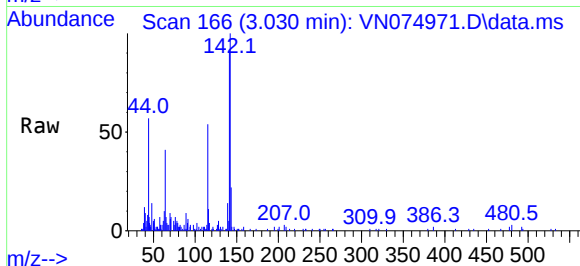




#6
Chloroethane
Concen: Below Cal
RT: 3.030 min Scan# 11
Delta R.T. -0.076 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

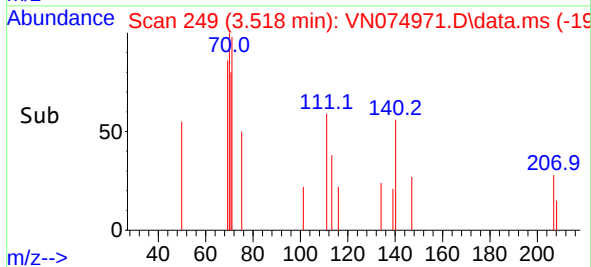
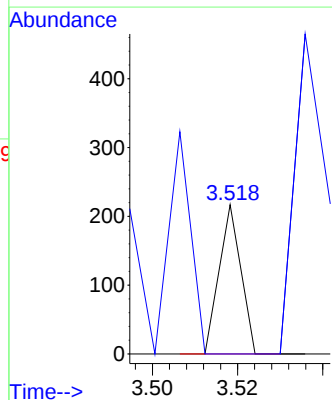
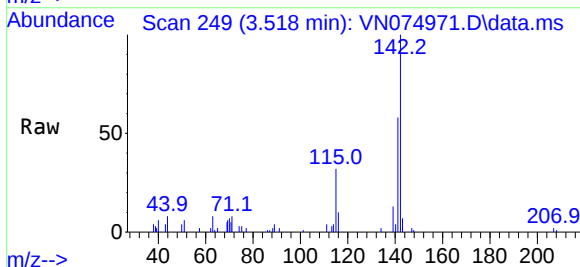
Instrument :
MSVOA_N
ClientSampleId :
MW-15

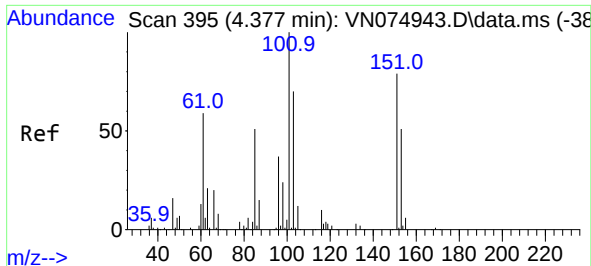
Tgt Ion: 64 Resp: 1973
Ion Ratio Lower Upper
64 100
66 11.8 27.9 41.9#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.518 min Scan# 249
Delta R.T. 0.023 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion:101 Resp: 77
Ion Ratio Lower Upper
101 100
103 0.0 51.5 77.3#

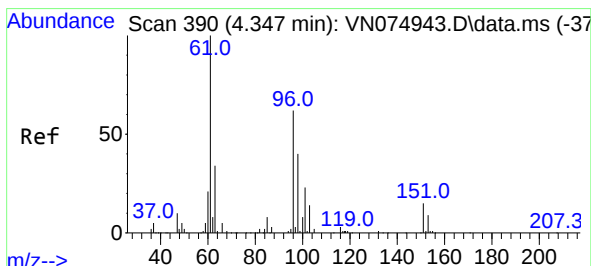
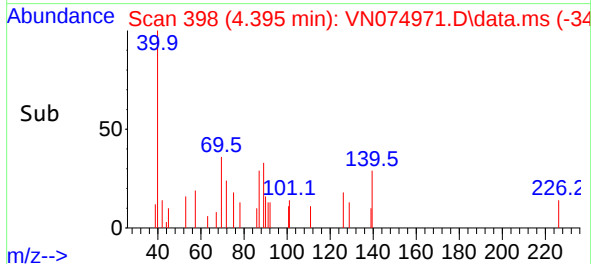
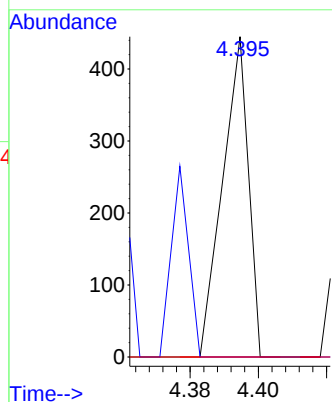
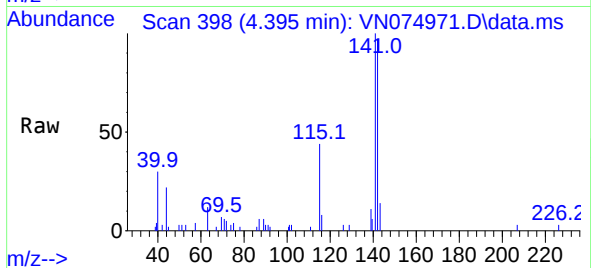




#9
1,1,2-Trichlorotrifluoroethane
Concen: Below Cal
RT: 4.395 min Scan# 395
Delta R.T. 0.018 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

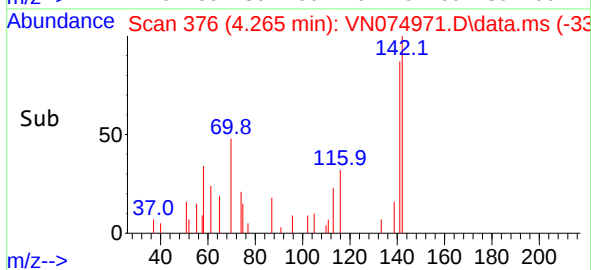
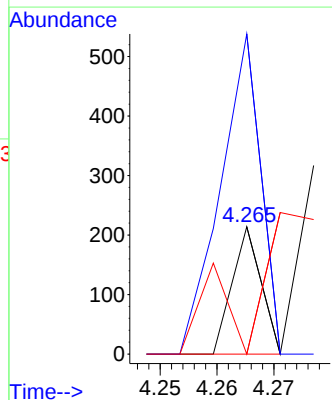
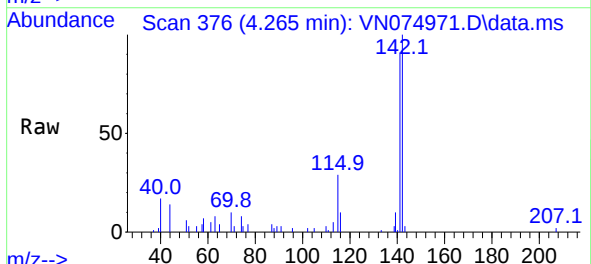
Instrument :
MSVOA_N
ClientSampleId :
MW-15

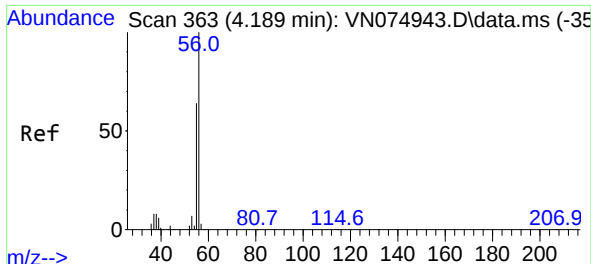
Tgt Ion:101 Resp: 233
Ion Ratio Lower Upper
101 100
85 40.3 37.8 56.8
151 0.0 58.5 87.7#



#12
1,1-Dichloroethene
Concen: Below Cal
RT: 4.265 min Scan# 376
Delta R.T. -0.082 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 96 Resp: 75
Ion Ratio Lower Upper
96 100
61 251.4 128.9 193.3#
98 0.0 51.8 77.8#

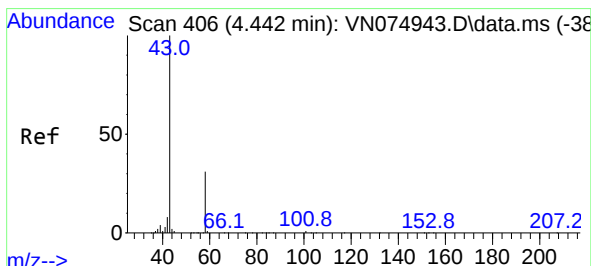
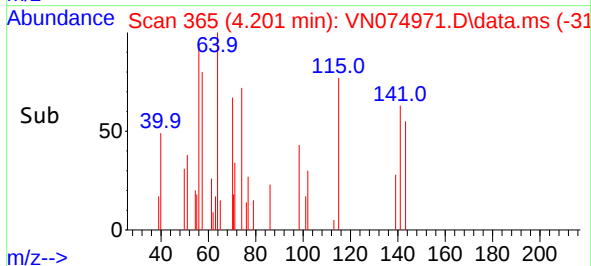
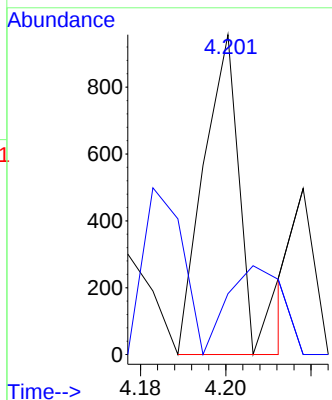
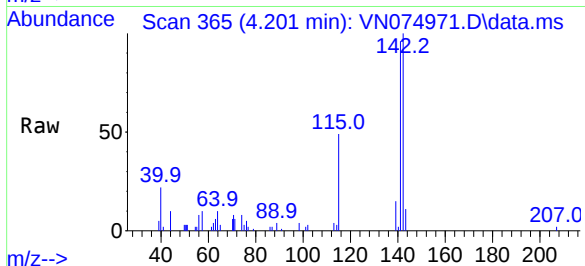




#13
Acrolein
Concen: Below Cal
RT: 4.201 min Scan# 301
Delta R.T. 0.012 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

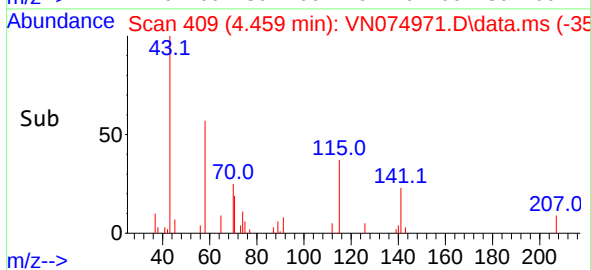
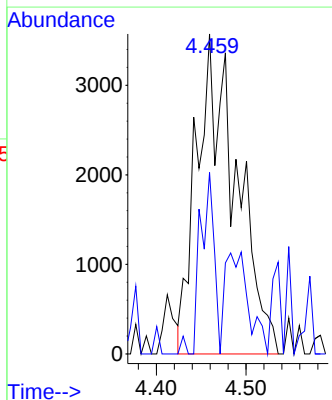
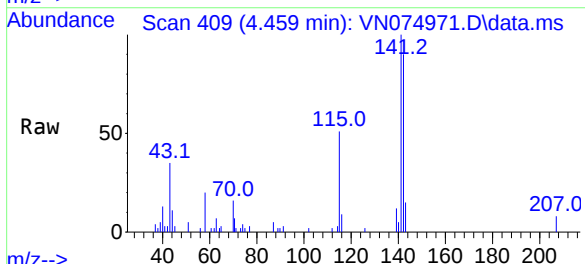
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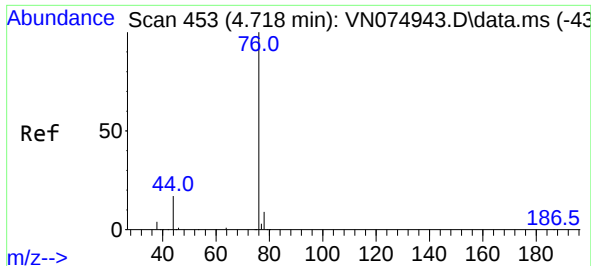
Tgt Ion: 56 Resp: 617
Ion Ratio Lower Upper
56 100
55 38.6 53.7 80.5#



#16
Acetone
Concen: Below Cal
RT: 4.459 min Scan# 409
Delta R.T. 0.017 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 43 Resp: 10986
Ion Ratio Lower Upper
43 100
58 56.7 25.7 38.5#

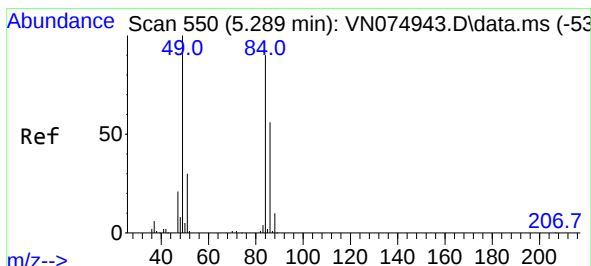
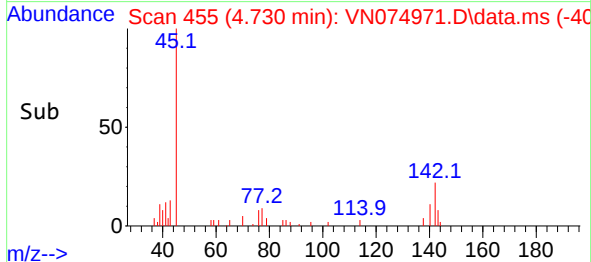
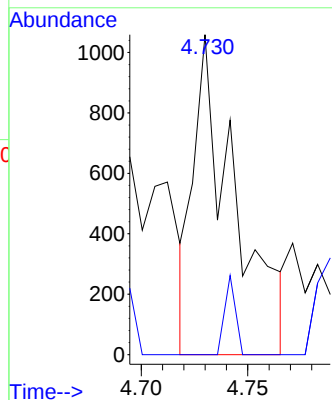
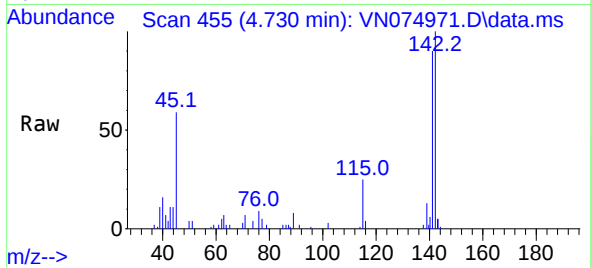




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.730 min Scan# 417
Delta R.T. 0.012 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

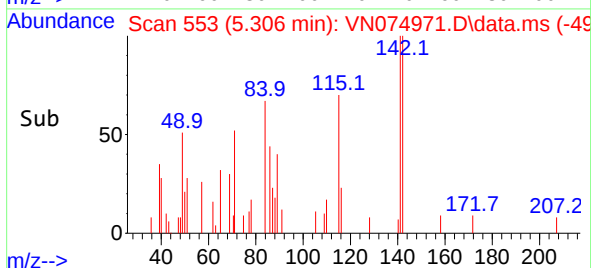
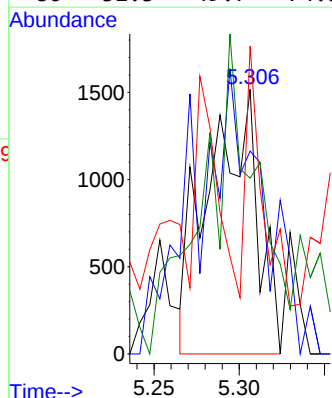
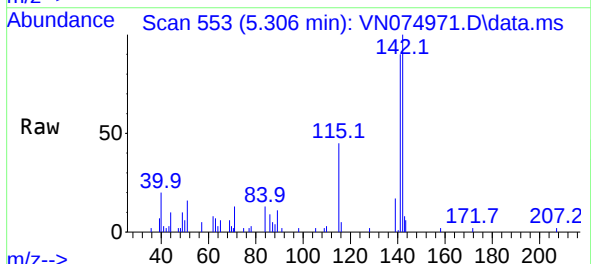
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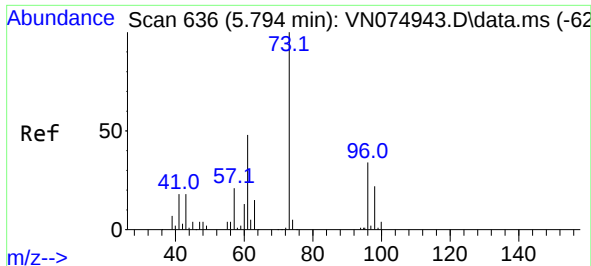
Tgt Ion: 76 Resp: 1419
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.306 min Scan# 553
Delta R.T. 0.017 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 84 Resp: 3071
Ion Ratio Lower Upper
84 100
49 40.4 88.6 133.0#
51 69.0 26.7 40.1#
86 32.3 49.7 74.5#

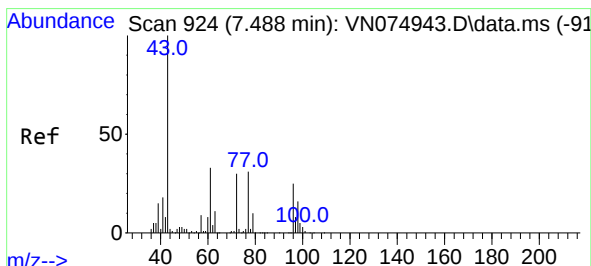
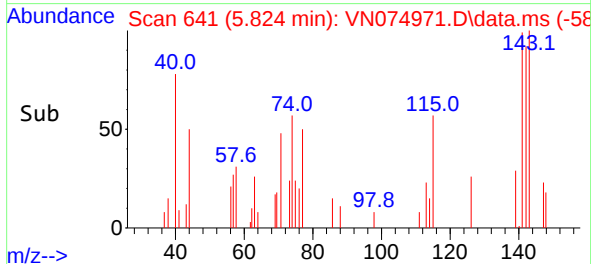
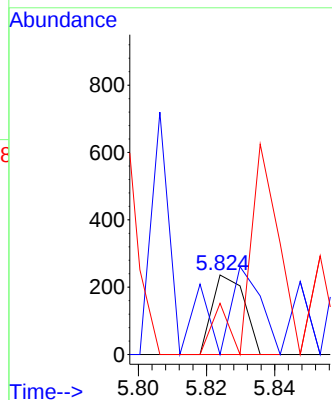
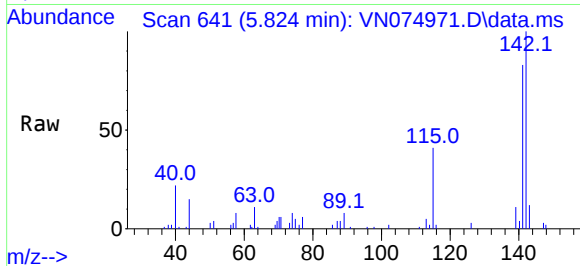




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.824 min Scan# 641
Delta R.T. 0.030 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

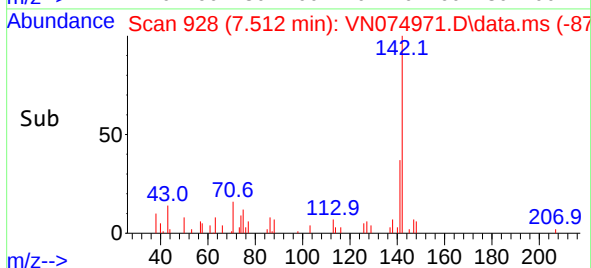
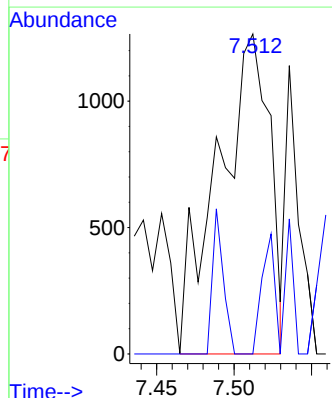
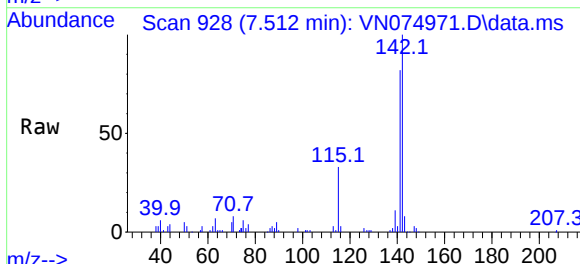
Instrument :
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ClientSampleId :
MW-15

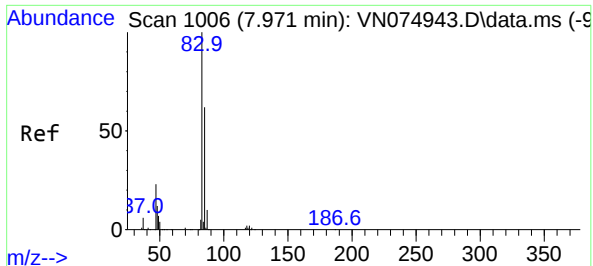
Tgt Ion: 96 Resp: 155
Ion Ratio Lower Upper
96 100
61 0.0 112.6 169.0#
98 64.4 52.4 78.6



#25
2-Butanone
Concen: 0.208 ug/l
RT: 7.512 min Scan# 928
Delta R.T. 0.024 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 43 Resp: 2929
Ion Ratio Lower Upper
43 100
72 0.0 23.9 35.9#

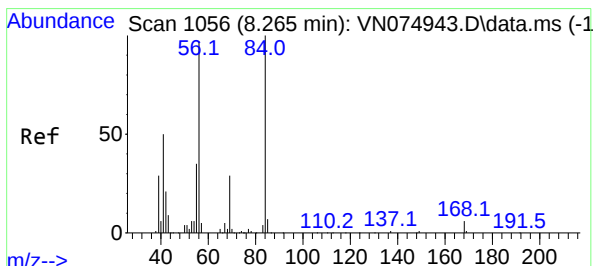
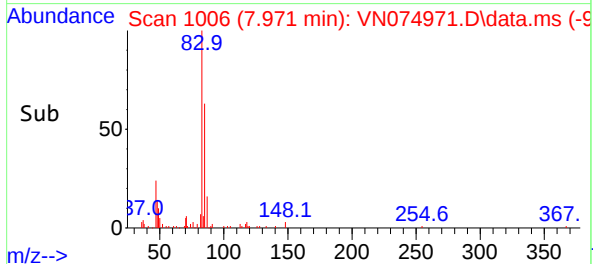
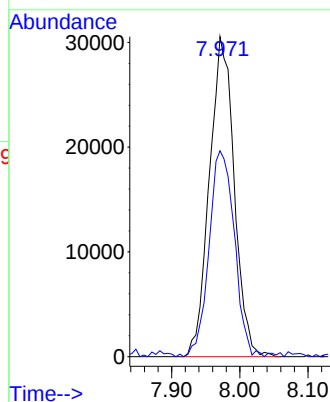
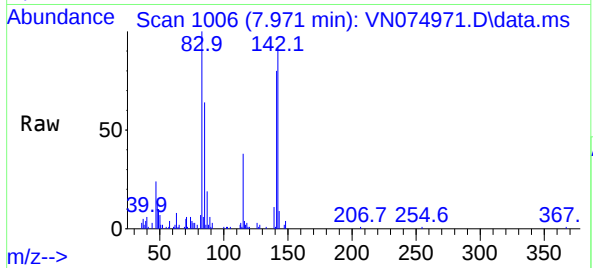




#30
Chloroform
Concen: 2.280 ug/l
RT: 7.971 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

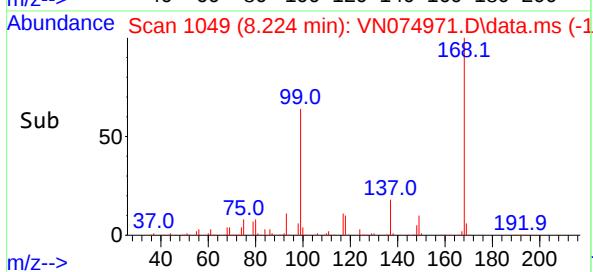
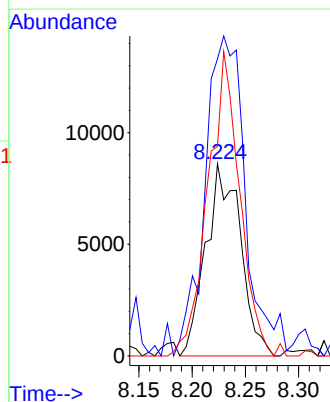
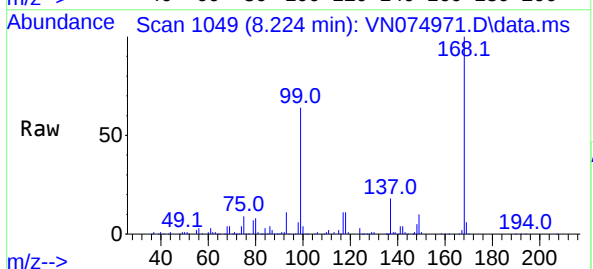
Instrument :
MSVOA_N
ClientSampleId :
MW-15

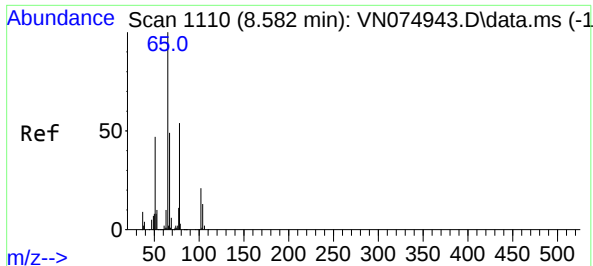
Tgt Ion: 83 Resp: 77297
Ion Ratio Lower Upper
83 100
85 63.6 49.9 74.9



#31
Cyclohexane
Concen: 0.822 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.041 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 56 Resp: 19447
Ion Ratio Lower Upper
56 100
69 146.1 24.2 36.2#
84 102.6 82.8 124.2

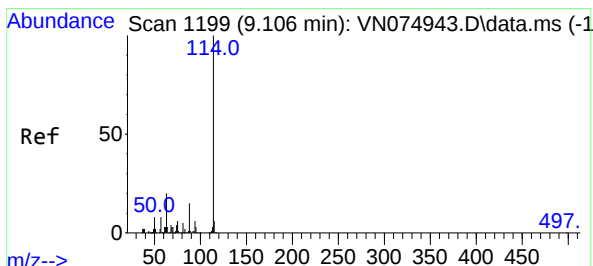
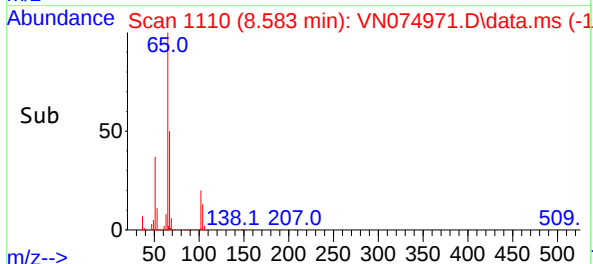
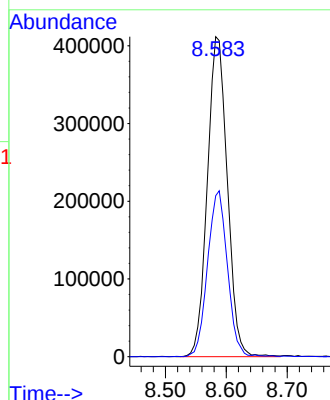
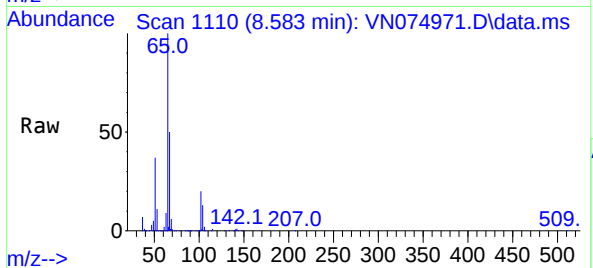




#33
1,2-Dichloroethane-d4
Concen: 40.527 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

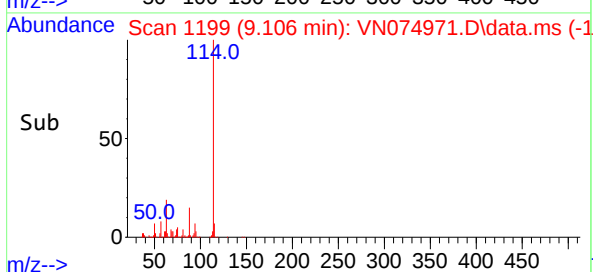
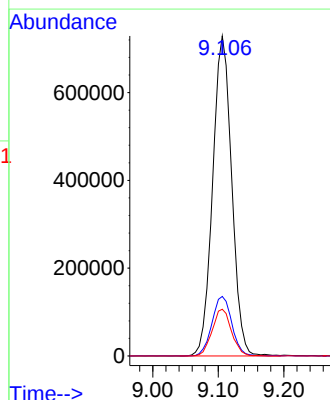
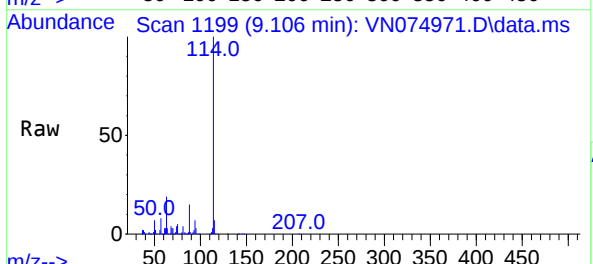
Instrument :
MSVOA_N
ClientSampleId :
MW-15

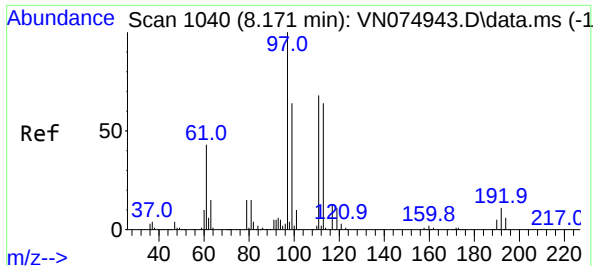
Tgt Ion: 65 Resp: 938517
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 114 Resp: 1468862
Ion Ratio Lower Upper
114 100
63 18.6 0.0 39.8
88 14.6 0.0 30.4

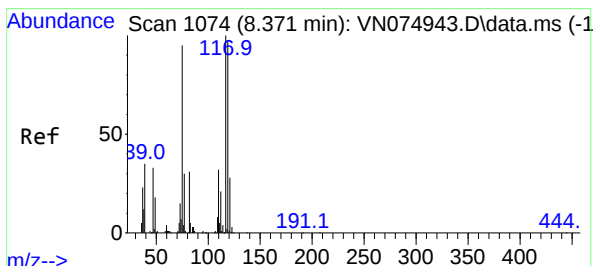
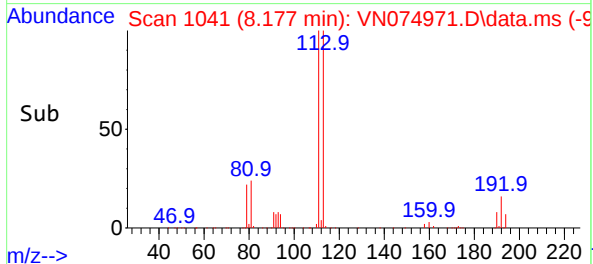
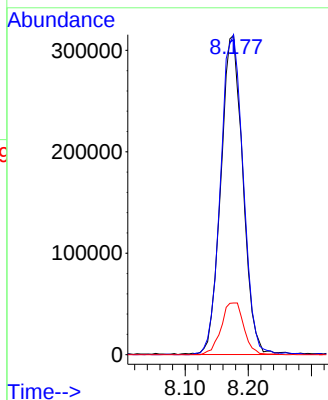
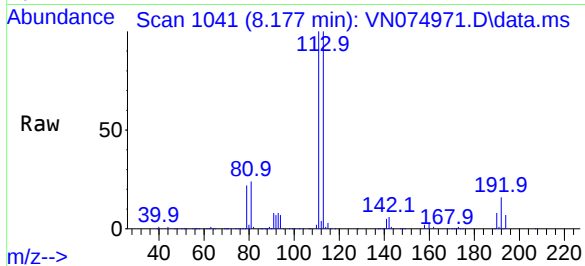




#35
Dibromofluoromethane
Concen: 43.648 ug/l
RT: 8.177 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

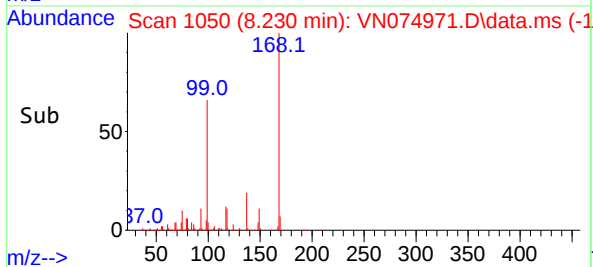
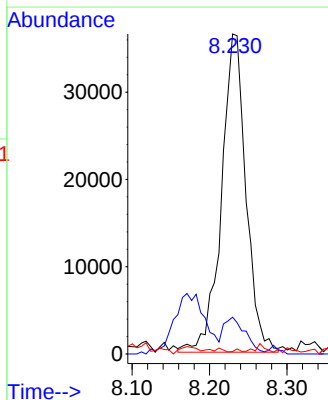
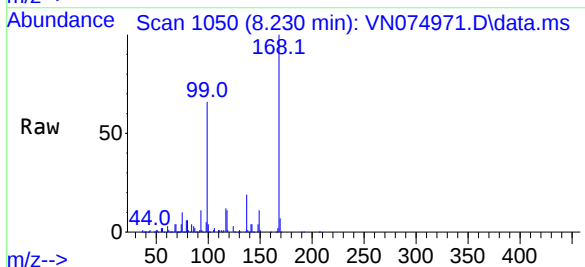
Instrument :
MSVOA_N
ClientSampleId :
MW-15

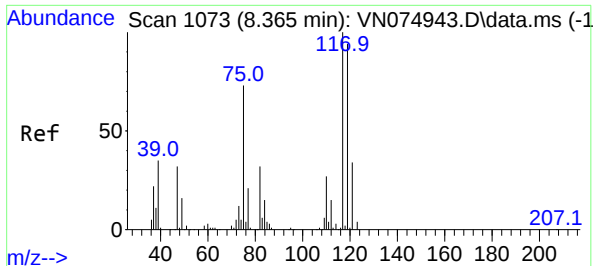
Tgt Ion:113 Resp: 763108
Ion Ratio Lower Upper
113 100
111 103.0 83.4 125.2
192 16.7 13.3 19.9



#36
1,1-Dichloropropene
Concen: 3.653 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 75 Resp: 80424
Ion Ratio Lower Upper
75 100
110 10.2 18.1 54.4#
77 0.2 25.0 37.4#

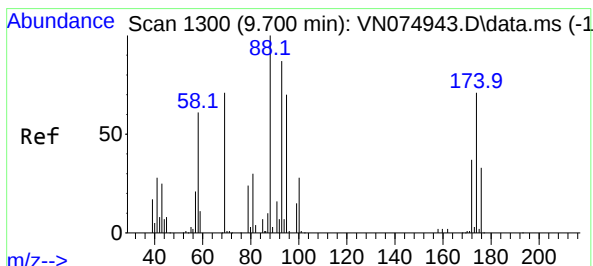
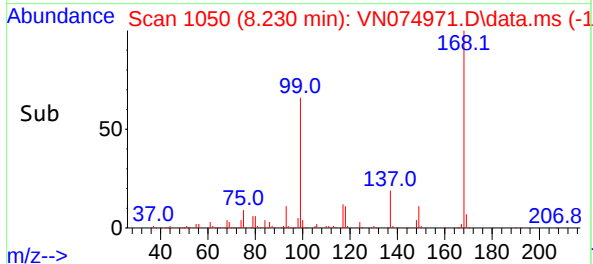
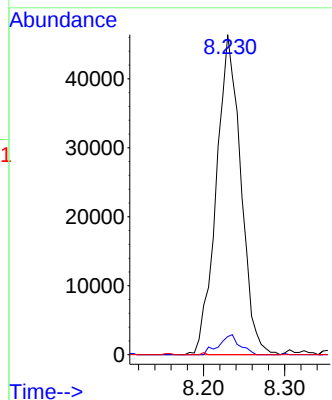
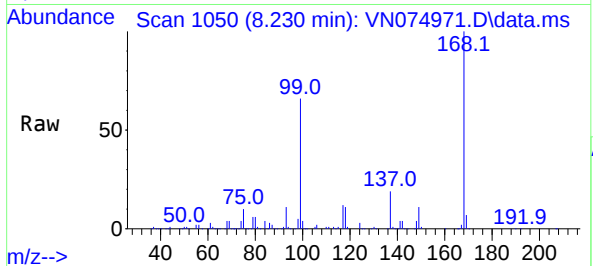




#38
Carbon Tetrachloride
Concen: 4.069 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.135 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

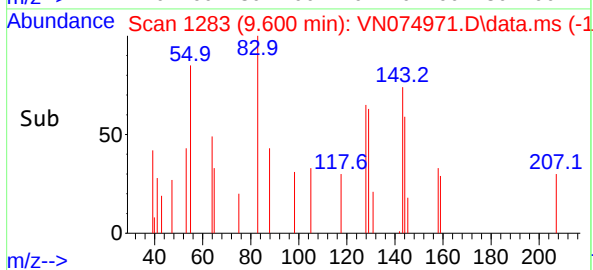
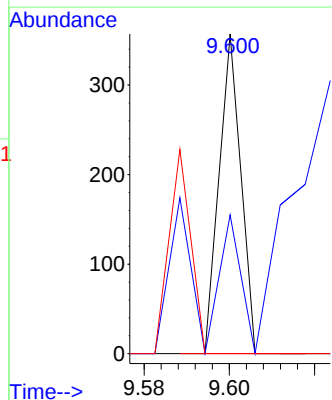
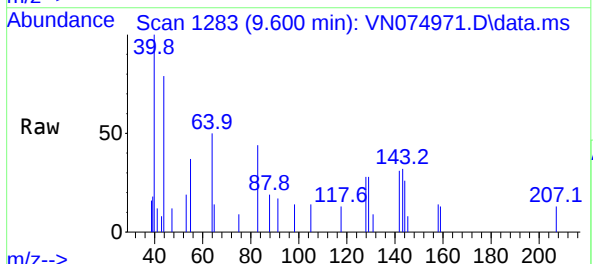
Instrument :
MSVOA_N
ClientSampleId :
MW-15

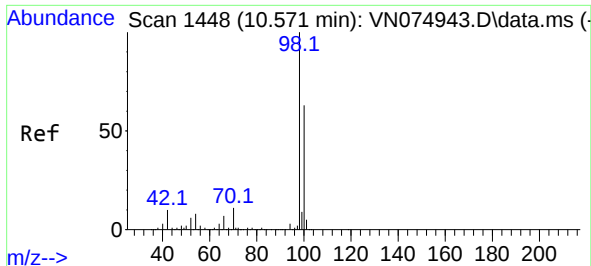
Tgt Ion:117 Resp: 97527
Ion Ratio Lower Upper
117 100
119 5.7 75.2 112.8#
121 0.0 27.0 40.6#



#49
1,4-Dioxane
Concen: 0.248 ug/l
RT: 9.600 min Scan# 1283
Delta R.T. -0.100 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 88 Resp: 126
Ion Ratio Lower Upper
88 100
43 48.4 21.1 31.7#
58 63.5 49.8 74.8

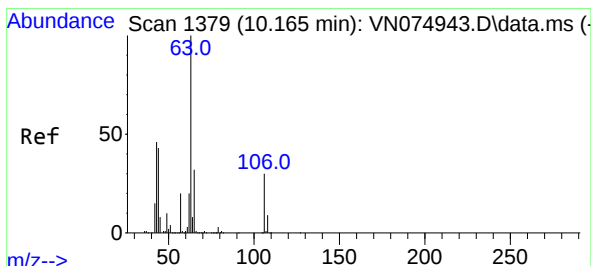
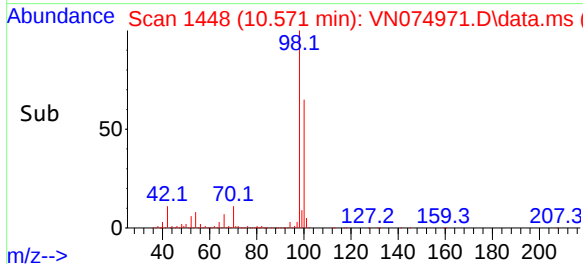
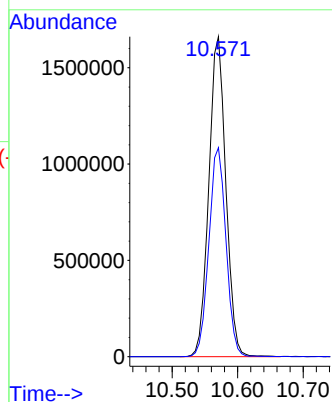
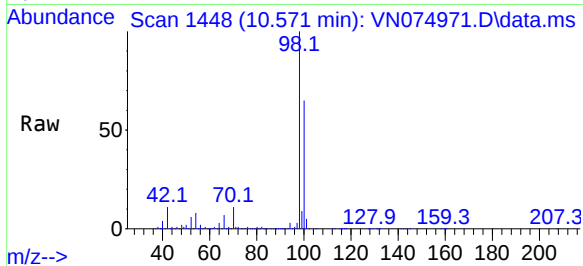




#50
Toluene-d8
Concen: 44.712 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

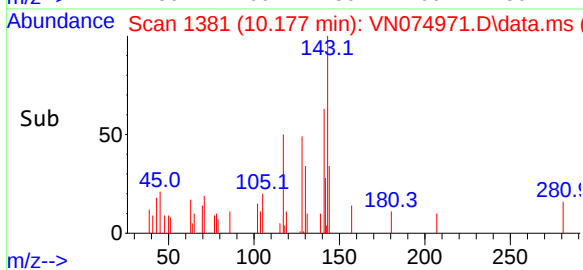
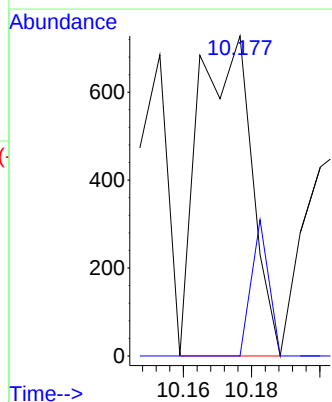
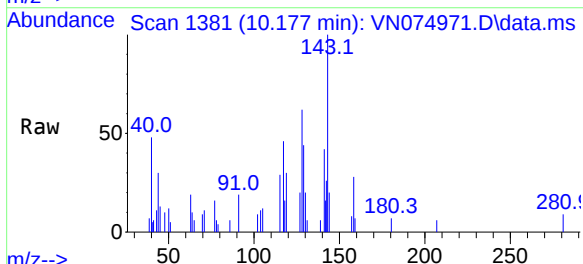
Instrument :
MSVOA_N
ClientSampleId :
MW-15

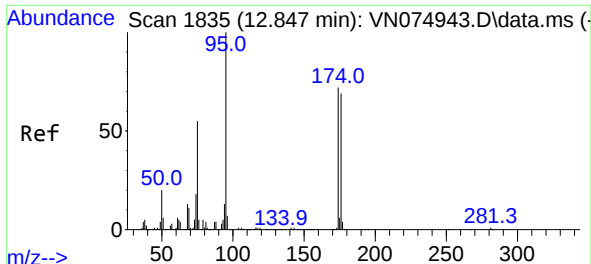
Tgt Ion: 98 Resp: 2999243
Ion Ratio Lower Upper
98 100
100 65.7 51.4 77.2



#58
2-Chloroethyl Vinyl ether
Concen: 3.670 ug/l
RT: 10.177 min Scan# 1381
Delta R.T. 0.012 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 63 Resp: 786
Ion Ratio Lower Upper
63 100
106 13.9 24.1 36.1#

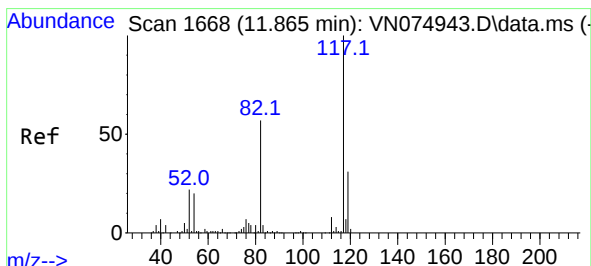
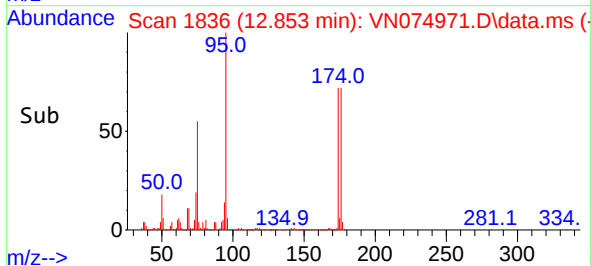
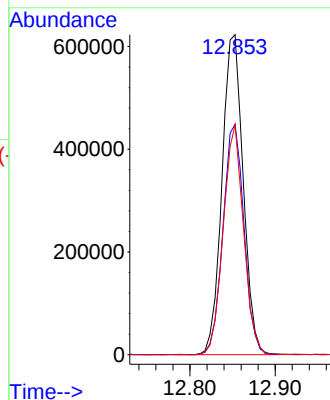
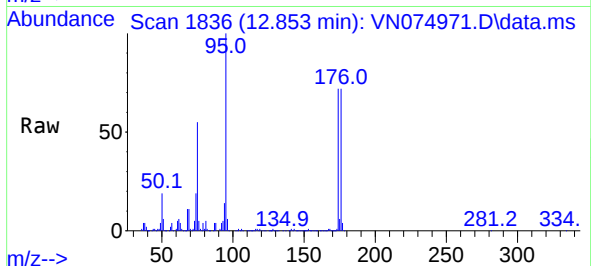




#62
4-Bromofluorobenzene
Concen: 45.362 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

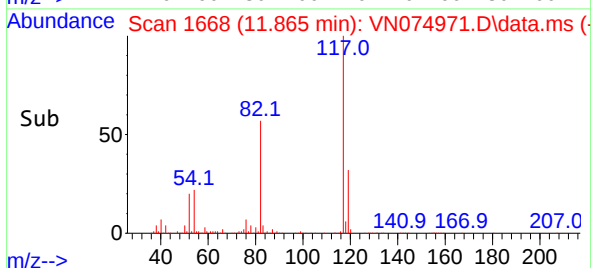
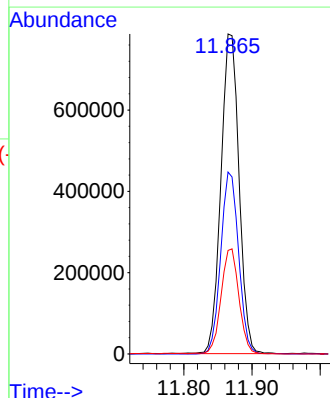
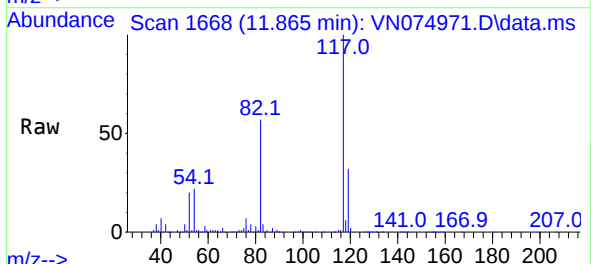
Instrument :
MSVOA_N
ClientSampleId :
MW-15

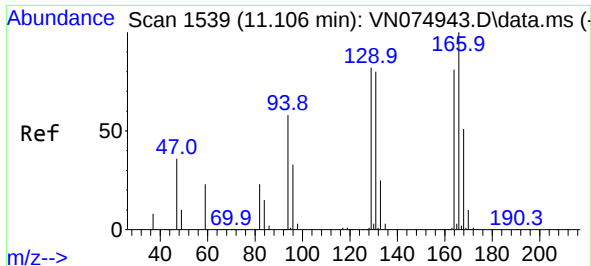
Tgt Ion: 95 Resp: 1073316
Ion Ratio Lower Upper
95 100
174 71.5 0.0 143.0
176 68.7 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 117 Resp: 1455395
Ion Ratio Lower Upper
117 100
82 56.9 45.6 68.4
119 32.4 25.1 37.7

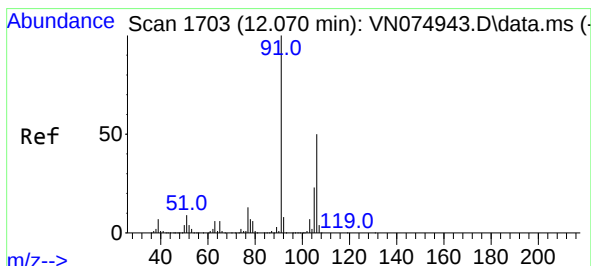
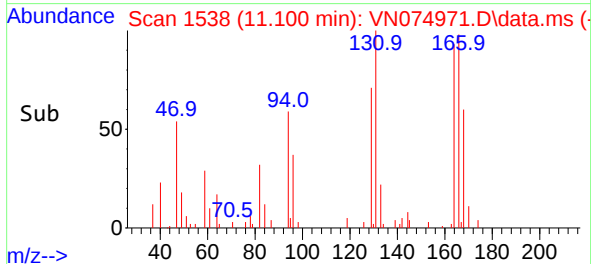
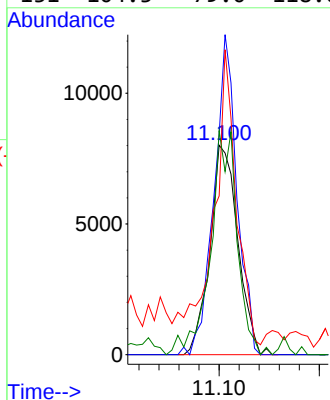
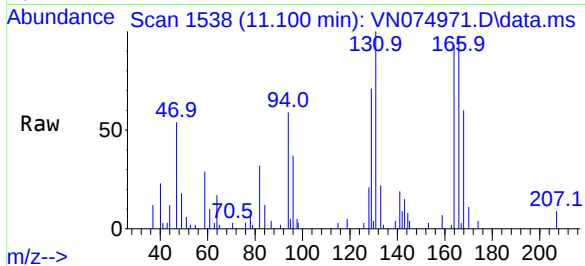




#64
Tetrachloroethene
Concen: 1.301 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

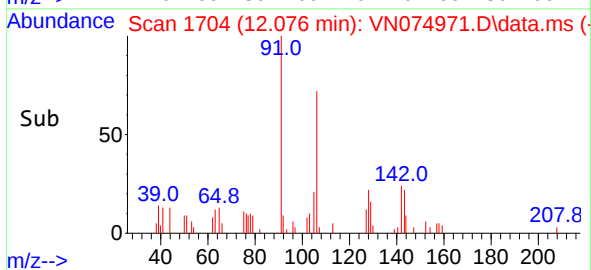
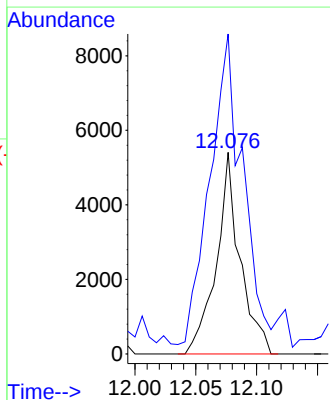
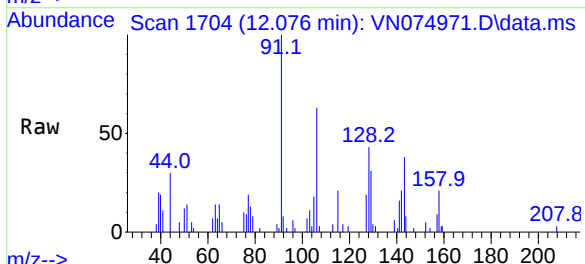
Instrument :
MSVOA_N
ClientSampleId :
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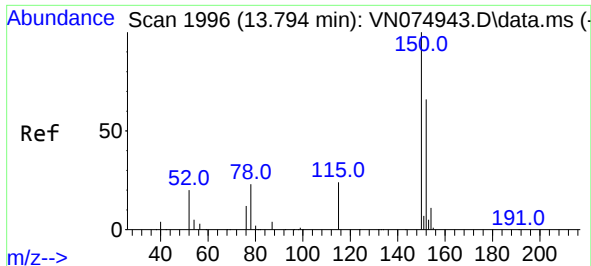
Tgt Ion:164 Resp: 15480
Ion Ratio Lower Upper
164 100
166 105.2 98.6 148.0
129 65.2 81.2 121.8#
131 104.3 79.0 118.6



#68
m/p-Xylenes
Concen: 0.239 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.006 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion:106 Resp: 7289
Ion Ratio Lower Upper
106 100
91 212.1 159.7 239.5

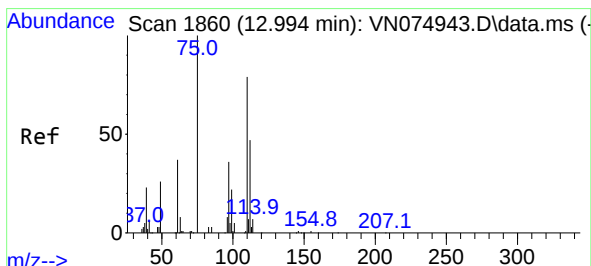
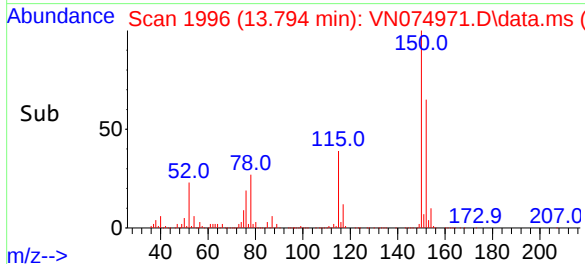
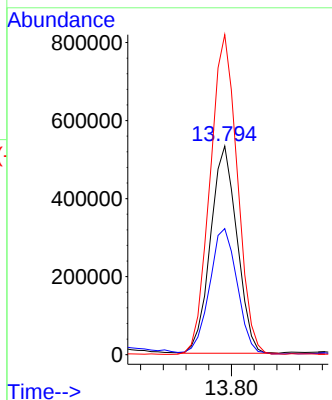
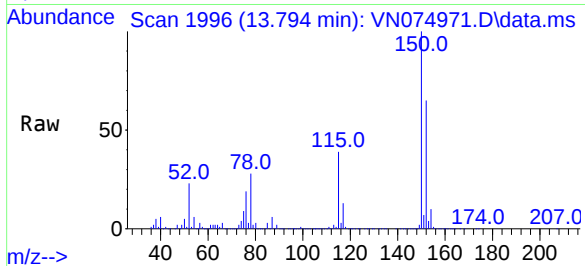




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

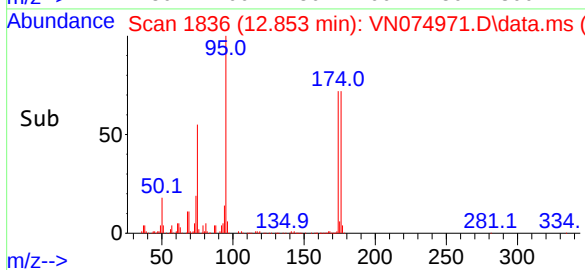
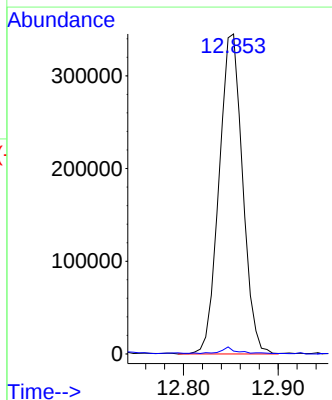
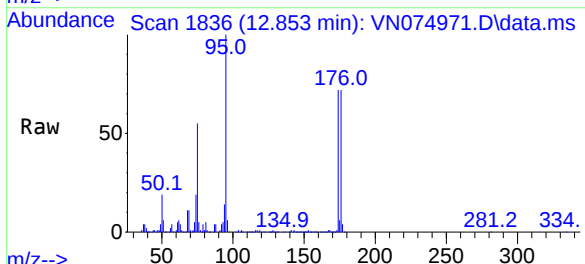
Instrument :
MSVOA_N
ClientSampleId :
MW-15

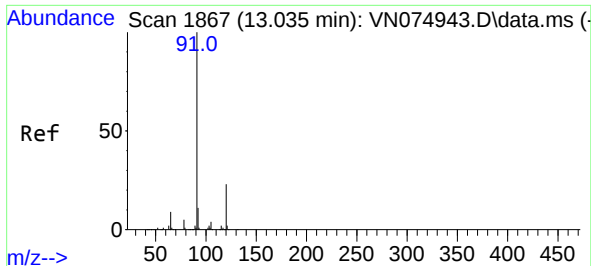
Tgt Ion:152 Resp: 860177
Ion Ratio Lower Upper
152 100
115 63.1 31.3 93.8
150 159.1 0.0 349.6



#76
1,2,3-Trichloropropane
Concen: 25.525 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 75 Resp: 595432
Ion Ratio Lower Upper
75 100
77 1.5 81.0 243.0#

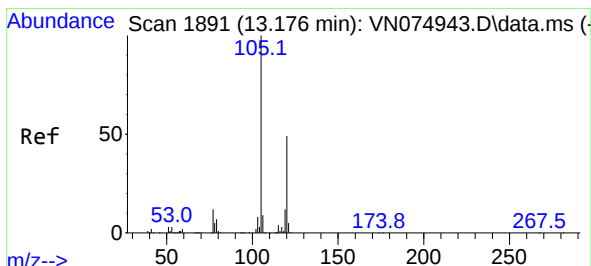
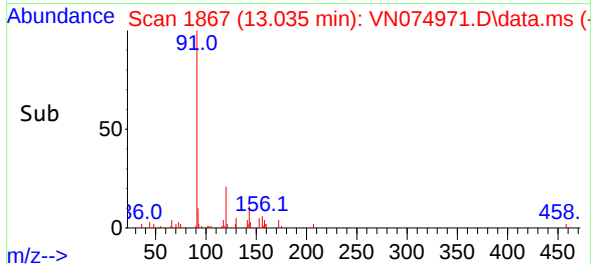
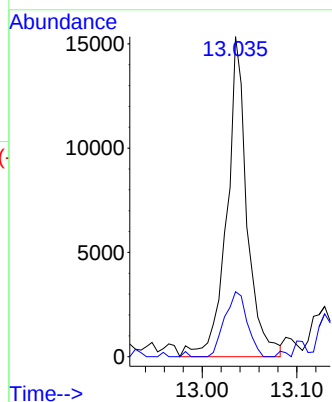
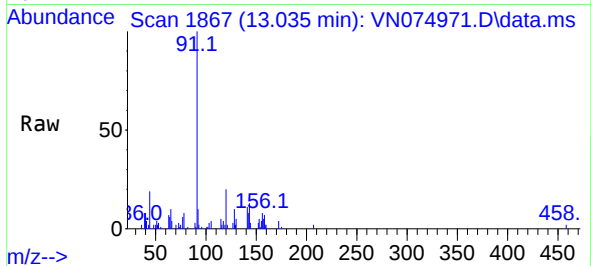




#78
n-propylbenzene
Concen: 0.276 ug/l
RT: 13.035 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

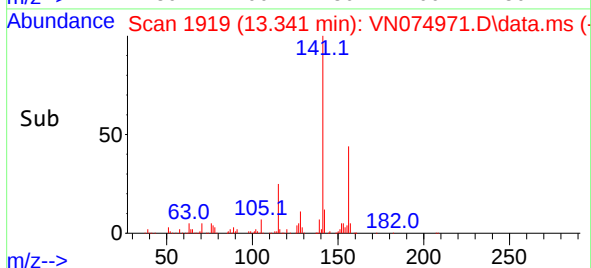
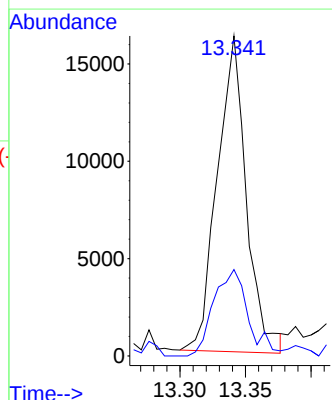
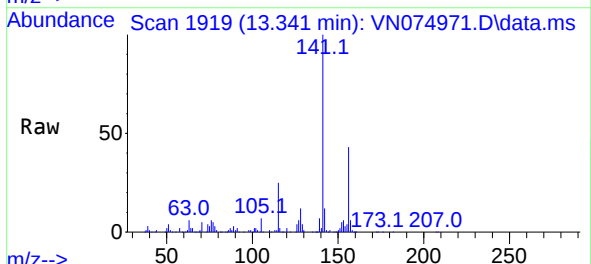
Instrument :
MSVOA_N
ClientSampleId :
MW-15

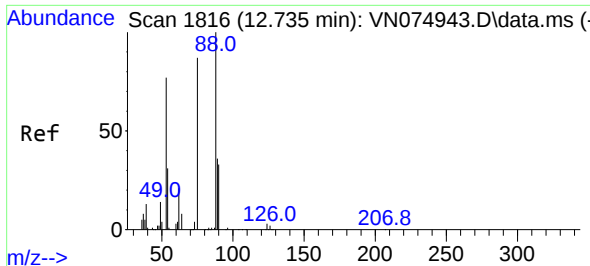
Tgt Ion: 91 Resp: 22679
Ion Ratio Lower Upper
91 100
120 22.6 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 0.412 ug/l
RT: 13.341 min Scan# 1919
Delta R.T. 0.165 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion: 105 Resp: 25006
Ion Ratio Lower Upper
105 100
120 32.4 24.3 72.9

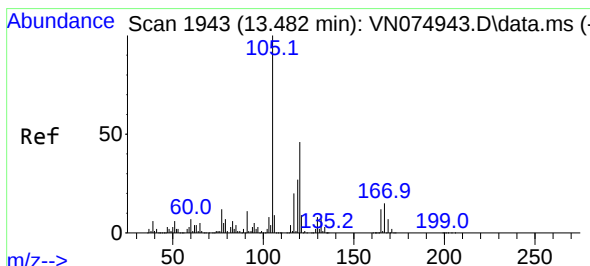
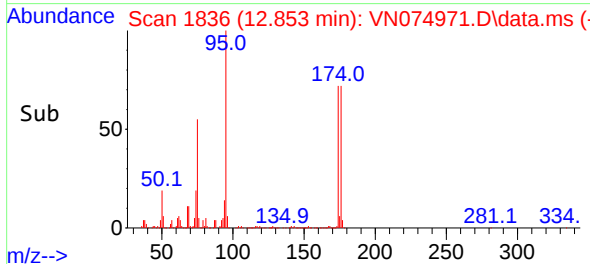
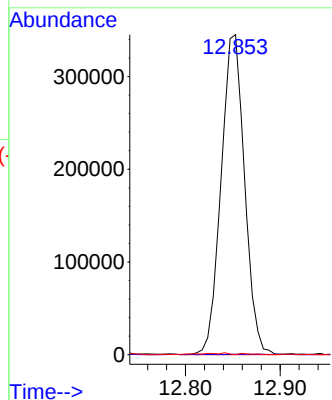
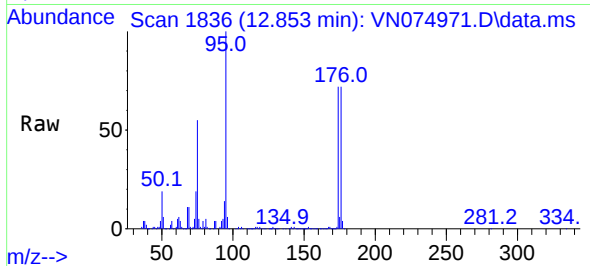




#81
trans-1,4-Dichloro-2-butene
Concen: 81.840 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

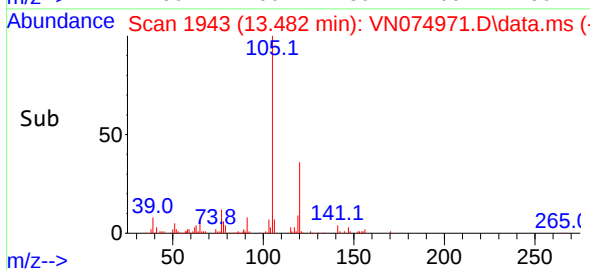
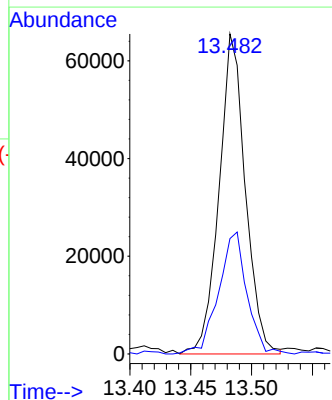
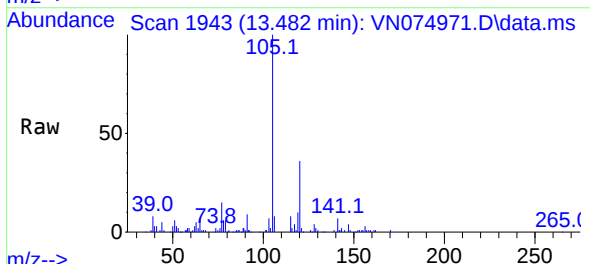
Instrument :
MSVOA_N
ClientSampleId :
MW-15

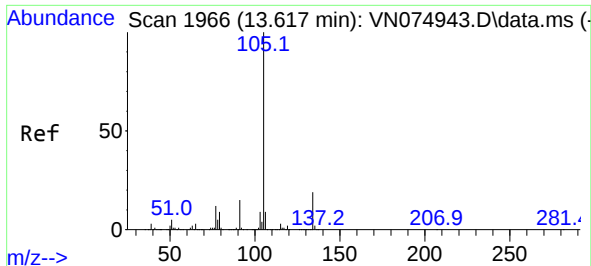
Tgt Ion: 75 Resp: 595432
Ion Ratio Lower Upper
75 100
53 0.1 79.2 118.8#
89 0.2 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.605 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Tgt Ion:105 Resp: 98354
Ion Ratio Lower Upper
105 100
120 41.2 22.9 68.5

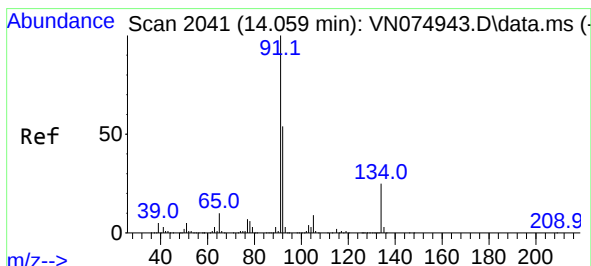
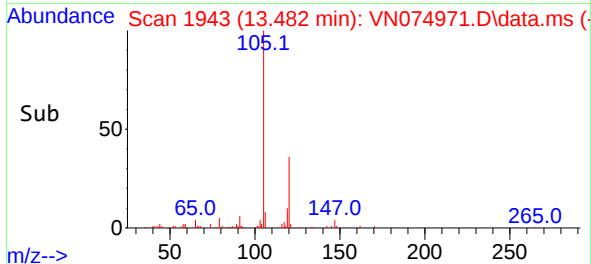
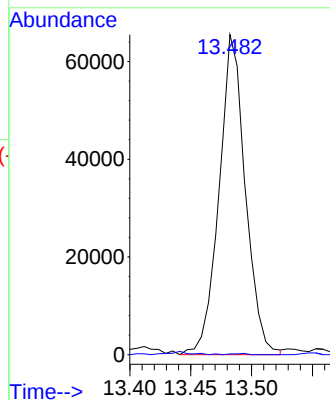
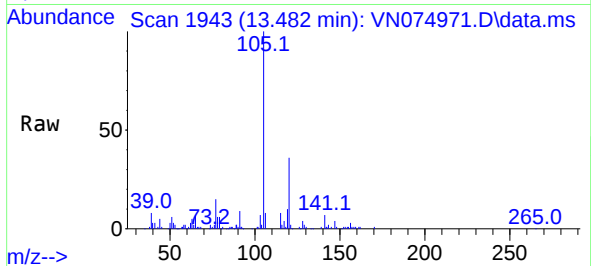




#85
 sec-Butylbenzene
 Concen: 1.304 ug/l
 RT: 13.482 min Scan# 1966
 Delta R.T. -0.135 min
 Lab File: VN074971.D
 Acq: 21 Oct 2022 19:00

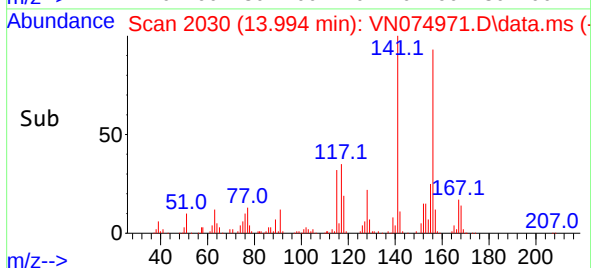
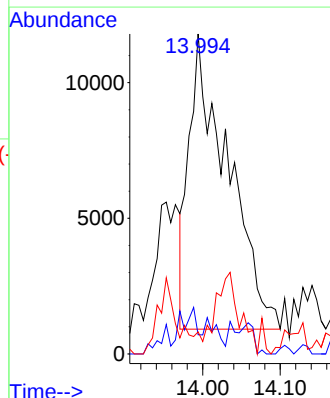
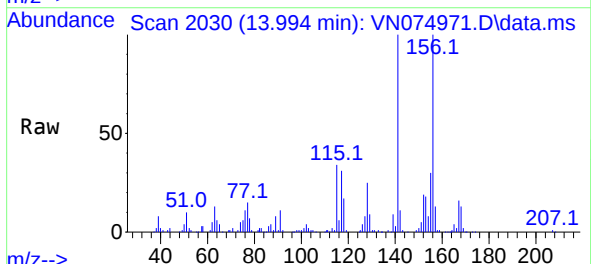
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

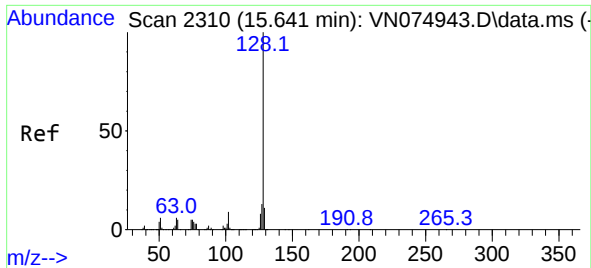
Tgt Ion:105 Resp: 98354
 Ion Ratio Lower Upper
 105 100
 134 0.2 9.7 29.1#



#89
 n-Butylbenzene
 Concen: 0.712 ug/l
 RT: 13.994 min Scan# 2030
 Delta R.T. -0.065 min
 Lab File: VN074971.D
 Acq: 21 Oct 2022 19:00

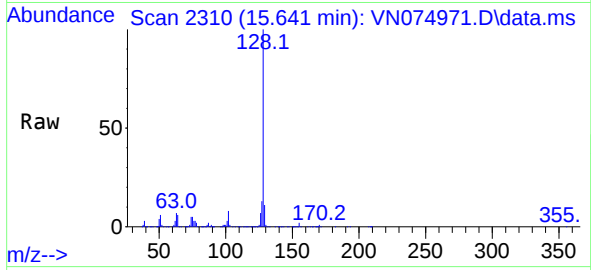
Tgt Ion: 91 Resp: 37750
 Ion Ratio Lower Upper
 91 100
 92 6.9 26.3 78.9#
 134 0.0 12.6 37.6#





#95
Naphthalene
Concen: 40.907 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN074971.D
Acq: 21 Oct 2022 19:00

Instrument :
MSVOA_N
ClientSampleId :
MW-15



Tgt Ion:128 Resp: 2137791
Ion Ratio Lower Upper
128 100
127 13.1 10.4 15.6
129 10.7 8.6 12.8

