

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051723\
 Data File : VN077714.D
 Acq On : 17 May 2023 15:20
 Operator : JC\MD
 Sample : 02213-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2023

Quant Time: May 18 02:42:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 18 02:40:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	357876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	657380	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	563085	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	219028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	284748	53.177	ug/l	0.00
Spiked Amount 50.000	Range	74 - 125	Recovery	=	106.360%	
35) Dibromofluoromethane	8.171	113	226921	52.936	ug/l	0.00
Spiked Amount 50.000	Range	75 - 124	Recovery	=	105.880%	
50) Toluene-d8	10.570	98	848646	51.434	ug/l	0.00
Spiked Amount 50.000	Range	86 - 113	Recovery	=	102.860%	
62) 4-Bromofluorobenzene	12.859	95	267668	45.933	ug/l	0.00
Spiked Amount 50.000	Range	83 - 123	Recovery	=	91.860%	
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1944	0.398	ug/l	92
4) Vinyl Chloride	2.524	62	1190	0.232	ug/l #	1
5) Bromomethane	2.965	94	2009	0.529	ug/l	90
6) Chloroethane	3.153	64	848	0.229	ug/l #	80
7) Trichlorofluoromethane	3.494	101	1611	0.225	ug/l #	67
10) Methyl Iodide	4.612	142	1756	0.372	ug/l #	38
11) Tert butyl alcohol	5.524	59	524	0.709	ug/l #	72
13) Acrolein	4.183	56	703	1.338	ug/l #	68
15) Acrylonitrile	5.712	53	830	0.420	ug/l #	67
16) Acetone	4.465	43	3276	1.945	ug/l #	40
18) Methyl Acetate	5.036	43	1452	0.205	ug/l #	75
20) Methylene Chloride	5.283	84	2442	0.484	ug/l	95
23) Vinyl Acetate	6.618	43	6837	0.851	ug/l	95
25) 2-Butanone	7.500	43	2660	1.009	ug/l #	58
28) Bromochloromethane	7.812	49	848	0.247	ug/l #	38
29) Tetrahydrofuran	7.847	42	828	0.480	ug/l #	61
31) Cyclohexane	8.241	56	10348	1.422	ug/l #	52
32) 1,1,1-Trichloroethane	8.171	97	1620	0.218	ug/l #	24
36) 1,1-Dichloropropene	8.382	75	1485	0.237	ug/l #	80
38) Carbon Tetrachloride	8.229	117	40697	6.428	ug/l #	16
40) Benzene	8.612	78	4213	0.228	ug/l #	86
42) 1,2-Dichloroethane	8.682	62	1878	0.279	ug/l #	73
46) Dibromomethane	9.712	93	701	0.208	ug/l #	84
48) Methyl methacrylate	9.694	41	1122	0.259	ug/l #	69
49) 1,4-Dioxane	9.700	88	77	0.942	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	5231	0.964	ug/l	94
52) Toluene	10.635	92	2557	0.222	ug/l	97
54) cis-1,3-Dichloropropene	10.318	75	1574	0.209	ug/l #	85
56) Ethyl methacrylate	10.888	69	1489	0.215	ug/l #	65
57) 1,3-Dichloropropane	11.176	76	1797	0.229	ug/l #	75
58) 2-Chloroethyl Vinyl ether	10.170	63	3461	1.017	ug/l #	83
59) 2-Hexanone	11.206	43	4396	1.095	ug/l	93
60) Dibromochloromethane	11.359	129	999	0.212	ug/l	97
61) 1,2-Dibromoethane	11.465	107	1303	0.286	ug/l #	77
64) Tetrachloroethene	11.112	164	1291	0.328	ug/l	92
65) Chlorobenzene	11.900	112	3041	0.249	ug/l #	86

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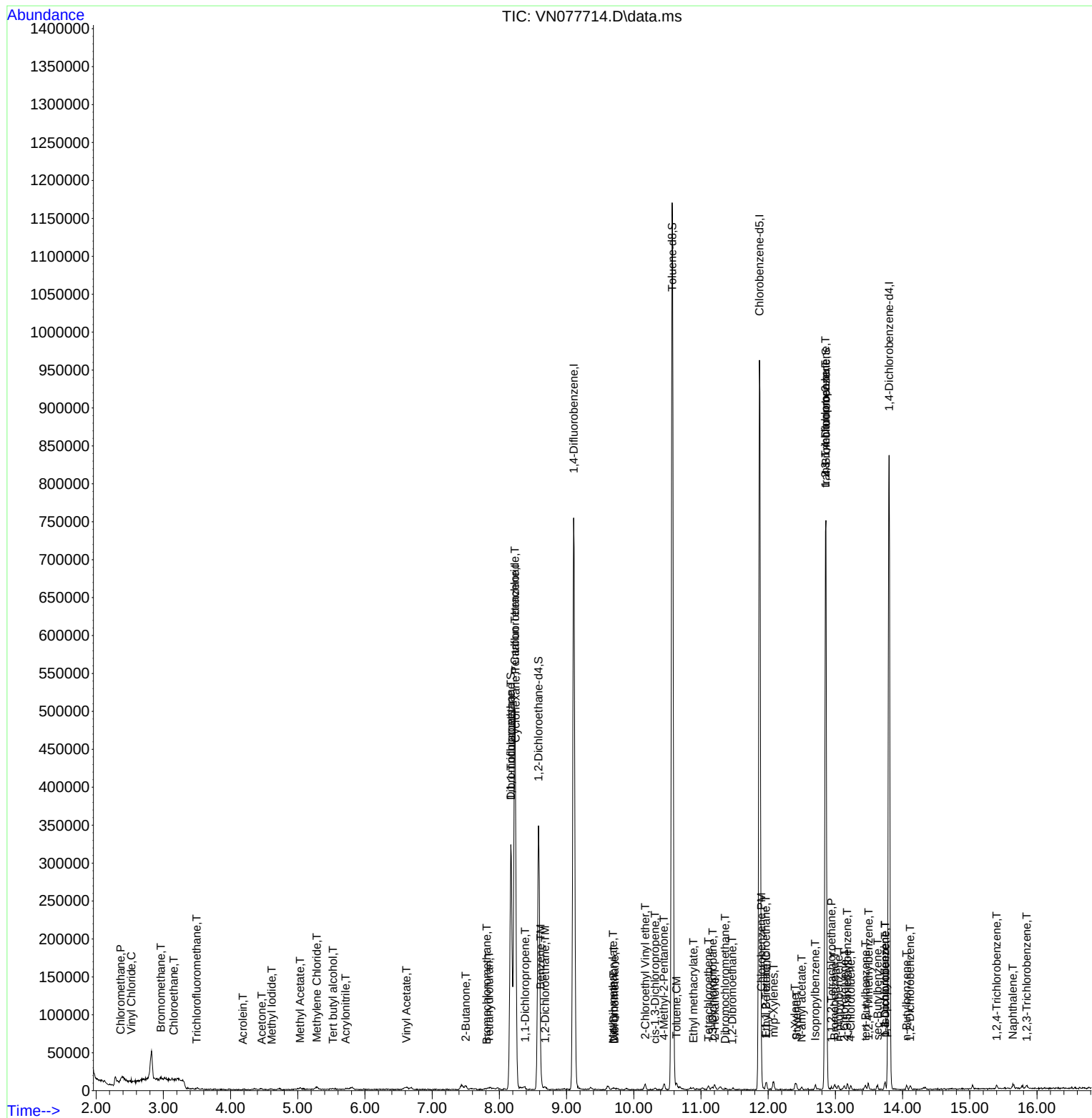
Quant Time: May 18 02:42:45 2023
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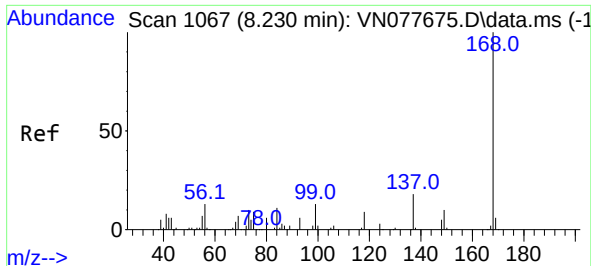
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,1,1,2-Tetrachloroethane	11.964	131	973	0.230	ug/l #	58
67) Ethyl Benzene	11.970	91	4818	0.220	ug/l #	86
68) m/p-Xylenes	12.082	106	3791	0.457	ug/l	90
69) o-Xylene	12.400	106	1682	0.206	ug/l	94
70) Styrene	12.423	104	3099	0.239	ug/l	92
73) Isopropylbenzene	12.700	105	4056	0.215	ug/l	83
74) N-amyl acetate	12.500	43	1789	0.256	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	1453	0.250	ug/l #	92
76) 1,2,3-Trichloropropane	12.853	75	144547	26.352	ug/l #	1
77) Bromobenzene	12.988	156	1204	0.279	ug/l	79
78) n-propylbenzene	13.047	91	4948	0.222	ug/l	98
79) 2-Chlorotoluene	13.135	91	3287	0.247	ug/l	99
80) 1,3,5-Trimethylbenzene	13.176	105	3719	0.234	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.853	75	144547	84.235	ug/l #	15
82) 4-Chlorotoluene	13.229	91	3904	0.295	ug/l	85
83) tert-Butylbenzene	13.447	119	3040	0.219	ug/l	99
84) 1,2,4-Trimethylbenzene	13.494	105	3611	0.231	ug/l	89
85) sec-Butylbenzene	13.629	105	4097	0.208	ug/l	98
86) p-Isopropyltoluene	13.741	119	3583	0.228	ug/l	98
87) 1,3-Dichlorobenzene	13.741	146	2591	0.325	ug/l	92
88) 1,4-Dichlorobenzene	13.741	146	2591	0.328	ug/l	94
89) n-Butylbenzene	14.058	91	3374	0.234	ug/l	91
91) 1,2-Dichlorobenzene	14.111	146	1839	0.247	ug/l	80
93) 1,2,4-Trichlorobenzene	15.400	180	2114	0.486	ug/l #	59
95) Naphthalene	15.641	128	5787	0.387	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.847	180	1812	0.425	ug/l	94

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

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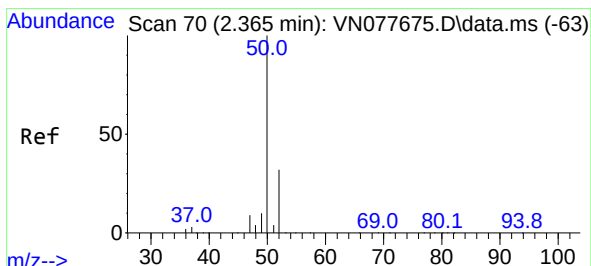
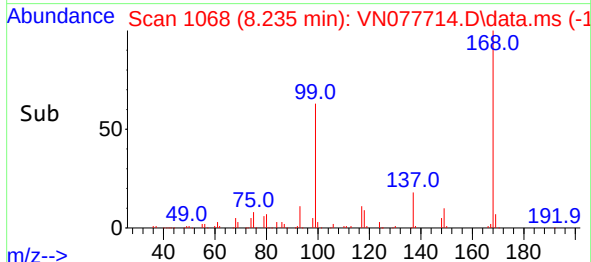
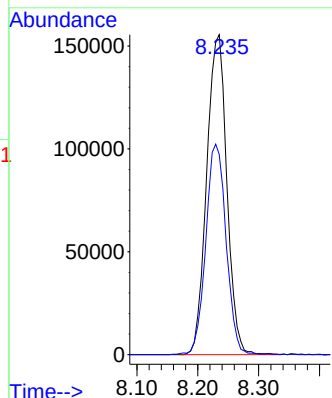
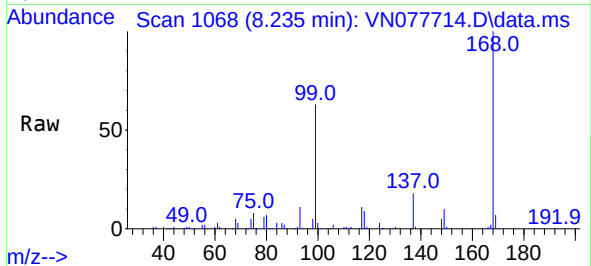




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
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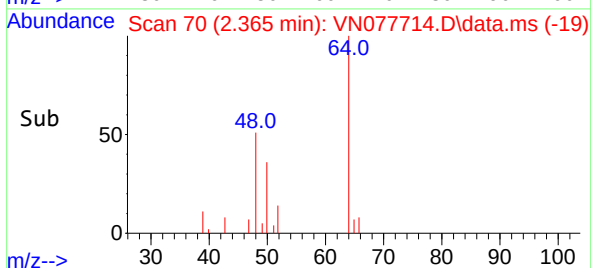
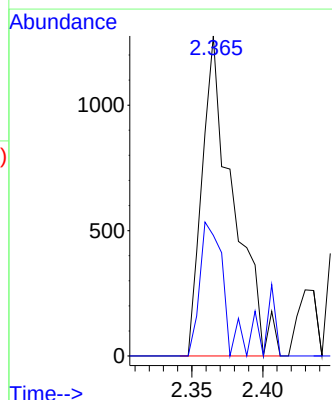
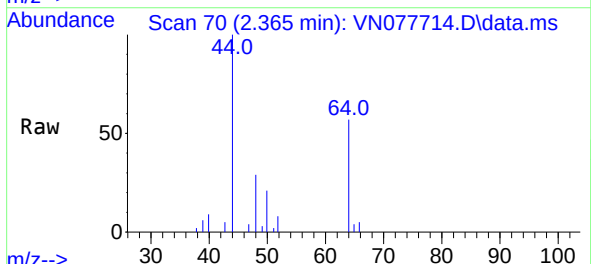
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

Tgt Ion:168 Resp: 357876
Ion Ratio Lower Upper
168 100
99 62.4 53.0 79.6

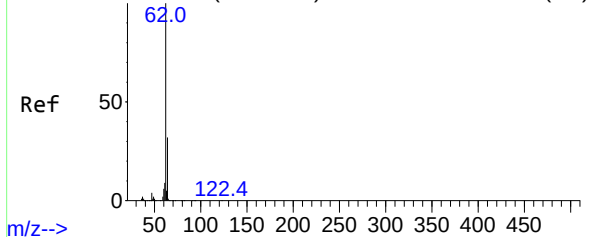


#3
Chloromethane
Concen: 0.398 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

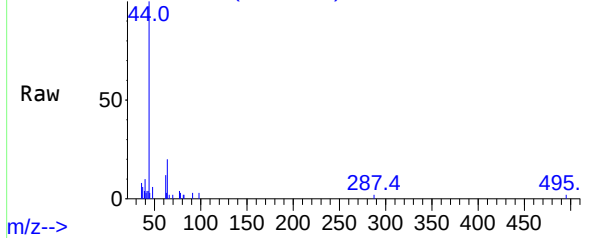
Tgt Ion: 50 Resp: 1944
Ion Ratio Lower Upper
50 100
52 37.7 26.5 39.7



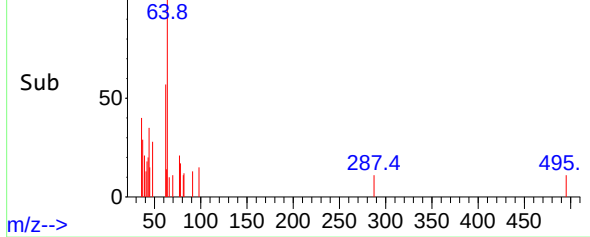
Abundance Scan 95 (2.512 min): VN077675.D\data.ms (-85)



Abundance Scan 97 (2.524 min): VN077714.D\data.ms



Abundance Scan 97 (2.524 min): VN077714.D\data.ms (-44)



#4

Vinyl Chloride

Concen: 0.232 ug/l

RT: 2.524 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

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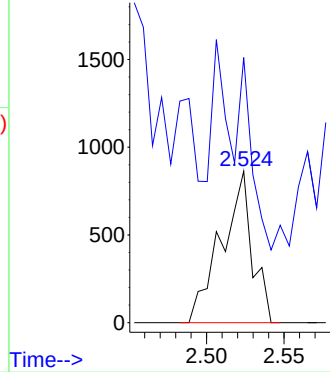
Tgt Ion: 62 Resp: 1190

Ion Ratio Lower Upper

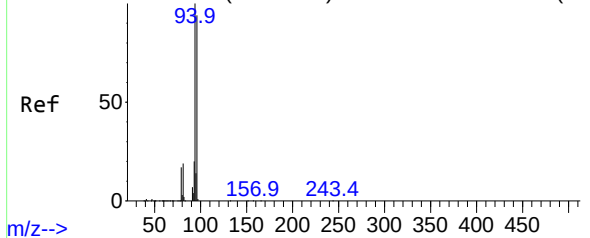
62 100

64 110.6 26.2 39.2#

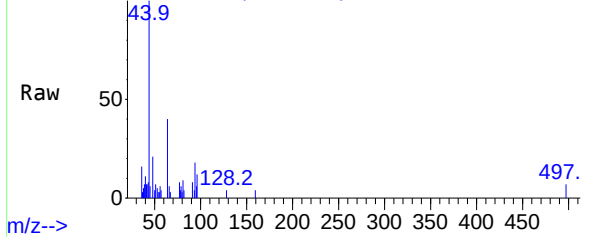
Abundance



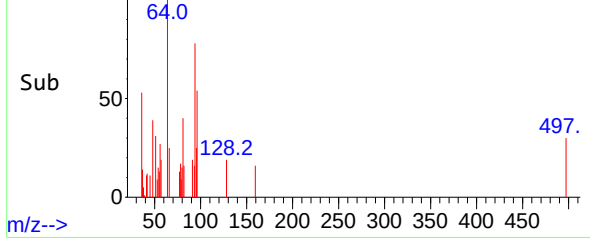
Abundance Scan 169 (2.947 min): VN077675.D\data.ms (-15)



Abundance Scan 172 (2.965 min): VN077714.D\data.ms



Abundance Scan 172 (2.965 min): VN077714.D\data.ms (-11)



#5

Bromomethane

Concen: 0.529 ug/l

RT: 2.965 min Scan# 172

Delta R.T. 0.018 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

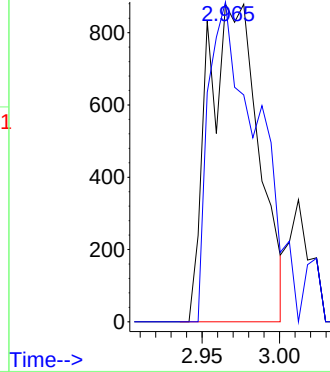
Tgt Ion: 94 Resp: 2009

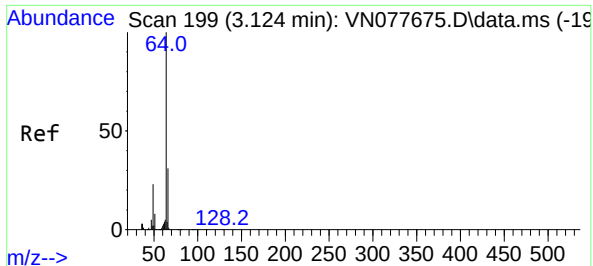
Ion Ratio Lower Upper

94 100

96 100.7 73.1 109.7

Abundance

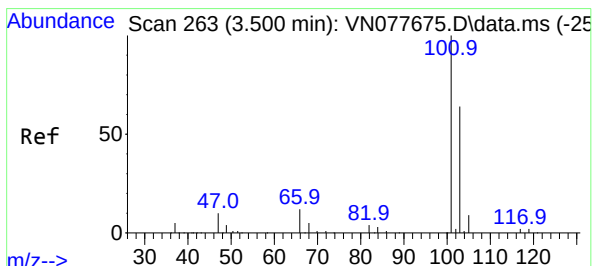
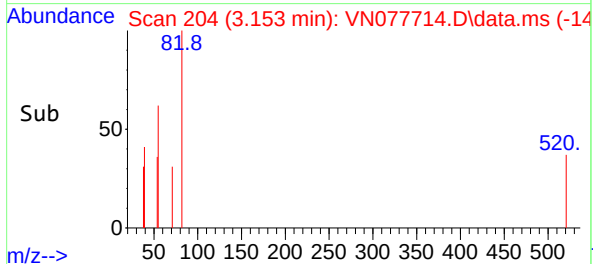
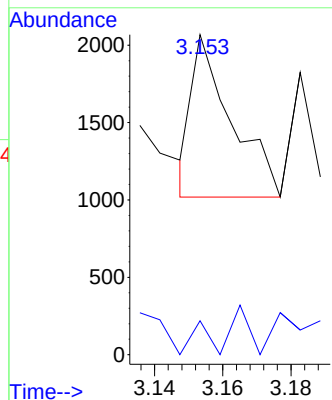
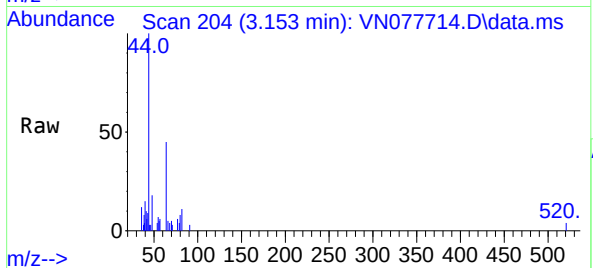




#6
Chloroethane
Concen: 0.229 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

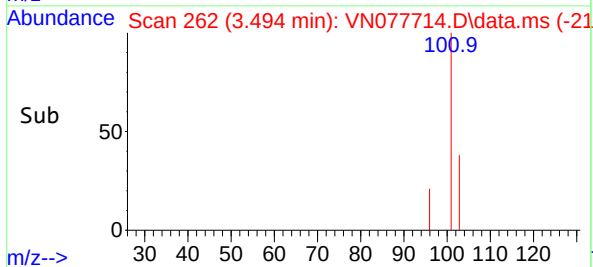
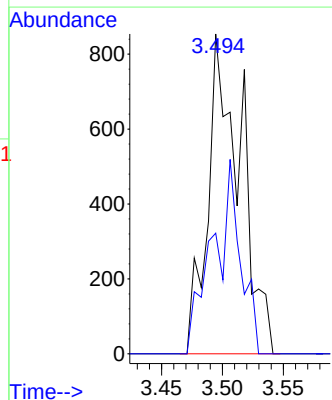
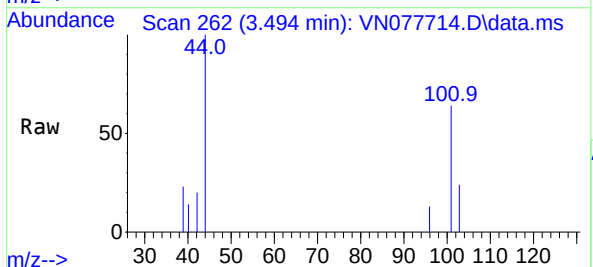
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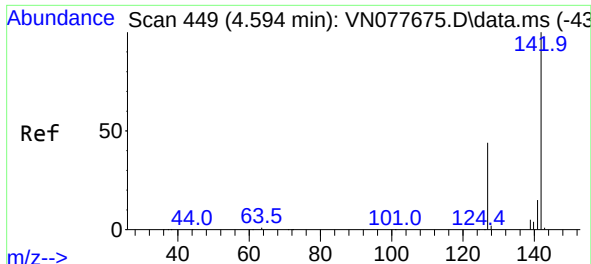
Tgt Ion: 64 Resp: 848
Ion Ratio Lower Upper
64 100
66 20.9 25.4 38.2#



#7
Trichlorofluoromethane
Concen: 0.225 ug/l
RT: 3.494 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:101 Resp: 1611
Ion Ratio Lower Upper
101 100
103 37.7 50.7 76.1#

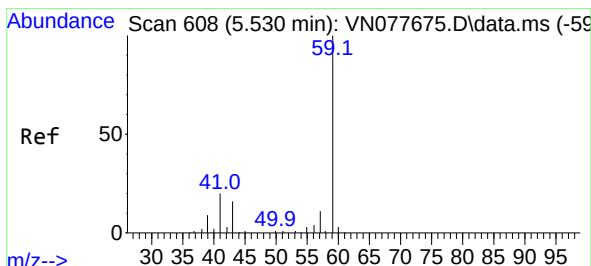
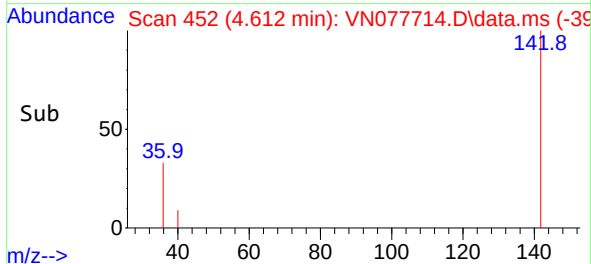
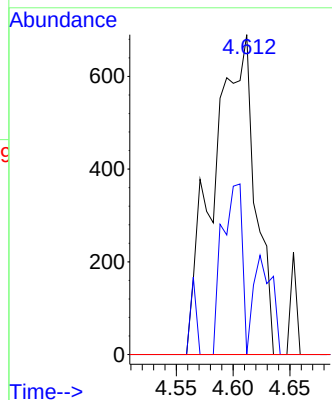
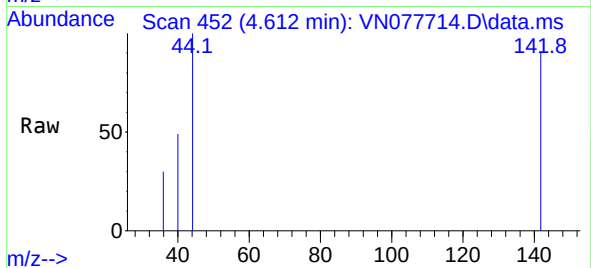




#10
Methyl Iodide
Concen: 0.372 ug/l
RT: 4.612 min Scan# 411
Delta R.T. 0.018 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

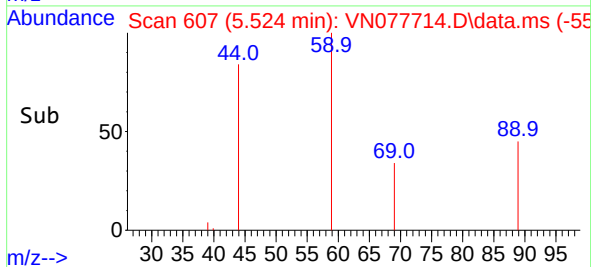
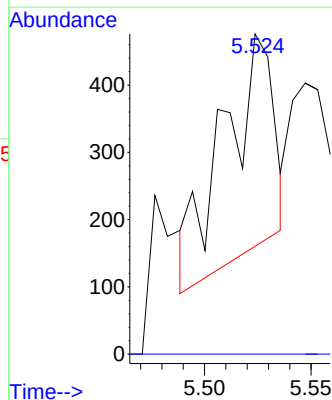
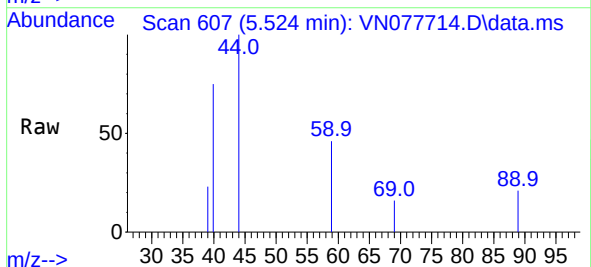
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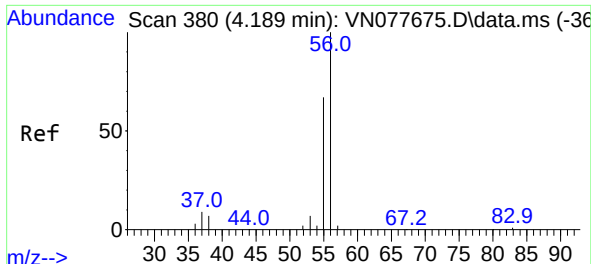
Tgt Ion:142 Resp: 1756
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.709 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 59 Resp: 524
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

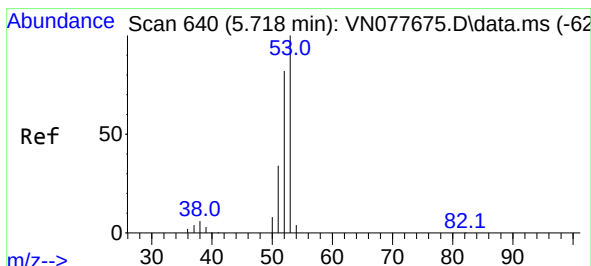
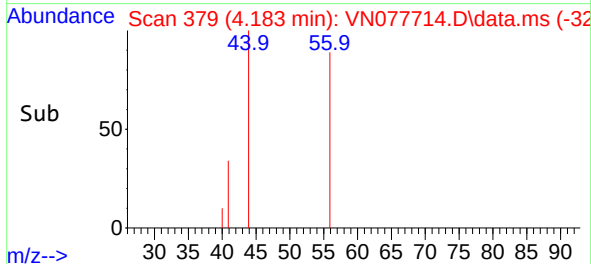
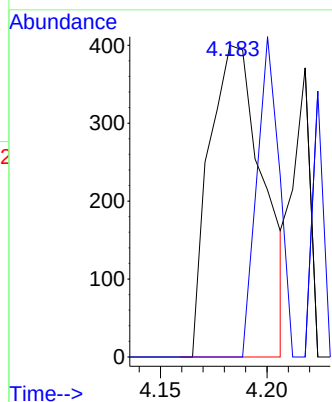
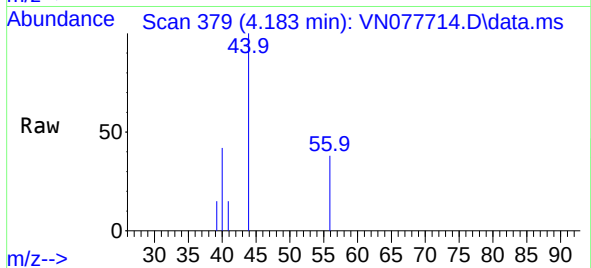




#13
Acrolein
Concen: 1.338 ug/l
RT: 4.183 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

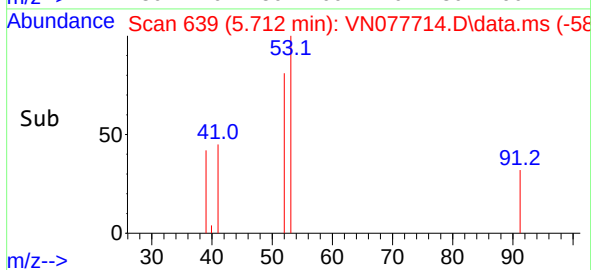
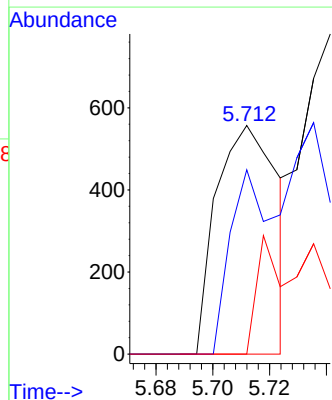
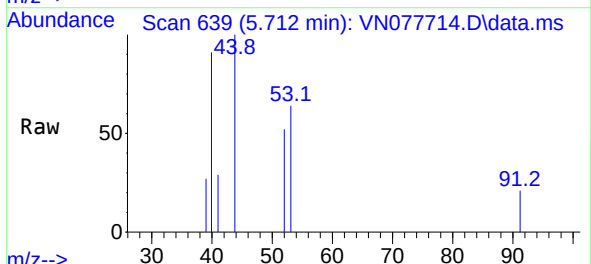
Instrument : MSVOA_N
ClientSampleId : MDL-WATER-03-QT2-2023

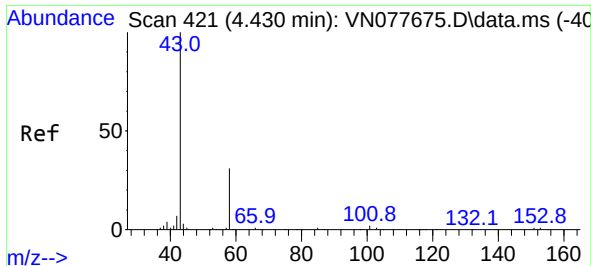
Tgt Ion: 56 Resp: 703
Ion Ratio Lower Upper
56 100
55 42.4 54.5 81.7#



#15
Acrylonitrile
Concen: 0.420 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 53 Resp: 830
Ion Ratio Lower Upper
53 100
52 45.4 65.3 97.9#
51 27.2 28.9 43.3#

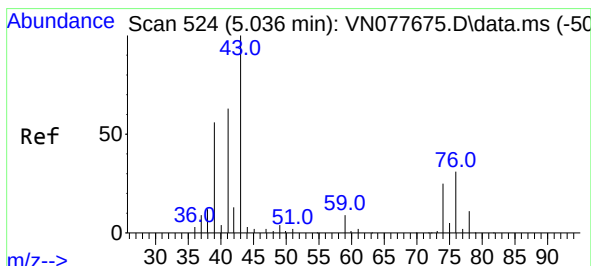
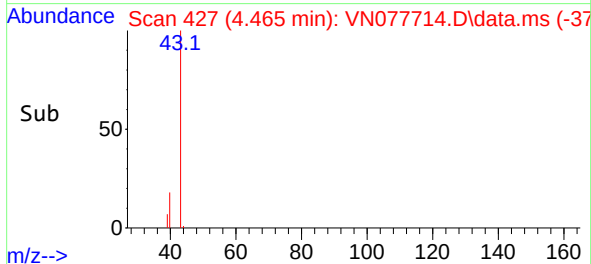
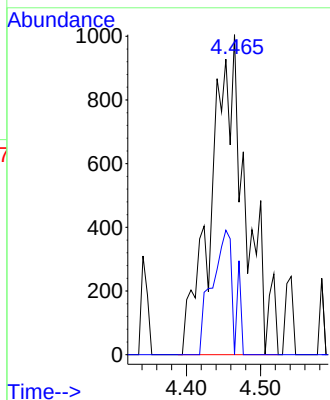
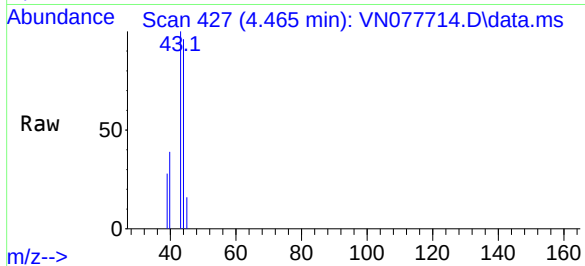




#16
Acetone
Concen: 1.945 ug/l
RT: 4.465 min Scan# 431
Delta R.T. 0.035 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

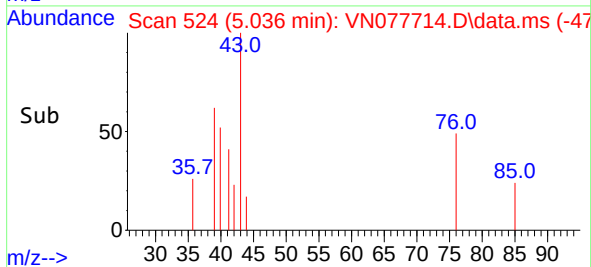
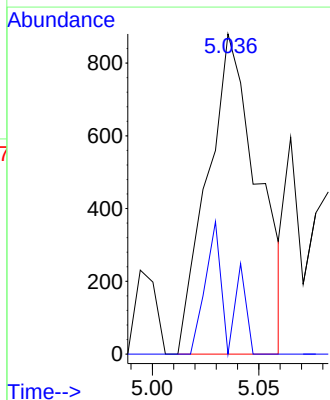
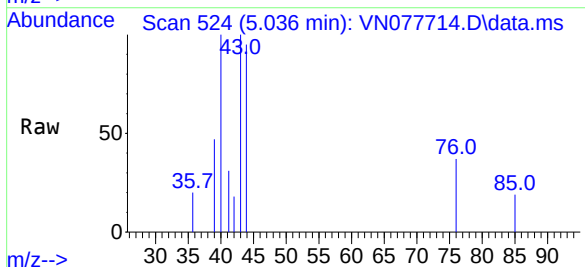
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

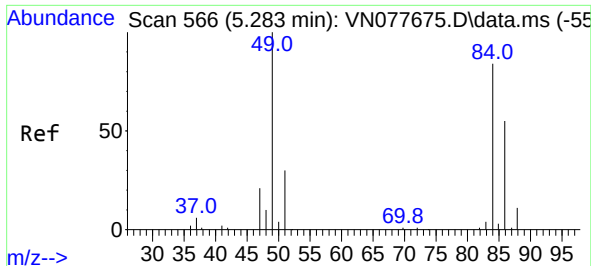
Tgt Ion: 43 Resp: 3276
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.205 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

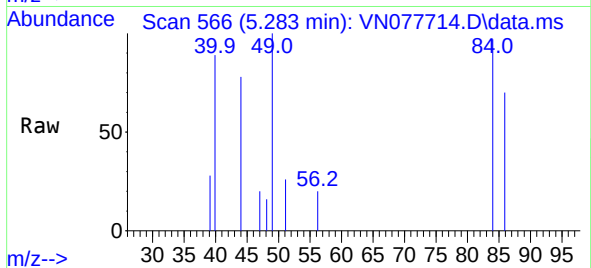
Tgt Ion: 43 Resp: 1452
Ion Ratio Lower Upper
43 100
74 18.8 26.2 39.4#





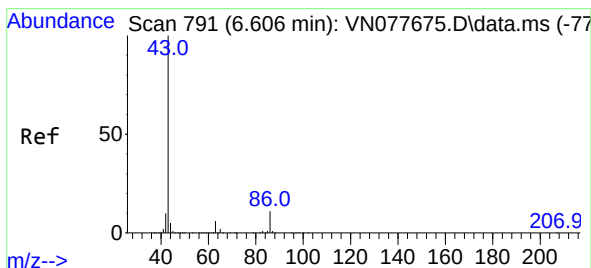
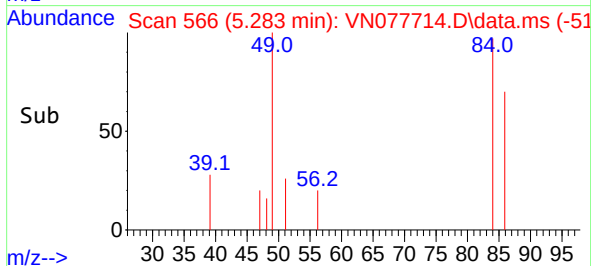
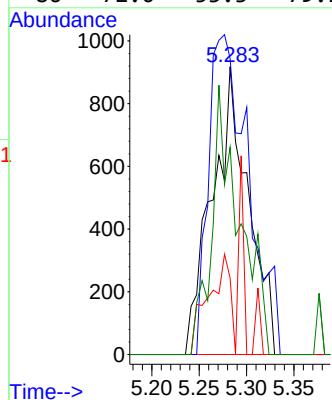
#20
Methylene Chloride
Concen: 0.484 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023



Tgt Ion: 84 Resp: 2442

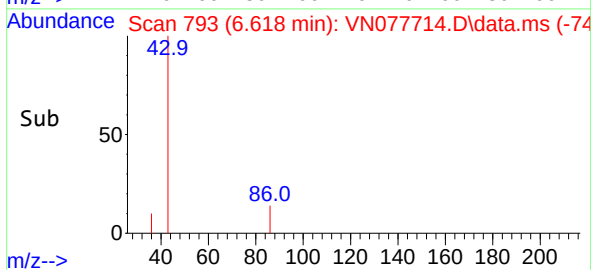
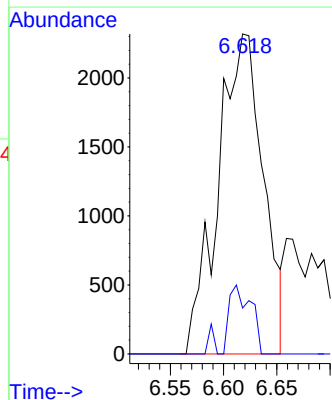
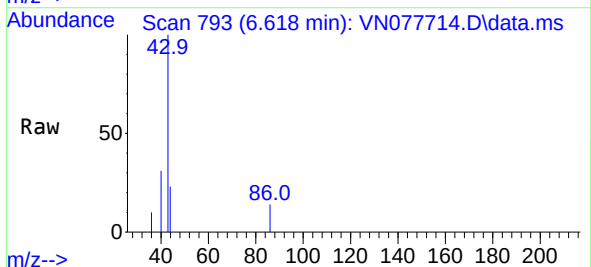
Ion	Ratio	Lower	Upper
84	100		
49	102.8	79.7	119.5
51	26.6	25.2	37.8
86	72.0	53.3	79.9

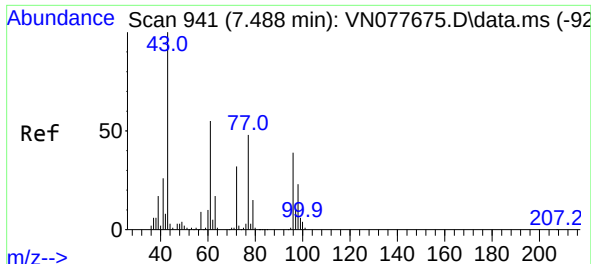


#23
Vinyl Acetate
Concen: 0.851 ug/l
RT: 6.618 min Scan# 793
Delta R.T. 0.012 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 43 Resp: 6837

Ion	Ratio	Lower	Upper
43	100		
86	14.3	13.0	19.6

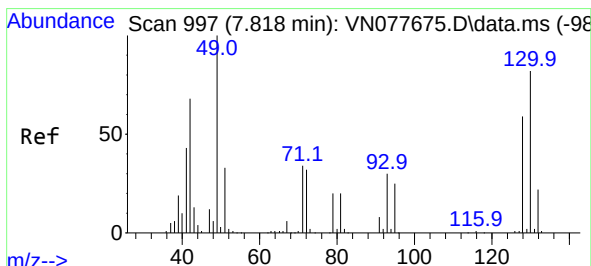
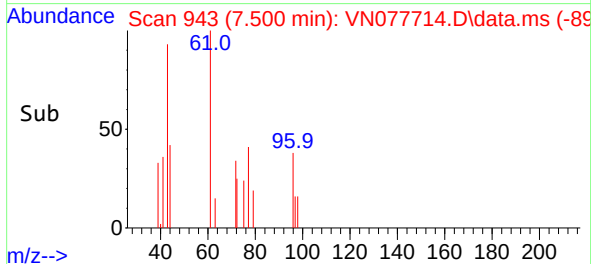
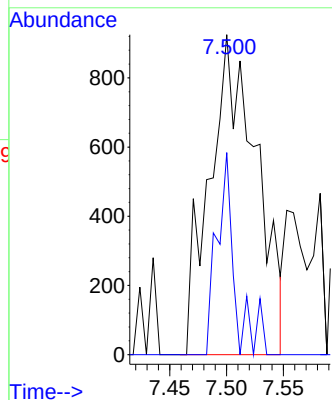
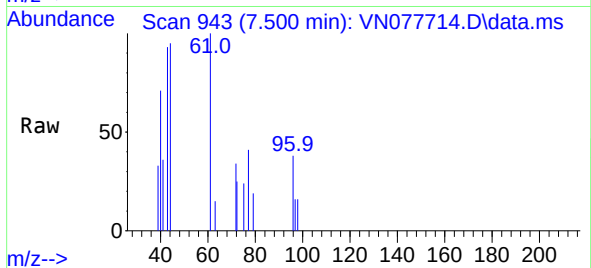




#25
2-Butanone
Concen: 1.009 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

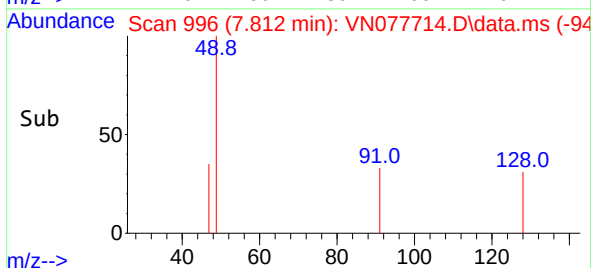
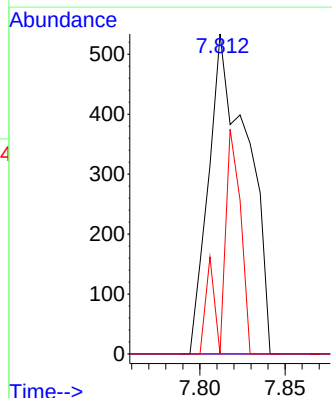
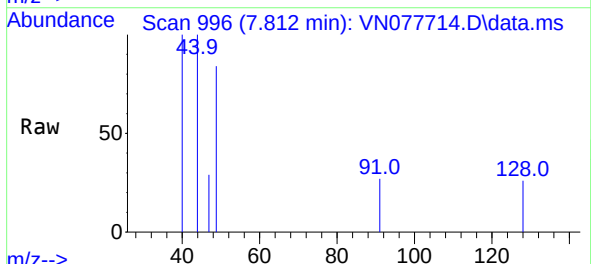
Instrument : MSVOA_N
ClientSampleId : MDL-WATER-03-QT2-2023

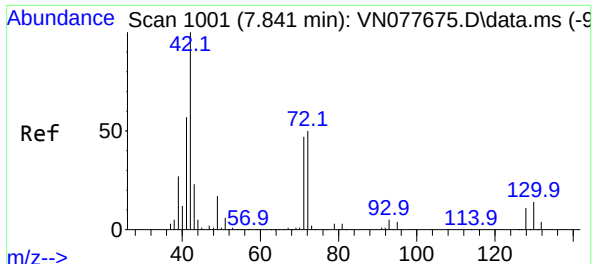
Tgt Ion: 43 Resp: 2660
Ion Ratio Lower Upper
43 100
72 63.1 30.2 45.2#



#28
Bromochloromethane
Concen: 0.247 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 49 Resp: 848
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 33.0 75.3 112.9#





#29

Tetrahydrofuran

Concen: 0.480 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2023

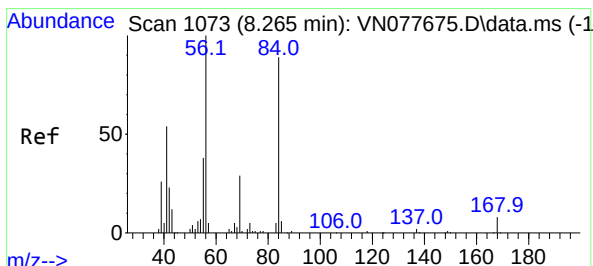
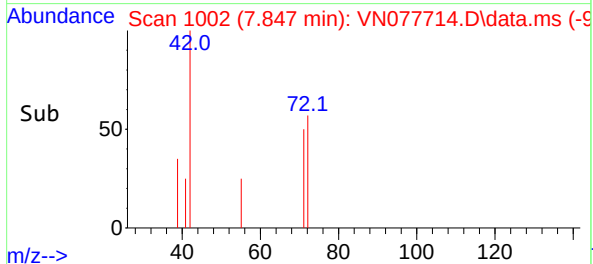
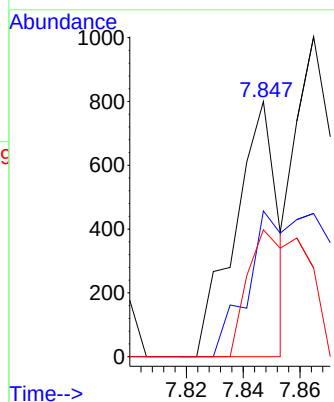
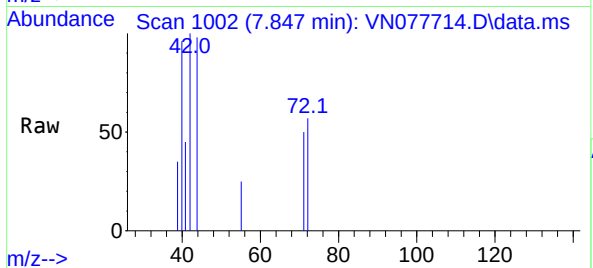
Tgt Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 110.6 49.8 74.6#

71 69.9 47.4 71.2



#31

Cyclohexane

Concen: 1.422 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.024 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

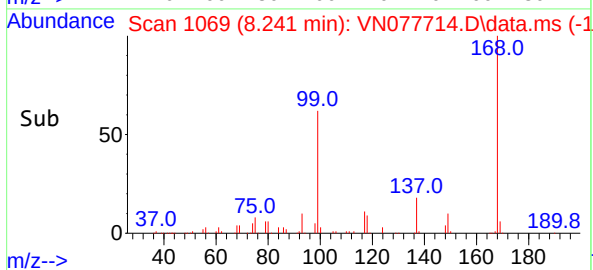
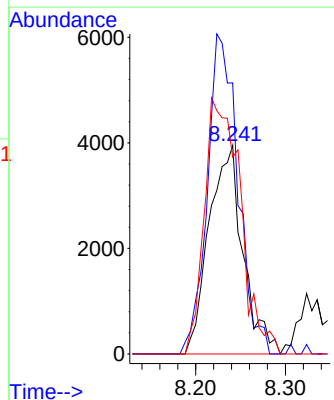
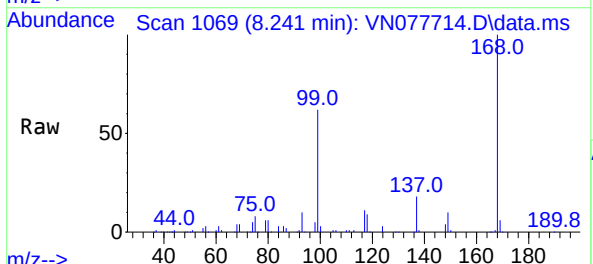
Tgt Ion: 56 Resp: 10348

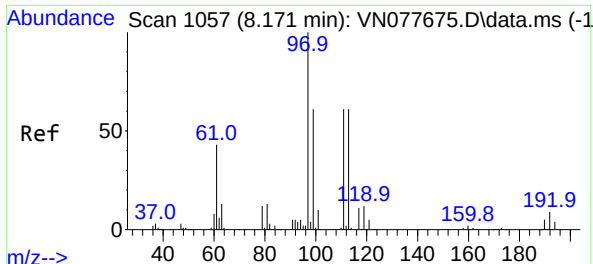
Ion Ratio Lower Upper

56 100

69 129.9 26.8 40.2#

84 94.3 81.8 122.6

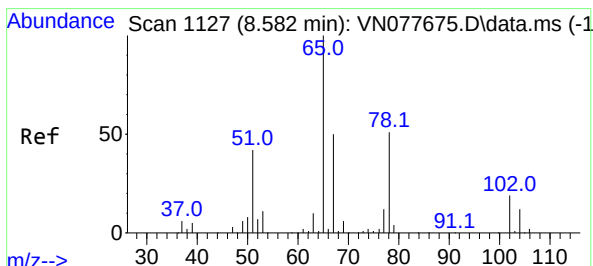
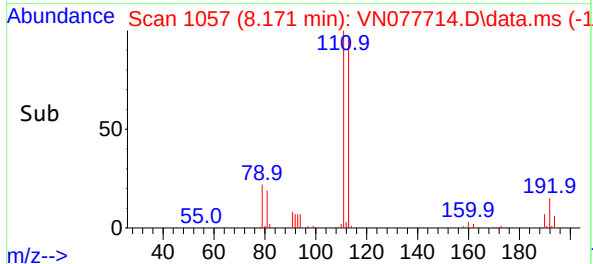
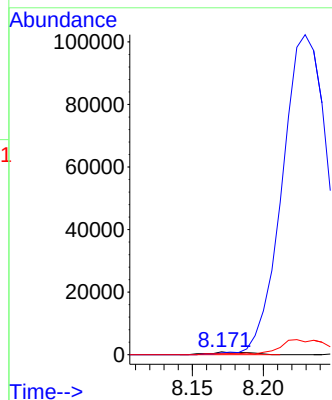
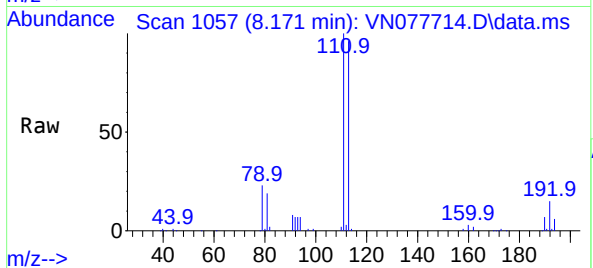




#32
1,1,1-Trichloroethane
Concen: 0.218 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

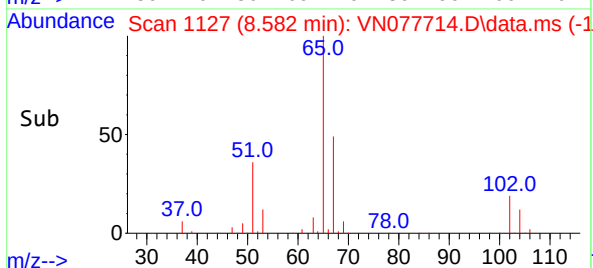
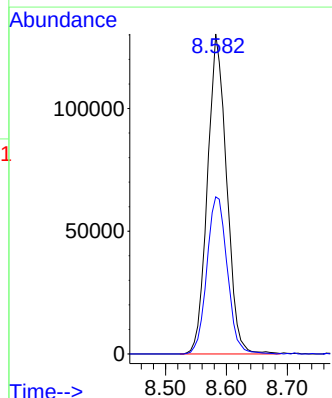
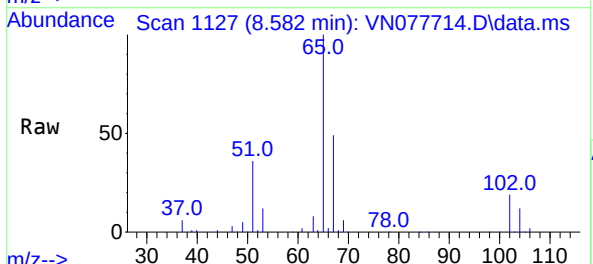
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

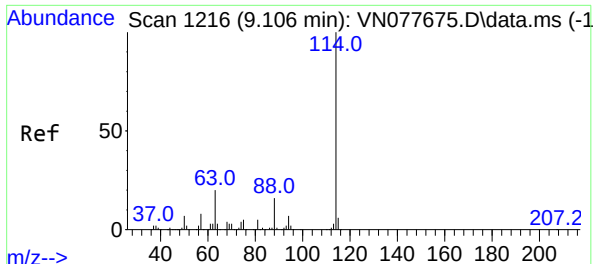
Tgt Ion: 97 Resp: 1620
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 0.0 34.7 52.1#



#33
1,2-Dichloroethane-d4
Concen: 53.177 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 65 Resp: 284748
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2023

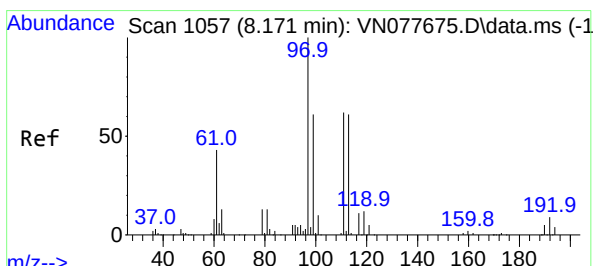
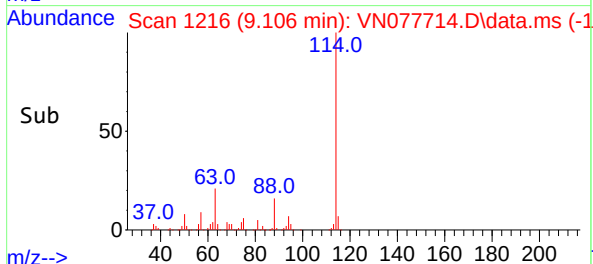
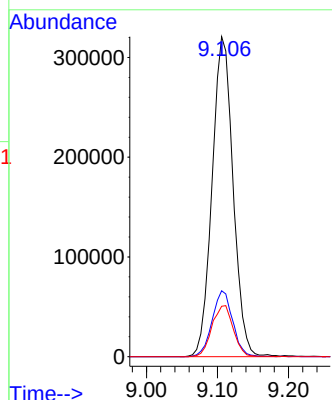
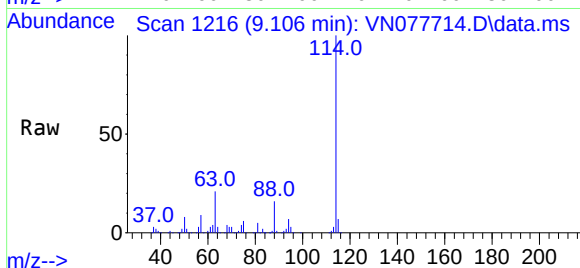
Tgt Ion:114 Resp: 657380

Ion Ratio Lower Upper

114 100

63 20.6 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.936 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

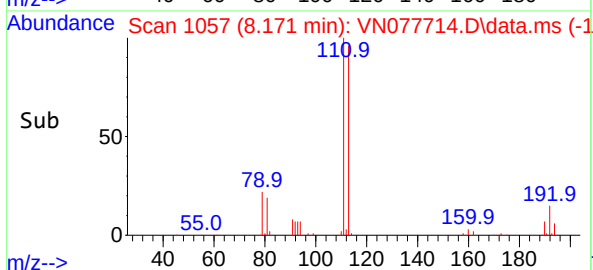
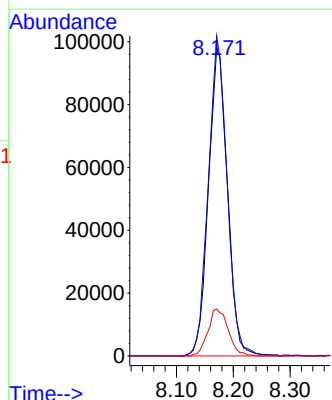
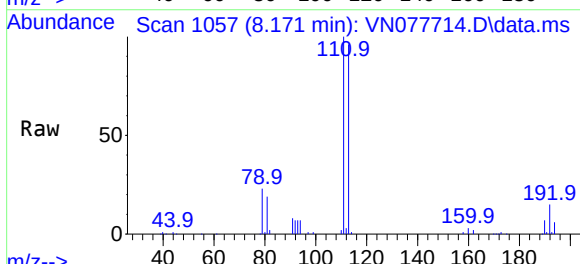
Tgt Ion:113 Resp: 226921

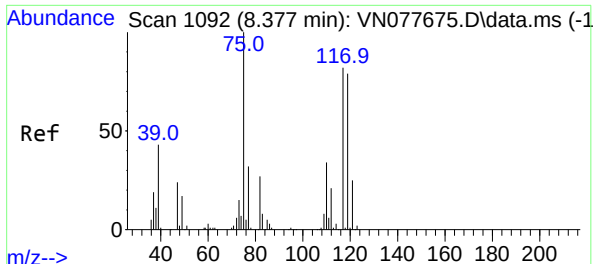
Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

192 16.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 0.237 ug/l

RT: 8.382 min Scan# 1092

Delta R.T. 0.005 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2023

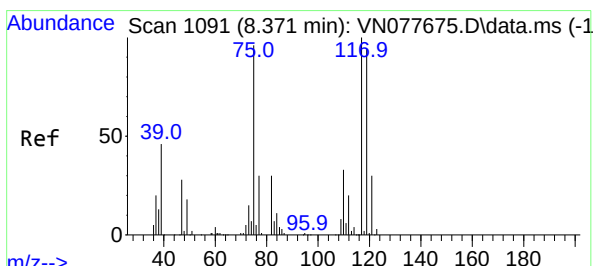
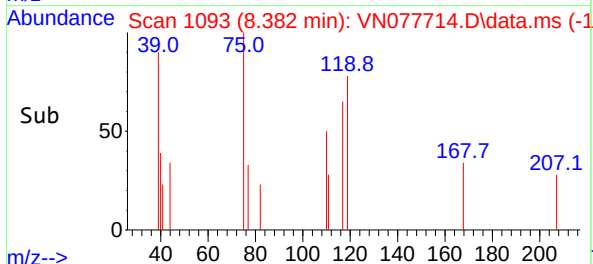
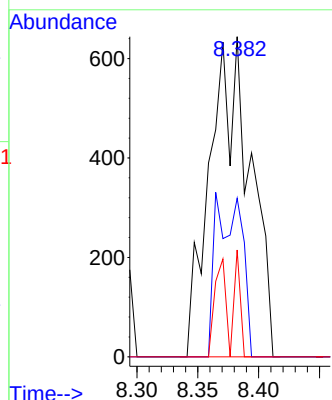
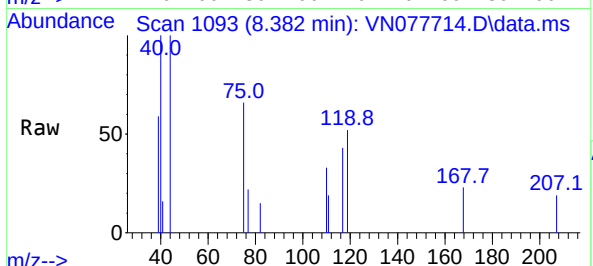
Tgt Ion: 75 Resp: 1485

Ion Ratio Lower Upper

75 100

110 32.4 19.1 57.3

77 13.4 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.428 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.142 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

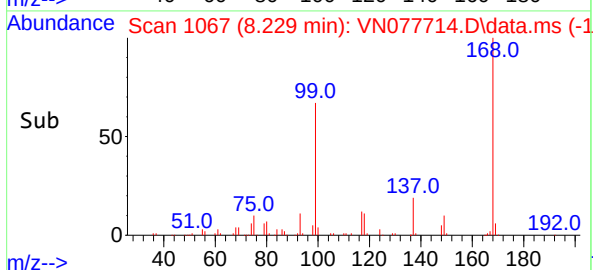
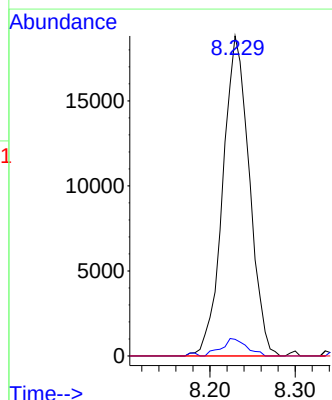
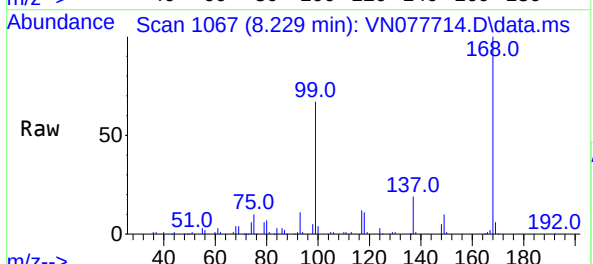
Tgt Ion: 117 Resp: 40697

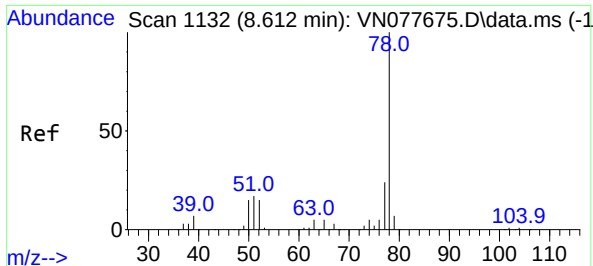
Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

121 0.0 23.3 34.9#





#40

Benzene

Concen: 0.228 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

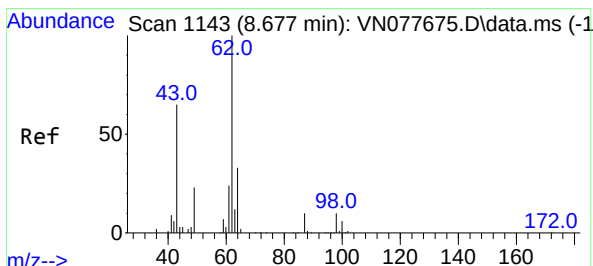
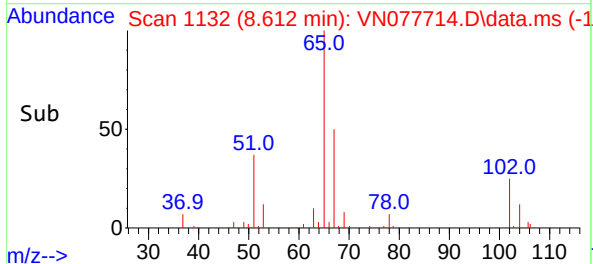
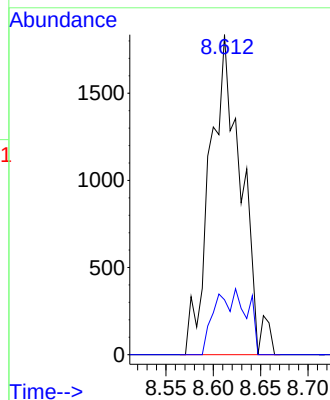
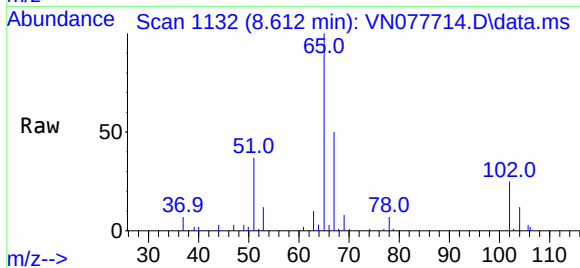
MDL-WATER-03-QT2-2023

Tgt Ion: 78 Resp: 4213

Ion Ratio Lower Upper

78 100

77 17.2 19.0 28.6#



#42

1,2-Dichloroethane

Concen: 0.279 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN077714.D

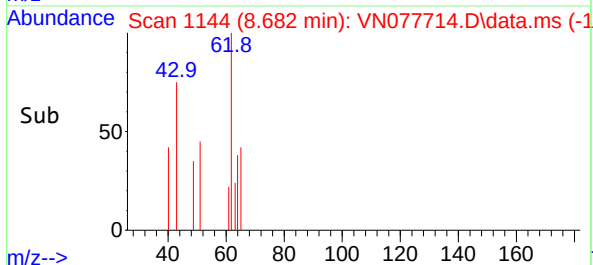
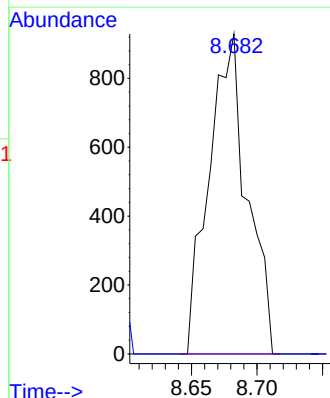
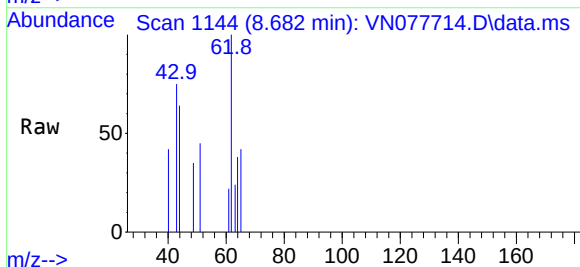
Acq: 17 May 2023 15:20

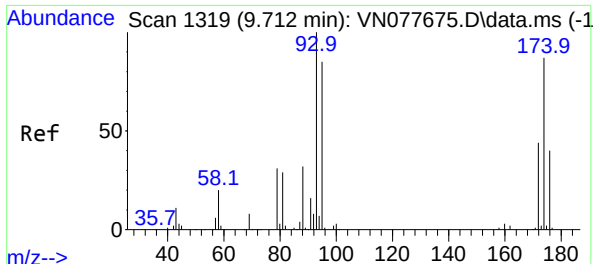
Tgt Ion: 62 Resp: 1878

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

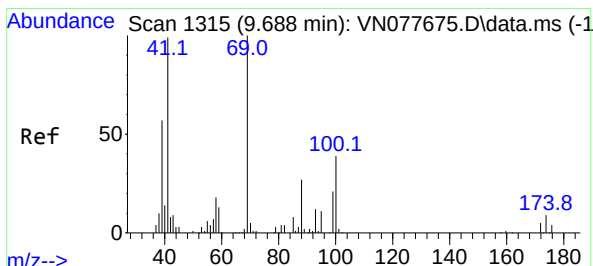
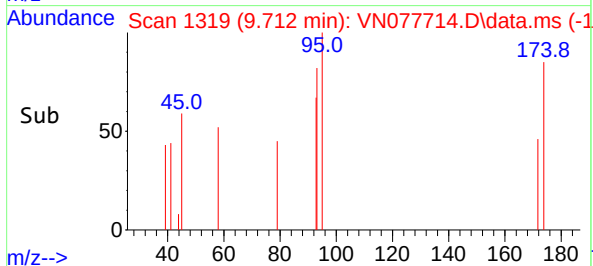
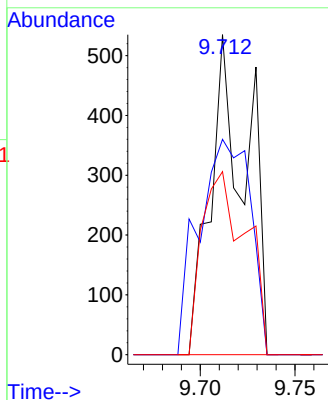
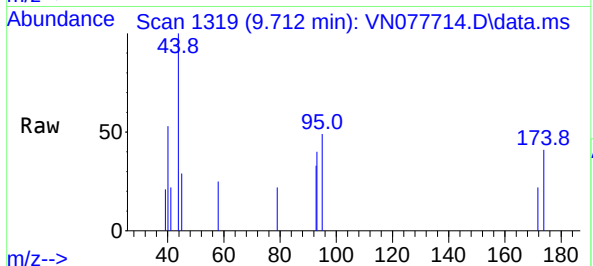




#46
Dibromomethane
Concen: 0.208 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

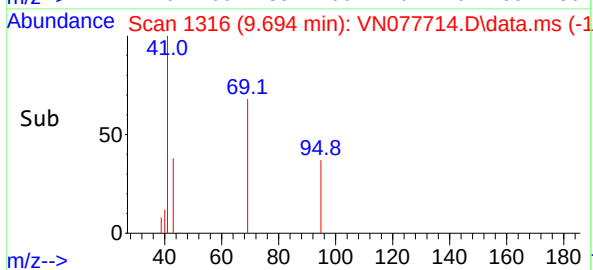
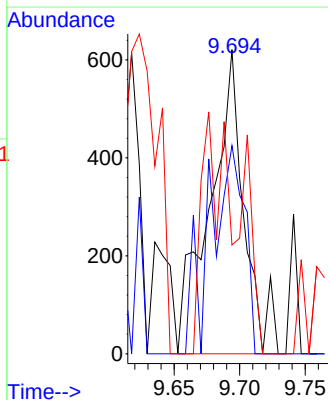
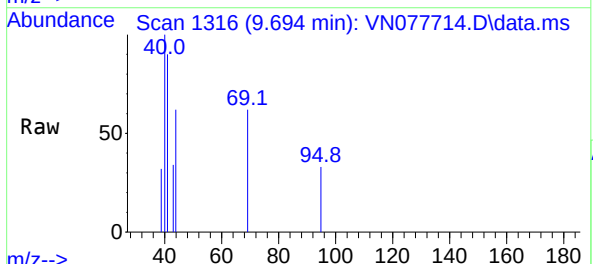
Instrument : MSVOA_N
ClientSampleId : MDL-WATER-03-QT2-2023

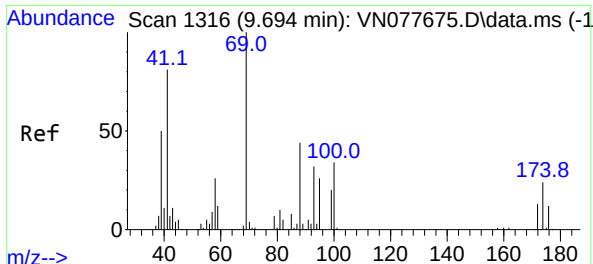
Tgt Ion: 93 Resp: 701
Ion Ratio Lower Upper
93 100
95 97.4 63.8 95.8#
174 70.5 65.6 98.4



#48
Methyl methacrylate
Concen: 0.259 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 41 Resp: 1122
Ion Ratio Lower Upper
41 100
69 70.5 90.4 135.6#
39 82.3 54.6 81.8#

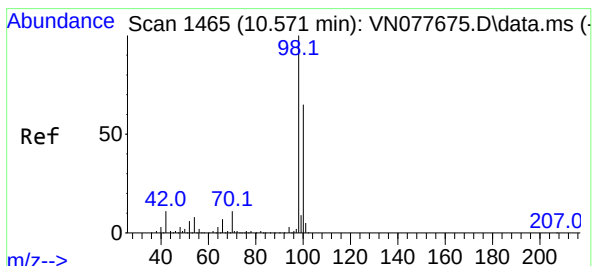
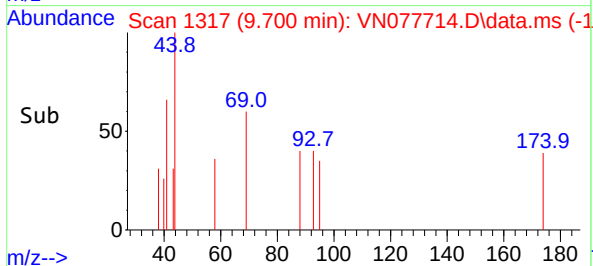
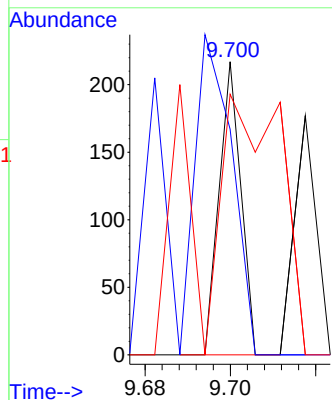
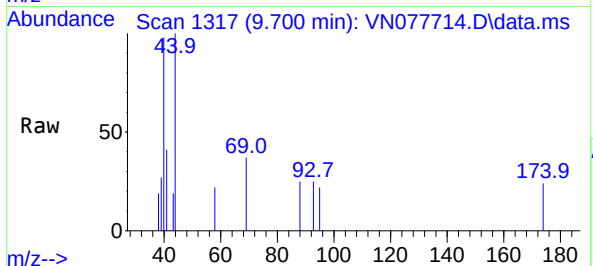




#49
1,4-Dioxane
Concen: 0.942 ug/l
RT: 9.700 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

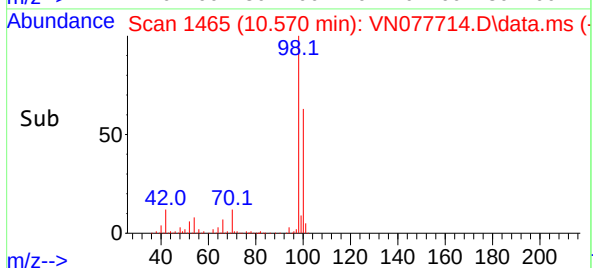
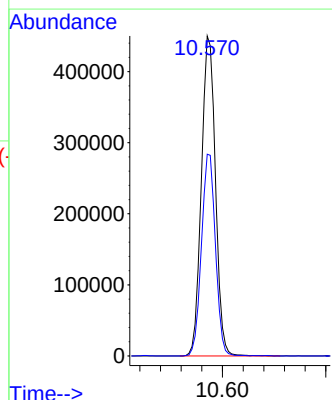
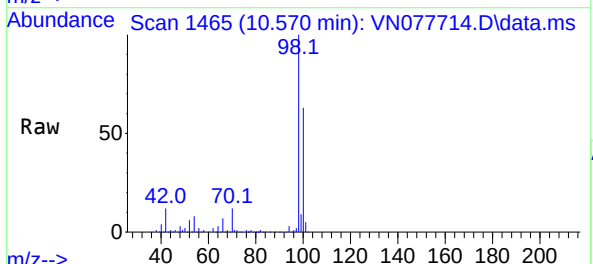
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

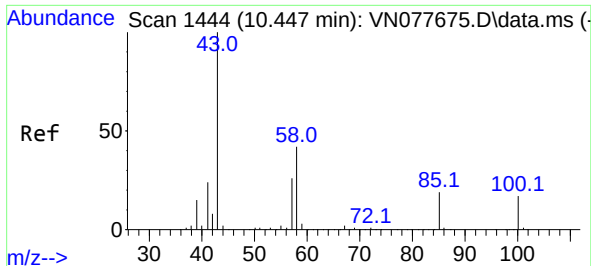
Tgt Ion: 88 Resp: 77
Ion Ratio Lower Upper
88 100
43 279.2 17.0 25.6#
58 242.9 47.0 70.4#



#50
Toluene-d8
Concen: 51.434 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 98 Resp: 848646
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.964 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

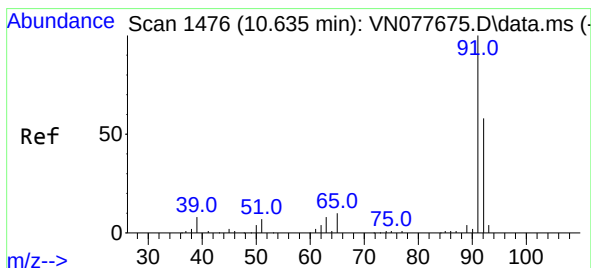
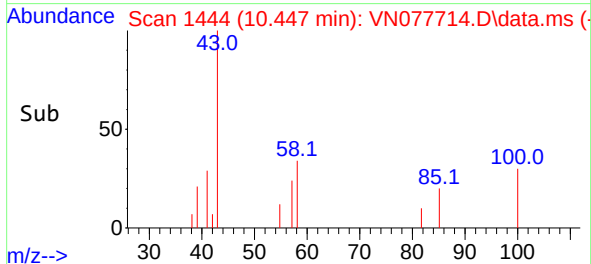
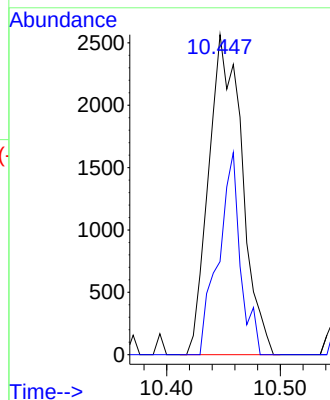
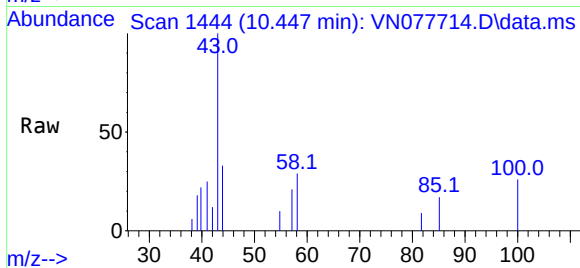
MDL-WATER-03-QT2-2023

Tgt Ion: 43 Resp: 5231

Ion Ratio Lower Upper

43 100

58 41.7 36.6 54.8



#52

Toluene

Concen: 0.222 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN077714.D

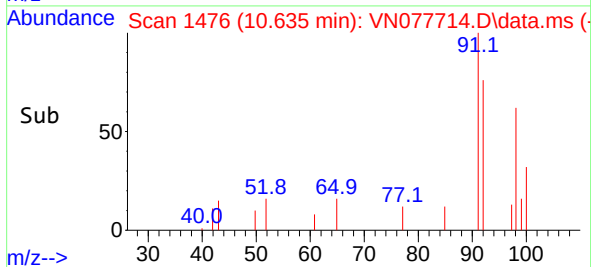
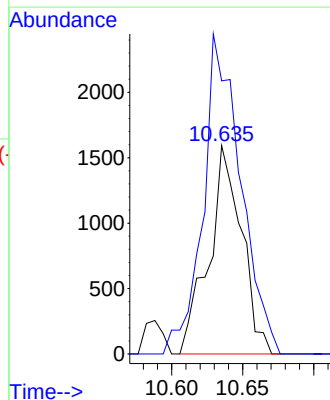
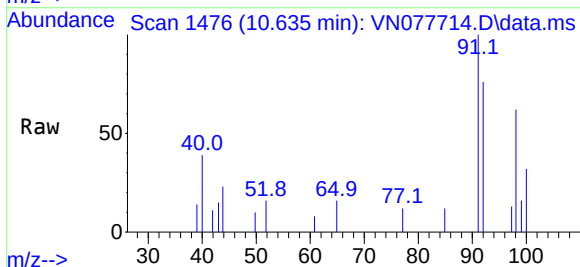
Acq: 17 May 2023 15:20

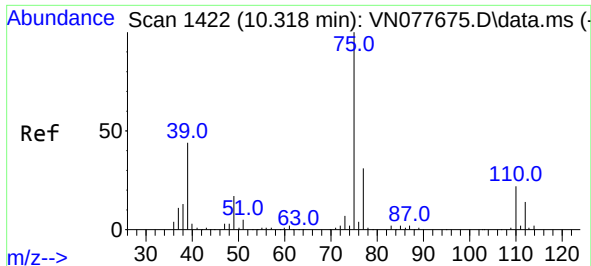
Tgt Ion: 92 Resp: 2557

Ion Ratio Lower Upper

92 100

91 176.0 137.4 206.0

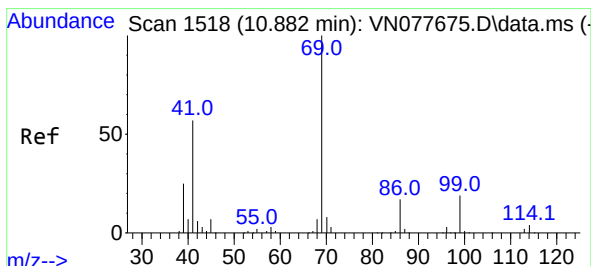
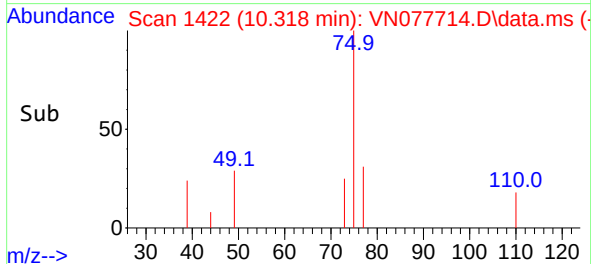
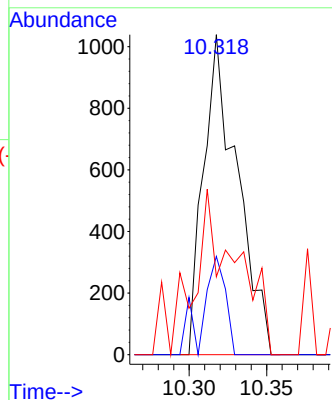
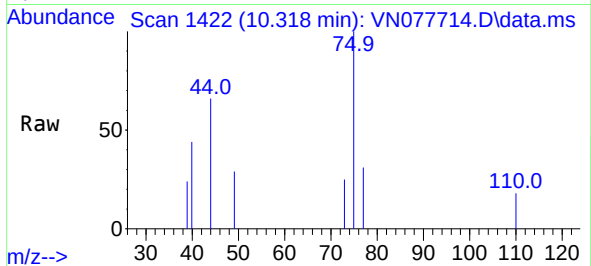




#54
 cis-1,3-Dichloropropene
 Concen: 0.209 ug/l
 RT: 10.318 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: VN077714.D
 Acq: 17 May 2023 15:20

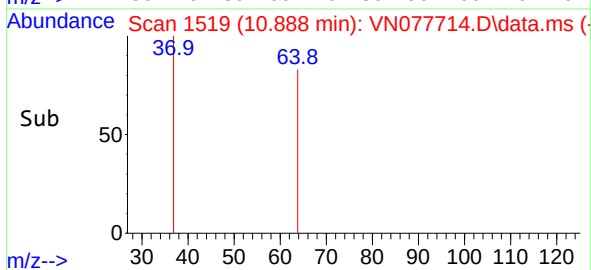
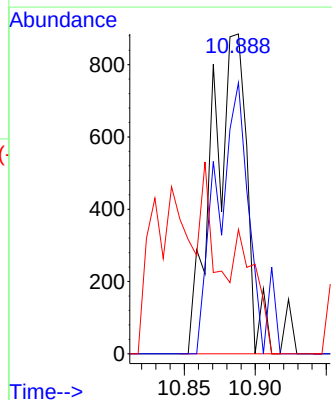
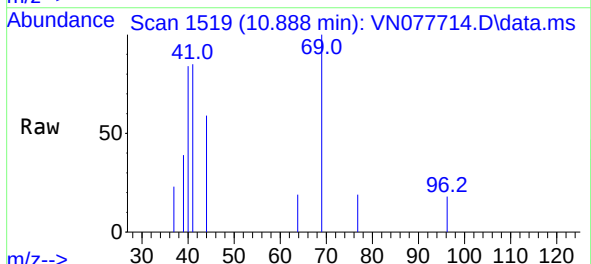
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2023

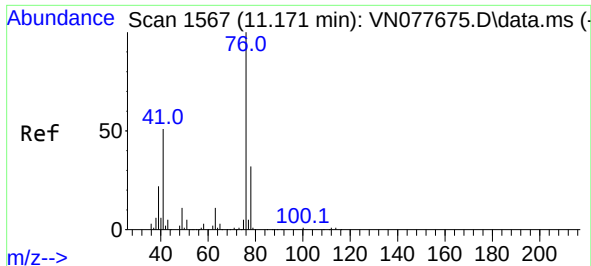
Tgt Ion:	75	Resp:	1574
Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.1	39.1
39	24.4	31.6	47.4#



#56
 Ethyl methacrylate
 Concen: 0.215 ug/l
 RT: 10.888 min Scan# 1519
 Delta R.T. 0.006 min
 Lab File: VN077714.D
 Acq: 17 May 2023 15:20

Tgt Ion:	69	Resp:	1489
Ion	Ratio	Lower	Upper
69	100		
41	80.5	39.6	59.4#
39	23.3	28.6	43.0#





#57

1,3-Dichloropropane

Concen: 0.229 ug/l

RT: 11.176 min Scan# 11

Delta R.T. 0.005 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

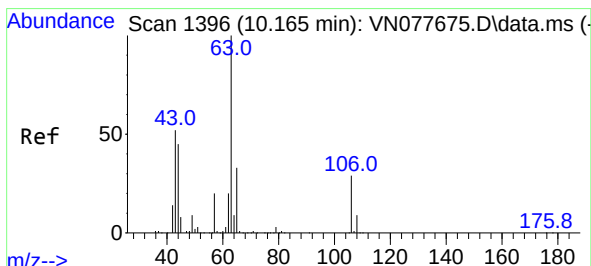
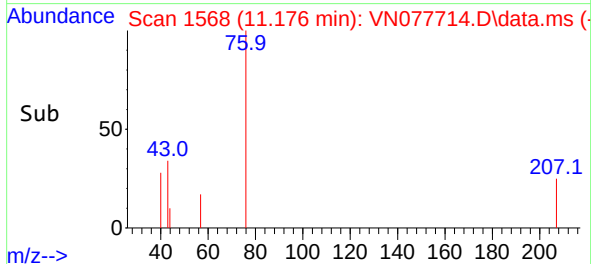
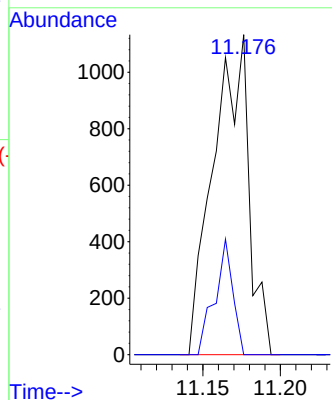
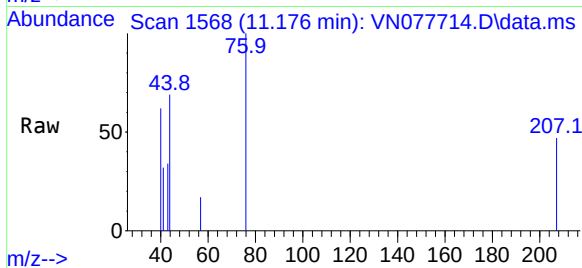
MDL-WATER-03-QT2-2023

Tgt Ion: 76 Resp: 1797

Ion Ratio Lower Upper

76 100

78 18.5 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: 1.017 ug/l

RT: 10.170 min Scan# 1397

Delta R.T. 0.005 min

Lab File: VN077714.D

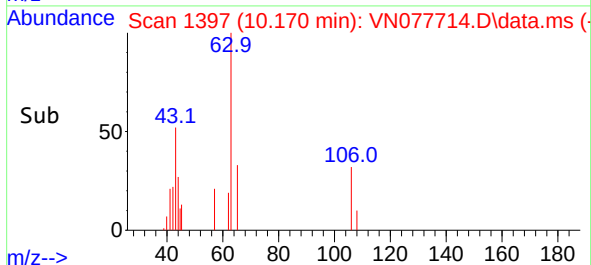
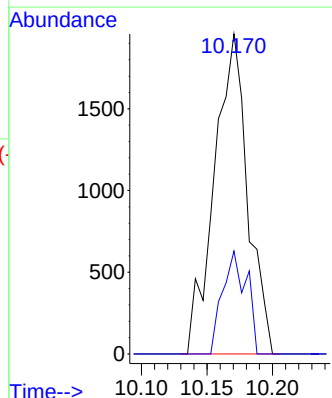
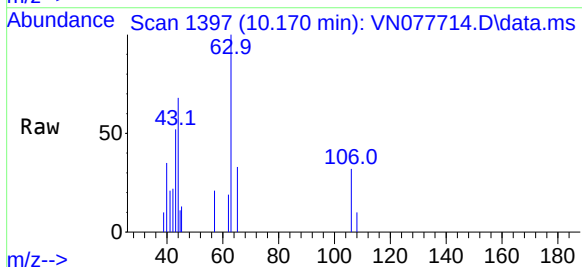
Acq: 17 May 2023 15:20

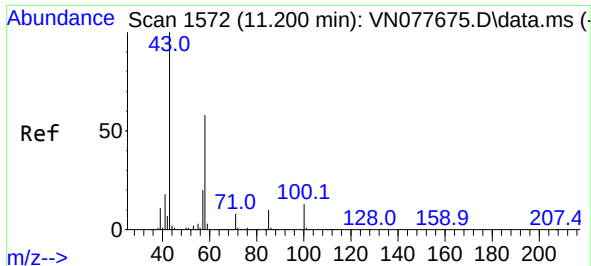
Tgt Ion: 63 Resp: 3461

Ion Ratio Lower Upper

63 100

106 23.1 26.2 39.4#





#59

2-Hexanone

Concen: 1.095 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

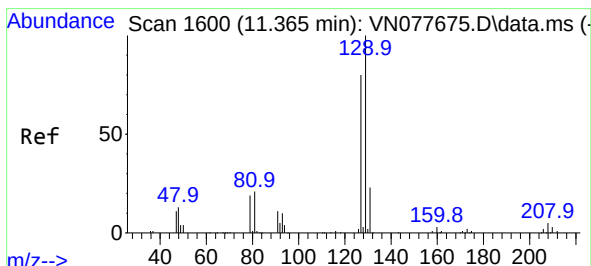
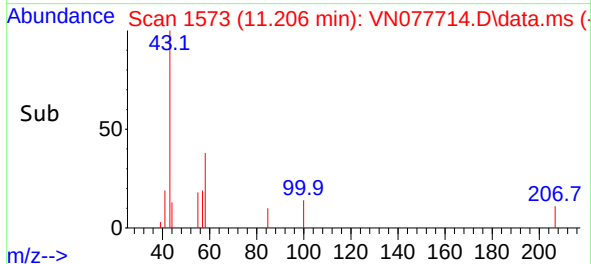
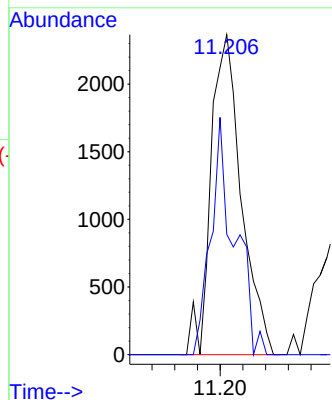
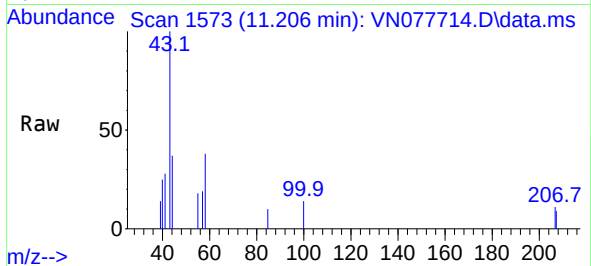
MDL-WATER-03-QT2-2023

Tgt Ion: 43 Resp: 4396

Ion Ratio Lower Upper

43 100

58 57.8 31.7 95.1



#60

Dibromochloromethane

Concen: 0.212 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.006 min

Lab File: VN077714.D

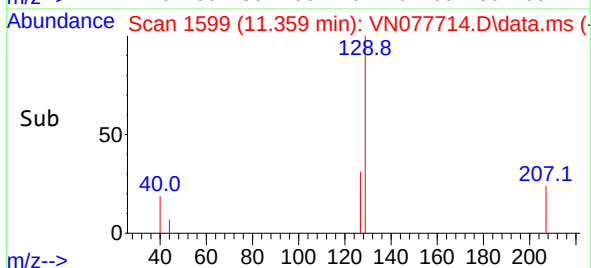
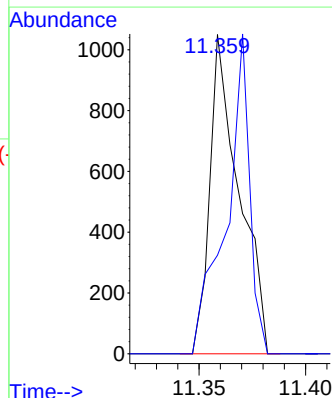
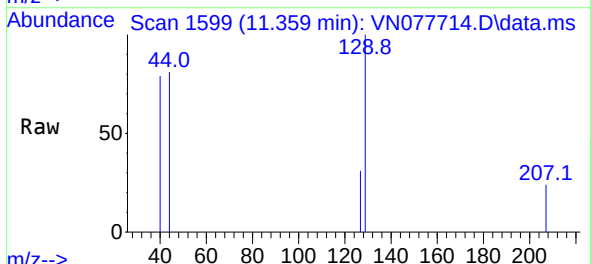
Acq: 17 May 2023 15:20

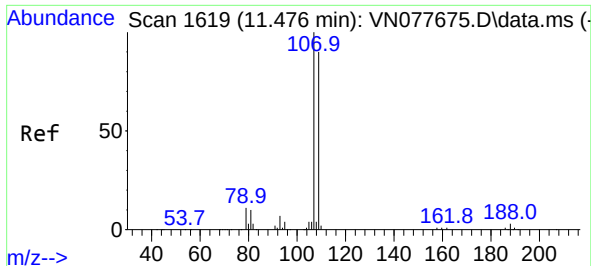
Tgt Ion: 129 Resp: 999

Ion Ratio Lower Upper

129 100

127 80.1 38.6 116.0

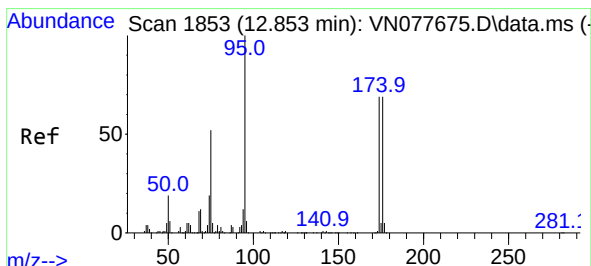
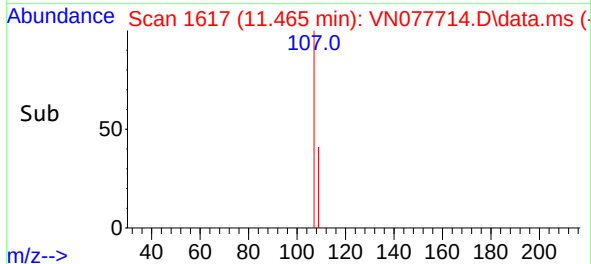
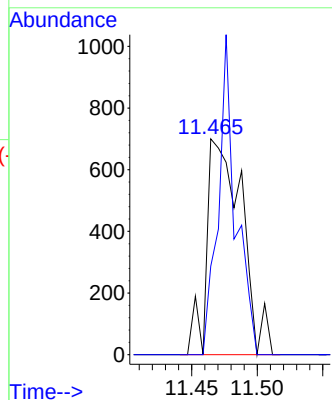
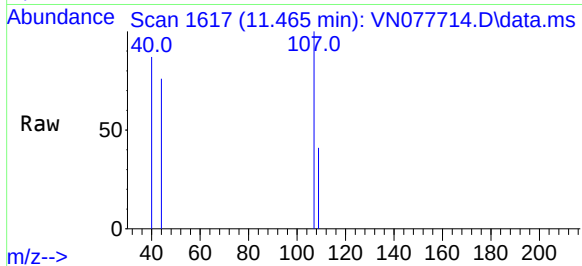




#61
1,2-Dibromoethane
Concen: 0.286 ug/l
RT: 11.465 min Scan# 1107
Delta R.T. -0.011 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

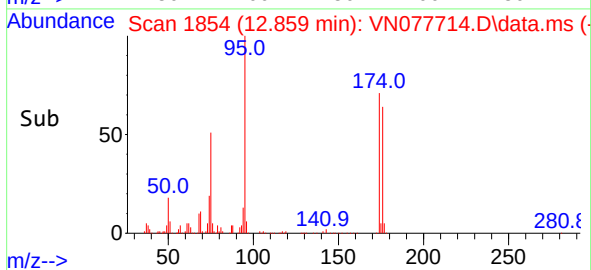
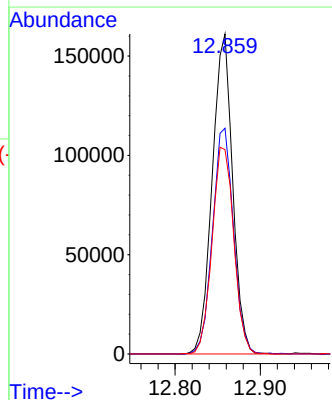
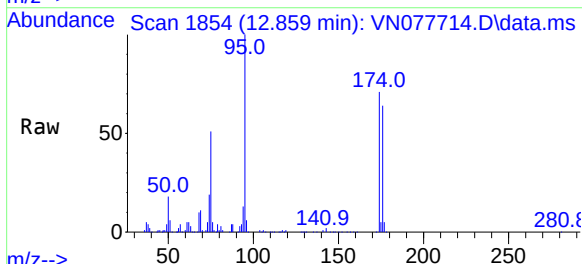
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

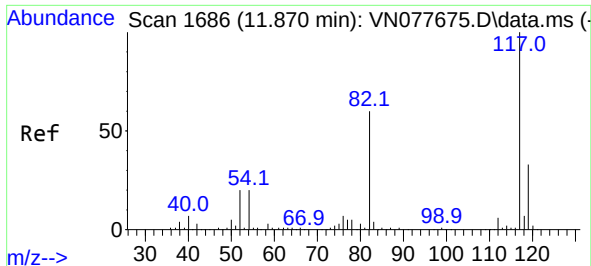
Tgt Ion:107 Resp: 1303
Ion Ratio Lower Upper
107 100
109 73.6 76.6 114.8#



#62
4-Bromofluorobenzene
Concen: 45.933 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 95 Resp: 267668
Ion Ratio Lower Upper
95 100
174 72.8 0.0 143.8
176 68.7 0.0 135.8

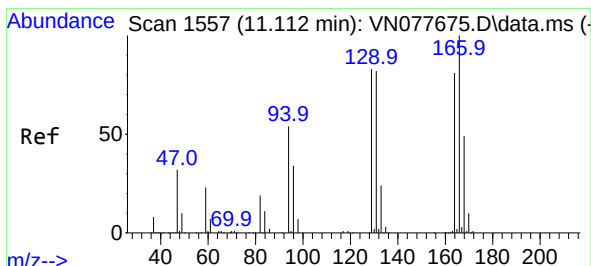
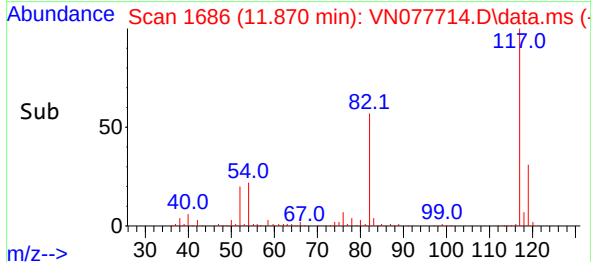
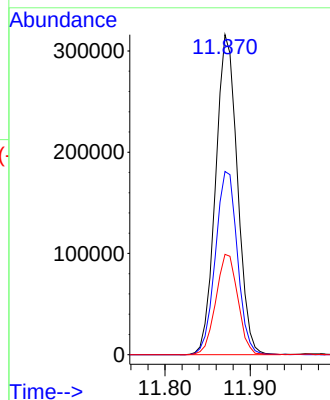
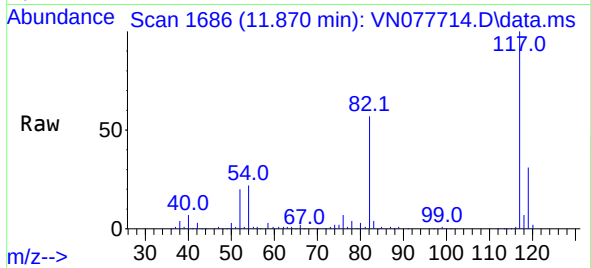




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1177
Delta R.T. 0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

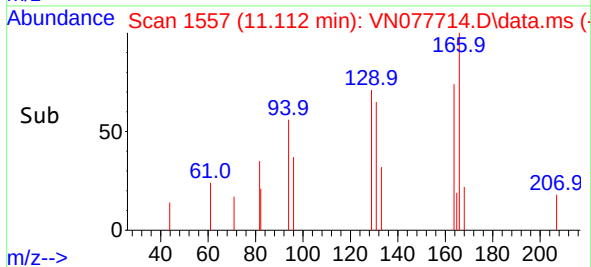
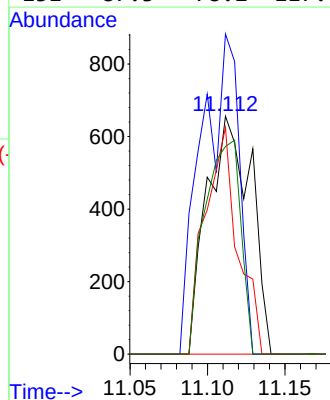
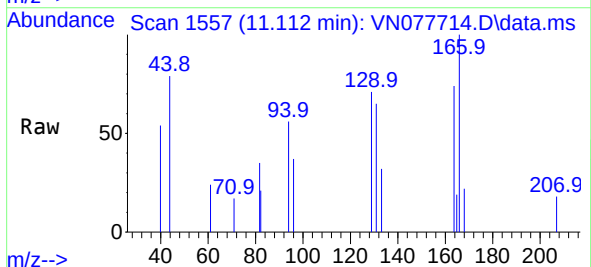
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

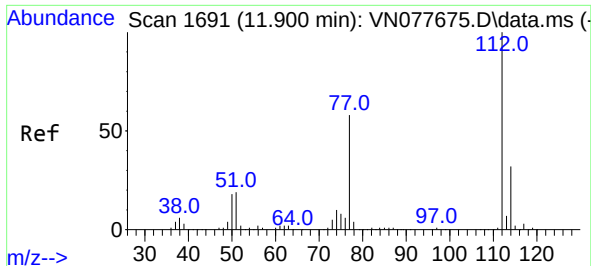
Tgt Ion:117 Resp: 563085
Ion Ratio Lower Upper
117 100
82 57.2 44.0 66.0
119 31.3 25.6 38.4



#64
Tetrachloroethene
Concen: 0.328 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:164 Resp: 1291
Ion Ratio Lower Upper
164 100
166 134.6 101.4 152.0
129 95.3 82.4 123.6
131 87.3 78.2 117.4

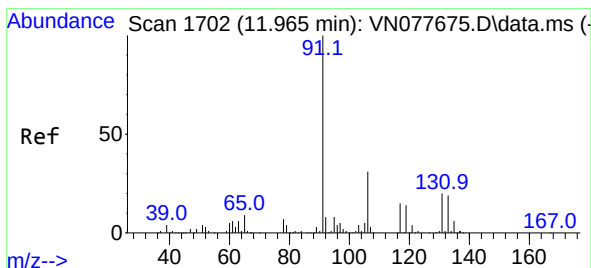
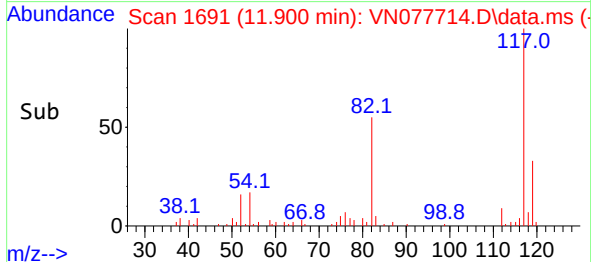
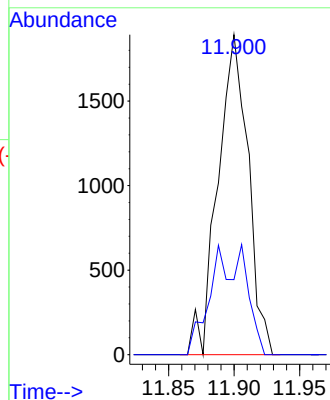
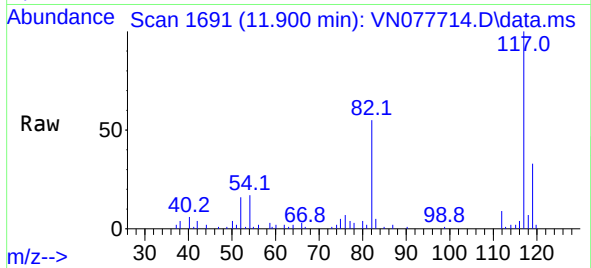




#65
Chlorobenzene
Concen: 0.249 ug/l
RT: 11.900 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

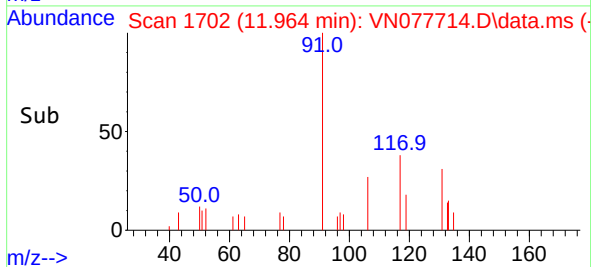
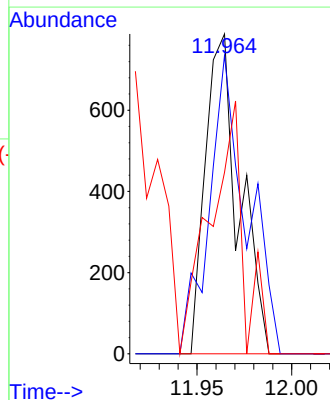
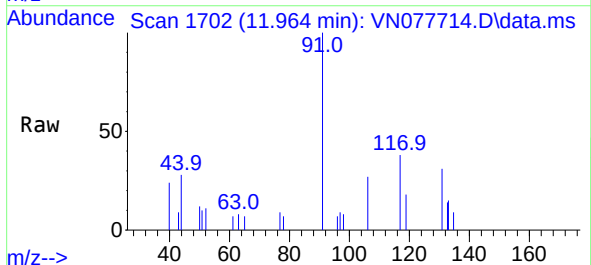
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

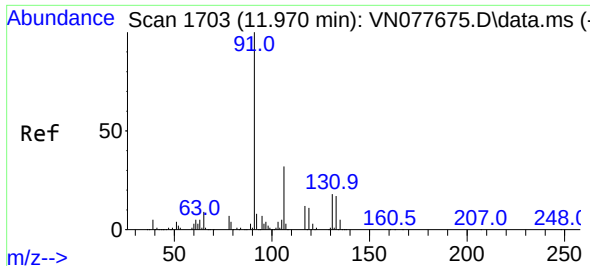
Tgt Ion:112 Resp: 3041
Ion Ratio Lower Upper
112 100
114 23.5 25.0 37.4#



#66
1,1,1,2-Tetrachloroethane
Concen: 0.230 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.001 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:131 Resp: 973
Ion Ratio Lower Upper
131 100
133 103.7 46.4 139.1
119 0.0 34.1 102.2#

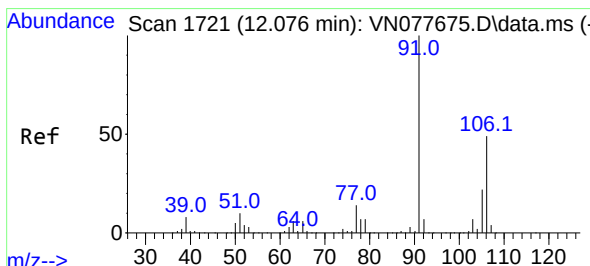
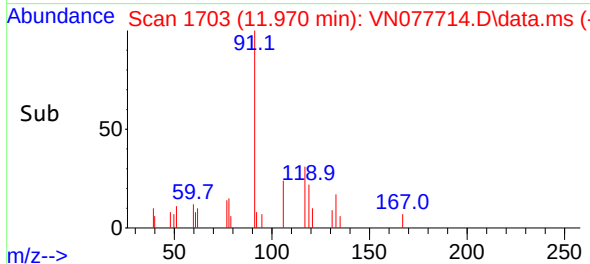
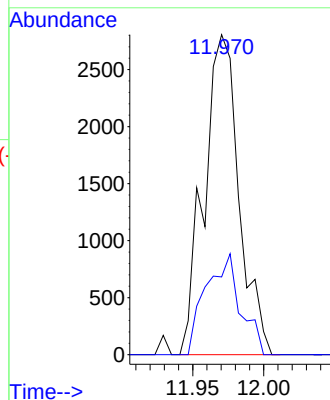
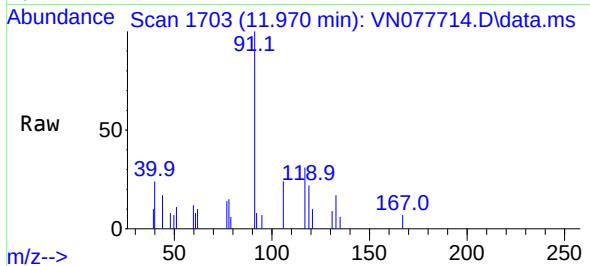




#67
Ethyl Benzene
Concen: 0.220 ug/l
RT: 11.970 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

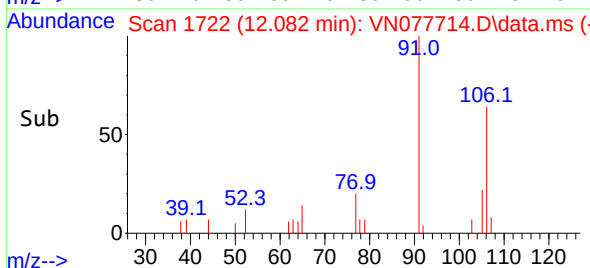
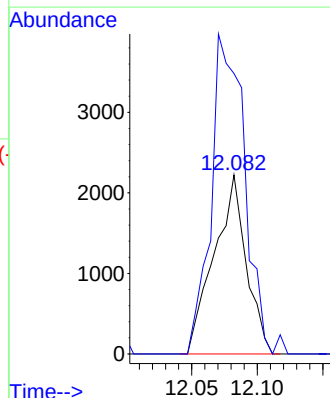
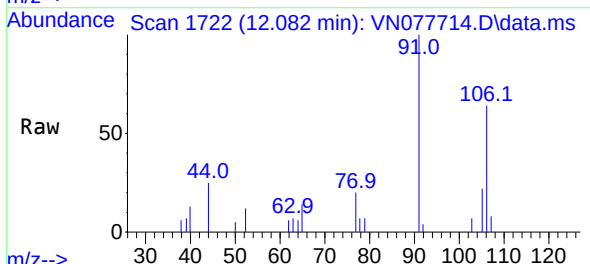
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

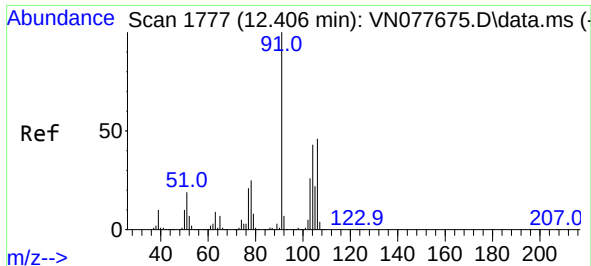
Tgt Ion: 91 Resp: 4818
Ion Ratio Lower Upper
91 100
106 24.3 25.6 38.4#



#68
m/p-Xylenes
Concen: 0.457 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 106 Resp: 3791
Ion Ratio Lower Upper
106 100
91 184.2 159.6 239.4





#69

o-Xylene

Concen: 0.206 ug/l

RT: 12.400 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

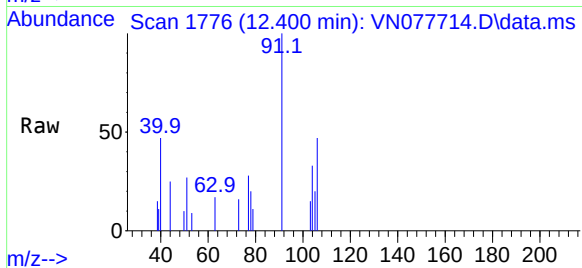
MDL-WATER-03-QT2-2023

Tgt Ion:106 Resp: 1682

Ion Ratio Lower Upper

106 100

91 201.7 105.2 315.5



Abundance

2000

1500

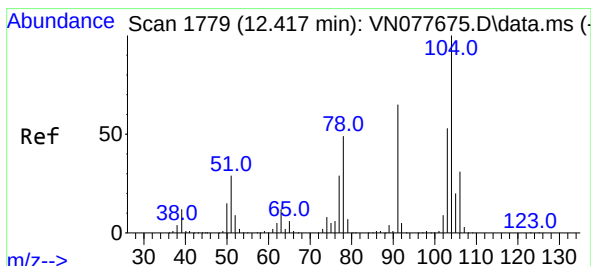
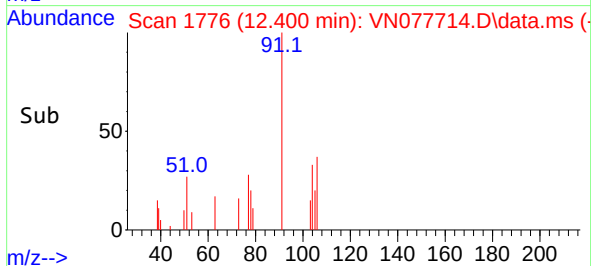
1000

500

0

Time-->

12.35 12.40 12.45



#70

Styrene

Concen: 0.239 ug/l

RT: 12.423 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

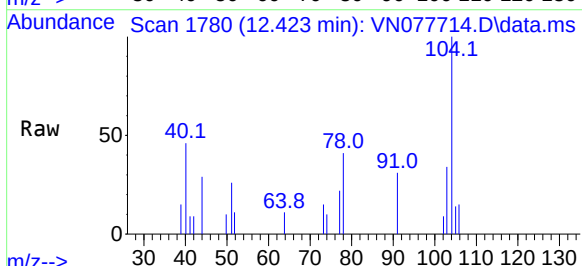
Tgt Ion:104 Resp: 3099

Ion Ratio Lower Upper

104 100

78 42.1 39.5 59.3

103 49.5 43.2 64.8



Abundance

1500

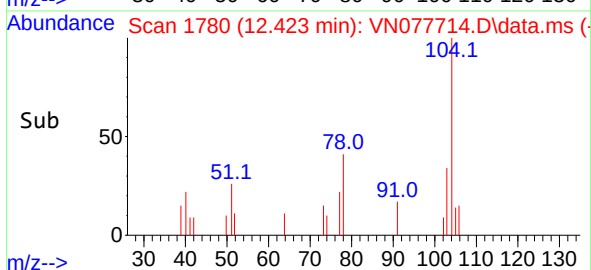
1000

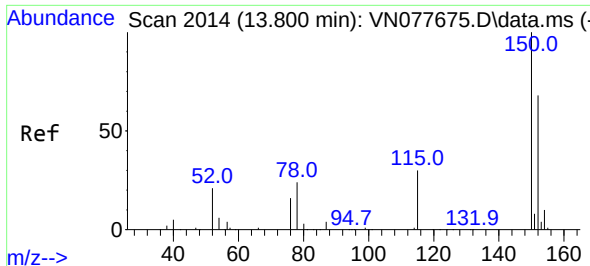
500

0

Time-->

12.35 12.40 12.45

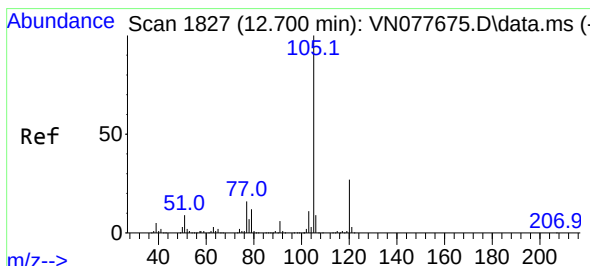
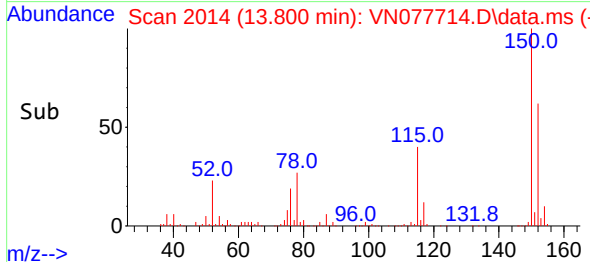
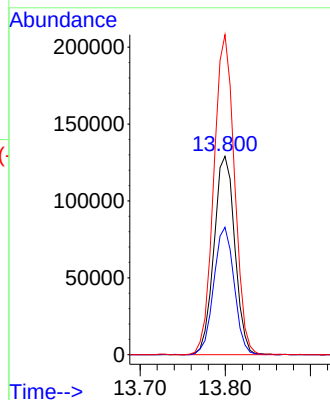
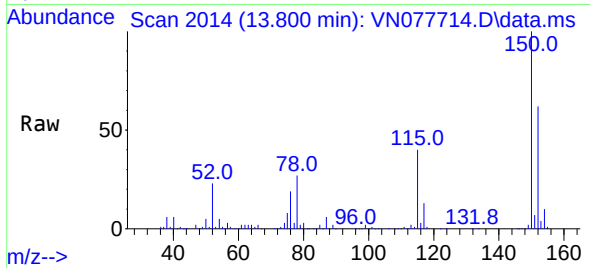




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

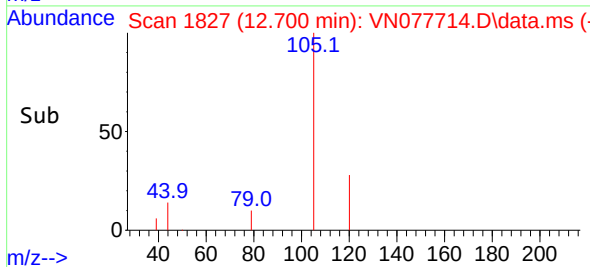
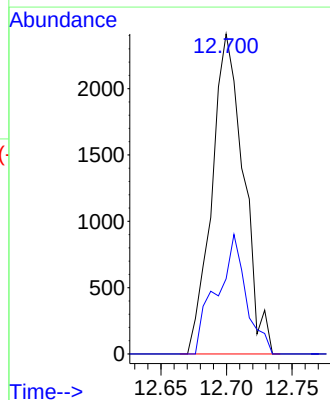
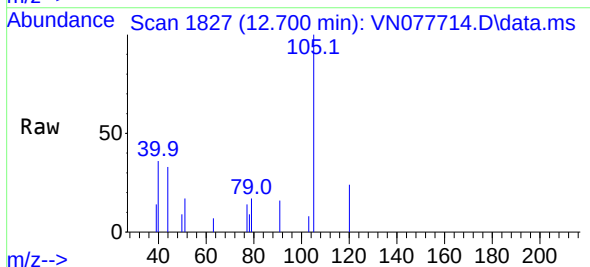
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

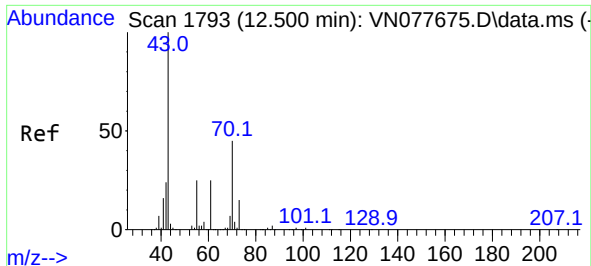
Tgt Ion:152 Resp: 219028
Ion Ratio Lower Upper
152 100
115 62.9 32.3 96.8
150 160.4 0.0 355.8



#73
Isopropylbenzene
Concen: 0.215 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

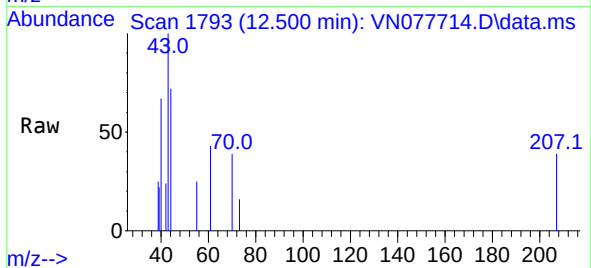
Tgt Ion:105 Resp: 4056
Ion Ratio Lower Upper
105 100
120 34.7 13.1 39.1





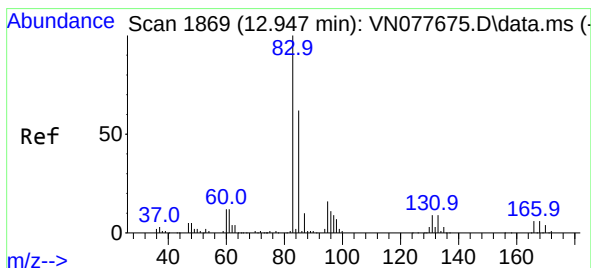
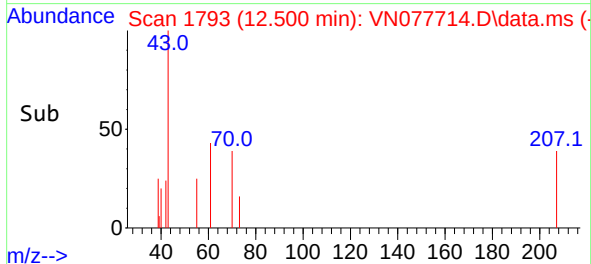
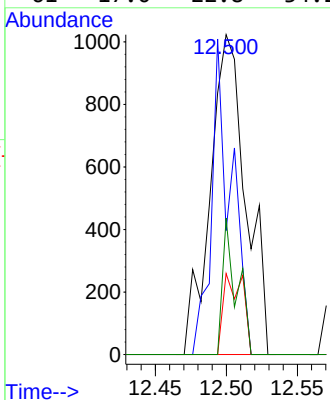
#74
N-amy1 acetate
Concen: 0.256 ug/l
RT: 12.500 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023



Tgt Ion: 43 Resp: 1789

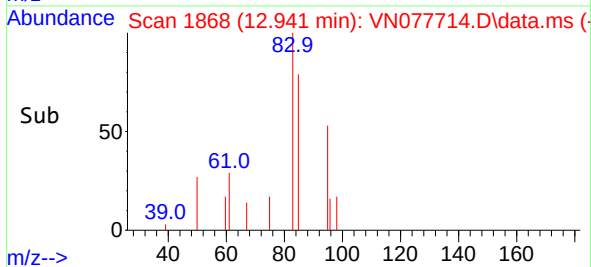
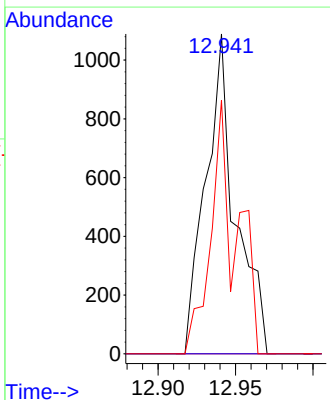
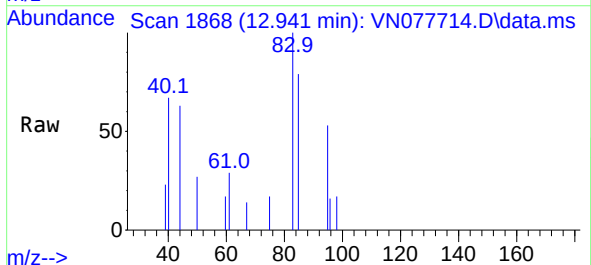
Ion	Ratio	Lower	Upper
43	100		
70	54.4	43.4	65.2
55	13.6	21.4	32.0#
61	17.0	22.8	34.2#

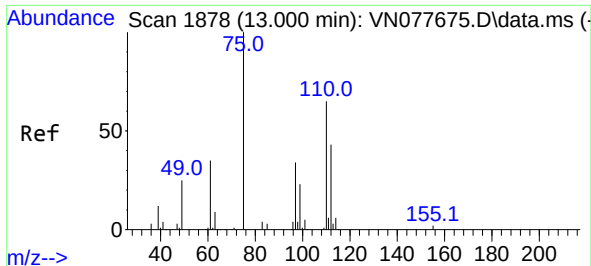


#75
1,1,2,2-Tetrachloroethane
Concen: 0.250 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 83 Resp: 1453

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	67.7	31.9	95.7

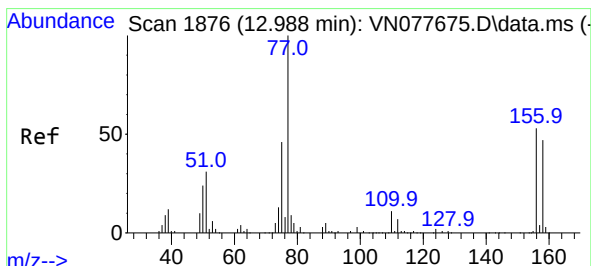
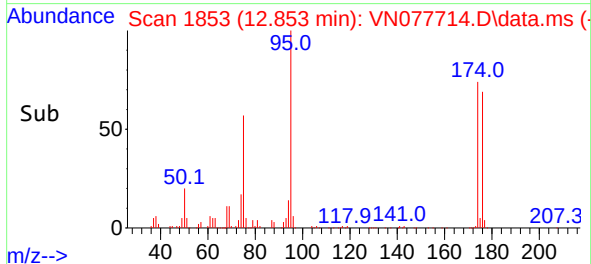
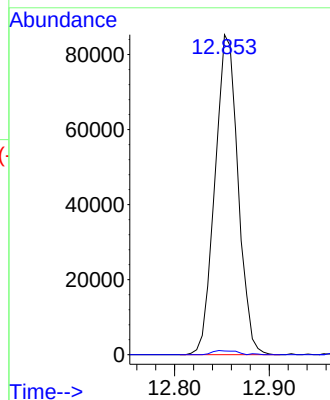
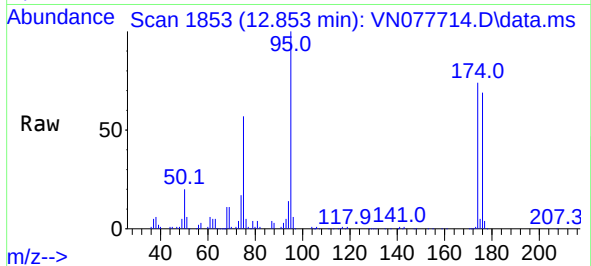




#76
1,2,3-Trichloropropane
Concen: 26.352 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.147 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

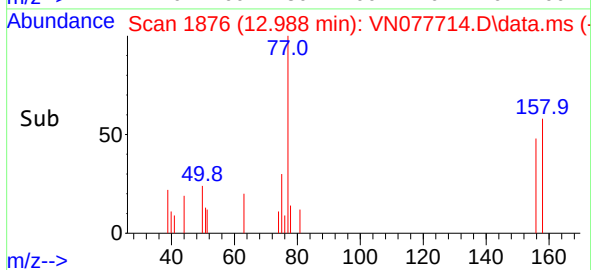
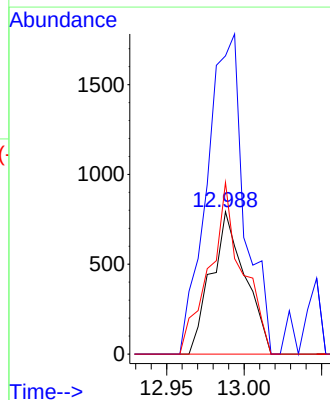
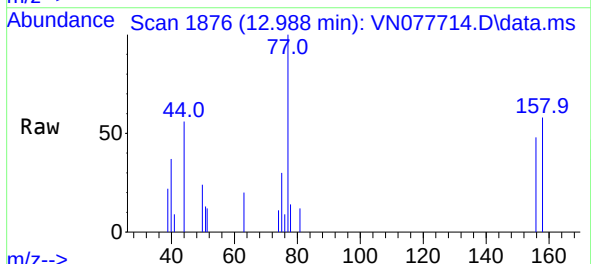
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

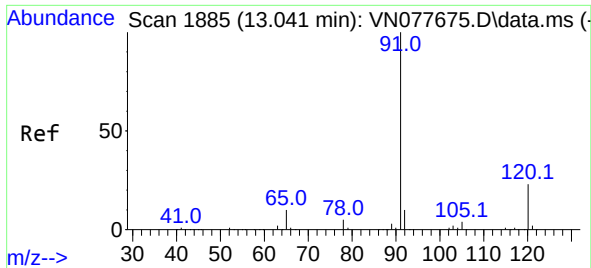
Tgt Ion: 75 Resp: 144547
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#77
Bromobenzene
Concen: 0.279 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:156 Resp: 1204
Ion Ratio Lower Upper
156 100
77 250.2 107.7 323.3
158 116.4 48.4 145.3

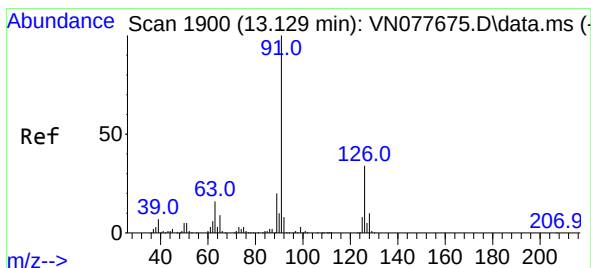
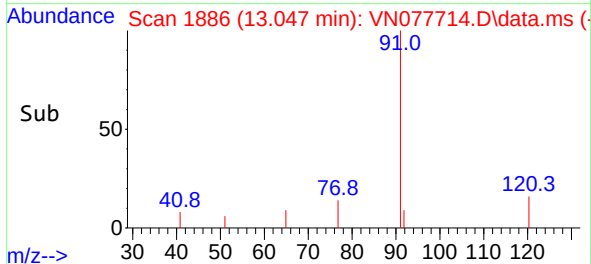
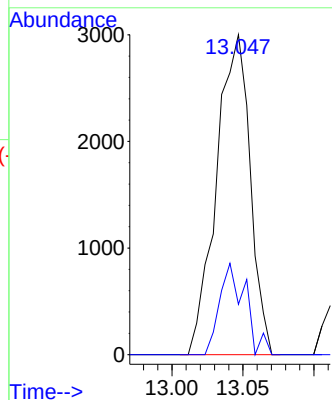
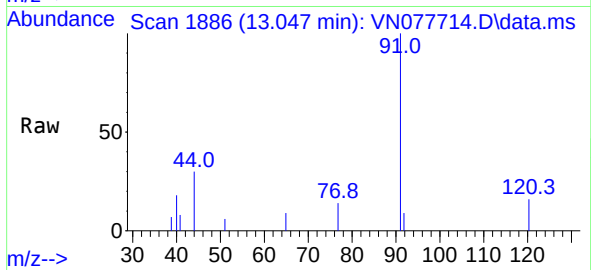




#78
n-propylbenzene
Concen: 0.222 ug/l
RT: 13.047 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

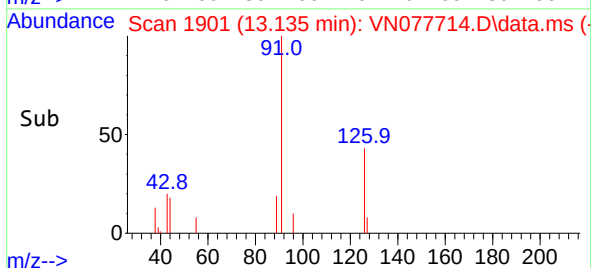
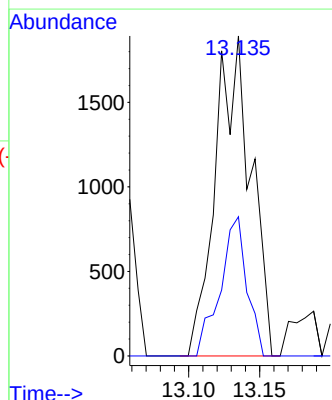
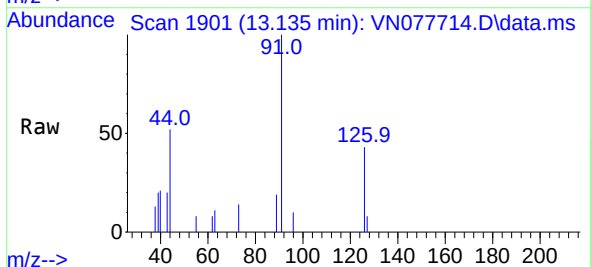
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

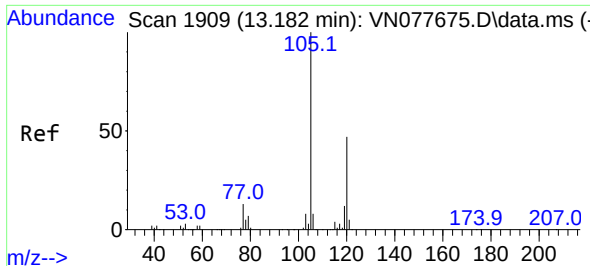
Tgt Ion: 91 Resp: 4948
Ion Ratio Lower Upper
91 100
120 21.8 11.5 34.4



#79
2-Chlorotoluene
Concen: 0.247 ug/l
RT: 13.135 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 91 Resp: 3287
Ion Ratio Lower Upper
91 100
126 32.8 16.3 48.8

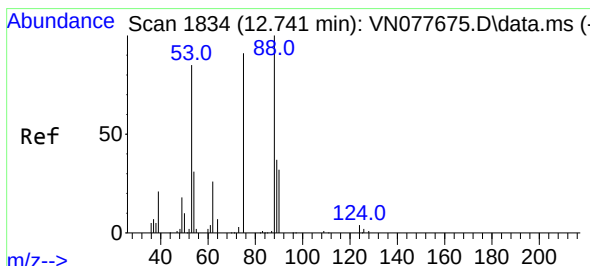
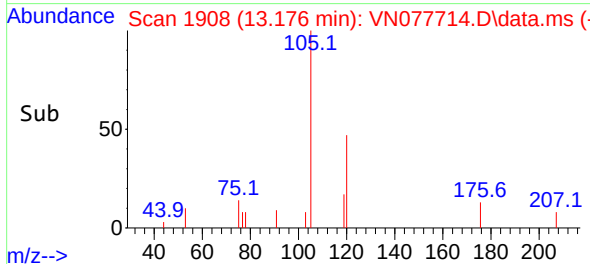
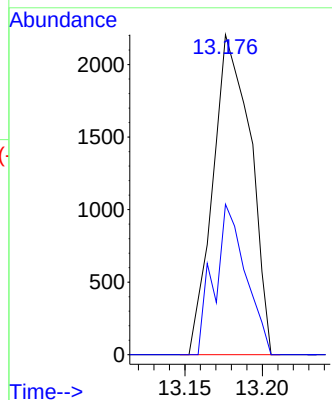
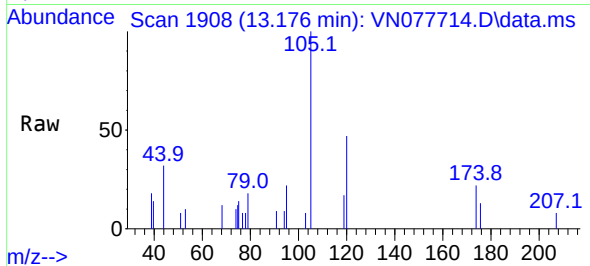




#80
1,3,5-Trimethylbenzene
Concen: 0.234 ug/l
RT: 13.176 min Scan# 1909
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

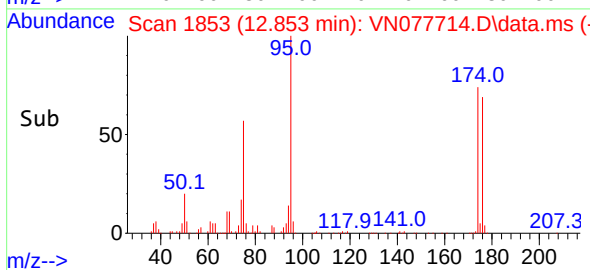
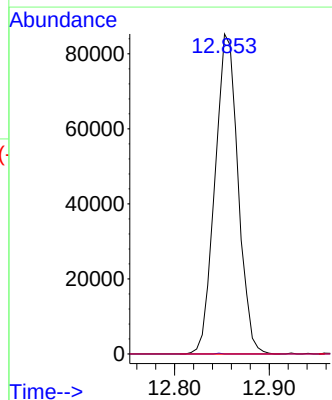
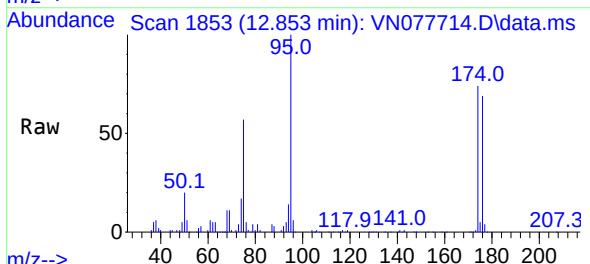
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

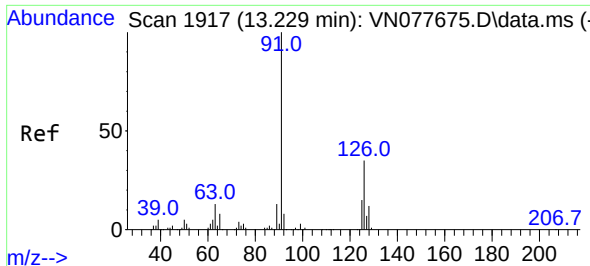
Tgt Ion:105 Resp: 3719
Ion Ratio Lower Upper
105 100
120 39.2 24.1 72.3



#81
trans-1,4-Dichloro-2-butene
Concen: 84.235 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 75 Resp: 144547
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

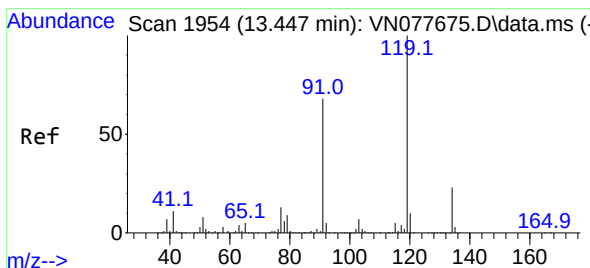
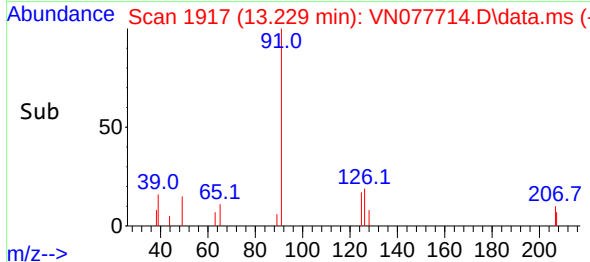
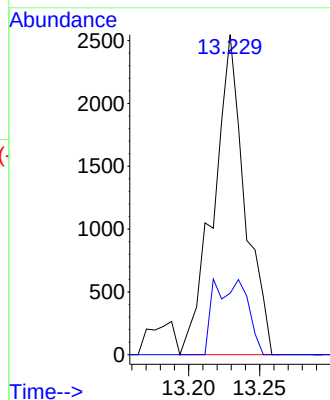
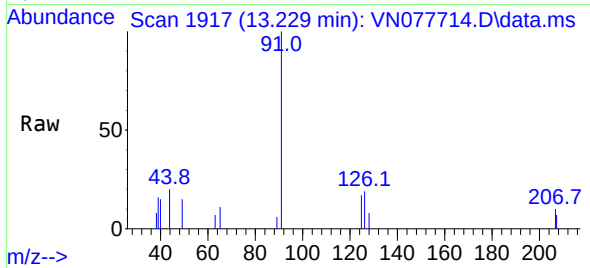




#82
4-Chlorotoluene
Concen: 0.295 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

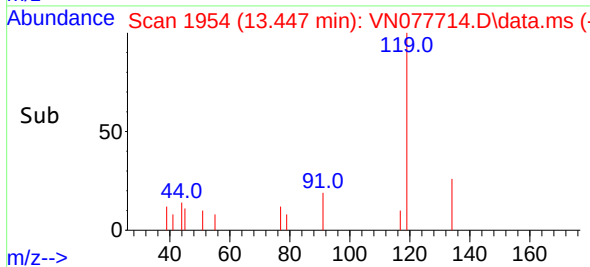
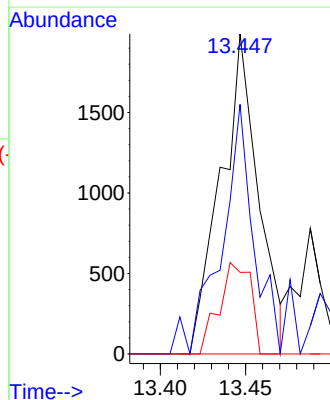
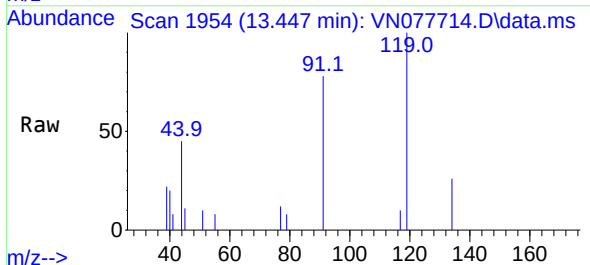
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

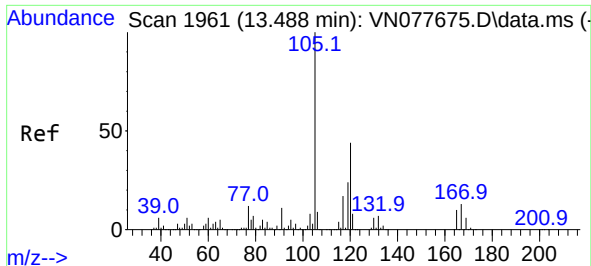
Tgt Ion: 91 Resp: 3904
Ion Ratio Lower Upper
91 100
126 25.0 16.7 50.0



#83
tert-Butylbenzene
Concen: 0.219 ug/l
RT: 13.447 min Scan# 1954
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion: 119 Resp: 3040
Ion Ratio Lower Upper
119 100
91 67.6 33.9 101.7
134 24.1 13.2 39.6

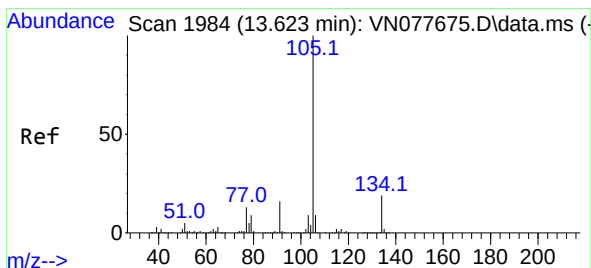
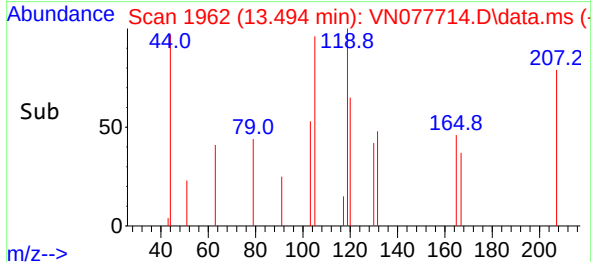
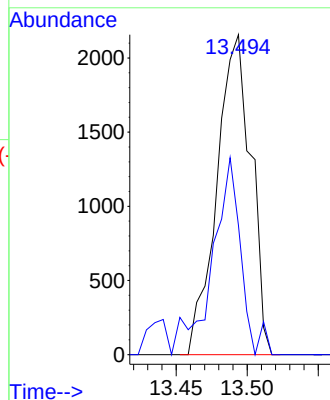
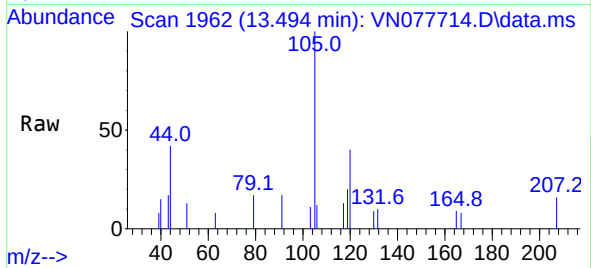




#84
1,2,4-Trimethylbenzene
Concen: 0.231 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

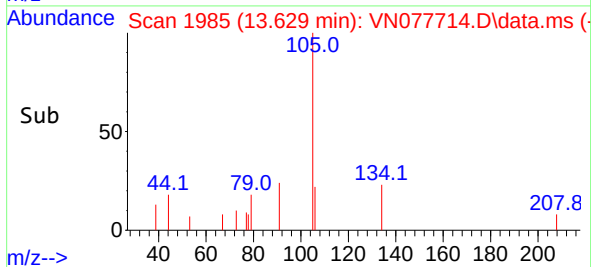
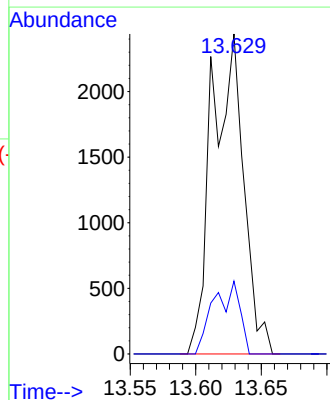
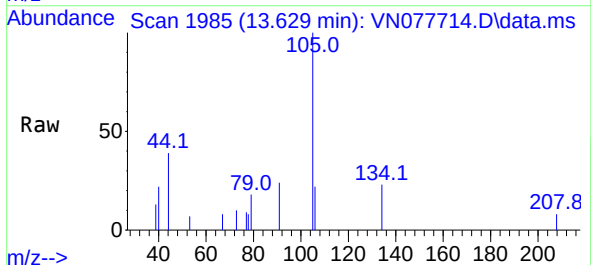
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

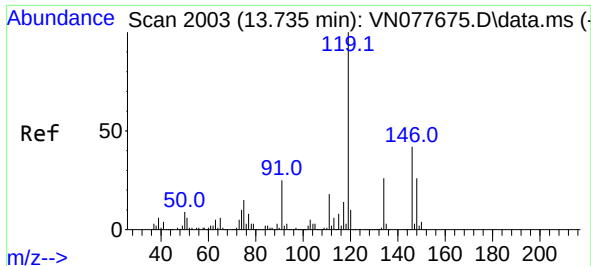
Tgt Ion:105 Resp: 3611
Ion Ratio Lower Upper
105 100
120 51.4 22.0 66.0



#85
sec-Butylbenzene
Concen: 0.208 ug/l
RT: 13.629 min Scan# 1985
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:105 Resp: 4097
Ion Ratio Lower Upper
105 100
134 18.8 9.8 29.3

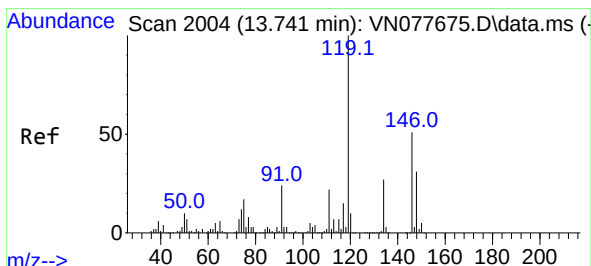
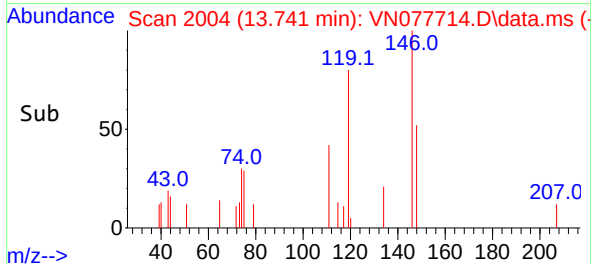
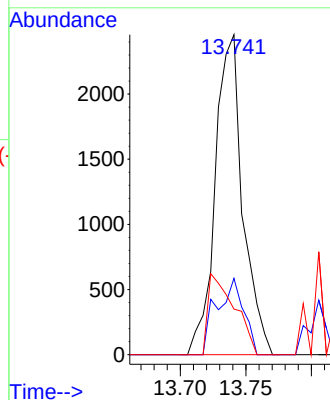
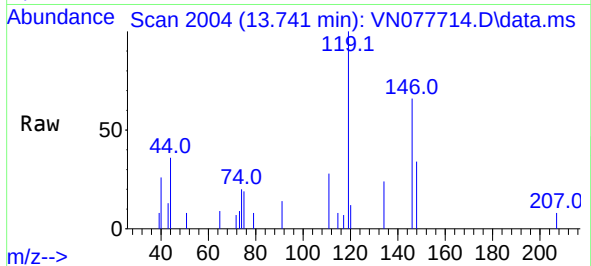




#86
p-Isopropyltoluene
Concen: 0.228 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. 0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

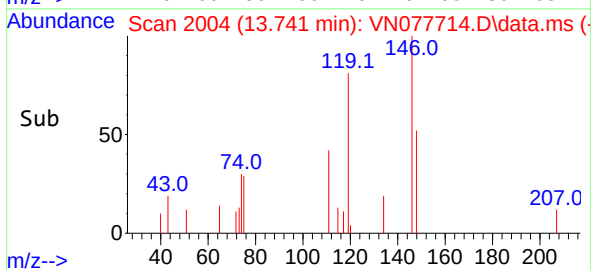
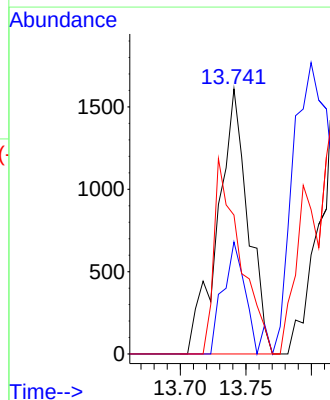
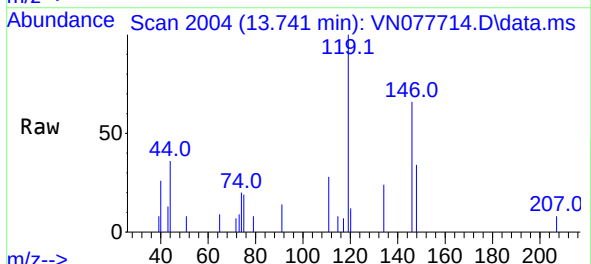
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

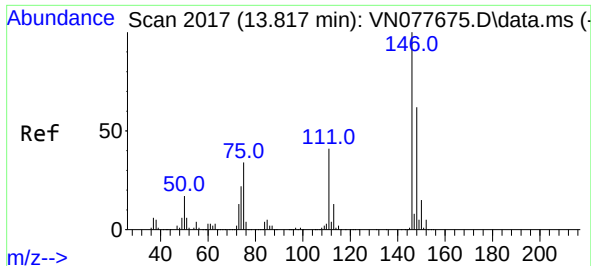
Tgt Ion:	119	Resp:	3583
Ion	Ratio	Lower	Upper
119	100		
134	23.3	12.6	37.8
91	24.4	12.4	37.2



#87
1,3-Dichlorobenzene
Concen: 0.325 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:	146	Resp:	2591
Ion	Ratio	Lower	Upper
146	100		
111	32.5	22.1	66.3
148	63.2	32.0	96.0

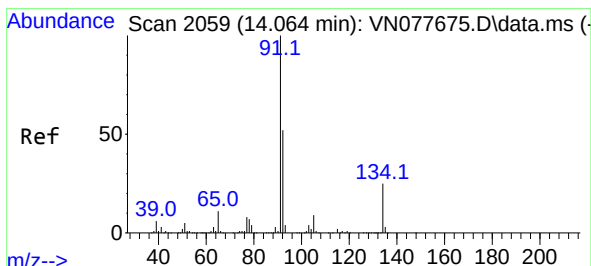
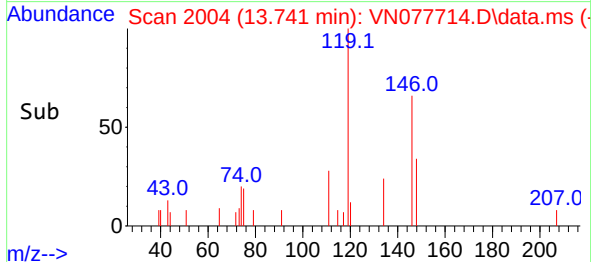
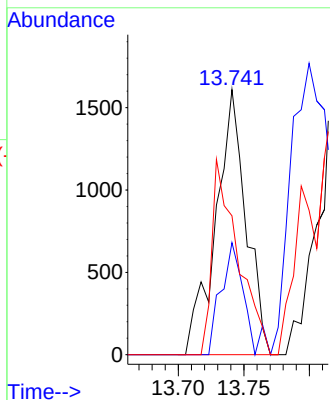
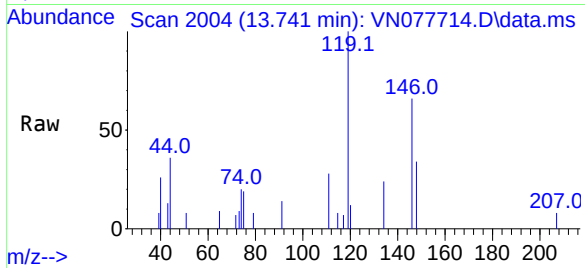




#88
1,4-Dichlorobenzene
Concen: 0.328 ug/l
RT: 13.741 min Scan# 2058
Delta R.T. -0.076 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

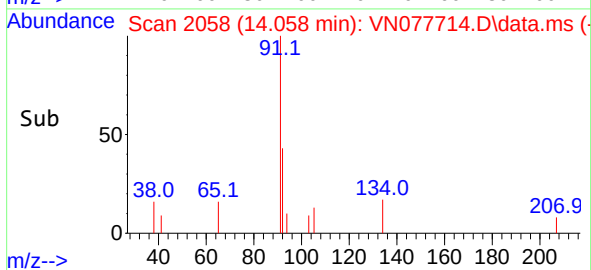
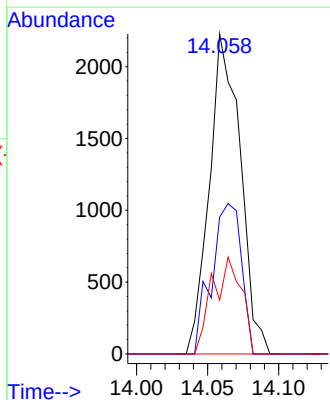
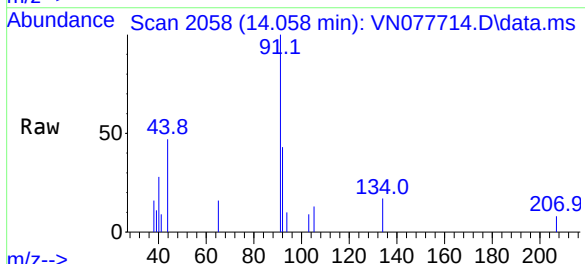
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

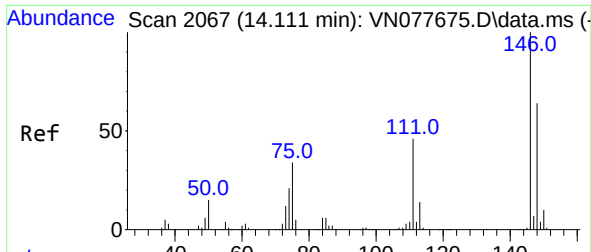
Tgt Ion:	146	Resp:	2591
Ion	Ratio	Lower	Upper
146	100		
111	32.5	20.6	61.8
148	63.2	31.6	94.8



#89
n-Butylbenzene
Concen: 0.234 ug/l
RT: 14.058 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:	91	Resp:	3374
Ion	Ratio	Lower	Upper
91	100		
92	45.3	26.4	79.0
134	28.5	12.6	37.6





#91

1,2-Dichlorobenzene

Concen: 0.247 ug/l

RT: 14.111 min Scan# 2067

Delta R.T. 0.000 min

Lab File: VN077714.D

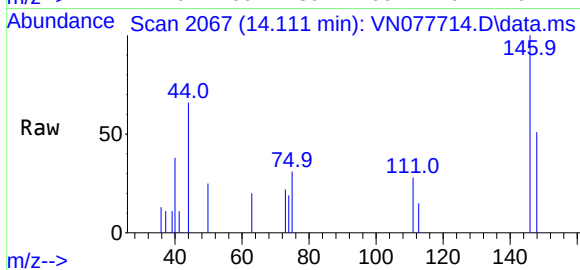
Acq: 17 May 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2023



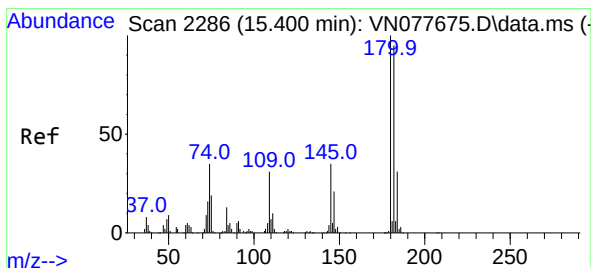
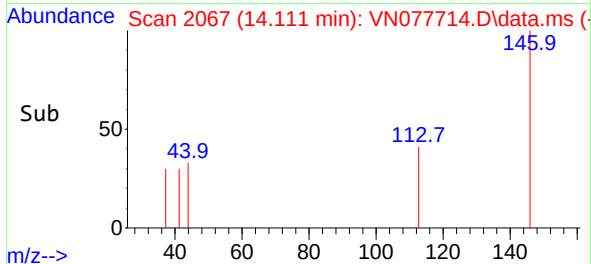
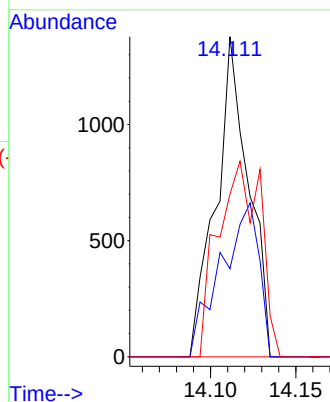
Tgt Ion:146 Resp: 1839

Ion Ratio Lower Upper

146 100

111 55.9 22.0 66.0

148 79.5 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 0.486 ug/l

RT: 15.400 min Scan# 2286

Delta R.T. -0.000 min

Lab File: VN077714.D

Acq: 17 May 2023 15:20

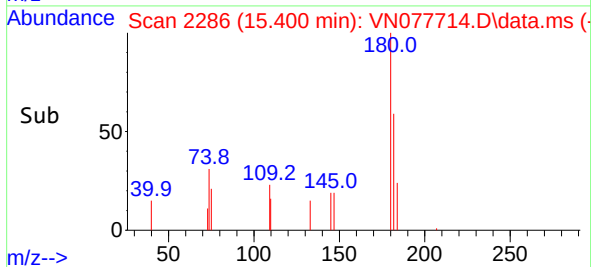
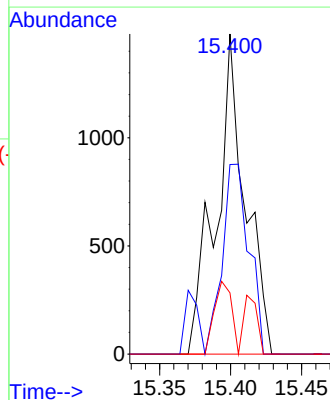
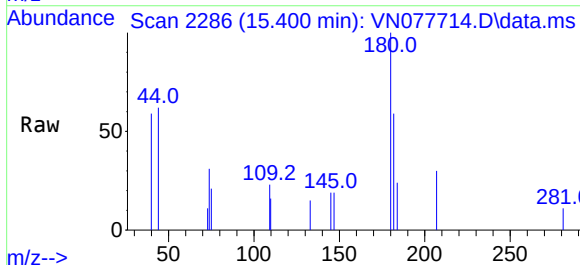
Tgt Ion:180 Resp: 2114

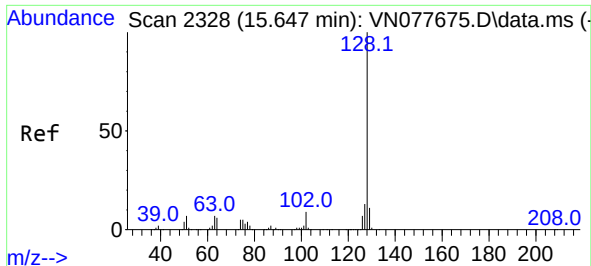
Ion Ratio Lower Upper

180 100

182 54.1 46.1 138.2

145 8.5 16.6 49.8#

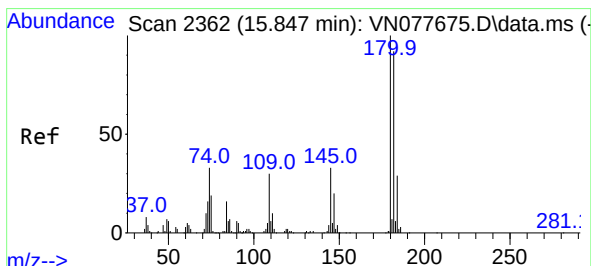
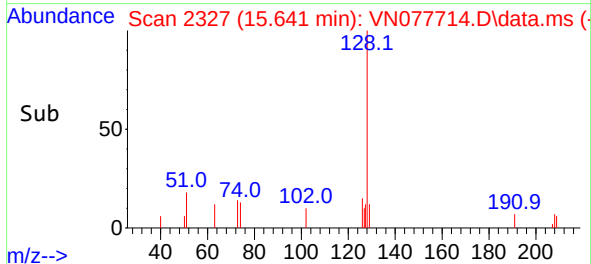
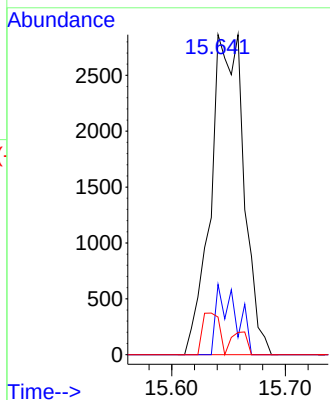
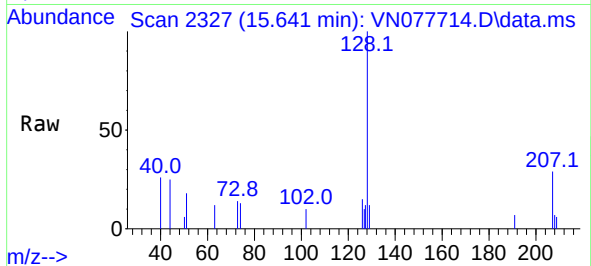




#95
Naphthalene
Concen: 0.387 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2023

Tgt Ion:128 Resp: 5787
Ion Ratio Lower Upper
128 100
127 13.0 10.0 15.0
129 6.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.425 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN077714.D
Acq: 17 May 2023 15:20

Tgt Ion:180 Resp: 1812
Ion Ratio Lower Upper
180 100
182 92.7 46.2 138.6
145 23.3 17.5 52.6

