

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060623\
 Data File : VN078075.D
 Acq On : 06 Jun 2023 17:12
 Operator : JC\MD
 Sample : 03032-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-21-0A

Quant Time: Jun 07 01:23:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

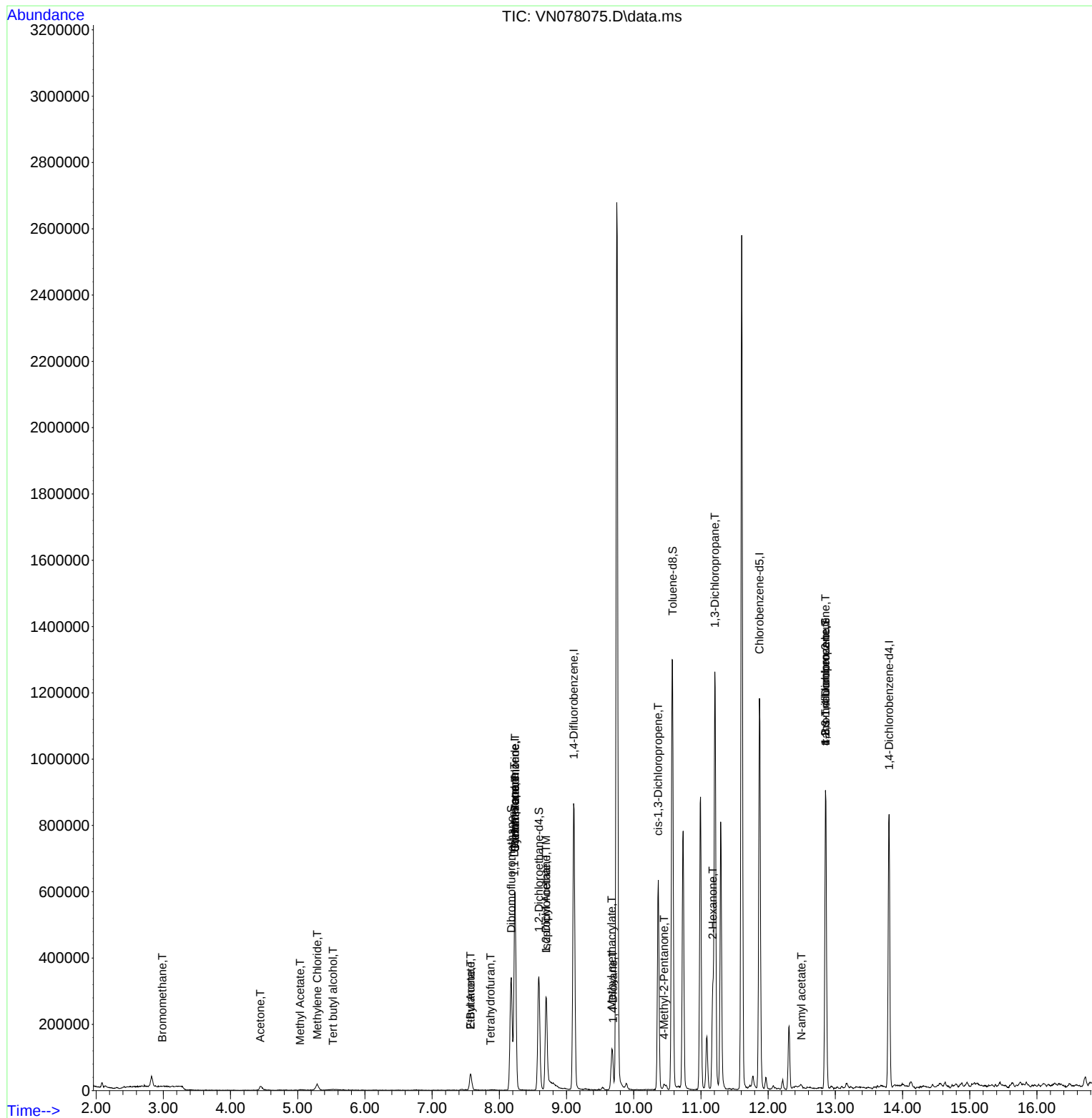
Internal Standards						
1) Pentafluorobenzene	8.230	168	430922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	787802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	710896	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	226369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	278754	43.233	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.460%
35) Dibromofluoromethane	8.177	113	248111	48.297	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.600%
50) Toluene-d8	10.577	98	970588	49.086	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.180%
62) 4-Bromofluorobenzene	12.853	95	329588	47.195	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.380%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1020	Below Cal	#	68
5) Bromomethane	2.983	94	1556	0.340	ug/l #	71
11) Tert butyl alcohol	5.524	59	260	0.292	ug/l #	72
13) Acrolein	4.195	56	137	Below Cal	#	41
16) Acetone	4.442	43	23371	11.521	ug/l	99
18) Methyl Acetate	5.036	43	2232	0.262	ug/l	95
20) Methylene Chloride	5.289	84	14773	0.856	ug/l	95
25) 2-Butanone	7.571	43	71656	22.581	ug/l #	37
29) Tetrahydrofuran	7.871	42	927	0.446	ug/l #	52
31) Cyclohexane	8.236	56	10241	1.169	ug/l #	38
36) 1,1-Dichloropropene	8.224	75	35858	4.772	ug/l #	49
37) Ethyl Acetate	7.571	43	71656	10.699	ug/l #	95
38) Carbon Tetrachloride	8.236	117	46682	6.153	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	2447	0.304	ug/l #	73
43) Isopropyl Acetate	8.694	43	334424	30.571	ug/l #	82
48) Methyl methacrylate	9.671	41	7807	1.505	ug/l #	34
49) 1,4-Dioxane	9.694	88	135	1.378	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	11020	1.695	ug/l #	84
54) cis-1,3-Dichloropropene	10.365	75	123635	13.673	ug/l #	64
57) 1,3-Dichloropropane	11.206	76	14085	1.499	ug/l #	42
59) 2-Hexanone	11.177	43	247848	51.532	ug/l #	19
74) N-amyl acetate	12.494	43	4066	0.564	ug/l #	55
76) 1,2,3-Trichloropropane	12.853	75	169542	29.906	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	169542	95.596	ug/l #	15

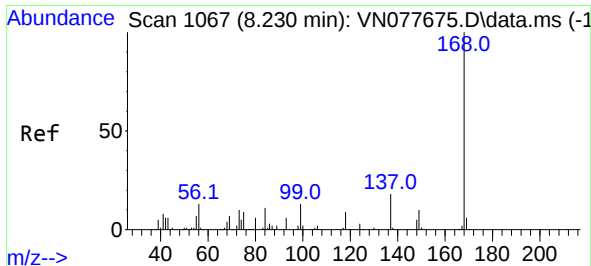
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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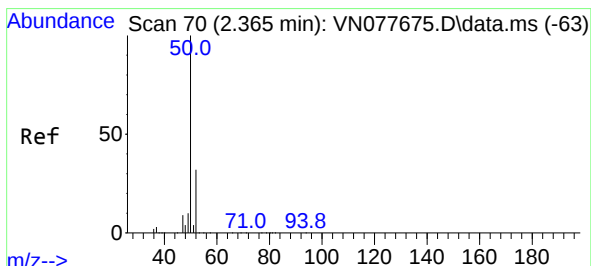
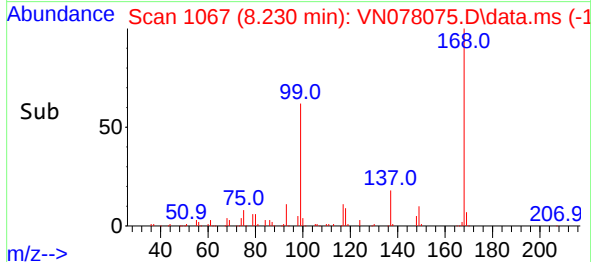
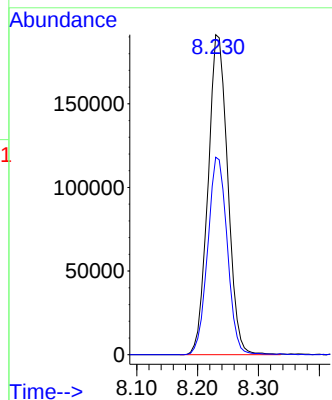
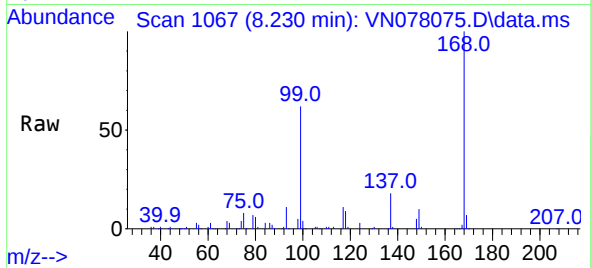




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

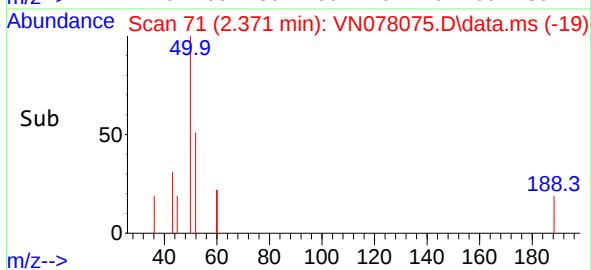
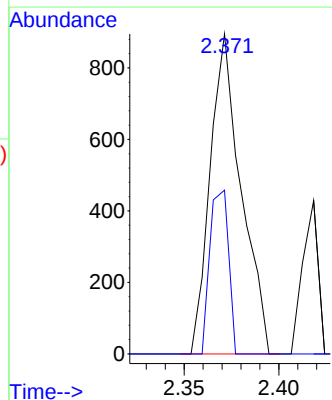
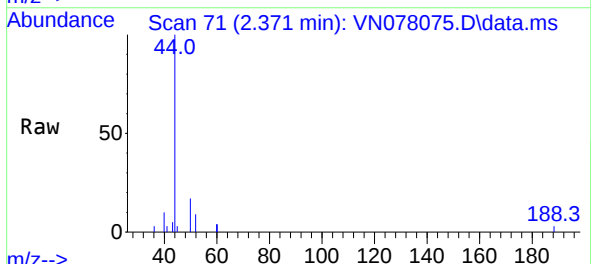
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

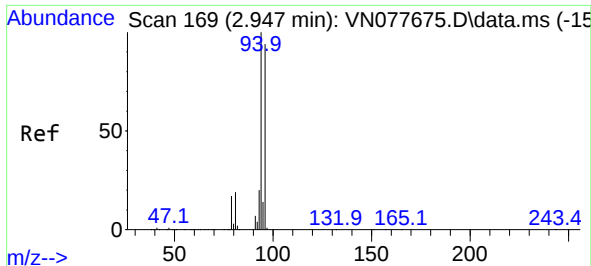
Tgt Ion:168 Resp: 430922
Ion Ratio Lower Upper
168 100
99 61.7 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 50 Resp: 1020
Ion Ratio Lower Upper
50 100
52 51.2 26.5 39.7#

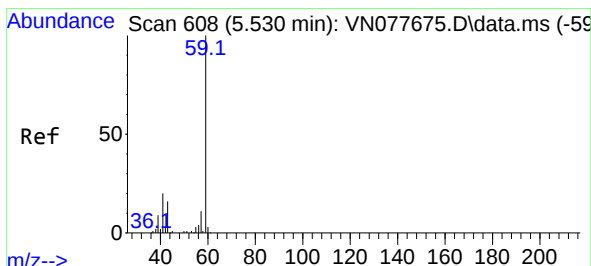
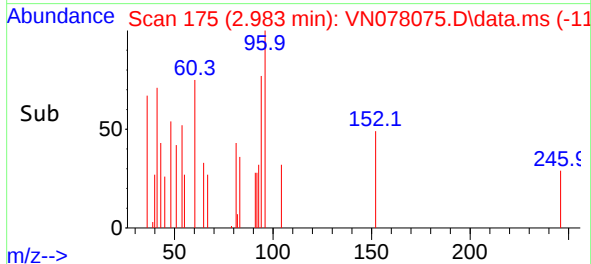
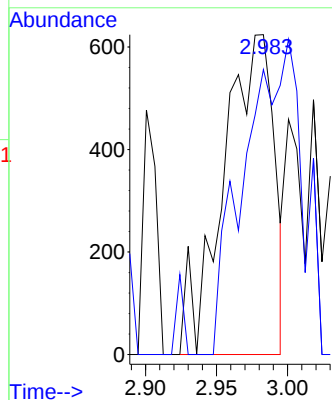
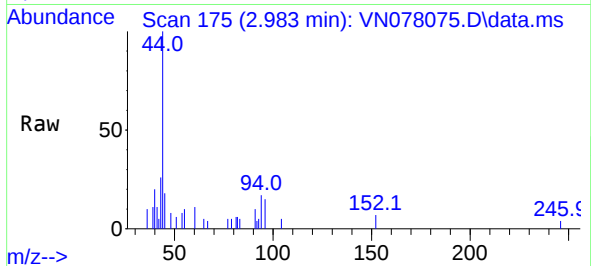




#5
Bromomethane
Concen: 0.340 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

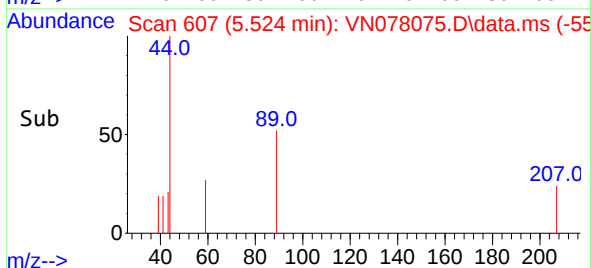
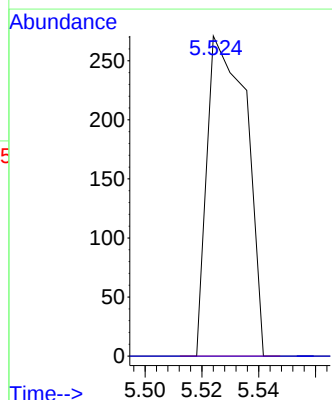
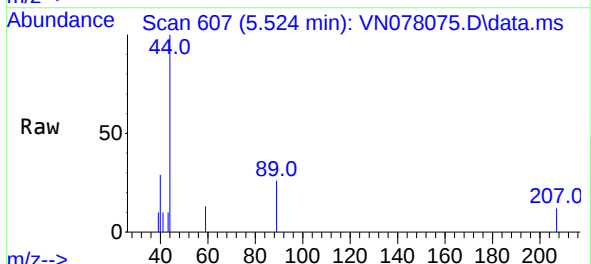
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

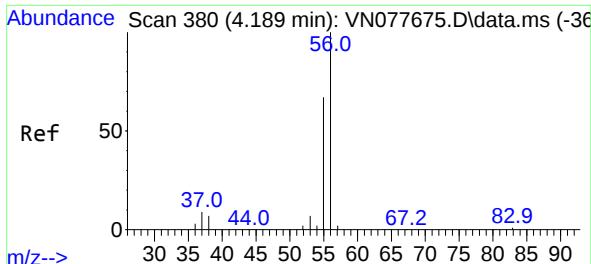
Tgt Ion: 94 Resp: 1556
Ion Ratio Lower Upper
94 100
96 64.1 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.292 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 59 Resp: 260
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

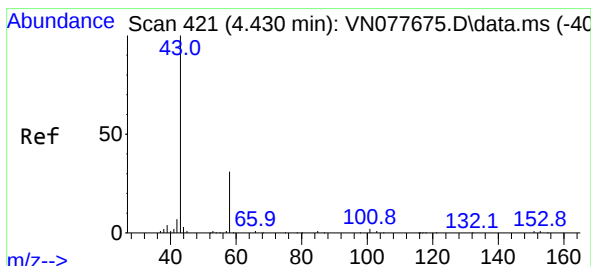
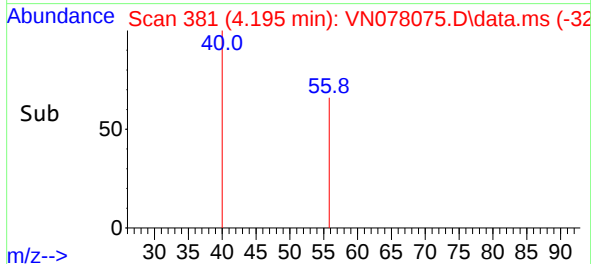
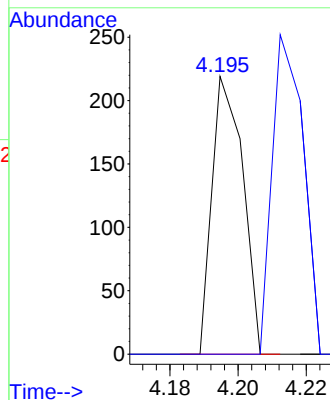
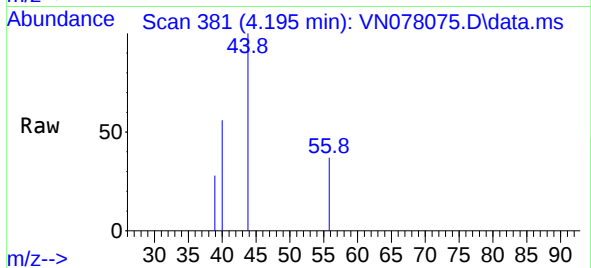




#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

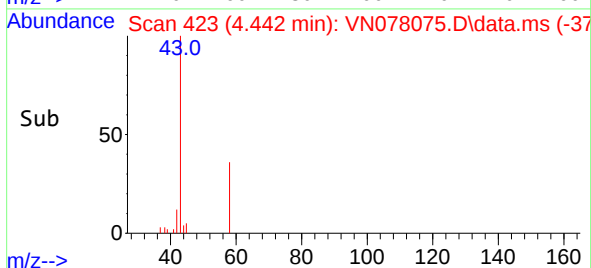
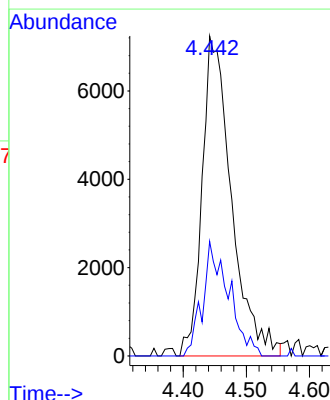
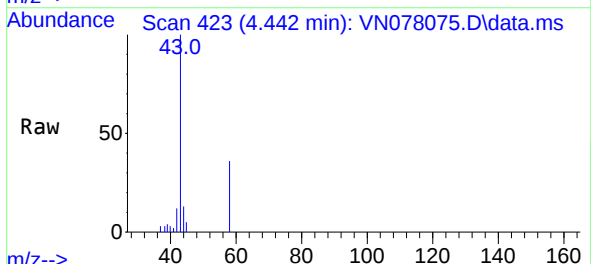
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

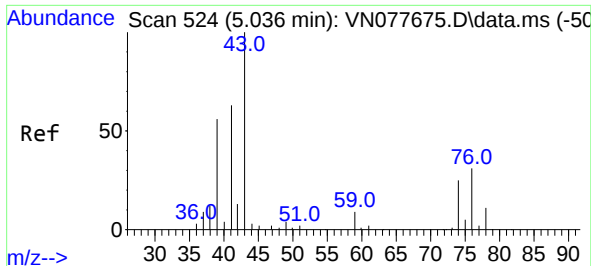
Tgt Ion: 56 Resp: 137
Ion Ratio Lower Upper
56 100
55 116.1 54.5 81.7#



#16
Acetone
Concen: 11.521 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 43 Resp: 23371
Ion Ratio Lower Upper
43 100
58 35.8 28.0 42.0

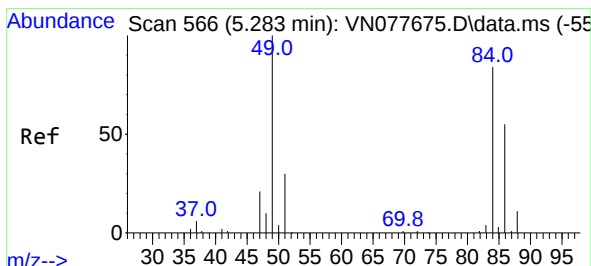
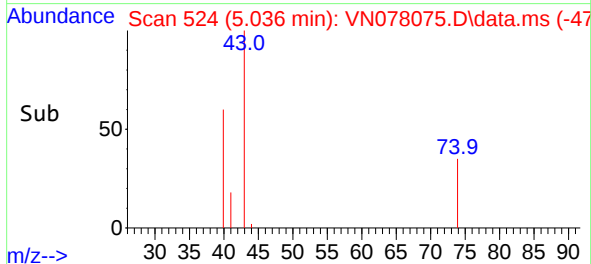
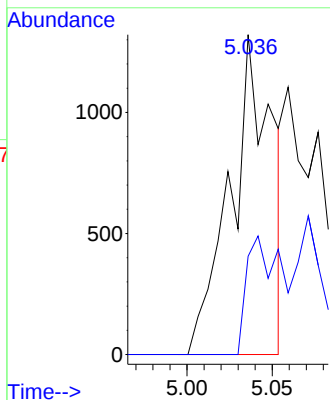
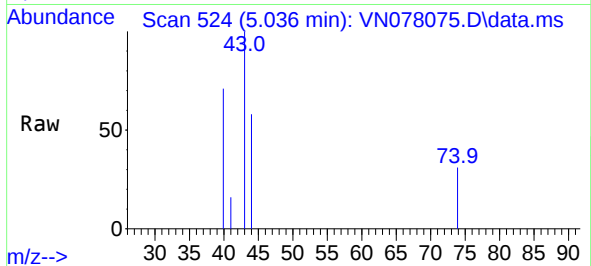




#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

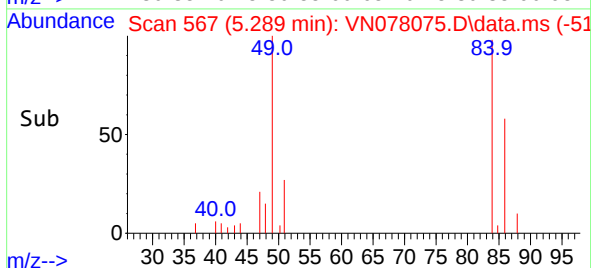
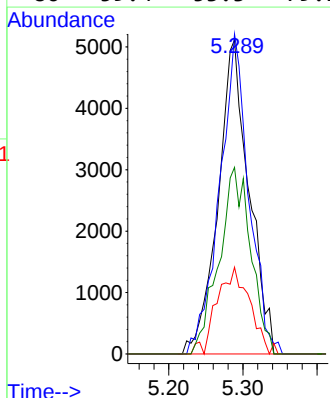
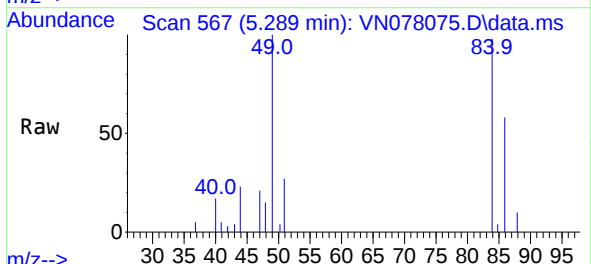
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

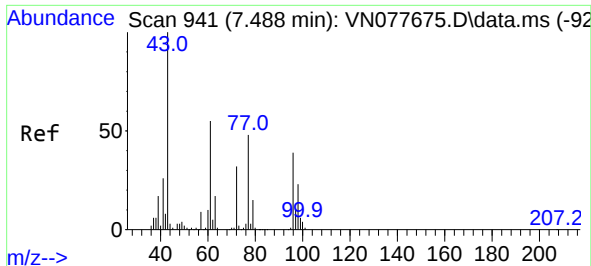
Tgt Ion: 43 Resp: 2232
Ion Ratio Lower Upper
43 100
74 30.1 26.2 39.4



#20
Methylene Chloride
Concen: 0.856 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 84 Resp: 14773
Ion Ratio Lower Upper
84 100
49 101.9 79.7 119.5
51 27.6 25.2 37.8
86 59.4 53.3 79.9

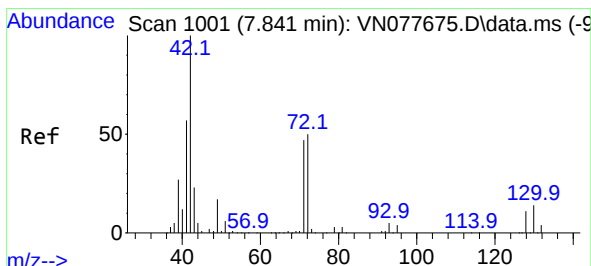
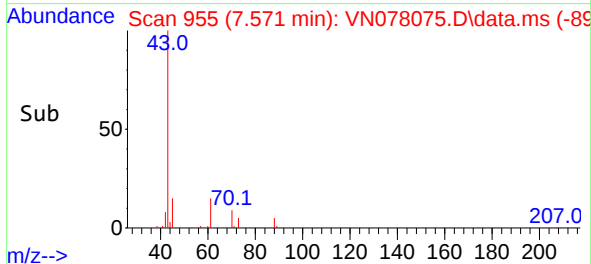
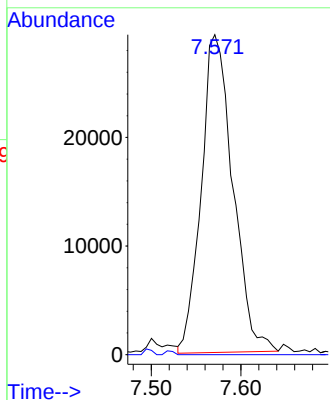
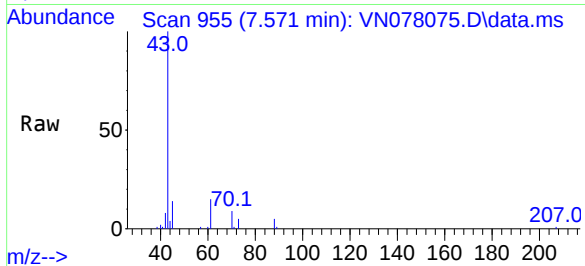




#25
2-Butanone
Concen: 22.581 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.083 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

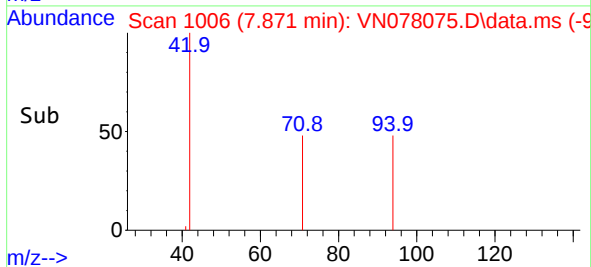
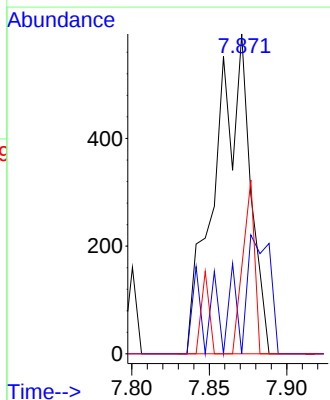
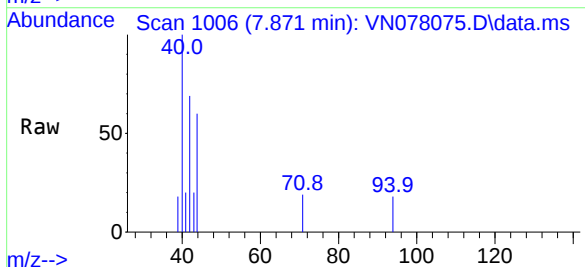
Instrument :
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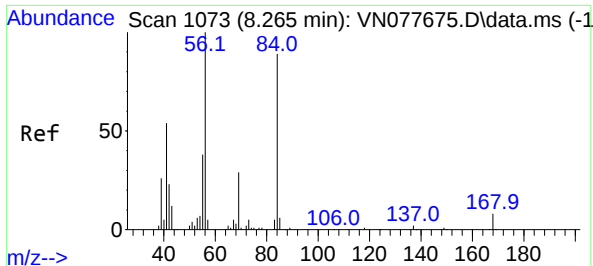
Tgt Ion: 43 Resp: 71656
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.446 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.030 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 42 Resp: 927
Ion Ratio Lower Upper
42 100
72 29.7 49.8 74.6#
71 18.3 47.4 71.2#

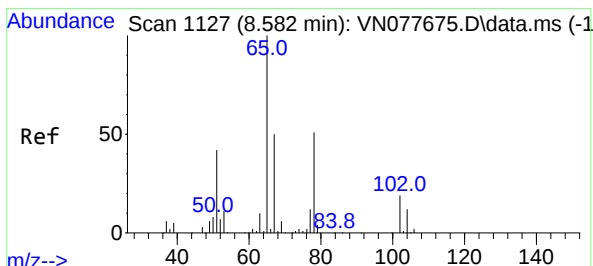
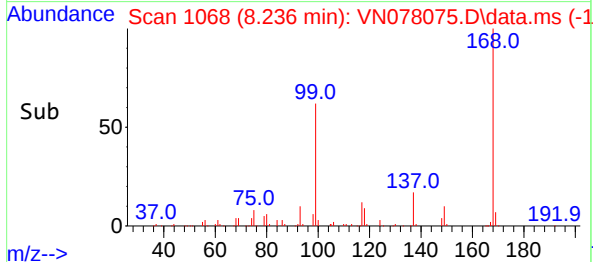
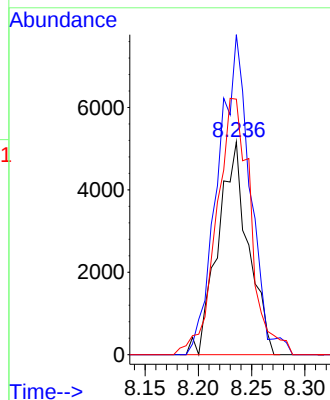
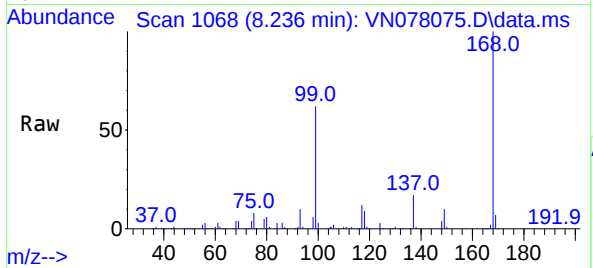




#31
Cyclohexane
Concen: 1.169 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

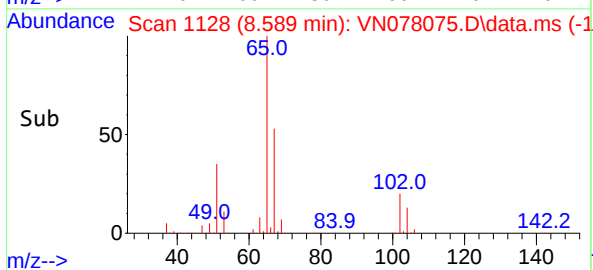
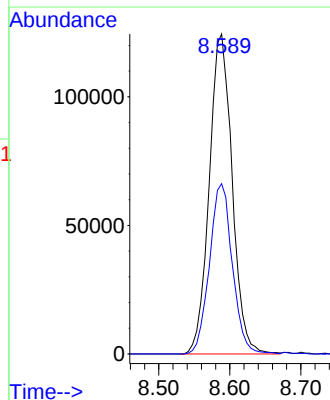
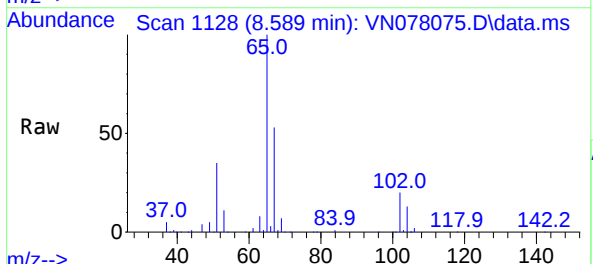
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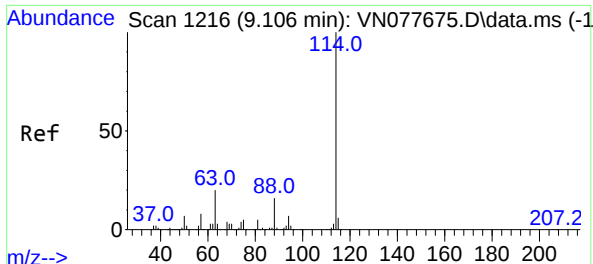
Tgt Ion: 56 Resp: 10241
Ion Ratio Lower Upper
56 100
69 150.4 26.8 40.2#
84 117.0 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 43.233 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.007 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 65 Resp: 278754
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078075.D

Acq: 06 Jun 2023 17:12

Instrument :

MSVOA_N

ClientSampleId :

TP-21-0A

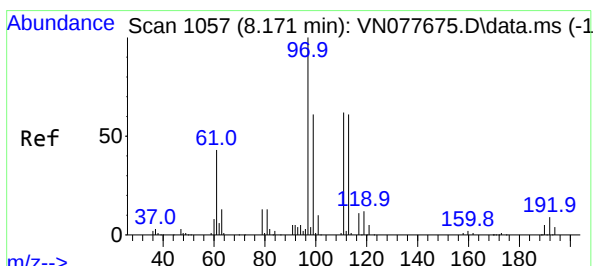
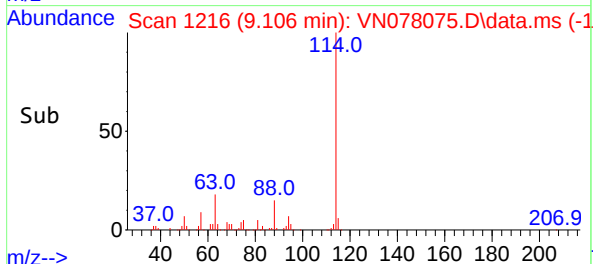
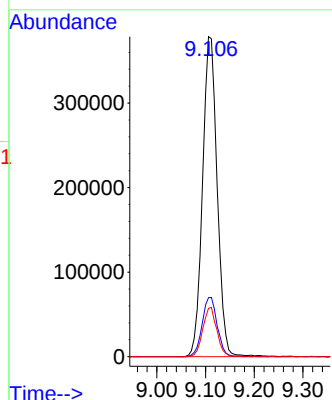
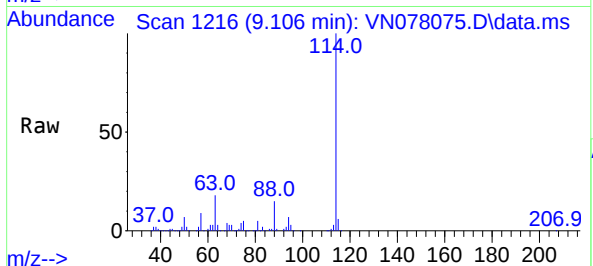
Tgt Ion:114 Resp: 787802

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.297 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN078075.D

Acq: 06 Jun 2023 17:12

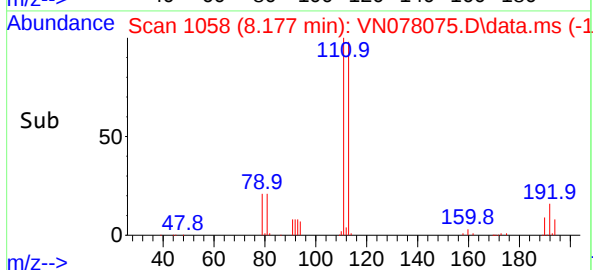
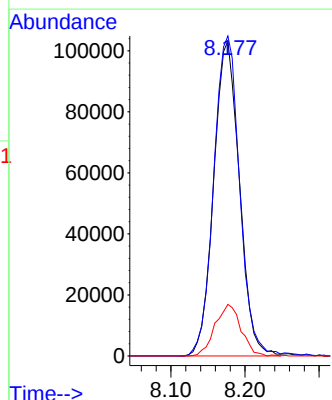
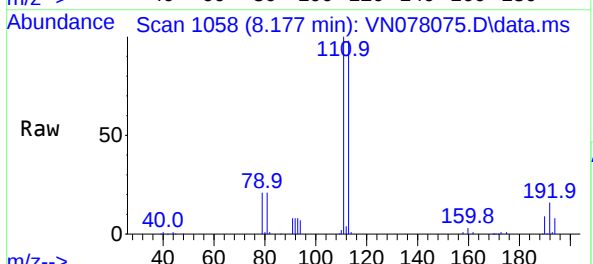
Tgt Ion:113 Resp: 248111

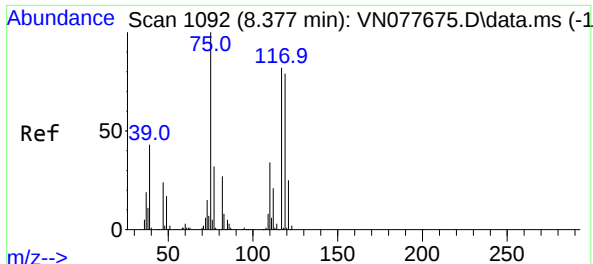
Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 16.5 12.7 19.1

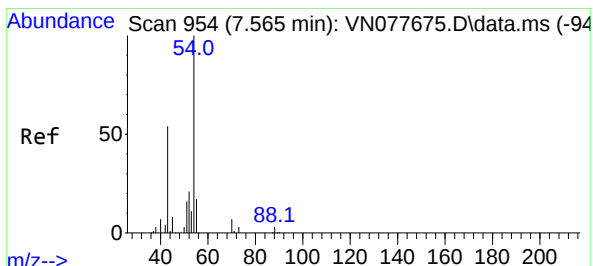
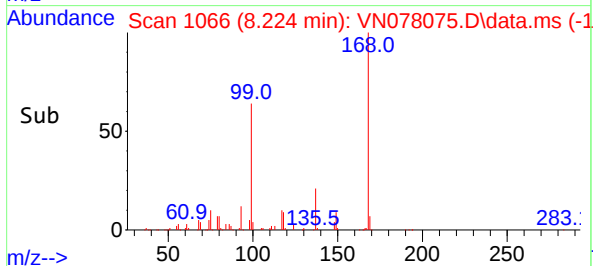
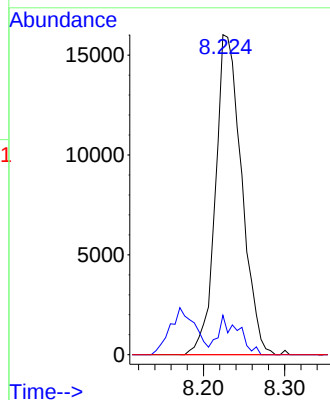
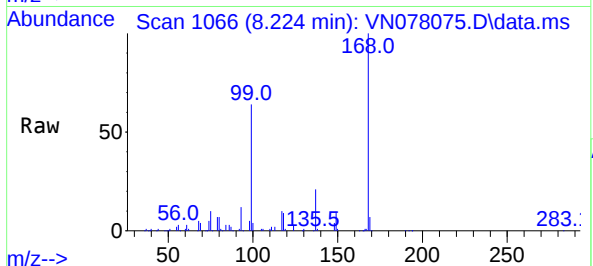




#36
1,1-Dichloropropene
Concen: 4.772 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

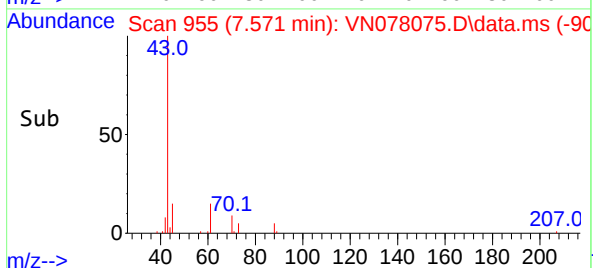
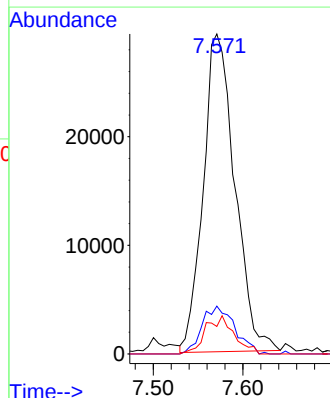
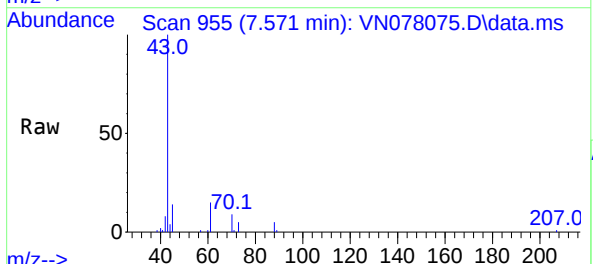
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

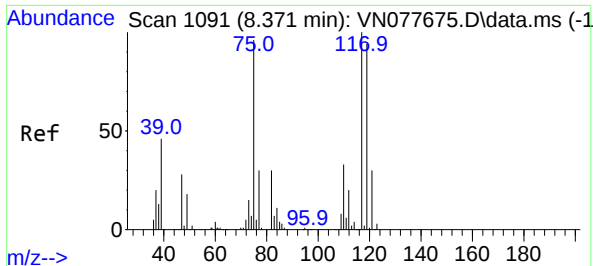
Tgt Ion: 75 Resp: 35858
Ion Ratio Lower Upper
75 100
110 9.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.699 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 43 Resp: 71656
Ion Ratio Lower Upper
43 100
61 15.6 13.2 19.8
70 10.8 11.3 16.9#

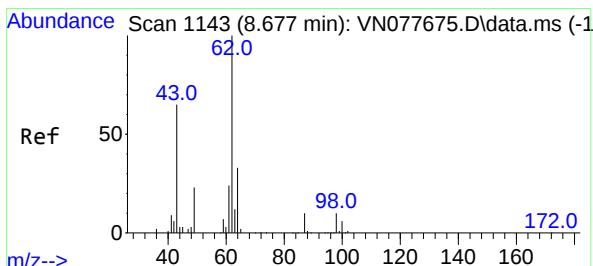
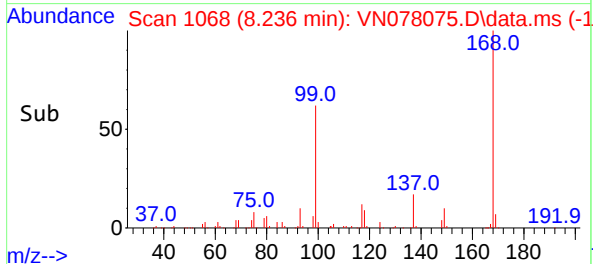
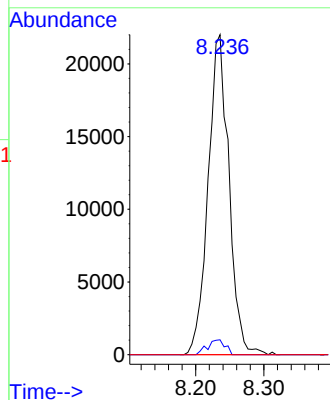
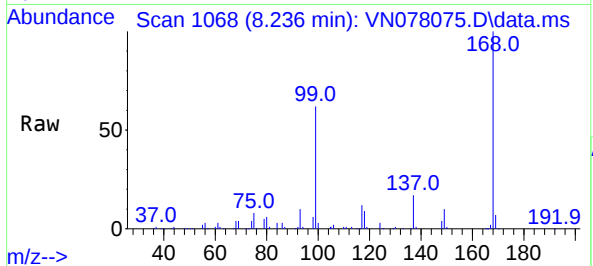




#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

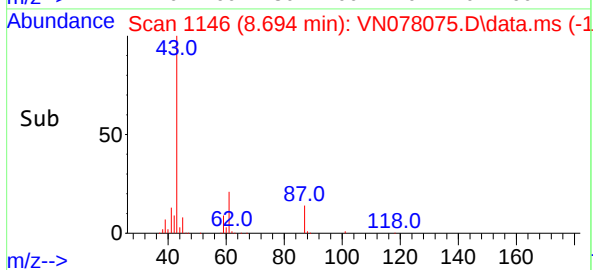
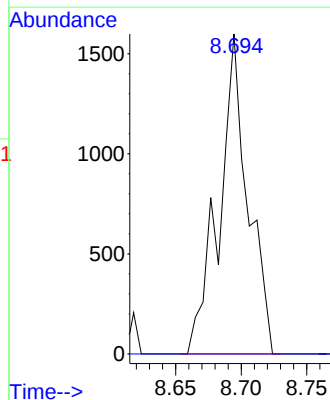
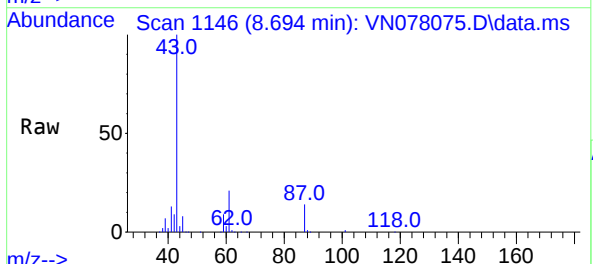
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

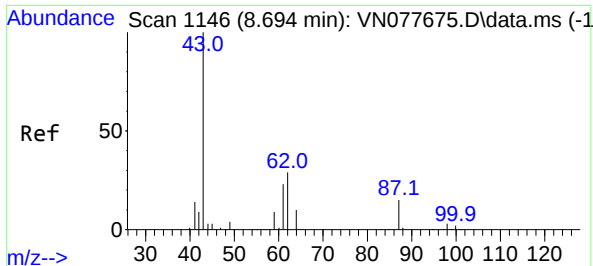
Tgt Ion:117 Resp: 46682
Ion Ratio Lower Upper
117 100
119 4.7 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.304 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 62 Resp: 2447
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

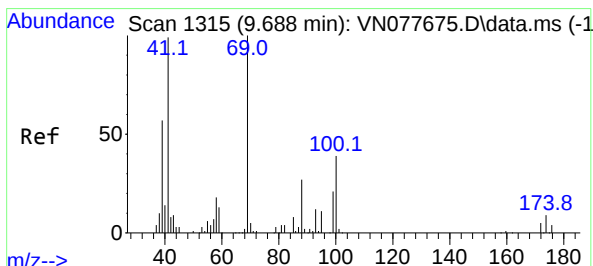
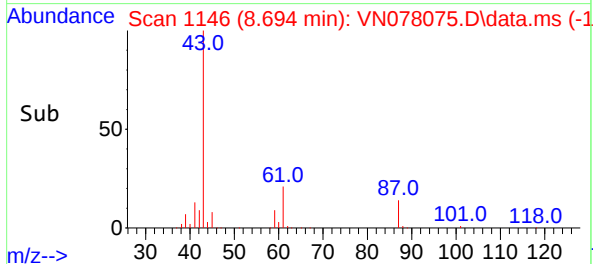
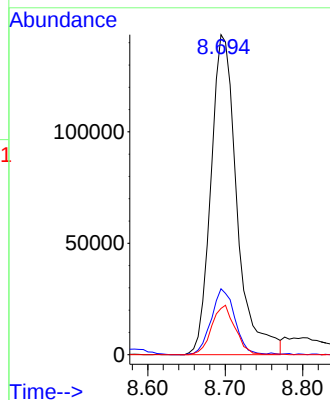
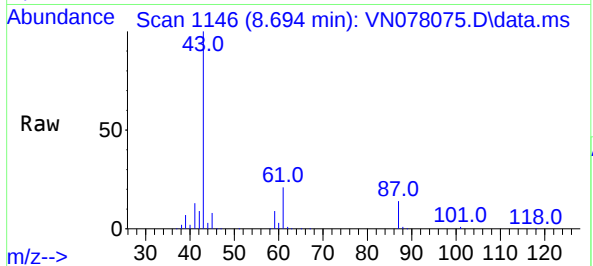




#43
Isopropyl Acetate
Concen: 30.571 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

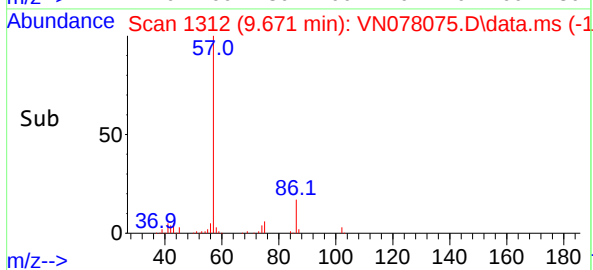
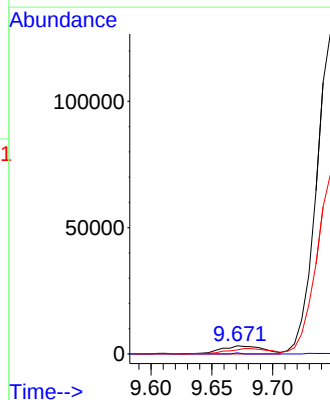
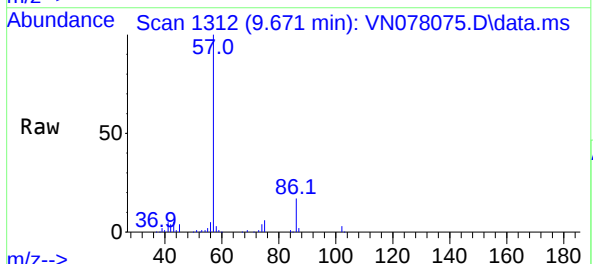
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

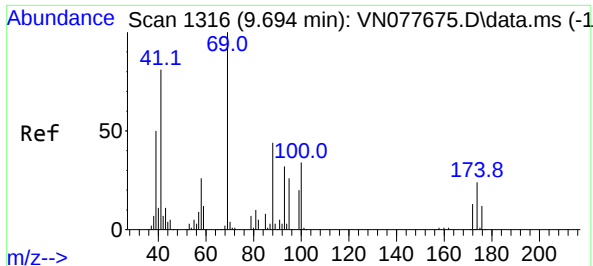
Tgt Ion: 43 Resp: 334424
Ion Ratio Lower Upper
43 100
61 18.8 24.7 37.1#
87 13.9 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.505 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.017 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 41 Resp: 7807
Ion Ratio Lower Upper
41 100
69 2.0 90.4 135.6#
39 64.5 54.6 81.8

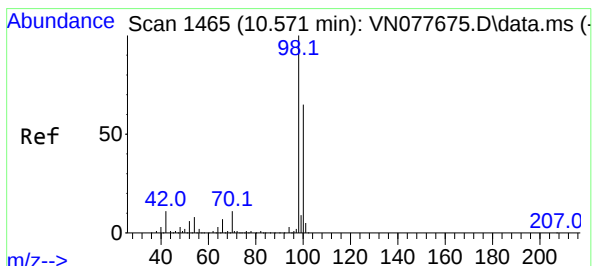
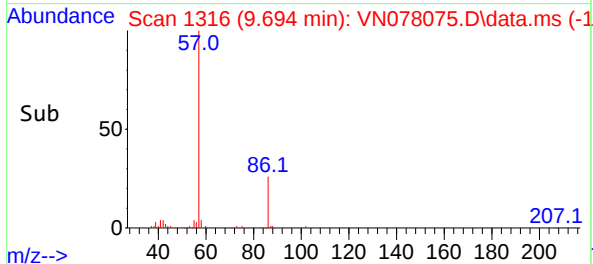
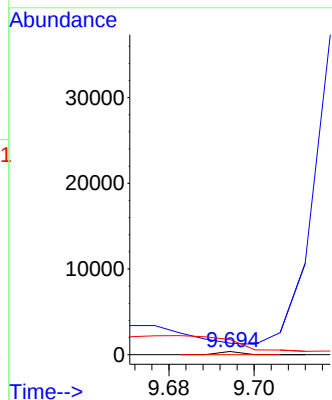
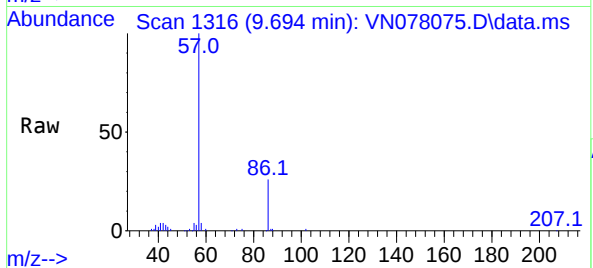




#49
1,4-Dioxane
Concen: 1.378 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

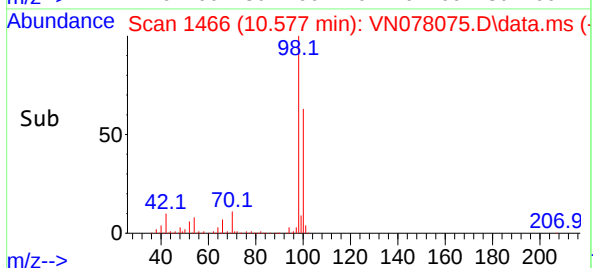
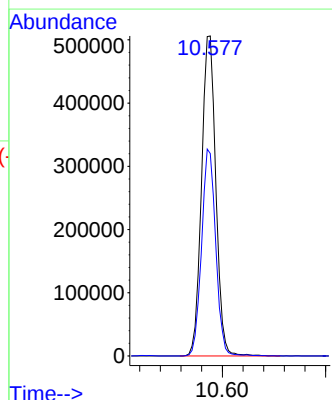
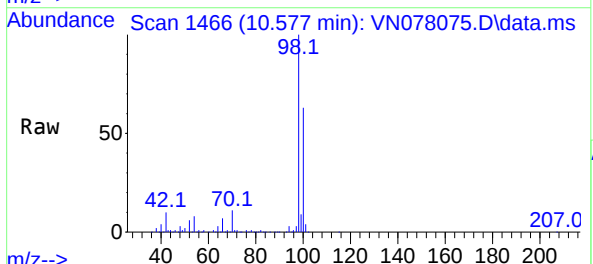
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

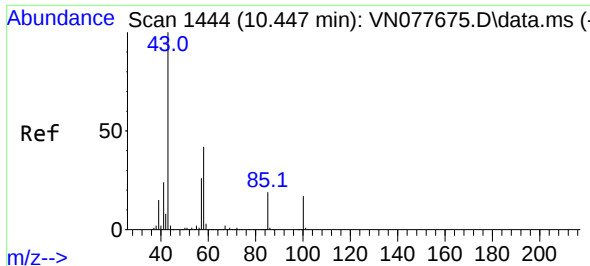
Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 4397.0 47.0 70.4#



#50
Toluene-d8
Concen: 49.086 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 98 Resp: 970588
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.695 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN078075.D

Acq: 06 Jun 2023 17:12

Instrument :

MSVOA_N

ClientSampleId :

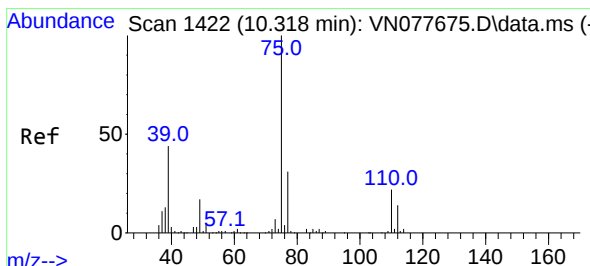
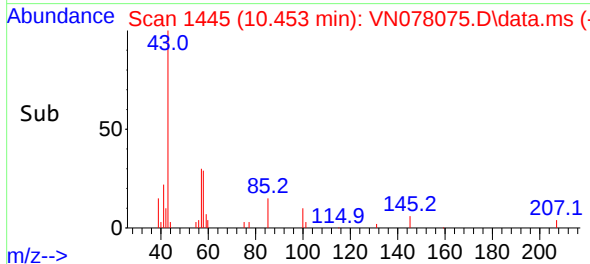
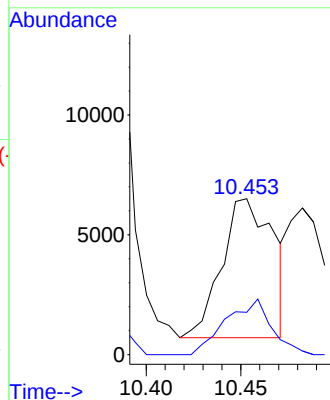
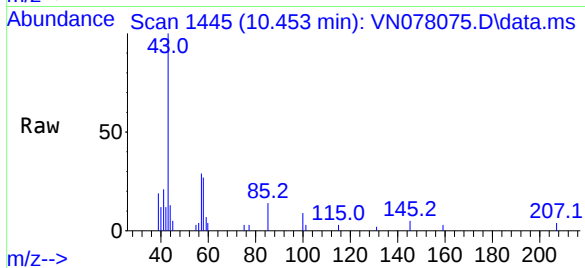
TP-21-0A

Tgt Ion: 43 Resp: 11020

Ion Ratio Lower Upper

43 100

58 35.4 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 13.673 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078075.D

Acq: 06 Jun 2023 17:12

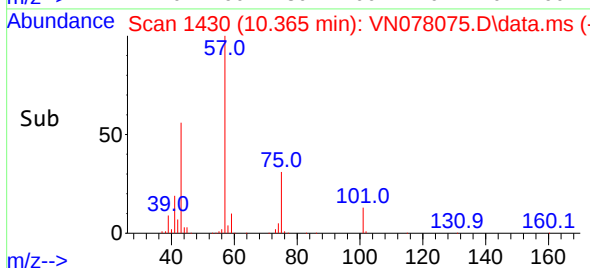
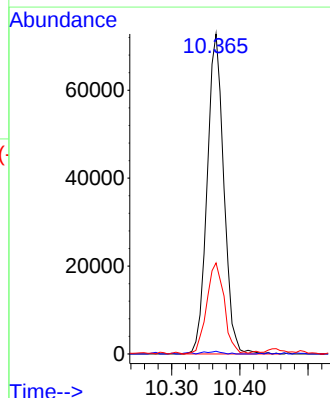
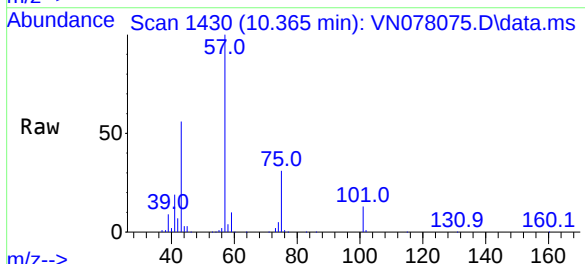
Tgt Ion: 75 Resp: 123635

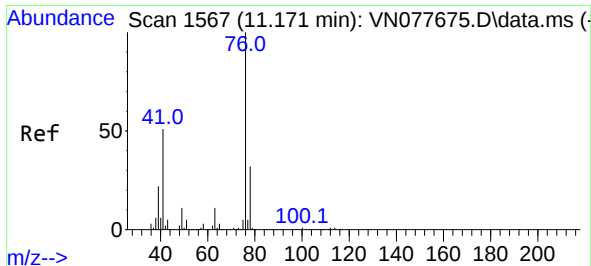
Ion Ratio Lower Upper

75 100

77 0.8 26.1 39.1#

39 28.2 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.499 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078075.D

Acq: 06 Jun 2023 17:12

Instrument :

MSVOA_N

ClientSampleId :

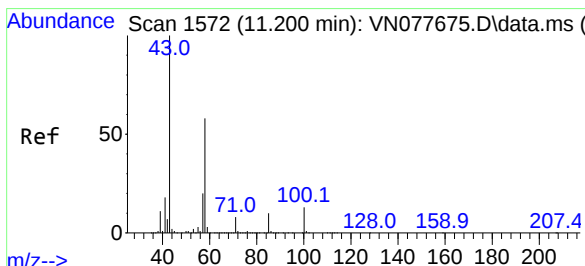
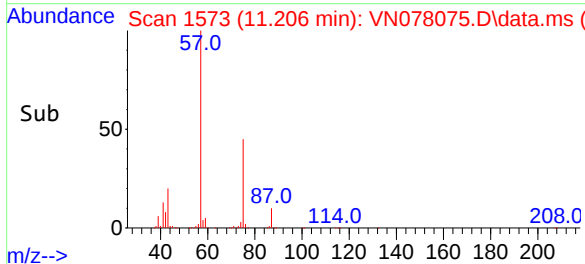
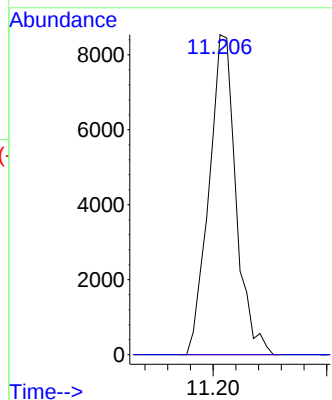
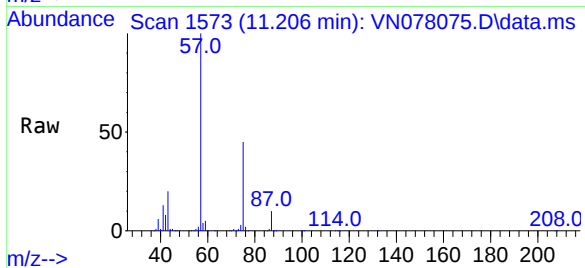
TP-21-0A

Tgt Ion: 76 Resp: 14085

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 51.532 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078075.D

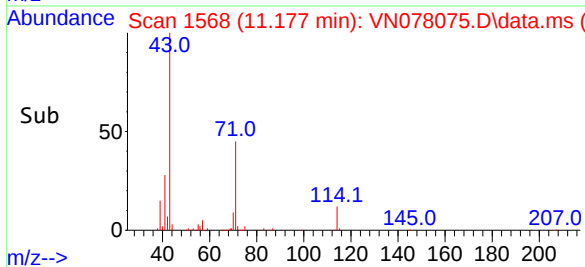
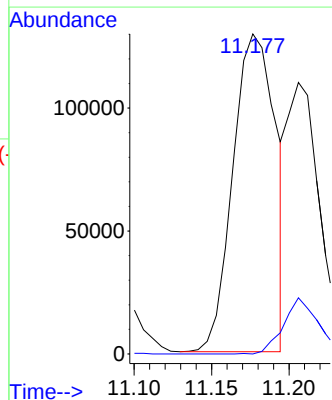
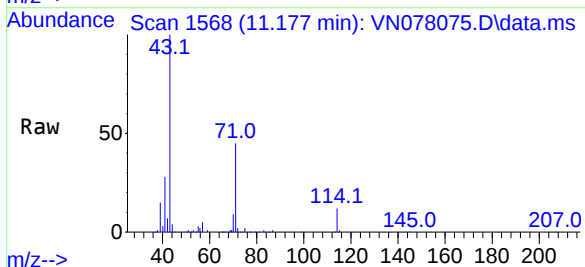
Acq: 06 Jun 2023 17:12

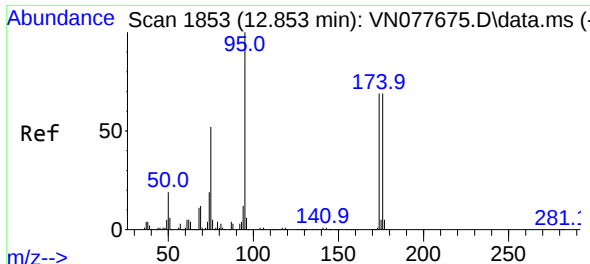
Tgt Ion: 43 Resp: 247848

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

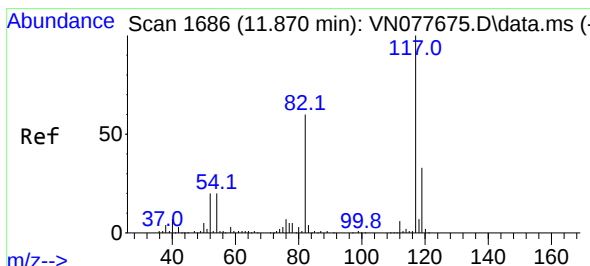
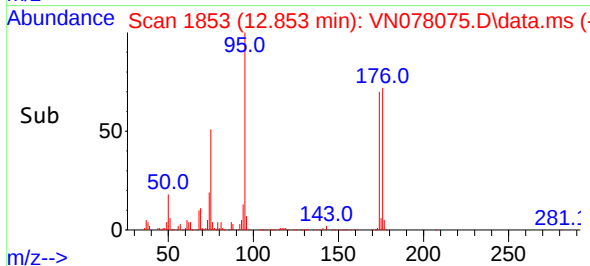
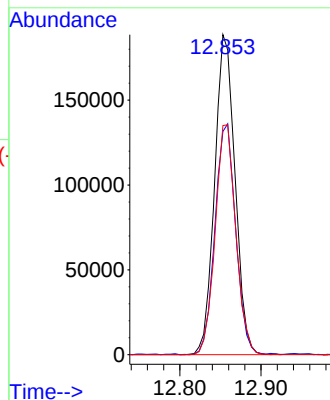
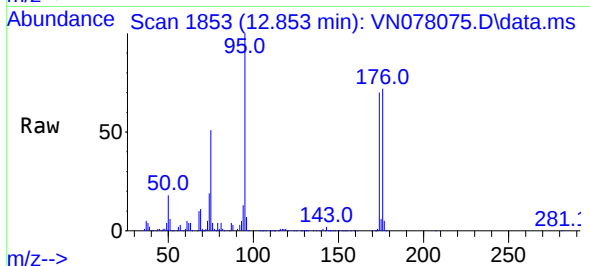




#62
4-Bromofluorobenzene
Concen: 47.195 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

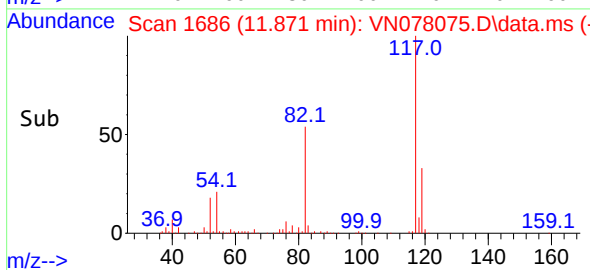
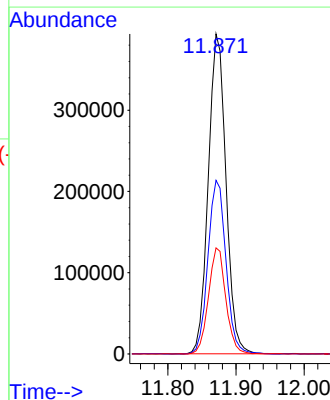
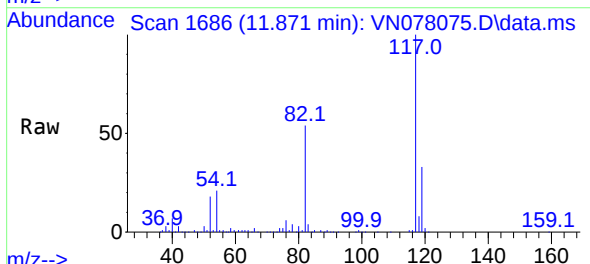
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

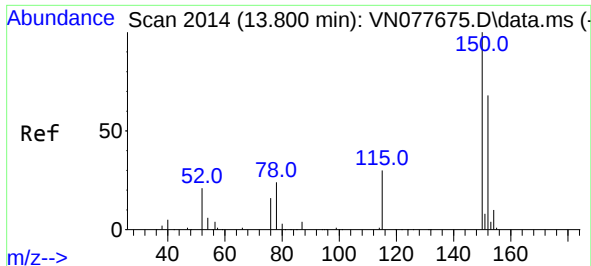
Tgt Ion: 95 Resp: 329588
Ion Ratio Lower Upper
95 100
174 73.4 0.0 143.8
176 72.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 117 Resp: 710896
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 33.1 25.6 38.4

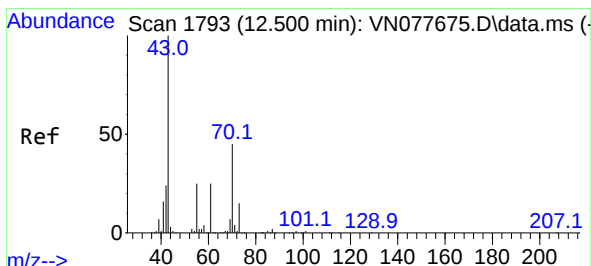
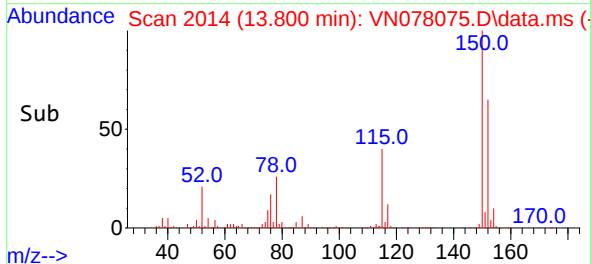
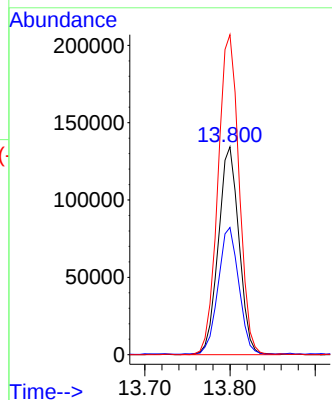
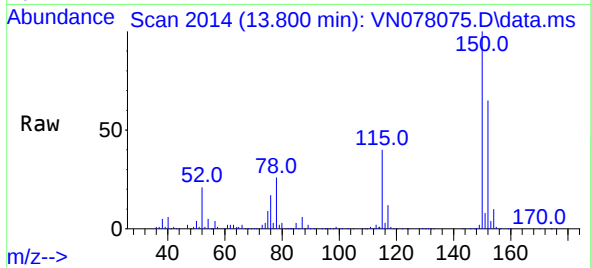




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

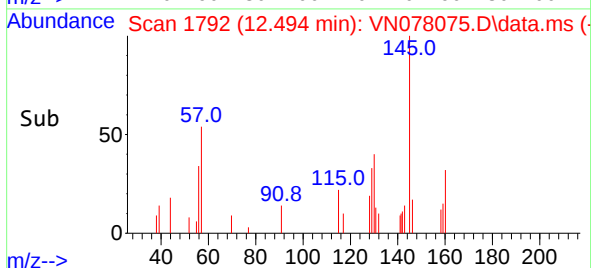
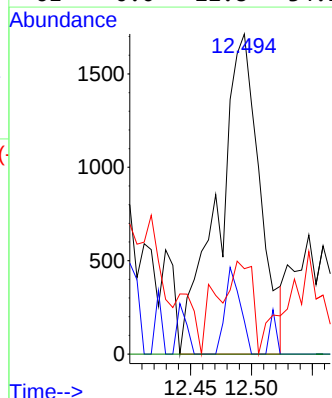
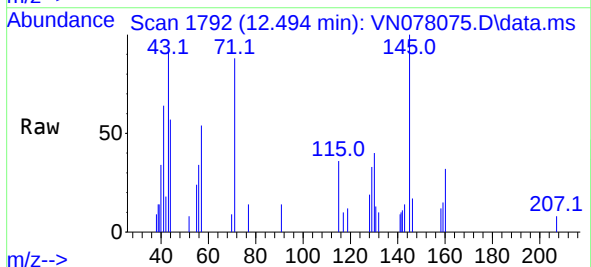
Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

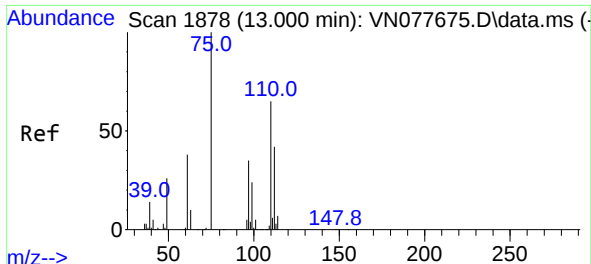
Tgt Ion:152 Resp: 226369
Ion Ratio Lower Upper
152 100
115 61.3 32.3 96.8
150 157.2 0.0 355.8



#74
N-ethyl acetate
Concen: 0.564 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 43 Resp: 4066
Ion Ratio Lower Upper
43 100
70 9.9 43.4 65.2#
55 25.1 21.4 32.0
61 0.0 22.8 34.2#

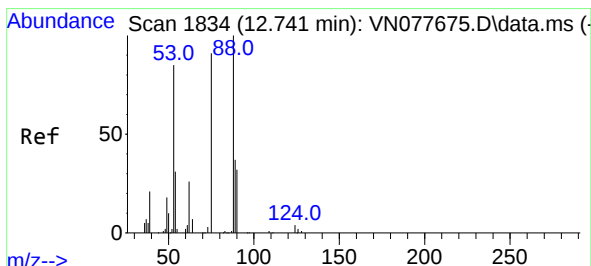
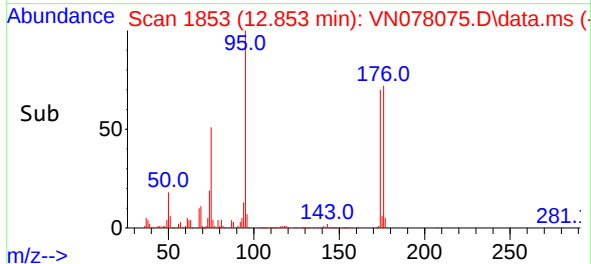
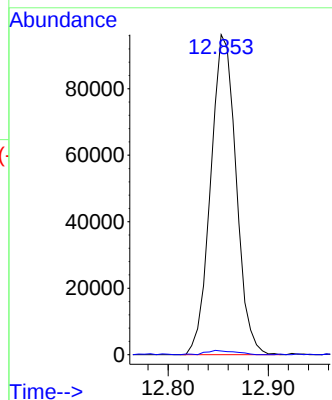
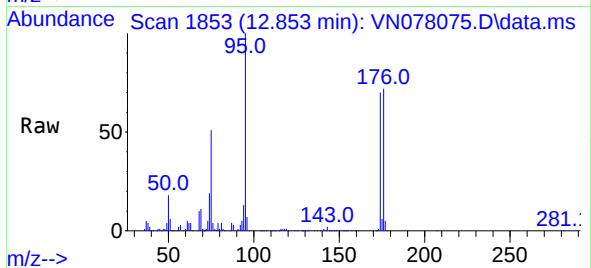




#76
1,2,3-Trichloropropane
Concen: 29.906 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Instrument :
MSVOA_N
ClientSampleId :
TP-21-0A

Tgt Ion: 75 Resp: 169542
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.596 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078075.D
Acq: 06 Jun 2023 17:12

Tgt Ion: 75 Resp: 169542
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

