

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032222\
 Data File : VN071490.D
 Acq On : 23 Mar 2022 02:12
 Operator : JC\MD
 Sample : N1974-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G-6-4-6-7

Quant Time: Mar 23 07:14:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

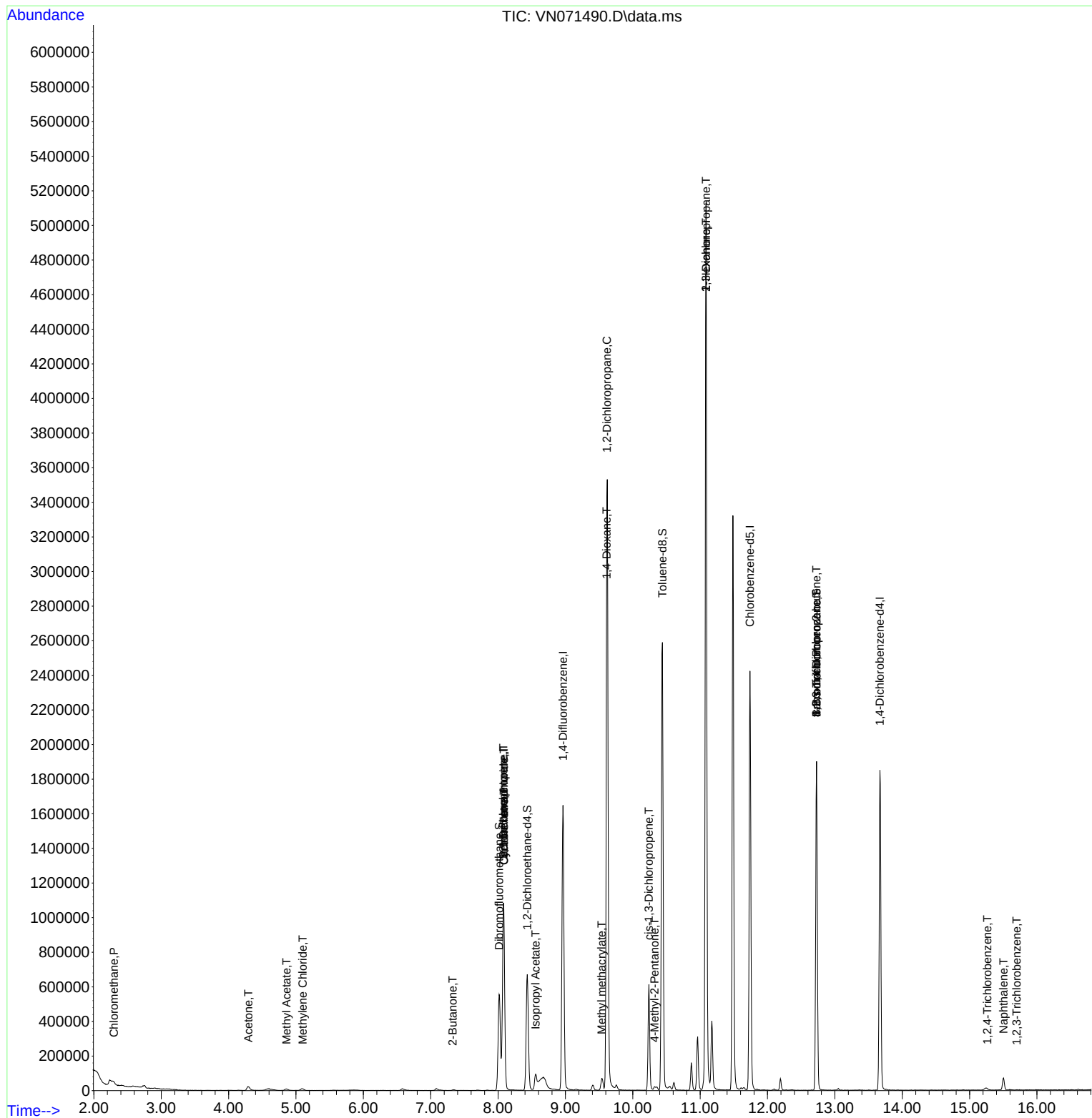
Internal Standards						
1) Pentafluorobenzene	8.081	168	826680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1432358	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1365699	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	509768	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	555427	49.023	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.040%
35) Dibromofluoromethane	8.016	113	414184	45.824	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.640%
50) Toluene-d8	10.439	98	1779826	48.906	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.820%
62) 4-Bromofluorobenzene	12.727	95	652250	52.928	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.860%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	3195	0.228	ug/l	89
5) Bromomethane	2.852	94	475	Below Cal	#	57
16) Acetone	4.293	43	41652	7.556	ug/l	98
18) Methyl Acetate	4.857	43	21104	1.882	ug/l	# 87
20) Methylene Chloride	5.098	84	8039	1.174	ug/l	94
25) 2-Butanone	7.328	43	8169	0.920	ug/l	# 87
31) Cyclohexane	8.087	56	18144	1.003	ug/l	# 15
36) 1,1-Dichloropropene	8.081	75	65795	4.543	ug/l	# 49
38) Carbon Tetrachloride	8.087	117	82827	5.913	ug/l	# 16
43) Isopropyl Acetate	8.557	43	111252	3.733	ug/l	# 79
45) 1,2-Dichloropropane	9.616	63	4385	0.374	ug/l	# 44
48) Methyl methacrylate	9.539	41	20318	1.471	ug/l	# 8
49) 1,4-Dioxane	9.610	88	576	2.399	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.322	43	13540	0.732	ug/l	96
54) cis-1,3-Dichloropropene	10.239	75	103330	5.888	ug/l	# 62
57) 1,3-Dichloropropane	11.086	76	51291	2.654	ug/l	# 43
59) 2-Hexanone	11.086	43	825084	65.376	ug/l	# 49
71) Bromoform	12.727	173	3995	0.489	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.727	83	578	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	339814	26.158	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	339814	72.060	ug/l	# 5
93) 1,2,4-Trichlorobenzene	15.263	180	330	3.026	ug/l	# 87
95) Naphthalene	15.504	128	67347	7.657	ug/l	100
96) 1,2,3-Trichlorobenzene	15.698	180	528	2.794	ug/l	# 54

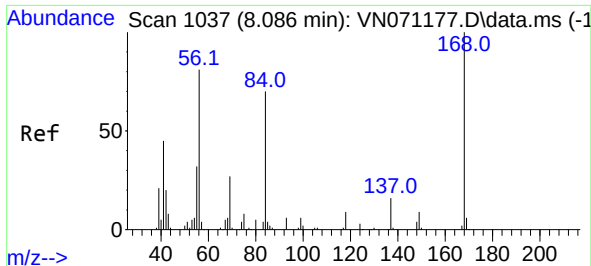
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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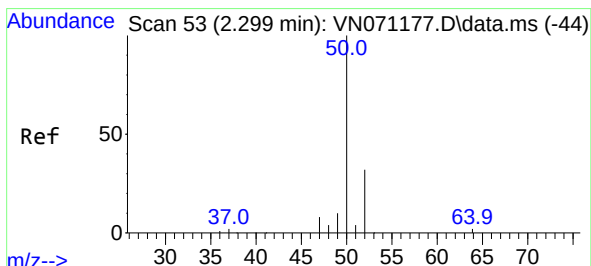
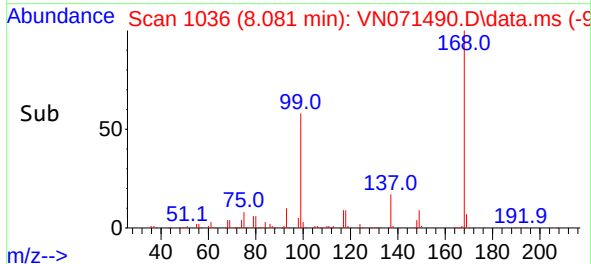
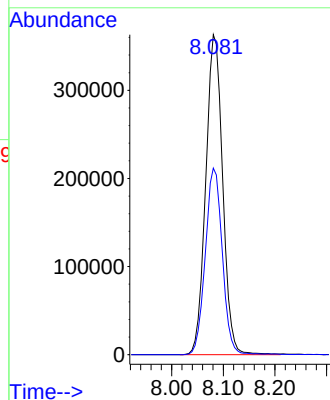
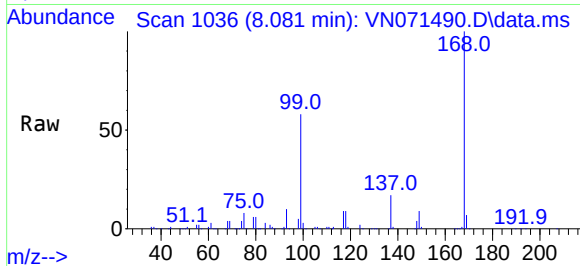




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

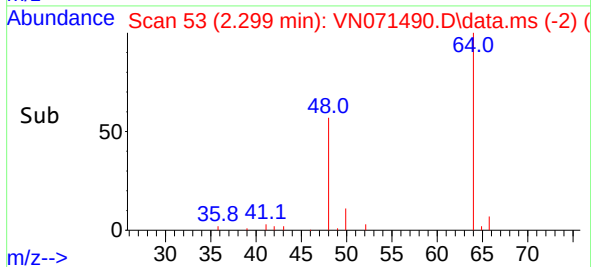
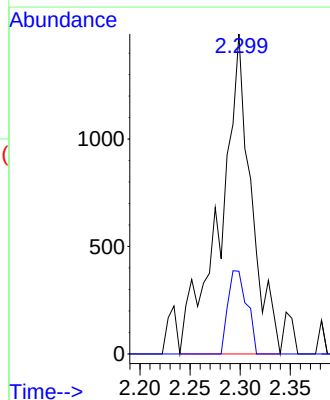
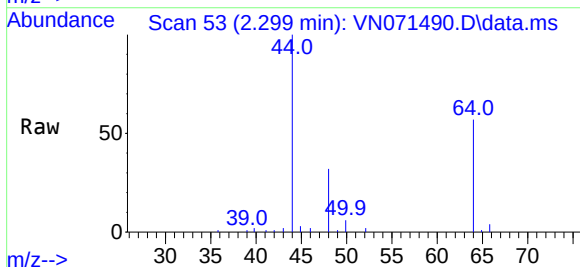
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

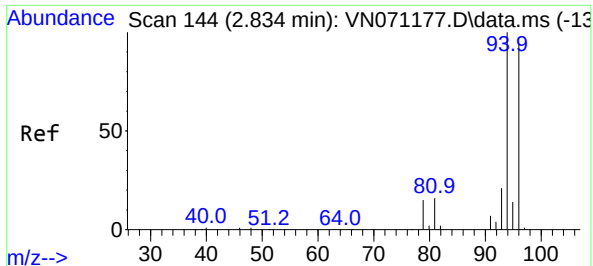
Tgt Ion:168 Resp: 826680
Ion Ratio Lower Upper
168 100
99 58.3 41.3 61.9



#3
Chloromethane
Concen: 0.228 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 50 Resp: 3195
Ion Ratio Lower Upper
50 100
52 25.9 25.4 38.0

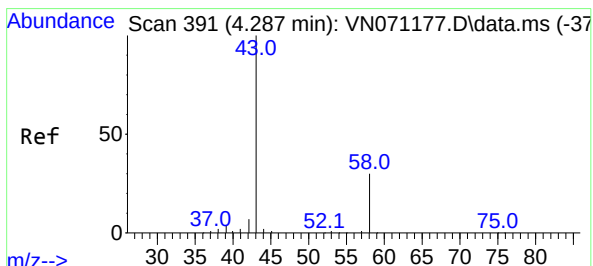
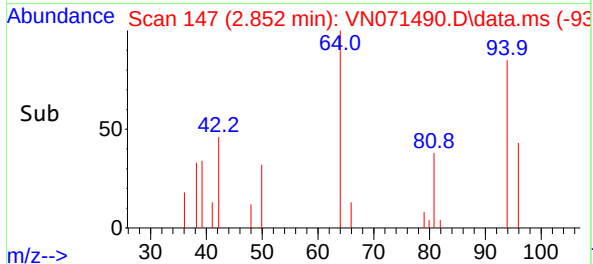
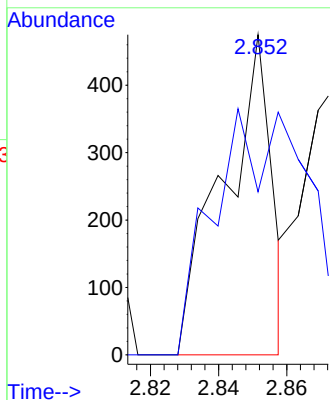
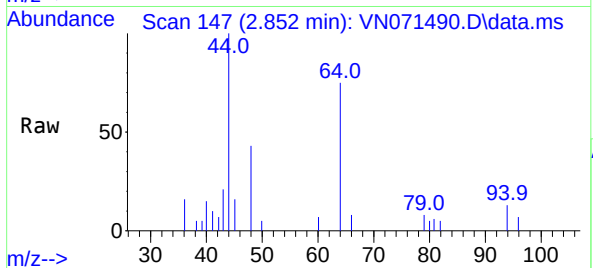




#5
Bromomethane
Concen: Below Cal
RT: 2.852 min Scan# 14
Delta R.T. 0.018 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

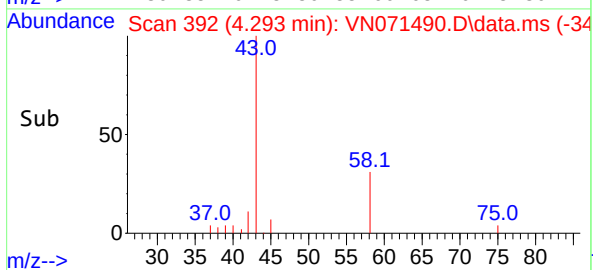
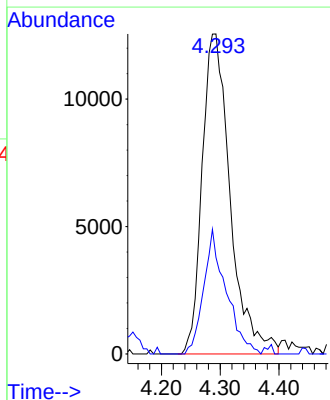
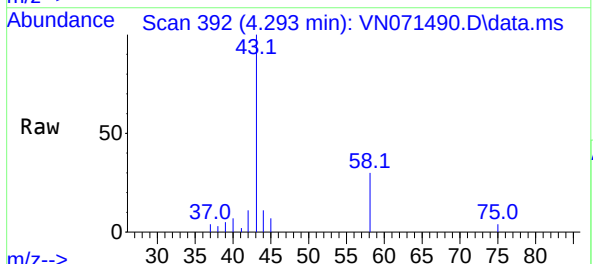
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

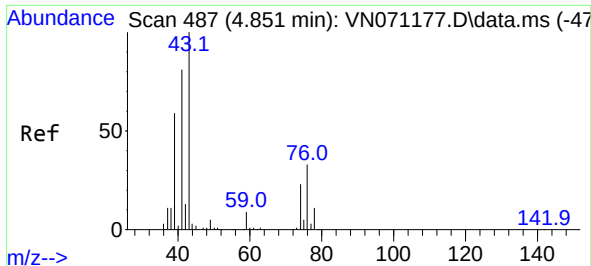
Tgt Ion: 94 Resp: 475
Ion Ratio Lower Upper
94 100
96 50.9 73.8 110.8#



#16
Acetone
Concen: 7.556 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.006 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 43 Resp: 41652
Ion Ratio Lower Upper
43 100
58 30.2 23.1 34.7

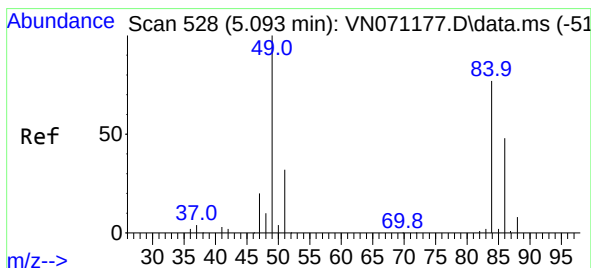
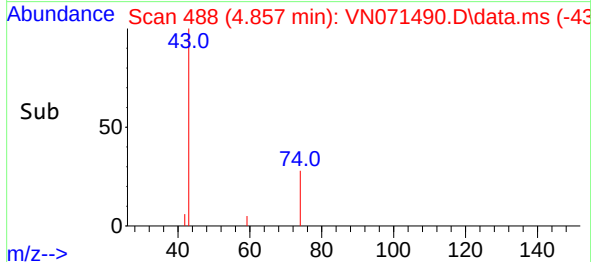
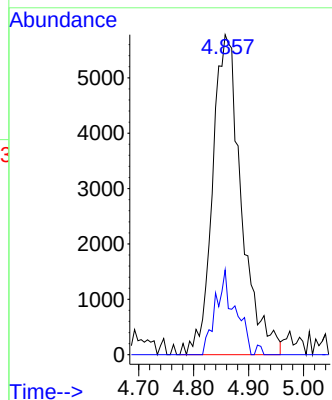
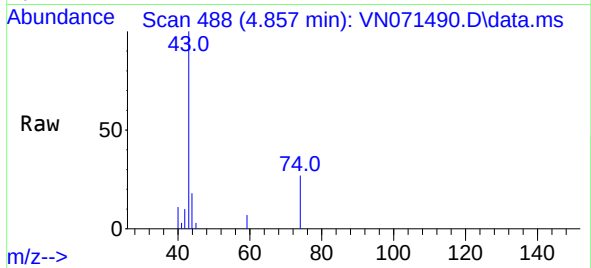




#18
Methyl Acetate
Concen: 1.882 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

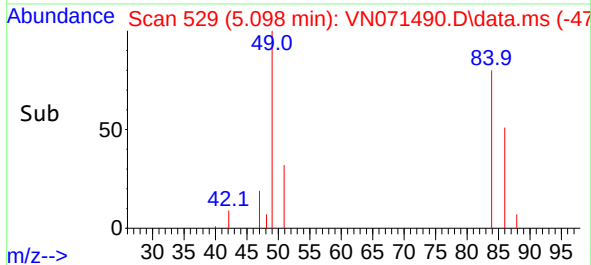
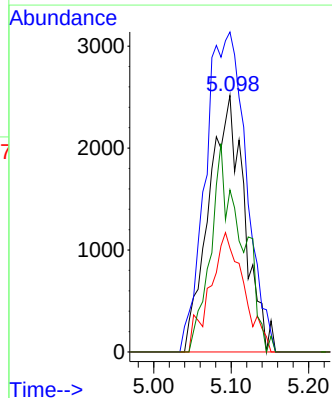
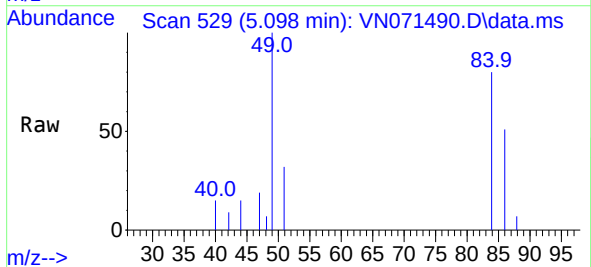
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

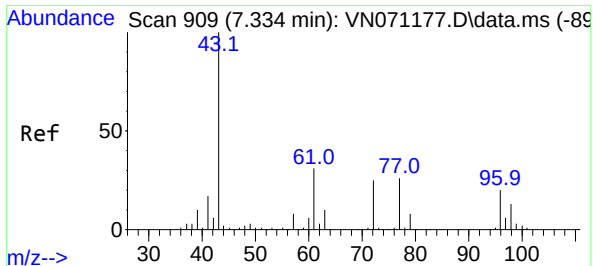
Tgt Ion: 43 Resp: 21104
Ion Ratio Lower Upper
43 100
74 17.8 19.4 29.2#



#20
Methylene Chloride
Concen: 1.174 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 84 Resp: 8039
Ion Ratio Lower Upper
84 100
49 124.8 93.5 140.3
51 40.5 29.4 44.2
86 63.2 53.0 79.4





#25

2-Butanone

Concen: 0.920 ug/l

RT: 7.328 min Scan# 909

Delta R.T. -0.006 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

Instrument :

MSVOA_N

ClientSampleId :

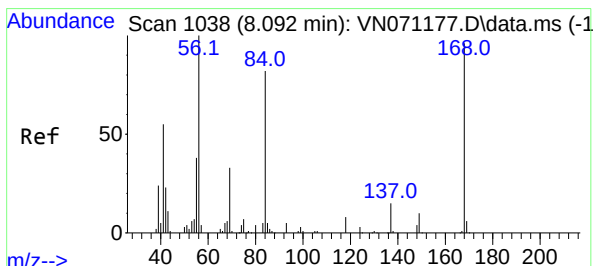
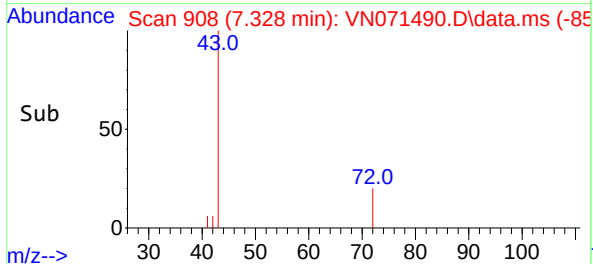
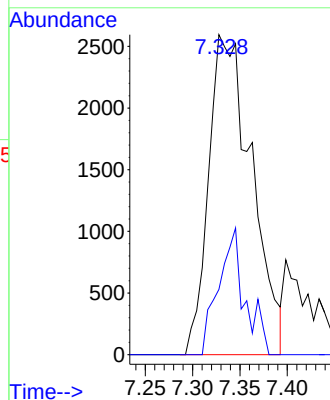
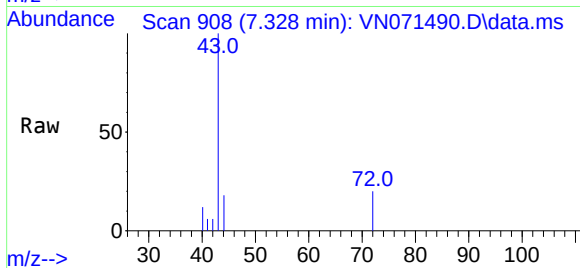
G-6-4-6-7

Tgt Ion: 43 Resp: 8169

Ion Ratio Lower Upper

43 100

72 20.4 21.7 32.5#



#31

Cyclohexane

Concen: 1.003 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

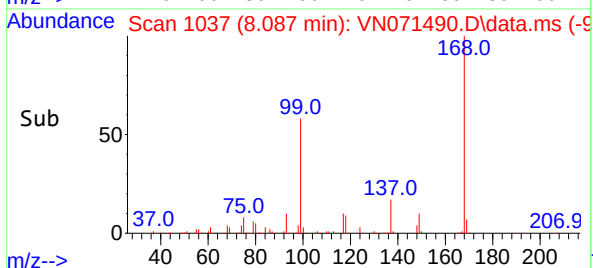
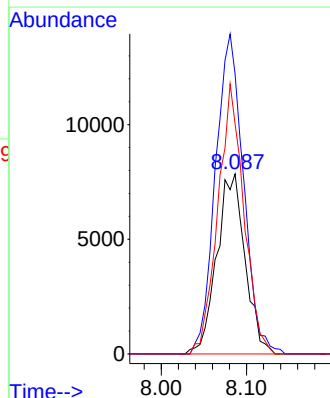
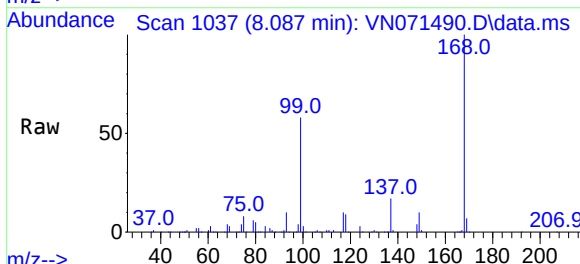
Tgt Ion: 56 Resp: 18144

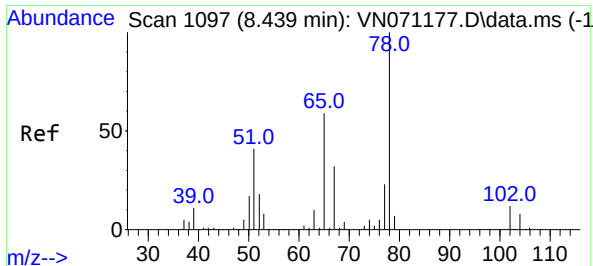
Ion Ratio Lower Upper

56 100

69 155.5 27.1 40.7#

84 127.8 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 49.023 ug/l

RT: 8.434 min Scan# 110

Delta R.T. -0.006 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

Instrument :

MSVOA_N

ClientSampleId :

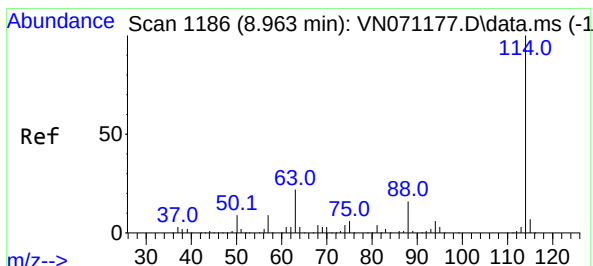
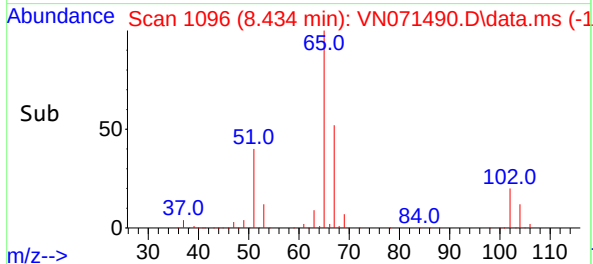
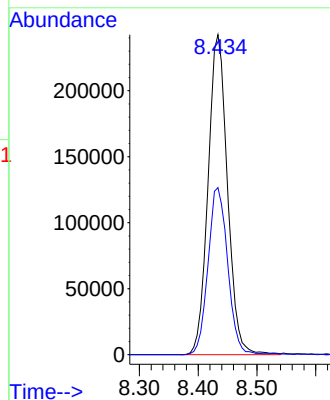
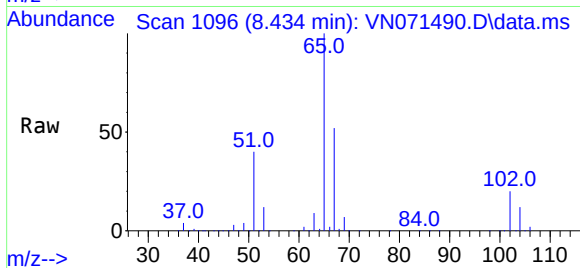
G-6-4-6-7

Tgt Ion: 65 Resp: 555427

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

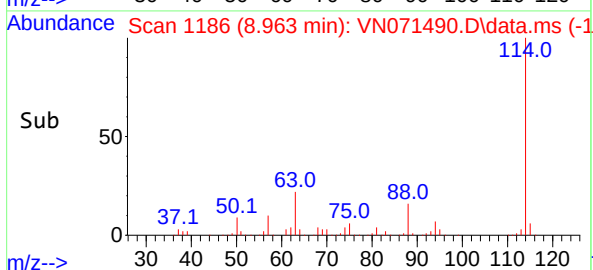
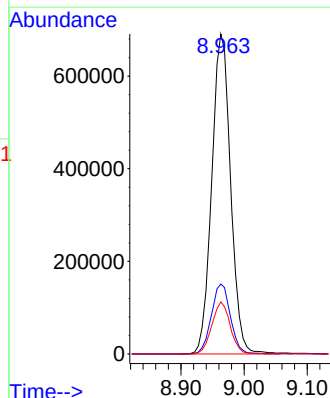
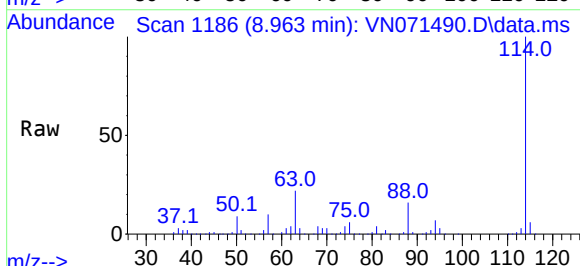
Tgt Ion:114 Resp: 1432358

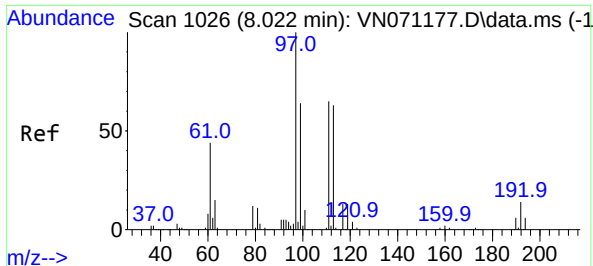
Ion Ratio Lower Upper

114 100

63 21.9 0.0 37.8

88 16.3 0.0 27.4





#35

Dibromofluoromethane

Concen: 45.824 ug/l

RT: 8.016 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

Instrument :

MSVOA_N

ClientSampleId :

G-6-4-6-7

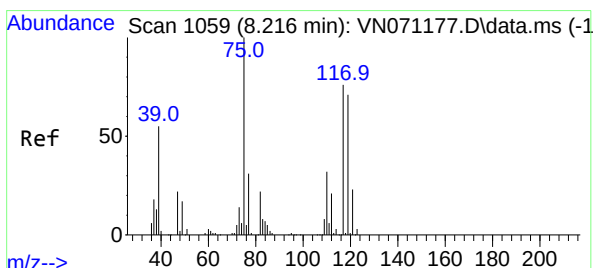
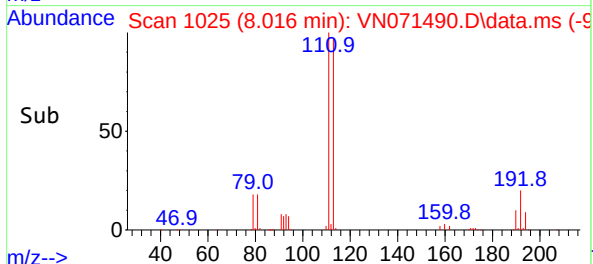
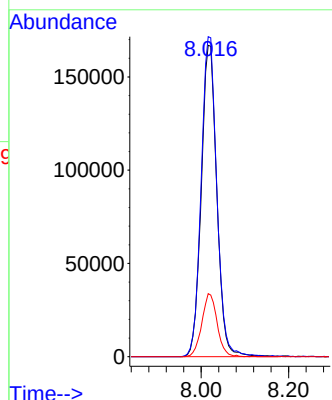
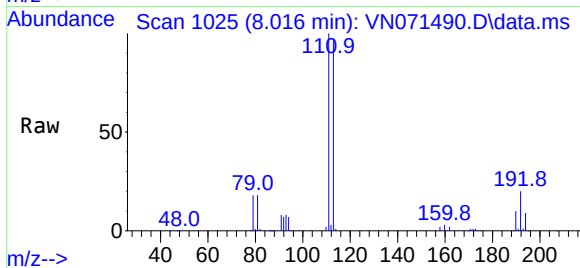
Tgt Ion:113 Resp: 414184

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

192 19.9 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.543 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

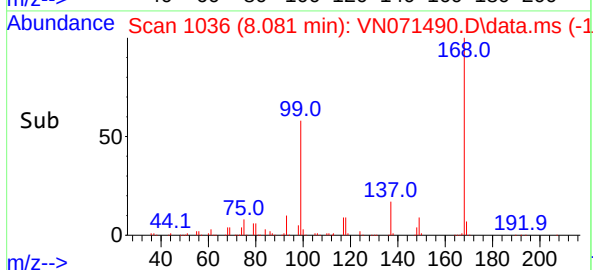
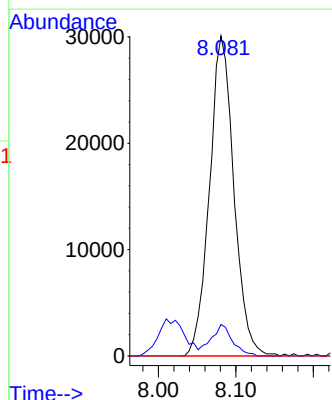
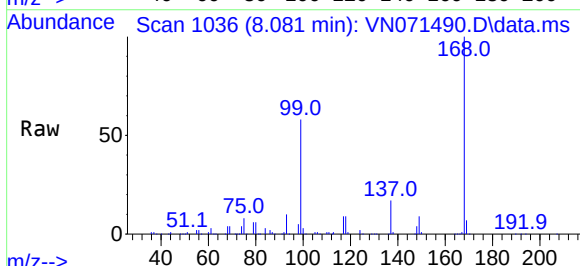
Tgt Ion: 75 Resp: 65795

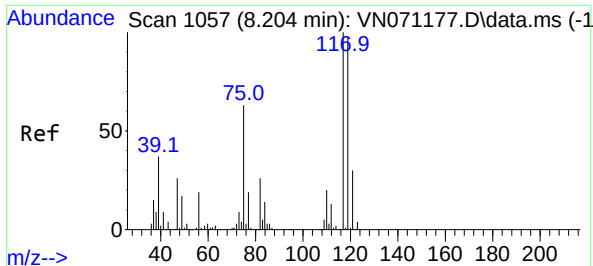
Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.2#

77 0.0 24.4 36.6#

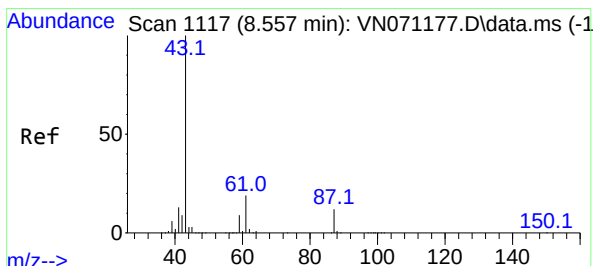
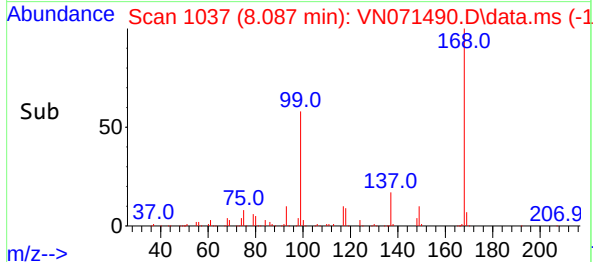
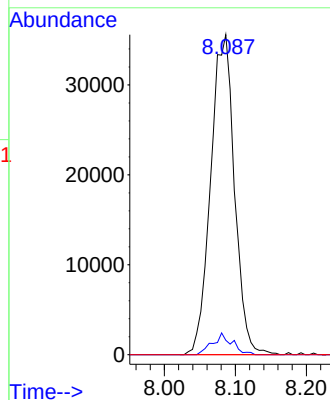
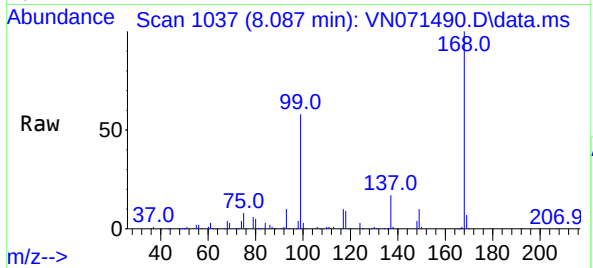




#38
Carbon Tetrachloride
Concen: 5.913 ug/l
RT: 8.087 min Scan# 1107
Delta R.T. -0.118 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

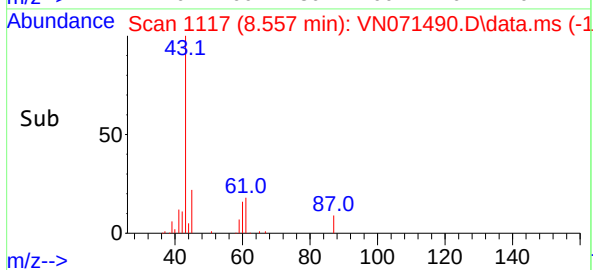
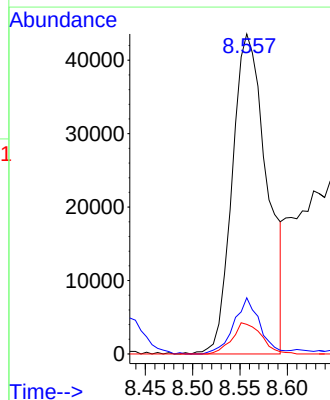
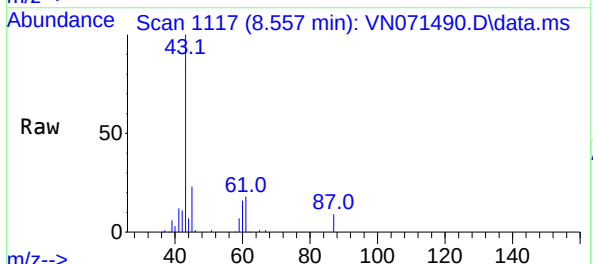
Instrument :
MSVOA_N
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G-6-4-6-7

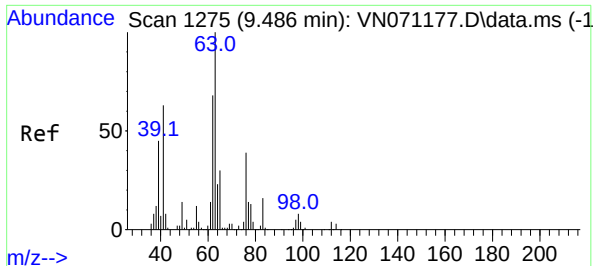
Tgt Ion:117 Resp: 82827
Ion Ratio Lower Upper
117 100
119 4.5 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 3.733 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 43 Resp: 111252
Ion Ratio Lower Upper
43 100
61 13.2 20.4 30.6#
87 8.2 11.2 16.8#

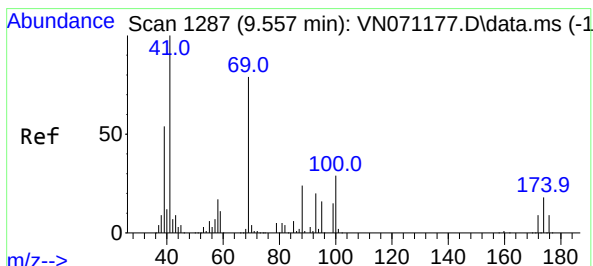
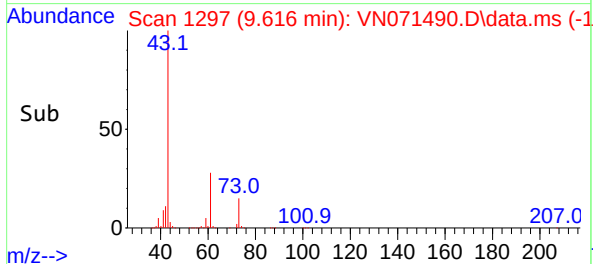
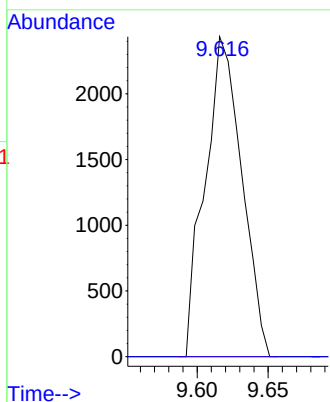
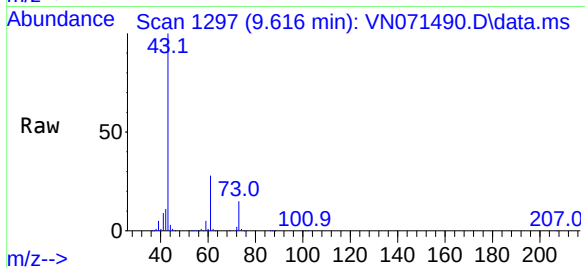




#45
1,2-Dichloropropane
Concen: 0.374 ug/l
RT: 9.616 min Scan# 11
Delta R.T. 0.130 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

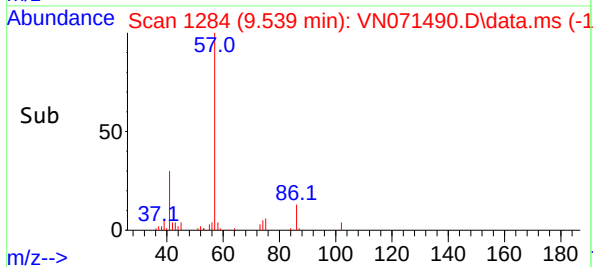
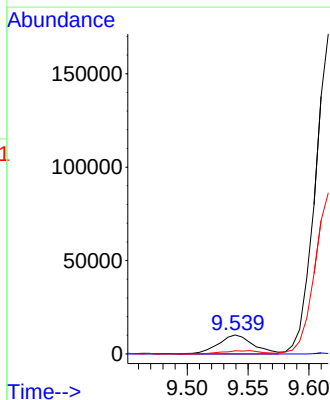
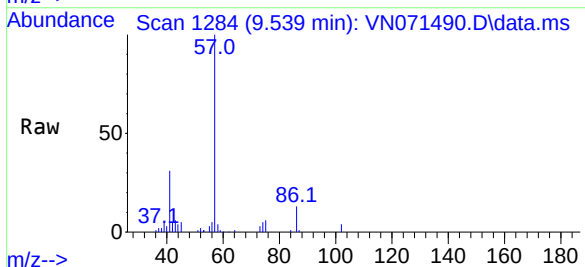
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

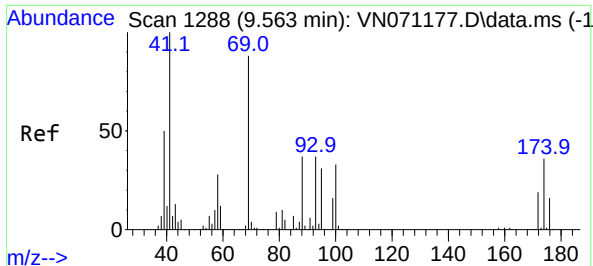
Tgt Ion: 63 Resp: 4385
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#



#48
Methyl methacrylate
Concen: 1.471 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.018 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 41 Resp: 20318
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#

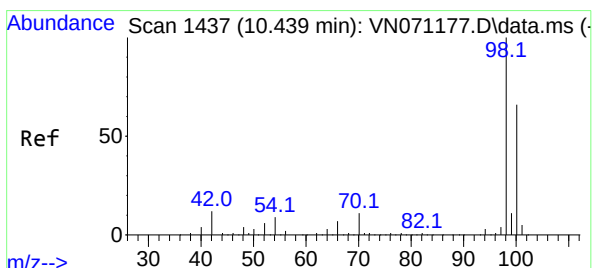
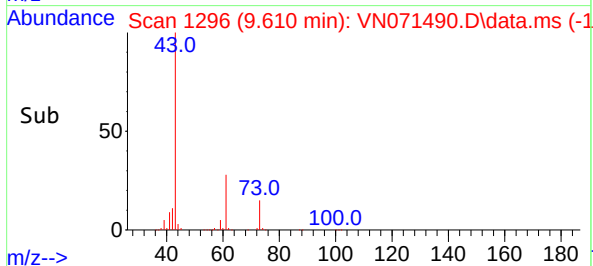
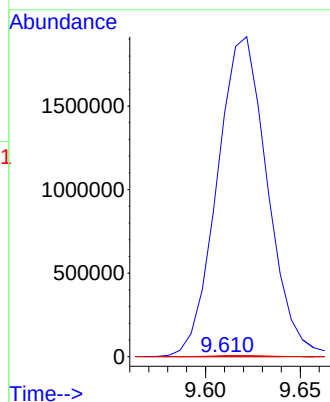
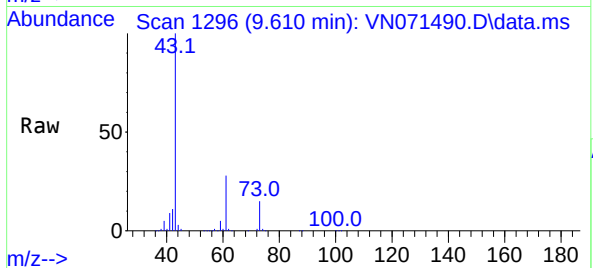




#49
1,4-Dioxane
Concen: 2.399 ug/l
RT: 9.610 min Scan# 1296
Delta R.T. 0.047 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

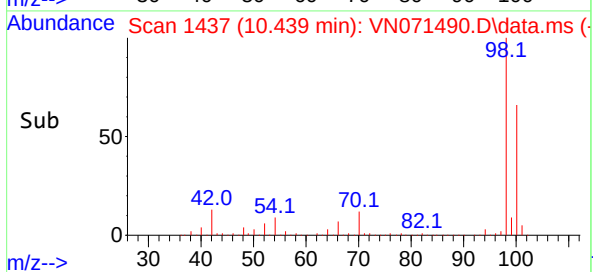
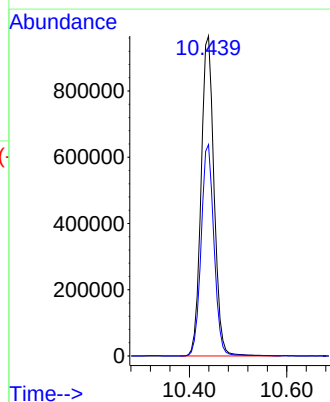
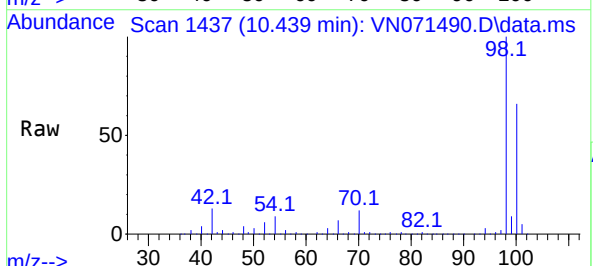
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

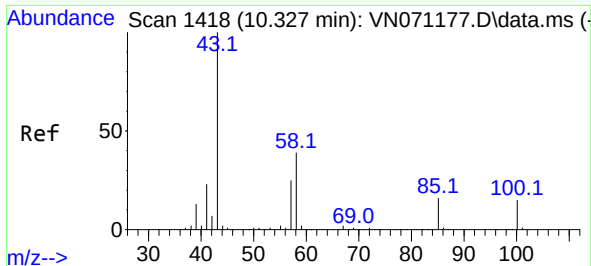
Tgt Ion: 88 Resp: 576
Ion Ratio Lower Upper
88 100
43 625177.1 23.4 35.2#
58 2697.0 50.6 75.8#



#50
Toluene-d8
Concen: 48.906 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 98 Resp: 1779826
Ion Ratio Lower Upper
98 100
100 65.7 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.732 ug/l

RT: 10.322 min Scan# 1418

Delta R.T. -0.005 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

Instrument :

MSVOA_N

ClientSampleId :

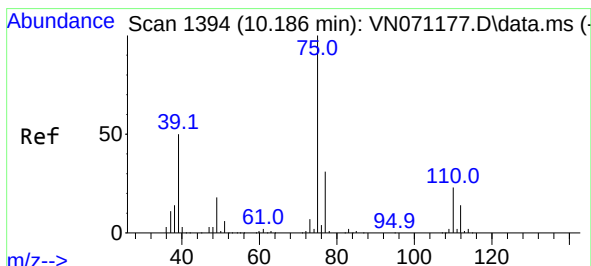
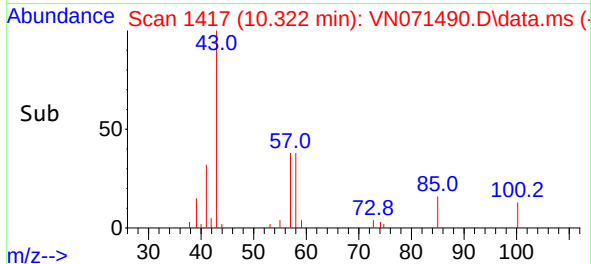
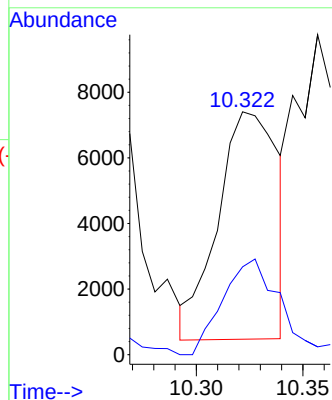
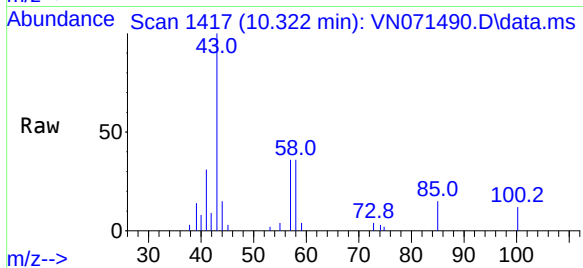
G-6-4-6-7

Tgt Ion: 43 Resp: 13540

Ion Ratio Lower Upper

43 100

58 40.6 30.4 45.6



#54

cis-1,3-Dichloropropene

Concen: 5.888 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.053 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

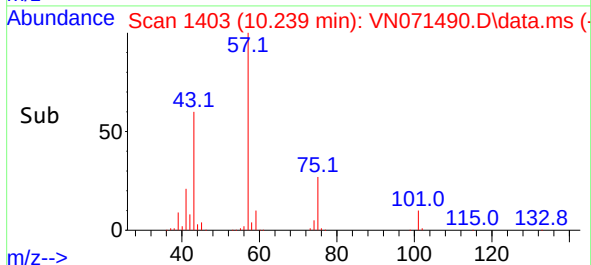
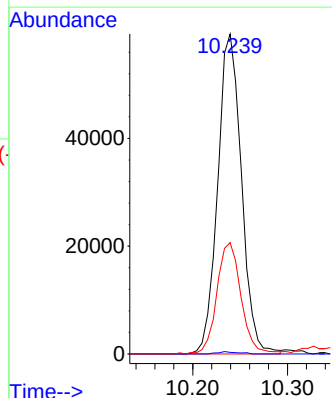
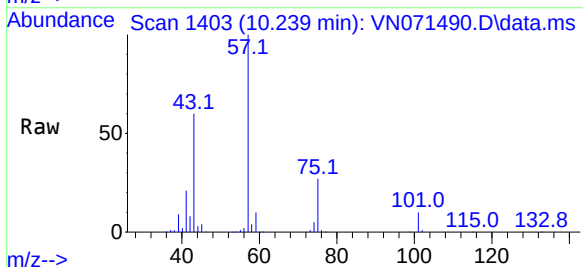
Tgt Ion: 75 Resp: 103330

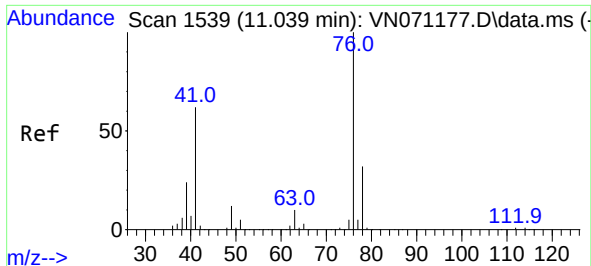
Ion Ratio Lower Upper

75 100

77 0.5 26.4 39.6#

39 34.5 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 2.654 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071490.D

Acq: 23 Mar 2022 02:12

Instrument :

MSVOA_N

ClientSampleId :

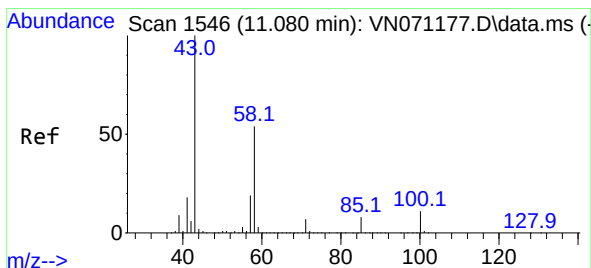
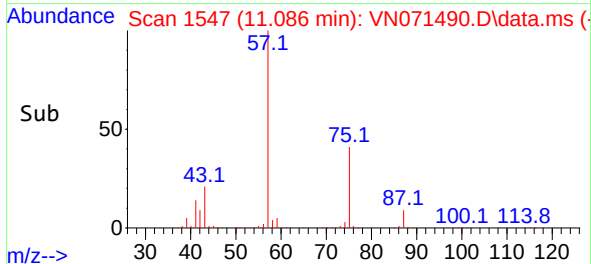
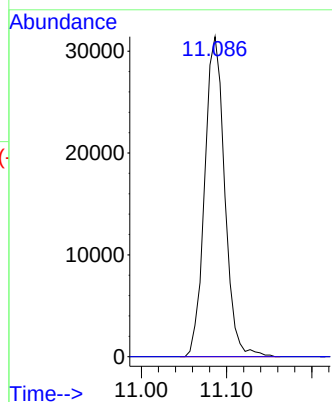
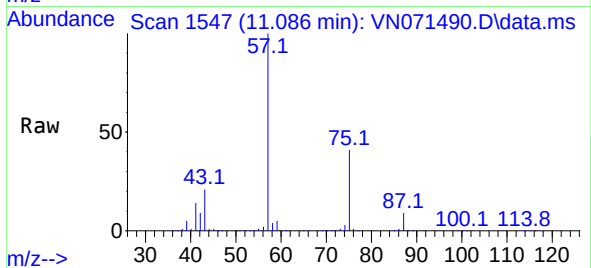
G-6-4-6-7

Tgt Ion: 76 Resp: 51291

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 65.376 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071490.D

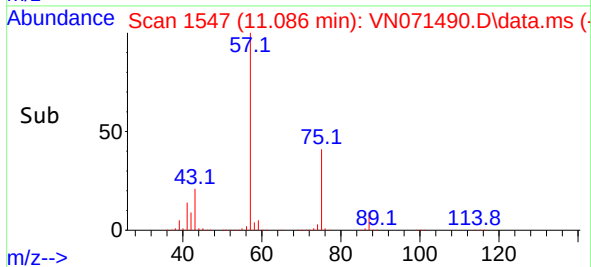
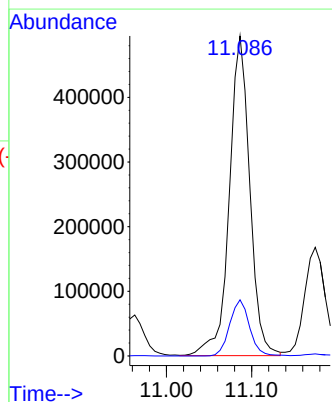
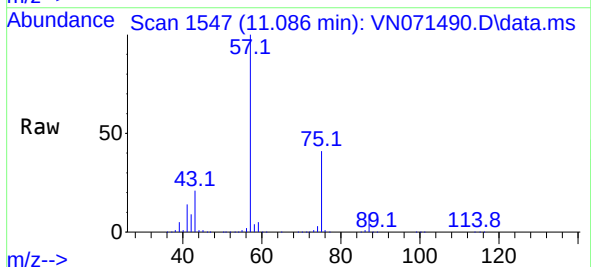
Acq: 23 Mar 2022 02:12

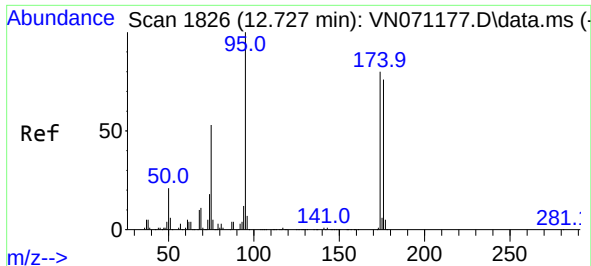
Tgt Ion: 43 Resp: 825084

Ion Ratio Lower Upper

43 100

58 17.0 26.9 80.7#

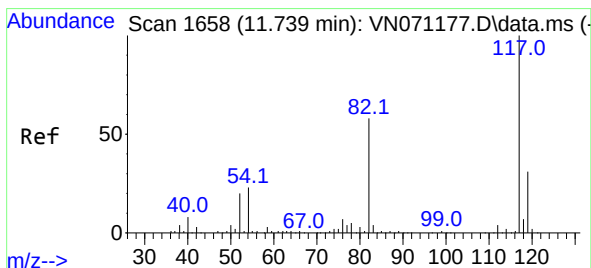
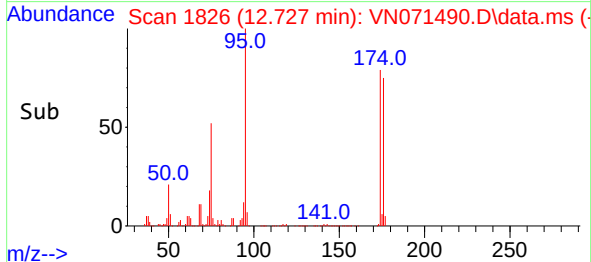
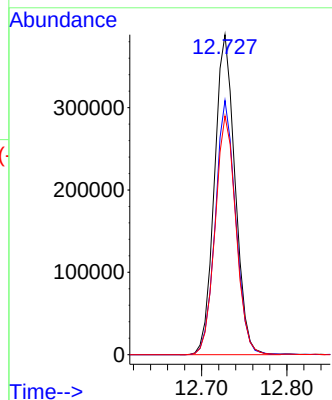
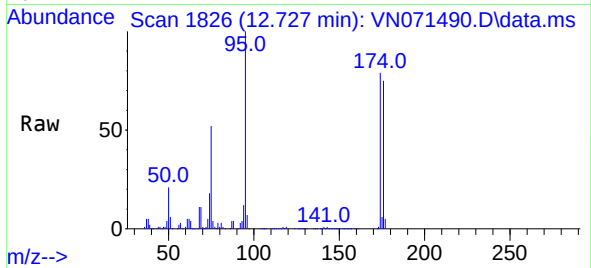




#62
4-Bromofluorobenzene
Concen: 52.928 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

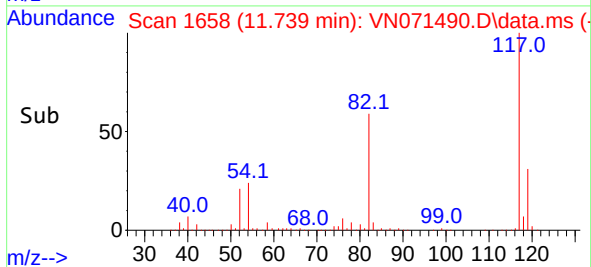
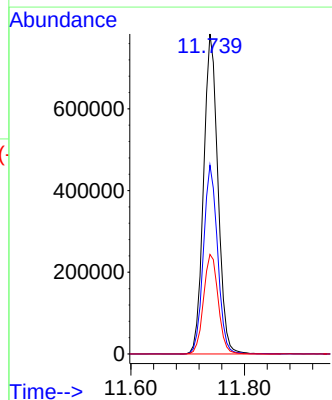
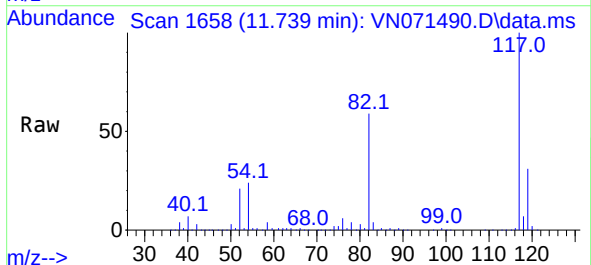
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

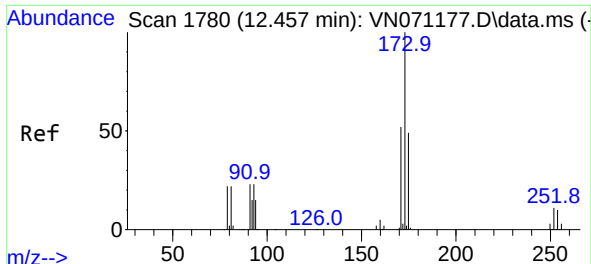
Tgt Ion: 95 Resp: 652250
Ion Ratio Lower Upper
95 100
174 78.5 0.0 187.2
176 75.2 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 117 Resp: 1365699
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 31.1 25.4 38.2

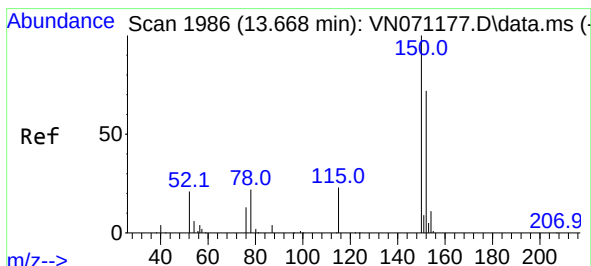
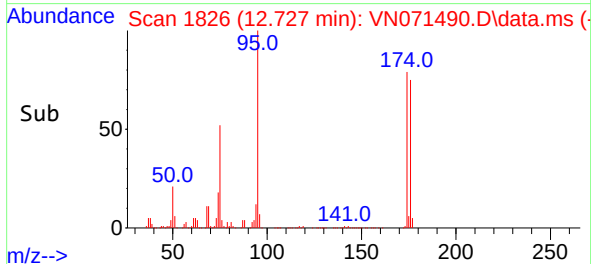
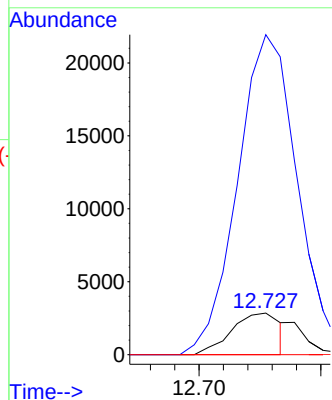
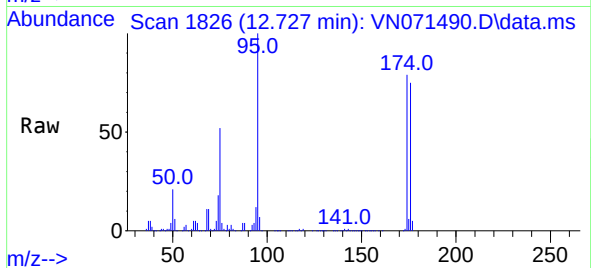




#71
Bromoform
Concen: 0.489 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

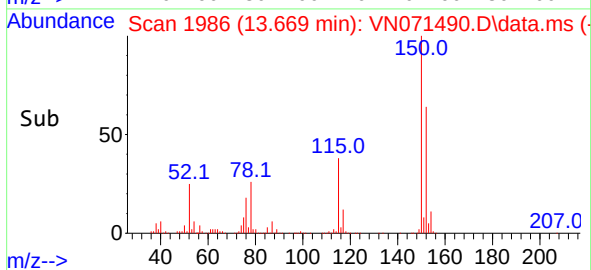
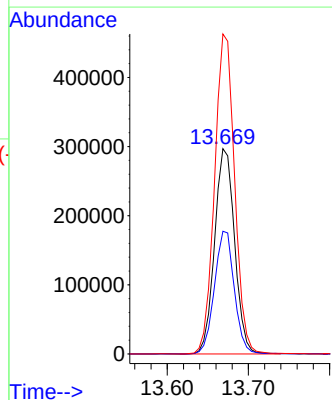
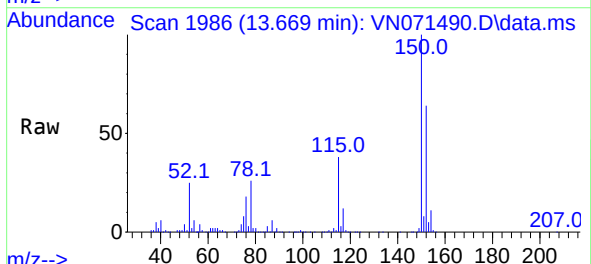
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

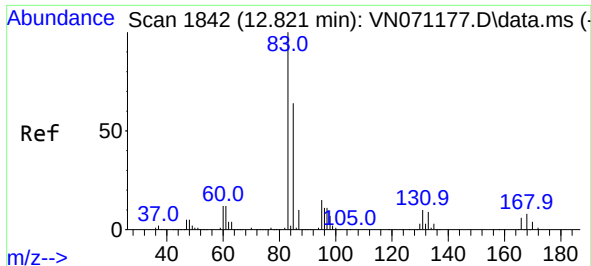
Tgt Ion:173 Resp: 3995
Ion Ratio Lower Upper
173 100
175 719.2 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.001 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion:152 Resp: 509768
Ion Ratio Lower Upper
152 100
115 59.3 27.5 82.5
150 156.2 0.0 344.4

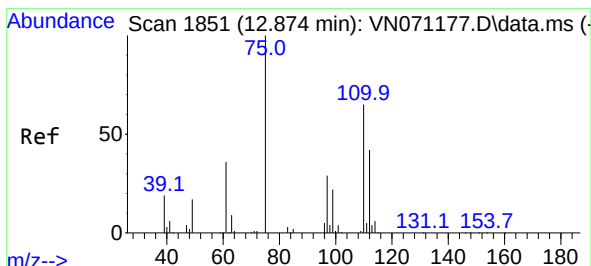
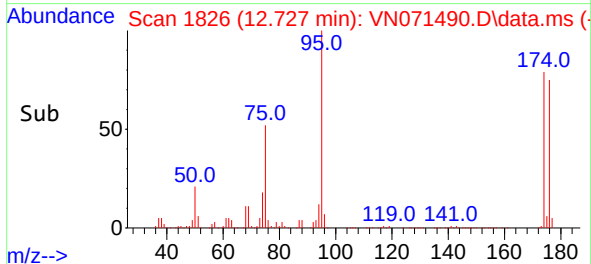
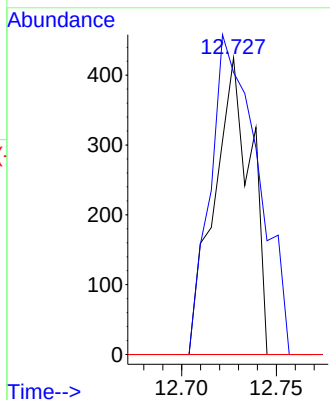
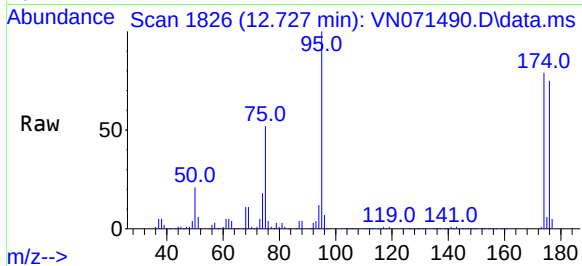




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.727 min Scan# 1826
Delta R.T. -0.094 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

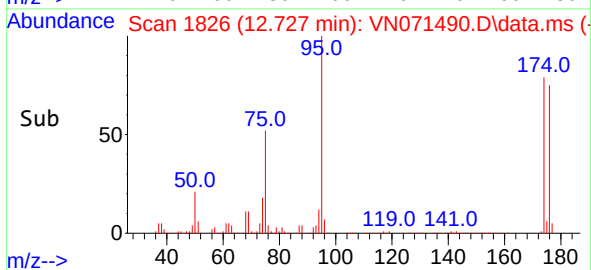
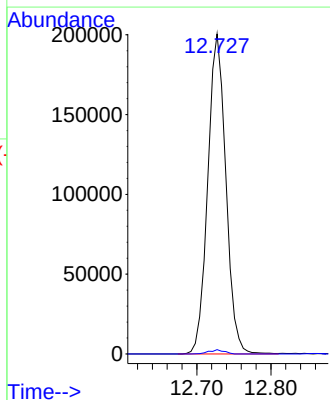
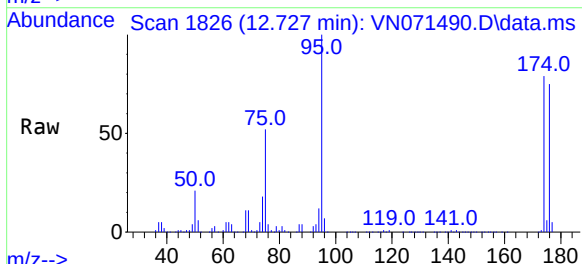
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

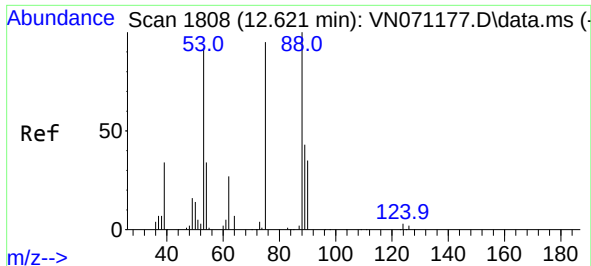
Tgt Ion: 83 Resp: 578
Ion Ratio Lower Upper
83 100
131 137.9 5.5 16.5#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 26.158 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion: 75 Resp: 339814
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

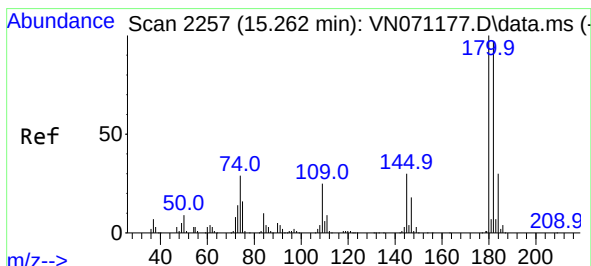
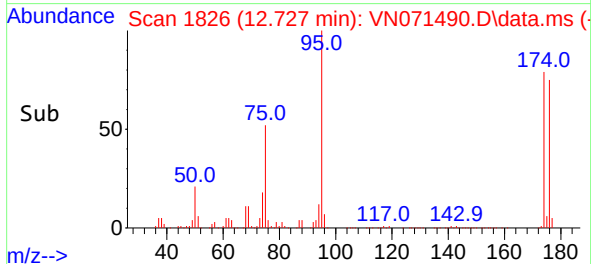
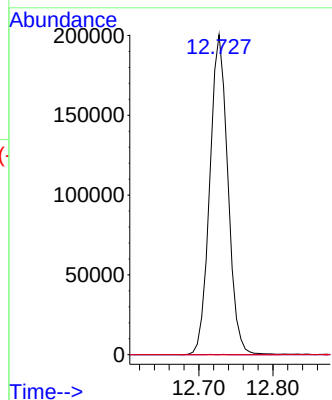
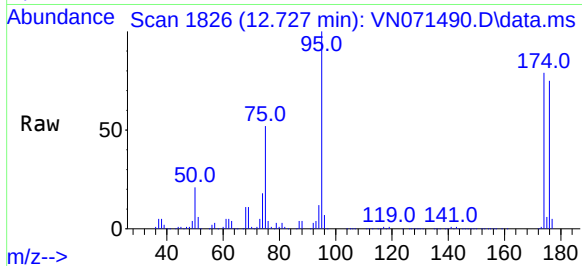




#81
trans-1,4-Dichloro-2-butene
Concen: 72.060 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

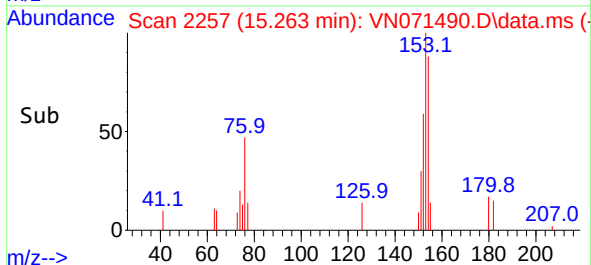
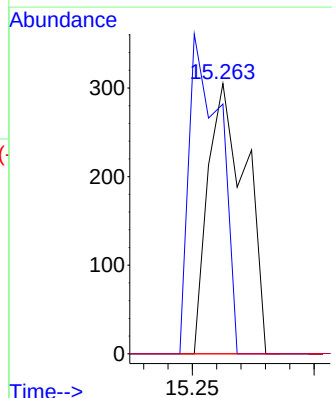
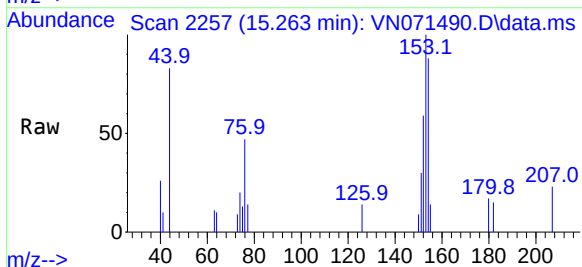
Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

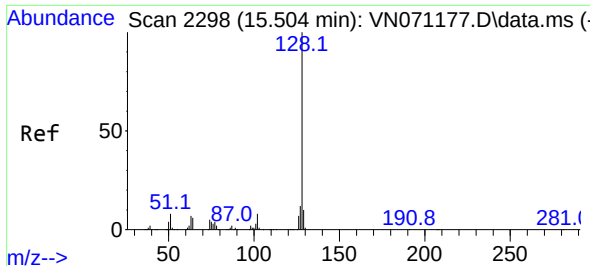
Tgt Ion: 75 Resp: 339814
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 3.026 ug/l
RT: 15.263 min Scan# 2257
Delta R.T. 0.001 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion:180 Resp: 330
Ion Ratio Lower Upper
180 100
182 97.3 48.3 144.9
145 0.0 14.5 43.5#

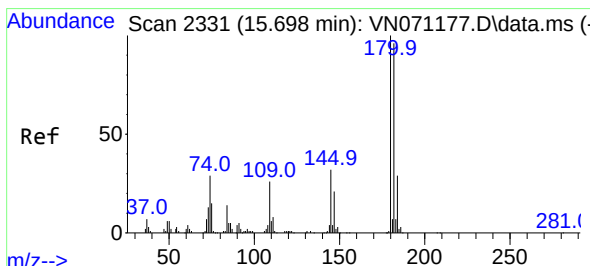
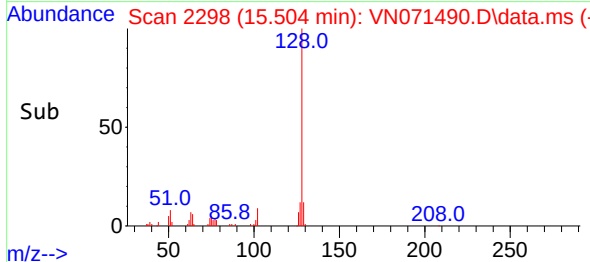
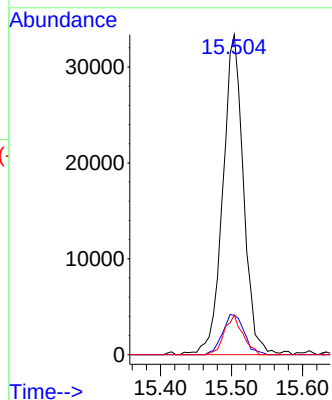
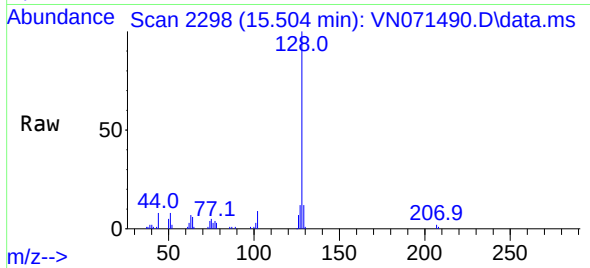




#95
Naphthalene
Concen: 7.657 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Instrument :
MSVOA_N
ClientSampleId :
G-6-4-6-7

Tgt Ion:128 Resp: 67347
Ion Ratio Lower Upper
128 100
127 13.2 10.5 15.7
129 11.0 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.794 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. -0.000 min
Lab File: VN071490.D
Acq: 23 Mar 2022 02:12

Tgt Ion:180 Resp: 528
Ion Ratio Lower Upper
180 100
182 53.6 47.4 142.2
145 0.0 15.0 45.1#

