

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032122\
 Data File : VN071427.D
 Acq On : 21 Mar 2022 18:53
 Operator : JC\MD
 Sample : N2010-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC1-220316

Quant Time: Mar 22 06:21:23 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)

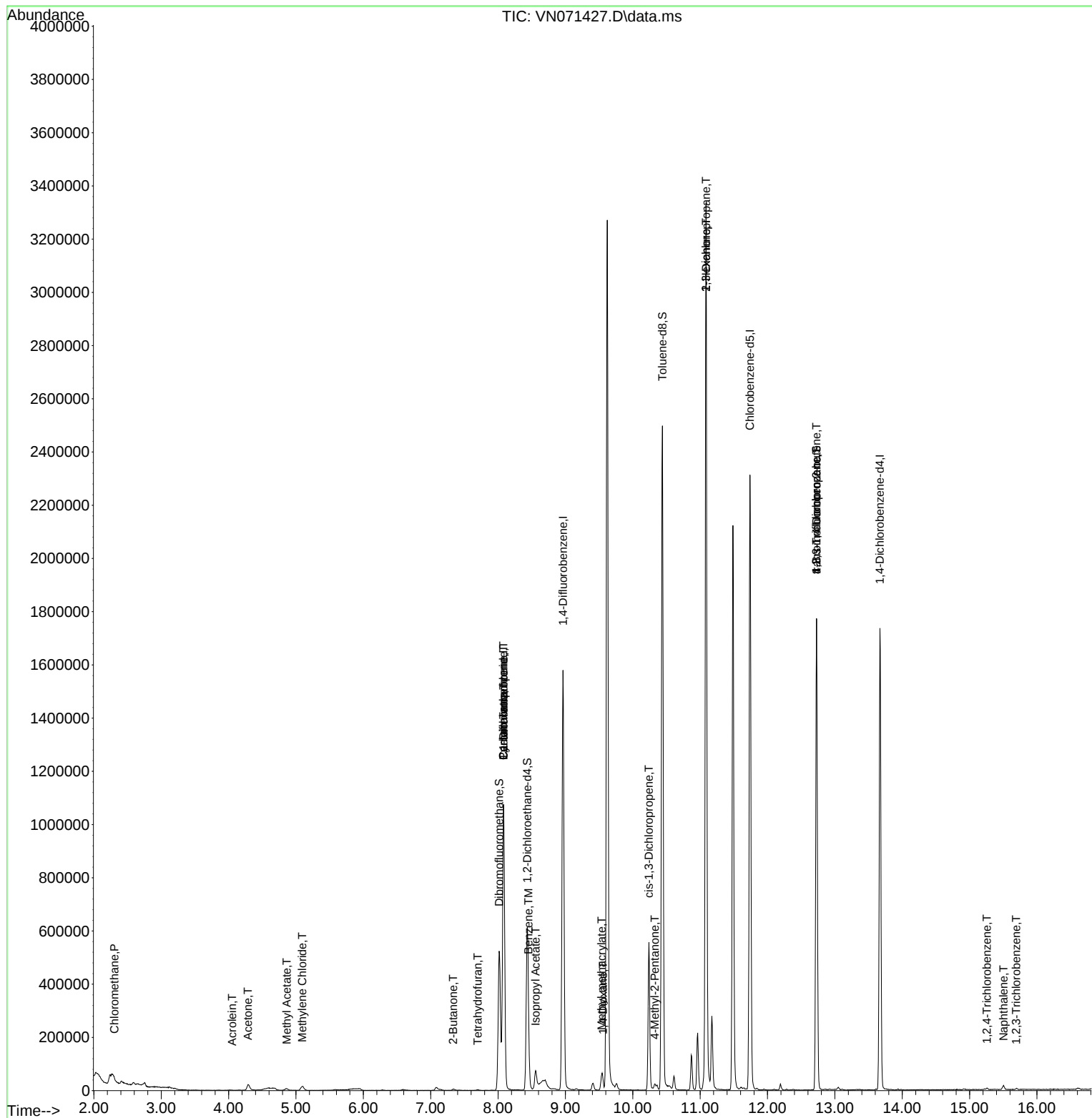
Internal Standards						
1) Pentafluorobenzene	8.081	168	815068	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1369596	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1313356	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	474042	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	514510	46.058	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.120%		
35) Dibromofluoromethane	8.016	113	388857	44.993	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	89.980%		
50) Toluene-d8	10.439	98	1697553	48.783	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.560%		
62) 4-Bromofluorobenzene	12.727	95	619809	52.600	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.200%		
Target Compounds					Qvalue	
3) Chloromethane	2.305	50	3696	0.274	ug/l	89
5) Bromomethane	2.857	94	2086	Below Cal	#	63
13) Acrolein	4.051	56	836	0.360	ug/l	96
16) Acetone	4.287	43	36311	6.681	ug/l	91
18) Methyl Acetate	4.863	43	15057	1.492	ug/l	90
20) Methylene Chloride	5.093	84	12525	1.633	ug/l	# 91
25) 2-Butanone	7.334	43	8692	0.993	ug/l	93
29) Tetrahydrofuran	7.698	42	1983	0.327	ug/l	# 51
31) Cyclohexane	8.081	56	17649	0.989	ug/l	# 1
36) 1,1-Dichloropropene	8.081	75	63718	4.601	ug/l	# 49
38) Carbon Tetrachloride	8.081	117	81630	6.095	ug/l	# 17
40) Benzene	8.451	78	27360	0.656	ug/l	98
43) Isopropyl Acetate	8.557	43	90928	3.191	ug/l	# 84
48) Methyl methacrylate	9.539	41	20191	1.529	ug/l	# 8
49) 1,4-Dioxane	9.557	88	217	0.945	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.328	43	14318	0.810	ug/l	92
54) cis-1,3-Dichloropropene	10.239	75	94953	5.659	ug/l	# 60
57) 1,3-Dichloropropane	11.086	76	34463	1.865	ug/l	# 43
59) 2-Hexanone	11.086	43	552266	45.764	ug/l	# 49
75) 1,1,2,2-Tetrachloroethane	12.827	83	210	Below Cal	#	55
76) 1,2,3-Trichloropropane	12.727	75	318852	26.421	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	318852	72.710	ug/l	# 5
93) 1,2,4-Trichlorobenzene	15.257	180	1256	3.141	ug/l	89
95) Naphthalene	15.504	128	15255	5.698	ug/l	100
96) 1,2,3-Trichlorobenzene	15.692	180	1577	2.932	ug/l	83

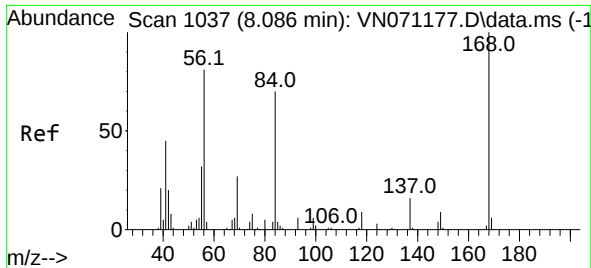
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 22 06:21:23 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

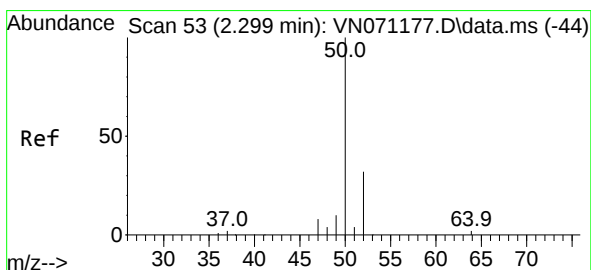
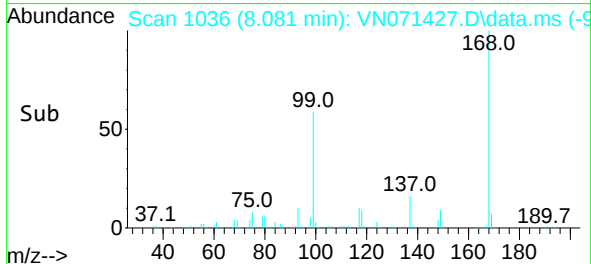
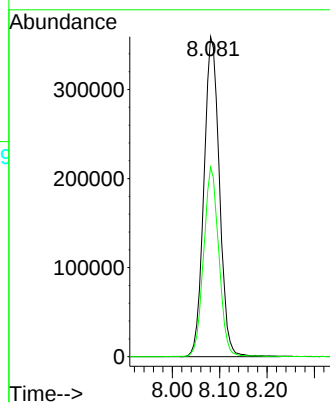
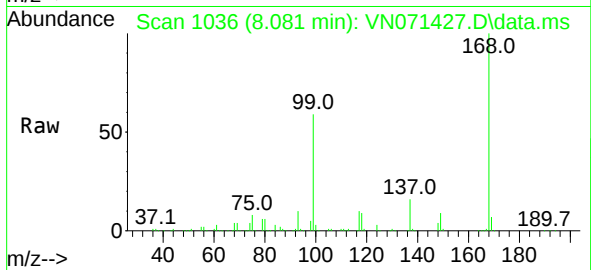




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

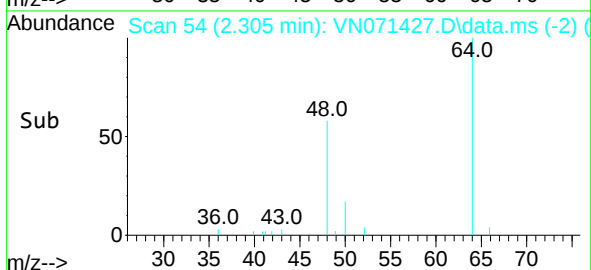
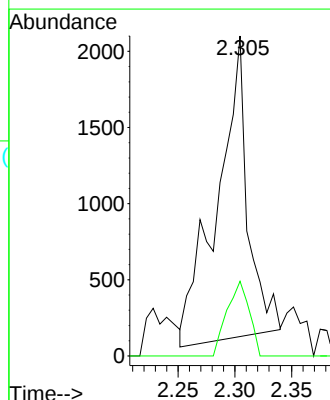
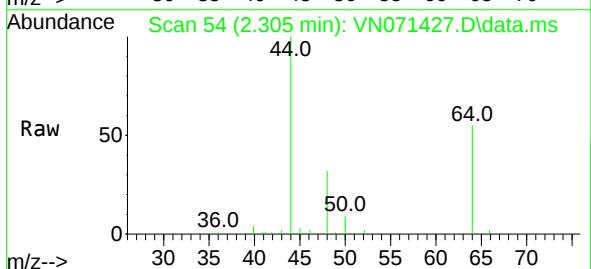
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

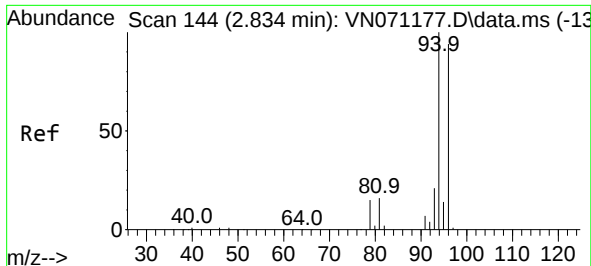
Tgt Ion:168 Resp: 815068
Ion Ratio Lower Upper
168 100
99 59.2 41.3 61.9



#3
Chloromethane
Concen: 0.274 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 50 Resp: 3696
Ion Ratio Lower Upper
50 100
52 25.5 25.4 38.0

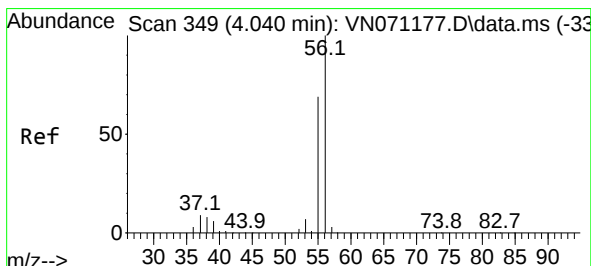
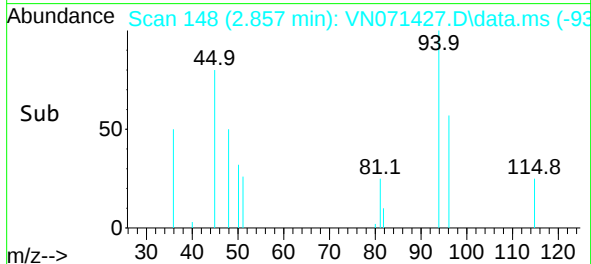
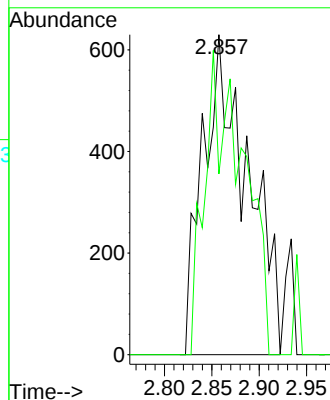
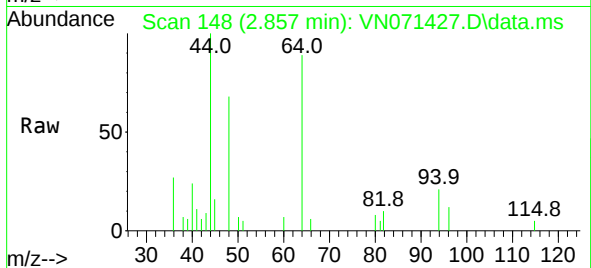




#5
Bromomethane
Concen: Below Cal
RT: 2.857 min Scan# 14
Delta R.T. 0.023 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

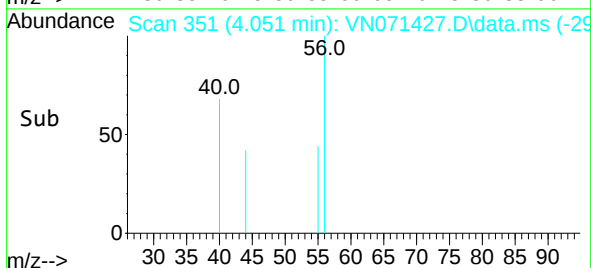
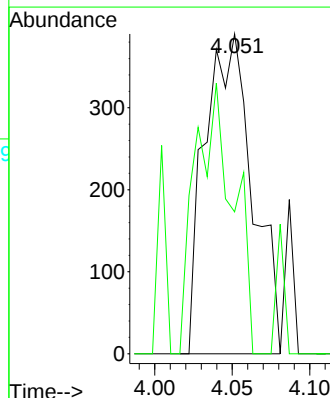
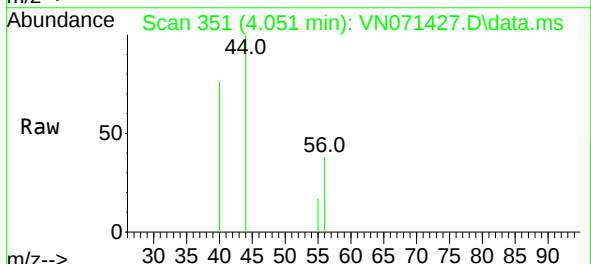
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

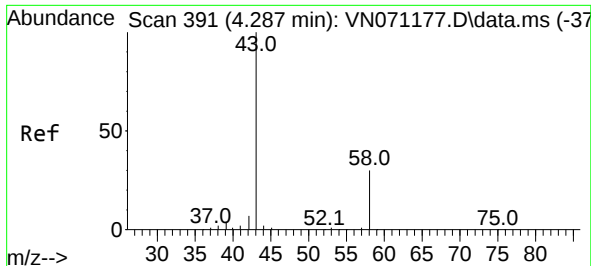
Tgt Ion: 94 Resp: 2086
Ion Ratio Lower Upper
94 100
96 56.5 73.8 110.8#



#13
Acrolein
Concen: 0.360 ug/l
RT: 4.051 min Scan# 351
Delta R.T. 0.012 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 56 Resp: 836
Ion Ratio Lower Upper
56 100
55 67.5 56.6 85.0

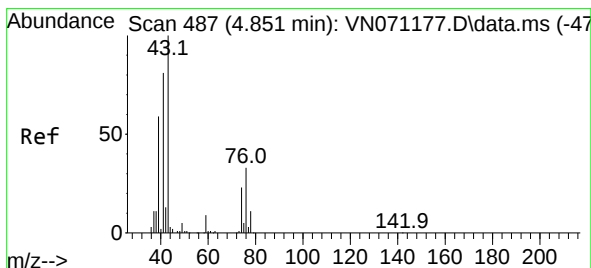
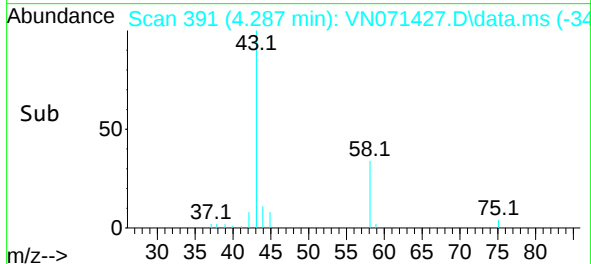
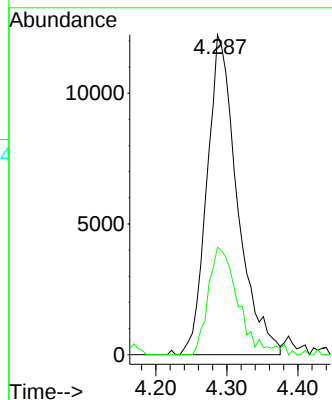
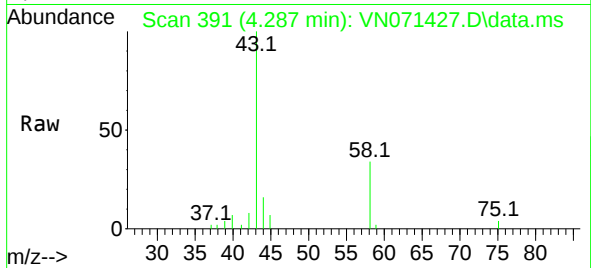




#16
Acetone
Concen: 6.681 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

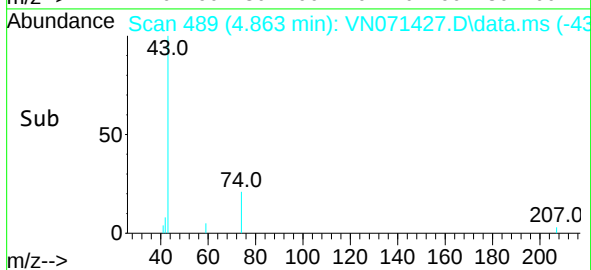
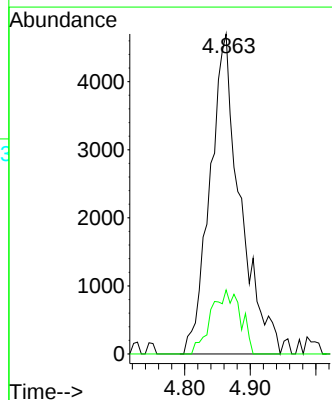
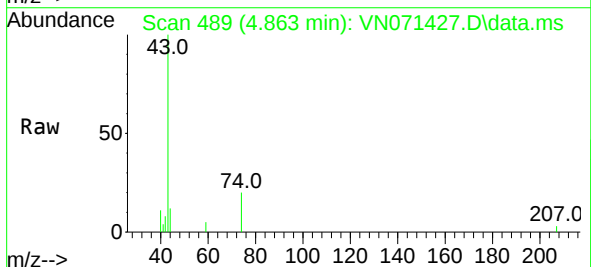
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

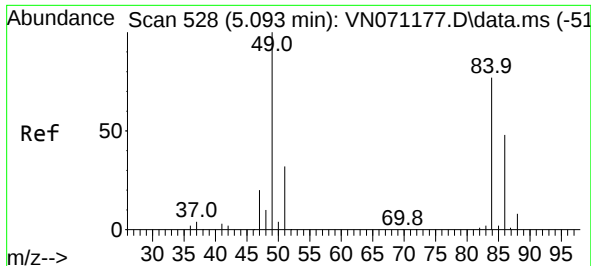
Tgt Ion: 43 Resp: 36311
Ion Ratio Lower Upper
43 100
58 33.6 23.1 34.7



#18
Methyl Acetate
Concen: 1.492 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.012 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

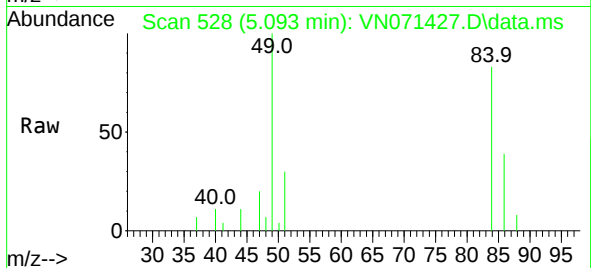
Tgt Ion: 43 Resp: 15057
Ion Ratio Lower Upper
43 100
74 19.4 19.4 29.2



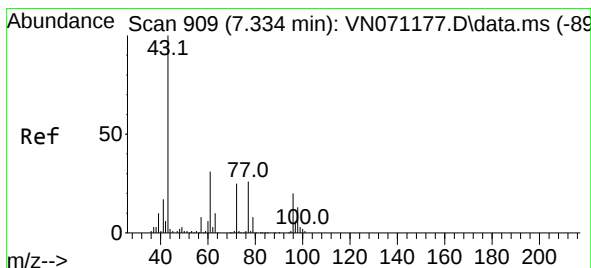
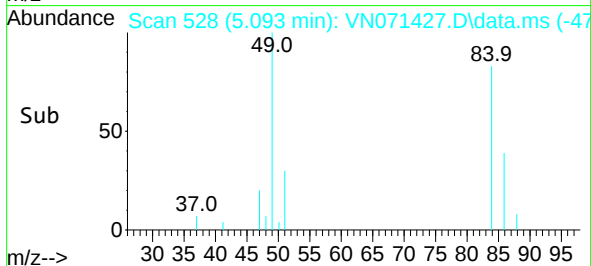
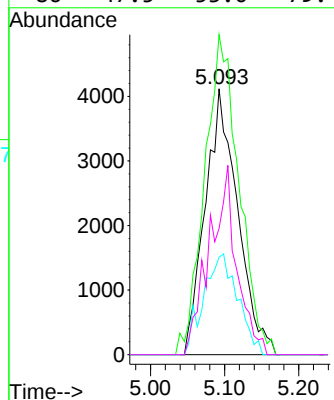


#20
Methylene Chloride
Concen: 1.633 ug/l
RT: 5.093 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

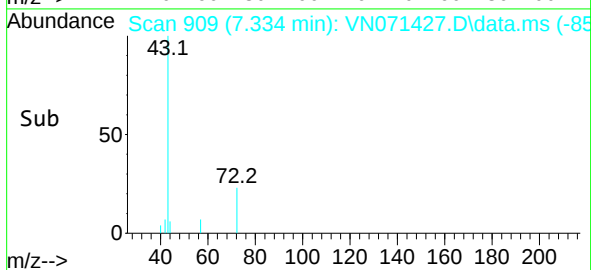
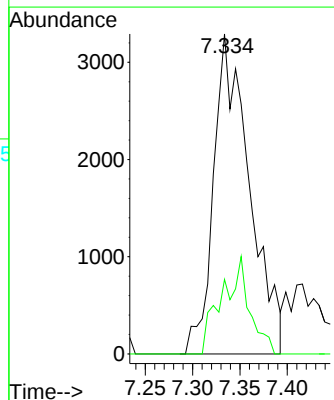
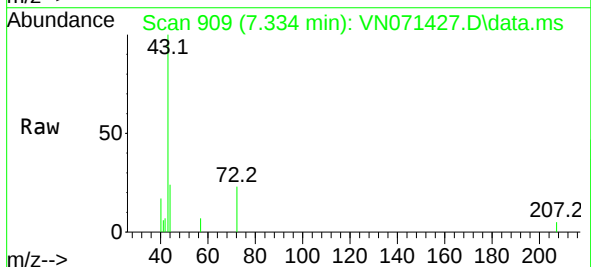


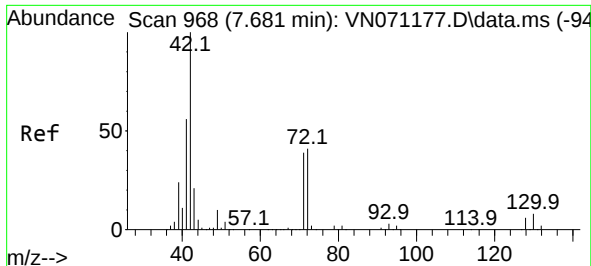
Tgt Ion:	84	Resp:	12525
Ion	Ratio	Lower	Upper
84	100		
49	120.3	93.5	140.3
51	36.6	29.4	44.2
86	47.5	53.0	79.4



#25
2-Butanone
Concen: 0.993 ug/l
RT: 7.334 min Scan# 909
Delta R.T. 0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion:	43	Resp:	8692
Ion	Ratio	Lower	Upper
43	100		
72	23.3	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 7.698 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

WC1-220316

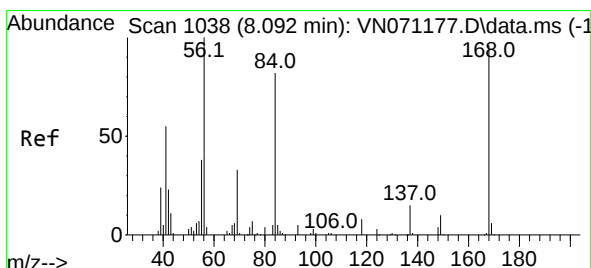
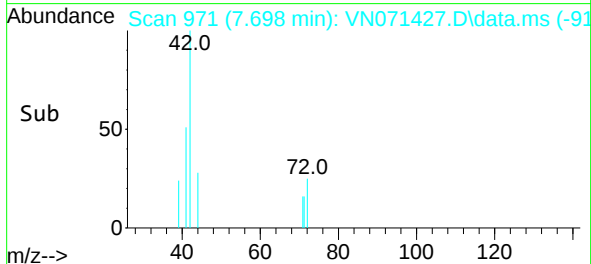
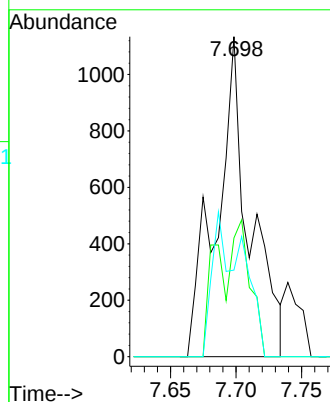
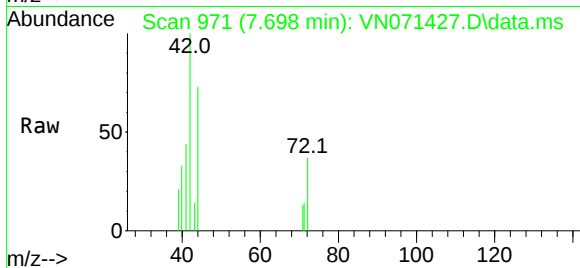
Tgt Ion: 42 Resp: 1983

Ion Ratio Lower Upper

42 100

72 24.3 36.3 54.5#

71 0.0 34.7 52.1#



#31

Cyclohexane

Concen: 0.989 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

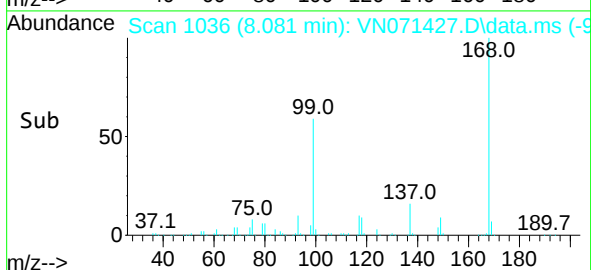
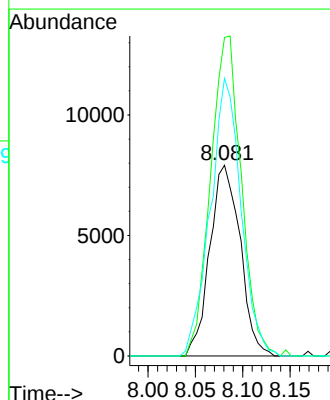
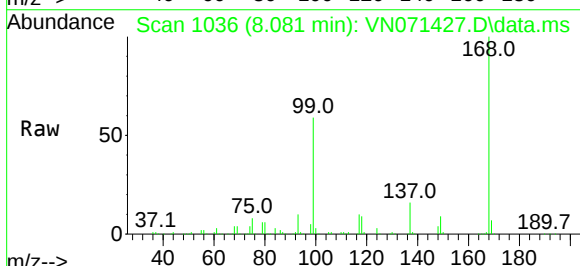
Tgt Ion: 56 Resp: 17649

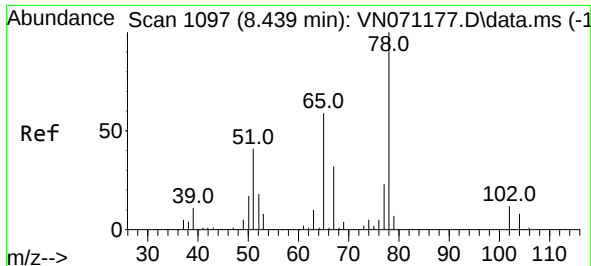
Ion Ratio Lower Upper

56 100

69 167.1 27.1 40.7#

84 145.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 46.058 ug/l

RT: 8.434 min Scan# 1109

Delta R.T. -0.006 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

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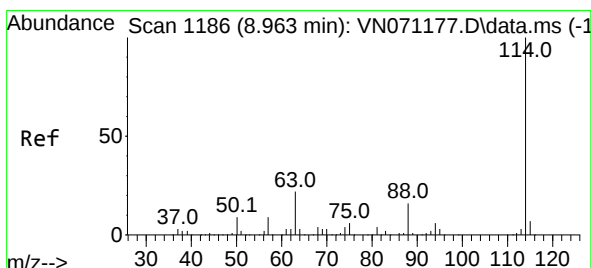
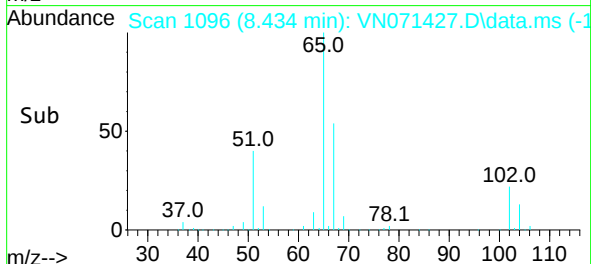
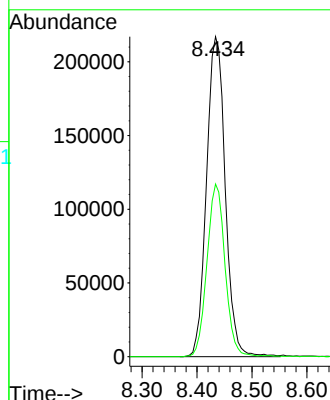
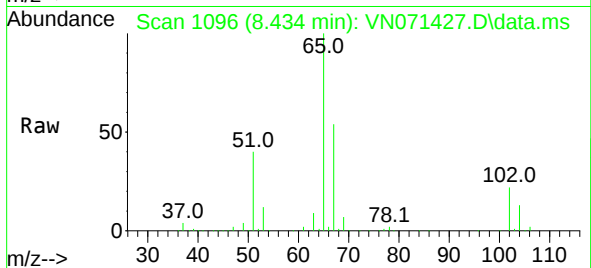
WC1-220316

Tgt Ion: 65 Resp: 514510

Ion Ratio Lower Upper

65 100

67 51.8 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: VN071427.D

Acq: 21 Mar 2022 18:53

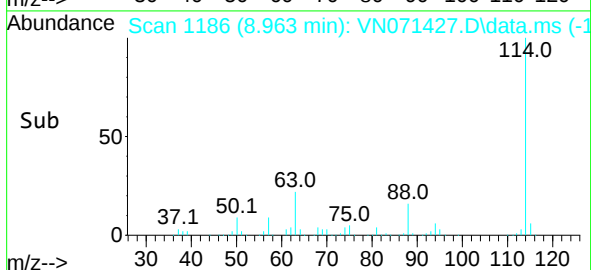
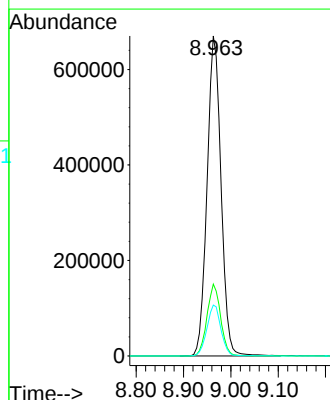
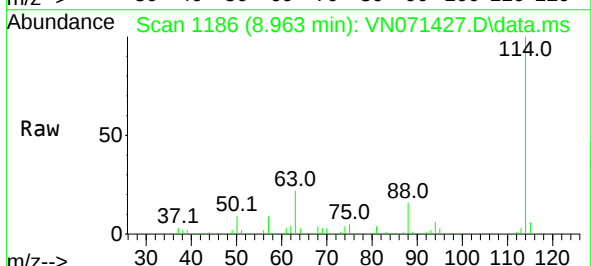
Tgt Ion: 114 Resp: 1369596

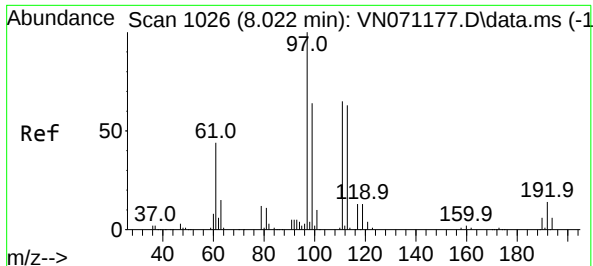
Ion Ratio Lower Upper

114 100

63 22.5 0.0 37.8

88 15.9 0.0 27.4





#35

Dibromofluoromethane

Concen: 44.993 ug/l

RT: 8.016 min Scan# 1035

Delta R.T. -0.006 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

WC1-220316

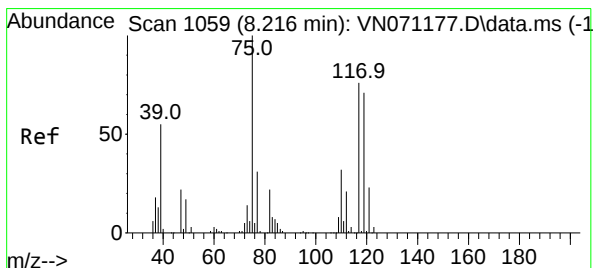
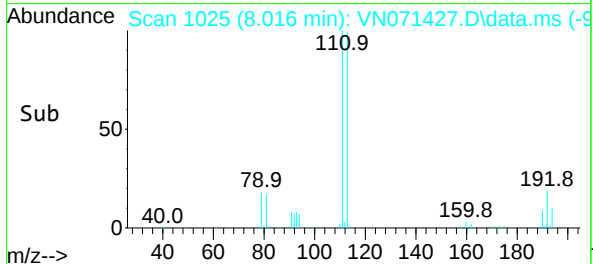
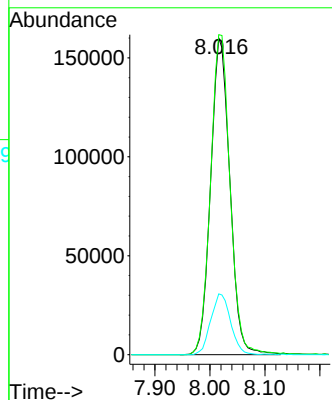
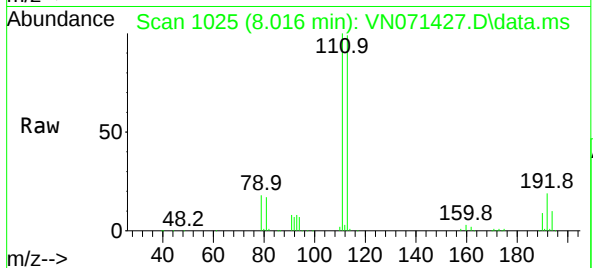
Tgt Ion:113 Resp: 388857

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.2

192 19.8 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.601 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

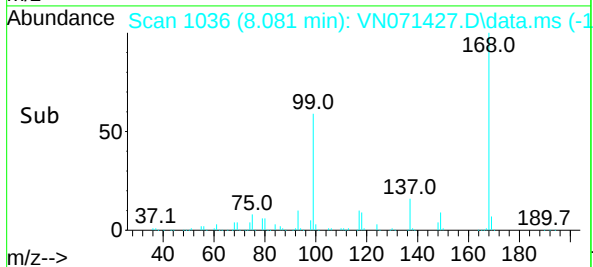
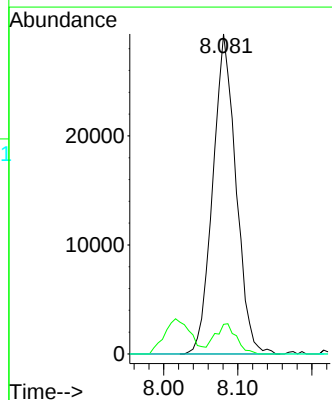
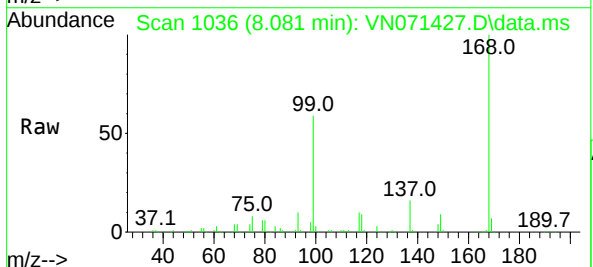
Tgt Ion: 75 Resp: 63718

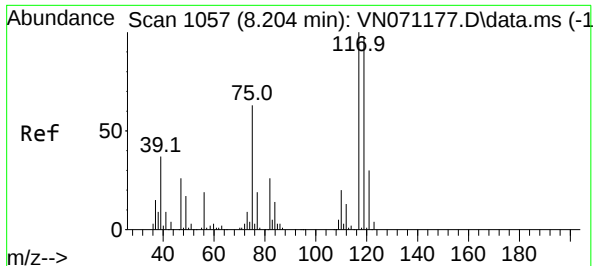
Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.2#

77 0.0 24.4 36.6#

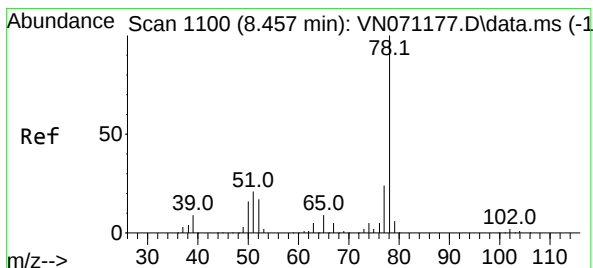
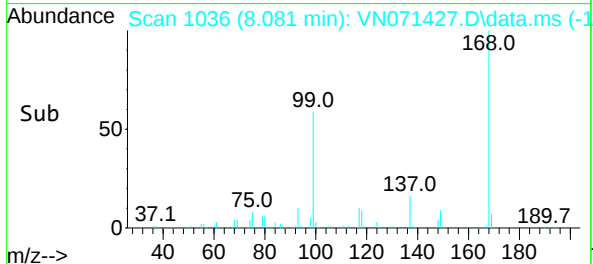
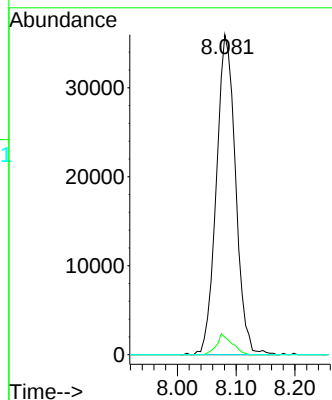
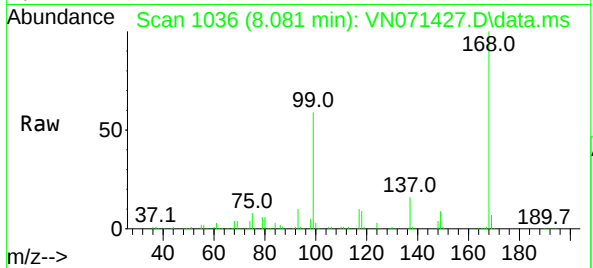




#38
Carbon Tetrachloride
Concen: 6.095 ug/l
RT: 8.081 min Scan# 1099
Delta R.T. -0.123 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

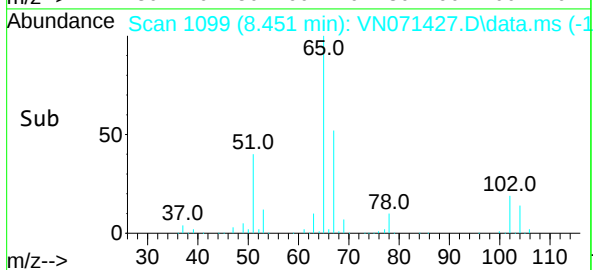
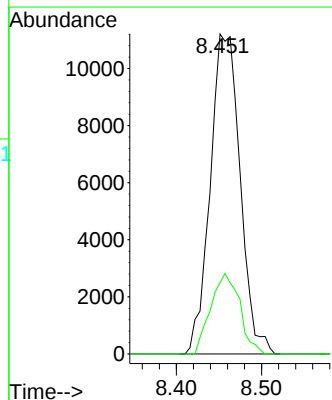
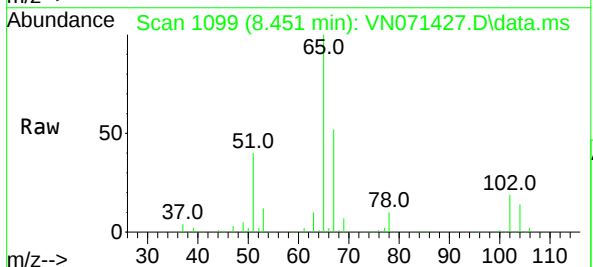
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

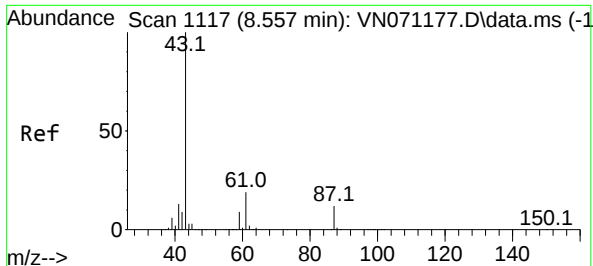
Tgt Ion:117 Resp: 81630
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.656 ug/l
RT: 8.451 min Scan# 1099
Delta R.T. -0.006 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 78 Resp: 27360
Ion Ratio Lower Upper
78 100
77 22.3 18.6 27.8





#43

Isopropyl Acetate

Concen: 3.191 ug/l

RT: 8.557 min Scan# 1117

Delta R.T. 0.000 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

WC1-220316

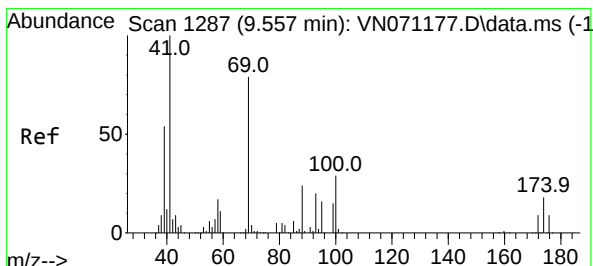
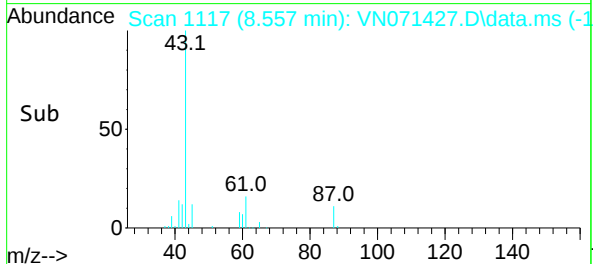
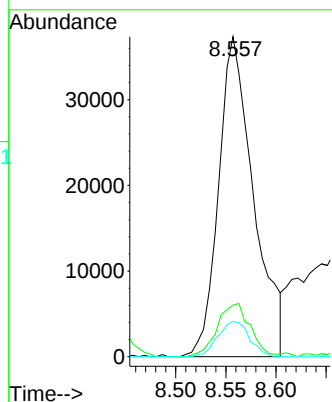
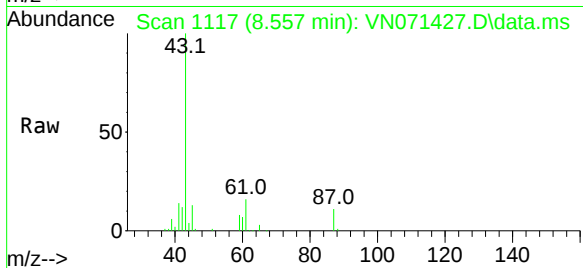
Tgt Ion: 43 Resp: 90928

Ion Ratio Lower Upper

43 100

61 15.5 20.4 30.6#

87 9.9 11.2 16.8#



#48

Methyl methacrylate

Concen: 1.529 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.018 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

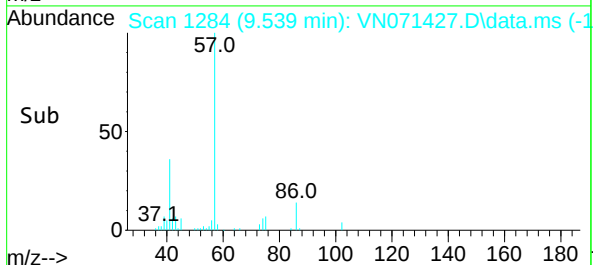
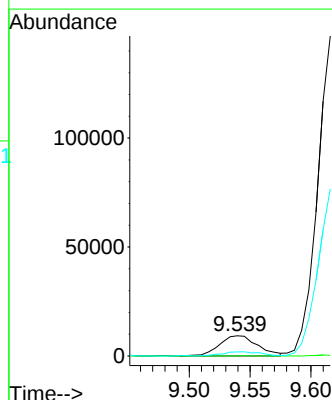
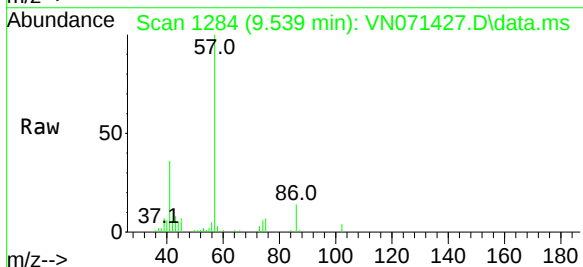
Tgt Ion: 41 Resp: 20191

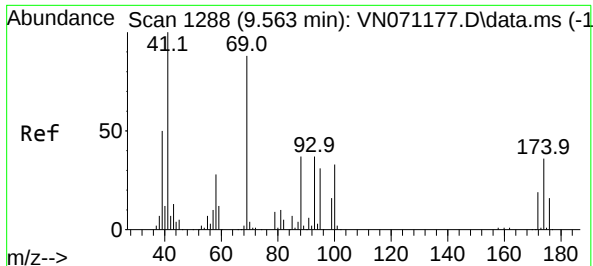
Ion Ratio Lower Upper

41 100

69 0.3 72.4 108.6#

39 0.0 58.4 87.6#





#49

1,4-Dioxane

Concen: 0.945 ug/l

RT: 9.557 min Scan# 1287

Delta R.T. -0.006 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

WC1-220316

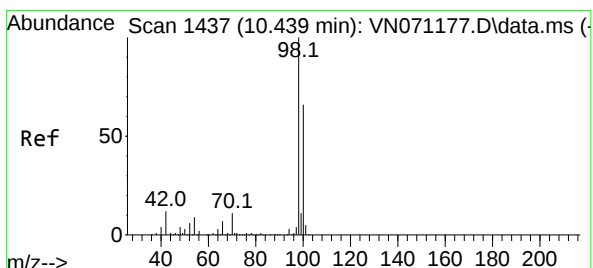
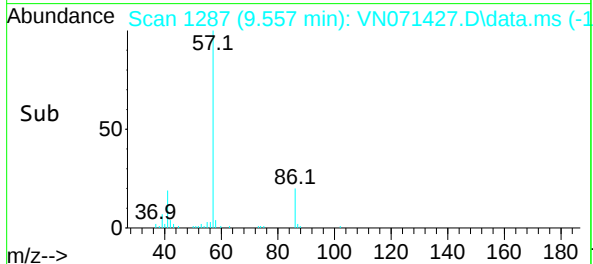
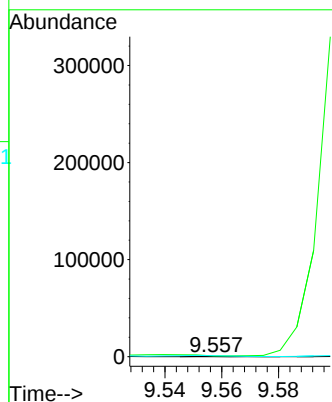
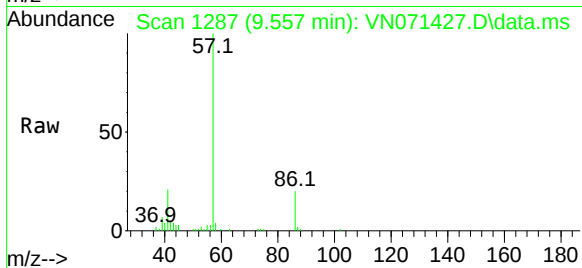
Tgt Ion: 88 Resp: 217

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 1287.1 50.6 75.8#



#50

Toluene-d8

Concen: 48.783 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071427.D

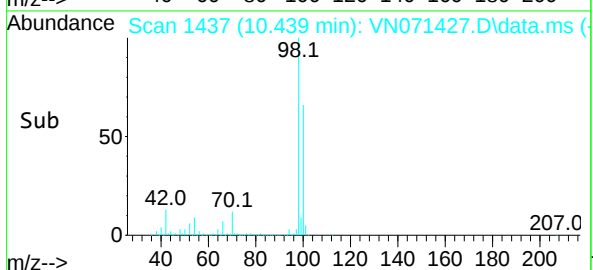
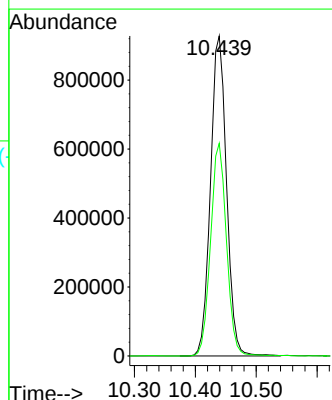
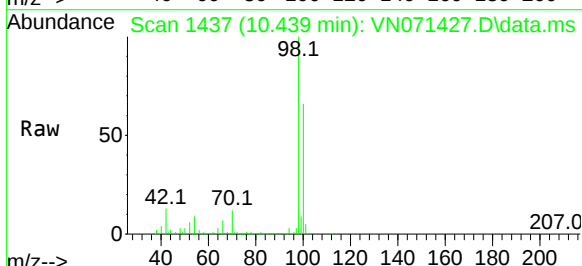
Acq: 21 Mar 2022 18:53

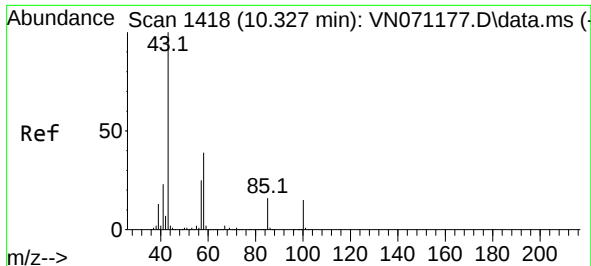
Tgt Ion: 98 Resp: 1697553

Ion Ratio Lower Upper

98 100

100 65.9 50.4 75.6

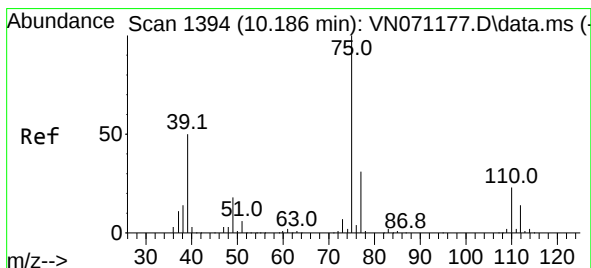
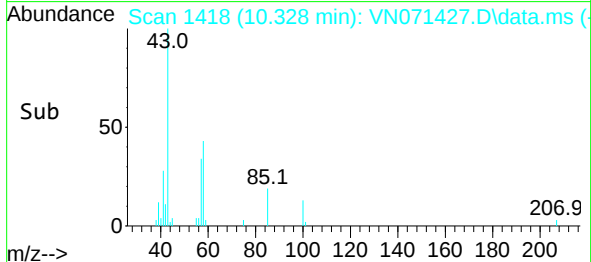
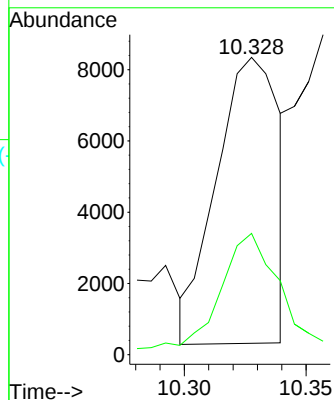
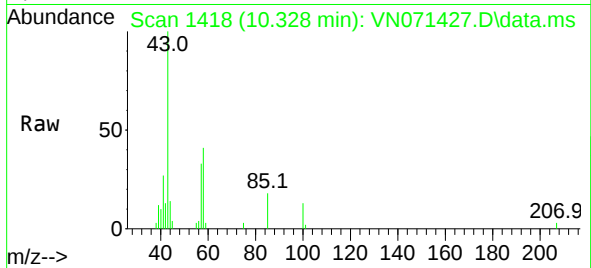




#51
4-Methyl-2-Pentanone
Concen: 0.810 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

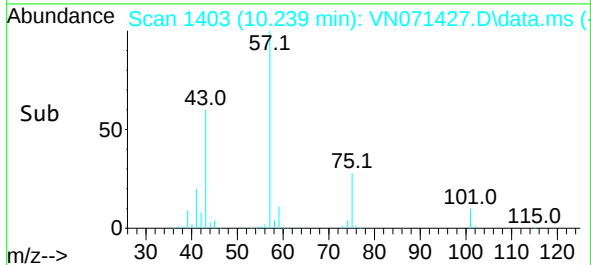
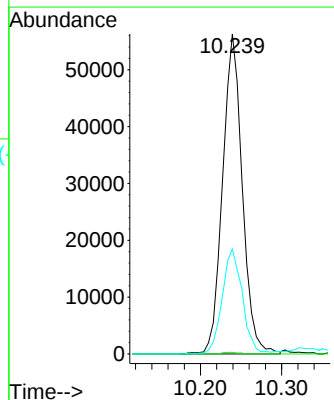
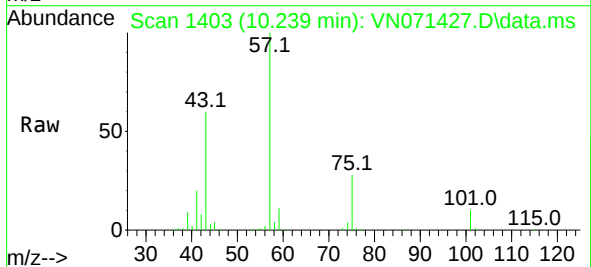
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

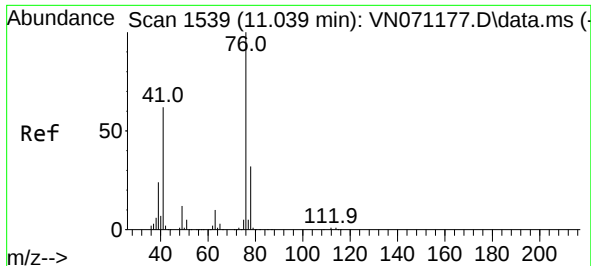
Tgt Ion: 43 Resp: 14318
Ion Ratio Lower Upper
43 100
58 42.7 30.4 45.6



#54
cis-1,3-Dichloropropene
Concen: 5.659 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 75 Resp: 94953
Ion Ratio Lower Upper
75 100
77 0.5 26.4 39.6#
39 32.9 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 1.865 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071427.D

Acq: 21 Mar 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

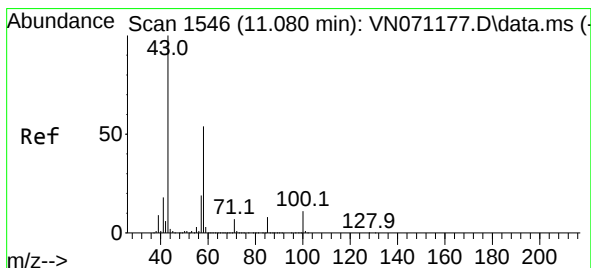
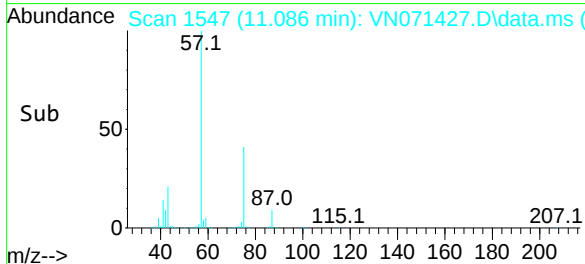
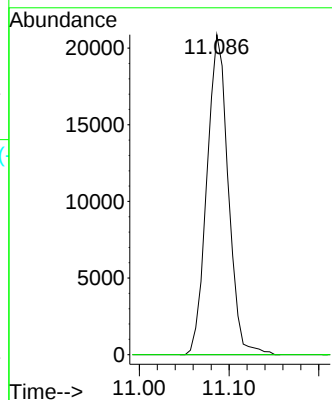
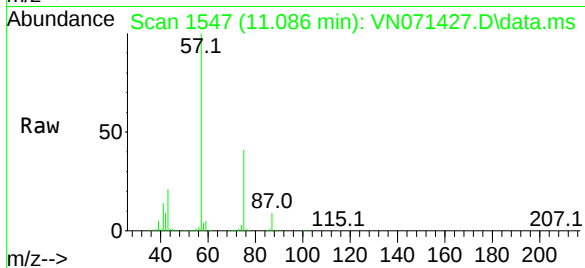
WC1-220316

Tgt Ion: 76 Resp: 34463

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 45.764 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071427.D

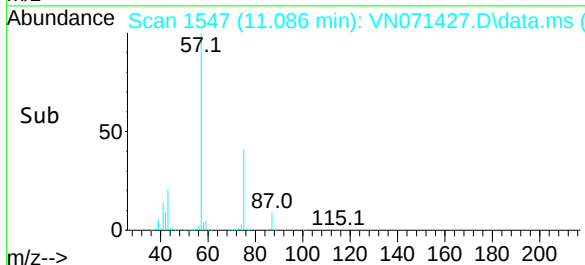
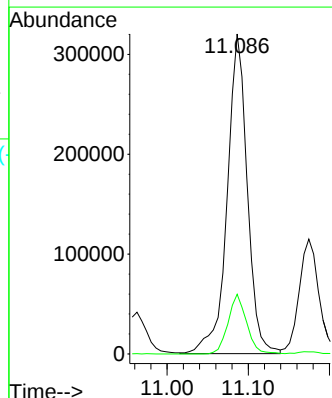
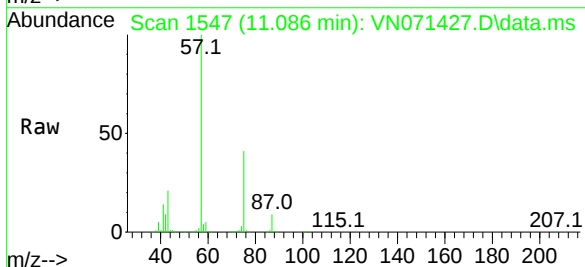
Acq: 21 Mar 2022 18:53

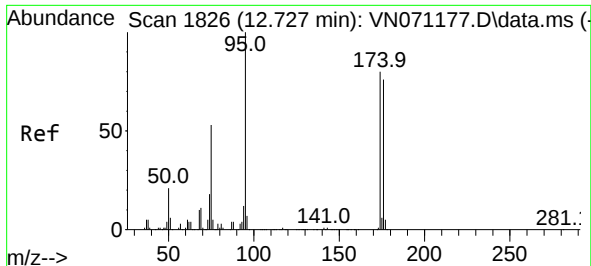
Tgt Ion: 43 Resp: 552266

Ion Ratio Lower Upper

43 100

58 17.2 26.9 80.7#

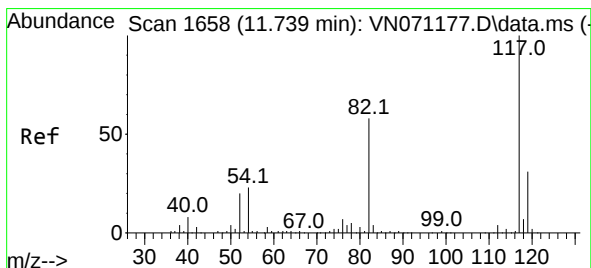
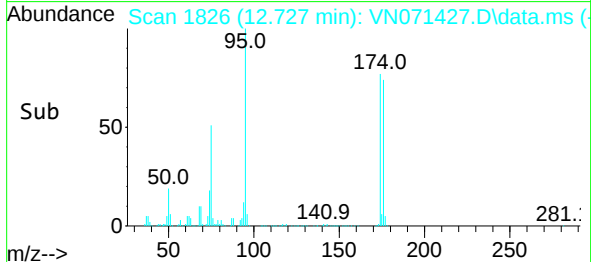
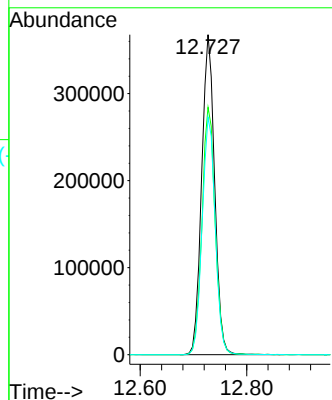
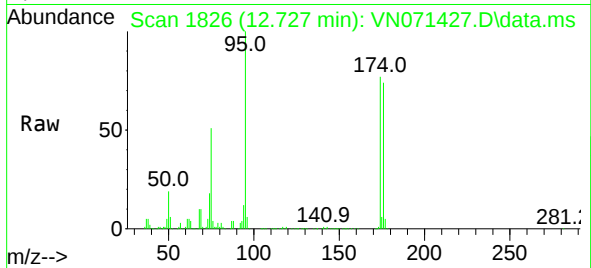




#62
4-Bromofluorobenzene
Concen: 52.600 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

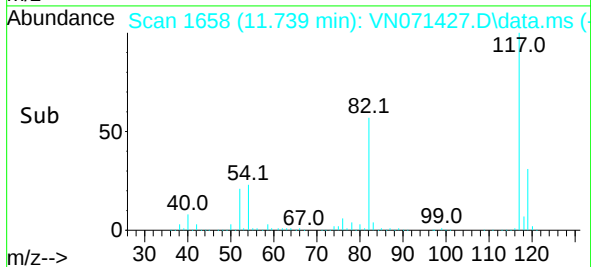
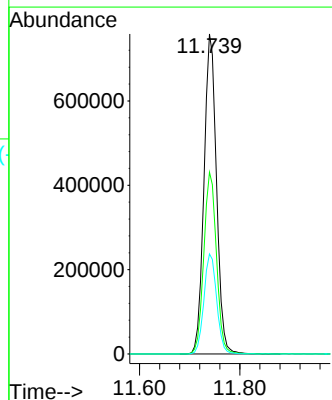
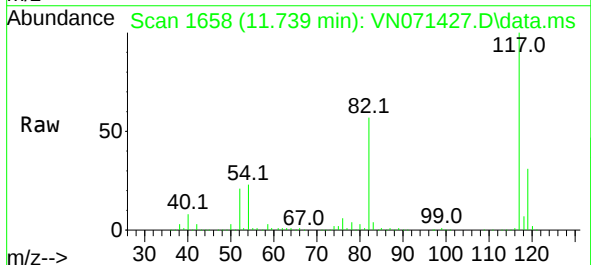
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

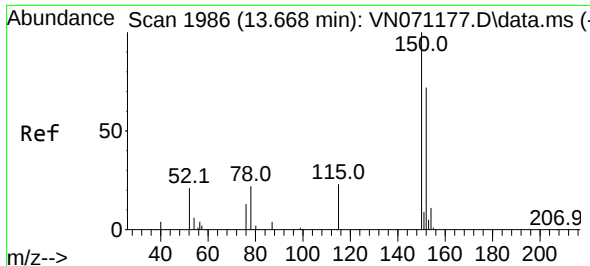
Tgt Ion: 95 Resp: 619809
Ion Ratio Lower Upper
95 100
174 78.2 0.0 187.2
176 74.8 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 117 Resp: 1313356
Ion Ratio Lower Upper
117 100
82 56.8 42.4 63.6
119 31.3 25.4 38.2

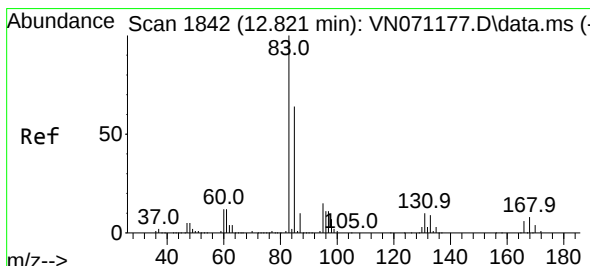
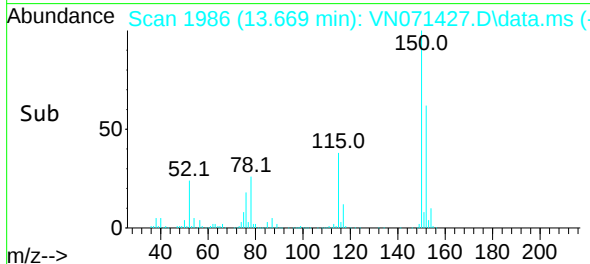
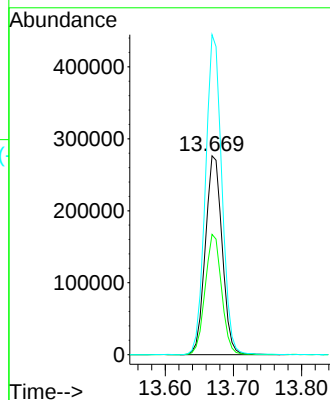
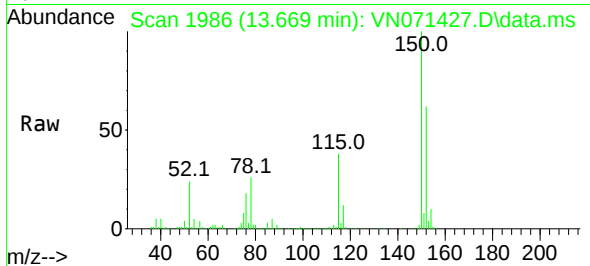




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.669 min Scan# 1986
 Delta R.T. 0.001 min
 Lab File: VN071427.D
 Acq: 21 Mar 2022 18:53

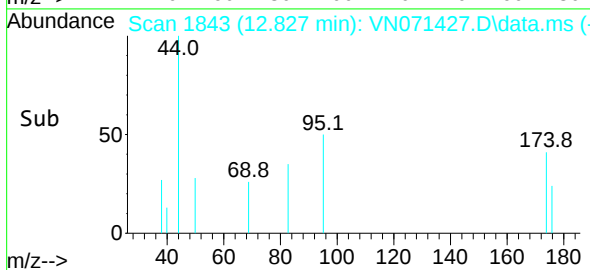
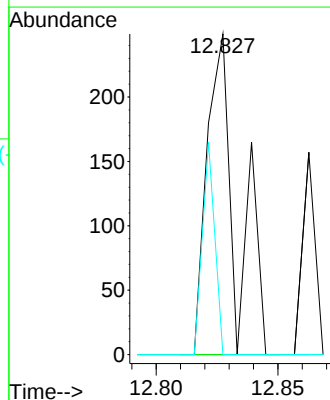
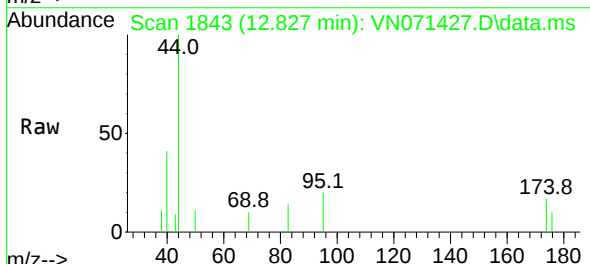
Instrument :
 MSVOA_N
 ClientSampleId :
 WC1-220316

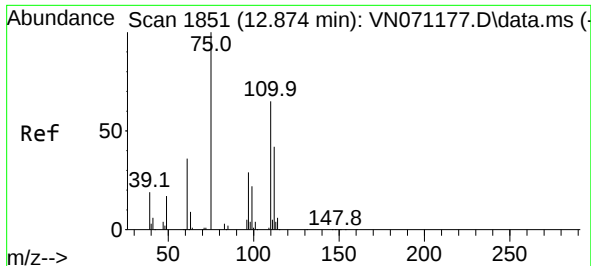
Tgt Ion:152 Resp: 474042
 Ion Ratio Lower Upper
 152 100
 115 59.3 27.5 82.5
 150 157.1 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.827 min Scan# 1843
 Delta R.T. 0.006 min
 Lab File: VN071427.D
 Acq: 21 Mar 2022 18:53

Tgt Ion: 83 Resp: 210
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.5 16.5#
 85 27.6 32.4 97.2#

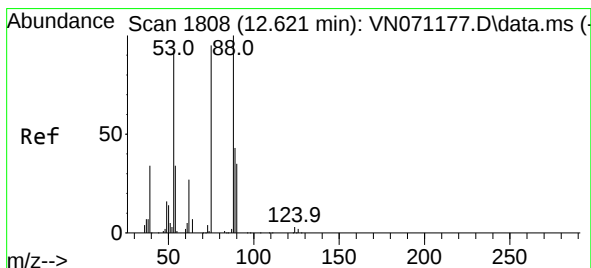
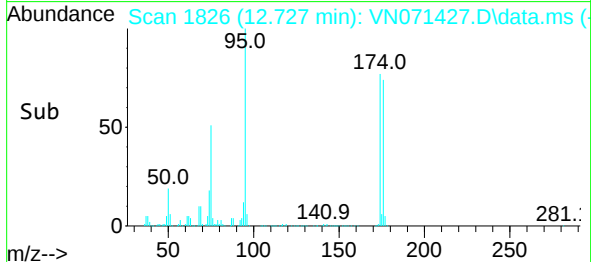
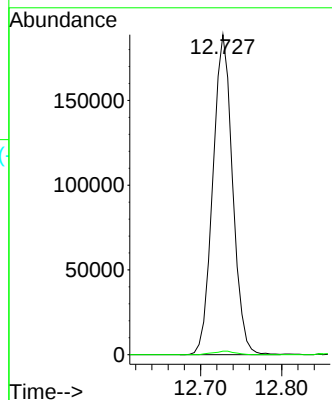
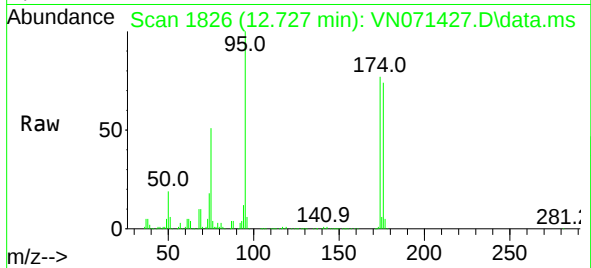




#76
1,2,3-Trichloropropane
Concen: 26.421 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

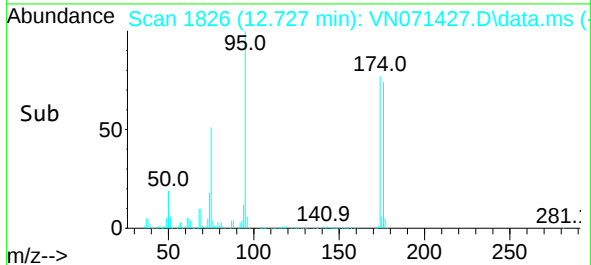
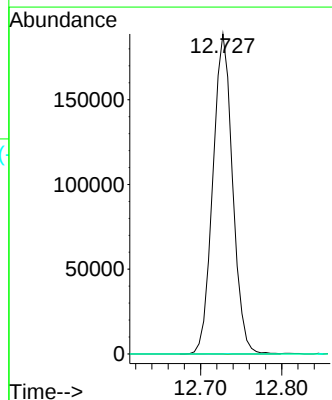
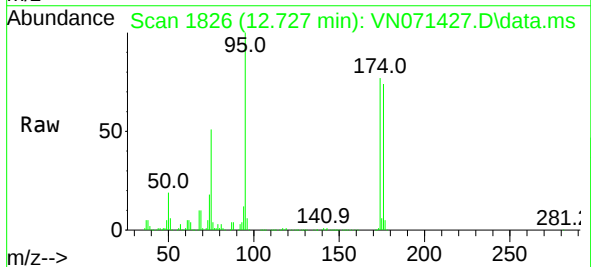
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

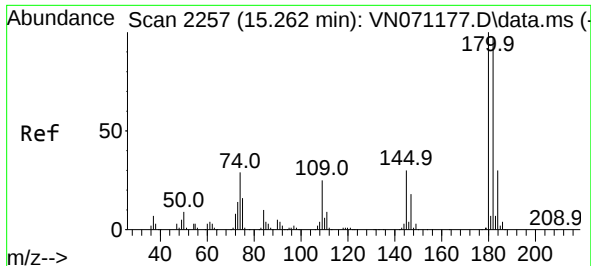
Tgt Ion: 75 Resp: 318852
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.710 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion: 75 Resp: 318852
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

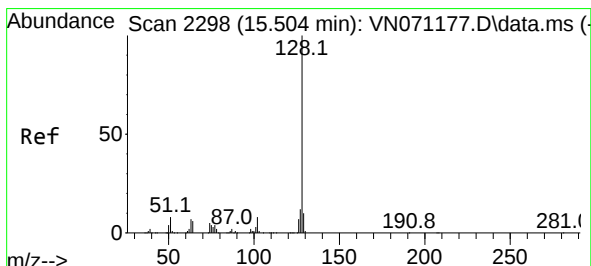
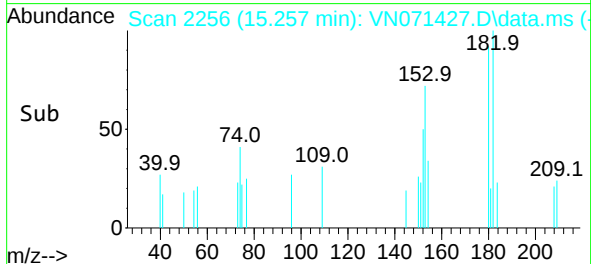
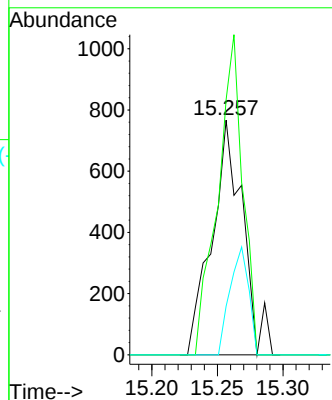
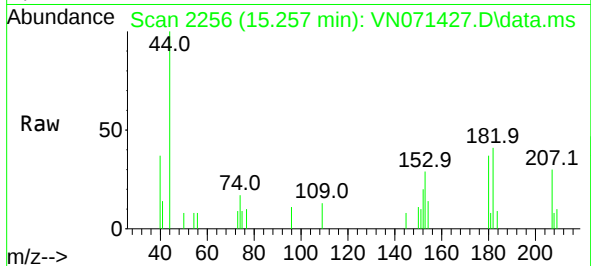




#93
1,2,4-Trichlorobenzene
Concen: 3.141 ug/l
RT: 15.257 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

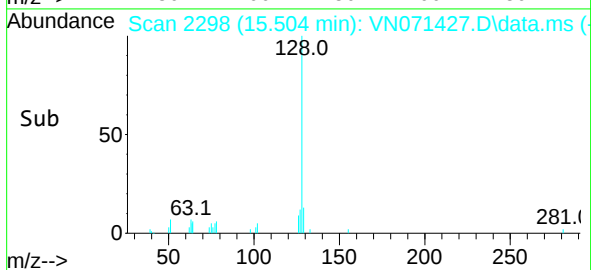
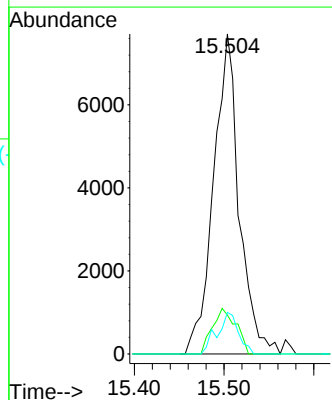
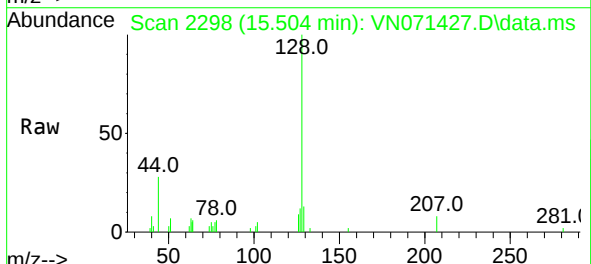
Instrument :
MSVOA_N
ClientSampleId :
WC1-220316

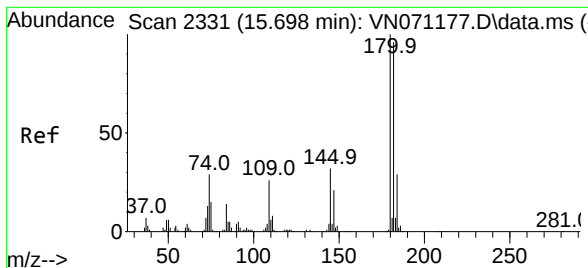
Tgt Ion:180 Resp: 1256
Ion Ratio Lower Upper
180 100
182 110.0 48.3 144.9
145 27.8 14.5 43.5



#95
Naphthalene
Concen: 5.698 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071427.D
Acq: 21 Mar 2022 18:53

Tgt Ion:128 Resp: 15255
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.8 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.932 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN071427.D
 Acq: 21 Mar 2022 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 WC1-220316

Tgt Ion:180 Resp: 1577
 Ion Ratio Lower Upper
 180 100
 182 113.8 47.4 142.2
 145 34.1 15.0 45.1

