

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032122\
 Data File : VN071449.D
 Acq On : 22 Mar 2022 04:32
 Operator : JC\MD
 Sample : N2017-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-3

Quant Time: Mar 22 06:32:27 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)

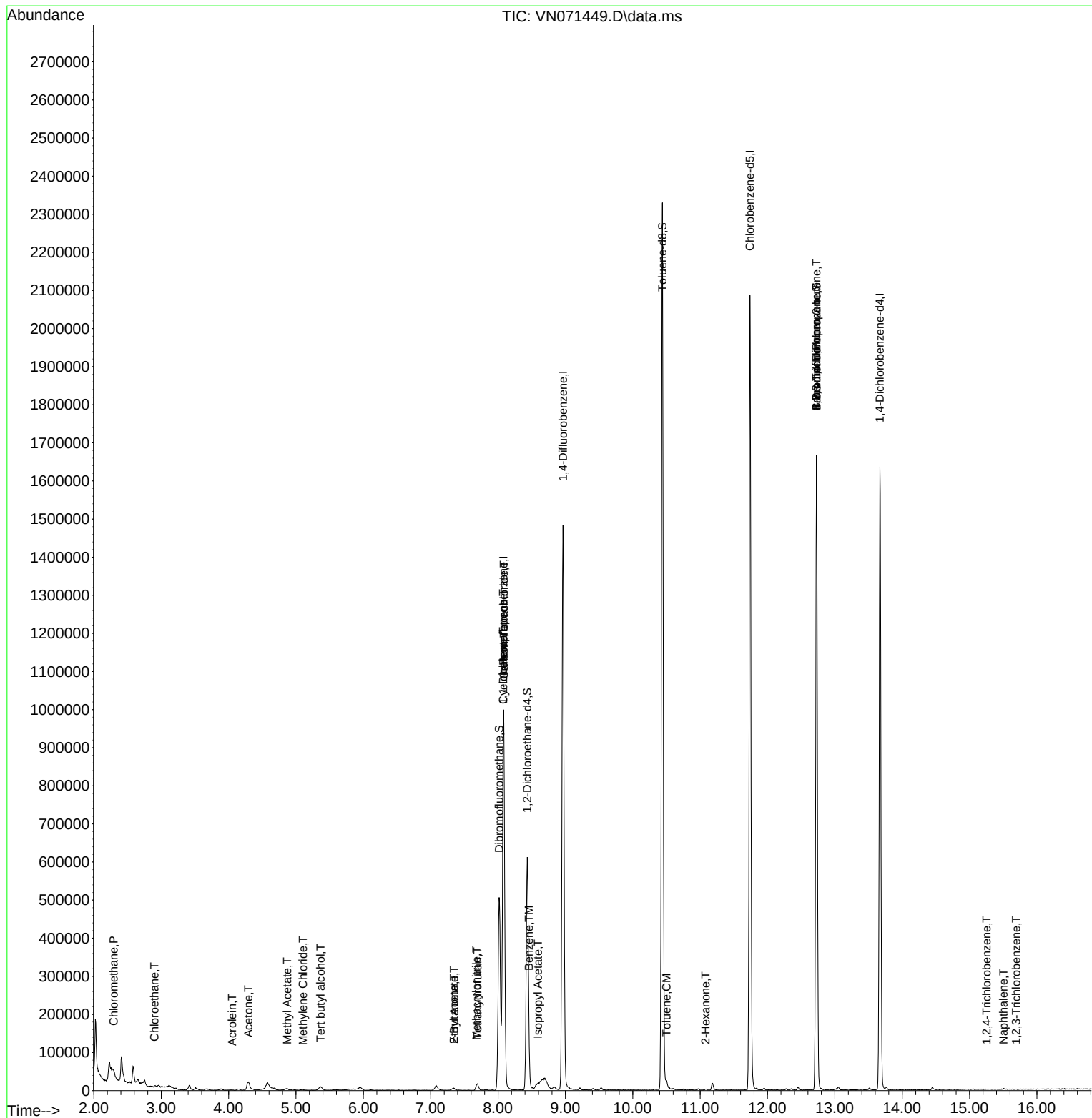
Internal Standards						
1) Pentafluorobenzene	8.081	168	759769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1286092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1199996	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	441209	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	498955	47.917	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.840%		
35) Dibromofluoromethane	8.016	113	373308	45.998	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.000%		
50) Toluene-d8	10.439	98	1566034	47.926	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	95.860%		
62) 4-Bromofluorobenzene	12.727	95	577425	52.185	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	104.360%		
Target Compounds					Qvalue	
3) Chloromethane	2.293	50	4972	0.410	ug/l #	71
5) Bromomethane	2.852	94	1062	Below Cal	#	62
6) Chloroethane	2.899	64	1717	0.278	ug/l #	44
11) Tert butyl alcohol	5.363	59	17074	8.347	ug/l	95
13) Acrolein	4.051	56	475	0.219	ug/l #	82
16) Acetone	4.293	43	40229	7.940	ug/l	100
18) Methyl Acetate	4.869	43	11304	1.293	ug/l #	76
20) Methylene Chloride	5.104	84	1341	0.526	ug/l #	66
25) 2-Butanone	7.345	43	10806	1.324	ug/l #	88
29) Tetrahydrofuran	7.692	42	15361	2.717	ug/l #	85
31) Cyclohexane	8.075	56	16566	0.996	ug/l #	1
36) 1,1-Dichloropropene	8.075	75	59507	4.576	ug/l #	48
37) Ethyl Acetate	7.345	43	10806	0.604	ug/l #	70
38) Carbon Tetrachloride	8.087	117	74820	5.949	ug/l #	17
40) Benzene	8.457	78	15527	0.396	ug/l	99
41) Methacrylonitrile	7.681	41	8387	0.958	ug/l #	40
43) Isopropyl Acetate	8.592	43	15862	0.593	ug/l #	55
52) Toluene	10.498	92	5308	0.220	ug/l	95
59) 2-Hexanone	11.080	43	2792	0.246	ug/l	65
71) Bromoform	12.727	173	3734	0.520	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.733	83	335	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	301119	26.853	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	301119	73.776	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.251	180	61	2.997	ug/l #	12
95) Naphthalene	15.504	128	1929	5.153	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.692	180	54	2.739	ug/l #	80

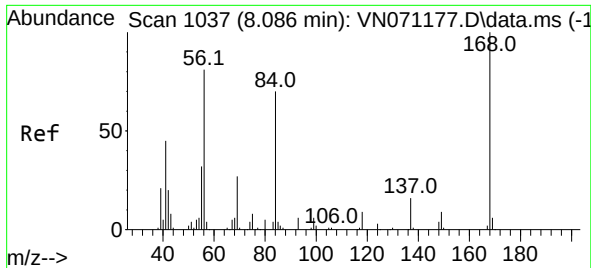
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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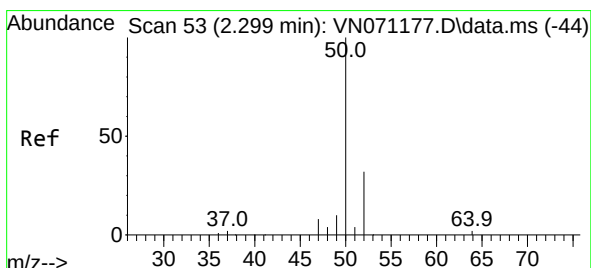
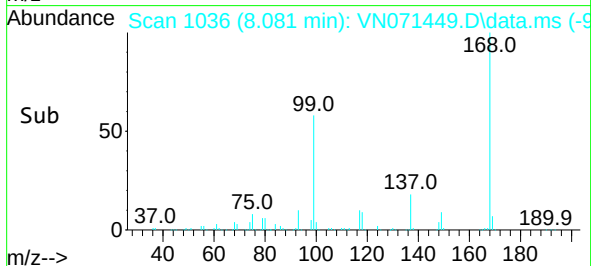
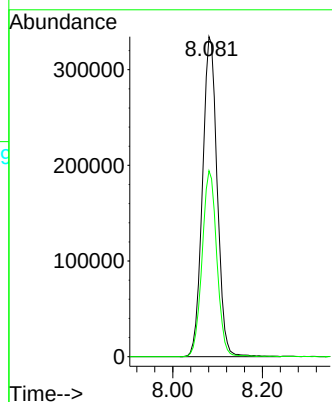
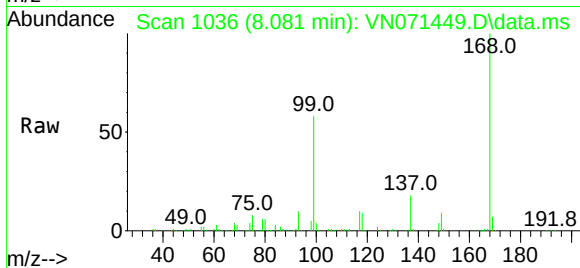




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.005 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

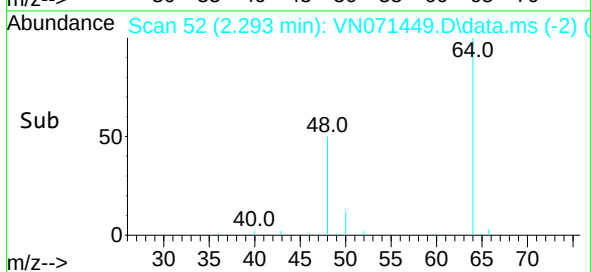
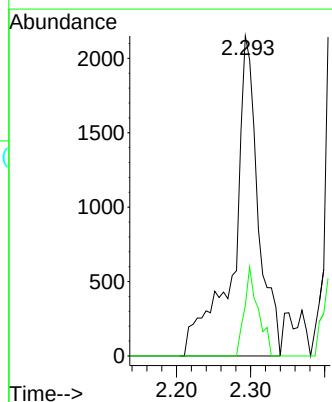
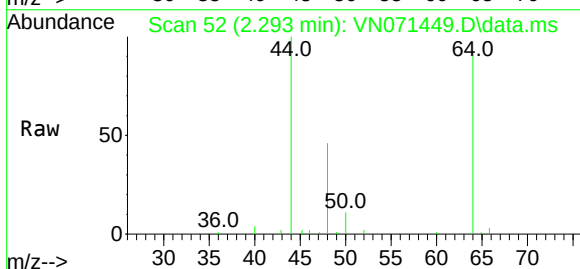
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

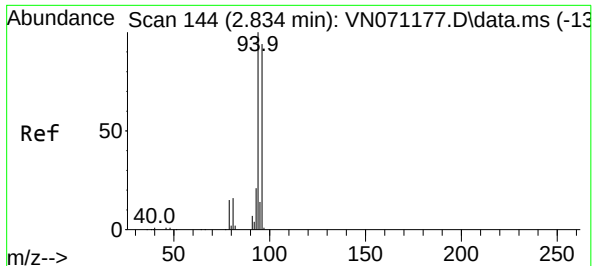
Tgt Ion:168 Resp: 759769
Ion Ratio Lower Upper
168 100
99 58.1 41.3 61.9



#3
Chloromethane
Concen: 0.410 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 50 Resp: 4972
Ion Ratio Lower Upper
50 100
52 15.8 25.4 38.0#

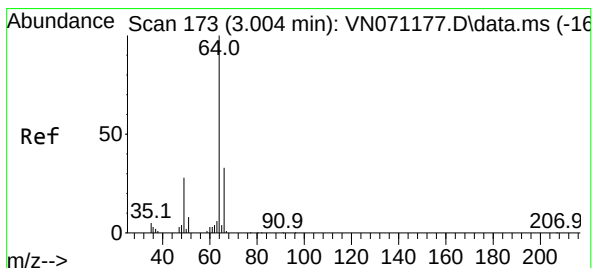
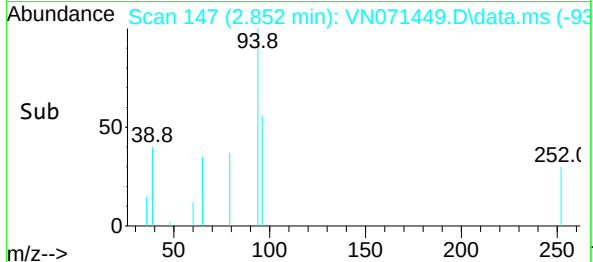
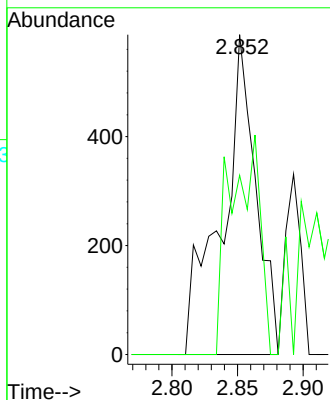
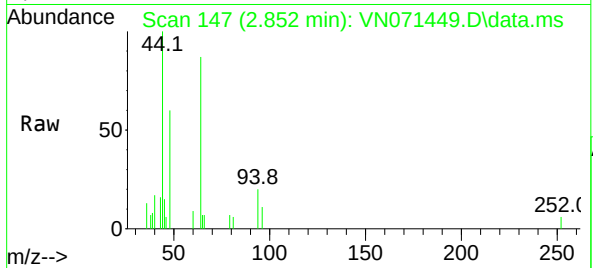




#5
Bromomethane
Concen: Below Cal
RT: 2.852 min Scan# 14
Delta R.T. 0.018 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

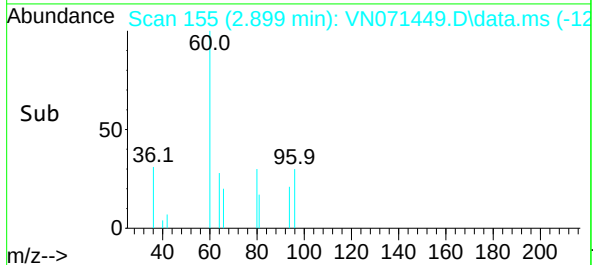
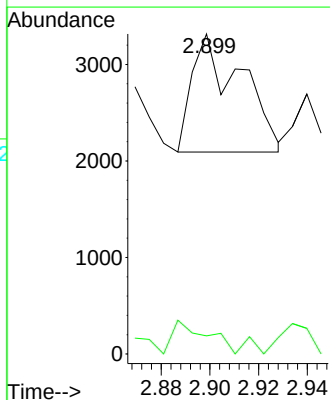
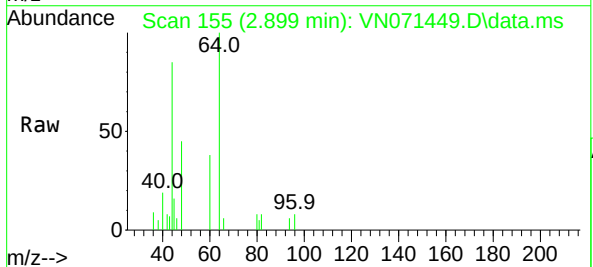
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

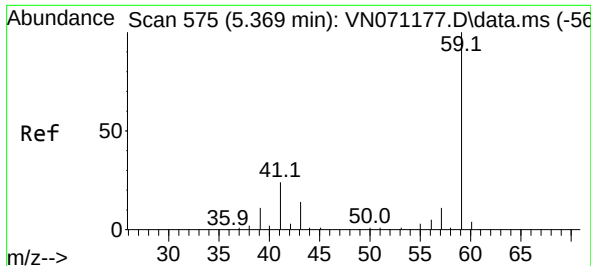
Tgt Ion: 94 Resp: 1062
Ion Ratio Lower Upper
94 100
96 56.0 73.8 110.8#



#6
Chloroethane
Concen: 0.278 ug/l
RT: 2.899 min Scan# 155
Delta R.T. -0.105 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 64 Resp: 1717
Ion Ratio Lower Upper
64 100
66 1.6 26.3 39.5#





#11

Tert butyl alcohol

Concen: 8.347 ug/l

RT: 5.363 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

Instrument :

MSVOA_N

ClientSampleId :

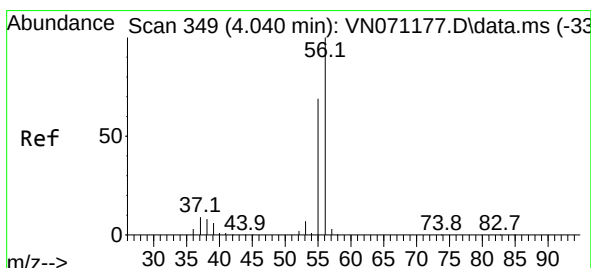
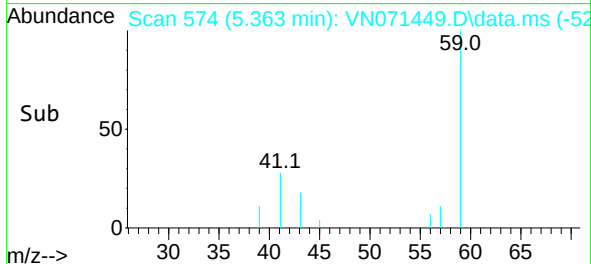
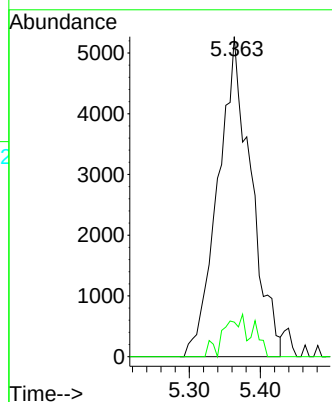
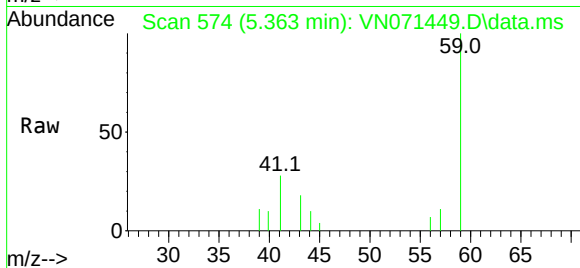
TWP-3

Tgt Ion: 59 Resp: 17074

Ion Ratio Lower Upper

59 100

57 8.9 8.7 13.1



#13

Acrolein

Concen: 0.219 ug/l

RT: 4.051 min Scan# 351

Delta R.T. 0.012 min

Lab File: VN071449.D

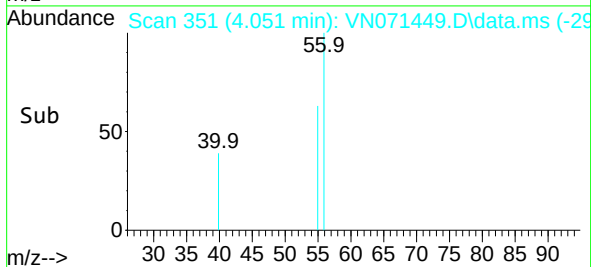
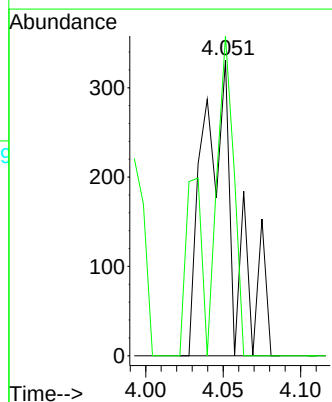
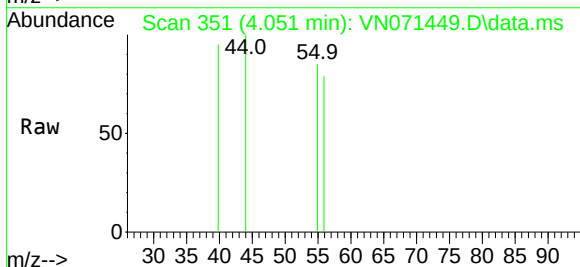
Acq: 22 Mar 2022 04:32

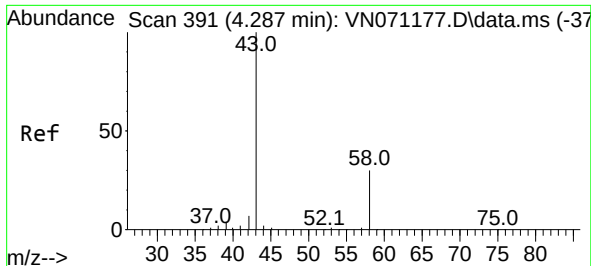
Tgt Ion: 56 Resp: 475

Ion Ratio Lower Upper

56 100

55 55.8 56.6 85.0#

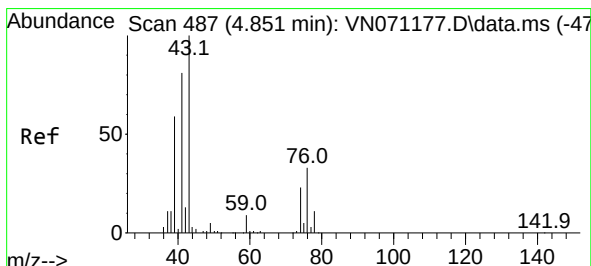
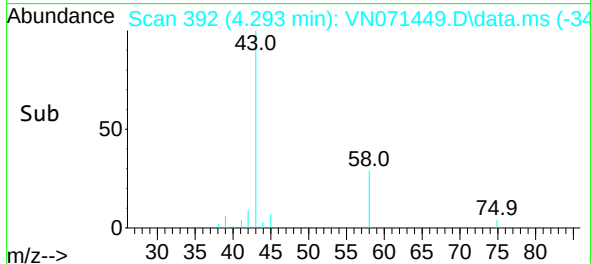
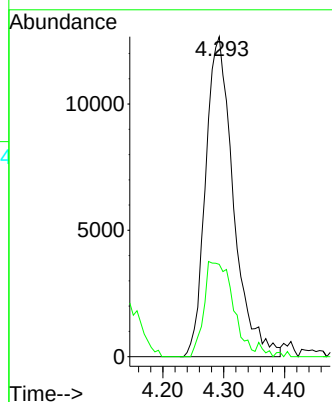
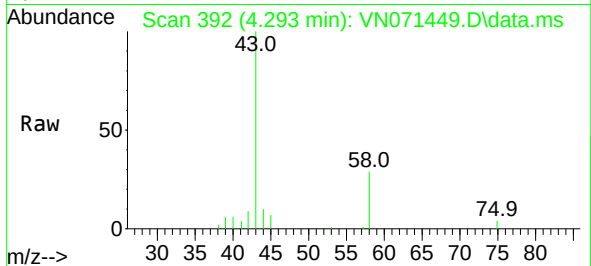




#16
Acetone
Concen: 7.940 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

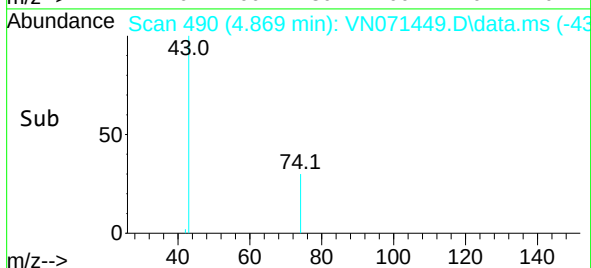
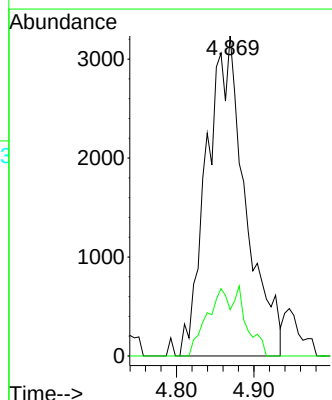
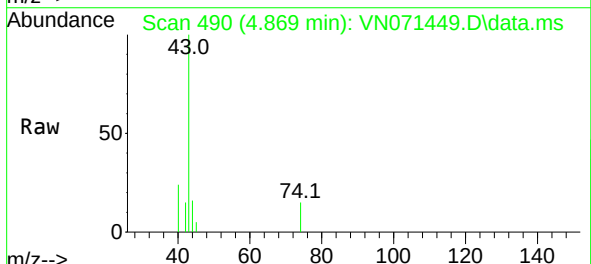
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

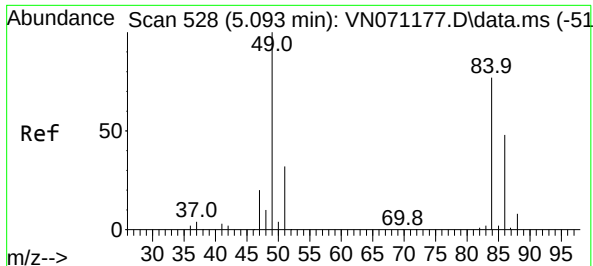
Tgt Ion: 43 Resp: 40229
Ion Ratio Lower Upper
43 100
58 28.8 23.1 34.7



#18
Methyl Acetate
Concen: 1.293 ug/l
RT: 4.869 min Scan# 490
Delta R.T. 0.018 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

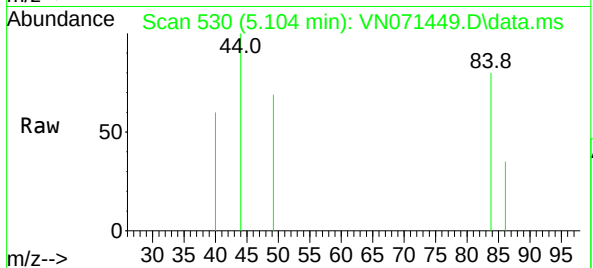
Tgt Ion: 43 Resp: 11304
Ion Ratio Lower Upper
43 100
74 12.2 19.4 29.2#





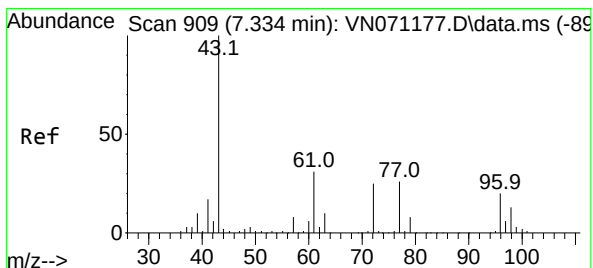
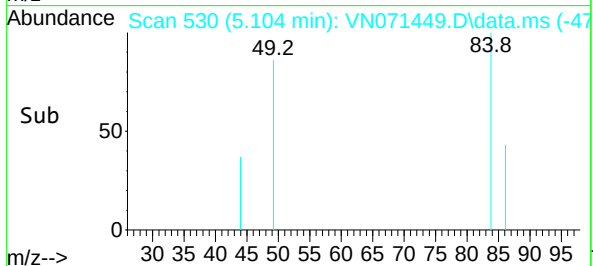
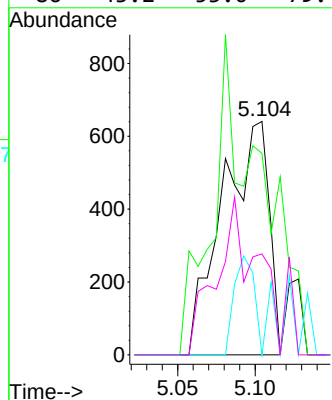
#20
Methylene Chloride
Concen: 0.526 ug/l
RT: 5.104 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Instrument :
MSVOA_N
ClientSampleId :
TWP-3



Tgt Ion: 84 Resp: 1341

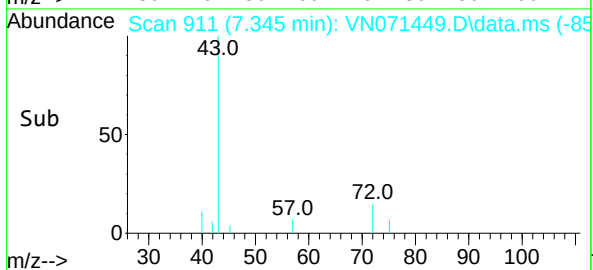
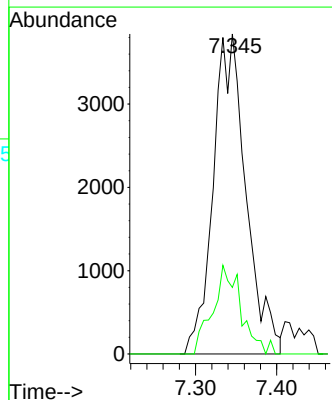
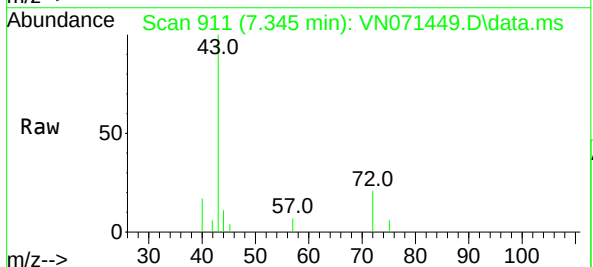
Ion	Ratio	Lower	Upper
84	100		
49	86.3	93.5	140.3#
51	0.0	29.4	44.2#
86	43.2	53.0	79.4#

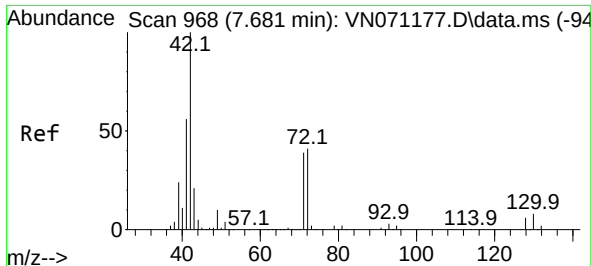


#25
2-Butanone
Concen: 1.324 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.012 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 43 Resp: 10806

Ion	Ratio	Lower	Upper
43	100		
72	20.8	21.7	32.5#





#29

Tetrahydrofuran

Concen: 2.717 ug/l

RT: 7.692 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

Instrument :

MSVOA_N

ClientSampleId :

TWP-3

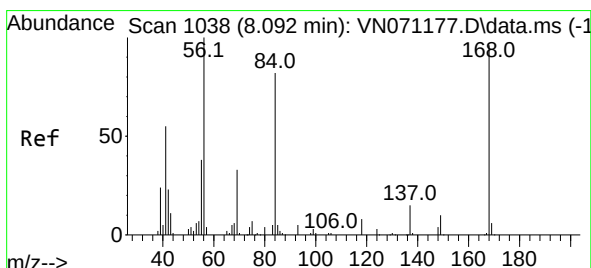
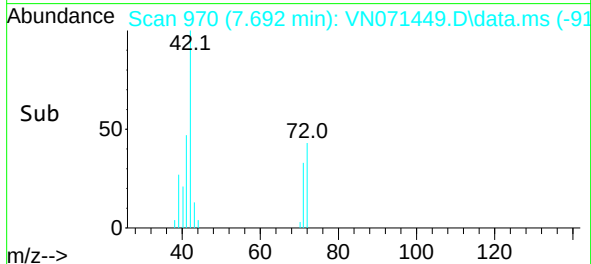
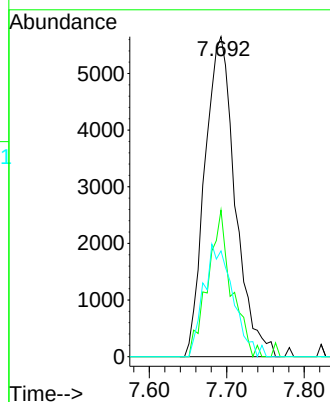
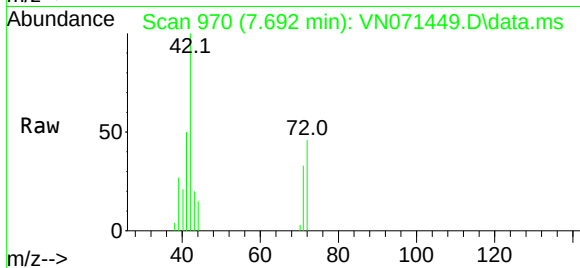
Tgt Ion: 42 Resp: 15361

Ion Ratio Lower Upper

42 100

72 35.9 36.3 54.5#

71 33.8 34.7 52.1#



#31

Cyclohexane

Concen: 0.996 ug/l

RT: 8.075 min Scan# 1035

Delta R.T. -0.018 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

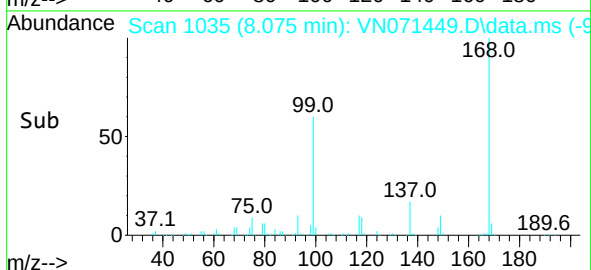
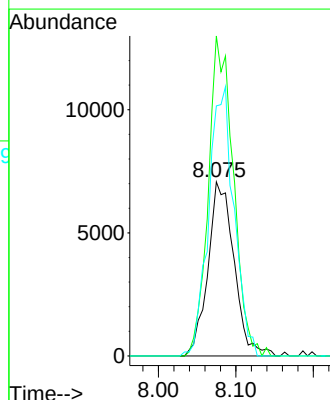
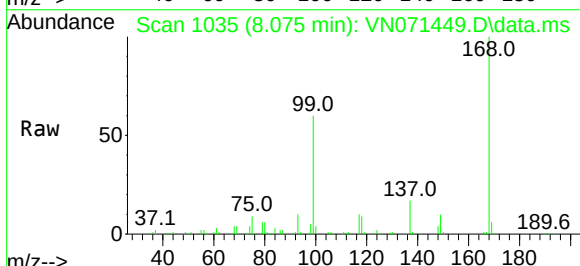
Tgt Ion: 56 Resp: 16566

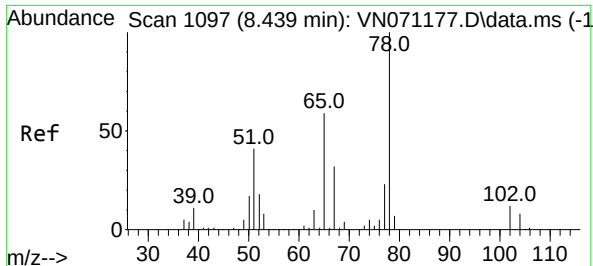
Ion Ratio Lower Upper

56 100

69 183.7 27.1 40.7#

84 143.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 47.917 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

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MSVOA_N

ClientSampleId :

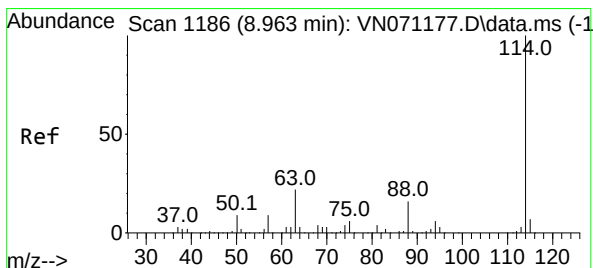
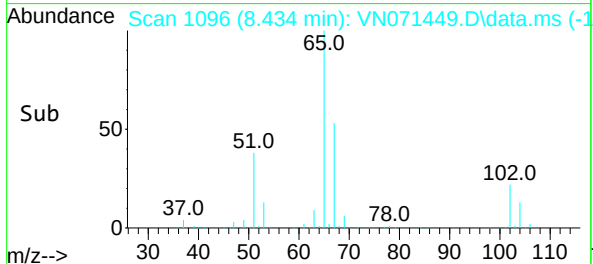
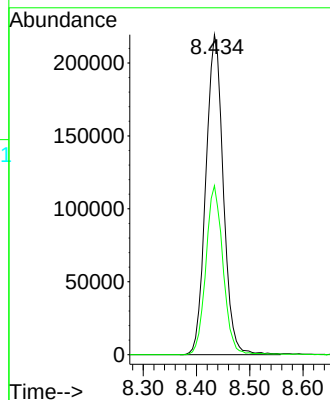
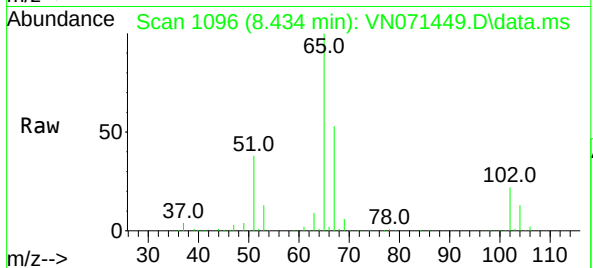
TWP-3

Tgt Ion: 65 Resp: 498955

Ion Ratio Lower Upper

65 100

67 52.0 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: VN071449.D

Acq: 22 Mar 2022 04:32

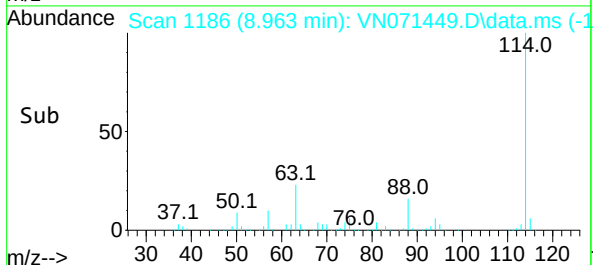
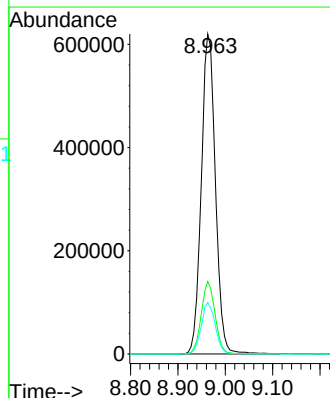
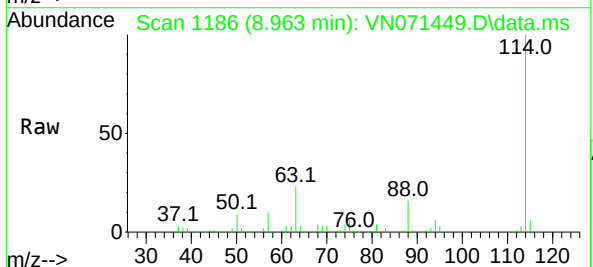
Tgt Ion: 114 Resp: 1286092

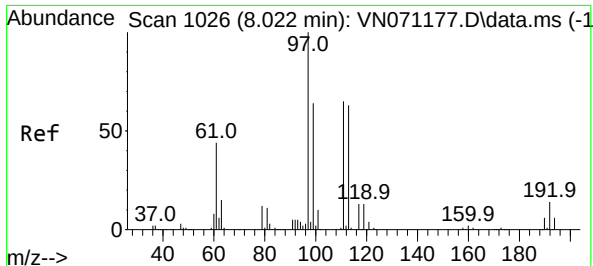
Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.8

88 16.1 0.0 27.4





#35

Dibromofluoromethane

Concen: 45.998 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

Instrument :

MSVOA_N

ClientSampleId :

TWP-3

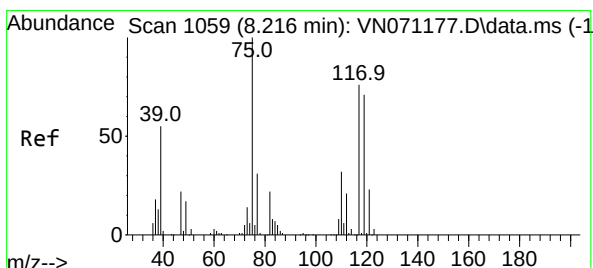
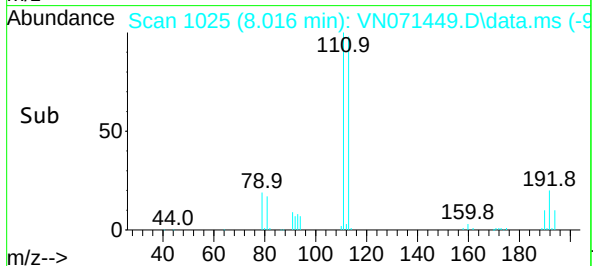
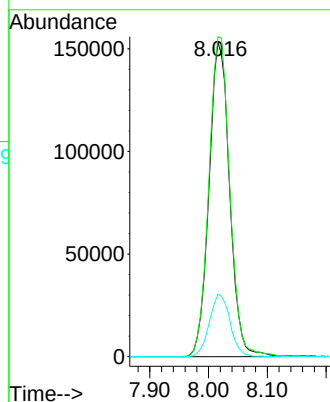
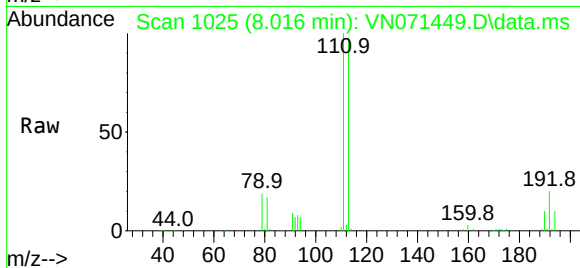
Tgt Ion:113 Resp: 373308

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.2

192 20.0 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.576 ug/l

RT: 8.075 min Scan# 1035

Delta R.T. -0.141 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

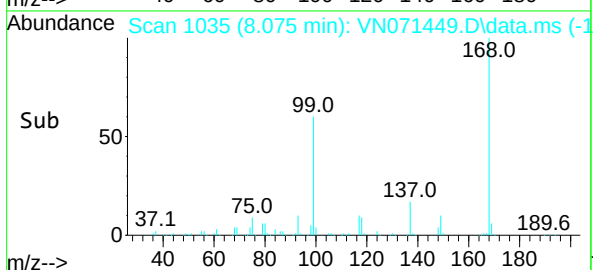
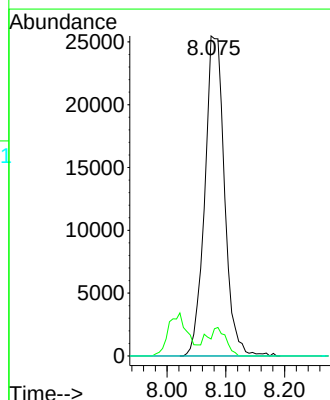
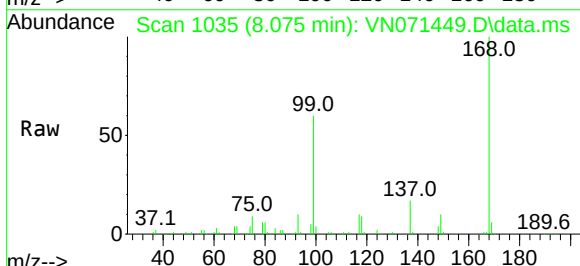
Tgt Ion: 75 Resp: 59507

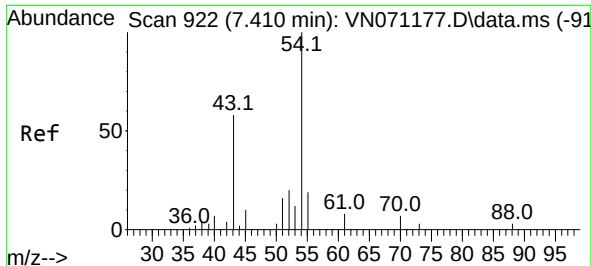
Ion Ratio Lower Upper

75 100

110 8.4 18.4 55.2#

77 0.0 24.4 36.6#

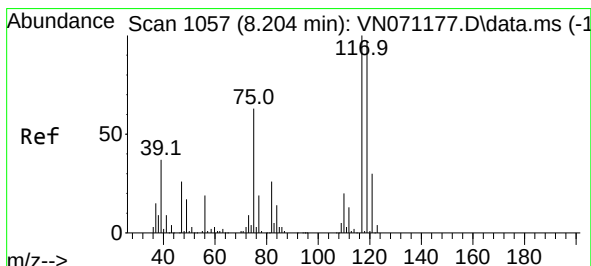
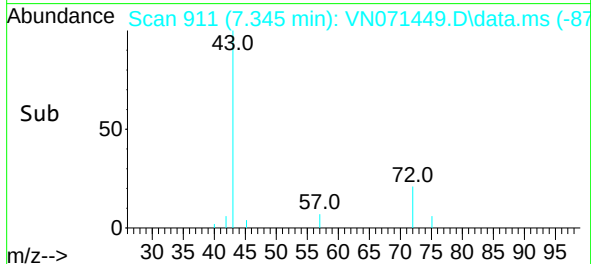
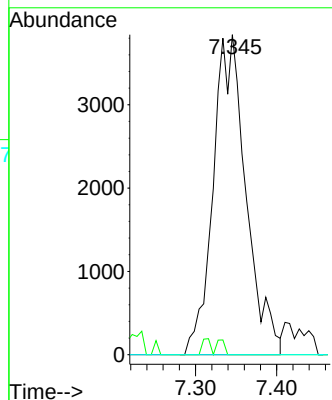
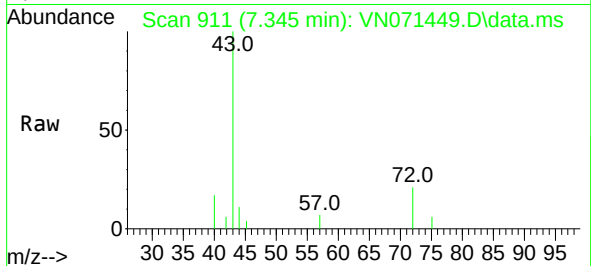




#37
Ethyl Acetate
Concen: 0.604 ug/l
RT: 7.345 min Scan# 91
Delta R.T. -0.065 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

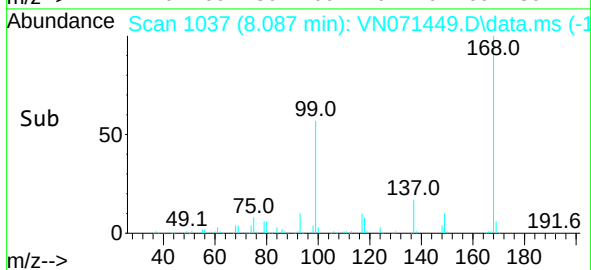
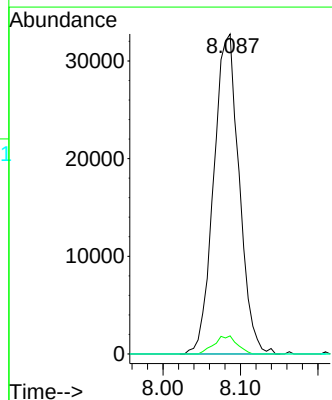
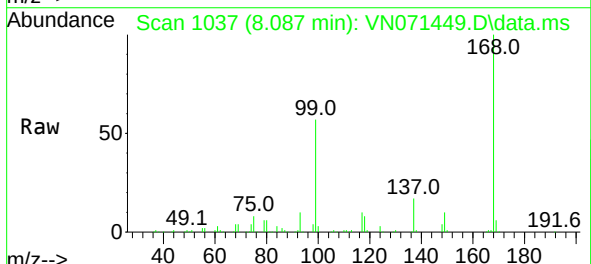
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

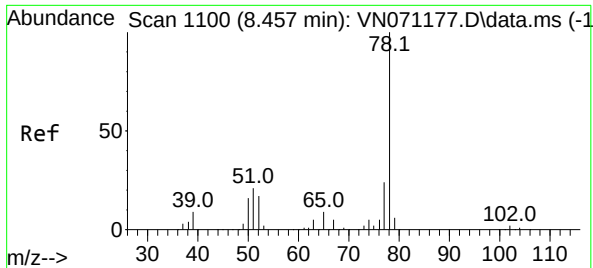
Tgt Ion: 43 Resp: 10806
Ion Ratio Lower Upper
43 100
61 1.2 11.5 17.3#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 5.949 ug/l
RT: 8.087 min Scan# 1037
Delta R.T. -0.118 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 117 Resp: 74820
Ion Ratio Lower Upper
117 100
119 5.6 76.1 114.1#
121 0.0 24.2 36.2#

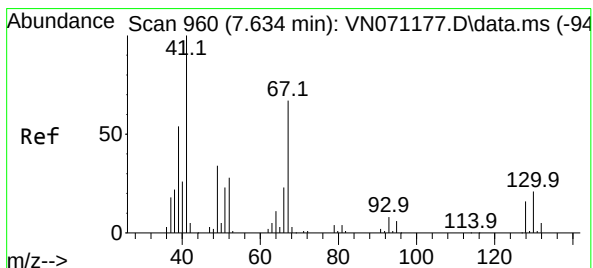
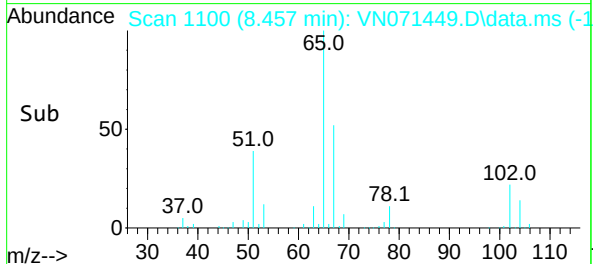
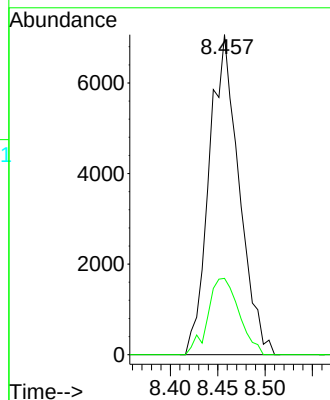
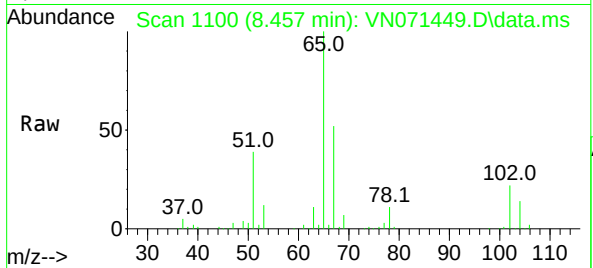




#40
Benzene
Concen: 0.396 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

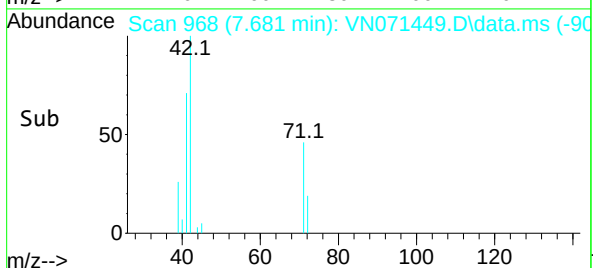
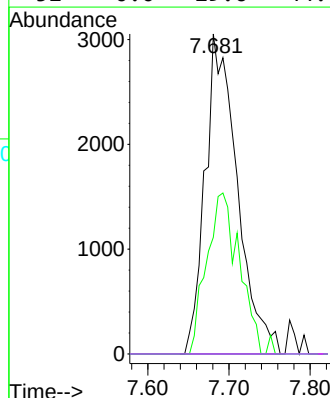
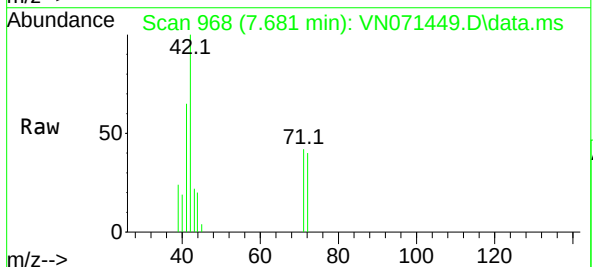
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

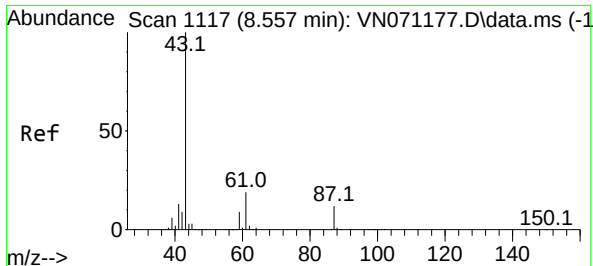
Tgt Ion: 78 Resp: 15527
Ion Ratio Lower Upper
78 100
77 23.8 18.6 27.8



#41
Methacrylonitrile
Concen: 0.958 ug/l
RT: 7.681 min Scan# 968
Delta R.T. 0.047 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 41 Resp: 8387
Ion Ratio Lower Upper
41 100
39 50.9 48.1 72.1
67 0.0 68.3 102.5#
52 0.0 29.6 44.4#

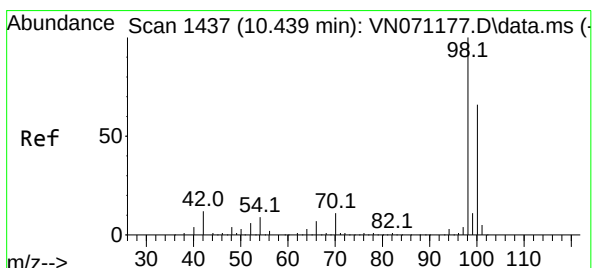
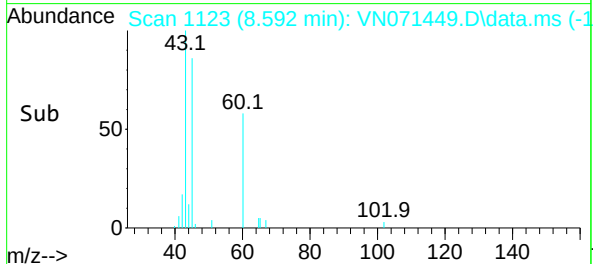
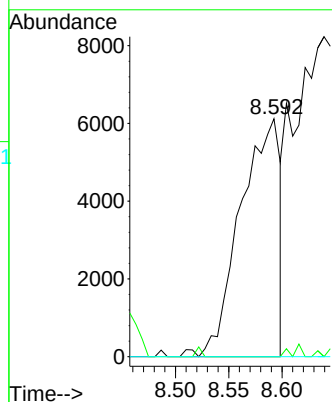
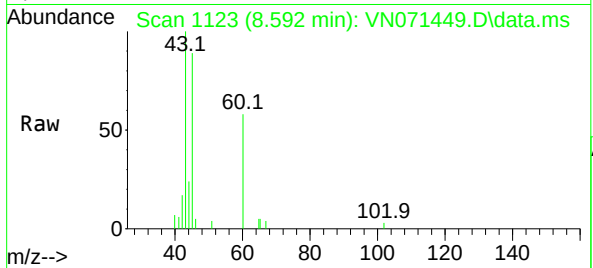




#43
Isopropyl Acetate
Concen: 0.593 ug/l
RT: 8.592 min Scan# 1117
Delta R.T. 0.035 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

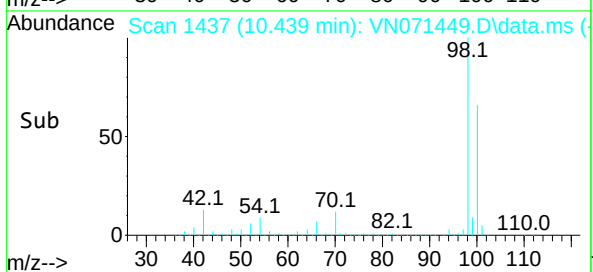
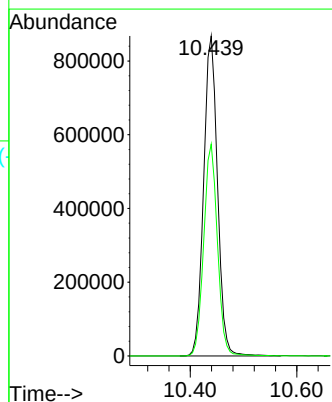
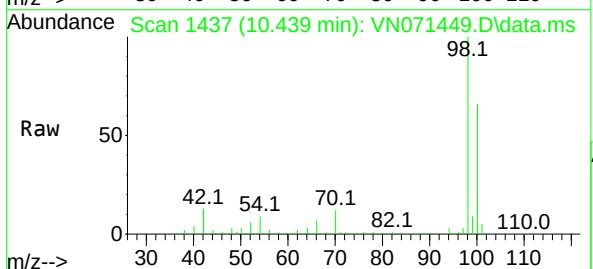
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

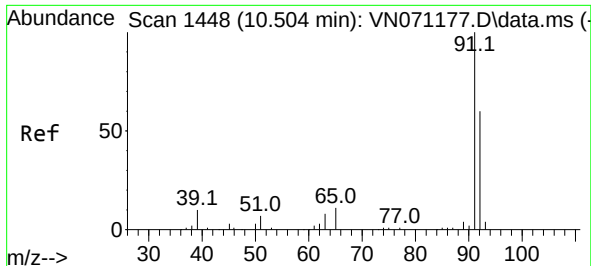
Tgt Ion: 43 Resp: 15862
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#



#50
Toluene-d8
Concen: 47.926 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 98 Resp: 1566034
Ion Ratio Lower Upper
98 100
100 65.5 50.4 75.6

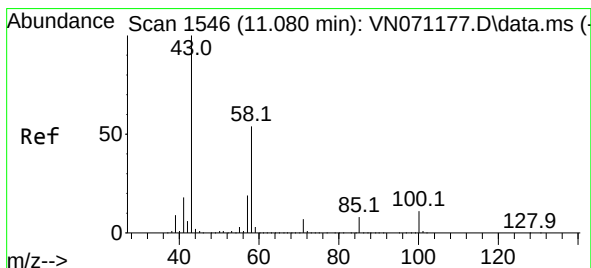
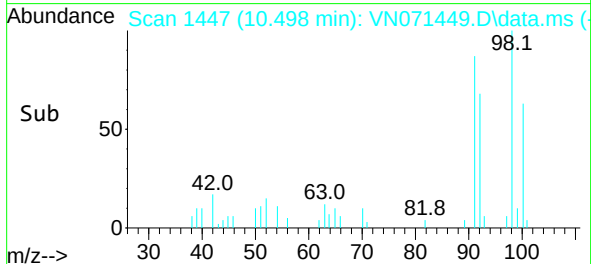
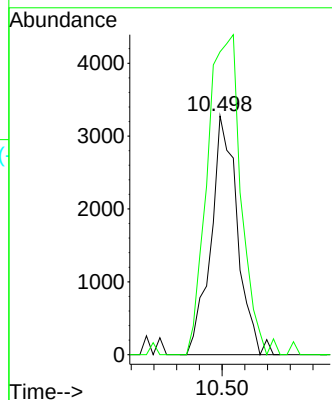
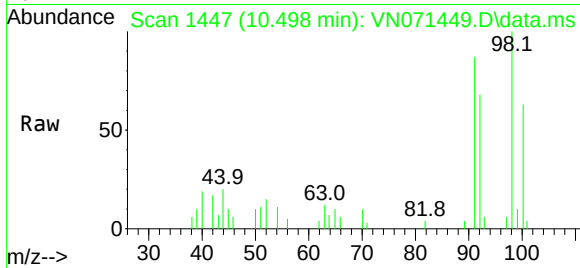




#52
Toluene
Concen: 0.220 ug/l
RT: 10.498 min Scan# 1448
Delta R.T. -0.006 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

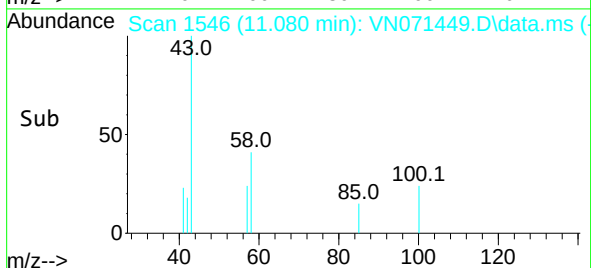
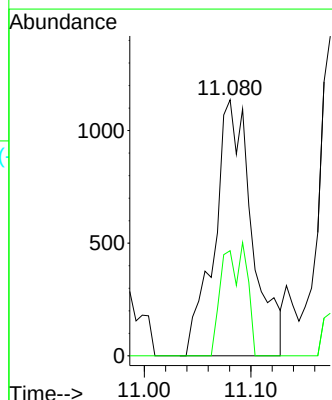
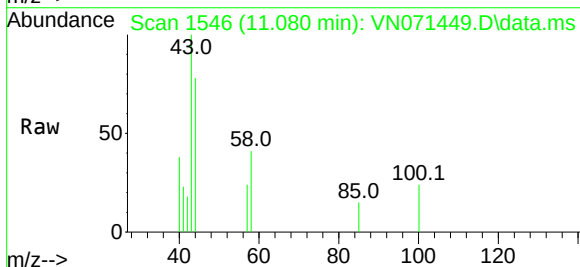
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

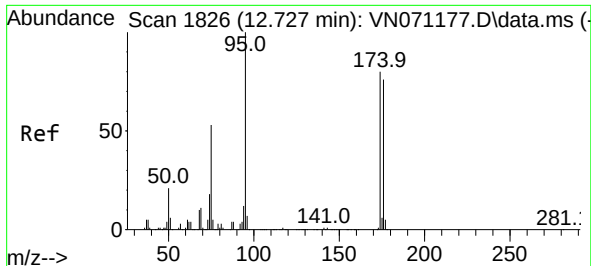
Tgt Ion: 92 Resp: 5308
Ion Ratio Lower Upper
92 100
91 170.3 142.0 213.0



#59
2-Hexanone
Concen: 0.246 ug/l
RT: 11.080 min Scan# 1546
Delta R.T. 0.000 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 43 Resp: 2792
Ion Ratio Lower Upper
43 100
58 28.7 26.9 80.7

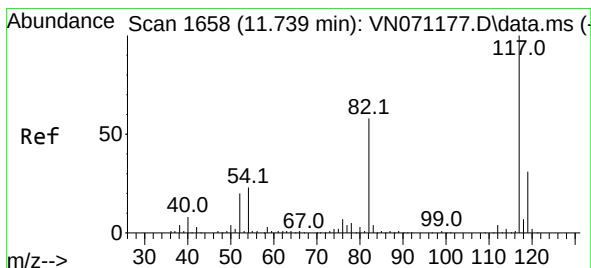
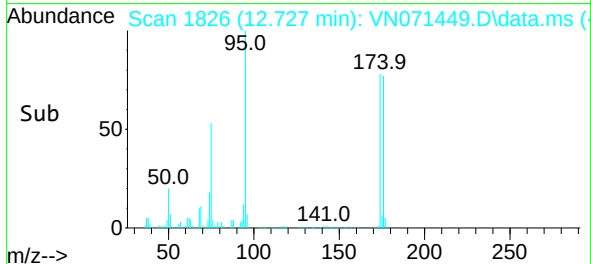
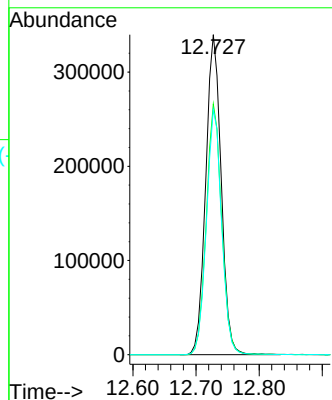
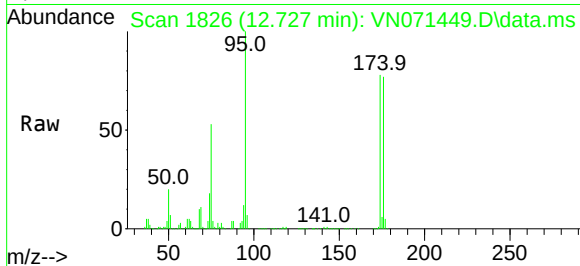




#62
4-Bromofluorobenzene
Concen: 52.185 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

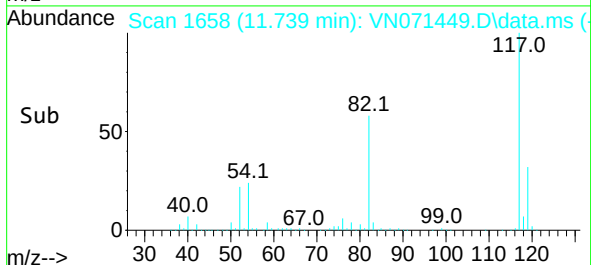
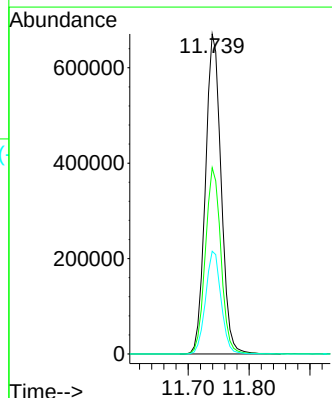
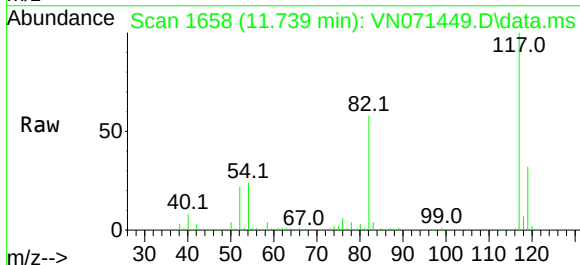
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

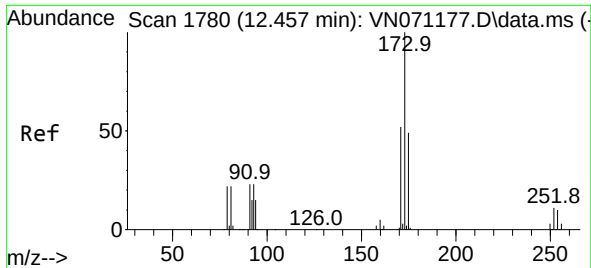
Tgt Ion: 95 Resp: 577425
Ion Ratio Lower Upper
95 100
174 77.8 0.0 187.2
176 75.6 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 117 Resp: 1199996
Ion Ratio Lower Upper
117 100
82 58.2 42.4 63.6
119 32.1 25.4 38.2

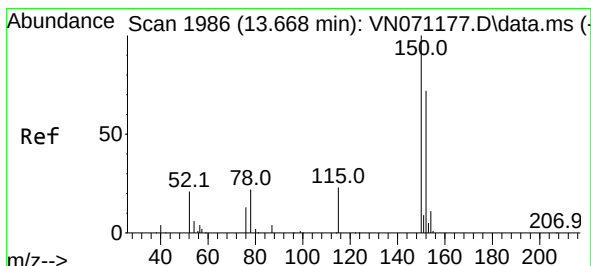
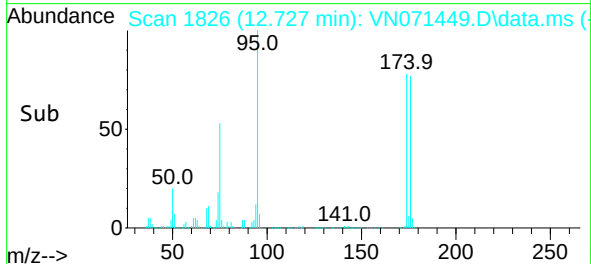
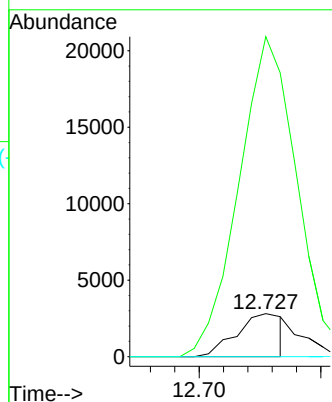
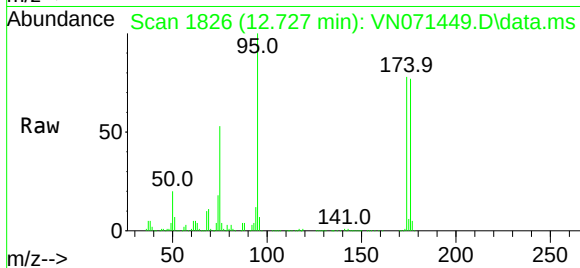




#71
Bromoform
Concen: 0.520 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

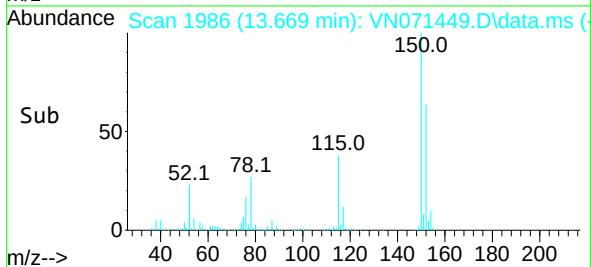
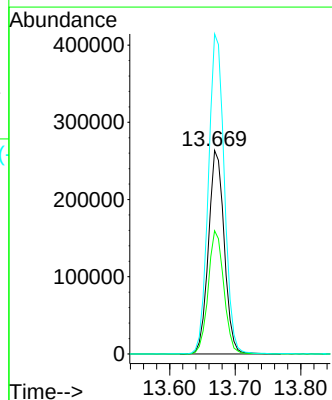
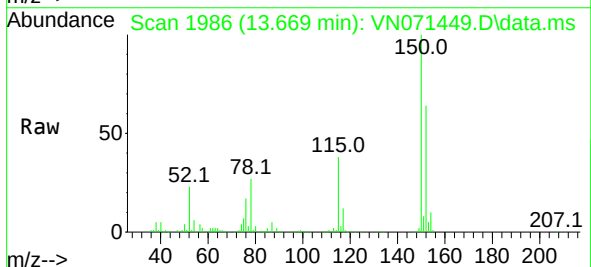
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

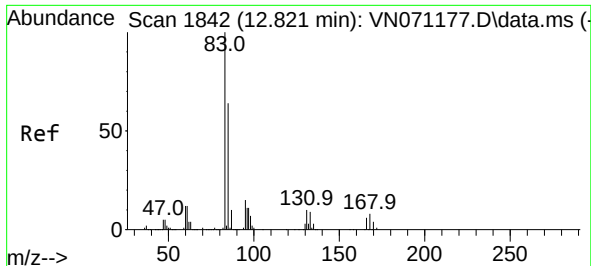
Tgt Ion:173 Resp: 3734
Ion Ratio Lower Upper
173 100
175 705.8 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.001 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion:152 Resp: 441209
Ion Ratio Lower Upper
152 100
115 60.1 27.5 82.5
150 158.8 0.0 344.4

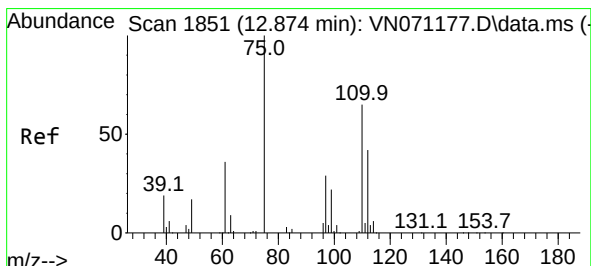
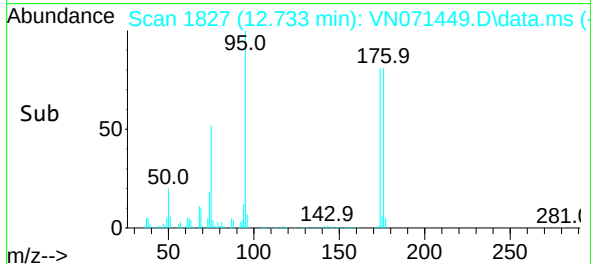
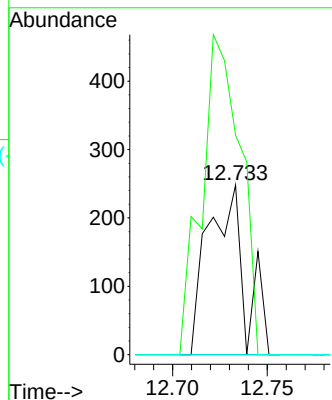
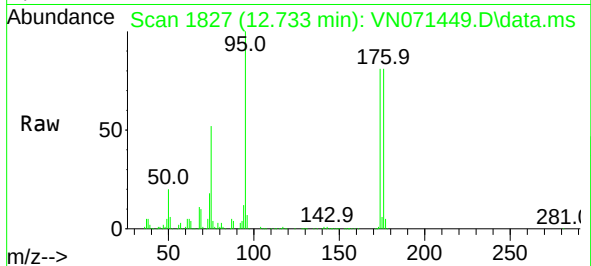




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.733 min Scan# 1827
Delta R.T. -0.088 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

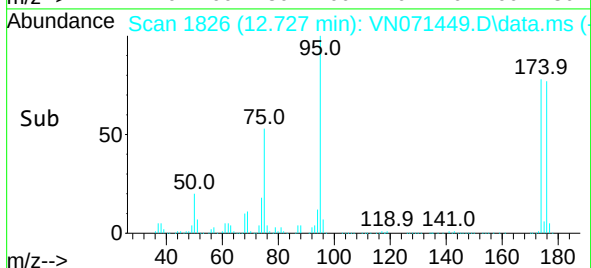
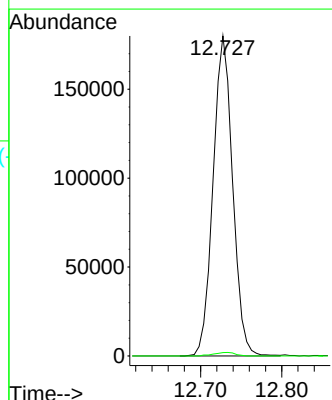
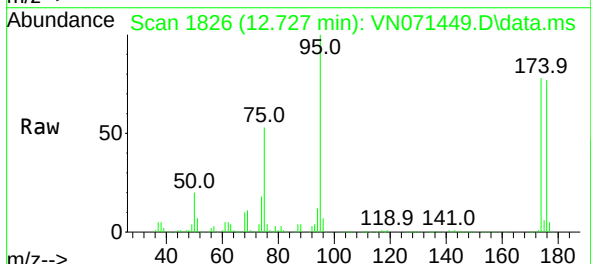
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

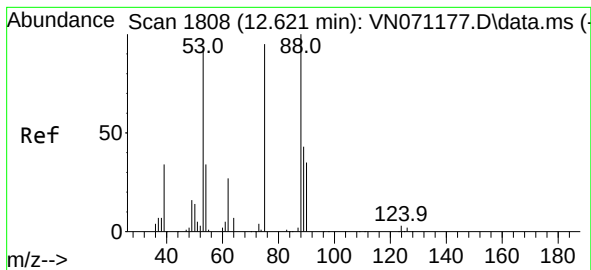
Tgt Ion: 83 Resp: 335
Ion Ratio Lower Upper
83 100
131 198.8 5.5 16.5#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 26.853 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 75 Resp: 301119
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#

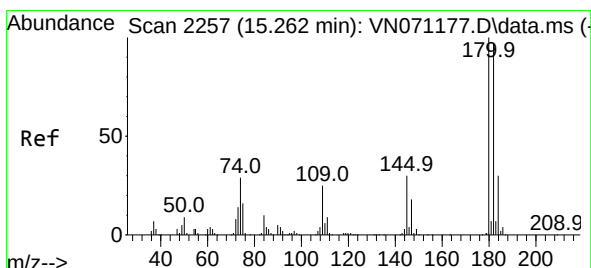
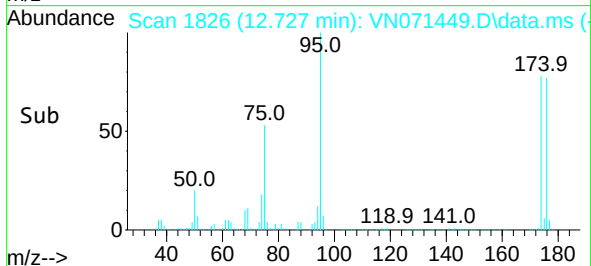
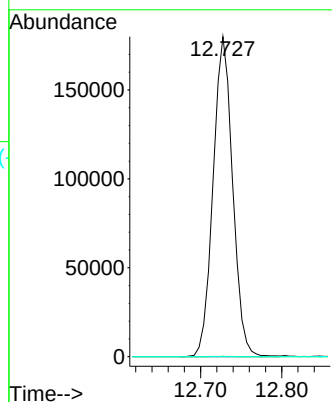
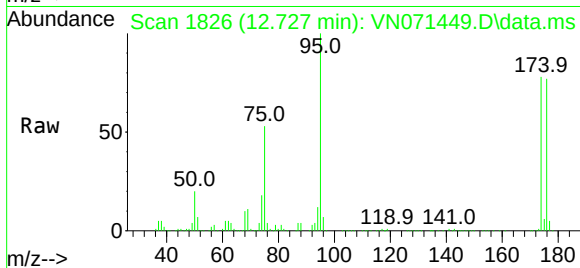




#81
trans-1,4-Dichloro-2-butene
Concen: 73.776 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

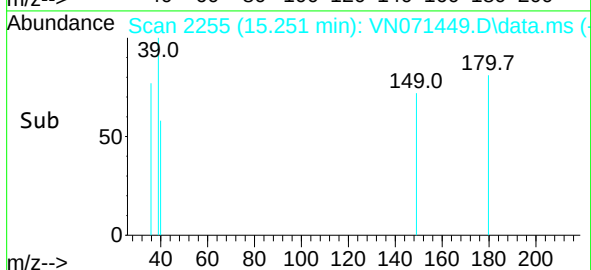
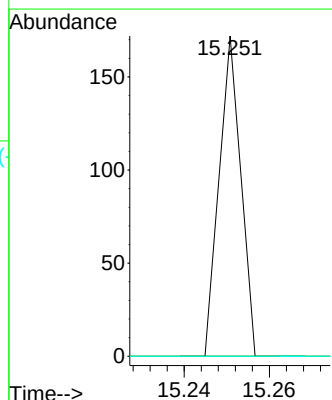
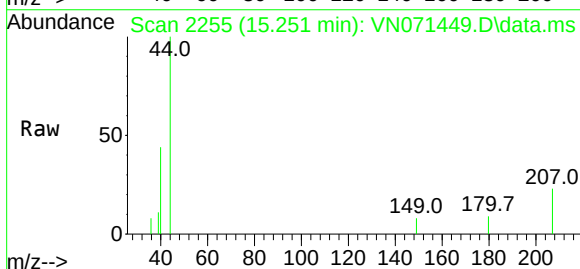
Instrument :
MSVOA_N
ClientSampleId :
TWP-3

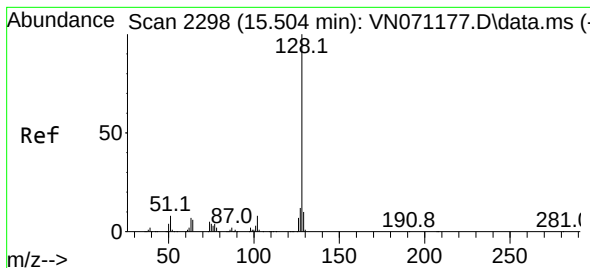
Tgt Ion: 75 Resp: 301119
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.997 ug/l
RT: 15.251 min Scan# 2255
Delta R.T. -0.011 min
Lab File: VN071449.D
Acq: 22 Mar 2022 04:32

Tgt Ion: 180 Resp: 61
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.9#
145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 5.153 ug/l

RT: 15.504 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

Instrument :

MSVOA_N

ClientSampleId :

TWP-3

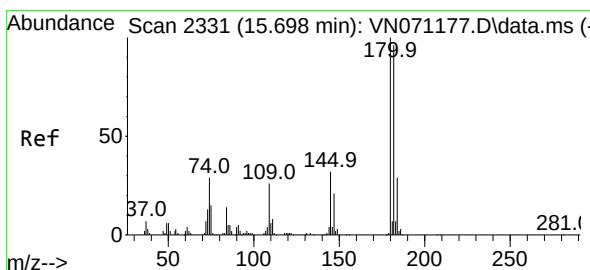
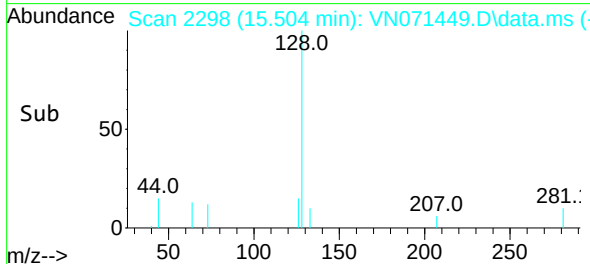
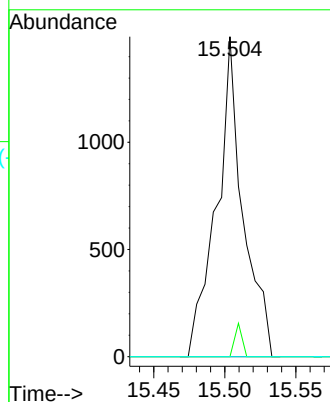
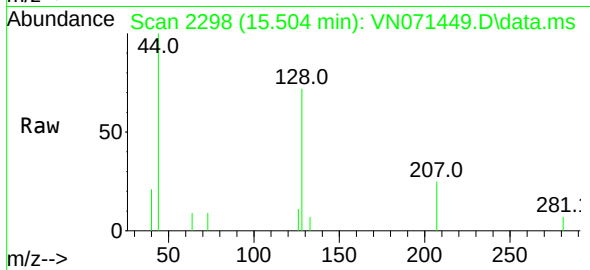
Tgt Ion:128 Resp: 1929

Ion Ratio Lower Upper

128 100

127 2.9 10.5 15.7#

129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 2.739 ug/l

RT: 15.692 min Scan# 2330

Delta R.T. -0.006 min

Lab File: VN071449.D

Acq: 22 Mar 2022 04:32

Tgt Ion:180 Resp: 54

Ion Ratio Lower Upper

180 100

182 103.7 47.4 142.2

145 0.0 15.0 45.1#

