

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011723\
 Data File : VN076281.D
 Acq On : 17 Jan 2023 15:36
 Operator : JC\MD
 Sample : 01172-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-F

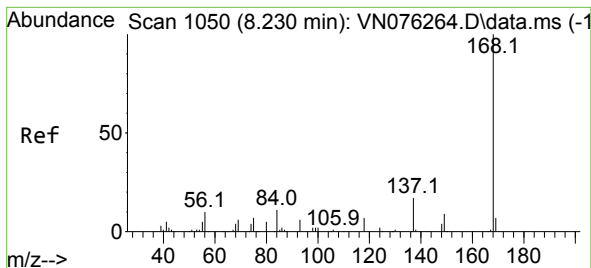
Quant Time: Jan 18 00:56:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	340097	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	561733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	496701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	209660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	189531	49.772	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.540%
35) Dibromofluoromethane	8.177	113	166926	47.505	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.000%
50) Toluene-d8	10.571	98	653210	50.335	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.680%
62) 4-Bromofluorobenzene	12.853	95	206796	48.814	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.620%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.506	59	127	0.249	ug/l #	72
16) Acetone	4.453	43	30309	24.762	ug/l	94
18) Methyl Acetate	5.047	43	3481	0.841	ug/l #	68
20) Methylene Chloride	5.283	84	13621	3.207	ug/l #	89
25) 2-Butanone	7.506	43	4789	2.569	ug/l	89
31) Cyclohexane	8.235	56	7198	1.230	ug/l #	18
36) 1,1-Dichloropropene	8.230	75	25590	5.125	ug/l #	49
37) Ethyl Acetate	7.571	43	28682	7.193	ug/l #	95
38) Carbon Tetrachloride	8.230	117	34384	6.175	ug/l #	16
42) 1,2-Dichloroethane	8.700	62	1299	0.254	ug/l #	73
43) Isopropyl Acetate	8.694	43	271200	41.625	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	1550	0.434	ug/l #	42
48) Methyl methacrylate	9.677	41	4272	1.385	ug/l #	34
49) 1,4-Dioxane	9.753	88	125	1.921	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	13267	3.469	ug/l #	78
53) t-1,3-Dichloropropene	10.729	75	1091	0.219	ug/l #	42
54) cis-1,3-Dichloropropene	10.359	75	64089	11.164	ug/l #	64
56) Ethyl methacrylate	10.988	69	1876	0.381	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7488	1.207	ug/l #	42
59) 2-Hexanone	11.176	43	129778	46.824	ug/l #	21
71) Bromoform	12.847	173	1212	0.430	ug/l #	1
74) N-amyl acetate	12.488	43	1435	0.308	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	107375	27.690	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	107375	85.211	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.400	180	299	1.384	ug/l #	53
95) Naphthalene	15.647	128	1153	1.941	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.841	180	55	1.169	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

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MSVOA_N

ClientSampleId :

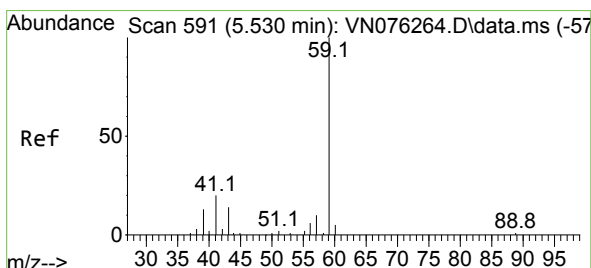
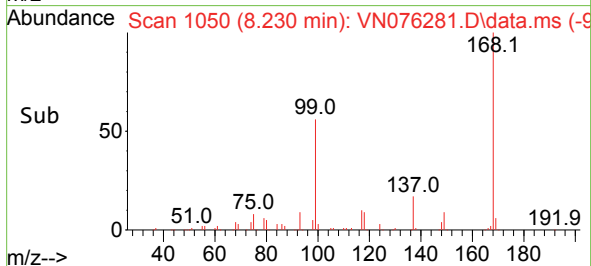
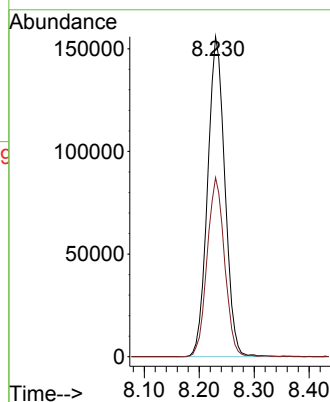
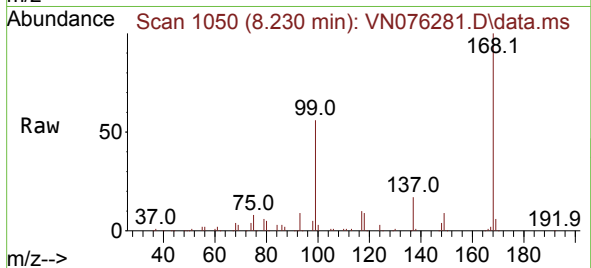
TP-F

Tgt Ion:168 Resp: 340097

Ion Ratio Lower Upper

168 100

99 56.0 41.6 62.4



#11

Tert butyl alcohol

Concen: 0.249 ug/l

RT: 5.506 min Scan# 587

Delta R.T. -0.024 min

Lab File: VN076281.D

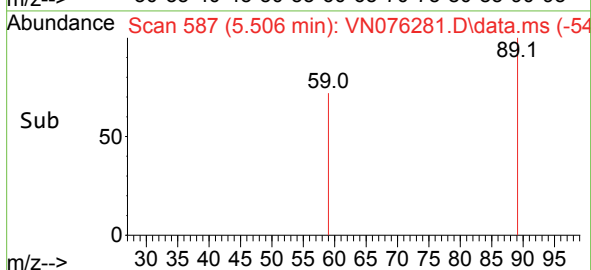
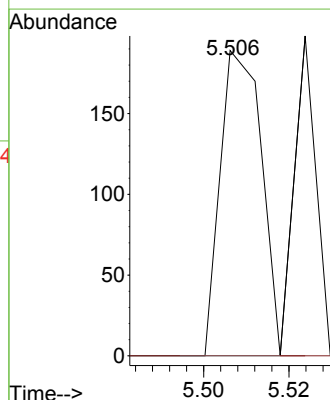
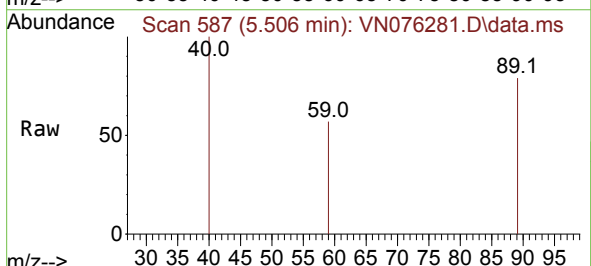
Acq: 17 Jan 2023 15:36

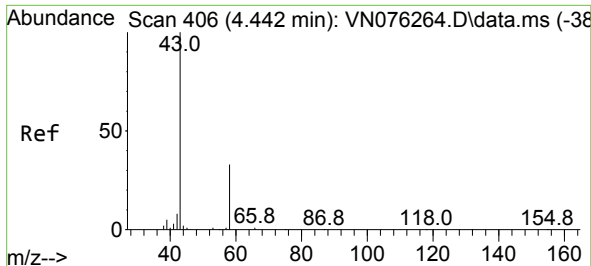
Tgt Ion: 59 Resp: 127

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

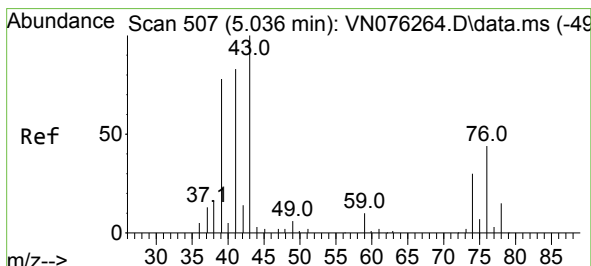
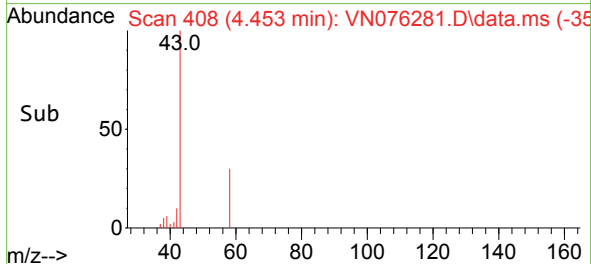
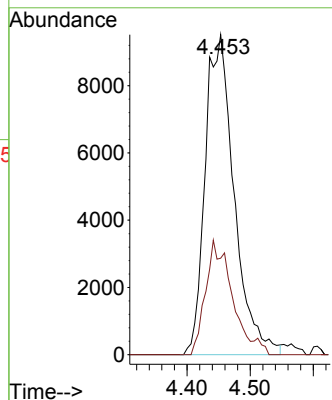
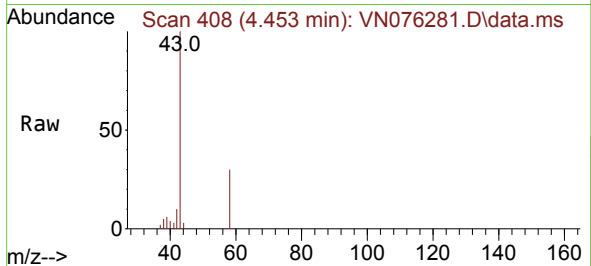




#16
Acetone
Concen: 24.762 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.011 min
Lab File: VN076281.D
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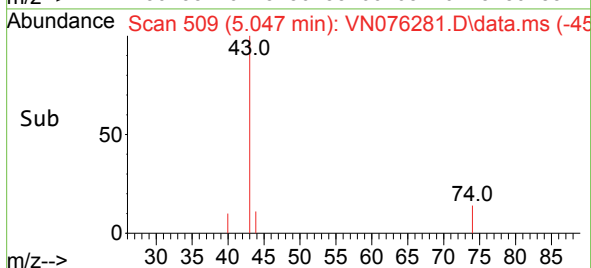
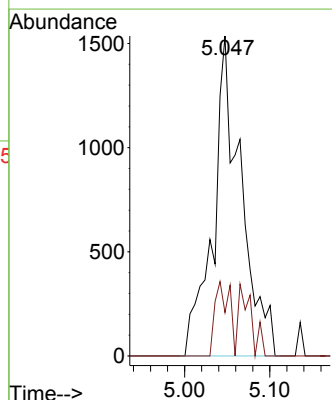
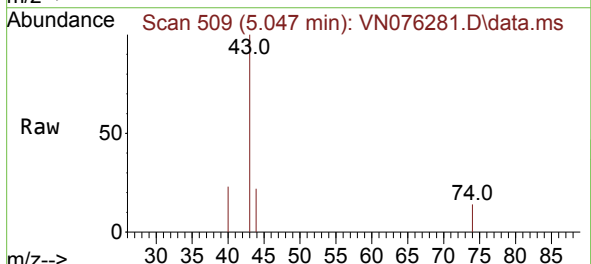
Instrument :
MSVOA_N
ClientSampleId :
TP-F

Tgt Ion: 43 Resp: 30309
Ion Ratio Lower Upper
43 100
58 30.1 26.7 40.1



#18
Methyl Acetate
Concen: 0.841 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.011 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 43 Resp: 3481
Ion Ratio Lower Upper
43 100
74 11.8 23.3 34.9#

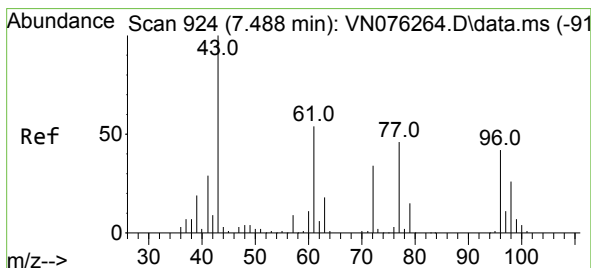
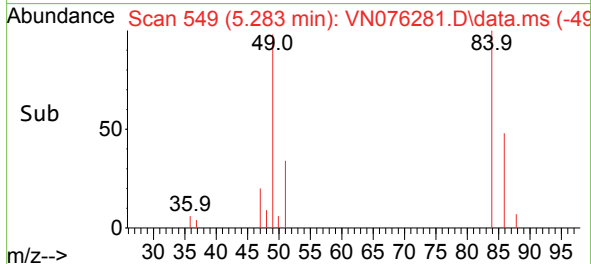
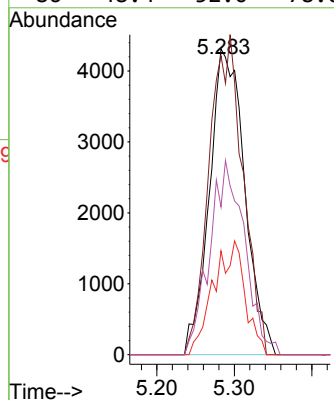
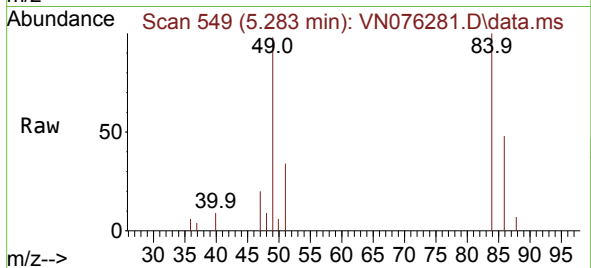




#20
Methylene Chloride
Concen: 3.207 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

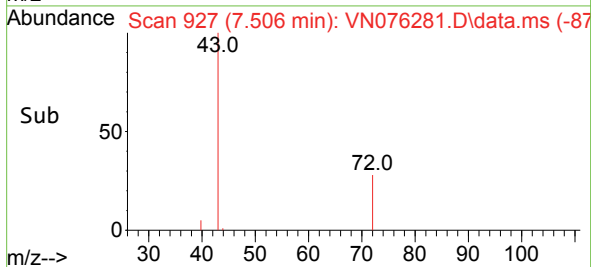
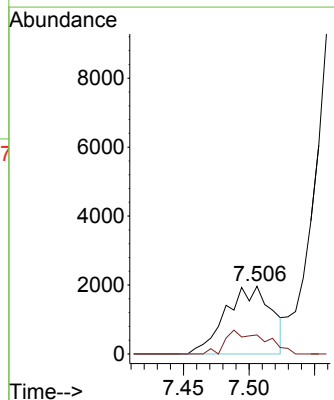
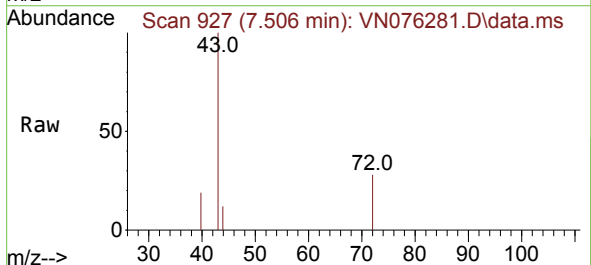
Instrument :
MSVOA_N
ClientSampleId :
TP-F

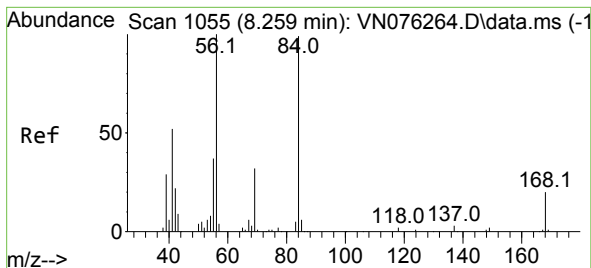
Tgt Ion: 84	Resp: 13621
Ion Ratio	Lower Upper
84 100	
49 97.8	84.5 126.7
51 33.9	26.0 39.0
86 48.4	52.0 78.0#



#25
2-Butanone
Concen: 2.569 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 43	Resp: 4789		
Ion Ratio	Lower	Upper	
43 100			
72 28.2	27.4	41.2	





#31

Cyclohexane

Concen: 1.230 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.024 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

TP-F

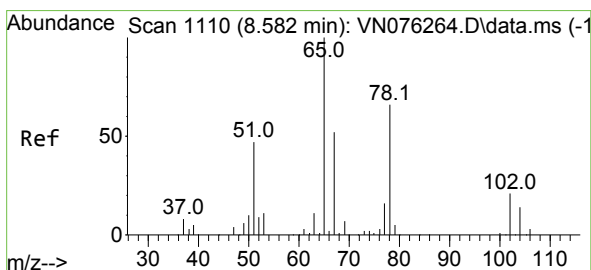
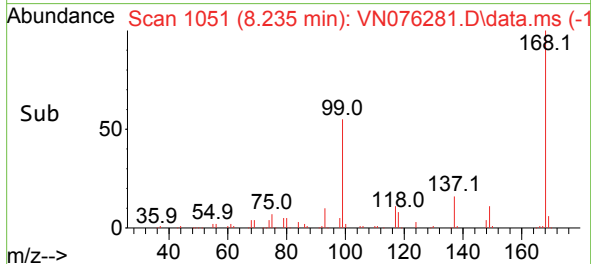
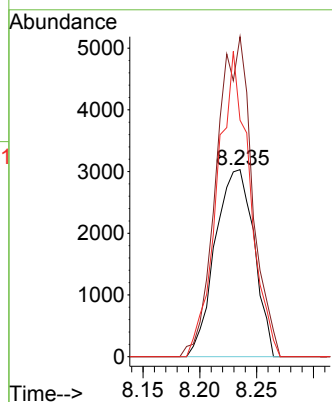
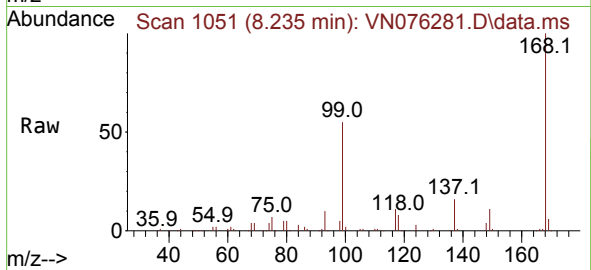
Tgt Ion: 56 Resp: 7198

Ion Ratio Lower Upper

56 100

69 171.1 25.8 38.8#

84 126.4 79.0 118.4#



#33

1,2-Dichloroethane-d4

Concen: 49.772 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076281.D

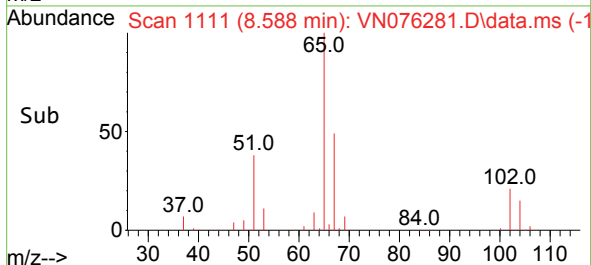
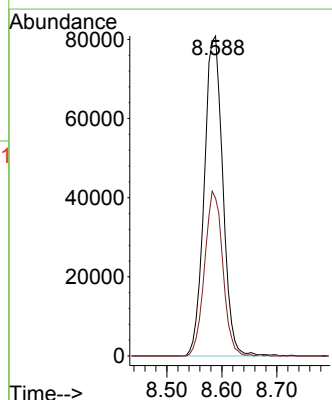
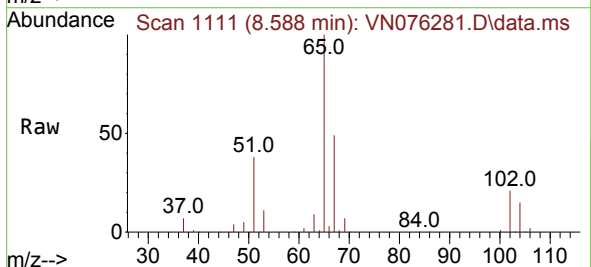
Acq: 17 Jan 2023 15:36

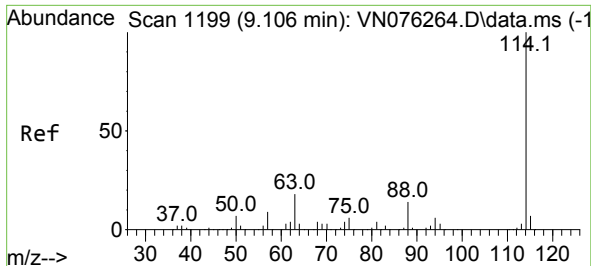
Tgt Ion: 65 Resp: 189531

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

TP-F

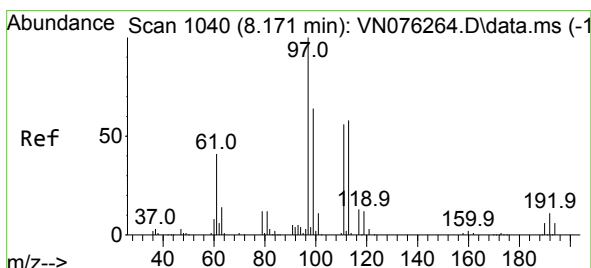
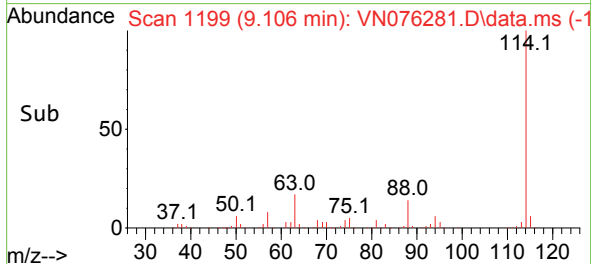
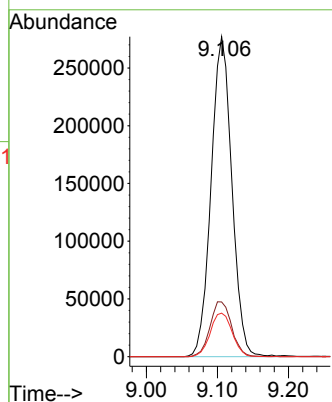
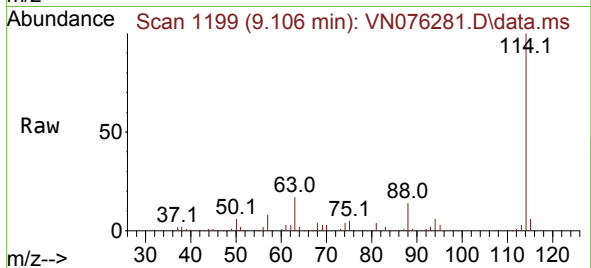
Tgt Ion:114 Resp: 561733

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.8

88 13.6 0.0 28.0



#35

Dibromofluoromethane

Concen: 47.505 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

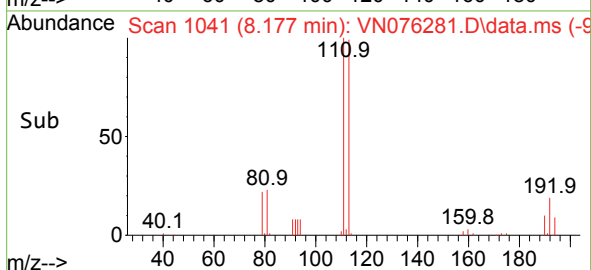
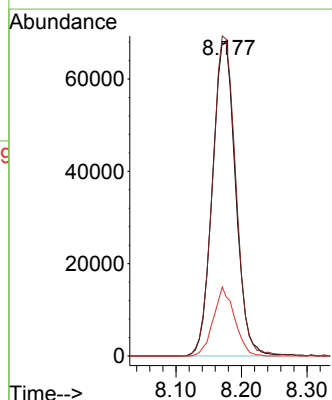
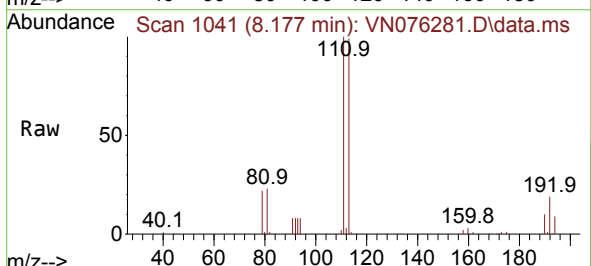
Tgt Ion:113 Resp: 166926

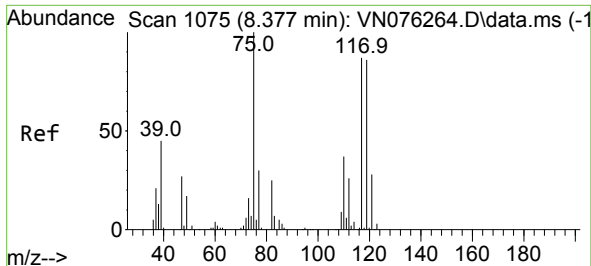
Ion Ratio Lower Upper

113 100

111 102.1 82.7 124.1

192 20.1 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.125 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076281.D

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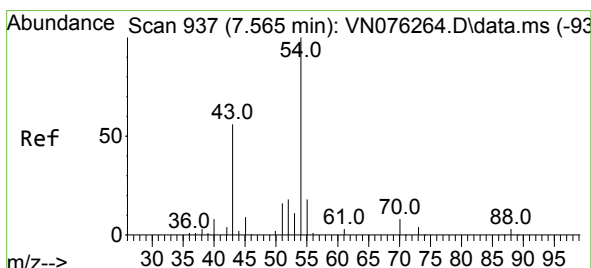
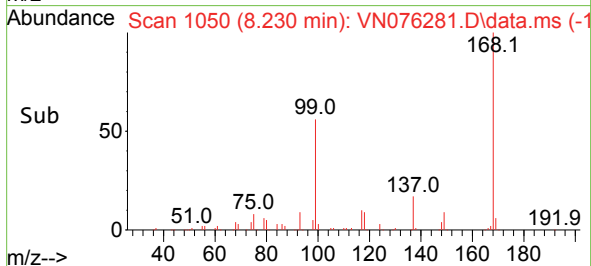
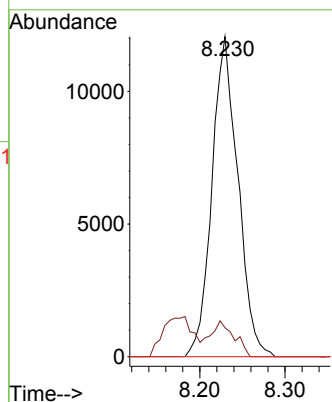
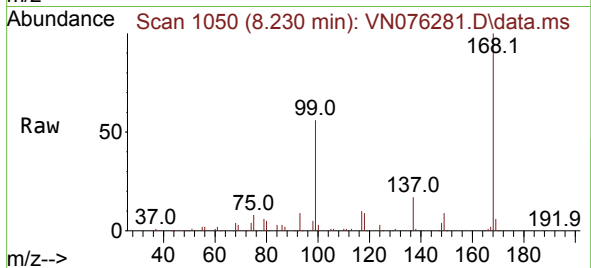
Tgt Ion: 75 Resp: 25590

Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 7.193 ug/l

RT: 7.571 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

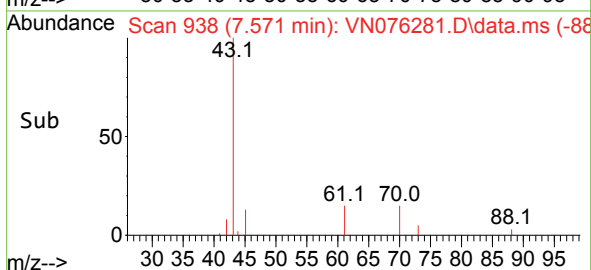
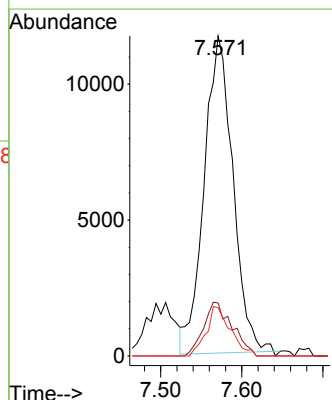
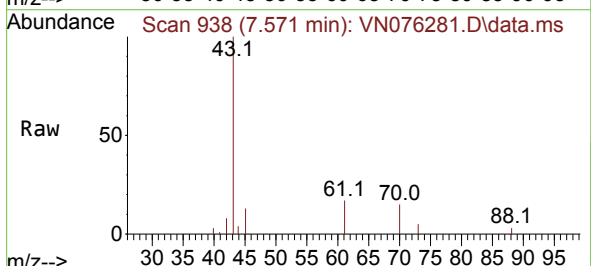
Tgt Ion: 43 Resp: 28682

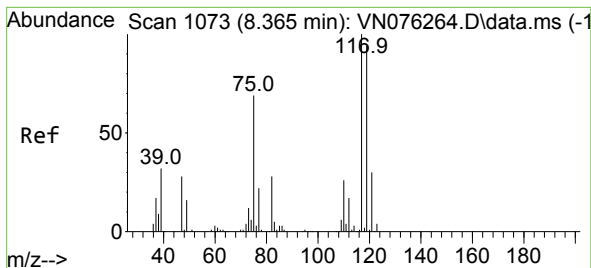
Ion Ratio Lower Upper

43 100

61 16.9 11.1 16.7#

70 13.1 10.0 15.0





#38

Carbon Tetrachloride

Concen: 6.175 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.135 min

Lab File: VN076281.D

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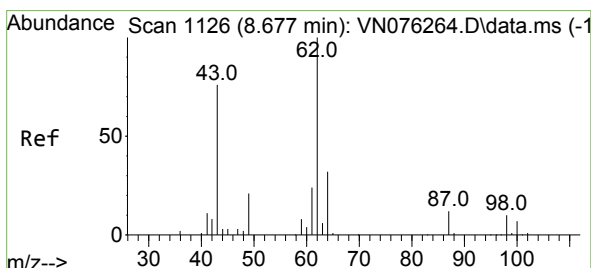
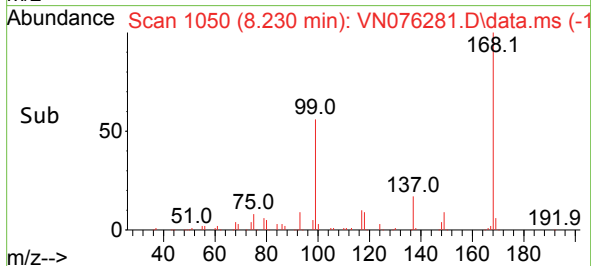
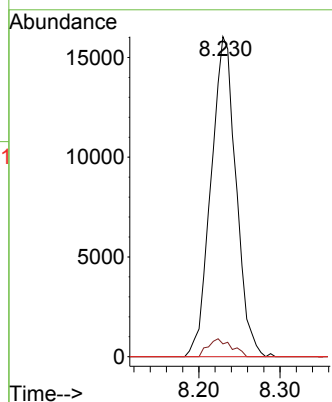
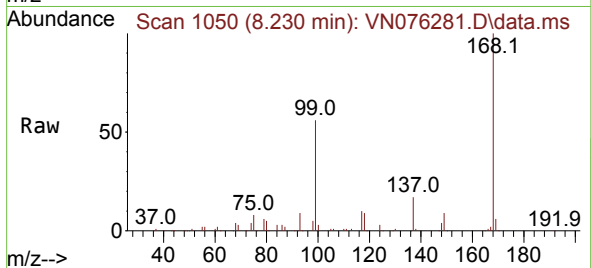
Tgt Ion:117 Resp: 34384

Ion Ratio Lower Upper

117 100

119 4.0 75.4 113.0#

121 0.0 24.2 36.2#



#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 8.700 min Scan# 1130

Delta R.T. 0.023 min

Lab File: VN076281.D

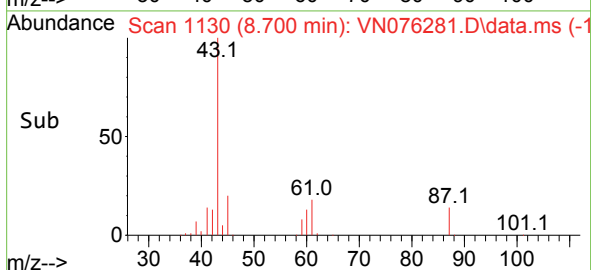
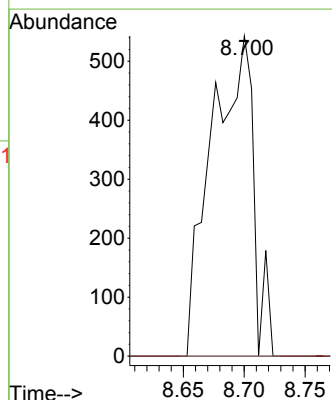
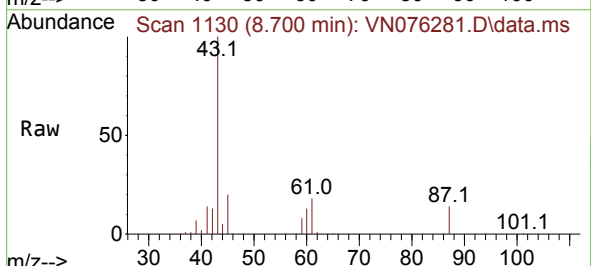
Acq: 17 Jan 2023 15:36

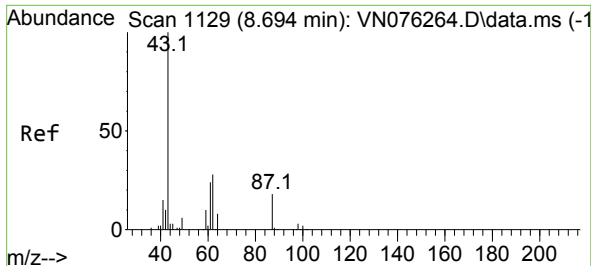
Tgt Ion: 62 Resp: 1299

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4

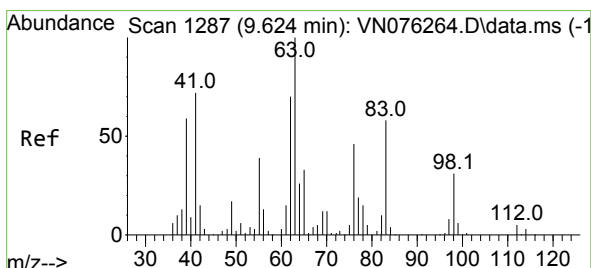
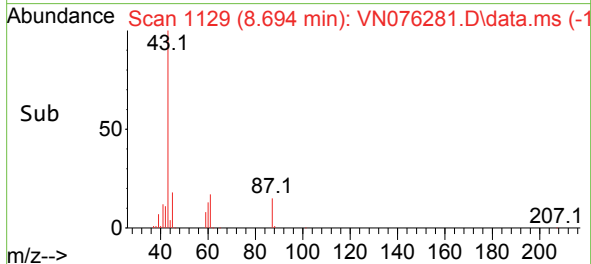
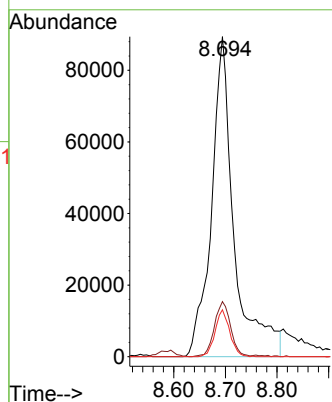
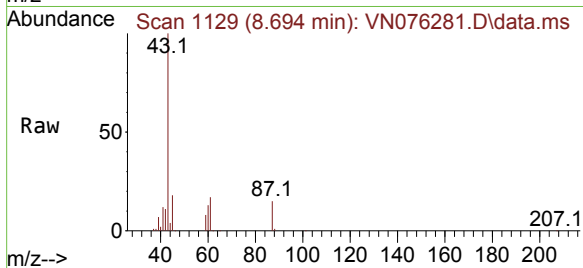




#43
Isopropyl Acetate
Concen: 41.625 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

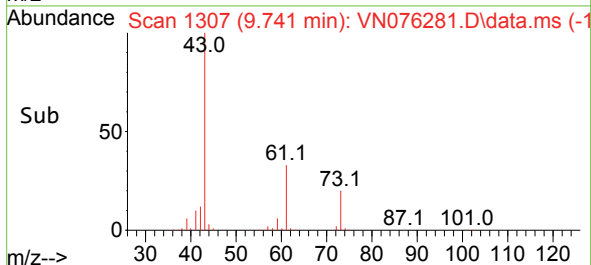
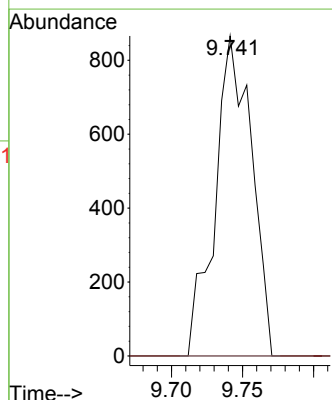
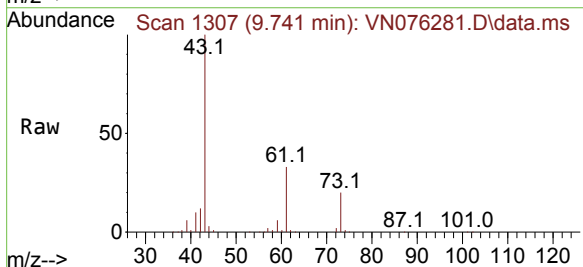
Instrument :
MSVOA_N
ClientSampleId :
TP-F

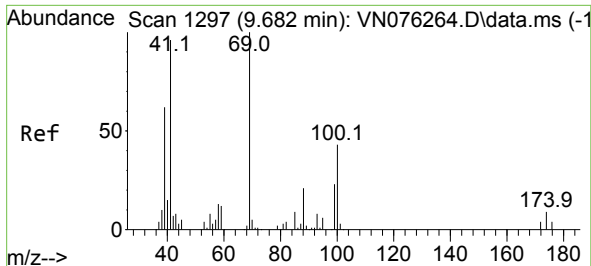
Tgt Ion: 43 Resp: 271200
Ion Ratio Lower Upper
43 100
61 12.4 23.5 35.3#
87 9.5 13.8 20.6#



#45
1,2-Dichloropropane
Concen: 0.434 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.117 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 63 Resp: 1550
Ion Ratio Lower Upper
63 100
65 0.0 26.4 39.6#





#48

Methyl methacrylate

Concen: 1.385 ug/l

RT: 9.677 min Scan# 1296

Delta R.T. -0.005 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

TP-F

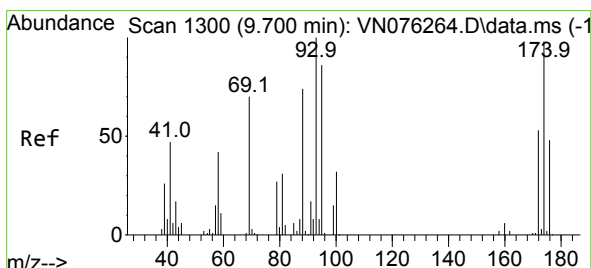
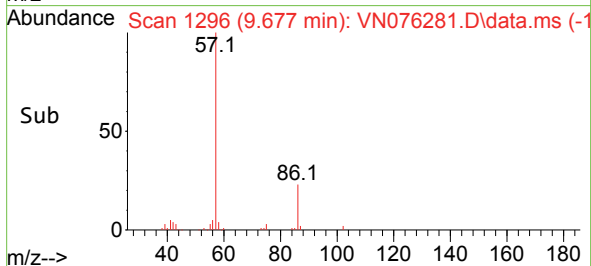
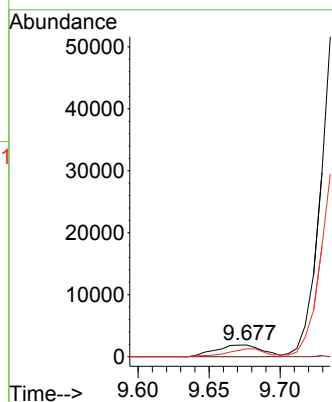
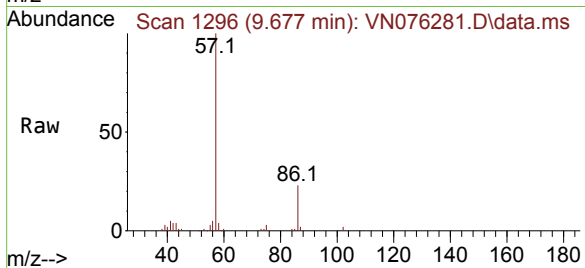
Tgt Ion: 41 Resp: 4272

Ion Ratio Lower Upper

41 100

69 0.0 80.8 121.2#

39 57.0 54.4 81.6



#49

1,4-Dioxane

Concen: 1.921 ug/l

RT: 9.753 min Scan# 1309

Delta R.T. 0.053 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

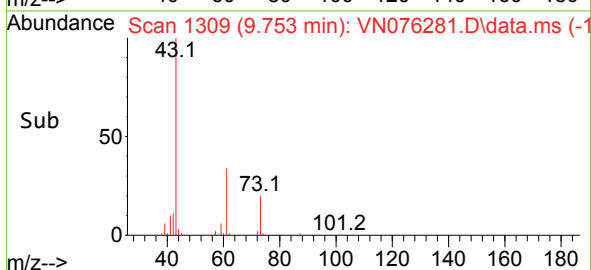
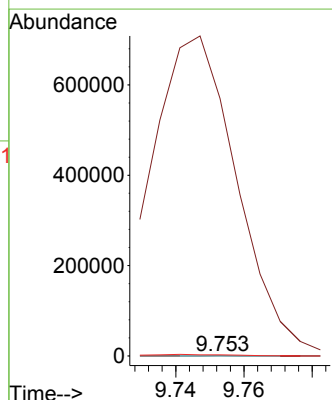
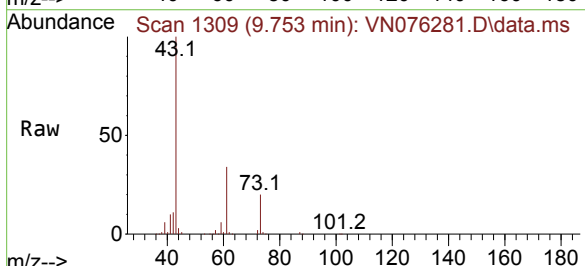
Tgt Ion: 88 Resp: 125

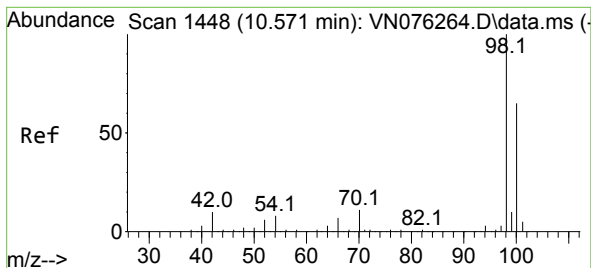
Ion Ratio Lower Upper

88 100

43 1032417.6 18.1 27.1#

58 4779.2 46.5 69.7#





#50

Toluene-d8

Concen: 50.335 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

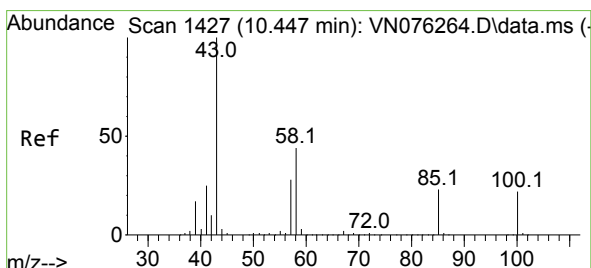
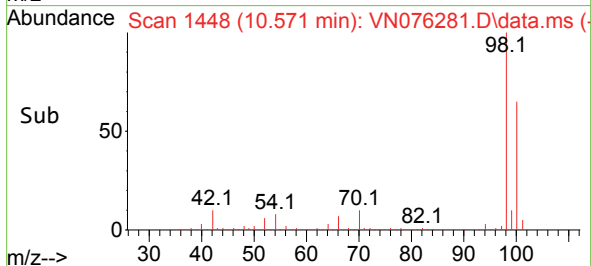
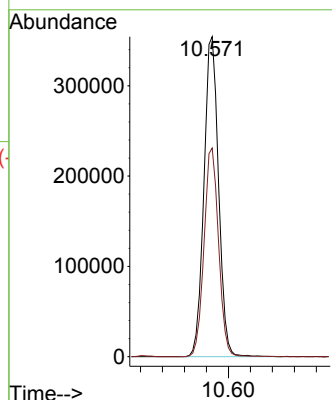
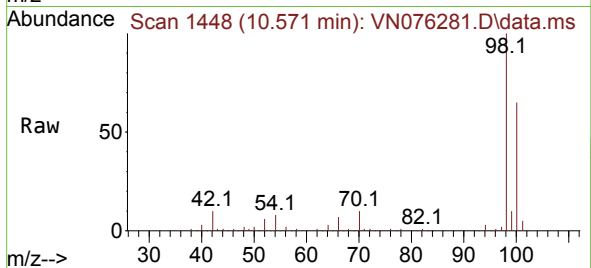
TP-F

Tgt Ion: 98 Resp: 653210

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 3.469 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN076281.D

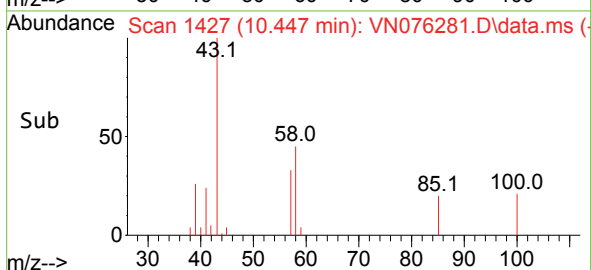
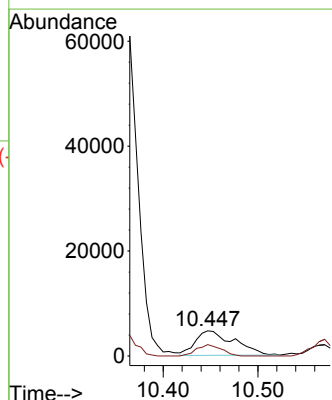
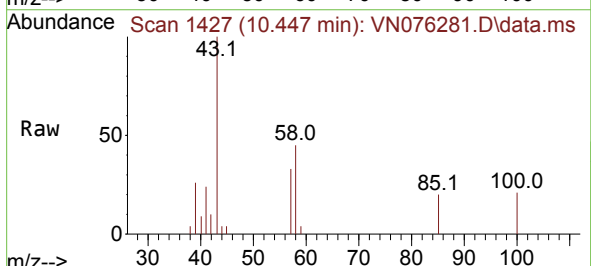
Acq: 17 Jan 2023 15:36

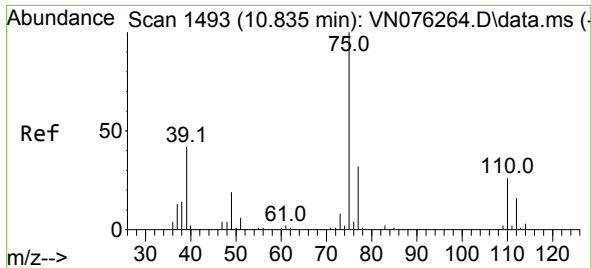
Tgt Ion: 43 Resp: 13267

Ion Ratio Lower Upper

43 100

58 29.5 35.1 52.7#

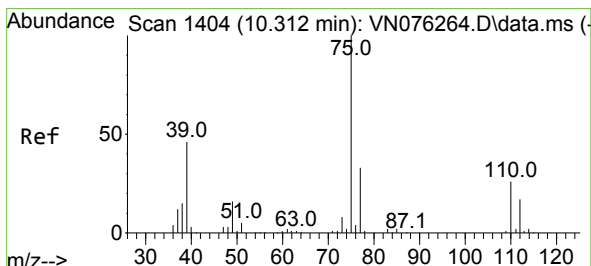
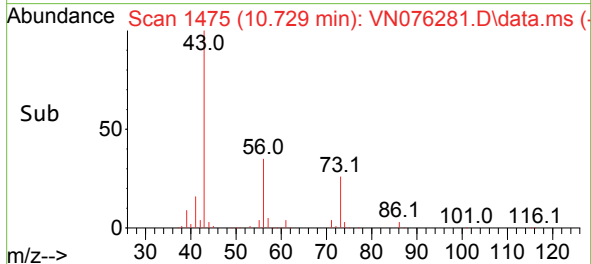
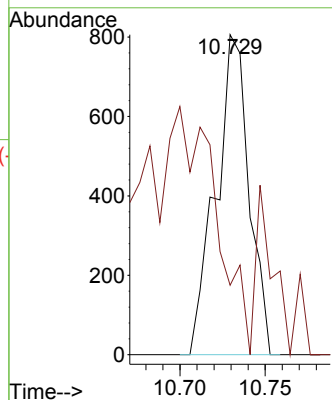
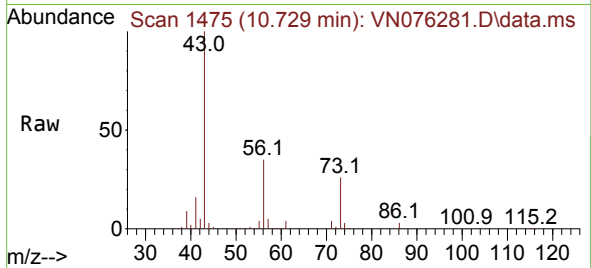




#53
t-1,3-Dichloropropene
Concen: 0.219 ug/l
RT: 10.729 min Scan# 1412
Delta R.T. -0.106 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

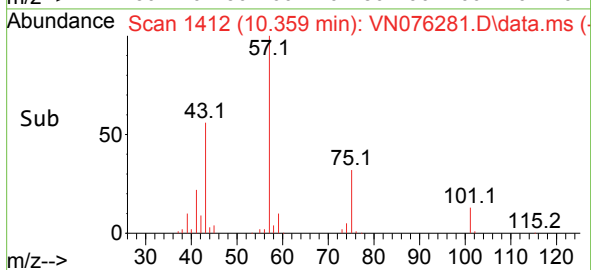
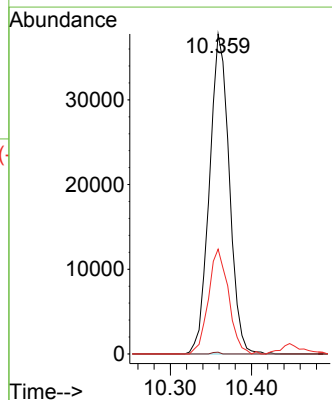
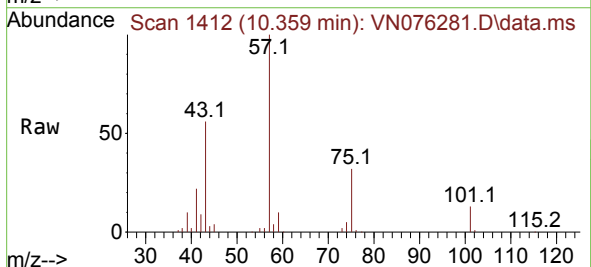
Instrument :
MSVOA_N
ClientSampleId :
TP-F

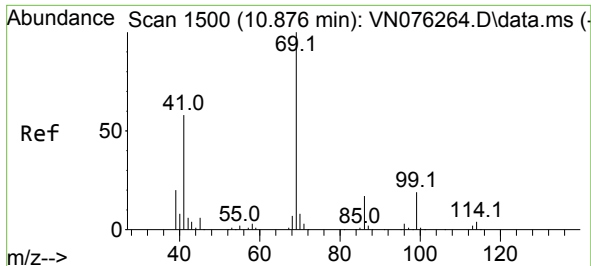
Tgt Ion: 75 Resp: 1091
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#



#54
cis-1,3-Dichloropropene
Concen: 11.164 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 75 Resp: 64089
Ion Ratio Lower Upper
75 100
77 0.6 26.5 39.7#
39 32.7 37.1 55.7#

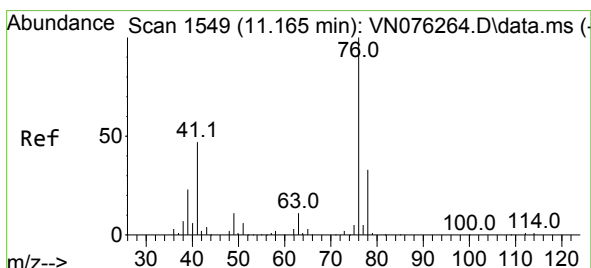
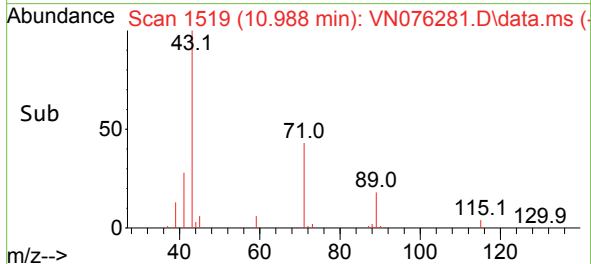
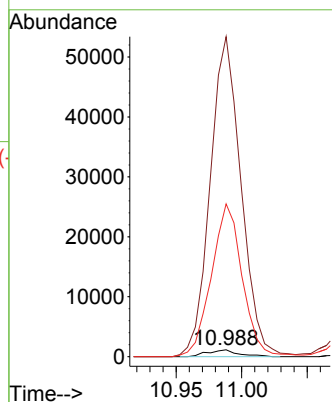
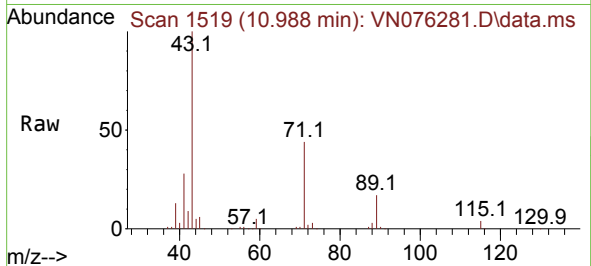




#56
Ethyl methacrylate
Concen: 0.381 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.112 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

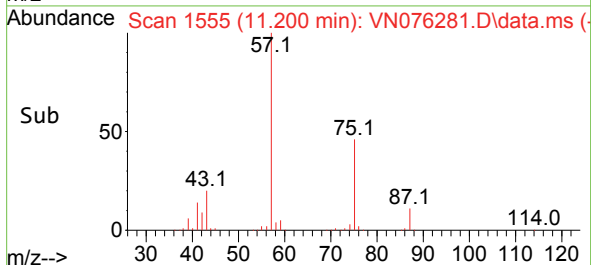
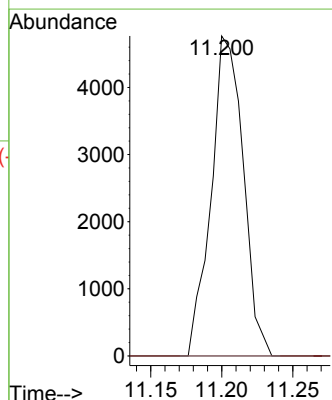
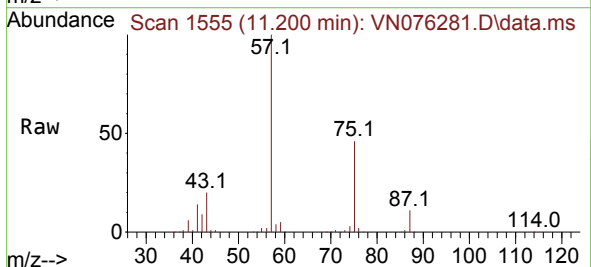
Instrument :
MSVOA_N
ClientSampleId :
TP-F

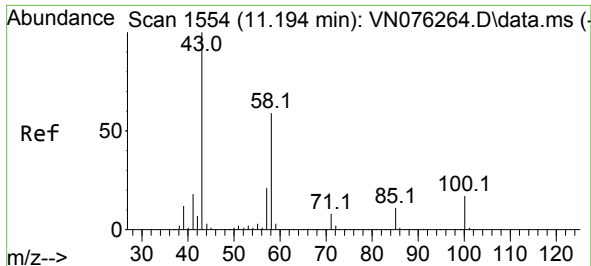
Tgt Ion: 69 Resp: 1876
Ion Ratio Lower Upper
69 100
41 4668.8 45.3 67.9#
39 2228.5 29.3 43.9#



#57
1,3-Dichloropropane
Concen: 1.207 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.035 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 76 Resp: 7488
Ion Ratio Lower Upper
76 100
78 0.0 26.4 39.6#

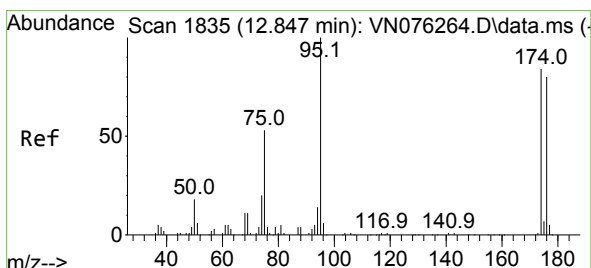
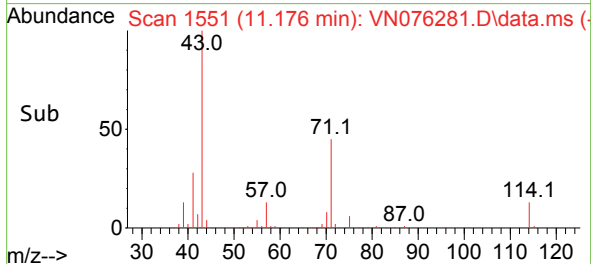
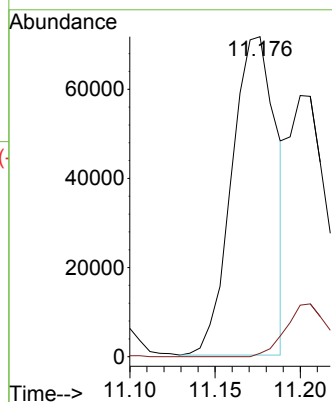
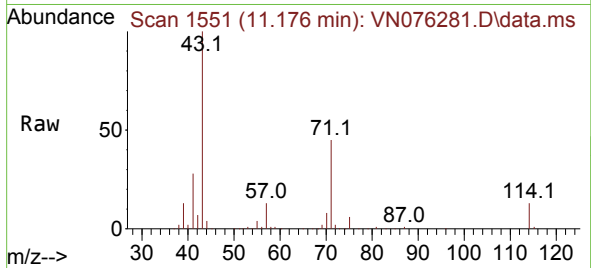




#59
2-Hexanone
Concen: 46.824 ug/l
RT: 11.176 min Scan# 111
Delta R.T. -0.018 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

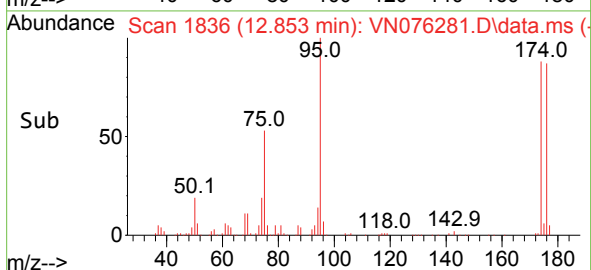
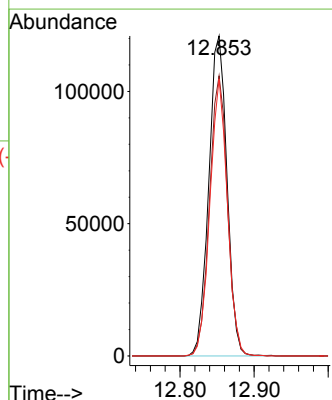
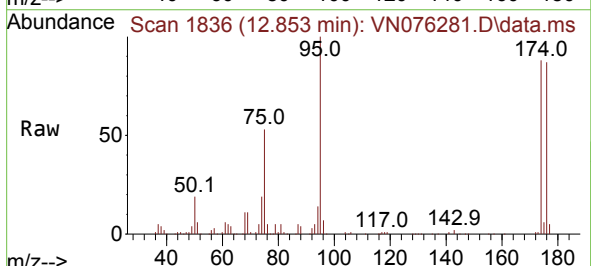
Instrument :
MSVOA_N
ClientSampleId :
TP-F

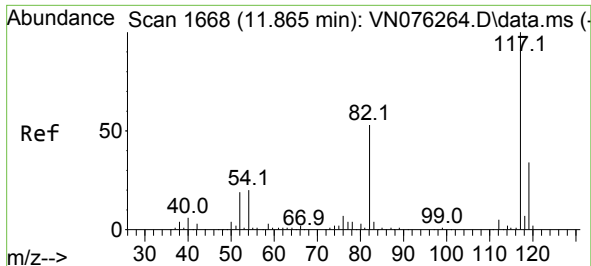
Tgt Ion: 43 Resp: 129778
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.3#



#62
4-Bromofluorobenzene
Concen: 48.814 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion: 95 Resp: 206796
Ion Ratio Lower Upper
95 100
174 86.2 0.0 174.6
176 82.8 0.0 167.8

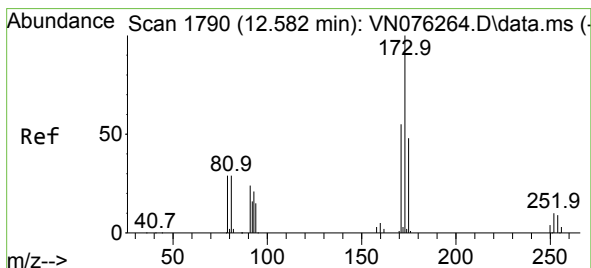
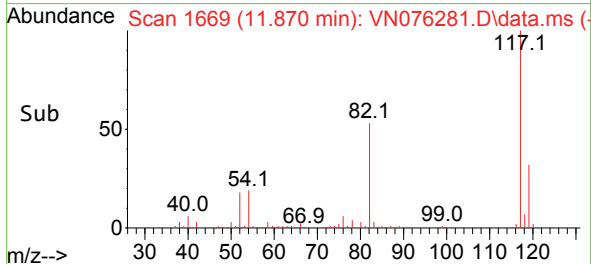
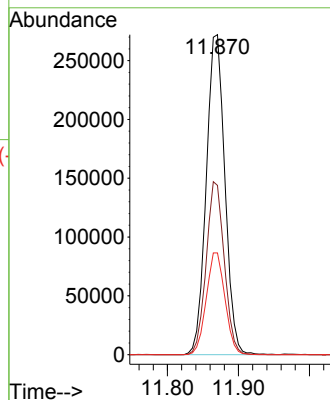
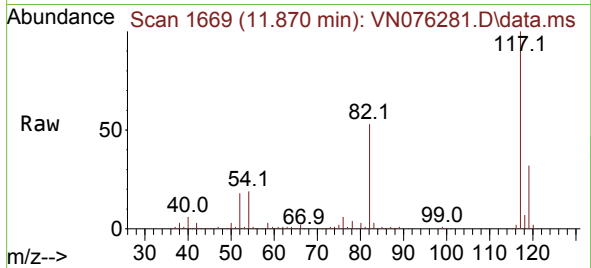




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

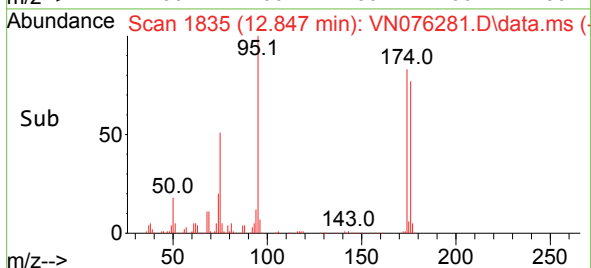
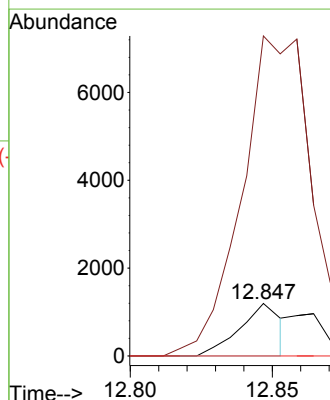
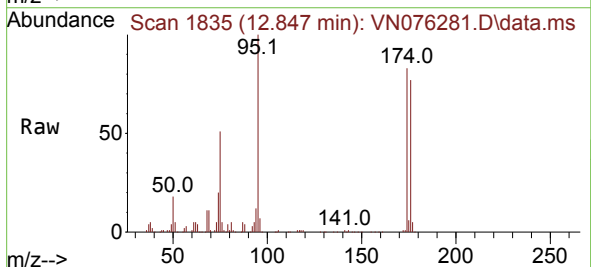
Instrument :
MSVOA_N
ClientSampleId :
TP-F

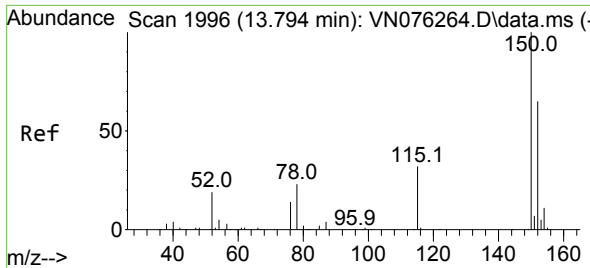
Tgt Ion:117 Resp: 496701
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.2
119 31.8 26.9 40.3



#71
Bromoform
Concen: 0.430 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076281.D
Acq: 17 Jan 2023 15:36

Tgt Ion:173 Resp: 1212
Ion Ratio Lower Upper
173 100
175 649.6 24.1 72.4#
254 0.0 0.0 0.0

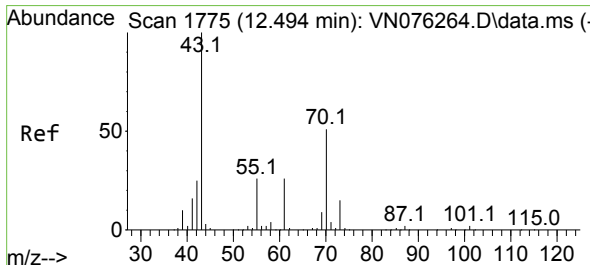
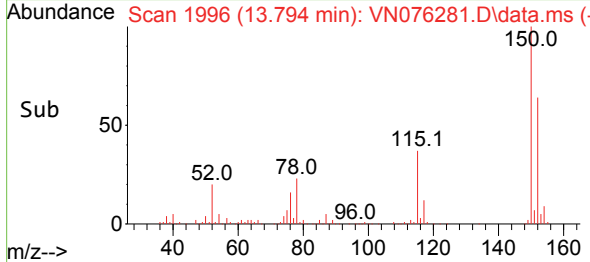
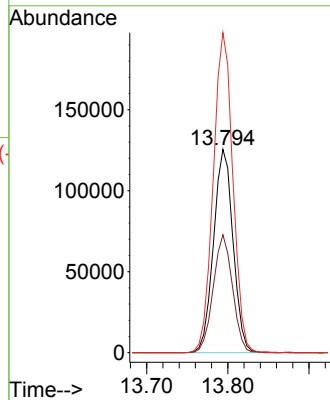
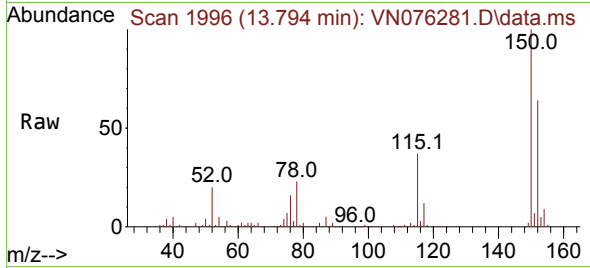




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN076281.D
 Acq: 17 Jan 2023 15:36

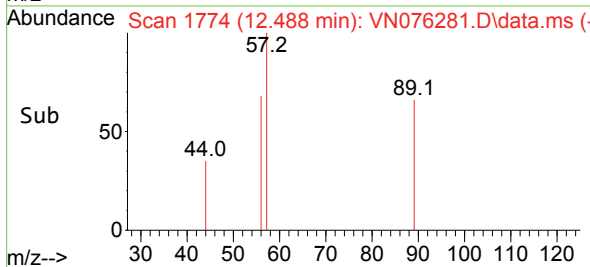
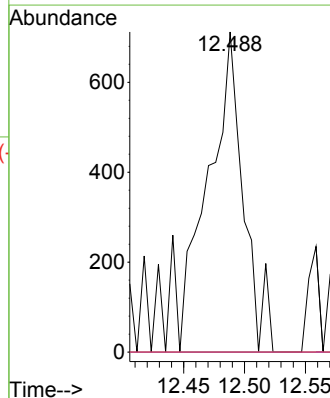
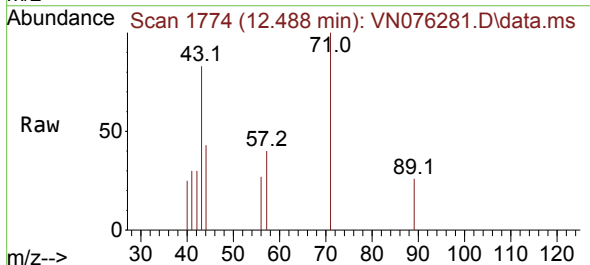
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-F

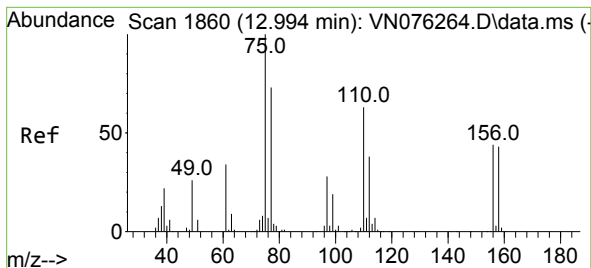
Tgt Ion:152 Resp: 209660
 Ion Ratio Lower Upper
 152 100
 115 57.2 29.6 88.9
 150 157.9 0.0 351.4



#74
 N-ethyl acetate
 Concen: 0.308 ug/l
 RT: 12.488 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: VN076281.D
 Acq: 17 Jan 2023 15:36

Tgt Ion: 43 Resp: 1435
 Ion Ratio Lower Upper
 43 100
 70 0.0 41.2 61.8#
 55 0.0 21.0 31.6#
 61 0.0 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 27.690 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

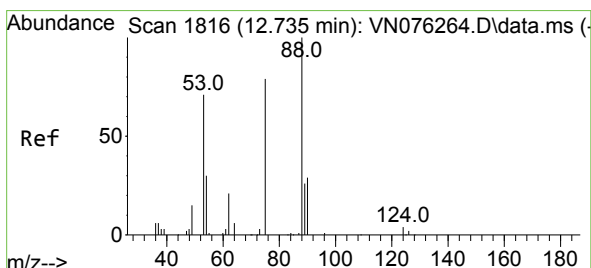
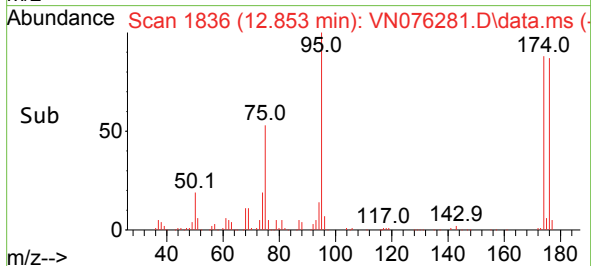
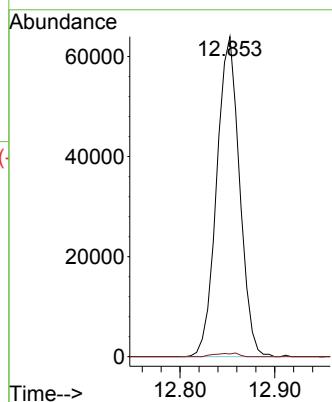
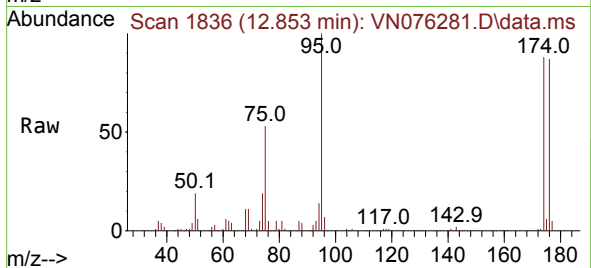
TP-F

Tgt Ion: 75 Resp: 107375

Ion Ratio Lower Upper

75 100

77 1.1 75.2 225.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.211 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

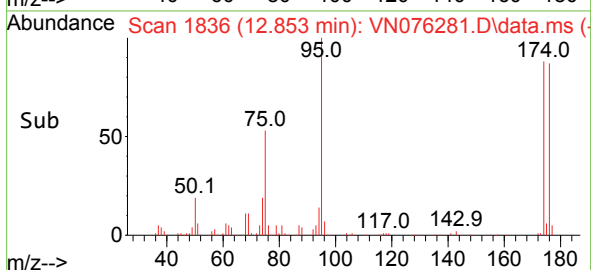
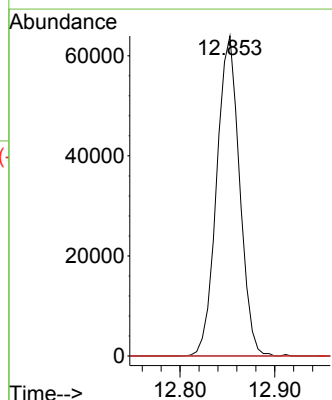
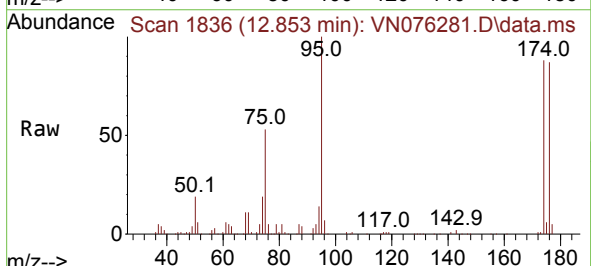
Tgt Ion: 75 Resp: 107375

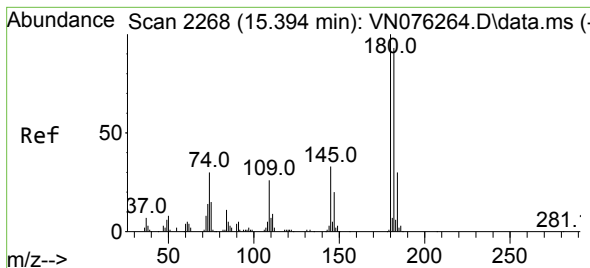
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#





#93

1,2,4-Trichlorobenzene

Concen: 1.384 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

Instrument :

MSVOA_N

ClientSampleId :

TP-F

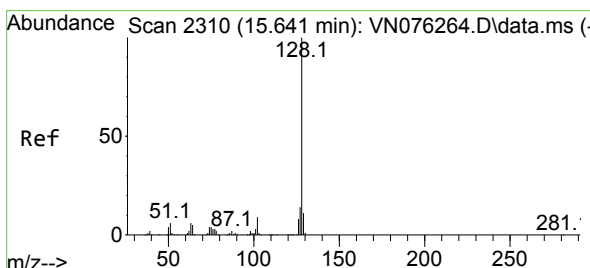
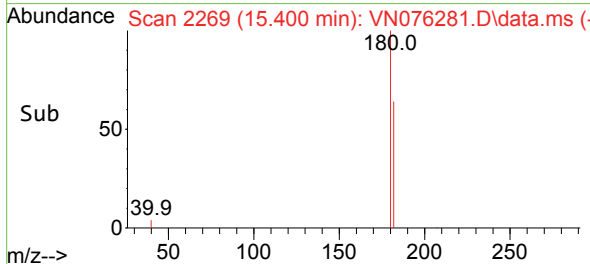
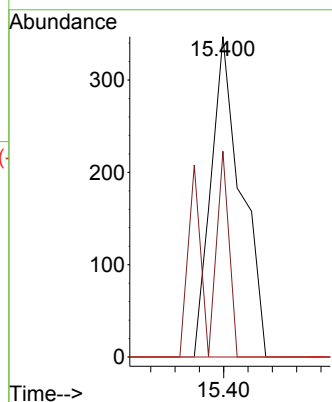
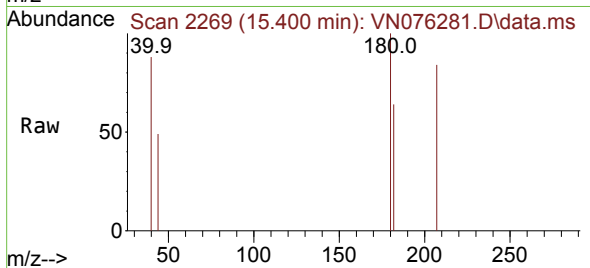
Tgt Ion:180 Resp: 299

Ion Ratio Lower Upper

180 100

182 50.8 47.0 141.2

145 0.0 15.2 45.5#



#95

Naphthalene

Concen: 1.941 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN076281.D

Acq: 17 Jan 2023 15:36

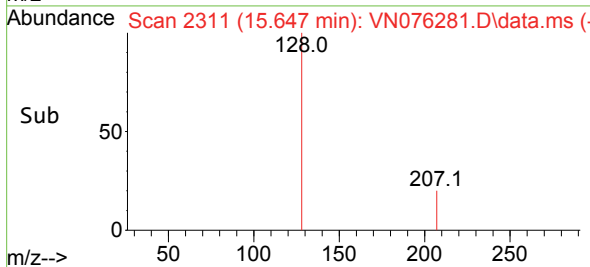
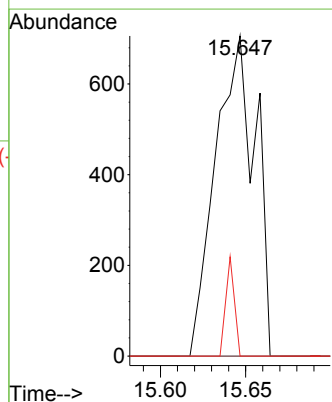
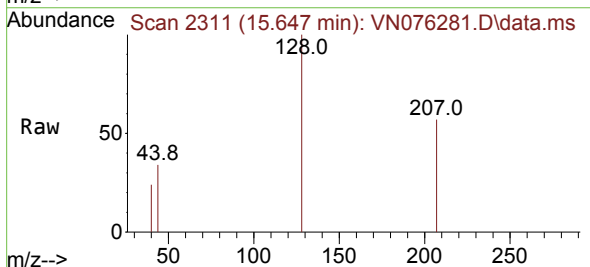
Tgt Ion:128 Resp: 1153

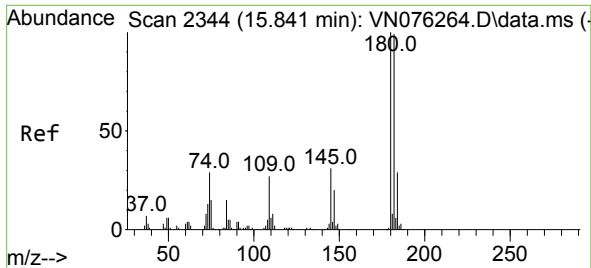
Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 6.7 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.169 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN076281.D
 Acq: 17 Jan 2023 15:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-F

Tgt Ion:	180	Resp:	55
Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.5#
145	0.0	15.9	47.6#

