

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022124\
 Data File : VN081113.D
 Acq On : 21 Feb 2024 12:24
 Operator : JC\MD
 Sample : P1528-01DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-20240215

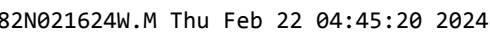
Quant Time: Feb 22 04:45:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

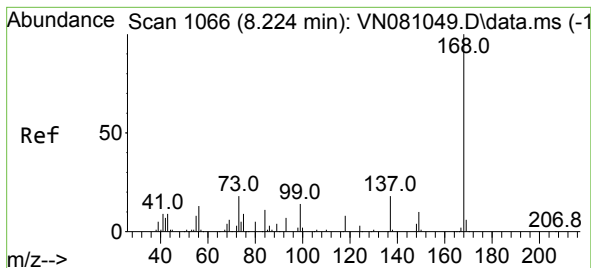
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	398255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	721068	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	613194	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	268069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	219550	44.976	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.960%		
35) Dibromofluoromethane	8.165	113	185972	45.610	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.220%		
50) Toluene-d8	10.565	98	621109	42.889	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	85.780%#		
62) 4-Bromofluorobenzene	12.847	95	230092	42.284	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	84.560%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1722	Below Cal	#	78
5) Bromomethane	2.971	94	1423	0.350	ug/l	90
6) Chloroethane	3.112	64	277	Below Cal	#	42
13) Acrolein	4.165	56	599	1.245	ug/l	# 75
16) Acetone	4.424	43	1961	1.021	ug/l	100
17) Carbon Disulfide	4.712	76	3979	0.317	ug/l	# 78
20) Methylene Chloride	5.265	84	1637	Below Cal	#	66
31) Cyclohexane	8.230	56	9969	1.183	ug/l	# 43
36) 1,1-Dichloropropene	8.224	75	35140	5.030	ug/l	# 50
38) Carbon Tetrachloride	8.224	117	43846	6.204	ug/l	# 16
43) Isopropyl Acetate	8.671	43	3183	0.289	ug/l	# 57
49) 1,4-Dioxane	9.706	88	60	Below Cal	#	1
60) Dibromochloromethane	11.112	129	1167	0.223	ug/l	# 10
76) 1,2,3-Trichloropropane	12.847	75	124877	20.503	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	124877	52.773	ug/l	# 14
84) 1,2,4-Trimethylbenzene	13.335	105	4335	0.229	ug/l	76
90) Hexachloroethane	14.335	117	823	0.262	ug/l	# 21
93) 1,2,4-Trichlorobenzene	15.382	180	1377	0.259	ug/l	97
94) Hexachlorobutadiene	15.494	225	524	0.264	ug/l	# 28
95) Naphthalene	15.635	128	4782	0.245	ug/l	# 90
96) 1,2,3-Trichlorobenzene	15.841	180	1918	0.364	ug/l	90

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

Quant Time: Feb 22 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

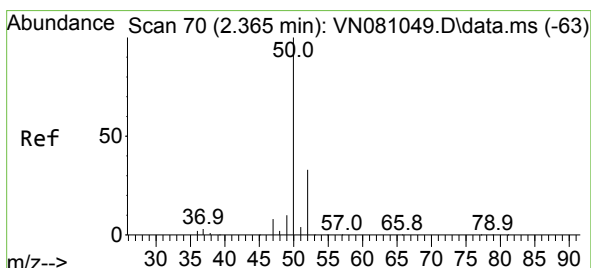
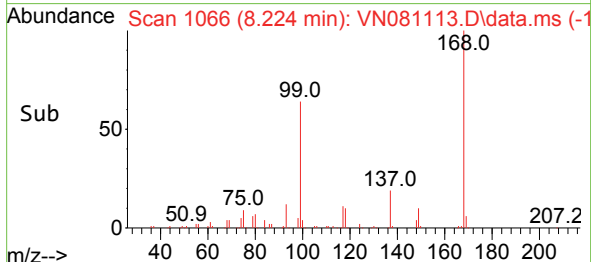
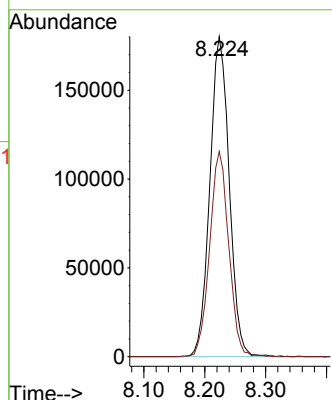
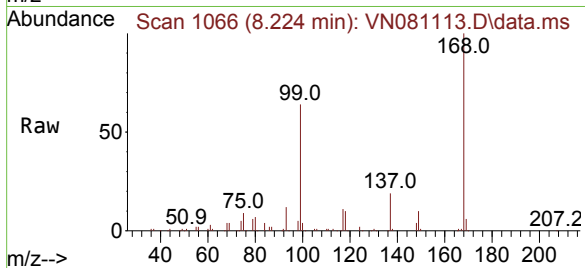
IDW-20240215

Tgt Ion:168 Resp: 398255

Ion Ratio Lower Upper

168 100

99 64.0 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. -0.006 min

Lab File: VN081113.D

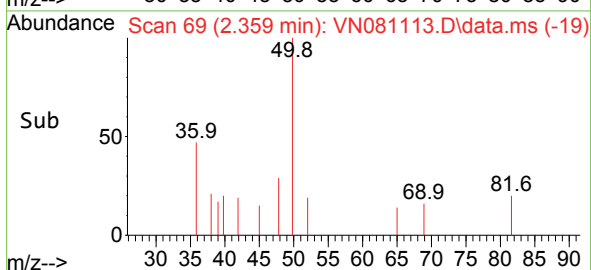
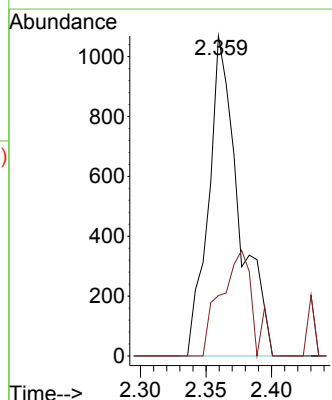
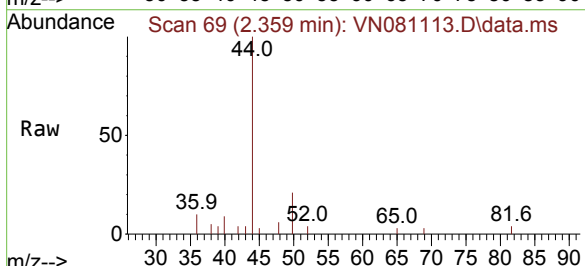
Acq: 21 Feb 2024 12:24

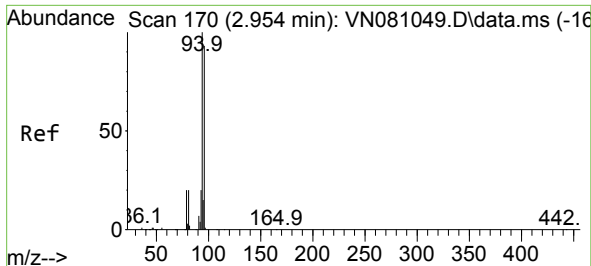
Tgt Ion: 50 Resp: 1722

Ion Ratio Lower Upper

50 100

52 18.9 25.0 37.4#

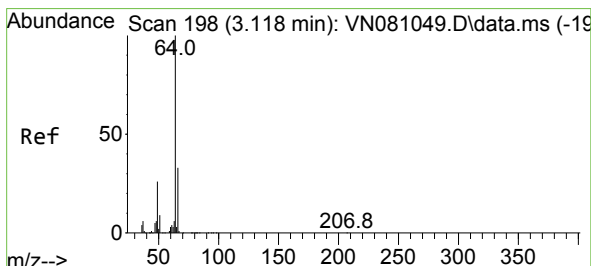
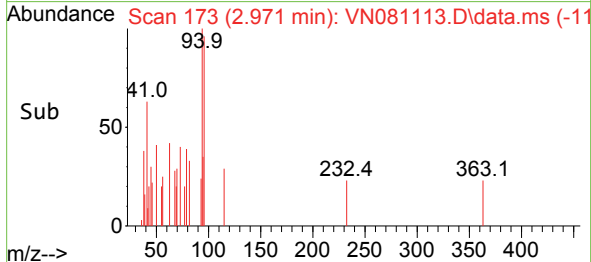
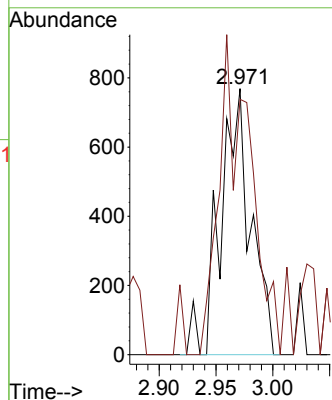
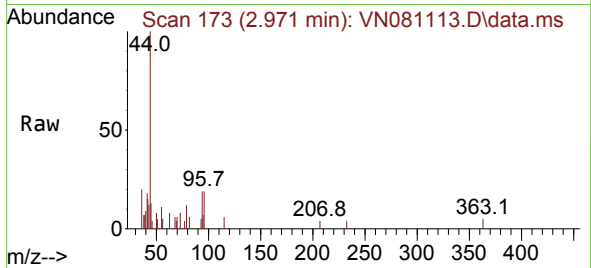




#5
Bromomethane
Concen: 0.350 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

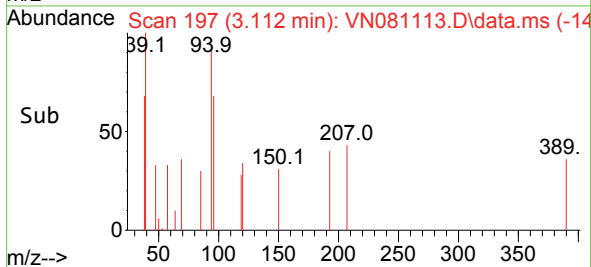
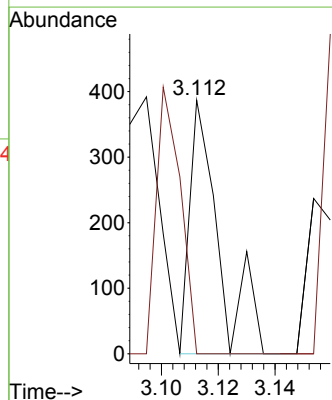
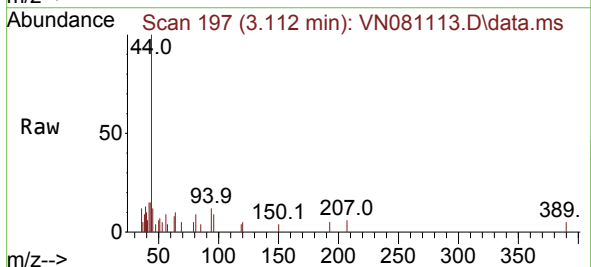
Instrument :
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IDW-20240215

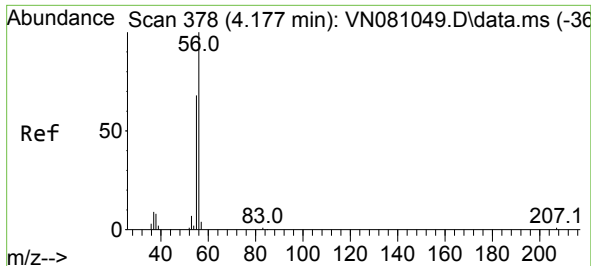
Tgt Ion: 94 Resp: 1423
Ion Ratio Lower Upper
94 100
96 96.0 69.2 103.8



#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

Tgt Ion: 64 Resp: 277
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

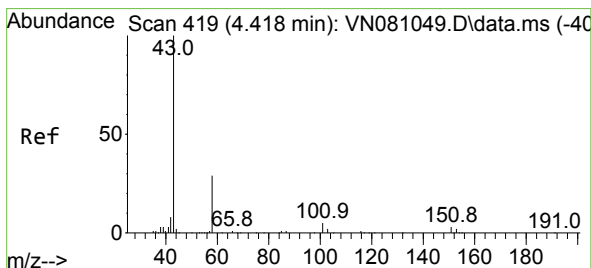
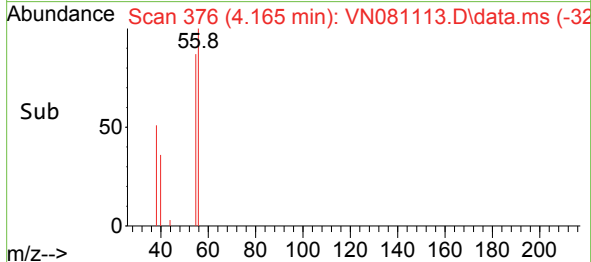
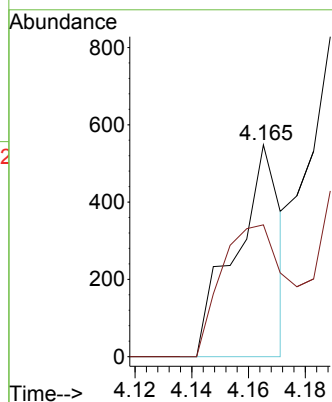
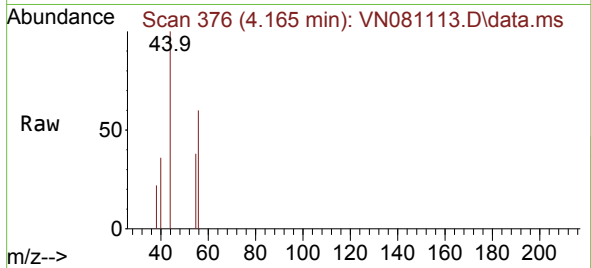




#13
Acrolein
Concen: 1.245 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

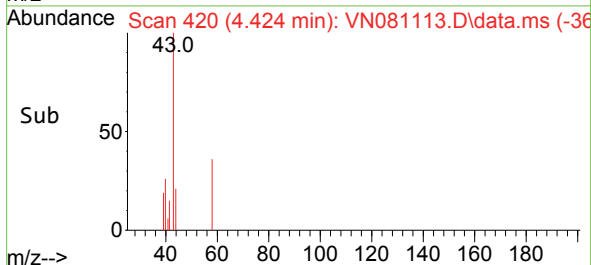
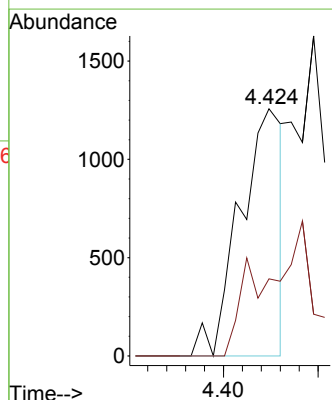
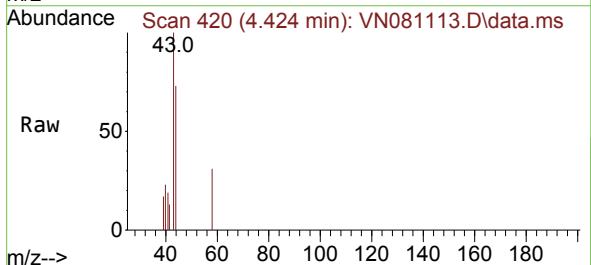
Instrument :
MSVOA_N
ClientSampleId :
IDW-20240215

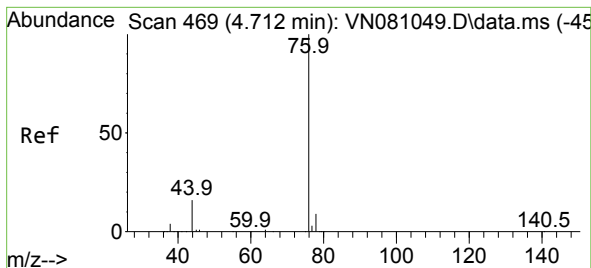
Tgt Ion: 56 Resp: 599
Ion Ratio Lower Upper
56 100
55 89.6 55.3 82.9#



#16
Acetone
Concen: 1.021 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
58 31.2 24.8 37.2





#17

Carbon Disulfide

Concen: 0.317 ug/l

RT: 4.712 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

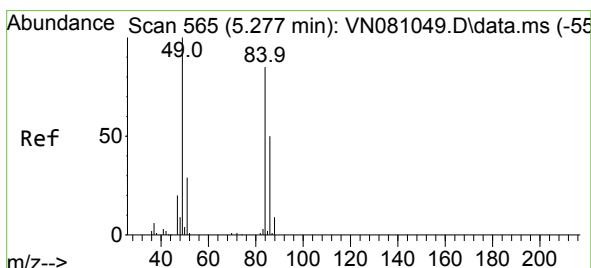
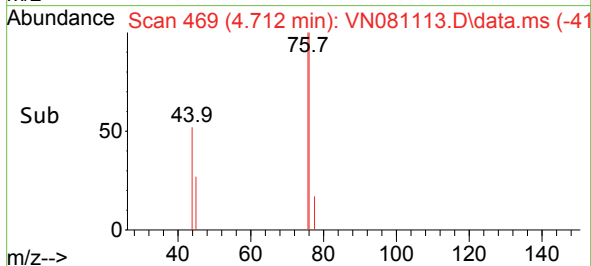
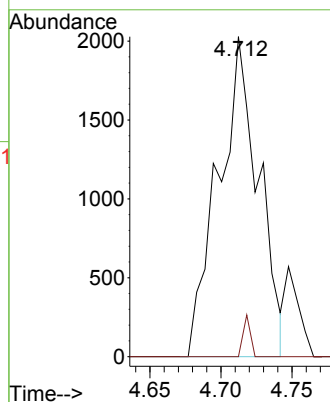
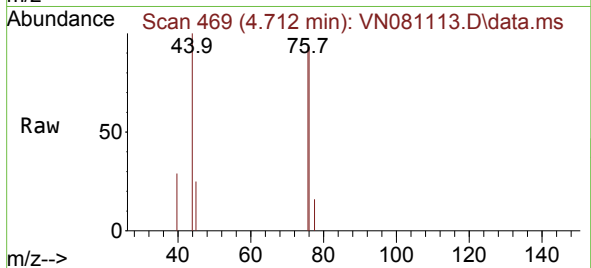
IDW-20240215

Tgt Ion: 76 Resp: 3979

Ion Ratio Lower Upper

76 100

78 0.0 6.3 9.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Tgt Ion: 84 Resp: 1637

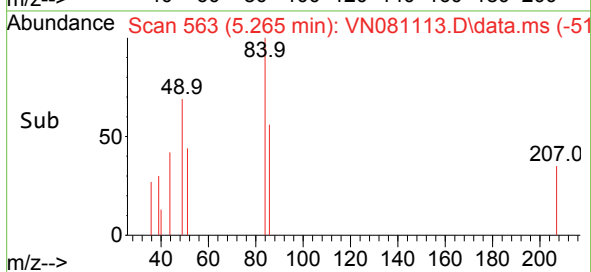
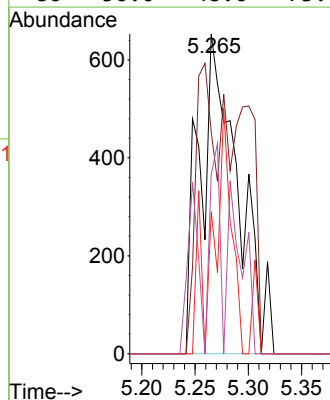
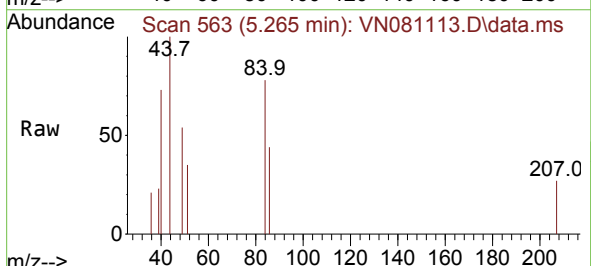
Ion Ratio Lower Upper

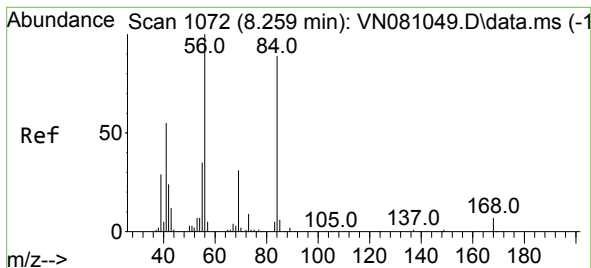
84 100

49 69.2 108.1 162.1#

51 44.4 32.9 49.3

86 56.0 48.6 73.0





#31

Cyclohexane

Concen: 1.183 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

IDW-20240215

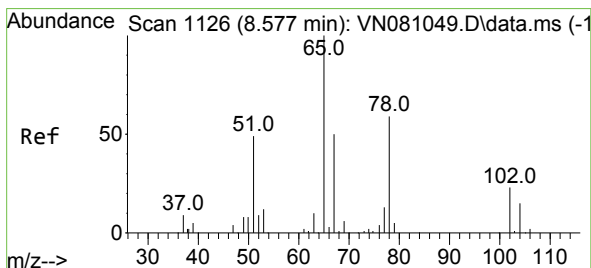
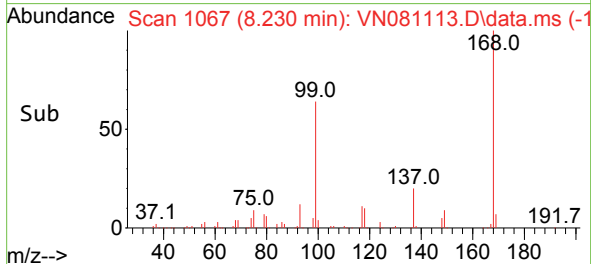
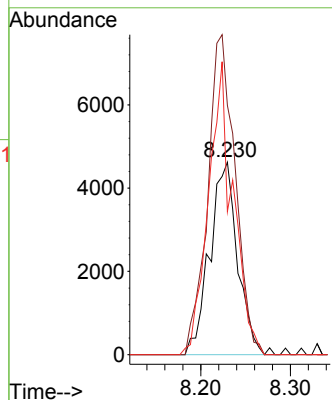
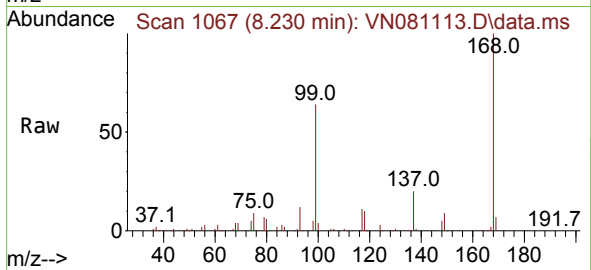
Tgt Ion: 56 Resp: 9969

Ion Ratio Lower Upper

56 100

69 129.5 20.1 30.1#

84 74.3 56.9 85.3



#33

1,2-Dichloroethane-d4

Concen: 44.976 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081113.D

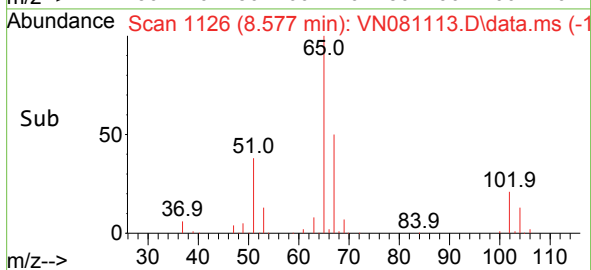
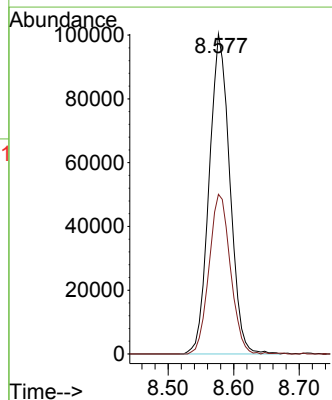
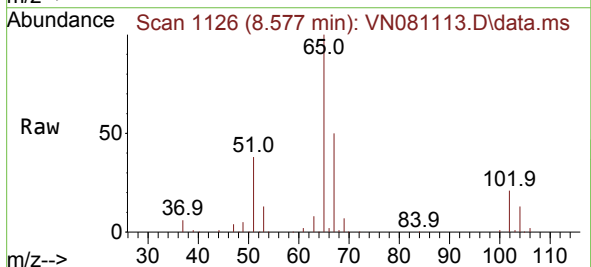
Acq: 21 Feb 2024 12:24

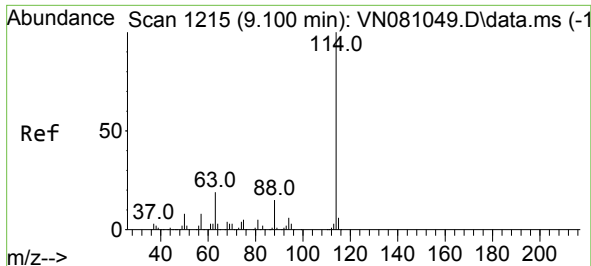
Tgt Ion: 65 Resp: 219550

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

IDW-20240215

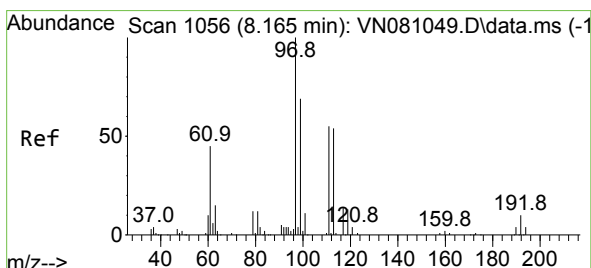
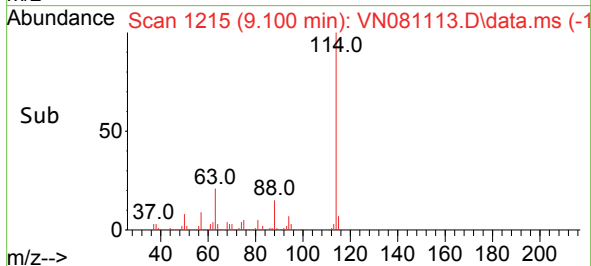
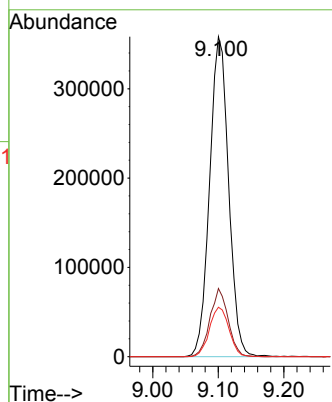
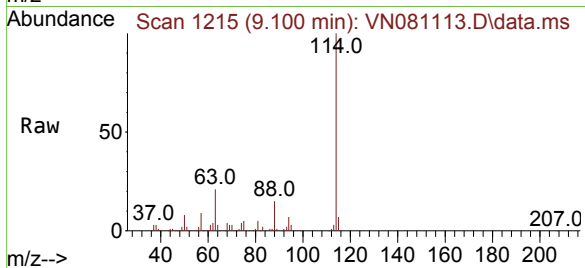
Tgt Ion:114 Resp: 721068

Ion Ratio Lower Upper

114 100

63 21.3 0.0 48.0

88 15.4 0.0 34.8



#35

Dibromofluoromethane

Concen: 45.610 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

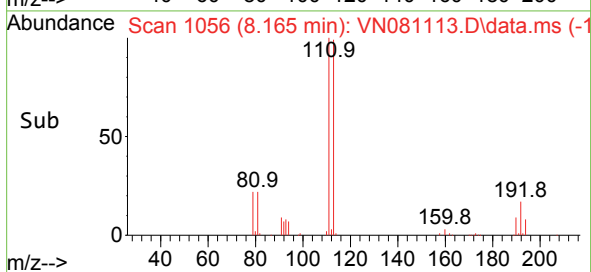
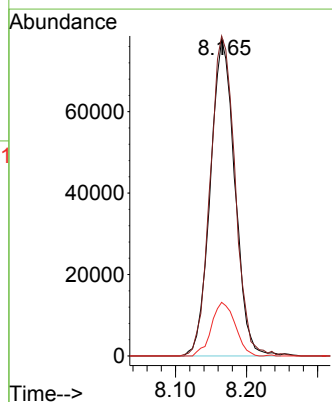
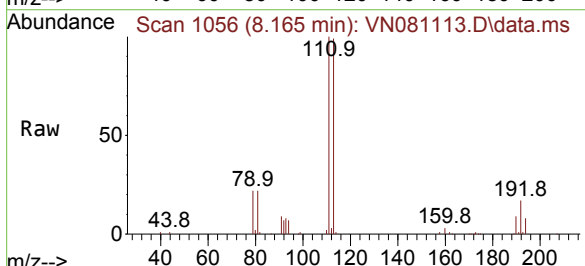
Tgt Ion:113 Resp: 185972

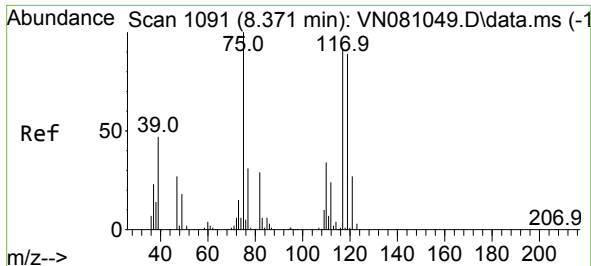
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

192 16.5 12.5 18.7





#36

1,1-Dichloropropene

Concen: 5.030 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

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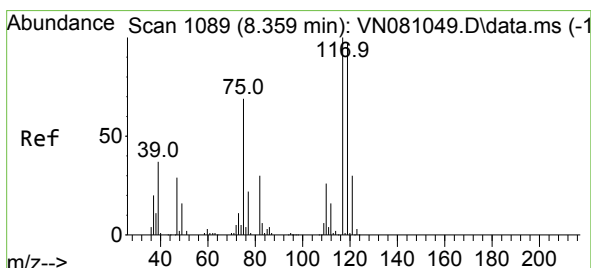
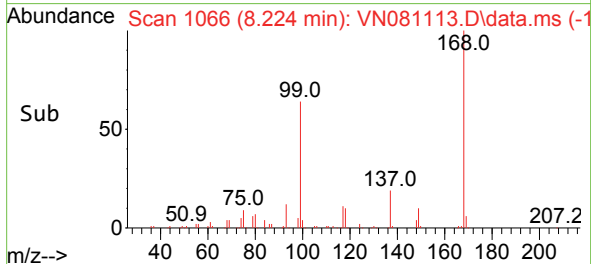
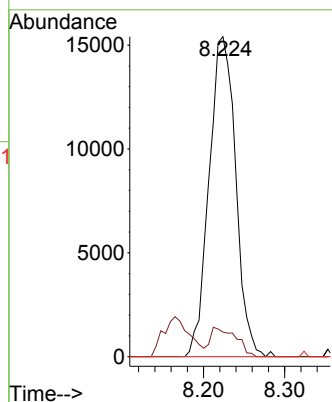
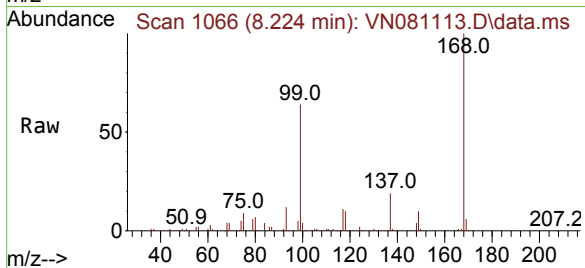
Tgt Ion: 75 Resp: 35140

Ion Ratio Lower Upper

75 100

110 8.8 16.0 48.0#

77 0.0 25.8 38.6#



#38

Carbon Tetrachloride

Concen: 6.204 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

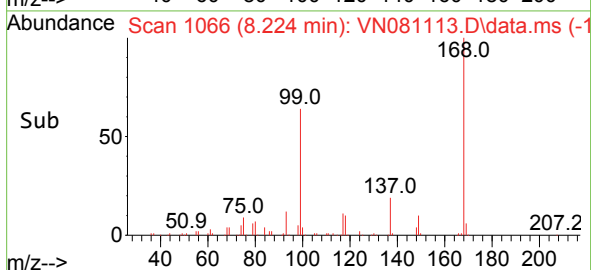
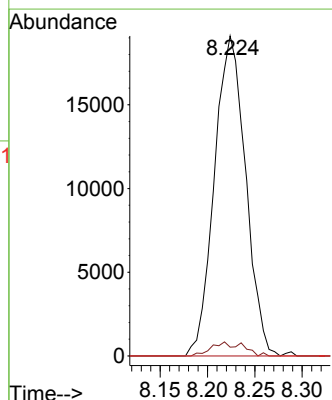
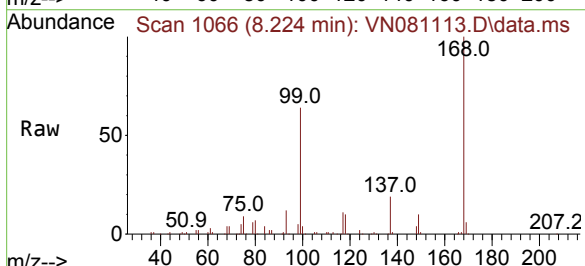
Tgt Ion: 117 Resp: 43846

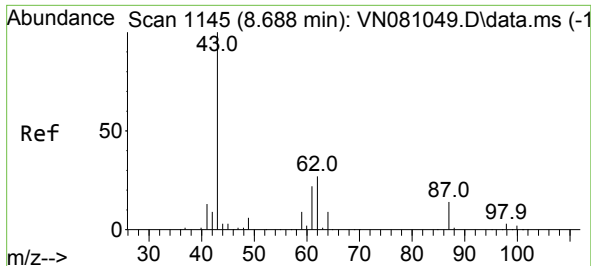
Ion Ratio Lower Upper

117 100

119 2.7 73.4 110.2#

121 0.0 24.4 36.6#

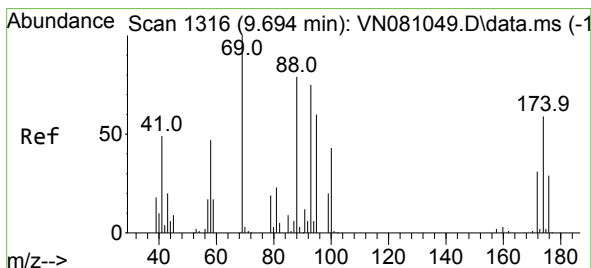
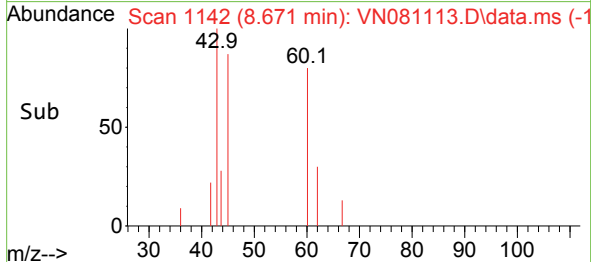
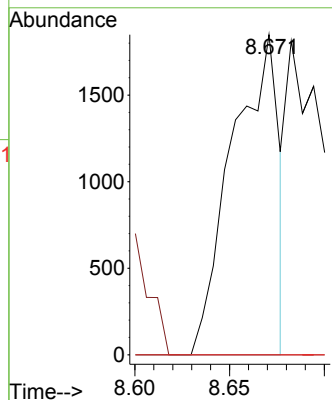
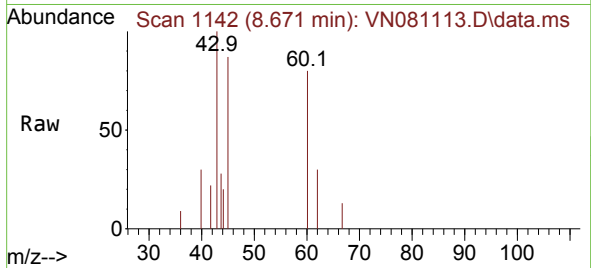




#43
Isopropyl Acetate
Concen: 0.289 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.018 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

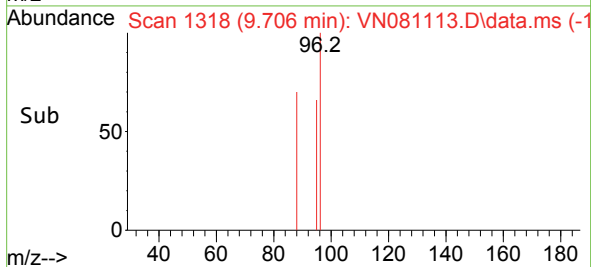
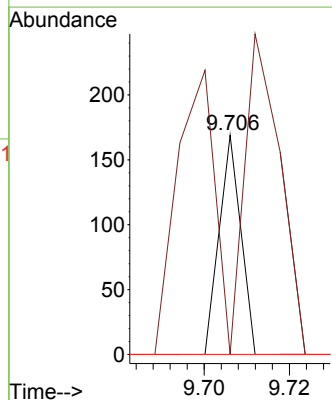
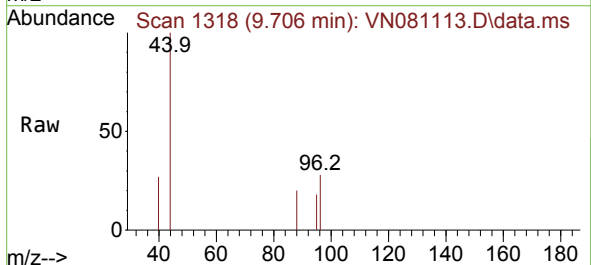
Instrument :
MSVOA_N
ClientSampleId :
IDW-20240215

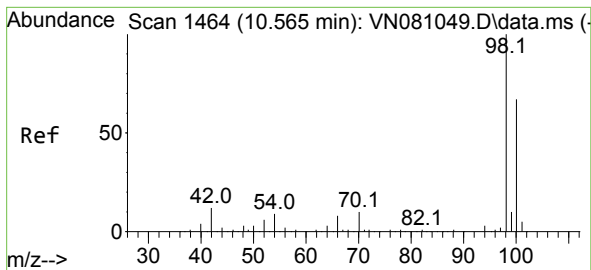
Tgt Ion: 43 Resp: 3183
Ion Ratio Lower Upper
43 100
61 0.0 19.9 29.9#
87 0.0 9.0 13.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 236.7 30.1 45.1#
58 0.0 63.9 95.9#

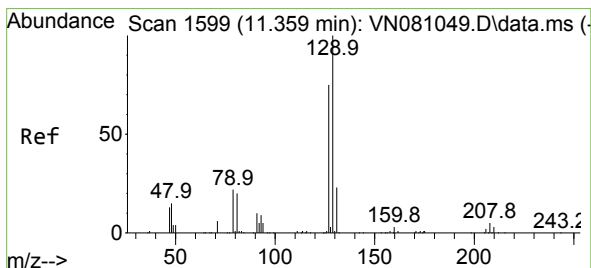
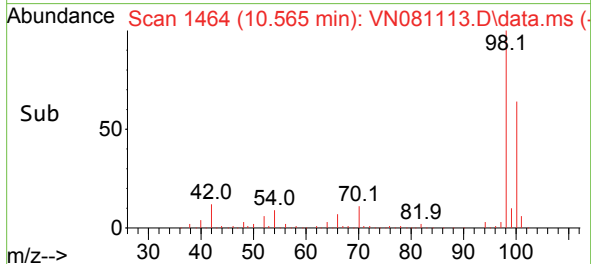
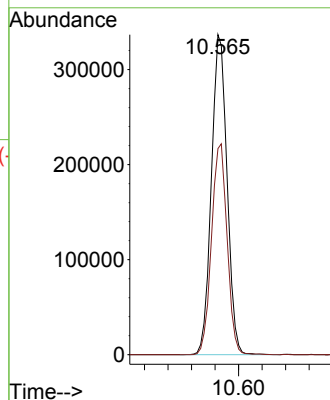
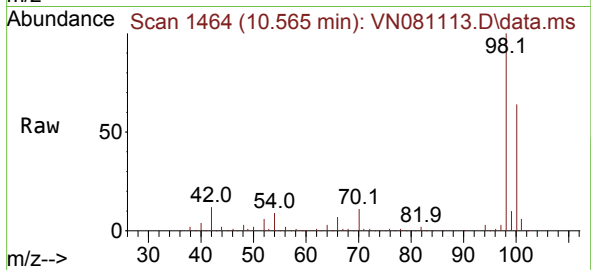




#50
Toluene-d8
Concen: 42.889 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

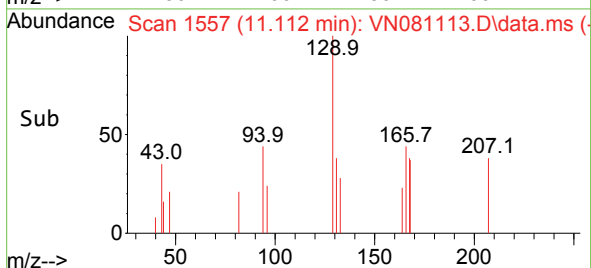
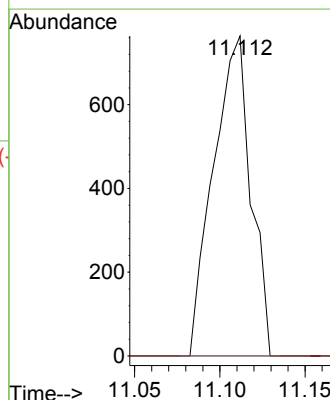
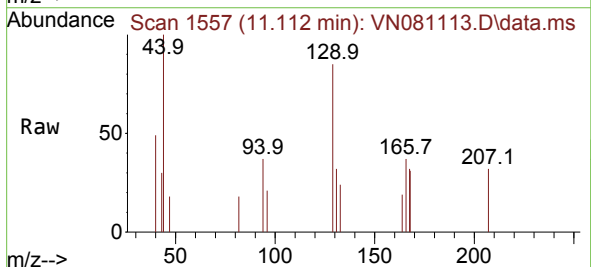
Instrument :
MSVOA_N
ClientSampleId :
IDW-20240215

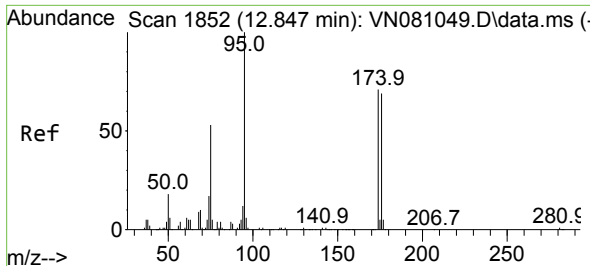
Tgt Ion: 98 Resp: 621109
Ion Ratio Lower Upper
98 100
100 65.8 51.4 77.0



#60
Dibromochloromethane
Concen: 0.223 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.247 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

Tgt Ion: 129 Resp: 1167
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.2#

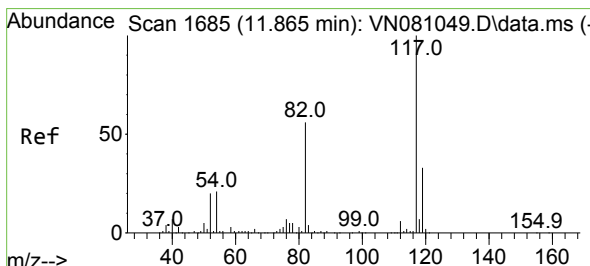
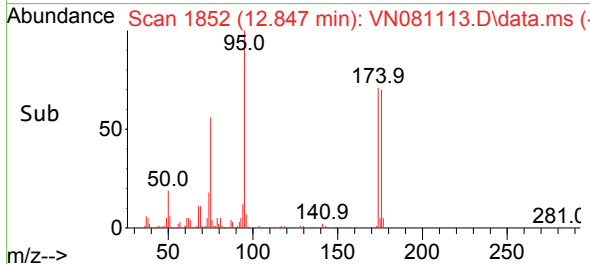
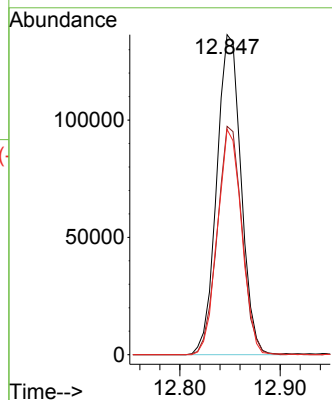
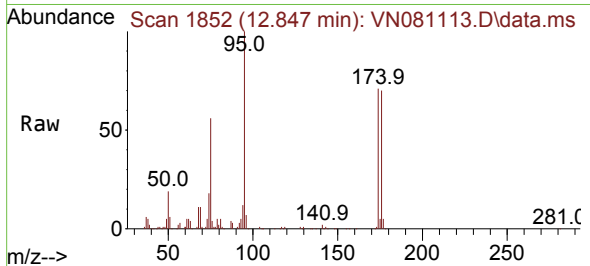




#62
4-Bromofluorobenzene
Concen: 42.284 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

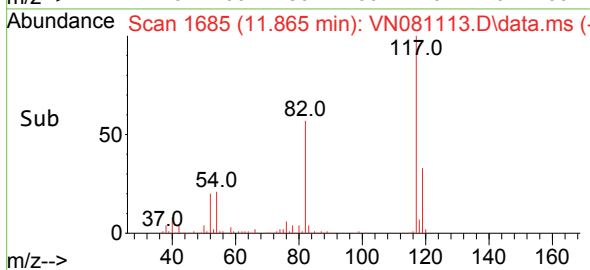
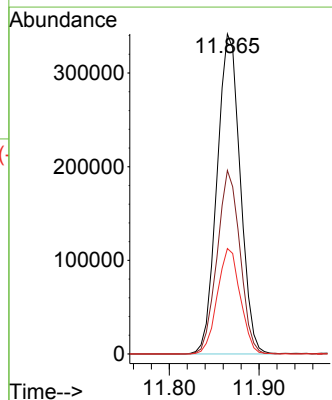
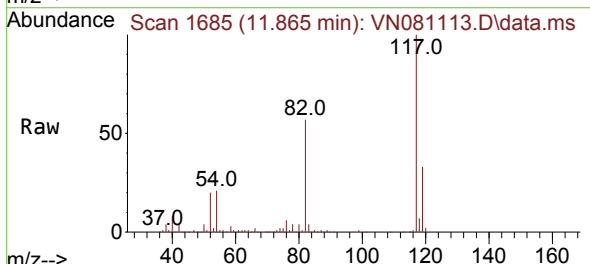
Instrument :
MSVOA_N
ClientSampleId :
IDW-20240215

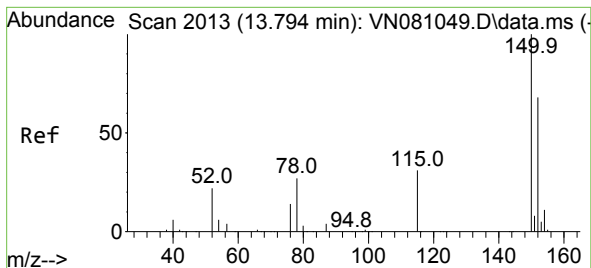
Tgt Ion: 95 Resp: 230092
Ion Ratio Lower Upper
95 100
174 72.2 0.0 120.4
176 70.1 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN081113.D
Acq: 21 Feb 2024 12:24

Tgt Ion: 117 Resp: 613194
Ion Ratio Lower Upper
117 100
82 57.3 52.7 79.1
119 33.0 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

IDW-20240215

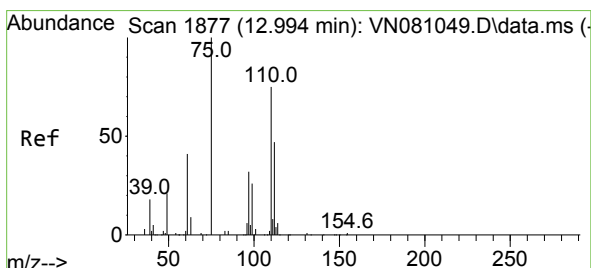
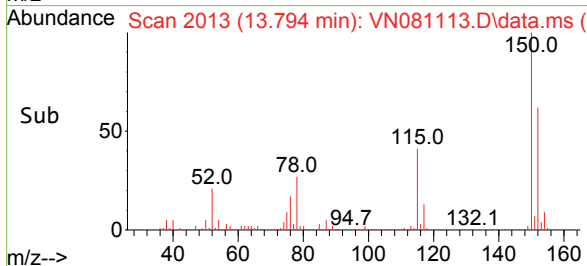
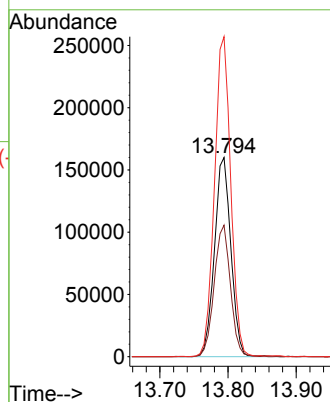
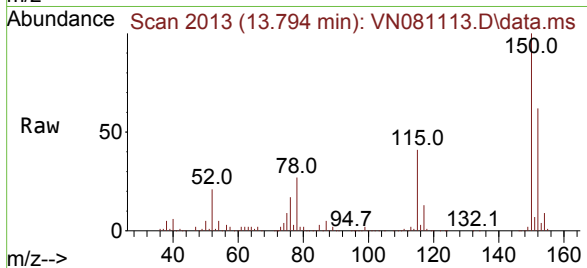
Tgt Ion:152 Resp: 268069

Ion Ratio Lower Upper

152 100

115 65.4 32.3 96.8

150 158.9 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 20.503 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081113.D

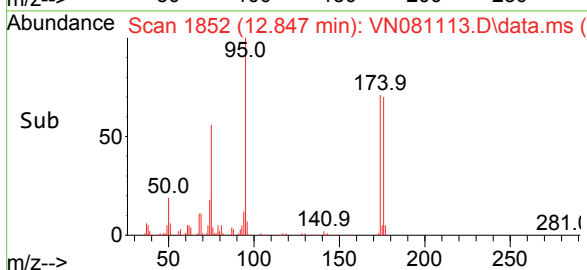
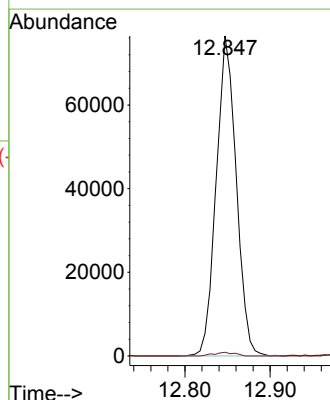
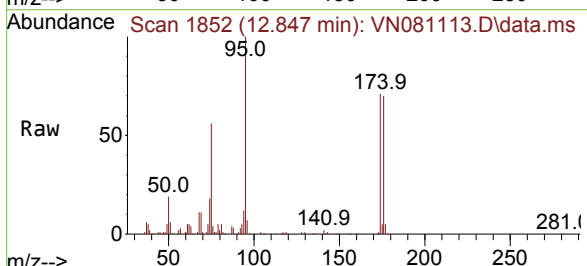
Acq: 21 Feb 2024 12:24

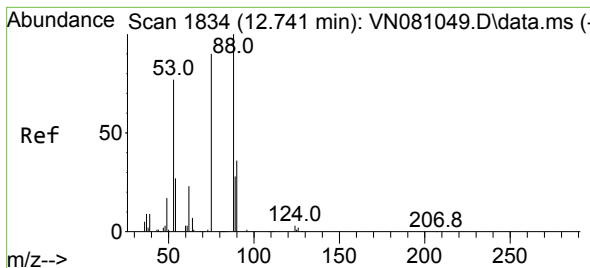
Tgt Ion: 75 Resp: 124877

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#

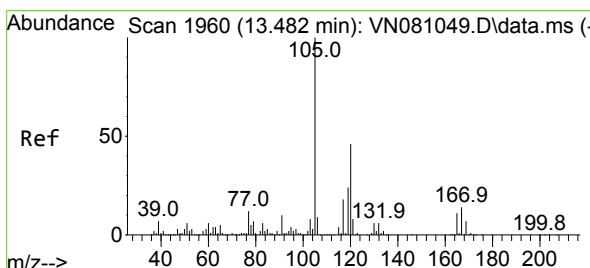
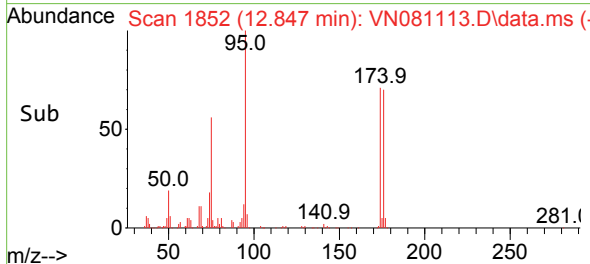
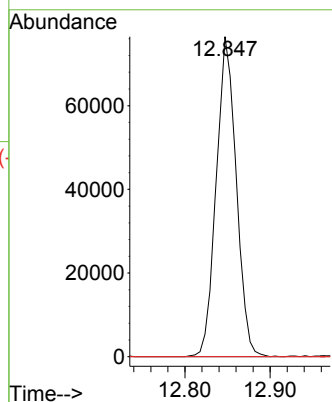
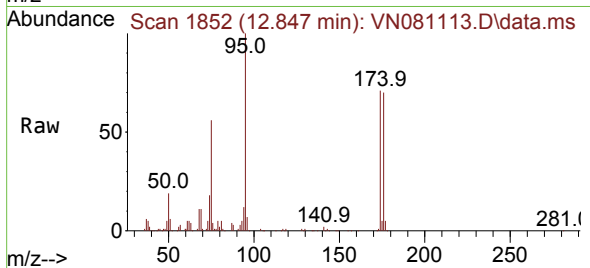




#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.773 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081113.D
 Acq: 21 Feb 2024 12:24

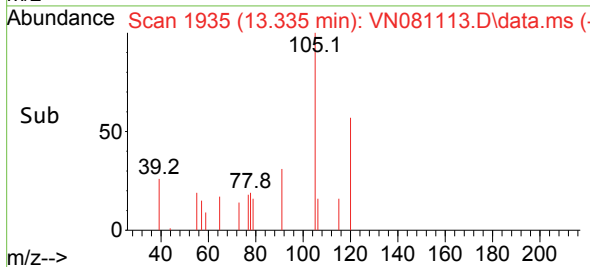
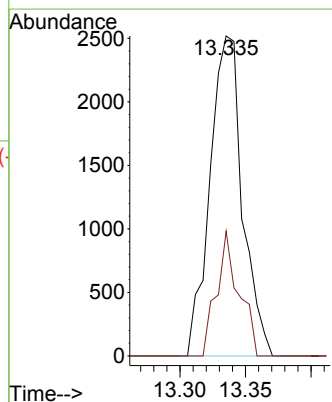
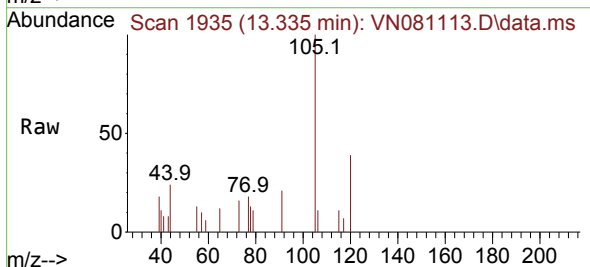
Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-20240215

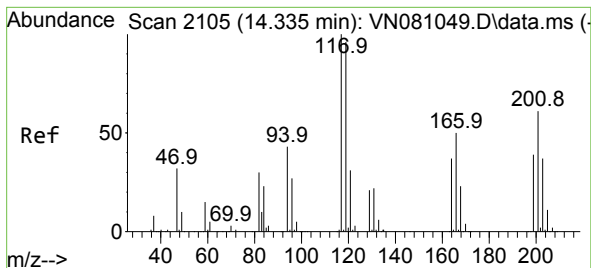
Tgt Ion: 75 Resp: 124877
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.0 33.4 50.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.229 ug/l
 RT: 13.335 min Scan# 1935
 Delta R.T. -0.147 min
 Lab File: VN081113.D
 Acq: 21 Feb 2024 12:24

Tgt Ion: 105 Resp: 4335
 Ion Ratio Lower Upper
 105 100
 120 26.8 20.9 62.7





#90

Hexachloroethane

Concen: 0.262 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

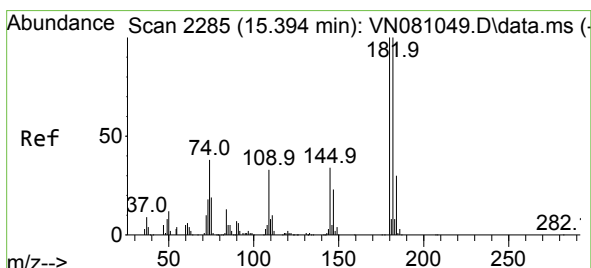
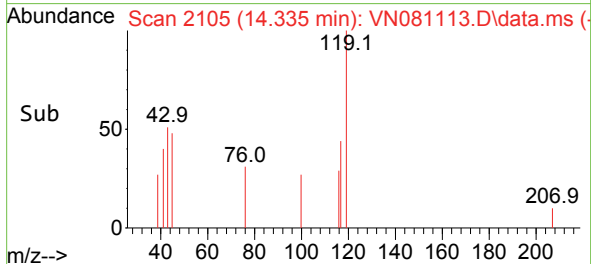
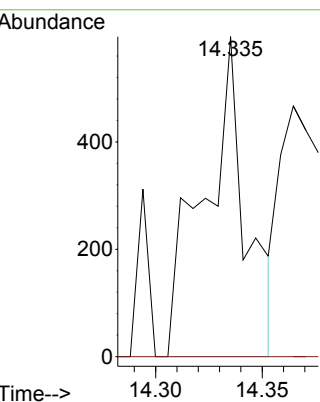
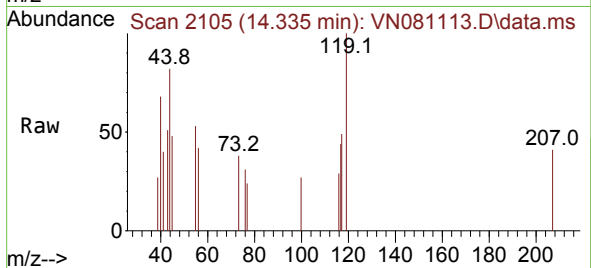
IDW-20240215

Tgt Ion:117 Resp: 823

Ion Ratio Lower Upper

117 100

201 0.0 30.0 90.0#



#93

1,2,4-Trichlorobenzene

Concen: 0.259 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. -0.012 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

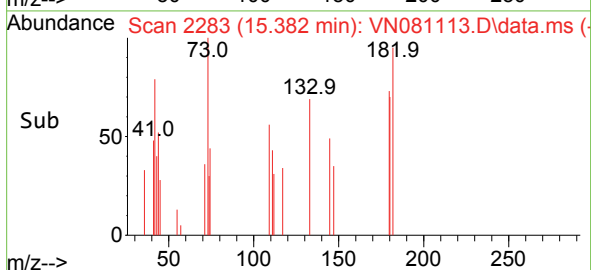
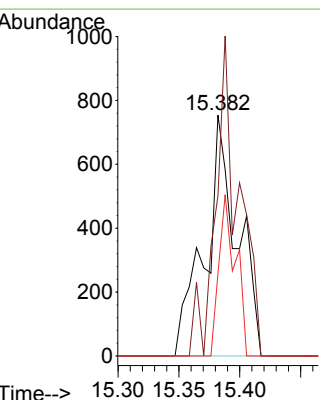
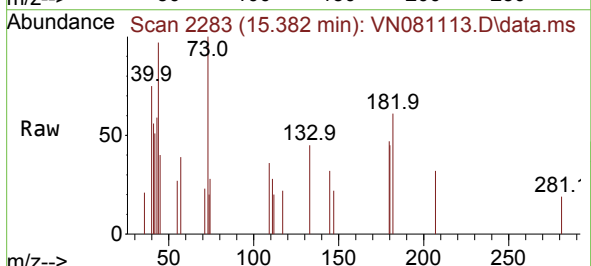
Tgt Ion:180 Resp: 1377

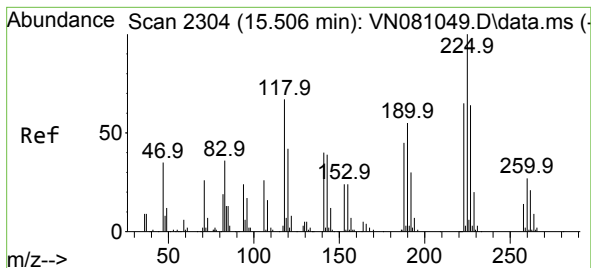
Ion Ratio Lower Upper

180 100

182 96.1 46.6 139.7

145 34.9 16.8 50.3





#94

Hexachlorobutadiene

Concen: 0.264 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.012 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

Instrument :

MSVOA_N

ClientSampleId :

IDW-20240215

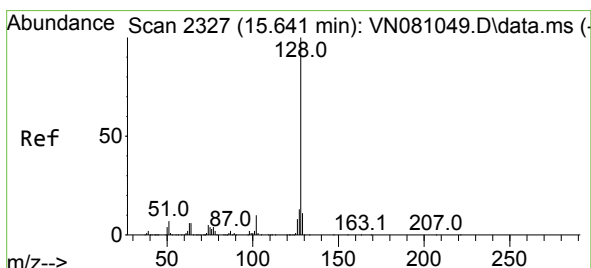
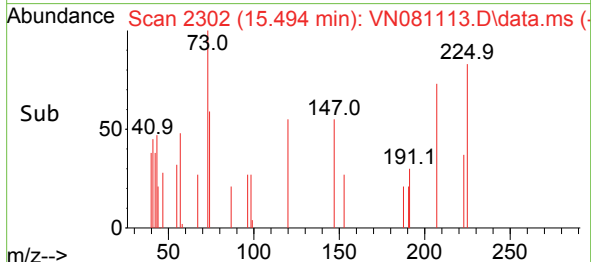
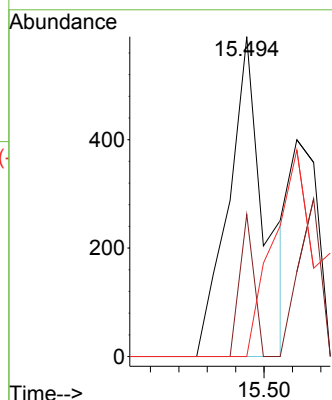
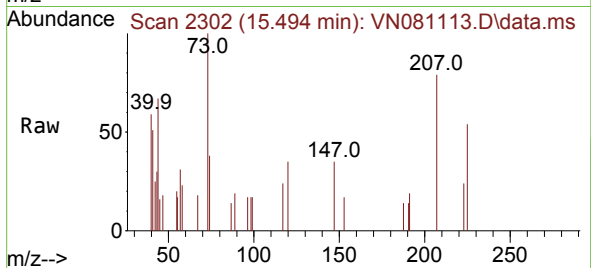
Tgt Ion:225 Resp: 524

Ion Ratio Lower Upper

225 100

223 17.6 33.3 99.8#

227 0.0 33.1 99.2#



#95

Naphthalene

Concen: 0.245 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN081113.D

Acq: 21 Feb 2024 12:24

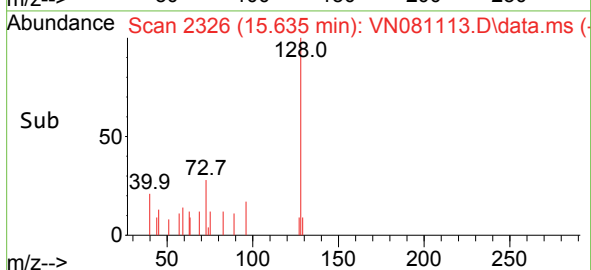
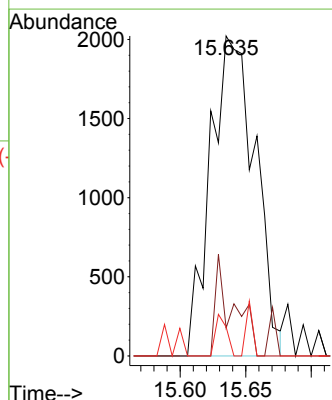
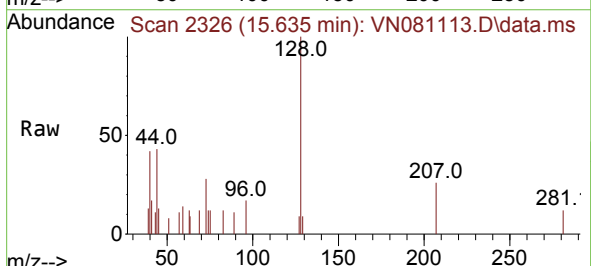
Tgt Ion:128 Resp: 4782

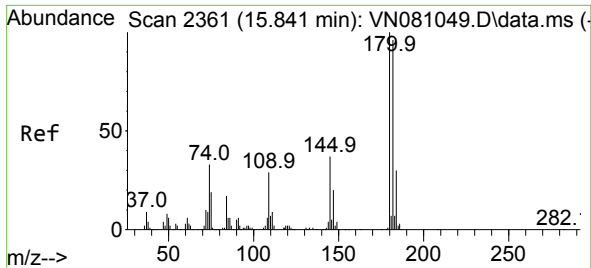
Ion Ratio Lower Upper

128 100

127 12.7 10.0 15.0

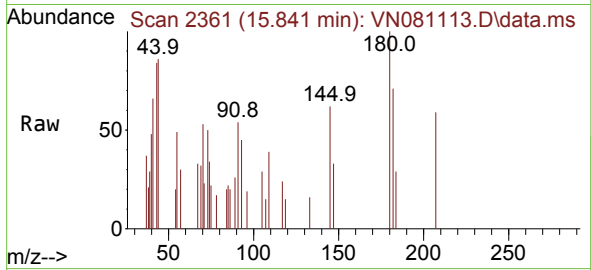
129 3.3 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.364 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN081113.D
 Acq: 21 Feb 2024 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-20240215



Tgt Ion:	180	Resp:	1918
Ion Ratio	Lower	Upper	
180	100		
182	80.8	46.5	139.3
145	34.5	17.8	53.4

