

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031524\
 Data File : VN081432.D
 Acq On : 15 Mar 2024 18:05
 Operator : JC\MD
 Sample : P1769-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Mar 15 23:37:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030524W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 06 03:12:57 2024
 Response via : Initial Calibration

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

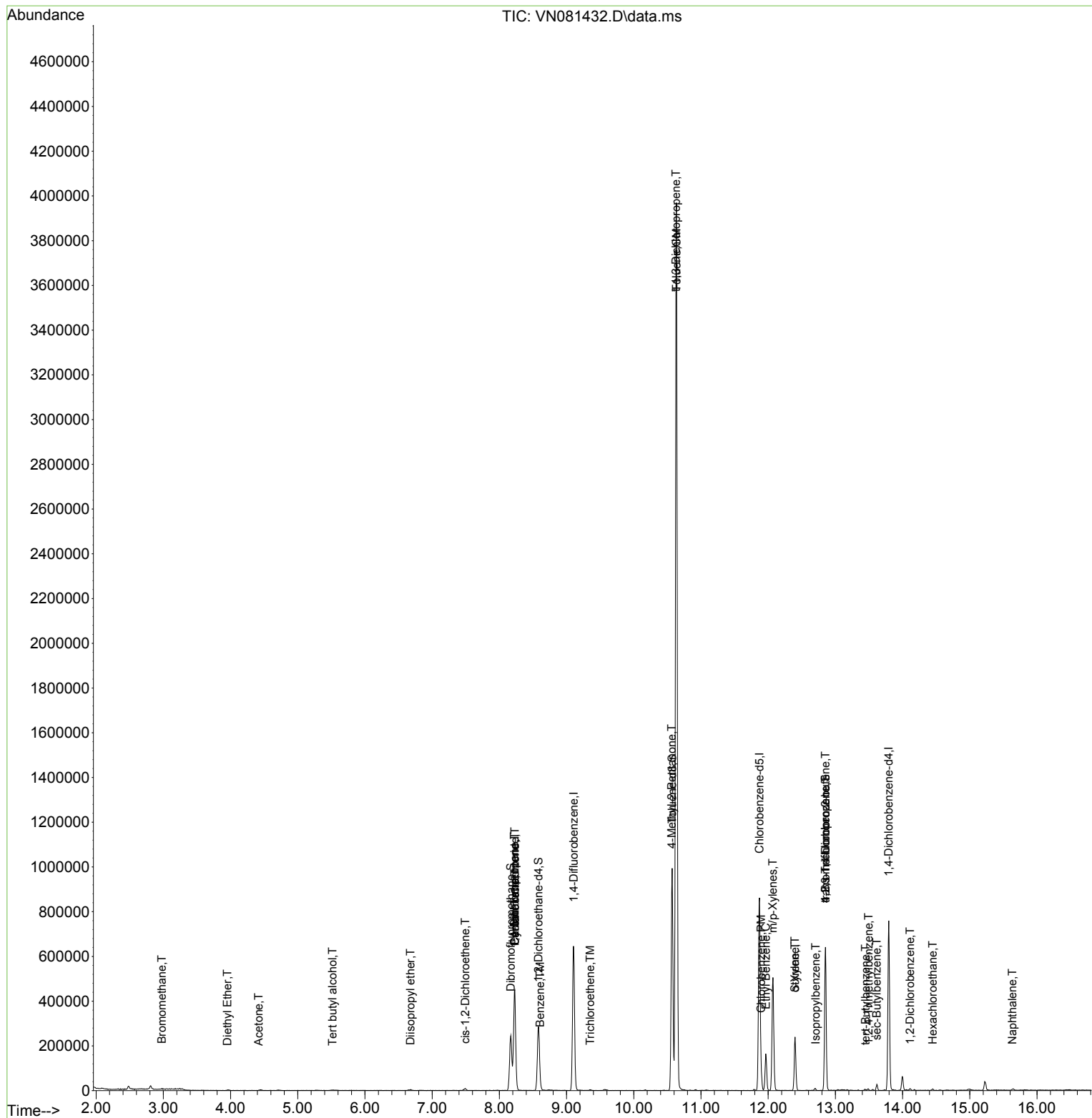
Internal Standards						
1) Pentafluorobenzene	8.230	168	298343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	549807	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	481564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	186386	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	232770	53.961	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 107.920%		
35) Dibromofluoromethane	8.171	113	176963	52.535	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 105.060%		
50) Toluene-d8	10.571	98	661368	52.522	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 105.040%		
62) 4-Bromofluorobenzene	12.853	95	214758	48.254	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery	= 96.500%		
Target Compounds						Qvalue
5) Bromomethane	2.977	94	928	0.312	ug/l #	68
8) Diethyl Ether	3.953	74	717	0.309	ug/l #	1
11) Tert butyl alcohol	5.518	59	3064	4.062	ug/l #	94
16) Acetone	4.418	43	875	0.573	ug/l #	87
20) Methylene Chloride	5.283	84	335	Below Cal	#	32
22) Diisopropyl ether	6.677	45	4060	0.354	ug/l #	82
27) cis-1,2-Dichloroethene	7.494	96	4916	1.106	ug/l	76
31) Cyclohexane	8.230	56	9603	1.470	ug/l #	10
36) 1,1-Dichloropropene	8.224	75	29133	5.361	ug/l #	49
38) Carbon Tetrachloride	8.230	117	33654	6.153	ug/l #	19
40) Benzene	8.606	78	8468	0.522	ug/l #	76
44) Trichloroethene	9.353	130	1180	0.288	ug/l	61
51) 4-Methyl-2-Pentanone	10.565	43	3147	0.583	ug/l #	1
52) Toluene	10.635	92	1699949	173.486	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	22343	3.703	ug/l #	1
65) Chlorobenzene	11.894	112	35147	3.464	ug/l	92
67) Ethyl Benzene	11.965	91	112498	6.154	ug/l	94
68) m/p-Xylenes	12.071	106	153958	22.380	ug/l	99
69) o-Xylene	12.400	106	62655	9.398	ug/l	99
70) Styrene	12.400	104	5406	0.512	ug/l #	1
73) Isopropylbenzene	12.706	105	6826	0.454	ug/l	96
76) 1,2,3-Trichloropropane	12.853	75	120617	27.398	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	120617	76.463	ug/l #	14
83) tert-Butylbenzene	13.447	119	2739	0.257	ug/l	92
84) 1,2,4-Trimethylbenzene	13.494	105	3215	0.255	ug/l	93
85) sec-Butylbenzene	13.618	105	16004	1.037	ug/l	94
90) Hexachloroethane	14.447	117	3383	1.561	ug/l #	21
91) 1,2-Dichlorobenzene	14.112	146	2532	0.392	ug/l	87
95) Naphthalene	15.635	128	6510	0.529	ug/l #	88

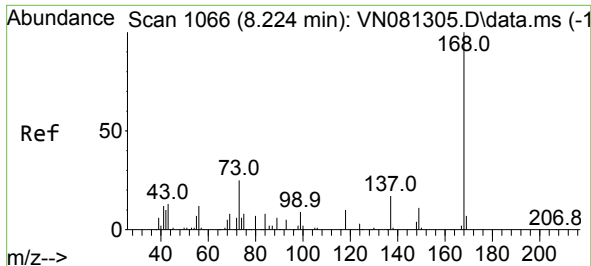
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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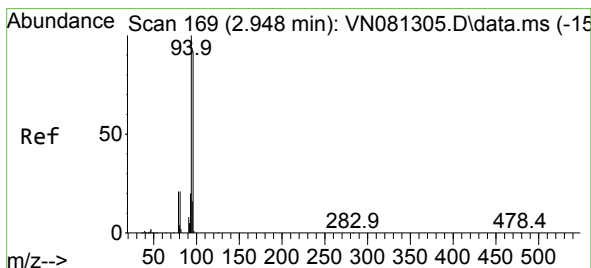
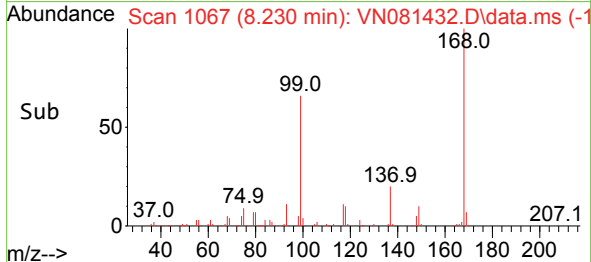
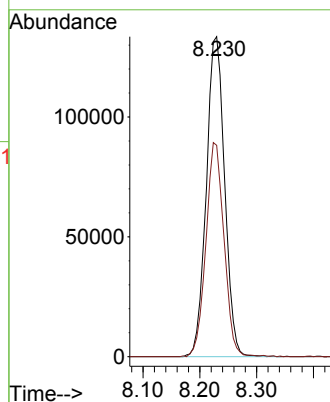
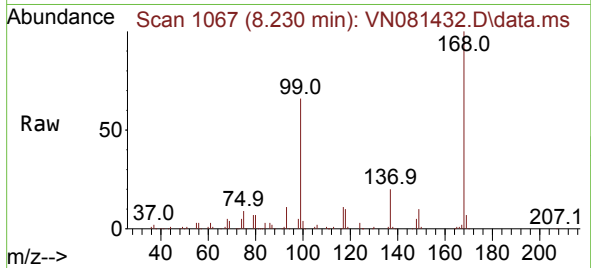




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

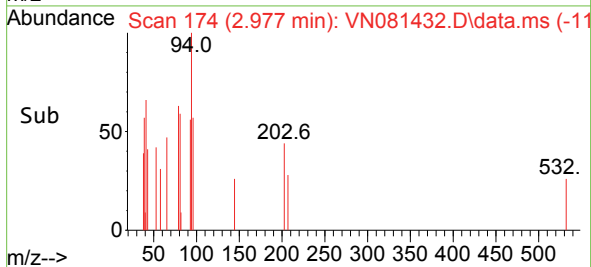
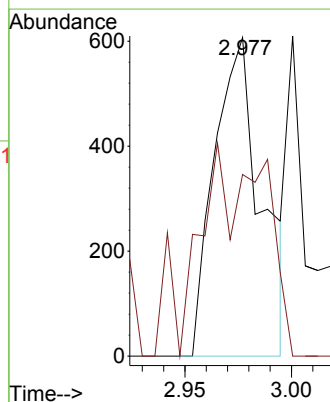
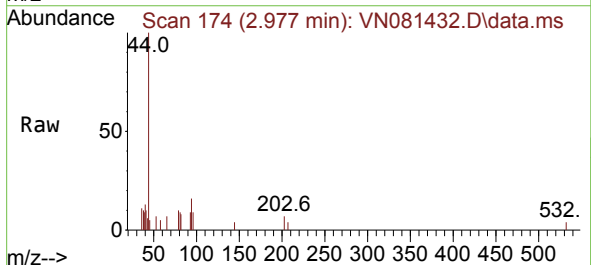
Instrument :
MSVOA_N
ClientSampleId :
MW-1

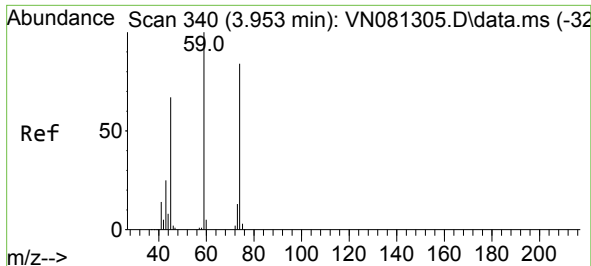
Tgt Ion:168 Resp: 298343
Ion Ratio Lower Upper
168 100
99 66.1 59.9 89.9



#5
Bromomethane
Concen: 0.312 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.029 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 94 Resp: 928
Ion Ratio Lower Upper
94 100
96 57.0 69.2 103.8#





#8

Diethyl Ether

Concen: 0.309 ug/l

RT: 3.953 min Scan# 34

Delta R.T. 0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

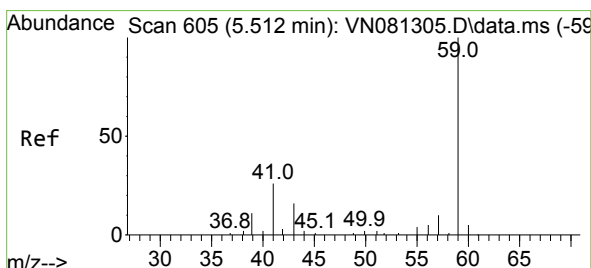
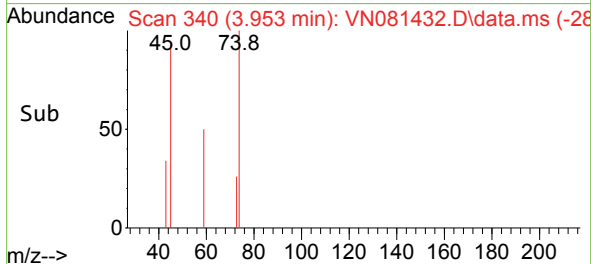
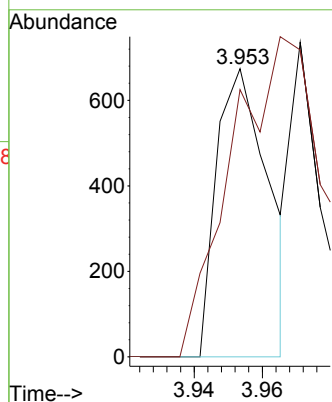
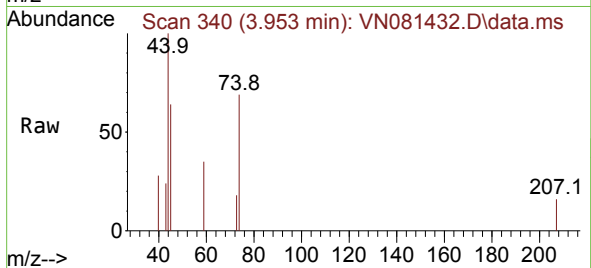
MW-1

Tgt Ion: 74 Resp: 717

Ion Ratio Lower Upper

74 100

45 218.4 53.3 159.9#



#11

Tert butyl alcohol

Concen: 4.062 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.006 min

Lab File: VN081432.D

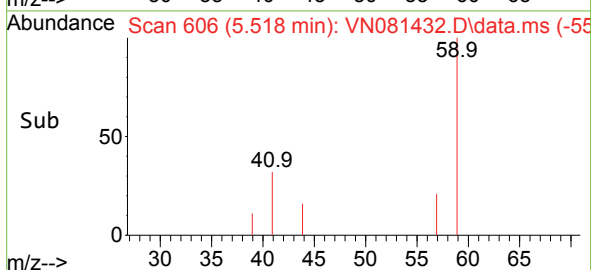
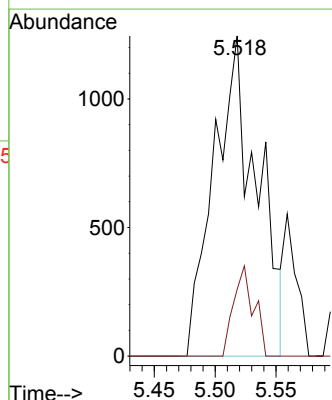
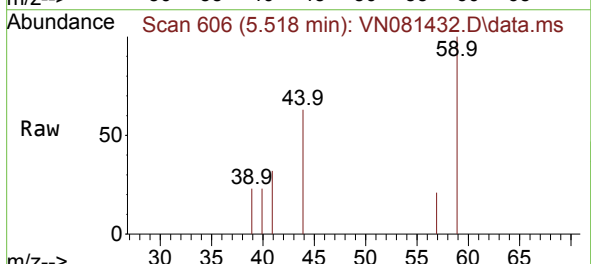
Acq: 15 Mar 2024 18:05

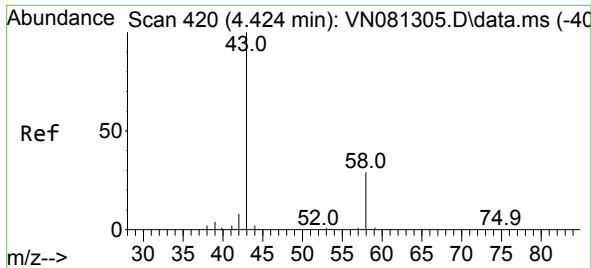
Tgt Ion: 59 Resp: 3064

Ion Ratio Lower Upper

59 100

57 13.1 8.6 12.8#





#16

Acetone

Concen: 0.573 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

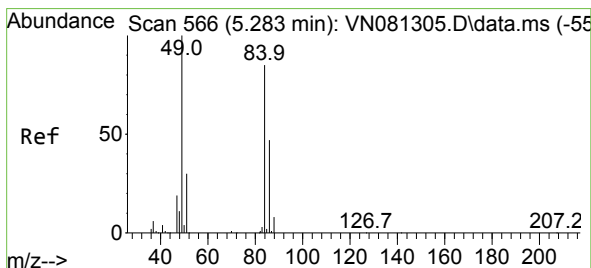
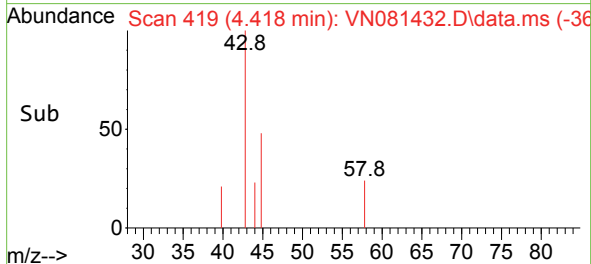
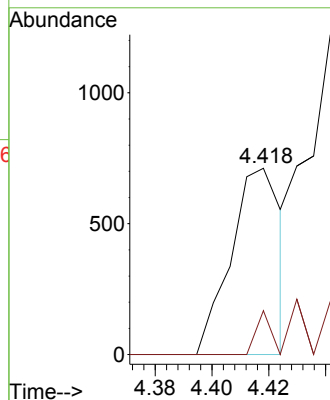
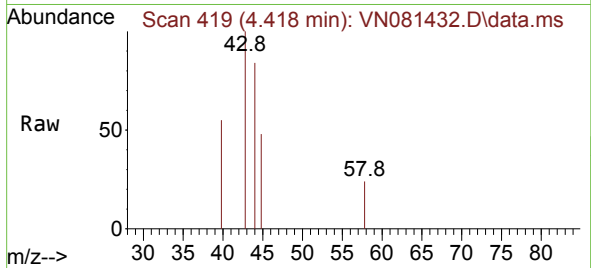
MW-1

Tgt Ion: 43 Resp: 875

Ion Ratio Lower Upper

43 100

58 23.6 24.8 37.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 566

Delta R.T. -0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Tgt Ion: 84 Resp: 335

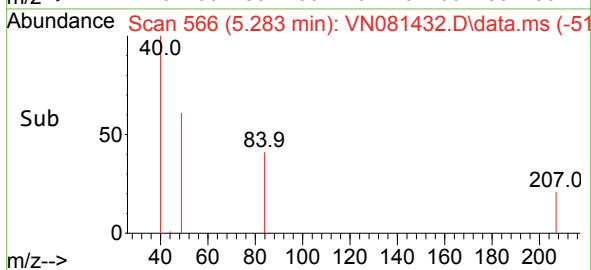
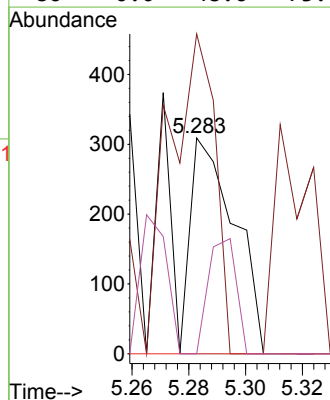
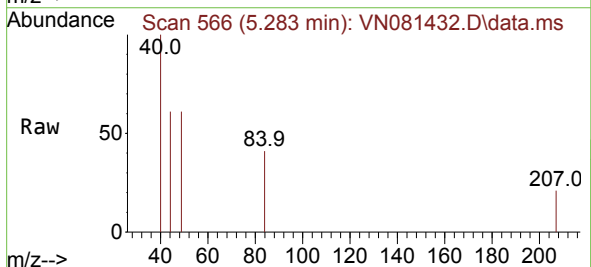
Ion Ratio Lower Upper

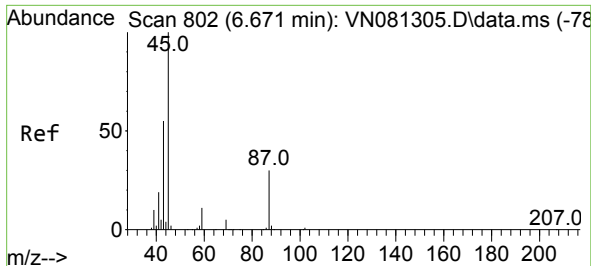
84 100

49 59.9 108.1 162.1#

51 0.0 32.9 49.3#

86 0.0 48.6 73.0#

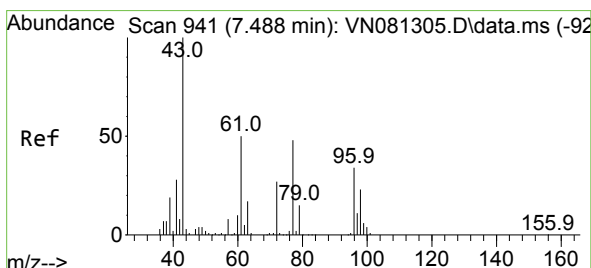
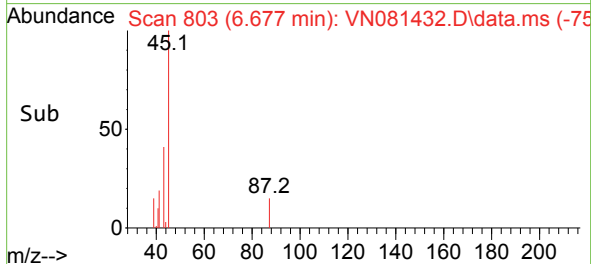
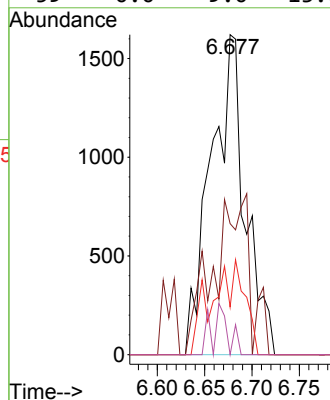
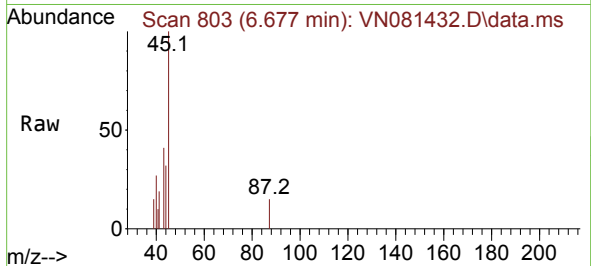




#22
Diisopropyl ether
Concen: 0.354 ug/l
RT: 6.677 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

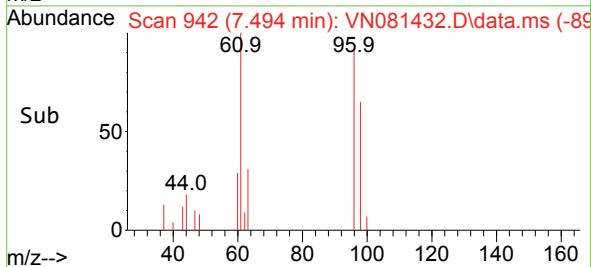
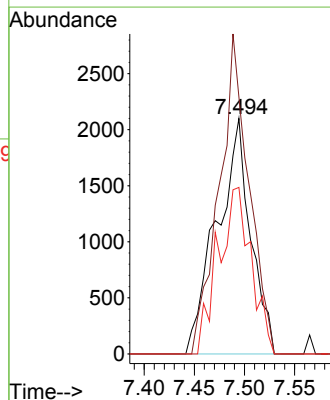
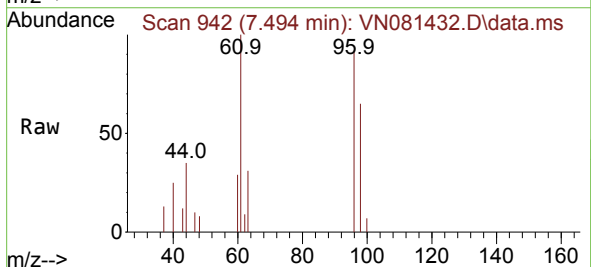
Instrument :
MSVOA_N
ClientSampleId :
MW-1

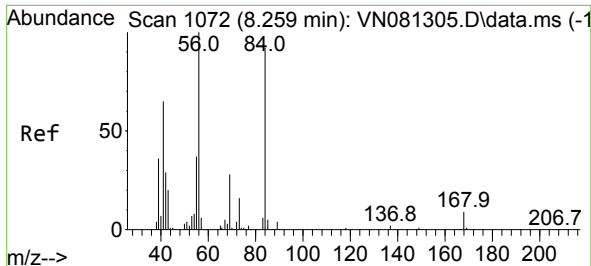
Tgt Ion: 45	Resp: 4060
Ion Ratio	Lower Upper
45 100	
43 41.0	41.8 62.8#
87 14.9	18.1 27.1#
59 0.0	9.0 13.6#



#27
cis-1,2-Dichloroethene
Concen: 1.106 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 96	Resp: 4916
Ion Ratio	Lower Upper
96 100	
61 120.0	0.0 325.4
98 68.9	0.0 130.4

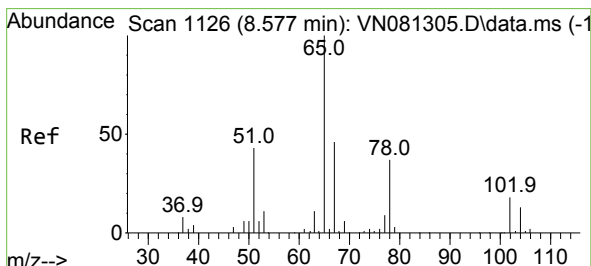
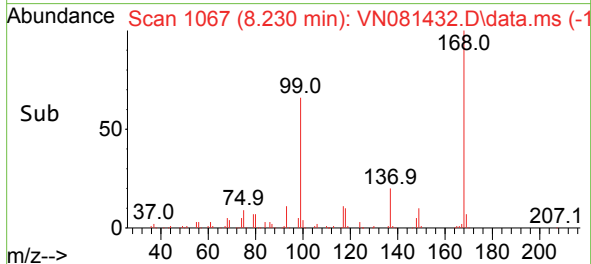
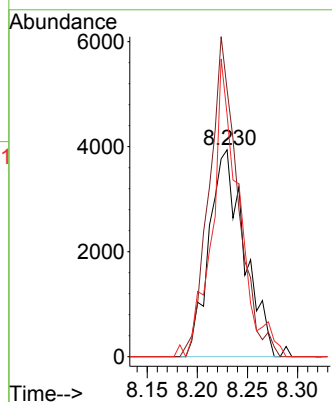
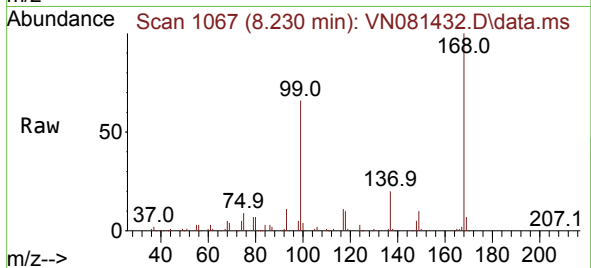




#31
Cyclohexane
Concen: 1.470 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

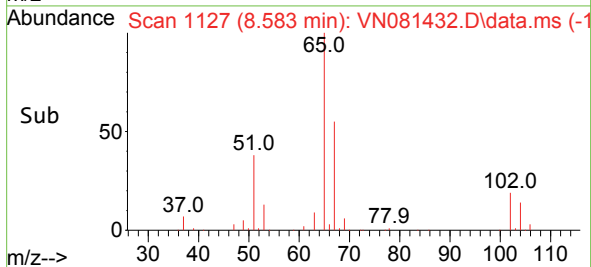
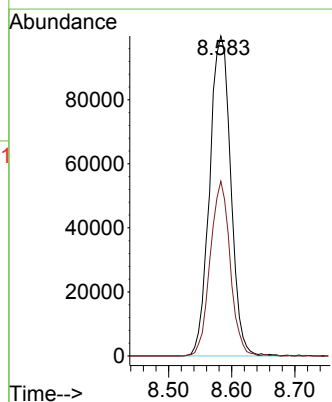
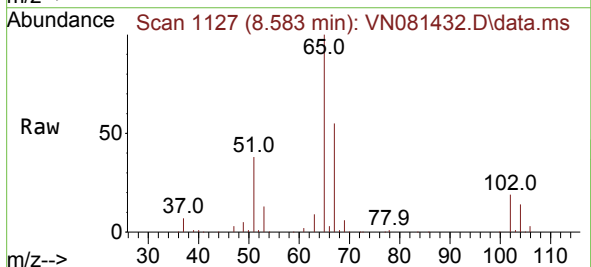
Instrument :
MSVOA_N
ClientSampleId :
MW-1

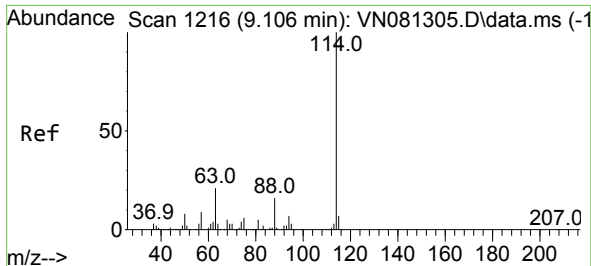
Tgt Ion: 56 Resp: 9603
Ion Ratio Lower Upper
56 100
69 129.1 20.1 30.1#
84 111.7 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 53.961 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 65 Resp: 232770
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

MW-1

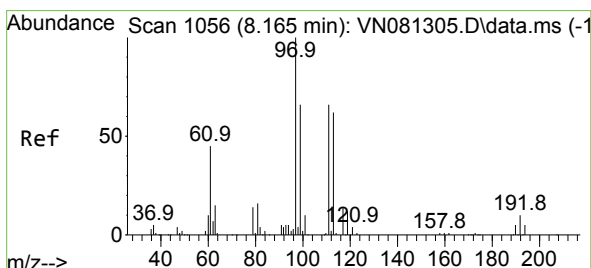
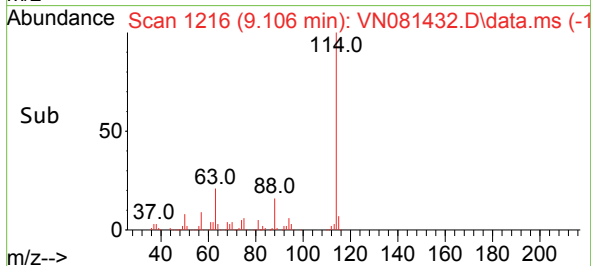
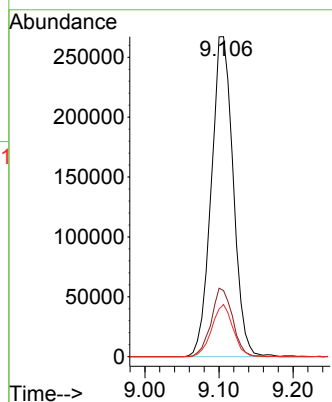
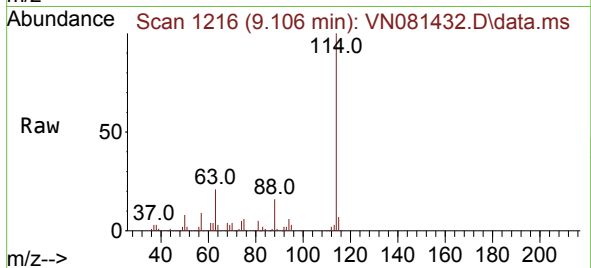
Tgt Ion:114 Resp: 549807

Ion Ratio Lower Upper

114 100

63 20.7 0.0 48.0

88 16.3 0.0 34.8



#35

Dibromofluoromethane

Concen: 52.535 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

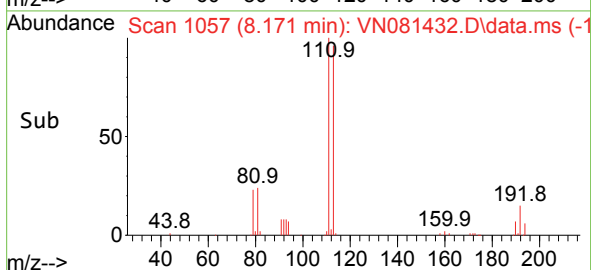
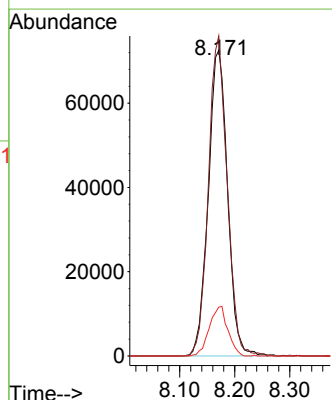
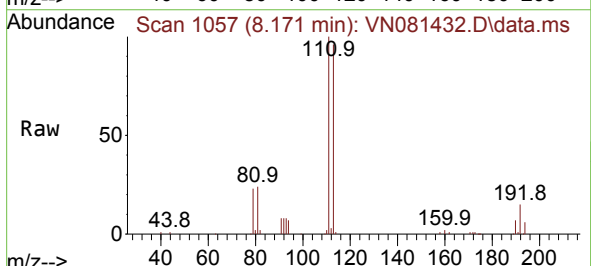
Tgt Ion:113 Resp: 176963

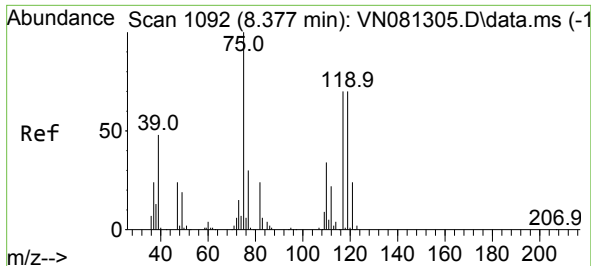
Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

192 15.6 12.5 18.7

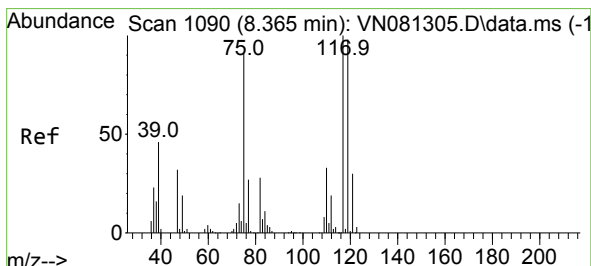
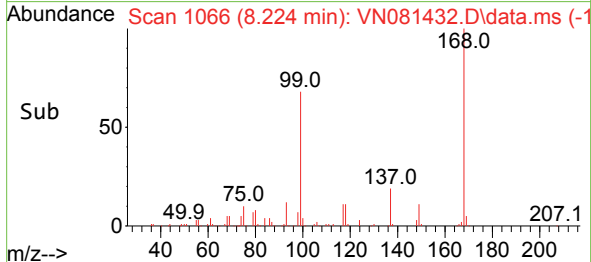
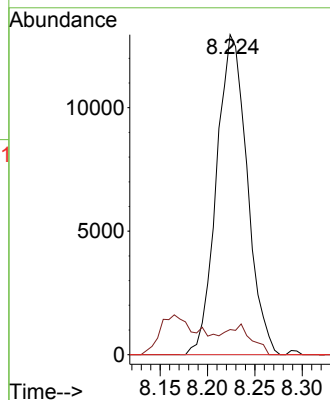
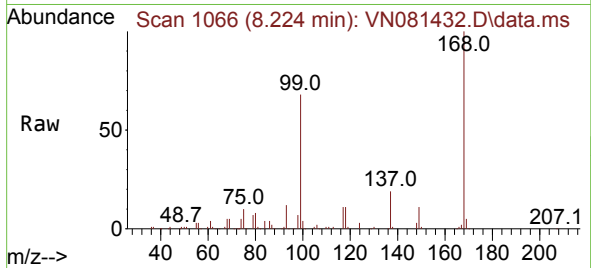




#36
1,1-Dichloropropene
Concen: 5.361 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

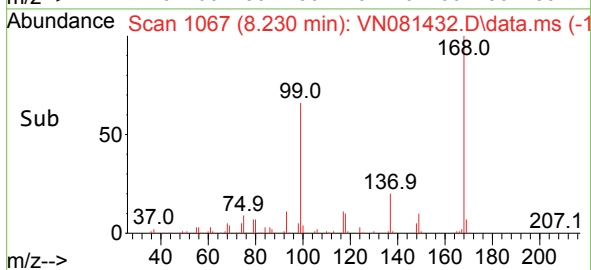
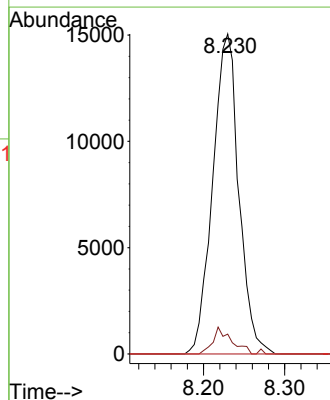
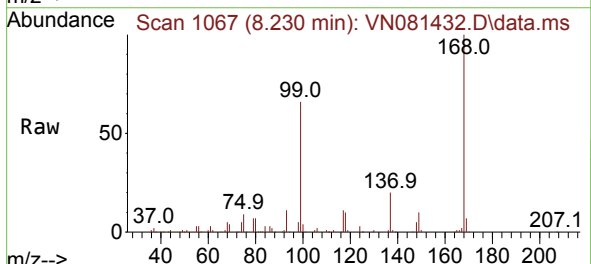
Instrument :
MSVOA_N
ClientSampleId :
MW-1

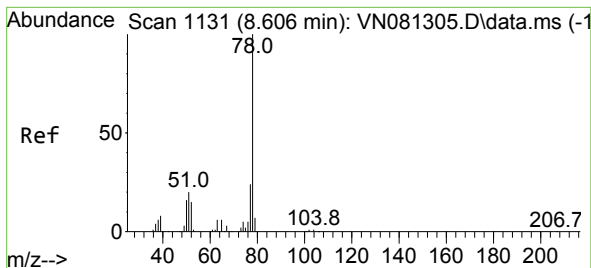
Tgt Ion: 75 Resp: 29133
Ion Ratio Lower Upper
75 100
110 7.7 16.0 48.0#
77 0.0 25.8 38.6#



#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 117 Resp: 33654
Ion Ratio Lower Upper
117 100
119 6.2 73.4 110.2#
121 0.0 24.4 36.6#





#40

Benzene

Concen: 0.522 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

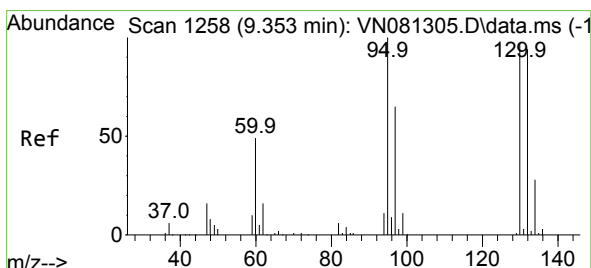
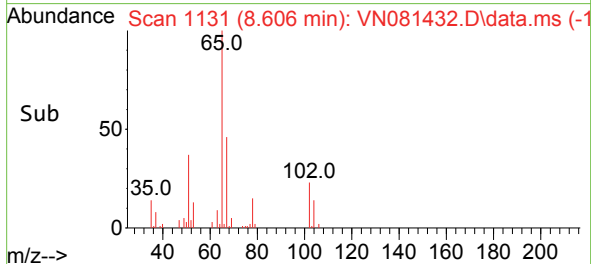
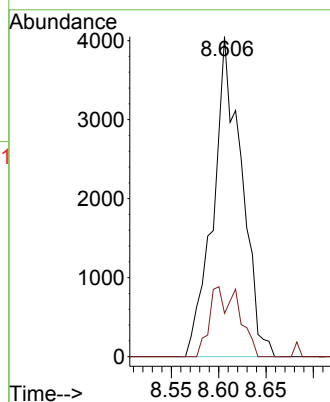
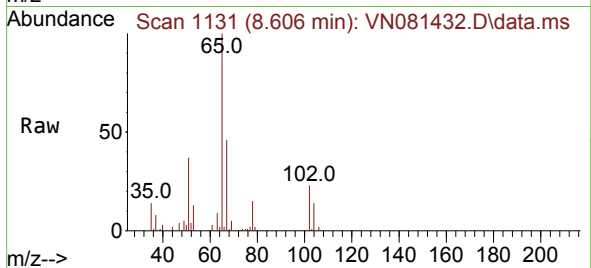
MW-1

Tgt Ion: 78 Resp: 8468

Ion Ratio Lower Upper

78 100

77 13.6 20.4 30.6#



#44

Trichloroethene

Concen: 0.288 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN081432.D

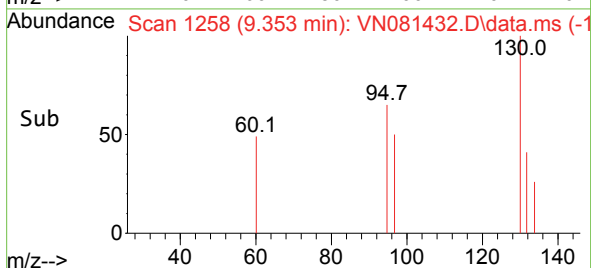
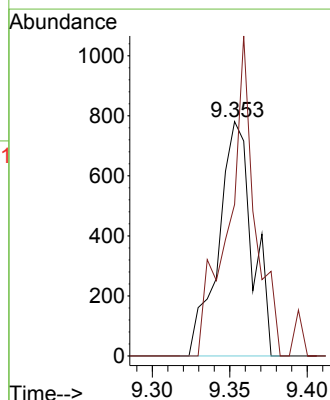
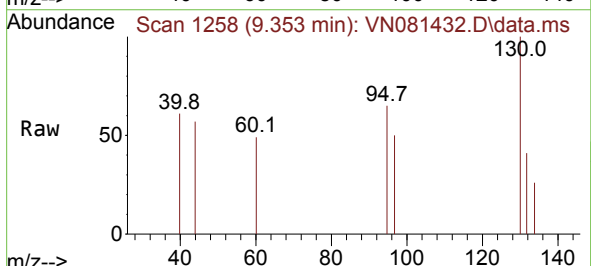
Acq: 15 Mar 2024 18:05

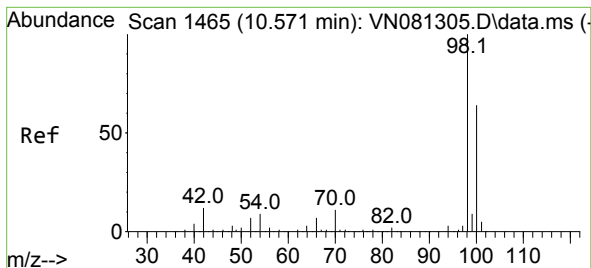
Tgt Ion: 130 Resp: 1180

Ion Ratio Lower Upper

130 100

95 64.7 0.0 210.4





#50

Toluene-d8

Concen: 52.522 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

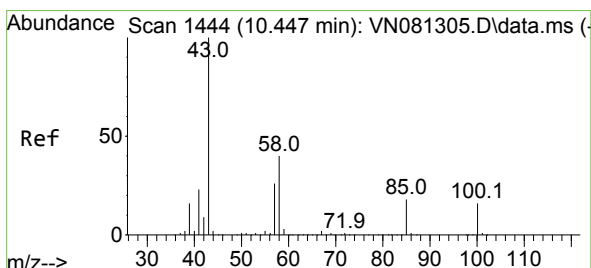
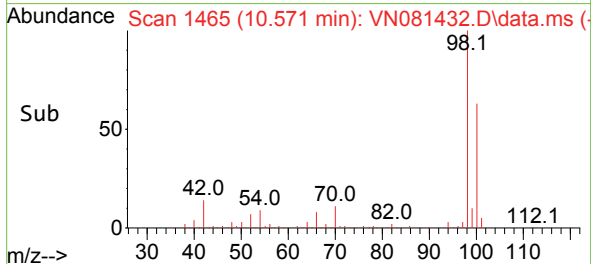
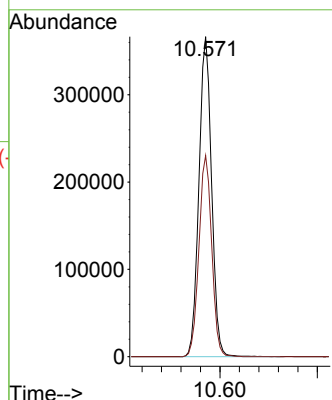
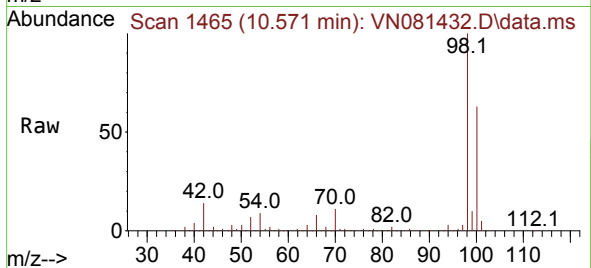
MW-1

Tgt Ion: 98 Resp: 661368

Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 0.583 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.118 min

Lab File: VN081432.D

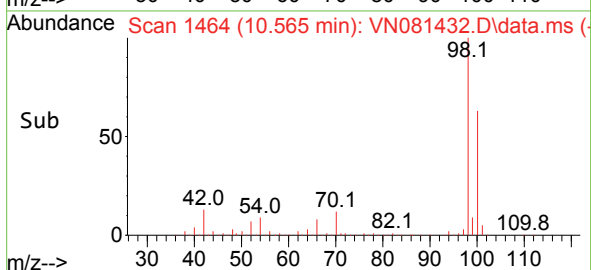
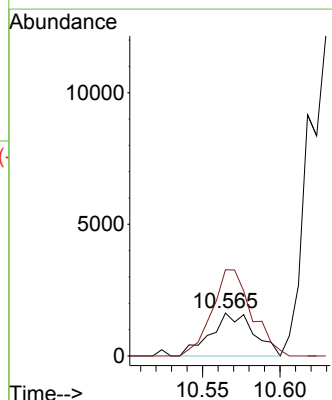
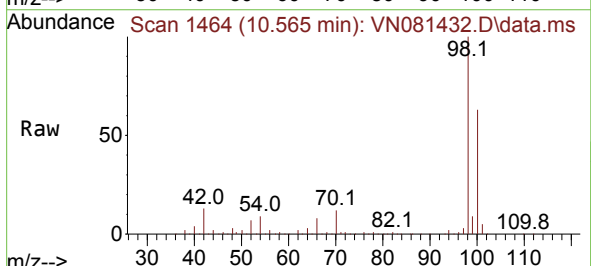
Acq: 15 Mar 2024 18:05

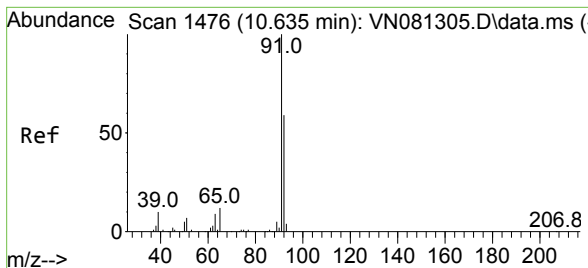
Tgt Ion: 43 Resp: 3147

Ion Ratio Lower Upper

43 100

58 185.4 29.4 44.0#





#52

Toluene

Concen: 173.486 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

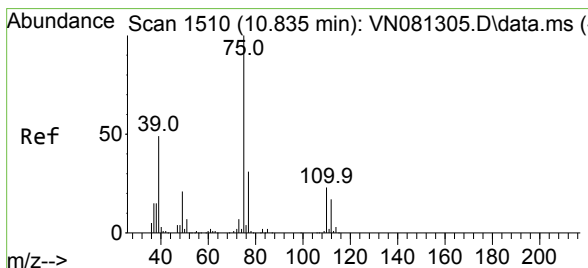
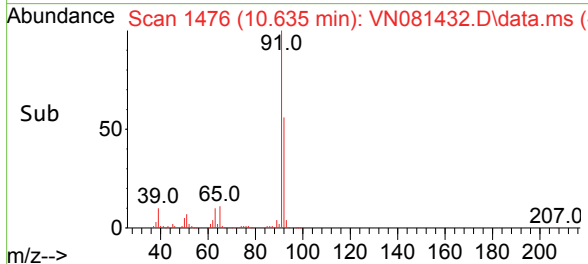
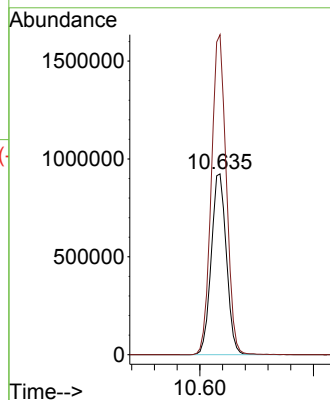
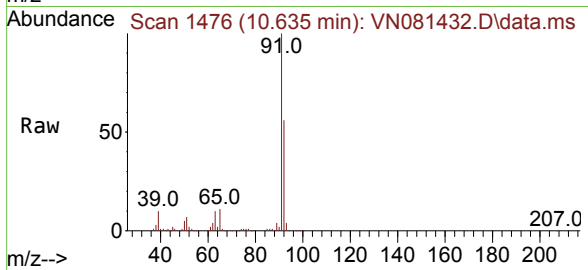
MW-1

Tgt Ion: 92 Resp: 1699949

Ion Ratio Lower Upper

92 100

91 175.3 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 3.703 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN081432.D

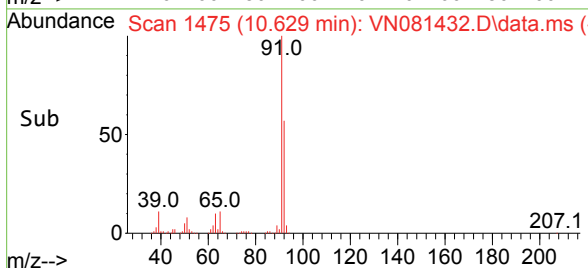
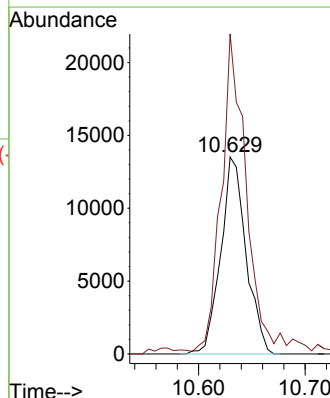
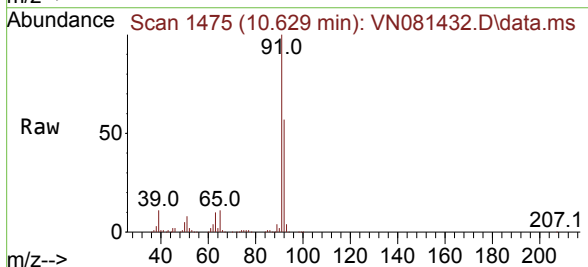
Acq: 15 Mar 2024 18:05

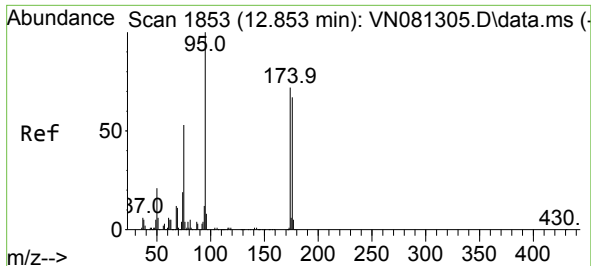
Tgt Ion: 75 Resp: 22343

Ion Ratio Lower Upper

75 100

77 160.4 25.5 38.3#

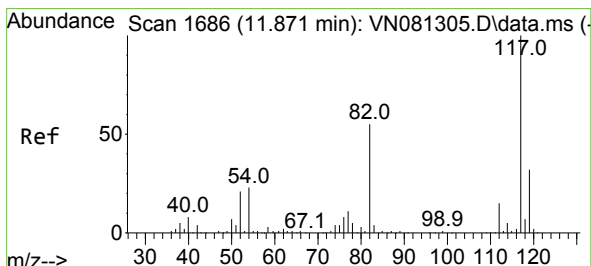
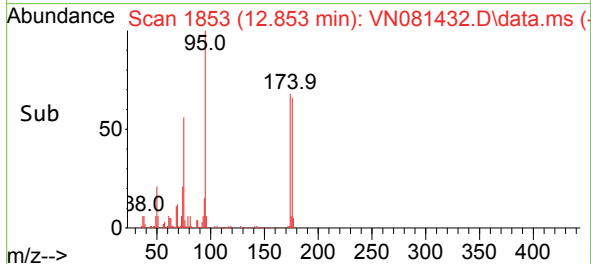
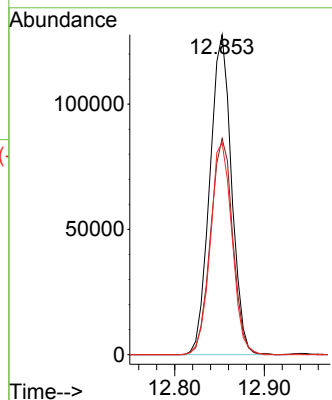
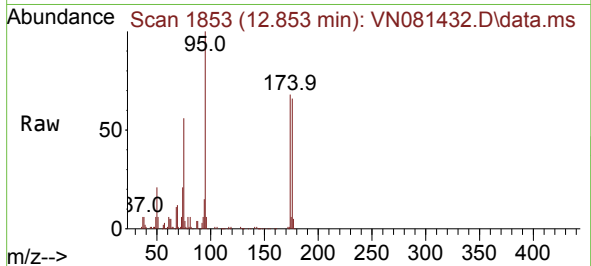




#62
4-Bromofluorobenzene
Concen: 48.254 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

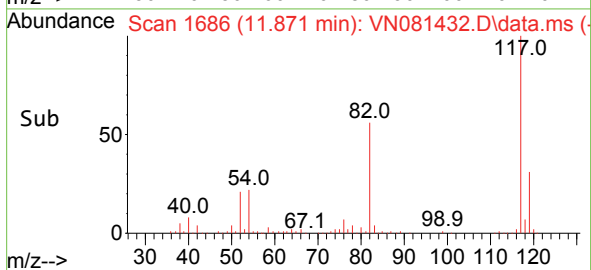
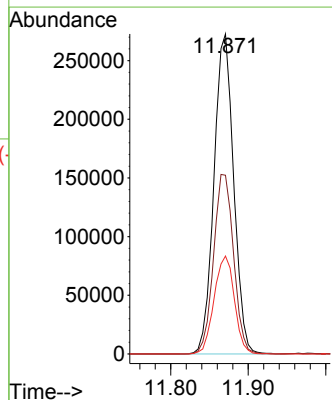
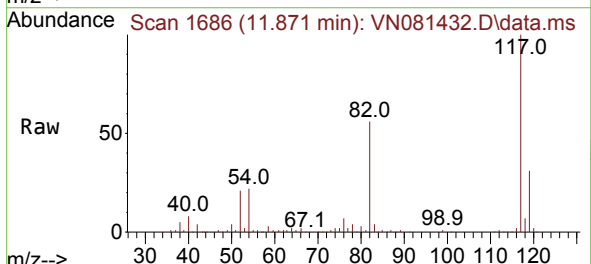
Instrument :
MSVOA_N
ClientSampleId :
MW-1

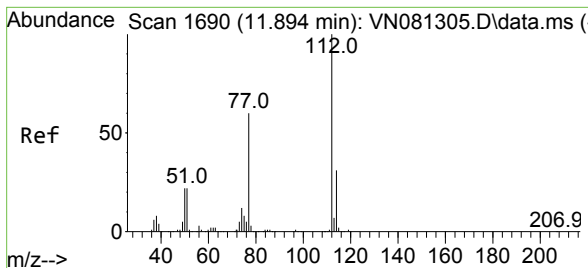
Tgt Ion: 95 Resp: 214758
Ion Ratio Lower Upper
95 100
174 69.1 0.0 120.4
176 66.2 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 117 Resp: 481564
Ion Ratio Lower Upper
117 100
82 55.9 52.7 79.1
119 30.6 25.3 37.9

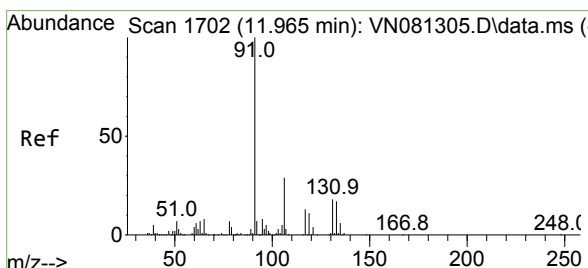
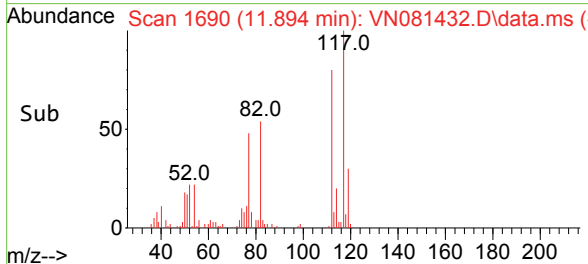
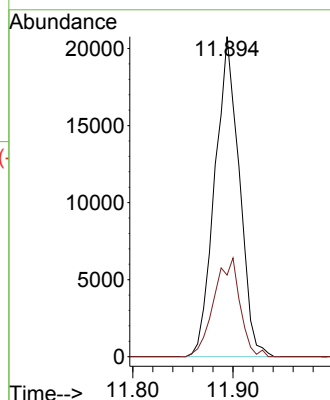
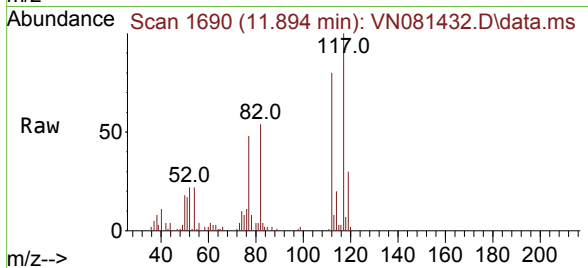




#65
Chlorobenzene
Concen: 3.464 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

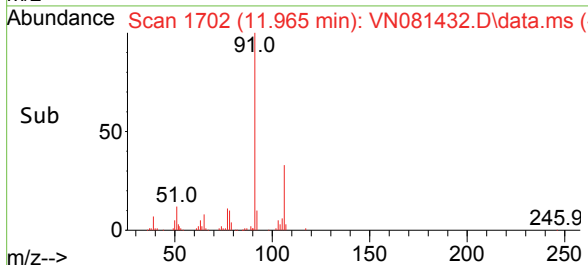
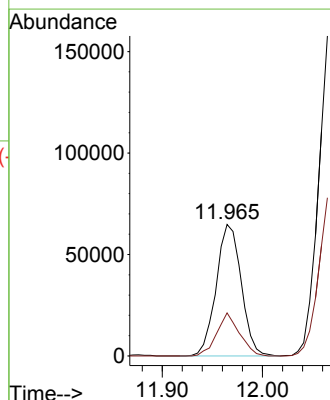
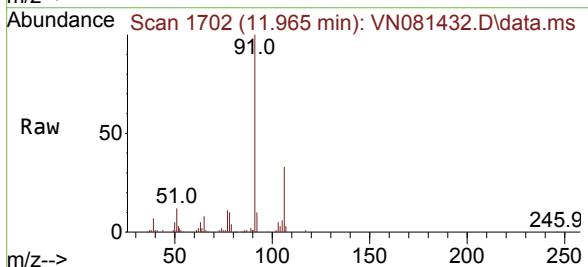
Instrument :
MSVOA_N
ClientSampleId :
MW-1

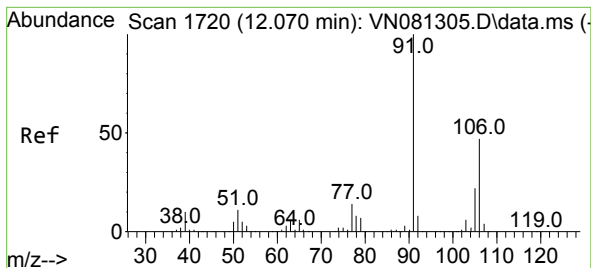
Tgt Ion: 112 Resp: 35147
Ion Ratio Lower Upper
112 100
114 25.5 23.7 35.5



#67
Ethyl Benzene
Concen: 6.154 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 91 Resp: 112498
Ion Ratio Lower Upper
91 100
106 32.7 23.8 35.6

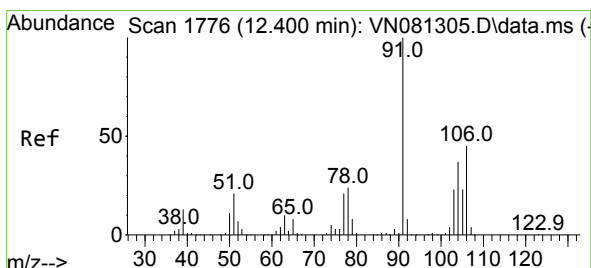
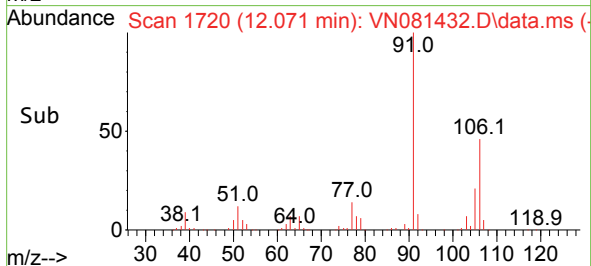
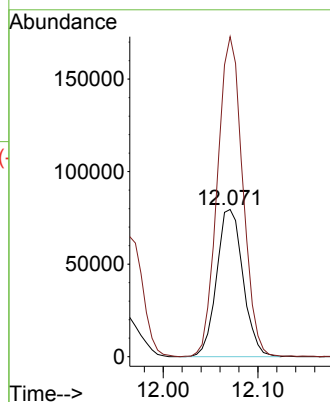
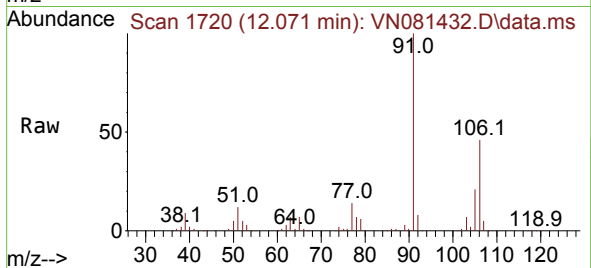




#68
m/p-Xylenes
Concen: 22.380 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

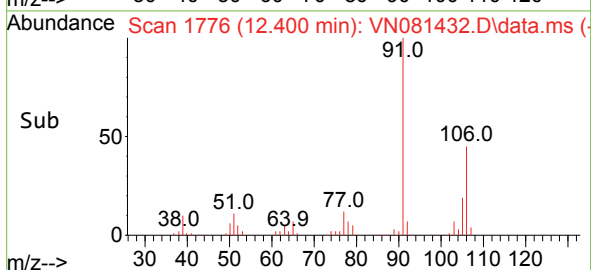
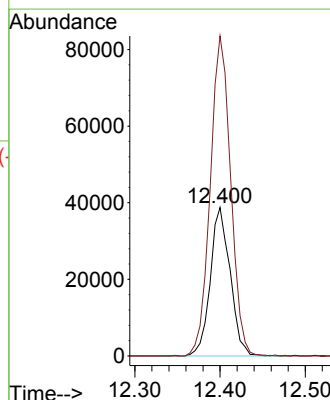
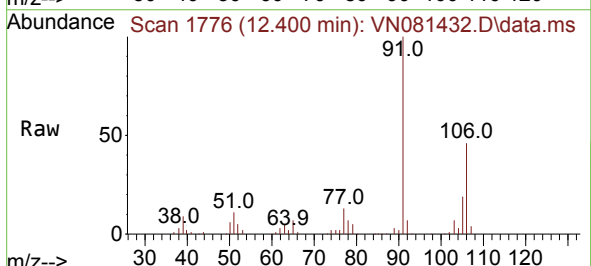
Instrument :
MSVOA_N
ClientSampleId :
MW-1

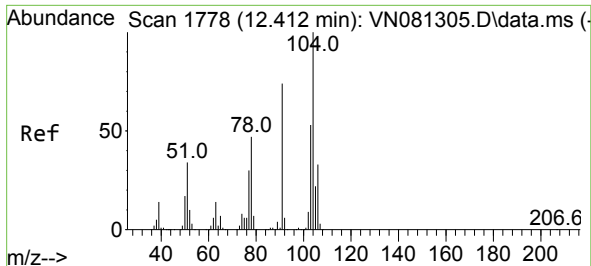
Tgt Ion:106 Resp: 153958
Ion Ratio Lower Upper
106 100
91 209.2 169.0 253.6



#69
o-Xylene
Concen: 9.398 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion:106 Resp: 62655
Ion Ratio Lower Upper
106 100
91 222.3 112.1 336.3

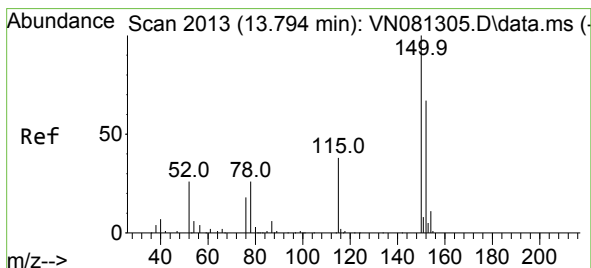
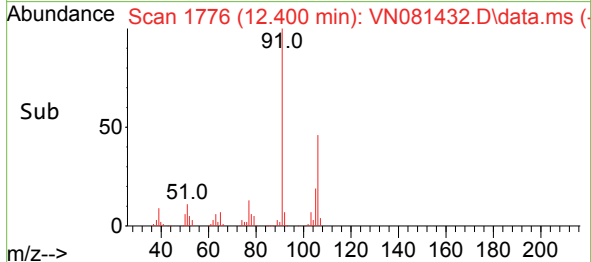
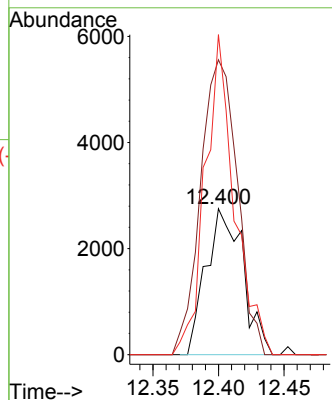
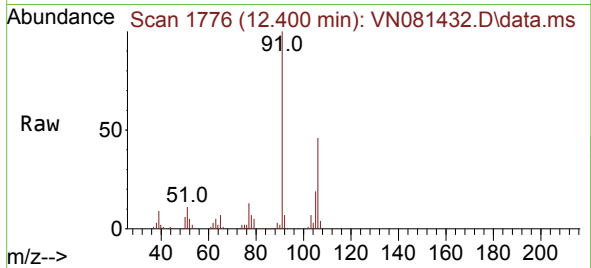




#70
Styrene
Concen: 0.512 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

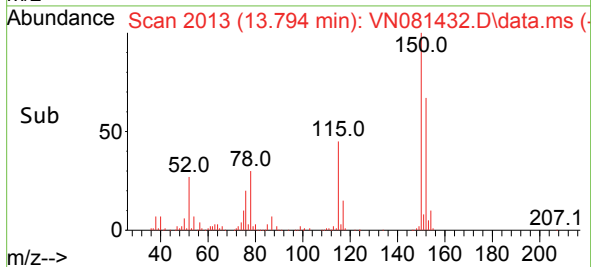
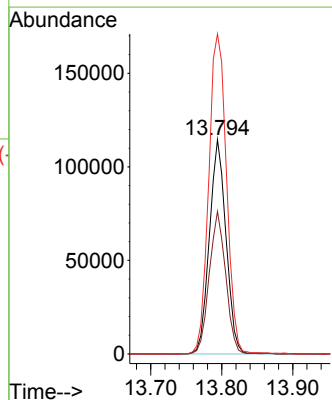
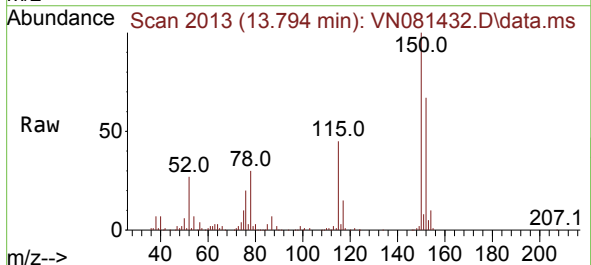
Instrument :
MSVOA_N
ClientSampleId :
MW-1

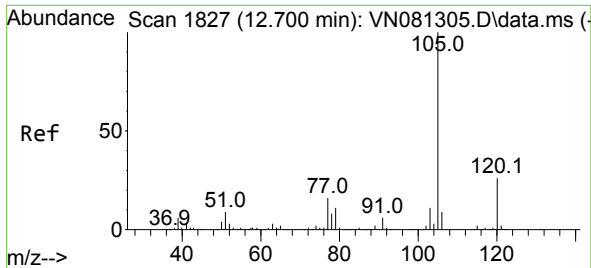
Tgt Ion:104 Resp: 5406
Ion Ratio Lower Upper
104 100
78 201.2 43.8 65.8#
103 173.7 44.2 66.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion:152 Resp: 186386
Ion Ratio Lower Upper
152 100
115 65.7 32.3 96.8
150 159.7 0.0 339.8

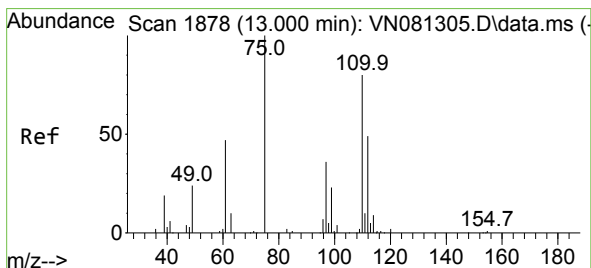
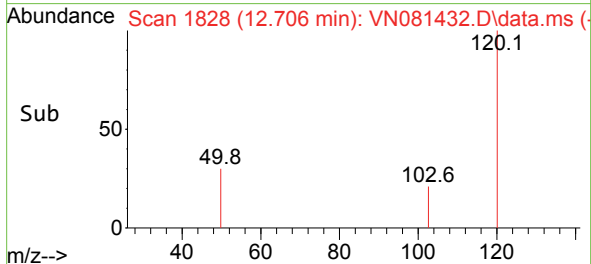
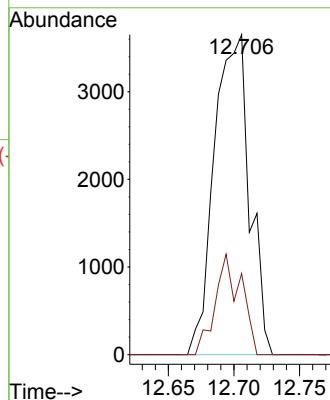
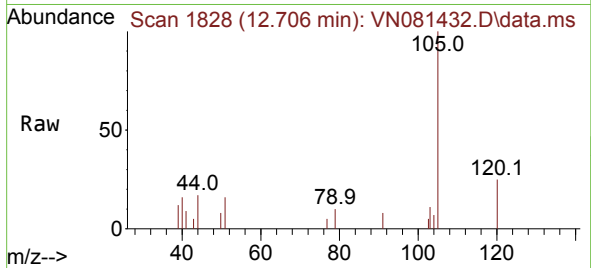




#73
Isopropylbenzene
Concen: 0.454 ug/l
RT: 12.706 min Scan# 1828
Delta R.T. 0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

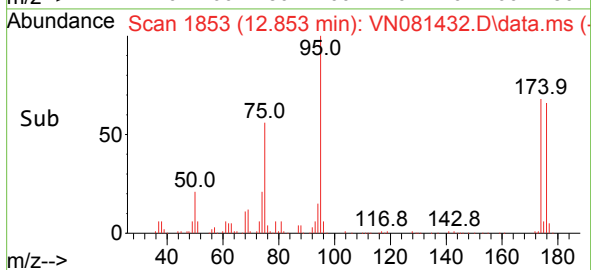
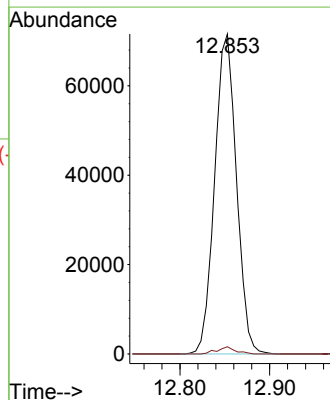
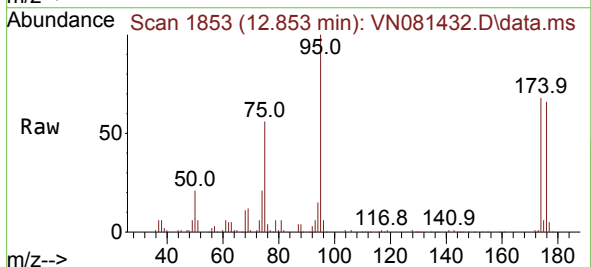
Instrument :
MSVOA_N
ClientSampleId :
MW-1

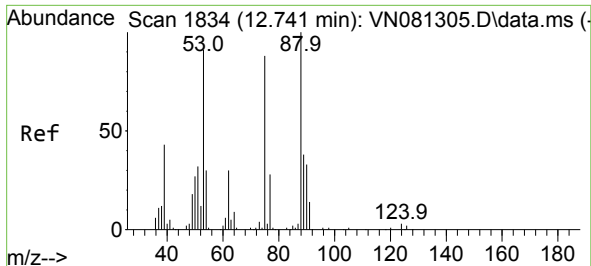
Tgt Ion:105 Resp: 6826
Ion Ratio Lower Upper
105 100
120 23.1 12.6 37.6



#76
1,2,3-Trichloropropane
Concen: 27.398 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Tgt Ion: 75 Resp: 120617
Ion Ratio Lower Upper
75 100
77 1.9 91.0 272.8#

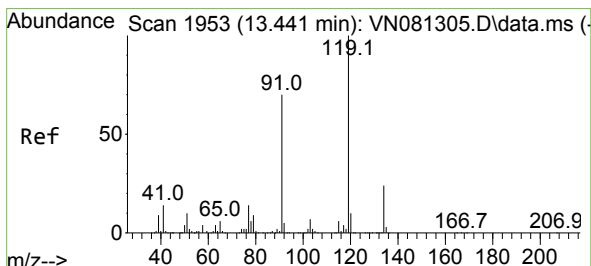
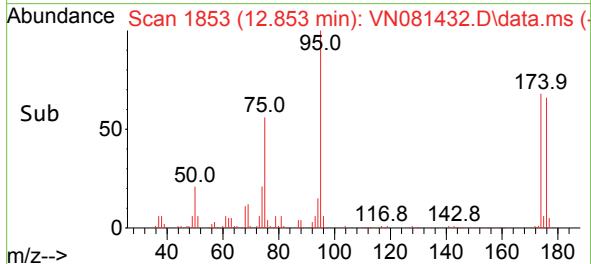
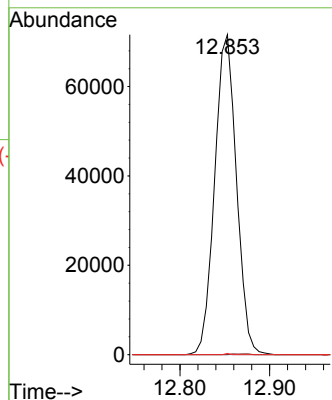
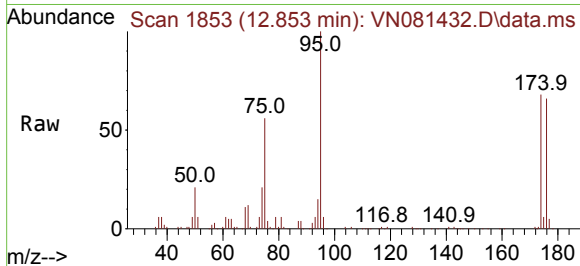




#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.463 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN081432.D
 Acq: 15 Mar 2024 18:05

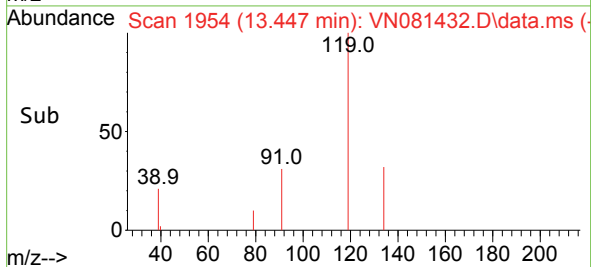
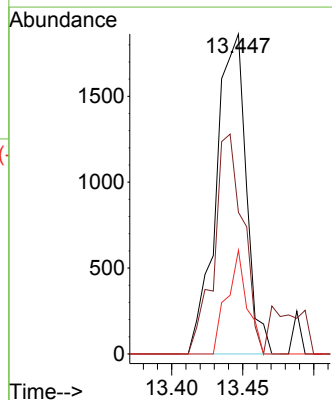
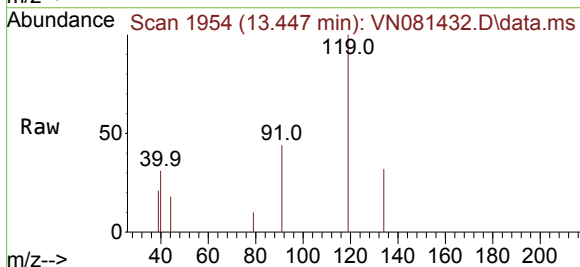
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

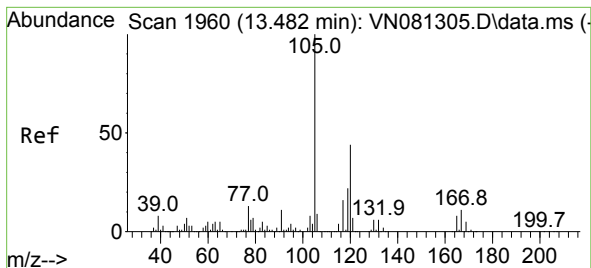
Tgt Ion: 75 Resp: 120617
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.1 33.4 50.0#



#83
 tert-Butylbenzene
 Concen: 0.257 ug/l
 RT: 13.447 min Scan# 1954
 Delta R.T. 0.006 min
 Lab File: VN081432.D
 Acq: 15 Mar 2024 18:05

Tgt Ion: 119 Resp: 2739
 Ion Ratio Lower Upper
 119 100
 91 66.2 36.8 110.4
 134 21.9 12.4 37.4





#84

1,2,4-Trimethylbenzene

Concen: 0.255 ug/l

RT: 13.494 min Scan# 1960

Delta R.T. 0.012 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

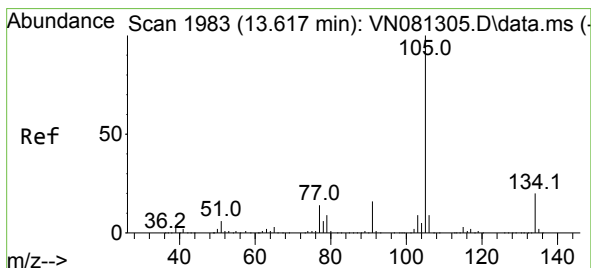
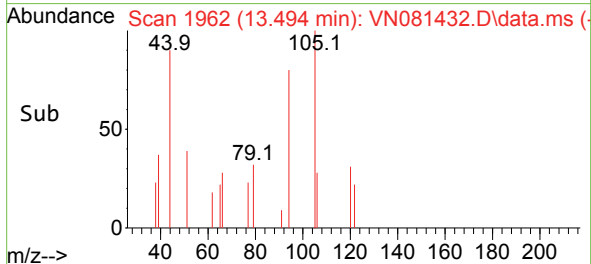
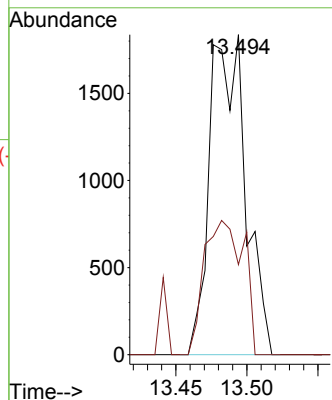
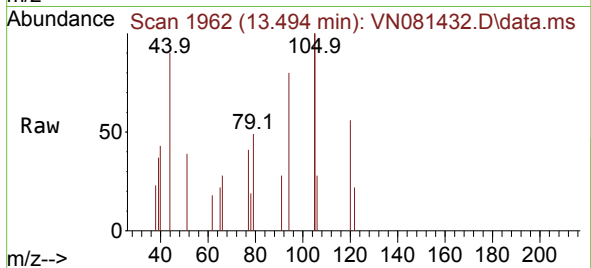
MW-1

Tgt Ion:105 Resp: 3215

Ion Ratio Lower Upper

105 100

120 46.2 20.9 62.7



#85

sec-Butylbenzene

Concen: 1.037 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN081432.D

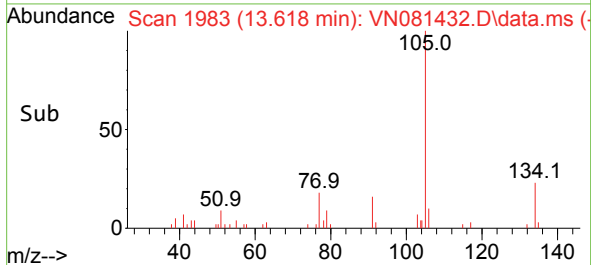
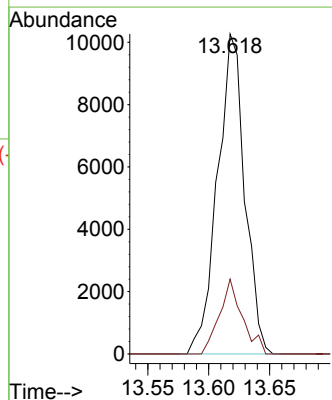
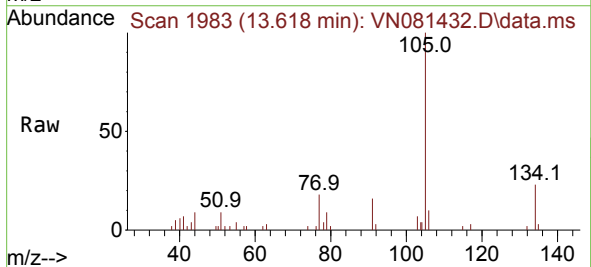
Acq: 15 Mar 2024 18:05

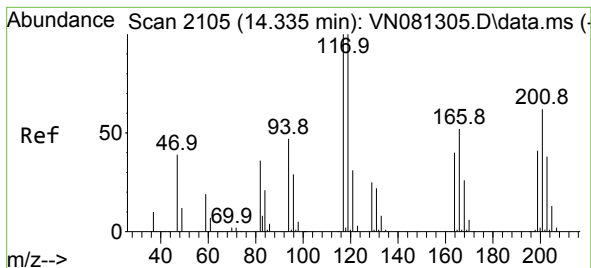
Tgt Ion:105 Resp: 16004

Ion Ratio Lower Upper

105 100

134 19.7 8.6 25.8





#90

Hexachloroethane

Concen: 1.561 ug/l

RT: 14.447 min Scan# 2105

Delta R.T. 0.112 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

Instrument :

MSVOA_N

ClientSampleId :

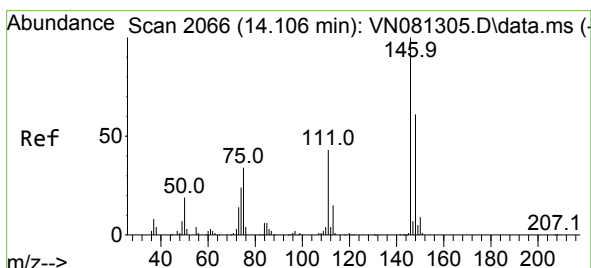
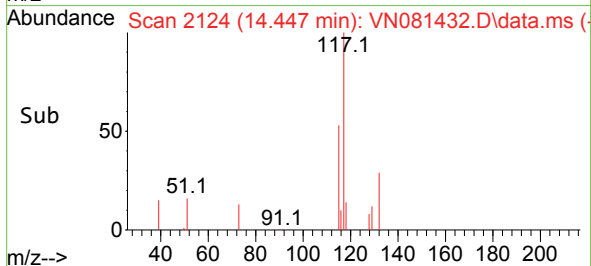
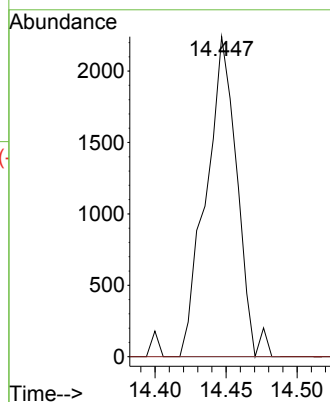
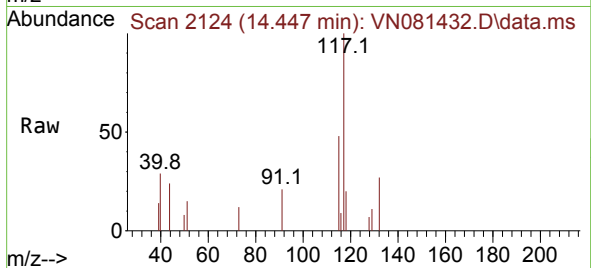
MW-1

Tgt Ion:117 Resp: 3383

Ion Ratio Lower Upper

117 100

201 0.0 30.0 90.0#



#91

1,2-Dichlorobenzene

Concen: 0.392 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.006 min

Lab File: VN081432.D

Acq: 15 Mar 2024 18:05

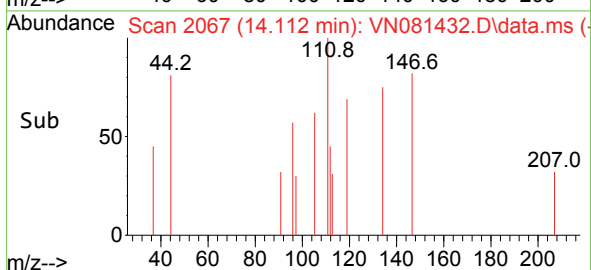
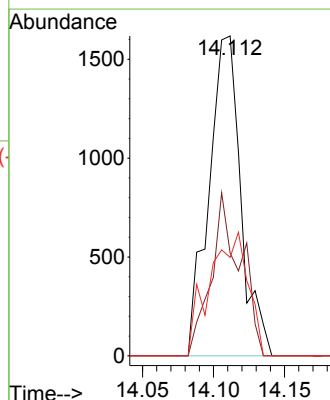
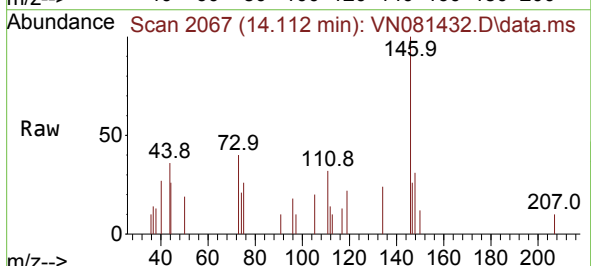
Tgt Ion:146 Resp: 2532

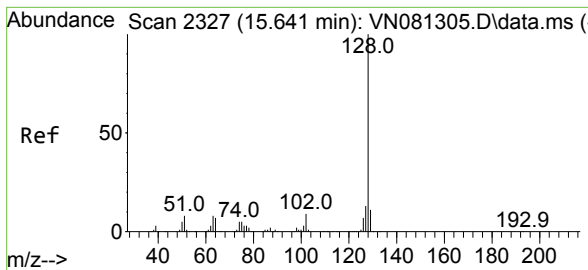
Ion Ratio Lower Upper

146 100

111 46.8 23.9 71.8

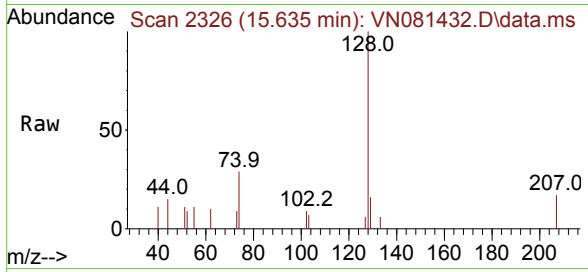
148 46.6 31.4 94.0





#95
Naphthalene
Concen: 0.529 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN081432.D
Acq: 15 Mar 2024 18:05

Instrument :
MSVOA_N
ClientSampleId :
MW-1



Tgt Ion:	128	Resp:	6510
Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.0	15.0
129	3.3	8.7	13.1#

