

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032524\
 Data File : VN081555.D
 Acq On : 25 Mar 2024 12:32
 Operator : JC\MD
 Sample : P1838-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE137-SP100-20240321

Quant Time: Mar 26 01:17:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

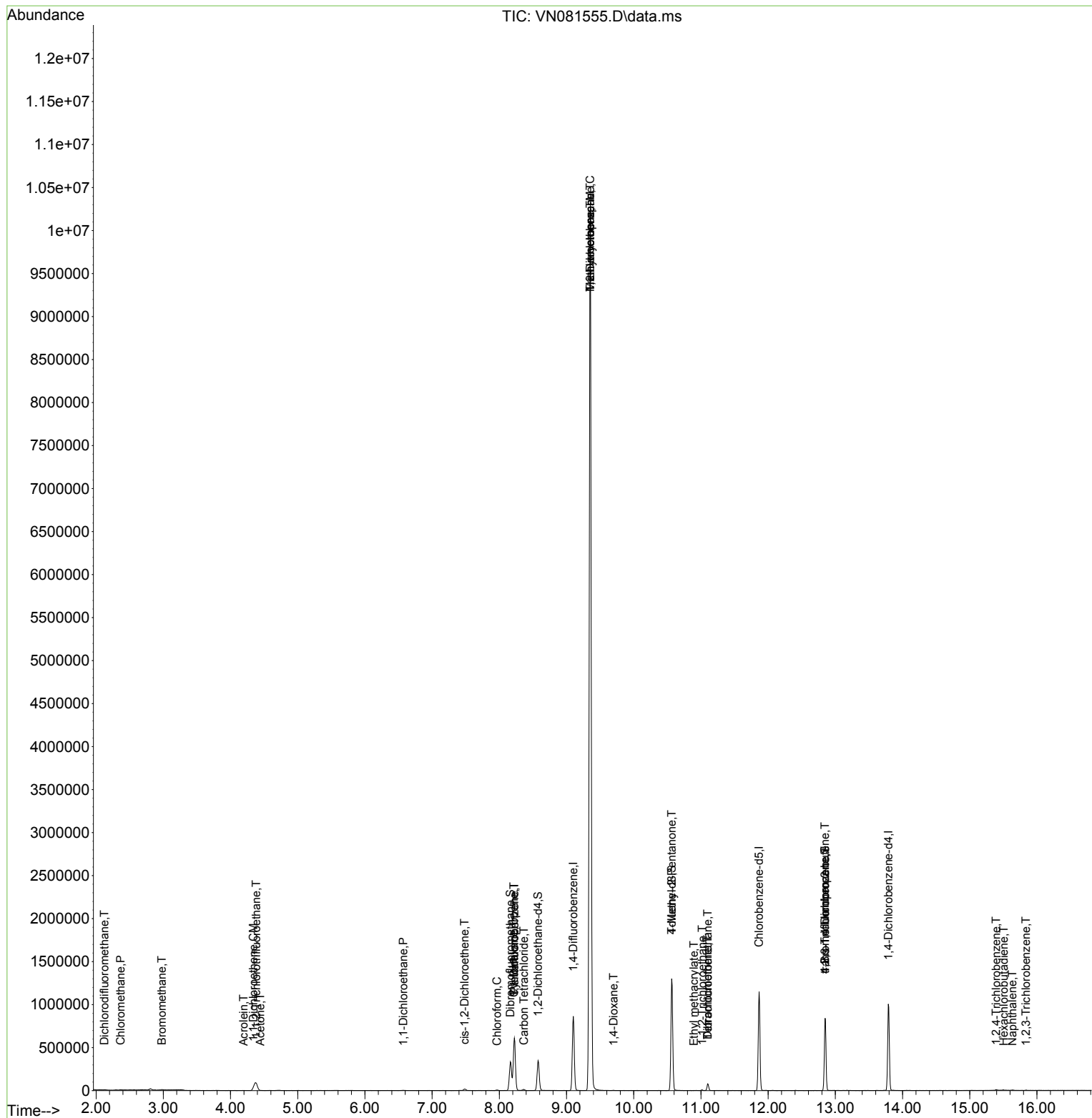
Internal Standards						
1) Pentafluorobenzene	8.224	168	442861	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	768966	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	676316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	276970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	280620	49.688	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.380%		
35) Dibromofluoromethane	8.165	113	236826	48.800	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.600%		
50) Toluene-d8	10.565	98	921197	52.511	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.020%		
62) 4-Bromofluorobenzene	12.847	95	284970	46.101	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	92.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	1731	0.290	ug/l	80
3) Chloromethane	2.365	50	1767	0.298	ug/l #	88
5) Bromomethane	2.977	94	2203	0.468	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.383	101	60740	10.765	ug/l #	88
12) 1,1-Dichloroethene	4.342	96	14136	2.705	ug/l #	76
13) Acrolein	4.195	56	579	0.656	ug/l #	51
16) Acetone	4.442	43	1792	0.982	ug/l #	83
24) 1,1-Dichloroethane	6.571	63	4986	0.489	ug/l #	85
27) cis-1,2-Dichloroethene	7.483	96	11918	1.808	ug/l	70
30) Chloroform	7.965	83	5875	0.538	ug/l	98
31) Cyclohexane	8.218	56	10003	1.088	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	35004	4.286	ug/l #	52
38) Carbon Tetrachloride	8.365	117	9293	1.039	ug/l #	81
39) Methylcyclohexane	9.353	83	44675	4.898	ug/l #	1
44) Trichloroethene	9.353	130	3685936	548.881	ug/l	94
45) 1,2-Dichloropropane	9.353	63	11183	1.933	ug/l #	1
49) 1,4-Dioxane	9.700	88	1877	14.608	ug/l #	24
51) 4-Methyl-2-Pentanone	10.565	43	3832	0.542	ug/l #	1
55) 1,1,2-Trichloroethane	11.018	97	2338	0.383	ug/l #	79
56) Ethyl methacrylate	10.894	69	82	0.580	ug/l #	1
60) Dibromochloromethane	11.100	129	18265	2.719	ug/l #	10
64) Tetrachloroethene	11.100	164	17123	2.649	ug/l	93
76) 1,2,3-Trichloropropane	12.847	75	150360	22.695	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	150360	61.329	ug/l #	14
93) 1,2,4-Trichlorobenzene	15.394	180	1800	0.302	ug/l	84
94) Hexachlorobutadiene	15.506	225	938	0.358	ug/l	69
95) Naphthalene	15.635	128	5053	0.262	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.835	180	1651	0.275	ug/l #	88

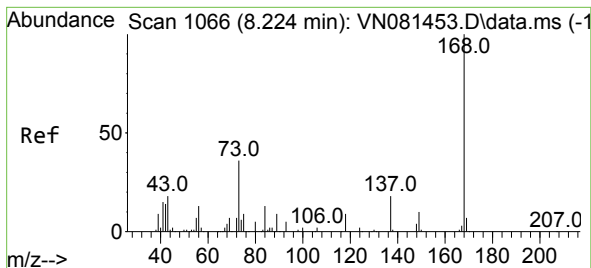
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032524\
Data File : VN081555.D
Acq On : 25 Mar 2024 12:32
Operator : JC\MD
Sample : P1838-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

Quant Time: Mar 26 01:17:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 19 06:00:00 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

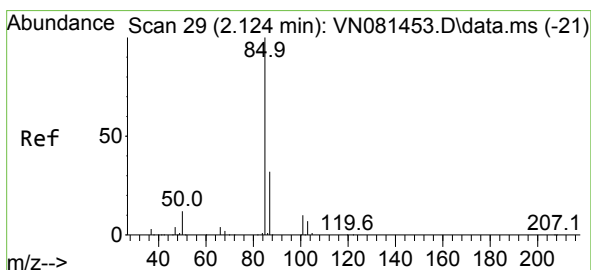
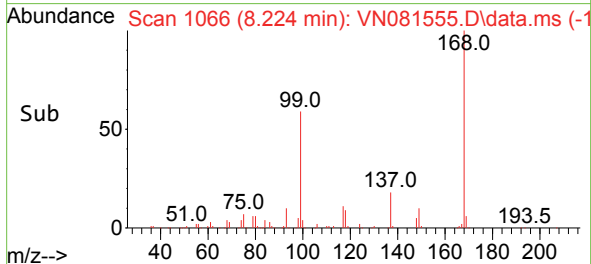
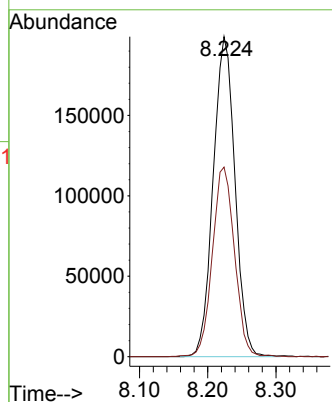
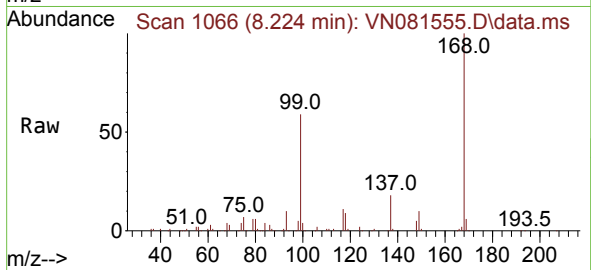
RE137-SP100-20240321

Tgt Ion:168 Resp: 442861

Ion Ratio Lower Upper

168 100

99 59.1 59.9 89.9#



#2

Dichlorodifluoromethane

Concen: 0.290 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN081555.D

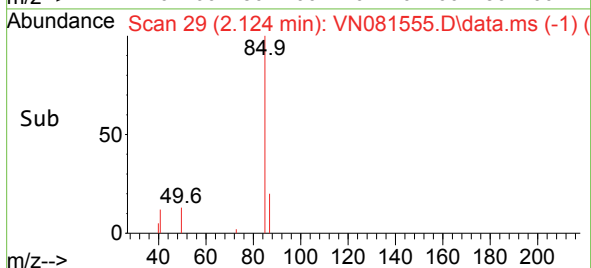
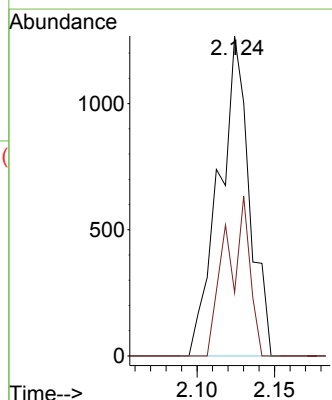
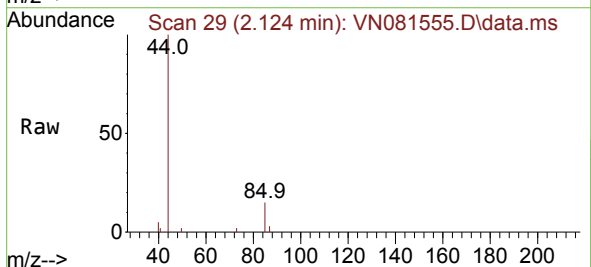
Acq: 25 Mar 2024 12:32

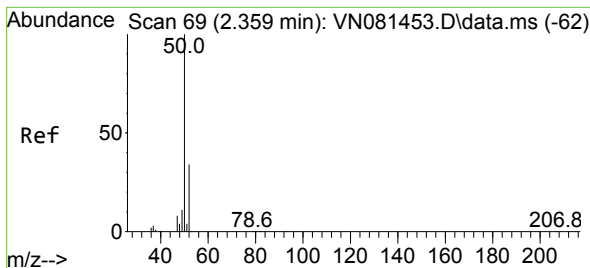
Tgt Ion: 85 Resp: 1731

Ion Ratio Lower Upper

85 100

87 19.8 15.3 45.9





#3

Chloromethane

Concen: 0.298 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

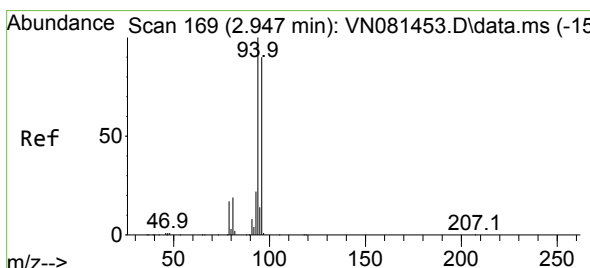
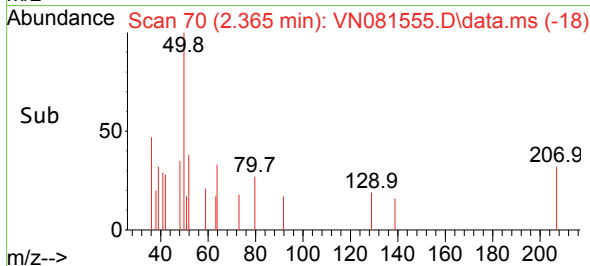
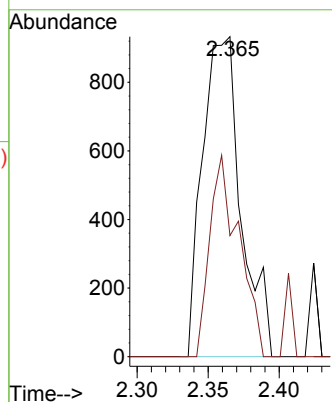
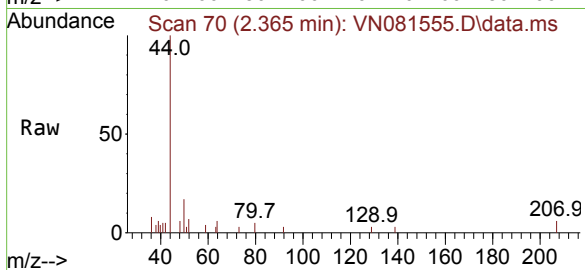
RE137-SP100-20240321

Tgt Ion: 50 Resp: 1767

Ion Ratio Lower Upper

50 100

52 37.8 25.0 37.4#



#5

Bromomethane

Concen: 0.468 ug/l

RT: 2.977 min Scan# 174

Delta R.T. 0.030 min

Lab File: VN081555.D

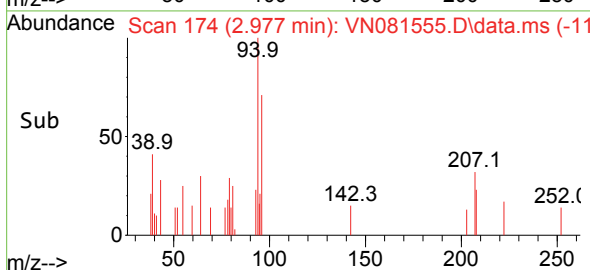
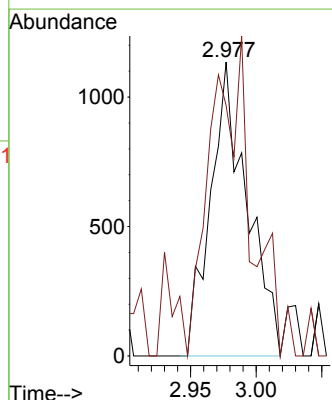
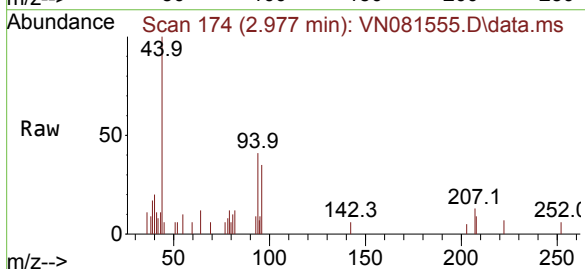
Acq: 25 Mar 2024 12:32

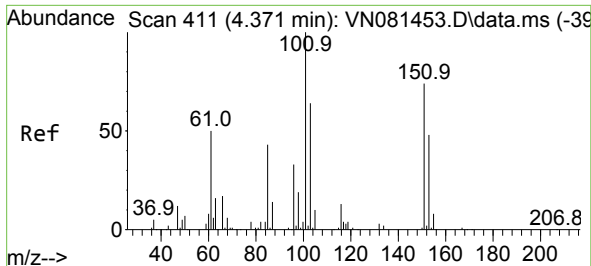
Tgt Ion: 94 Resp: 2203

Ion Ratio Lower Upper

94 100

96 73.1 69.2 103.8

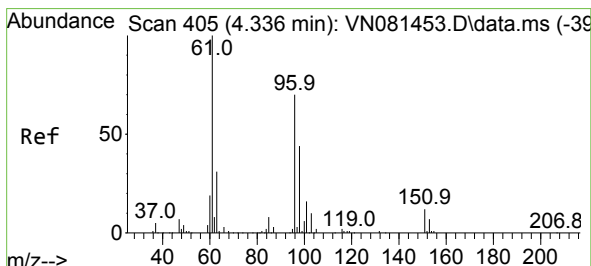
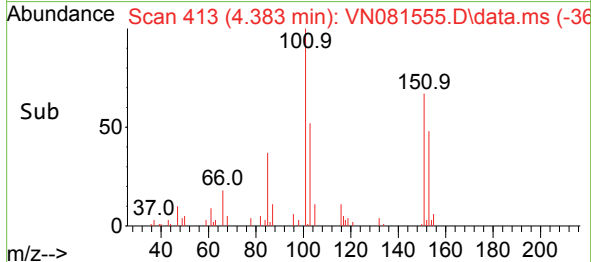
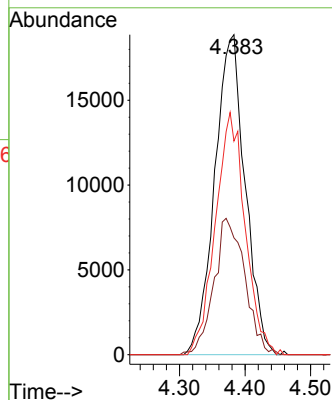
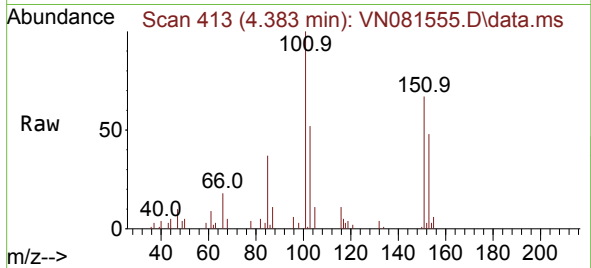




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.765 ug/l
RT: 4.383 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

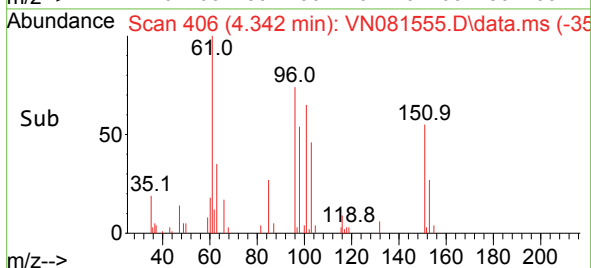
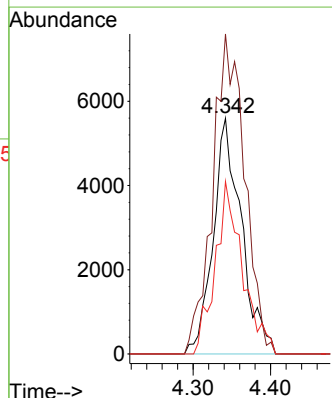
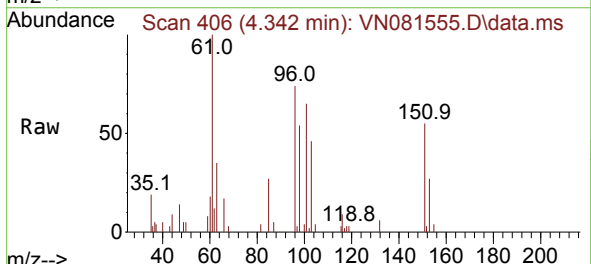
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

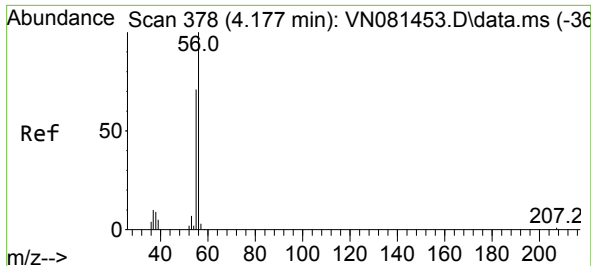
Tgt Ion:101 Resp: 60740
Ion Ratio Lower Upper
101 100
85 43.2 38.1 57.1
151 74.3 49.1 73.7#



#12
1,1-Dichloroethene
Concen: 2.705 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 96 Resp: 14136
Ion Ratio Lower Upper
96 100
61 135.8 138.2 207.4#
98 73.2 49.2 73.8

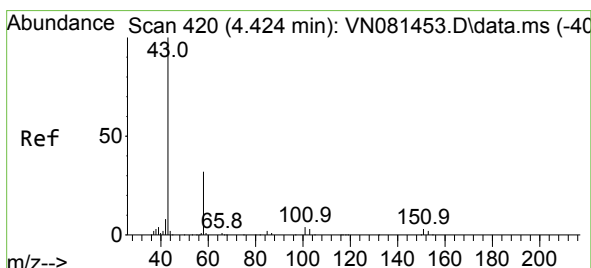
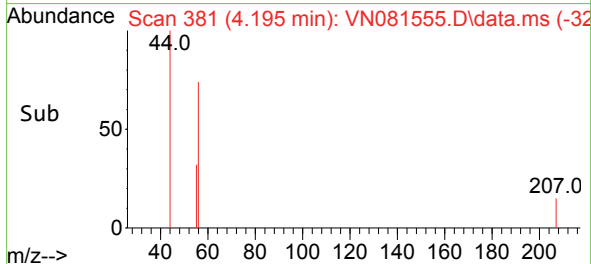
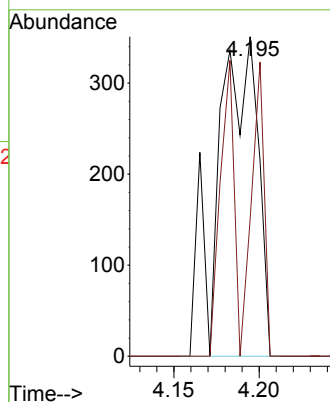
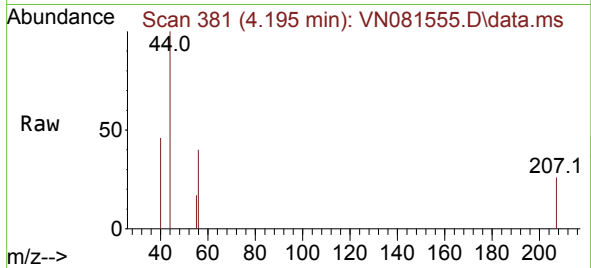




#13
Acrolein
Concen: 0.656 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

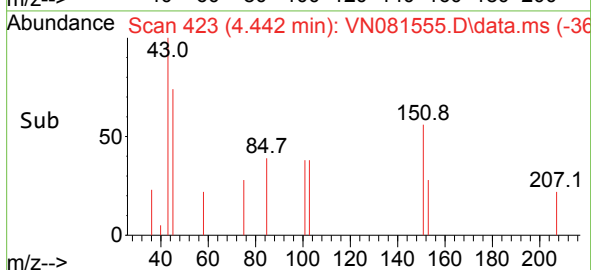
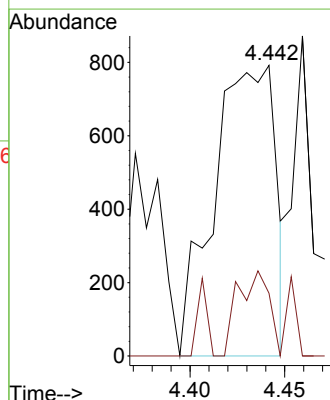
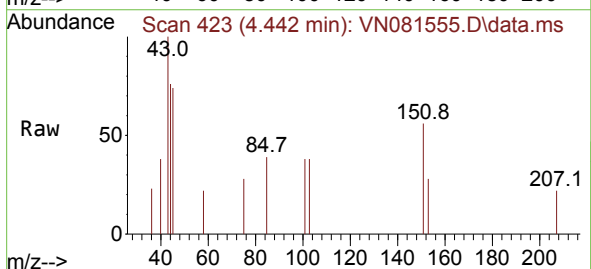
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

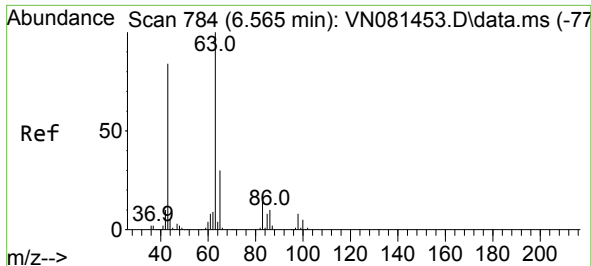
Tgt Ion: 56 Resp: 579
Ion Ratio Lower Upper
56 100
55 28.8 55.3 82.9#



#16
Acetone
Concen: 0.982 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 43 Resp: 1792
Ion Ratio Lower Upper
43 100
58 21.6 24.8 37.2#

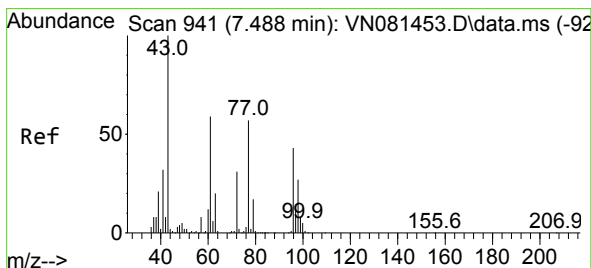
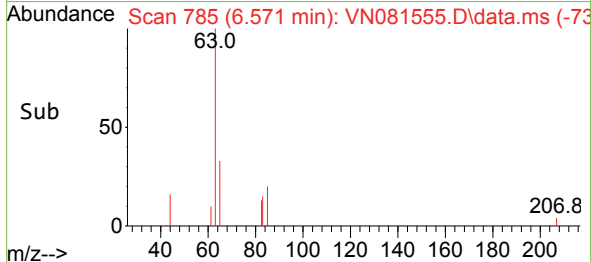
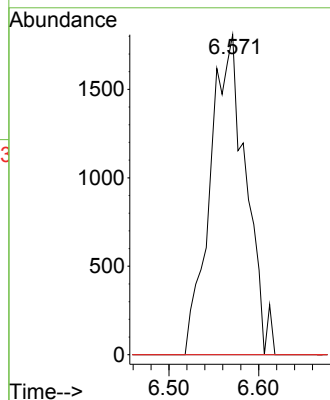
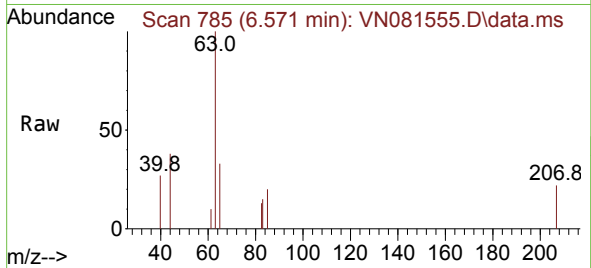




#24
1,1-Dichloroethane
Concen: 0.489 ug/l
RT: 6.571 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

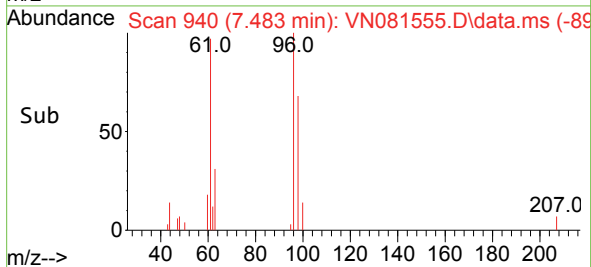
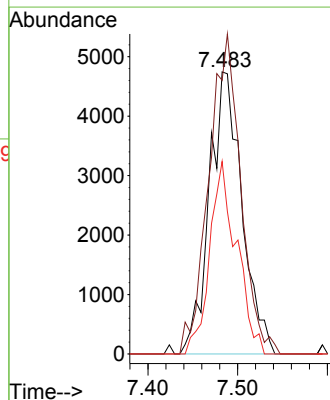
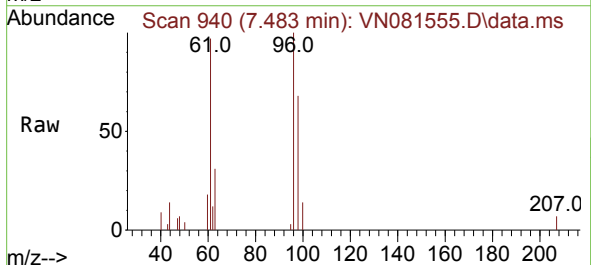
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

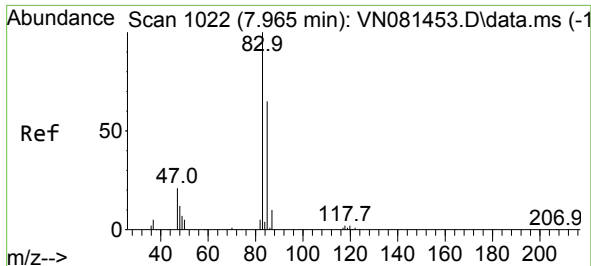
Tgt Ion: 63 Resp: 4986
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.6#
100 0.0 1.9 5.7#



#27
cis-1,2-Dichloroethene
Concen: 1.808 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 96 Resp: 11918
Ion Ratio Lower Upper
96 100
61 111.7 0.0 325.4
98 56.6 0.0 130.4

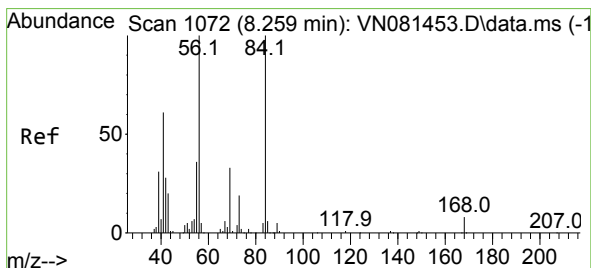
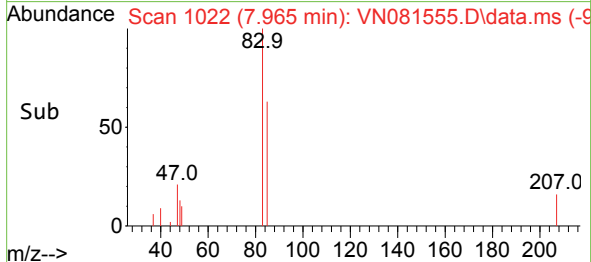
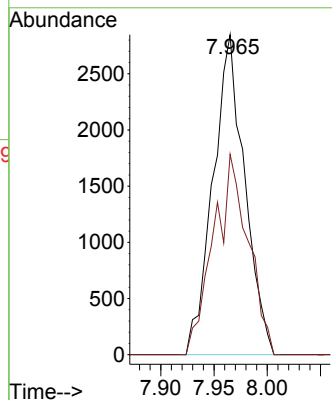
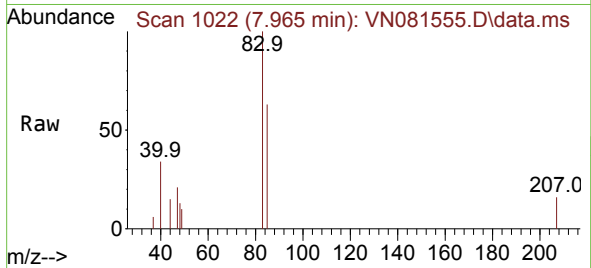




#30
Chloroform
Concen: 0.538 ug/l
RT: 7.965 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

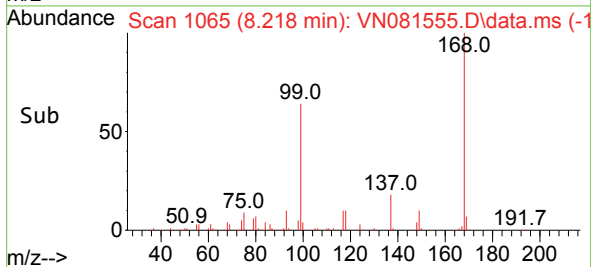
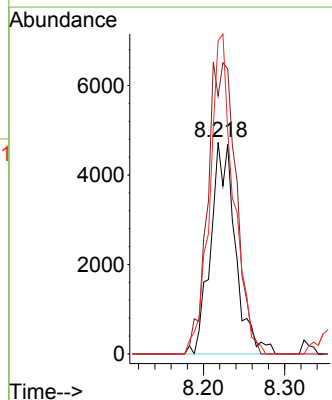
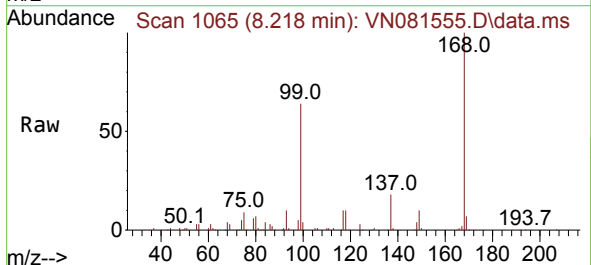
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

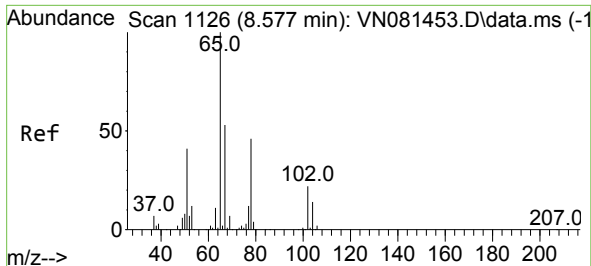
Tgt Ion: 83 Resp: 5875
Ion Ratio Lower Upper
83 100
85 62.6 51.0 76.6



#31
Cyclohexane
Concen: 1.088 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 56 Resp: 10003
Ion Ratio Lower Upper
56 100
69 121.9 20.1 30.1#
84 148.1 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 49.688 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

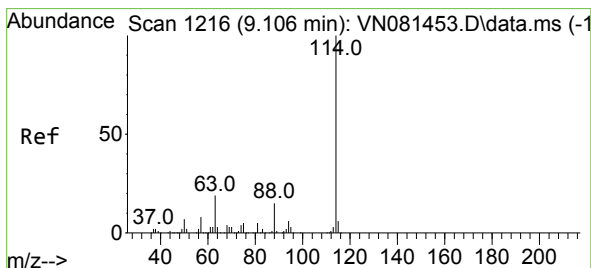
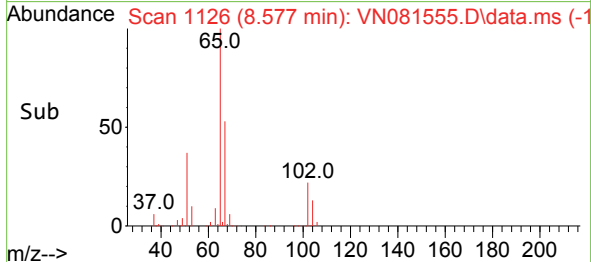
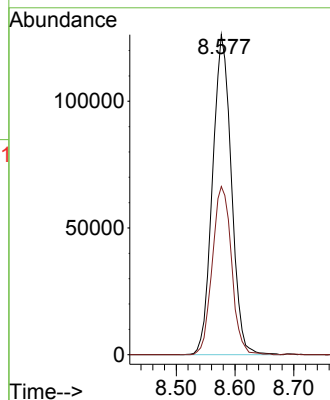
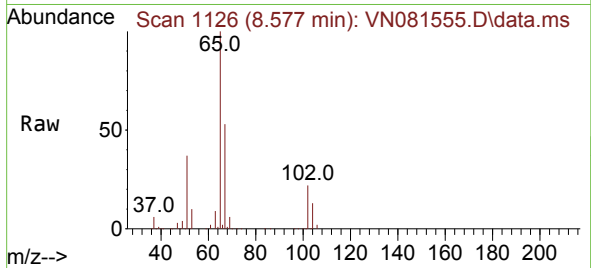
RE137-SP100-20240321

Tgt Ion: 65 Resp: 280620

Ion Ratio Lower Upper

65 100

67 53.6 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

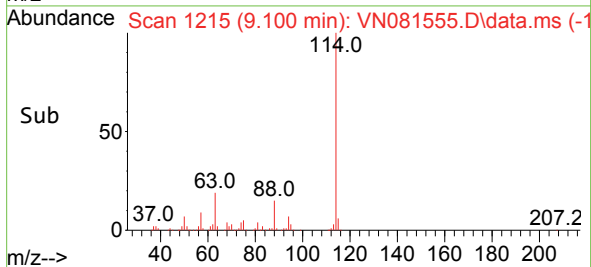
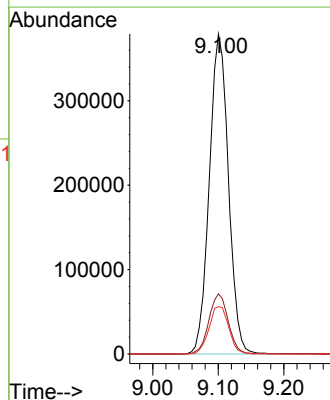
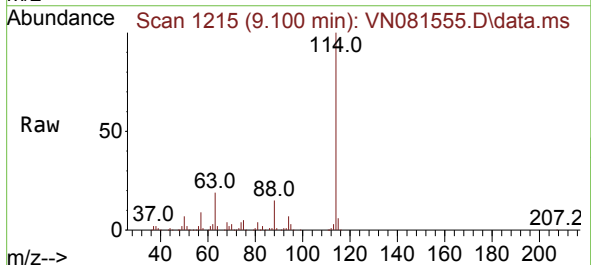
Tgt Ion: 114 Resp: 768966

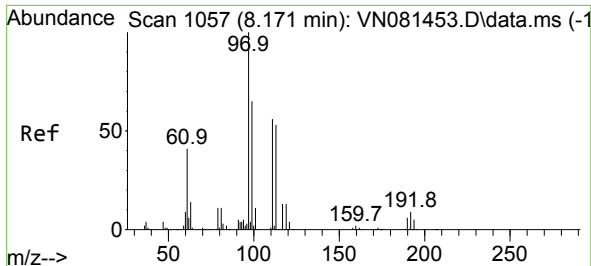
Ion Ratio Lower Upper

114 100

63 18.8 0.0 48.0

88 14.8 0.0 34.8

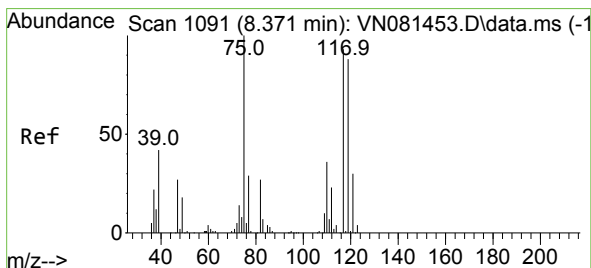
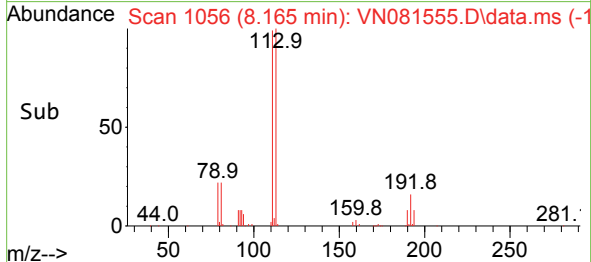
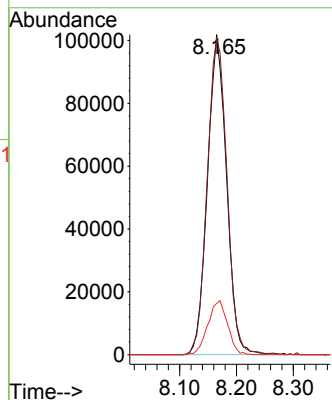
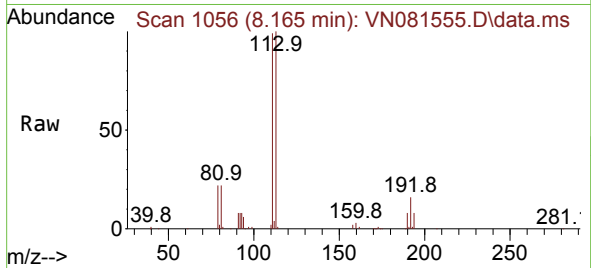




#35
Dibromofluoromethane
Concen: 48.800 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

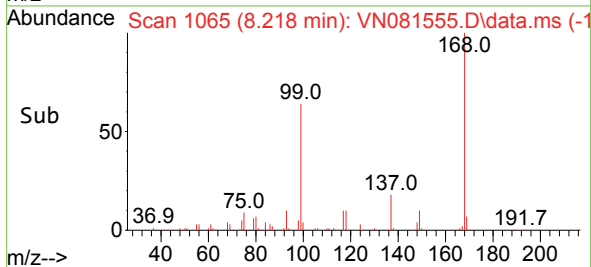
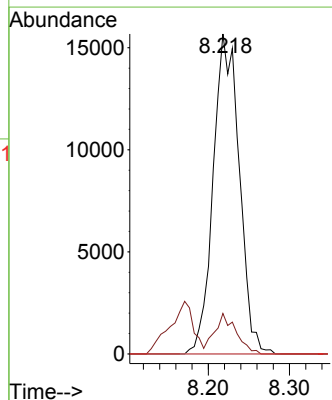
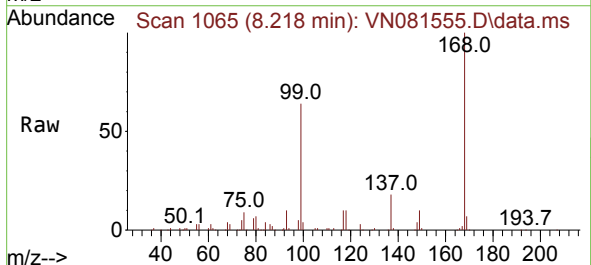
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

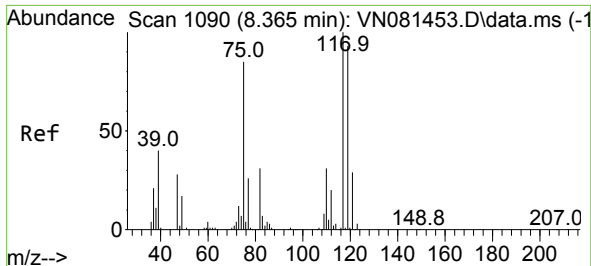
Tgt Ion:113 Resp: 236826
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.4
192 17.5 12.5 18.7



#36
1,1-Dichloropropene
Concen: 4.286 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

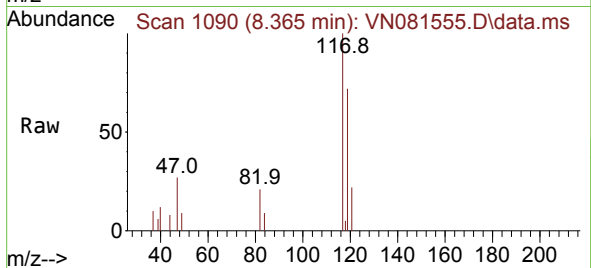
Tgt Ion: 75 Resp: 35004
Ion Ratio Lower Upper
75 100
110 10.4 16.0 48.0#
77 0.0 25.8 38.6#



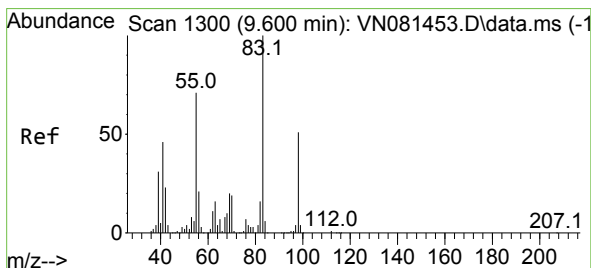
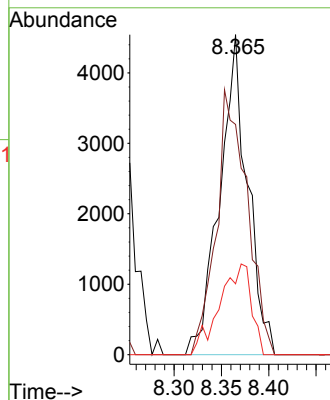
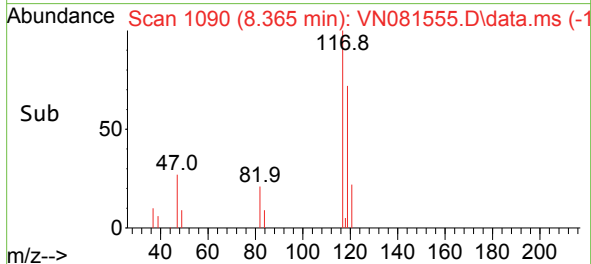


#38
Carbon Tetrachloride
Concen: 1.039 ug/l
RT: 8.365 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

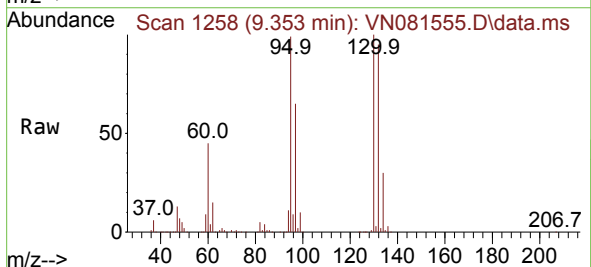
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321



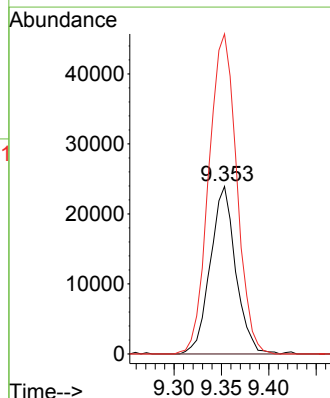
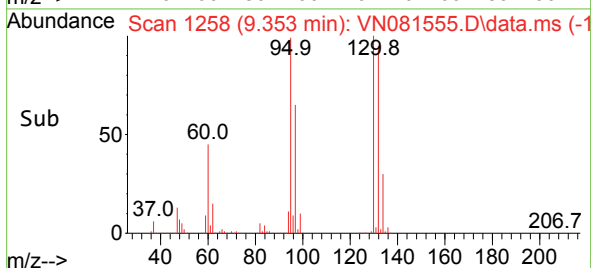
Tgt Ion:117 Resp: 9293
Ion Ratio Lower Upper
117 100
119 72.0 73.4 110.2#
121 22.1 24.4 36.6#

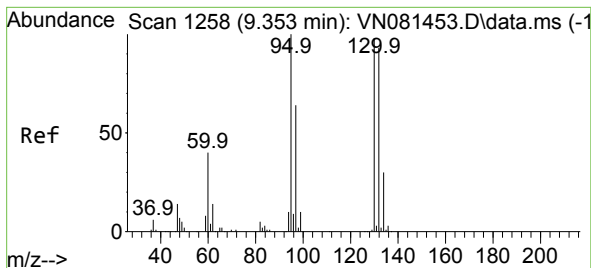


#39
Methylcyclohexane
Concen: 4.898 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.247 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32



Tgt Ion: 83 Resp: 44675
Ion Ratio Lower Upper
83 100
55 0.0 65.7 98.5#
98 191.0 33.8 50.6#





#44

Trichloroethene

Concen: 548.881 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

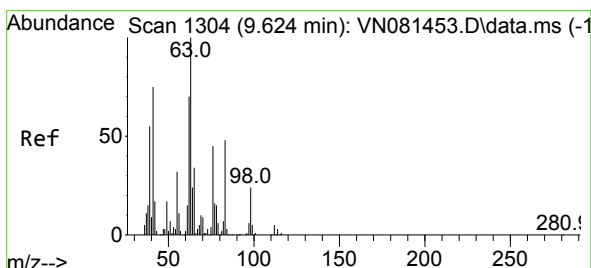
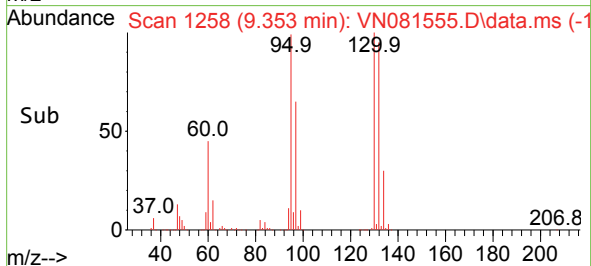
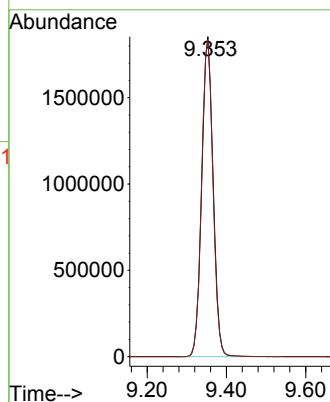
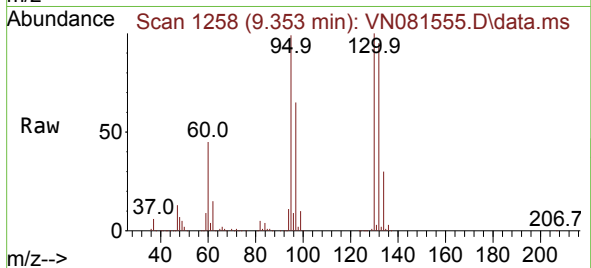
RE137-SP100-20240321

Tgt Ion:130 Resp: 3685936

Ion Ratio Lower Upper

130 100

95 99.0 0.0 210.4



#45

1,2-Dichloropropane

Concen: 1.933 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.270 min

Lab File: VN081555.D

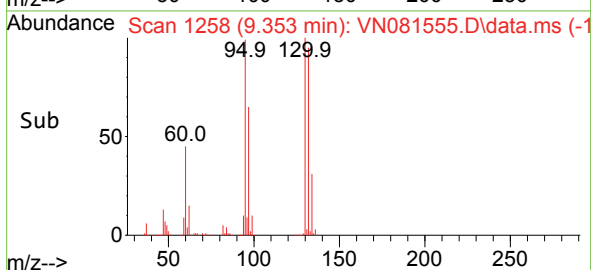
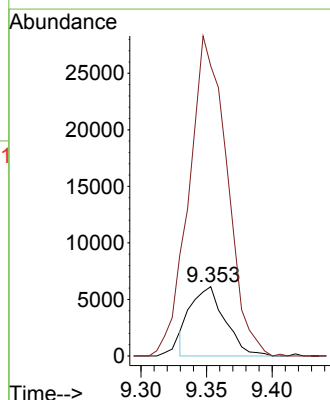
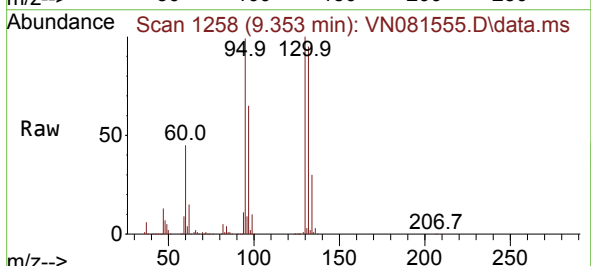
Acq: 25 Mar 2024 12:32

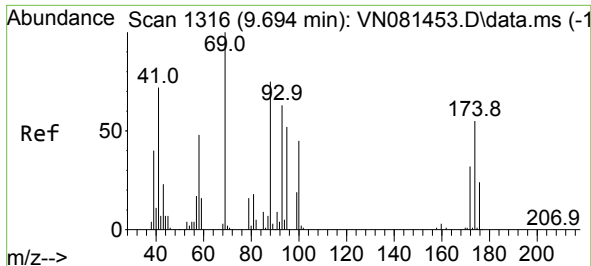
Tgt Ion: 63 Resp: 11183

Ion Ratio Lower Upper

63 100

65 415.5 26.1 39.1#





#49

1,4-Dioxane

Concen: 14.608 ug/l

RT: 9.700 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081555.D

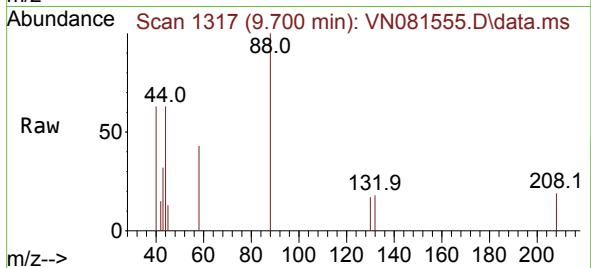
Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

RE137-SP100-20240321



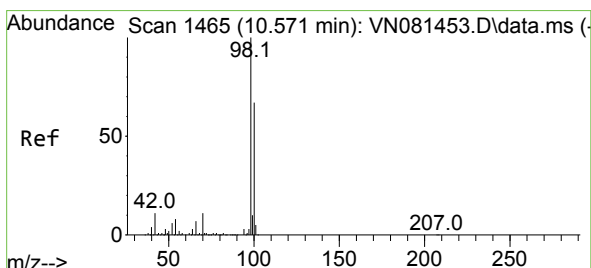
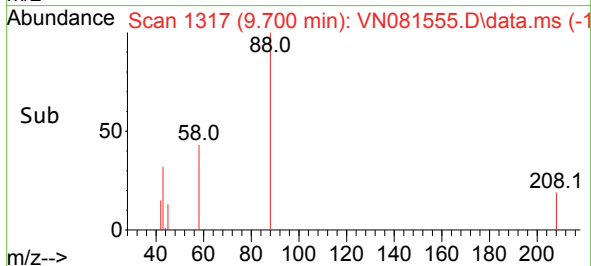
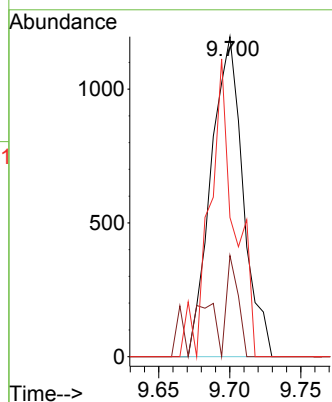
Tgt Ion: 88 Resp: 1877

Ion Ratio Lower Upper

88 100

43 11.4 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 52.511 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN081555.D

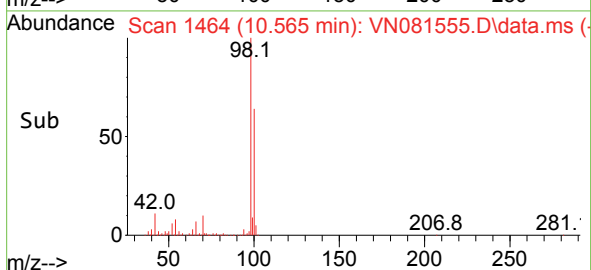
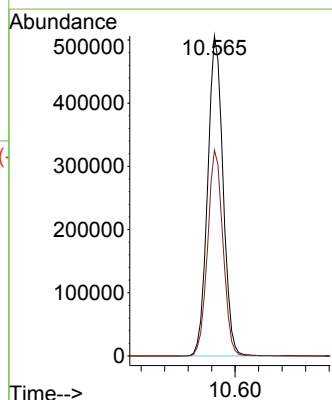
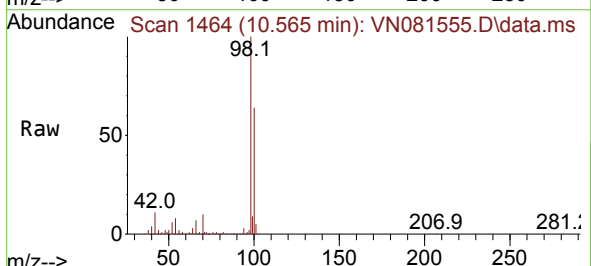
Acq: 25 Mar 2024 12:32

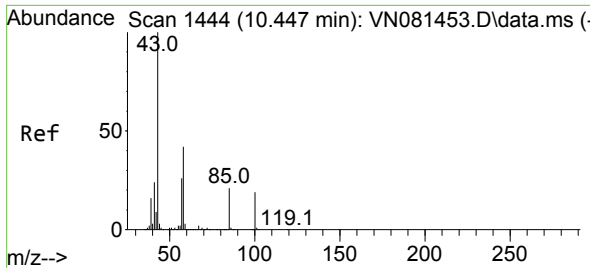
Tgt Ion: 98 Resp: 921197

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.0

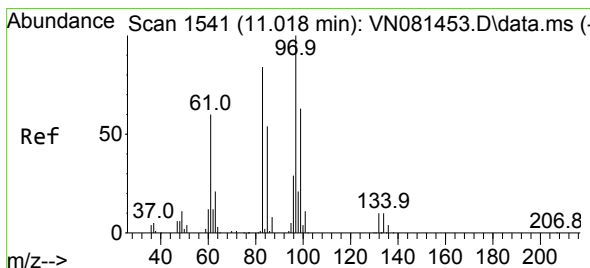
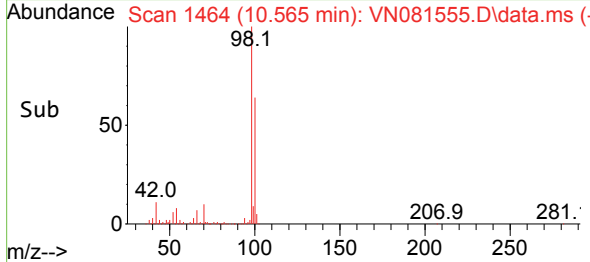
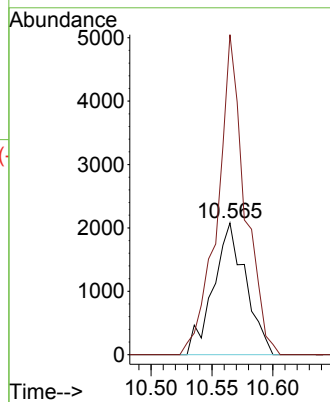
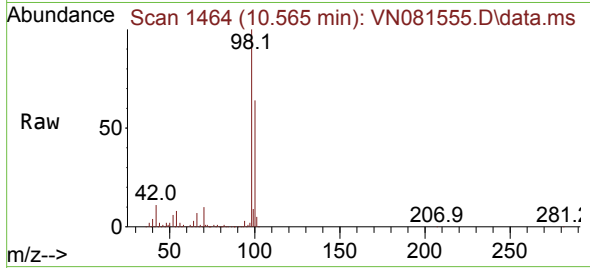




#51
4-Methyl-2-Pentanone
Concen: 0.542 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.118 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

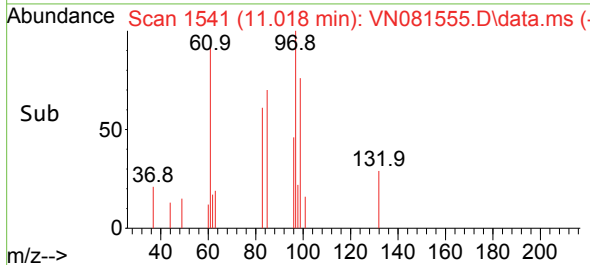
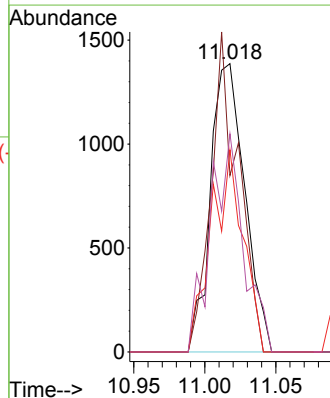
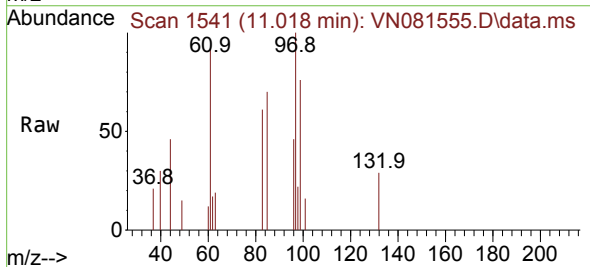
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

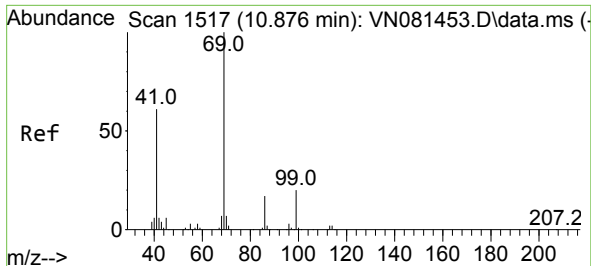
Tgt Ion: 43 Resp: 3832
Ion Ratio Lower Upper
43 100
58 207.7 29.4 44.0#



#55
1,1,2-Trichloroethane
Concen: 0.383 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 97 Resp: 2338
Ion Ratio Lower Upper
97 100
83 61.2 72.9 109.3#
85 70.2 50.2 75.2
99 75.7 49.6 74.4#

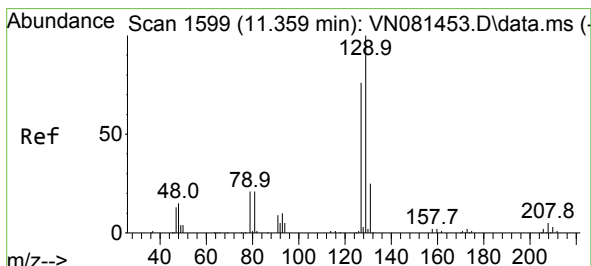
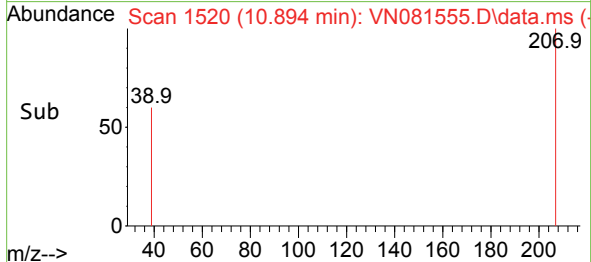
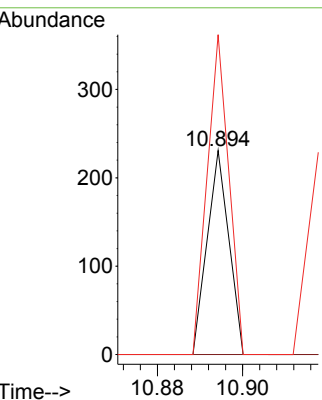
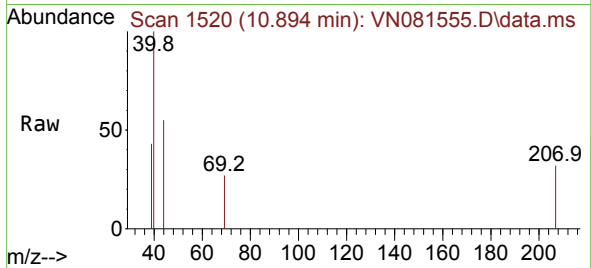




#56
Ethyl methacrylate
Concen: 0.580 ug/l
RT: 10.894 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

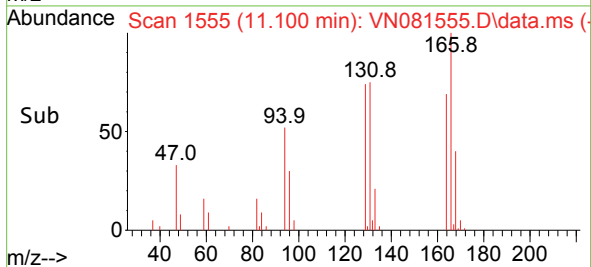
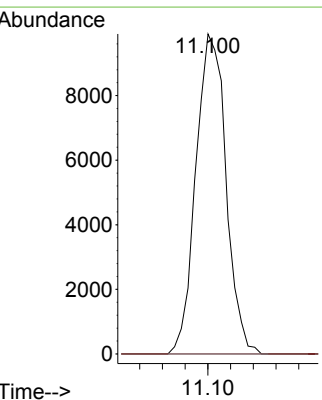
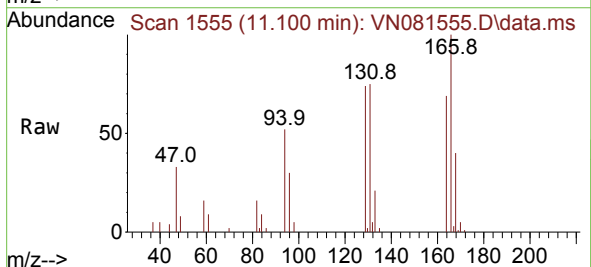
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

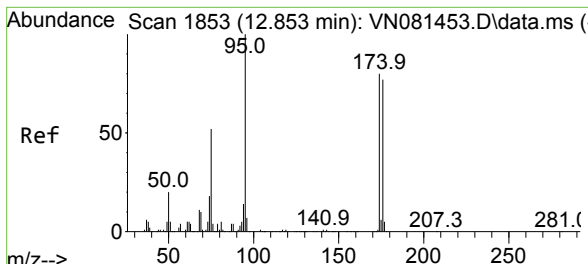
Tgt Ion: 69 Resp: 82
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 156.1 31.8 47.6#



#60
Dibromochloromethane
Concen: 2.719 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.259 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion: 129 Resp: 18265
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.2#

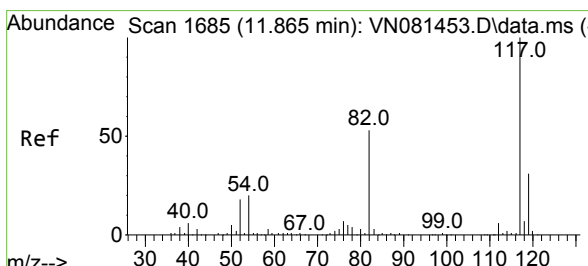
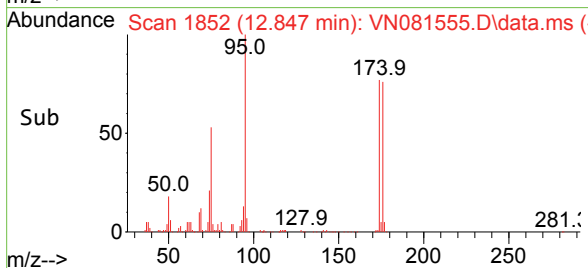
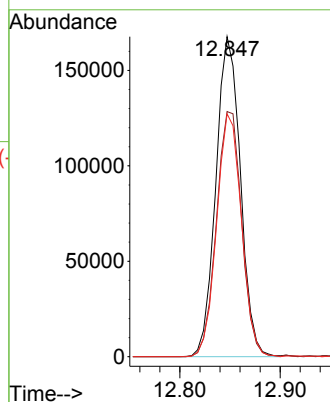
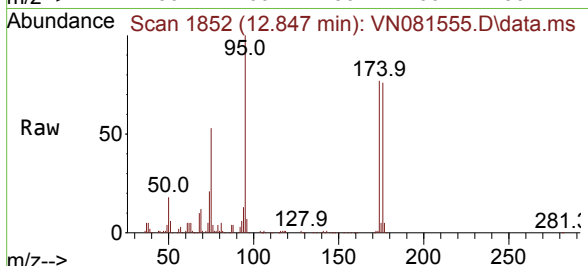




#62
4-Bromofluorobenzene
Concen: 46.101 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

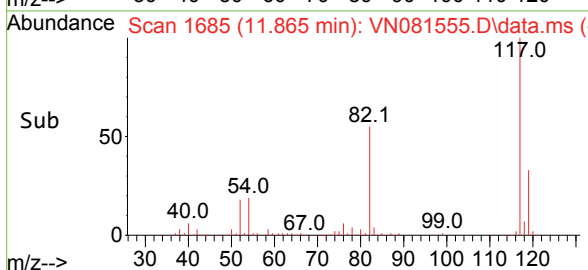
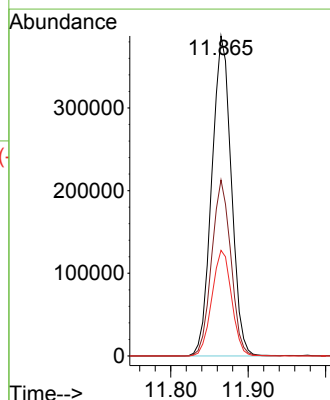
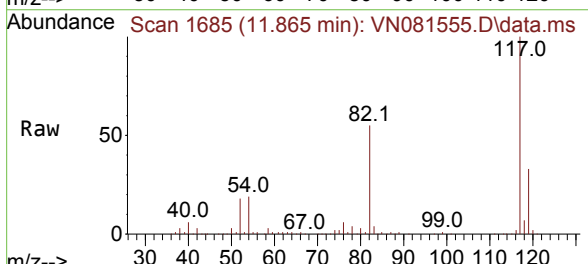
Instrument : MSVOA_N
ClientSampleId : RE137-SP100-20240321

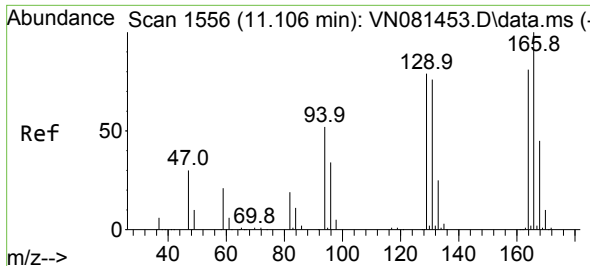
Tgt Ion:	95	Resp:	284970
Ion	Ratio	Lower	Upper
95	100		
174	78.7	0.0	120.4
176	76.7	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion:	117	Resp:	676316
Ion	Ratio	Lower	Upper
117	100		
82	55.0	52.7	79.1
119	33.0	25.3	37.9

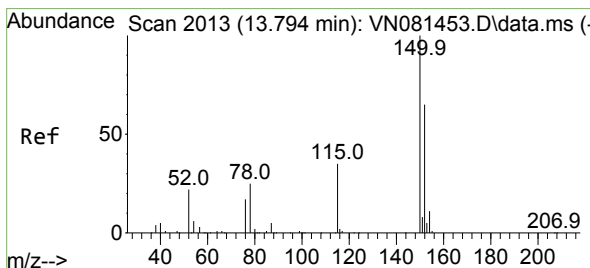
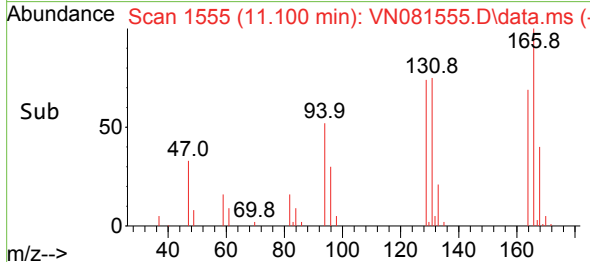
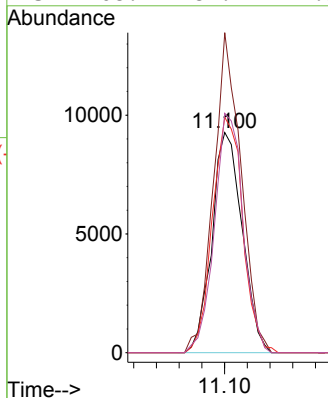
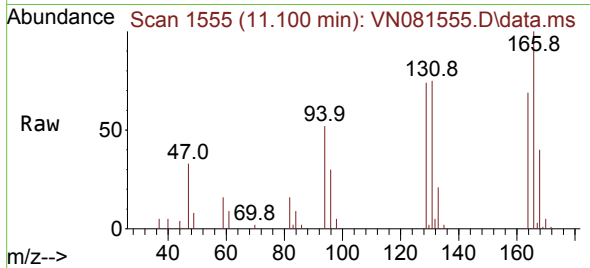




#64
Tetrachloroethene
Concen: 2.649 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

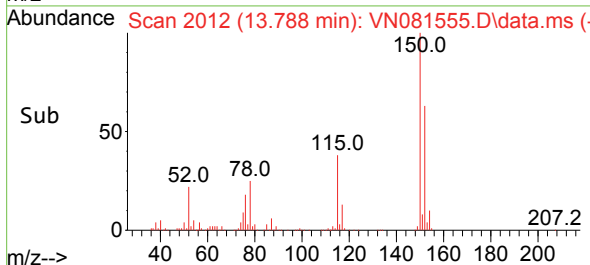
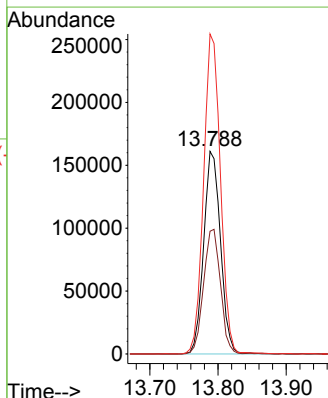
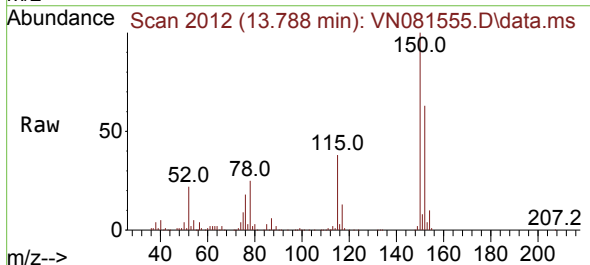
Instrument :
MSVOA_N
ClientSampleId :
RE137-SP100-20240321

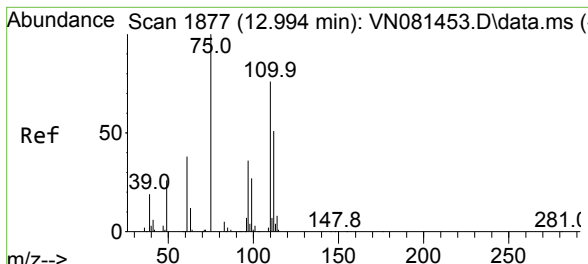
Tgt Ion:164 Resp: 17123
Ion Ratio Lower Upper
164 100
166 145.3 105.8 158.6
129 106.9 89.6 134.4
131 108.7 84.9 127.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN081555.D
Acq: 25 Mar 2024 12:32

Tgt Ion:152 Resp: 276970
Ion Ratio Lower Upper
152 100
115 61.6 32.3 96.8
150 158.0 0.0 339.8

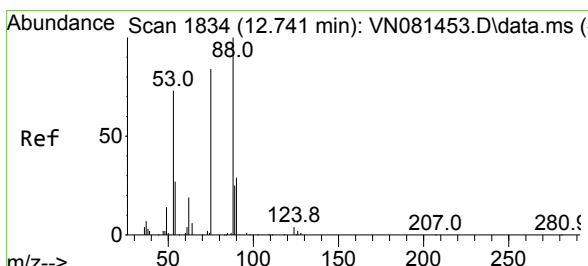
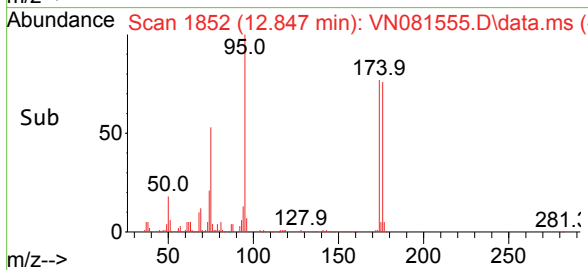
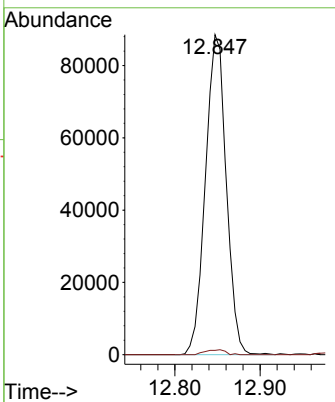
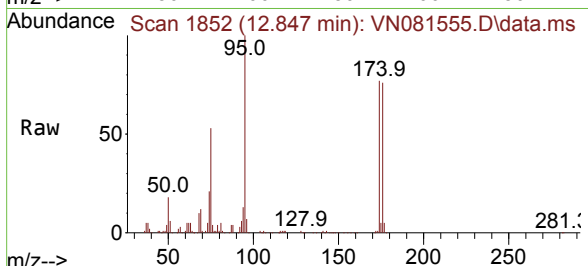




#76
 1,2,3-Trichloropropane
 Concen: 22.695 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN081555.D
 Acq: 25 Mar 2024 12:32

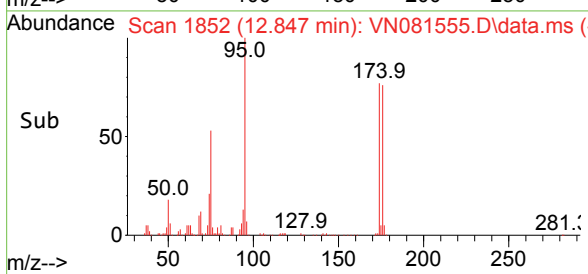
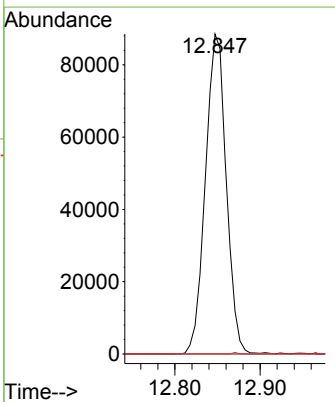
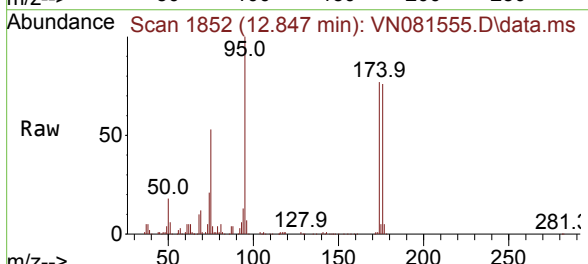
Instrument : MSVOA_N
 ClientSampleId : RE137-SP100-20240321

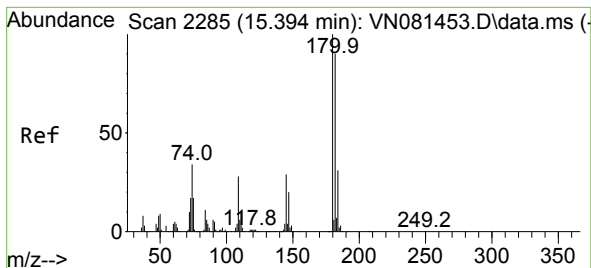
Tgt Ion: 75 Resp: 150360
 Ion Ratio Lower Upper
 75 100
 77 1.5 91.0 272.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.329 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.106 min
 Lab File: VN081555.D
 Acq: 25 Mar 2024 12:32

Tgt Ion: 75 Resp: 150360
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.0 33.4 50.0#





#93

1,2,4-Trichlorobenzene

Concen: 0.302 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

RE137-SP100-20240321

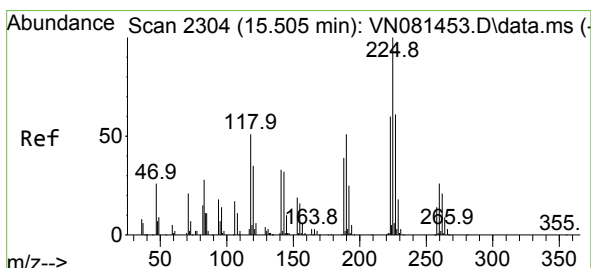
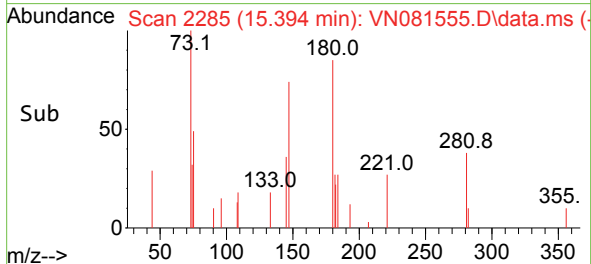
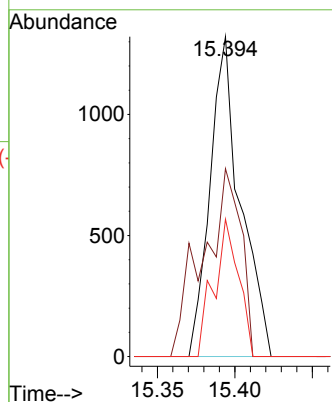
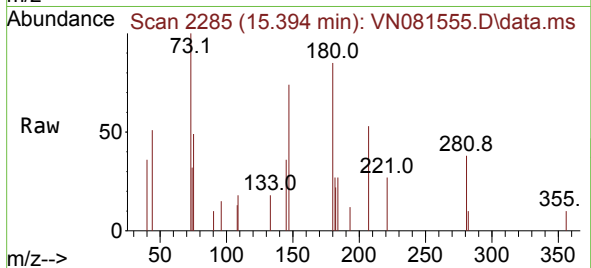
Tgt Ion:180 Resp: 1800

Ion Ratio Lower Upper

180 100

182 73.1 46.6 139.7

145 34.8 16.8 50.3



#94

Hexachlorobutadiene

Concen: 0.358 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. 0.000 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

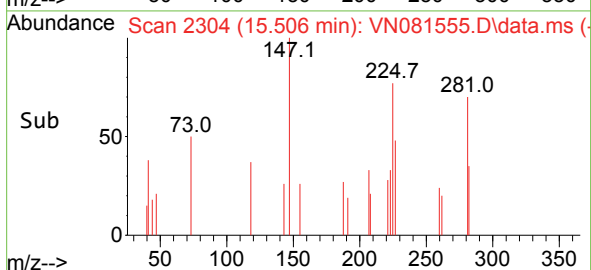
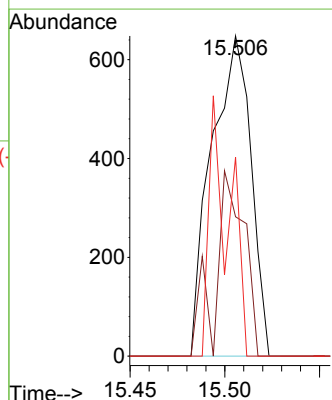
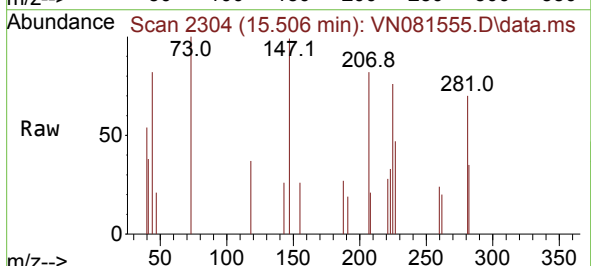
Tgt Ion:225 Resp: 938

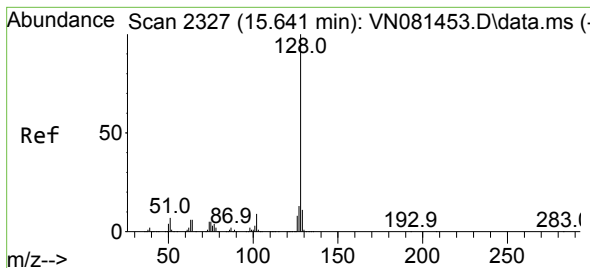
Ion Ratio Lower Upper

225 100

223 42.4 33.3 99.8

227 41.3 33.1 99.2





#95

Naphthalene

Concen: 0.262 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

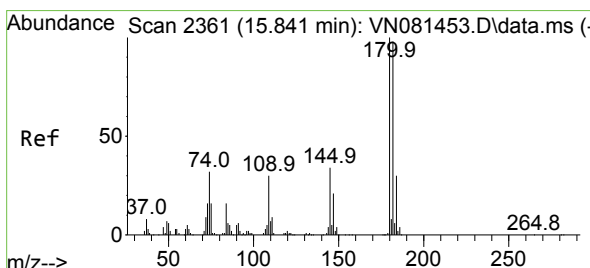
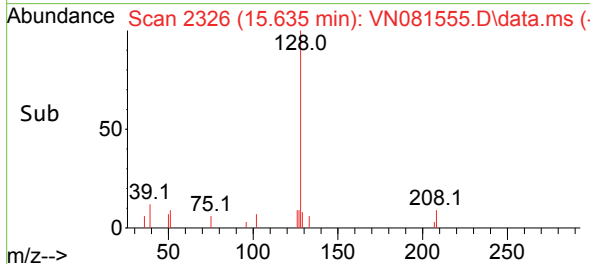
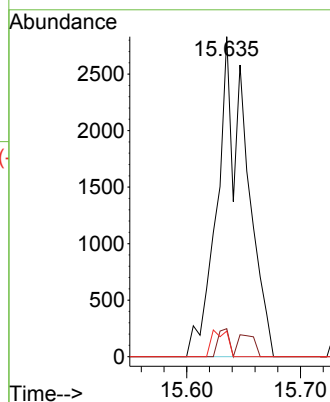
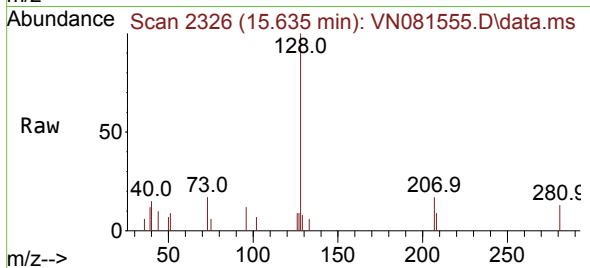
Instrument :

MSVOA_N

ClientSampleId :

RE137-SP100-20240321

Tgt Ion:	128	Resp:	5053
Ion Ratio	Lower	Upper	
128	100		
127	3.3	10.0	15.0#
129	4.5	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.275 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN081555.D

Acq: 25 Mar 2024 12:32

Tgt Ion:	180	Resp:	1651
Ion Ratio	Lower	Upper	
180	100		
182	96.4	46.5	139.3
145	16.4	17.8	53.4#

