

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020724\
 Data File : VN080935.D
 Acq On : 07 Feb 2024 14:27
 Operator : JC\MD
 Sample : P1362-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

Quant Time: Feb 08 00:25:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N020624W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 07 06:22:23 2024
 Response via : Initial Calibration

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

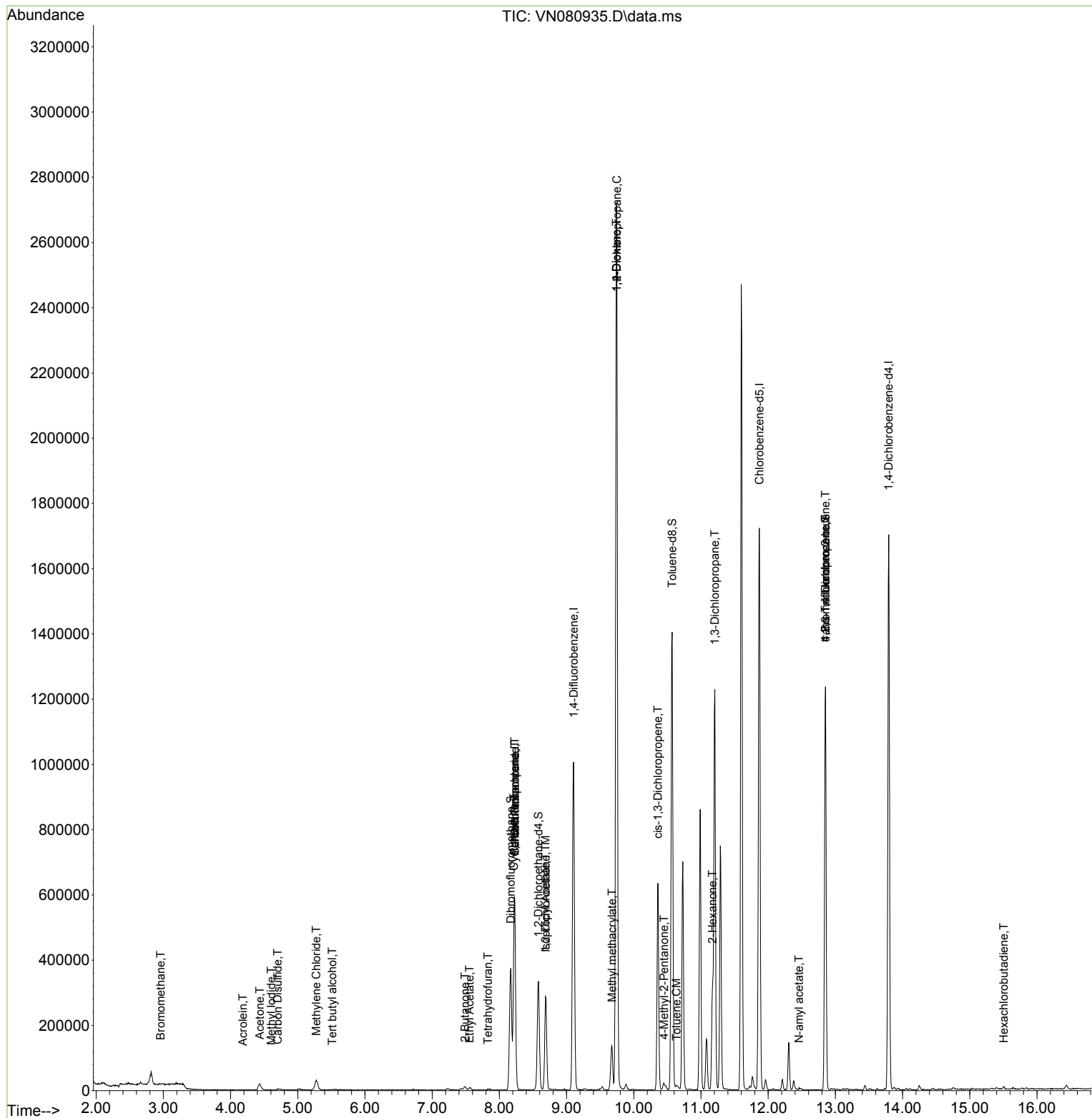
Internal Standards						
1) Pentafluorobenzene	8.230	168	460712	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.106	114	931692	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1055888	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	464008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	269830	46.427	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.860%
35) Dibromofluoromethane	8.171	113	268277	53.661	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.320%
50) Toluene-d8	10.571	98	995436	55.047	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	110.100%
62) 4-Bromofluorobenzene	12.853	95	418045	63.636	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	127.280%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	4690	Below Cal	#	76
5) Bromomethane	2.959	94	981	0.224	ug/l	# 6
10) Methyl Iodide	4.606	142	1716	0.353	ug/l	# 63
11) Tert butyl alcohol	5.512	59	727	0.908	ug/l	# 62
13) Acrolein	4.183	56	525	0.520	ug/l	# 83
16) Acetone	4.436	43	34457	18.020	ug/l	# 81
17) Carbon Disulfide	4.700	76	2673	0.215	ug/l	# 78
18) Methyl Acetate	5.012	43	2844	Below Cal	#	23
20) Methylene Chloride	5.277	84	24190	4.176	ug/l	# 76
25) 2-Butanone	7.488	43	15121	4.927	ug/l	# 87
29) Tetrahydrofuran	7.830	42	863	0.460	ug/l	# 38
31) Cyclohexane	8.218	56	10595	1.334	ug/l	# 1
36) 1,1-Dichloropropene	8.230	75	34232	4.603	ug/l	# 52
37) Ethyl Acetate	7.559	43	11287	2.006	ug/l	# 99
38) Carbon Tetrachloride	8.230	117	45607	5.982	ug/l	# 19
42) 1,2-Dichloroethane	8.688	62	1943	0.246	ug/l	# 75
43) Isopropyl Acetate	8.688	43	308689	29.829	ug/l	# 93
45) 1,2-Dichloropropane	9.747	63	3674	0.601	ug/l	# 42
48) Methyl methacrylate	9.677	41	8655	1.484	ug/l	# 47
49) 1,4-Dioxane	9.741	88	469	4.356	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.453	43	14195	2.276	ug/l	# 99
52) Toluene	10.635	92	4533	0.299	ug/l	# 92
54) cis-1,3-Dichloropropene	10.359	75	118877	12.388	ug/l	# 59
57) 1,3-Dichloropropane	11.206	76	13343	1.403	ug/l	# 43
59) 2-Hexanone	11.171	43	234773	49.668	ug/l	# 26
74) N-amyl acetate	12.459	43	2712	0.208	ug/l	# 50
76) 1,2,3-Trichloropropane	12.853	75	218785	23.125	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	218785	62.829	ug/l	# 14
94) Hexachlorobutadiene	15.506	225	1362	0.409	ug/l	# 91

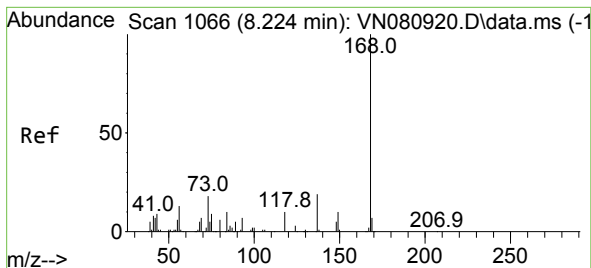
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

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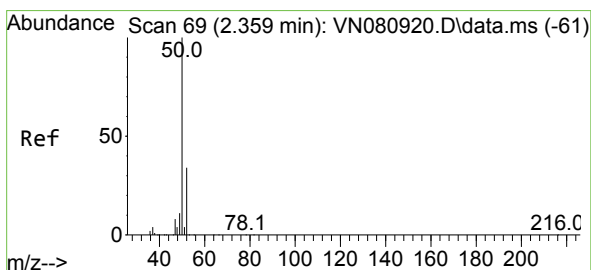
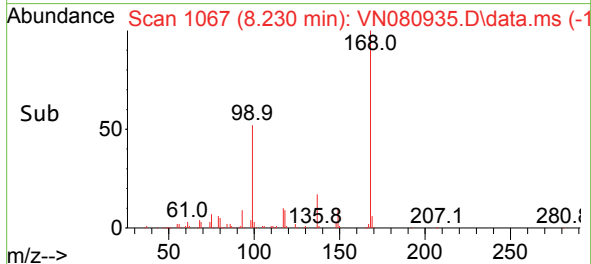
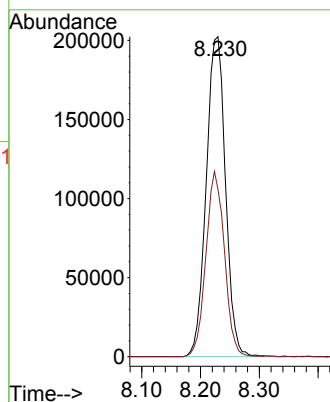
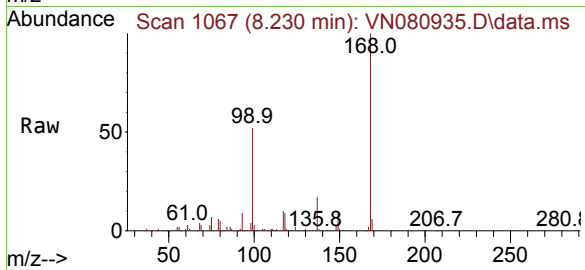
WC-2

Tgt Ion:168 Resp: 460712

Ion Ratio Lower Upper

168 100

99 52.3 59.9 89.9#



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080935.D

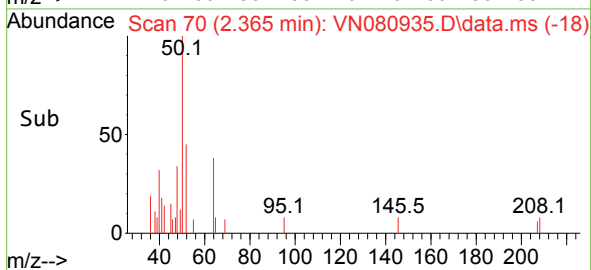
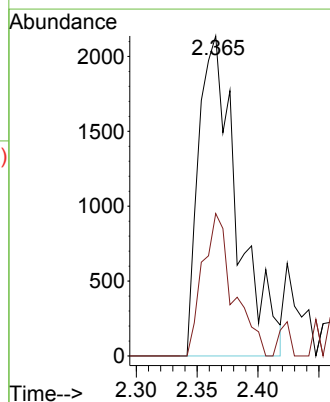
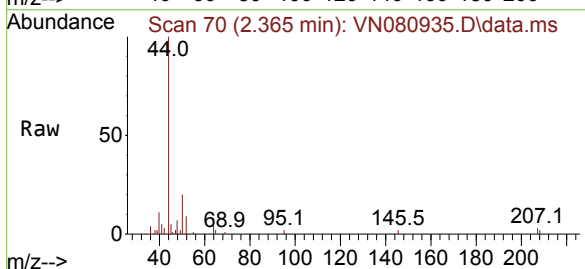
Acq: 07 Feb 2024 14:27

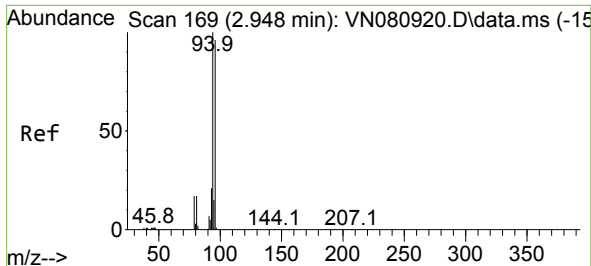
Tgt Ion: 50 Resp: 4690

Ion Ratio Lower Upper

50 100

52 44.5 25.0 37.4#

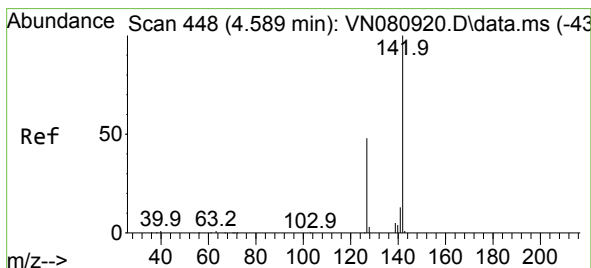
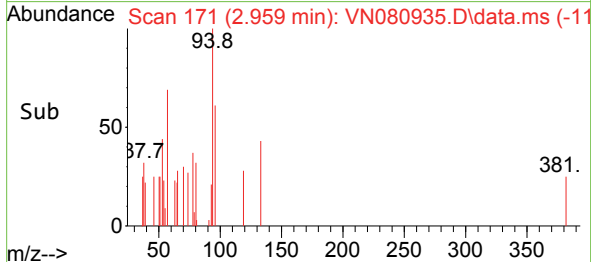
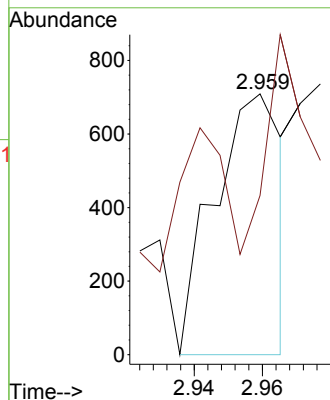
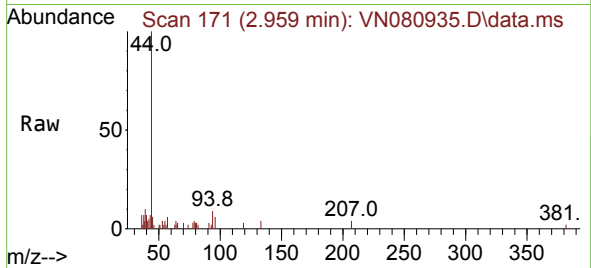




#5
Bromomethane
Concen: 0.224 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

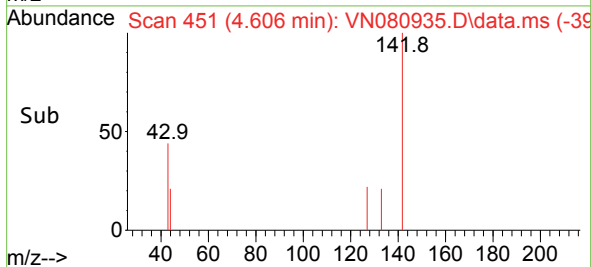
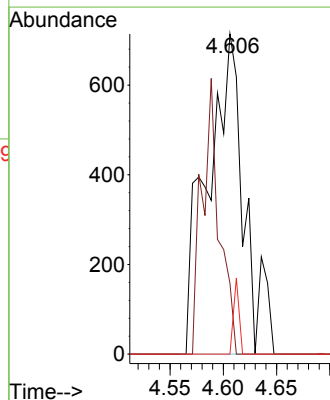
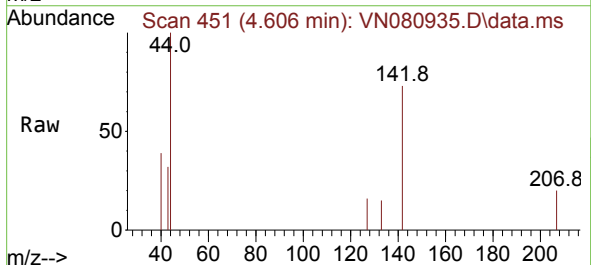
Instrument :
MSVOA_N
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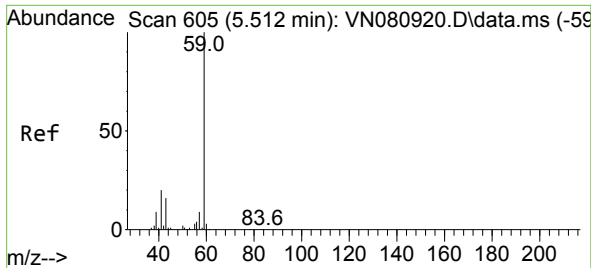
Tgt Ion: 94 Resp: 981
Ion Ratio Lower Upper
94 100
96 0.0 69.2 103.8#



#10
Methyl Iodide
Concen: 0.353 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.018 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 142 Resp: 1716
Ion Ratio Lower Upper
142 100
127 22.1 37.0 55.4#
141 0.0 12.5 18.7#

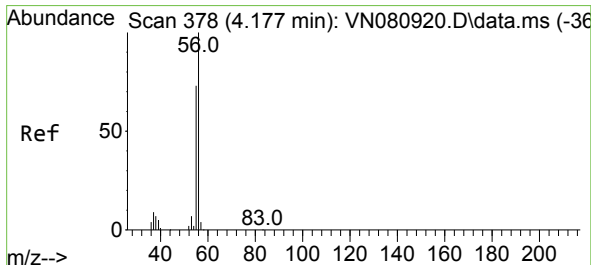
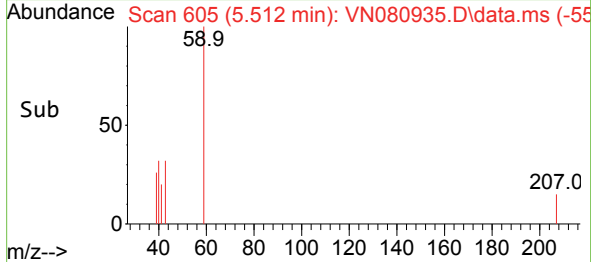
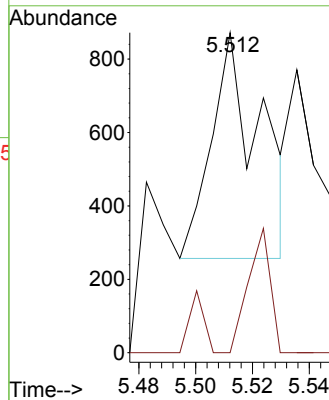
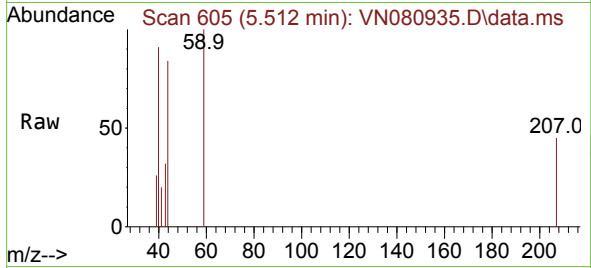




#11
Tert butyl alcohol
Concen: 0.908 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

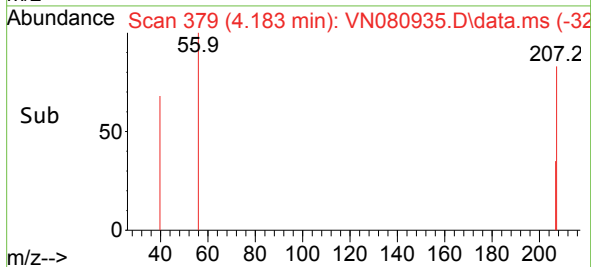
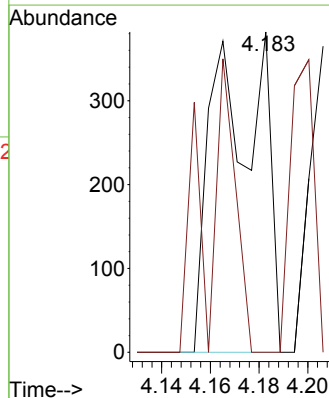
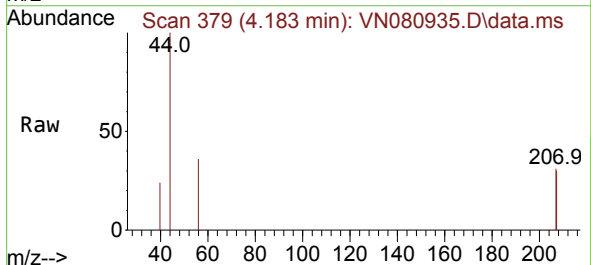
Instrument :
MSVOA_N
ClientSampleId :
WC-2

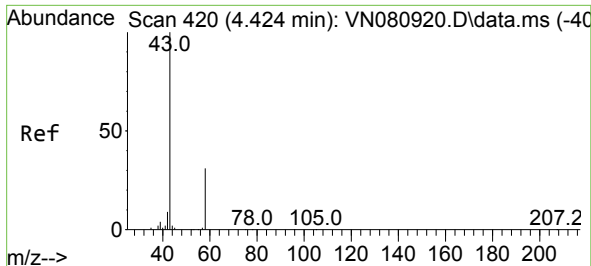
Tgt Ion: 59 Resp: 727
Ion Ratio Lower Upper
59 100
57 25.2 8.6 12.8#



#13
Acrolein
Concen: 0.520 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 56 Resp: 525
Ion Ratio Lower Upper
56 100
55 55.6 55.3 82.9





#16

Acetone

Concen: 18.020 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

ClientSampleId :

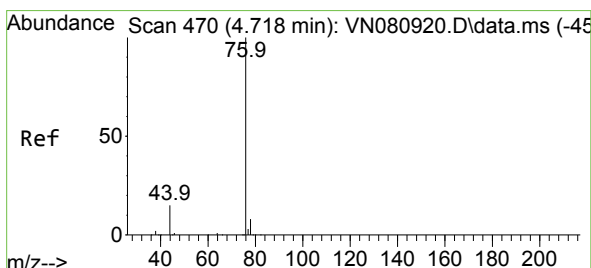
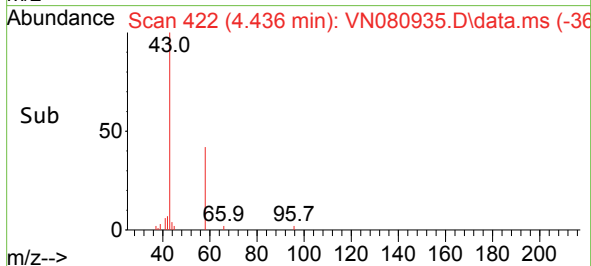
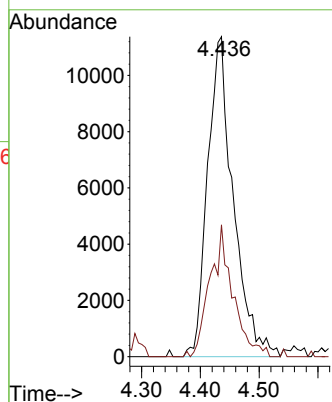
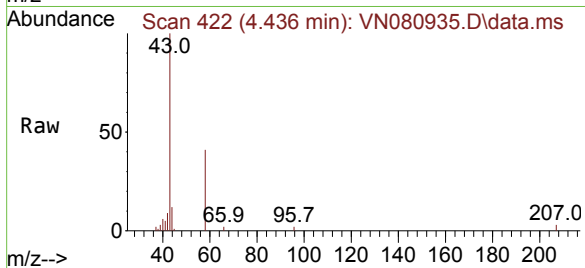
WC-2

Tgt Ion: 43 Resp: 34457

Ion Ratio Lower Upper

43 100

58 41.2 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.215 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.018 min

Lab File: VN080935.D

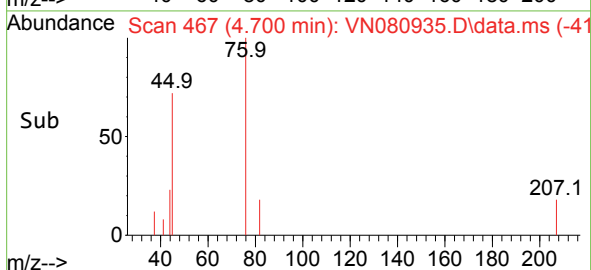
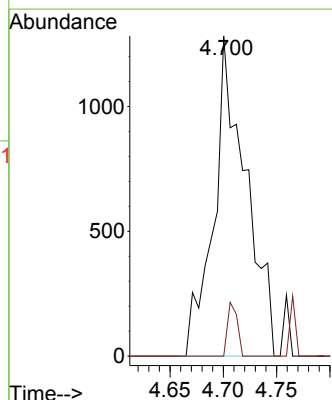
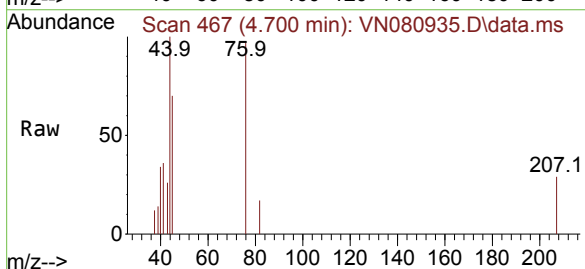
Acq: 07 Feb 2024 14:27

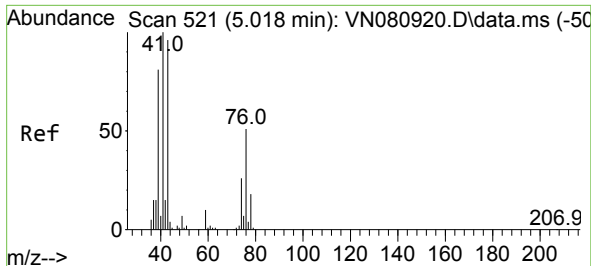
Tgt Ion: 76 Resp: 2673

Ion Ratio Lower Upper

76 100

78 0.0 6.3 9.5#

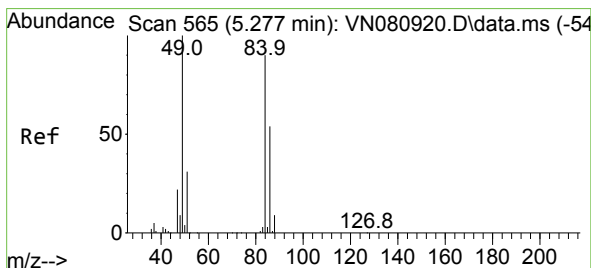
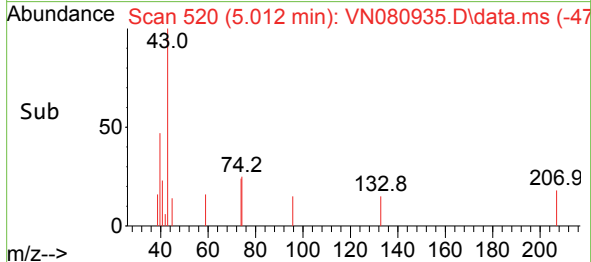
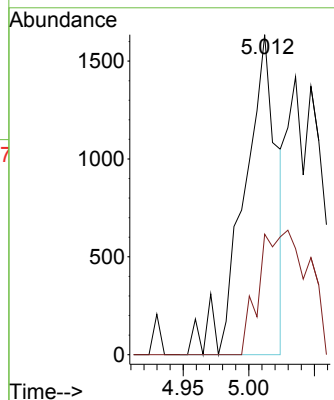
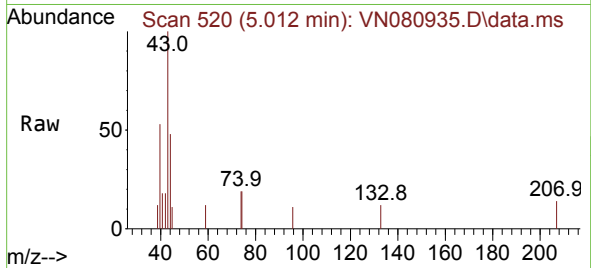




#18
Methyl Acetate
Concen: Below Cal
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

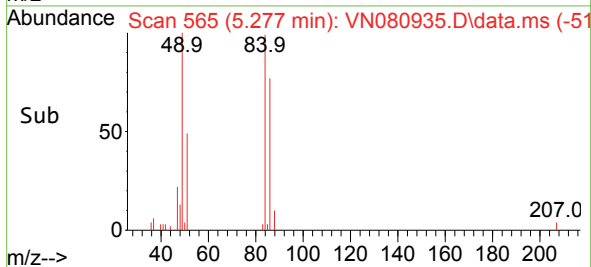
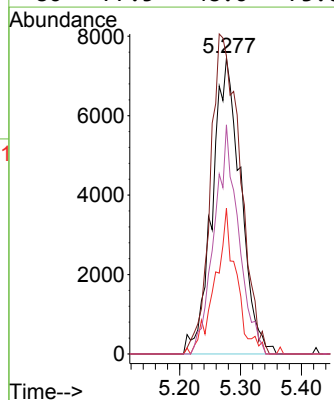
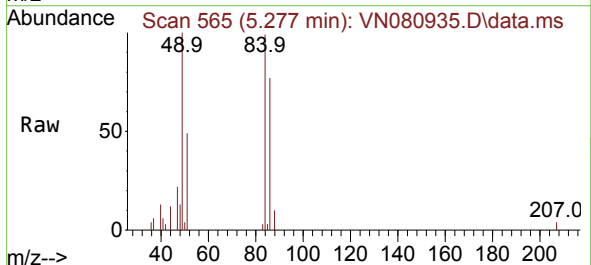
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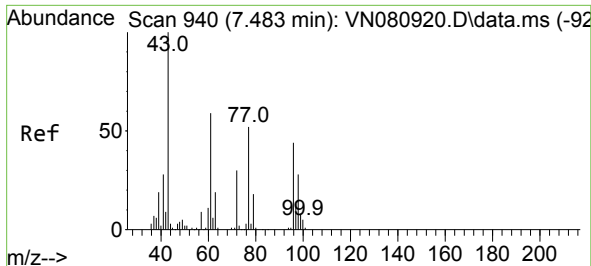
Tgt Ion: 43 Resp: 2844
Ion Ratio Lower Upper
43 100
74 58.1 17.3 25.9#



#20
Methylene Chloride
Concen: 4.176 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 84 Resp: 24190
Ion Ratio Lower Upper
84 100
49 100.6 108.1 162.1#
51 49.3 32.9 49.3
86 77.5 48.6 73.0#

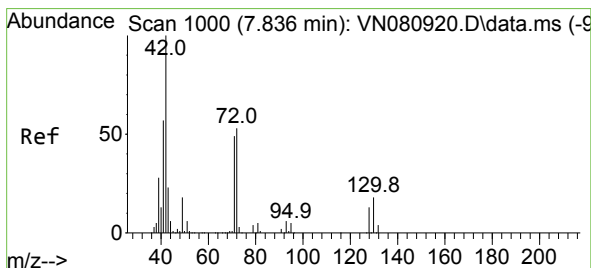
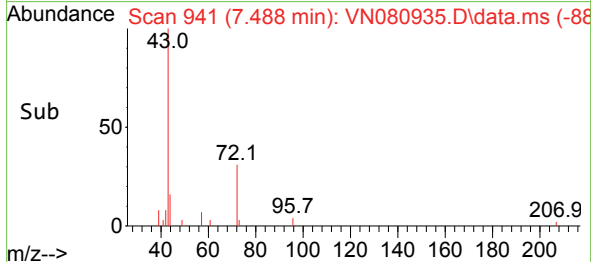
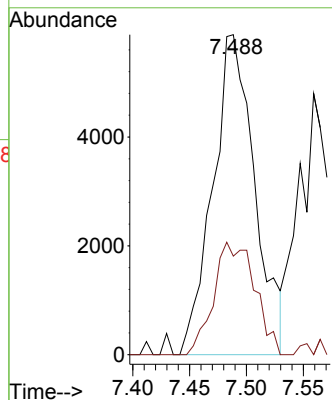
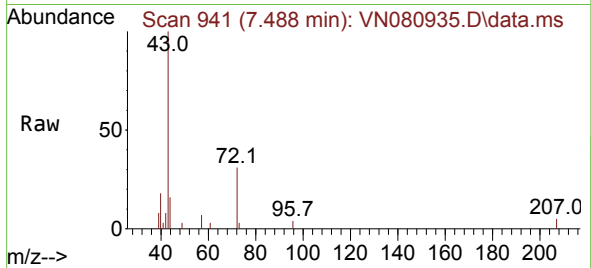




#25
2-Butanone
Concen: 4.927 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

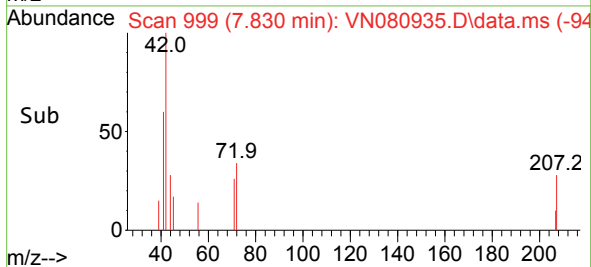
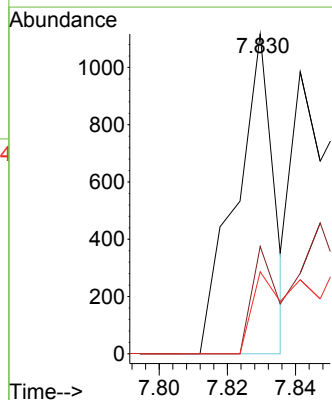
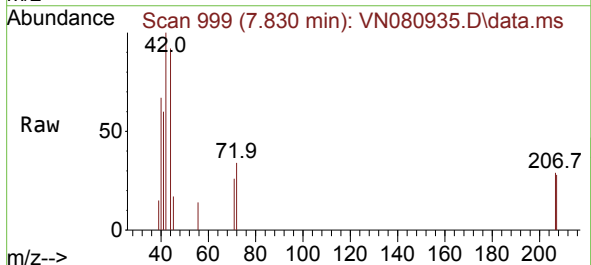
Instrument :
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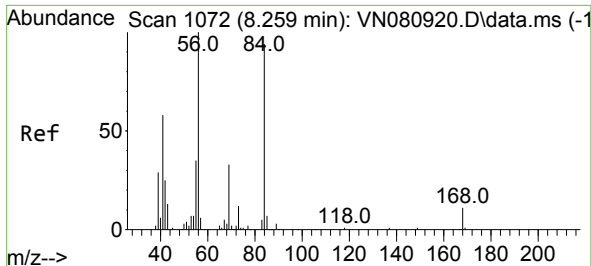
Tgt Ion: 43 Resp: 15121
Ion Ratio Lower Upper
43 100
72 30.8 19.5 29.3#



#29
Tetrahydrofuran
Concen: 0.460 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 42 Resp: 863
Ion Ratio Lower Upper
42 100
72 0.0 31.1 46.7#
71 0.0 28.3 42.5#

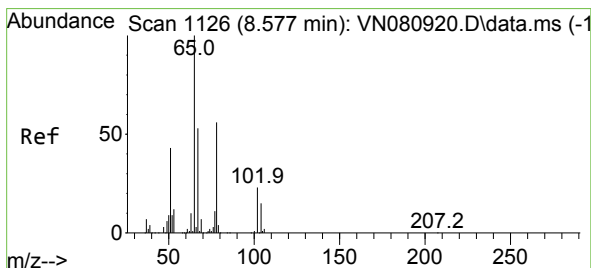
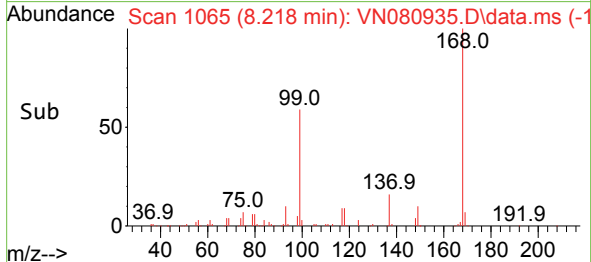
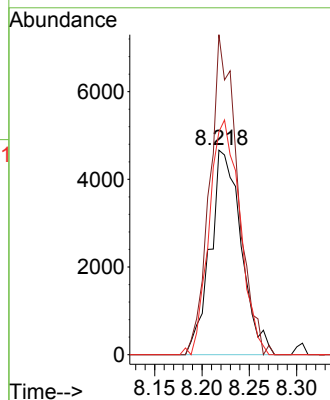
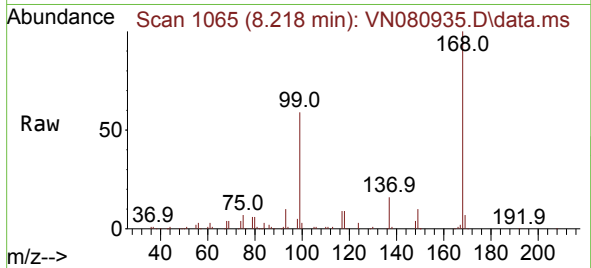




#31
Cyclohexane
Concen: 1.334 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

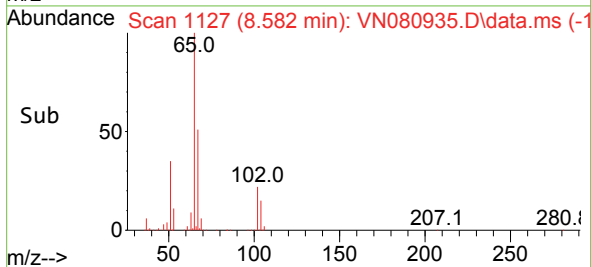
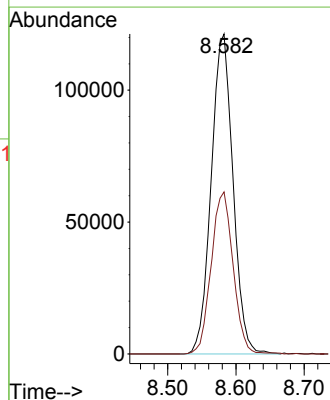
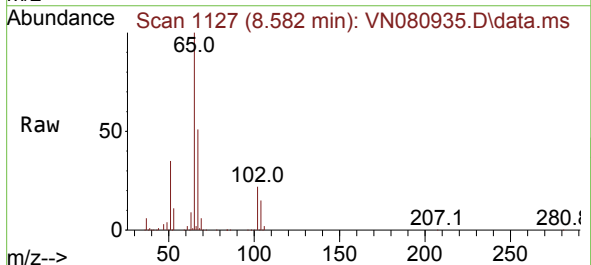
Instrument :
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ClientSampleId :
WC-2

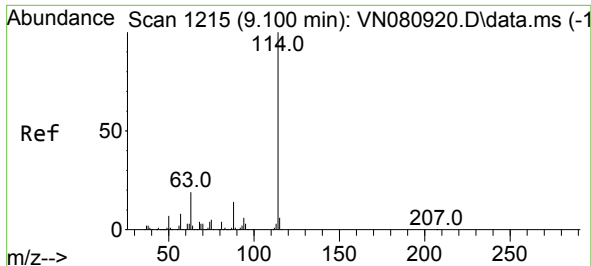
Tgt Ion: 56 Resp: 10595
Ion Ratio Lower Upper
56 100
69 156.5 20.1 30.1#
84 109.0 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 46.427 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 65 Resp: 269830
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

ClientSampleId :

WC-2

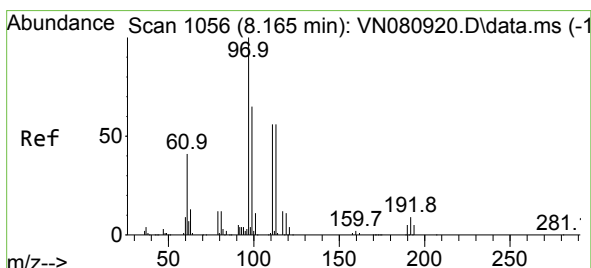
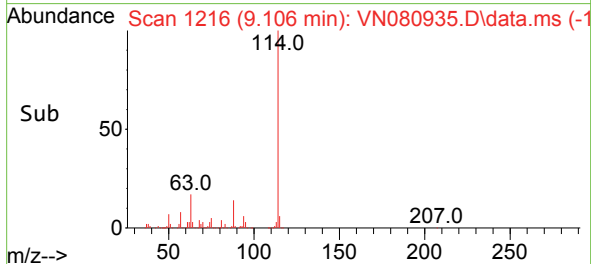
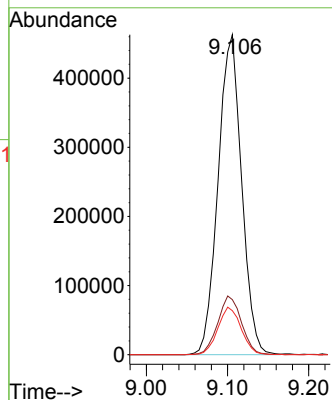
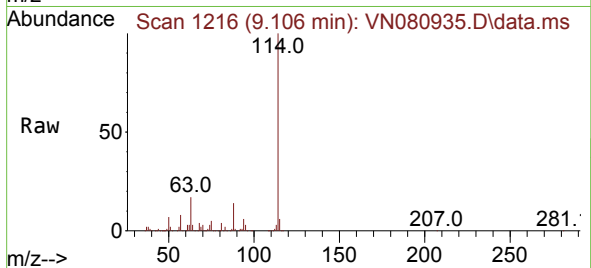
Tgt Ion:114 Resp: 931692

Ion Ratio Lower Upper

114 100

63 17.2 0.0 48.0

88 13.8 0.0 34.8



#35

Dibromofluoromethane

Concen: 53.661 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

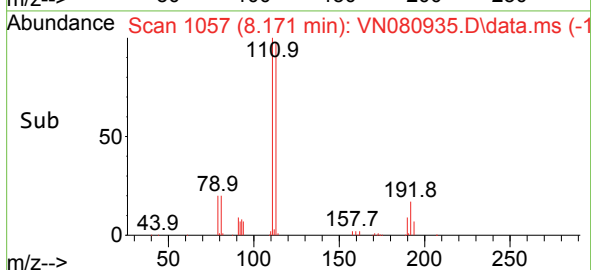
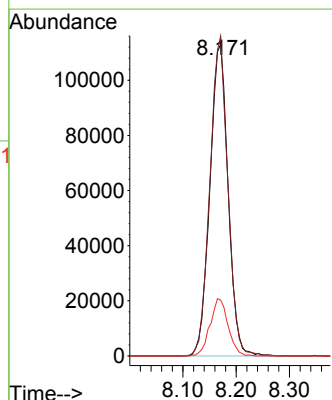
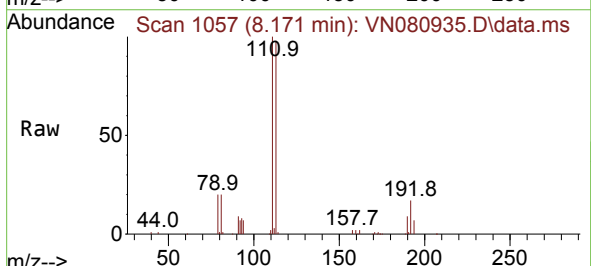
Tgt Ion:113 Resp: 268277

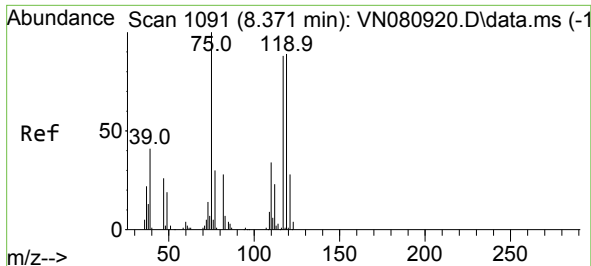
Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.4

192 18.2 12.5 18.7

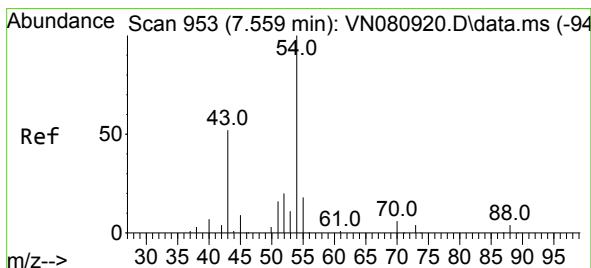
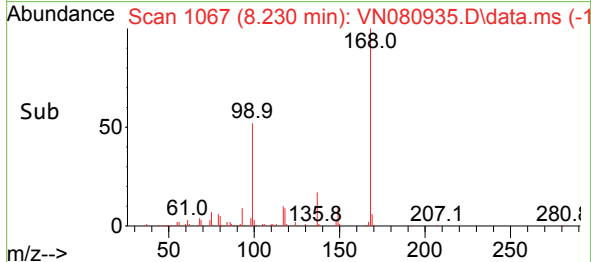
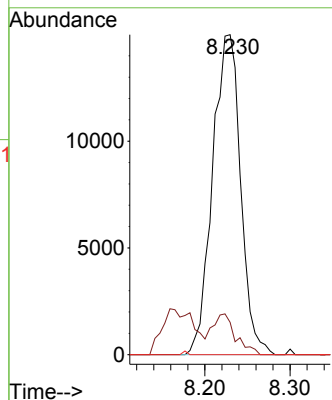
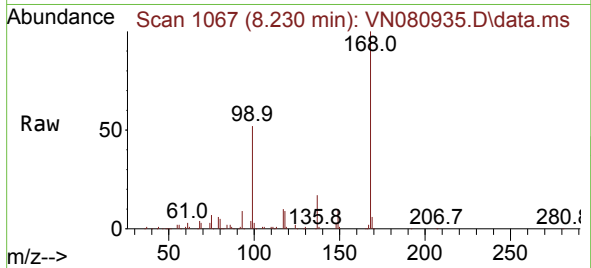




#36
1,1-Dichloropropene
Concen: 4.603 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

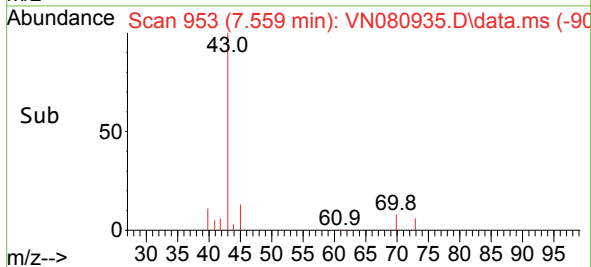
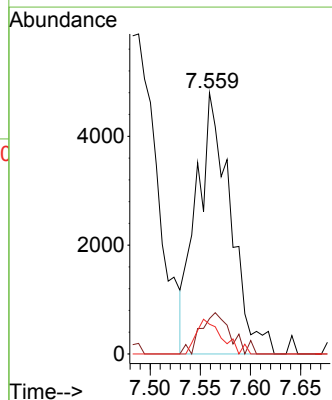
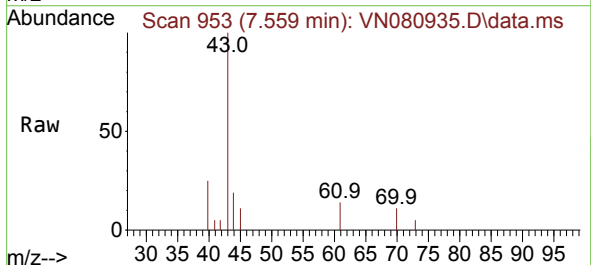
Instrument :
MSVOA_N
ClientSampleId :
WC-2

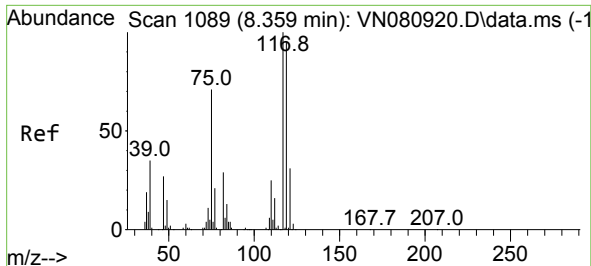
Tgt Ion: 75 Resp: 34232
Ion Ratio Lower Upper
75 100
110 10.6 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 2.006 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 43 Resp: 11287
Ion Ratio Lower Upper
43 100
61 14.0 10.6 15.8
70 10.2 8.0 12.0

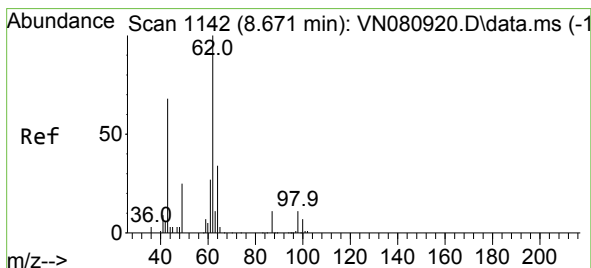
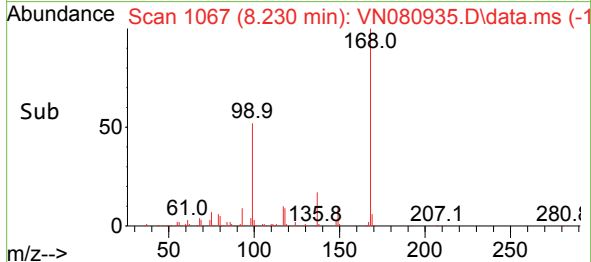
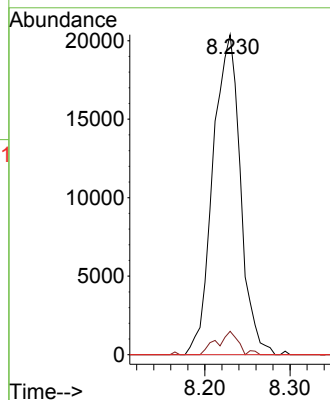
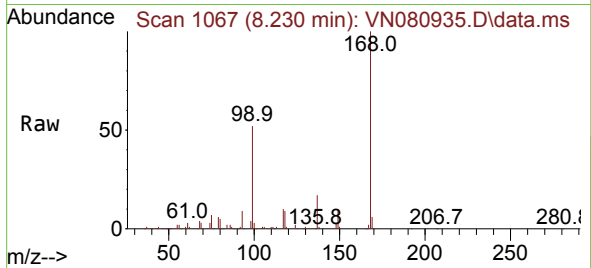




#38
Carbon Tetrachloride
Concen: 5.982 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.130 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

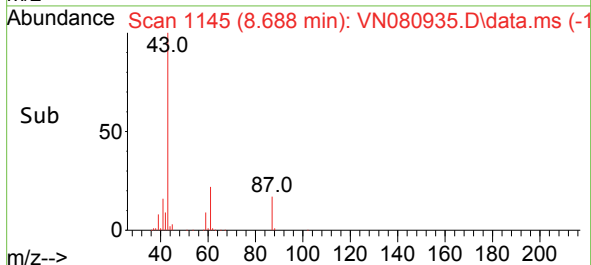
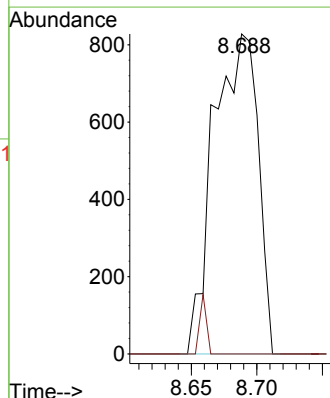
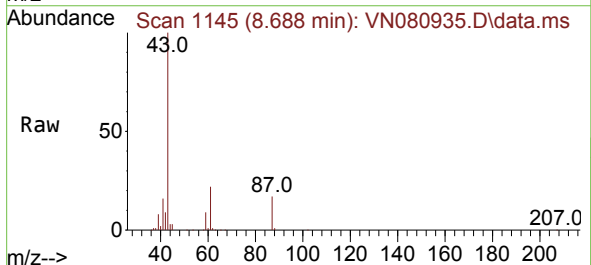
Instrument :
MSVOA_N
ClientSampleId :
WC-2

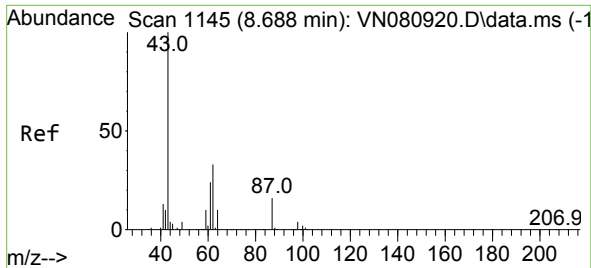
Tgt Ion:117 Resp: 45607
Ion Ratio Lower Upper
117 100
119 7.3 73.4 110.2#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.246 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 62 Resp: 1943
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.0

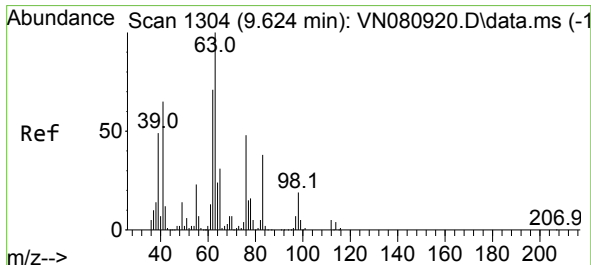
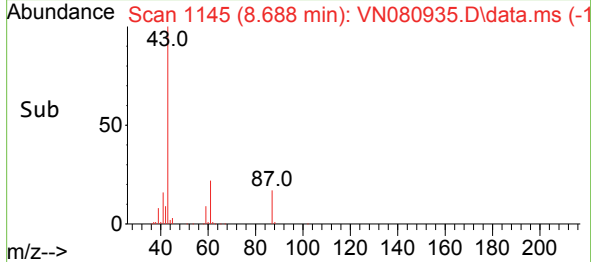
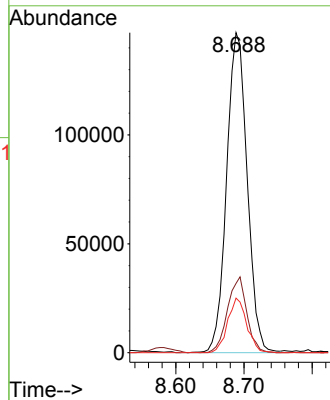
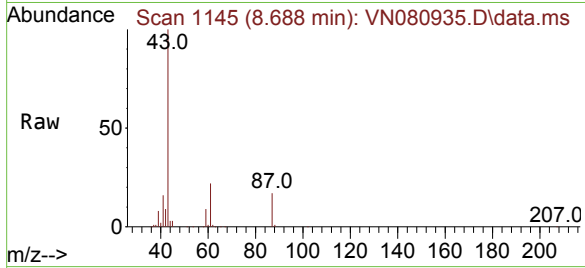




#43
Isopropyl Acetate
Concen: 29.829 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

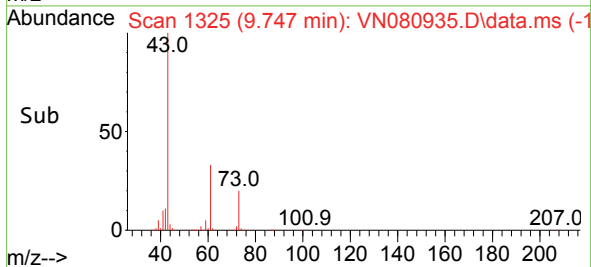
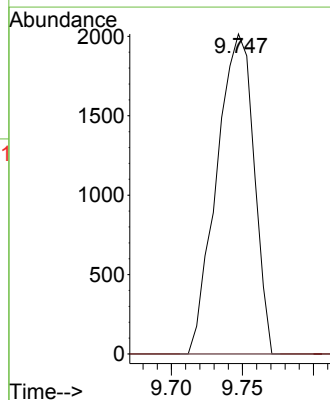
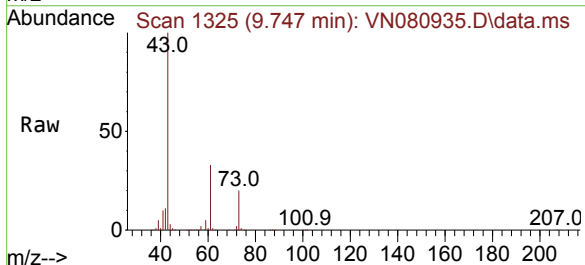
Instrument :
MSVOA_N
ClientSampleId :
WC-2

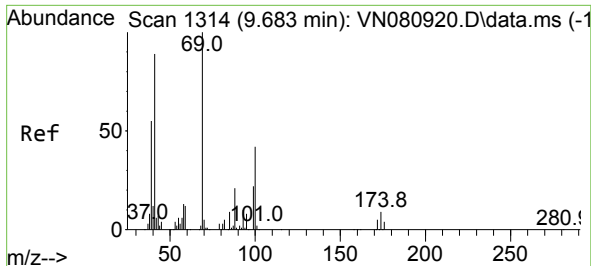
Tgt Ion: 43 Resp: 308689
Ion Ratio Lower Upper
43 100
61 22.2 19.9 29.9
87 15.8 9.0 13.6#



#45
1,2-Dichloropropane
Concen: 0.601 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 63 Resp: 3674
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

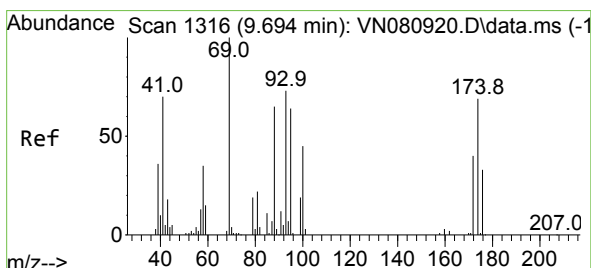
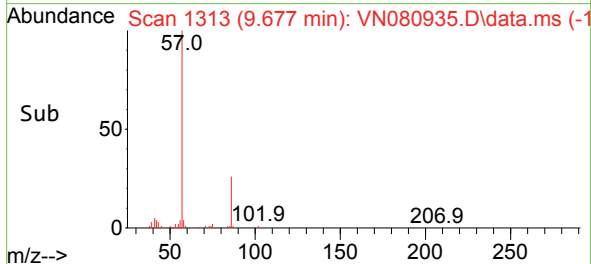
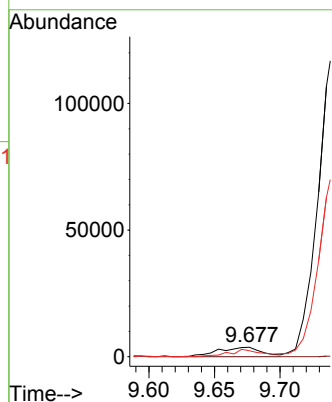
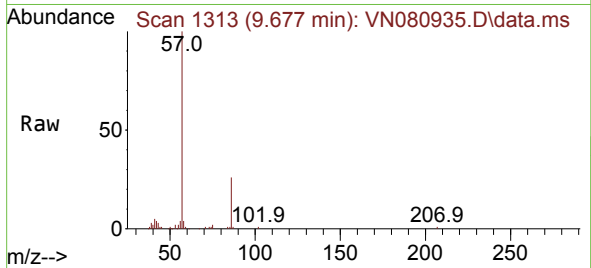




#48
Methyl methacrylate
Concen: 1.484 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

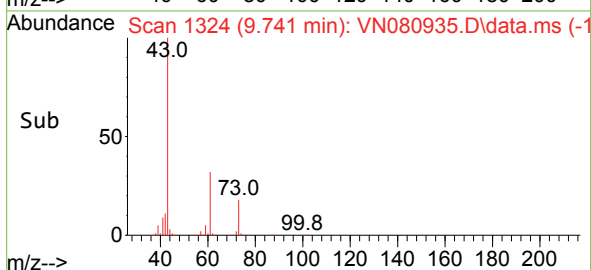
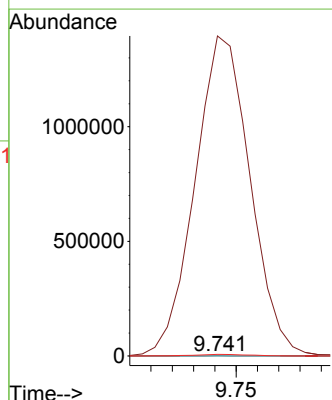
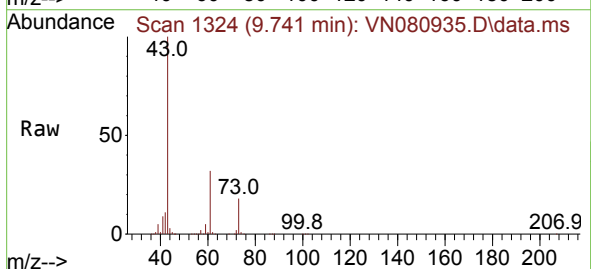
Instrument :
MSVOA_N
ClientSampleId :
WC-2

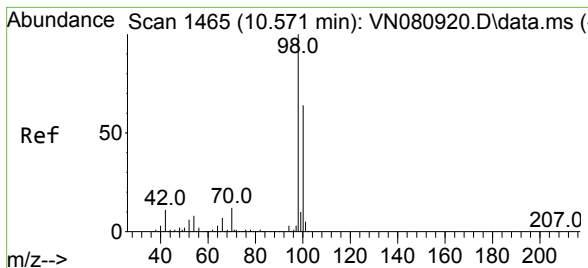
Tgt Ion: 41 Resp: 8655
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 56.3 47.6 71.4



#49
1,4-Dioxane
Concen: 4.356 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 88 Resp: 469
Ion Ratio Lower Upper
88 100
43 537077.0 30.1 45.1#
58 2584.4 63.9 95.9#

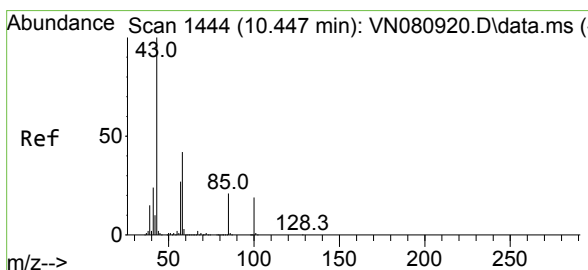
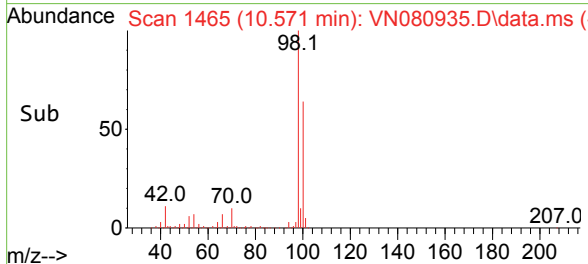
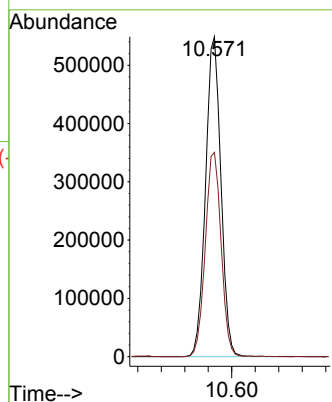
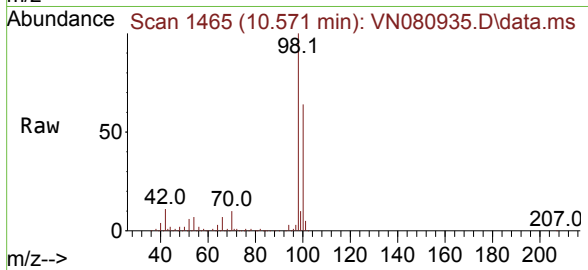




#50
Toluene-d8
Concen: 55.047 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

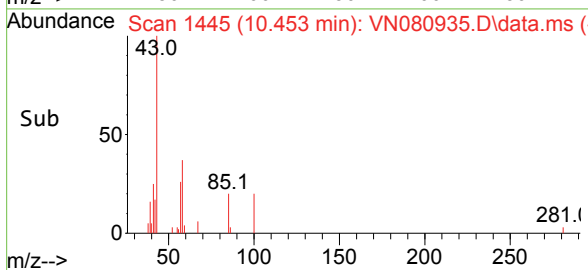
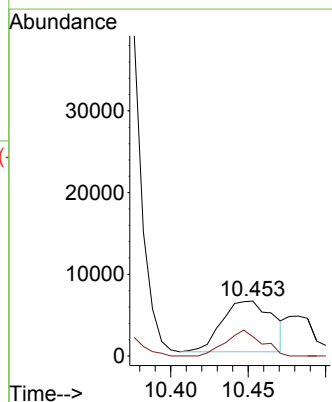
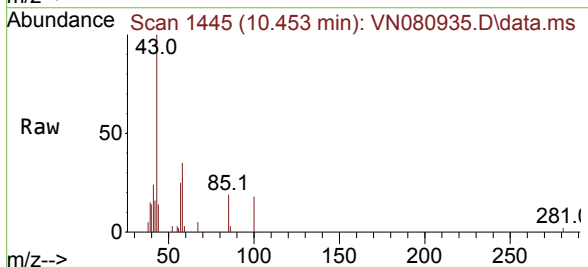
Instrument :
MSVOA_N
ClientSampleId :
WC-2

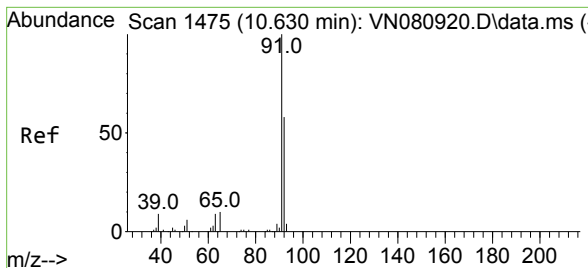
Tgt Ion: 98 Resp: 995436
Ion Ratio Lower Upper
98 100
100 65.7 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 2.276 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 43 Resp: 14195
Ion Ratio Lower Upper
43 100
58 35.9 29.4 44.0





#52

Toluene

Concen: 0.299 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

ClientSampleId :

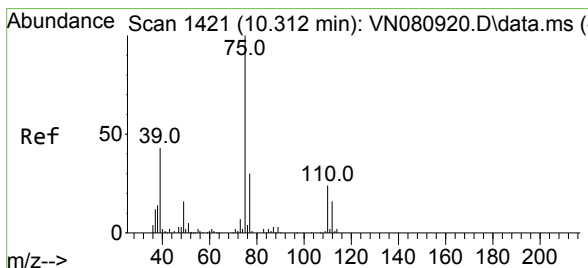
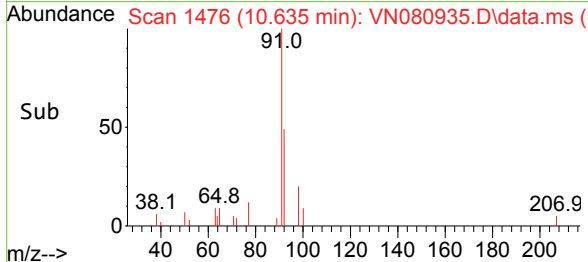
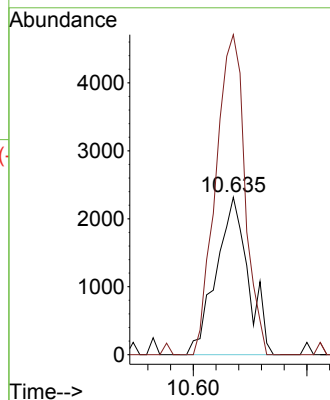
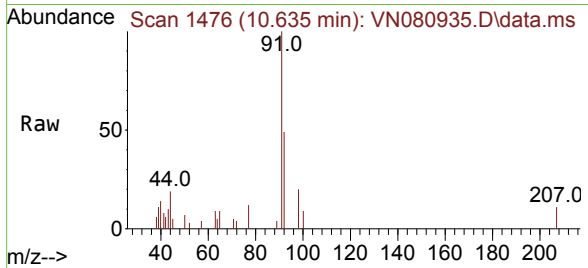
WC-2

Tgt Ion: 92 Resp: 4533

Ion Ratio Lower Upper

92 100

91 185.9 139.4 209.0



#54

cis-1,3-Dichloropropene

Concen: 12.388 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

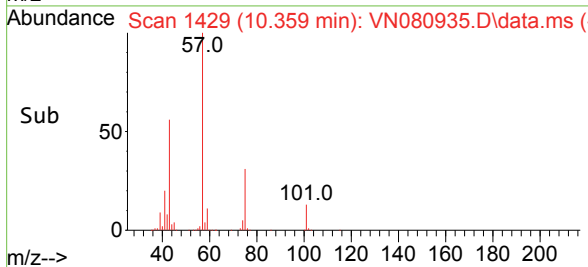
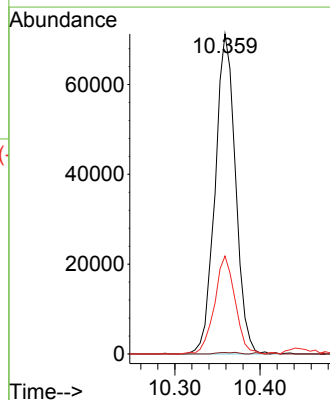
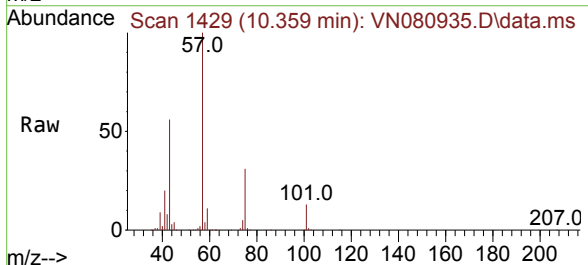
Tgt Ion: 75 Resp: 118877

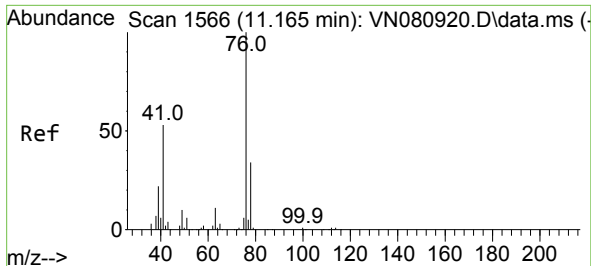
Ion Ratio Lower Upper

75 100

77 0.5 23.3 34.9#

39 30.6 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.403 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

ClientSampleId :

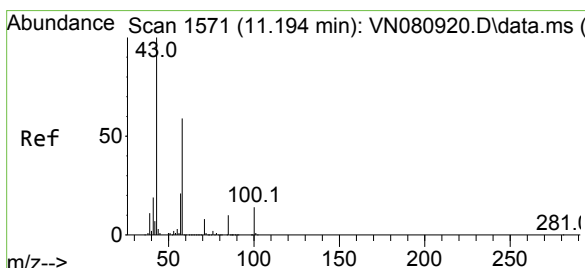
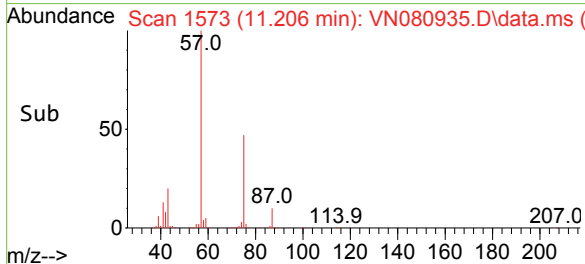
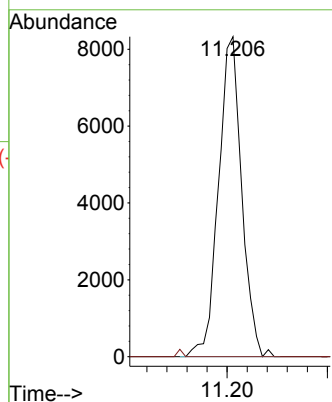
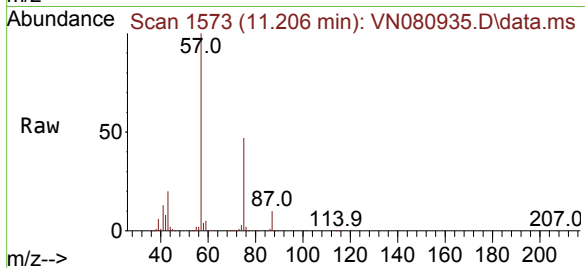
WC-2

Tgt Ion: 76 Resp: 13343

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 49.668 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN080935.D

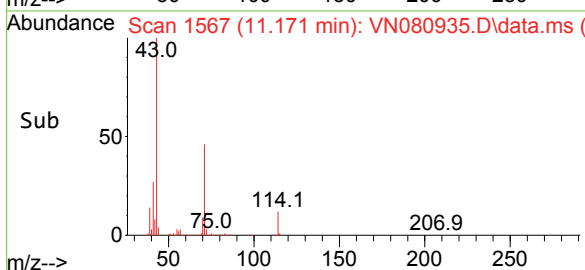
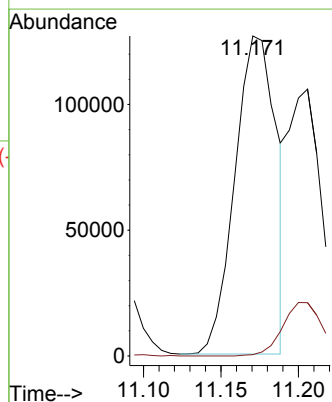
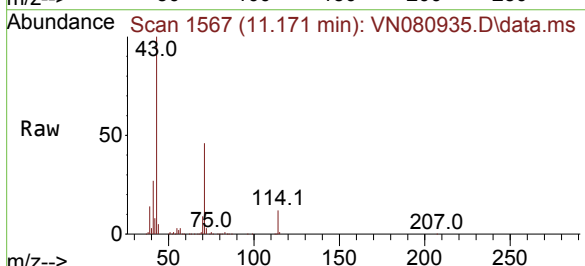
Acq: 07 Feb 2024 14:27

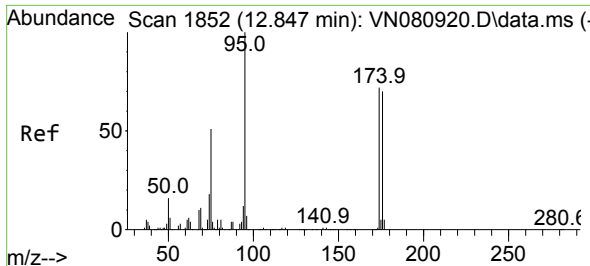
Tgt Ion: 43 Resp: 234773

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

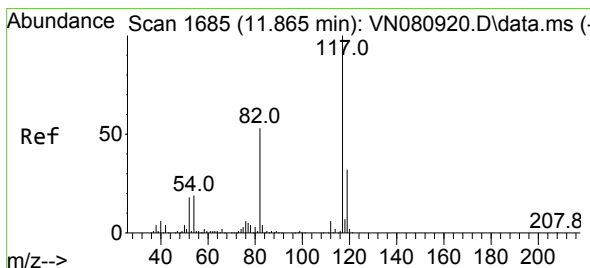
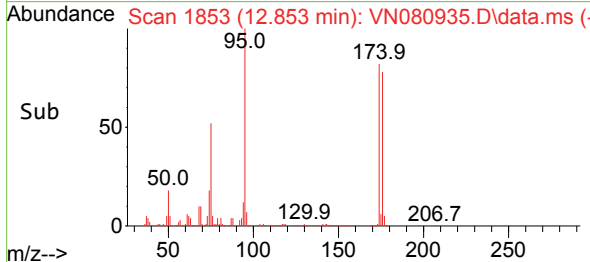
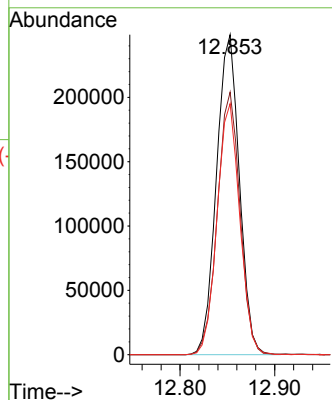
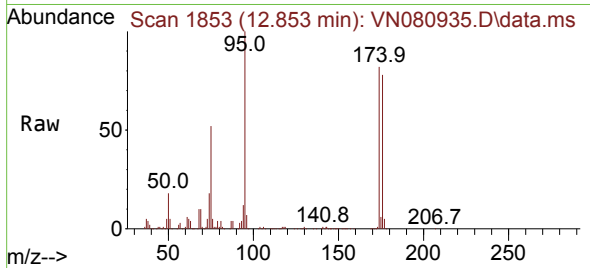




#62
4-Bromofluorobenzene
Concen: 63.636 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

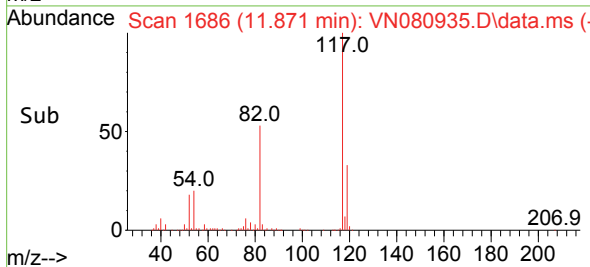
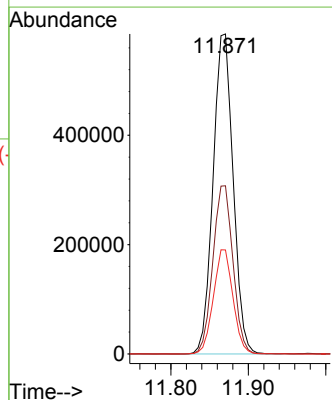
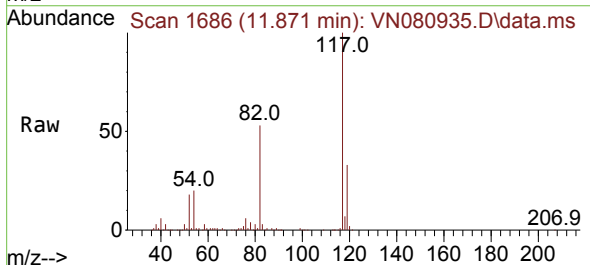
Instrument :
MSVOA_N
ClientSampleId :
WC-2

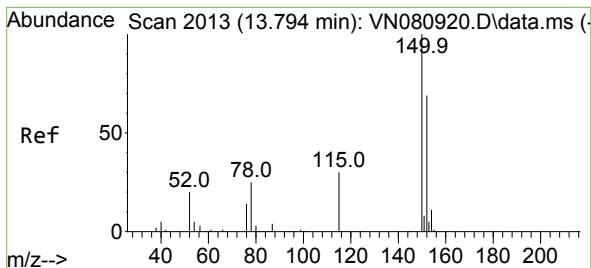
Tgt Ion: 95 Resp: 418045
Ion Ratio Lower Upper
95 100
174 80.9 0.0 120.4
176 77.7 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 117 Resp: 1055888
Ion Ratio Lower Upper
117 100
82 52.5 52.7 79.1#
119 32.5 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Instrument :

MSVOA_N

ClientSampleId :

WC-2

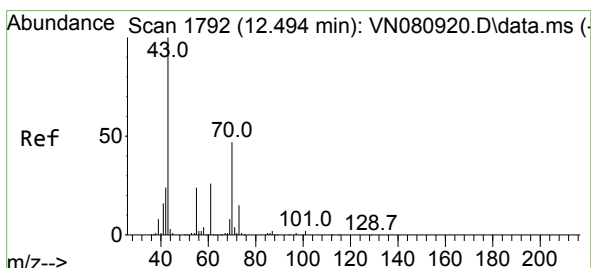
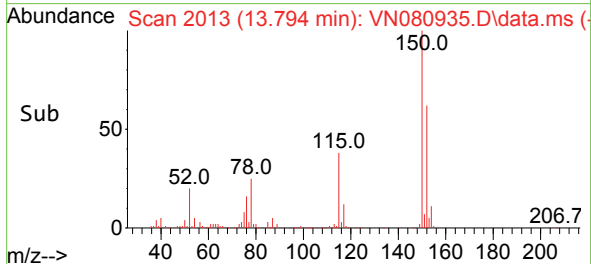
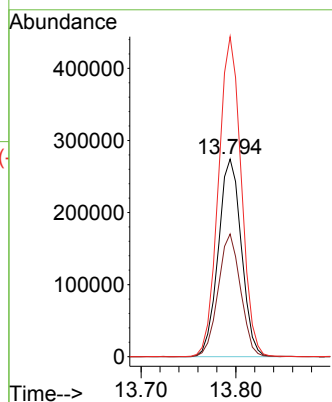
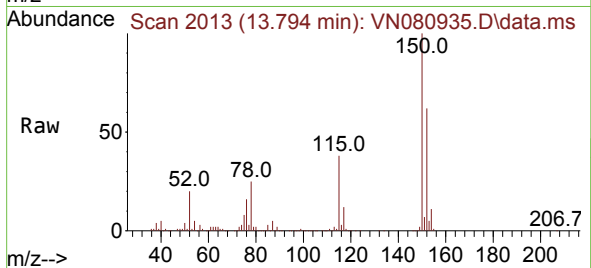
Tgt Ion:152 Resp: 464008

Ion Ratio Lower Upper

152 100

115 60.3 32.3 96.8

150 160.0 0.0 339.8



#74

N-ethyl acetate

Concen: 0.208 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN080935.D

Acq: 07 Feb 2024 14:27

Tgt Ion: 43 Resp: 2712

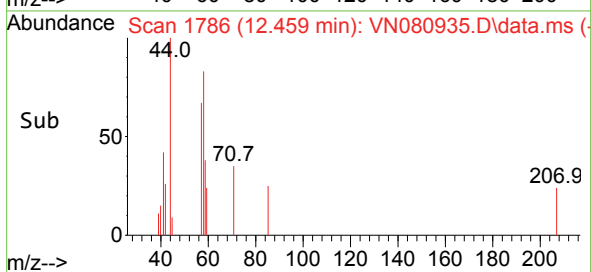
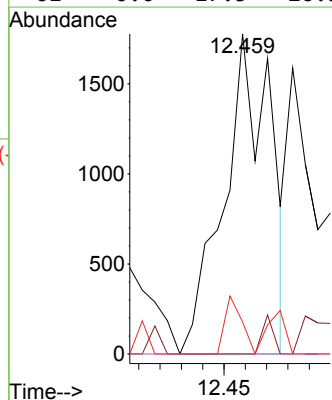
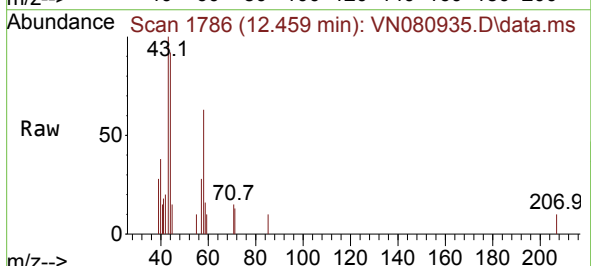
Ion Ratio Lower Upper

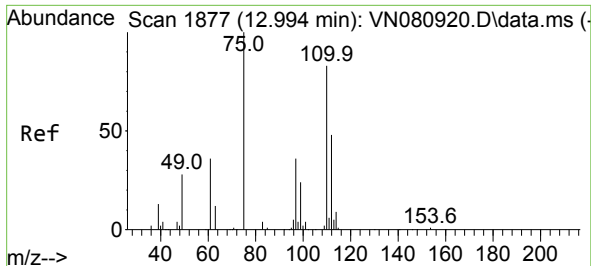
43 100

70 0.0 30.1 45.1#

55 6.5 17.0 25.4#

61 0.0 17.5 26.3#

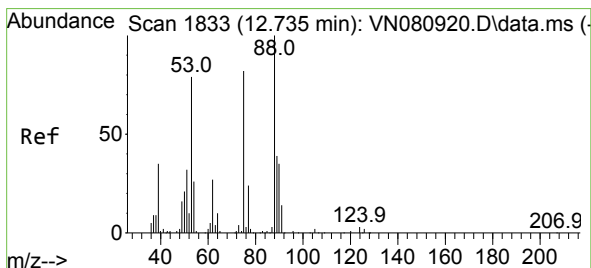
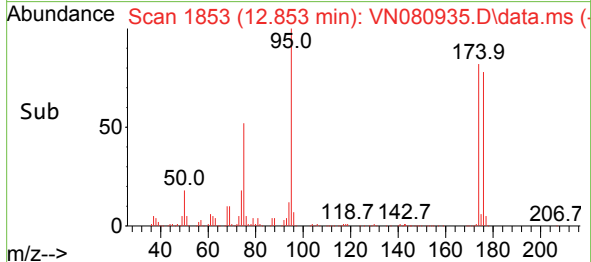
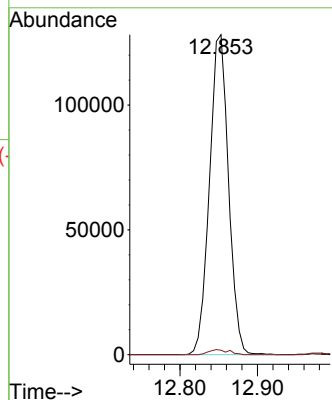
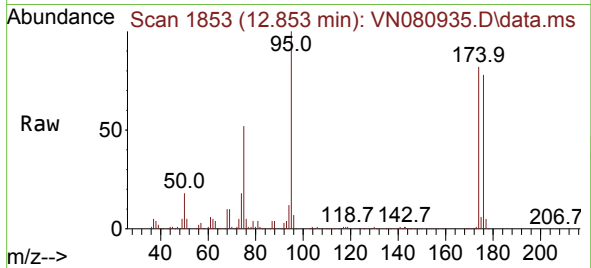




#76
1,2,3-Trichloropropane
Concen: 23.125 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

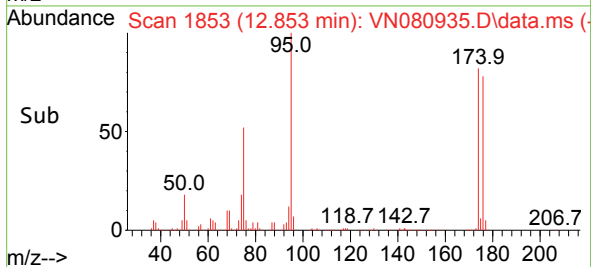
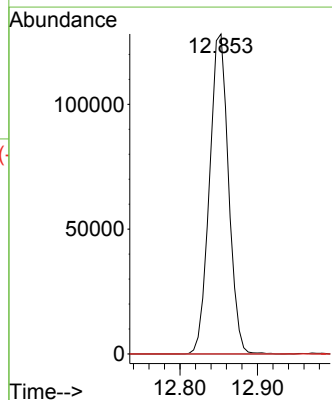
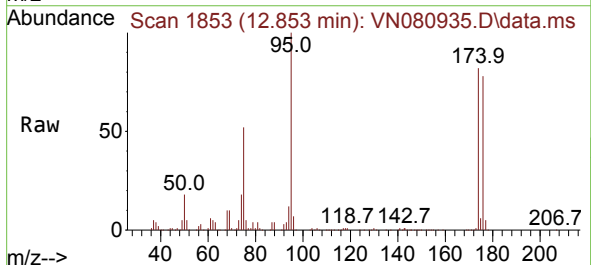
Instrument :
MSVOA_N
ClientSampleId :
WC-2

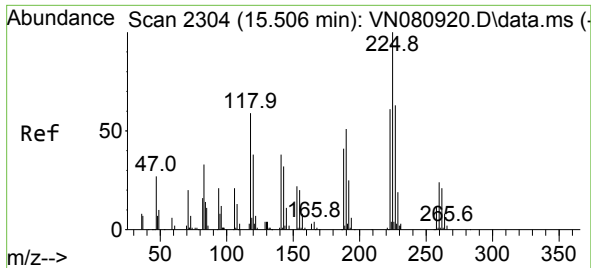
Tgt Ion: 75 Resp: 218785
Ion Ratio Lower Upper
75 100
77 1.7 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.829 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080935.D
Acq: 07 Feb 2024 14:27

Tgt Ion: 75 Resp: 218785
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#





#94
 Hexachlorobutadiene
 Concen: 0.409 ug/l
 RT: 15.506 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN080935.D
 Acq: 07 Feb 2024 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

Tgt Ion:	225	Resp:	1362
Ion	Ratio	Lower	Upper
225	100		
223	64.3	33.3	99.8
227	77.7	33.1	99.2

