

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
 Data File : VN081005.D
 Acq On : 12 Feb 2024 14:57
 Operator : JC\MD
 Sample : PB158948TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB158948TB

Quant Time: Feb 13 03:21:05 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)

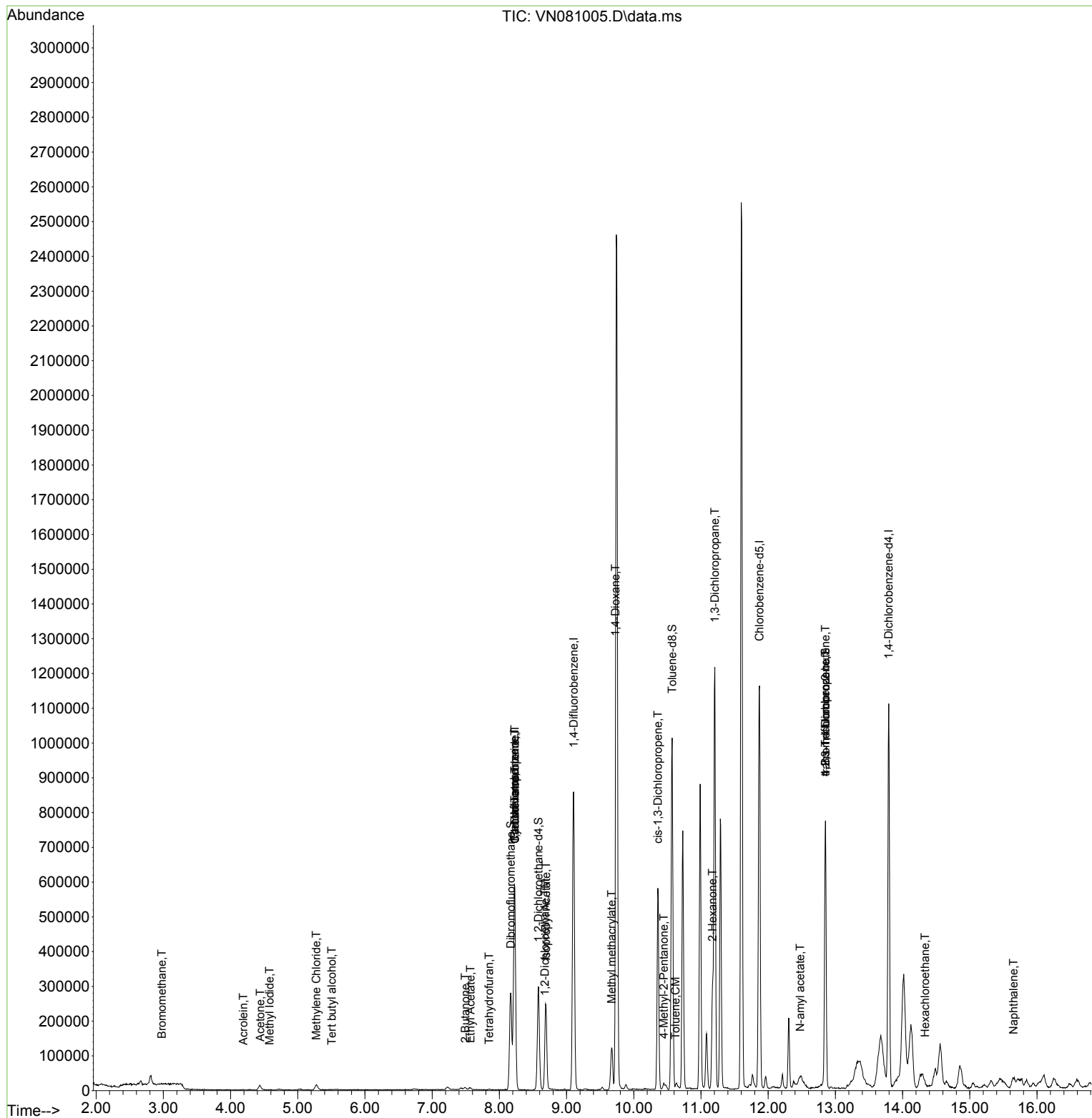
Internal Standards						
1) Pentafluorobenzene	8.224	168	426749	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	785444	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	722638	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	303276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	228447	42.435	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.860%		
35) Dibromofluoromethane	8.171	113	205665	48.797	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.600%		
50) Toluene-d8	10.571	98	702404	46.075	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.140%		
62) 4-Bromofluorobenzene	12.853	95	265370	47.917	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.840%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2316	Below Cal	#	53
5) Bromomethane	2.977	94	2074	0.511	ug/l #	70
10) Methyl Iodide	4.583	142	1050	0.233	ug/l #	39
11) Tert butyl alcohol	5.506	59	608	0.820	ug/l #	72
13) Acrolein	4.189	56	407	0.435	ug/l #	66
16) Acetone	4.442	43	25494	14.394	ug/l	94
18) Methyl Acetate	5.030	43	4732	Below Cal	#	71
20) Methylene Chloride	5.277	84	12077	2.251	ug/l #	78
25) 2-Butanone	7.494	43	7503	2.639	ug/l	91
29) Tetrahydrofuran	7.847	42	934	0.537	ug/l #	60
31) Cyclohexane	8.230	56	9088	1.235	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	35869	5.721	ug/l #	51
37) Ethyl Acetate	7.571	43	7936	1.673	ug/l #	94
38) Carbon Tetrachloride	8.230	117	47556	7.399	ug/l #	19
42) 1,2-Dichloroethane	8.677	62	2135	0.321	ug/l #	75
43) Isopropyl Acetate	8.694	43	275392	31.566	ug/l #	90
48) Methyl methacrylate	9.671	41	8004	1.628	ug/l #	50
49) 1,4-Dioxane	9.729	88	348	3.834	ug/l #	18
51) 4-Methyl-2-Pentanone	10.447	43	10133	1.927	ug/l #	83
52) Toluene	10.623	92	7344	0.574	ug/l	98
54) cis-1,3-Dichloropropene	10.359	75	111164	13.741	ug/l #	60
57) 1,3-Dichloropropane	11.206	76	13496	1.684	ug/l #	43
59) 2-Hexanone	11.171	43	221107	55.487	ug/l #	26
74) N-amyl acetate	12.476	43	1960	0.231	ug/l #	51
76) 1,2,3-Trichloropropane	12.853	75	133748	21.629	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	133748	58.764	ug/l #	14
90) Hexachloroethane	14.335	117	648	0.221	ug/l #	21
95) Naphthalene	15.653	128	7707	0.465	ug/l #	67

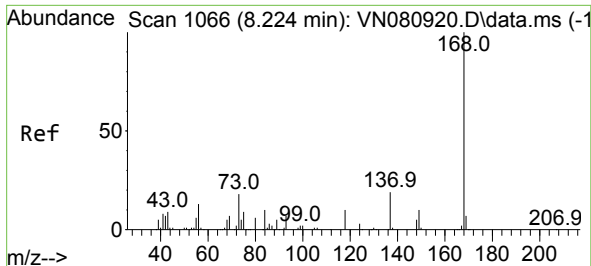
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

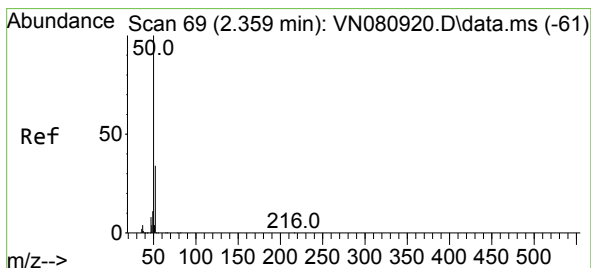
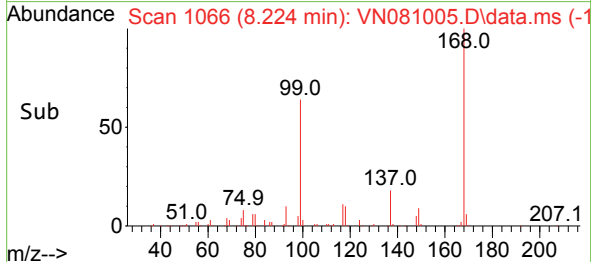
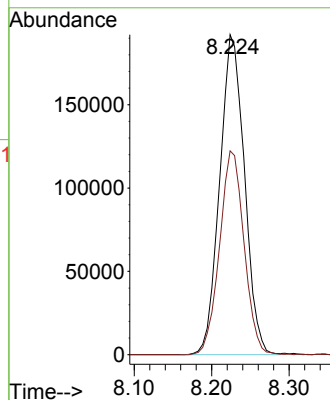
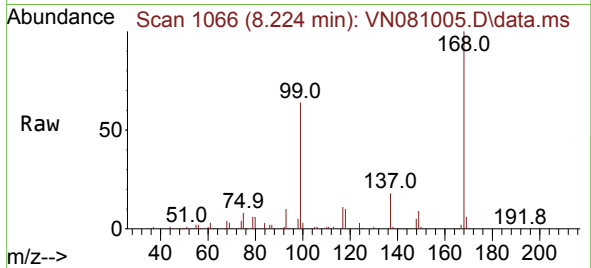




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

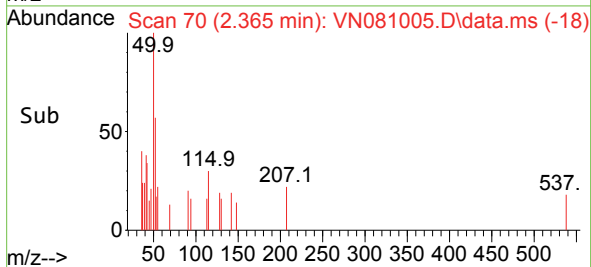
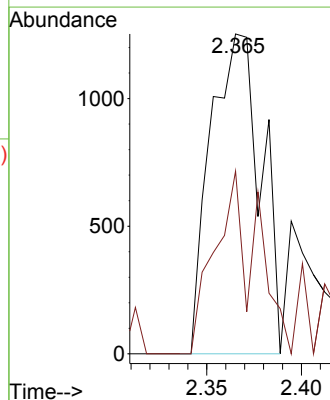
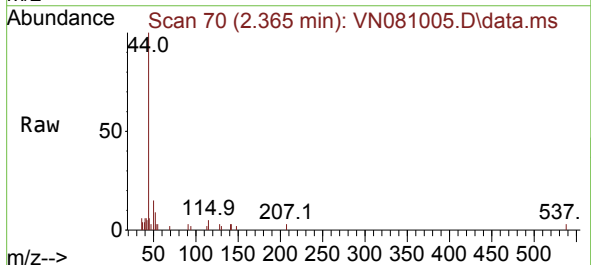
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

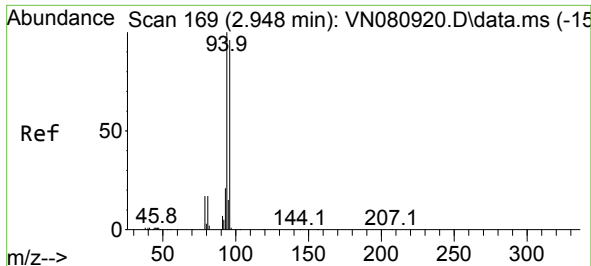
Tgt Ion:168 Resp: 426749
Ion Ratio Lower Upper
168 100
99 63.7 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 50 Resp: 2316
Ion Ratio Lower Upper
50 100
52 57.1 25.0 37.4#

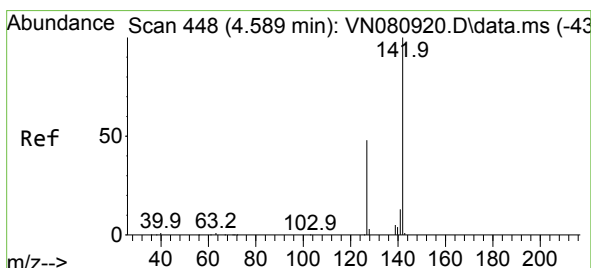
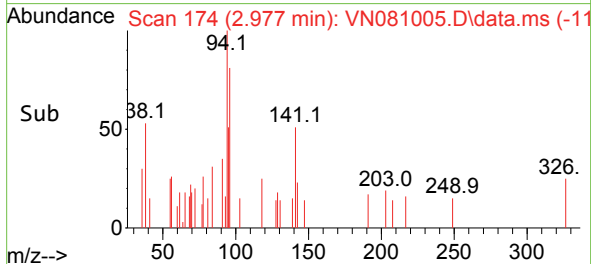
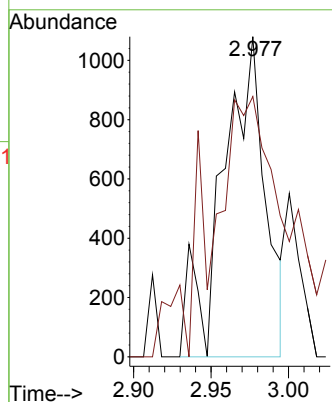
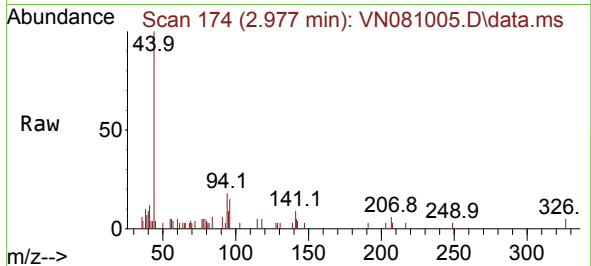




#5
Bromomethane
Concen: 0.511 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

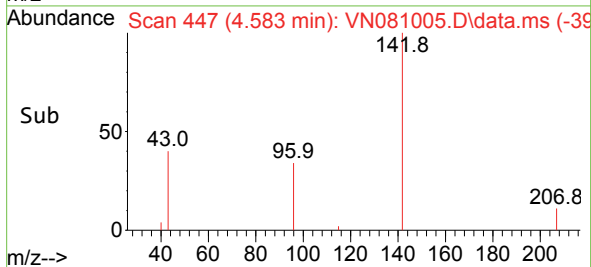
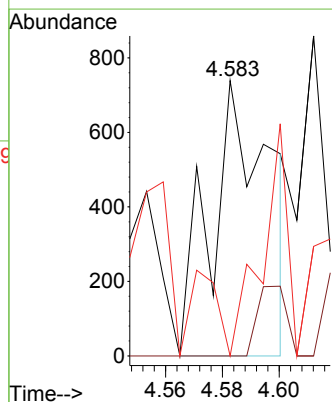
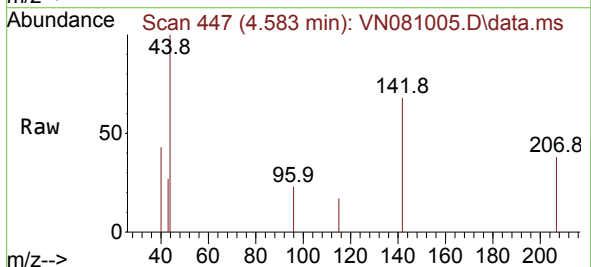
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

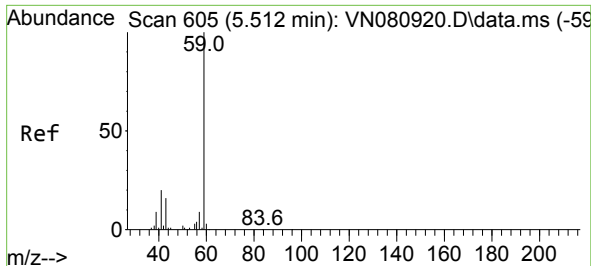
Tgt Ion: 94 Resp: 2074
Ion Ratio Lower Upper
94 100
96 58.9 69.2 103.8#



#10
Methyl Iodide
Concen: 0.233 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion:142 Resp: 1050
Ion Ratio Lower Upper
142 100
127 0.0 37.0 55.4#
141 0.0 12.5 18.7#

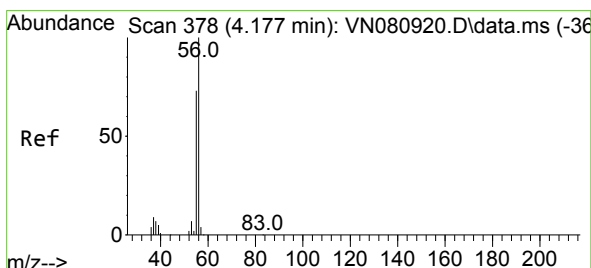
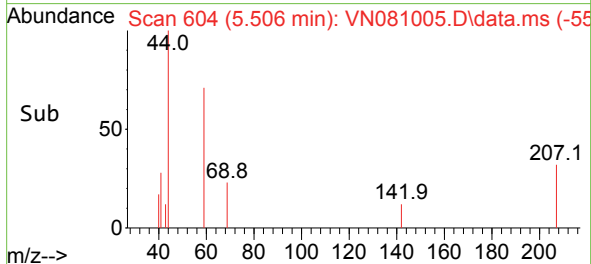
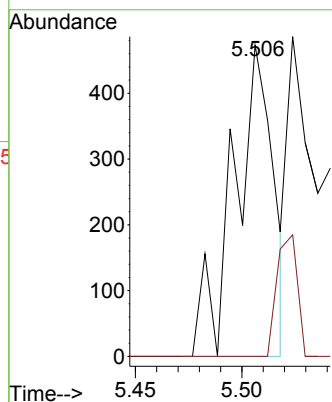
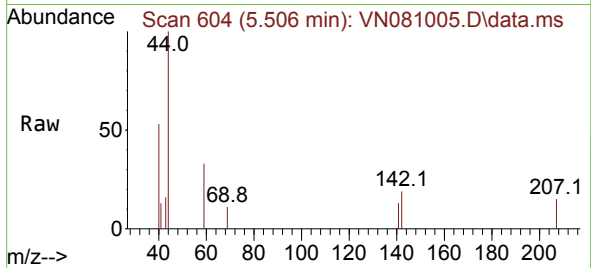




#11
Tert butyl alcohol
Concen: 0.820 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

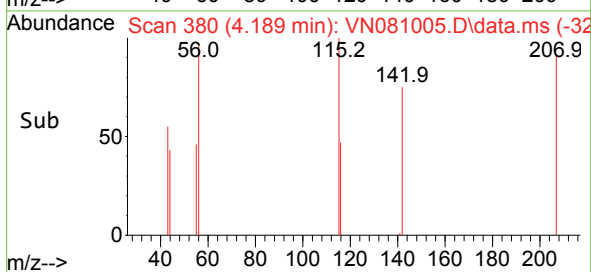
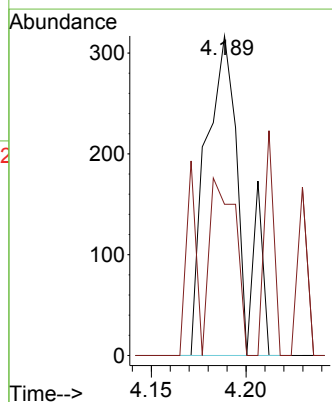
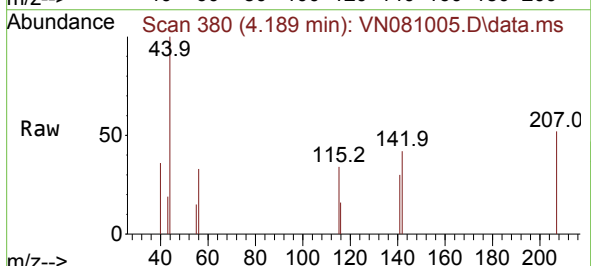
Instrument :
MSVOA_N
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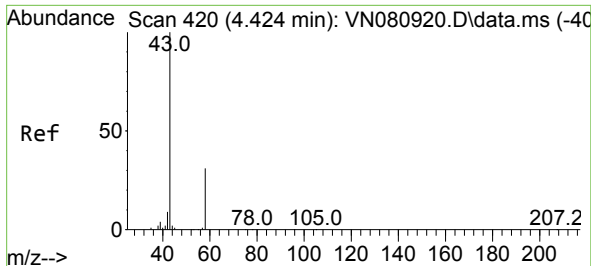
Tgt Ion: 59 Resp: 608
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.435 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 56 Resp: 407
Ion Ratio Lower Upper
56 100
55 41.3 55.3 82.9#

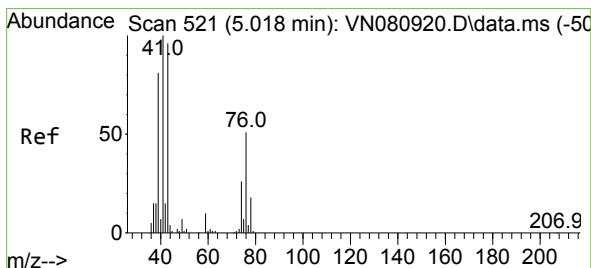
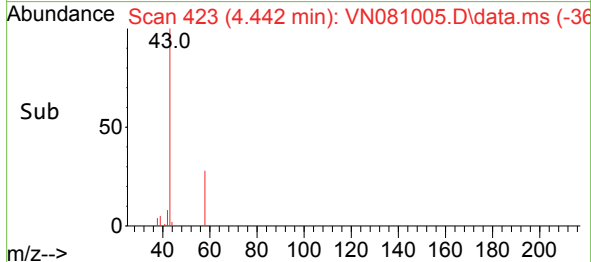
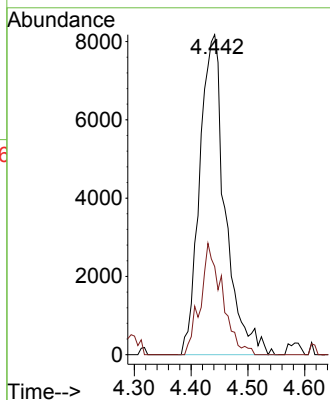
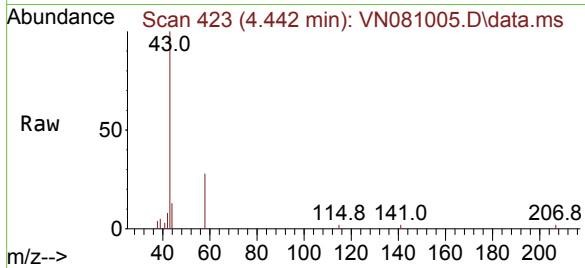




#16
Acetone
Concen: 14.394 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

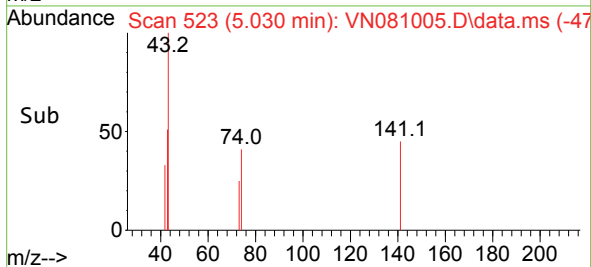
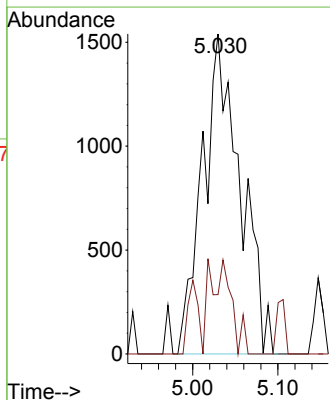
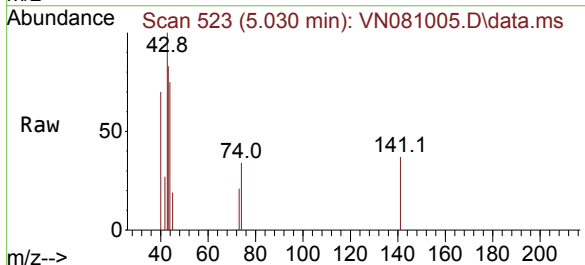
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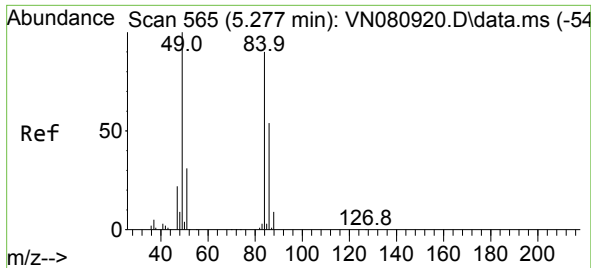
Tgt Ion: 43 Resp: 25494
Ion Ratio Lower Upper
43 100
58 27.6 24.8 37.2



#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 43 Resp: 4732
Ion Ratio Lower Upper
43 100
74 7.7 17.3 25.9#

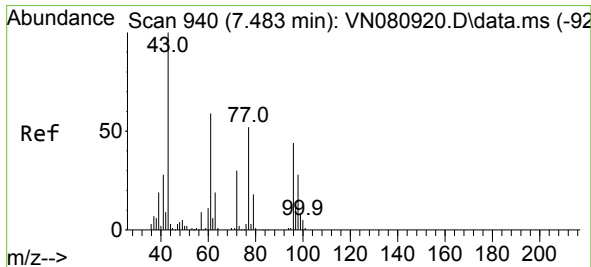
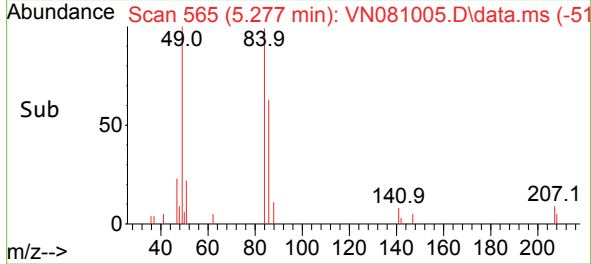
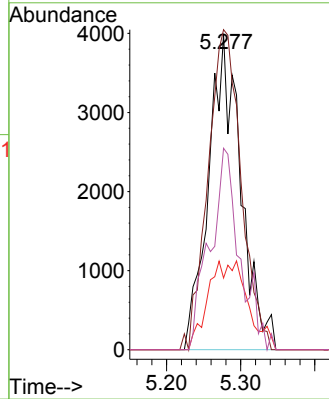
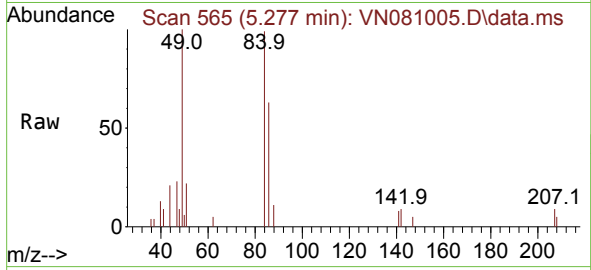




#20
Methylene Chloride
Concen: 2.251 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

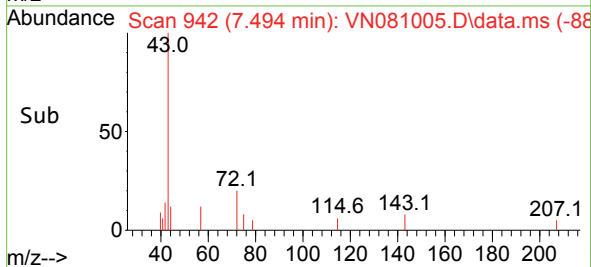
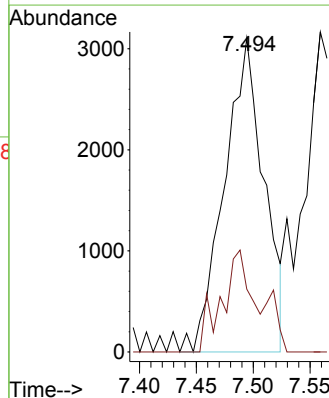
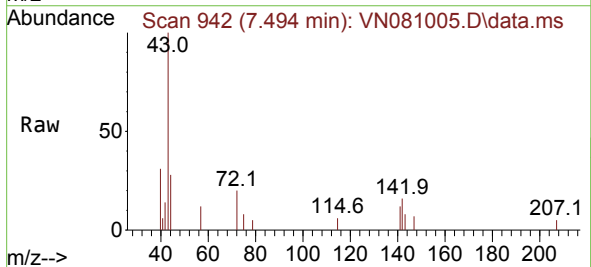
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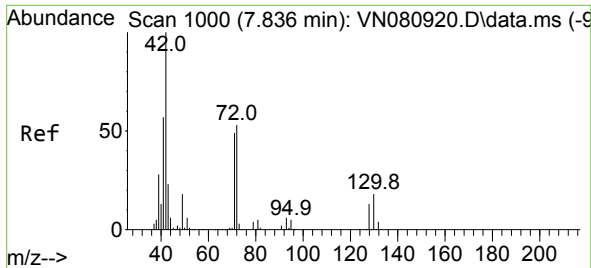
Tgt Ion:	84	Resp:	12077
Ion	Ratio	Lower	Upper
84	100		
49	101.3	108.1	162.1#
51	22.7	32.9	49.3#
86	63.8	48.6	73.0



#25
2-Butanone
Concen: 2.639 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion:	43	Resp:	7503
Ion	Ratio	Lower	Upper
43	100		
72	20.0	19.5	29.3

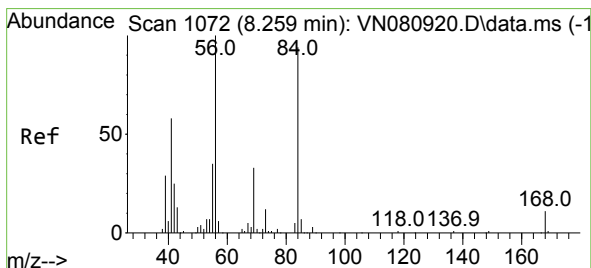
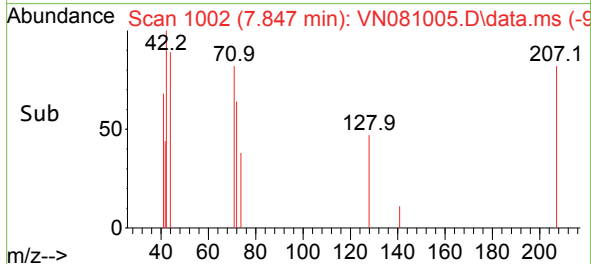
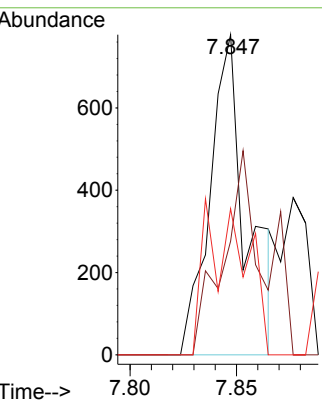
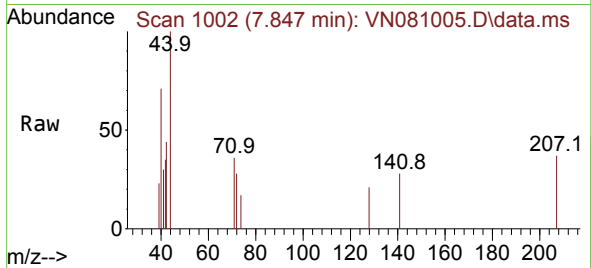




#29
Tetrahydrofuran
Concen: 0.537 ug/l
RT: 7.847 min Scan# 1067
Delta R.T. 0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

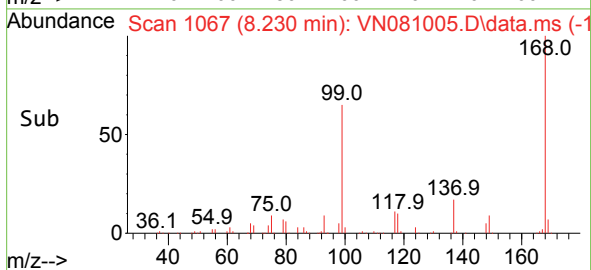
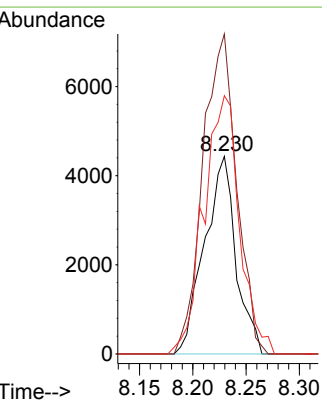
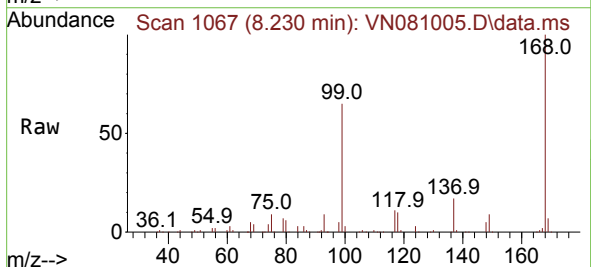
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

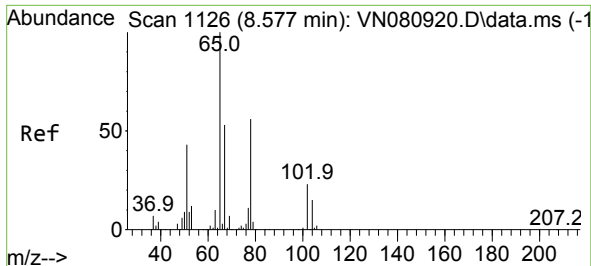
Tgt Ion: 42 Resp: 934
Ion Ratio Lower Upper
42 100
72 70.3 31.1 46.7#
71 51.8 28.3 42.5#



#31
Cyclohexane
Concen: 1.235 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 56 Resp: 9088
Ion Ratio Lower Upper
56 100
69 161.9 20.1 30.1#
84 130.7 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 42.435 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

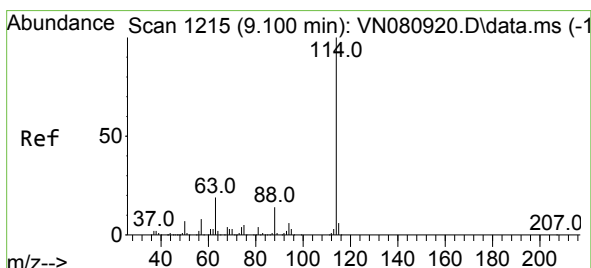
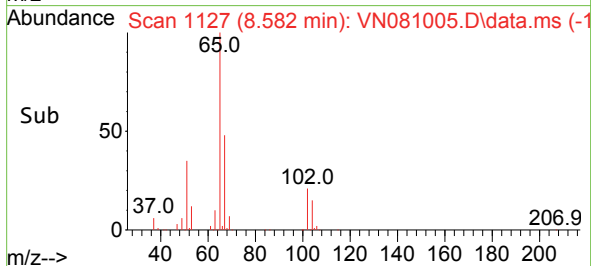
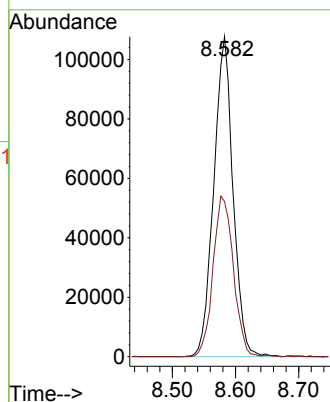
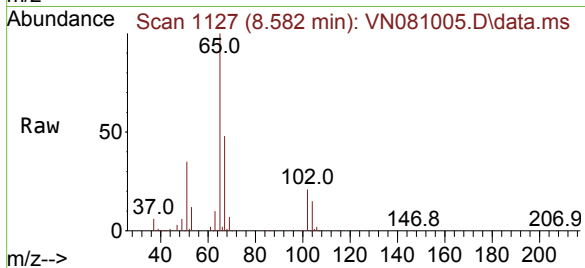
PB158948TB

Tgt Ion: 65 Resp: 228447

Ion Ratio Lower Upper

65 100

67 52.8 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

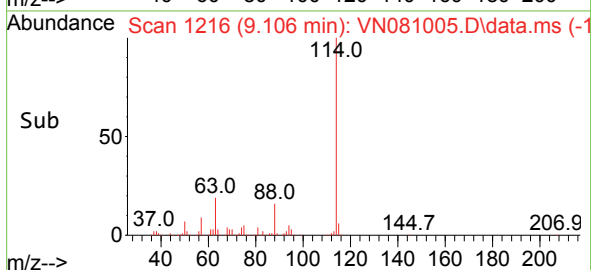
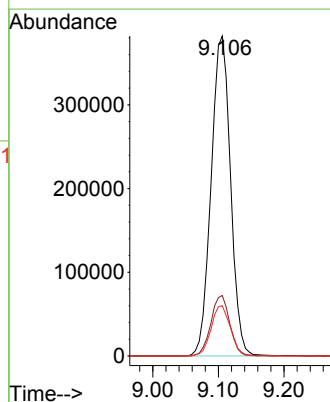
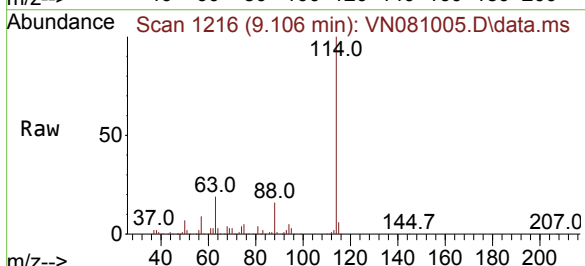
Tgt Ion: 114 Resp: 785444

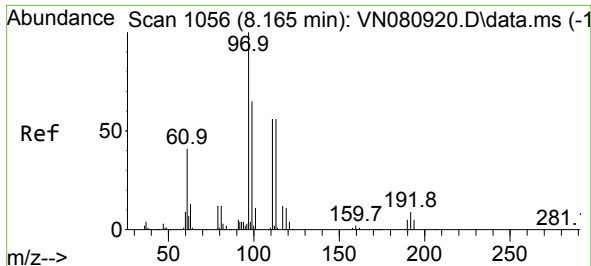
Ion Ratio Lower Upper

114 100

63 18.9 0.0 48.0

88 15.7 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.797 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

PB158948TB

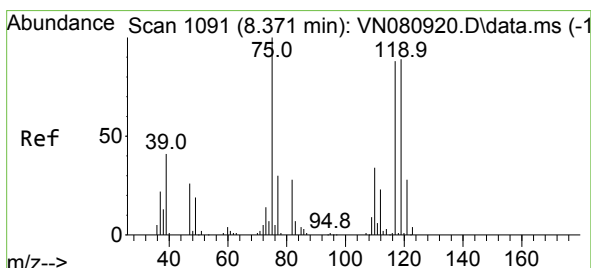
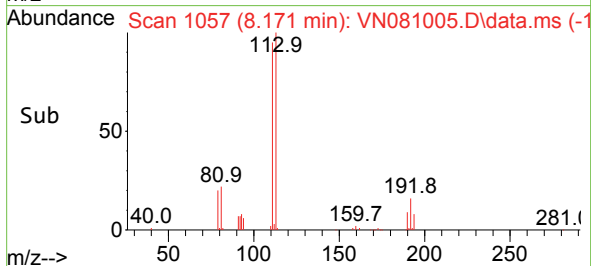
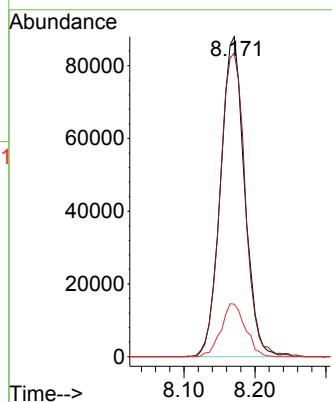
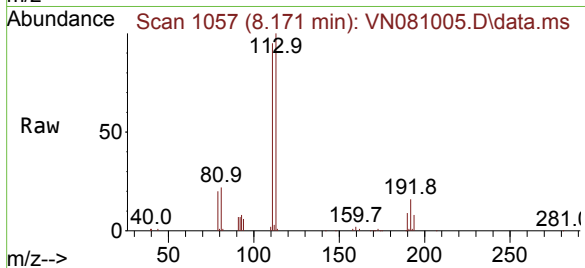
Tgt Ion:113 Resp: 205665

Ion Ratio Lower Upper

113 100

111 99.7 82.2 123.4

192 16.9 12.5 18.7



#36

1,1-Dichloropropene

Concen: 5.721 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

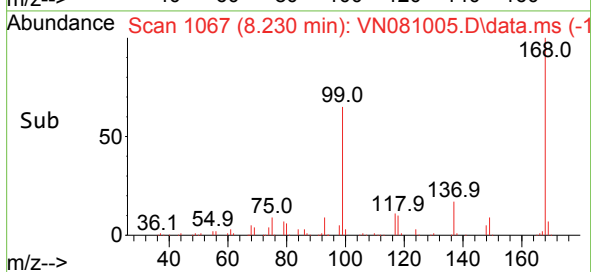
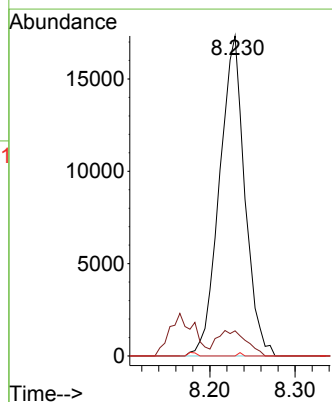
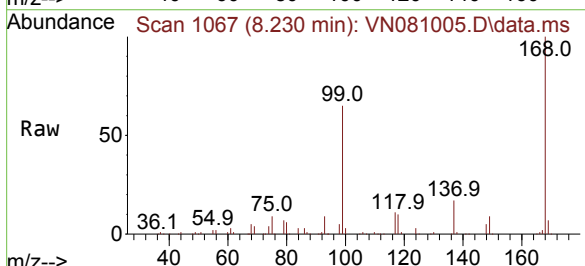
Tgt Ion: 75 Resp: 35869

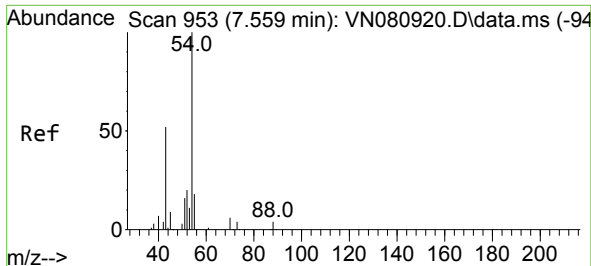
Ion Ratio Lower Upper

75 100

110 9.1 16.0 48.0#

77 0.2 25.8 38.6#

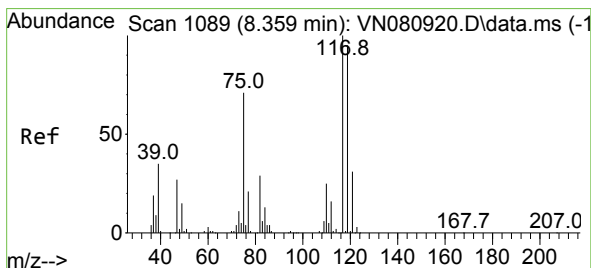
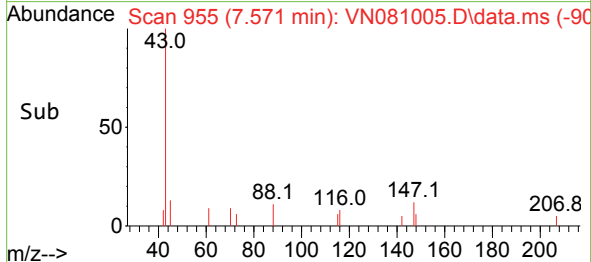
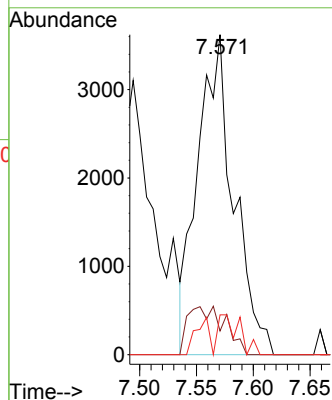
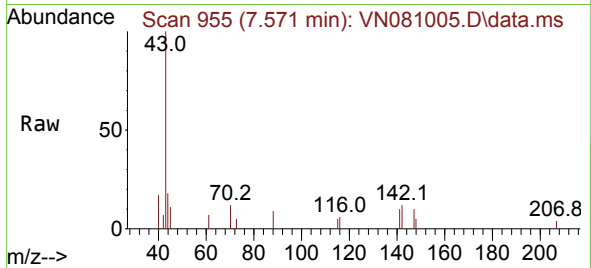




#37
Ethyl Acetate
Concen: 1.673 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

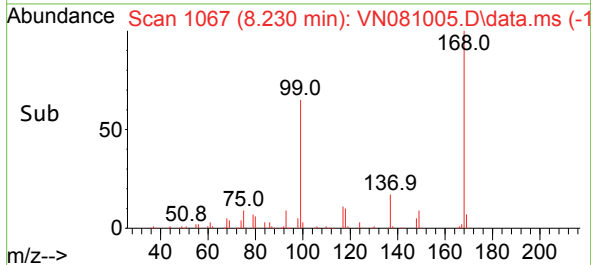
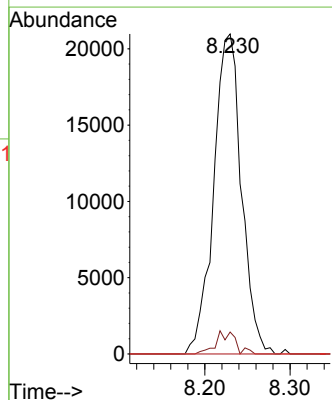
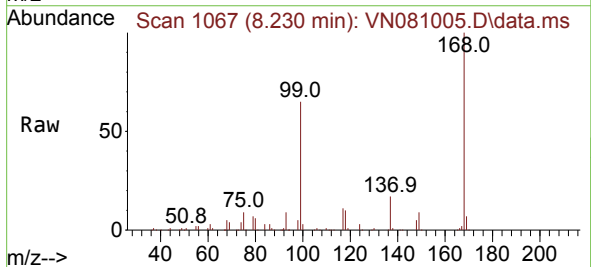
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

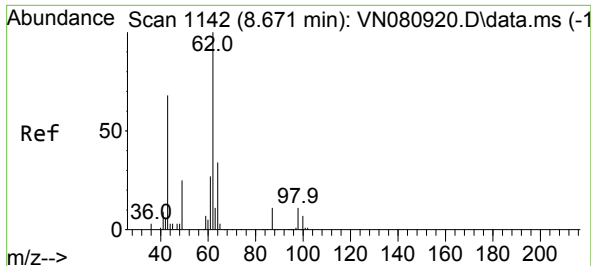
Tgt Ion: 43 Resp: 7936
Ion Ratio Lower Upper
43 100
61 15.6 10.6 15.8
70 7.5 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 7.399 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.130 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 117 Resp: 47556
Ion Ratio Lower Upper
117 100
119 6.8 73.4 110.2#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.321 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

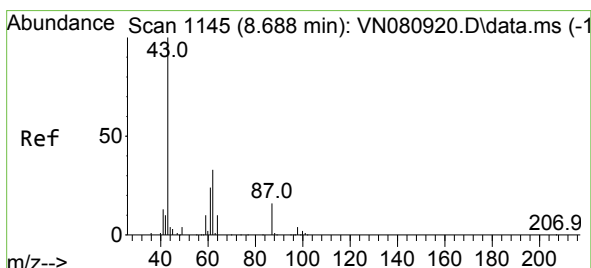
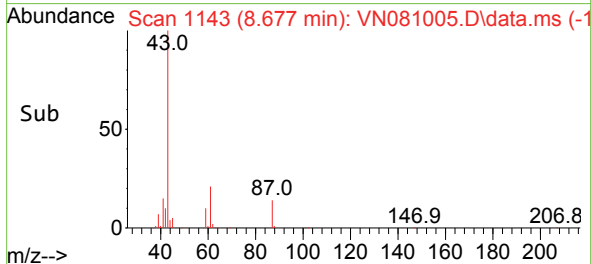
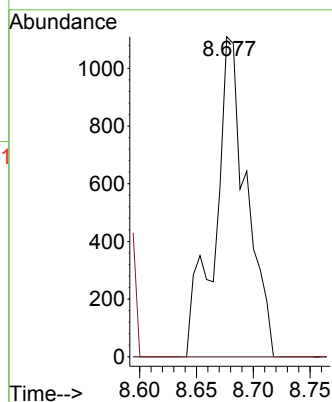
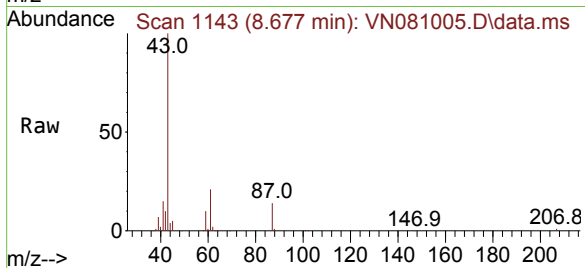
PB158948TB

Tgt Ion: 62 Resp: 2135

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 31.566 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

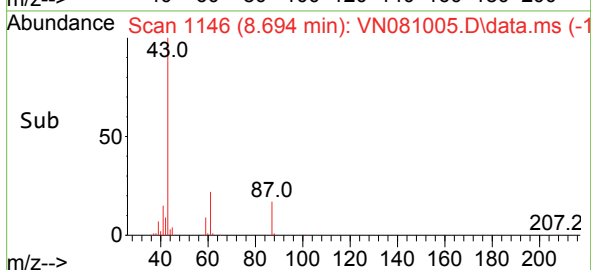
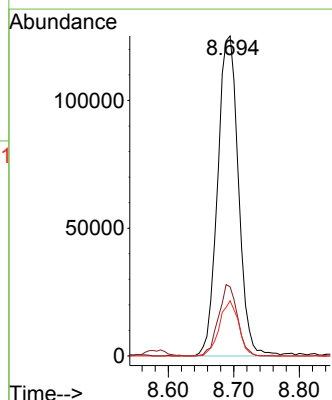
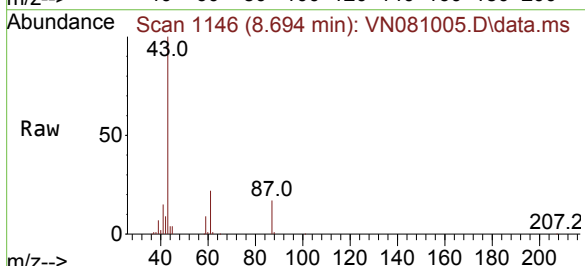
Tgt Ion: 43 Resp: 275392

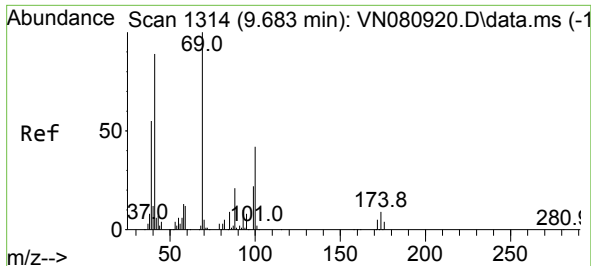
Ion Ratio Lower Upper

43 100

61 20.4 19.9 29.9

87 16.0 9.0 13.6

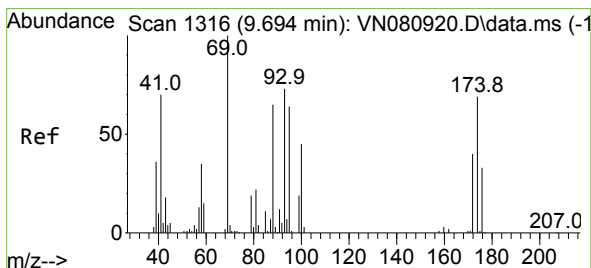
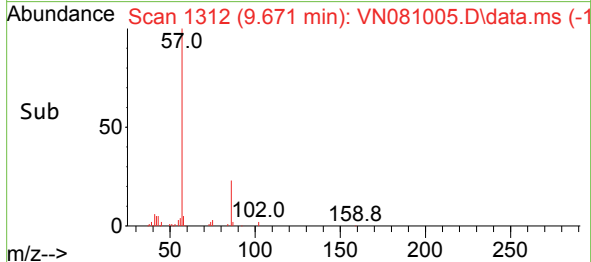
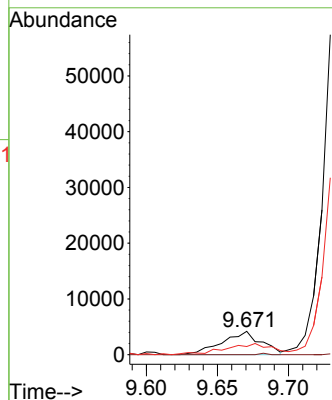
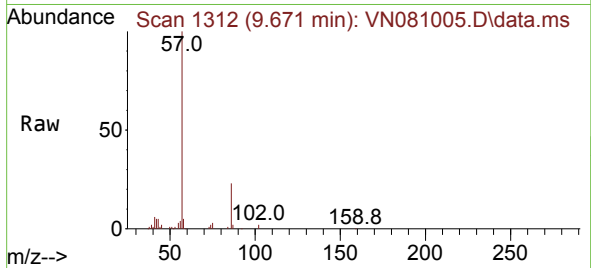




#48
Methyl methacrylate
Concen: 1.628 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

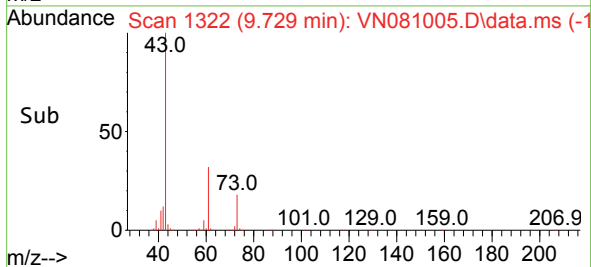
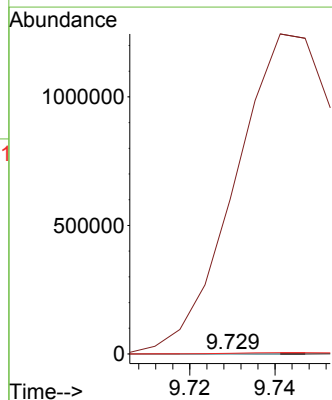
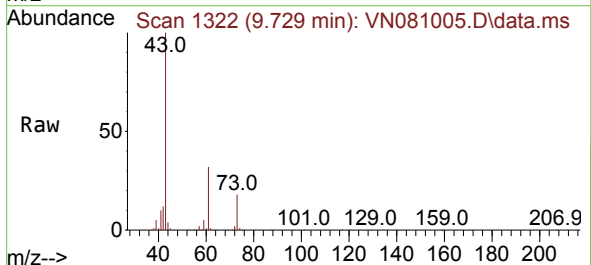
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

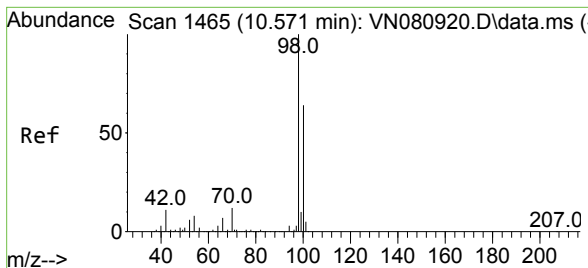
Tgt Ion: 41 Resp: 8004
Ion Ratio Lower Upper
41 100
69 1.1 62.2 93.2#
39 58.7 47.6 71.4



#49
1,4-Dioxane
Concen: 3.834 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.035 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 88 Resp: 348
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 0.0 63.9 95.9#

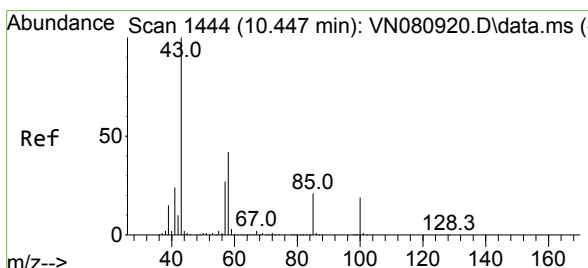
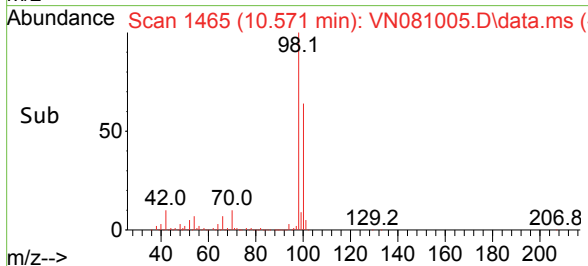
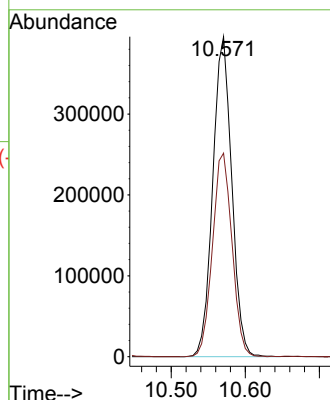
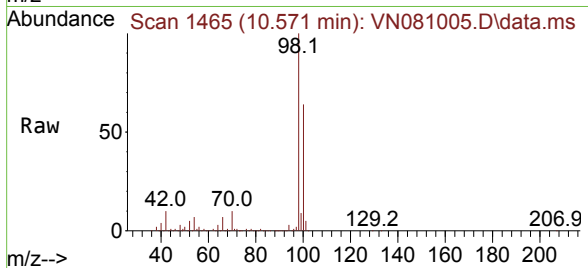




#50
Toluene-d8
Concen: 46.075 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

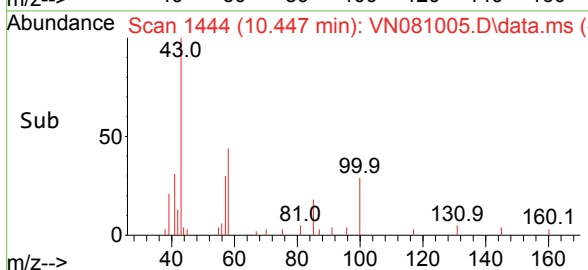
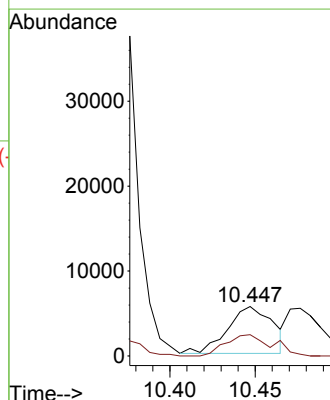
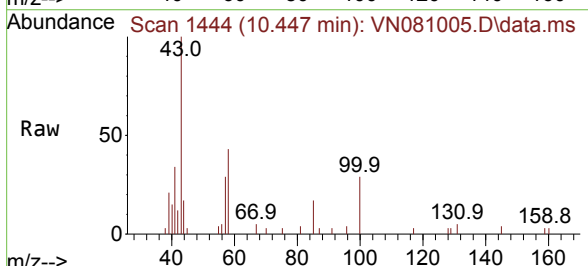
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

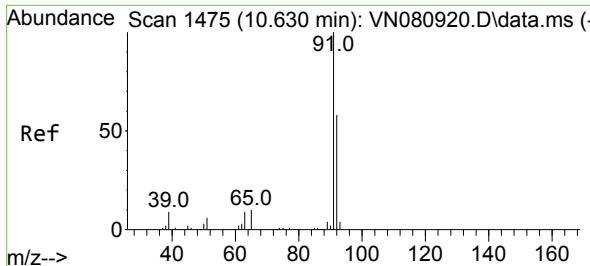
Tgt Ion: 98 Resp: 702404
Ion Ratio Lower Upper
98 100
100 65.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.927 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 43 Resp: 10133
Ion Ratio Lower Upper
43 100
58 46.9 29.4 44.0#

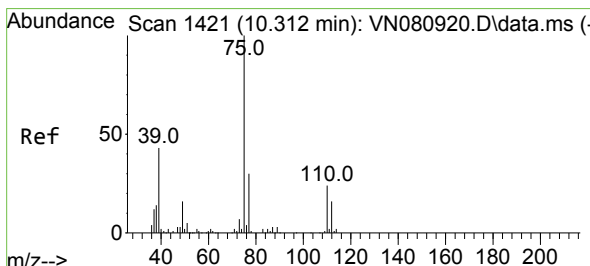
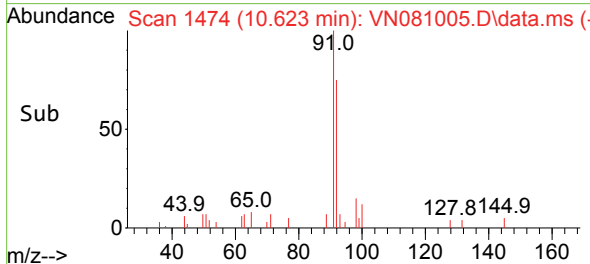
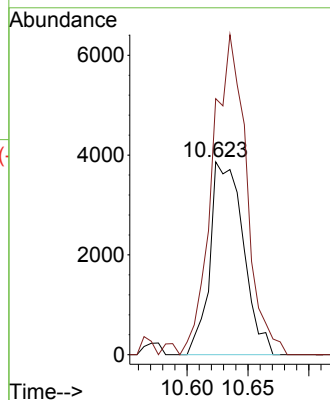
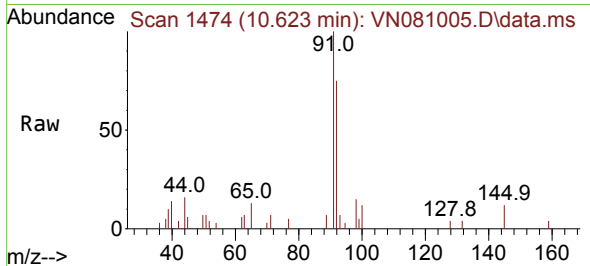




#52
Toluene
Concen: 0.574 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

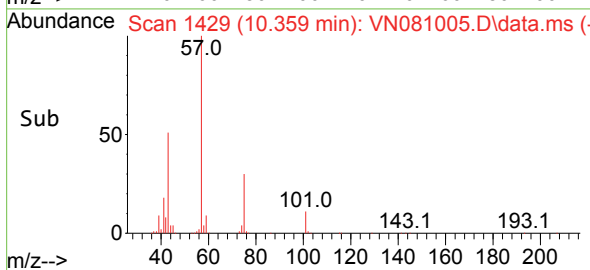
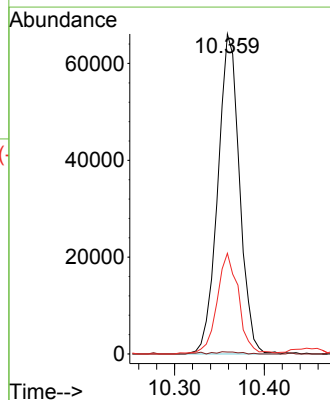
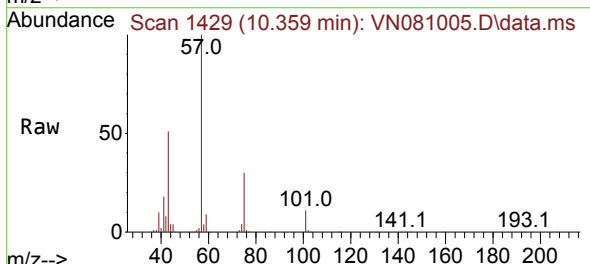
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

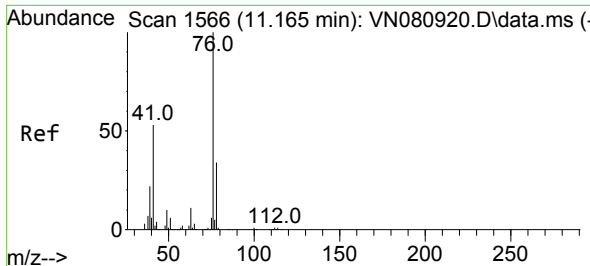
Tgt Ion: 92 Resp: 7344
Ion Ratio Lower Upper
92 100
91 171.9 139.4 209.0



#54
cis-1,3-Dichloropropene
Concen: 13.741 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 75 Resp: 111164
Ion Ratio Lower Upper
75 100
77 0.6 23.3 34.9#
39 31.1 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.684 ug/l

RT: 11.206 min Scan# 1567

Delta R.T. 0.041 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

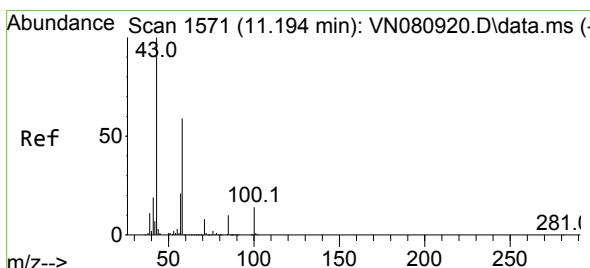
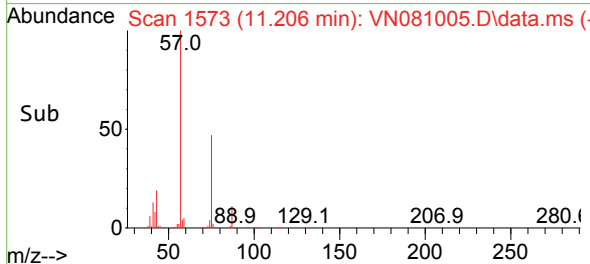
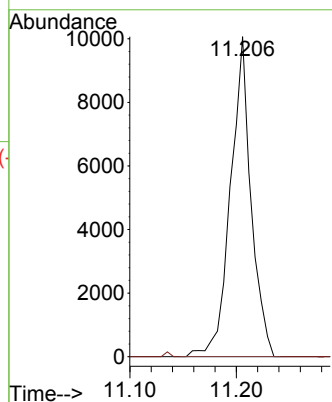
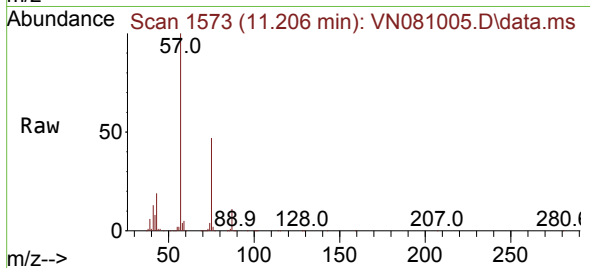
PB158948TB

Tgt Ion: 76 Resp: 13496

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 55.487 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN081005.D

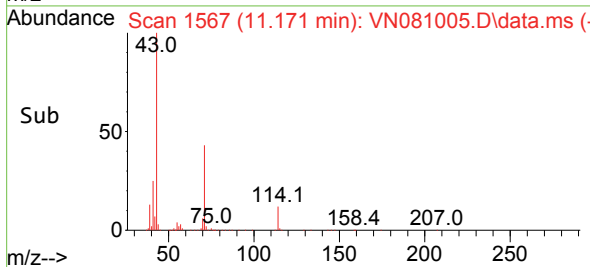
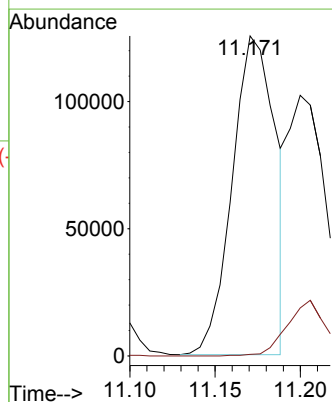
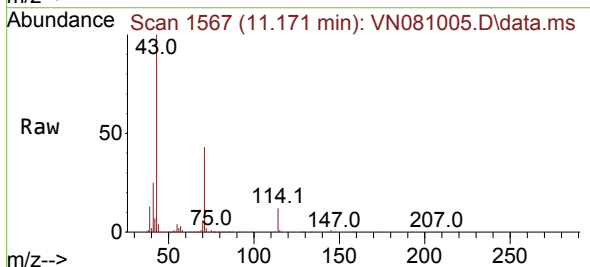
Acq: 12 Feb 2024 14:57

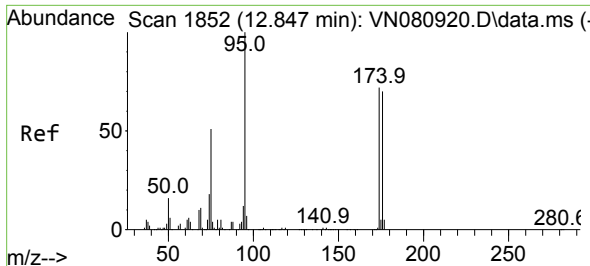
Tgt Ion: 43 Resp: 221107

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

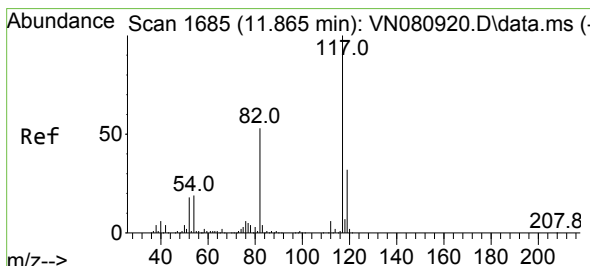
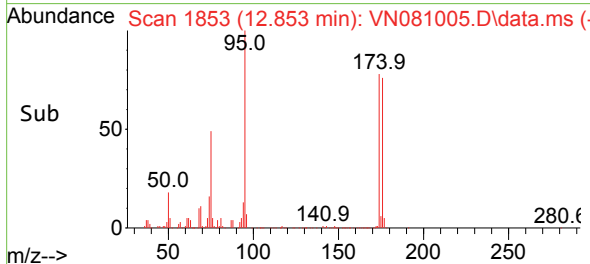
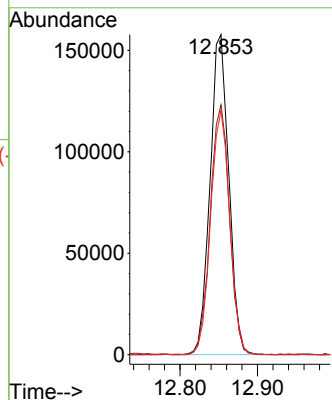
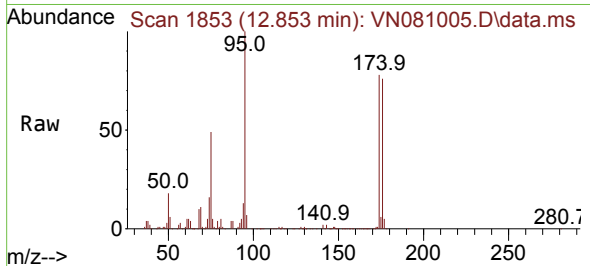




#62
4-Bromofluorobenzene
Concen: 47.917 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

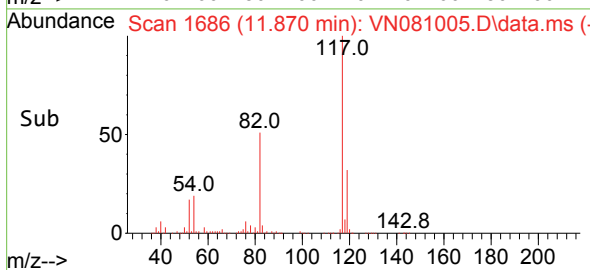
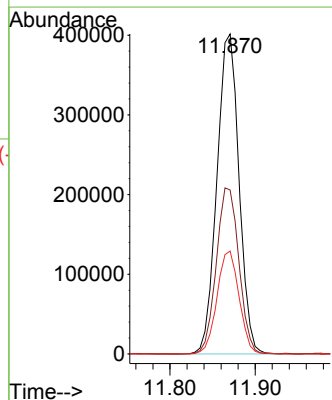
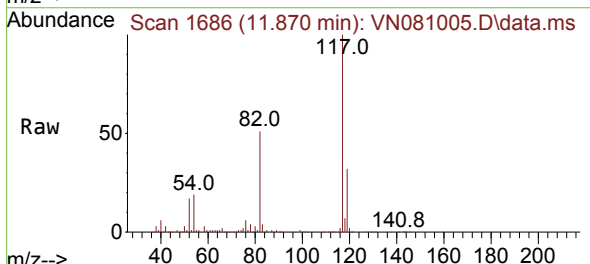
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

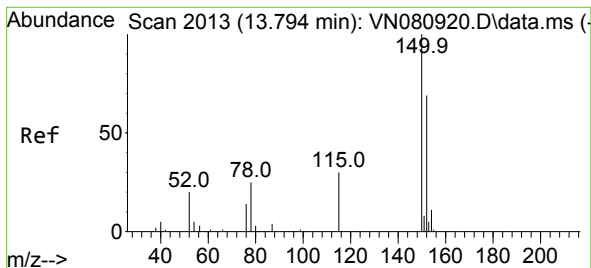
Tgt Ion: 95 Resp: 265370
Ion Ratio Lower Upper
95 100
174 80.6 0.0 120.4
176 77.1 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 117 Resp: 722638
Ion Ratio Lower Upper
117 100
82 51.3 52.7 79.1#
119 32.2 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

PB158948TB

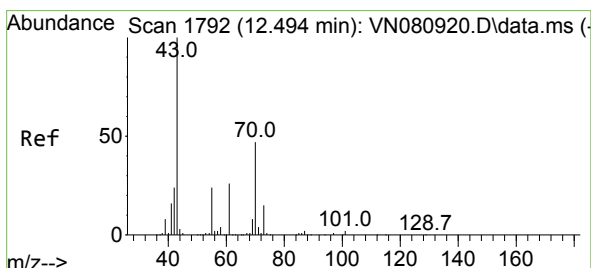
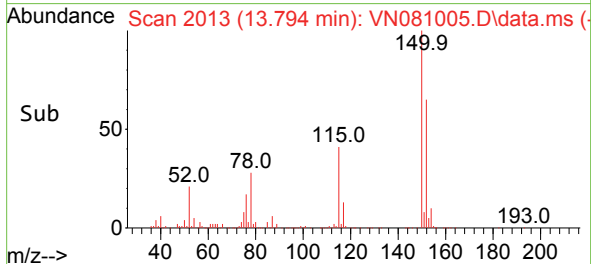
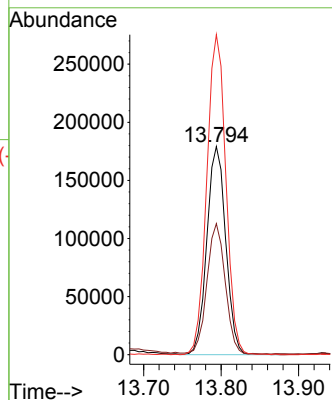
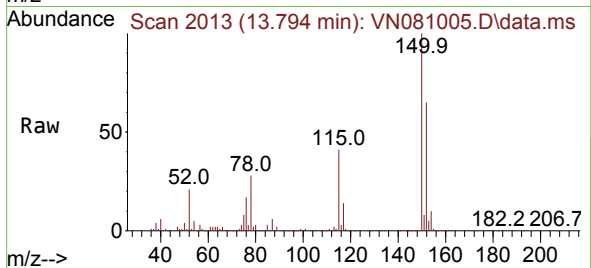
Tgt Ion:152 Resp: 303276

Ion Ratio Lower Upper

152 100

115 60.8 32.3 96.8

150 154.9 0.0 339.8



#74

N-ethyl acetate

Concen: 0.231 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.018 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Tgt Ion: 43 Resp: 1960

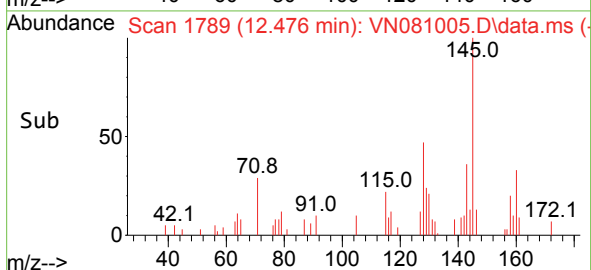
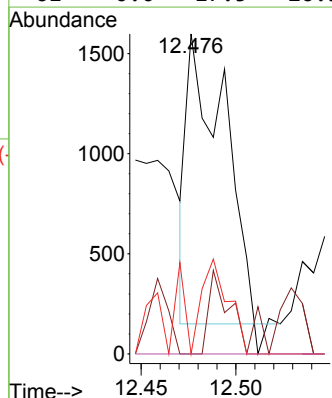
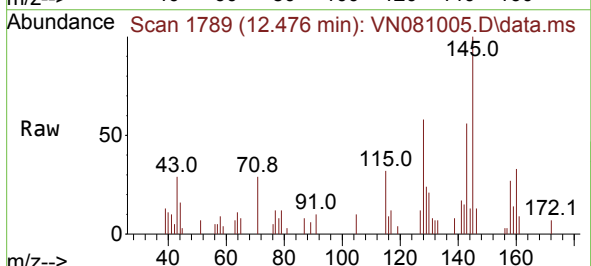
Ion Ratio Lower Upper

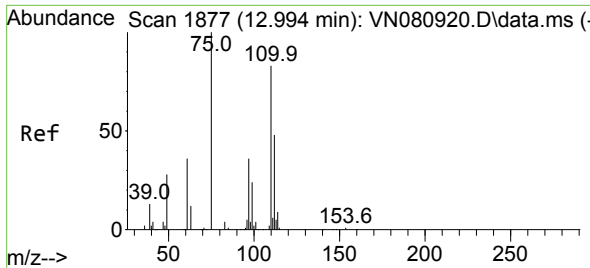
43 100

70 0.0 30.1 45.1#

55 8.2 17.0 25.4#

61 0.0 17.5 26.3#

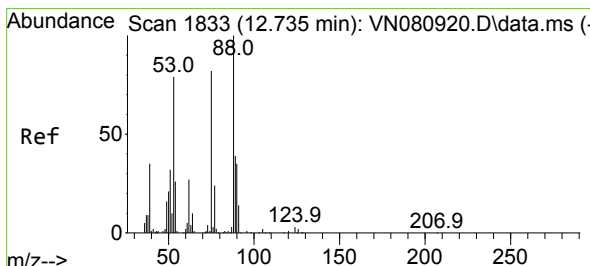
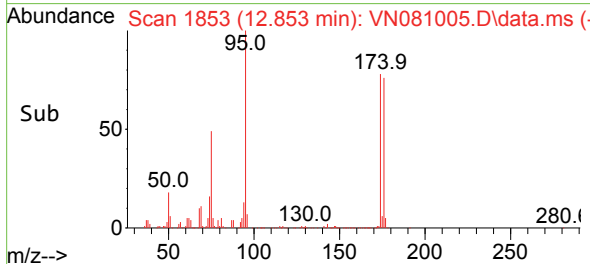
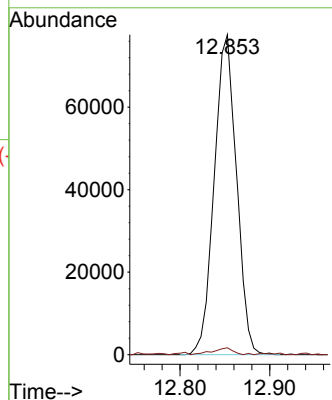
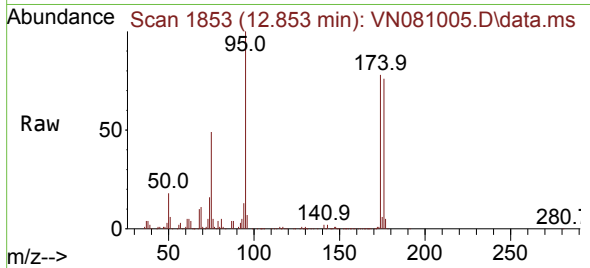




#76
1,2,3-Trichloropropane
Concen: 21.629 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

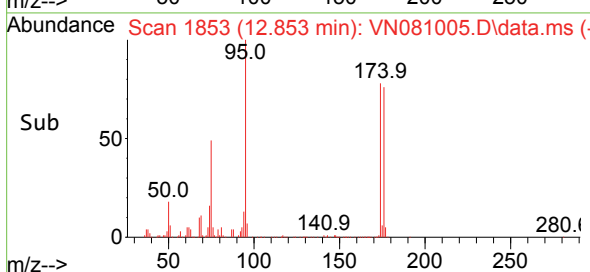
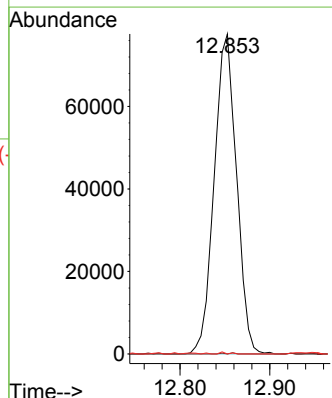
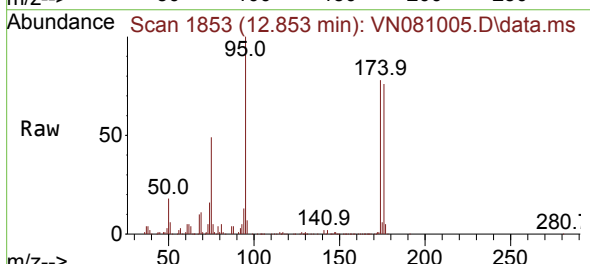
Instrument :
MSVOA_N
ClientSampleId :
PB158948TB

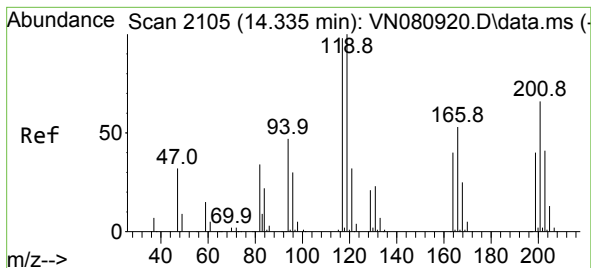
Tgt Ion: 75 Resp: 133748
Ion Ratio Lower Upper
75 100
77 1.9 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.764 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.117 min
Lab File: VN081005.D
Acq: 12 Feb 2024 14:57

Tgt Ion: 75 Resp: 133748
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.2 33.4 50.0#





#90

Hexachloroethane

Concen: 0.221 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Instrument :

MSVOA_N

ClientSampleId :

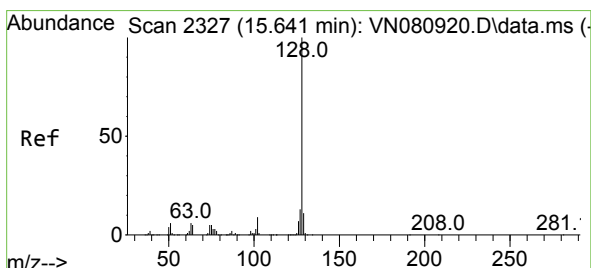
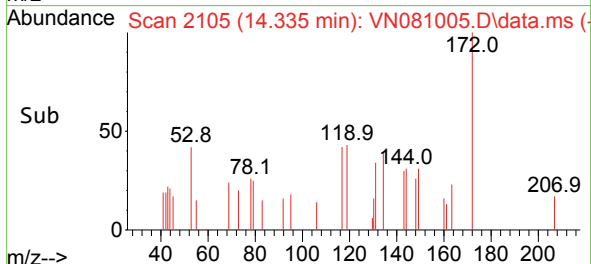
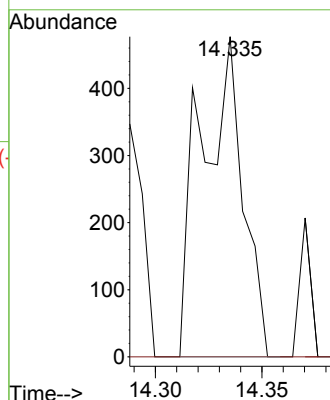
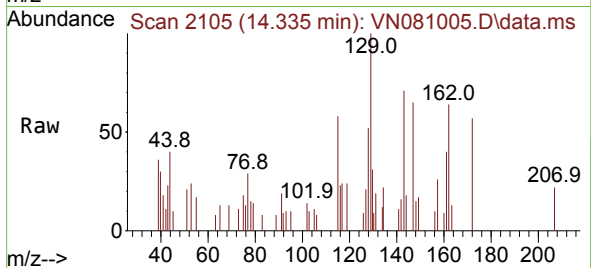
PB158948TB

Tgt Ion:117 Resp: 648

Ion Ratio Lower Upper

117 100

201 0.0 30.0 90.0#



#95

Naphthalene

Concen: 0.465 ug/l

RT: 15.653 min Scan# 2329

Delta R.T. 0.012 min

Lab File: VN081005.D

Acq: 12 Feb 2024 14:57

Tgt Ion:128 Resp: 7707

Ion Ratio Lower Upper

128 100

127 2.2 10.0 15.0#

129 26.7 8.7 13.1#

