

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
 Data File : VN081013.D
 Acq On : 12 Feb 2024 19:08
 Operator : JC\MD
 Sample : P1453-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Feb 13 03:26:06 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)

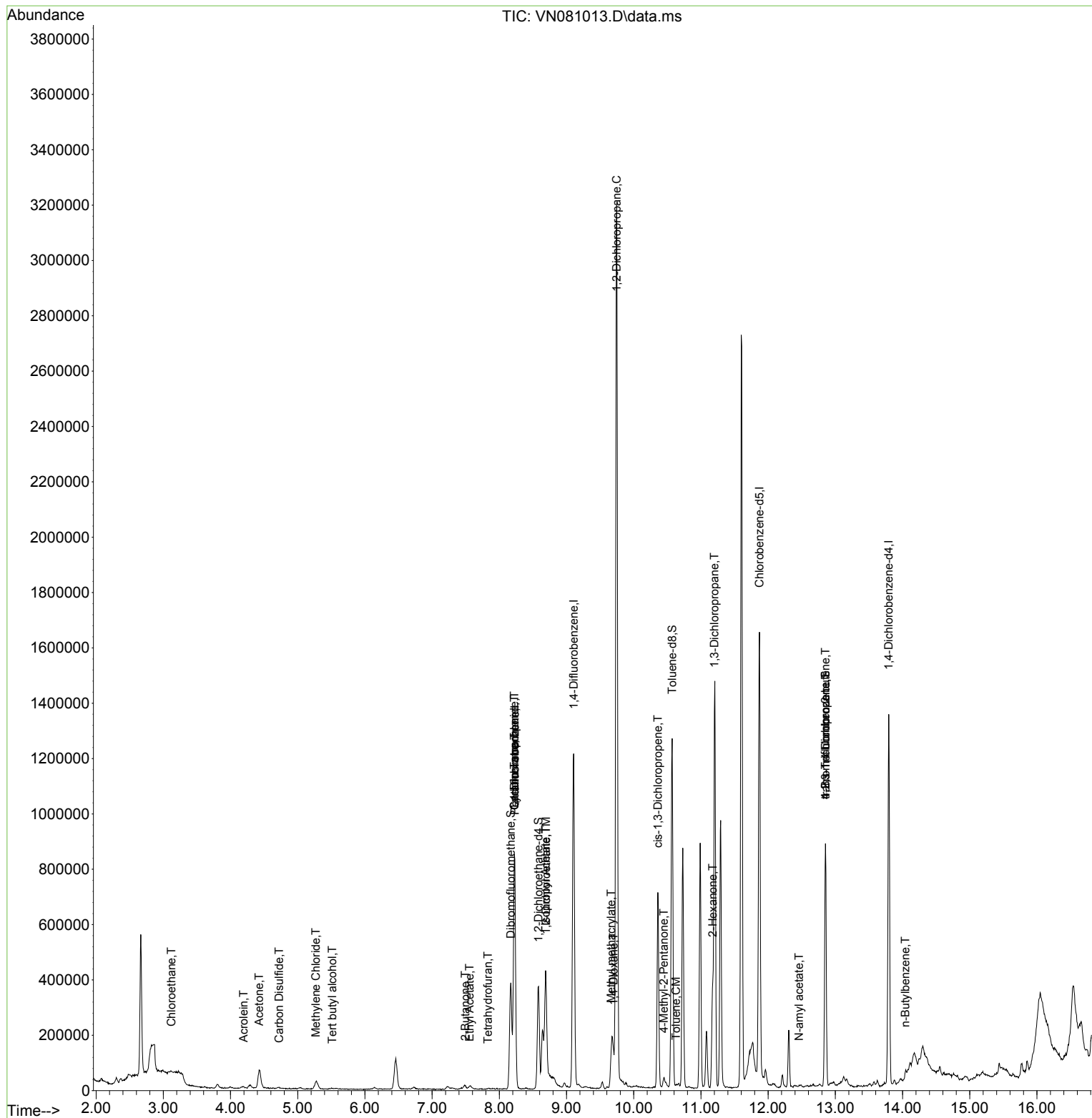
Internal Standards						
1) Pentafluorobenzene	8.230	168	688560	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.106	114	1135604	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	998451	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	376991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	300480	34.593	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	69.180%#
35) Dibromofluoromethane	8.171	113	279032	45.791	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.580%
50) Toluene-d8	10.571	98	888200	40.297	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	80.600%#
62) 4-Bromofluorobenzene	12.853	95	305498	38.154	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	76.300%#
Target Compounds						
						Qvalue
6) Chloroethane	3.118	64	2818	0.392	ug/l	# 42
11) Tert butyl alcohol	5.512	59	3819	3.191	ug/l	# 61
13) Acrolein	4.195	56	11437	7.582	ug/l	# 15
16) Acetone	4.424	43	125366	43.869	ug/l	97
17) Carbon Disulfide	4.724	76	5510	0.296	ug/l	# 77
18) Methyl Acetate	5.036	43	10840	Below Cal	#	77
20) Methylene Chloride	5.271	84	24368	2.814	ug/l	# 72
25) 2-Butanone	7.494	43	21712	4.733	ug/l	# 79
29) Tetrahydrofuran	7.830	42	3026	1.079	ug/l	# 47
31) Cyclohexane	8.224	56	11946	1.006	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	46731	5.155	ug/l	# 53
37) Ethyl Acetate	7.559	43	12849	1.873	ug/l	# 90
38) Carbon Tetrachloride	8.224	117	66176	7.121	ug/l	# 18
42) 1,2-Dichloroethane	8.694	62	3554	0.370	ug/l	80
43) Isopropyl Acetate	8.688	43	450341	35.703	ug/l	# 89
45) 1,2-Dichloropropane	9.747	63	4903	0.659	ug/l	# 42
48) Methyl methacrylate	9.665	41	10610	1.493	ug/l	# 48
49) 1,4-Dioxane	9.700	88	98800	752.947	ug/l	# 67
51) 4-Methyl-2-Pentanone	10.447	43	21409	2.816	ug/l	90
52) Toluene	10.630	92	4481	0.242	ug/l	86
54) cis-1,3-Dichloropropene	10.359	75	141555	12.102	ug/l	# 53
57) 1,3-Dichloropropane	11.200	76	17405	1.502	ug/l	# 44
59) 2-Hexanone	11.177	43	306253	53.156	ug/l	# 26
74) N-amyl acetate	12.459	43	3023	0.286	ug/l	# 60
76) 1,2,3-Trichloropropane	12.853	75	153890	20.020	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	153890	54.393	ug/l	# 14
89) n-Butylbenzene	14.041	91	10337	0.507	ug/l	# 40

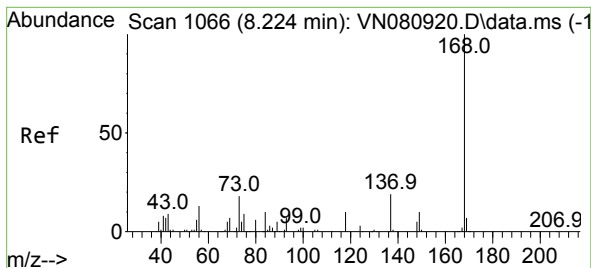
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

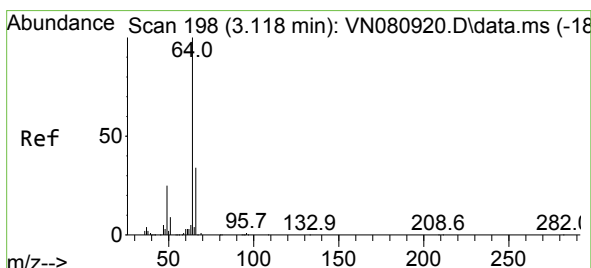
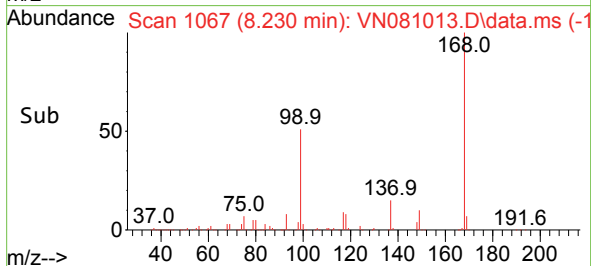
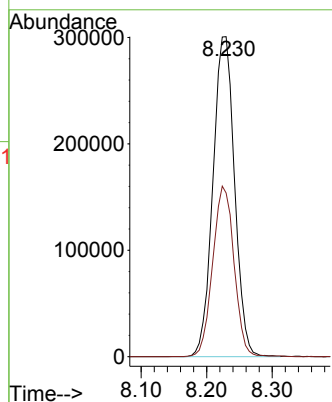
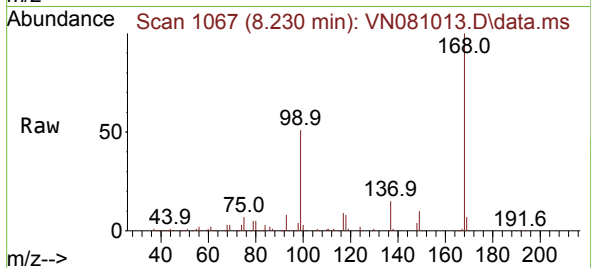
TP-2

Tgt Ion:168 Resp: 688560

Ion Ratio Lower Upper

168 100

99 51.1 59.9 89.9#



#6

Chloroethane

Concen: 0.392 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN081013.D

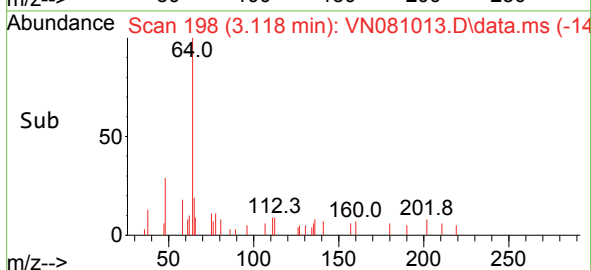
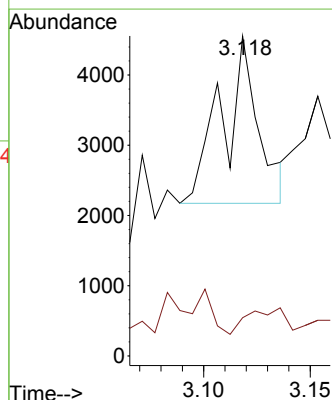
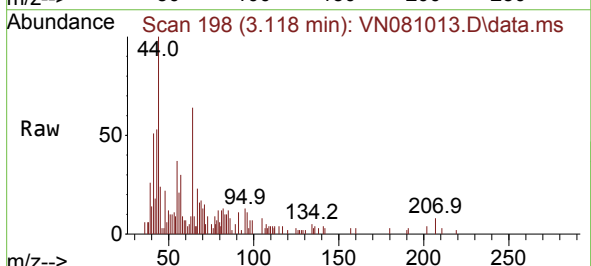
Acq: 12 Feb 2024 19:08

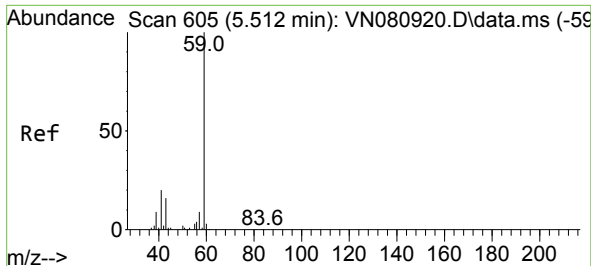
Tgt Ion: 64 Resp: 2818

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#

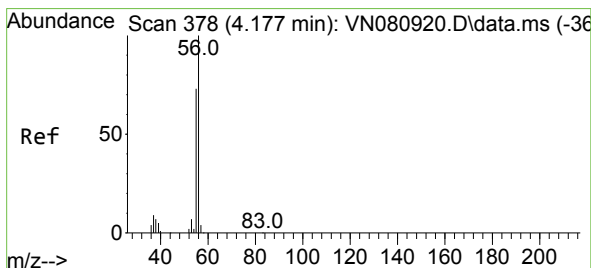
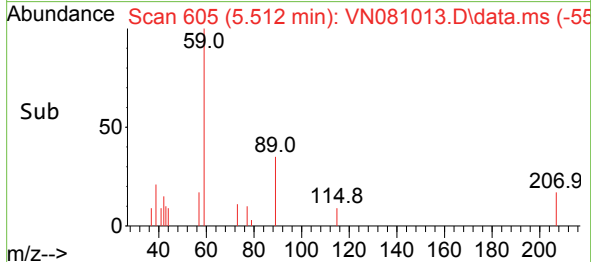
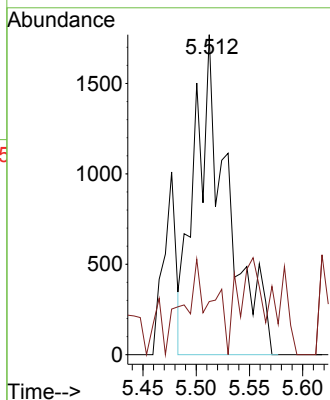
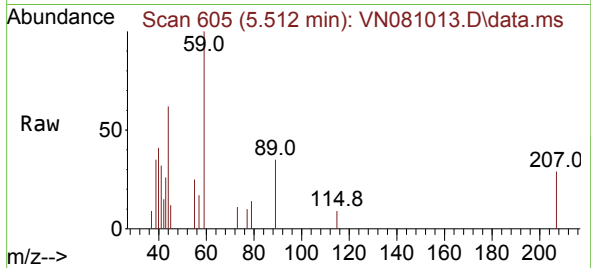




#11
Tert butyl alcohol
Concen: 3.191 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

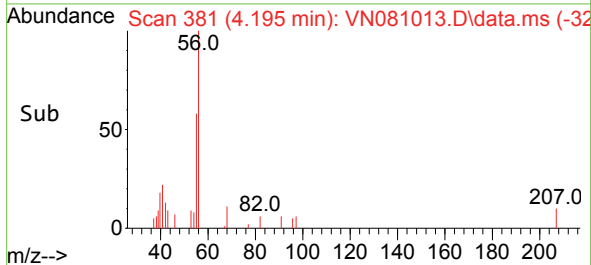
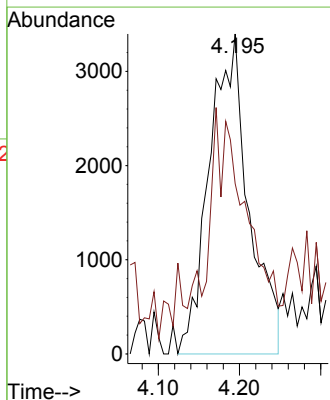
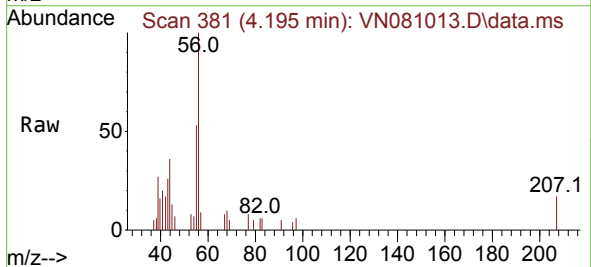
Instrument :
MSVOA_N
ClientSampleId :
TP-2

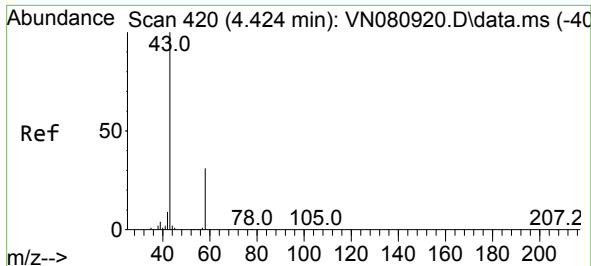
Tgt Ion: 59 Resp: 3819
Ion Ratio Lower Upper
59 100
57 25.3 8.6 12.8#



#13
Acrolein
Concen: 7.582 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 56 Resp: 11437
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#





#16

Acetone

Concen: 43.869 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

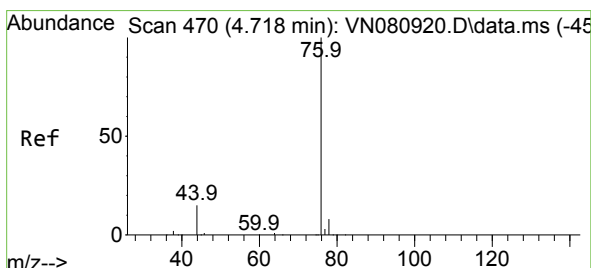
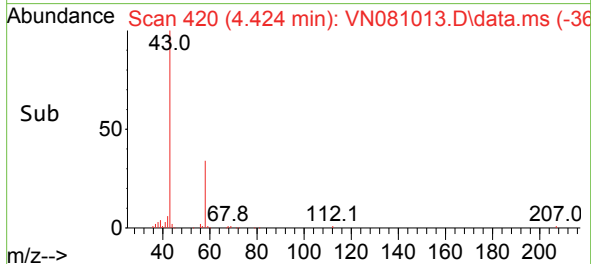
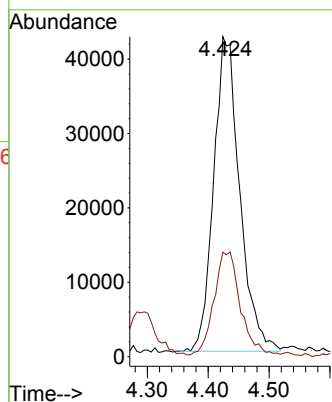
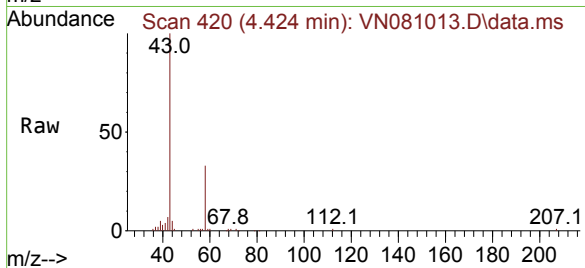
TP-2

Tgt Ion: 43 Resp: 125366

Ion Ratio Lower Upper

43 100

58 32.4 24.8 37.2



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 4.724 min Scan# 471

Delta R.T. 0.006 min

Lab File: VN081013.D

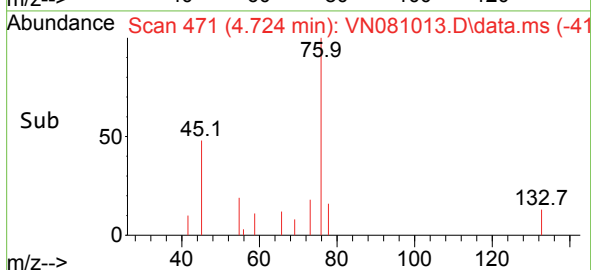
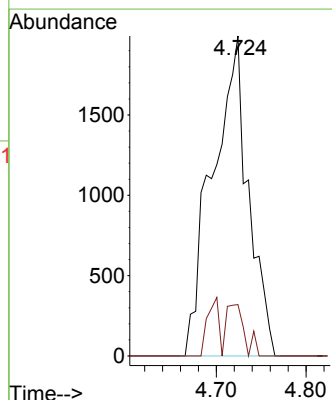
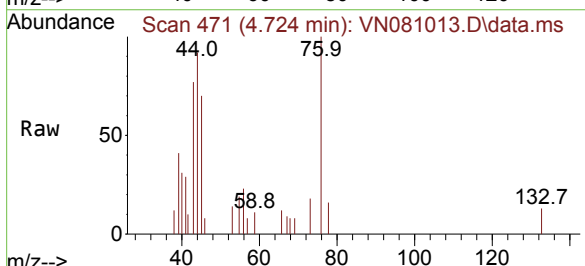
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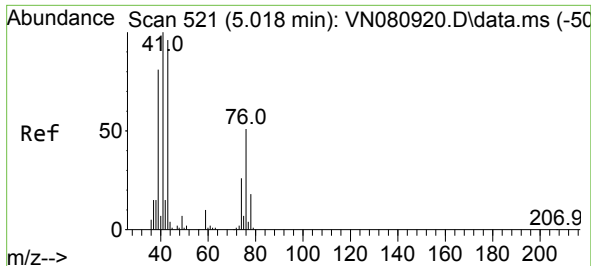
Tgt Ion: 76 Resp: 5510

Ion Ratio Lower Upper

76 100

78 16.1 6.3 9.5#

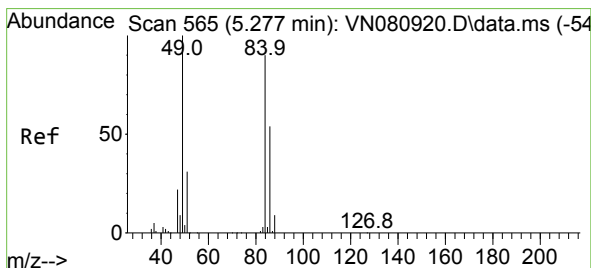
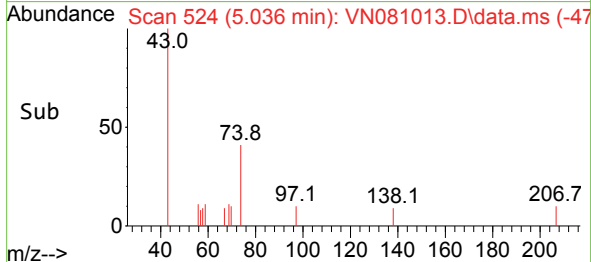
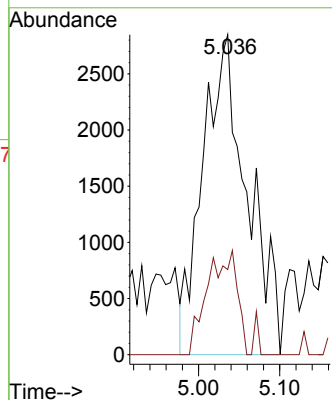
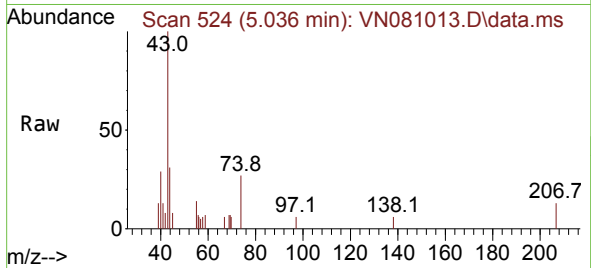




#18
Methyl Acetate
Concen: Below Cal
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

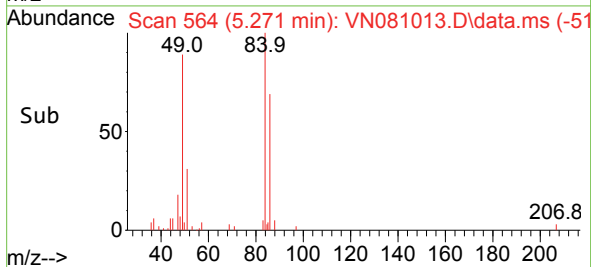
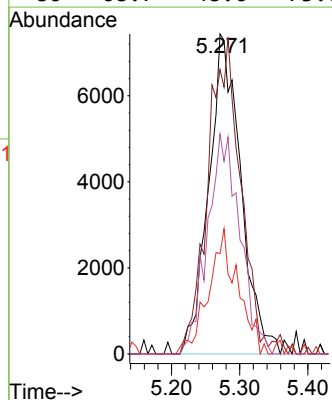
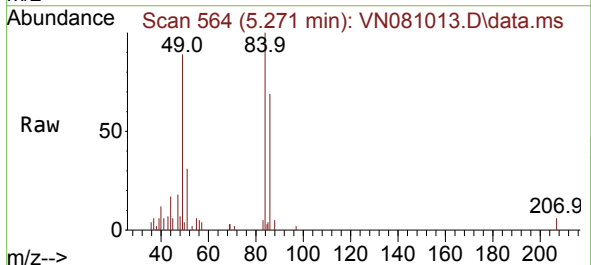
Instrument :
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ClientSampleId :
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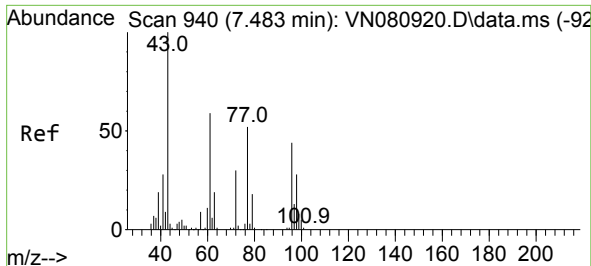
Tgt Ion: 43 Resp: 10840
Ion Ratio Lower Upper
43 100
74 10.7 17.3 25.9#



#20
Methylene Chloride
Concen: 2.814 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 84 Resp: 24368
Ion Ratio Lower Upper
84 100
49 88.9 108.1 162.1#
51 29.2 32.9 49.3#
86 68.7 48.6 73.0

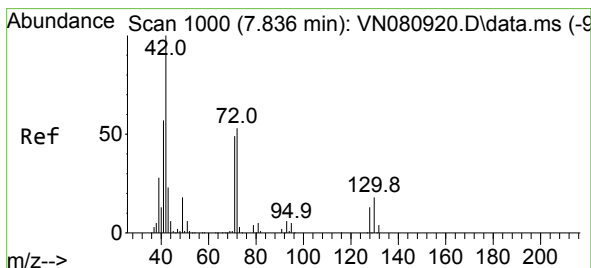
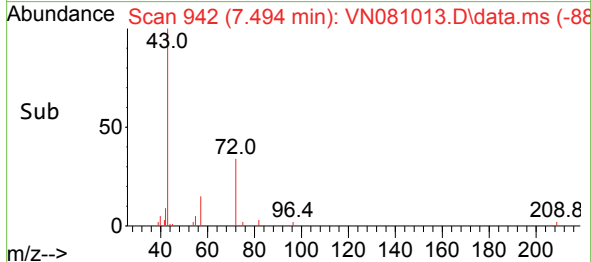
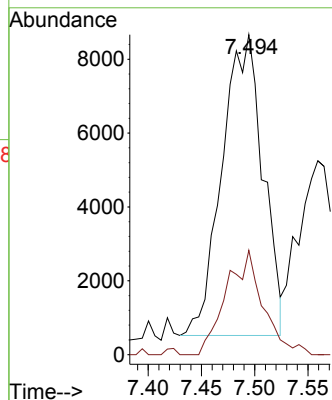
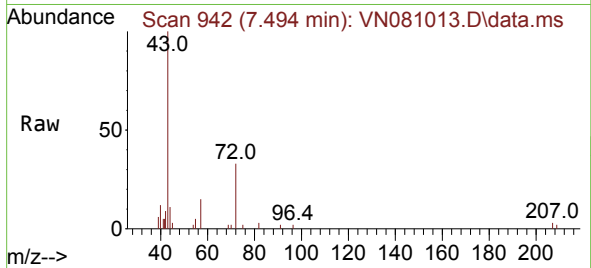




#25
2-Butanone
Concen: 4.733 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

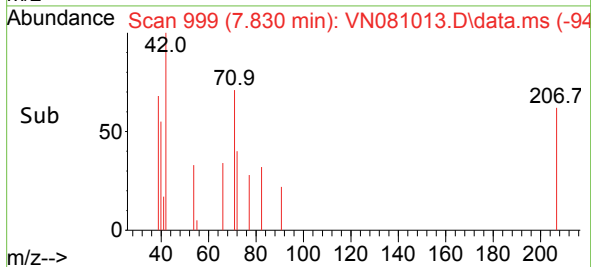
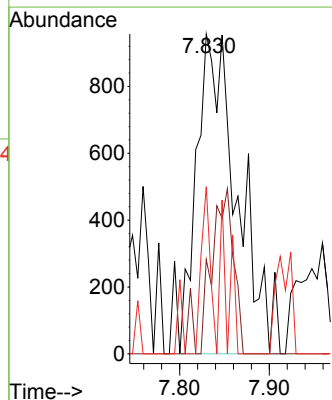
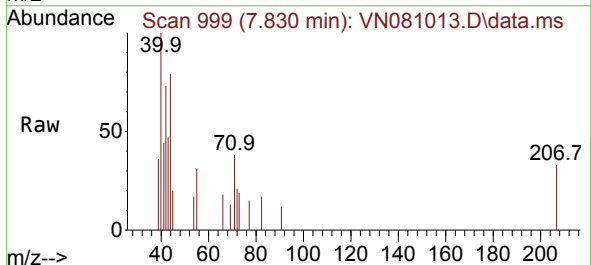
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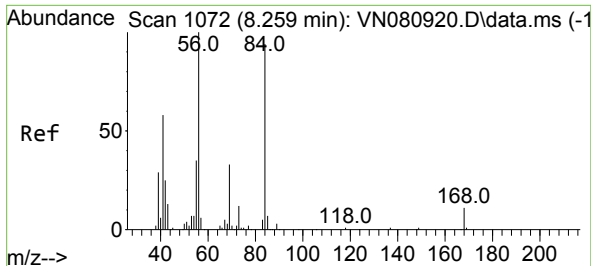
Tgt Ion: 43 Resp: 21712
Ion Ratio Lower Upper
43 100
72 34.7 19.5 29.3#



#29
Tetrahydrofuran
Concen: 1.079 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 42 Resp: 3026
Ion Ratio Lower Upper
42 100
72 0.0 31.1 46.7#
71 11.6 28.3 42.5#

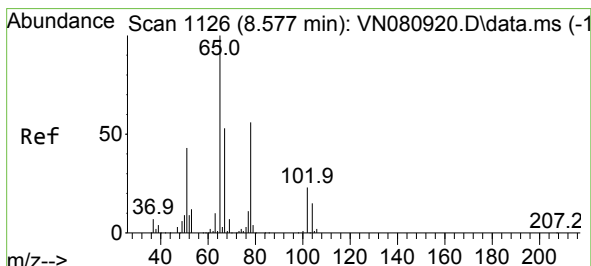
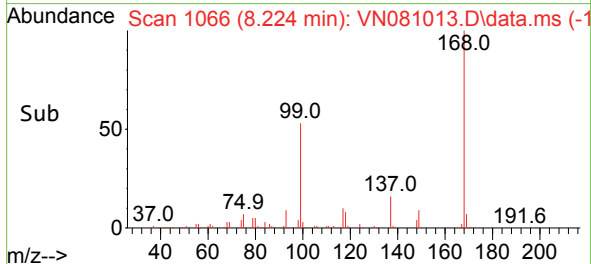
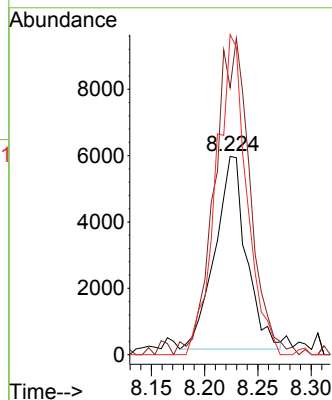
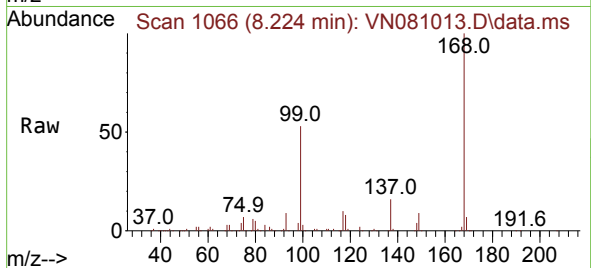




#31
Cyclohexane
Concen: 1.006 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

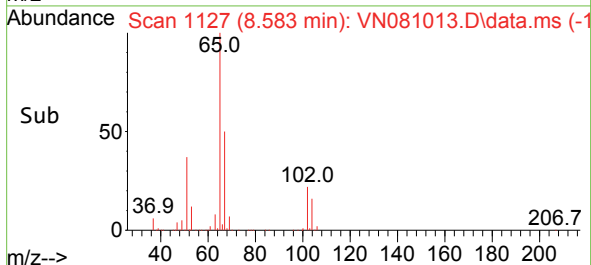
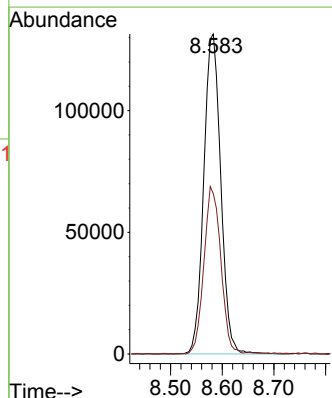
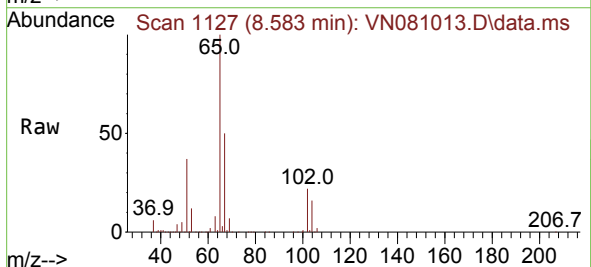
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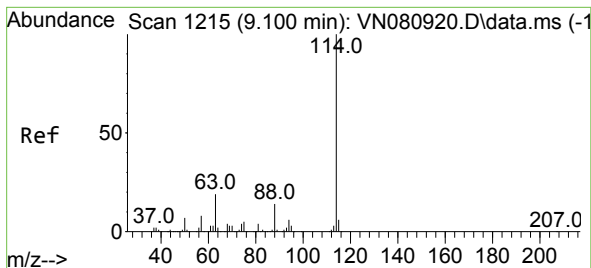
Tgt Ion: 56 Resp: 11946
Ion Ratio Lower Upper
56 100
69 131.8 20.1 30.1#
84 166.0 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 34.593 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 65 Resp: 300480
Ion Ratio Lower Upper
65 100
67 52.0 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: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

TP-2

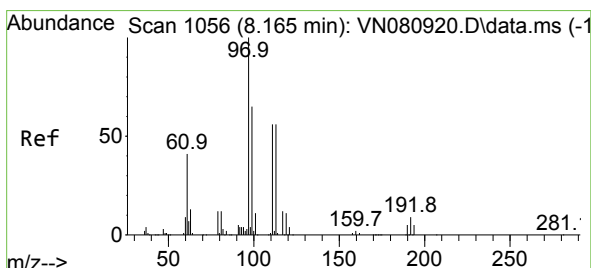
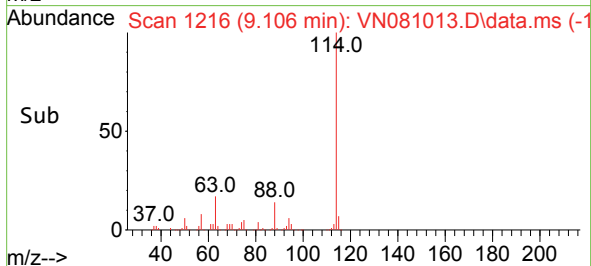
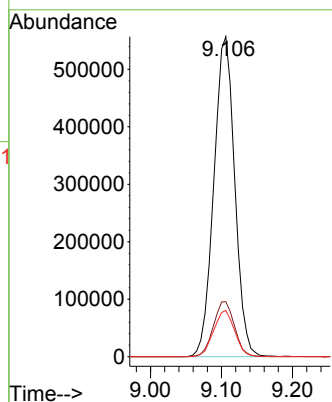
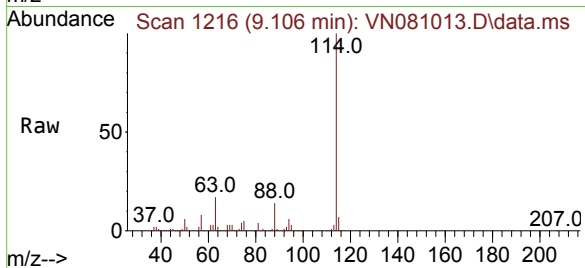
Tgt Ion:114 Resp: 1135604

Ion Ratio Lower Upper

114 100

63 17.2 0.0 48.0

88 14.5 0.0 34.8



#35

Dibromofluoromethane

Concen: 45.791 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

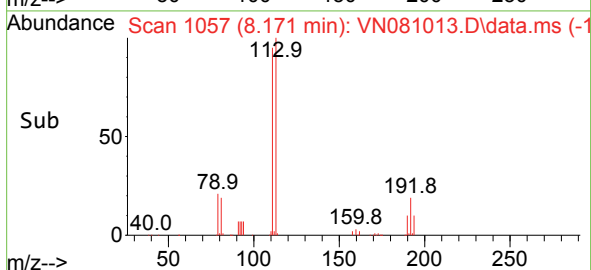
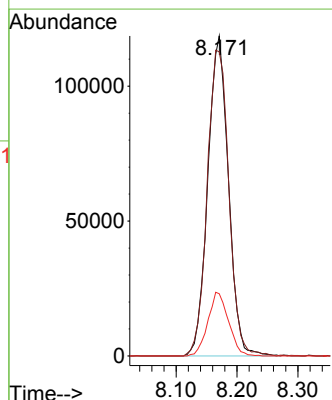
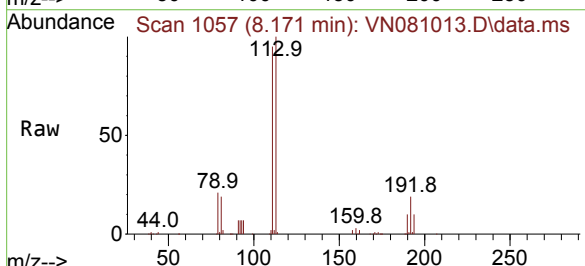
Tgt Ion:113 Resp: 279032

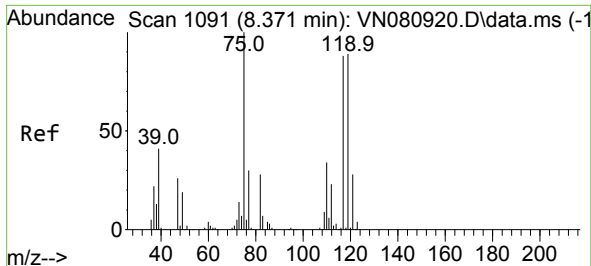
Ion Ratio Lower Upper

113 100

111 100.5 82.2 123.4

192 19.9 12.5 18.7#





#36

1,1-Dichloropropene

Concen: 5.155 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

TP-2

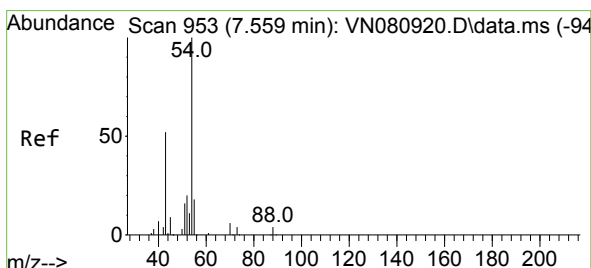
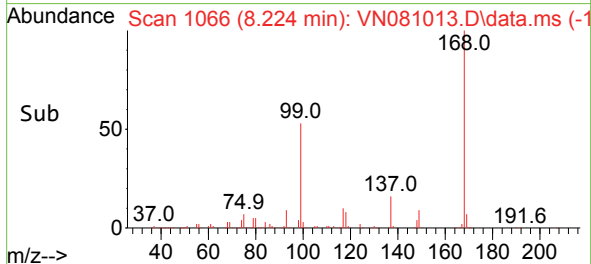
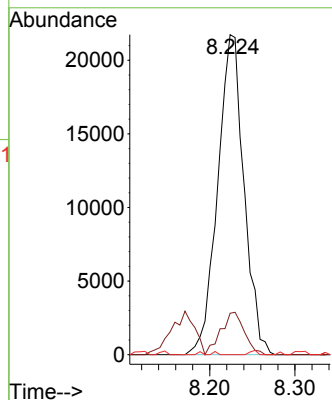
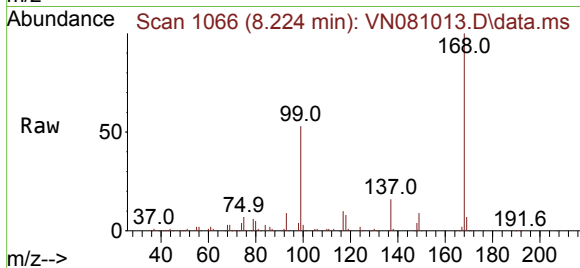
Tgt Ion: 75 Resp: 46731

Ion Ratio Lower Upper

75 100

110 11.8 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.873 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

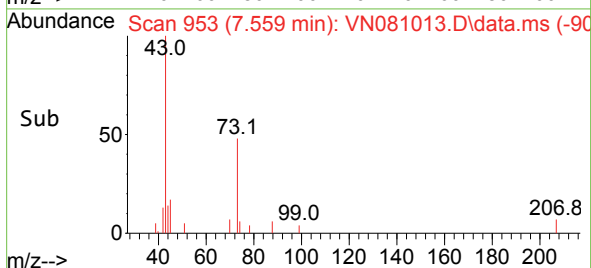
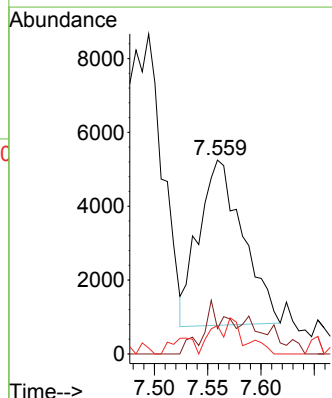
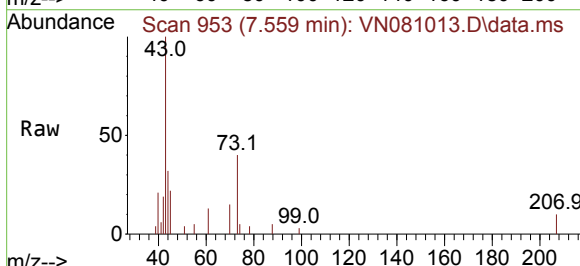
Tgt Ion: 43 Resp: 12849

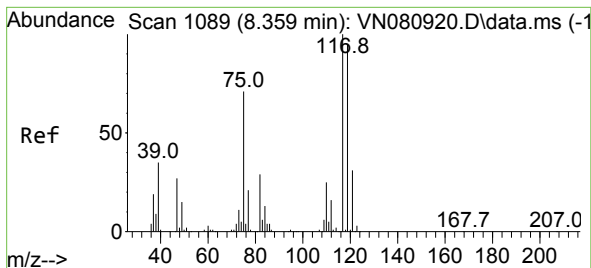
Ion Ratio Lower Upper

43 100

61 17.7 10.6 15.8#

70 12.8 8.0 12.0#





#38

Carbon Tetrachloride

Concen: 7.121 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

TP-2

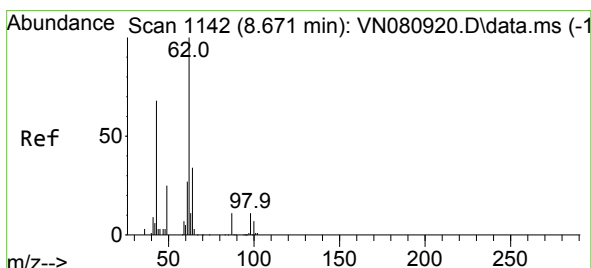
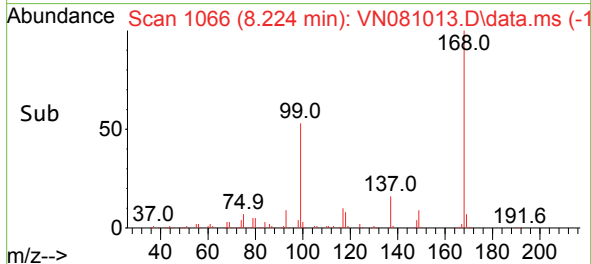
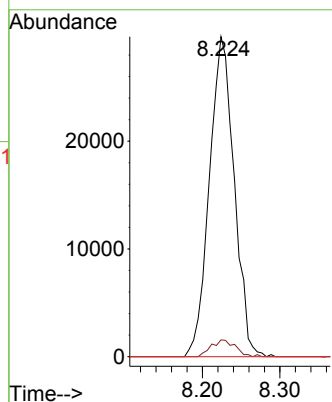
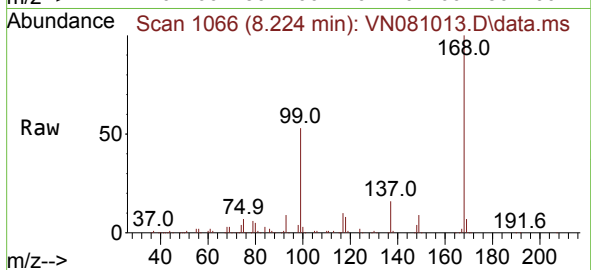
Tgt Ion:117 Resp: 66176

Ion Ratio Lower Upper

117 100

119 5.2 73.4 110.2#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.370 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.024 min

Lab File: VN081013.D

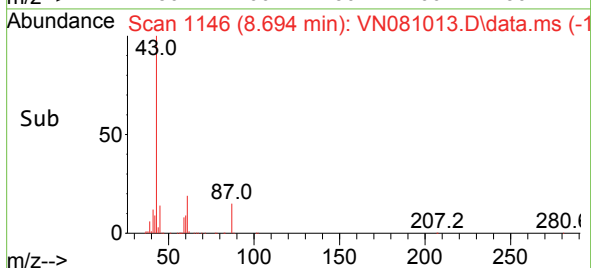
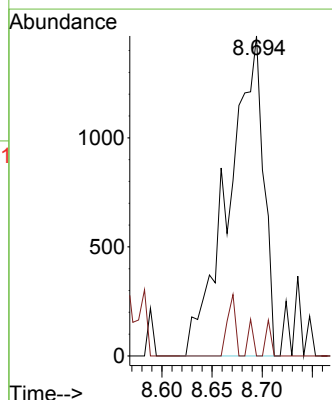
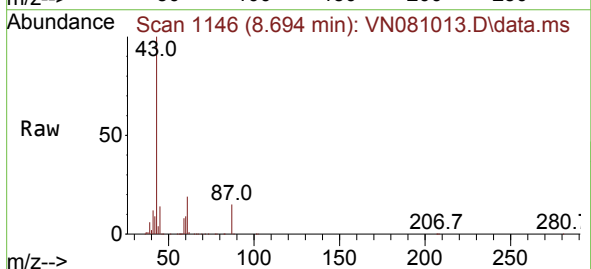
Acq: 12 Feb 2024 19:08

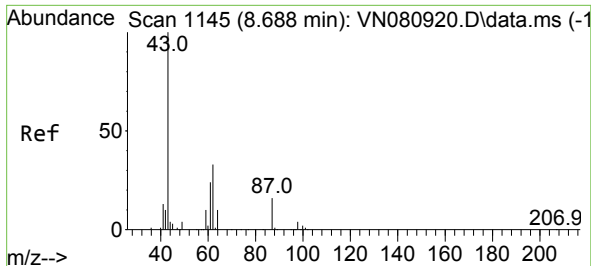
Tgt Ion: 62 Resp: 3554

Ion Ratio Lower Upper

62 100

98 1.7 0.0 18.0

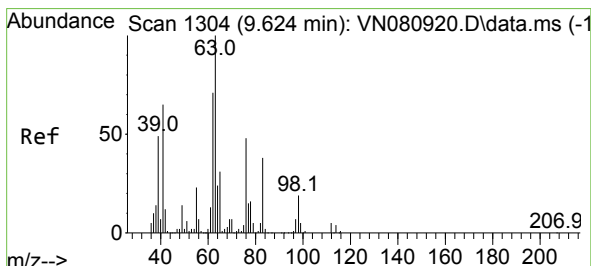
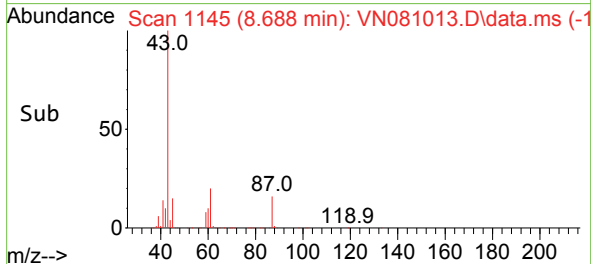
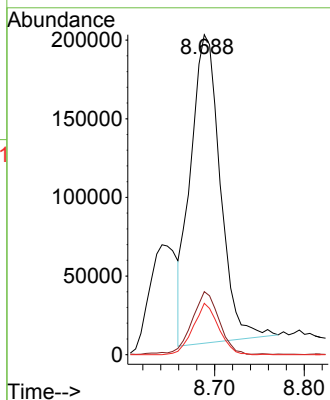
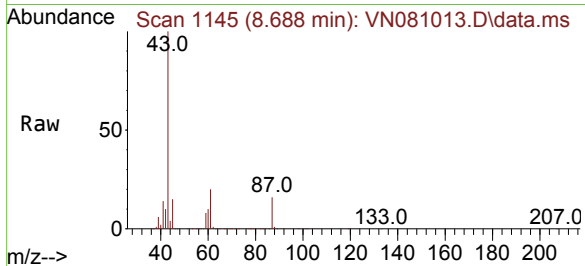




#43
Isopropyl Acetate
Concen: 35.703 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

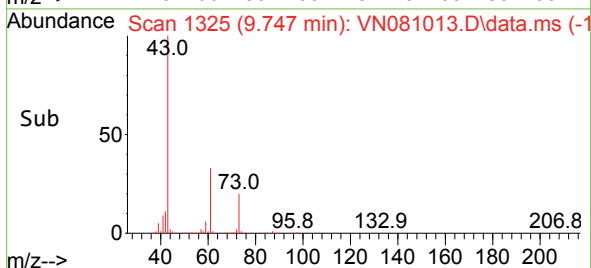
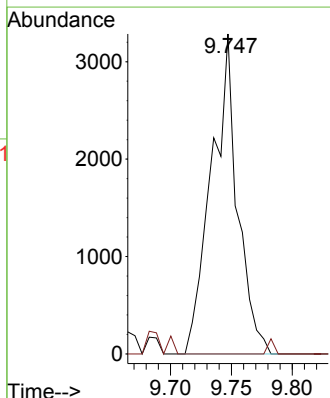
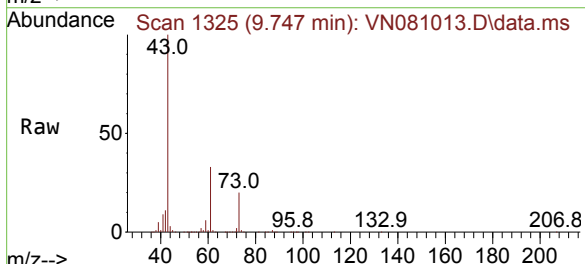
Instrument :
MSVOA_N
ClientSampleId :
TP-2

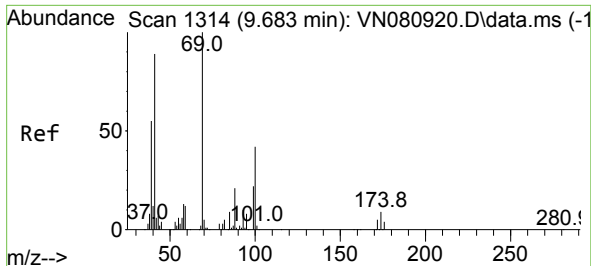
Tgt Ion: 43 Resp: 450341
Ion Ratio Lower Upper
43 100
61 18.8 19.9 29.9#
87 14.2 9.0 13.6#



#45
1,2-Dichloropropane
Concen: 0.659 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 63 Resp: 4903
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

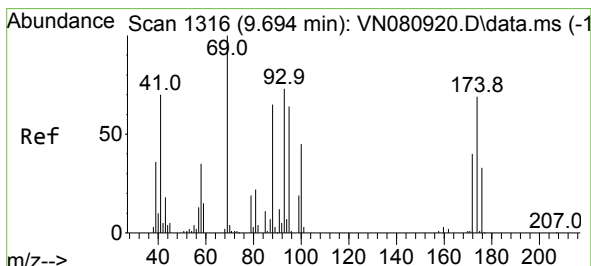
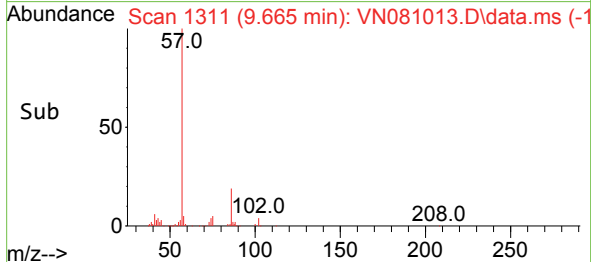
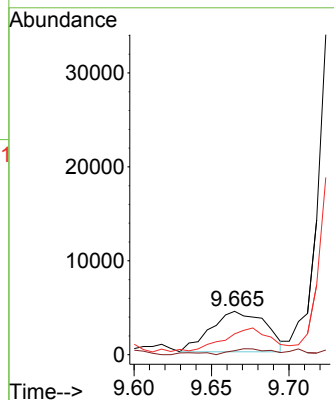
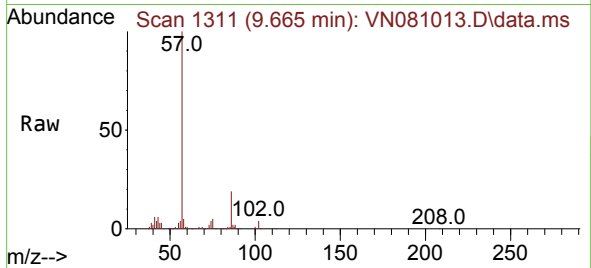




#48
Methyl methacrylate
Concen: 1.493 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

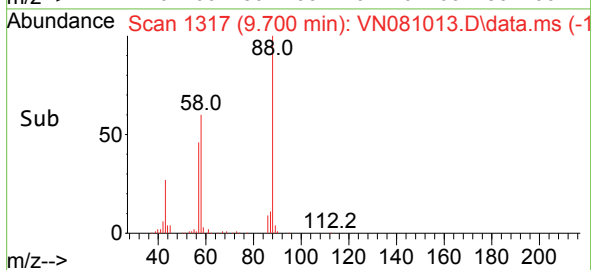
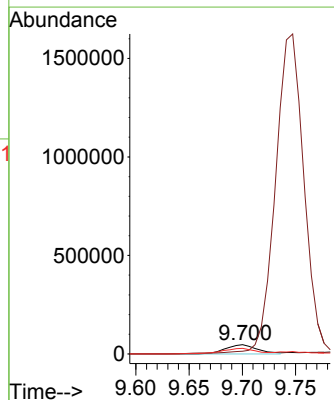
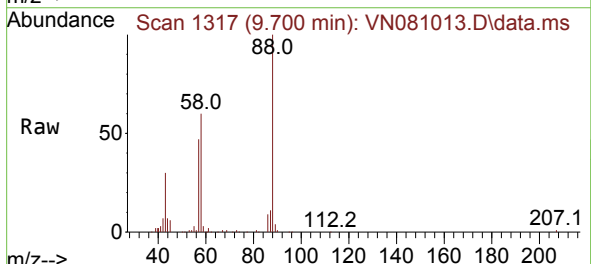
Instrument :
MSVOA_N
ClientSampleId :
TP-2

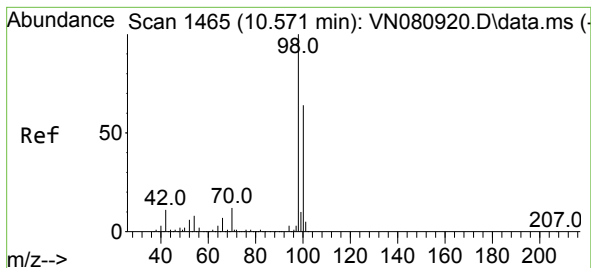
Tgt Ion: 41 Resp: 10610
Ion Ratio Lower Upper
41 100
69 10.1 62.2 93.2#
39 46.0 47.6 71.4#



#49
1,4-Dioxane
Concen: 752.947 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 88 Resp: 98800
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 63.5 63.9 95.9#

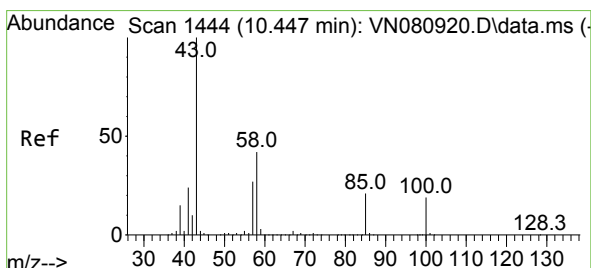
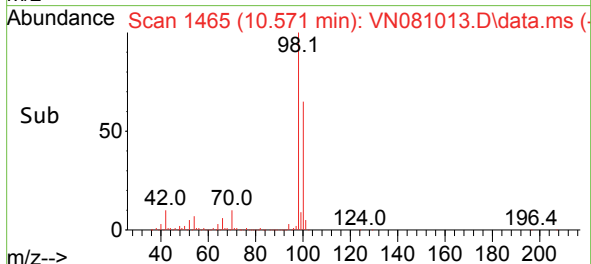
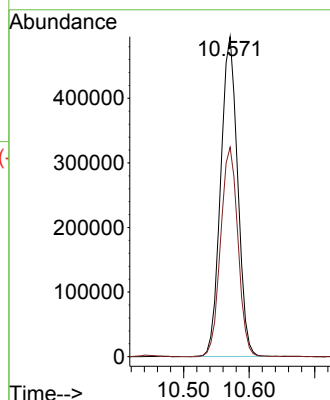
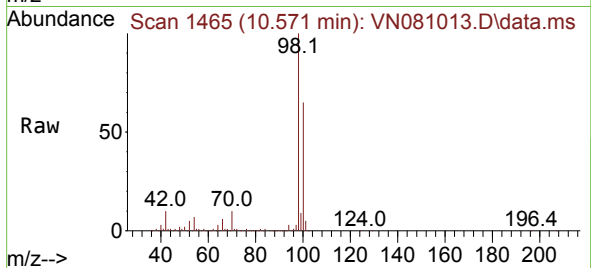




#50
Toluene-d8
Concen: 40.297 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

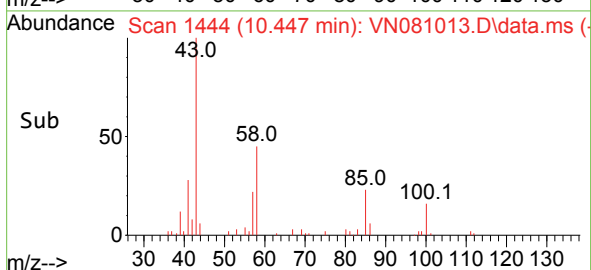
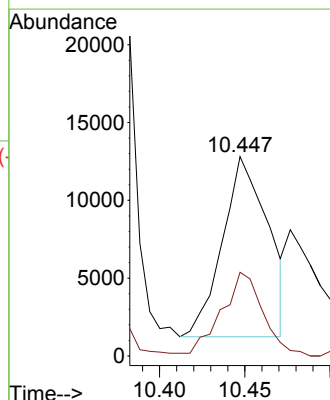
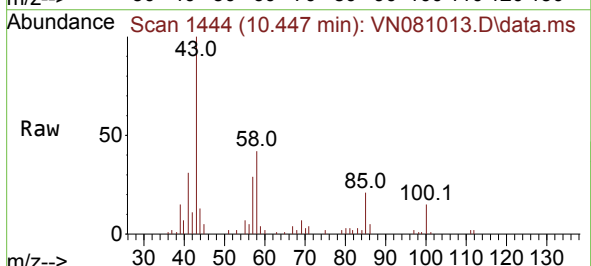
Instrument :
MSVOA_N
ClientSampleId :
TP-2

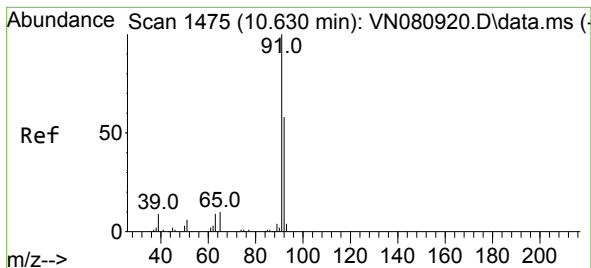
Tgt Ion: 98 Resp: 888200
Ion Ratio Lower Upper
98 100
100 66.8 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 2.816 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 43 Resp: 21409
Ion Ratio Lower Upper
43 100
58 42.9 29.4 44.0





#52

Toluene

Concen: 0.242 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

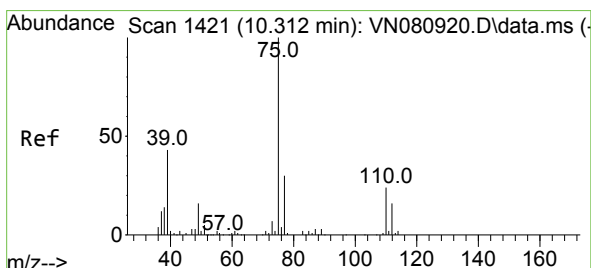
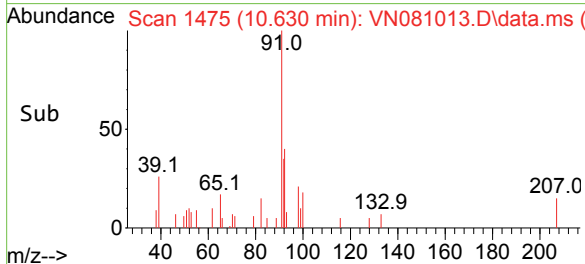
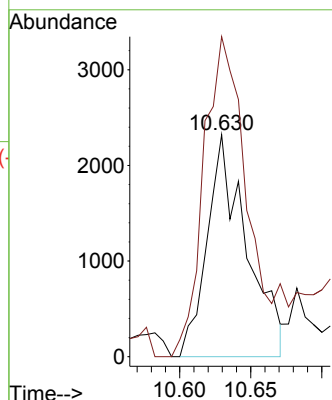
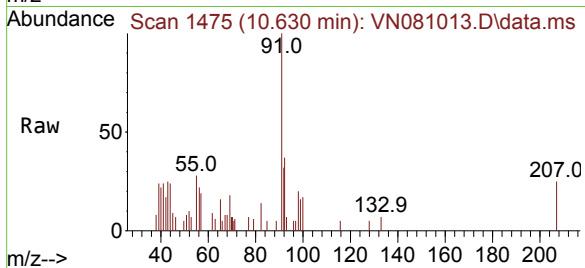
TP-2

Tgt Ion: 92 Resp: 4481

Ion Ratio Lower Upper

92 100

91 154.4 139.4 209.0



#54

cis-1,3-Dichloropropene

Concen: 12.102 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

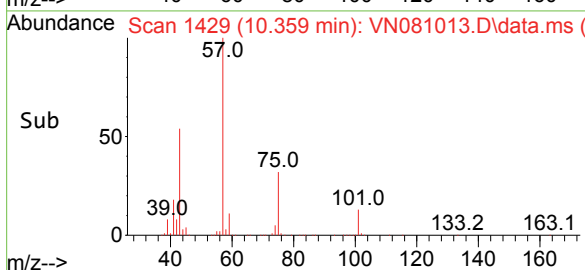
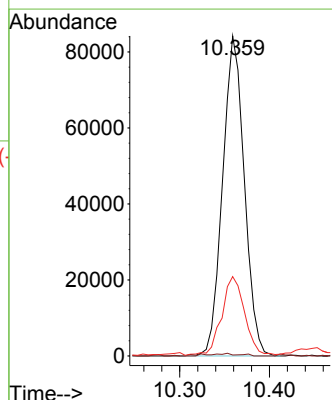
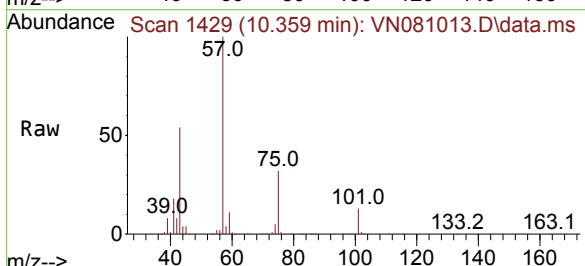
Tgt Ion: 75 Resp: 141555

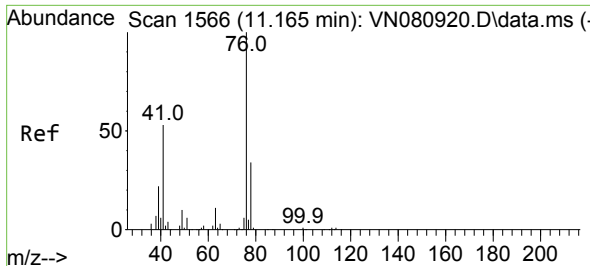
Ion Ratio Lower Upper

75 100

77 0.3 23.3 34.9#

39 24.2 44.6 66.8#

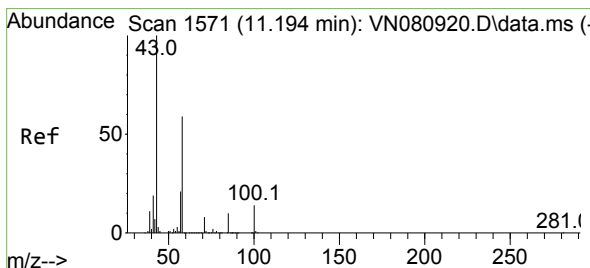
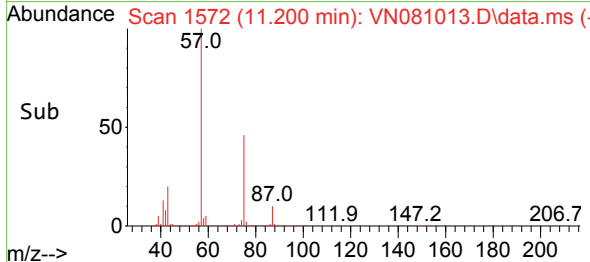
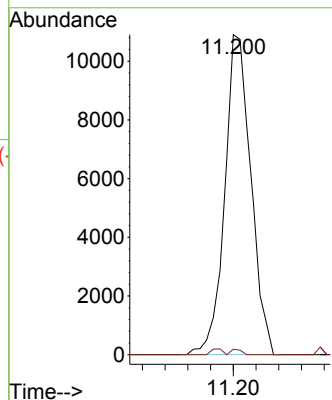
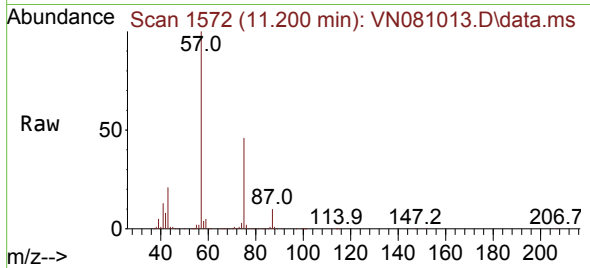




#57
1,3-Dichloropropane
Concen: 1.502 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

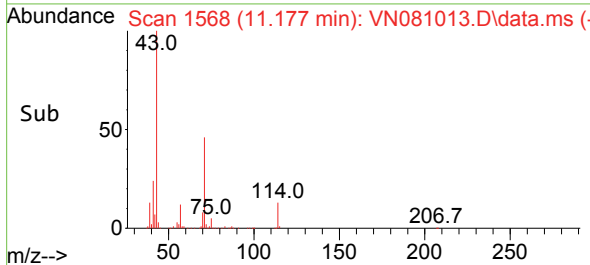
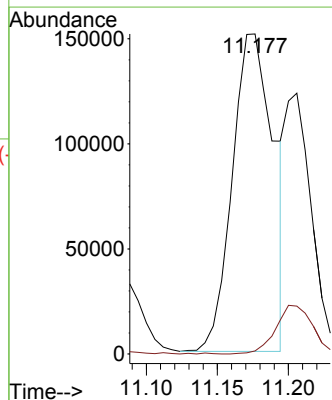
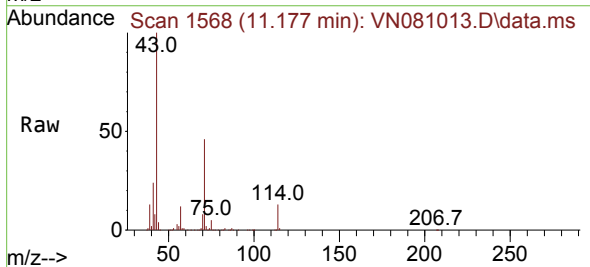
Instrument :
MSVOA_N
ClientSampleId :
TP-2

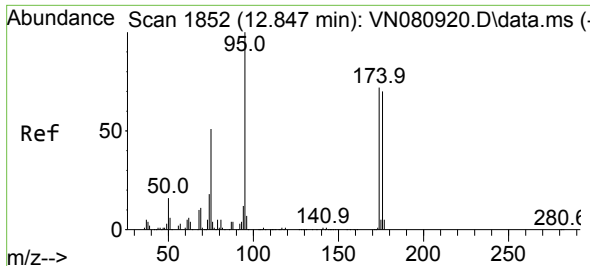
Tgt Ion: 76 Resp: 17405
Ion Ratio Lower Upper
76 100
78 0.7 25.5 38.3#



#59
2-Hexanone
Concen: 53.156 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.018 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 43 Resp: 306253
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

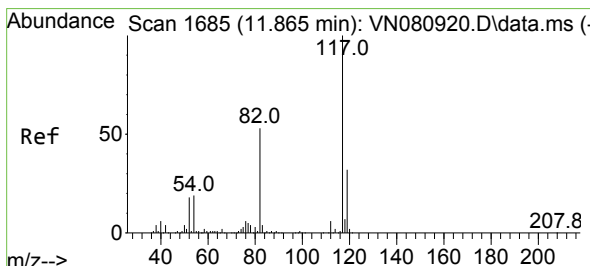
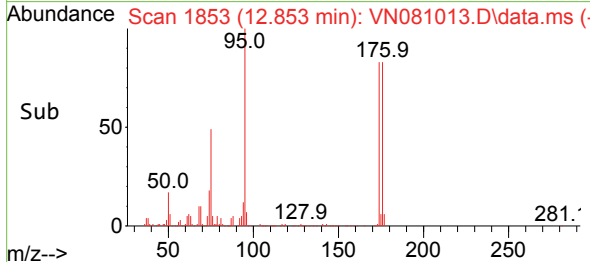
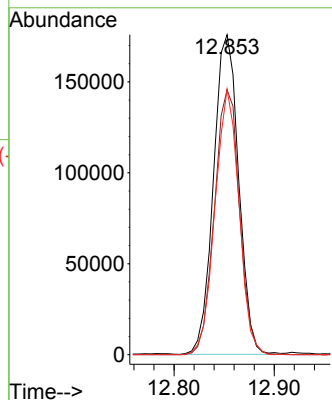
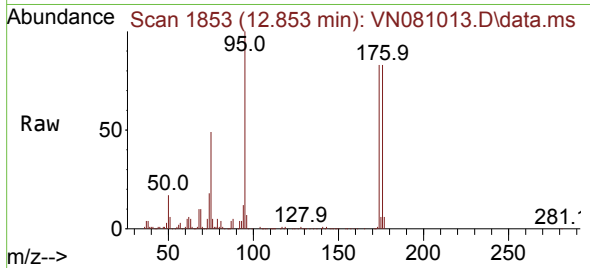




#62
4-Bromofluorobenzene
Concen: 38.154 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

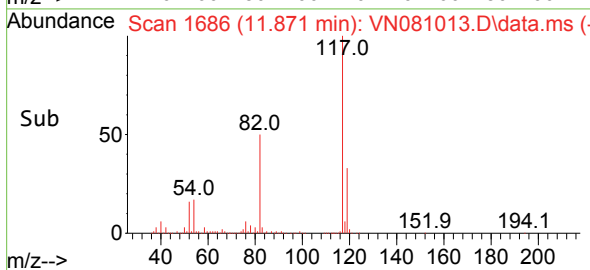
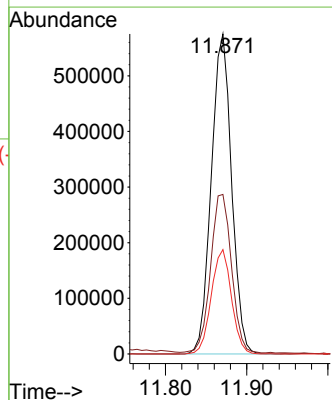
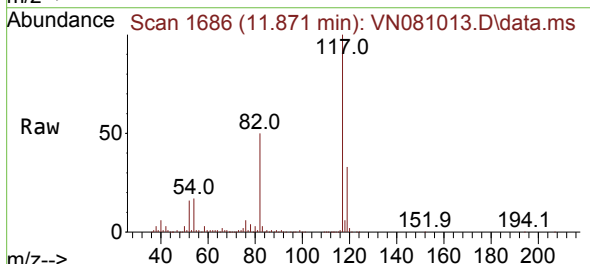
Instrument :
MSVOA_N
ClientSampleId :
TP-2

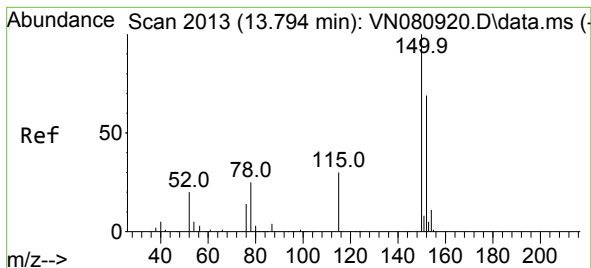
Tgt Ion: 95 Resp: 305498
Ion Ratio Lower Upper
95 100
174 82.6 0.0 120.4
176 79.0 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 117 Resp: 998451
Ion Ratio Lower Upper
117 100
82 49.5 52.7 79.1#
119 32.6 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: VN081013.D

Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

TP-2

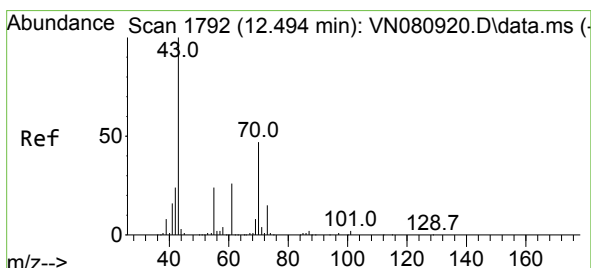
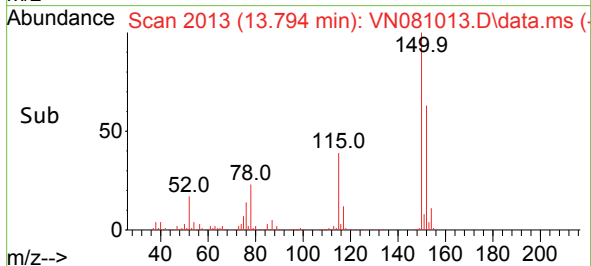
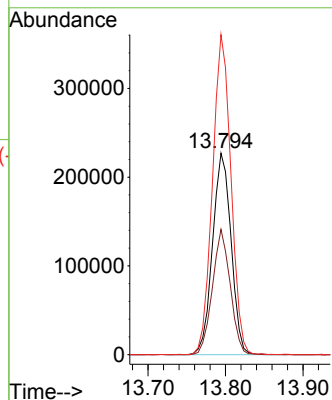
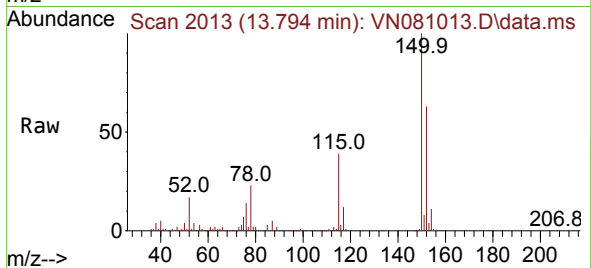
Tgt Ion:152 Resp: 376991

Ion Ratio Lower Upper

152 100

115 59.7 32.3 96.8

150 158.4 0.0 339.8



#74

N-ethyl acetate

Concen: 0.286 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN081013.D

Acq: 12 Feb 2024 19:08

Tgt Ion: 43 Resp: 3023

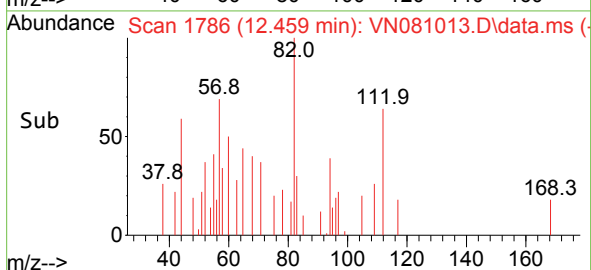
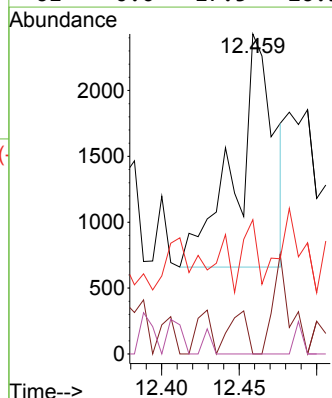
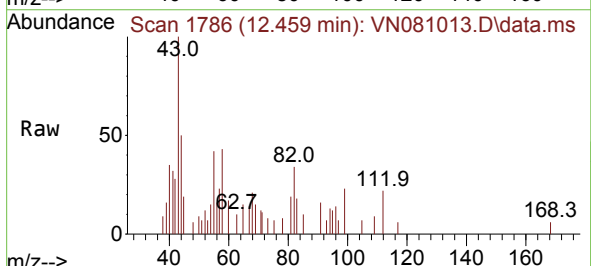
Ion Ratio Lower Upper

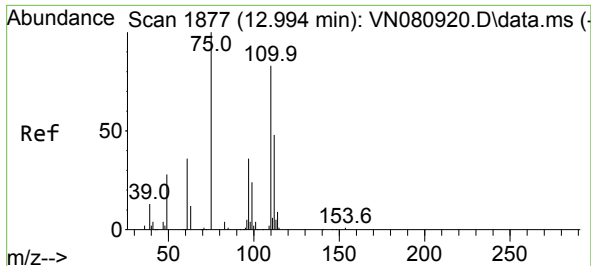
43 100

70 8.9 30.1 45.1#

55 11.9 17.0 25.4#

61 0.0 17.5 26.3#

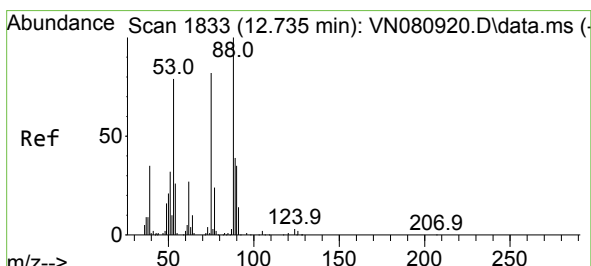
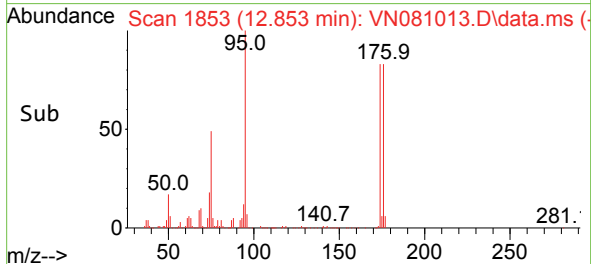
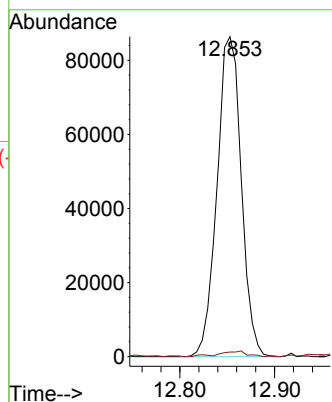
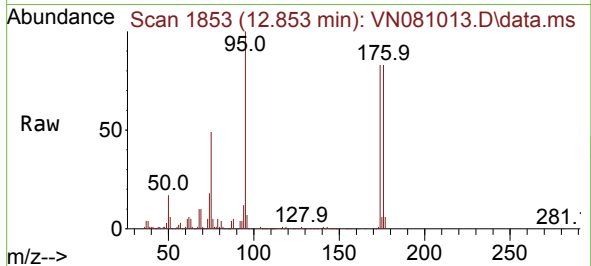




#76
1,2,3-Trichloropropane
Concen: 20.020 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

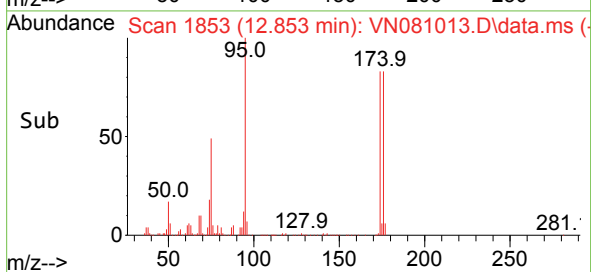
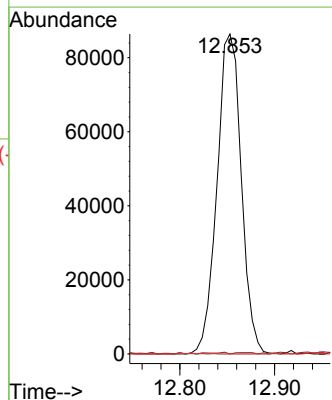
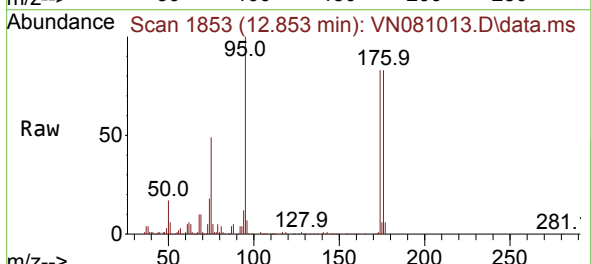
Instrument :
MSVOA_N
ClientSampleId :
TP-2

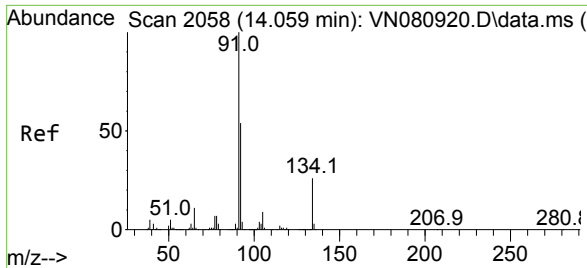
Tgt Ion: 75 Resp: 153890
Ion Ratio Lower Upper
75 100
77 1.7 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.393 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN081013.D
Acq: 12 Feb 2024 19:08

Tgt Ion: 75 Resp: 153890
Ion Ratio Lower Upper
75 100
53 0.3 71.4 107.2#
89 0.0 33.4 50.0#





#89

n-Butylbenzene

Concen: 0.507 ug/l

RT: 14.041 min Scan# 2055

Delta R.T. -0.018 min

Lab File: VN081013.D

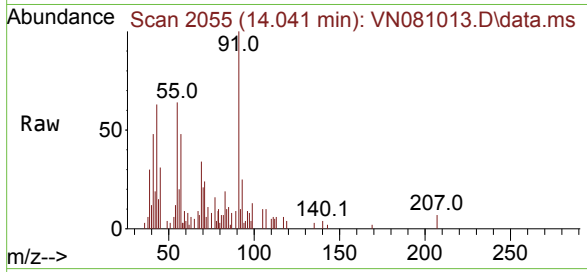
Acq: 12 Feb 2024 19:08

Instrument :

MSVOA_N

ClientSampleId :

TP-2



Tgt Ion: 91 Resp: 10337

Ion Ratio Lower Upper

91 100

92 6.6 26.7 80.1#

134 0.0 10.8 32.4#

