

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080420.D
 Acq On : 08 Dec 2023 20:44
 Operator : JC\MD
 Sample : 05671-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:47:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

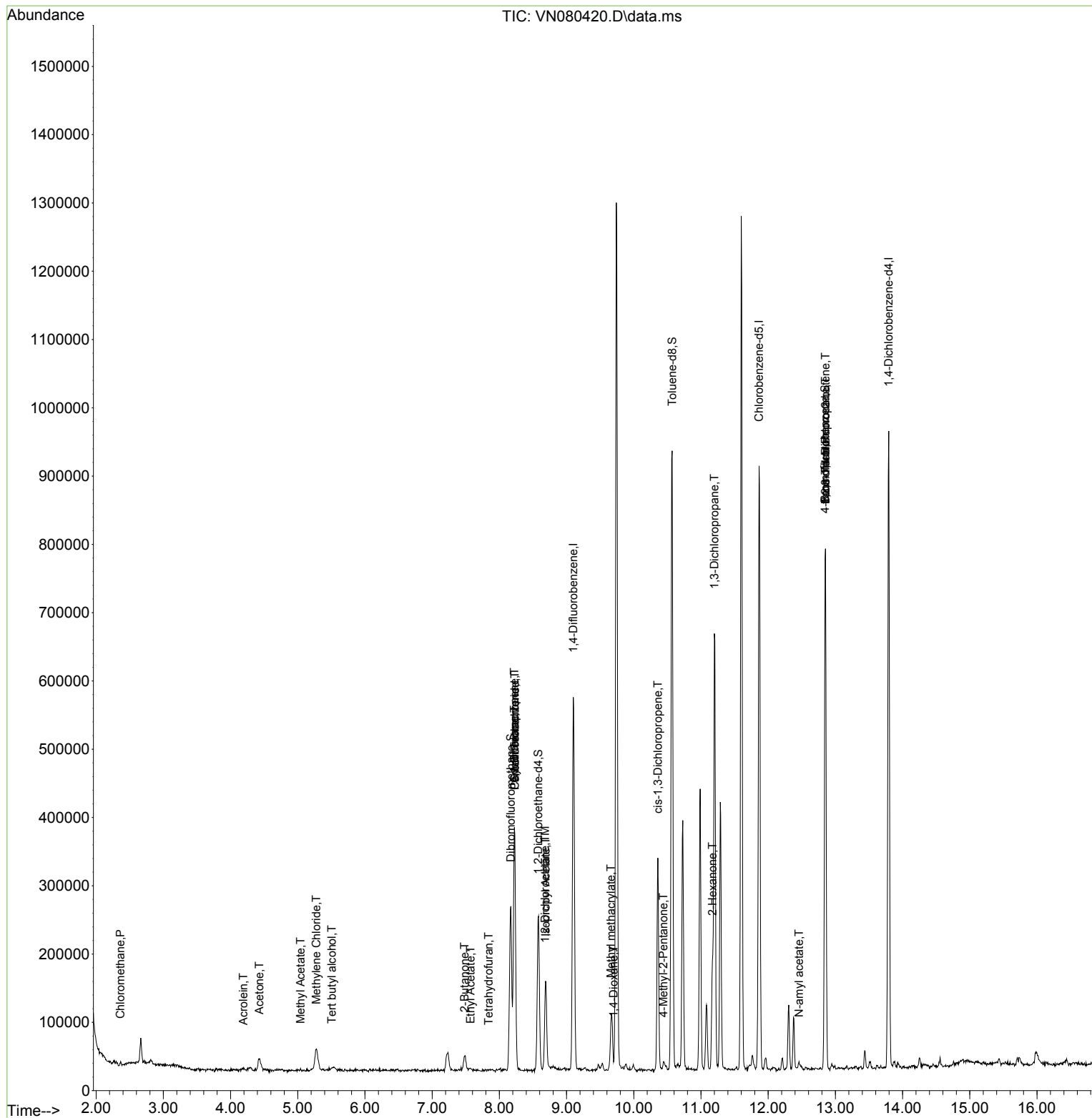
Internal Standards						
1) Pentafluorobenzene	8.230	168	260618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	476282	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	517110	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	256674	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	199184	46.287	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.580%		
35) Dibromofluoromethane	8.171	113	167872	47.768	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.540%		
50) Toluene-d8	10.571	98	648100	51.159	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.320%		
62) 4-Bromofluorobenzene	12.847	95	280922	58.708	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	117.420%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	4005	1.372	ug/l	96
6) Chloroethane	3.118	64	399	Below Cal	#	84
11) Tert butyl alcohol	5.506	59	4032	8.520	ug/l	95
13) Acrolein	4.189	56	2663	6.359	ug/l	94
16) Acetone	4.430	43	32563	22.530	ug/l	98
18) Methyl Acetate	5.042	43	2476	0.533	ug/l	# 51
20) Methylene Chloride	5.277	84	27959	9.237	ug/l	# 88
25) 2-Butanone	7.483	43	35177	20.485	ug/l	# 85
29) Tetrahydrofuran	7.841	42	1511	1.639	ug/l	# 31
31) Cyclohexane	8.224	56	5196	1.110	ug/l	# 40
36) 1,1-Dichloropropene	8.224	75	21440	4.214	ug/l	# 48
37) Ethyl Acetate	7.571	43	4313	1.222	ug/l	# 89
38) Carbon Tetrachloride	8.230	117	28549	4.422	ug/l	# 16
42) 1,2-Dichloroethane	8.683	62	1219	0.206	ug/l	# 73
43) Isopropyl Acetate	8.688	43	147354	21.456	ug/l	# 88
48) Methyl methacrylate	9.659	41	7922	2.238	ug/l	# 33
49) 1,4-Dioxane	9.700	88	600	10.190	ug/l	# 30
51) 4-Methyl-2-Pentanone	10.441	43	6106	1.717	ug/l	93
54) cis-1,3-Dichloropropene	10.359	75	62622	10.661	ug/l	# 59
57) 1,3-Dichloropropane	11.200	76	7267	1.205	ug/l	# 42
59) 2-Hexanone	11.171	43	124887	43.710	ug/l	# 19
71) Bromoform	12.853	173	1304	0.387	ug/l	# 1
74) N-amyl acetate	12.459	43	8345	1.342	ug/l	# 42
76) 1,2,3-Trichloropropane	12.853	75	148327	23.585	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	148327	79.685	ug/l	# 15

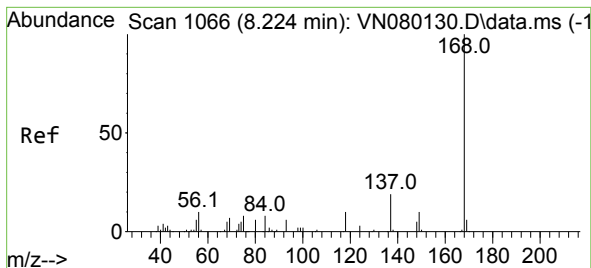
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

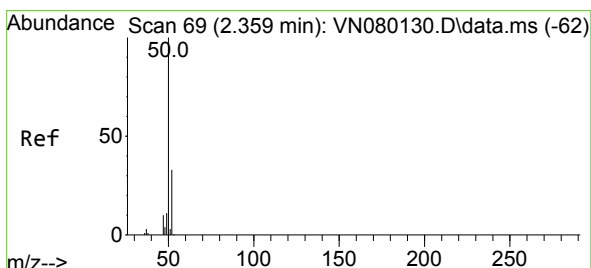
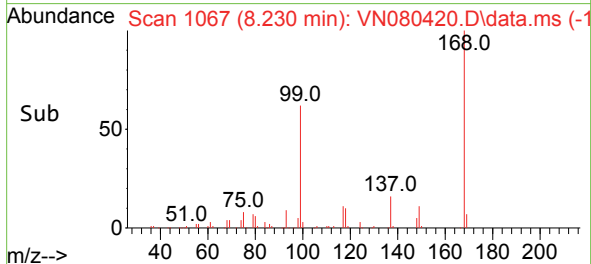
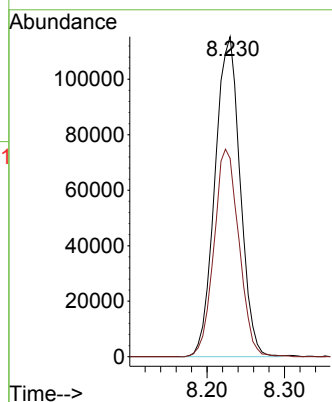
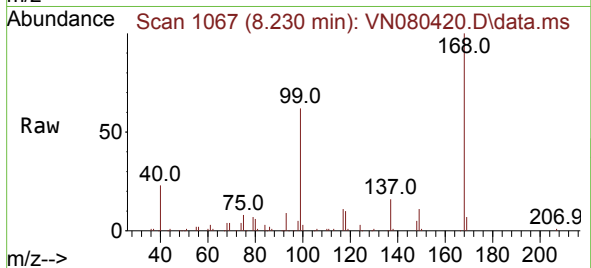
ClientSampleId :

Tgt Ion:168 Resp: 260618

Ion Ratio Lower Upper

168 100

99 62.0 53.0 79.6



#3

Chloromethane

Concen: 1.372 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN080420.D

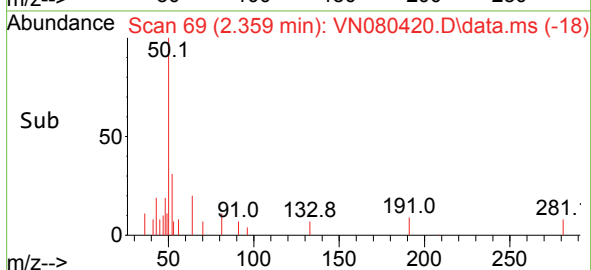
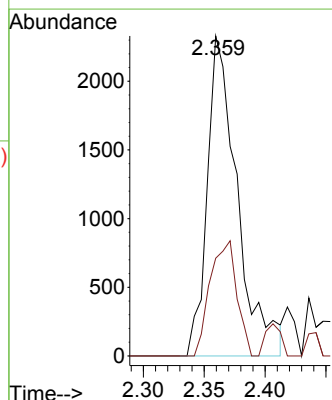
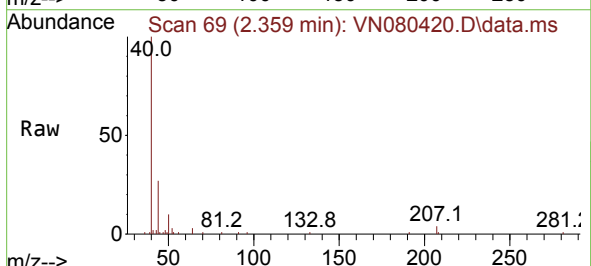
Acq: 08 Dec 2023 20:44

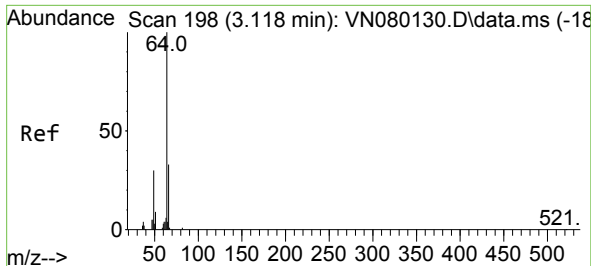
Tgt Ion: 50 Resp: 4005

Ion Ratio Lower Upper

50 100

52 30.6 26.5 39.7

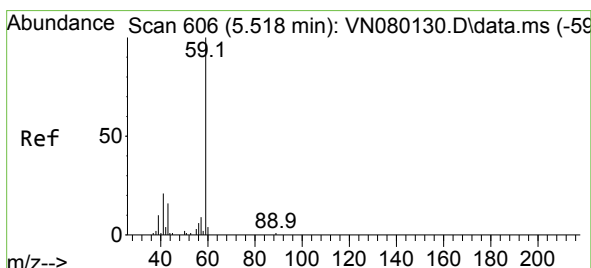
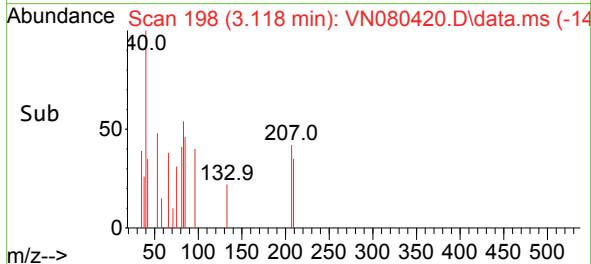
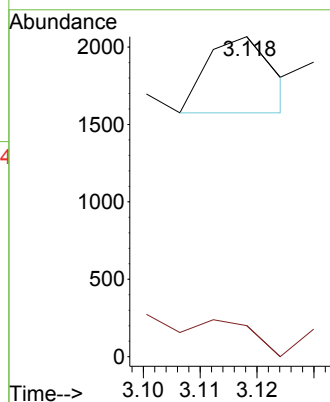
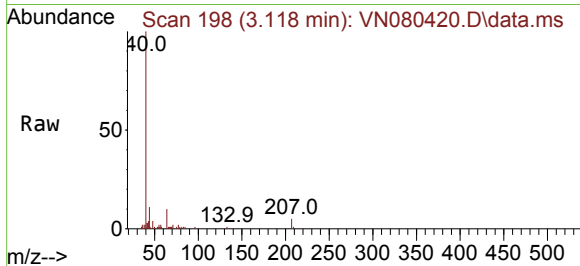




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

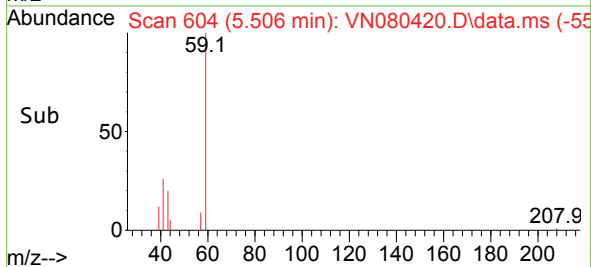
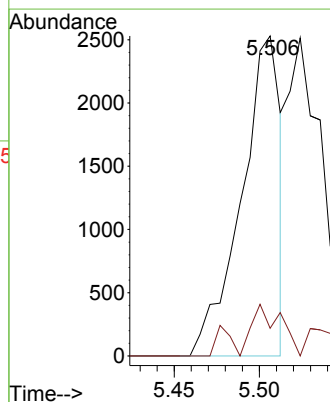
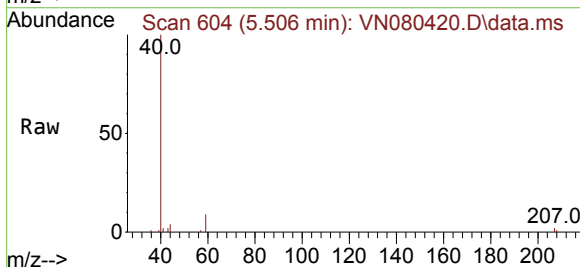
Instrument :
MSVOA_N
ClientSampleId :

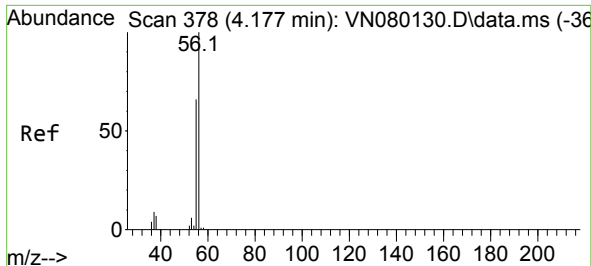
Tgt Ion: 64 Resp: 399
Ion Ratio Lower Upper
64 100
66 40.9 25.4 38.2#



#11
Tert butyl alcohol
Concen: 8.520 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 59 Resp: 4032
Ion Ratio Lower Upper
59 100
57 12.0 8.2 12.4





#13

Acrolein

Concen: 6.359 ug/l

RT: 4.189 min Scan# 378

Delta R.T. 0.012 min

Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

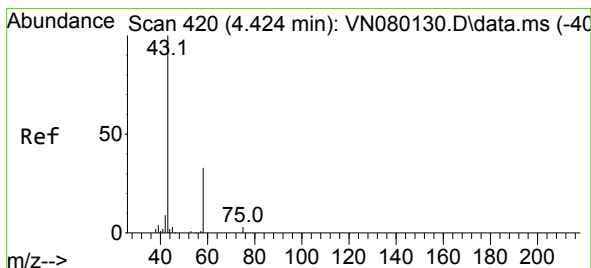
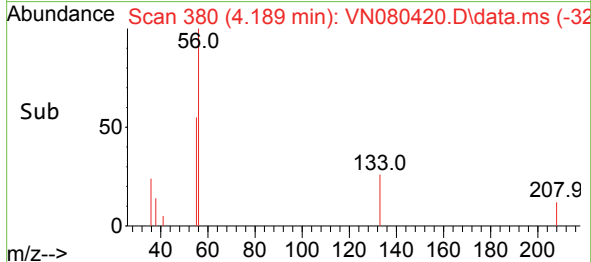
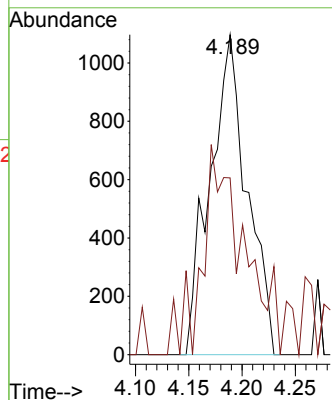
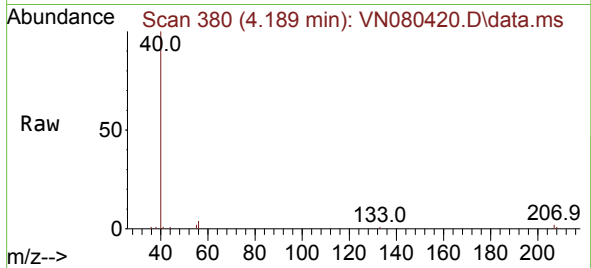
ClientSampleId :

Tgt Ion: 56 Resp: 2663

Ion Ratio Lower Upper

56 100

55 73.2 54.5 81.7



#16

Acetone

Concen: 22.530 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN080420.D

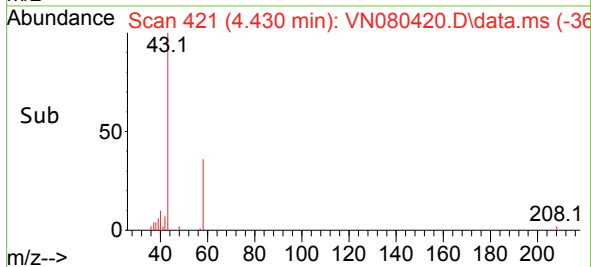
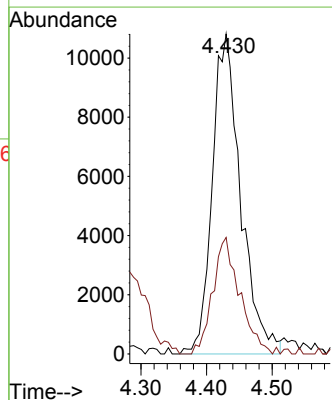
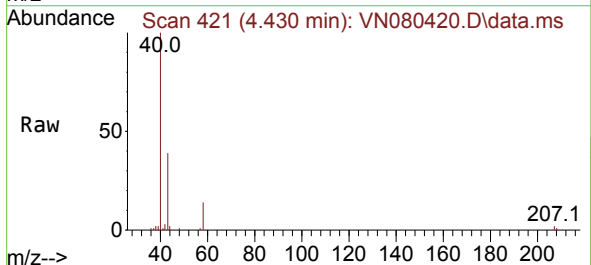
Acq: 08 Dec 2023 20:44

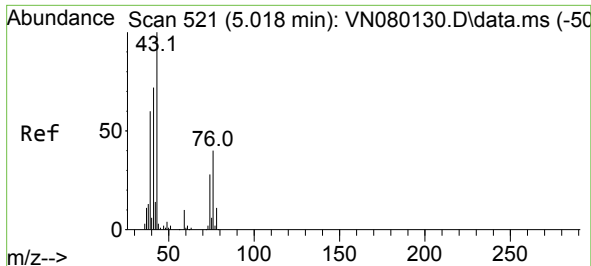
Tgt Ion: 43 Resp: 32563

Ion Ratio Lower Upper

43 100

58 36.4 28.0 42.0

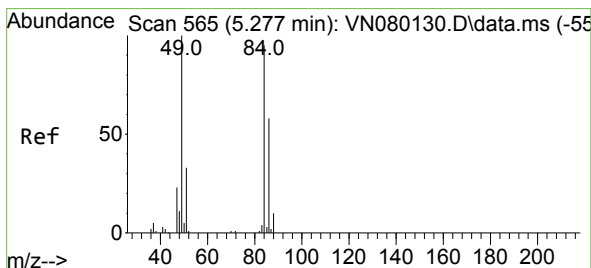
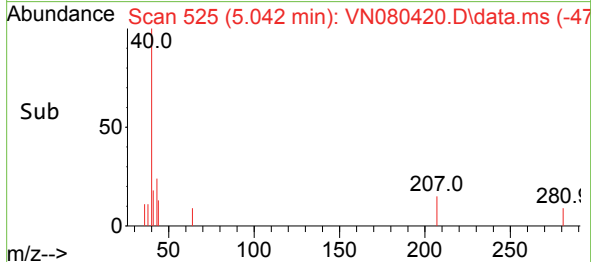
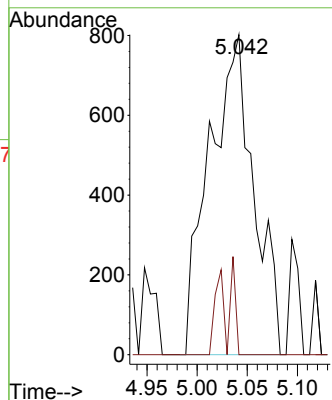
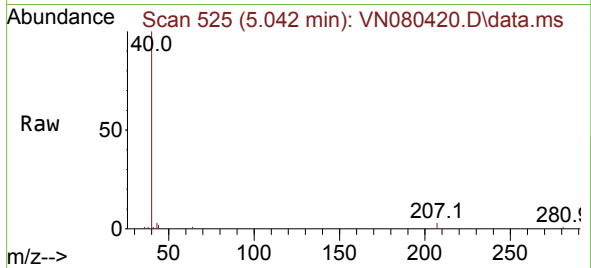




#18
Methyl Acetate
Concen: 0.533 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

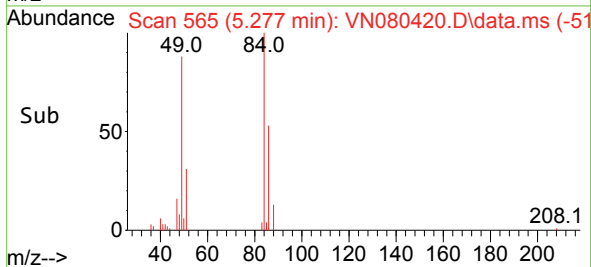
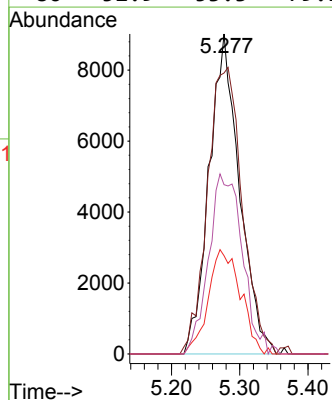
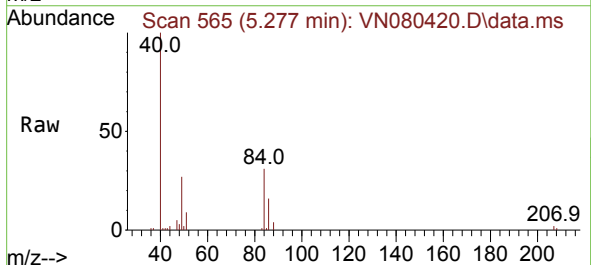
Instrument :
MSVOA_N
ClientSampleId :

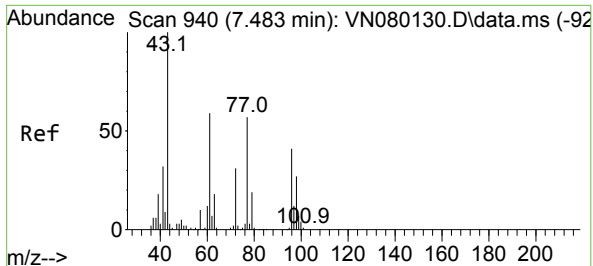
Tgt Ion: 43 Resp: 2476
Ion Ratio Lower Upper
43 100
74 5.2 26.2 39.4#



#20
Methylene Chloride
Concen: 9.237 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

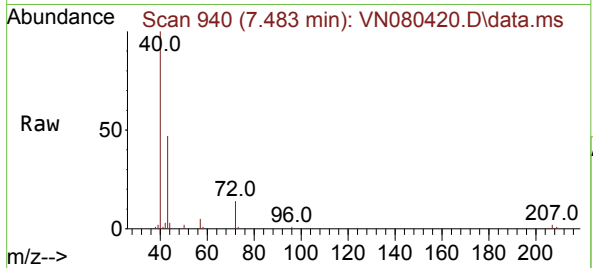
Tgt Ion: 84 Resp: 27959
Ion Ratio Lower Upper
84 100
49 87.8 79.7 119.5
51 30.7 25.2 37.8
86 52.9 53.3 79.9#



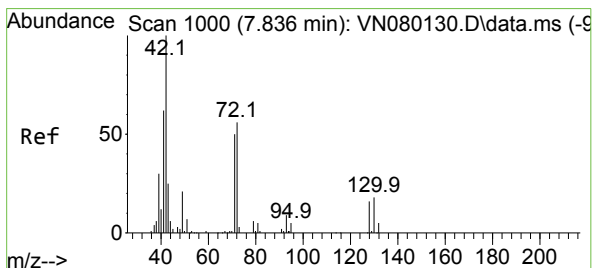
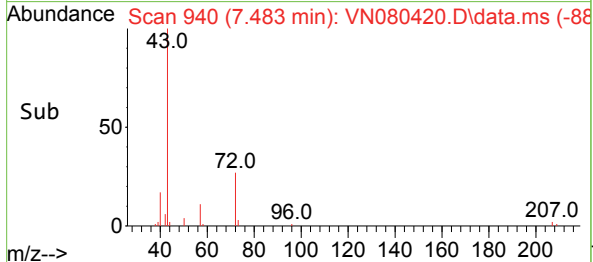
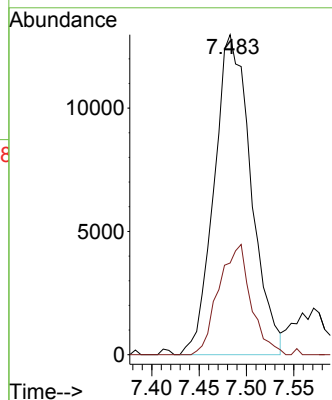


#25
2-Butanone
Concen: 20.485 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Instrument :
MSVOA_N
ClientSampleId :

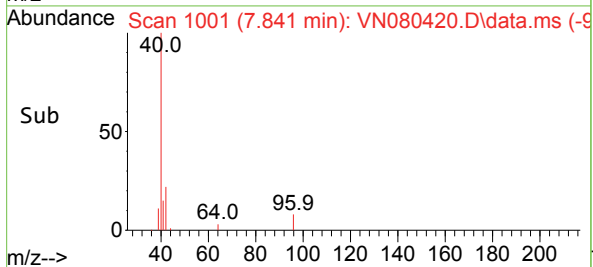
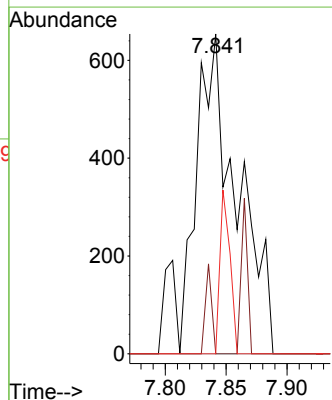
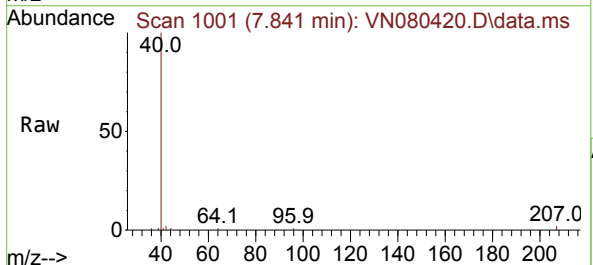


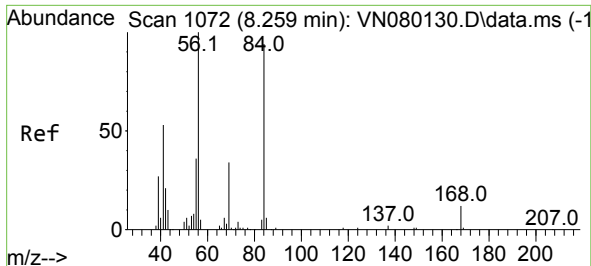
Tgt Ion: 43 Resp: 35177
Ion Ratio Lower Upper
43 100
72 28.7 30.2 45.2#



#29
Tetrahydrofuran
Concen: 1.639 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

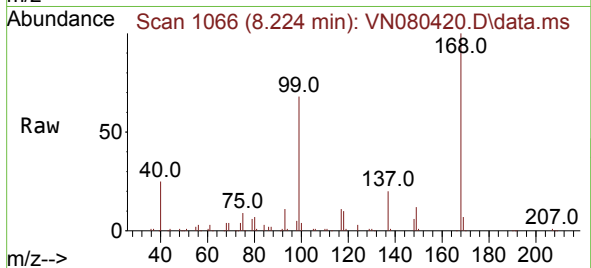
Tgt Ion: 42 Resp: 1511
Ion Ratio Lower Upper
42 100
72 4.3 49.8 74.6#
71 12.6 47.4 71.2#



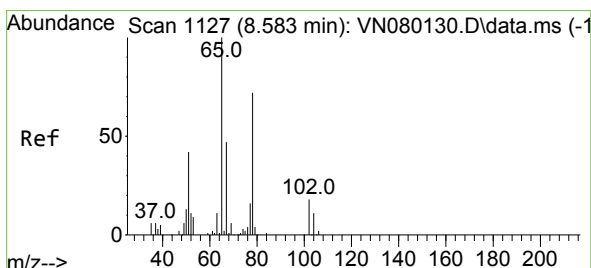
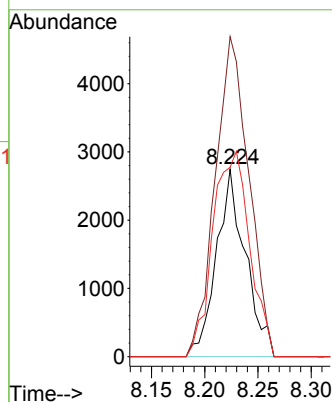
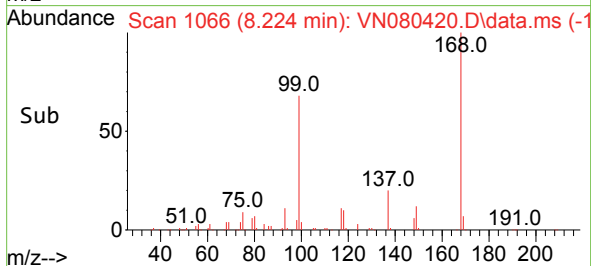


#31
Cyclohexane
Concen: 1.110 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Instrument :
MSVOA_N
ClientSampleId :

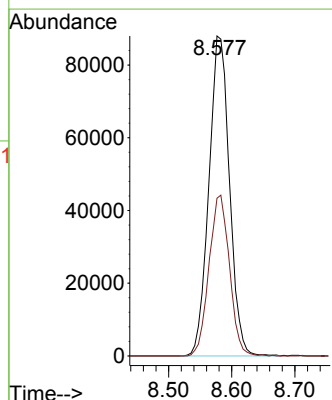
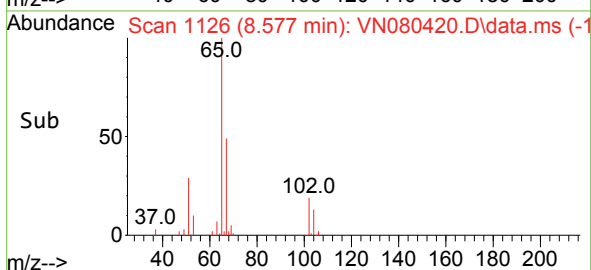
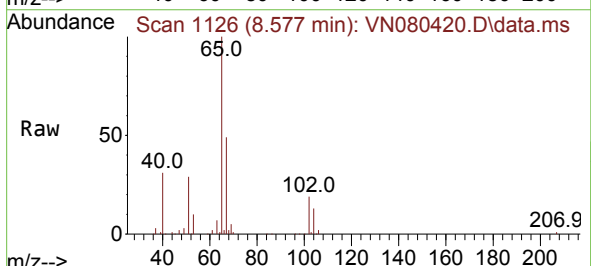


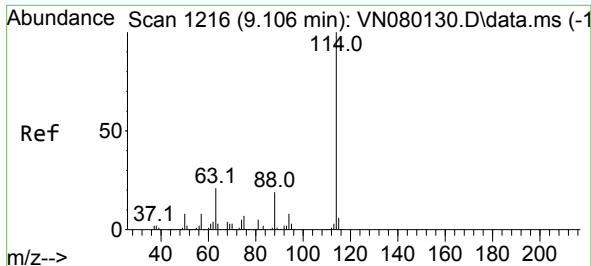
Tgt Ion: 56 Resp: 5196
Ion Ratio Lower Upper
56 100
69 170.4 26.8 40.2#
84 100.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 46.287 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 65 Resp: 199184
Ion Ratio Lower Upper
65 100
67 50.0 0.0 106.6

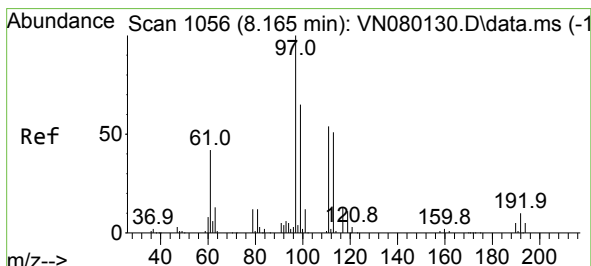
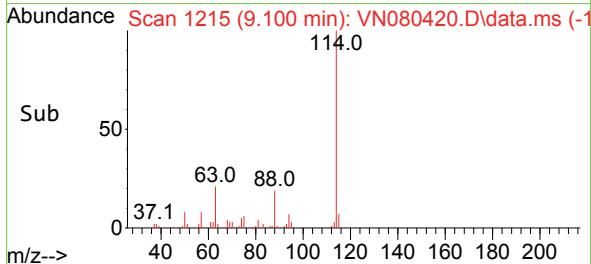
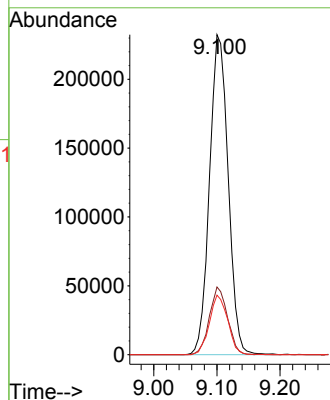
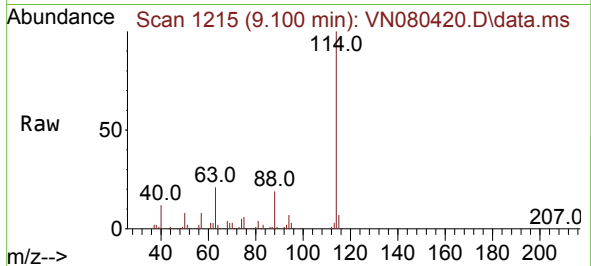




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

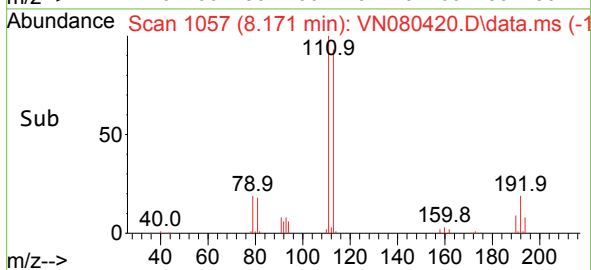
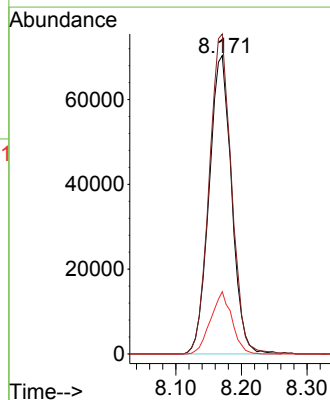
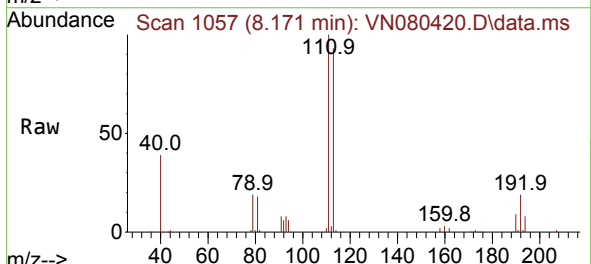
Instrument :
MSVOA_N
ClientSampleId :

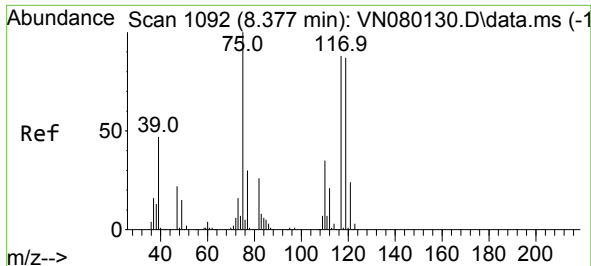
Tgt Ion:114 Resp: 476282
Ion Ratio Lower Upper
114 100
63 21.2 0.0 36.4
88 18.6 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.768 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion:113 Resp: 167872
Ion Ratio Lower Upper
113 100
111 106.5 82.6 123.8
192 19.7 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.214 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

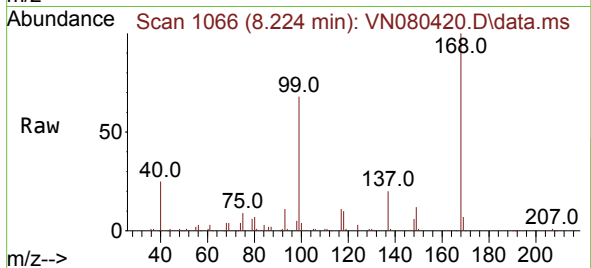
Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :



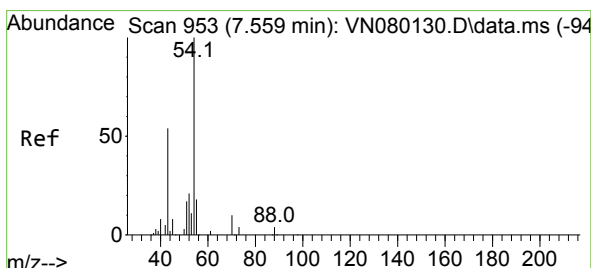
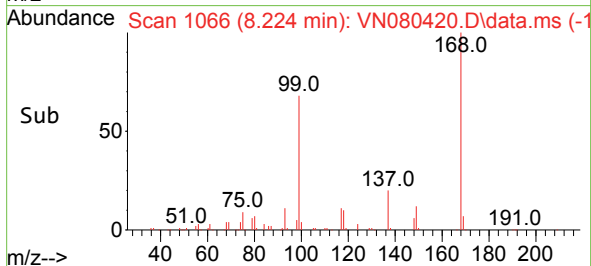
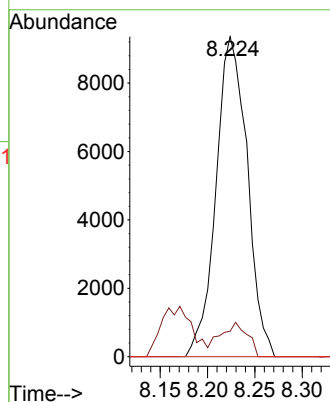
Tgt Ion: 75 Resp: 21440

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.222 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.012 min

Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

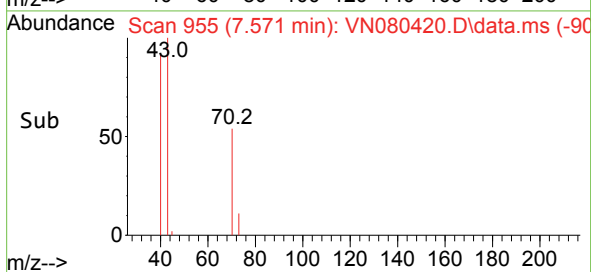
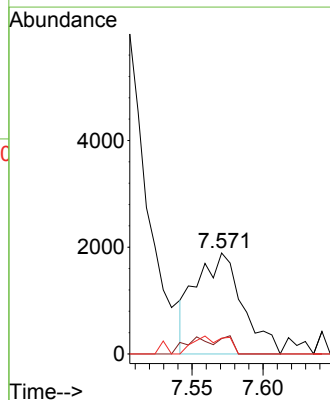
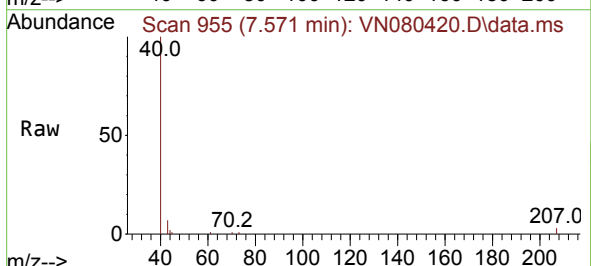
Tgt Ion: 43 Resp: 4313

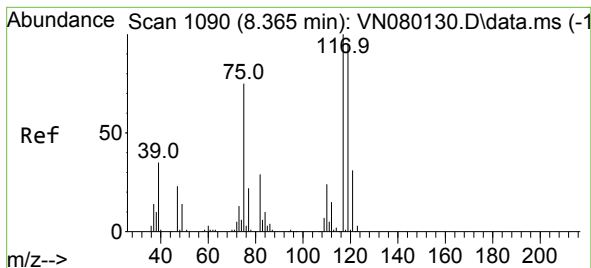
Ion Ratio Lower Upper

43 100

61 9.1 13.2 19.8#

70 12.9 11.3 16.9





#38

Carbon Tetrachloride

Concen: 4.422 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.135 min

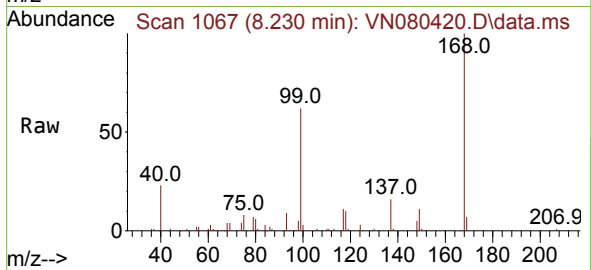
Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :



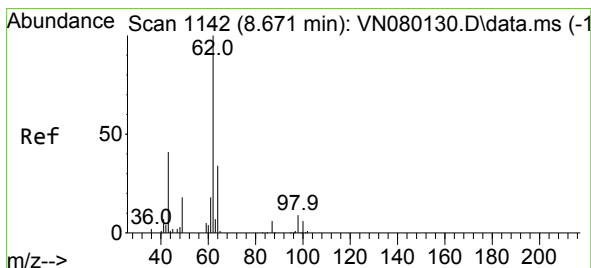
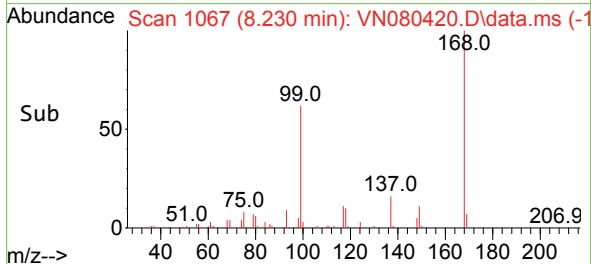
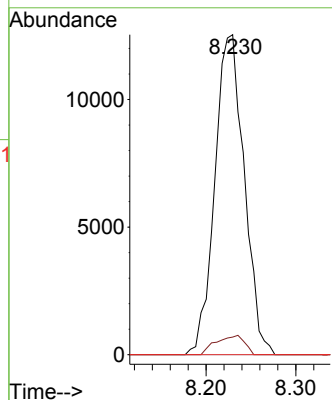
Tgt Ion:117 Resp: 28549

Ion Ratio Lower Upper

117 100

119 5.5 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.206 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN080420.D

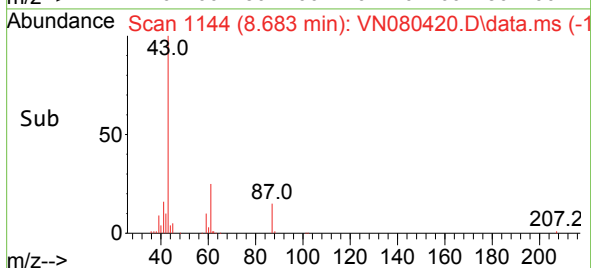
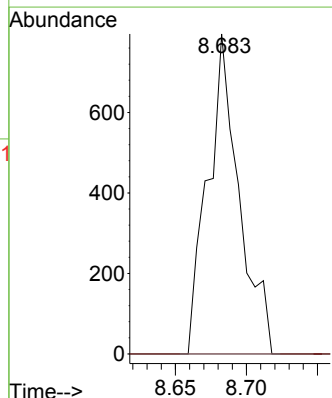
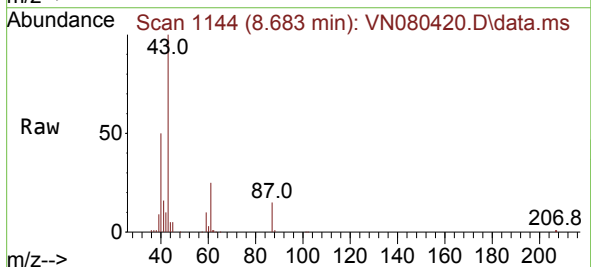
Acq: 08 Dec 2023 20:44

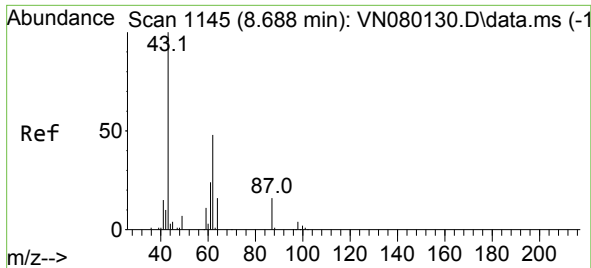
Tgt Ion: 62 Resp: 1219

Ion Ratio Lower Upper

62 100

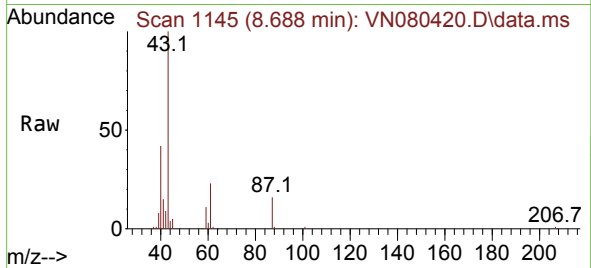
98 0.0 0.0 19.8



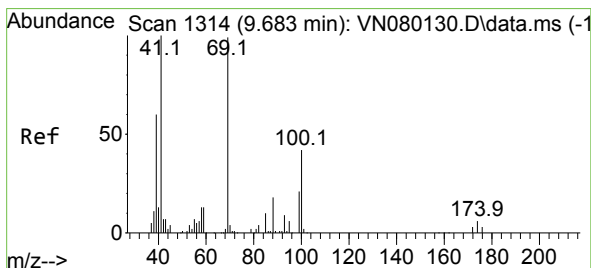
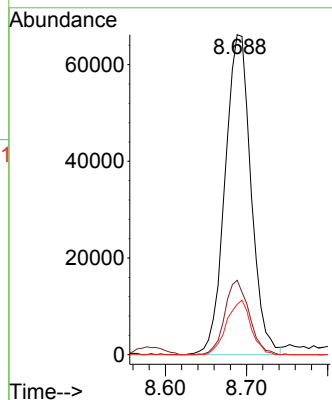
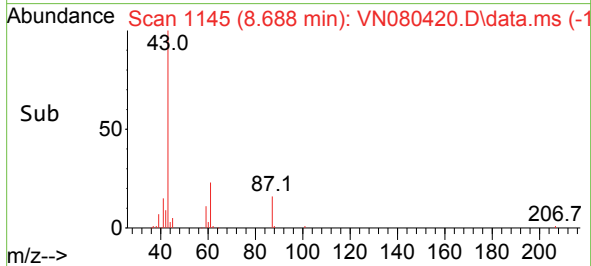


#43
Isopropyl Acetate
Concen: 21.456 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Instrument :
MSVOA_N
ClientSampleId :

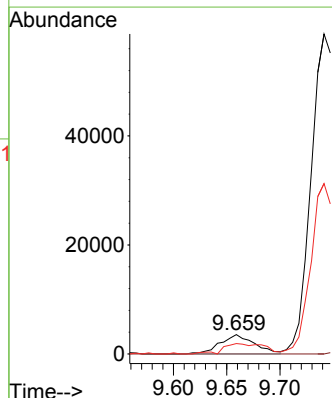
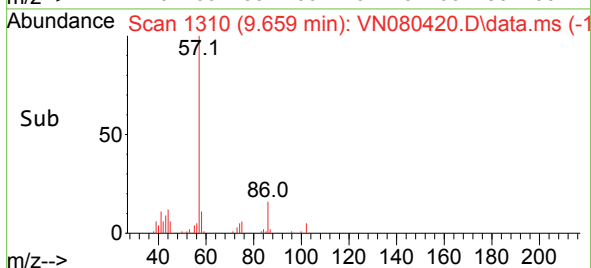
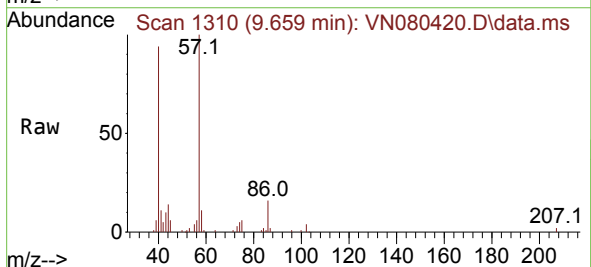


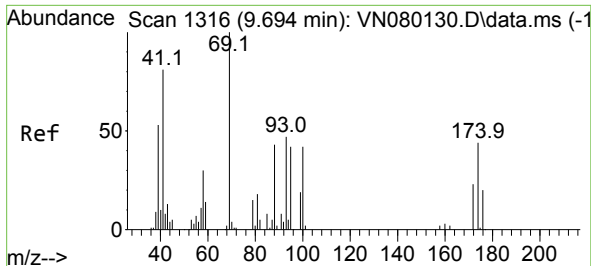
Tgt Ion: 43 Resp: 147354
Ion Ratio Lower Upper
43 100
61 21.8 24.7 37.1#
87 15.9 14.6 21.8



#48
Methyl methacrylate
Concen: 2.238 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.024 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 41 Resp: 7922
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 65.6 54.6 81.8





#49

1,4-Dioxane

Concen: 10.190 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

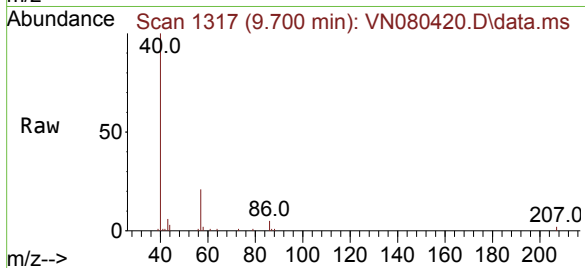
Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :



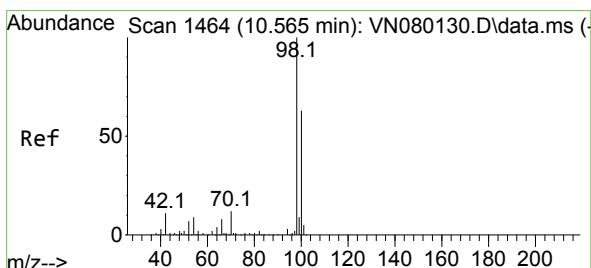
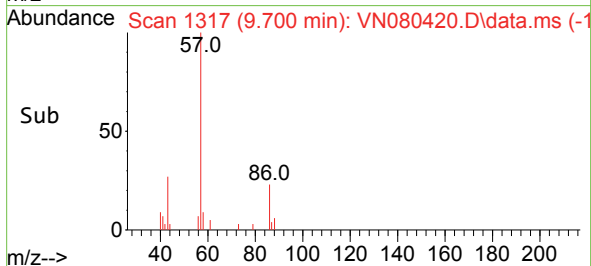
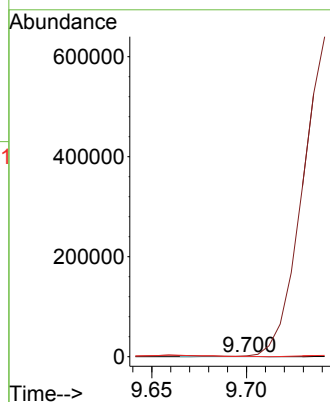
Tgt Ion: 88 Resp: 600

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 51.159 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080420.D

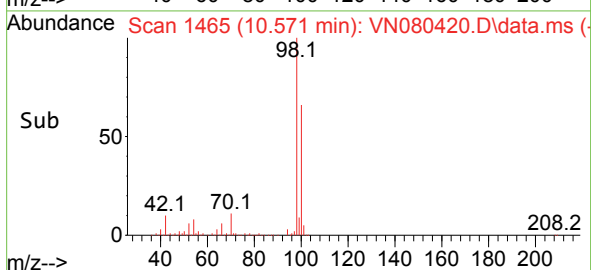
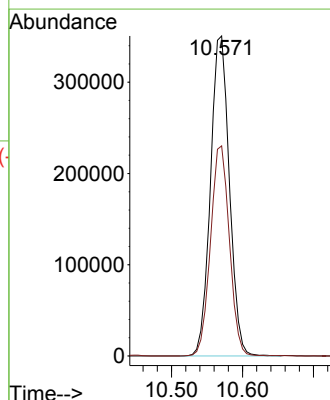
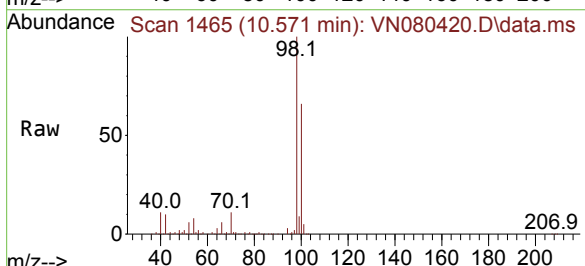
Acq: 08 Dec 2023 20:44

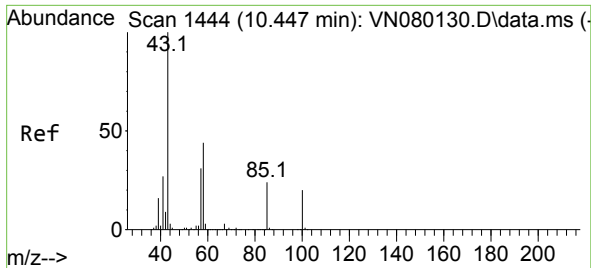
Tgt Ion: 98 Resp: 648100

Ion Ratio Lower Upper

98 100

100 65.5 52.0 78.0

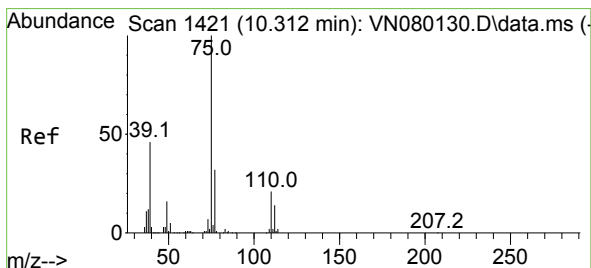
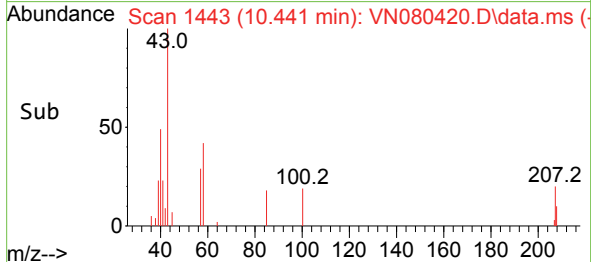
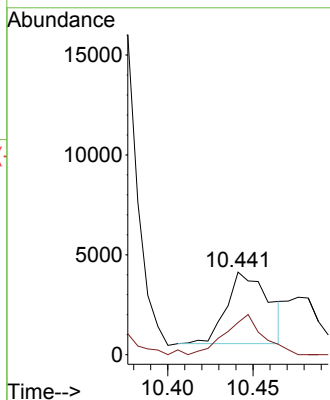
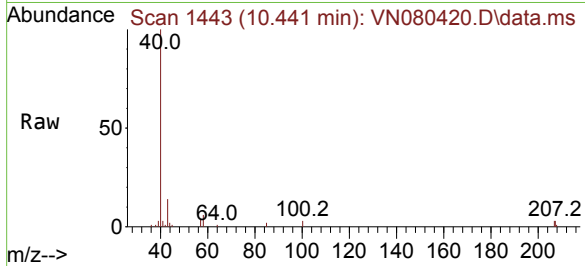




#51
4-Methyl-2-Pentanone
Concen: 1.717 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

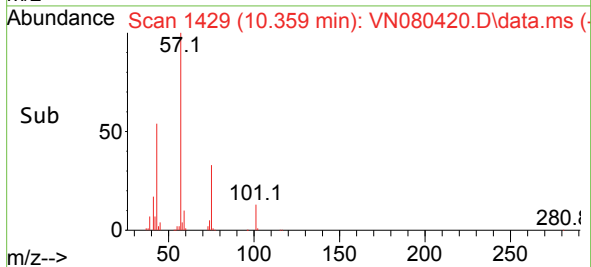
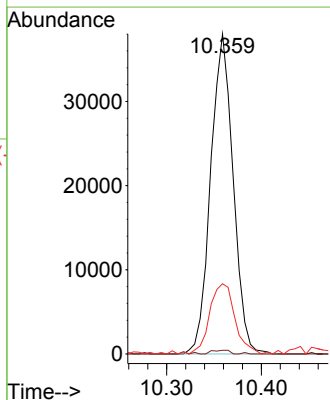
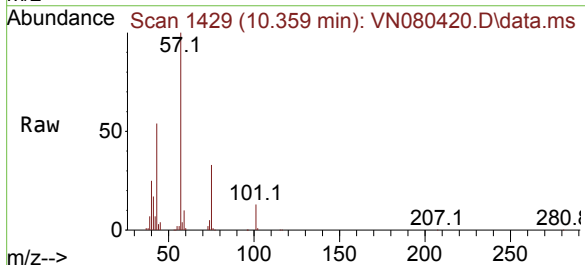
Instrument :
MSVOA_N
ClientSampleId :

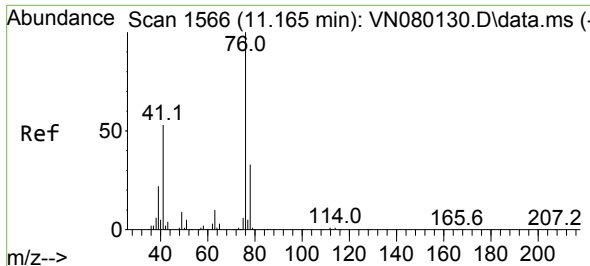
Tgt Ion: 43 Resp: 6106
Ion Ratio Lower Upper
43 100
58 50.2 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 10.661 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 75 Resp: 62622
Ion Ratio Lower Upper
75 100
77 1.2 26.1 39.1#
39 21.9 31.6 47.4#

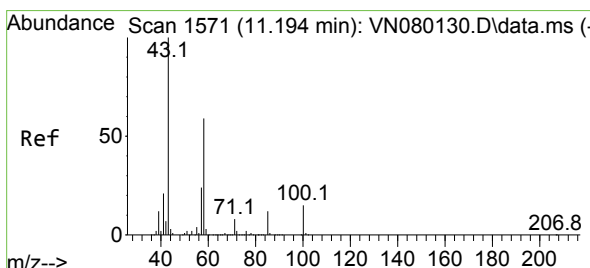
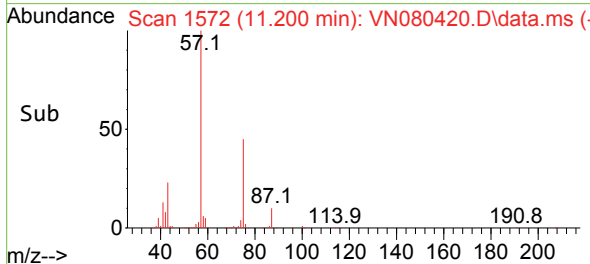
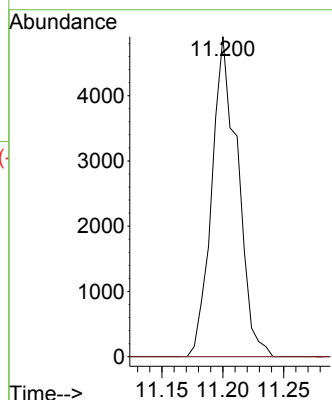
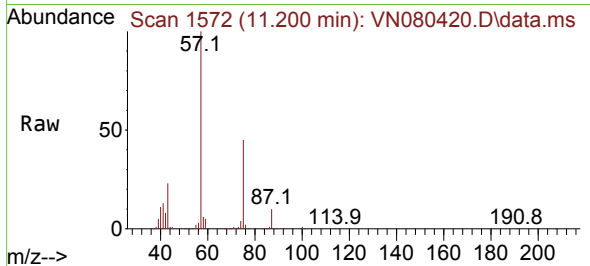




#57
1,3-Dichloropropane
Concen: 1.205 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

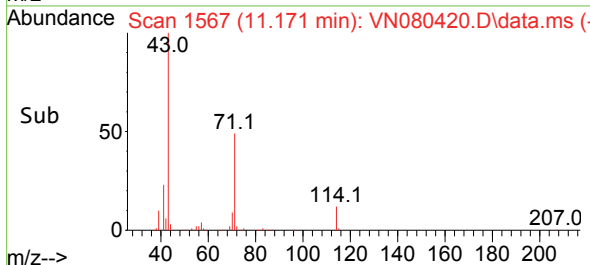
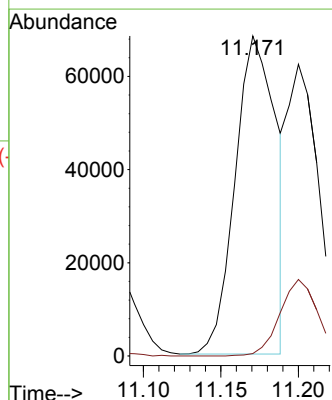
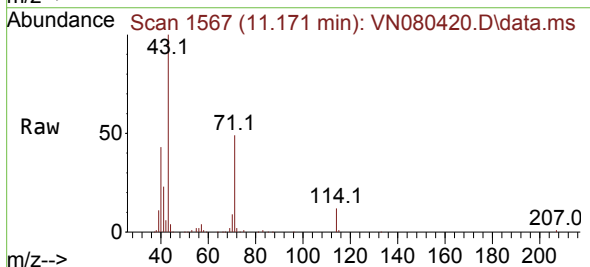
Instrument :
MSVOA_N
ClientSampleId :

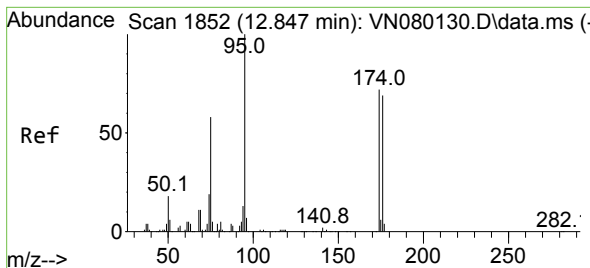
Tgt Ion: 76 Resp: 7267
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 43.710 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 43 Resp: 124887
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

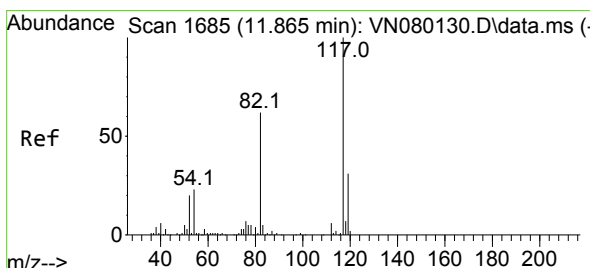
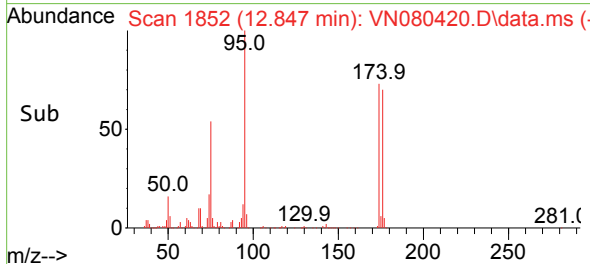
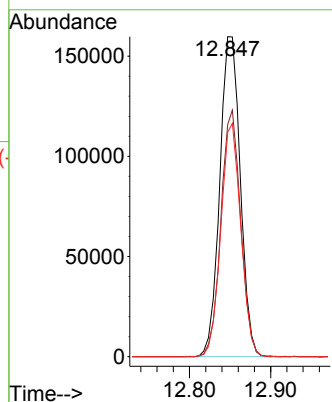
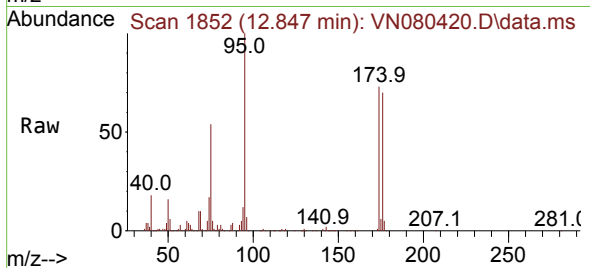




#62
4-Bromofluorobenzene
Concen: 58.708 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

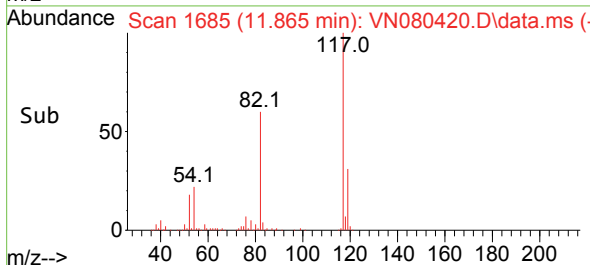
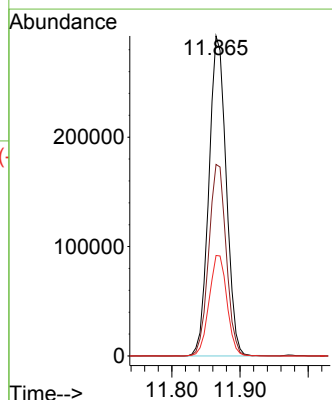
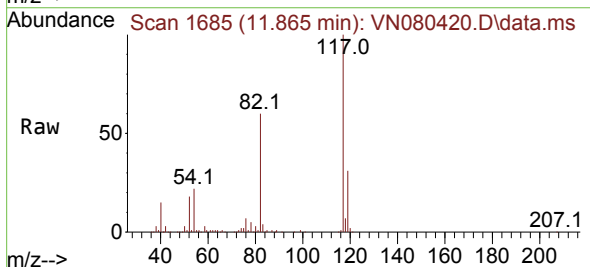
Instrument :
MSVOA_N
ClientSampleId :

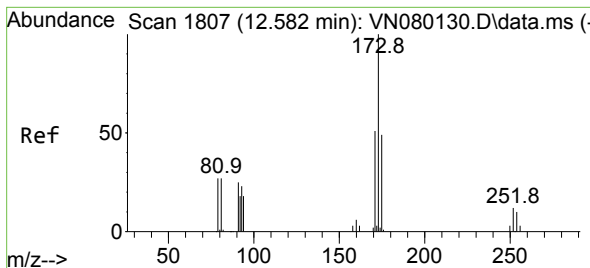
Tgt Ion: 95 Resp: 280922
Ion Ratio Lower Upper
95 100
174 74.2 0.0 143.8
176 70.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Tgt Ion: 117 Resp: 517110
Ion Ratio Lower Upper
117 100
82 59.9 44.0 66.0
119 31.4 25.6 38.4





#71

Bromoform

Concen: 0.387 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

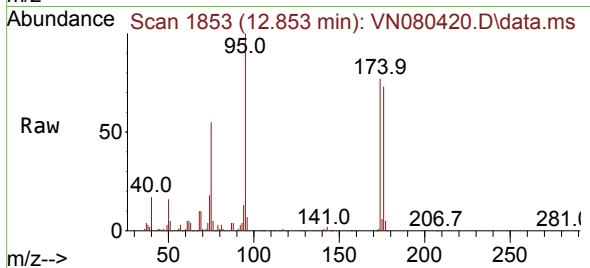
Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

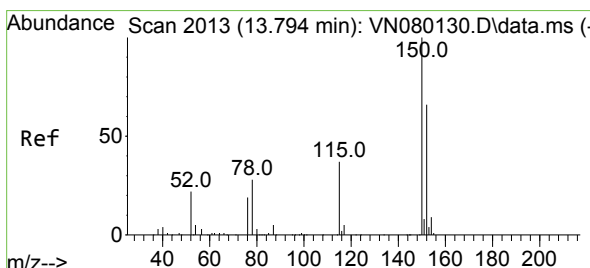
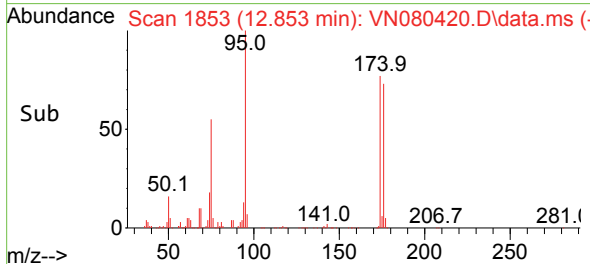
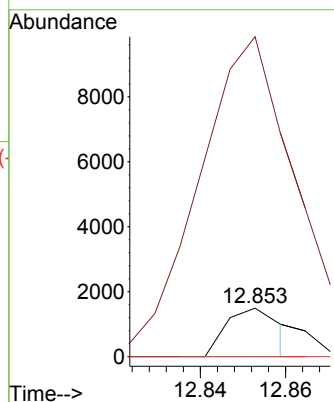
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	1304
Ion Ratio	Lower	Upper	
173	100		
175	997.2	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

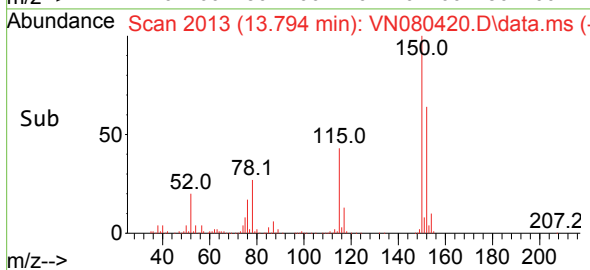
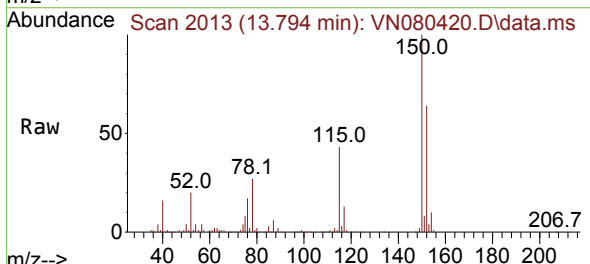
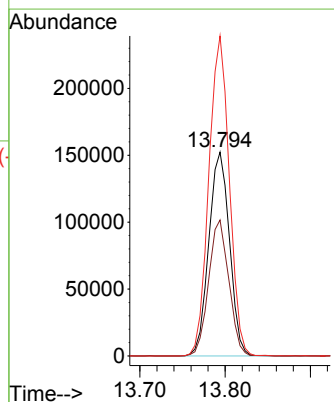
RT: 13.794 min Scan# 2013

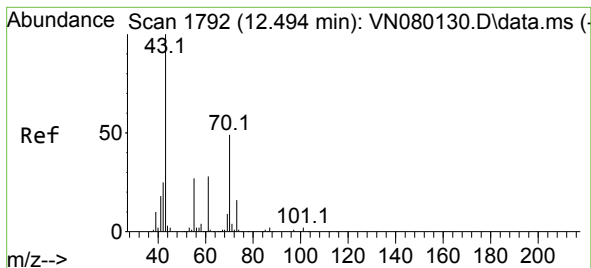
Delta R.T. -0.000 min

Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Tgt Ion:	152	Resp:	256674
Ion Ratio	Lower	Upper	
152	100		
115	65.3	32.3	96.8
150	155.3	0.0	355.8





#74

N-amy1 acetate

Concen: 1.342 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.035 min

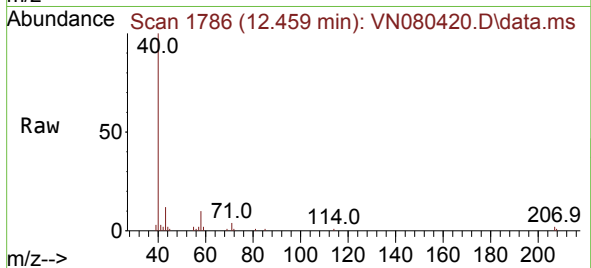
Lab File: VN080420.D

Acq: 08 Dec 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 8345

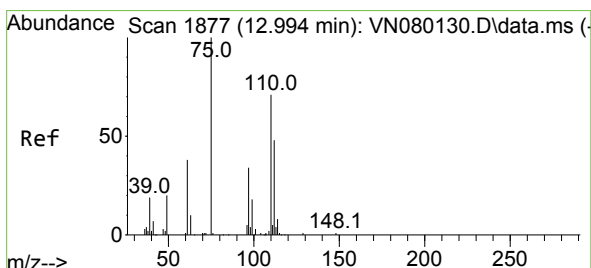
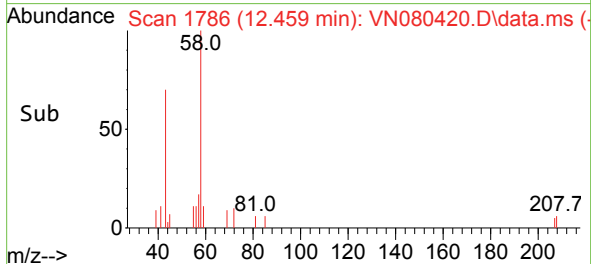
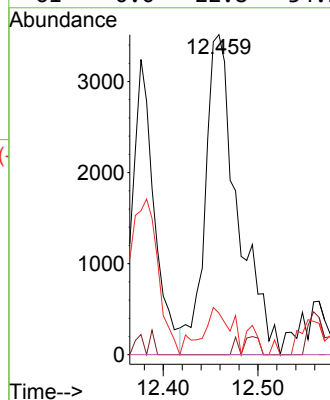
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 12.9 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 23.585 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080420.D

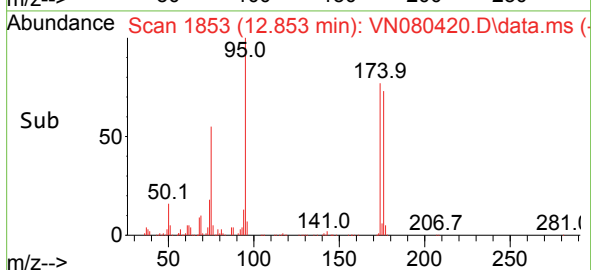
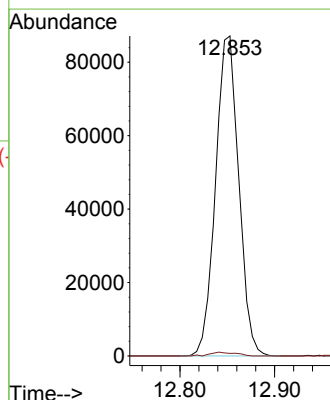
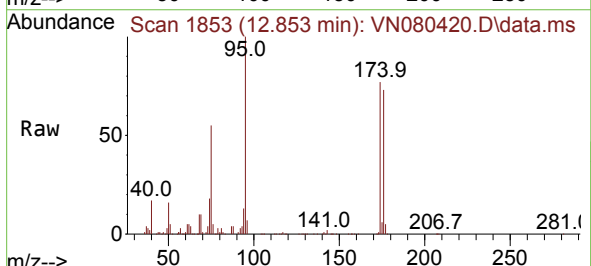
Acq: 08 Dec 2023 20:44

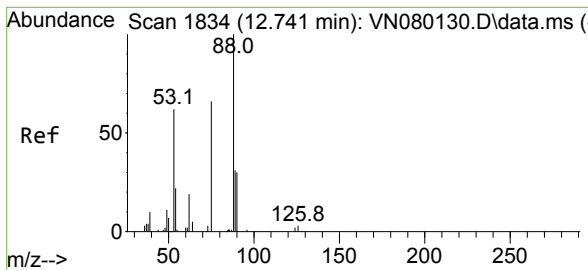
Tgt Ion: 75 Resp: 148327

Ion Ratio Lower Upper

75 100

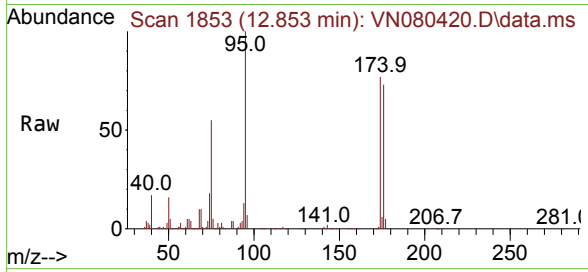
77 1.3 84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 79.685 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN080420.D
Acq: 08 Dec 2023 20:44

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 148327
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

