

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122123\
 Data File : VN080577.D
 Acq On : 21 Dec 2023 16:38
 Operator : JC\MD
 Sample : 05926-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 22 04:03:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

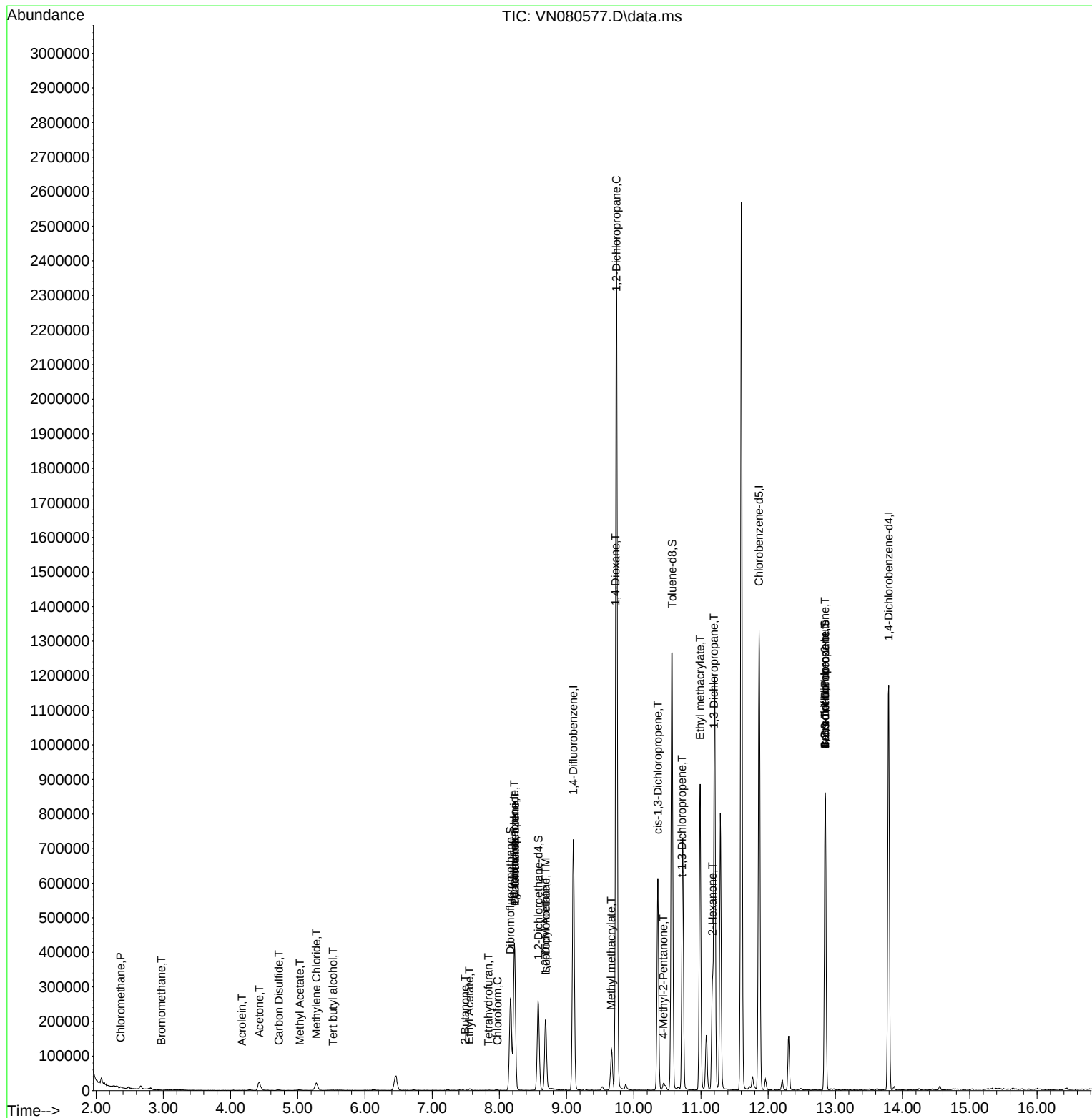
Internal Standards						
1) Pentafluorobenzene	8.230	168	313078	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	642603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	802408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	332909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	210501	52.642	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.280%			
35) Dibromofluoromethane	8.165	113	196016	48.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.220%			
50) Toluene-d8	10.571	98	911129	59.961	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 119.920%#			
62) 4-Bromofluorobenzene	12.847	95	332422	57.612	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.220%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	4499	0.677	ug/l	92
5) Bromomethane	2.971	94	604	0.392	ug/l #	46
11) Tert butyl alcohol	5.524	59	520	1.104	ug/l #	72
13) Acrolein	4.171	56	662	1.284	ug/l #	75
16) Acetone	4.430	43	44353	62.555	ug/l	99
17) Carbon Disulfide	4.718	76	2377	0.249	ug/l #	75
18) Methyl Acetate	5.030	43	3082	0.676	ug/l #	66
20) Methylene Chloride	5.277	84	17229	4.541	ug/l #	88
25) 2-Butanone	7.488	43	5488	4.018	ug/l #	84
29) Tetrahydrofuran	7.835	42	670	0.685	ug/l #	55
30) Chloroform	7.971	83	2013	0.289	ug/l	97
31) Cyclohexane	8.230	56	5676	1.044	ug/l #	18
36) 1,1-Dichloropropene	8.230	75	24026	3.607	ug/l #	49
37) Ethyl Acetate	7.553	43	5189	1.244	ug/l #	95
38) Carbon Tetrachloride	8.224	117	33490	4.207	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1643	0.231	ug/l #	73
43) Isopropyl Acetate	8.688	43	230133	30.681	ug/l #	88
45) 1,2-Dichloropropane	9.741	63	3251	0.720	ug/l #	45
48) Methyl methacrylate	9.665	41	7051	1.575	ug/l #	23
49) 1,4-Dioxane	9.729	88	430	6.338	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	22050	5.338	ug/l #	71
53) t-1,3-Dichloropropene	10.718	75	2054	0.273	ug/l #	86
54) cis-1,3-Dichloropropene	10.359	75	117451	14.605	ug/l #	62
56) Ethyl methacrylate	10.988	69	3347	0.691	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	13558	1.769	ug/l #	42
59) 2-Hexanone	11.171	43	255684	83.839	ug/l #	19
71) Bromoform	12.847	173	1683	0.330	ug/l #	28
76) 1,2,3-Trichloropropane	12.847	75	165584	24.932	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	165584	65.461	ug/l #	15

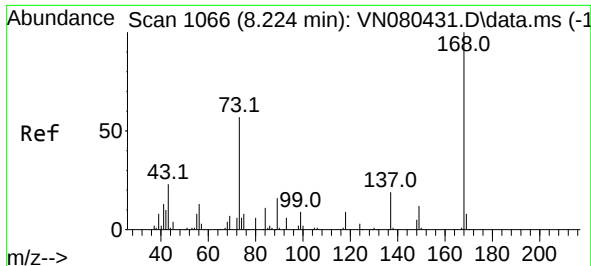
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration

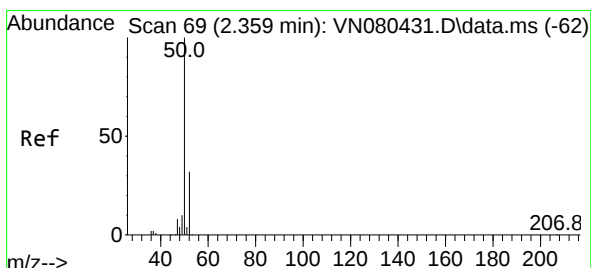
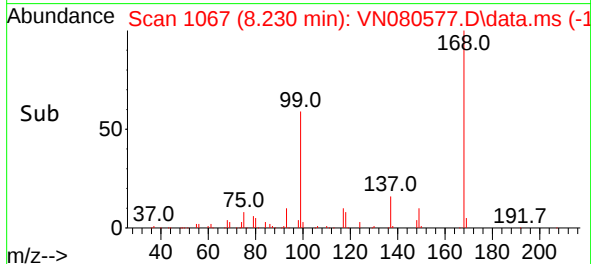
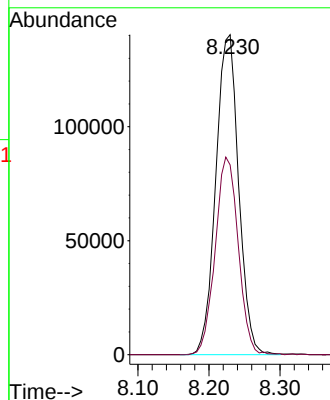
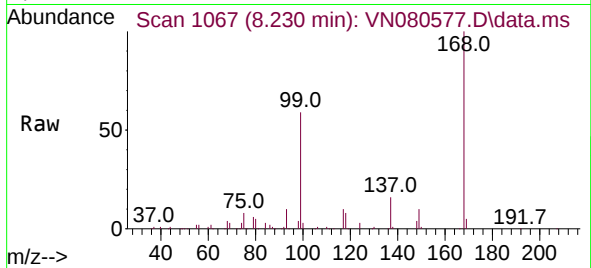




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

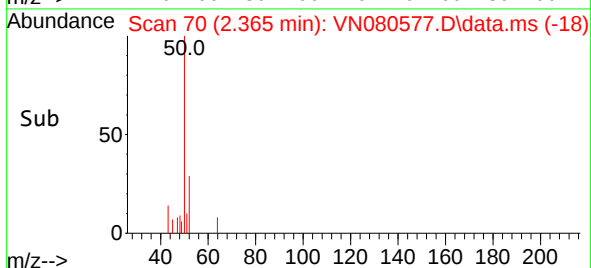
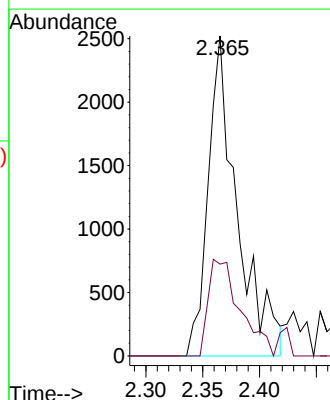
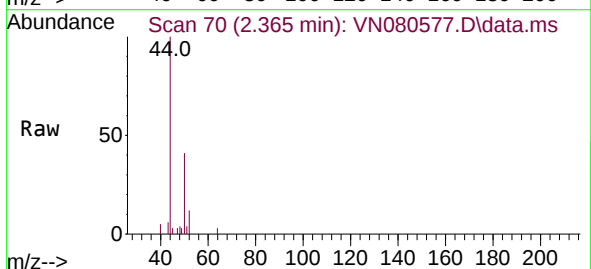
Instrument :
MSVOA_N
ClientSampleId :

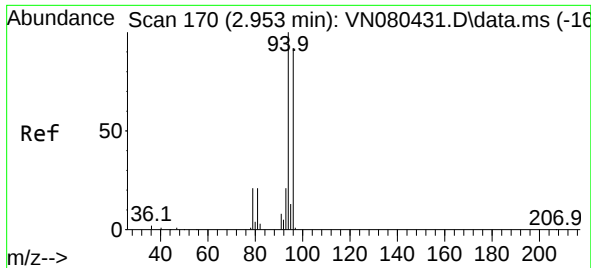
Tgt Ion:168 Resp: 313078
Ion Ratio Lower Upper
168 100
99 59.3 53.0 79.6



#3
Chloromethane
Concen: 0.677 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

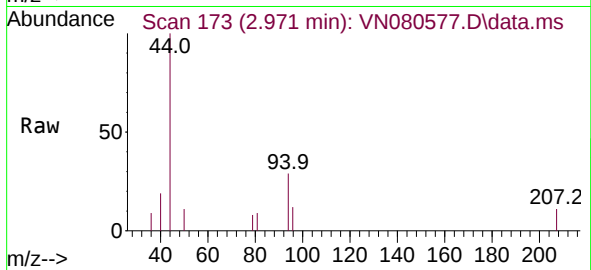
Tgt Ion: 50 Resp: 4499
Ion Ratio Lower Upper
50 100
52 28.7 26.5 39.7



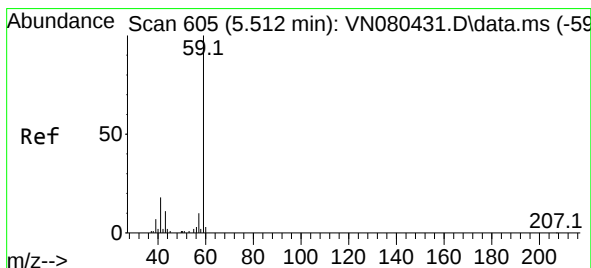
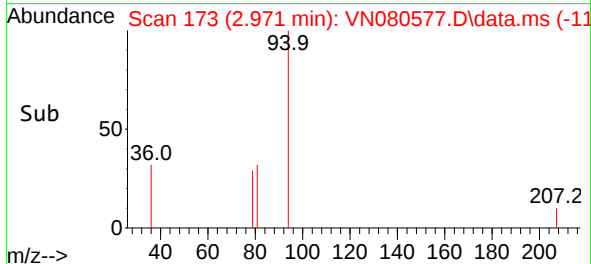
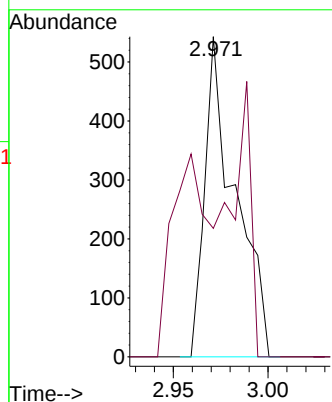


#5
Bromomethane
Concen: 0.392 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

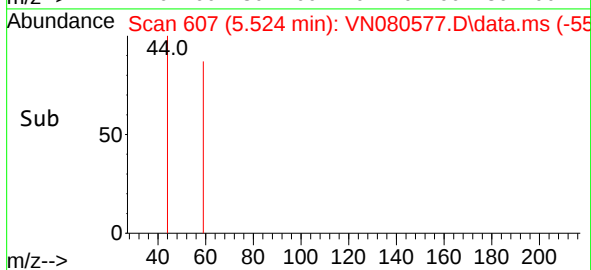
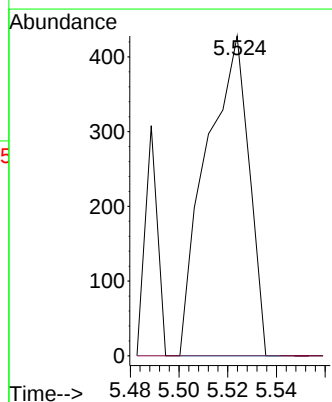
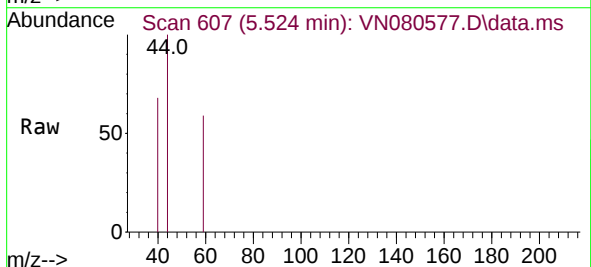


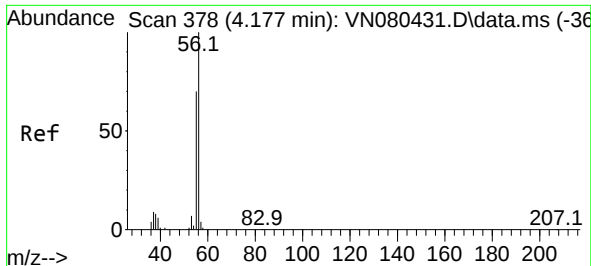
Tgt Ion: 94 Resp: 604
Ion Ratio Lower Upper
94 100
96 40.1 73.1 109.7#



#11
Tert butyl alcohol
Concen: 1.104 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 59 Resp: 520
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

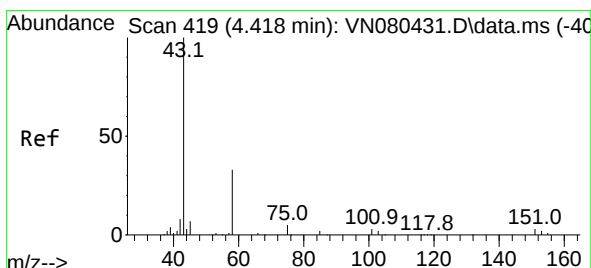
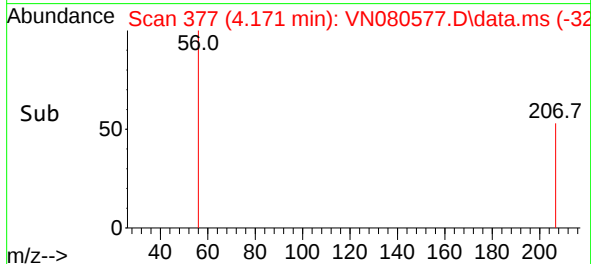
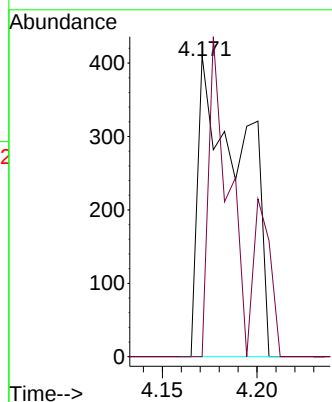
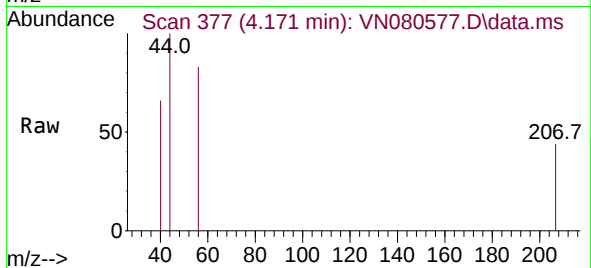




#13
Acrolein
Concen: 1.284 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

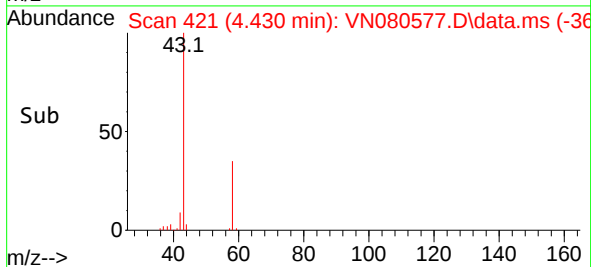
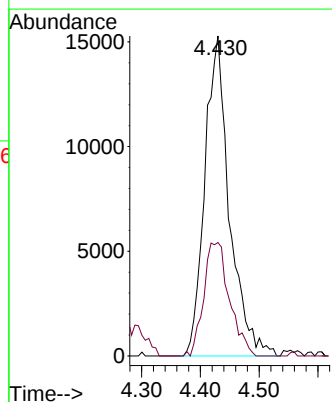
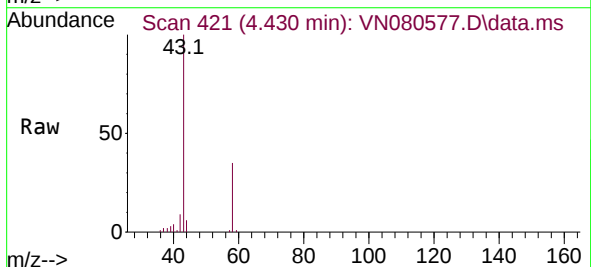
Instrument :
MSVOA_N
ClientSampleId :

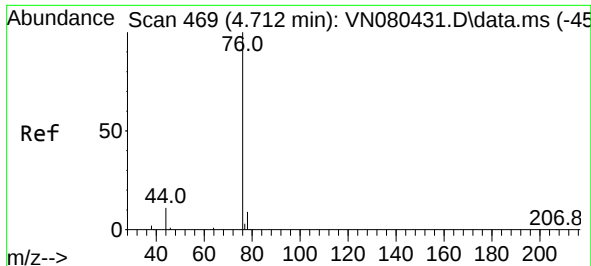
Tgt Ion: 56 Resp: 662
Ion Ratio Lower Upper
56 100
55 47.6 54.5 81.7#



#16
Acetone
Concen: 62.555 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 43 Resp: 44353
Ion Ratio Lower Upper
43 100
58 35.5 28.0 42.0

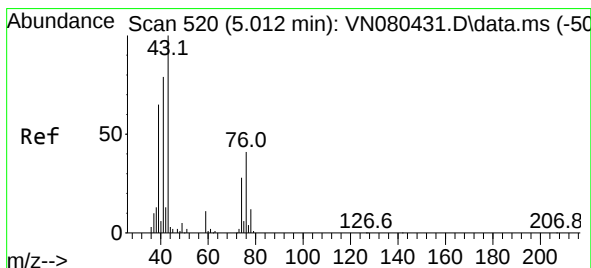
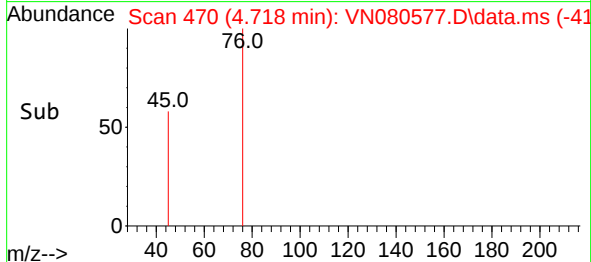
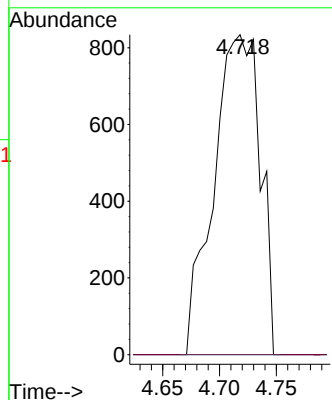
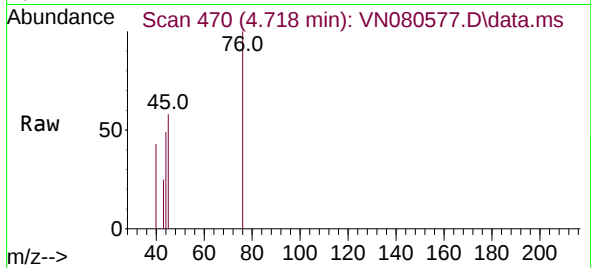




#17
Carbon Disulfide
Concen: 0.249 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

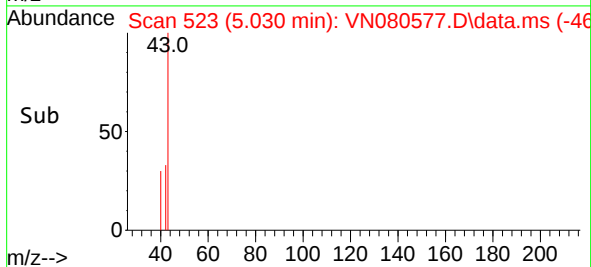
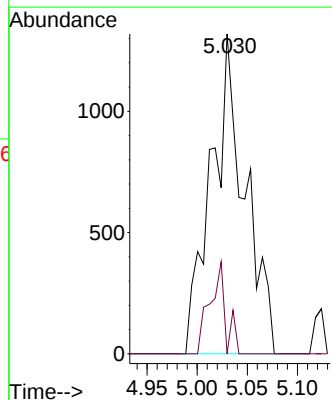
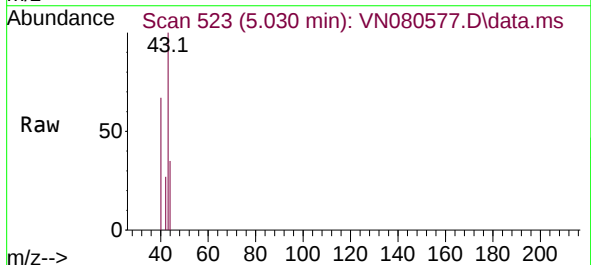
Instrument :
MSVOA_N
ClientSampleId :

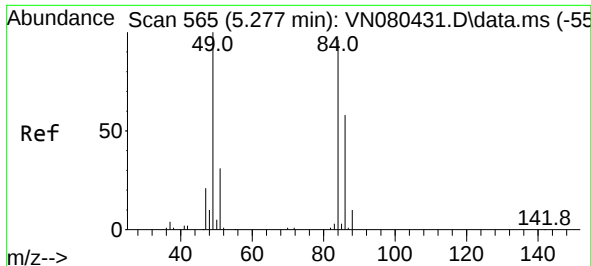
Tgt Ion: 76 Resp: 2377
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.676 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

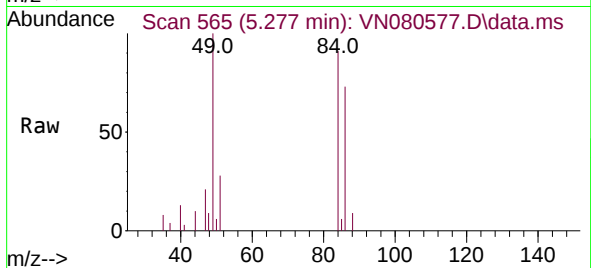
Tgt Ion: 43 Resp: 3082
Ion Ratio Lower Upper
43 100
74 13.6 26.2 39.4#



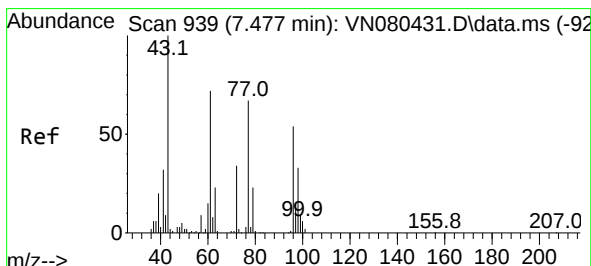
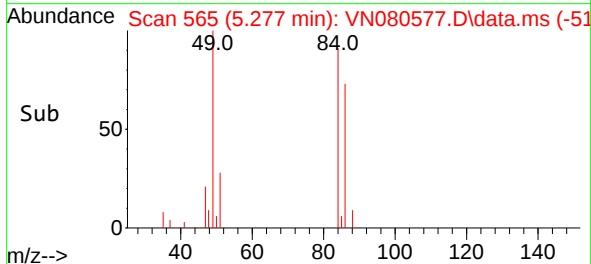
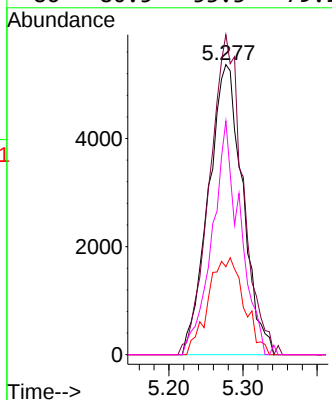


#20
Methylene Chloride
Concen: 4.541 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

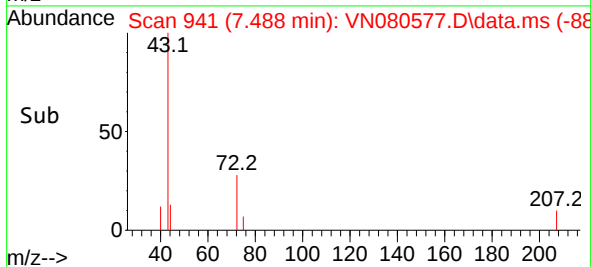
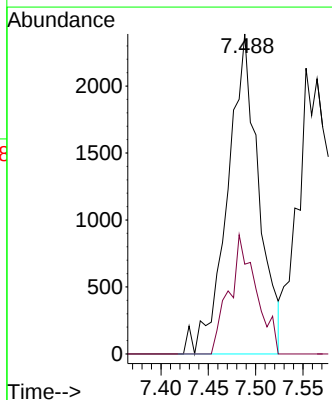
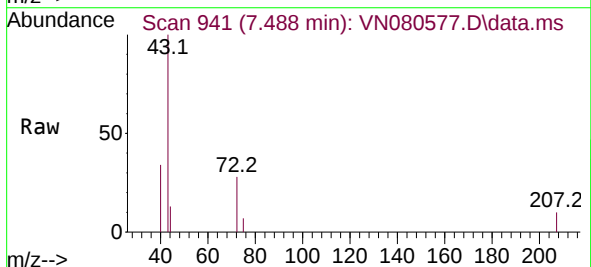


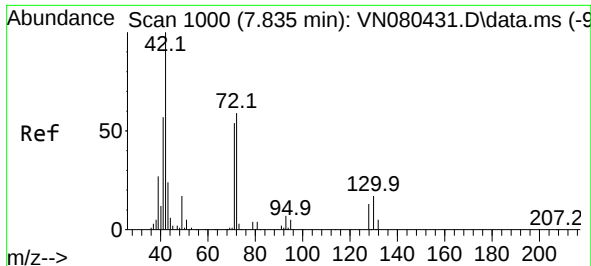
Tgt Ion: 84 Resp: 17229
Ion Ratio Lower Upper
84 100
49 110.3 79.7 119.5
51 30.3 25.2 37.8
86 80.5 53.3 79.9#



#25
2-Butanone
Concen: 4.018 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 43 Resp: 5488
Ion Ratio Lower Upper
43 100
72 28.0 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.685 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.000 min

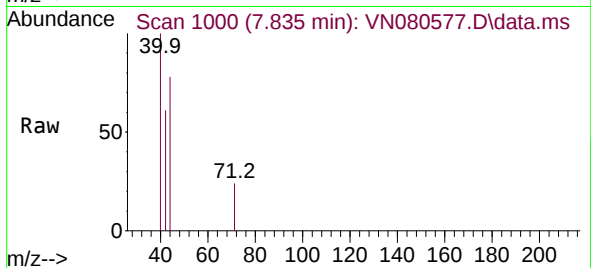
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Acq: 21 Dec 2023 16:38

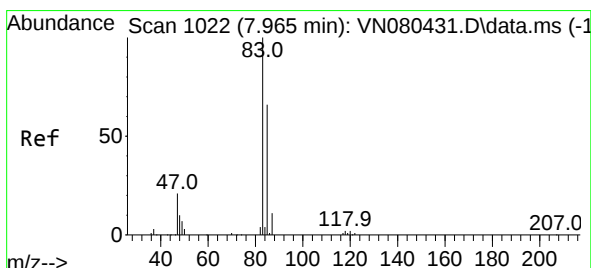
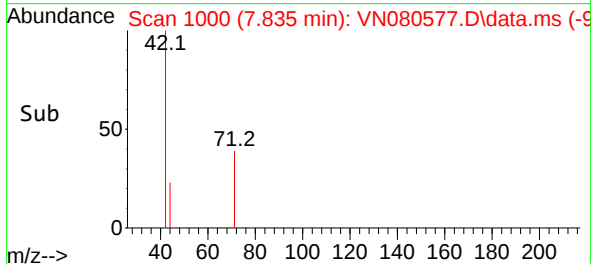
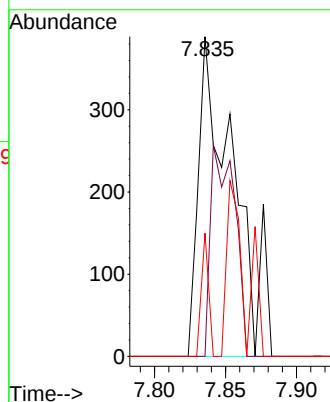
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	670
Ion	Ratio	Lower	Upper
42	100		
72	45.1	49.8	74.6#
71	7.9	47.4	71.2#



#30

Chloroform

Concen: 0.289 ug/l

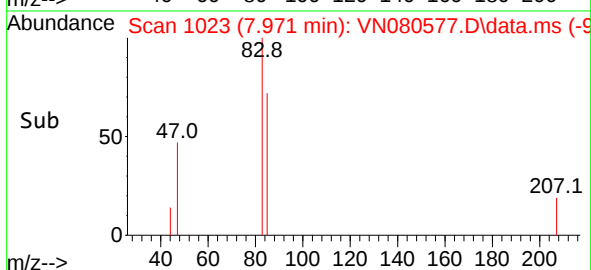
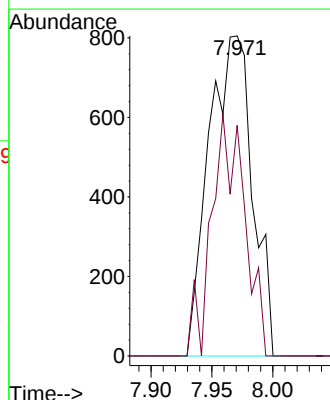
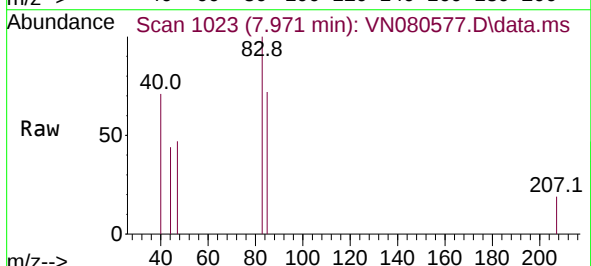
RT: 7.971 min Scan# 1023

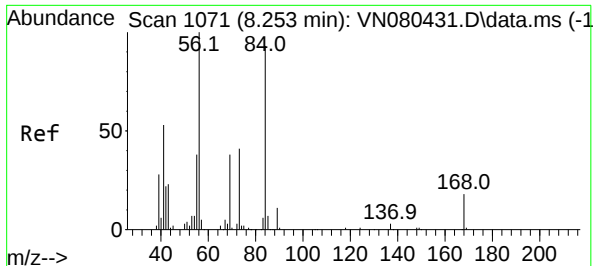
Delta R.T. 0.006 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

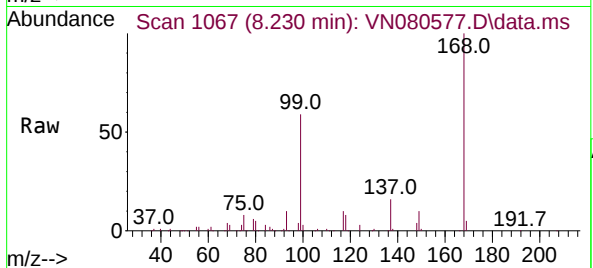
Tgt Ion:	83	Resp:	2013
Ion	Ratio	Lower	Upper
83	100		
85	72.0	55.4	83.0



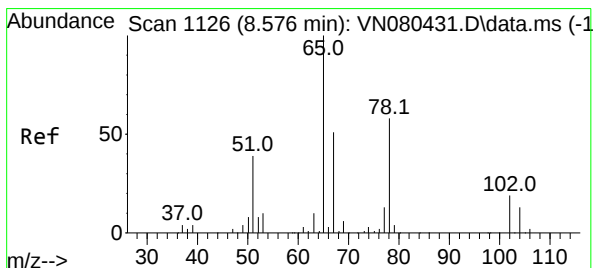
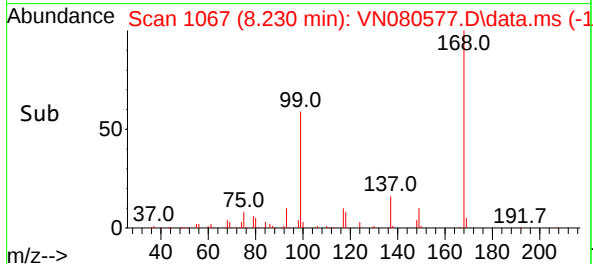
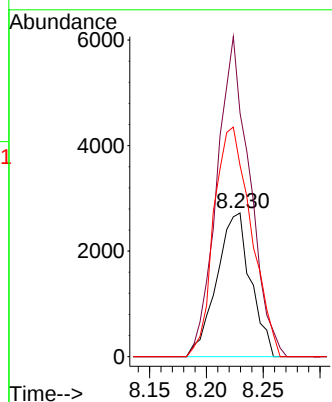


#31
Cyclohexane
Concen: 1.044 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.023 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

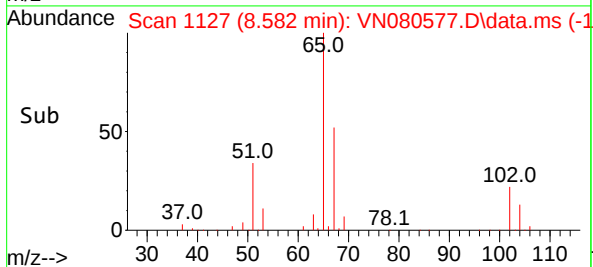
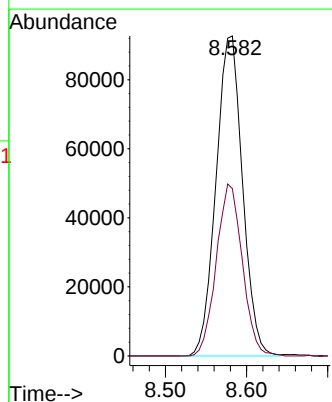
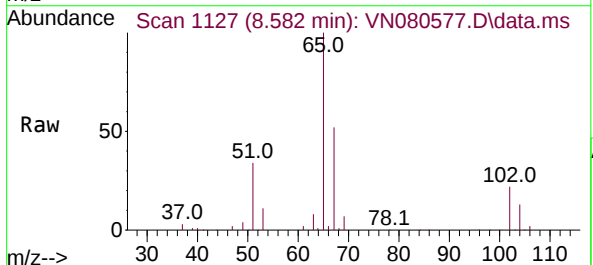


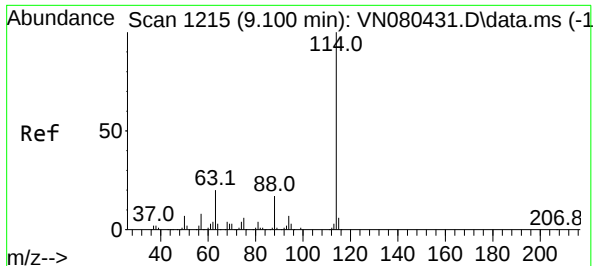
Tgt Ion: 56 Resp: 5676
Ion Ratio Lower Upper
56 100
69 169.5 26.8 40.2#
84 133.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.642 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 65 Resp: 210501
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

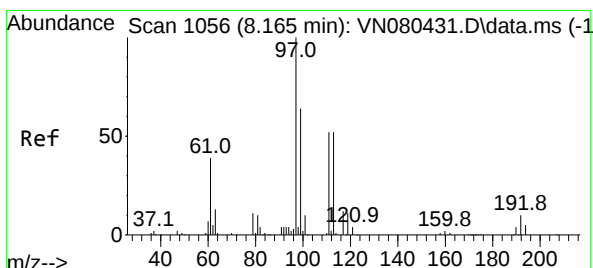
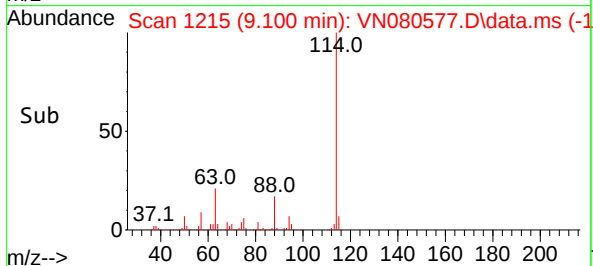
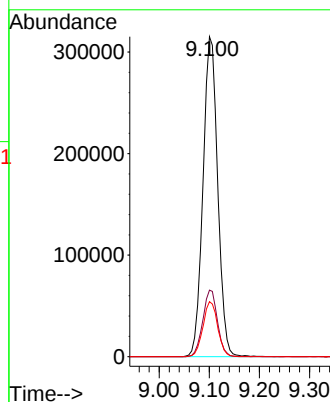
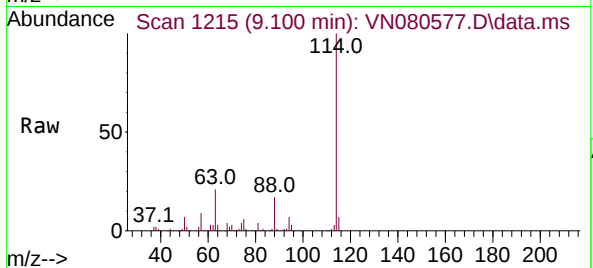
Tgt Ion:114 Resp: 642603

Ion Ratio Lower Upper

114 100

63 20.8 0.0 36.4

88 17.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.110 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

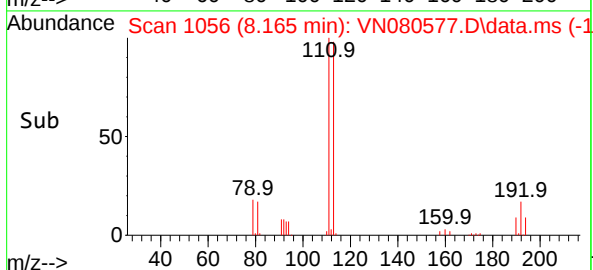
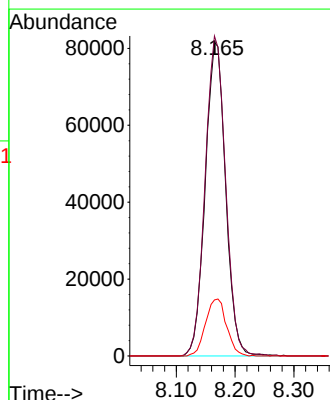
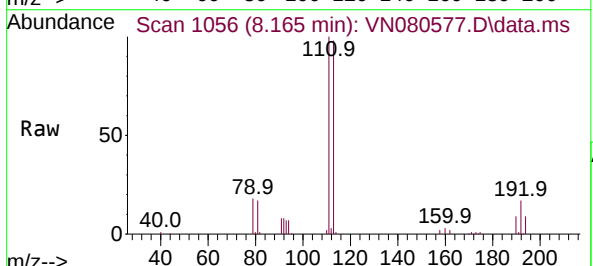
Tgt Ion:113 Resp: 196016

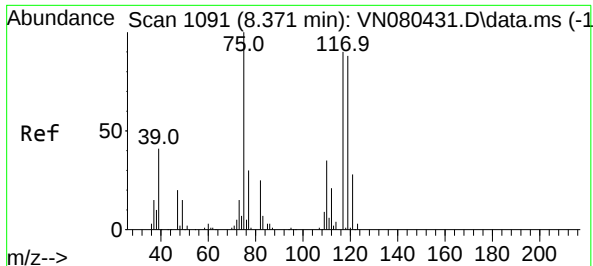
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

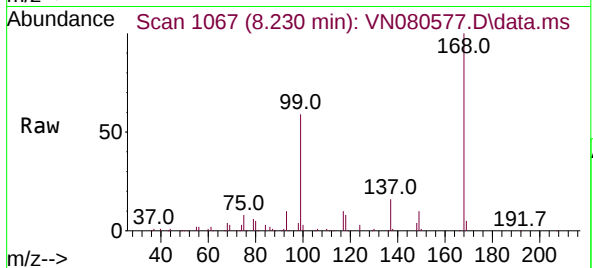
192 18.7 12.7 19.1



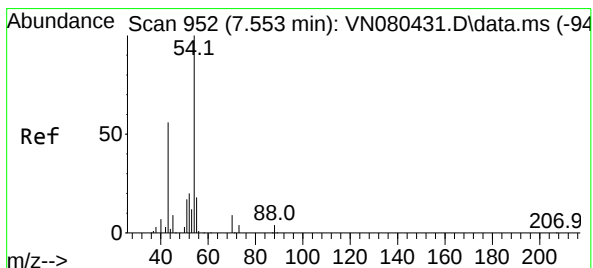
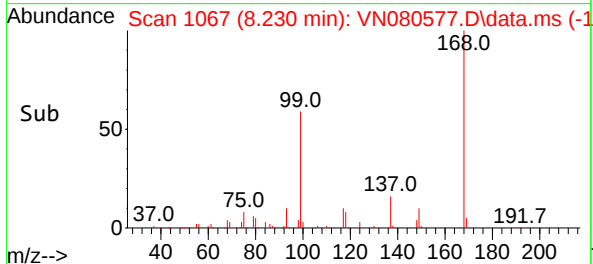
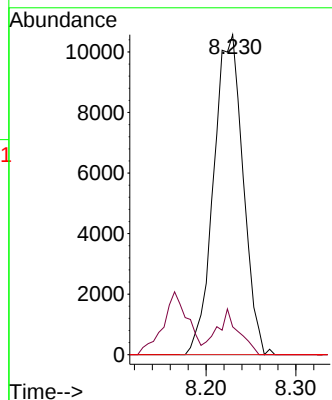


#36
1,1-Dichloropropene
Concen: 3.607 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

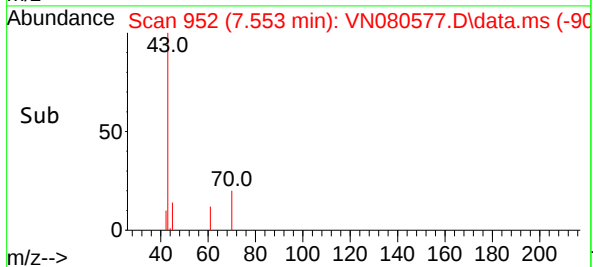
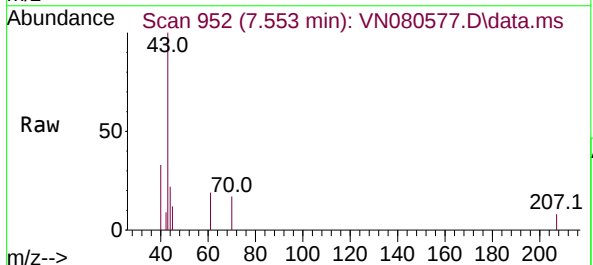
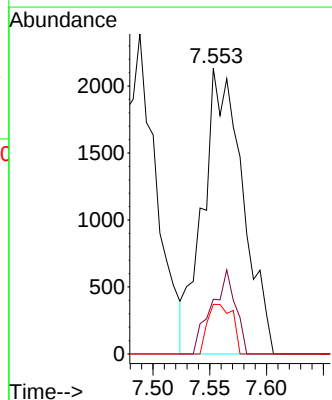


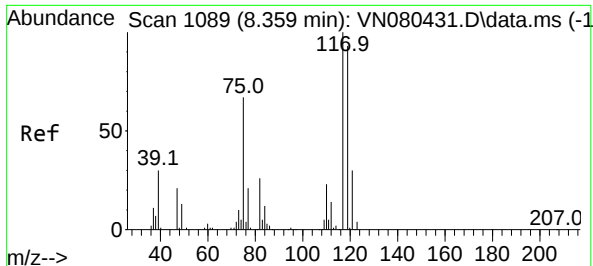
Tgt Ion: 75 Resp: 24026
Ion Ratio Lower Upper
75 100
110 10.7 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.244 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.000 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

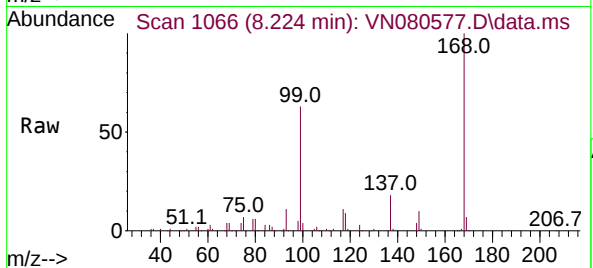
Tgt Ion: 43 Resp: 5189
Ion Ratio Lower Upper
43 100
61 17.7 13.2 19.8
70 10.8 11.3 16.9#



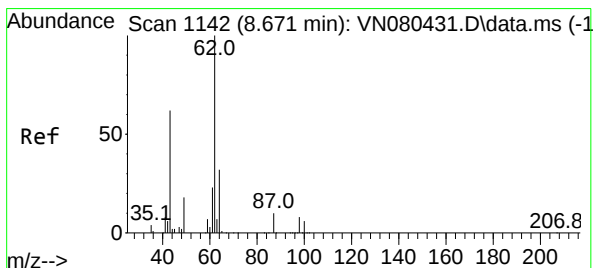
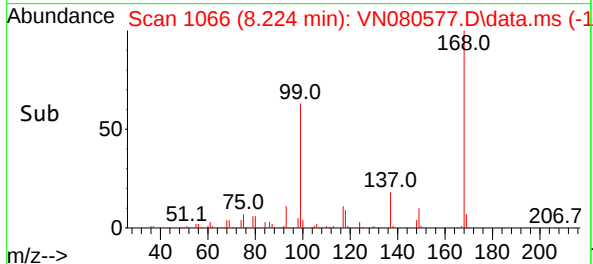
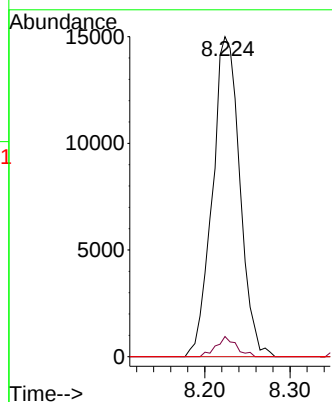


#38
Carbon Tetrachloride
Concen: 4.207 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

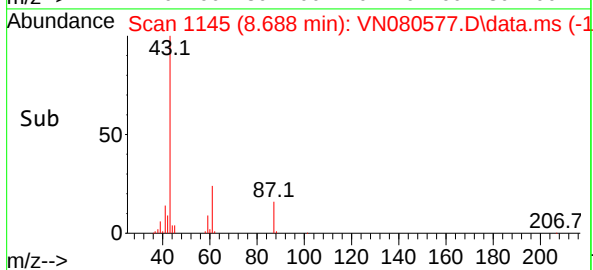
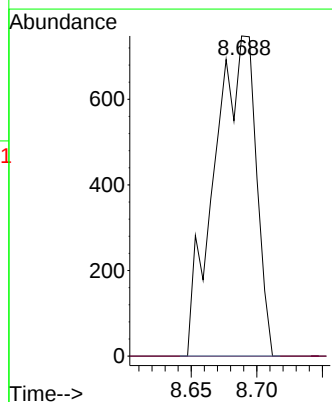
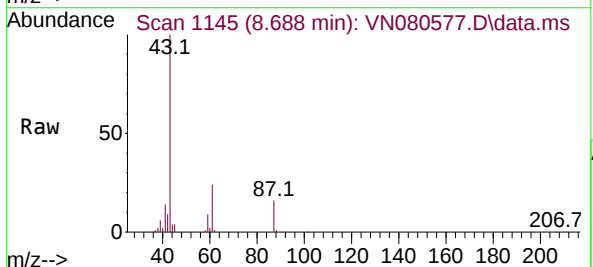


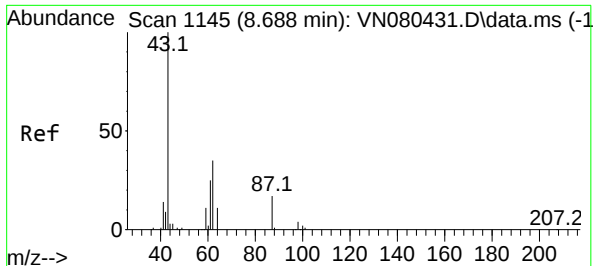
Tgt Ion:117 Resp: 33490
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.231 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 62 Resp: 1643
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 30.681 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

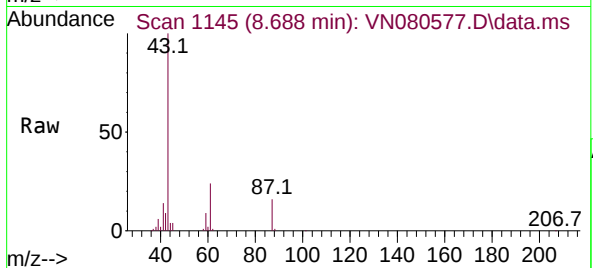
Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

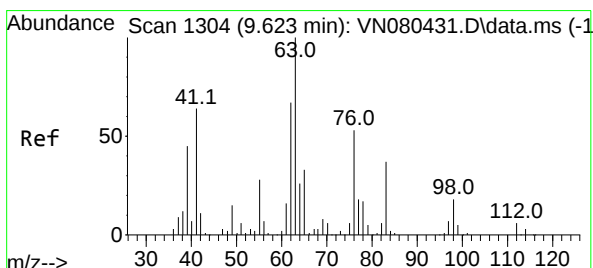
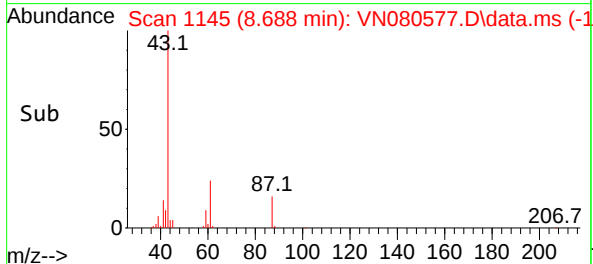
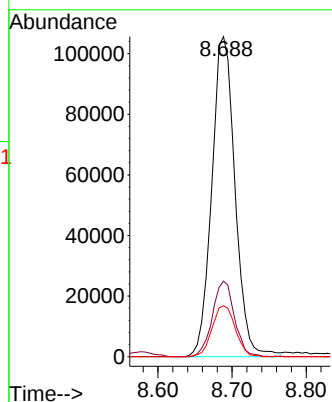
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	230133
Ion	Ratio	Lower	Upper
43	100		
61	22.4	24.7	37.1#
87	15.9	14.6	21.8



#45

1,2-Dichloropropane

Concen: 0.720 ug/l

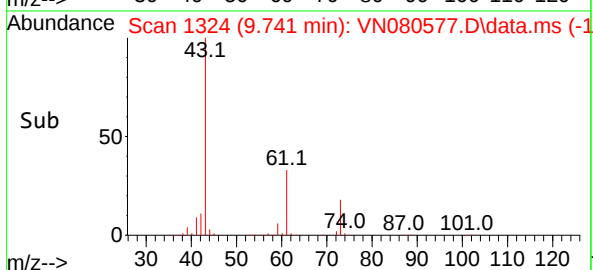
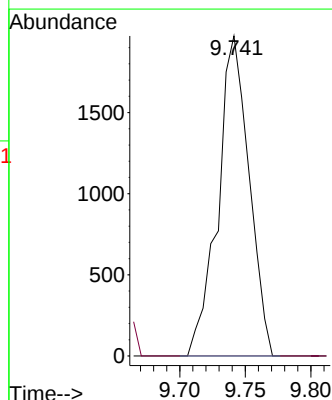
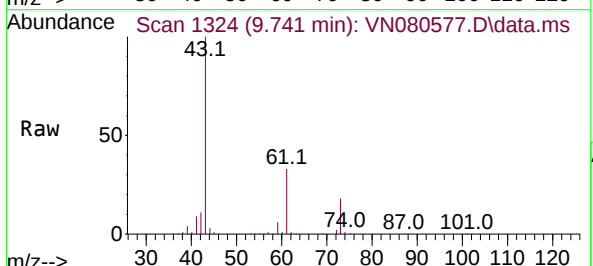
RT: 9.741 min Scan# 1324

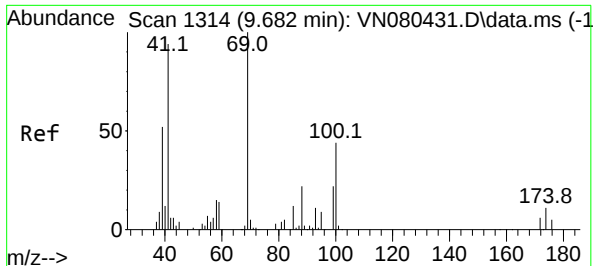
Delta R.T. 0.118 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

Tgt Ion:	63	Resp:	3251
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.9	35.9#





#48

Methyl methacrylate

Concen: 1.575 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.017 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

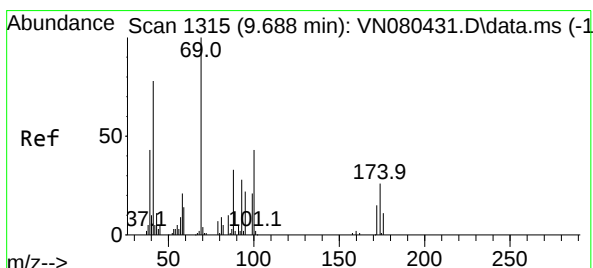
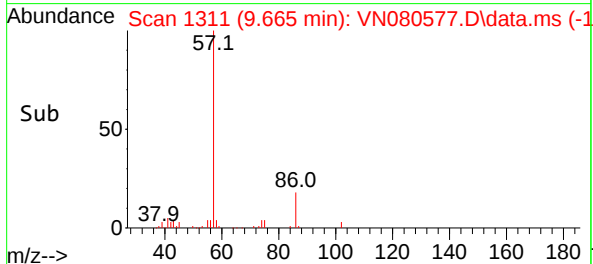
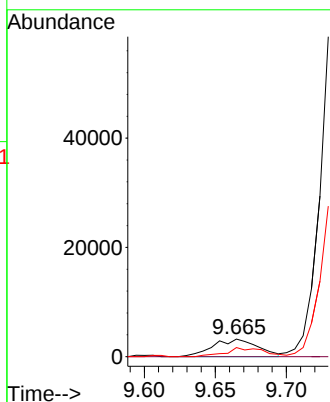
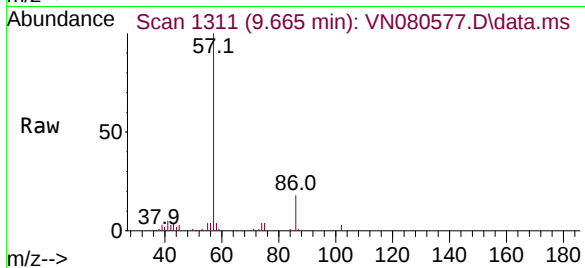
Tgt Ion: 41 Resp: 7051

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 43.4 54.6 81.8#



#49

1,4-Dioxane

Concen: 6.338 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.041 min

Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

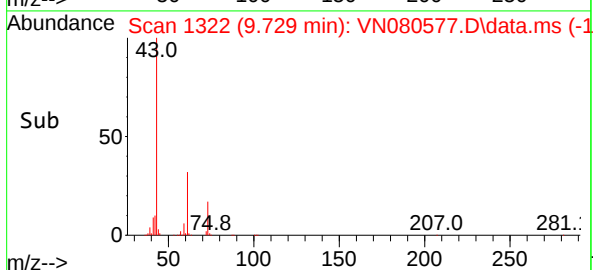
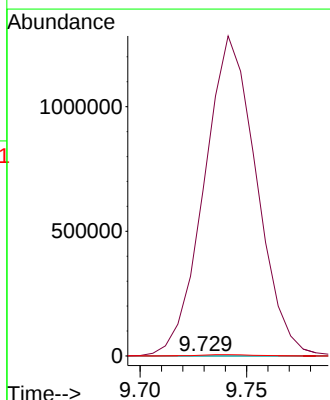
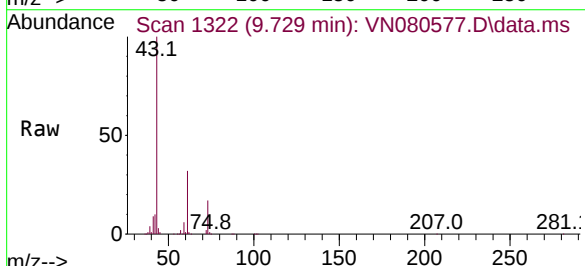
Tgt Ion: 88 Resp: 430

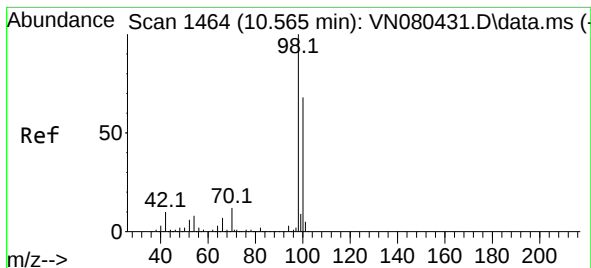
Ion Ratio Lower Upper

88 100

43 512070.0 17.0 25.6#

58 2416.0 47.0 70.4#

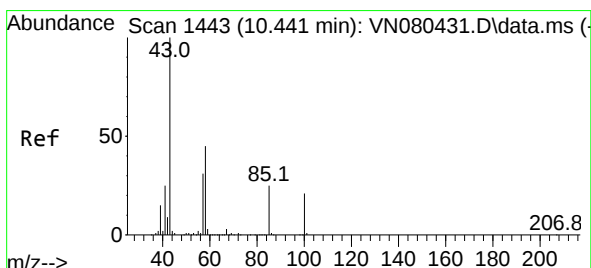
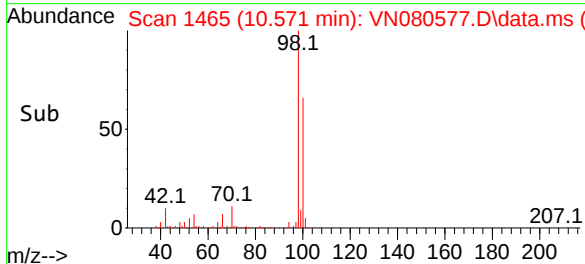
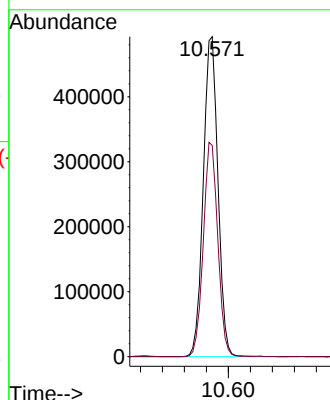
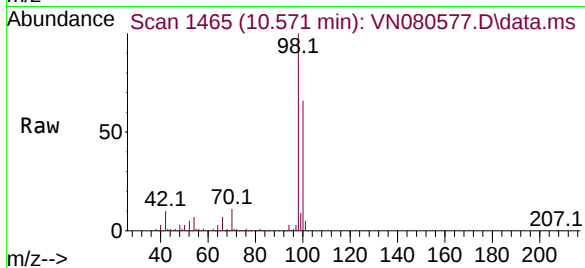




#50
Toluene-d8
Concen: 59.961 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

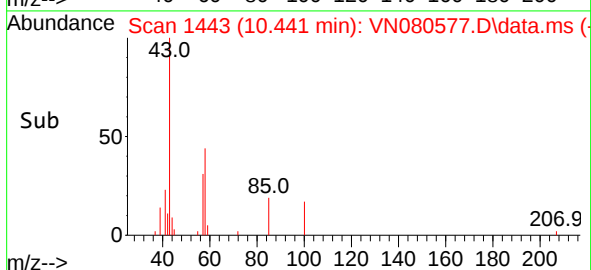
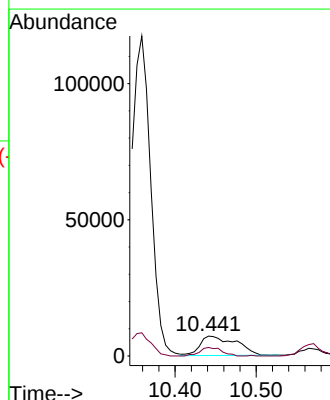
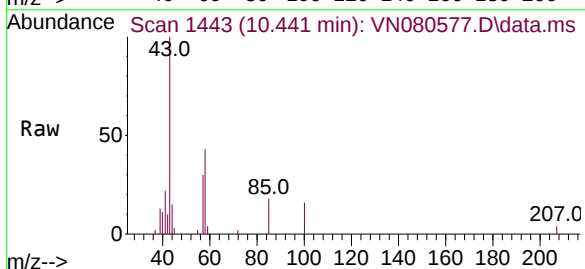
Instrument :
MSVOA_N
ClientSampleId :

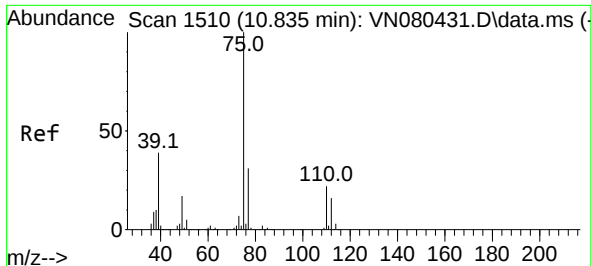
Tgt Ion: 98 Resp: 911129
Ion Ratio Lower Upper
98 100
100 66.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 5.338 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 43 Resp: 22050
Ion Ratio Lower Upper
43 100
58 26.6 36.6 54.8#

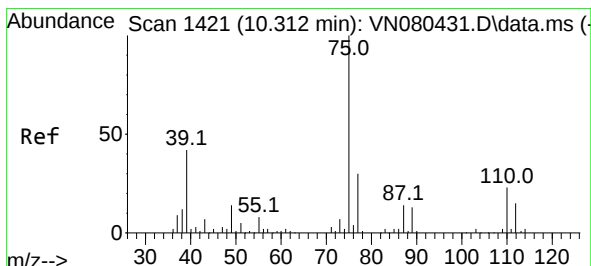
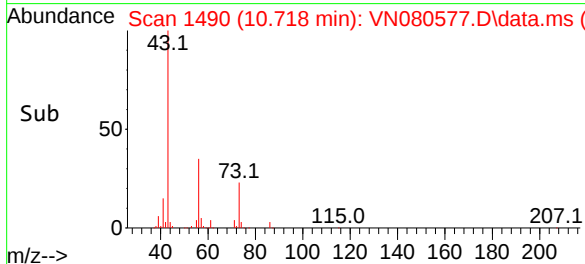
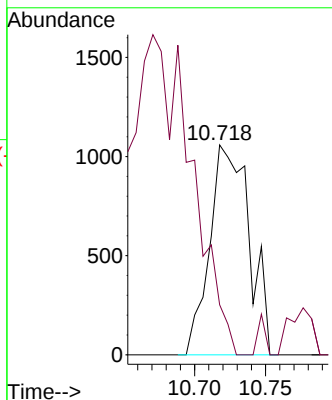
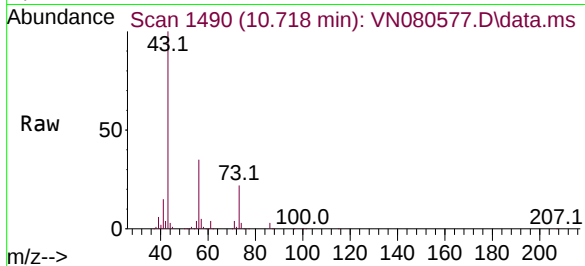




#53
t-1,3-Dichloropropene
Concen: 0.273 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.117 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

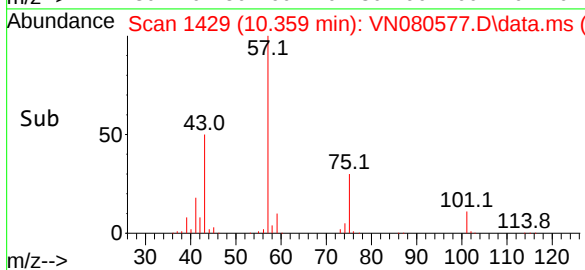
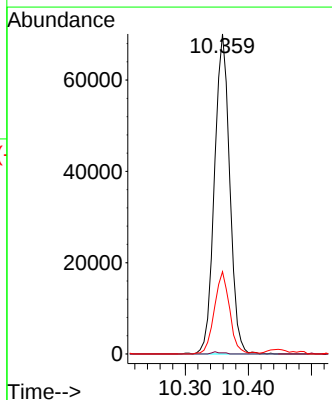
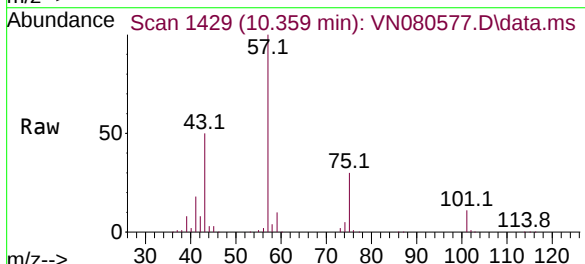
Instrument :
MSVOA_N
ClientSampleId :

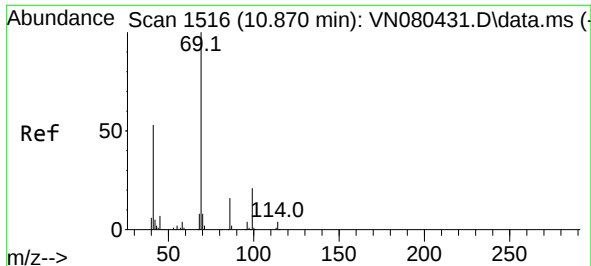
Tgt Ion: 75 Resp: 2054
Ion Ratio Lower Upper
75 100
77 23.8 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 14.605 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

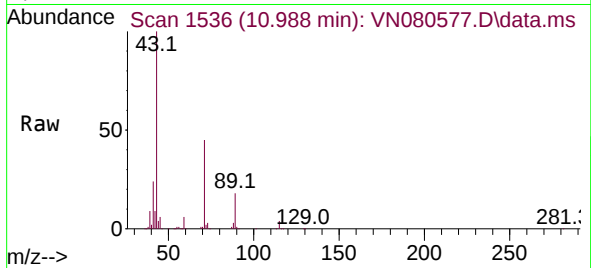
Tgt Ion: 75 Resp: 117451
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 25.7 31.6 47.4#



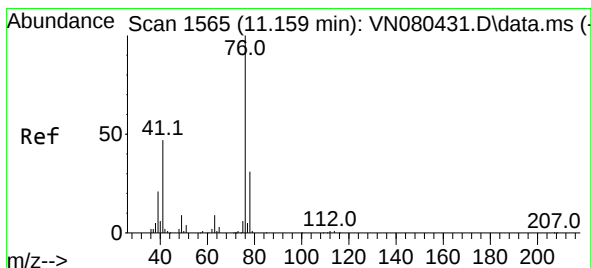
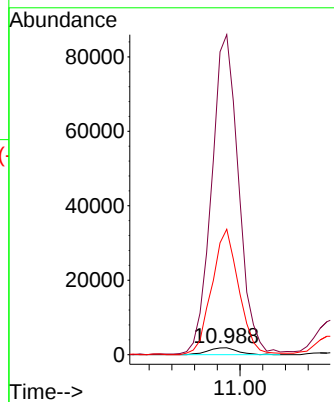
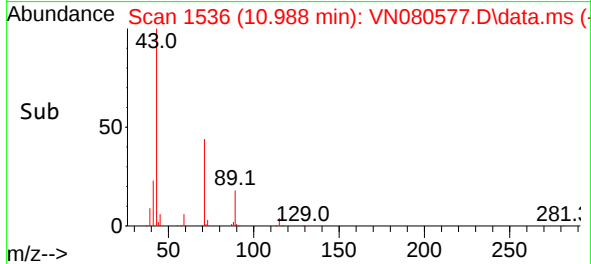


#56
Ethyl methacrylate
Concen: 0.691 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :

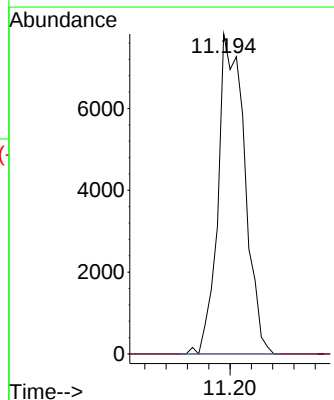
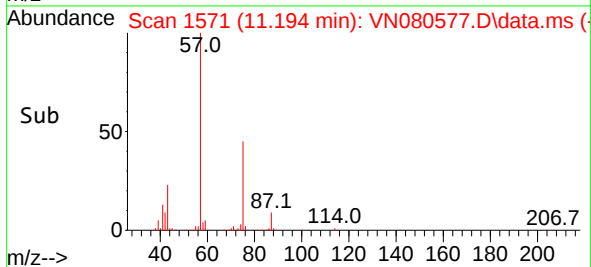
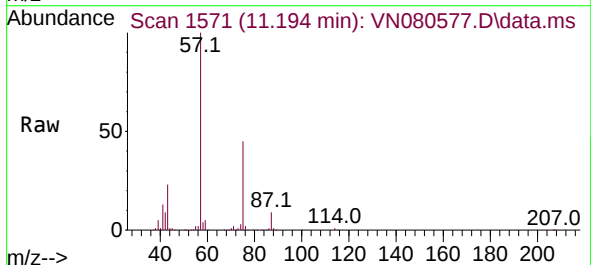


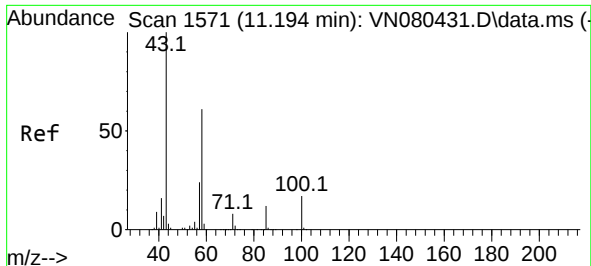
Tgt Ion: 69 Resp: 3347
Ion Ratio Lower Upper
69 100
41 4274.5 39.6 59.4#
39 1667.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.769 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 76 Resp: 13558
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

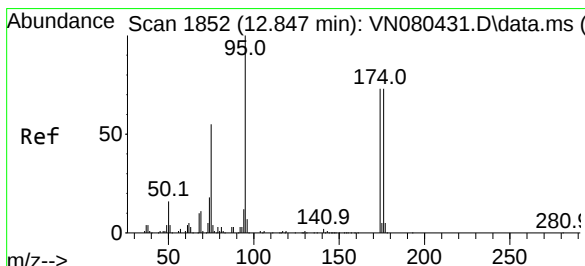
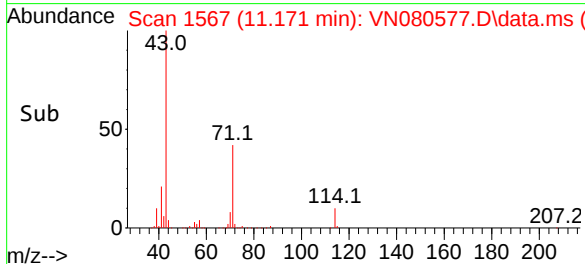
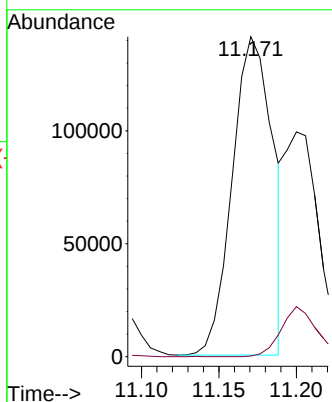
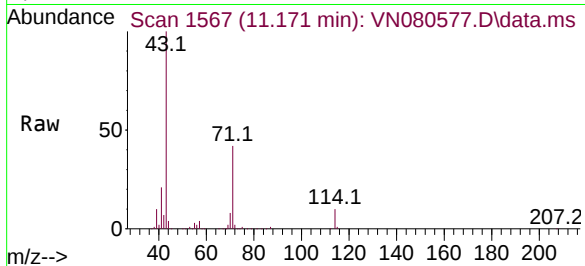




#59
2-Hexanone
Concen: 83.839 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

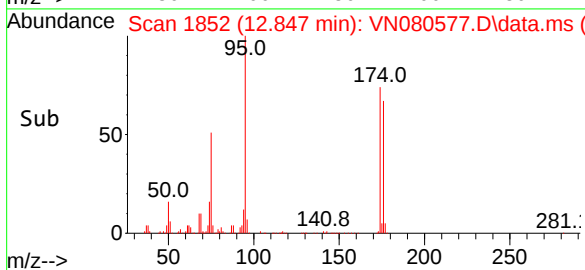
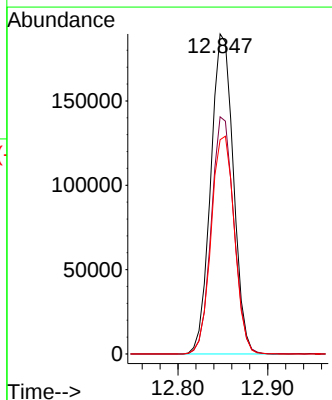
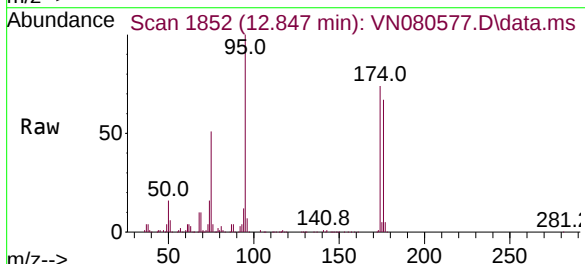
Instrument :
MSVOA_N
ClientSampleId :

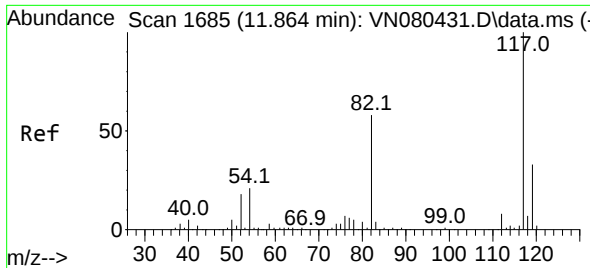
Tgt Ion: 43 Resp: 255684
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 57.612 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion: 95 Resp: 332422
Ion Ratio Lower Upper
95 100
174 73.6 0.0 143.8
176 69.9 0.0 135.8

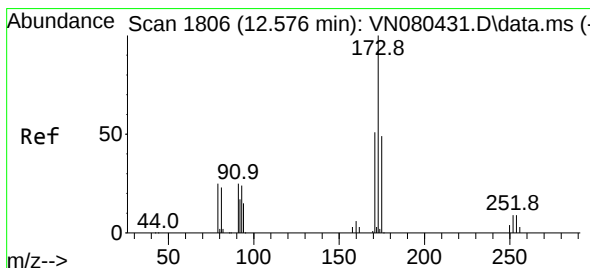
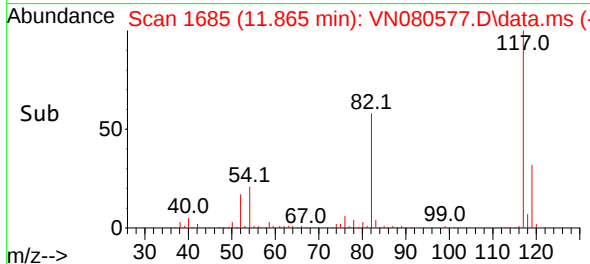
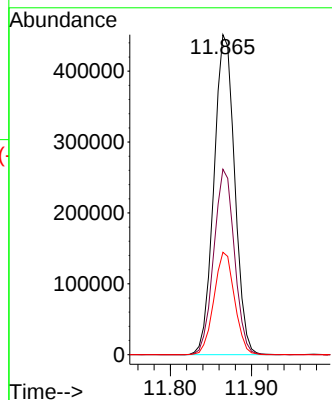
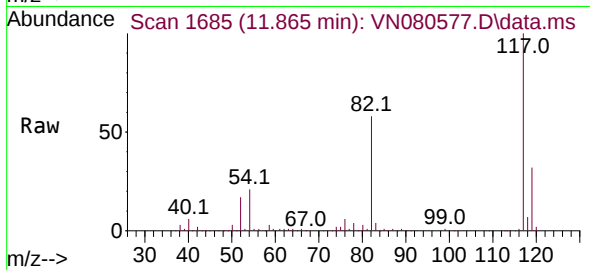




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

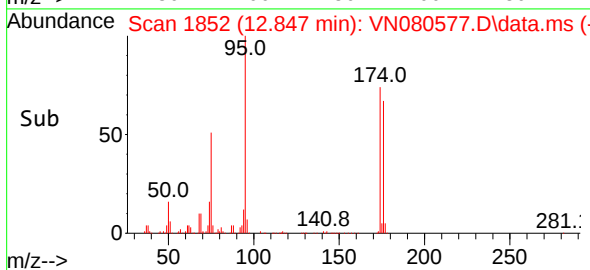
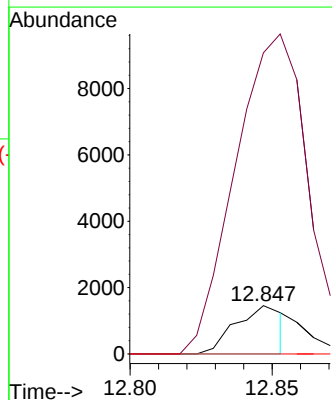
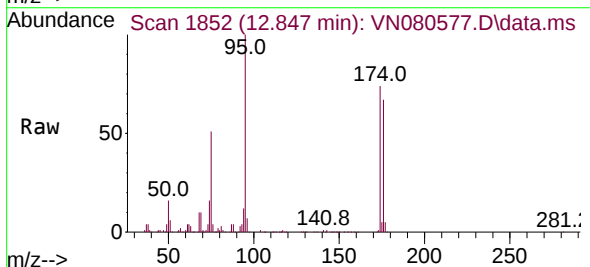
Instrument :
MSVOA_N
ClientSampleId :

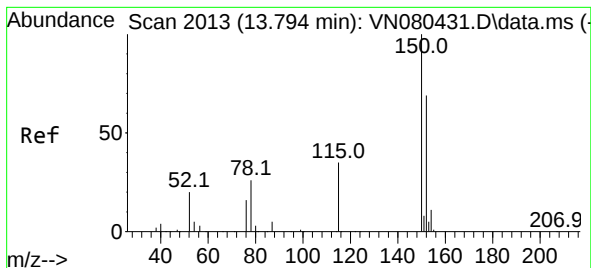
Tgt Ion:117 Resp: 802408
Ion Ratio Lower Upper
117 100
82 57.9 44.0 66.0
119 32.0 25.6 38.4



#71
Bromoform
Concen: 0.330 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN080577.D
Acq: 21 Dec 2023 16:38

Tgt Ion:173 Resp: 1683
Ion Ratio Lower Upper
173 100
175 0.0 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# 20

Delta R.T. 0.000 min

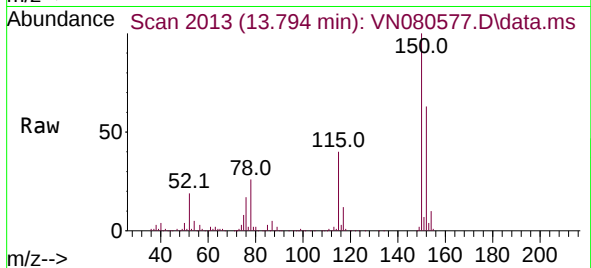
Lab File: VN080577.D

Acq: 21 Dec 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :



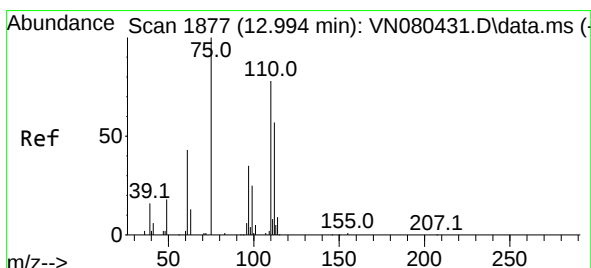
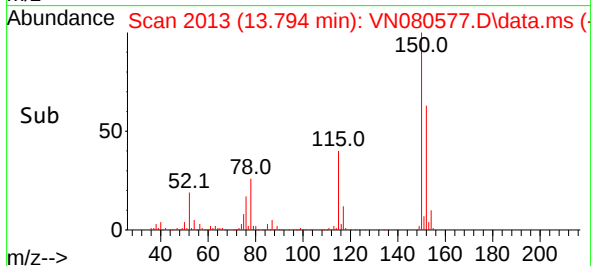
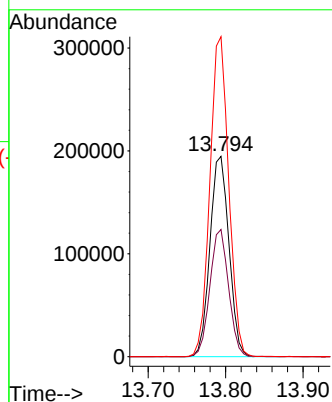
Tgt Ion:152 Resp: 332909

Ion Ratio Lower Upper

152 100

115 62.4 32.3 96.8

150 157.7 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 24.932 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080577.D

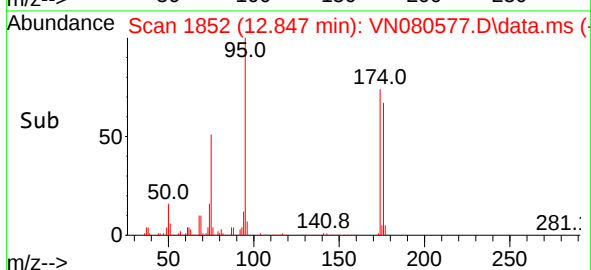
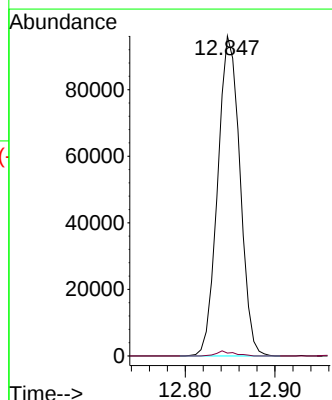
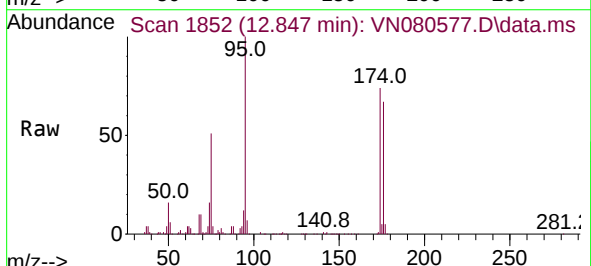
Acq: 21 Dec 2023 16:38

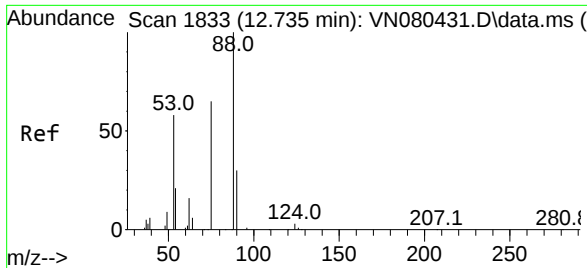
Tgt Ion: 75 Resp: 165584

Ion Ratio Lower Upper

75 100

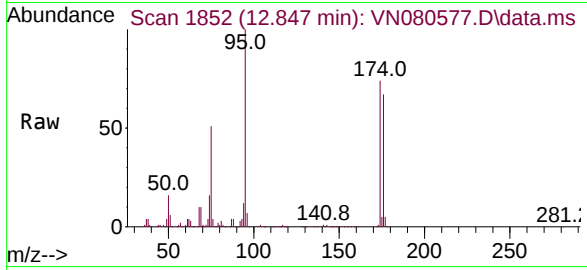
77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.461 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN080577.D
 Acq: 21 Dec 2023 16:38

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 165584
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

