

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111723\
 Data File : VN080165.D
 Acq On : 17 Nov 2023 16:05
 Operator : JC\MD
 Sample : 05449-30
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 18 02:32:20 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

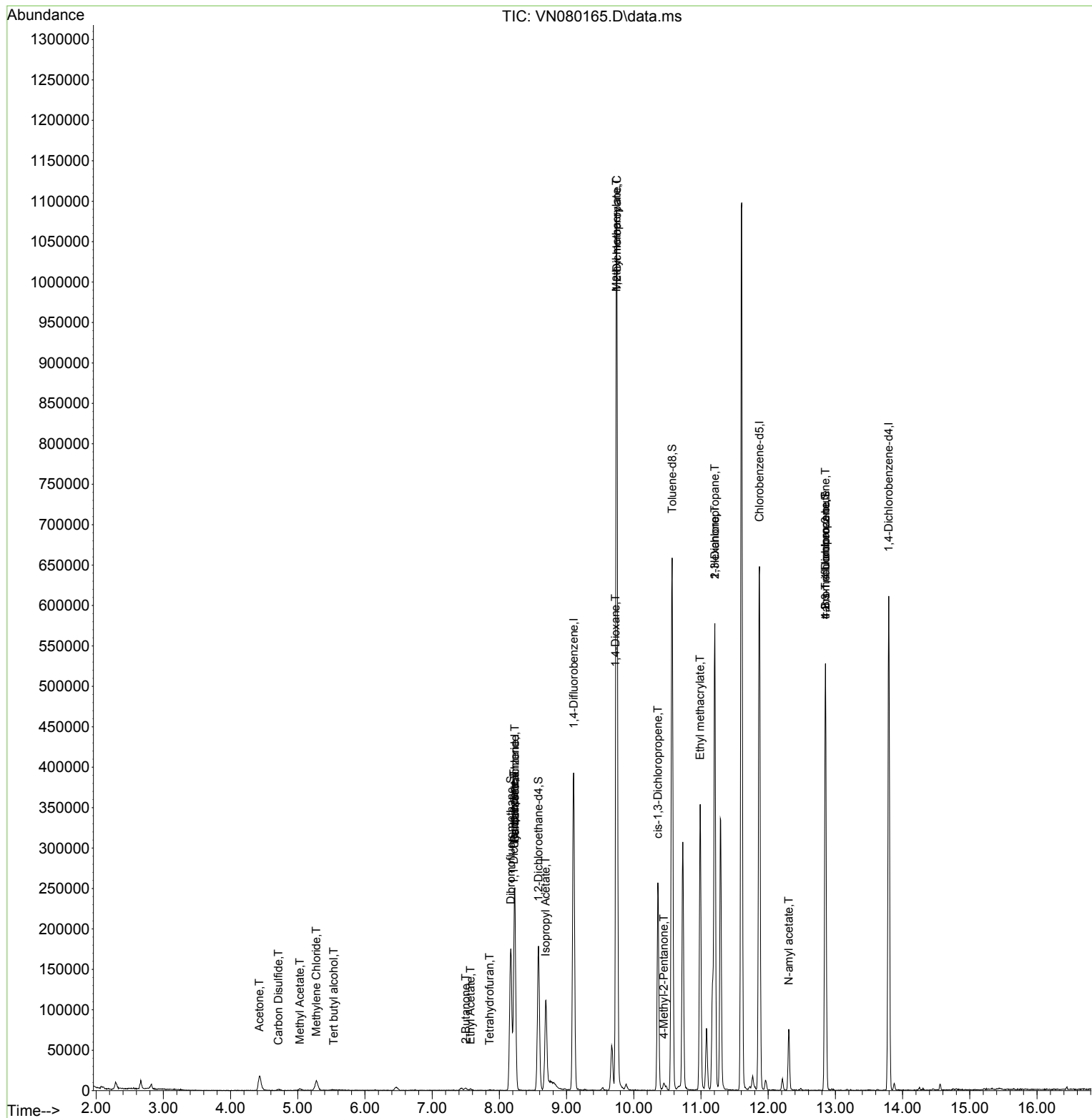
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	172558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	328925	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	368372	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	159786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	158216	55.530	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.060%	
35) Dibromofluoromethane	8.171	113	123482	50.878	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.760%	
50) Toluene-d8	10.571	98	457905	52.338	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.680%	
62) 4-Bromofluorobenzene	12.853	95	178258	53.942	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.880%	
Target Compounds						Qvalue
6) Chloroethane	3.106	64	101	Below Cal	#	43
11) Tert butyl alcohol	5.536	59	129	0.412	ug/l #	72
16) Acetone	4.430	43	34774	36.337	ug/l	99
17) Carbon Disulfide	4.712	76	2410	0.443	ug/l #	75
18) Methyl Acetate	5.030	43	3555	1.156	ug/l #	87
20) Methylene Chloride	5.277	84	9300	4.641	ug/l	87
25) 2-Butanone	7.500	43	5152	4.531	ug/l #	87
29) Tetrahydrofuran	7.853	42	419	0.686	ug/l #	20
31) Cyclohexane	8.224	56	4052	1.308	ug/l #	34
36) 1,1-Dichloropropene	8.218	75	15057	4.285	ug/l #	51
37) Ethyl Acetate	7.571	43	3187	1.308	ug/l #	76
38) Carbon Tetrachloride	8.230	117	20180	4.526	ug/l #	15
43) Isopropyl Acetate	8.688	43	130396	27.492	ug/l #	84
45) 1,2-Dichloropropane	9.747	63	1681	0.724	ug/l #	45
48) Methyl methacrylate	9.741	41	102068	41.758	ug/l #	29
49) 1,4-Dioxane	9.729	88	60	1.476	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	5379	2.191	ug/l	95
54) cis-1,3-Dichloropropene	10.359	75	47393	11.683	ug/l #	66
56) Ethyl methacrylate	10.988	69	1797	0.737	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6987	1.678	ug/l #	42
59) 2-Hexanone	11.206	43	62059	31.451	ug/l #	51
74) N-amyl acetate	12.306	43	21759	5.619	ug/l #	45
76) 1,2,3-Trichloropropane	12.853	75	101759	25.992	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101759	87.816	ug/l #	15

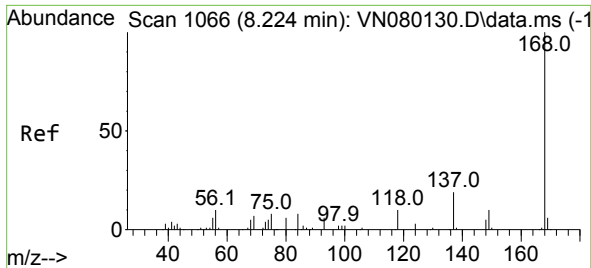
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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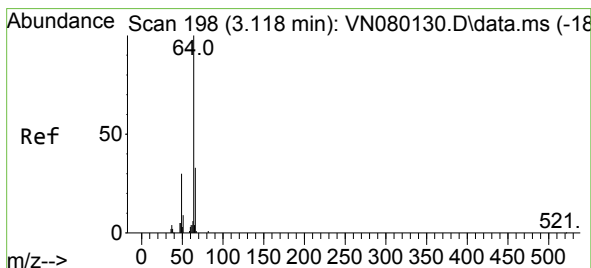
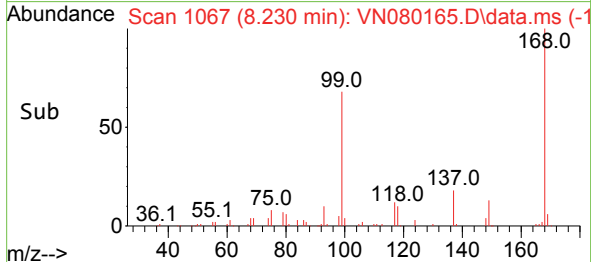
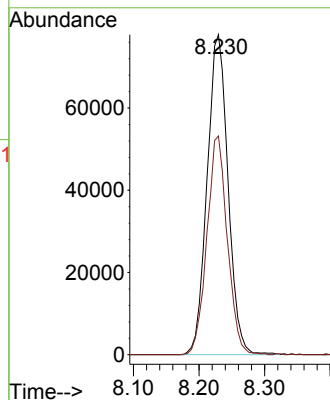
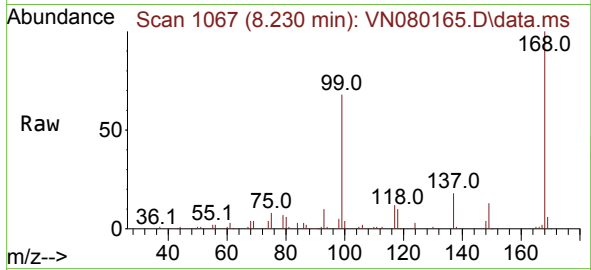




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

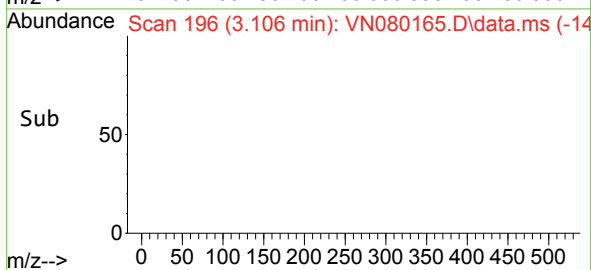
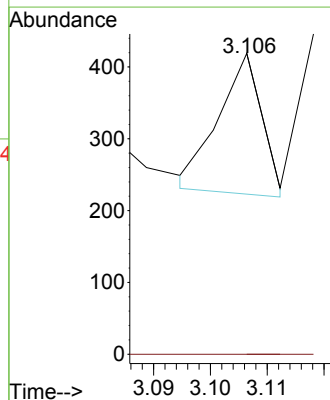
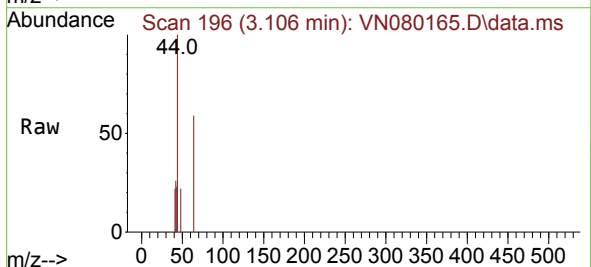
Instrument :
MSVOA_N
ClientSampleId :

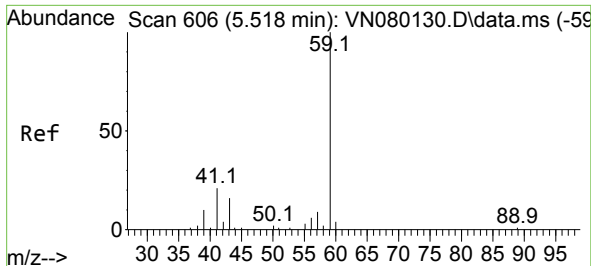
Tgt Ion:168 Resp: 172558
Ion Ratio Lower Upper
168 100
99 68.3 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion: 64 Resp: 101
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.412 ug/l

RT: 5.536 min Scan# 606

Delta R.T. 0.018 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

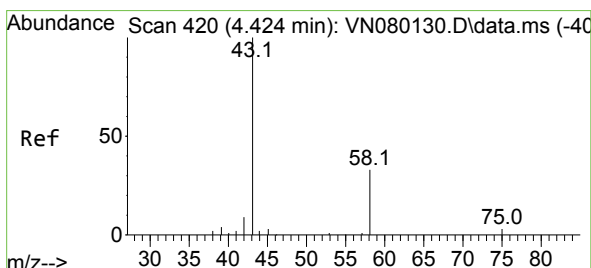
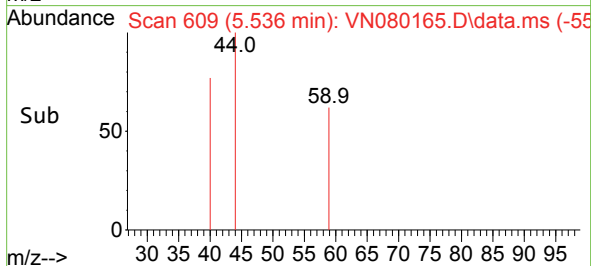
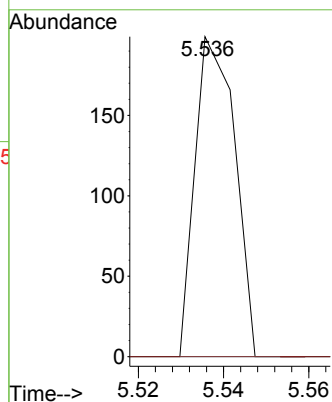
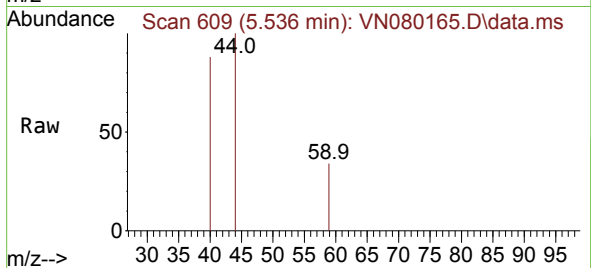
ClientSampleId :

Tgt Ion: 59 Resp: 129

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 36.337 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN080165.D

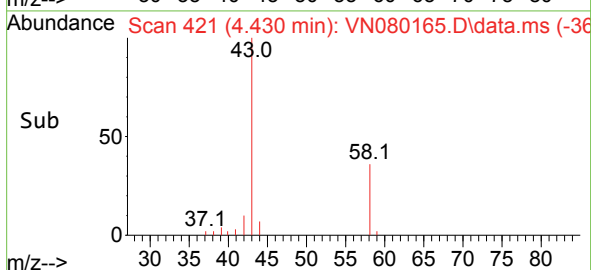
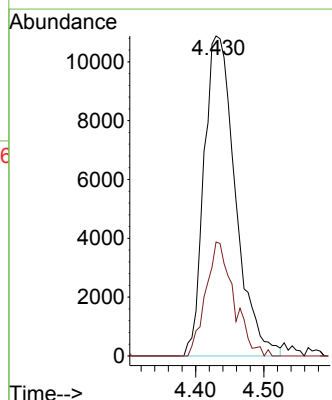
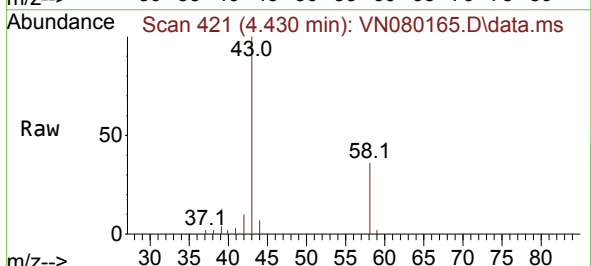
Acq: 17 Nov 2023 16:05

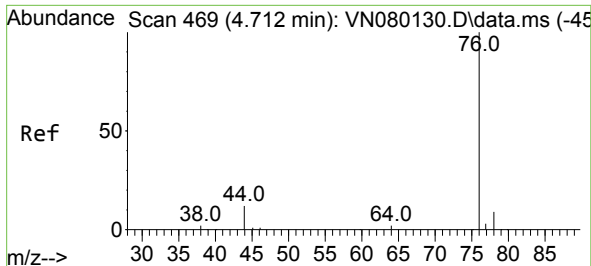
Tgt Ion: 43 Resp: 34774

Ion Ratio Lower Upper

43 100

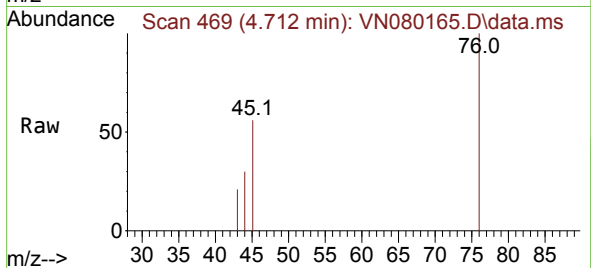
58 35.6 28.0 42.0



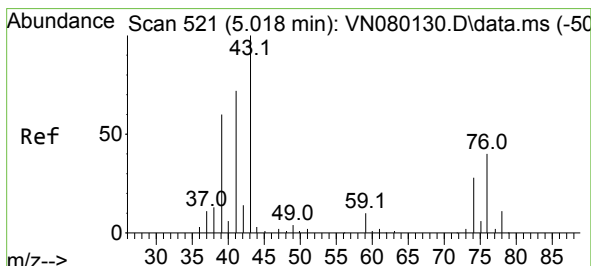
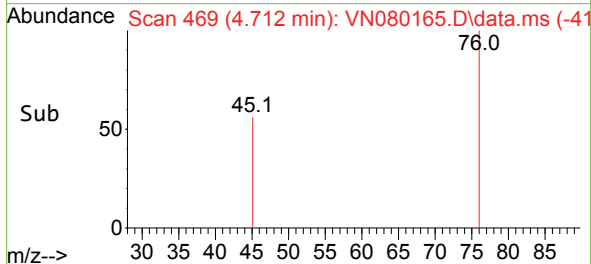
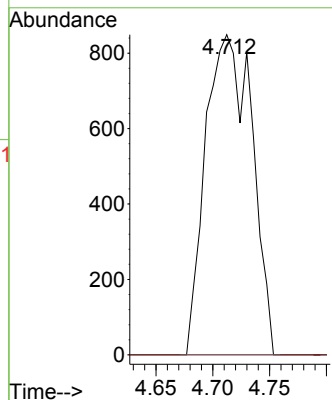


#17
Carbon Disulfide
Concen: 0.443 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Instrument :
MSVOA_N
ClientSampleId :

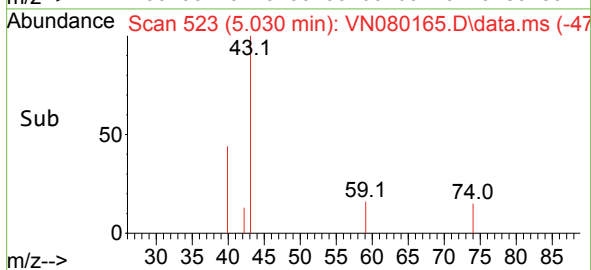
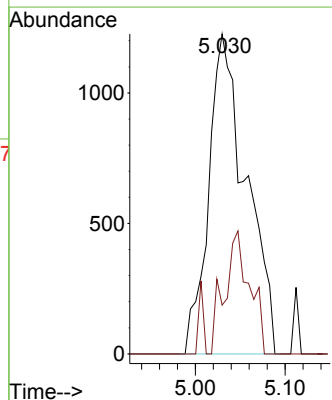
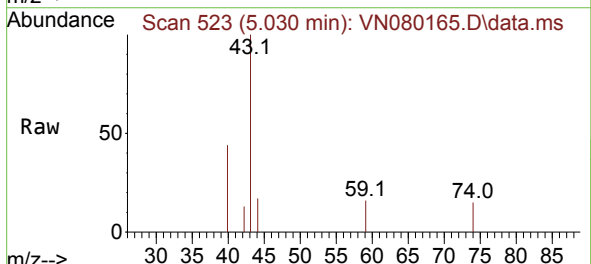


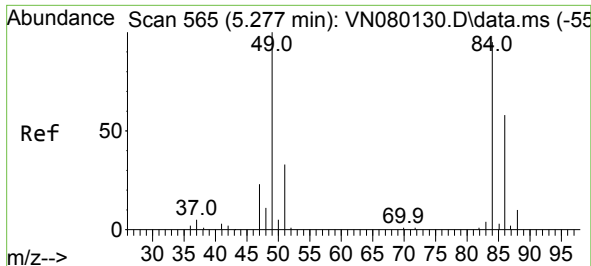
Tgt Ion: 76 Resp: 2410
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 1.156 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

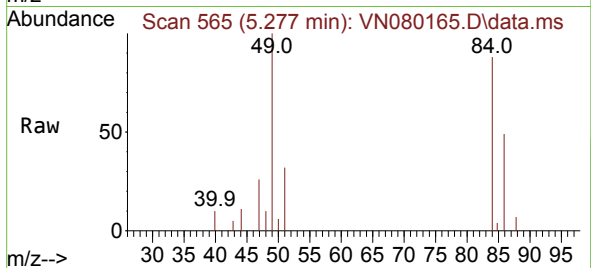
Tgt Ion: 43 Resp: 3555
Ion Ratio Lower Upper
43 100
74 25.7 26.2 39.4#



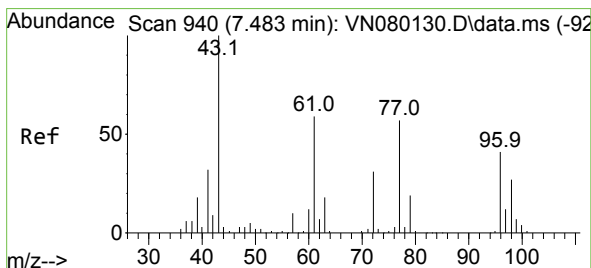
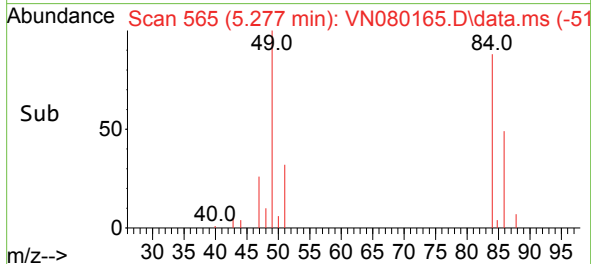
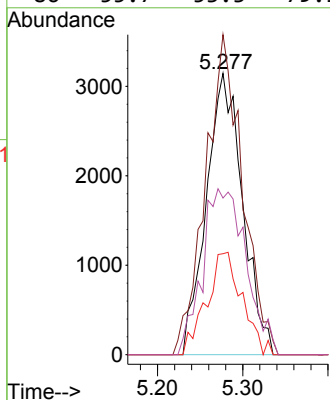


#20
Methylene Chloride
Concen: 4.641 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Instrument :
MSVOA_N
ClientSampleId :

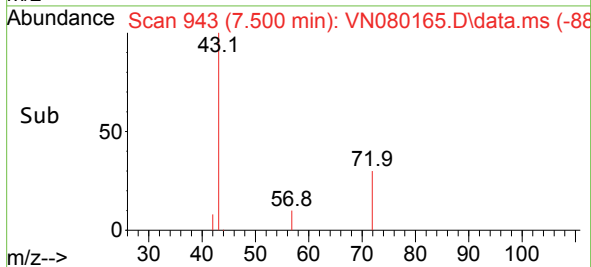
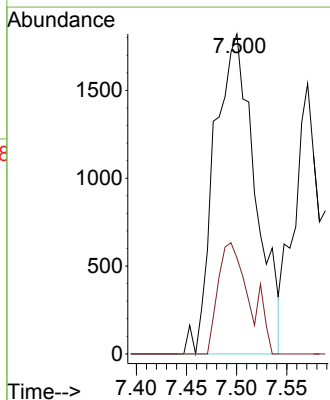
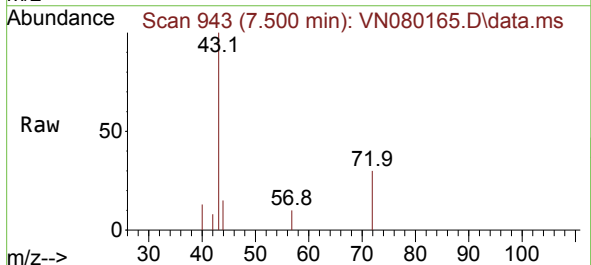


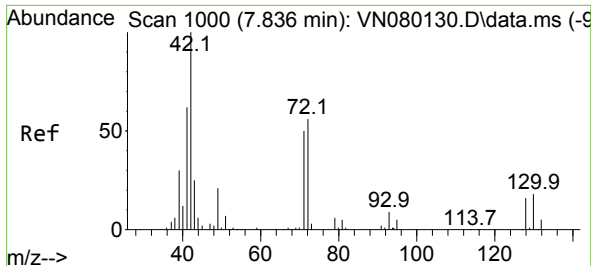
Tgt Ion:	84	Resp:	9300
Ion	Ratio	Lower	Upper
84	100		
49	113.8	79.7	119.5
51	35.9	25.2	37.8
86	55.7	53.3	79.9



#25
2-Butanone
Concen: 4.531 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.018 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion:	43	Resp:	5152
Ion	Ratio	Lower	Upper
43	100		
72	30.0	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.686 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.018 min

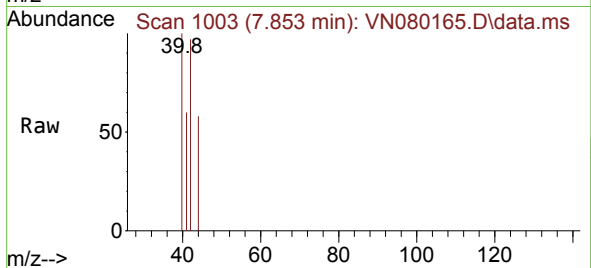
Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

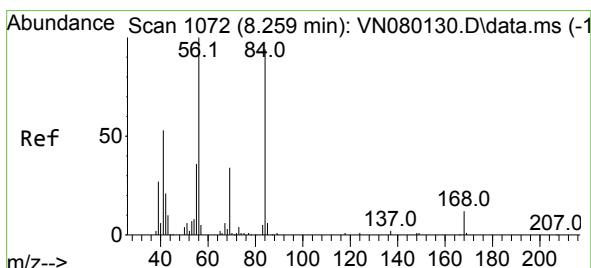
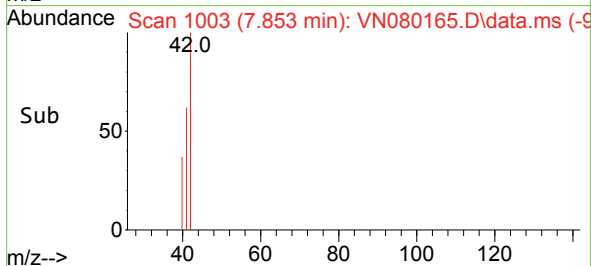
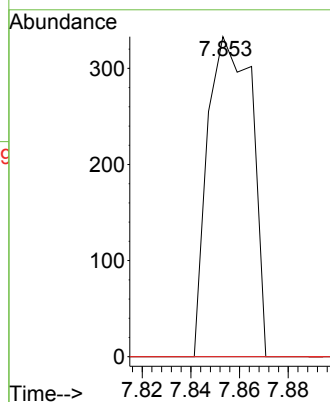
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	419
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.308 ug/l

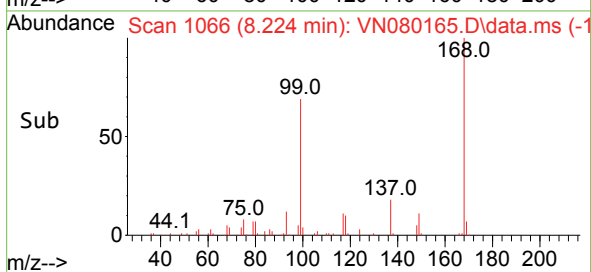
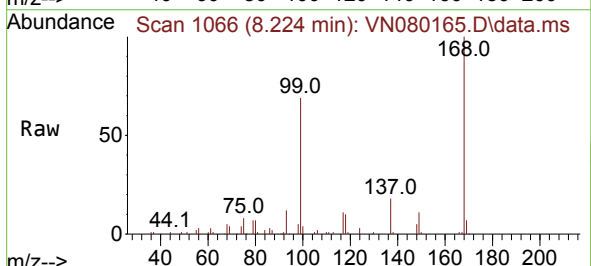
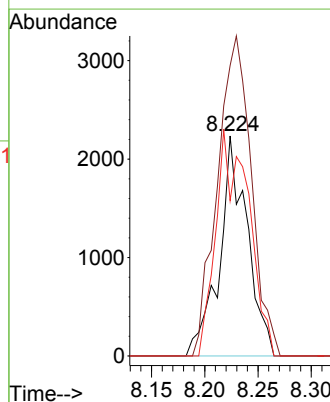
RT: 8.224 min Scan# 1066

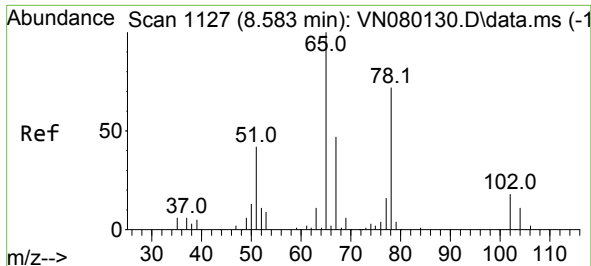
Delta R.T. -0.035 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Tgt Ion:	56	Resp:	4052
Ion	Ratio	Lower	Upper
56	100		
69	132.0	26.8	40.2#
84	70.6	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 55.530 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

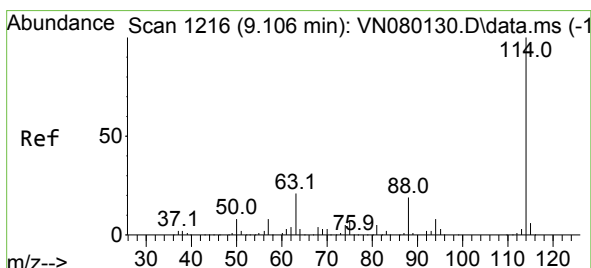
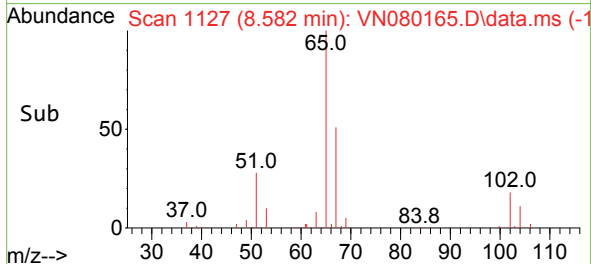
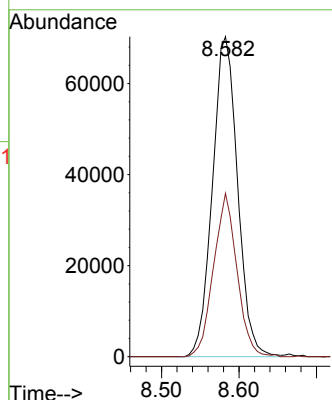
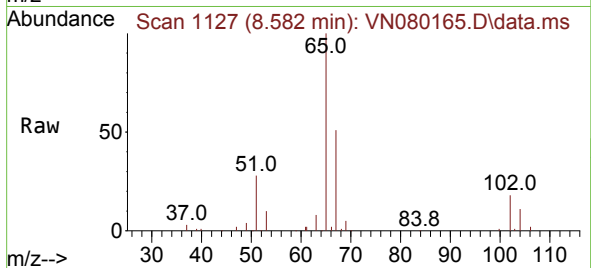
ClientSampleId :

Tgt Ion: 65 Resp: 158216

Ion Ratio Lower Upper

65 100

67 47.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

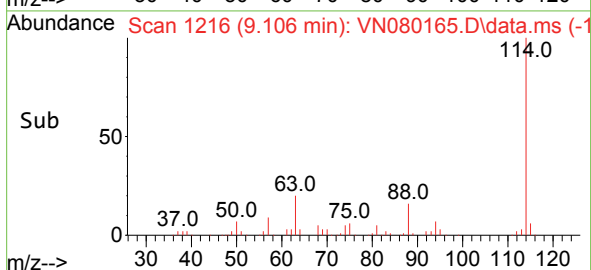
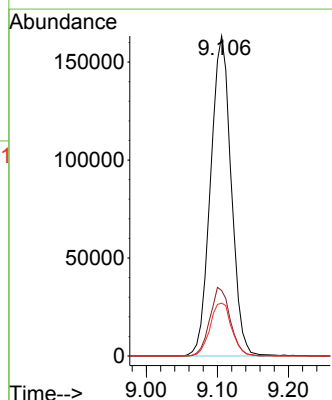
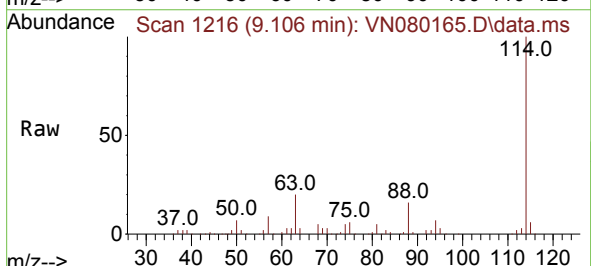
Tgt Ion: 114 Resp: 328925

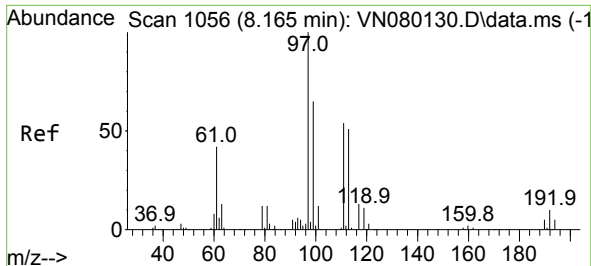
Ion Ratio Lower Upper

114 100

63 20.4 0.0 36.4

88 16.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.878 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

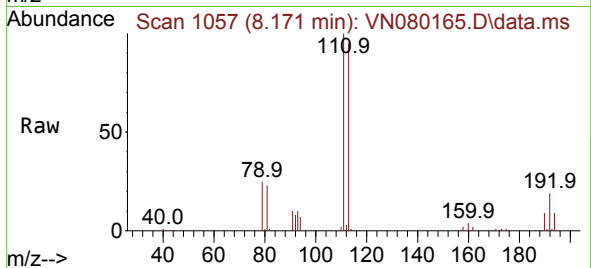
Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :



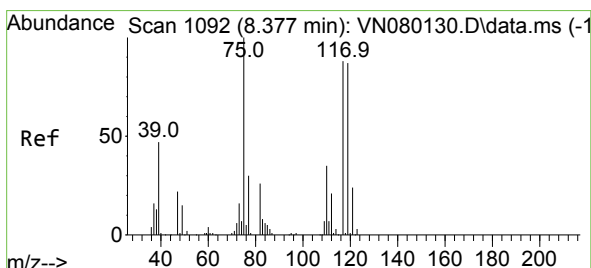
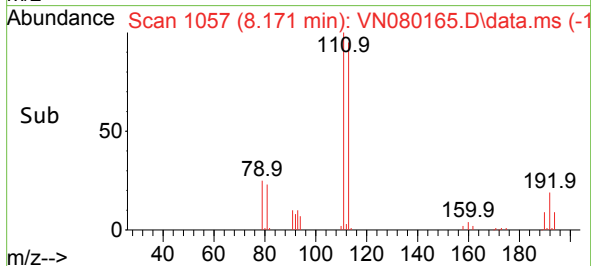
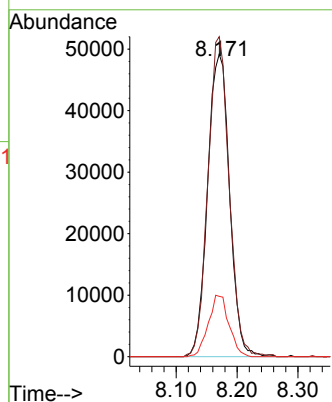
Tgt Ion:113 Resp: 123482

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

192 19.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.285 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.159 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

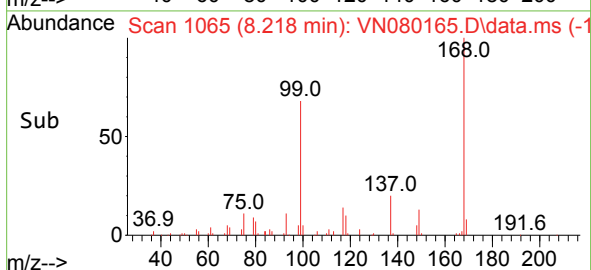
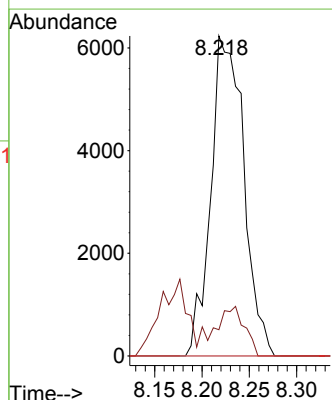
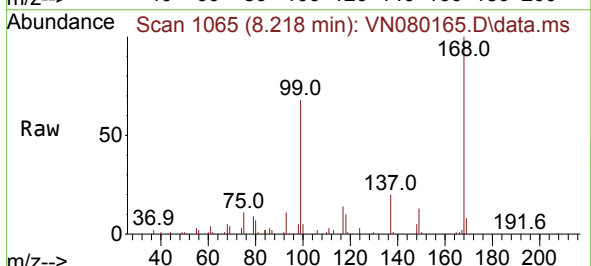
Tgt Ion: 75 Resp: 15057

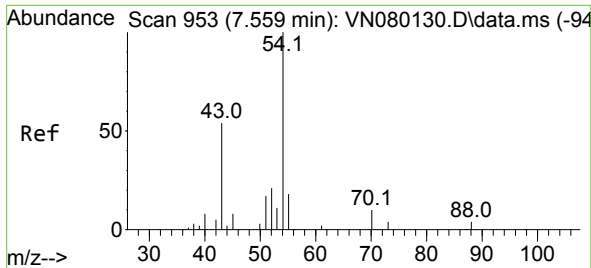
Ion Ratio Lower Upper

75 100

110 12.3 19.1 57.3#

77 0.0 25.0 37.4#

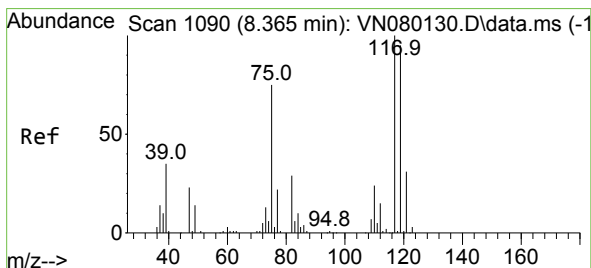
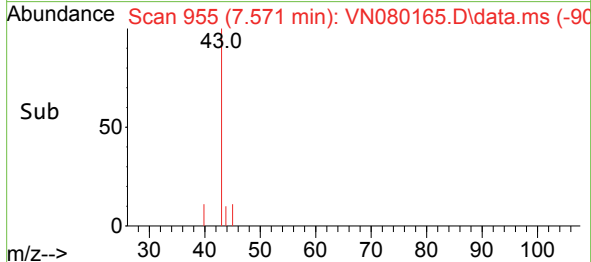
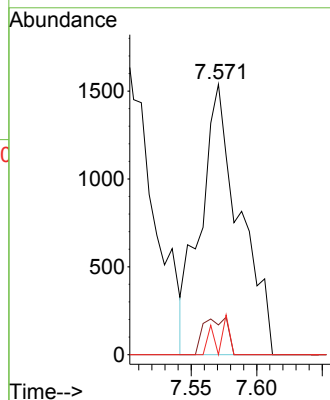
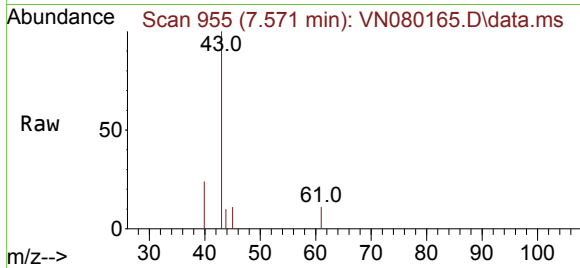




#37
Ethyl Acetate
Concen: 1.308 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

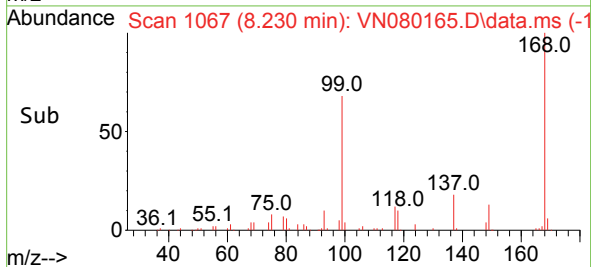
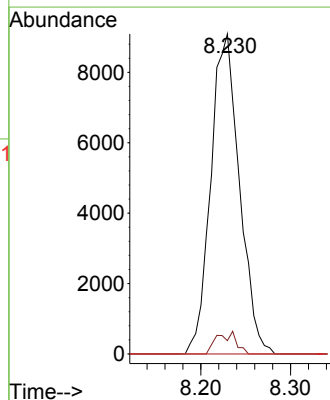
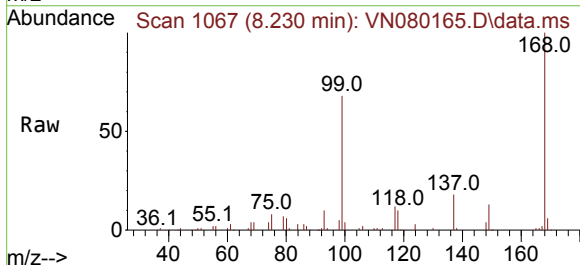
Instrument :
MSVOA_N
ClientSampleId :

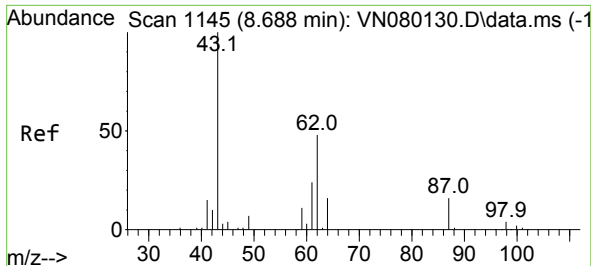
Tgt Ion	Ratio	Lower	Upper
43	100		
61	8.4	13.2	19.8#
70	1.9	11.3	16.9#



#38
Carbon Tetrachloride
Concen: 4.526 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	77.3	115.9#
121	0.0	23.3	34.9#

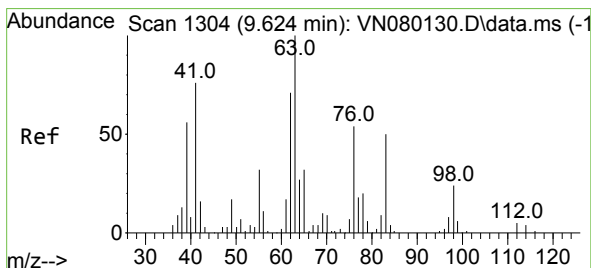
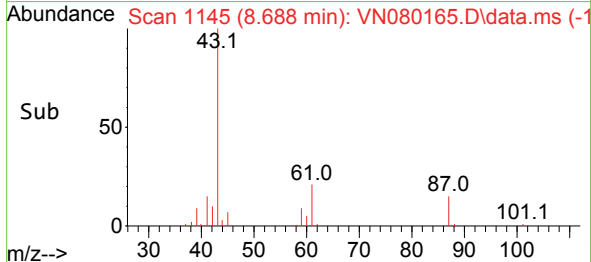
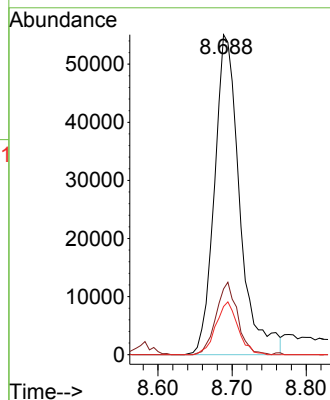
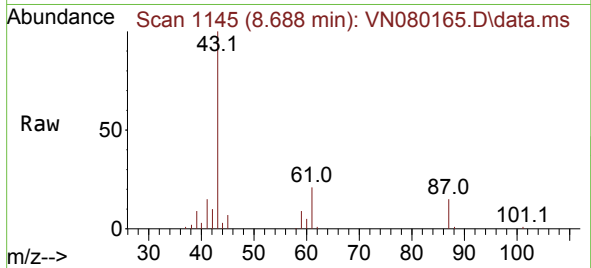




#43
Isopropyl Acetate
Concen: 27.492 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

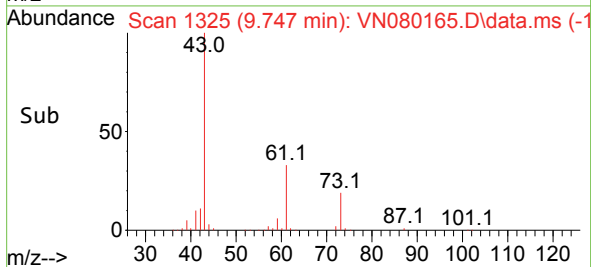
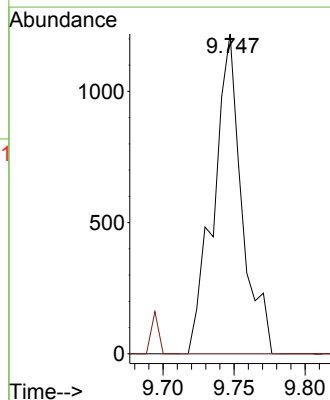
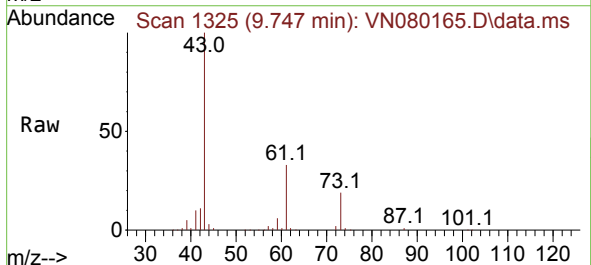
Instrument :
MSVOA_N
ClientSampleId :

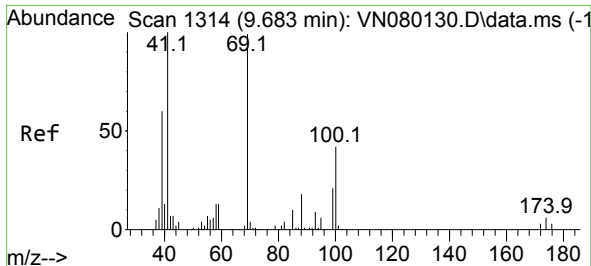
Tgt Ion: 43 Resp: 130396
Ion Ratio Lower Upper
43 100
61 19.2 24.7 37.1#
87 14.5 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.724 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

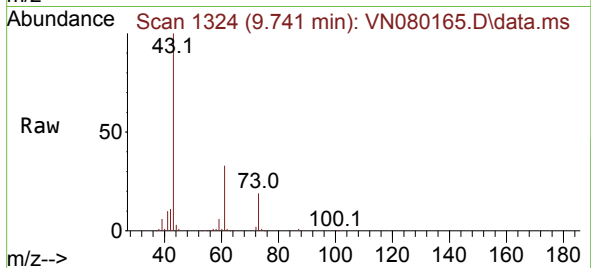
Tgt Ion: 63 Resp: 1681
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



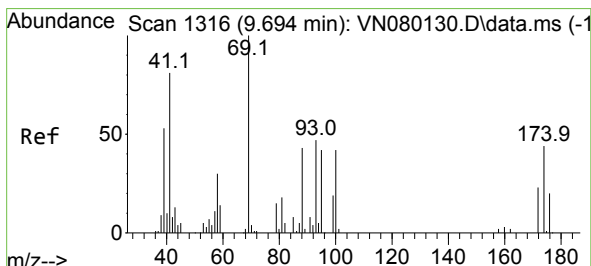
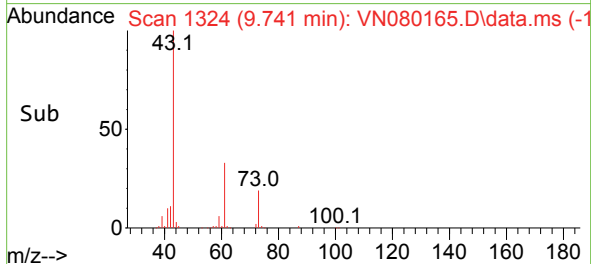
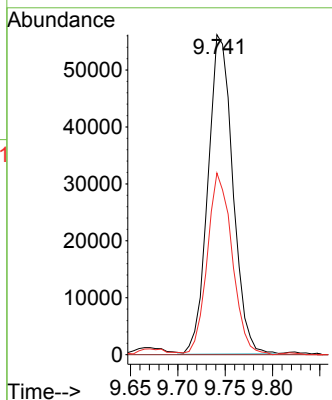


#48
Methyl methacrylate
Concen: 41.758 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Instrument :
MSVOA_N
ClientSampleId :

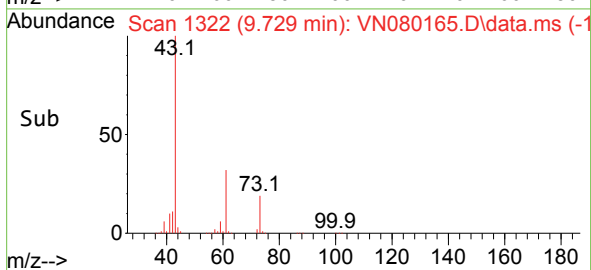
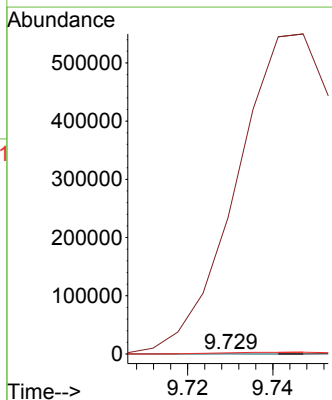
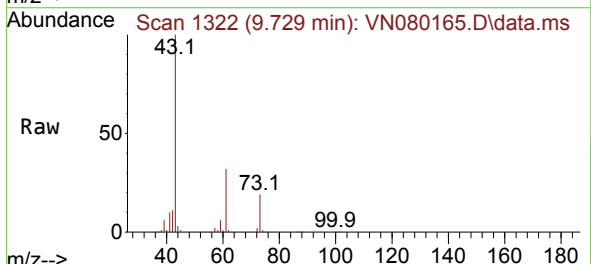


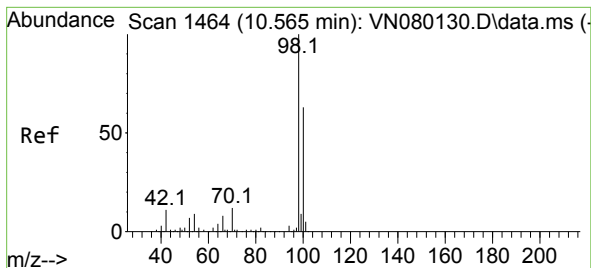
Tgt Ion: 41 Resp: 102068
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 57.1 54.6 81.8



#49
1,4-Dioxane
Concen: 1.476 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.035 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 52.338 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

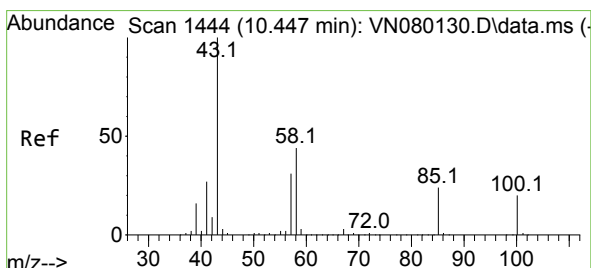
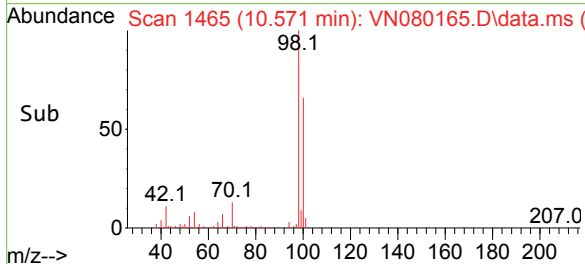
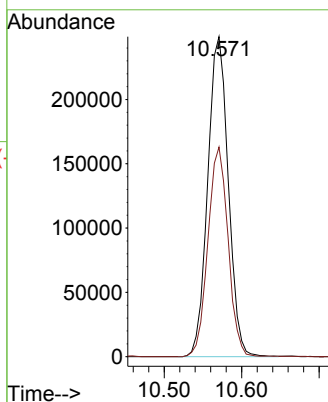
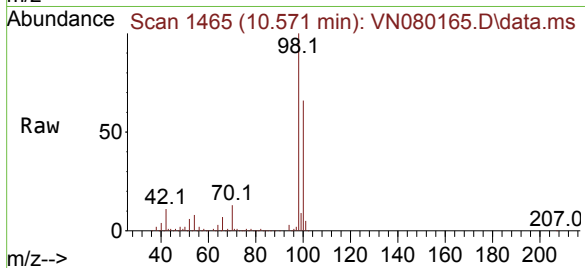
ClientSampleId :

Tgt Ion: 98 Resp: 457905

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.191 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN080165.D

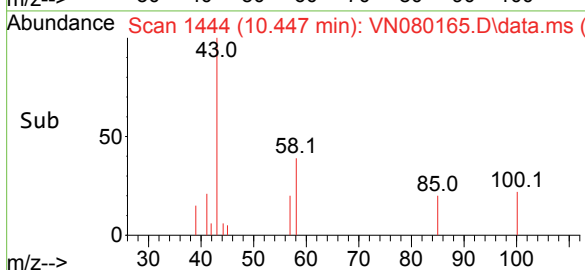
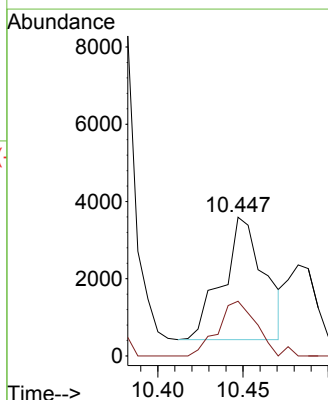
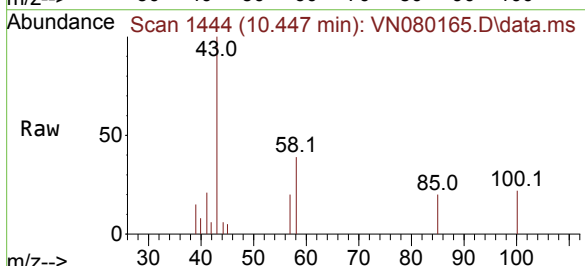
Acq: 17 Nov 2023 16:05

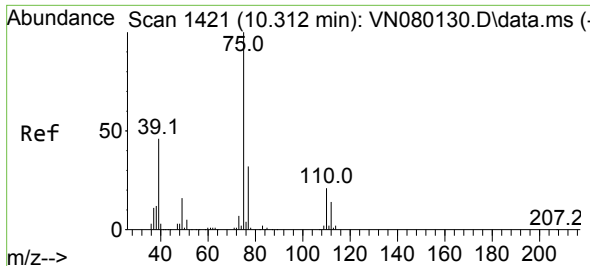
Tgt Ion: 43 Resp: 5379

Ion Ratio Lower Upper

43 100

58 42.3 36.6 54.8

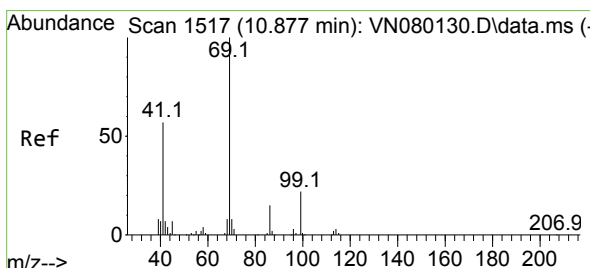
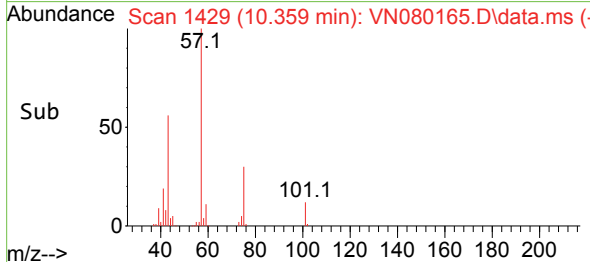
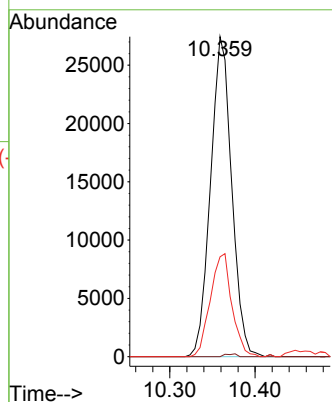
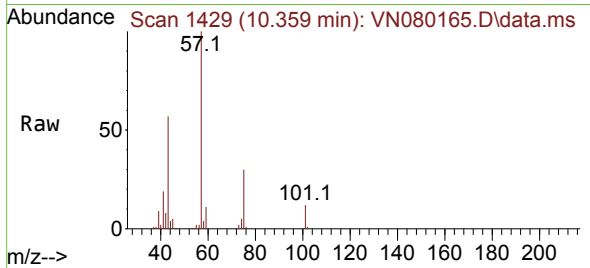




#54
 cis-1,3-Dichloropropene
 Concen: 11.683 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080165.D
 Acq: 17 Nov 2023 16:05

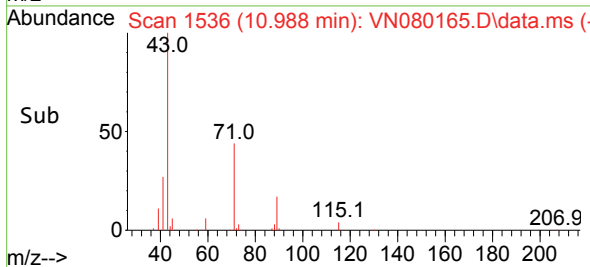
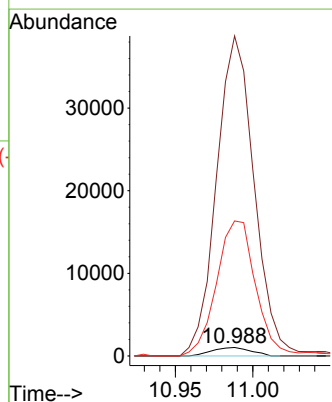
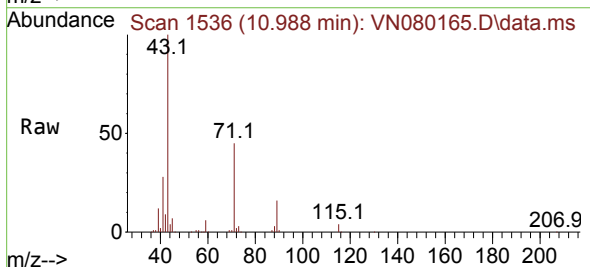
Instrument :
 MSVOA_N
 ClientSampleId :

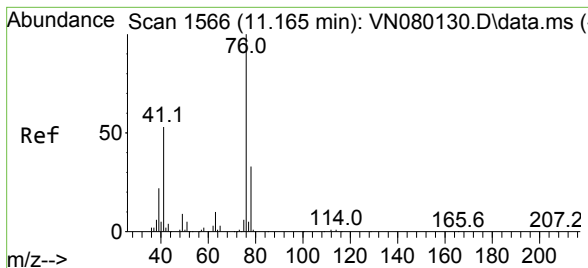
Tgt Ion: 75 Resp: 47393
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 31.2 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.737 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN080165.D
 Acq: 17 Nov 2023 16:05

Tgt Ion: 69 Resp: 1797
 Ion Ratio Lower Upper
 69 100
 41 3660.9 39.6 59.4#
 39 1615.8 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.678 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

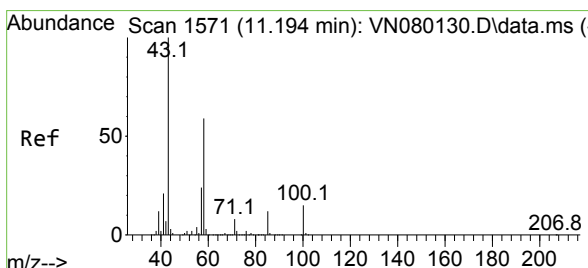
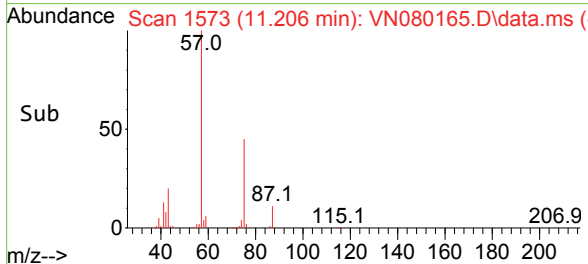
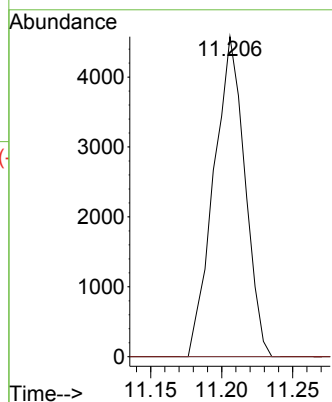
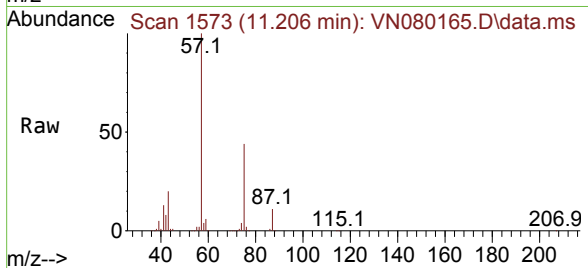
ClientSampleId :

Tgt Ion: 76 Resp: 6987

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 31.451 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN080165.D

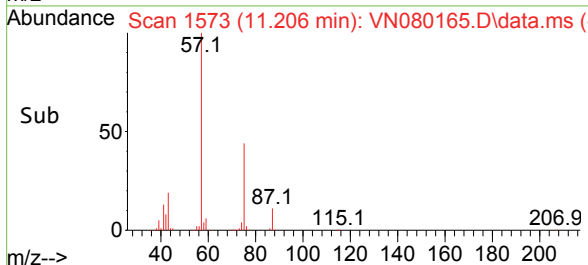
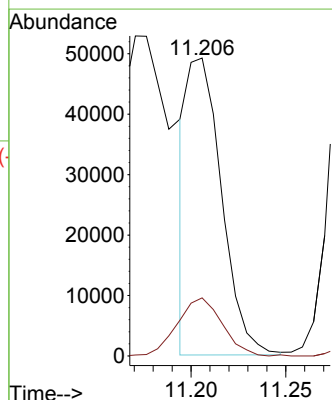
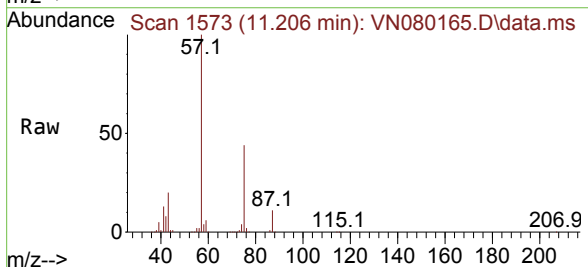
Acq: 17 Nov 2023 16:05

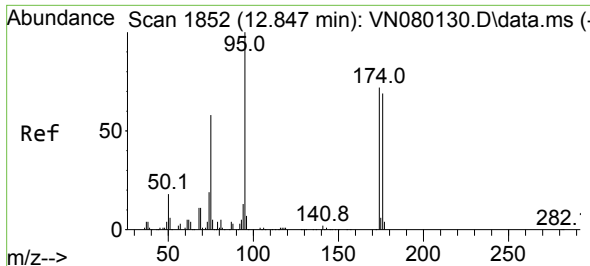
Tgt Ion: 43 Resp: 62059

Ion Ratio Lower Upper

43 100

58 25.6 31.7 95.1#

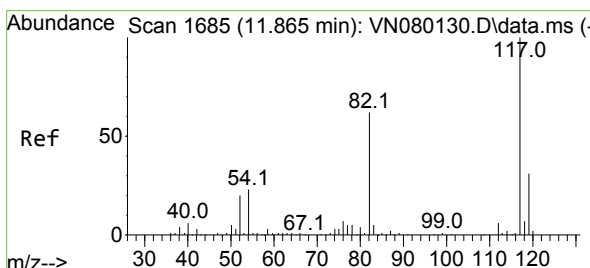
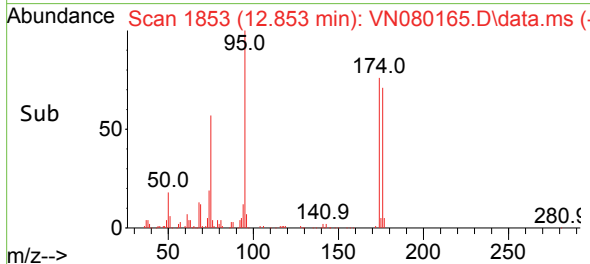
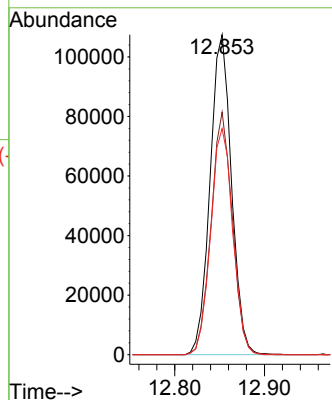
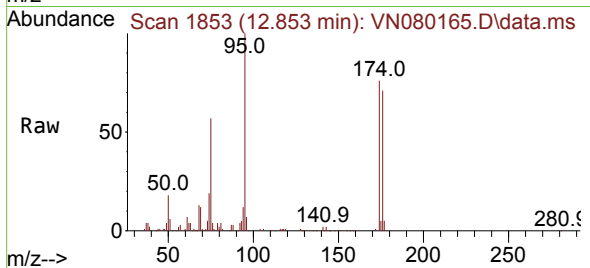




#62
4-Bromofluorobenzene
Concen: 53.942 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

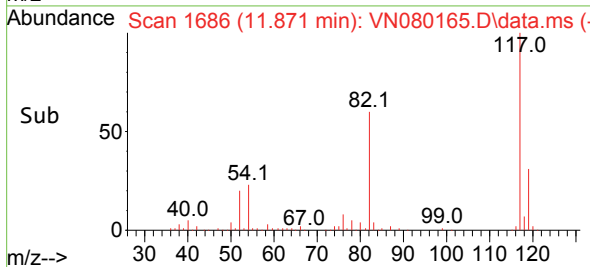
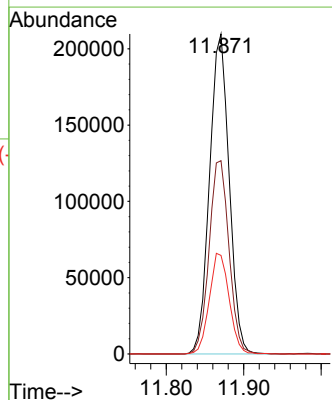
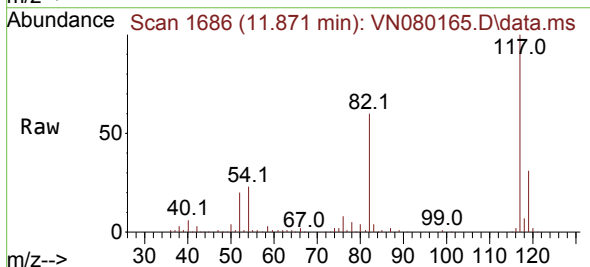
Instrument :
MSVOA_N
ClientSampleId :

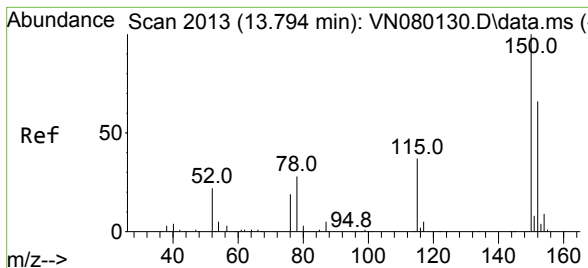
Tgt Ion: 95 Resp: 178258
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 72.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion: 117 Resp: 368372
Ion Ratio Lower Upper
117 100
82 60.4 44.0 66.0
119 30.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :

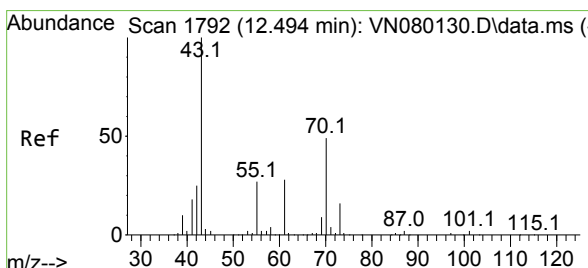
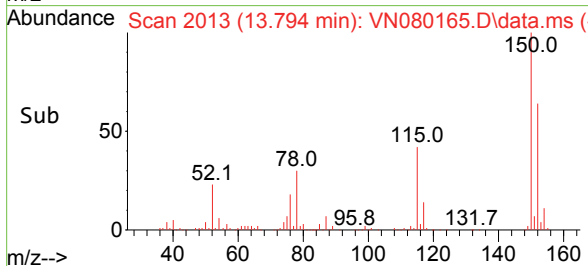
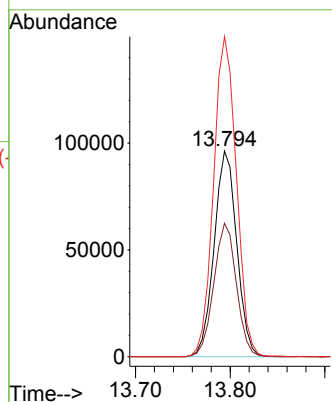
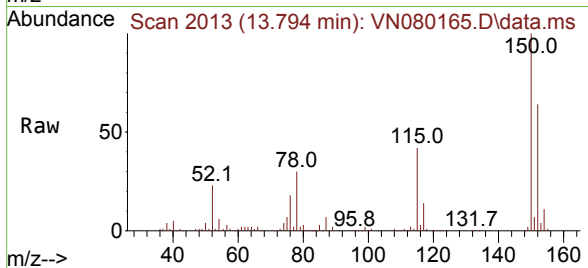
Tgt Ion:152 Resp: 159786

Ion Ratio Lower Upper

152 100

115 64.8 32.3 96.8

150 157.0 0.0 355.8



#74

N-ethyl acetate

Concen: 5.619 ug/l

RT: 12.306 min Scan# 1760

Delta R.T. -0.188 min

Lab File: VN080165.D

Acq: 17 Nov 2023 16:05

Tgt Ion: 43 Resp: 21759

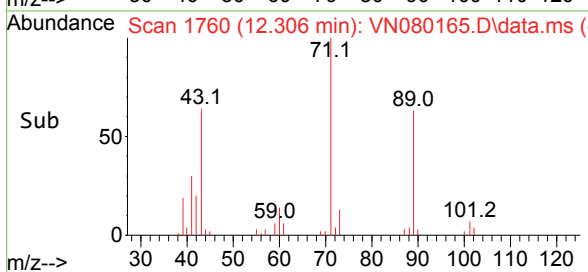
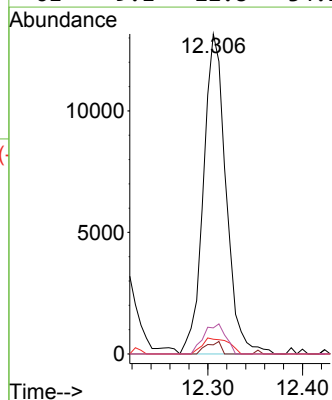
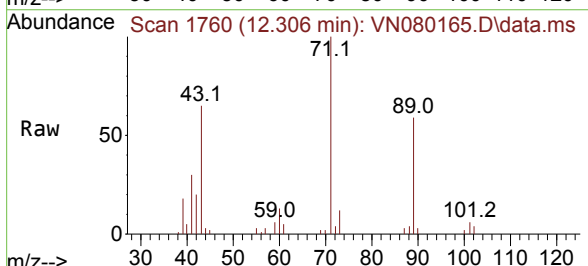
Ion Ratio Lower Upper

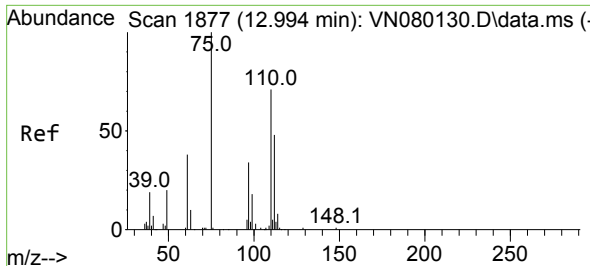
43 100

70 2.5 43.4 65.2#

55 5.8 21.4 32.0#

61 9.1 22.8 34.2#

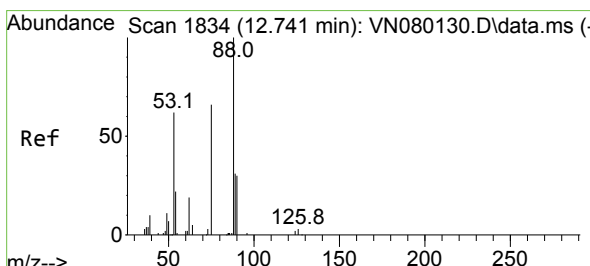
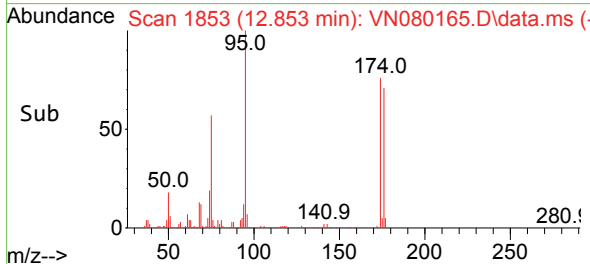
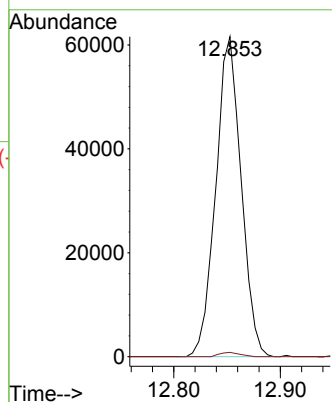
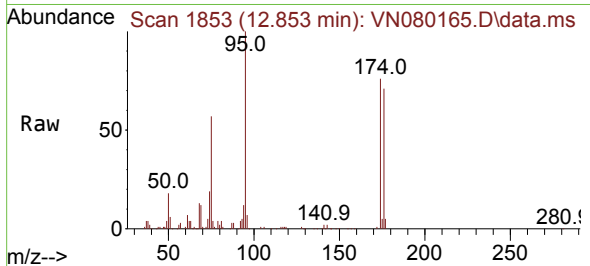




#76
1,2,3-Trichloropropane
Concen: 25.992 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 101759
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.816 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080165.D
Acq: 17 Nov 2023 16:05

Tgt Ion: 75 Resp: 101759
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

