

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120423\
 Data File : VN080337.D
 Acq On : 04 Dec 2023 14:46
 Operator : JC\MD
 Sample : PB157524ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 04:16:10 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

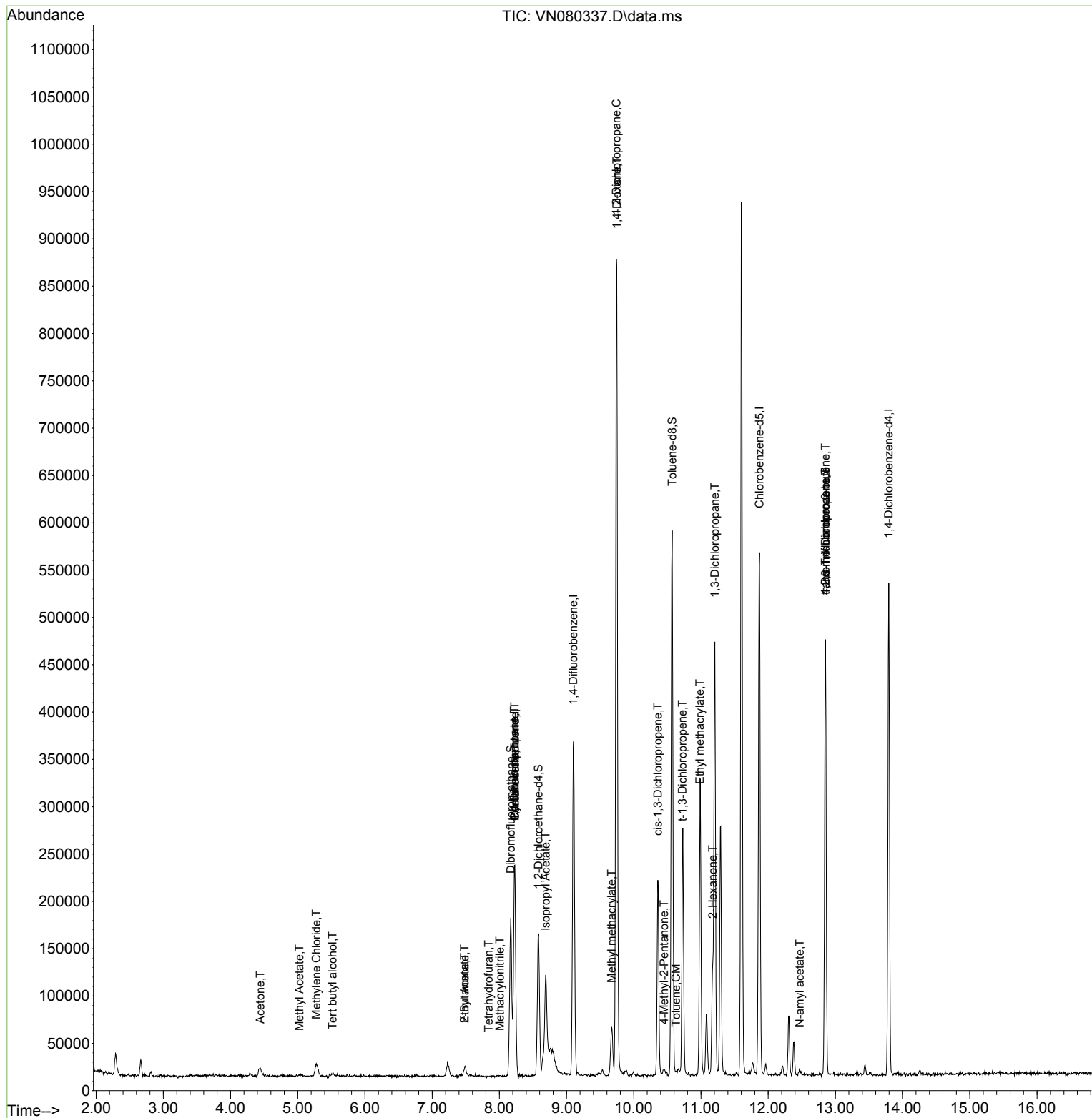
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	155830	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293828	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	318382	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	133796	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	141775	55.101	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.200%	
35) Dibromofluoromethane	8.171	113	110864	51.135	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.280%	
50) Toluene-d8	10.570	98	396874	50.781	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.560%	
62) 4-Bromofluorobenzene	12.853	95	154667	52.394	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.780%	
Target Compounds						Qvalue
6) Chloroethane	3.130	64	291	Below Cal	#	43
11) Tert butyl alcohol	5.518	59	4296	15.183	ug/l #	76
16) Acetone	4.441	43	16813	19.455	ug/l	98
18) Methyl Acetate	5.024	43	1419	0.511	ug/l	91
20) Methylene Chloride	5.277	84	11905	6.578	ug/l	92
25) 2-Butanone	7.482	43	15904	15.489	ug/l	94
29) Tetrahydrofuran	7.841	42	419	0.760	ug/l #	20
31) Cyclohexane	8.229	56	3341	1.194	ug/l #	26
36) 1,1-Dichloropropene	8.224	75	13626	4.341	ug/l #	48
37) Ethyl Acetate	7.482	43	15904	7.305	ug/l #	63
38) Carbon Tetrachloride	8.229	117	18142	4.554	ug/l #	17
41) Methacrylonitrile	8.006	41	298	0.249	ug/l #	15
43) Isopropyl Acetate	8.688	43	140806	33.233	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	1179	0.569	ug/l #	45
48) Methyl methacrylate	9.671	41	4161	1.906	ug/l #	31
49) 1,4-Dioxane	9.747	88	55	1.514	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	6568	2.994	ug/l #	73
52) Toluene	10.629	92	1552	0.278	ug/l	98
53) t-1,3-Dichloropropene	10.723	75	890	0.251	ug/l #	1
54) cis-1,3-Dichloropropene	10.359	75	39469	10.892	ug/l #	72
56) Ethyl methacrylate	10.982	69	1810	0.831	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4874	1.310	ug/l #	42
59) 2-Hexanone	11.176	43	78061	44.286	ug/l #	19
74) N-amyl acetate	12.470	43	3919	1.209	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	89113	27.183	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	89113	91.841	ug/l #	15

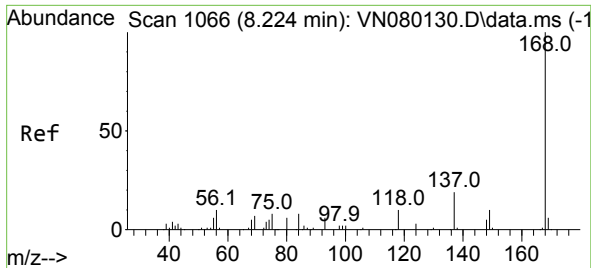
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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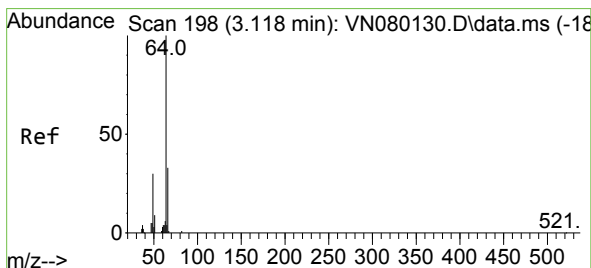
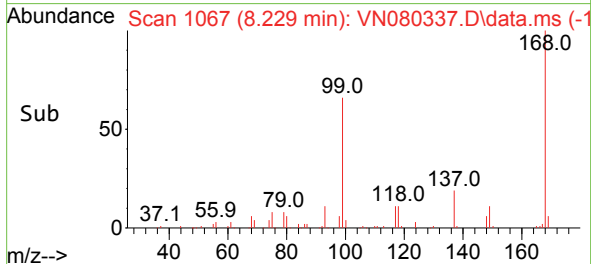
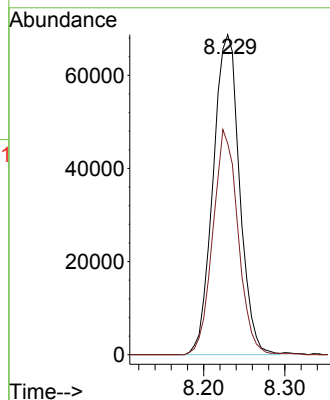
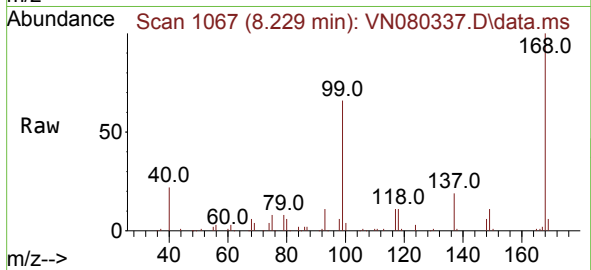




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

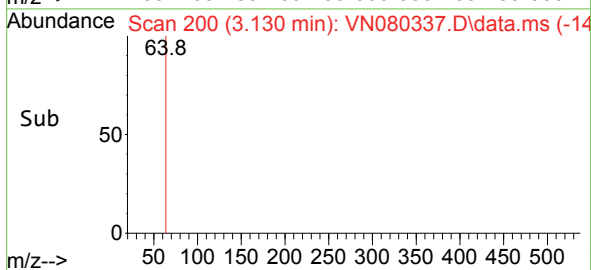
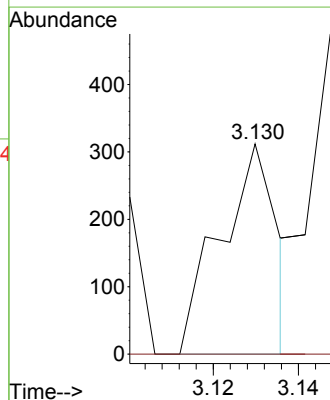
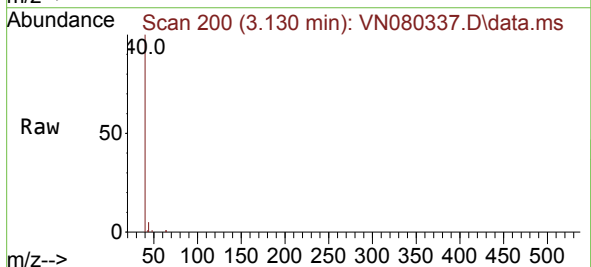
Instrument :
MSVOA_N
ClientSampleId :

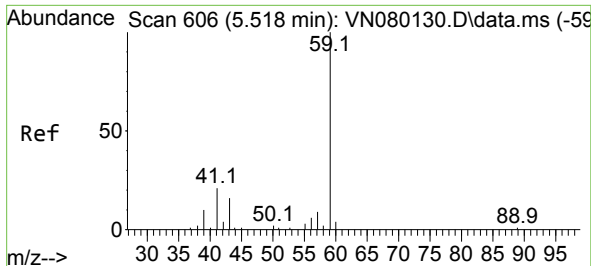
Tgt Ion:168 Resp: 155830
Ion Ratio Lower Upper
168 100
99 65.9 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 64 Resp: 291
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

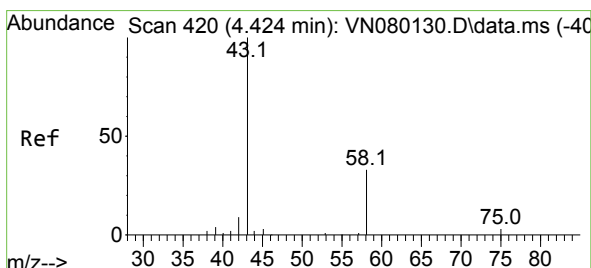
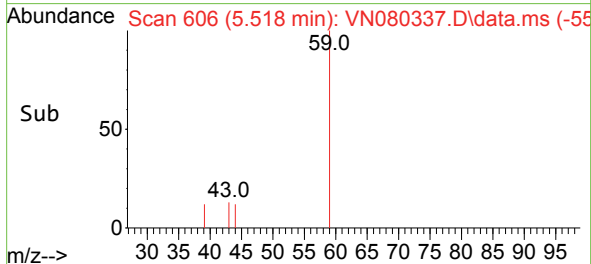
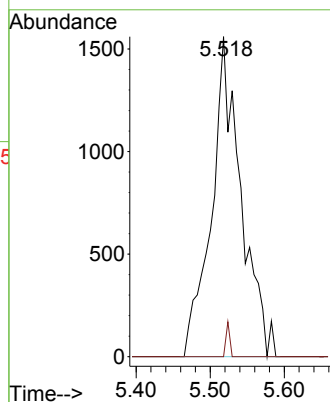
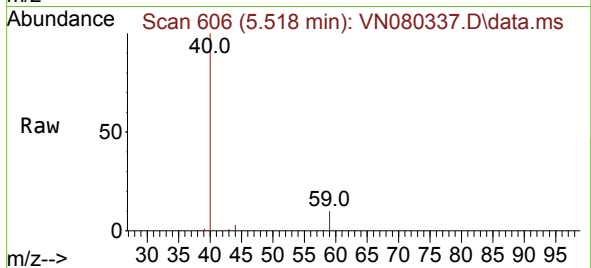




#11
Tert butyl alcohol
Concen: 15.183 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

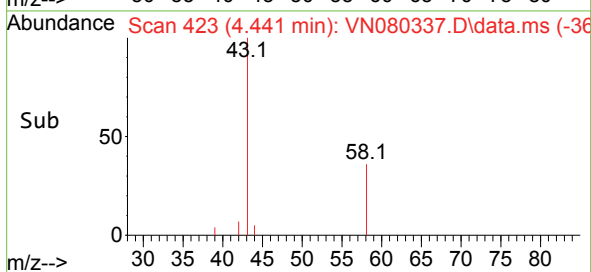
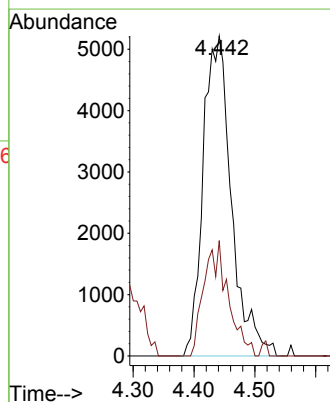
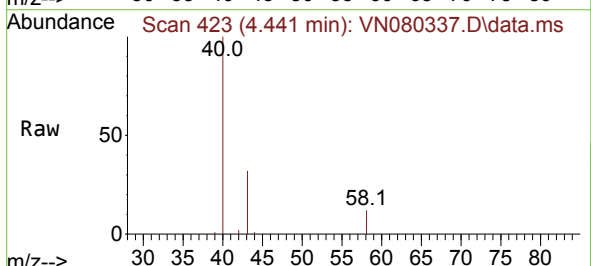
Instrument :
MSVOA_N
ClientSampleId :

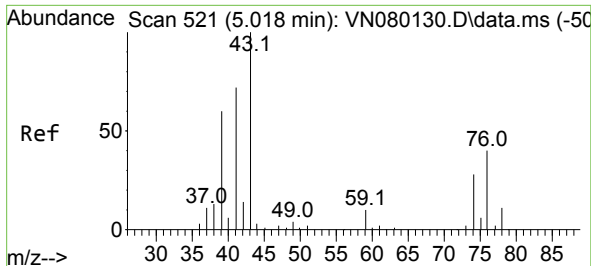
Tgt Ion: 59 Resp: 4296
Ion Ratio Lower Upper
59 100
57 1.4 8.2 12.4#



#16
Acetone
Concen: 19.455 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.017 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 43 Resp: 16813
Ion Ratio Lower Upper
43 100
58 36.0 28.0 42.0

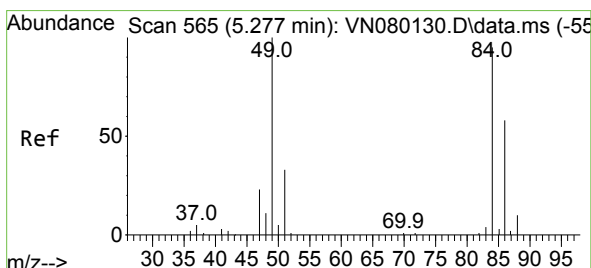
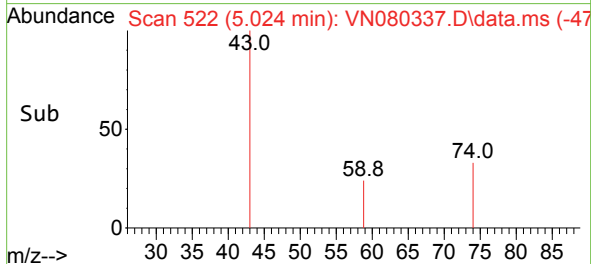
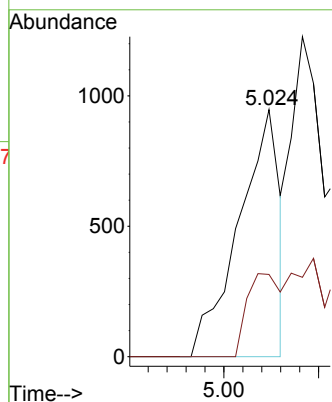
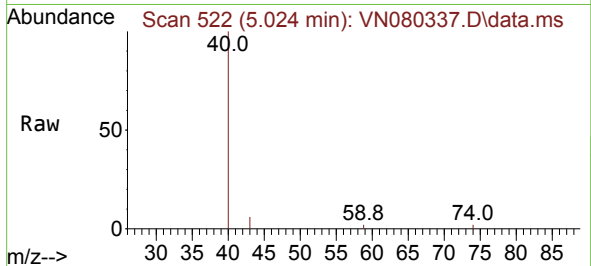




#18
Methyl Acetate
Concen: 0.511 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

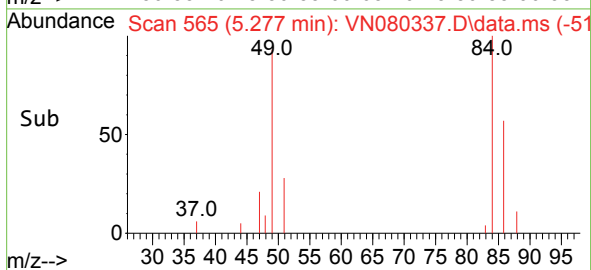
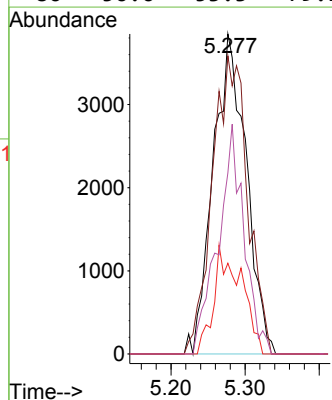
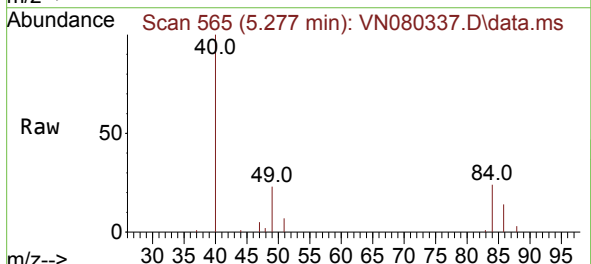
Instrument :
MSVOA_N
ClientSampleId :

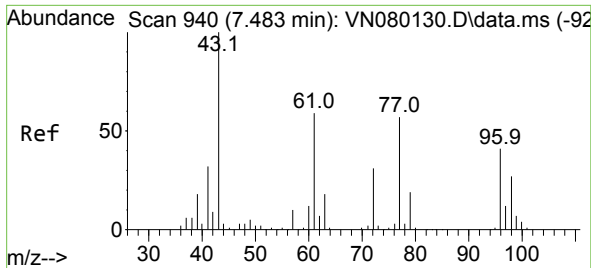
Tgt Ion: 43 Resp: 1419
Ion Ratio Lower Upper
43 100
74 27.5 26.2 39.4



#20
Methylene Chloride
Concen: 6.578 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 84 Resp: 11905
Ion Ratio Lower Upper
84 100
49 93.1 79.7 119.5
51 28.3 25.2 37.8
86 56.6 53.3 79.9

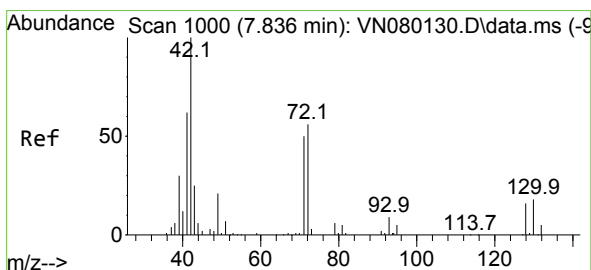
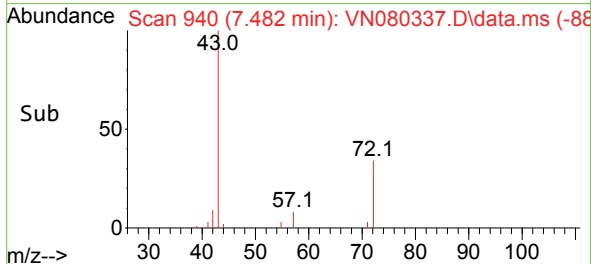
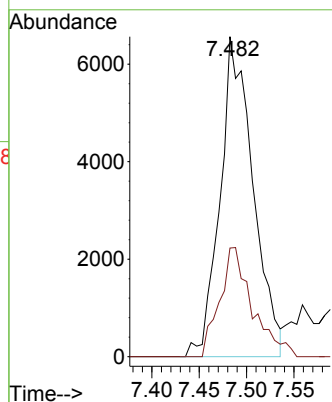
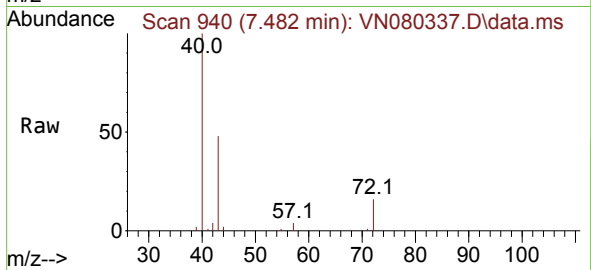




#25
2-Butanone
Concen: 15.489 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

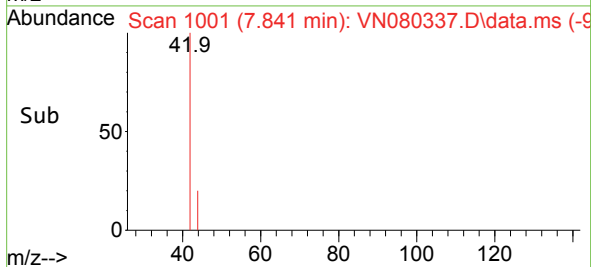
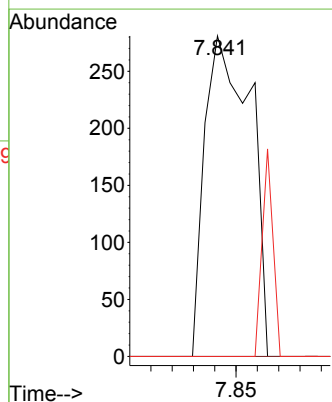
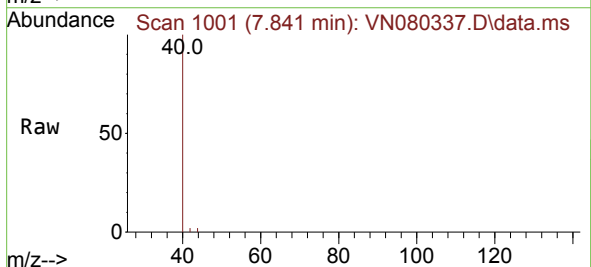
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ClientSampleId :

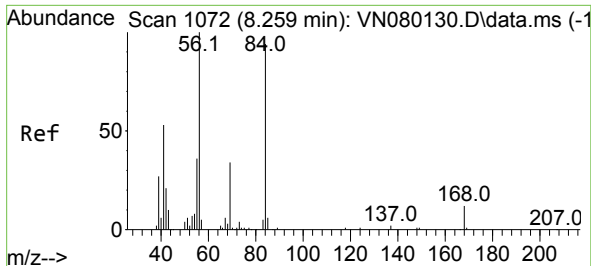
Tgt Ion: 43 Resp: 15904
Ion Ratio Lower Upper
43 100
72 33.9 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.760 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

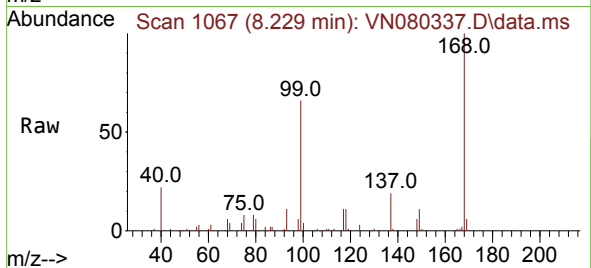
Tgt Ion: 42 Resp: 419
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



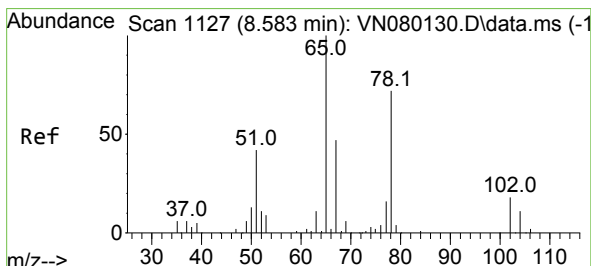
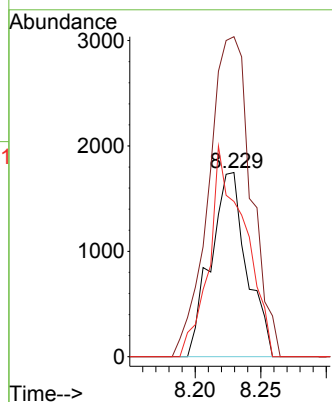
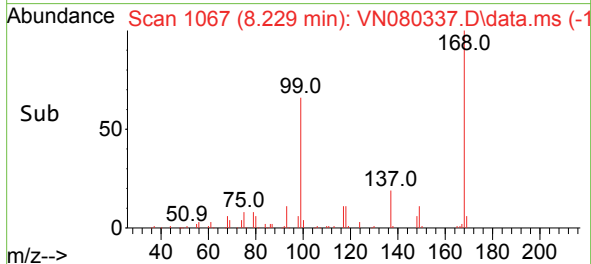


#31
Cyclohexane
Concen: 1.194 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Instrument :
MSVOA_N
ClientSampleId :

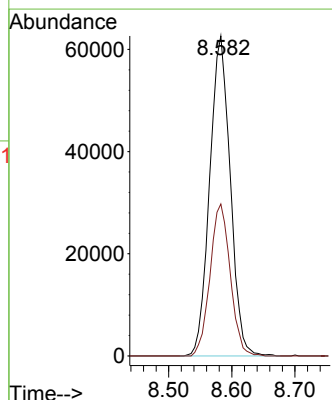
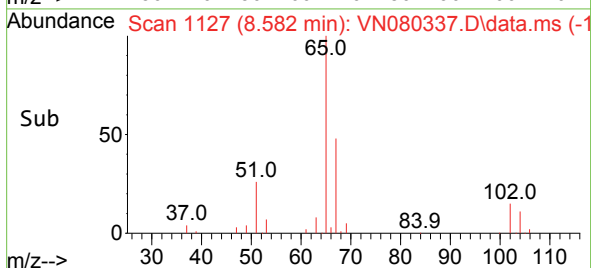
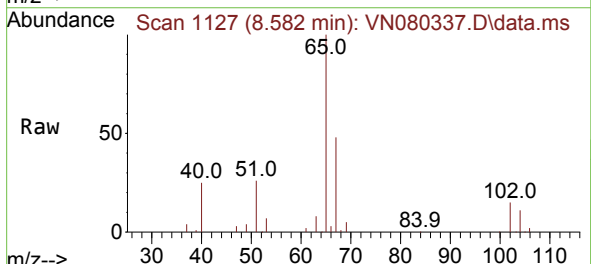


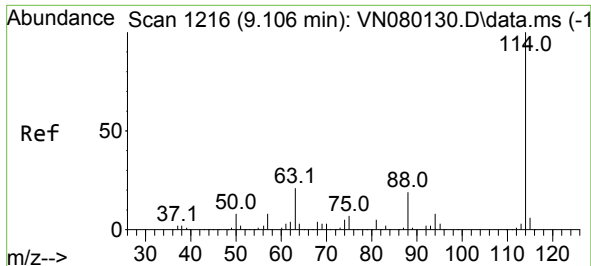
Tgt Ion: 56 Resp: 3341
Ion Ratio Lower Upper
56 100
69 173.7 26.8 40.2#
84 84.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 55.101 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 65 Resp: 141775
Ion Ratio Lower Upper
65 100
67 46.7 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: VN080337.D

Acq: 04 Dec 2023 14:46

Instrument :

MSVOA_N

ClientSampleId :

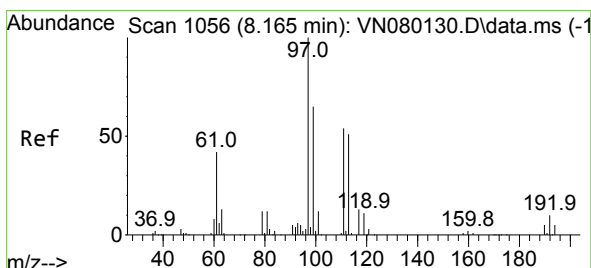
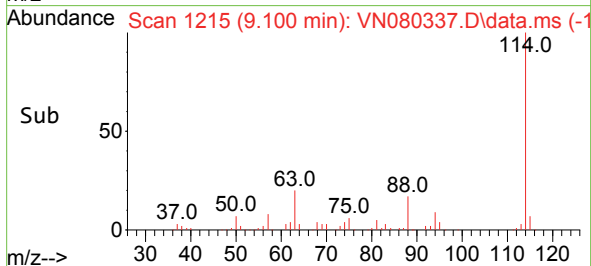
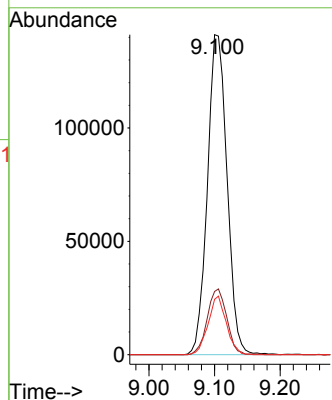
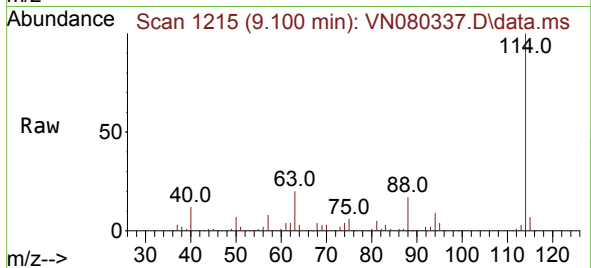
Tgt Ion:114 Resp: 293828

Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.4

88 17.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.135 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

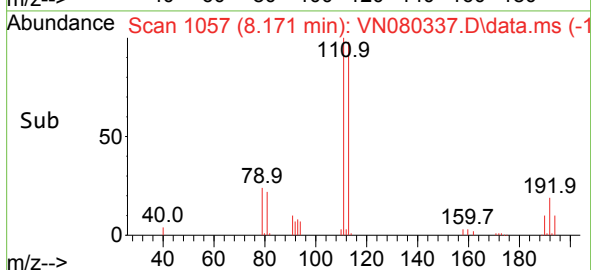
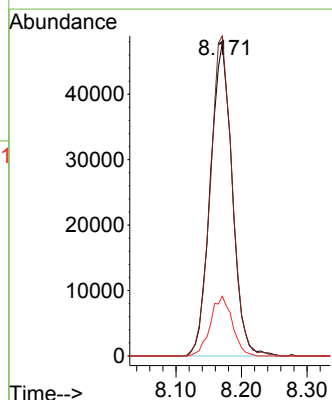
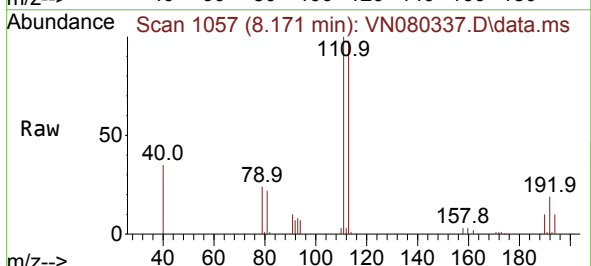
Tgt Ion:113 Resp: 110864

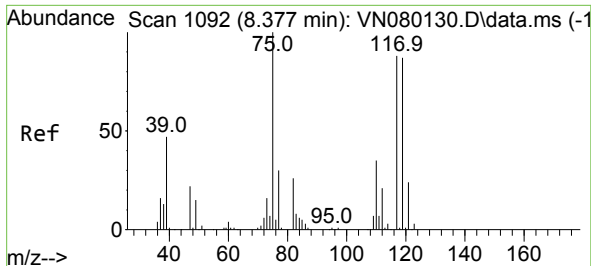
Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 19.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.341 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.153 min

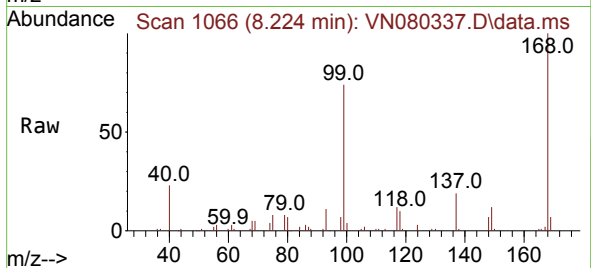
Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

Instrument :

MSVOA_N

ClientSampleId :



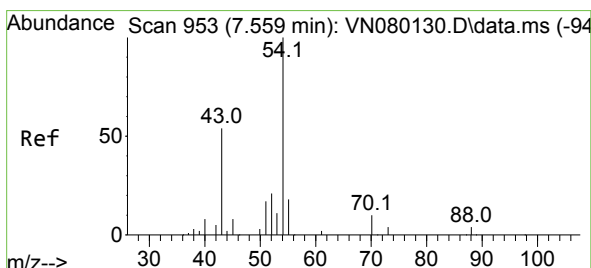
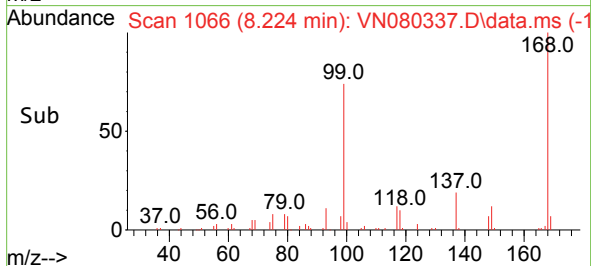
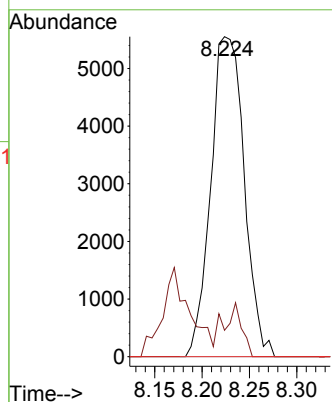
Tgt Ion: 75 Resp: 13626

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 7.305 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.077 min

Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

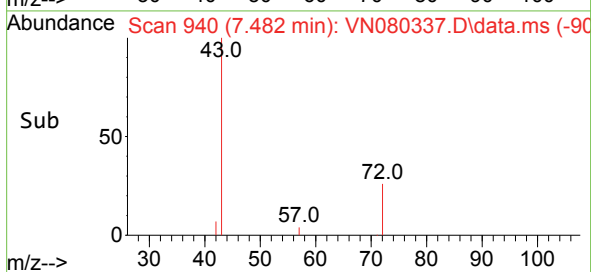
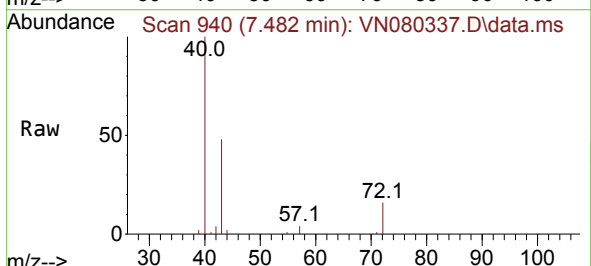
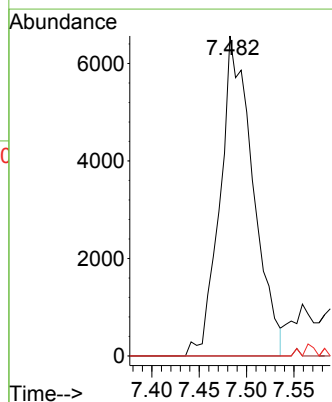
Tgt Ion: 43 Resp: 15904

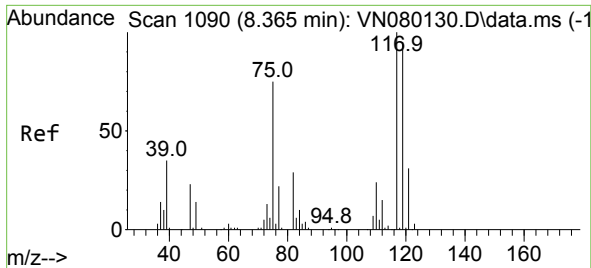
Ion Ratio Lower Upper

43 100

61 0.0 13.2 19.8#

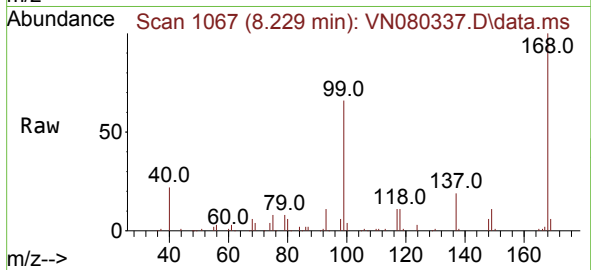
70 0.0 11.3 16.9#



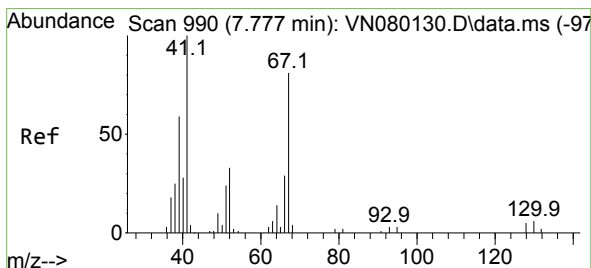
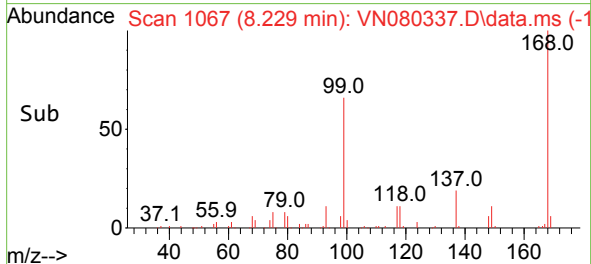
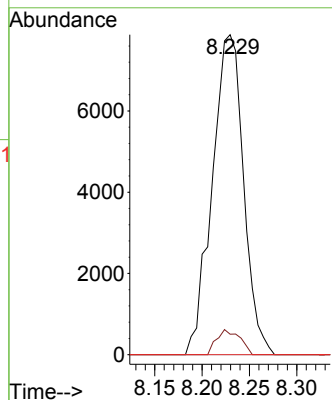


#38
Carbon Tetrachloride
Concen: 4.554 ug/l
RT: 8.229 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Instrument :
MSVOA_N
ClientSampleId :

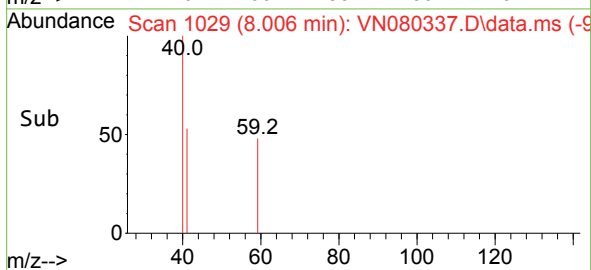
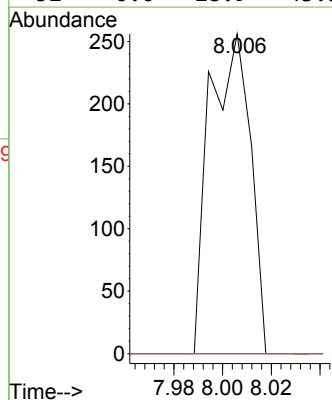
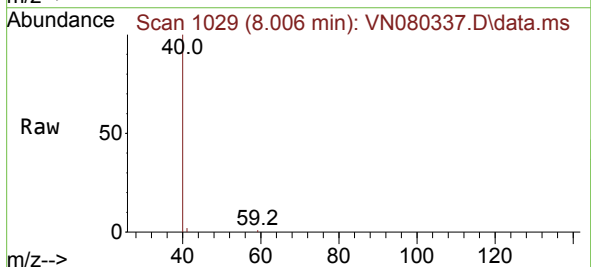


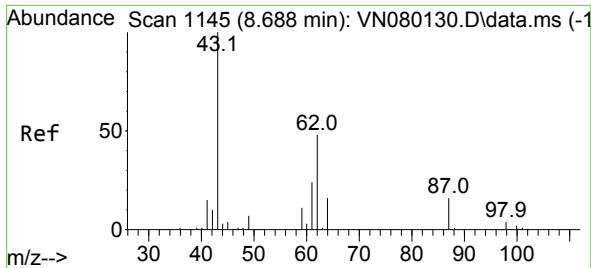
Tgt Ion:117 Resp: 18142
Ion Ratio Lower Upper
117 100
119 6.4 77.3 115.9#
121 0.0 23.3 34.9#



#41
Methacrylonitrile
Concen: 0.249 ug/l
RT: 8.006 min Scan# 1029
Delta R.T. 0.229 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 41 Resp: 298
Ion Ratio Lower Upper
41 100
39 0.0 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#

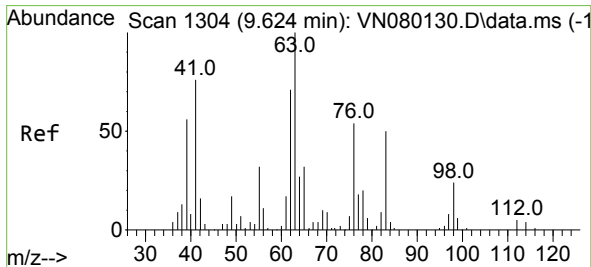
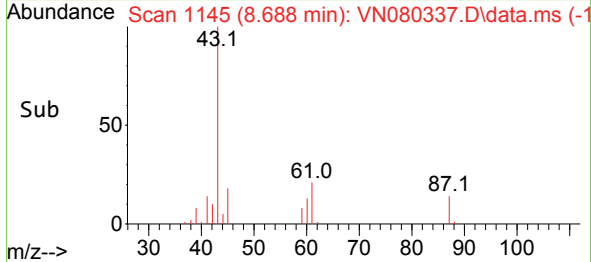
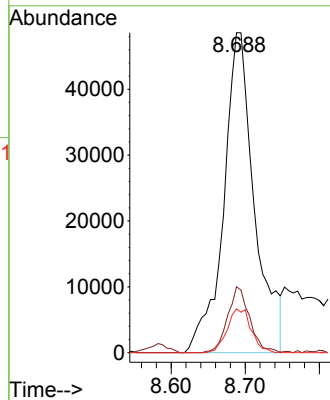
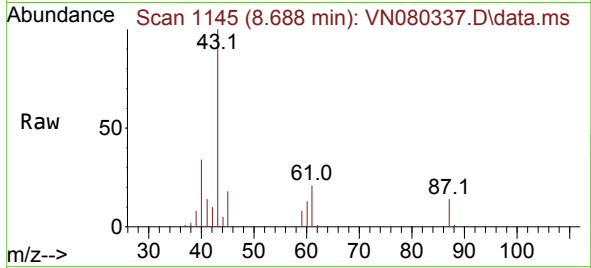




#43
Isopropyl Acetate
Concen: 33.233 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

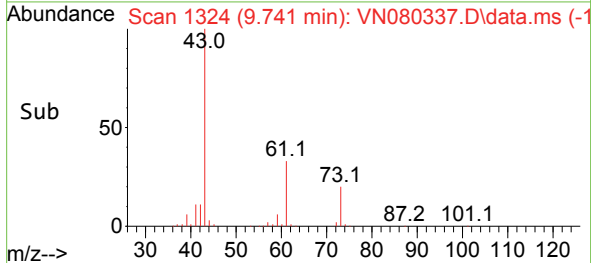
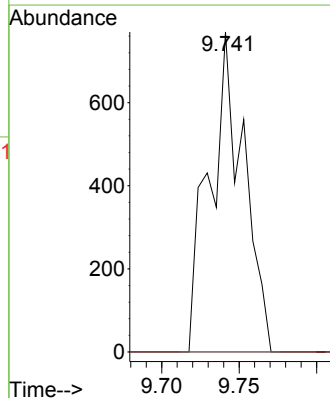
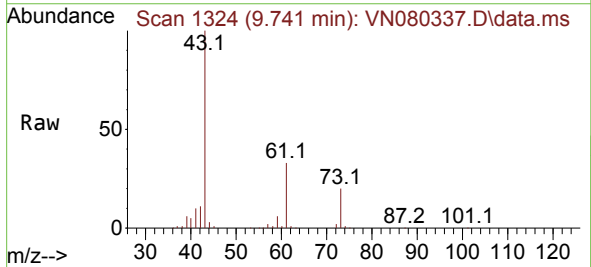
Instrument :
MSVOA_N
ClientSampleId :

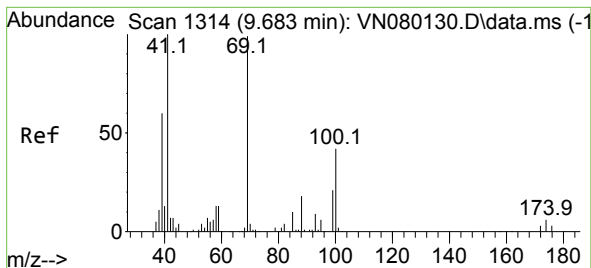
Tgt Ion: 43 Resp: 140806
Ion Ratio Lower Upper
43 100
61 14.7 24.7 37.1#
87 10.6 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.569 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.117 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 63 Resp: 1179
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.906 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.012 min

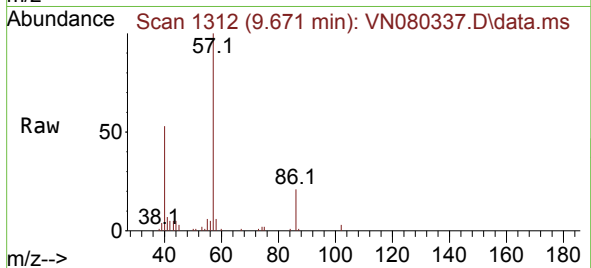
Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

Instrument :

MSVOA_N

ClientSampleId :



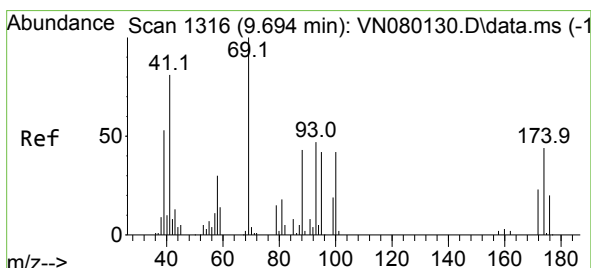
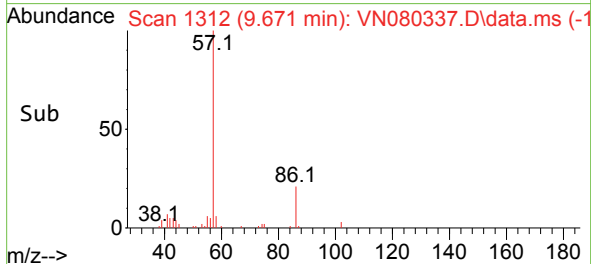
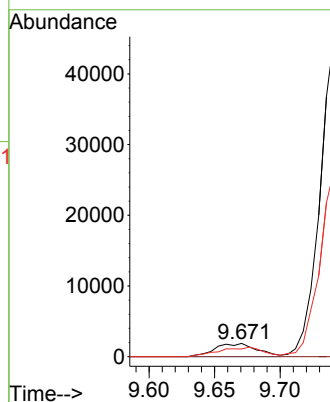
Tgt Ion: 41 Resp: 4161

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 75.1 54.6 81.8



#49

1,4-Dioxane

Concen: 1.514 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.053 min

Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

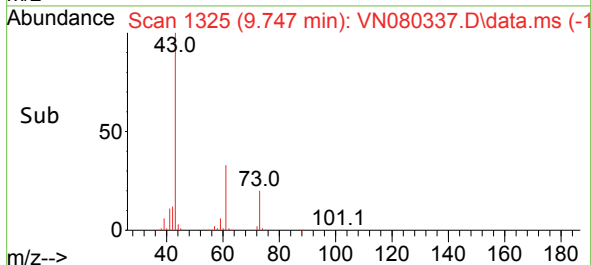
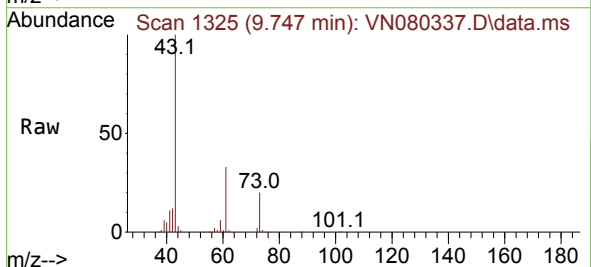
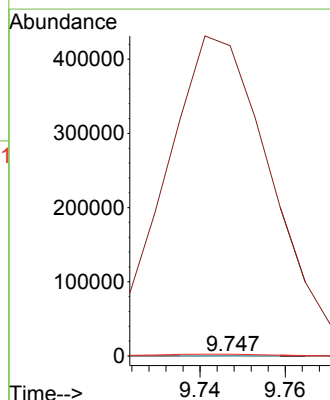
Tgt Ion: 88 Resp: 55

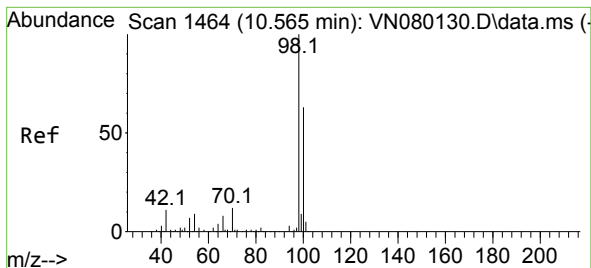
Ion Ratio Lower Upper

88 100

43 1404930.9 17.0 25.6#

58 8661.8 47.0 70.4#

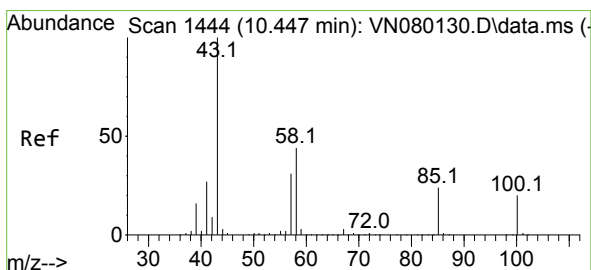
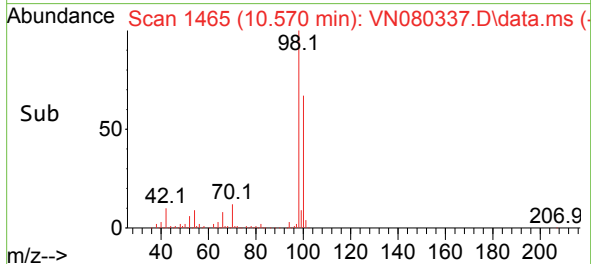
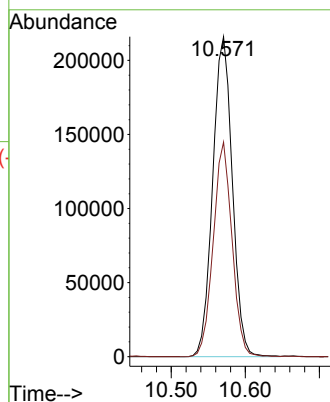
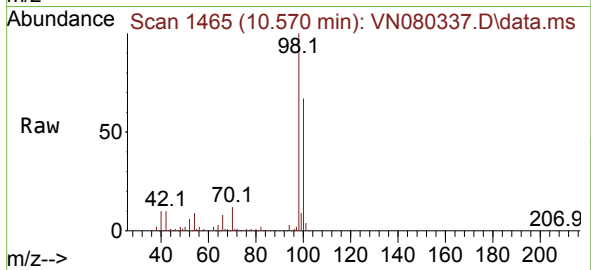




#50
Toluene-d8
Concen: 50.781 ug/l
RT: 10.570 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

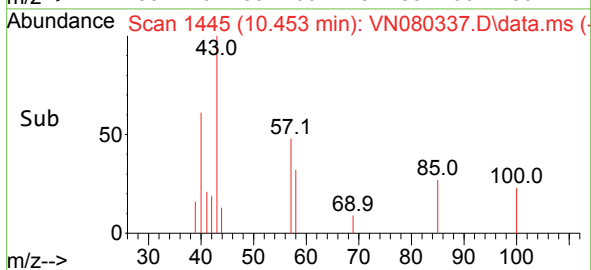
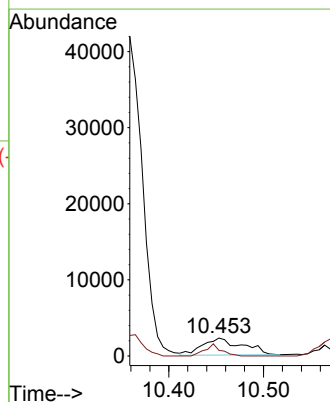
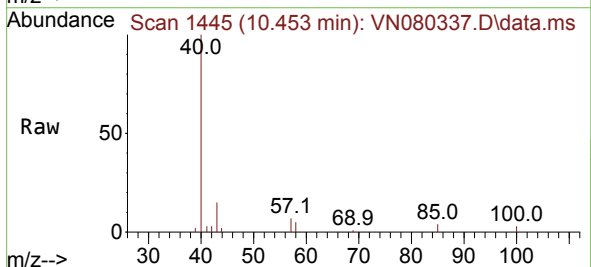
Instrument :
MSVOA_N
ClientSampleId :

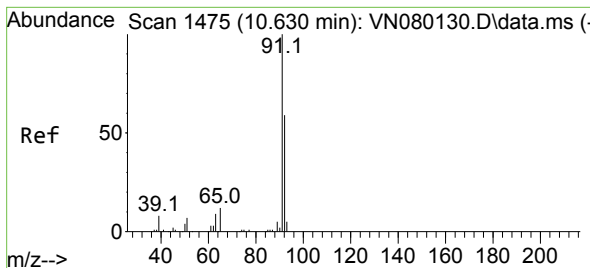
Tgt Ion: 98 Resp: 396874
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.994 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 43 Resp: 6568
Ion Ratio Lower Upper
43 100
58 28.0 36.6 54.8#





#52

Toluene

Concen: 0.278 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN080337.D

Acq: 04 Dec 2023 14:46

Instrument :

MSVOA_N

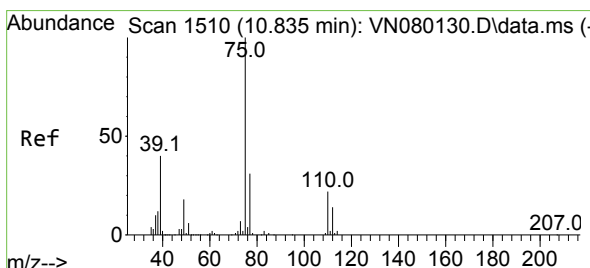
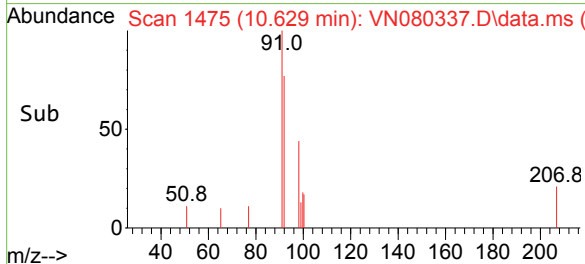
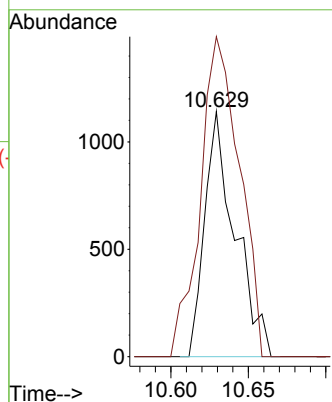
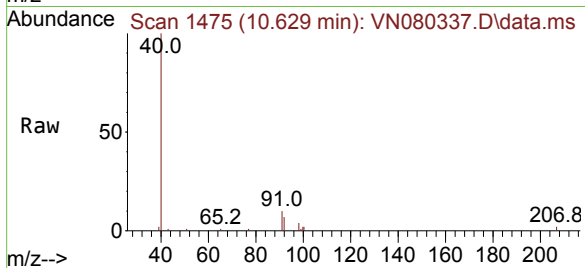
ClientSampleId :

Tgt Ion: 92 Resp: 1552

Ion Ratio Lower Upper

92 100

91 168.5 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 0.251 ug/l

RT: 10.723 min Scan# 1491

Delta R.T. -0.112 min

Lab File: VN080337.D

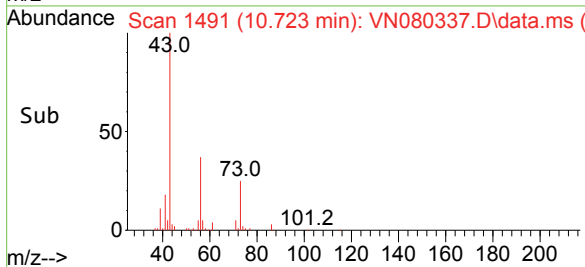
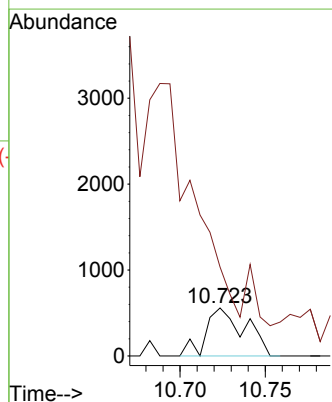
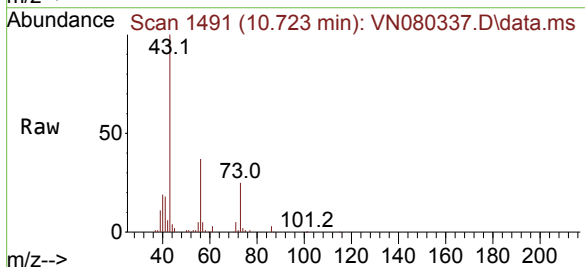
Acq: 04 Dec 2023 14:46

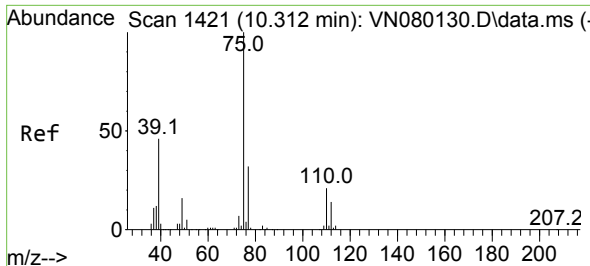
Tgt Ion: 75 Resp: 890

Ion Ratio Lower Upper

75 100

77 114.9 25.4 38.0#

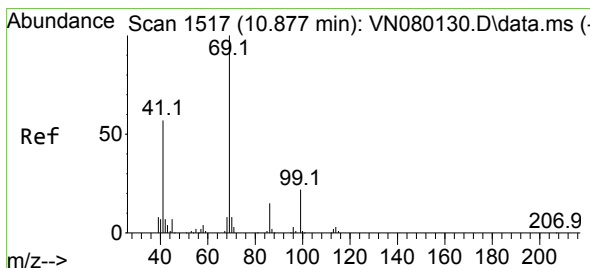
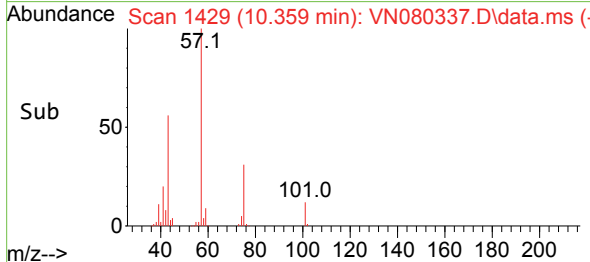
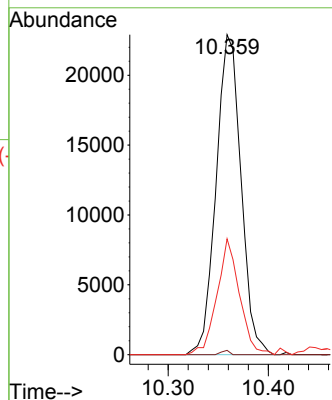
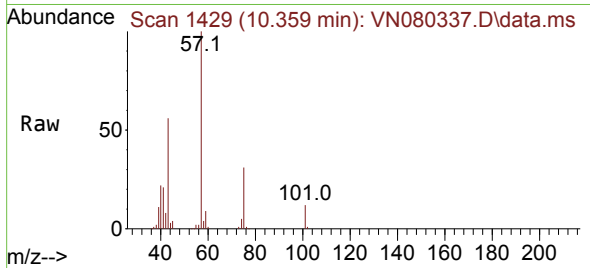




#54
cis-1,3-Dichloropropene
Concen: 10.892 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

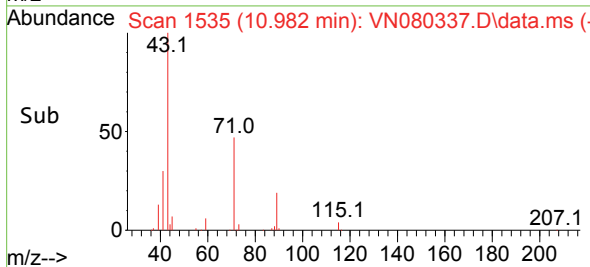
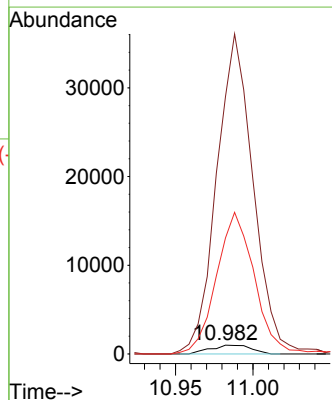
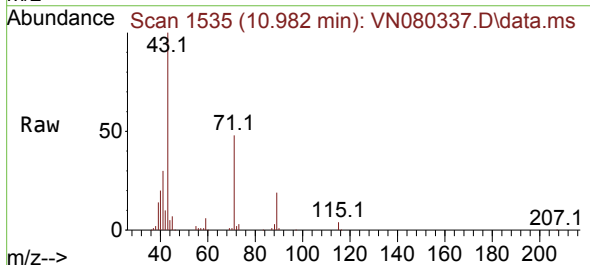
Instrument :
MSVOA_N
ClientSampleId :

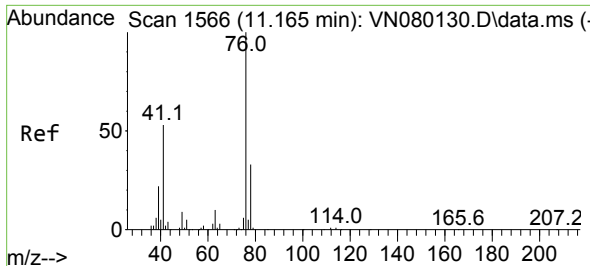
Tgt Ion: 75 Resp: 39469
Ion Ratio Lower Upper
75 100
77 1.4 26.1 39.1#
39 36.2 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.831 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 69 Resp: 1810
Ion Ratio Lower Upper
69 100
41 3280.2 39.6 59.4#
39 1506.2 28.6 43.0#

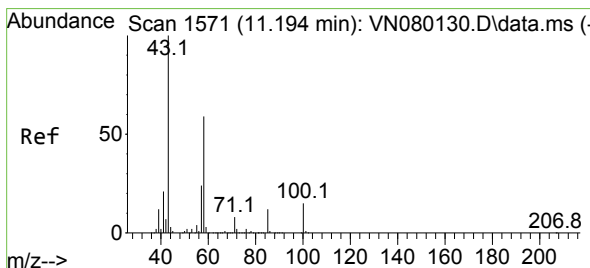
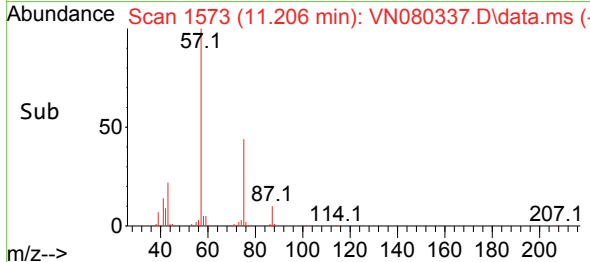
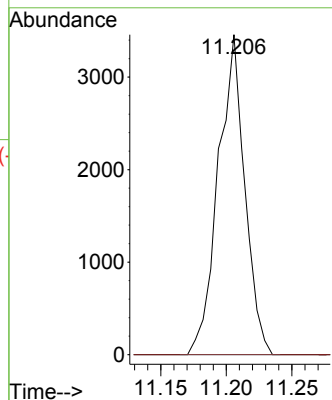
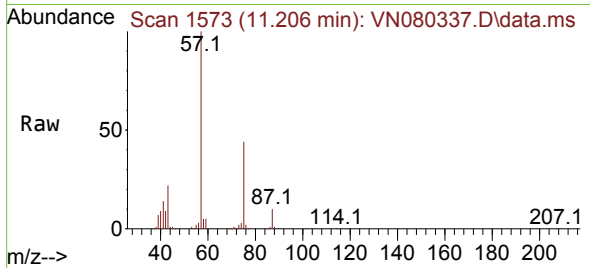




#57
1,3-Dichloropropane
Concen: 1.310 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

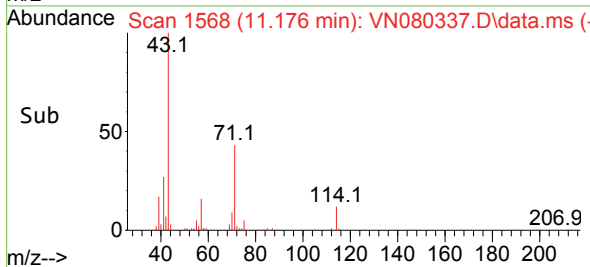
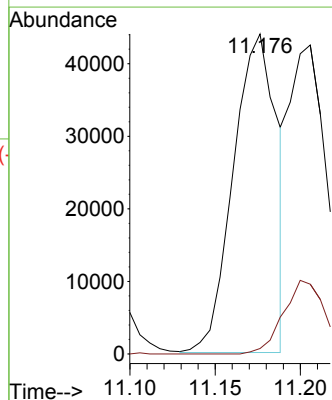
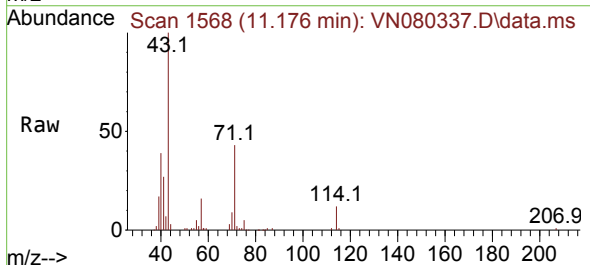
Instrument :
MSVOA_N
ClientSampleId :

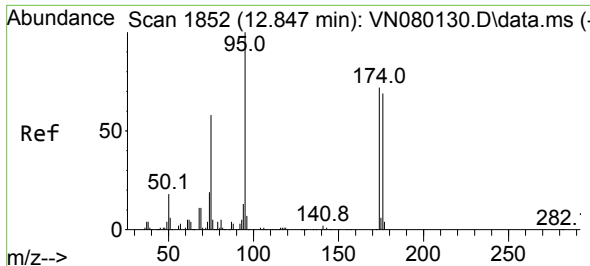
Tgt Ion: 76 Resp: 4874
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 44.286 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.018 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 43 Resp: 78061
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

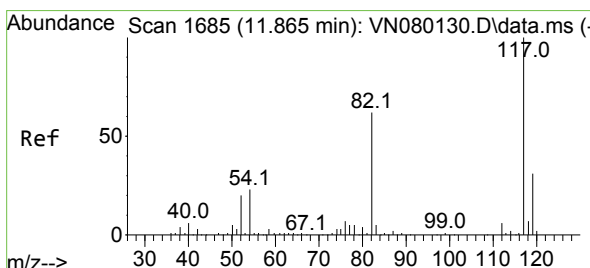
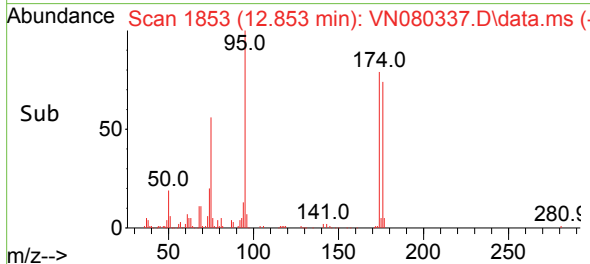
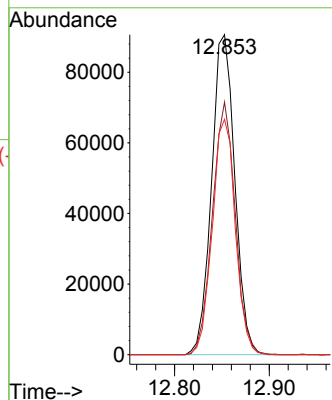
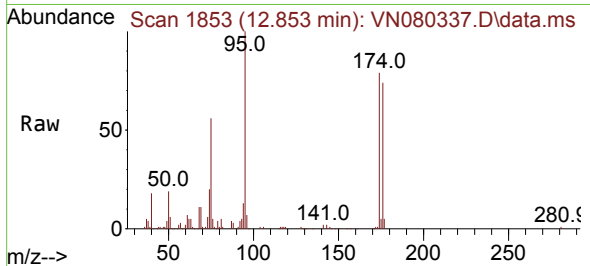




#62
4-Bromofluorobenzene
Concen: 52.394 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

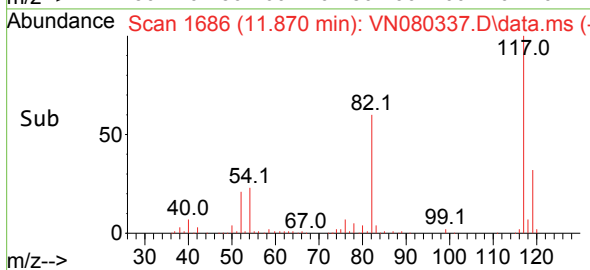
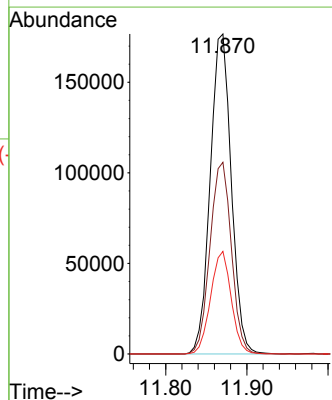
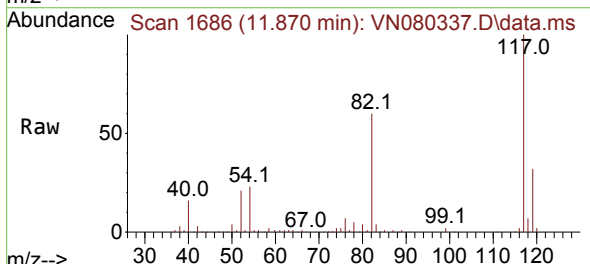
Instrument :
MSVOA_N
ClientSampleId :

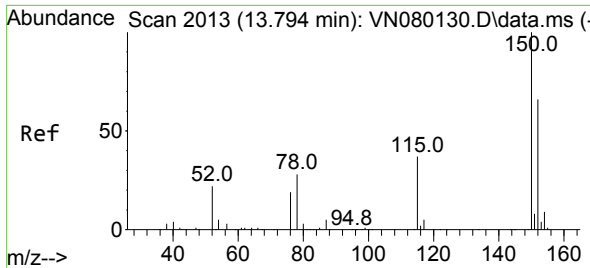
Tgt Ion: 95 Resp: 154667
Ion Ratio Lower Upper
95 100
174 77.4 0.0 143.8
176 72.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 117 Resp: 318382
Ion Ratio Lower Upper
117 100
82 59.9 44.0 66.0
119 32.0 25.6 38.4

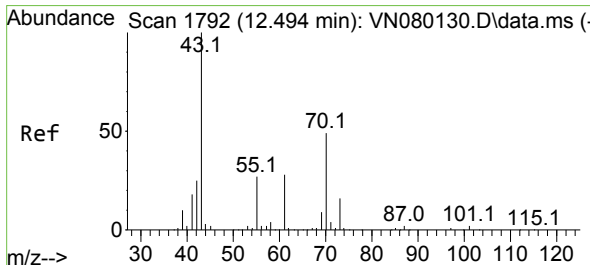
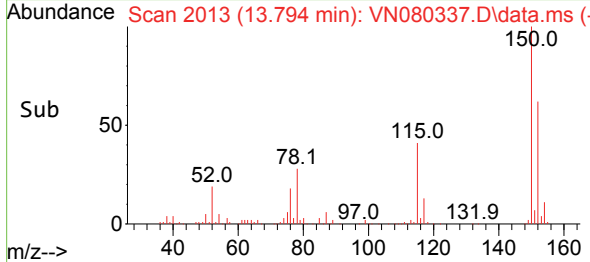
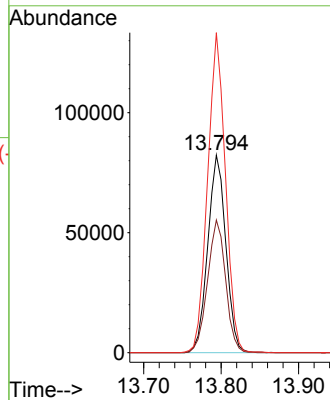
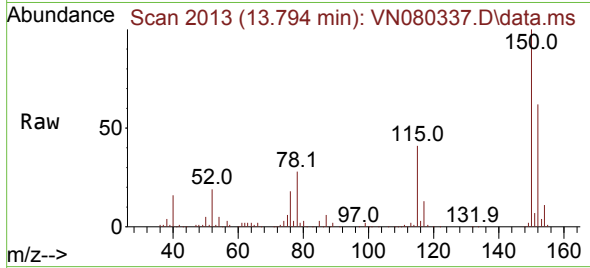




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

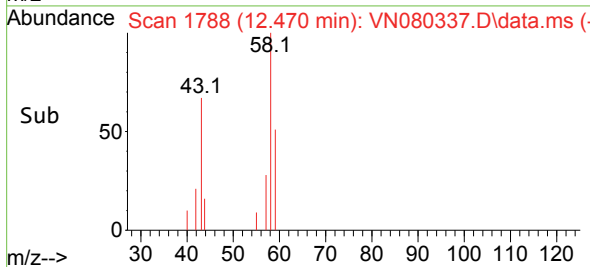
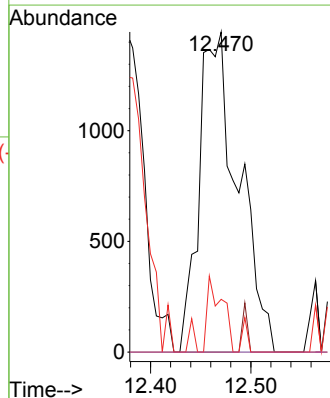
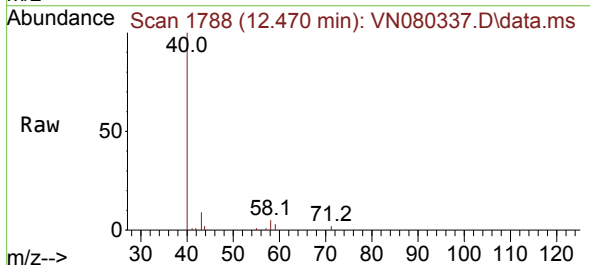
Instrument :
MSVOA_N
ClientSampleId :

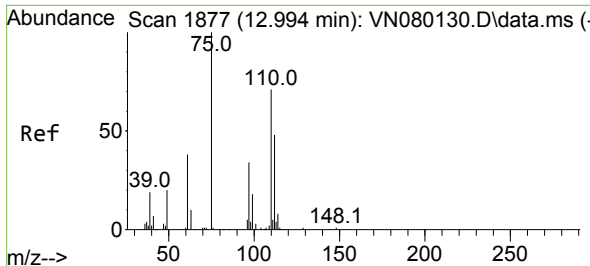
Tgt Ion:152 Resp: 133796
Ion Ratio Lower Upper
152 100
115 67.0 32.3 96.8
150 159.1 0.0 355.8



#74
N-ethyl acetate
Concen: 1.209 ug/l
RT: 12.470 min Scan# 1788
Delta R.T. -0.024 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 43 Resp: 3919
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 9.1 21.4 32.0#
61 0.0 22.8 34.2#

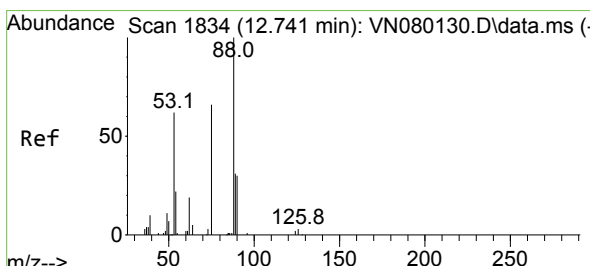
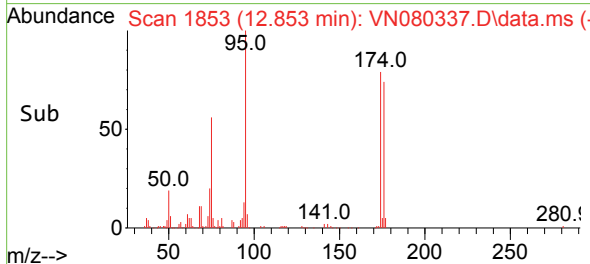
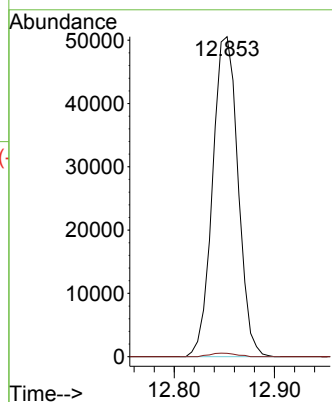
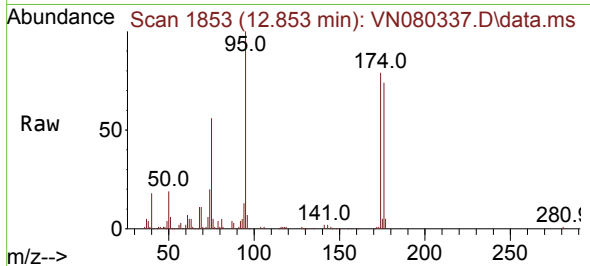




#76
1,2,3-Trichloropropane
Concen: 27.183 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 89113
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.841 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080337.D
Acq: 04 Dec 2023 14:46

Tgt Ion: 75 Resp: 89113
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

