

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052523\
 Data File : VN077912.D
 Acq On : 25 May 2023 19:14
 Operator : JC\MD
 Sample : 02898-04DL 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20230522

Quant Time: May 26 04:37:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

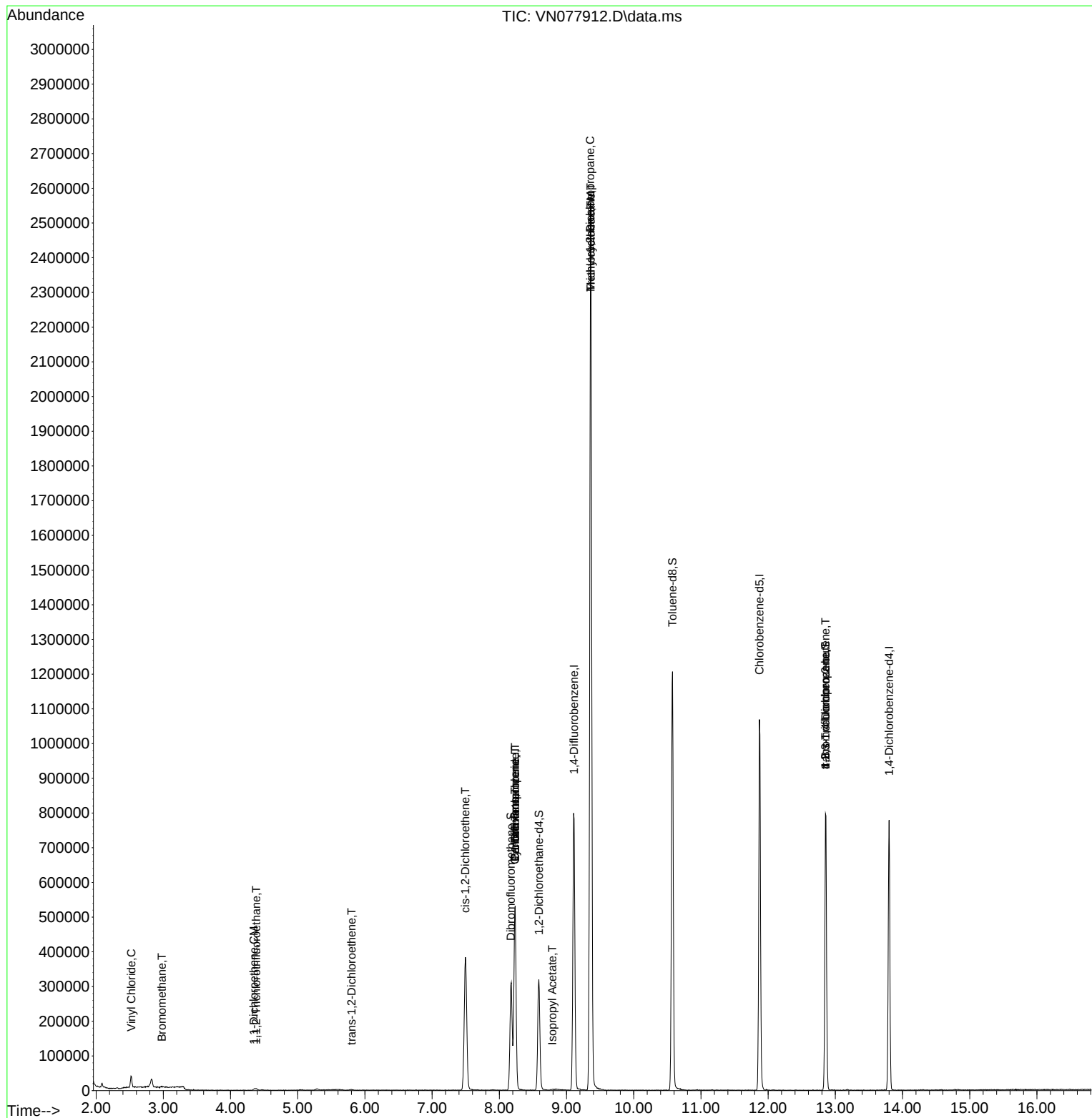
Internal Standards						
1) Pentafluorobenzene	8.236	168	389167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	720659	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	635383	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	204623	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	267728	45.978	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.960%
35) Dibromofluoromethane	8.171	113	222352	47.316	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.640%
50) Toluene-d8	10.577	98	880333	48.669	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.340%
62) 4-Bromofluorobenzene	12.853	95	287928	45.071	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.140%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	849	Below Cal	#	78
4) Vinyl Chloride	2.524	62	31746	5.685	ug/l	96
5) Bromomethane	2.977	94	1185	0.287	ug/l #	77
9) 1,1,2-Trichlorotrifluo...	4.383	101	2097	0.487	ug/l #	65
12) 1,1-Dichloroethene	4.348	96	920	0.225	ug/l #	59
13) Acrolein	4.201	56	165	Below Cal	#	16
20) Methylene Chloride	5.289	84	2976	Below Cal	#	80
21) trans-1,2-Dichloroethene	5.800	96	1107	0.241	ug/l #	67
27) cis-1,2-Dichloroethene	7.495	96	236946	42.979	ug/l	97
31) Cyclohexane	8.230	56	9017	1.139	ug/l #	51
36) 1,1-Dichloropropene	8.236	75	33814	4.919	ug/l #	47
38) Carbon Tetrachloride	8.236	117	41870	6.032	ug/l #	15
39) Methylcyclohexane	9.359	83	12078	1.435	ug/l #	1
43) Isopropyl Acetate	8.789	43	2244	0.224	ug/l #	49
44) Trichloroethene	9.359	130	899996	175.234	ug/l	95
45) 1,2-Dichloropropane	9.353	63	2916	0.564	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	155792	30.401	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	155792	97.179	ug/l #	15

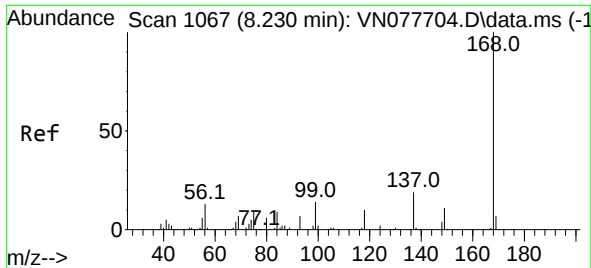
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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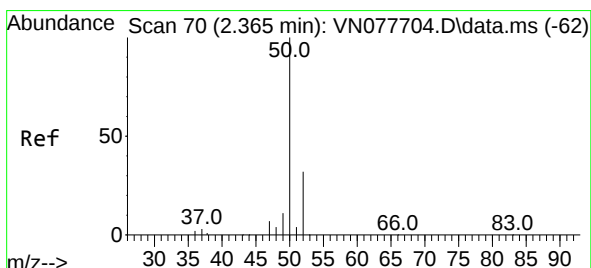
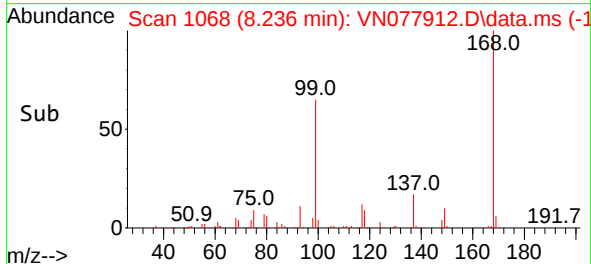
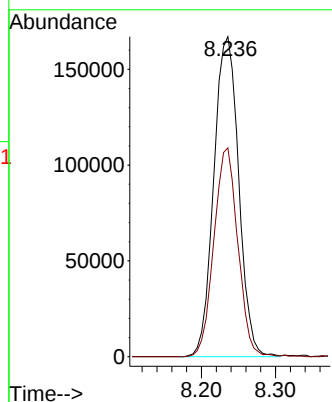
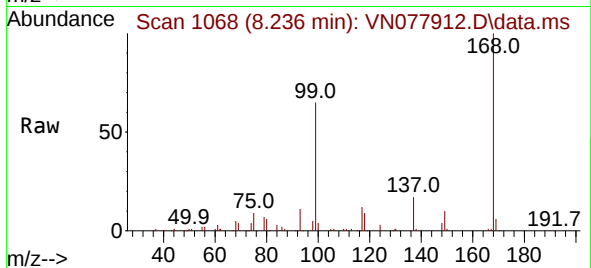




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

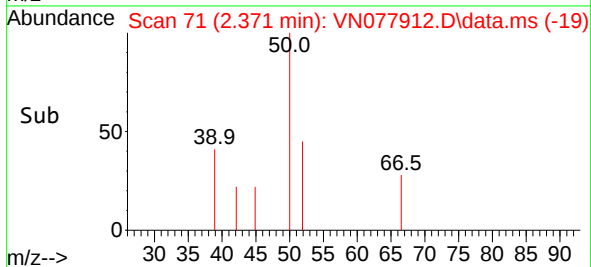
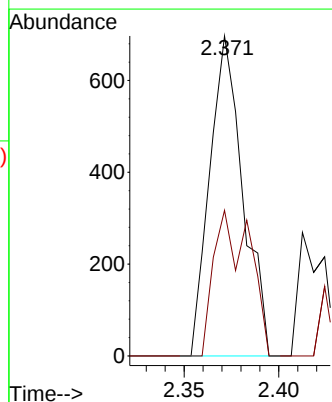
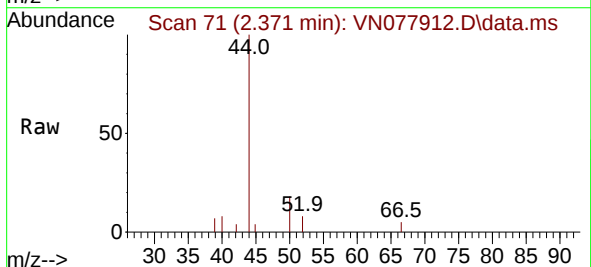
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

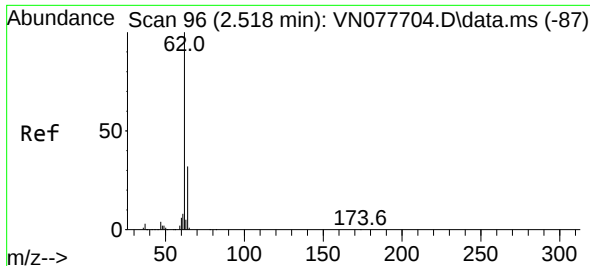
Tgt Ion:168 Resp: 389167
Ion Ratio Lower Upper
168 100
99 65.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion: 50 Resp: 849
Ion Ratio Lower Upper
50 100
52 45.5 26.5 39.7#

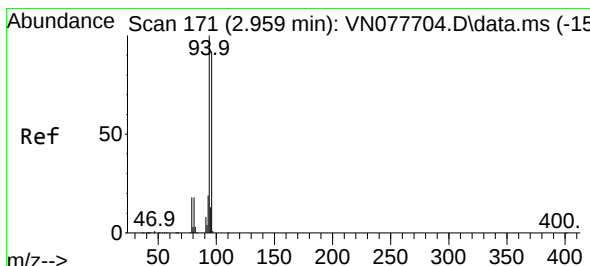
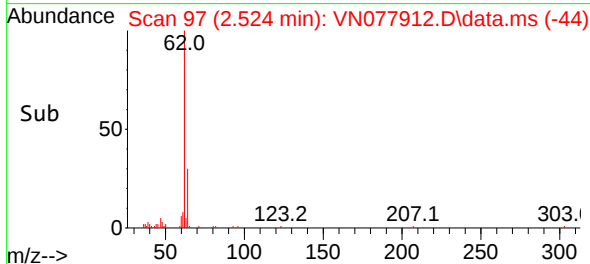
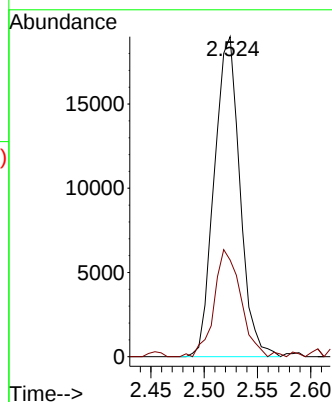
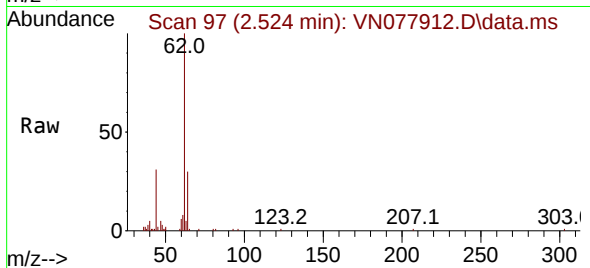




#4
 Vinyl Chloride
 Concen: 5.685 ug/l
 RT: 2.524 min Scan# 91
 Delta R.T. 0.012 min
 Lab File: VN077912.D
 Acq: 25 May 2023 19:14

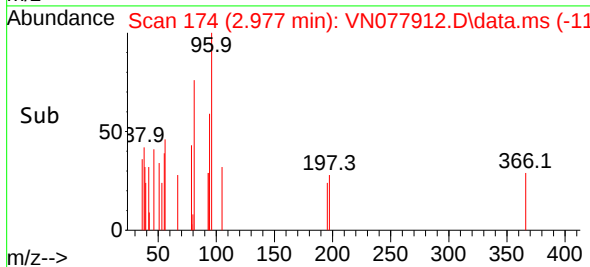
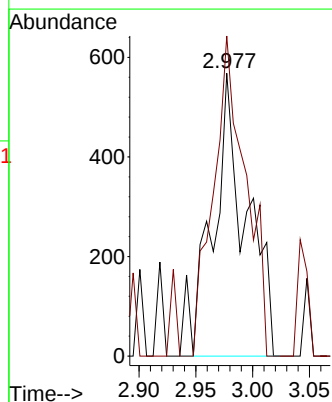
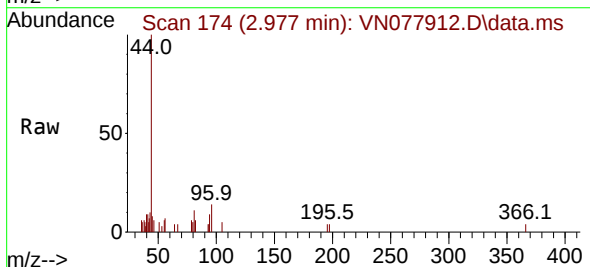
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20230522

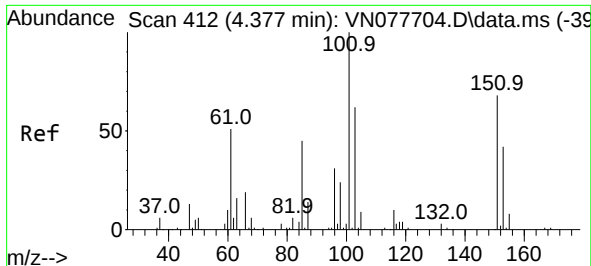
Tgt Ion: 62 Resp: 31746
 Ion Ratio Lower Upper
 62 100
 64 30.2 26.2 39.2



#5
 Bromomethane
 Concen: 0.287 ug/l
 RT: 2.977 min Scan# 174
 Delta R.T. 0.030 min
 Lab File: VN077912.D
 Acq: 25 May 2023 19:14

Tgt Ion: 94 Resp: 1185
 Ion Ratio Lower Upper
 94 100
 96 113.2 73.1 109.7#

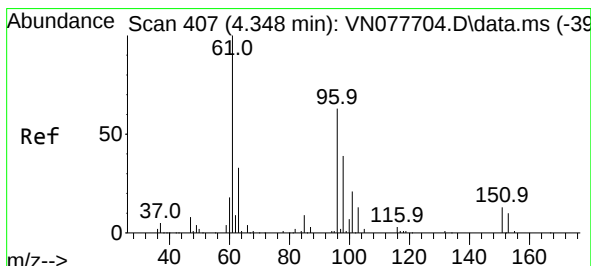
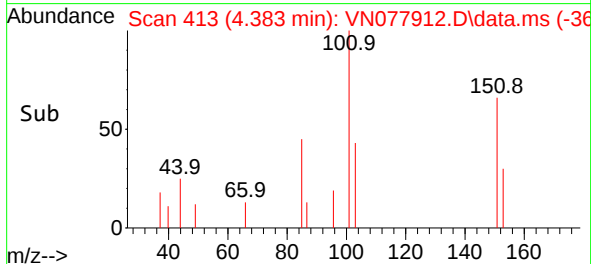
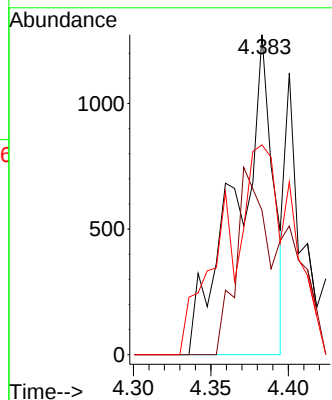
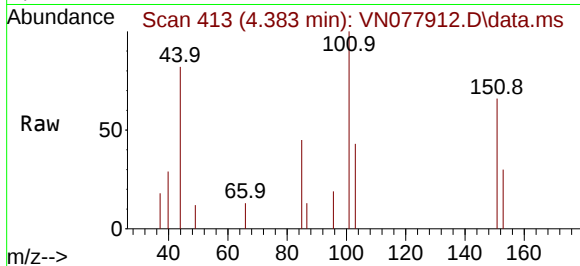




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.487 ug/l
RT: 4.383 min Scan# 412
Delta R.T. 0.006 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

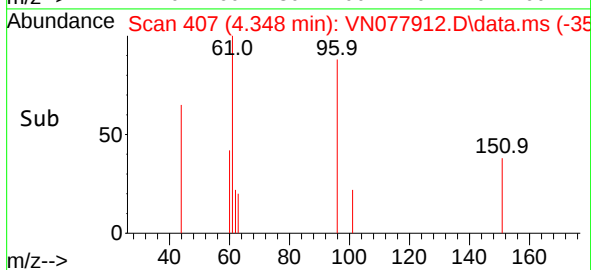
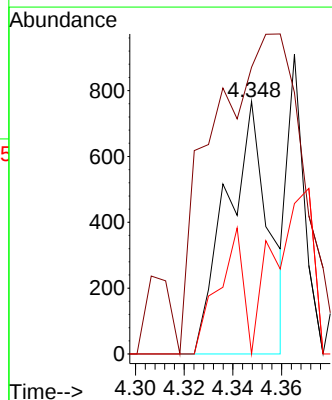
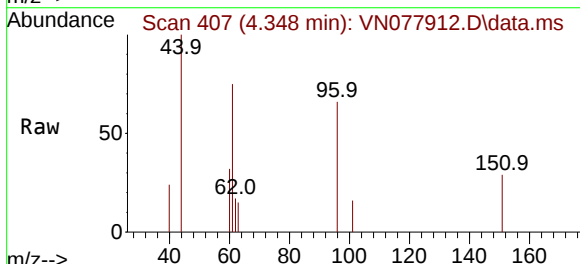
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

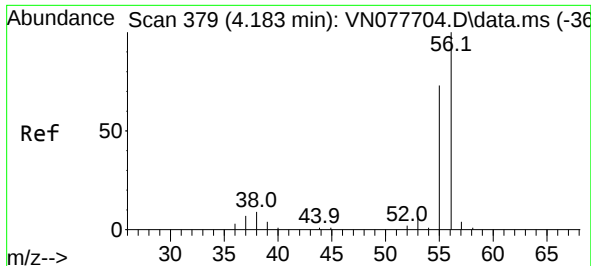
Tgt Ion:101 Resp: 2097
Ion Ratio Lower Upper
101 100
85 0.0 36.6 55.0#
151 82.7 57.6 86.4



#12
1,1-Dichloroethene
Concen: 0.225 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.001 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion: 96 Resp: 920
Ion Ratio Lower Upper
96 100
61 113.6 112.7 169.1
98 0.0 51.2 76.8#





#13

Acrolein

Concen: Below Cal

RT: 4.201 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Instrument :

MSVOA_N

ClientSampleId :

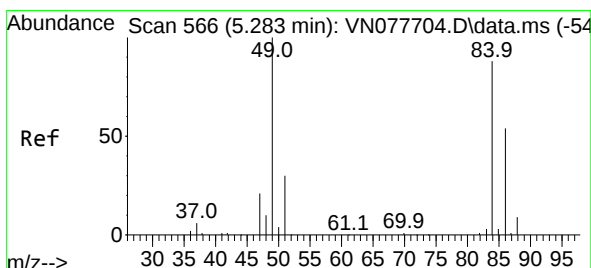
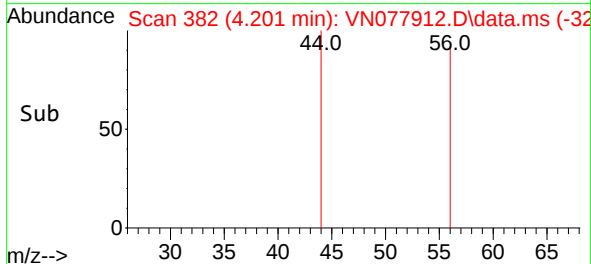
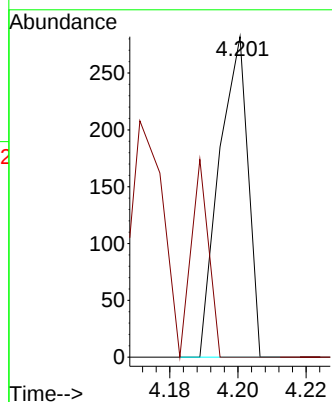
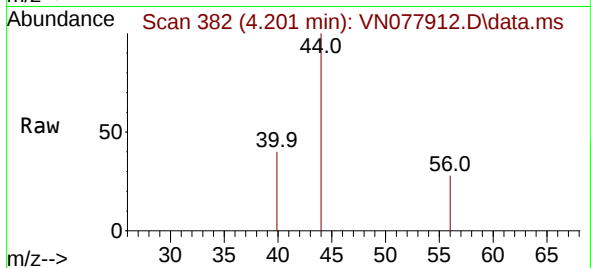
DUP01-20230522

Tgt Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.289 min Scan# 567

Delta R.T. 0.006 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Tgt Ion: 84 Resp: 2976

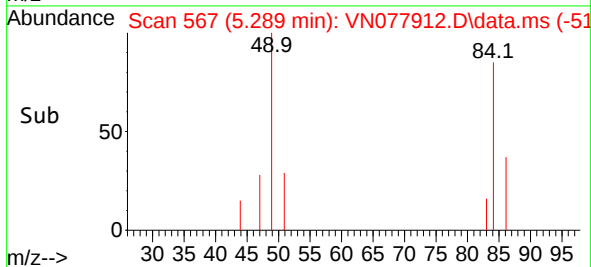
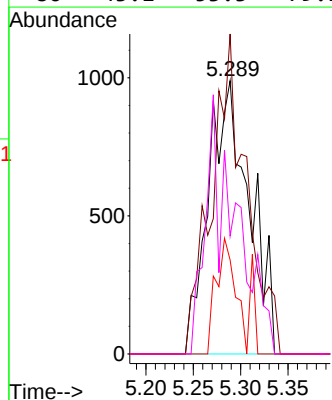
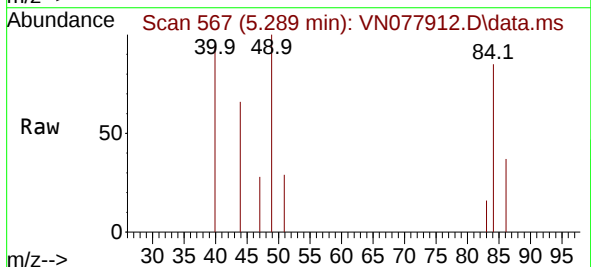
Ion Ratio Lower Upper

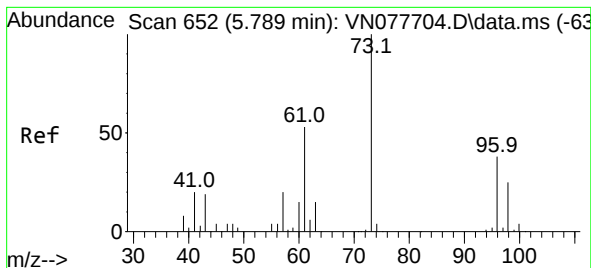
84 100

49 117.1 79.7 119.5

51 34.3 25.2 37.8

86 43.1 53.3 79.9#





#21

trans-1,2-Dichloroethene

Concen: 0.241 ug/l

RT: 5.800 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20230522

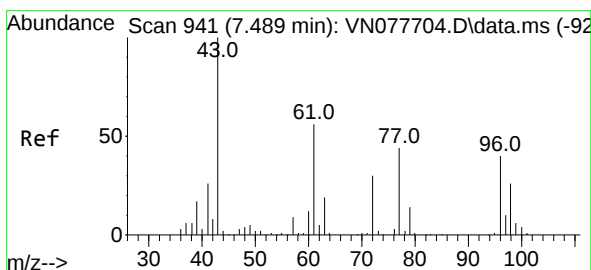
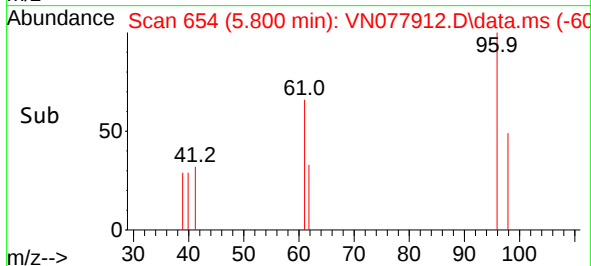
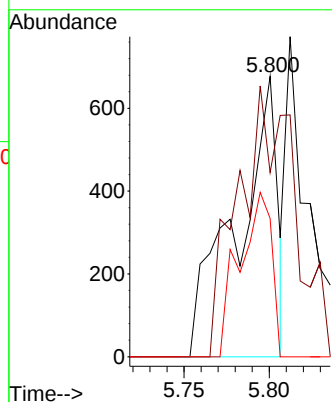
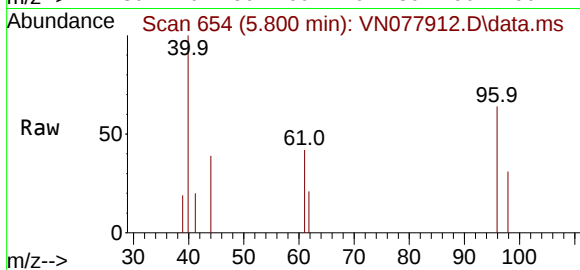
Tgt Ion: 96 Resp: 1107

Ion Ratio Lower Upper

96 100

61 65.7 90.1 135.1#

98 49.3 46.4 69.6



#27

cis-1,2-Dichloroethene

Concen: 42.979 ug/l

RT: 7.495 min Scan# 942

Delta R.T. 0.006 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

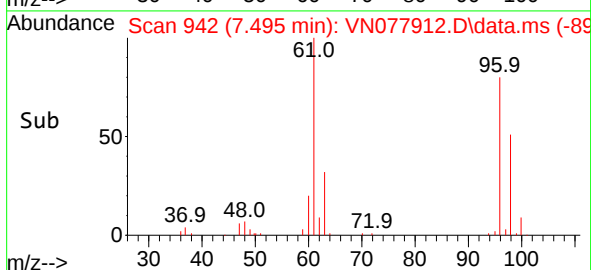
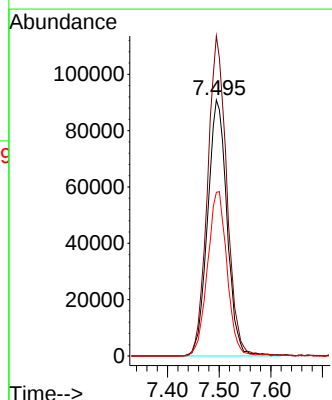
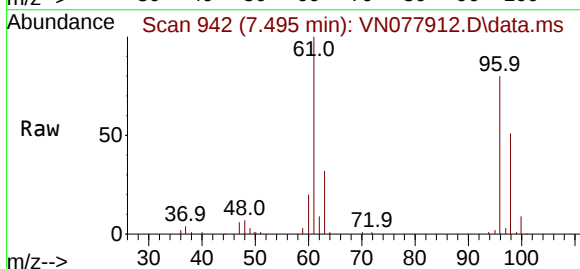
Tgt Ion: 96 Resp: 236946

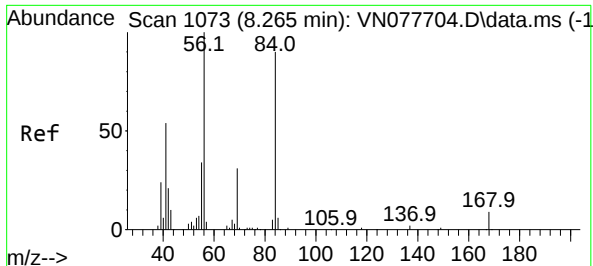
Ion Ratio Lower Upper

96 100

61 123.0 0.0 255.2

98 64.3 0.0 128.8

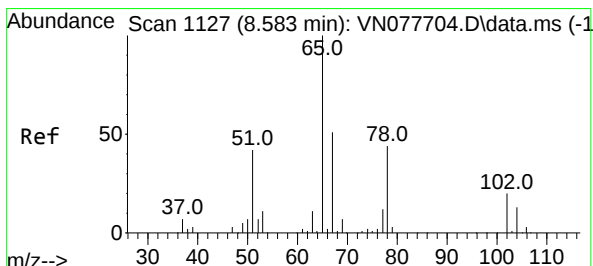
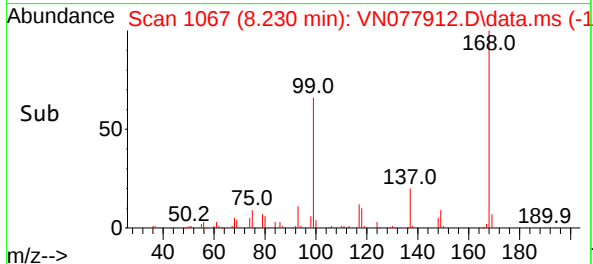
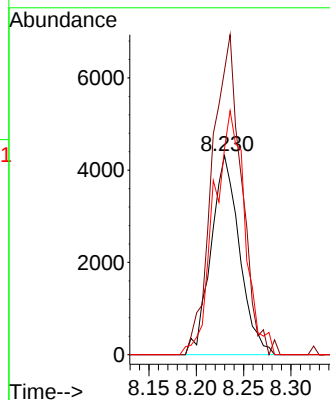
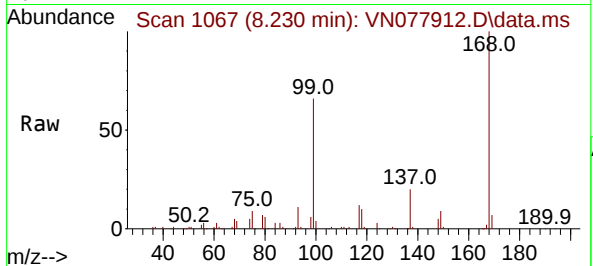




#31
Cyclohexane
Concen: 1.139 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

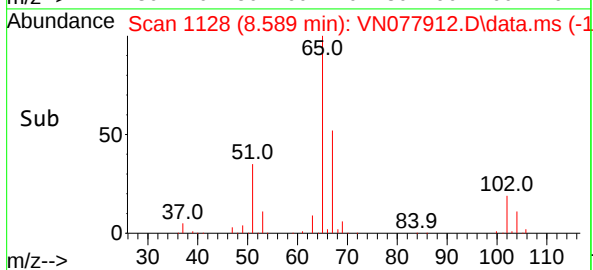
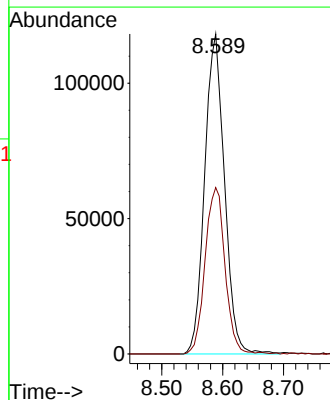
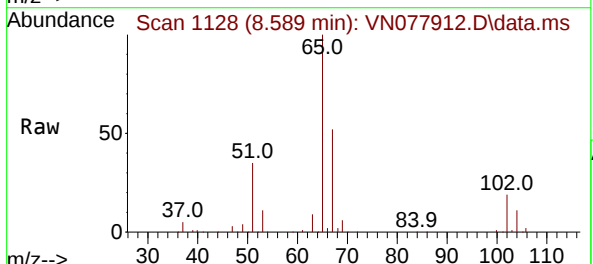
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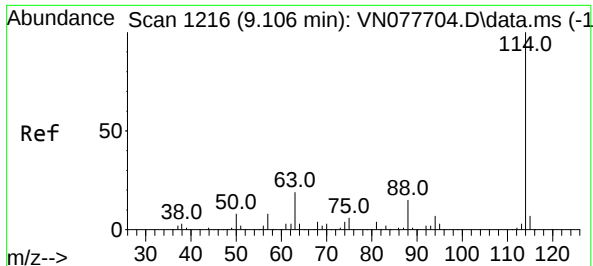
Tgt Ion: 56 Resp: 9017
Ion Ratio Lower Upper
56 100
69 142.8 26.8 40.2#
84 103.7 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 45.978 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.007 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion: 65 Resp: 267728
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20230522

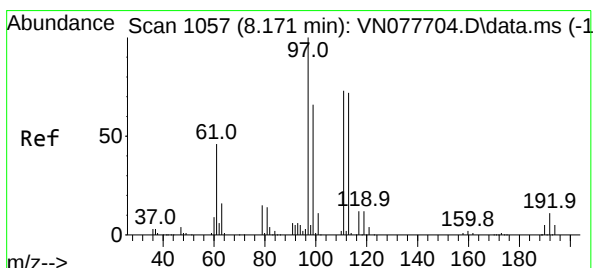
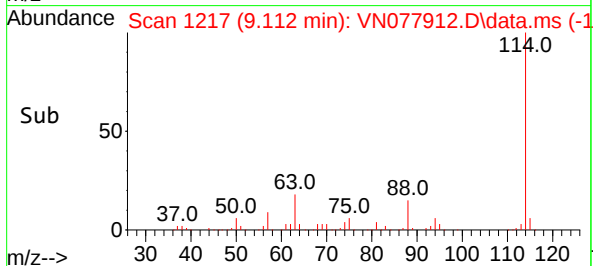
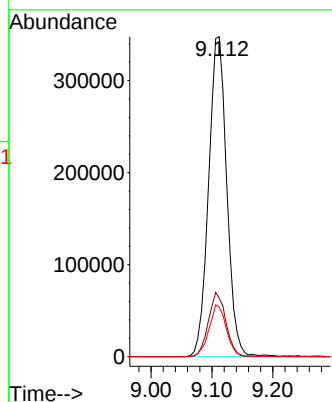
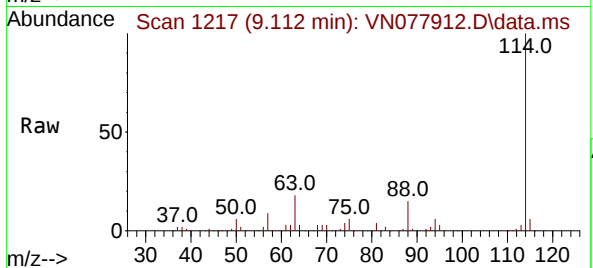
Tgt Ion:114 Resp: 720659

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.316 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

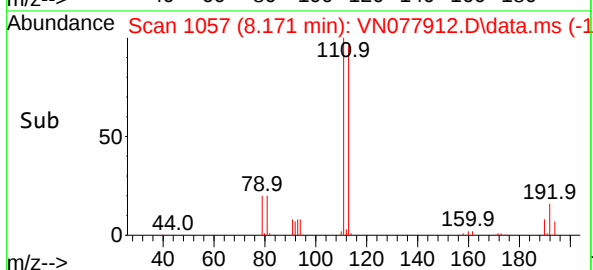
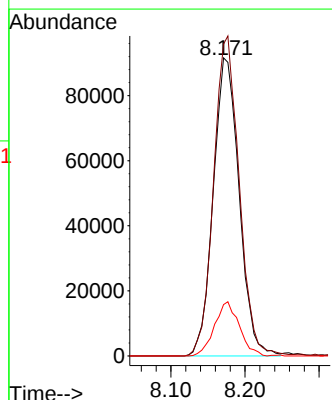
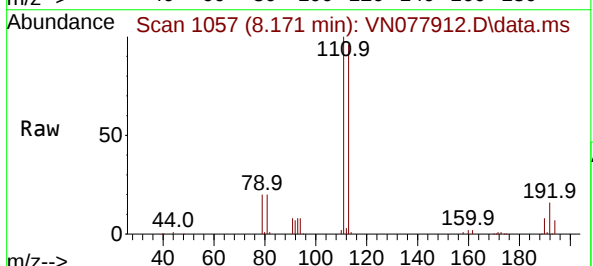
Tgt Ion:113 Resp: 222352

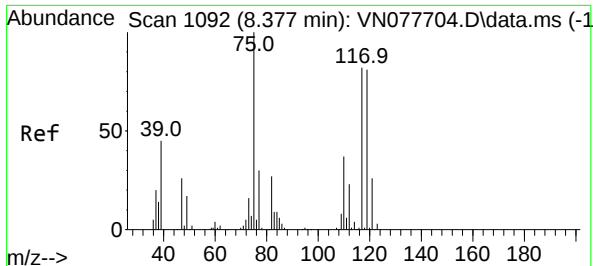
Ion Ratio Lower Upper

113 100

111 105.7 82.6 123.8

192 17.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.919 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20230522

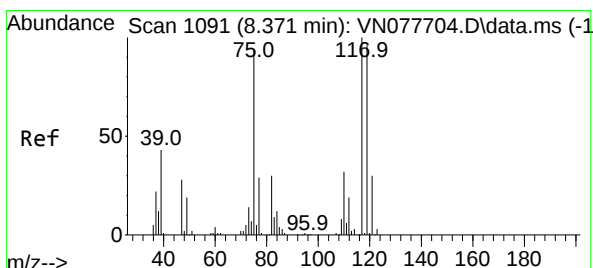
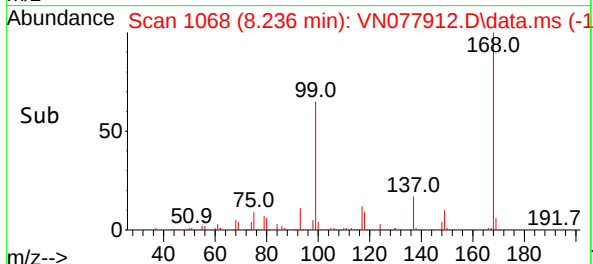
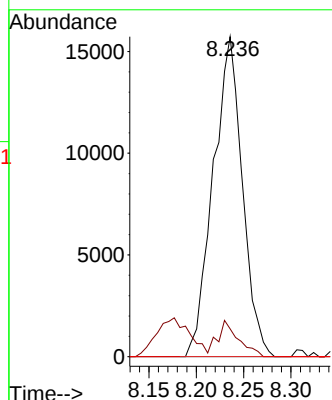
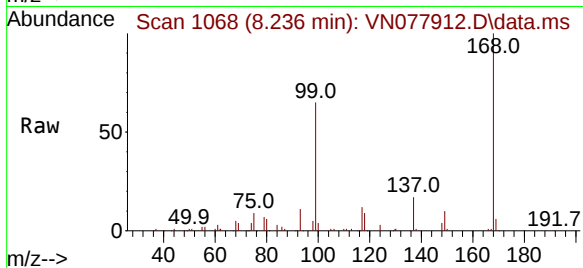
Tgt Ion: 75 Resp: 33814

Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.032 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

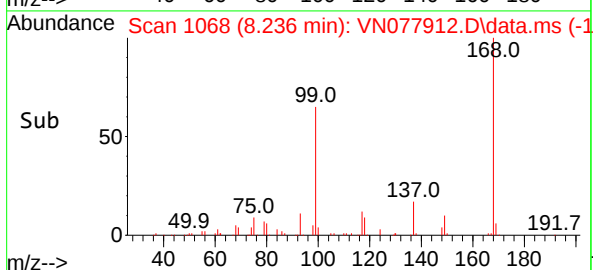
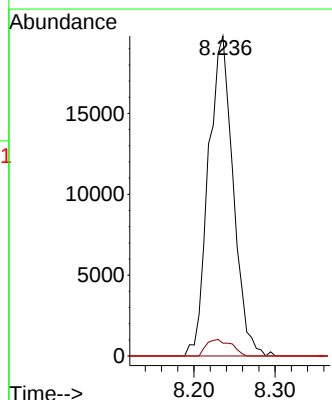
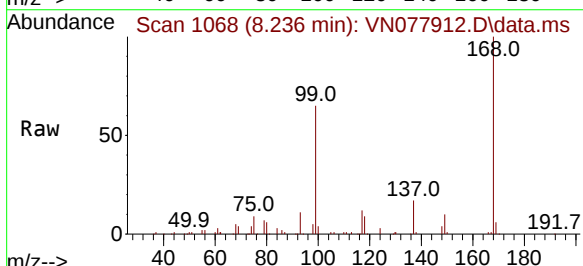
Tgt Ion: 117 Resp: 41870

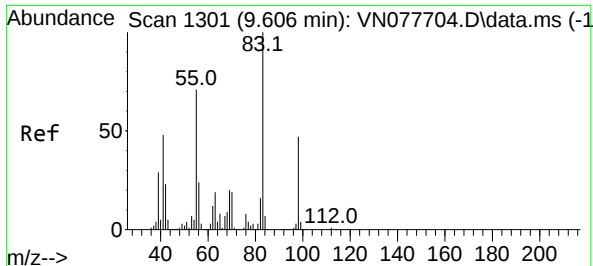
Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 1.435 ug/l

RT: 9.359 min Scan# 1162

Delta R.T. -0.247 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20230522

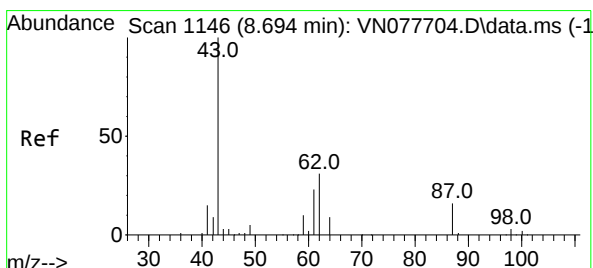
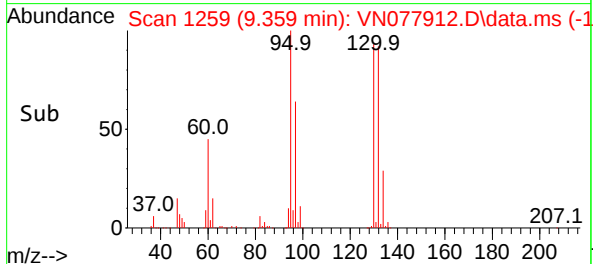
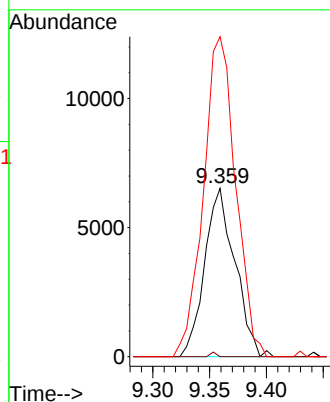
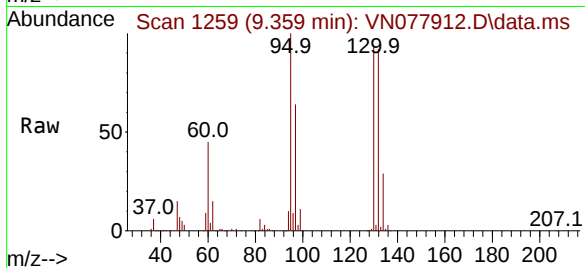
Tgt Ion: 83 Resp: 12078

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 190.1 40.6 61.0#



#43

Isopropyl Acetate

Concen: 0.224 ug/l

RT: 8.789 min Scan# 1162

Delta R.T. 0.095 min

Lab File: VN077912.D

Acq: 25 May 2023 19:14

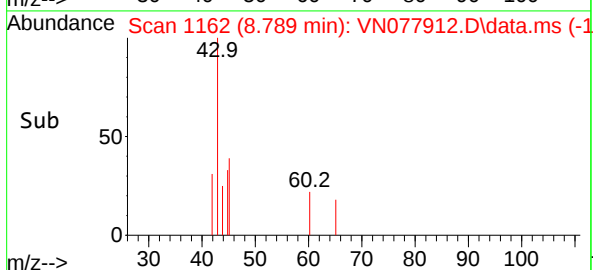
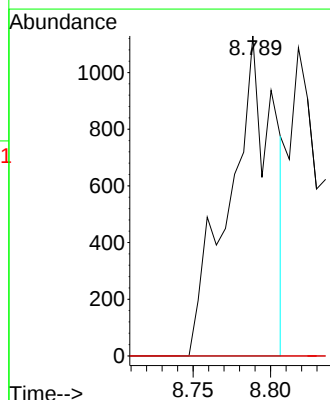
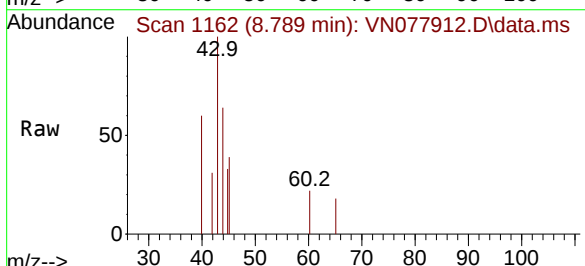
Tgt Ion: 43 Resp: 2244

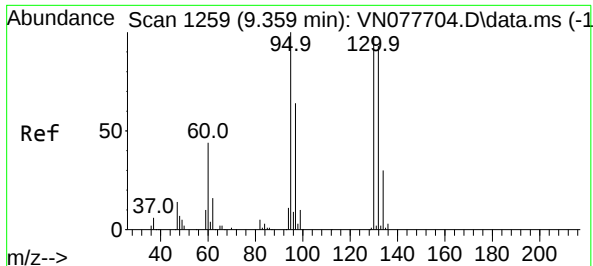
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

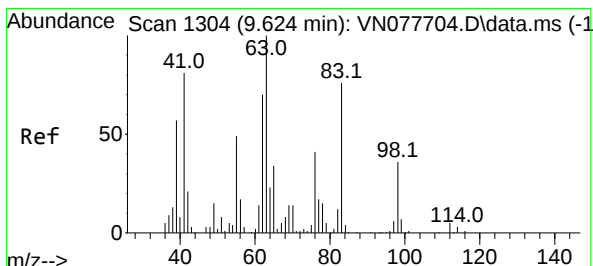
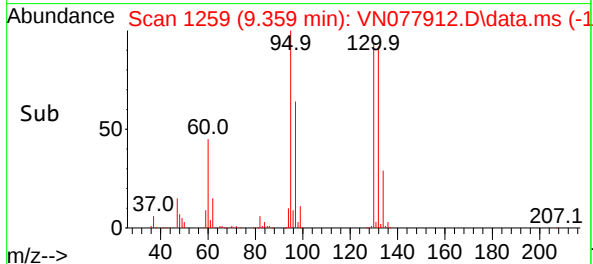
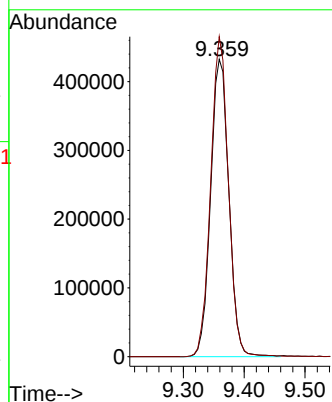
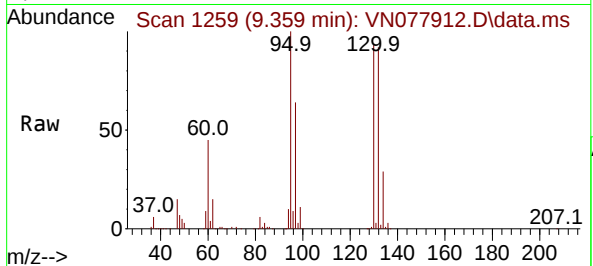




#44
 Trichloroethene
 Concen: 175.234 ug/l
 RT: 9.359 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN077912.D
 Acq: 25 May 2023 19:14

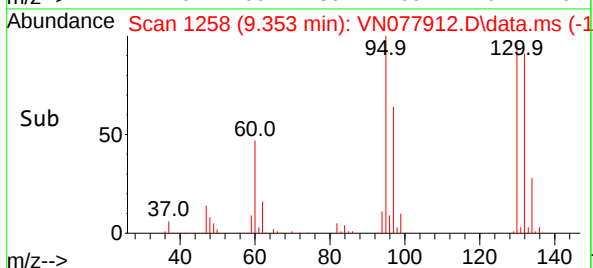
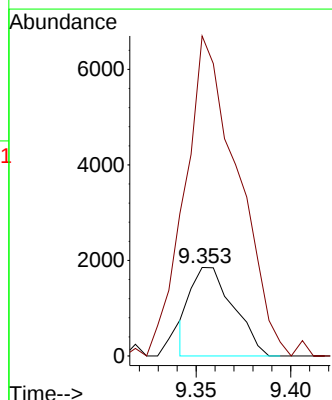
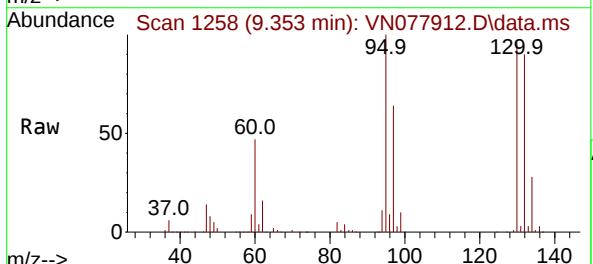
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20230522

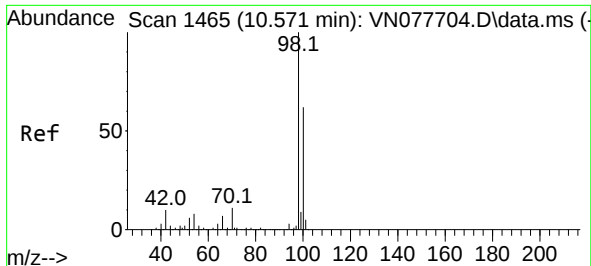
Tgt Ion:130 Resp: 899996
 Ion Ratio Lower Upper
 130 100
 95 107.6 0.0 204.6



#45
 1,2-Dichloropropane
 Concen: 0.564 ug/l
 RT: 9.353 min Scan# 1258
 Delta R.T. -0.271 min
 Lab File: VN077912.D
 Acq: 25 May 2023 19:14

Tgt Ion: 63 Resp: 2916
 Ion Ratio Lower Upper
 63 100
 65 345.7 23.9 35.9#

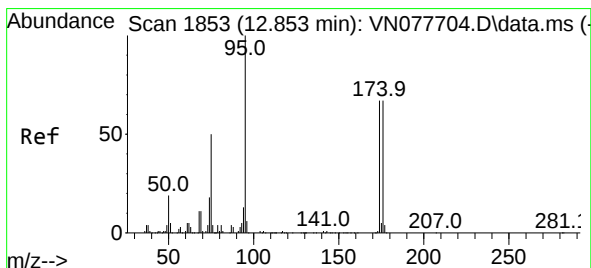
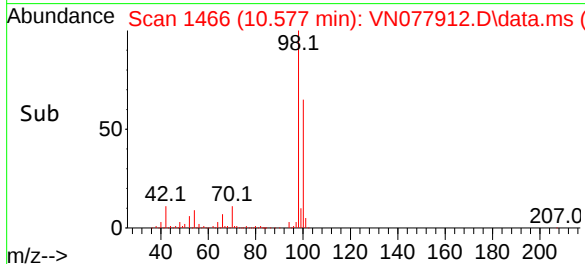
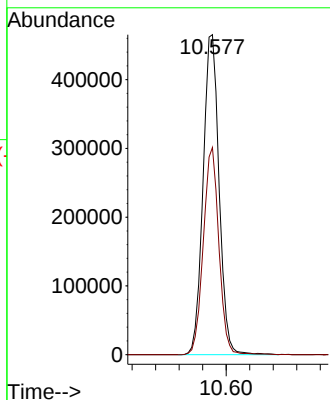
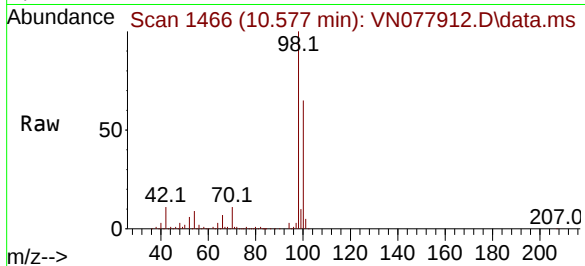




#50
Toluene-d8
Concen: 48.669 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

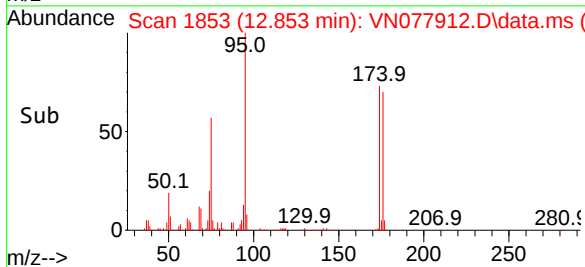
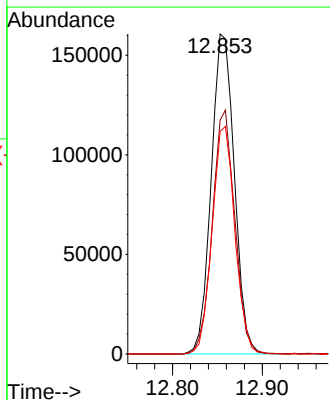
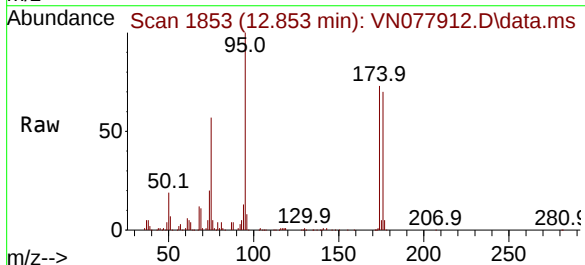
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

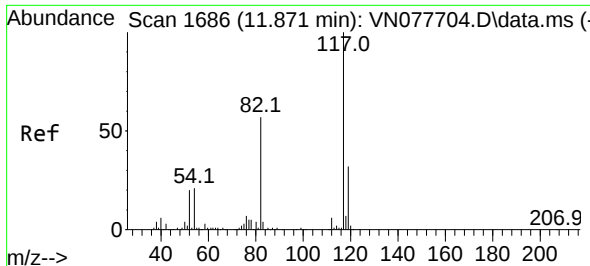
Tgt Ion: 98 Resp: 880333
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 45.071 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion: 95 Resp: 287928
Ion Ratio Lower Upper
95 100
174 73.9 0.0 143.8
176 70.0 0.0 135.8

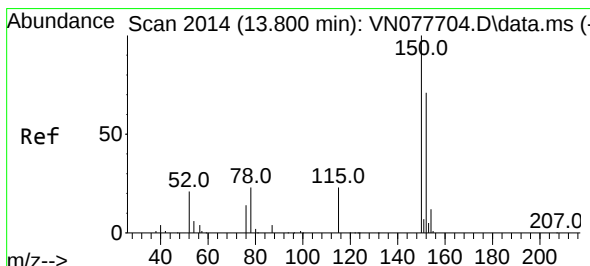
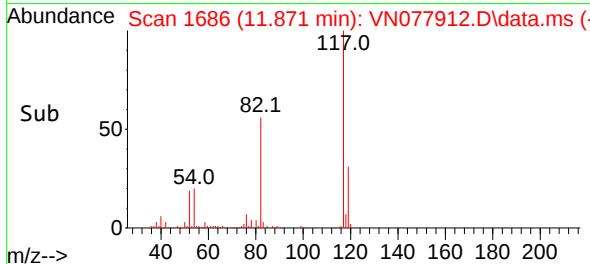
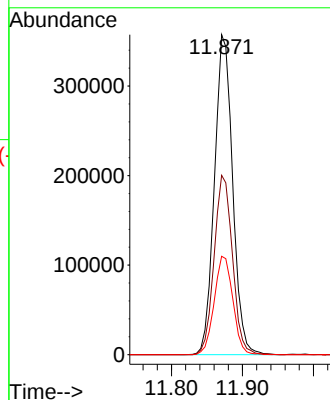
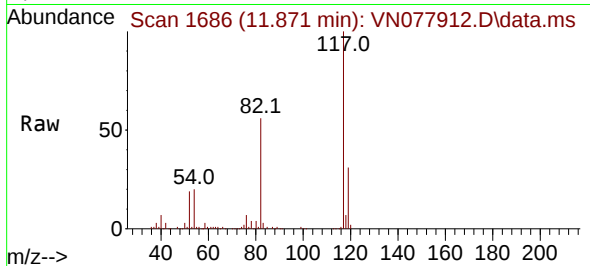




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

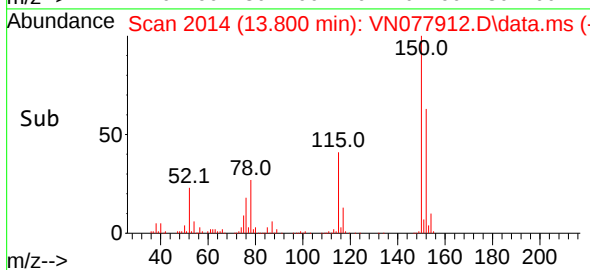
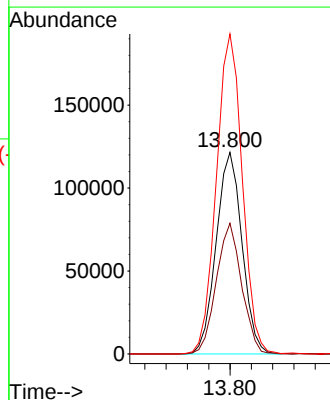
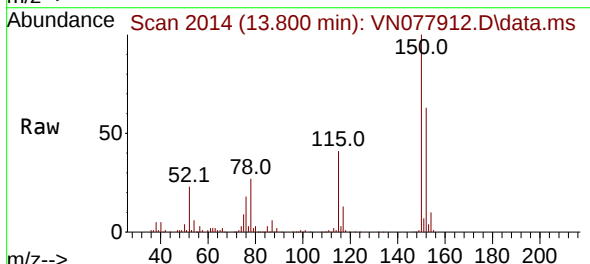
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

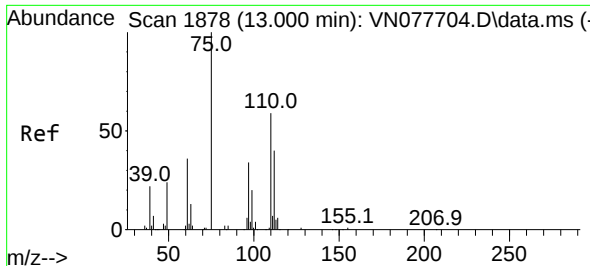
Tgt Ion:117 Resp: 635383
Ion Ratio Lower Upper
117 100
82 56.0 44.0 66.0
119 30.8 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion:152 Resp: 204623
Ion Ratio Lower Upper
152 100
115 63.5 32.3 96.8
150 159.2 0.0 355.8

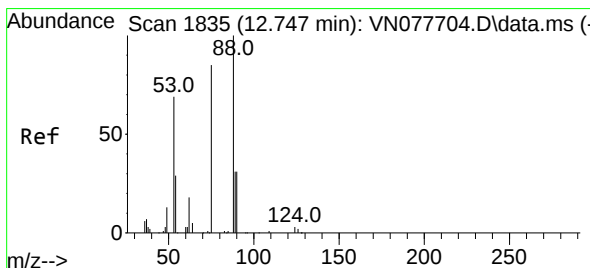
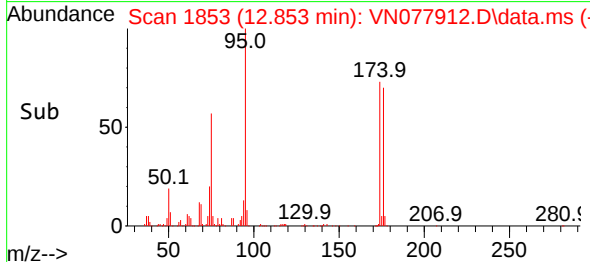
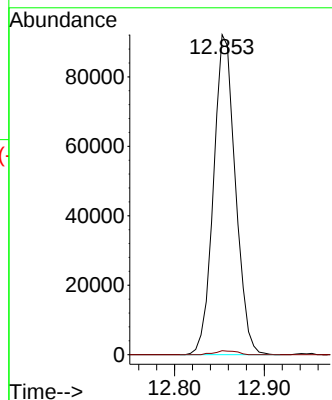
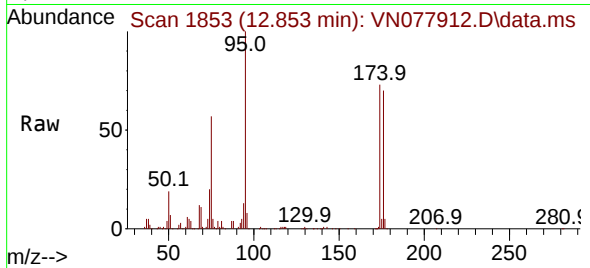




#76
1,2,3-Trichloropropane
Concen: 30.401 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

Tgt Ion: 75 Resp: 155792
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.179 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077912.D
Acq: 25 May 2023 19:14

Tgt Ion: 75 Resp: 155792
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

