

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052223\
 Data File : VN077797.D
 Acq On : 22 May 2023 18:17
 Operator : JC\MD
 Sample : 02880-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW4-20230519

Quant Time: May 23 04:21:07 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)

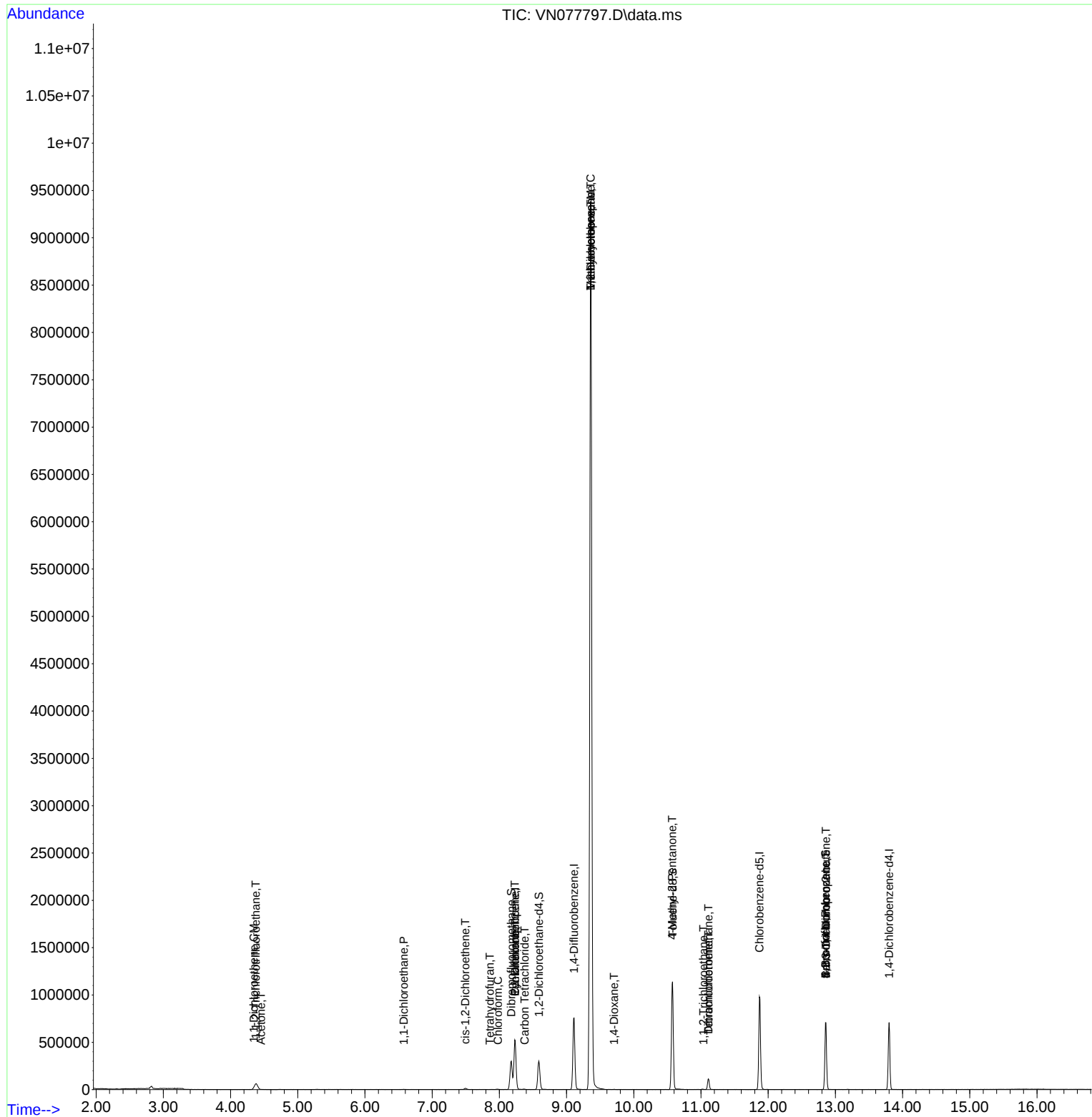
Internal Standards						
1) Pentafluorobenzene	8.235	168	374916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	675351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	599432	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	194282	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	253507	45.191	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.380%
35) Dibromofluoromethane	8.177	113	216023	49.053	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.100%
50) Toluene-d8	10.576	98	848549	50.059	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.120%
62) 4-Bromofluorobenzene	12.853	95	260597	43.529	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.060%
Target Compounds						
3) Chloromethane	2.371	50	2075	Below Cal	#	84
9) 1,1,2-Trichlorotrifluo...	4.377	101	40469	9.754	ug/l	95
12) 1,1-Dichloroethene	4.347	96	6597	1.673	ug/l #	81
13) Acrolein	4.200	56	161	Below Cal	#	65
16) Acetone	4.453	43	1231	0.697	ug/l #	40
20) Methylene Chloride	5.294	84	610	Below Cal	#	57
24) 1,1-Dichloroethane	6.577	63	2096	0.252	ug/l #	81
27) cis-1,2-Dichloroethene	7.494	96	7342	1.382	ug/l	97
29) Tetrahydrofuran	7.859	42	405	0.224	ug/l #	42
30) Chloroform	7.977	83	3560	0.389	ug/l	97
31) Cyclohexane	8.235	56	9087	1.192	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	31486	4.888	ug/l #	48
38) Carbon Tetrachloride	8.377	117	3110	0.478	ug/l #	82
39) Methylcyclohexane	9.359	83	42652	5.409	ug/l #	1
44) Trichloroethene	9.359	130	3323053	690.425	ug/l	98
45) 1,2-Dichloropropane	9.359	63	9800	2.021	ug/l #	1
49) 1,4-Dioxane	9.706	88	1167	13.897	ug/l #	85
51) 4-Methyl-2-Pentanone	10.571	43	3602	0.646	ug/l #	1
55) 1,1,2-Trichloroethane	11.035	97	1501	0.319	ug/l #	81
60) Dibromochloromethane	11.112	129	26920	5.550	ug/l #	11
64) Tetrachloroethene	11.112	164	25893	6.177	ug/l	94
71) Bromoform	12.853	173	1586	0.530	ug/l #	28
76) 1,2,3-Trichloropropane	12.859	75	134078	27.557	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	134078	88.086	ug/l #	15

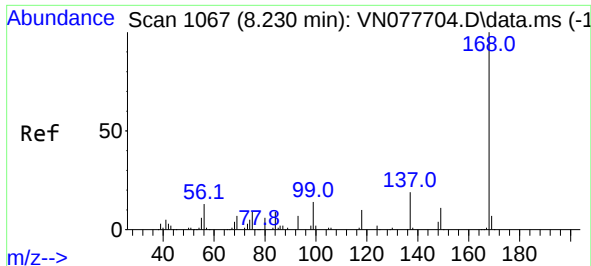
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
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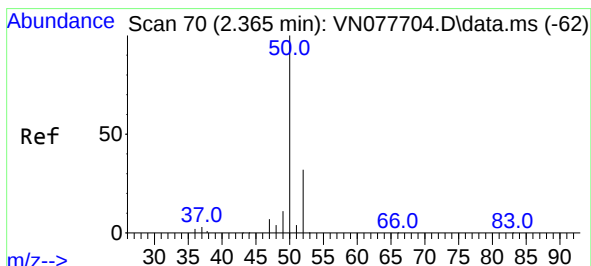
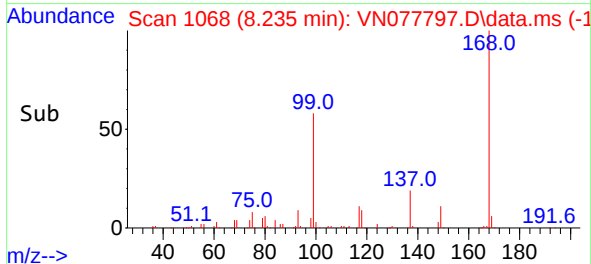
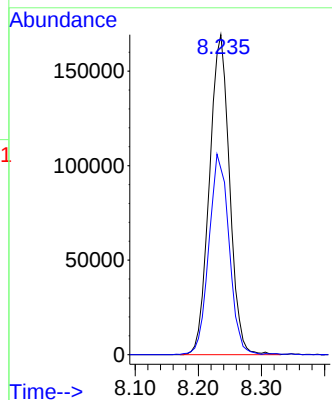
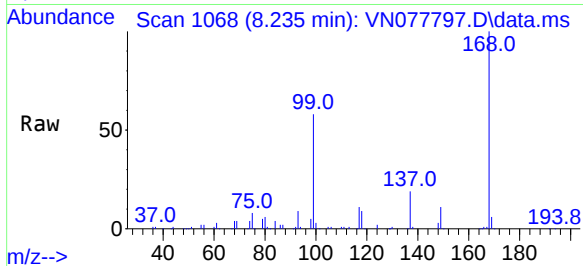




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

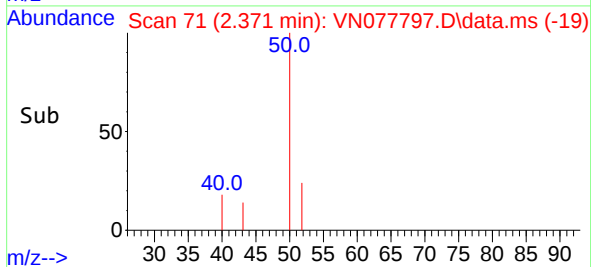
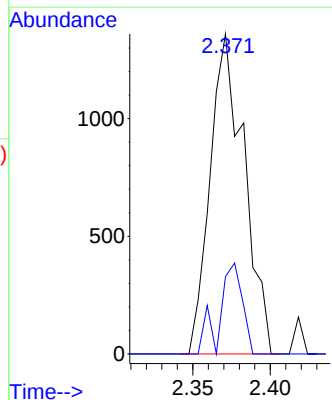
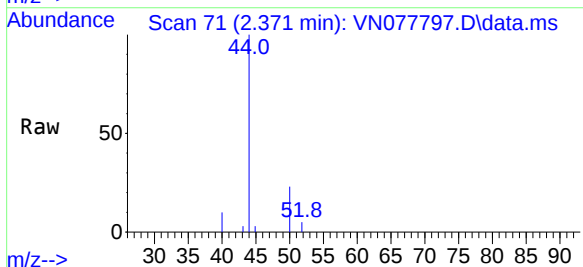
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

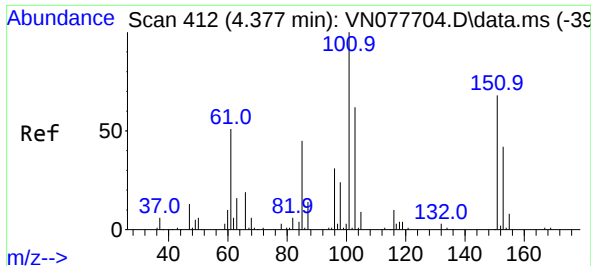
Tgt Ion:168 Resp: 374916
Ion Ratio Lower Upper
168 100
99 58.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 50 Resp: 2075
Ion Ratio Lower Upper
50 100
52 24.2 26.5 39.7#

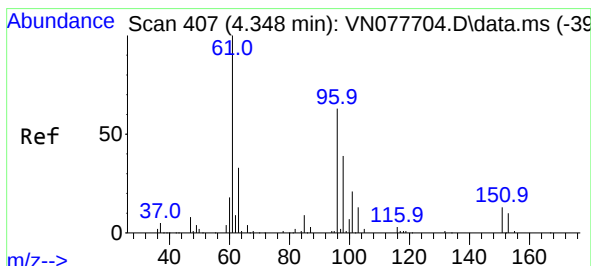
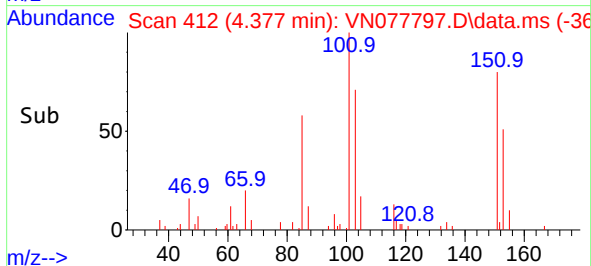
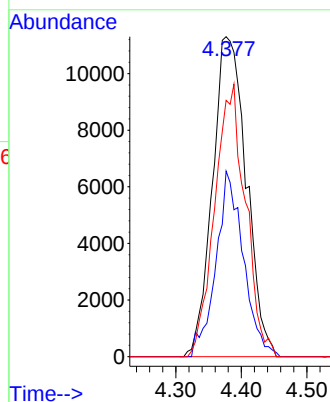
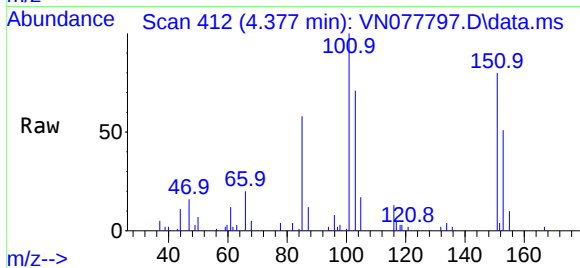




#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.754 ug/l
RT: 4.377 min Scan# 412
Delta R.T. -0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

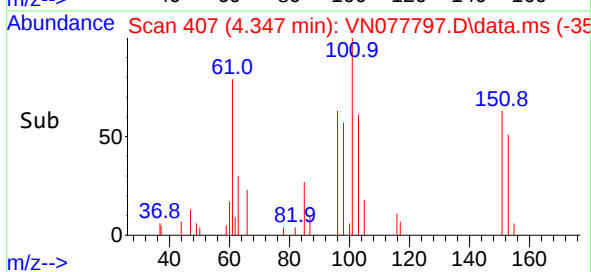
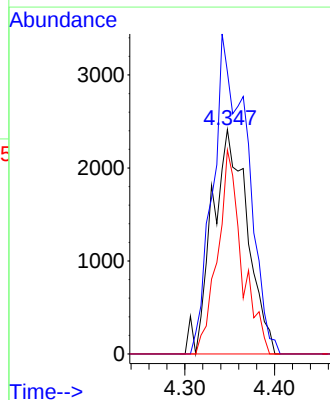
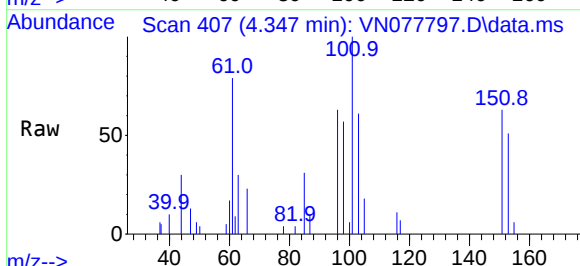
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

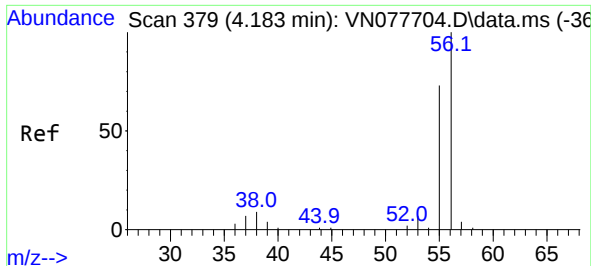
Tgt Ion:101 Resp: 40469
Ion Ratio Lower Upper
101 100
85 47.1 36.6 55.0
151 77.4 57.6 86.4



#12
1,1-Dichloroethene
Concen: 1.673 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 96 Resp: 6597
Ion Ratio Lower Upper
96 100
61 125.7 112.7 169.1
98 90.8 51.2 76.8#

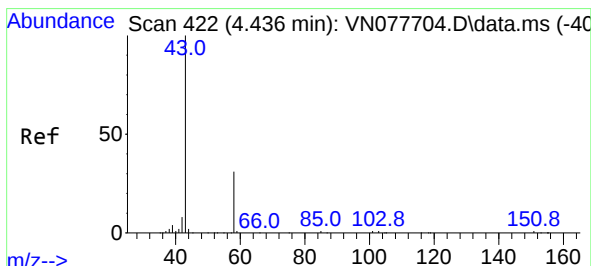
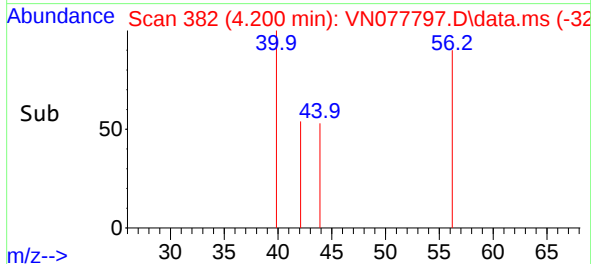
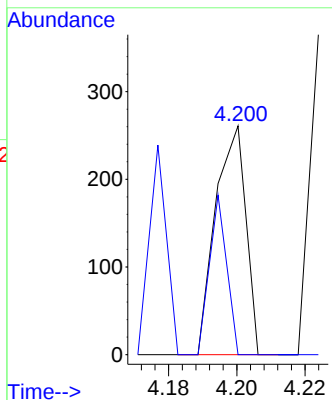
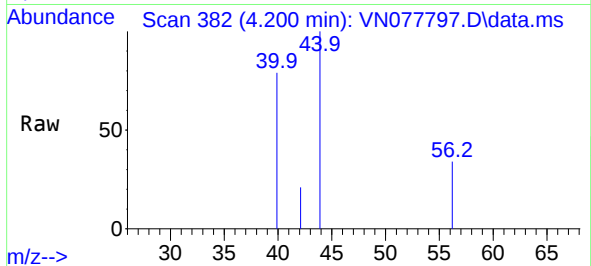




#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

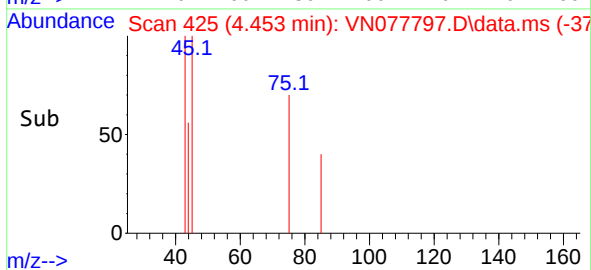
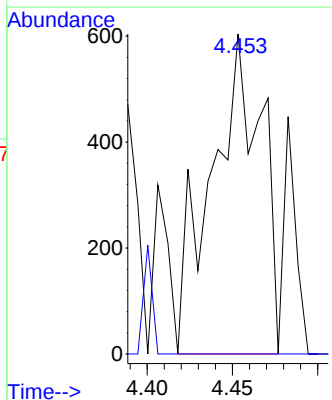
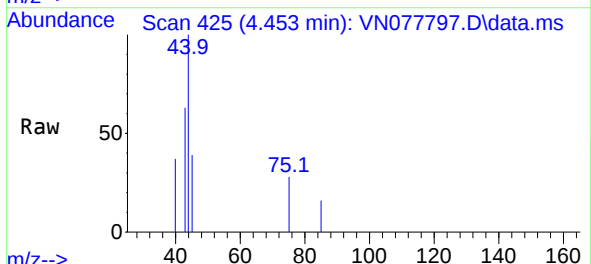
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

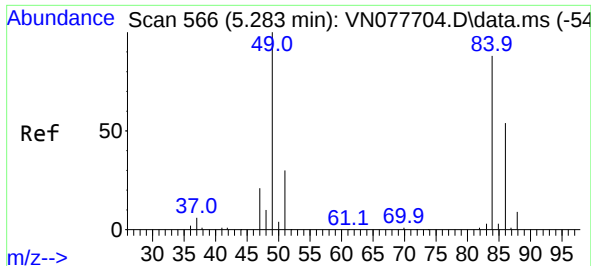
Tgt Ion: 56 Resp: 161
Ion Ratio Lower Upper
56 100
55 39.8 54.5 81.7#



#16
Acetone
Concen: 0.697 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.023 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

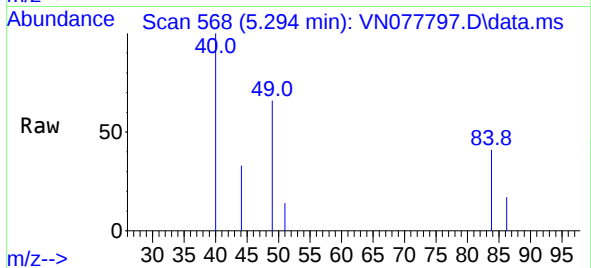
Tgt Ion: 43 Resp: 1231
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#





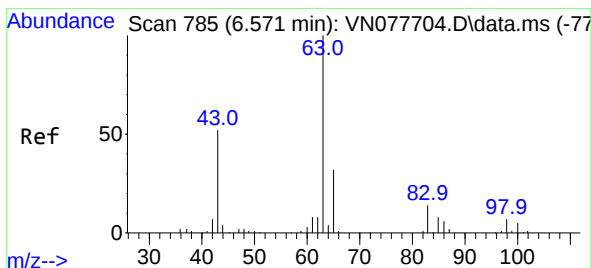
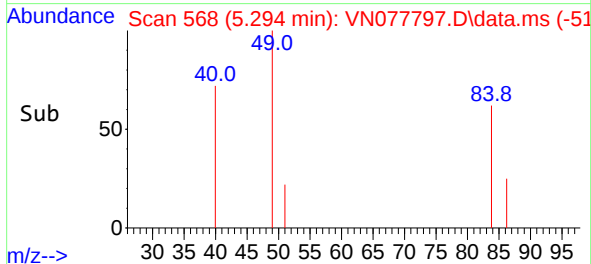
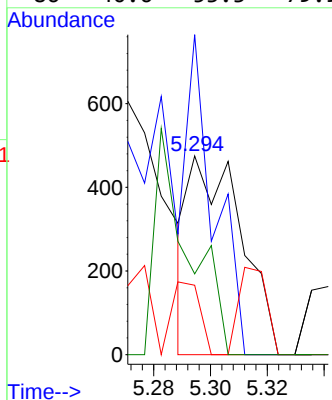
#20
Methylene Chloride
Concen: Below Cal
RT: 5.294 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519



Tgt Ion: 84 Resp: 610

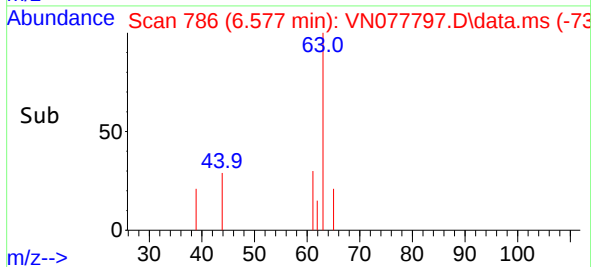
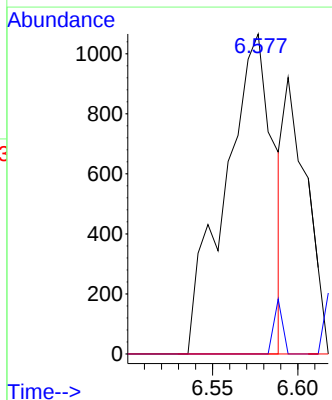
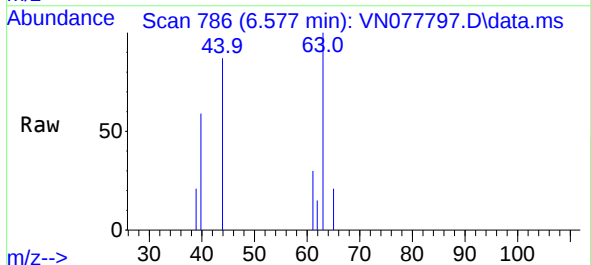
Ion	Ratio	Lower	Upper
84	100		
49	161.1	79.7	119.5#
51	34.9	25.2	37.8
86	40.6	53.3	79.9#

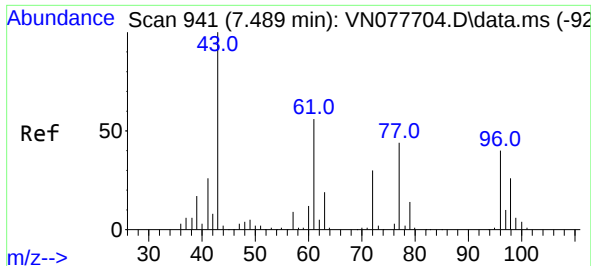


#24
1,1-Dichloroethane
Concen: 0.252 ug/l
RT: 6.577 min Scan# 786
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 63 Resp: 2096

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.9	11.7#
100	0.0	2.5	7.4#

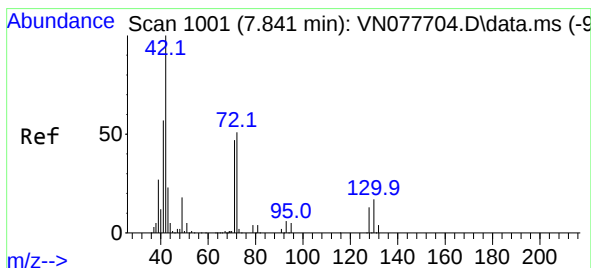
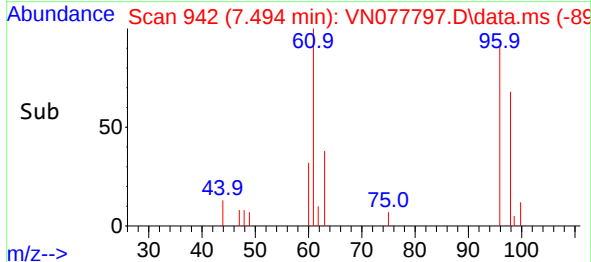
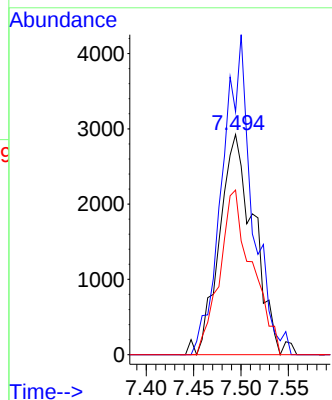
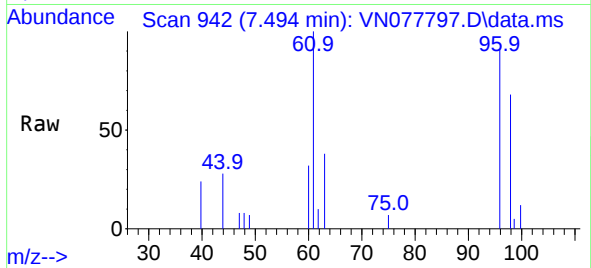




#27
cis-1,2-Dichloroethene
Concen: 1.382 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

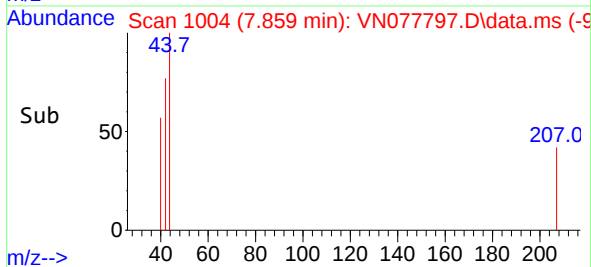
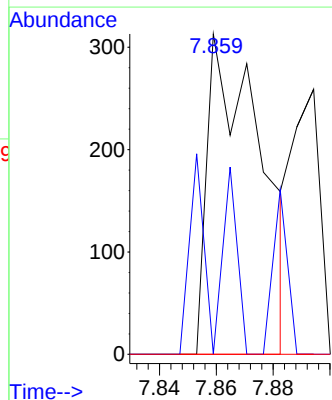
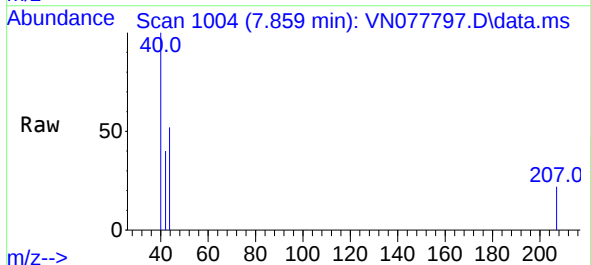
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

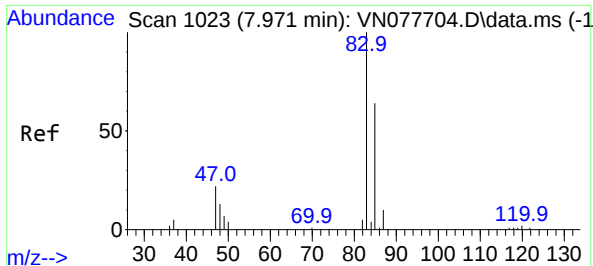
Tgt Ion: 96 Resp: 7342
Ion Ratio Lower Upper
96 100
61 128.0 0.0 255.2
98 70.9 0.0 128.8



#29
Tetrahydrofuran
Concen: 0.224 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 42 Resp: 405
Ion Ratio Lower Upper
42 100
72 33.1 49.8 74.6#
71 0.0 47.4 71.2#





#30

Chloroform

Concen: 0.389 ug/l

RT: 7.977 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN077797.D

Acq: 22 May 2023 18:17

Instrument :

MSVOA_N

ClientSampleId :

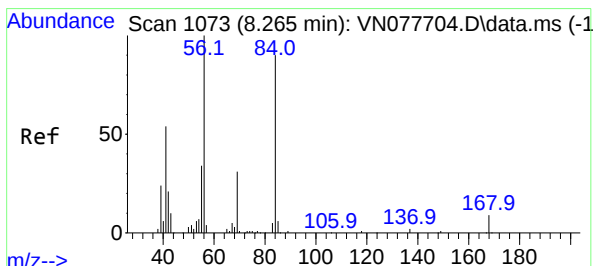
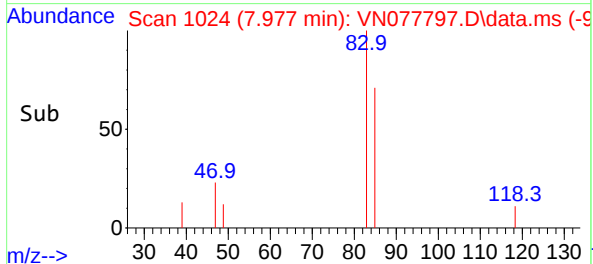
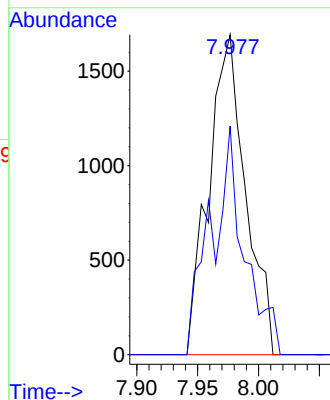
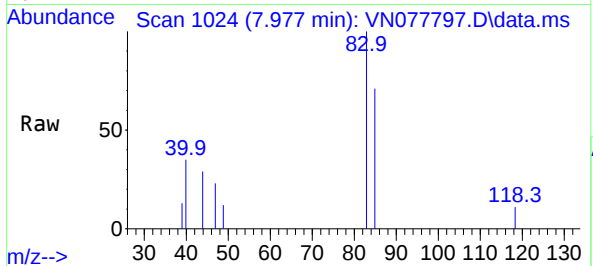
RW4-20230519

Tgt Ion: 83 Resp: 3560

Ion Ratio Lower Upper

83 100

85 71.5 55.4 83.0



#31

Cyclohexane

Concen: 1.192 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN077797.D

Acq: 22 May 2023 18:17

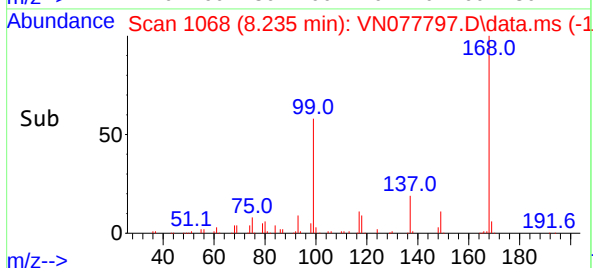
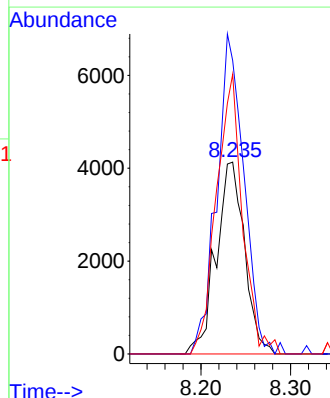
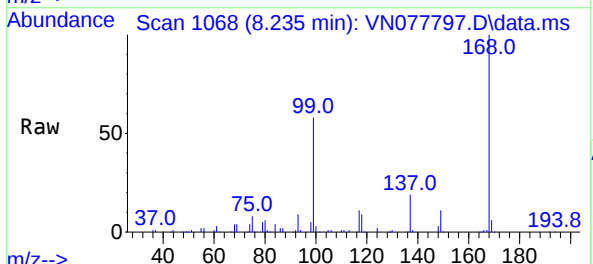
Tgt Ion: 56 Resp: 9087

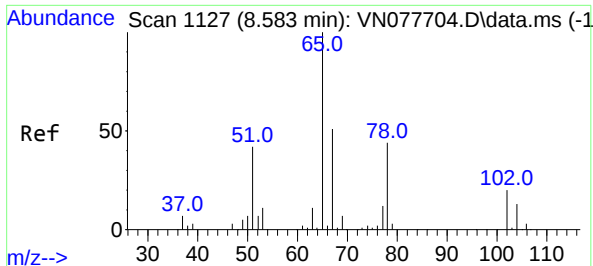
Ion Ratio Lower Upper

56 100

69 153.0 26.8 40.2#

84 145.8 81.8 122.6#

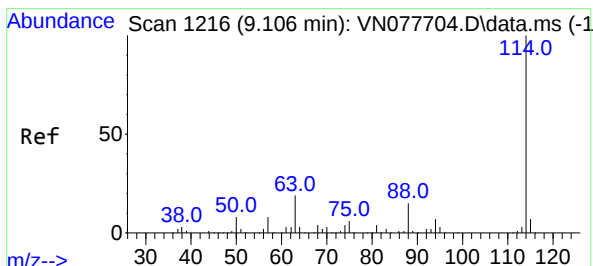
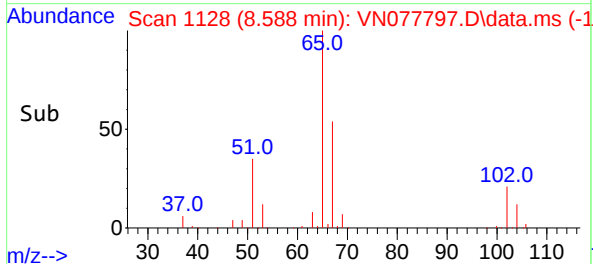
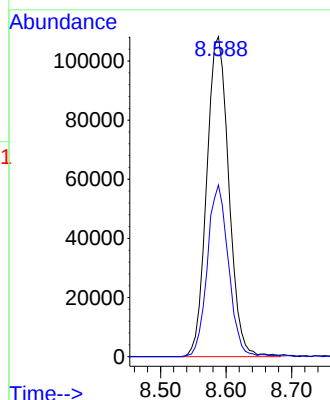
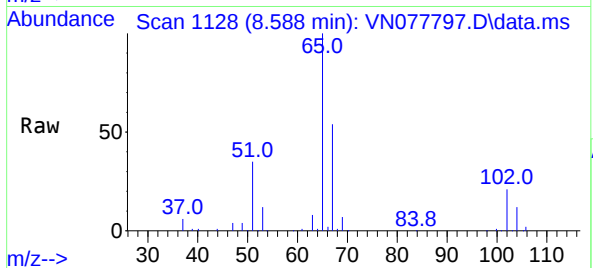




#33
1,2-Dichloroethane-d4
Concen: 45.191 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

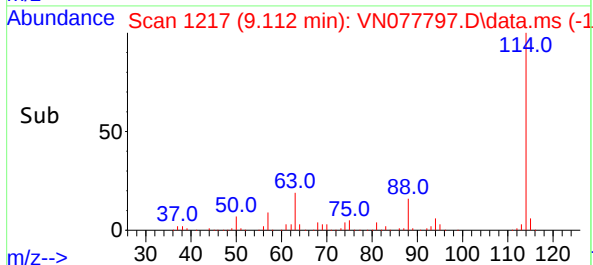
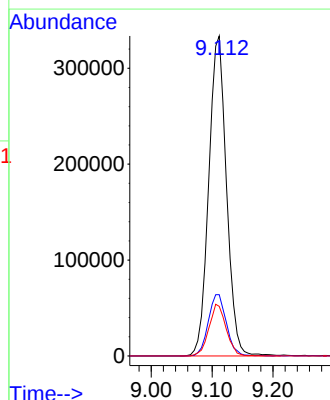
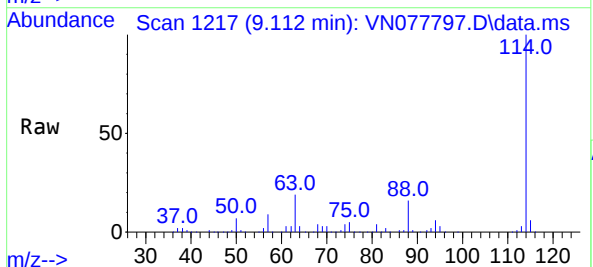
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

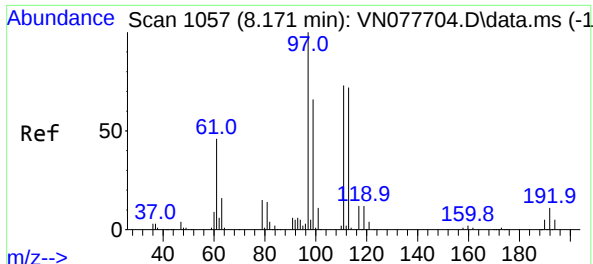
Tgt Ion: 65 Resp: 253507
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 114 Resp: 675351
Ion Ratio Lower Upper
114 100
63 19.1 0.0 36.4
88 15.5 0.0 30.6

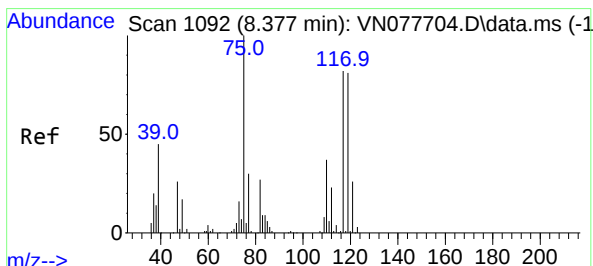
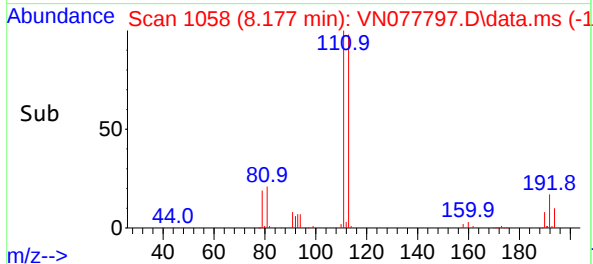
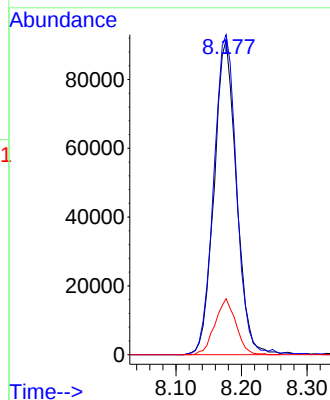
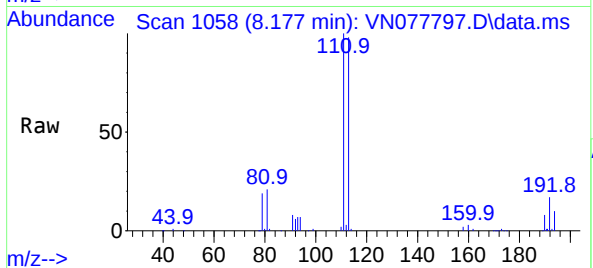




#35
Dibromofluoromethane
Concen: 49.053 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

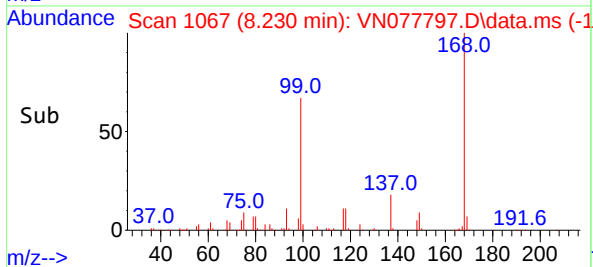
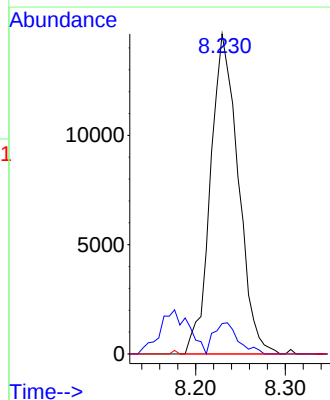
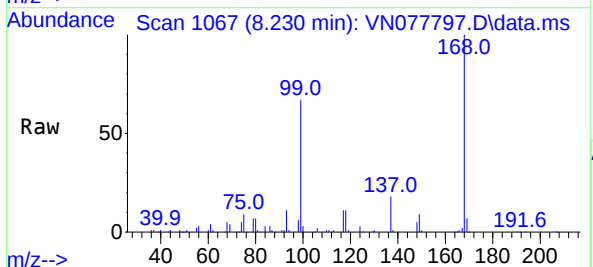
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

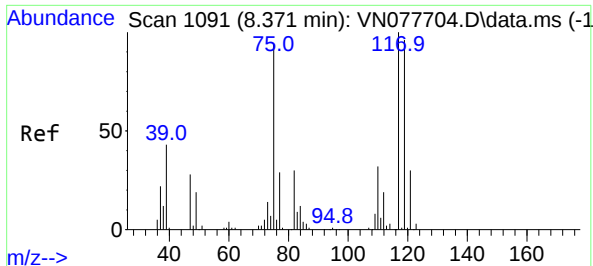
Tgt Ion:113 Resp: 216023
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 16.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.888 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 75 Resp: 31486
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.0 25.0 37.4#

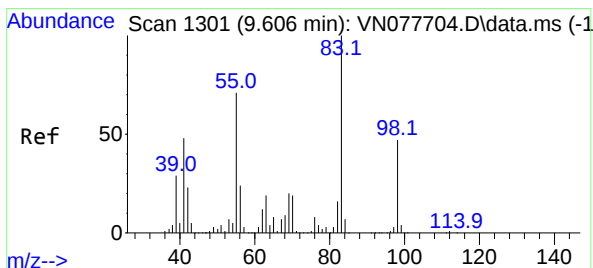
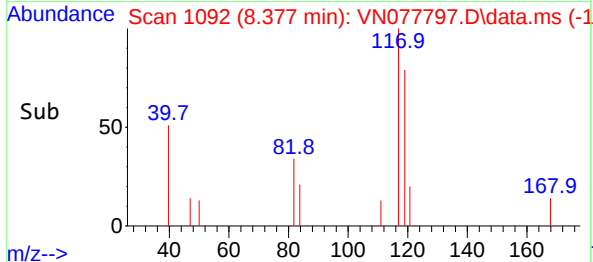
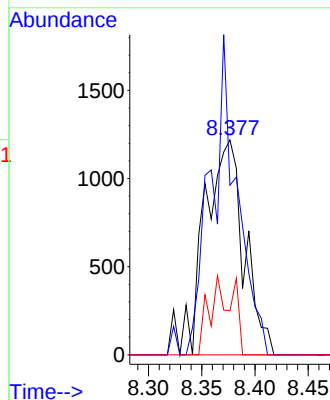
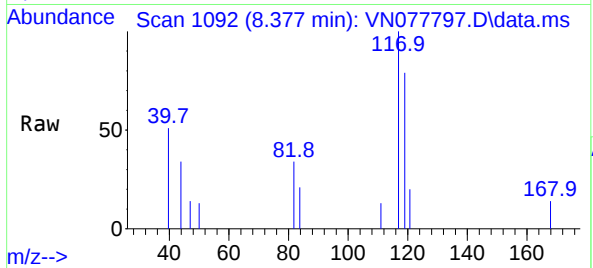




#38
Carbon Tetrachloride
Concen: 0.478 ug/l
RT: 8.377 min Scan# 110
Delta R.T. 0.006 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

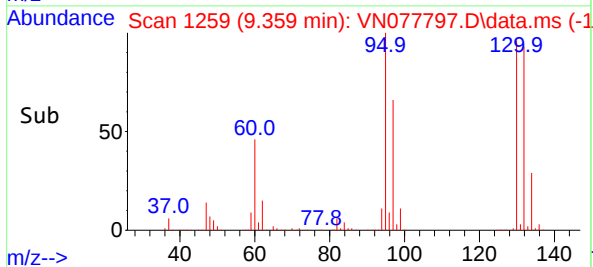
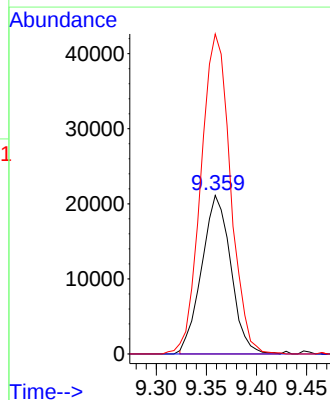
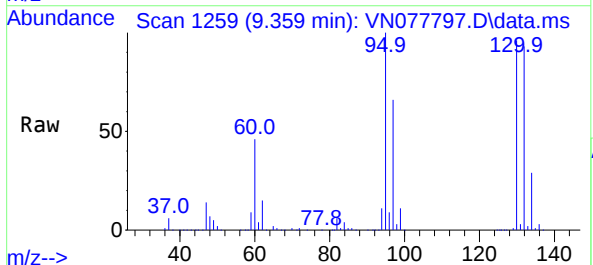
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

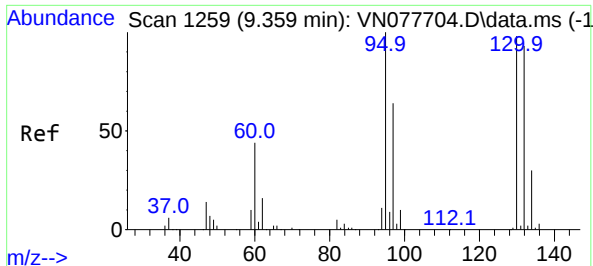
Tgt Ion:117 Resp: 3110
Ion Ratio Lower Upper
117 100
119 78.9 77.3 115.9
121 20.4 23.3 34.9#



#39
Methylcyclohexane
Concen: 5.409 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.247 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 83 Resp: 42652
Ion Ratio Lower Upper
83 100
55 0.0 49.1 73.7#
98 201.0 40.6 61.0#

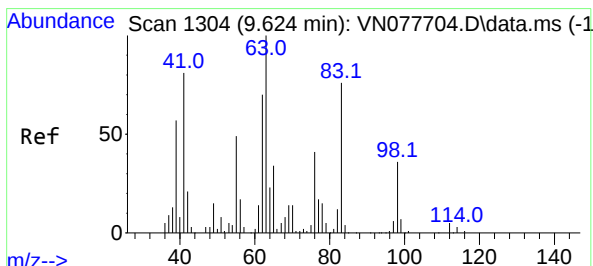
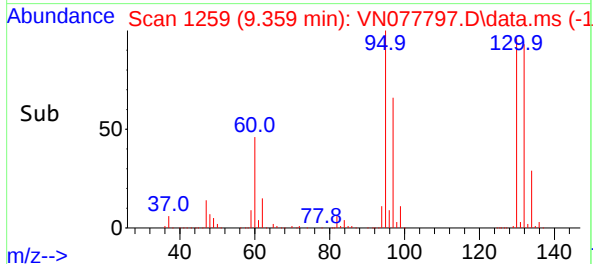
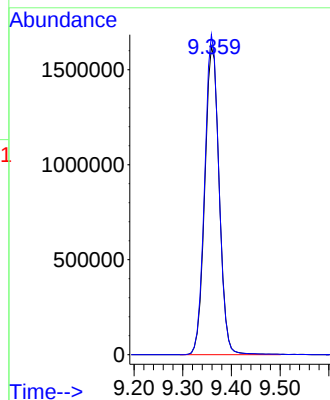
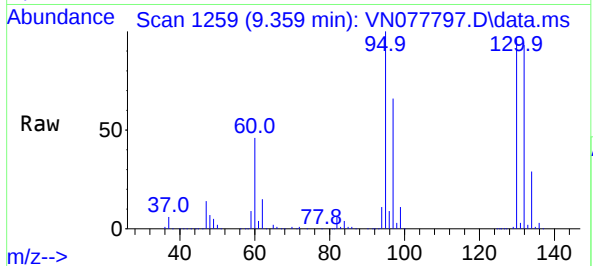




#44
Trichloroethene
Concen: 690.425 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

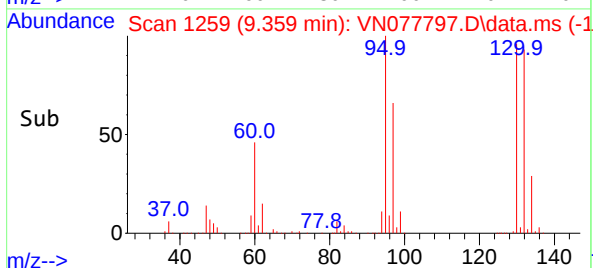
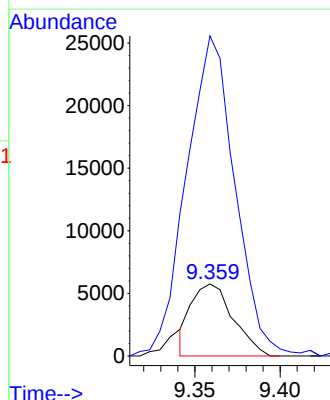
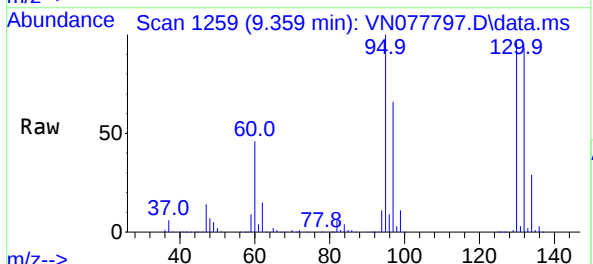
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

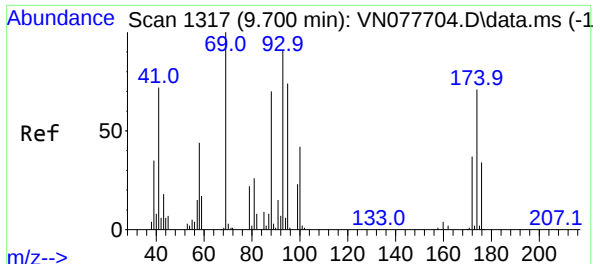
Tgt Ion:130 Resp: 3323053
Ion Ratio Lower Upper
130 100
95 103.9 0.0 204.6



#45
1,2-Dichloropropane
Concen: 2.021 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.265 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 63 Resp: 9800
Ion Ratio Lower Upper
63 100
65 434.5 23.9 35.9#

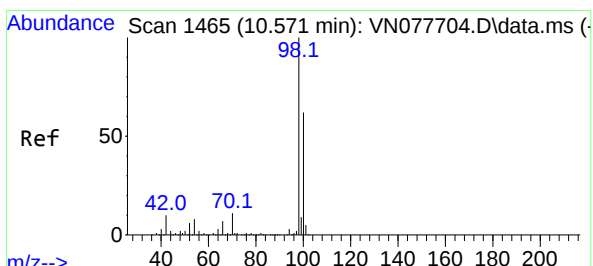
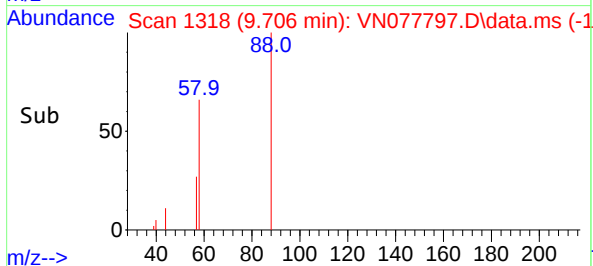
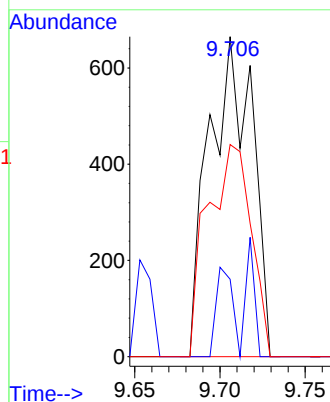
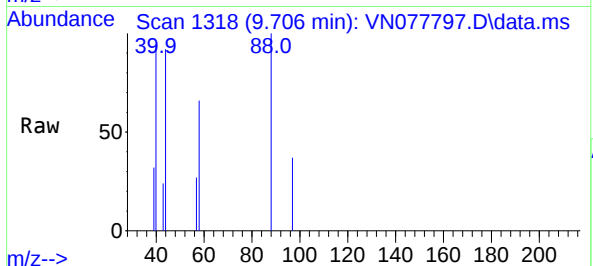




#49
1,4-Dioxane
Concen: 13.897 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

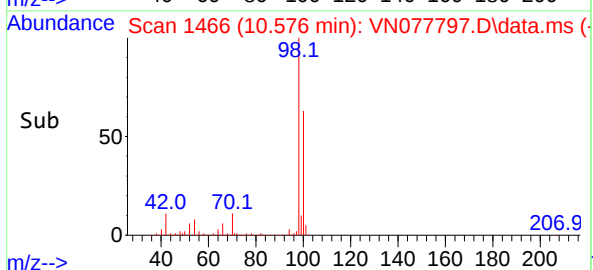
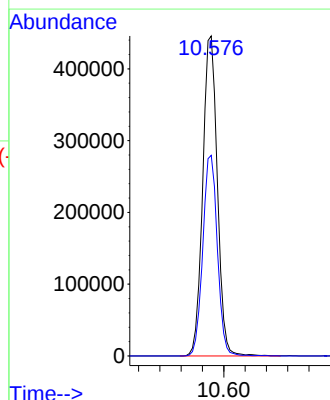
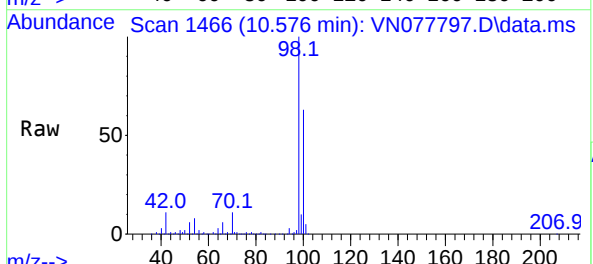
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

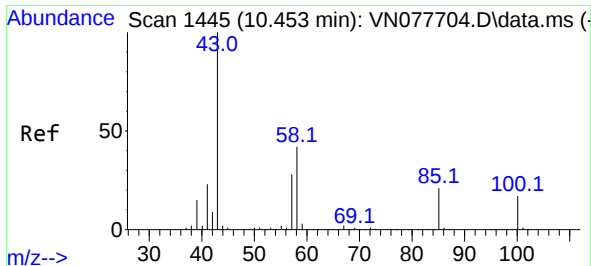
Tgt Ion: 88 Resp: 1167
Ion Ratio Lower Upper
88 100
43 10.5 17.0 25.6#
58 67.4 47.0 70.4



#50
Toluene-d8
Concen: 50.059 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 98 Resp: 848549
Ion Ratio Lower Upper
98 100
100 62.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.646 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.124 min

Lab File: VN077797.D

Acq: 22 May 2023 18:17

Instrument :

MSVOA_N

ClientSampleId :

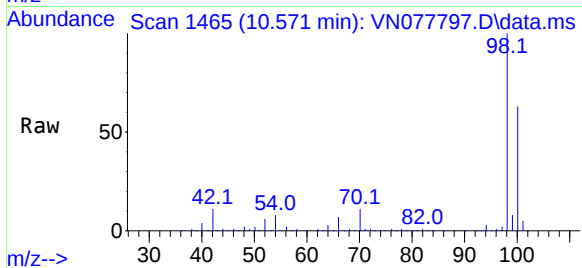
RW4-20230519

Tgt Ion: 43 Resp: 3602

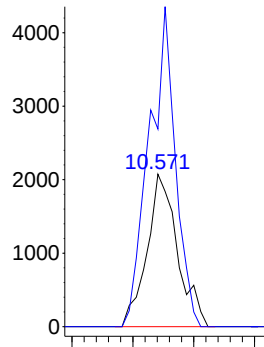
Ion Ratio Lower Upper

43 100

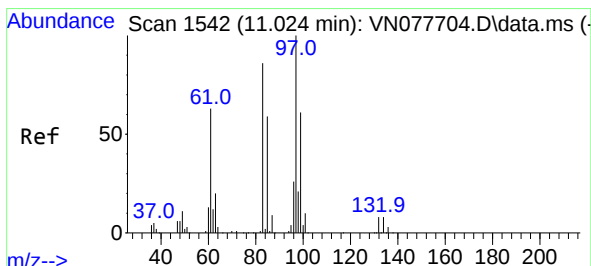
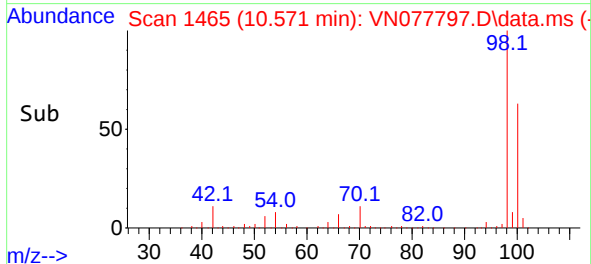
58 181.2 36.6 54.8#



Abundance



Time-->



#55

1,1,2-Trichloroethane

Concen: 0.319 ug/l

RT: 11.035 min Scan# 1544

Delta R.T. 0.012 min

Lab File: VN077797.D

Acq: 22 May 2023 18:17

Tgt Ion: 97 Resp: 1501

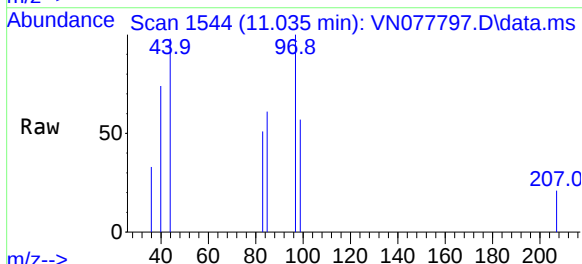
Ion Ratio Lower Upper

97 100

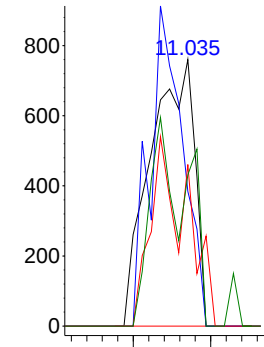
83 50.5 65.1 97.7#

85 60.7 43.4 65.2

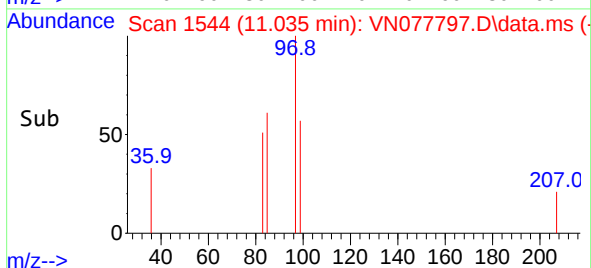
99 56.7 49.2 73.8

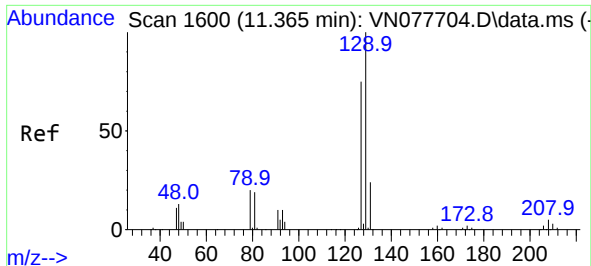


Abundance



Time-->

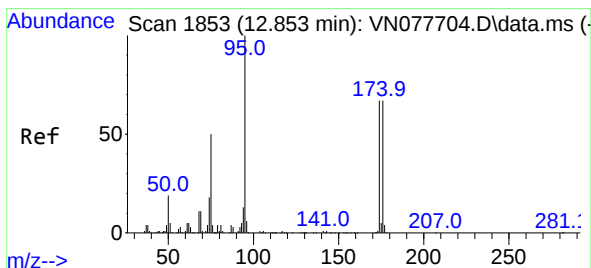
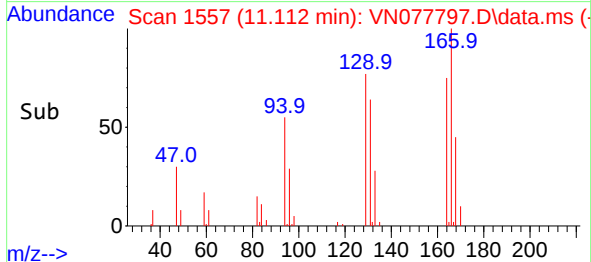
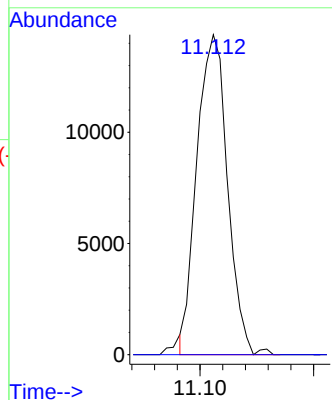
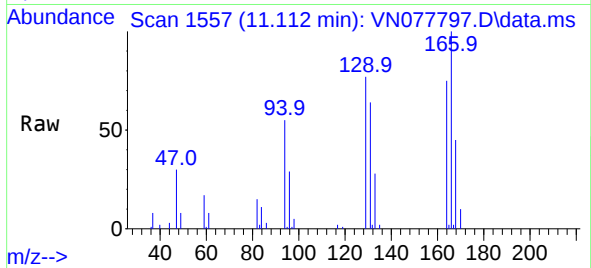




#60
Dibromochloromethane
Concen: 5.550 ug/l
RT: 11.112 min Scan# 1112
Delta R.T. -0.253 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

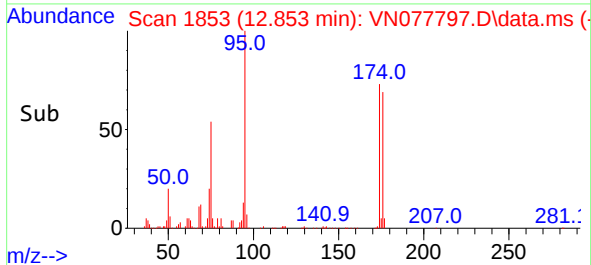
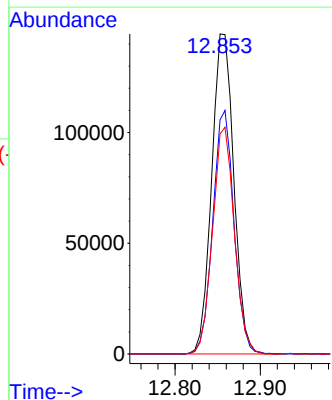
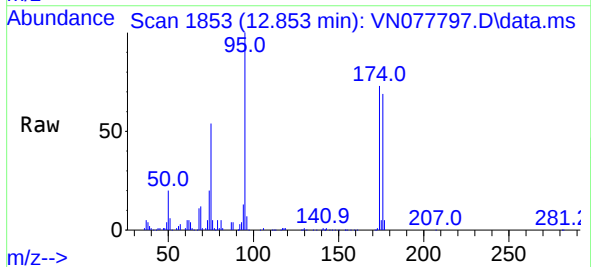
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

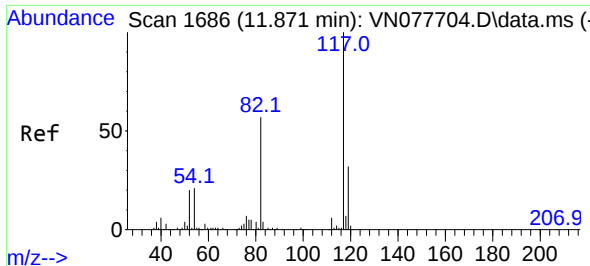
Tgt Ion:129 Resp: 26920
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 43.529 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

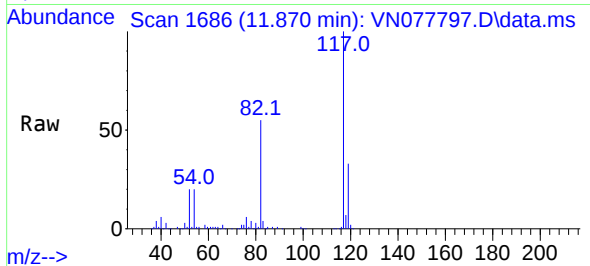
Tgt Ion: 95 Resp: 260597
Ion Ratio Lower Upper
95 100
174 72.9 0.0 143.8
176 69.5 0.0 135.8



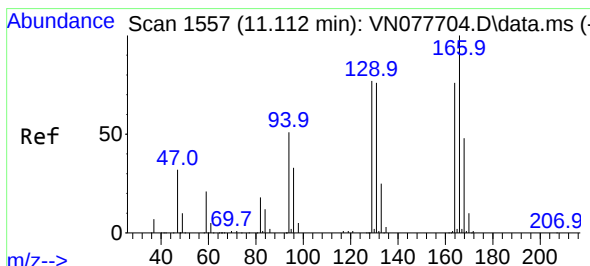
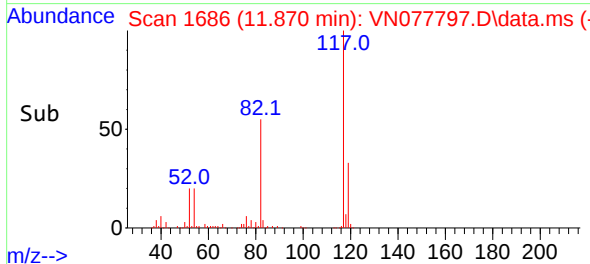
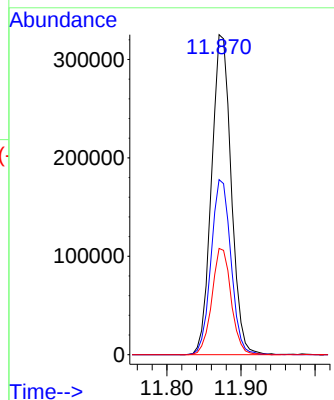


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

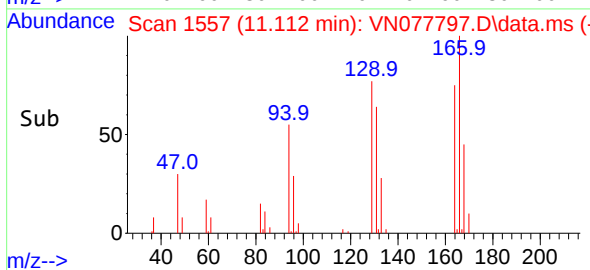
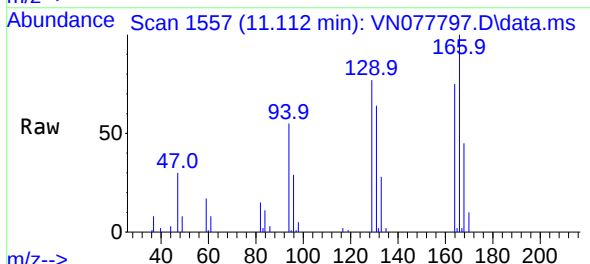
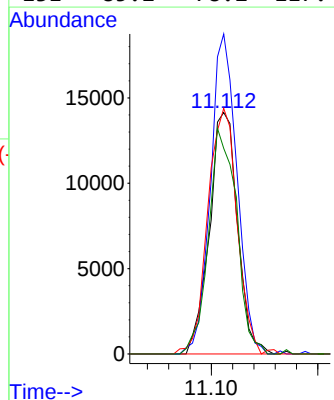


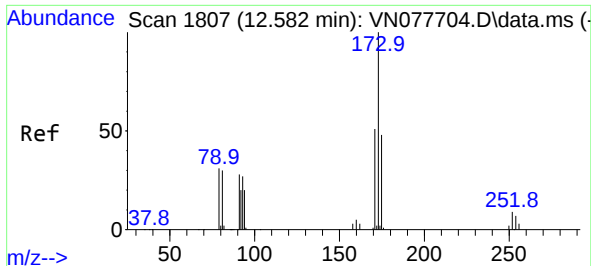
Tgt Ion:117 Resp: 599432
Ion Ratio Lower Upper
117 100
82 54.7 44.0 66.0
119 33.2 25.6 38.4



#64
Tetrachloroethene
Concen: 6.177 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion:164 Resp: 25893
Ion Ratio Lower Upper
164 100
166 132.5 101.4 152.0
129 101.7 82.4 123.6
131 85.2 78.2 117.4

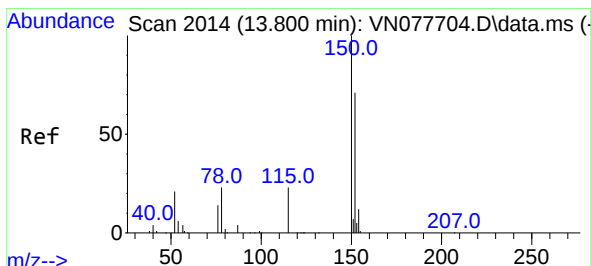
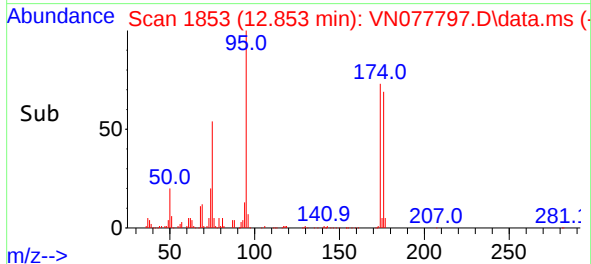
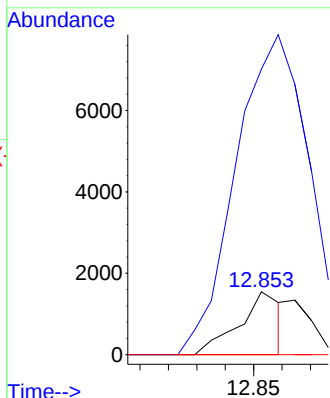
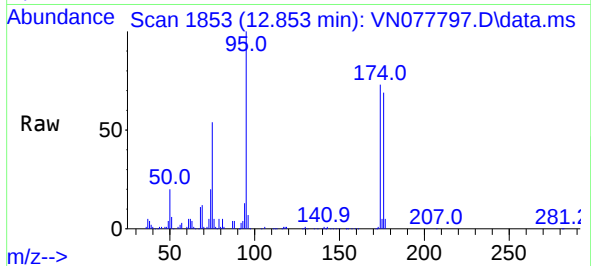




#71
Bromoform
Concen: 0.530 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

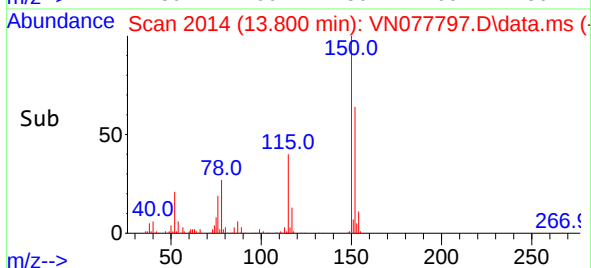
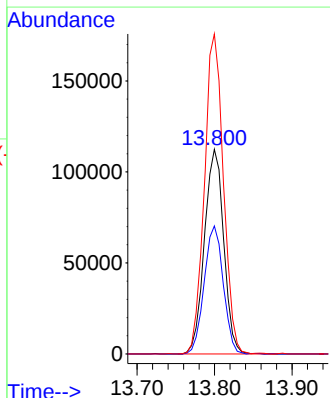
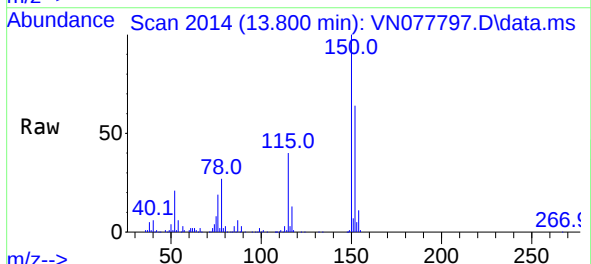
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

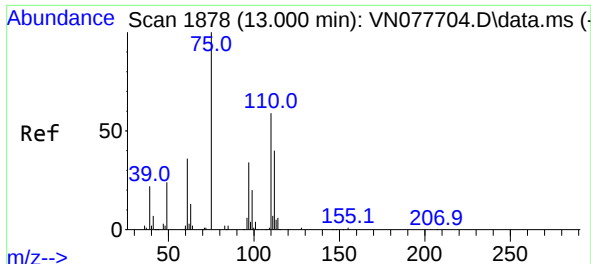
Tgt Ion:173 Resp: 1586
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion:152 Resp: 194282
Ion Ratio Lower Upper
152 100
115 61.9 32.3 96.8
150 153.8 0.0 355.8

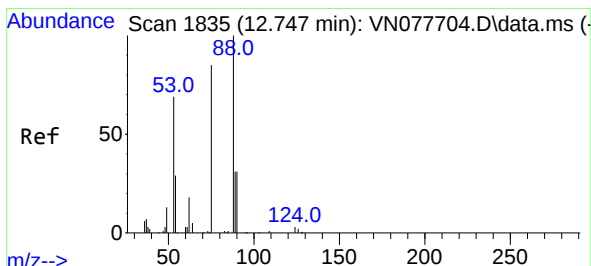
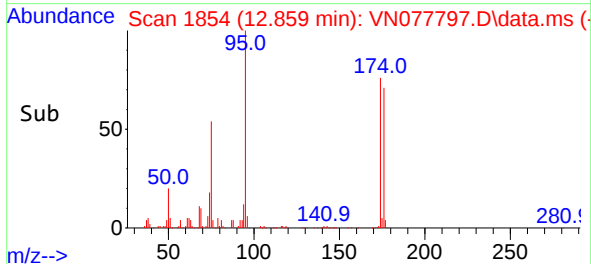
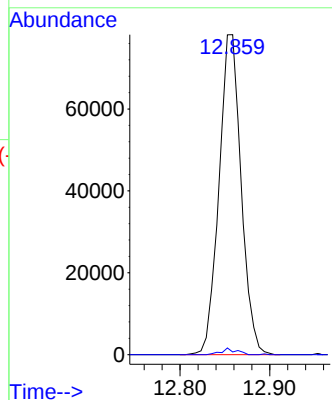
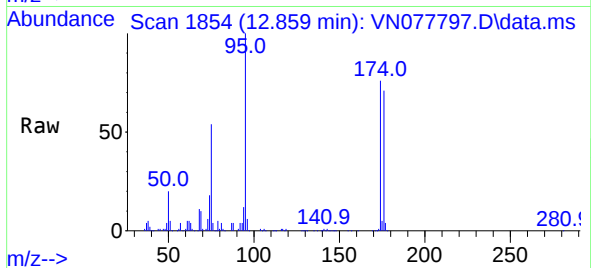




#76
1,2,3-Trichloropropane
Concen: 27.557 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Instrument :
MSVOA_N
ClientSampleId :
RW4-20230519

Tgt Ion: 75 Resp: 134078
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.086 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077797.D
Acq: 22 May 2023 18:17

Tgt Ion: 75 Resp: 134078
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

