

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100121\
 Data File : VN068780.D
 Acq On : 1 Oct 2021 13:56
 Operator : JC/MD
 Sample : M3915-18 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW4-20210922

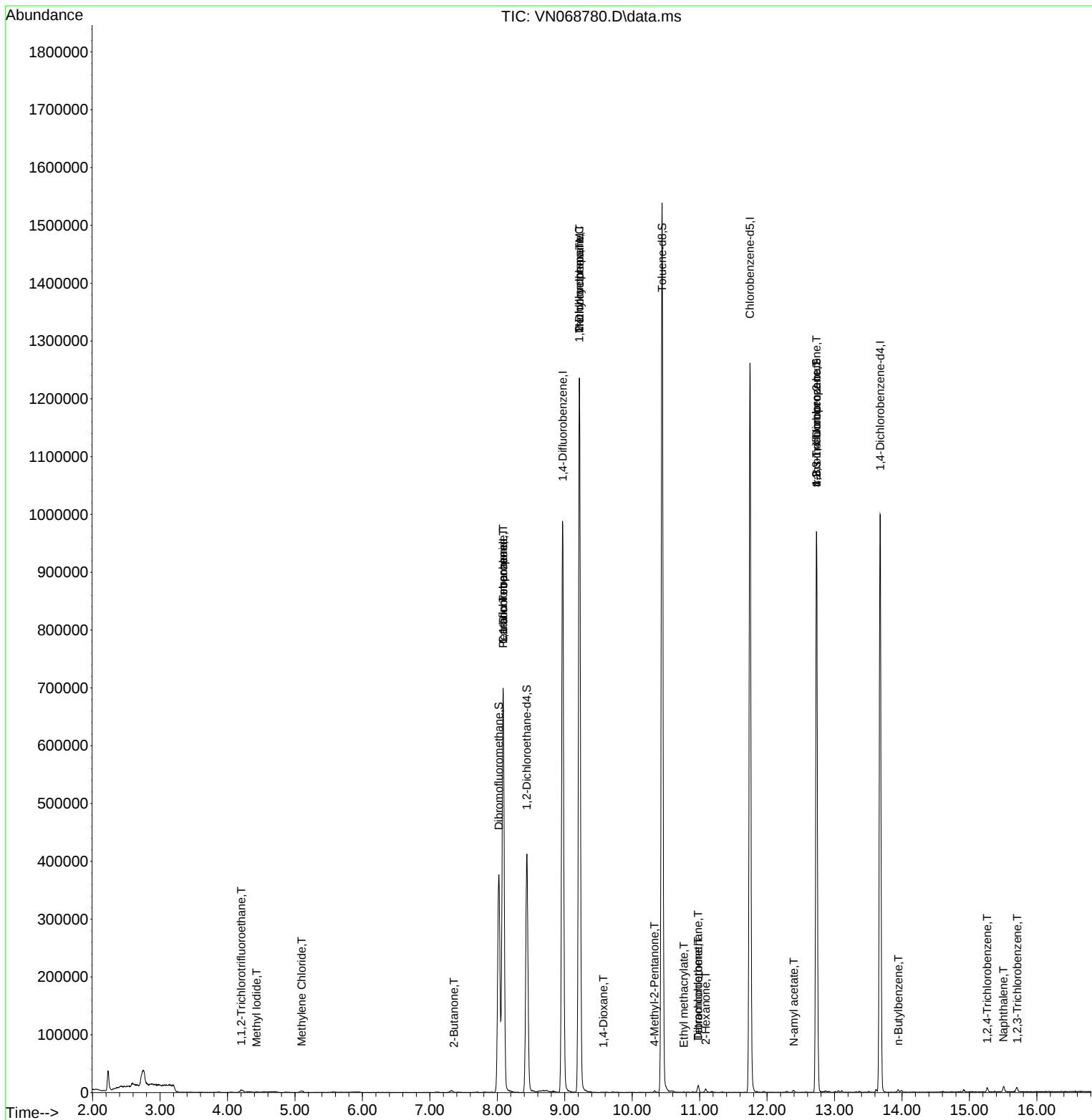
Quant Time: Oct 02 03:58:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092921W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 29 23:31:35 2021
 Response via : Initial Calibration

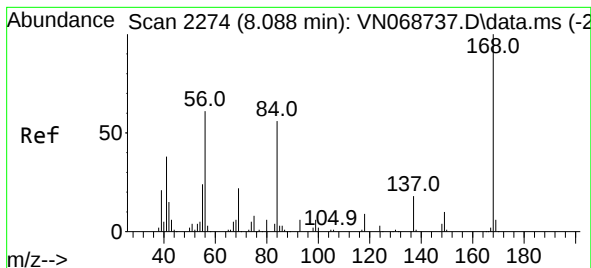
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.088	168	499366	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	863811	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	713538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	253394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	346739	49.835	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.660%
35) Dibromofluoromethane	8.024	113	270616	50.422	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	100.840%
50) Toluene-d8	10.443	98	1064756	54.290	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	108.580%
62) 4-Bromofluorobenzene	12.734	95	309243	45.378	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.760%
Target Compounds						
						Qvalue
3) Chloromethane	2.301	50	951	Below Cal		97
5) Bromomethane	2.848	94	352	Below Cal	#	66
6) Chloroethane	3.027	64	123	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	4.205	101	1200	0.219	ug/l #	39
10) Methyl Iodide	4.430	142	658	1.479	ug/l #	55
13) Acrolein	4.041	56	53	Below Cal	#	14
16) Acetone	4.307	43	1730	Below Cal		96
17) Carbon Disulfide	4.543	76	912	Below Cal	#	74
20) Methylene Chloride	5.101	84	1905	0.315	ug/l #	71
25) 2-Butanone	7.356	43	822	0.210	ug/l #	51
31) Cyclohexane	8.086	56	13757	Below Cal	#	24
36) 1,1-Dichloropropene	8.086	75	45187	5.562	ug/l #	52
38) Carbon Tetrachloride	8.086	117	55379	5.738	ug/l #	16
39) Methylcyclohexane	9.217	83	5562	0.591	ug/l #	1
44) Trichloroethene	9.217	130	423639	64.158	ug/l	84
45) 1,2-Dichloropropane	9.215	63	1382	0.217	ug/l #	1
49) 1,4-Dioxane	9.574	88	201	2.090	ug/l #	20
51) 4-Methyl-2-Pentanone	10.331	43	2292	0.267	ug/l #	77
56) Ethyl methacrylate	10.768	69	316	1.853	ug/l #	66
59) 2-Hexanone	11.089	43	4692	0.794	ug/l	87
60) Dibromochloromethane	10.980	129	2683	0.363	ug/l #	11
64) Tetrachloroethene	10.980	164	2450	0.460	ug/l #	87
74) N-amyl acetate	12.396	43	2314	0.317	ug/l #	92
76) 1,2,3-Trichloropropane	12.734	75	179202	31.800	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	179202	92.444	ug/l #	6
89) n-Butylbenzene	13.946	91	3261	0.202	ug/l	87
93) 1,2,4-Trichlorobenzene	15.265	180	2718	0.650	ug/l #	87
95) Naphthalene	15.504	128	9625	2.229	ug/l	100
96) 1,2,3-Trichlorobenzene	15.708	180	2557	0.638	ug/l	77

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

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Response via : Initial Calibration

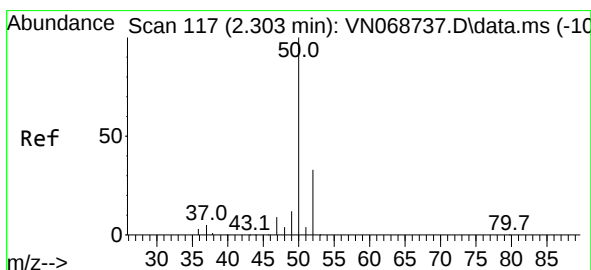
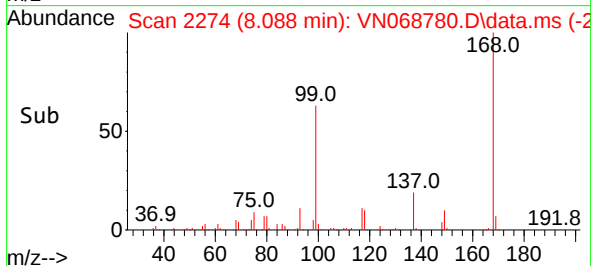
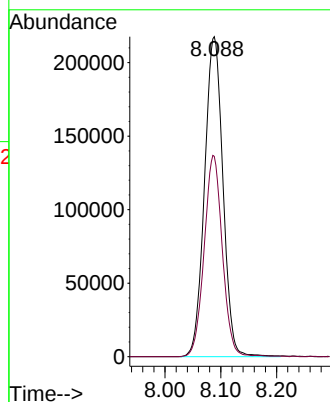
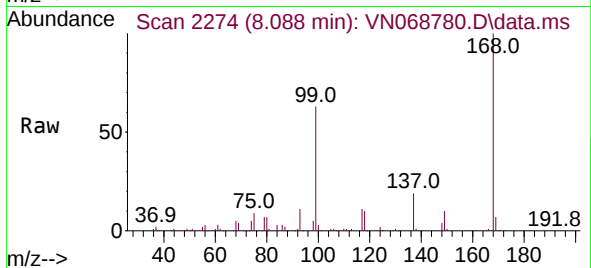




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

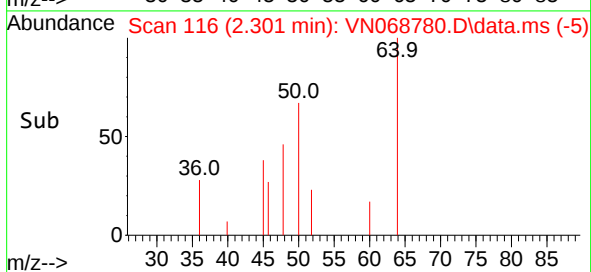
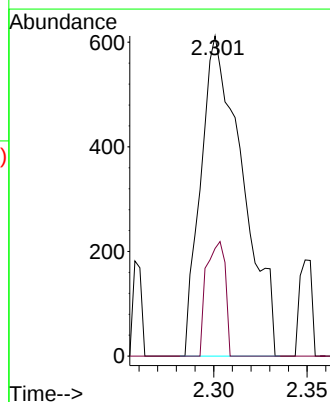
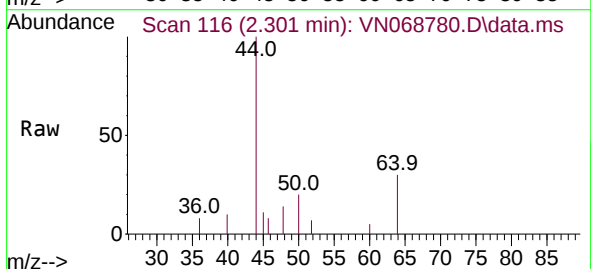
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

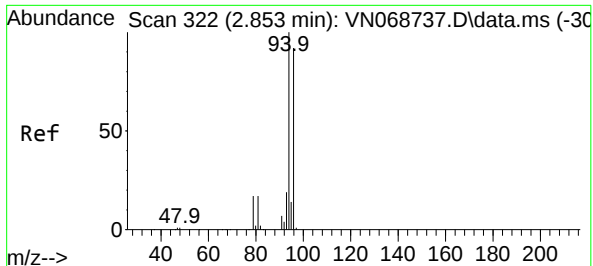
Tgt Ion:168 Resp: 499366
Ion Ratio Lower Upper
168 100
99 62.5 62.9 94.3#



#3
Chloromethane
Concen: Below Cal
RT: 2.301 min Scan# 116
Delta R.T. -0.002 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 50 Resp: 951
Ion Ratio Lower Upper
50 100
52 33.7 25.6 38.4

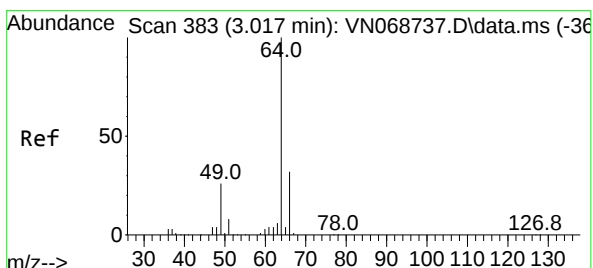
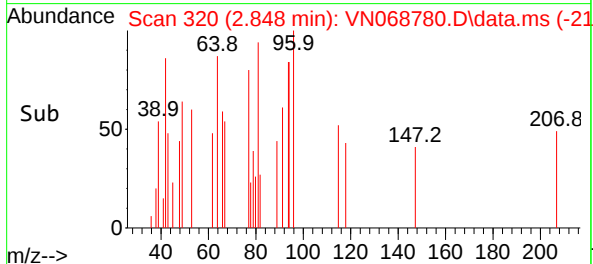
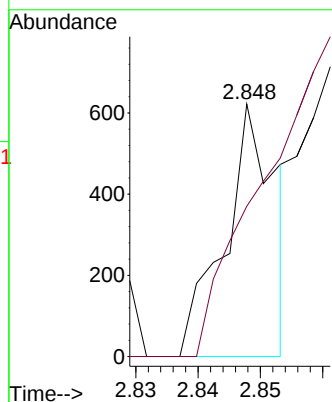
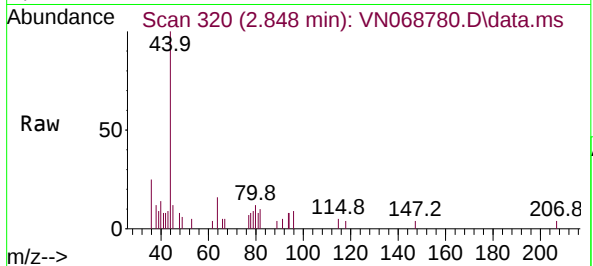




#5
Bromomethane
Concen: Below Cal
RT: 2.848 min Scan# 320
Delta R.T. -0.005 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

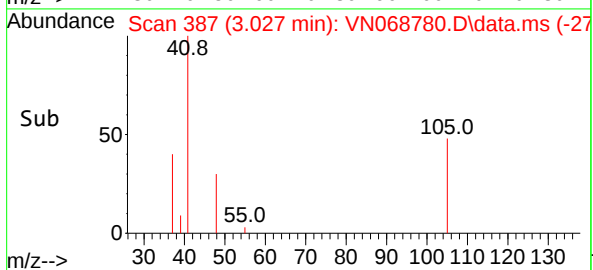
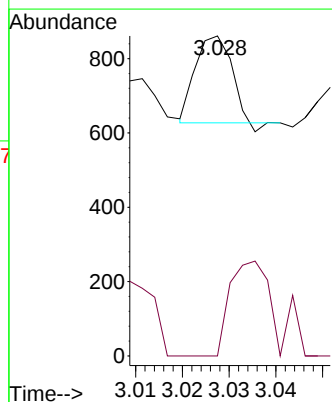
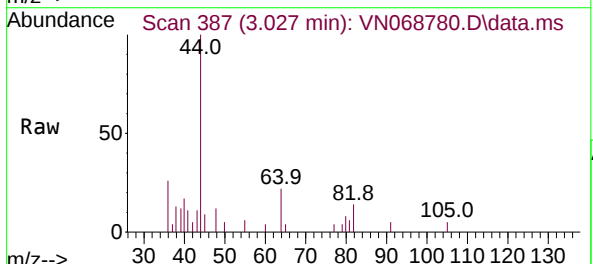
Instrument :
MSVOA_N
ClientSampled :
RW4-20210922

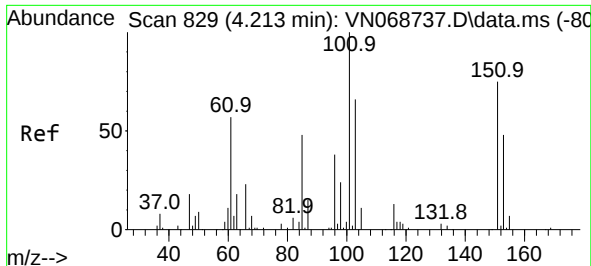
Tgt Ion: 94 Resp: 352
Ion Ratio Lower Upper
94 100
96 59.5 73.7 110.5#



#6
Chloroethane
Concen: Below Cal
RT: 3.027 min Scan# 387
Delta R.T. 0.010 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 64 Resp: 123
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#

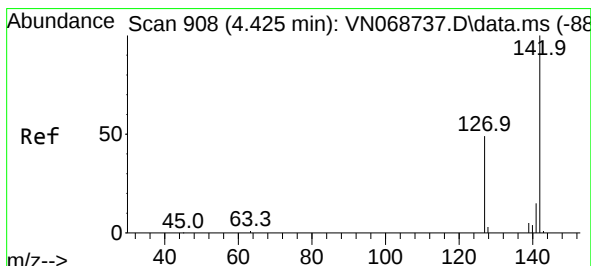
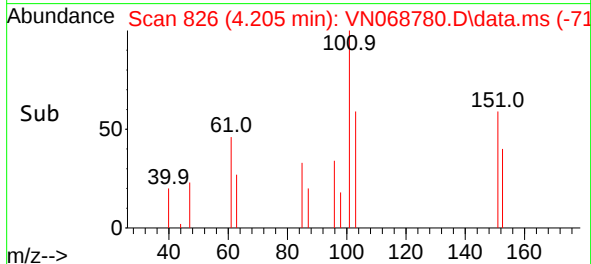
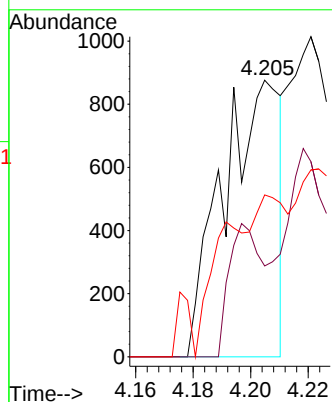
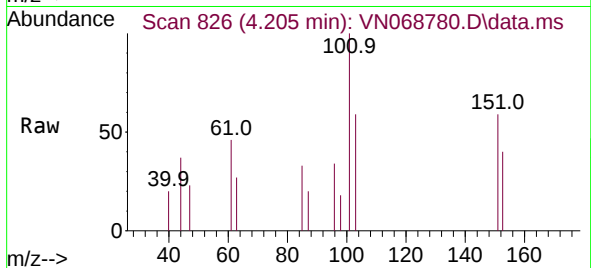




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.219 ug/l
RT: 4.205 min Scan# 826
Delta R.T. -0.008 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

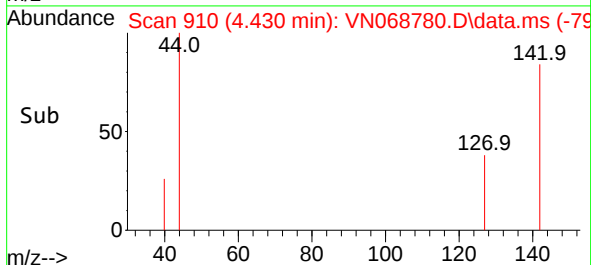
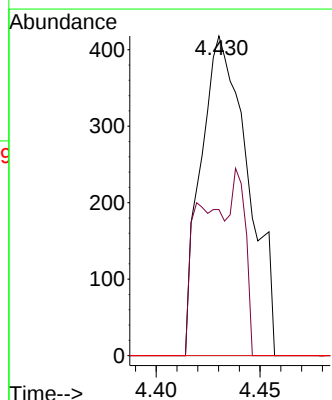
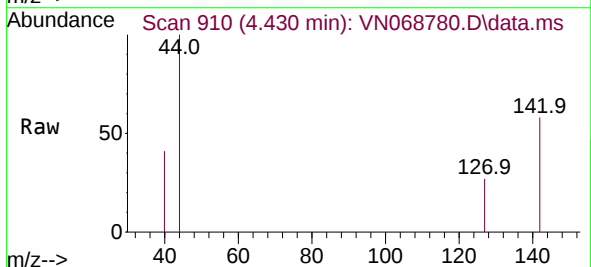
Instrument :
MSVOA_N
ClientSampled :
RW4-20210922

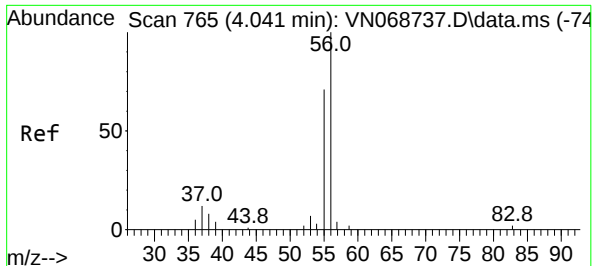
Tgt Ion:101 Resp: 1200
Ion Ratio Lower Upper
101 100
85 0.0 39.6 59.4#
151 25.8 54.1 81.1#



#10
Methyl Iodide
Concen: 1.479 ug/l
RT: 4.430 min Scan# 910
Delta R.T. 0.005 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion:142 Resp: 658
Ion Ratio Lower Upper
142 100
127 19.8 43.1 64.7#
141 0.0 11.4 17.0#

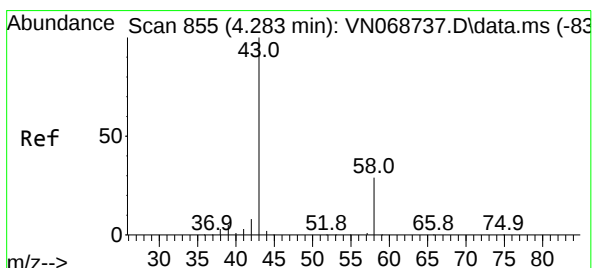
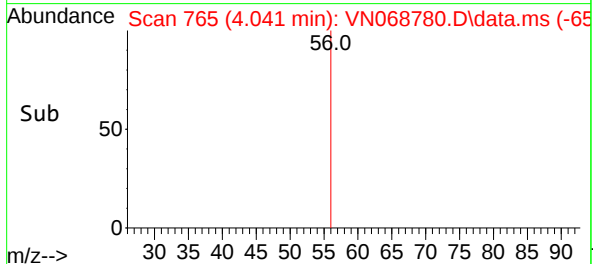
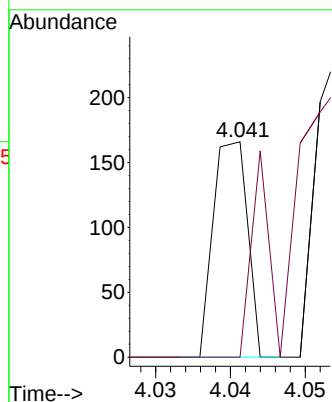
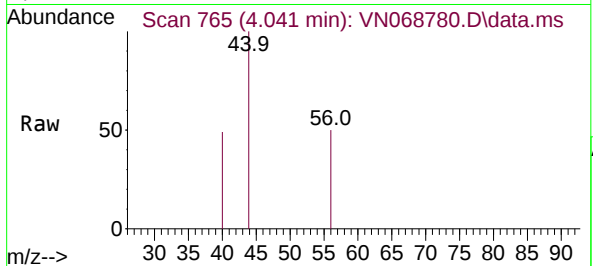




#13
Acrolein
Concen: Below Cal
RT: 4.041 min Scan# 765
Delta R.T. 0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

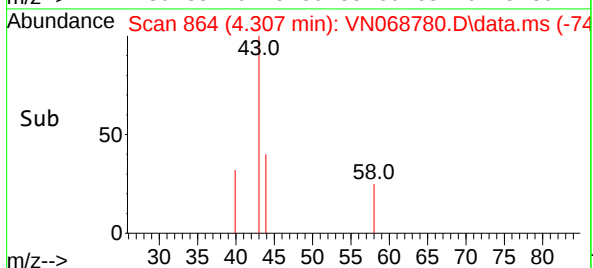
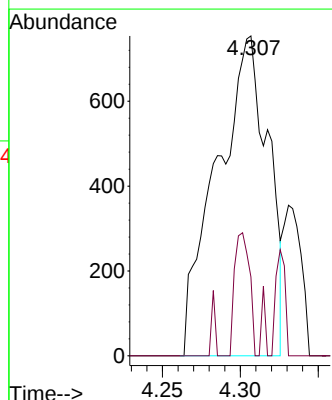
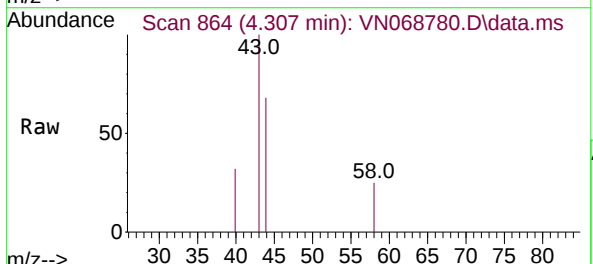
Instrument :
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ClientSampleId :
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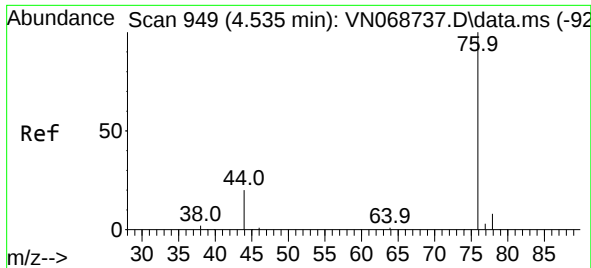
Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: Below Cal
RT: 4.307 min Scan# 864
Delta R.T. 0.024 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 43 Resp: 1730
Ion Ratio Lower Upper
43 100
58 24.7 21.2 31.8

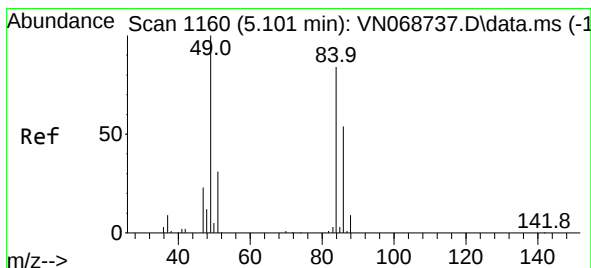
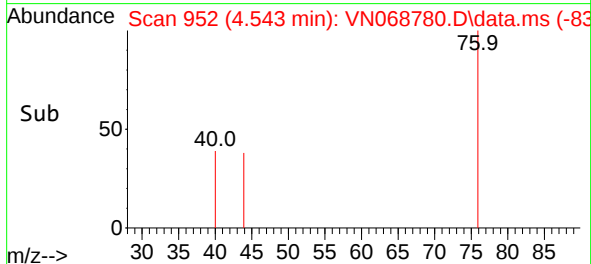
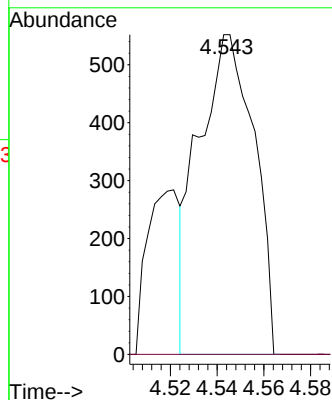
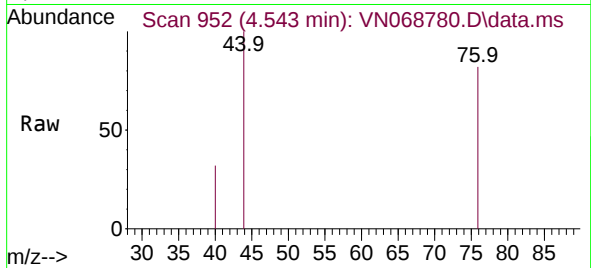




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.543 min Scan# 952
Delta R.T. 0.008 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

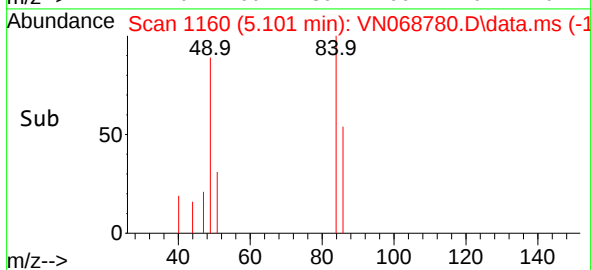
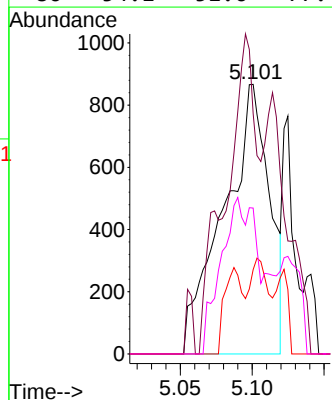
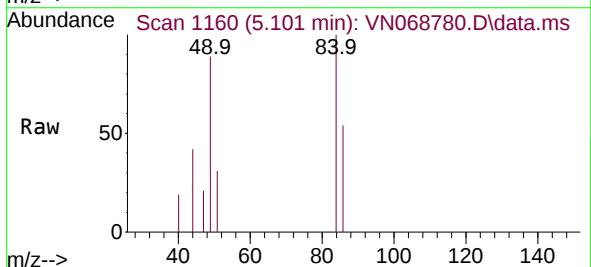
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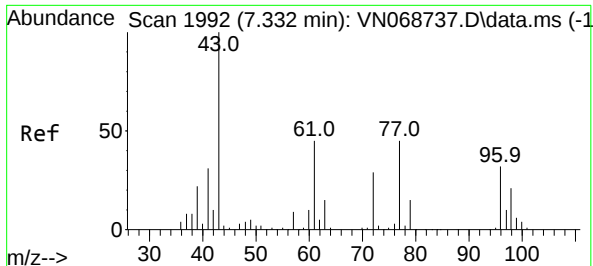
Tgt Ion: 76 Resp: 912
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#20
Methylene Chloride
Concen: 0.315 ug/l
RT: 5.101 min Scan# 1160
Delta R.T. -0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 84 Resp: 1905
Ion Ratio Lower Upper
84 100
49 89.2 110.9 166.3#
51 31.3 32.6 49.0#
86 54.1 51.6 77.4

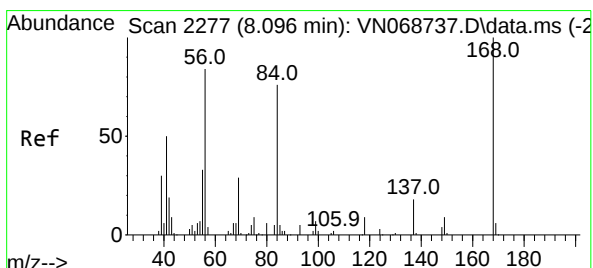
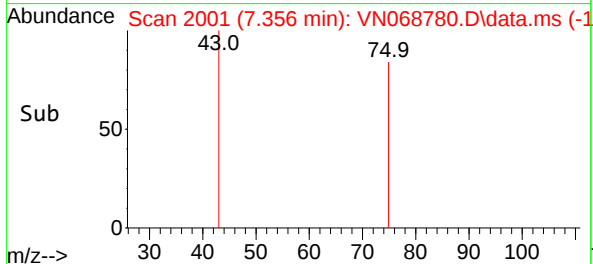
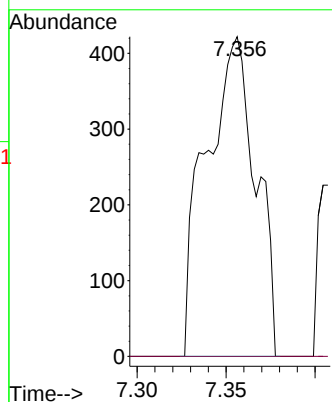
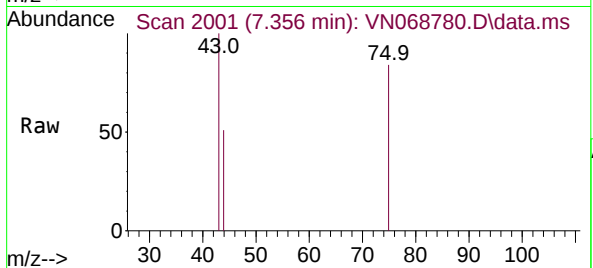




#25
2-Butanone
Concen: 0.210 ug/l
RT: 7.356 min Scan# 2001
Delta R.T. 0.024 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

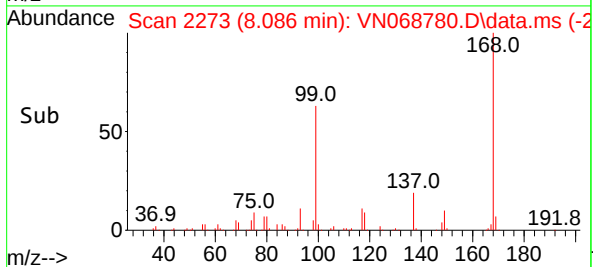
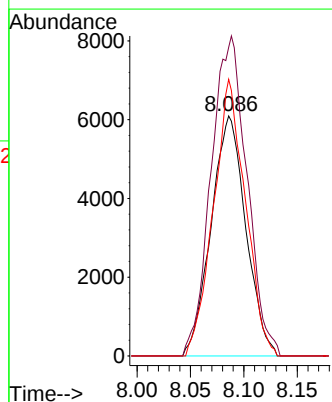
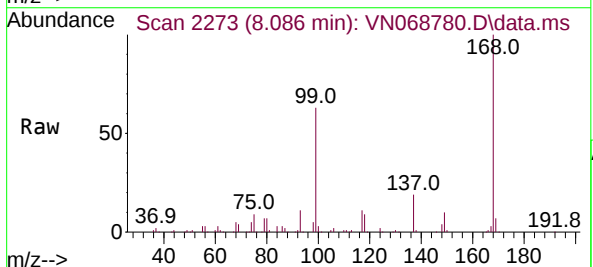
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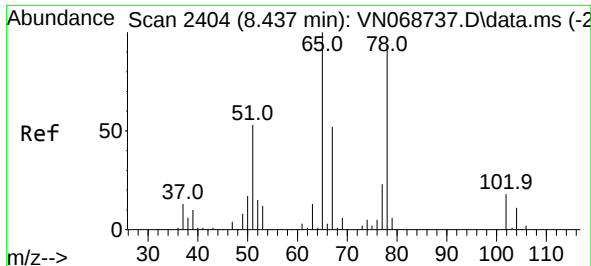
Tgt Ion: 43 Resp: 822
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#31
Cyclohexane
Concen: Below Cal
RT: 8.086 min Scan# 2273
Delta R.T. -0.010 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 56 Resp: 13757
Ion Ratio Lower Upper
56 100
69 128.6 27.3 40.9#
84 115.3 64.9 97.3#

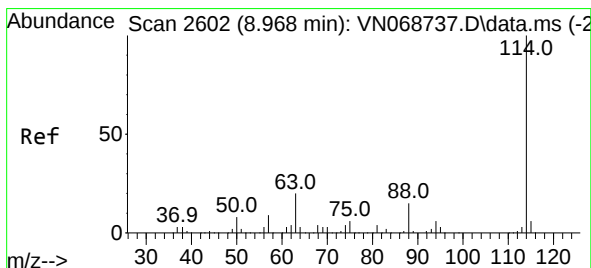
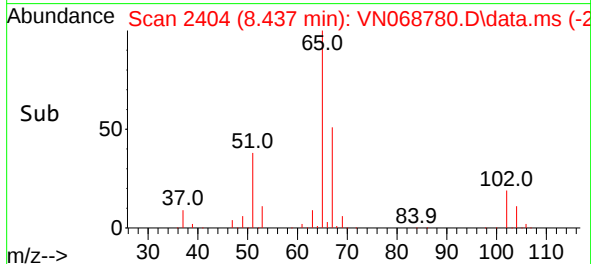
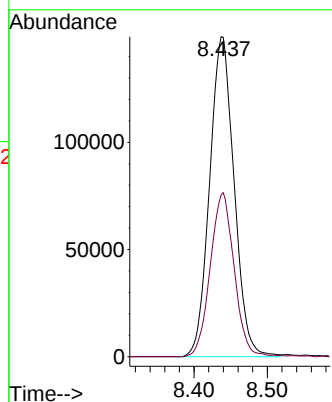
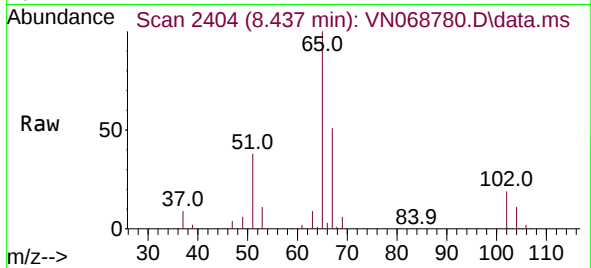




#33
 1,2-Dichloroethane-d4
 Concen: 49.835 ug/l
 RT: 8.437 min Scan# 2404
 Delta R.T. 0.000 min
 Lab File: VN068780.D
 Acq: 1 Oct 2021 13:56

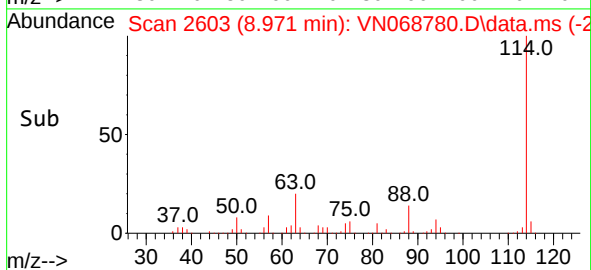
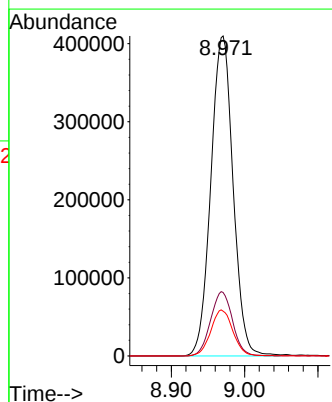
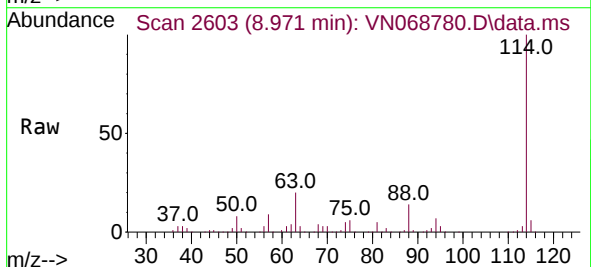
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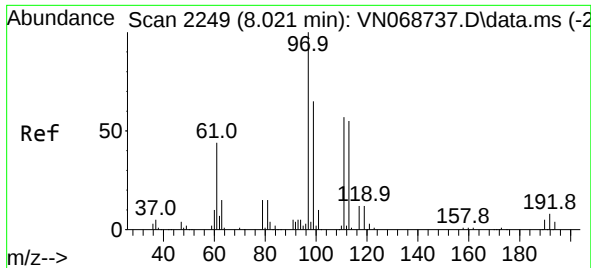
Tgt Ion: 65 Resp: 346739
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068780.D
 Acq: 1 Oct 2021 13:56

Tgt Ion: 114 Resp: 863811
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 49.0
 88 14.0 0.0 36.6

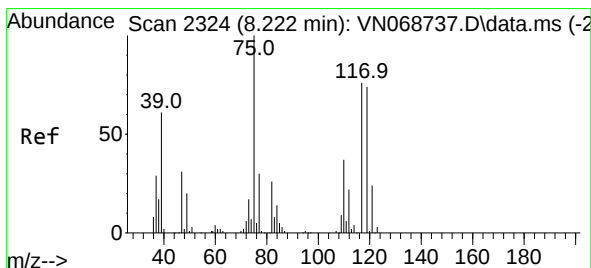
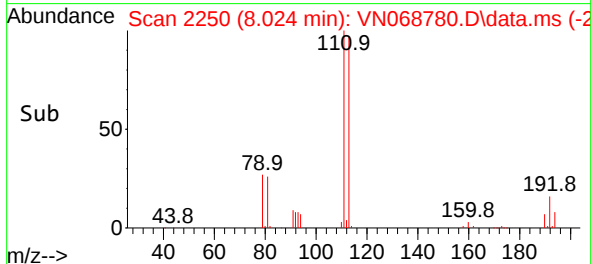
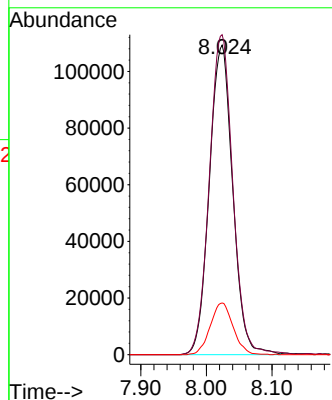
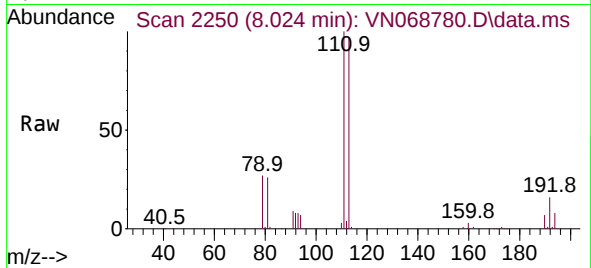




#35
Dibromofluoromethane
Concen: 50.422 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

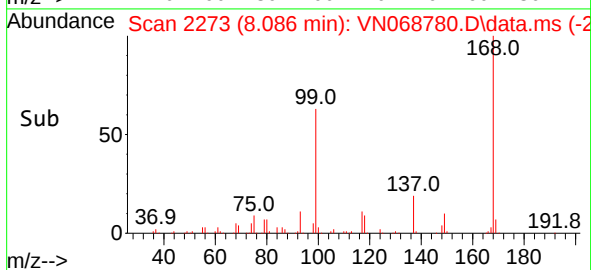
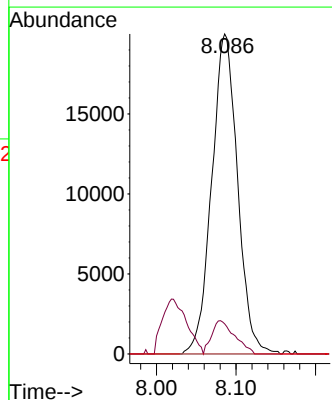
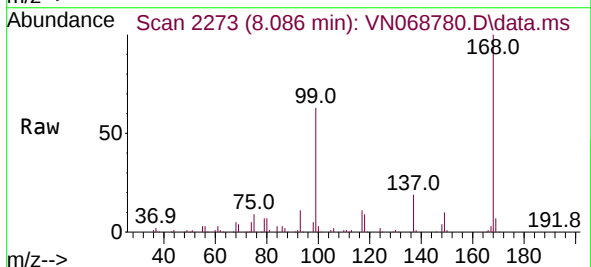
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

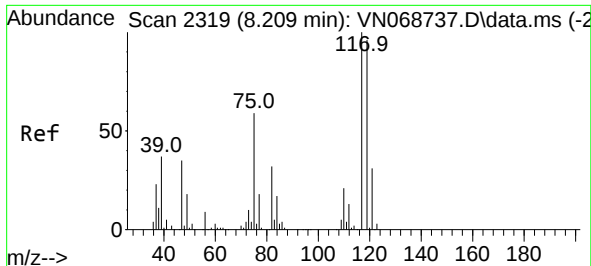
Tgt Ion:113 Resp: 270616
Ion Ratio Lower Upper
113 100
111 104.1 83.8 125.8
192 16.4 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.562 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 75 Resp: 45187
Ion Ratio Lower Upper
75 100
110 9.3 15.7 47.0#
77 0.0 24.6 37.0#

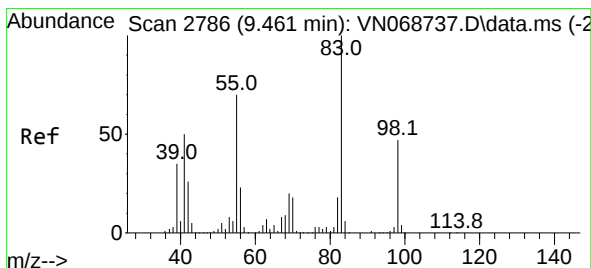
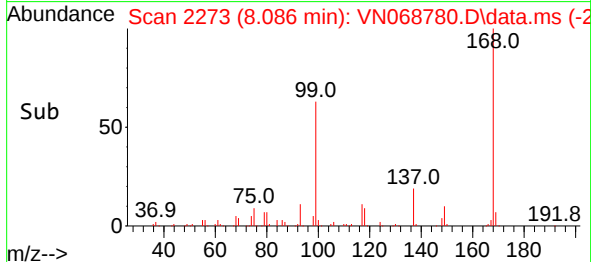
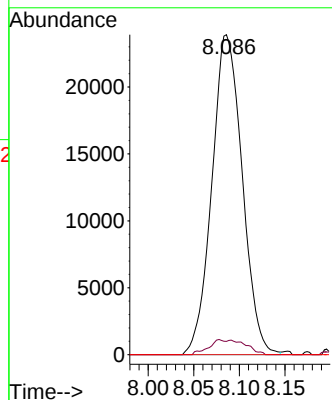
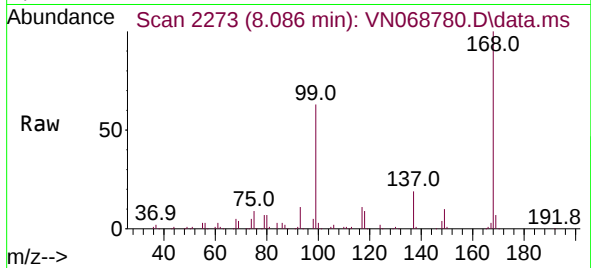




#38
Carbon Tetrachloride
Concen: 5.738 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.123 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

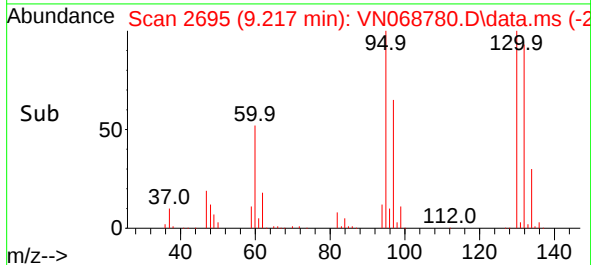
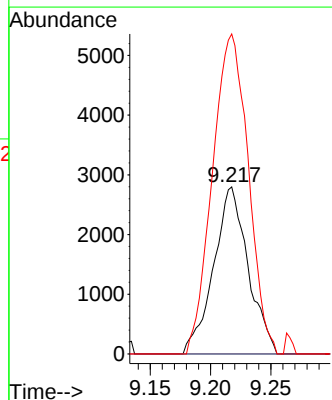
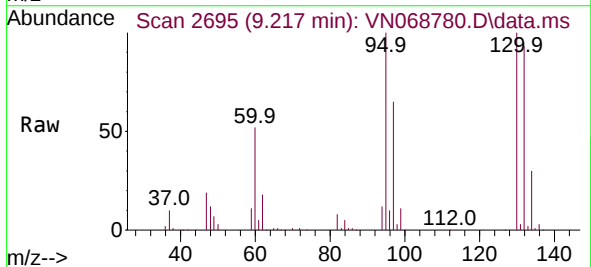
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

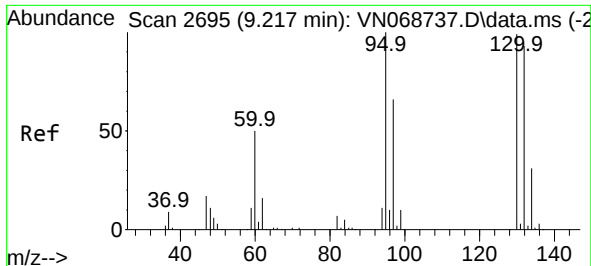
Tgt Ion:117 Resp: 55379
Ion Ratio Lower Upper
117 100
119 4.1 75.4 113.2#
121 0.0 23.5 35.3#



#39
Methylcyclohexane
Concen: 0.591 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. -0.244 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 83 Resp: 5562
Ion Ratio Lower Upper
83 100
55 0.0 66.6 99.8#
98 191.5 35.3 52.9#

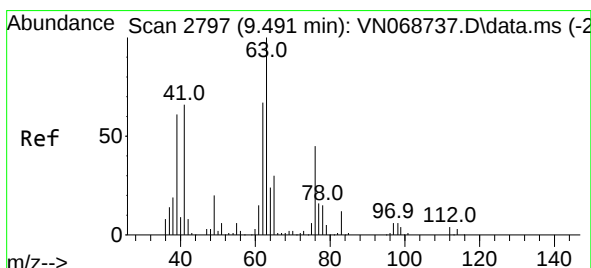
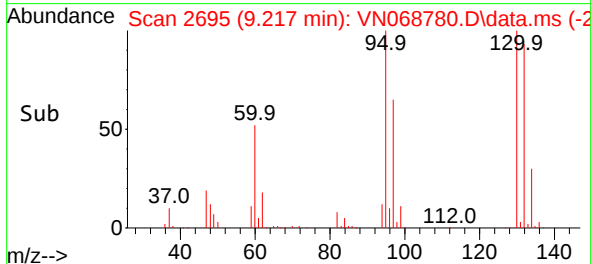
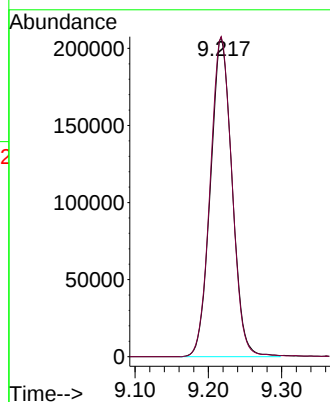
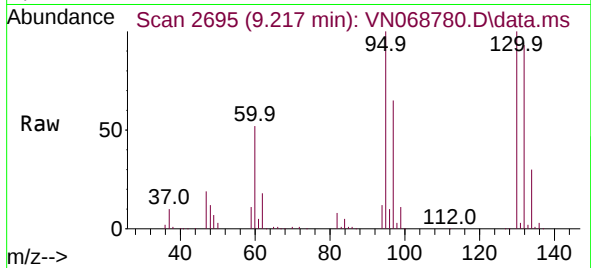




#44
Trichloroethene
Concen: 64.158 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. 0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

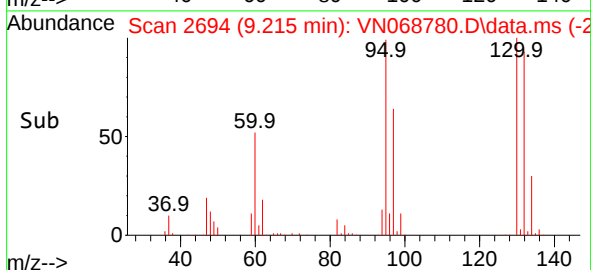
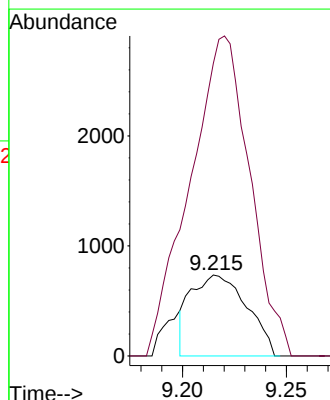
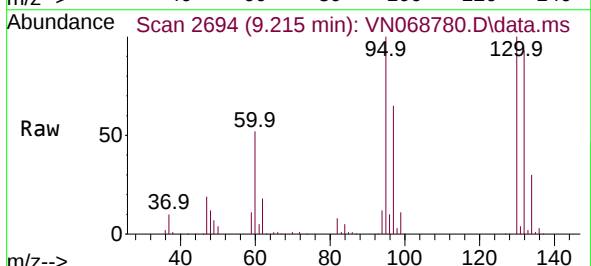
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

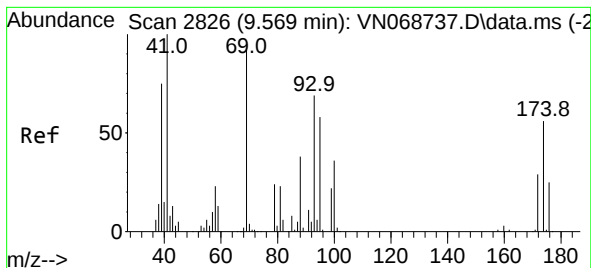
Tgt Ion:130 Resp: 423639
Ion Ratio Lower Upper
130 100
95 100.2 0.0 234.4



#45
1,2-Dichloropropane
Concen: 0.217 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.276 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 63 Resp: 1382
Ion Ratio Lower Upper
63 100
65 292.9 24.3 36.5#

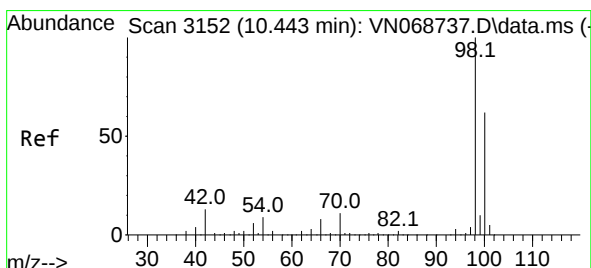
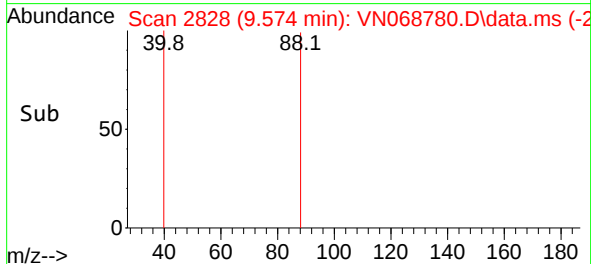
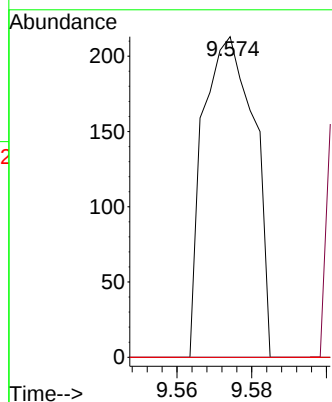
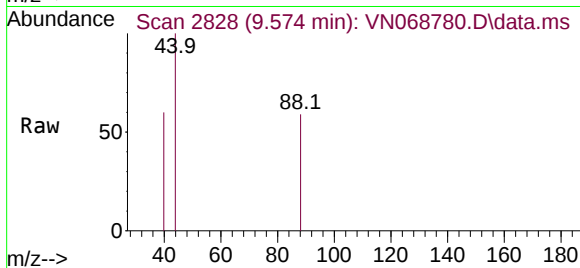




#49
1,4-Dioxane
Concen: 2.090 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.005 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

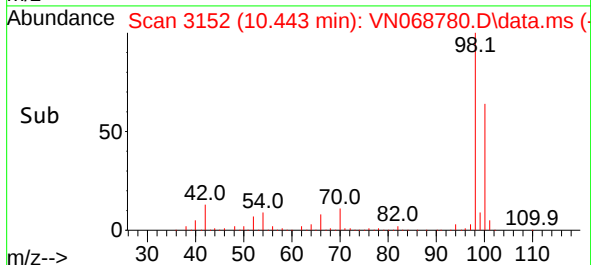
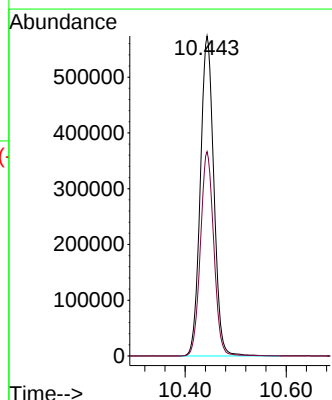
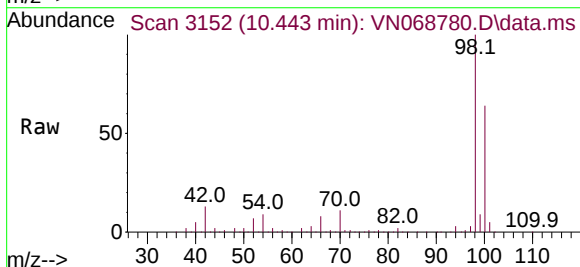
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

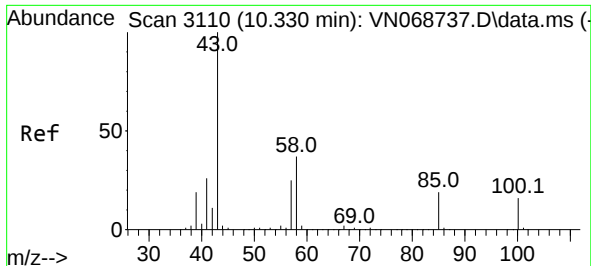
Tgt Ion: 88 Resp: 201
Ion Ratio Lower Upper
88 100
43 0.0 28.8 43.2#
58 0.0 60.4 90.6#



#50
Toluene-d8
Concen: 54.290 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 98 Resp: 1064756
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5

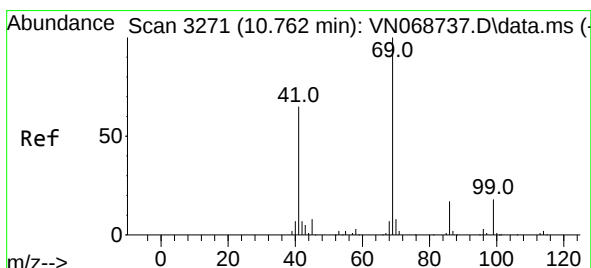
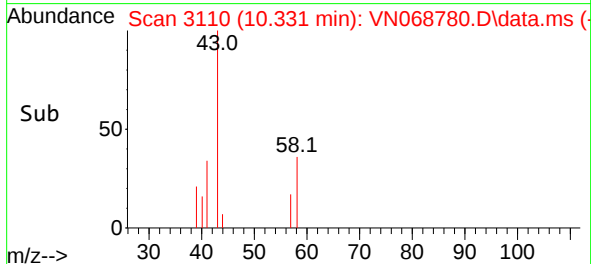
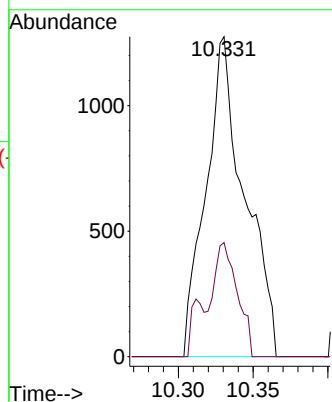
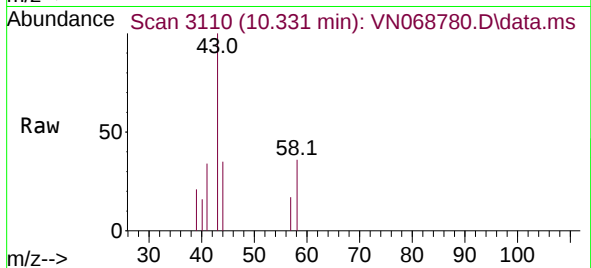




#51
4-Methyl-2-Pentanone
Concen: 0.267 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. 0.001 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

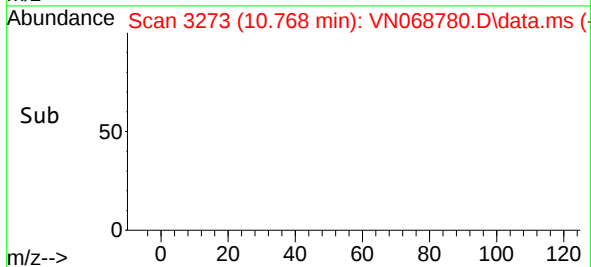
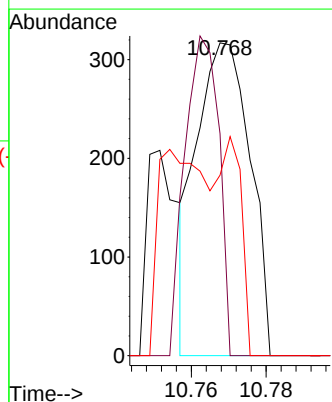
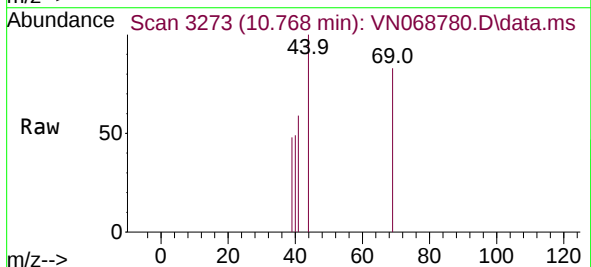
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

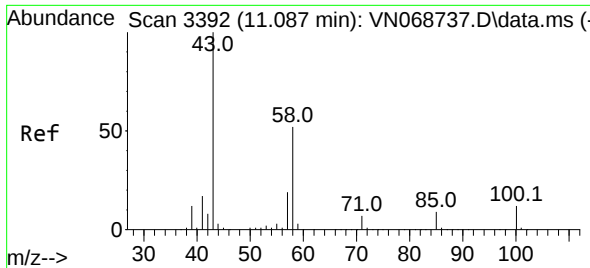
Tgt Ion: 43 Resp: 2292
Ion Ratio Lower Upper
43 100
58 22.6 28.6 43.0#



#56
Ethyl methacrylate
Concen: 1.853 ug/l
RT: 10.768 min Scan# 3273
Delta R.T. 0.006 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 69 Resp: 316
Ion Ratio Lower Upper
69 100
41 64.9 58.6 88.0
39 0.0 38.3 57.5#

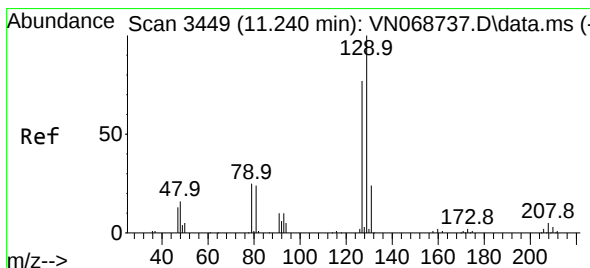
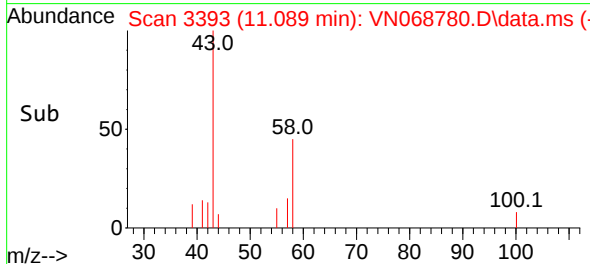
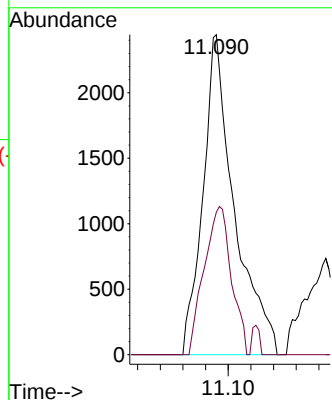
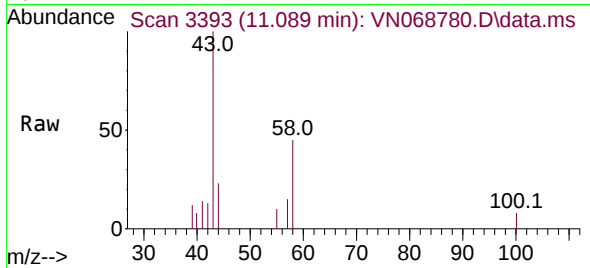




#59
2-Hexanone
Concen: 0.794 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.002 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

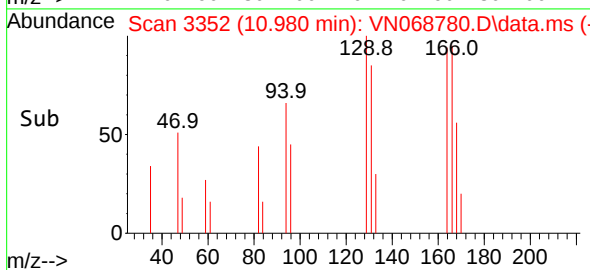
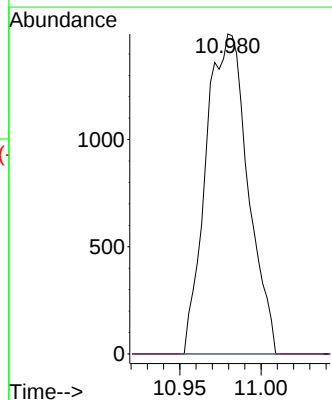
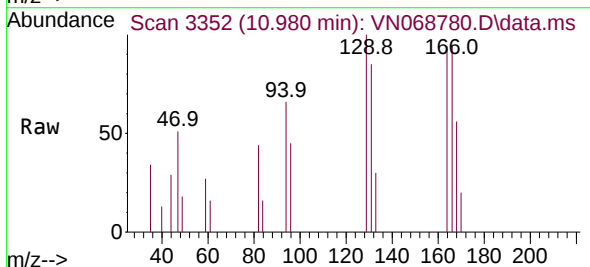
Instrument :
MSVOA_N
ClientSampled :
RW4-20210922

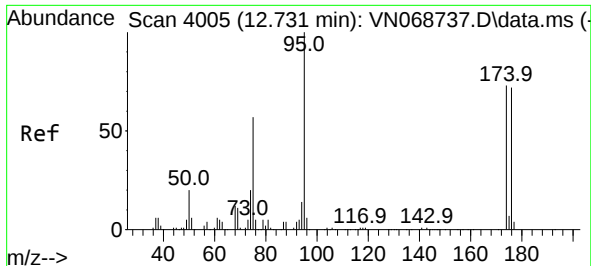
Tgt Ion: 43 Resp: 4692
Ion Ratio Lower Upper
43 100
58 40.2 24.7 74.1



#60
Dibromochloromethane
Concen: 0.363 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.260 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 129 Resp: 2683
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

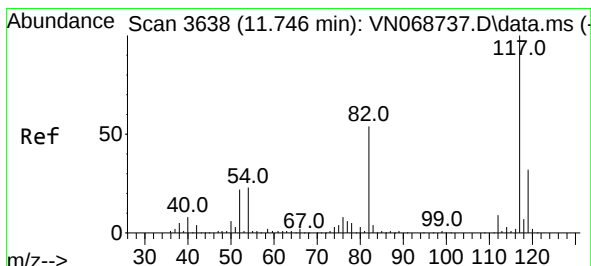
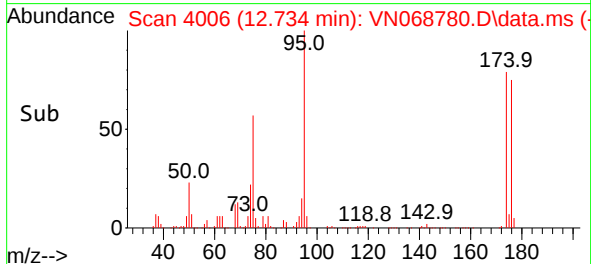
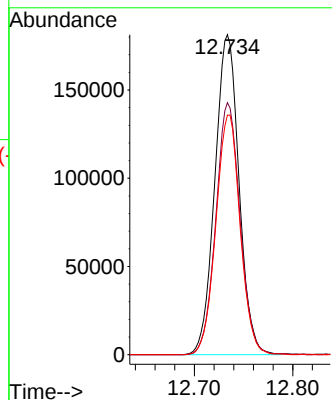
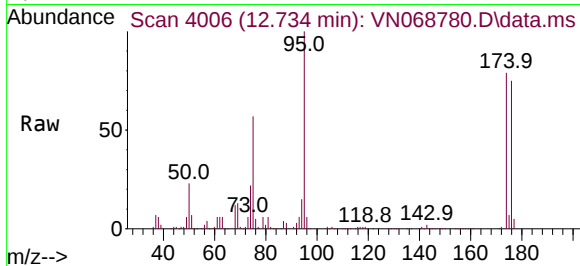




#62
4-Bromofluorobenzene
Concen: 45.378 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

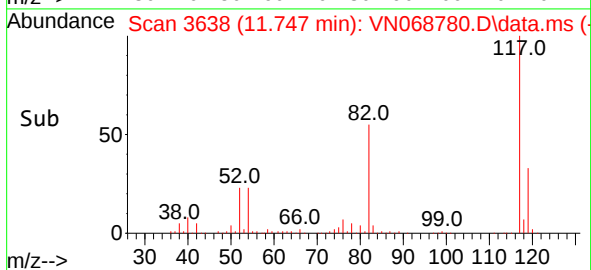
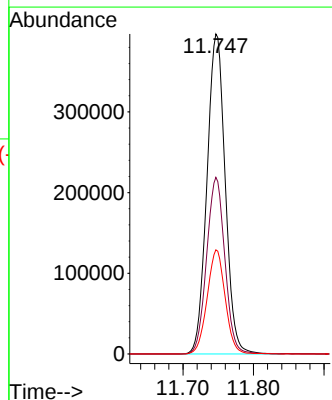
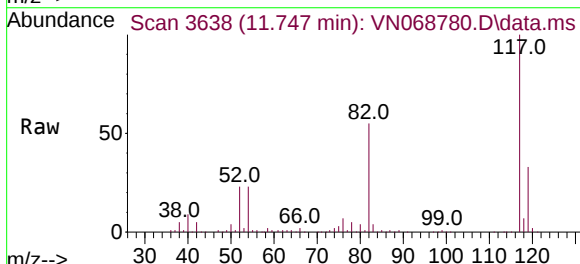
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

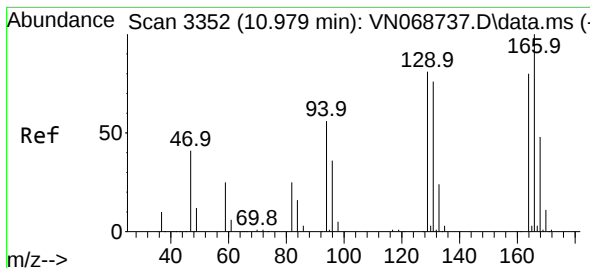
Tgt Ion: 95 Resp: 309243
Ion Ratio Lower Upper
95 100
174 79.1 0.0 122.0
176 75.4 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 117 Resp: 713538
Ion Ratio Lower Upper
117 100
82 55.2 53.1 79.7
119 32.5 25.5 38.3

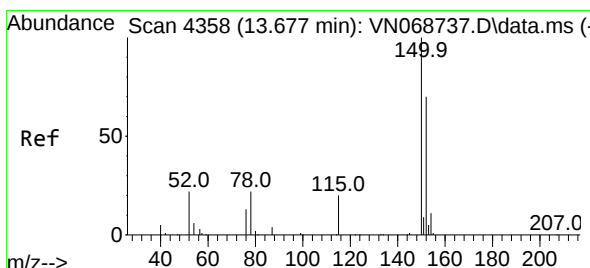
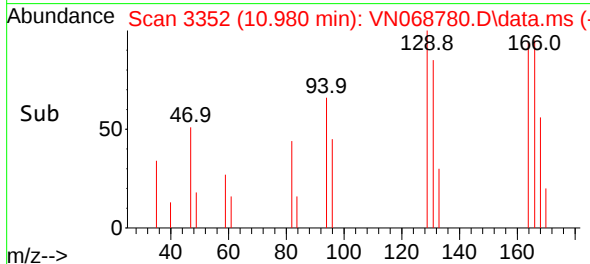
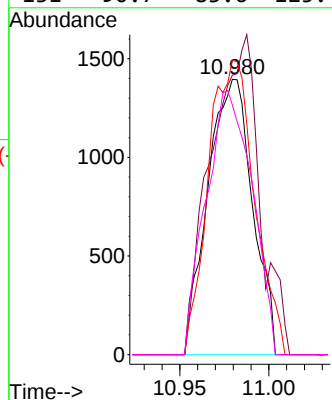
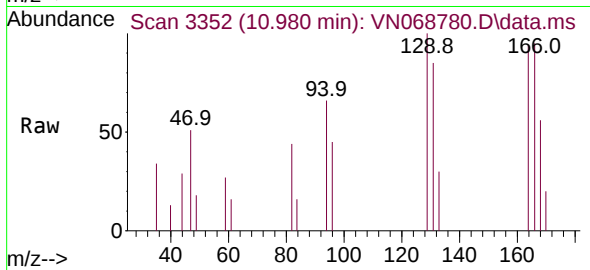




#64
Tetrachloroethene
Concen: 0.460 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. 0.001 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

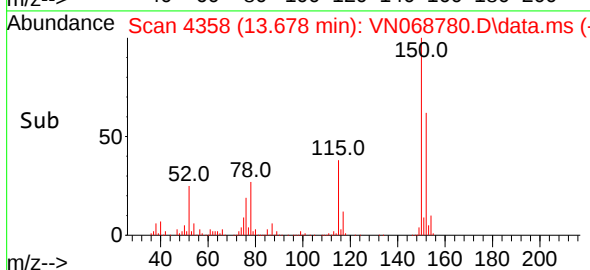
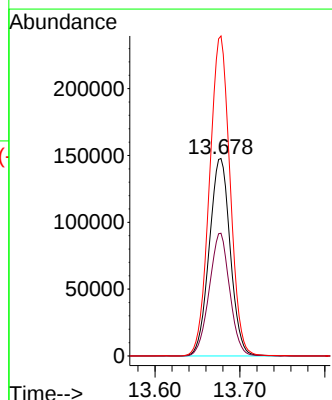
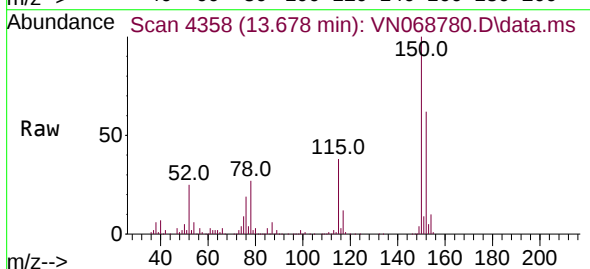
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

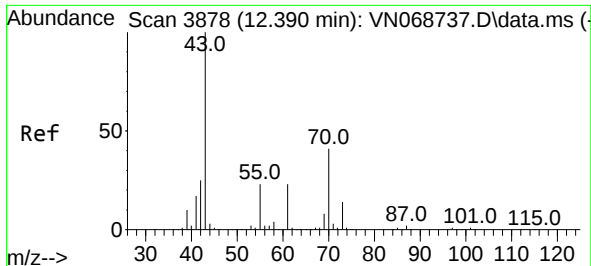
Tgt Ion:164 Resp: 2450
Ion Ratio Lower Upper
164 100
166 101.5 102.1 153.1#
129 106.9 86.9 130.3
131 90.7 83.6 125.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.001 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion:152 Resp: 253394
Ion Ratio Lower Upper
152 100
115 60.5 36.1 108.5
150 158.7 0.0 351.8

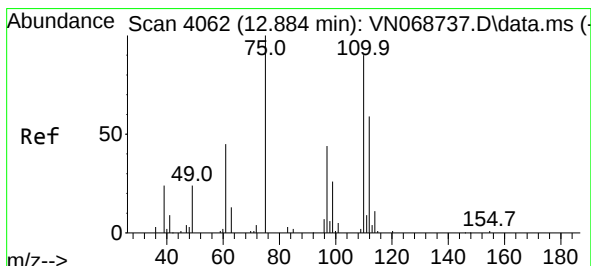
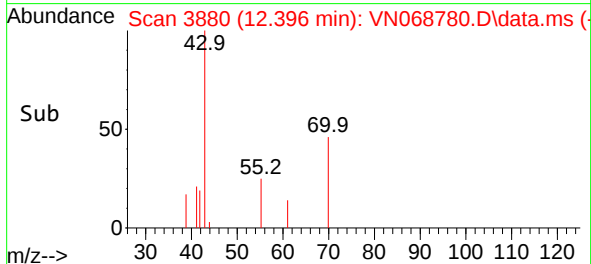
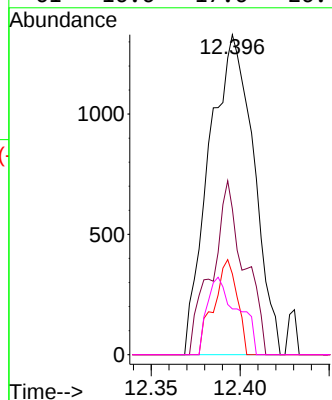
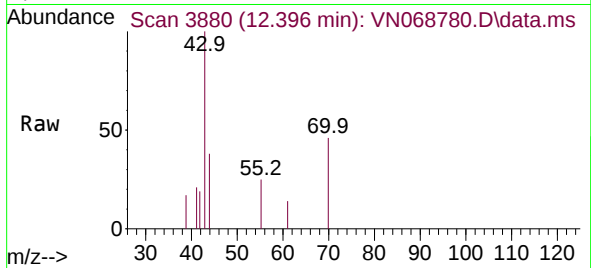




#74
N-amy1 acetate
Concen: 0.317 ug/l
RT: 12.396 min Scan# 3880
Delta R.T. 0.006 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

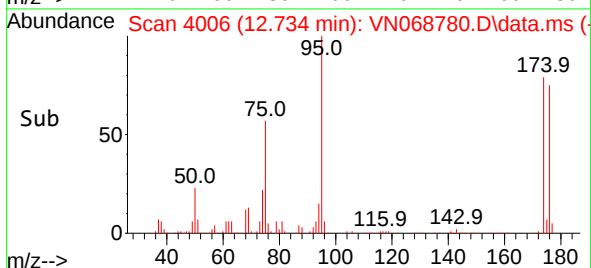
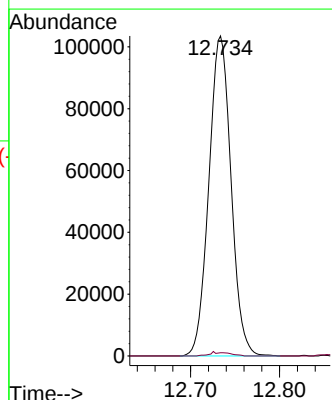
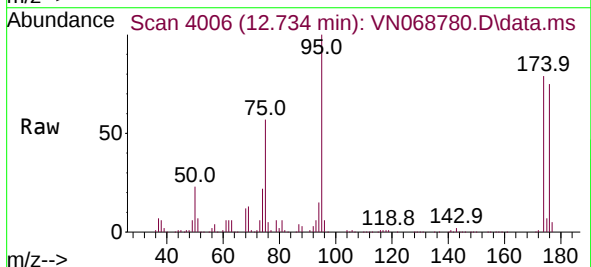
Instrument :
MSVOA_N
ClientSampled :
RW4-20210922

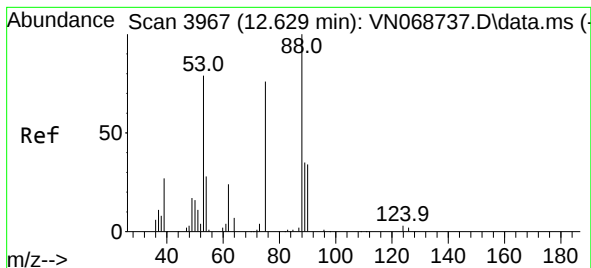
Tgt Ion: 43 Resp: 2314
Ion Ratio Lower Upper
43 100
70 39.5 29.4 44.2
55 15.6 17.0 25.4#
61 16.6 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 31.800 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 75 Resp: 179202
Ion Ratio Lower Upper
75 100
77 0.5 0.0 0.0#

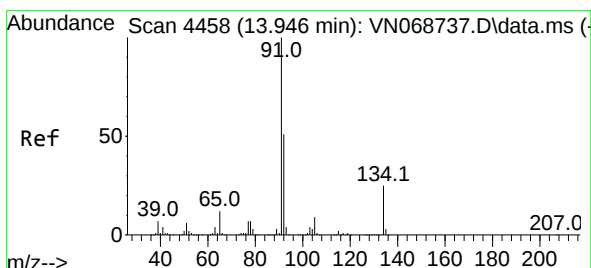
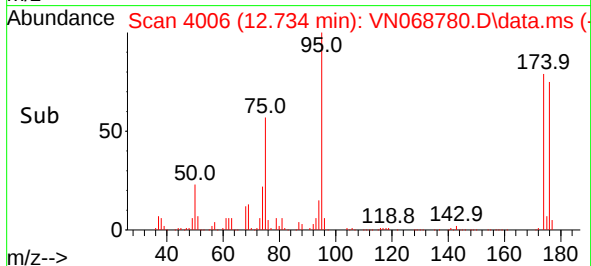
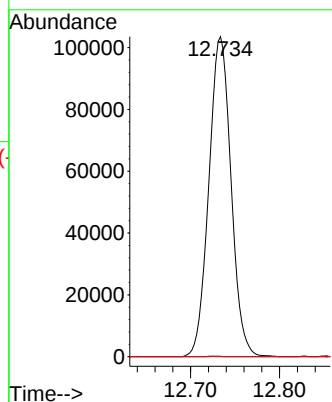
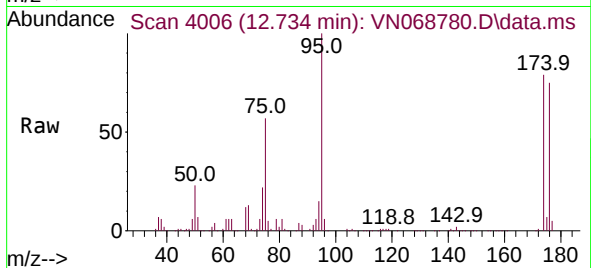




#81
trans-1,4-Dichloro-2-butene
Concen: 92.444 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

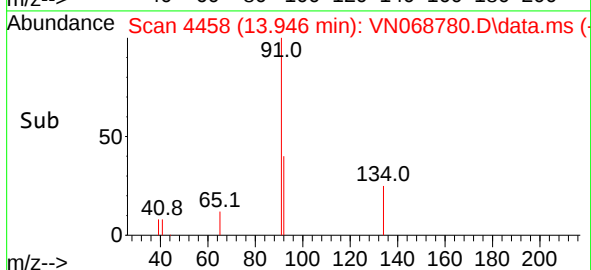
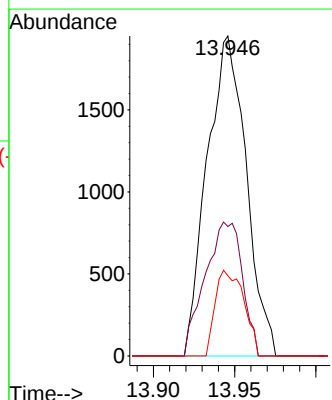
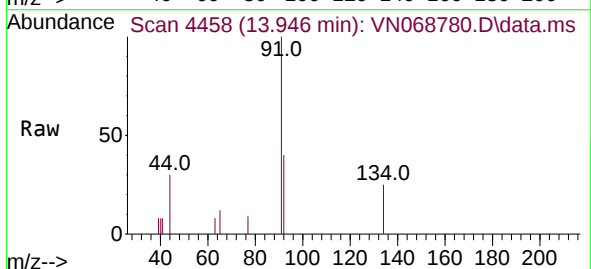
Instrument :
MSVOA_N
ClientSampleId :
RW4-20210922

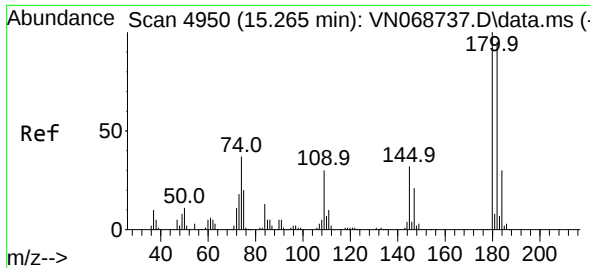
Tgt Ion: 75 Resp: 179202
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#



#89
n-Butylbenzene
Concen: 0.202 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

Tgt Ion: 91 Resp: 3261
Ion Ratio Lower Upper
91 100
92 39.9 25.7 77.1
134 19.5 11.2 33.6

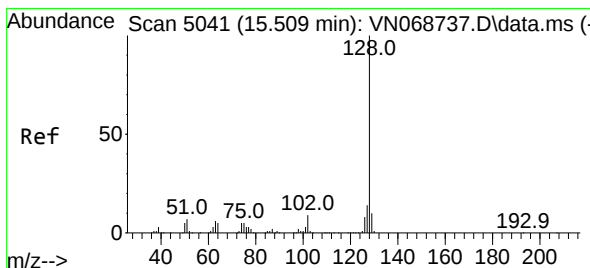
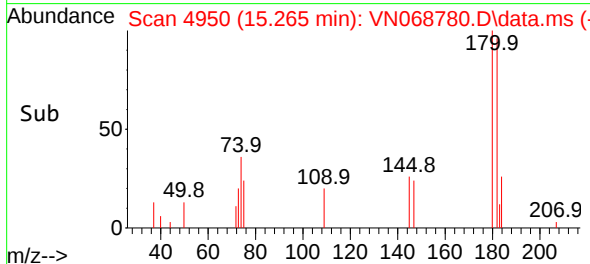
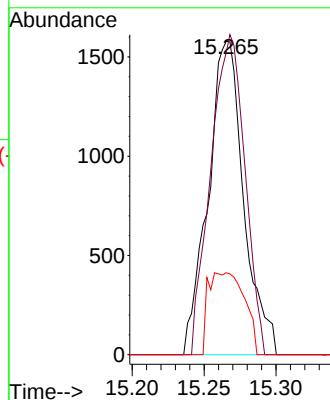
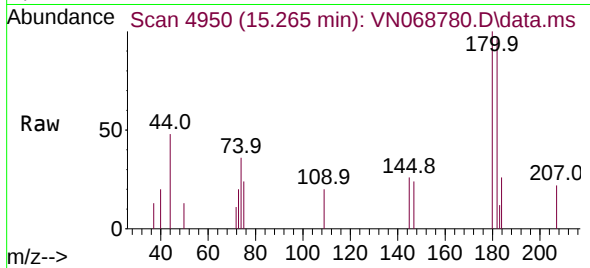




#93
1,2,4-Trichlorobenzene
Concen: 0.650 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

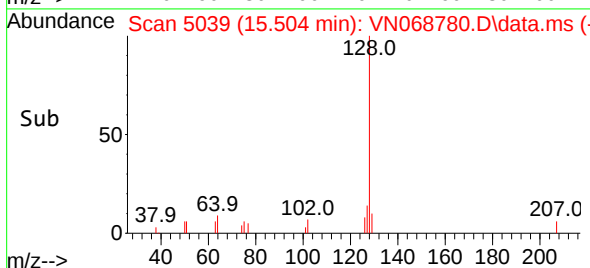
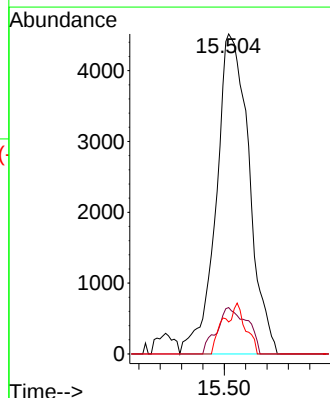
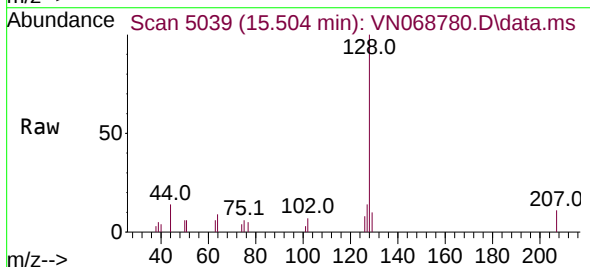
Instrument :
MSVOA_N
ClientSampled :
RW4-20210922

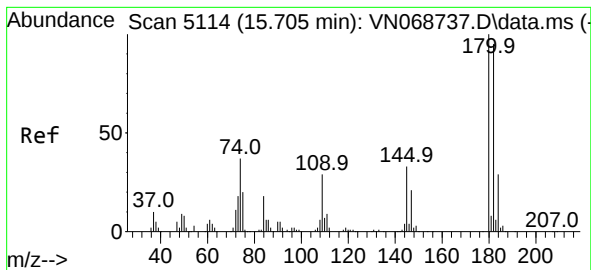
Tgt Ion:180 Resp: 2718
Ion Ratio Lower Upper
180 100
182 98.1 47.5 142.5
145 11.5 17.2 51.6#



#95
Naphthalene
Concen: 2.229 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.005 min
Lab File: VN068780.D
Acq: 1 Oct 2021 13:56

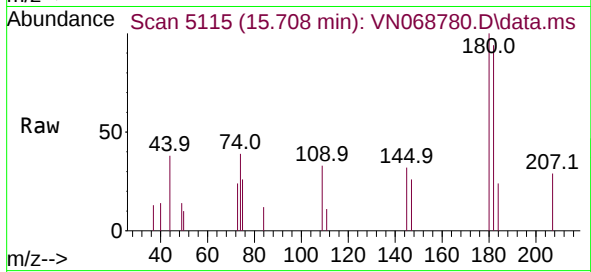
Tgt Ion:128 Resp: 9625
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 10.6 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.638 ug/l
 RT: 15.708 min Scan# 5115
 Delta R.T. 0.003 min
 Lab File: VN068780.D
 Acq: 1 Oct 2021 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 RW4-20210922



Tgt Ion:180 Resp: 2557

Ion	Ratio	Lower	Upper
180	100		
182	125.1	47.8	143.3
145	34.3	18.2	54.6

