

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093022\
 Data File : VN074676.D
 Acq On : 30 Sep 2022 18:53
 Operator : JC\MD
 Sample : N4933-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW5-GW-678-680

Quant Time: Oct 03 02:07:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092922W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 30 07:44:59 2022
 Response via : Initial Calibration

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

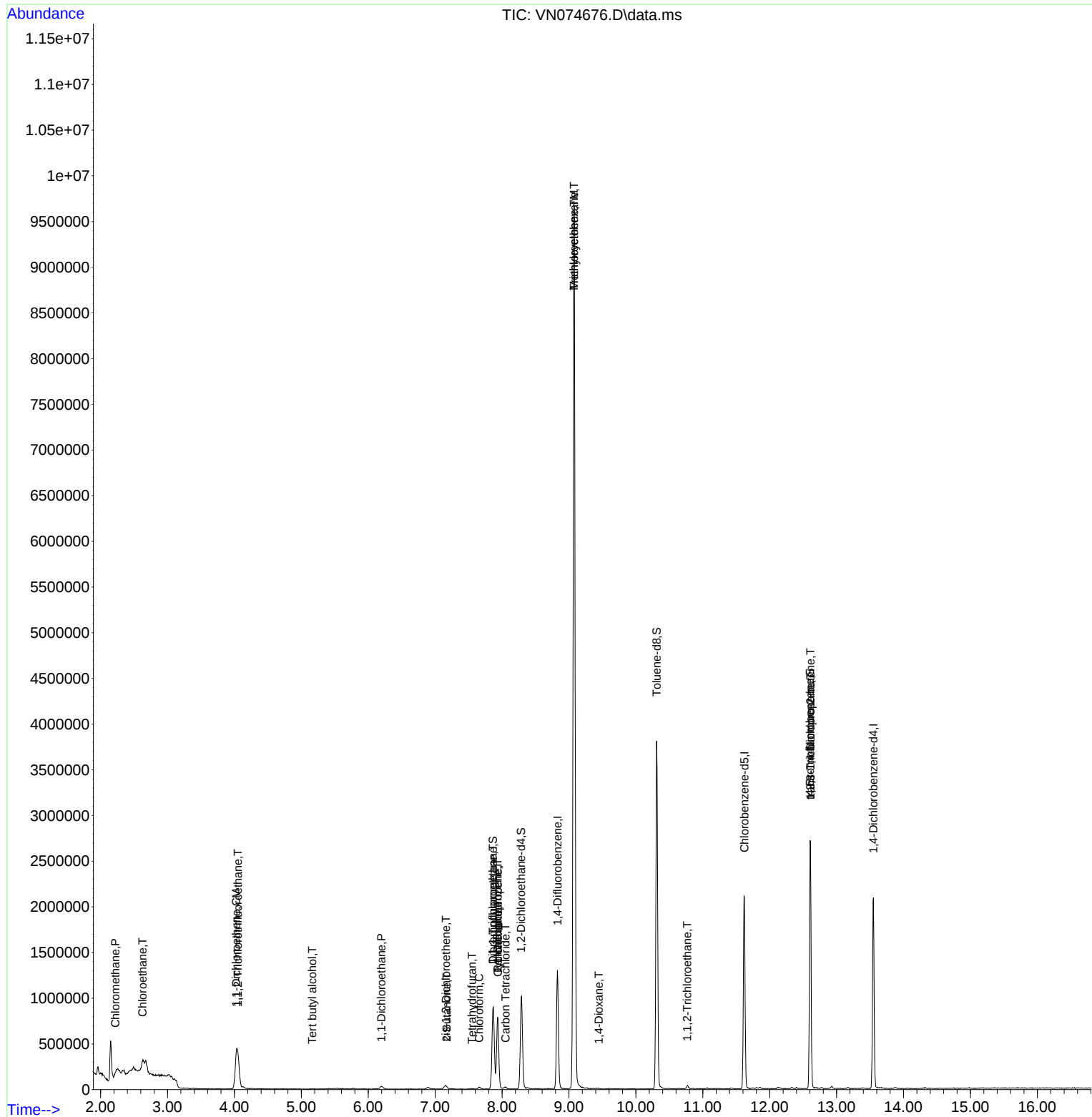
Internal Standards						
1) Pentafluorobenzene	7.934	168	557632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.828	114	1075149	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.622	117	1133594	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.551	152	505472	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.287	65	758089	54.244	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.480%	
35) Dibromofluoromethane	7.863	113	623401	54.781	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.560%	
50) Toluene-d8	10.310	98	2484504	51.904	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.800%	
62) 4-Bromofluorobenzene	12.604	95	812240	53.514	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.020%	
Target Compounds						
						Qvalue
3) Chloromethane	2.222	50	5107	0.299	ug/l #	58
6) Chloroethane	2.628	64	38107	2.000	ug/l #	42
8) Diethyl Ether	3.675	74	79	Below Cal	#	7
9) 1,1,2-Trichlorotrifluo...	4.051	101	187885	18.285	ug/l	90
11) Tert butyl alcohol	5.163	59	1048	0.281	ug/l #	72
12) 1,1-Dichloroethene	4.028	96	145018	13.924	ug/l	96
13) Acrolein	3.899	56	368	Below Cal	#	1
16) Acetone	4.134	43	27488	Below Cal		90
20) Methylene Chloride	4.893	84	832	Below Cal	#	52
24) 1,1-Dichloroethane	6.198	63	44842	1.920	ug/l	97
25) 2-Butanone	7.175	43	16469	1.280	ug/l #	64
27) cis-1,2-Dichloroethene	7.163	96	19491	1.401	ug/l	99
29) Tetrahydrofuran	7.551	42	3970	0.468	ug/l #	59
30) Chloroform	7.657	83	18339	0.852	ug/l	87
31) Cyclohexane	7.939	56	19386	0.854	ug/l #	54
32) 1,1,1-Trichloroethane	7.863	97	20290	1.074	ug/l	95
36) 1,1-Dichloropropene	7.934	75	55245	3.031	ug/l #	41
38) Carbon Tetrachloride	8.051	117	13260	0.794	ug/l #	96
39) Methylcyclohexane	9.075	83	46297	2.035	ug/l #	1
44) Trichloroethene	9.075	130	3097663	264.693	ug/l	86
49) 1,4-Dioxane	9.445	88	4038	11.914	ug/l #	53
55) 1,1,2-Trichloroethane	10.769	97	12548	0.918	ug/l	98
74) N-amyl acetate	12.269	43	916	Below Cal	#	39
75) 1,1,2,2-Tetrachloroethane	12.686	83	917	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.610	75	477563	41.901	ug/l #	1
77) Bromobenzene	12.610	156	595	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.610	75	477563	78.953	ug/l #	11

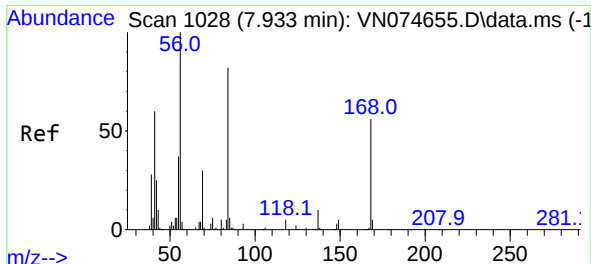
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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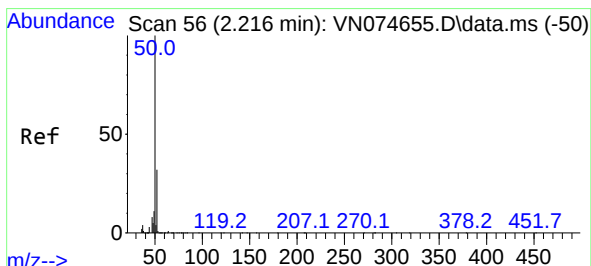
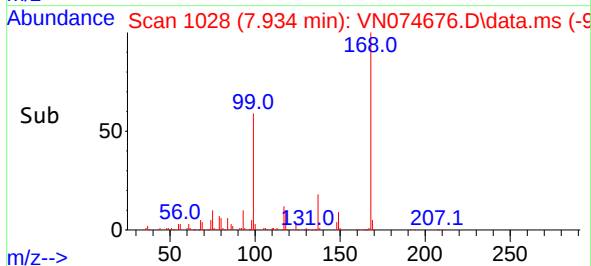
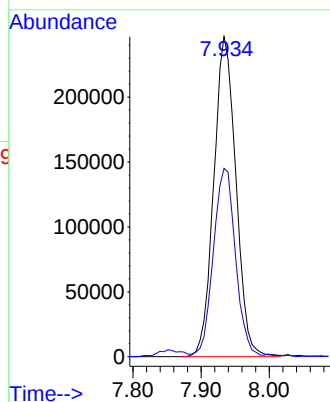
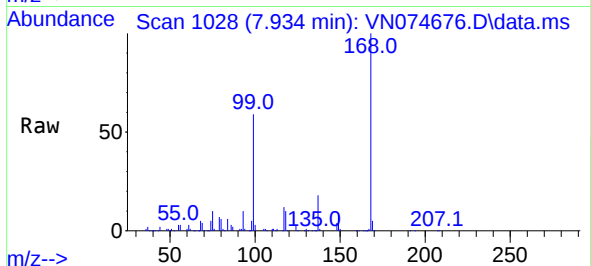




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.934 min Scan# 1028
Delta R.T. 0.001 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

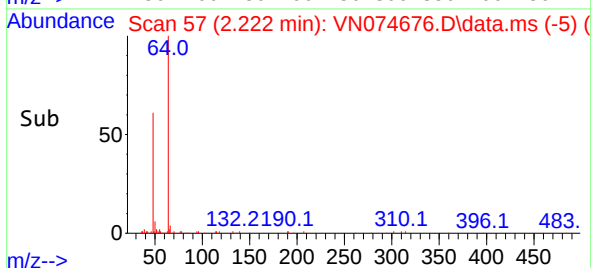
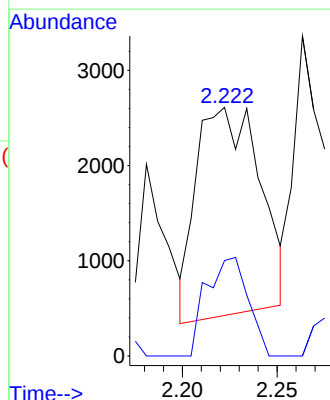
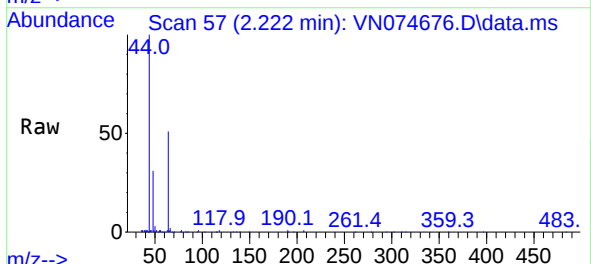
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

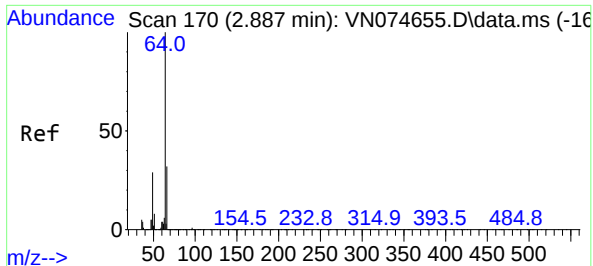
Tgt Ion:168 Resp: 557632
Ion Ratio Lower Upper
168 100
99 58.4 42.3 63.5



#3
Chloromethane
Concen: 0.299 ug/l
RT: 2.222 min Scan# 57
Delta R.T. 0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 50 Resp: 5107
Ion Ratio Lower Upper
50 100
52 55.5 25.7 38.5

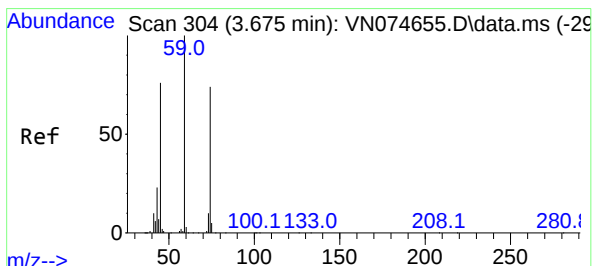
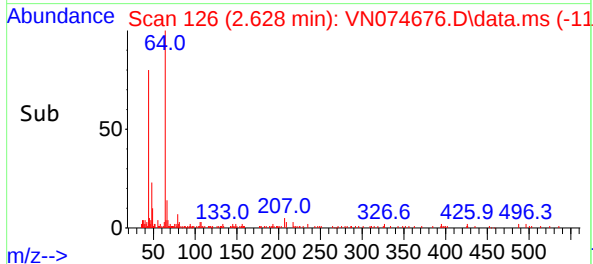
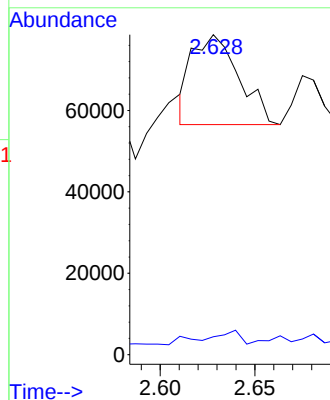
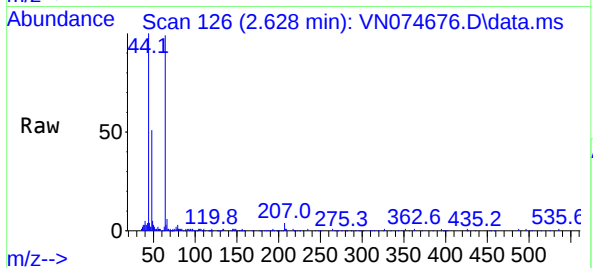




#6
Chloroethane
Concen: 2.000 ug/l
RT: 2.628 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

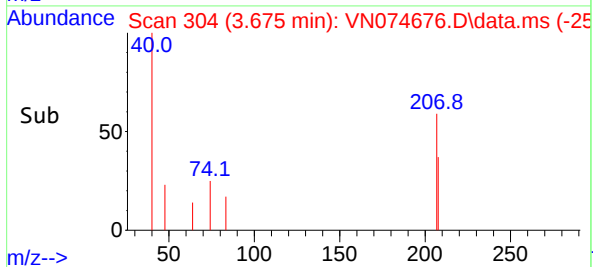
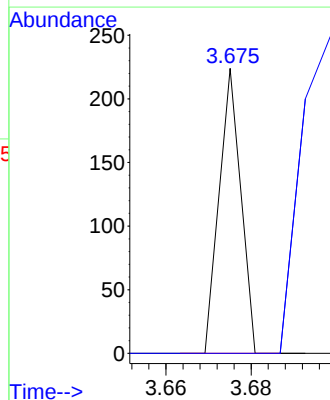
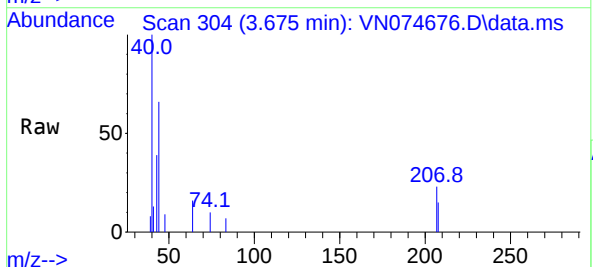
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

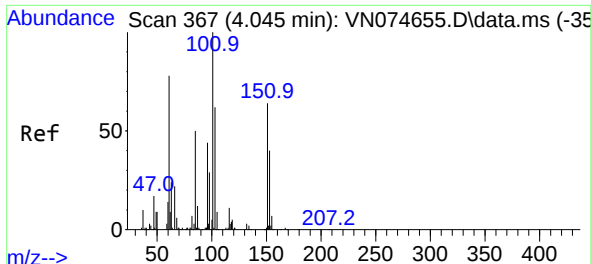
Tgt Ion: 64 Resp: 38107
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#8
Diethyl Ether
Concen: Below Cal
RT: 3.675 min Scan# 304
Delta R.T. 0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 74 Resp: 79
Ion Ratio Lower Upper
74 100
45 0.0 42.9 128.5#

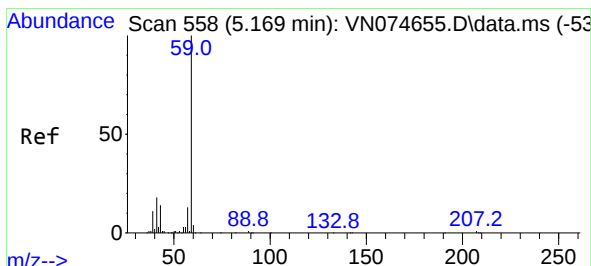
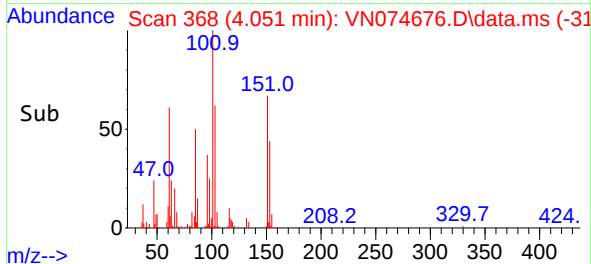
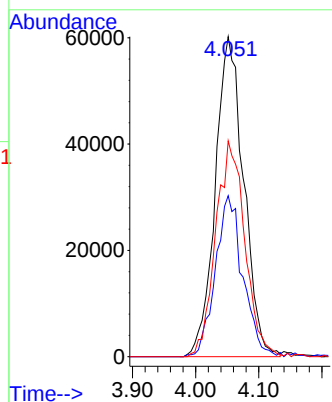
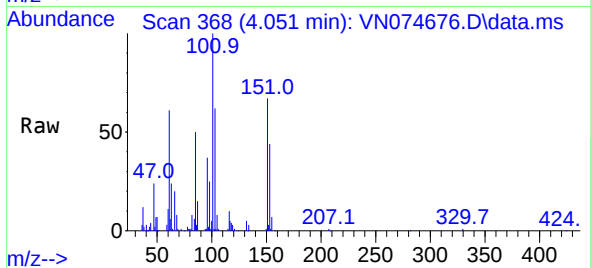




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.285 ug/l
RT: 4.051 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

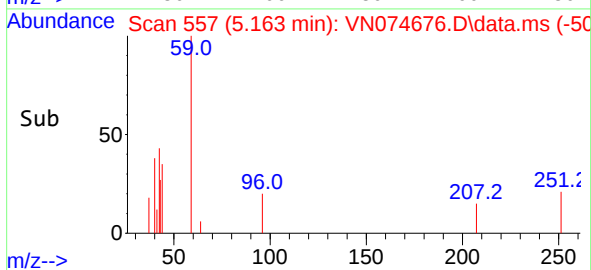
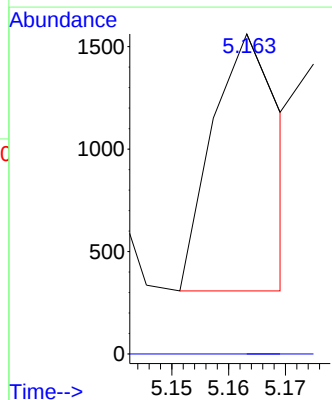
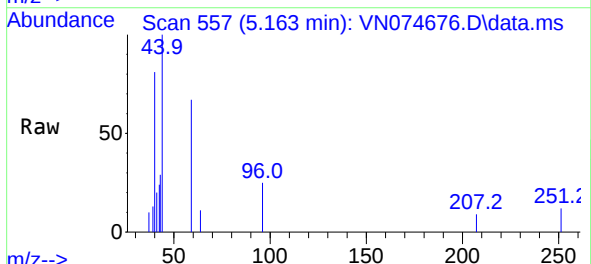
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

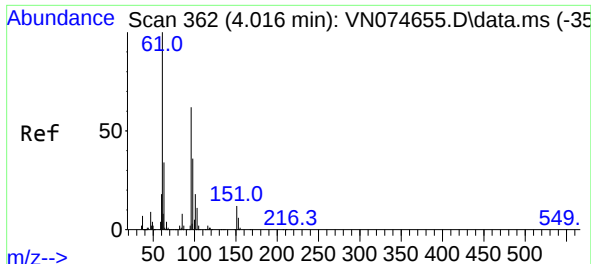
Tgt Ion:101 Resp: 187885
Ion Ratio Lower Upper
101 100
85 48.6 34.7 52.1
151 69.1 63.0 94.4



#11
Tert butyl alcohol
Concen: 0.281 ug/l
RT: 5.163 min Scan# 557
Delta R.T. -0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 59 Resp: 1048
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

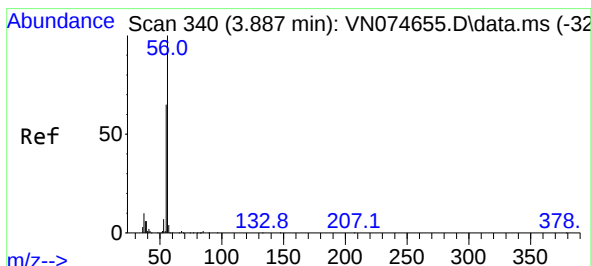
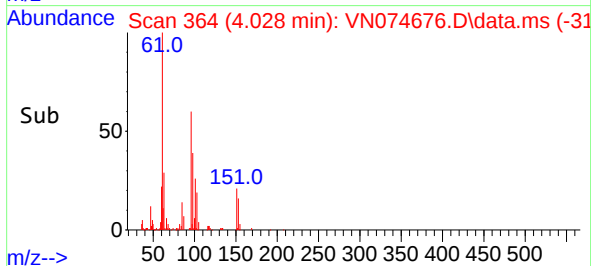
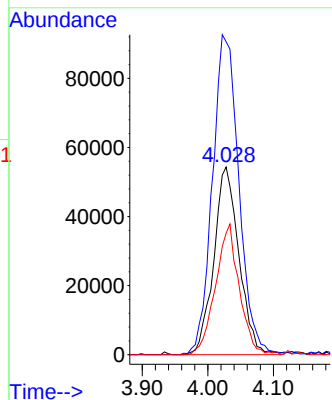
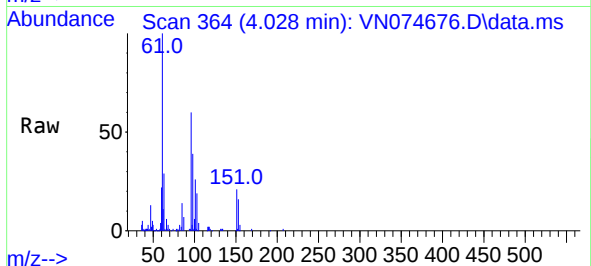




#12
1,1-Dichloroethene
Concen: 13.924 ug/l
RT: 4.028 min Scan# 30
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

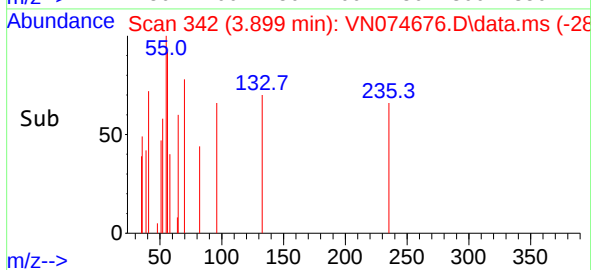
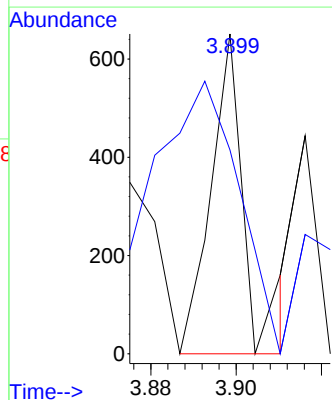
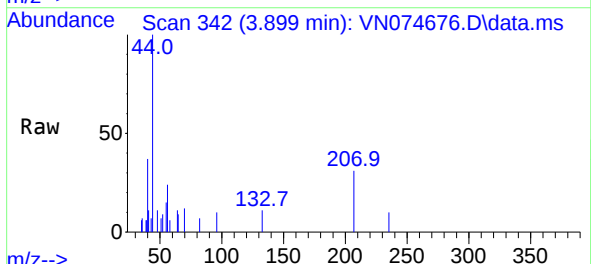
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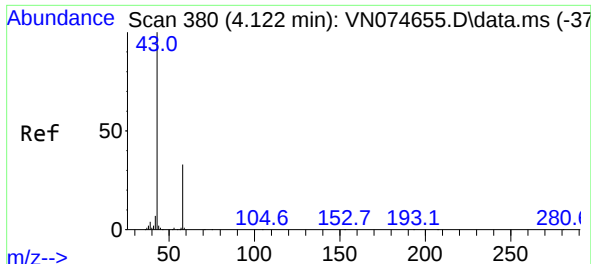
Tgt Ion: 96 Resp: 145018
Ion Ratio Lower Upper
96 100
61 166.7 127.6 191.4
98 64.7 51.2 76.8



#13
Acrolein
Concen: Below Cal
RT: 3.899 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 56 Resp: 368
Ion Ratio Lower Upper
56 100
55 215.2 54.8 82.2#

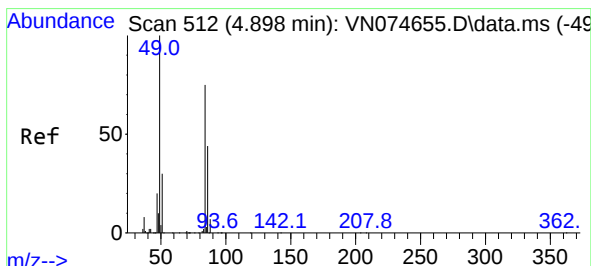
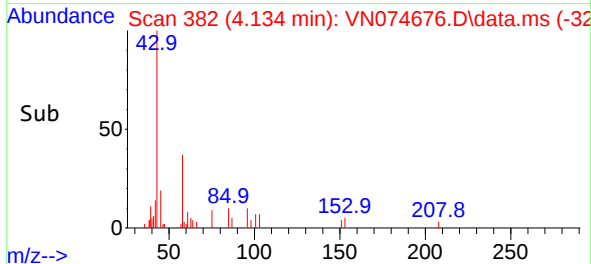
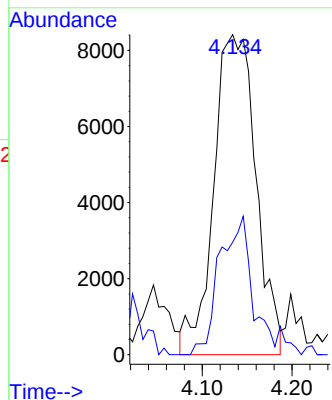
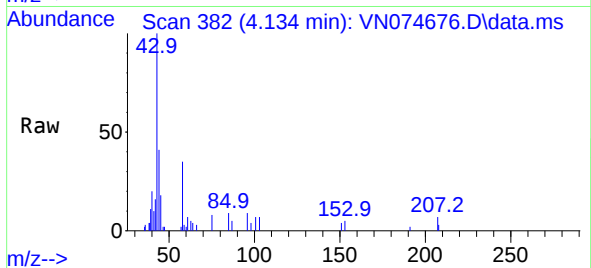




#16
Acetone
Concen: Below Cal
RT: 4.134 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

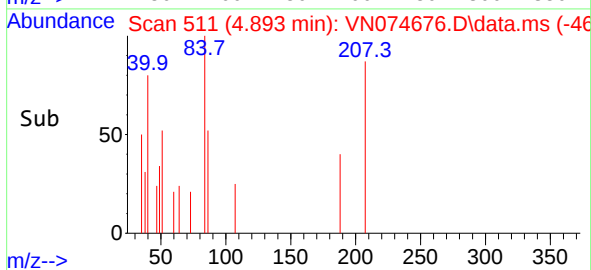
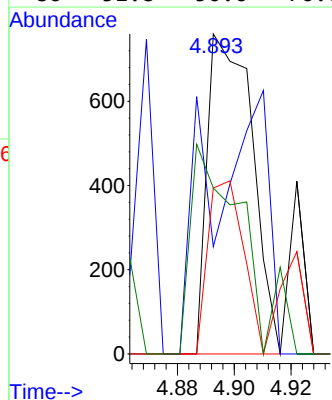
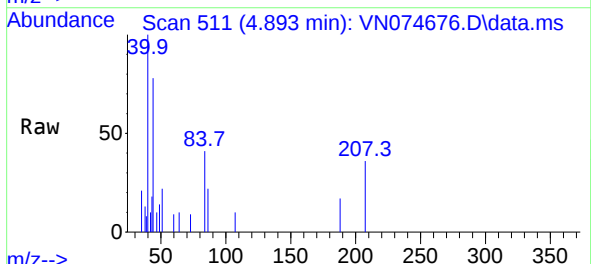
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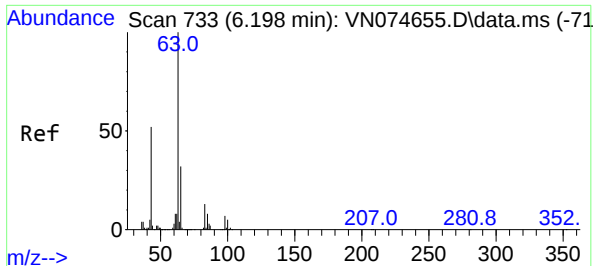
Tgt Ion: 43 Resp: 27488
Ion Ratio Lower Upper
43 100
58 37.9 26.0 39.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.893 min Scan# 511
Delta R.T. -0.005 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 84 Resp: 832
Ion Ratio Lower Upper
84 100
49 33.6 88.3 132.5#
51 51.8 28.2 42.2#
86 51.8 50.6 76.0

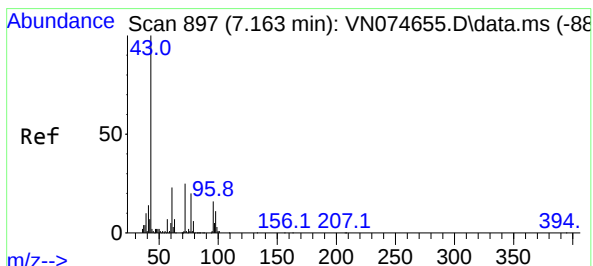
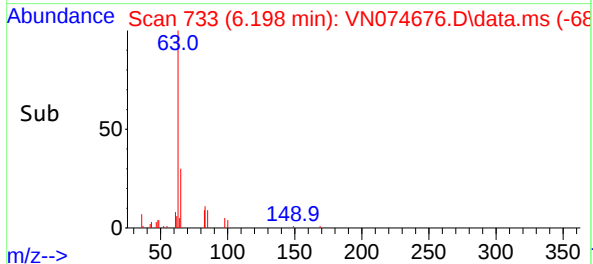
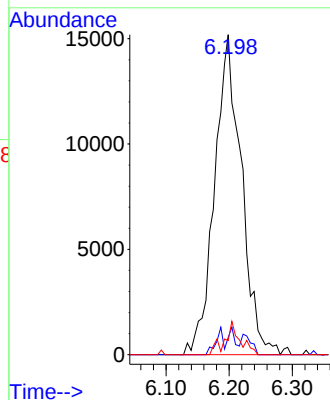
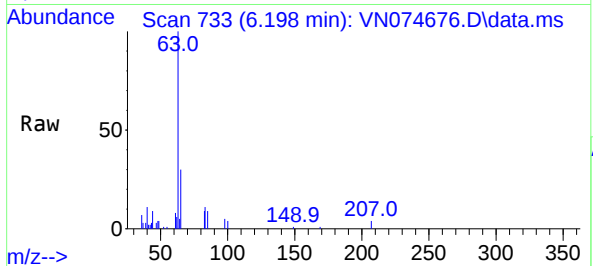




#24
1,1-Dichloroethane
Concen: 1.920 ug/l
RT: 6.198 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

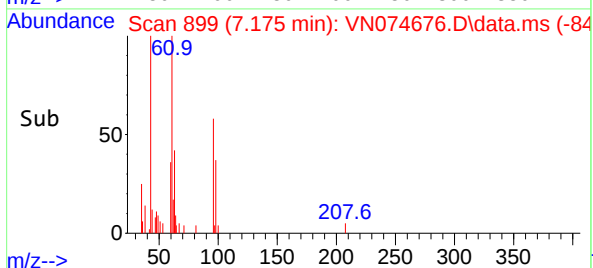
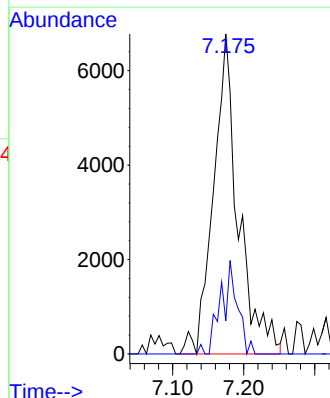
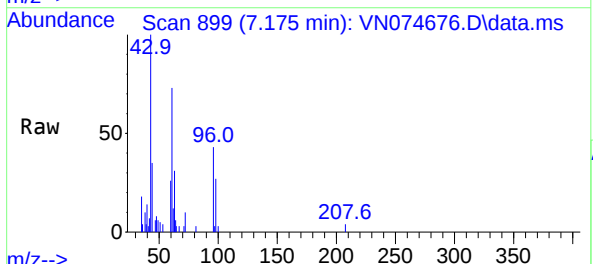
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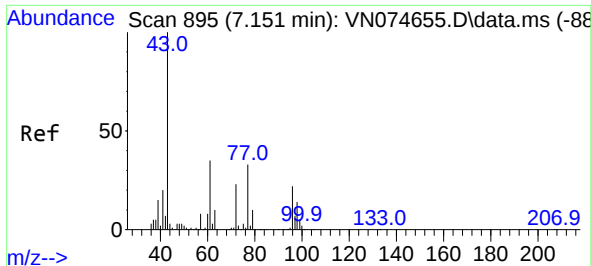
Tgt Ion: 63 Resp: 44842
Ion Ratio Lower Upper
63 100
98 5.4 3.5 10.4
100 4.4 2.3 6.8



#25
2-Butanone
Concen: 1.280 ug/l
RT: 7.175 min Scan# 899
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 43 Resp: 16469
Ion Ratio Lower Upper
43 100
72 10.3 23.7 35.5#





#27

cis-1,2-Dichloroethene

Concen: 1.401 ug/l

RT: 7.163 min Scan# 895

Delta R.T. 0.012 min

Lab File: VN074676.D

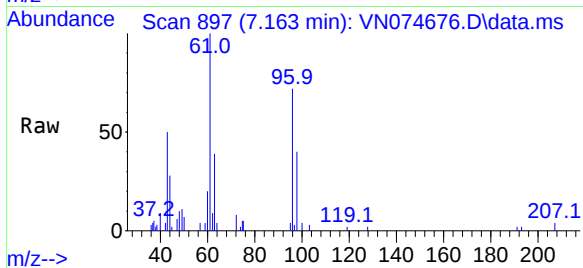
Acq: 30 Sep 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-678-680



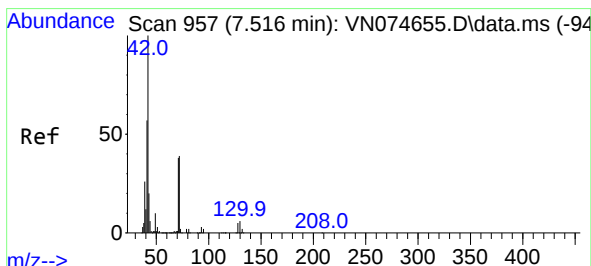
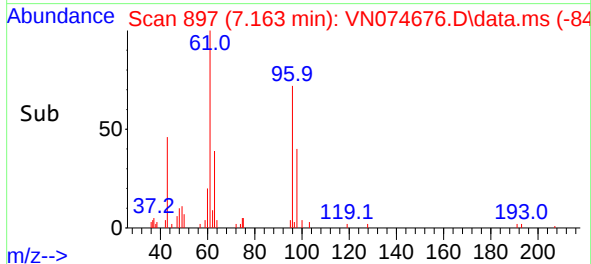
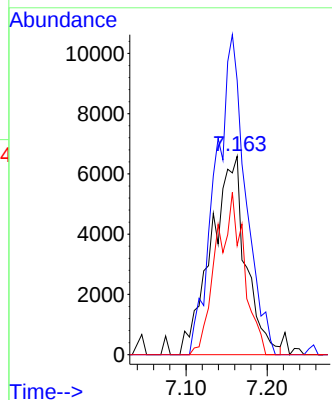
Tgt Ion: 96 Resp: 19491

Ion Ratio Lower Upper

96 100

61 141.8 0.0 280.6

98 65.3 0.0 128.4



#29

Tetrahydrofuran

Concen: 0.468 ug/l

RT: 7.551 min Scan# 963

Delta R.T. 0.035 min

Lab File: VN074676.D

Acq: 30 Sep 2022 18:53

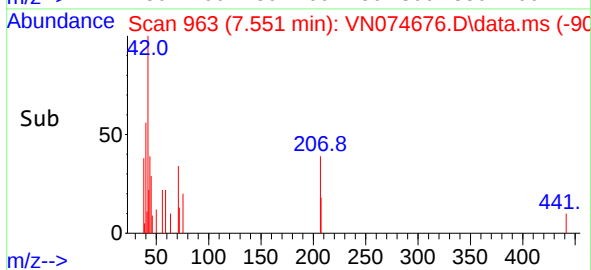
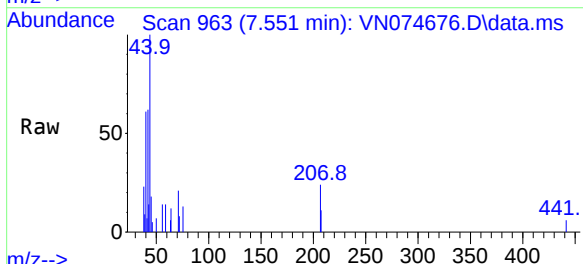
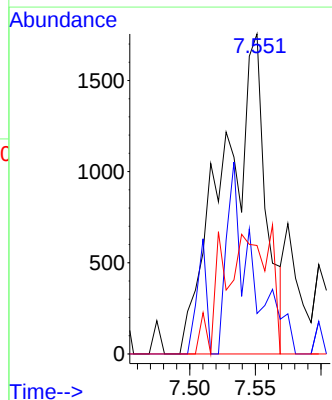
Tgt Ion: 42 Resp: 3970

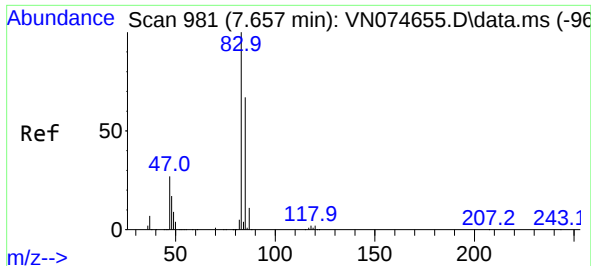
Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

71 41.5 36.6 55.0

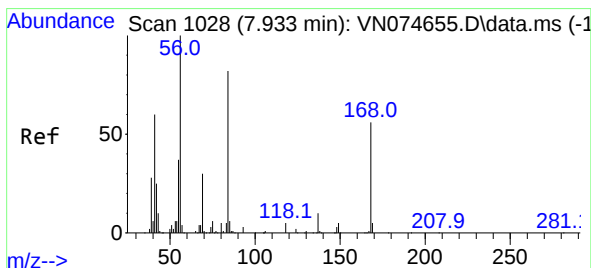
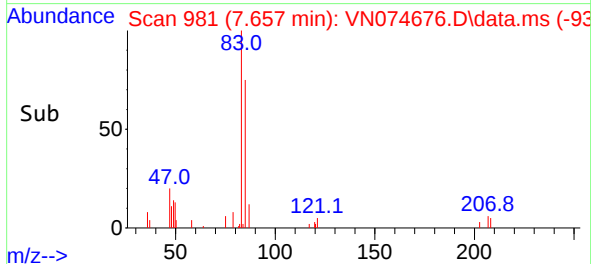
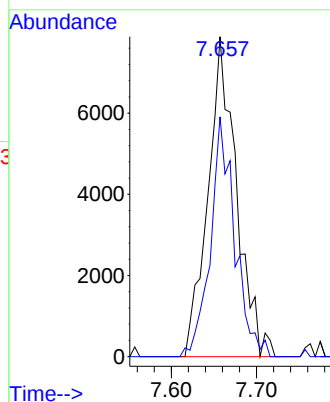
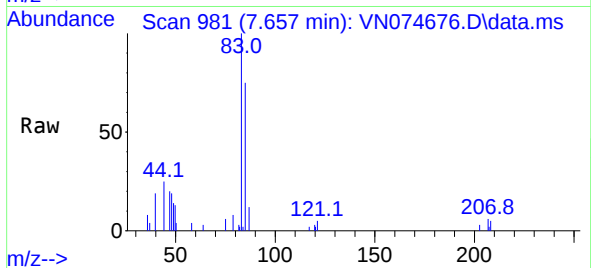




#30
Chloroform
Concen: 0.852 ug/l
RT: 7.657 min Scan# 981
Delta R.T. 0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

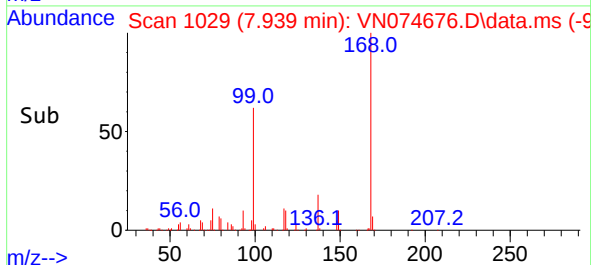
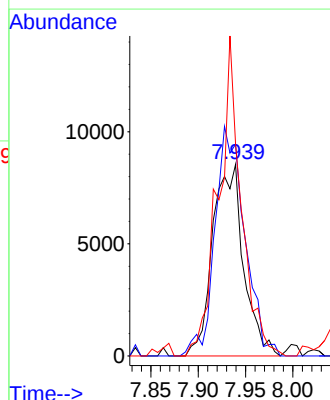
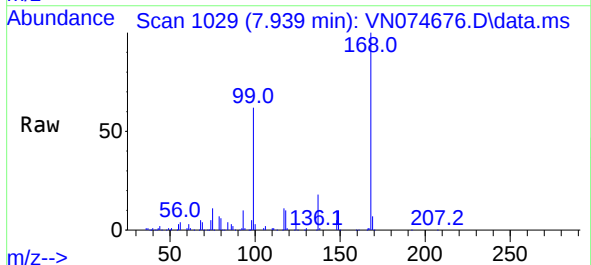
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

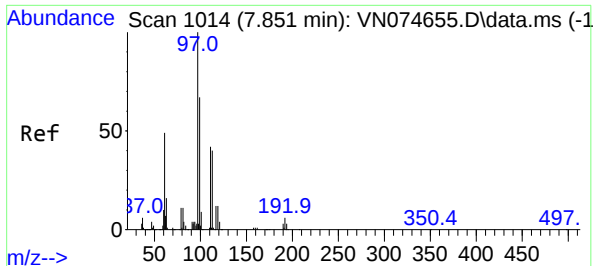
Tgt Ion: 83 Resp: 18339
Ion Ratio Lower Upper
83 100
85 74.9 51.8 77.8



#31
Cyclohexane
Concen: 0.854 ug/l
RT: 7.939 min Scan# 1029
Delta R.T. 0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 56 Resp: 19386
Ion Ratio Lower Upper
56 100
69 110.5 27.8 41.8#
84 110.7 76.9 115.3

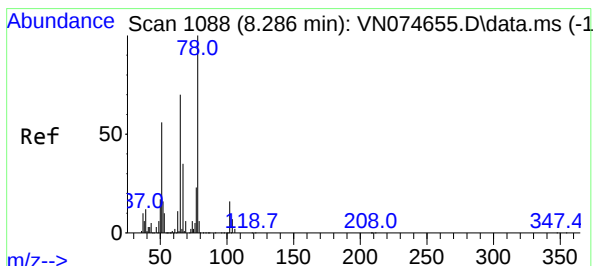
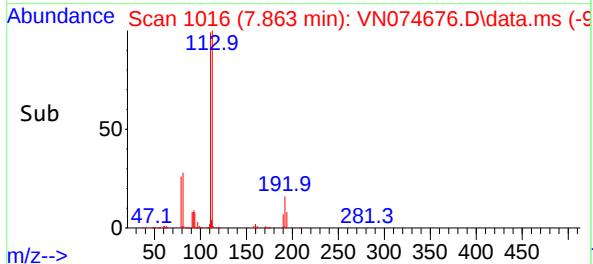
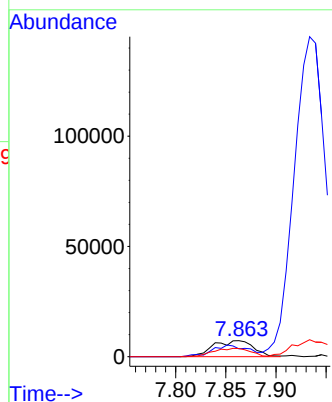
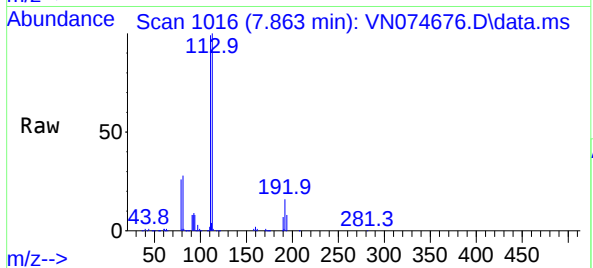




#32
1,1,1-Trichloroethane
Concen: 1.074 ug/l
RT: 7.863 min Scan# 1014
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

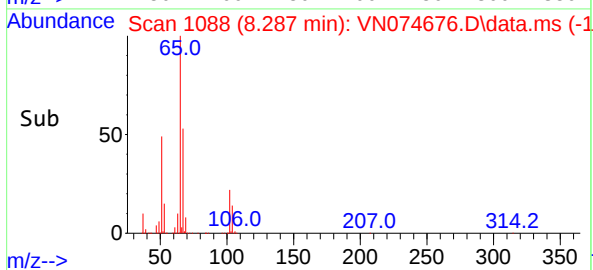
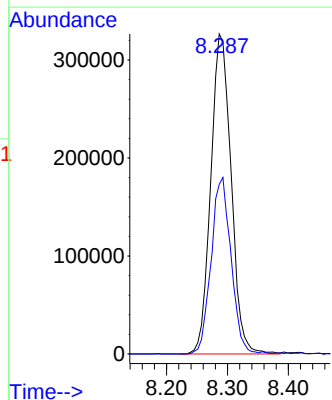
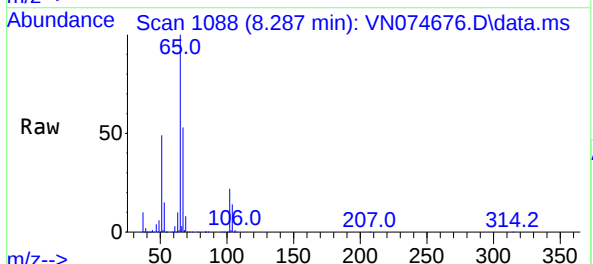
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

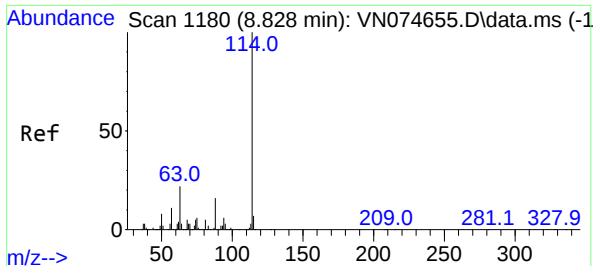
Tgt Ion: 97 Resp: 20290
Ion Ratio Lower Upper
97 100
99 66.3 50.6 76.0
61 48.7 36.0 54.0



#33
1,2-Dichloroethane-d4
Concen: 54.244 ug/l
RT: 8.287 min Scan# 1088
Delta R.T. 0.001 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 65 Resp: 758089
Ion Ratio Lower Upper
65 100
67 54.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.828 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VN074676.D

Acq: 30 Sep 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-678-680

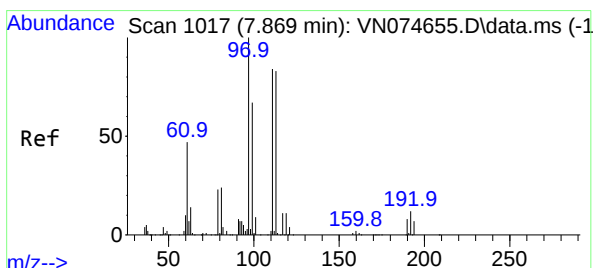
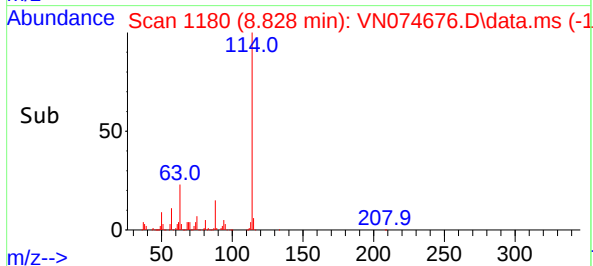
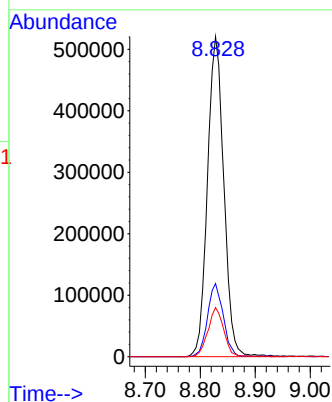
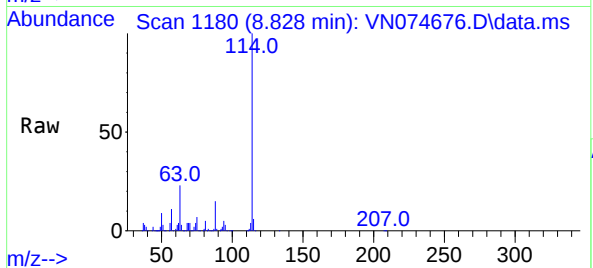
Tgt Ion:114 Resp: 1075149

Ion Ratio Lower Upper

114 100

63 22.9 0.0 40.0

88 15.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.781 ug/l

RT: 7.863 min Scan# 1016

Delta R.T. -0.006 min

Lab File: VN074676.D

Acq: 30 Sep 2022 18:53

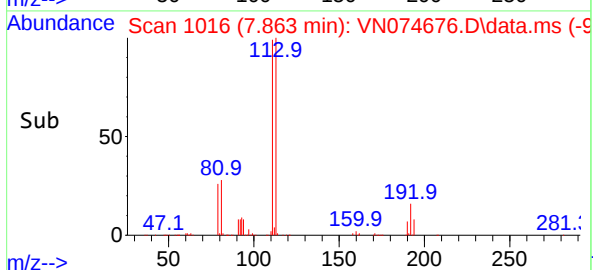
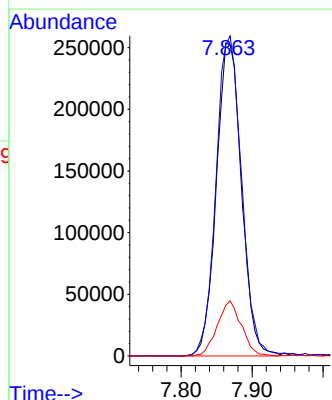
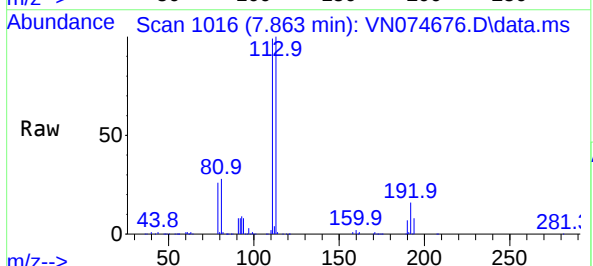
Tgt Ion:113 Resp: 623401

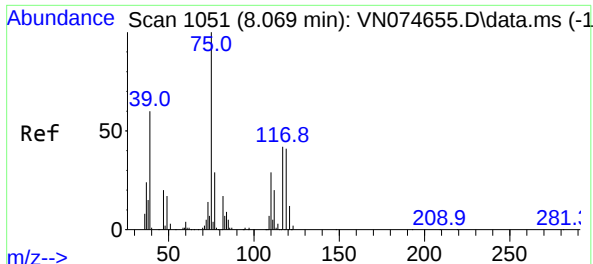
Ion Ratio Lower Upper

113 100

111 104.0 81.4 122.0

192 16.9 17.0 25.6#

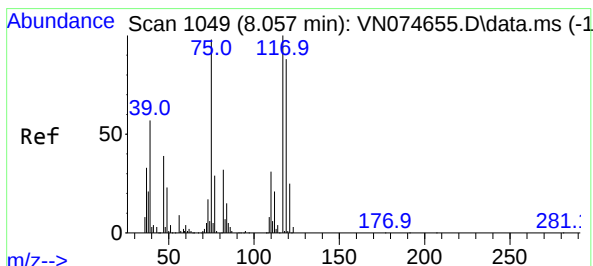
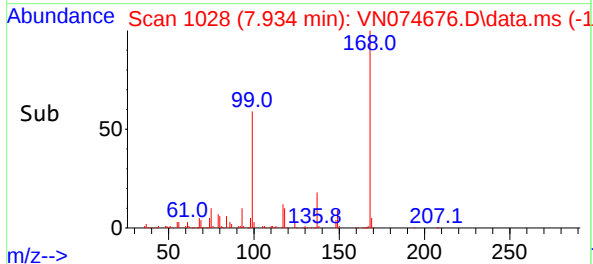
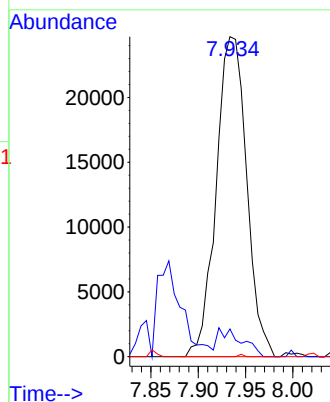
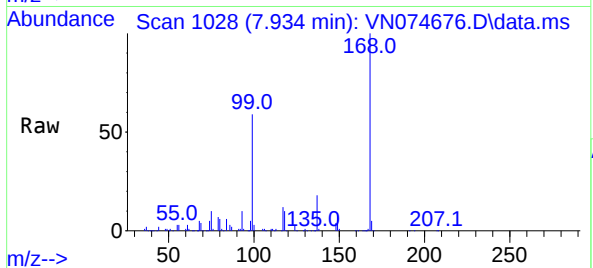




#36
1,1-Dichloropropene
Concen: 3.031 ug/l
RT: 7.934 min Scan# 1
Delta R.T. -0.135 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

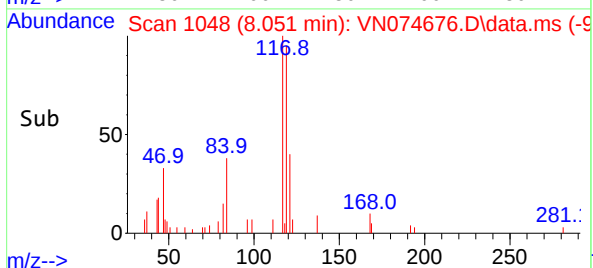
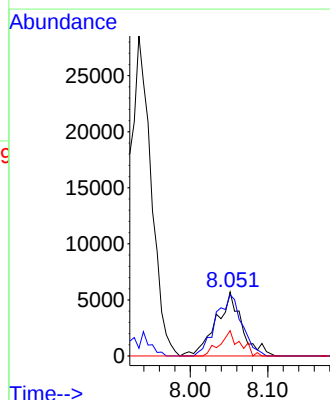
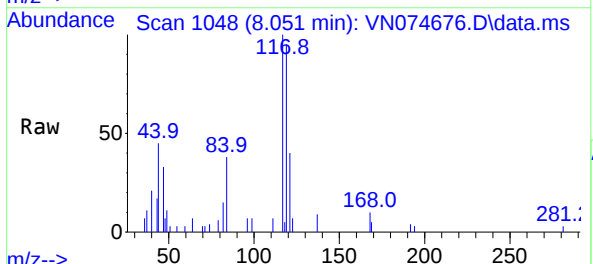
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

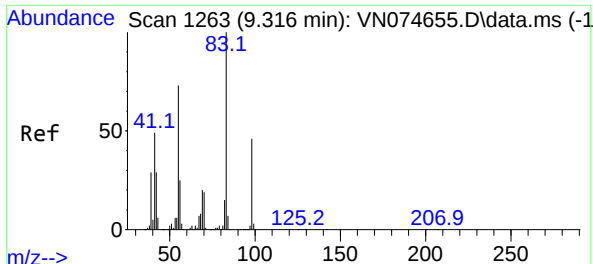
Tgt Ion: 75 Resp: 55245
Ion Ratio Lower Upper
75 100
110 0.0 18.3 54.8#
77 0.1 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 0.794 ug/l
RT: 8.051 min Scan# 1048
Delta R.T. -0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 117 Resp: 13260
Ion Ratio Lower Upper
117 100
119 95.4 75.8 113.8
121 39.5 24.6 37.0#





#39

Methylcyclohexane

Concen: 2.035 ug/l

RT: 9.075 min Scan# 11

Delta R.T. -0.241 min

Lab File: VN074676.D

Acq: 30 Sep 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-678-680

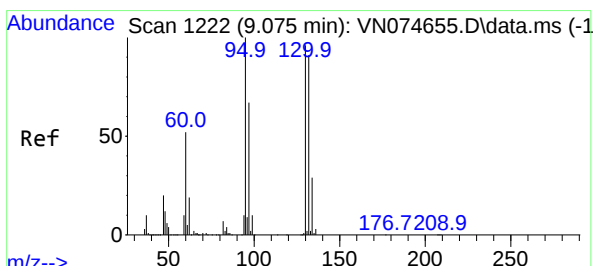
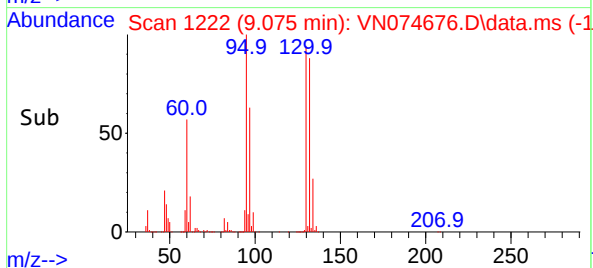
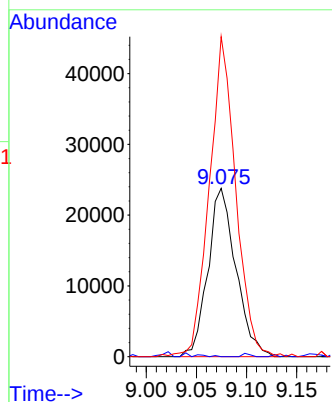
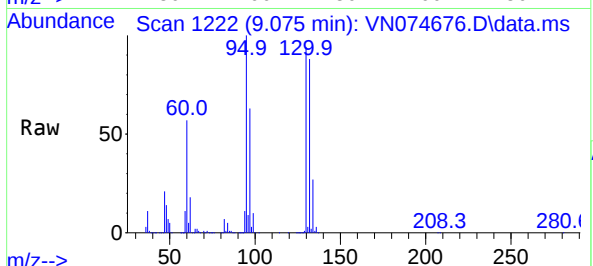
Tgt Ion: 83 Resp: 46297

Ion Ratio Lower Upper

83 100

55 0.0 57.8 86.8#

98 188.4 39.4 59.2#



#44

Trichloroethene

Concen: 264.693 ug/l

RT: 9.075 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VN074676.D

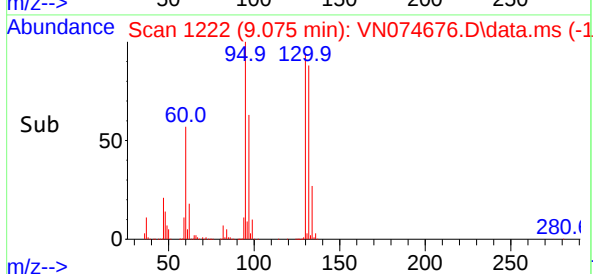
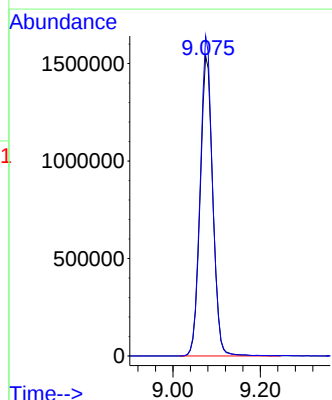
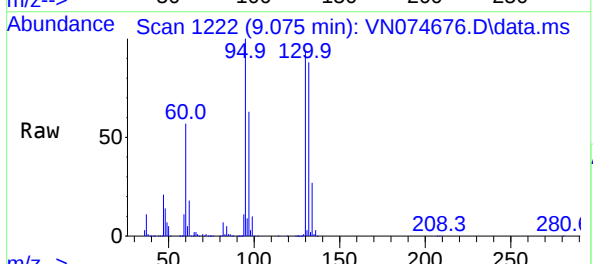
Acq: 30 Sep 2022 18:53

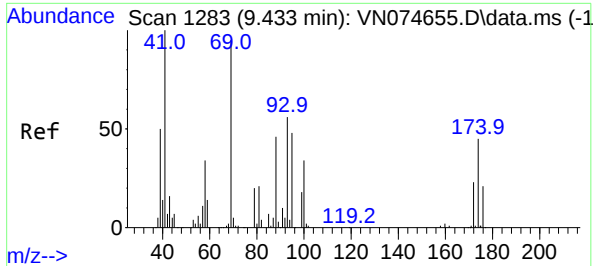
Tgt Ion:130 Resp: 3097663

Ion Ratio Lower Upper

130 100

95 106.7 0.0 186.8

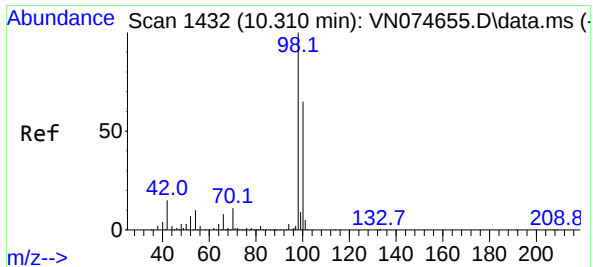
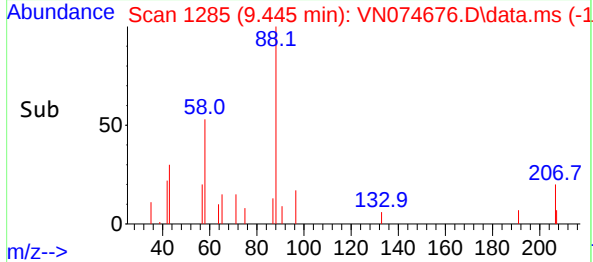
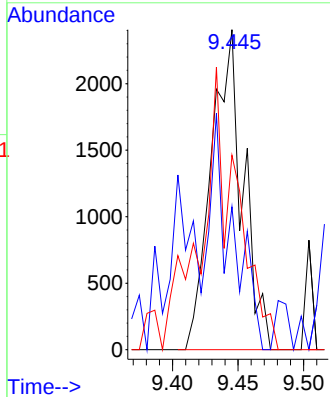
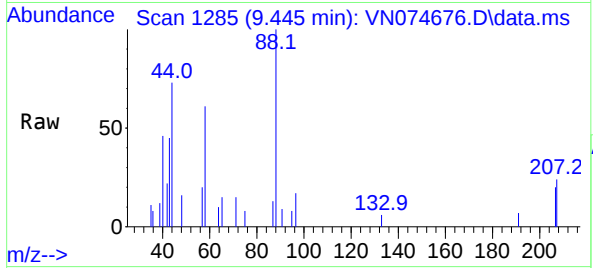




#49
1,4-Dioxane
Concen: 11.914 ug/l
RT: 9.445 min Scan# 1285
Delta R.T. 0.012 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

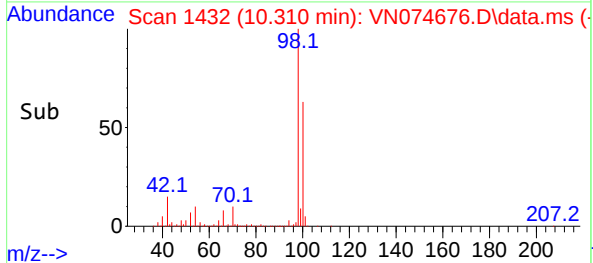
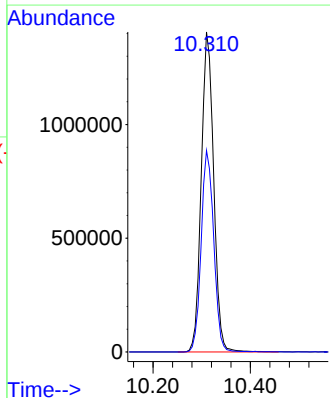
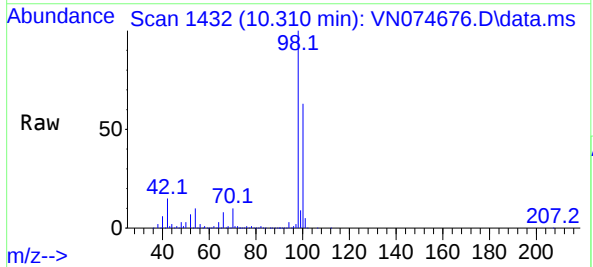
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

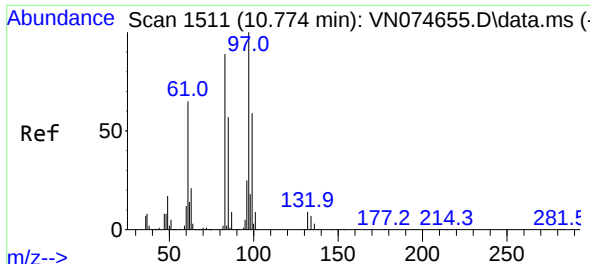
Tgt Ion:	88	Resp:	4038
Ion	Ratio	Lower	Upper
88	100		
43	52.5	20.2	30.4#
58	103.9	54.2	81.4#



#50
Toluene-d8
Concen: 51.904 ug/l
RT: 10.310 min Scan# 1432
Delta R.T. -0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion:	98	Resp:	2484504
Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.6	78.8

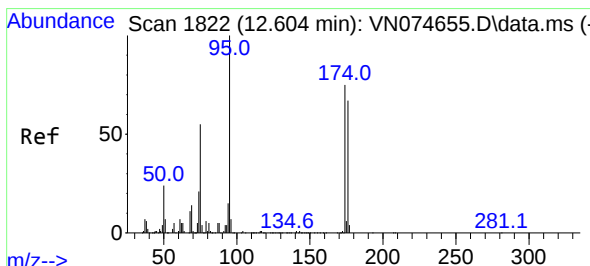
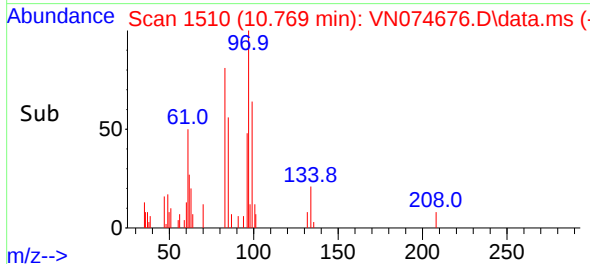
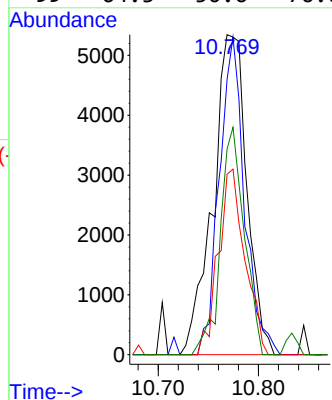
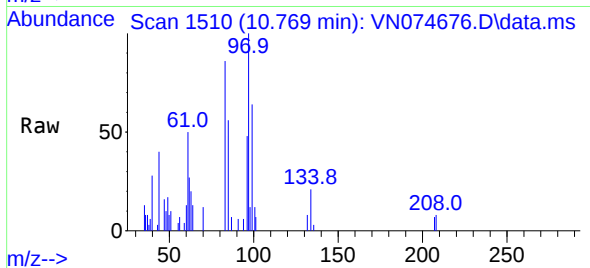




#55
1,1,2-Trichloroethane
Concen: 0.918 ug/l
RT: 10.769 min Scan# 1510
Delta R.T. -0.005 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

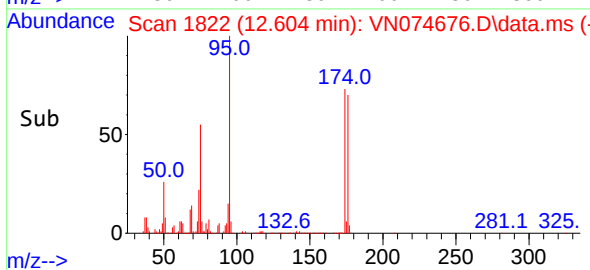
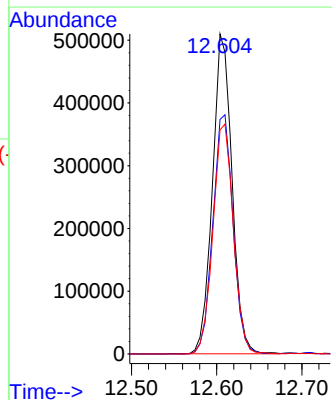
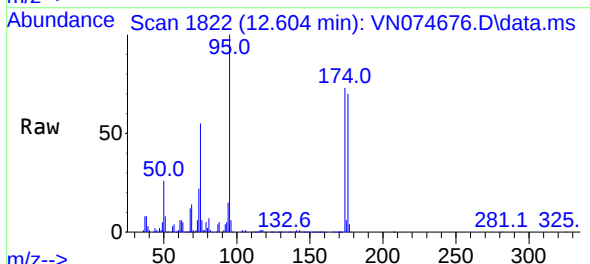
Instrument : MSVOA_N
ClientSampleId : BP-VPB-RW5-GW-678-680

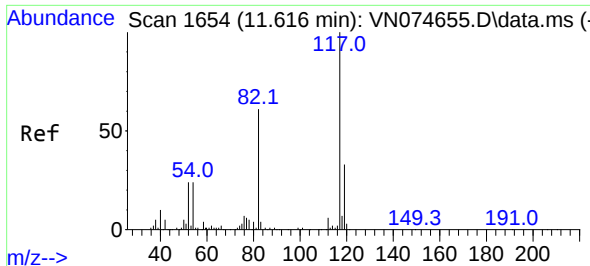
Tgt Ion:	97	Resp:	12548
Ion	Ratio	Lower	Upper
97	100		
83	86.0	66.2	99.4
85	56.4	43.9	65.9
99	64.3	50.6	76.0



#62
4-Bromofluorobenzene
Concen: 53.514 ug/l
RT: 12.604 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion:	95	Resp:	812240
Ion	Ratio	Lower	Upper
95	100		
174	77.6	0.0	167.6
176	75.2	0.0	163.4

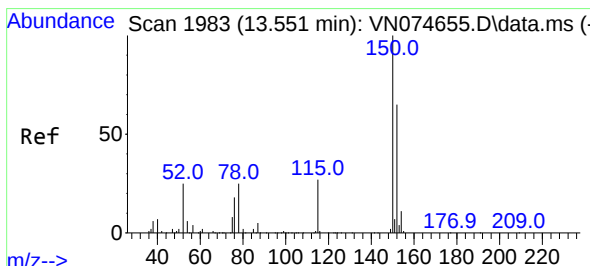
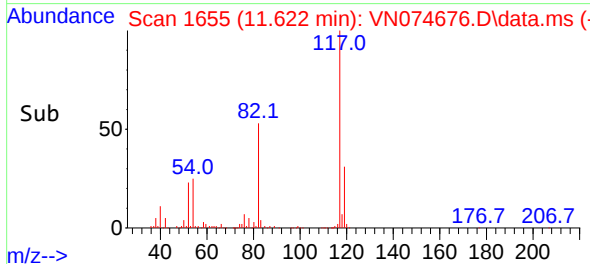
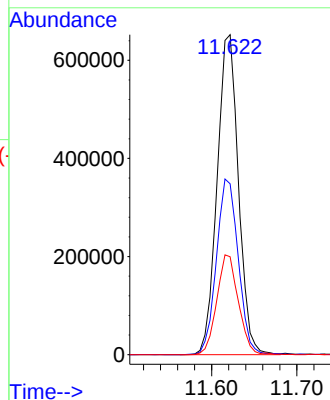
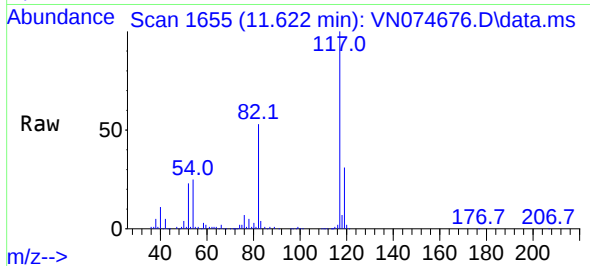




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

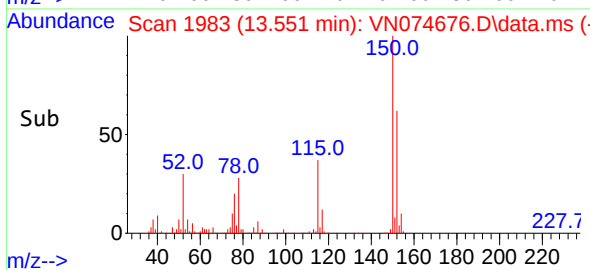
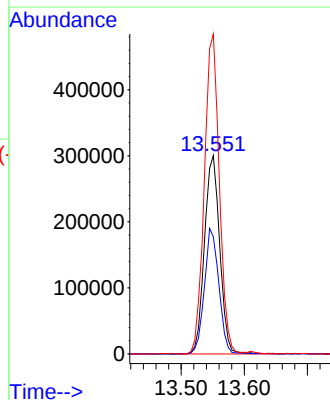
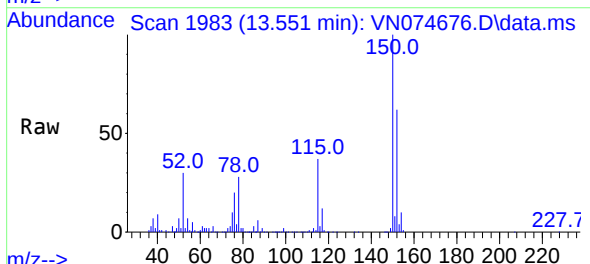
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

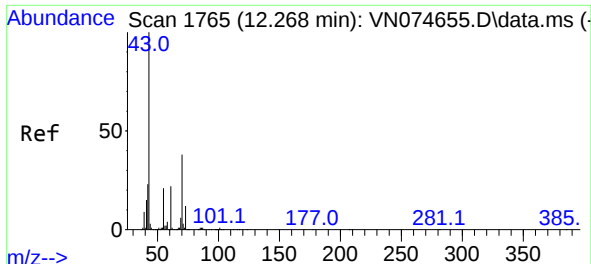
Tgt Ion:117 Resp: 1133594
Ion Ratio Lower Upper
117 100
82 53.4 44.2 66.2
119 30.6 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.551 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion:152 Resp: 505472
Ion Ratio Lower Upper
152 100
115 60.0 28.9 86.7
150 157.7 0.0 356.2

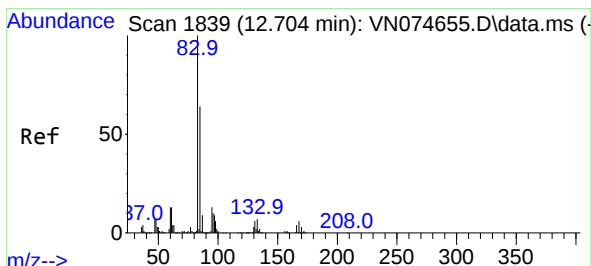
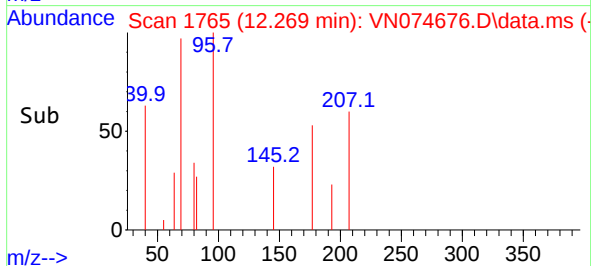
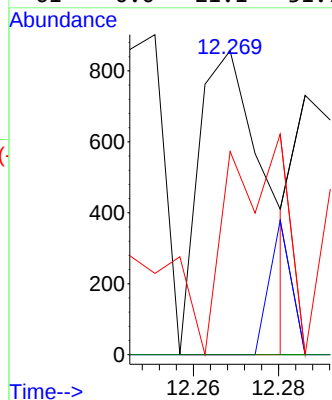
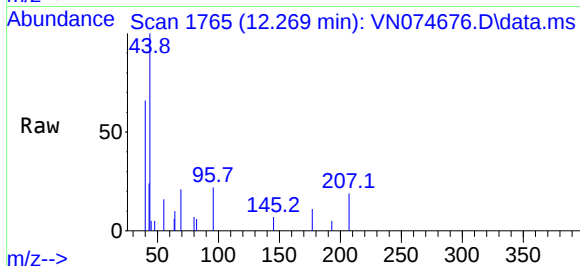




#74
N-amy1 acetate
Concen: Below Cal
RT: 12.269 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

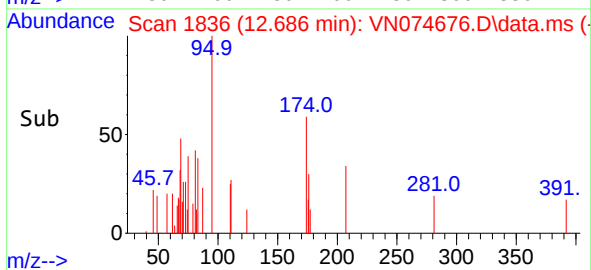
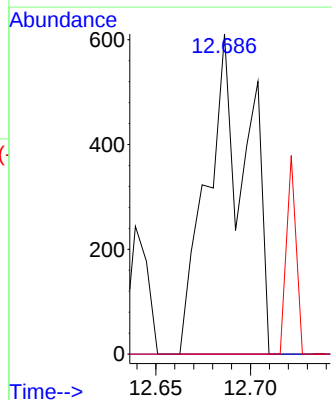
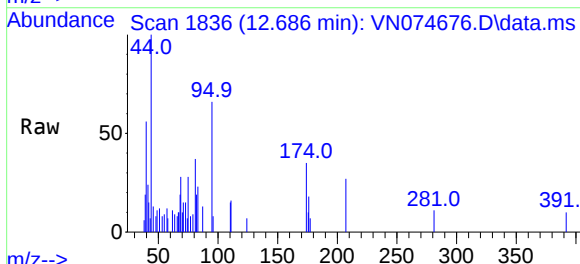
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

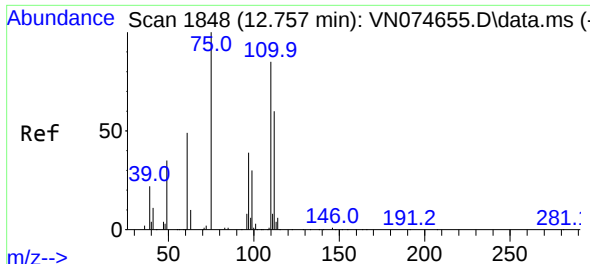
Tgt Ion: 43	Resp:	916
Ion	Ratio	Lower Upper
43	100	
70	0.0	39.0 58.4#
55	0.0	21.1 31.7#
61	0.0	21.1 31.7#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.686 min Scan# 1836
Delta R.T. -0.018 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

Tgt Ion: 83	Resp:	917
Ion	Ratio	Lower Upper
83	100	
131	0.0	5.3 15.9#
85	0.0	32.3 96.9#

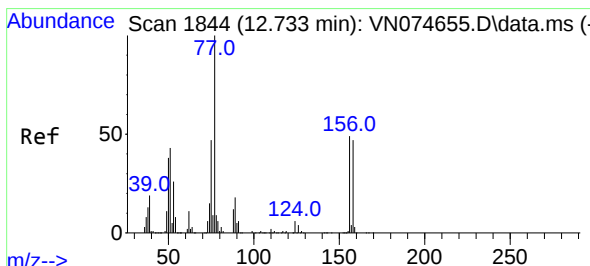
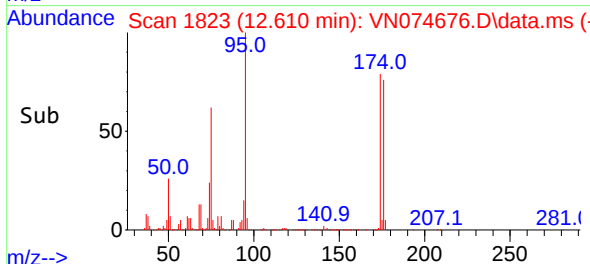
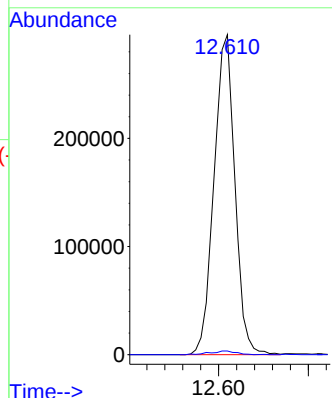
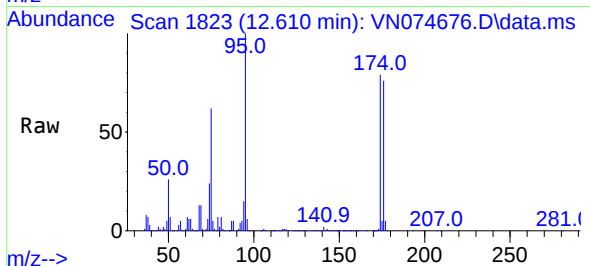




#76
1,2,3-Trichloropropane
Concen: 41.901 ug/l
RT: 12.610 min Scan# 1823
Delta R.T. -0.147 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

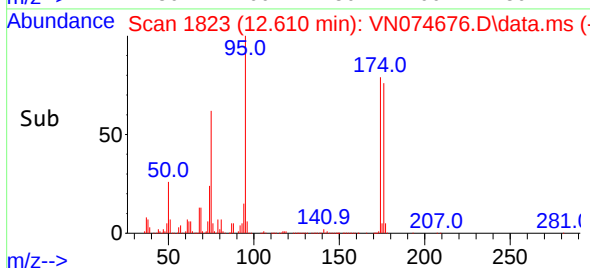
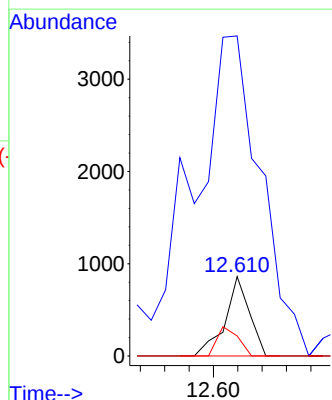
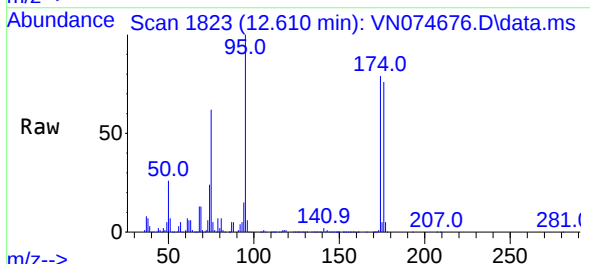
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-678-680

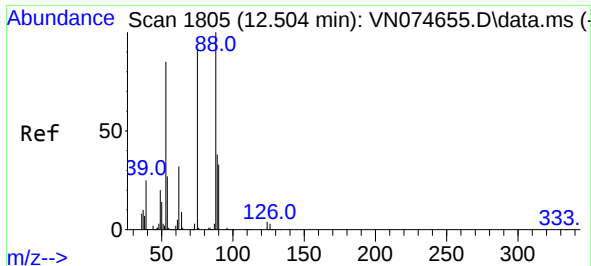
Tgt Ion: 75 Resp: 477563
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#



#77
Bromobenzene
Concen: Below Cal
RT: 12.610 min Scan# 1823
Delta R.T. -0.123 min
Lab File: VN074676.D
Acq: 30 Sep 2022 18:53

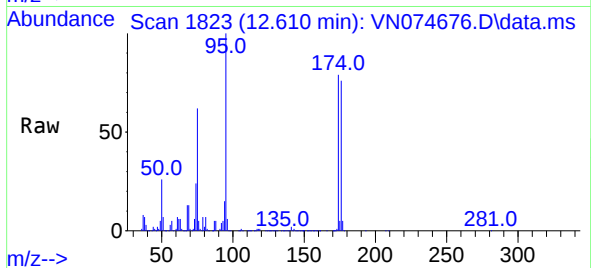
Tgt Ion:156 Resp: 595
Ion Ratio Lower Upper
156 100
77 1181.3 100.5 301.5#
158 31.6 48.9 146.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.953 ug/l
 RT: 12.610 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN074676.D
 Acq: 30 Sep 2022 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW5-GW-678-680



Tgt Ion: 75 Resp: 477563
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.0 117.0#
 89 0.0 37.2 55.8#

