

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120421\
 Data File : VN069768.D
 Acq On : 4 Dec 2021 16:22
 Operator : JC/MD
 Sample : M4922-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 00:17:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

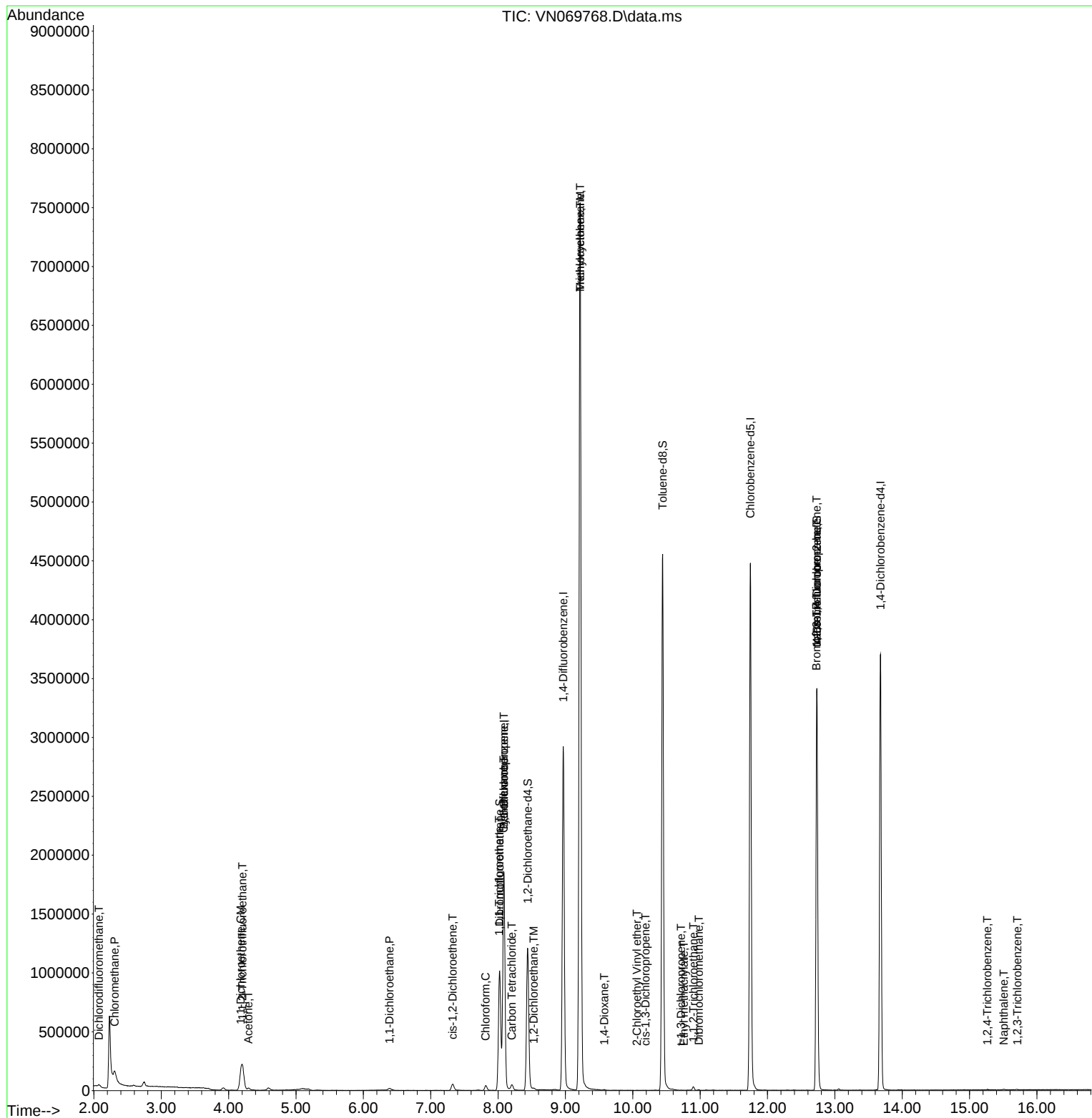
Internal Standards						
1) Pentafluorobenzene	8.088	168	1376694	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2446228	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2498094	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	991969	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1052702	49.525	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.040%
35) Dibromofluoromethane	8.024	113	737297	48.118	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.240%
50) Toluene-d8	10.443	98	3077807	50.025	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.040%
62) 4-Bromofluorobenzene	12.733	95	1193527	53.547	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	12123	0.755	ug/l	94
3) Chloromethane	2.306	50	6120	0.304	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.205	101	116984	8.596	ug/l	95
12) 1,1-Dichloroethene	4.181	96	54510	4.157	ug/l	92
16) Acetone	4.293	43	28450	2.225	ug/l	99
24) 1,1-Dichloroethane	6.388	63	19451	0.650	ug/l	98
27) cis-1,2-Dichloroethene	7.327	96	25289	1.470	ug/l	96
30) Chloroform	7.815	83	38842	1.285	ug/l	100
31) Cyclohexane	8.083	56	35762	1.209	ug/l #	22
32) 1,1,1-Trichloroethane	8.016	97	9713	0.377	ug/l #	47
36) 1,1-Dichloropropene	8.086	75	118468	5.087	ug/l #	50
38) Carbon Tetrachloride	8.204	117	31182	1.365	ug/l	97
39) Methylcyclohexane	9.217	83	34445	1.244	ug/l #	1
42) 1,2-Dichloroethane	8.528	62	7118	0.248	ug/l	87
44) Trichloroethene	9.217	130	2639304	155.351	ug/l	92
49) 1,4-Dioxane	9.577	88	4551	10.596	ug/l #	77
53) t-1,3-Dichloropropene	10.717	75	170	2.800	ug/l #	54
54) cis-1,3-Dichloropropene	10.188	75	132	2.003	ug/l #	53
55) 1,1,2-Trichloroethane	10.899	97	9047	0.516	ug/l #	86
56) Ethyl methacrylate	10.757	69	113	2.282	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.062	63	96	18.399	ug/l	97
60) Dibromochloromethane	10.982	129	679	2.411	ug/l #	11
71) Bromoform	12.728	173	3413	2.942	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	674294	23.703	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	674294	75.338	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	779	2.923	ug/l	90
95) Naphthalene	15.507	128	3828	4.058	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.708	180	1115	2.502	ug/l	94

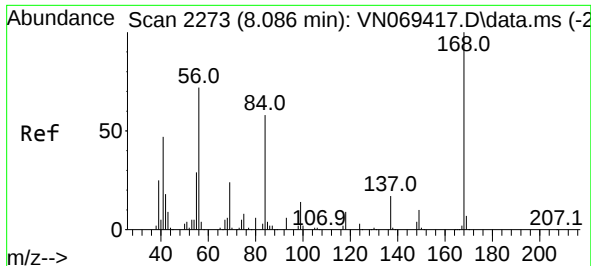
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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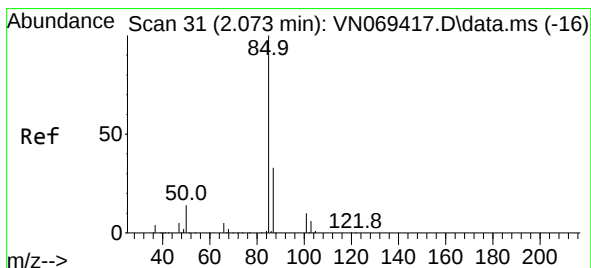
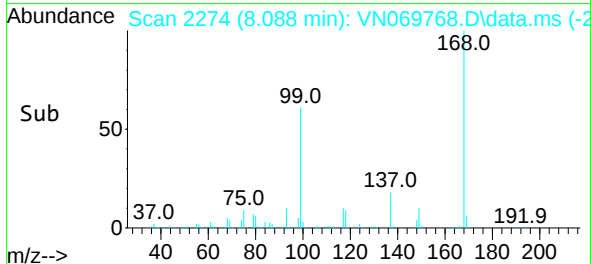
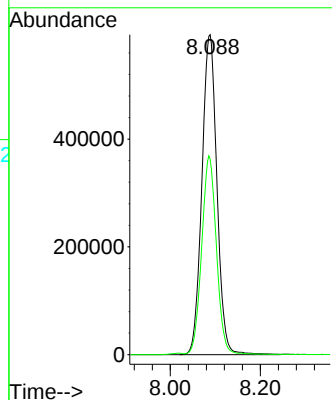
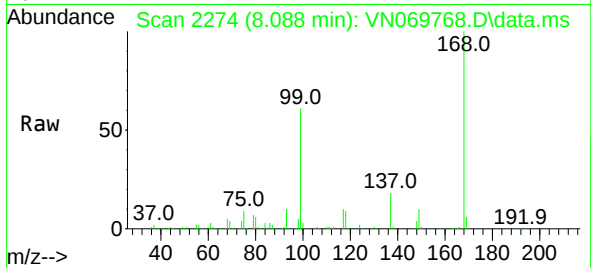




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

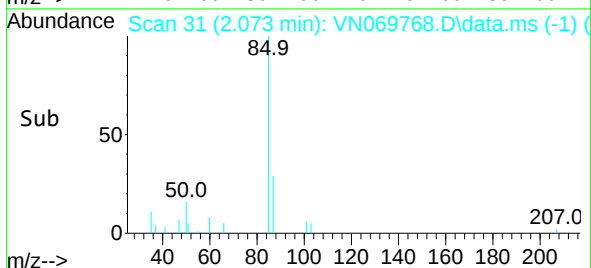
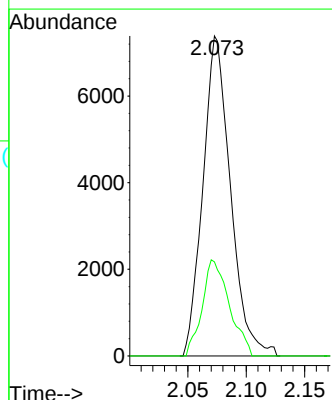
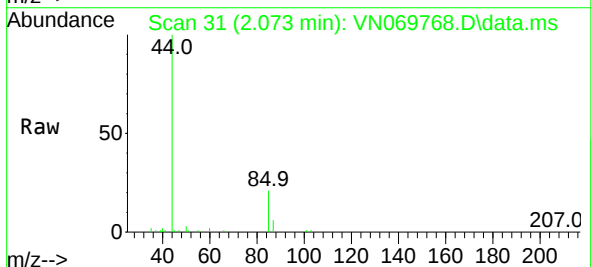
Instrument :
MSVOA_N
ClientSampleId :

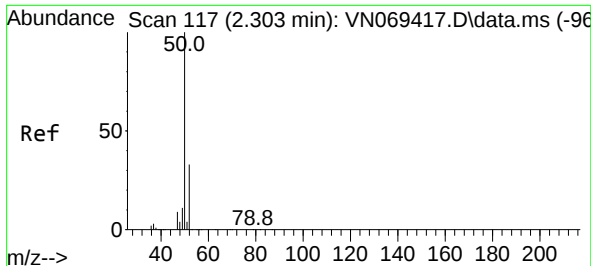
Tgt Ion:168 Resp: 1376694
Ion Ratio Lower Upper
168 100
99 61.0 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.755 ug/l
RT: 2.073 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 85 Resp: 12123
Ion Ratio Lower Upper
85 100
87 29.4 16.3 48.9

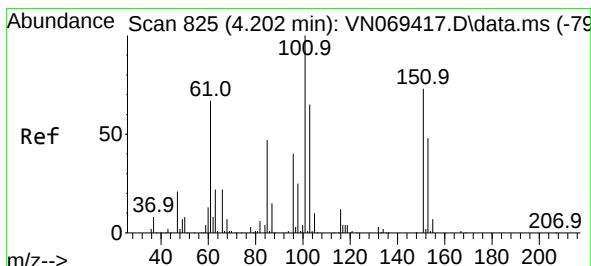
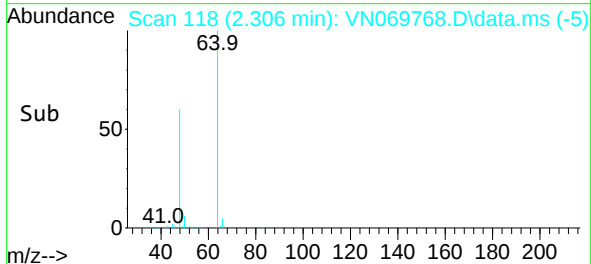
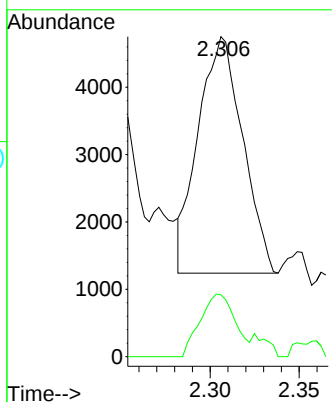
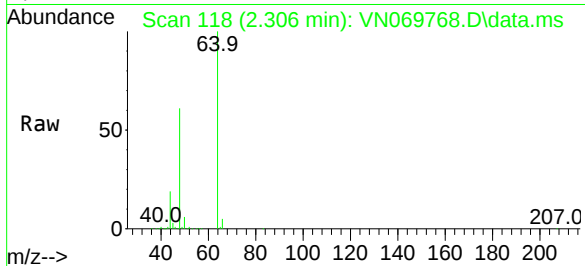




#3
Chloromethane
Concen: 0.304 ug/l
RT: 2.306 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

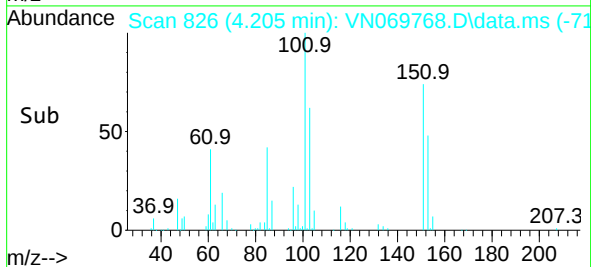
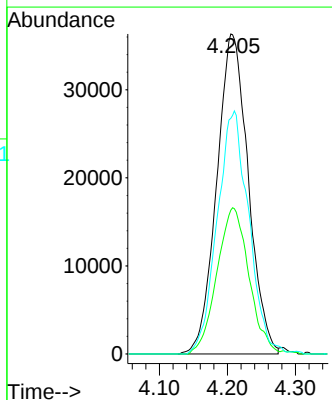
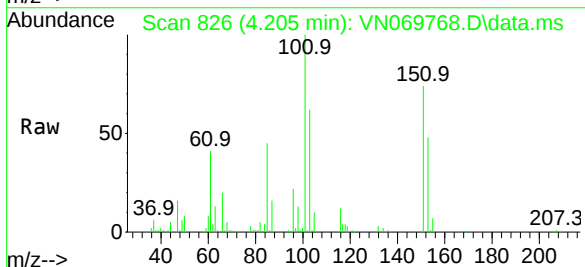
Instrument :
MSVOA_N
ClientSampleId :

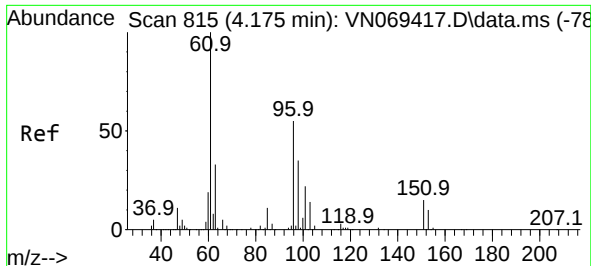
Tgt Ion: 50 Resp: 6120
Ion Ratio Lower Upper
50 100
52 26.1 25.4 38.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 8.596 ug/l
RT: 4.205 min Scan# 826
Delta R.T. 0.003 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 101 Resp: 116984
Ion Ratio Lower Upper
101 100
85 46.4 37.2 55.8
151 76.1 65.9 98.9





#12

1,1-Dichloroethene

Concen: 4.157 ug/l

RT: 4.181 min Scan# 815

Delta R.T. 0.005 min

Lab File: VN069768.D

Acq: 4 Dec 2021 16:22

Instrument :

MSVOA_N

ClientSampleId :

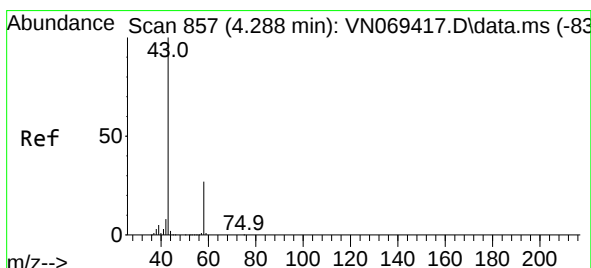
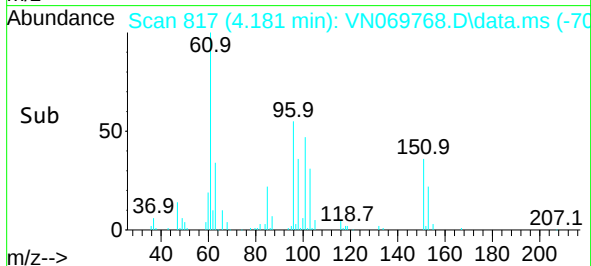
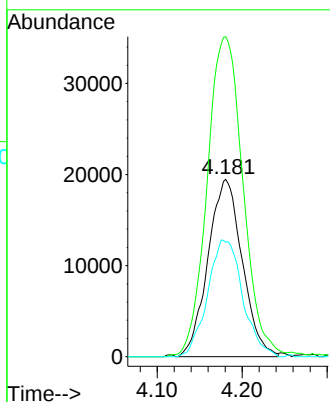
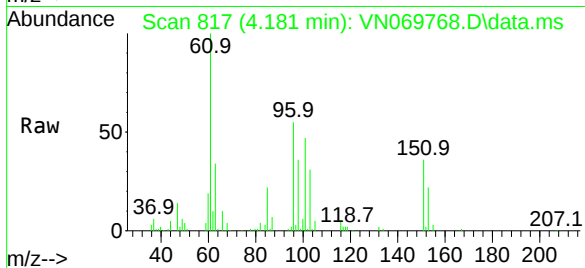
Tgt Ion: 96 Resp: 54510

Ion Ratio Lower Upper

96 100

61 178.9 131.0 196.6

98 64.6 52.4 78.6



#16

Acetone

Concen: 2.225 ug/l

RT: 4.293 min Scan# 859

Delta R.T. 0.003 min

Lab File: VN069768.D

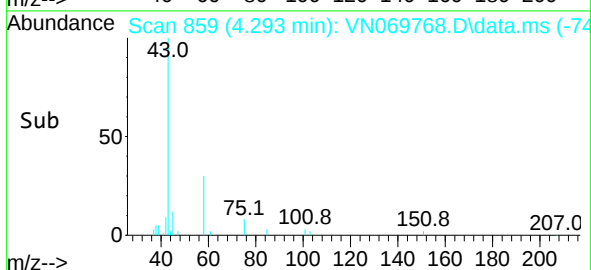
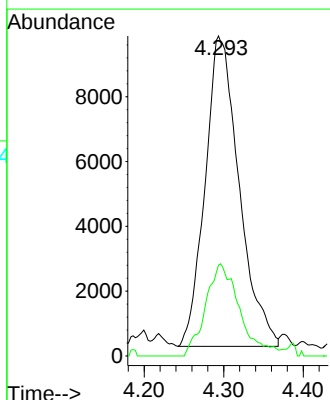
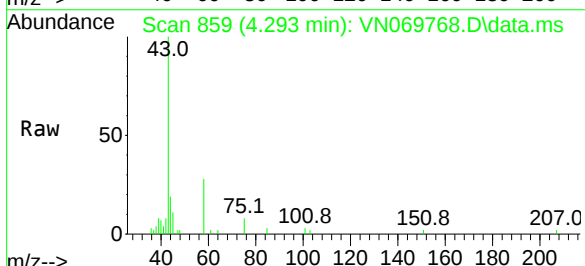
Acq: 4 Dec 2021 16:22

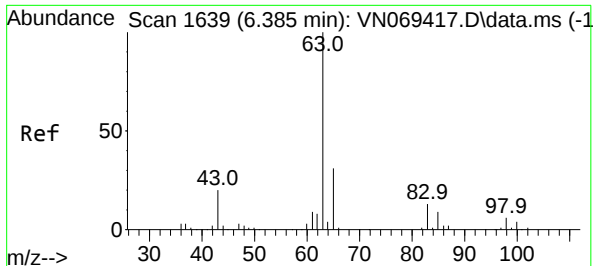
Tgt Ion: 43 Resp: 28450

Ion Ratio Lower Upper

43 100

58 29.3 23.1 34.7





#24

1,1-Dichloroethane

Concen: 0.650 ug/l

RT: 6.388 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN069768.D

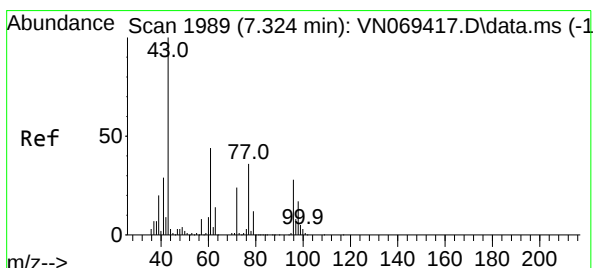
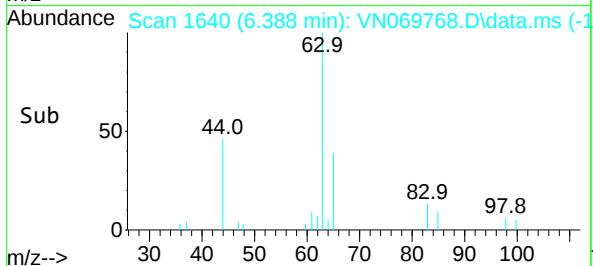
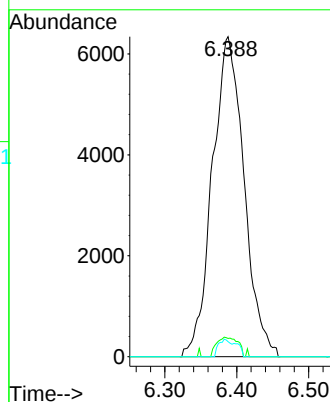
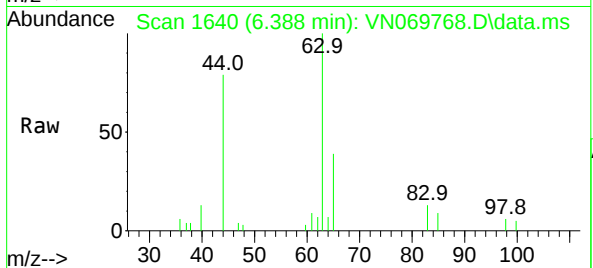
Acq: 4 Dec 2021 16:22

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 63	Resp: 19451
Ion Ratio	Lower Upper
63 100	
98 5.7	3.3 9.9
100 4.7	2.1 6.5



#27

cis-1,2-Dichloroethene

Concen: 1.470 ug/l

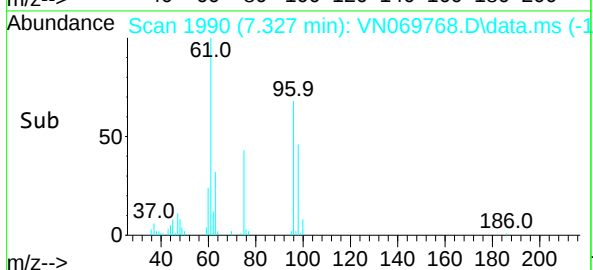
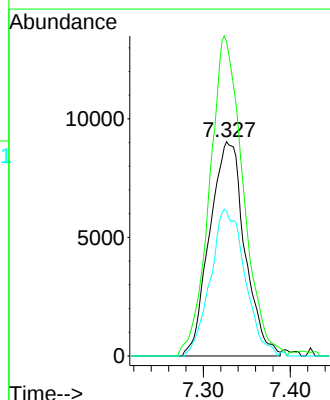
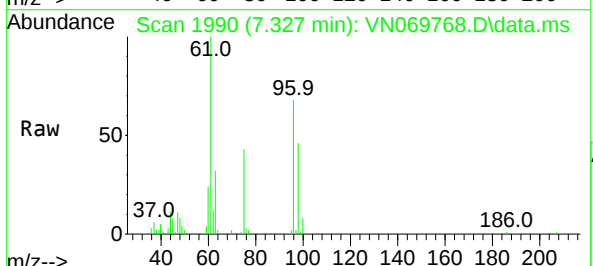
RT: 7.327 min Scan# 1990

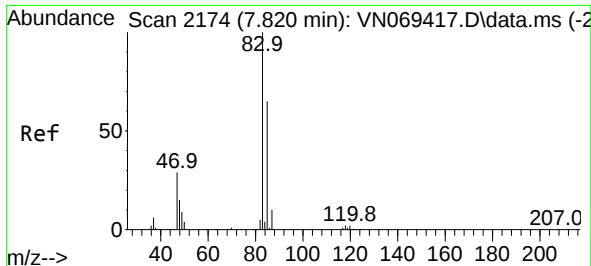
Delta R.T. 0.000 min

Lab File: VN069768.D

Acq: 4 Dec 2021 16:22

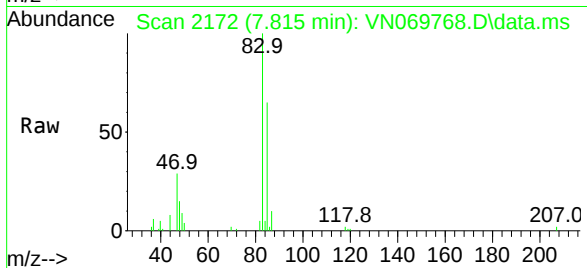
Tgt Ion: 96	Resp: 25289
Ion Ratio	Lower Upper
96 100	
61 142.7	0.0 275.0
98 67.4	0.0 129.6



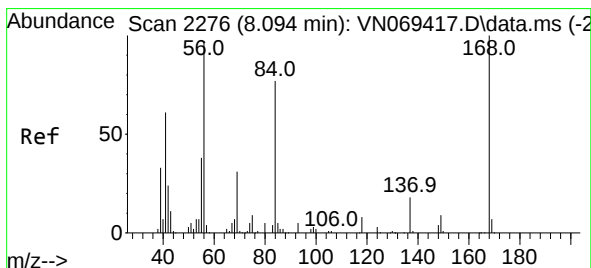
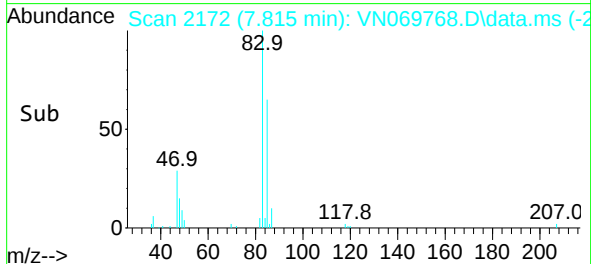
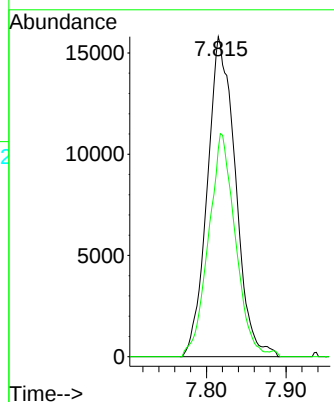


#30
Chloroform
Concen: 1.285 ug/l
RT: 7.815 min Scan# 2174
Delta R.T. -0.005 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Instrument :
MSVOA_N
ClientSampleId :

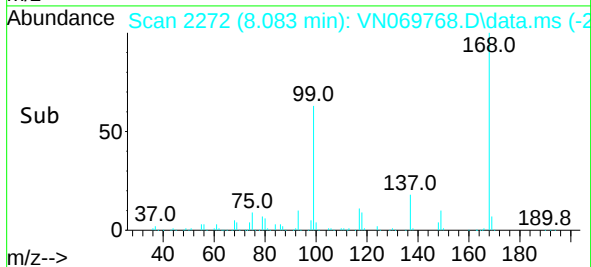
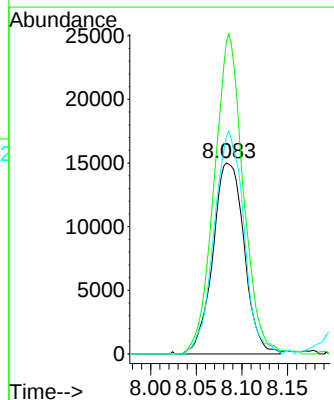
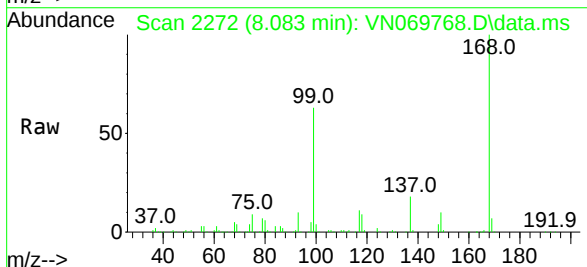


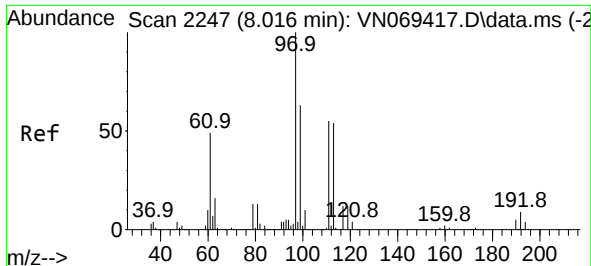
Tgt Ion: 83 Resp: 38842
Ion Ratio Lower Upper
83 100
85 64.8 51.9 77.9



#31
Cyclohexane
Concen: 1.209 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 56 Resp: 35762
Ion Ratio Lower Upper
56 100
69 163.8 27.1 40.7#
84 113.9 73.4 110.0#

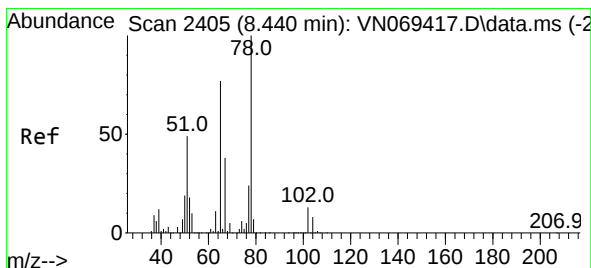
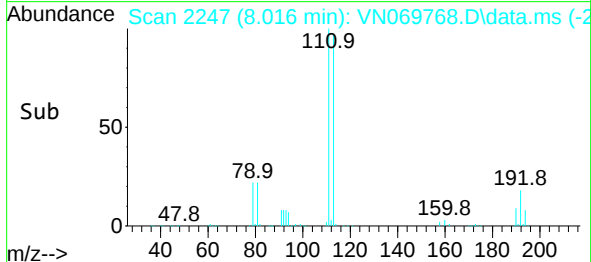
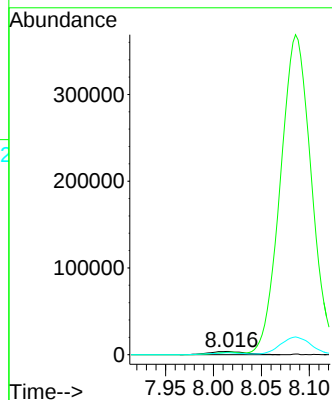
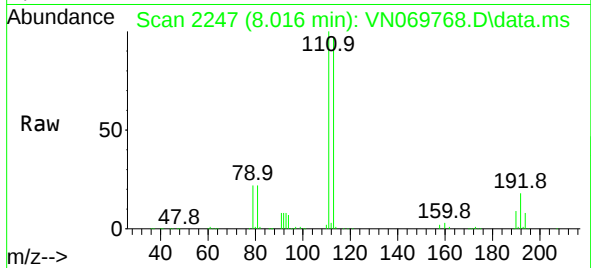




#32
1,1,1-Trichloroethane
Concen: 0.377 ug/l
RT: 8.016 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

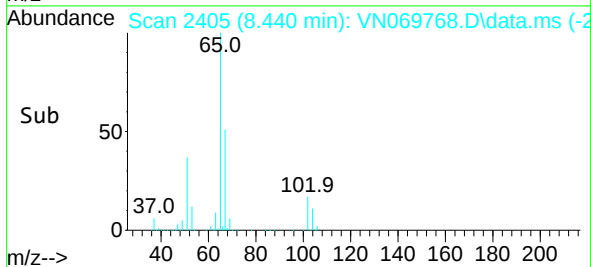
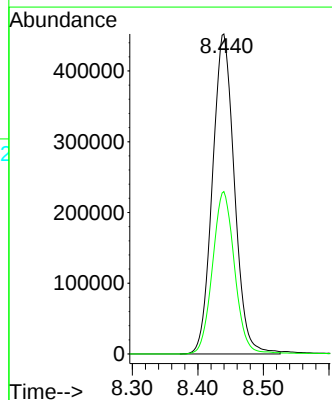
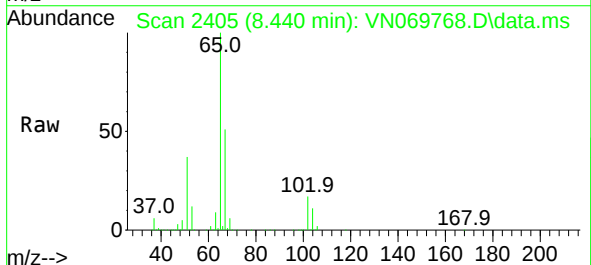
Instrument :
MSVOA_N
ClientSampleId :

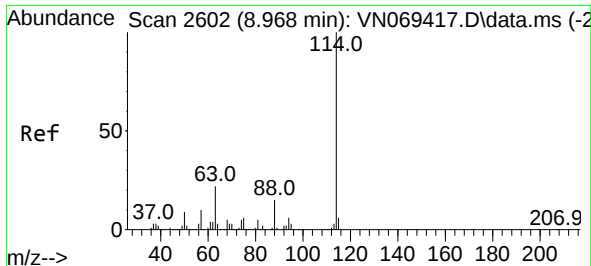
Tgt Ion: 97 Resp: 9713
Ion Ratio Lower Upper
97 100
99 0.0 50.1 75.1#
61 52.4 35.2 52.8



#33
1,2-Dichloroethane-d4
Concen: 49.525 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

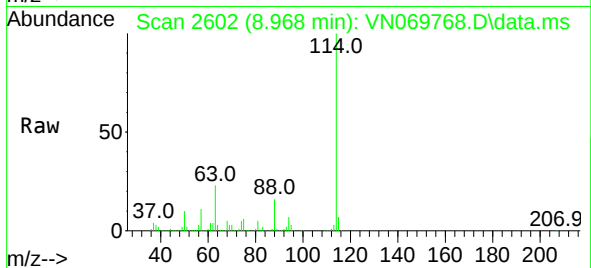
Tgt Ion: 65 Resp: 1052702
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.0





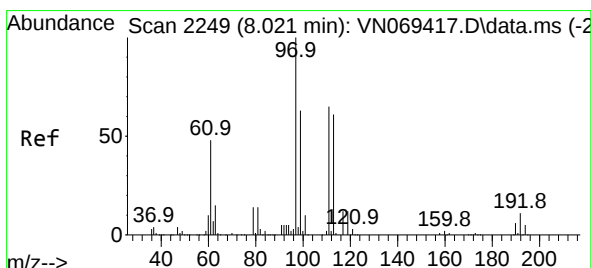
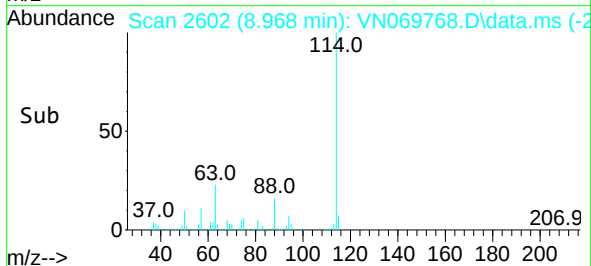
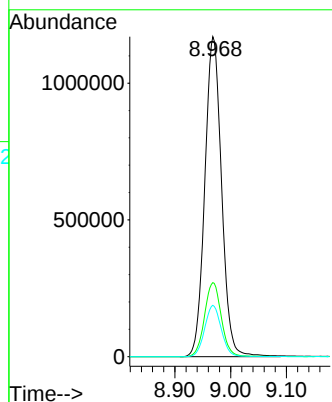
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:114 Resp: 2446228

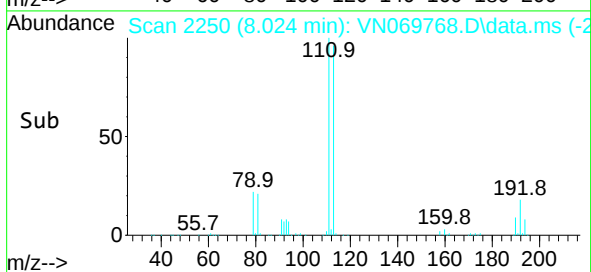
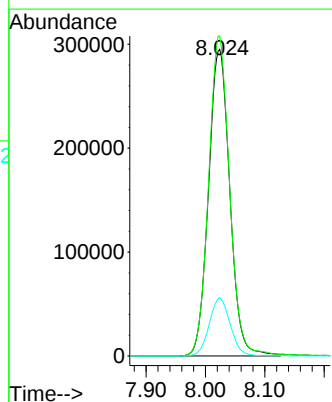
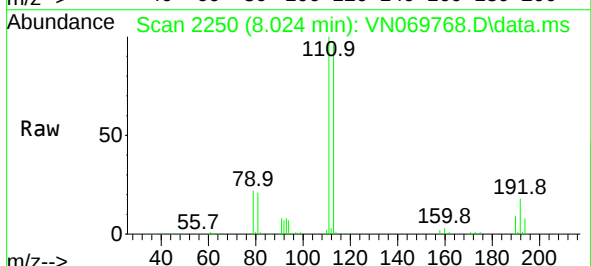
Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	37.8
88	16.1	0.0	27.4

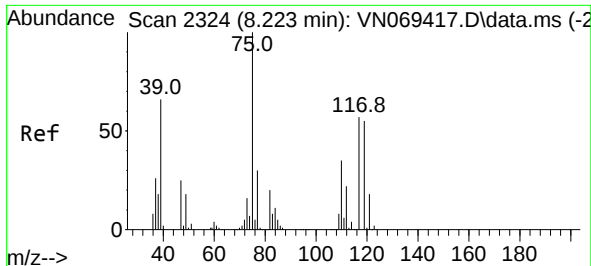


#35
Dibromofluoromethane
Concen: 48.118 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion:113 Resp: 737297

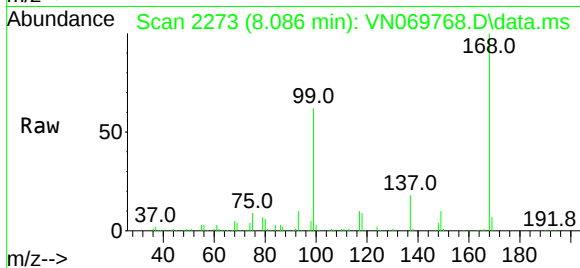
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.2
192	18.6	16.9	25.3



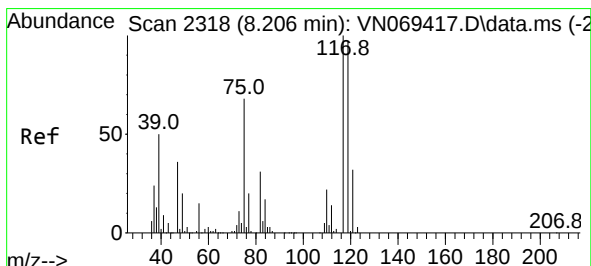
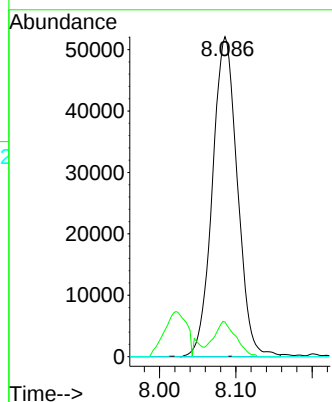
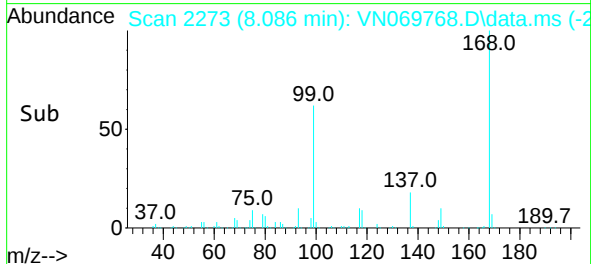


#36
1,1-Dichloropropene
Concen: 5.087 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.137 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

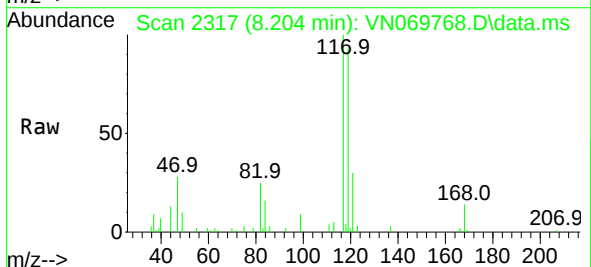
Instrument :
MSVOA_N
ClientSampleId :



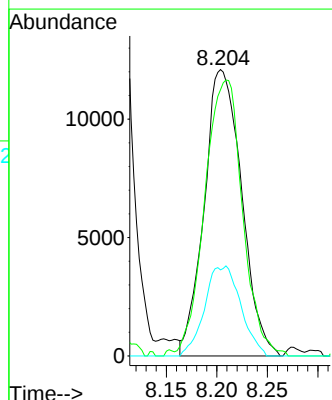
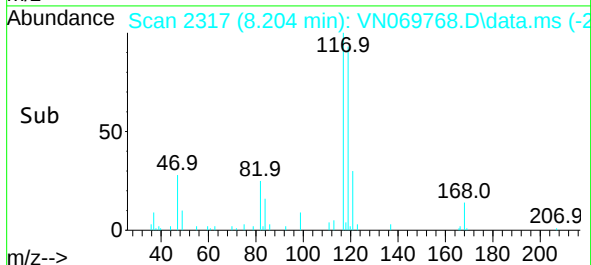
Tgt Ion: 75 Resp: 118468
Ion Ratio Lower Upper
75 100
110 9.7 18.4 55.2#
77 0.1 24.4 36.6#

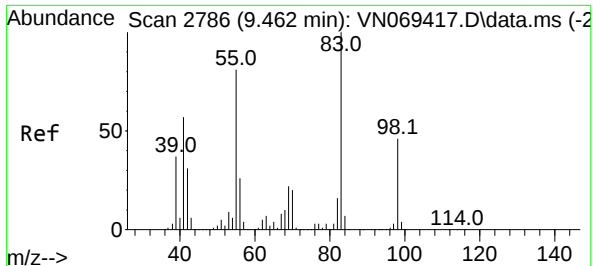


#38
Carbon Tetrachloride
Concen: 1.365 ug/l
RT: 8.204 min Scan# 2317
Delta R.T. -0.003 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22



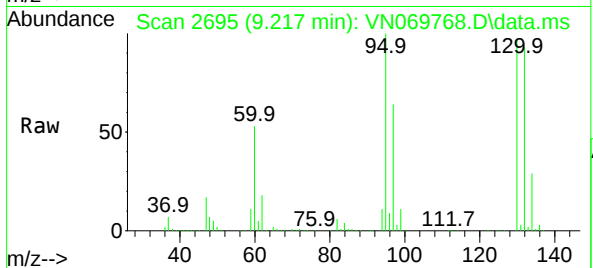
Tgt Ion: 117 Resp: 31182
Ion Ratio Lower Upper
117 100
119 91.2 76.1 114.1
121 30.1 24.2 36.2



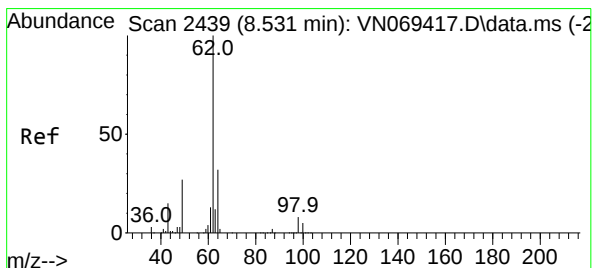
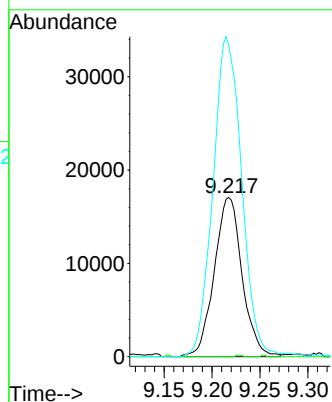
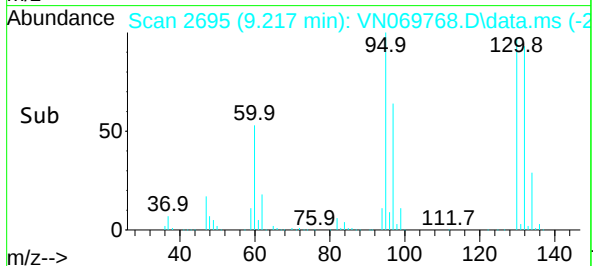


#39
Methylcyclohexane
Concen: 1.244 ug/l
RT: 9.217 min Scan# 21
Delta R.T. -0.244 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Instrument :
MSVOA_N
ClientSampleId :

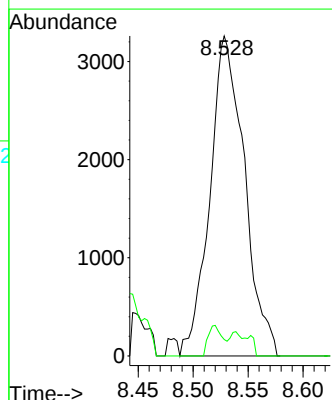
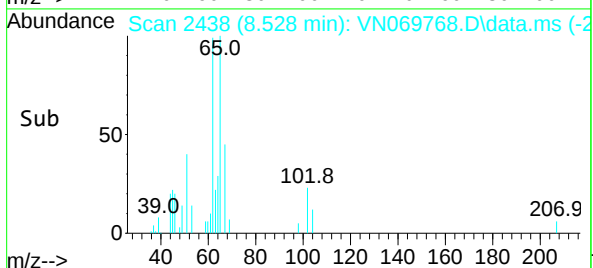
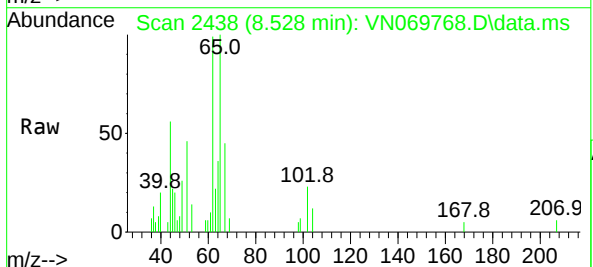


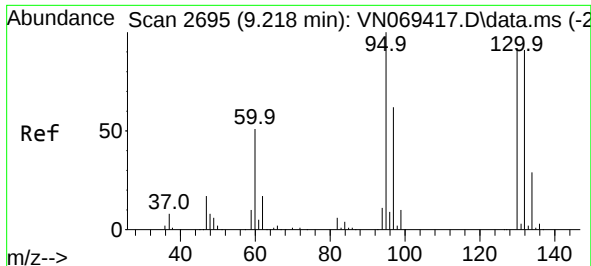
Tgt Ion: 83 Resp: 34445
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 195.7 38.4 57.6#



#42
1,2-Dichloroethane
Concen: 0.248 ug/l
RT: 8.528 min Scan# 2438
Delta R.T. -0.003 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 62 Resp: 7118
Ion Ratio Lower Upper
62 100
98 4.0 0.0 17.6

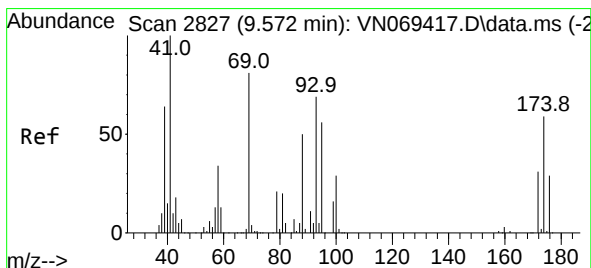
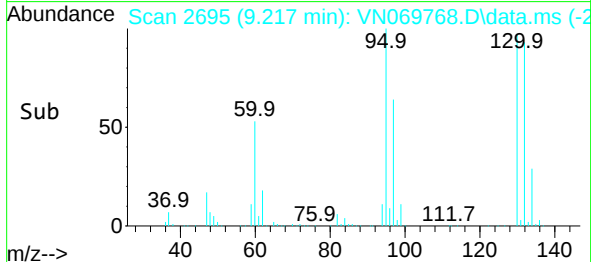
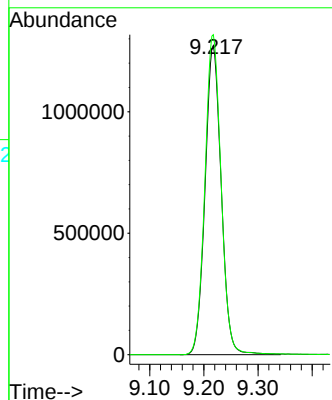
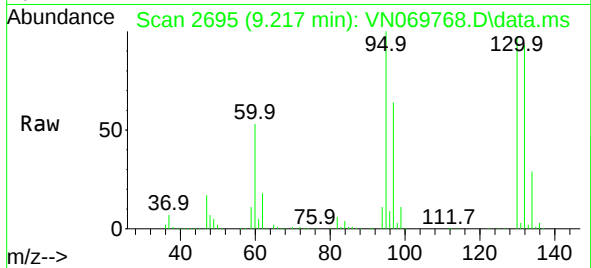




#44
Trichloroethene
Concen: 155.351 ug/l
RT: 9.217 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

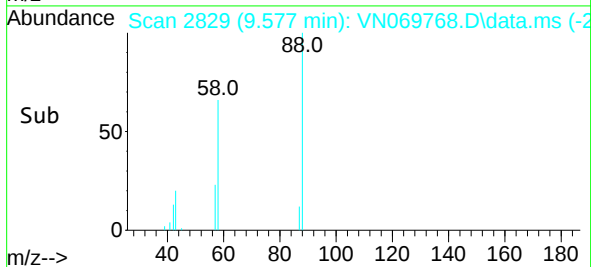
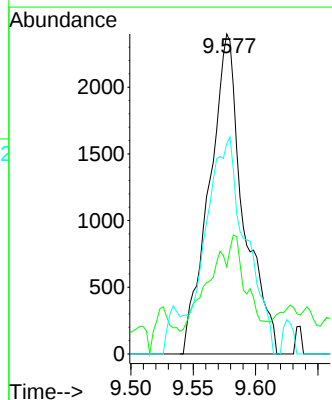
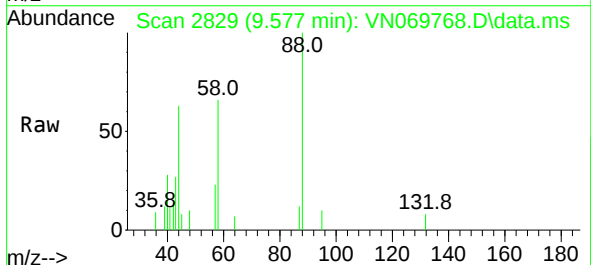
Instrument :
MSVOA_N
ClientSampleId :

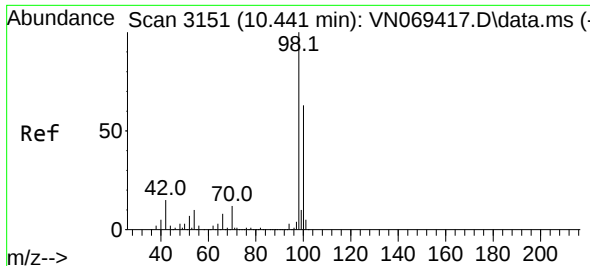
Tgt Ion:130 Resp: 2639304
Ion Ratio Lower Upper
130 100
95 103.5 0.0 191.2



#49
1,4-Dioxane
Concen: 10.596 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 88 Resp: 4551
Ion Ratio Lower Upper
88 100
43 13.7 23.4 35.2#
58 78.5 50.6 75.8#

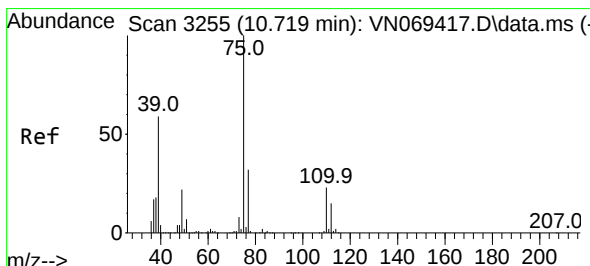
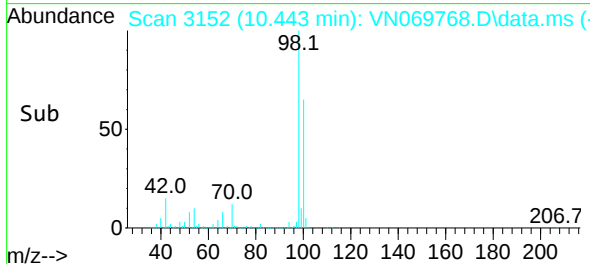
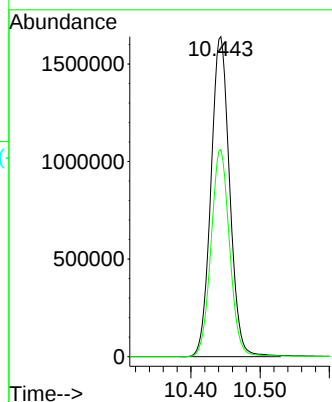
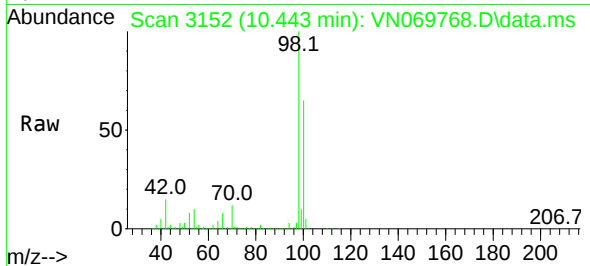




#50
Toluene-d8
Concen: 50.025 ug/l
RT: 10.443 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

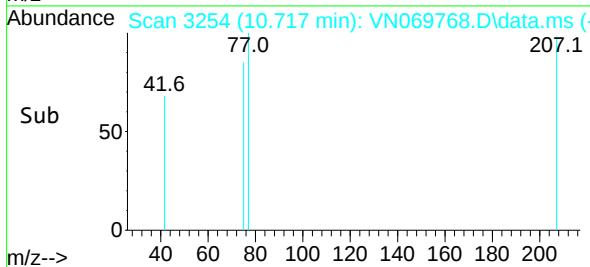
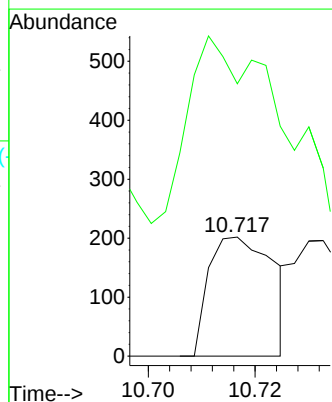
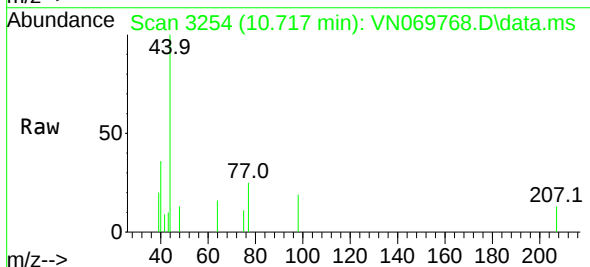
Instrument :
MSVOA_N
ClientSampleId :

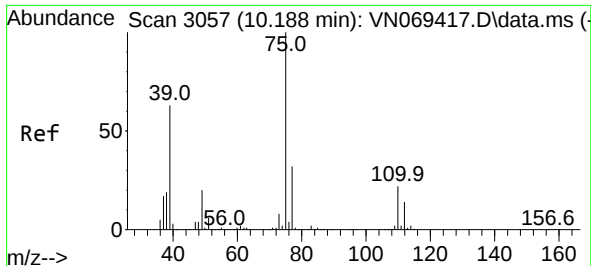
Tgt Ion: 98 Resp: 3077807
Ion Ratio Lower Upper
98 100
100 64.5 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.800 ug/l
RT: 10.717 min Scan# 3254
Delta R.T. -0.002 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

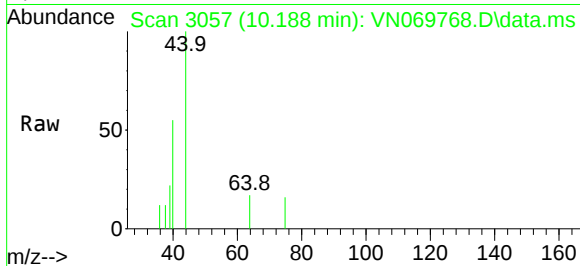
Tgt Ion: 75 Resp: 170
Ion Ratio Lower Upper
75 100
77 57.9 25.6 38.4#



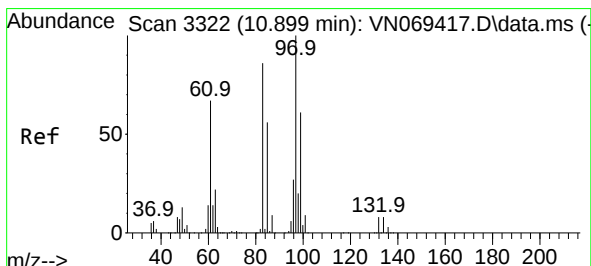
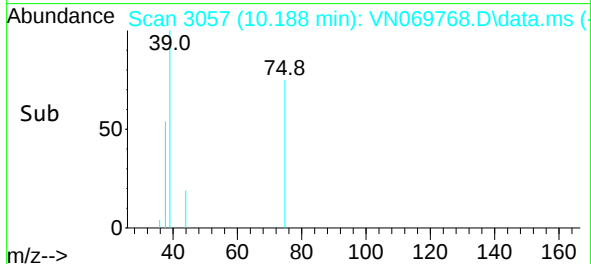
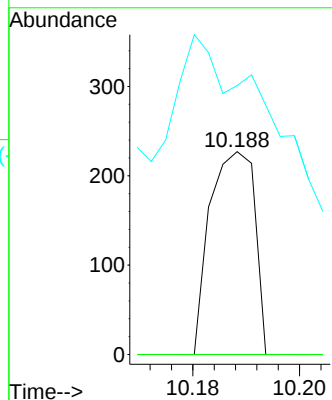


#54
 cis-1,3-Dichloropropene
 Concen: 2.003 ug/l
 RT: 10.188 min Scan# 3057
 Delta R.T. -0.003 min
 Lab File: VN069768.D
 Acq: 4 Dec 2021 16:22

Instrument :
 MSVOA_N
 ClientSampleId :

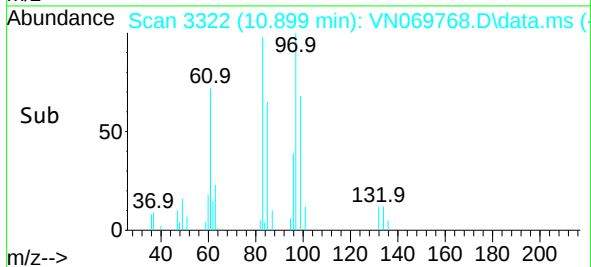
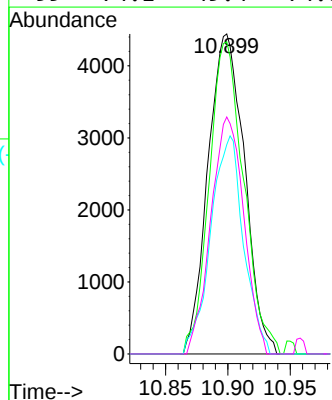
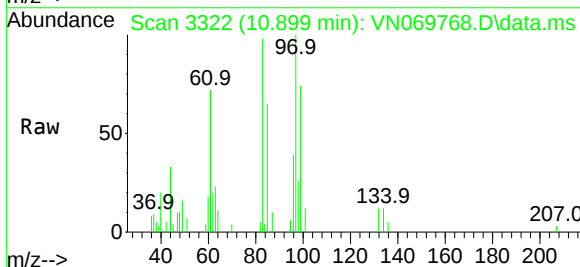


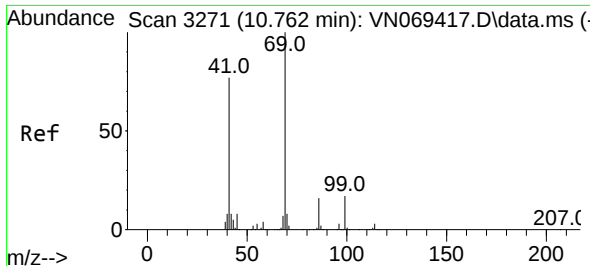
Tgt Ion: 75 Resp: 132
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.4 39.6#
 39 25.1 42.5 63.7#



#55
 1,1,2-Trichloroethane
 Concen: 0.516 ug/l
 RT: 10.899 min Scan# 3322
 Delta R.T. 0.000 min
 Lab File: VN069768.D
 Acq: 4 Dec 2021 16:22

Tgt Ion: 97 Resp: 9047
 Ion Ratio Lower Upper
 97 100
 83 97.5 67.8 101.6
 85 65.4 45.4 68.2
 99 74.1 49.4 74.0#

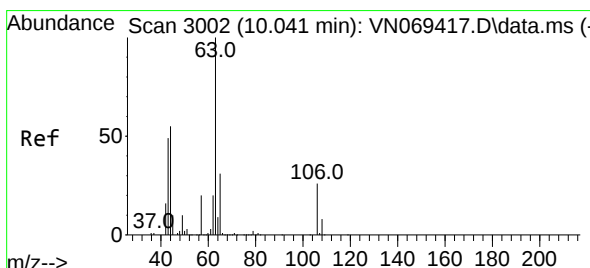
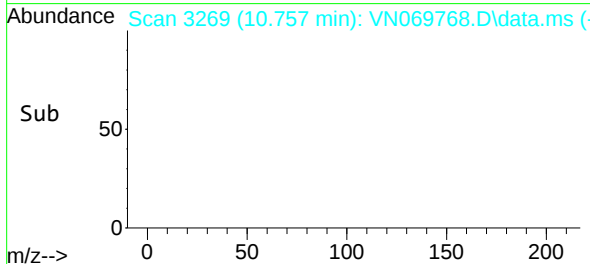
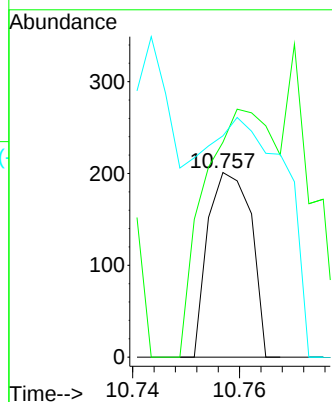
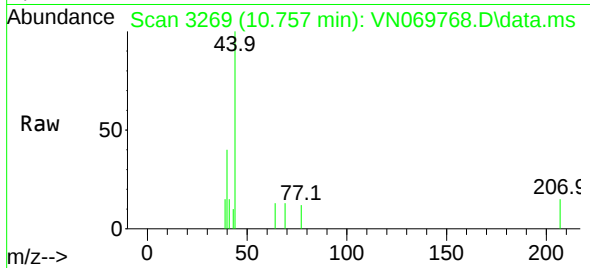




#56
Ethyl methacrylate
Concen: 2.282 ug/l
RT: 10.757 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

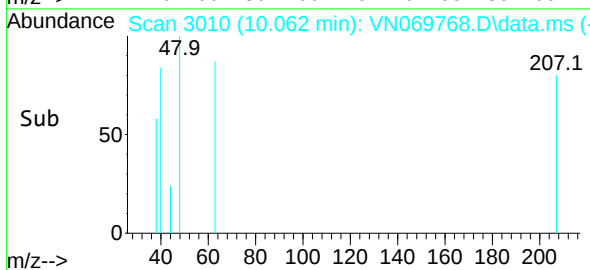
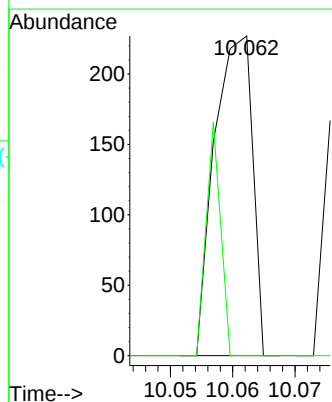
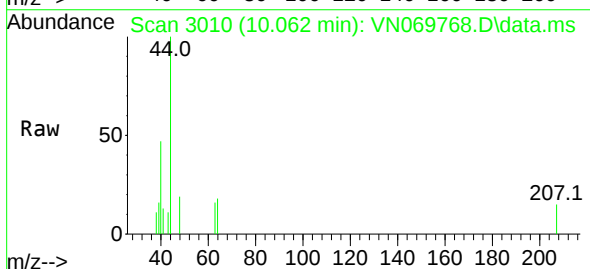
Instrument :
MSVOA_N
ClientSampleId :

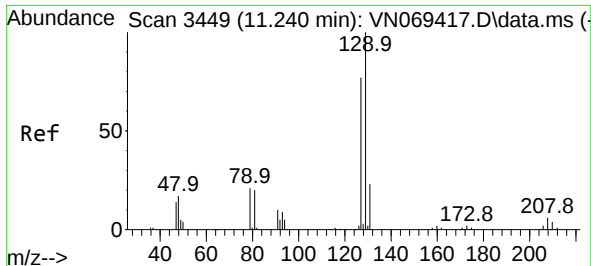
Tgt Ion: 69 Resp: 113
Ion Ratio Lower Upper
69 100
41 227.4 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.399 ug/l
RT: 10.062 min Scan# 3010
Delta R.T. 0.019 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion: 63 Resp: 96
Ion Ratio Lower Upper
63 100
106 28.1 23.9 35.9

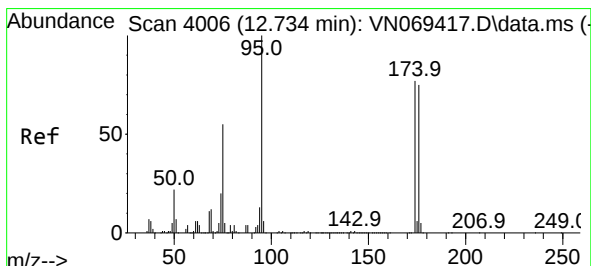
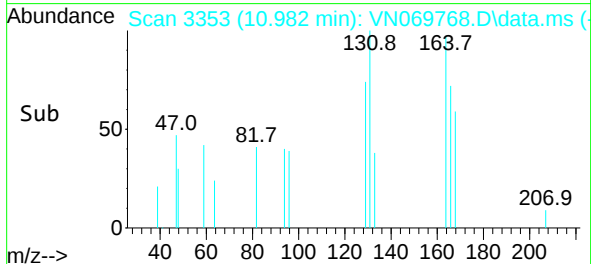
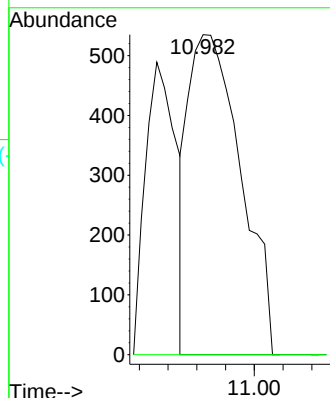
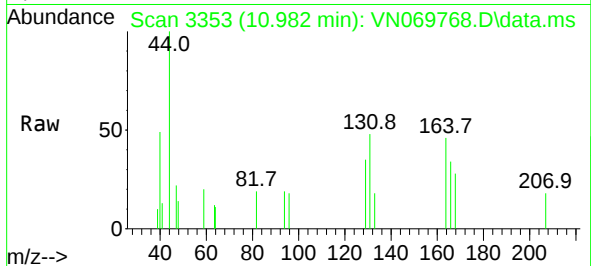




#60
Dibromochloromethane
Concen: 2.411 ug/l
RT: 10.982 min Scan# 31
Delta R.T. -0.258 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

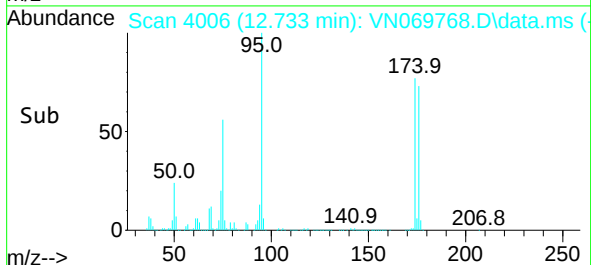
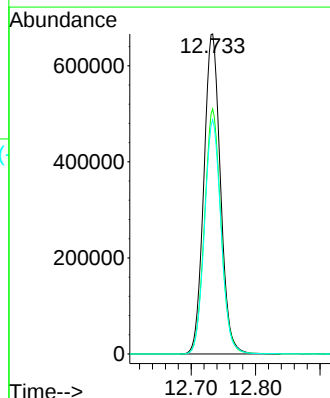
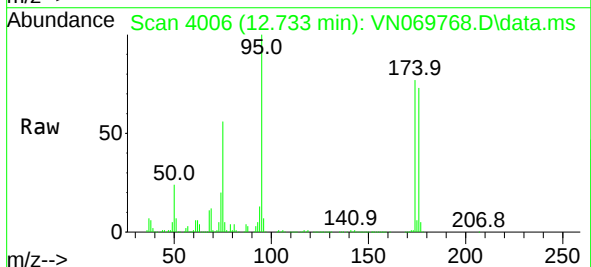
Instrument :
MSVOA_N
ClientSampleId :

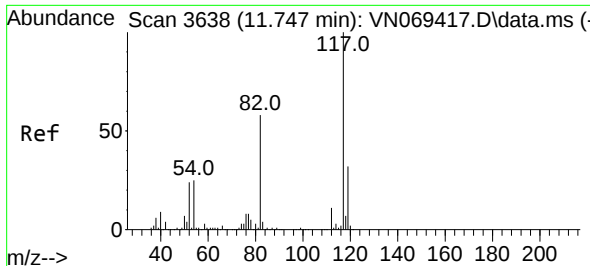
Tgt Ion:129 Resp: 679
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 53.547 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

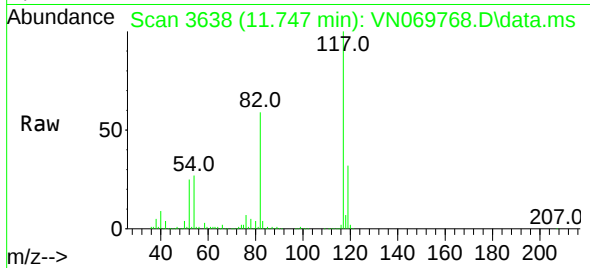
Tgt Ion: 95 Resp: 1193527
Ion Ratio Lower Upper
95 100
174 75.9 0.0 187.2
176 73.0 0.0 181.4



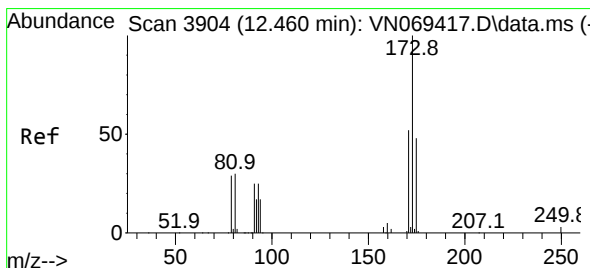
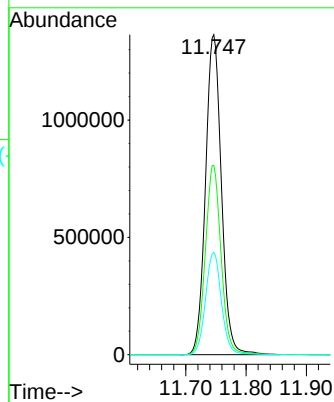
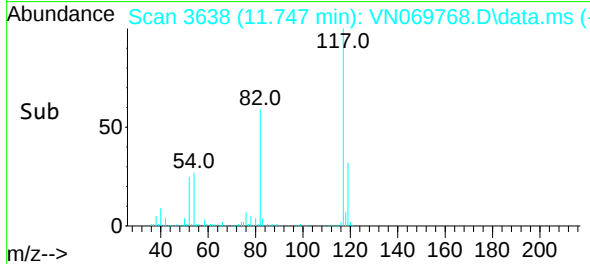


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 30
Delta R.T. 0.001 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Instrument :
MSVOA_N
ClientSampleId :

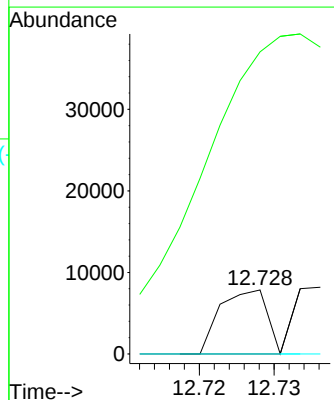
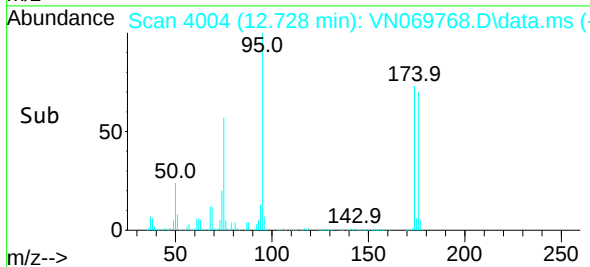
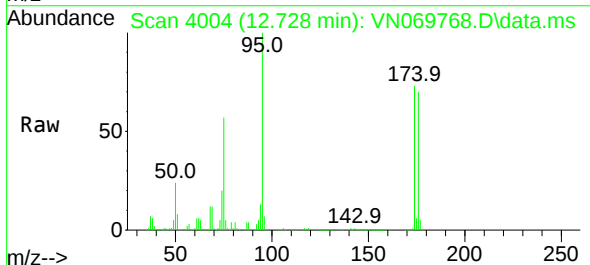


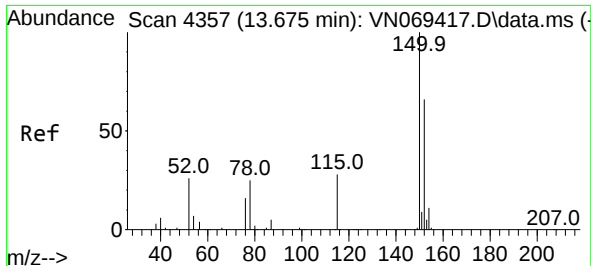
Tgt Ion:117 Resp: 2498094
Ion Ratio Lower Upper
117 100
82 59.1 42.4 63.6
119 31.9 25.4 38.2



#71
Bromoform
Concen: 2.942 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. 0.268 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

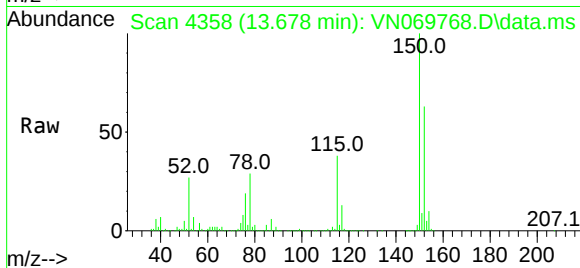
Tgt Ion:173 Resp: 3413
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



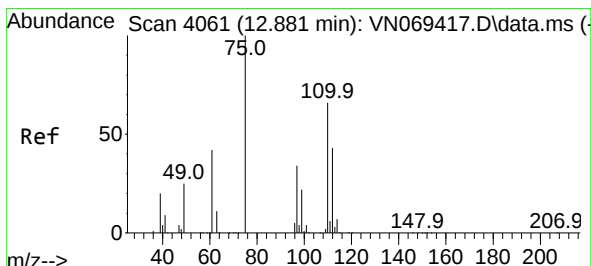
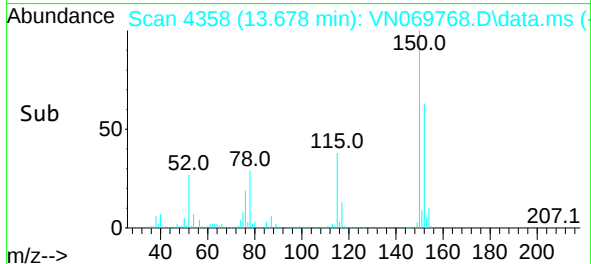
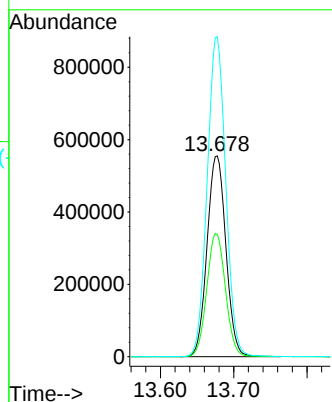


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VN069768.D
 Acq: 4 Dec 2021 16:22

Instrument :
 MSVOA_N
 ClientSampleId :

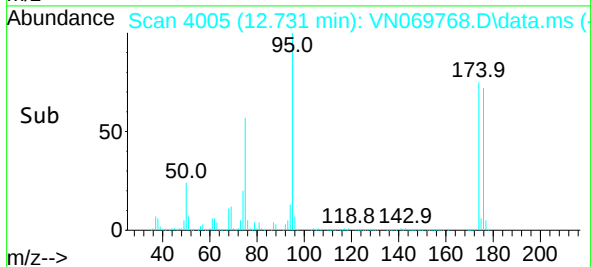
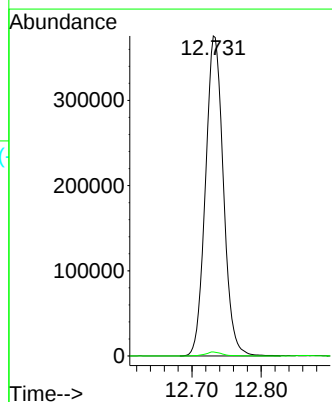
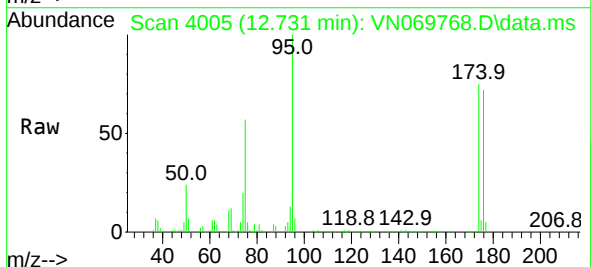


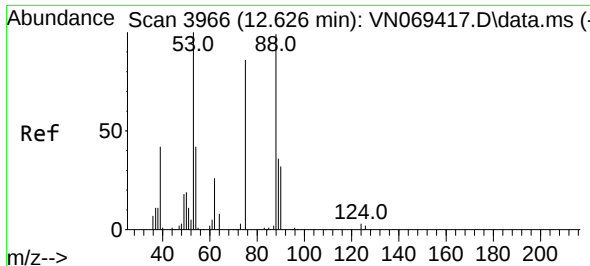
Tgt Ion:152 Resp: 991969
 Ion Ratio Lower Upper
 152 100
 115 60.8 27.5 82.5
 150 156.5 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 23.703 ug/l
 RT: 12.731 min Scan# 4005
 Delta R.T. -0.150 min
 Lab File: VN069768.D
 Acq: 4 Dec 2021 16:22

Tgt Ion: 75 Resp: 674294
 Ion Ratio Lower Upper
 75 100
 77 1.2 82.6 247.8#

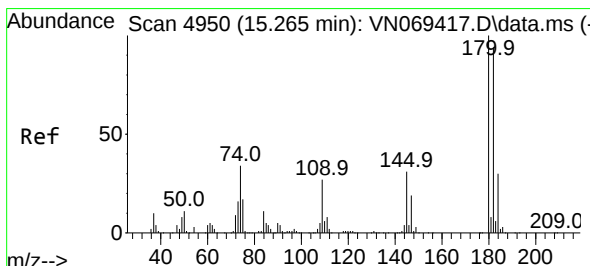
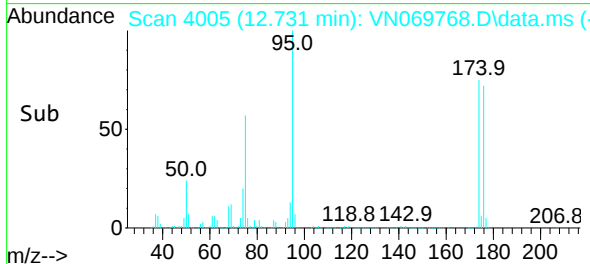
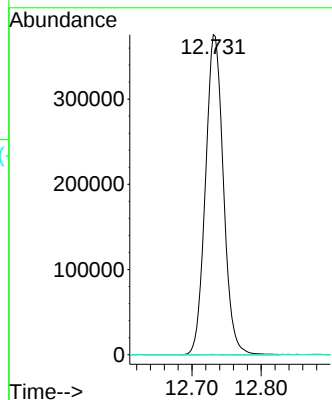
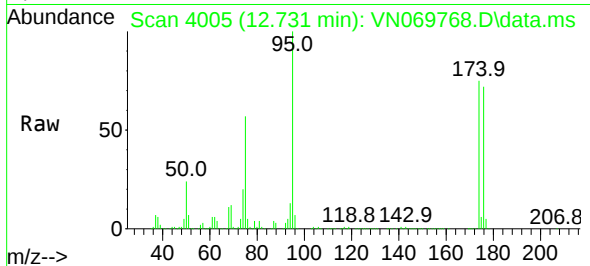




#81
trans-1,4-Dichloro-2-butene
Concen: 75.338 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

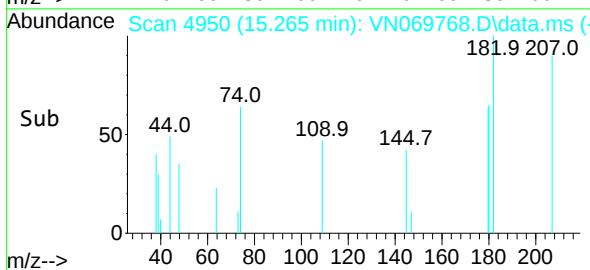
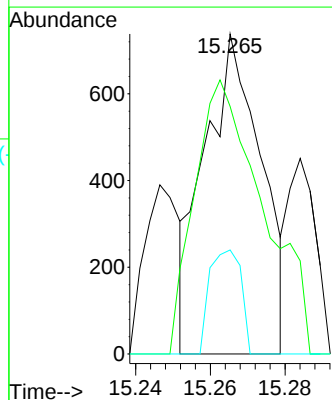
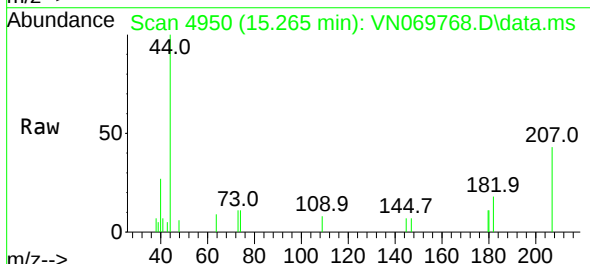
Instrument :
MSVOA_N
ClientSampleId :

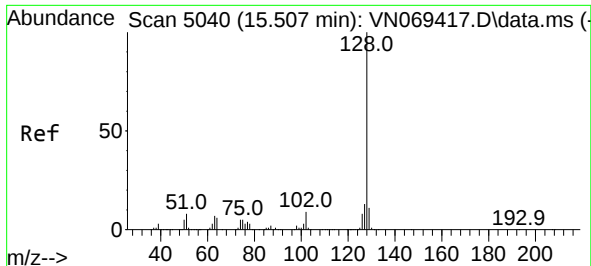
Tgt Ion: 75 Resp: 674294
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.923 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion:180 Resp: 779
Ion Ratio Lower Upper
180 100
182 103.3 48.3 144.9
145 18.0 14.5 43.5

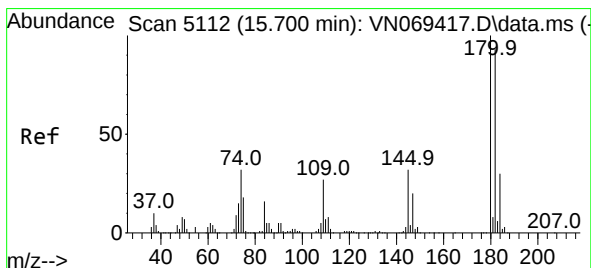
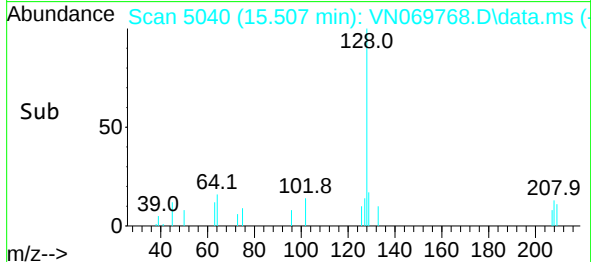
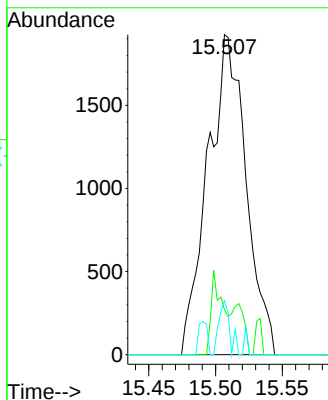
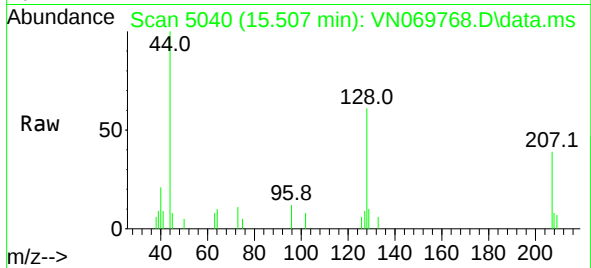




#95
Naphthalene
Concen: 4.058 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 3828
Ion Ratio Lower Upper
128 100
127 7.9 10.5 15.7#
129 4.8 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.502 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN069768.D
Acq: 4 Dec 2021 16:22

Tgt Ion:180 Resp: 1115
Ion Ratio Lower Upper
180 100
182 100.5 47.4 142.2
145 26.9 15.0 45.1

