

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120421\
 Data File : VN069764.D
 Acq On : 4 Dec 2021 14:40
 Operator : JC/MD
 Sample : M4922-10DL 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 04 16:11:53 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)

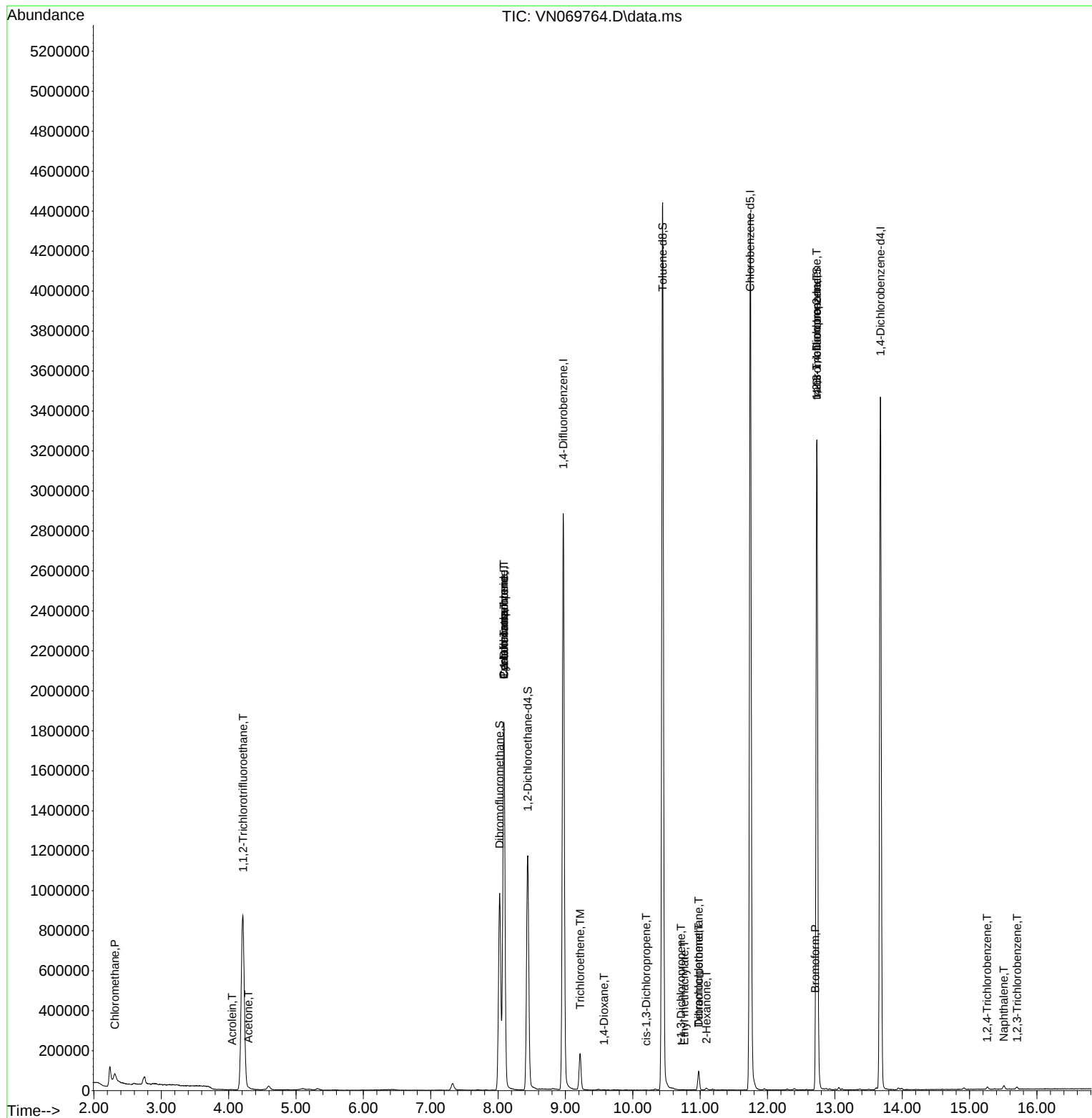
Internal Standards						
1) Pentafluorobenzene	8.088	168	1356839	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2390754	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2460283	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	929432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1026534	49.000	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.000%		
35) Dibromofluoromethane	8.024	113	710288	47.431	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.860%		
50) Toluene-d8	10.443	98	3056882	50.838	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.680%		
62) 4-Bromofluorobenzene	12.734	95	1134006	52.057	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	104.120%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.309	50	4001	0.202	ug/l #	87
9) 1,1,2-Trichlorotrifluo...	4.213	101	585844	43.680	ug/l	96
13) Acrolein	4.052	56	913	0.271	ug/l #	62
16) Acetone	4.293	43	9053	0.718	ug/l	99
31) Cyclohexane	8.088	56	36254	1.244	ug/l #	27
36) 1,1-Dichloropropene	8.086	75	117589	5.167	ug/l #	49
38) Carbon Tetrachloride	8.086	117	141725	6.350	ug/l #	17
44) Trichloroethene	9.217	130	62920	3.789	ug/l	94
49) 1,4-Dioxane	9.574	88	295	0.703	ug/l #	81
53) t-1,3-Dichloropropene	10.714	75	378	2.807	ug/l #	78
54) cis-1,3-Dichloropropene	10.199	75	165	2.004	ug/l #	71
56) Ethyl methacrylate	10.768	69	713	2.300	ug/l #	10
59) 2-Hexanone	11.095	43	8012	0.326	ug/l	83
60) Dibromochloromethane	10.977	129	19957	3.411	ug/l #	11
64) Tetrachloroethene	10.977	164	21027	1.260	ug/l	93
71) Bromoform	12.707	173	144	2.740	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	637922	23.933	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	637922	76.030	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.263	180	3873	3.117	ug/l	96
95) Naphthalene	15.507	128	16496	4.319	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.705	180	4124	2.700	ug/l	95

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

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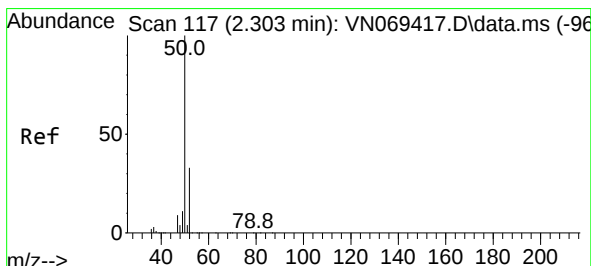
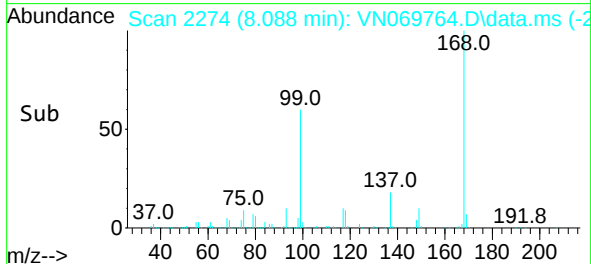
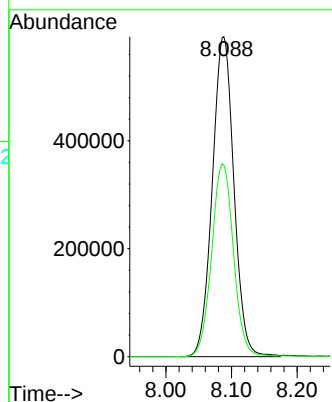
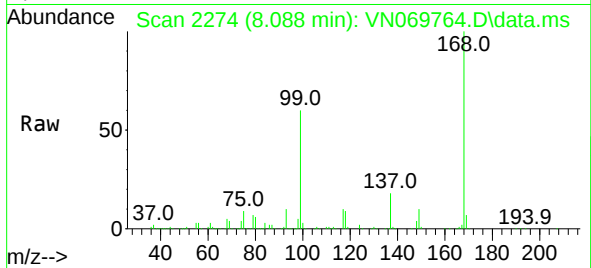




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

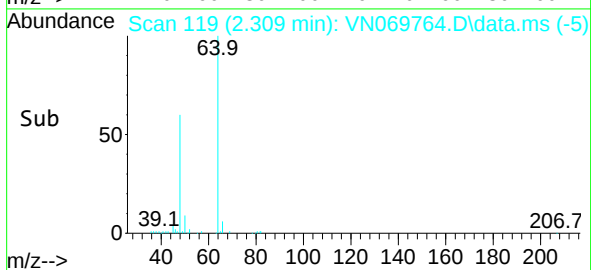
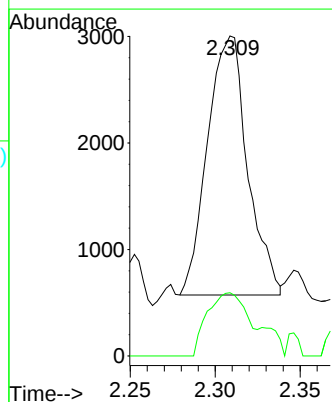
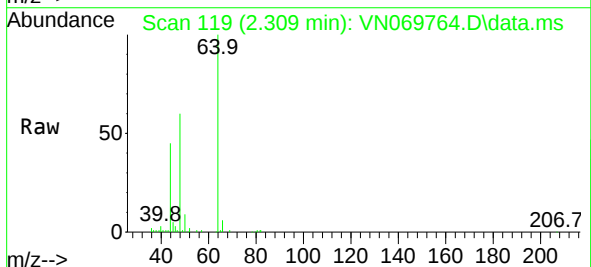
Instrument :
MSVOA_N
ClientSampleId :

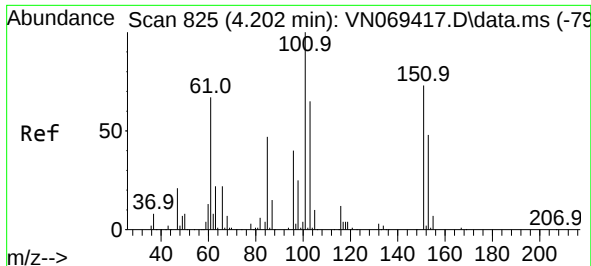
Tgt Ion:168 Resp: 1356839
Ion Ratio Lower Upper
168 100
99 59.9 41.3 61.9



#3
Chloromethane
Concen: 0.202 ug/l
RT: 2.309 min Scan# 119
Delta R.T. 0.006 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion: 50 Resp: 4001
Ion Ratio Lower Upper
50 100
52 24.4 25.4 38.0#

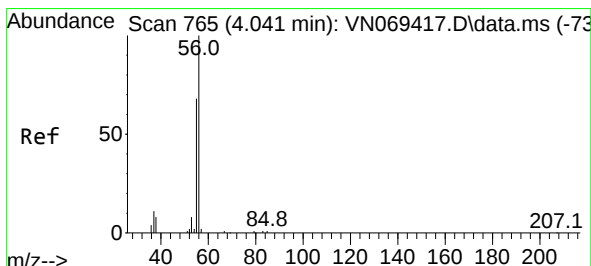
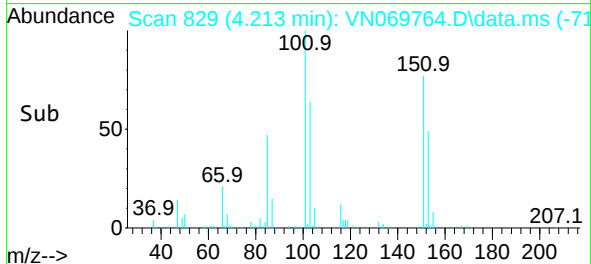
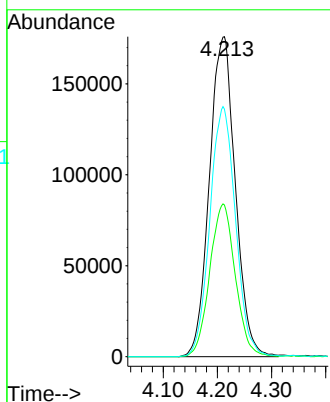
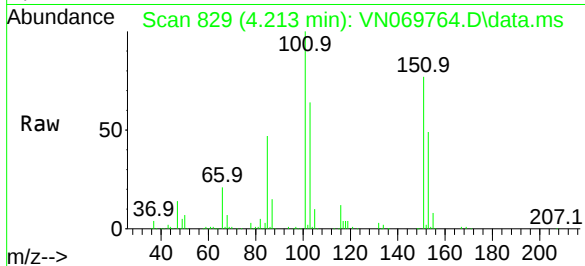




#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.680 ug/l
RT: 4.213 min Scan# 81
Delta R.T. 0.011 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

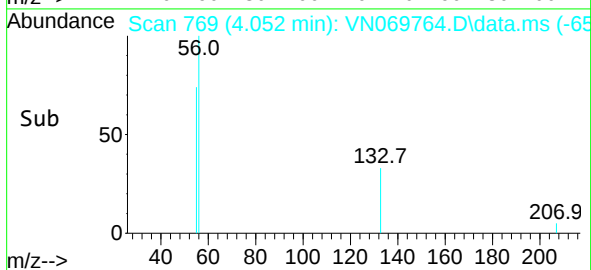
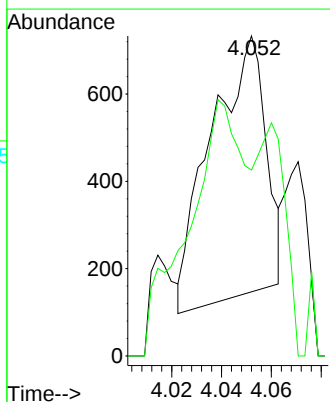
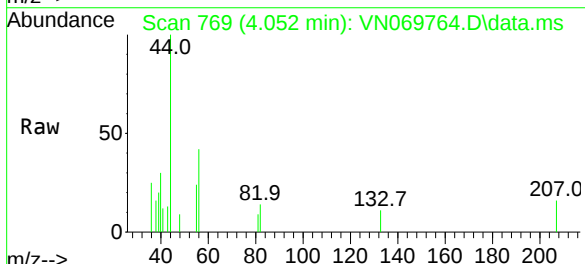
Instrument :
MSVOA_N
ClientSampleId :

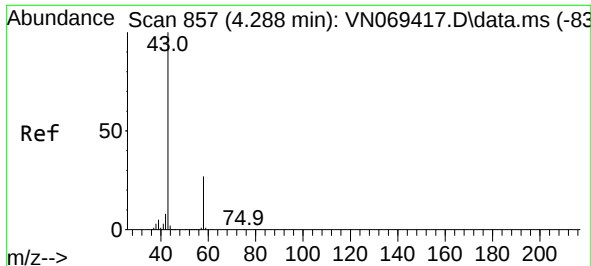
Tgt Ion:101 Resp: 585844
Ion Ratio Lower Upper
101 100
85 47.0 37.2 55.8
151 77.3 65.9 98.9



#13
Acrolein
Concen: 0.271 ug/l
RT: 4.052 min Scan# 769
Delta R.T. 0.014 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion: 56 Resp: 913
Ion Ratio Lower Upper
56 100
55 102.4 56.6 85.0#

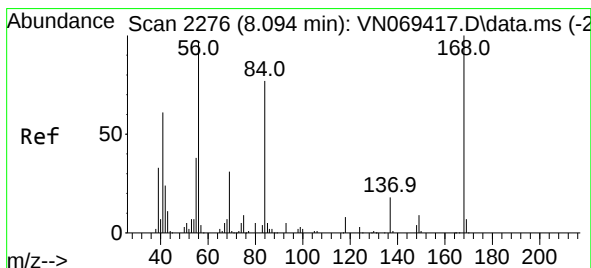
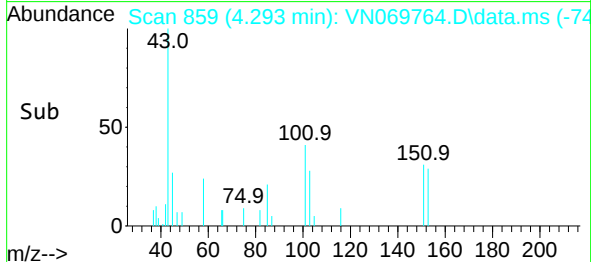
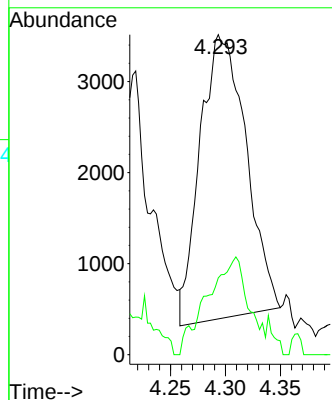
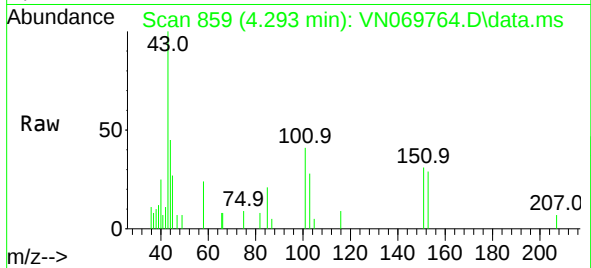




#16
Acetone
Concen: 0.718 ug/l
RT: 4.293 min Scan# 81
Delta R.T. 0.003 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

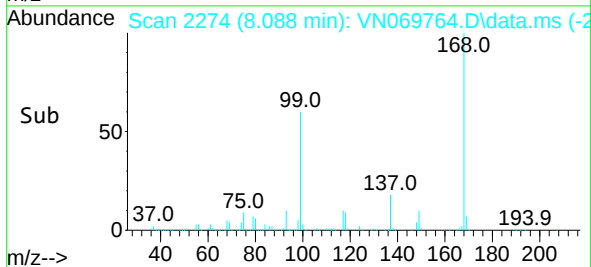
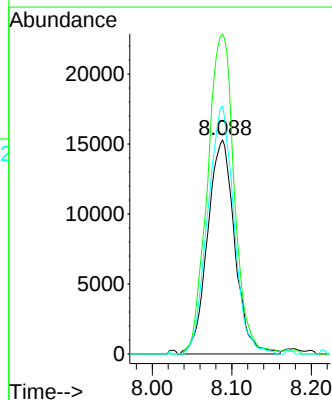
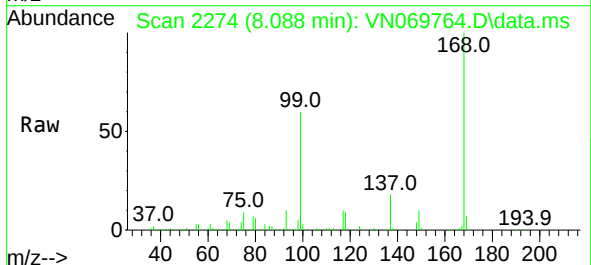
Instrument :
MSVOA_N
ClientSampleId :

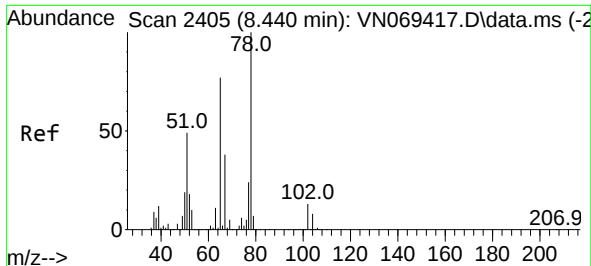
Tgt Ion: 43 Resp: 9053
Ion Ratio Lower Upper
43 100
58 28.2 23.1 34.7



#31
Cyclohexane
Concen: 1.244 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.005 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

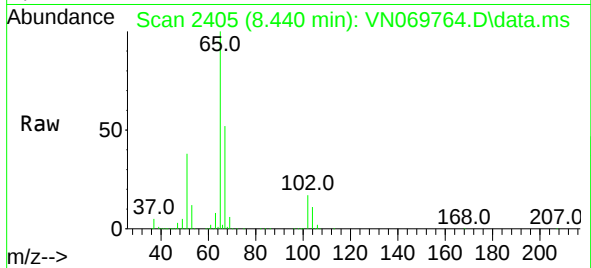
Tgt Ion: 56 Resp: 36254
Ion Ratio Lower Upper
56 100
69 149.5 27.1 40.7#
84 115.7 73.4 110.0#





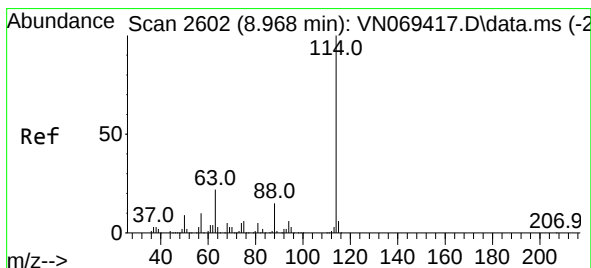
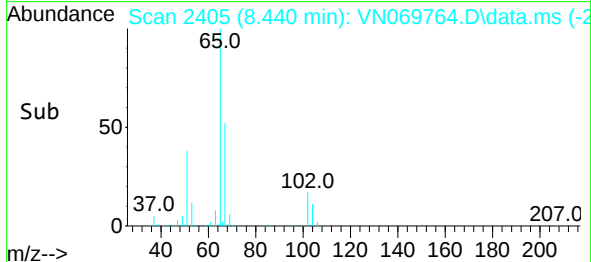
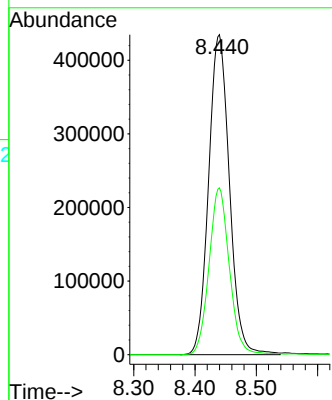
#33
 1,2-Dichloroethane-d4
 Concen: 49.000 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.003 min
 Lab File: VN069764.D
 Acq: 4 Dec 2021 14:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 65 Resp: 1026534

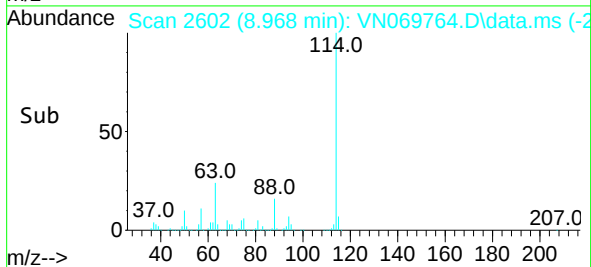
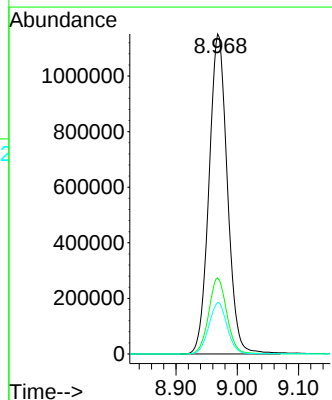
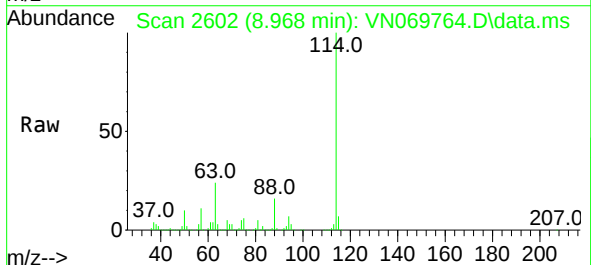
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	103.0

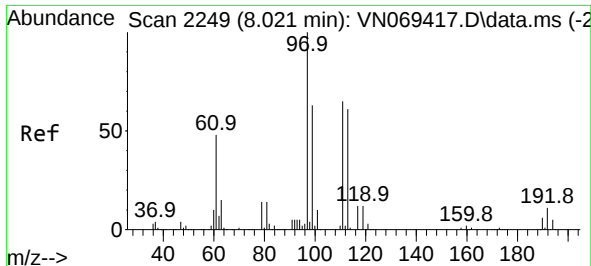


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. 0.000 min
 Lab File: VN069764.D
 Acq: 4 Dec 2021 14:40

Tgt Ion: 114 Resp: 2390754

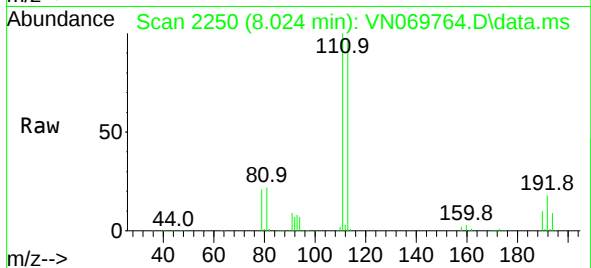
Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	37.8
88	16.0	0.0	27.4



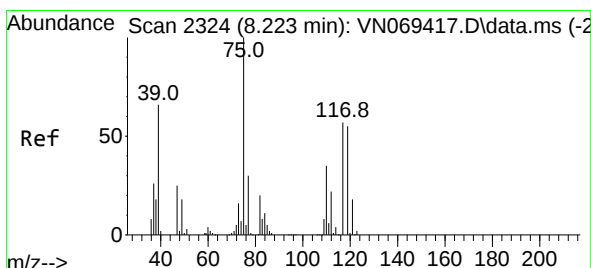
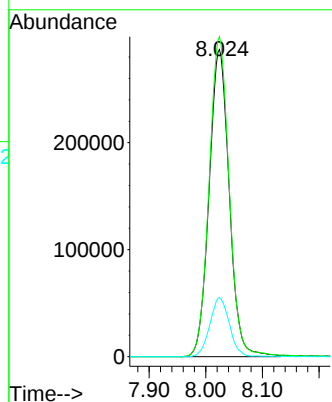
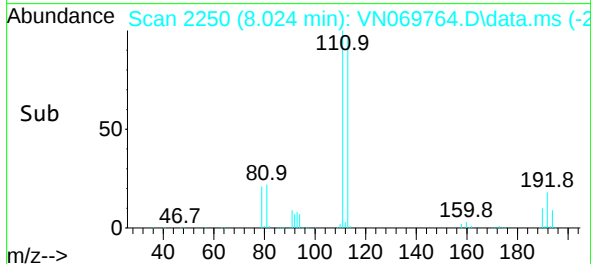


#35
Dibromofluoromethane
Concen: 47.431 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Instrument :
MSVOA_N
ClientSampleId :

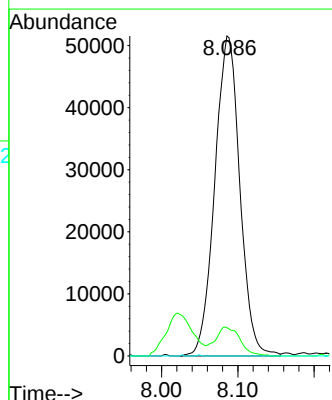
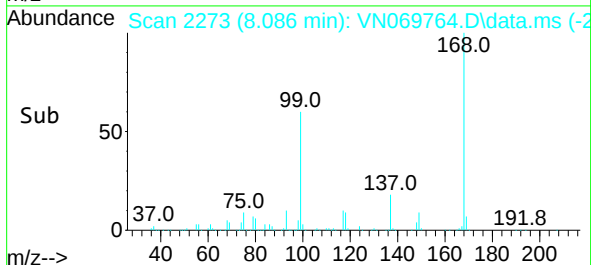
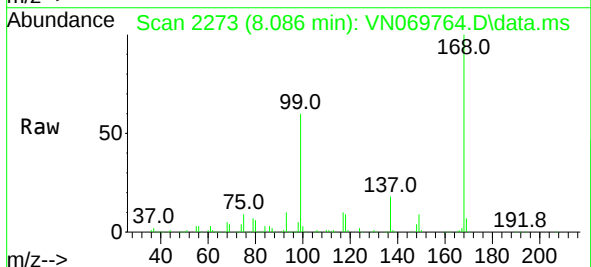


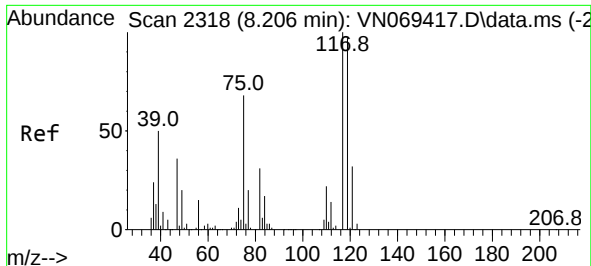
Tgt Ion:113 Resp: 710288
Ion Ratio Lower Upper
113 100
111 103.9 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.167 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

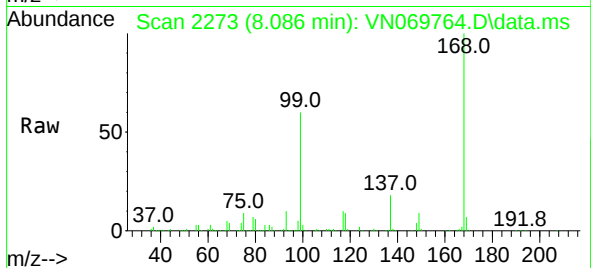
Tgt Ion: 75 Resp: 117589
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 24.4 36.6#



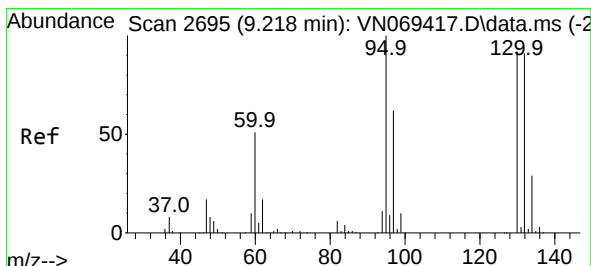
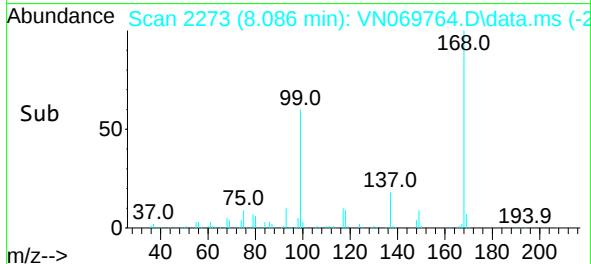
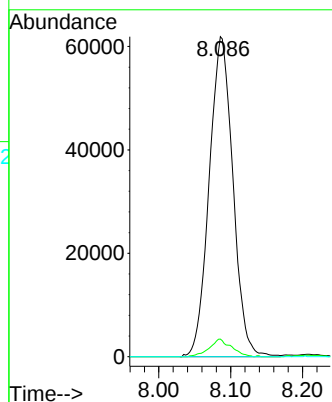


#38
Carbon Tetrachloride
Concen: 6.350 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.121 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Instrument :
MSVOA_N
ClientSampleId :

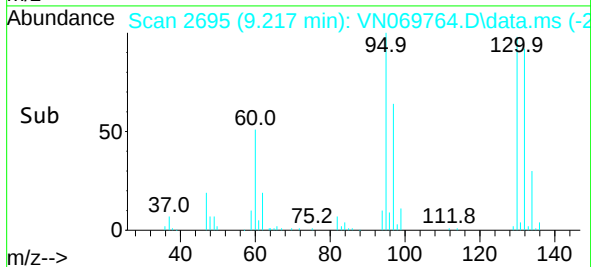
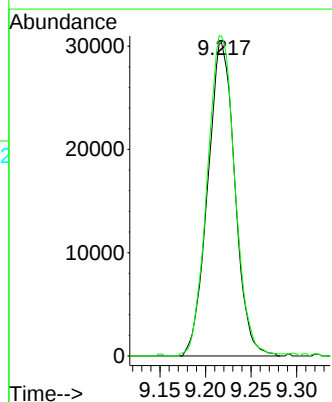
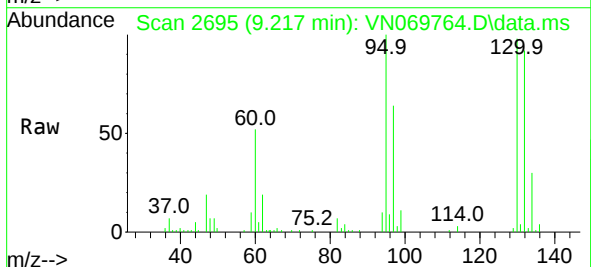


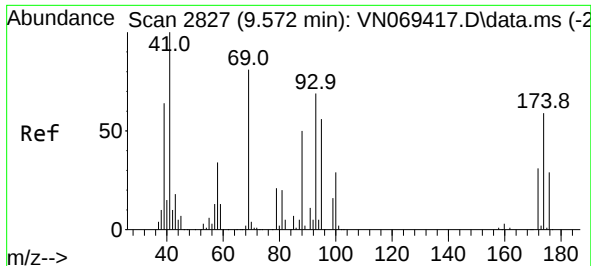
Tgt Ion:117 Resp: 141725
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.2 36.2#



#44
Trichloroethene
Concen: 3.789 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. 0.000 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion:130 Resp: 62920
Ion Ratio Lower Upper
130 100
95 101.4 0.0 191.2





#49

1,4-Dioxane

Concen: 0.703 ug/l

RT: 9.574 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN069764.D

Acq: 4 Dec 2021 14:40

Instrument :

MSVOA_N

ClientSampleId :

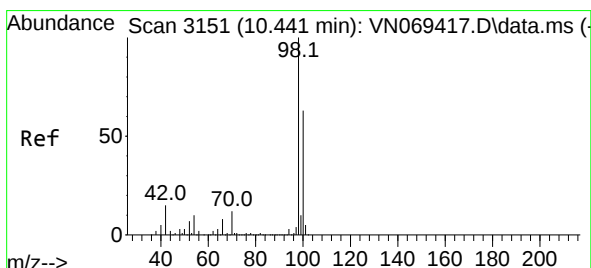
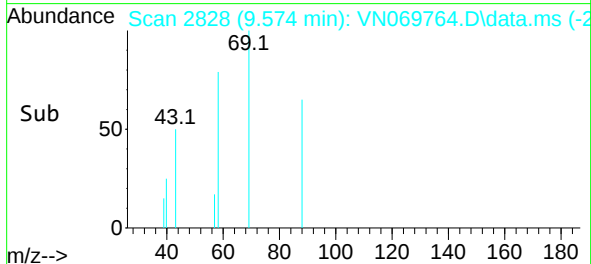
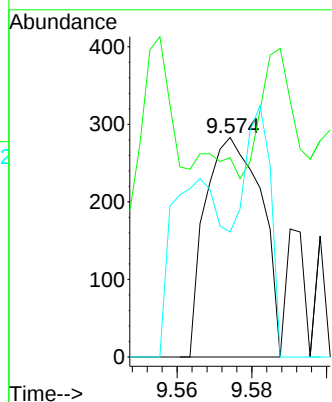
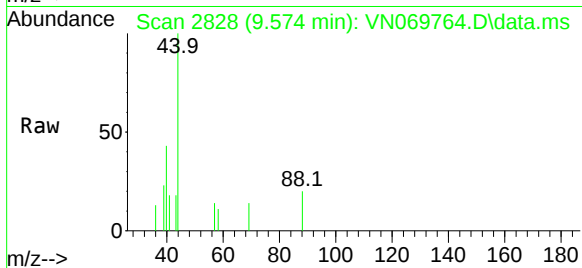
Tgt Ion: 88 Resp: 295

Ion Ratio Lower Upper

88 100

43 42.4 23.4 35.2#

58 76.3 50.6 75.8#



#50

Toluene-d8

Concen: 50.838 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069764.D

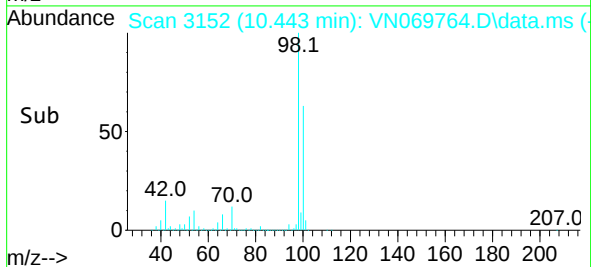
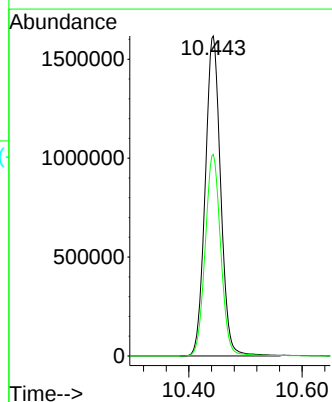
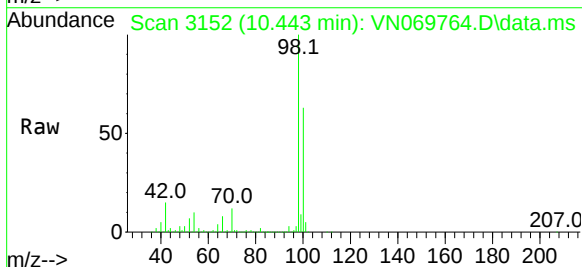
Acq: 4 Dec 2021 14:40

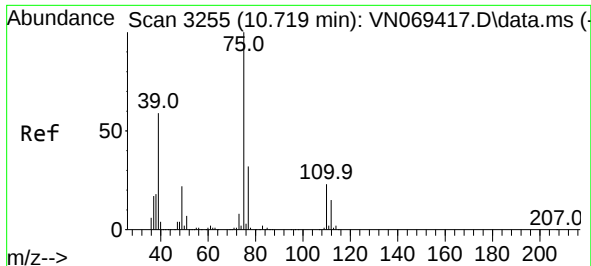
Tgt Ion: 98 Resp: 3056882

Ion Ratio Lower Upper

98 100

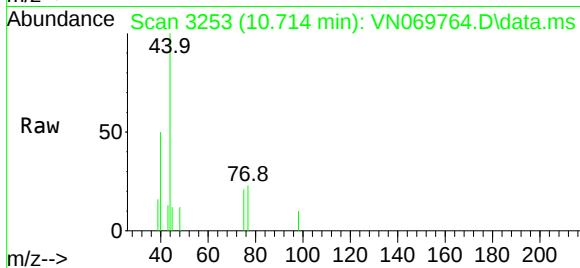
100 63.4 50.4 75.6



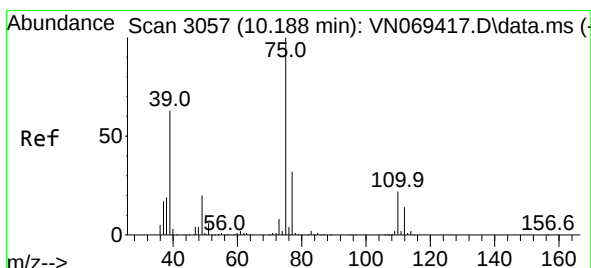
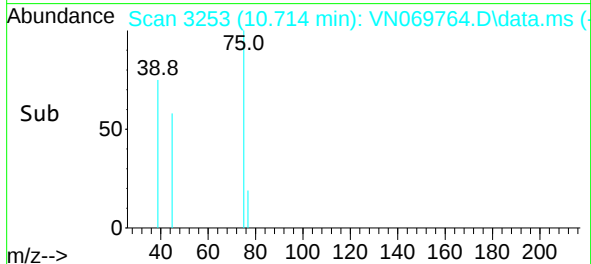
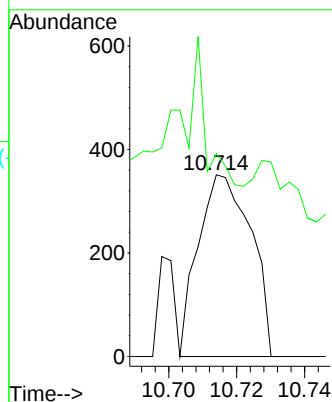


#53
t-1,3-Dichloropropene
Concen: 2.807 ug/l
RT: 10.714 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Instrument :
MSVOA_N
ClientSampleId :

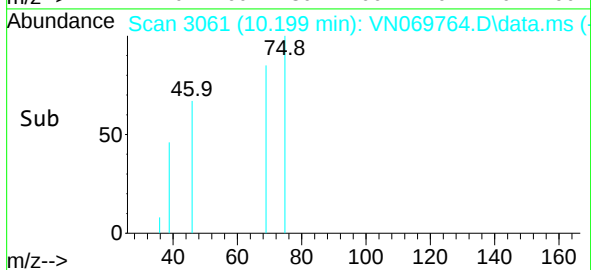
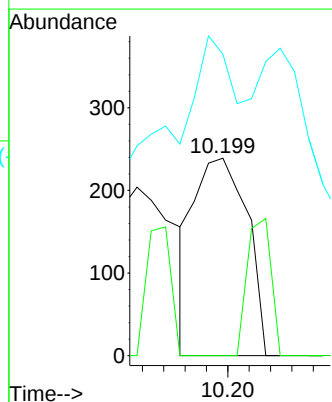
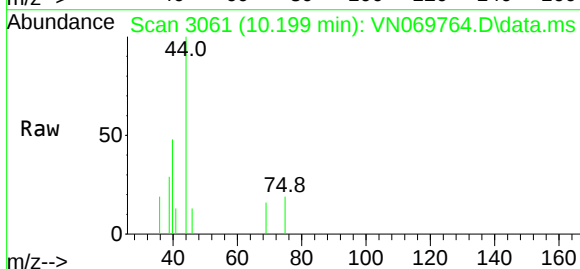


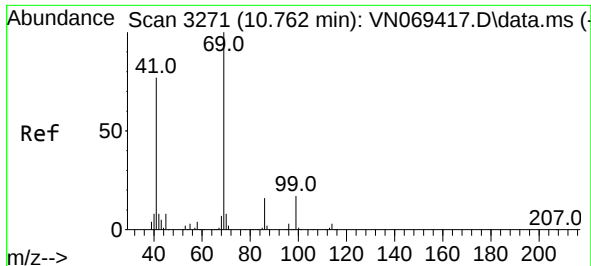
Tgt Ion: 75 Resp: 378
Ion Ratio Lower Upper
75 100
77 19.7 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.004 ug/l
RT: 10.199 min Scan# 3061
Delta R.T. 0.008 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

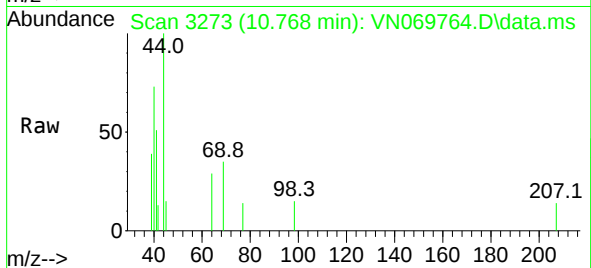
Tgt Ion: 75 Resp: 165
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 45.6 42.5 63.7



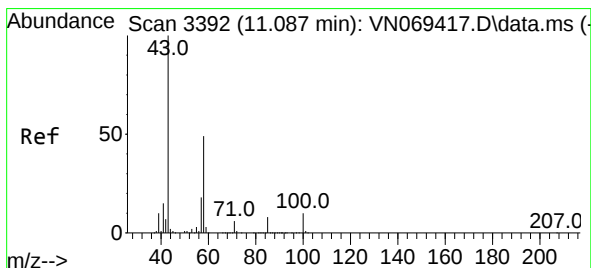
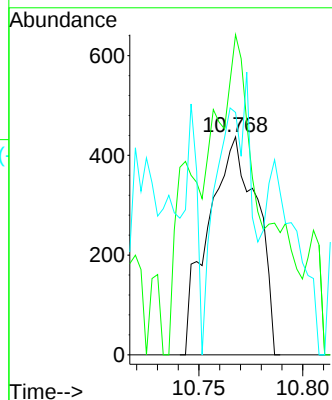
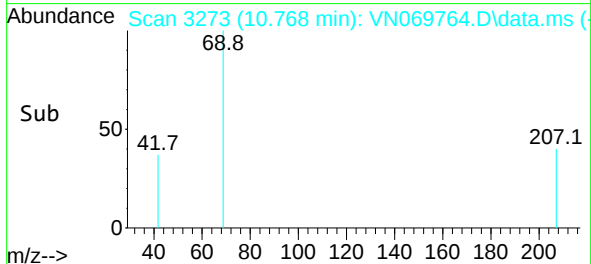


#56
Ethyl methacrylate
Concen: 2.300 ug/l
RT: 10.768 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Instrument :
MSVOA_N
ClientSampleId :

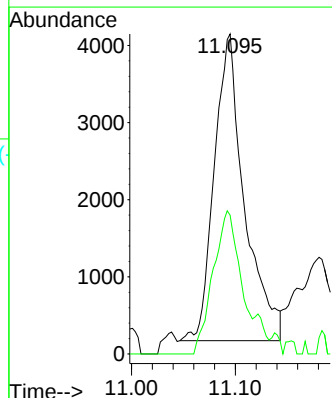
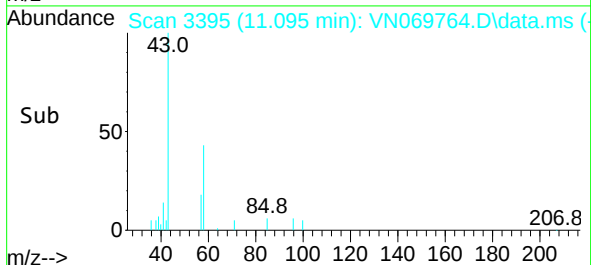
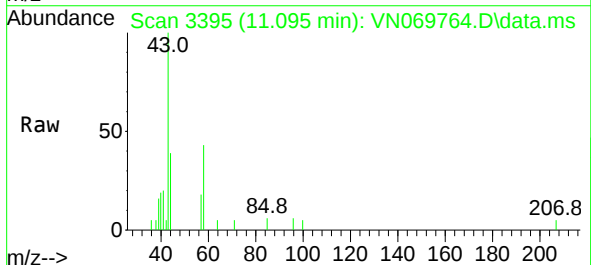


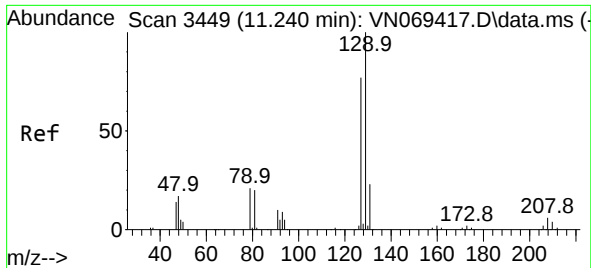
Tgt Ion: 69 Resp: 713
Ion Ratio Lower Upper
69 100
41 147.3 51.4 77.0#
39 86.0 34.6 52.0#



#59
2-Hexanone
Concen: 0.326 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion: 43 Resp: 8012
Ion Ratio Lower Upper
43 100
58 41.9 26.9 80.7

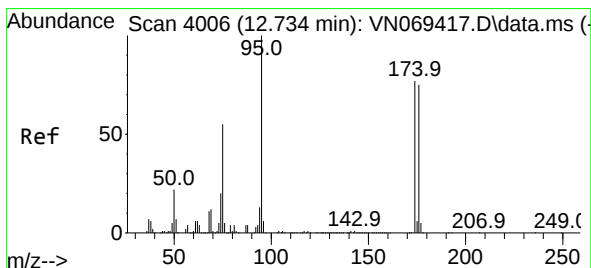
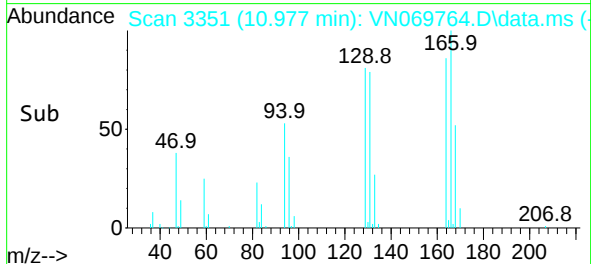
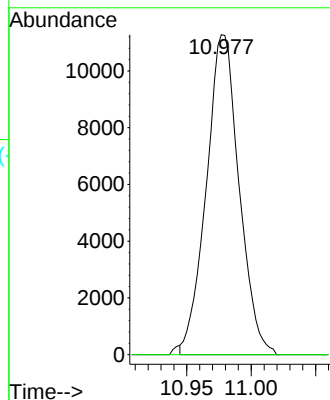
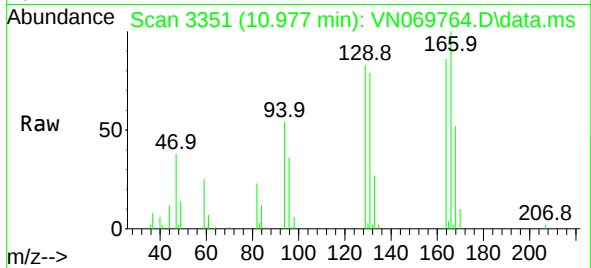




#60
Dibromochloromethane
Concen: 3.411 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

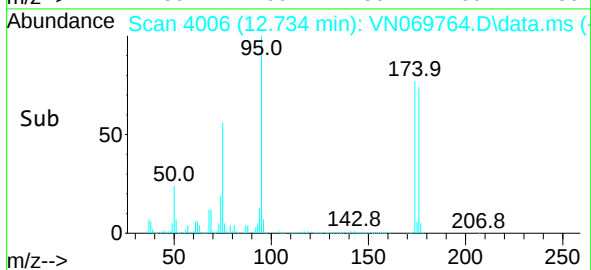
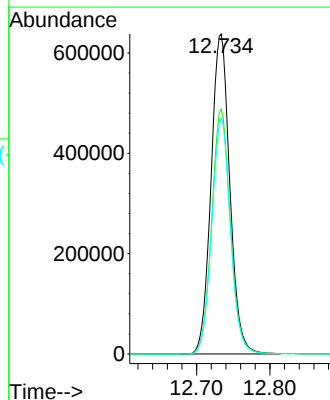
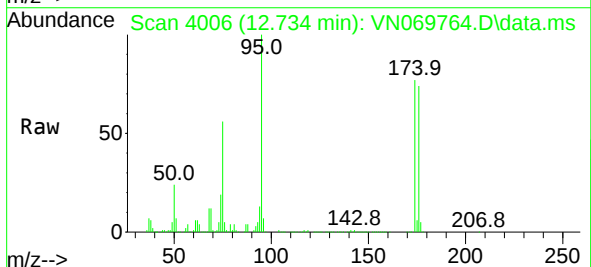
Instrument :
MSVOA_N
ClientSampleId :

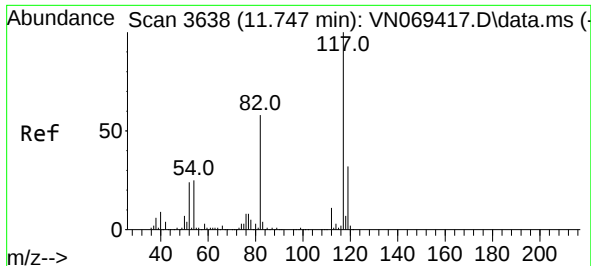
Tgt Ion:129 Resp: 19957
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 52.057 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

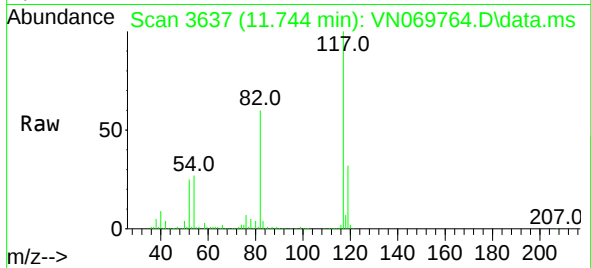
Tgt Ion: 95 Resp: 1134006
Ion Ratio Lower Upper
95 100
174 76.5 0.0 187.2
176 73.4 0.0 181.4





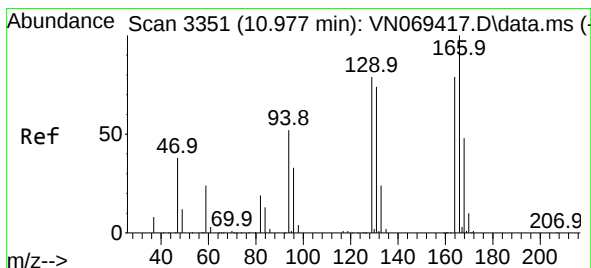
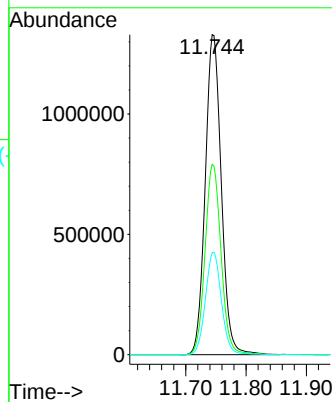
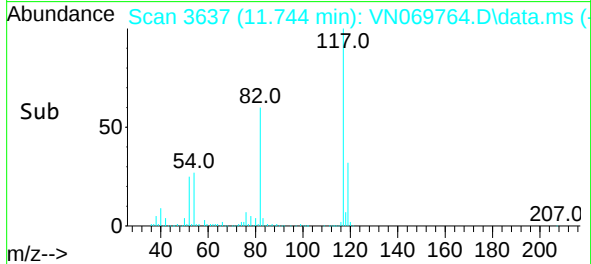
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:117 Resp: 2460283

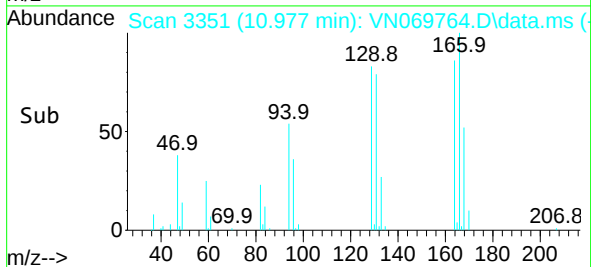
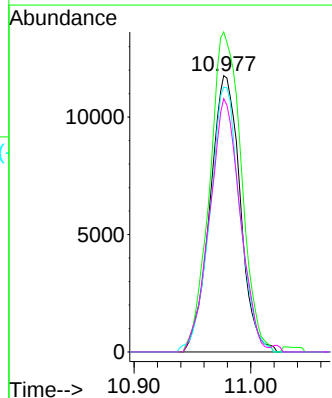
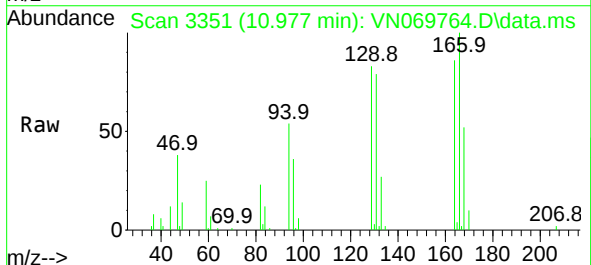
Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	31.9	25.4	38.2

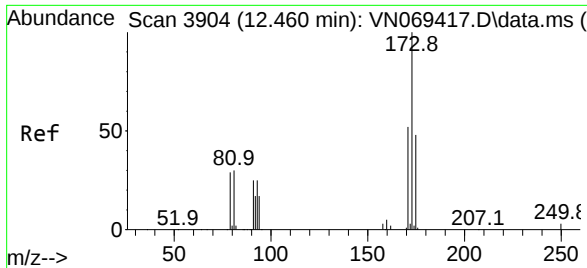


#64
Tetrachloroethene
Concen: 1.260 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion:164 Resp: 21027

Ion	Ratio	Lower	Upper
164	100		
166	115.8	101.9	152.9
129	95.9	72.0	108.0
131	91.7	70.9	106.3

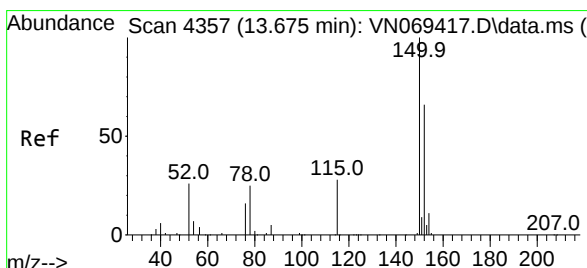
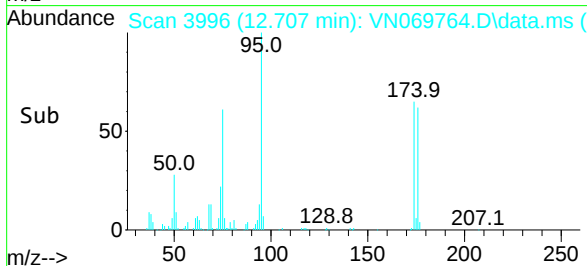
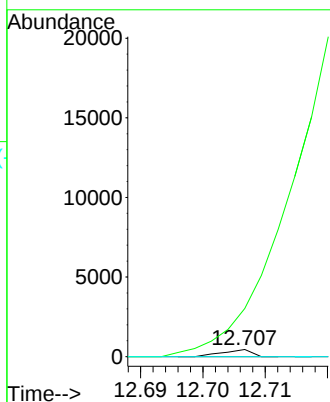
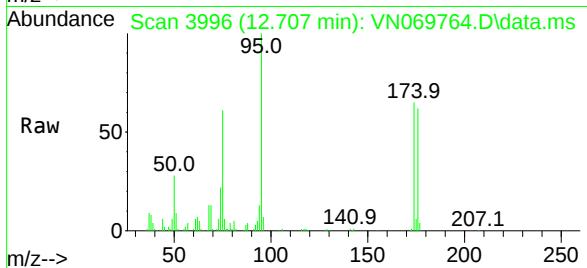




#71
Bromoform
Concen: 2.740 ug/l
RT: 12.707 min Scan# 3904
Delta R.T. 0.247 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

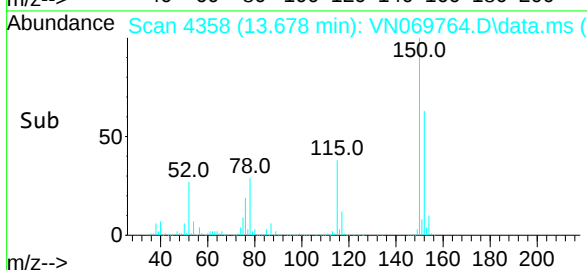
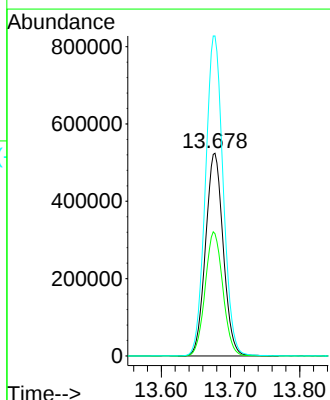
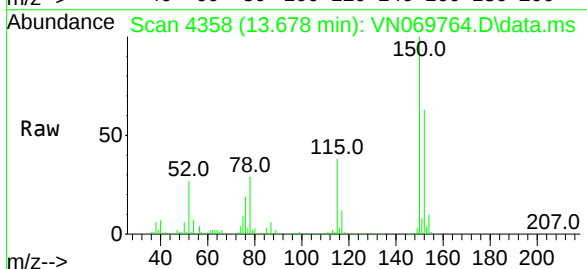
Instrument :
MSVOA_N
ClientSampleId :

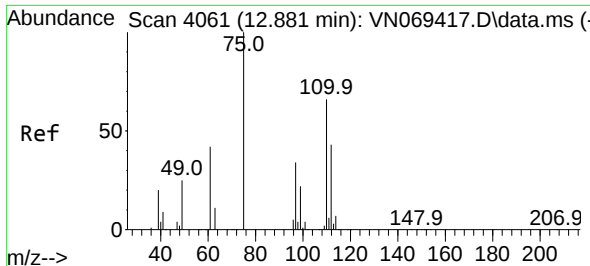
Tgt Ion:173 Resp: 144
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

Tgt Ion:152 Resp: 929432
Ion Ratio Lower Upper
152 100
115 61.3 27.5 82.5
150 157.9 0.0 344.4

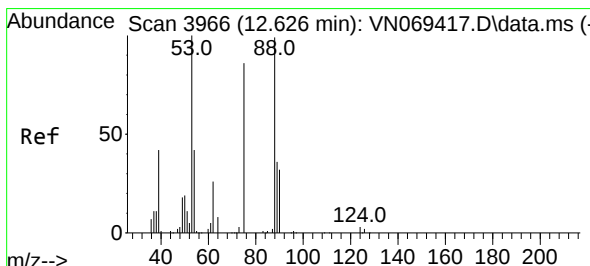
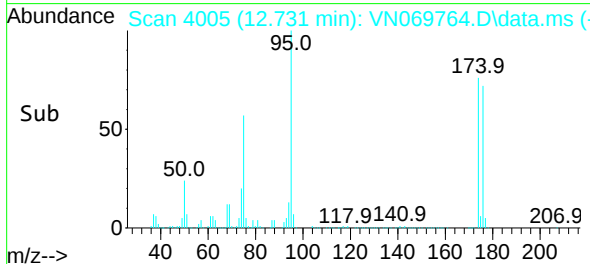
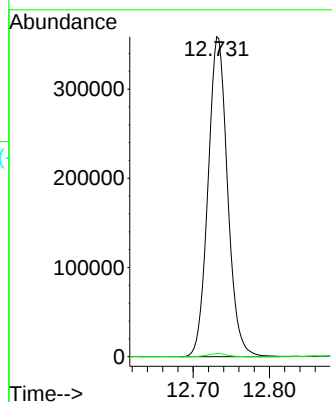
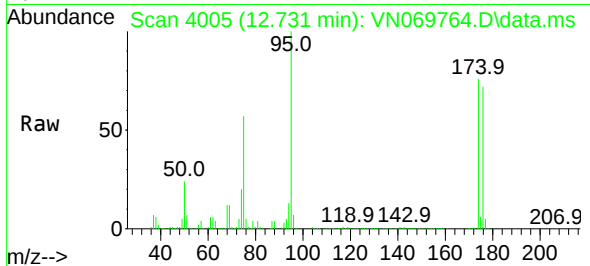




#76
1,2,3-Trichloropropane
Concen: 23.933 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

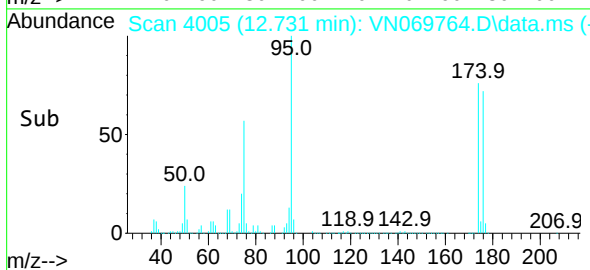
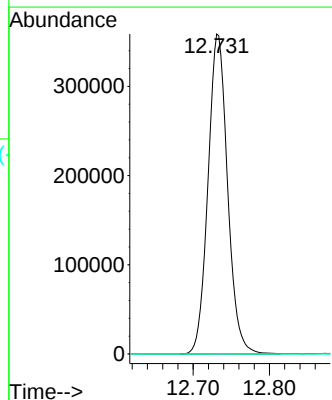
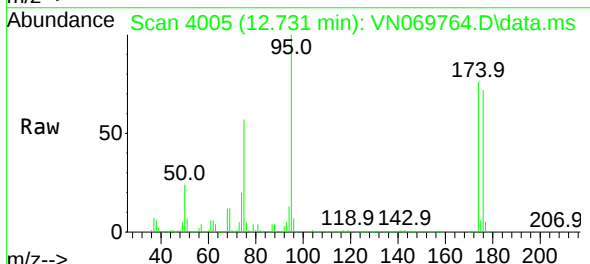
Instrument :
MSVOA_N
ClientSampleId :

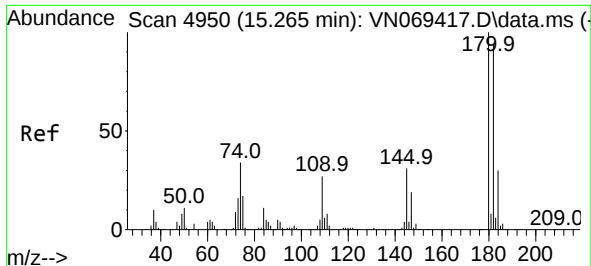
Tgt Ion: 75 Resp: 637922
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.030 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069764.D
Acq: 4 Dec 2021 14:40

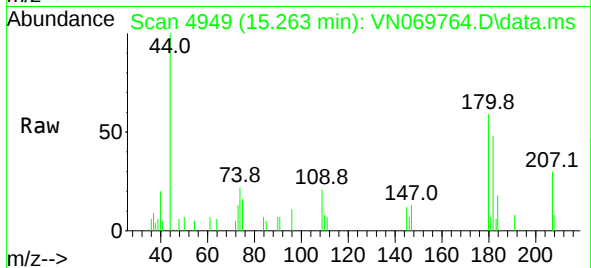
Tgt Ion: 75 Resp: 637922
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



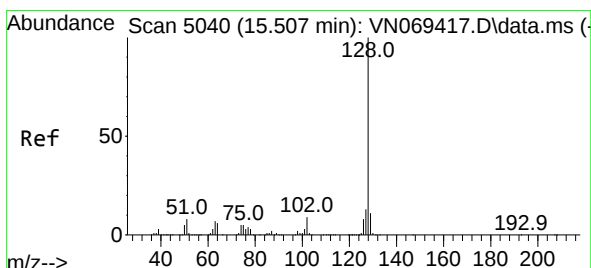
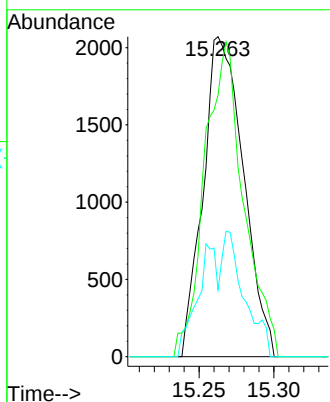
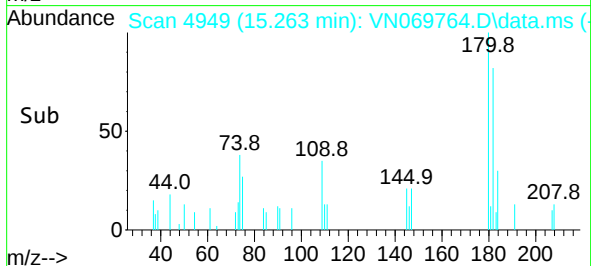


#93
 1,2,4-Trichlorobenzene
 Concen: 3.117 ug/l
 RT: 15.263 min Scan# 4950
 Delta R.T. -0.002 min
 Lab File: VN069764.D
 Acq: 4 Dec 2021 14:40

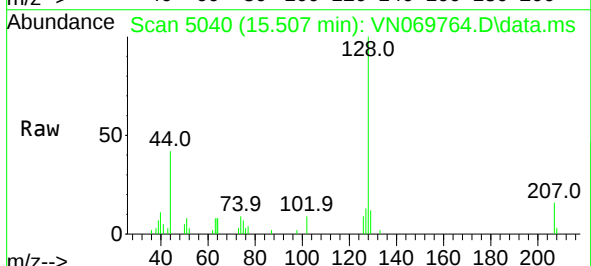
Instrument :
 MSVOA_N
 ClientSampleId :



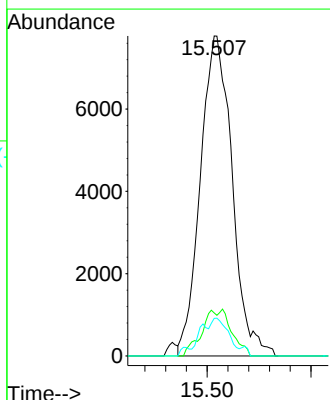
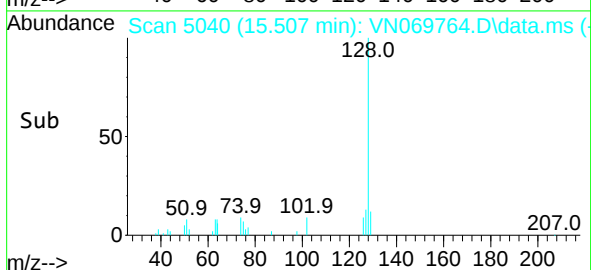
Tgt Ion:180 Resp: 3873
 Ion Ratio Lower Upper
 180 100
 182 95.2 48.3 144.9
 145 22.1 14.5 43.5

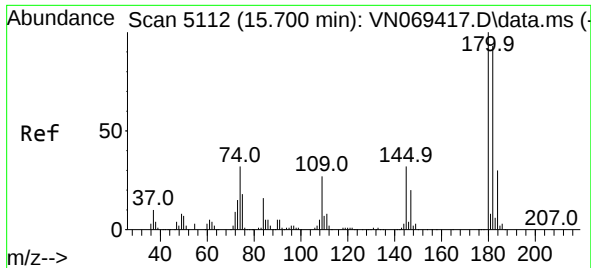


#95
 Naphthalene
 Concen: 4.319 ug/l
 RT: 15.507 min Scan# 5040
 Delta R.T. -0.000 min
 Lab File: VN069764.D
 Acq: 4 Dec 2021 14:40



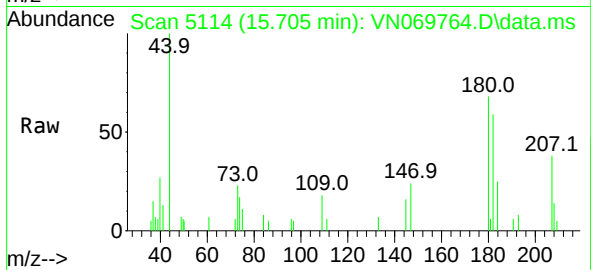
Tgt Ion:128 Resp: 16496
 Ion Ratio Lower Upper
 128 100
 127 7.3 10.5 15.7#
 129 5.1 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.700 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN069764.D
 Acq: 4 Dec 2021 14:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	4124
Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.4	142.2
145	22.1	15.0	45.1

