

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070193.D
 Acq On : 18 Dec 2021 4:32
 Operator : JC/MD
 Sample : M5132-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 19 07:23:16 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)

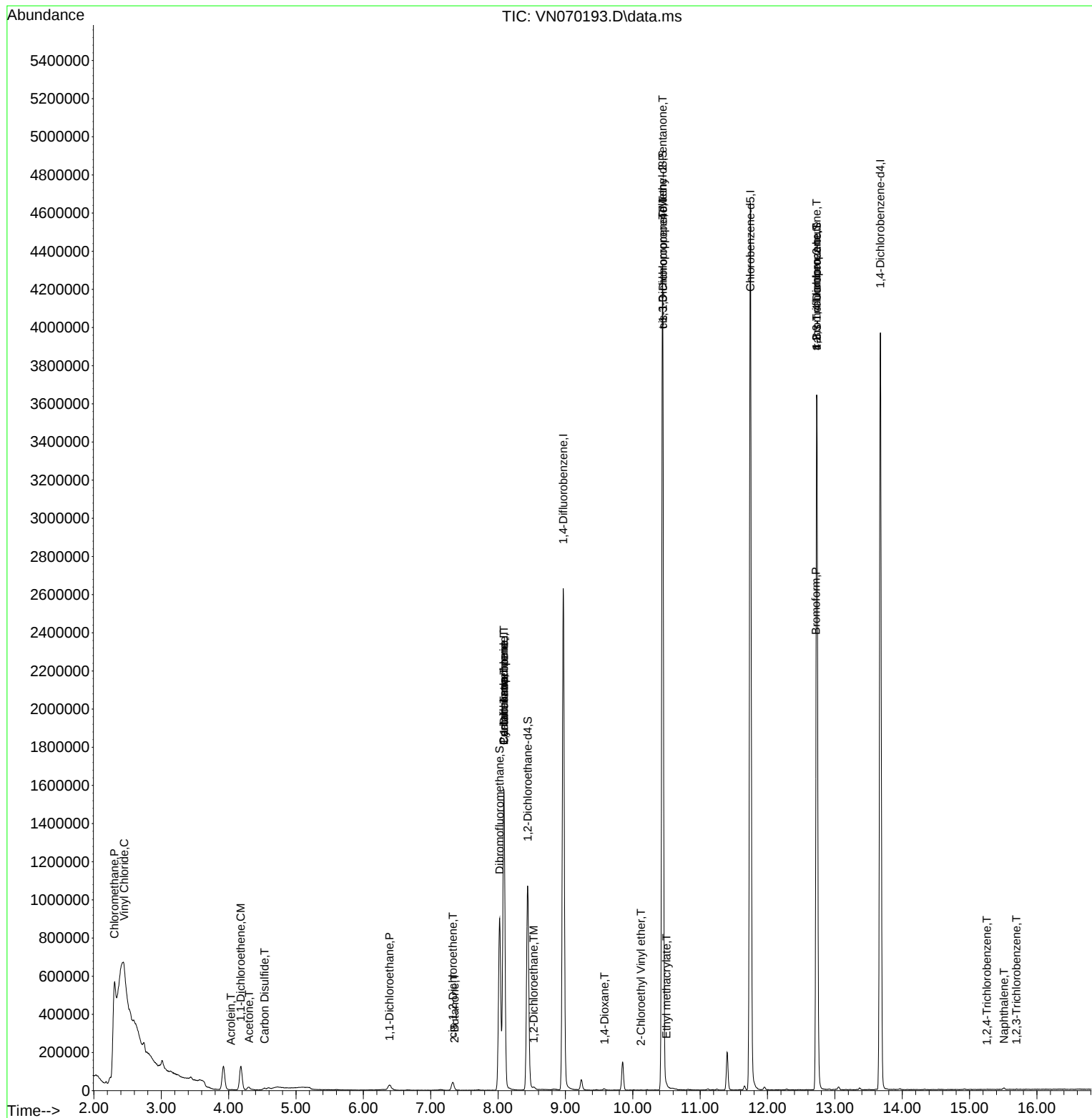
Internal Standards						
1) Pentafluorobenzene	8.086	168	1175413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2219250	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2615309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1073905	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	933946	51.462	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 102.920%	
35) Dibromofluoromethane	8.024	113	655692	47.169	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 94.340%	
50) Toluene-d8	10.443	98	2938531	52.646	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 105.300%	
62) 4-Bromofluorobenzene	12.731	95	1295776	64.080	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 128.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	35450	2.064	ug/l #	53
4) Vinyl Chloride	2.448	62	28760	1.821	ug/l #	1
12) 1,1-Dichloroethene	4.181	96	67363	6.017	ug/l	90
13) Acrolein	4.036	56	703	0.241	ug/l	84
16) Acetone	4.301	43	26845	2.459	ug/l #	88
17) Carbon Disulfide	4.532	76	18565	0.642	ug/l #	93
24) 1,1-Dichloroethane	6.388	63	36229	1.418	ug/l	97
25) 2-Butanone	7.354	43	3495	0.236	ug/l #	88
27) cis-1,2-Dichloroethene	7.329	96	23339	1.588	ug/l	96
31) Cyclohexane	8.086	56	29540	1.170	ug/l #	28
36) 1,1-Dichloropropene	8.086	75	98288	4.652	ug/l #	49
38) Carbon Tetrachloride	8.086	117	119205	5.754	ug/l #	16
42) 1,2-Dichloroethane	8.528	62	6053	0.232	ug/l	88
49) 1,4-Dioxane	9.580	88	5757	14.775	ug/l	88
51) 4-Methyl-2-Pentanone	10.443	43	16193	0.536	ug/l #	1
53) t-1,3-Dichloropropene	10.449	75	776	2.822	ug/l #	1
54) cis-1,3-Dichloropropene	10.449	75	880	2.030	ug/l #	1
56) Ethyl methacrylate	10.500	69	82	2.282	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.121	63	473	18.443	ug/l #	45
71) Bromoform	12.720	173	1324	2.809	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	709983	23.054	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	709983	73.384	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.257	180	254	2.891	ug/l #	68
95) Naphthalene	15.512	128	7756	4.121	ug/l	97
96) 1,2,3-Trichlorobenzene	15.697	180	218	2.448	ug/l #	23

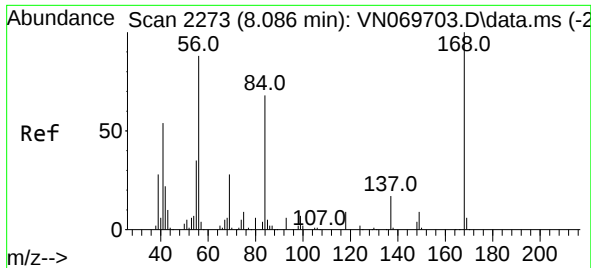
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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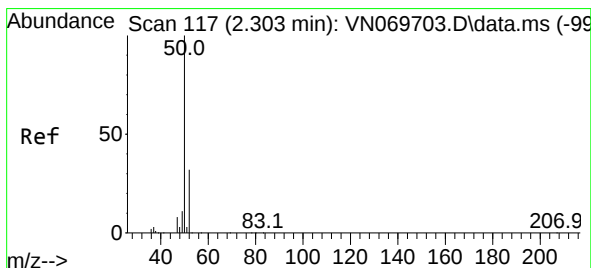
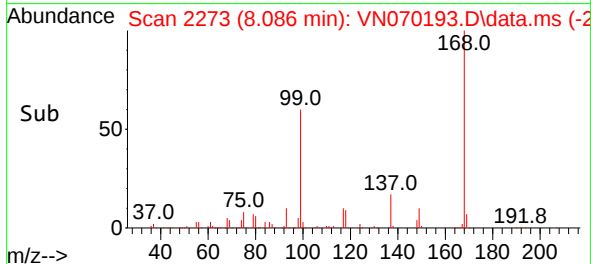
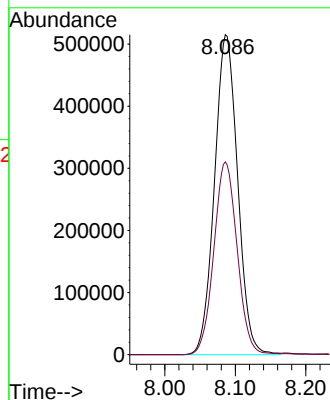
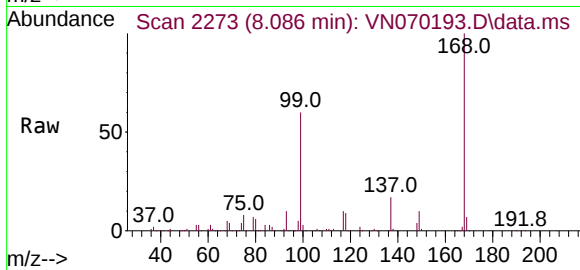




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

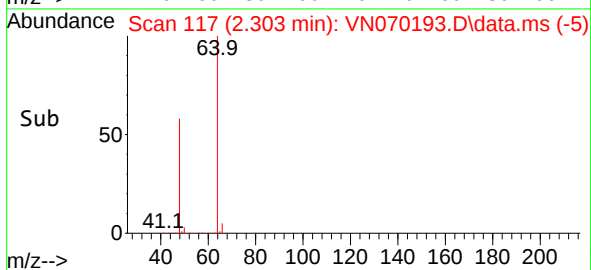
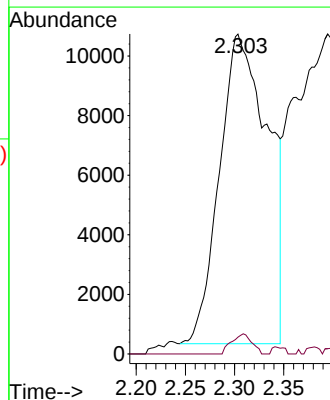
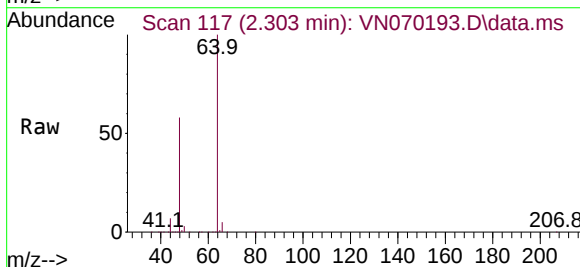
Instrument :
MSVOA_N
ClientSampleId :

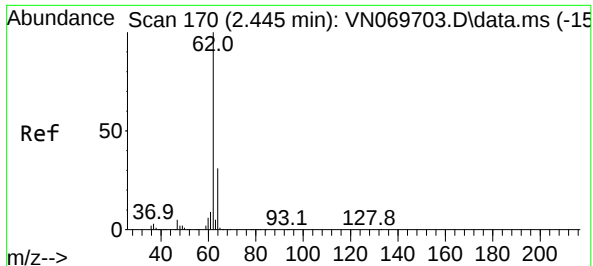
Tgt Ion:168 Resp: 1175413
Ion Ratio Lower Upper
168 100
99 60.3 41.3 61.9



#3
Chloromethane
Concen: 2.064 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion: 50 Resp: 35450
Ion Ratio Lower Upper
50 100
52 5.4 25.4 38.0#

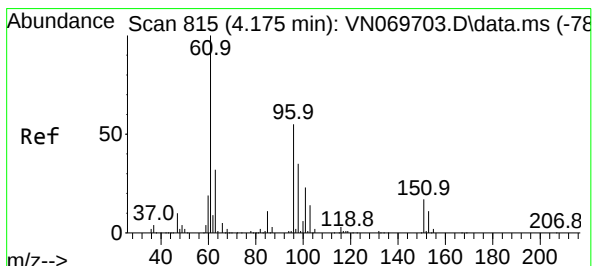
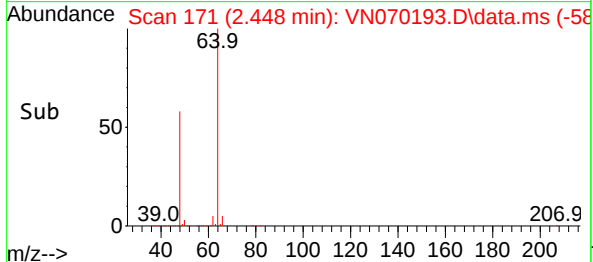
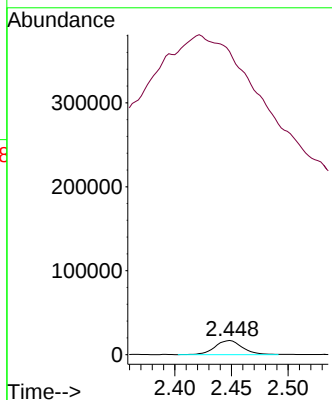
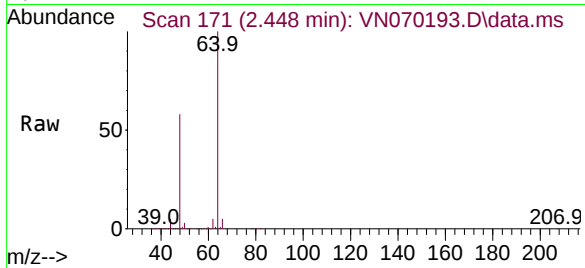




#4
 Vinyl Chloride
 Concen: 1.821 ug/l
 RT: 2.448 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VN070193.D
 Acq: 18 Dec 2021 4:32

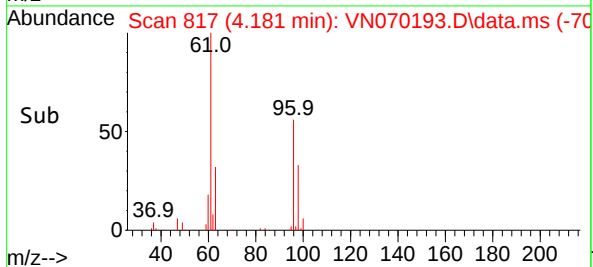
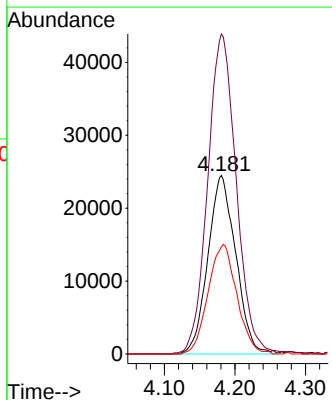
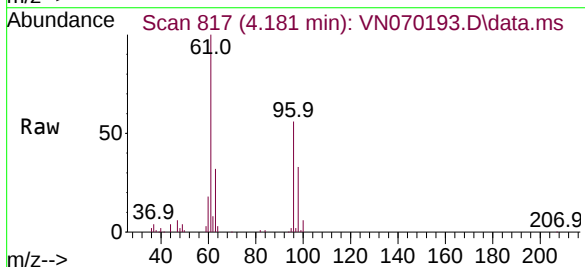
Instrument :
 MSVOA_N
 ClientSampleId :

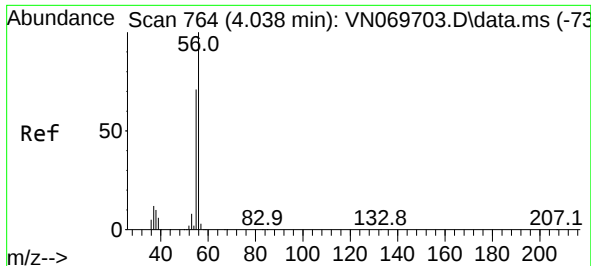
Tgt Ion: 62 Resp: 28760
 Ion Ratio Lower Upper
 62 100
 64 507.4 25.8 38.6#



#12
 1,1-Dichloroethene
 Concen: 6.017 ug/l
 RT: 4.181 min Scan# 817
 Delta R.T. 0.006 min
 Lab File: VN070193.D
 Acq: 18 Dec 2021 4:32

Tgt Ion: 96 Resp: 67363
 Ion Ratio Lower Upper
 96 100
 61 178.6 131.0 196.6
 98 59.9 52.4 78.6

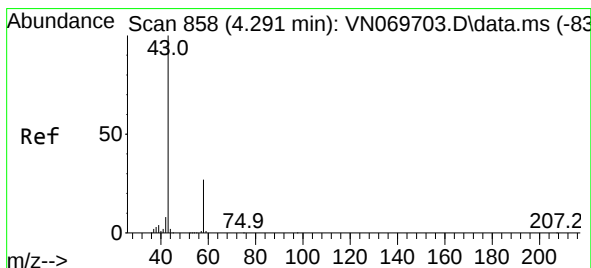
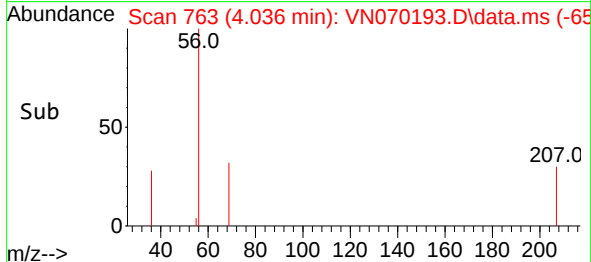
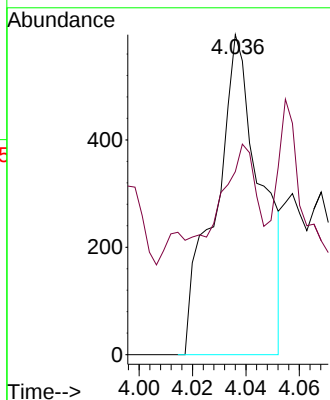
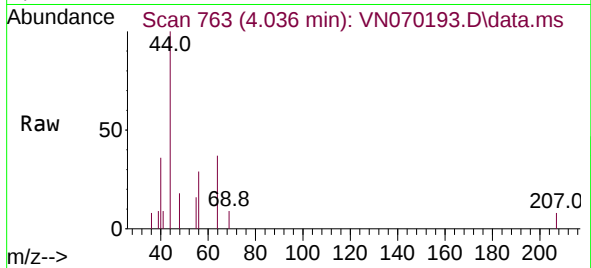




#13
Acrolein
Concen: 0.241 ug/l
RT: 4.036 min Scan# 703
Delta R.T. -0.002 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

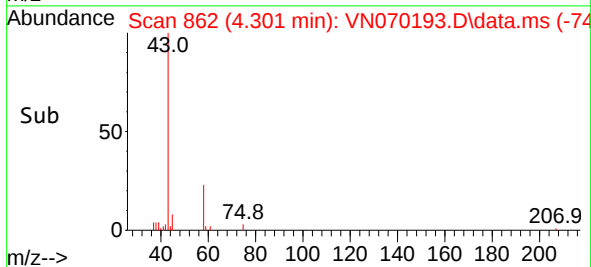
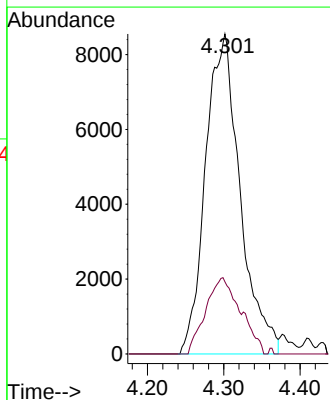
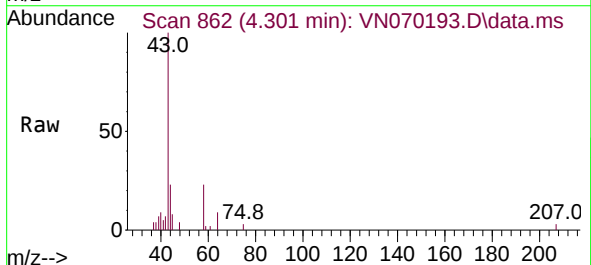
Instrument :
MSVOA_N
ClientSampleId :

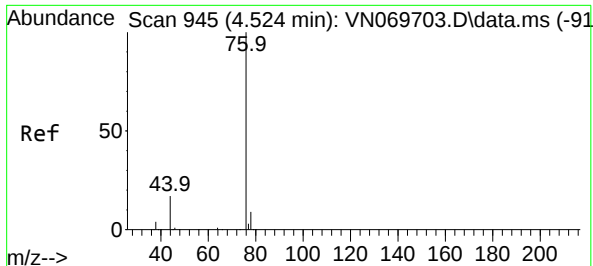
Tgt Ion: 56 Resp: 703
Ion Ratio Lower Upper
56 100
55 57.3 56.6 85.0



#16
Acetone
Concen: 2.459 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.011 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

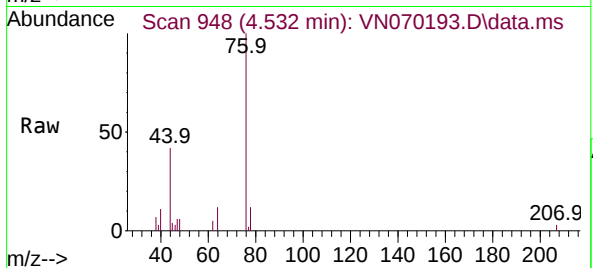
Tgt Ion: 43 Resp: 26845
Ion Ratio Lower Upper
43 100
58 22.6 23.1 34.7#



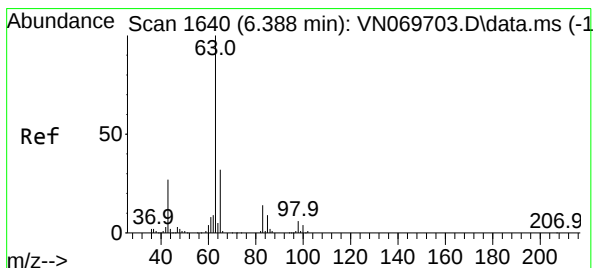
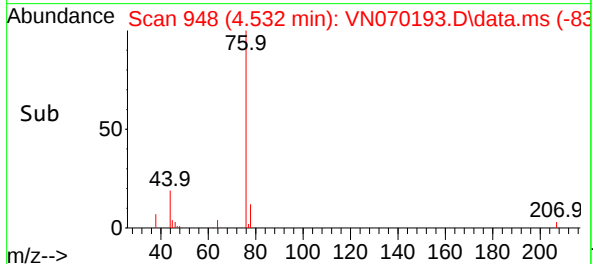
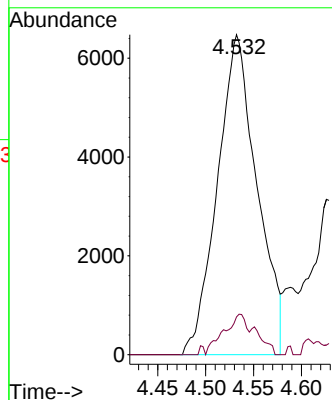


#17
Carbon Disulfide
Concen: 0.642 ug/l
RT: 4.532 min Scan# 945
Delta R.T. 0.008 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Instrument :
MSVOA_N
ClientSampleId :

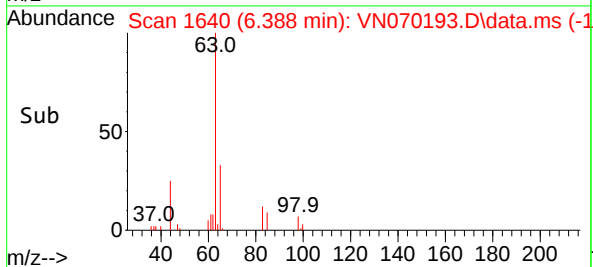
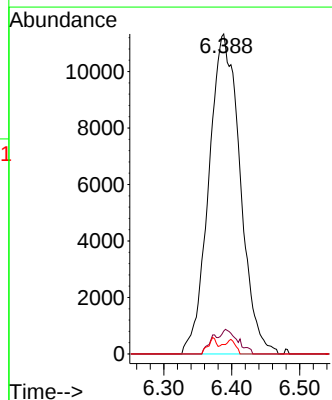
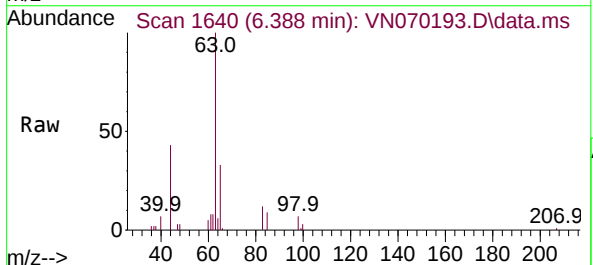


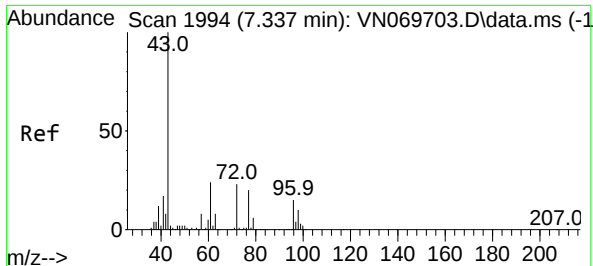
Tgt Ion: 76 Resp: 18565
Ion Ratio Lower Upper
76 100
78 11.8 7.5 11.3#



#24
1,1-Dichloroethane
Concen: 1.418 ug/l
RT: 6.388 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion: 63 Resp: 36229
Ion Ratio Lower Upper
63 100
98 7.2 3.3 9.9
100 2.9 2.1 6.5





#25

2-Butanone

Concen: 0.236 ug/l

RT: 7.354 min Scan# 2000

Delta R.T. 0.016 min

Lab File: VN070193.D

Acq: 18 Dec 2021 4:32

Instrument :

MSVOA_N

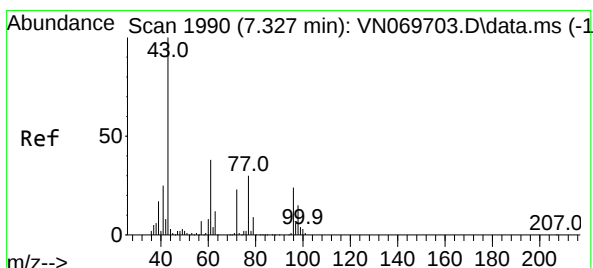
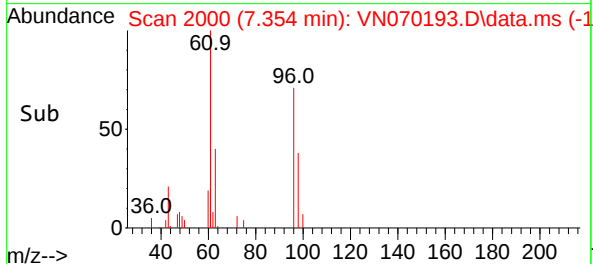
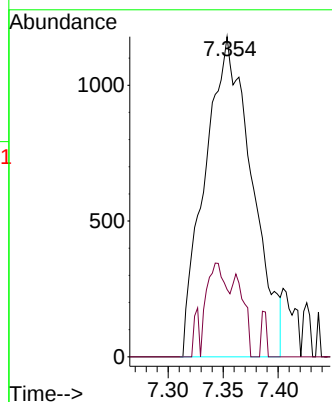
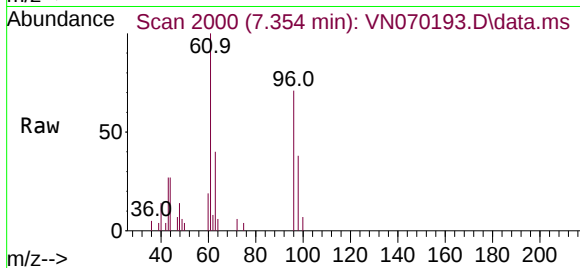
ClientSampleId :

Tgt Ion: 43 Resp: 3495

Ion Ratio Lower Upper

43 100

72 21.0 21.7 32.5#



#27

cis-1,2-Dichloroethene

Concen: 1.588 ug/l

RT: 7.329 min Scan# 1991

Delta R.T. 0.003 min

Lab File: VN070193.D

Acq: 18 Dec 2021 4:32

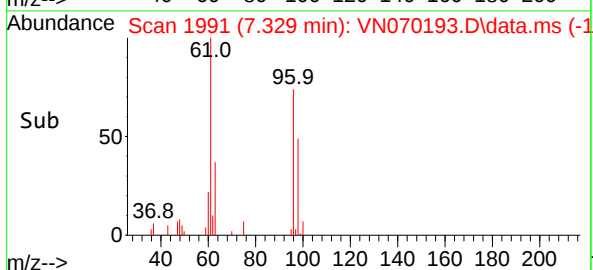
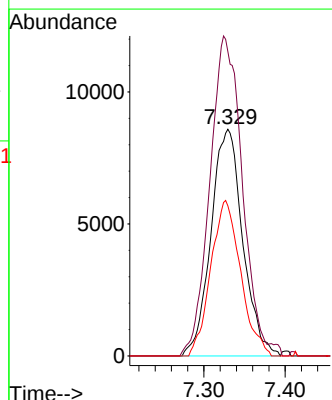
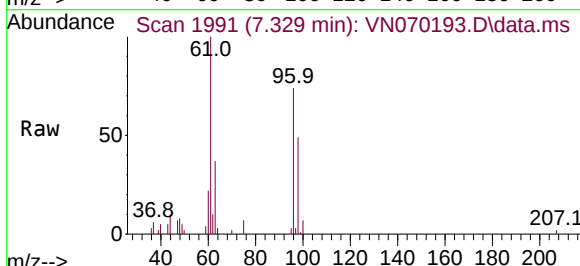
Tgt Ion: 96 Resp: 23339

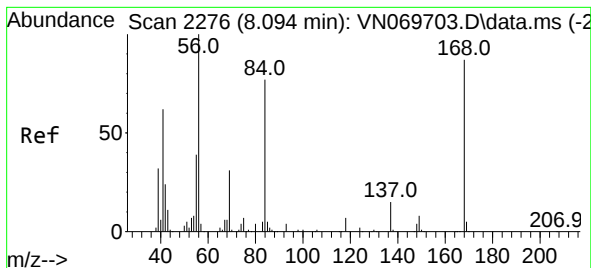
Ion Ratio Lower Upper

96 100

61 144.5 0.0 275.0

98 64.4 0.0 129.6





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.008 min

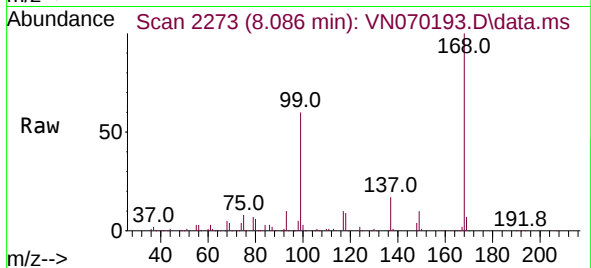
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Acq: 18 Dec 2021 4:32

Instrument :

MSVOA_N

ClientSampleId :



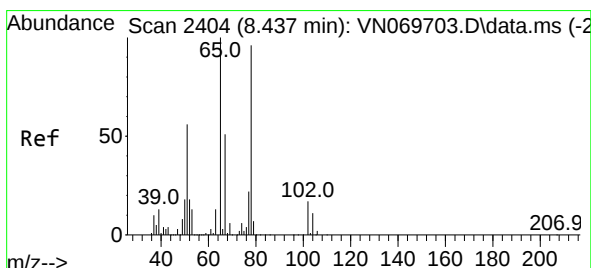
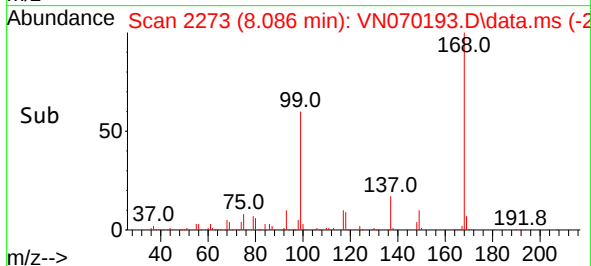
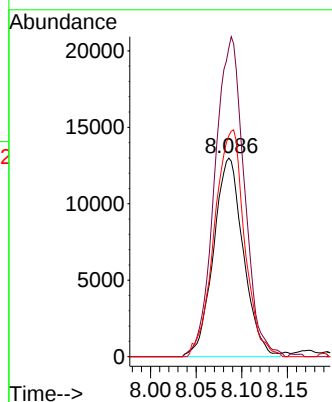
Tgt Ion: 56 Resp: 29540

Ion Ratio Lower Upper

56 100

69 155.5 27.1 40.7#

84 111.3 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 51.462 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VN070193.D

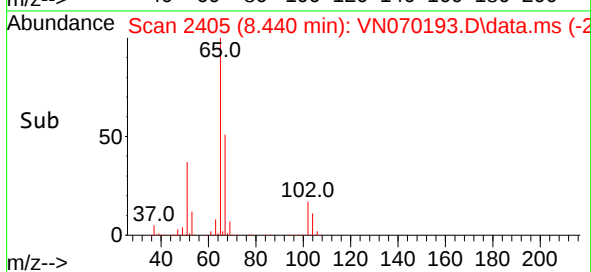
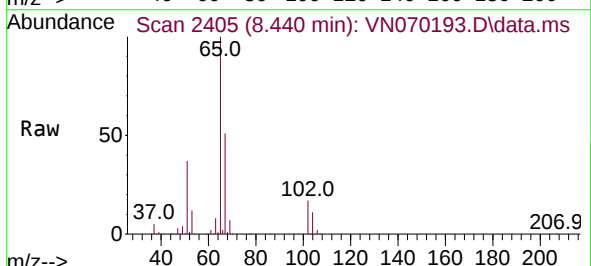
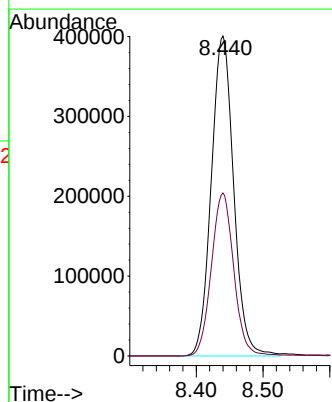
Acq: 18 Dec 2021 4:32

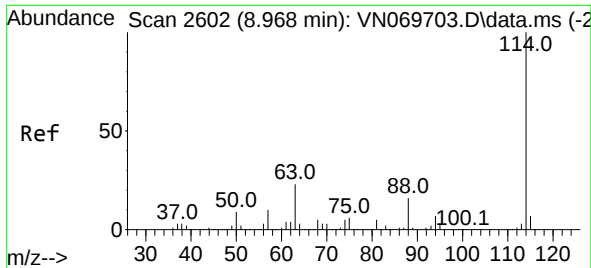
Tgt Ion: 65 Resp: 933946

Ion Ratio Lower Upper

65 100

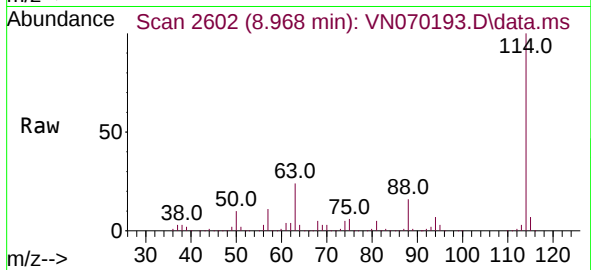
67 51.0 0.0 103.0



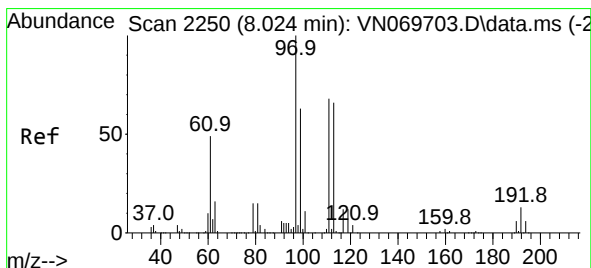
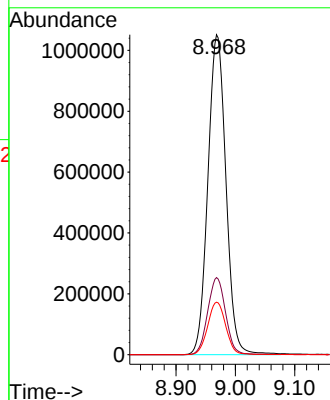
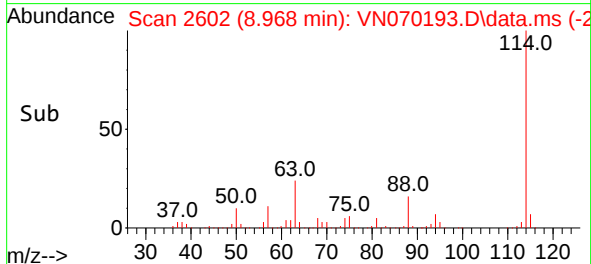


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Instrument :
MSVOA_N
ClientSampleId :

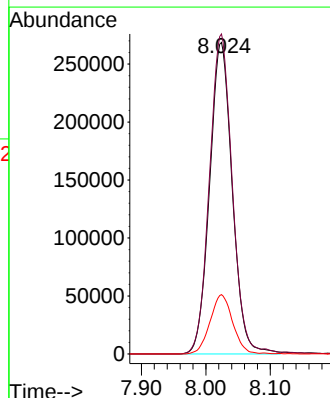
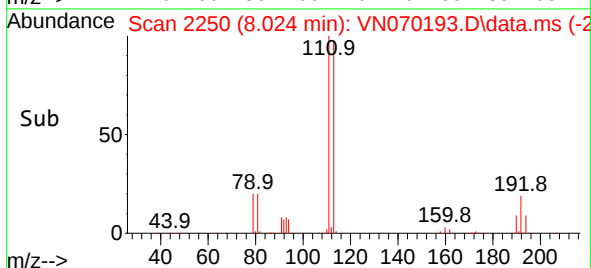
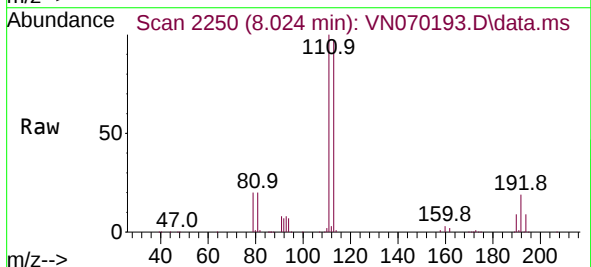


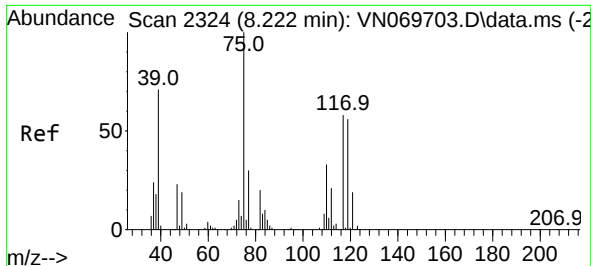
Tgt Ion:114 Resp: 2219250
Ion Ratio Lower Upper
114 100
63 24.1 0.0 37.8
88 16.4 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.169 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion:113 Resp: 655692
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.2
192 19.0 16.9 25.3

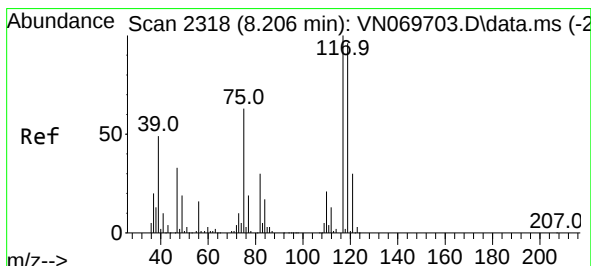
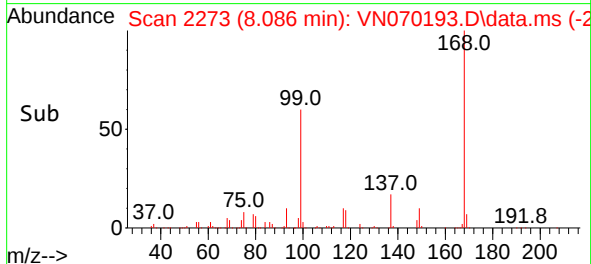
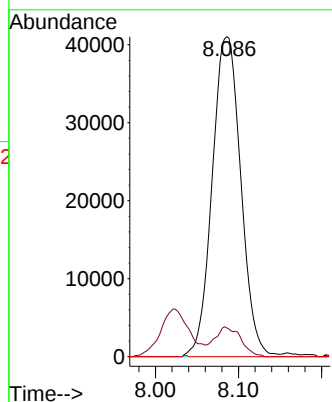
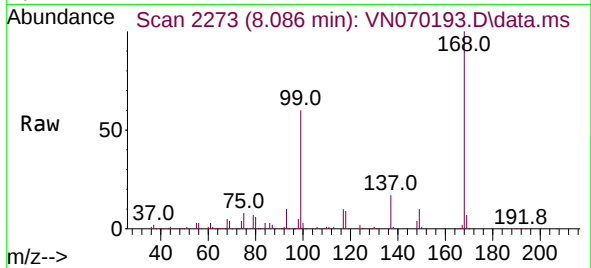




#36
1,1-Dichloropropene
Concen: 4.652 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

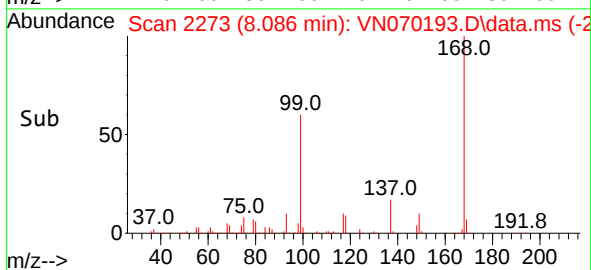
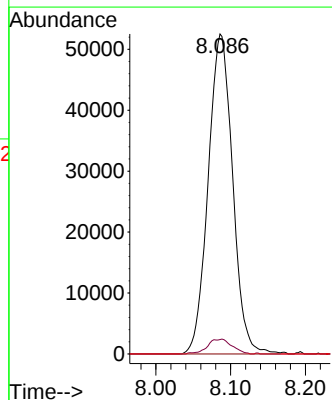
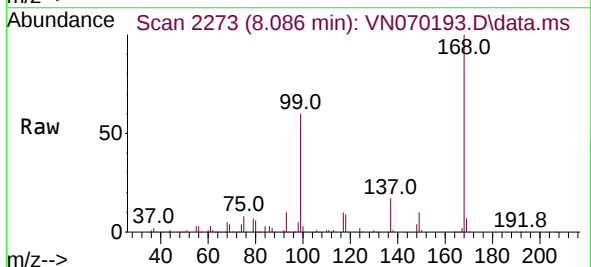
Instrument :
MSVOA_N
ClientSampleId :

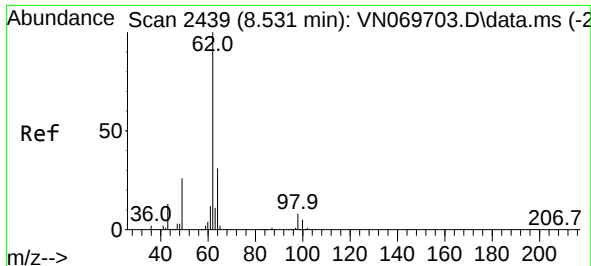
Tgt Ion: 75 Resp: 98288
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.754 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion: 117 Resp: 119205
Ion Ratio Lower Upper
117 100
119 4.5 76.1 114.1#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.232 ug/l

RT: 8.528 min Scan# 2438

Delta R.T. -0.002 min

Lab File: VN070193.D

Acq: 18 Dec 2021 4:32

Instrument :

MSVOA_N

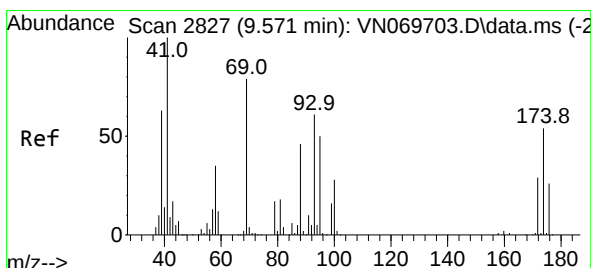
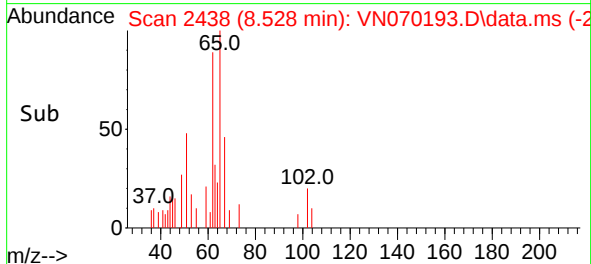
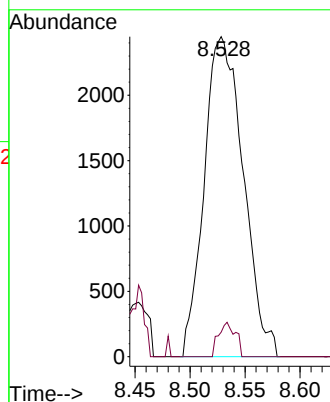
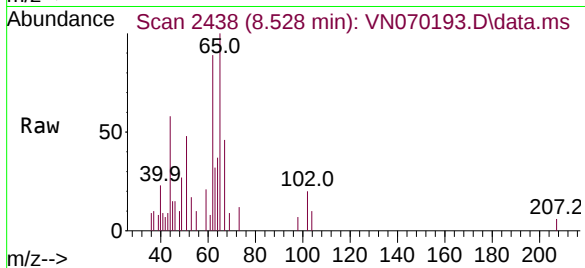
ClientSampleId :

Tgt Ion: 62 Resp: 6053

Ion Ratio Lower Upper

62 100

98 4.7 0.0 17.6



#49

1,4-Dioxane

Concen: 14.775 ug/l

RT: 9.580 min Scan# 2830

Delta R.T. 0.008 min

Lab File: VN070193.D

Acq: 18 Dec 2021 4:32

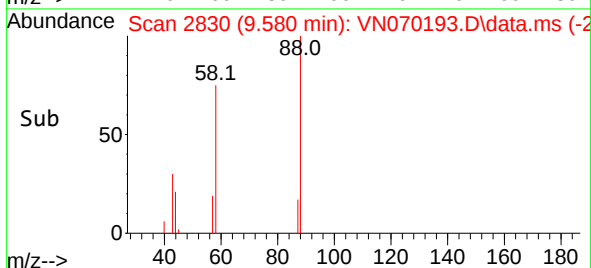
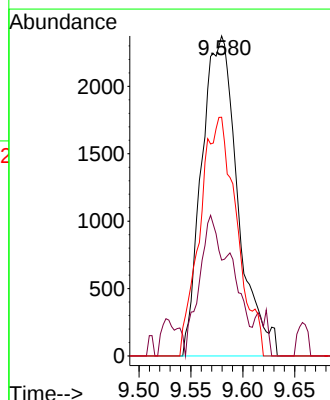
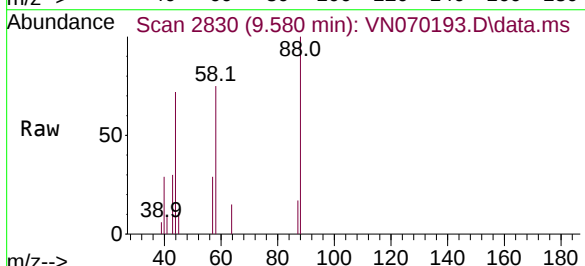
Tgt Ion: 88 Resp: 5757

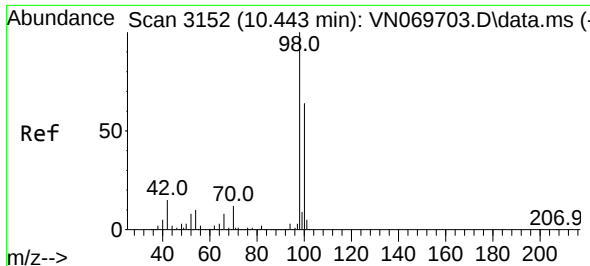
Ion Ratio Lower Upper

88 100

43 26.5 23.4 35.2

58 75.4 50.6 75.8

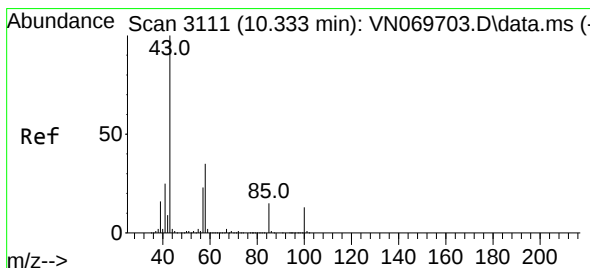
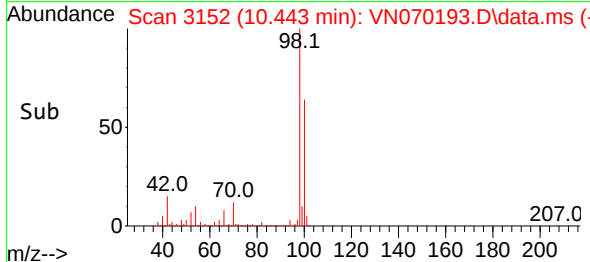
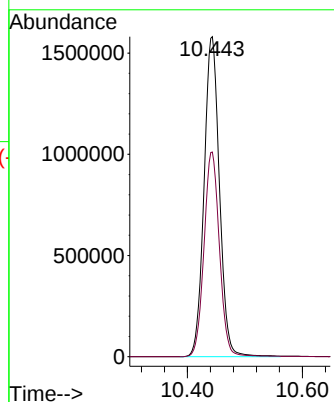
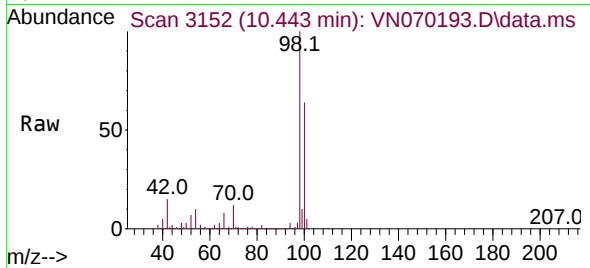




#50
Toluene-d8
Concen: 52.646 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

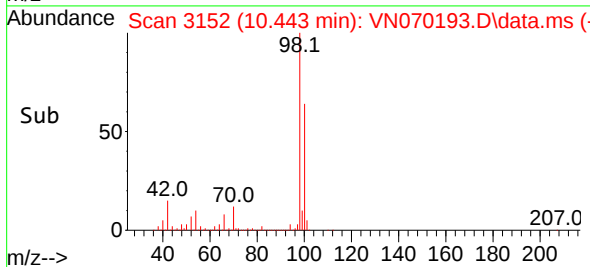
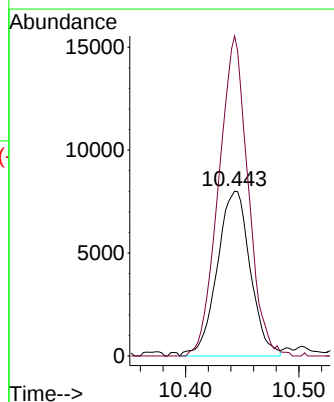
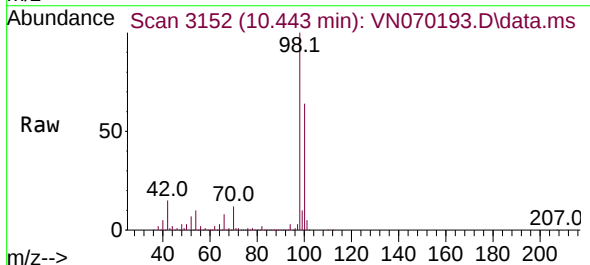
Instrument :
MSVOA_N
ClientSampleId :

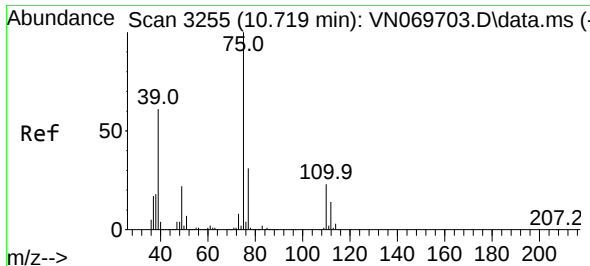
Tgt Ion: 98 Resp: 2938531
Ion Ratio Lower Upper
98 100
100 64.1 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.536 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.110 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

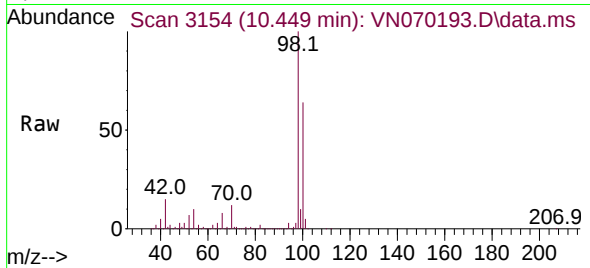
Tgt Ion: 43 Resp: 16193
Ion Ratio Lower Upper
43 100
58 173.7 30.4 45.6#



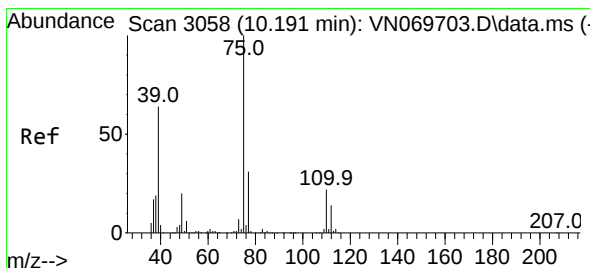
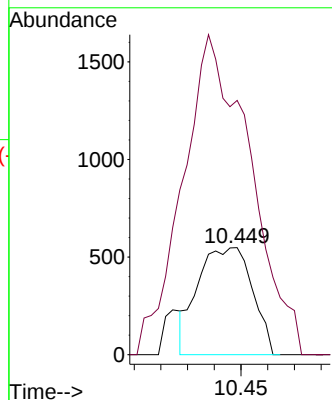
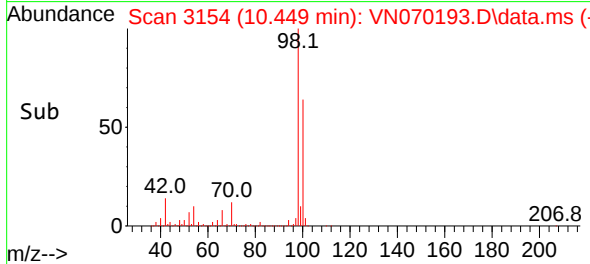


#53
t-1,3-Dichloropropene
Concen: 2.822 ug/l
RT: 10.449 min Scan# 3154
Delta R.T. -0.270 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

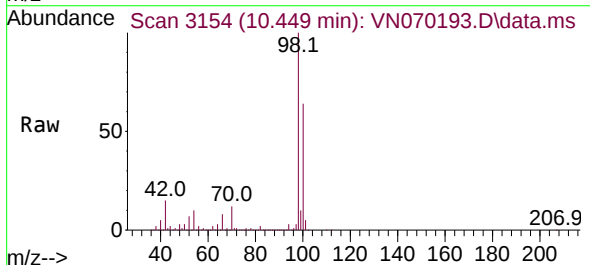
Instrument :
MSVOA_N
ClientSampleId :



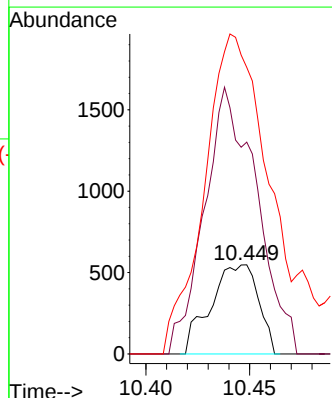
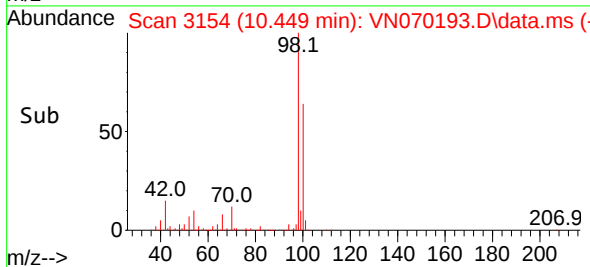
Tgt Ion: 75 Resp: 776
Ion Ratio Lower Upper
75 100
77 184.3 25.6 38.4#

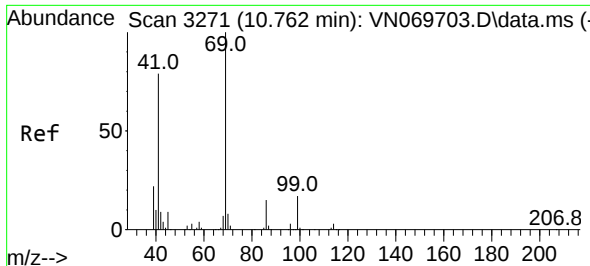


#54
cis-1,3-Dichloropropene
Concen: 2.030 ug/l
RT: 10.449 min Scan# 3154
Delta R.T. 0.258 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32



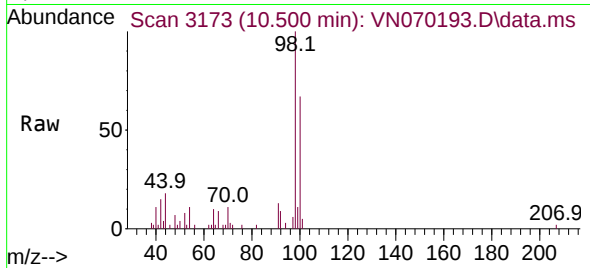
Tgt Ion: 75 Resp: 880
Ion Ratio Lower Upper
75 100
77 200.9 26.4 39.6#
39 255.3 42.5 63.7#



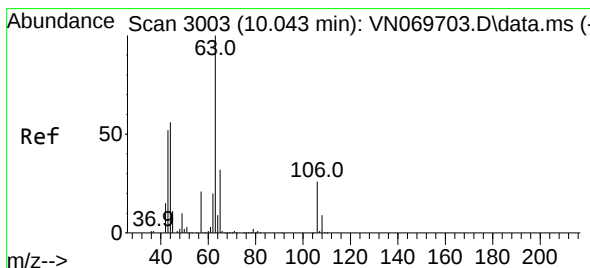
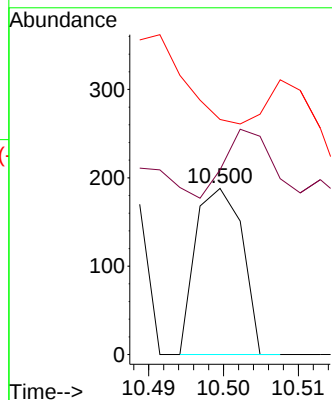
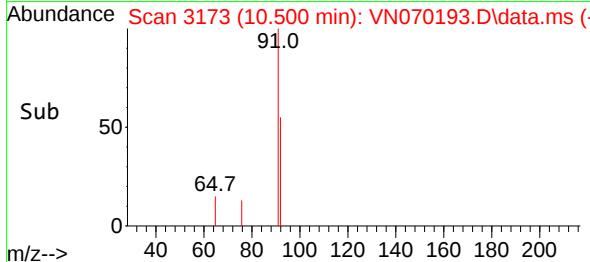


#56
Ethyl methacrylate
Concen: 2.282 ug/l
RT: 10.500 min Scan# 3173
Delta R.T. -0.262 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Instrument :
MSVOA_N
ClientSampleId :

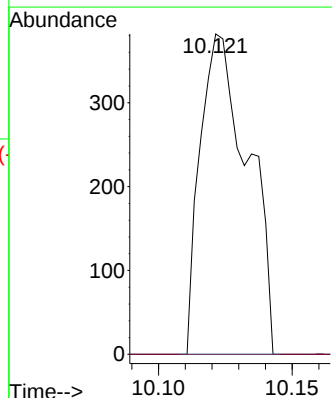
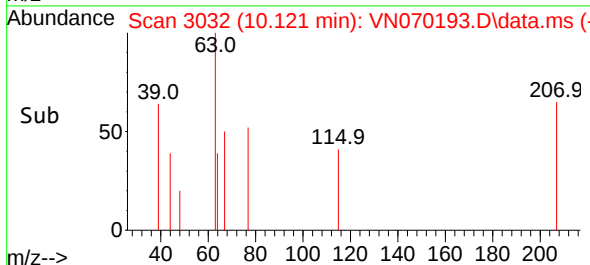
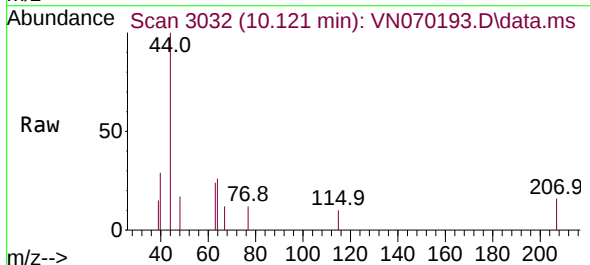


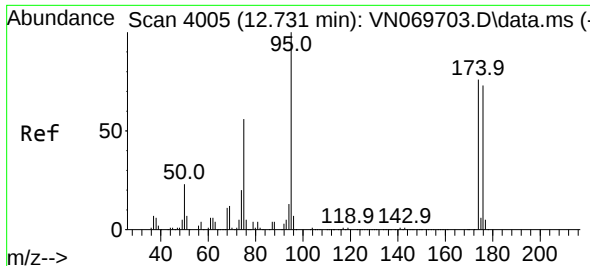
Tgt Ion: 69 Resp: 82
Ion Ratio Lower Upper
69 100
41 289.0 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.443 ug/l
RT: 10.121 min Scan# 3032
Delta R.T. 0.078 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion: 63 Resp: 473
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

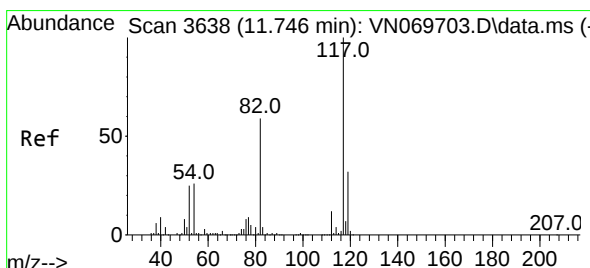
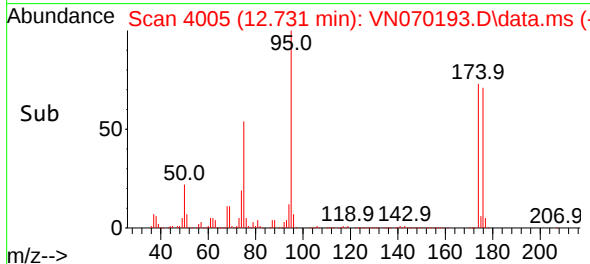
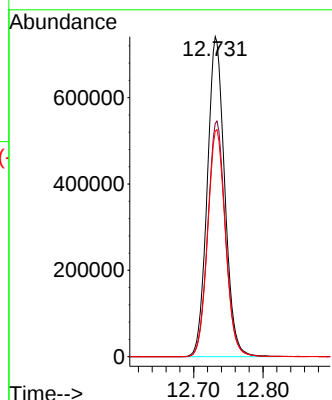
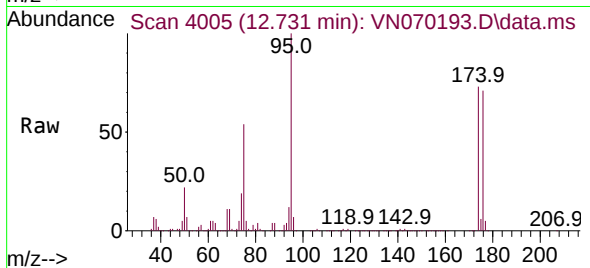




#62
4-Bromofluorobenzene
Concen: 64.080 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

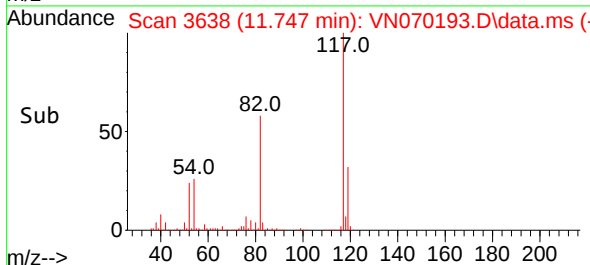
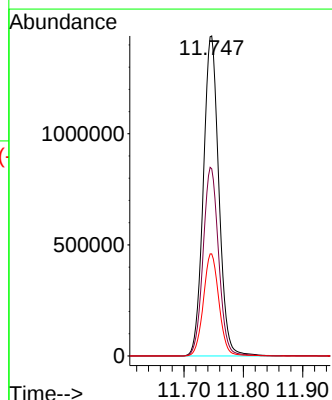
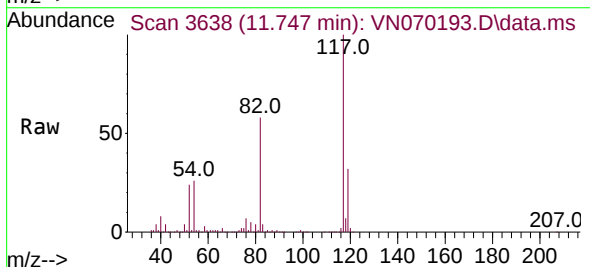
Instrument :
MSVOA_N
ClientSampleId :

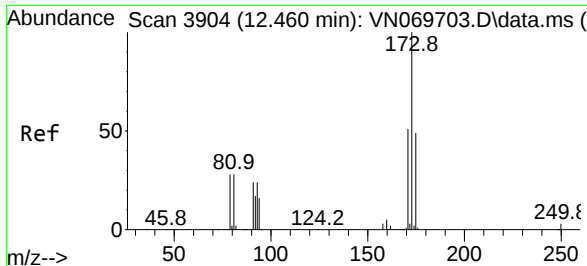
Tgt Ion: 95 Resp: 1295776
Ion Ratio Lower Upper
95 100
174 74.8 0.0 187.2
176 72.1 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion: 117 Resp: 2615309
Ion Ratio Lower Upper
117 100
82 58.5 42.4 63.6
119 31.9 25.4 38.2

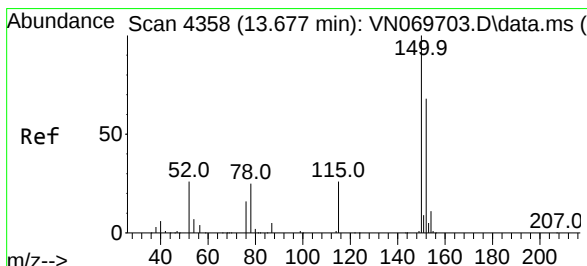
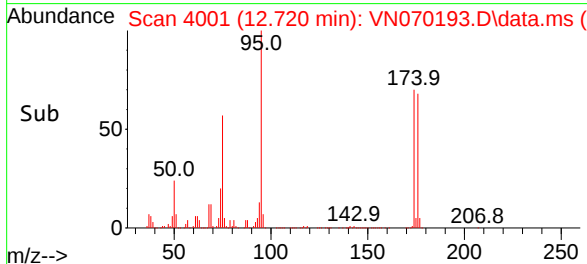
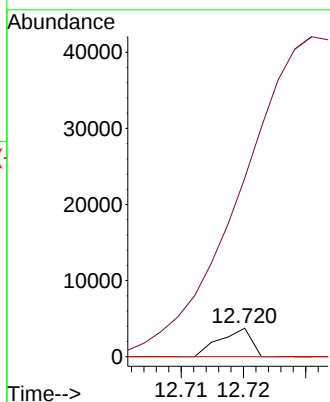
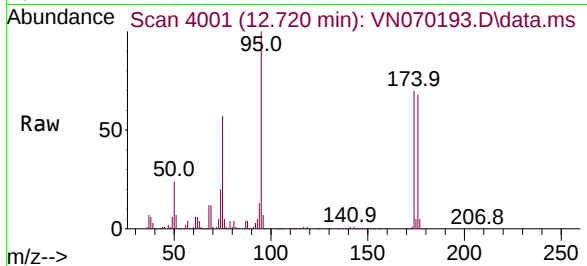




#71
Bromoform
Concen: 2.809 ug/l
RT: 12.720 min Scan# 4001
Delta R.T. 0.260 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

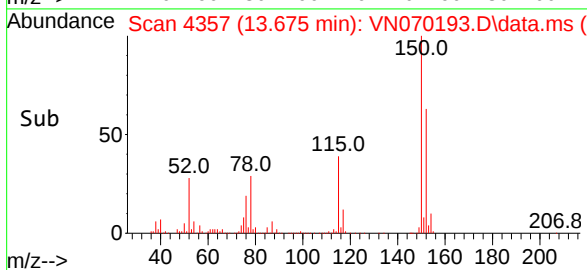
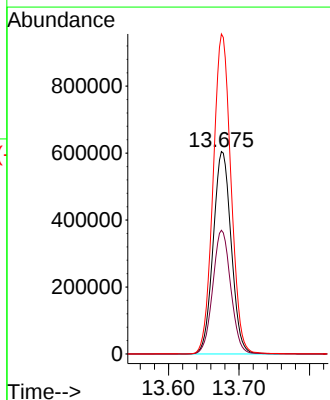
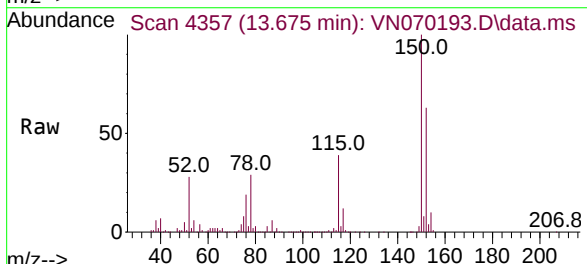
Instrument :
MSVOA_N
ClientSampleId :

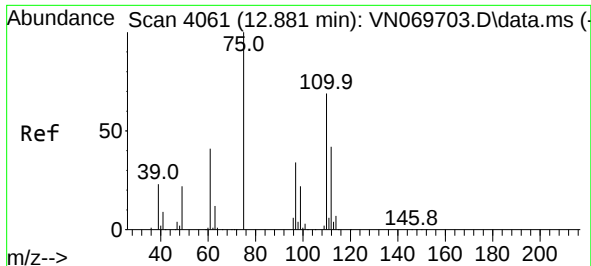
Tgt Ion:173 Resp: 1324
Ion Ratio Lower Upper
173 100
175 5132.4 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.002 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Tgt Ion:152 Resp: 1073905
Ion Ratio Lower Upper
152 100
115 60.9 27.5 82.5
150 156.6 0.0 344.4

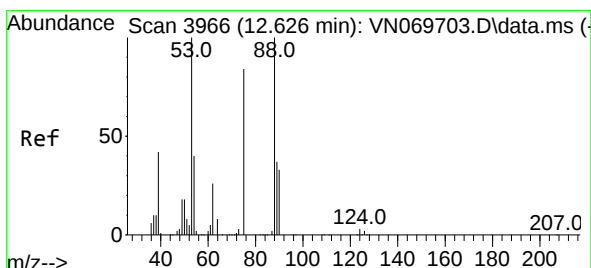
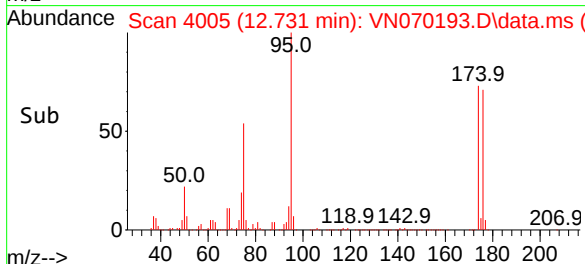
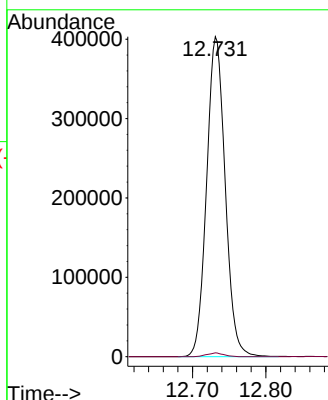
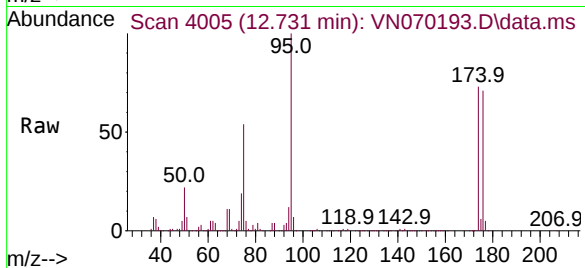




#76
1,2,3-Trichloropropane
Concen: 23.054 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

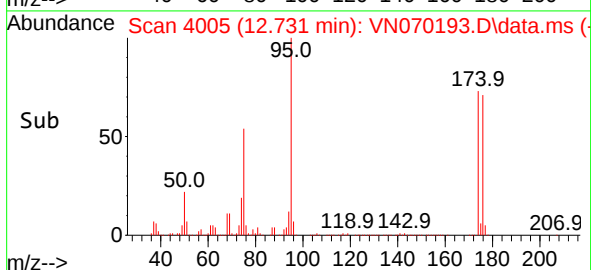
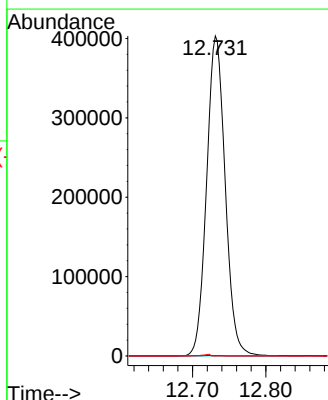
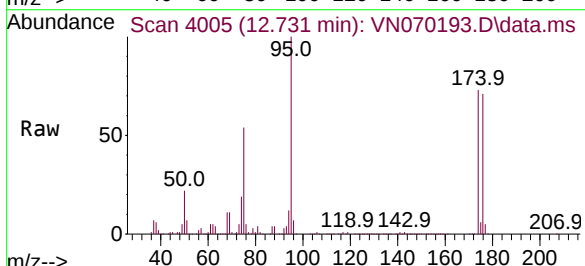
Instrument :
MSVOA_N
ClientSampleId :

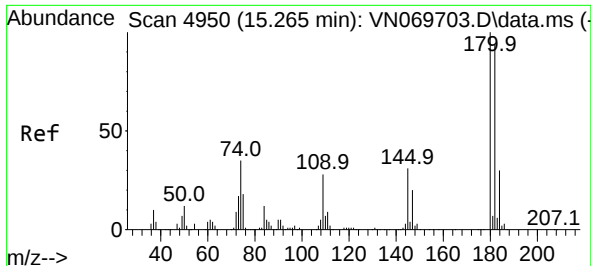
Tgt Ion: 75 Resp: 709983
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.384 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

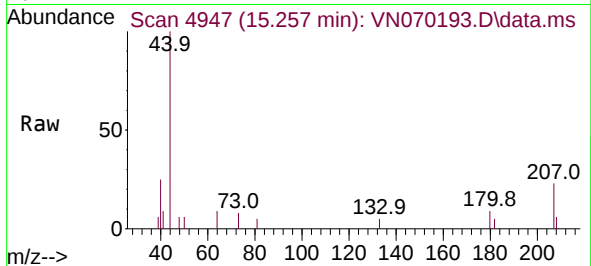
Tgt Ion: 75 Resp: 709983
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.2 38.2 57.4#



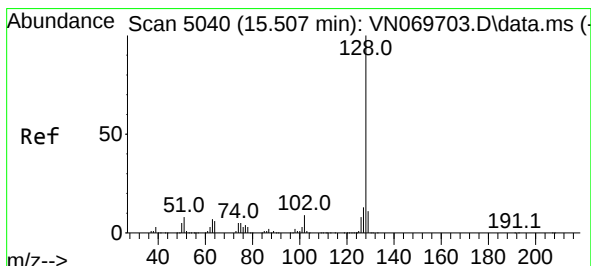
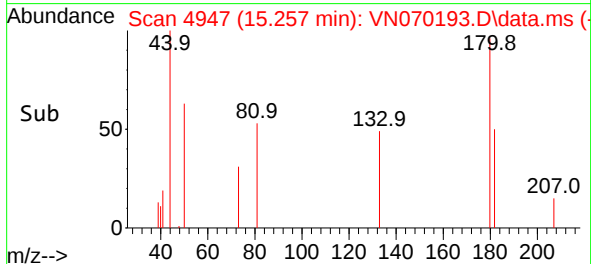
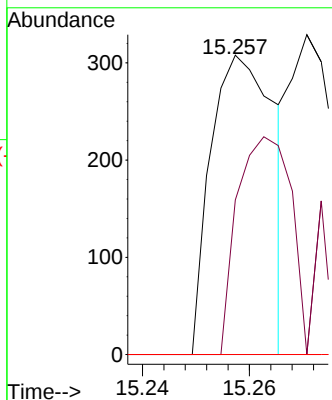


#93
1,2,4-Trichlorobenzene
Concen: 2.891 ug/l
RT: 15.257 min Scan# 4947
Delta R.T. -0.008 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

Instrument :
MSVOA_N
ClientSampleId :

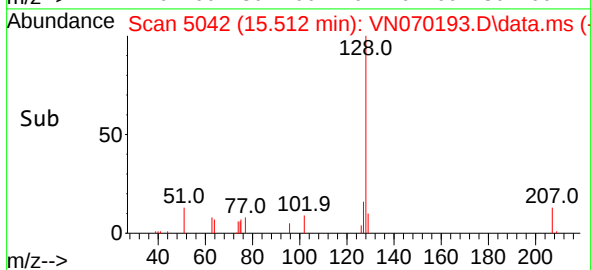
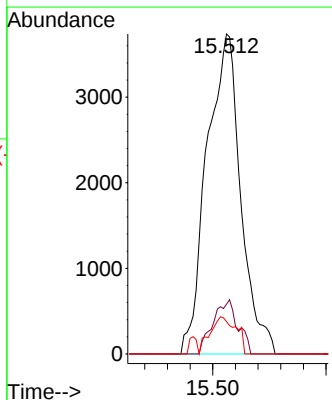
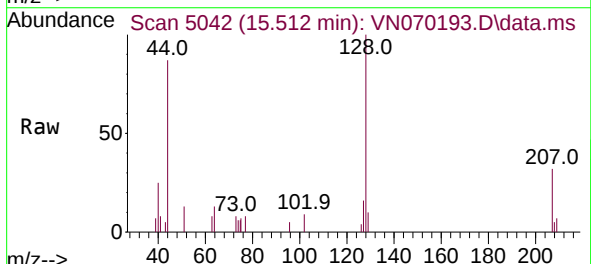


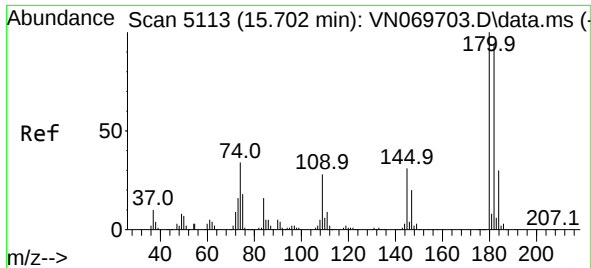
Tgt Ion:180 Resp: 254
Ion Ratio Lower Upper
180 100
182 71.7 48.3 144.9
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.121 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN070193.D
Acq: 18 Dec 2021 4:32

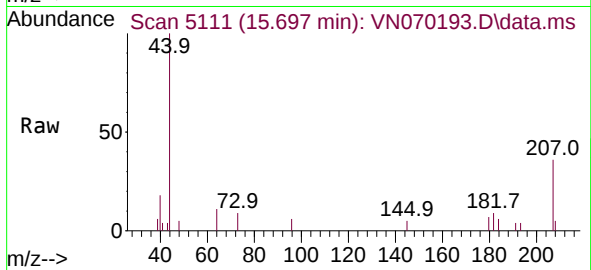
Tgt Ion:128 Resp: 7756
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 9.0 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.448 ug/l
 RT: 15.697 min Scan# 51
 Delta R.T. -0.005 min
 Lab File: VN070193.D
 Acq: 18 Dec 2021 4:32

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 218
 Ion Ratio Lower Upper
 180 100
 182 192.7 47.4 142.2#
 145 29.8 15.0 45.1

