

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120421\
 Data File : VN069769.D
 Acq On : 4 Dec 2021 16:47
 Operator : JC/MD
 Sample : M4922-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP06-20211130

Quant Time: Dec 06 00:17:34 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)

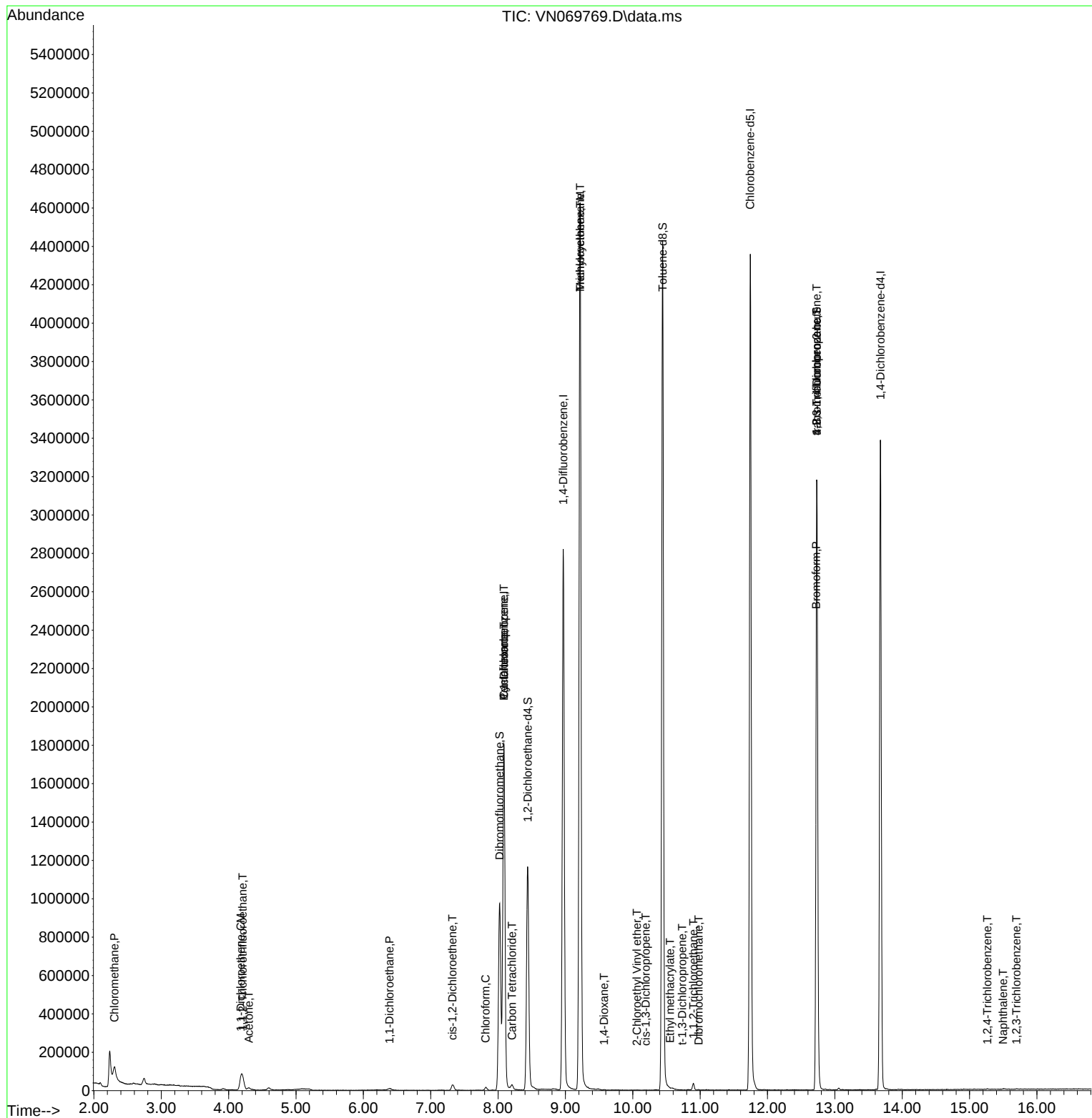
Internal Standards						
1) Pentafluorobenzene	8.088	168	1343922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2375619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2429434	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	900673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1027588	49.522	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.040%		
35) Dibromofluoromethane	8.021	113	709460	47.678	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.360%		
50) Toluene-d8	10.443	98	3016853	50.492	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.980%		
62) 4-Bromofluorobenzene	12.731	95	1114922	51.507	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	103.020%		
Target Compounds						Qvalue
3) Chloromethane	2.303	50	5263	0.268	ug/l #	79
9) 1,1,2-Trichlorotrifluo...	4.208	101	38505	2.898	ug/l	96
12) 1,1-Dichloroethene	4.181	96	26495	2.070	ug/l	97
16) Acetone	4.299	43	21283	1.705	ug/l	92
24) 1,1-Dichloroethane	6.385	63	6567	0.225	ug/l #	93
27) cis-1,2-Dichloroethene	7.321	96	16666	0.992	ug/l	84
30) Chloroform	7.815	83	14181	0.481	ug/l #	81
31) Cyclohexane	8.086	56	36223	1.254	ug/l #	40
36) 1,1-Dichloropropene	8.086	75	115592	5.111	ug/l #	49
38) Carbon Tetrachloride	8.206	117	16736	0.755	ug/l	87
39) Methylcyclohexane	9.218	83	22641	0.842	ug/l #	1
44) Trichloroethene	9.218	130	1626207	98.565	ug/l	91
49) 1,4-Dioxane	9.572	88	860	2.062	ug/l #	51
53) t-1,3-Dichloropropene	10.733	75	52	2.796	ug/l #	43
54) cis-1,3-Dichloropropene	10.191	75	56	2.001	ug/l #	32
55) 1,1,2-Trichloroethane	10.899	97	10457	0.614	ug/l #	91
56) Ethyl methacrylate	10.553	69	93	2.282	ug/l #	33
58) 2-Chloroethyl Vinyl ether	10.060	63	58	18.395	ug/l #	45
60) Dibromochloromethane	10.980	129	340	2.394	ug/l #	11
71) Bromoform	12.723	173	2711	2.904	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	623694	24.147	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	623694	76.672	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.263	180	696	2.922	ug/l #	15
95) Naphthalene	15.499	128	1573	4.018	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.697	180	516	2.470	ug/l #	50

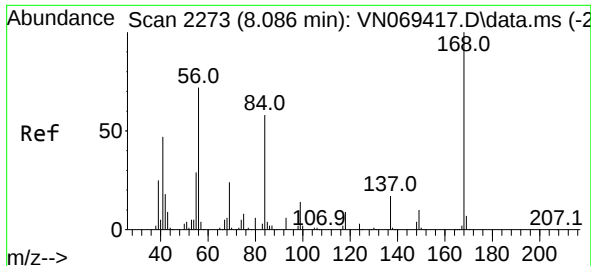
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

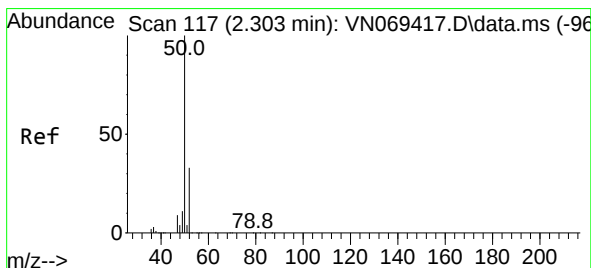
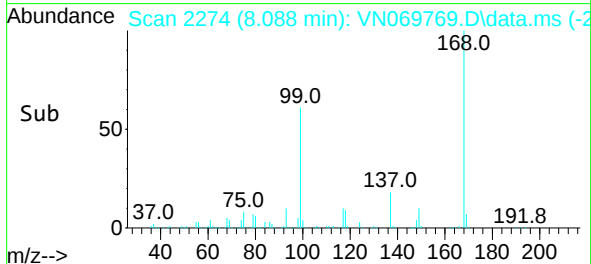
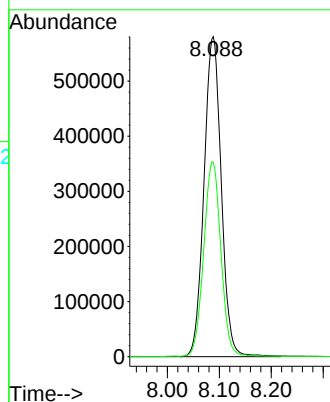
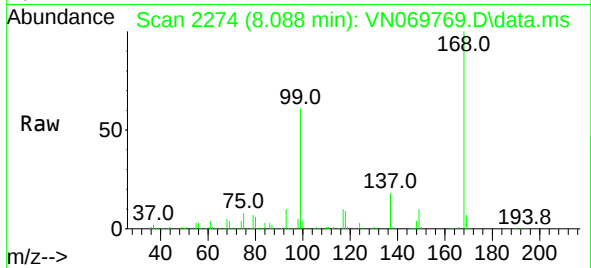




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

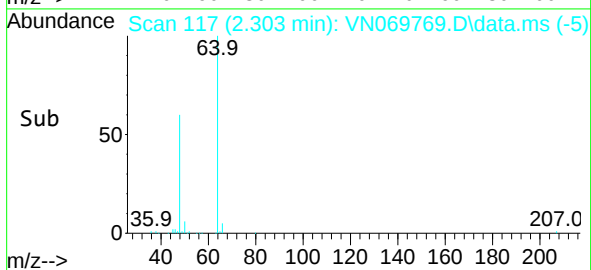
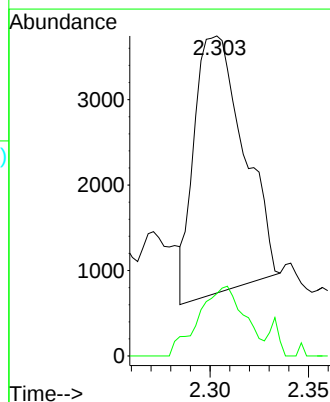
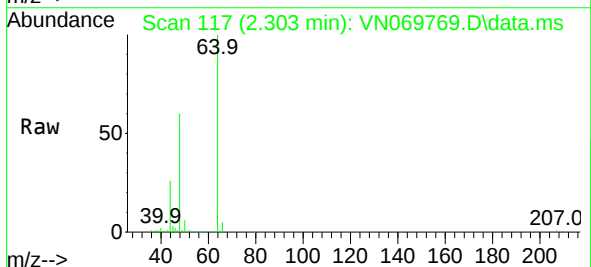
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

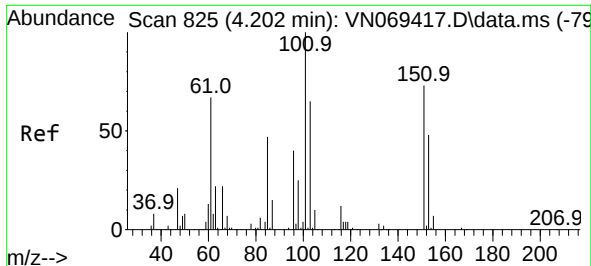
Tgt Ion:168 Resp: 1343922
Ion Ratio Lower Upper
168 100
99 60.6 41.3 61.9



#3
Chloromethane
Concen: 0.268 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 50 Resp: 5263
Ion Ratio Lower Upper
50 100
52 20.1 25.4 38.0#

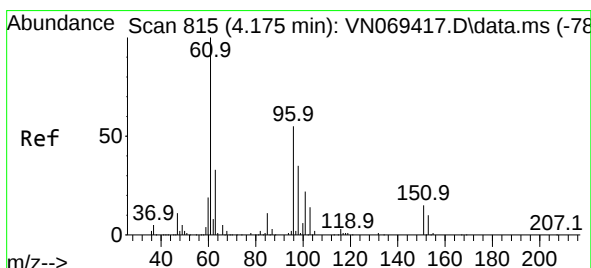
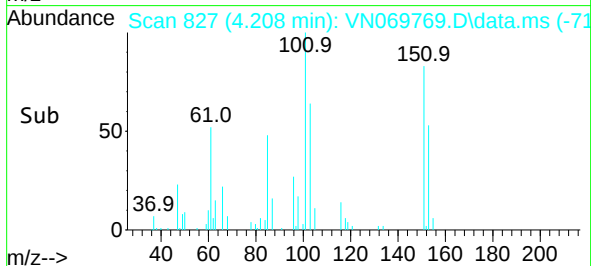
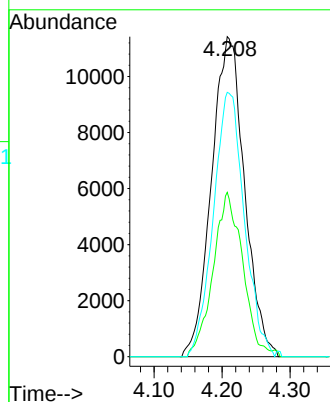
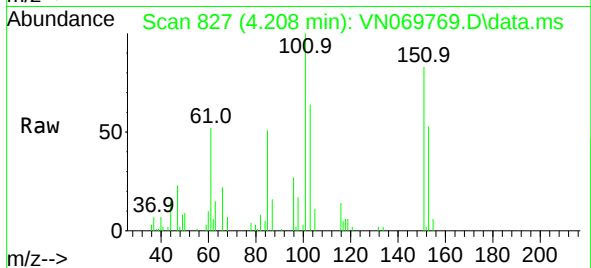




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.898 ug/l
 RT: 4.208 min Scan# 817
 Delta R.T. 0.006 min
 Lab File: VN069769.D
 Acq: 4 Dec 2021 16:47

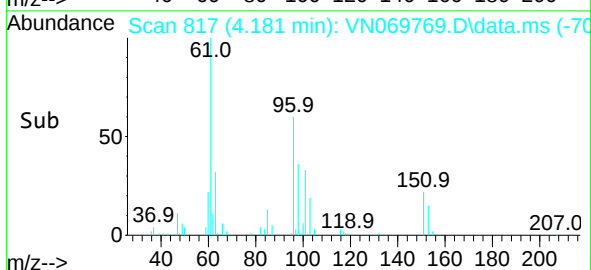
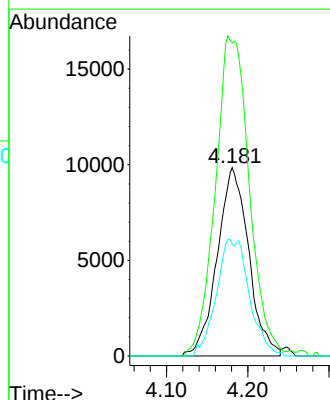
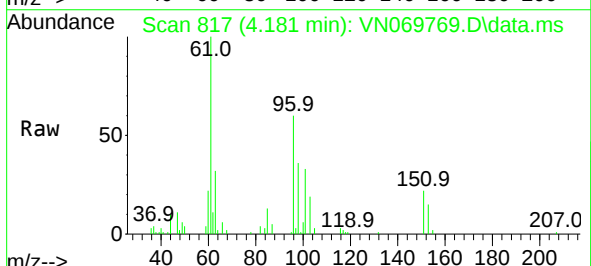
Instrument :
 MSVOA_N
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 DUP06-20211130

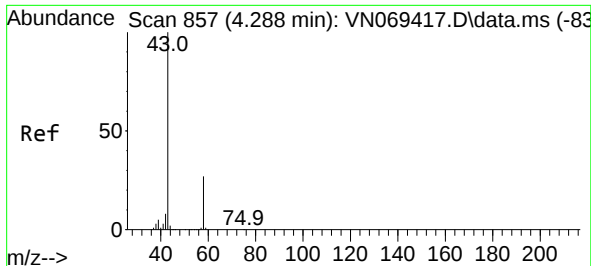
Tgt Ion:101 Resp: 38505
 Ion Ratio Lower Upper
 101 100
 85 45.9 37.2 55.8
 151 77.6 65.9 98.9



#12
 1,1-Dichloroethene
 Concen: 2.070 ug/l
 RT: 4.181 min Scan# 817
 Delta R.T. 0.006 min
 Lab File: VN069769.D
 Acq: 4 Dec 2021 16:47

Tgt Ion: 96 Resp: 26495
 Ion Ratio Lower Upper
 96 100
 61 166.1 131.0 196.6
 98 59.4 52.4 78.6

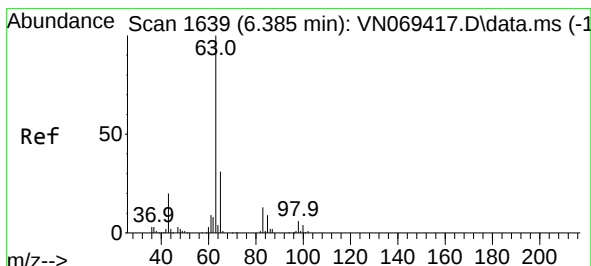
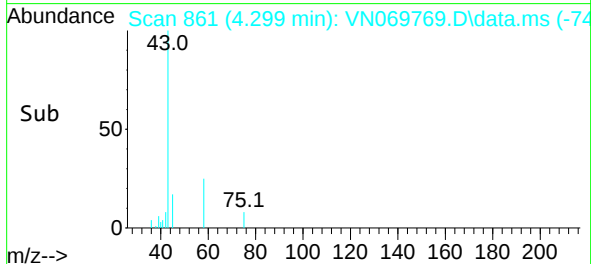
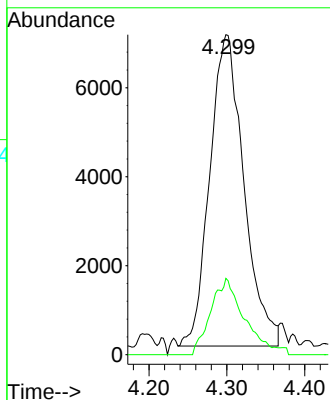
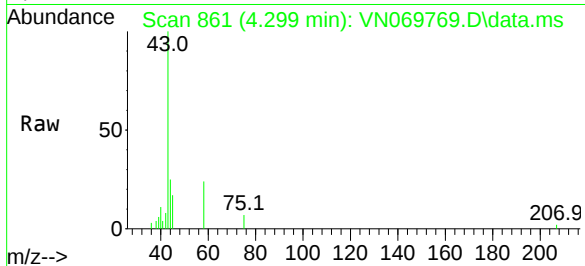




#16
Acetone
Concen: 1.705 ug/l
RT: 4.299 min Scan# 80
Delta R.T. 0.008 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

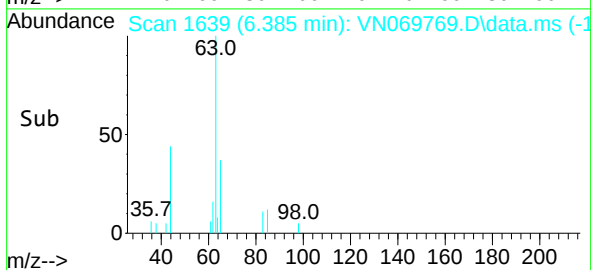
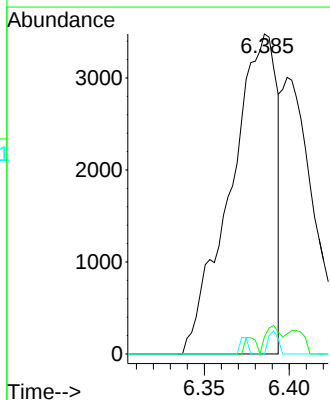
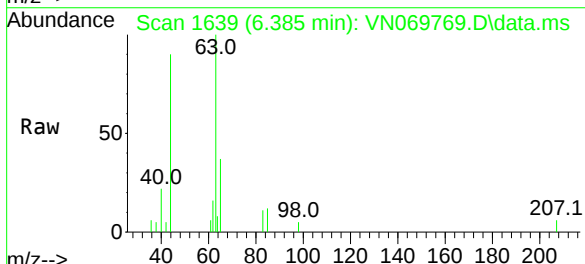
Instrument :
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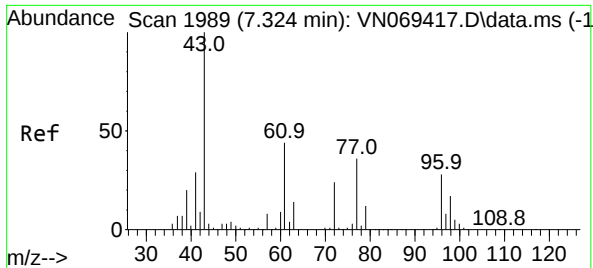
Tgt Ion: 43 Resp: 21283
Ion Ratio Lower Upper
43 100
58 24.5 23.1 34.7



#24
1,1-Dichloroethane
Concen: 0.225 ug/l
RT: 6.385 min Scan# 1639
Delta R.T. -0.002 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 63 Resp: 6567
Ion Ratio Lower Upper
63 100
98 5.4 3.3 9.9
100 0.0 2.1 6.5#

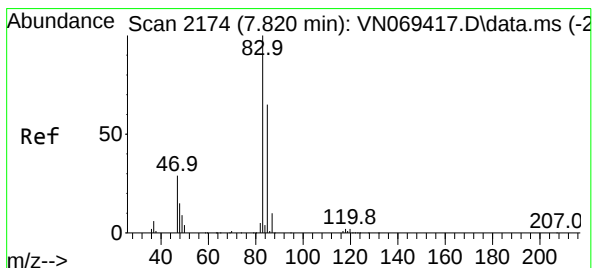
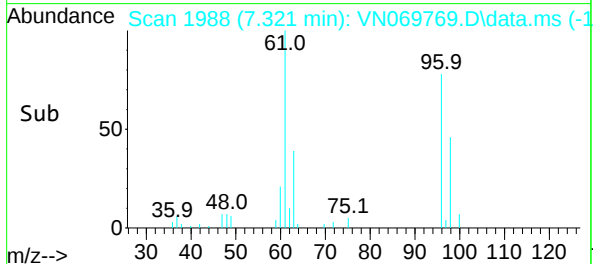
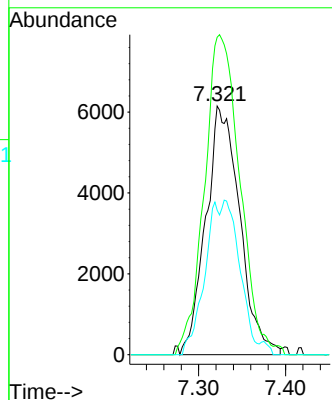
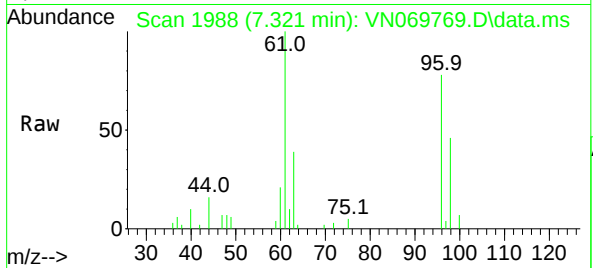




#27
 cis-1,2-Dichloroethene
 Concen: 0.992 ug/l
 RT: 7.321 min Scan# 1989
 Delta R.T. -0.005 min
 Lab File: VN069769.D
 Acq: 4 Dec 2021 16:47

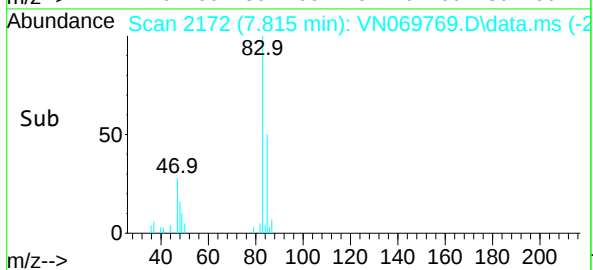
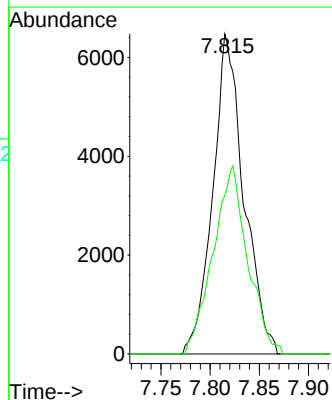
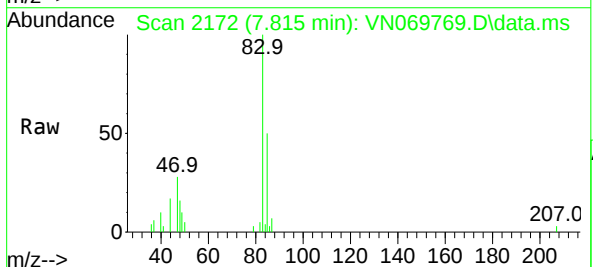
Instrument :
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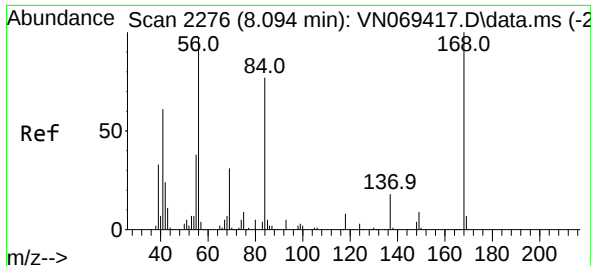
Tgt Ion:	96	Resp:	16666
Ion	Ratio	Lower	Upper
96	100		
61	134.6	0.0	275.0
98	28.6	0.0	129.6



#30
 Chloroform
 Concen: 0.481 ug/l
 RT: 7.815 min Scan# 2172
 Delta R.T. -0.005 min
 Lab File: VN069769.D
 Acq: 4 Dec 2021 16:47

Tgt Ion:	83	Resp:	14181
Ion	Ratio	Lower	Upper
83	100		
85	49.6	51.9	77.9#

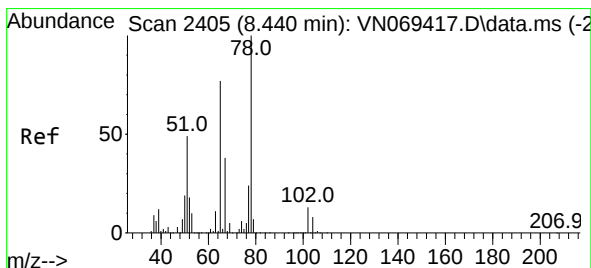
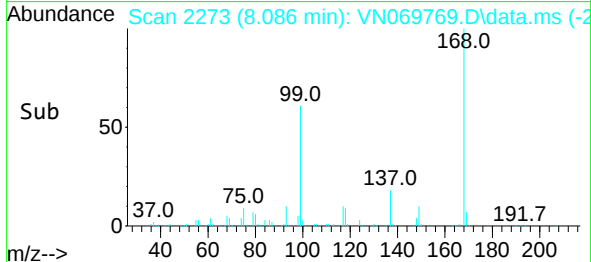
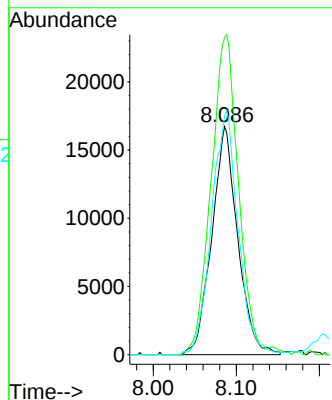
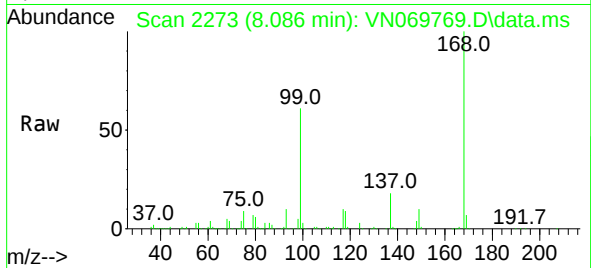




#31
Cyclohexane
Concen: 1.254 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

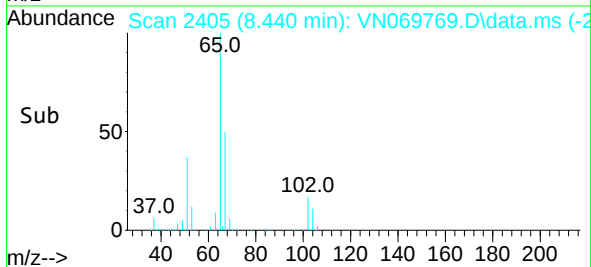
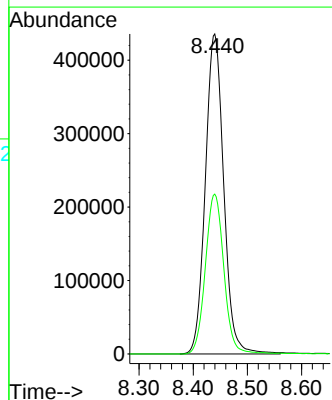
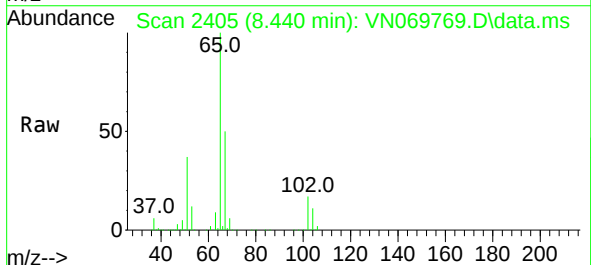
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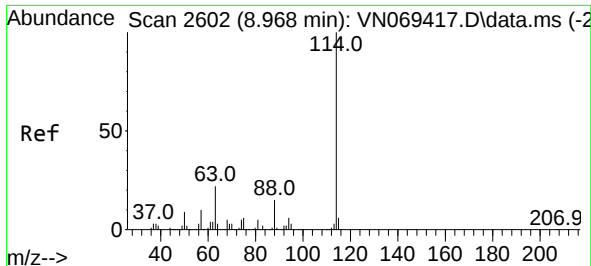
Tgt Ion: 56 Resp: 36223
Ion Ratio Lower Upper
56 100
69 138.9 27.1 40.7#
84 104.7 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 49.522 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

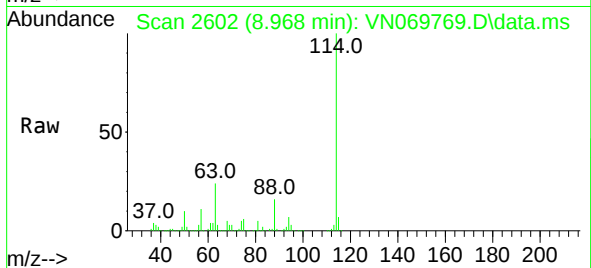
Tgt Ion: 65 Resp: 1027588
Ion Ratio Lower Upper
65 100
67 50.0 0.0 103.0



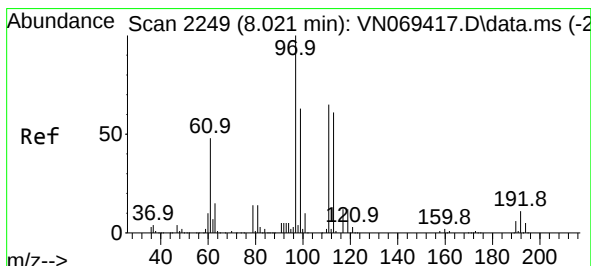
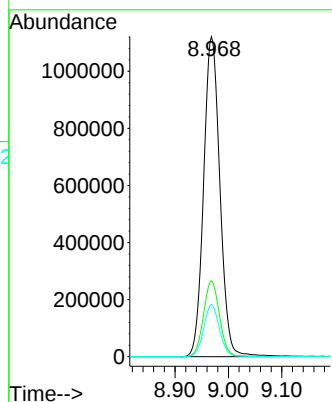
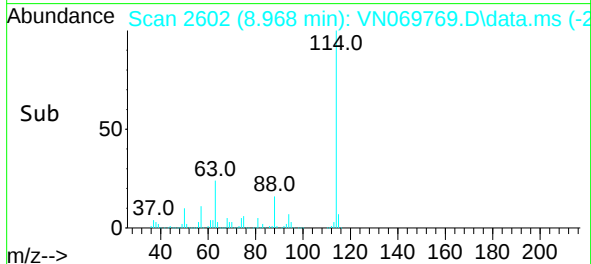


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Instrument :
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ClientSampleId :
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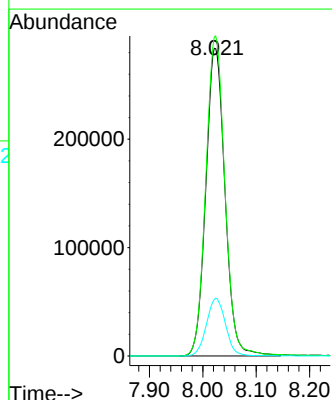
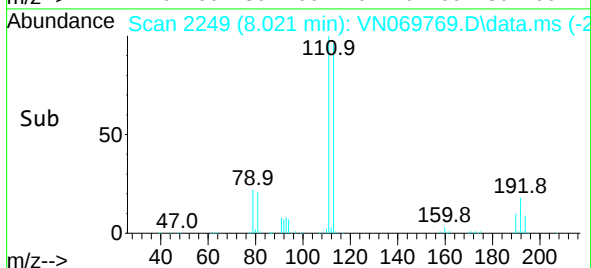
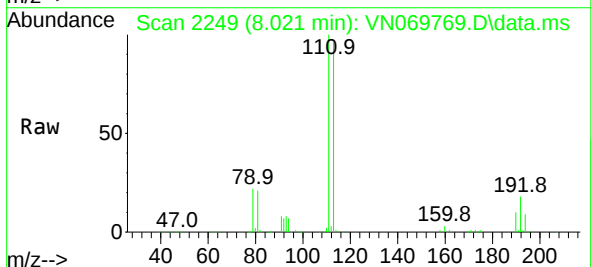


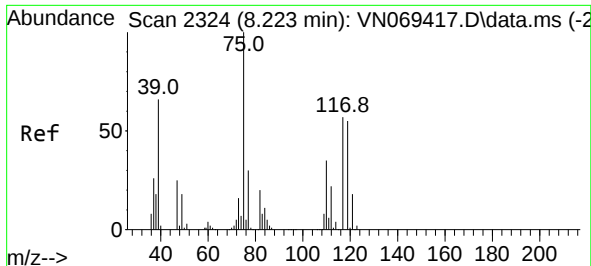
Tgt Ion:114 Resp: 2375619
Ion Ratio Lower Upper
114 100
63 23.7 0.0 37.8
88 16.4 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.678 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.002 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion:113 Resp: 709460
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.2
192 18.5 16.9 25.3

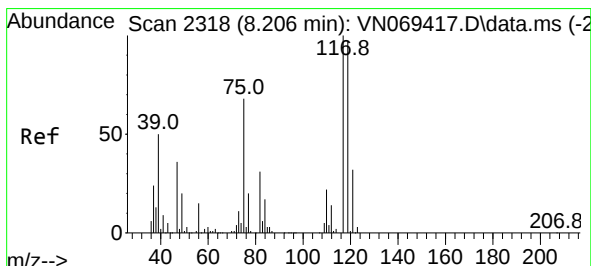
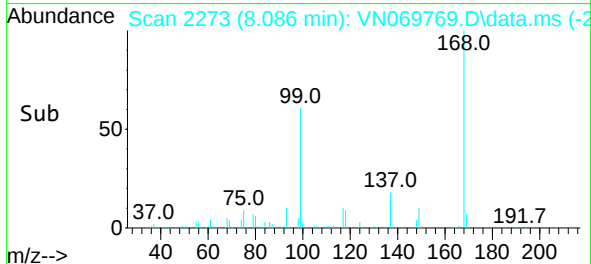
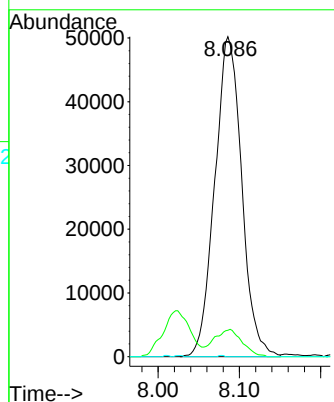
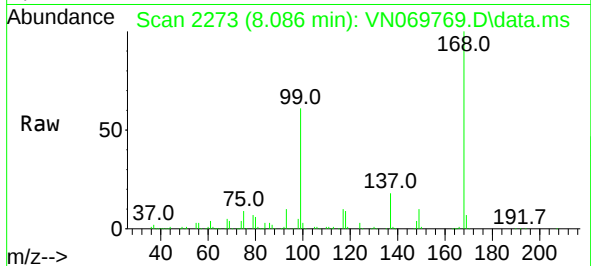




#36
1,1-Dichloropropene
Concen: 5.111 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

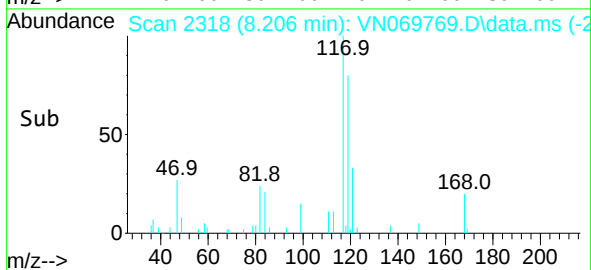
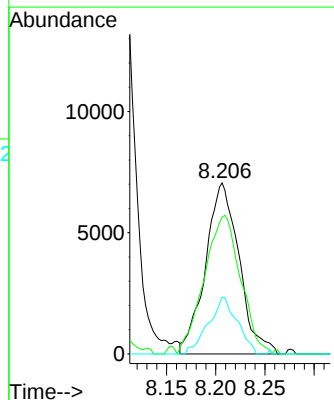
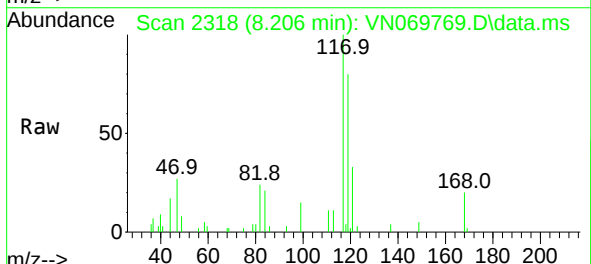
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

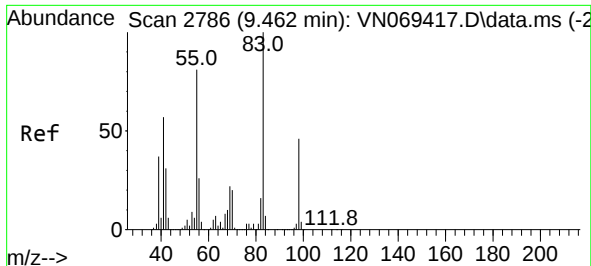
Tgt Ion: 75 Resp: 115592
Ion Ratio Lower Upper
75 100
110 8.9 18.4 55.2#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 0.755 ug/l
RT: 8.206 min Scan# 2318
Delta R.T. 0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 117 Resp: 16736
Ion Ratio Lower Upper
117 100
119 80.1 76.1 114.1
121 33.2 24.2 36.2





#39

Methylcyclohexane

Concen: 0.842 ug/l

RT: 9.218 min Scan# 2

Delta R.T. -0.244 min

Lab File: VN069769.D

Acq: 4 Dec 2021 16:47

Instrument :

MSVOA_N

ClientSampleId :

DUP06-20211130

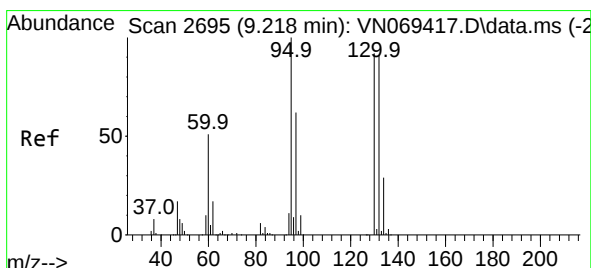
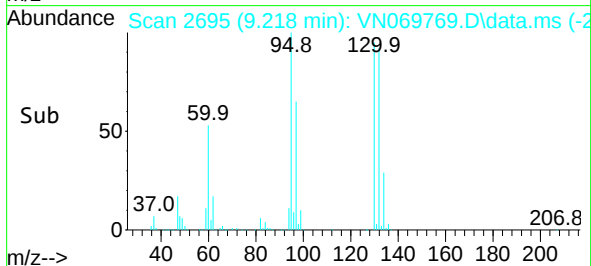
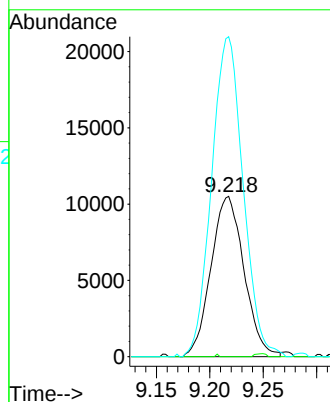
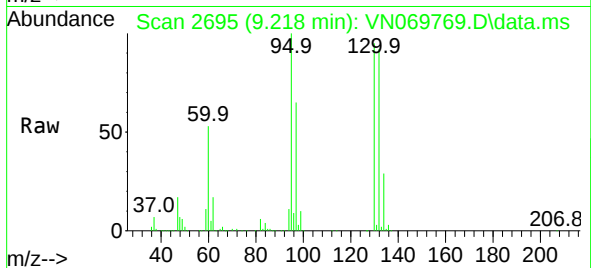
Tgt Ion: 83 Resp: 22641

Ion Ratio Lower Upper

83 100

55 0.0 58.1 87.1#

98 197.2 38.4 57.6#



#44

Trichloroethene

Concen: 98.565 ug/l

RT: 9.218 min Scan# 2695

Delta R.T. 0.001 min

Lab File: VN069769.D

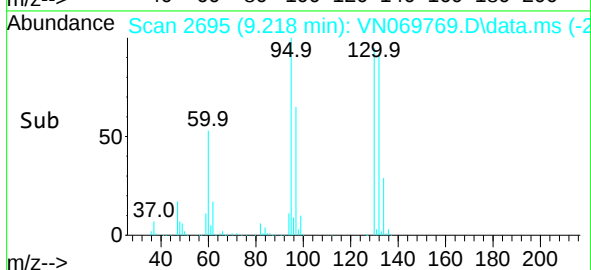
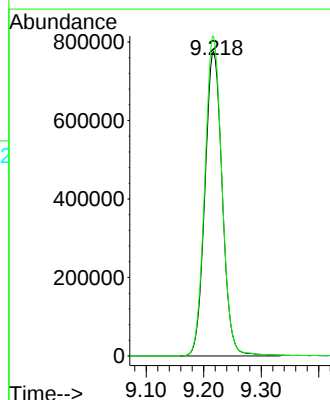
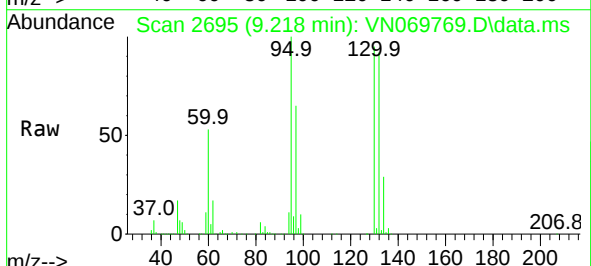
Acq: 4 Dec 2021 16:47

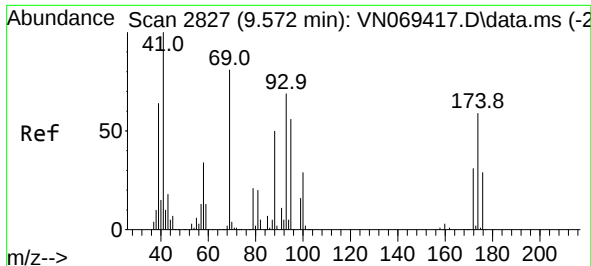
Tgt Ion:130 Resp: 1626207

Ion Ratio Lower Upper

130 100

95 104.8 0.0 191.2





#49

1,4-Dioxane

Concen: 2.062 ug/l

RT: 9.572 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN069769.D

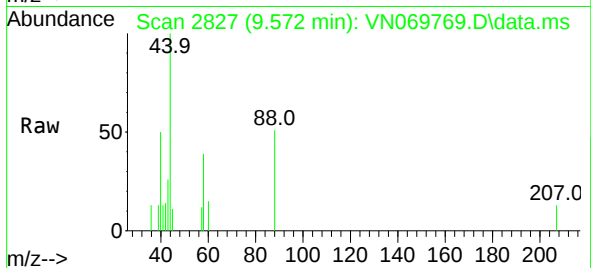
Acq: 4 Dec 2021 16:47

Instrument :

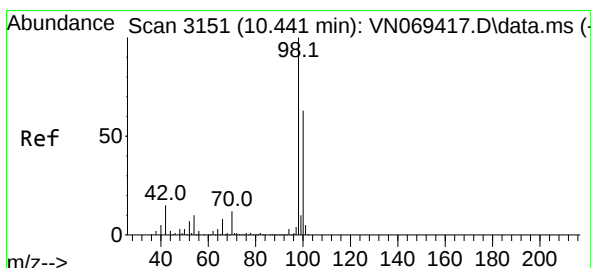
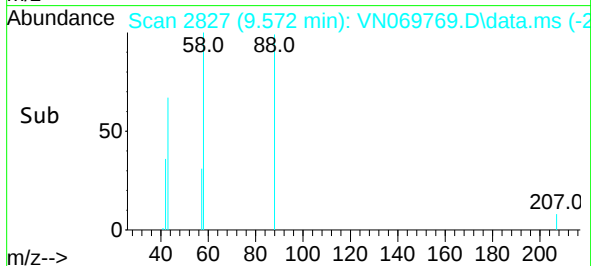
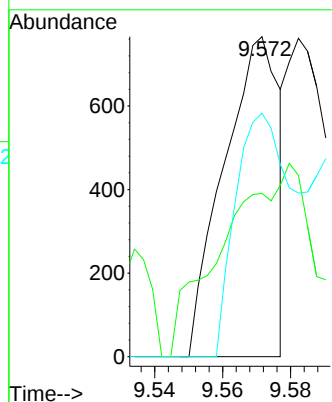
MSVOA_N

ClientSampleId :

DUP06-20211130



Tgt Ion:	88	Resp:	860
Ion	Ratio	Lower	Upper
88	100		
43	94.9	23.4	35.2#
58	75.2	50.6	75.8



#50

Toluene-d8

Concen: 50.492 ug/l

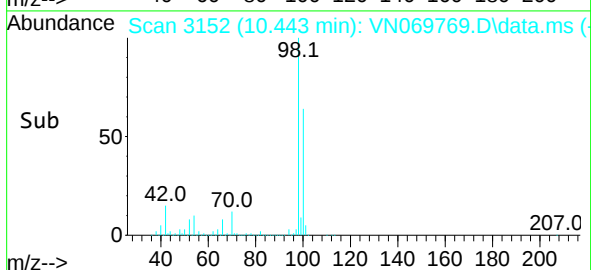
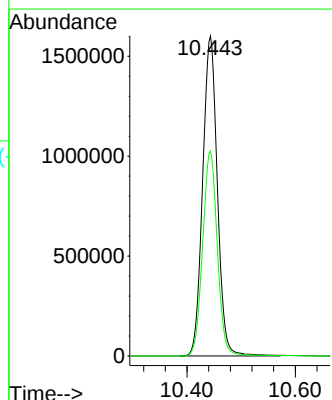
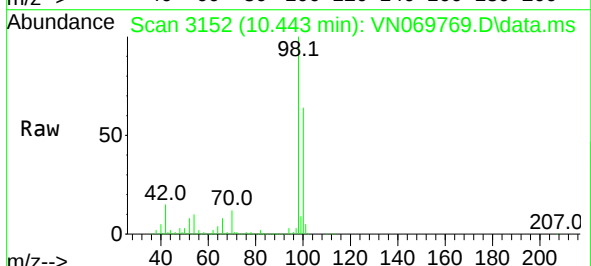
RT: 10.443 min Scan# 3152

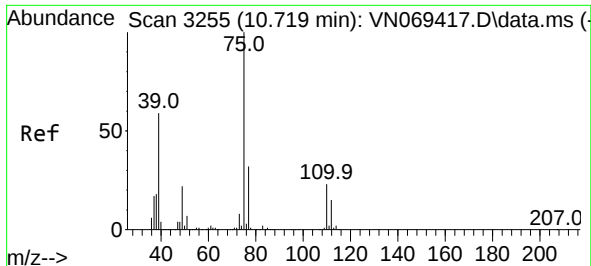
Delta R.T. 0.000 min

Lab File: VN069769.D

Acq: 4 Dec 2021 16:47

Tgt Ion:	98	Resp:	3016853
Ion	Ratio	Lower	Upper
98	100		
100	64.0	50.4	75.6

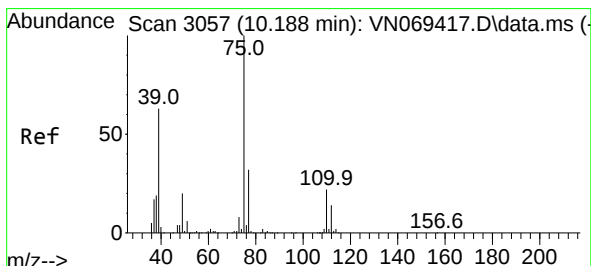
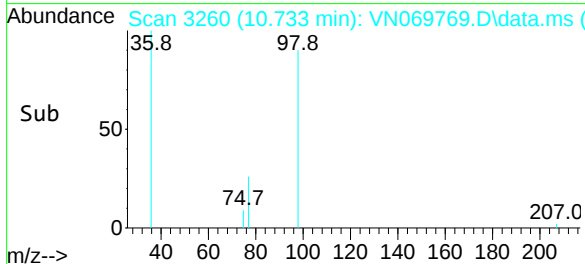
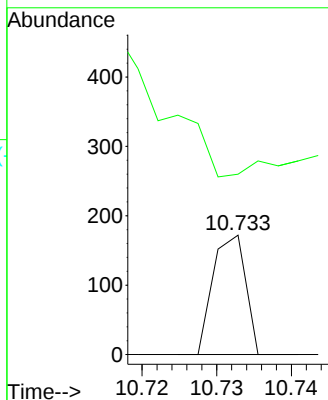
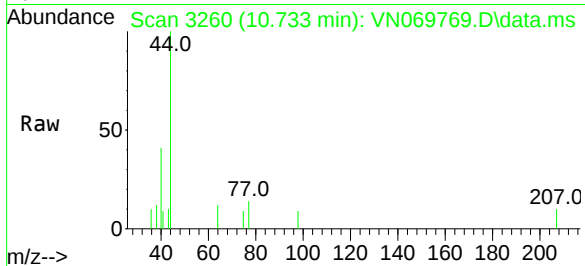




#53
t-1,3-Dichloropropene
Concen: 2.796 ug/l
RT: 10.733 min Scan# 31
Delta R.T. 0.014 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

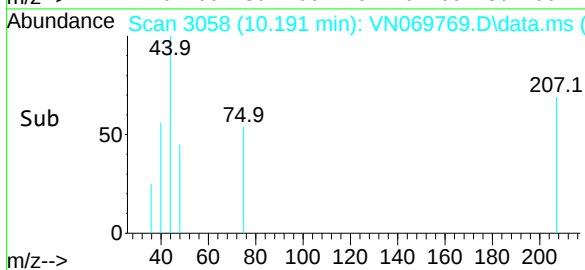
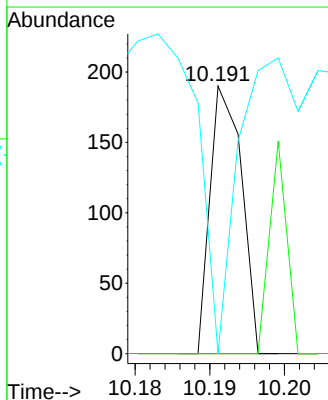
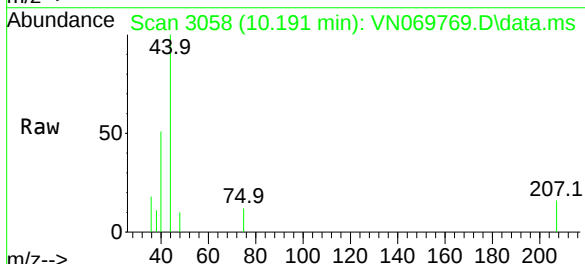
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

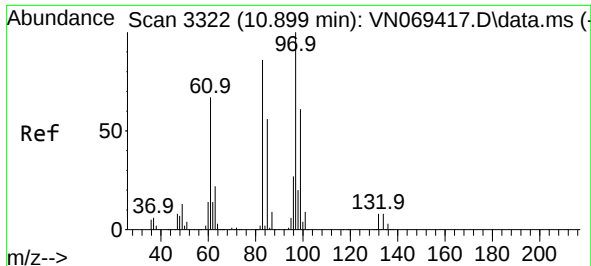
Tgt Ion: 75 Resp: 52
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.001 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. 0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 0.0 42.5 63.7#

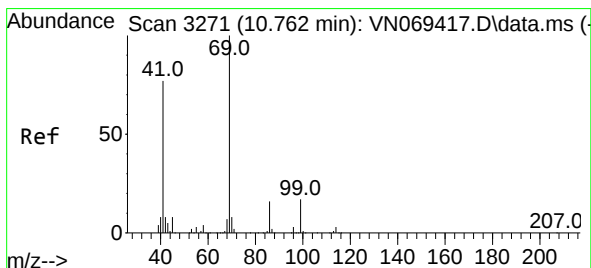
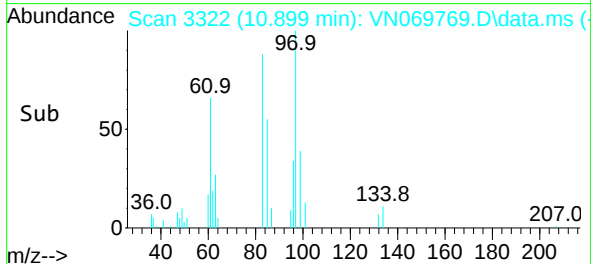
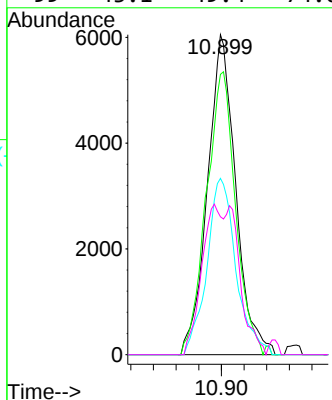
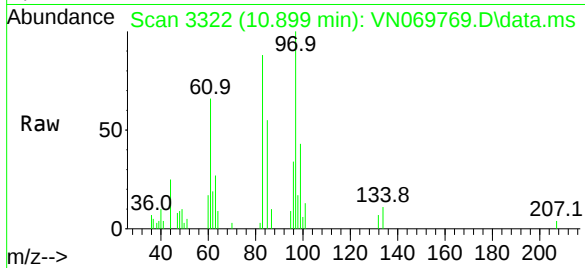




#55
1,1,2-Trichloroethane
Concen: 0.614 ug/l
RT: 10.899 min Scan# 3193
Delta R.T. 0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

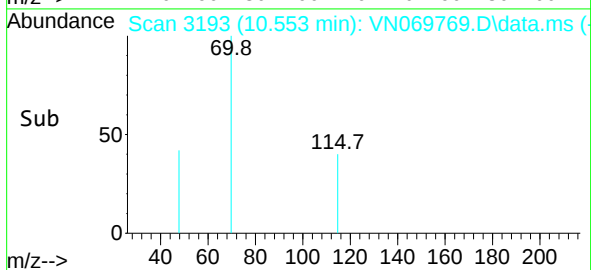
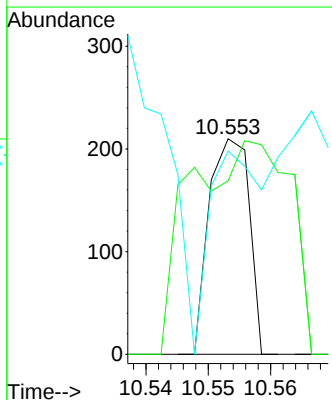
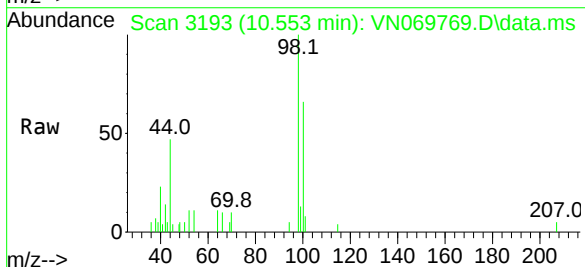
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

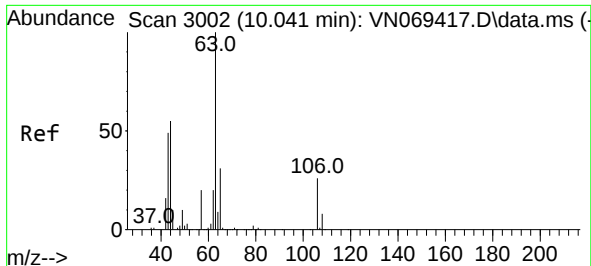
Tgt Ion: 97	Resp: 10457
Ion Ratio	Lower Upper
97 100	
83 87.6	67.8 101.6
85 55.1	45.4 68.2
99 43.1	49.4 74.0#



#56
Ethyl methacrylate
Concen: 2.282 ug/l
RT: 10.553 min Scan# 3193
Delta R.T. -0.209 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 69	Resp: 93
Ion Ratio	Lower Upper
69 100	
41 87.1	51.4 77.0#
39 122.6	34.6 52.0#

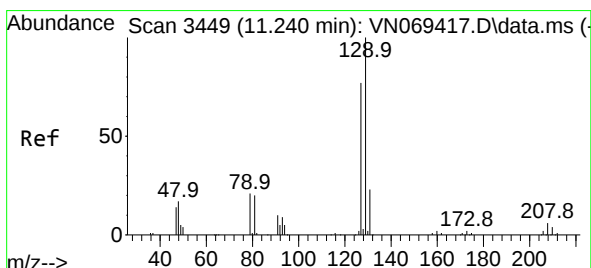
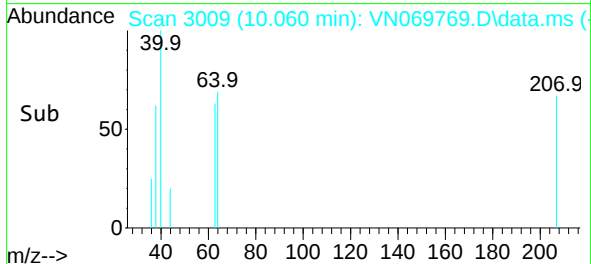
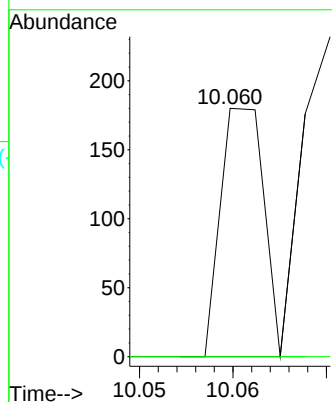
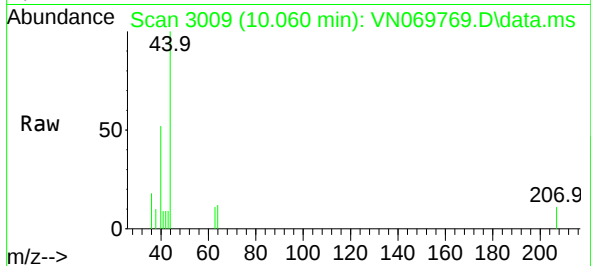




#58
2-Chloroethyl Vinyl ether
Concen: 18.395 ug/l
RT: 10.060 min Scan# 3009
Delta R.T. 0.017 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

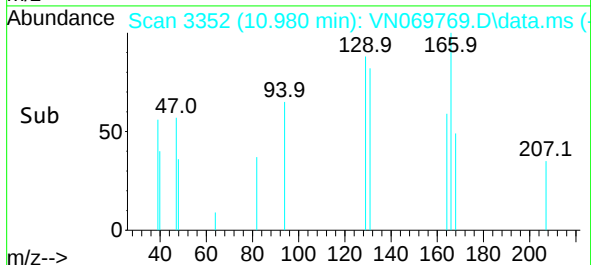
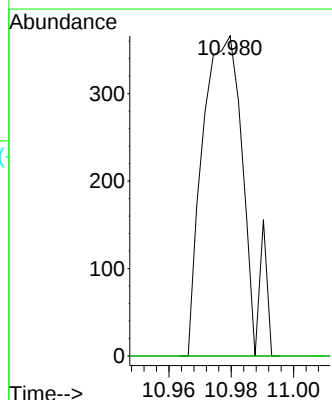
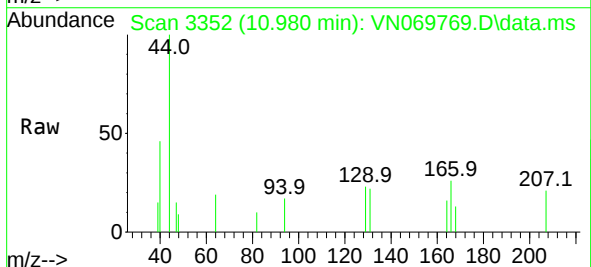
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

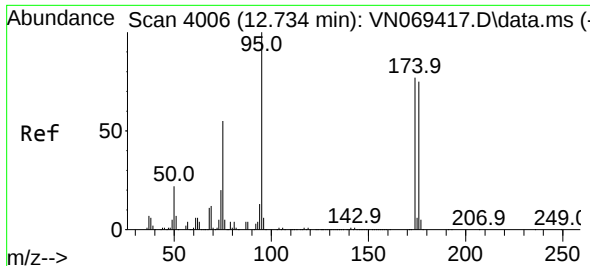
Tgt Ion: 63 Resp: 58
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#60
Dibromochloromethane
Concen: 2.394 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.260 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 129 Resp: 340
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

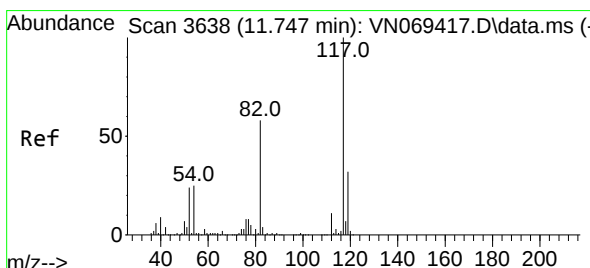
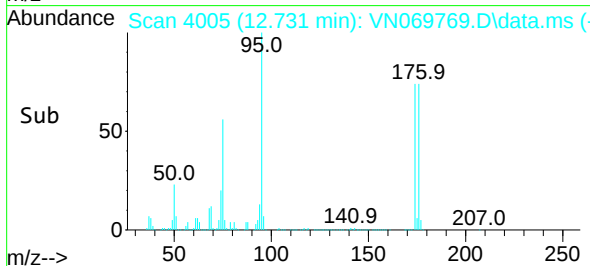
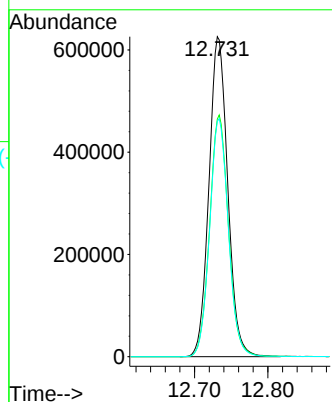
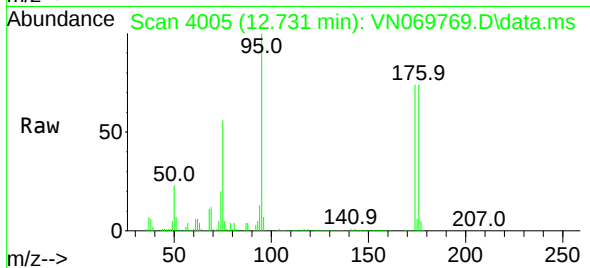




#62
4-Bromofluorobenzene
Concen: 51.507 ug/l
RT: 12.731 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

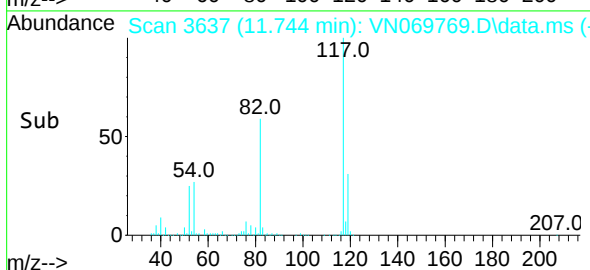
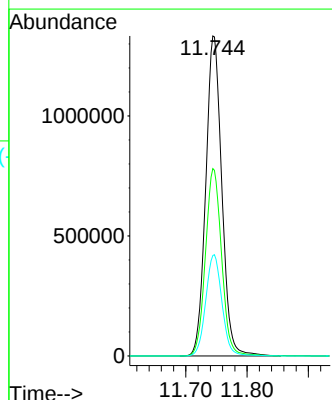
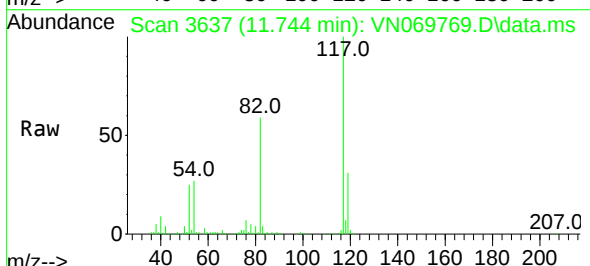
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

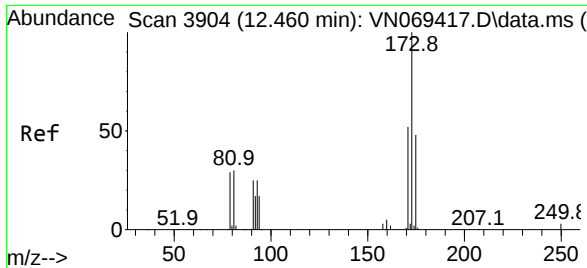
Tgt Ion: 95 Resp: 1114922
Ion Ratio Lower Upper
95 100
174 75.6 0.0 187.2
176 74.3 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 117 Resp: 2429434
Ion Ratio Lower Upper
117 100
82 58.6 42.4 63.6
119 31.4 25.4 38.2





#71

Bromoform

Concen: 2.904 ug/l

RT: 12.723 min Scan# 4002

Delta R.T. 0.263 min

Lab File: VN069769.D

Acq: 4 Dec 2021 16:47

Instrument :

MSVOA_N

ClientSampleId :

DUP06-20211130

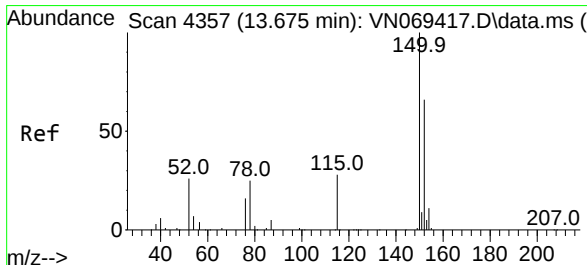
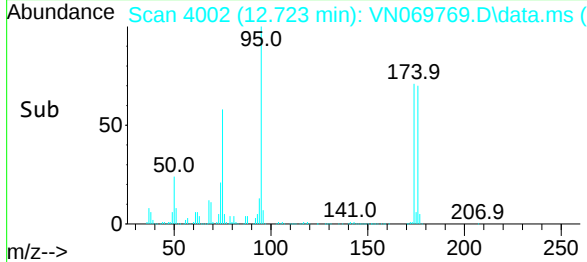
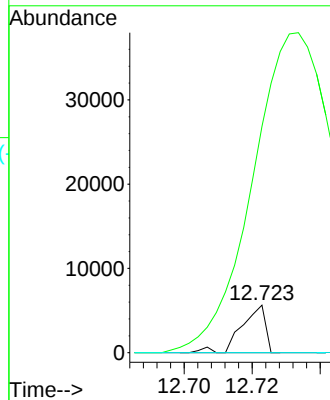
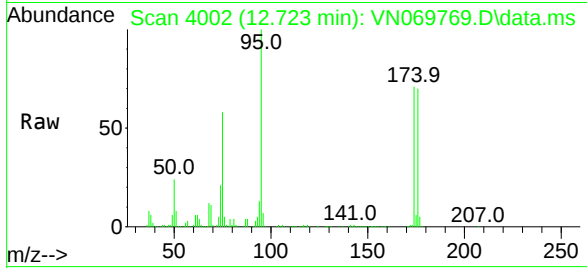
Tgt Ion:173 Resp: 2711

Ion Ratio Lower Upper

173 100

175 2293.1 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: VN069769.D

Acq: 4 Dec 2021 16:47

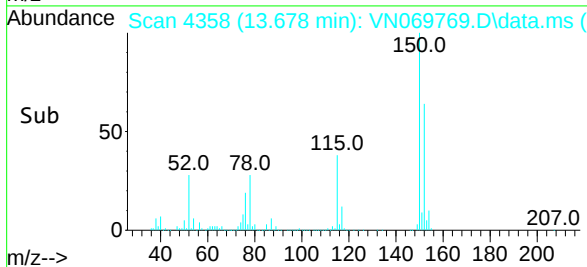
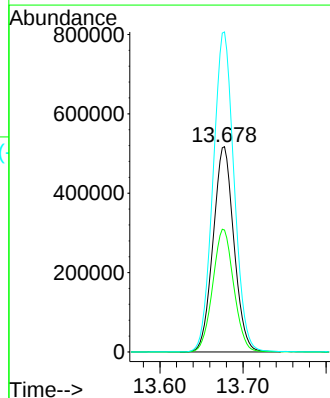
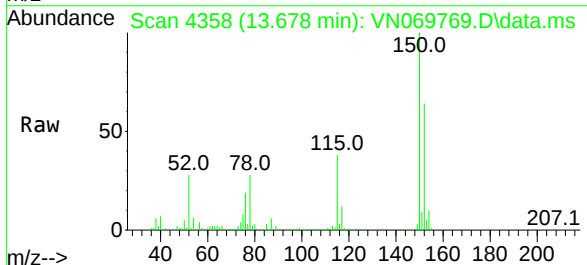
Tgt Ion:152 Resp: 900673

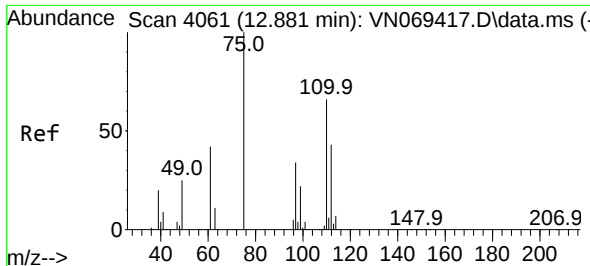
Ion Ratio Lower Upper

152 100

115 60.6 27.5 82.5

150 157.5 0.0 344.4

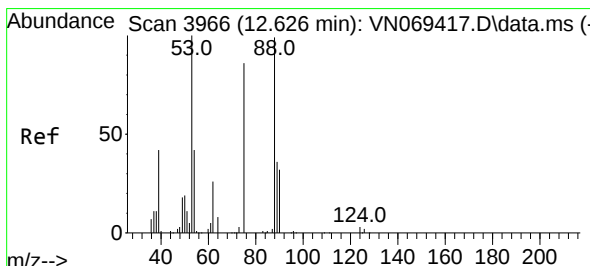
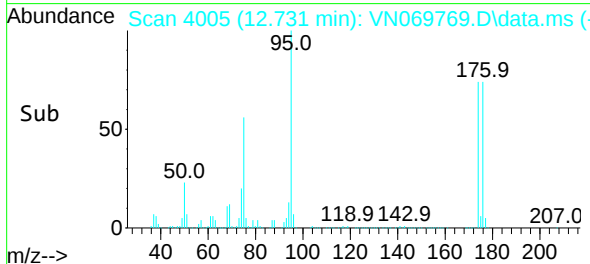
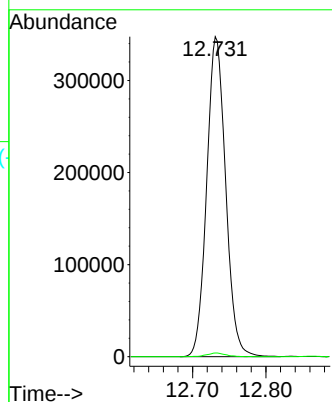
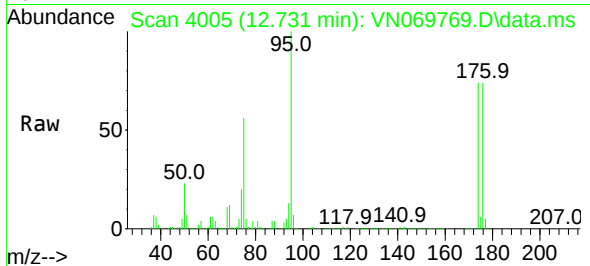




#76
1,2,3-Trichloropropane
Concen: 24.147 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

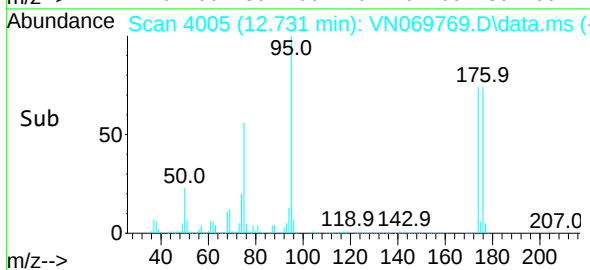
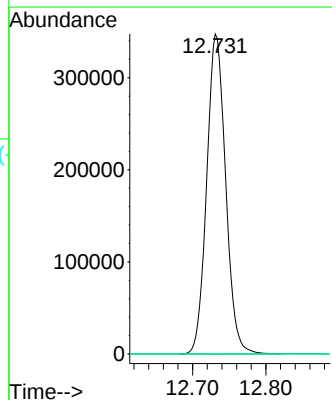
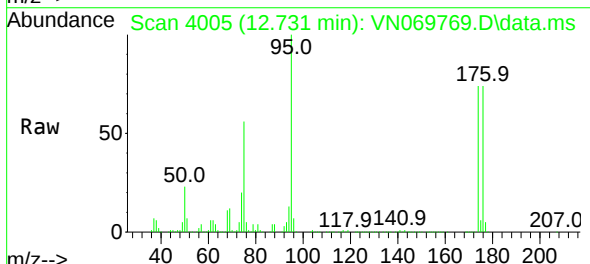
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

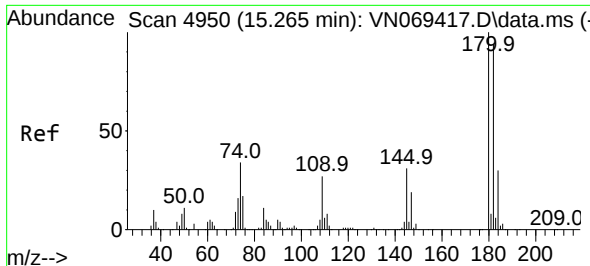
Tgt Ion: 75 Resp: 623694
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.672 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

Tgt Ion: 75 Resp: 623694
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

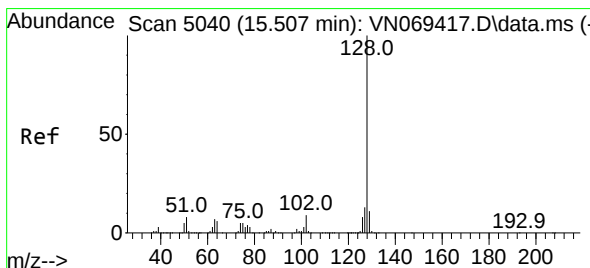
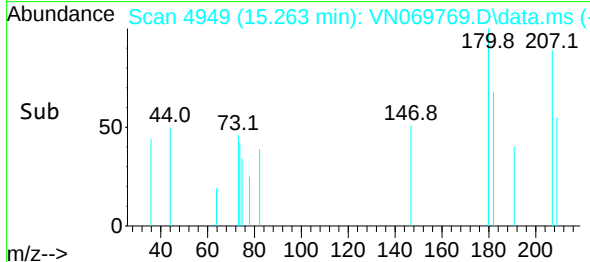
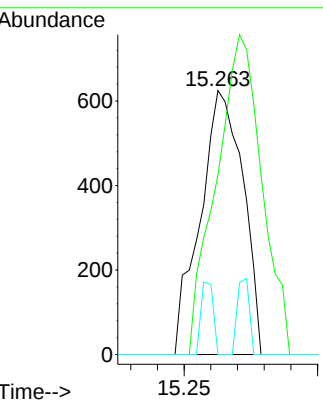
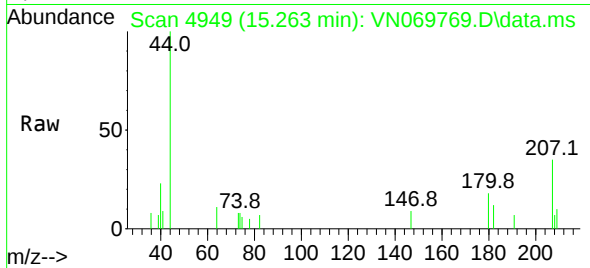




#93
1,2,4-Trichlorobenzene
Concen: 2.922 ug/l
RT: 15.263 min Scan# 4950
Delta R.T. -0.002 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

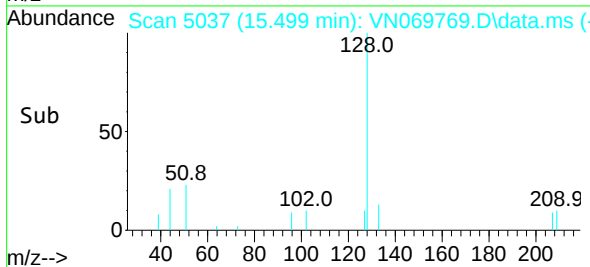
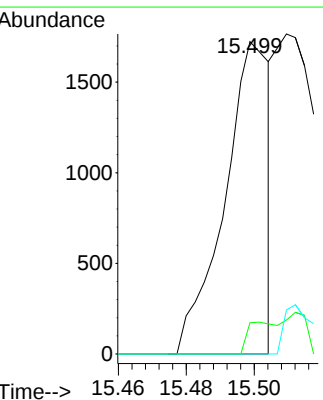
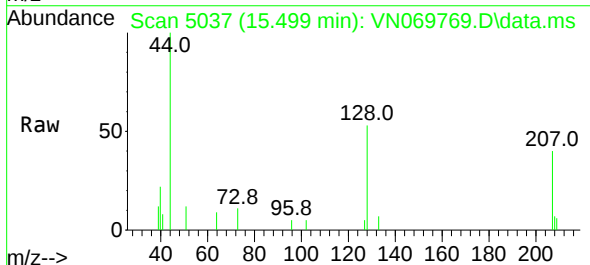
Instrument :
MSVOA_N
ClientSampleId :
DUP06-20211130

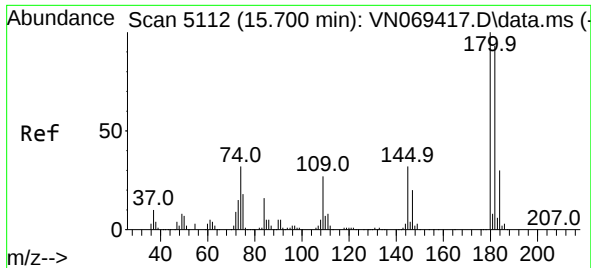
Tgt Ion:180 Resp: 696
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.9#
145 7.8 14.5 43.5#



#95
Naphthalene
Concen: 4.018 ug/l
RT: 15.499 min Scan# 5037
Delta R.T. -0.008 min
Lab File: VN069769.D
Acq: 4 Dec 2021 16:47

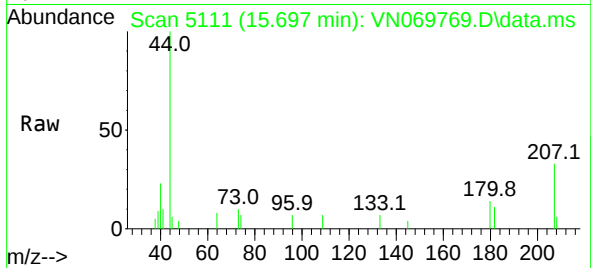
Tgt Ion:128 Resp: 1573
Ion Ratio Lower Upper
128 100
127 6.9 10.5 15.7#
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.470 ug/l
 RT: 15.697 min Scan# 51
 Delta R.T. -0.005 min
 Lab File: VN069769.D
 Acq: 4 Dec 2021 16:47

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP06-20211130



Tgt Ion:180 Resp: 516
 Ion Ratio Lower Upper
 180 100
 182 44.8 47.4 142.2#
 145 4.7 15.0 45.1#

