

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041422\
 Data File : VN071992.D
 Acq On : 14 Apr 2022 13:06
 Operator : JC\MD
 Sample : N2420-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 15 01:37:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

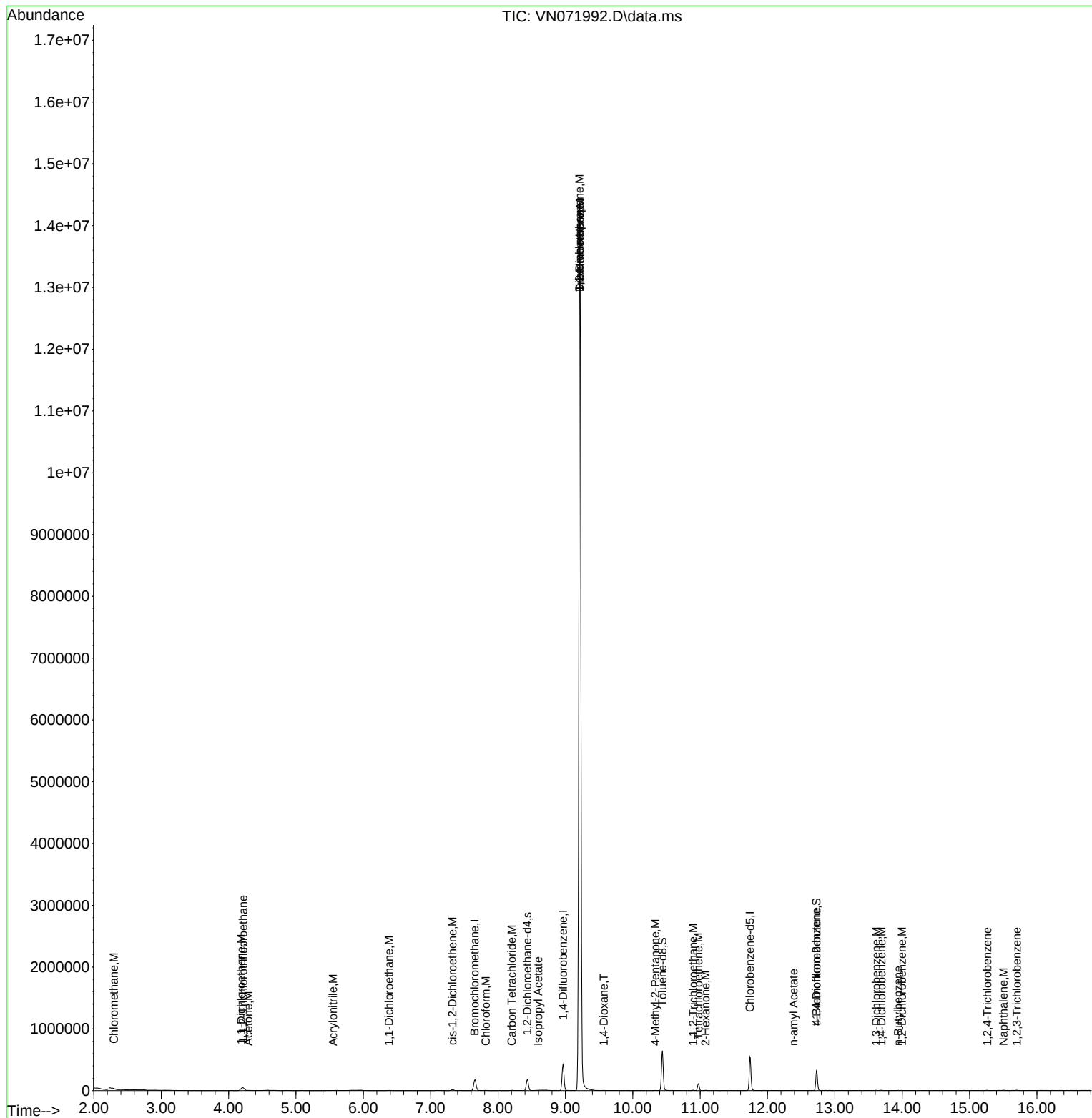
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.651	128	75516	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	402887	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	350199	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	151572	28.488	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.967%
60) 4-Bromofluorobenzene	12.727	95	122523	23.596	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.667%
63) Toluene-d8	10.439	98	470305	29.584	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	2341	0.423	ug/l #	83
9) 1,1,2-Trichlorotrifluo...	4.216	101	30664	6.912	ug/l #	62
10) 1,1-Dichloroethene	4.187	96	10186	2.328	ug/l #	81
14) Acrylonitrile	5.551	53	572	0.205	ug/l #	17
15) Acetone	4.293	58	899	1.119	ug/l #	39
21) 1,1-Dichloroethane	6.381	63	2505	0.279	ug/l #	84
22) cis-1,2-Dichloroethene	7.322	96	9752	1.715	ug/l #	64
25) Chloroform	7.816	83	4488	0.498	ug/l	93
33) Carbon Tetrachloride	8.204	117	3278	0.510	ug/l #	79
37) Trichloroethene	9.216	130	5760901	1101.966	ug/l	99
39) 1,2-Dichloropropane	9.210	63	16400	3.235	ug/l #	1
40) Dibromomethane	9.210	93	2182	0.636	ug/l #	1
44) Isopropyl Acetate	8.598	43	2914	0.258	ug/l #	50
45) 1,4-Dioxane	9.569	88	1833	16.093	ug/l #	37
47) n-amyl Acetate	12.386	43	2443	0.324	ug/l #	84
50) 1,1,2-Trichloroethane	10.898	97	2704	0.527	ug/l #	84
58) 4-Methyl-2-Pentanone	10.333	43	2324	0.350	ug/l #	64
59) 2-Hexanone	11.080	43	4652	0.958	ug/l	96
61) Tetrachloroethene	10.975	164	29273	6.868	ug/l	87
77) t-1,4-Dichloro-2-butene	12.727	75	56782	25.826	ug/l #	8
83) 1,3-Dichlorobenzene	13.616	146	1872	0.209	ug/l	86
84) 1,4-Dichlorobenzene	13.692	146	2133	0.250	ug/l	89
85) n-Butylbenzene	13.939	91	2970	0.226	ug/l	97
87) 1,2-Dichlorobenzene	13.998	146	1940	0.224	ug/l	91
89) 1,2,4-Trichlorobenzene	15.263	180	2149	0.538	ug/l #	71
91) Naphthalene	15.504	128	7107	7.338	ug/l #	86
92) 1,2,3-Trichlorobenzene	15.704	180	2288	0.584	ug/l	76

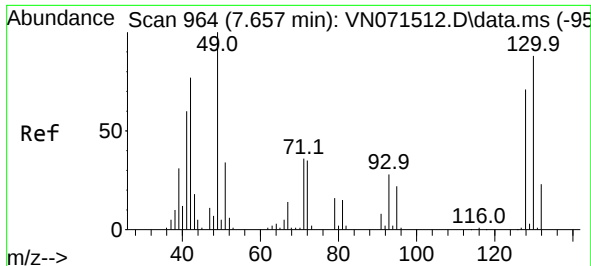
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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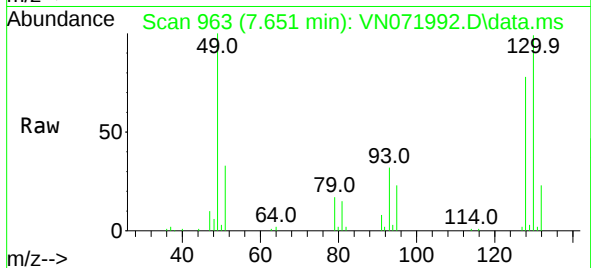
Quant Time: Apr 15 01:37:02 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 24 12:03:44 2022
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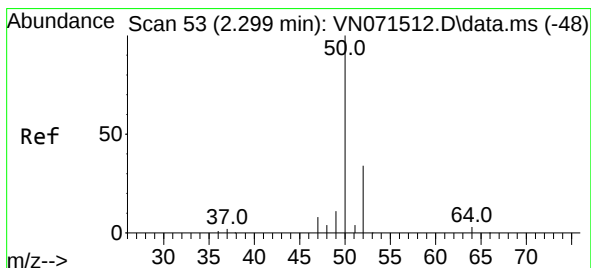
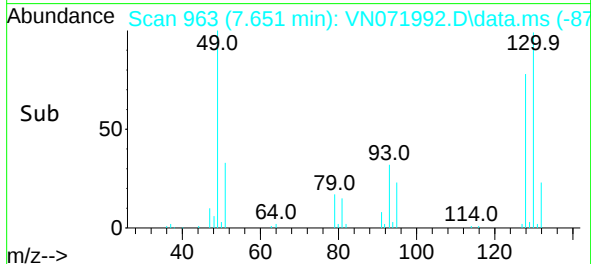
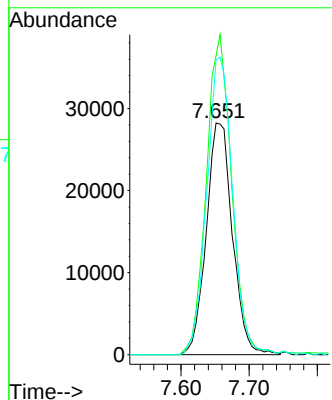


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. -0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Instrument :
MSVOA_N
ClientSampleId :

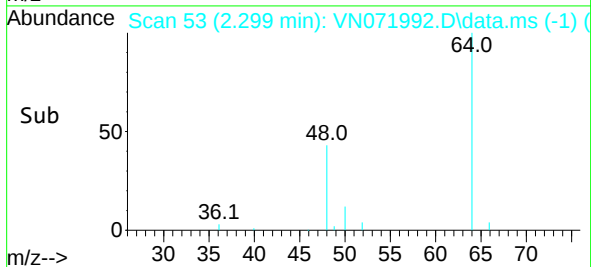
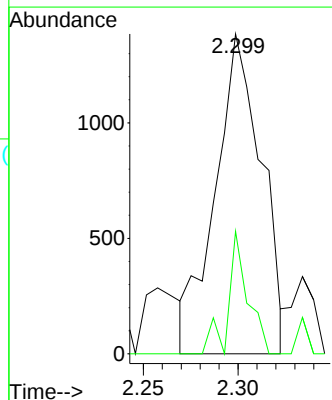
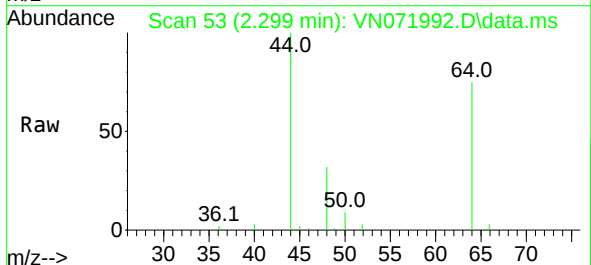


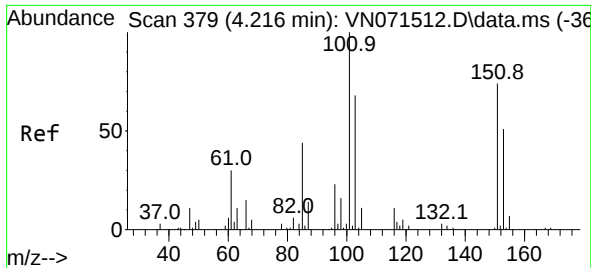
Tgt Ion:128 Resp: 75516
Ion Ratio Lower Upper
128 100
49 133.5 0.0 392.3
130 127.1 0.0 320.2



#3
Chloromethane
Concen: 0.423 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion: 50 Resp: 2341
Ion Ratio Lower Upper
50 100
52 44.6 27.8 41.6#

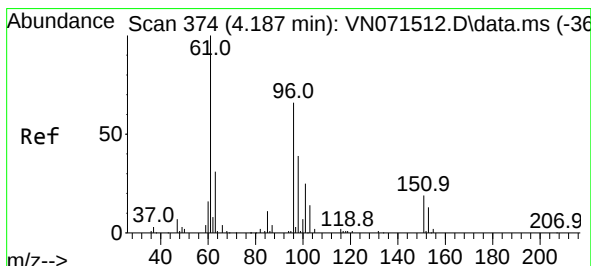
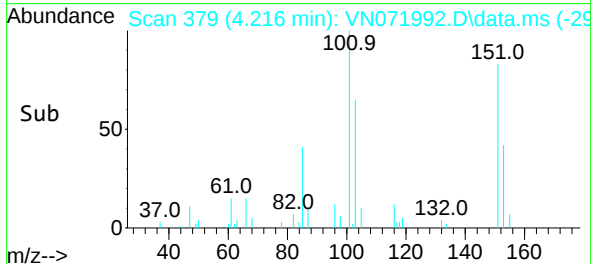
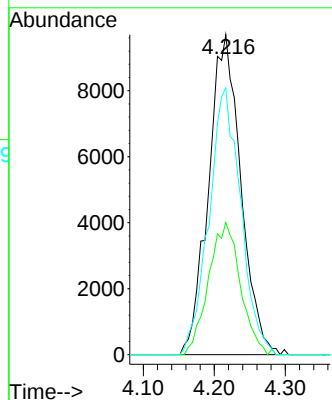
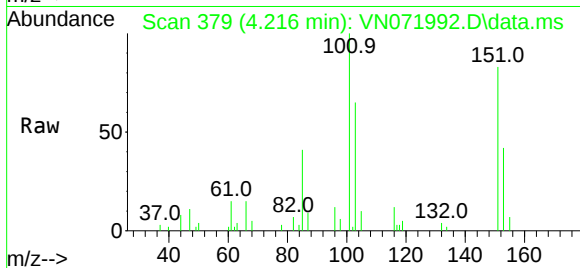




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 6.912 ug/l
 RT: 4.216 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VN071992.D
 Acq: 14 Apr 2022 13:06

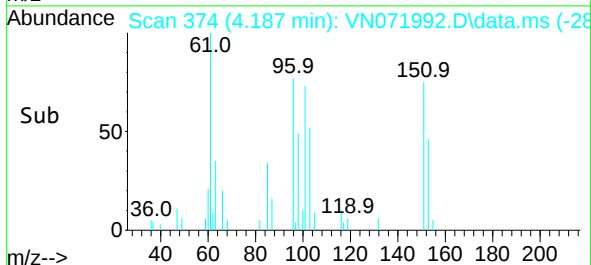
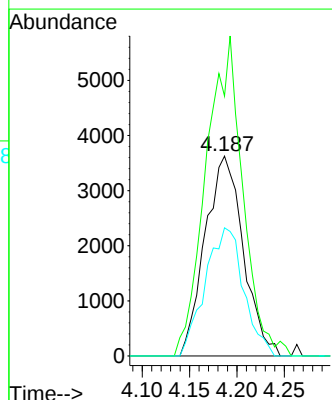
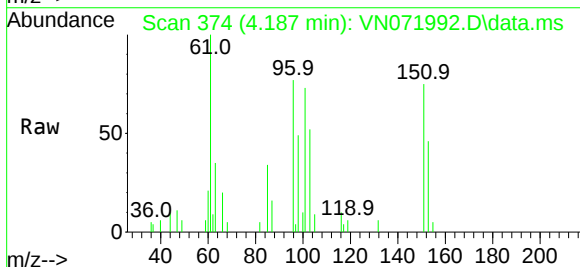
Instrument :
 MSVOA_N
 ClientSampleId :

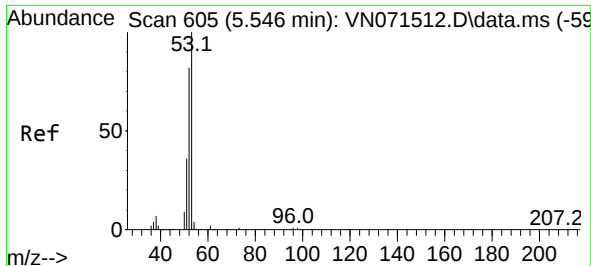
Tgt Ion:101 Resp: 30664
 Ion Ratio Lower Upper
 101 100
 85 40.6 0.0 94.0
 151 82.0 0.0 74.6#



#10
 1,1-Dichloroethene
 Concen: 2.328 ug/l
 RT: 4.187 min Scan# 374
 Delta R.T. -0.000 min
 Lab File: VN071992.D
 Acq: 14 Apr 2022 13:06

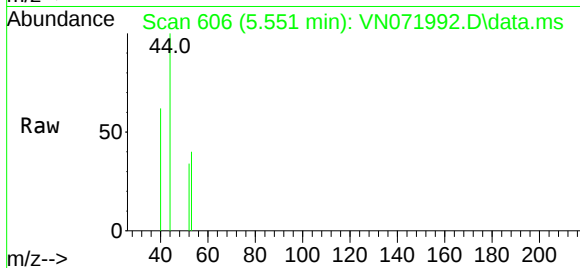
Tgt Ion: 96 Resp: 10186
 Ion Ratio Lower Upper
 96 100
 61 122.6 126.2 189.4#
 98 64.1 50.9 76.3



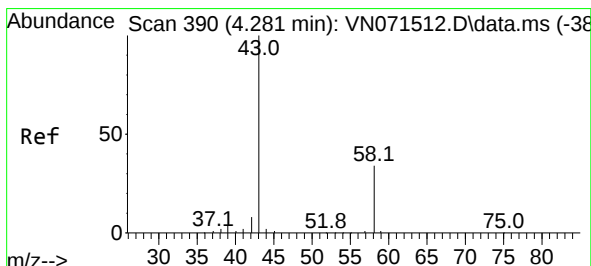
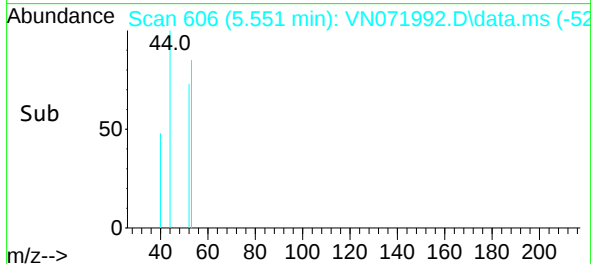
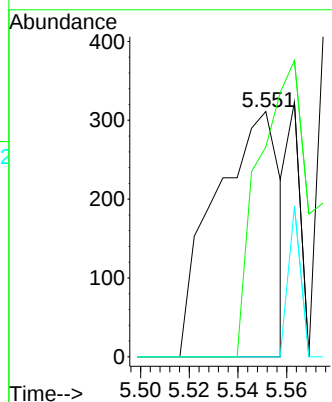


#14
Acrylonitrile
Concen: 0.205 ug/l
RT: 5.551 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Instrument :
MSVOA_N
ClientSampleId :

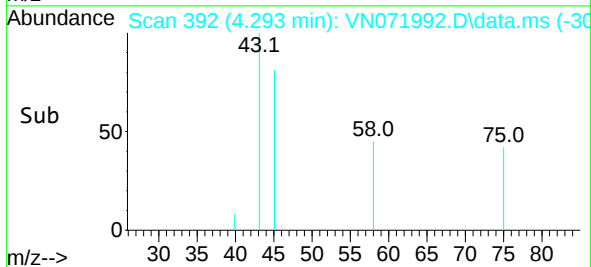
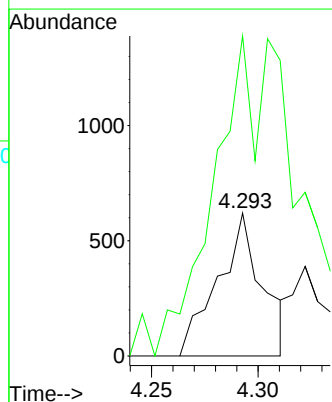
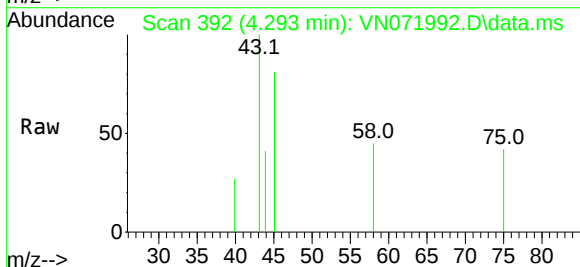


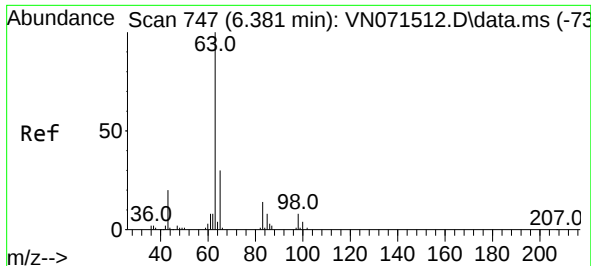
Tgt Ion: 53 Resp: 572
Ion Ratio Lower Upper
53 100
52 0.0 41.8 125.4#
51 0.0 19.0 57.0#



#15
Acetone
Concen: 1.119 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion: 58 Resp: 899
Ion Ratio Lower Upper
58 100
43 194.7 256.6 384.8#





#21

1,1-Dichloroethane

Concen: 0.279 ug/l

RT: 6.381 min Scan# 747

Delta R.T. -0.000 min

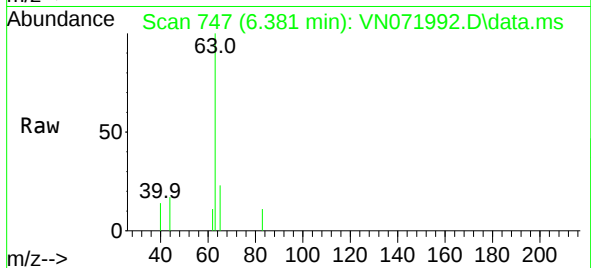
Lab File: VN071992.D

Acq: 14 Apr 2022 13:06

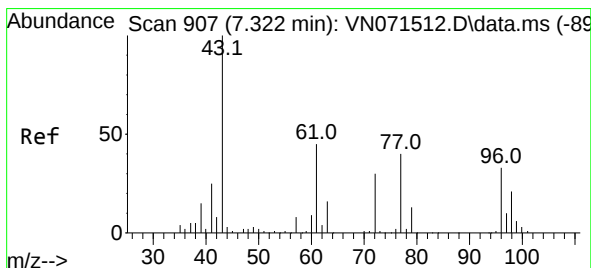
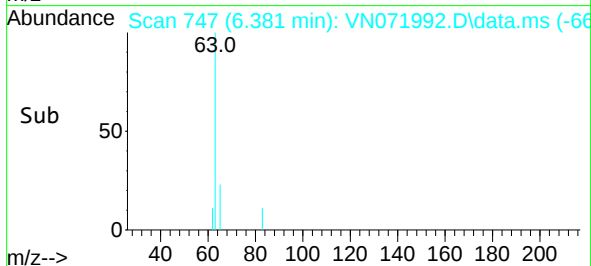
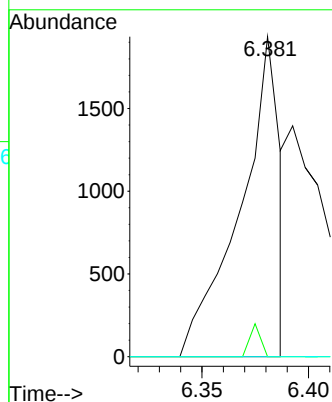
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	63	Resp:	2505
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.2	9.6#
100	0.0	2.1	6.2#



#22

cis-1,2-Dichloroethene

Concen: 1.715 ug/l

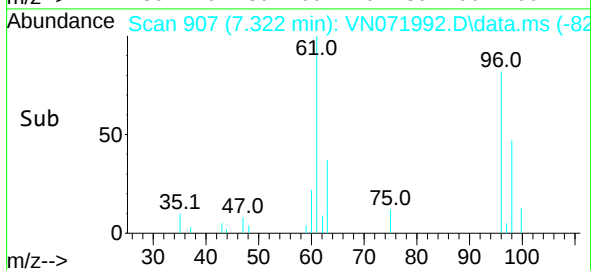
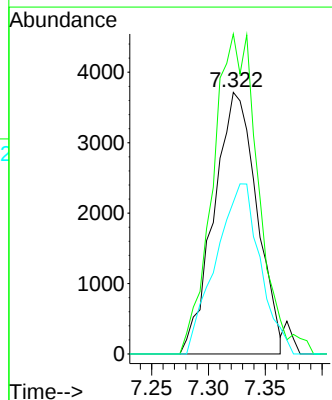
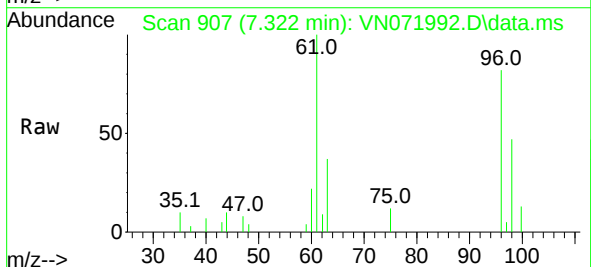
RT: 7.322 min Scan# 907

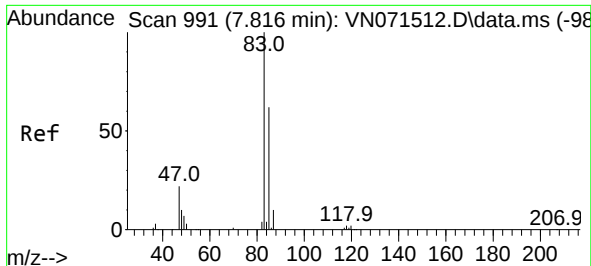
Delta R.T. -0.000 min

Lab File: VN071992.D

Acq: 14 Apr 2022 13:06

Tgt Ion:	96	Resp:	9752
Ion	Ratio	Lower	Upper
96	100		
61	81.6	115.7	173.5#
98	67.1	51.6	77.4

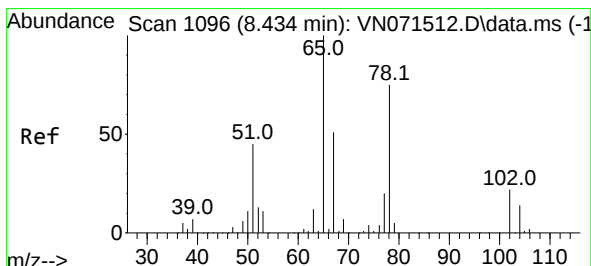
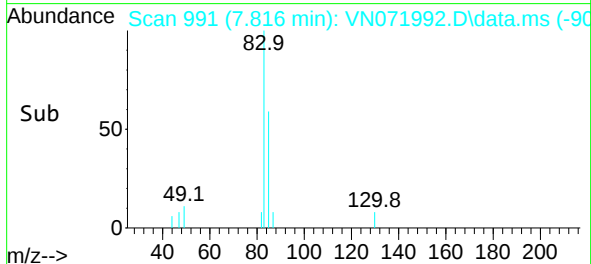
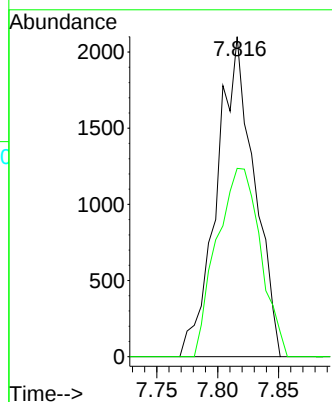
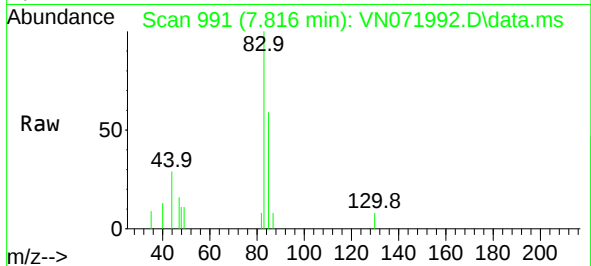




#25
Chloroform
Concen: 0.498 ug/l
RT: 7.816 min Scan# 991
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

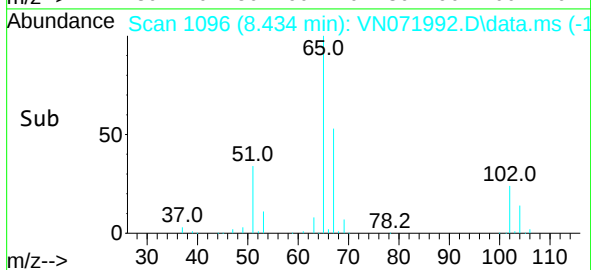
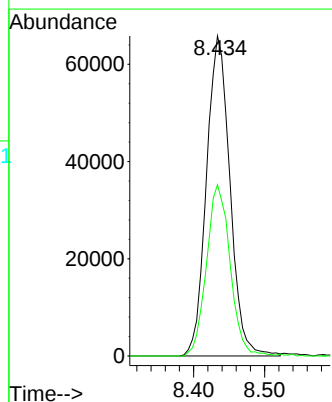
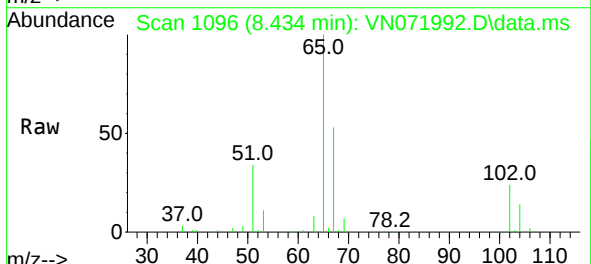
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MSVOA_N
ClientSampleId :

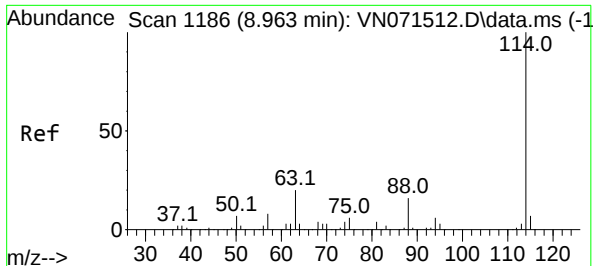
Tgt Ion: 83 Resp: 4488
Ion Ratio Lower Upper
83 100
85 58.9 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 28.488 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion: 65 Resp: 151572
Ion Ratio Lower Upper
65 100
67 53.6 40.2 60.2

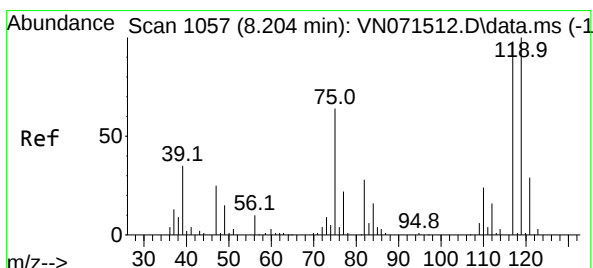
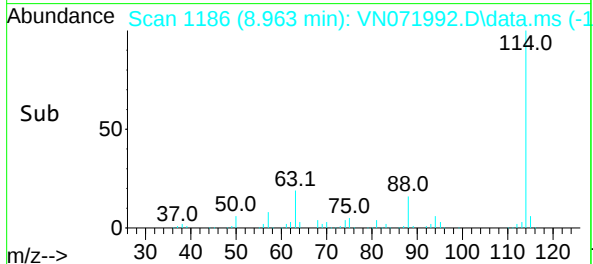
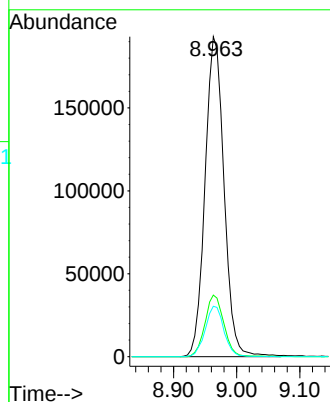
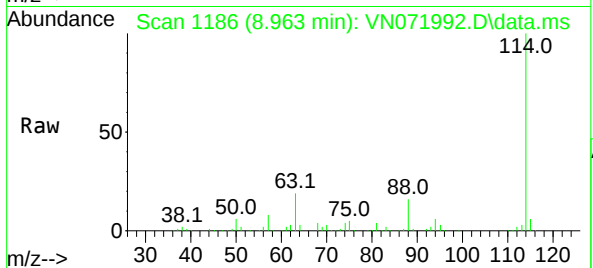




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

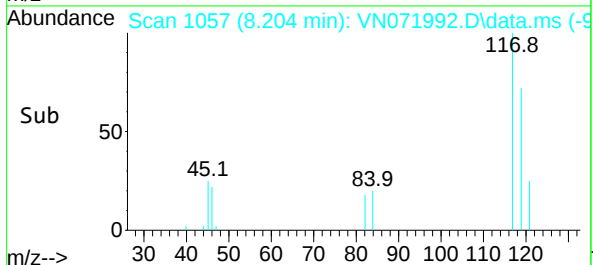
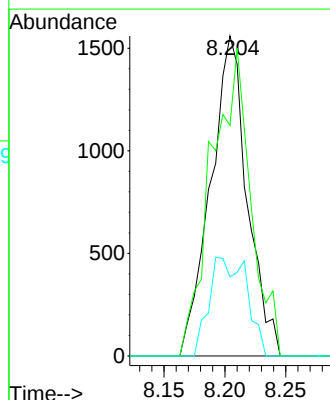
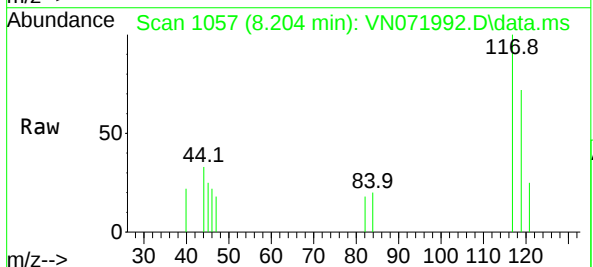
Instrument :
MSVOA_N
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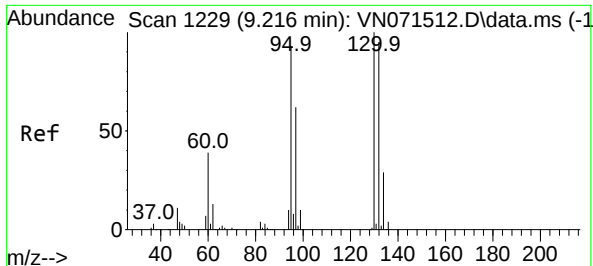
Tgt Ion:114 Resp: 402887
Ion Ratio Lower Upper
114 100
63 19.0 15.8 23.6
88 15.5 11.6 17.4



#33
Carbon Tetrachloride
Concen: 0.510 ug/l
RT: 8.204 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion:117 Resp: 3278
Ion Ratio Lower Upper
117 100
119 72.1 77.5 116.3#
121 24.7 23.5 35.3

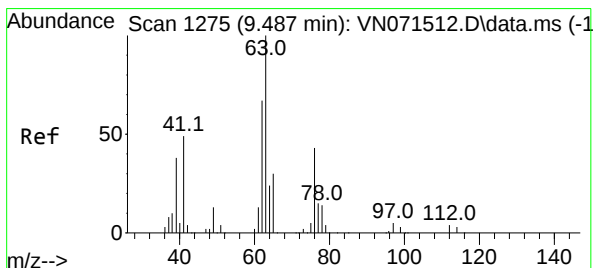
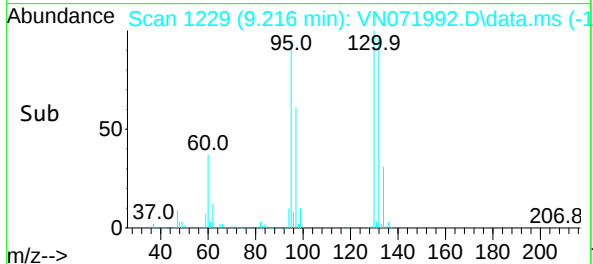
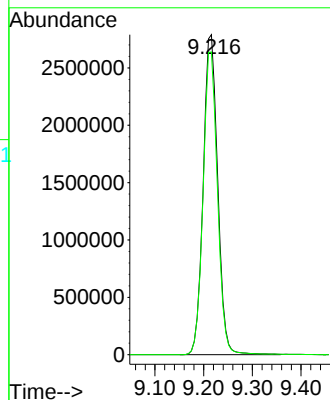
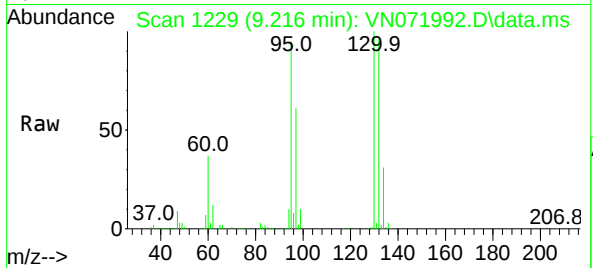




#37
Trichloroethene
Concen: 1101.966 ug/l
RT: 9.216 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

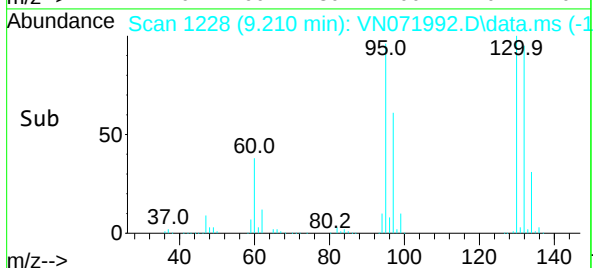
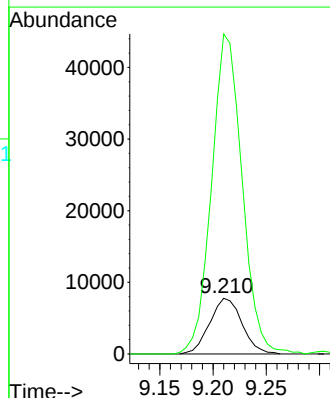
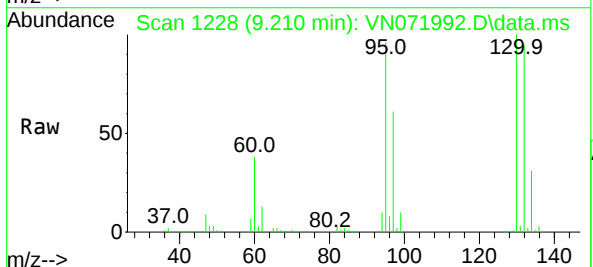
Instrument :
MSVOA_N
ClientSampleId :

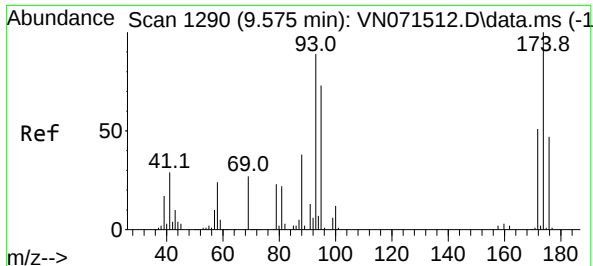
Tgt Ion:130 Resp: 5760901
Ion Ratio Lower Upper
130 100
95 94.6 76.6 115.0



#39
1,2-Dichloropropane
Concen: 3.235 ug/l
RT: 9.210 min Scan# 1228
Delta R.T. -0.277 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion: 63 Resp: 16400
Ion Ratio Lower Upper
63 100
65 572.4 24.2 36.4#





#40

Dibromomethane

Concen: 0.636 ug/l

RT: 9.210 min Scan# 1124

Delta R.T. -0.365 min

Lab File: VN071992.D

Acq: 14 Apr 2022 13:06

Instrument :

MSVOA_N

ClientSampleId :

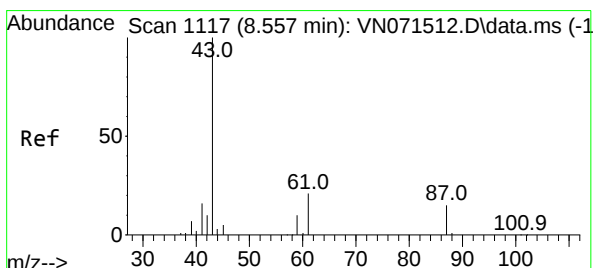
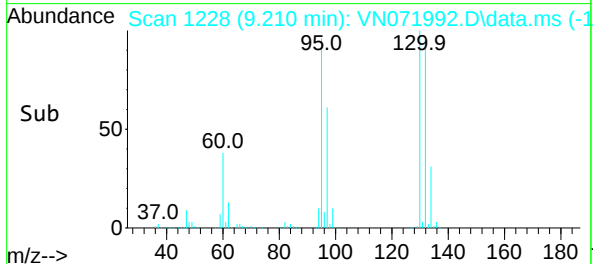
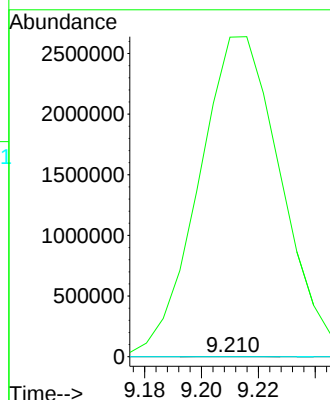
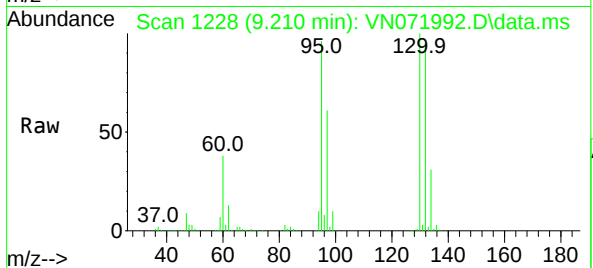
Tgt Ion: 93 Resp: 2182

Ion Ratio Lower Upper

93 100

95 248253.0 0.0 168.8#

174 0.0 0.0 173.6



#44

Isopropyl Acetate

Concen: 0.258 ug/l

RT: 8.598 min Scan# 1124

Delta R.T. 0.041 min

Lab File: VN071992.D

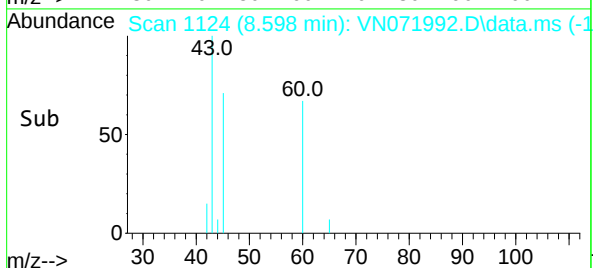
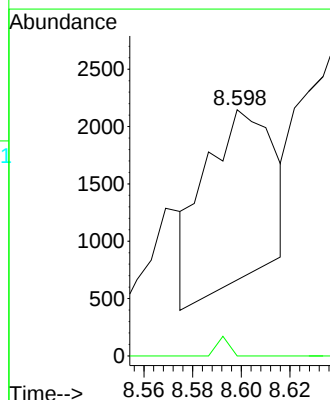
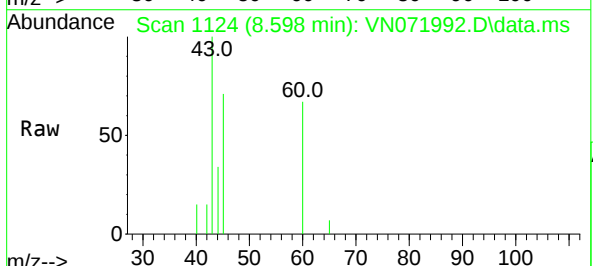
Acq: 14 Apr 2022 13:06

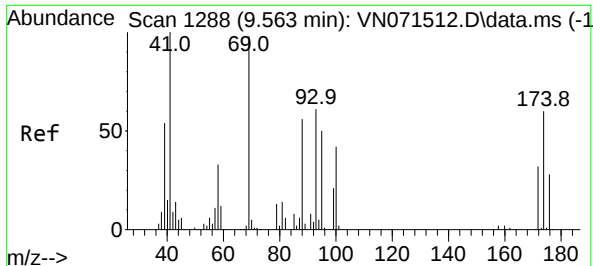
Tgt Ion: 43 Resp: 2914

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

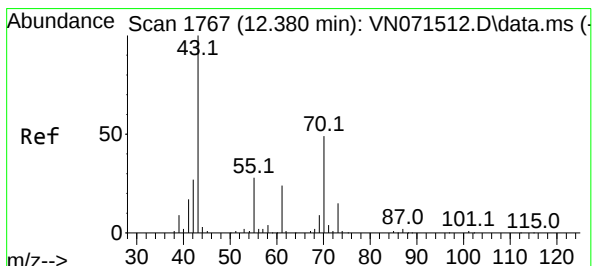
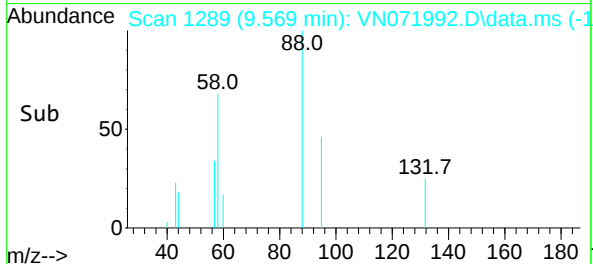
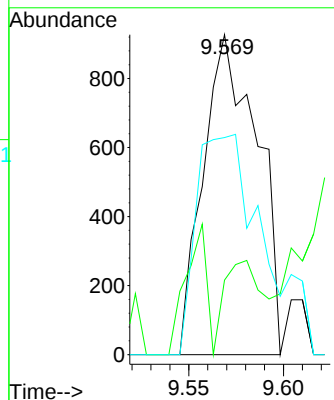
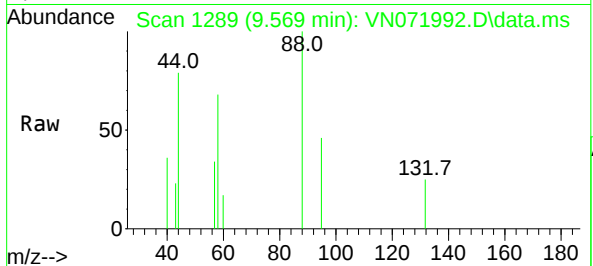




#45
1,4-Dioxane
Concen: 16.093 ug/l
RT: 9.569 min Scan# 1288
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

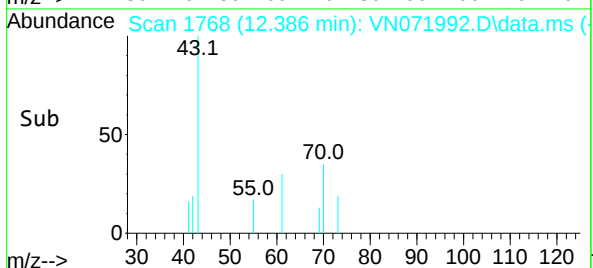
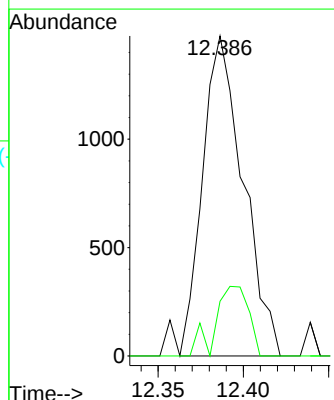
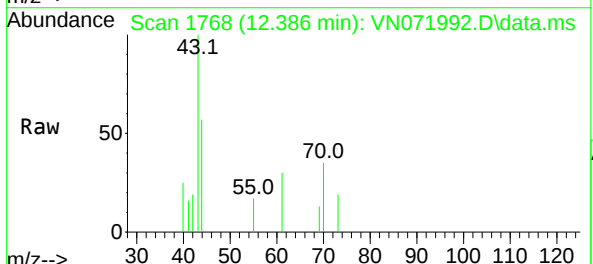
Instrument :
MSVOA_N
ClientSampleId :

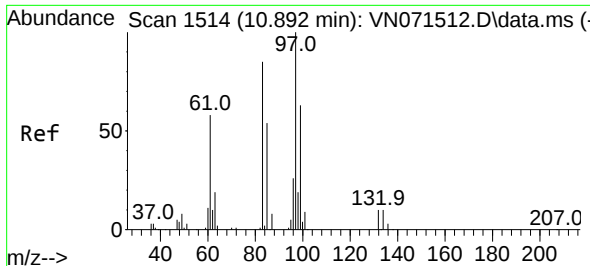
Tgt Ion: 88 Resp: 1833
Ion Ratio Lower Upper
88 100
43 15.8 25.0 37.6#
58 0.0 49.4 74.2#



#47
n-amy1 Acetate
Concen: 0.324 ug/l
RT: 12.386 min Scan# 1768
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

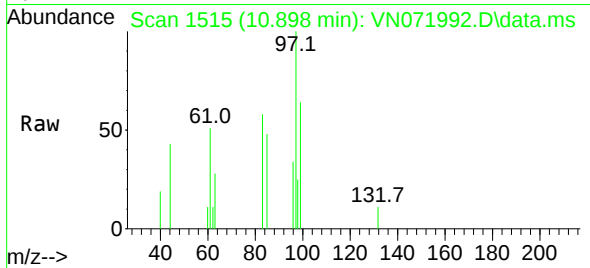
Tgt Ion: 43 Resp: 2443
Ion Ratio Lower Upper
43 100
55 15.7 19.0 28.6#



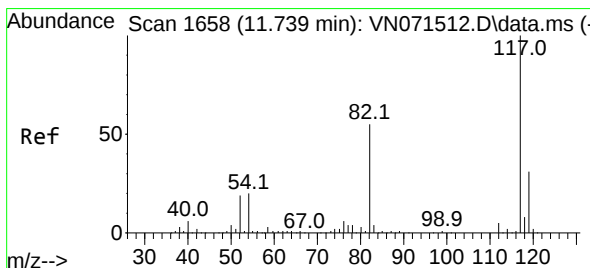
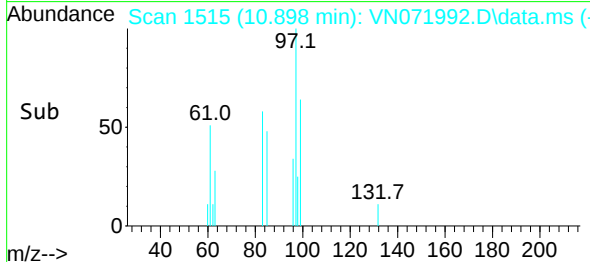
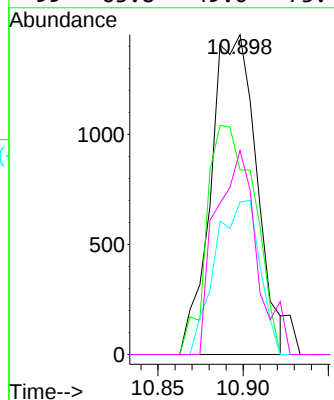


#50
1,1,2-Trichloroethane
Concen: 0.527 ug/l
RT: 10.898 min Scan# 1515
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Instrument :
MSVOA_N
ClientSampleId :

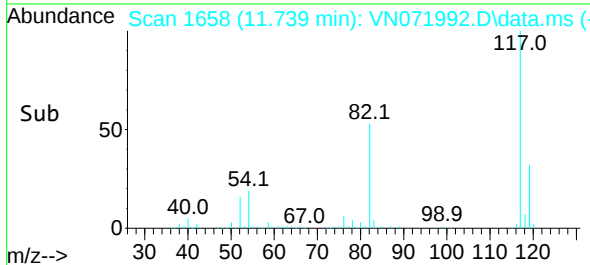
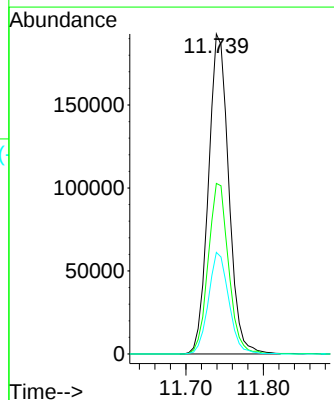
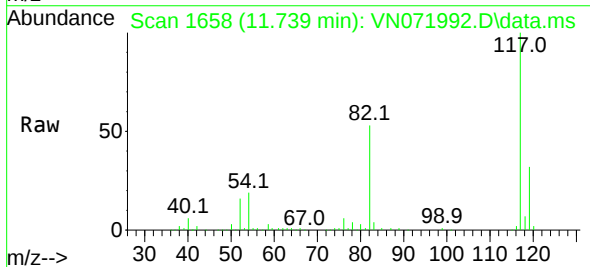


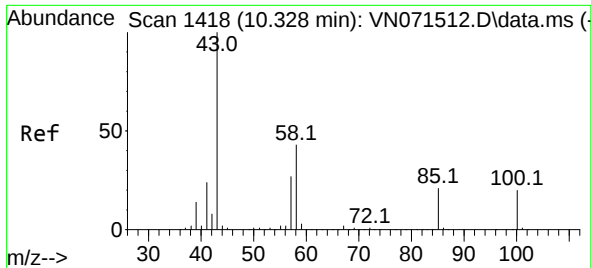
Tgt Ion: 97	Resp: 2704
Ion Ratio	Lower Upper
97 100	
83 57.7	67.2 100.8#
85 47.7	43.0 64.4
99 63.8	49.0 73.4



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

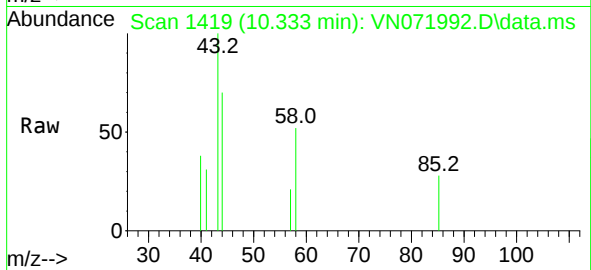
Tgt Ion:117	Resp:	350199	
Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.6	65.4
119	31.8	25.8	38.6



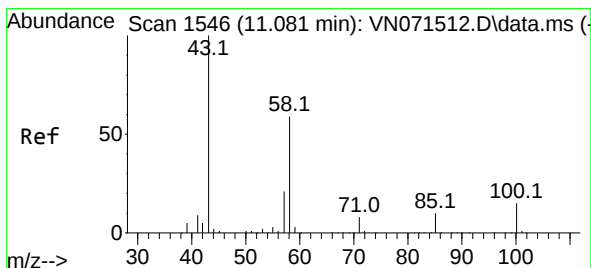
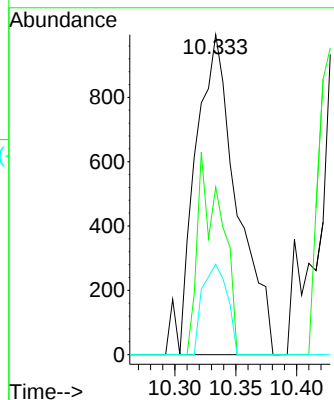
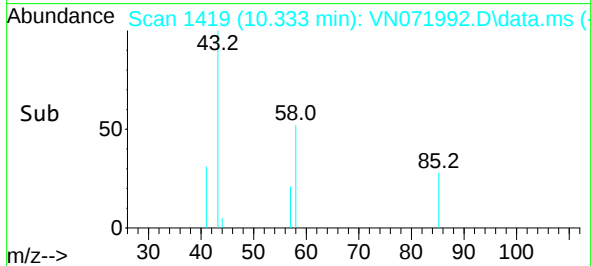


#58
4-Methyl-2-Pentanone
Concen: 0.350 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

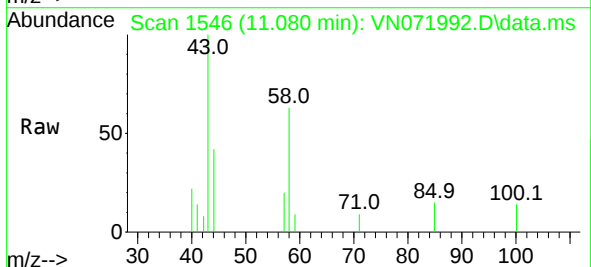
Instrument :
MSVOA_N
ClientSampleId :



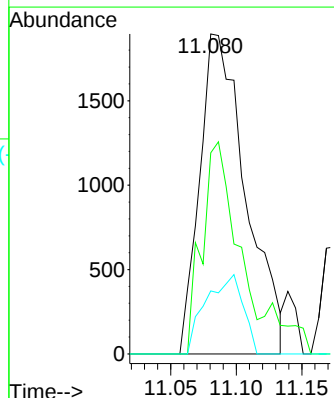
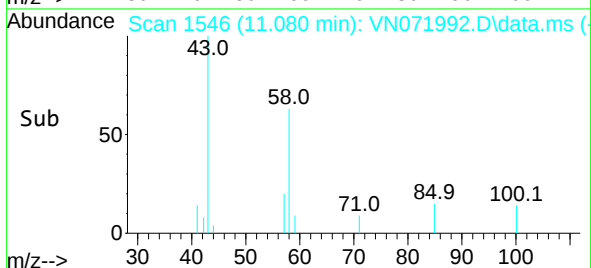
Tgt Ion: 43 Resp: 2324
Ion Ratio Lower Upper
43 100
58 17.9 30.0 45.0#
85 0.0 15.0 22.6#

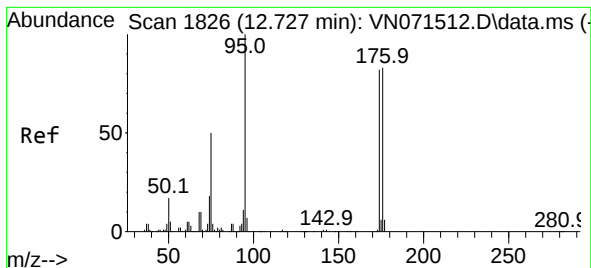


#59
2-Hexanone
Concen: 0.958 ug/l
RT: 11.080 min Scan# 1546
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06



Tgt Ion: 43 Resp: 4652
Ion Ratio Lower Upper
43 100
58 49.3 42.2 63.2
57 19.8 15.0 22.4

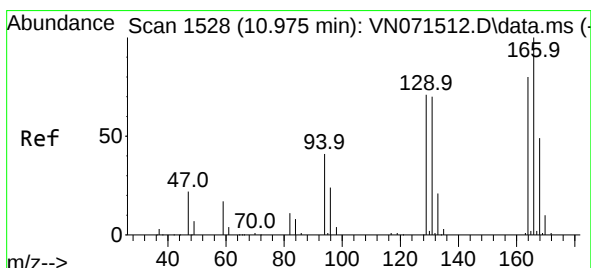
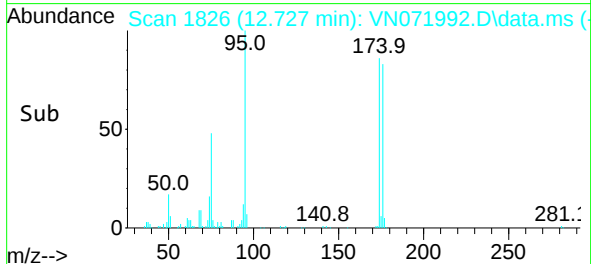
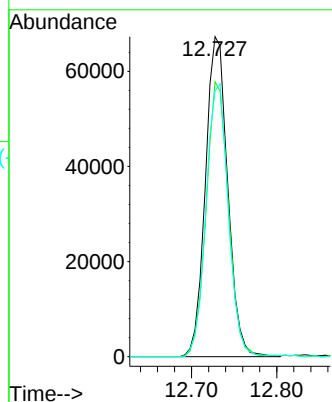
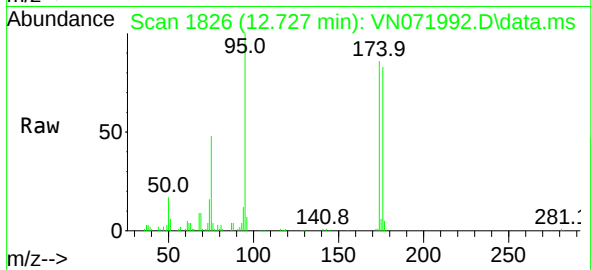




#60
4-Bromofluorobenzene
Concen: 23.596 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

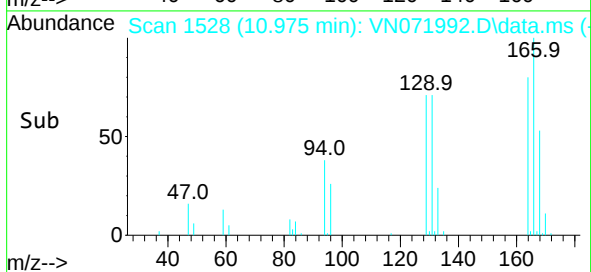
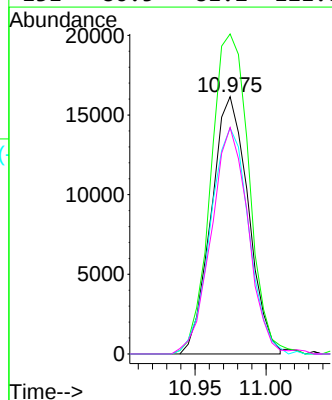
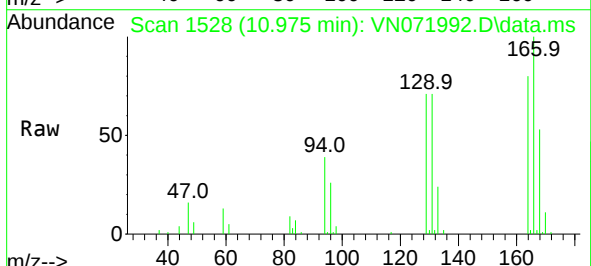
Instrument :
MSVOA_N
ClientSampleId :

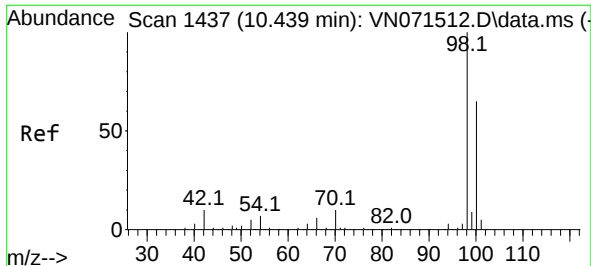
Tgt Ion: 95 Resp: 122523
Ion Ratio Lower Upper
95 100
174 85.2 62.9 94.3
176 84.9 61.0 91.4



#61
Tetrachloroethene
Concen: 6.868 ug/l
RT: 10.975 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion:164 Resp: 29273
Ion Ratio Lower Upper
164 100
166 123.0 105.8 158.8
129 86.5 82.5 123.7
131 86.5 81.2 121.8

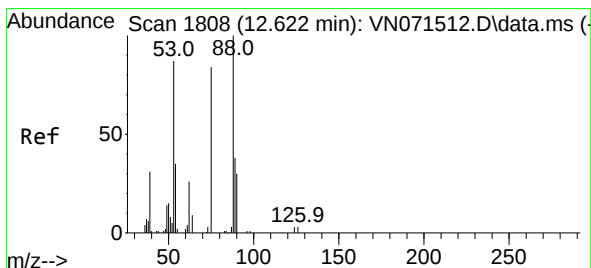
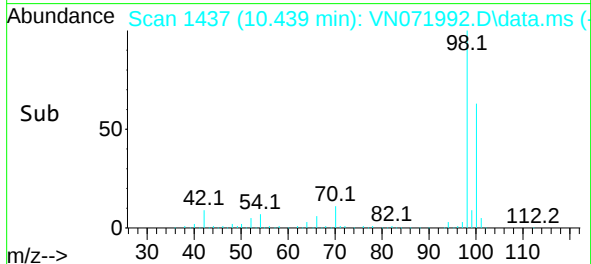
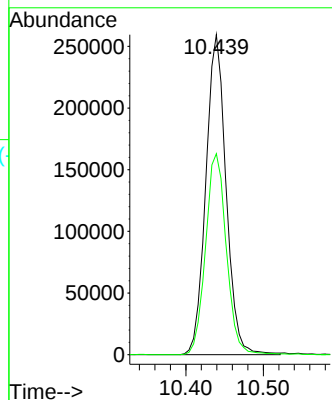
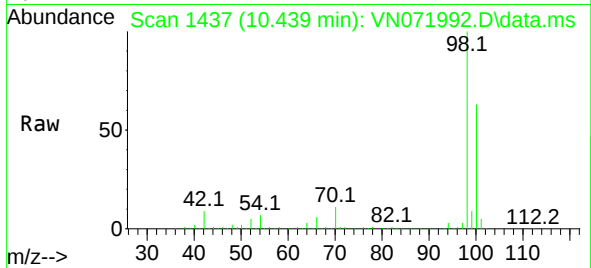




#63
Toluene-d8
Concen: 29.584 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

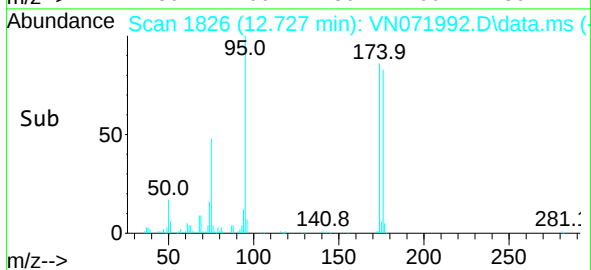
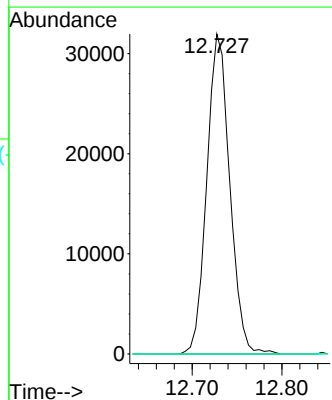
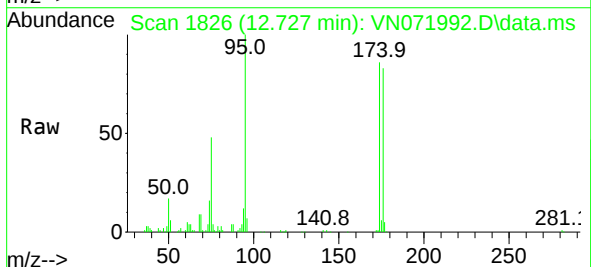
Instrument :
MSVOA_N
ClientSampleId :

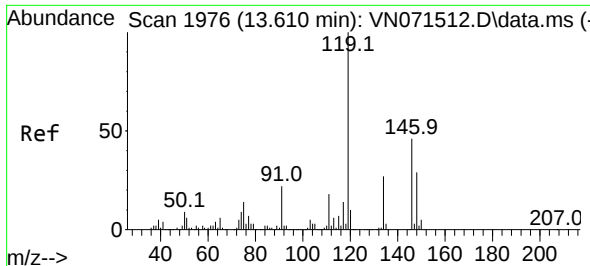
Tgt Ion: 98 Resp: 470305
Ion Ratio Lower Upper
98 100
100 64.6 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 25.826 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

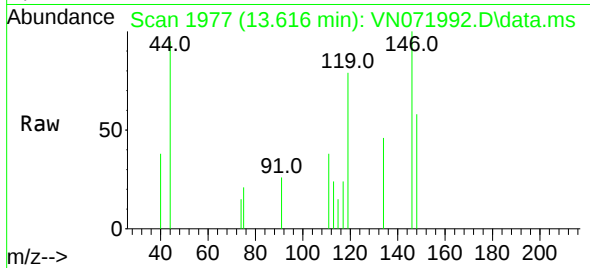
Tgt Ion: 75 Resp: 56782
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



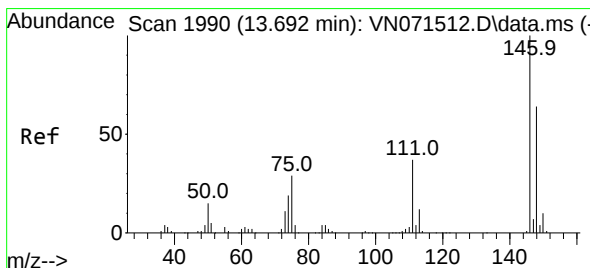
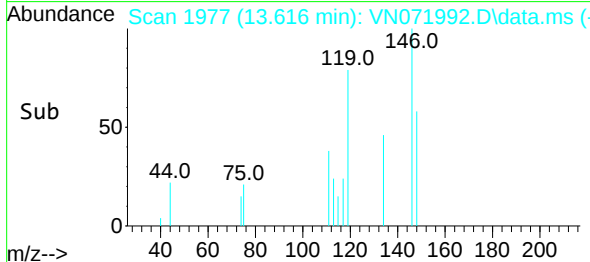
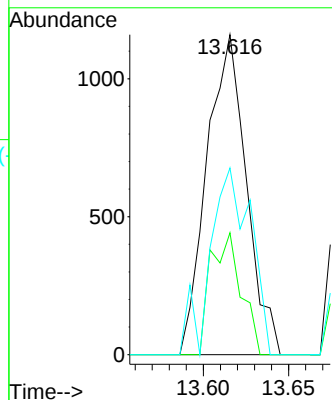


#83
 1,3-Dichlorobenzene
 Concen: 0.209 ug/l
 RT: 13.616 min Scan# 1977
 Delta R.T. 0.006 min
 Lab File: VN071992.D
 Acq: 14 Apr 2022 13:06

Instrument :
 MSVOA_N
 ClientSampleId :

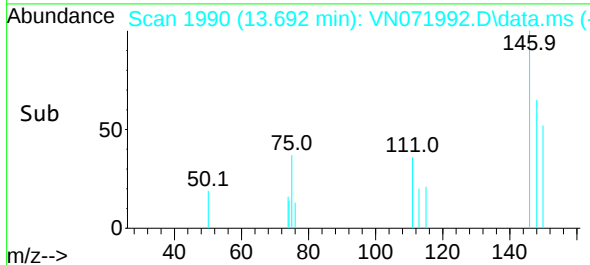
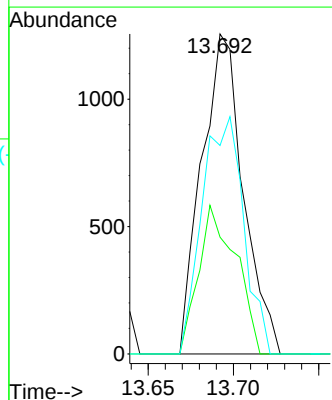
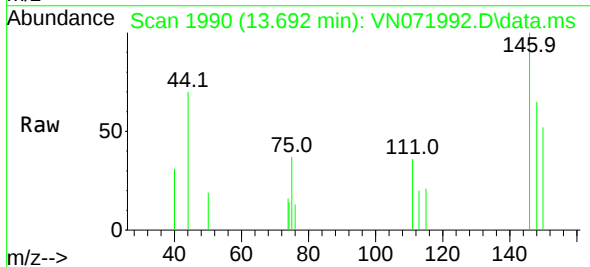


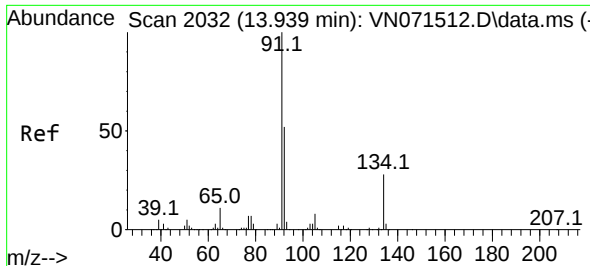
Tgt Ion:146 Resp: 1872
 Ion Ratio Lower Upper
 146 100
 111 29.2 20.8 62.2
 148 55.3 31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.250 ug/l
 RT: 13.692 min Scan# 1990
 Delta R.T. -0.000 min
 Lab File: VN071992.D
 Acq: 14 Apr 2022 13:06

Tgt Ion:146 Resp: 2133
 Ion Ratio Lower Upper
 146 100
 111 41.5 19.5 58.5
 148 74.0 31.1 93.5

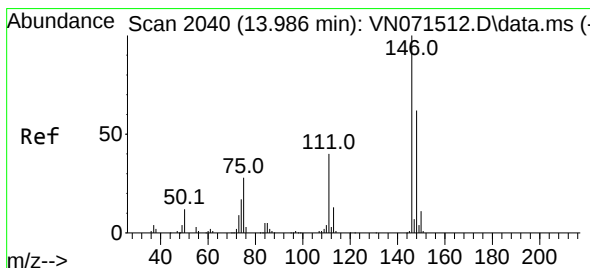
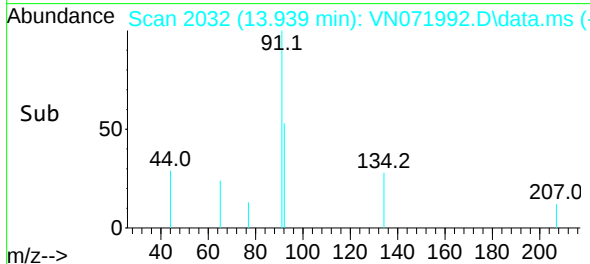
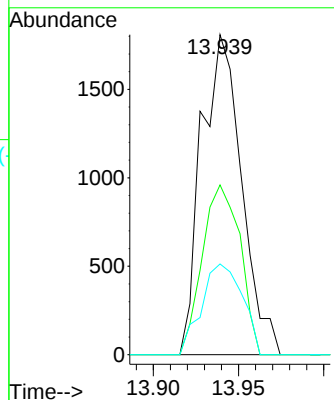
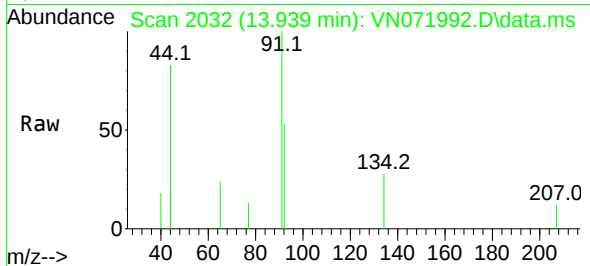




#85
n-Butylbenzene
Concen: 0.226 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

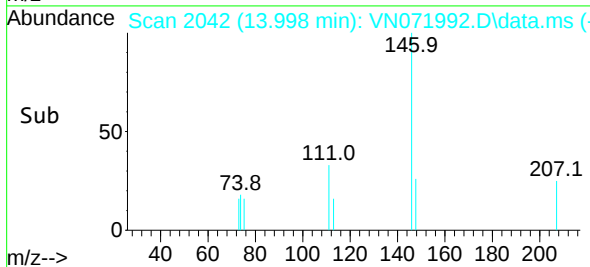
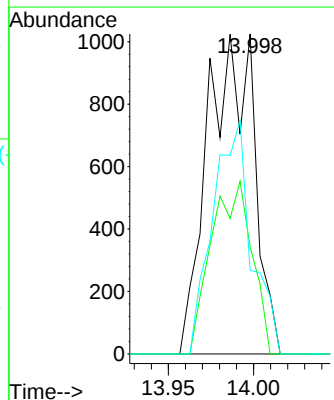
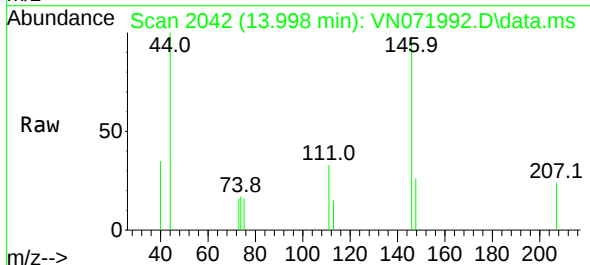
Instrument :
MSVOA_N
ClientSampleId :

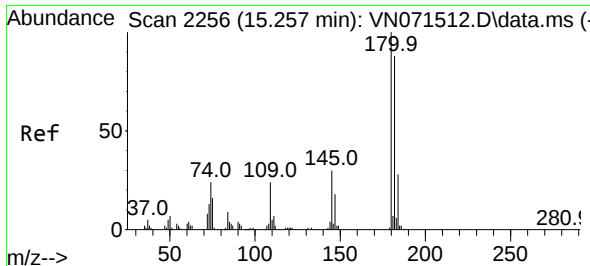
Tgt Ion: 91	Resp:	2970	
Ion	Ratio	Lower	Upper
91	100		
92	49.9	0.0	100.6
134	28.8	0.0	50.2



#87
1,2-Dichlorobenzene
Concen: 0.224 ug/l
RT: 13.998 min Scan# 2042
Delta R.T. 0.012 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion:146	Resp:	1940	
Ion	Ratio	Lower	Upper
146	100		
111	47.2	21.4	64.2
148	57.3	32.5	97.4

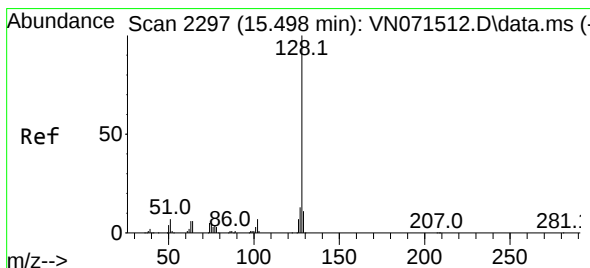
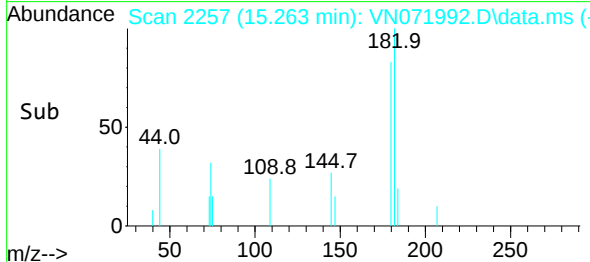
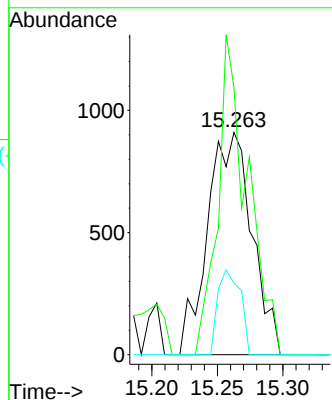
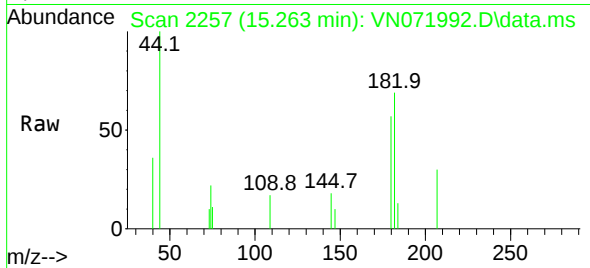




#89
1,2,4-Trichlorobenzene
Concen: 0.538 ug/l
RT: 15.263 min Scan# 2149
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

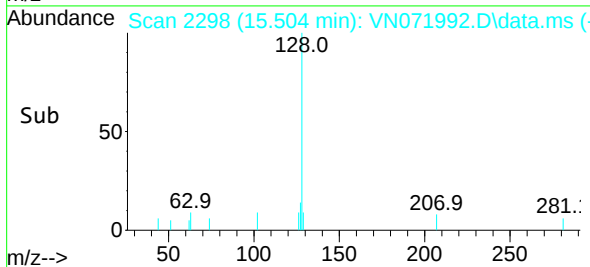
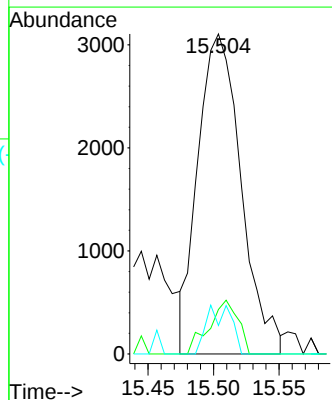
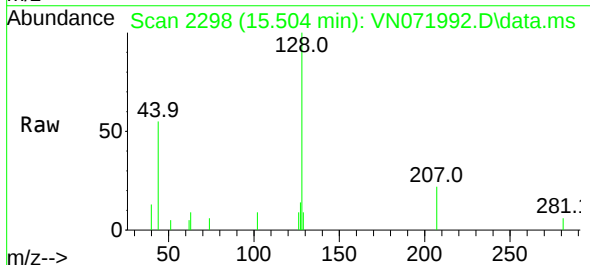
Instrument :
MSVOA_N
ClientSampleId :

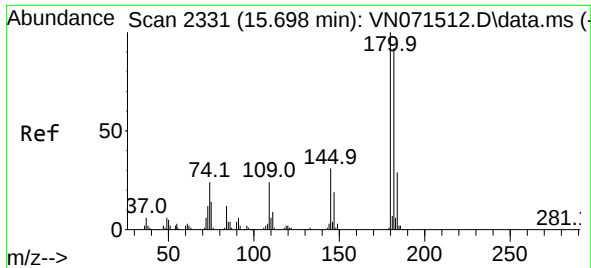
Tgt Ion:180 Resp: 2149
Ion Ratio Lower Upper
180 100
182 67.1 77.7 116.5#
145 19.3 26.6 39.8#



#91
Naphthalene
Concen: 7.338 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.006 min
Lab File: VN071992.D
Acq: 14 Apr 2022 13:06

Tgt Ion:128 Resp: 7107
Ion Ratio Lower Upper
128 100
127 9.4 10.7 16.1#
129 3.9 9.0 13.6#





#92

1,2,3-Trichlorobenzene

Concen: 0.584 ug/l

RT: 15.704 min Scan# 21

Delta R.T. 0.006 min

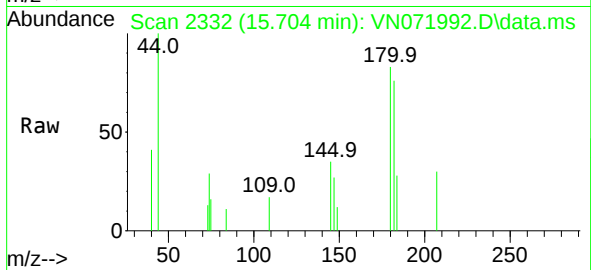
Lab File: VN071992.D

Acq: 14 Apr 2022 13:06

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 2288

Ion Ratio Lower Upper

180 100

182 123.5 0.0 190.0

145 27.8 0.0 67.8

