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 Data File : VN071356.D
 Acq On : 17 Mar 2022 17:10
 Operator : JC\MD
 Sample : N1826-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

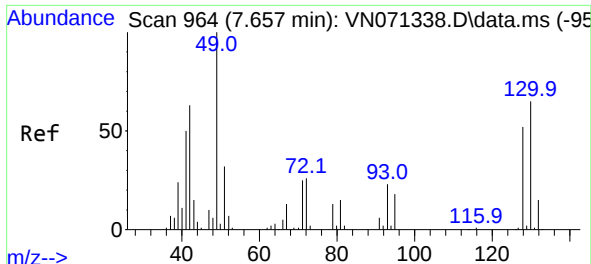
Instrument :
 MSVOA_N
 ClientSampleId :
 6NINF0322

Quant Time: Mar 18 07:02:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	107604	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	586231	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	500470	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	254408	29.779	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.727	95	198224	25.637	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.467%		
63) Toluene-d8	10.439	98	699423	30.380	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.267%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.305	50	3113	0.335	ug/l #	87
12) Methyl Acetate	4.852	43	7605	0.646	ug/l #	73
15) Acetone	4.287	58	4079	3.161	ug/l #	1
17) Allyl chloride	5.081	41	98296	7.753	ug/l #	47
20) Diisopropyl ether	6.493	45	18590	0.729	ug/l #	90
23) tert-Butyl Alcohol	5.363	59	344964	189.998	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	356856	15.198	ug/l	95
26) Cyclohexane	8.092	56	14039	1.142	ug/l #	89
29) 1,1-Dichloropropene	8.457	75	6530	0.692	ug/l #	1
30) 2-Butanone	7.340	43	15101	2.261	ug/l #	66
34) Benzene	8.457	78	350022	11.986	ug/l #	94
36) 1,2-Dichloroethane	8.528	62	4339	0.416	ug/l	98
44) Isopropyl Acetate	8.522	43	14111	0.675	ug/l #	65
46) Methyl methacrylate	9.422	41	6714	0.726	ug/l	63
50) 1,1,2-Trichloroethane	10.869	97	4692	0.658	ug/l #	21
59) 2-Hexanone	11.086	43	6384	0.715	ug/l #	48
62) Toluene	10.504	91	9452	0.330	ug/l	95
66) Ethyl Benzene	11.845	91	16831	0.534	ug/l	91
67) m/p-Xylenes	11.957	106	2685	0.227	ug/l	87
70) Isopropylbenzene	12.580	105	11796	0.391	ug/l	92
71) 1,1,2,2-Tetrachloroethane	12.845	83	2279	0.218	ug/l #	40
77) t-1,4-Dichloro-2-butene	12.727	75	101129	32.107	ug/l #	9
81) sec-Butylbenzene	13.498	105	6609	0.227	ug/l	76
82) p-Isopropyltoluene	13.769	119	8628	0.369	ug/l	93
83) 1,3-Dichlorobenzene	13.686	146	4383	0.380	ug/l	94
84) 1,4-Dichlorobenzene	13.686	146	4383	0.399	ug/l	96
87) 1,2-Dichlorobenzene	13.686	146	4383	0.392	ug/l	92
89) 1,2,4-Trichlorobenzene	15.257	180	4621	0.892	ug/l #	79
91) Naphthalene	15.504	128	13255	0.818	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.257	180	4621	0.870	ug/l	78

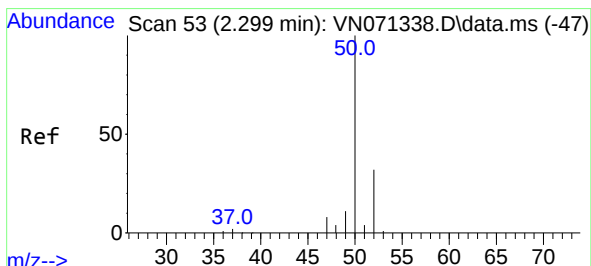
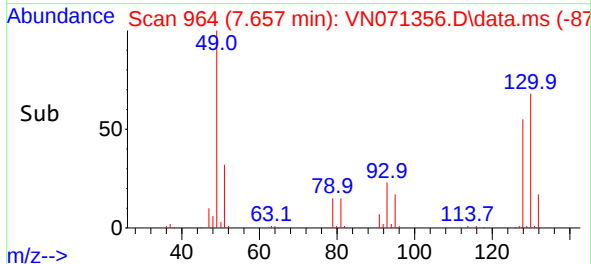
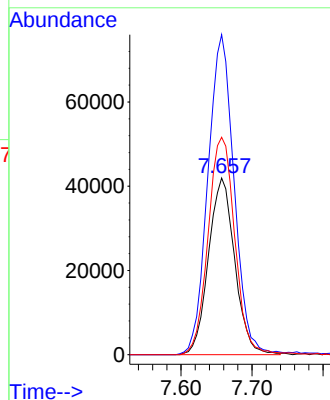
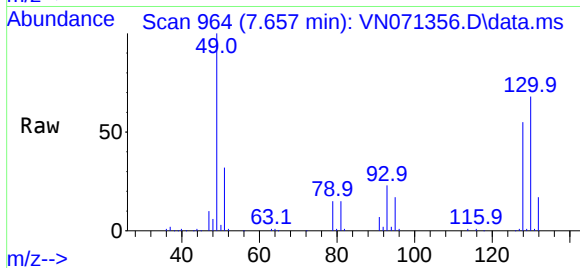
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

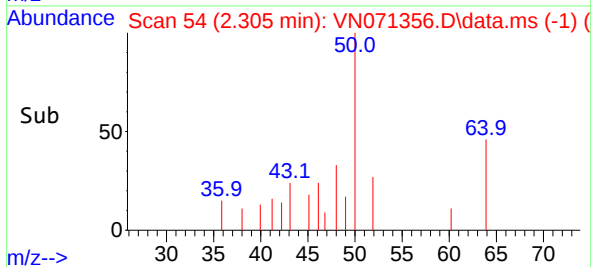
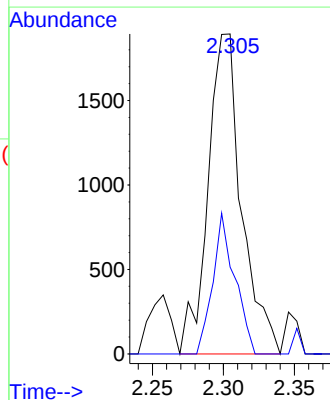
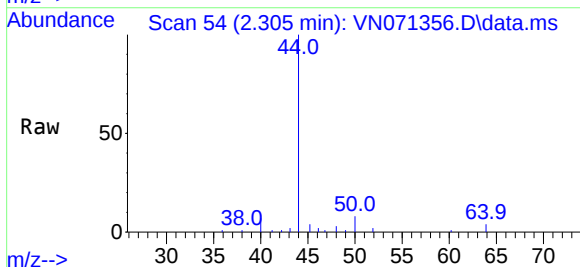
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ClientSampleId :
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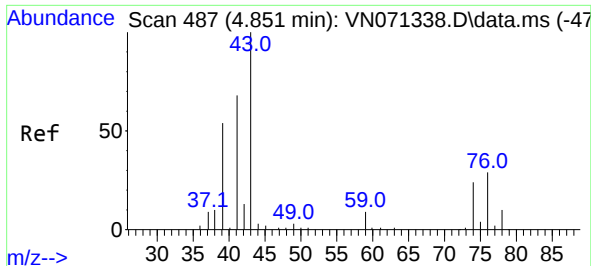
Tgt Ion:128 Resp: 107604
Ion Ratio Lower Upper
128 100
49 180.2 0.0 392.3
130 125.2 0.0 320.2



#3
Chloromethane
Concen: 0.335 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 50 Resp: 3113
Ion Ratio Lower Upper
50 100
52 27.1 27.8 41.6#

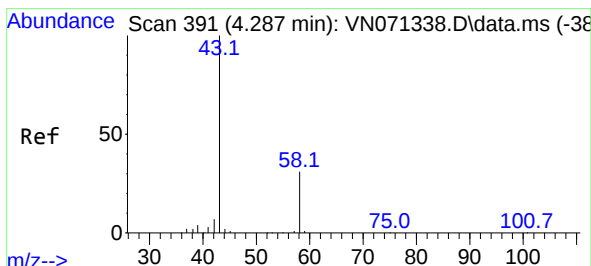
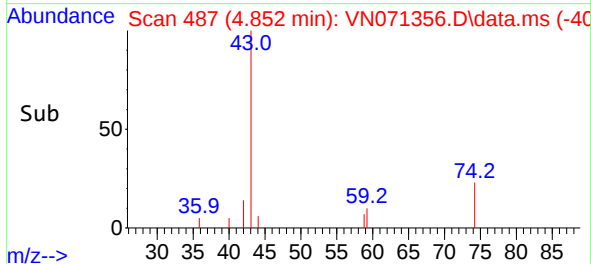
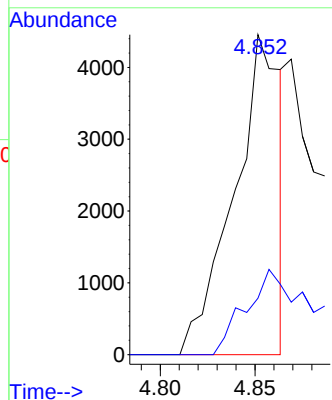
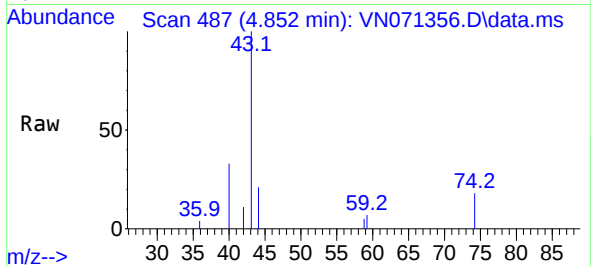




#12
Methyl Acetate
Concen: 0.646 ug/l
RT: 4.852 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

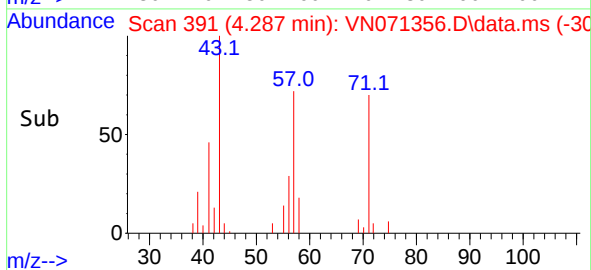
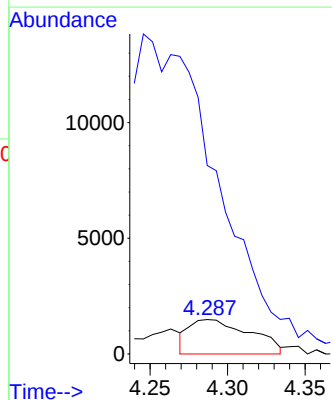
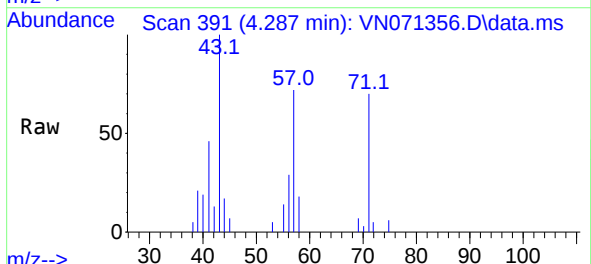
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ClientSampleId :
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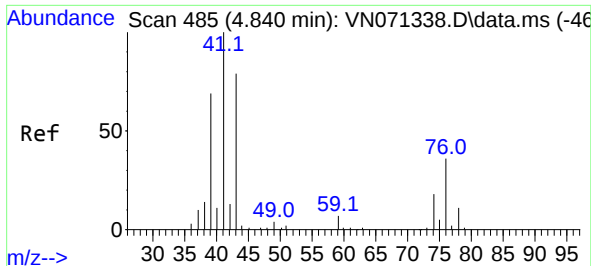
Tgt Ion: 43 Resp: 7605
Ion Ratio Lower Upper
43 100
74 12.0 20.8 31.2#



#15
Acetone
Concen: 3.161 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 58 Resp: 4079
Ion Ratio Lower Upper
58 100
43 552.1 256.6 384.8#

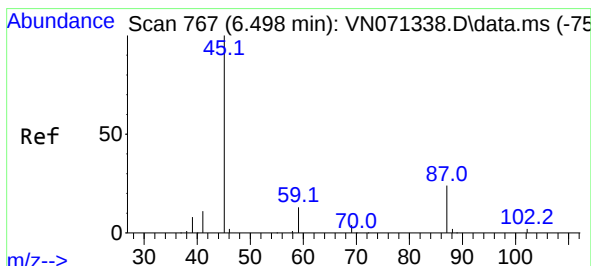
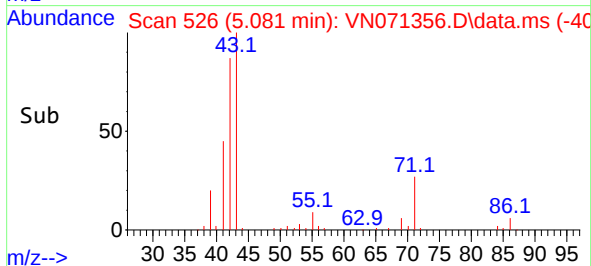
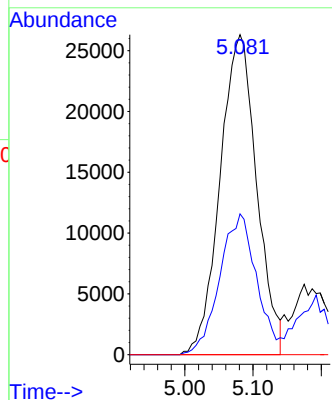
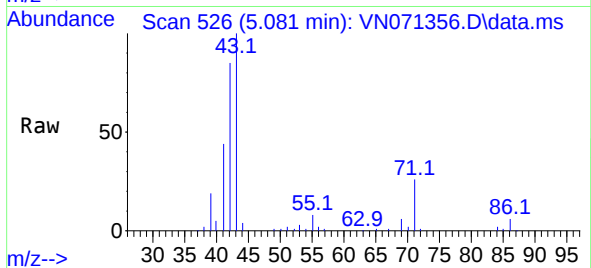




#17
 Allyl chloride
 Concen: 7.753 ug/l
 RT: 5.081 min Scan# 51
 Delta R.T. 0.241 min
 Lab File: VN071356.D
 Acq: 17 Mar 2022 17:10

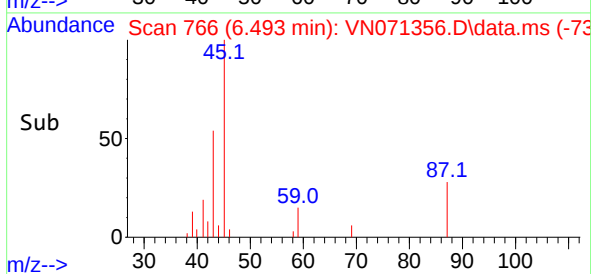
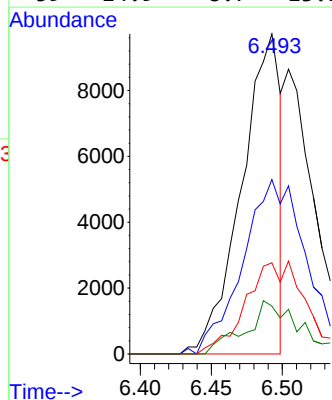
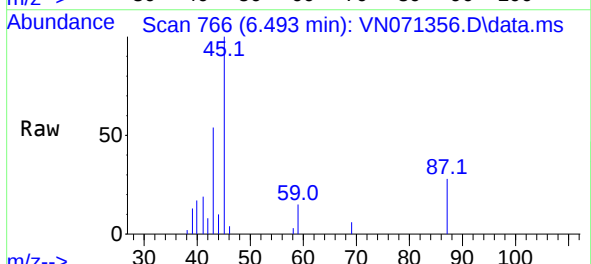
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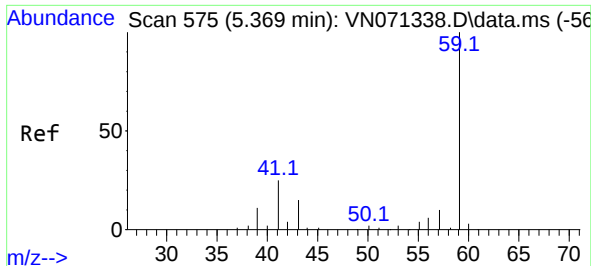
Tgt Ion: 41 Resp: 98296
 Ion Ratio Lower Upper
 41 100
 39 44.0 44.6 134.0#
 76 0.0 19.6 58.7#



#20
 Diisopropyl ether
 Concen: 0.729 ug/l
 RT: 6.493 min Scan# 766
 Delta R.T. -0.006 min
 Lab File: VN071356.D
 Acq: 17 Mar 2022 17:10

Tgt Ion: 45 Resp: 18590
 Ion Ratio Lower Upper
 45 100
 43 54.5 51.0 76.4
 87 28.5 25.0 37.4
 59 14.9 8.7 13.1#

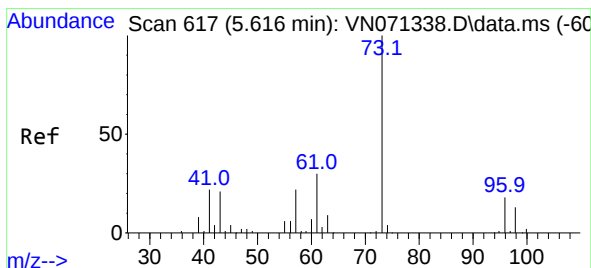
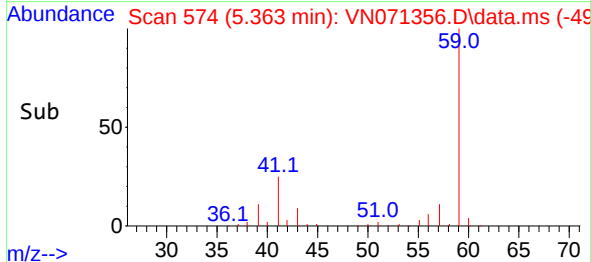
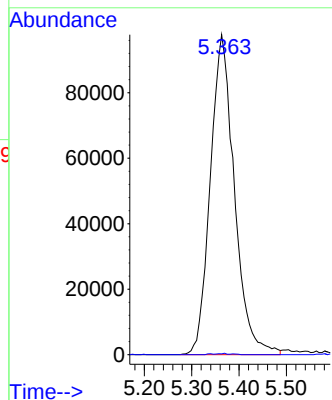
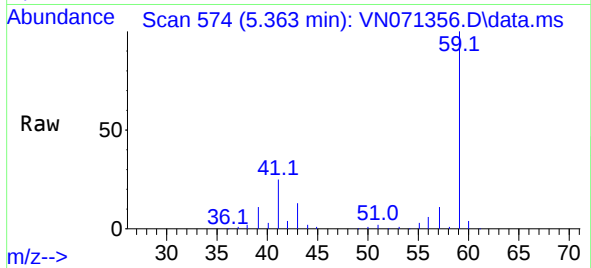




#23
tert-Butyl Alcohol
Concen: 189.998 ug/l
RT: 5.363 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

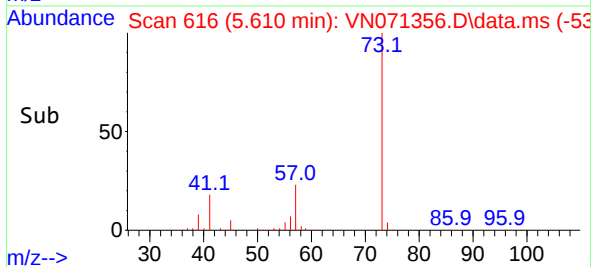
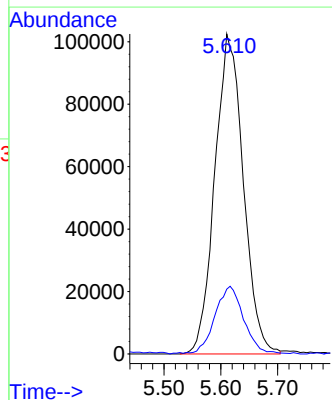
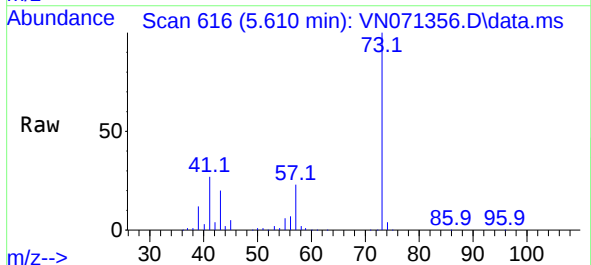
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ClientSampleId :
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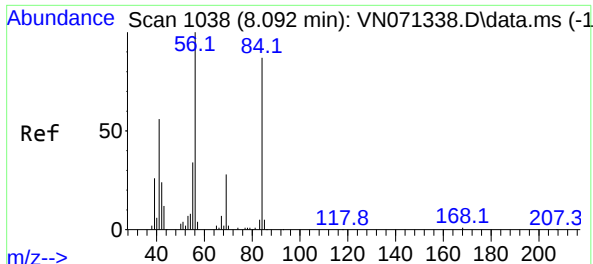
Tgt Ion: 59 Resp: 344964
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 15.198 ug/l
RT: 5.610 min Scan# 616
Delta R.T. -0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 73 Resp: 356856
Ion Ratio Lower Upper
73 100
43 20.2 18.1 27.1

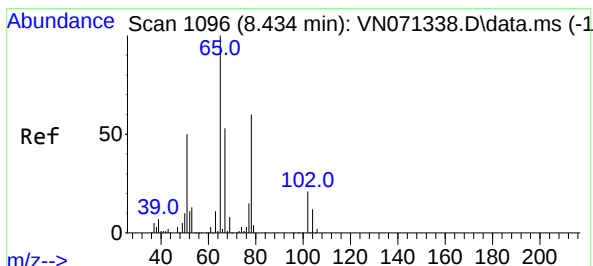
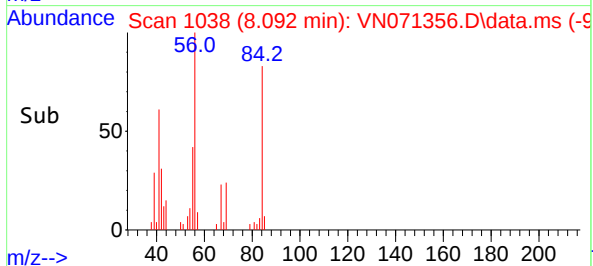
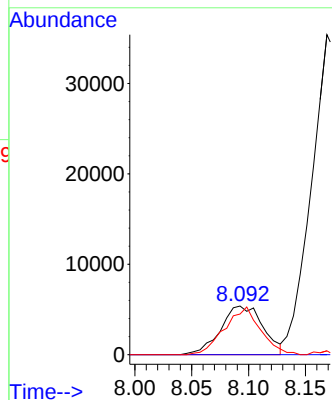
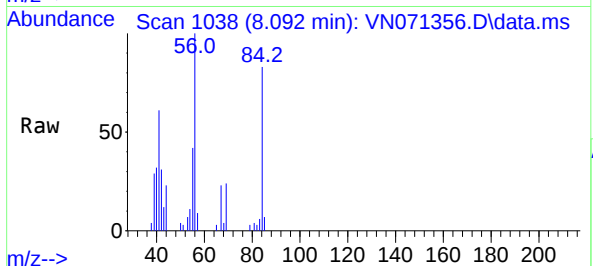




#26
Cyclohexane
Concen: 1.142 ug/l
RT: 8.092 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

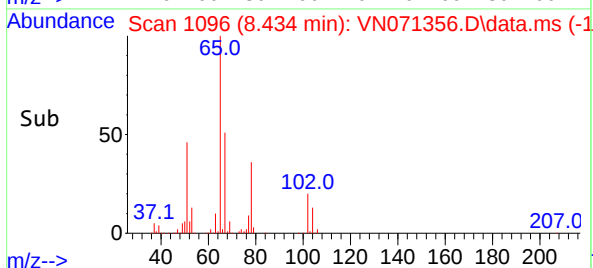
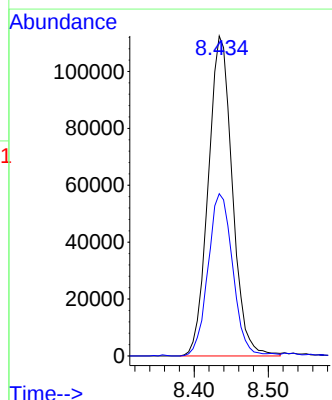
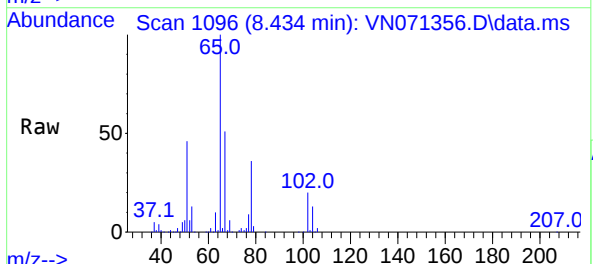
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ClientSampleId :
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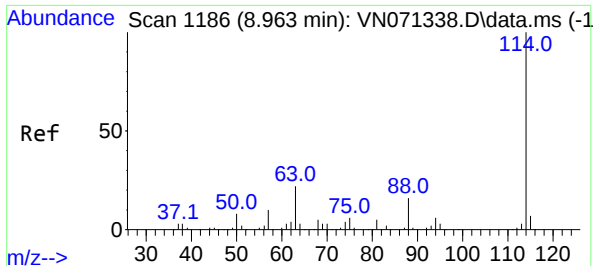
Tgt Ion: 56 Resp: 14039
Ion Ratio Lower Upper
56 100
89 0.0 0.1 0.1#
84 82.7 74.6 111.8



#27
1,2-Dichloroethane-d4
Concen: 29.779 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 65 Resp: 254408
Ion Ratio Lower Upper
65 100
67 51.7 40.2 60.2

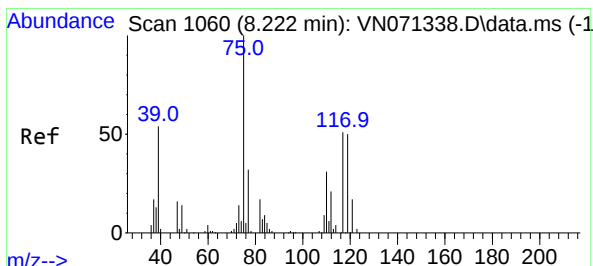
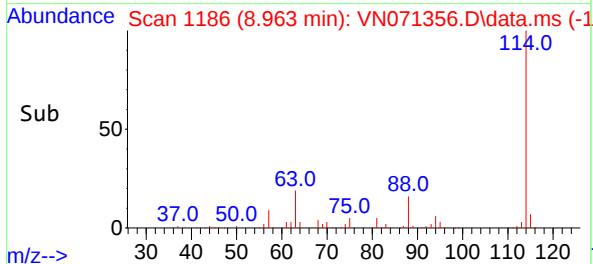
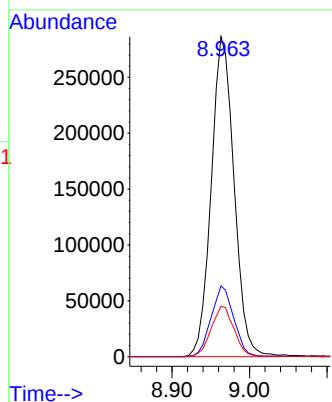
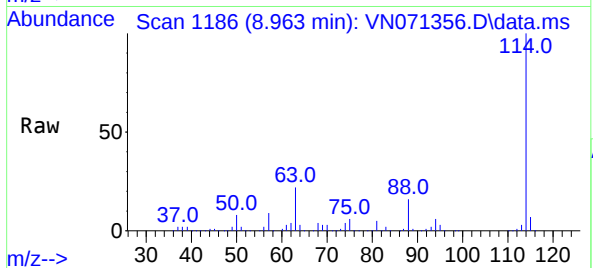




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

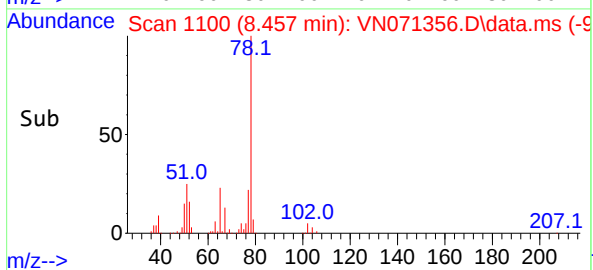
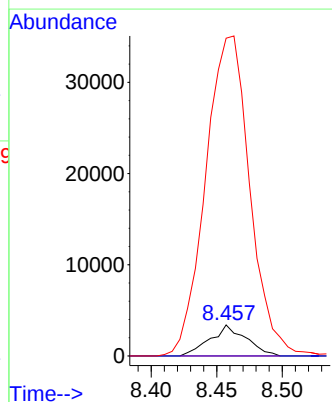
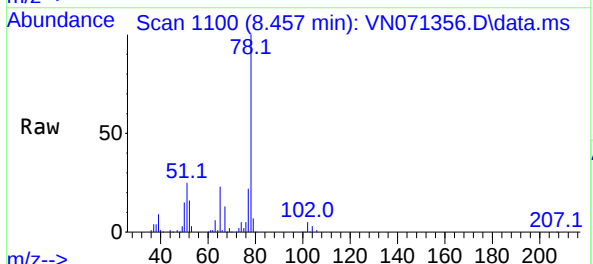
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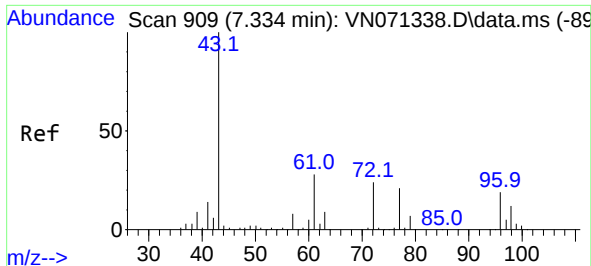
Tgt Ion:114 Resp: 586231
Ion Ratio Lower Upper
114 100
63 21.9 15.8 23.6
88 15.8 11.6 17.4



#29
1,1-Dichloropropene
Concen: 0.692 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.235 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 75 Resp: 6530
Ion Ratio Lower Upper
75 100
110 0.0 0.0 74.2
77 1266.3 0.0 63.2#

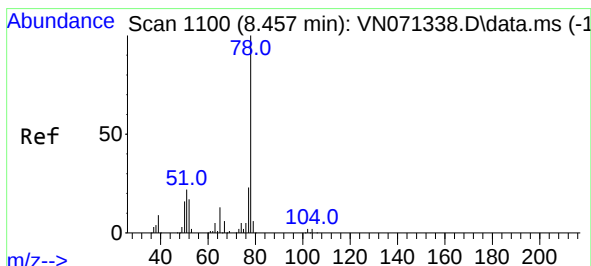
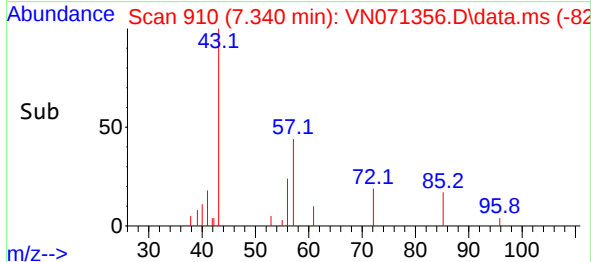
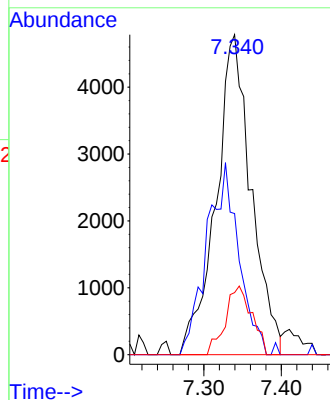
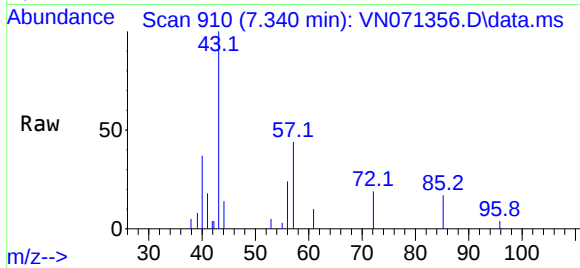




#30
2-Butanone
Concen: 2.261 ug/l
RT: 7.340 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

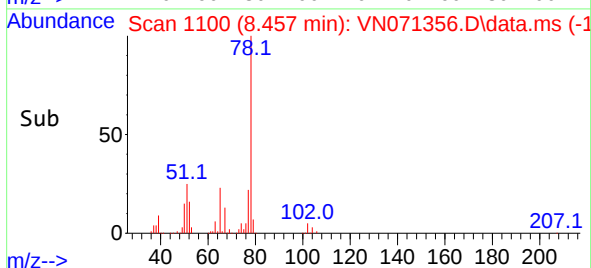
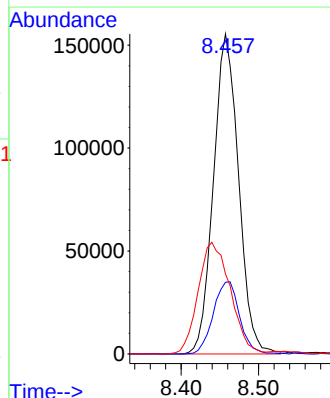
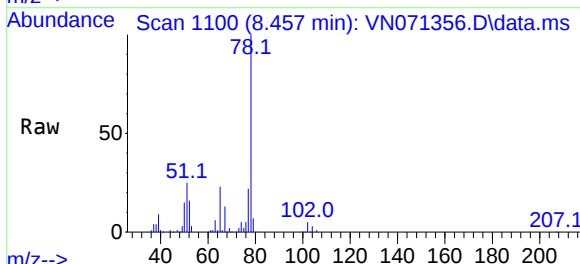
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ClientSampleId :
6NINF0322

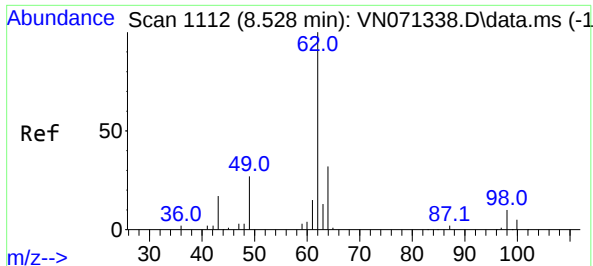
Tgt Ion: 43 Resp: 15101
Ion Ratio Lower Upper
43 100
57 31.9 6.7 10.1#
72 16.1 23.2 34.8#



#34
Benzene
Concen: 11.986 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 78 Resp: 350022
Ion Ratio Lower Upper
78 100
77 22.4 19.1 28.7
51 24.2 16.0 24.0#





#36

1,2-Dichloroethane

Concen: 0.416 ug/l

RT: 8.528 min Scan# 1112

Delta R.T. 0.000 min

Lab File: VN071356.D

Acq: 17 Mar 2022 17:10

Instrument :

MSVOA_N

ClientSampleId :

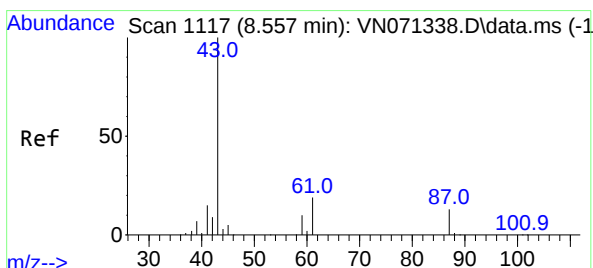
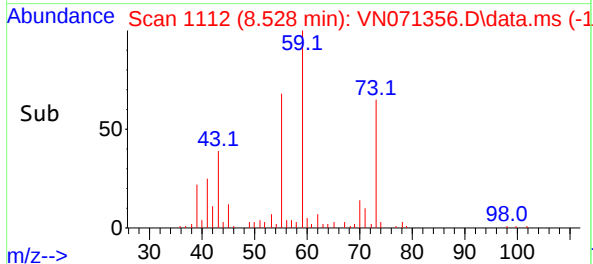
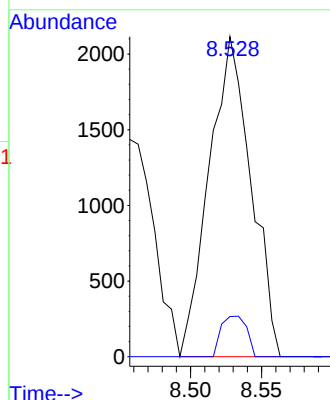
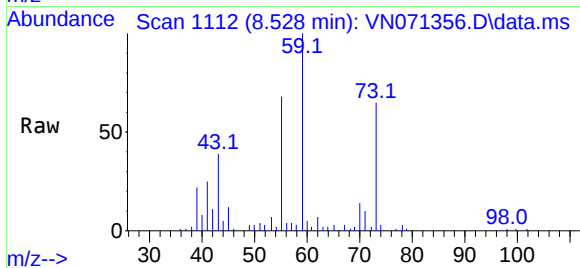
6NINF0322

Tgt Ion: 62 Resp: 4339

Ion Ratio Lower Upper

62 100

98 7.7 6.6 10.0



#44

Isopropyl Acetate

Concen: 0.675 ug/l

RT: 8.522 min Scan# 1111

Delta R.T. -0.035 min

Lab File: VN071356.D

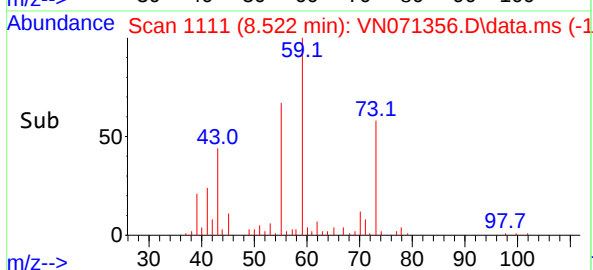
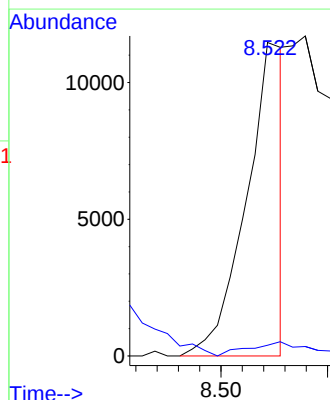
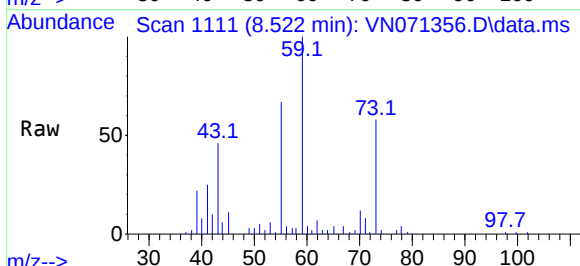
Acq: 17 Mar 2022 17:10

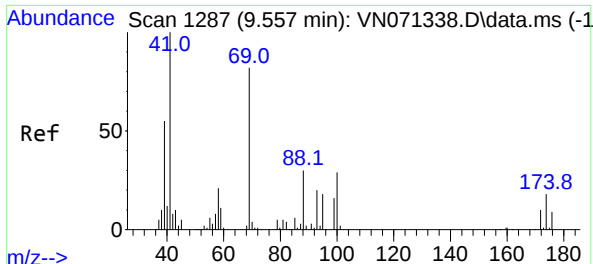
Tgt Ion: 43 Resp: 14111

Ion Ratio Lower Upper

43 100

61 7.3 20.1 30.1#





#46

Methyl methacrylate

Concen: 0.726 ug/l

RT: 9.422 min Scan# 11

Delta R.T. -0.135 min

Lab File: VN071356.D

Acq: 17 Mar 2022 17:10

Instrument :

MSVOA_N

ClientSampleId :

6NINF0322

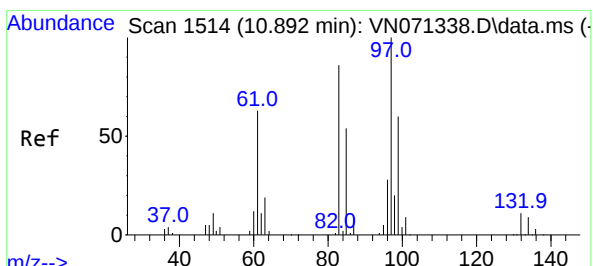
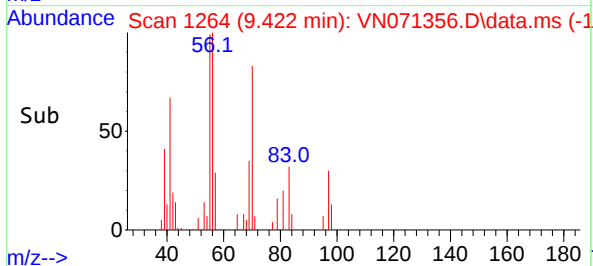
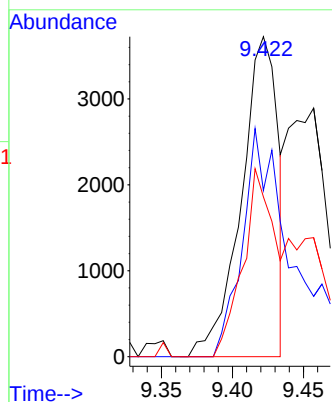
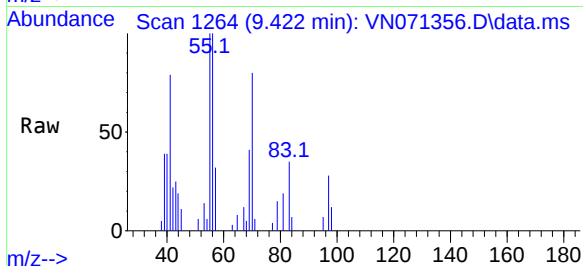
Tgt Ion: 41 Resp: 6714

Ion Ratio Lower Upper

41 100

69 52.0 44.4 133.2

39 49.9 39.9 119.6



#50

1,1,2-Trichloroethane

Concen: 0.658 ug/l

RT: 10.869 min Scan# 1510

Delta R.T. -0.023 min

Lab File: VN071356.D

Acq: 17 Mar 2022 17:10

Tgt Ion: 97 Resp: 4692

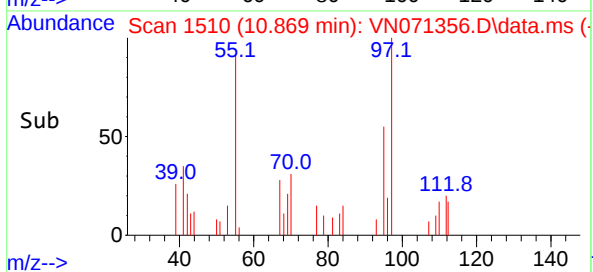
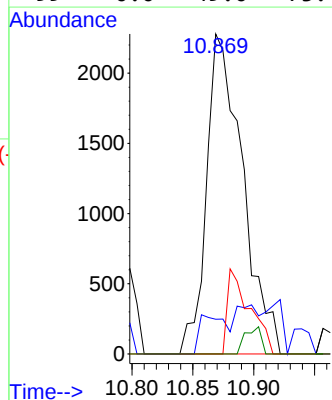
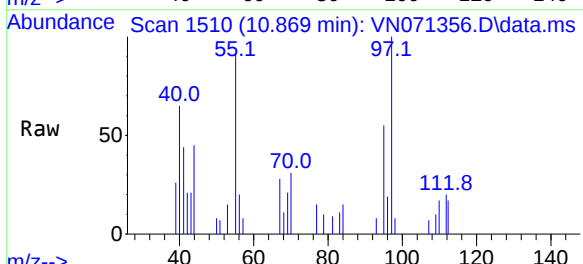
Ion Ratio Lower Upper

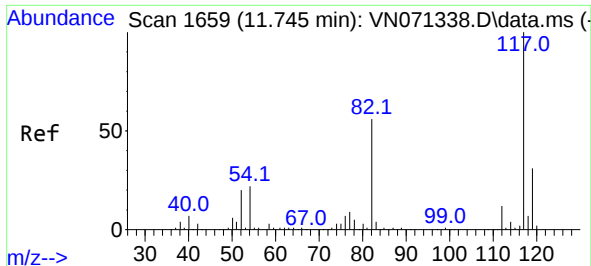
97 100

83 10.9 67.2 100.8#

85 0.0 43.0 64.4#

99 0.0 49.0 73.4#

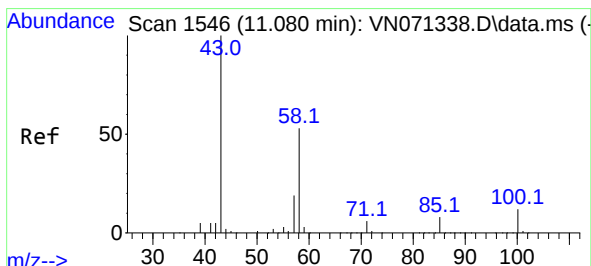
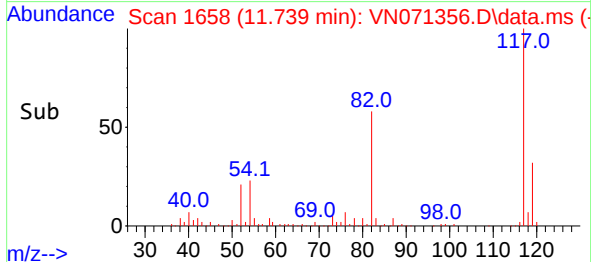
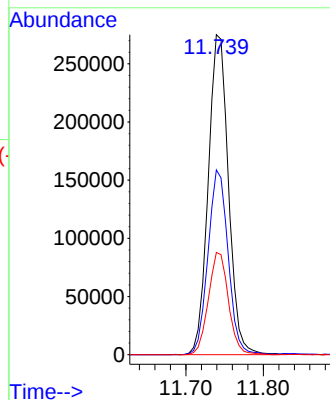
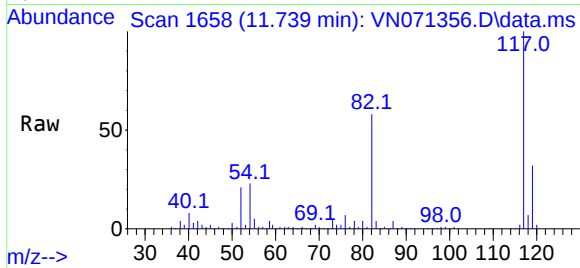




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

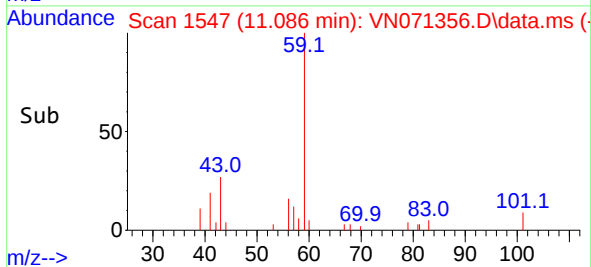
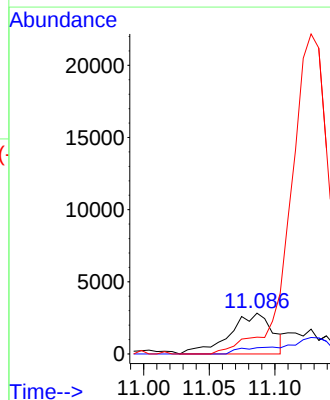
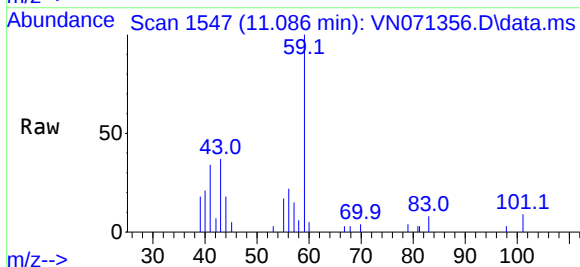
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

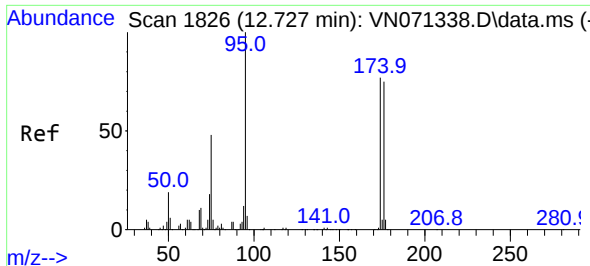
Tgt Ion:117 Resp: 500470
Ion Ratio Lower Upper
117 100
82 57.4 43.6 65.4
119 31.6 25.8 38.6



#59
2-Hexanone
Concen: 0.715 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 43 Resp: 6384
Ion Ratio Lower Upper
43 100
58 9.9 42.2 63.2#
57 30.7 15.0 22.4#

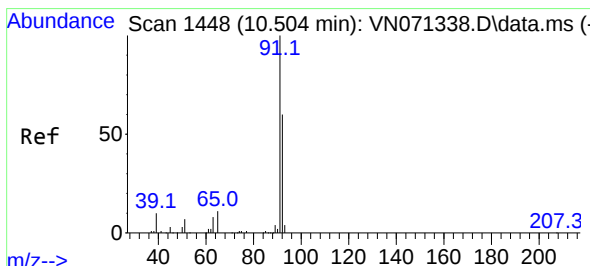
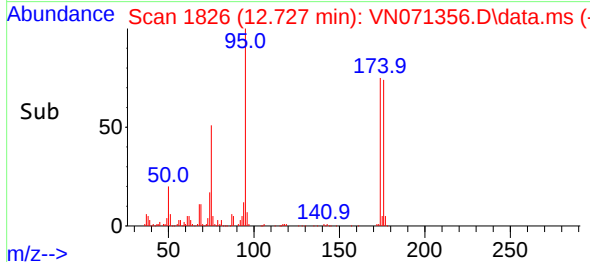
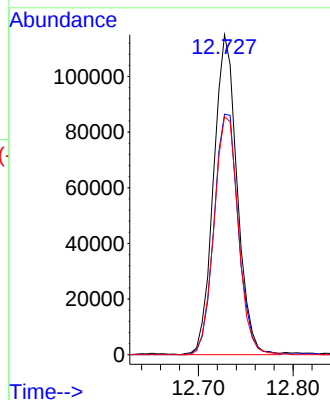
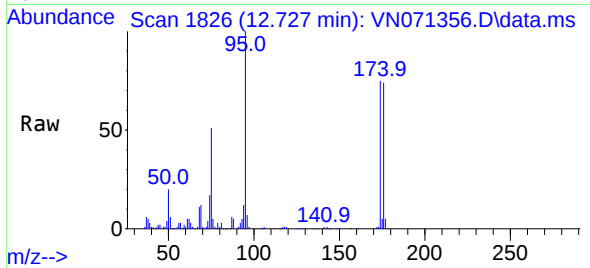




#60
4-Bromofluorobenzene
Concen: 25.637 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

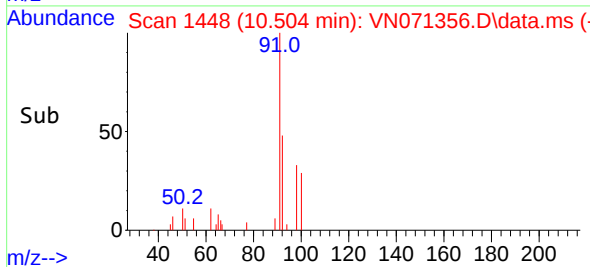
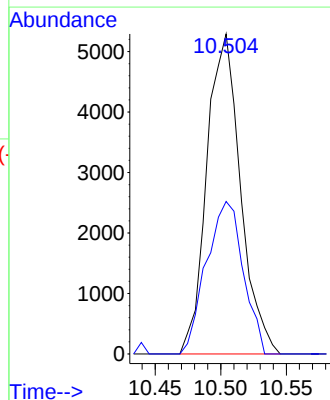
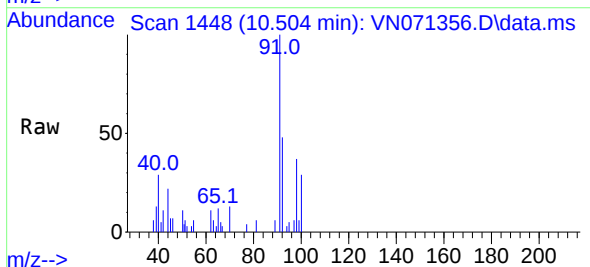
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

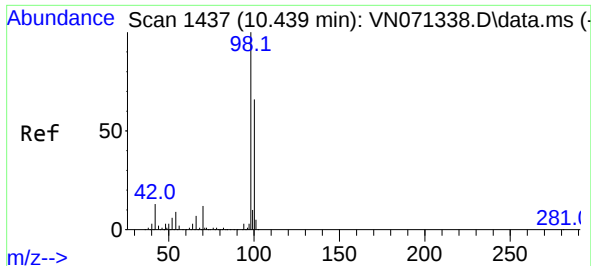
Tgt Ion: 95 Resp: 198224
Ion Ratio Lower Upper
95 100
174 78.1 62.9 94.3
176 76.8 61.0 91.4



#62
Toluene
Concen: 0.330 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 91 Resp: 9452
Ion Ratio Lower Upper
91 100
92 52.2 44.6 67.0

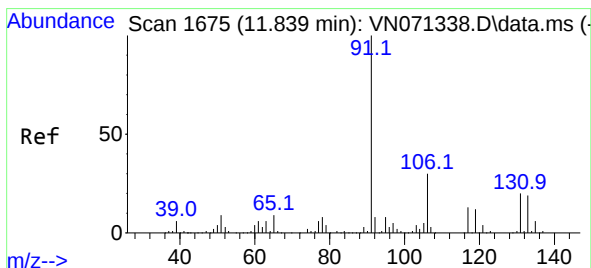
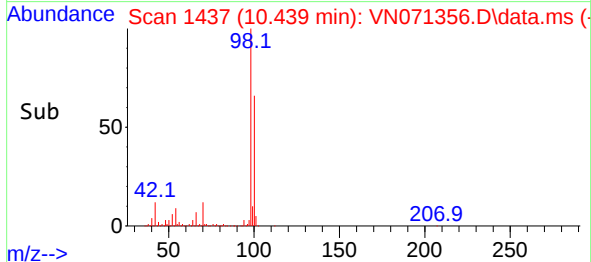
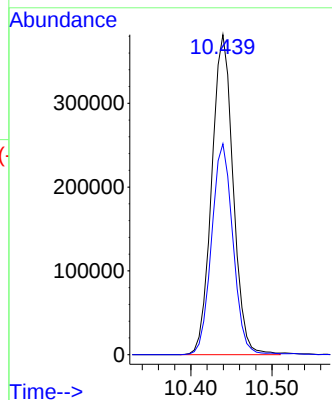
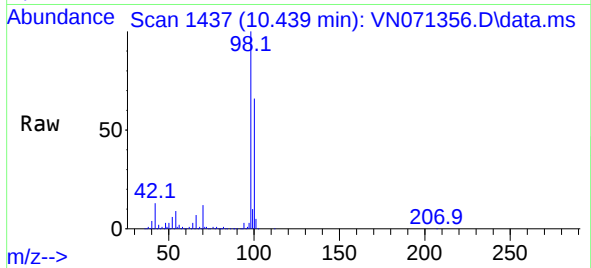




#63
Toluene-d8
Concen: 30.380 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

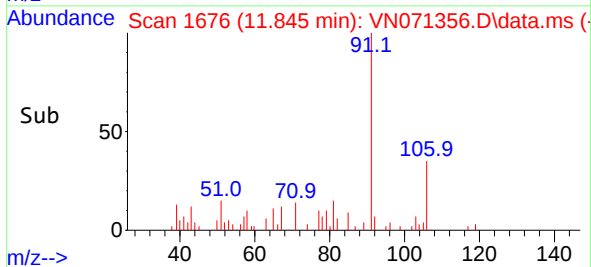
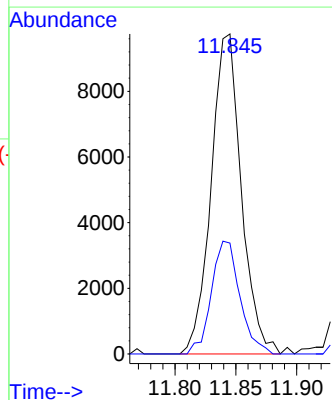
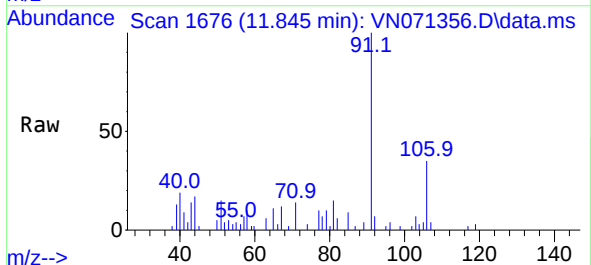
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

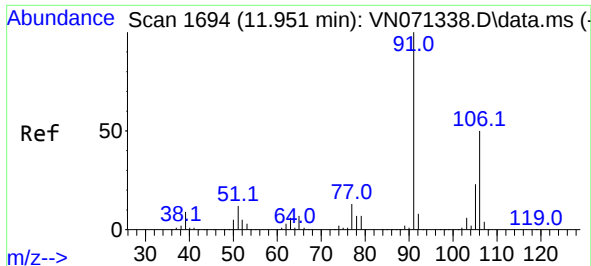
Tgt Ion: 98 Resp: 699423
Ion Ratio Lower Upper
98 100
100 65.5 50.6 76.0



#66
Ethyl Benzene
Concen: 0.534 ug/l
RT: 11.845 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 91 Resp: 16831
Ion Ratio Lower Upper
91 100
106 34.6 24.0 36.0

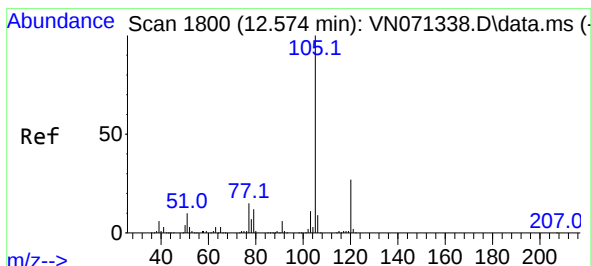
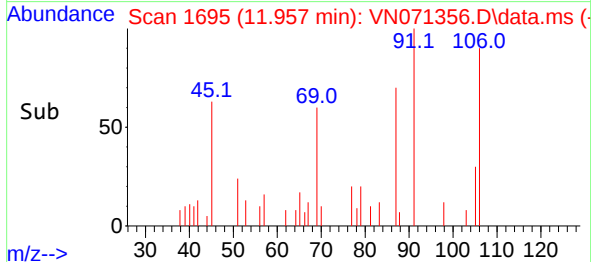
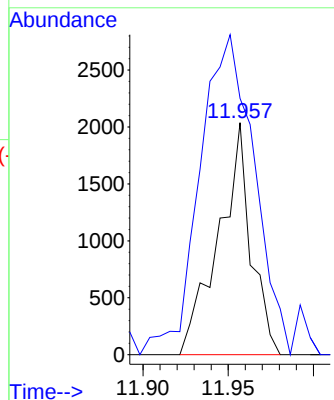
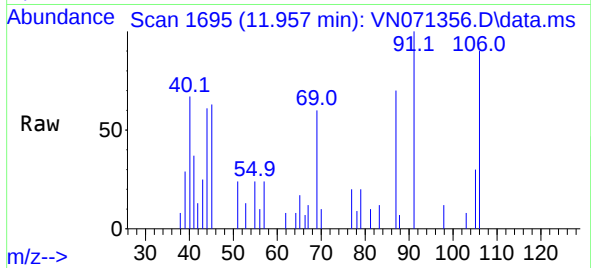




#67
m/p-Xylenes
Concen: 0.227 ug/l
RT: 11.957 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

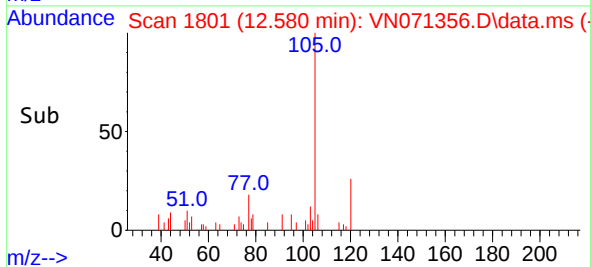
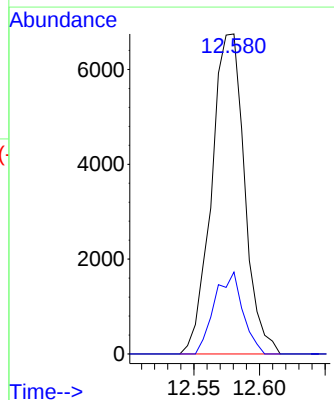
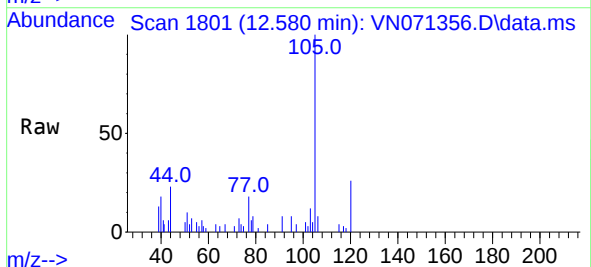
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

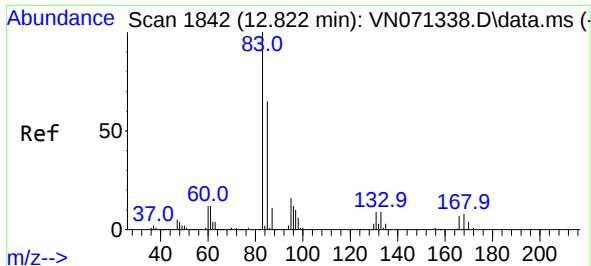
Tgt Ion:106 Resp: 2685
Ion Ratio Lower Upper
106 100
91 223.2 162.9 244.3



#70
Isopropylbenzene
Concen: 0.391 ug/l
RT: 12.580 min Scan# 1801
Delta R.T. 0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion:105 Resp: 11796
Ion Ratio Lower Upper
105 100
120 21.9 18.3 34.1

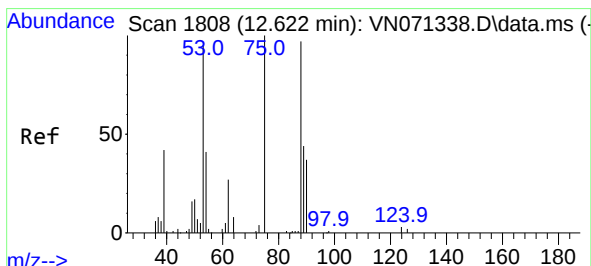
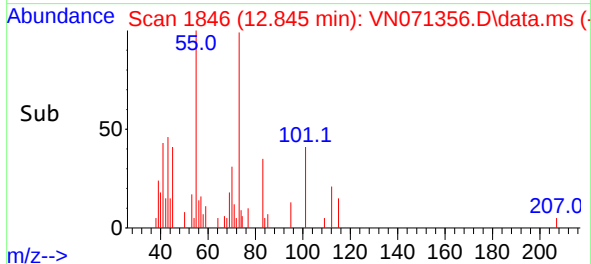
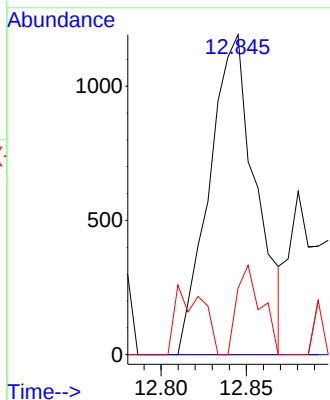
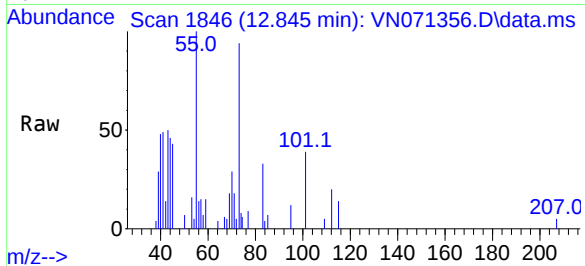




#71
1,1,2-Tetrachloroethane
Concen: 0.218 ug/l
RT: 12.845 min Scan# 1846
Delta R.T. 0.024 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

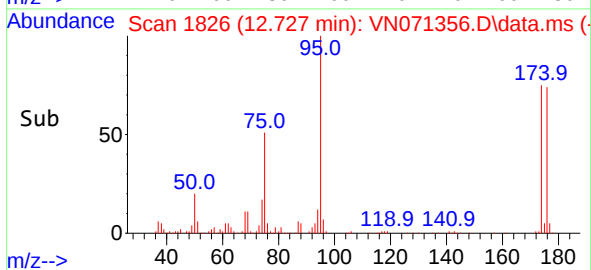
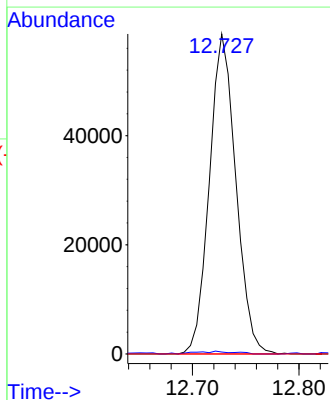
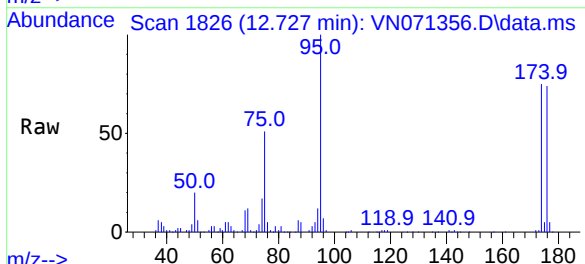
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

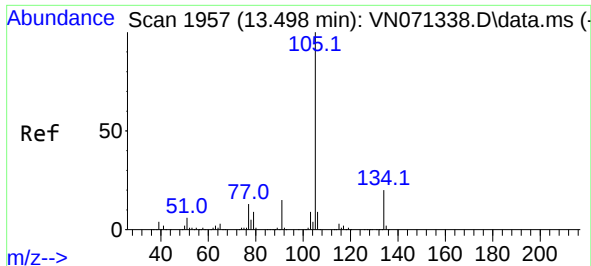
Tgt Ion: 83 Resp: 2279
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 14.6 33.1 99.2#



#77
t-1,4-Dichloro-2-butene
Concen: 32.107 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion: 75 Resp: 101129
Ion Ratio Lower Upper
75 100
53 0.6 51.8 155.5#
89 0.0 22.9 68.7#

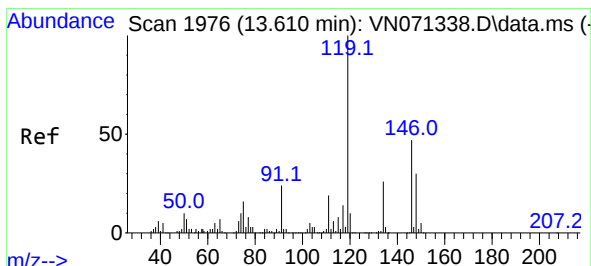
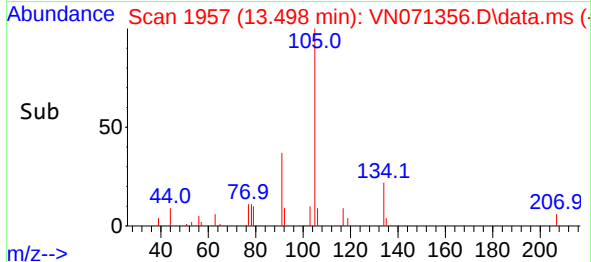
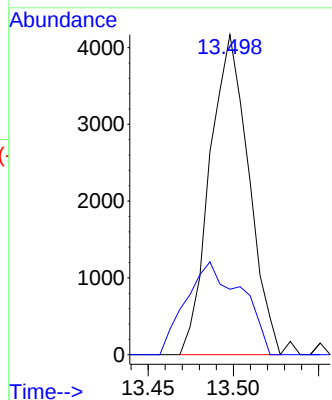
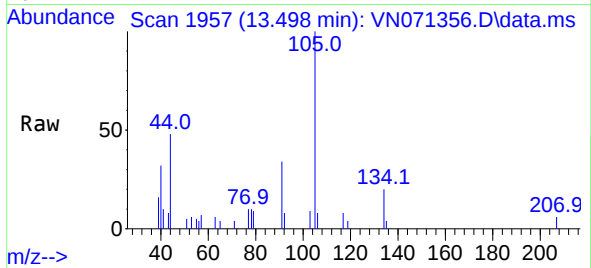




#81
 sec-Butylbenzene
 Concen: 0.227 ug/l
 RT: 13.498 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VN071356.D
 Acq: 17 Mar 2022 17:10

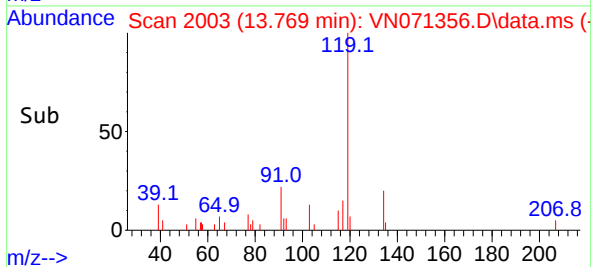
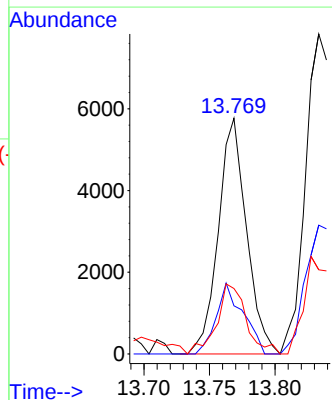
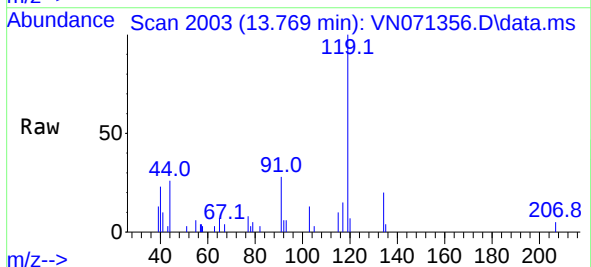
Instrument :
 MSVOA_N
 ClientSampleId :
 6NINF0322

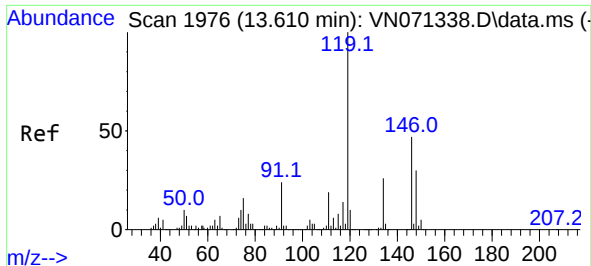
Tgt Ion:105 Resp: 6609
 Ion Ratio Lower Upper
 105 100
 134 30.6 0.0 39.4



#82
 p-Isopropyltoluene
 Concen: 0.369 ug/l
 RT: 13.769 min Scan# 2003
 Delta R.T. 0.159 min
 Lab File: VN071356.D
 Acq: 17 Mar 2022 17:10

Tgt Ion:119 Resp: 8628
 Ion Ratio Lower Upper
 119 100
 134 28.7 0.0 51.8
 91 29.8 0.0 50.4

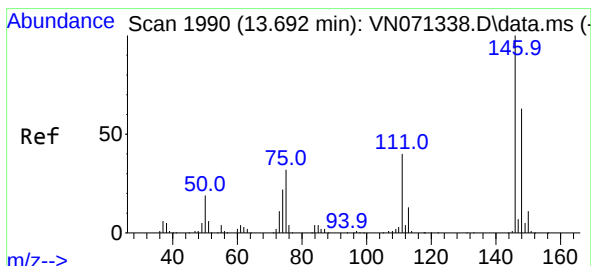
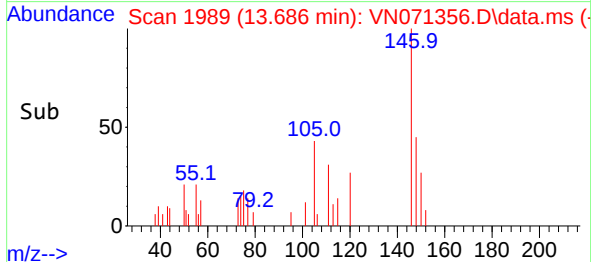
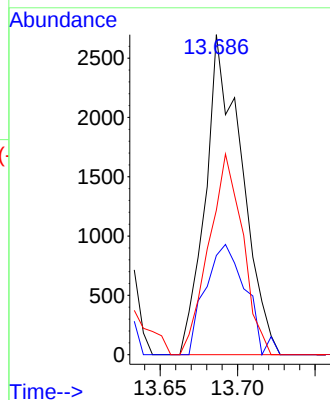
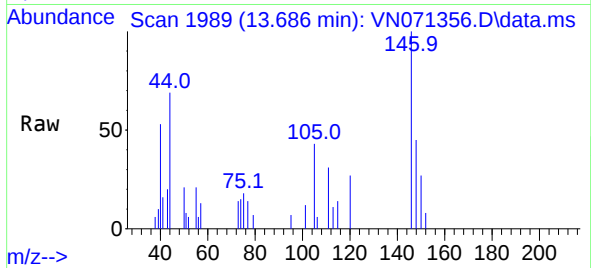




#83
1,3-Dichlorobenzene
Concen: 0.380 ug/l
RT: 13.686 min Scan# 1989
Delta R.T. 0.077 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

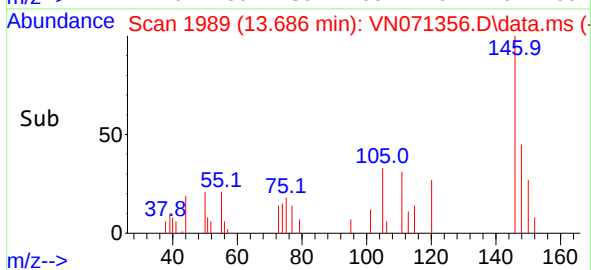
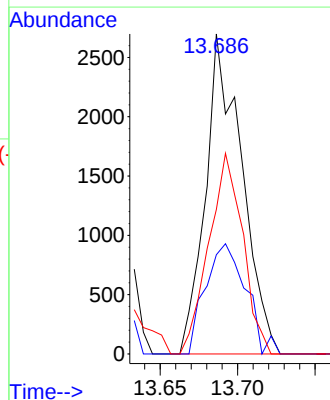
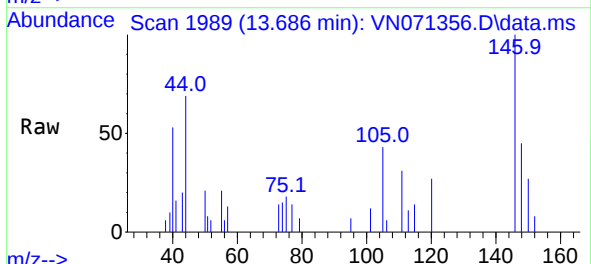
Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

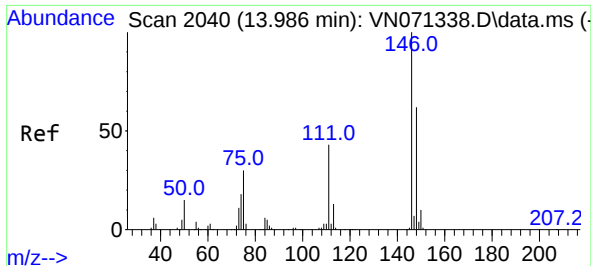
Tgt Ion:146	Resp:	4383
Ion Ratio	Lower	Upper
146	100	
111	37.2	20.8 62.2
148	58.8	31.4 94.3



#84
1,4-Dichlorobenzene
Concen: 0.399 ug/l
RT: 13.686 min Scan# 1989
Delta R.T. -0.006 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion:146	Resp:	4383
Ion Ratio	Lower	Upper
146	100	
111	37.2	19.5 58.5
148	58.8	31.1 93.5





#87

1,2-Dichlorobenzene

Concen: 0.392 ug/l

RT: 13.686 min Scan# 1989

Delta R.T. -0.300 min

Lab File: VN071356.D

Acq: 17 Mar 2022 17:10

Instrument :

MSVOA_N

ClientSampleId :

6NINF0322

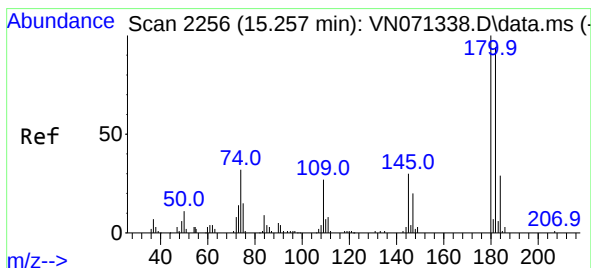
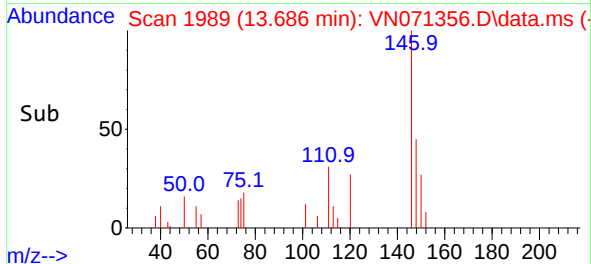
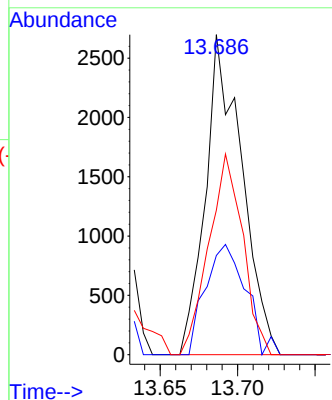
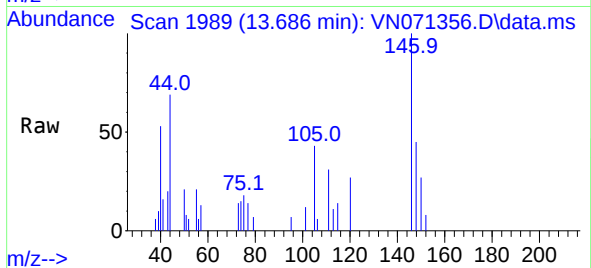
Tgt Ion:146 Resp: 4383

Ion Ratio Lower Upper

146 100

111 37.2 21.4 64.2

148 58.8 32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.892 ug/l

RT: 15.257 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VN071356.D

Acq: 17 Mar 2022 17:10

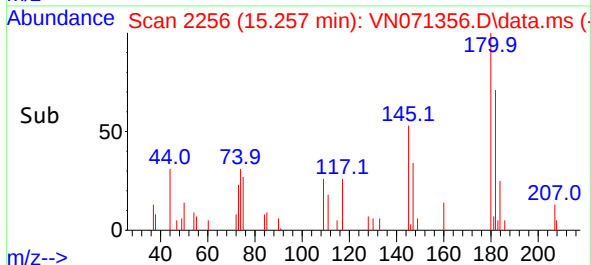
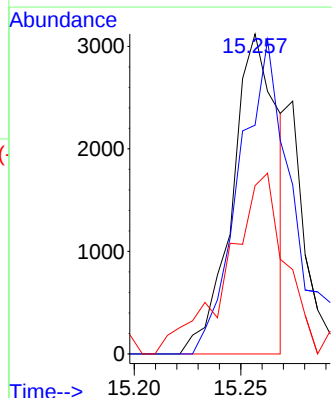
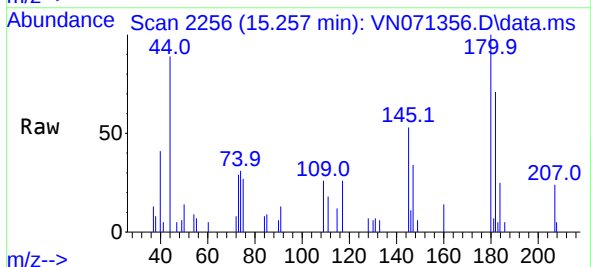
Tgt Ion:180 Resp: 4621

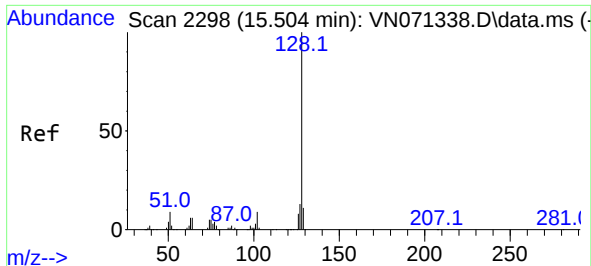
Ion Ratio Lower Upper

180 100

182 109.5 77.7 116.5

145 58.6 26.6 39.8#

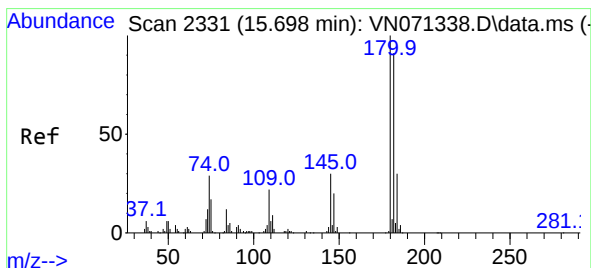
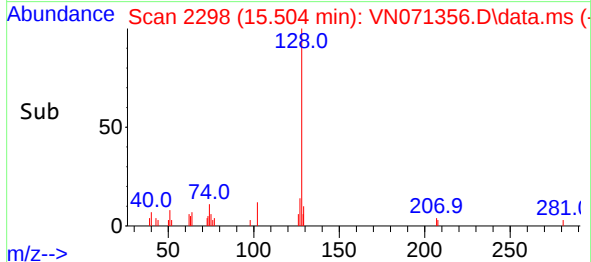
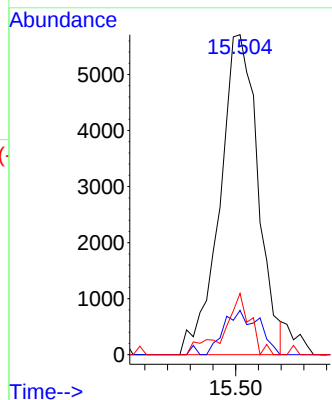
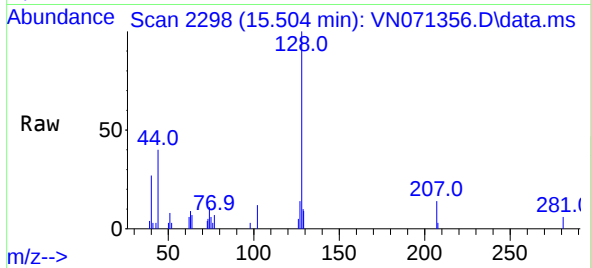




#91
Naphthalene
Concen: 0.818 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Instrument :
MSVOA_N
ClientSampleId :
6NINF0322

Tgt Ion:128 Resp: 13255
Ion Ratio Lower Upper
128 100
127 8.3 10.7 16.1#
129 9.7 9.0 13.6



#92
1,2,3-Trichlorobenzene
Concen: 0.870 ug/l
RT: 15.257 min Scan# 2256
Delta R.T. -0.441 min
Lab File: VN071356.D
Acq: 17 Mar 2022 17:10

Tgt Ion:180 Resp: 4621
Ion Ratio Lower Upper
180 100
182 109.5 0.0 190.0
145 58.6 0.0 67.8

