

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022322\
 Data File : VN071036.D
 Acq On : 23 Feb 2022 16:32
 Operator : JC\MD
 Sample : N1638-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30960

Quant Time: Feb 24 00:40:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

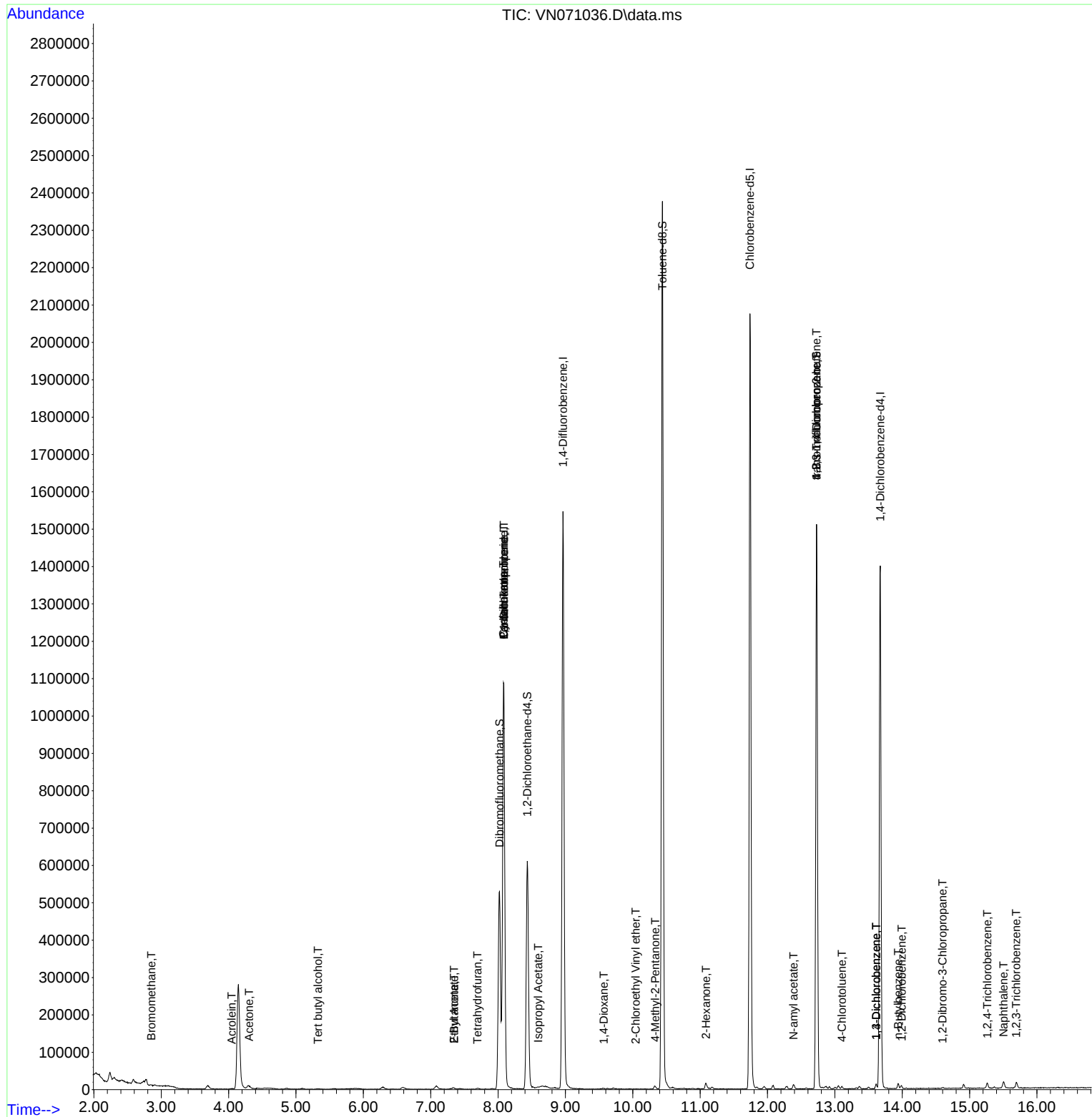
Internal Standards						
1) Pentafluorobenzene	8.086	168	860015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1364660	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1218956	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	405714	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	513457	52.265	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.540%			
35) Dibromofluoromethane	8.022	113	395012	48.665	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.320%			
50) Toluene-d8	10.439	98	1653506	50.725	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 101.460%			
62) 4-Bromofluorobenzene	12.727	95	543059	46.608	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 93.220%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.851	94	1953	0.306	ug/l	92
11) Tert butyl alcohol	5.328	59	834	0.466	ug/l #	71
13) Acrolein	4.045	56	1731	1.082	ug/l #	74
16) Acetone	4.304	43	12309	2.275	ug/l #	89
18) Methyl Acetate	4.869	43	4562	Below Cal	#	76
25) 2-Butanone	7.345	43	6231	0.866	ug/l #	79
29) Tetrahydrofuran	7.692	42	2227	0.478	ug/l #	62
31) Cyclohexane	8.081	56	17017	1.002	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	66232	4.980	ug/l #	50
37) Ethyl Acetate	7.345	43	6231	0.437	ug/l #	68
38) Carbon Tetrachloride	8.086	117	83969	6.408	ug/l #	15
43) Isopropyl Acetate	8.598	43	4944	0.220	ug/l #	55
49) 1,4-Dioxane	9.569	88	368	1.947	ug/l #	12
51) 4-Methyl-2-Pentanone	10.333	43	7318	0.535	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.045	63	56	31.816	ug/l #	45
59) 2-Hexanone	11.086	43	14013	1.490	ug/l	95
74) N-amyl acetate	12.386	43	7681	0.736	ug/l	95
76) 1,2,3-Trichloropropane	12.727	75	269572	28.220	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	269572	91.445	ug/l #	5
82) 4-Chlorotoluene	13.104	91	4544	0.210	ug/l	92
87) 1,3-Dichlorobenzene	13.615	146	3580	0.253	ug/l	98
88) 1,4-Dichlorobenzene	13.615	146	3580	0.258	ug/l	97
89) n-Butylbenzene	13.939	91	8270	0.373	ug/l	95
91) 1,2-Dichlorobenzene	13.992	146	4023	0.303	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.598	75	925	0.550	ug/l	68
93) 1,2,4-Trichlorobenzene	15.262	180	5522	2.709	ug/l	98
95) Naphthalene	15.504	128	18398	5.903	ug/l	99
96) 1,2,3-Trichlorobenzene	15.692	180	6233	3.376	ug/l	99

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

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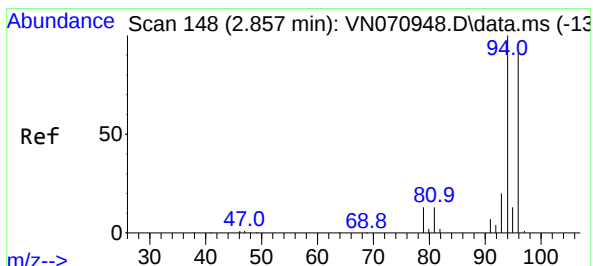
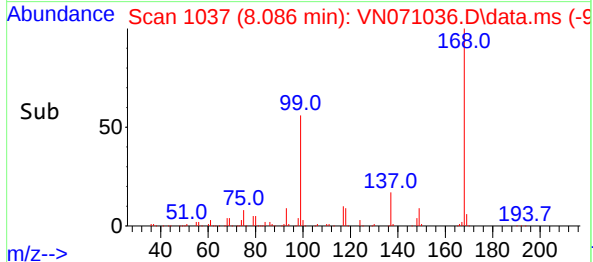
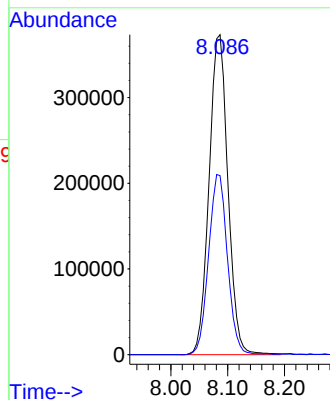
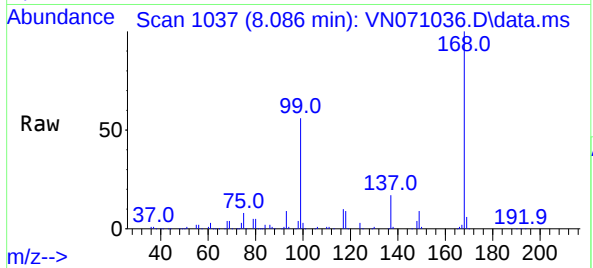




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

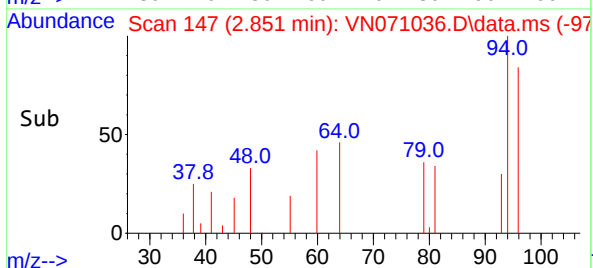
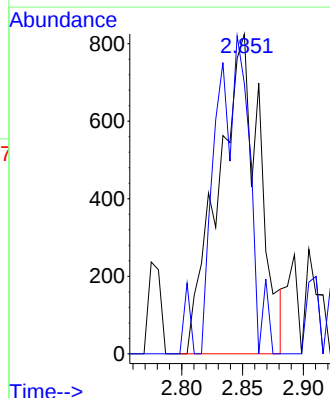
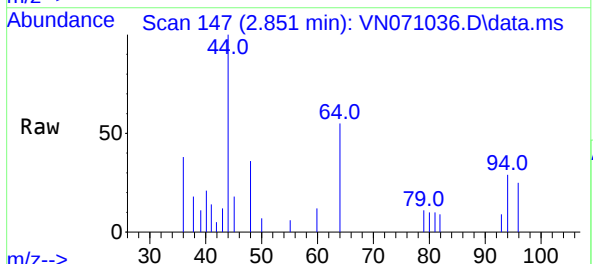
Instrument :
MSVOA_N
ClientSampleId :
30960

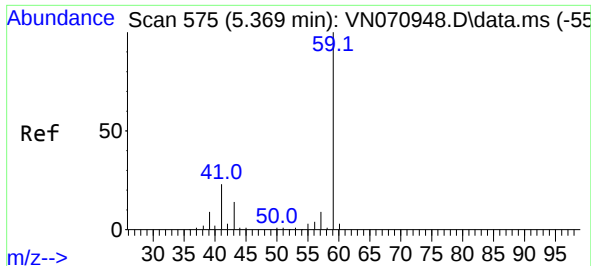
Tgt Ion:168 Resp: 860015
Ion Ratio Lower Upper
168 100
99 56.0 41.3 61.9



#5
Bromomethane
Concen: 0.306 ug/l
RT: 2.851 min Scan# 147
Delta R.T. -0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 94 Resp: 1953
Ion Ratio Lower Upper
94 100
96 84.5 73.8 110.8

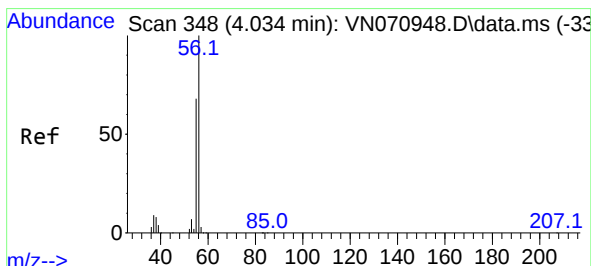
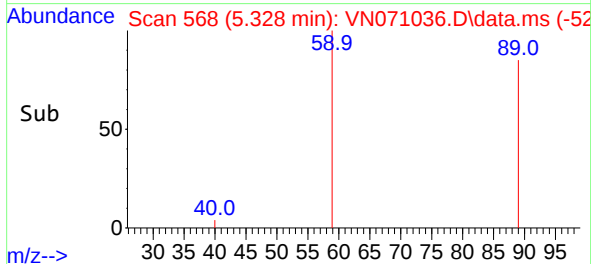
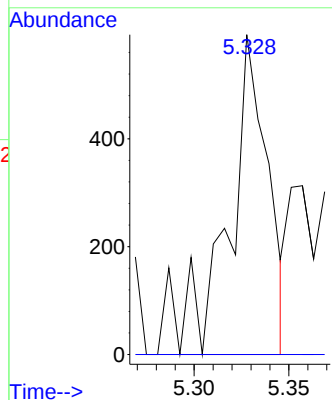
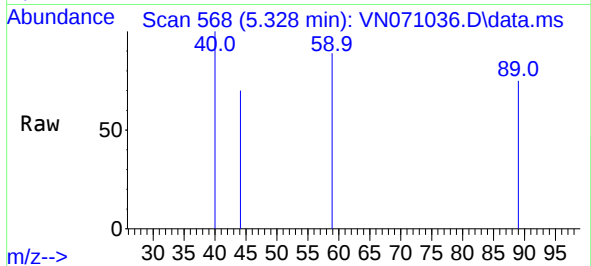




#11
Tert butyl alcohol
Concen: 0.466 ug/l
RT: 5.328 min Scan# 509
Delta R.T. -0.041 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

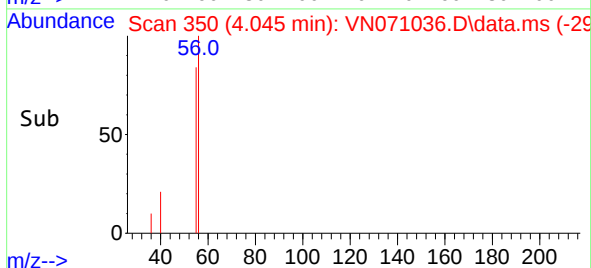
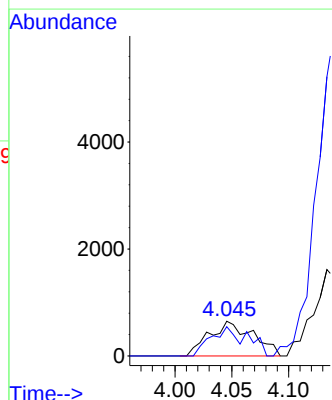
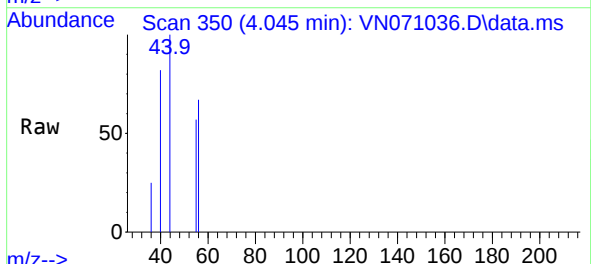
Instrument :
MSVOA_N
ClientSampleId :
30960

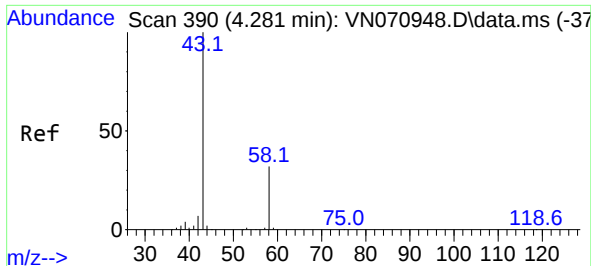
Tgt Ion: 59 Resp: 834
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 1.082 ug/l
RT: 4.045 min Scan# 350
Delta R.T. 0.011 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 56 Resp: 1731
Ion Ratio Lower Upper
56 100
55 48.9 56.6 85.0#

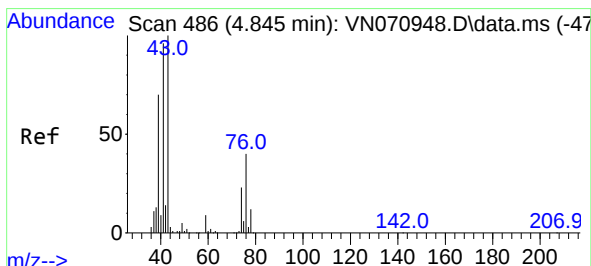
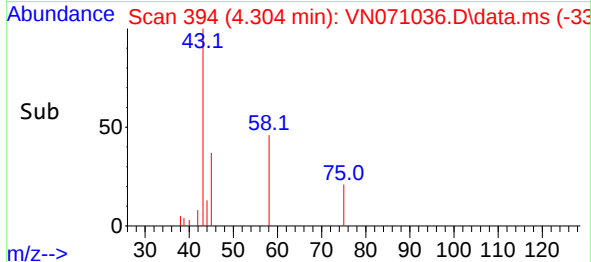
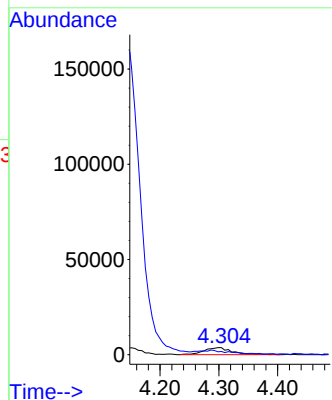
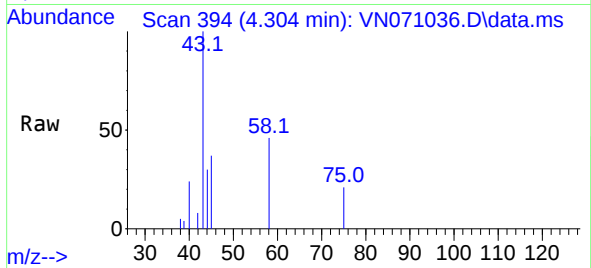




#16
Acetone
Concen: 2.275 ug/l
RT: 4.304 min Scan# 390
Delta R.T. 0.023 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

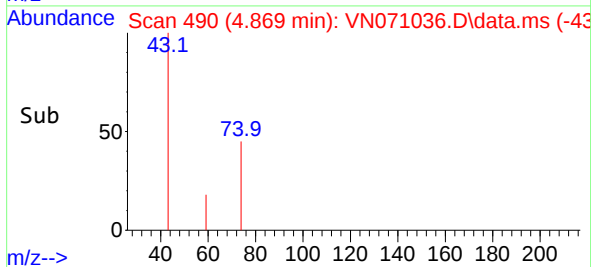
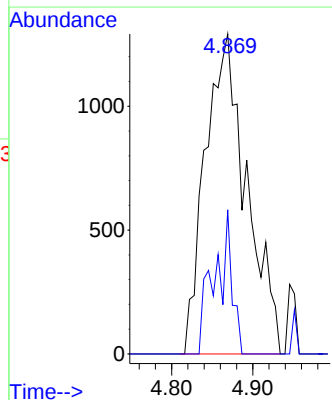
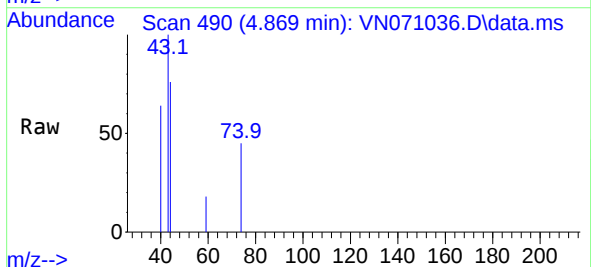
Instrument :
MSVOA_N
ClientSampleId :
30960

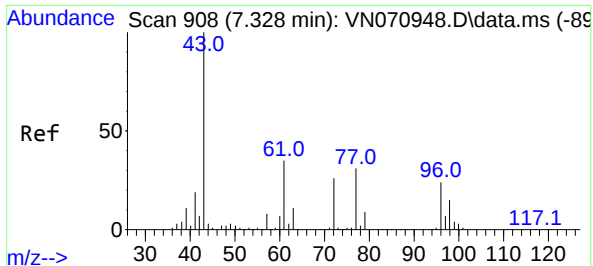
Tgt Ion: 43 Resp: 12309
Ion Ratio Lower Upper
43 100
58 35.0 23.1 34.7#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.869 min Scan# 490
Delta R.T. 0.024 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 43 Resp: 4562
Ion Ratio Lower Upper
43 100
74 12.2 19.4 29.2#





#25

2-Butanone

Concen: 0.866 ug/l

RT: 7.345 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

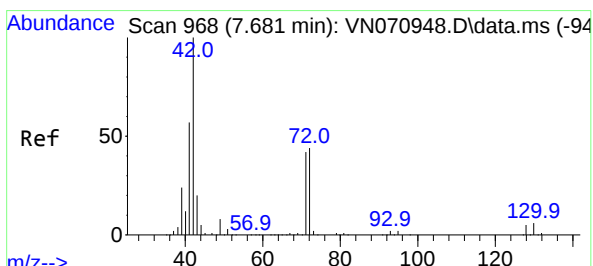
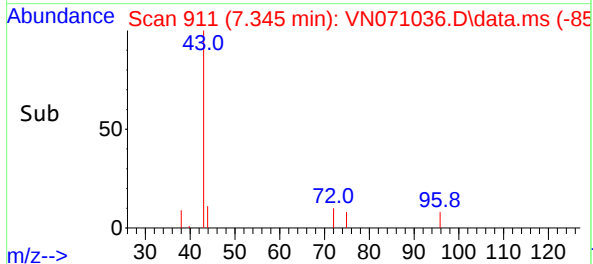
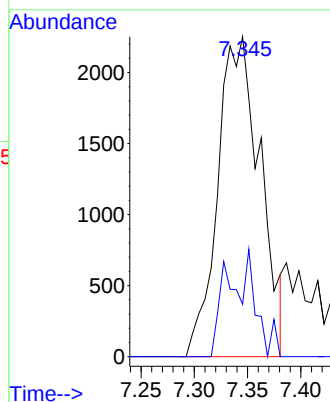
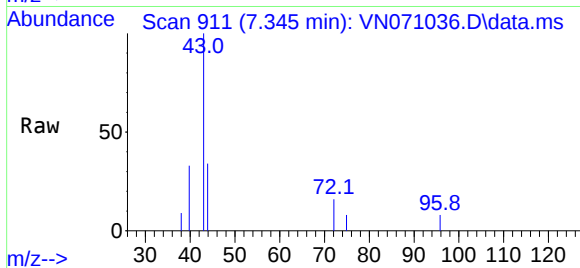
30960

Tgt Ion: 43 Resp: 6231

Ion Ratio Lower Upper

43 100

72 16.4 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.478 ug/l

RT: 7.692 min Scan# 970

Delta R.T. 0.012 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

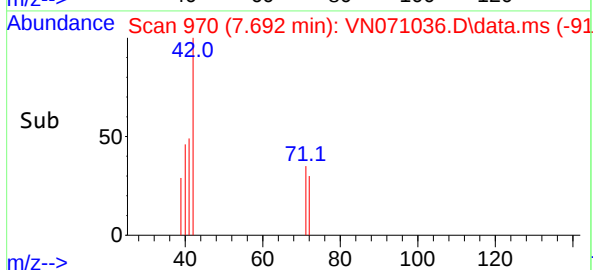
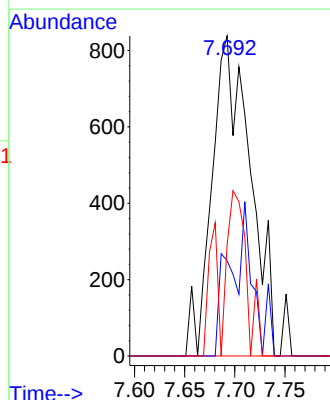
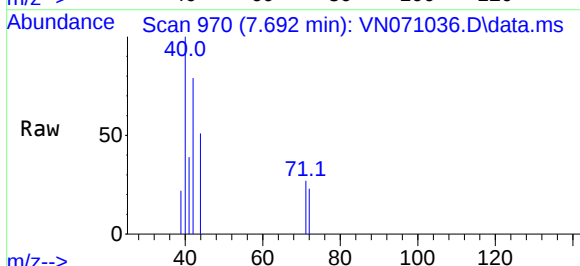
Tgt Ion: 42 Resp: 2227

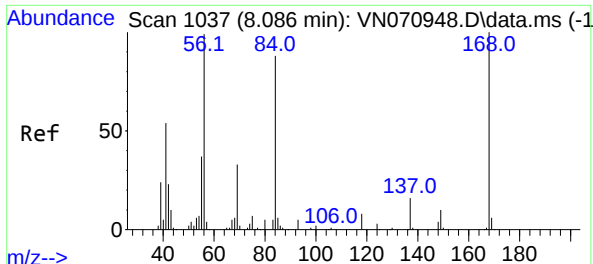
Ion Ratio Lower Upper

42 100

72 14.2 36.3 54.5#

71 26.0 34.7 52.1#





#31

Cyclohexane

Concen: 1.002 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

30960

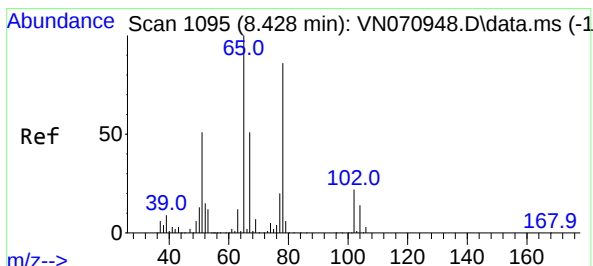
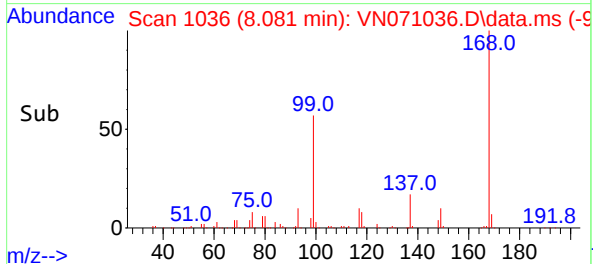
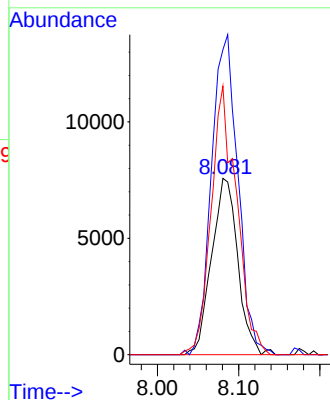
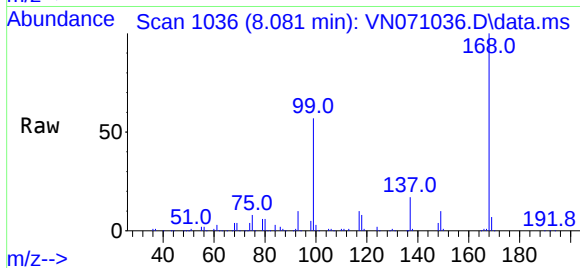
Tgt Ion: 56 Resp: 17017

Ion Ratio Lower Upper

56 100

69 173.0 27.1 40.7#

84 152.3 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 52.265 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. 0.006 min

Lab File: VN071036.D

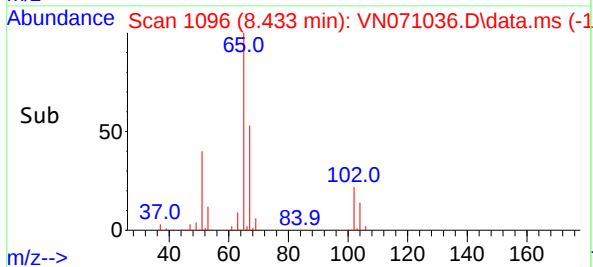
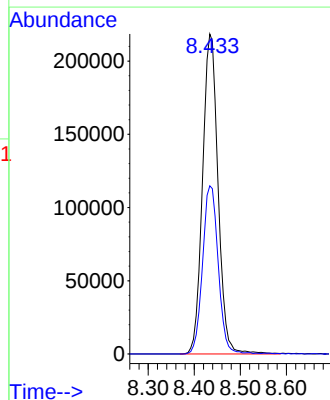
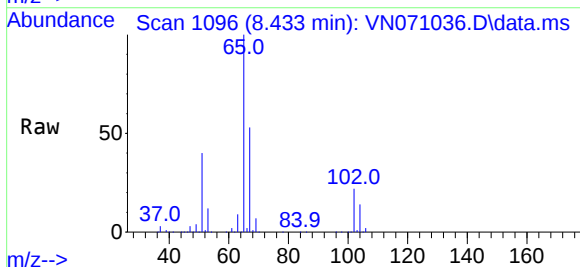
Acq: 23 Feb 2022 16:32

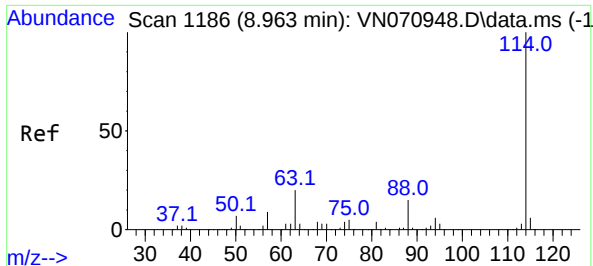
Tgt Ion: 65 Resp: 513457

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.0

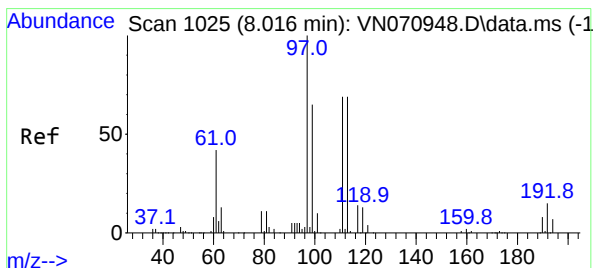
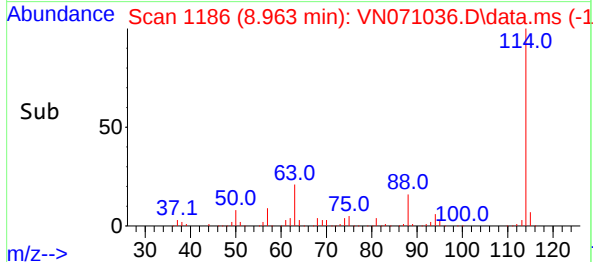
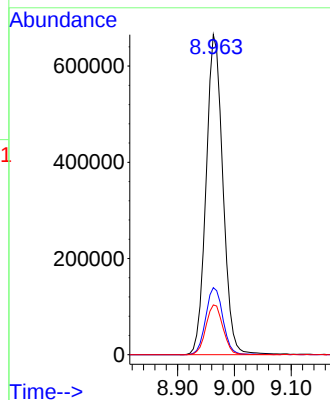
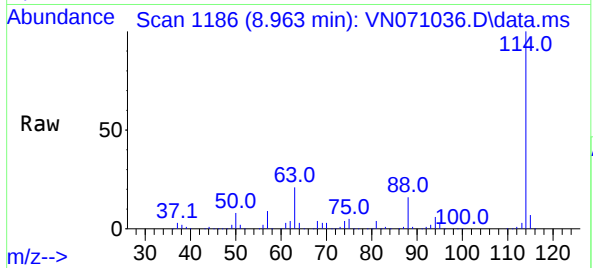




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

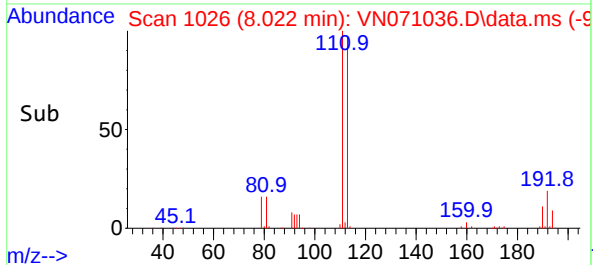
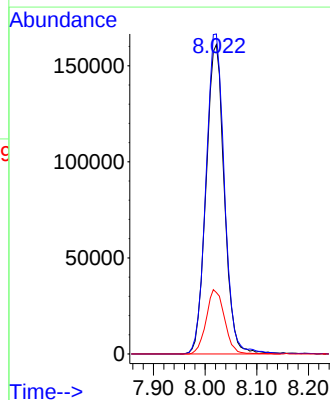
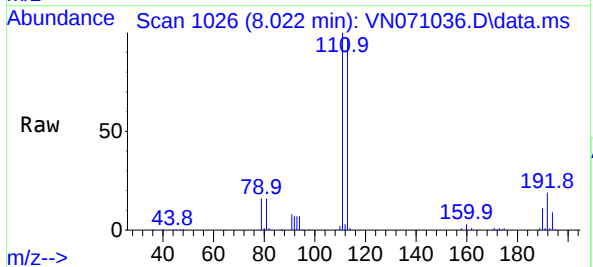
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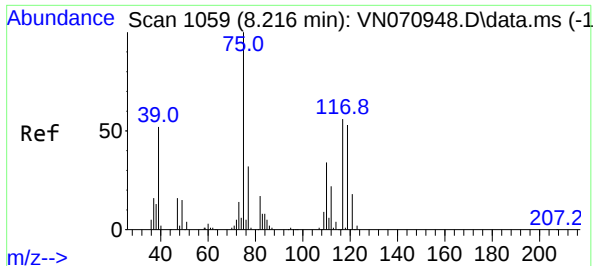
Tgt Ion:114 Resp: 1364660
Ion Ratio Lower Upper
114 100
63 21.0 0.0 37.8
88 15.5 0.0 27.4



#35
Dibromofluoromethane
Concen: 48.665 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion:113 Resp: 395012
Ion Ratio Lower Upper
113 100
111 104.2 82.2 123.2
192 21.0 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.980 ug/l

RT: 8.086 min Scan# 1

Delta R.T. -0.129 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

30960

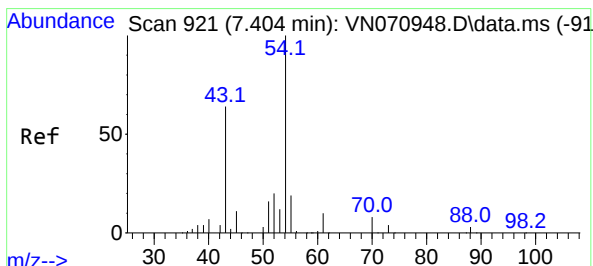
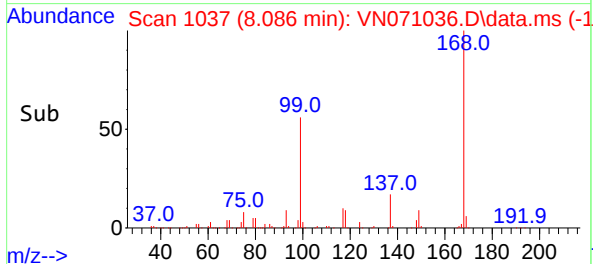
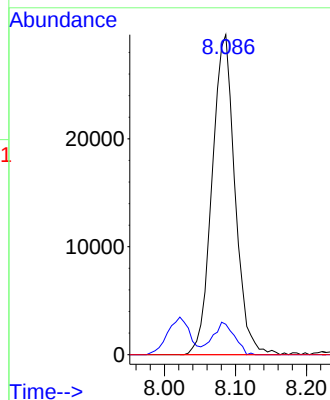
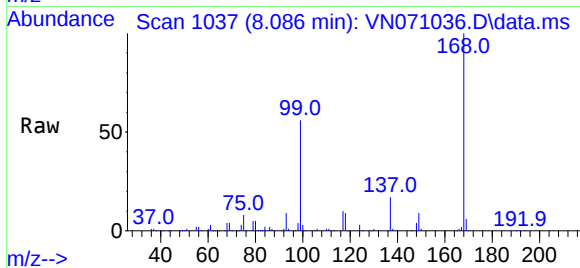
Tgt Ion: 75 Resp: 66232

Ion Ratio Lower Upper

75 100

110 9.6 18.4 55.2#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.437 ug/l

RT: 7.345 min Scan# 911

Delta R.T. -0.059 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

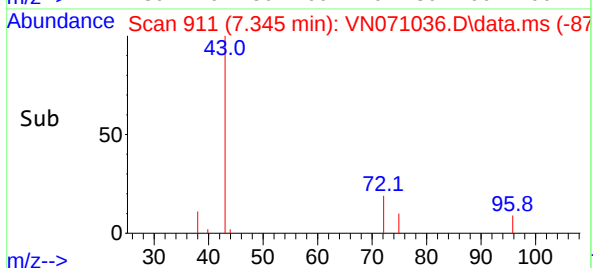
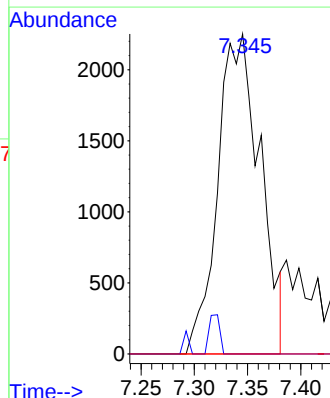
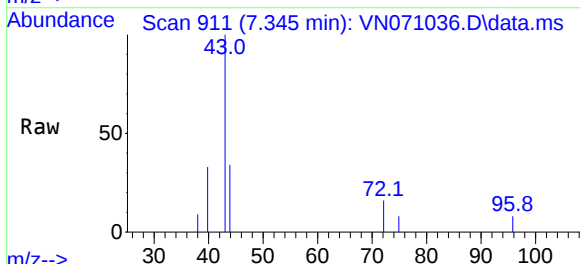
Tgt Ion: 43 Resp: 6231

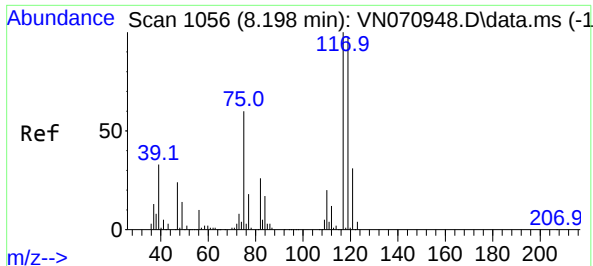
Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

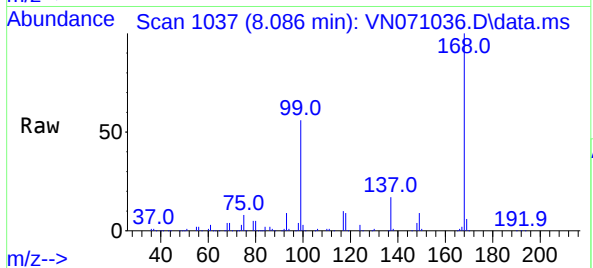
70 0.0 7.9 11.9#



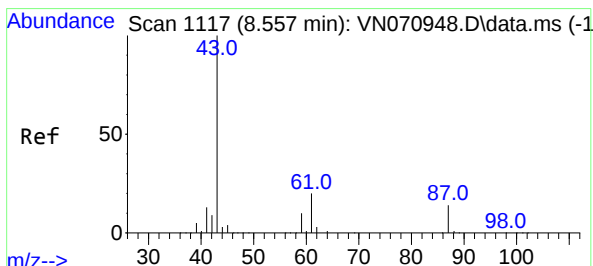
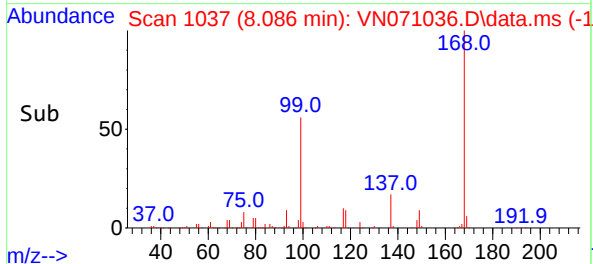
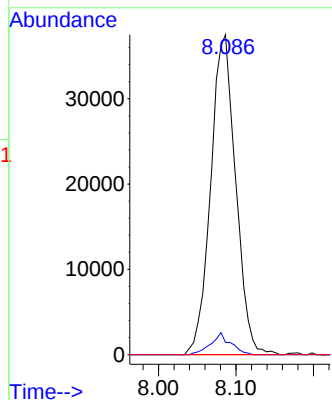


#38
Carbon Tetrachloride
Concen: 6.408 ug/l
RT: 8.086 min Scan# 110
Delta R.T. -0.112 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Instrument :
MSVOA_N
ClientSampleId :
30960

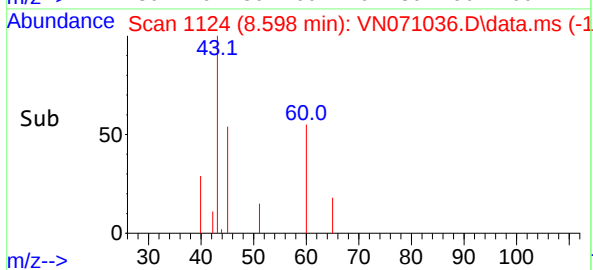
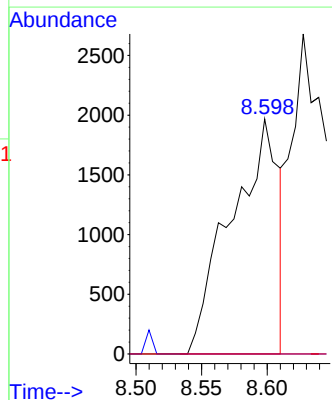
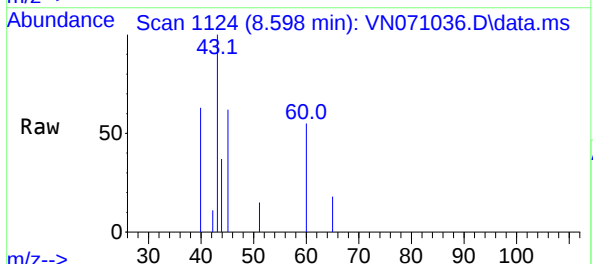


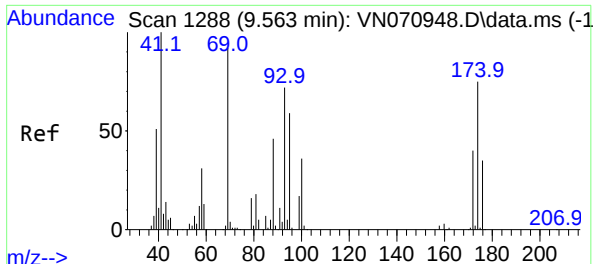
Tgt Ion:117 Resp: 83969
Ion Ratio Lower Upper
117 100
119 3.9 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 0.220 ug/l
RT: 8.598 min Scan# 1124
Delta R.T. 0.041 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 43 Resp: 4944
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

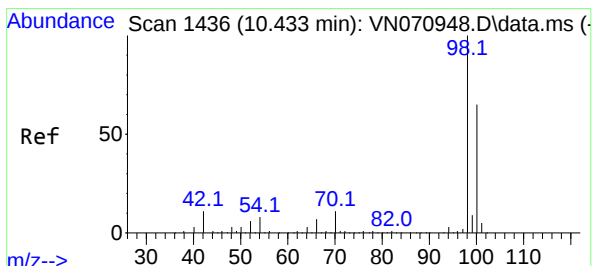
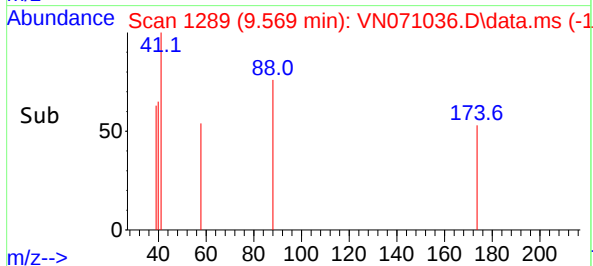
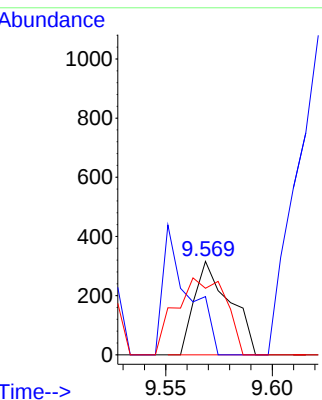
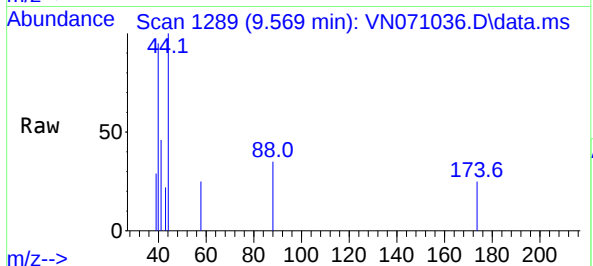




#49
1,4-Dioxane
Concen: 1.947 ug/l
RT: 9.569 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

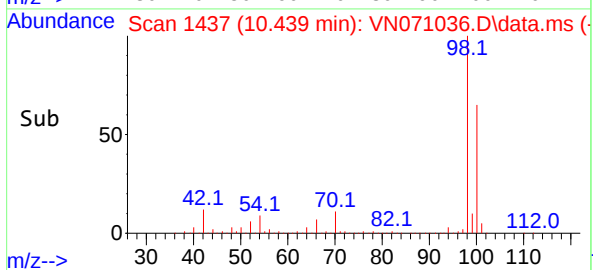
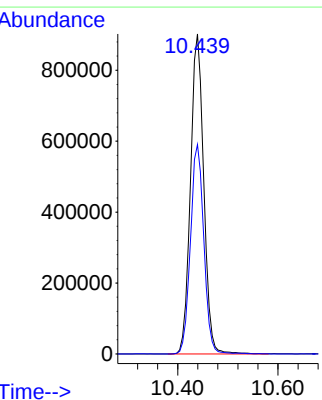
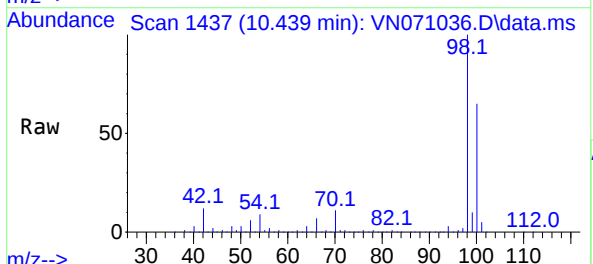
Instrument :
MSVOA_N
ClientSampleId :
30960

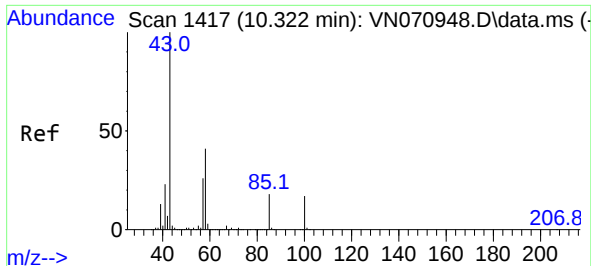
Tgt Ion: 88 Resp: 368
Ion Ratio Lower Upper
88 100
43 99.7 23.4 35.2#
58 115.5 50.6 75.8#



#50
Toluene-d8
Concen: 50.725 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 98 Resp: 1653506
Ion Ratio Lower Upper
98 100
100 66.1 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.535 ug/l

RT: 10.333 min Scan# 1417

Delta R.T. 0.012 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

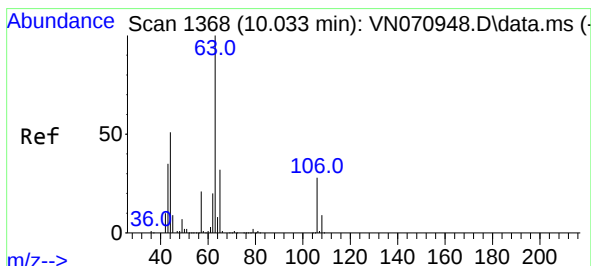
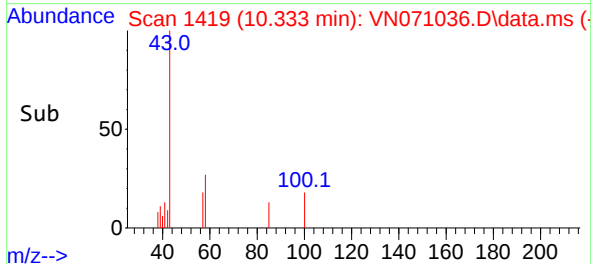
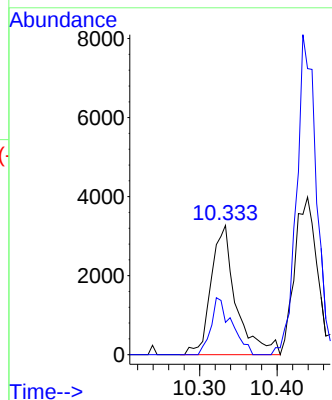
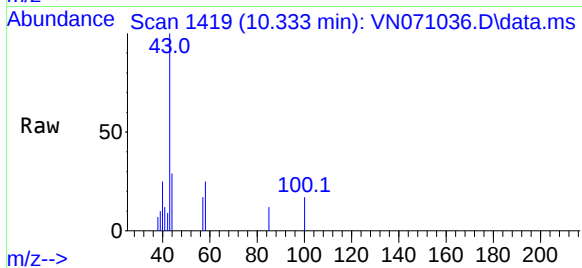
30960

Tgt Ion: 43 Resp: 7318

Ion Ratio Lower Upper

43 100

58 36.5 30.4 45.6



#58

2-Chloroethyl Vinyl ether

Concen: 31.816 ug/l

RT: 10.045 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VN071036.D

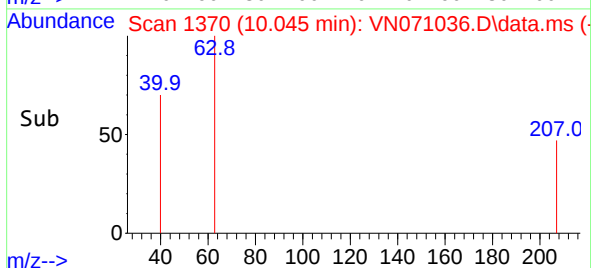
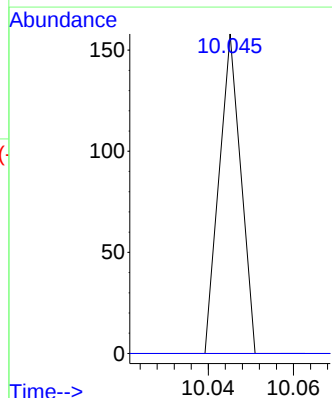
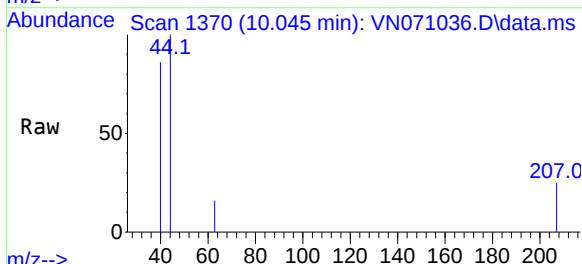
Acq: 23 Feb 2022 16:32

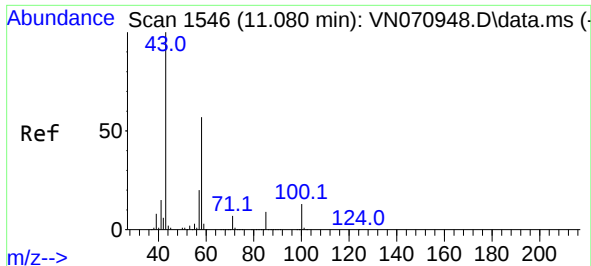
Tgt Ion: 63 Resp: 56

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

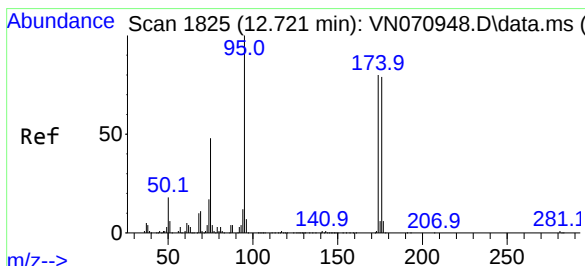
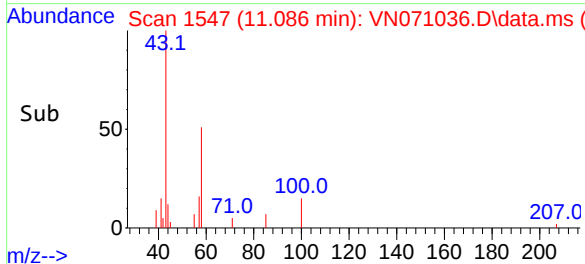
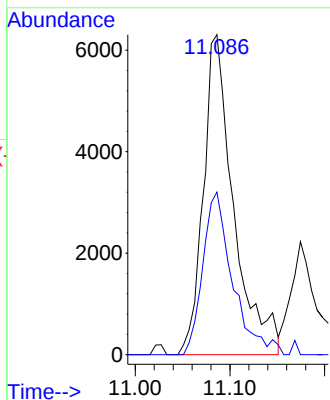
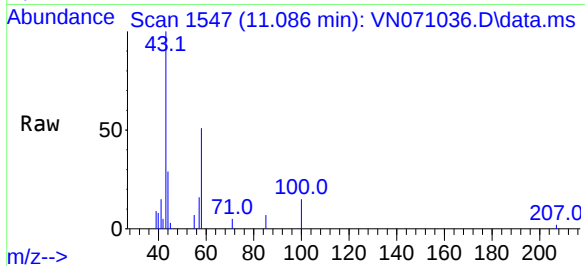




#59
2-Hexanone
Concen: 1.490 ug/l
RT: 11.086 min Scan# 11013
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

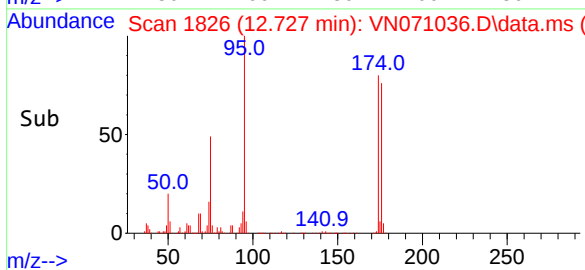
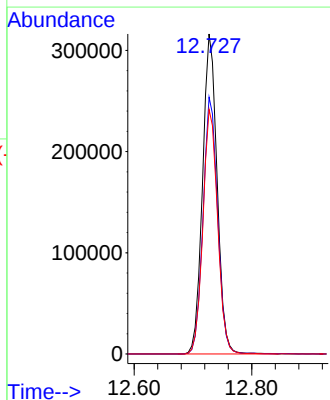
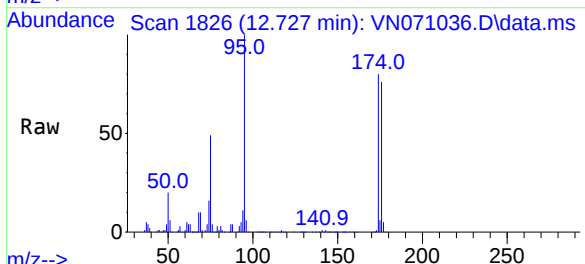
Instrument :
MSVOA_N
ClientSampleId :
30960

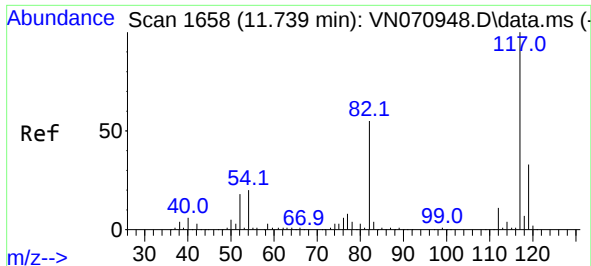
Tgt Ion: 43 Resp: 14013
Ion Ratio Lower Upper
43 100
58 50.0 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 46.608 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 95 Resp: 543059
Ion Ratio Lower Upper
95 100
174 80.4 0.0 187.2
176 77.2 0.0 181.4

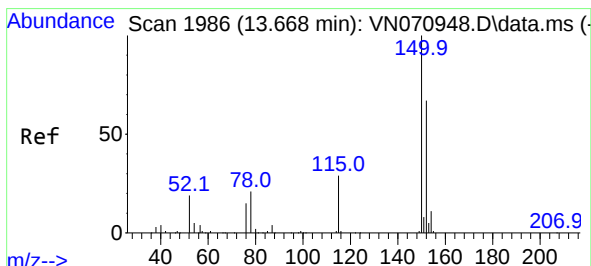
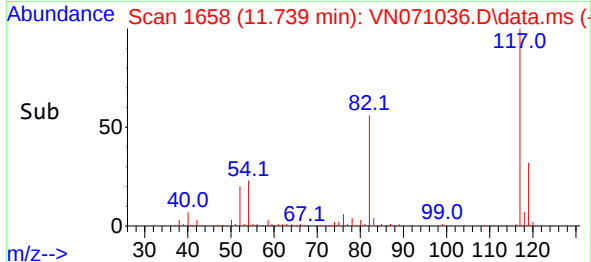
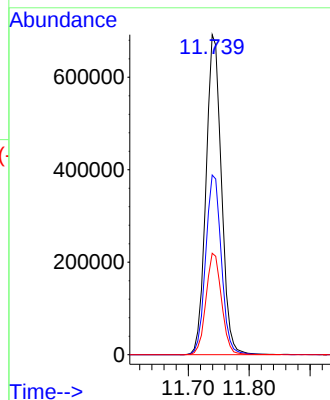
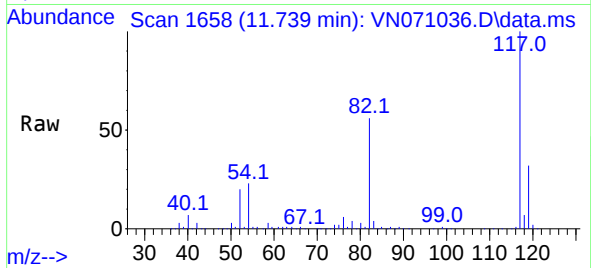




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

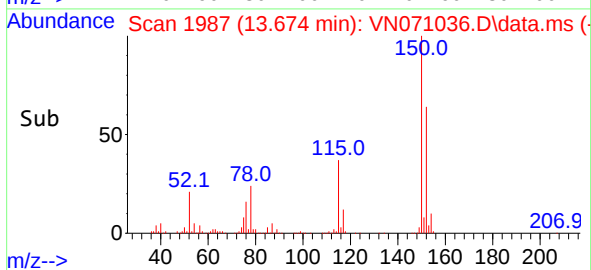
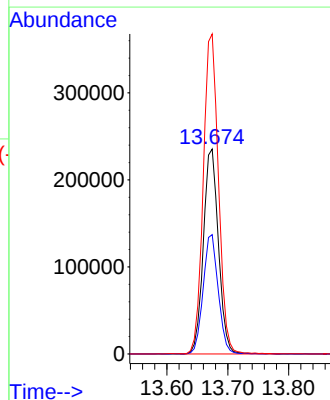
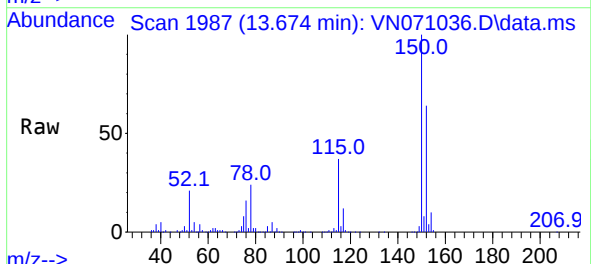
Instrument :
MSVOA_N
ClientSampleId :
30960

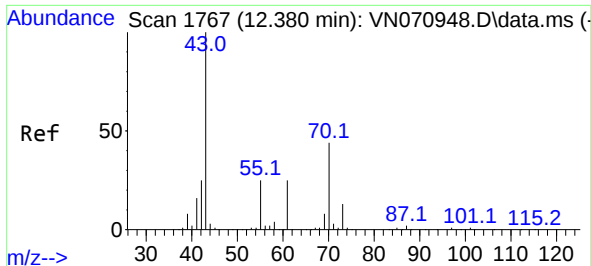
Tgt Ion:117 Resp: 1218956
Ion Ratio Lower Upper
117 100
82 56.2 42.4 63.6
119 31.7 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion:152 Resp: 405714
Ion Ratio Lower Upper
152 100
115 58.3 27.5 82.5
150 157.2 0.0 344.4

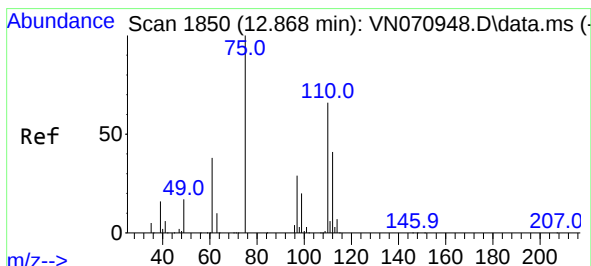
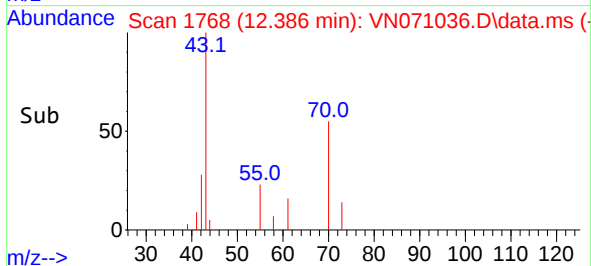
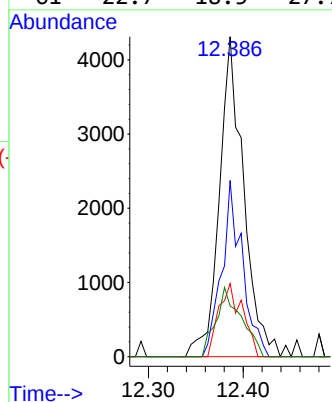
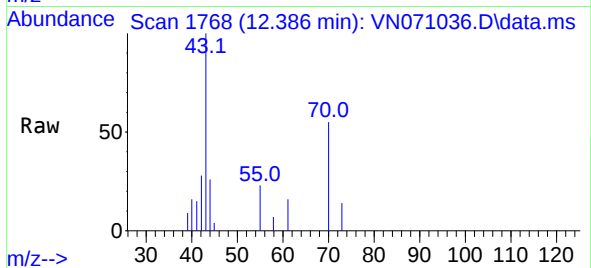




#74
N-amy1 acetate
Concen: 0.736 ug/l
RT: 12.386 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

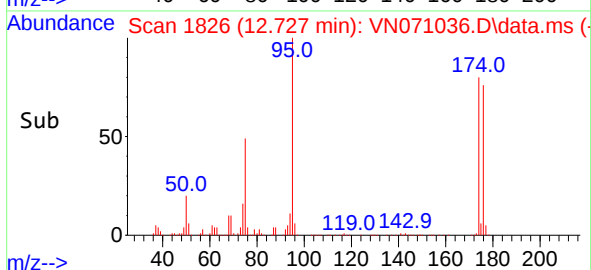
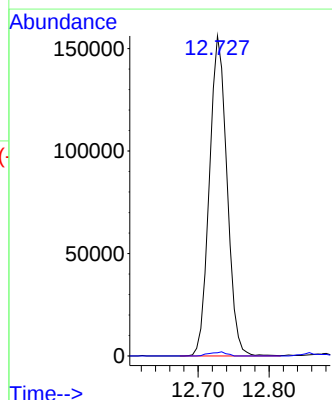
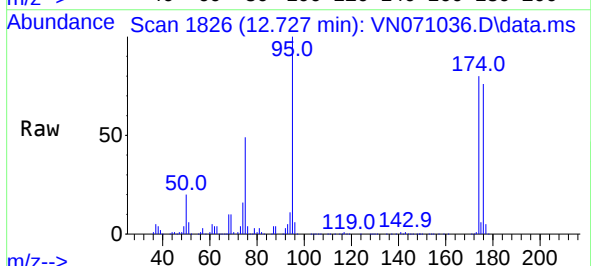
Instrument :
MSVOA_N
ClientSampleId :
30960

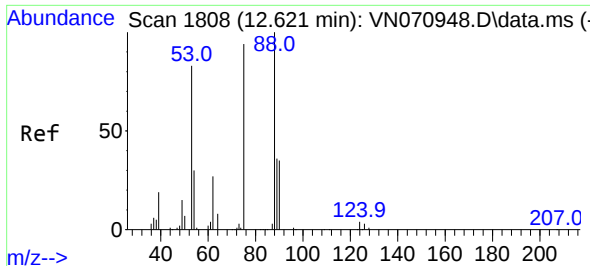
Tgt Ion: 43	Resp: 7681
Ion Ratio	Lower Upper
43 100	
70 46.8	33.4 50.0
55 22.3	19.3 28.9
61 22.7	18.5 27.7



#76
1,2,3-Trichloropropane
Concen: 28.220 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 75	Resp: 269572
Ion Ratio	Lower Upper
75 100	
77 1.2	82.6 247.8#

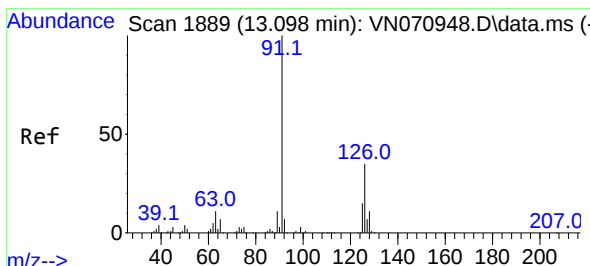
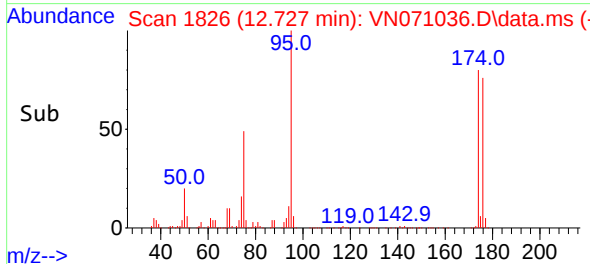
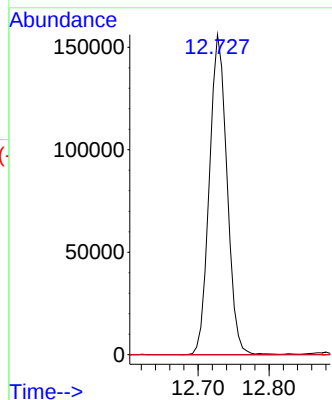
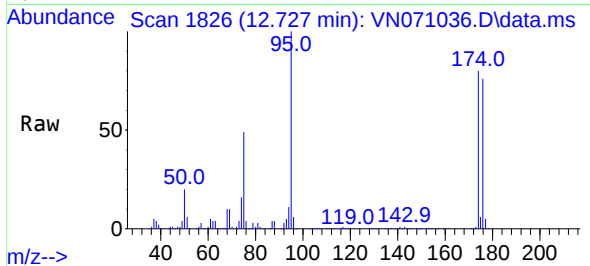




#81
trans-1,4-Dichloro-2-butene
Concen: 91.445 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

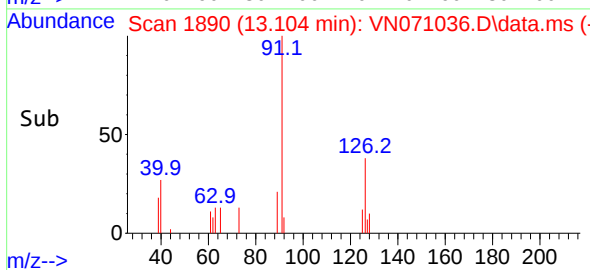
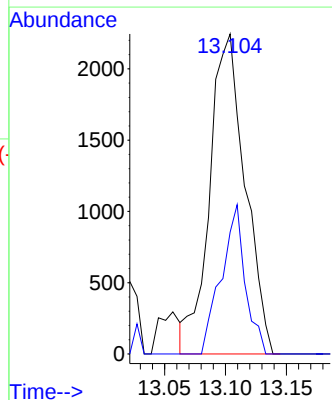
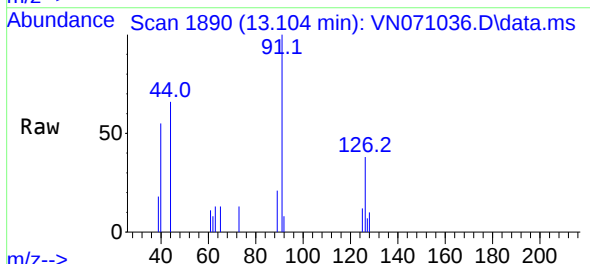
Instrument :
MSVOA_N
ClientSampleId :
30960

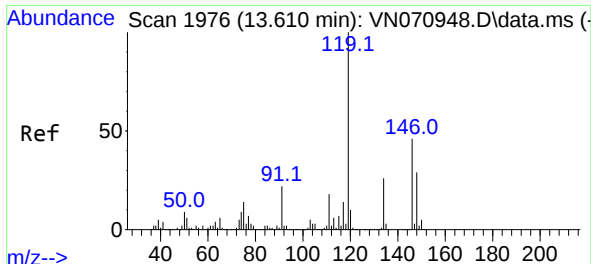
Tgt Ion: 75 Resp: 269572
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#82
4-Chlorotoluene
Concen: 0.210 ug/l
RT: 13.104 min Scan# 1890
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion: 91 Resp: 4544
Ion Ratio Lower Upper
91 100
126 31.6 18.2 54.6





#87

1,3-Dichlorobenzene

Concen: 0.253 ug/l

RT: 13.615 min Scan# 1976

Delta R.T. 0.006 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

30960

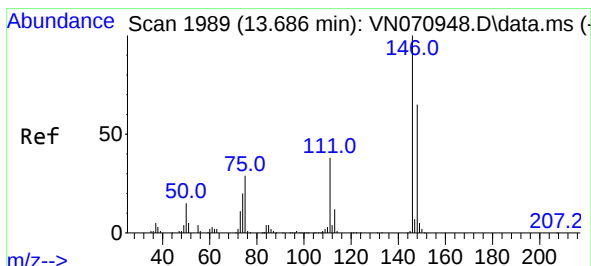
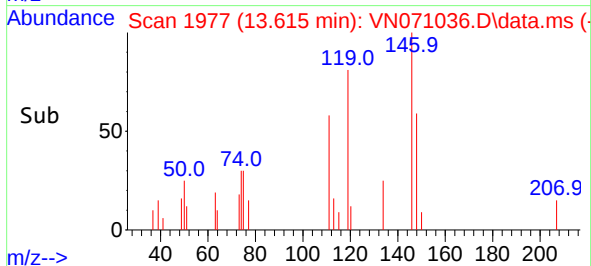
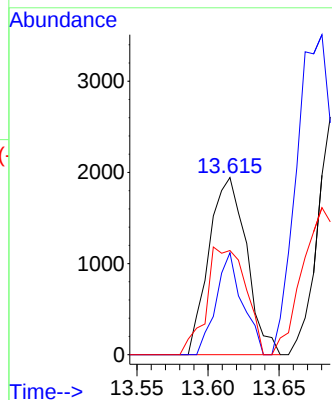
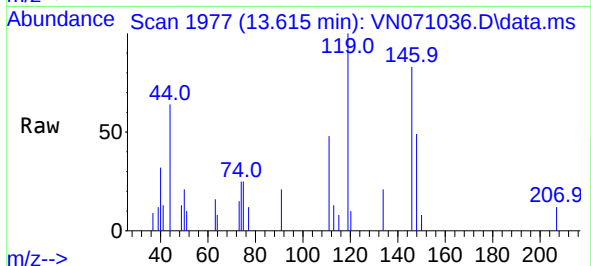
Tgt Ion:146 Resp: 3580

Ion Ratio Lower Upper

146 100

111 40.5 18.6 55.6

148 63.2 31.6 95.0



#88

1,4-Dichlorobenzene

Concen: 0.258 ug/l

RT: 13.615 min Scan# 1977

Delta R.T. -0.071 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

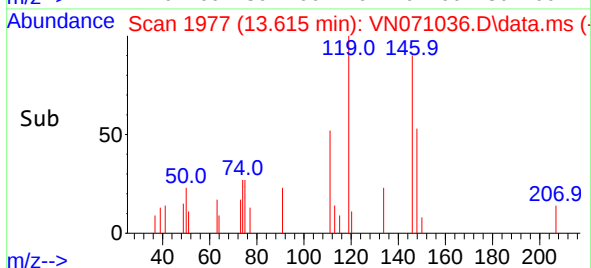
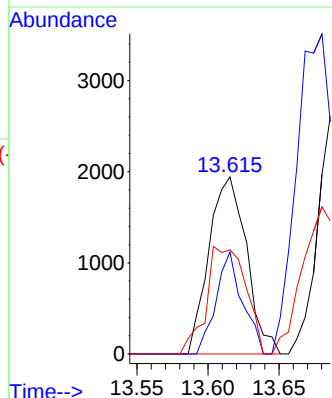
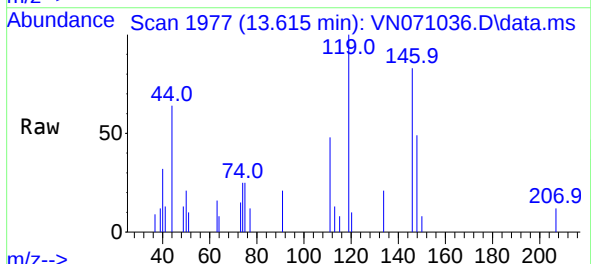
Tgt Ion:146 Resp: 3580

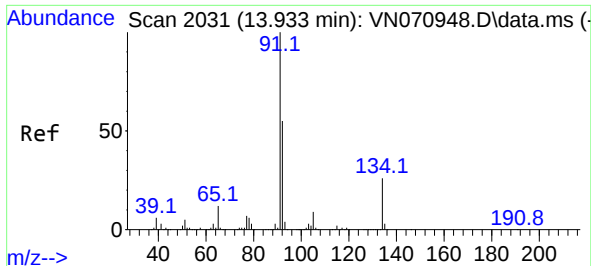
Ion Ratio Lower Upper

146 100

111 40.5 18.3 54.8

148 63.2 31.8 95.4





#89

n-Butylbenzene

Concen: 0.373 ug/l

RT: 13.939 min Scan# 2031

Delta R.T. 0.006 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

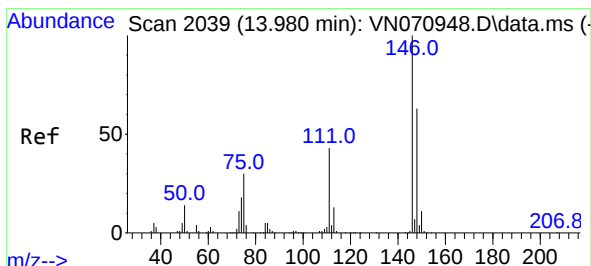
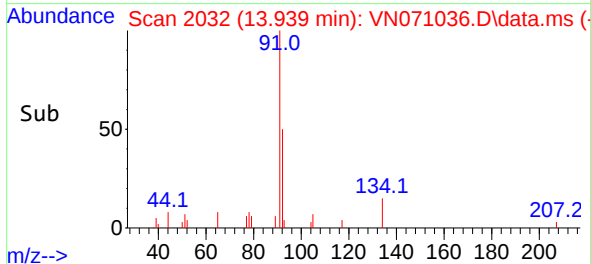
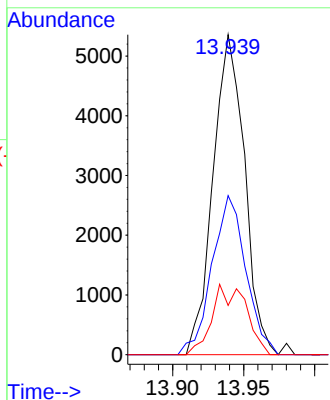
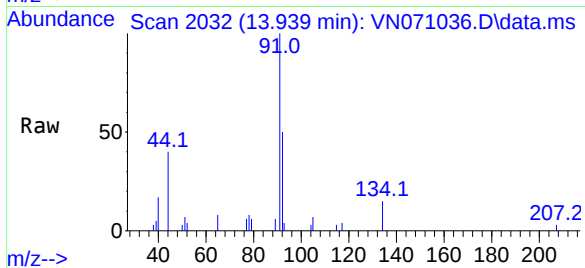
Instrument :

MSVOA_N

ClientSampleId :

30960

Tgt Ion: 91	Resp:	8270
Ion	Ratio	Lower Upper
91	100	
92	53.5	25.4 76.0
134	23.7	13.6 40.8



#91

1,2-Dichlorobenzene

Concen: 0.303 ug/l

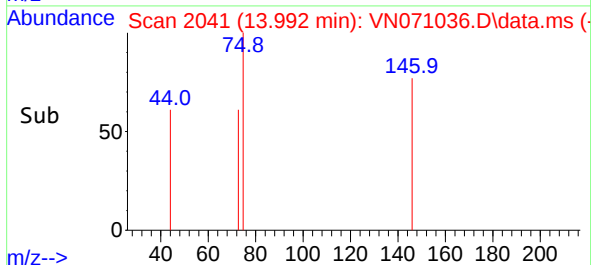
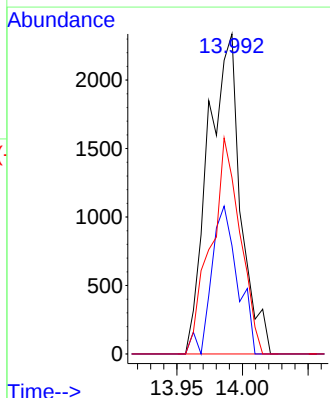
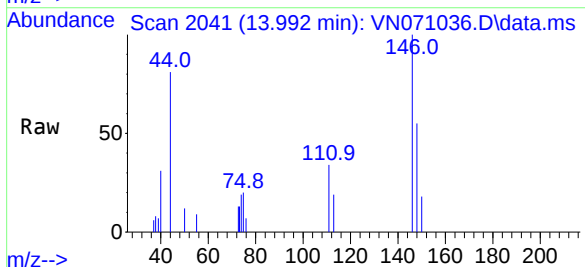
RT: 13.992 min Scan# 2041

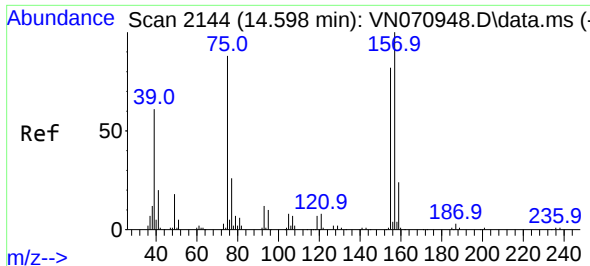
Delta R.T. 0.012 min

Lab File: VN071036.D

Acq: 23 Feb 2022 16:32

Tgt Ion: 146	Resp:	4023
Ion	Ratio	Lower Upper
146	100	
111	37.2	19.1 57.3
148	60.8	32.1 96.3

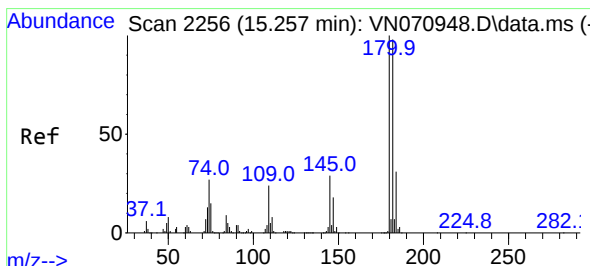
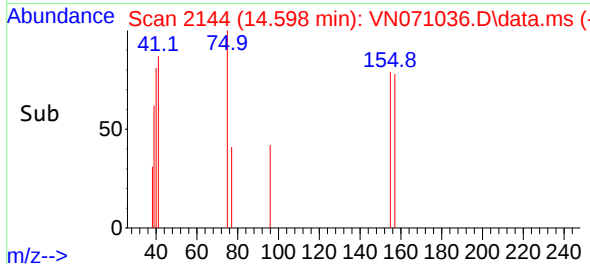
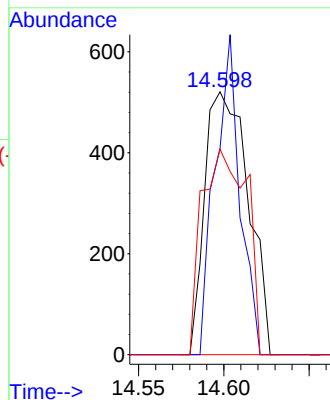
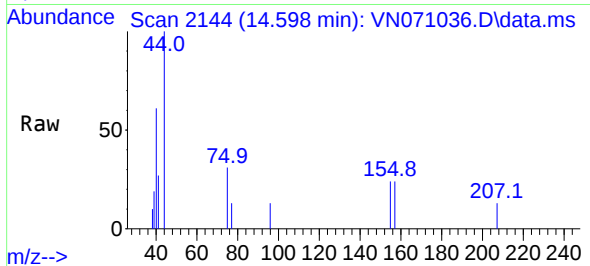




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.550 ug/l
 RT: 14.598 min Scan# 2144
 Delta R.T. -0.000 min
 Lab File: VN071036.D
 Acq: 23 Feb 2022 16:32

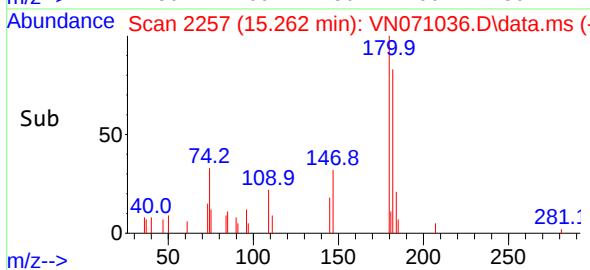
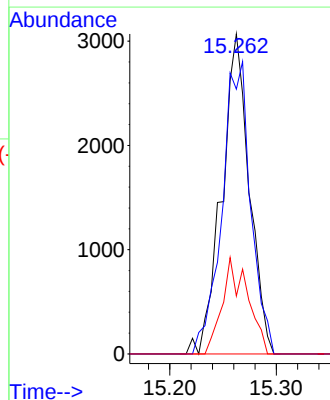
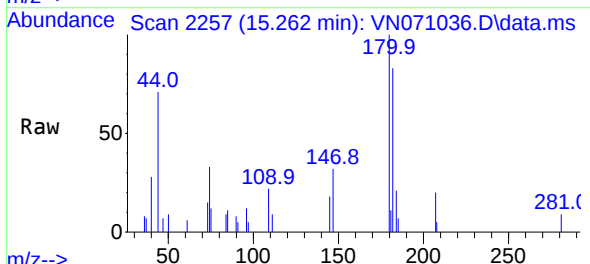
Instrument :
 MSVOA_N
 ClientSampleId :
 30960

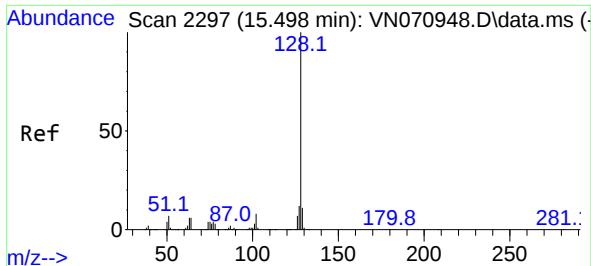
Tgt Ion: 75 Resp: 925
 Ion Ratio Lower Upper
 75 100
 155 69.2 46.9 140.7
 157 80.5 60.6 181.7



#93
 1,2,4-Trichlorobenzene
 Concen: 2.709 ug/l
 RT: 15.262 min Scan# 2257
 Delta R.T. 0.005 min
 Lab File: VN071036.D
 Acq: 23 Feb 2022 16:32

Tgt Ion: 180 Resp: 5522
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.3 144.9
 145 27.9 14.5 43.5

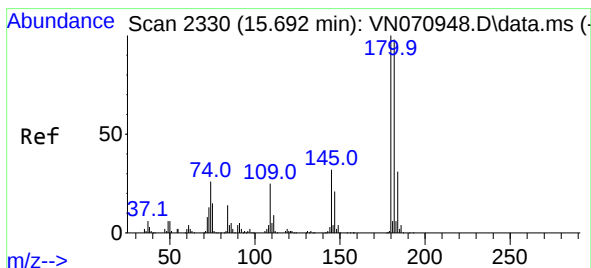
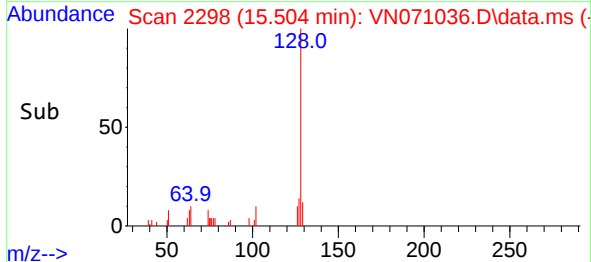
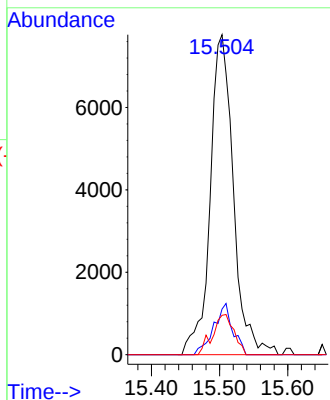
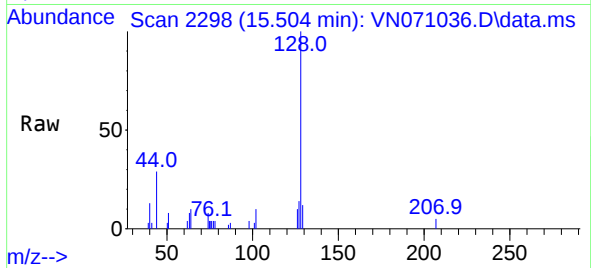




#95
Naphthalene
Concen: 5.903 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Instrument :
MSVOA_N
ClientSampleId :
30960

Tgt Ion:	128	Resp:	18398
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.5	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.376 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN071036.D
Acq: 23 Feb 2022 16:32

Tgt Ion:	180	Resp:	6233
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.4	142.2
145	29.5	15.0	45.1

