

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031622\
 Data File : VN071311.D
 Acq On : 16 Mar 2022 11:05
 Operator : JC\MD
 Sample : VN0316MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316MBL01

Quant Time: Mar 16 15:45:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

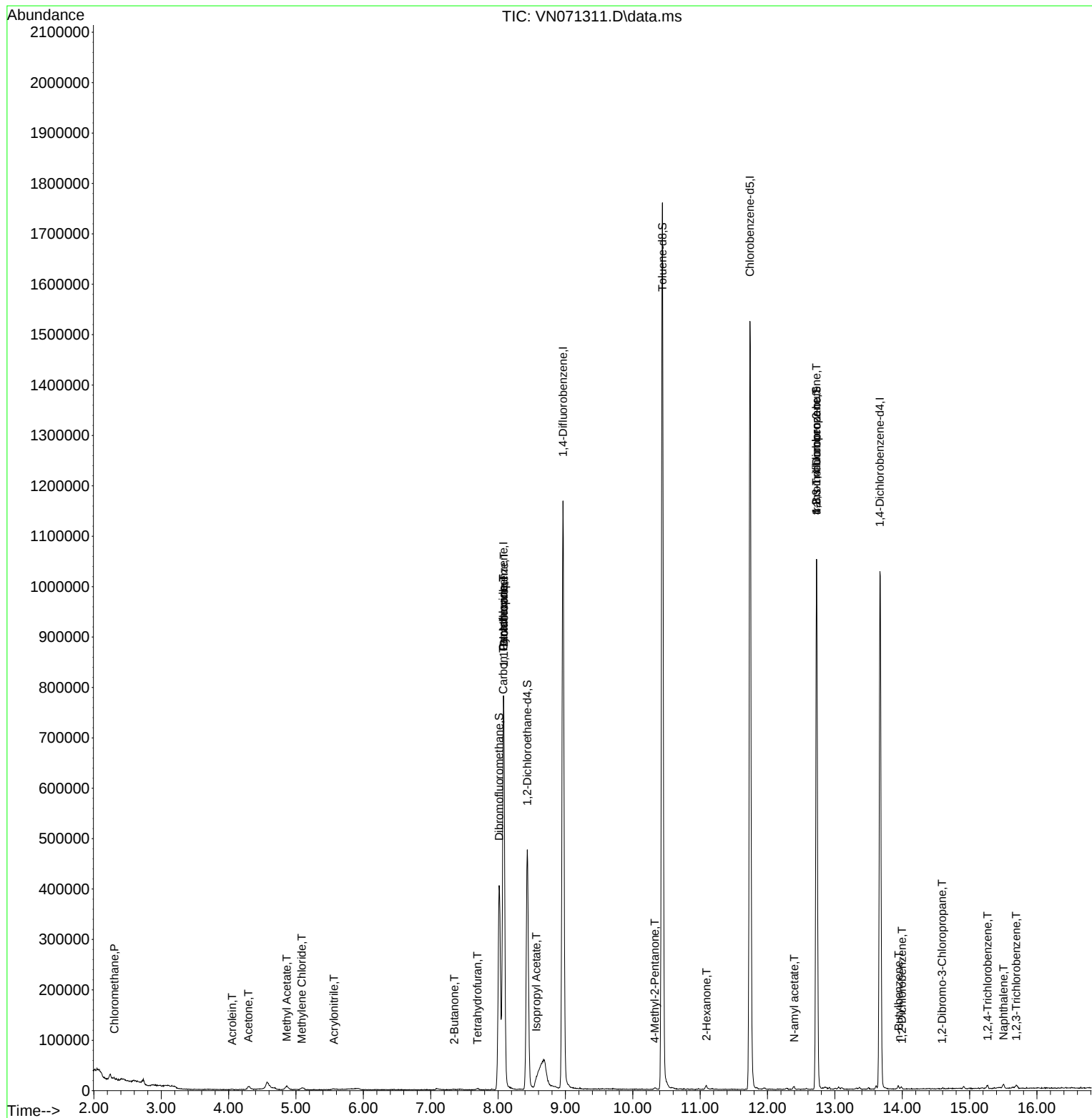
Internal Standards						
1) Pentafluorobenzene	8.081	168	602261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1010032	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	903246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	293857	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	398239	48.247	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.500%		
35) Dibromofluoromethane	8.016	113	303074	47.551	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.100%		
50) Toluene-d8	10.440	98	1216851	47.418	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	94.840%		
62) 4-Bromofluorobenzene	12.728	95	369456	42.516	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	85.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.305	50	2751	0.276	ug/l #	88
5) Bromomethane	2.864	94	931	Below Cal	#	26
13) Acrolein	4.052	56	771	0.449	ug/l #	68
15) Acrylonitrile	5.563	53	1321	0.274	ug/l #	85
16) Acetone	4.293	43	12530	3.120	ug/l	99
18) Methyl Acetate	4.863	43	16259	1.963	ug/l #	88
20) Methylene Chloride	5.087	84	3256	0.822	ug/l #	90
25) 2-Butanone	7.351	43	2270	0.351	ug/l #	48
29) Tetrahydrofuran	7.693	42	1674	0.373	ug/l #	49
31) Cyclohexane	8.081	56	12661	0.961	ug/l #	1
36) 1,1-Dichloropropene	8.087	75	47615	4.663	ug/l #	49
38) Carbon Tetrachloride	8.075	117	60391	6.114	ug/l #	16
43) Isopropyl Acetate	8.569	43	15219	0.724	ug/l #	55
51) 4-Methyl-2-Pentanone	10.328	43	3517	0.270	ug/l #	83
59) 2-Hexanone	11.092	43	7233	0.813	ug/l	88
74) N-amyl acetate	12.398	43	4057	0.381	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.816	83	1105	Below Cal	#	83
76) 1,2,3-Trichloropropane	12.728	75	189761	25.247	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.728	75	189761	69.806	ug/l #	5
89) n-Butylbenzene	13.945	91	4130	0.257	ug/l	95
91) 1,2-Dichlorobenzene	13.998	146	2100	0.204	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.592	75	527	0.320	ug/l #	38
93) 1,2,4-Trichlorobenzene	15.269	180	2851	3.546	ug/l	90
95) Naphthalene	15.504	128	9142	5.677	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.692	180	3534	3.456	ug/l	84

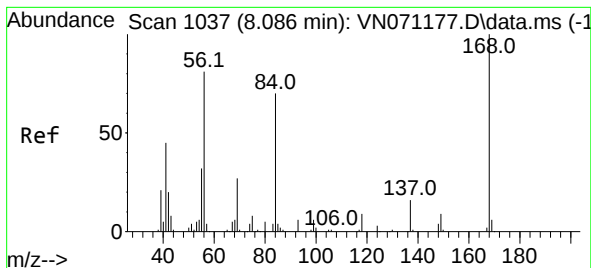
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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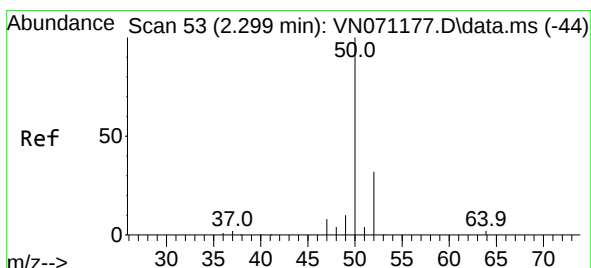
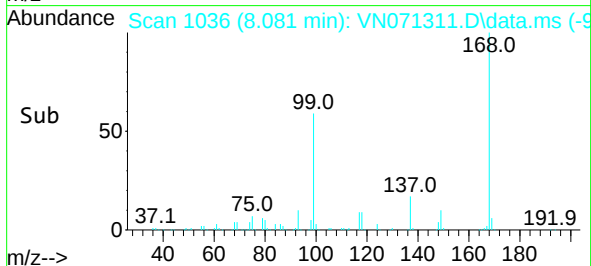
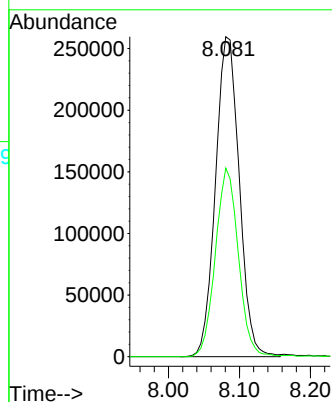
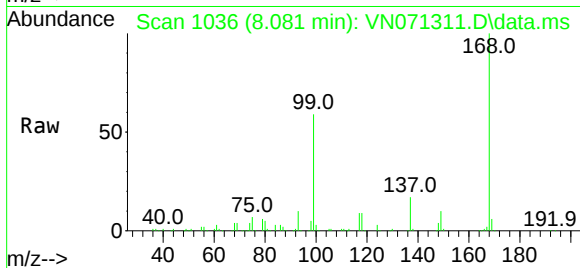




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

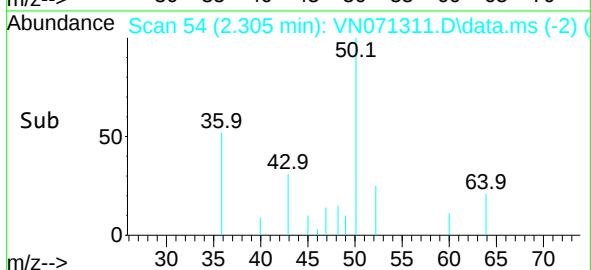
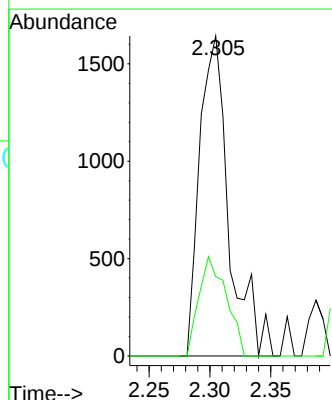
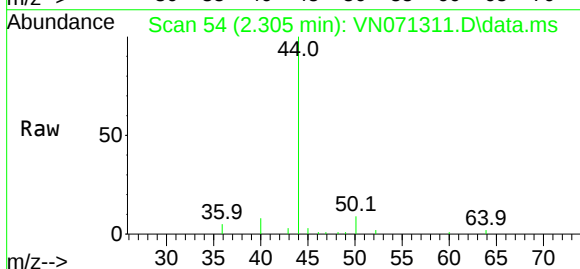
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

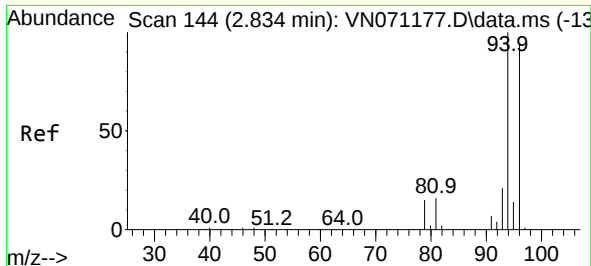
Tgt Ion:168 Resp: 602261
Ion Ratio Lower Upper
168 100
99 59.0 41.3 61.9



#3
Chloromethane
Concen: 0.276 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 50 Resp: 2751
Ion Ratio Lower Upper
50 100
52 24.8 25.4 38.0#

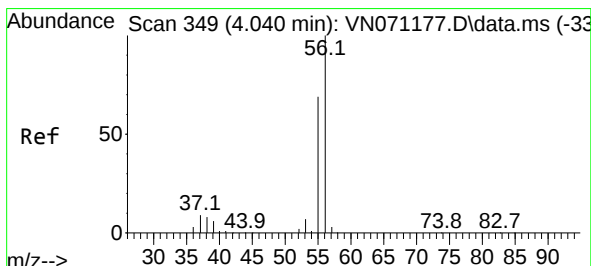
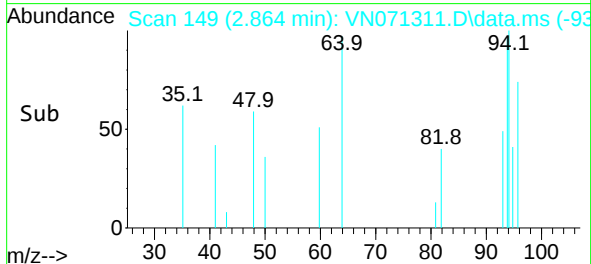
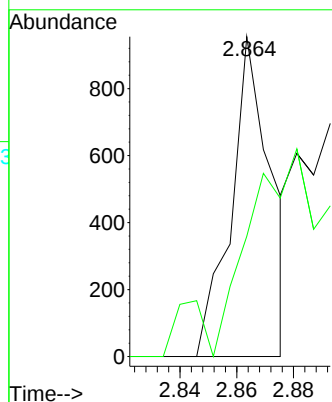
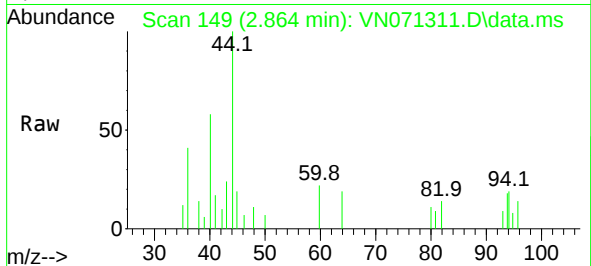




#5
Bromomethane
Concen: Below Cal
RT: 2.864 min Scan# 14
Delta R.T. 0.030 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

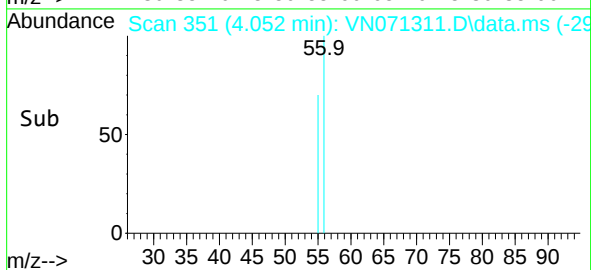
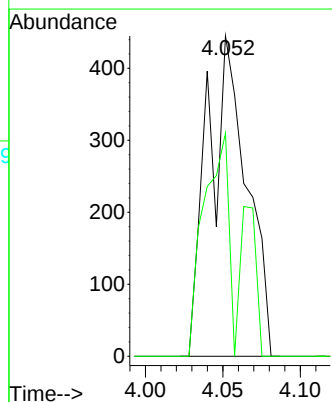
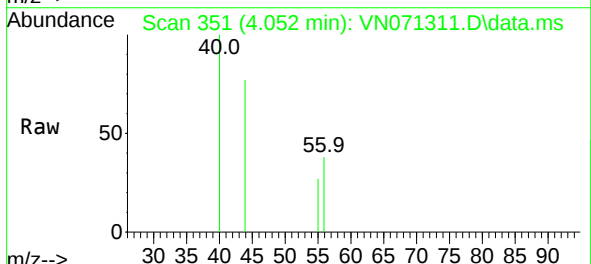
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

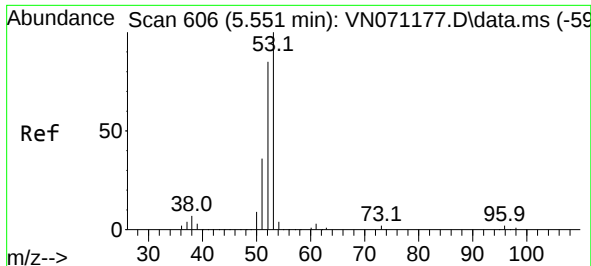
Tgt Ion: 94 Resp: 931
Ion Ratio Lower Upper
94 100
96 21.3 73.8 110.8#



#13
Acrolein
Concen: 0.449 ug/l
RT: 4.052 min Scan# 351
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 56 Resp: 771
Ion Ratio Lower Upper
56 100
55 44.6 56.6 85.0#

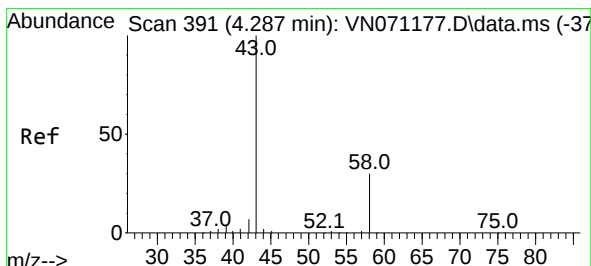
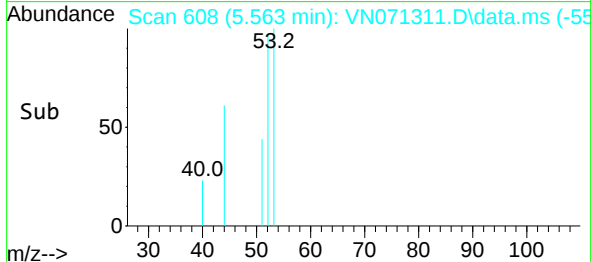
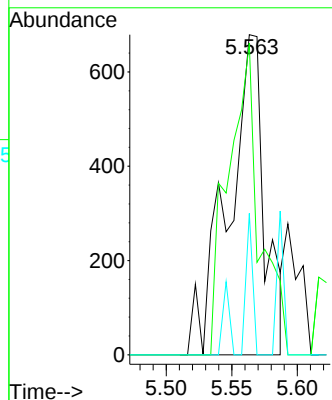
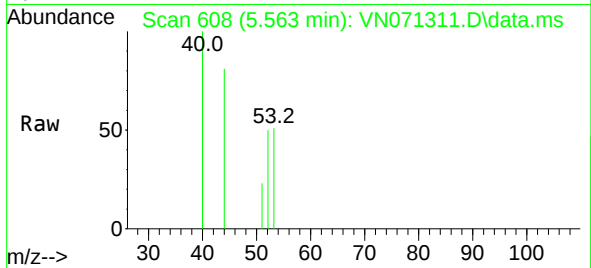




#15
Acrylonitrile
Concen: 0.274 ug/l
RT: 5.563 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

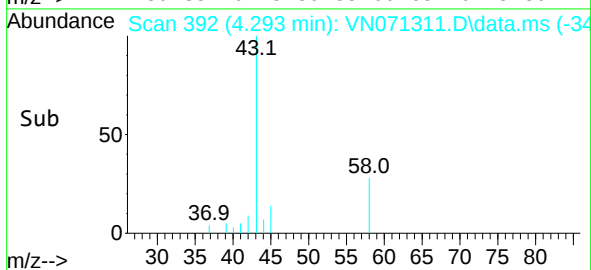
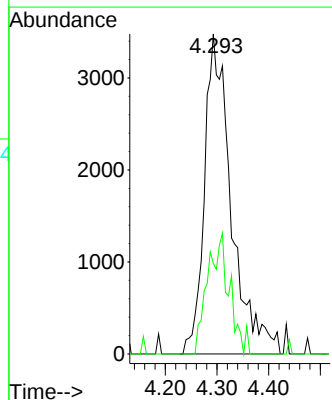
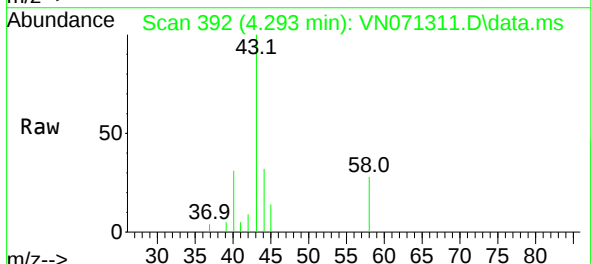
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

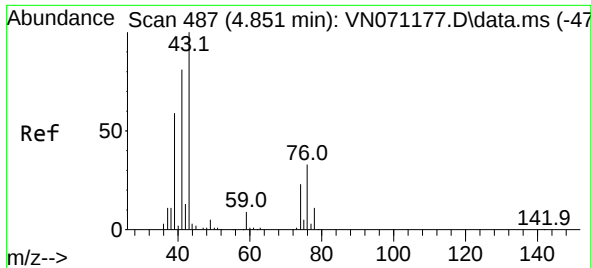
Tgt Ion: 53 Resp: 1321
Ion Ratio Lower Upper
53 100
52 83.2 66.2 99.2
51 8.0 29.6 44.4#



#16
Acetone
Concen: 3.120 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 43 Resp: 12530
Ion Ratio Lower Upper
43 100
58 28.3 23.1 34.7

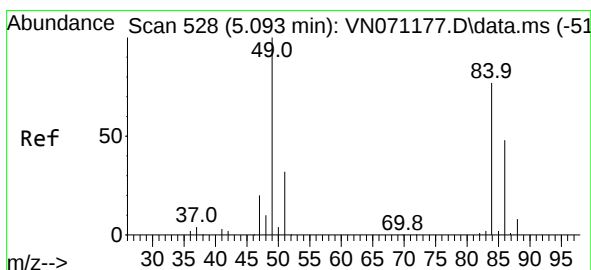
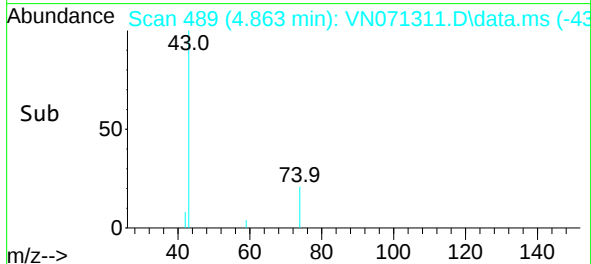
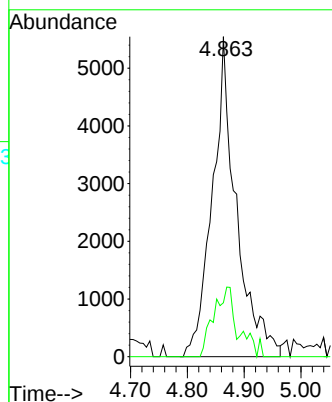
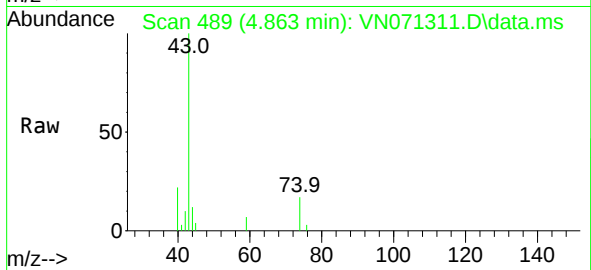




#18
Methyl Acetate
Concen: 1.963 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

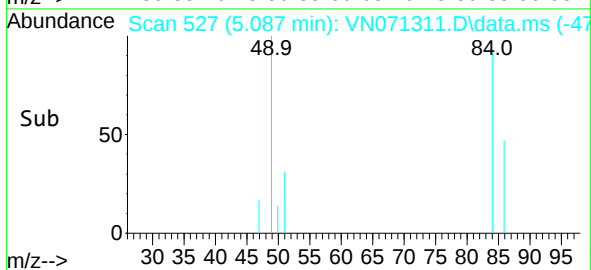
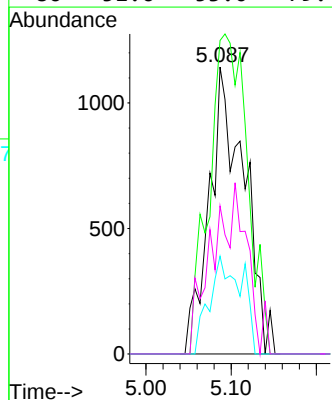
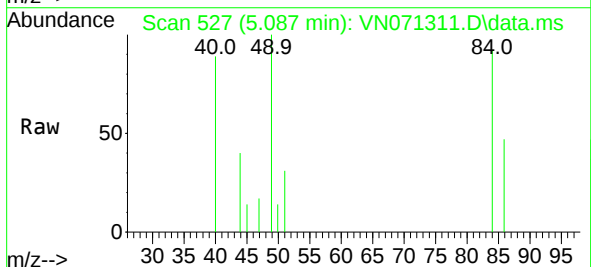
Instrument :
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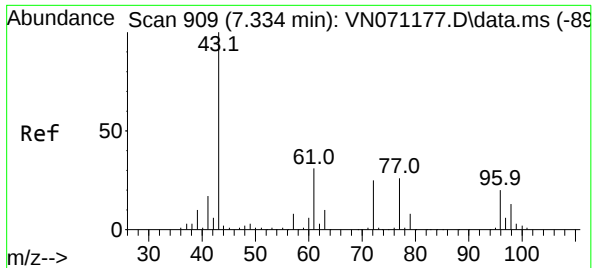
Tgt Ion: 43 Resp: 16259
Ion Ratio Lower Upper
43 100
74 18.3 19.4 29.2#



#20
Methylene Chloride
Concen: 0.822 ug/l
RT: 5.087 min Scan# 527
Delta R.T. -0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 84 Resp: 3256
Ion Ratio Lower Upper
84 100
49 109.3 93.5 140.3
51 34.1 29.4 44.2
86 51.6 53.0 79.4#

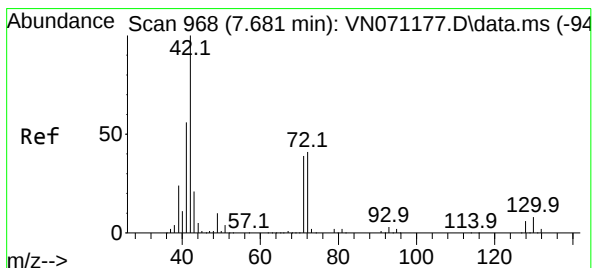
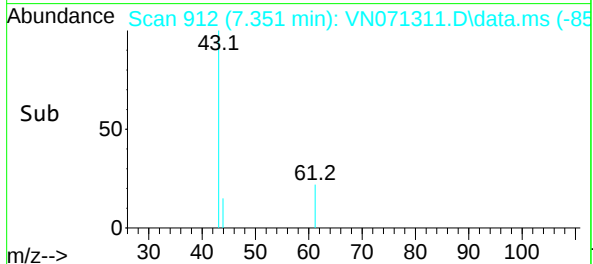
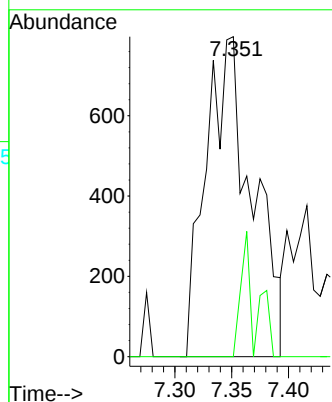
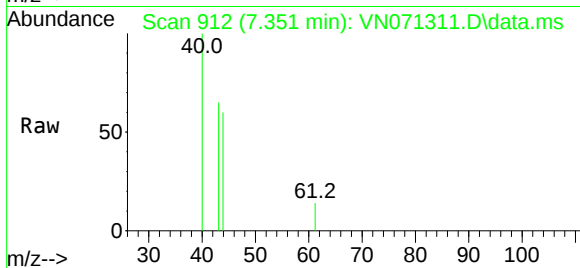




#25
2-Butanone
Concen: 0.351 ug/l
RT: 7.351 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

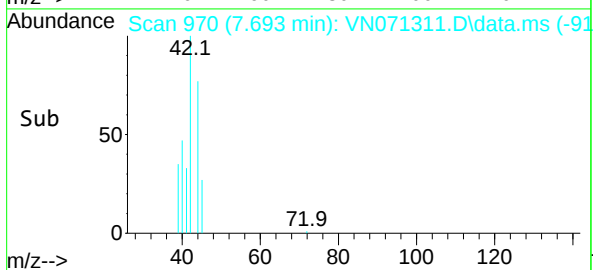
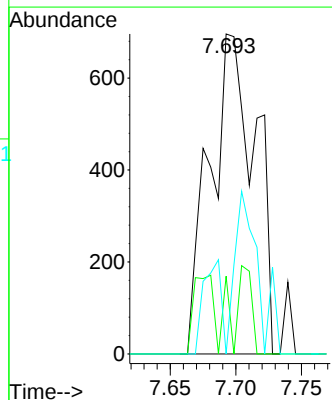
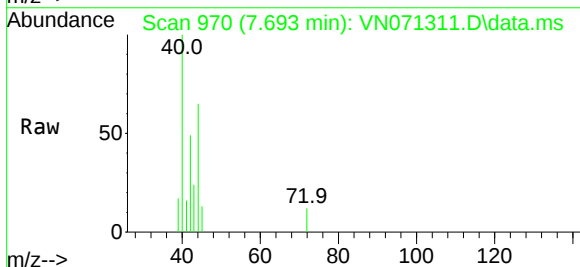
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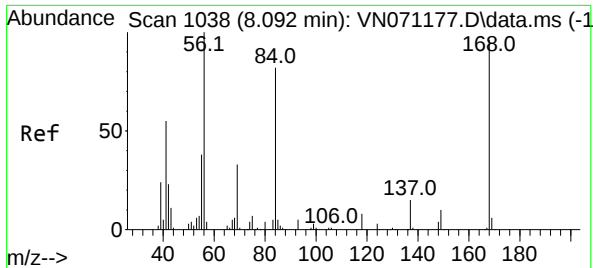
Tgt Ion: 43 Resp: 2270
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.373 ug/l
RT: 7.693 min Scan# 970
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 42 Resp: 1674
Ion Ratio Lower Upper
42 100
72 10.6 36.3 54.5#
71 11.4 34.7 52.1#

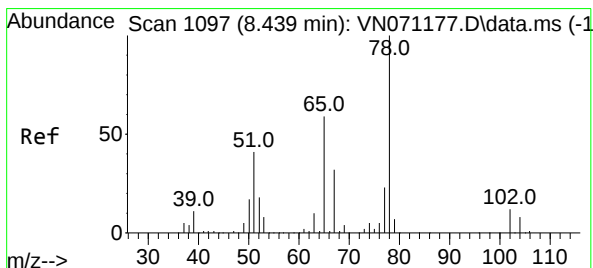
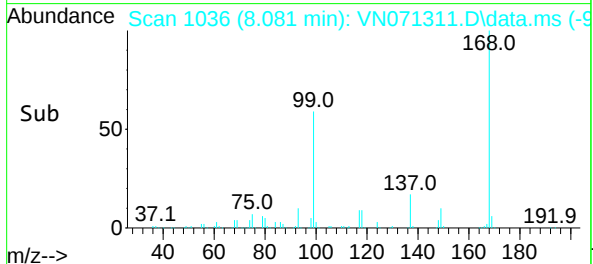
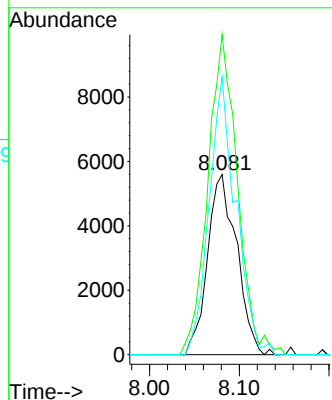
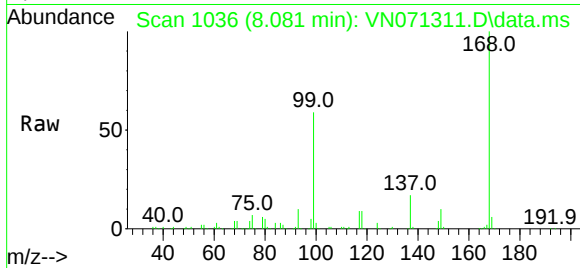




#31
Cyclohexane
Concen: 0.961 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

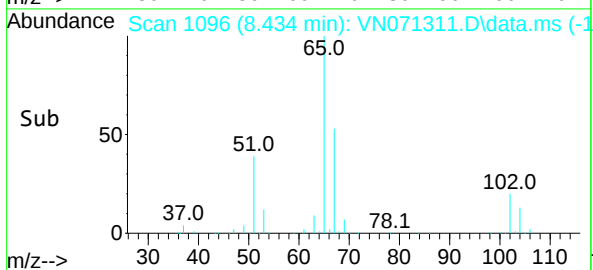
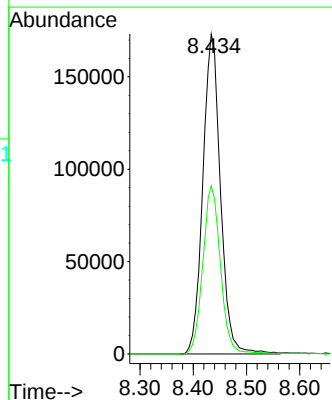
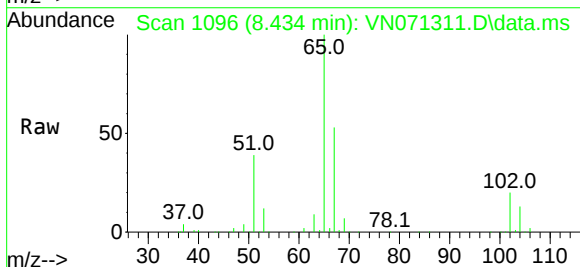
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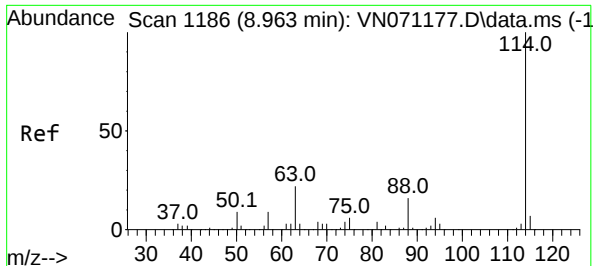
Tgt Ion: 56 Resp: 12661
Ion Ratio Lower Upper
56 100
69 177.5 27.1 40.7#
84 154.2 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 48.247 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 65 Resp: 398239
Ion Ratio Lower Upper
65 100
67 52.7 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: VN071311.D

Acq: 16 Mar 2022 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0316MBL01

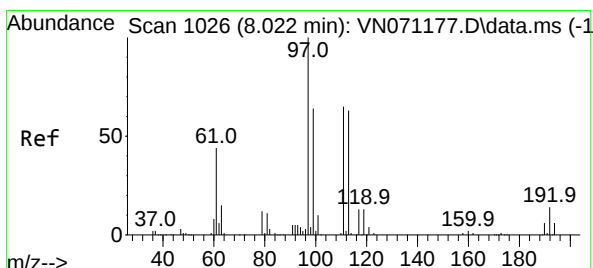
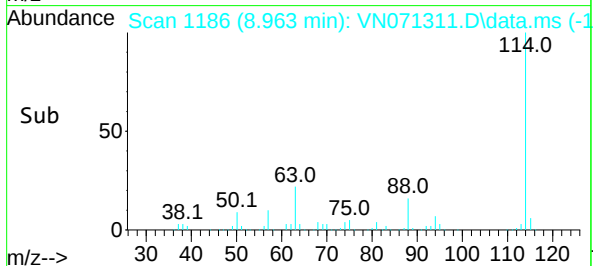
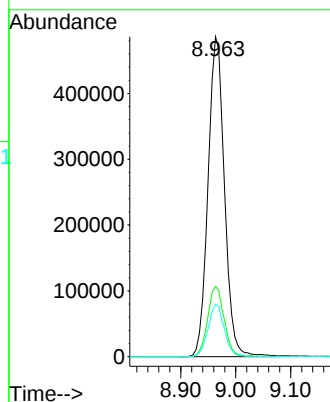
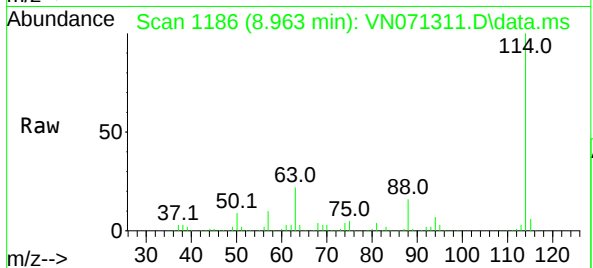
Tgt Ion:114 Resp: 1010032

Ion Ratio Lower Upper

114 100

63 22.0 0.0 37.8

88 16.4 0.0 27.4



#35

Dibromofluoromethane

Concen: 47.551 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.006 min

Lab File: VN071311.D

Acq: 16 Mar 2022 11:05

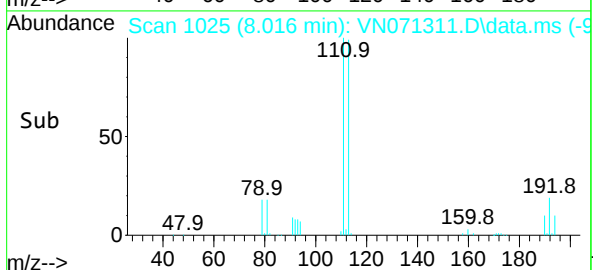
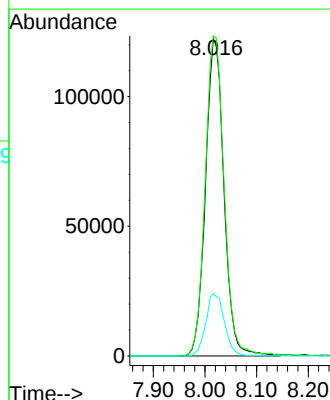
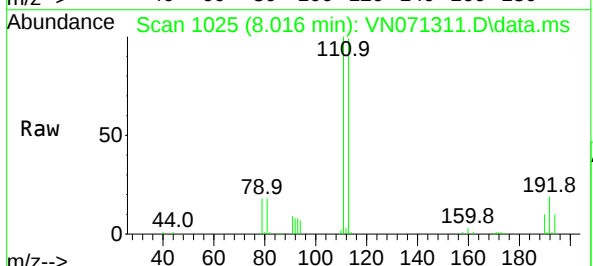
Tgt Ion:113 Resp: 303074

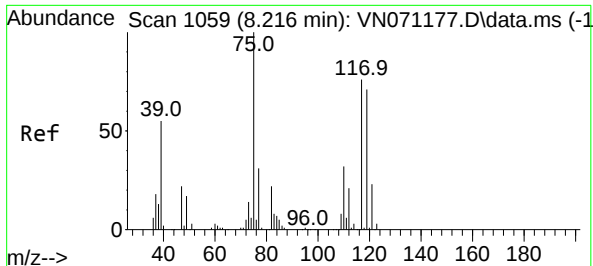
Ion Ratio Lower Upper

113 100

111 104.0 82.2 123.2

192 19.8 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.663 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.129 min

Lab File: VN071311.D

Acq: 16 Mar 2022 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0316MBL01

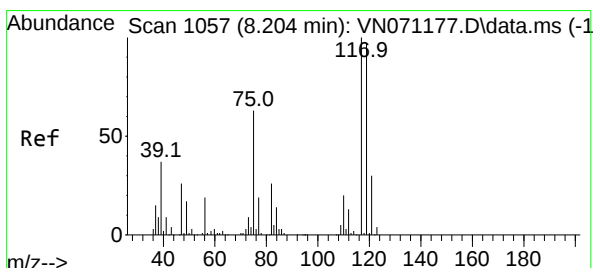
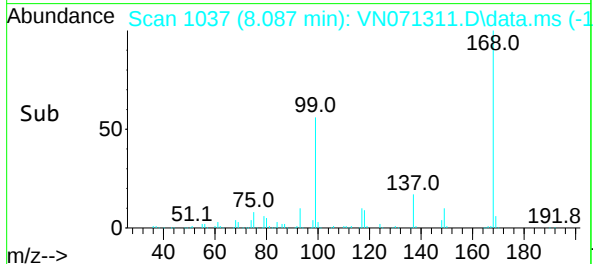
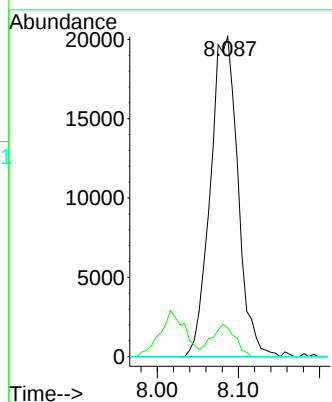
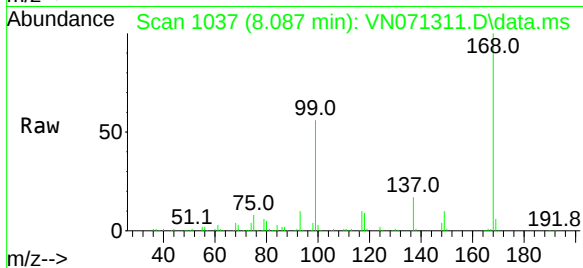
Tgt Ion: 75 Resp: 47615

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.114 ug/l

RT: 8.075 min Scan# 1035

Delta R.T. -0.129 min

Lab File: VN071311.D

Acq: 16 Mar 2022 11:05

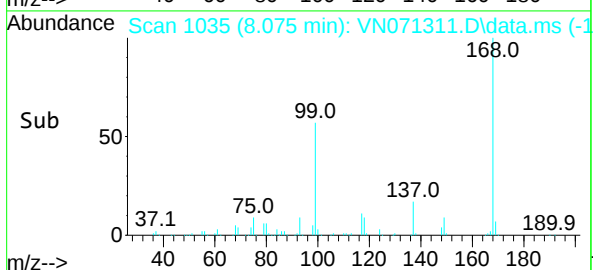
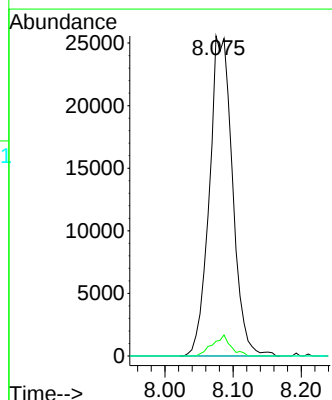
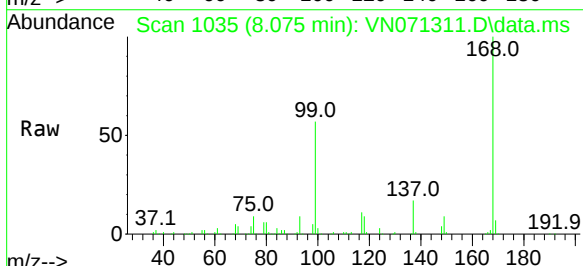
Tgt Ion: 117 Resp: 60391

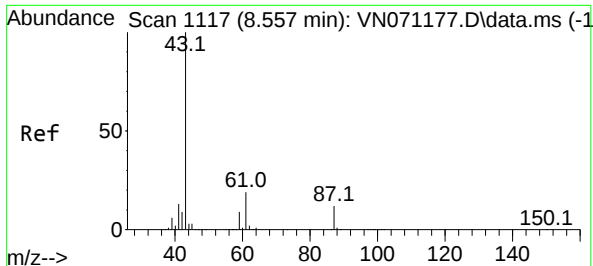
Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

121 0.0 24.2 36.2#

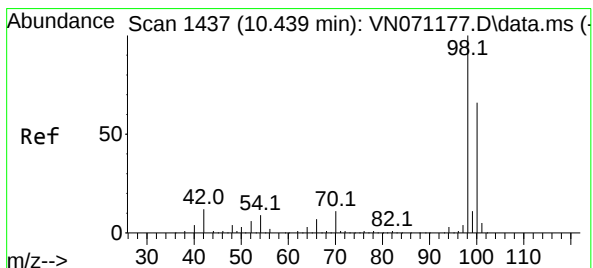
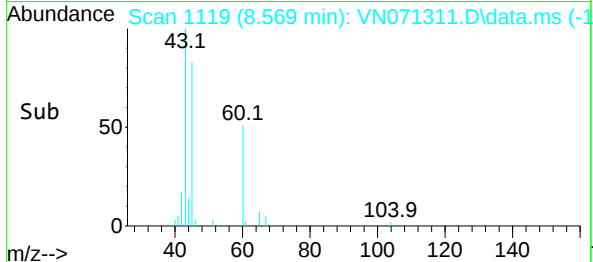
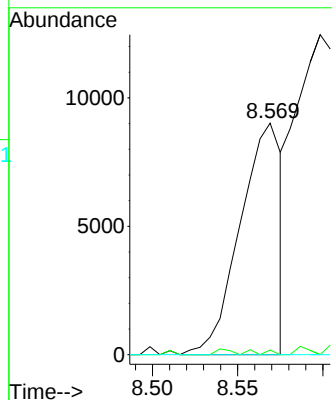
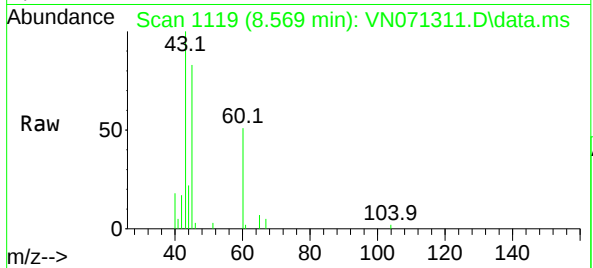




#43
Isopropyl Acetate
Concen: 0.724 ug/l
RT: 8.569 min Scan# 1117
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

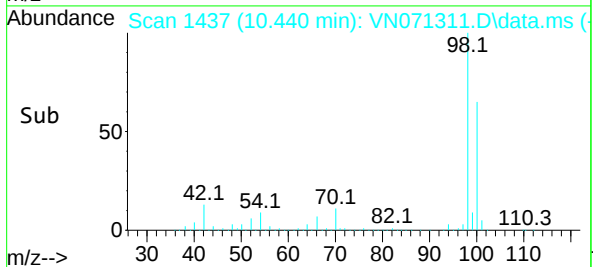
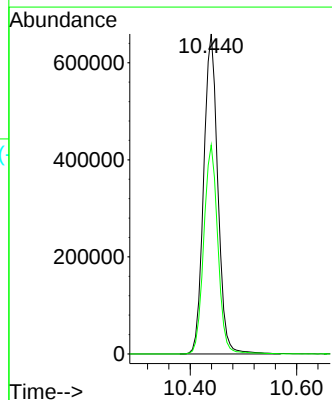
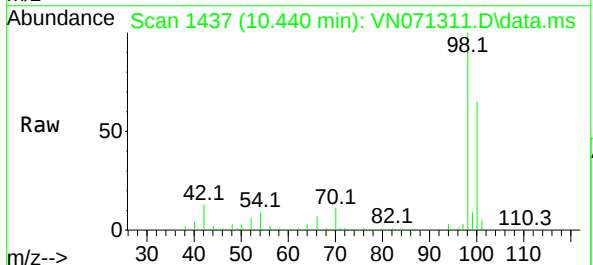
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

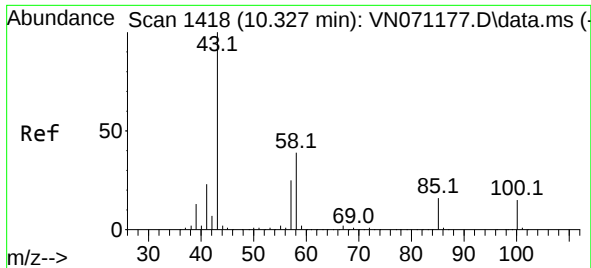
Tgt Ion: 43 Resp: 15219
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#



#50
Toluene-d8
Concen: 47.418 ug/l
RT: 10.440 min Scan# 1437
Delta R.T. 0.001 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 98 Resp: 1216851
Ion Ratio Lower Upper
98 100
100 65.0 50.4 75.6

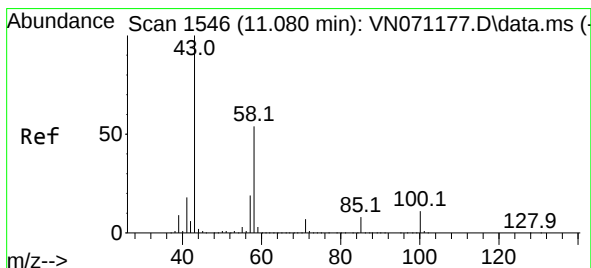
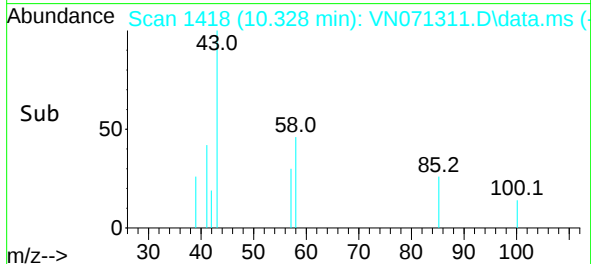
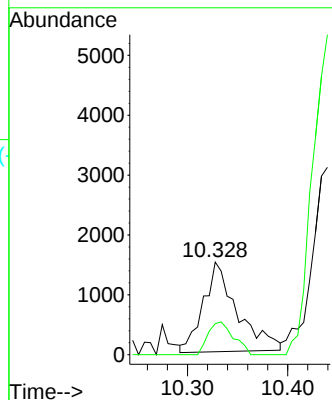
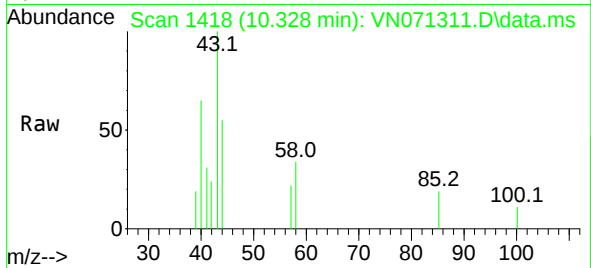




#51
4-Methyl-2-Pentanone
Concen: 0.270 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

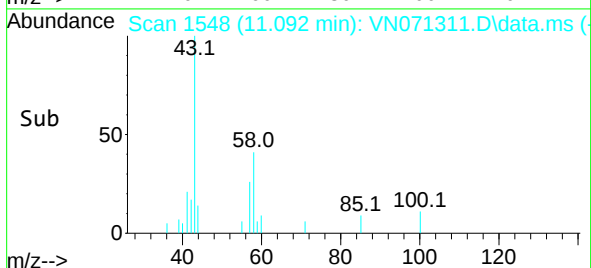
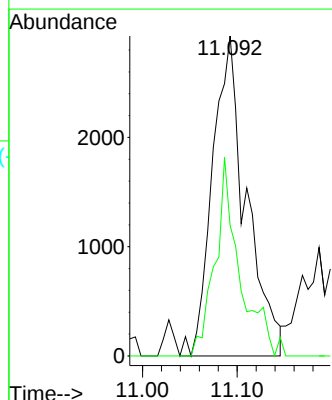
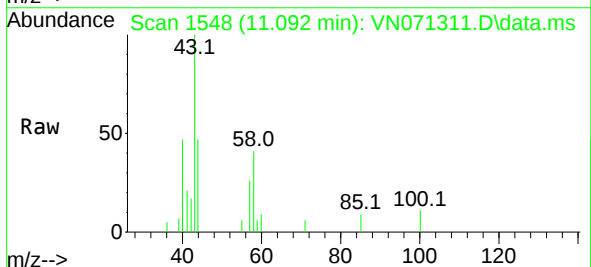
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

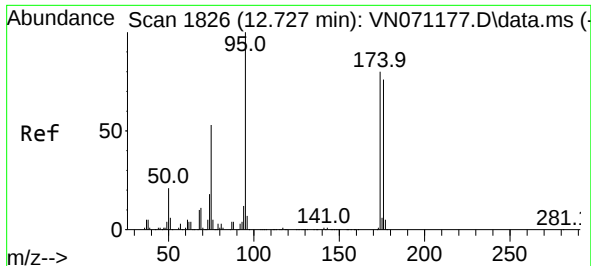
Tgt Ion: 43 Resp: 3517
Ion Ratio Lower Upper
43 100
58 27.5 30.4 45.6#



#59
2-Hexanone
Concen: 0.813 ug/l
RT: 11.092 min Scan# 1548
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 43 Resp: 7233
Ion Ratio Lower Upper
43 100
58 45.3 26.9 80.7

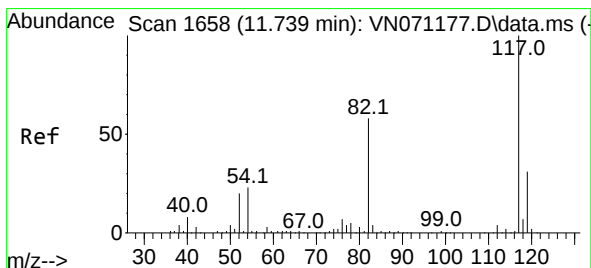
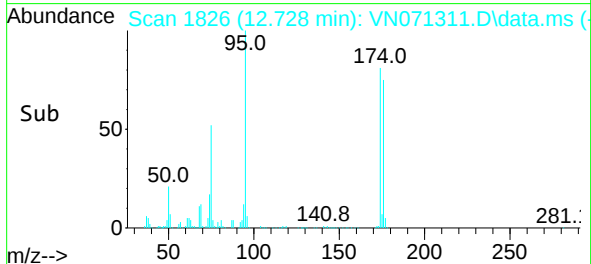
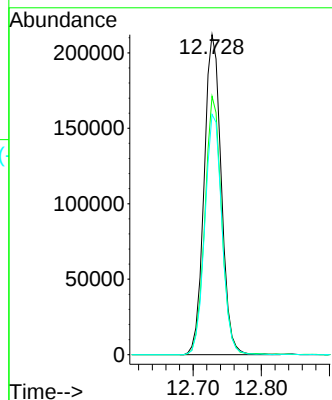
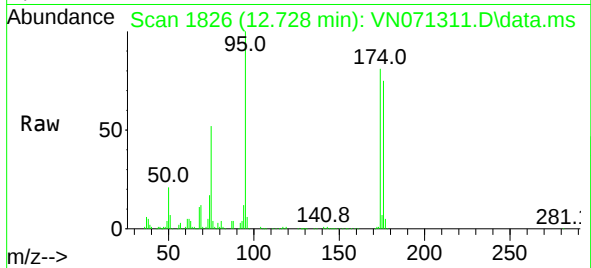




#62
4-Bromofluorobenzene
Concen: 42.516 ug/l
RT: 12.728 min Scan# 1826
Delta R.T. 0.001 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

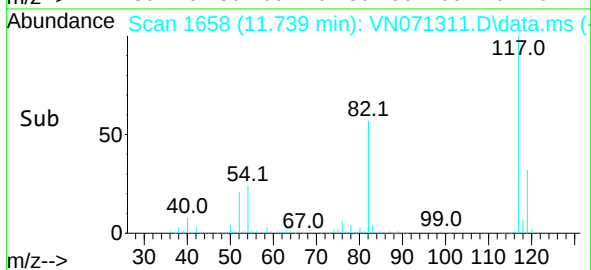
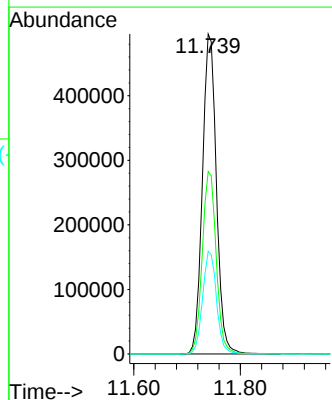
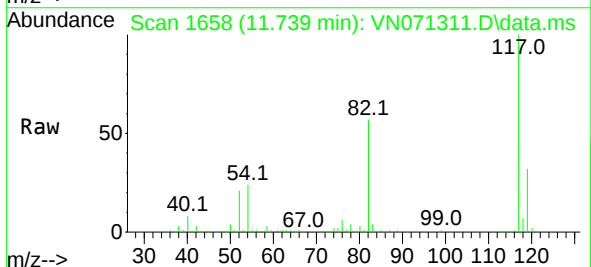
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

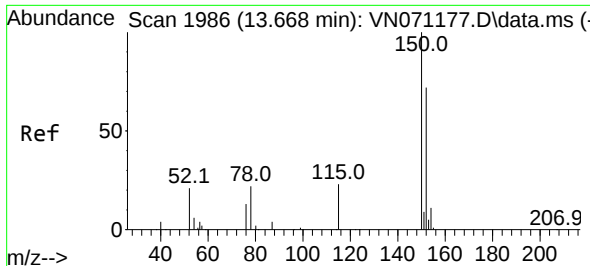
Tgt Ion: 95 Resp: 369456
Ion Ratio Lower Upper
95 100
174 79.1 0.0 187.2
176 75.2 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 117 Resp: 903246
Ion Ratio Lower Upper
117 100
82 57.0 42.4 63.6
119 32.1 25.4 38.2

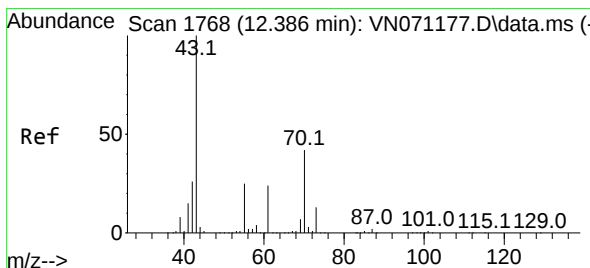
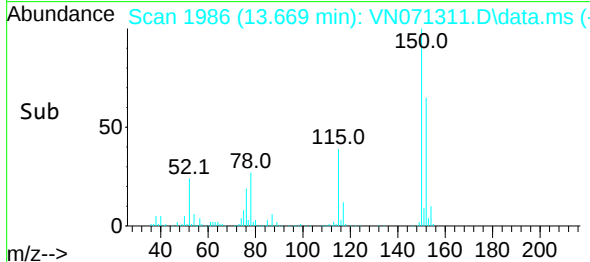
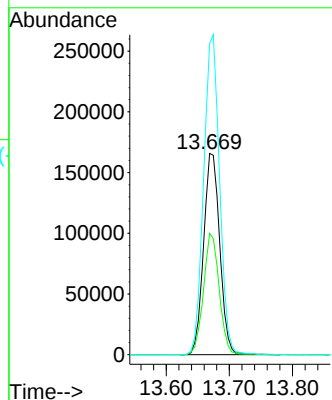
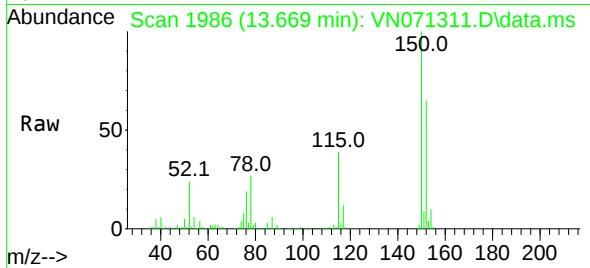




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.001 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

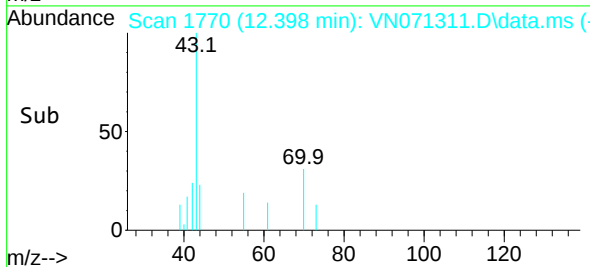
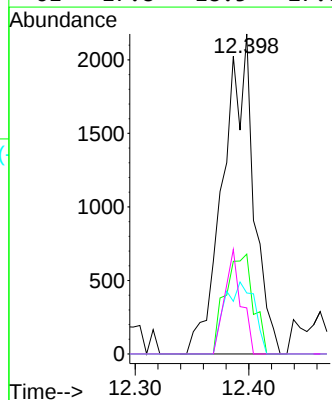
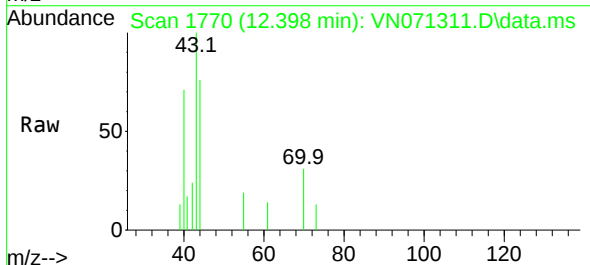
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

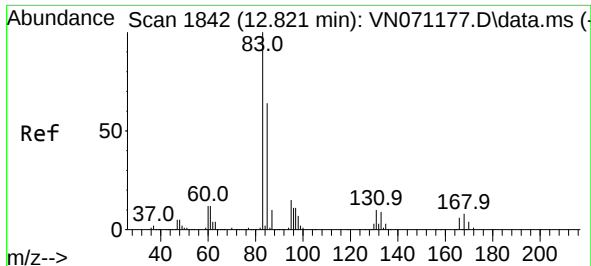
Tgt Ion:152 Resp: 293857
Ion Ratio Lower Upper
152 100
115 58.7 27.5 82.5
150 156.7 0.0 344.4



#74
N-ethyl acetate
Concen: 0.381 ug/l
RT: 12.398 min Scan# 1770
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 43 Resp: 4057
Ion Ratio Lower Upper
43 100
70 28.5 33.4 50.0#
55 21.8 19.3 28.9
61 17.8 18.5 27.7#

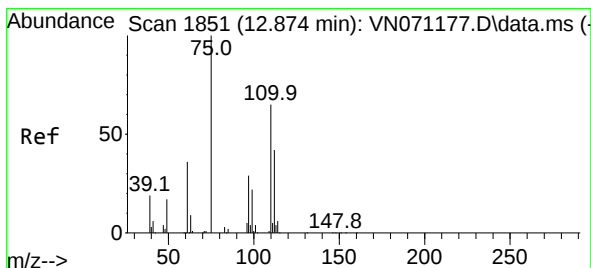
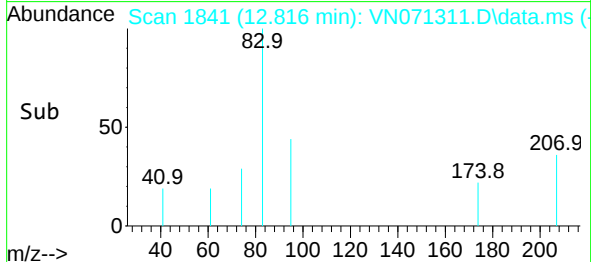
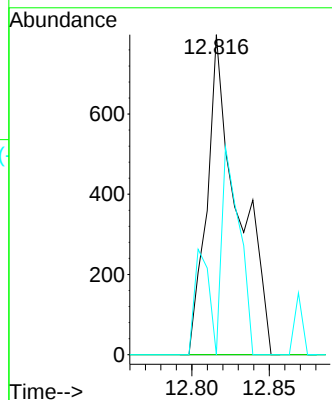
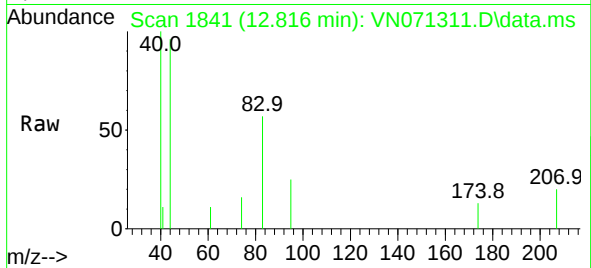




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.816 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

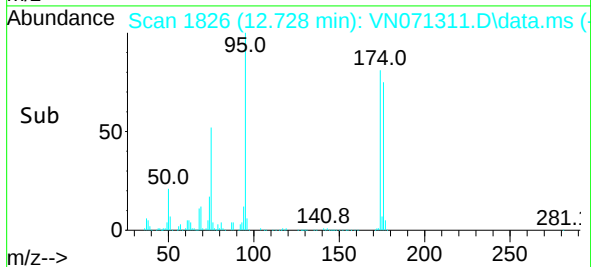
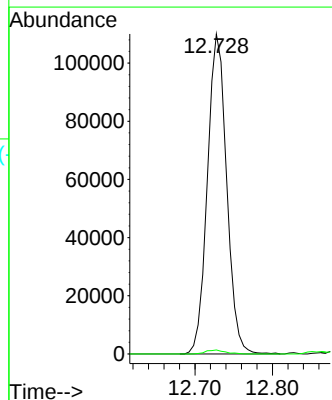
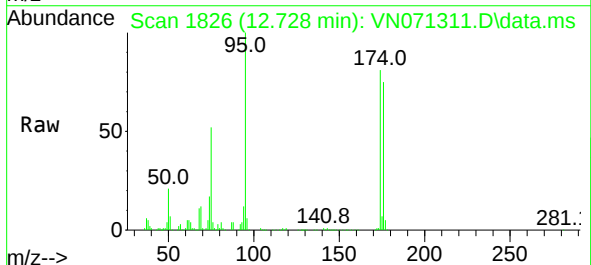
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

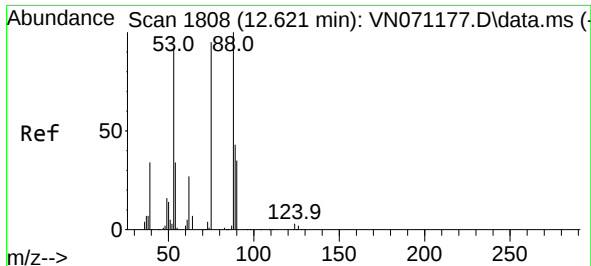
Tgt Ion: 83 Resp: 1105
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 52.6 32.4 97.2



#76
1,2,3-Trichloropropane
Concen: 25.247 ug/l
RT: 12.728 min Scan# 1826
Delta R.T. -0.146 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 75 Resp: 189761
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#

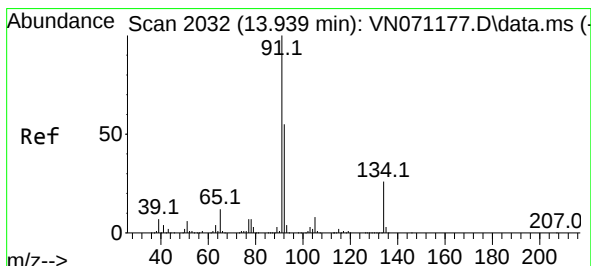
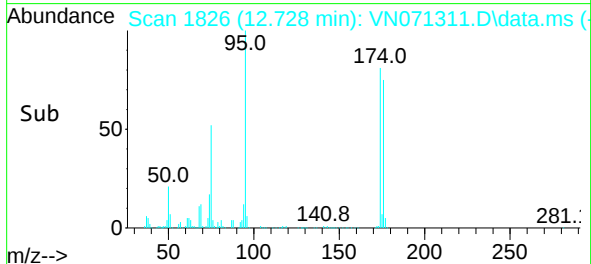
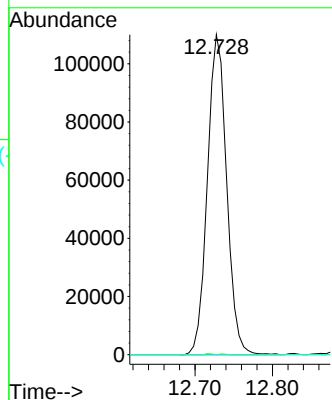
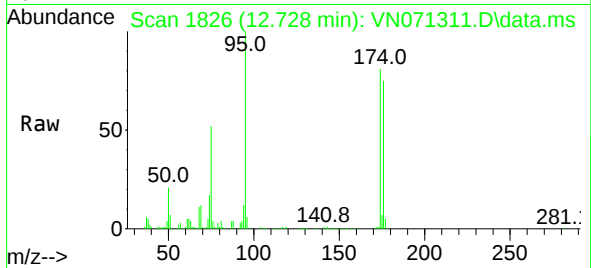




#81
trans-1,4-Dichloro-2-butene
Concen: 69.806 ug/l
RT: 12.728 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

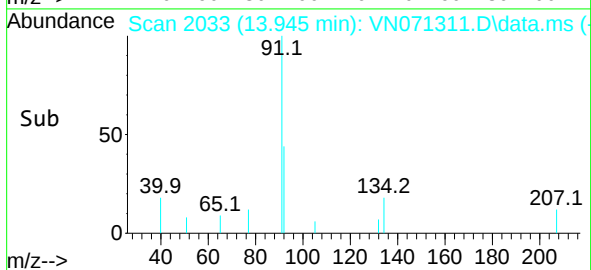
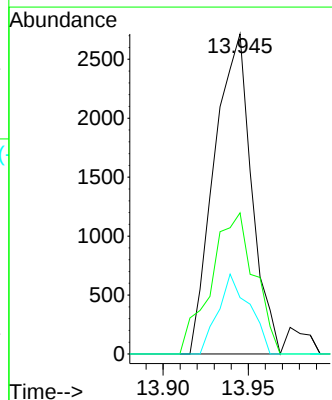
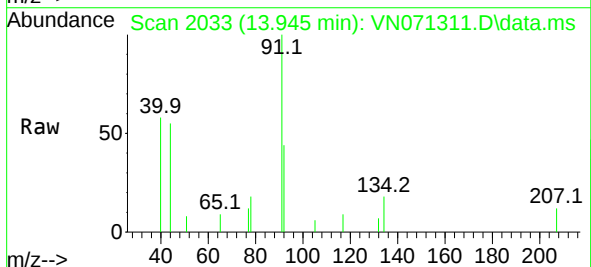
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

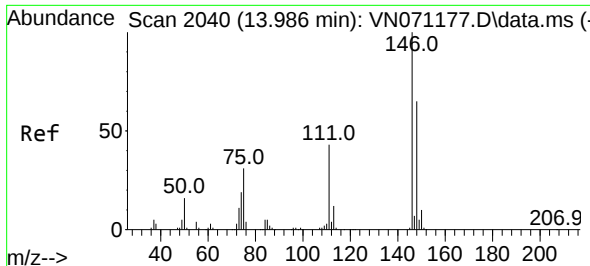
Tgt Ion: 75 Resp: 189761
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#89
n-Butylbenzene
Concen: 0.257 ug/l
RT: 13.945 min Scan# 2033
Delta R.T. 0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 91 Resp: 4130
Ion Ratio Lower Upper
91 100
92 51.5 25.4 76.0
134 21.0 13.6 40.8

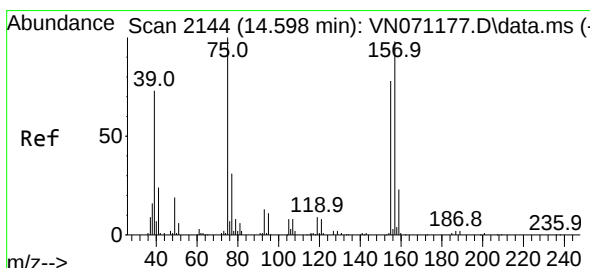
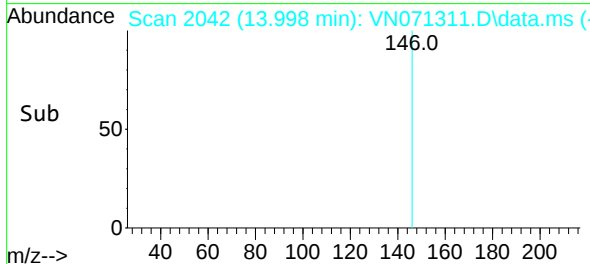
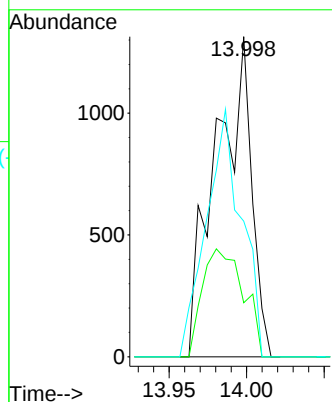
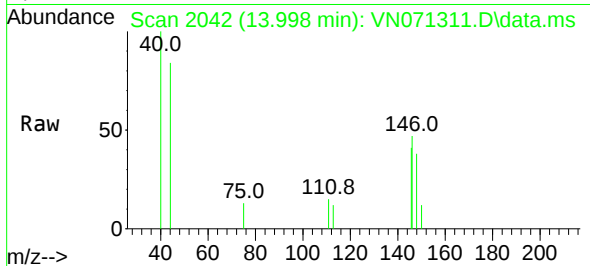




#91
1,2-Dichlorobenzene
Concen: 0.204 ug/l
RT: 13.998 min Scan# 2042
Delta R.T. 0.012 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

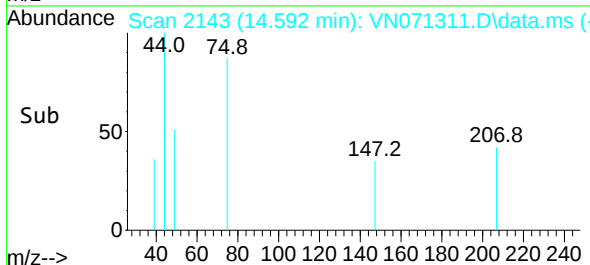
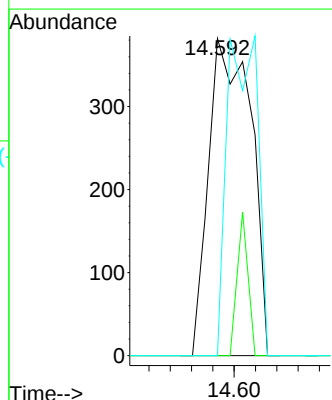
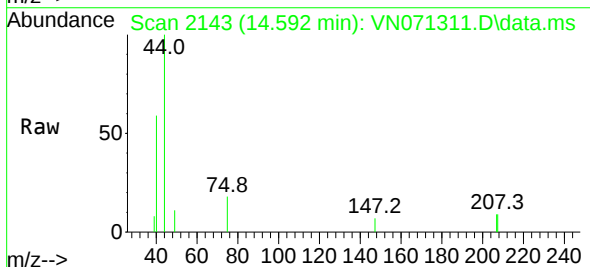
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

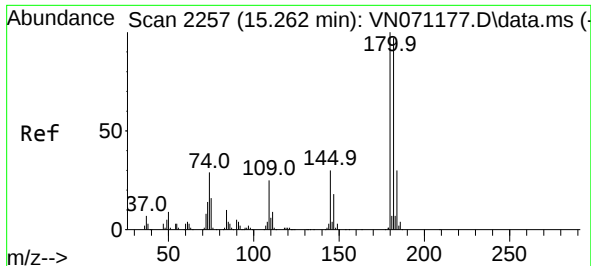
Tgt Ion:146 Resp: 2100
Ion Ratio Lower Upper
146 100
111 38.7 19.1 57.3
148 76.1 32.1 96.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.320 ug/l
RT: 14.592 min Scan# 2143
Delta R.T. -0.006 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

Tgt Ion: 75 Resp: 527
Ion Ratio Lower Upper
75 100
155 11.6 46.9 140.7#
157 72.7 60.6 181.7

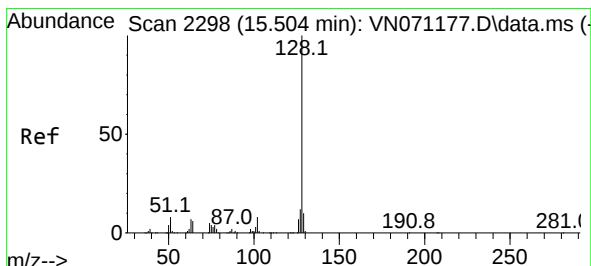
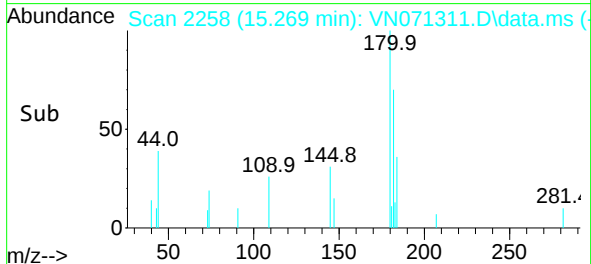
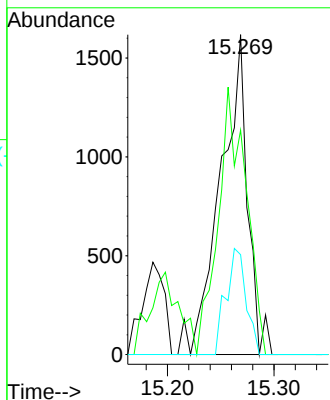
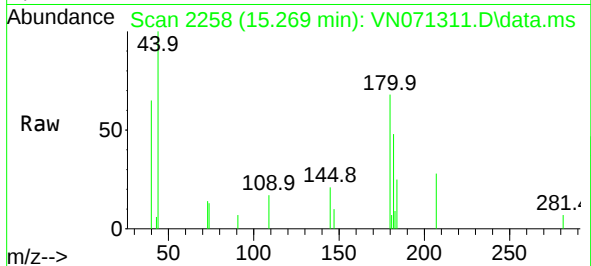




#93
1,2,4-Trichlorobenzene
Concen: 3.546 ug/l
RT: 15.269 min Scan# 21
Delta R.T. 0.007 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

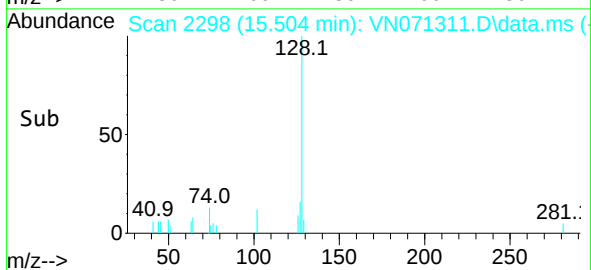
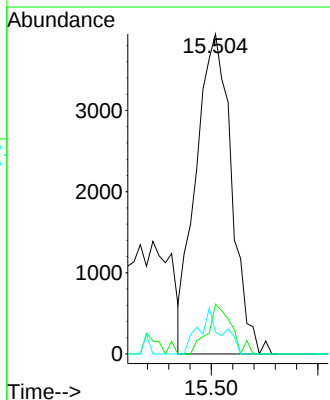
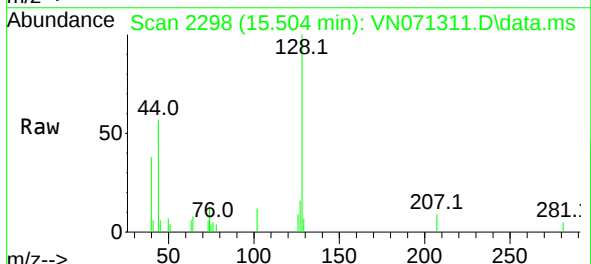
Instrument :
MSVOA_N
ClientSampleId :
VN0316MBL01

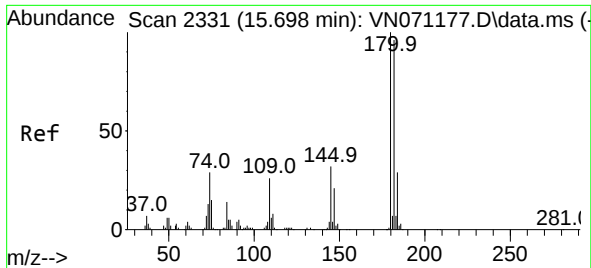
Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.7	48.3	144.9
145	24.7	14.5	43.5



#95
Naphthalene
Concen: 5.677 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071311.D
Acq: 16 Mar 2022 11:05

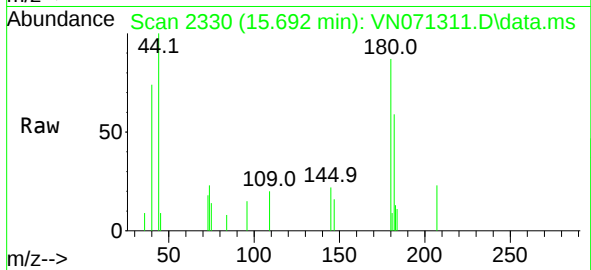
Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.5	15.7#
129	9.2	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 3.456 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN071311.D
 Acq: 16 Mar 2022 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316MBL01



Tgt Ion:	180	Resp:	3534
Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.4	142.2
145	21.8	15.0	45.1

