

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021622\
 Data File : VN070954.D
 Acq On : 16 Feb 2022 13:22
 Operator : JC\MD
 Sample : VN0216MBL01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0050

Quant Time: Feb 17 04:08:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 16 07:52:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.080	168	982640	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1489857	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1312883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	527749	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	533219	47.503	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.000%
35) Dibromofluoromethane	8.016	113	440680	49.729	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	99.460%
50) Toluene-d8	10.439	98	1748892	49.143	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.280%
62) 4-Bromofluorobenzene	12.727	95	567848	44.640	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.280%

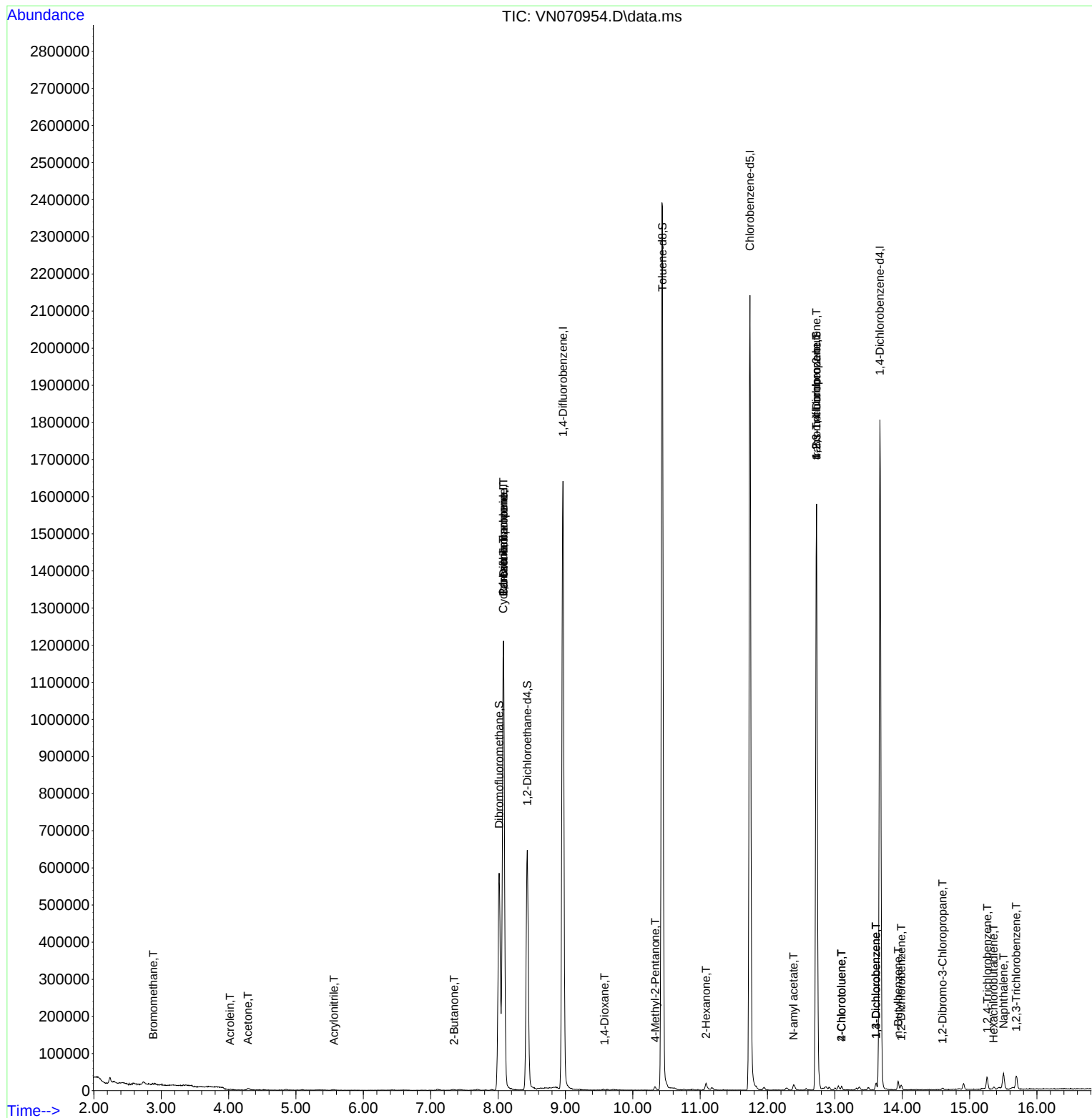
Target Compounds				Qvalue		
5) Bromomethane	2.881	94	2745	0.376	ug/l #	80
13) Acrolein	4.022	56	1148	0.628	ug/l #	82
15) Acrylonitrile	5.563	53	2424	0.402	ug/l #	76
16) Acetone	4.287	43	6179	1.000	ug/l	98
18) Methyl Acetate	4.857	43	3738	Below Cal	#	89
25) 2-Butanone	7.345	43	4519	0.550	ug/l #	79
31) Cyclohexane	8.075	56	18890	0.973	ug/l #	1
36) 1,1-Dichloropropene	8.080	75	69457	4.784	ug/l #	49
38) Carbon Tetrachloride	8.080	117	91189	6.375	ug/l #	16
49) 1,4-Dioxane	9.580	88	511	2.477	ug/l #	27
51) 4-Methyl-2-Pentanone	10.333	43	7656	0.513	ug/l	96
59) 2-Hexanone	11.086	43	15935	1.552	ug/l	98
74) N-amyl acetate	12.386	43	11138	0.820	ug/l	99
76) 1,2,3-Trichloropropane	12.727	75	280906	22.606	ug/l #	1
79) 2-Chlorotoluene	13.098	91	6638	0.229	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.727	75	280906	73.255	ug/l #	5
82) 4-Chlorotoluene	13.098	91	6638	0.236	ug/l	96
87) 1,3-Dichlorobenzene	13.610	146	5200	0.282	ug/l	93
88) 1,4-Dichlorobenzene	13.610	146	5200	0.288	ug/l	93
89) n-Butylbenzene	13.939	91	13403	0.465	ug/l	96
91) 1,2-Dichlorobenzene	13.986	146	6534	0.378	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.598	75	1592	0.728	ug/l	75
93) 1,2,4-Trichlorobenzene	15.262	180	13071	3.290	ug/l	94
94) Hexachlorobutadiene	15.356	225	1593	0.253	ug/l	88
95) Naphthalene	15.504	128	44386	6.683	ug/l	98
96) 1,2,3-Trichlorobenzene	15.692	180	14975	4.104	ug/l	97

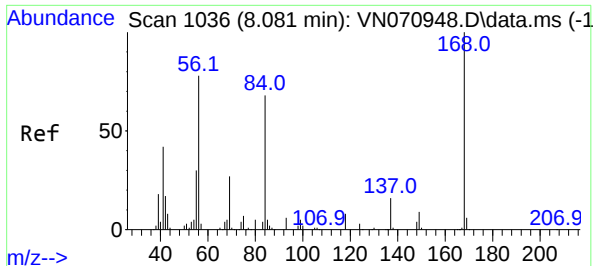
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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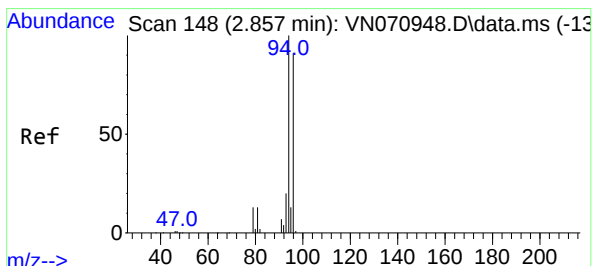
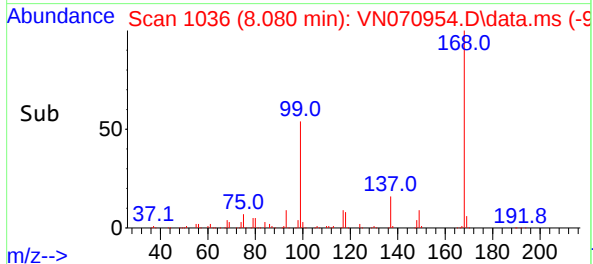
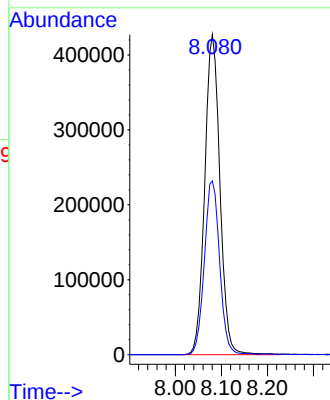
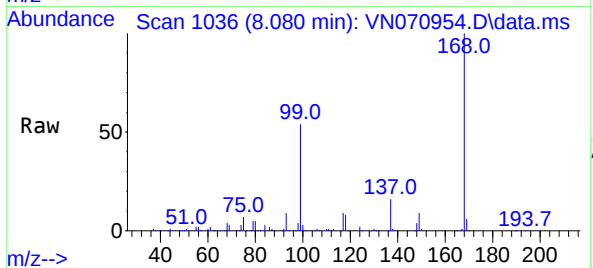




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

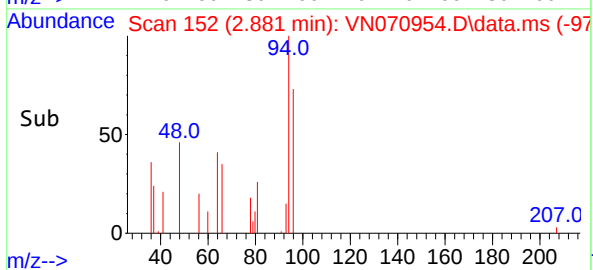
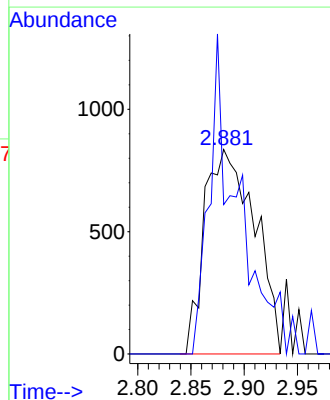
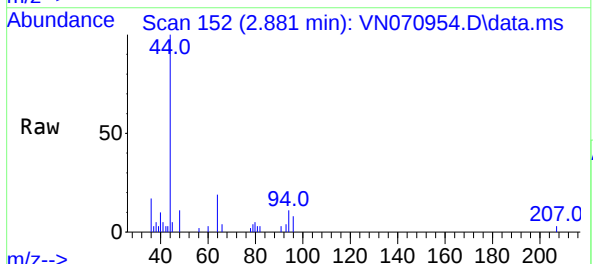
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

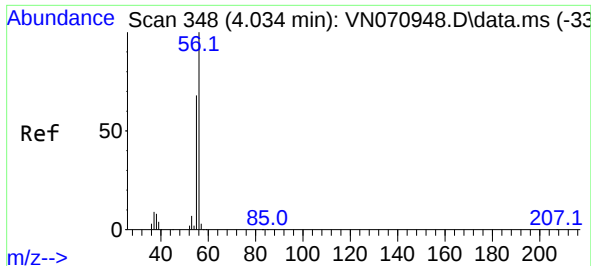
Tgt Ion:168 Resp: 982640
Ion Ratio Lower Upper
168 100
99 54.3 41.3 61.9



#5
Bromomethane
Concen: 0.376 ug/l
RT: 2.881 min Scan# 152
Delta R.T. 0.023 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 94 Resp: 2745
Ion Ratio Lower Upper
94 100
96 73.1 73.8 110.8#

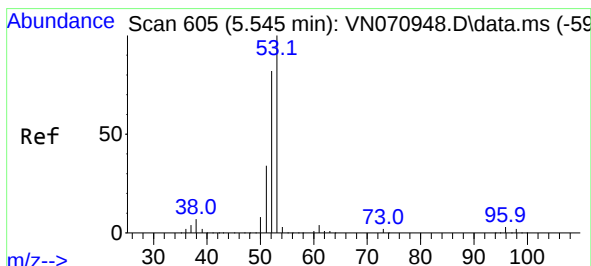
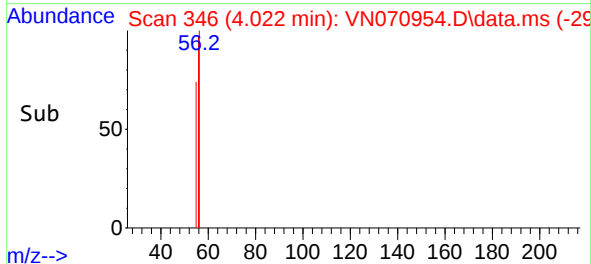
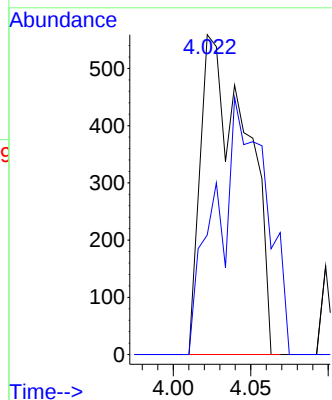
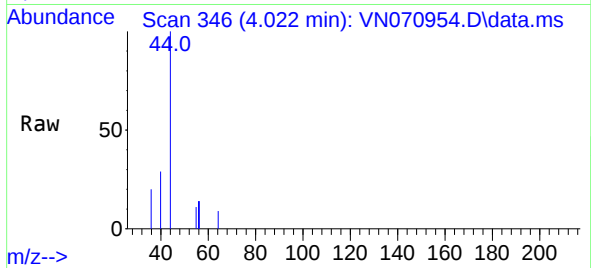




#13
Acrolein
Concen: 0.628 ug/l
RT: 4.022 min Scan# 34
Delta R.T. -0.012 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

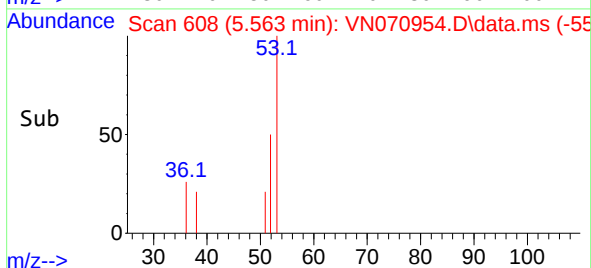
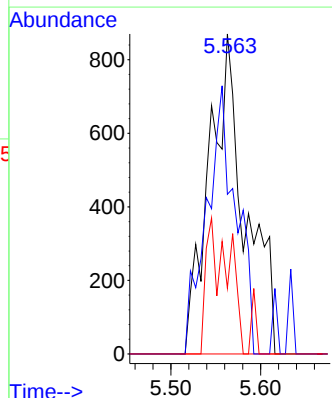
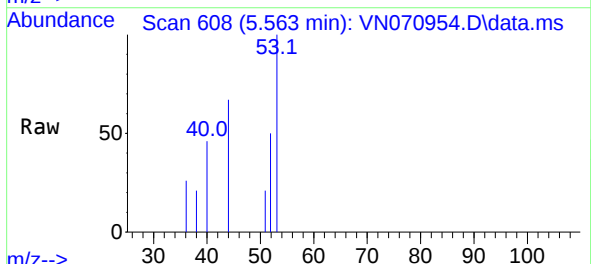
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

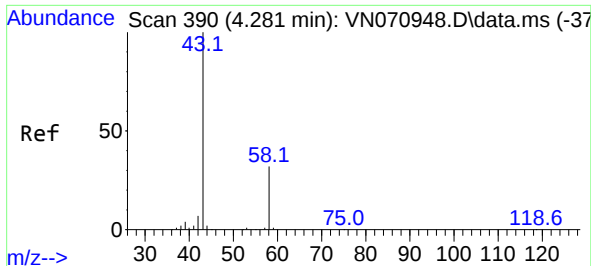
Tgt Ion: 56 Resp: 1148
Ion Ratio Lower Upper
56 100
55 86.0 56.6 85.0#



#15
Acrylonitrile
Concen: 0.402 ug/l
RT: 5.563 min Scan# 608
Delta R.T. 0.018 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 53 Resp: 2424
Ion Ratio Lower Upper
53 100
52 68.3 66.2 99.2
51 11.8 29.6 44.4#

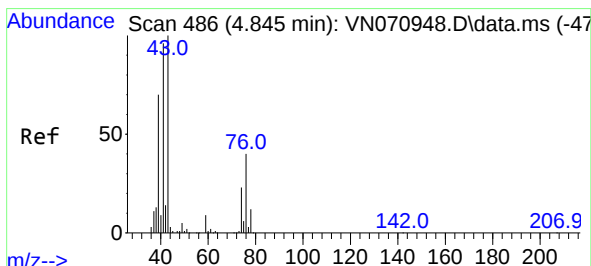
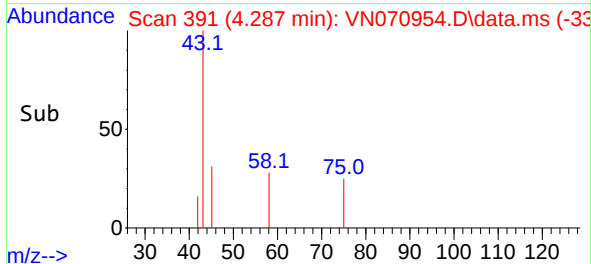
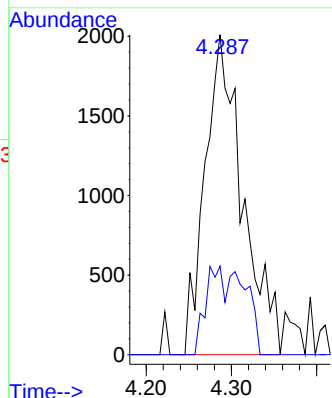
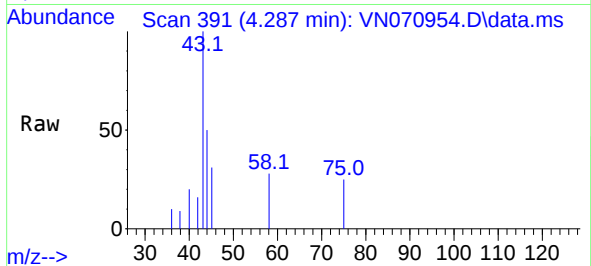




#16
Acetone
Concen: 1.000 ug/l
RT: 4.287 min Scan# 390
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

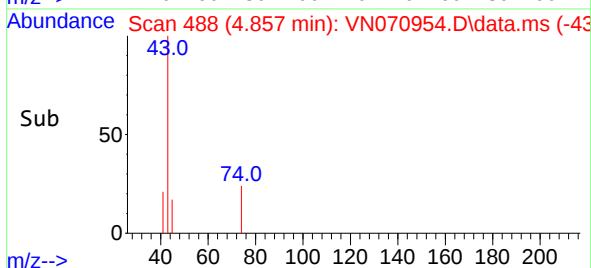
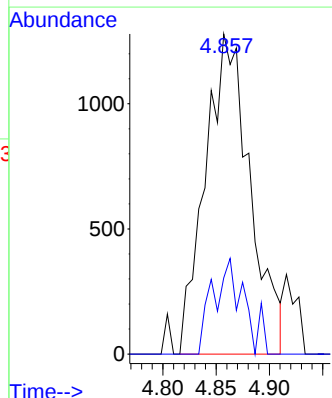
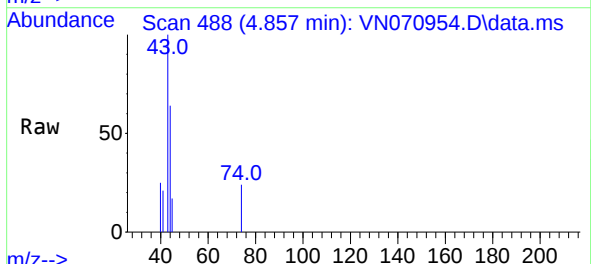
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

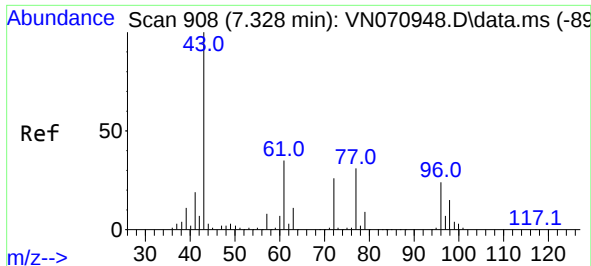
Tgt Ion: 43 Resp: 6179
Ion Ratio Lower Upper
43 100
58 27.7 23.1 34.7



#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 488
Delta R.T. 0.012 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 43 Resp: 3738
Ion Ratio Lower Upper
43 100
74 18.8 19.4 29.2#





#25

2-Butanone

Concen: 0.550 ug/l

RT: 7.345 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

Instrument :

MSVOA_N

ClientSampleId :

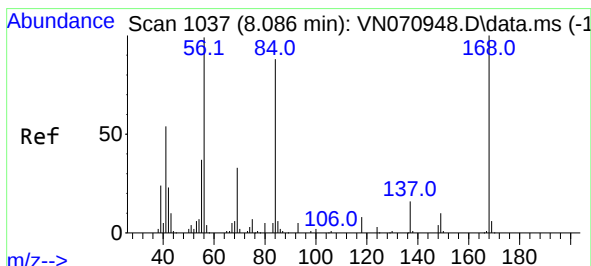
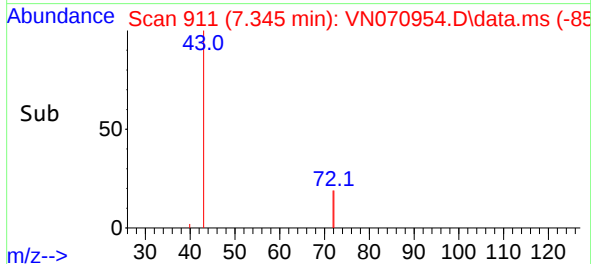
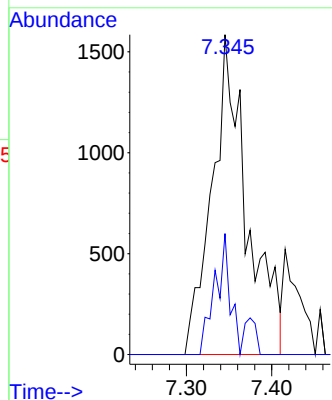
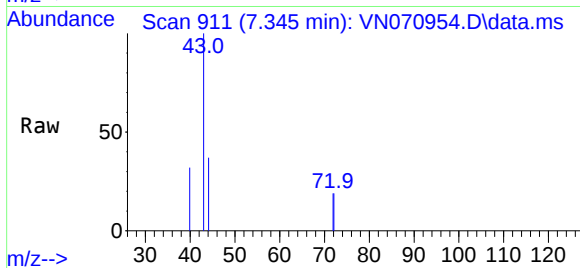
VSTDCCC050

Tgt Ion: 43 Resp: 4519

Ion Ratio Lower Upper

43 100

72 37.9 21.7 32.5#



#31

Cyclohexane

Concen: 0.973 ug/l

RT: 8.075 min Scan# 1035

Delta R.T. -0.012 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

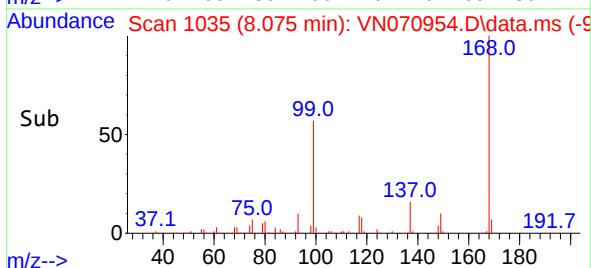
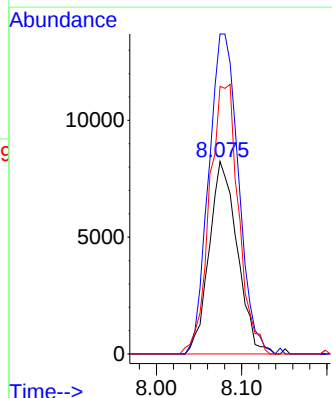
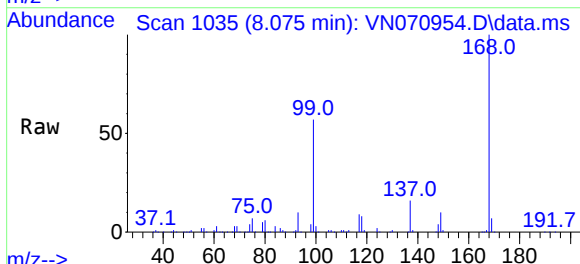
Tgt Ion: 56 Resp: 18890

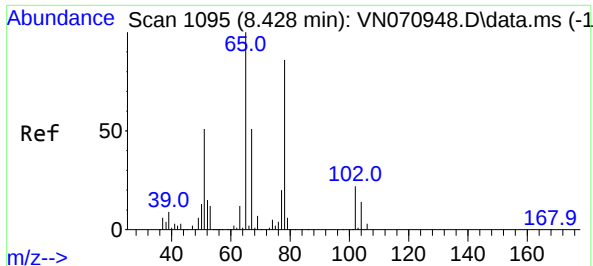
Ion Ratio Lower Upper

56 100

69 166.2 27.1 40.7#

84 139.0 73.4 110.0#

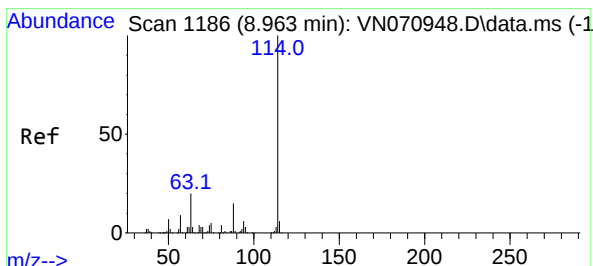
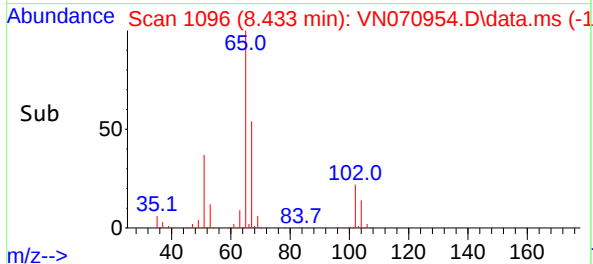
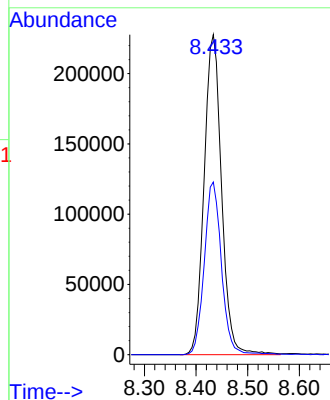
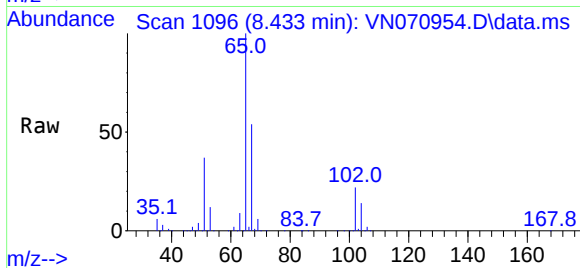




#33
1,2-Dichloroethane-d4
Concen: 47.503 ug/l
RT: 8.433 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

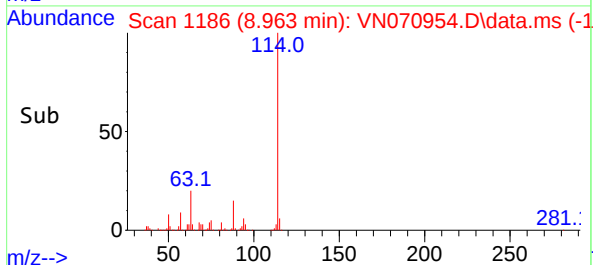
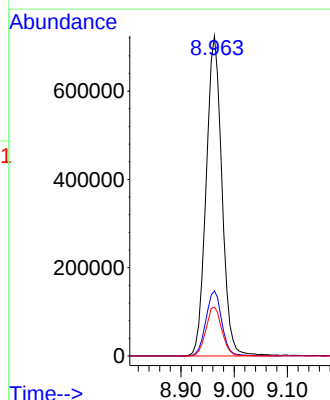
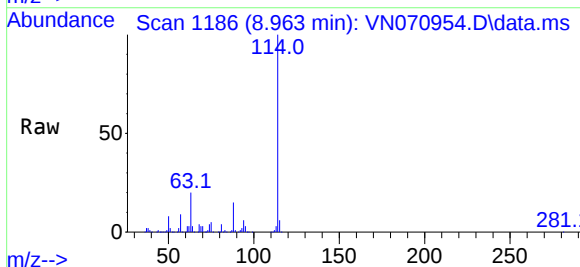
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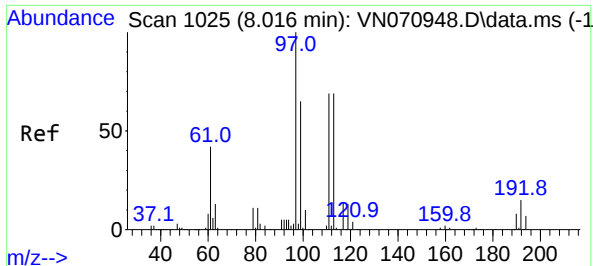
Tgt Ion: 65 Resp: 533219
Ion Ratio Lower Upper
65 100
67 53.3 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion:114 Resp: 1489857
Ion Ratio Lower Upper
114 100
63 20.4 0.0 37.8
88 15.3 0.0 27.4

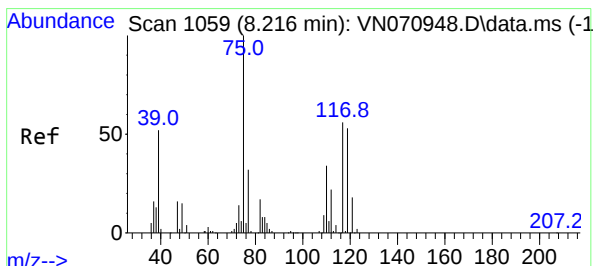
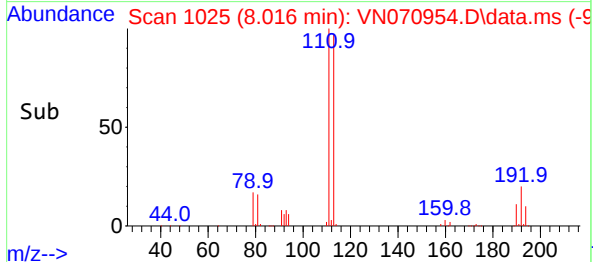
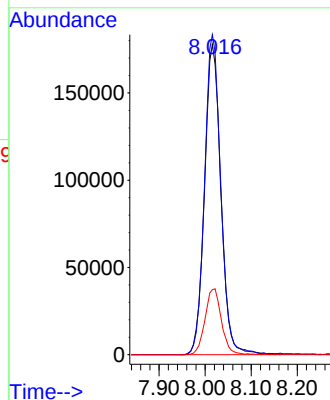
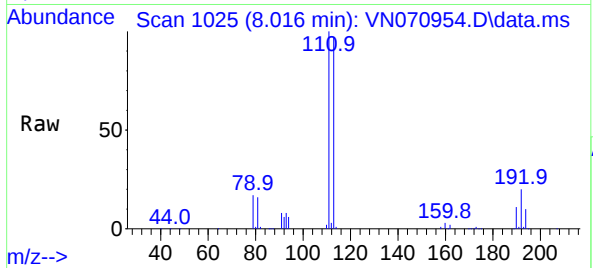




#35
Dibromofluoromethane
Concen: 49.729 ug/l
RT: 8.016 min Scan# 1025
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

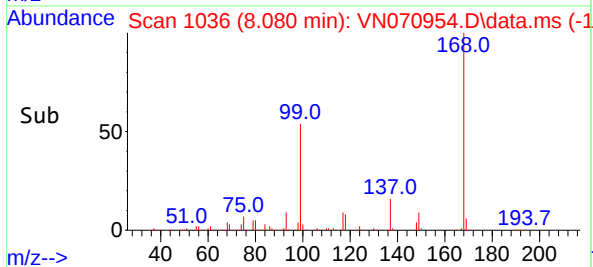
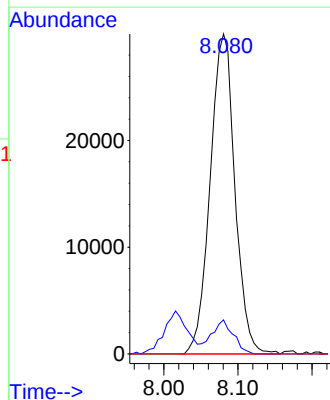
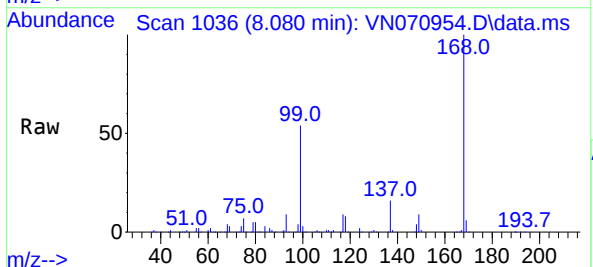
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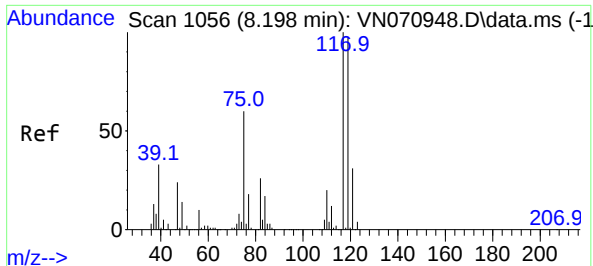
Tgt Ion:113 Resp: 440680
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.2
192 21.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.784 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 75 Resp: 69457
Ion Ratio Lower Upper
75 100
110 9.2 18.4 55.2#
77 0.0 24.4 36.6#

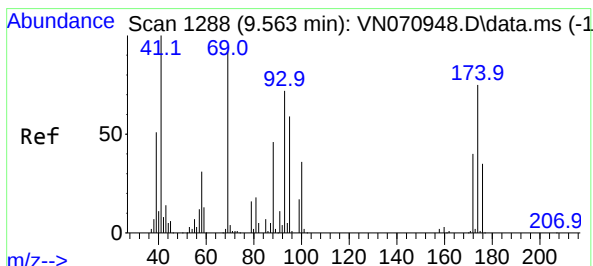
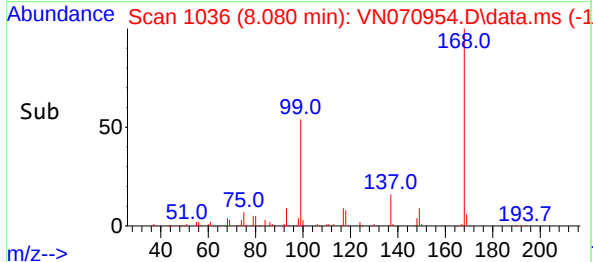
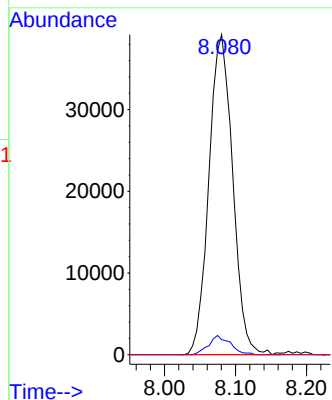
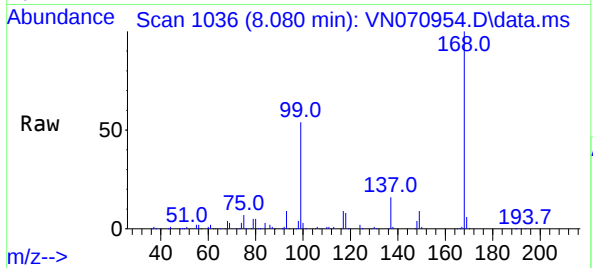




#38
Carbon Tetrachloride
Concen: 6.375 ug/l
RT: 8.080 min Scan# 117
Delta R.T. -0.118 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

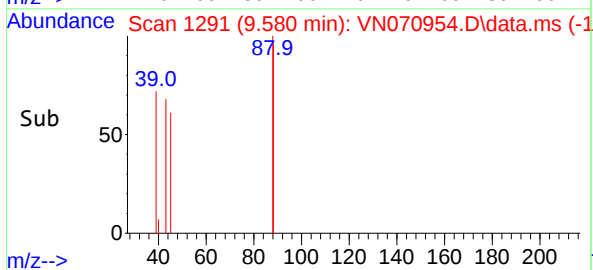
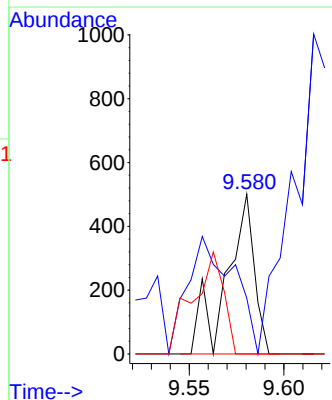
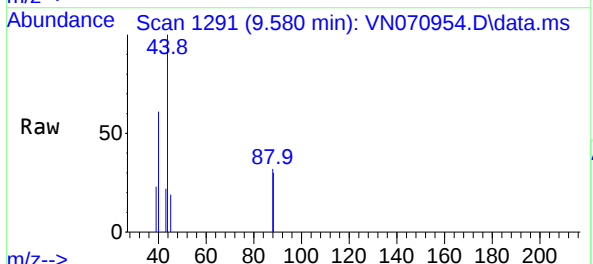
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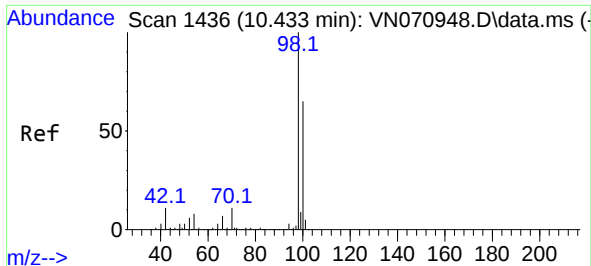
Tgt Ion:117 Resp: 91189
Ion Ratio Lower Upper
117 100
119 4.7 76.1 114.1#
121 0.0 24.2 36.2#



#49
1,4-Dioxane
Concen: 2.477 ug/l
RT: 9.580 min Scan# 1291
Delta R.T. 0.018 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 88 Resp: 511
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 50.6 75.8#

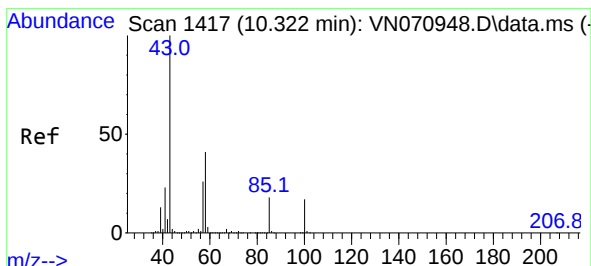
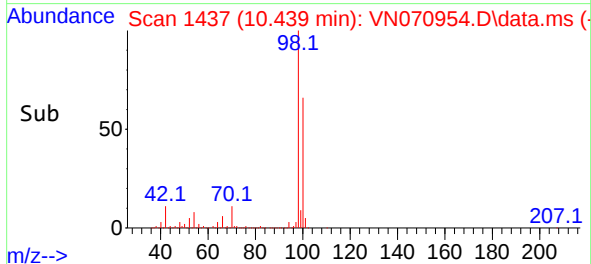
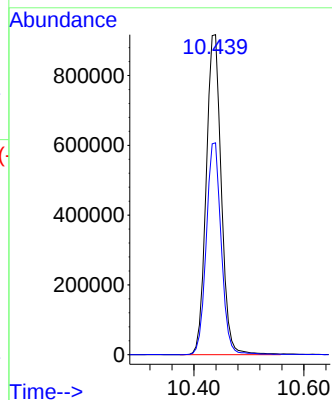
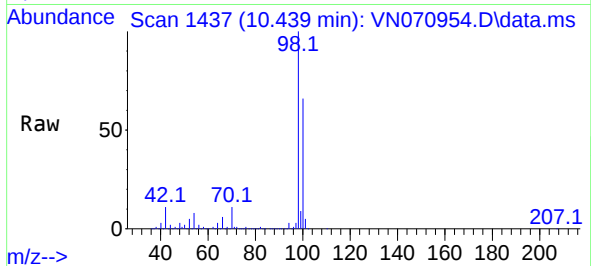




#50
Toluene-d8
Concen: 49.143 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

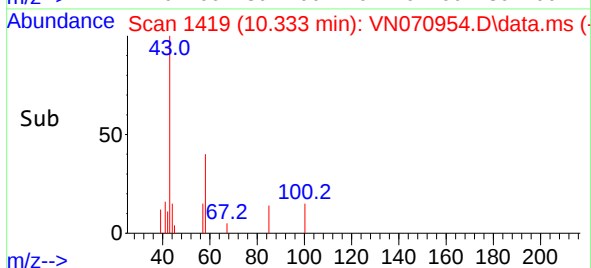
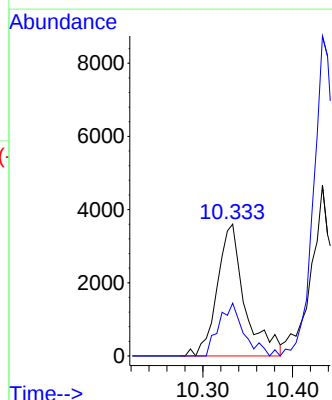
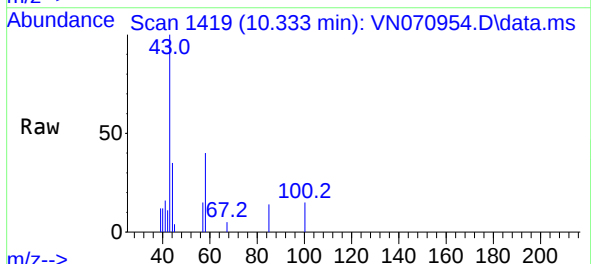
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

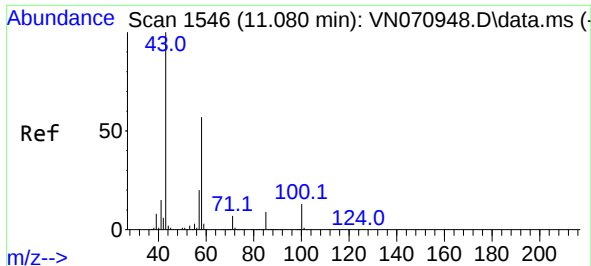
Tgt Ion: 98 Resp: 1748892
Ion Ratio Lower Upper
98 100
100 65.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.513 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.012 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 43 Resp: 7656
Ion Ratio Lower Upper
43 100
58 35.9 30.4 45.6

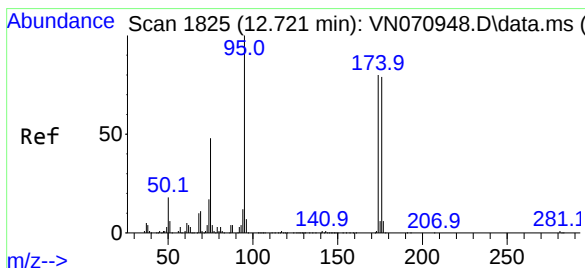
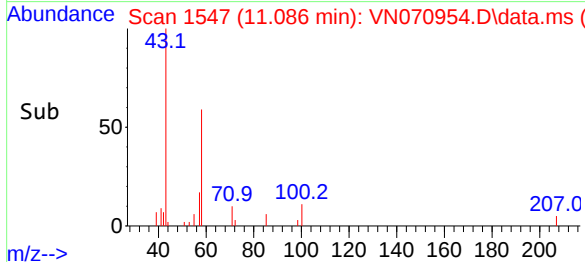
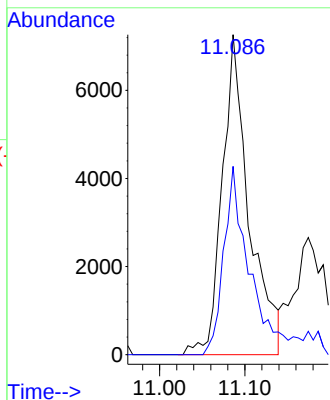
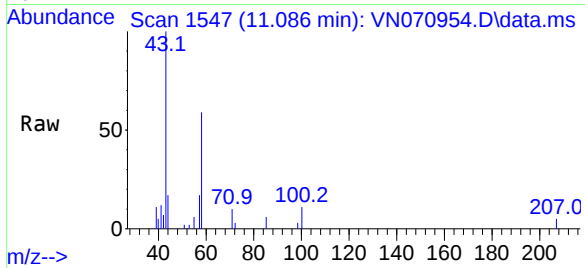




#59
2-Hexanone
Concen: 1.552 ug/l
RT: 11.086 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

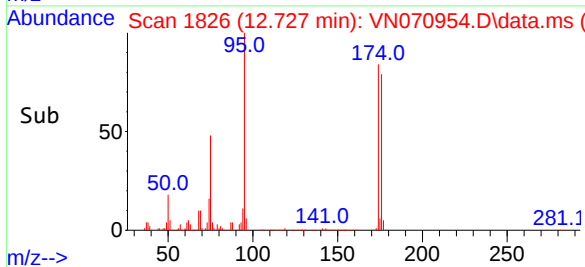
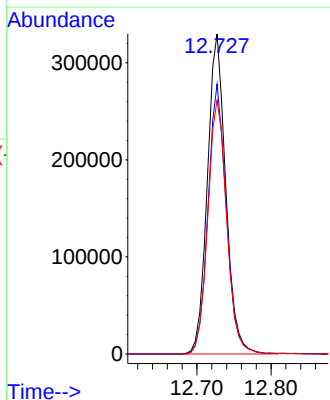
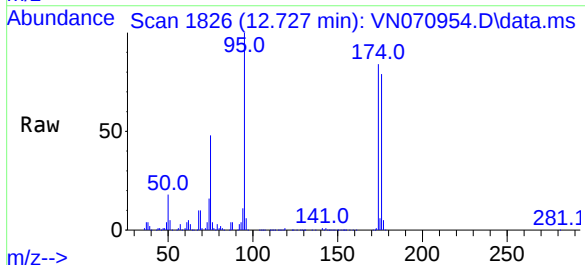
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

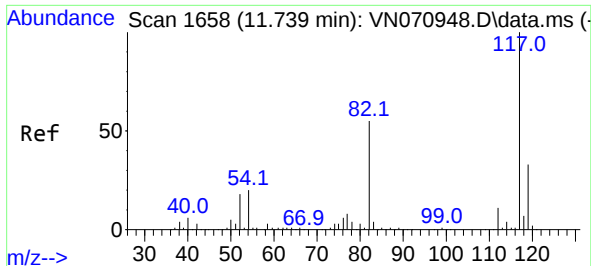
Tgt Ion: 43 Resp: 15935
Ion Ratio Lower Upper
43 100
58 55.5 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 44.640 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 95 Resp: 567848
Ion Ratio Lower Upper
95 100
174 84.0 0.0 187.2
176 81.5 0.0 181.4

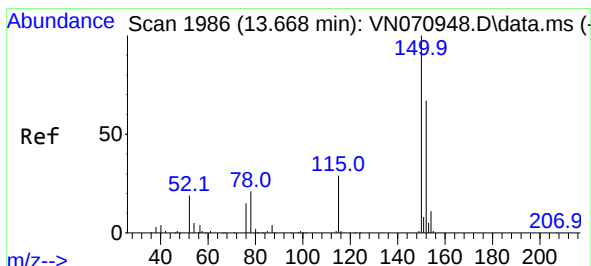
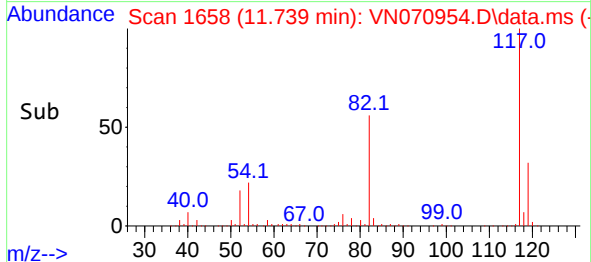
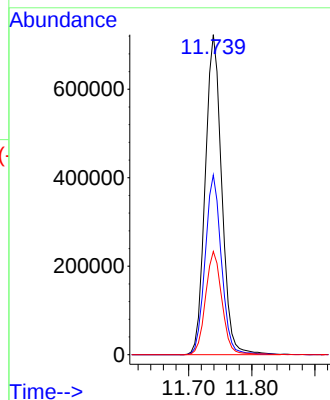
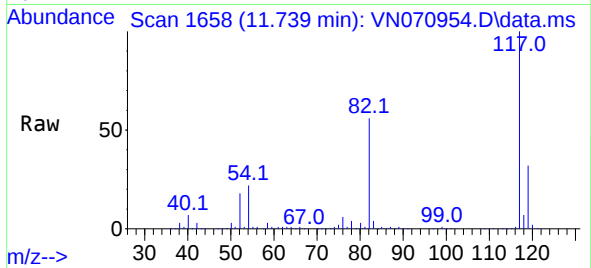




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

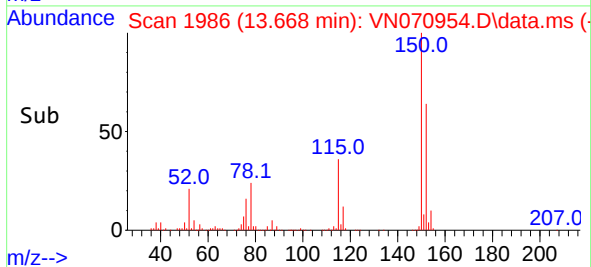
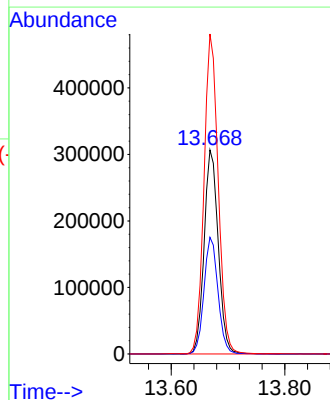
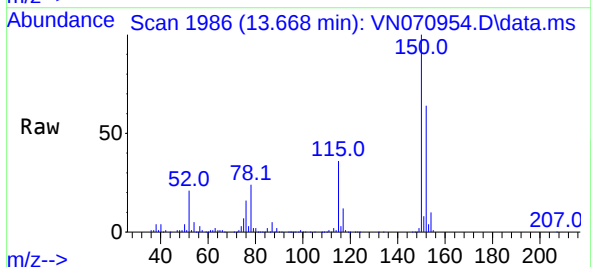
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

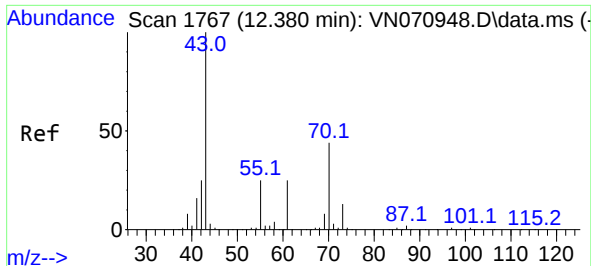
Tgt Ion:117 Resp: 1312883
Ion Ratio Lower Upper
117 100
82 56.2 42.4 63.6
119 32.3 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion:152 Resp: 527749
Ion Ratio Lower Upper
152 100
115 57.0 27.5 82.5
150 157.0 0.0 344.4

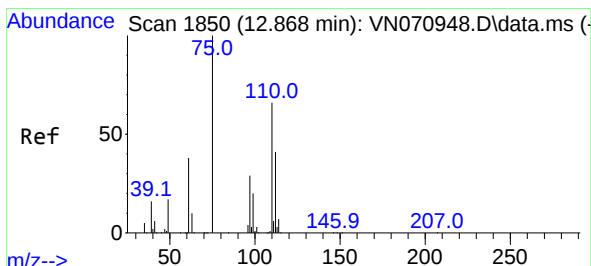
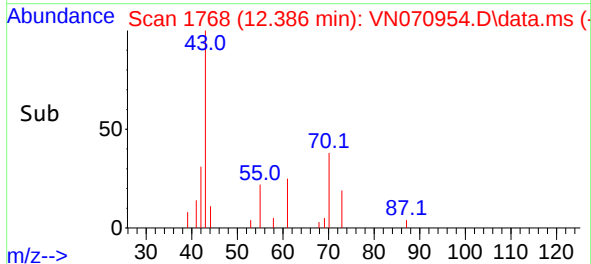
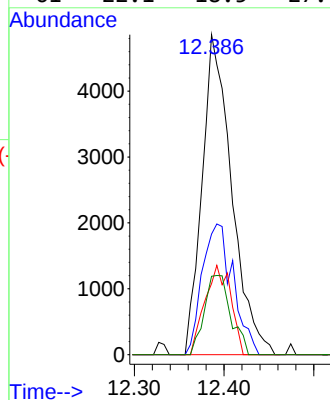
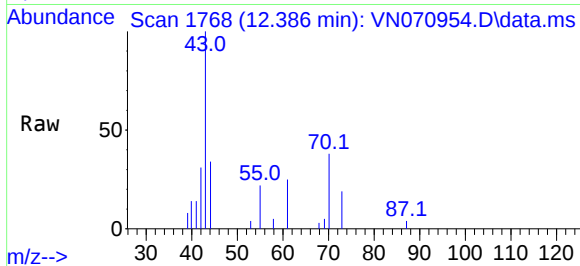




#74
N-amy1 acetate
Concen: 0.820 ug/l
RT: 12.386 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

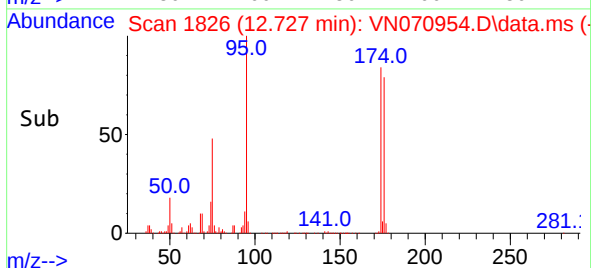
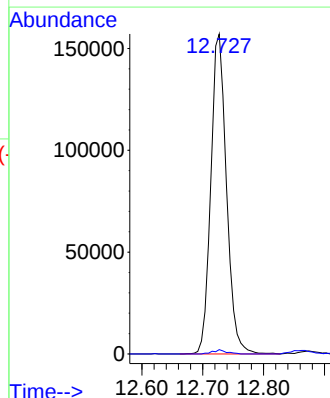
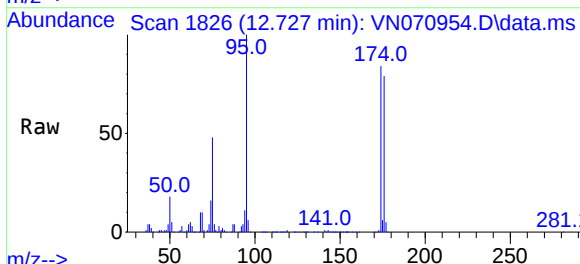
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

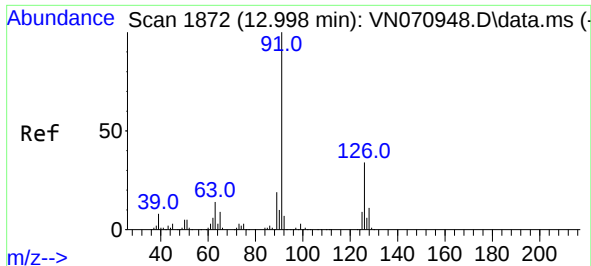
Tgt Ion:	43	Resp:	11138
Ion	Ratio	Lower	Upper
43	100		
70	42.4	33.4	50.0
55	24.3	19.3	28.9
61	22.1	18.5	27.7



#76
1,2,3-Trichloropropane
Concen: 22.606 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion:	75	Resp:	280906
Ion	Ratio	Lower	Upper
75	100		
77	1.2	82.6	247.8#

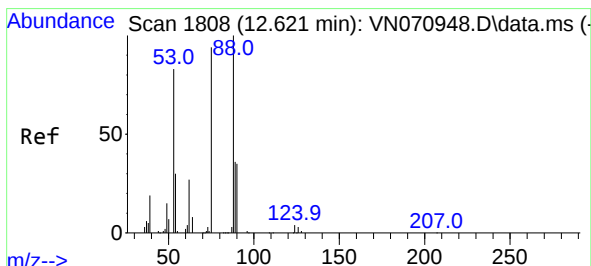
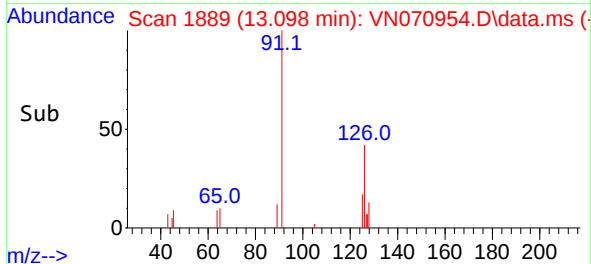
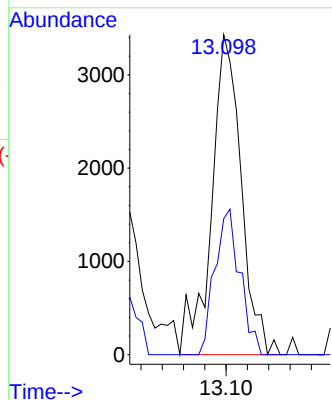
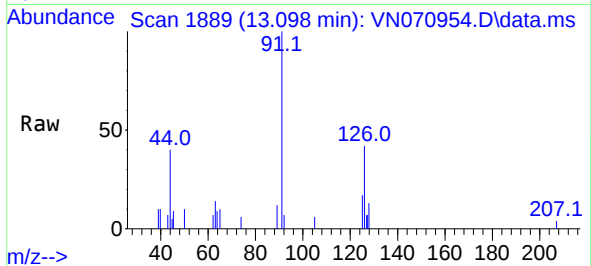




#79
2-Chlorotoluene
Concen: 0.229 ug/l
RT: 13.098 min Scan# 11
Delta R.T. 0.100 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

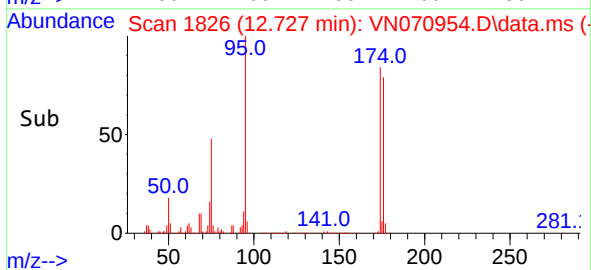
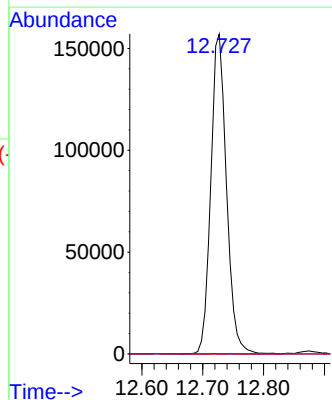
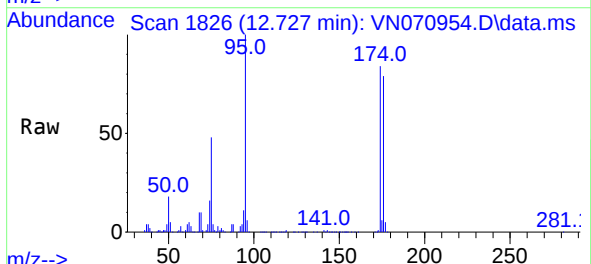
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

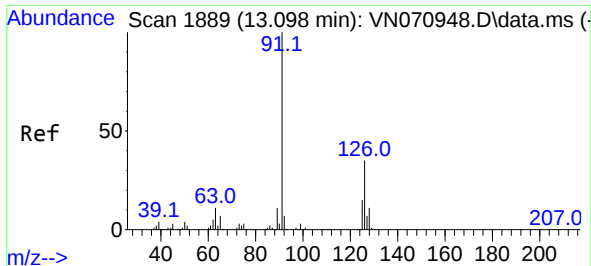
Tgt Ion: 91 Resp: 6638
Ion Ratio Lower Upper
91 100
126 38.5 18.3 54.8



#81
trans-1,4-Dichloro-2-butene
Concen: 73.255 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 75 Resp: 280906
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

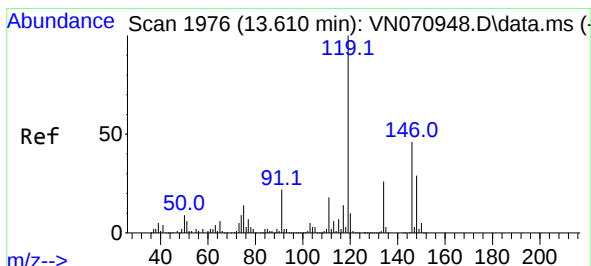
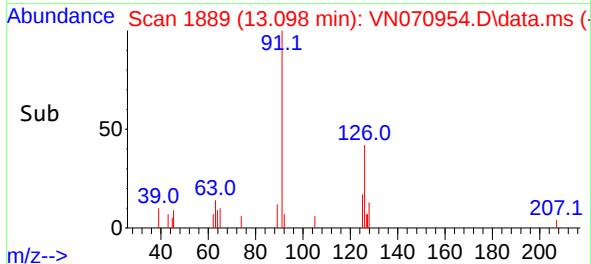
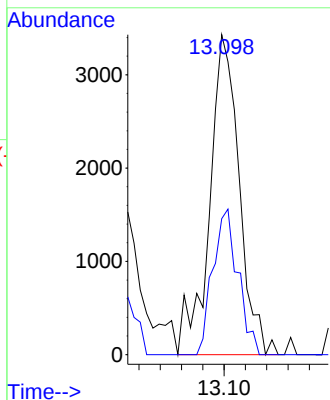
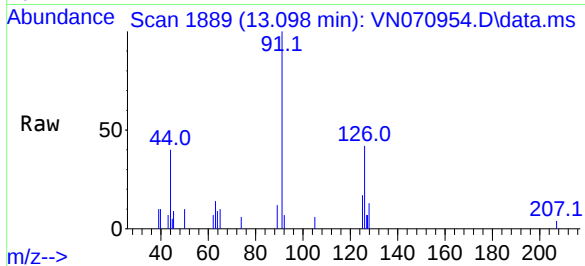




#82
4-Chlorotoluene
Concen: 0.236 ug/l
RT: 13.098 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

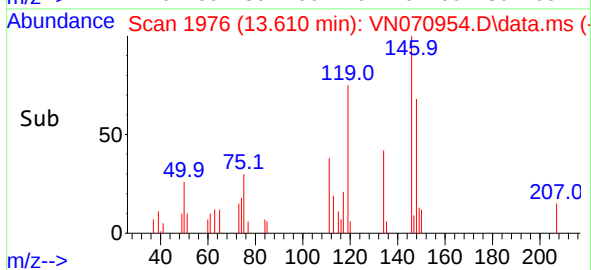
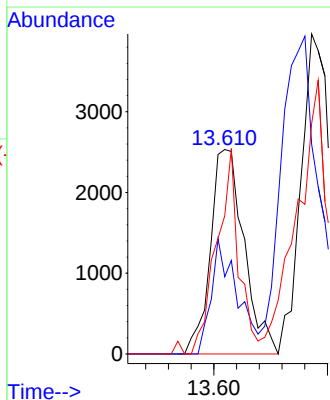
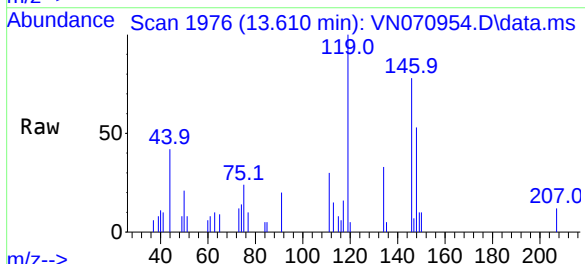
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

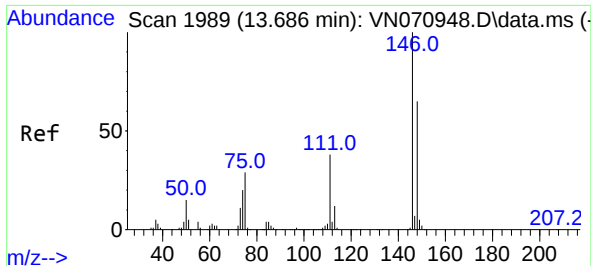
Tgt Ion: 91 Resp: 6638
Ion Ratio Lower Upper
91 100
126 38.5 18.2 54.6



#87
1,3-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.610 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 146 Resp: 5200
Ion Ratio Lower Upper
146 100
111 43.6 18.6 55.6
148 66.3 31.6 95.0

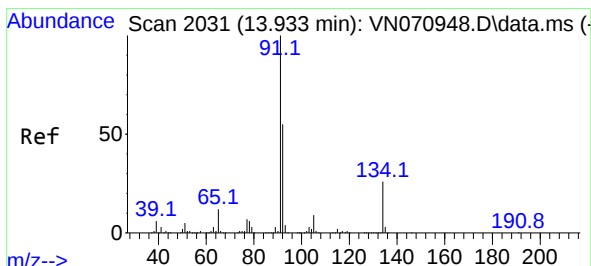
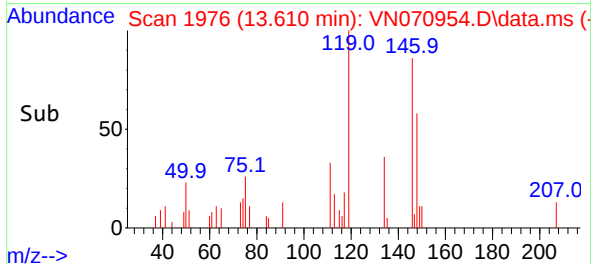
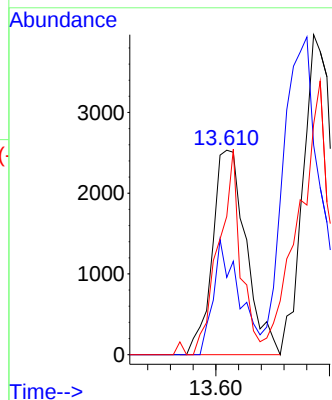
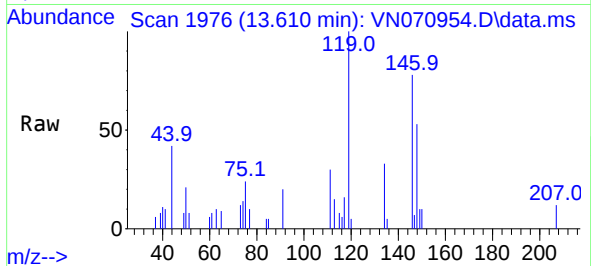




#88
1,4-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.610 min Scan# 1989
Delta R.T. -0.077 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

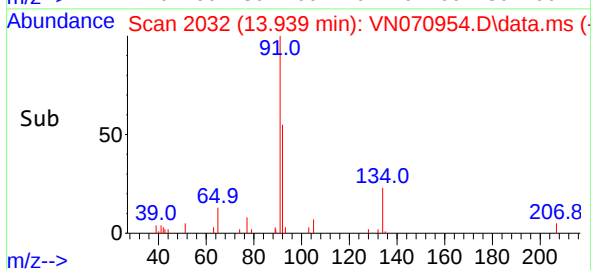
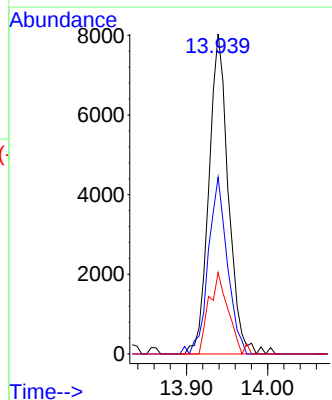
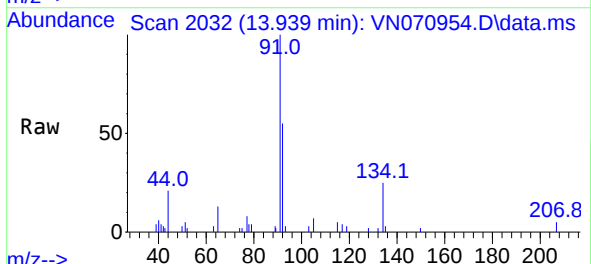
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

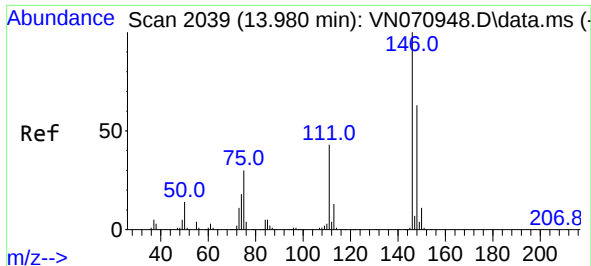
Tgt Ion:146 Resp: 5200
Ion Ratio Lower Upper
146 100
111 43.6 18.3 54.8
148 66.3 31.8 95.4



#89
n-Butylbenzene
Concen: 0.465 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion: 91 Resp: 13403
Ion Ratio Lower Upper
91 100
92 54.0 25.4 76.0
134 25.2 13.6 40.8





#91

1,2-Dichlorobenzene

Concen: 0.378 ug/l

RT: 13.986 min Scan# 2039

Delta R.T. 0.006 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

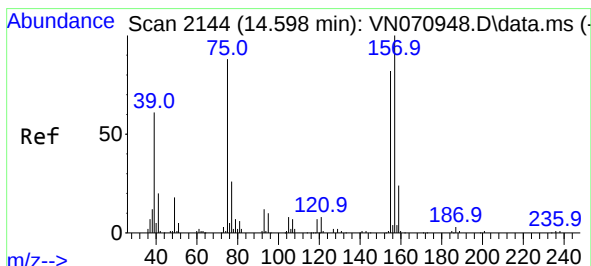
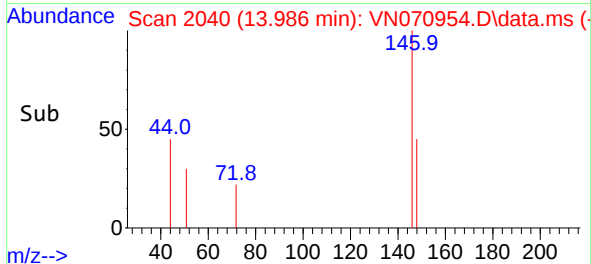
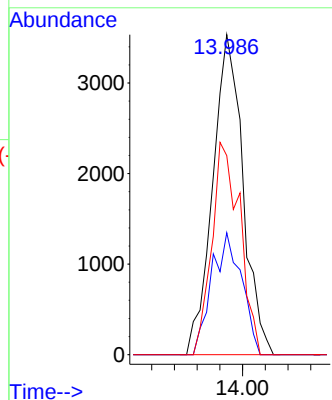
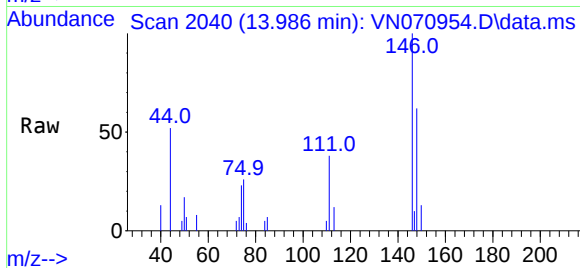
Tgt Ion:146 Resp: 6534

Ion Ratio Lower Upper

146 100

111 37.6 19.1 57.3

148 61.5 32.1 96.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.728 ug/l

RT: 14.598 min Scan# 2144

Delta R.T. -0.000 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

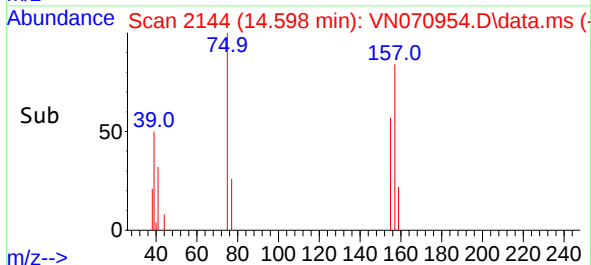
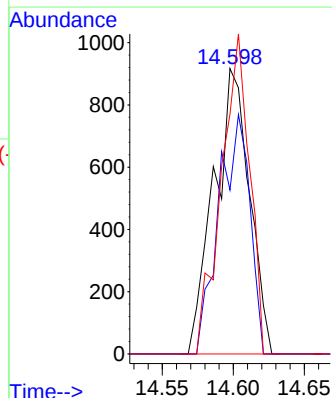
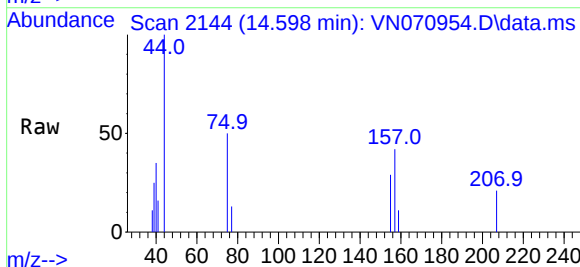
Tgt Ion: 75 Resp: 1592

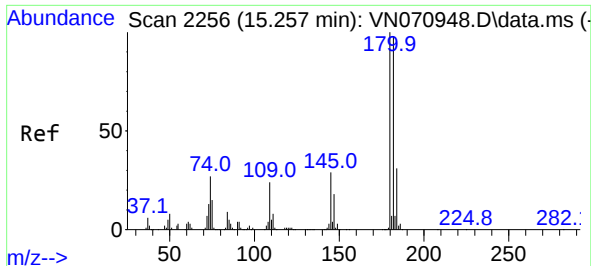
Ion Ratio Lower Upper

75 100

155 73.1 46.9 140.7

157 89.2 60.6 181.7





#93

1,2,4-Trichlorobenzene

Concen: 3.290 ug/l

RT: 15.262 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

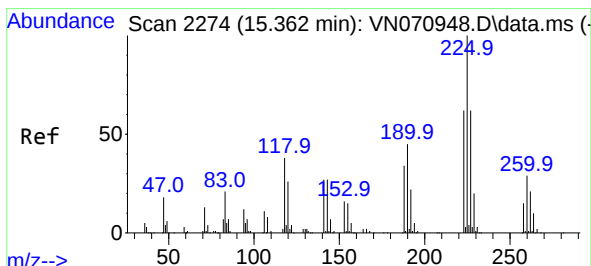
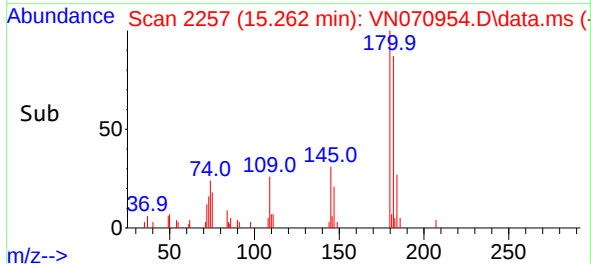
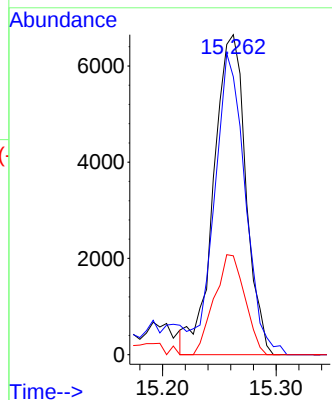
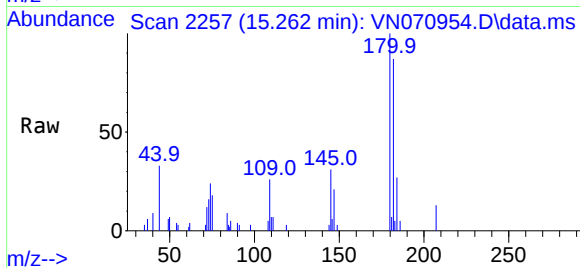
Tgt Ion:180 Resp: 13071

Ion Ratio Lower Upper

180 100

182 89.8 48.3 144.9

145 29.6 14.5 43.5



#94

Hexachlorobutadiene

Concen: 0.253 ug/l

RT: 15.356 min Scan# 2273

Delta R.T. -0.006 min

Lab File: VN070954.D

Acq: 16 Feb 2022 13:22

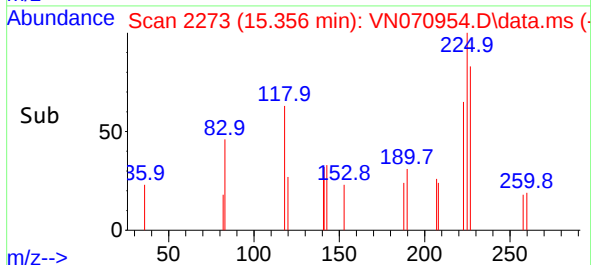
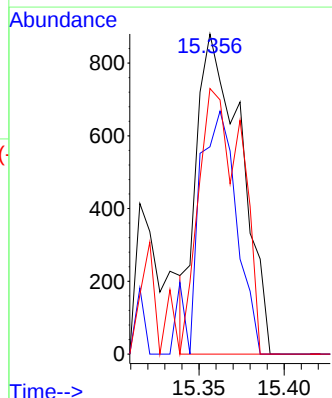
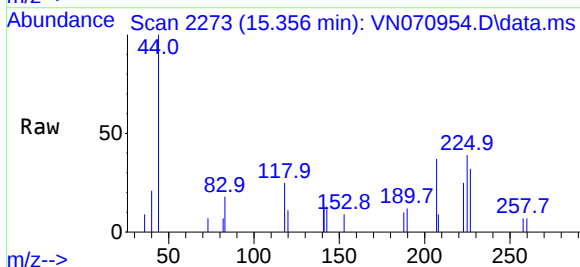
Tgt Ion:225 Resp: 1593

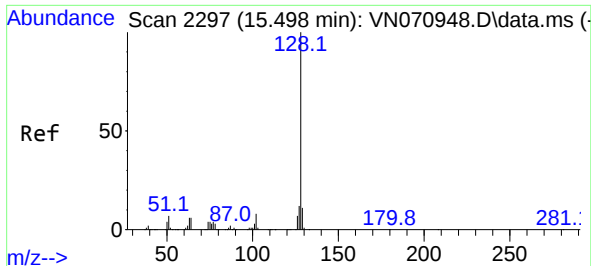
Ion Ratio Lower Upper

225 100

223 66.0 31.9 95.7

227 80.4 32.1 96.3

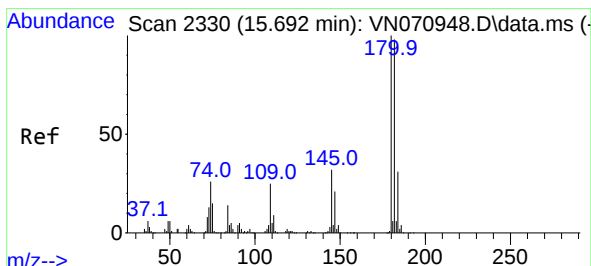
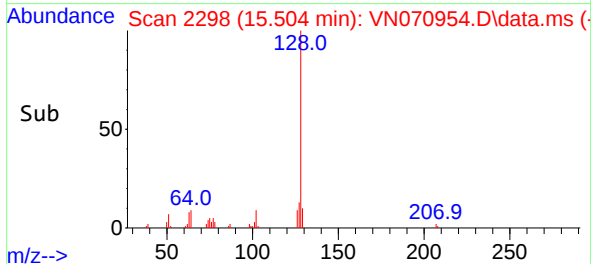
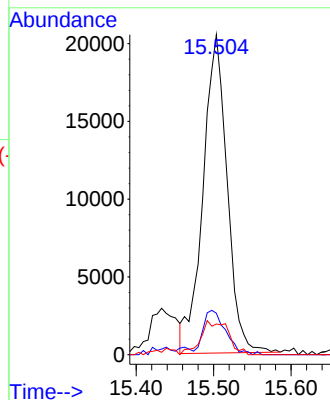
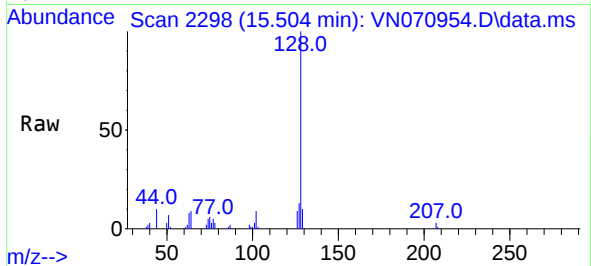




#95
Naphthalene
Concen: 6.683 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:	128	Resp:	44386
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	12.1	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 4.104 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN070954.D
Acq: 16 Feb 2022 13:22

Tgt Ion:	180	Resp:	14975
Ion	Ratio	Lower	Upper
180	100		
182	91.1	47.4	142.2
145	28.8	15.0	45.1

