

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120821\
 Data File : VN069894.D
 Acq On : 9 Dec 2021 6:02
 Operator : JC/MD
 Sample : M4959-11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3S

Quant Time: Dec 09 11:59:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

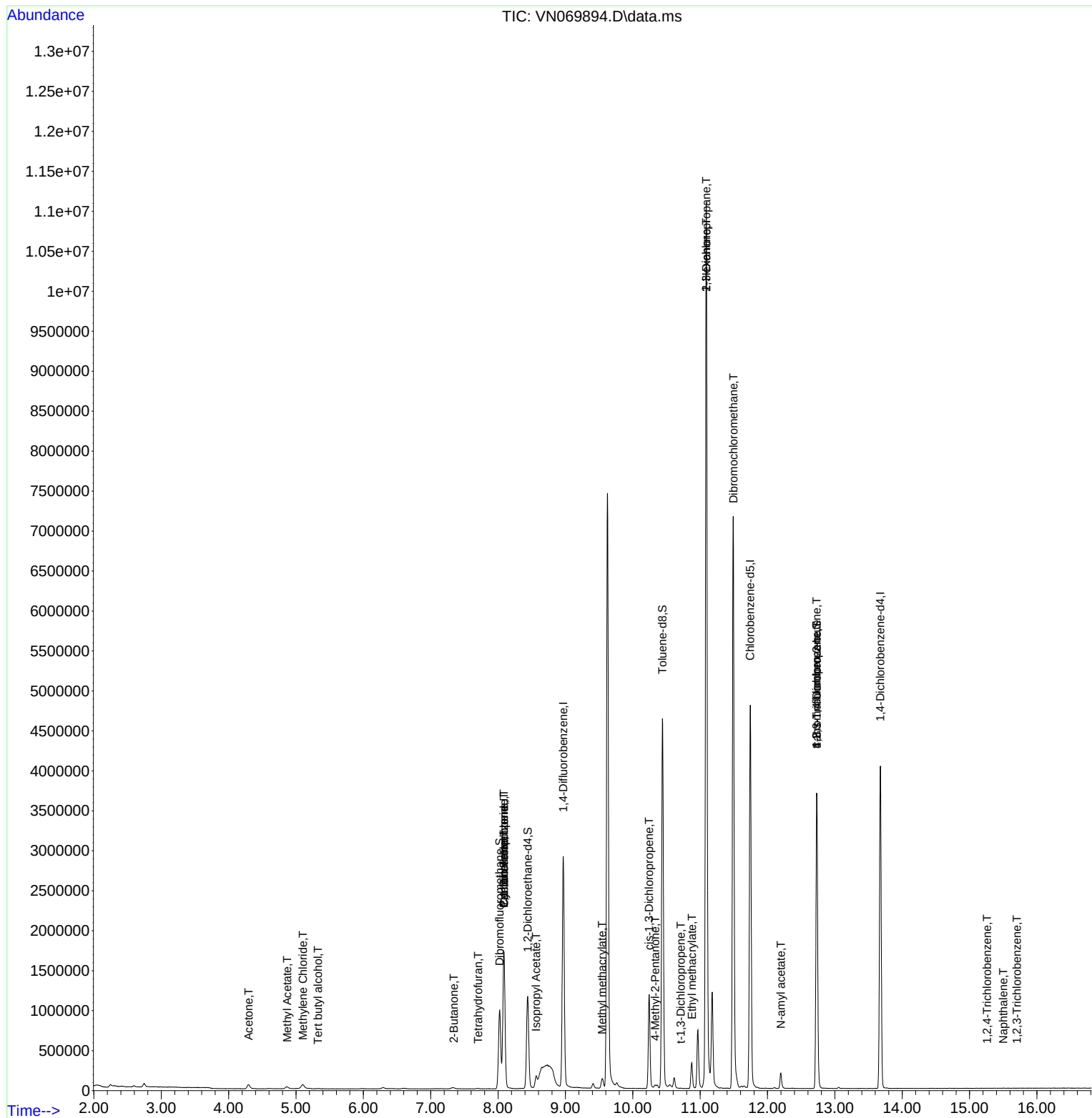
Internal Standards						
1) Pentafluorobenzene	8.088	168	1261446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2404728	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2667981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1070191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1012080	51.964	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 103.920%			
35) Dibromofluoromethane	8.024	113	707091	46.943	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 93.880%			
50) Toluene-d8	10.440	98	3120070	51.587	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 103.180%			
62) 4-Bromofluorobenzene	12.731	95	1283698	58.586	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 117.180%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.326	59	3373	0.916	ug/l #	71
16) Acetone	4.296	43	97289	8.304	ug/l	90
18) Methyl Acetate	4.870	43	54117	1.530	ug/l	90
20) Methylene Chloride	5.103	84	35366	2.271	ug/l	84
25) 2-Butanone	7.343	43	15877	0.997	ug/l	93
29) Tetrahydrofuran	7.702	42	5159	0.534	ug/l #	56
31) Cyclohexane	8.086	56	31930	1.178	ug/l #	26
36) 1,1-Dichloropropene	8.086	75	110260	4.816	ug/l #	49
38) Carbon Tetrachloride	8.088	117	131206	5.845	ug/l #	16
43) Isopropyl Acetate	8.563	43	176521	3.501	ug/l #	80
48) Methyl methacrylate	9.545	41	37128	1.578	ug/l #	8
51) 4-Methyl-2-Pentanone	10.333	43	25577	0.782	ug/l	99
53) t-1,3-Dichloropropene	10.711	75	92	2.797	ug/l #	53
54) cis-1,3-Dichloropropene	10.242	75	187913	8.123	ug/l #	71
56) Ethyl methacrylate	10.878	69	1886	2.335	ug/l #	1
57) 1,3-Dichloropropane	11.089	76	110832	3.652	ug/l #	43
59) 2-Hexanone	11.089	43	2004187	80.997	ug/l #	47
60) Dibromochloromethane	11.494	129	967	2.426	ug/l #	11
74) N-amyl acetate	12.197	43	70648	1.678	ug/l #	52
76) 1,2,3-Trichloropropane	12.731	75	712799	23.225	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	712799	73.901	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.260	180	55	2.881	ug/l #	13
95) Naphthalene	15.501	128	685	3.997	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.702	180	24	2.437	ug/l #	1

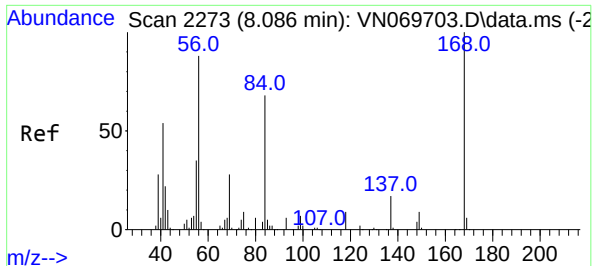
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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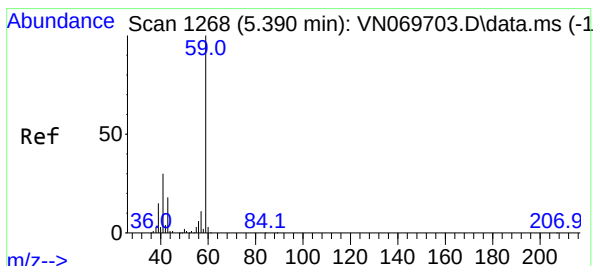
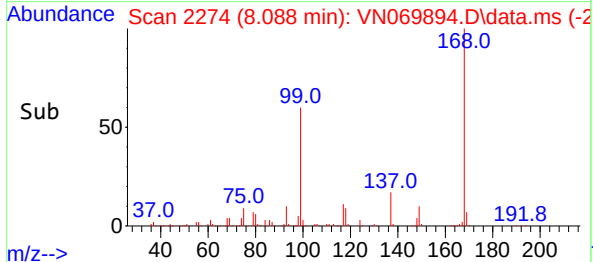
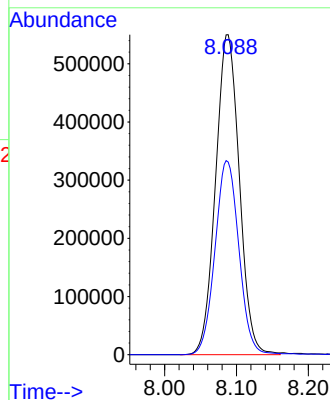
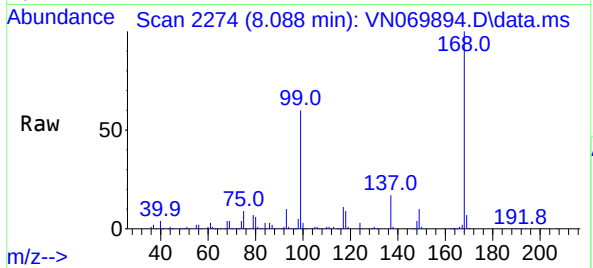




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

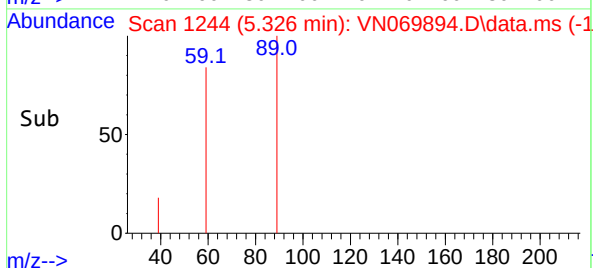
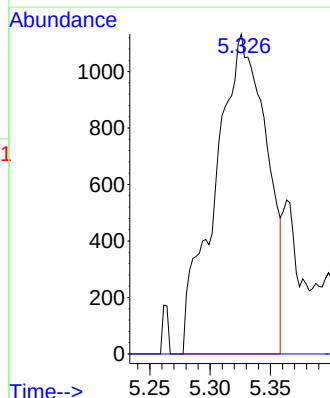
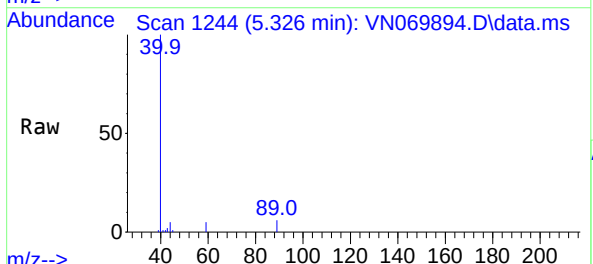
Instrument :
MSVOA_N
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TP-3S

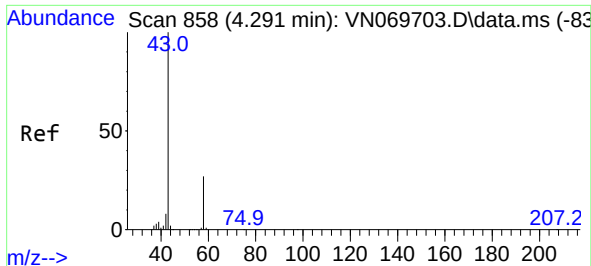
Tgt Ion:168 Resp: 1261446
Ion Ratio Lower Upper
168 100
99 60.2 41.3 61.9



#11
Tert butyl alcohol
Concen: 0.916 ug/l
RT: 5.326 min Scan# 1244
Delta R.T. -0.064 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 59 Resp: 3373
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

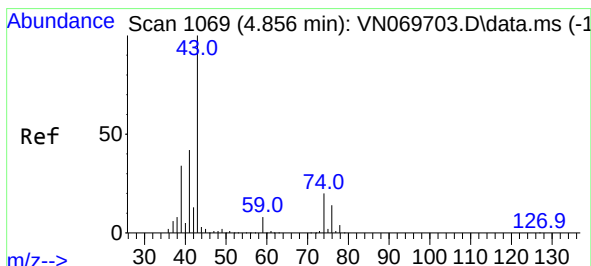
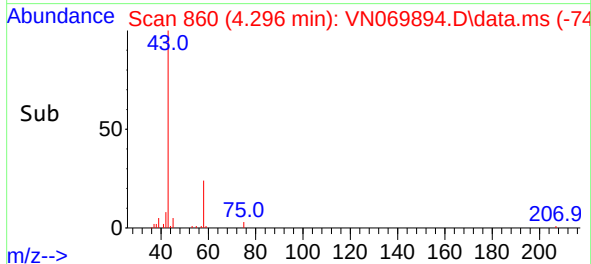
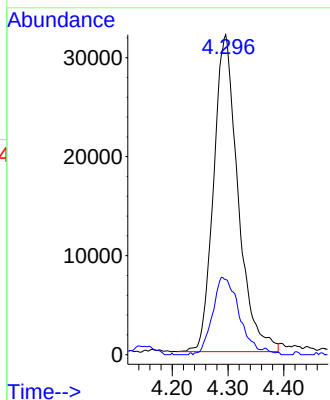
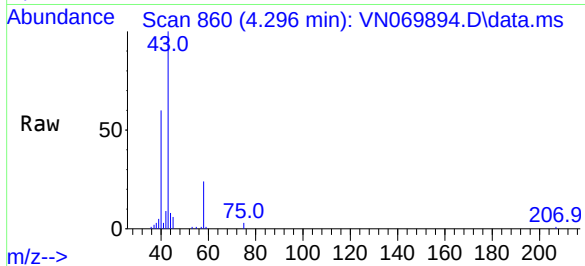




#16
Acetone
Concen: 8.304 ug/l
RT: 4.296 min Scan# 80
Delta R.T. 0.005 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

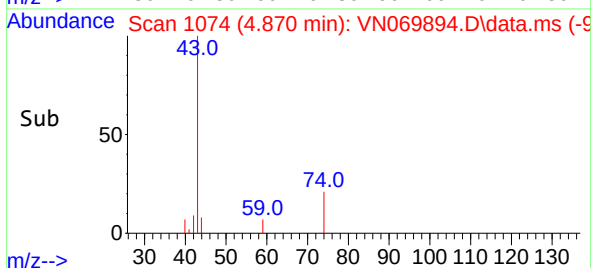
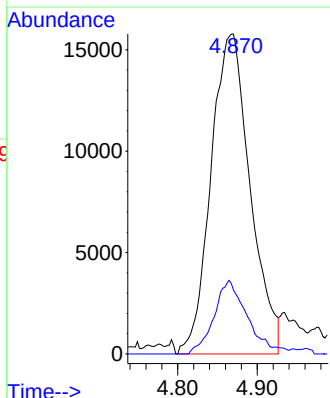
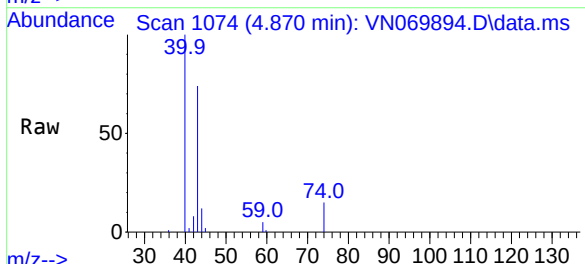
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

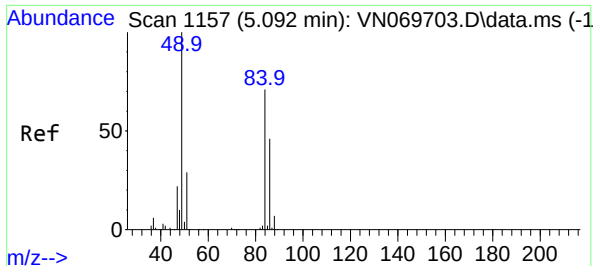
Tgt Ion: 43 Resp: 97289
Ion Ratio Lower Upper
43 100
58 23.7 23.1 34.7



#18
Methyl Acetate
Concen: 1.530 ug/l
RT: 4.870 min Scan# 1074
Delta R.T. 0.013 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 43 Resp: 54117
Ion Ratio Lower Upper
43 100
74 19.6 19.4 29.2



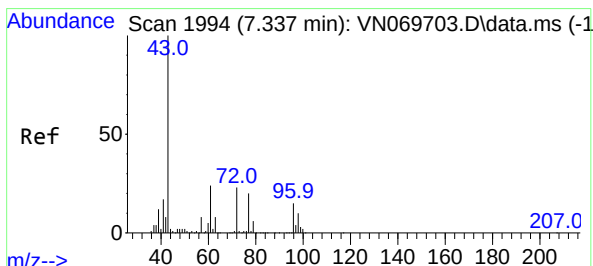
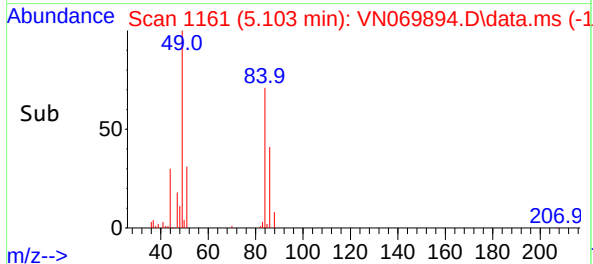
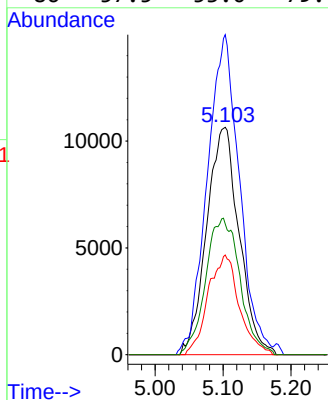
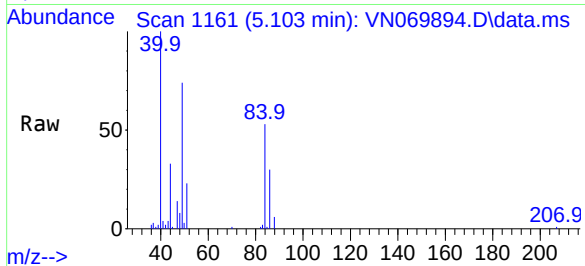


#20
Methylene Chloride
Concen: 2.271 ug/l
RT: 5.103 min Scan# 1157
Delta R.T. 0.011 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Instrument :
MSVOA_N
ClientSampleId :
TP-3S

Tgt Ion: 84 Resp: 35366

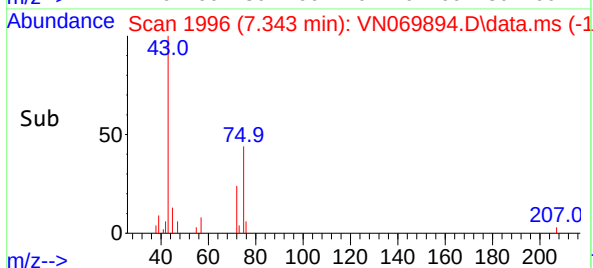
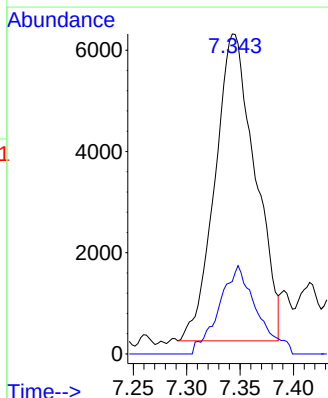
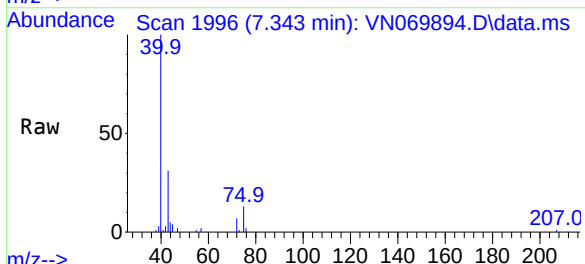
Ion	Ratio	Lower	Upper
84	100		
49	139.1	93.5	140.3
51	43.8	29.4	44.2
86	57.5	53.0	79.4

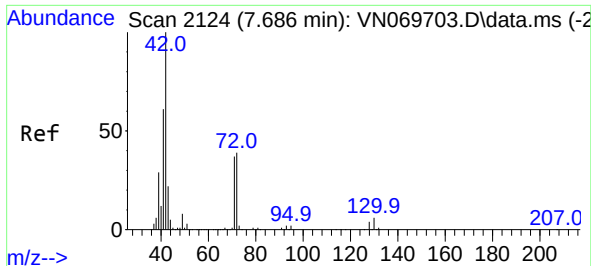


#25
2-Butanone
Concen: 0.997 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. 0.005 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 43 Resp: 15877

Ion	Ratio	Lower	Upper
43	100		
72	23.6	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.534 ug/l

RT: 7.702 min Scan# 21

Delta R.T. 0.016 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

Instrument :

MSVOA_N

ClientSampleId :

TP-3S

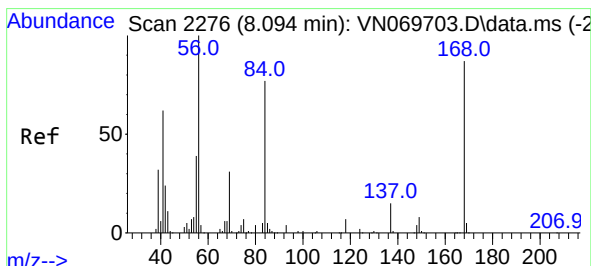
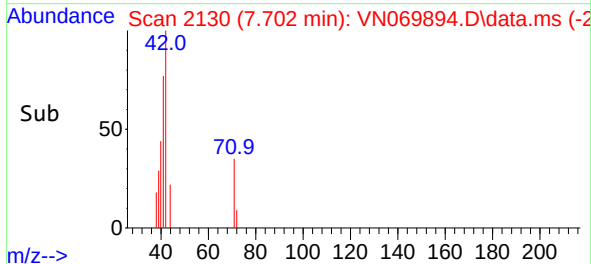
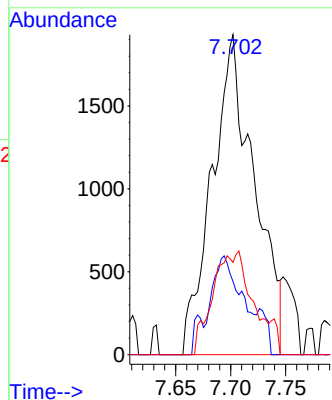
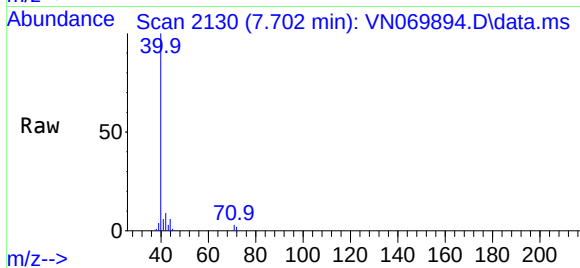
Tgt Ion: 42 Resp: 5159

Ion Ratio Lower Upper

42 100

72 15.8 36.3 54.5#

71 16.2 34.7 52.1#



#31

Cyclohexane

Concen: 1.178 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

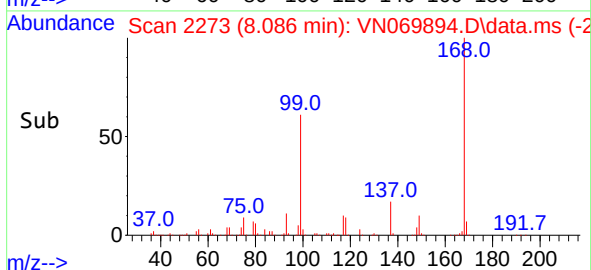
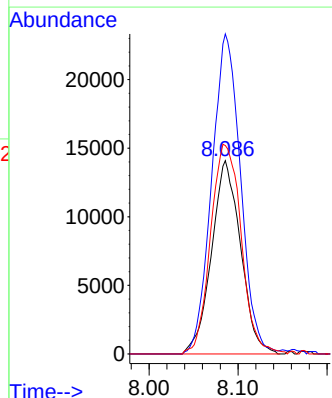
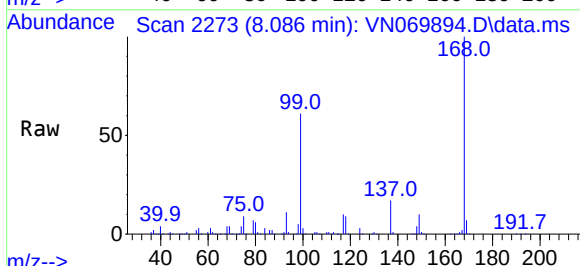
Tgt Ion: 56 Resp: 31930

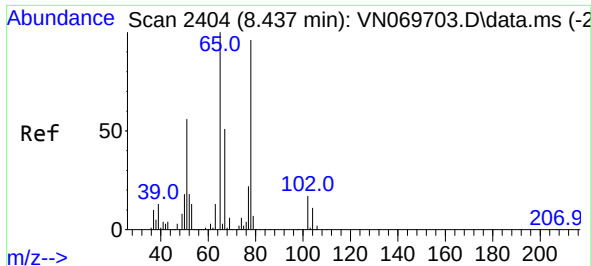
Ion Ratio Lower Upper

56 100

69 165.5 27.1 40.7#

84 107.9 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.964 ug/l

RT: 8.440 min Scan# 2404

Delta R.T. 0.003 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

Instrument :

MSVOA_N

ClientSampleId :

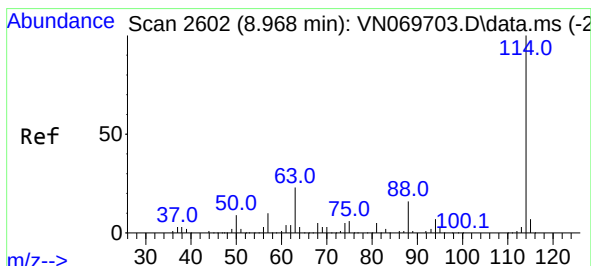
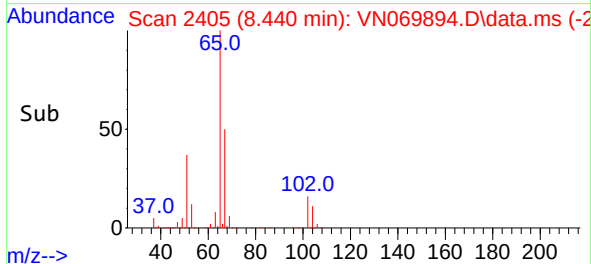
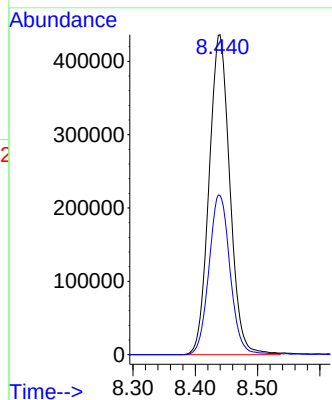
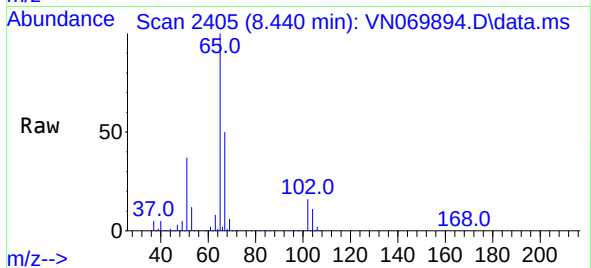
TP-3S

Tgt Ion: 65 Resp: 1012080

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

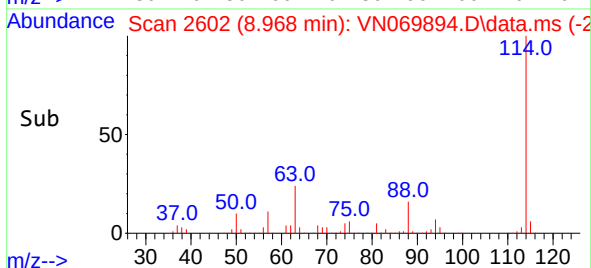
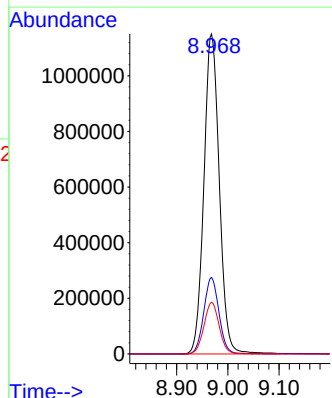
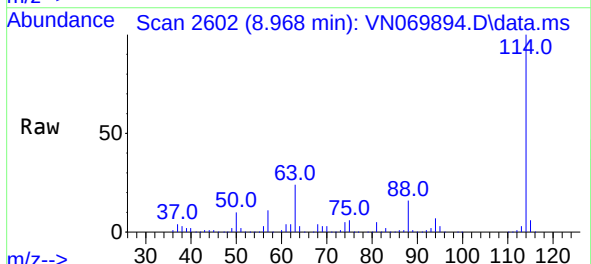
Tgt Ion: 114 Resp: 2404728

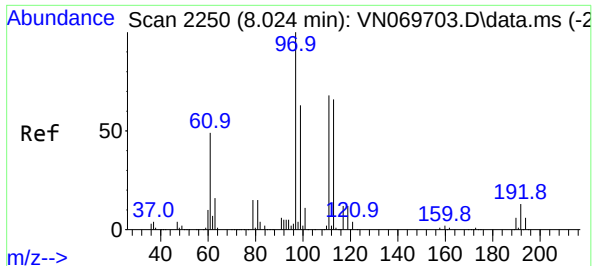
Ion Ratio Lower Upper

114 100

63 23.9 0.0 37.8

88 16.2 0.0 27.4

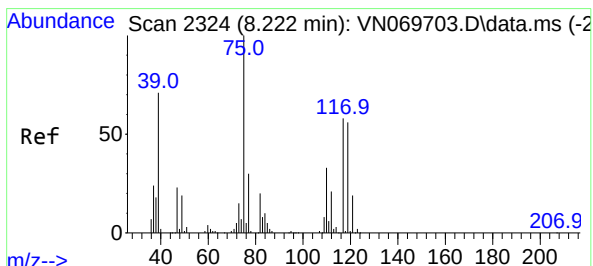
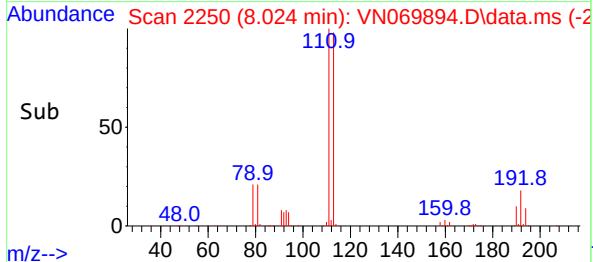
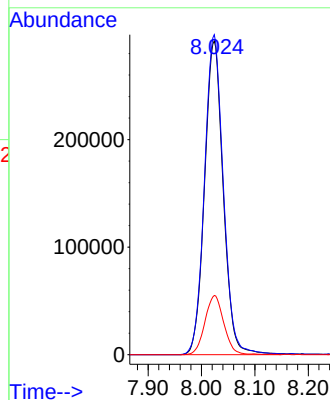
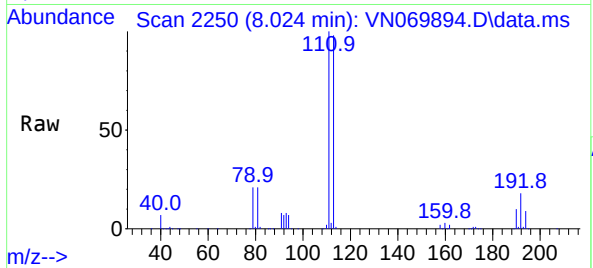




#35
Dibromofluoromethane
Concen: 46.943 ug/l
RT: 8.024 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

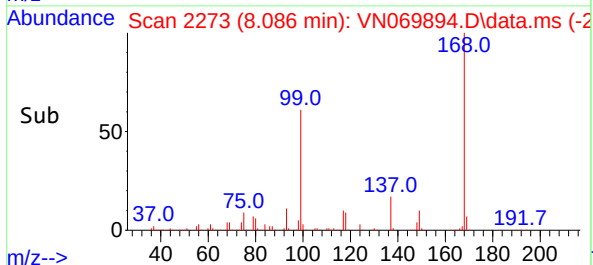
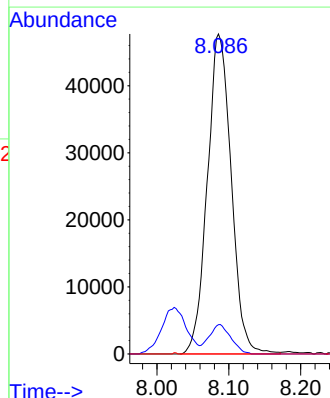
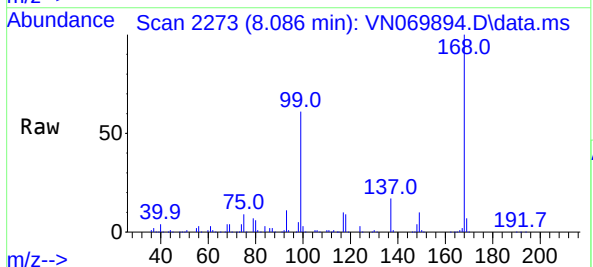
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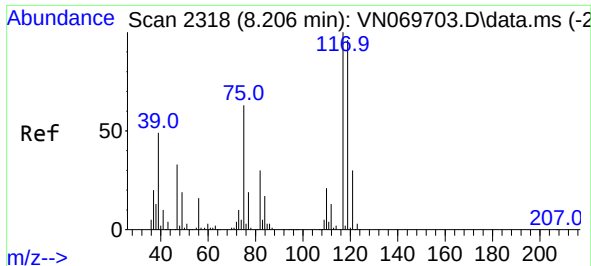
Tgt Ion:113 Resp: 707091
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.2
192 19.0 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.816 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 75 Resp: 110260
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 24.4 36.6#

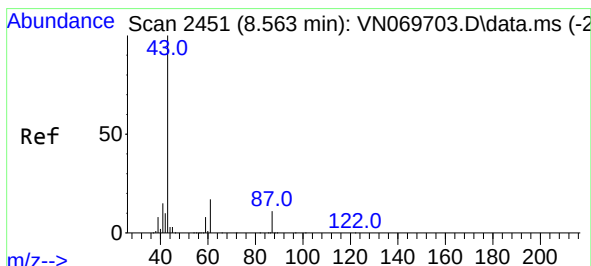
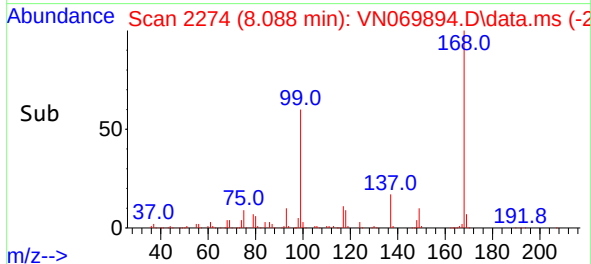
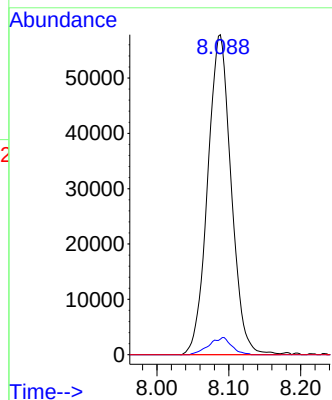
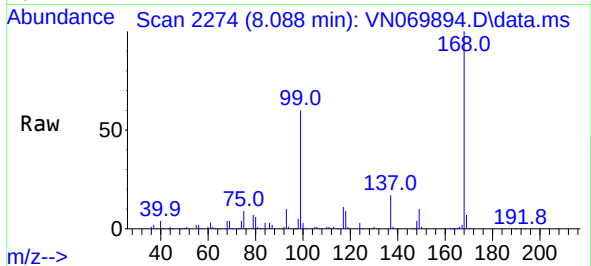




#38
Carbon Tetrachloride
Concen: 5.845 ug/l
RT: 8.088 min Scan# 2117
Delta R.T. -0.118 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

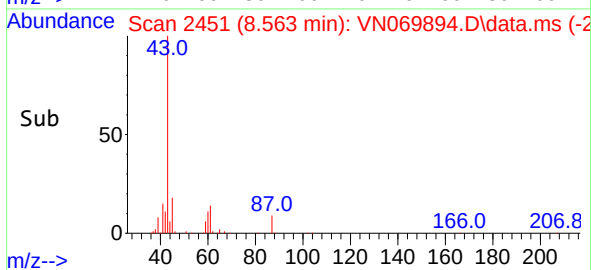
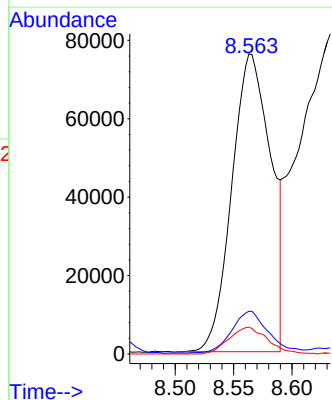
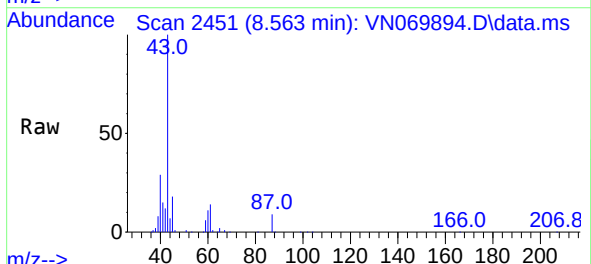
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

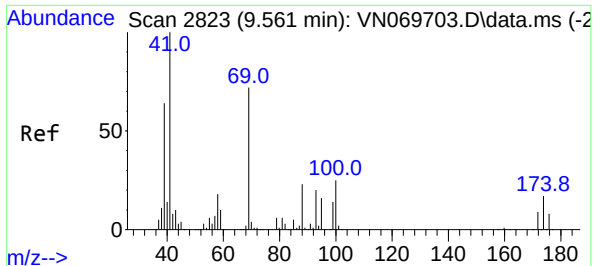
Tgt Ion:117 Resp: 131206
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 3.501 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.000 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 43 Resp: 176521
Ion Ratio Lower Upper
43 100
61 13.3 20.4 30.6#
87 8.9 11.2 16.8#





#48

Methyl methacrylate

Concen: 1.578 ug/l

RT: 9.545 min Scan# 2817

Delta R.T. -0.016 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

Instrument :

MSVOA_N

ClientSampleId :

TP-3S

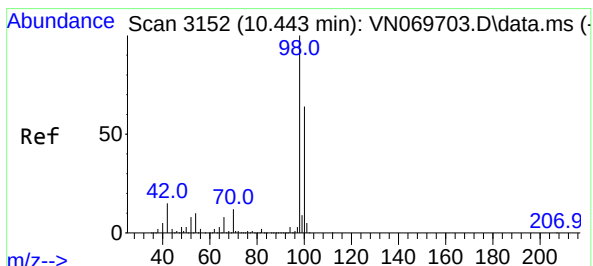
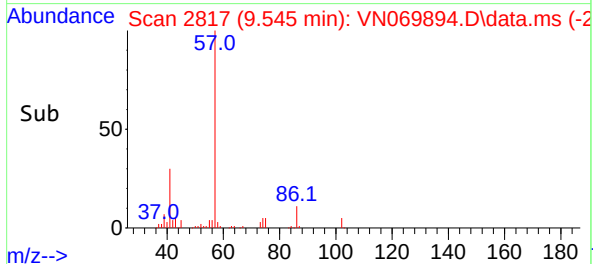
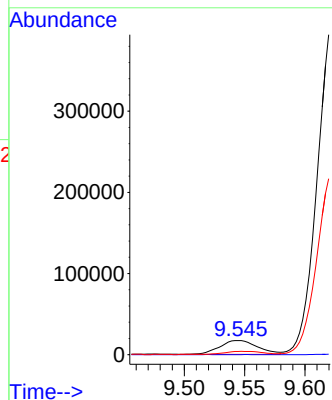
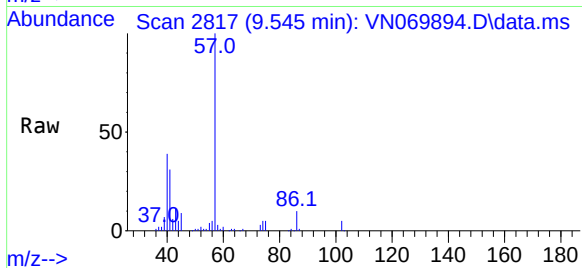
Tgt Ion: 41 Resp: 37128

Ion Ratio Lower Upper

41 100

69 0.2 72.4 108.6#

39 0.0 58.4 87.6#



#50

Toluene-d8

Concen: 51.587 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. -0.003 min

Lab File: VN069894.D

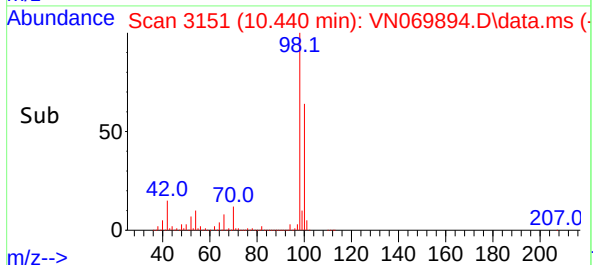
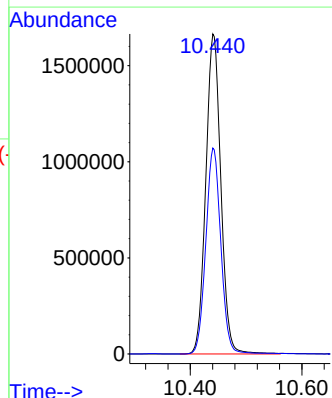
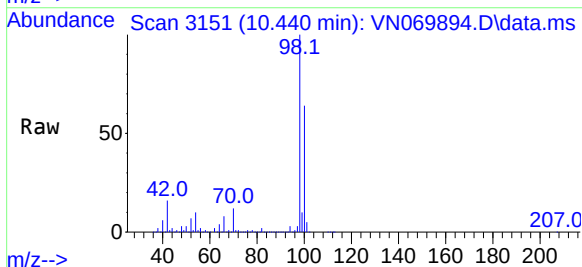
Acq: 9 Dec 2021 6:02

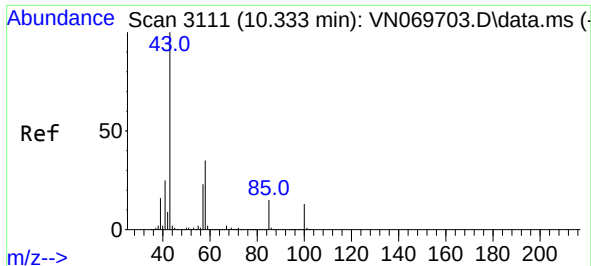
Tgt Ion: 98 Resp: 3120070

Ion Ratio Lower Upper

98 100

100 64.1 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.782 ug/l

RT: 10.333 min Scan# 3111

Delta R.T. 0.000 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

Instrument :

MSVOA_N

ClientSampleId :

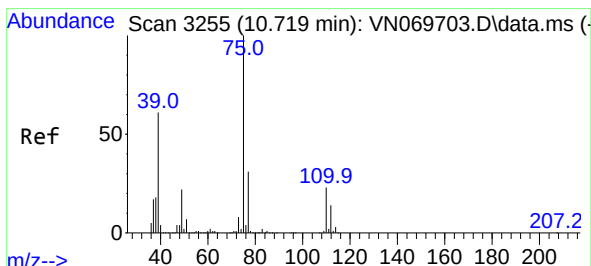
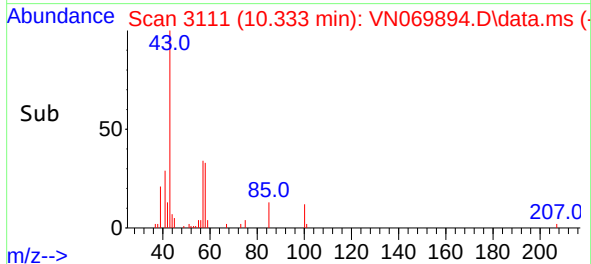
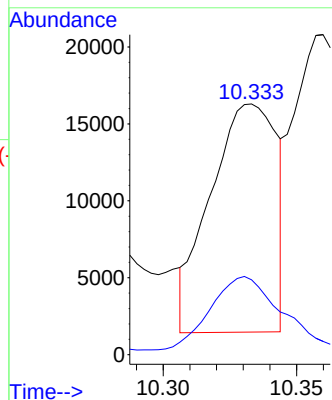
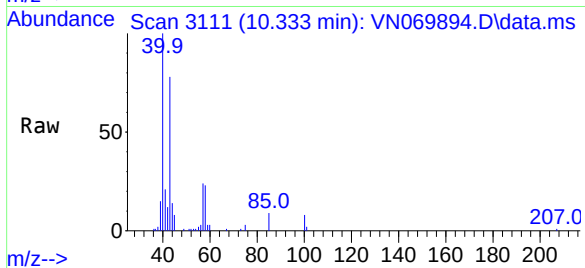
TP-3S

Tgt Ion: 43 Resp: 25577

Ion Ratio Lower Upper

43 100

58 37.1 30.4 45.6



#53

t-1,3-Dichloropropene

Concen: 2.797 ug/l

RT: 10.711 min Scan# 3252

Delta R.T. -0.008 min

Lab File: VN069894.D

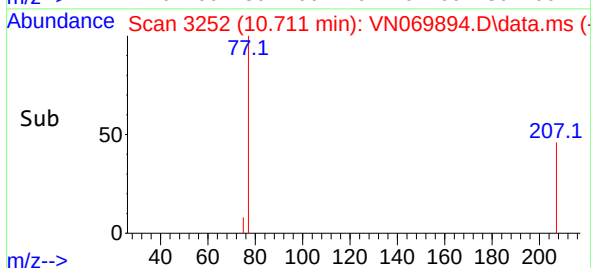
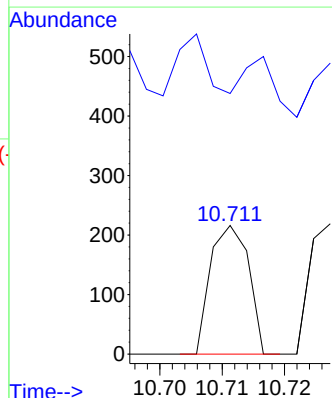
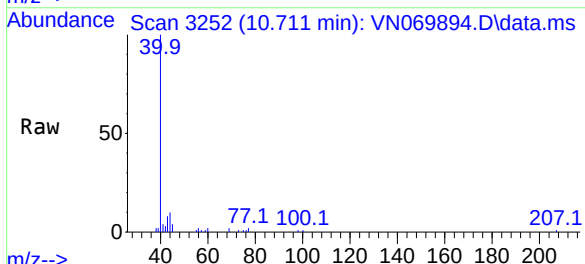
Acq: 9 Dec 2021 6:02

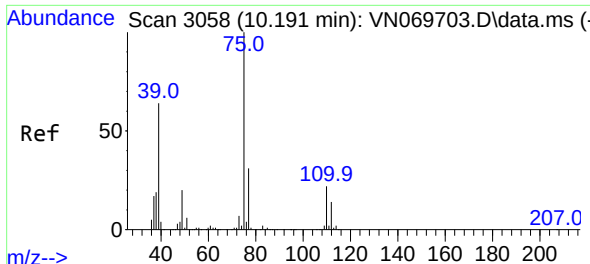
Tgt Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

77 6.0 25.6 38.4#

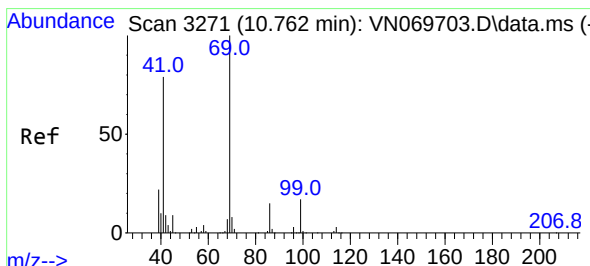
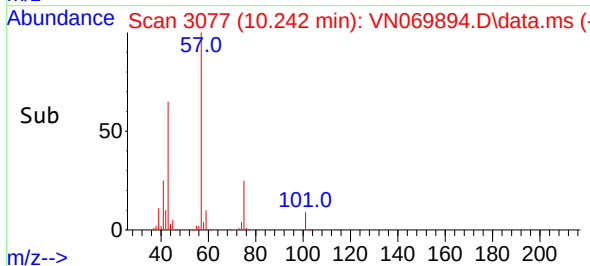
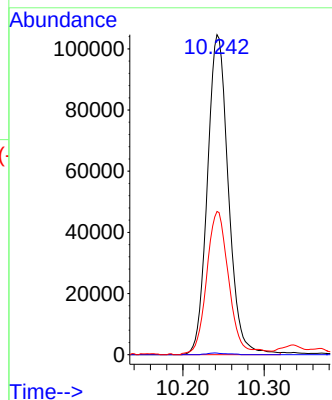
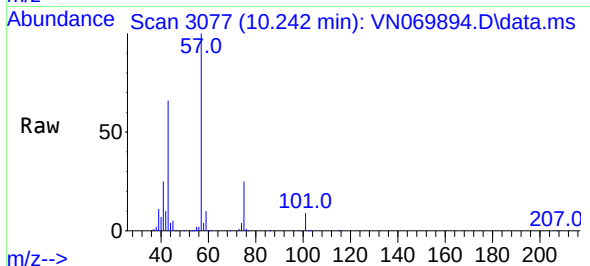




#54
cis-1,3-Dichloropropene
Concen: 8.123 ug/l
RT: 10.242 min Scan# 3058
Delta R.T. 0.051 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

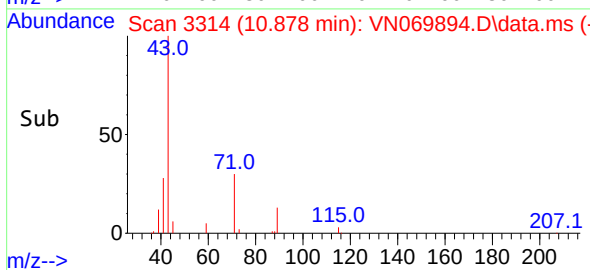
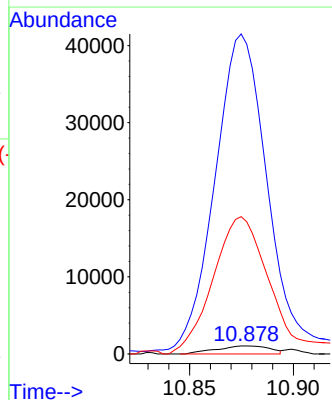
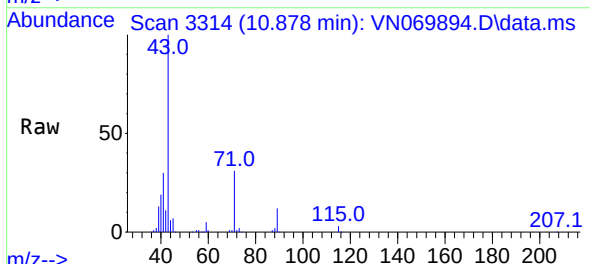
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

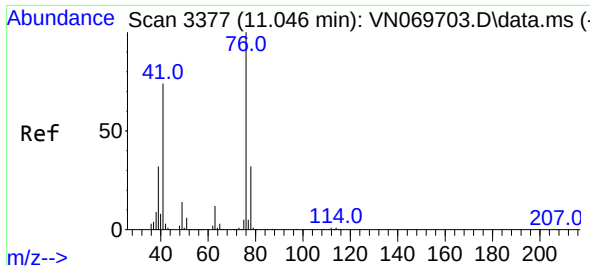
Tgt Ion: 75 Resp: 187913
Ion Ratio Lower Upper
75 100
77 0.5 26.4 39.6#
39 44.8 42.5 63.7



#56
Ethyl methacrylate
Concen: 2.335 ug/l
RT: 10.878 min Scan# 3314
Delta R.T. 0.116 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 69 Resp: 1886
Ion Ratio Lower Upper
69 100
41 3845.6 51.4 77.0#
39 1819.2 34.6 52.0#





#57

1,3-Dichloropropane

Concen: 3.652 ug/l

RT: 11.089 min Scan# 31

Delta R.T. 0.043 min

Lab File: VN069894.D

Acq: 9 Dec 2021 6:02

Instrument :

MSVOA_N

ClientSampleId :

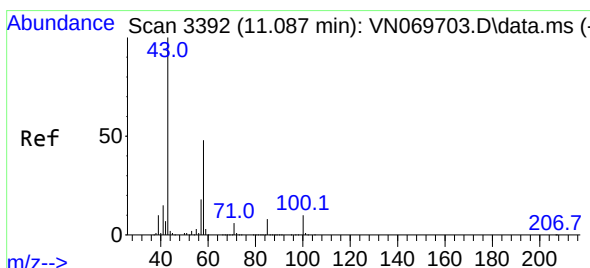
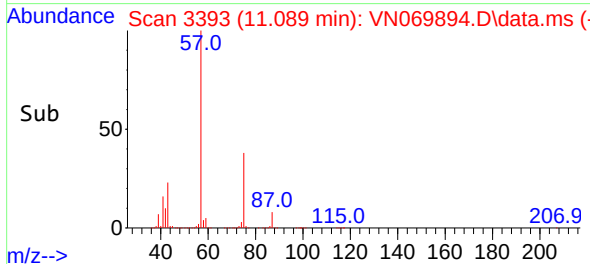
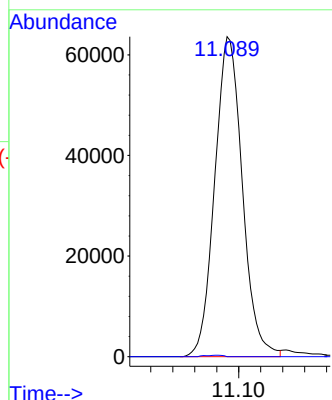
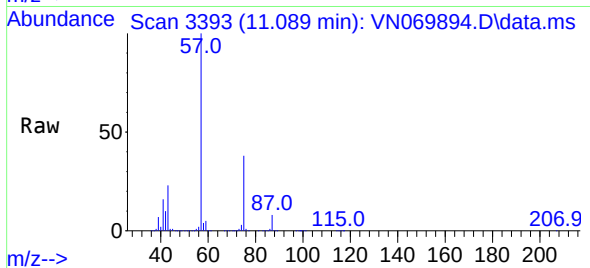
TP-3S

Tgt Ion: 76 Resp: 110832

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



#59

2-Hexanone

Concen: 80.997 ug/l

RT: 11.089 min Scan# 3393

Delta R.T. 0.002 min

Lab File: VN069894.D

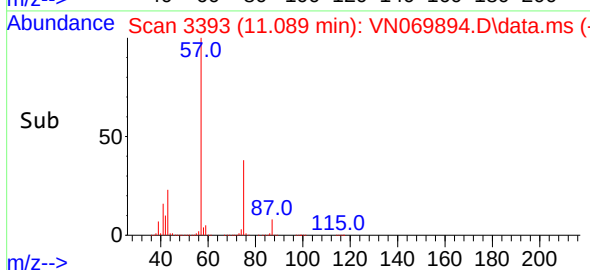
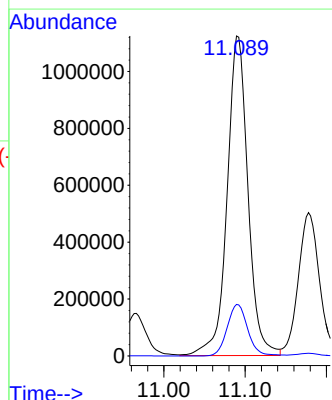
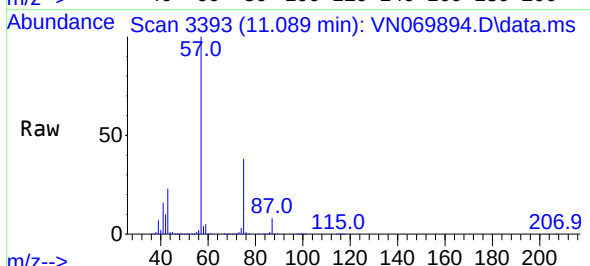
Acq: 9 Dec 2021 6:02

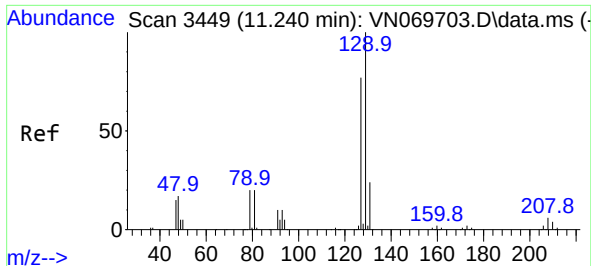
Tgt Ion: 43 Resp: 2004187

Ion Ratio Lower Upper

43 100

58 16.0 26.9 80.7#

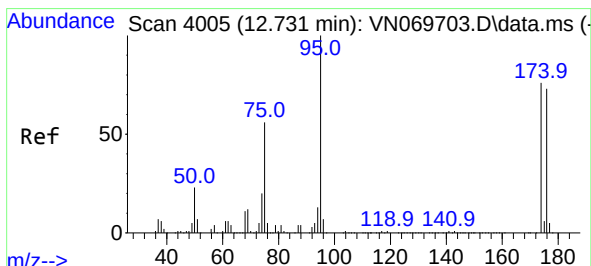
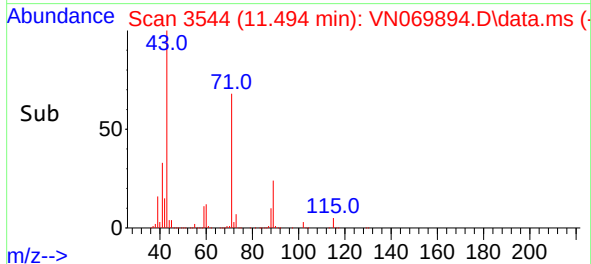
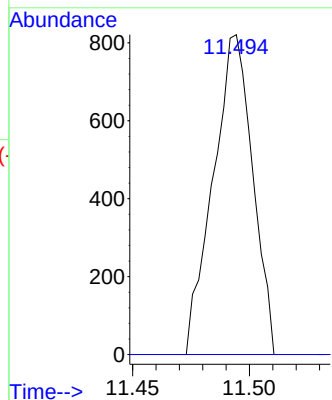
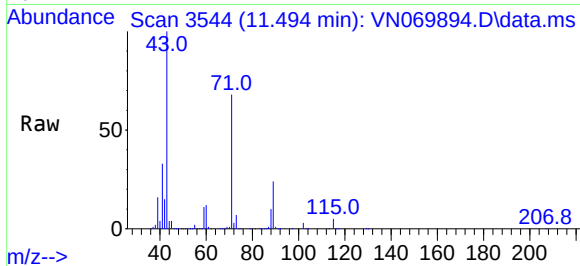




#60
Dibromochloromethane
Concen: 2.426 ug/l
RT: 11.494 min Scan# 31
Delta R.T. 0.254 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

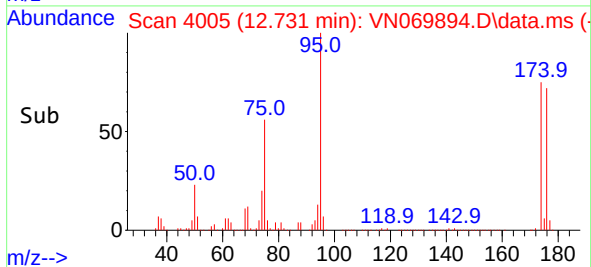
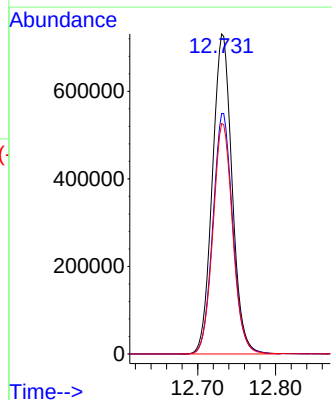
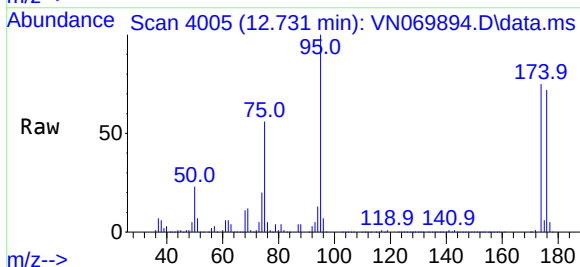
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

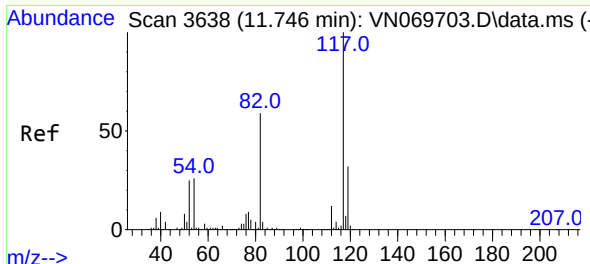
Tgt Ion:129 Resp: 967
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 58.586 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 95 Resp: 1283698
Ion Ratio Lower Upper
95 100
174 75.8 0.0 187.2
176 72.2 0.0 181.4



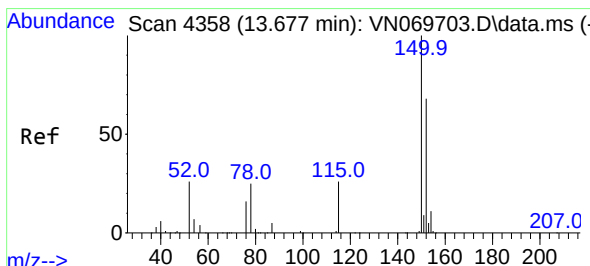
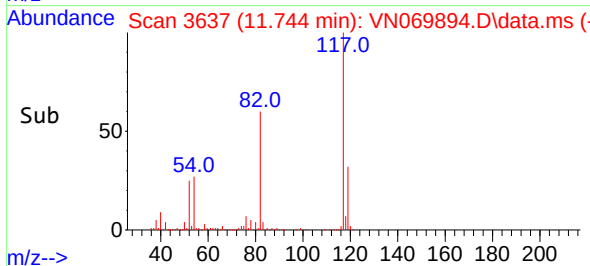
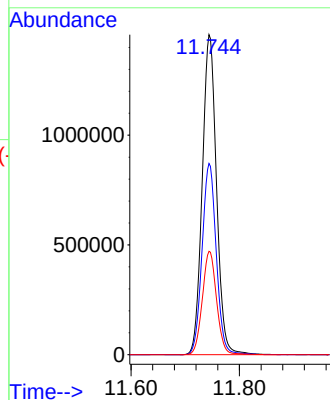
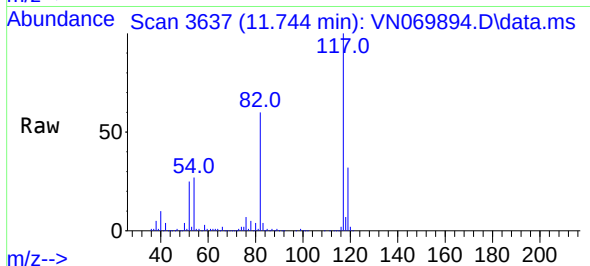


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Instrument :
MSVOA_N
ClientSampleId :
TP-3S

Tgt Ion:117 Resp: 2667981

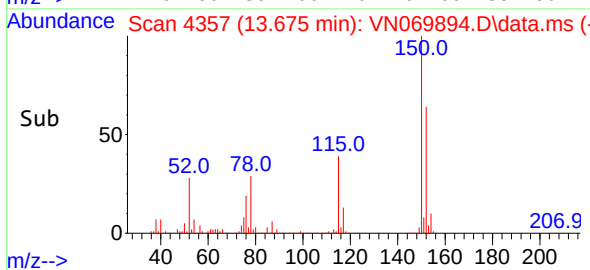
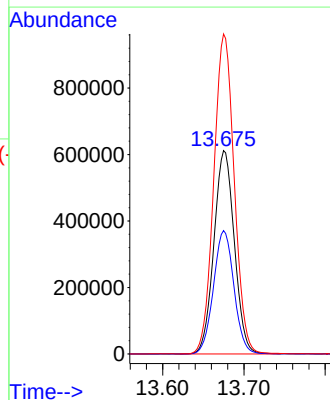
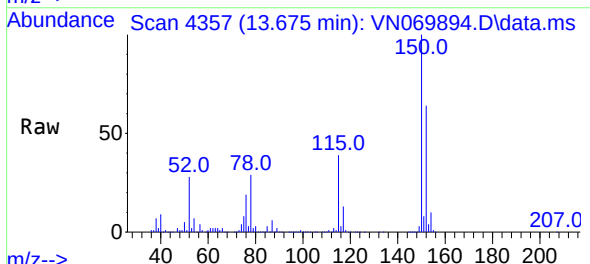
Ion	Ratio	Lower	Upper
117	100		
82	59.8	42.4	63.6
119	32.3	25.4	38.2

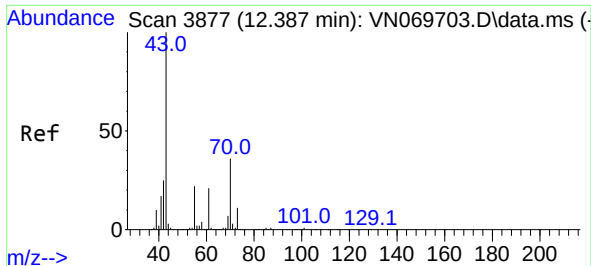


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion:152 Resp: 1070191

Ion	Ratio	Lower	Upper
152	100		
115	60.8	27.5	82.5
150	157.4	0.0	344.4

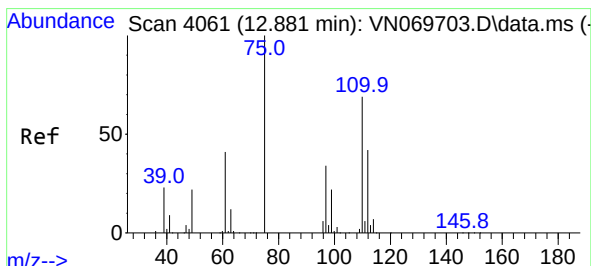
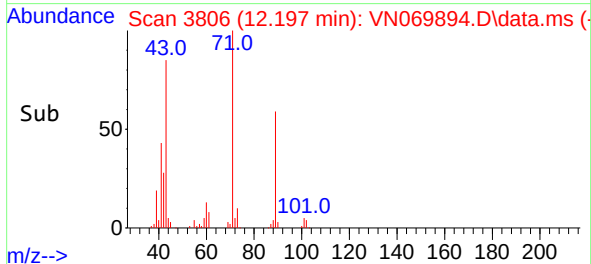
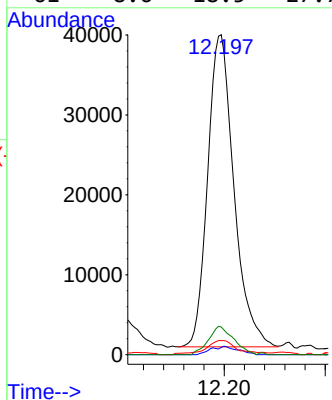
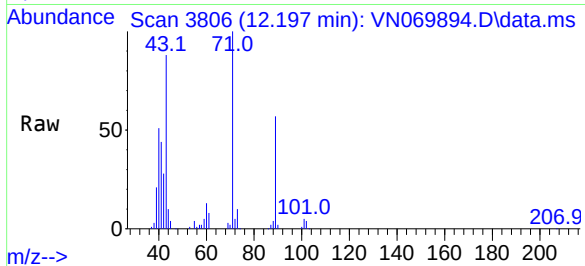




#74
N-amy1 acetate
Concen: 1.678 ug/l
RT: 12.197 min Scan# 3
Delta R.T. -0.190 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

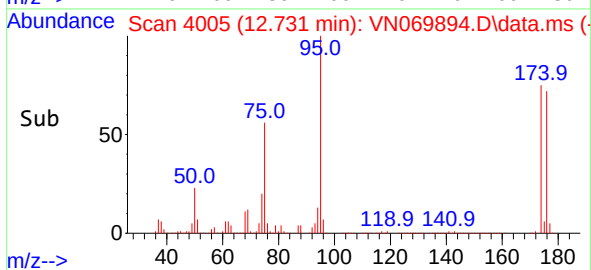
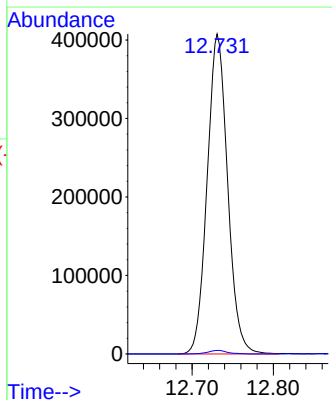
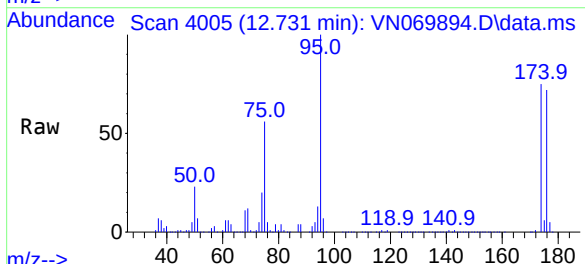
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

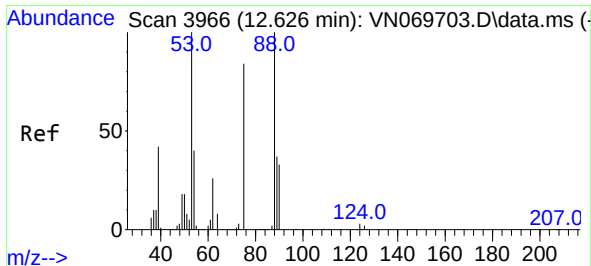
Tgt Ion: 43	Resp: 70648
Ion Ratio	Lower Upper
43 100	
70 1.8	33.4 50.0#
55 5.5	19.3 28.9#
61 8.6	18.5 27.7#



#76
1,2,3-Trichloropropane
Concen: 23.225 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion: 75	Resp: 712799
Ion Ratio	Lower Upper
75 100	
77 1.1	82.6 247.8#

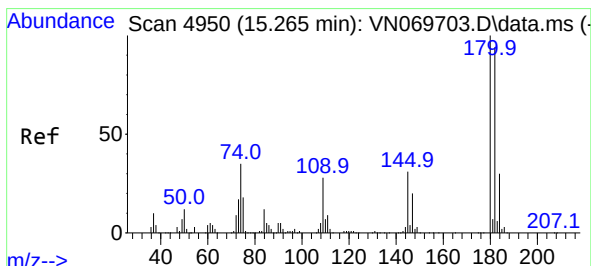
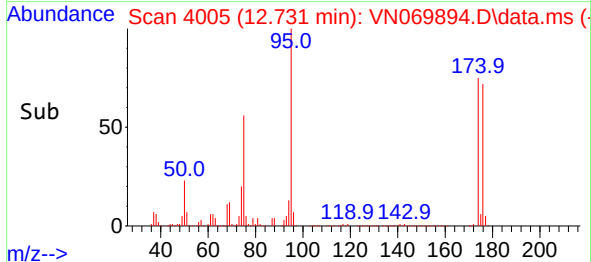
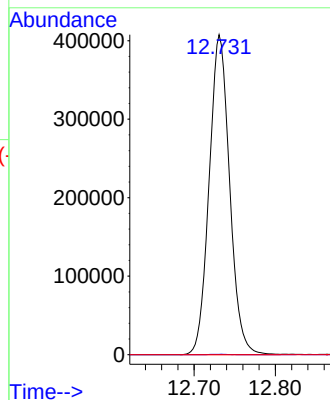
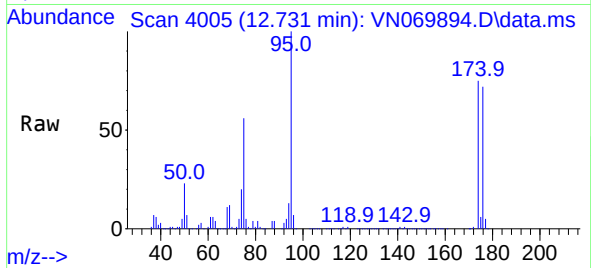




#81
trans-1,4-Dichloro-2-butene
Concen: 73.901 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

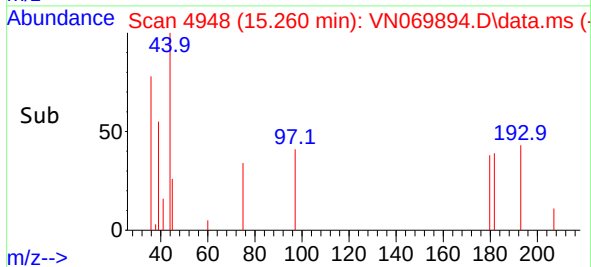
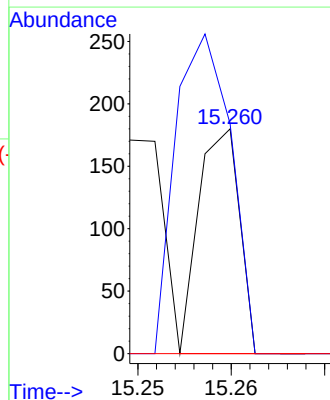
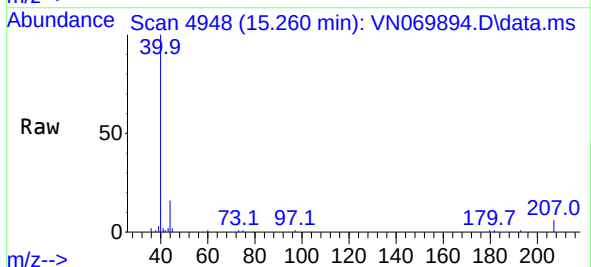
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

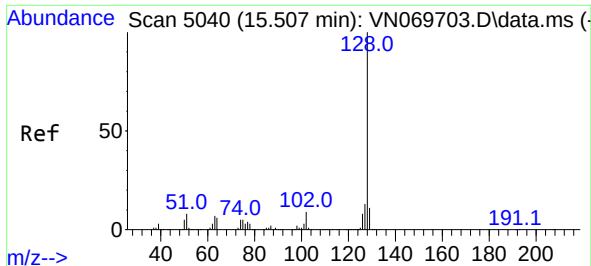
Tgt Ion: 75 Resp: 712799
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.881 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.005 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion:180 Resp: 55
Ion Ratio Lower Upper
180 100
182 190.9 48.3 144.9#
145 0.0 14.5 43.5#

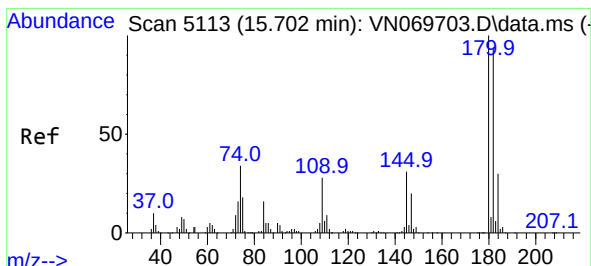
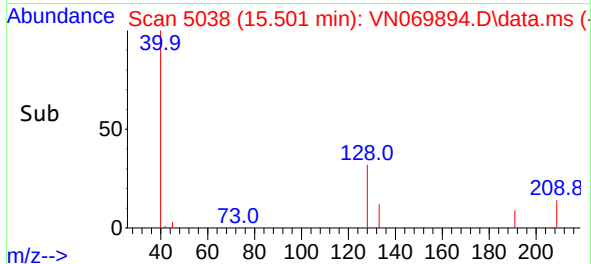
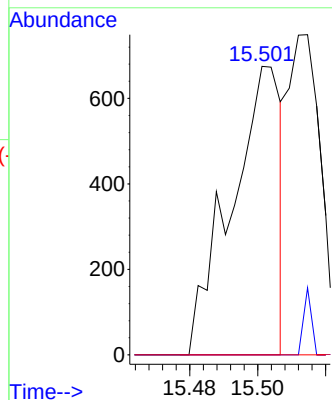
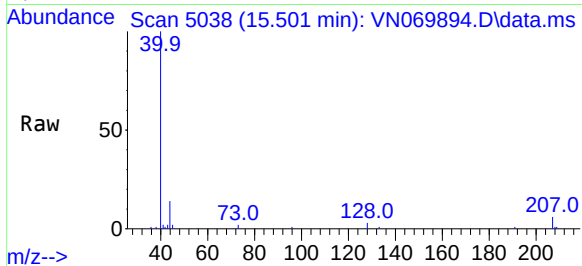




#95
Naphthalene
Concen: 3.997 ug/l
RT: 15.501 min Scan# 5040
Delta R.T. -0.006 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Instrument :
MSVOA_N
ClientSampleId :
TP-3S

Tgt Ion:128 Resp: 685
Ion Ratio Lower Upper
128 100
127 3.6 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.437 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN069894.D
Acq: 9 Dec 2021 6:02

Tgt Ion:180 Resp: 24
Ion Ratio Lower Upper
180 100
182 1362.5 47.4 142.2#
145 0.0 15.0 45.1#

