

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068464.D
 Acq On : 13 Sep 2021 18:18
 Operator : JC/MD
 Sample : M3717-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

Quant Time: Sep 14 04:29:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

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

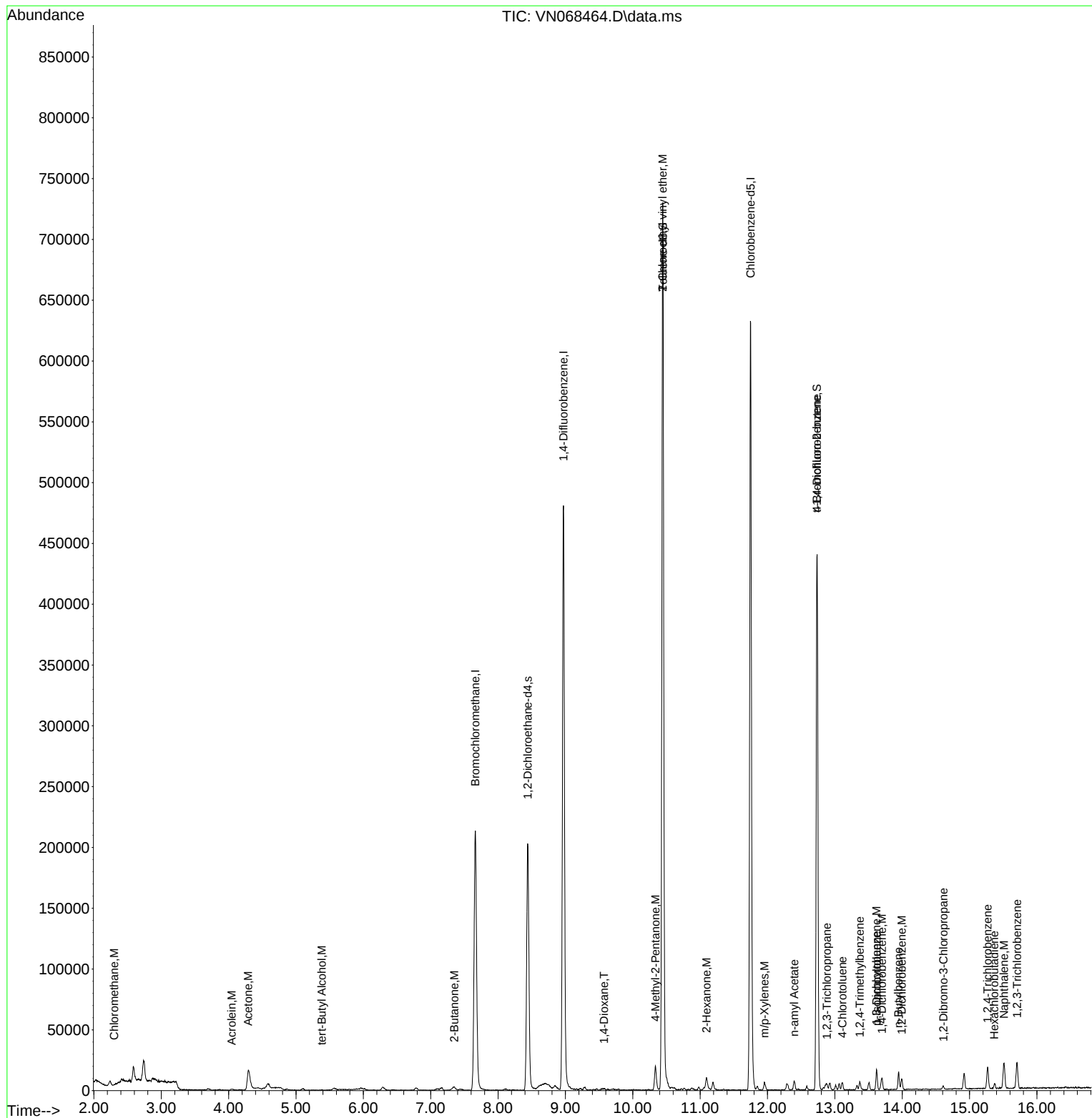
Internal Standards						
1) Bromochloromethane	7.662	128	90732	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	470896	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	411727	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	175388	32.732	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.100%	
60) 4-Bromofluorobenzene	12.733	95	152010	25.903	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 86.333%	
63) Toluene-d8	10.446	98	556770	31.085	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.600%	
Target Compounds						Qvalue
3) Chloromethane	2.301	50	1015	0.254	ug/l	93
13) Acrolein	4.044	56	95	0.275	ug/l #	1
15) Acetone	4.291	58	6923	13.631	ug/l	86
23) tert-Butyl Alcohol	5.382	59	162	0.215	ug/l #	100
30) 2-Butanone	7.351	43	4064	1.687	ug/l #	58
45) 1,4-Dioxane	9.574	88	65	0.739	ug/l #	14
47) n-amyl Acetate	12.396	43	4547	0.745	ug/l #	72
55) 2-Chloroethyl vinyl ether	10.443	63	335	0.287	ug/l #	1
58) 4-Methyl-2-Pentanone	10.336	43	13393	2.763	ug/l	99
59) 2-Hexanone	11.095	43	7978	2.375	ug/l #	88
67) m/p-Xylenes	11.956	106	2269	0.234	ug/l	82
72) 1,2,3-Trichloropropane	12.881	75	1899	0.344	ug/l	73
77) t-1,4-Dichloro-2-butene	12.733	75	77292	42.475	ug/l #	13
78) 4-Chlorotoluene	13.112	91	3649	0.241	ug/l	82
80) 1,2,4-Trimethylbenzene	13.372	105	4588	0.233	ug/l #	67
82) p-Isopropyltoluene	13.621	119	5060	0.239	ug/l	96
83) 1,3-Dichlorobenzene	13.619	146	4168	0.347	ug/l	95
84) 1,4-Dichlorobenzene	13.699	146	4488	0.390	ug/l	94
85) n-Butylbenzene	13.946	91	8422	0.559	ug/l	95
87) 1,2-Dichlorobenzene	13.994	146	4633	0.402	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.611	75	868	0.775	ug/l #	51
89) 1,2,4-Trichlorobenzene	15.268	180	7082	1.270	ug/l	96
90) Hexachlorobutadiene	15.367	225	770	0.218	ug/l	74
91) Naphthalene	15.509	128	22710	1.888	ug/l	98
92) 1,2,3-Trichlorobenzene	15.705	180	8976	1.710	ug/l	94

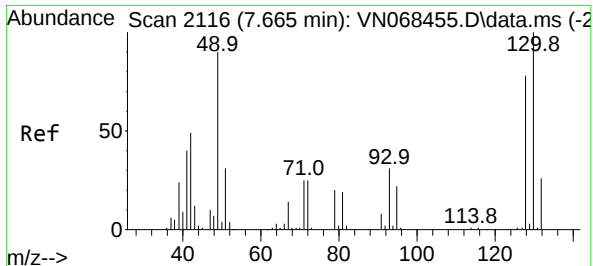
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 14 04:29:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Sep 14 04:23:31 2021
Response via : Initial Calibration

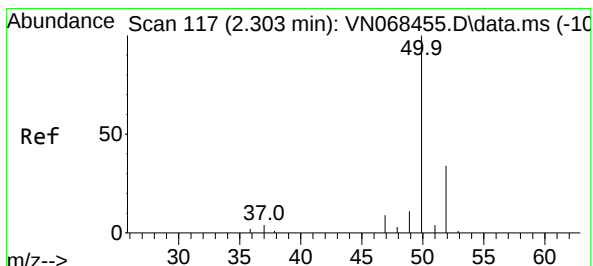
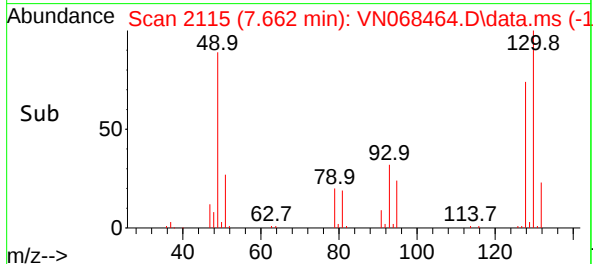
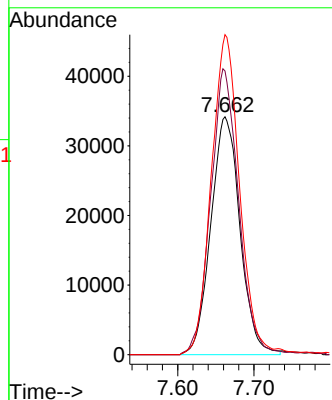
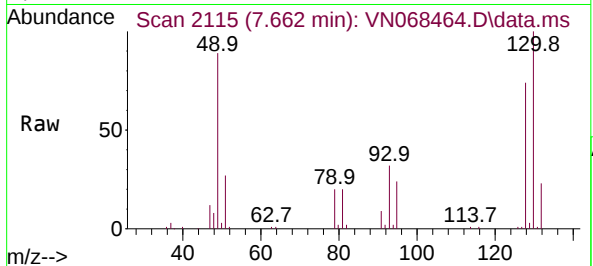




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

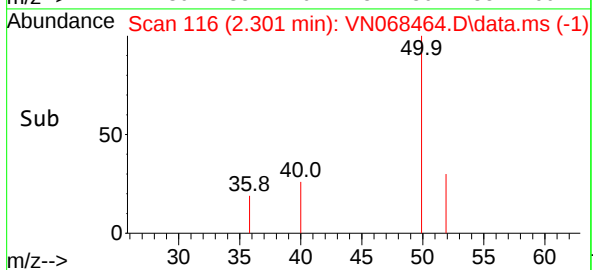
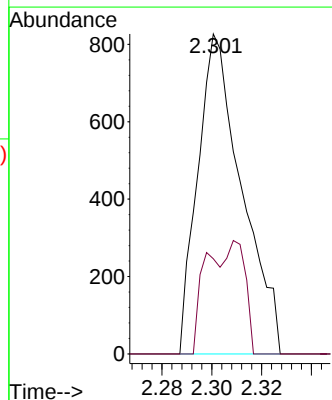
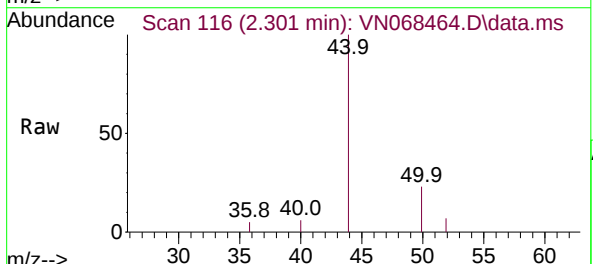
Instrument :
MSVOA_N
ClientSampleId :
OF-1

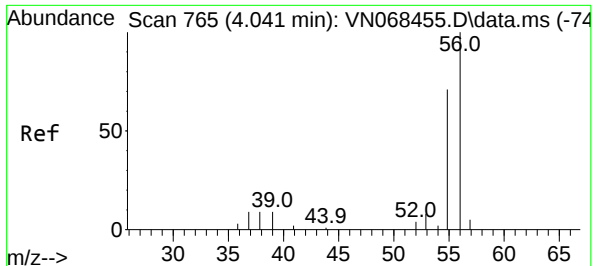
Tgt Ion:128 Resp: 90732
Ion Ratio Lower Upper
128 100
49 115.7 0.0 292.5
130 129.5 0.0 325.0



#3
Chloromethane
Concen: 0.254 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 50 Resp: 1015
Ion Ratio Lower Upper
50 100
52 29.7 27.0 40.4

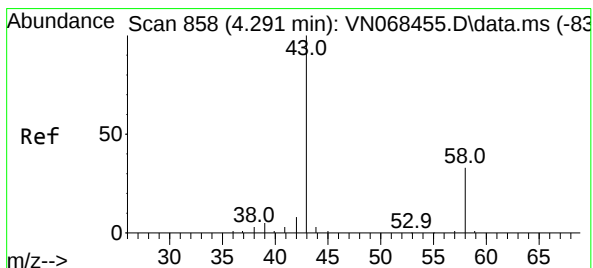
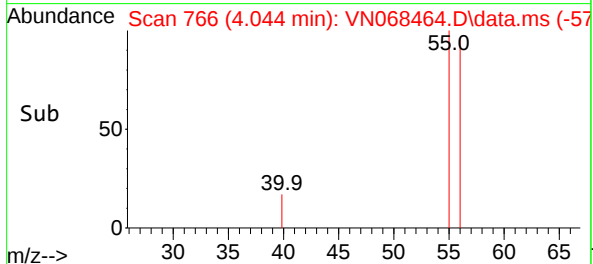
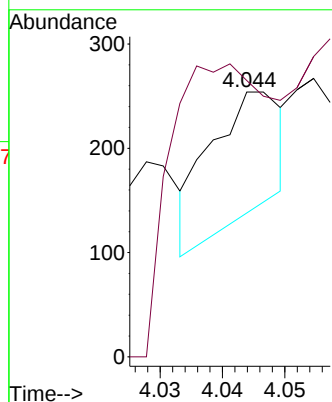
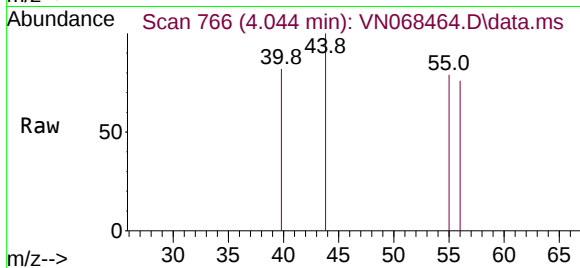




#13
Acrolein
Concen: 0.275 ug/l
RT: 4.044 min Scan# 765
Delta R.T. 0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

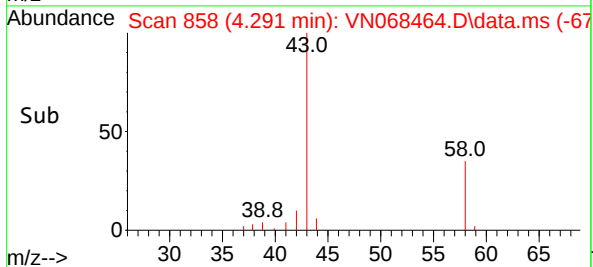
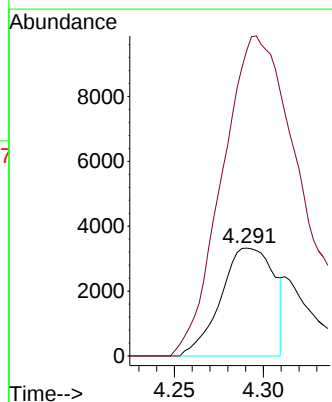
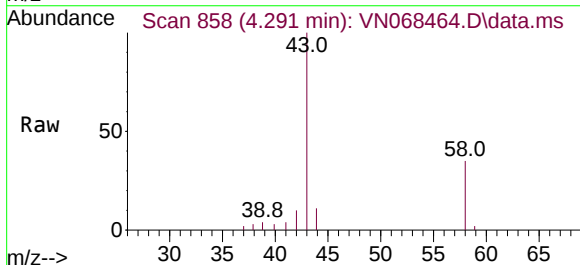
Instrument :
MSVOA_N
ClientSampleId :
OF-1

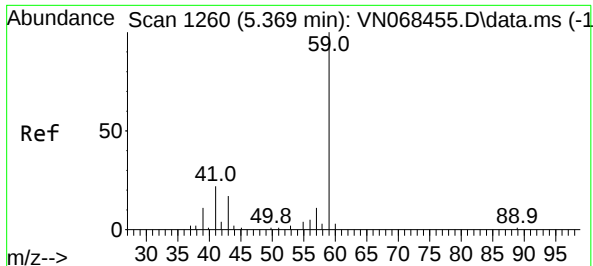
Tgt Ion: 56 Resp: 95
Ion Ratio Lower Upper
56 100
55 340.0 57.2 85.8#



#15
Acetone
Concen: 13.631 ug/l
RT: 4.291 min Scan# 858
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 58 Resp: 6923
Ion Ratio Lower Upper
58 100
43 272.5 239.9 359.9

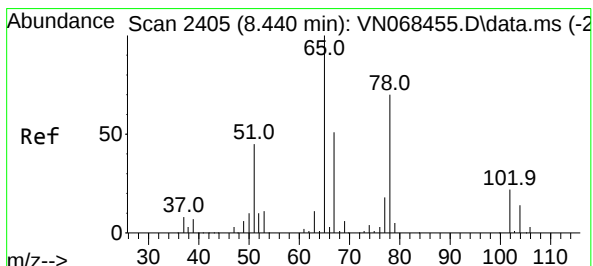
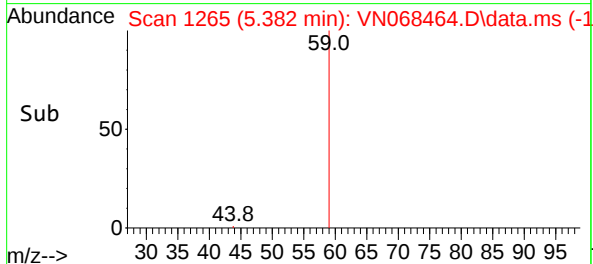
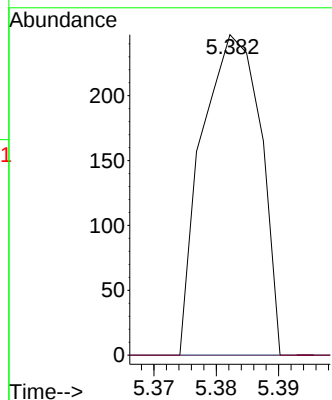
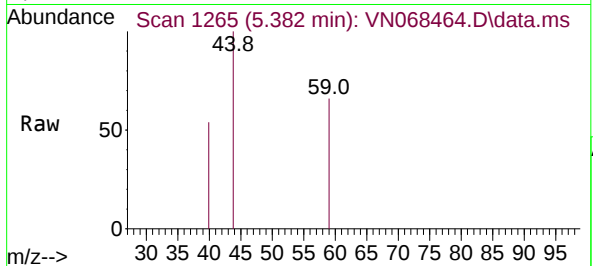




#23
tert-Butyl Alcohol
Concen: 0.215 ug/l
RT: 5.382 min Scan# 1265
Delta R.T. 0.013 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

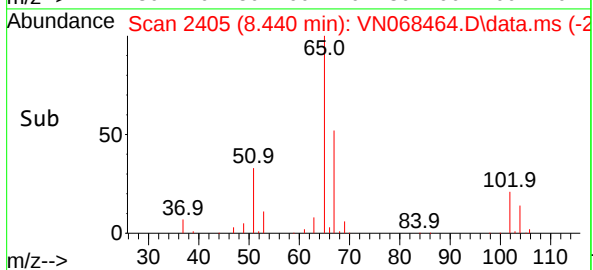
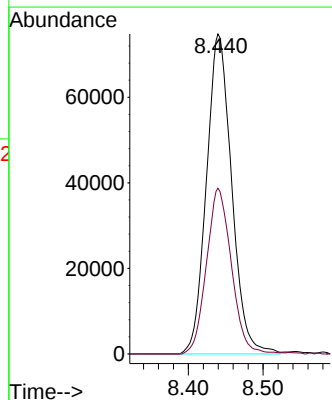
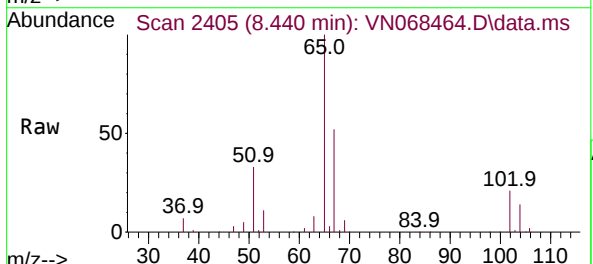
Instrument :
MSVOA_N
ClientSampleId :
OF-1

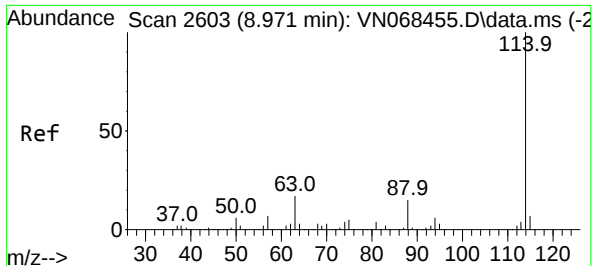
Tgt Ion: 59 Resp: 162
Ion Ratio Lower Upper
59 100
52 135.8 0.0 0.0#



#27
1,2-Dichloroethane-d4
Concen: 32.732 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 65 Resp: 175388
Ion Ratio Lower Upper
65 100
67 51.0 41.8 62.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.971 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

Instrument :

MSVOA_N

ClientSampleId :

OF-1

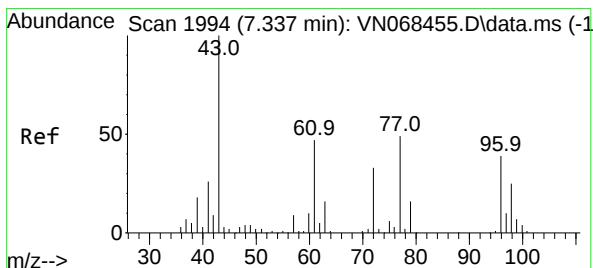
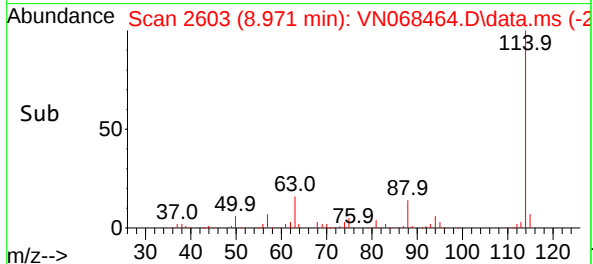
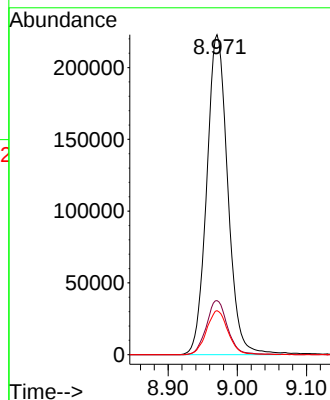
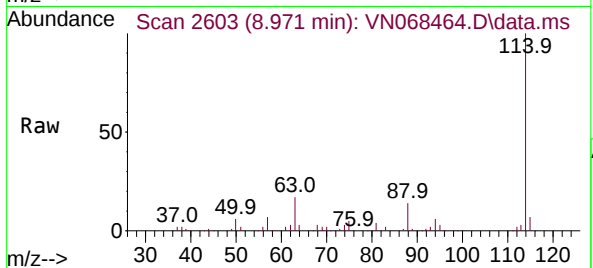
Tgt Ion:114 Resp: 470896

Ion Ratio Lower Upper

114 100

63 17.0 13.4 20.0

88 14.0 11.1 16.7



#30

2-Butanone

Concen: 1.687 ug/l

RT: 7.351 min Scan# 1999

Delta R.T. 0.013 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

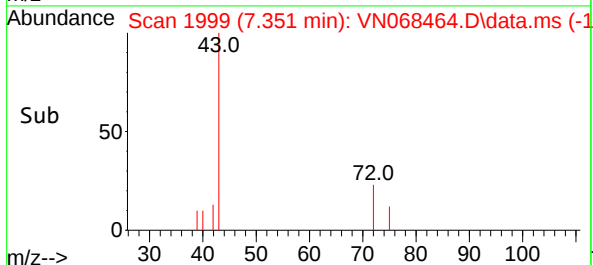
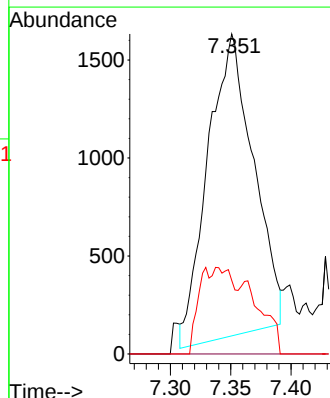
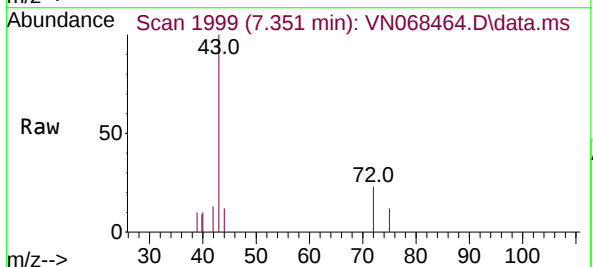
Tgt Ion: 43 Resp: 4064

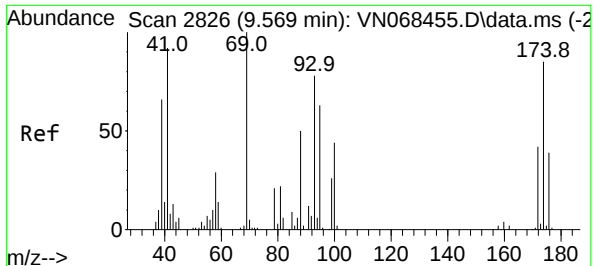
Ion Ratio Lower Upper

43 100

57 0.0 3.2 4.8#

72 7.6 26.6 39.8#





#45

1,4-Dioxane

Concen: 0.739 ug/l

RT: 9.574 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

Instrument :

MSVOA_N

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OF-1

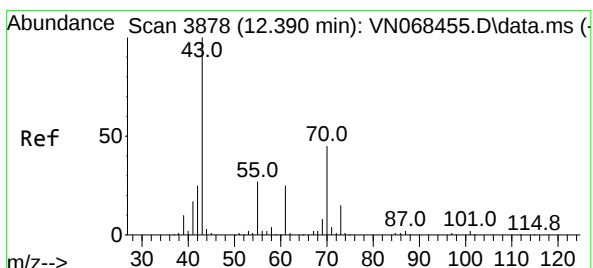
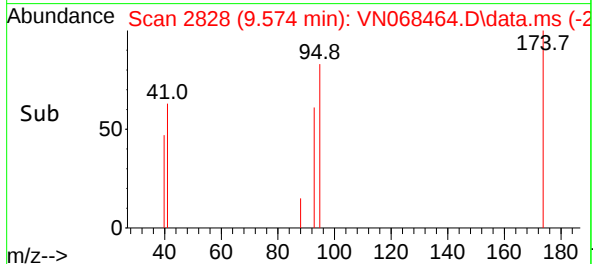
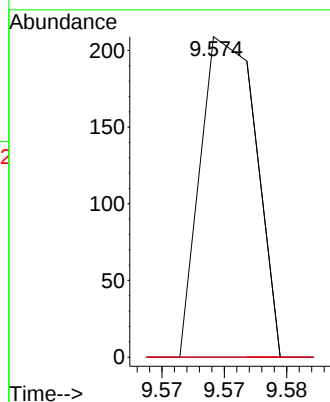
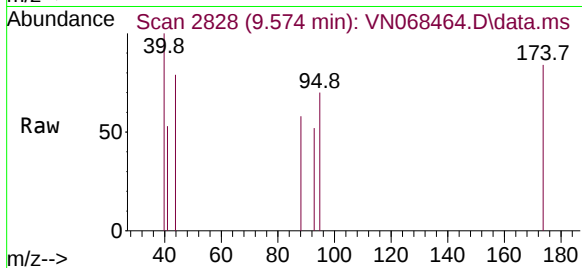
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 78.5 21.0 31.4#

58 0.0 47.0 70.6#



#47

n-amy1 Acetate

Concen: 0.745 ug/l

RT: 12.396 min Scan# 3880

Delta R.T. 0.005 min

Lab File: VN068464.D

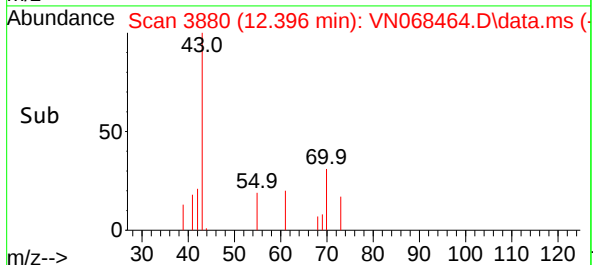
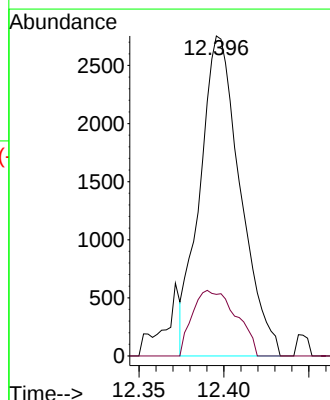
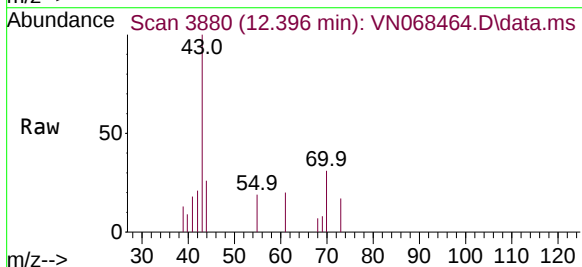
Acq: 13 Sep 2021 18:18

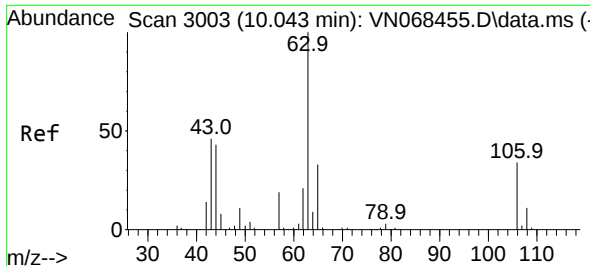
Tgt Ion: 43 Resp: 4547

Ion Ratio Lower Upper

43 100

55 12.5 21.7 32.5#

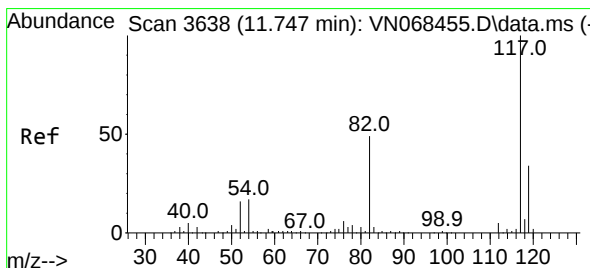
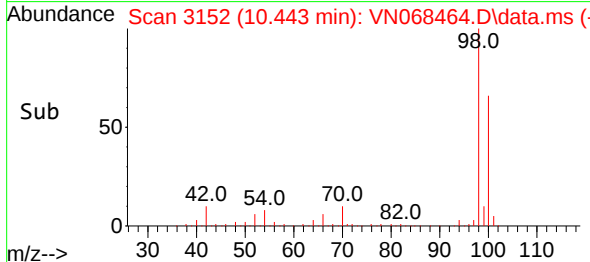
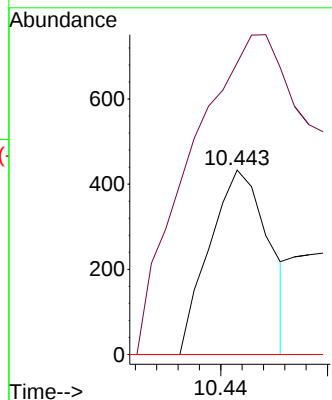
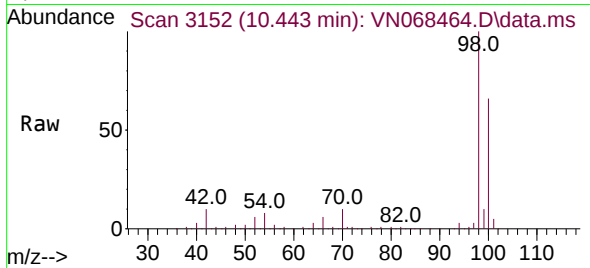




#55
2-Chloroethyl vinyl ether
Concen: 0.287 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.400 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

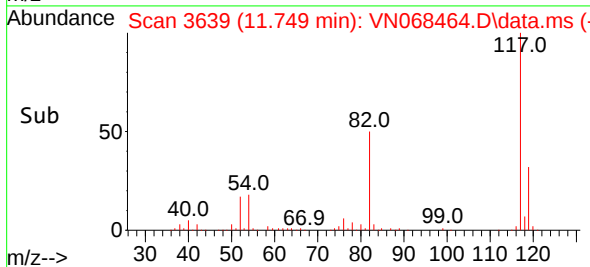
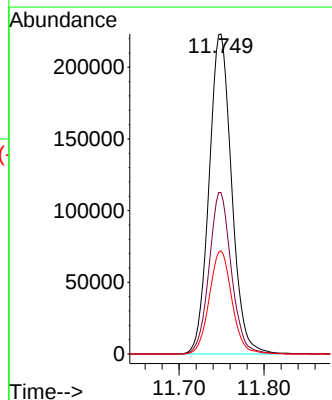
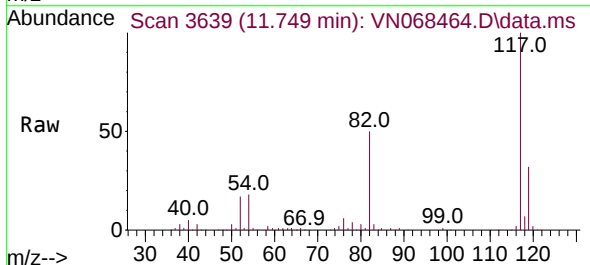
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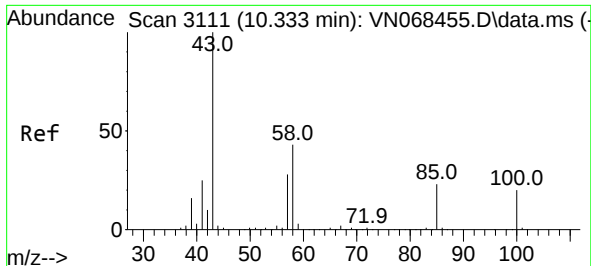
Tgt Ion: 63 Resp: 335
Ion Ratio Lower Upper
63 100
65 421.2 26.2 39.2#
106 0.0 27.7 41.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 117 Resp: 411727
Ion Ratio Lower Upper
117 100
82 49.9 39.4 59.0
119 32.3 26.2 39.2

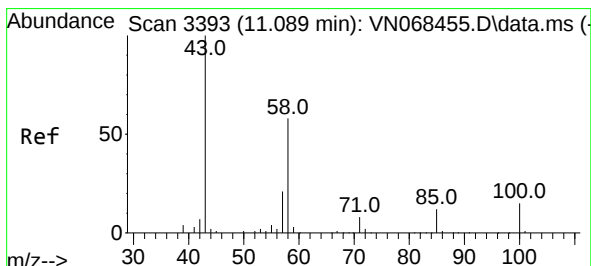
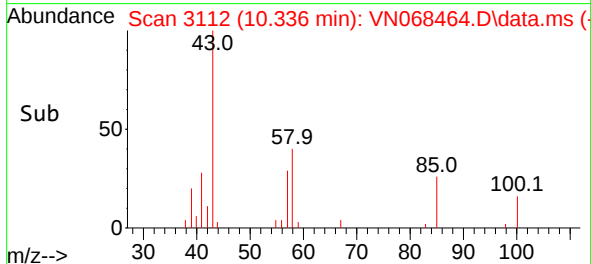
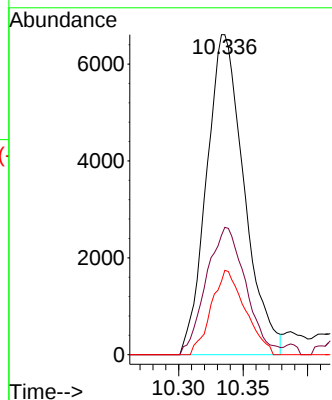
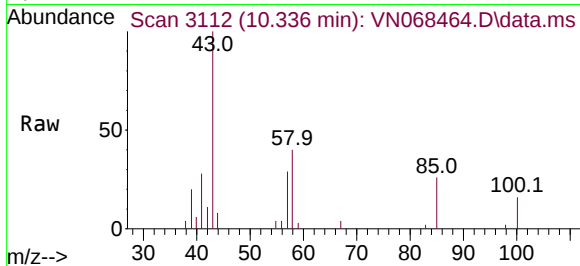




#58
4-Methyl-2-Pentanone
Concen: 2.763 ug/l
RT: 10.336 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

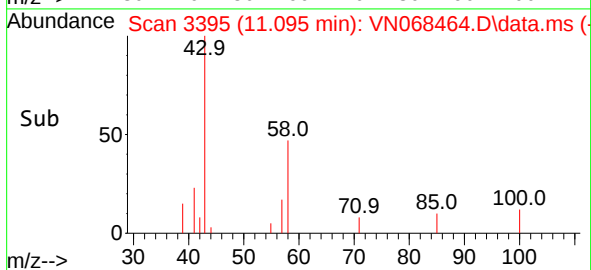
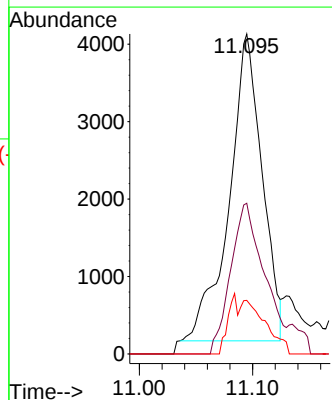
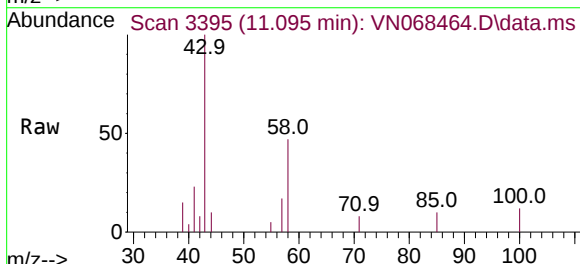
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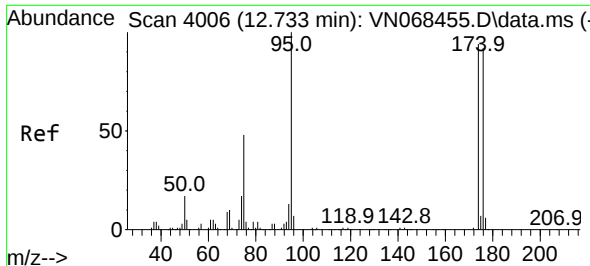
Tgt Ion: 43 Resp: 13393
Ion Ratio Lower Upper
43 100
58 41.9 33.3 49.9
85 23.7 18.6 27.8



#59
2-Hexanone
Concen: 2.375 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.005 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 43 Resp: 7978
Ion Ratio Lower Upper
43 100
58 50.3 46.4 69.6
57 13.6 16.6 25.0#

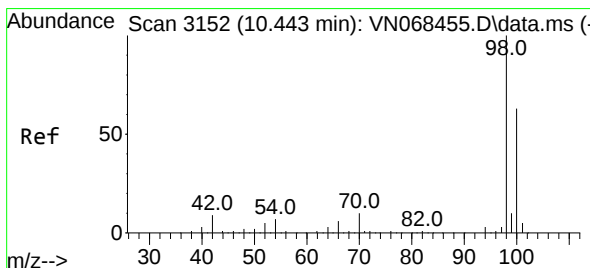
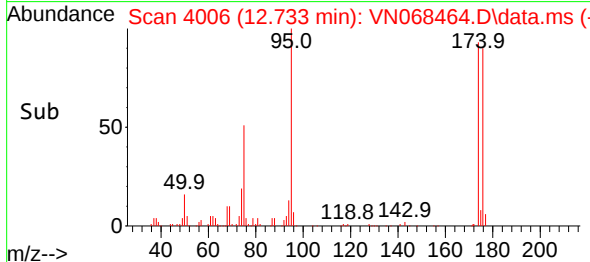
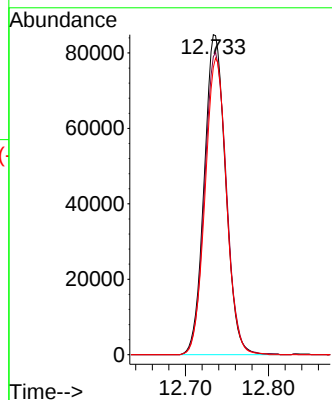
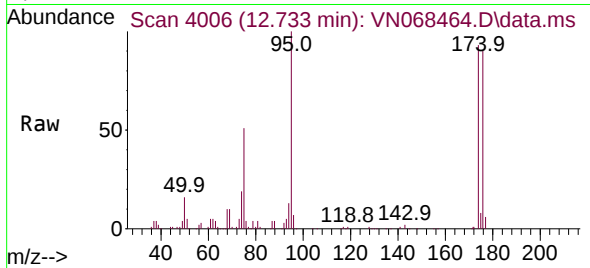




#60
4-Bromofluorobenzene
Concen: 25.903 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

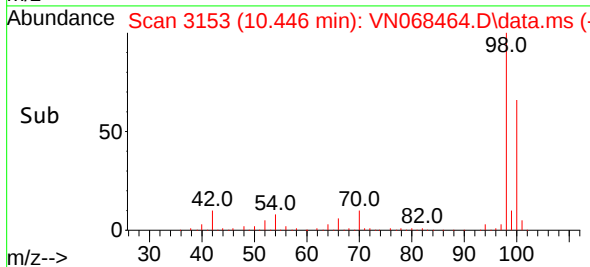
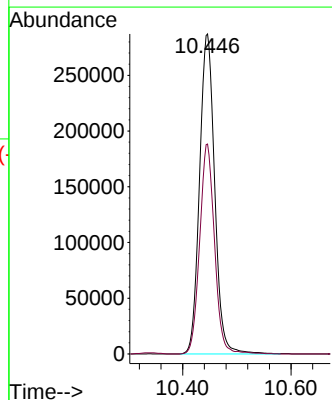
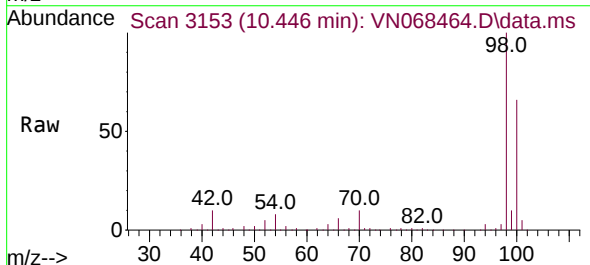
Instrument :
MSVOA_N
ClientSampleId :
OF-1

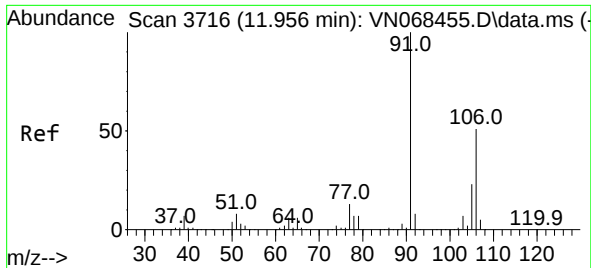
Tgt Ion: 95 Resp: 152010
Ion Ratio Lower Upper
95 100
174 96.0 78.0 117.0
176 92.3 76.4 114.6



#63
Toluene-d8
Concen: 31.085 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 98 Resp: 556770
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3

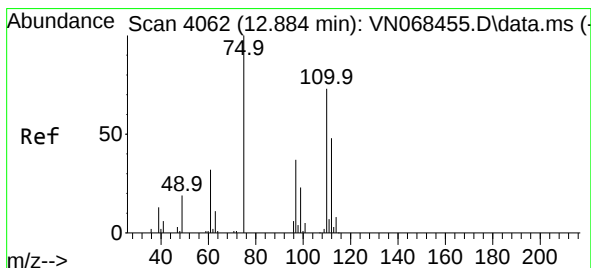
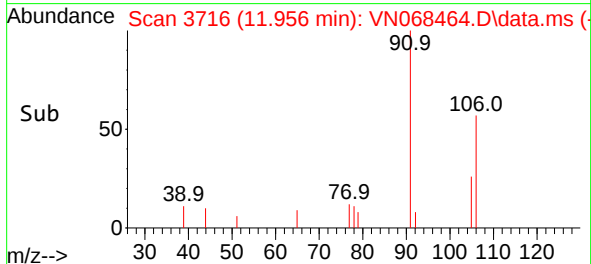
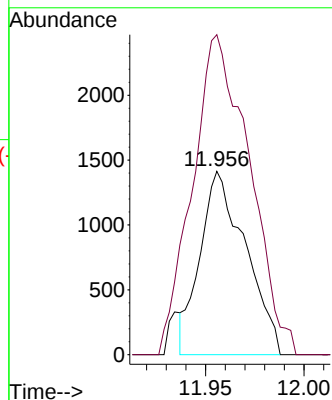
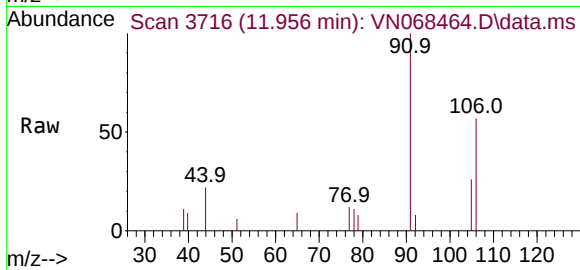




#67
m/p-Xylenes
Concen: 0.234 ug/l
RT: 11.956 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

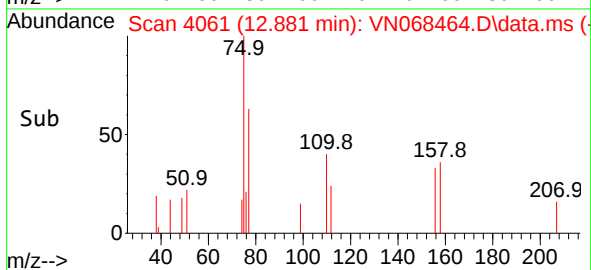
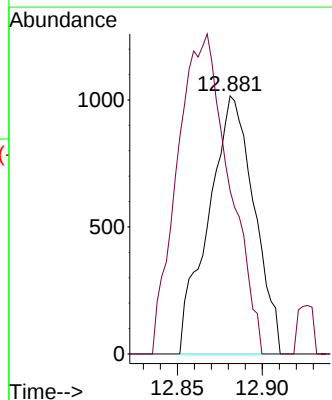
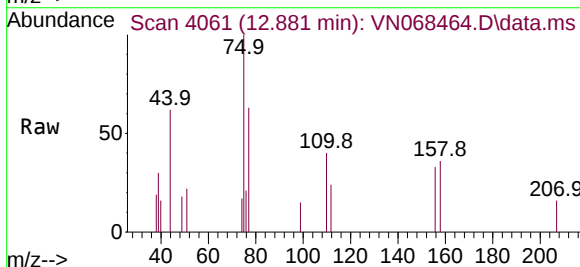
Instrument :
MSVOA_N
ClientSampleId :
OF-1

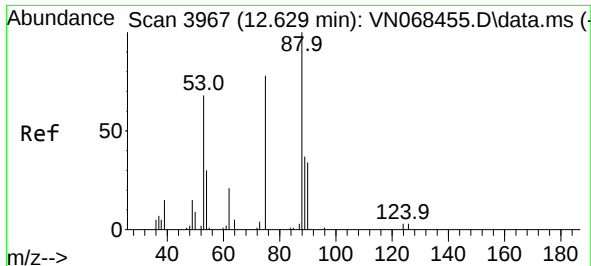
Tgt Ion:106 Resp: 2269
Ion Ratio Lower Upper
106 100
91 217.6 152.7 229.1



#72
1,2,3-Trichloropropane
Concen: 0.344 ug/l
RT: 12.881 min Scan# 4061
Delta R.T. -0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 75 Resp: 1899
Ion Ratio Lower Upper
75 100
77 140.0 0.0 357.6

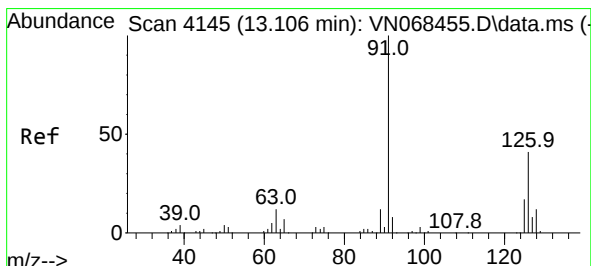
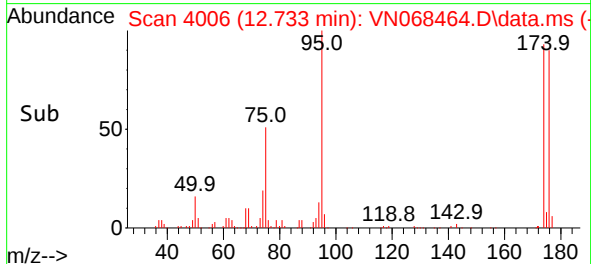
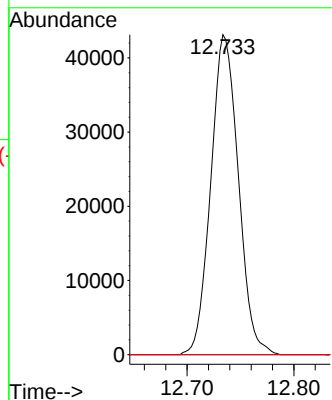
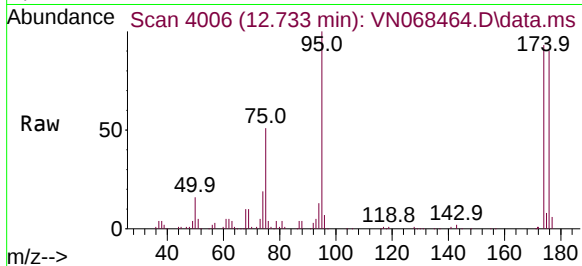




#77
t-1,4-Dichloro-2-butene
Concen: 42.475 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

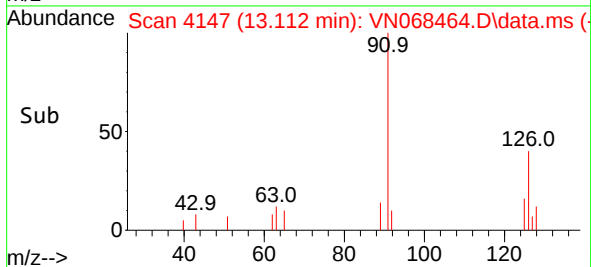
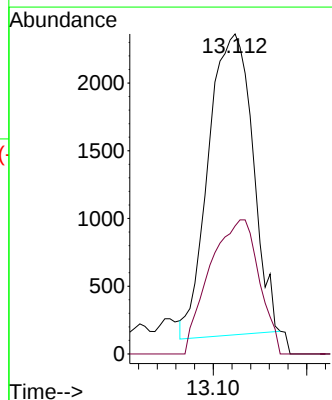
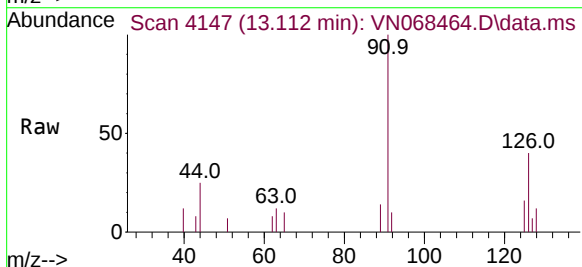
Instrument :
MSVOA_N
ClientSampleId :
OF-1

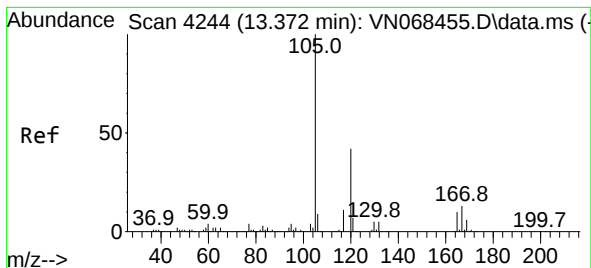
Tgt Ion: 75 Resp: 77292
Ion Ratio Lower Upper
75 100
53 0.0 43.8 131.4#
89 0.0 26.2 78.6#



#78
4-Chlorotoluene
Concen: 0.241 ug/l
RT: 13.112 min Scan# 4147
Delta R.T. 0.005 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion: 91 Resp: 3649
Ion Ratio Lower Upper
91 100
126 49.7 0.0 77.8





#80

1,2,4-Trimethylbenzene

Concen: 0.233 ug/l

RT: 13.372 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

Instrument :

MSVOA_N

ClientSampleId :

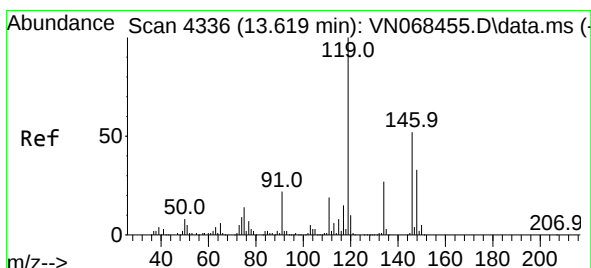
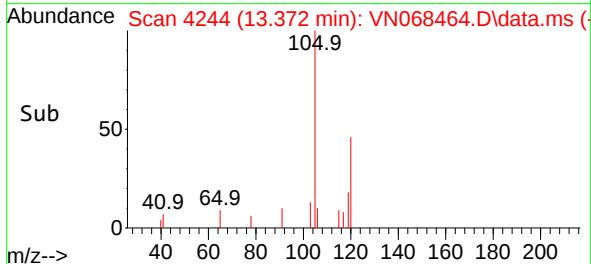
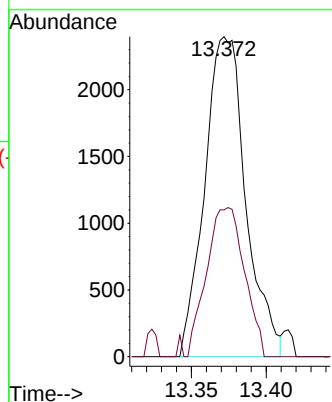
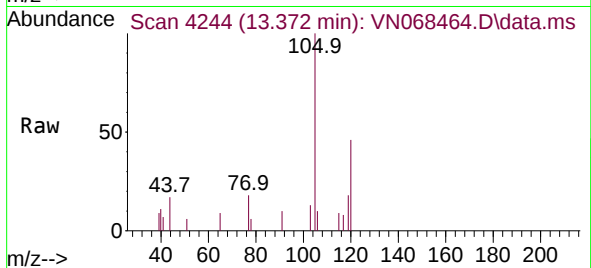
OF-1

Tgt Ion:105 Resp: 4588

Ion Ratio Lower Upper

105 100

120 43.0 0.0 0.4#



#82

p-Isopropyltoluene

Concen: 0.239 ug/l

RT: 13.621 min Scan# 4337

Delta R.T. 0.003 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

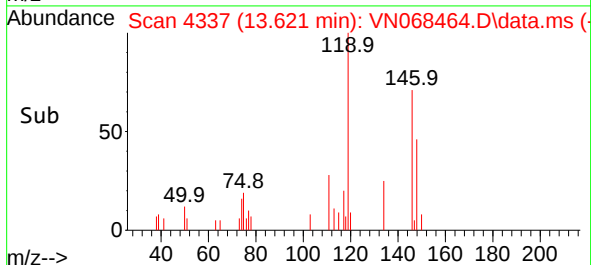
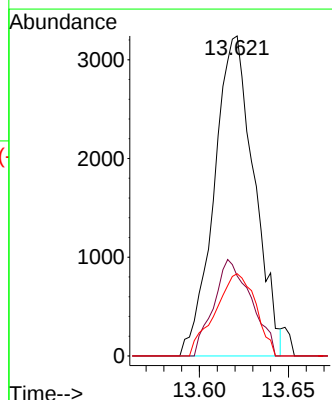
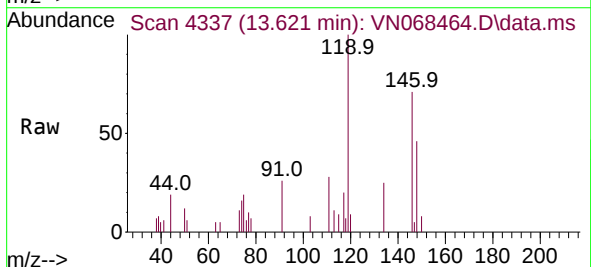
Tgt Ion:119 Resp: 5060

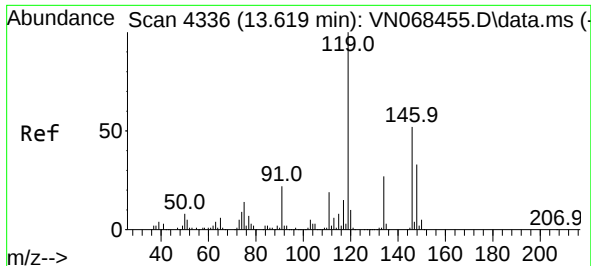
Ion Ratio Lower Upper

119 100

134 28.4 0.0 55.4

91 26.1 0.0 44.4

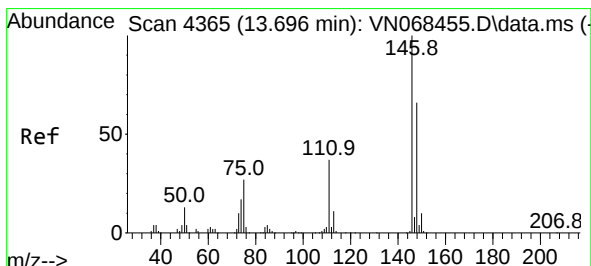
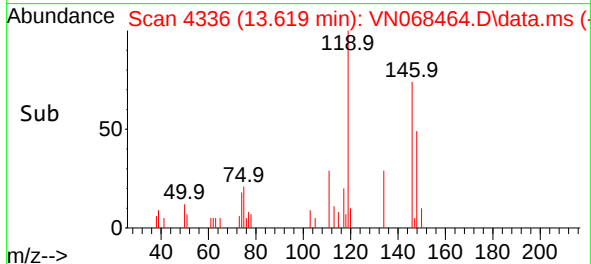
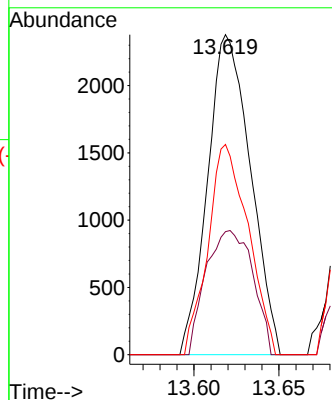
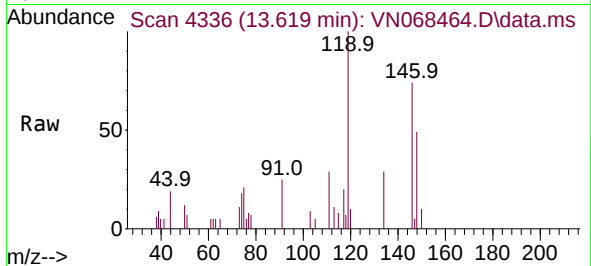




#83
 1,3-Dichlorobenzene
 Concen: 0.347 ug/l
 RT: 13.619 min Scan# 4336
 Delta R.T. -0.000 min
 Lab File: VN068464.D
 Acq: 13 Sep 2021 18:18

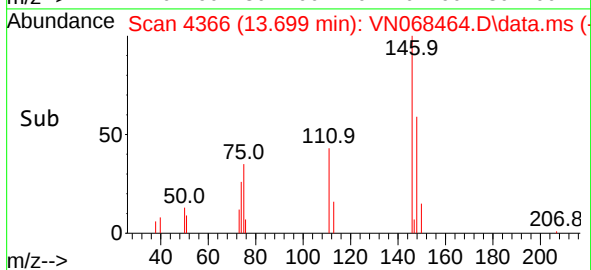
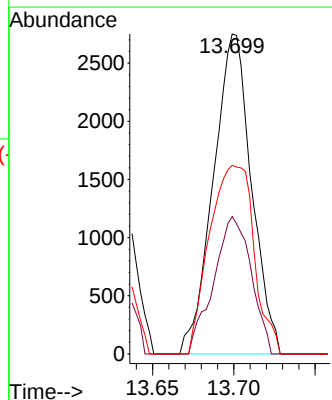
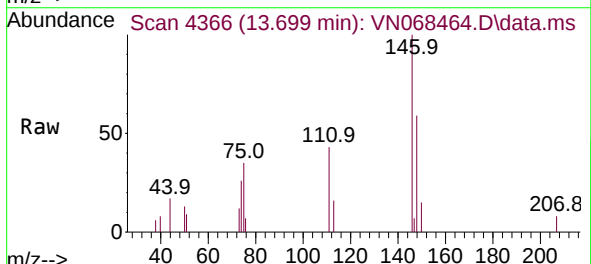
Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

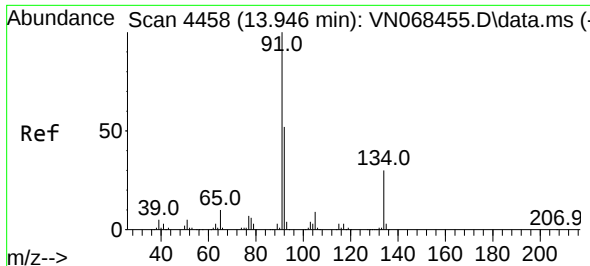
Tgt Ion:146 Resp: 4168
 Ion Ratio Lower Upper
 146 100
 111 42.5 18.4 55.2
 148 61.6 32.0 96.0



#84
 1,4-Dichlorobenzene
 Concen: 0.390 ug/l
 RT: 13.699 min Scan# 4366
 Delta R.T. 0.003 min
 Lab File: VN068464.D
 Acq: 13 Sep 2021 18:18

Tgt Ion:146 Resp: 4488
 Ion Ratio Lower Upper
 146 100
 111 42.2 18.2 54.6
 148 68.6 32.6 97.7

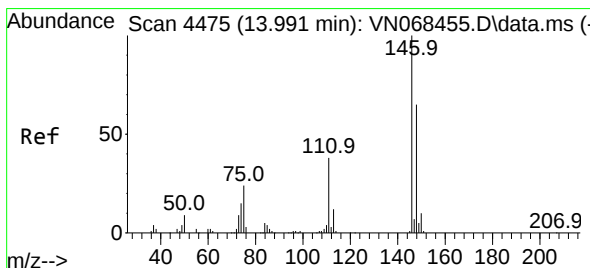
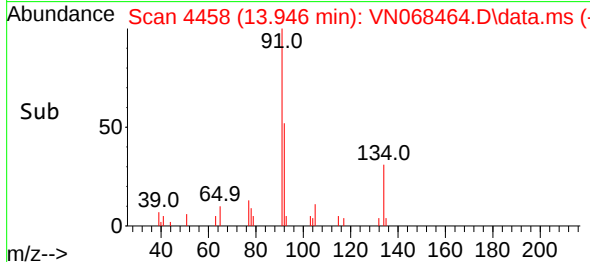
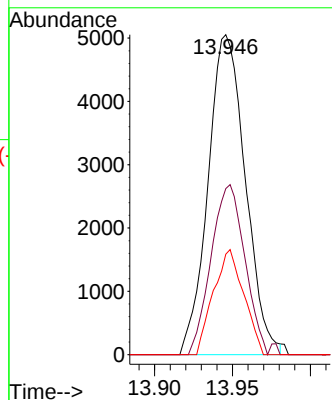
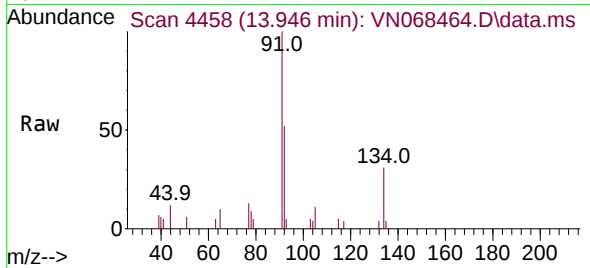




#85
n-Butylbenzene
Concen: 0.559 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

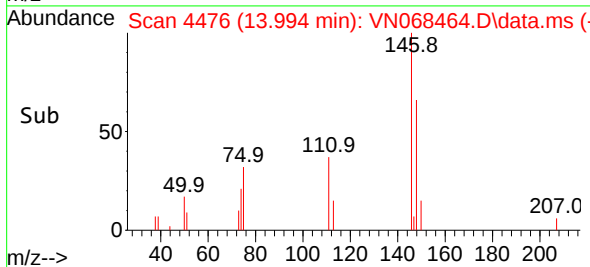
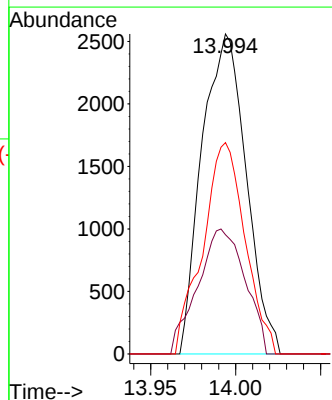
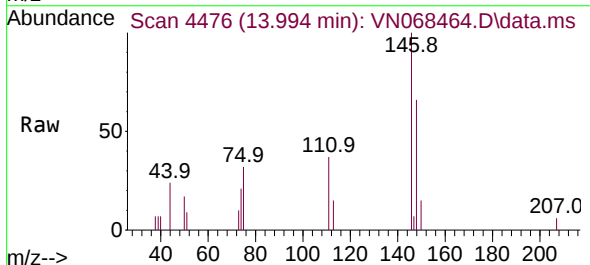
Instrument :
MSVOA_N
ClientSampleId :
OF-1

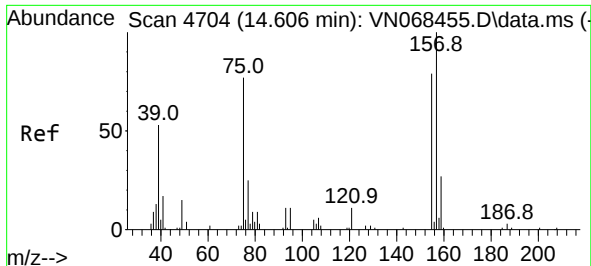
Tgt Ion:	91	Resp:	8422
Ion	Ratio	Lower	Upper
91	100		
92	47.9	0.0	102.4
134	26.7	0.0	58.8



#87
1,2-Dichlorobenzene
Concen: 0.402 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.003 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

Tgt Ion:	146	Resp:	4633
Ion	Ratio	Lower	Upper
146	100		
111	41.9	18.6	56.0
148	63.3	31.9	95.5





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.775 ug/l

RT: 14.611 min Scan# 41

Delta R.T. 0.005 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

Instrument :

MSVOA_N

ClientSampleId :

OF-1

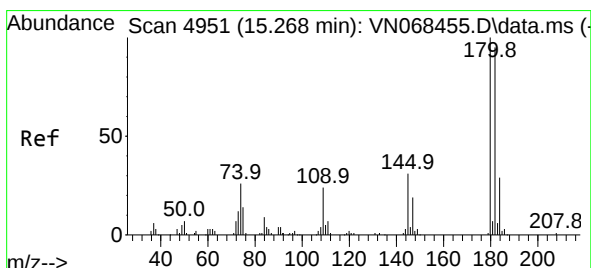
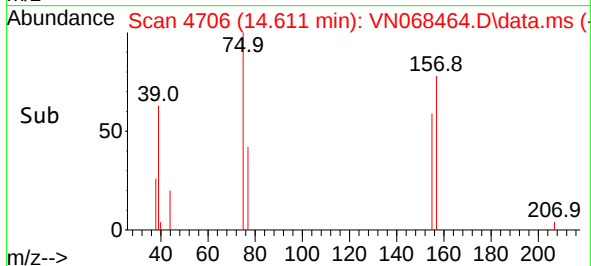
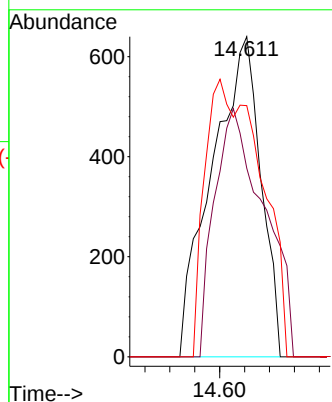
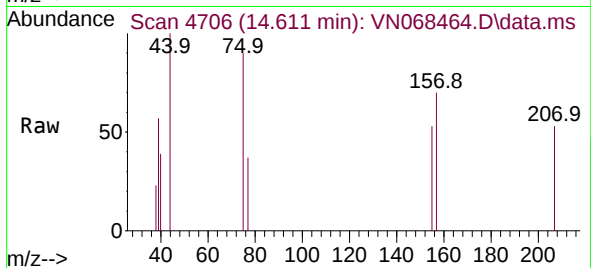
Tgt Ion: 75 Resp: 868

Ion Ratio Lower Upper

75 100

155 79.0 83.3 124.9#

157 51.0 104.9 157.3#



#89

1,2,4-Trichlorobenzene

Concen: 1.270 ug/l

RT: 15.268 min Scan# 4951

Delta R.T. -0.000 min

Lab File: VN068464.D

Acq: 13 Sep 2021 18:18

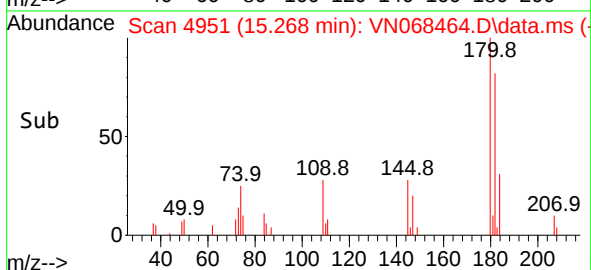
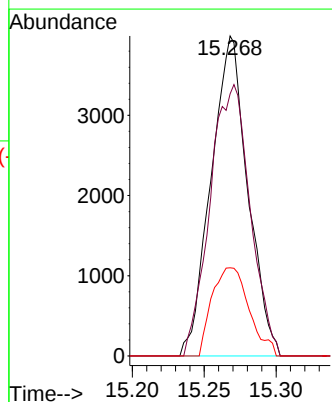
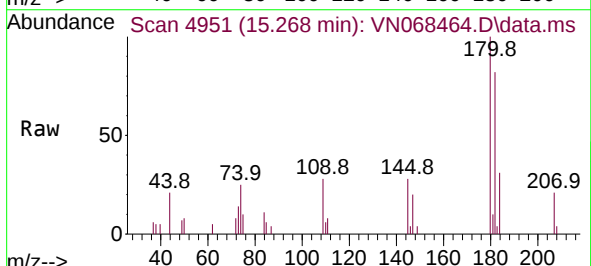
Tgt Ion:180 Resp: 7082

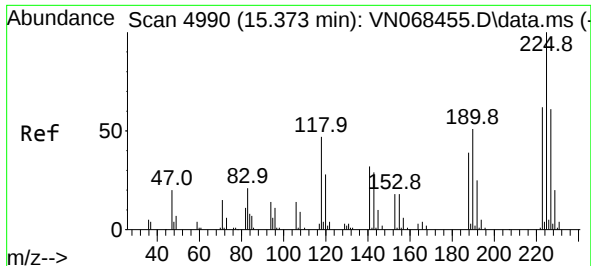
Ion Ratio Lower Upper

180 100

182 92.8 77.0 115.4

145 27.0 24.6 36.8

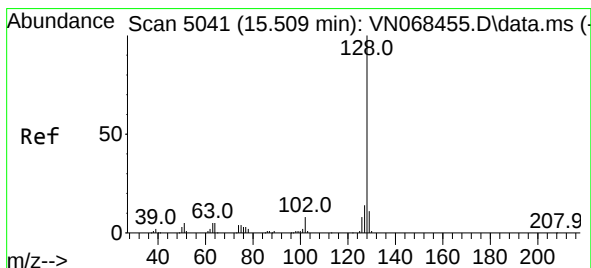
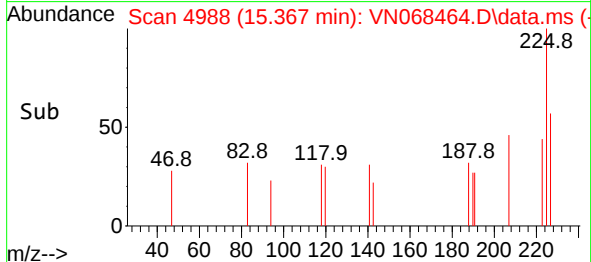
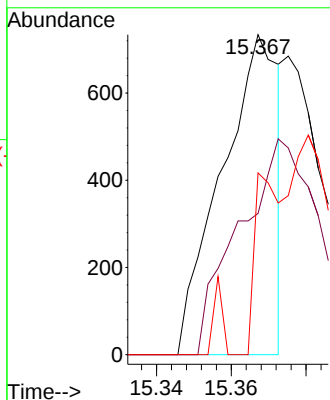
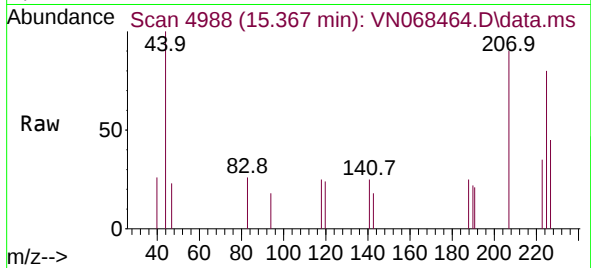




#90
Hexachlorobutadiene
Concen: 0.218 ug/l
RT: 15.367 min Scan# 4990
Delta R.T. -0.005 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

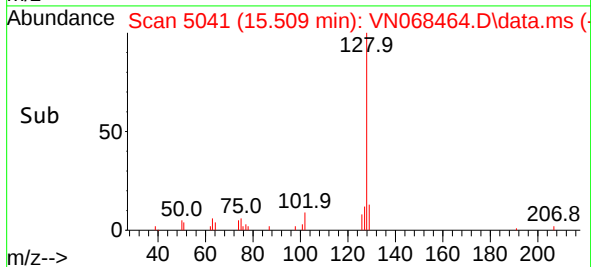
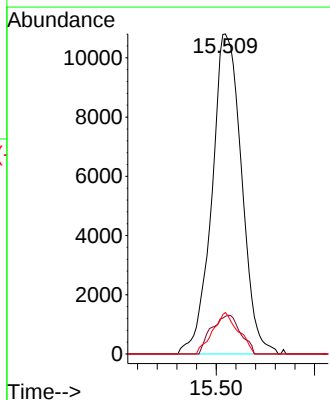
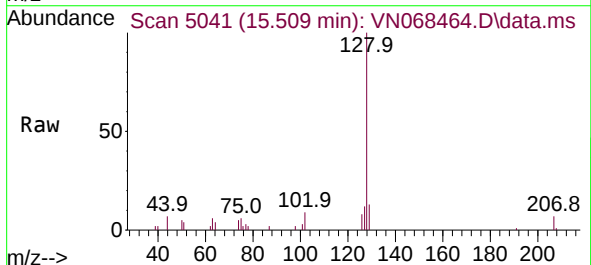
Instrument :
MSVOA_N
ClientSampleId :
OF-1

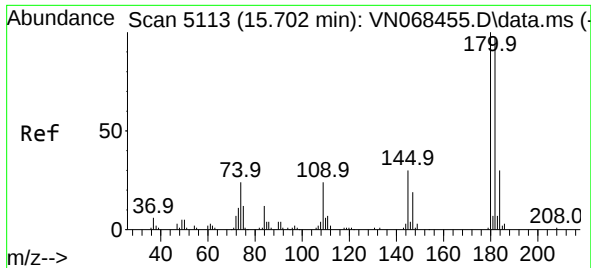
Tgt Ion:225 Resp: 770
Ion Ratio Lower Upper
225 100
223 63.5 0.0 128.4
227 24.3 0.0 127.8



#91
Naphthalene
Concen: 1.888 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. -0.000 min
Lab File: VN068464.D
Acq: 13 Sep 2021 18:18

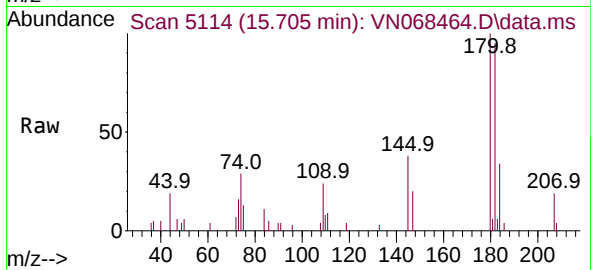
Tgt Ion:128 Resp: 22710
Ion Ratio Lower Upper
128 100
127 11.9 10.6 15.8
129 11.1 8.8 13.2





#92
 1,2,3-Trichlorobenzene
 Concen: 1.710 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN068464.D
 Acq: 13 Sep 2021 18:18

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1



Tgt Ion:180 Resp: 8976
 Ion Ratio Lower Upper
 180 100
 182 90.9 0.0 191.2
 145 25.7 0.0 61.8

