

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122921\
 Data File : VN070352.D
 Acq On : 29 Dec 2021 16:41
 Operator : JC/MD
 Sample : M5115-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 30 01:51:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

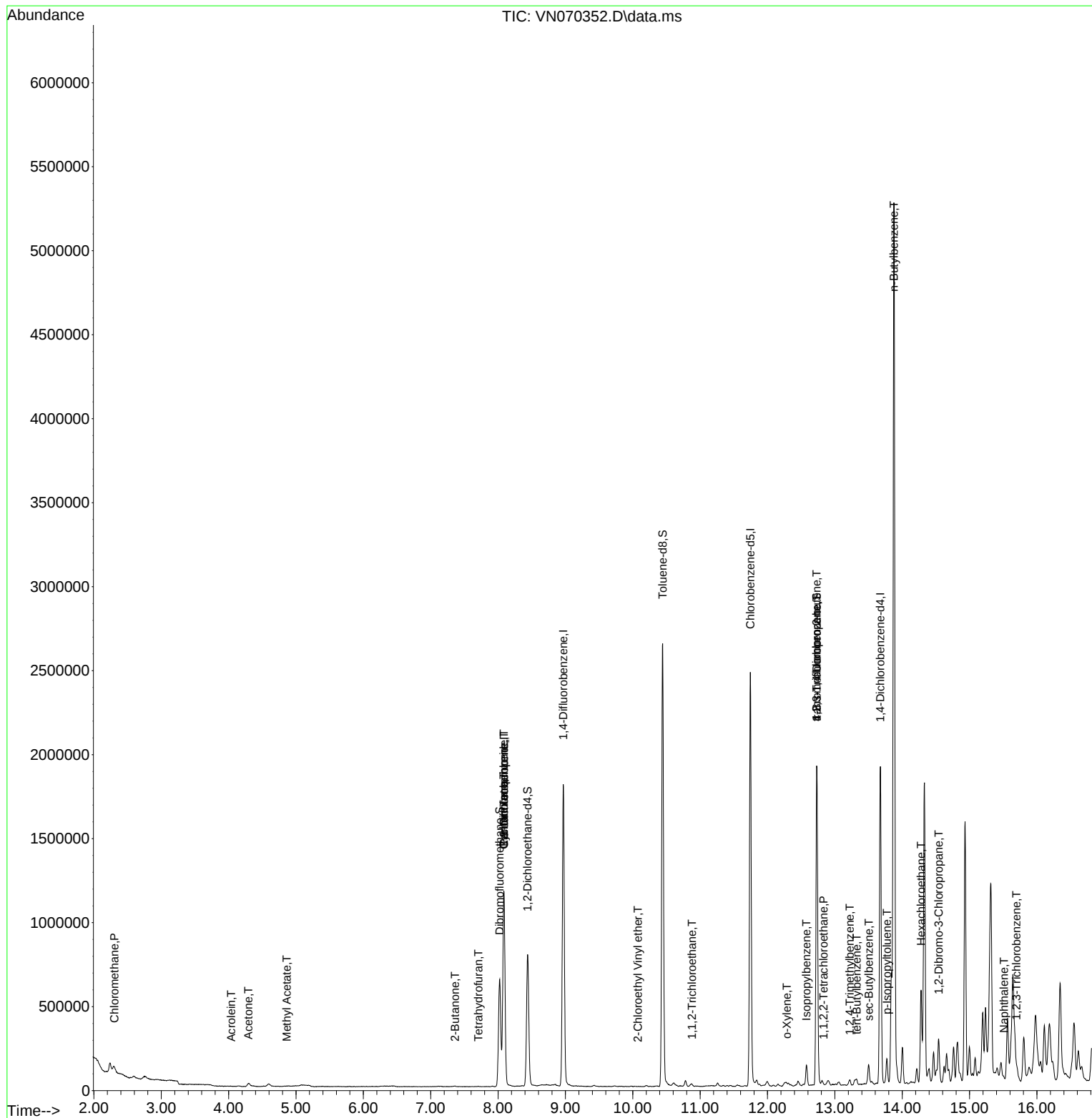
Internal Standards						
1) Pentafluorobenzene	8.085	168	890793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1528016	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	1381915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	514230	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	667037	52.080	ug/l	0.00
Spiked Amount	50.000	Range 61 - 141	Recovery	= 104.160%		
35) Dibromofluoromethane	8.024	113	470867	50.931	ug/l	0.00
Spiked Amount	50.000	Range 69 - 133	Recovery	= 101.860%		
50) Toluene-d8	10.443	98	1808302	47.879	ug/l	0.00
Spiked Amount	50.000	Range 65 - 126	Recovery	= 95.760%		
62) 4-Bromofluorobenzene	12.731	95	688219	50.452	ug/l	0.00
Spiked Amount	50.000	Range 58 - 135	Recovery	= 100.900%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	4183	0.304	ug/l	91
13) Acrolein	4.038	56	1202	0.695	ug/l	85
16) Acetone	4.293	43	32592	3.920	ug/l	96
18) Methyl Acetate	4.862	43	4836	0.201	ug/l #	64
25) 2-Butanone	7.359	43	4949	0.473	ug/l #	87
29) Tetrahydrofuran	7.707	42	1455	0.233	ug/l #	45
31) Cyclohexane	8.083	56	11773	0.582	ug/l #	4
36) 1,1-Dichloropropene	8.085	75	73166	4.784	ug/l #	49
38) Carbon Tetrachloride	8.088	117	88220	6.041	ug/l #	16
55) 1,1,2-Trichloroethane	10.877	97	3657	0.326	ug/l #	22
58) 2-Chloroethyl Vinyl ether	10.076	63	81	18.529	ug/l #	45
69) o-Xylene	12.285	106	4384	0.225	ug/l	99
73) Isopropylbenzene	12.578	105	78280	1.639	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.833	83	222	0.460	ug/l #	25
76) 1,2,3-Trichloropropane	12.731	75	365072	25.403	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	365072	86.738	ug/l #	5
83) tert-Butylbenzene	13.323	119	13422	0.398	ug/l	83
84) 1,2,4-Trimethylbenzene	13.221	105	21625	0.587	ug/l	74
85) sec-Butylbenzene	13.503	105	79159	1.730	ug/l	100
86) p-Isopropyltoluene	13.771	119	78851	2.194	ug/l	94
89) n-Butylbenzene	13.876	91	482693	16.103	ug/l #	44
90) Hexachloroethane	14.278	117	234761	37.604	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.541	75	1068	0.386	ug/l #	1
95) Naphthalene	15.512	128	9075	2.170	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.697	180	1475	1.005	ug/l #	39

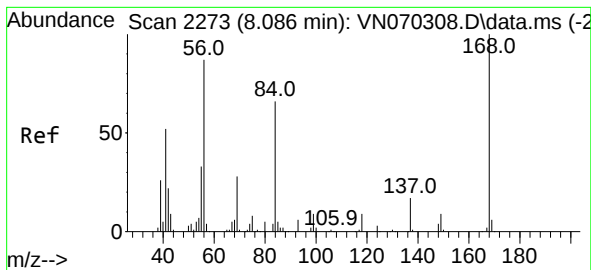
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 27 18:47:12 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.085 min Scan# 21

Delta R.T. -0.001 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

Instrument :

MSVOA_N

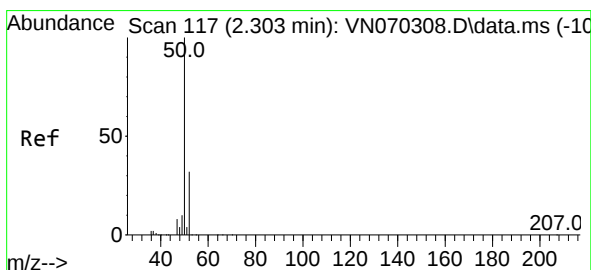
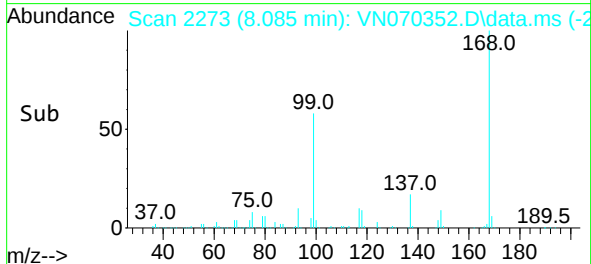
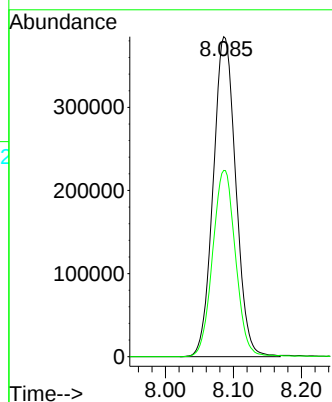
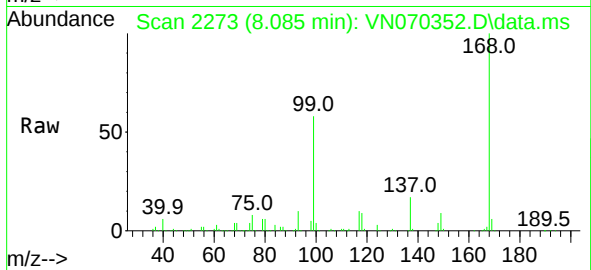
ClientSampleId :

Tgt Ion:168 Resp: 890793

Ion Ratio Lower Upper

168 100

99 58.2 41.3 61.9



#3

Chloromethane

Concen: 0.304 ug/l

RT: 2.303 min Scan# 117

Delta R.T. 0.000 min

Lab File: VN070352.D

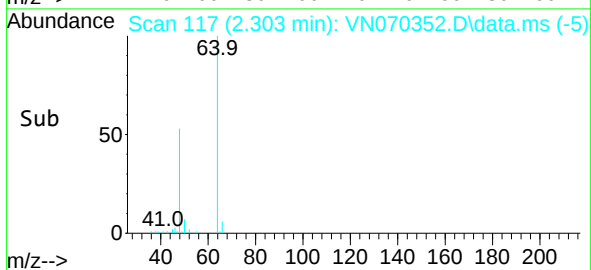
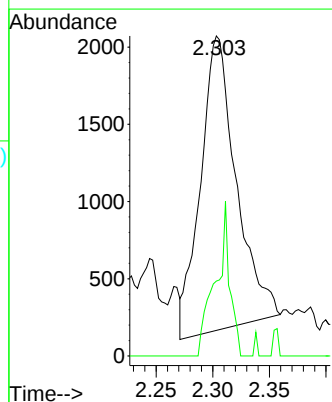
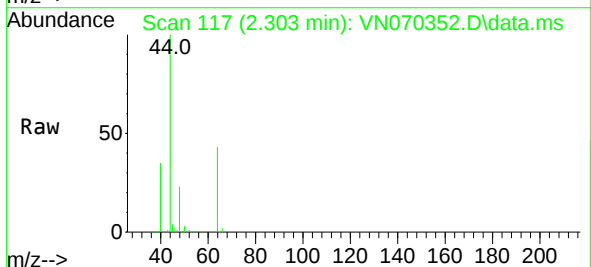
Acq: 29 Dec 2021 16:41

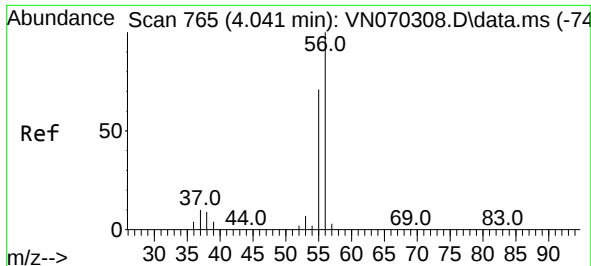
Tgt Ion: 50 Resp: 4183

Ion Ratio Lower Upper

50 100

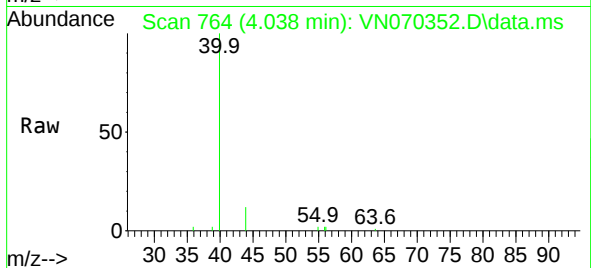
52 26.9 25.4 38.0



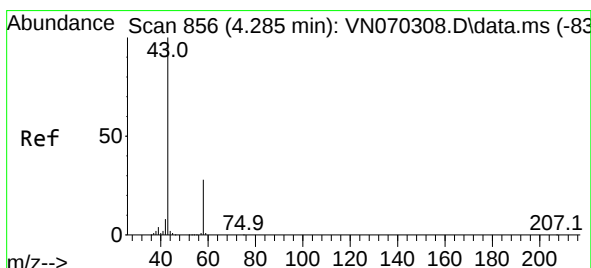
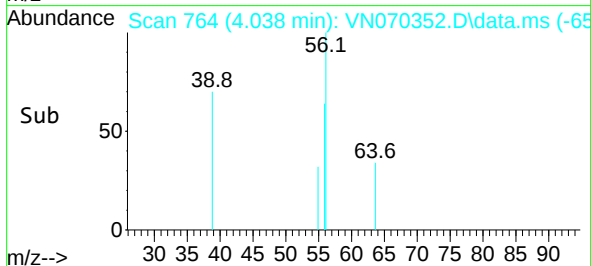
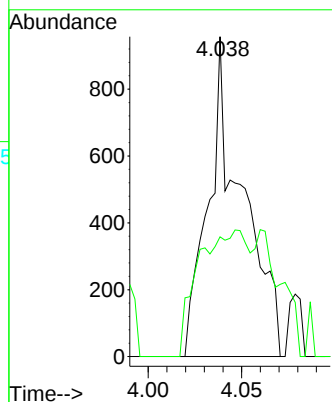


#13
Acrolein
Concen: 0.695 ug/l
RT: 4.038 min Scan# 765
Delta R.T. -0.003 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

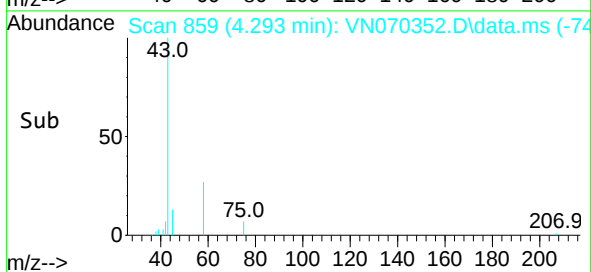
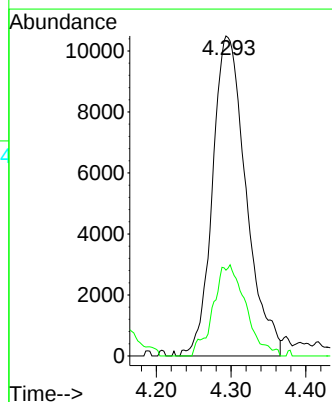
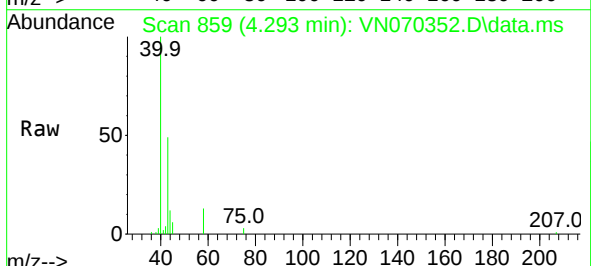


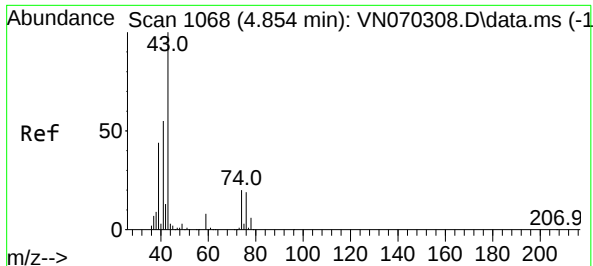
Tgt Ion: 56 Resp: 1202
Ion Ratio Lower Upper
56 100
55 58.3 56.6 85.0



#16
Acetone
Concen: 3.920 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.008 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

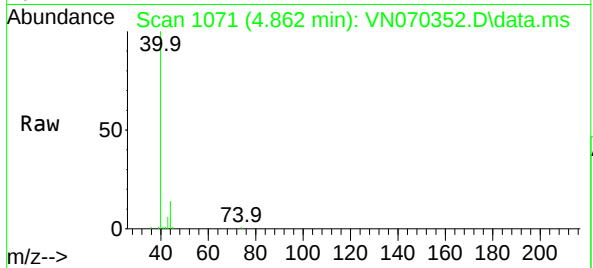
Tgt Ion: 43 Resp: 32592
Ion Ratio Lower Upper
43 100
58 26.8 23.1 34.7



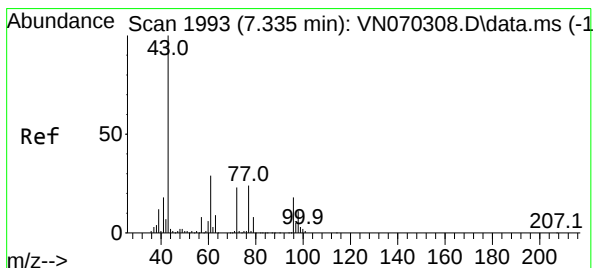
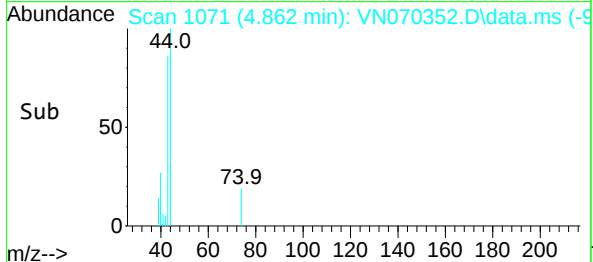
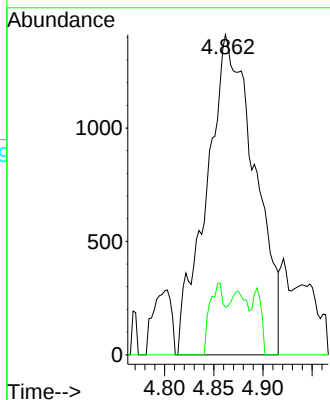


#18
Methyl Acetate
Concen: 0.201 ug/l
RT: 4.862 min Scan# 1068
Delta R.T. 0.008 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

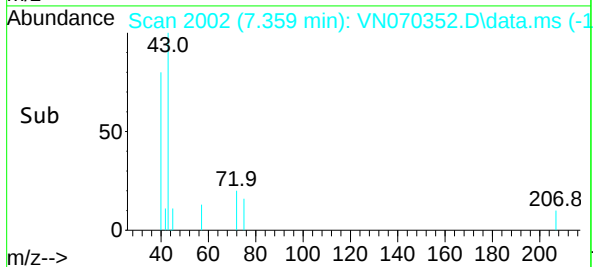
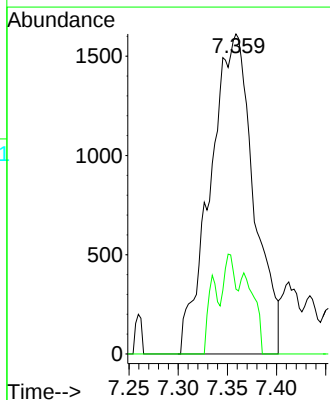
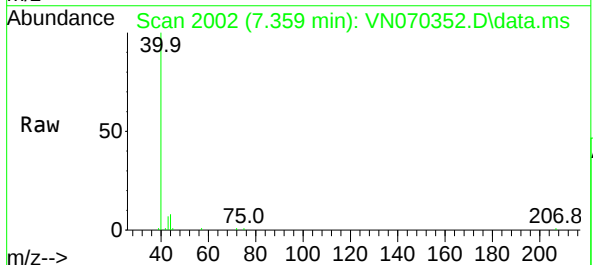


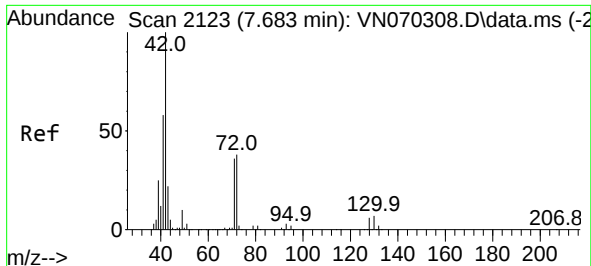
Tgt Ion: 43 Resp: 4836
Ion Ratio Lower Upper
43 100
74 6.6 19.4 29.2#



#25
2-Butanone
Concen: 0.473 ug/l
RT: 7.359 min Scan# 2002
Delta R.T. 0.024 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Tgt Ion: 43 Resp: 4949
Ion Ratio Lower Upper
43 100
72 20.3 21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.233 ug/l

RT: 7.707 min Scan# 2123

Delta R.T. 0.024 min

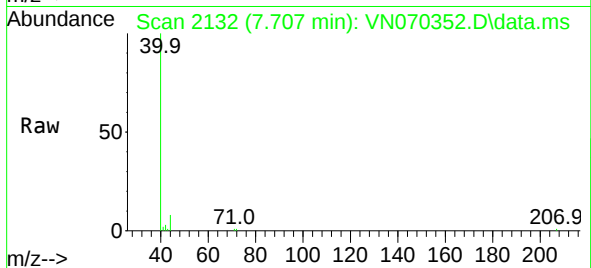
Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

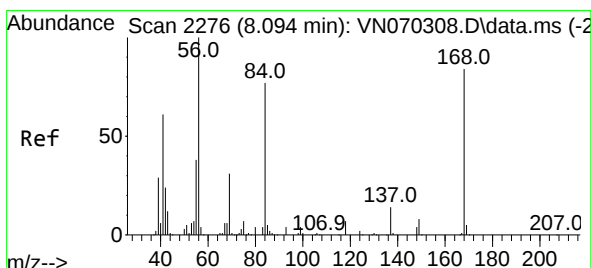
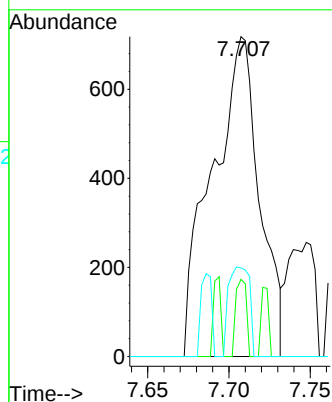
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1455
Ion Ratio	Lower	Upper	
42	100		
72	5.4	36.3	54.5#
71	12.4	34.7	52.1#



#31

Cyclohexane

Concen: 0.582 ug/l

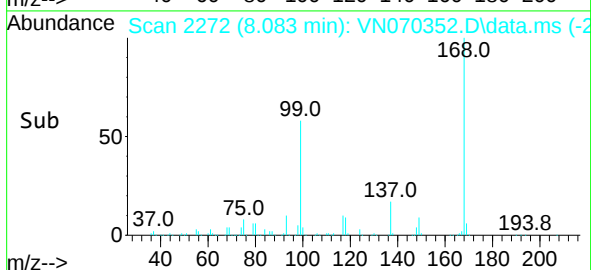
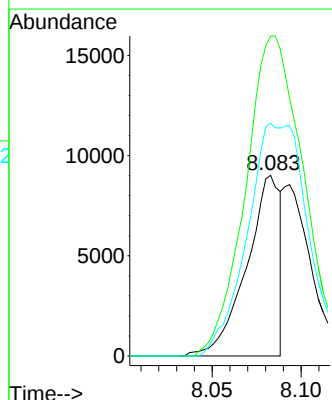
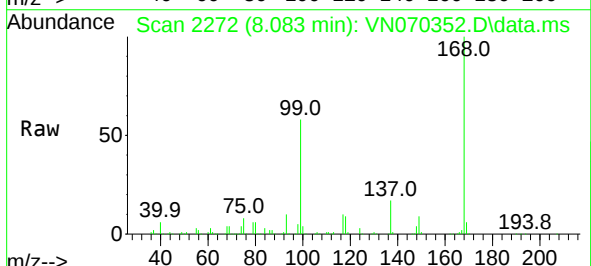
RT: 8.083 min Scan# 2272

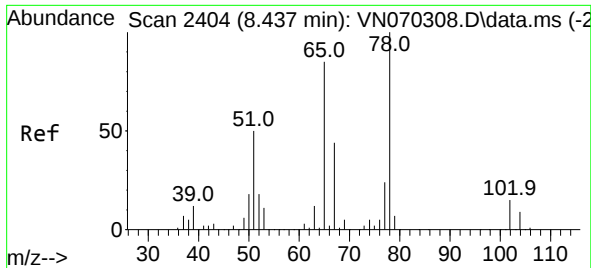
Delta R.T. -0.011 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

Tgt Ion:	56	Resp:	11773
Ion Ratio	Lower	Upper	
56	100		
69	177.0	27.1	40.7#
84	128.7	73.4	110.0#





#33

1,2-Dichloroethane-d4

Concen: 52.080 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. -0.000 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

Instrument :

MSVOA_N

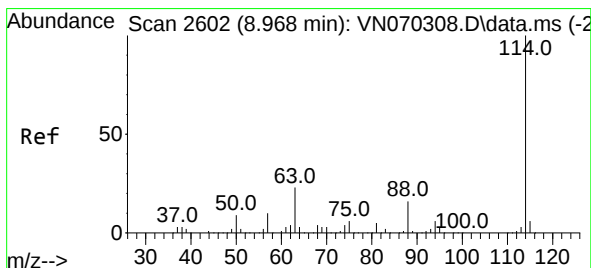
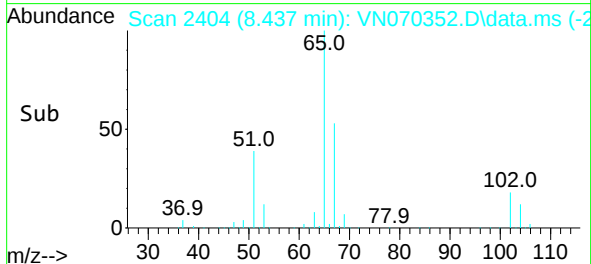
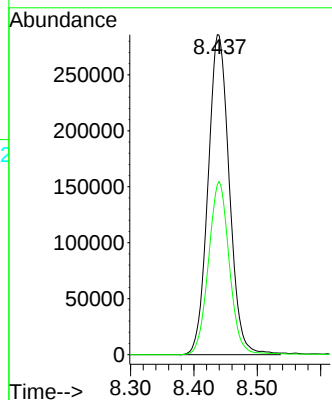
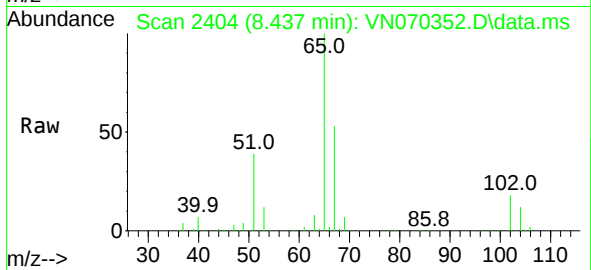
ClientSampleId :

Tgt Ion: 65 Resp: 667037

Ion Ratio Lower Upper

65 100

67 52.7 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: VN070352.D

Acq: 29 Dec 2021 16:41

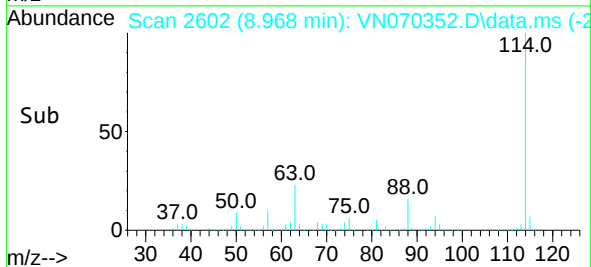
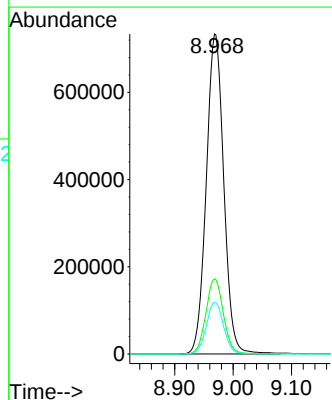
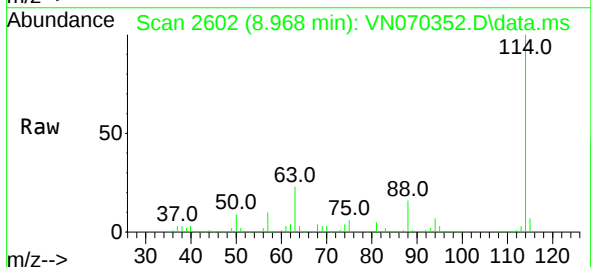
Tgt Ion: 114 Resp: 1528016

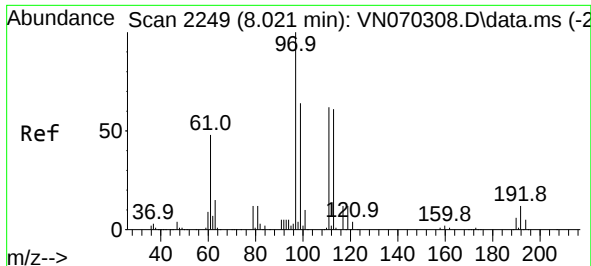
Ion Ratio Lower Upper

114 100

63 23.5 0.0 37.8

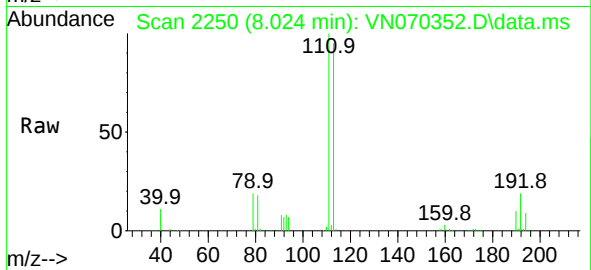
88 16.1 0.0 27.4



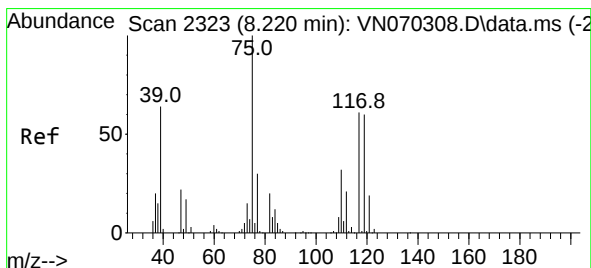
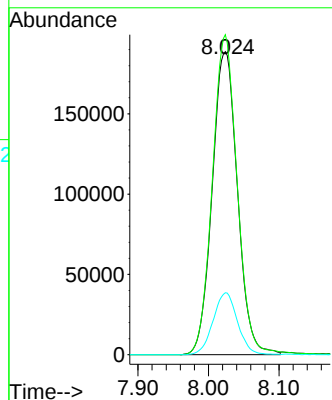
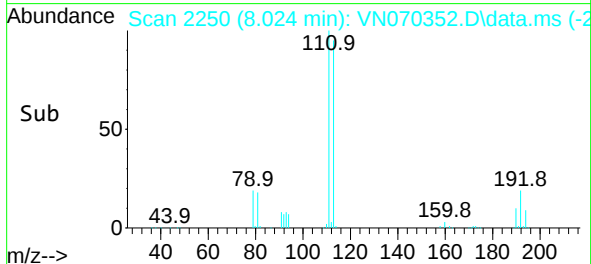


#35
Dibromofluoromethane
Concen: 50.931 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.003 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

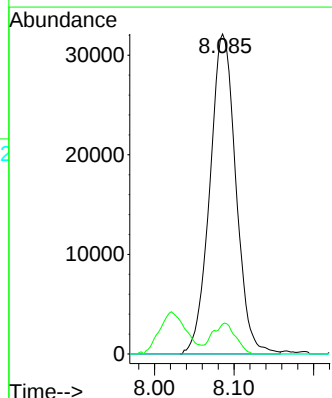
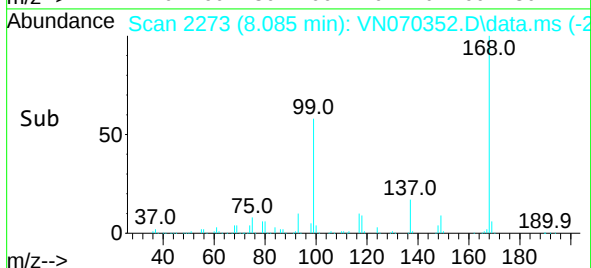
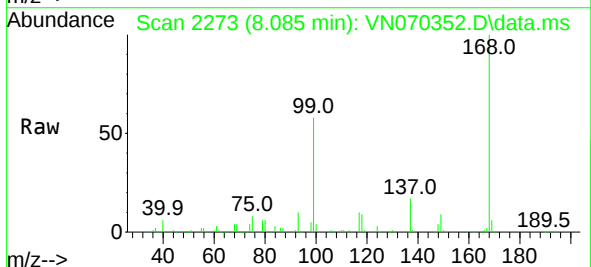


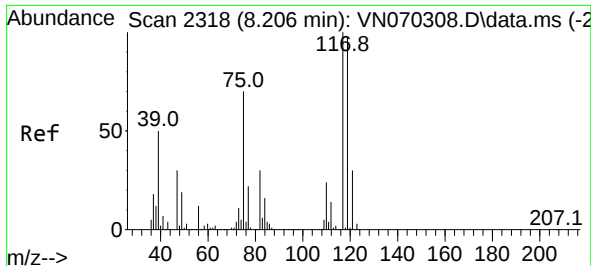
Tgt Ion:113 Resp: 470867
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.2
192 19.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.784 ug/l
RT: 8.085 min Scan# 2273
Delta R.T. -0.135 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

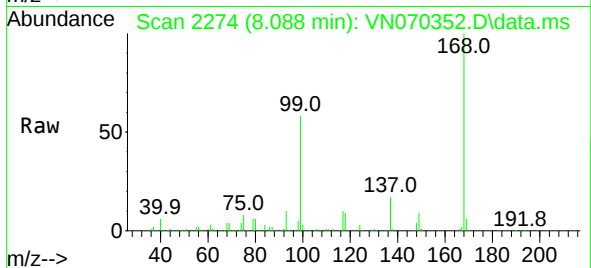
Tgt Ion: 75 Resp: 73166
Ion Ratio Lower Upper
75 100
110 8.6 18.4 55.2#
77 0.0 24.4 36.6#



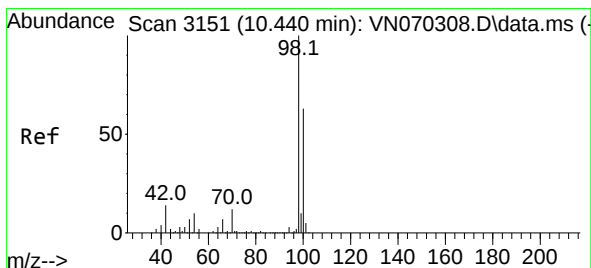
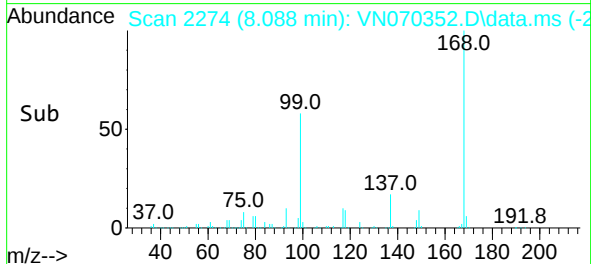
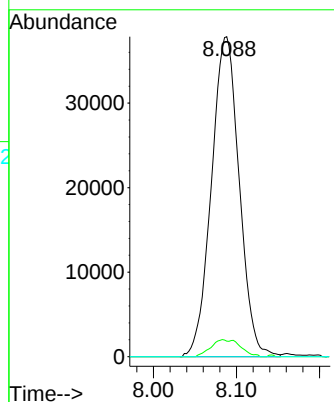


#38
Carbon Tetrachloride
Concen: 6.041 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.118 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

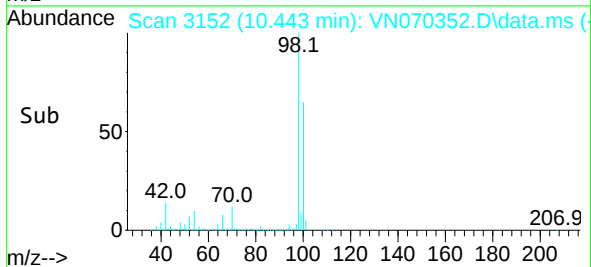
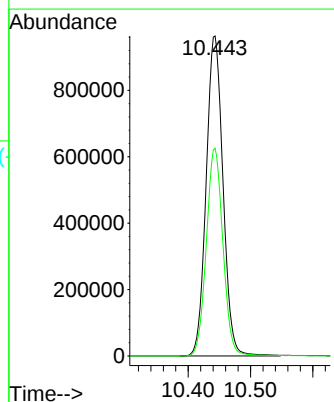
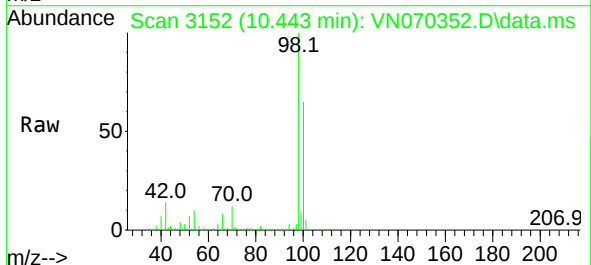


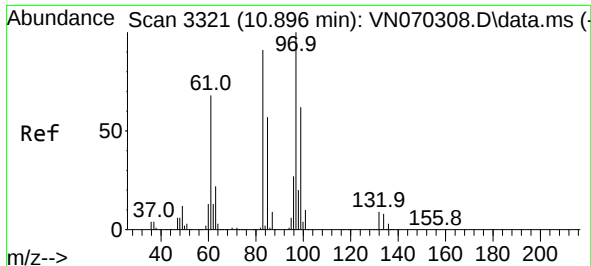
Tgt Ion:117 Resp: 88220
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 47.879 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

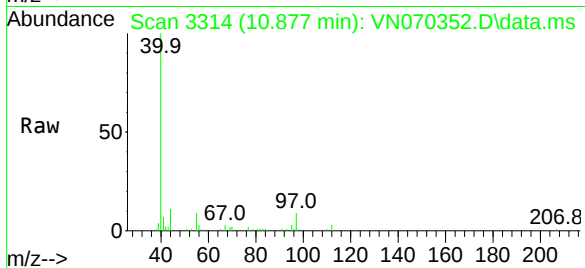
Tgt Ion: 98 Resp: 1808302
Ion Ratio Lower Upper
98 100
100 64.0 50.4 75.6



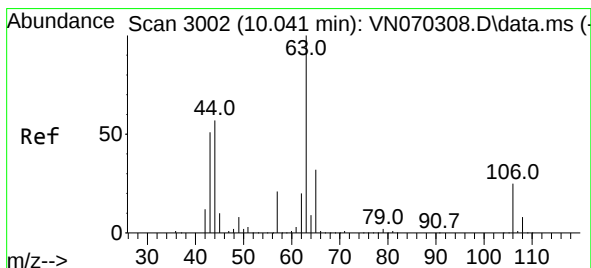
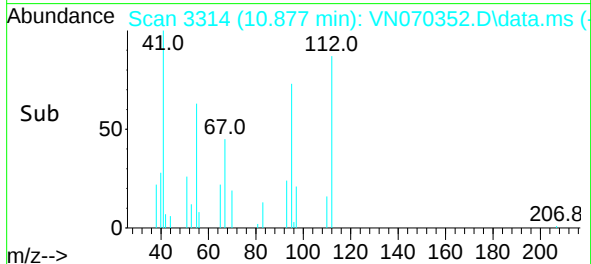
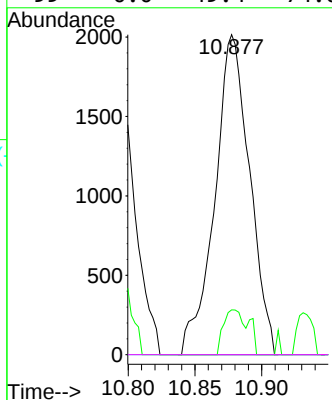


#55
1,1,2-Trichloroethane
Concen: 0.326 ug/l
RT: 10.877 min Scan# 31
Delta R.T. -0.019 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

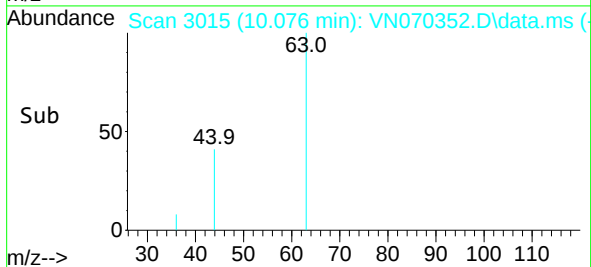
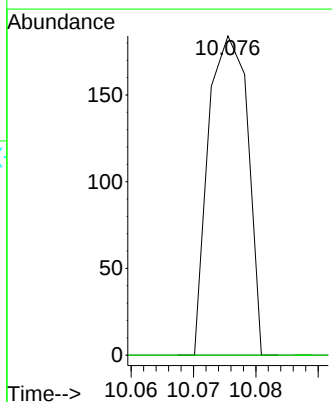
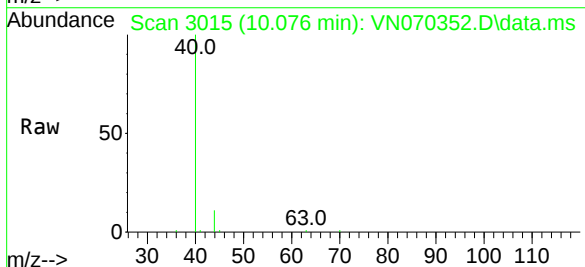


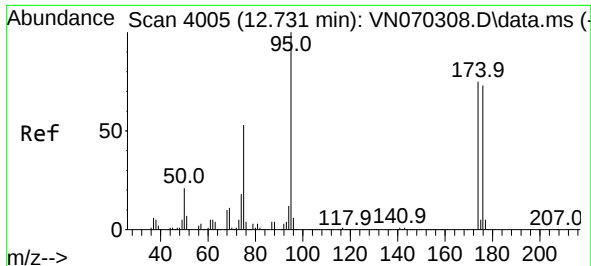
Tgt Ion: 97 Resp: 3657
Ion Ratio Lower Upper
97 100
83 14.0 67.8 101.6#
85 0.0 45.4 68.2#
99 0.0 49.4 74.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.529 ug/l
RT: 10.076 min Scan# 3015
Delta R.T. 0.035 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Tgt Ion: 63 Resp: 81
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

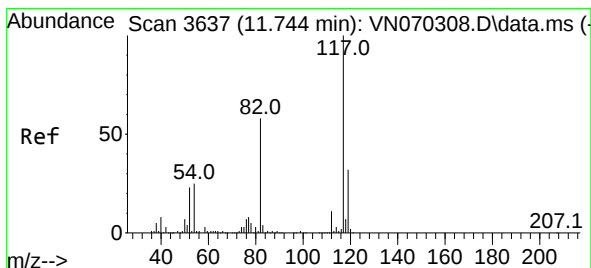
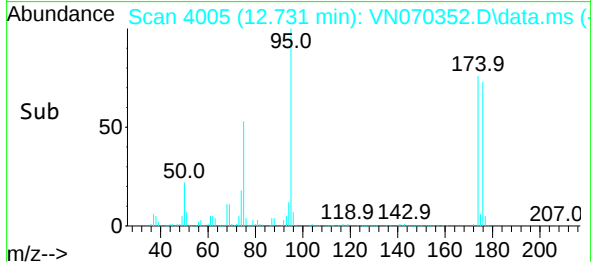
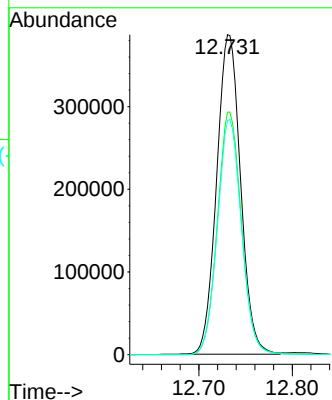
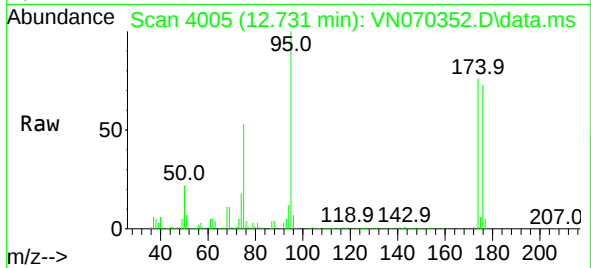




#62
4-Bromofluorobenzene
Concen: 50.452 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

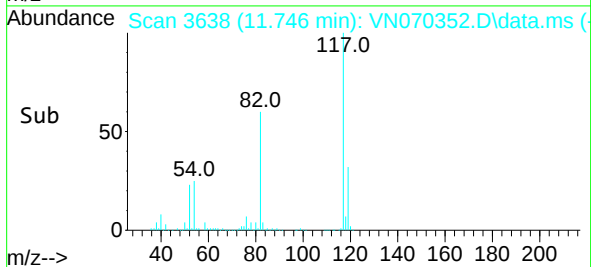
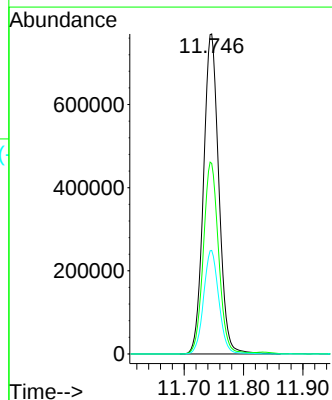
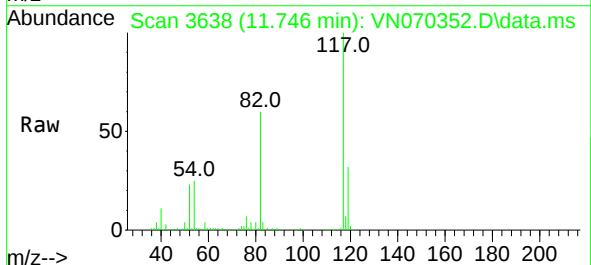
Instrument :
MSVOA_N
ClientSampleId :

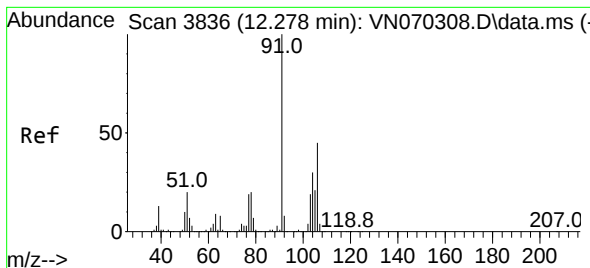
Tgt Ion: 95 Resp: 688219
Ion Ratio Lower Upper
95 100
174 76.5 0.0 187.2
176 74.0 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.002 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Tgt Ion: 117 Resp: 1381915
Ion Ratio Lower Upper
117 100
82 59.5 42.4 63.6
119 32.3 25.4 38.2





#69

o-Xylene

Concen: 0.225 ug/l

RT: 12.285 min Scan# 3839

Delta R.T. 0.007 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

Instrument :

MSVOA_N

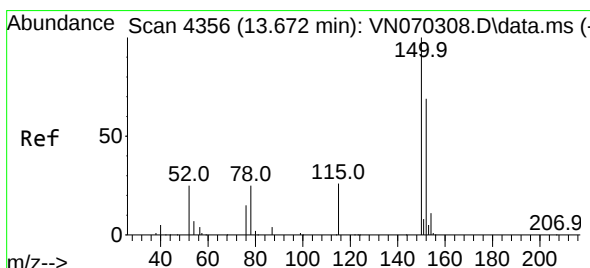
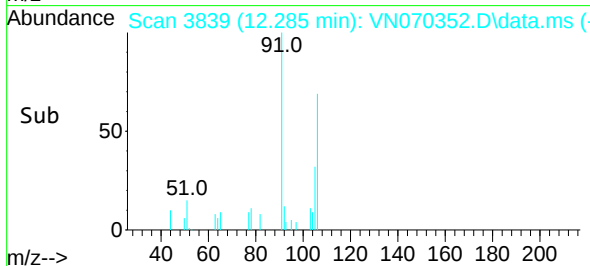
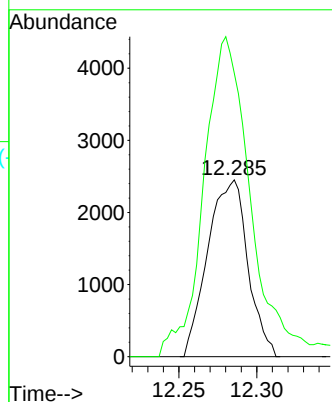
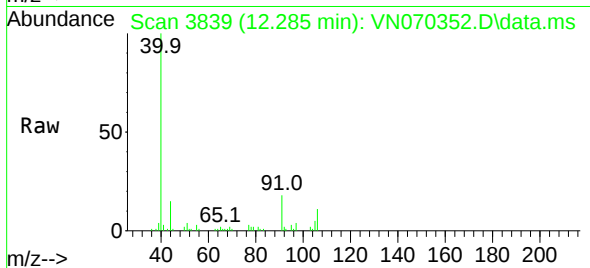
ClientSampleId :

Tgt Ion:106 Resp: 4384

Ion Ratio Lower Upper

106 100

91 209.7 105.8 317.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.675 min Scan# 4357

Delta R.T. 0.003 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

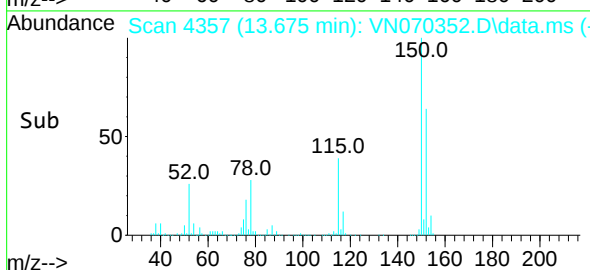
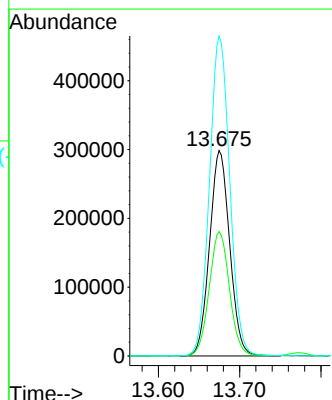
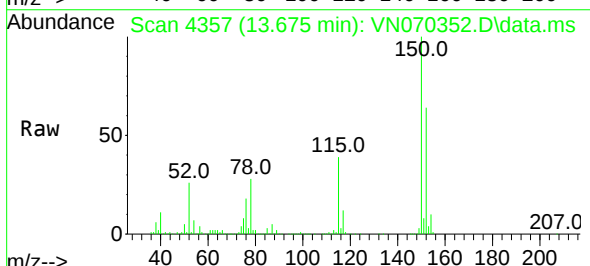
Tgt Ion:152 Resp: 514230

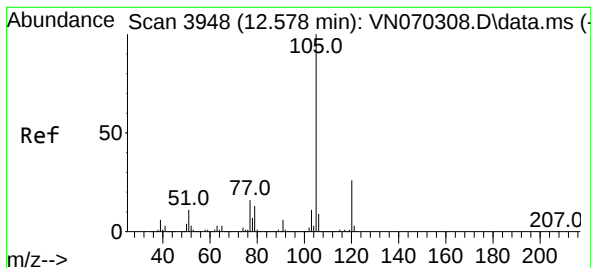
Ion Ratio Lower Upper

152 100

115 60.4 27.5 82.5

150 156.7 0.0 344.4





#73

Isopropylbenzene

Concen: 1.639 ug/l

RT: 12.578 min Scan# 3948

Delta R.T. -0.000 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

Instrument :

MSVOA_N

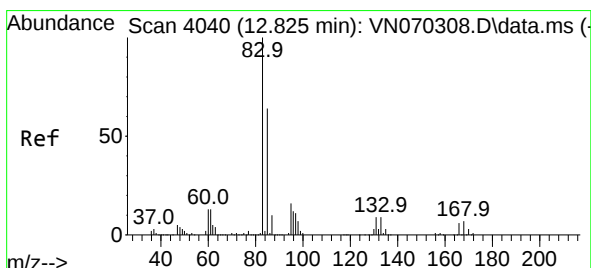
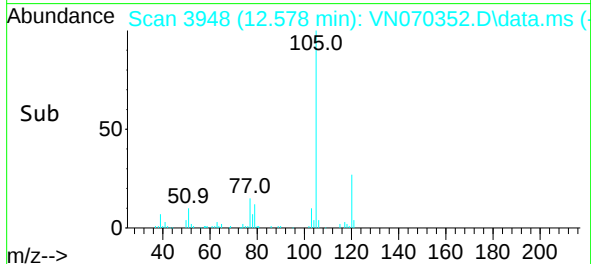
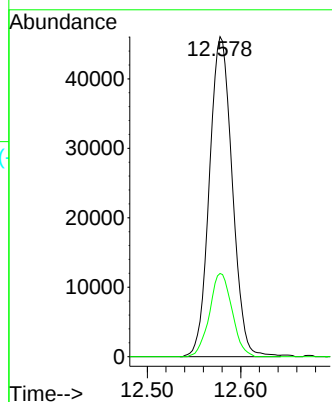
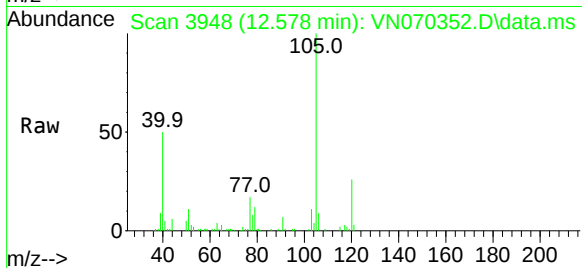
ClientSampleId :

Tgt Ion:105 Resp: 78280

Ion Ratio Lower Upper

105 100

120 25.6 13.4 40.1



#75

1,1,2,2-Tetrachloroethane

Concen: 0.460 ug/l

RT: 12.833 min Scan# 4043

Delta R.T. 0.008 min

Lab File: VN070352.D

Acq: 29 Dec 2021 16:41

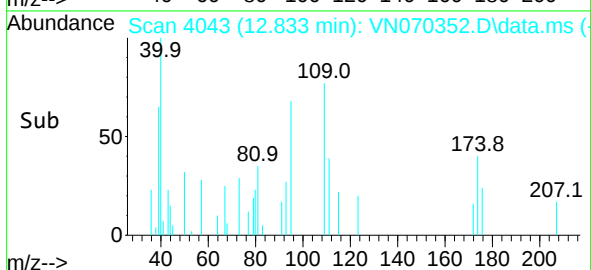
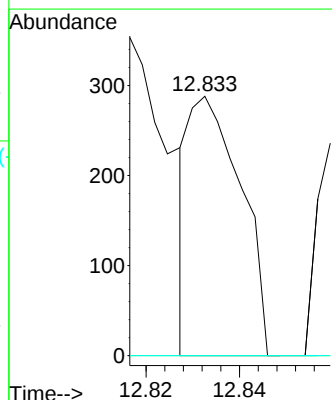
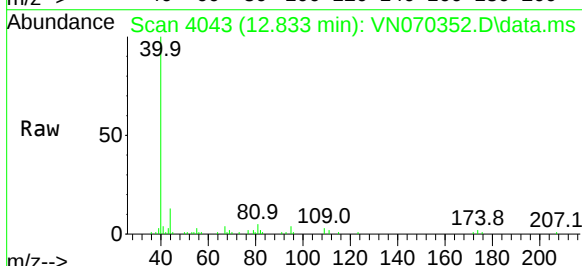
Tgt Ion: 83 Resp: 222

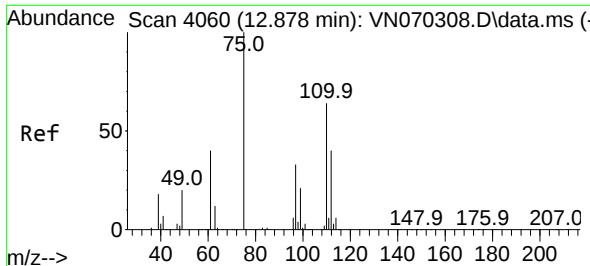
Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.5#

85 0.0 32.4 97.2#

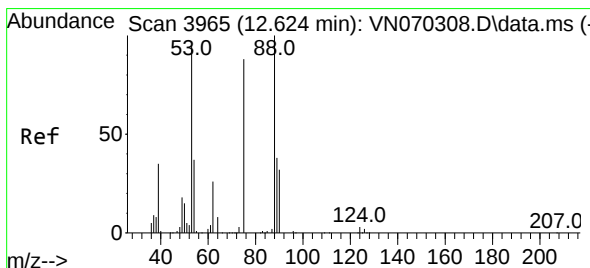
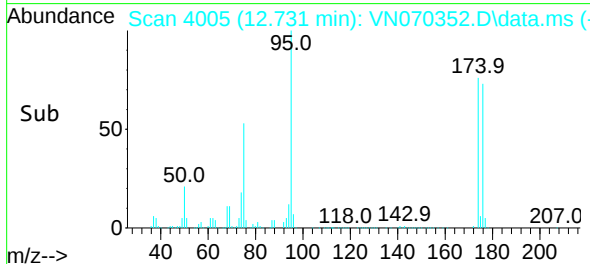
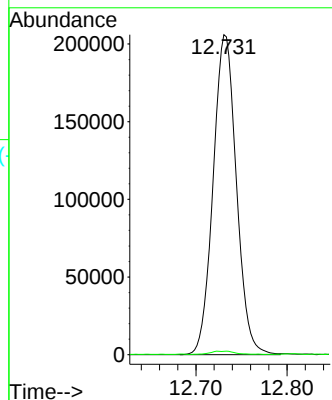
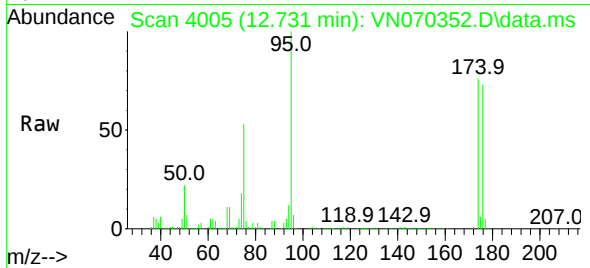




#76
1,2,3-Trichloropropane
Concen: 25.403 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

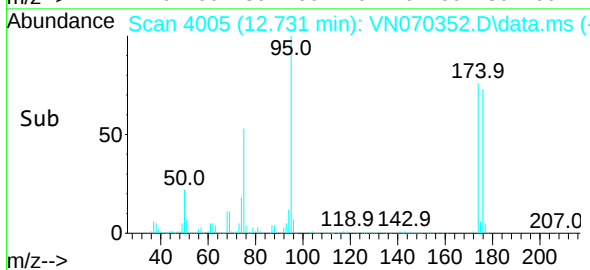
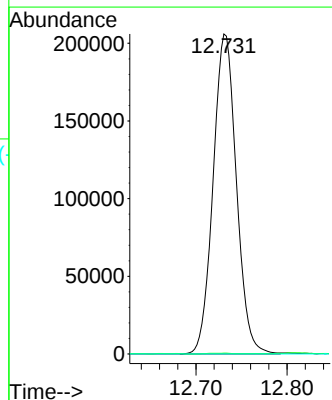
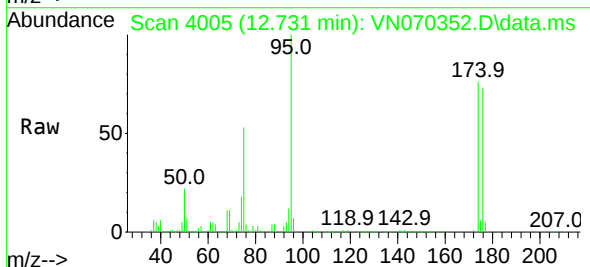
Instrument :
MSVOA_N
ClientSampleId :

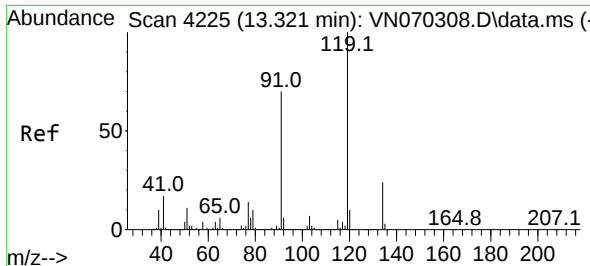
Tgt Ion: 75 Resp: 365072
Ion Ratio Lower Upper
75 100
77 0.5 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 86.738 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Tgt Ion: 75 Resp: 365072
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

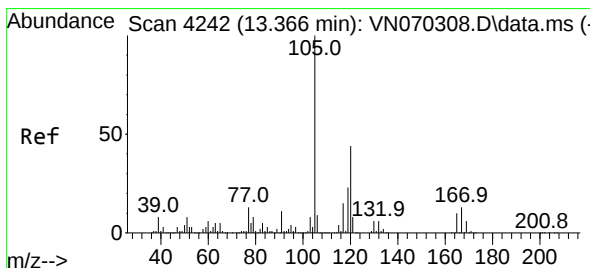
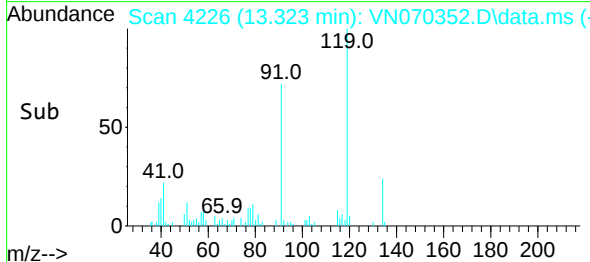
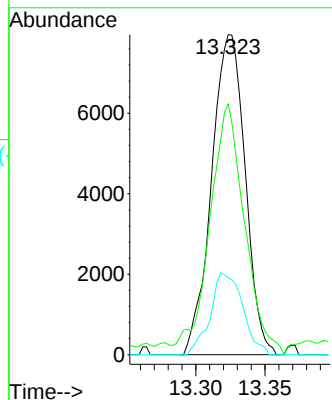
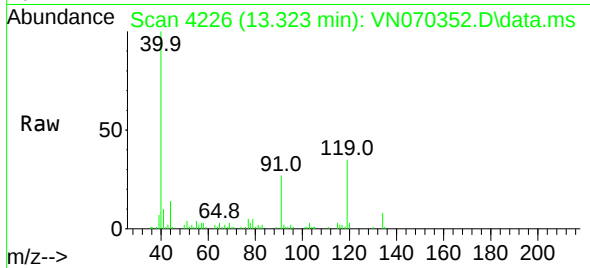




#83
tert-Butylbenzene
Concen: 0.398 ug/l
RT: 13.323 min Scan# 4188
Delta R.T. 0.002 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

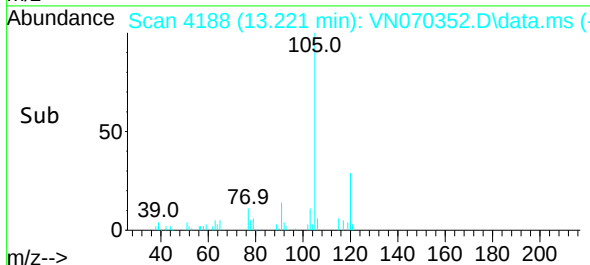
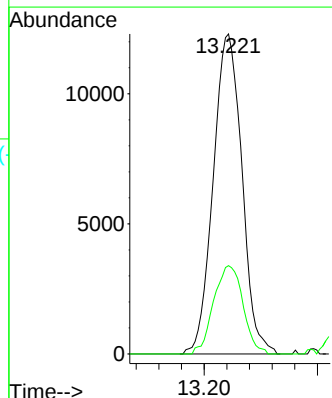
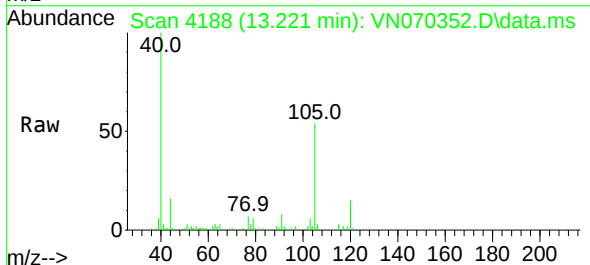
Instrument :
MSVOA_N
ClientSampleId :

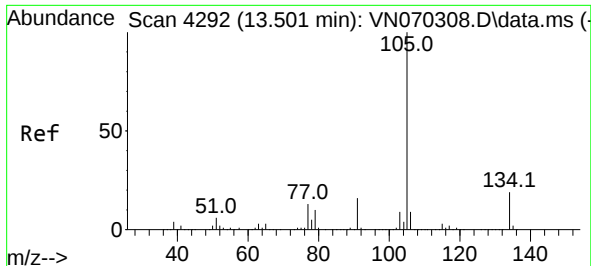
Tgt Ion:119 Resp: 13422
Ion Ratio Lower Upper
119 100
91 81.2 31.5 94.5
134 24.6 12.4 37.4



#84
1,2,4-Trimethylbenzene
Concen: 0.587 ug/l
RT: 13.221 min Scan# 4188
Delta R.T. -0.145 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Tgt Ion:105 Resp: 21625
Ion Ratio Lower Upper
105 100
120 28.2 22.8 68.4

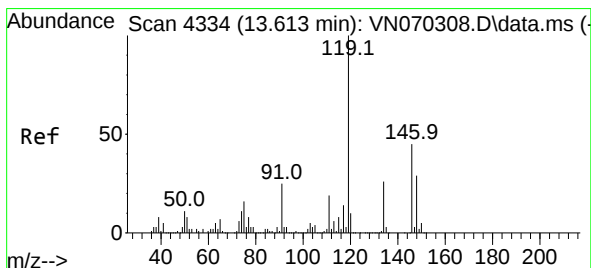
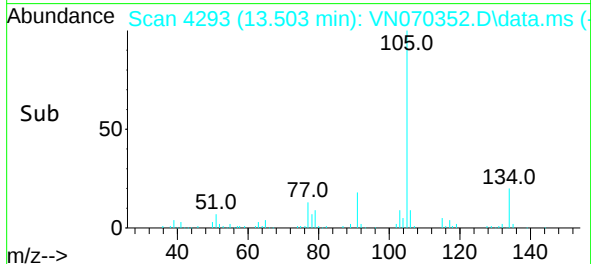
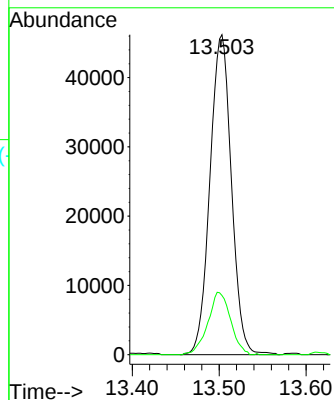
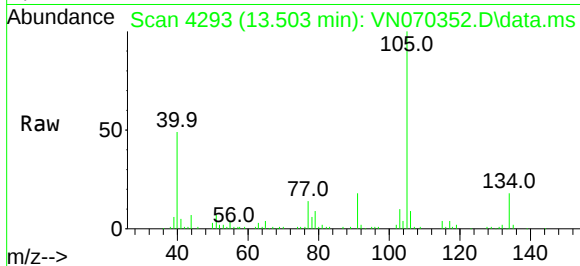




#85
 sec-Butylbenzene
 Concen: 1.730 ug/l
 RT: 13.503 min Scan# 41
 Delta R.T. 0.002 min
 Lab File: VN070352.D
 Acq: 29 Dec 2021 16:41

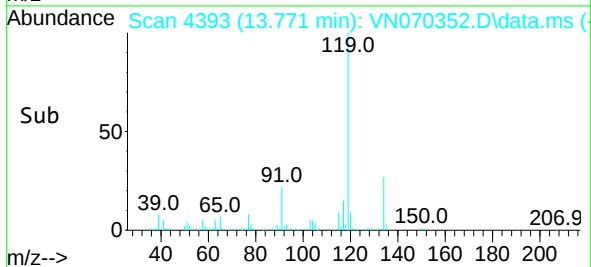
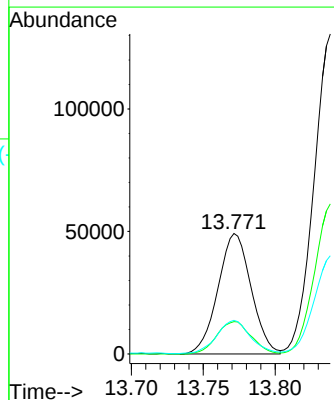
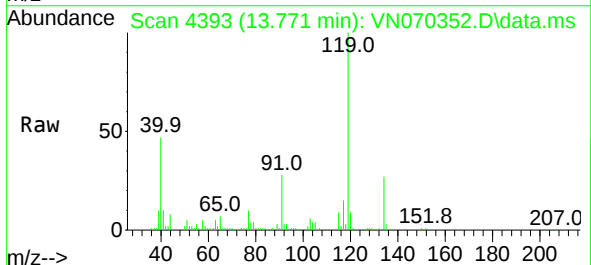
Instrument :
 MSVOA_N
 ClientSampleId :

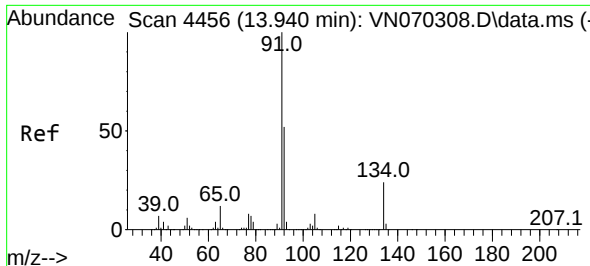
Tgt Ion:105 Resp: 79159
 Ion Ratio Lower Upper
 105 100
 134 20.7 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 2.194 ug/l
 RT: 13.771 min Scan# 4393
 Delta R.T. 0.158 min
 Lab File: VN070352.D
 Acq: 29 Dec 2021 16:41

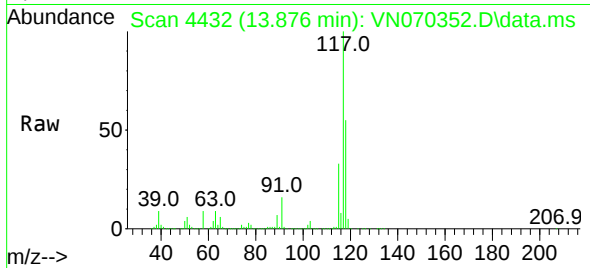
Tgt Ion:119 Resp: 78851
 Ion Ratio Lower Upper
 119 100
 134 27.8 13.6 40.7
 91 27.9 11.4 34.1



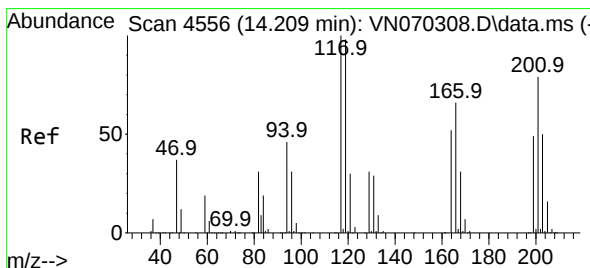
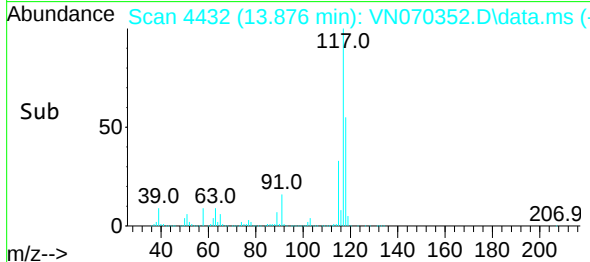
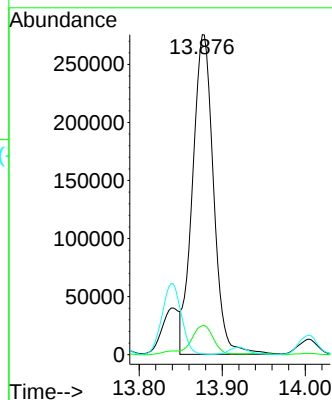


#89
n-Butylbenzene
Concen: 16.103 ug/l
RT: 13.876 min Scan# 4456
Delta R.T. -0.064 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

Instrument :
MSVOA_N
ClientSampleId :

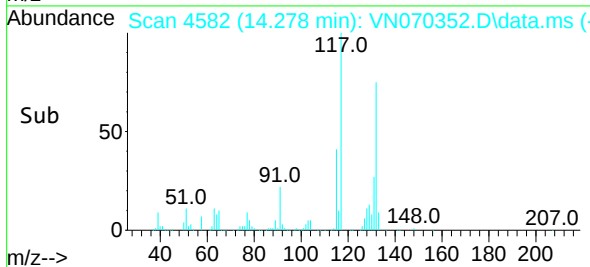
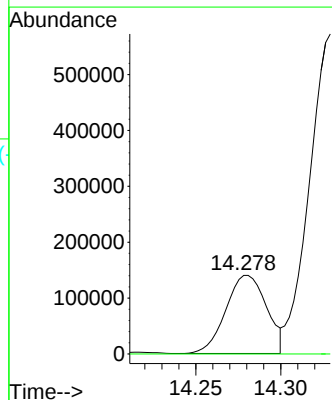
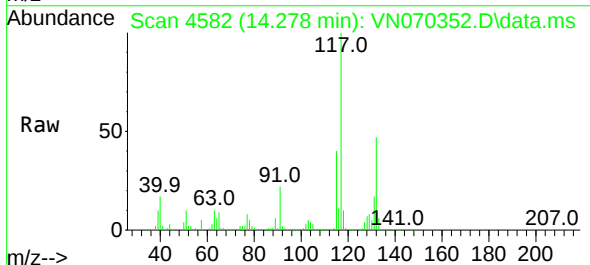


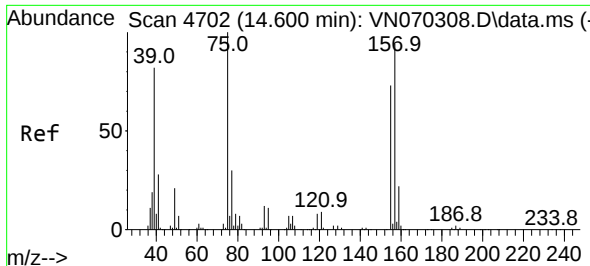
Tgt Ion: 91 Resp: 482693
Ion Ratio Lower Upper
91 100
92 10.3 25.4 76.0#
134 0.0 13.6 40.8#



#90
Hexachloroethane
Concen: 37.604 ug/l
RT: 14.278 min Scan# 4582
Delta R.T. 0.069 min
Lab File: VN070352.D
Acq: 29 Dec 2021 16:41

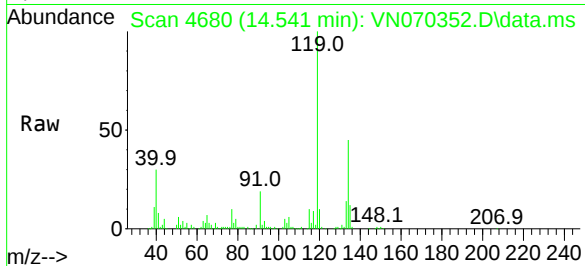
Tgt Ion: 117 Resp: 234761
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#



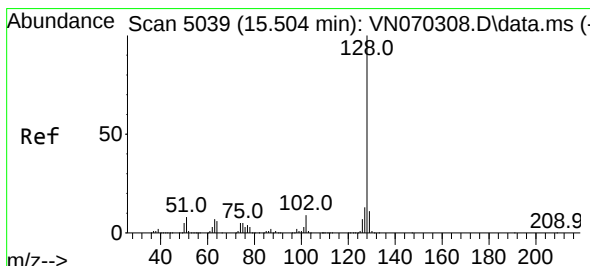
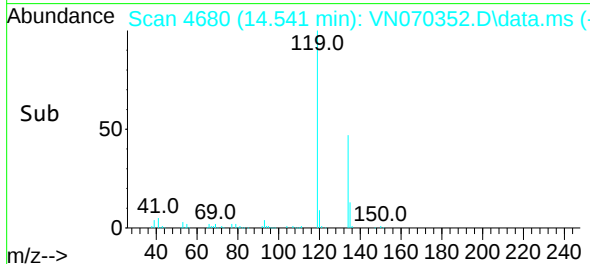
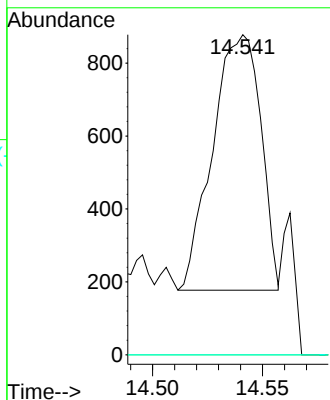


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.386 ug/l
 RT: 14.541 min Scan# 41
 Delta R.T. -0.059 min
 Lab File: VN070352.D
 Acq: 29 Dec 2021 16:41

Instrument :
 MSVOA_N
 ClientSampleId :

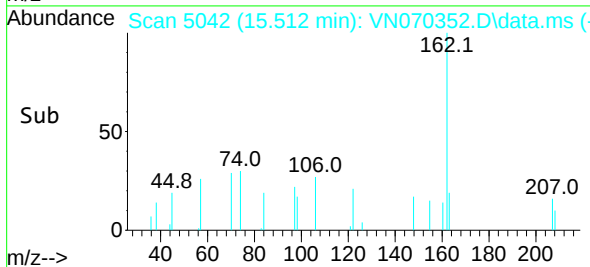
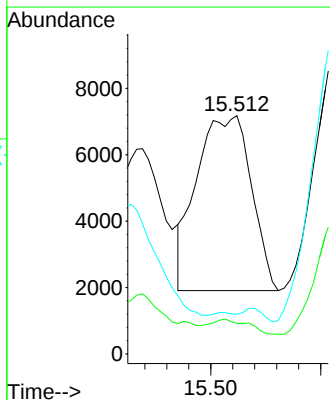
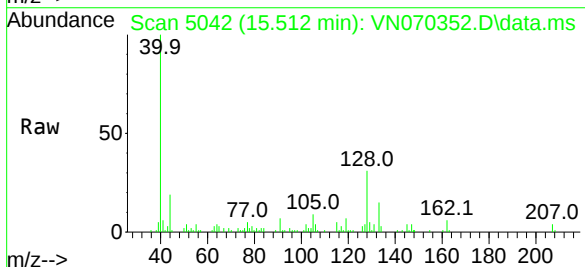


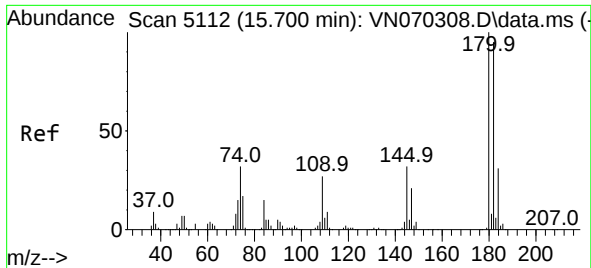
Tgt Ion: 75 Resp: 1068
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.9 140.7#
 157 0.0 60.6 181.7#



#95
 Naphthalene
 Concen: 2.170 ug/l
 RT: 15.512 min Scan# 5042
 Delta R.T. 0.008 min
 Lab File: VN070352.D
 Acq: 29 Dec 2021 16:41

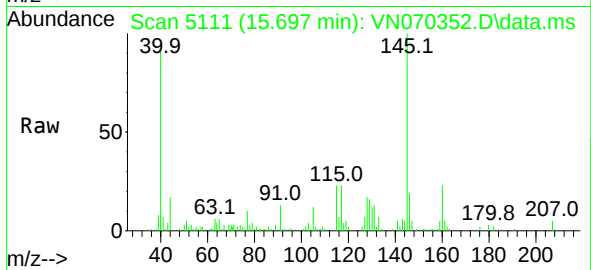
Tgt Ion: 128 Resp: 9075
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.005 ug/l
 RT: 15.697 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VN070352.D
 Acq: 29 Dec 2021 16:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	34.2	47.4	142.2#
145	0.0	15.0	45.1#

