

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069141.D
 Acq On : 22 Oct 2021 18:08
 Operator : JC/MD
 Sample : M4301-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 23 07:56:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

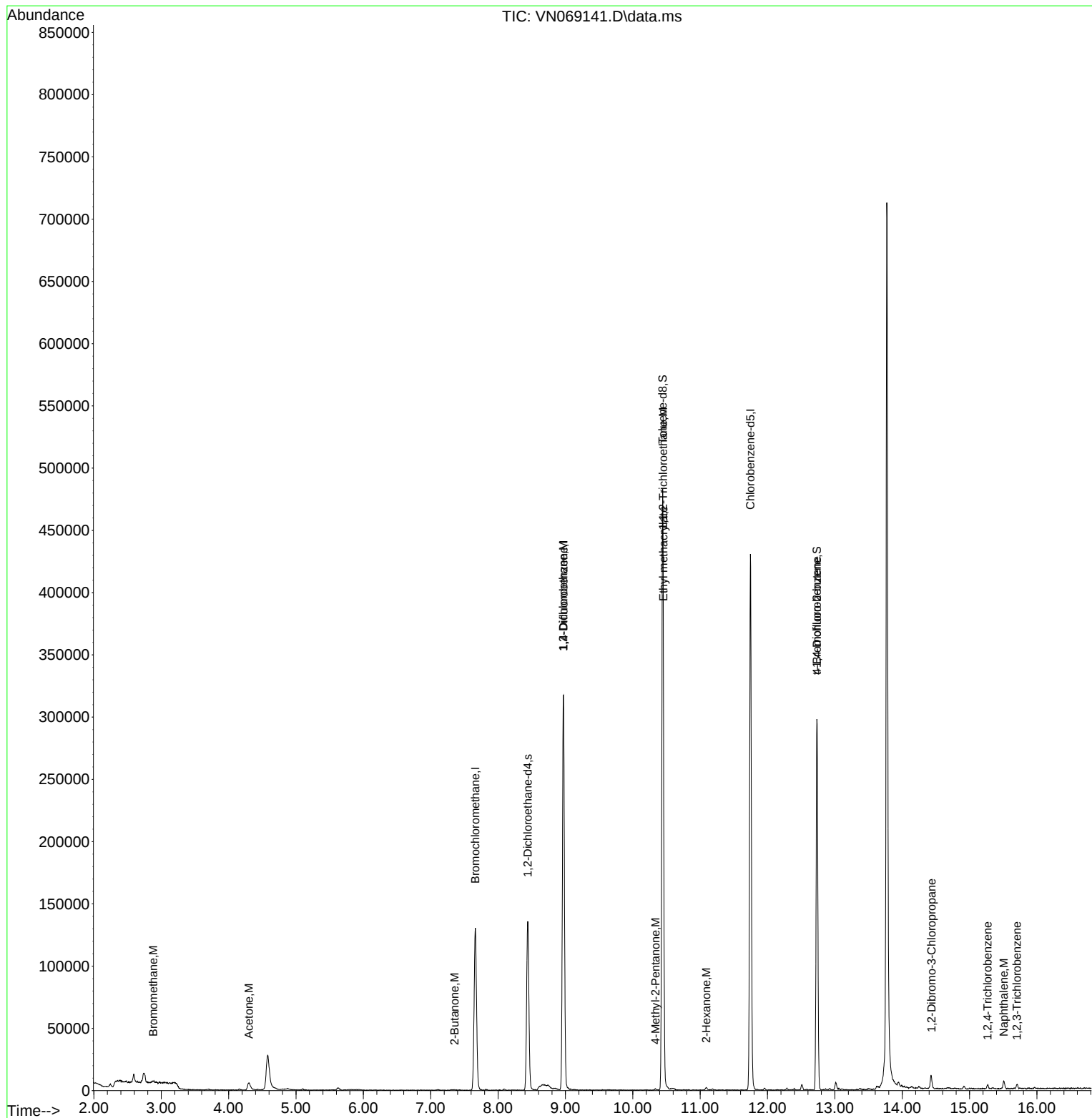
Internal Standards						
1) Bromochloromethane	7.662	128	48005	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	287077	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	252188	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	118216	31.617	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.400%	
60) 4-Bromofluorobenzene	12.733	95	109724	25.374	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 84.567%	
63) Toluene-d8	10.443	98	349211	30.649	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.167%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.880	94	752	0.291	ug/l	94
15) Acetone	4.299	58	2063	4.523	ug/l	88
30) 2-Butanone	7.353	43	733	0.338	ug/l #	53
36) 1,2-Dichloroethane	8.968	62	10277	2.111	ug/l #	77
50) 1,1,2-Trichloroethane	10.451	97	12151	3.520	ug/l #	1
51) Ethyl methacrylate	10.454	69	1334	0.234	ug/l	85
58) 4-Methyl-2-Pentanone	10.338	43	1140	0.268	ug/l #	52
59) 2-Hexanone	11.092	43	1894	0.589	ug/l #	70
77) t-1,4-Dichloro-2-butene	12.733	75	56920	35.448	ug/l #	8
88) 1,2-Dibromo-3-Chloropr...	14.434	75	185	0.208	ug/l #	5
89) 1,2,4-Trichlorobenzene	15.268	180	1124	0.359	ug/l #	83
91) Naphthalene	15.507	128	6764	0.746	ug/l #	96
92) 1,2,3-Trichlorobenzene	15.702	180	1519	0.507	ug/l	81

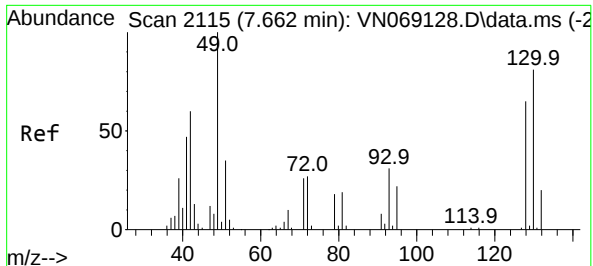
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
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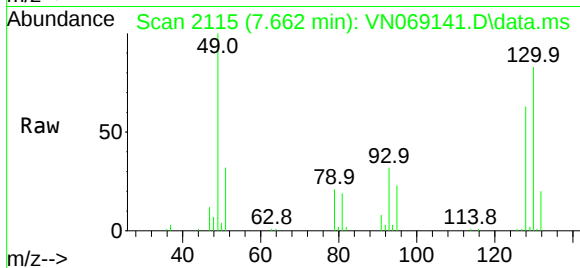
Quant Time: Oct 23 07:56:19 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 22 13:15:19 2021
Response via : Initial Calibration



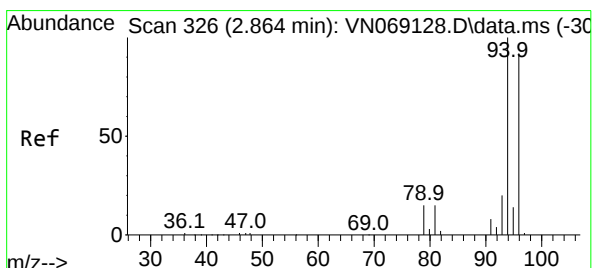
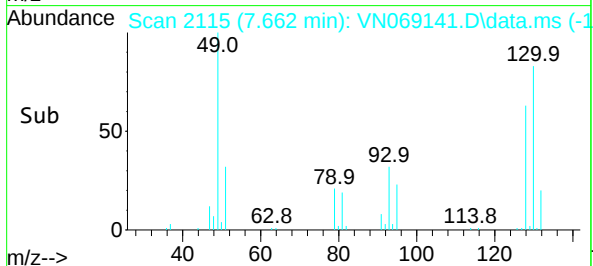
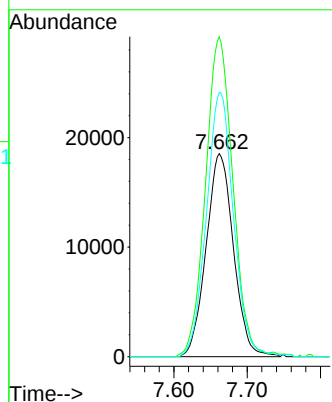


#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.662 min Scan# 2115
 Delta R.T. -0.000 min
 Lab File: VN069141.D
 Acq: 22 Oct 2021 18:08

Instrument :
 MSVOA_N
 ClientSampleId :

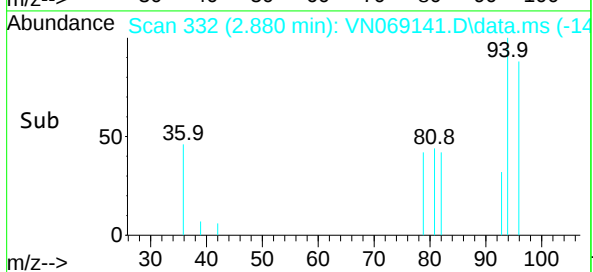
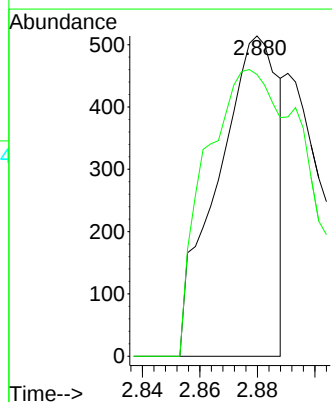
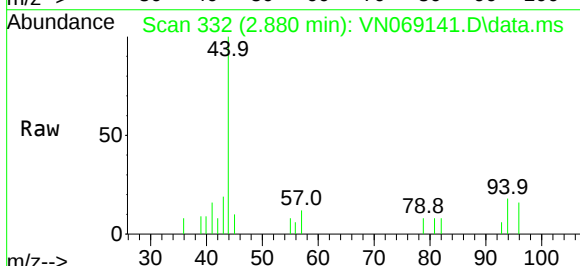


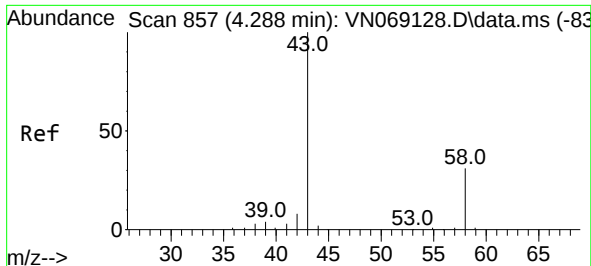
Tgt Ion:128 Resp: 48005
 Ion Ratio Lower Upper
 128 100
 49 157.2 0.0 392.3
 130 128.8 0.0 320.2



#5
 Bromomethane
 Concen: 0.291 ug/l
 RT: 2.880 min Scan# 332
 Delta R.T. 0.016 min
 Lab File: VN069141.D
 Acq: 22 Oct 2021 18:08

Tgt Ion: 94 Resp: 752
 Ion Ratio Lower Upper
 94 100
 96 87.9 75.2 112.8





#15

Acetone

Concen: 4.523 ug/l

RT: 4.299 min Scan# 80

Delta R.T. 0.011 min

Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

Instrument :

MSVOA_N

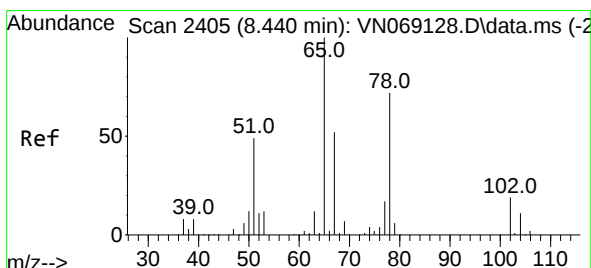
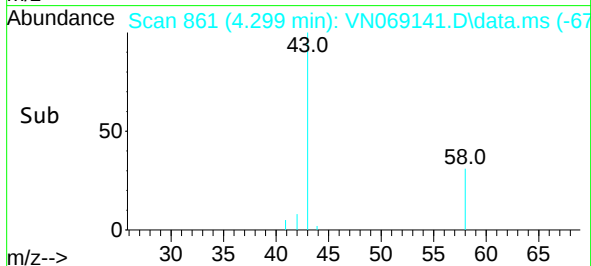
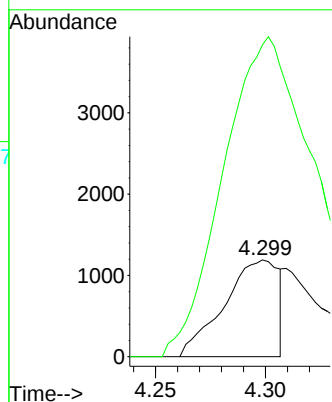
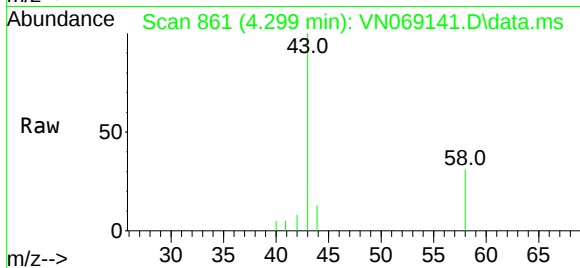
ClientSampleId :

Tgt Ion: 58 Resp: 2063

Ion Ratio Lower Upper

58 100

43 296.8 256.6 384.8



#27

1,2-Dichloroethane-d4

Concen: 31.617 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN069141.D

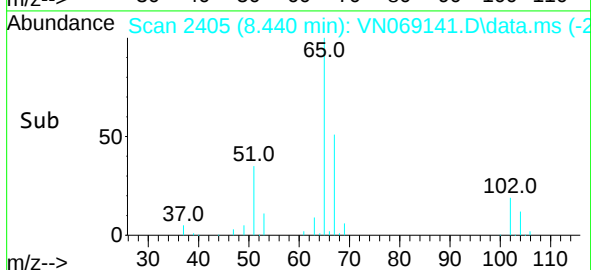
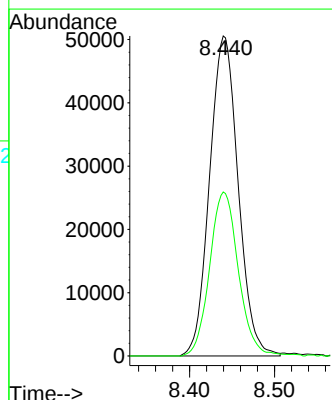
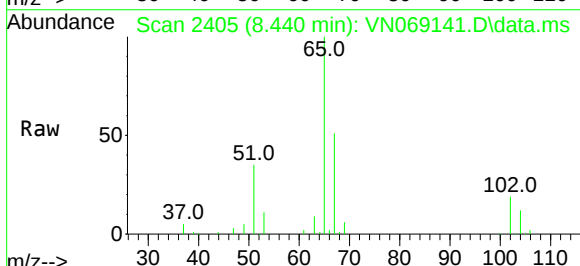
Acq: 22 Oct 2021 18:08

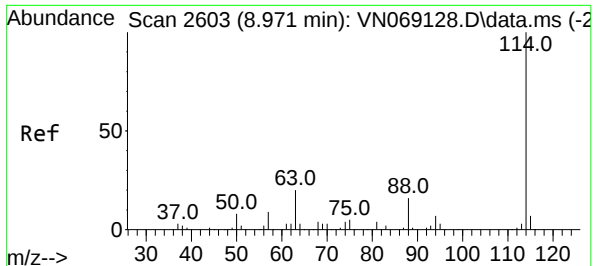
Tgt Ion: 65 Resp: 118216

Ion Ratio Lower Upper

65 100

67 51.5 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.971 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

Instrument :

MSVOA_N

ClientSampleId :

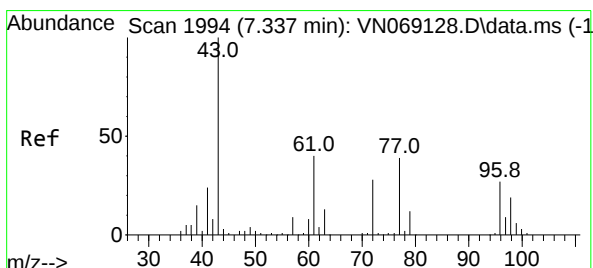
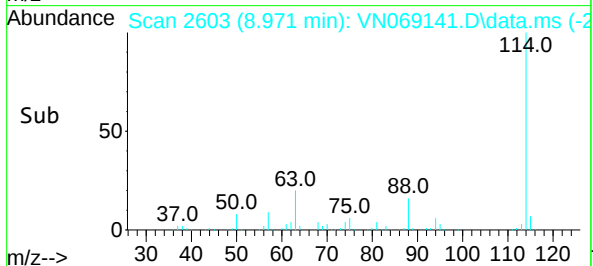
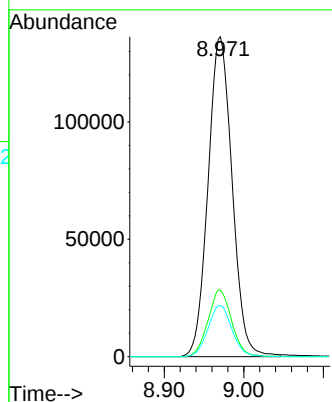
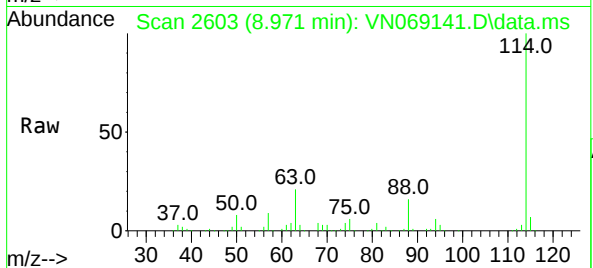
Tgt Ion:114 Resp: 287077

Ion Ratio Lower Upper

114 100

63 20.5 15.8 23.6

88 16.0 11.6 17.4



#30

2-Butanone

Concen: 0.338 ug/l

RT: 7.353 min Scan# 2000

Delta R.T. 0.016 min

Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

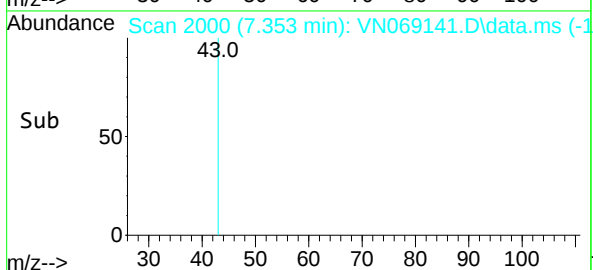
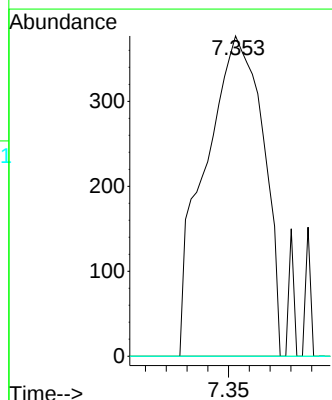
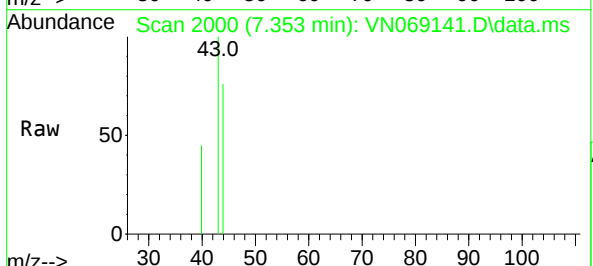
Tgt Ion: 43 Resp: 733

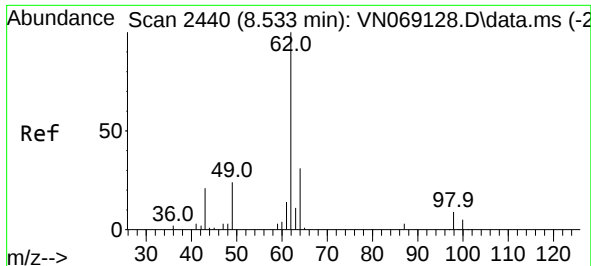
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 23.2 34.8#

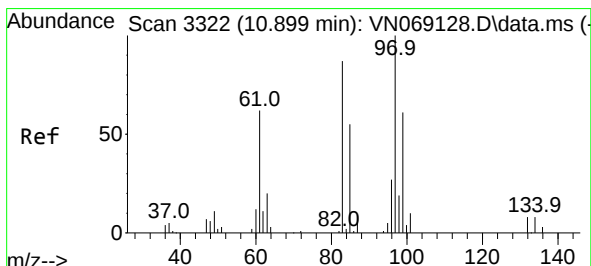
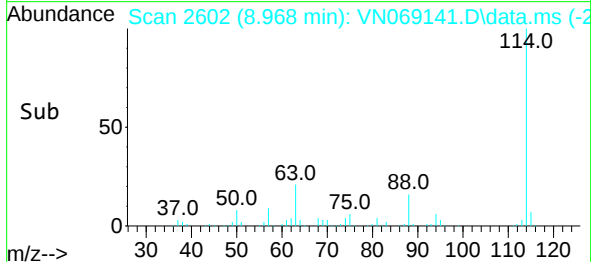
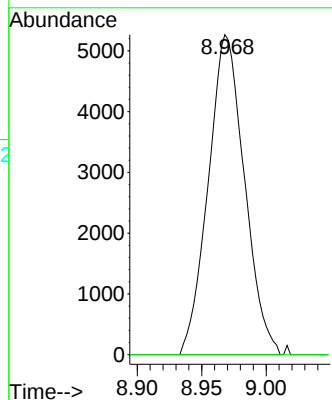
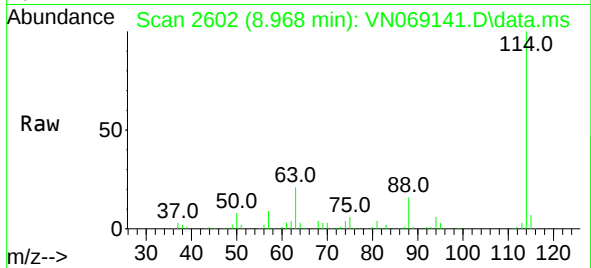




#36
 1,2-Dichloroethane
 Concen: 2.111 ug/l
 RT: 8.968 min Scan# 2
 Delta R.T. 0.435 min
 Lab File: VN069141.D
 Acq: 22 Oct 2021 18:08

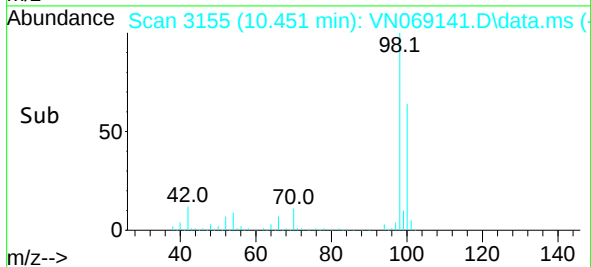
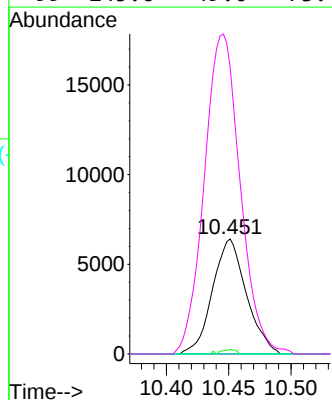
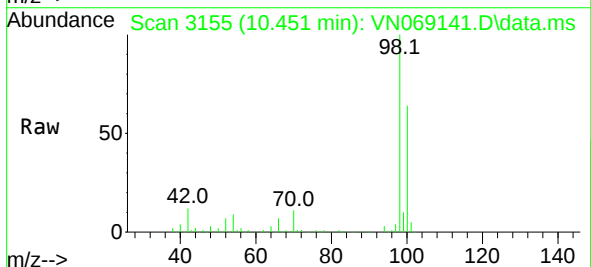
Instrument :
 MSVOA_N
 ClientSampleId :

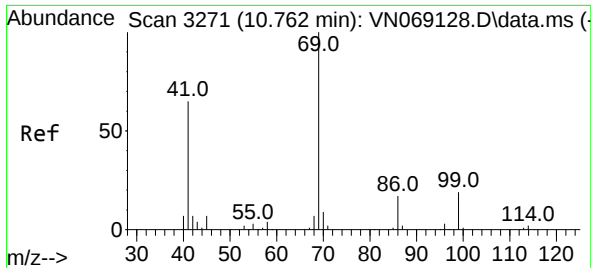
Tgt Ion: 62 Resp: 10277
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#50
 1,1,2-Trichloroethane
 Concen: 3.520 ug/l
 RT: 10.451 min Scan# 3155
 Delta R.T. -0.448 min
 Lab File: VN069141.D
 Acq: 22 Oct 2021 18:08

Tgt Ion: 97 Resp: 12151
 Ion Ratio Lower Upper
 97 100
 83 3.7 67.2 100.8#
 85 0.0 43.0 64.4#
 99 245.6 49.0 73.4#

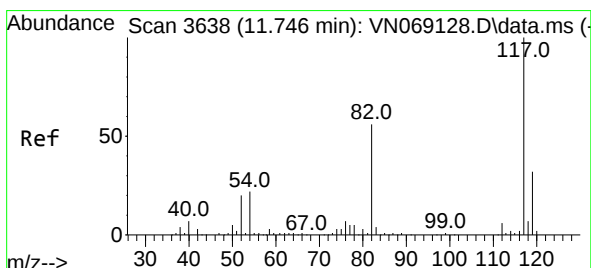
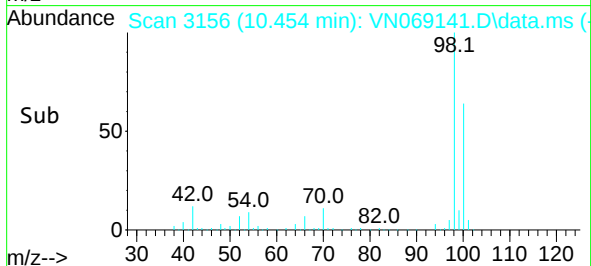
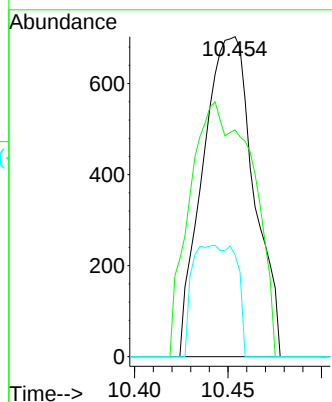
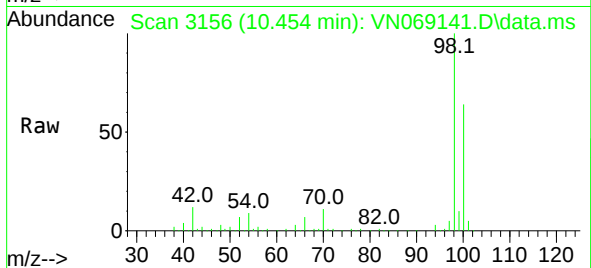




#51
Ethyl methacrylate
Concen: 0.234 ug/l
RT: 10.454 min Scan# 3156
Delta R.T. -0.308 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

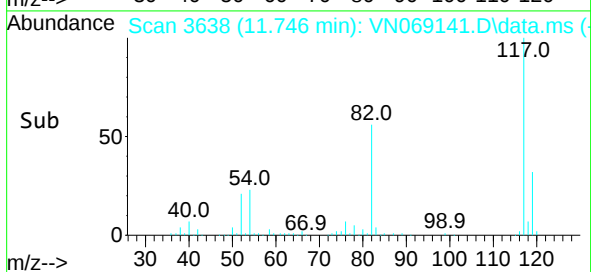
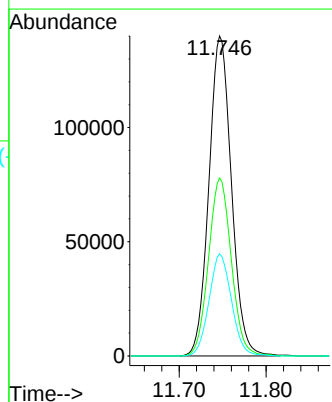
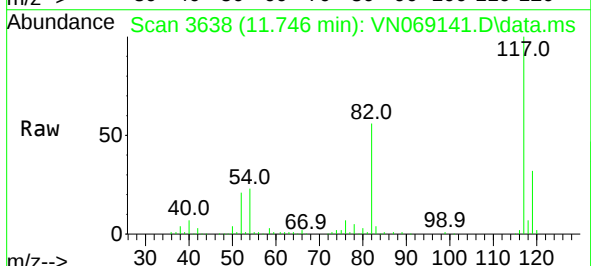
Instrument :
MSVOA_N
ClientSampleId :

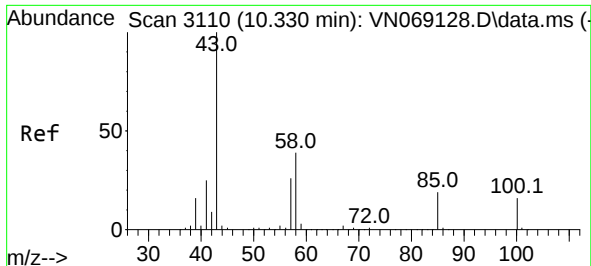
Tgt Ion: 69 Resp: 1334
Ion Ratio Lower Upper
69 100
41 70.8 33.0 98.9
39 31.9 25.4 76.4



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

Tgt Ion: 117 Resp: 252188
Ion Ratio Lower Upper
117 100
82 56.4 43.6 65.4
119 31.8 25.8 38.6

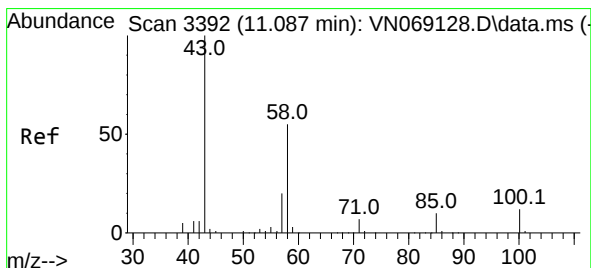
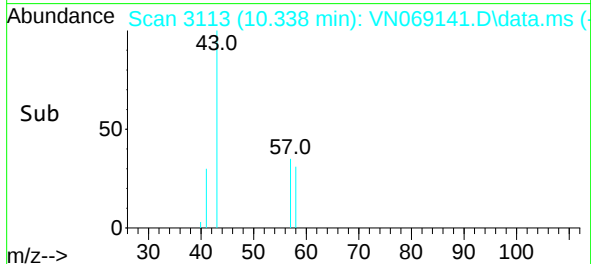
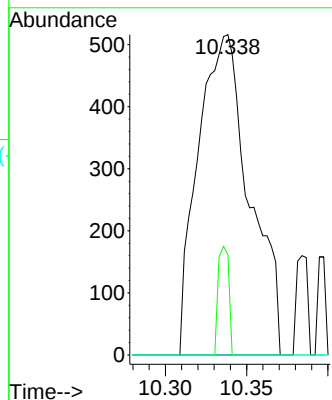
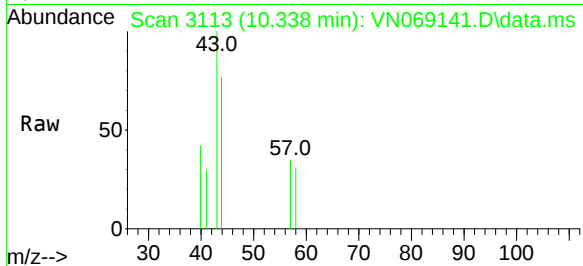




#58
4-Methyl-2-Pentanone
Concen: 0.268 ug/l
RT: 10.338 min Scan# 3110
Delta R.T. 0.008 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

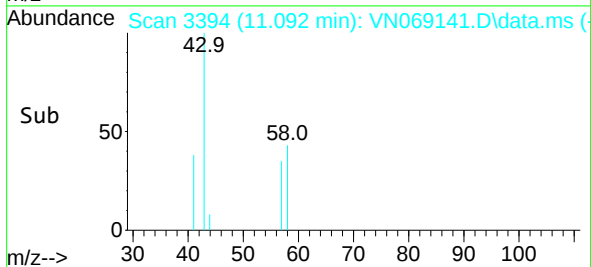
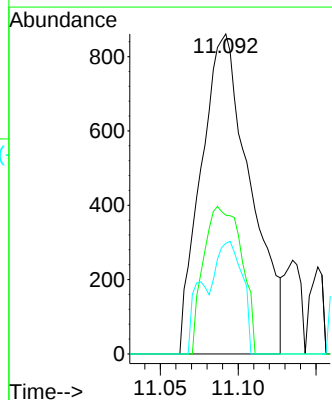
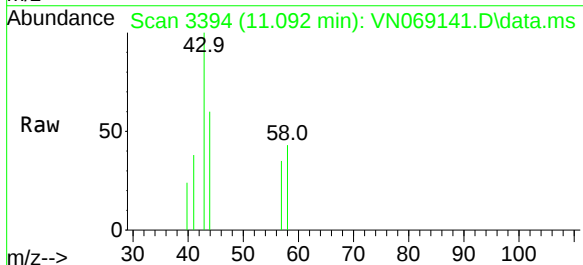
Instrument :
MSVOA_N
ClientSampleId :

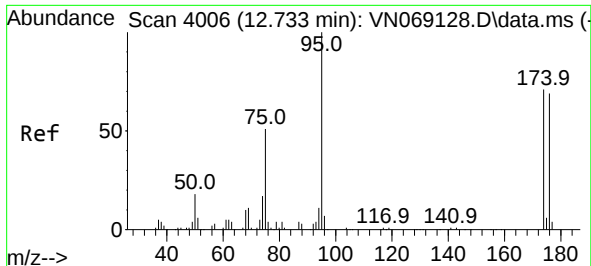
Tgt Ion: 43 Resp: 1140
Ion Ratio Lower Upper
43 100
58 7.0 30.0 45.0#
85 0.0 15.0 22.6#



#59
2-Hexanone
Concen: 0.589 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

Tgt Ion: 43 Resp: 1894
Ion Ratio Lower Upper
43 100
58 24.6 42.2 63.2#
57 19.1 15.0 22.4

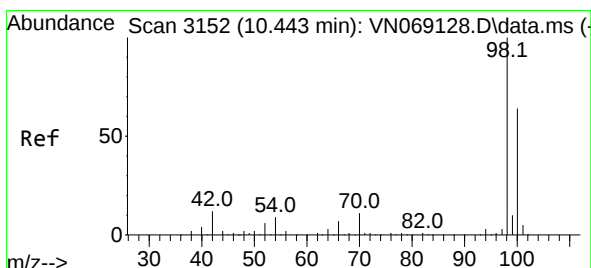
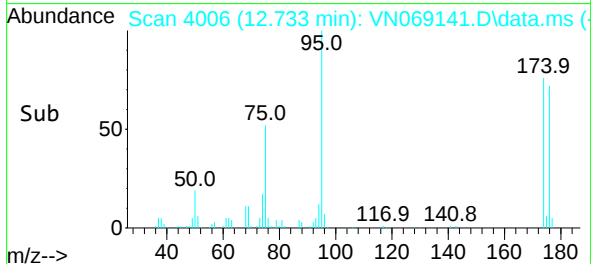
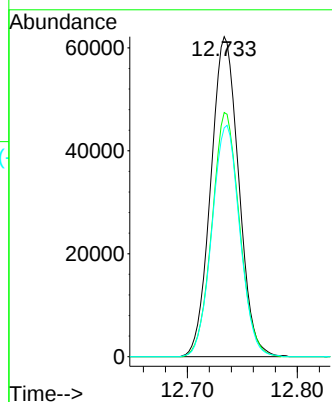
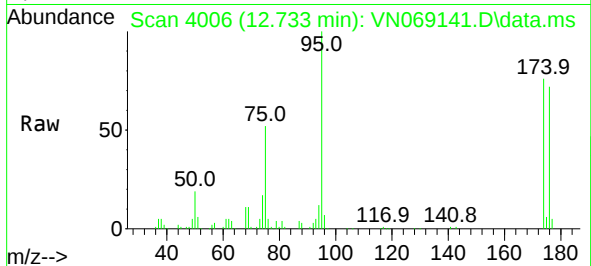




#60
4-Bromofluorobenzene
Concen: 25.374 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

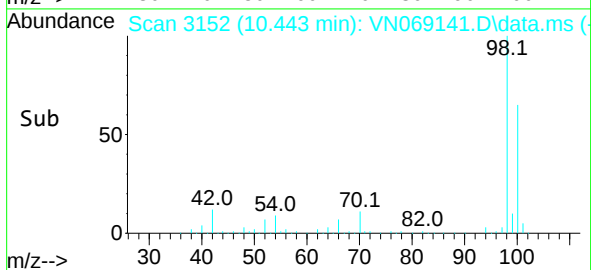
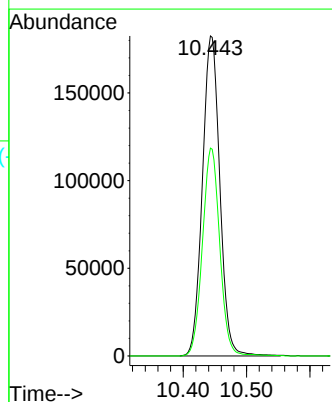
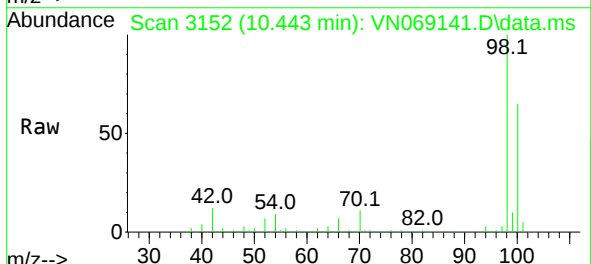
Instrument :
MSVOA_N
ClientSampleId :

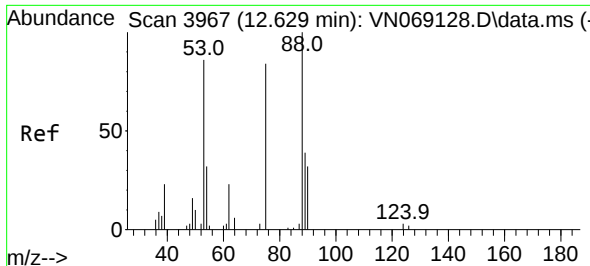
Tgt Ion: 95 Resp: 109724
Ion Ratio Lower Upper
95 100
174 75.3 62.9 94.3
176 72.4 61.0 91.4



#63
Toluene-d8
Concen: 30.649 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

Tgt Ion: 98 Resp: 349211
Ion Ratio Lower Upper
98 100
100 64.0 50.6 76.0

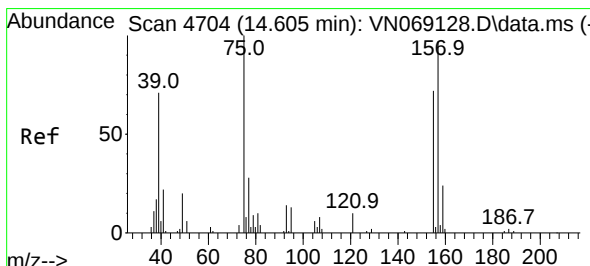
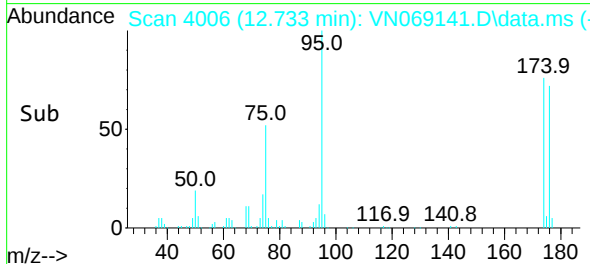
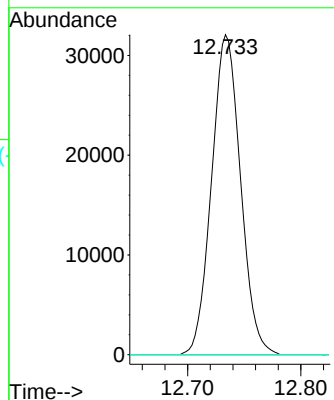
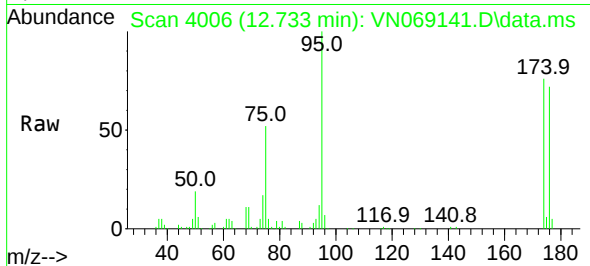




#77
t-1,4-Dichloro-2-butene
Concen: 35.448 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

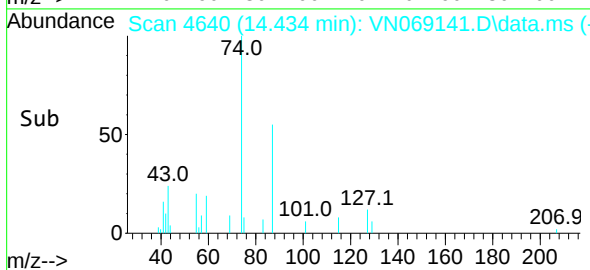
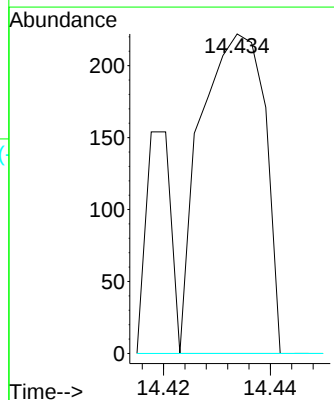
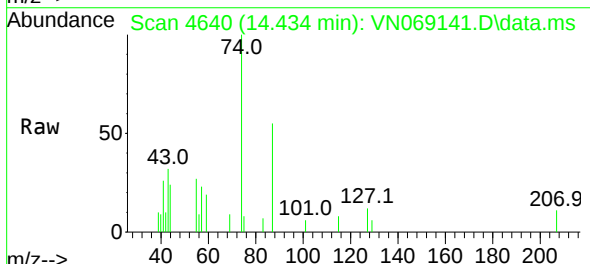
Instrument :
MSVOA_N
ClientSampleId :

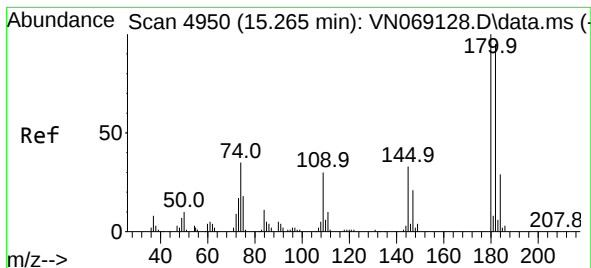
Tgt Ion: 75 Resp: 56920
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.208 ug/l
RT: 14.434 min Scan# 4640
Delta R.T. -0.172 min
Lab File: VN069141.D
Acq: 22 Oct 2021 18:08

Tgt Ion: 75 Resp: 185
Ion Ratio Lower Upper
75 100
155 0.0 63.8 95.8#
157 0.0 77.9 116.9#





#89

1,2,4-Trichlorobenzene

Concen: 0.359 ug/l

RT: 15.268 min Scan# 4950

Delta R.T. 0.003 min

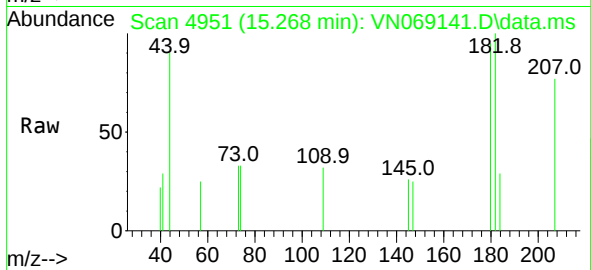
Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

Instrument :

MSVOA_N

ClientSampleId :



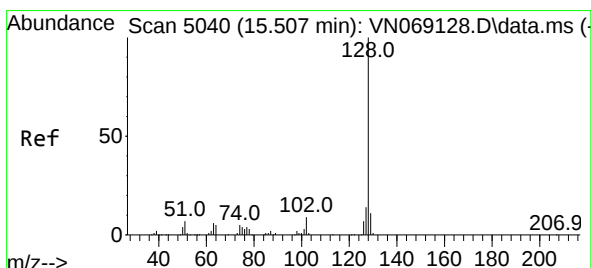
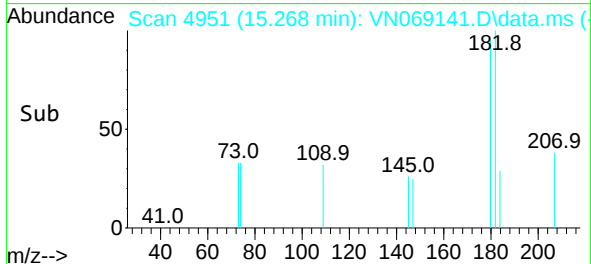
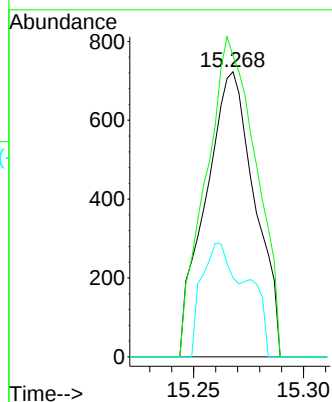
Tgt Ion:180 Resp: 1124

Ion Ratio Lower Upper

180 100

182 114.8 77.7 116.5

145 26.2 26.6 39.8#



#91

Naphthalene

Concen: 0.746 ug/l

RT: 15.507 min Scan# 5040

Delta R.T. 0.000 min

Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

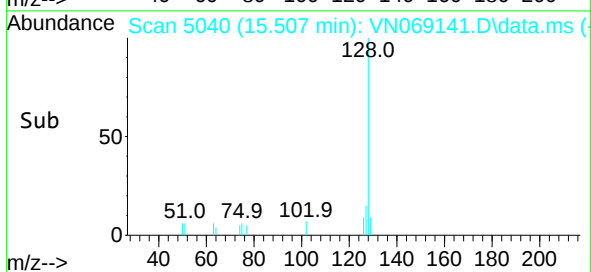
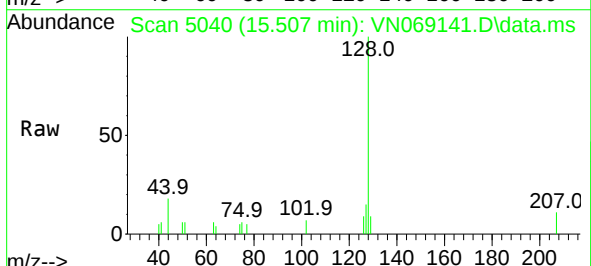
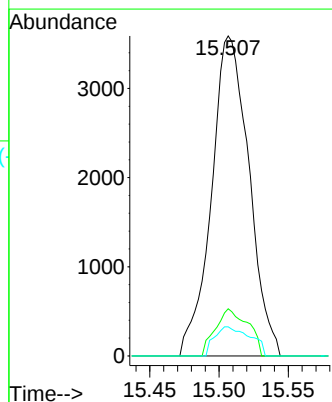
Tgt Ion:128 Resp: 6764

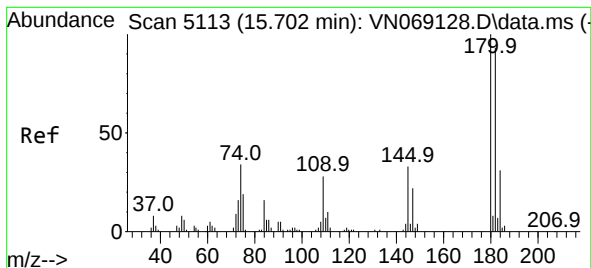
Ion Ratio Lower Upper

128 100

127 12.8 10.7 16.1

129 8.7 9.0 13.6#





#92

1,2,3-Trichlorobenzene

Concen: 0.507 ug/l

RT: 15.702 min Scan# 51

Delta R.T. 0.000 min

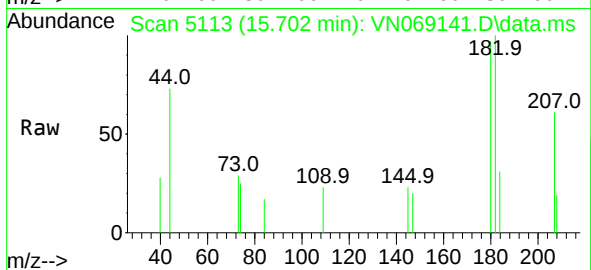
Lab File: VN069141.D

Acq: 22 Oct 2021 18:08

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1519

Ion Ratio Lower Upper

180 100

182 104.6 0.0 190.0

145 8.2 0.0 67.8

