

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111021\
 Data File : VN069444.D
 Acq On : 10 Nov 2021 16:16
 Operator : JC/MD
 Sample : M4478-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP02

Quant Time: Nov 10 18:04:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

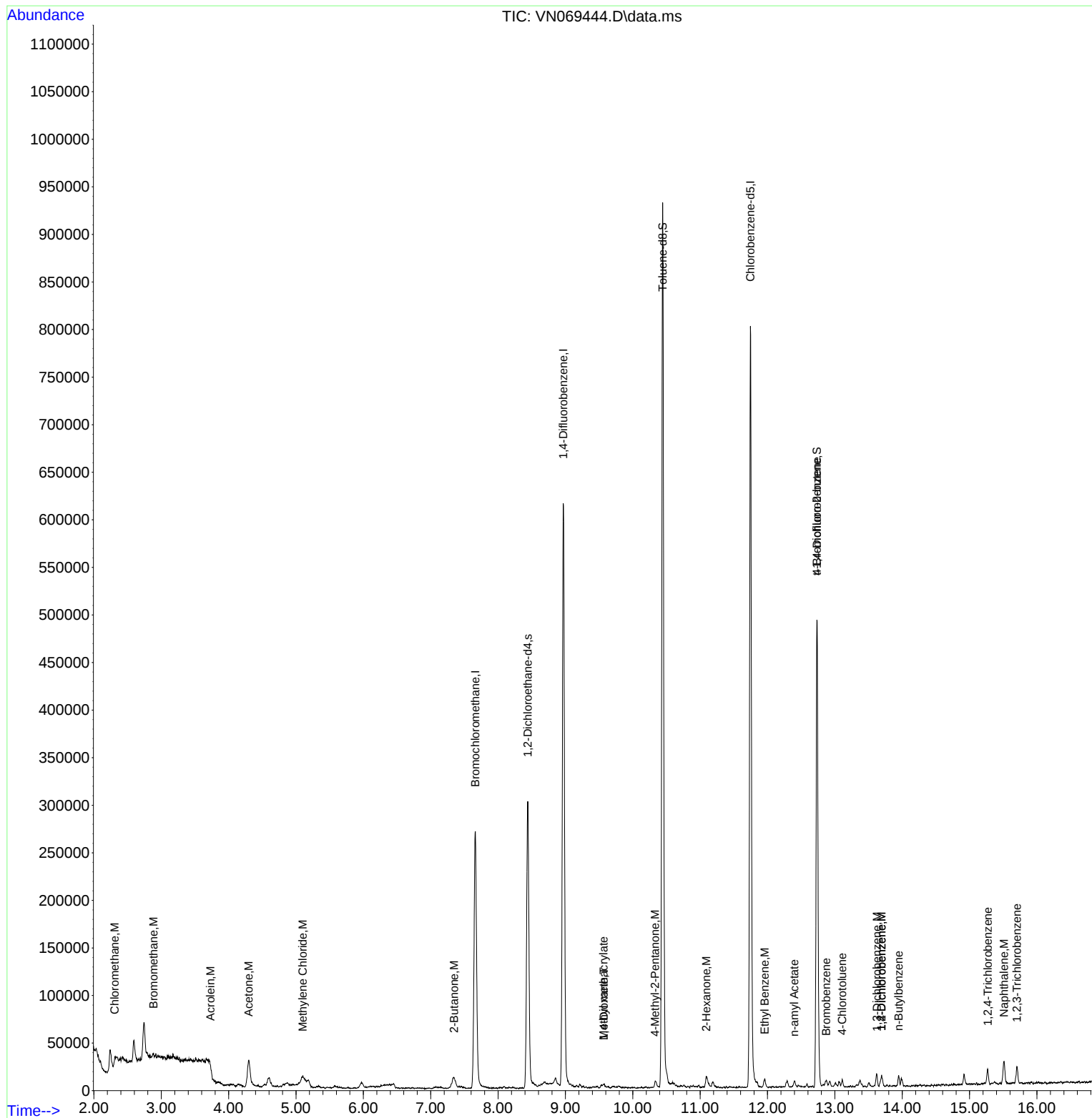
Internal Standards						
1) Bromochloromethane	7.662	128	92275	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	534407	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	451262	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	259618	32.441	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.133%			
60) 4-Bromofluorobenzene	12.733	95	177989	24.647	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 82.167%			
63) Toluene-d8	10.443	98	645315	30.971	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.233%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	2657	0.374	ug/l #	84
5) Bromomethane	2.885	94	2090	0.453	ug/l	100
13) Acrolein	3.730	56	318	0.871	ug/l	99
15) Acetone	4.296	58	13619	11.281	ug/l	93
18) Methylene Chloride	5.098	84	1271	0.216	ug/l #	69
30) 2-Butanone	7.345	43	9461	1.602	ug/l #	61
45) 1,4-Dioxane	9.569	88	245	1.769	ug/l	92
46) Methyl methacrylate	9.563	41	1582	0.201	ug/l #	48
47) n-amyl Acetate	12.398	43	4923	0.376	ug/l	96
58) 4-Methyl-2-Pentanone	10.330	43	2398	0.242	ug/l #	50
59) 2-Hexanone	11.092	43	11255	1.494	ug/l	92
66) Ethyl Benzene	11.958	91	5574	0.203	ug/l	91
73) Bromobenzene	12.870	156	1483	0.241	ug/l	42
77) t-1,4-Dichloro-2-butene	12.733	75	102376	44.197	ug/l #	8
78) 4-Chlorotoluene	13.109	91	4087	0.229	ug/l	91
83) 1,3-Dichlorobenzene	13.627	146	3697	0.351	ug/l	73
84) 1,4-Dichlorobenzene	13.694	146	3876	0.380	ug/l	86
85) n-Butylbenzene	13.946	91	6356	0.354	ug/l	94
87) 1,2-Dichlorobenzene	13.694	146	3876	0.382	ug/l	86
89) 1,2,4-Trichlorobenzene	15.271	180	5129	1.053	ug/l #	81
91) Naphthalene	15.512	128	22093	1.575	ug/l #	86
92) 1,2,3-Trichlorobenzene	15.702	180	5794	1.211	ug/l	93

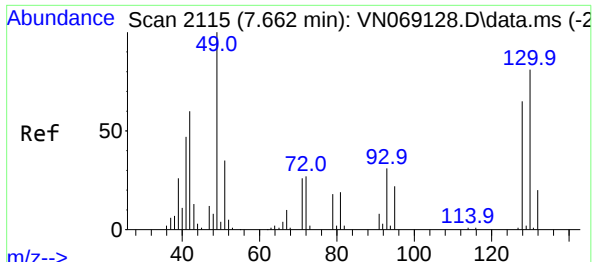
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 10 18:04:54 2021
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Nov 10 14:36:17 2021
Response via : Initial Calibration

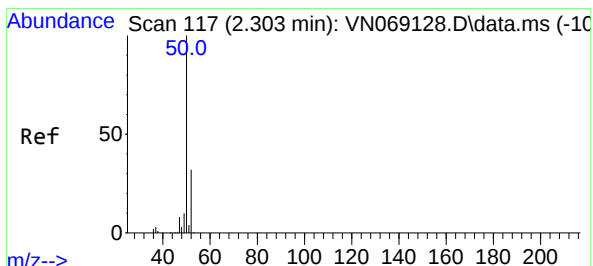
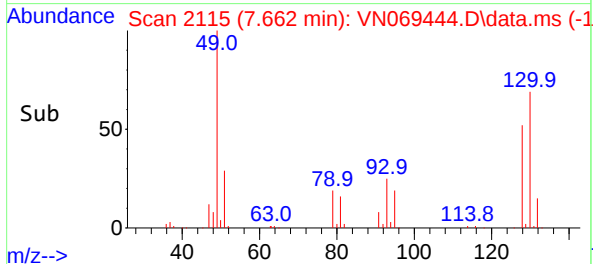
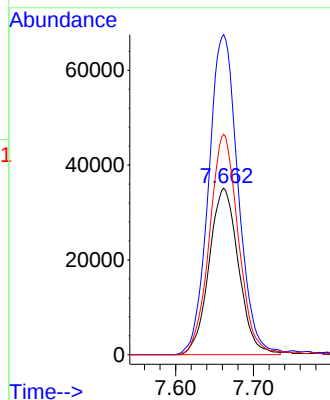
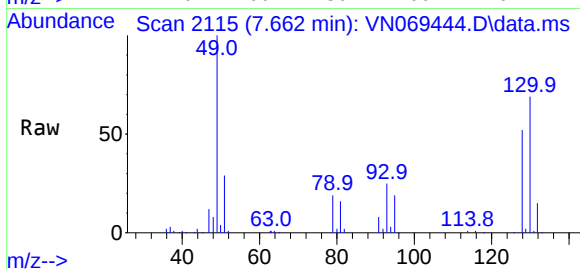




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

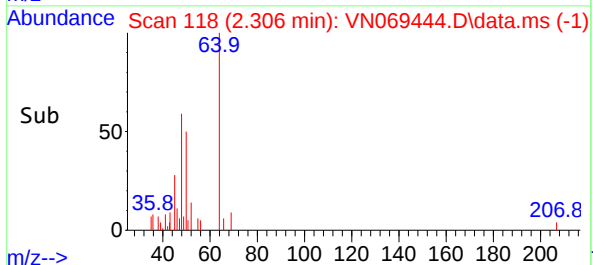
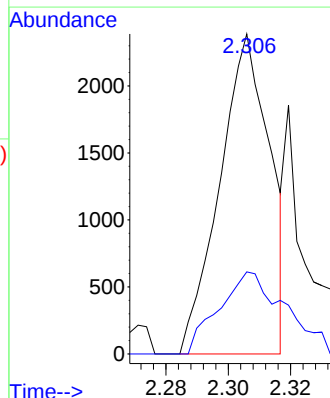
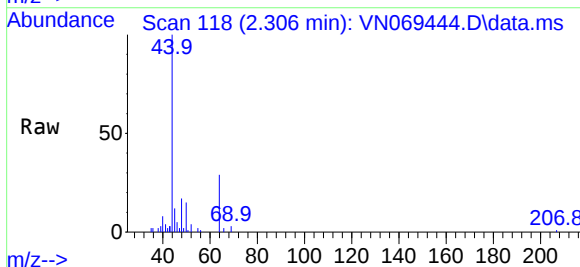
Instrument :
MSVOA_N
ClientSampleId :
TWP02

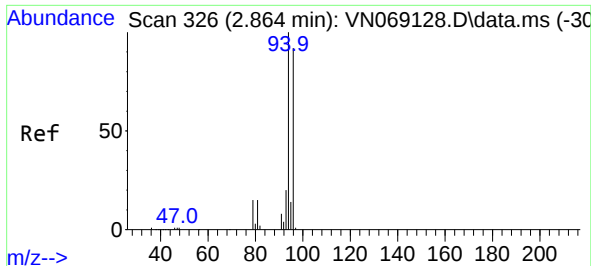
Tgt Ion:	128	Resp:	92275
Ion	Ratio	Lower	Upper
128	100		
49	192.7	0.0	392.3
130	129.3	0.0	320.2



#3
Chloromethane
Concen: 0.374 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion:	50	Resp:	2657
Ion	Ratio	Lower	Upper
50	100		
52	25.6	27.8	41.6#

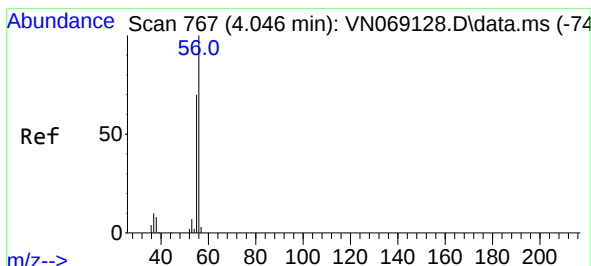
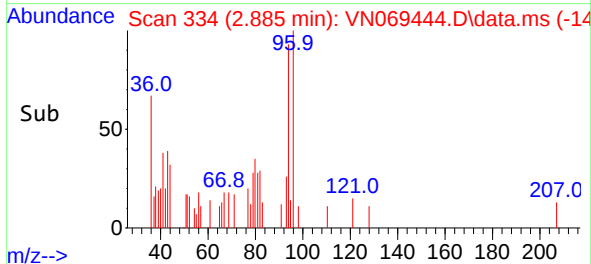
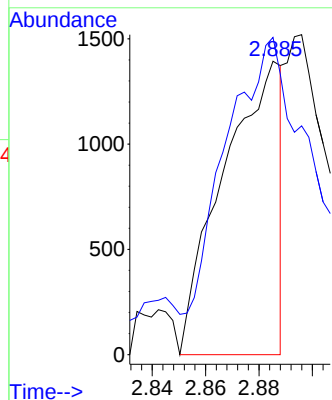
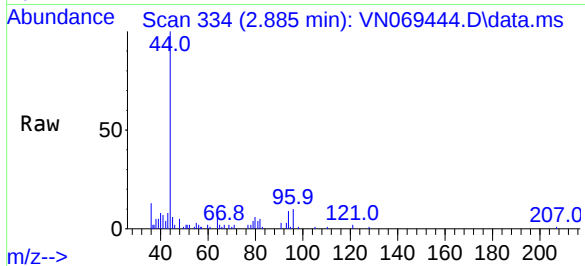




#5
Bromomethane
Concen: 0.453 ug/l
RT: 2.885 min Scan# 31
Delta R.T. 0.022 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

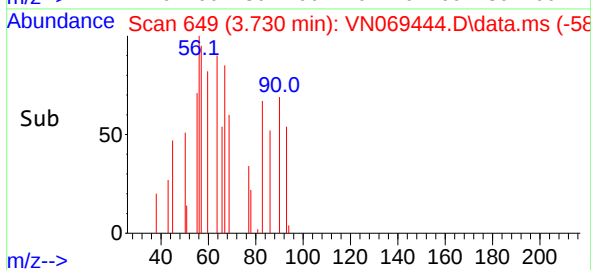
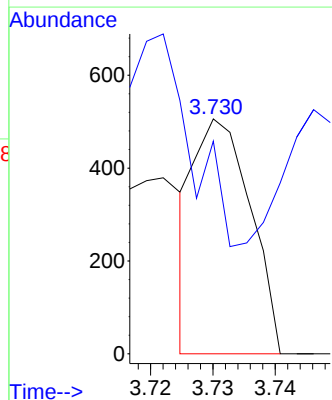
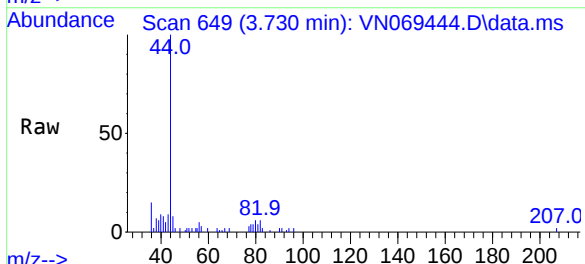
Instrument :
MSVOA_N
ClientSampleId :
TWP02

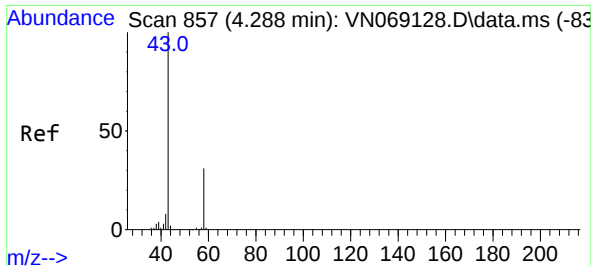
Tgt Ion: 94 Resp: 2090
Ion Ratio Lower Upper
94 100
96 94.4 75.2 112.8



#13
Acrolein
Concen: 0.871 ug/l
RT: 3.730 min Scan# 649
Delta R.T. -0.316 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 56 Resp: 318
Ion Ratio Lower Upper
56 100
55 70.8 57.6 86.4





#15

Acetone

Concen: 11.281 ug/l

RT: 4.296 min Scan# 80

Delta R.T. 0.008 min

Lab File: VN069444.D

Acq: 10 Nov 2021 16:16

Instrument :

MSVOA_N

ClientSampleId :

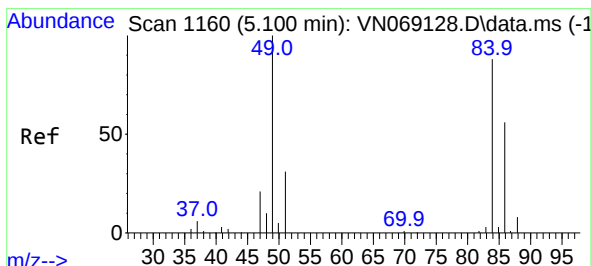
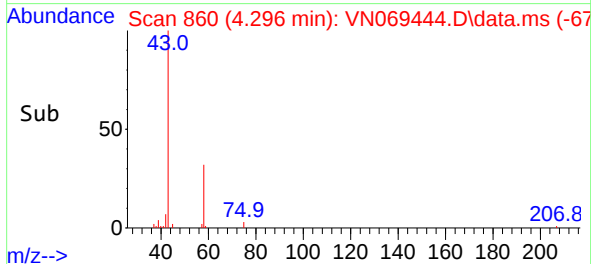
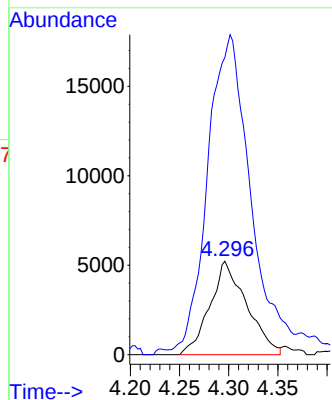
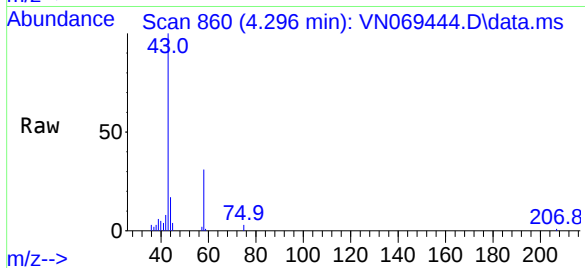
TWP02

Tgt Ion: 58 Resp: 13619

Ion Ratio Lower Upper

58 100

43 305.6 256.6 384.8



#18

Methylene Chloride

Concen: 0.216 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. -0.003 min

Lab File: VN069444.D

Acq: 10 Nov 2021 16:16

Tgt Ion: 84 Resp: 1271

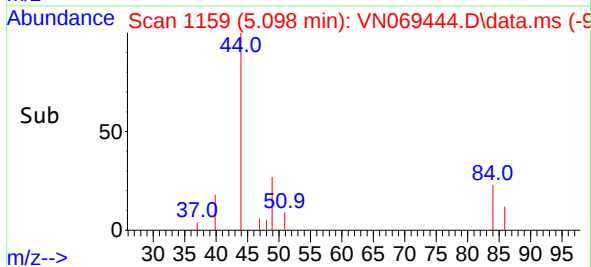
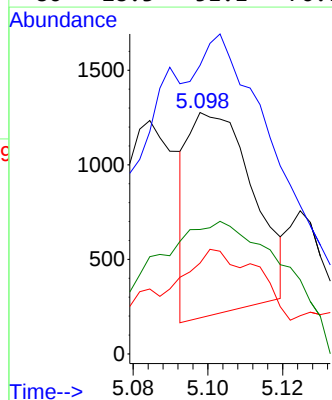
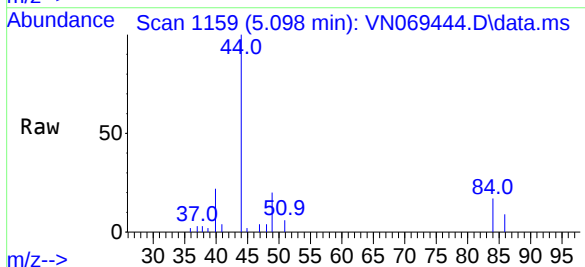
Ion Ratio Lower Upper

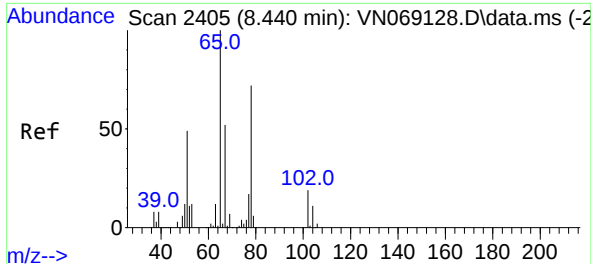
84 100

49 80.7 91.4 137.0#

51 35.0 29.4 44.0

86 28.3 51.1 76.7#

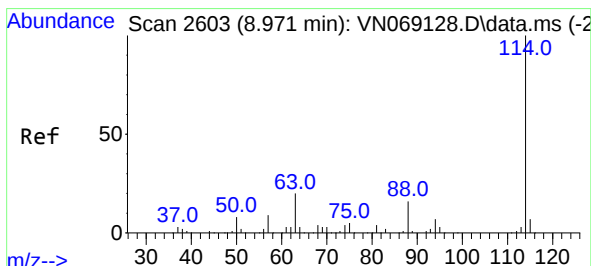
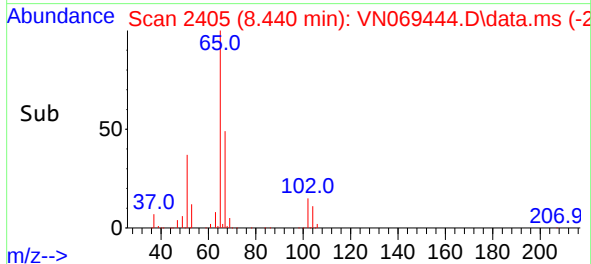
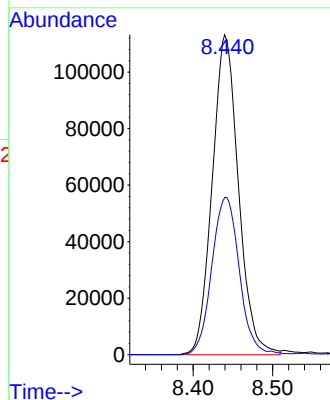
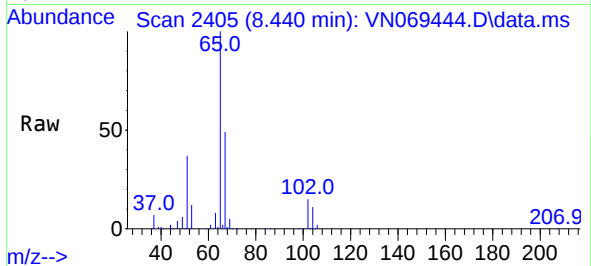




#27
1,2-Dichloroethane-d4
Concen: 32.441 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

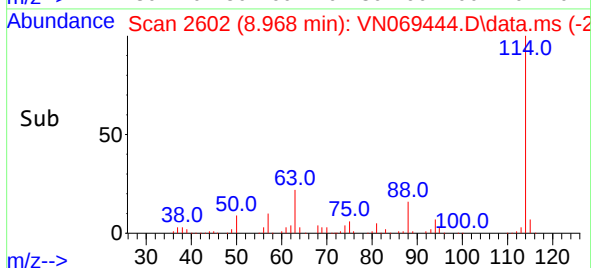
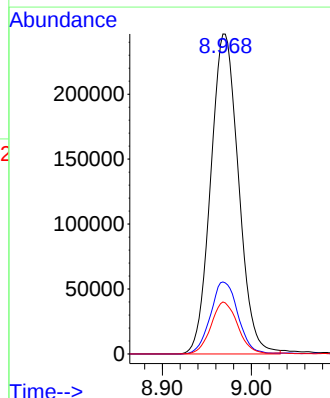
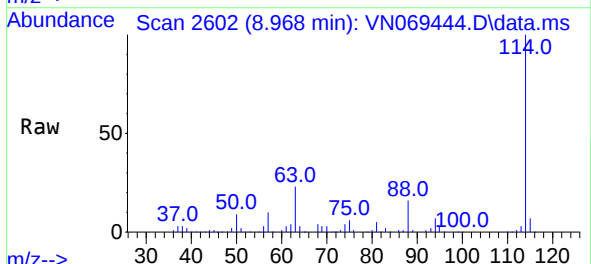
Instrument :
MSVOA_N
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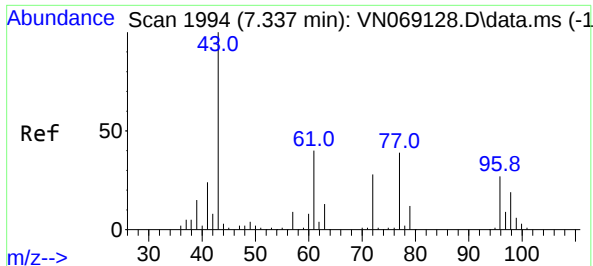
Tgt Ion: 65 Resp: 259618
Ion Ratio Lower Upper
65 100
67 51.2 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 114 Resp: 534407
Ion Ratio Lower Upper
114 100
63 22.4 15.8 23.6
88 15.4 11.6 17.4

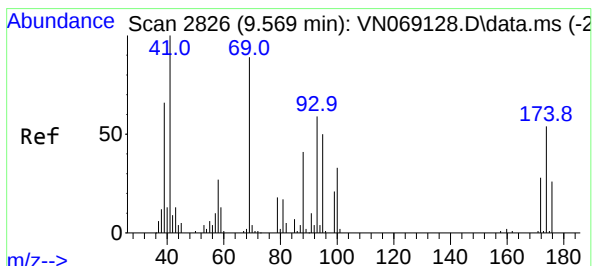
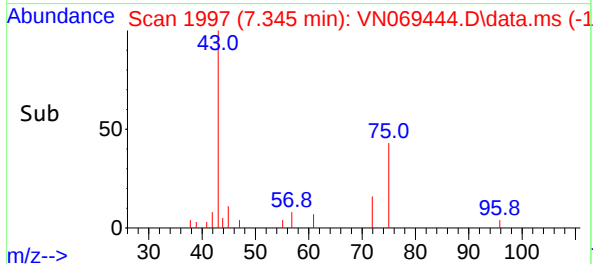
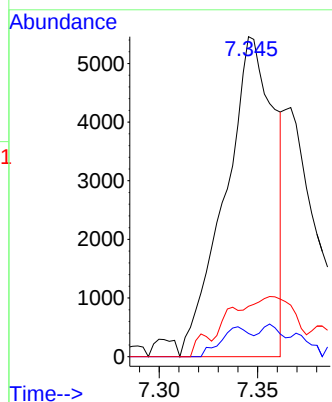
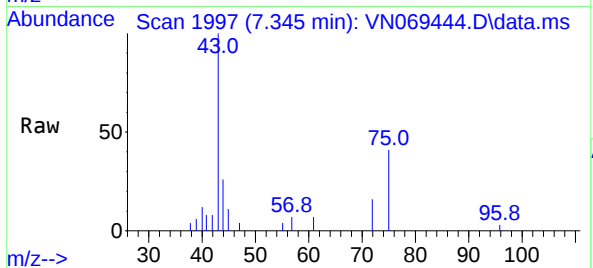




#30
2-Butanone
Concen: 1.602 ug/l
RT: 7.345 min Scan# 1994
Delta R.T. 0.008 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

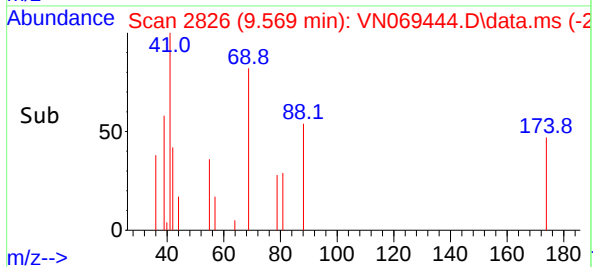
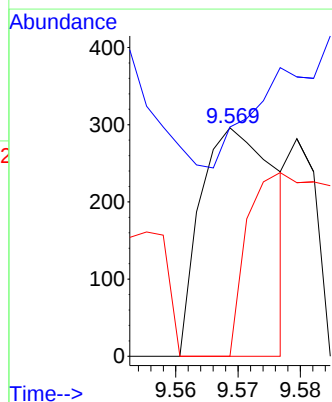
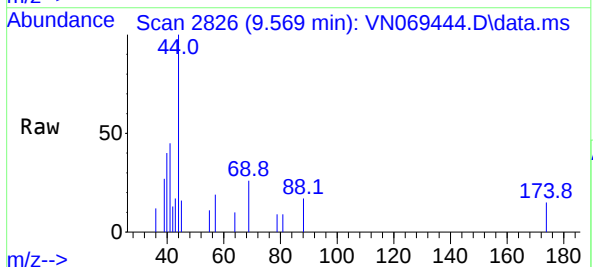
Instrument :
MSVOA_N
ClientSampleId :
TWP02

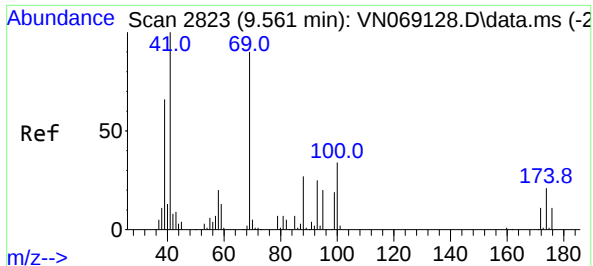
Tgt Ion: 43 Resp: 9461
Ion Ratio Lower Upper
43 100
57 5.2 6.7 10.1#
72 3.6 23.2 34.8#



#45
1,4-Dioxane
Concen: 1.769 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 88 Resp: 245
Ion Ratio Lower Upper
88 100
43 37.1 25.0 37.6
58 57.1 49.4 74.2

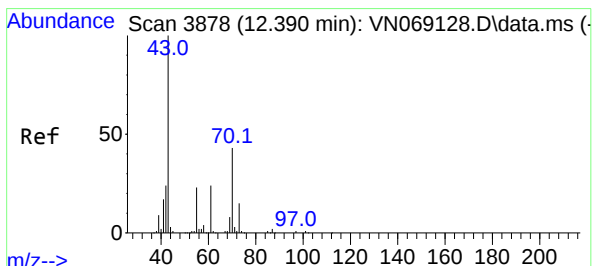
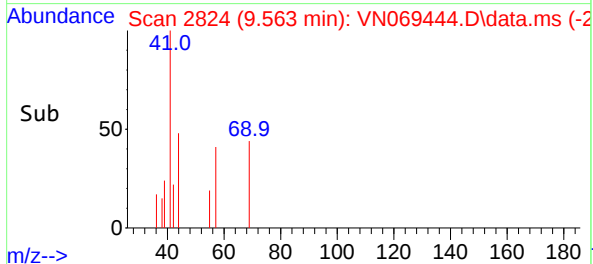
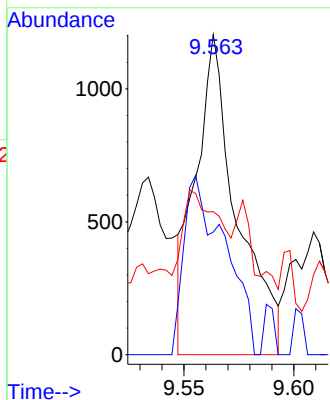
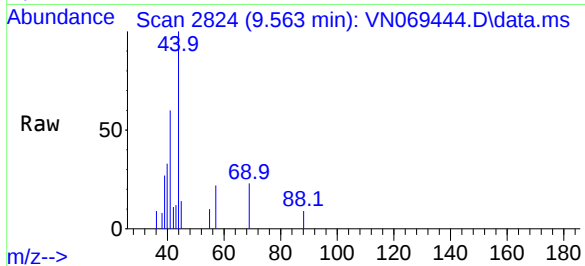




#46
Methyl methacrylate
Concen: 0.201 ug/l
RT: 9.563 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

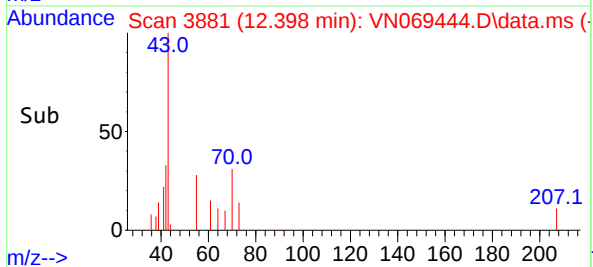
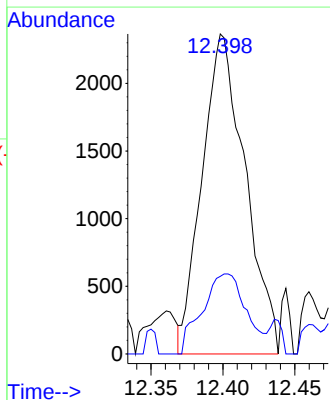
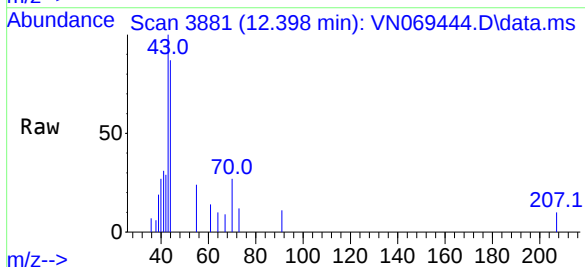
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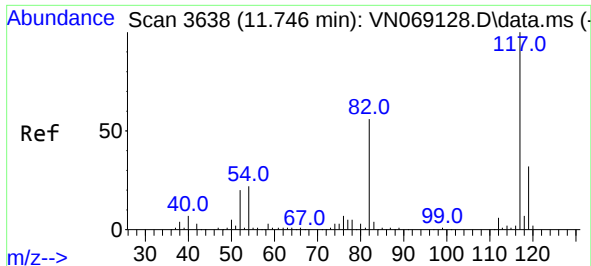
Tgt Ion: 41 Resp: 1582
Ion Ratio Lower Upper
41 100
69 45.2 44.4 133.2
39 28.6 39.9 119.6#



#47
n-amy1 Acetate
Concen: 0.376 ug/l
RT: 12.398 min Scan# 3881
Delta R.T. 0.008 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 43 Resp: 4923
Ion Ratio Lower Upper
43 100
55 25.8 19.0 28.6

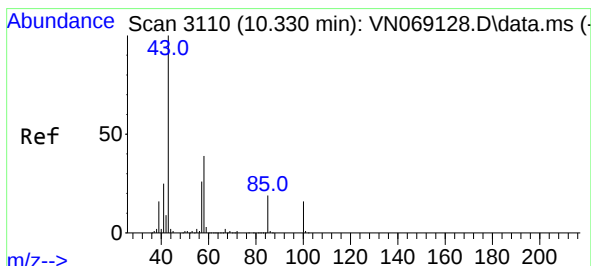
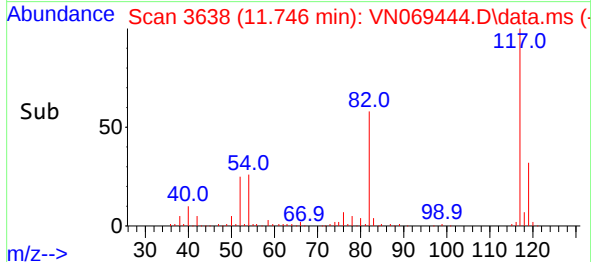
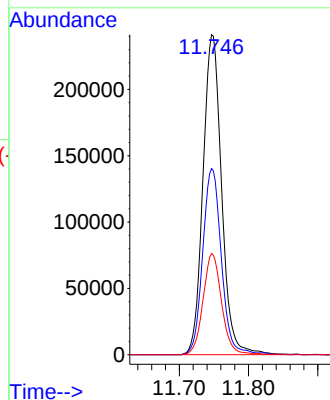
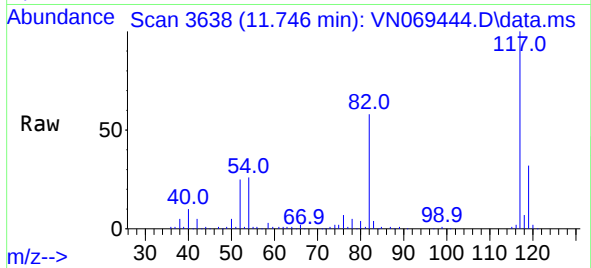




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

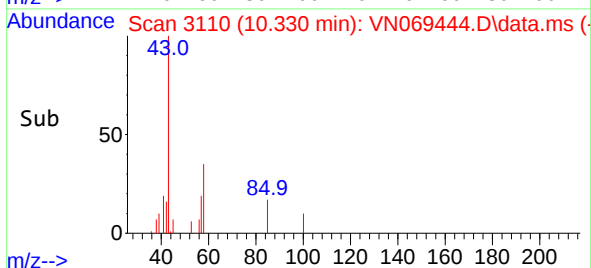
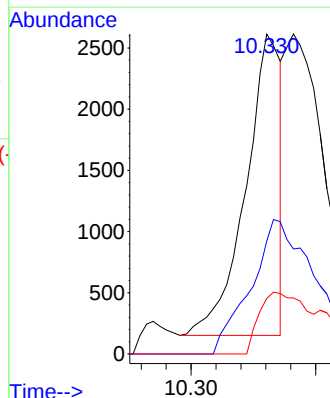
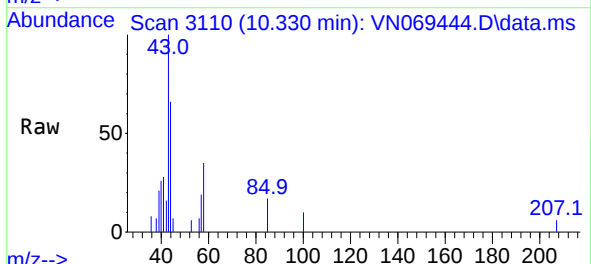
Instrument :
MSVOA_N
ClientSampleId :
TWP02

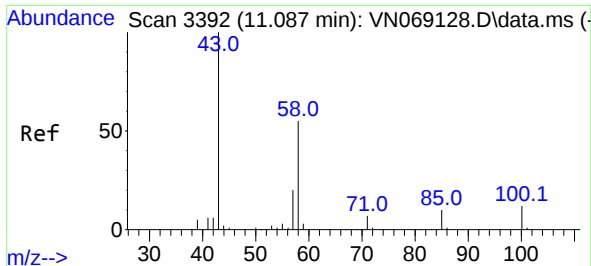
Tgt Ion:117 Resp: 451262
Ion Ratio Lower Upper
117 100
82 58.0 43.6 65.4
119 31.3 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.242 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 43 Resp: 2398
Ion Ratio Lower Upper
43 100
58 77.1 30.0 45.0#
85 27.1 15.0 22.6#

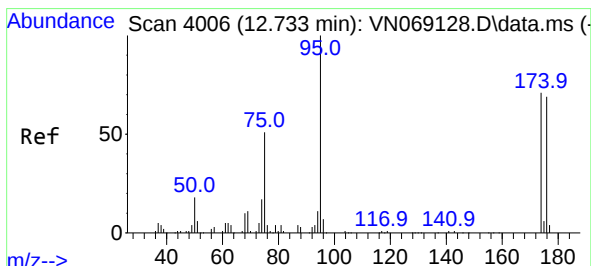
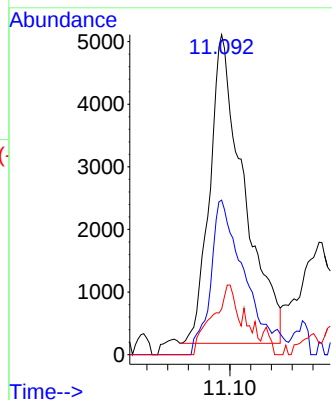
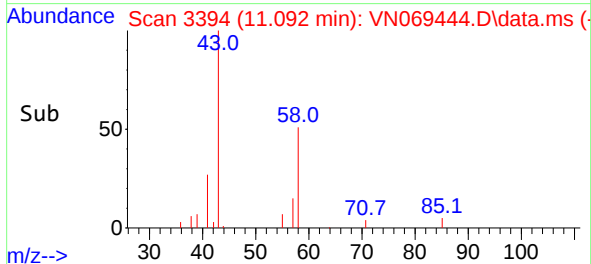
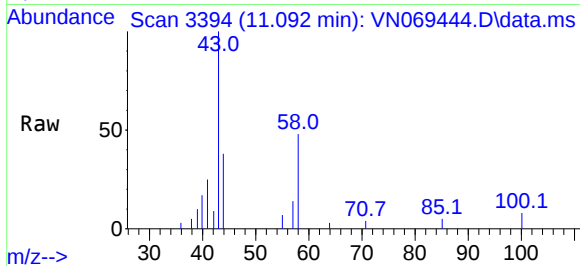




#59
2-Hexanone
Concen: 1.494 ug/l
RT: 11.092 min Scan# 311
Delta R.T. 0.005 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

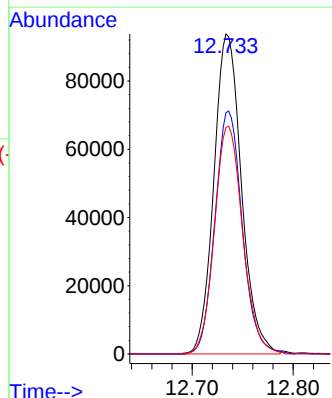
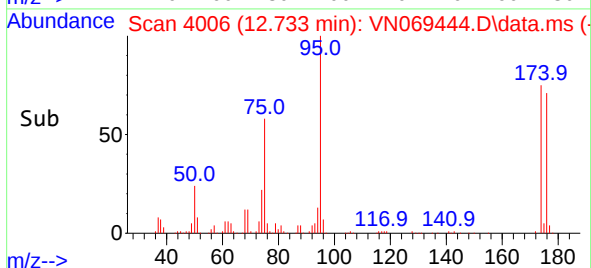
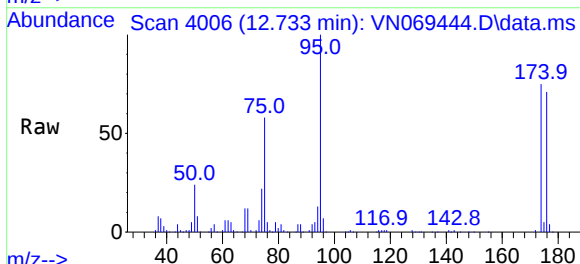
Instrument :
MSVOA_N
ClientSampleId :
TWP02

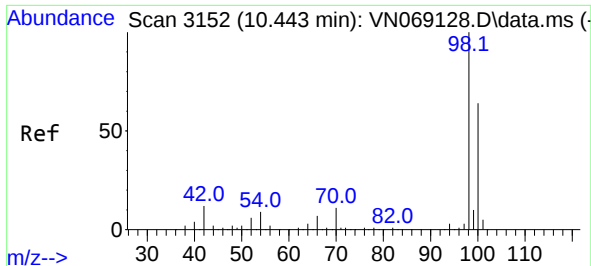
Tgt Ion: 43 Resp: 11255
Ion Ratio Lower Upper
43 100
58 46.3 42.2 63.2
57 16.1 15.0 22.4



#60
4-Bromofluorobenzene
Concen: 24.647 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 95 Resp: 177989
Ion Ratio Lower Upper
95 100
174 75.1 62.9 94.3
176 72.4 61.0 91.4

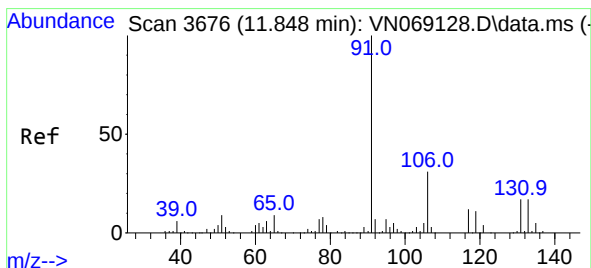
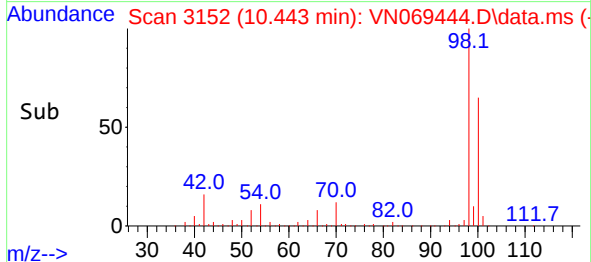
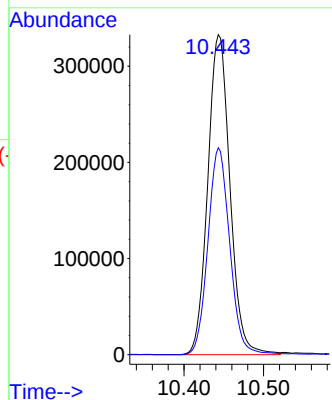
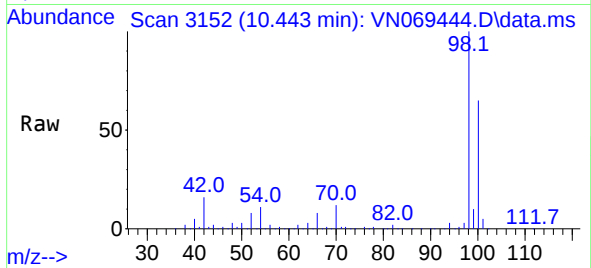




#63
Toluene-d8
Concen: 30.971 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

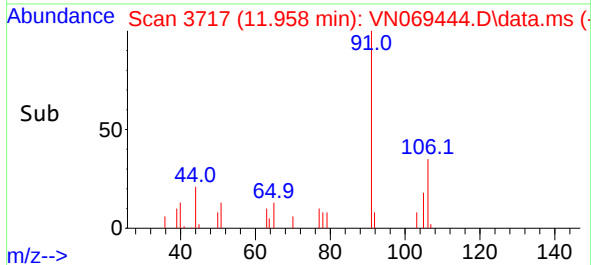
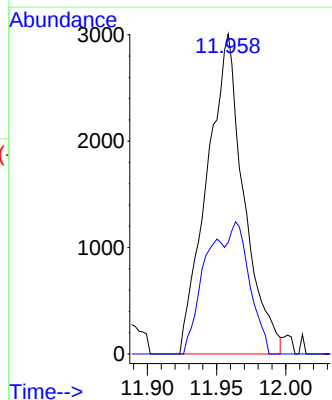
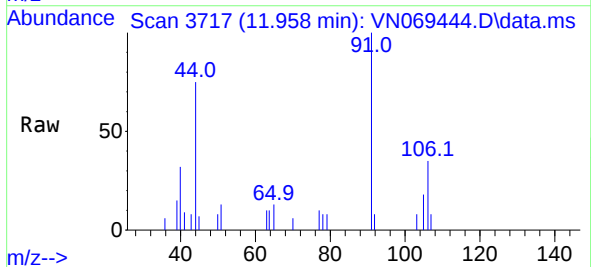
Instrument :
MSVOA_N
ClientSampleId :
TWP02

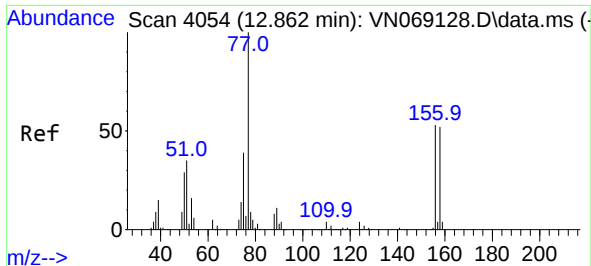
Tgt Ion: 98 Resp: 645315
Ion Ratio Lower Upper
98 100
100 63.6 50.6 76.0



#66
Ethyl Benzene
Concen: 0.203 ug/l
RT: 11.958 min Scan# 3717
Delta R.T. 0.110 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 91 Resp: 5574
Ion Ratio Lower Upper
91 100
106 34.8 24.0 36.0

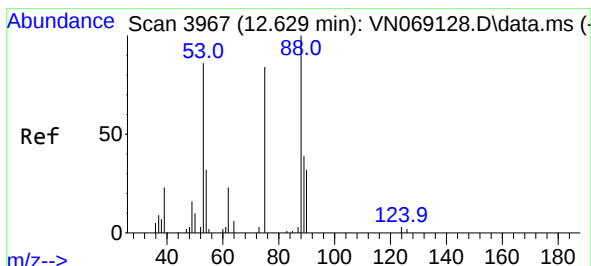
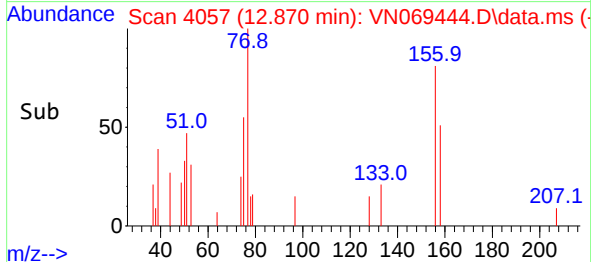
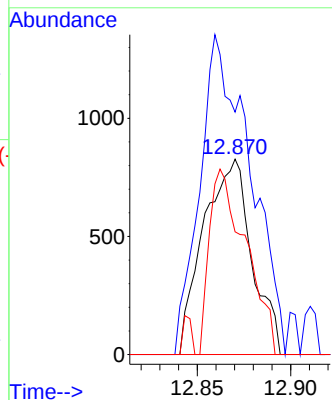
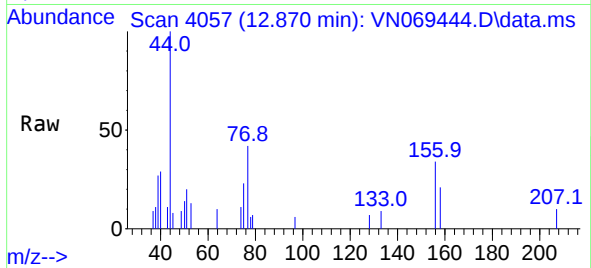




#73
Bromobenzene
Concen: 0.241 ug/l
RT: 12.870 min Scan# 4054
Delta R.T. 0.008 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

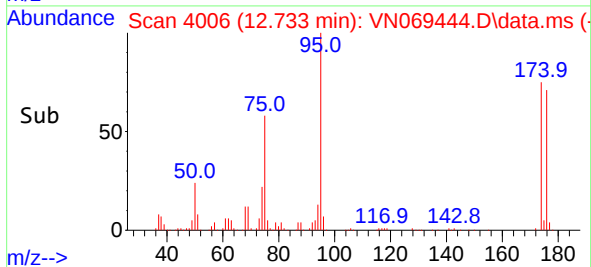
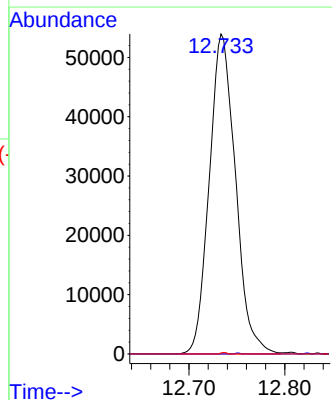
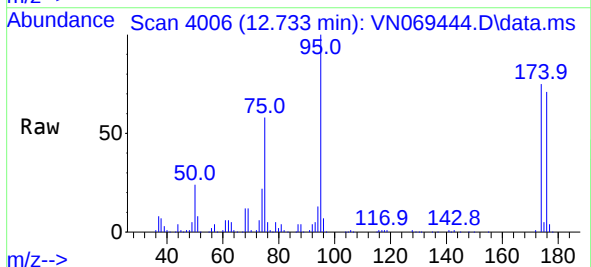
Instrument :
MSVOA_N
ClientSampleId :
TWP02

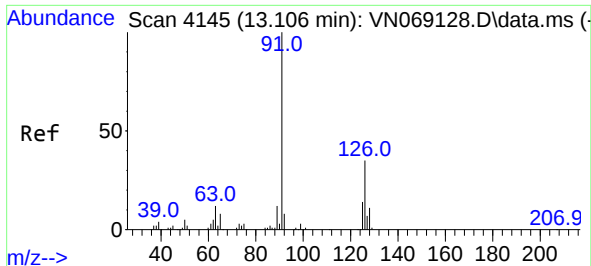
Tgt Ion:156 Resp: 1483
Ion Ratio Lower Upper
156 100
77 109.6 0.0 416.0
158 51.2 0.0 195.4



#77
t-1,4-Dichloro-2-butene
Concen: 44.197 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 75 Resp: 102376
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.4 22.9 68.7#

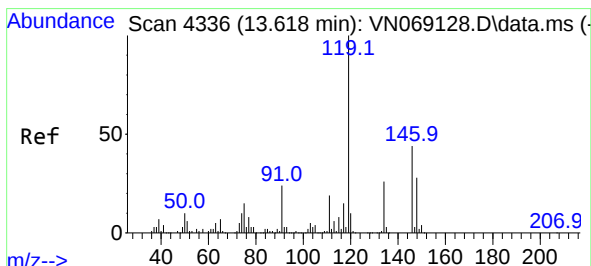
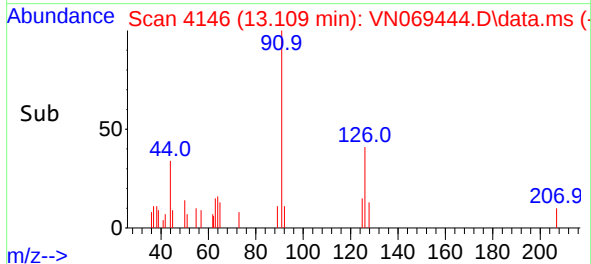
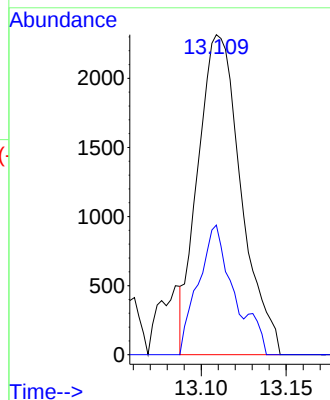
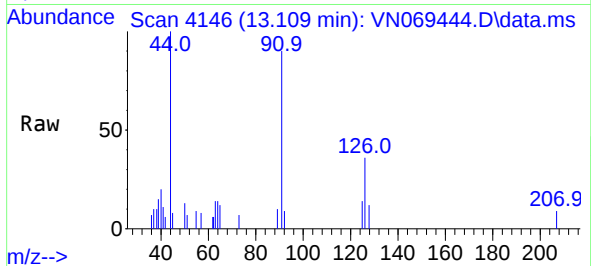




#78
4-Chlorotoluene
Concen: 0.229 ug/l
RT: 13.109 min Scan# 4145
Delta R.T. 0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

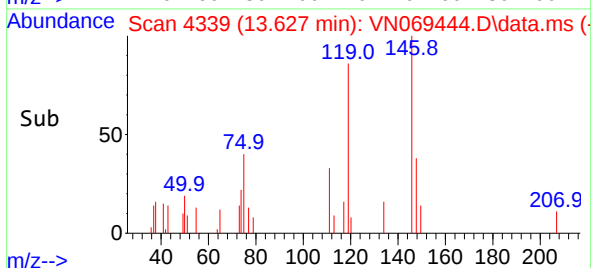
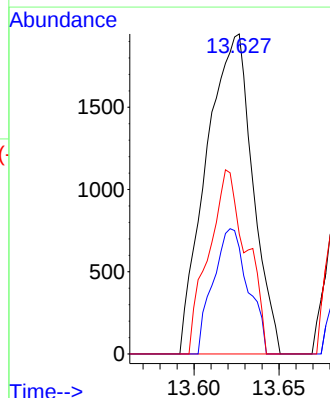
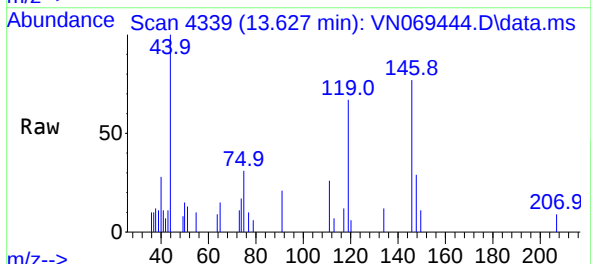
Instrument :
MSVOA_N
ClientSampleId :
TWP02

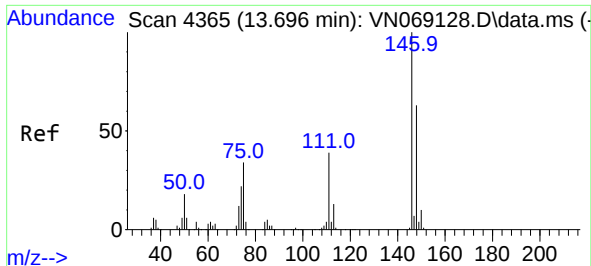
Tgt Ion: 91 Resp: 4087
Ion Ratio Lower Upper
91 100
126 30.0 0.0 70.6



#83
1,3-Dichlorobenzene
Concen: 0.351 ug/l
RT: 13.627 min Scan# 4339
Delta R.T. 0.008 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 146 Resp: 3697
Ion Ratio Lower Upper
146 100
111 29.4 20.8 62.2
148 38.1 31.4 94.3

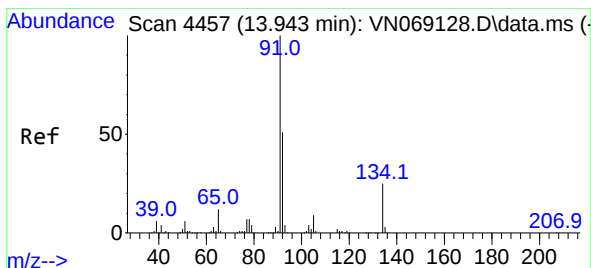
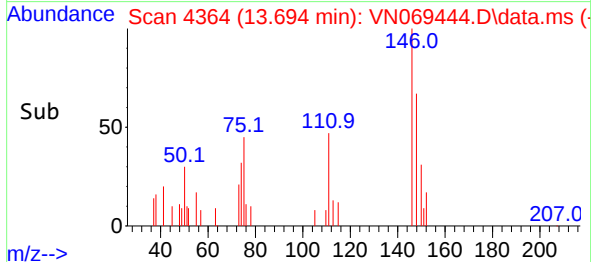
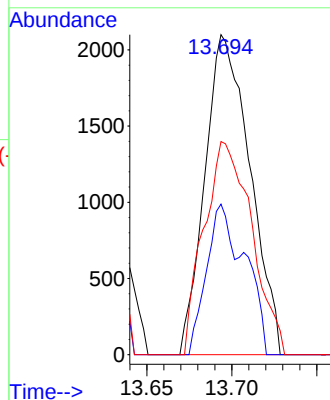
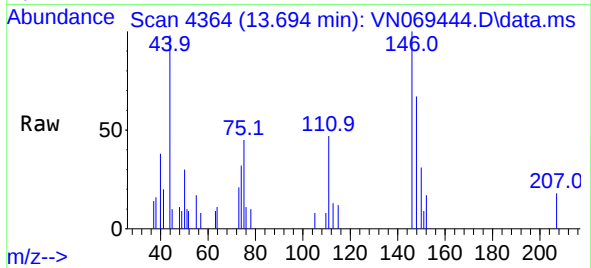




#84
1,4-Dichlorobenzene
Concen: 0.380 ug/l
RT: 13.694 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

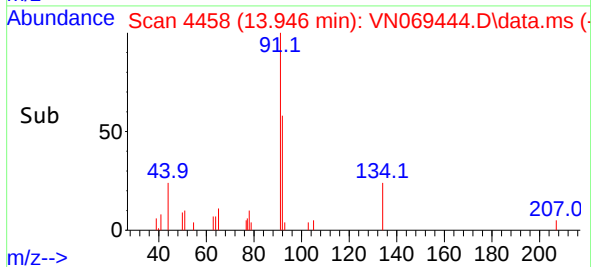
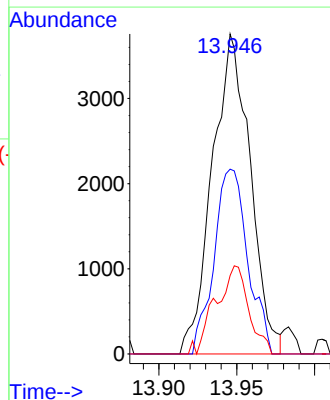
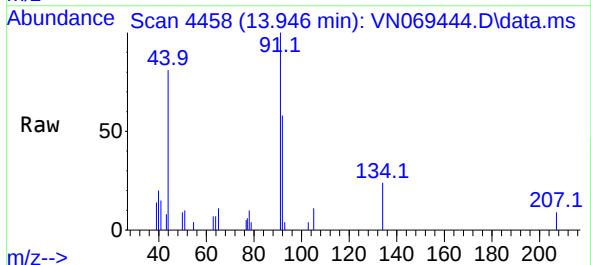
Instrument :
MSVOA_N
ClientSampleId :
TWP02

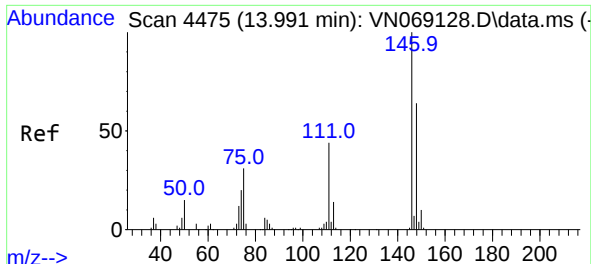
Tgt Ion:146 Resp: 3876
Ion Ratio Lower Upper
146 100
111 26.5 19.5 58.5
148 70.5 31.1 93.5



#85
n-Butylbenzene
Concen: 0.354 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion: 91 Resp: 6356
Ion Ratio Lower Upper
91 100
92 51.5 0.0 100.6
134 17.8 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.382 ug/l

RT: 13.694 min Scan# 41

Delta R.T. -0.298 min

Lab File: VN069444.D

Acq: 10 Nov 2021 16:16

Instrument :

MSVOA_N

ClientSampleId :

TWP02

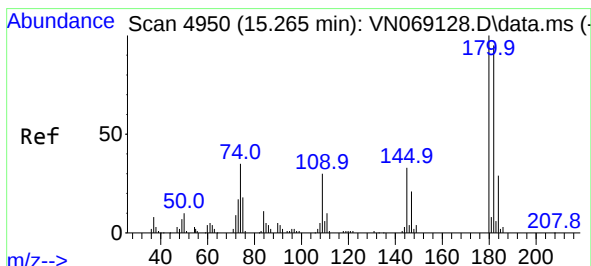
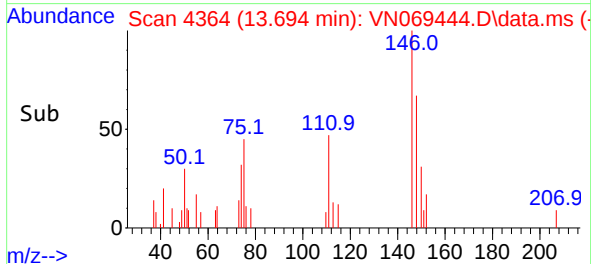
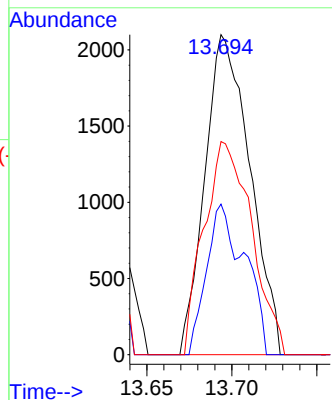
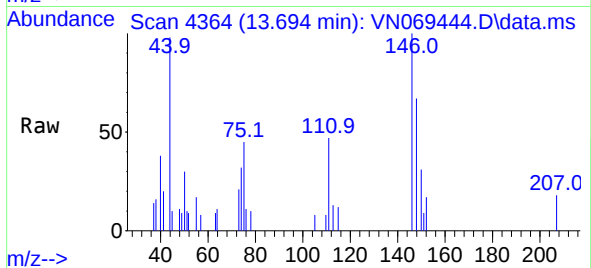
Tgt Ion:146 Resp: 3876

Ion Ratio Lower Upper

146 100

111 26.5 21.4 64.2

148 70.5 32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 1.053 ug/l

RT: 15.271 min Scan# 4952

Delta R.T. 0.005 min

Lab File: VN069444.D

Acq: 10 Nov 2021 16:16

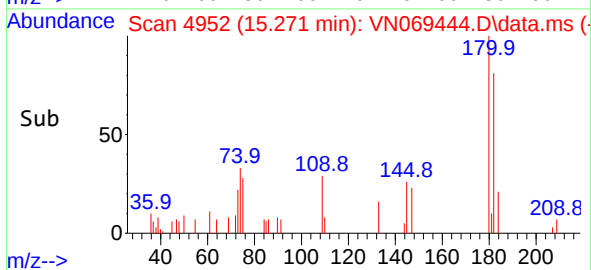
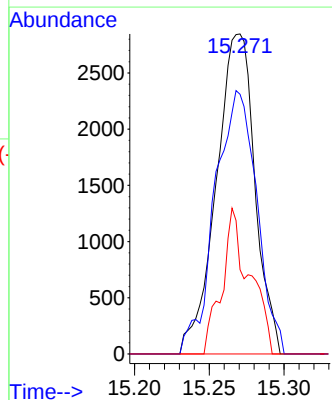
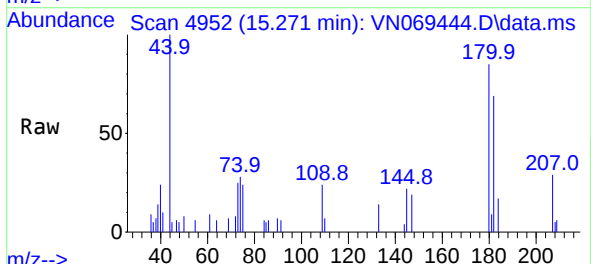
Tgt Ion:180 Resp: 5129

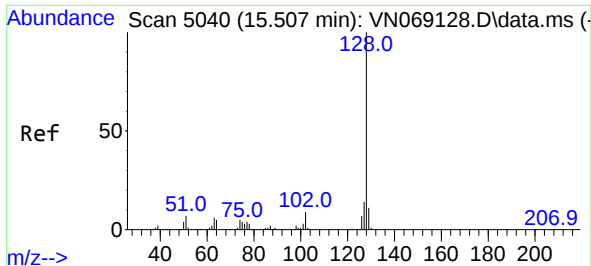
Ion Ratio Lower Upper

180 100

182 85.0 77.7 116.5

145 10.5 26.6 39.8#

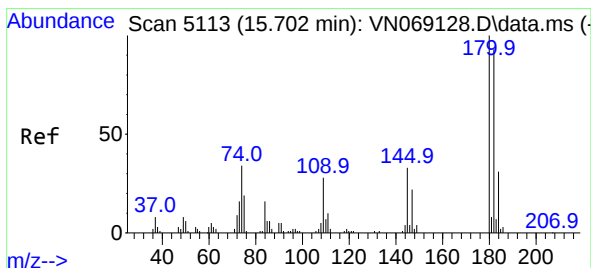
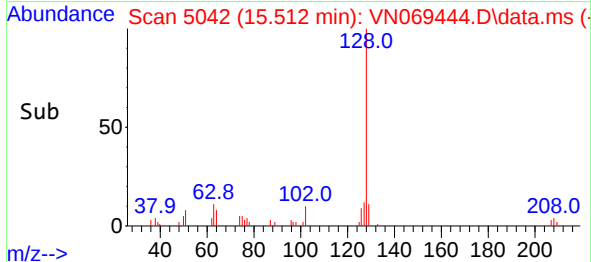
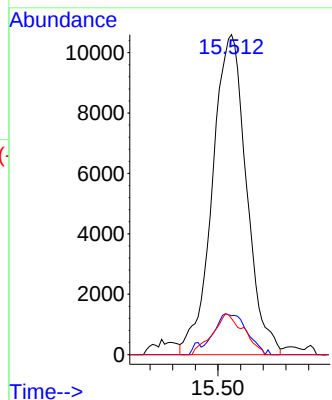
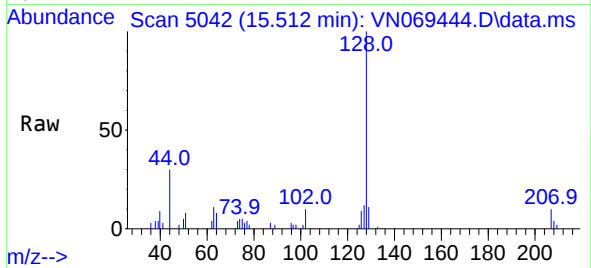




#91
Naphthalene
Concen: 1.575 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Instrument :
MSVOA_N
ClientSampleId :
TWP02

Tgt Ion:128 Resp: 22093
Ion Ratio Lower Upper
128 100
127 4.9 10.7 16.1#
129 9.3 9.0 13.6



#92
1,2,3-Trichlorobenzene
Concen: 1.211 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN069444.D
Acq: 10 Nov 2021 16:16

Tgt Ion:180 Resp: 5794
Ion Ratio Lower Upper
180 100
182 98.8 0.0 190.0
145 26.0 0.0 67.8

