

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121021\
 Data File : BP008356.D
 Acq On : 10 Dec 2021 23:56
 Operator : CG/JU
 Sample : M4966-22
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 P3-COMP

Quant Time: Dec 11 04:02:44 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP112521.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 11 03:53:01 2021
 Response via : Initial Calibration

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

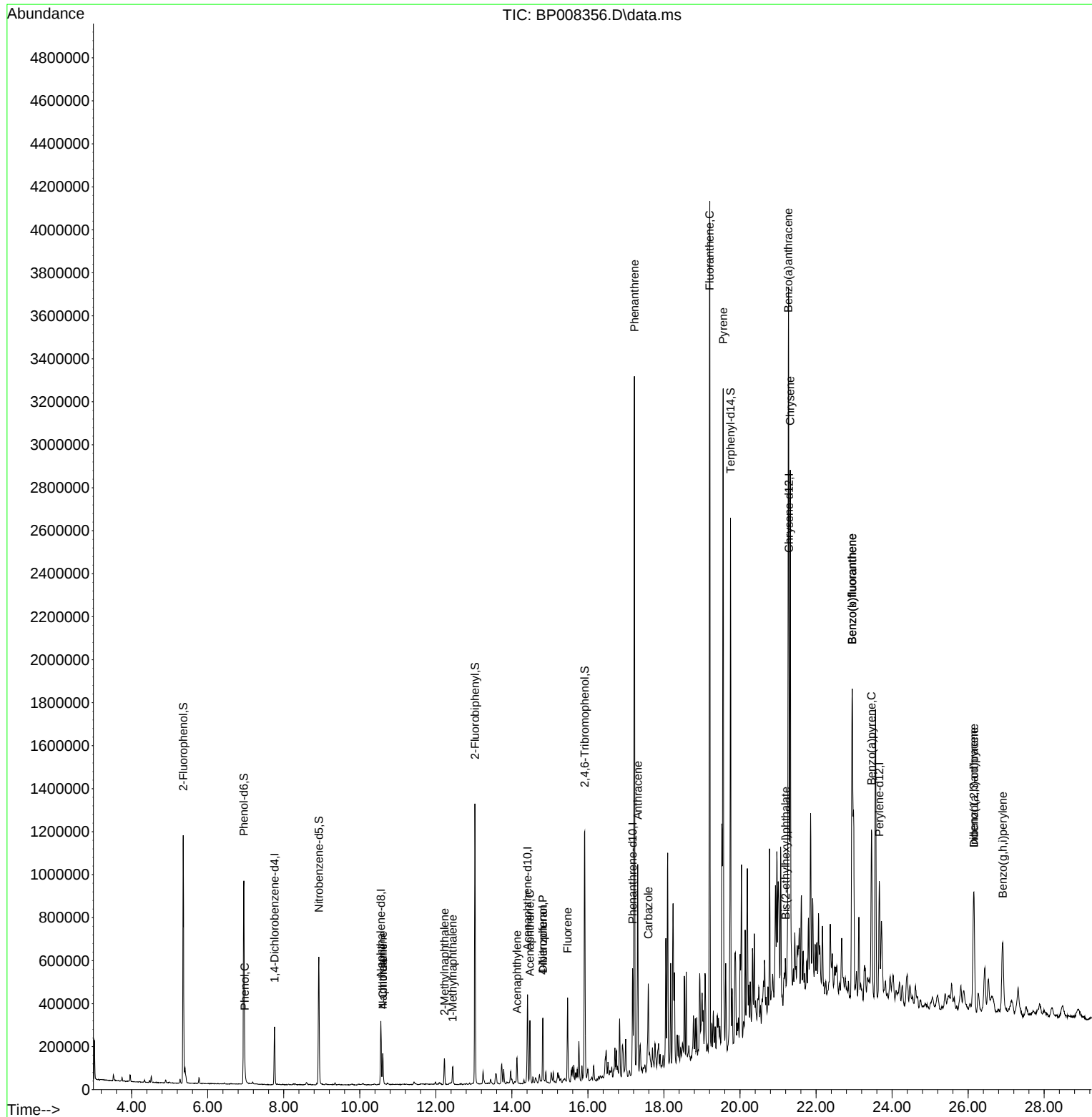
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	67496	20.000	ng	0.00
21) Naphthalene-d8	10.552	136	225281	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	130107	20.000	ng	0.00
64) Phenanthrene-d10	17.175	188	287080	20.000	ng	0.00
76) Chrysene-d12	21.286	240	395212	20.000	ng	0.00
86) Perylene-d12	23.663	264	415076	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	466908	111.379	ng	0.00
7) Phenol-d6	6.952	99	549029	97.019	ng	0.00
23) Nitrobenzene-d5	8.922	82	360100	72.687	ng	0.00
42) 2,4,6-Tribromophenol	15.916	330	183198	110.162	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	629973	70.331	ng	0.00
79) Terphenyl-d14	19.751	244	1076037	56.902	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.893	77	66	Below Cal	#	37
10) Phenol	6.975	94	16257	2.796	ng	# 70
31) Naphthalene	10.605	128	111068	9.624	ng	100
33) 4-Chloroaniline	10.605	127	15441	3.225	ng	# 37
37) 2-Methylnaphthalene	12.228	142	55287	6.774	ng	94
38) 1-Methylnaphthalene	12.446	142	36960	4.652	ng	100
49) Acenaphthylene	14.134	152	68621	5.967	ng	97
52) Acenaphthene	14.475	154	95947	13.999	ng	95
55) Dibenzofuran	14.816	168	165581	14.137	ng	99
56) 4-Nitrophenol	14.810	139	64340	40.850	ng	# 2
58) Fluorene	15.463	166	157034	16.502	ng	94
71) Phenanthrene	17.222	178	1840295	121.413	ng	99
72) Anthracene	17.310	178	557315	37.050	ng	100
73) Carbazole	17.586	167	234518	15.971	ng	98
75) Fluoranthene	19.204	202	2344158	114.804	ng	98
78) Pyrene	19.557	202	1958717	80.743	ng	100
81) Benzo(a)anthracene	21.269	228	1574855	60.125	ng	99
83) Chrysene	21.322	228	1256659	50.418	ng	97
84) Bis(2-ethylhexyl)phtha...	21.198	149	37892	2.218	ng	98
87) Indeno(1,2,3-cd)pyrene	26.151	276	554252	18.354	ng	# 95
88) Benzo(b)fluoranthene	22.951	252	1874867	74.926	ng	98
89) Benzo(k)fluoranthene	22.951	252	1874867	76.533	ng	97
90) Benzo(a)pyrene	23.457	252	594522	27.799	ng	98
91) Dibenzo(a,h)anthracene	26.151	278	208870	8.329	ng	# 92
92) Benzo(g,h,i)perylene	26.910	276	460022	18.182	ng	98

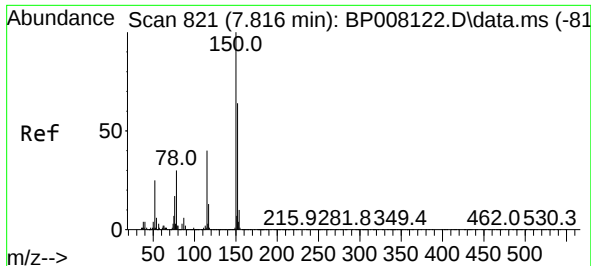
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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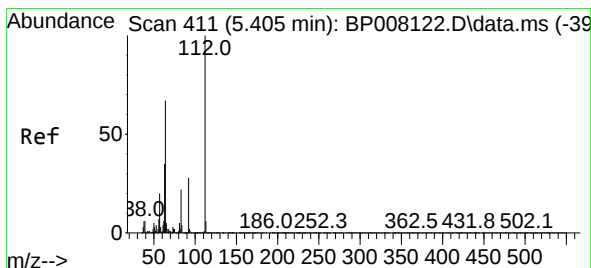
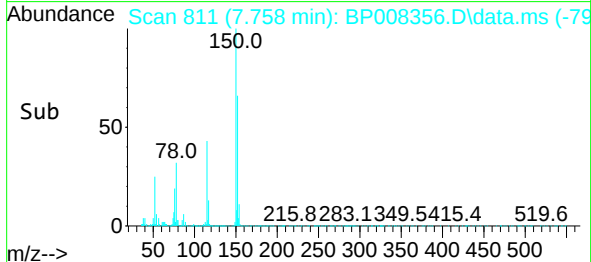
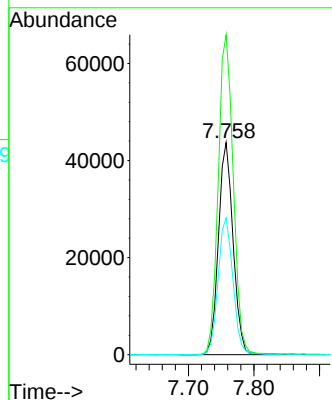
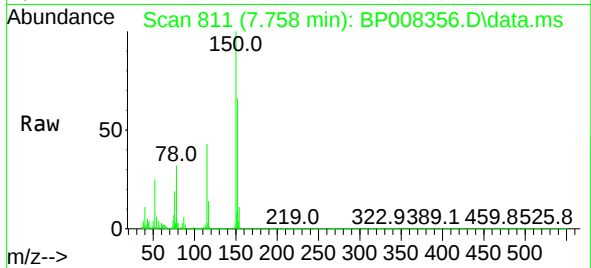




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 81
Delta R.T. -0.005 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

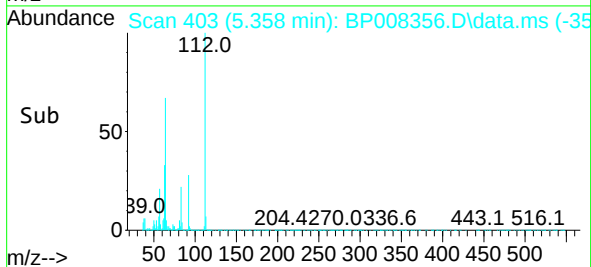
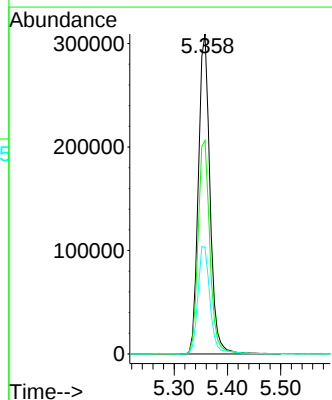
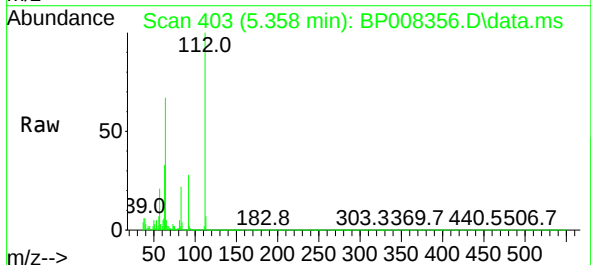
Instrument :
BNA_P
ClientSampleId :
P3-COMP

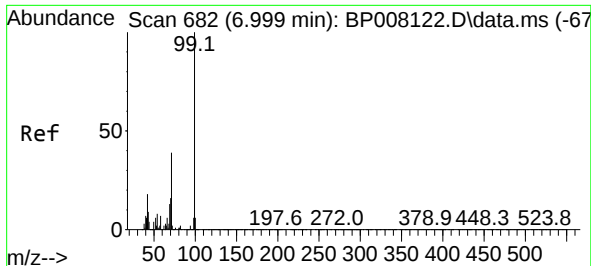
Tgt Ion:152 Resp: 67496
Ion Ratio Lower Upper
152 100
150 150.9 125.7 188.5
115 64.5 50.7 76.1



#5
2-Fluorophenol
Concen: 111.379 ng
RT: 5.358 min Scan# 403
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:112 Resp: 466908
Ion Ratio Lower Upper
112 100
64 66.7 53.4 80.2
63 33.4 27.8 41.8

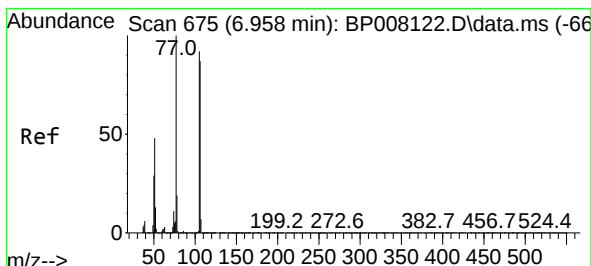
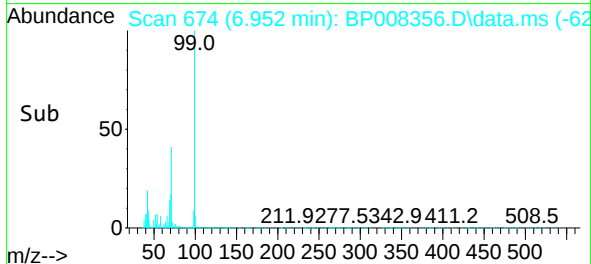
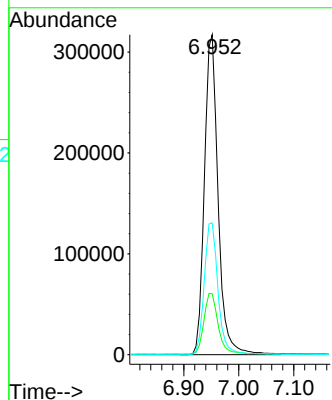
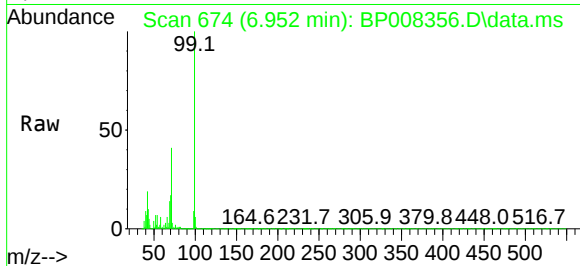




#7
Phenol-d6
Concen: 97.019 ng
RT: 6.952 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

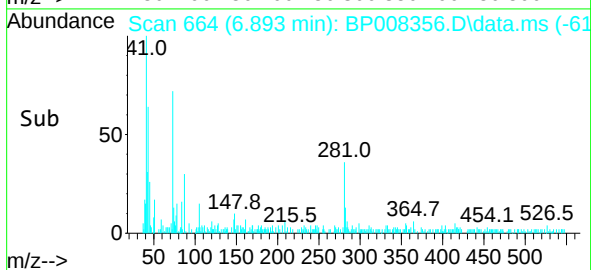
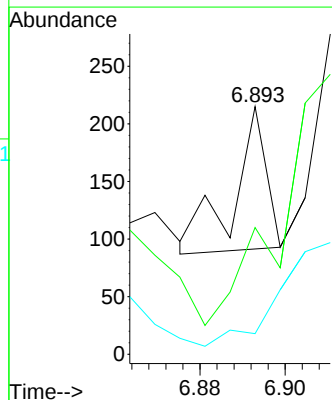
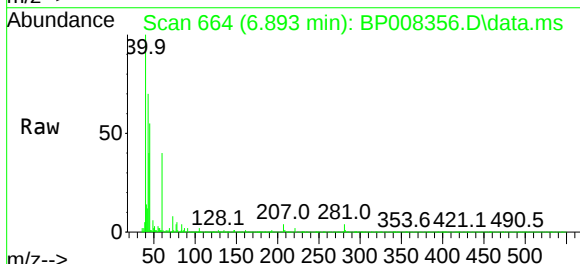
Instrument :
BNA_P
ClientSampleId :
P3-COMP

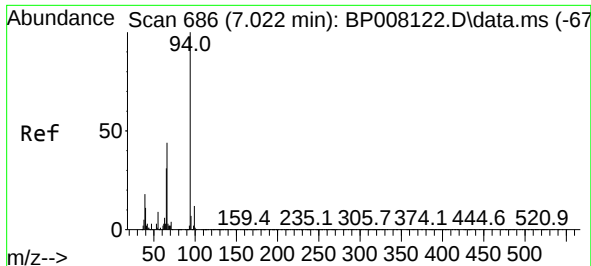
Tgt Ion: 99 Resp: 549029
Ion Ratio Lower Upper
99 100
42 19.1 14.6 22.0
71 41.2 31.1 46.7



#9
Benzaldehyde
Concen: Below Cal
RT: 6.893 min Scan# 664
Delta R.T. -0.018 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion: 77 Resp: 66
Ion Ratio Lower Upper
77 100
105 51.2 71.8 111.8#
106 8.4 67.3 107.3#

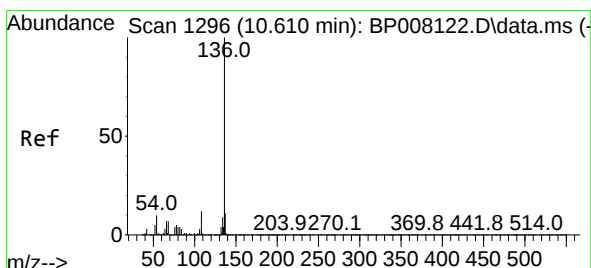
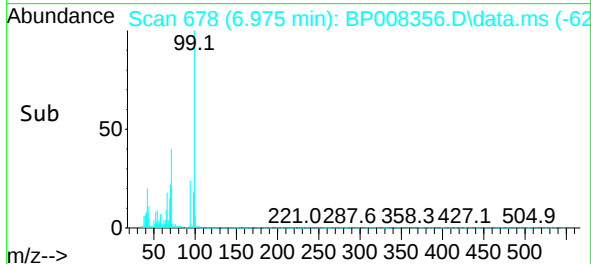
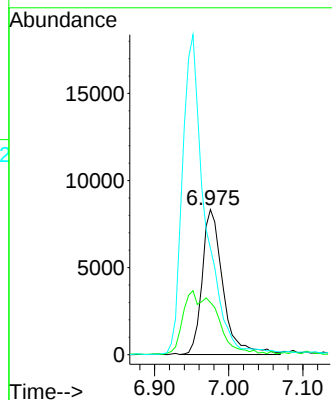
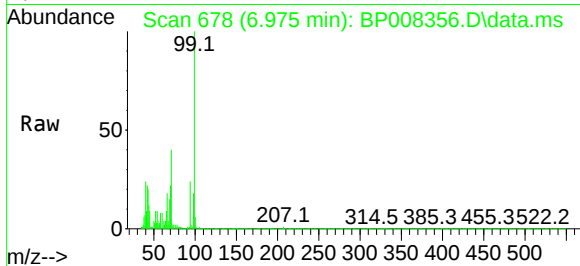




#10
Phenol
Concen: 2.796 ng
RT: 6.975 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

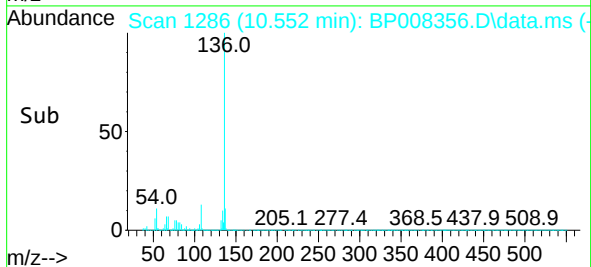
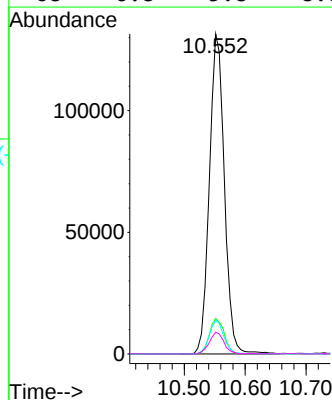
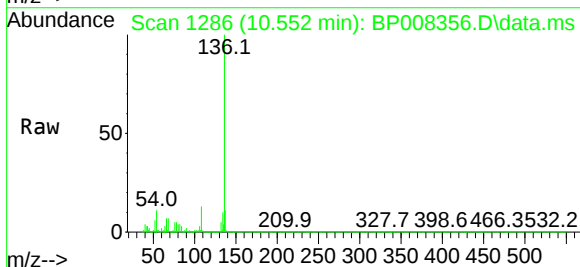
Instrument :
BNA_P
ClientSampleId :
P3-COMP

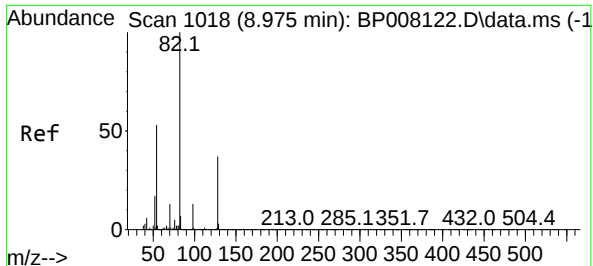
Tgt Ion: 94 Resp: 16257
Ion Ratio Lower Upper
94 100
65 35.9 10.9 50.9
66 73.3 24.3 64.3#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.552 min Scan# 1286
Delta R.T. -0.006 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:136 Resp: 225281
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 11.2 8.2 12.4
68 6.8 5.8 8.8





#23

Nitrobenzene-d5

Concen: 72.687 ng

RT: 8.922 min Scan# 1009

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

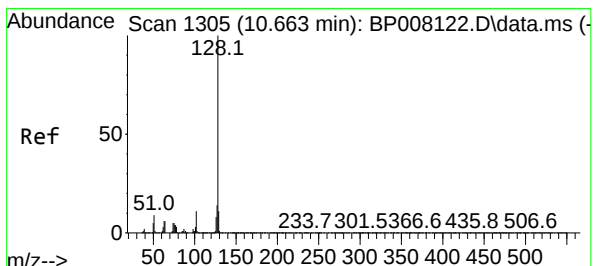
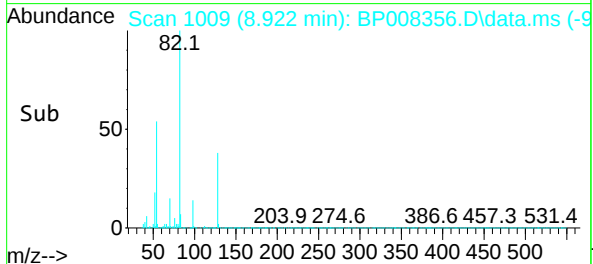
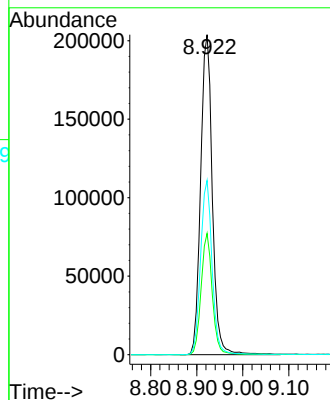
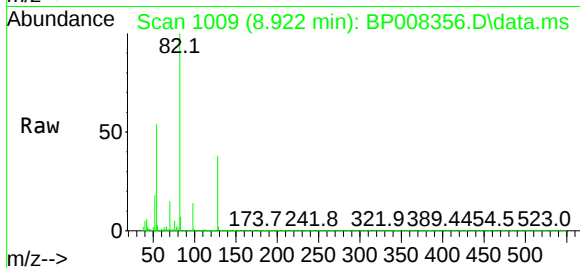
Tgt Ion: 82 Resp: 360100

Ion Ratio Lower Upper

82 100

128 37.9 29.6 44.4

54 54.4 42.7 64.1



#31

Naphthalene

Concen: 9.624 ng

RT: 10.605 min Scan# 1295

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

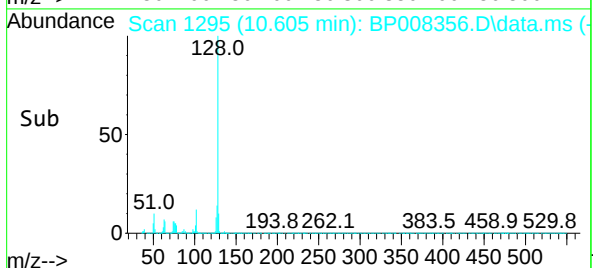
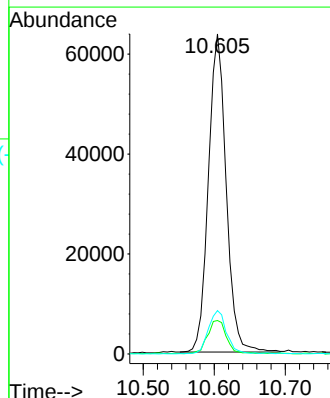
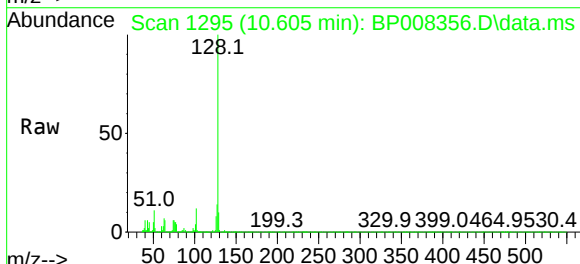
Tgt Ion: 128 Resp: 111068

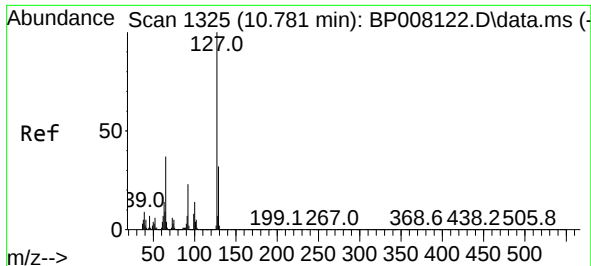
Ion Ratio Lower Upper

128 100

129 10.5 8.5 12.7

127 13.5 10.9 16.3

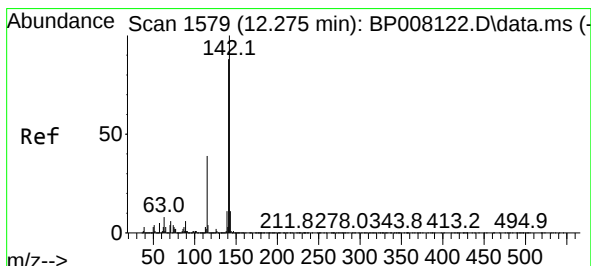
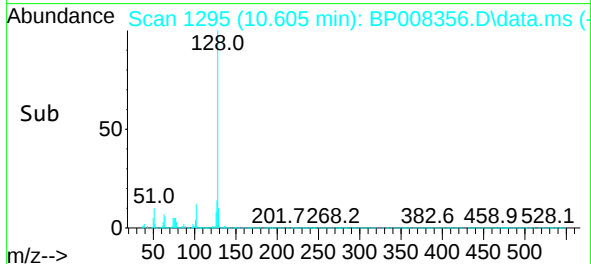
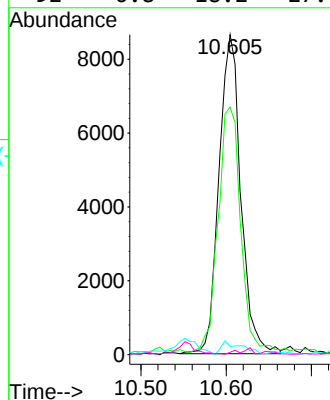
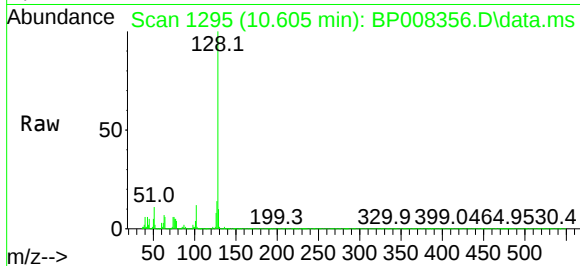




#33
4-Chloroaniline
Concen: 3.225 ng
RT: 10.605 min Scan# 11
Delta R.T. -0.129 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

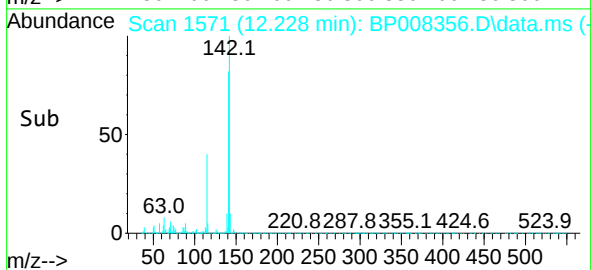
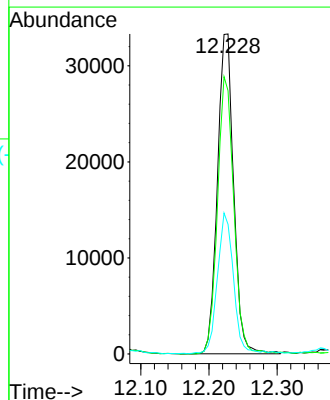
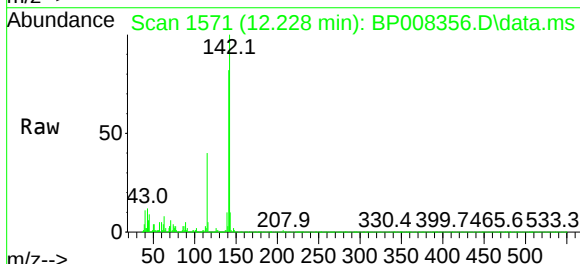
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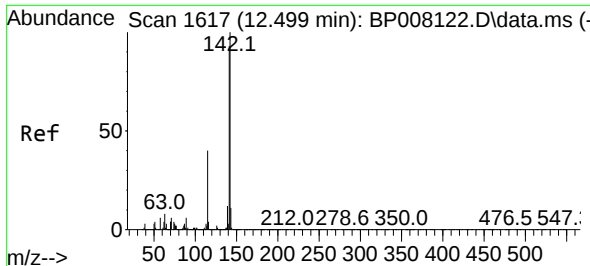
Tgt Ion:127	Resp:	15441
Ion Ratio	Lower	Upper
127	100	
129	77.3	25.4 38.2#
65	2.6	29.5 44.3#
92	0.8	18.2 27.4#



#37
2-Methylnaphthalene
Concen: 6.774 ng
RT: 12.228 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:142	Resp:	55287
Ion Ratio	Lower	Upper
142	100	
141	82.2	70.7 106.1
115	40.5	30.9 46.3

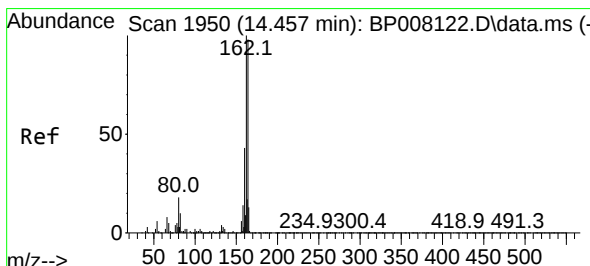
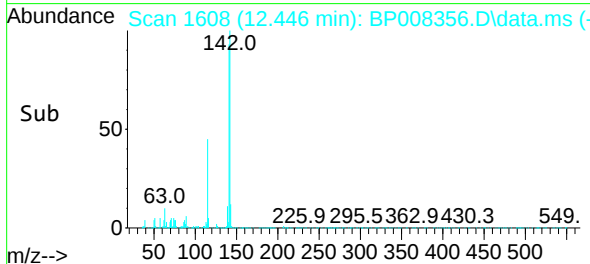
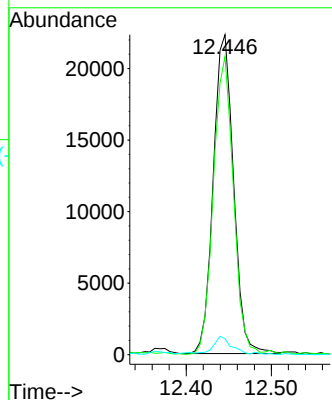
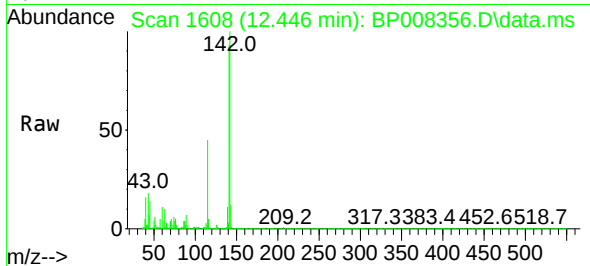




#38
1-Methylnaphthalene
Concen: 4.652 ng
RT: 12.446 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

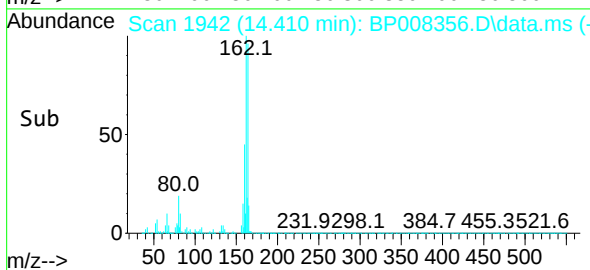
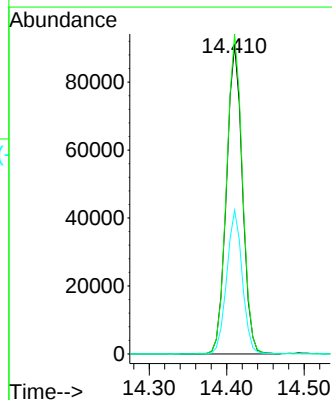
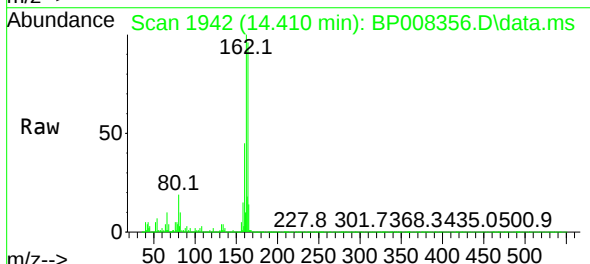
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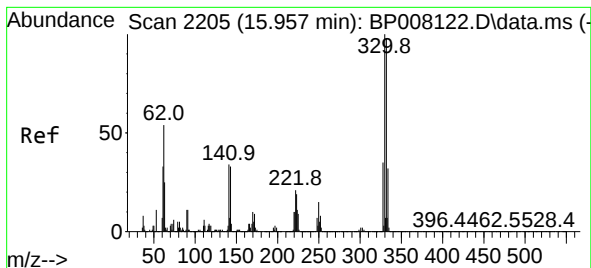
Tgt Ion:142 Resp: 36960
Ion Ratio Lower Upper
142 100
141 93.1 74.2 111.4
116 5.0 3.4 5.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:164 Resp: 130107
Ion Ratio Lower Upper
164 100
162 103.7 81.9 122.9
160 46.6 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 110.162 ng

RT: 15.916 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

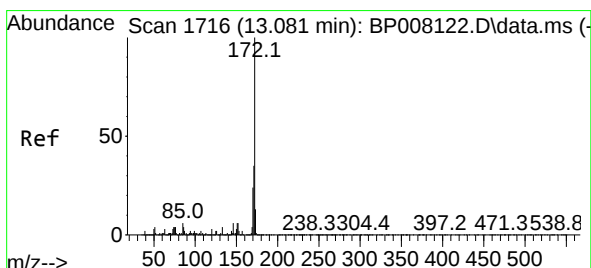
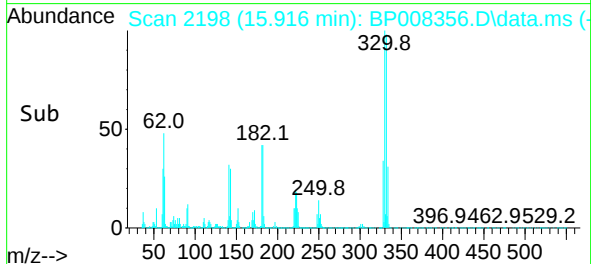
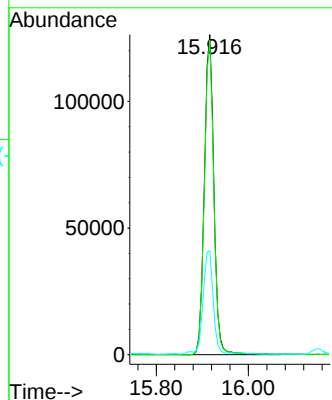
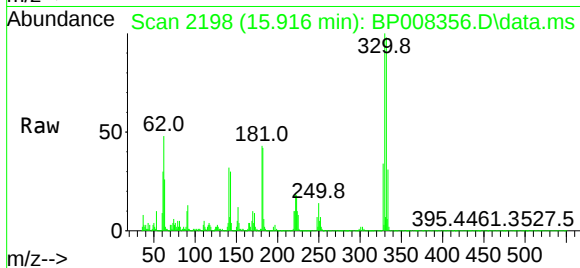
Tgt Ion:330 Resp: 183198

Ion Ratio Lower Upper

330 100

332 97.1 77.0 115.4

141 34.1 28.4 42.6



#45

2-Fluorobiphenyl

Concen: 70.331 ng

RT: 13.028 min Scan# 1707

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

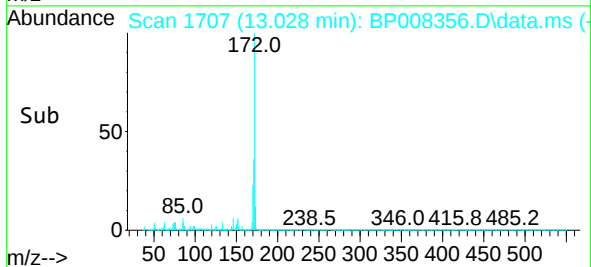
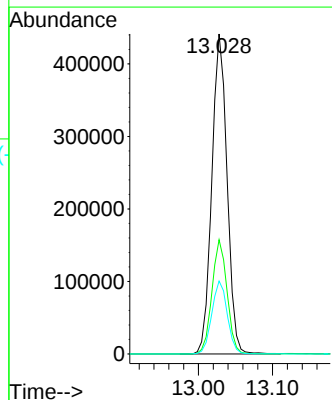
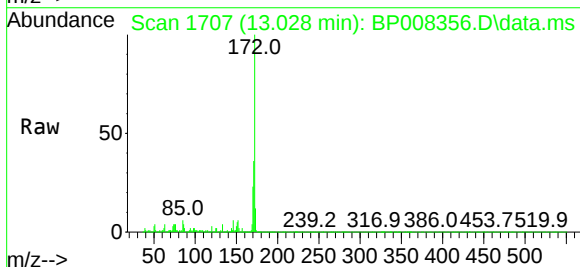
Tgt Ion:172 Resp: 629973

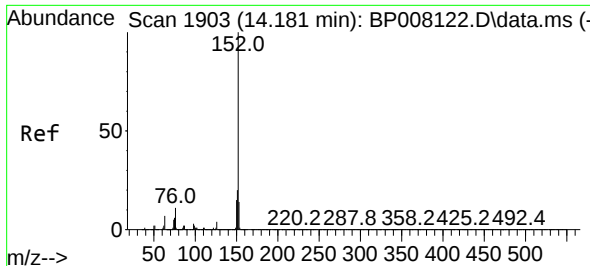
Ion Ratio Lower Upper

172 100

171 35.7 28.0 42.0

170 22.8 18.9 28.3

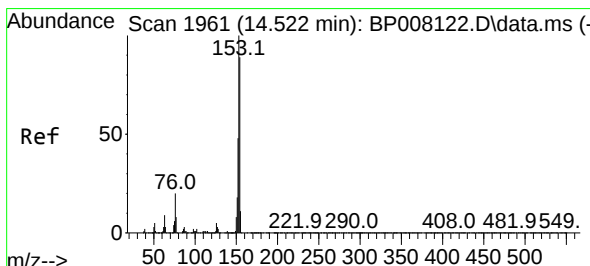
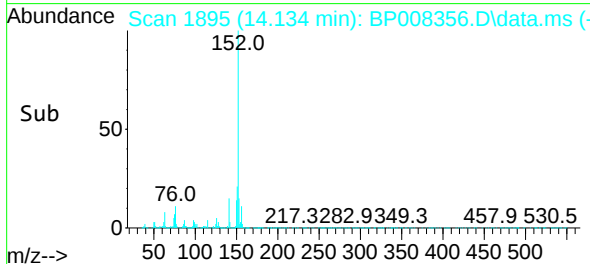
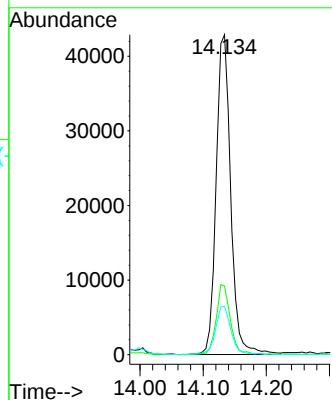
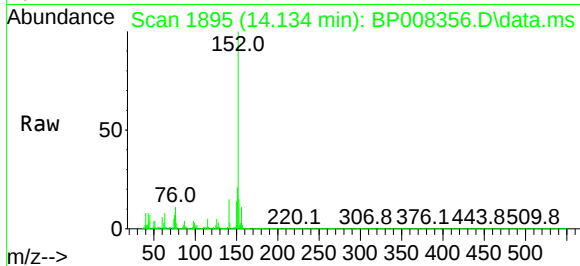




#49
Acenaphthylene
Concen: 5.967 ng
RT: 14.134 min Scan# 1895
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

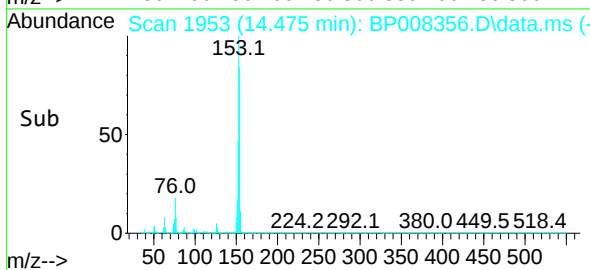
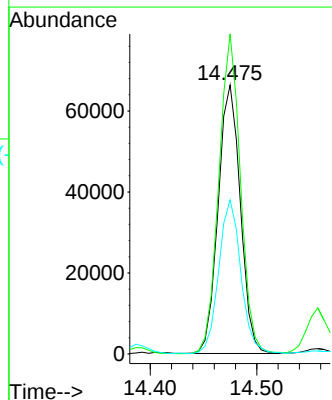
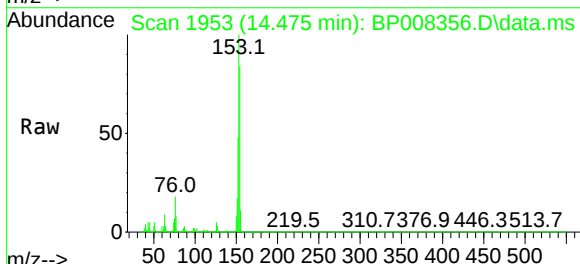
Instrument :
BNA_P
ClientSampleId :
P3-COMP

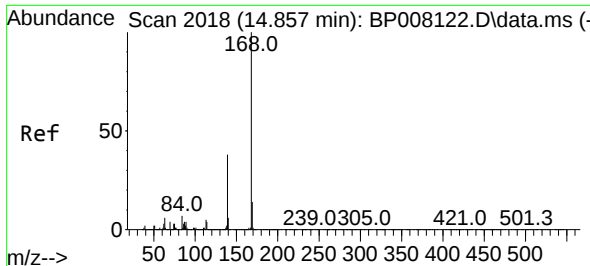
Tgt Ion:152 Resp: 68621
Ion Ratio Lower Upper
152 100
151 21.5 16.2 24.4
153 15.2 10.9 16.3



#52
Acenaphthene
Concen: 13.999 ng
RT: 14.475 min Scan# 1953
Delta R.T. -0.006 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:154 Resp: 95947
Ion Ratio Lower Upper
154 100
153 119.0 90.3 135.5
152 57.3 43.3 64.9

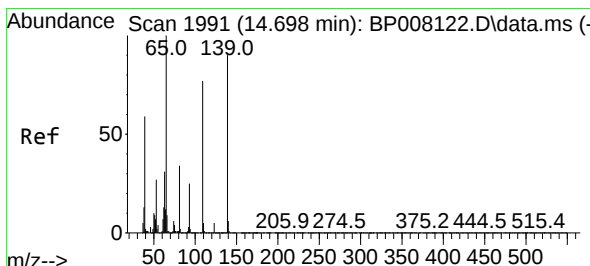
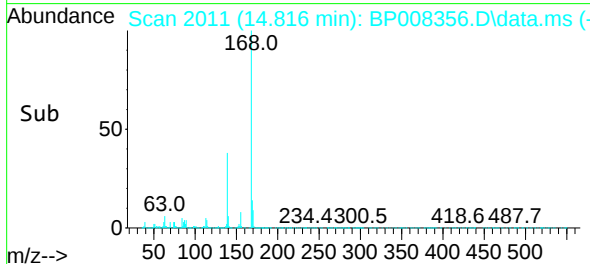
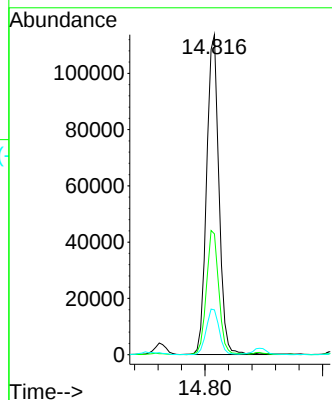
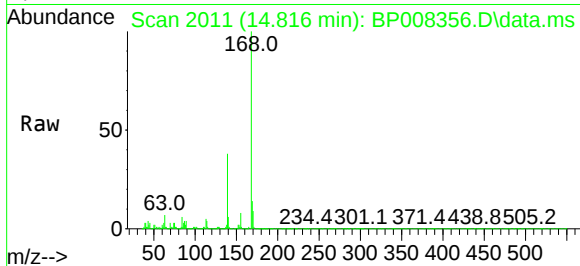




#55
Dibenzofuran
Concen: 14.137 ng
RT: 14.816 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

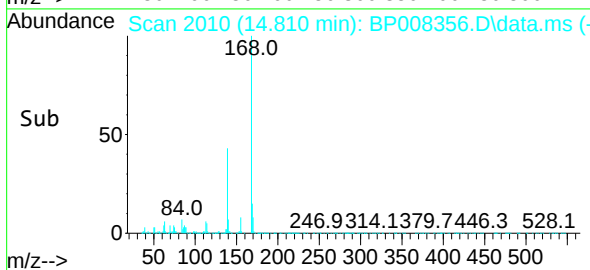
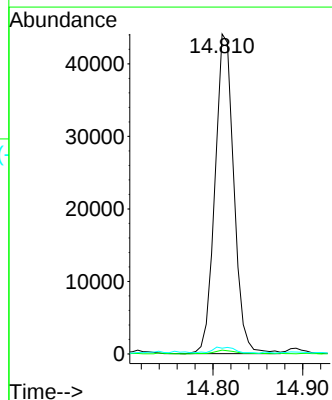
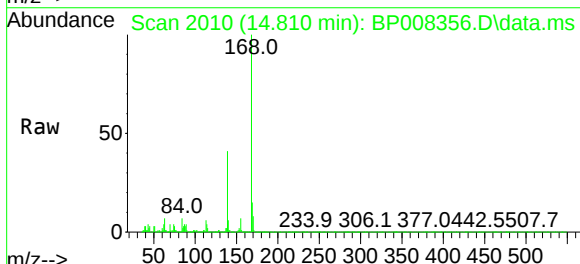
Instrument :
BNA_P
ClientSampleId :
P3-COMP

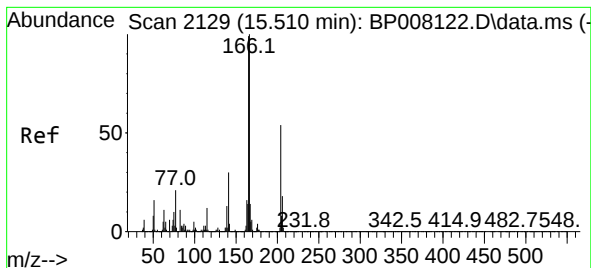
Tgt Ion:168 Resp: 165581
Ion Ratio Lower Upper
168 100
139 37.8 30.6 46.0
169 14.0 11.0 16.4



#56
4-Nitrophenol
Concen: 40.850 ng
RT: 14.810 min Scan# 2010
Delta R.T. 0.130 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:139 Resp: 64340
Ion Ratio Lower Upper
139 100
109 1.2 65.9 105.9#
65 1.8 91.9 131.9#





#58

Fluorene

Concen: 16.502 ng

RT: 15.463 min Scan# 2121

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

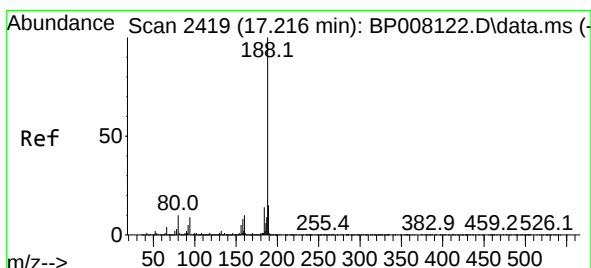
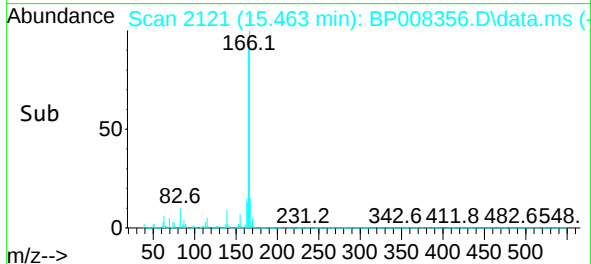
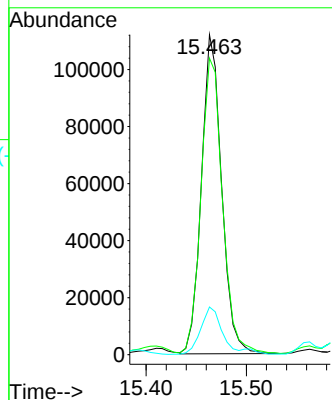
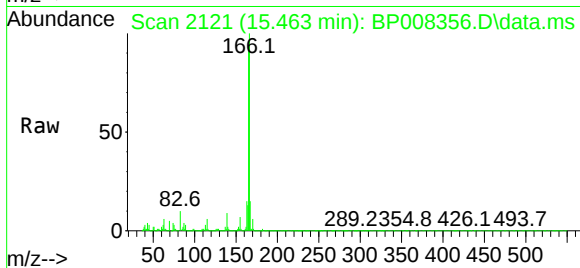
Tgt Ion:166 Resp: 157034

Ion Ratio Lower Upper

166 100

165 92.6 79.4 119.2

167 14.9 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.175 min Scan# 2412

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

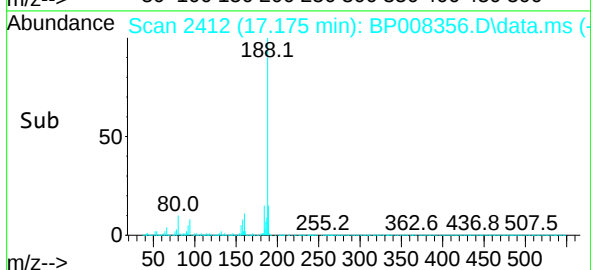
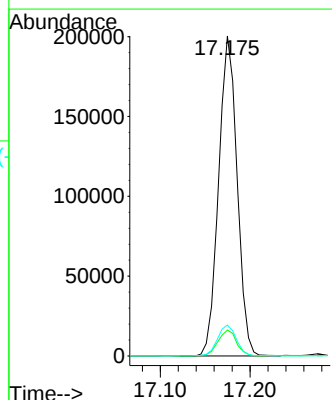
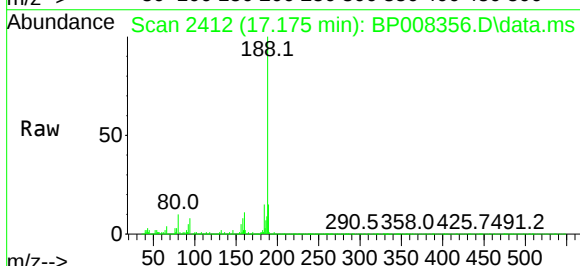
Tgt Ion:188 Resp: 287080

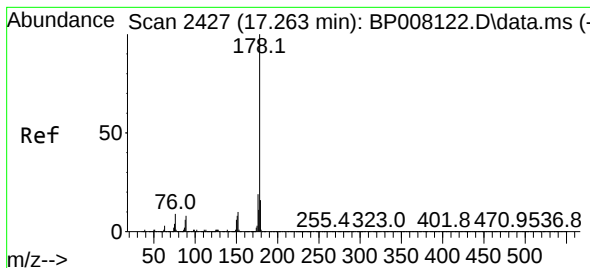
Ion Ratio Lower Upper

188 100

94 8.1 7.2 10.8

80 9.7 8.2 12.4





#71

Phenanthrene

Concen: 121.413 ng

RT: 17.222 min Scan# 2420

Delta R.T. 0.000 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

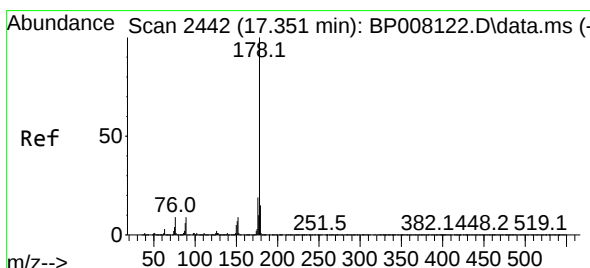
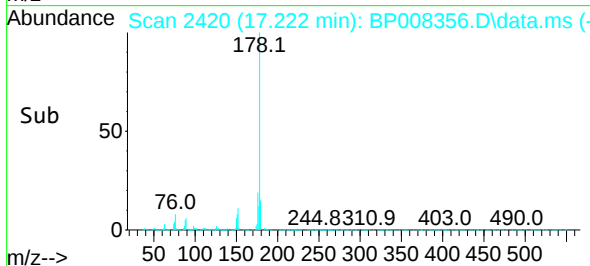
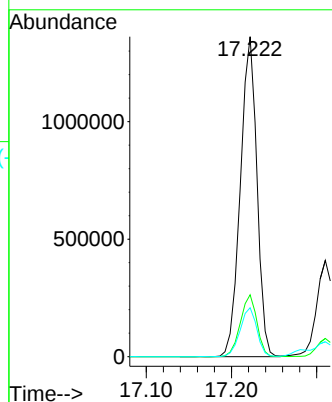
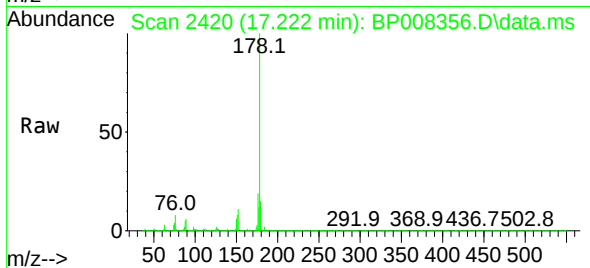
Tgt Ion:178 Resp: 1840295

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.3 12.5 18.7



#72

Anthracene

Concen: 37.050 ng

RT: 17.310 min Scan# 2435

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

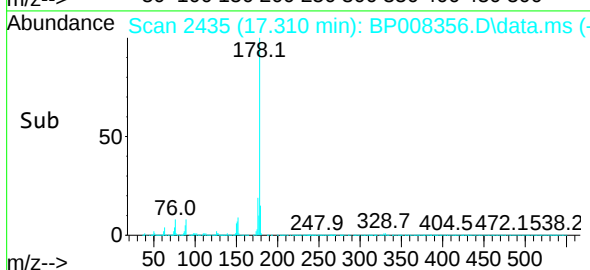
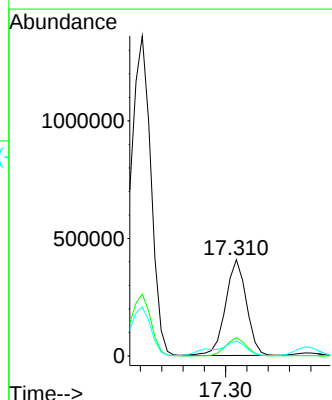
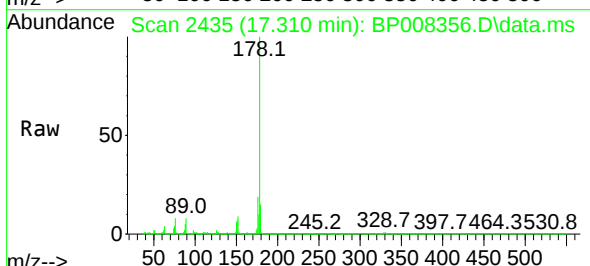
Tgt Ion:178 Resp: 557315

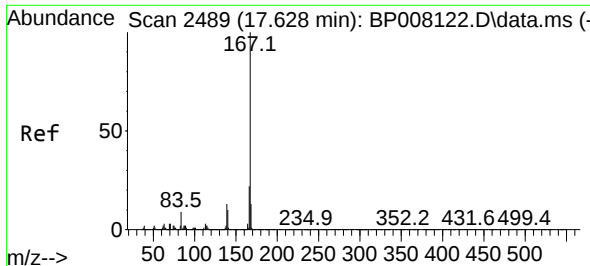
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.4 12.3 18.5

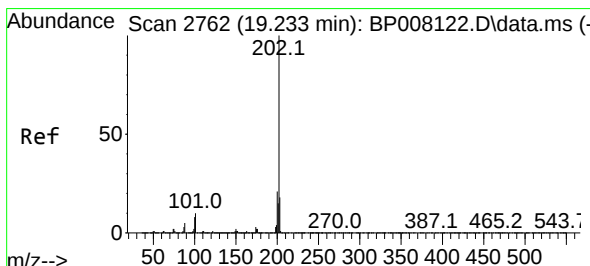
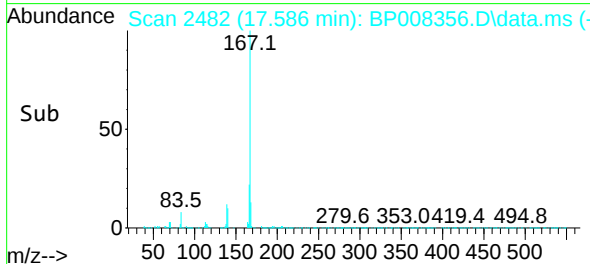
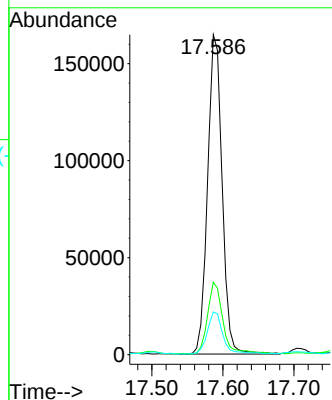
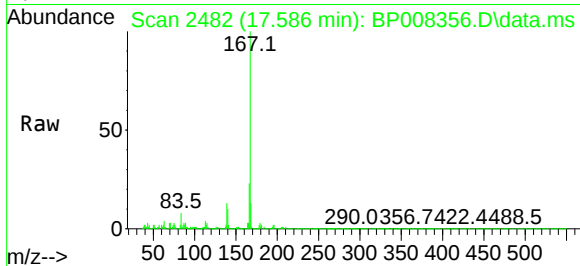




#73
 Carbazole
 Concen: 15.971 ng
 RT: 17.586 min Scan# 24
 Delta R.T. -0.012 min
 Lab File: BP008356.D
 Acq: 10 Dec 2021 23:56

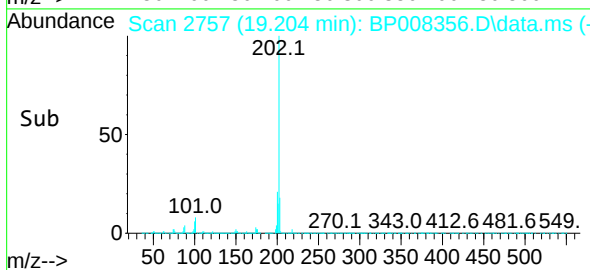
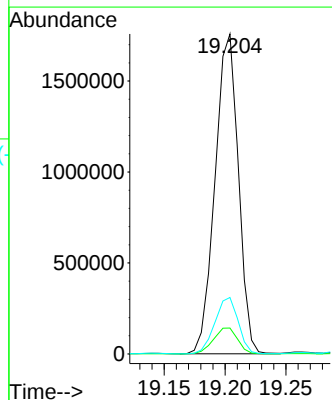
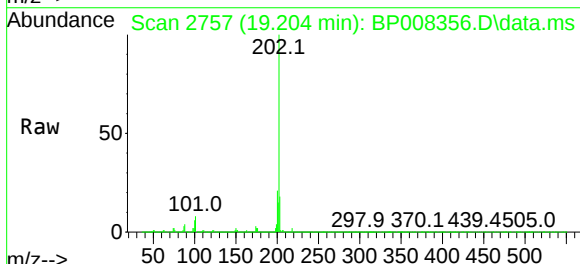
Instrument :
 BNA_P
 ClientSampleId :
 P3-COMP

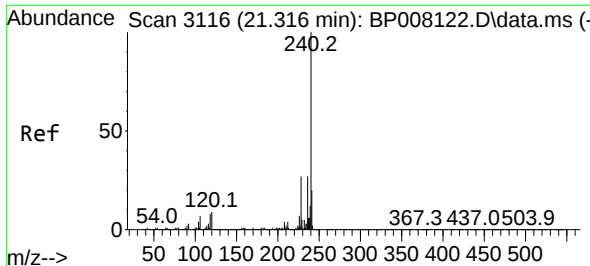
Tgt Ion:167 Resp: 234518
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.4 26.0
 139 13.3 10.2 15.2



#75
 Fluoranthene
 Concen: 114.804 ng
 RT: 19.204 min Scan# 2757
 Delta R.T. 0.000 min
 Lab File: BP008356.D
 Acq: 10 Dec 2021 23:56

Tgt Ion:202 Resp: 2344158
 Ion Ratio Lower Upper
 202 100
 101 8.1 0.0 29.8
 203 17.7 0.0 37.7

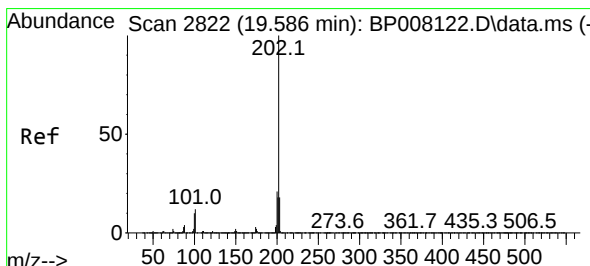
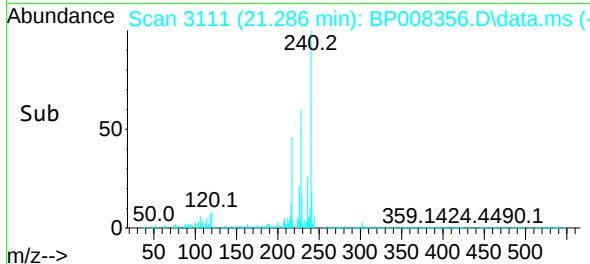
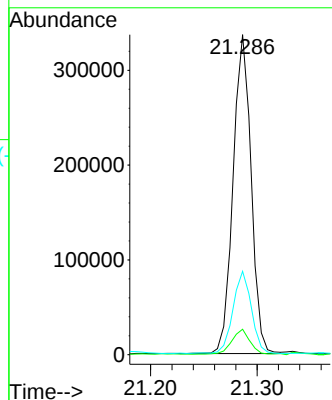
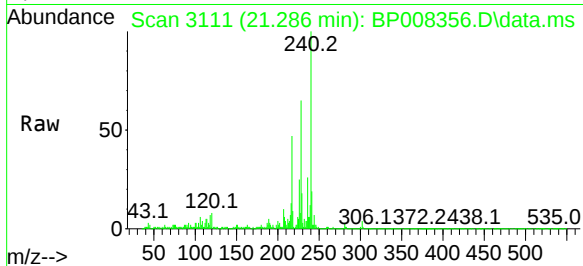




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.286 min Scan# 3116
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

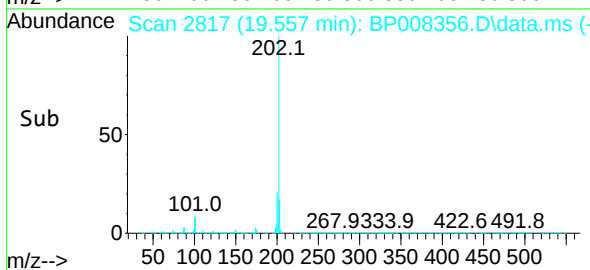
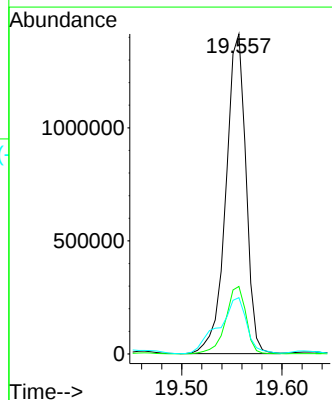
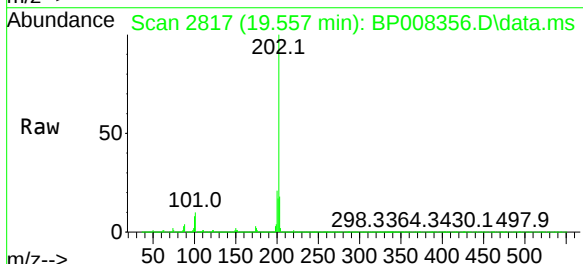
Instrument :
BNA_P
ClientSampleId :
P3-COMP

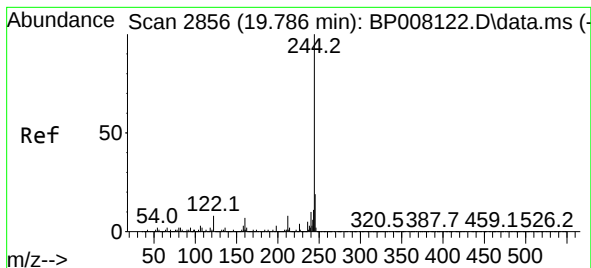
Tgt Ion:240 Resp: 395212
Ion Ratio Lower Upper
240 100
120 8.0 7.3 10.9
236 26.0 21.4 32.2



#78
Pyrene
Concen: 80.743 ng
RT: 19.557 min Scan# 2817
Delta R.T. 0.000 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:202 Resp: 1958717
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.6 14.2 21.2





#79

Terphenyl-d14

Concen: 56.902 ng

RT: 19.751 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

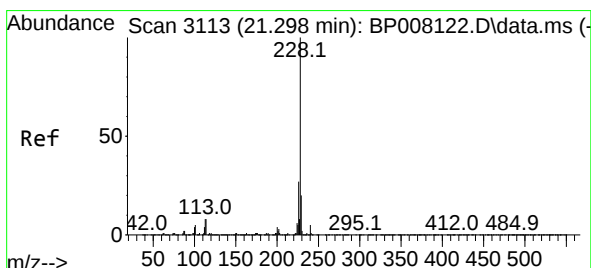
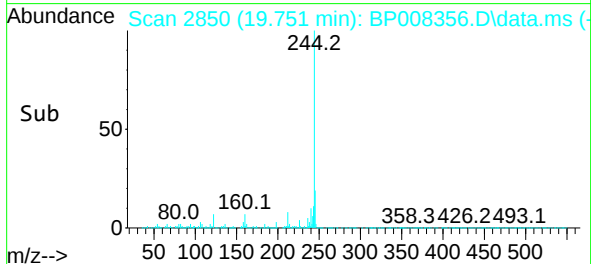
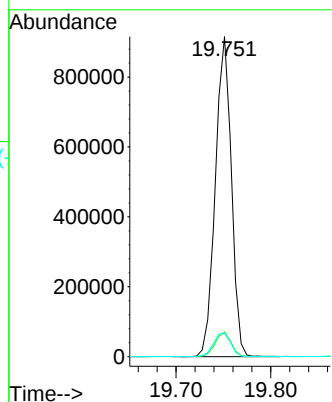
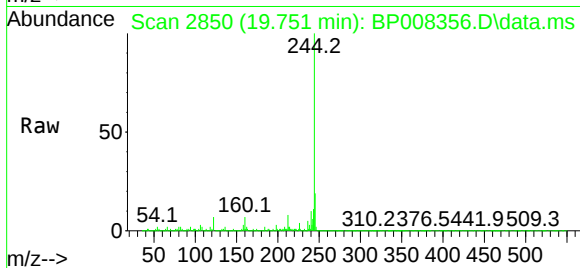
Tgt Ion:244 Resp: 1076037

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

122 7.3 6.6 9.8



#81

Benzo(a)anthracene

Concen: 60.125 ng

RT: 21.269 min Scan# 3108

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

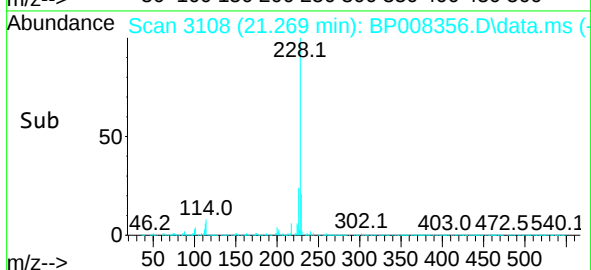
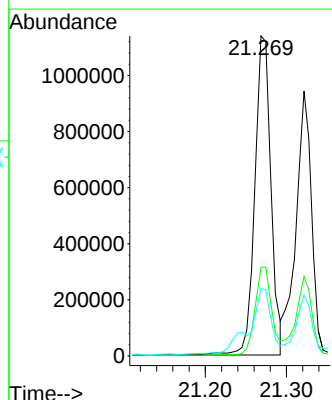
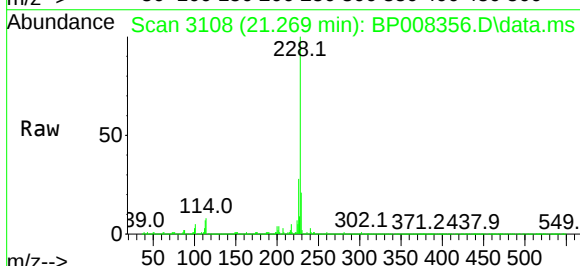
Tgt Ion:228 Resp: 1574855

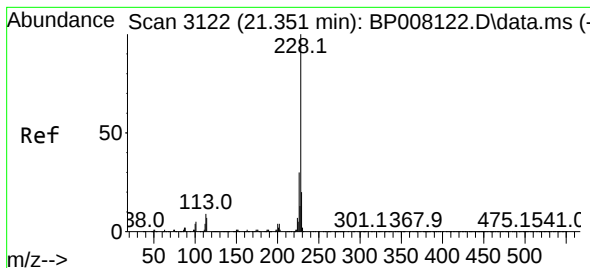
Ion Ratio Lower Upper

228 100

226 27.7 21.9 32.9

229 21.1 15.9 23.9





#83

Chrysene

Concen: 50.418 ng

RT: 21.322 min Scan# 3122

Delta R.T. -0.006 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

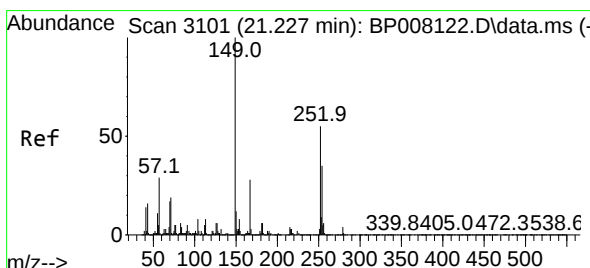
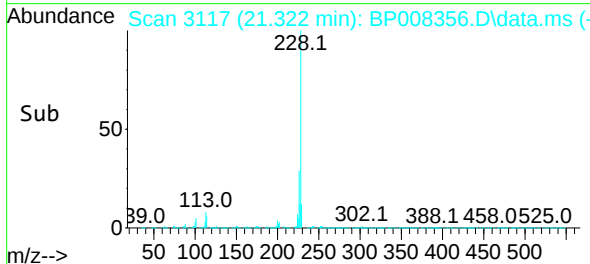
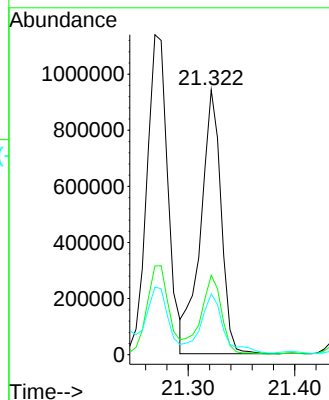
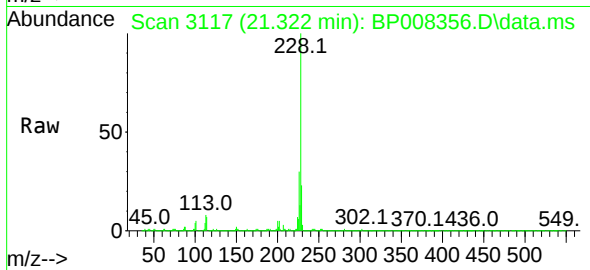
Tgt Ion:228 Resp: 1256659

Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

229 23.0 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.218 ng

RT: 21.198 min Scan# 3096

Delta R.T. 0.000 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

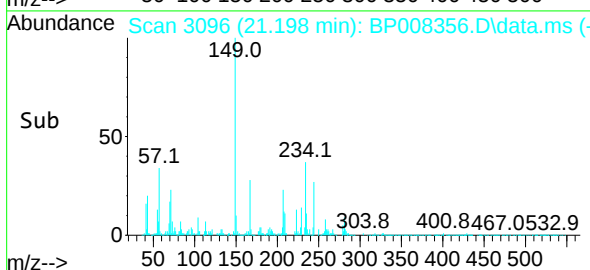
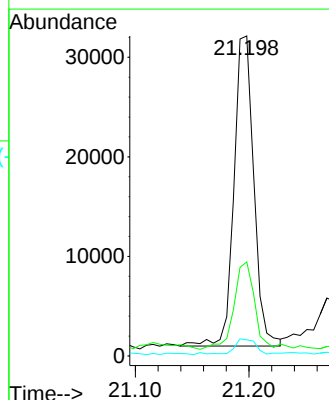
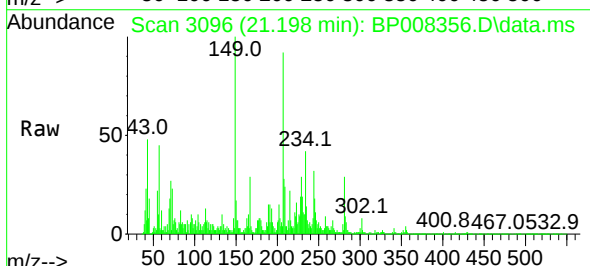
Tgt Ion:149 Resp: 37892

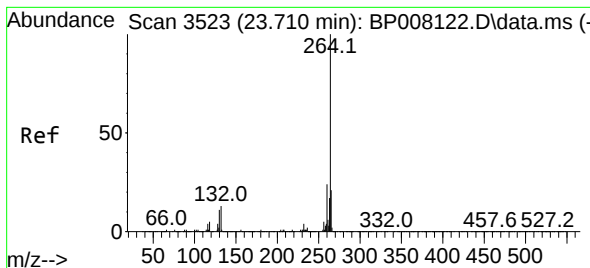
Ion Ratio Lower Upper

149 100

167 29.4 22.5 33.7

279 5.0 3.5 5.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.663 min Scan# 31

Delta R.T. -0.012 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

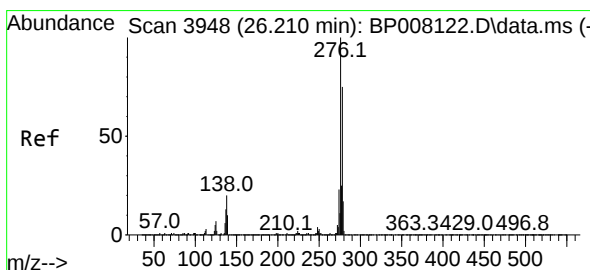
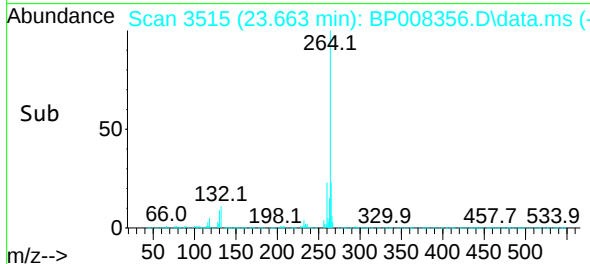
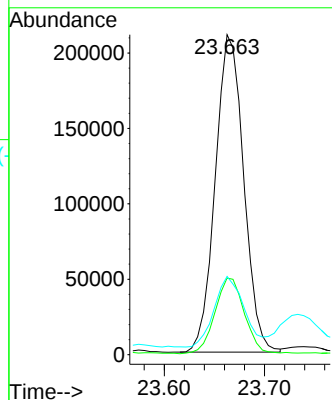
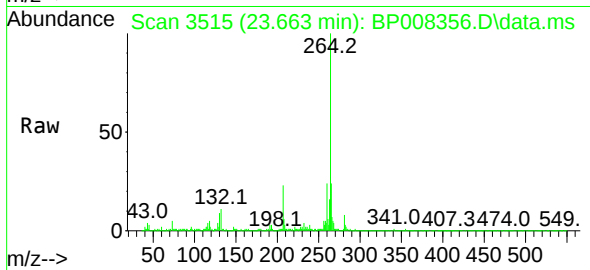
Tgt Ion:264 Resp: 415076

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

265 24.5 17.6 26.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 18.354 ng

RT: 26.151 min Scan# 3938

Delta R.T. -0.012 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

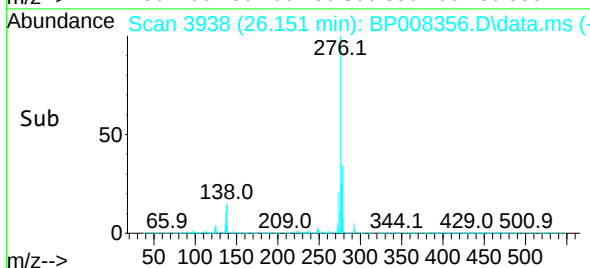
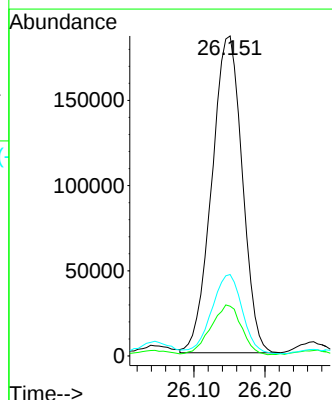
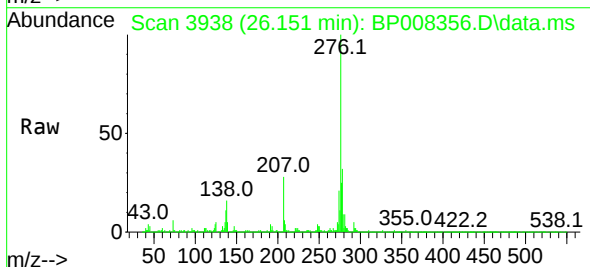
Tgt Ion:276 Resp: 554252

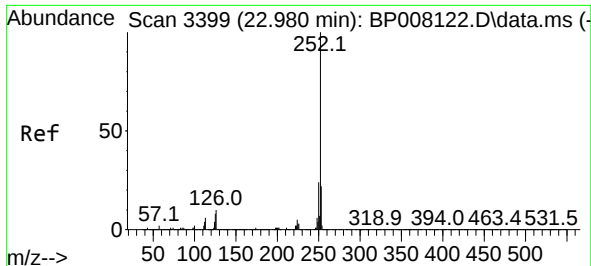
Ion Ratio Lower Upper

276 100

138 15.8 16.6 25.0#

277 25.1 20.2 30.2

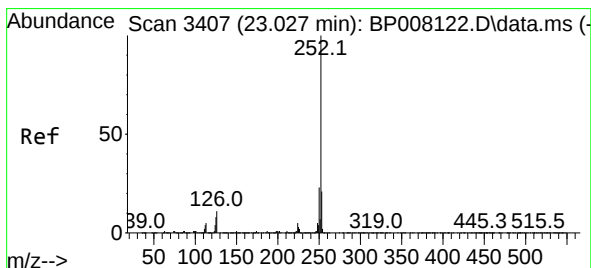
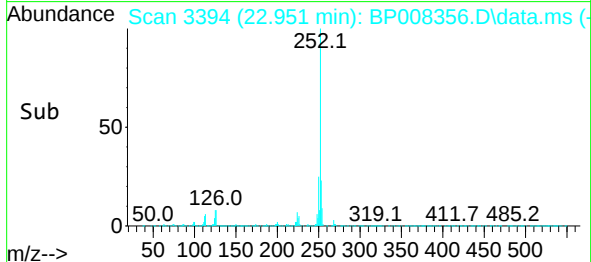
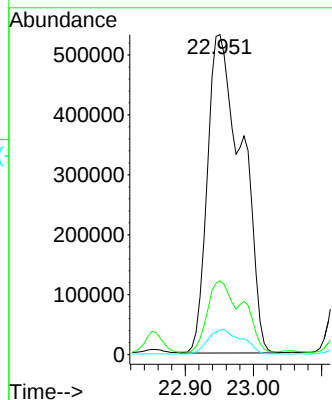
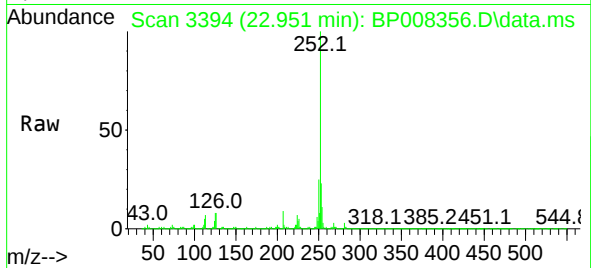




#88
Benzo(b)fluoranthene
Concen: 74.926 ng
RT: 22.951 min Scan# 31
Delta R.T. 0.006 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

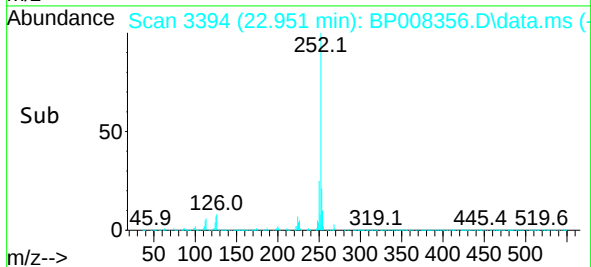
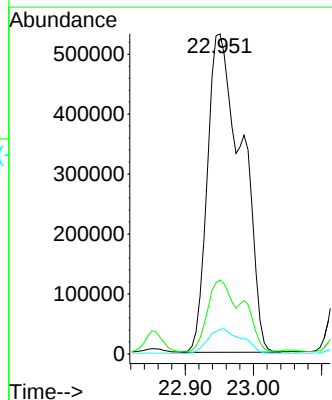
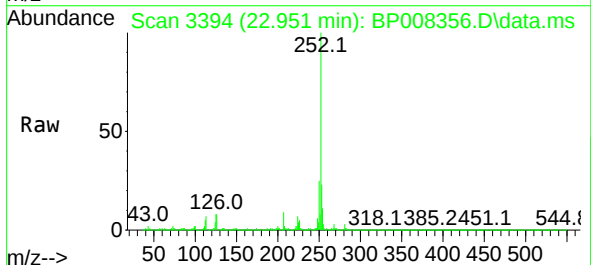
Instrument :
BNA_P
ClientSampleId :
P3-COMP

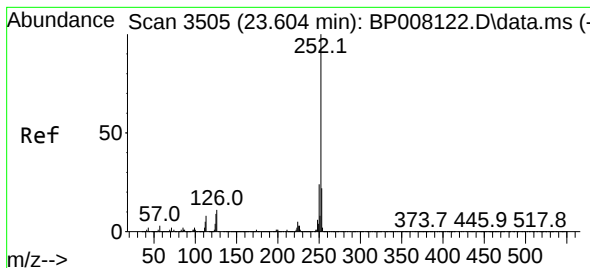
Tgt Ion:252 Resp: 1874867
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 7.7 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 76.533 ng
RT: 22.951 min Scan# 3394
Delta R.T. -0.047 min
Lab File: BP008356.D
Acq: 10 Dec 2021 23:56

Tgt Ion:252 Resp: 1874867
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 7.7 6.5 9.7





#90

Benzo(a)pyrene

Concen: 27.799 ng

RT: 23.457 min Scan# 34

Delta R.T. -0.112 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP

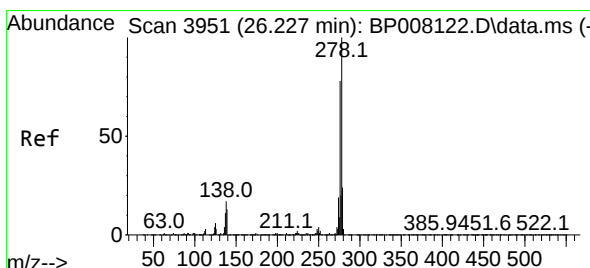
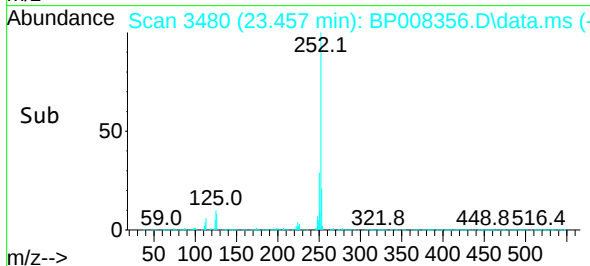
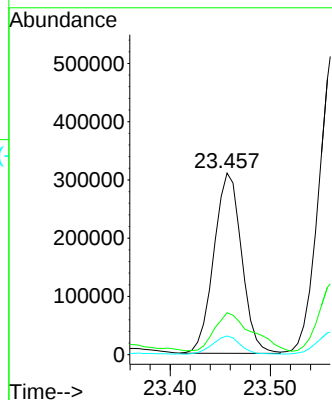
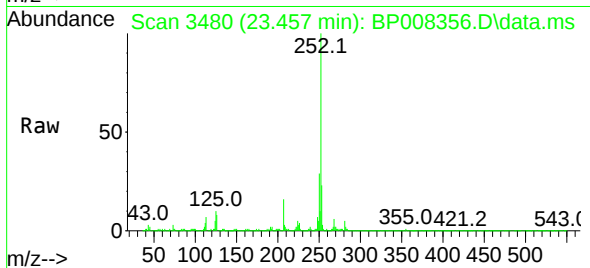
Tgt Ion:252 Resp: 594522

Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 10.3 7.4 11.0



#91

Dibenzo(a,h)anthracene

Concen: 8.329 ng

RT: 26.151 min Scan# 3938

Delta R.T. -0.018 min

Lab File: BP008356.D

Acq: 10 Dec 2021 23:56

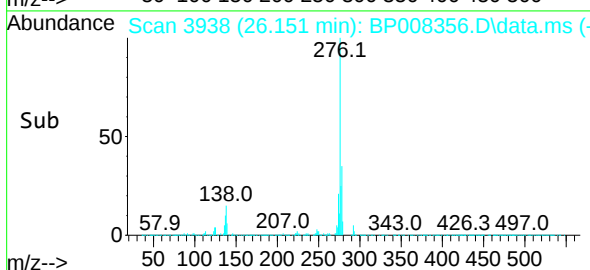
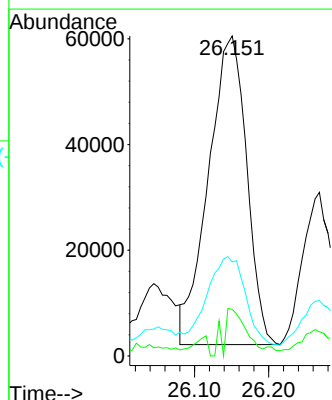
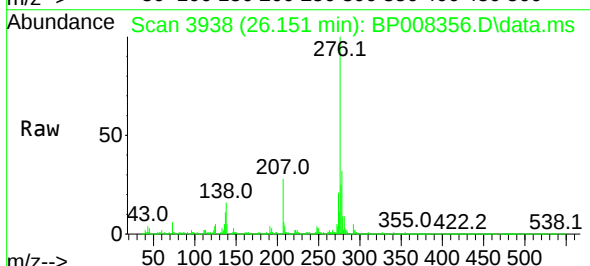
Tgt Ion:278 Resp: 208870

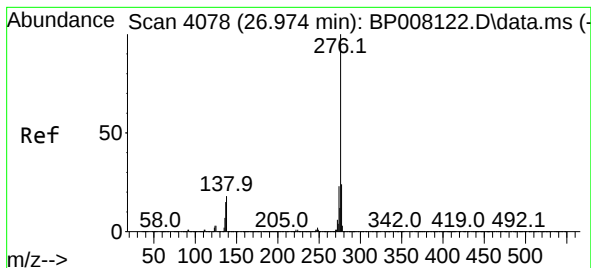
Ion Ratio Lower Upper

278 100

139 14.6 10.8 16.2

279 29.4 19.1 28.7#





#92

Benzo(g,h,i)perylene

Concen: 18.182 ng

RT: 26.910 min Scan# 4067

Delta R.T. -0.012 min

Lab File: BP008356.D

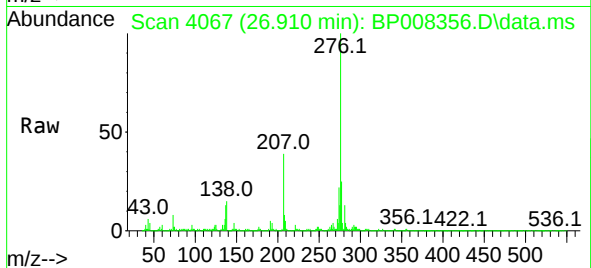
Acq: 10 Dec 2021 23:56

Instrument :

BNA_P

ClientSampleId :

P3-COMP



Tgt Ion:276 Resp: 460022

Ion Ratio Lower Upper

276 100

277 25.0 20.0 30.0

138 15.5 14.1 21.1

