

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121721\
 Data File : BM033502.D
 Acq On : 17 Dec 2021 12:33
 Operator : CG/JU
 Sample : M5089-14
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 17 13:02:18 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121621.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 16 17:10:15 2021
 Response via : Initial Calibration

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

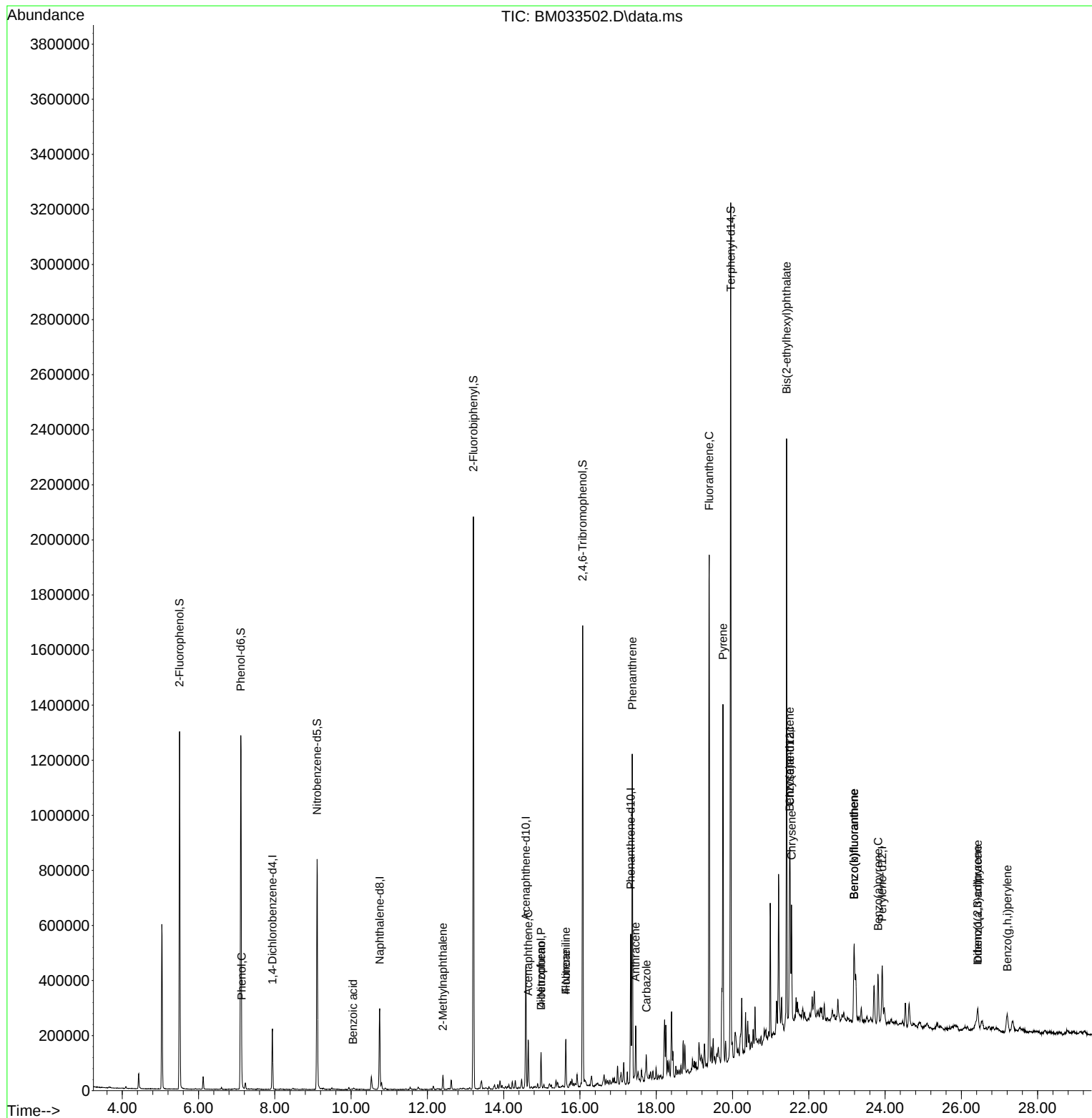
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	49681	20.000	ng	0.00
21) Naphthalene-d8	10.748	136	214025	20.000	ng	0.00
39) Acenaphthene-d10	14.583	164	146678	20.000	ng	0.00
64) Phenanthrene-d10	17.330	188	297143	20.000	ng	0.00
76) Chrysene-d12	21.506	240	193722	20.000	ng	0.00
86) Perylene-d12	23.924	264	158447	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.501	112	433937	150.717	ng	0.00
7) Phenol-d6	7.107	99	595439	154.106	ng	0.00
23) Nitrobenzene-d5	9.107	82	453639	91.009	ng	0.00
42) 2,4,6-Tribromophenol	16.071	330	223011	135.161	ng	0.00
45) 2-Fluorobiphenyl	13.207	172	935163	88.194	ng	0.00
79) Terphenyl-d14	19.953	244	1287103	104.600	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.384	88	114	Below Cal	#	1
9) Benzaldehyde	7.113	77	2337	Below Cal	#	7
10) Phenol	7.131	94	8999	2.305	ng	# 41
32) Benzoic acid	10.048	122	180	3.049	ng	# 25
37) 2-Methylnaphthalene	12.407	142	21767	2.714	ng	93
52) Acenaphthene	14.642	154	56878	7.041	ng	97
55) Dibenzofuran	14.983	168	64125	4.684	ng	94
56) 4-Nitrophenol	14.977	139	28231	21.070	ng	# 1
58) Fluorene	15.630	166	69510	6.326	ng	97
62) 4-Nitroaniline	15.630	138	1041	3.049	ng	# 7
71) Phenanthrene	17.371	178	639947	38.696	ng	99
72) Anthracene	17.459	178	118833	7.350	ng	98
73) Carbazole	17.742	167	50100	3.510	ng	98
75) Fluoranthene	19.389	202	1046795	55.024	ng	97
78) Pyrene	19.748	202	767244	50.196	ng	99
81) Benzo(a)anthracene	21.495	228	226902	17.476	ng	96
83) Chrysene	21.547	228	234097	18.726	ng	98
84) Bis(2-ethylhexyl)phtha...	21.418	149	648612	64.691	ng	99
87) Indeno(1,2,3-cd)pyrene	26.424	276	77611	10.624	ng	# 93
88) Benzo(b)fluoranthene	23.189	252	292118	28.751	ng	97
89) Benzo(k)fluoranthene	23.189	252	292118	28.424	ng	98
90) Benzo(a)pyrene	23.818	252	126073	16.581	ng	97
91) Dibenzo(a,h)anthracene	26.430	278	23209	4.236	ng	# 77
92) Benzo(g,h,i)perylene	27.206	276	81755	11.603	ng	97

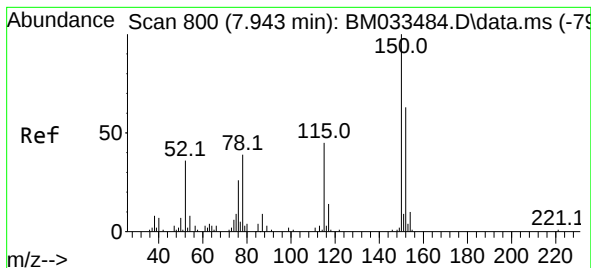
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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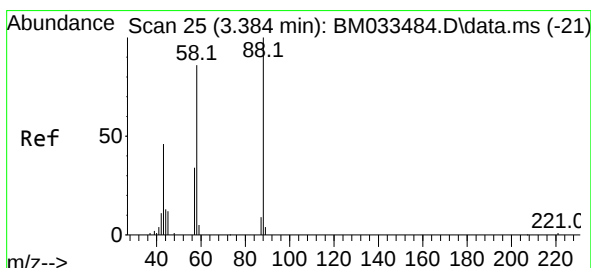
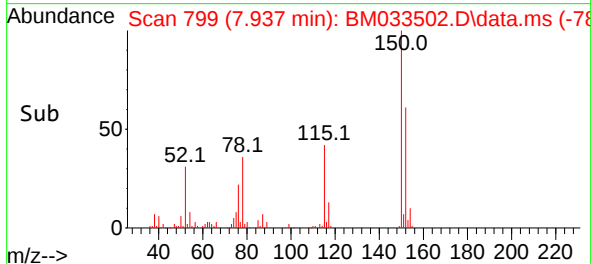
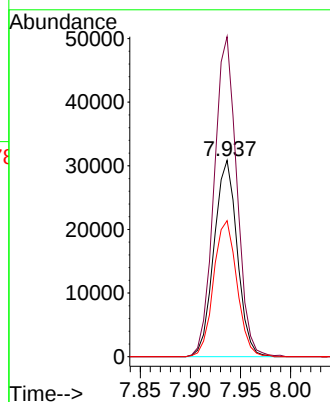
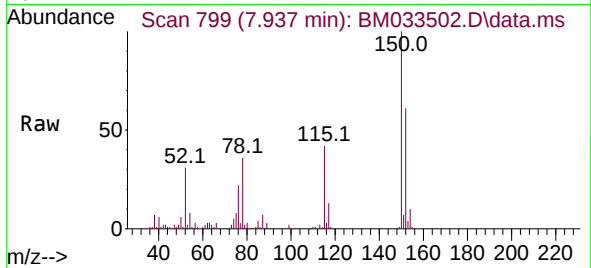




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

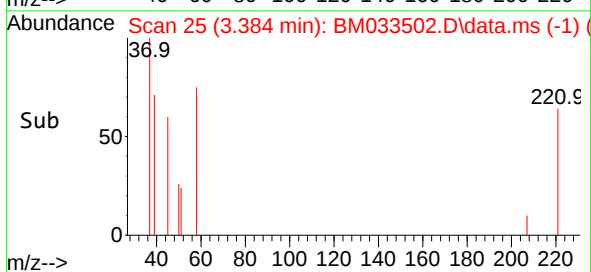
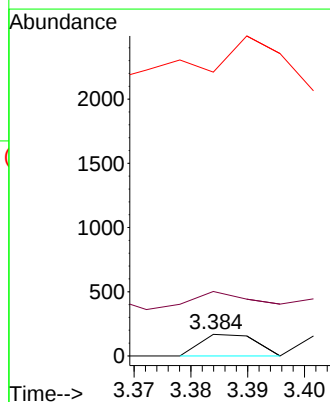
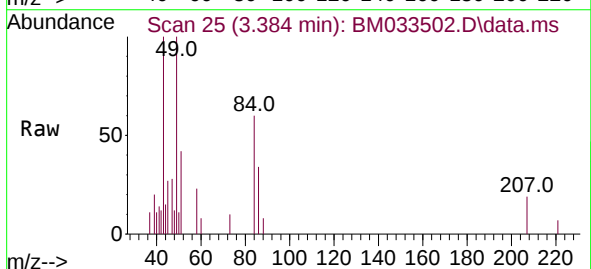
Instrument :
BNA_M
ClientSampleId :

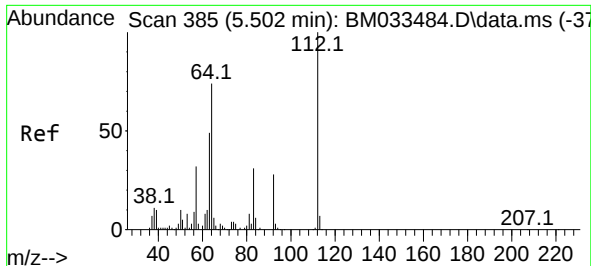
Tgt Ion:152 Resp: 49681
Ion Ratio Lower Upper
152 100
150 163.0 128.9 193.3
115 69.3 53.0 79.6



#2
1,4-Dioxane
Concen: Below Cal
RT: 3.384 min Scan# 25
Delta R.T. -0.000 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
58 171.9 67.0 100.4#
43 759.6 31.6 47.4#

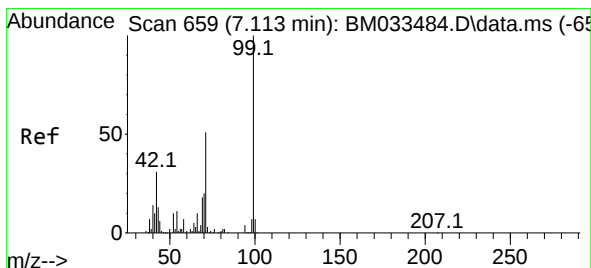
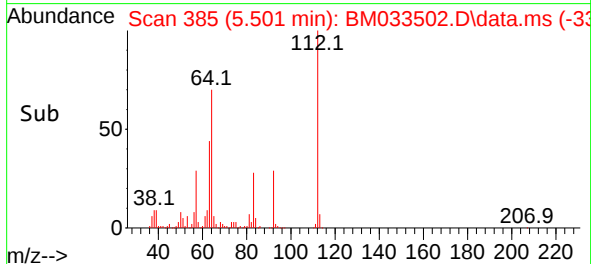
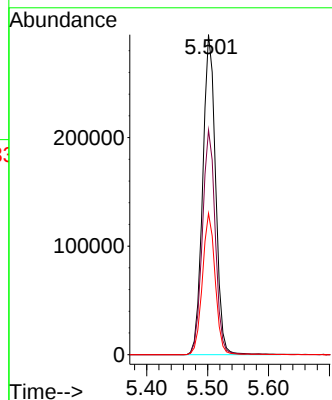
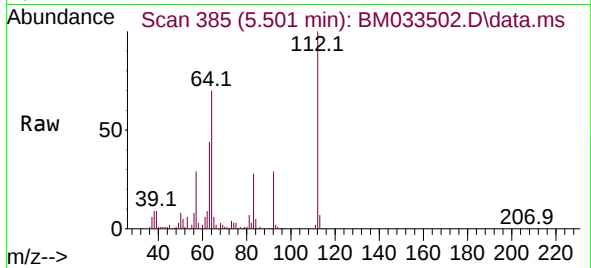




#5
2-Fluorophenol
Concen: 150.717 ng
RT: 5.501 min Scan# 385
Delta R.T. -0.001 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

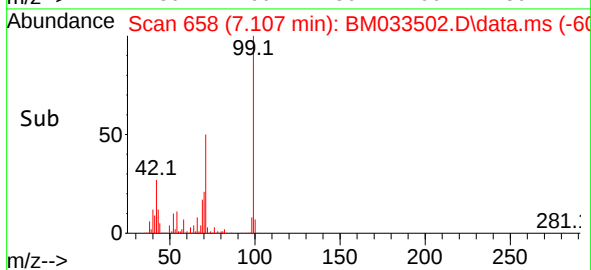
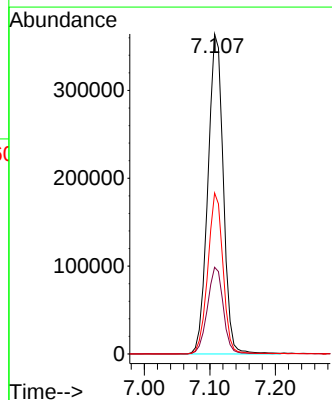
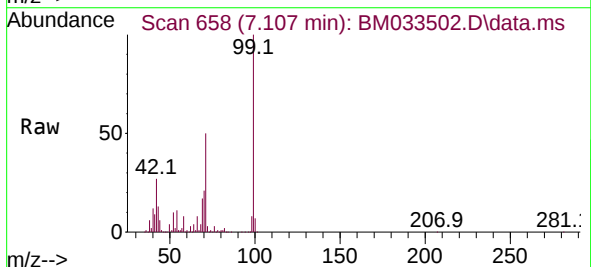
Instrument :
BNA_M
ClientSampleId :

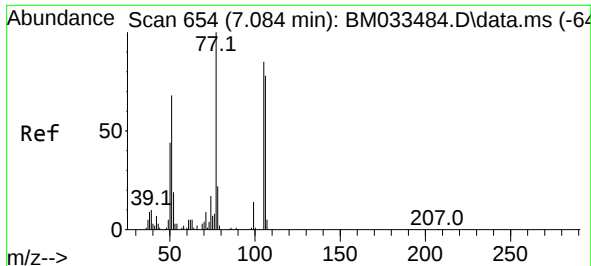
Tgt Ion:112 Resp: 433937
Ion Ratio Lower Upper
112 100
64 70.2 55.5 83.3
63 44.2 31.3 46.9



#7
Phenol-d6
Concen: 154.106 ng
RT: 7.107 min Scan# 658
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion: 99 Resp: 595439
Ion Ratio Lower Upper
99 100
42 27.1 20.3 30.5
71 50.3 34.5 51.7

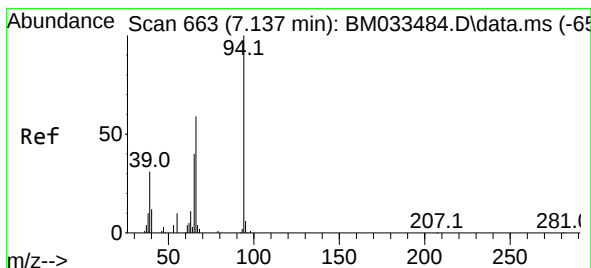
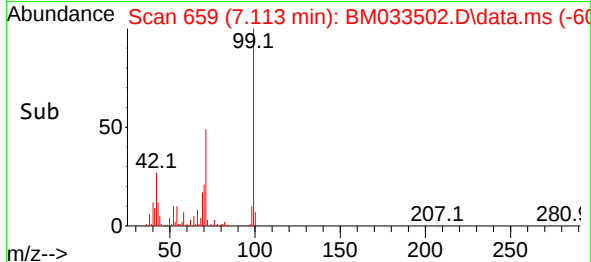
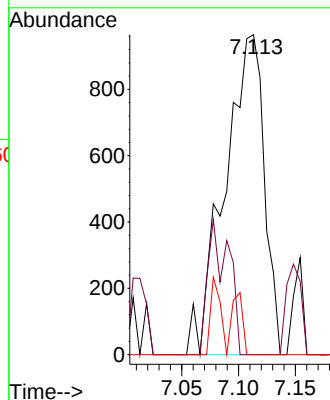
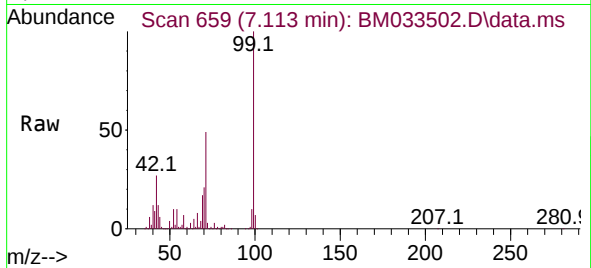




#9
Benzaldehyde
Concen: Below Cal
RT: 7.113 min Scan# 61
Delta R.T. 0.029 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

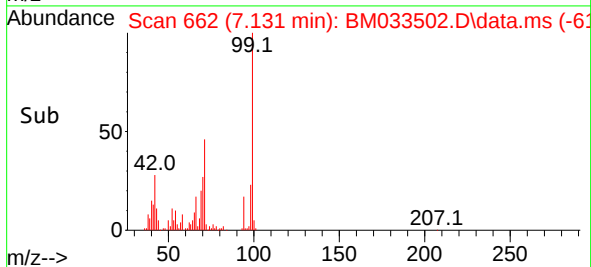
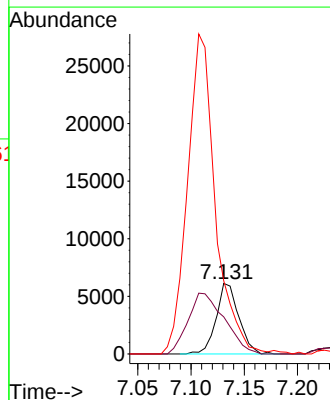
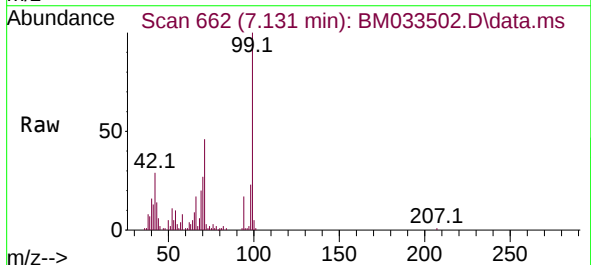
Instrument :
BNA_M
ClientSampleId :

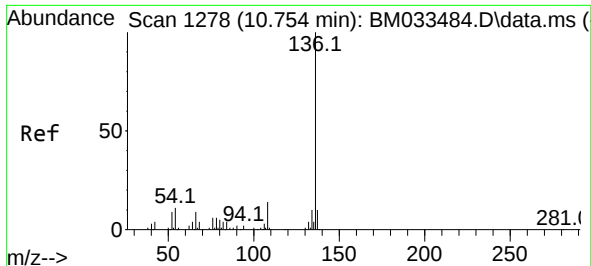
Tgt Ion: 77 Resp: 2337
Ion Ratio Lower Upper
77 100
105 0.0 67.1 107.1#
106 0.0 64.3 104.3#



#10
Phenol
Concen: 2.305 ng
RT: 7.131 min Scan# 662
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion: 94 Resp: 8999
Ion Ratio Lower Upper
94 100
65 52.6 15.5 55.5
66 103.8 28.5 68.5#

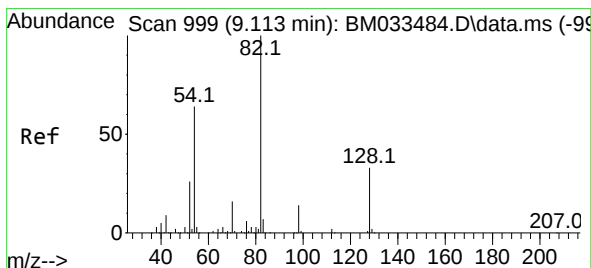
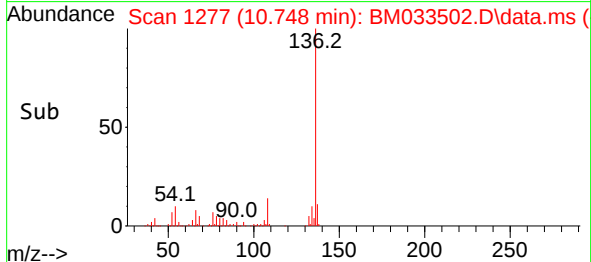
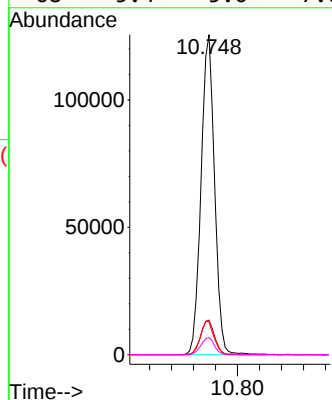
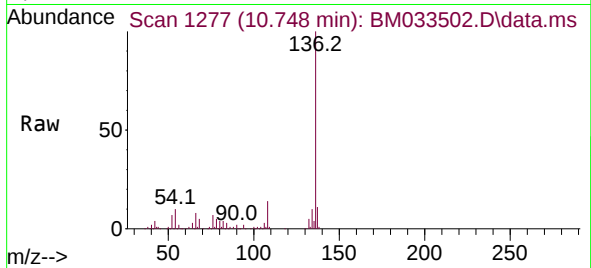




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

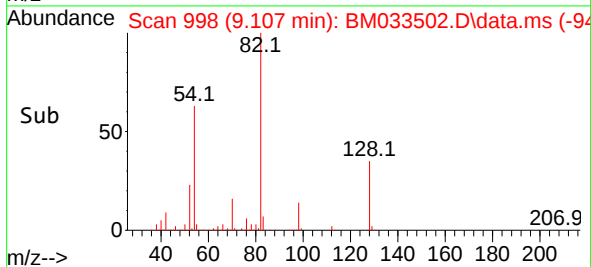
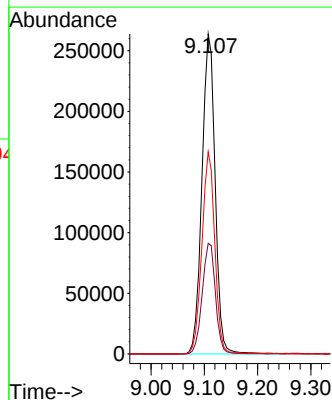
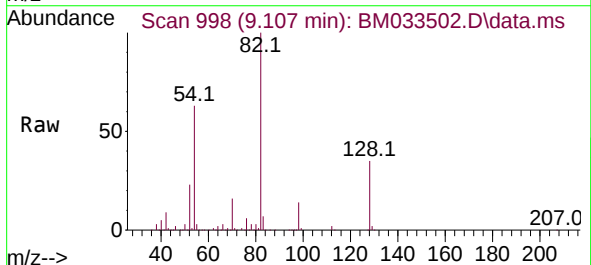
Instrument :
BNA_M
ClientSampleId :

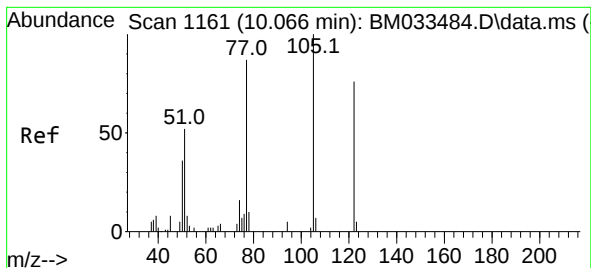
Tgt Ion:	136	Resp:	214025
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.6	13.0
54	10.2	8.3	12.5
68	5.4	5.0	7.6



#23
Nitrobenzene-d5
Concen: 91.009 ng
RT: 9.107 min Scan# 998
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion:	82	Resp:	453639
Ion Ratio	Lower	Upper	
82	100		
128	34.6	28.1	42.1
54	63.2	46.1	69.1





#32

Benzoic acid

Concen: 3.049 ng

RT: 10.048 min Scan# 1161

Delta R.T. -0.018 min

Lab File: BM033502.D

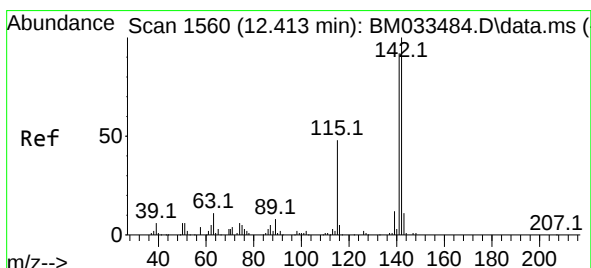
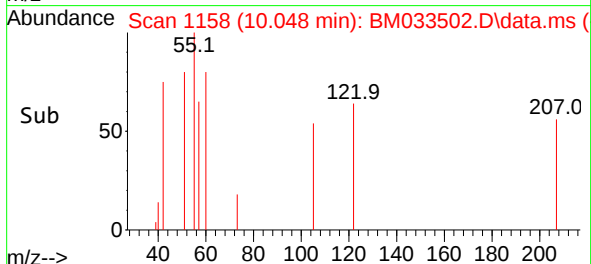
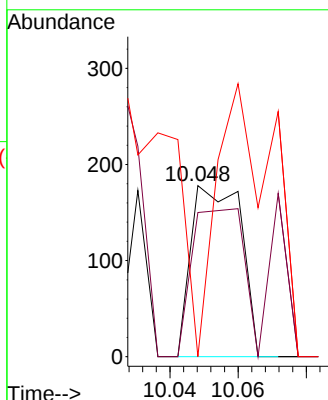
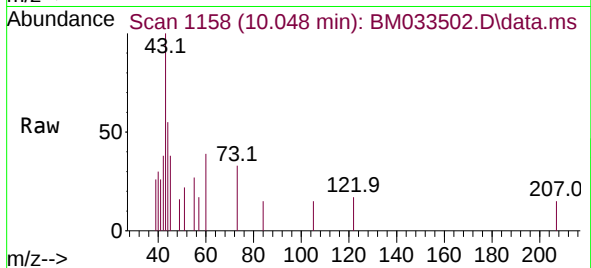
Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

Tgt Ion:	122	Resp:	180
Ion	Ratio	Lower	Upper
122	100		
105	84.3	119.6	159.6#
77	0.0	101.0	141.0#



#37

2-Methylnaphthalene

Concen: 2.714 ng

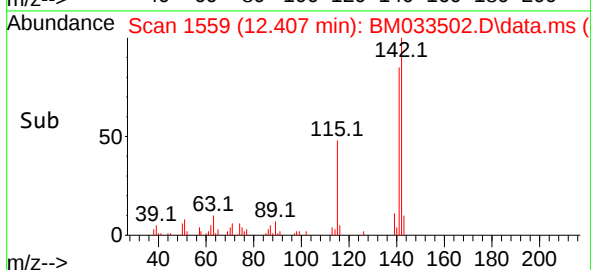
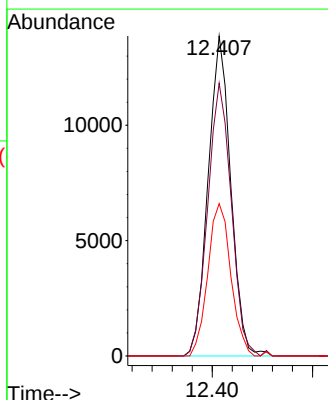
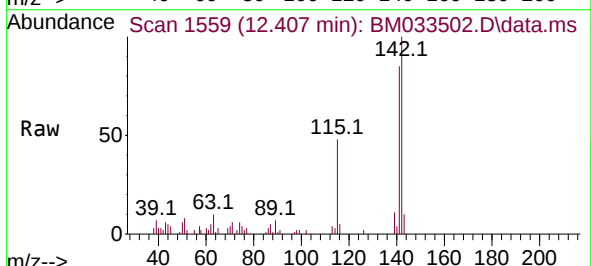
RT: 12.407 min Scan# 1559

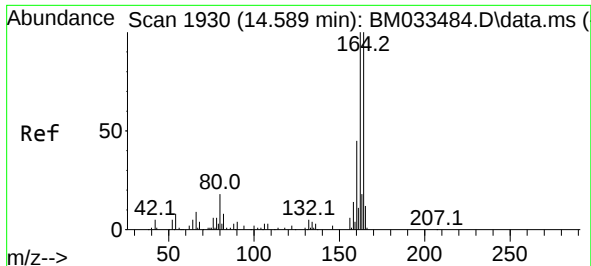
Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Tgt Ion:	142	Resp:	21767
Ion	Ratio	Lower	Upper
142	100		
141	85.3	72.2	108.2
115	47.6	33.0	49.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.583 min Scan# 1930

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

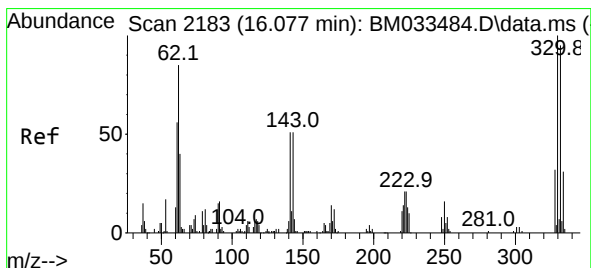
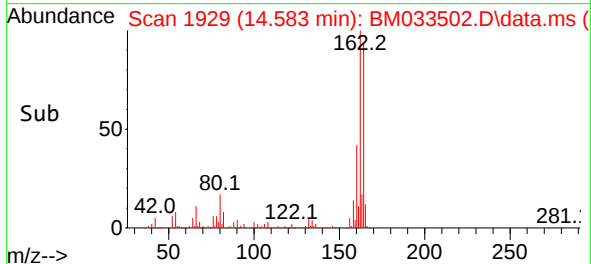
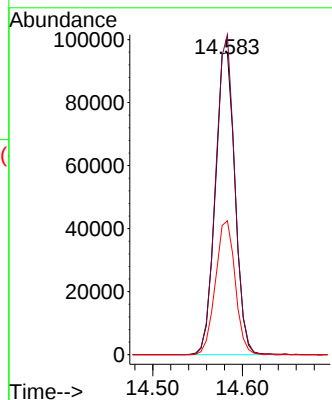
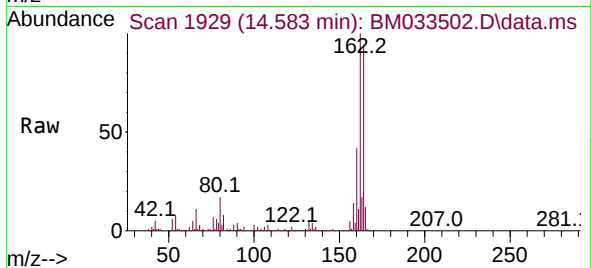
Tgt Ion:164 Resp: 146678

Ion Ratio Lower Upper

164 100

162 105.9 79.7 119.5

160 44.3 34.2 51.4



#42

2,4,6-Tribromophenol

Concen: 135.161 ng

RT: 16.071 min Scan# 2182

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

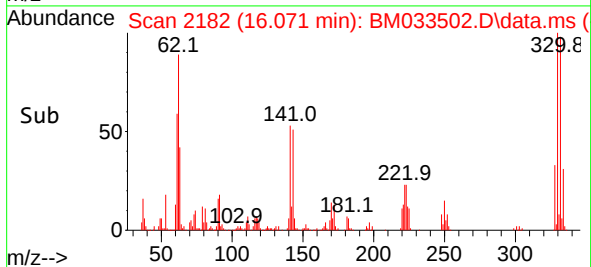
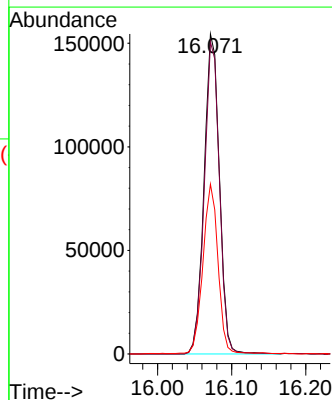
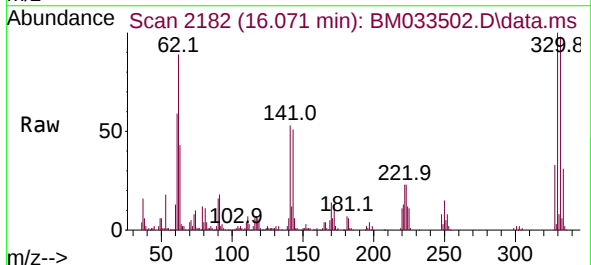
Tgt Ion:330 Resp: 223011

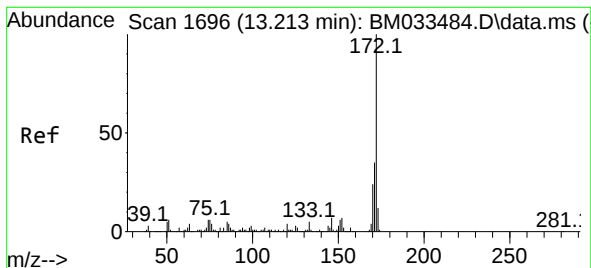
Ion Ratio Lower Upper

330 100

332 96.3 76.5 114.7

141 51.6 35.9 53.9





#45

2-Fluorobiphenyl

Concen: 88.194 ng

RT: 13.207 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

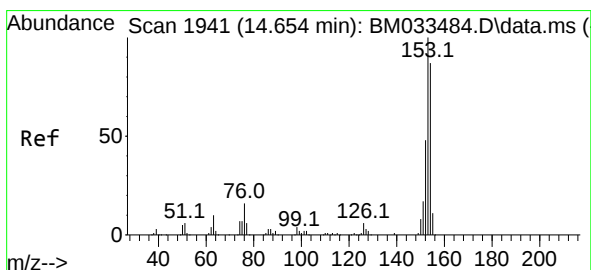
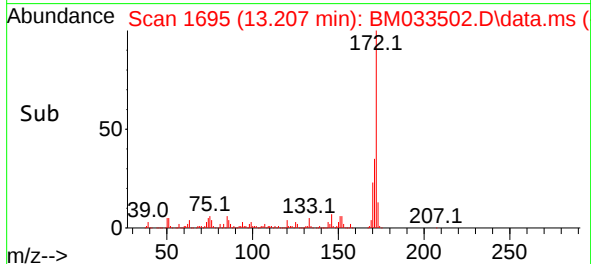
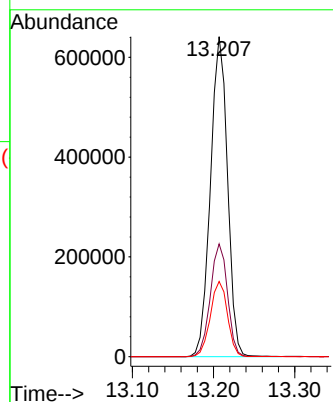
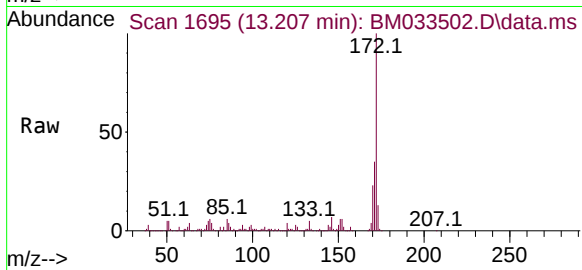
Tgt Ion:172 Resp: 935163

Ion Ratio Lower Upper

172 100

171 35.2 27.2 40.8

170 23.5 18.7 28.1



#52

Acenaphthene

Concen: 7.041 ng

RT: 14.642 min Scan# 1939

Delta R.T. -0.012 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

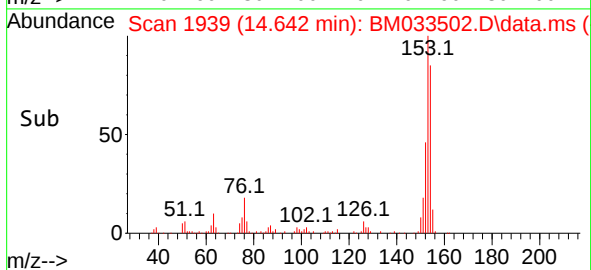
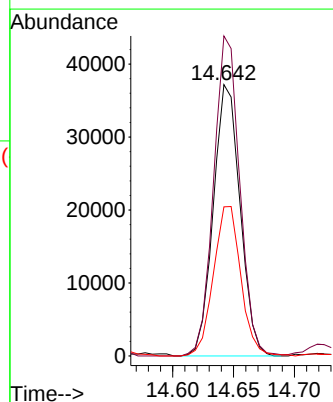
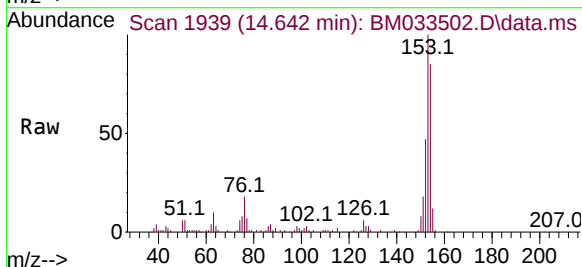
Tgt Ion:154 Resp: 56878

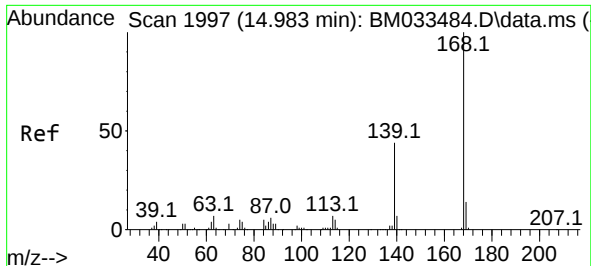
Ion Ratio Lower Upper

154 100

153 117.9 90.2 135.4

152 55.0 43.5 65.3

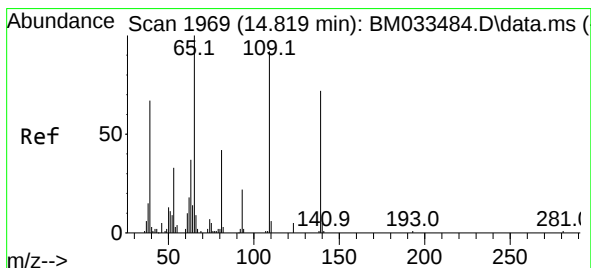
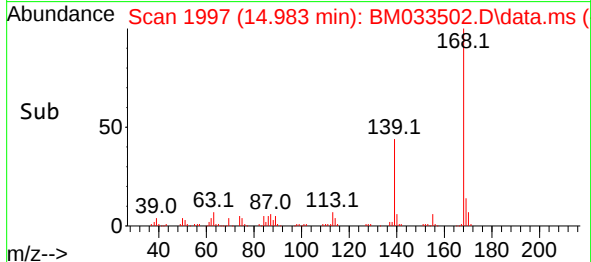
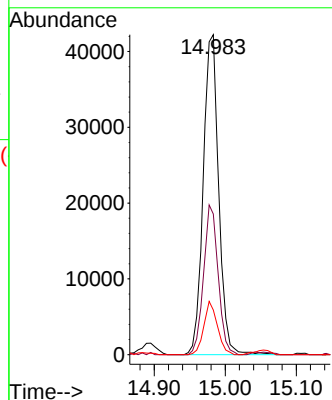
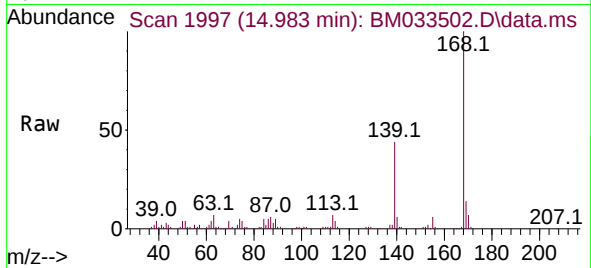




#55
Dibenzofuran
Concen: 4.684 ng
RT: 14.983 min Scan# 1997
Delta R.T. -0.000 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

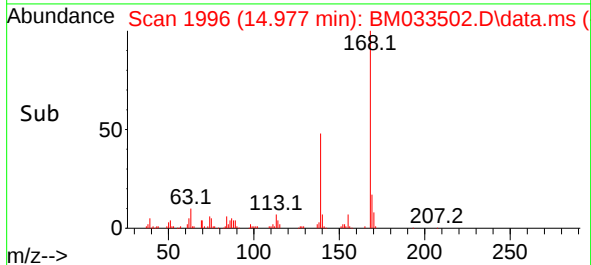
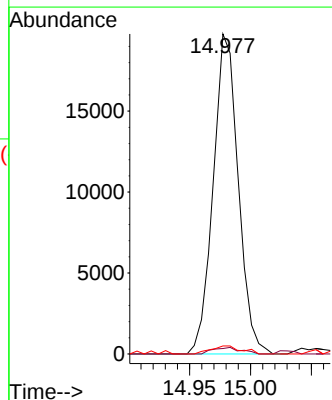
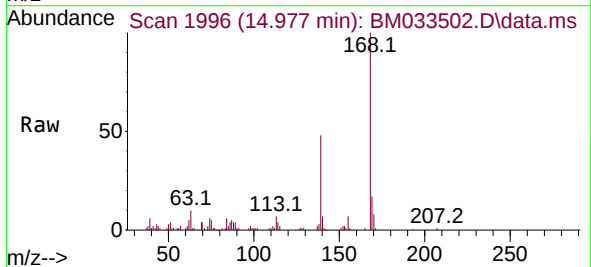
Instrument :
BNA_M
ClientSampleId :

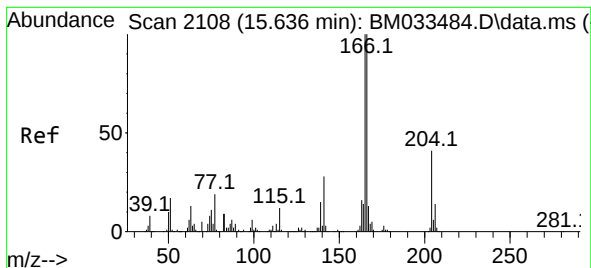
Tgt Ion:168 Resp: 64125
Ion Ratio Lower Upper
168 100
139 44.0 31.4 47.2
169 14.0 10.6 15.8



#56
4-Nitrophenol
Concen: 21.070 ng
RT: 14.977 min Scan# 1996
Delta R.T. 0.158 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion:139 Resp: 28231
Ion Ratio Lower Upper
139 100
109 1.7 75.3 115.3#
65 2.5 107.4 147.4#





#58

Fluorene

Concen: 6.326 ng

RT: 15.630 min Scan# 2107

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

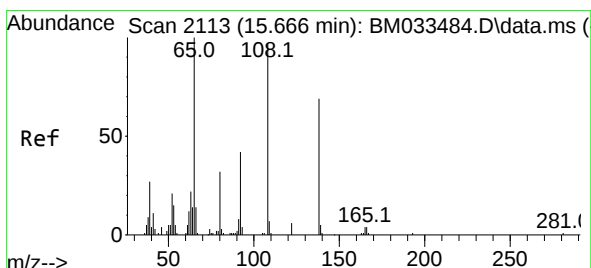
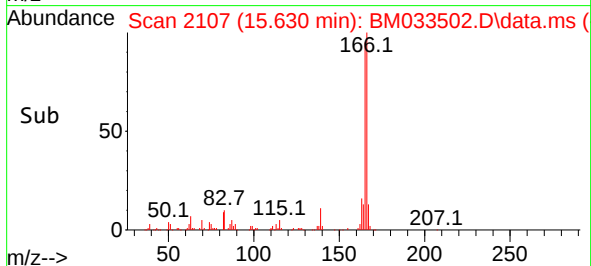
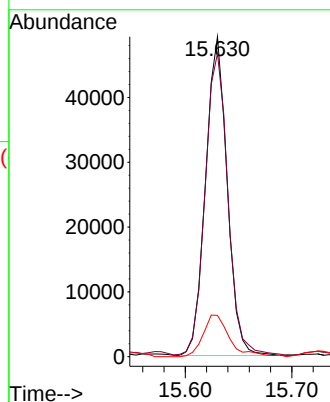
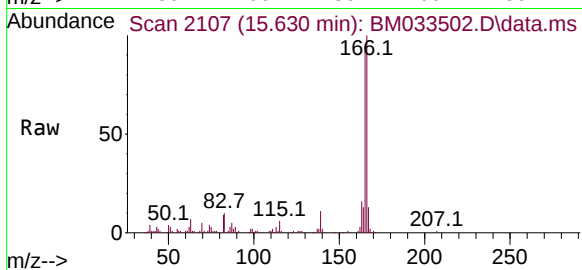
Tgt Ion:166 Resp: 69510

Ion Ratio Lower Upper

166 100

165 94.8 78.1 117.1

167 12.9 10.6 15.8



#62

4-Nitroaniline

Concen: 3.049 ng

RT: 15.630 min Scan# 2107

Delta R.T. -0.036 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

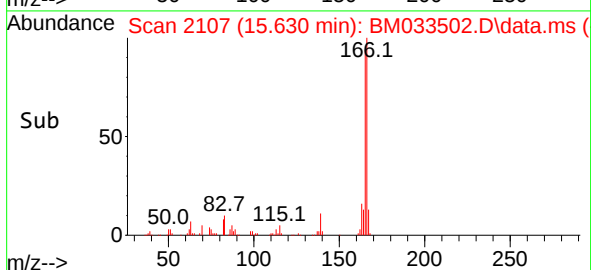
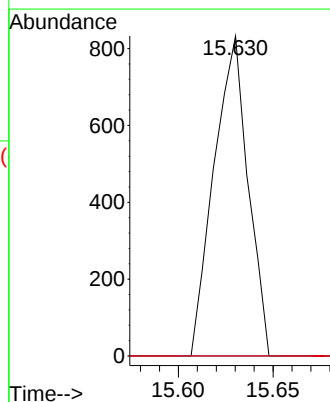
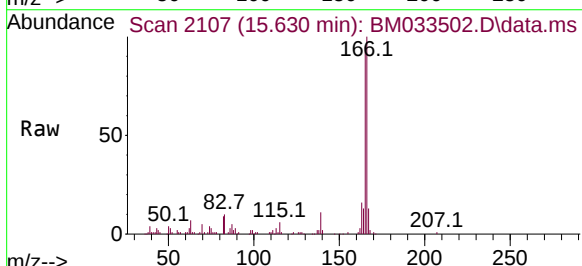
Tgt Ion:138 Resp: 1041

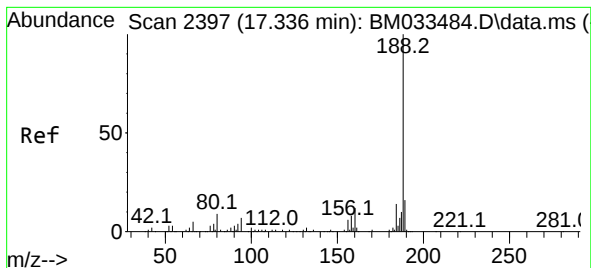
Ion Ratio Lower Upper

138 100

92 0.0 38.7 78.7#

108 0.0 81.9 121.9#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.330 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

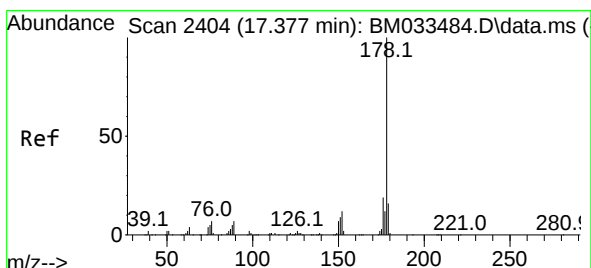
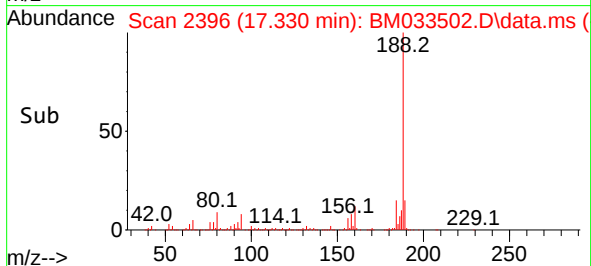
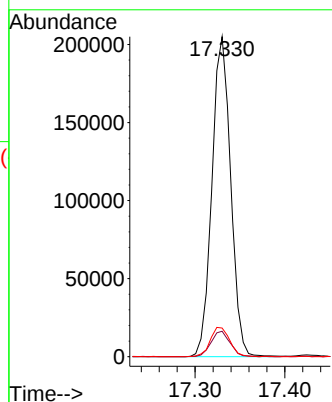
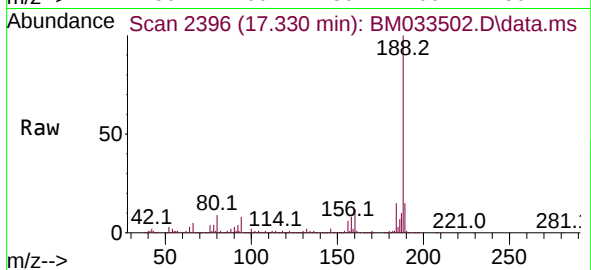
Tgt Ion:188 Resp: 297143

Ion Ratio Lower Upper

188 100

94 8.0 7.5 11.3

80 9.0 8.9 13.3



#71

Phenanthrene

Concen: 38.696 ng

RT: 17.371 min Scan# 2403

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

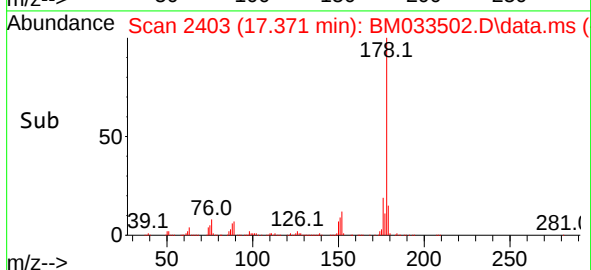
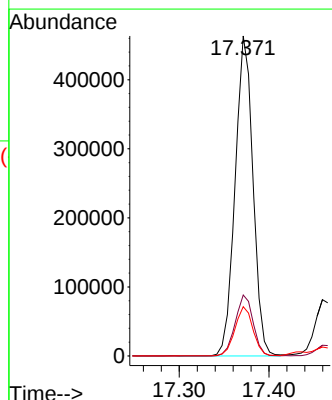
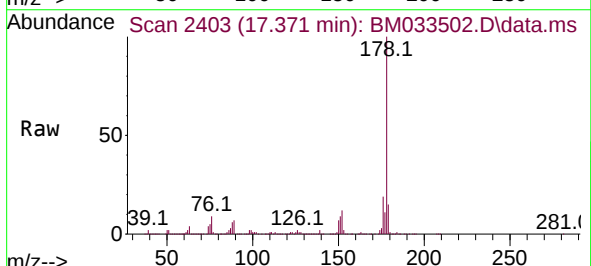
Tgt Ion:178 Resp: 639947

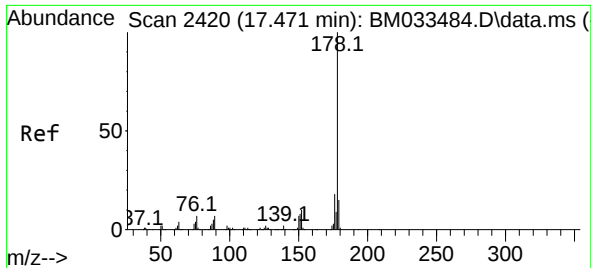
Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 15.4 12.0 18.0

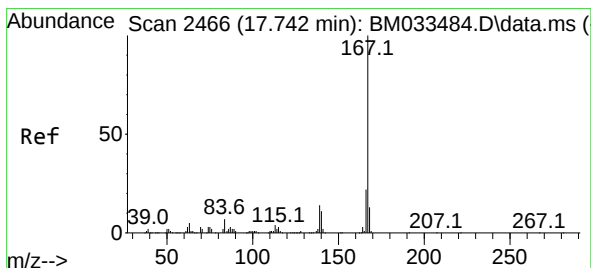
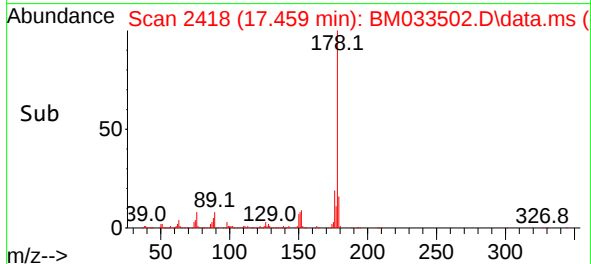
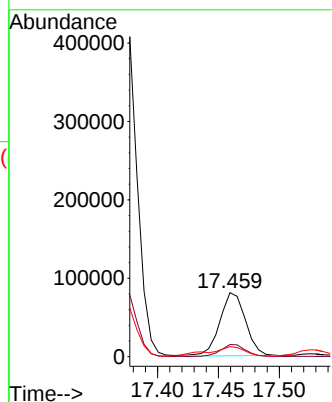
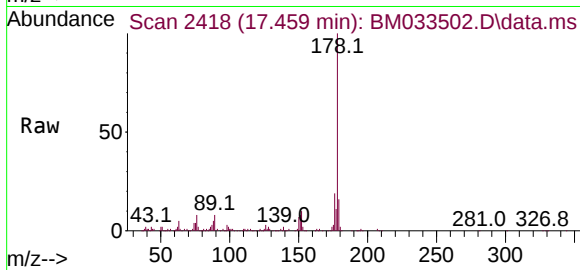




#72
 Anthracene
 Concen: 7.350 ng
 RT: 17.459 min Scan# 2418
 Delta R.T. -0.012 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33

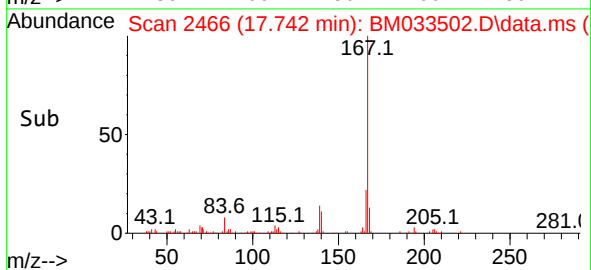
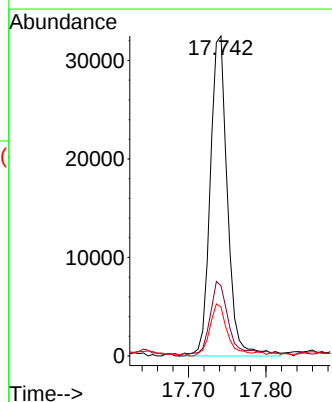
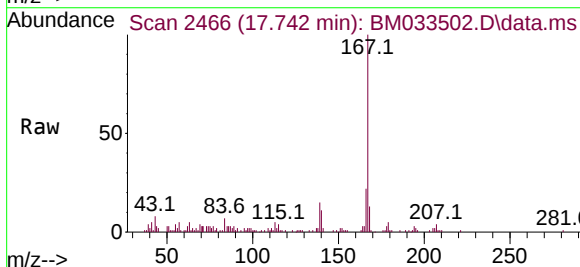
Instrument :
 BNA_M
 ClientSampleId :

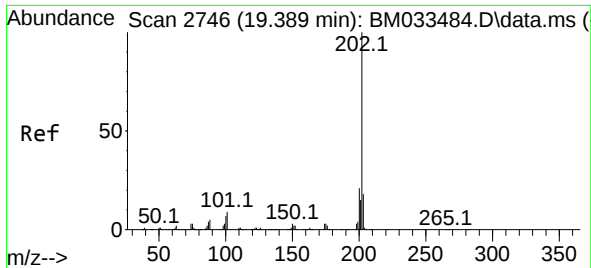
Tgt Ion:178 Resp: 118833
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.5 21.7
 179 15.8 11.9 17.9



#73
 Carbazole
 Concen: 3.510 ng
 RT: 17.742 min Scan# 2466
 Delta R.T. -0.000 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33

Tgt Ion:167 Resp: 50100
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.2 25.8
 139 15.2 11.0 16.4

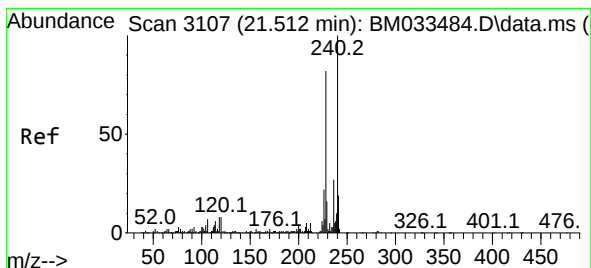
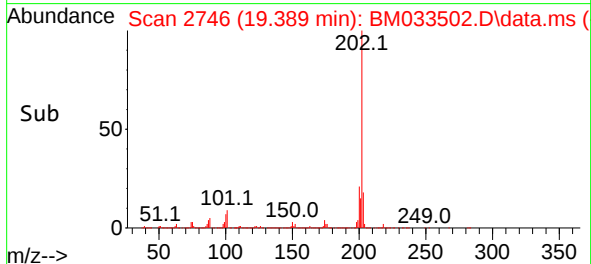
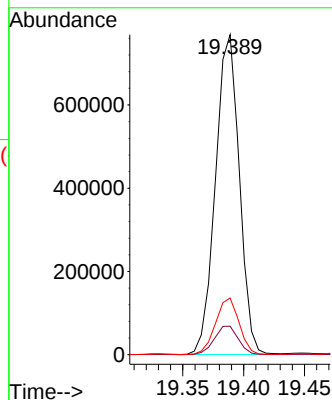
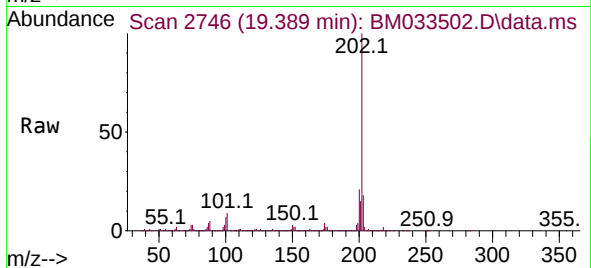




#75
Fluoranthene
Concen: 55.024 ng
RT: 19.389 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

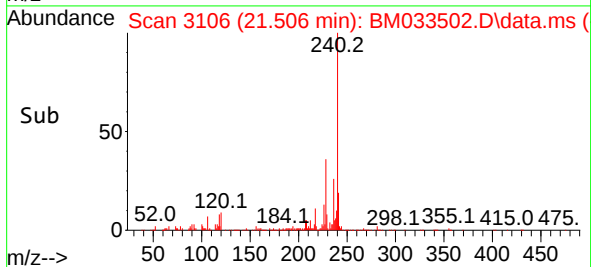
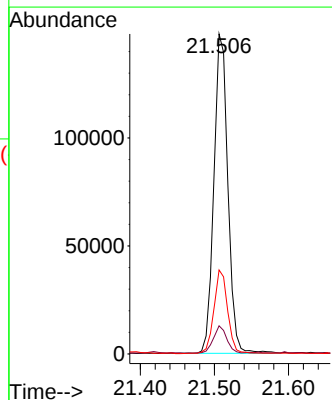
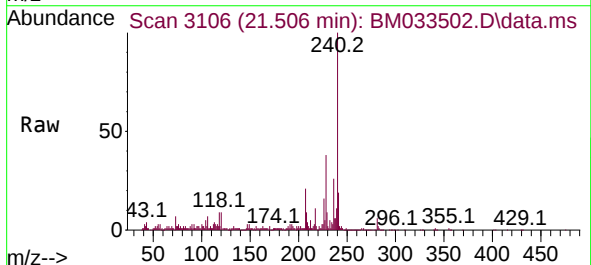
Instrument :
BNA_M
ClientSampleId :

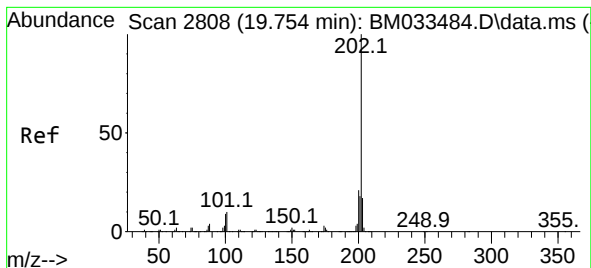
Tgt Ion:202 Resp: 1046795
Ion Ratio Lower Upper
202 100
101 8.9 0.0 30.8
203 17.7 0.0 37.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.506 min Scan# 3106
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion:240 Resp: 193722
Ion Ratio Lower Upper
240 100
120 8.8 7.8 11.6
236 26.3 20.3 30.5





#78

Pyrene

Concen: 50.196 ng

RT: 19.748 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

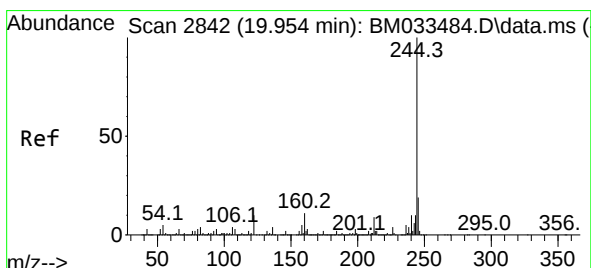
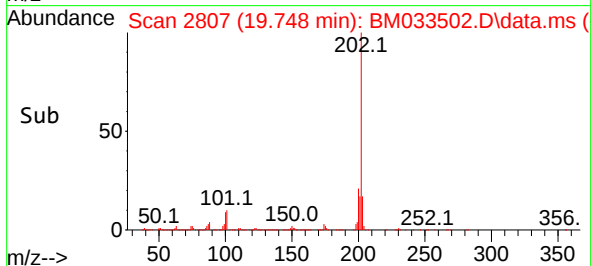
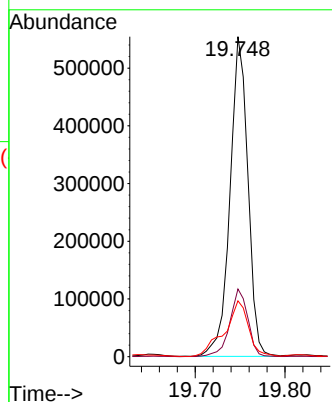
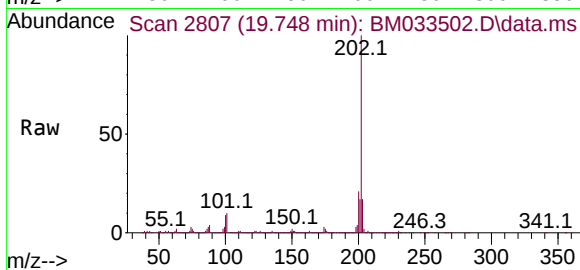
Tgt Ion:202 Resp: 767244

Ion Ratio Lower Upper

202 100

200 21.1 16.4 24.6

203 17.5 13.5 20.3



#79

Terphenyl-d14

Concen: 104.600 ng

RT: 19.953 min Scan# 2842

Delta R.T. -0.001 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

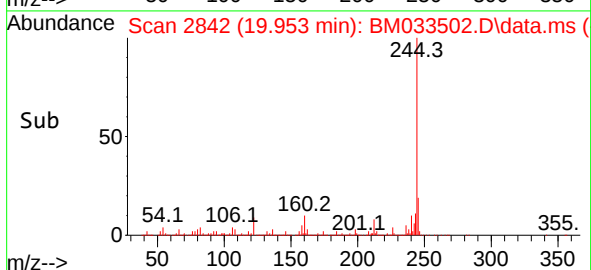
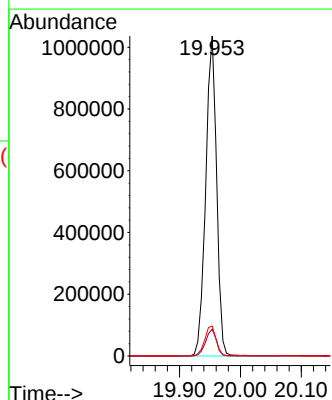
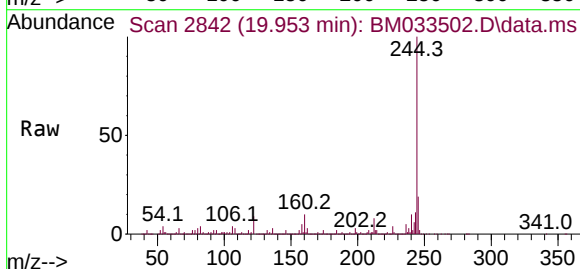
Tgt Ion:244 Resp: 1287103

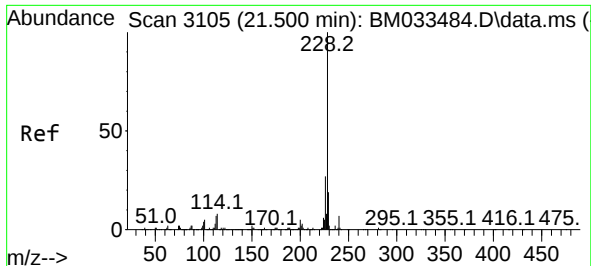
Ion Ratio Lower Upper

244 100

212 8.4 5.9 8.9

122 9.3 8.4 12.6

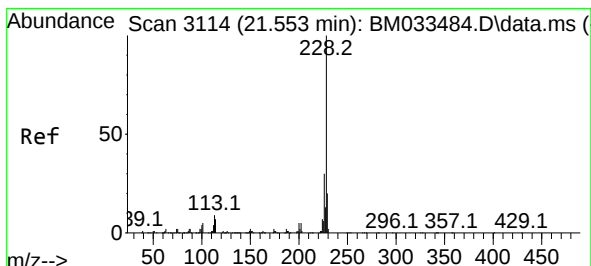
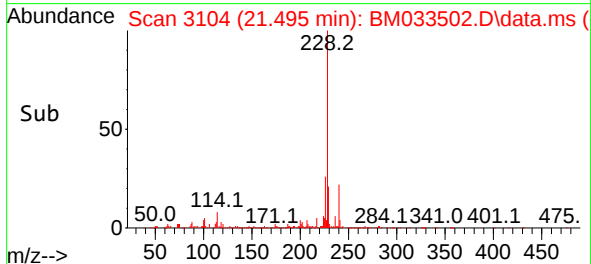
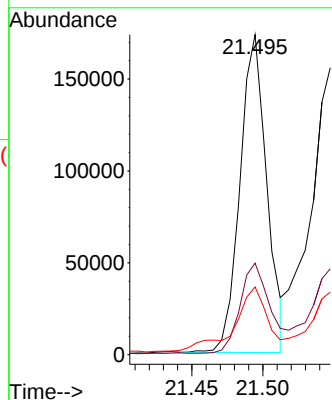
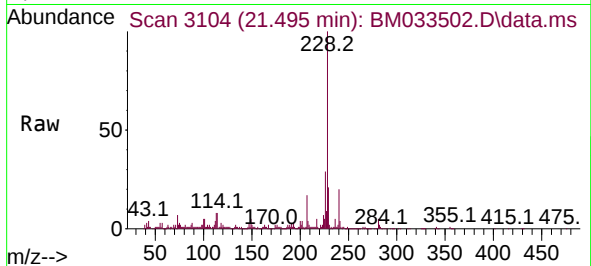




#81
Benzo(a)anthracene
Concen: 17.476 ng
RT: 21.495 min Scan# 3104
Delta R.T. -0.005 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

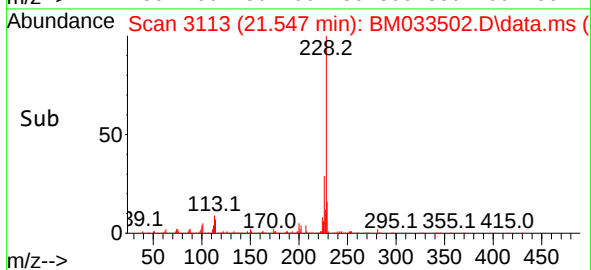
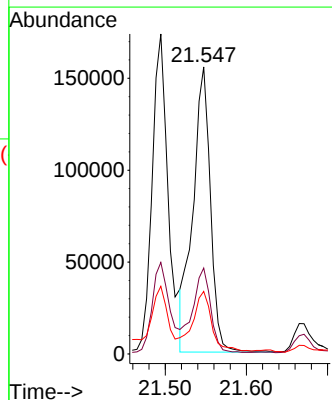
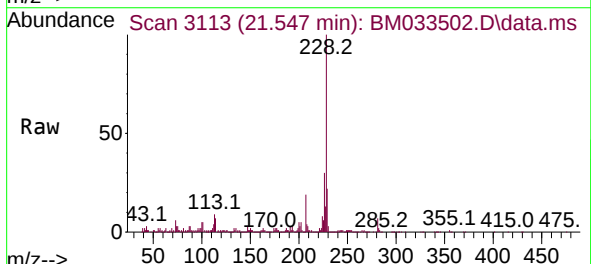
Instrument :
BNA_M
ClientSampleId :

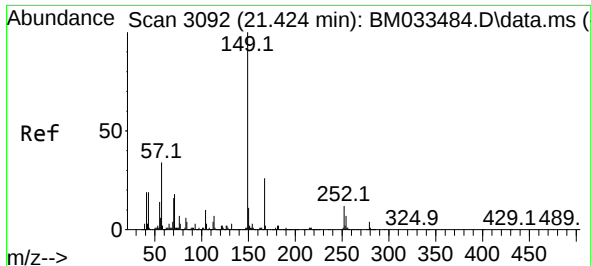
Tgt Ion:228 Resp: 226902
Ion Ratio Lower Upper
228 100
226 28.6 21.0 31.6
229 21.2 15.5 23.3



#83
Chrysene
Concen: 18.726 ng
RT: 21.547 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion:228 Resp: 234097
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.8
229 21.8 15.8 23.8

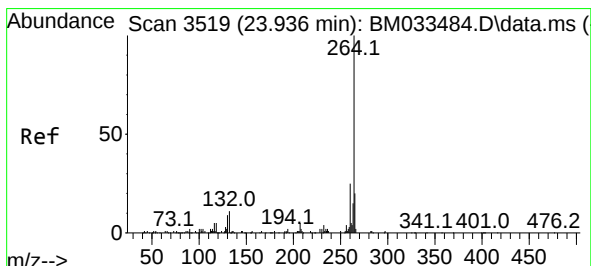
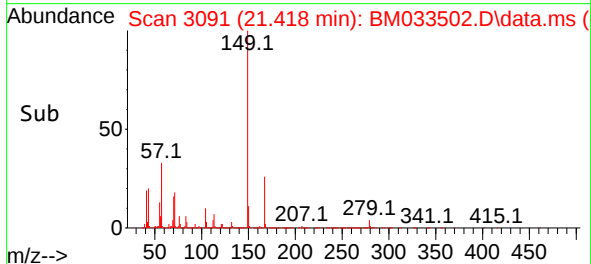
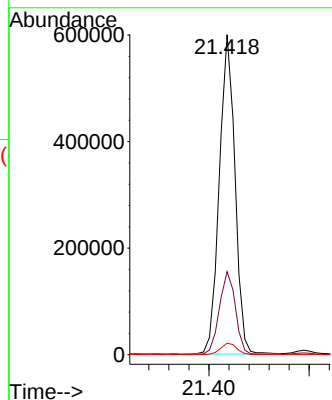
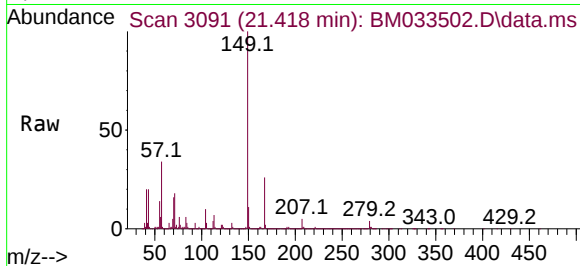




#84
Bis(2-ethylhexyl)phthalate
Concen: 64.691 ng
RT: 21.418 min Scan# 3091
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

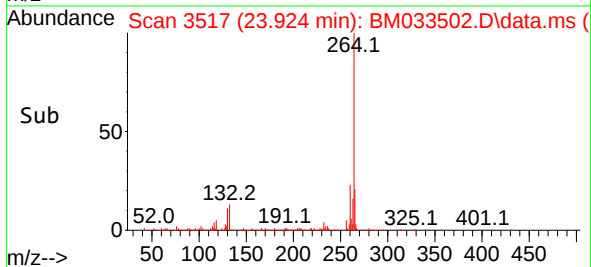
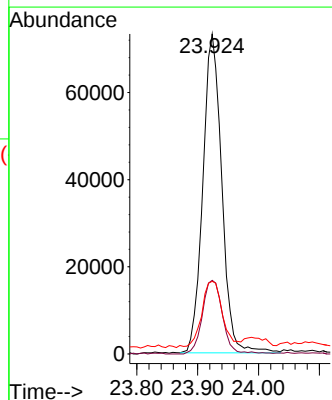
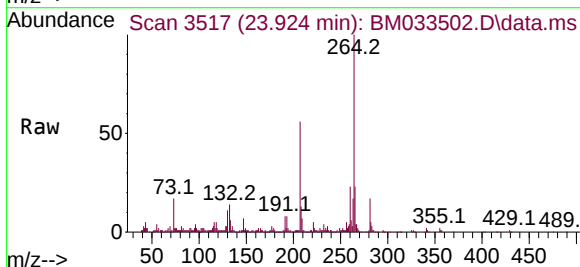
Instrument :
BNA_M
ClientSampleId :

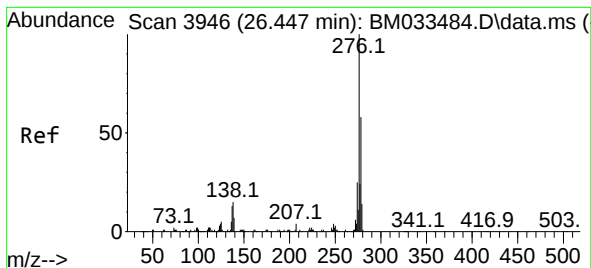
Tgt Ion:149 Resp: 648612
Ion Ratio Lower Upper
149 100
167 25.9 21.4 32.0
279 3.6 3.0 4.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.924 min Scan# 3517
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Tgt Ion:264 Resp: 158447
Ion Ratio Lower Upper
264 100
260 23.0 17.7 26.5
265 22.7 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.624 ng

RT: 26.424 min Scan# 3942

Delta R.T. -0.023 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

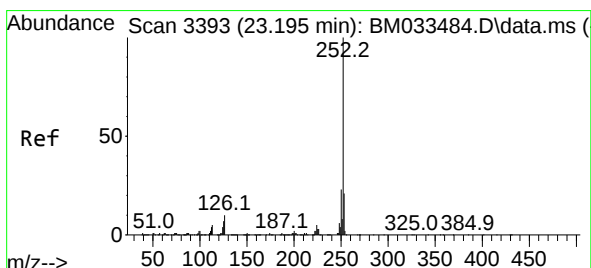
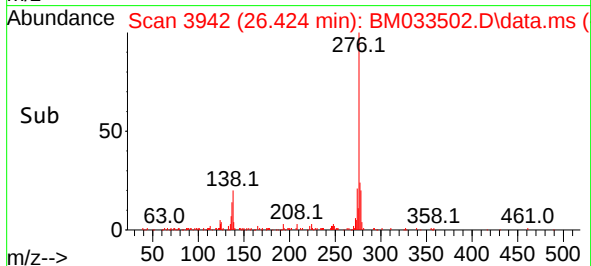
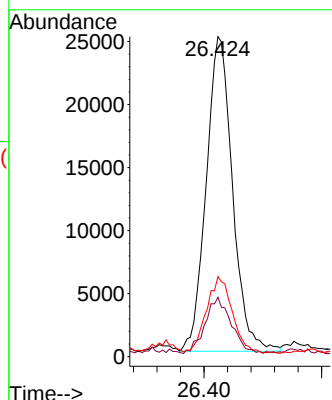
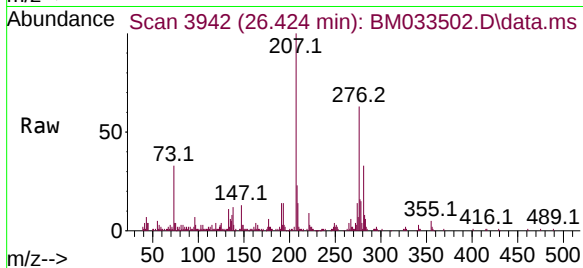
Tgt Ion:276 Resp: 77611

Ion Ratio Lower Upper

276 100

138 17.7 18.7 28.1#

277 23.9 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 28.751 ng

RT: 23.189 min Scan# 3392

Delta R.T. -0.006 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

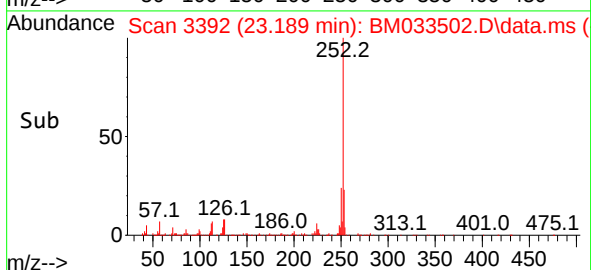
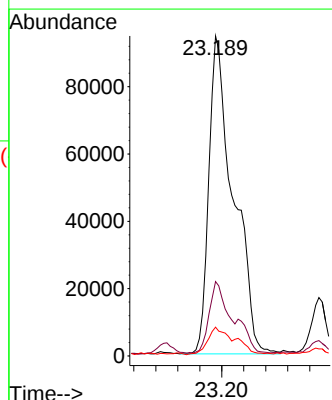
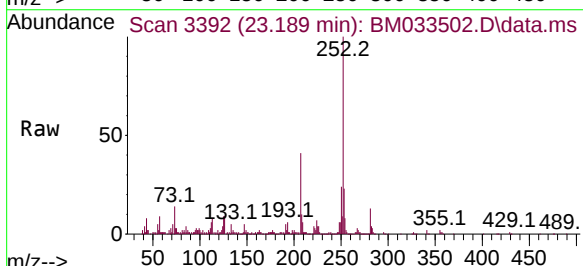
Tgt Ion:252 Resp: 292118

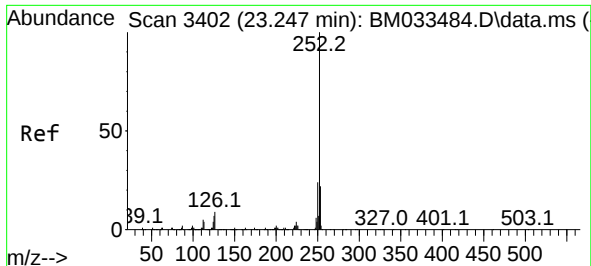
Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

125 9.0 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 28.424 ng

RT: 23.189 min Scan# 31

Delta R.T. -0.058 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

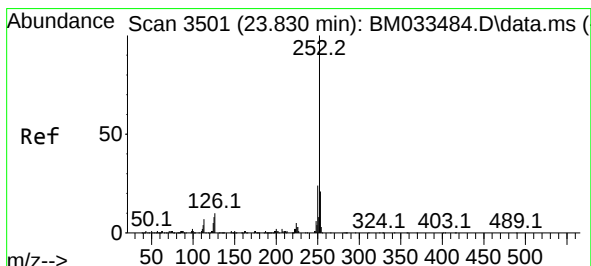
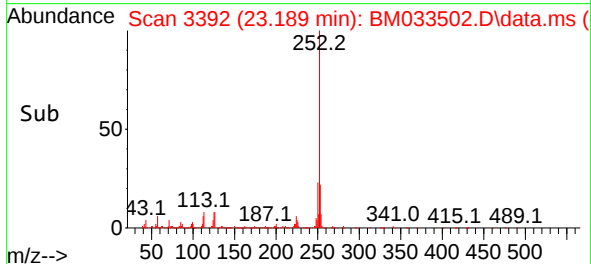
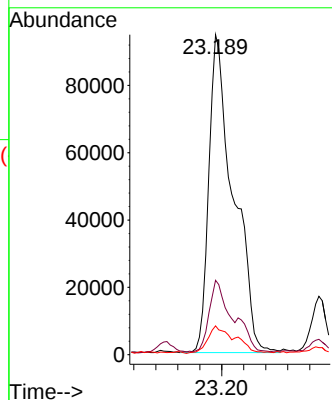
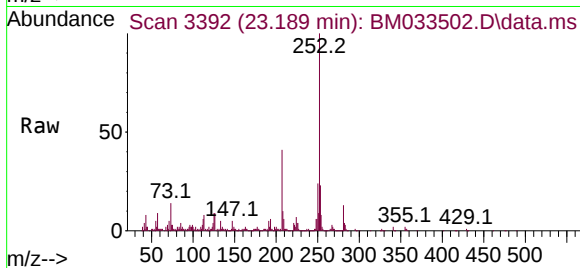
Tgt Ion:252 Resp: 292118

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

125 9.0 8.1 12.1



#90

Benzo(a)pyrene

Concen: 16.581 ng

RT: 23.818 min Scan# 3499

Delta R.T. -0.012 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

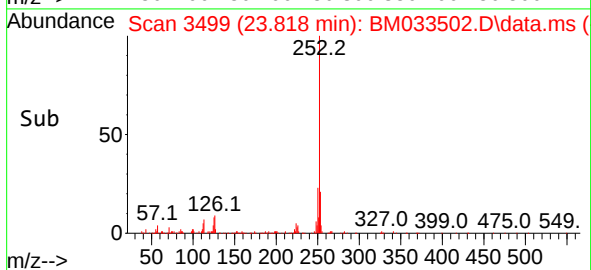
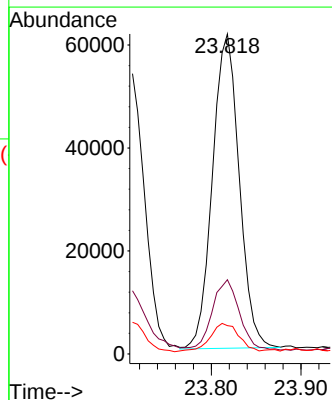
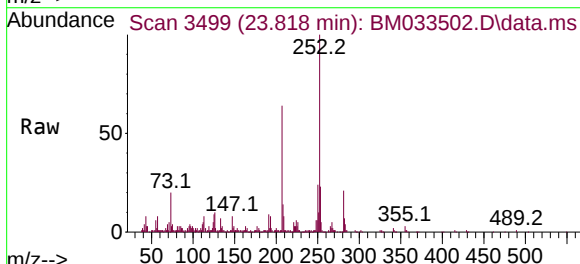
Tgt Ion:252 Resp: 126073

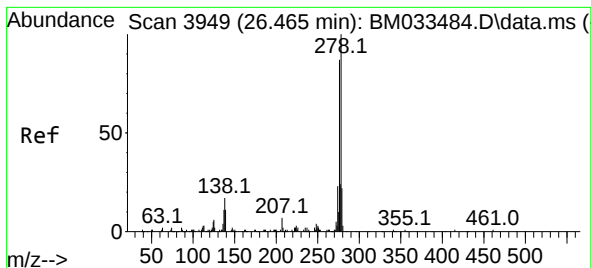
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 8.8 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 4.236 ng

RT: 26.430 min Scan# 3949

Delta R.T. -0.035 min

Lab File: BM033502.D

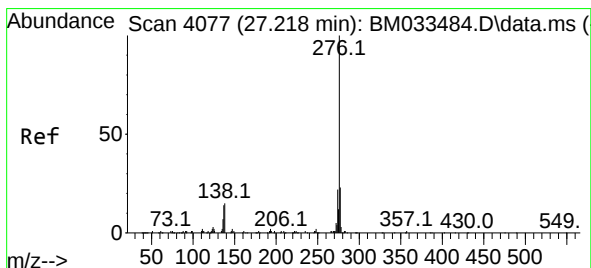
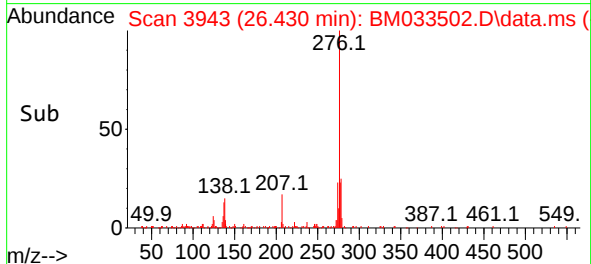
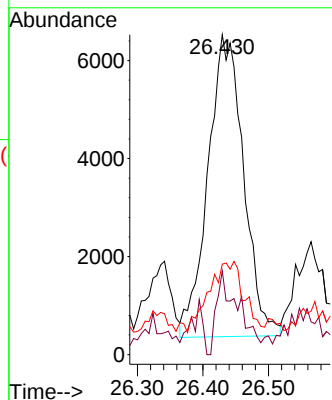
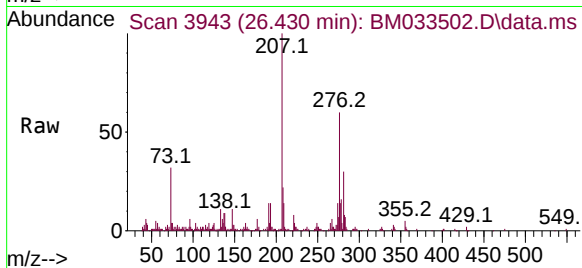
Acq: 17 Dec 2021 12:33

Instrument :

BNA_M

ClientSampleId :

Tgt Ion:	278	Resp:	23209
Ion Ratio	Lower	Upper	
278	100		
139	29.2	10.9	16.3#
279	28.3	17.7	26.5#



#92

Benzo(g,h,i)perylene

Concen: 11.603 ng

RT: 27.206 min Scan# 4075

Delta R.T. -0.012 min

Lab File: BM033502.D

Acq: 17 Dec 2021 12:33

Tgt Ion:	276	Resp:	81755
Ion Ratio	Lower	Upper	
276	100		
277	21.7	19.1	28.7
138	18.0	14.8	22.2

