

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028218.D
 Acq On : 11 Oct 2023 04:46
 Operator : MA/JU
 Sample : 04704-06
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 R-4(5-10)

Quant Time: Oct 11 05:50:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 10 00:42:22 2023
 Response via : Initial Calibration

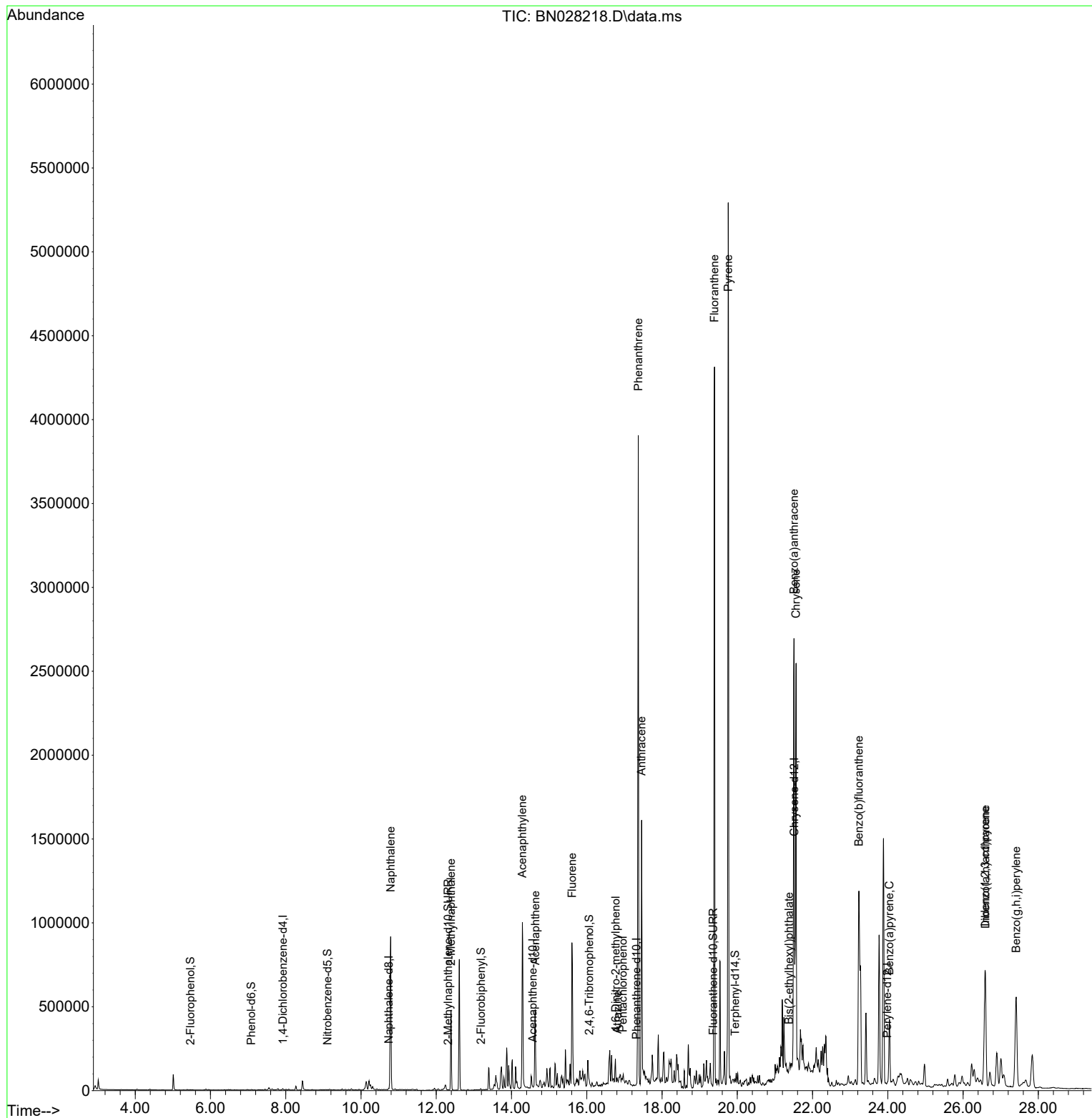
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	3593	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	11313	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	8421	0.400	ng	0.00
19) Phenanthrene-d10	17.319	188	12175	0.400	ng	# 0.00
29) Chrysene-d12	21.515	240	22567	0.400	ng	# 0.00
35) Perylene-d12	23.987	264	21852	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	1707	0.159	ng	0.00
5) Phenol-d6	7.084	99	2699	0.200	ng	0.00
8) Nitrobenzene-d5	9.112	82	2833	0.294	ng	-0.01
11) 2-Methylnaphthalene-d10	12.317	152	3702	0.221	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	380	0.099	ng	-0.01
15) 2-Fluorobiphenyl	13.187	172	5348	0.176	ng	0.00
27) Fluoranthene-d10	19.360	212	7148	0.234	ng	0.00
31) Terphenyl-d14	19.941	244	7965	0.151	ng	0.00
Target Compounds						
9) Naphthalene	10.789	128	1217604	41.655	ng	98
12) 2-Methylnaphthalene	12.392	142	333521	16.311	ng	99
16) Acenaphthylene	14.288	152	1214697	32.562	ng	99
17) Acenaphthene	14.630	154	259604	10.917	ng	99
18) Fluorene	15.606	166	682432	22.096	ng	# 96
20) 4,6-Dinitro-2-methylph...	16.773	198	1317	8.138	ng	# 13
23) Atrazine	16.810	200	171	0.031	ng	# 1
24) Pentachlorophenol	16.959	266	102	0.033	ng	# 78
25) Phenanthrene	17.368	178	3814046	116.199	ng	99
26) Anthracene	17.455	178	1554812	50.115	ng	# 95
28) Fluoranthene	19.393	202	3901040	102.982	ng	98
30) Pyrene	19.760	202	4716165	56.992	ng	96
32) Benzo(a)anthracene	21.506	228	2388136	31.099	ng	93
33) Chrysene	21.560	228	2197218	29.690	ng	96
34) Bis(2-ethylhexyl)phtha...	21.372	149	6758	0.134	ng	# 1
36) Indeno(1,2,3-cd)pyrene	26.586	276	1223720	16.649	ng	97
37) Benzo(b)fluoranthene	23.230	252	2346692	33.251	ng	# 89
39) Benzo(a)pyrene	24.042	252	477564	7.156	ng	92
40) Dibenzo(a,h)anthracene	26.595	278	371691	6.182	ng	99
41) Benzo(g,h,i)perylene	27.410	276	1258331	20.388	ng	95

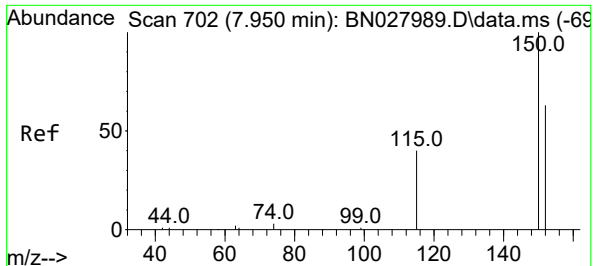
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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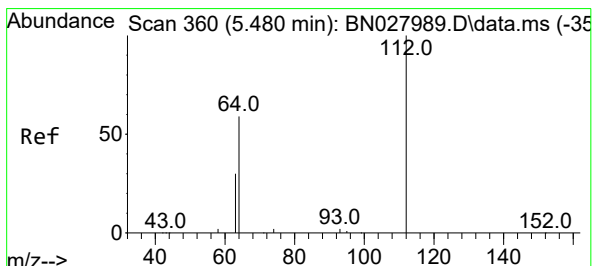
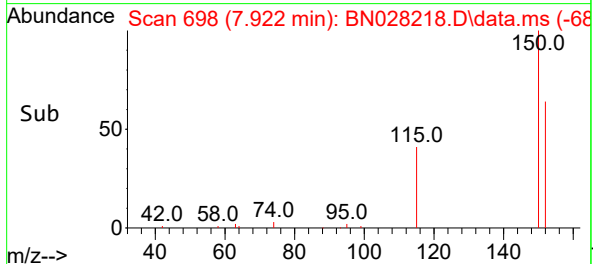
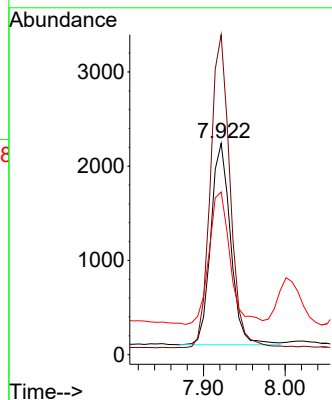
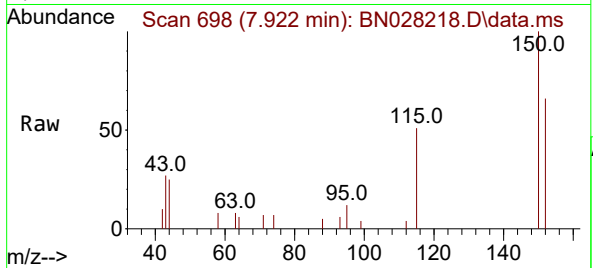




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

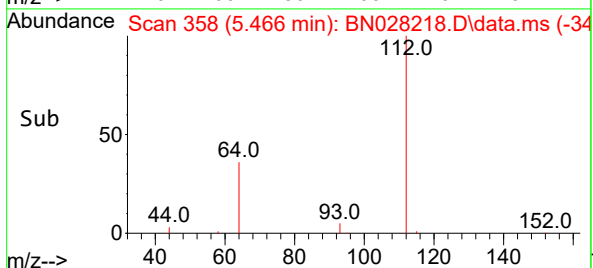
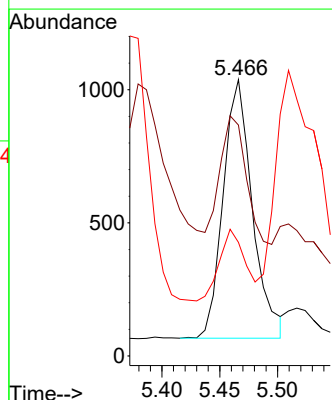
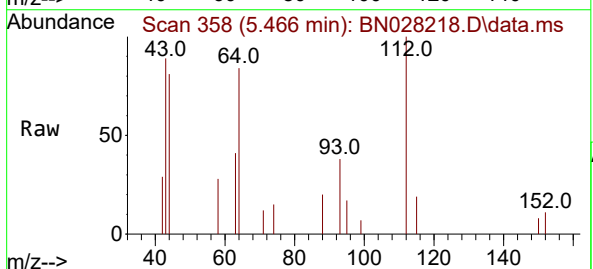
Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

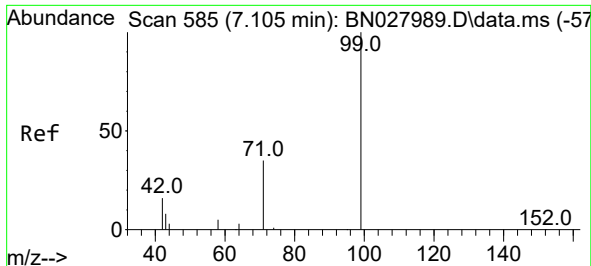
Tgt Ion:152 Resp: 3593
Ion Ratio Lower Upper
152 100
150 151.4 125.6 188.4
115 77.0 54.8 82.2



#4
2-Fluorophenol
Concen: 0.159 ng
RT: 5.466 min Scan# 358
Delta R.T. -0.000 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion:112 Resp: 1707
Ion Ratio Lower Upper
112 100
64 47.2 45.0 67.6
63 24.8 23.4 35.0

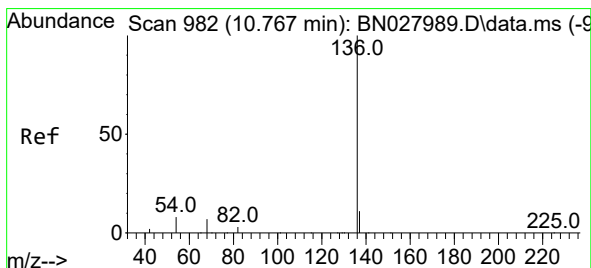
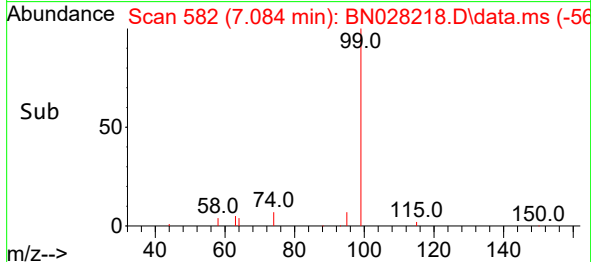
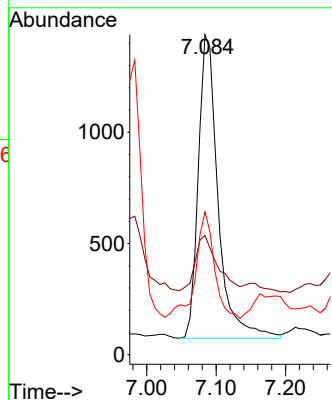
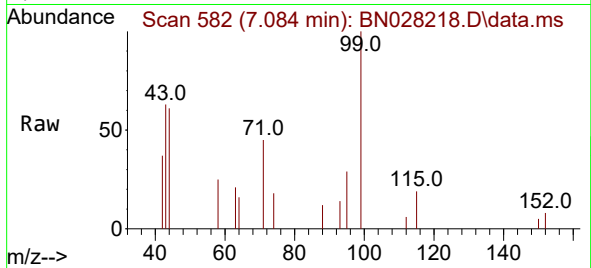




#5
Phenol-d6
Concen: 0.200 ng
RT: 7.084 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

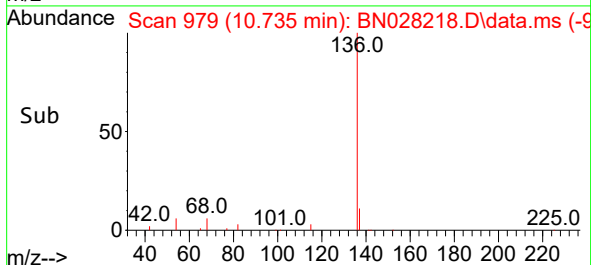
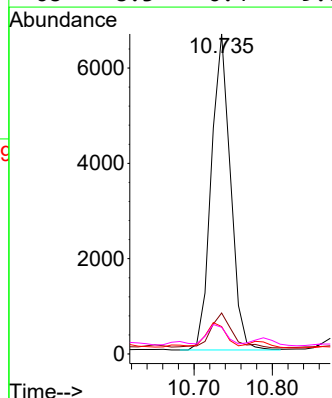
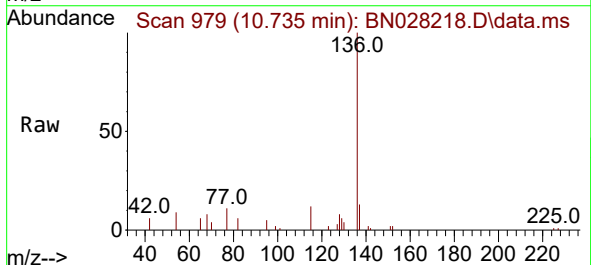
Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

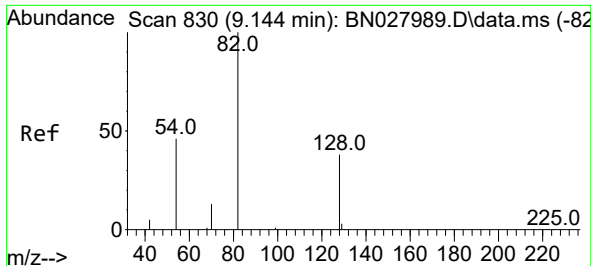
Tgt Ion: 99 Resp: 2699
Ion Ratio Lower Upper
99 100
42 20.2 14.6 22.0
71 33.2 28.3 42.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.000 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion: 136 Resp: 11313
Ion Ratio Lower Upper
136 100
137 12.8 9.4 14.0
54 8.5 7.0 10.6
68 8.3 6.4 9.6

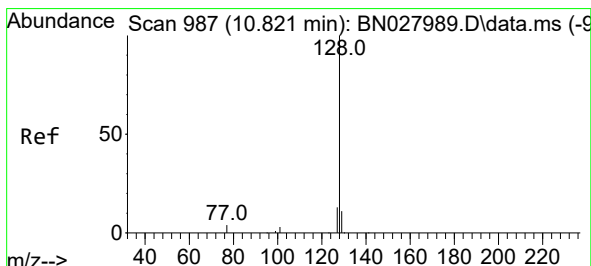
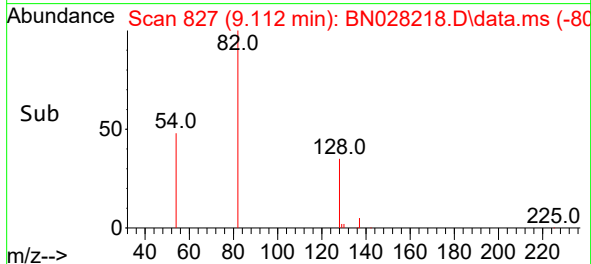
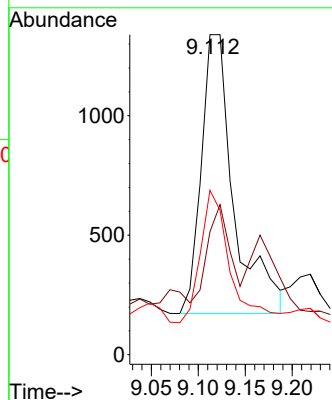
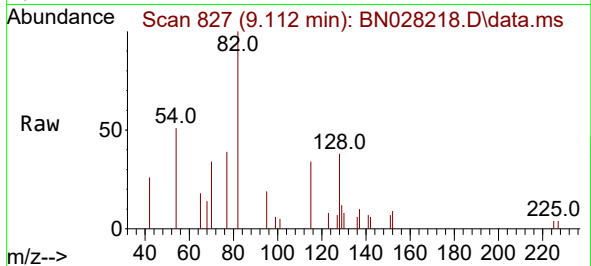




#8
Nitrobenzene-d5
Concen: 0.294 ng
RT: 9.112 min Scan# 81
Delta R.T. -0.011 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

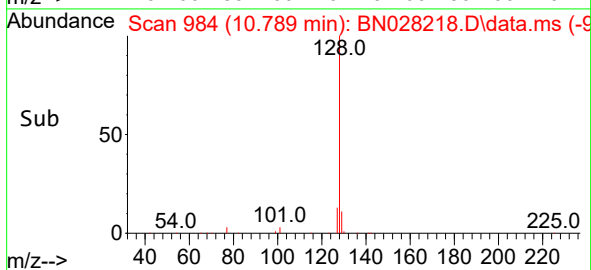
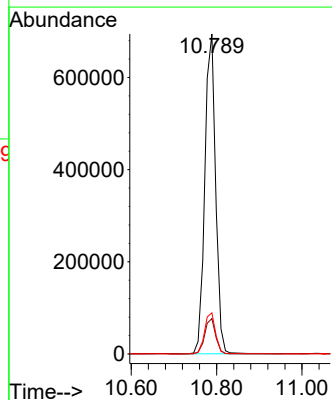
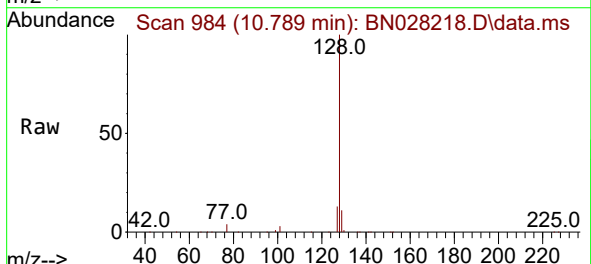
Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

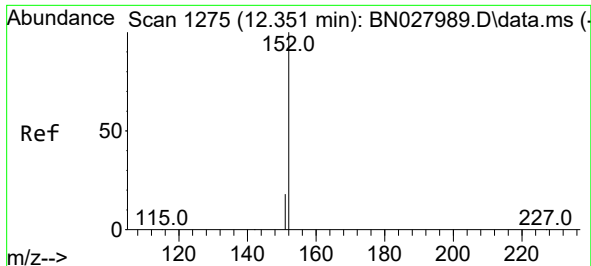
Tgt Ion: 82 Resp: 2833
Ion Ratio Lower Upper
82 100
128 38.4 32.7 49.1
54 51.4 38.7 58.1



#9
Naphthalene
Concen: 41.655 ng
RT: 10.789 min Scan# 984
Delta R.T. -0.000 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion: 128 Resp: 1217604
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.2
127 12.8 10.9 16.3





#11

2-Methylnaphthalene-d10

Concen: 0.221 ng

RT: 12.317 min Scan# 1266

Delta R.T. -0.008 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

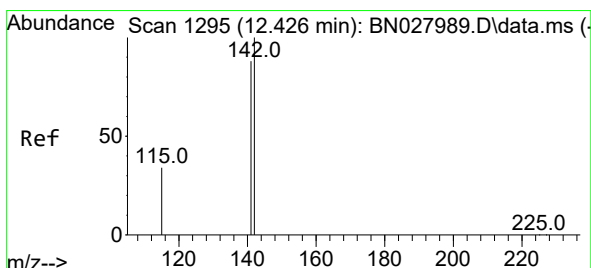
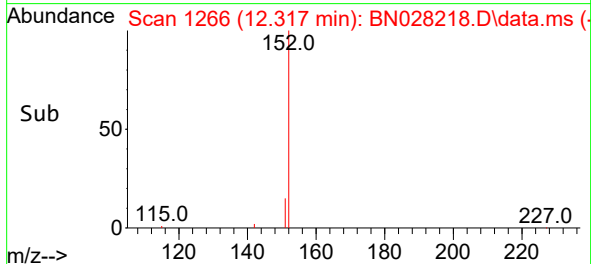
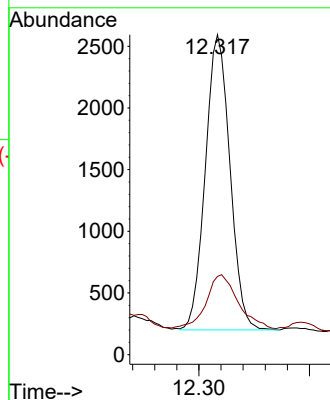
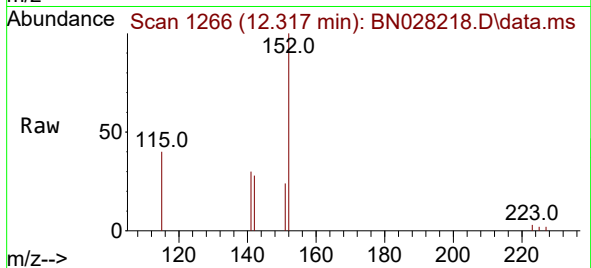
R-4(5-10)

Tgt Ion:152 Resp: 3702

Ion Ratio Lower Upper

152 100

151 23.8 16.5 24.7



#12

2-Methylnaphthalene

Concen: 16.311 ng

RT: 12.392 min Scan# 1286

Delta R.T. -0.008 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

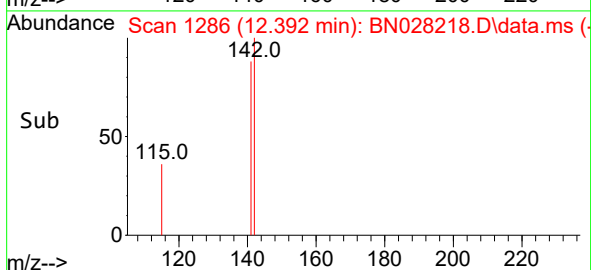
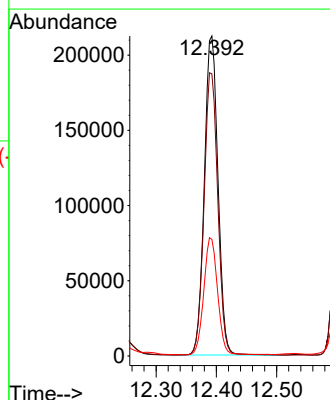
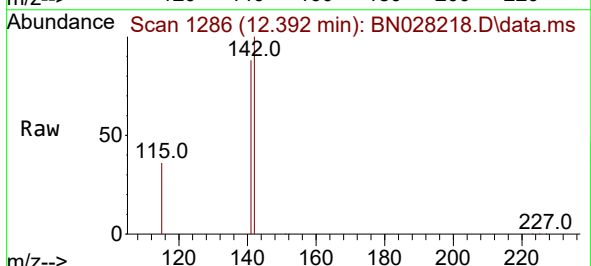
Tgt Ion:142 Resp: 333521

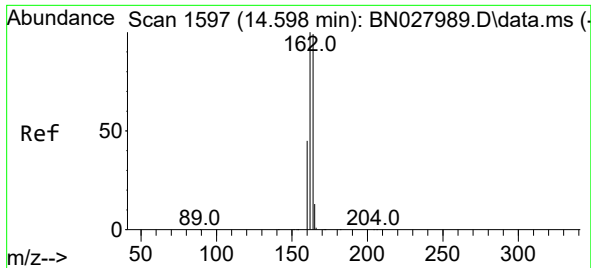
Ion Ratio Lower Upper

142 100

141 88.1 70.7 106.1

115 36.5 28.6 42.8

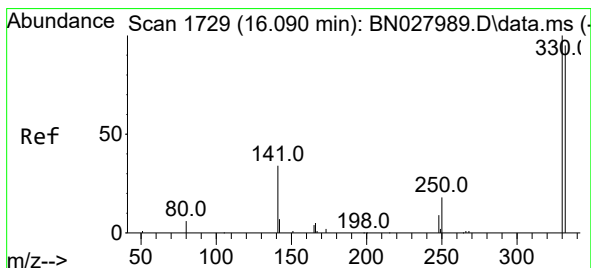
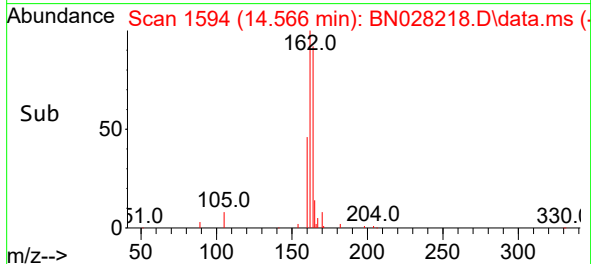
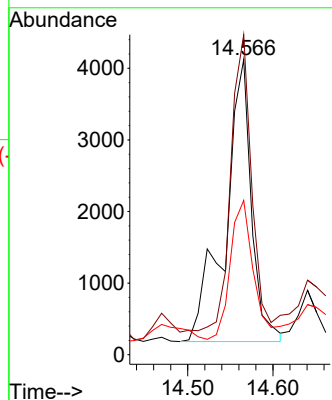
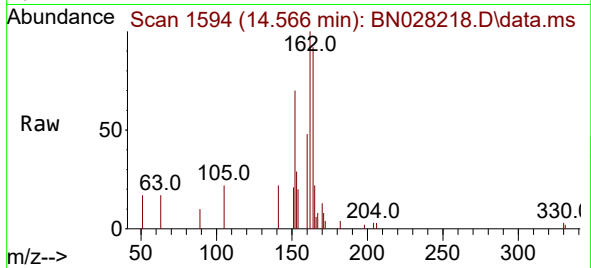




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.566 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

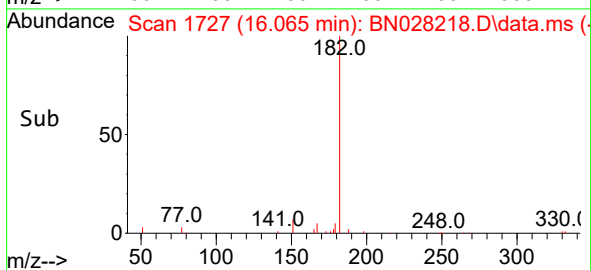
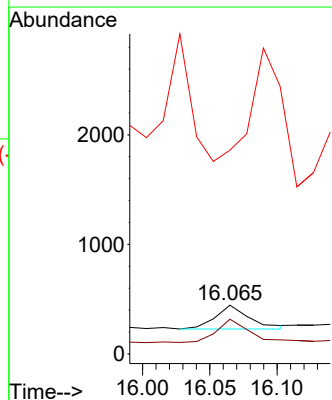
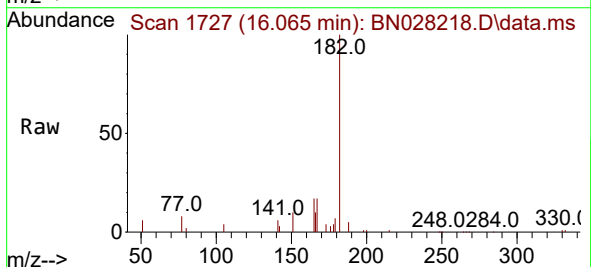
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ClientSampleId :
R-4(5-10)

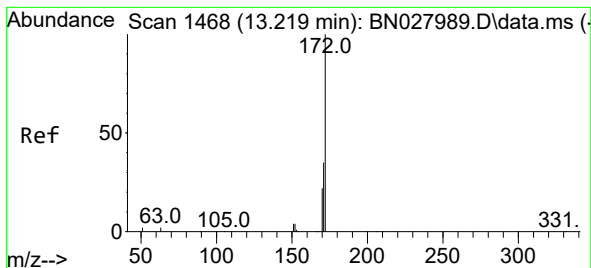
Tgt Ion:164 Resp: 8421
Ion Ratio Lower Upper
164 100
162 108.4 80.8 121.2
160 52.3 36.4 54.6



#14
2,4,6-Tribromophenol
Concen: 0.099 ng
RT: 16.065 min Scan# 1727
Delta R.T. -0.012 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion:330 Resp: 380
Ion Ratio Lower Upper
330 100
332 99.2 78.1 117.1
141 0.0 33.4 50.2#





#15

2-Fluorobiphenyl

Concen: 0.176 ng

RT: 13.187 min Scan# 1465

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

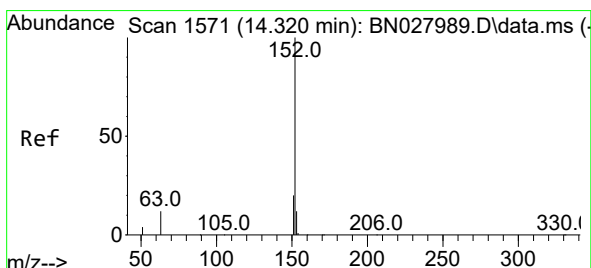
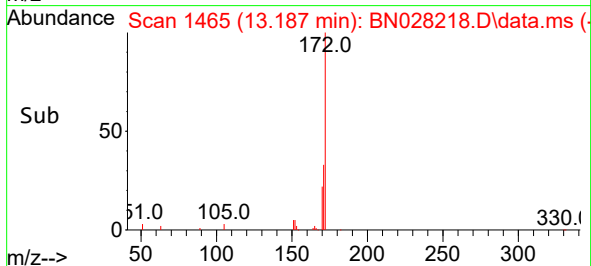
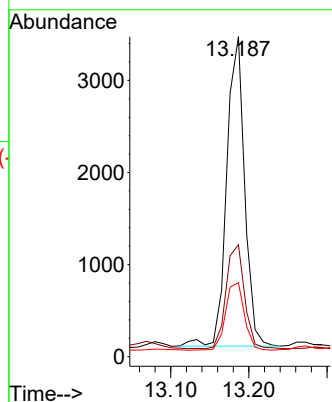
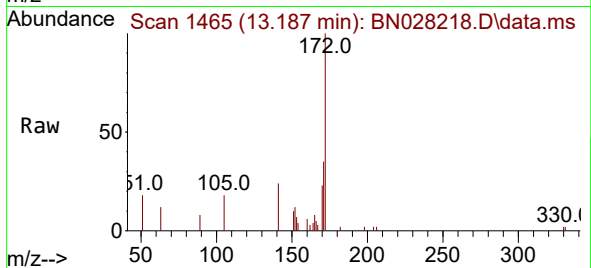
Tgt Ion:172 Resp: 5348

Ion Ratio Lower Upper

172 100

171 35.0 28.1 42.1

170 23.1 18.4 27.6



#16

Acenaphthylene

Concen: 32.562 ng

RT: 14.288 min Scan# 1568

Delta R.T. -0.011 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

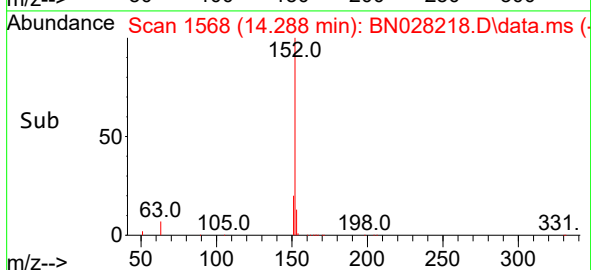
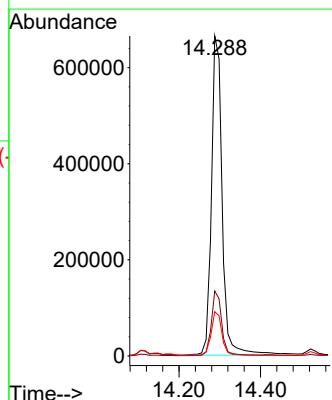
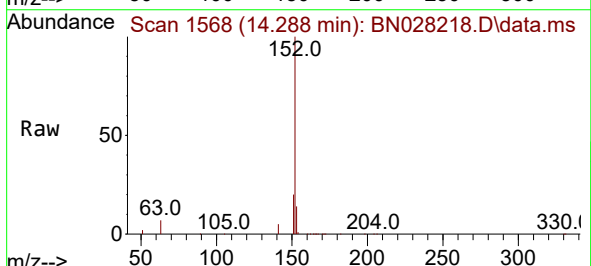
Tgt Ion:152 Resp: 1214697

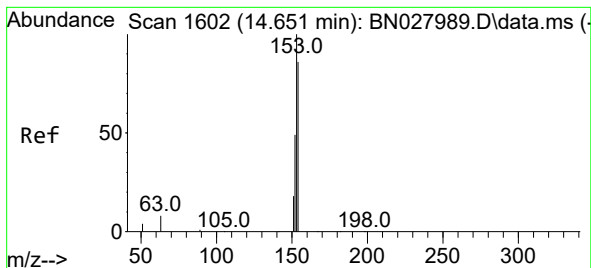
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.8 10.2 15.4





#17

Acenaphthene

Concen: 10.917 ng

RT: 14.630 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

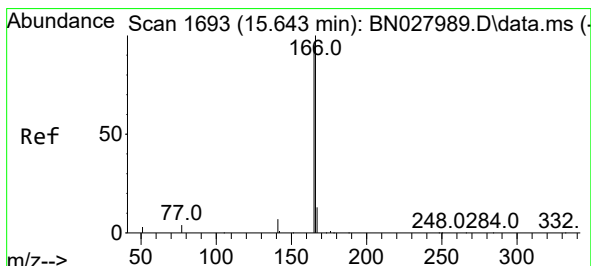
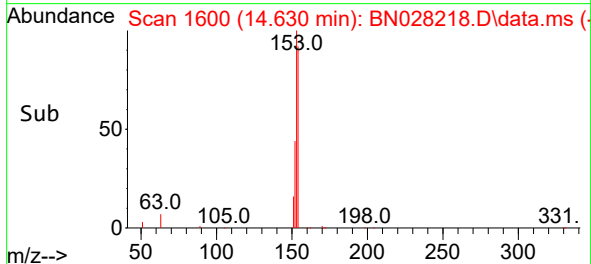
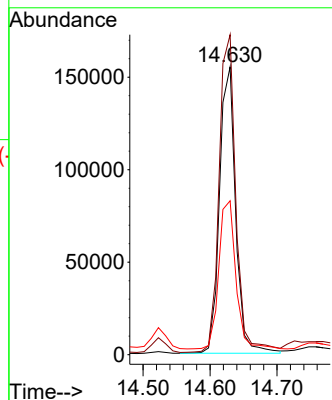
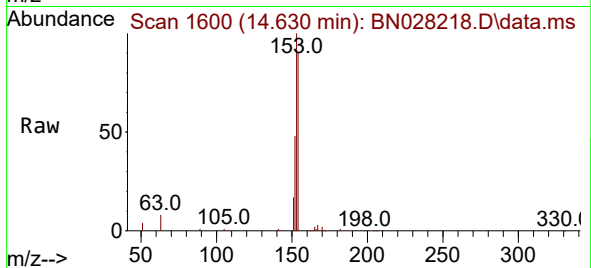
Tgt Ion:154 Resp: 259604

Ion Ratio Lower Upper

154 100

153 114.7 90.8 136.2

152 54.6 43.9 65.9



#18

Fluorene

Concen: 22.096 ng

RT: 15.606 min Scan# 1690

Delta R.T. -0.012 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

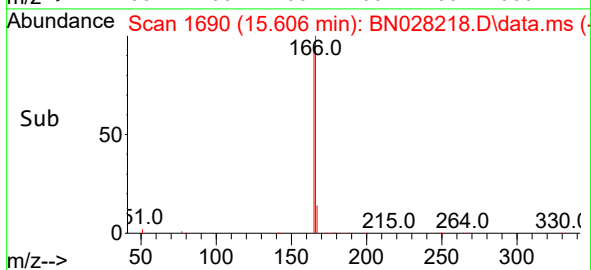
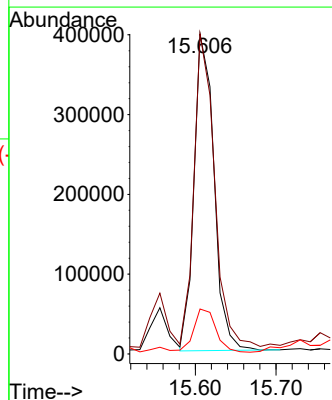
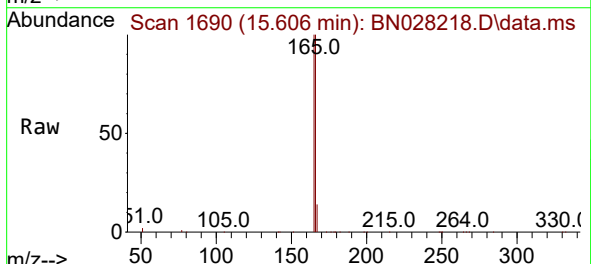
Tgt Ion:166 Resp: 682432

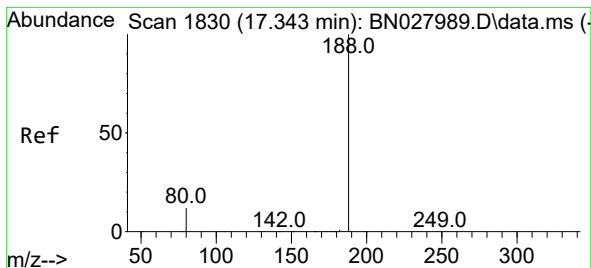
Ion Ratio Lower Upper

166 100

165 100.6 77.8 116.8

167 16.6 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.319 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

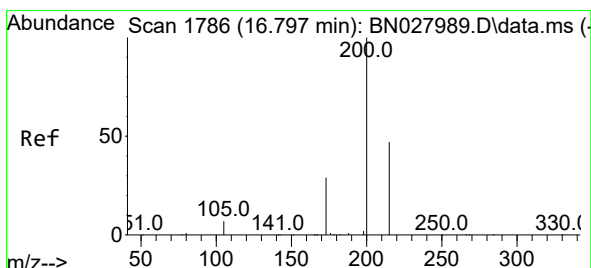
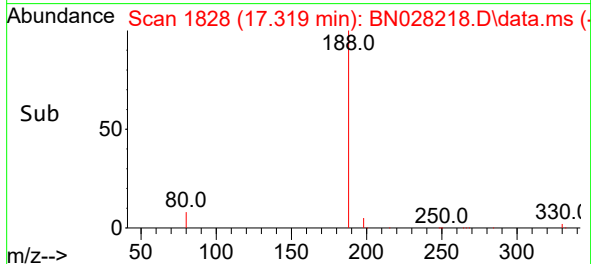
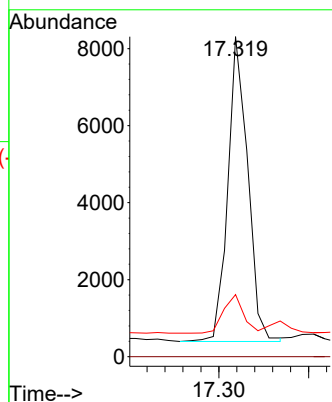
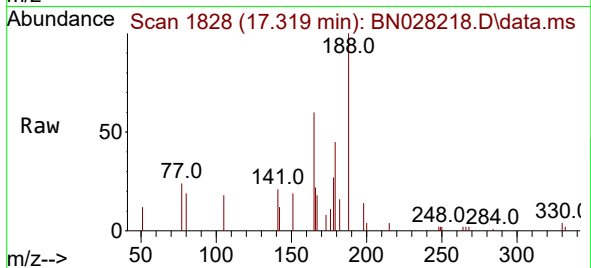
Tgt Ion:188 Resp: 12175

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 19.4 10.2 15.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 8.138 ng

RT: 16.773 min Scan# 1784

Delta R.T. -0.012 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

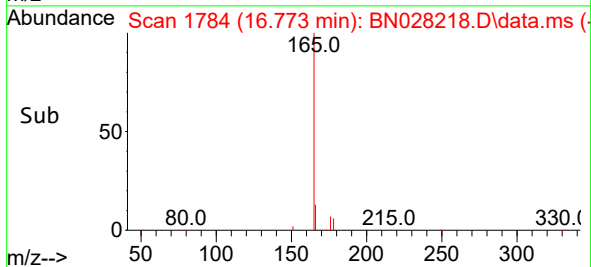
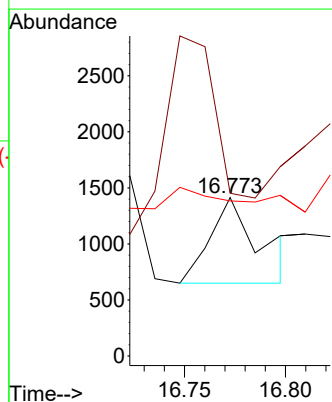
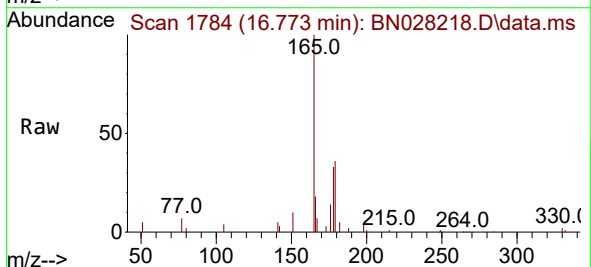
Tgt Ion:198 Resp: 1317

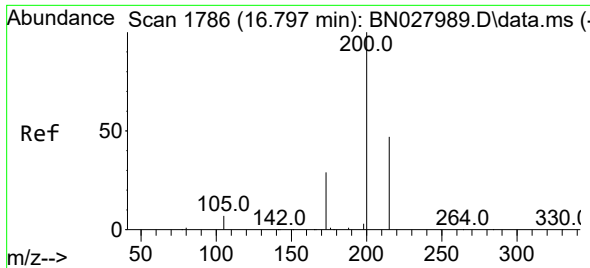
Ion Ratio Lower Upper

198 100

51 102.7 180.7 271.1#

105 97.8 222.2 333.2#

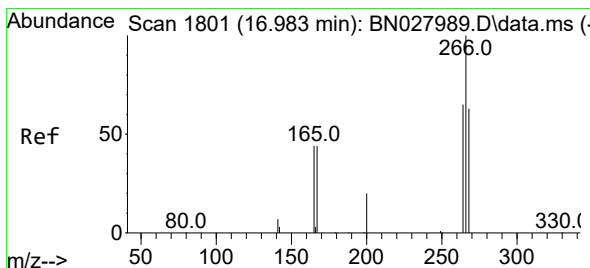
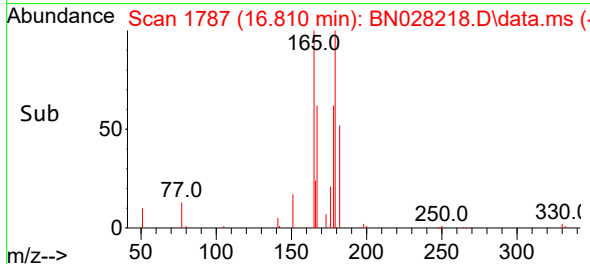
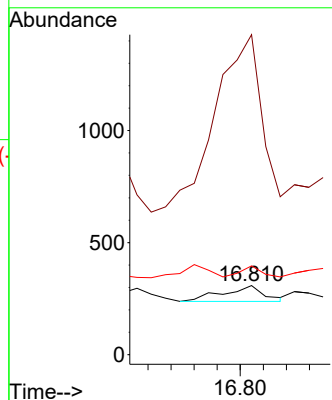
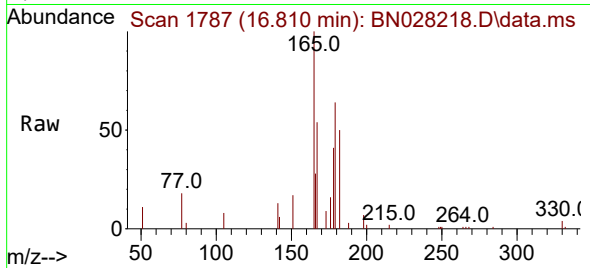




#23
 Atrazine
 Concen: 0.031 ng
 RT: 16.810 min Scan# 1786
 Delta R.T. 0.025 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

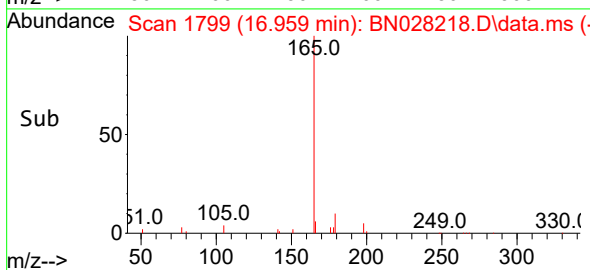
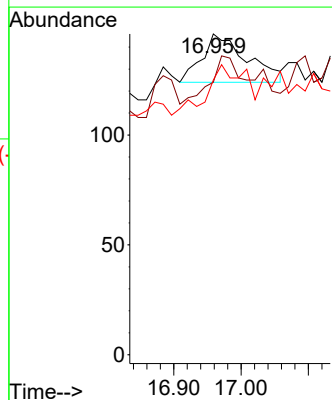
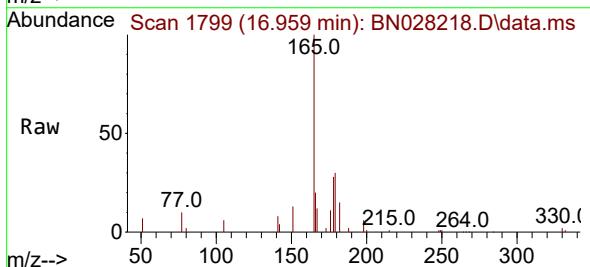
Instrument :
 BNA_N
 ClientSampleId :
 R-4(5-10)

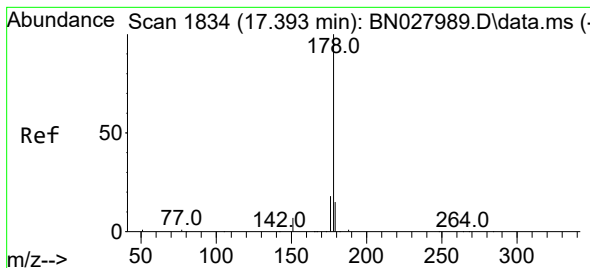
Tgt Ion:200 Resp: 171
 Ion Ratio Lower Upper
 200 100
 173 463.6 24.7 37.1#
 215 128.6 39.0 58.6#



#24
 Pentachlorophenol
 Concen: 0.033 ng
 RT: 16.959 min Scan# 1799
 Delta R.T. -0.012 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

Tgt Ion:266 Resp: 102
 Ion Ratio Lower Upper
 266 100
 264 49.0 52.7 79.1#
 268 88.2 56.2 84.2#





#25

Phenanthrene

Concen: 116.199 ng

RT: 17.368 min Scan# 1832

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

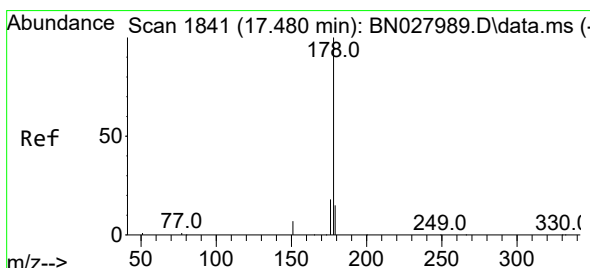
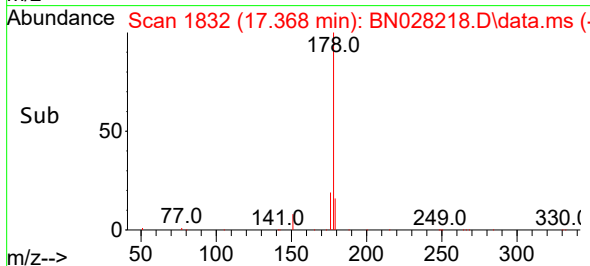
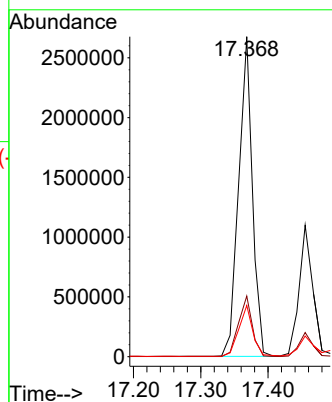
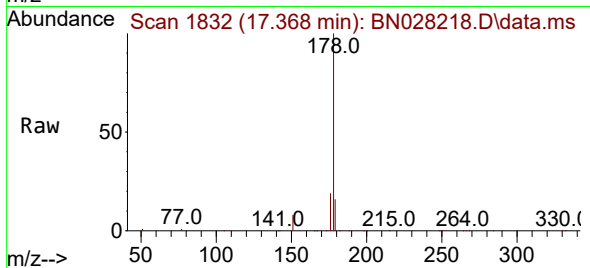
Tgt Ion:178 Resp: 3814046

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 16.1 12.4 18.6



#26

Anthracene

Concen: 50.115 ng

RT: 17.455 min Scan# 1839

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

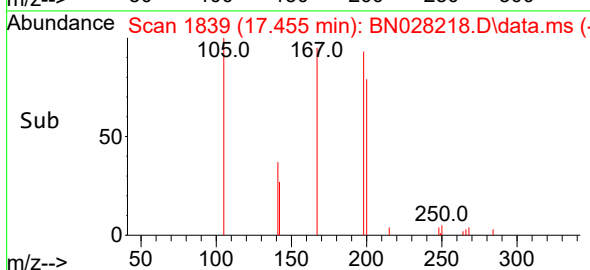
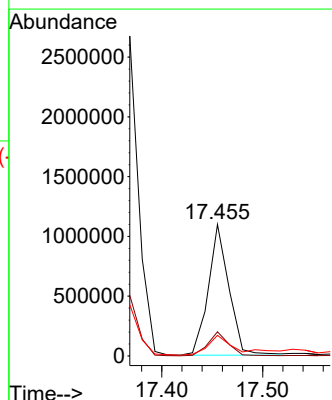
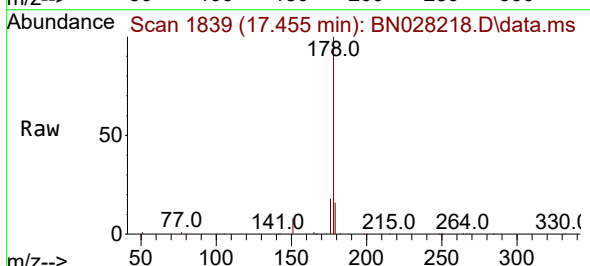
Tgt Ion:178 Resp: 1554812

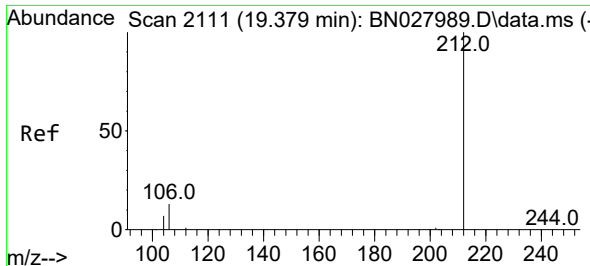
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 20.1 12.2 18.2#

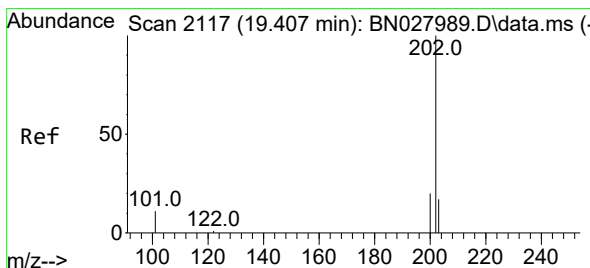
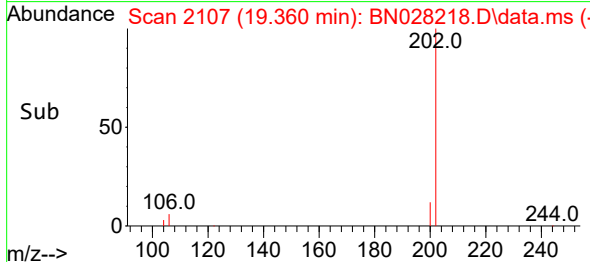
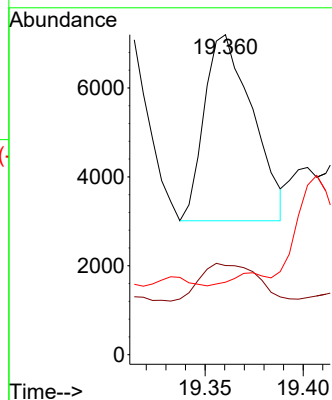
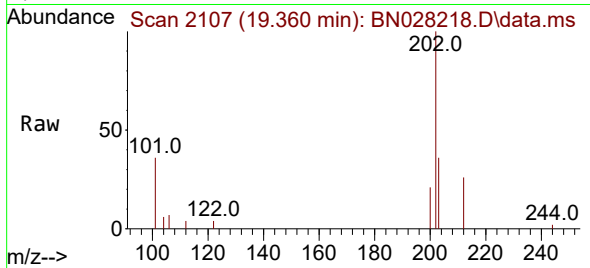




#27
Fluoranthene-d10
Concen: 0.234 ng
RT: 19.360 min Scan# 2110
Delta R.T. 0.005 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

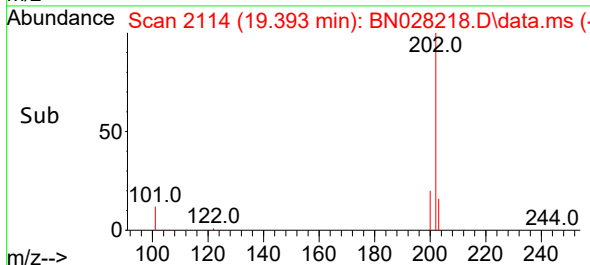
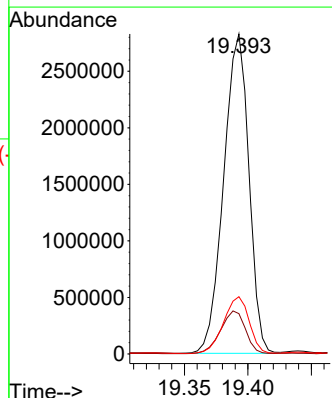
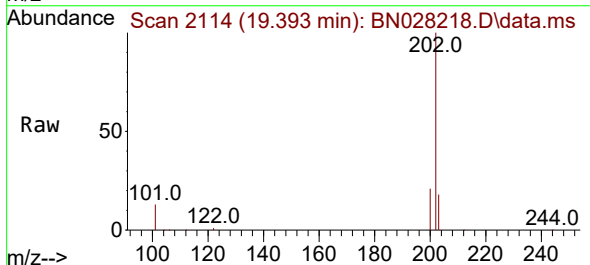
Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

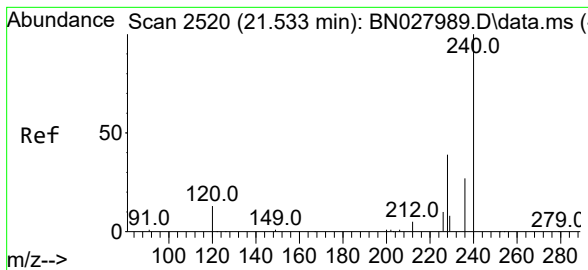
Tgt Ion:212 Resp: 7148
Ion Ratio Lower Upper
212 100
106 23.9 11.3 16.9#
104 4.9 6.4 9.6#



#28
Fluoranthene
Concen: 102.982 ng
RT: 19.393 min Scan# 2114
Delta R.T. 0.009 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion:202 Resp: 3901040
Ion Ratio Lower Upper
202 100
101 13.3 9.8 14.6
203 18.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.515 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

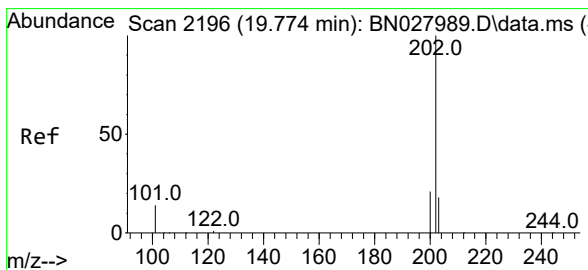
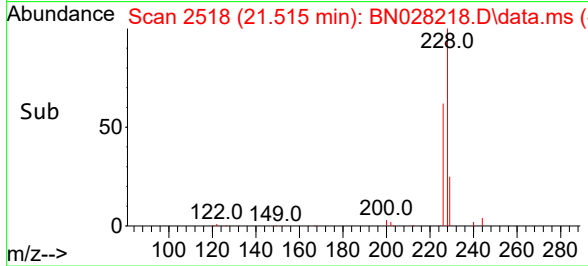
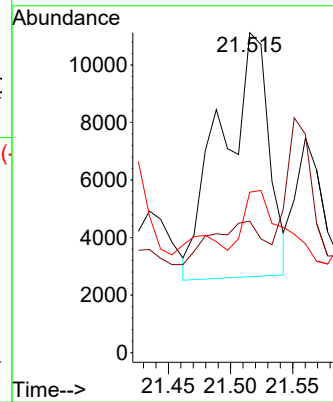
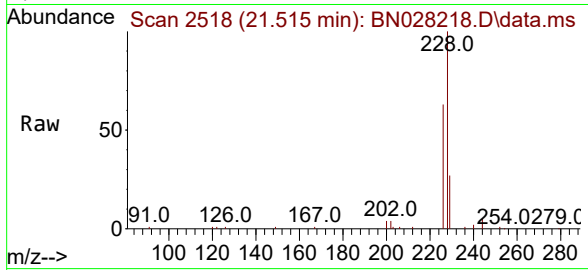
Tgt Ion:240 Resp: 22567

Ion Ratio Lower Upper

240 100

120 41.1 13.8 20.6#

236 50.2 22.6 33.8#



#30

Pyrene

Concen: 56.992 ng

RT: 19.760 min Scan# 2193

Delta R.T. 0.009 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

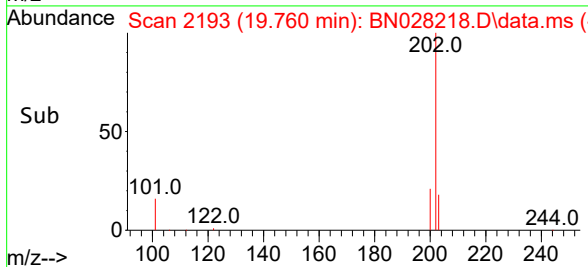
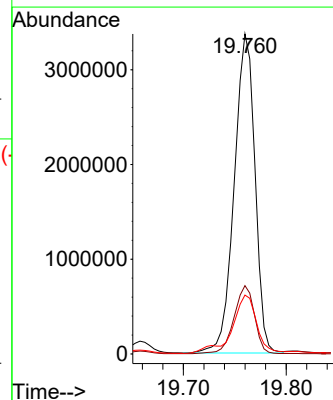
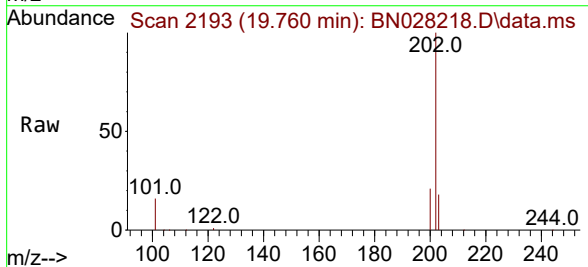
Tgt Ion:202 Resp: 4716165

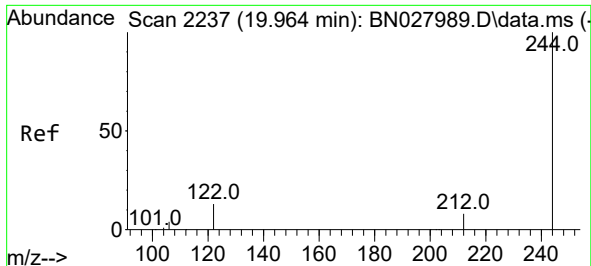
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 21.4 14.7 22.1

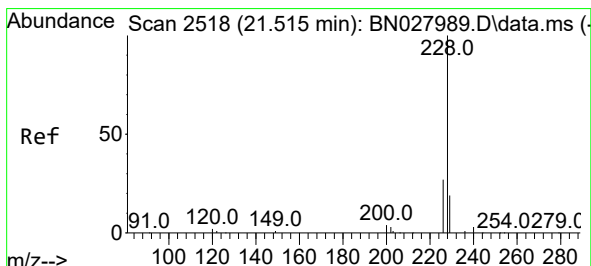
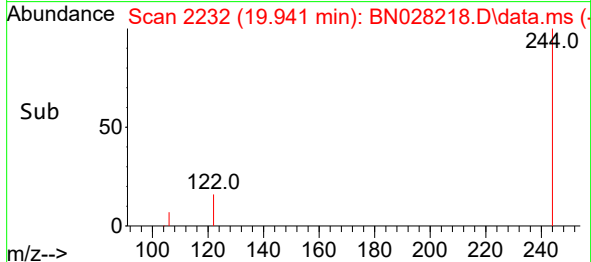
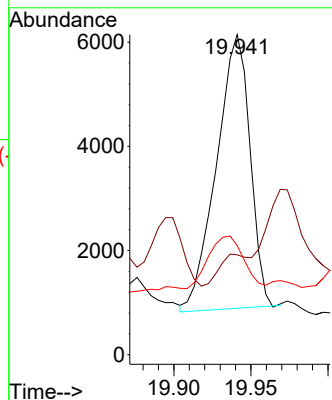
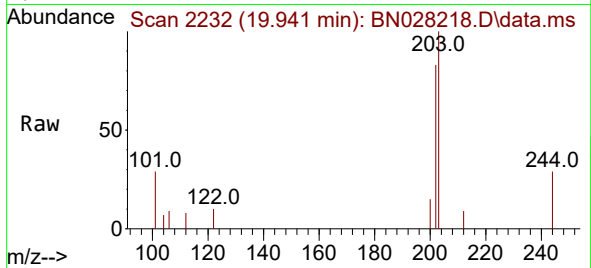




#31
 Terphenyl-d14
 Concen: 0.151 ng
 RT: 19.941 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

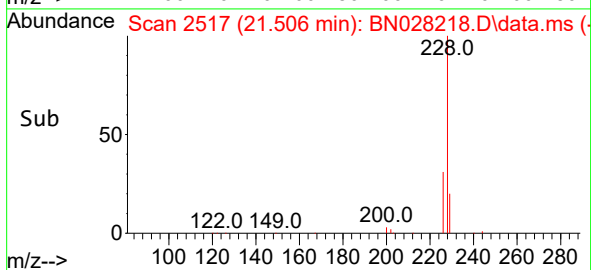
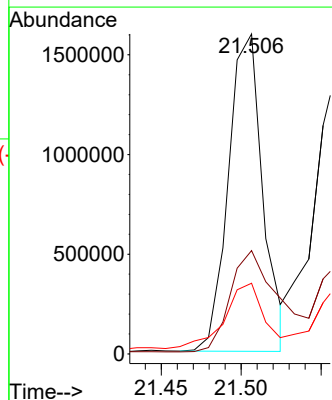
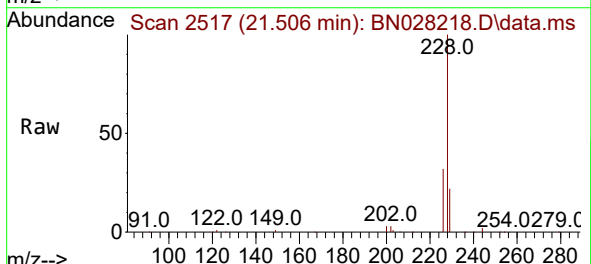
Instrument :
 BNA_N
 ClientSampleId :
 R-4(5-10)

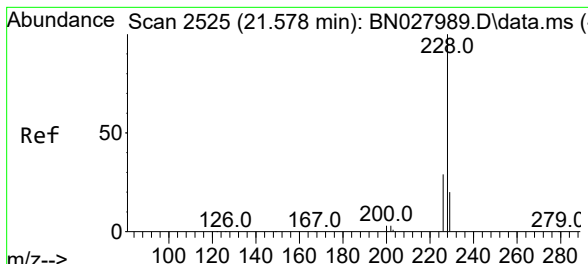
Tgt Ion:244 Resp: 7965
 Ion Ratio Lower Upper
 244 100
 212 31.2 6.6 9.8#
 122 34.1 11.4 17.0#



#32
 Benzo(a)anthracene
 Concen: 31.099 ng
 RT: 21.506 min Scan# 2517
 Delta R.T. 0.009 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

Tgt Ion:228 Resp: 2388136
 Ion Ratio Lower Upper
 228 100
 226 32.3 22.0 33.0
 229 22.1 16.0 24.0



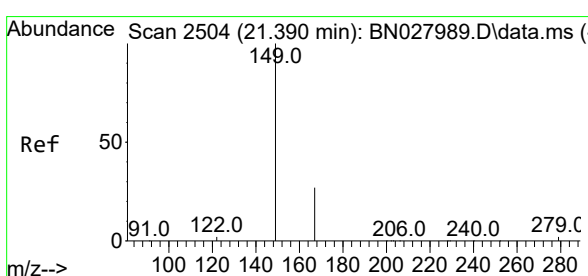
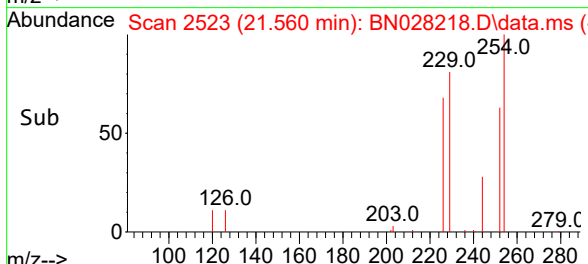
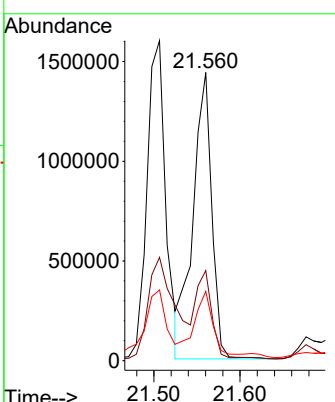
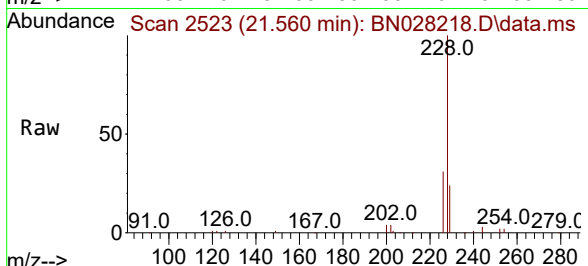


#33
 Chrysene
 Concen: 29.690 ng
 RT: 21.560 min Scan# 2150
 Delta R.T. 0.009 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

Instrument :
 BNA_N
 ClientSampleId :
 R-4(5-10)

Tgt Ion:228 Resp: 2197218

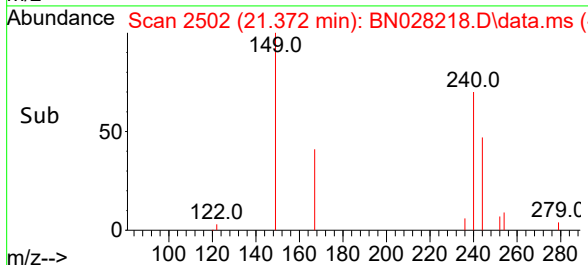
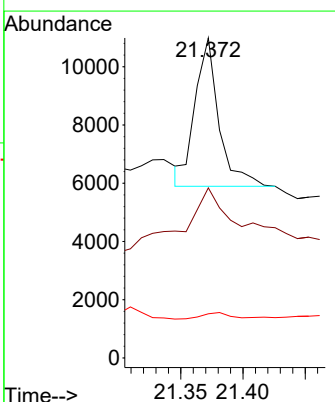
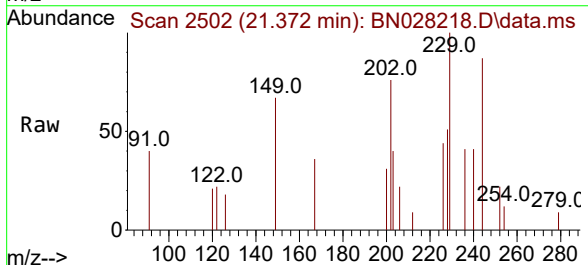
Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.8	35.8
229	24.1	16.6	25.0

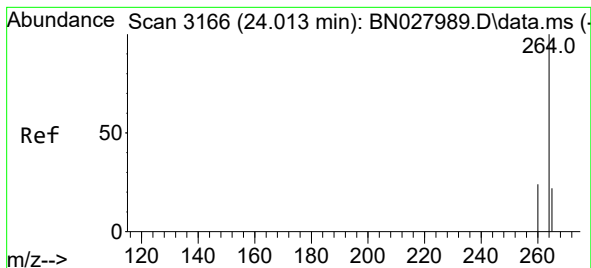


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.134 ng
 RT: 21.372 min Scan# 2502
 Delta R.T. 0.009 min
 Lab File: BN028218.D
 Acq: 11 Oct 2023 04:46

Tgt Ion:149 Resp: 6758

Ion	Ratio	Lower	Upper
149	100		
167	105.1	22.1	33.1#
279	5.4	3.4	5.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.987 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

Instrument :

BNA_N

ClientSampleId :

R-4(5-10)

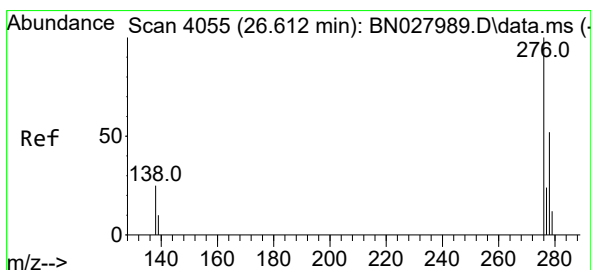
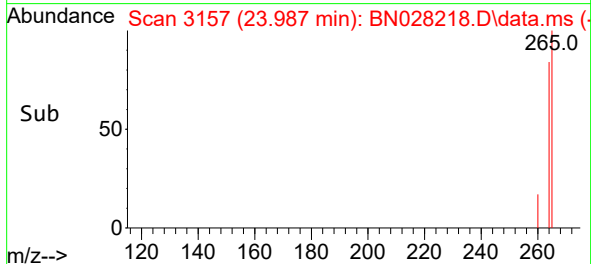
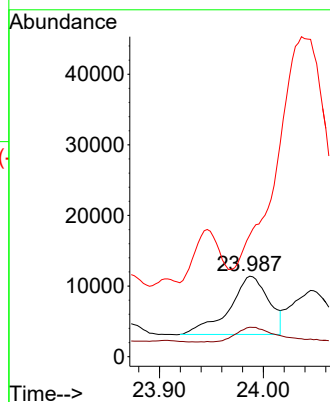
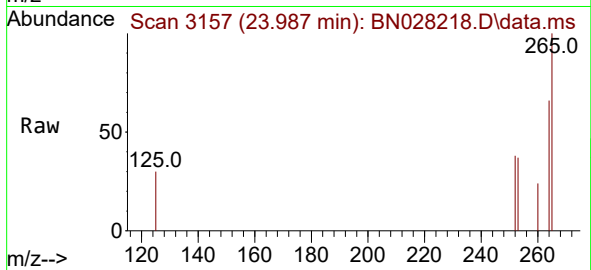
Tgt Ion:264 Resp: 21852

Ion Ratio Lower Upper

264 100

260 36.6 20.2 30.4#

265 151.3 54.8 82.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 16.649 ng

RT: 26.586 min Scan# 4046

Delta R.T. 0.029 min

Lab File: BN028218.D

Acq: 11 Oct 2023 04:46

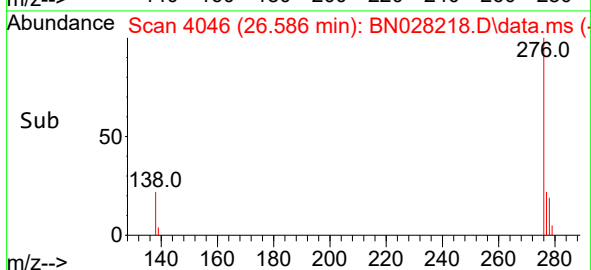
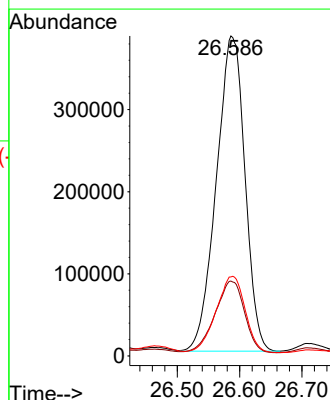
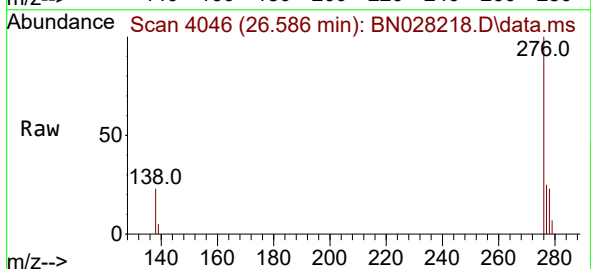
Tgt Ion:276 Resp: 1223720

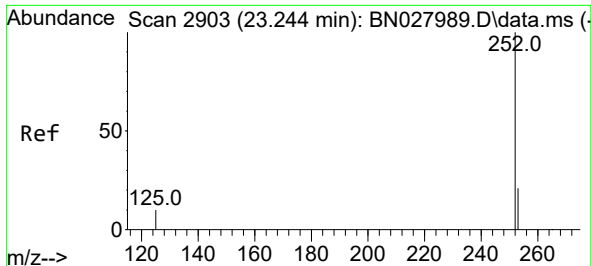
Ion Ratio Lower Upper

276 100

138 23.5 20.9 31.3

277 24.6 19.8 29.6

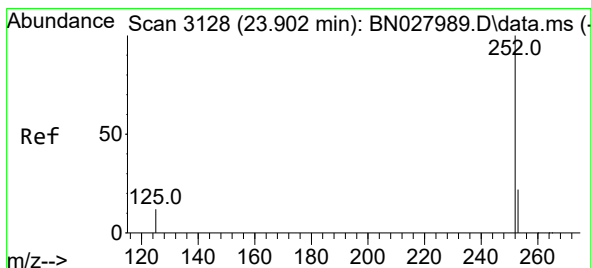
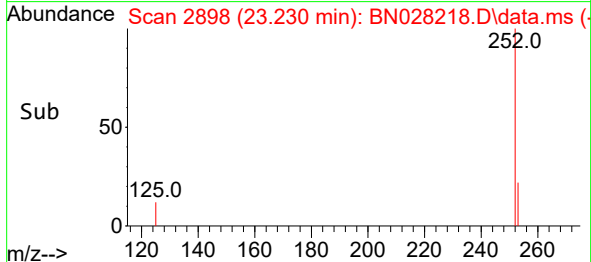
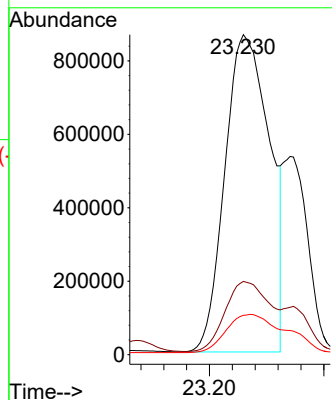
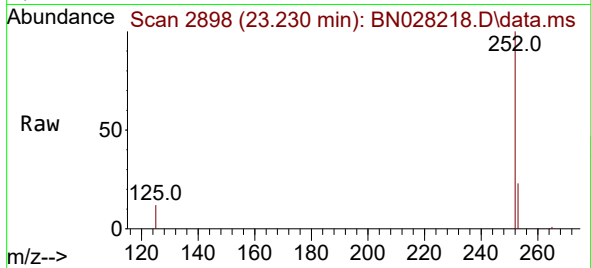




#37
Benzo(b)fluoranthene
Concen: 33.251 ng
RT: 23.230 min Scan# 21
Delta R.T. 0.017 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

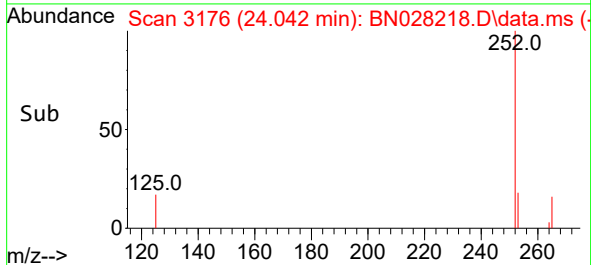
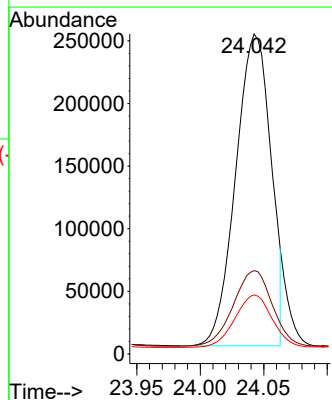
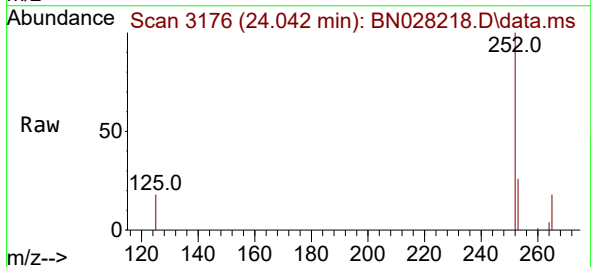
Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

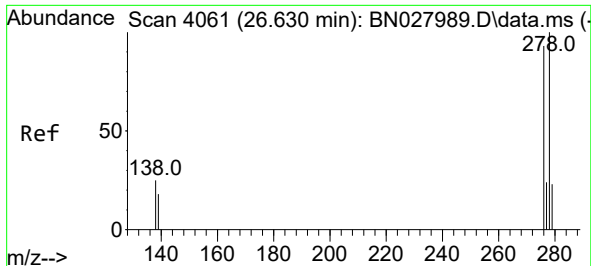
Tgt Ion:252 Resp: 2346692
Ion Ratio Lower Upper
252 100
253 22.9 22.9 34.3
125 12.3 13.8 20.8#



#39
Benzo(a)pyrene
Concen: 7.156 ng
RT: 24.042 min Scan# 3176
Delta R.T. 0.178 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion:252 Resp: 477564
Ion Ratio Lower Upper
252 100
253 26.1 25.0 37.4
125 18.4 16.6 24.8

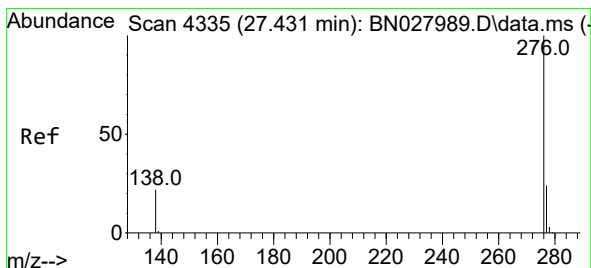
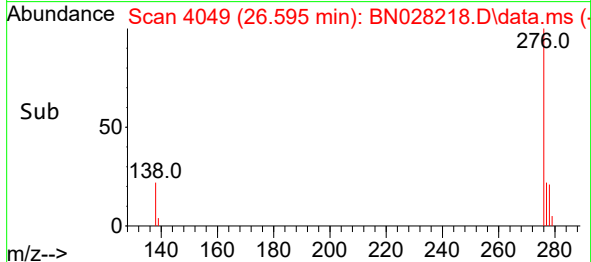
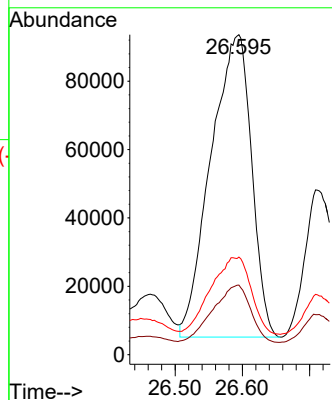
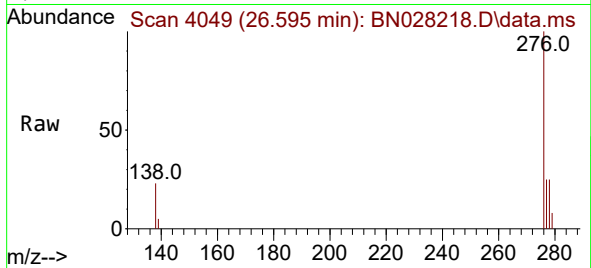




#40
Dibenzo(a,h)anthracene
Concen: 6.182 ng
RT: 26.595 min Scan# 4061
Delta R.T. 0.017 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Instrument :
BNA_N
ClientSampleId :
R-4(5-10)

Tgt Ion:278 Resp: 371691
Ion Ratio Lower Upper
278 100
139 21.8 17.7 26.5
279 30.5 25.2 37.8



#41
Benzo(g,h,i)perylene
Concen: 20.388 ng
RT: 27.410 min Scan# 4328
Delta R.T. 0.044 min
Lab File: BN028218.D
Acq: 11 Oct 2023 04:46

Tgt Ion:276 Resp: 1258331
Ion Ratio Lower Upper
276 100
277 24.7 22.1 33.1
138 23.9 20.8 31.2

