

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101221\
 Data File : BN016898.D
 Acq On : 12 Oct 2021 12:14
 Operator : CG/JU
 Sample : M3702-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Quant Time: Oct 12 12:50:56 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN101221.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 12 02:31:22 2021
 Response via : Initial Calibration

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

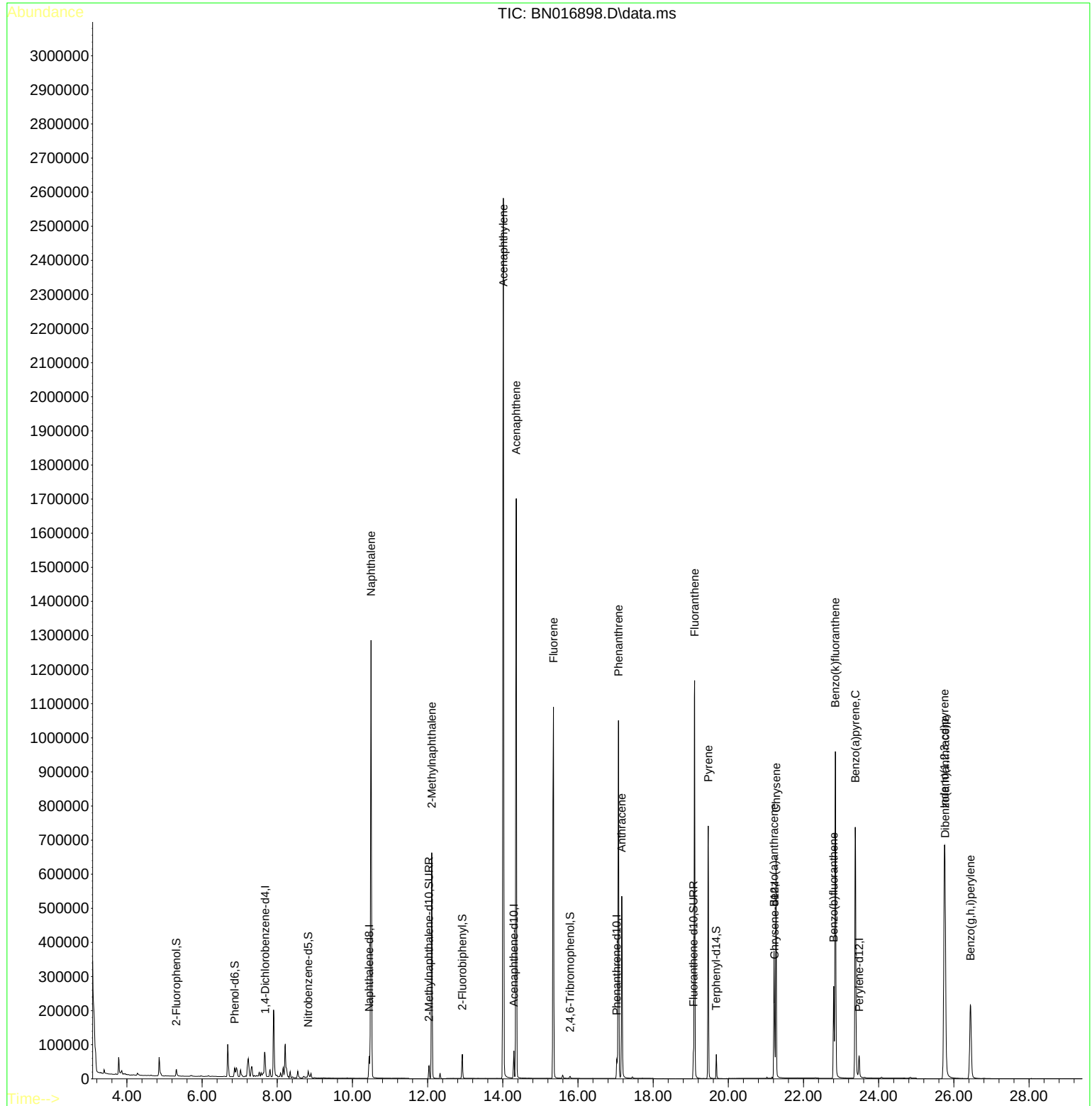
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.679	152	18699	0.400	ng	0.00
7) Naphthalene-d8	10.444	136	85794	0.400	ng	#-0.01
13) Acenaphthene-d10	14.294	164	44410	0.400	ng	0.00
19) Phenanthrene-d10	17.029	188	81699	0.400	ng	#-0.01
29) Chrysene-d12	21.227	240	83036	0.400	ng	#-0.01
35) Perylene-d12	23.477	264	81407	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.318	112	19907	0.416	ng	0.02
5) Phenol-d6	6.868	99	23677	0.441	ng	0.00
8) Nitrobenzene-d5	8.822	82	19171	0.331	ng	-0.01
11) 2-Methylnaphthalene-d10	12.038	152	51965	0.418	ng	0.00
14) 2,4,6-Tribromophenol	15.791	330	5512	0.256	ng	0.00
15) 2-Fluorobiphenyl	12.924	172	66700	0.392	ng	0.00
27) Fluoranthene-d10	19.073	212	89262	0.416	ng	0.00
31) Terphenyl-d14	19.678	244	73718	0.390	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.495	128	1683445	7.198	ng	99
12) 2-Methylnaphthalene	12.109	142	475282	3.251	ng	99
16) Acenaphthylene	14.015	152	2870756	15.151	ng	100
17) Acenaphthene	14.357	154	860743	6.838	ng	98
18) Fluorene	15.347	166	734821	4.836	ng	99
25) Phenanthrene	17.078	178	1060662	4.520	ng	100
26) Anthracene	17.163	178	574324	2.785	ng	100
28) Fluoranthene	19.102	202	1069264	4.141	ng	100
30) Pyrene	19.465	202	637065	2.339	ng	100
32) Benzo(a)anthracene	21.216	228	285523	1.074	ng	100
33) Chrysene	21.270	228	533071	1.954	ng	100
36) Indeno(1,2,3-cd)pyrene	25.747	276	1158695	3.631	ng	96
37) Benzo(b)fluoranthene	22.803	252	324411	1.192	ng	99
38) Benzo(k)fluoranthene	22.848	252	1176703	4.379	ng	98
39) Benzo(a)pyrene	23.378	252	1077484	4.349	ng	99
40) Dibenzo(a,h)anthracene	25.767	278	434906	1.669	ng	99
41) Benzo(g,h,i)perylene	26.442	276	453568	1.653	ng	99

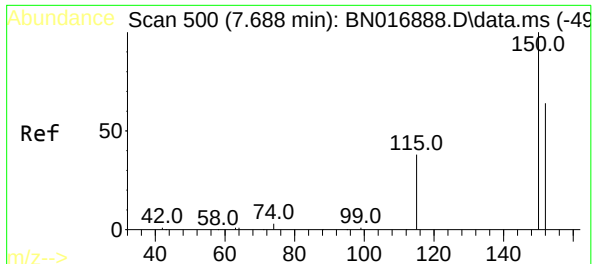
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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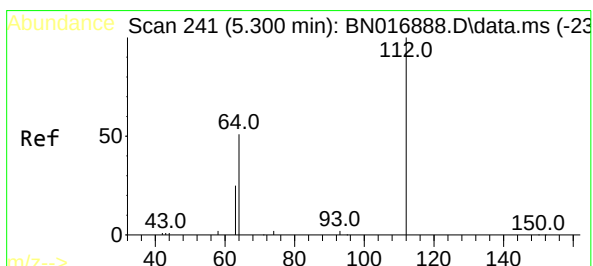
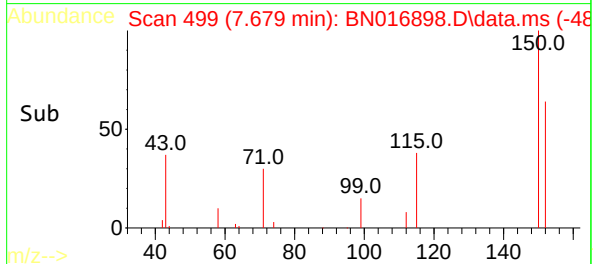
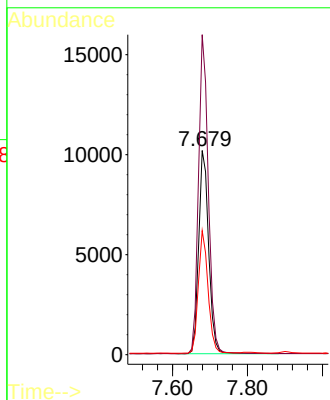
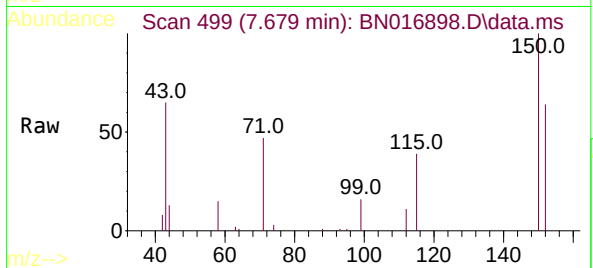




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.679 min Scan# 49
Delta R.T. -0.009 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

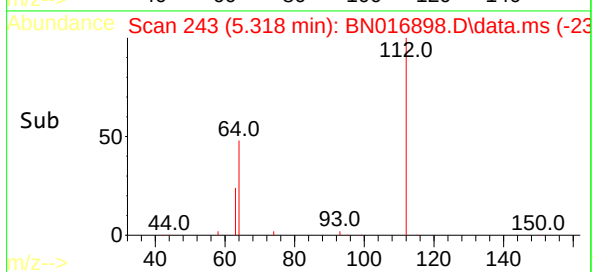
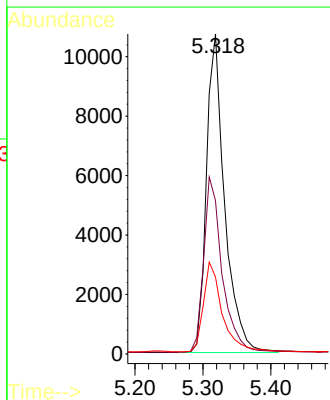
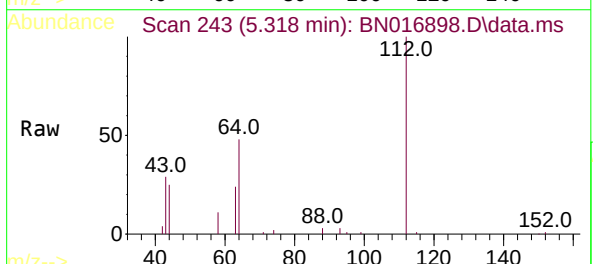
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

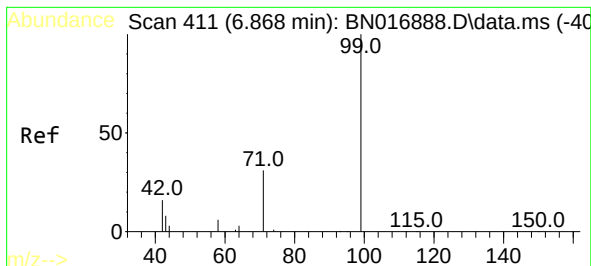
Tgt Ion:152 Resp: 18699
Ion Ratio Lower Upper
152 100
150 156.7 124.2 186.4
115 60.7 47.0 70.6



#4
2-Fluorophenol
Concen: 0.416 ng
RT: 5.318 min Scan# 243
Delta R.T. 0.018 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion:112 Resp: 19907
Ion Ratio Lower Upper
112 100
64 56.0 44.5 66.7
63 29.1 22.1 33.1





#5

Phenol-d6

Concen: 0.441 ng

RT: 6.868 min Scan# 411

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

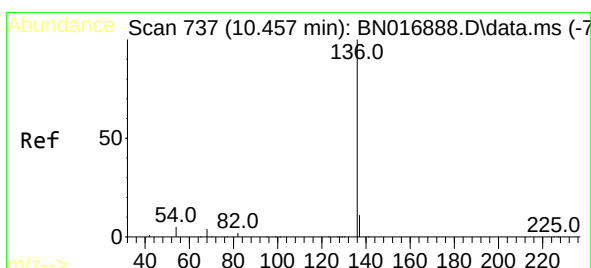
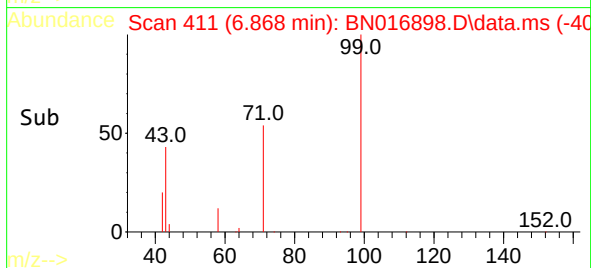
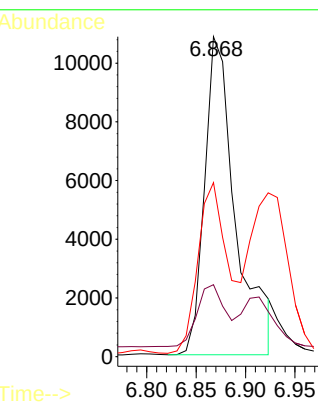
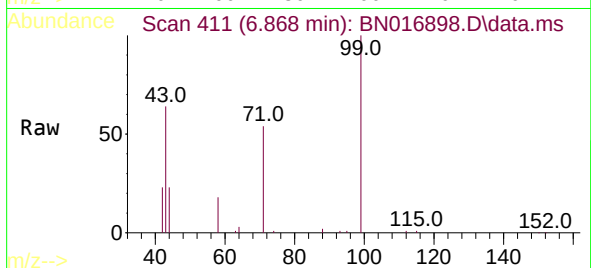
Tgt Ion: 99 Resp: 23677

Ion Ratio Lower Upper

99 100

42 17.7 13.9 20.9

71 53.5 24.5 36.7#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.444 min Scan# 736

Delta R.T. -0.013 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Tgt Ion:136 Resp: 85794

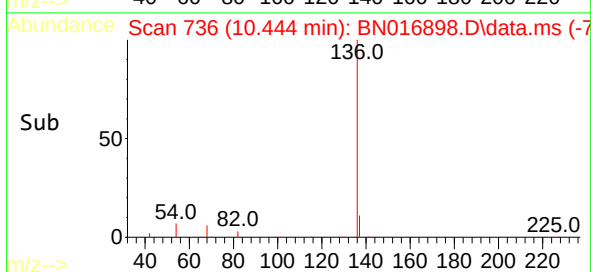
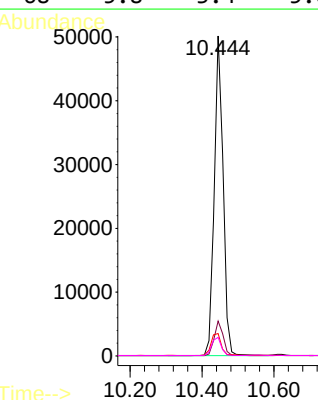
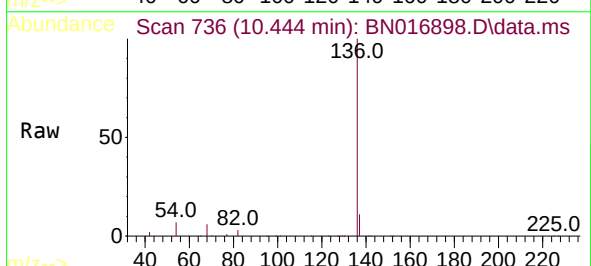
Ion Ratio Lower Upper

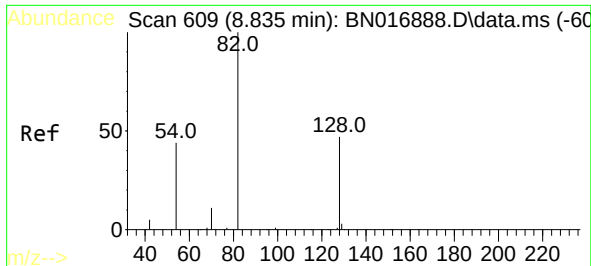
136 100

137 10.9 8.8 13.2

54 7.0 3.8 5.6#

68 5.8 3.4 5.0#

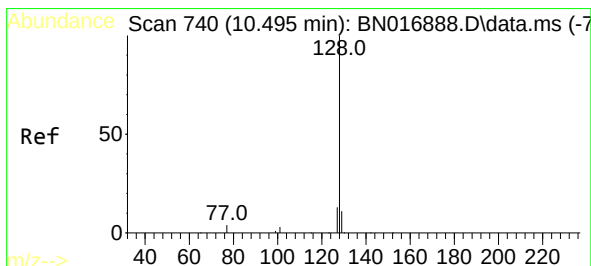
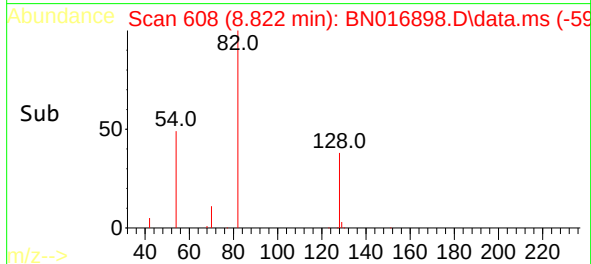
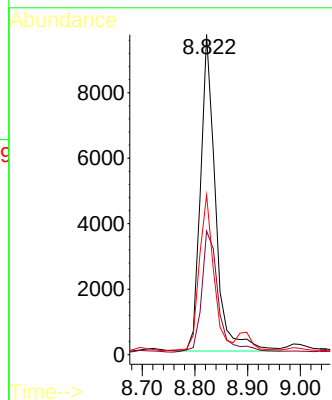
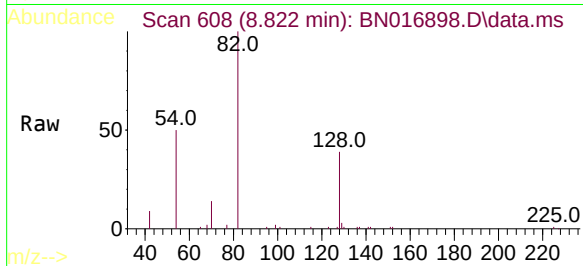




#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.822 min Scan# 609
Delta R.T. -0.013 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

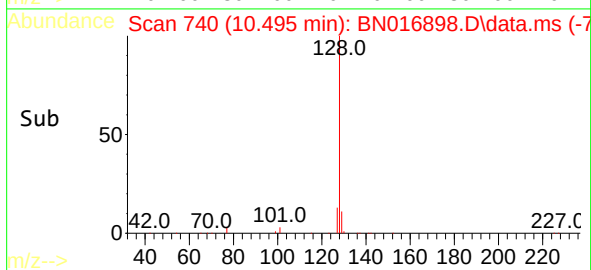
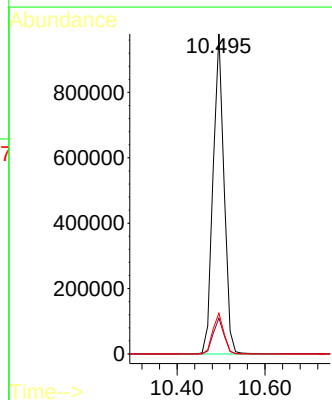
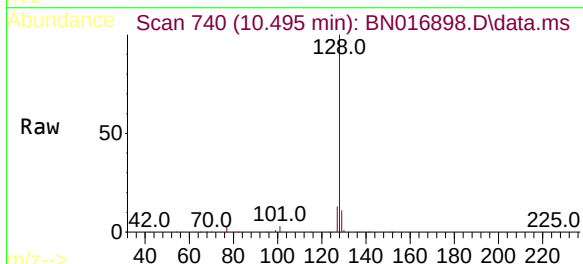
Instrument :
BNA_N
ClientSampleId :
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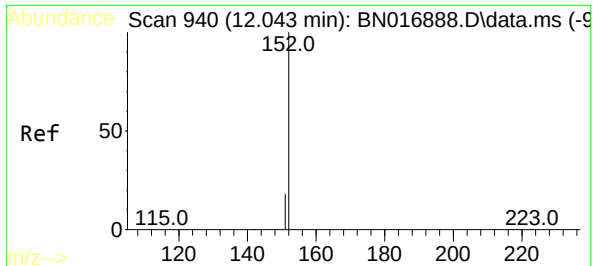
Tgt Ion: 82 Resp: 19171
Ion Ratio Lower Upper
82 100
128 38.7 37.8 56.6
54 49.9 35.3 52.9



#9
Naphthalene
Concen: 7.198 ng
RT: 10.495 min Scan# 740
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion: 128 Resp: 1683445
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 12.8 10.7 16.1

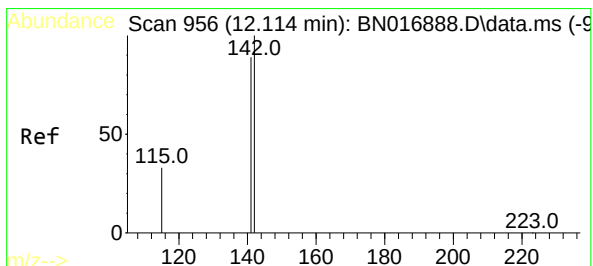
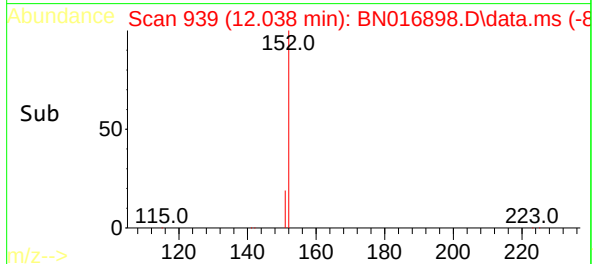
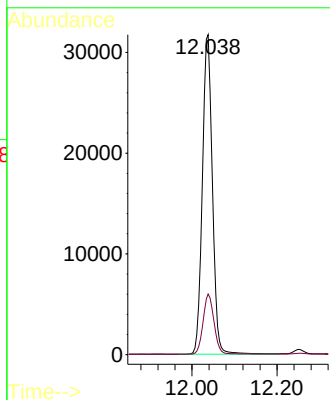
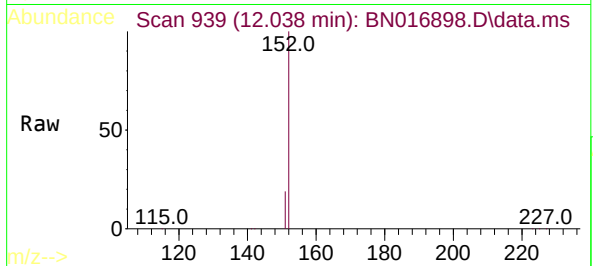




#11
2-Methylnaphthalene-d10
Concen: 0.418 ng
RT: 12.038 min Scan# 911
Delta R.T. -0.005 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

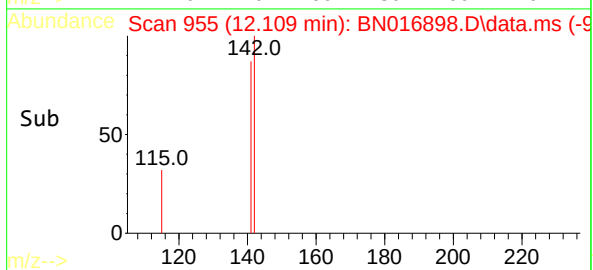
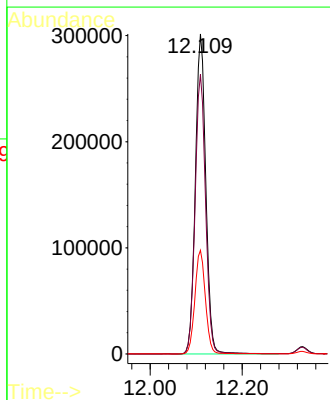
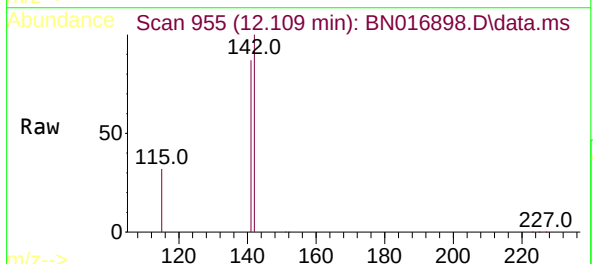
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

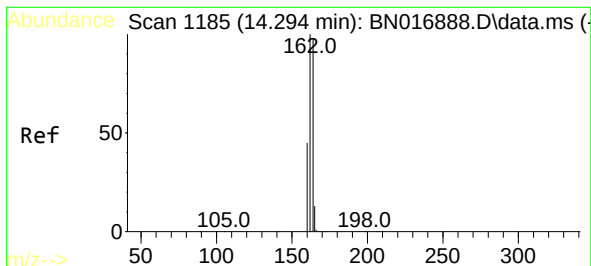
Tgt Ion:152 Resp: 51965
Ion Ratio Lower Upper
152 100
151 20.4 16.3 24.5



#12
2-Methylnaphthalene
Concen: 3.251 ng
RT: 12.109 min Scan# 955
Delta R.T. -0.005 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion:142 Resp: 475282
Ion Ratio Lower Upper
142 100
141 87.4 71.0 106.4
115 32.4 26.6 40.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.294 min Scan# 1185

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

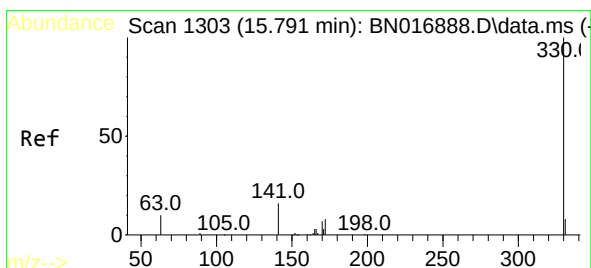
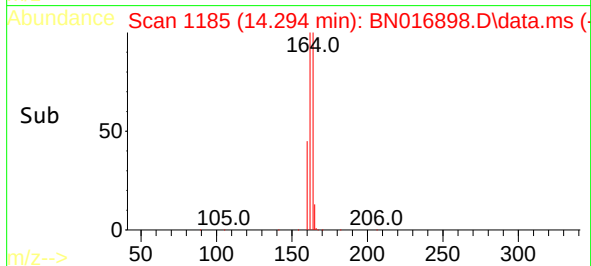
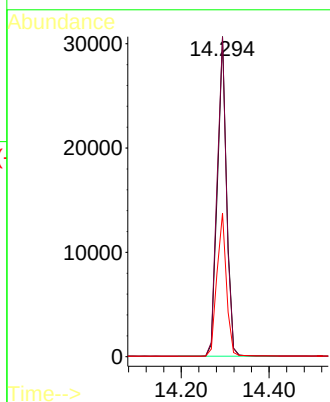
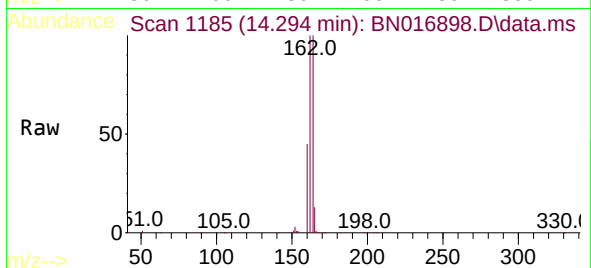
Tgt Ion:164 Resp: 44410

Ion Ratio Lower Upper

164 100

162 100.0 81.8 122.8

160 44.8 37.0 55.4



#14

2,4,6-Tribromophenol

Concen: 0.256 ng

RT: 15.791 min Scan# 1303

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

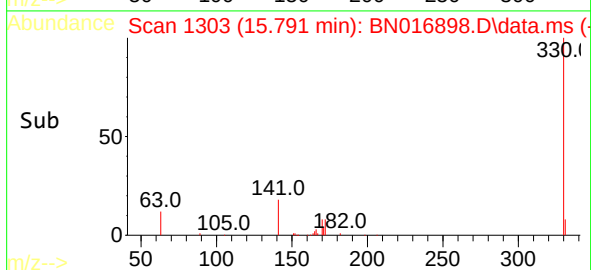
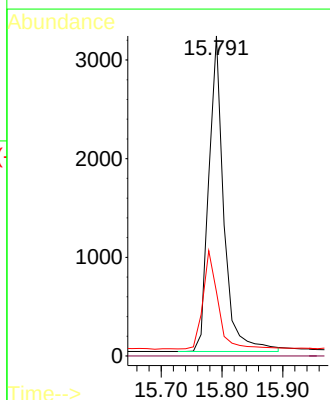
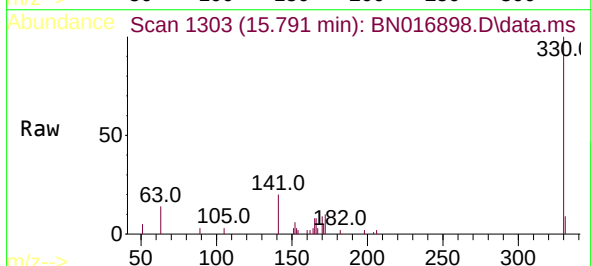
Tgt Ion:330 Resp: 5512

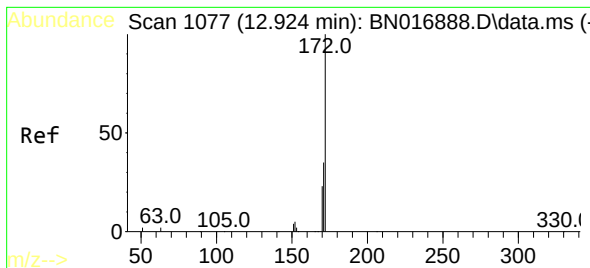
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 31.2 24.3 36.5

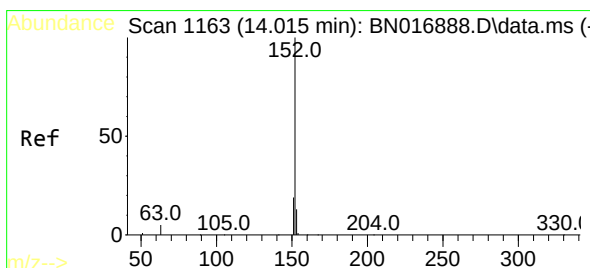
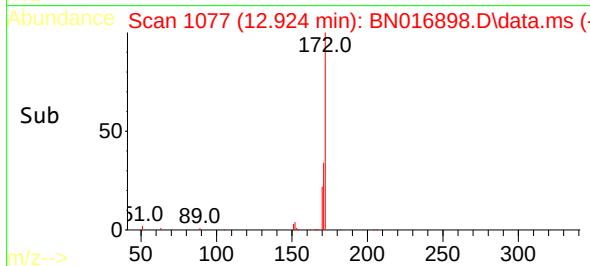
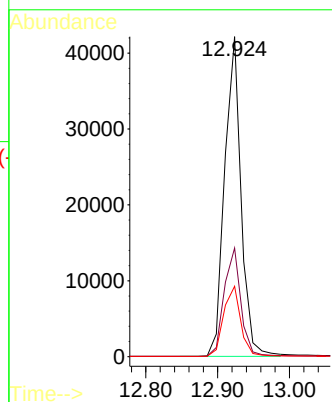
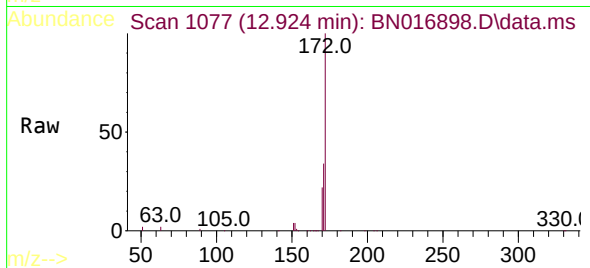




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.924 min Scan# 1077
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

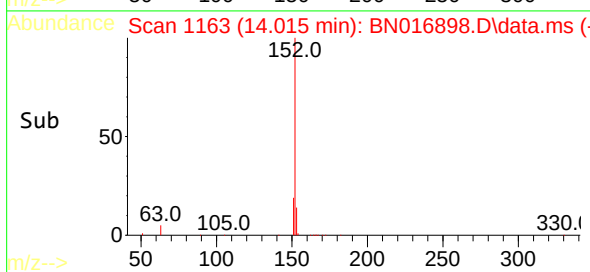
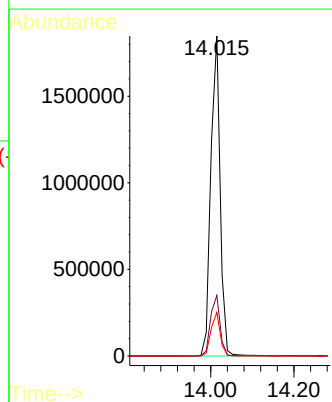
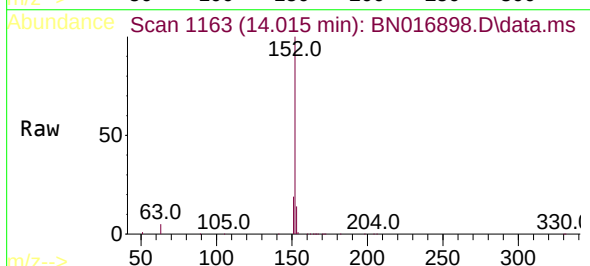
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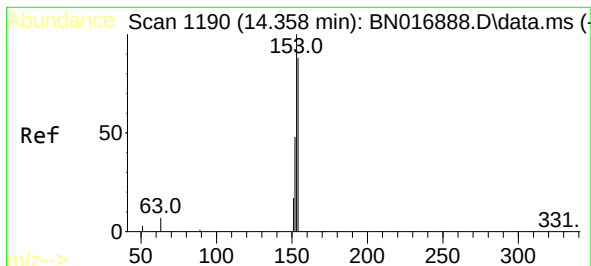
Tgt Ion:172 Resp: 66700
Ion Ratio Lower Upper
172 100
171 33.9 27.7 41.5
170 22.0 18.3 27.5



#16
Acenaphthylene
Concen: 15.151 ng
RT: 14.015 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion:152 Resp: 2870756
Ion Ratio Lower Upper
152 100
151 19.4 15.5 23.3
153 13.4 10.4 15.6





#17

Acenaphthene

Concen: 6.838 ng

RT: 14.357 min Scan# 1190

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

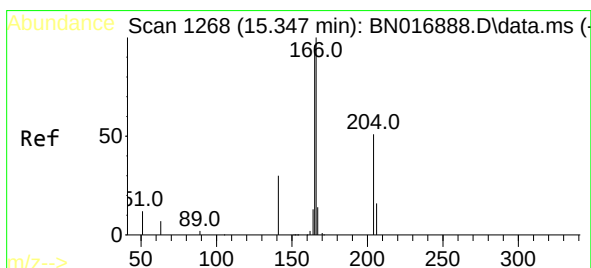
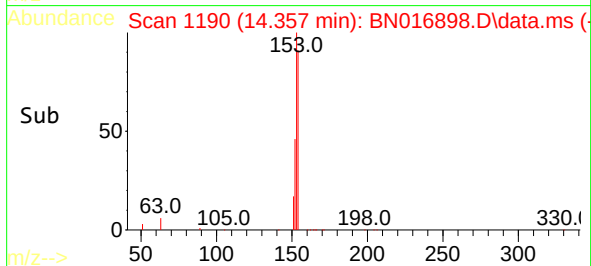
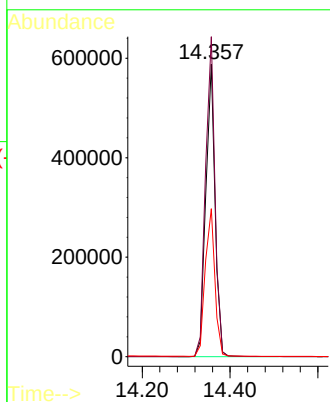
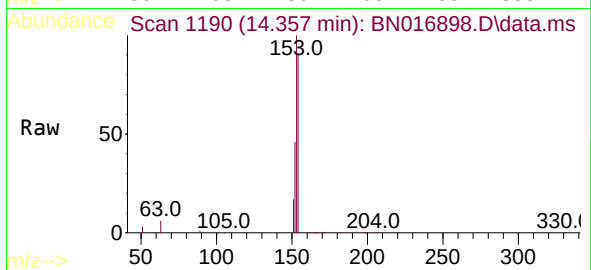
Tgt Ion:154 Resp: 860743

Ion Ratio Lower Upper

154 100

153 111.7 90.6 135.8

152 53.0 43.7 65.5



#18

Fluorene

Concen: 4.836 ng

RT: 15.347 min Scan# 1268

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

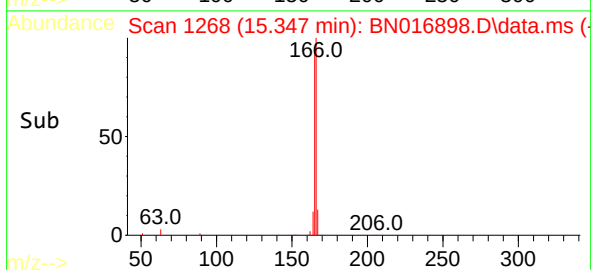
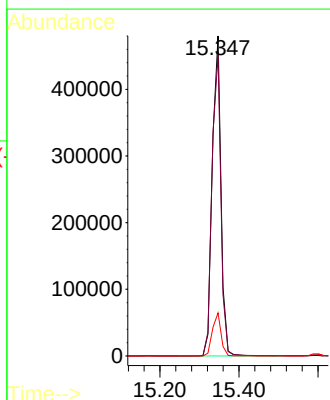
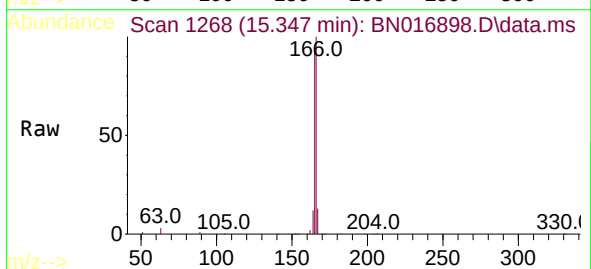
Tgt Ion:166 Resp: 734821

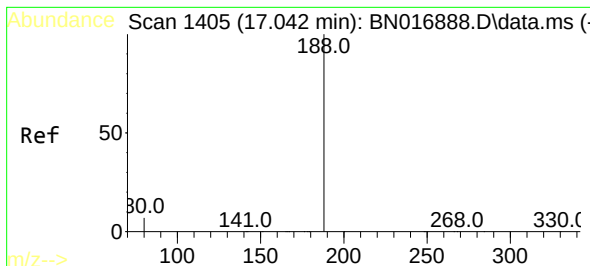
Ion Ratio Lower Upper

166 100

165 96.4 78.2 117.2

167 13.3 10.8 16.2

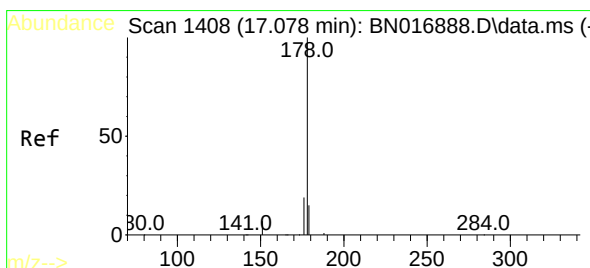
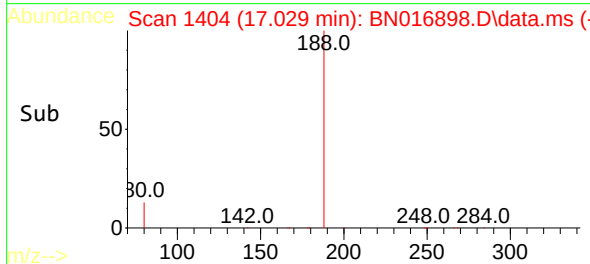
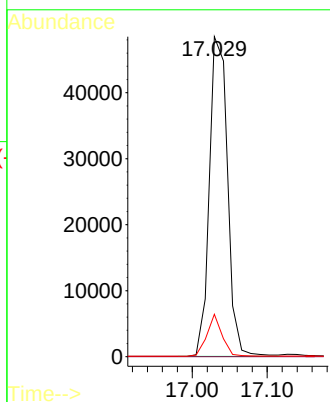
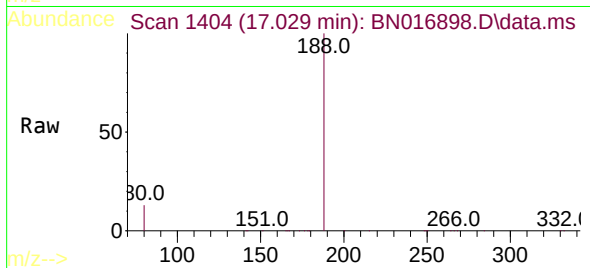




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.029 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

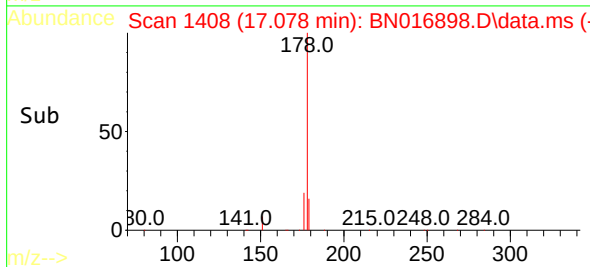
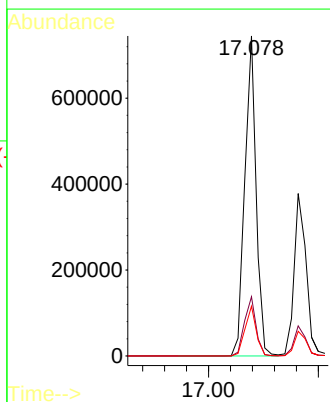
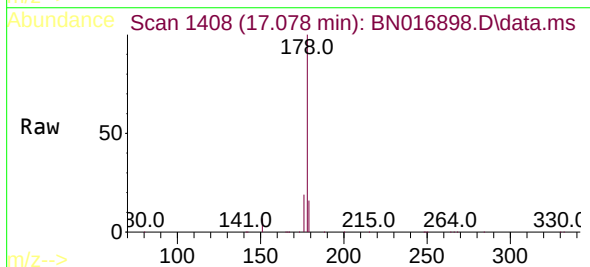
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

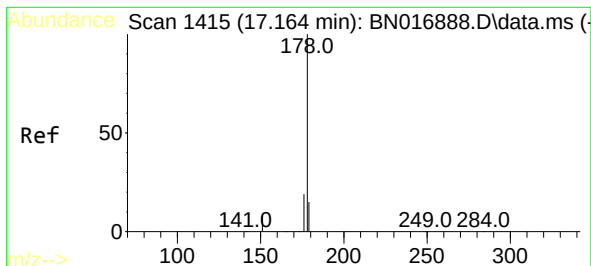
Tgt Ion:188 Resp: 81699
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.2 5.4 8.2#



#25
Phenanthrene
Concen: 4.520 ng
RT: 17.078 min Scan# 1408
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion:178 Resp: 1060662
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5





#26

Anthracene

Concen: 2.785 ng

RT: 17.163 min Scan# 1415

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

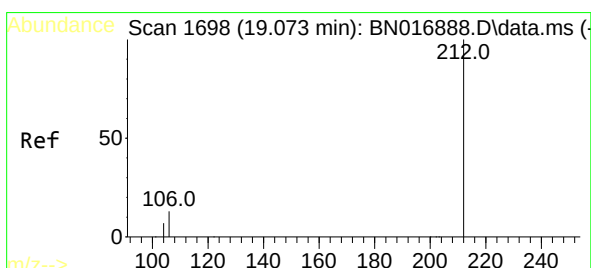
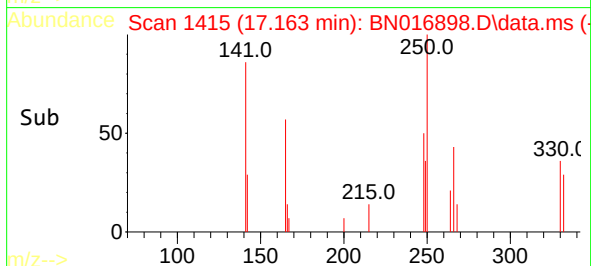
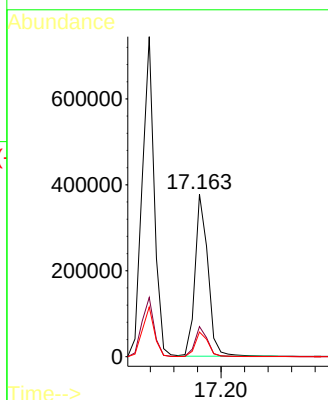
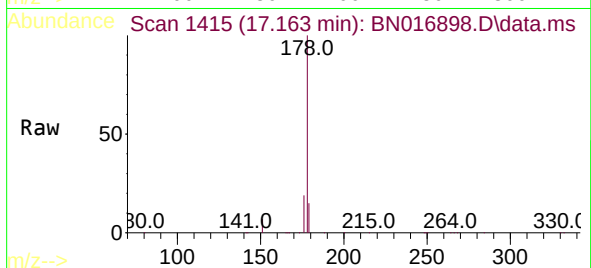
Tgt Ion:178 Resp: 574324

Ion Ratio Lower Upper

178 100

176 18.2 14.6 22.0

179 15.4 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.416 ng

RT: 19.073 min Scan# 1698

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

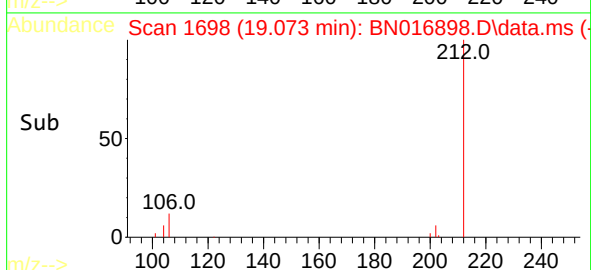
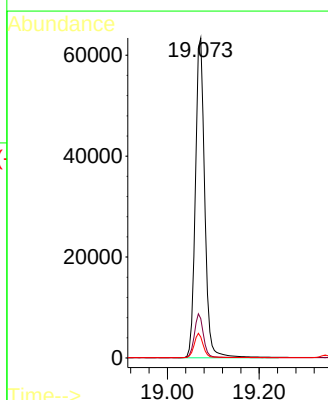
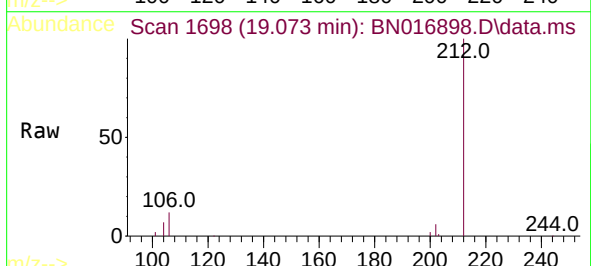
Tgt Ion:212 Resp: 89262

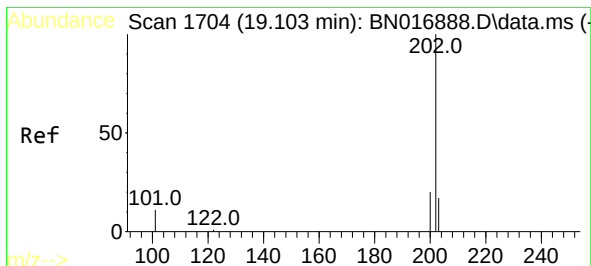
Ion Ratio Lower Upper

212 100

106 13.4 10.8 16.2

104 7.4 5.9 8.9

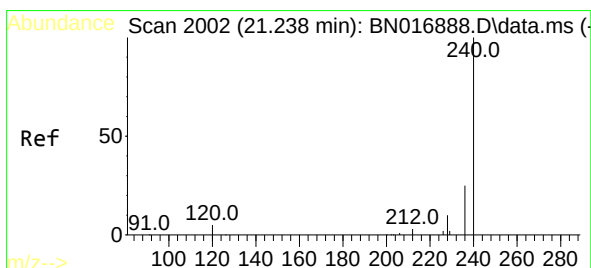
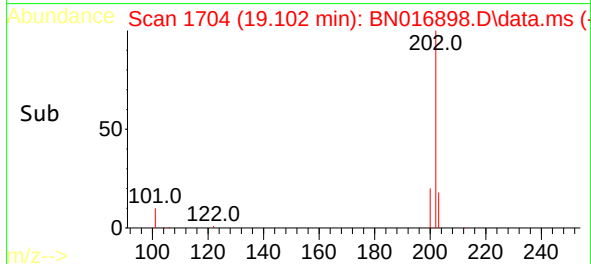
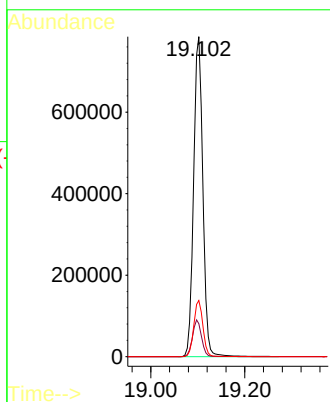
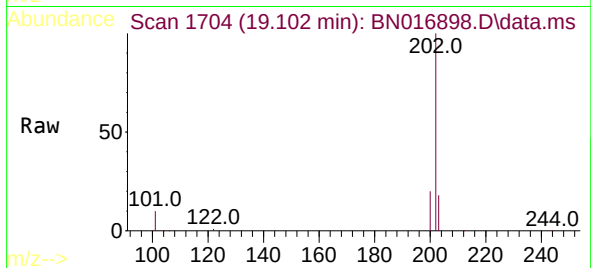




#28
Fluoranthene
Concen: 4.141 ng
RT: 19.102 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

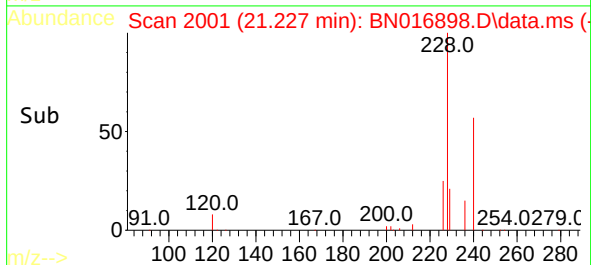
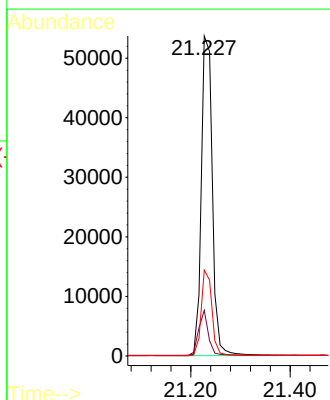
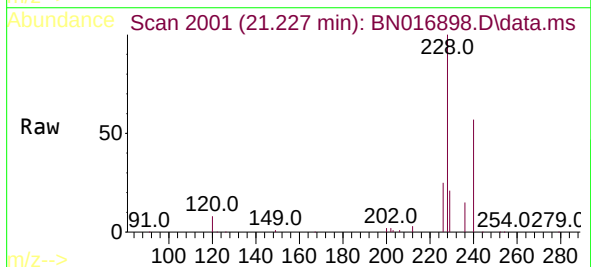
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

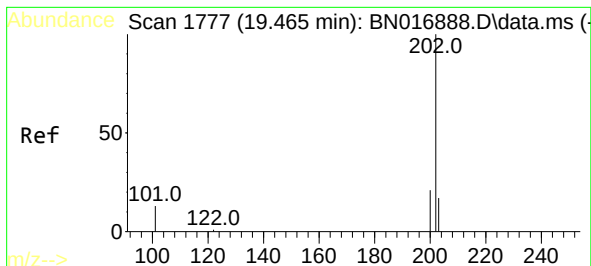
Tgt Ion:202 Resp: 1069264
Ion Ratio Lower Upper
202 100
101 11.3 9.0 13.6
203 17.4 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.227 min Scan# 2001
Delta R.T. -0.011 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Tgt Ion:240 Resp: 83036
Ion Ratio Lower Upper
240 100
120 14.2 4.1 6.1#
236 26.9 20.1 30.1





#30

Pyrene

Concen: 2.339 ng

RT: 19.465 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

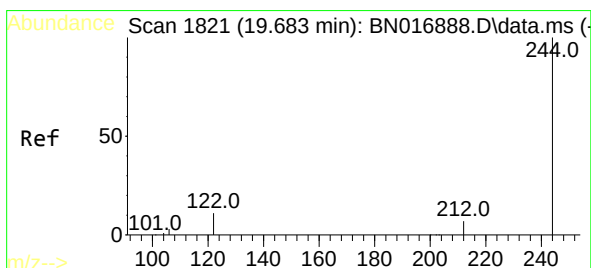
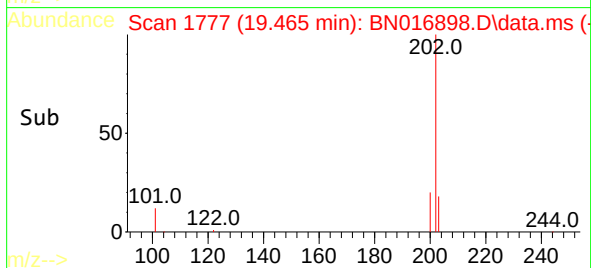
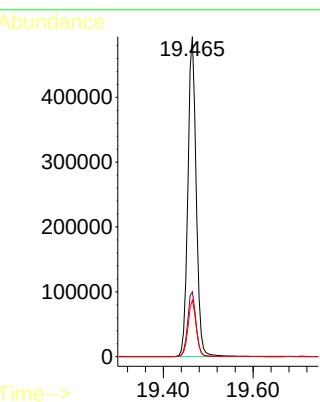
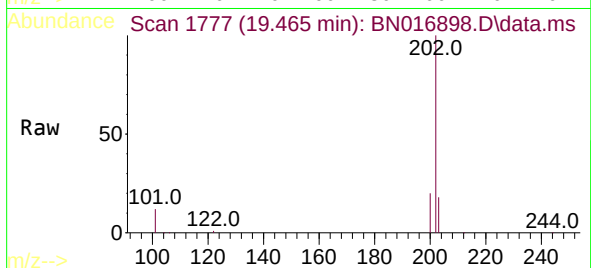
Tgt Ion:202 Resp: 637065

Ion Ratio Lower Upper

202 100

200 20.5 16.4 24.6

203 17.6 14.0 21.0



#31

Terphenyl-d14

Concen: 0.390 ng

RT: 19.678 min Scan# 1820

Delta R.T. -0.005 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

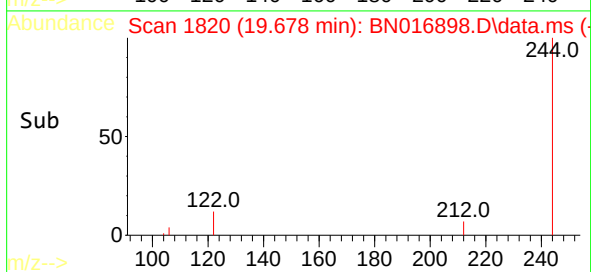
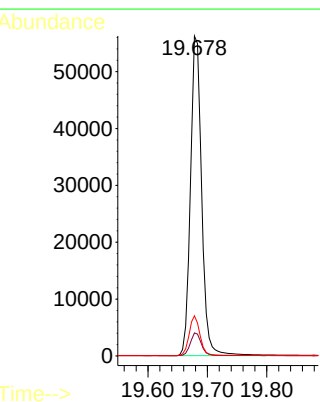
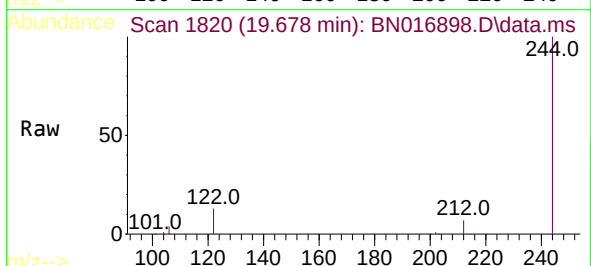
Tgt Ion:244 Resp: 73718

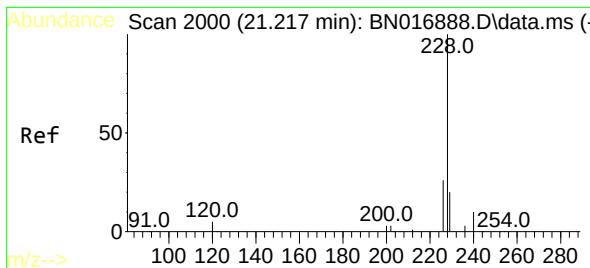
Ion Ratio Lower Upper

244 100

212 7.2 5.5 8.3

122 12.5 8.6 13.0





#32

Benzo(a)anthracene

Concen: 1.074 ng

RT: 21.216 min Scan# 2000

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

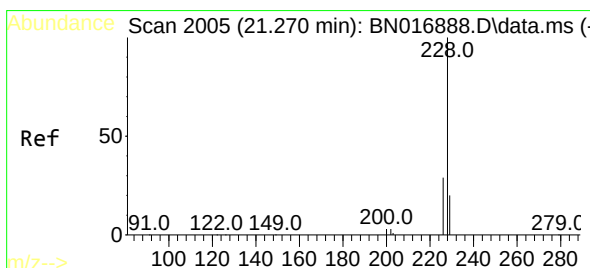
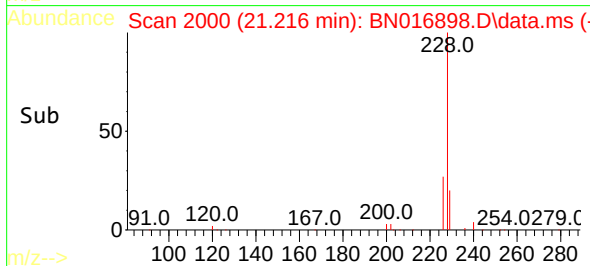
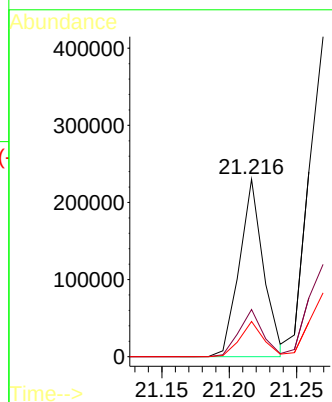
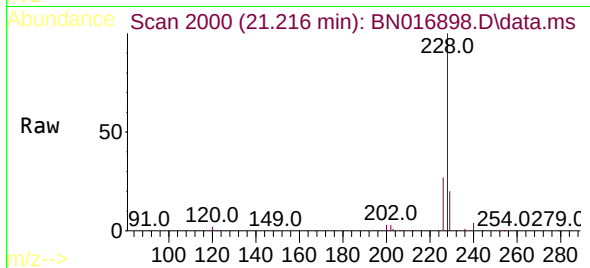
Tgt Ion:228 Resp: 285523

Ion Ratio Lower Upper

228 100

226 26.6 21.2 31.8

229 19.8 15.8 23.6



#33

Chrysene

Concen: 1.954 ng

RT: 21.270 min Scan# 2005

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

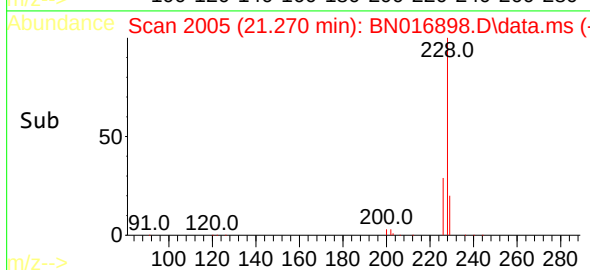
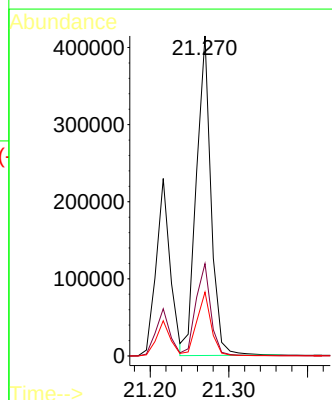
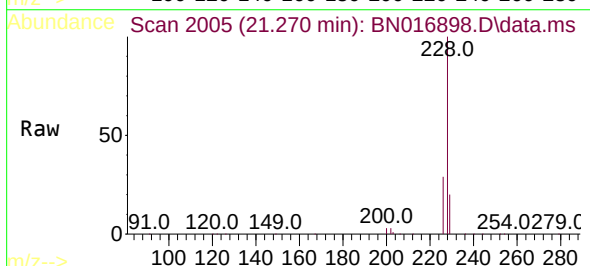
Tgt Ion:228 Resp: 533071

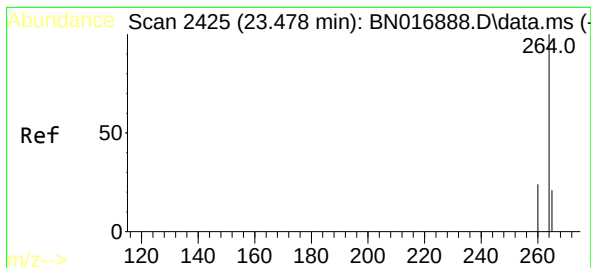
Ion Ratio Lower Upper

228 100

226 28.9 23.3 34.9

229 19.9 15.8 23.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.477 min Scan# 24

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

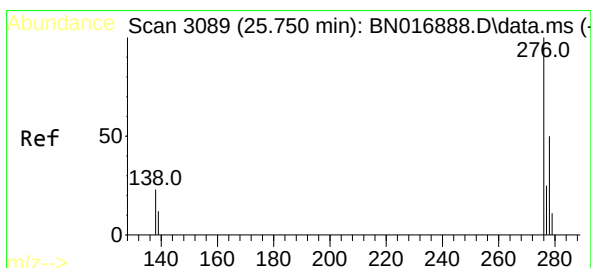
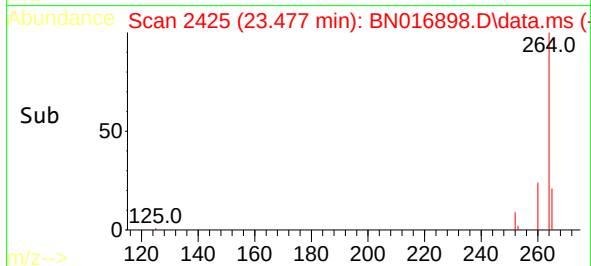
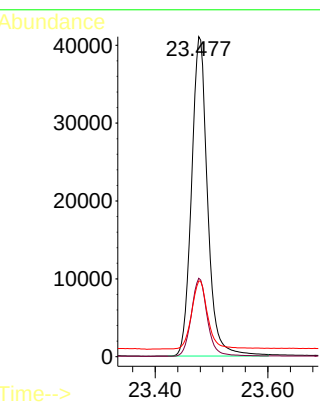
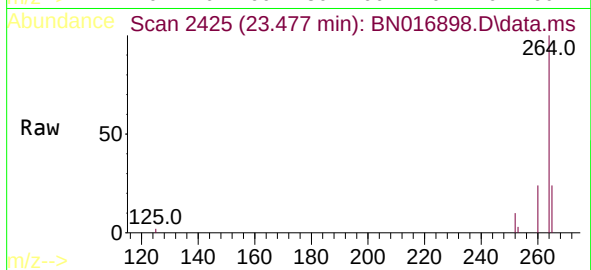
Tgt Ion:264 Resp: 81407

Ion Ratio Lower Upper

264 100

260 24.5 19.4 29.2

265 23.7 19.2 28.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.631 ng

RT: 25.747 min Scan# 3088

Delta R.T. -0.004 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

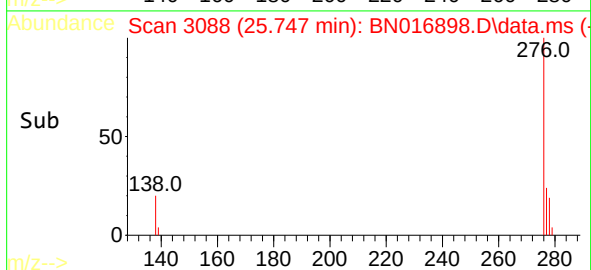
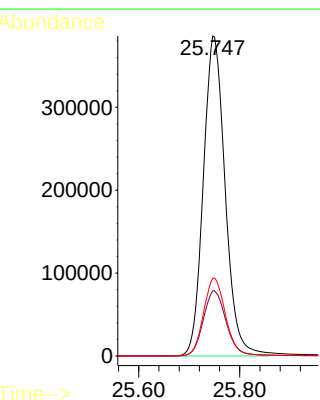
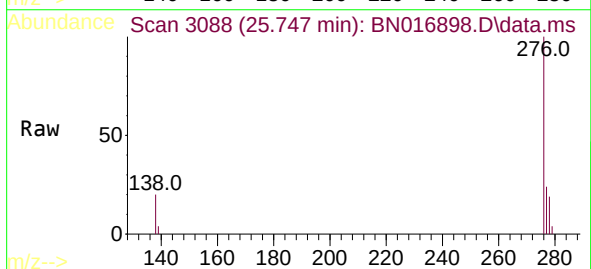
Tgt Ion:276 Resp: 1158695

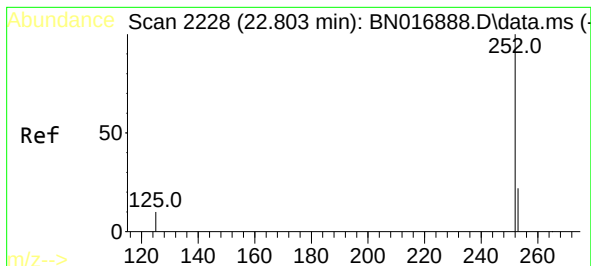
Ion Ratio Lower Upper

276 100

138 21.3 20.1 30.1

277 24.5 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 1.192 ng

RT: 22.803 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

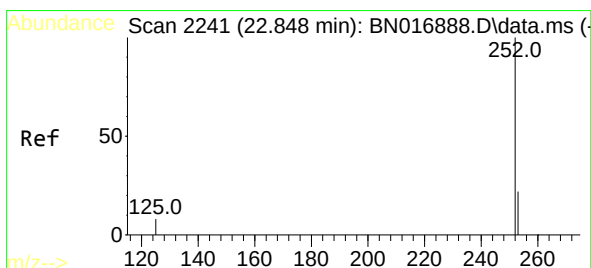
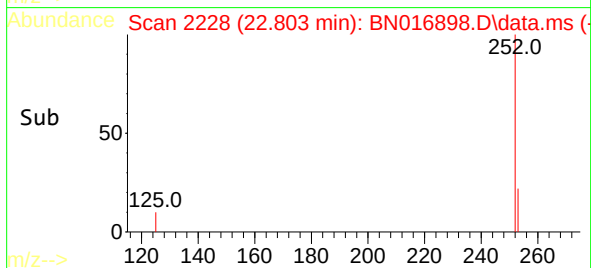
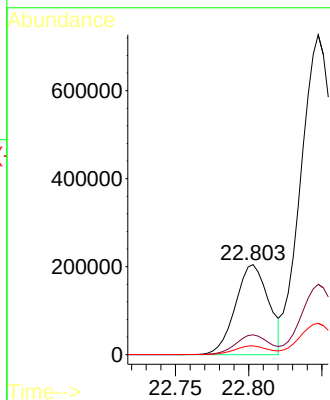
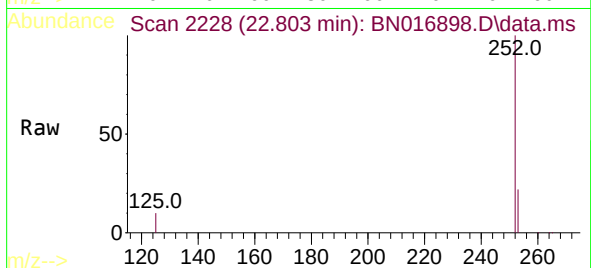
Tgt Ion:252 Resp: 324411

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

125 9.8 8.1 12.1



#38

Benzo(k)fluoranthene

Concen: 4.379 ng

RT: 22.848 min Scan# 2241

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

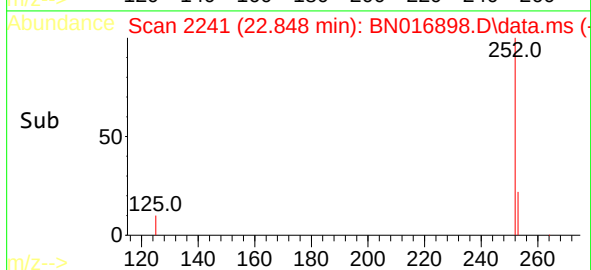
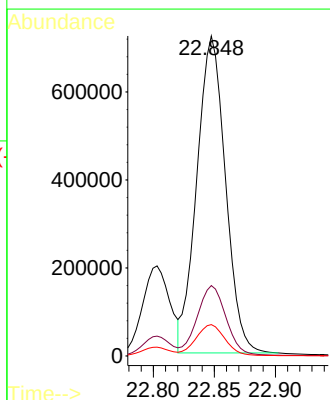
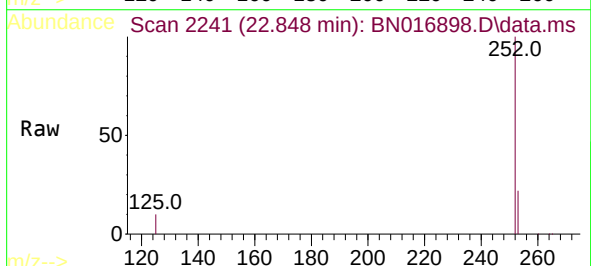
Tgt Ion:252 Resp: 1176703

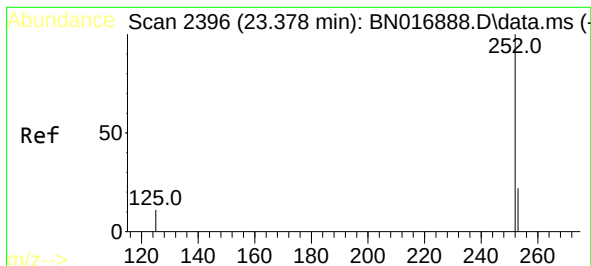
Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

125 9.8 9.0 13.6





#39

Benzo(a)pyrene

Concen: 4.349 ng

RT: 23.378 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

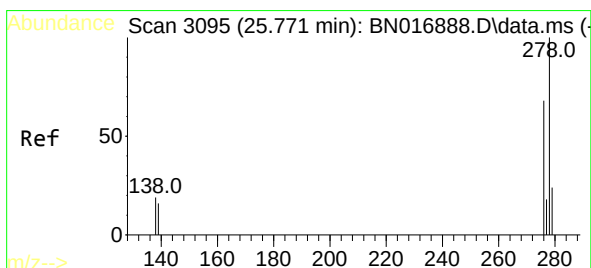
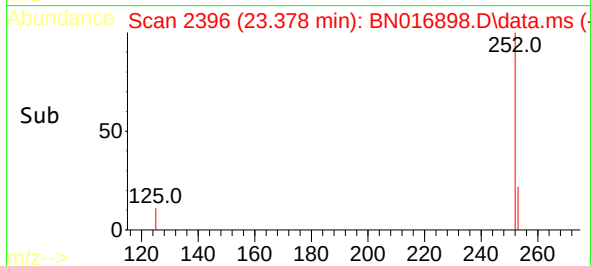
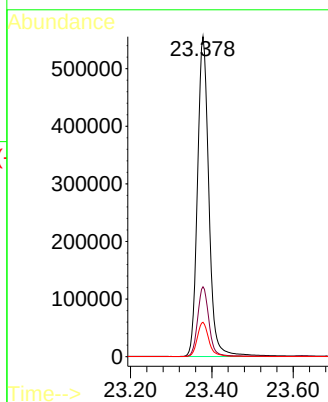
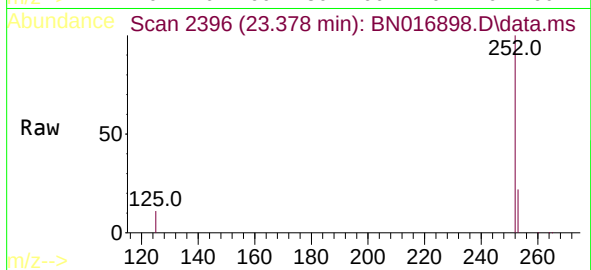
Tgt Ion:252 Resp: 1077484

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.8

125 10.8 9.0 13.6



#40

Dibenzo(a,h)anthracene

Concen: 1.669 ng

RT: 25.767 min Scan# 3094

Delta R.T. -0.004 min

Lab File: BN016898.D

Acq: 12 Oct 2021 12:14

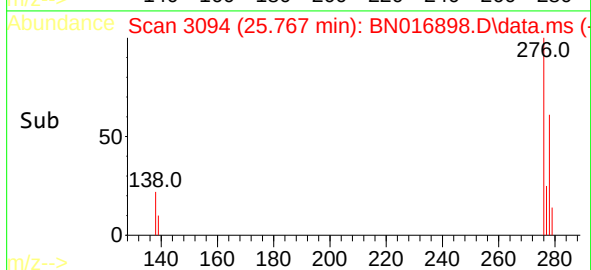
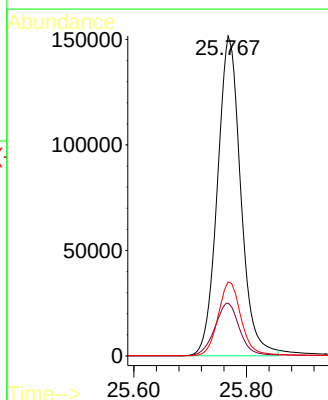
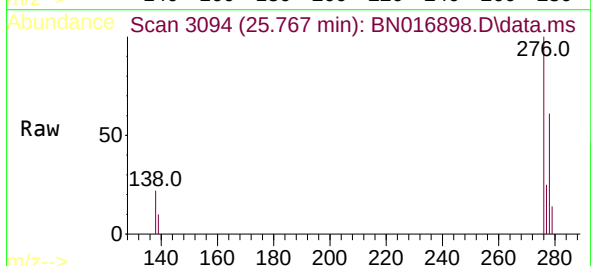
Tgt Ion:278 Resp: 434906

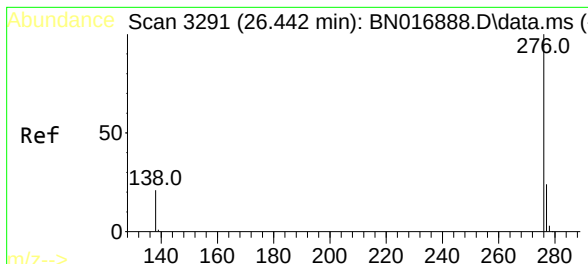
Ion Ratio Lower Upper

278 100

139 16.5 13.4 20.0

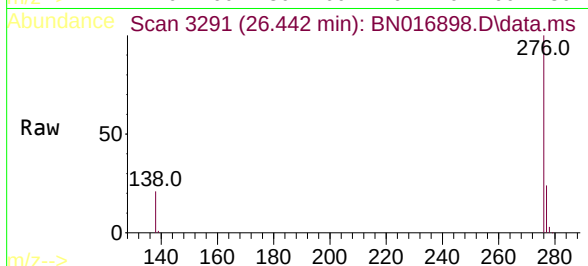
279 23.2 19.2 28.8





#41
Benzo(g,h,i)perylene
Concen: 1.653 ng
RT: 26.442 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN016898.D
Acq: 12 Oct 2021 12:14

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:276 Resp: 453568

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.6
138	20.7	16.7	25.1

