

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007116.D
 Acq On : 13 Aug 2019 05:42
 Operator : HP/JU
 Sample : K4144-02
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 08:23:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9714	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37957	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	23234	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53452	0.40	ng	0.00
26) Chrysene-d12	21.05	240	51773	0.40	ng	-0.01
32) Perylene-d12	23.16	264	57635	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5974	0.26	ng	0.00
4) Phenol-d6	6.61	99	7985	0.28	ng	0.00
7) Nitrobenzene-d5	8.56	82	6657	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14911	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2680	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3632	0.11	ng	0.00
24) Fluoranthene-d10	18.87	212	39194	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	30599	0.22	ng	-0.01

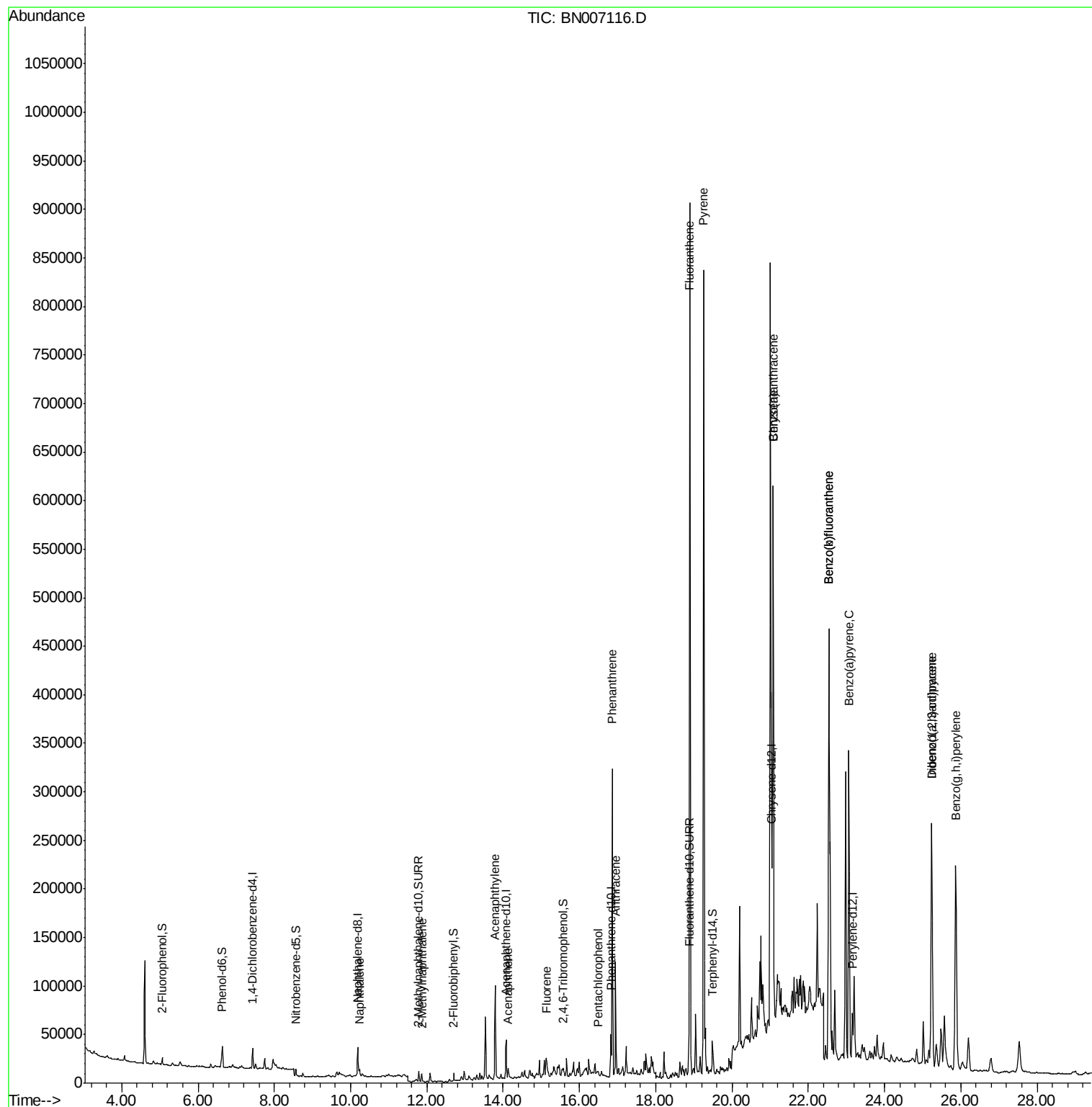
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	9755	0.092	ng	# 94
11) 2-Methylnaphthalene	11.87	142	6289	0.083	ng	# 92
15) Acenaphthylene	13.79	152	119225	0.982	ng	99
16) Acenaphthene	14.13	154	6180	0.079	ng	95
17) Fluorene	15.13	166	17898	0.154	ng	# 79
21) Pentachlorophenol	16.48	266	326	0.028	ng	# 83
22) Phenanthrene	16.87	178	318527	1.988	ng	100
23) Anthracene	16.95	178	125559	0.858	ng	97
25) Fluoranthene	18.90	202	816655	3.985	ng	99
27) Pylene	19.26	202	778338	4.287	ng	# 95
29) Benzo(a)anthracene	21.08	228	518347	2.738	ng	94
30) Chrysene	21.08	228	518347	2.818	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	379316	1.871	ng	99
33) Benzo(b)fluoranthene	22.54	252	718775	3.637	ng	# 98
34) Benzo(k)fluoranthene	22.54	252	718775	3.683	ng	# 98
35) Benzo(a)pyrene	23.07	252	430614	2.403	ng	98
36) Dibenzo(a,h)anthracene	25.25	278	92115	0.515	ng	# 76
37) Benzo(a,h,i)perylene	25.87	276	419028	2.279	ng	98

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

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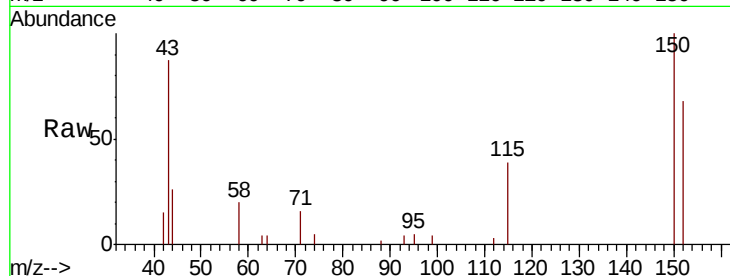


#1

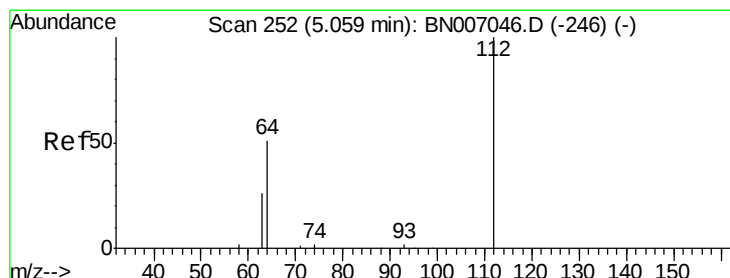
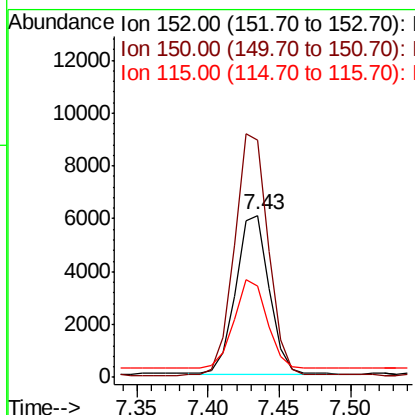
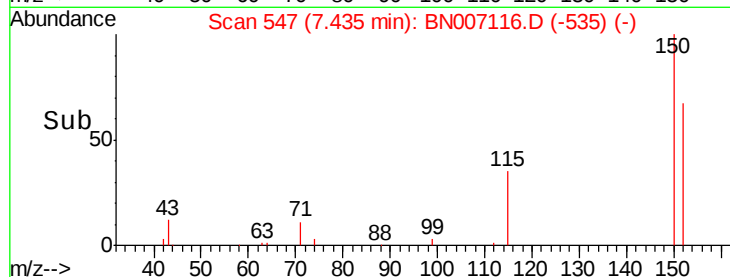
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9714
Ion Ratio Lower Upper
152 100
150 146.9 121.7 182.5
115 56.7 46.2 69.4



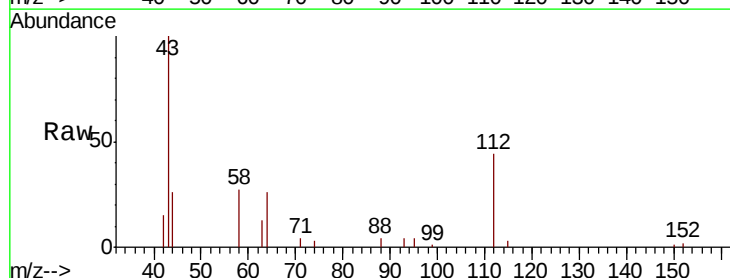
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



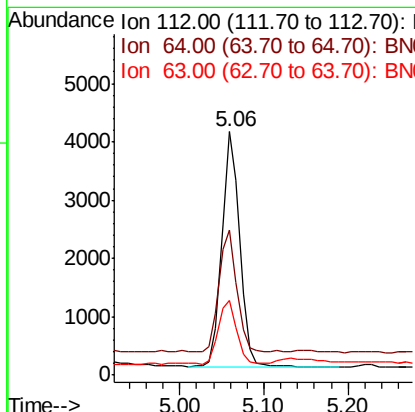
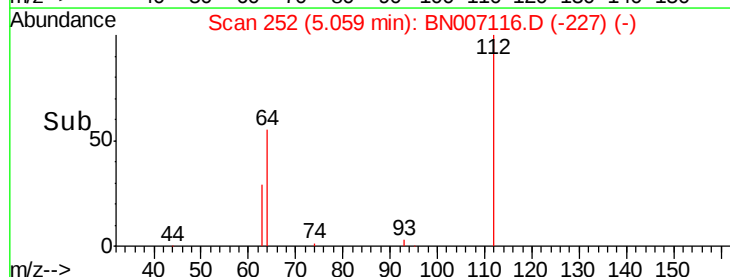
#3

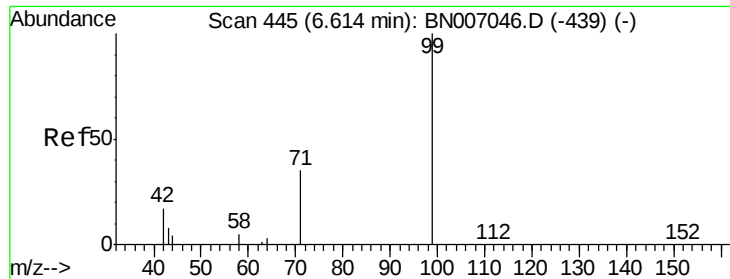
2-Fluorophenol
Concen: 0.256 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion:112 Resp: 5974
Ion Ratio Lower Upper
112 100
64 51.5 42.6 63.8
63 26.9 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.276 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

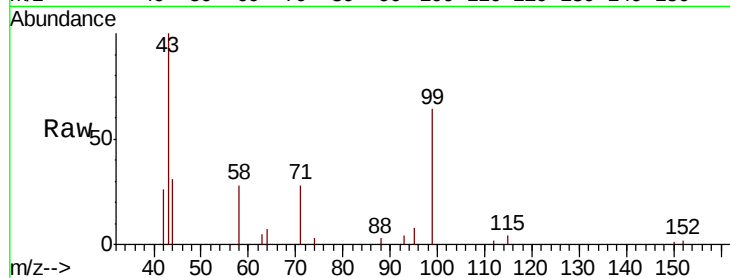
Tot Ion: 99 Resp: 7985

Ion Ratio Lower Upper

99 100

42 42.8 15.8 23.6#

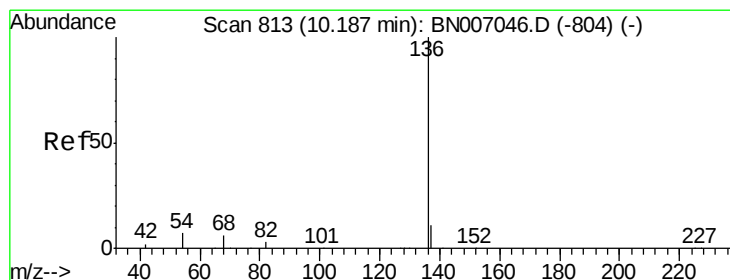
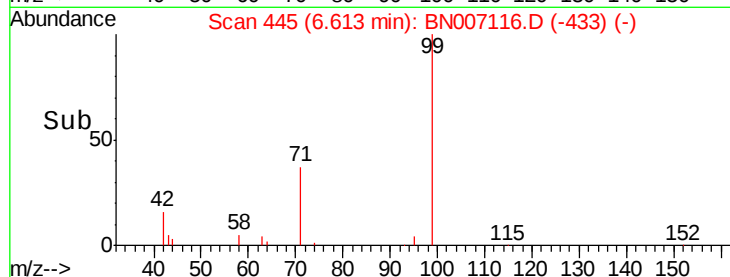
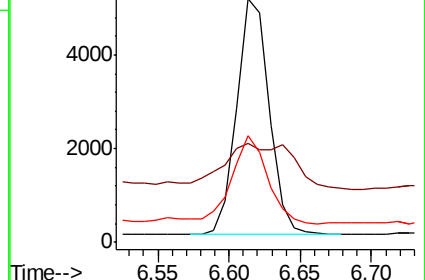
71 41.9 27.0 40.4#



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion: 136 Resp: 37957

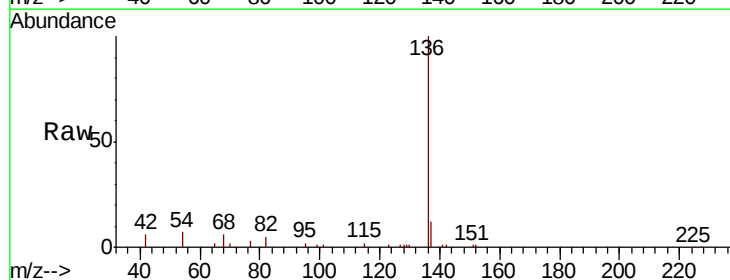
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 6.5 6.6 9.8#

68 6.4 6.0 9.0

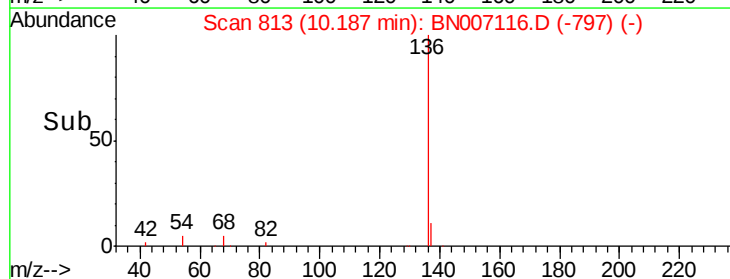
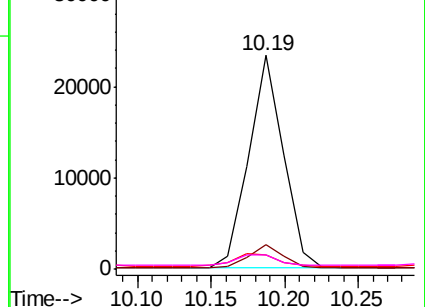


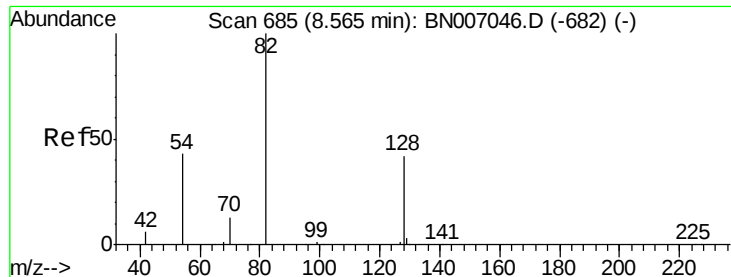
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.218 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampled :

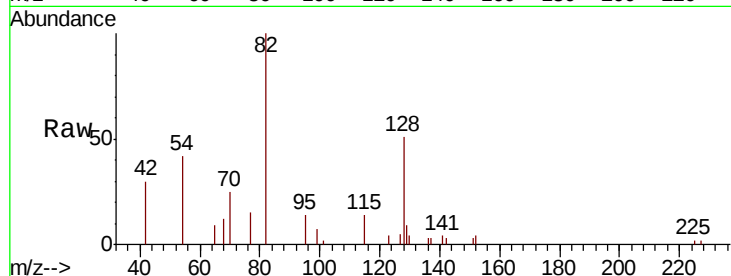
Tot Ion: 82 Resp: 6657

Ion Ratio Lower Upper

82 100

128 50.6 34.6 51.8

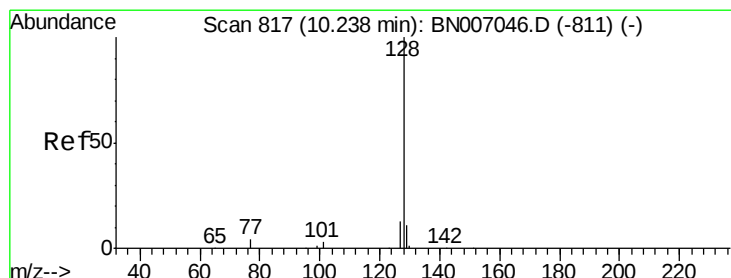
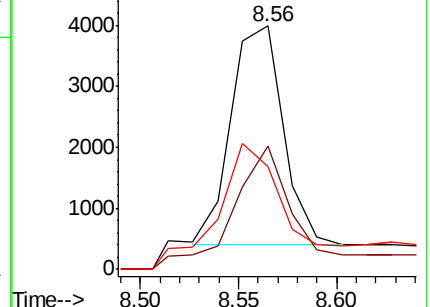
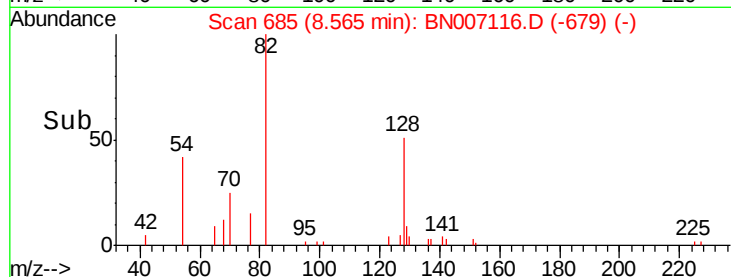
54 42.5 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007116.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007116.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007116.D (-679) (-)



#8

Naphthalene

Concen: 0.092 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

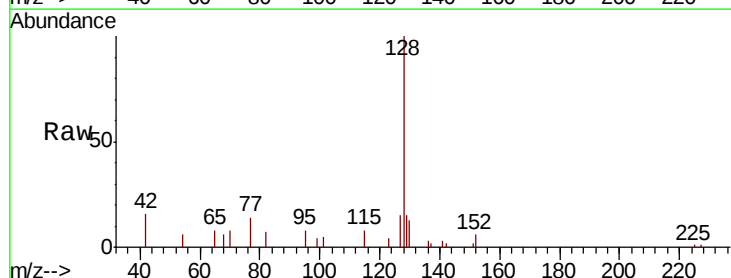
Tgt Ion: 128 Resp: 9755

Ion Ratio Lower Upper

128 100

129 15.3 9.4 14.2#

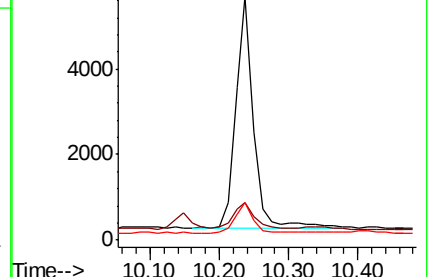
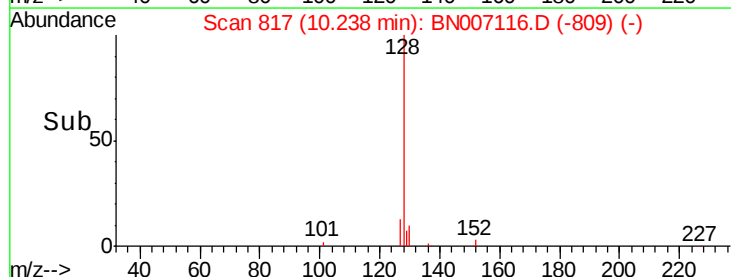
127 15.4 11.0 16.6

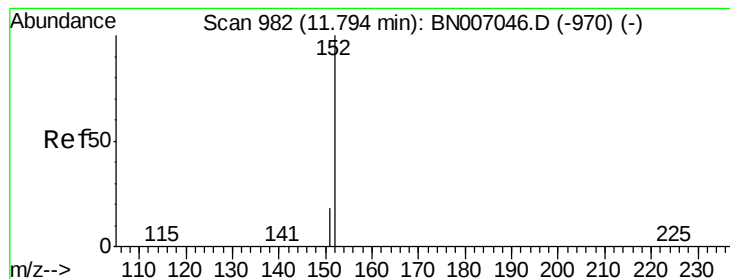


Abundance Ion 128.00 (127.70 to 128.70): BN007116.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007116.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007116.D (-809) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.211 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

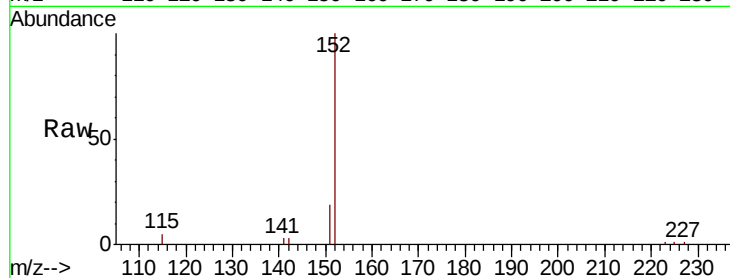
ClientSampled :

Tot Ion:152 Resp: 14911

Ion Ratio Lower Upper

152 100

151 19.8 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

10000

8000

6000

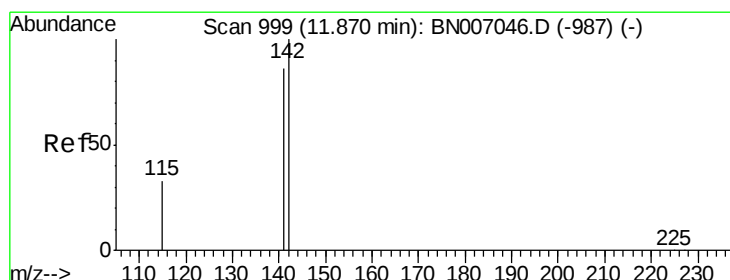
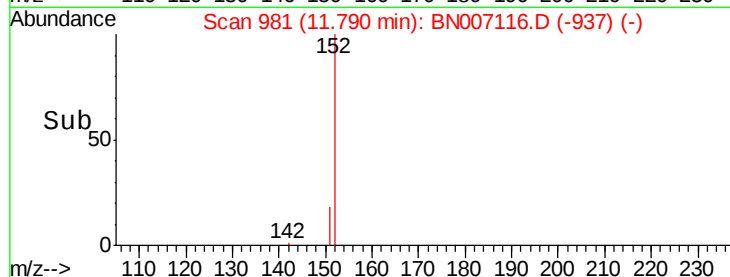
4000

2000

0

Time-->

11.70 11.80



#11

2-Methylnaphthalene

Concen: 0.083 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

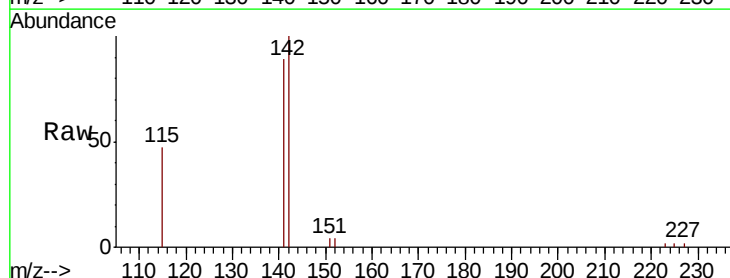
Tgt Ion:142 Resp: 6289

Ion Ratio Lower Upper

142 100

141 88.9 69.0 103.6

115 46.9 27.1 40.7#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.87

5000

4000

3000

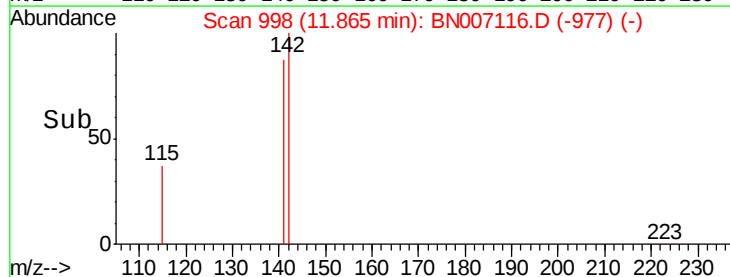
2000

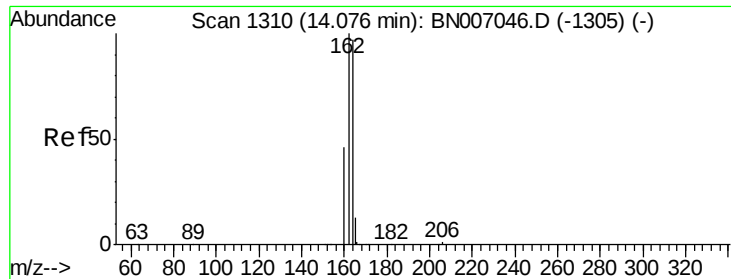
1000

0

Time-->

11.80 11.85 11.90 11.95





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

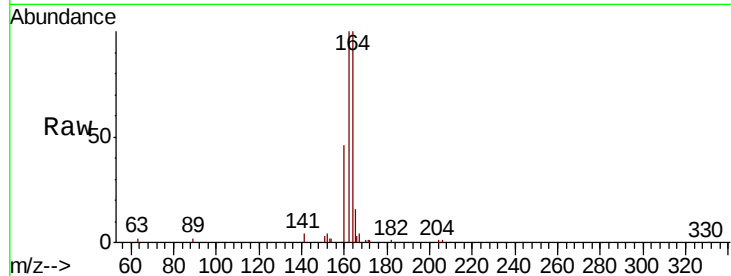
Tot Ion:164 Resp: 23234

Ion Ratio Lower Upper

164 100

162 99.6 82.2 123.4

160 45.6 38.3 57.5

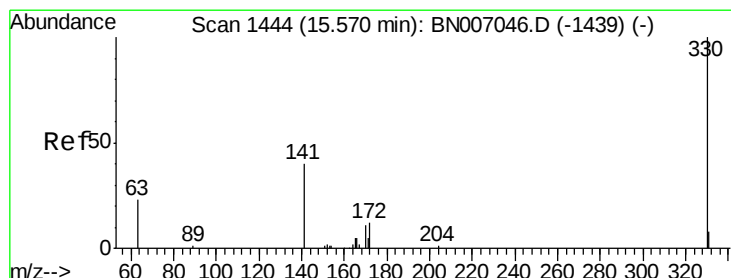
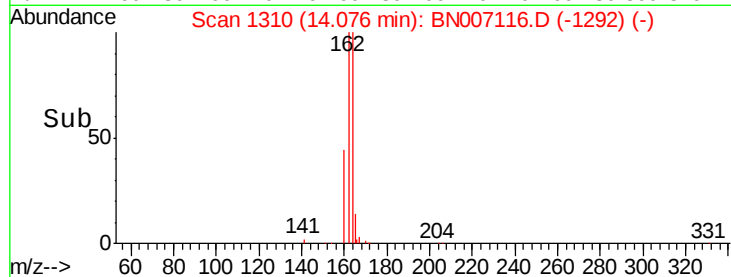
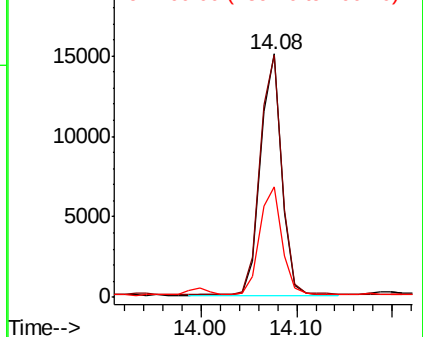


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.214 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

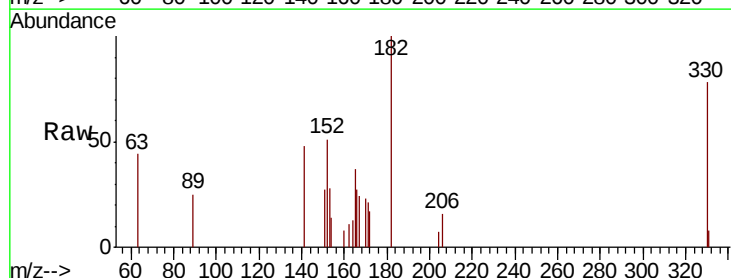
Tgt Ion:330 Resp: 2680

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 70.0 33.6 50.4#

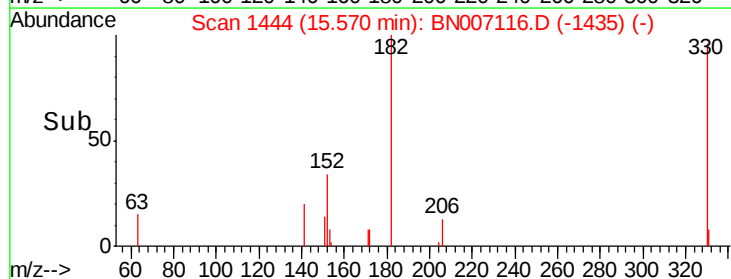
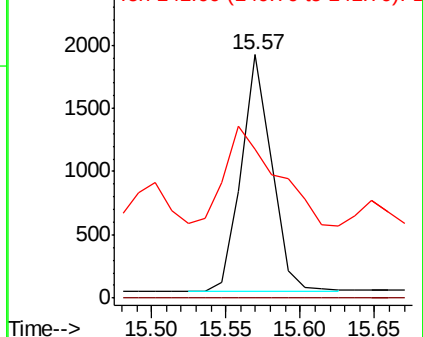


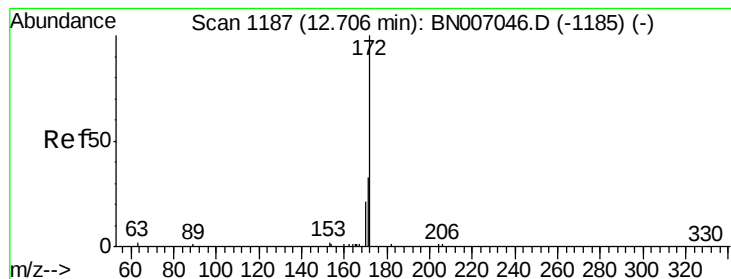
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 0.108 ng

RT: 12.71 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

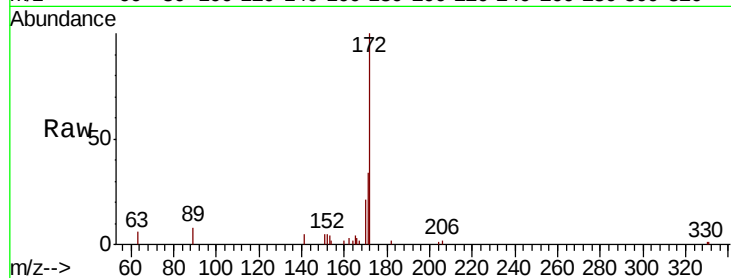
Tot Ion:172 Resp: 3632

Ion Ratio Lower Upper

172 100

171 33.6 26.3 39.5

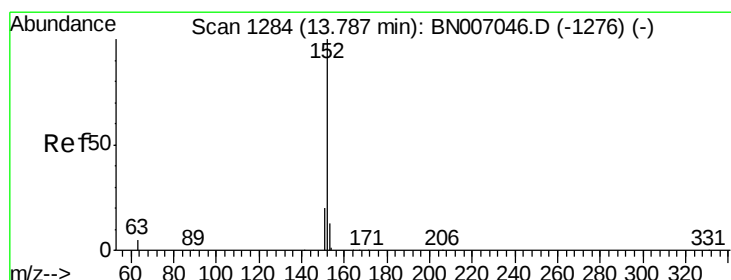
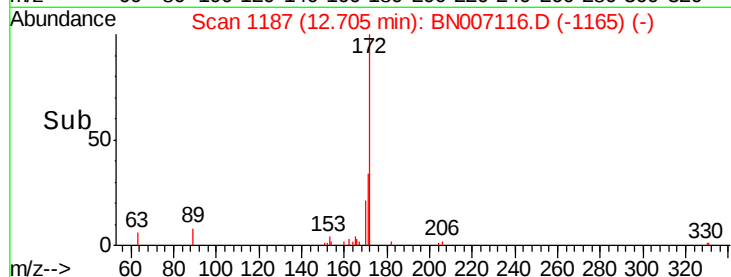
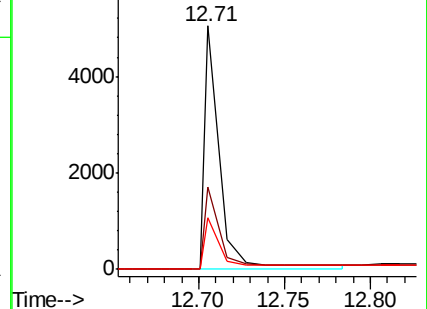
170 21.0 17.0 25.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#15

Acenaphthylene

Concen: 0.982 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

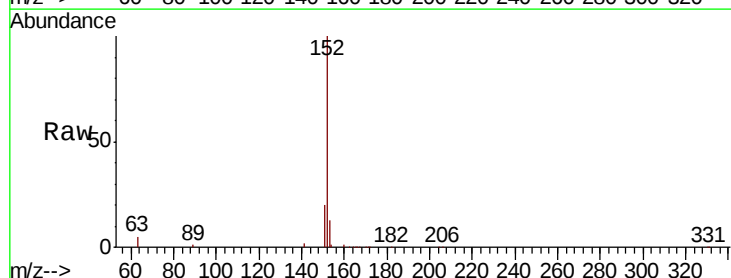
Tgt Ion:152 Resp: 119225

Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.6

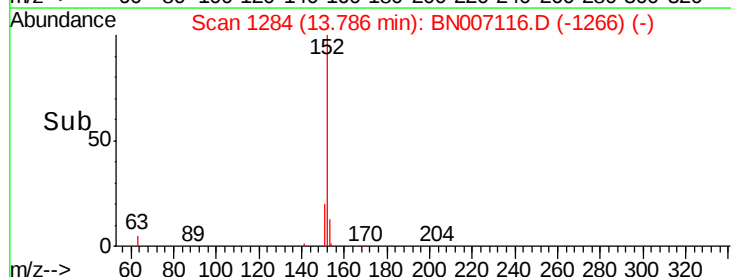
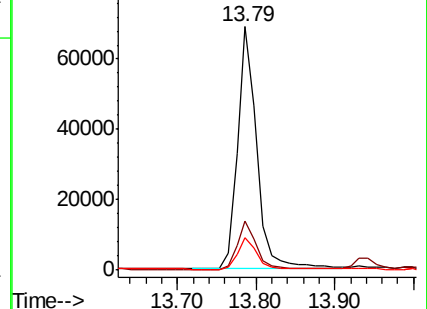
153 13.4 10.4 15.6

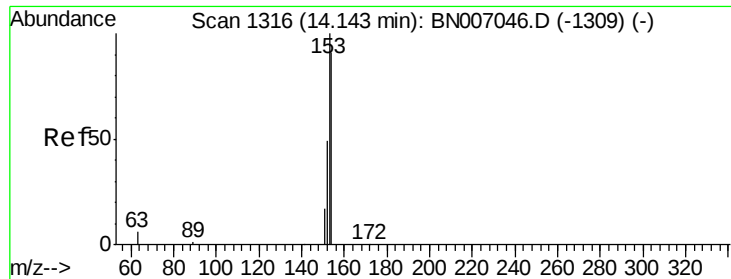


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 0.079 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

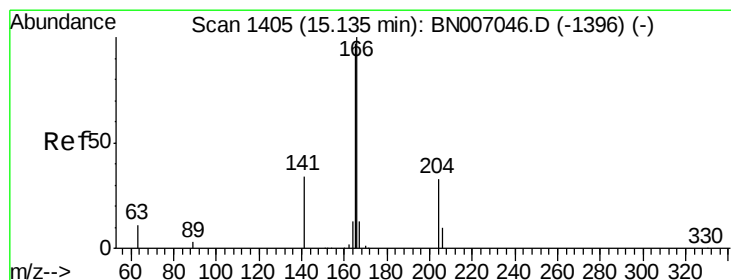
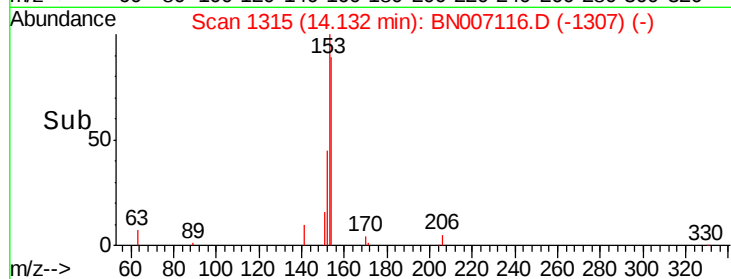
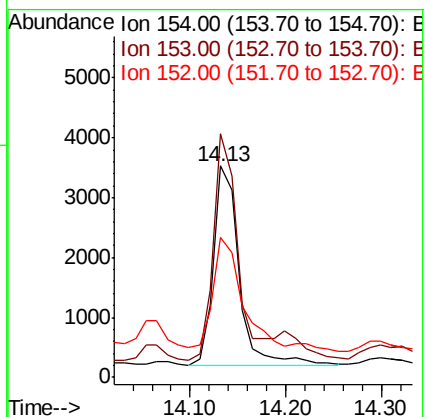
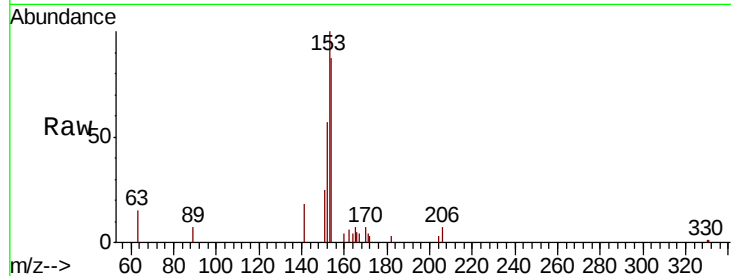
Tot Ion:154 Resp: 6180

Ion Ratio Lower Upper

154 100

153 106.5 89.5 134.3

152 59.6 44.8 67.2



#17

Fluorene

Concen: 0.154 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

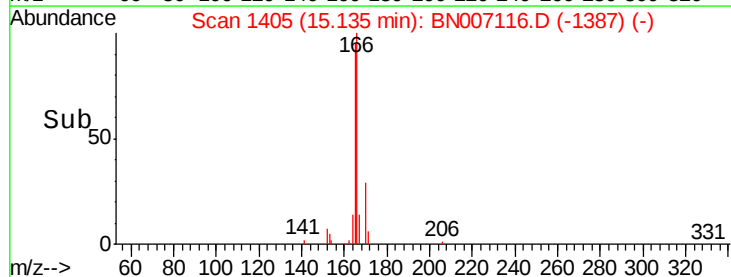
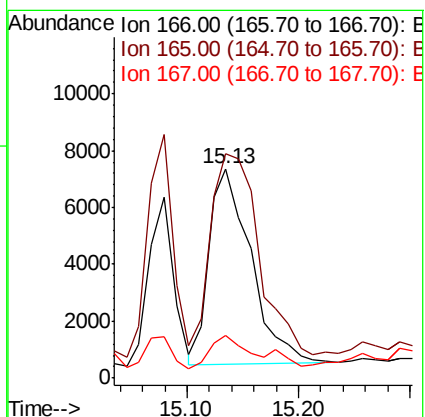
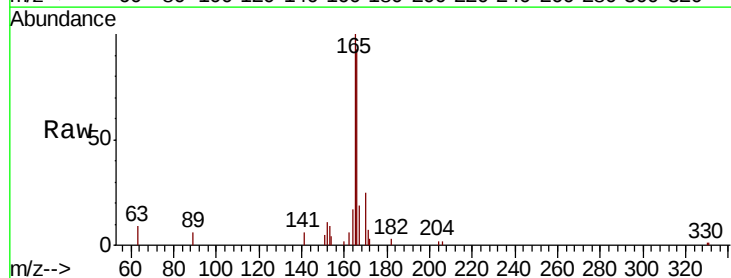
Tgt Ion:166 Resp: 17898

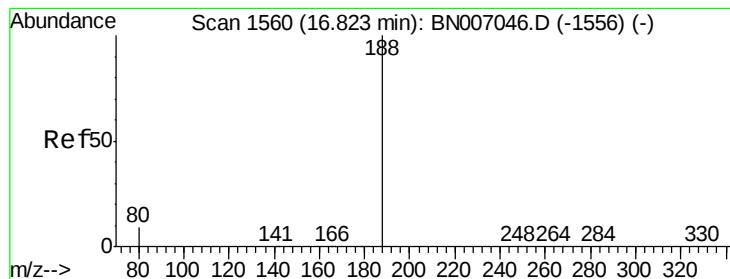
Ion Ratio Lower Upper

166 100

165 118.6 77.9 116.9#

167 19.3 10.9 16.3#





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampled :

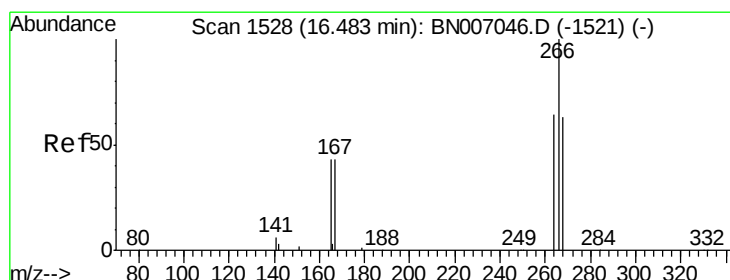
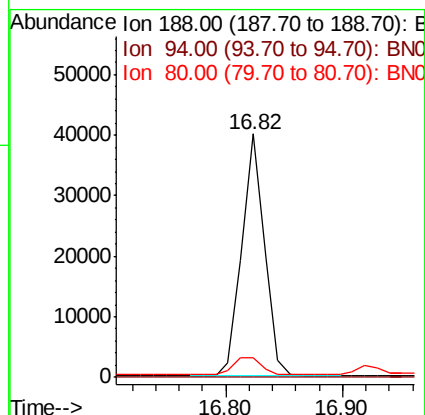
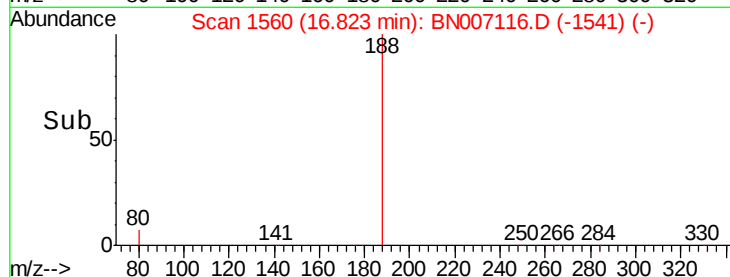
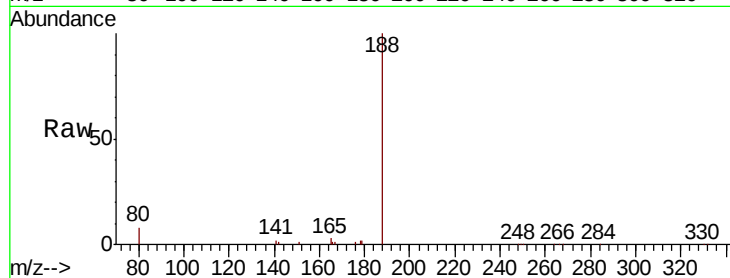
Tot Ion:188 Resp: 53452

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 7.8 11.6



#21

Pentachlorophenol

Concen: 0.028 ng

RT: 16.48 min Scan# 1528

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

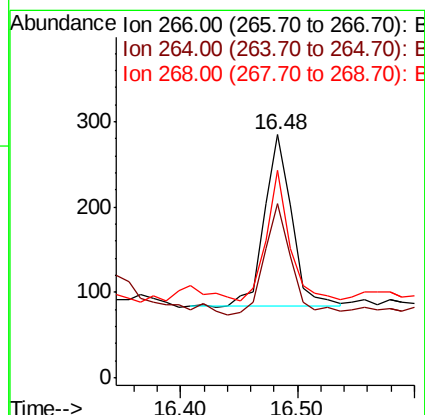
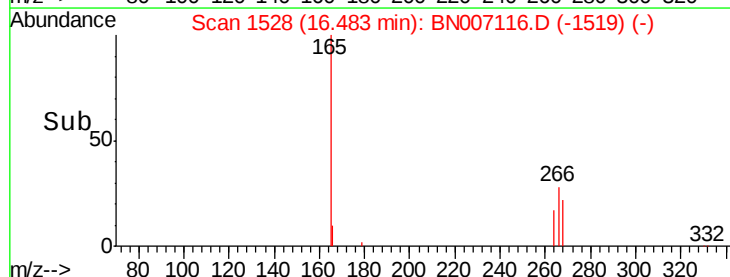
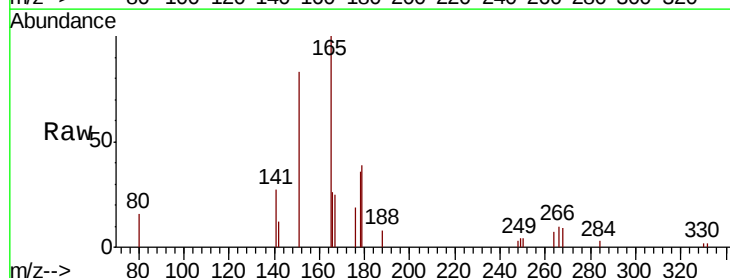
Tgt Ion:266 Resp: 326

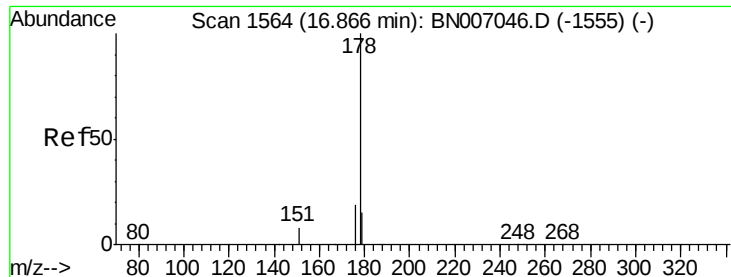
Ion Ratio Lower Upper

266 100

264 71.6 52.3 78.5

268 85.3 51.5 77.3#





#22

Phenanthrene

Concen: 1.988 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

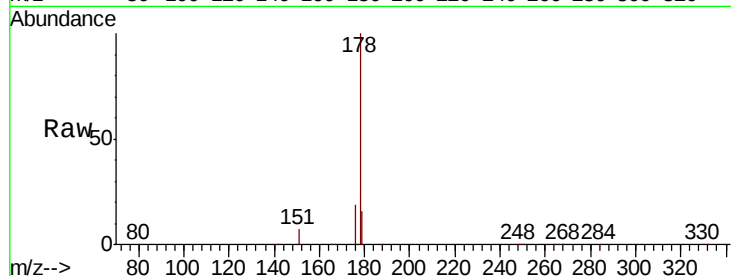
Tot Ion:178 Resp: 318527

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

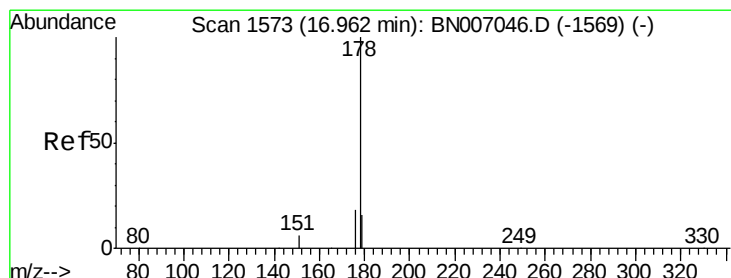
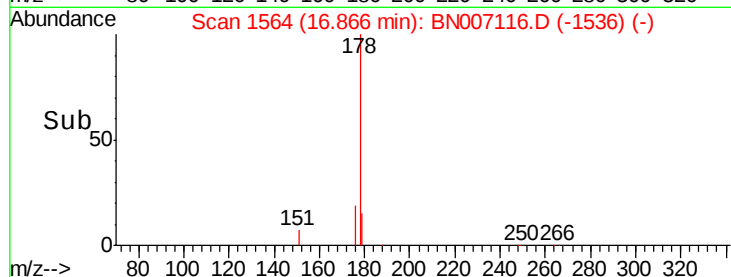
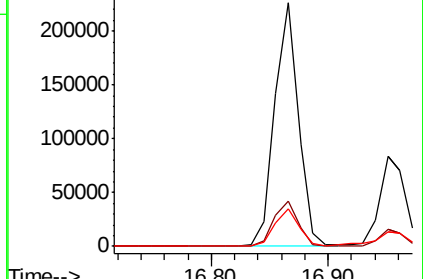
179 15.6 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.858 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

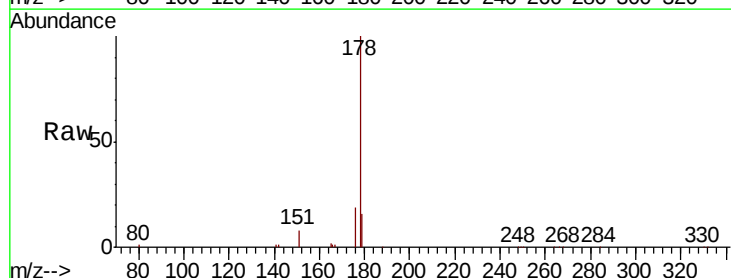
Tgt Ion:178 Resp: 125559

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

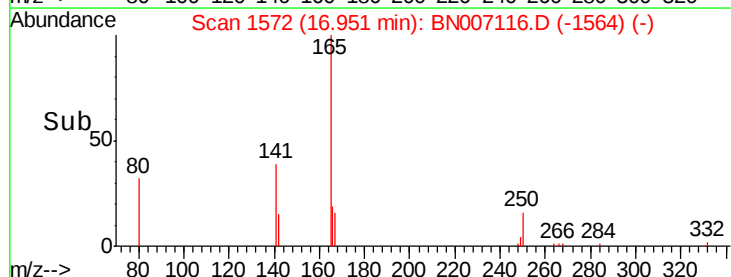
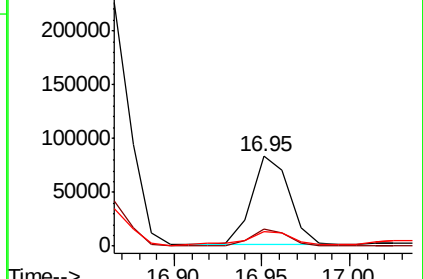
179 18.3 12.5 18.7

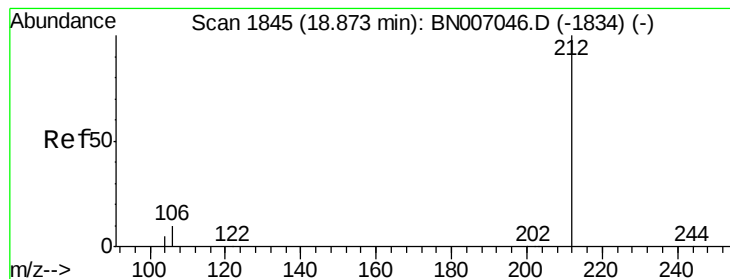


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.207 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

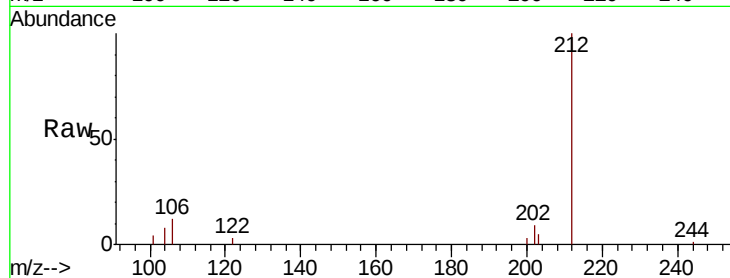
Tot Ion:212 Resp: 39194

Ion Ratio Lower Upper

212 100

106 10.8 8.2 12.2

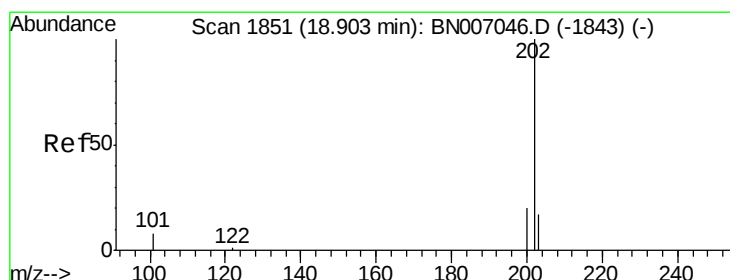
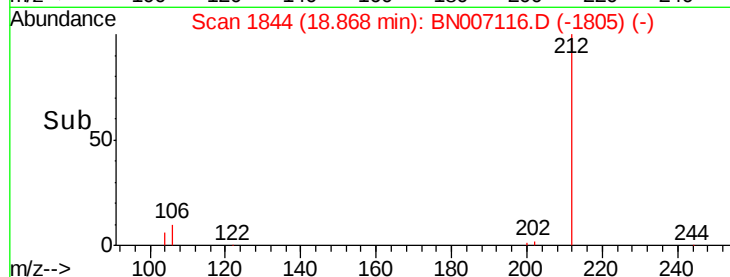
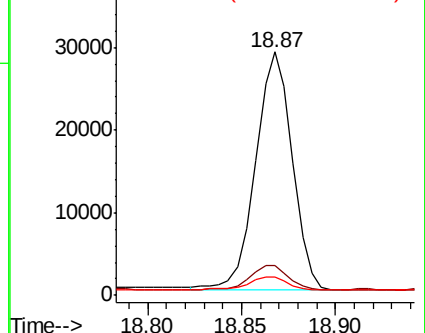
104 6.7 4.5 6.7



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#25

Fluoranthene

Concen: 3.985 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

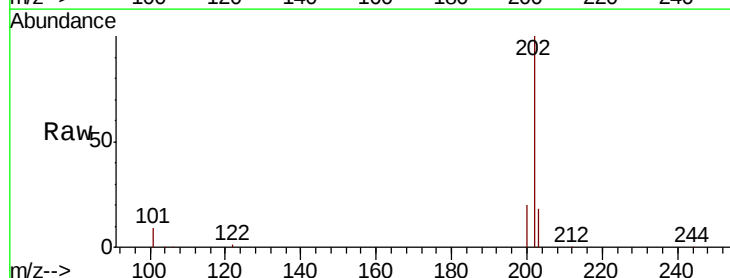
Tgt Ion:202 Resp: 816655

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

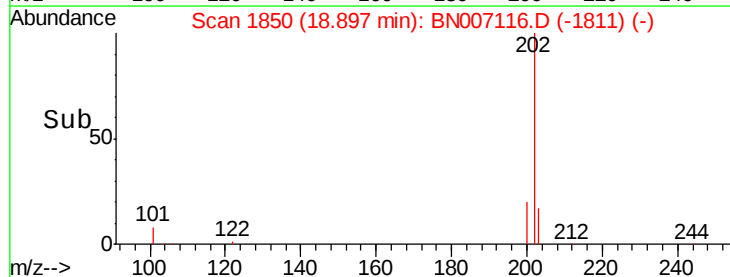
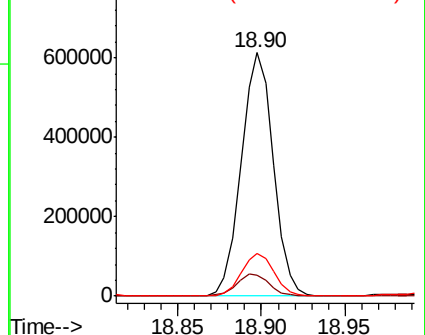
203 17.6 13.8 20.8

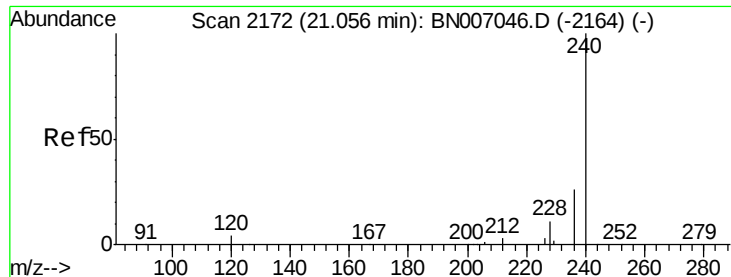


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

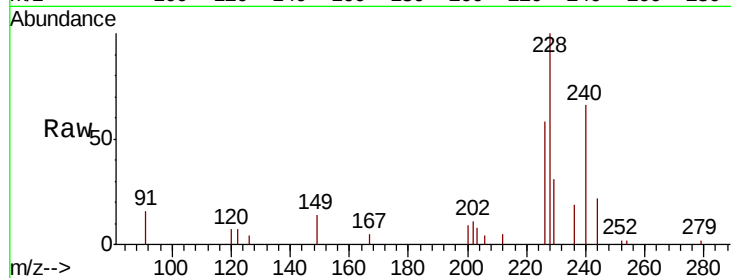
Tot Ion:240 Resp: 51773

Ion Ratio Lower Upper

240 100

120 10.3 4.0 6.0#

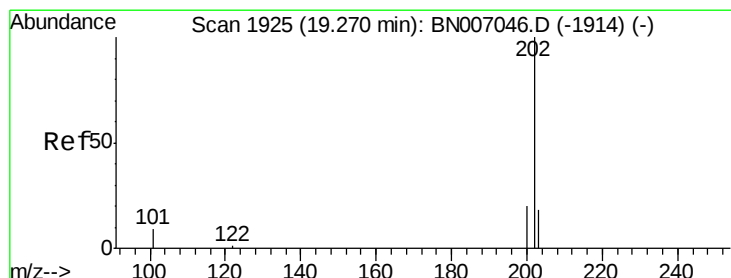
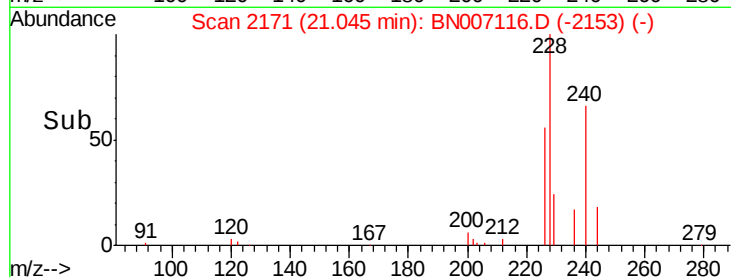
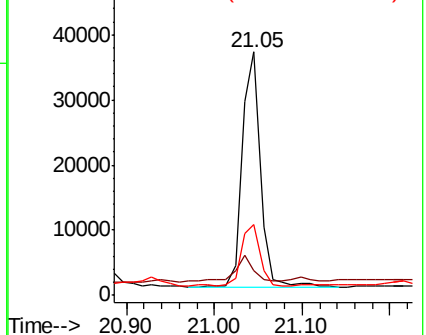
236 29.3 21.3 31.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#27

Pyrene

Concen: 4.287 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

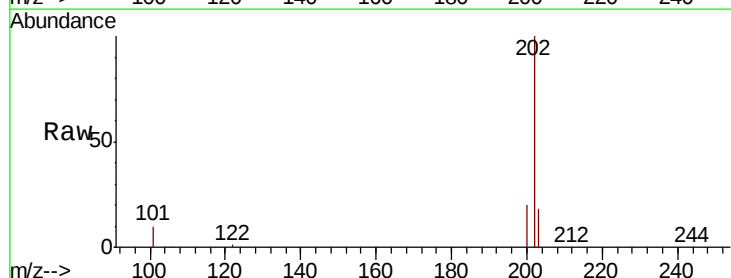
Tgt Ion:202 Resp: 778338

Ion Ratio Lower Upper

202 100

200 21.1 16.6 24.8

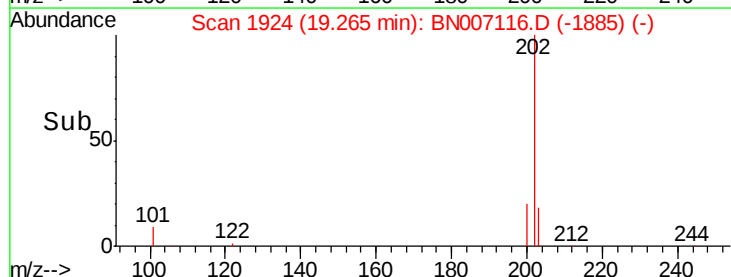
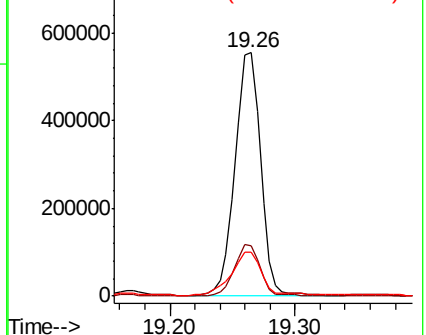
203 21.4 14.0 21.0#

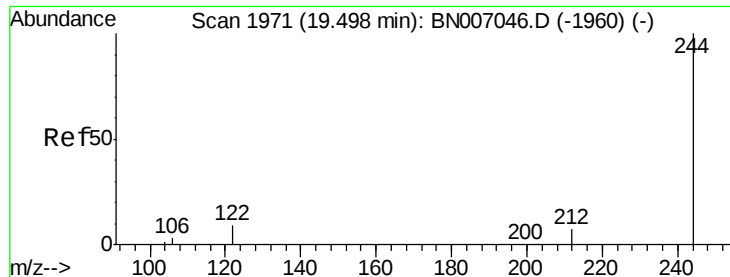


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.217 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

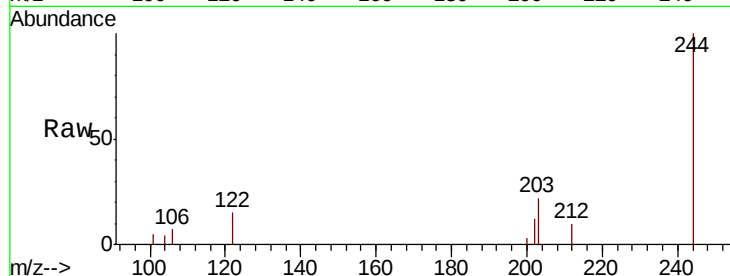
Tot Ion:244 Resp: 30599

Ion Ratio Lower Upper

244 100

212 10.3 6.2 9.2#

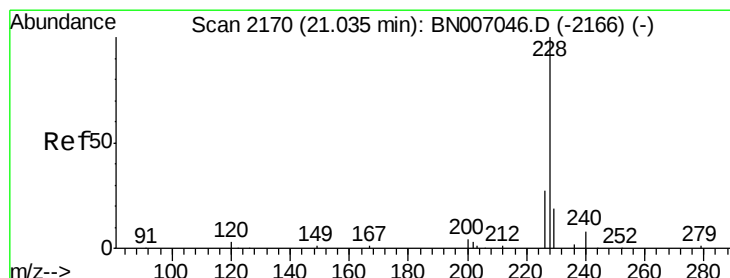
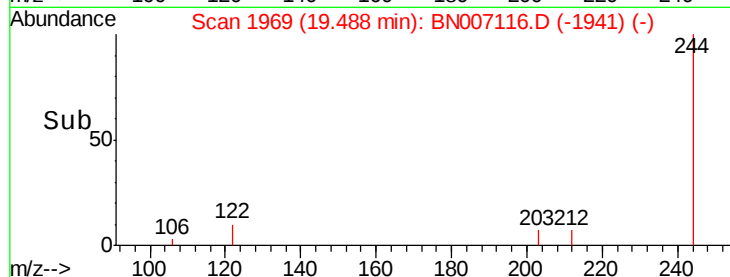
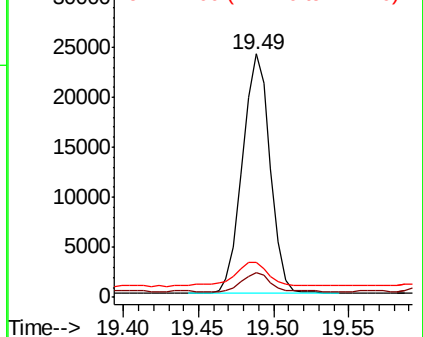
122 14.6 7.4 11.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#29

Benzo(a)anthracene

Concen: 2.738 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

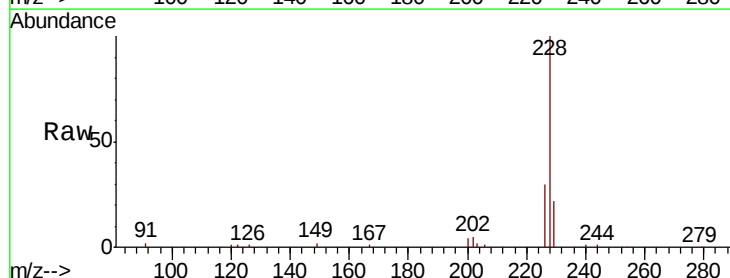
Tgt Ion:228 Resp: 518347

Ion Ratio Lower Upper

228 100

226 30.3 21.8 32.6

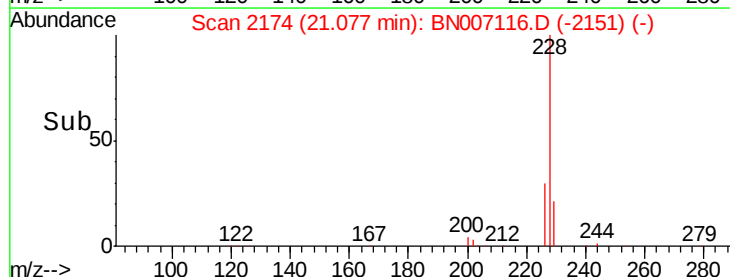
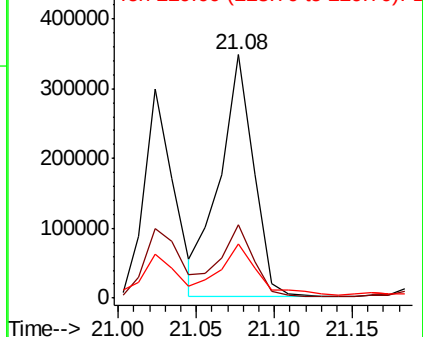
229 22.3 15.6 23.4

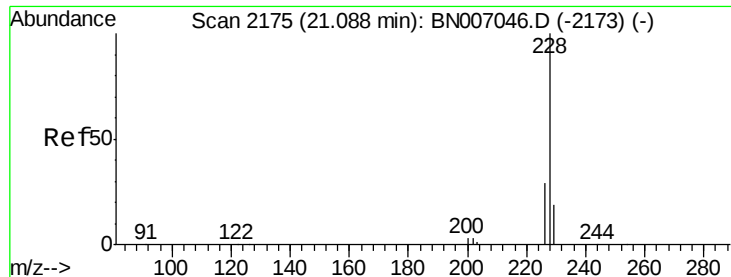


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 2.818 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

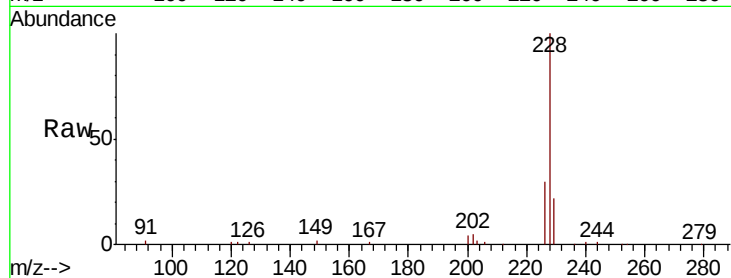
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 518347

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.6
229	22.3	15.7	23.5

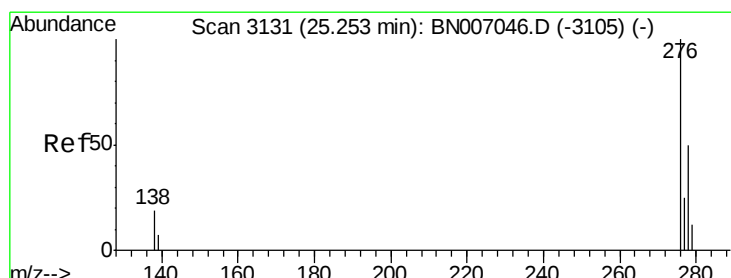
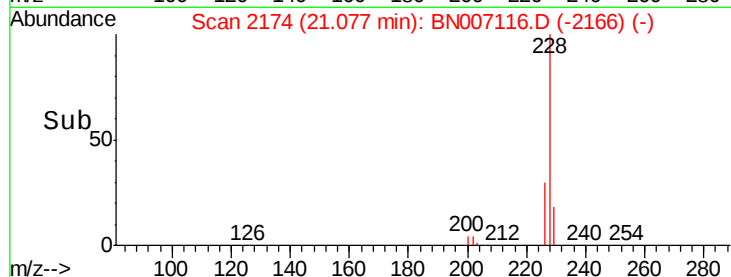
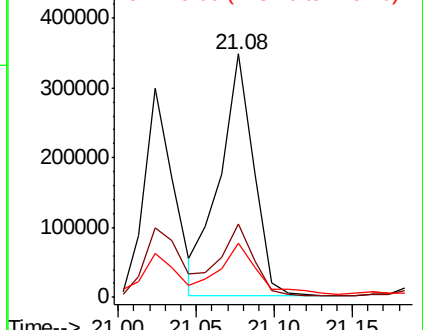


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 1.871 ng

RT: 25.24 min Scan# 3126

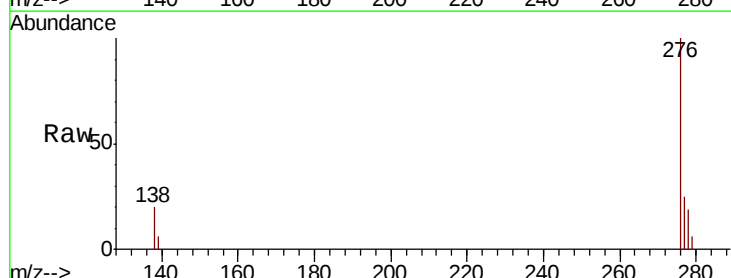
Delta R.T. -0.02 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:276 Resp: 379316

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.0	24.0
277	24.6	19.9	29.9

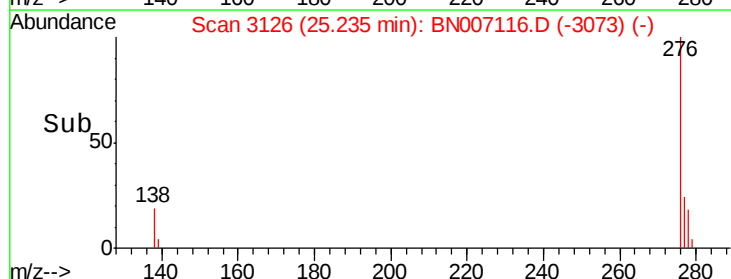
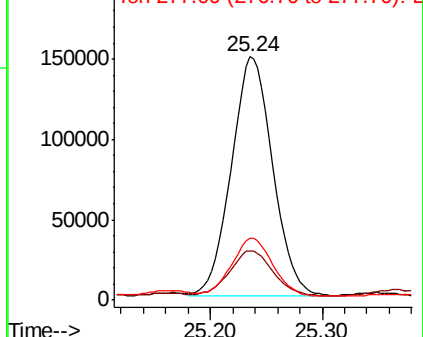


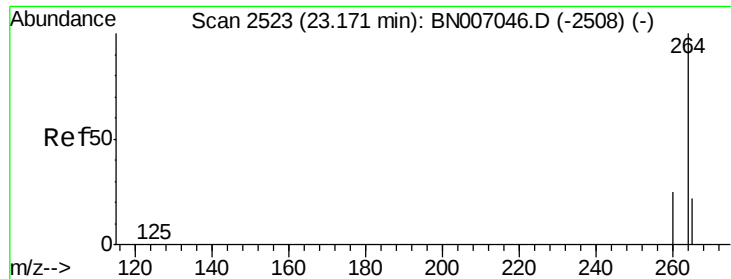
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

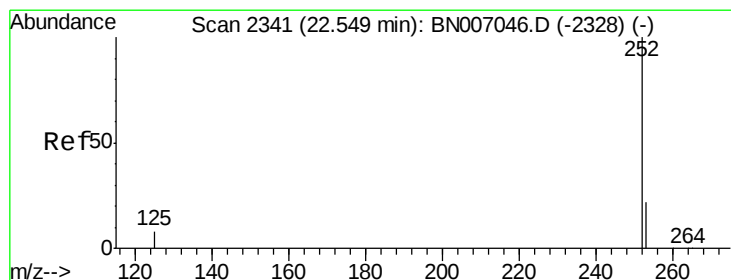
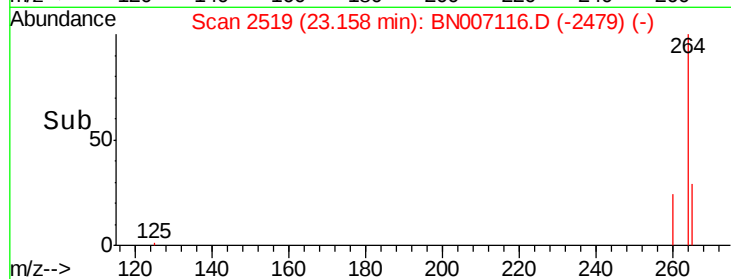
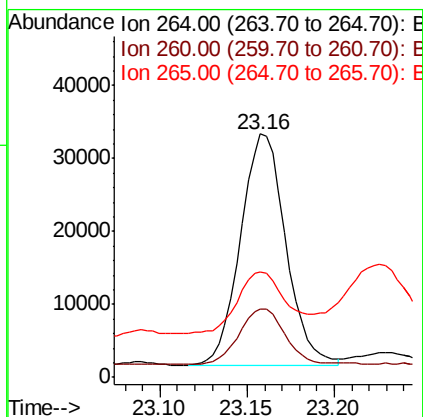
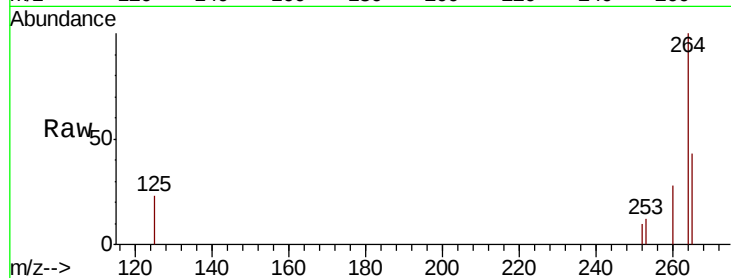




#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

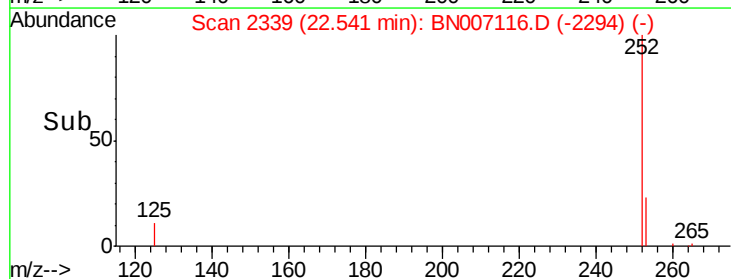
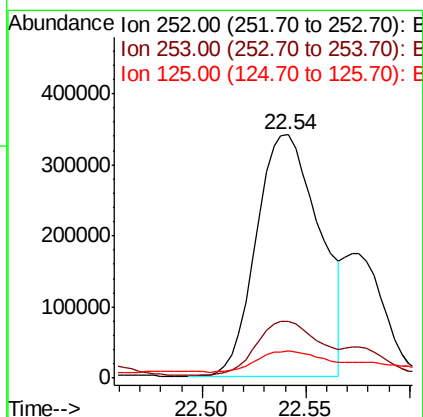
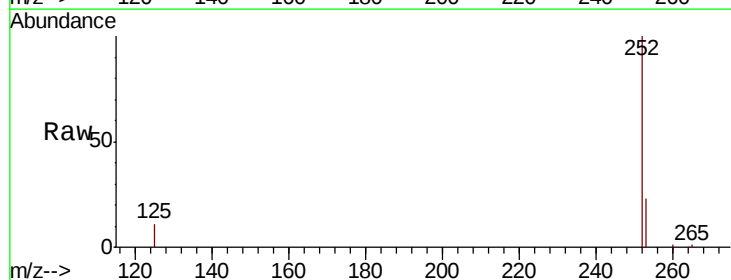
Instrument :
BNA_N
ClientSampleId :

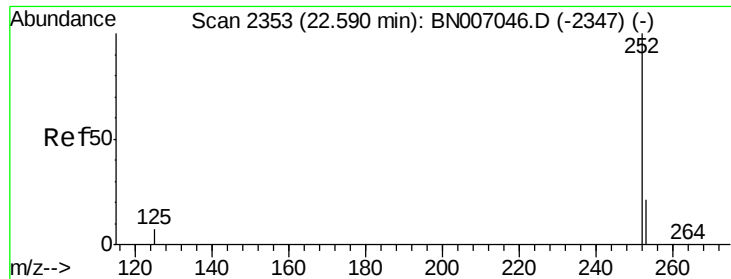
Tot Ion:264 Resp: 57635
Ion Ratio Lower Upper
264 100
260 28.3 19.8 29.8
265 43.3 26.2 39.4#



#33
Benzo(b)fluoranthene
Concen: 3.637 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion:252 Resp: 718775
Ion Ratio Lower Upper
252 100
253 23.2 18.2 27.2
125 11.1 7.4 11.0#

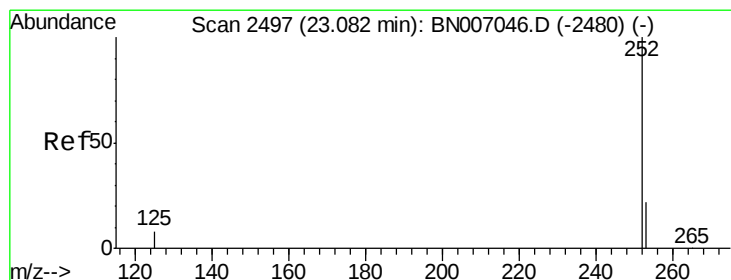
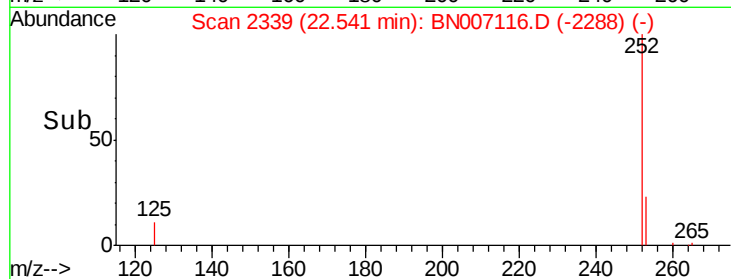
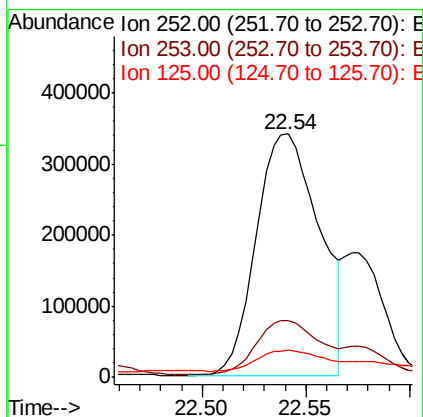
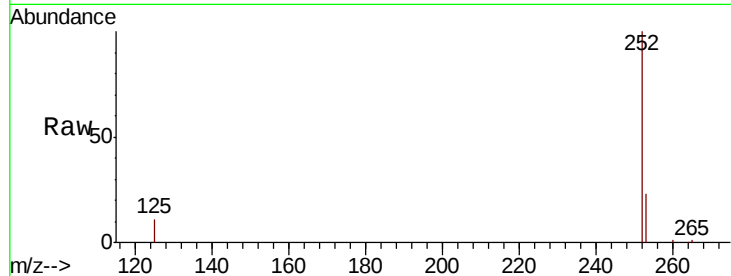




#34
Benzo(k)fluoranthene
Concen: 3.683 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.05 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

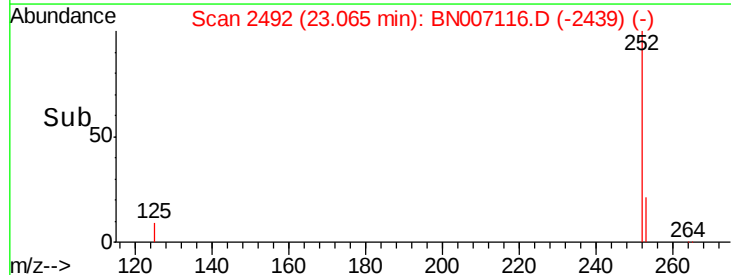
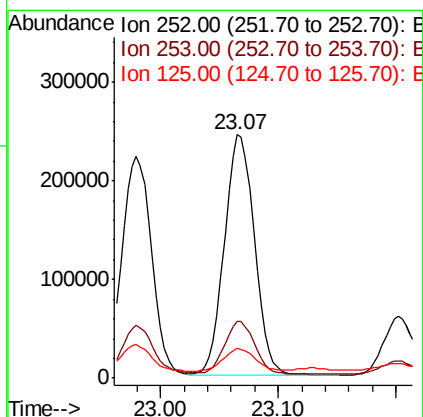
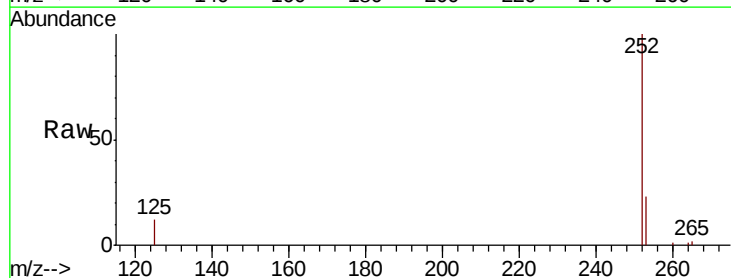
Instrument :
BNA_N
ClientSampleId :

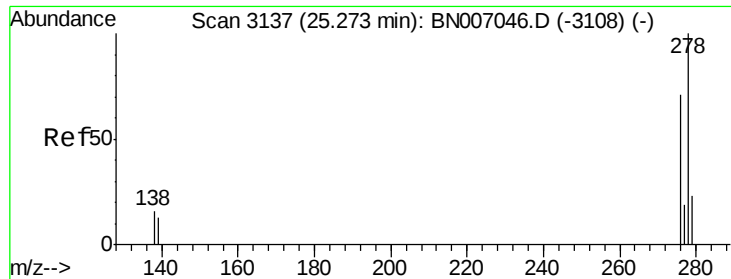
Tot Ion:252 Resp: 718775
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 11.1 7.4 11.0#



#35
Benzo(a)pyrene
Concen: 2.403 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion:252 Resp: 430614
Ion Ratio Lower Upper
252 100
253 23.4 18.5 27.7
125 12.1 8.2 12.4





#36

Dibenzo(a,h)anthracene

Concen: 0.515 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

ClientSampleId :

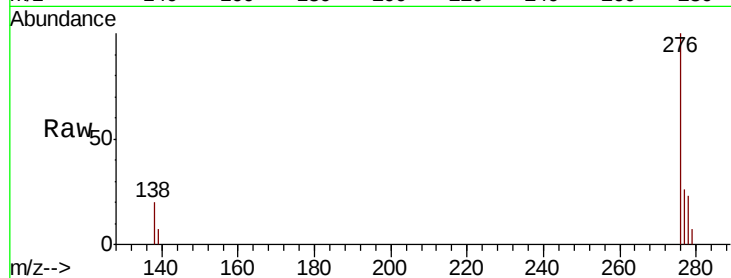
Tot Ion:278 Resp: 92115

Ion Ratio Lower Upper

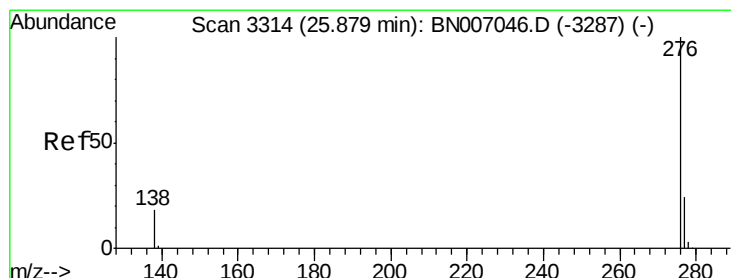
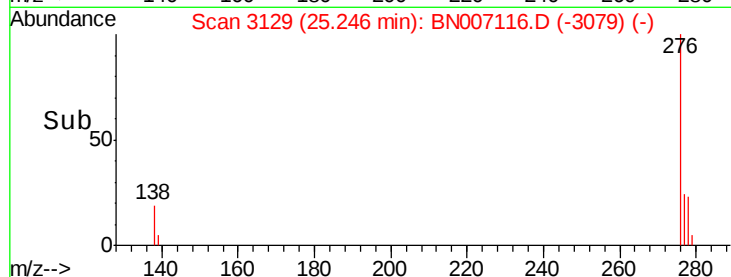
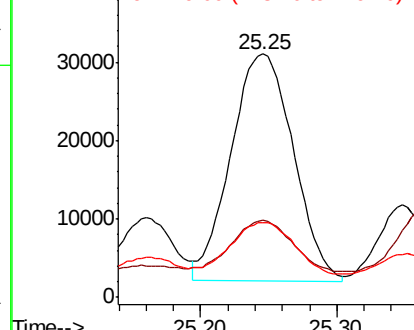
278 100

139 31.6 11.3 16.9#

279 30.6 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#37

Benzo(g,h,i)perylene

Concen: 2.279 ng

RT: 25.87 min Scan# 3311

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

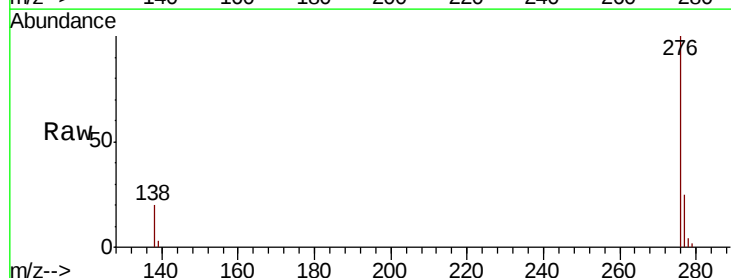
Tgt Ion:276 Resp: 419028

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.8

138 19.9 14.6 22.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

