

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081319\
 Data File : BN007135.D
 Acq On : 13 Aug 2019 17:07
 Operator : HP/JU
 Sample : K4173-08
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 14 03:12:50 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9587	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37537	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22039	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47958	0.40	ng	0.00
26) Chrysene-d12	21.05	240	47101	0.40	ng	-0.01
32) Perylene-d12	23.16	264	58544	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5438	0.24	ng	0.00
4) Phenol-d6	6.62	99	7392	0.26	ng	0.00
7) Nitrobenzene-d5	8.56	82	5982	0.20	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	11274	0.16	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2056	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	2751	0.09	ng	0.00
24) Fluoranthene-d10	18.87	212	27591	0.16	ng	0.00
28) Terphenyl-d14	19.49	244	17772	0.14	ng	-0.01

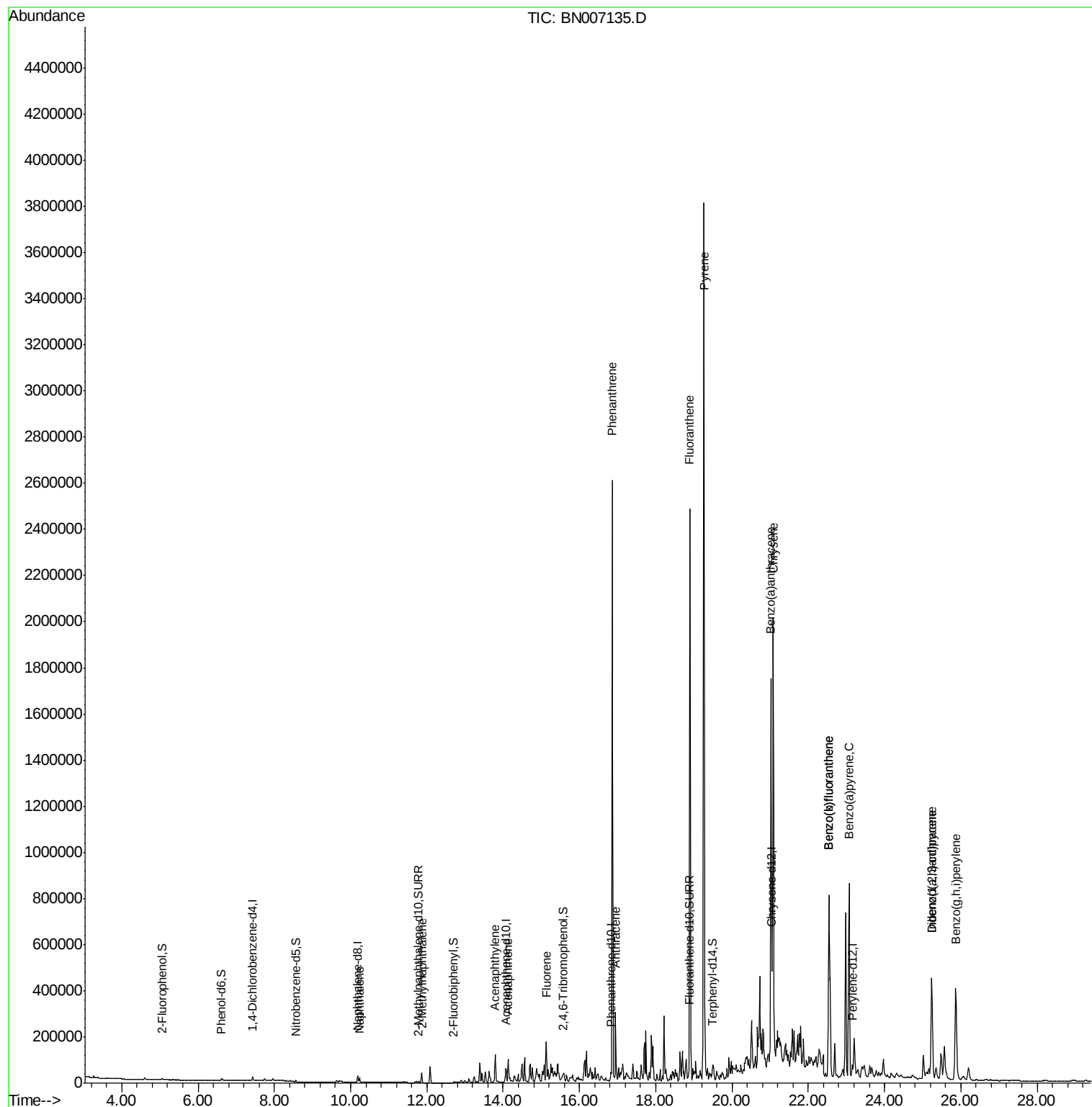
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	23260	0.221	ng	99
11) 2-Methylnaphthalene	11.87	142	32216	0.432	ng	99
15) Acenaphthylene	13.79	152	144253	1.252	ng	97
16) Acenaphthene	14.13	154	51398	0.697	ng	93
17) Fluorene	15.13	166	110549	1.001	ng	# 93
22) Phenanthrene	16.87	178	2615962	18.201	ng	100
23) Anthracene	16.95	178	328192	2.499	ng	98
25) Fluoranthene	18.90	202	2359584	12.834	ng	98
27) Pyrene	19.26	202	3698806	22.393	ng	# 96
29) Benzo(a)anthracene	21.02	228	1431486	8.310	ng	95
30) Chrysene	21.08	228	1744165	10.422	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	659044	3.573	ng	99
33) Benzo(b)fluoranthene	22.54	252	1378803	6.868	ng	100
34) Benzo(k)fluoranthene	22.54	252	1378803	6.954	ng	100
35) Benzo(a)pyrene	23.07	252	1153456	6.338	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	207857	1.145	ng	# 91
37) Benzo(a,h,i)perylene	25.87	276	785810	4.207	ng	99

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

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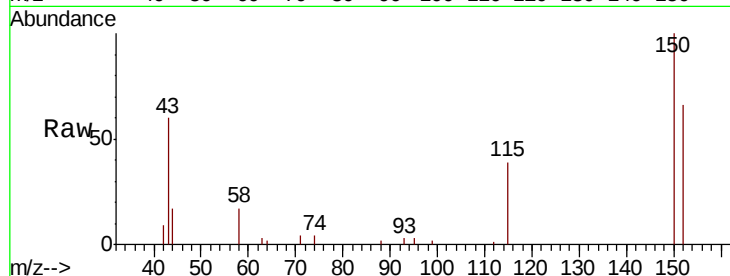


#1

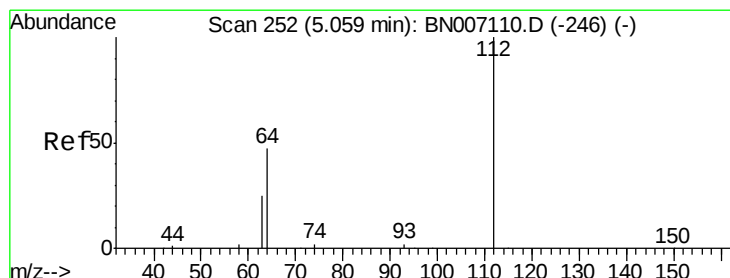
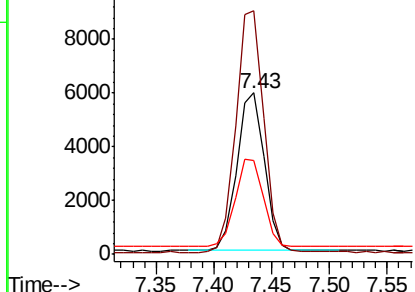
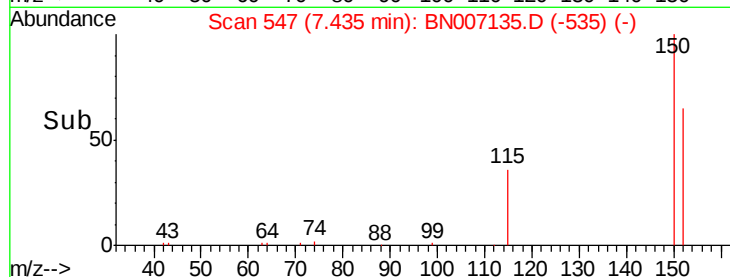
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9587
Ion Ratio Lower Upper
152 100
150 151.1 121.7 182.5
115 58.3 46.2 69.4



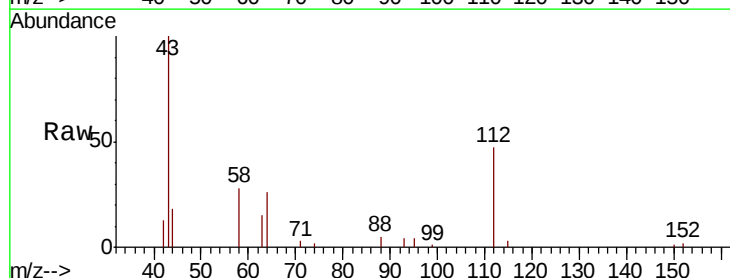
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



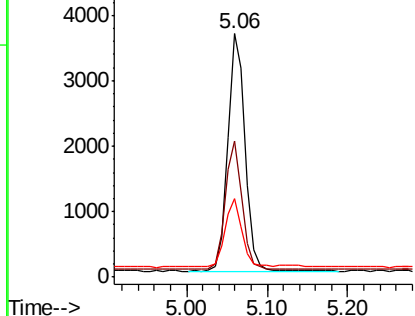
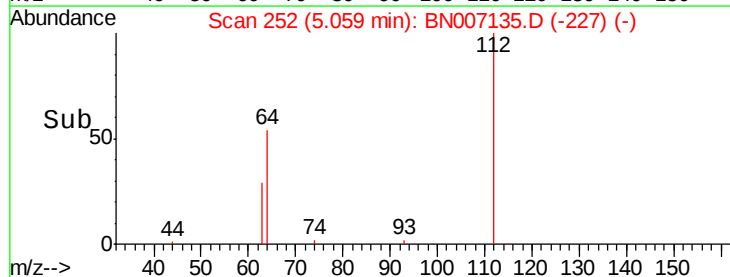
#3

2-Fluorophenol
Concen: 0.236 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

Tgt Ion:112 Resp: 5438
Ion Ratio Lower Upper
112 100
64 53.2 42.6 63.8
63 28.1 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: 0.259 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

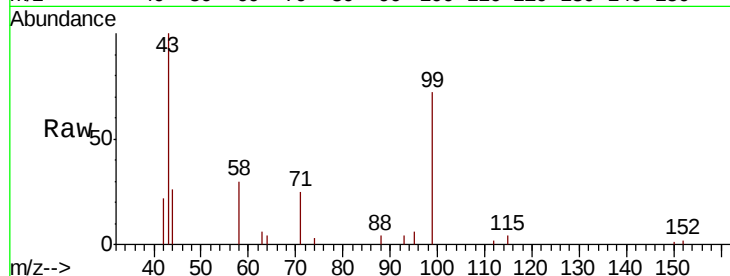
Tot Ion: 99 Resp: 7392

Ion Ratio Lower Upper

99 100

42 20.4 15.8 23.6

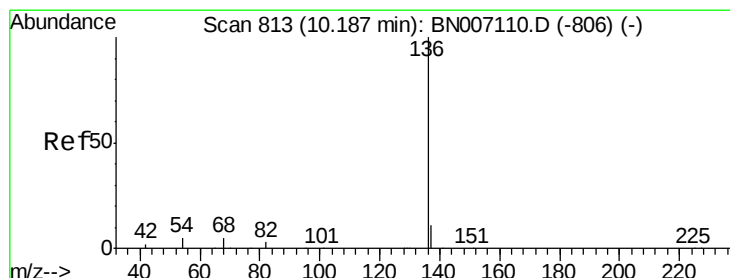
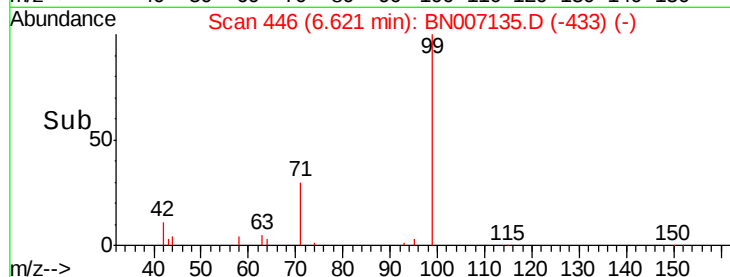
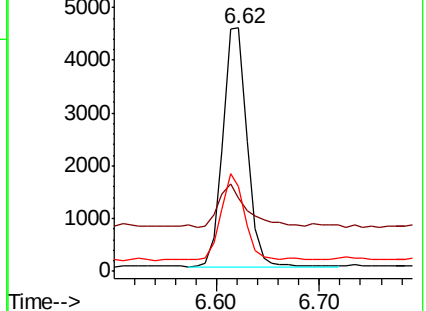
71 34.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Tgt Ion: 136 Resp: 37537

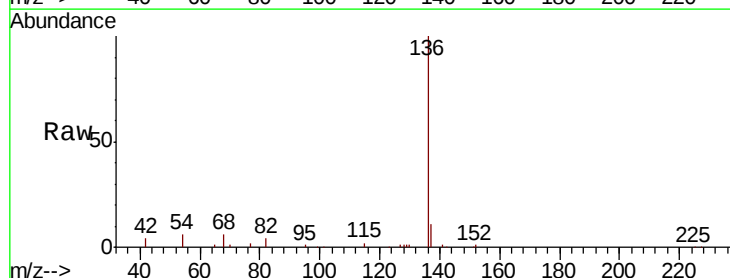
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.1 6.6 9.8#

68 5.7 6.0 9.0#

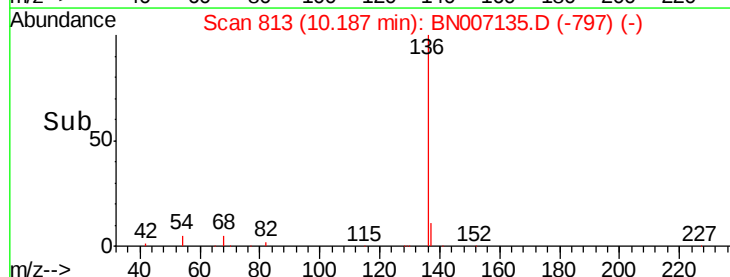
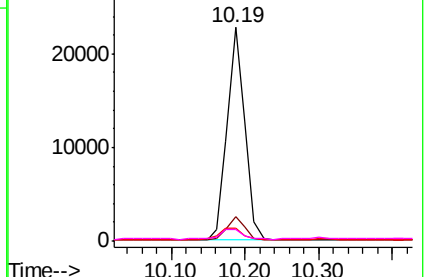


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.198 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampled :

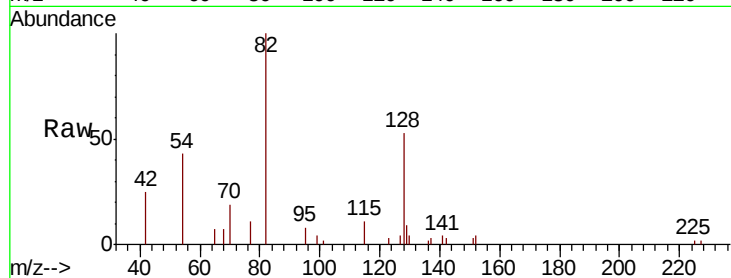
Tot Ion: 82 Resp: 5982

Ion Ratio Lower Upper

82 100

128 53.3 34.6 51.8#

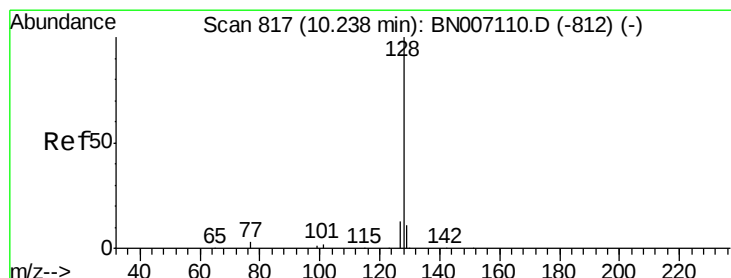
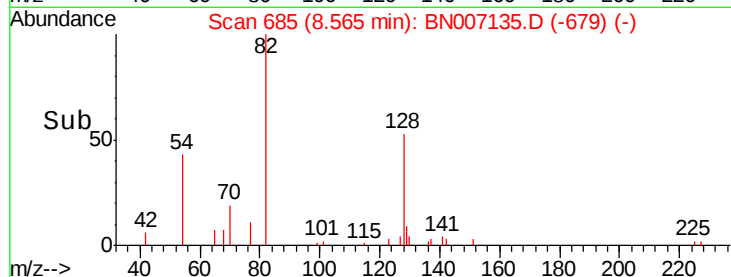
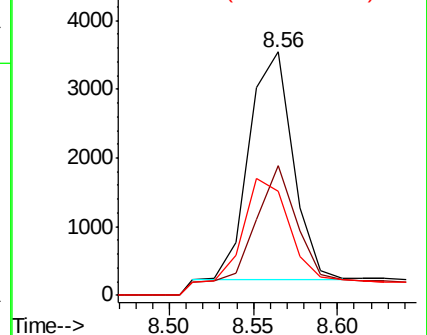
54 42.9 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)



#8

Naphthalene

Concen: 0.221 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

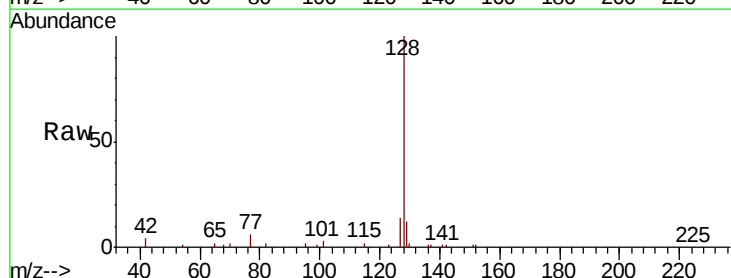
Tgt Ion: 128 Resp: 23260

Ion Ratio Lower Upper

128 100

129 12.1 9.4 14.2

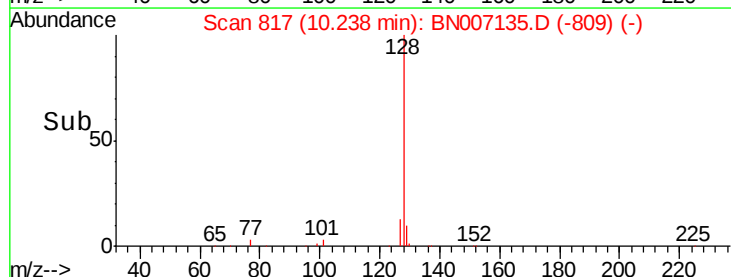
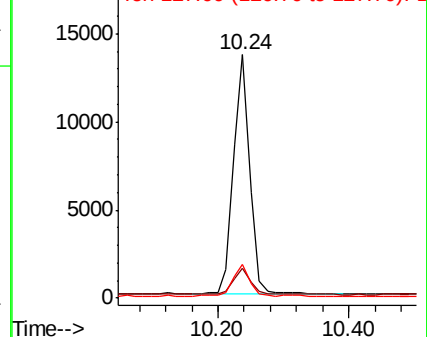
127 13.6 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.161 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

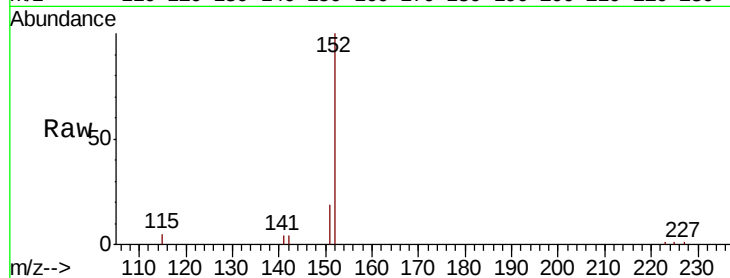
ClientSampleId :

Tot Ion:152 Resp: 11274

Ion Ratio Lower Upper

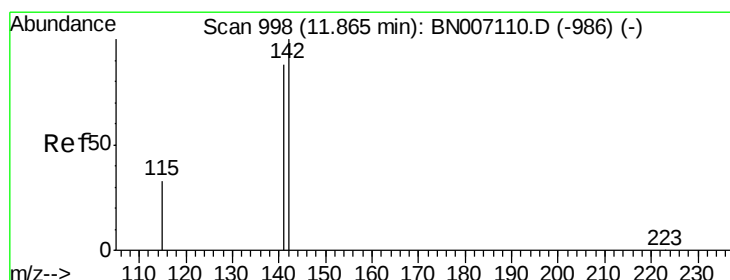
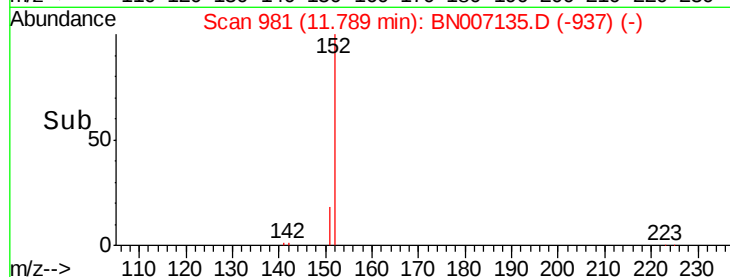
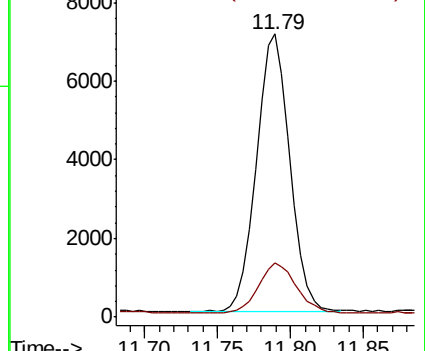
152 100

151 20.1 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.432 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

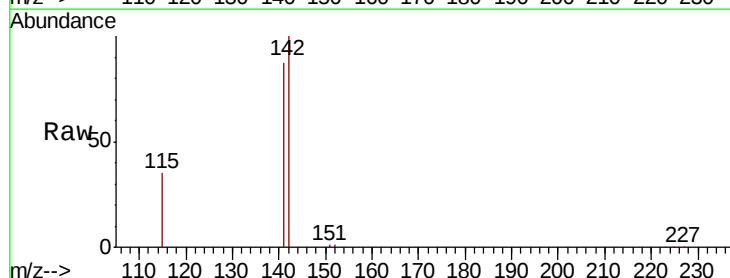
Tgt Ion:142 Resp: 32216

Ion Ratio Lower Upper

142 100

141 86.9 69.0 103.6

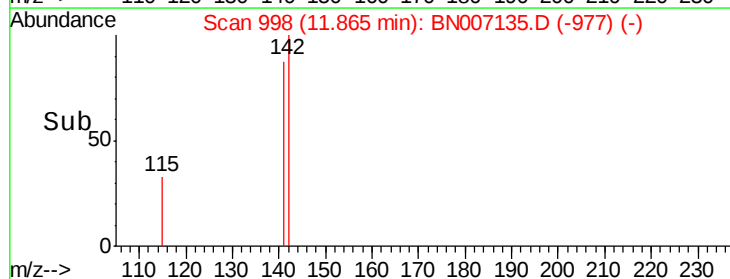
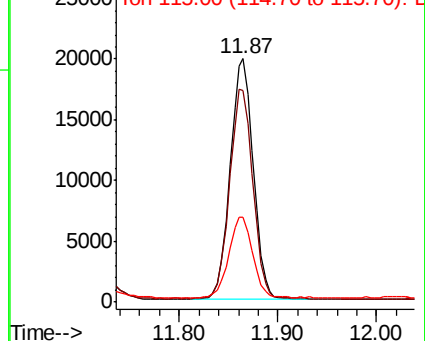
115 34.8 27.1 40.7

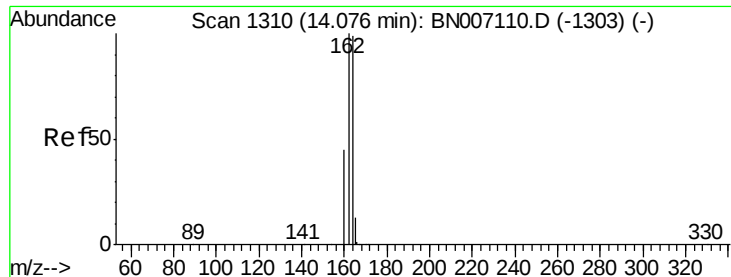


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

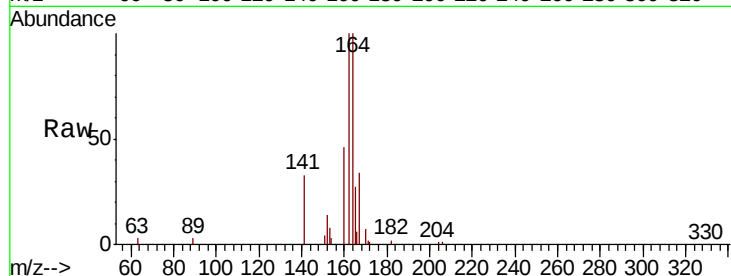
Tot Ion:164 Resp: 22039

Ion Ratio Lower Upper

164 100

162 100.0 82.2 123.4

160 45.6 38.3 57.5

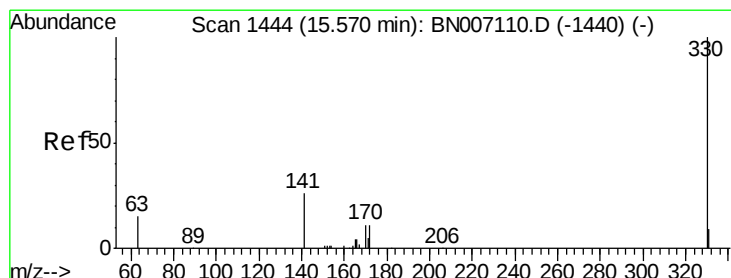
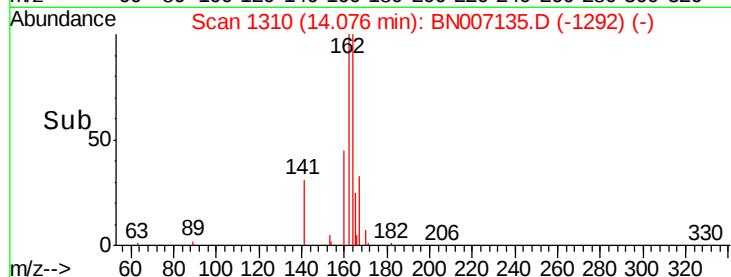
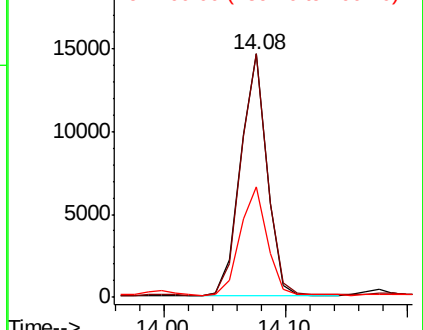


Abundance

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: 0.173 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

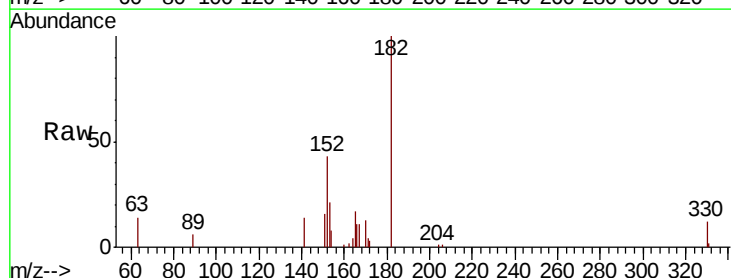
Tgt Ion:330 Resp: 2056

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

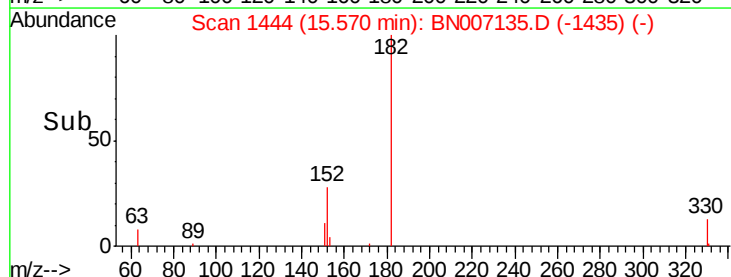
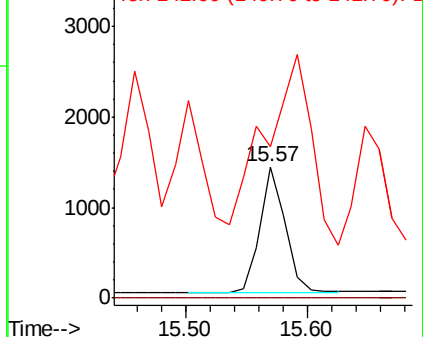


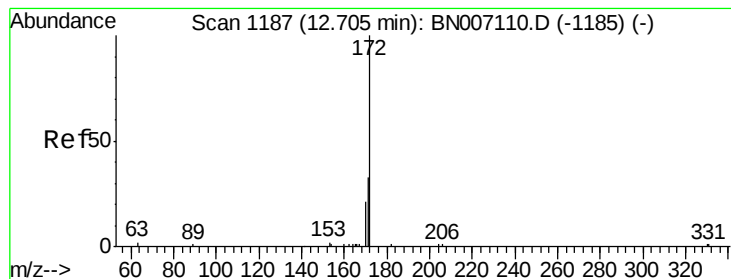
Abundance

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

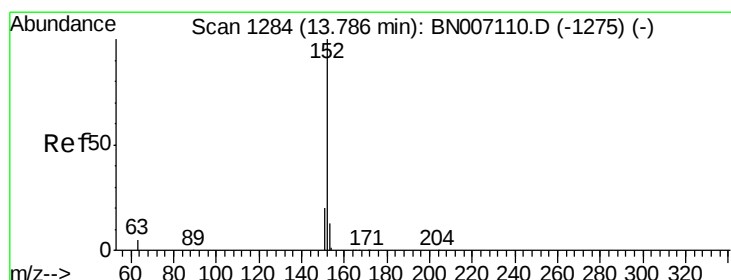
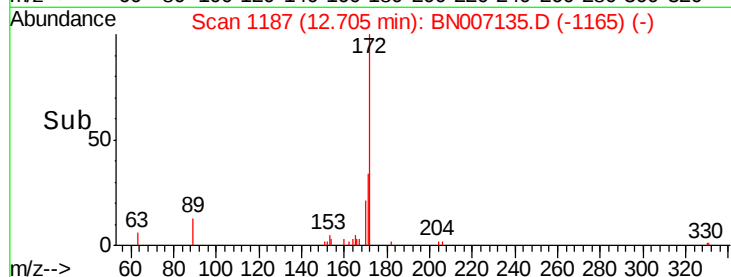
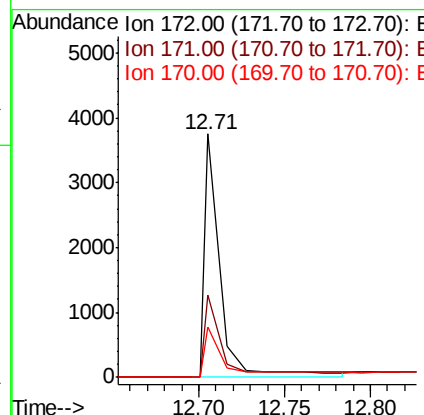
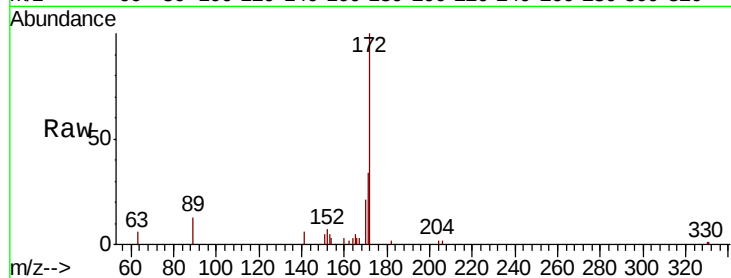




#14
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

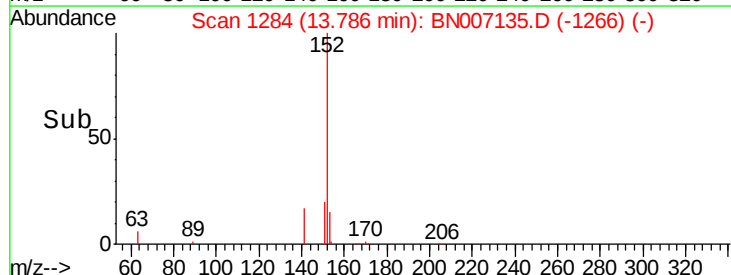
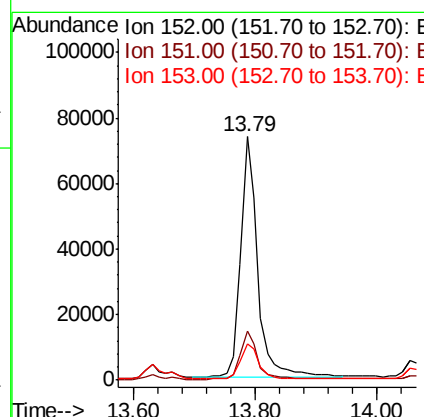
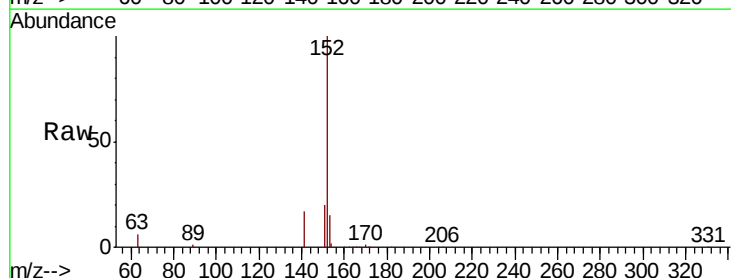
Instrument :
BNA_N
ClientSampled :

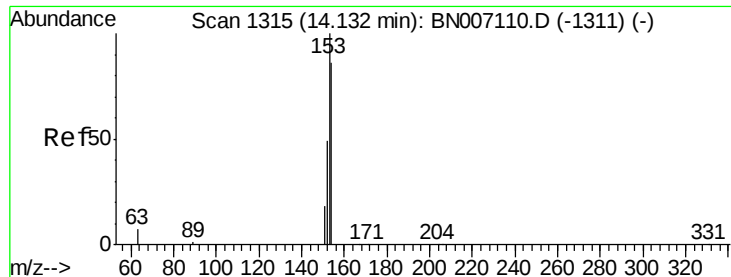
Tot Ion:172 Resp: 2751
Ion Ratio Lower Upper
172 100
171 33.9 26.3 39.5
170 20.9 17.0 25.4



#15
Acenaphthylene
Concen: 1.252 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

Tgt Ion:152 Resp: 144253
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 15.5 10.4 15.6





#16

Acenaphthene

Concen: 0.697 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

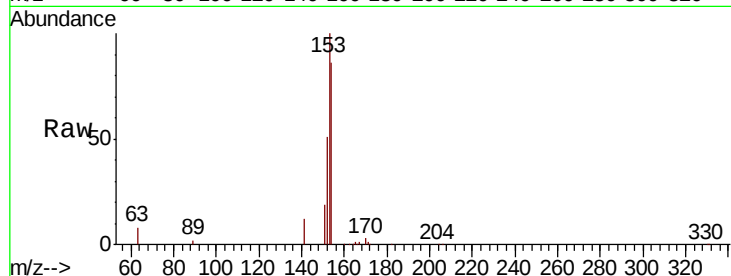
Tot Ion:154 Resp: 51398

Ion Ratio Lower Upper

154 100

153 122.2 89.5 134.3

152 58.3 44.8 67.2

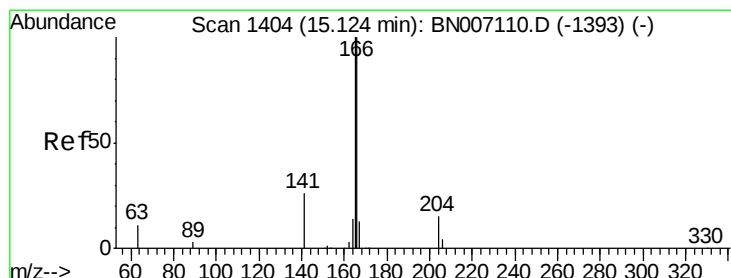
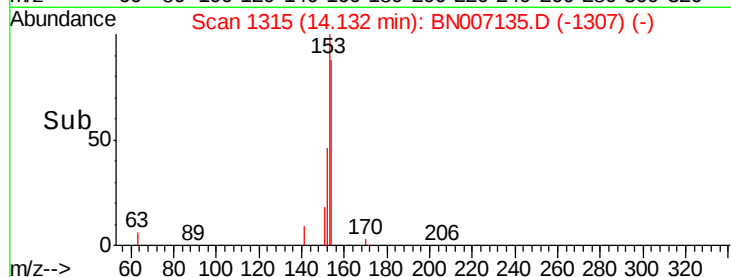
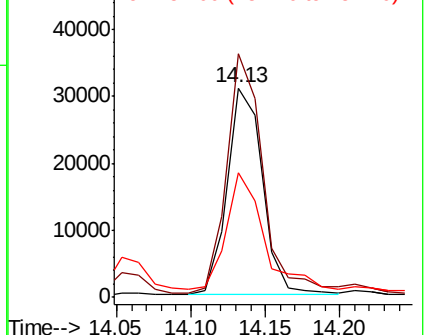


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 1.001 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

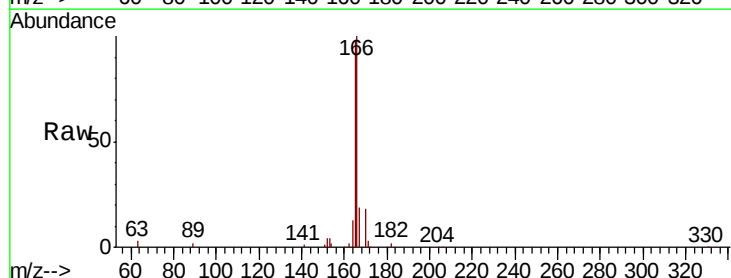
Tgt Ion:166 Resp: 110549

Ion Ratio Lower Upper

166 100

165 104.5 77.9 116.9

167 17.2 10.9 16.3#

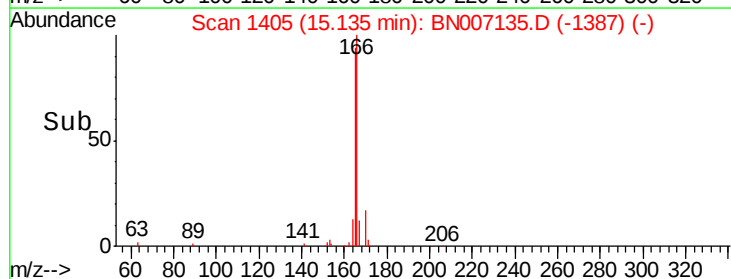
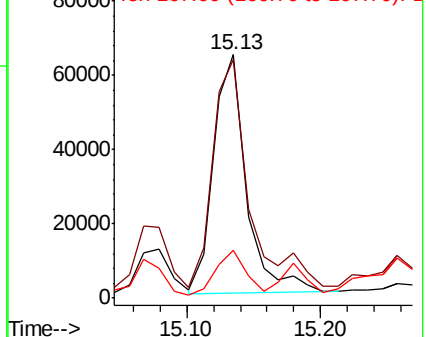


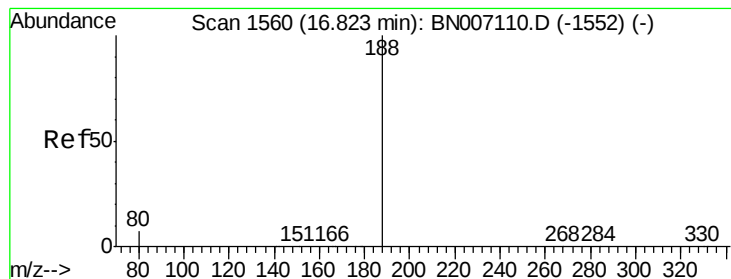
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

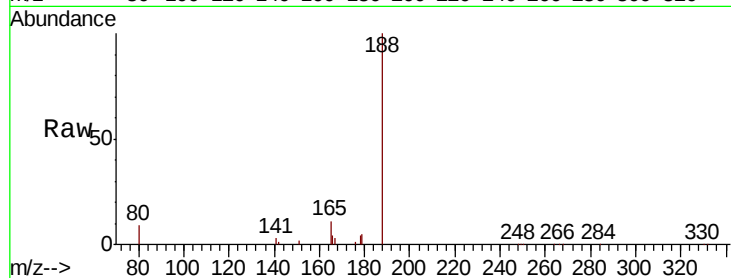
Tot Ion:188 Resp: 47958

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

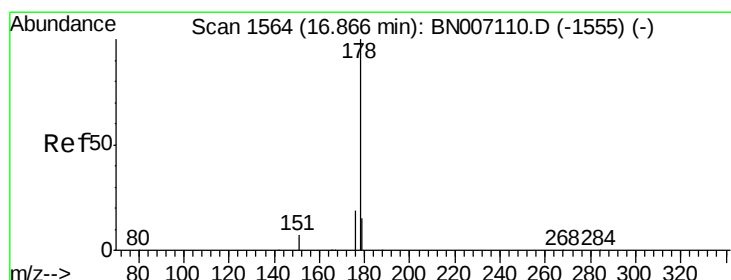
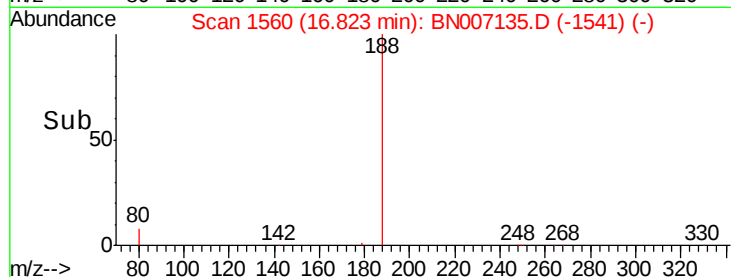
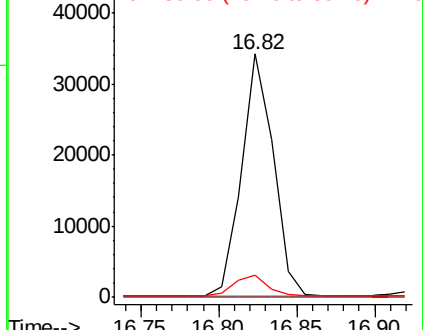
80 9.3 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 18.201 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

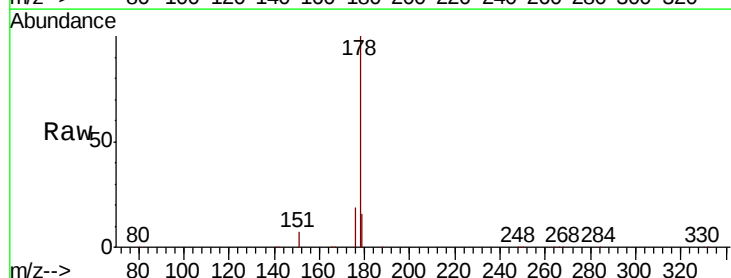
Tgt Ion:178 Resp: 2615962

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

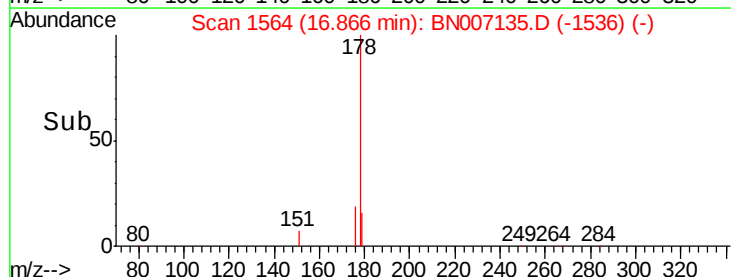
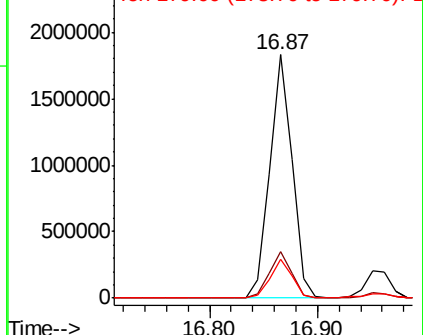
179 15.8 12.3 18.5



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: 2.499 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

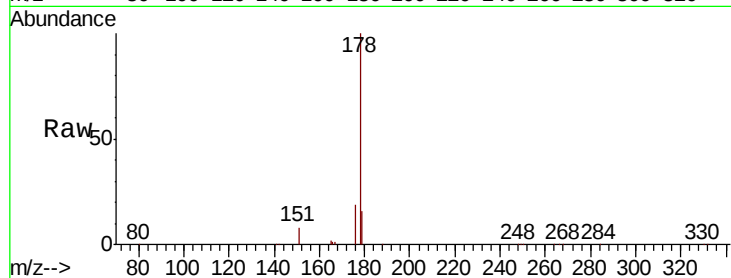
Tot Ion:178 Resp: 328192

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

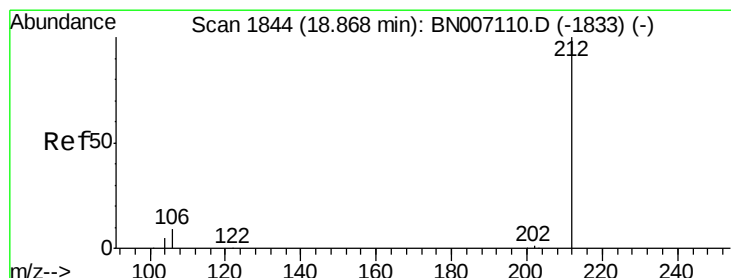
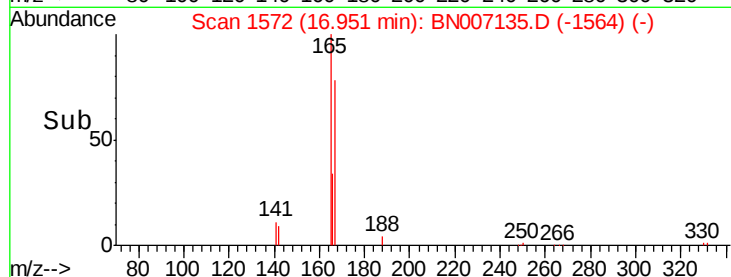
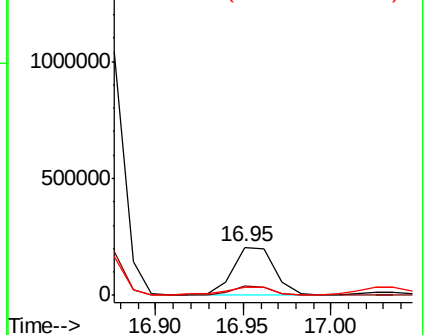
179 17.3 12.5 18.7



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: 0.162 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

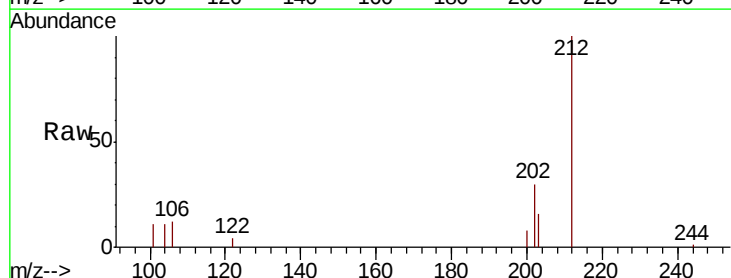
Tgt Ion:212 Resp: 27591

Ion Ratio Lower Upper

212 100

106 9.0 8.2 12.2

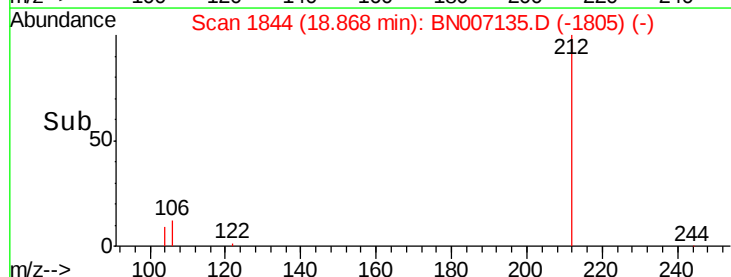
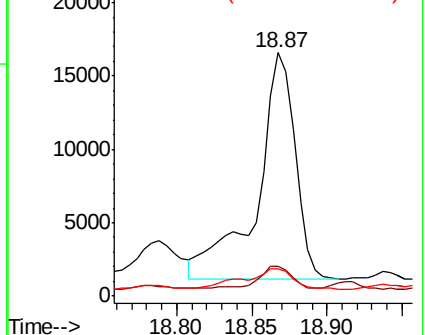
104 11.7 4.5 6.7#

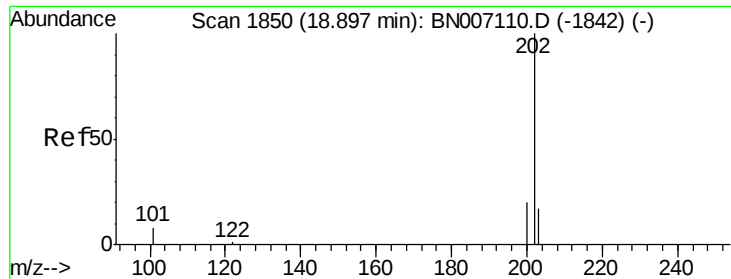


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 12.834 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

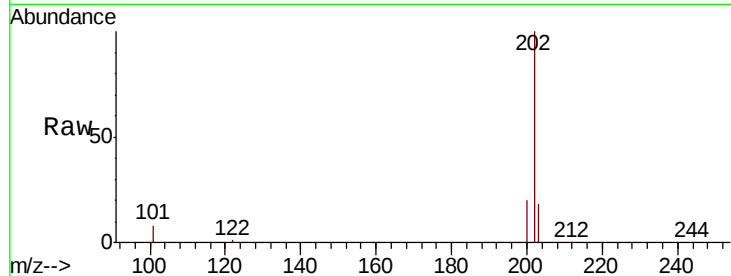
Tot Ion:202 Resp: 2359584

Ion Ratio Lower Upper

202 100

101 9.1 7.0 10.4

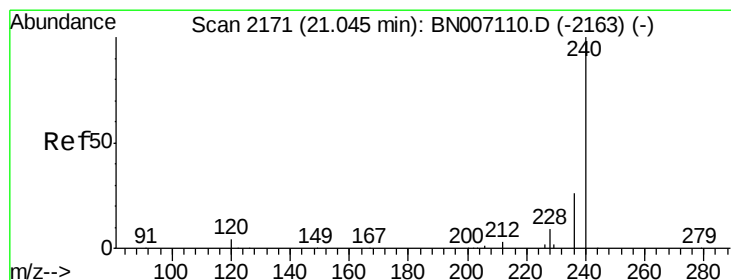
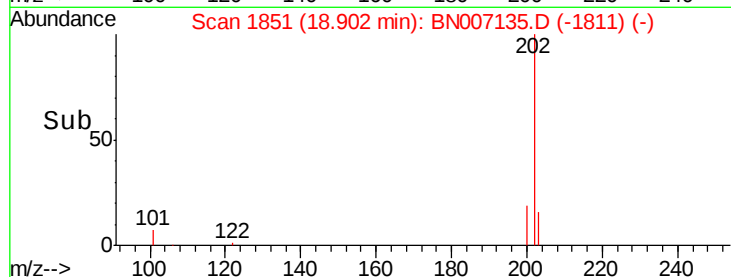
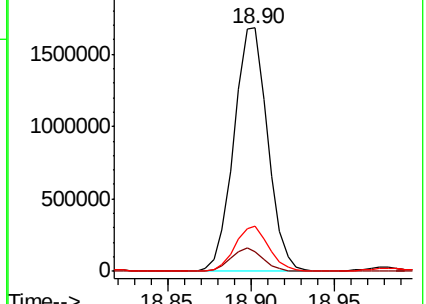
203 18.3 13.8 20.8



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: BN007135.D

Acq: 13 Aug 2019 17:07

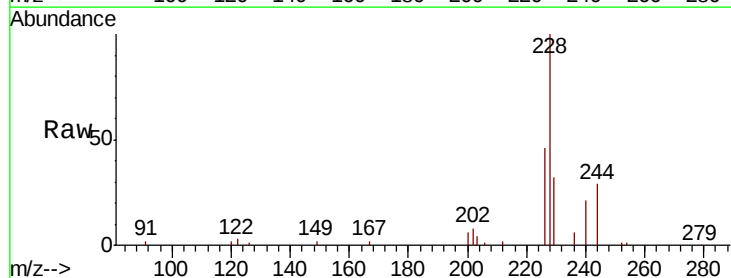
Tgt Ion:240 Resp: 47101

Ion Ratio Lower Upper

240 100

120 10.1 4.0 6.0#

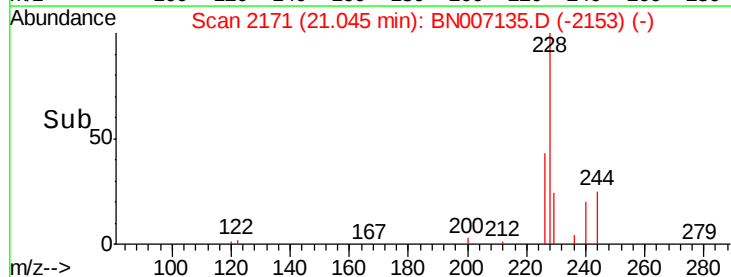
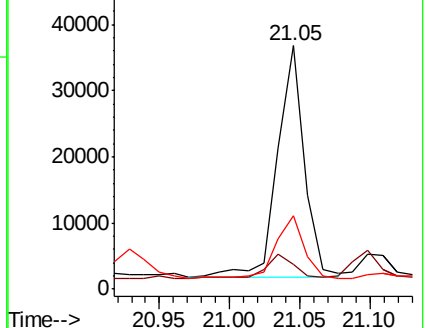
236 30.2 21.3 31.9



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

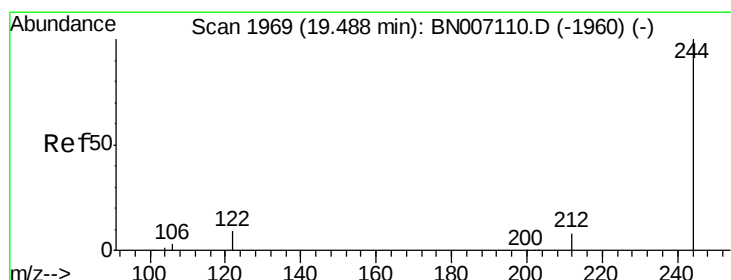
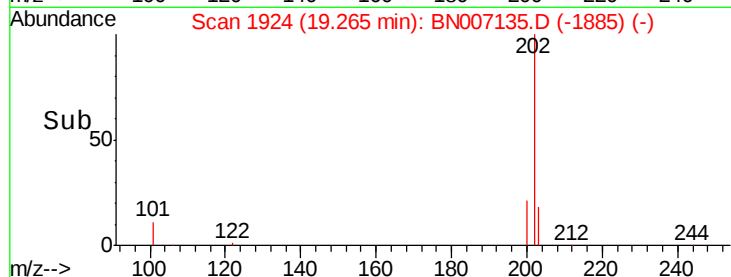
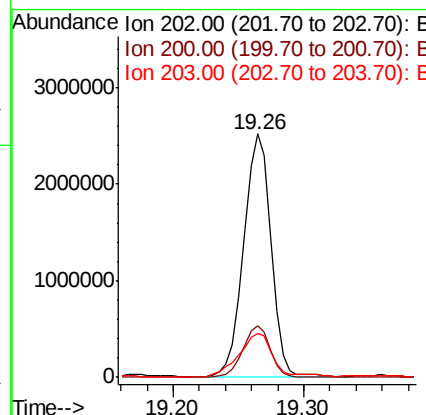
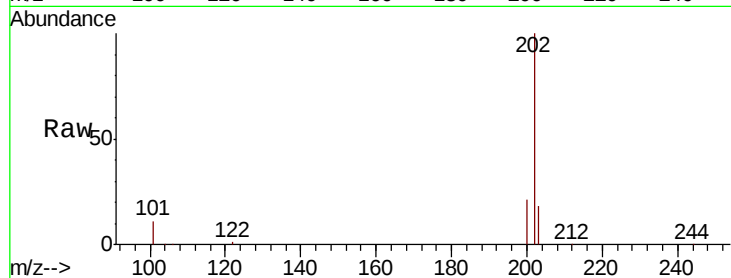




#27
Pvrene
Concen: 22.393 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

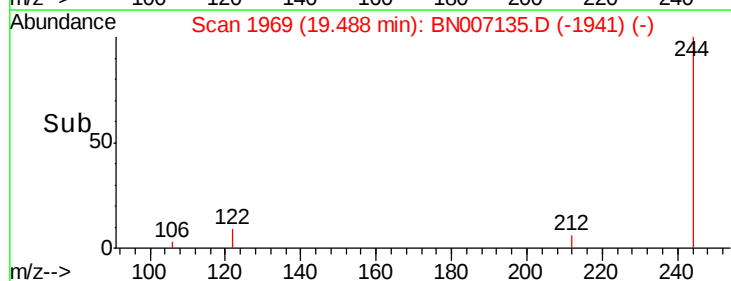
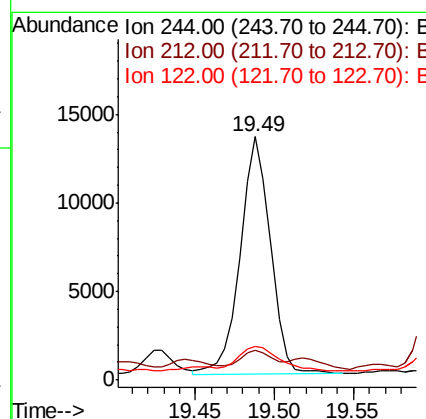
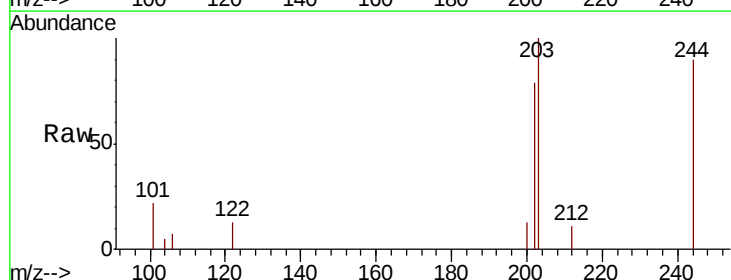
Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 3698806
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 21.3 14.0 21.0#



#28
Terphenyl-d14
Concen: 0.138 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007135.D
Acq: 13 Aug 2019 17:07

Tgt Ion:244 Resp: 17772
Ion Ratio Lower Upper
244 100
212 12.3 6.2 9.2#
122 14.0 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 8.310 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

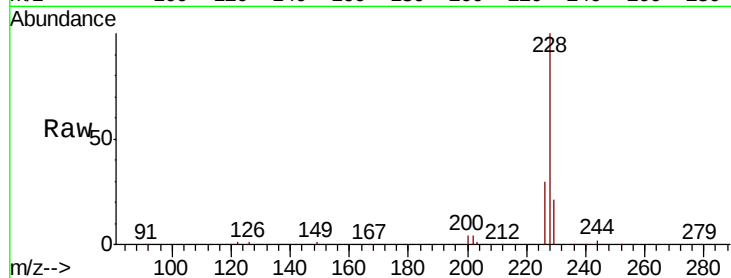
Tot Ion:228 Resp: 1431486

Ion Ratio Lower Upper

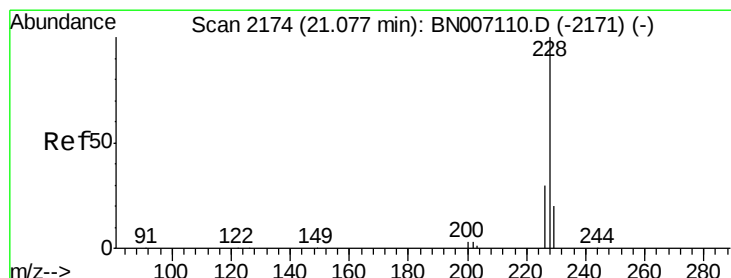
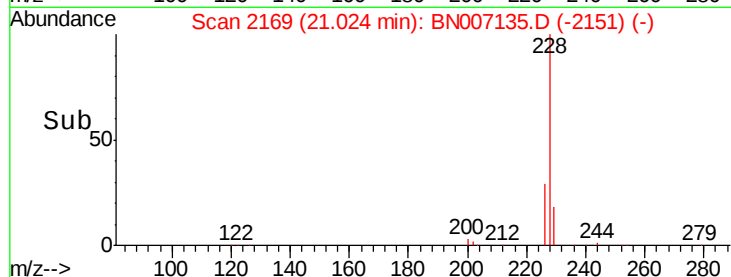
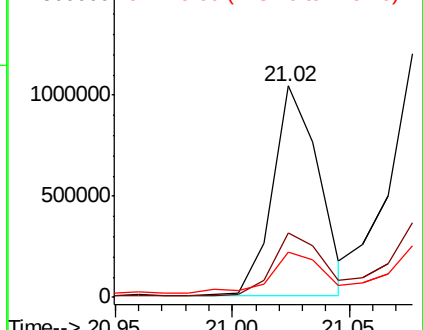
228 100

226 30.5 21.8 32.6

229 21.4 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: 10.422 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

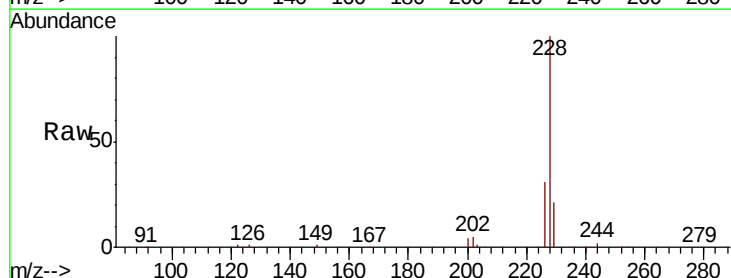
Tgt Ion:228 Resp: 1744165

Ion Ratio Lower Upper

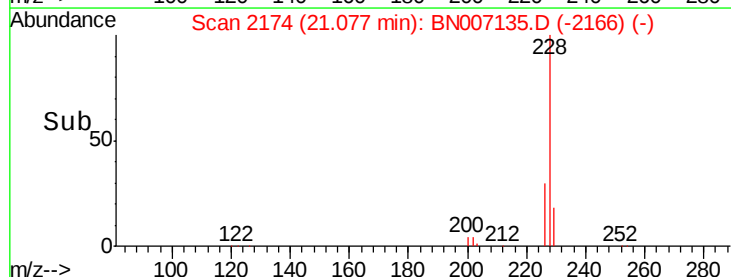
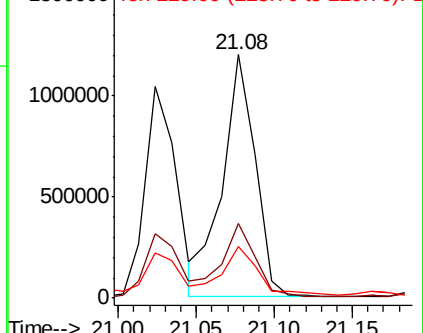
228 100

226 30.8 23.8 35.6

229 21.4 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: 3.573 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

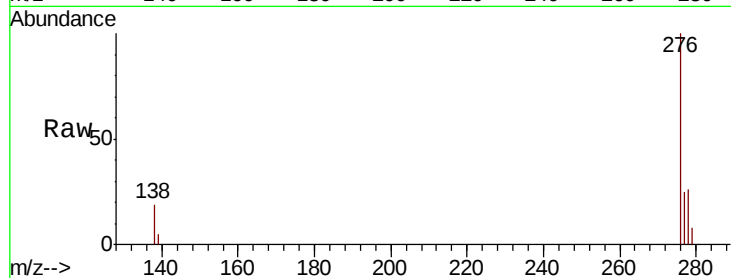
Tot Ion:276 Resp: 659044

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

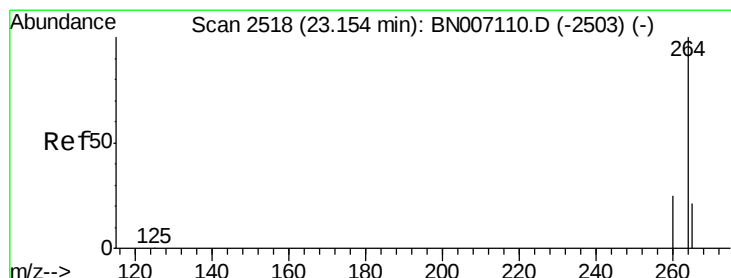
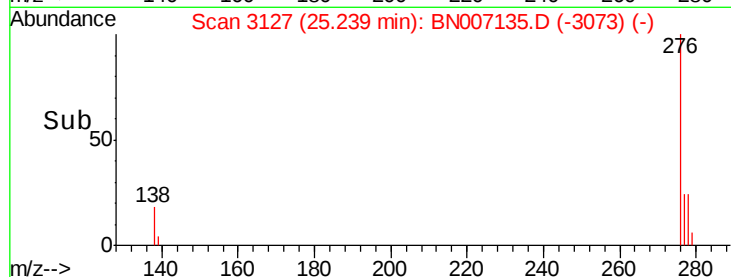
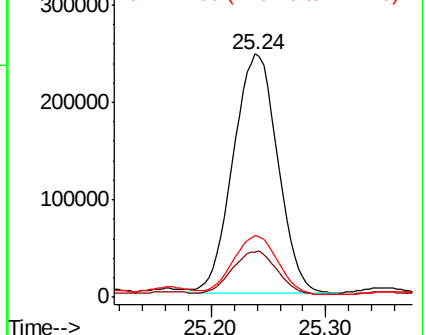
277 25.0 19.9 29.9



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

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

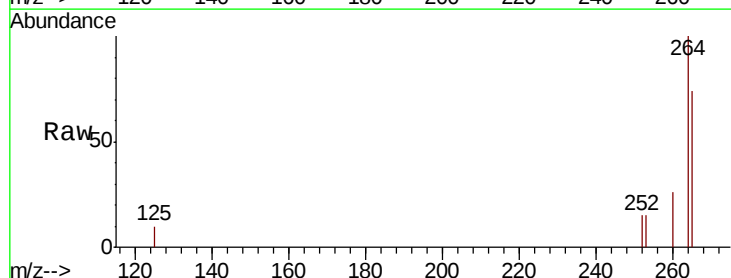
Tgt Ion:264 Resp: 58544

Ion Ratio Lower Upper

264 100

260 26.0 19.8 29.8

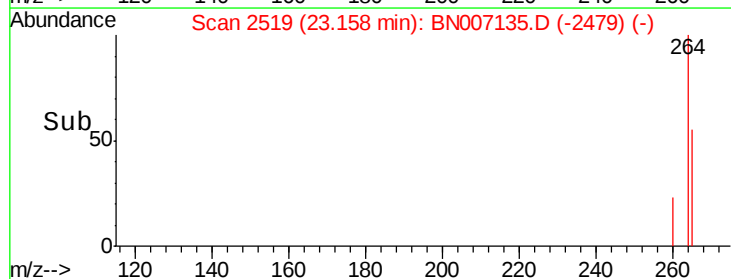
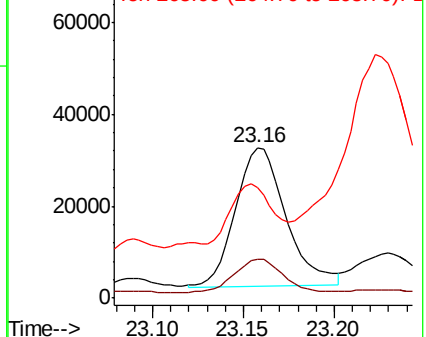
265 73.6 26.2 39.4#



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 6.868 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :

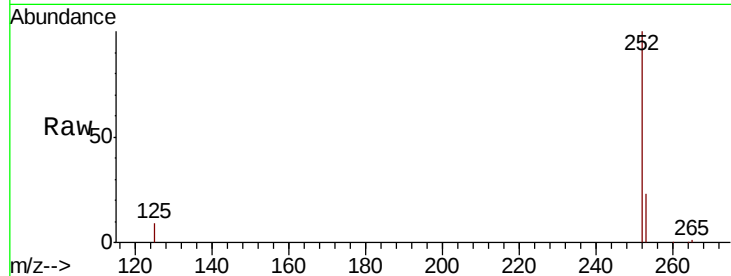
Tot Ion:252 Resp: 1378803

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

125 9.2 7.4 11.0

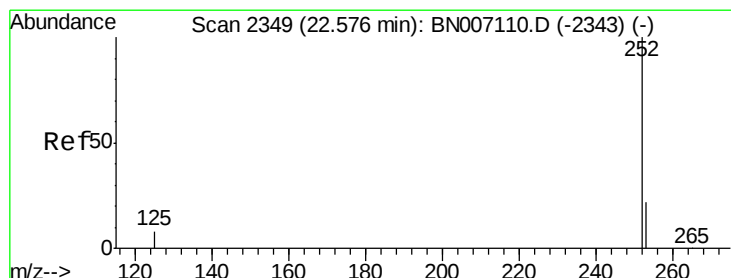
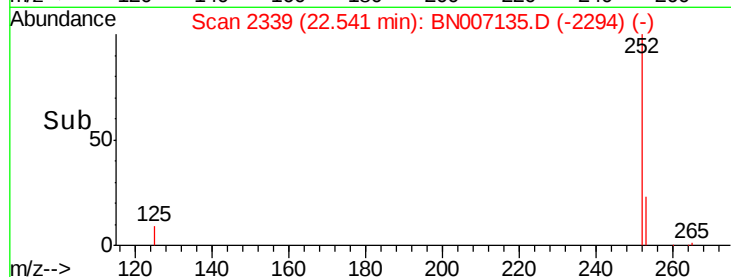
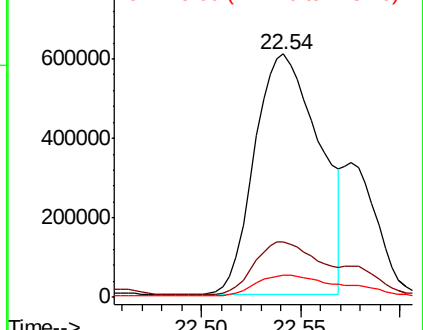


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(k)fluoranthene

Concen: 6.954 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

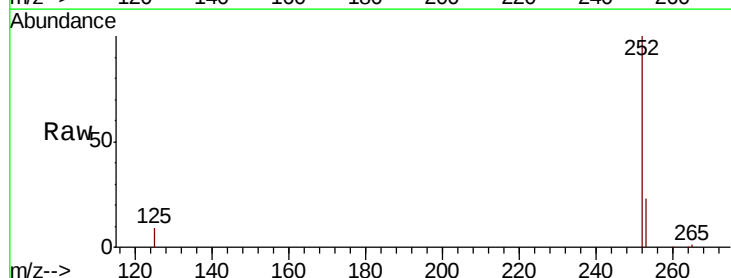
Tgt Ion:252 Resp: 1378803

Ion Ratio Lower Upper

252 100

253 22.7 18.1 27.1

125 9.2 7.4 11.0

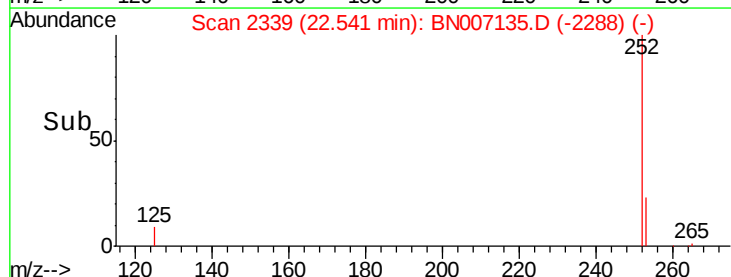
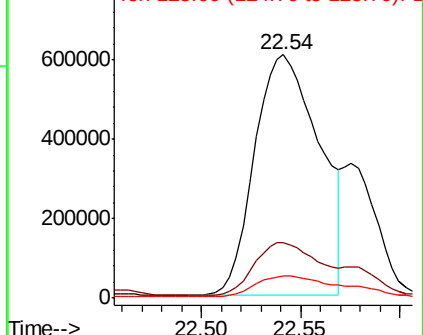


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 6.338 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampled :

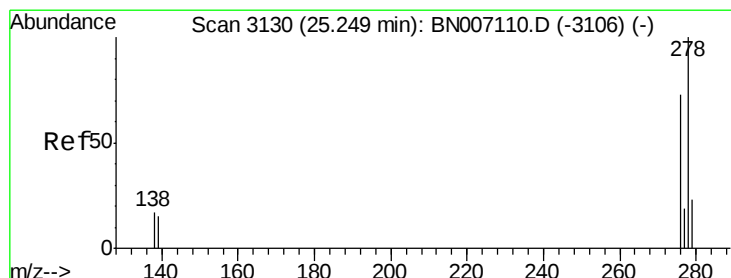
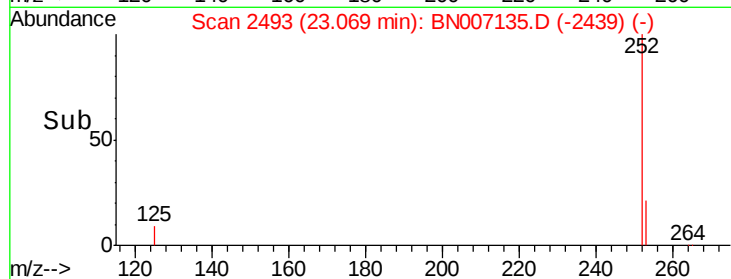
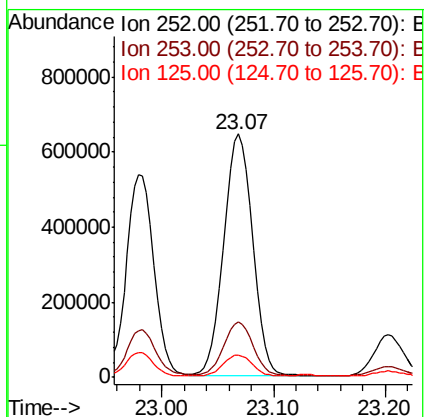
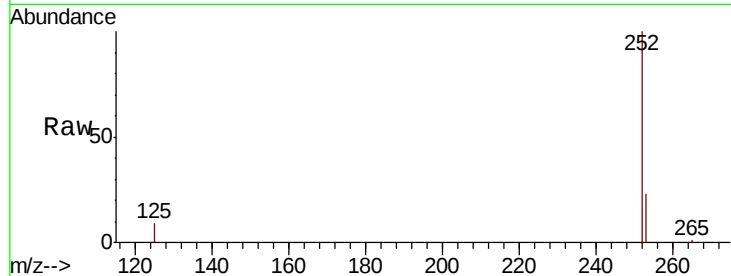
Tot Ion:252 Resp: 1153456

Ion Ratio Lower Upper

252 100

253 22.8 18.5 27.7

125 9.2 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 1.145 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

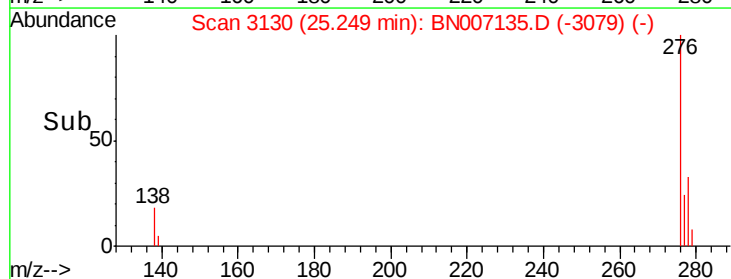
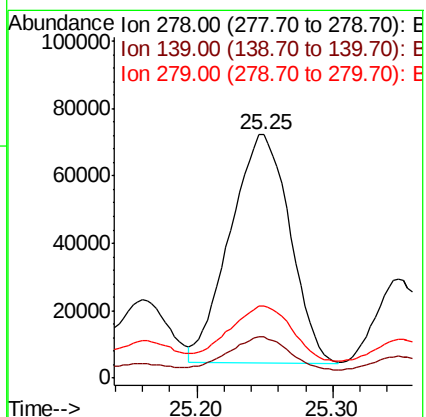
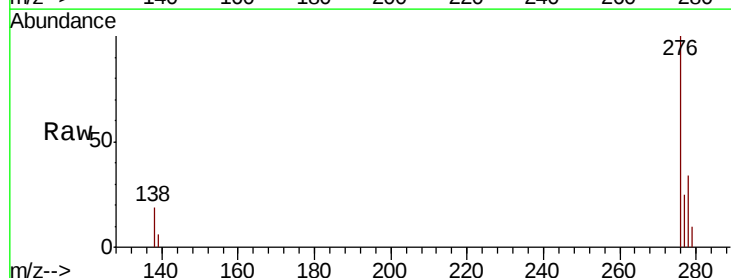
Tgt Ion:278 Resp: 207857

Ion Ratio Lower Upper

278 100

139 16.9 11.3 16.9

279 29.5 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 4.207 ng

RT: 25.87 min Scan# 3311

Delta R.T. -0.01 min

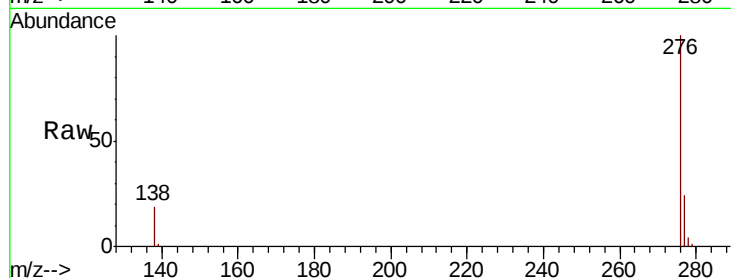
Lab File: BN007135.D

Acq: 13 Aug 2019 17:07

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 785810

Ion Ratio Lower Upper

276 100

277 24.4 19.8 29.8

138 19.0 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

