

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081319\
 Data File : BN007136.D
 Acq On : 13 Aug 2019 17:43
 Operator : HP/JU
 Sample : K4173-10
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 14 03:13:00 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	9949	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38830	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22549	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	50551	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48767	0.40	ng	-0.01
32) Perylene-d12	23.16	264	56954	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	6116	0.26	ng	0.00
4) Phenol-d6	6.62	99	8165	0.28	ng	0.00
7) Nitrobenzene-d5	8.56	82	6616	0.21	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14719	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2414	0.20	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3742	0.11	ng	0.00
24) Fluoranthene-d10	18.87	212	35341	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	26187	0.20	ng	-0.01

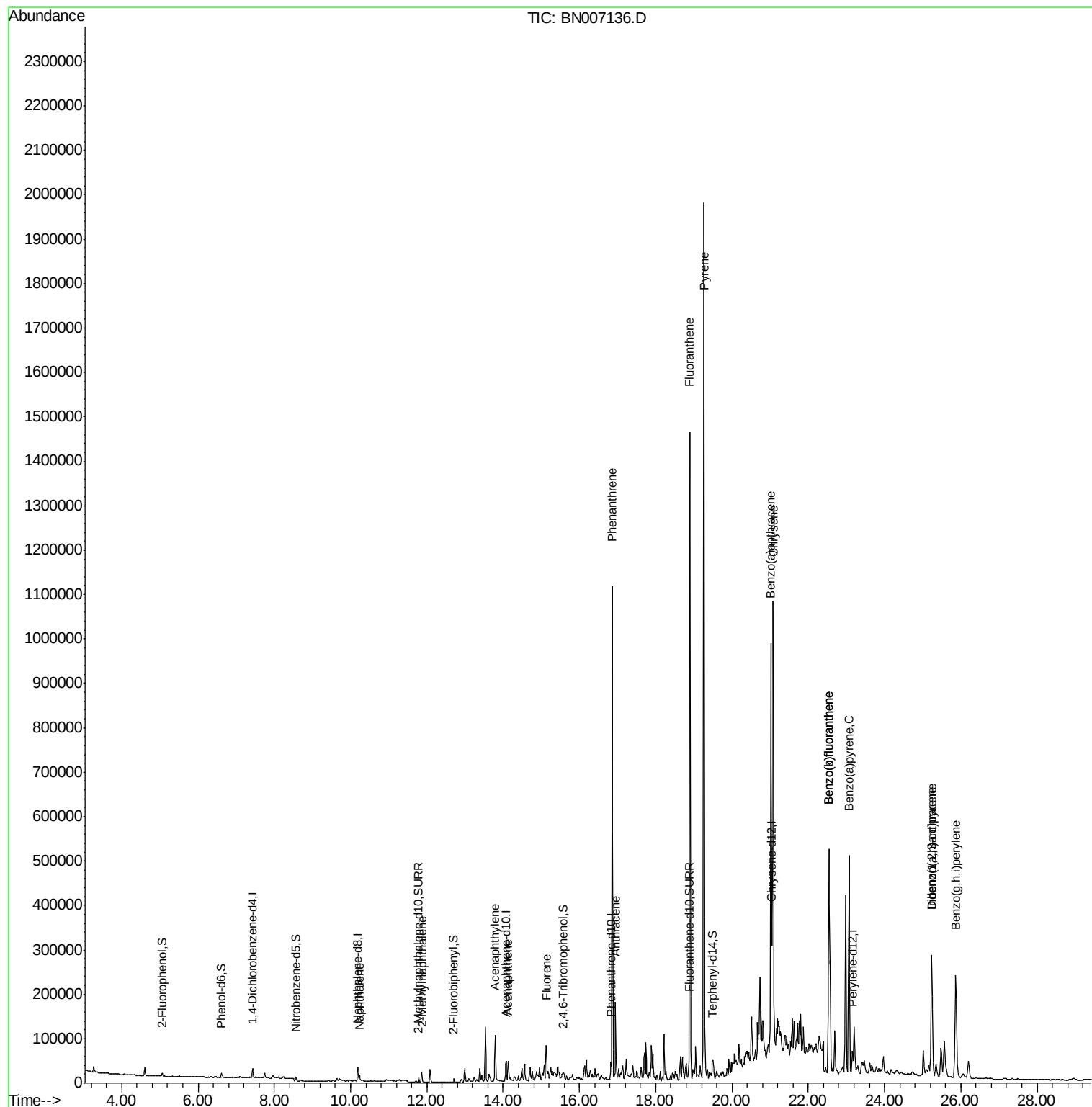
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	18913	0.174	ng	98
11) 2-Methylnaphthalene	11.87	142	18125	0.235	ng	96
15) Acenaphthylene	13.79	152	133147	1.130	ng	99
16) Acenaphthene	14.13	154	25424	0.337	ng	97
17) Fluorene	15.13	166	56390	0.499	ng	89
22) Phenanthrene	16.87	178	1103704	7.285	ng	100
23) Anthracene	16.95	178	198535	1.434	ng	98
25) Fluoranthene	18.90	202	1322611	6.825	ng	99
27) Pyrene	19.26	202	1775865	10.384	ng	96
29) Benzo(a)anthracene	21.02	228	778165	4.363	ng	94
30) Chrysene	21.08	228	908945	5.246	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	402512	2.108	ng	99
33) Benzo(b)fluoranthene	22.54	252	799495	4.094	ng	99
34) Benzo(k)fluoranthene	22.54	252	799495	4.145	ng	99
35) Benzo(a)pyrene	23.07	252	649834	3.670	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	121429	0.687	ng	# 86
37) Benzo(a,h,i)perylene	25.87	276	460422	2.534	ng	99

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

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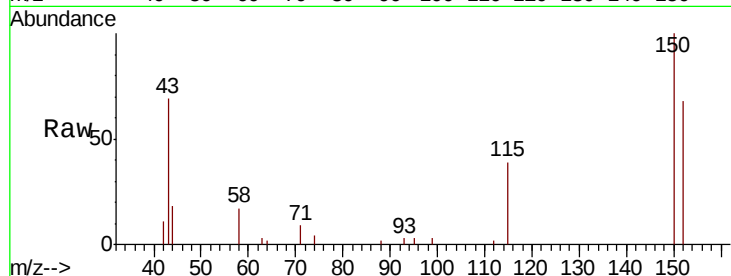


#1

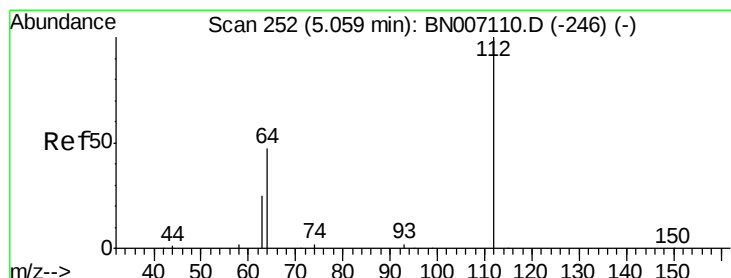
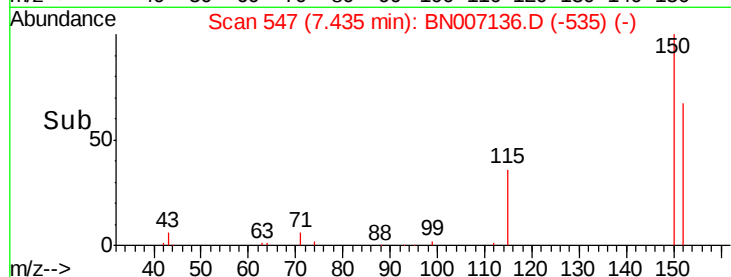
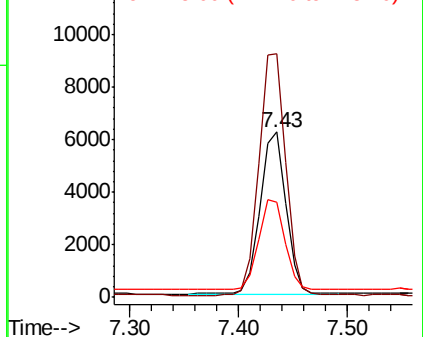
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9949
Ion Ratio Lower Upper
152 100
150 147.6 121.7 182.5
115 57.8 46.2 69.4



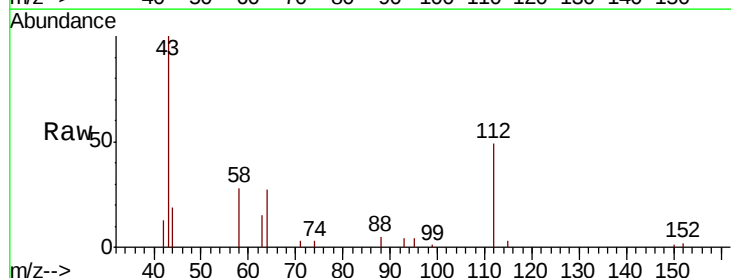
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



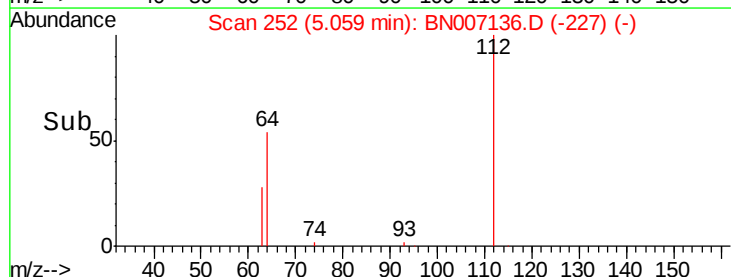
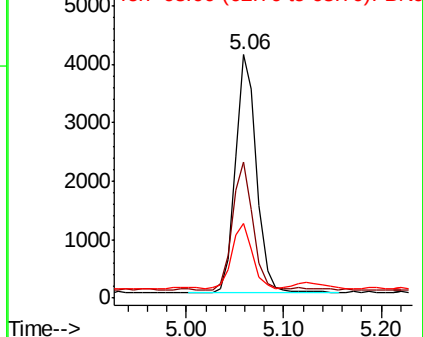
#3

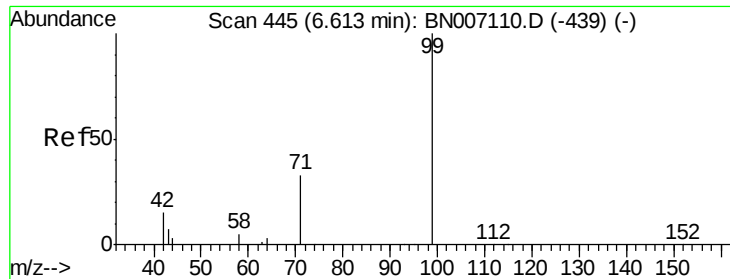
2-Fluorophenol
Concen: 0.256 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Tgt Ion:112 Resp: 6116
Ion Ratio Lower Upper
112 100
64 51.8 42.6 63.8
63 26.7 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: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

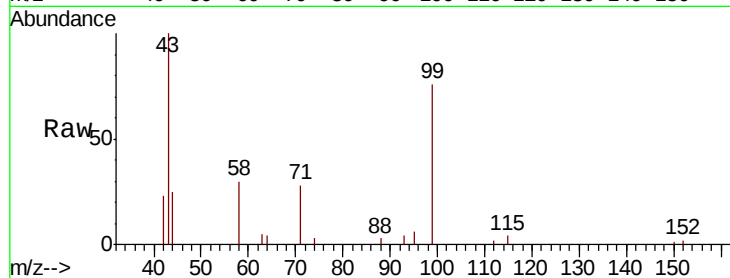
Tot Ion: 99 Resp: 8165

Ion Ratio Lower Upper

99 100

42 21.3 15.8 23.6

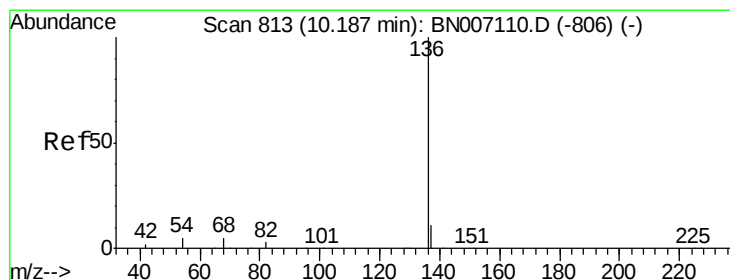
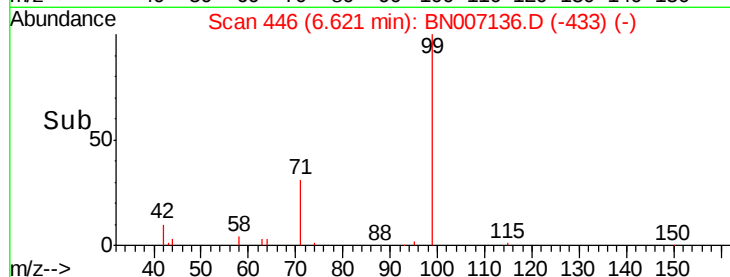
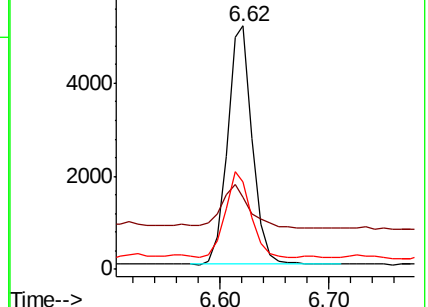
71 36.9 27.0 40.4



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: BN007136.D

Acq: 13 Aug 2019 17:43

Tgt Ion: 136 Resp: 38830

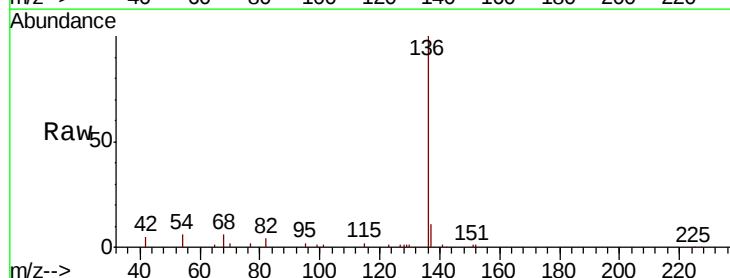
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.3 6.6 9.8#

68 5.9 6.0 9.0#

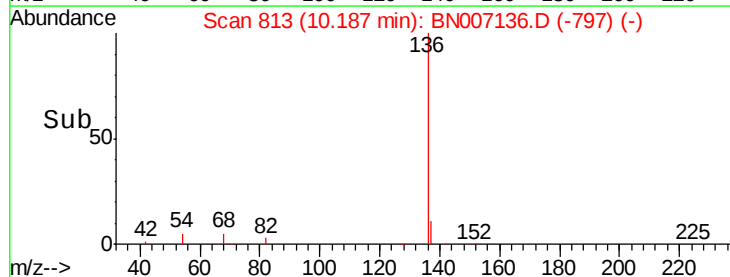
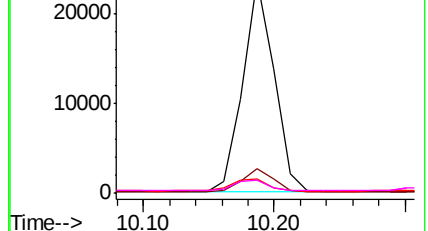


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.211 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

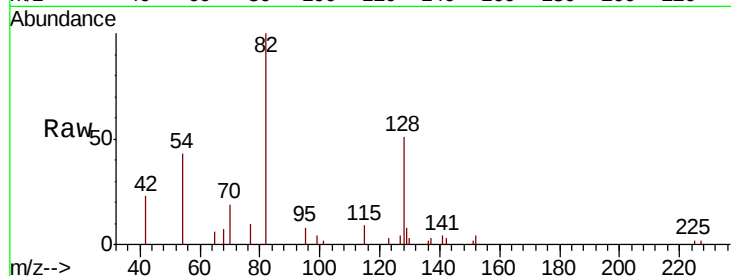
Tot Ion: 82 Resp: 6616

Ion Ratio Lower Upper

82 100

128 50.5 34.6 51.8

54 43.1 36.2 54.4

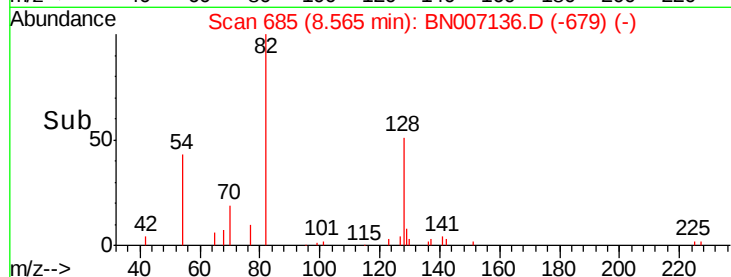


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

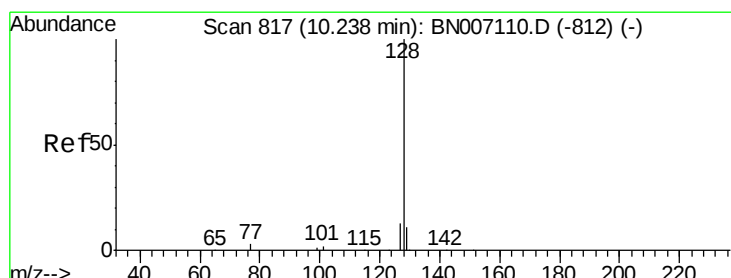
Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

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

Time-->



Time-->



#8

Naphthalene

Concen: 0.174 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

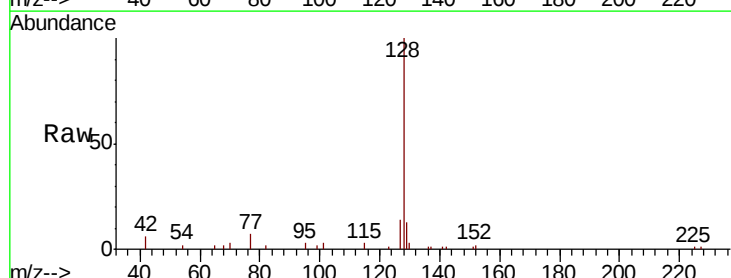
Tgt Ion: 128 Resp: 18913

Ion Ratio Lower Upper

128 100

129 12.7 9.4 14.2

127 14.3 11.0 16.6

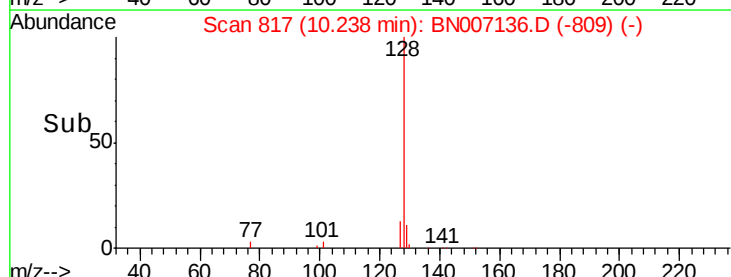


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.203 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

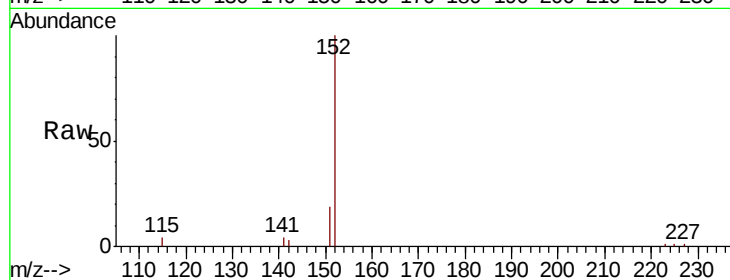
ClientSampled :

Tot Ion:152 Resp: 14719

Ion Ratio Lower Upper

152 100

151 20.7 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

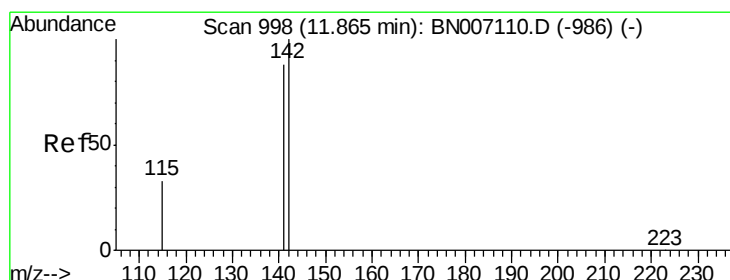
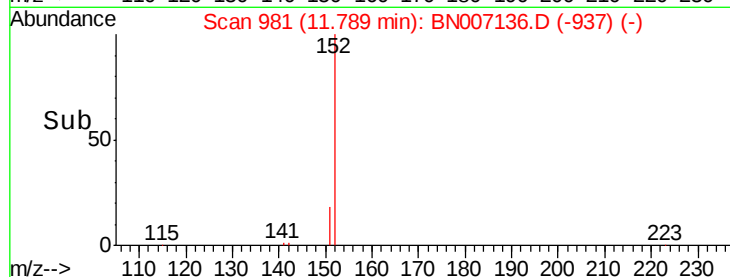
4000

2000

0

Time-->

11.70 11.80



#11

2-Methylnaphthalene

Concen: 0.235 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

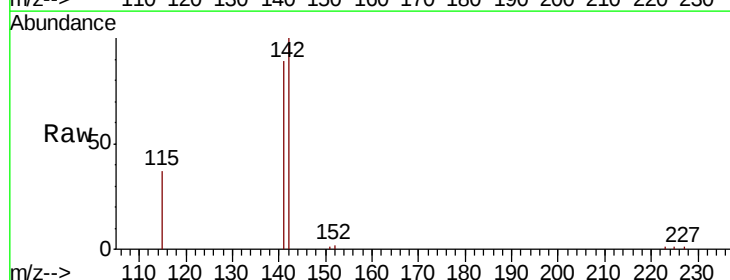
Tgt Ion:142 Resp: 18125

Ion Ratio Lower Upper

142 100

141 88.9 69.0 103.6

115 37.1 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

15000

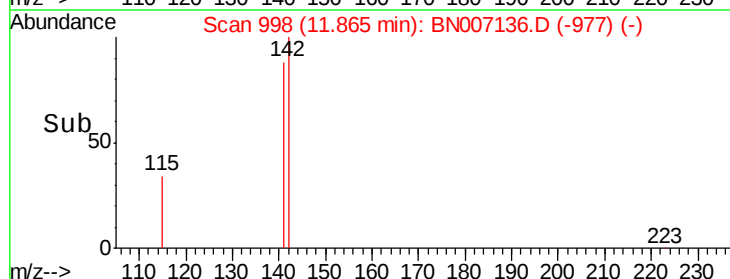
10000

5000

0

Time-->

11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

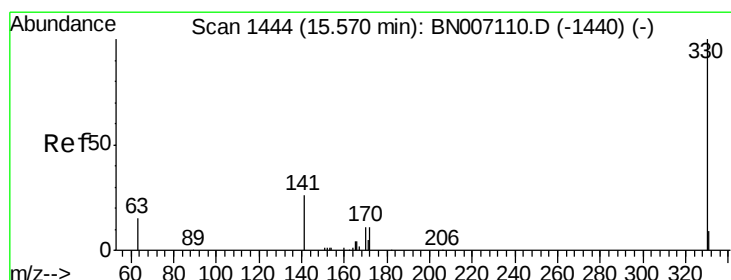
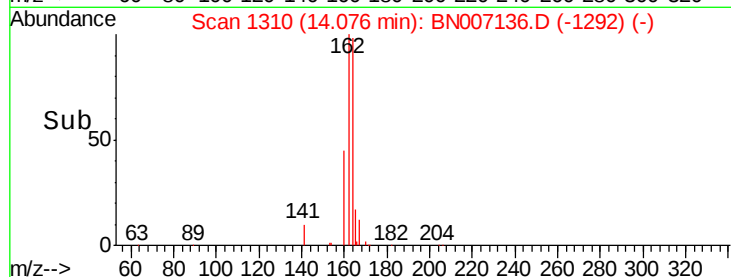
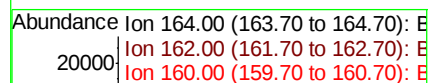
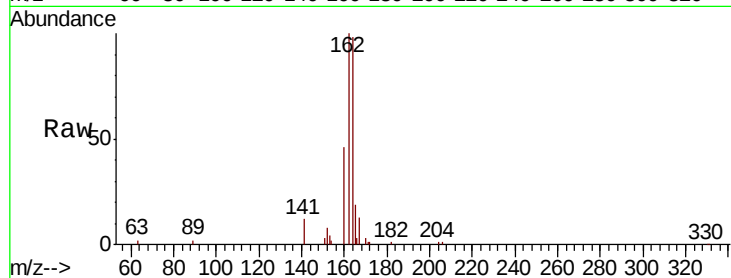
Tot Ion:164 Resp: 22549

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.4

160 46.9 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.199 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

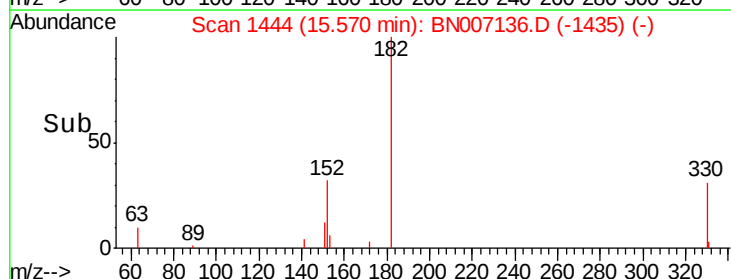
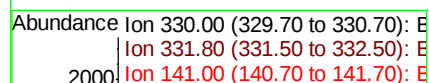
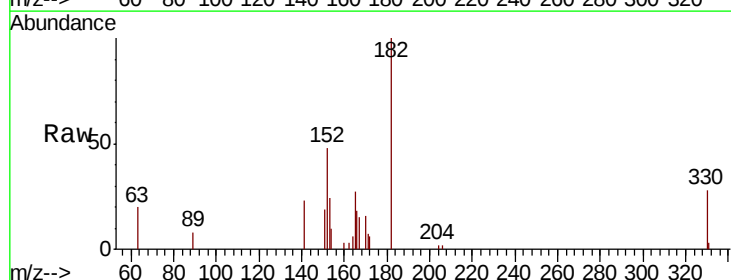
Tgt Ion:330 Resp: 2414

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

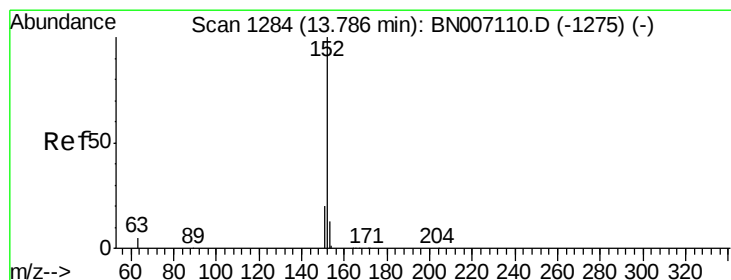
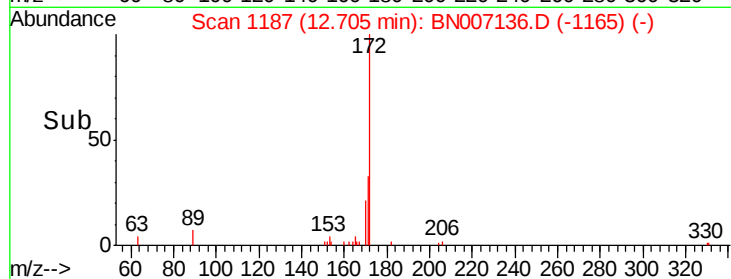
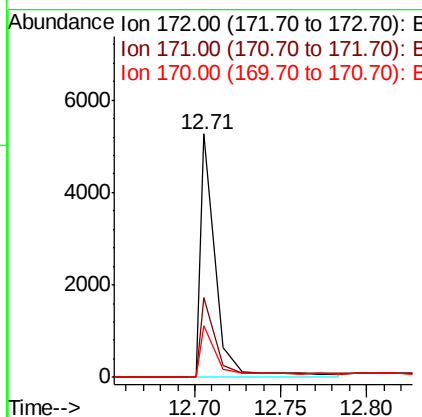
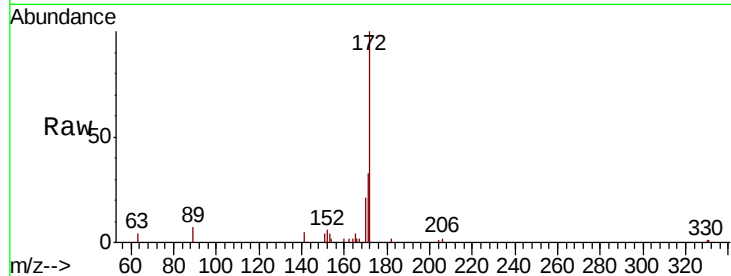




#14
2-Fluorobiphenyl
Concen: 0.114 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

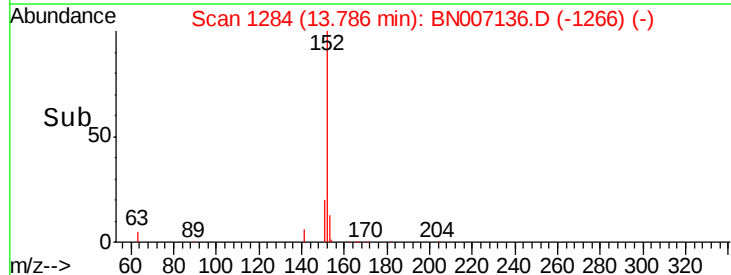
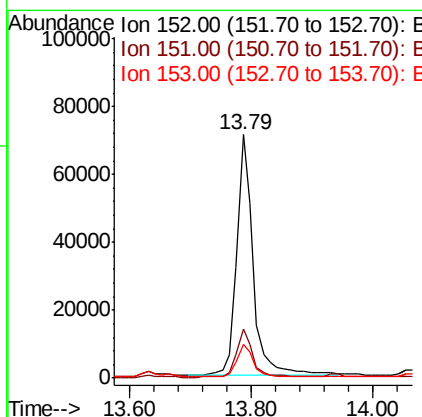
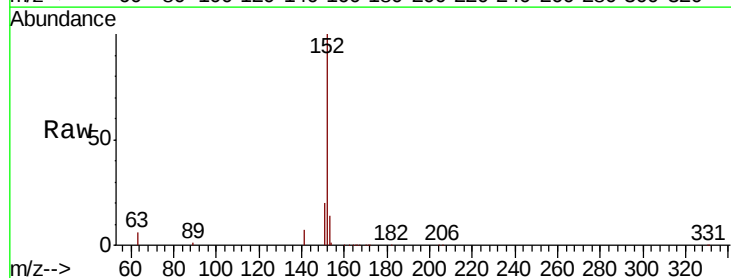
Instrument :
BNA_N
ClientSampleId :

Tot Ion:172 Resp: 3742
Ion Ratio Lower Upper
172 100
171 32.9 26.3 39.5
170 21.0 17.0 25.4



#15
Acenaphthylene
Concen: 1.130 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Tgt Ion:152 Resp: 133147
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.7 10.4 15.6





#16

Acenaphthene

Concen: 0.337 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

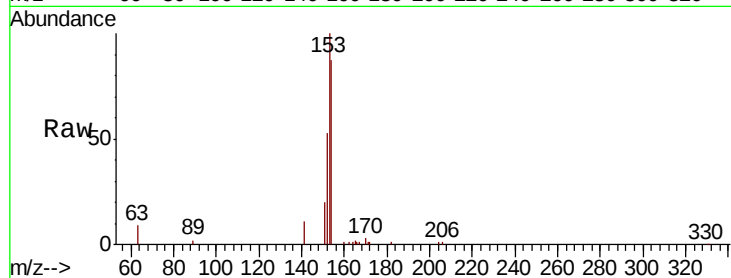
Tot Ion:154 Resp: 25424

Ion Ratio Lower Upper

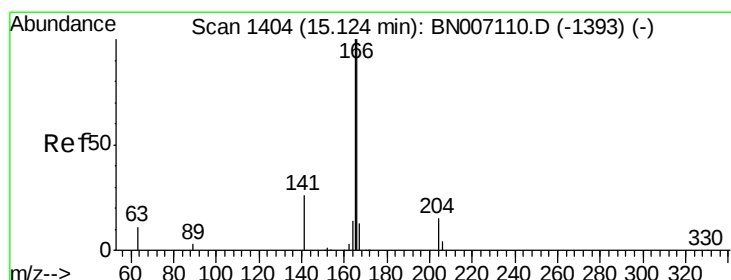
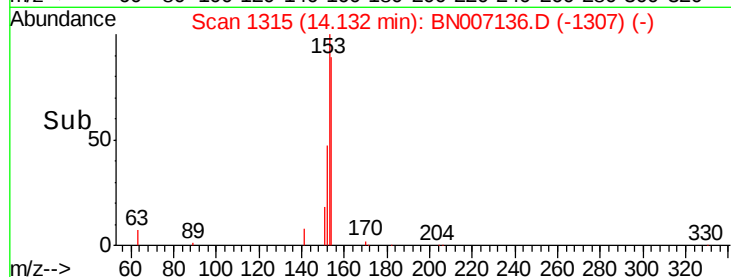
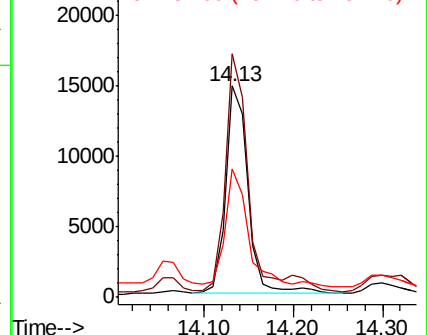
154 100

153 111.5 89.5 134.3

152 62.1 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: 0.499 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

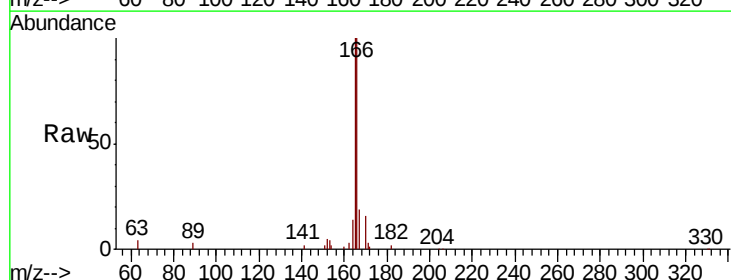
Tgt Ion:166 Resp: 56390

Ion Ratio Lower Upper

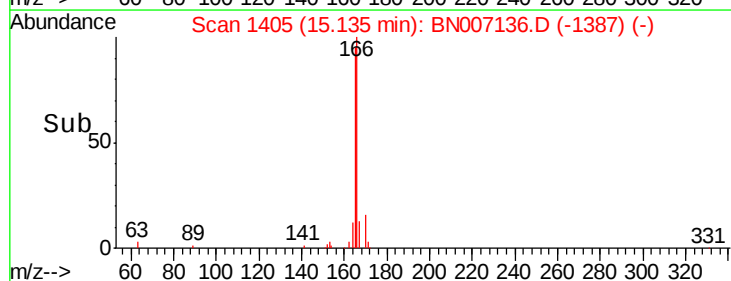
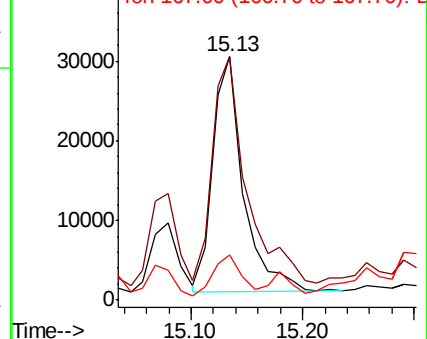
166 100

165 109.0 77.9 116.9

167 15.5 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

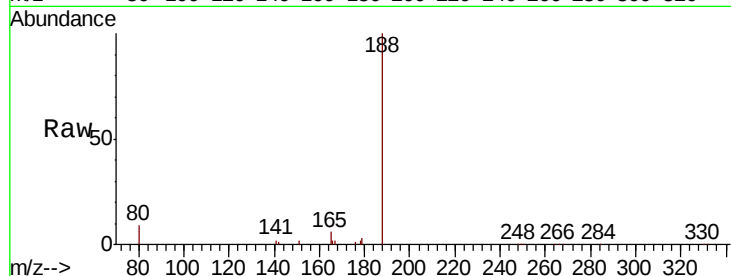




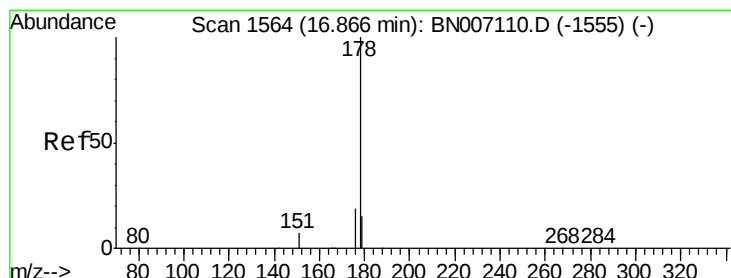
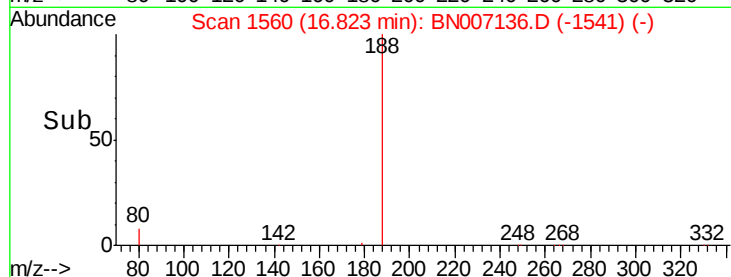
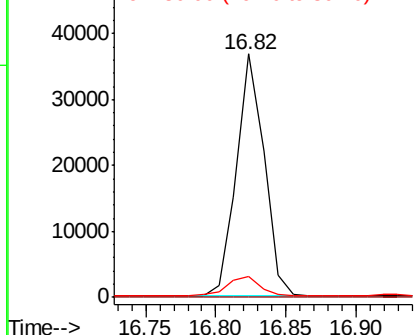
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Instrument :
BNA_N
ClientSampleId :

Tot Ion:188 Resp: 50551
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 7.8 11.6

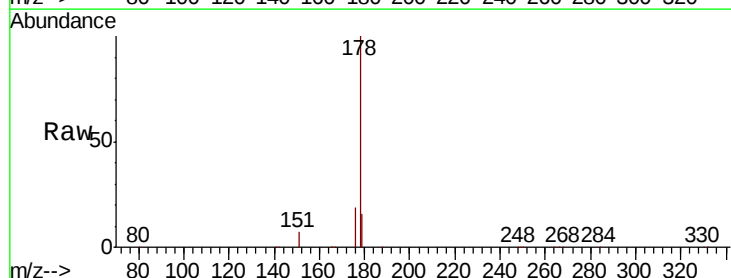


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BNC
Ion 80.00 (79.70 to 80.70): BNC

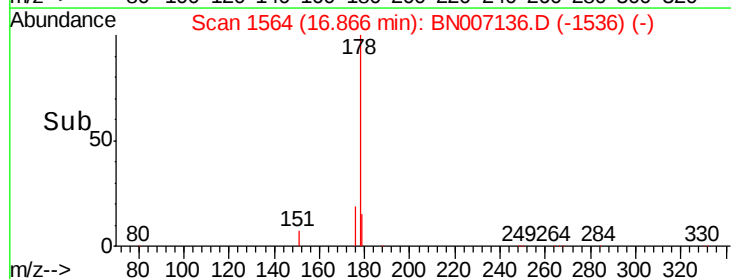
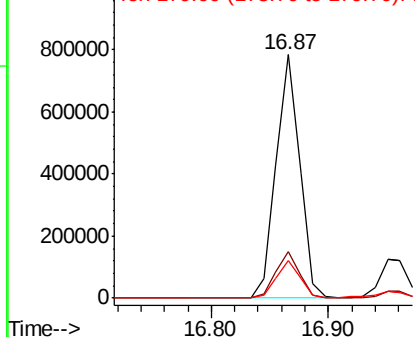


#22
Phenanthrene
Concen: 7.285 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Tgt Ion:178 Resp: 1103704
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.7 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: 1.434 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampled :

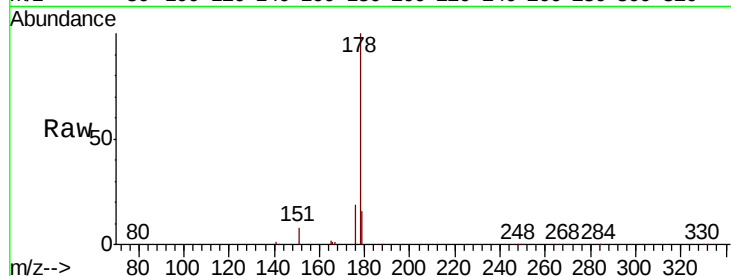
Tot Ion:178 Resp: 198535

Ion Ratio Lower Upper

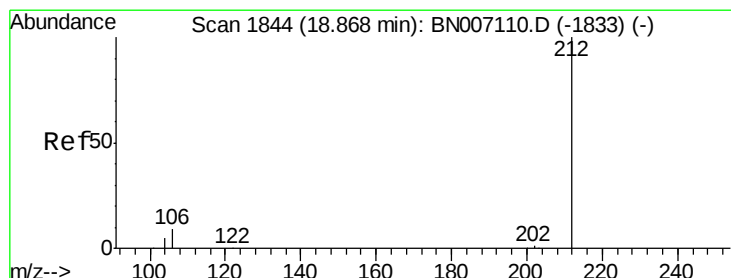
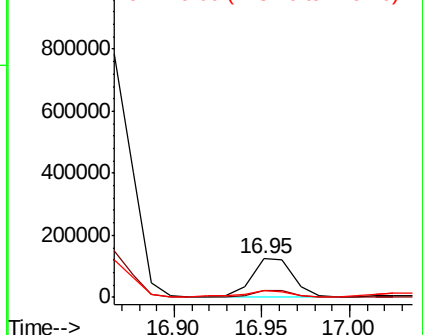
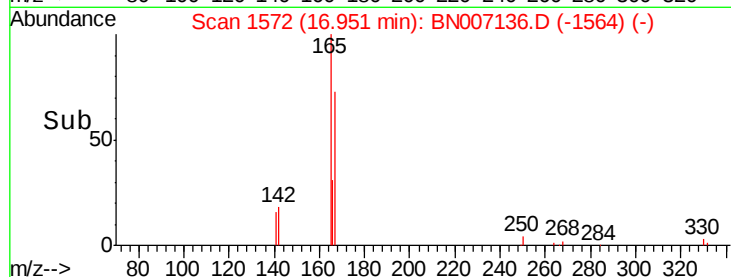
178 100

176 18.2 14.6 21.8

179 17.6 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: 0.197 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

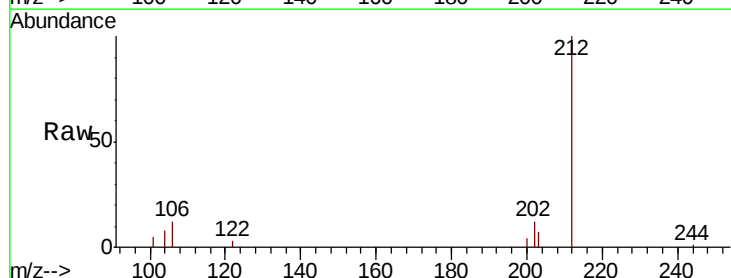
Tgt Ion:212 Resp: 35341

Ion Ratio Lower Upper

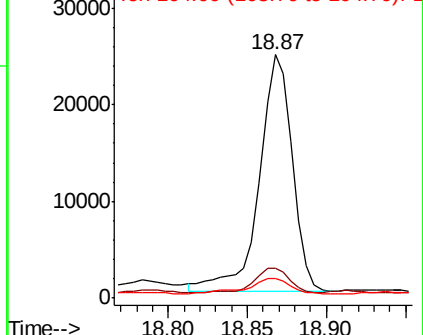
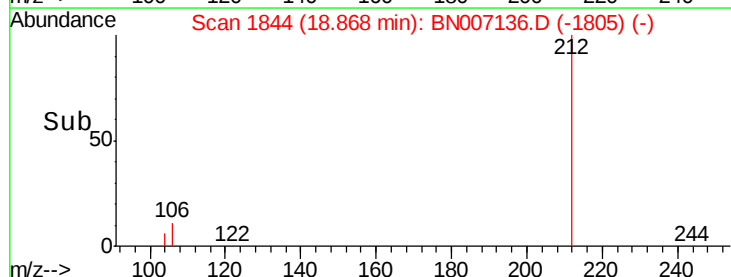
212 100

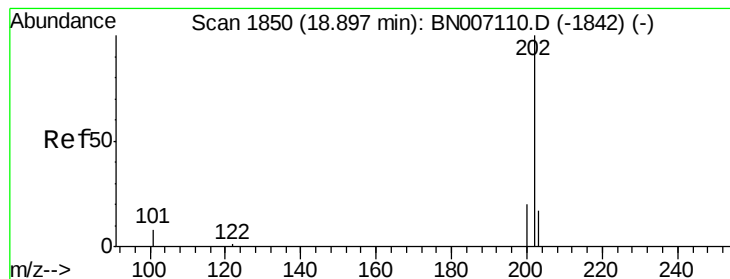
106 10.2 8.2 12.2

104 7.9 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: 6.825 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampled :

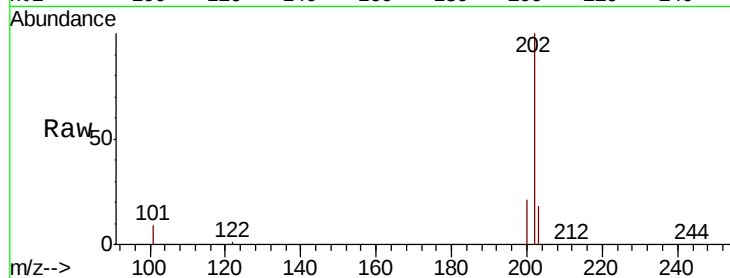
Tot Ion:202 Resp: 1322611

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

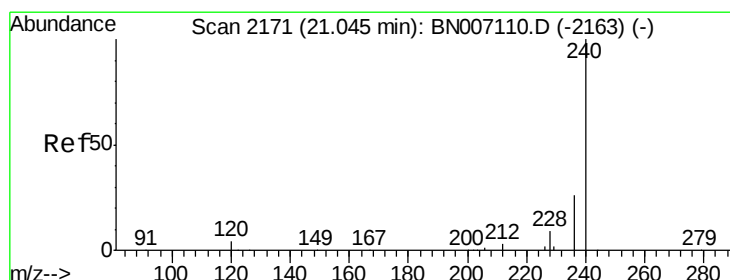
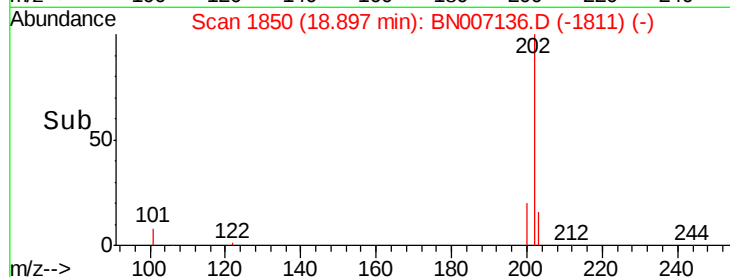
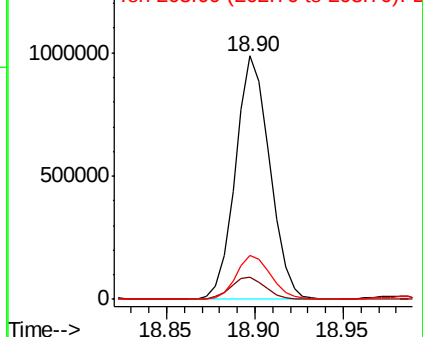
203 18.0 13.8 20.8



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: BN007136.D

Acq: 13 Aug 2019 17:43

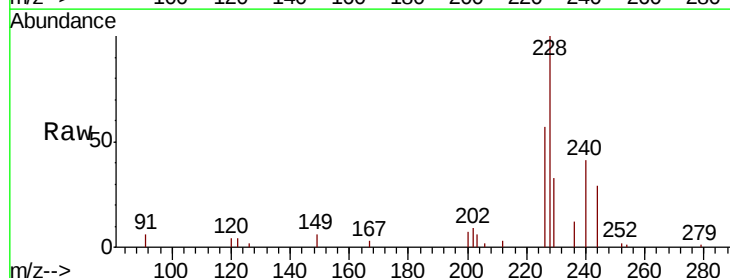
Tgt Ion:240 Resp: 48767

Ion Ratio Lower Upper

240 100

120 9.7 4.0 6.0#

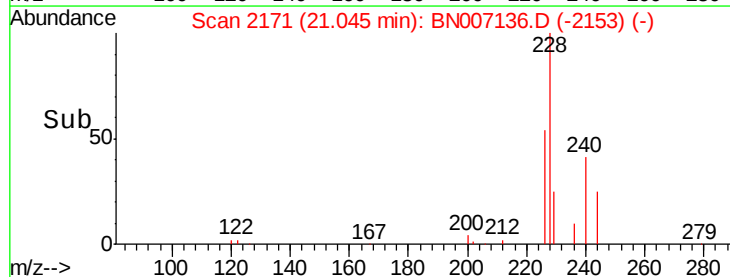
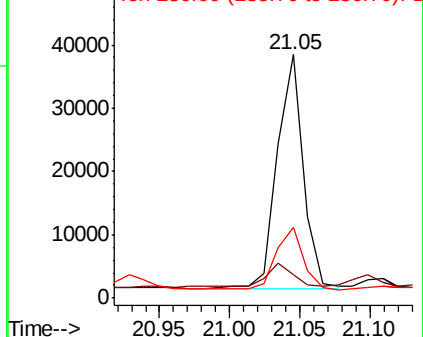
236 29.1 21.3 31.9

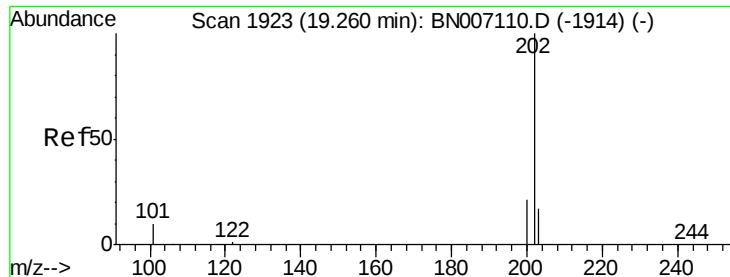


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

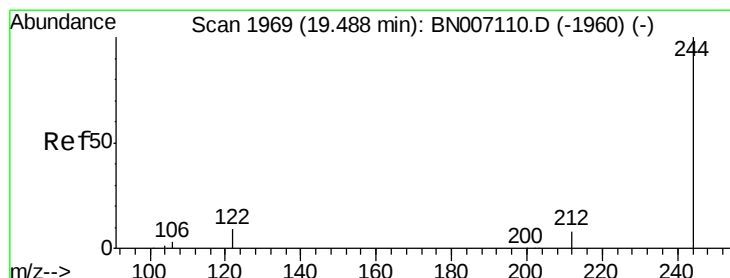
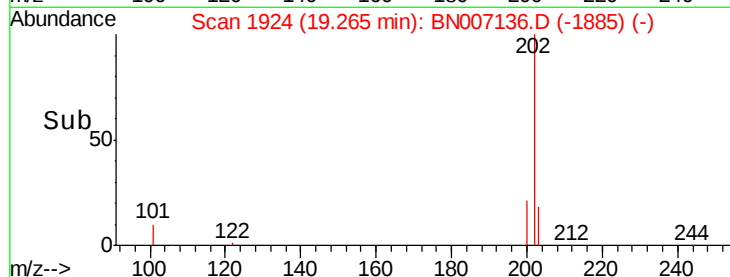
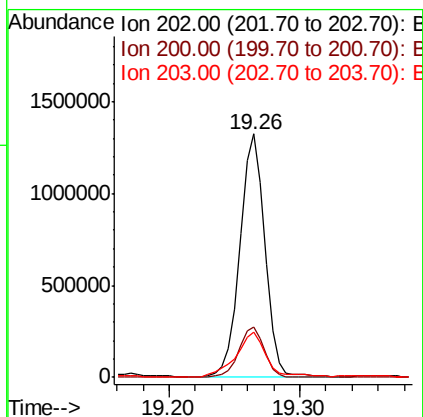
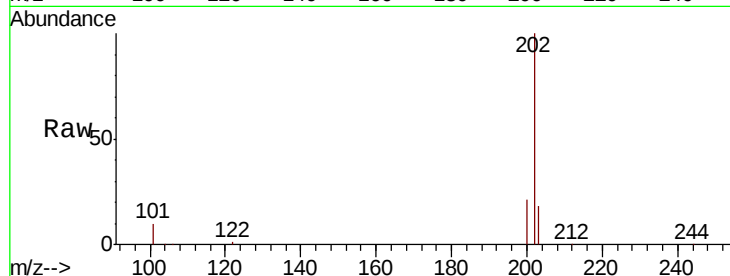




#27
Pvrene
Concen: 10.384 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

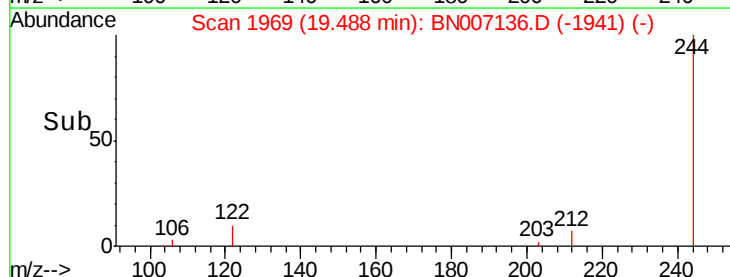
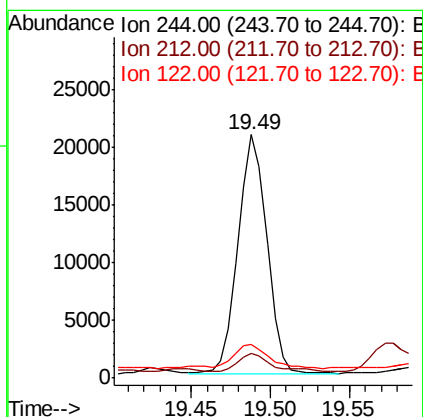
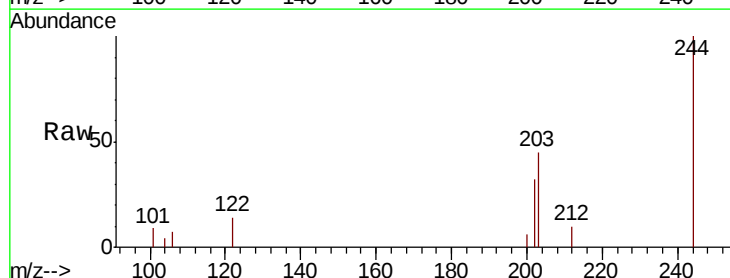
Instrument :
BNA_N
ClientSampleId :

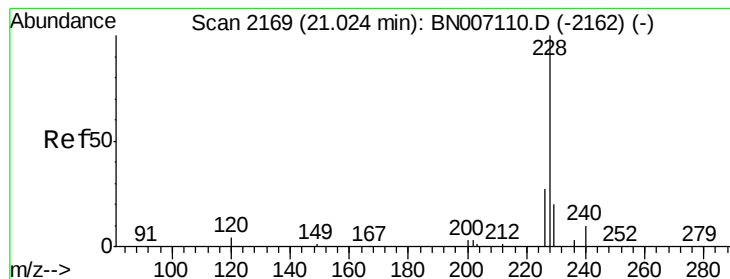
Tot Ion:202 Resp: 1775865
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.7 14.0 21.0



#28
Terphenyl-d14
Concen: 0.197 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Tgt Ion:244 Resp: 26187
Ion Ratio Lower Upper
244 100
212 10.3 6.2 9.2#
122 14.0 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 4.363 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

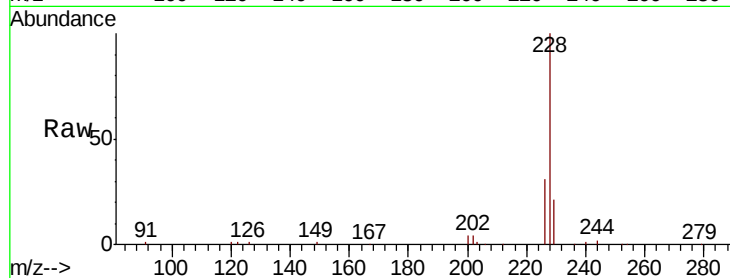
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 778165

Ion	Ratio	Lower	Upper
228	100		
226	31.3	21.8	32.6
229	21.3	15.6	23.4

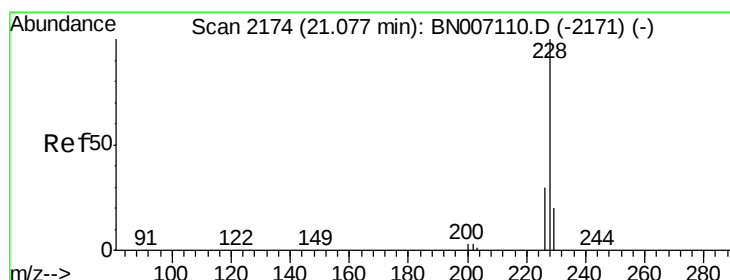
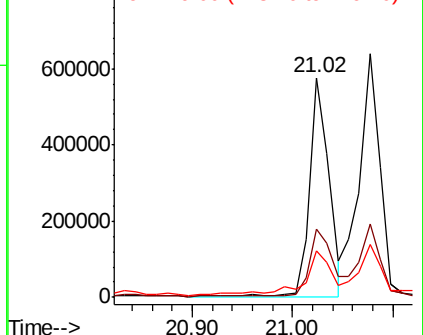
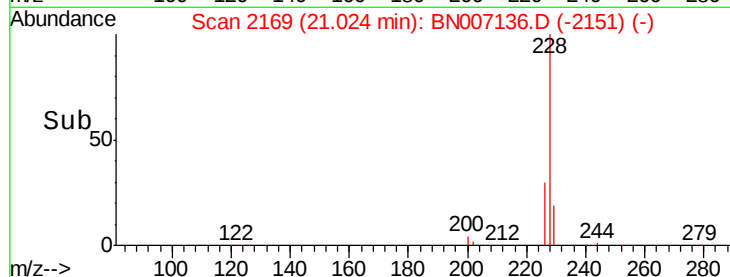


Abundance

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: 5.246 ng

RT: 21.08 min Scan# 2174

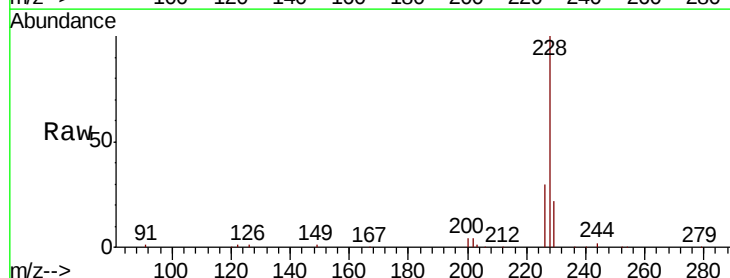
Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Tgt Ion:228 Resp: 908945

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.6
229	21.8	15.7	23.5

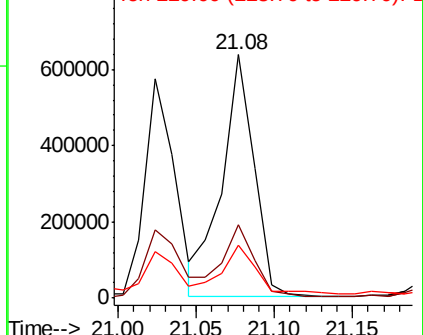
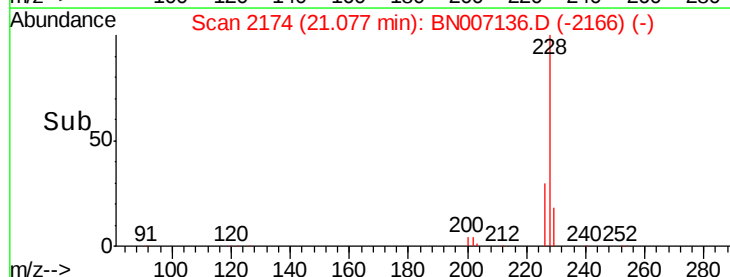


Abundance

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



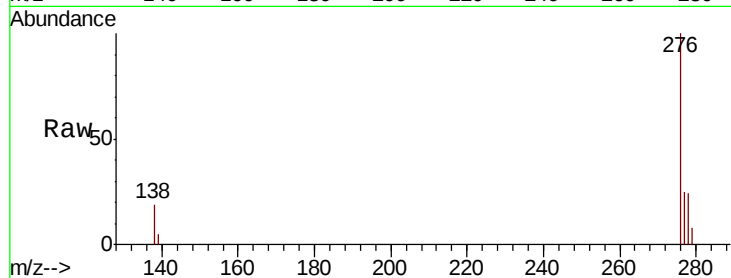


#31

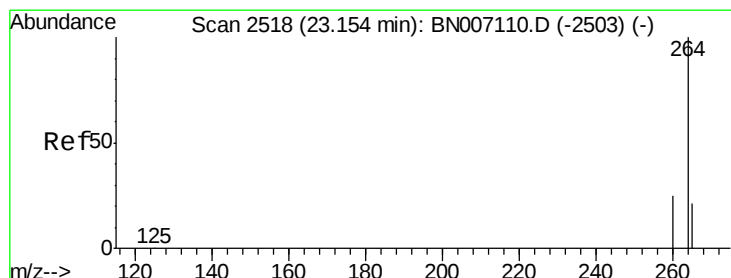
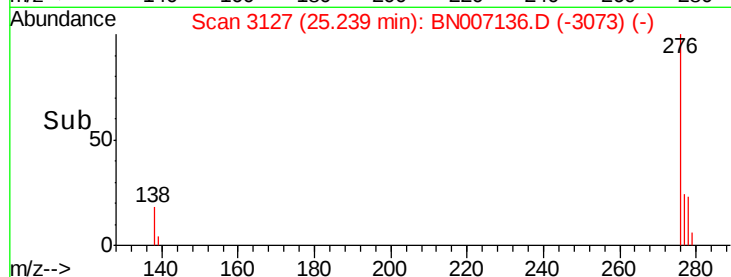
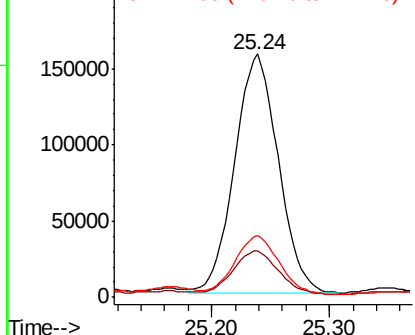
Indeno(1,2,3-cd)pyrene
Concen: 2.108 ng
RT: 25.24 min Scan# 3127
Delta R.T. -0.01 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Instrument :
BNA_N
ClientSampleId :

Tot Ion:276 Resp: 402512
Ion Ratio Lower Upper
276 100
138 18.7 16.0 24.0
277 24.9 19.9 29.9



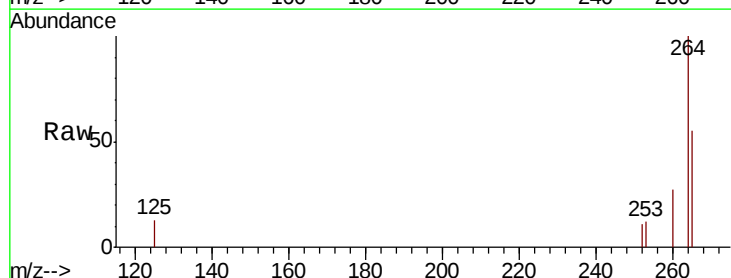
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



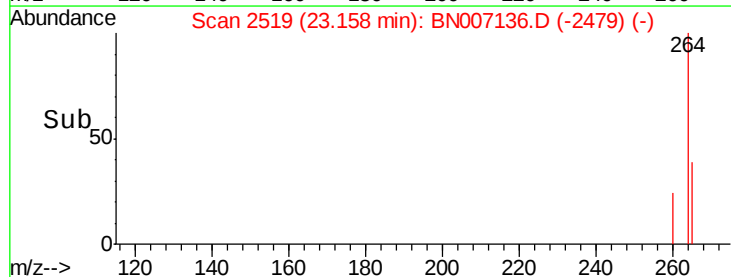
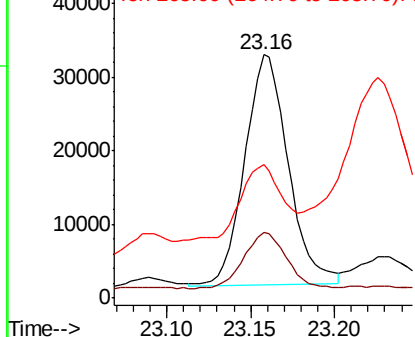
#32

Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007136.D
Acq: 13 Aug 2019 17:43

Tgt Ion:264 Resp: 56954
Ion Ratio Lower Upper
264 100
260 27.1 19.8 29.8
265 54.8 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: 4.094 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

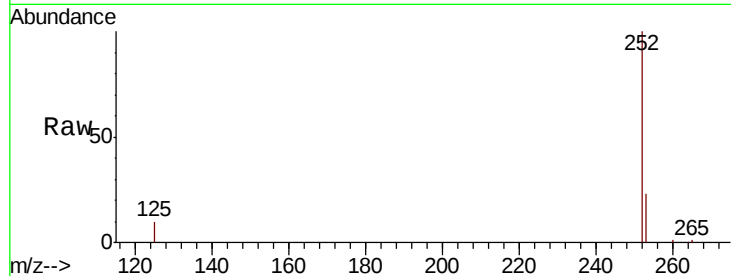
Tot Ion:252 Resp: 799495

Ion Ratio Lower Upper

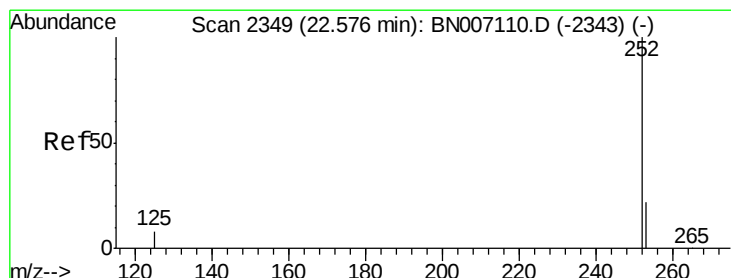
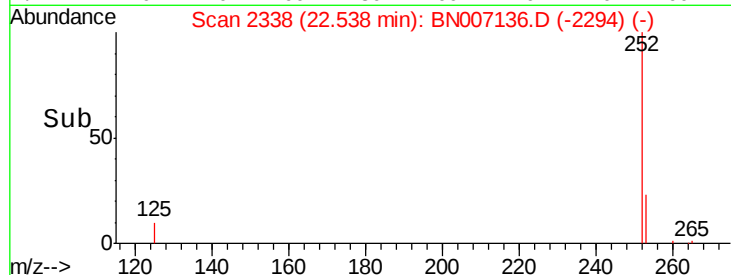
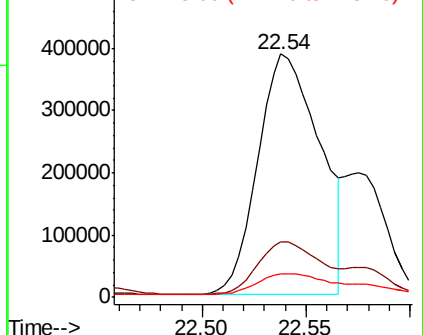
252 100

253 22.9 18.2 27.2

125 9.7 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: 4.145 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

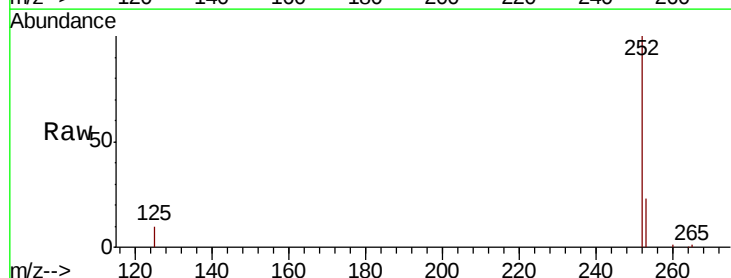
Tgt Ion:252 Resp: 799495

Ion Ratio Lower Upper

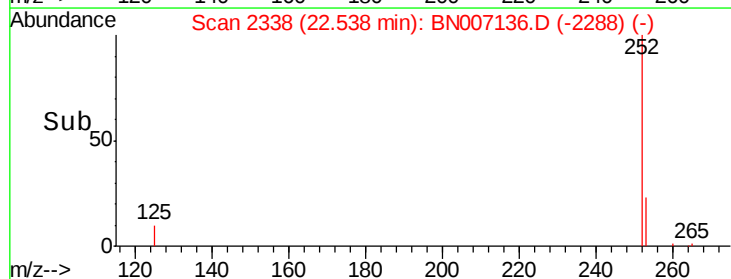
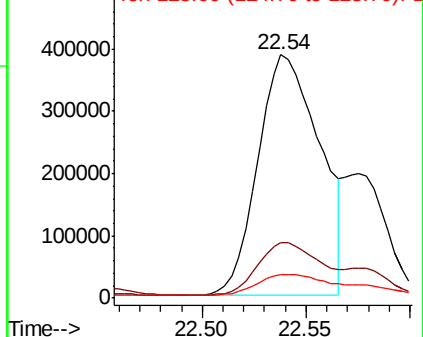
252 100

253 22.9 18.1 27.1

125 9.7 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: 3.670 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :

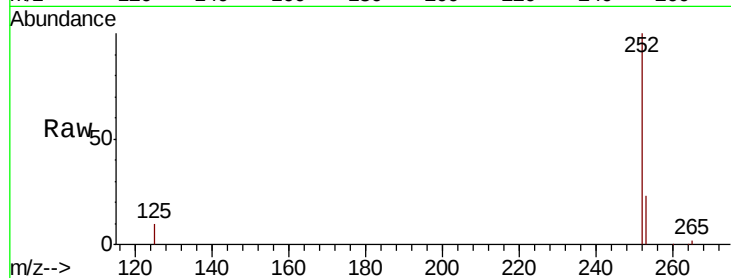
Tot Ion:252 Resp: 649834

Ion Ratio Lower Upper

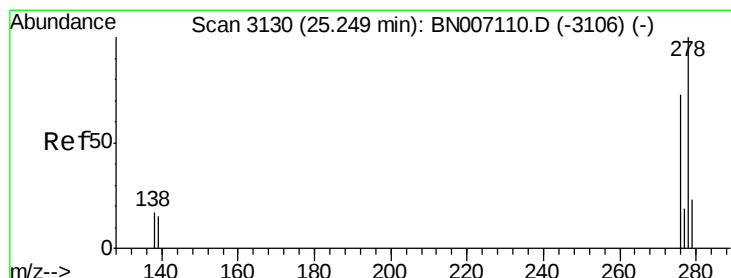
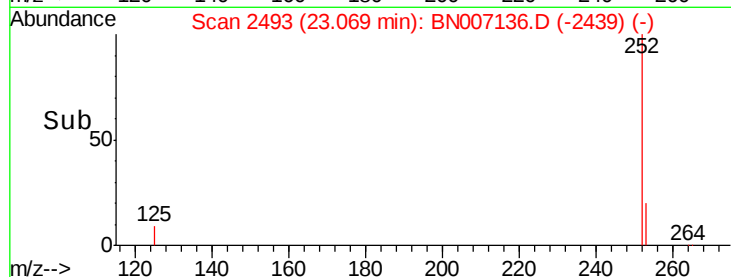
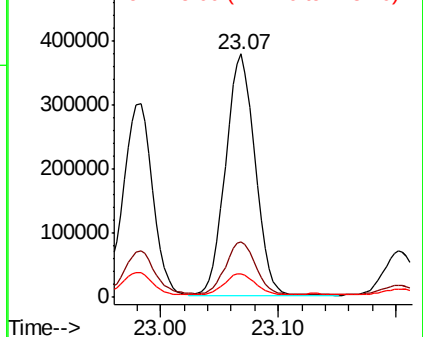
252 100

253 22.9 18.5 27.7

125 9.9 8.2 12.4



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



#36

Dibenzo(a,h)anthracene

Concen: 0.687 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

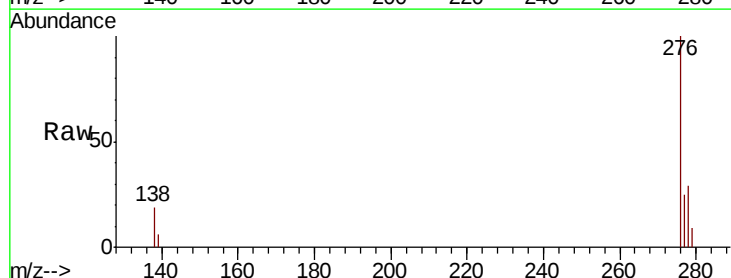
Tgt Ion:278 Resp: 121429

Ion Ratio Lower Upper

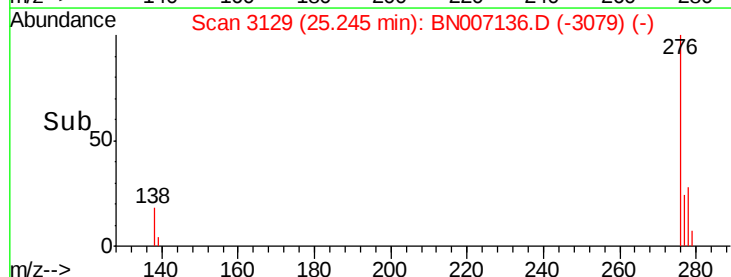
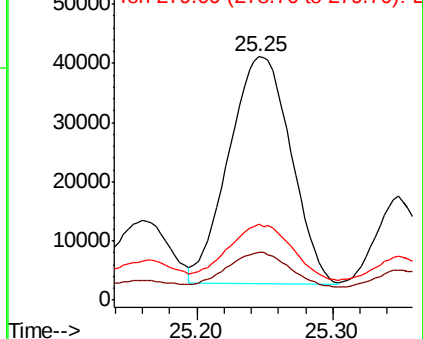
278 100

139 19.4 11.3 16.9#

279 31.0 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(a,h,i)perylene

Concen: 2.534 ng

RT: 25.87 min Scan# 3311

Delta R.T. -0.01 min

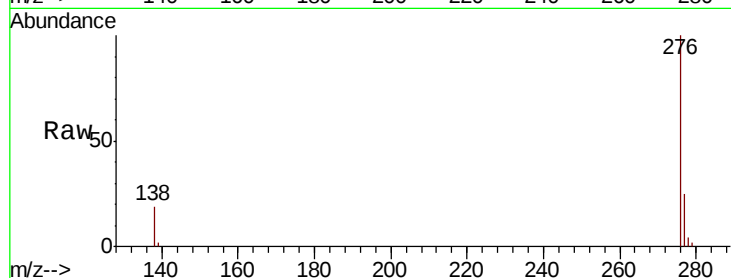
Lab File: BN007136.D

Acq: 13 Aug 2019 17:43

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 460422

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.8

138 19.0 14.6 22.0

