

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007215.D
 Acq On : 16 Aug 2019 02:21
 Operator : HP/JU
 Sample : K4282-10
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:08:19 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	7087	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	27039	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15257	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	35488	0.40	ng	0.00
26) Chrysene-d12	21.03	240	35147	0.40	ng	-0.02
32) Perylene-d12	23.15	264	38474	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5004	0.29	ng	0.00
4) Phenol-d6	6.61	99	6725	0.32	ng	0.00
7) Nitrobenzene-d5	8.55	82	4851	0.22	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	9559	0.19	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1161	0.14	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1238	0.06	ng	0.00
24) Fluoranthene-d10	18.86	212	16864	0.13	ng	0.00
28) Terphenyl-d14	19.48	244	11631	0.12	ng	-0.01

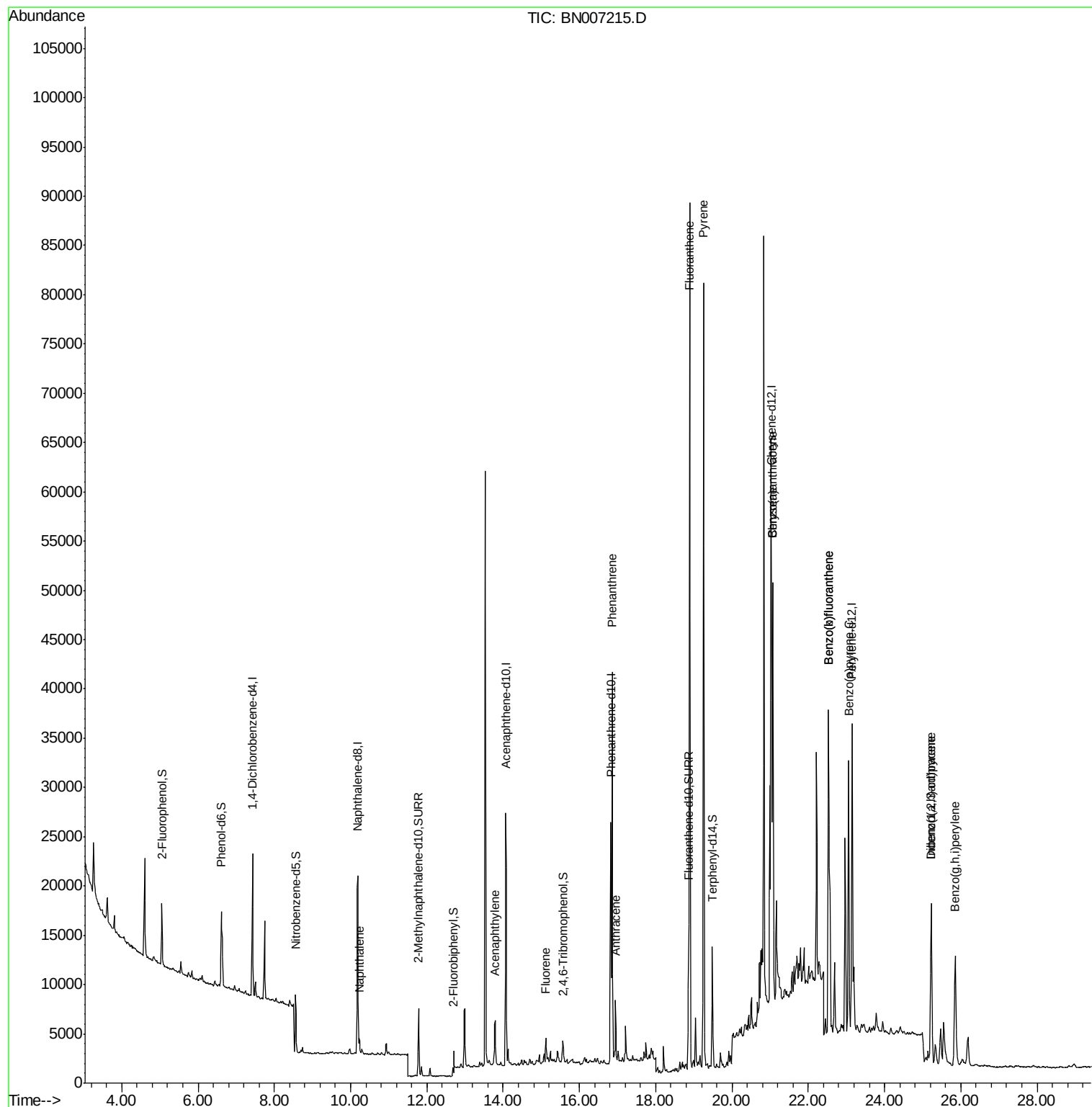
Target Compounds				Qvalue		
8) Naphthalene	10.23	128	2153	0.028	ng	# 85
15) Acenaphthylene	13.79	152	7454	0.093	ng	99
17) Fluorene	15.12	166	1973	0.026	ng	87
22) Phenanthrene	16.86	178	44131	0.415	ng	100
23) Anthracene	16.95	178	5689	0.059	ng	# 87
25) Fluoranthene	18.89	202	79865	0.587	ng	100
27) Pyrene	19.25	202	72676	0.590	ng	# 96
29) Benzo(a)anthracene	21.07	228	40274	0.313	ng	91
30) Chrysene	21.07	228	40156	0.322	ng	94
31) Indeno(1,2,3-cd)pyrene	25.23	276	24041	0.175	ng	99
33) Benzo(b)fluoranthene	22.53	252	54704	0.415	ng	# 95
34) Benzo(k)fluoranthene	22.53	252	54704	0.420	ng	# 95
35) Benzo(a)pyrene	23.06	252	37215	0.311	ng	# 95
36) Dibenzo(a,h)anthracene	25.23	278	6793	0.057	ng	# 65
37) Benzo(a,h,i)perylene	25.85	276	22293	0.182	ng	# 93

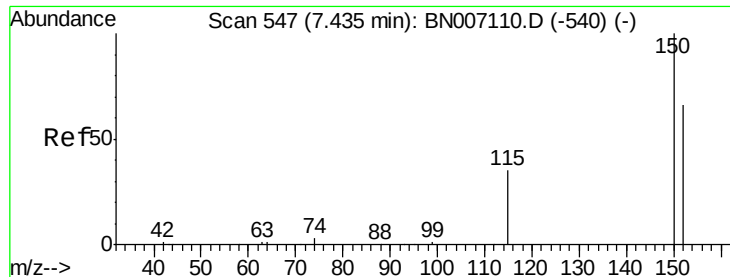
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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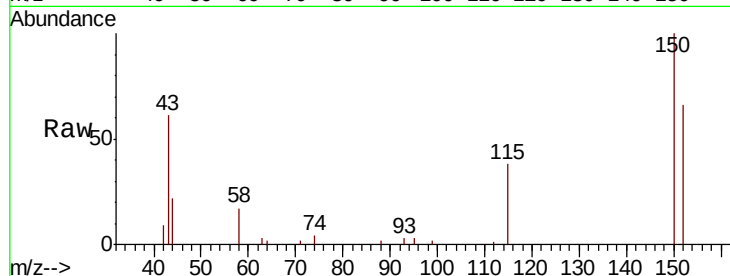


#1

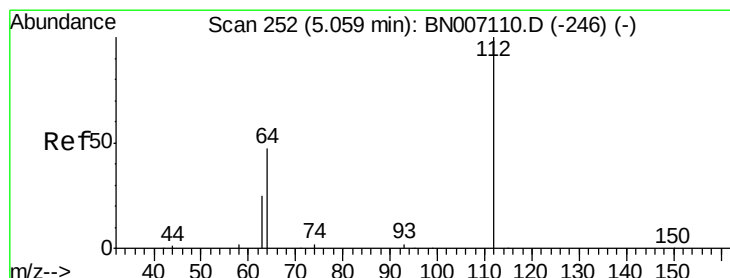
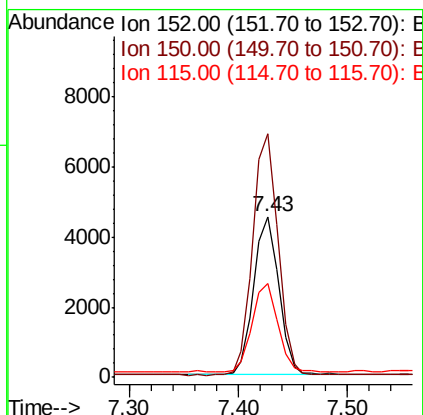
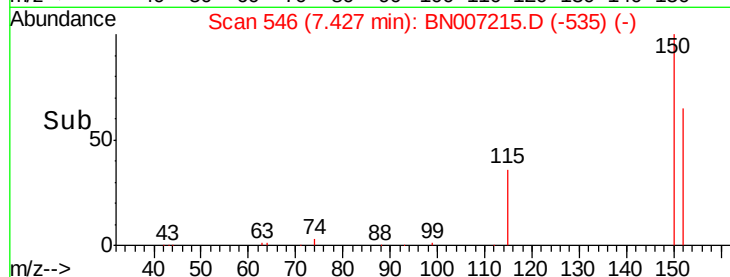
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7087
Ion Ratio Lower Upper
152 100
150 151.3 121.7 182.5
115 58.2 46.2 69.4



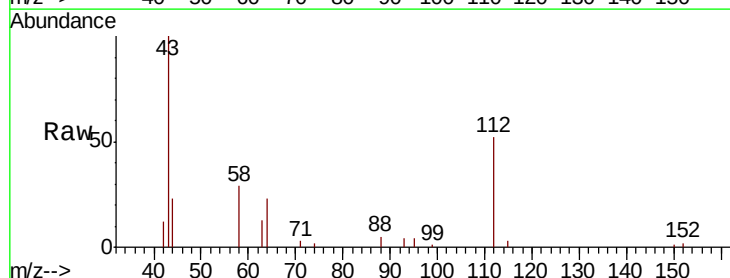
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



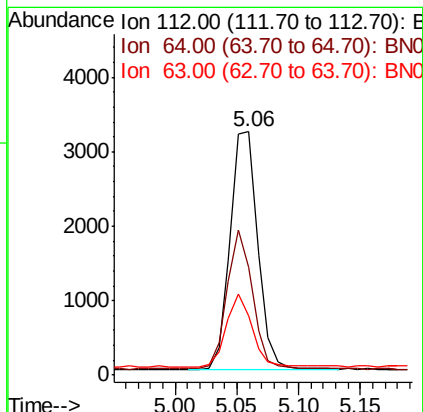
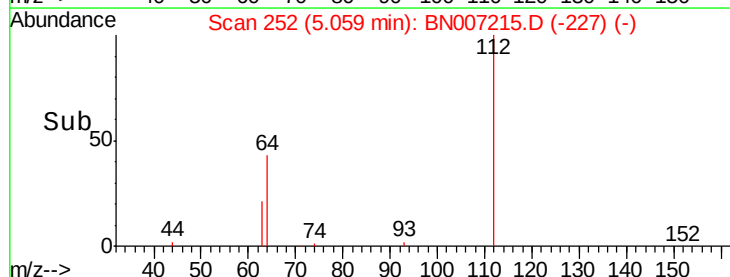
#3

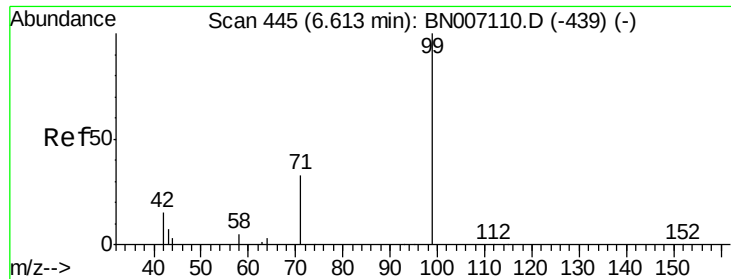
2-Fluorophenol
Concen: 0.294 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Tgt Ion:112 Resp: 5004
Ion Ratio Lower Upper
112 100
64 54.0 42.6 63.8
63 27.8 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: 0.319 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

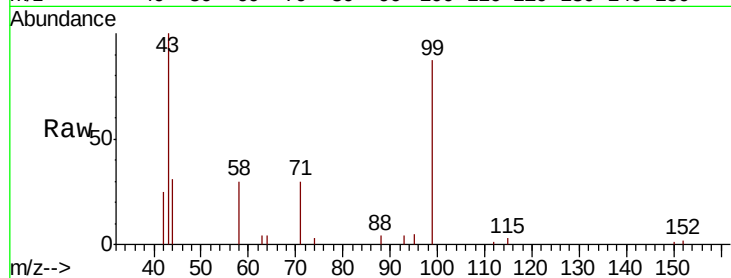
Tot Ion: 99 Resp: 6725

Ion Ratio Lower Upper

99 100

42 22.2 15.8 23.6

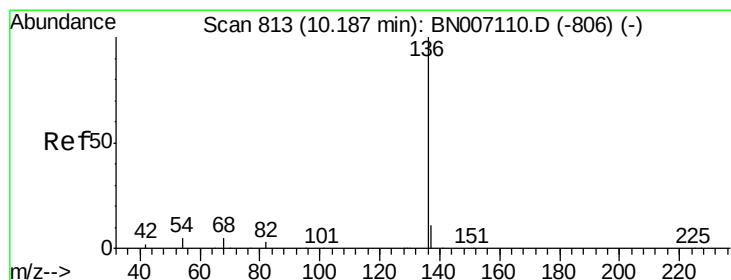
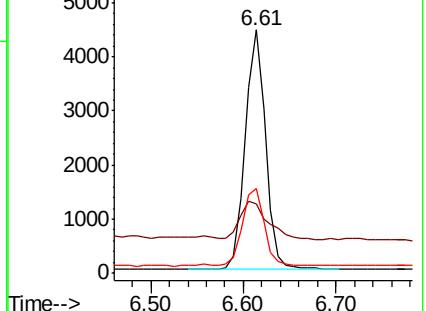
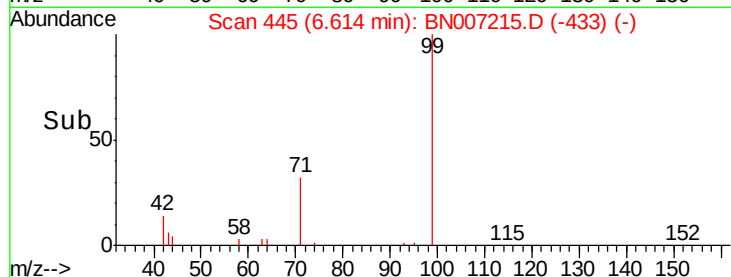
71 34.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007215.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007215.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007215.D (-433) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Tgt Ion: 136 Resp: 27039

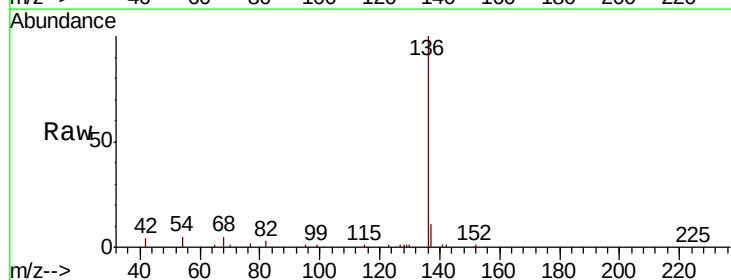
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.5 6.6 9.8#

68 4.5 6.0 9.0#

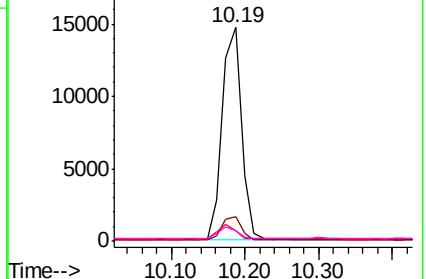
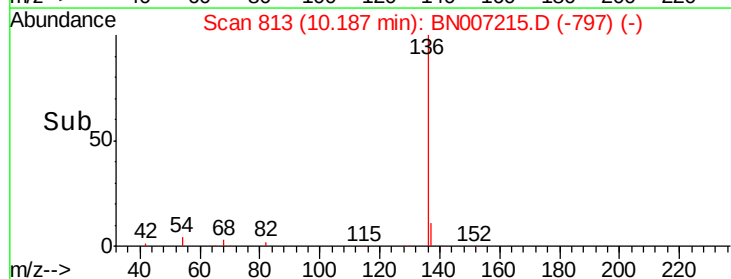


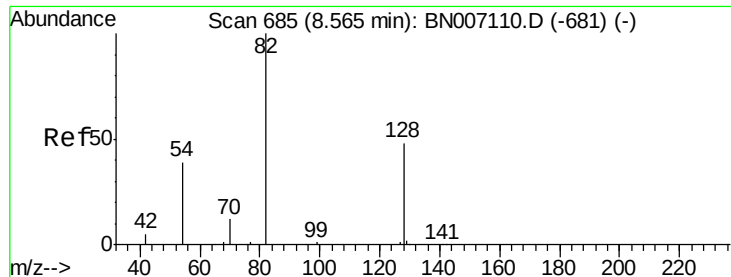
Abundance Ion 136.00 (135.70 to 136.70): BN007215.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007215.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007215.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007215.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.223 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

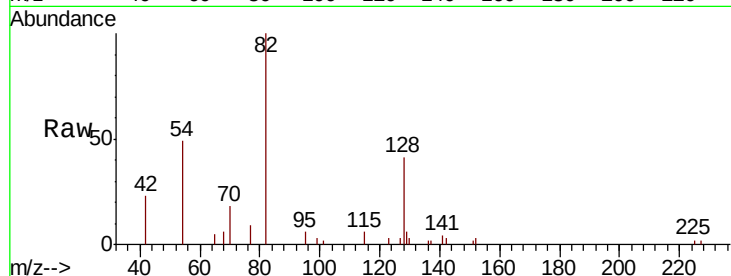
Tot Ion: 82 Resp: 4851

Ion Ratio Lower Upper

82 100

128 41.0 34.6 51.8

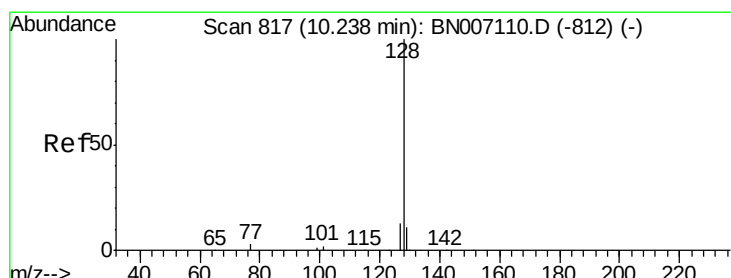
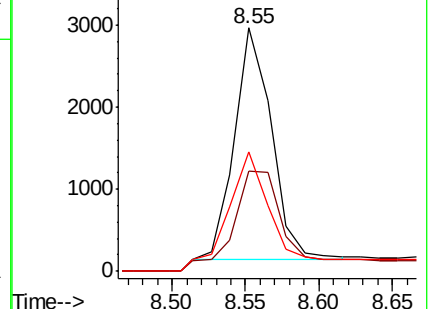
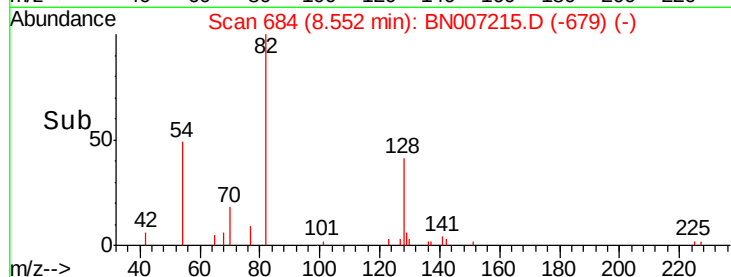
54 49.0 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007215.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007215.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007215.D (-679) (-)



#8

Naphthalene

Concen: 0.028 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

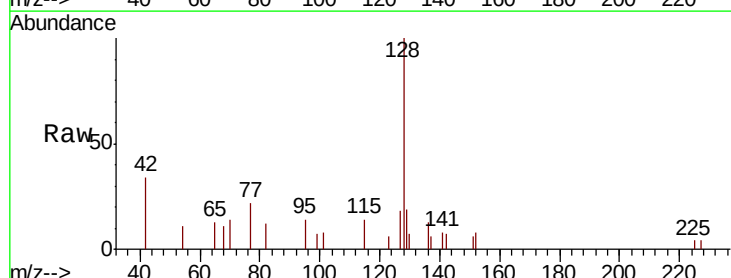
Tgt Ion: 128 Resp: 2153

Ion Ratio Lower Upper

128 100

129 19.2 9.4 14.2#

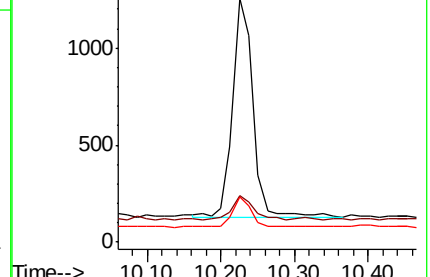
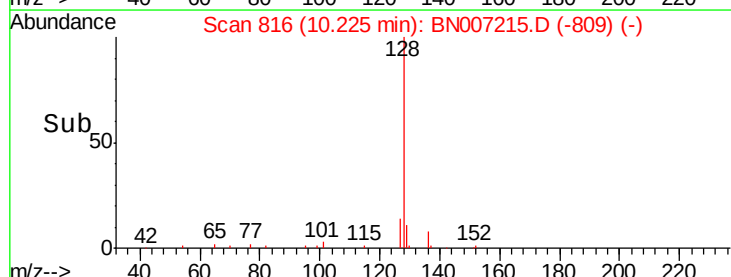
127 18.5 11.0 16.6#

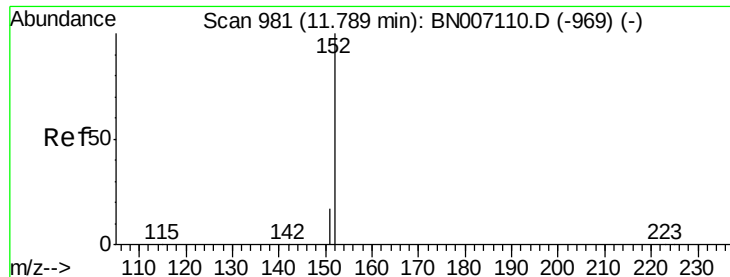


Abundance Ion 128.00 (127.70 to 128.70): BN007215.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007215.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007215.D (-809) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.190 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

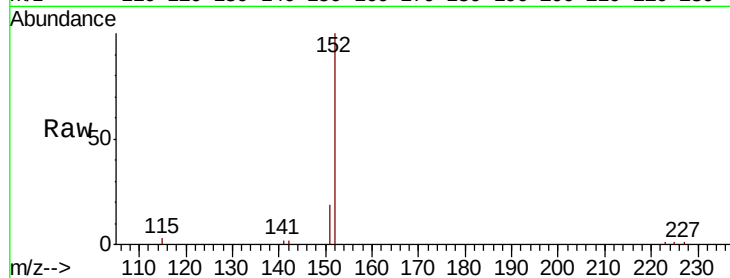
ClientSampleId :

Tot Ion:152 Resp: 9559

Ion Ratio Lower Upper

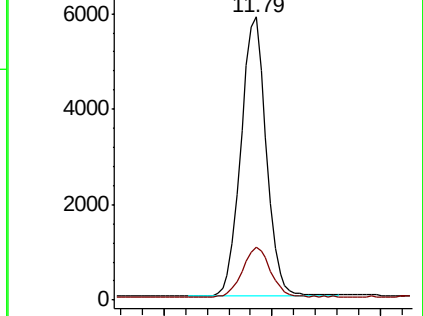
152 100

151 19.6 15.5 23.3

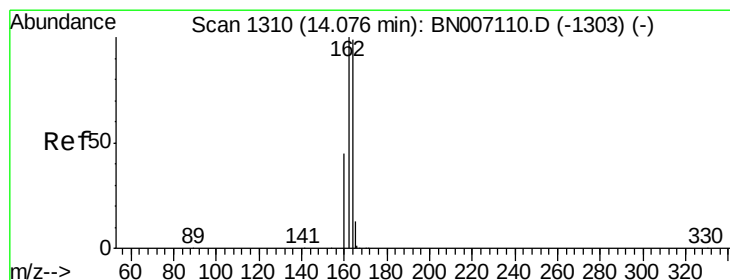
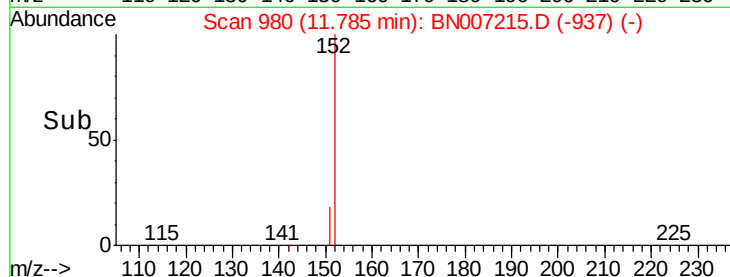


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

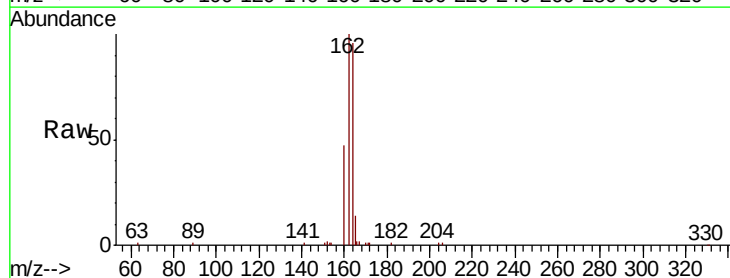
Tgt Ion:164 Resp: 15257

Ion Ratio Lower Upper

164 100

162 104.0 82.2 123.4

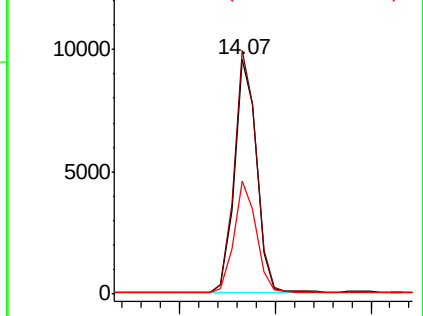
160 48.5 38.3 57.5



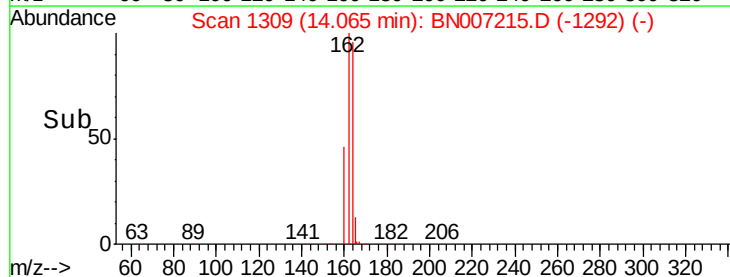
Abundance Ion 164.00 (163.70 to 164.70): E

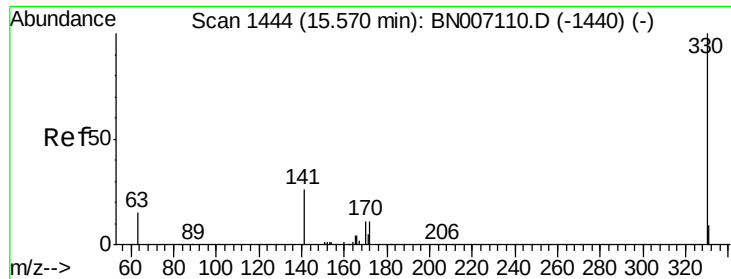
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->

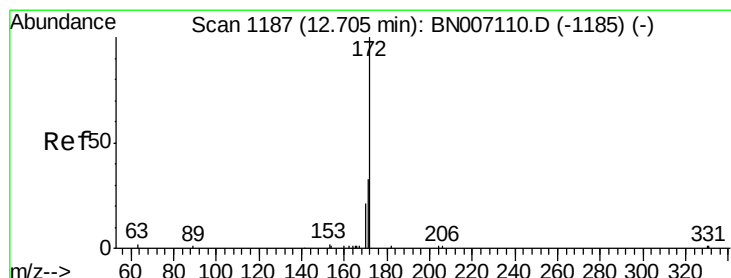
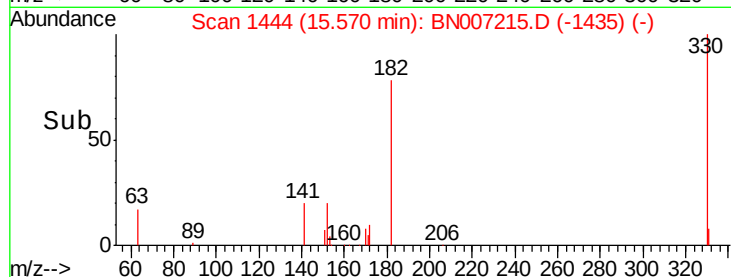
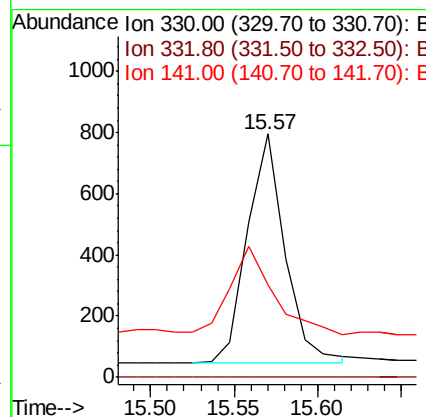
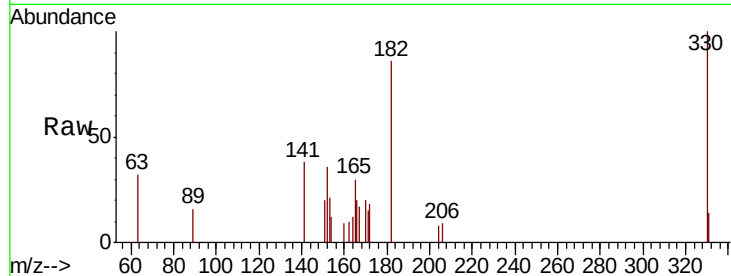




#13
 2,4,6-Tribromophenol
 Concen: 0.141 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

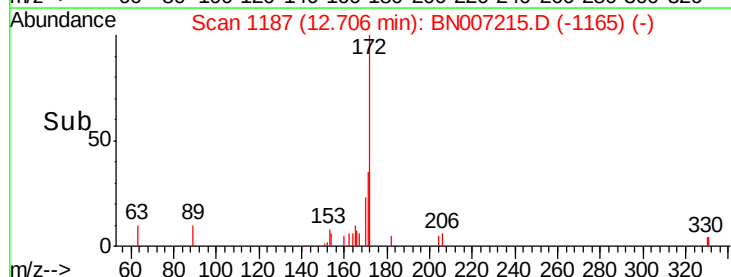
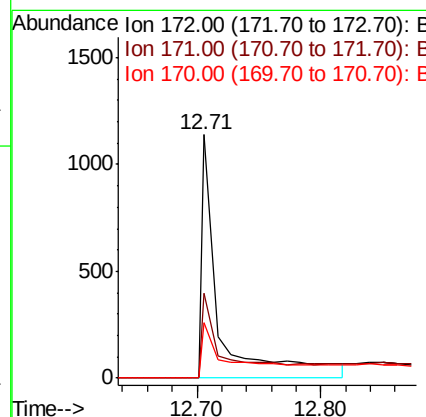
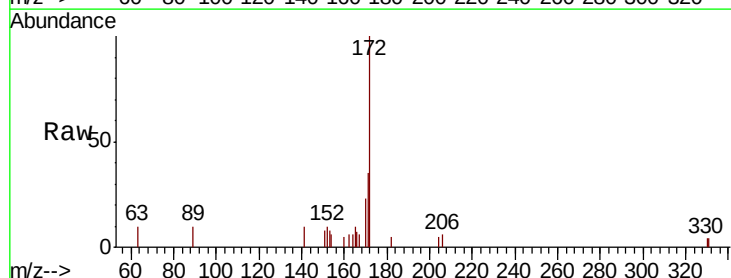
Instrument :
 BNA_N
 ClientSampled :

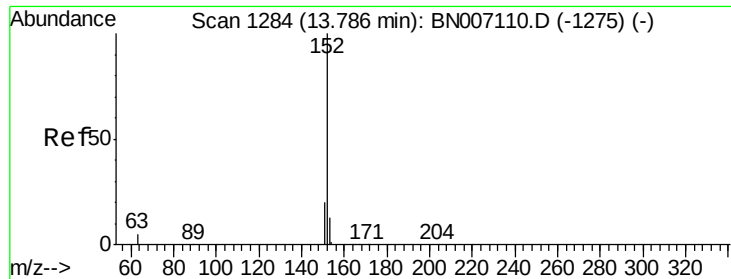
Tot Ion:330 Resp: 1161
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 45.3 33.6 50.4



#14
 2-Fluorobiphenyl
 Concen: 0.056 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

Tgt Ion:172 Resp: 1238
 Ion Ratio Lower Upper
 172 100
 171 34.7 26.3 39.5
 170 22.6 17.0 25.4





#15

Acenaphthylene

Concen: 0.093 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

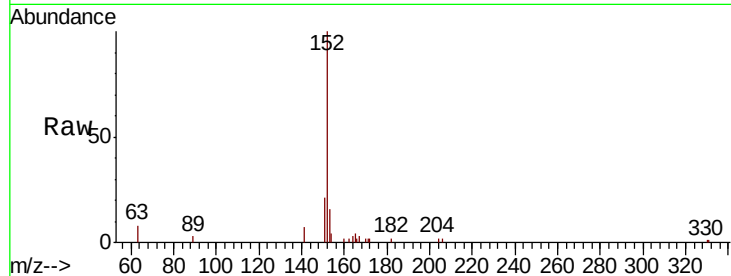
Tot Ion:152 Resp: 7454

Ion Ratio Lower Upper

152 100

151 19.2 15.8 23.6

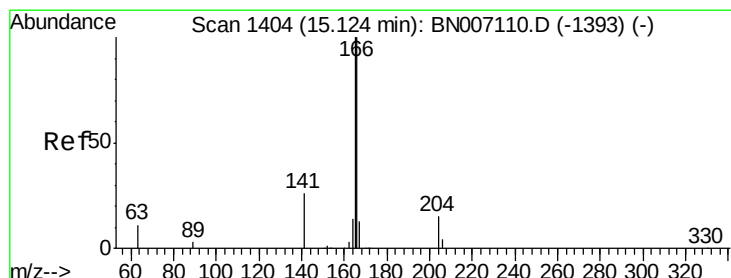
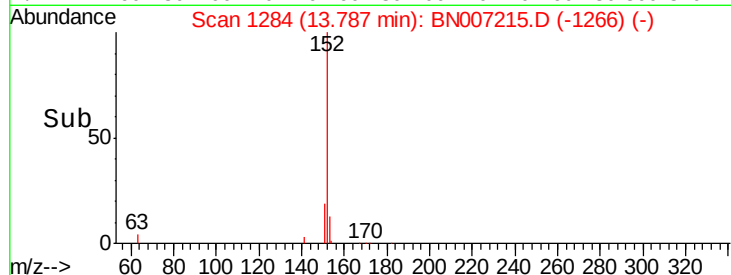
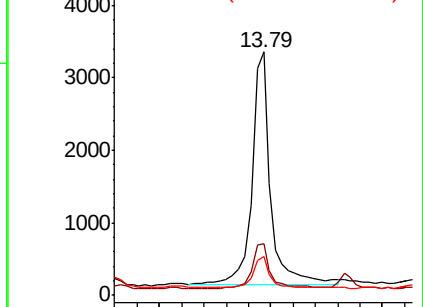
153 12.5 10.4 15.6



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



#17

Fluorene

Concen: 0.026 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

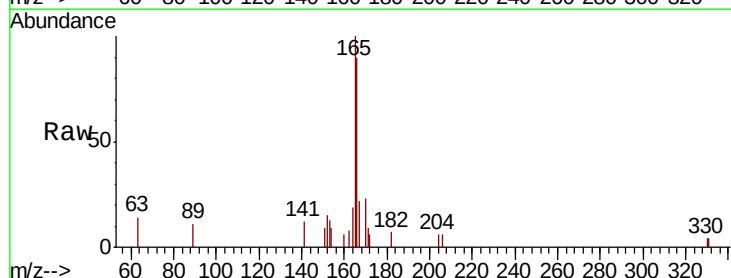
Tgt Ion:166 Resp: 1973

Ion Ratio Lower Upper

166 100

165 111.6 77.9 116.9

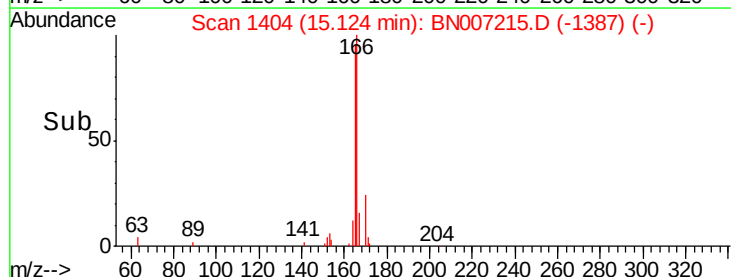
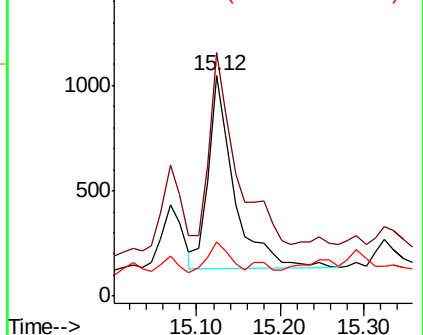
167 13.3 10.9 16.3

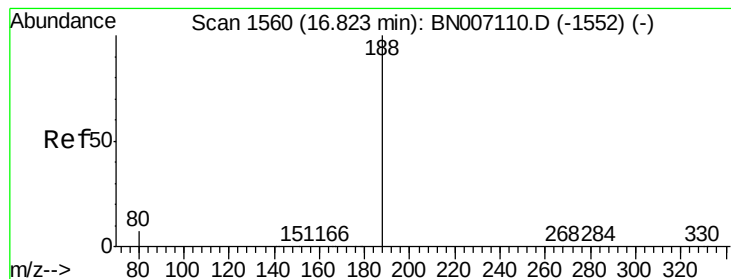


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

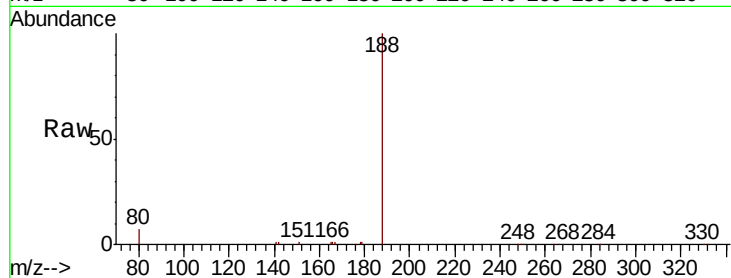
Tot Ion:188 Resp: 35488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

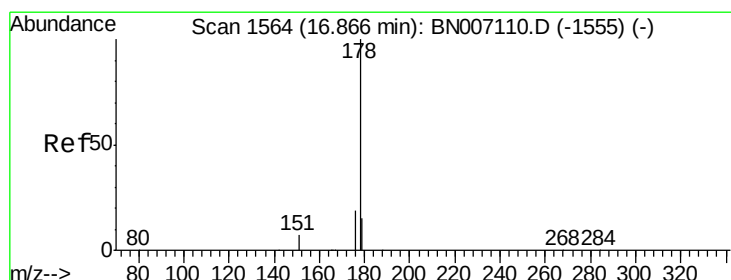
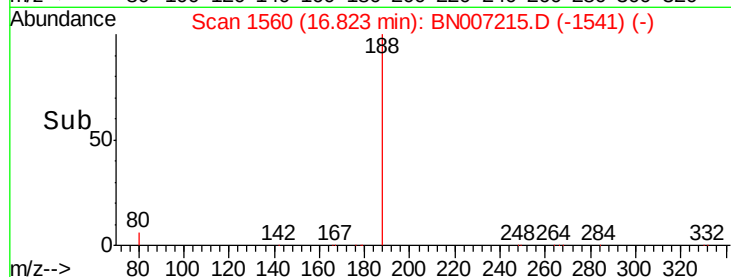
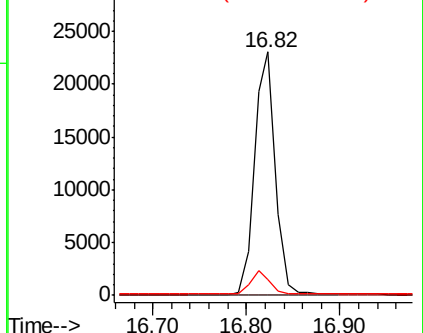
80 6.6 7.8 11.6#



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: 0.415 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

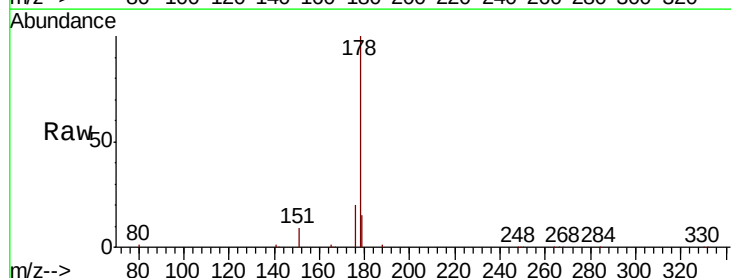
Tgt Ion:178 Resp: 44131

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

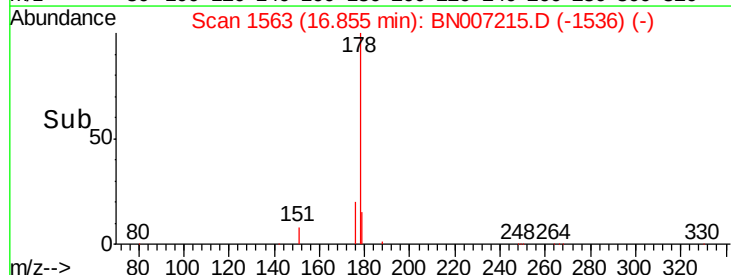
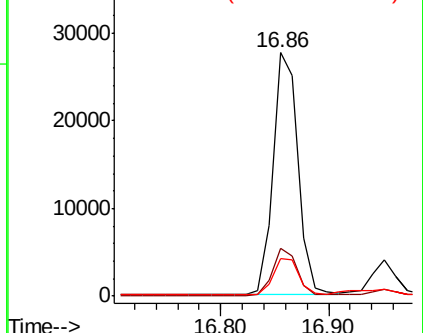
179 15.6 12.3 18.5

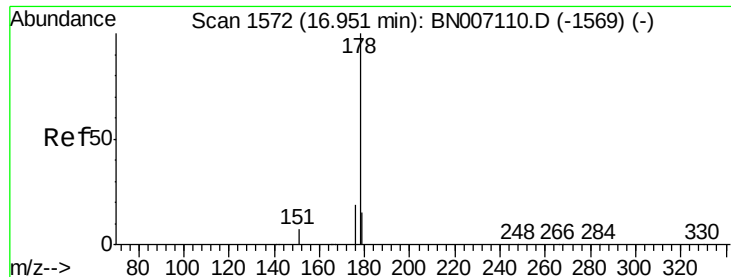


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.059 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

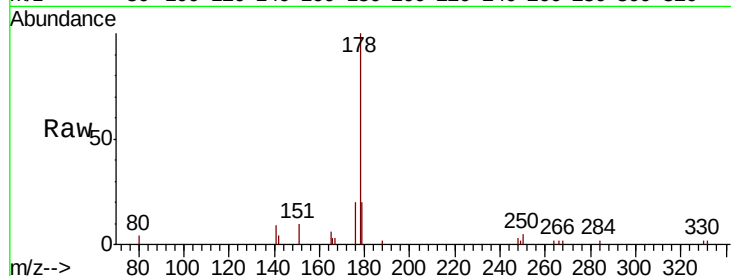
Tot Ion:178 Resp: 5689

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

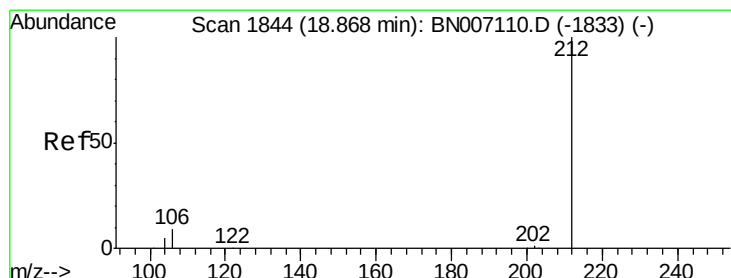
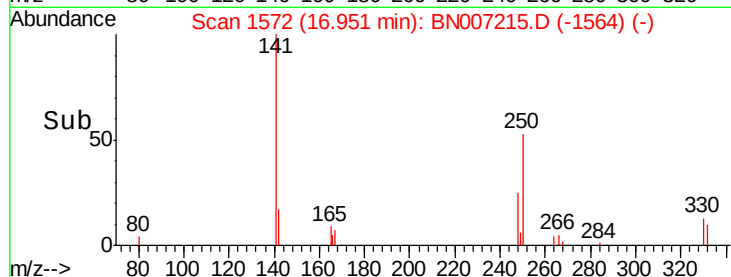
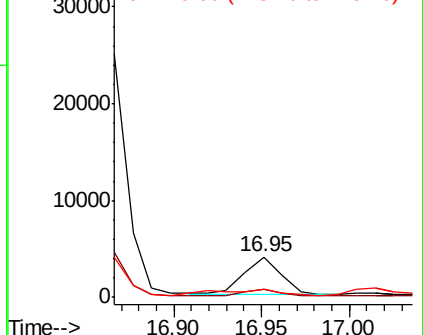
179 26.8 12.5 18.7#



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: 0.134 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

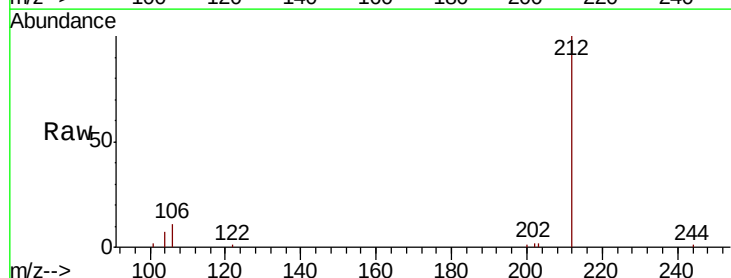
Tgt Ion:212 Resp: 16864

Ion Ratio Lower Upper

212 100

106 10.9 8.2 12.2

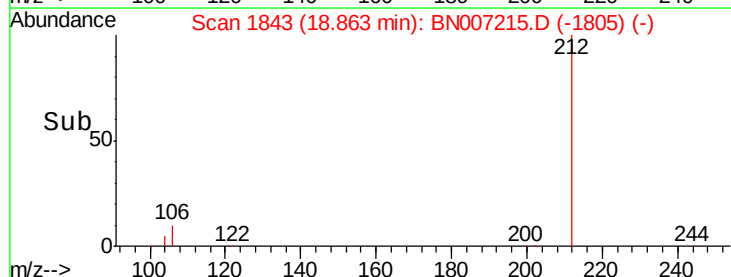
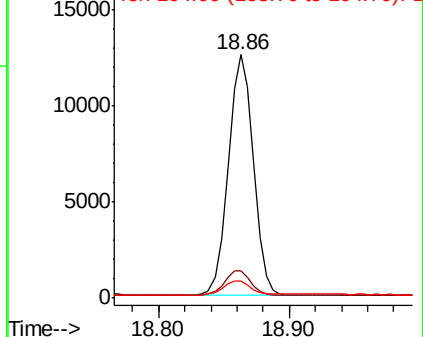
104 6.3 4.5 6.7

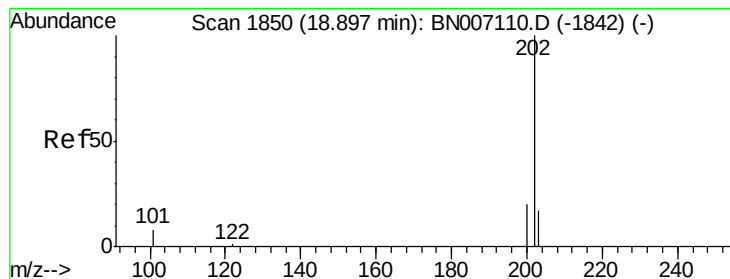


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.587 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :

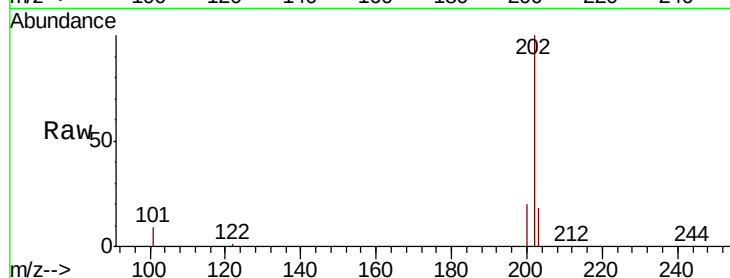
Tot Ion:202 Resp: 79865

Ion Ratio Lower Upper

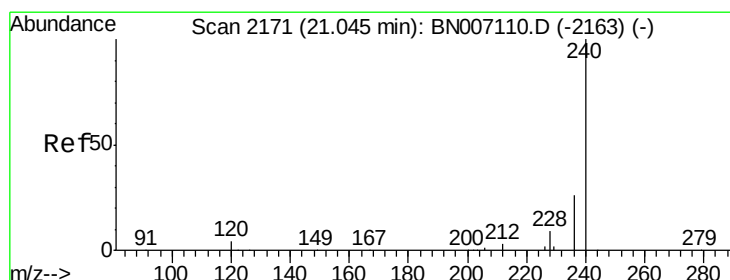
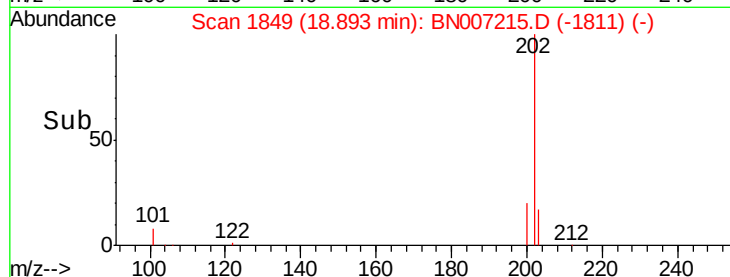
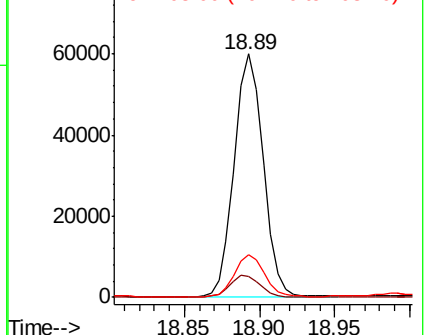
202 100

101 8.9 7.0 10.4

203 17.4 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: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

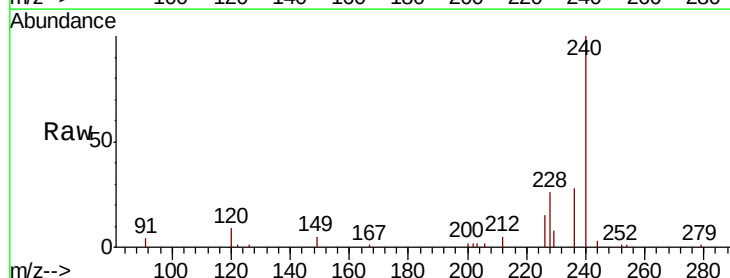
Tgt Ion:240 Resp: 35147

Ion Ratio Lower Upper

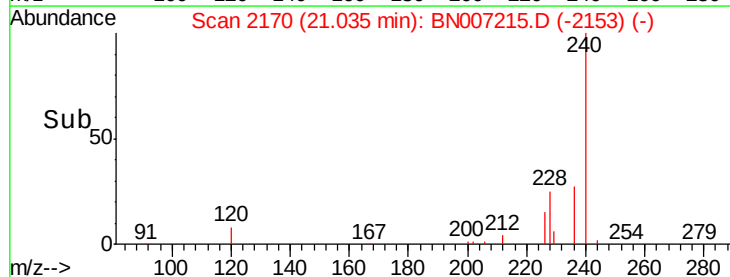
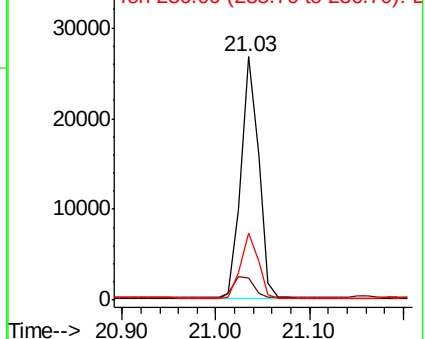
240 100

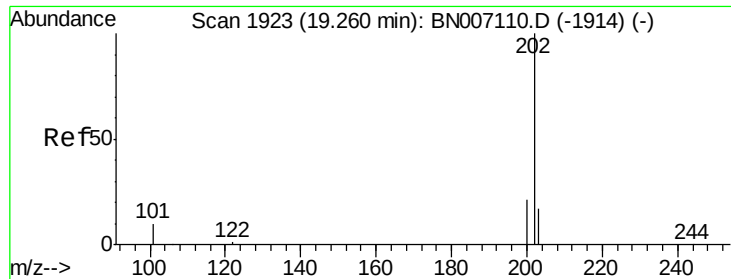
120 9.1 4.0 6.0#

236 27.7 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

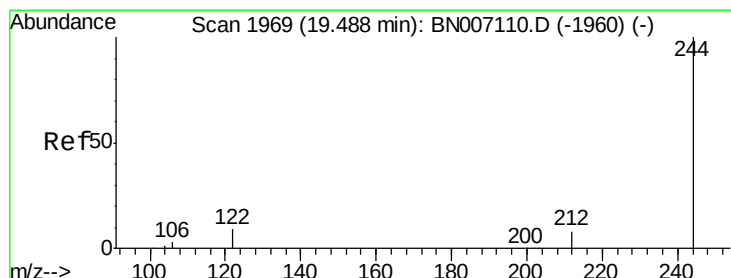
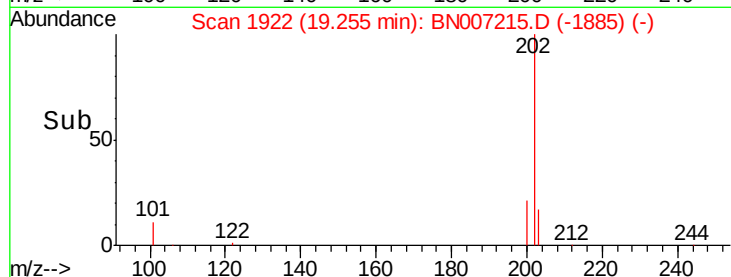
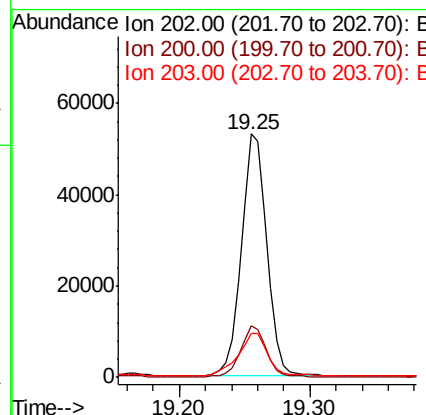
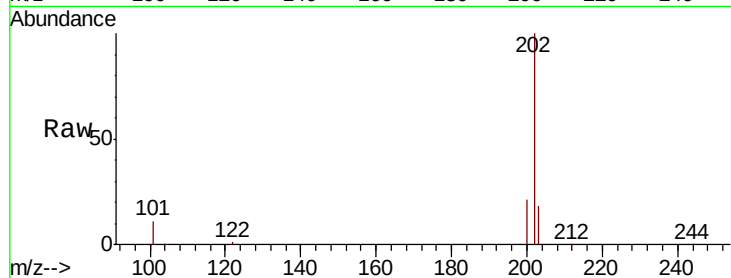




#27
 Pvrene
 Concen: 0.590 ng
 RT: 19.25 min Scan# 1922
 Delta R.T. -0.01 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

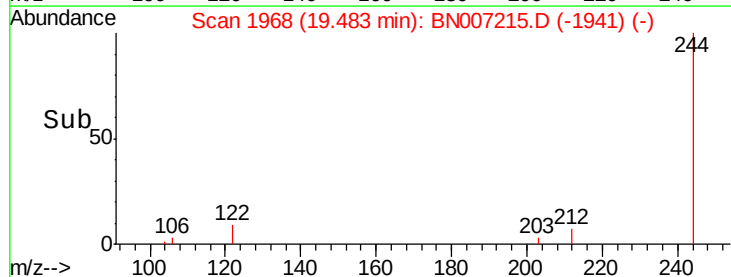
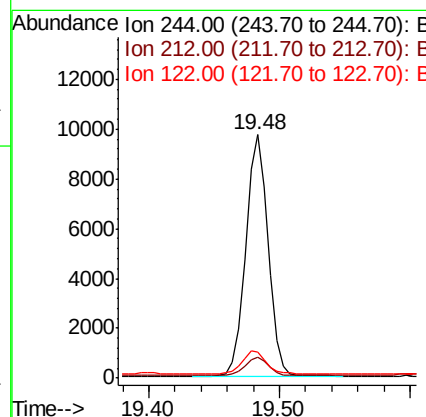
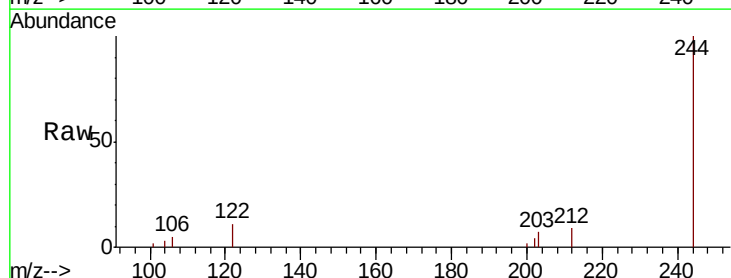
Instrument :
 BNA_N
 ClientSampleId :

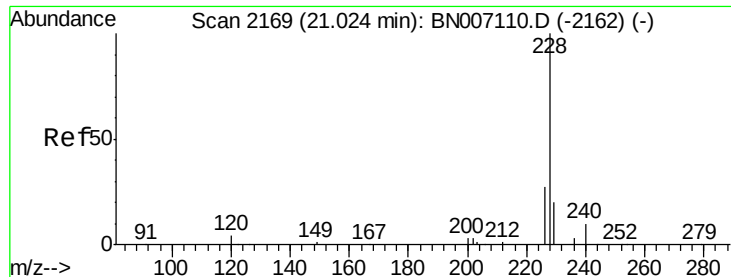
Tot Ion:202 Resp: 72676
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.6 24.8
 203 21.3 14.0 21.0#



#28
 Terphenyl-d14
 Concen: 0.121 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

Tgt Ion:244 Resp: 11631
 Ion Ratio Lower Upper
 244 100
 212 8.6 6.2 9.2
 122 10.7 7.4 11.2

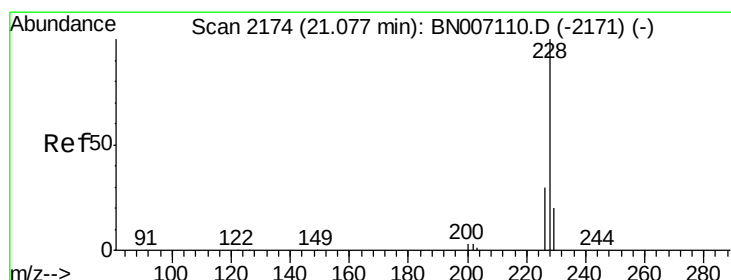
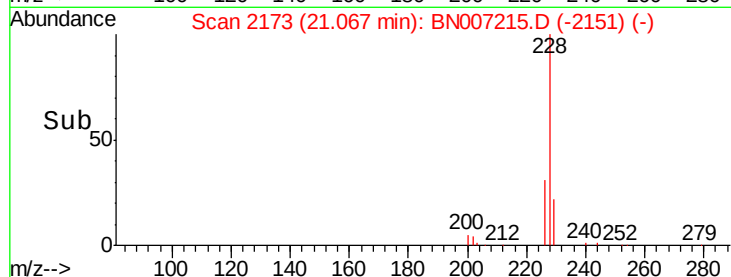
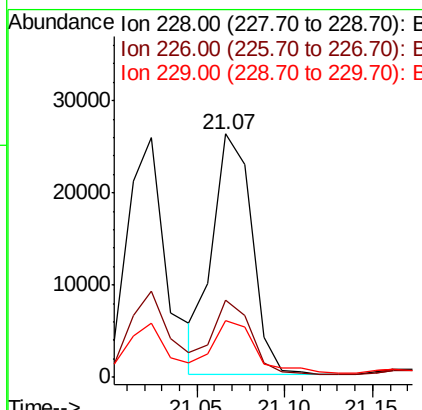
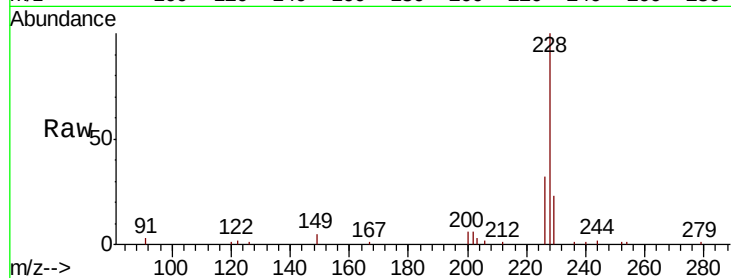




#29
Benzo(a)anthracene
Concen: 0.313 ng
RT: 21.07 min Scan# 2173
Delta R.T. 0.03 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

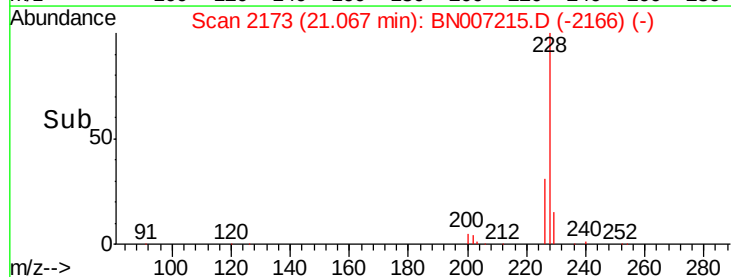
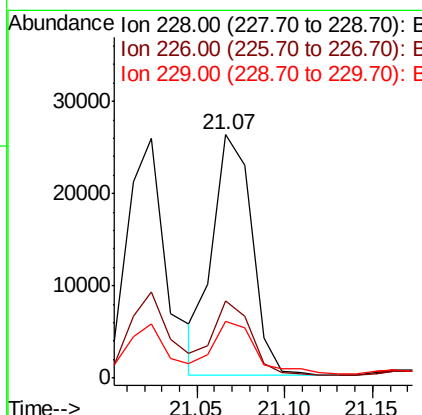
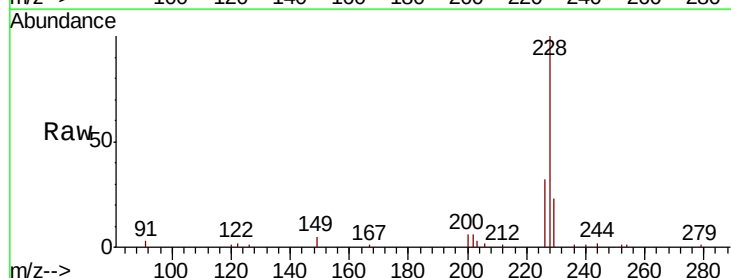
Instrument :
BNA_N
ClientSampleId :

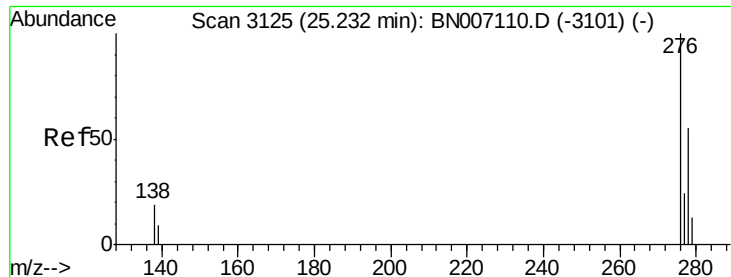
Tot Ion:228 Resp: 40274
Ion Ratio Lower Upper
228 100
226 31.7 21.8 32.6
229 23.4 15.6 23.4



#30
Chrysene
Concen: 0.322 ng
RT: 21.07 min Scan# 2173
Delta R.T. -0.02 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Tgt Ion:228 Resp: 40156
Ion Ratio Lower Upper
228 100
226 31.7 23.8 35.6
229 23.4 15.7 23.5

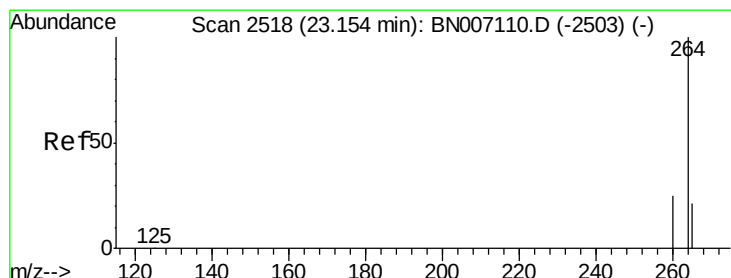
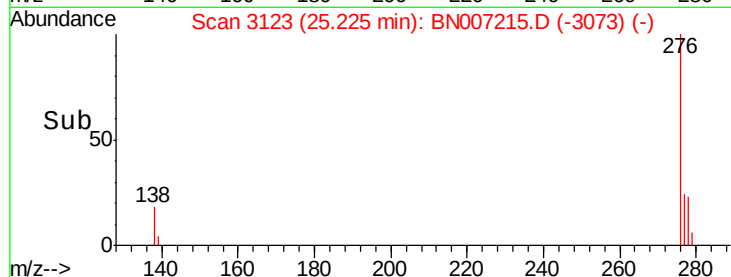
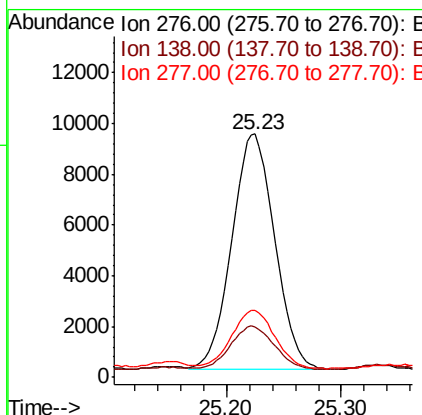
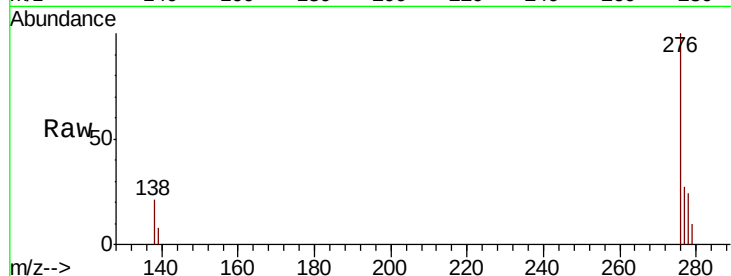




#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.175 ng
 RT: 25.23 min Scan# 3123
 Delta R.T. -0.03 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

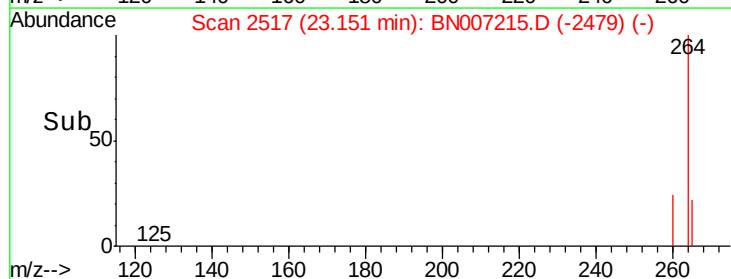
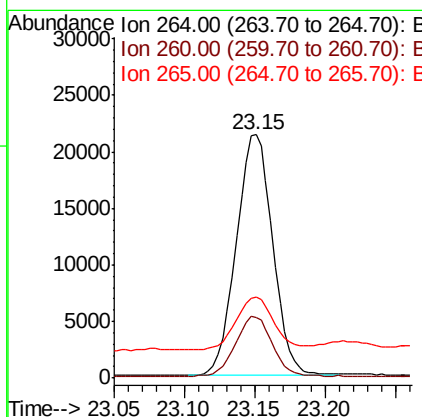
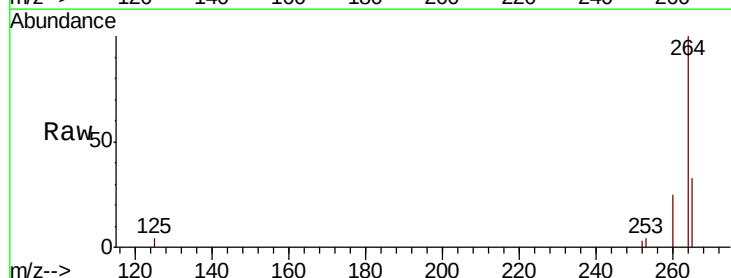
Instrument :
 BNA_N
 ClientSampleId :

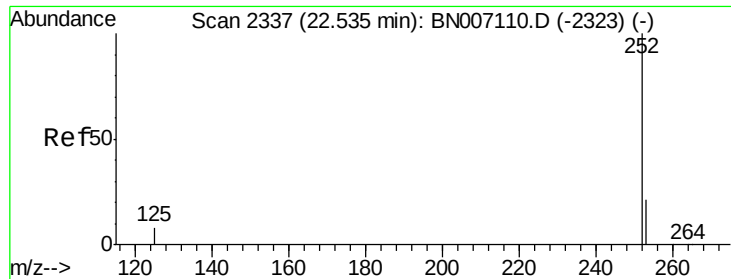
Tot Ion:276 Resp: 24041
 Ion Ratio Lower Upper
 276 100
 138 19.1 16.0 24.0
 277 25.1 19.9 29.9



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BN007215.D
 Acq: 16 Aug 2019 02:21

Tgt Ion:264 Resp: 38474
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.8 29.8
 265 33.2 26.2 39.4

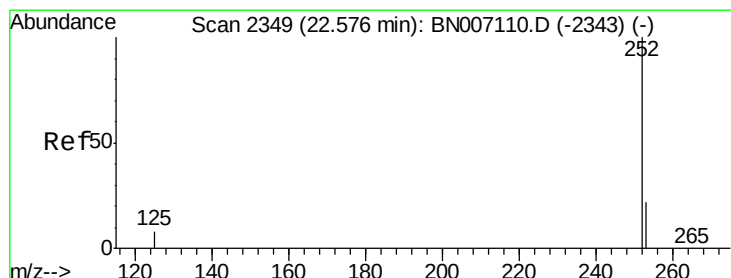
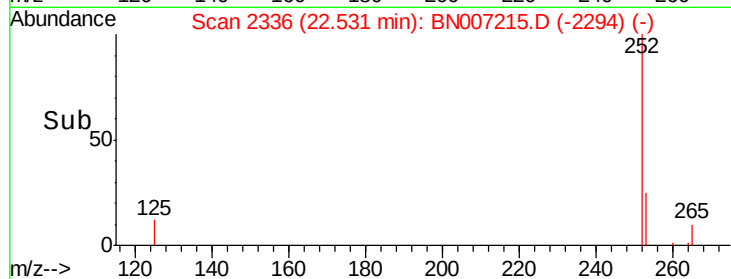
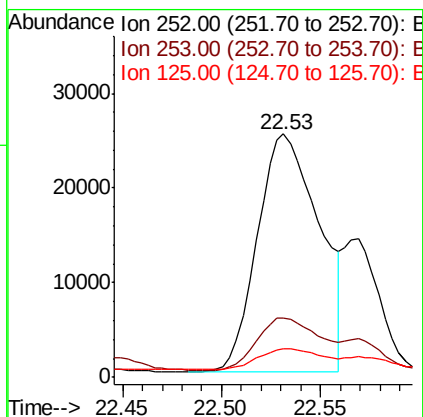
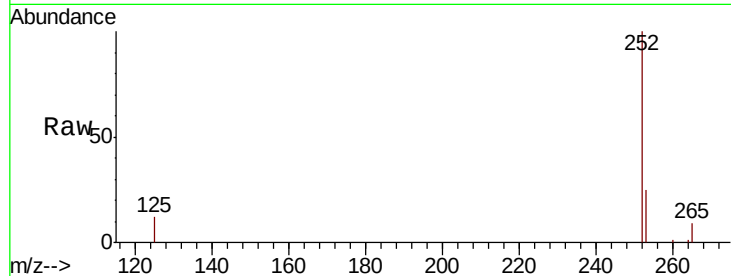




#33
Benzo(b)fluoranthene
Concen: 0.415 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.02 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

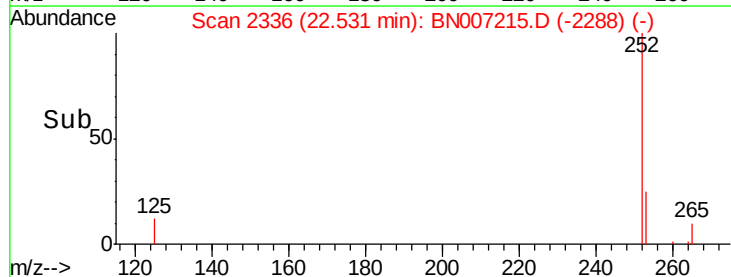
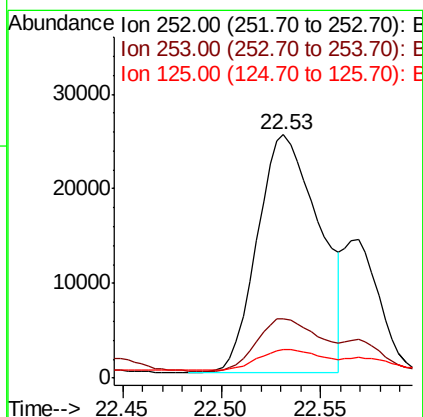
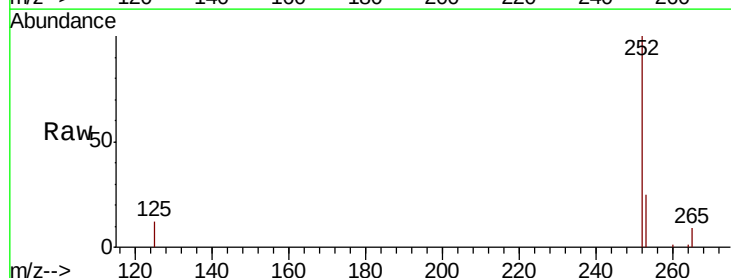
Instrument :
BNA_N
ClientSampleId :

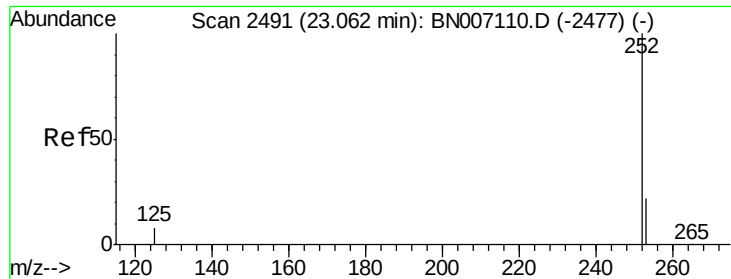
Tot Ion:252 Resp: 54704
Ion Ratio Lower Upper
252 100
253 24.6 18.2 27.2
125 11.8 7.4 11.0#



#34
Benzo(k)fluoranthene
Concen: 0.420 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.06 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Tgt Ion:252 Resp: 54704
Ion Ratio Lower Upper
252 100
253 24.6 18.1 27.1
125 11.8 7.4 11.0#

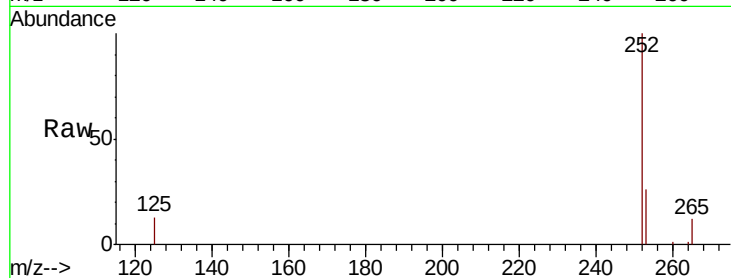




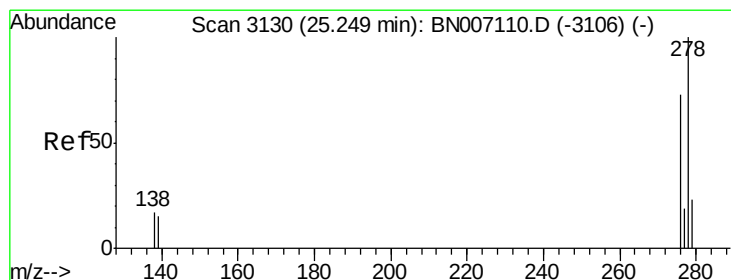
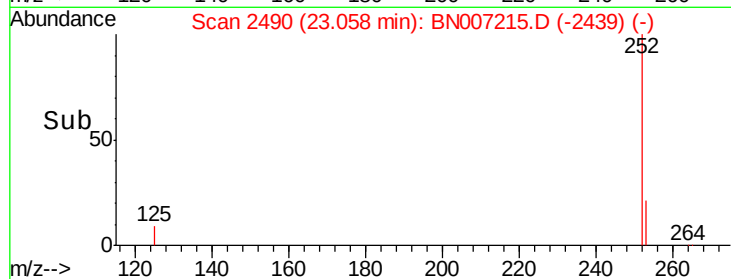
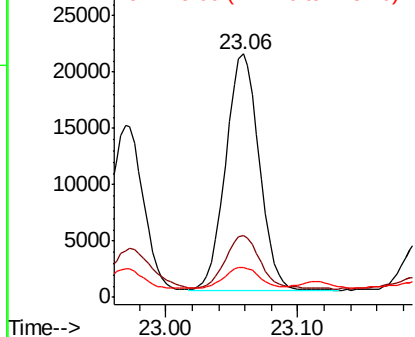
#35
Benzo(a)pyrene
Concen: 0.311 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 37215
Ion Ratio Lower Upper
252 100
253 25.6 18.5 27.7
125 12.5 8.2 12.4#

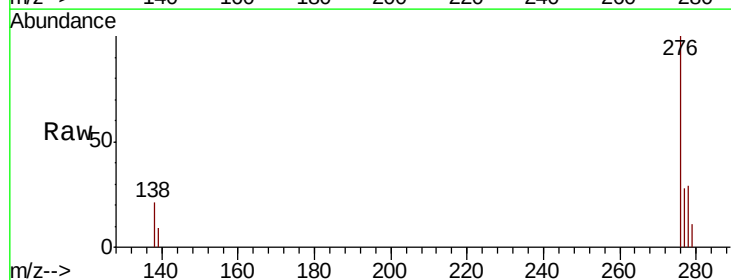


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

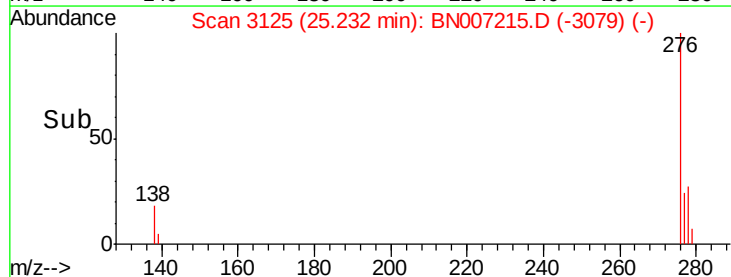
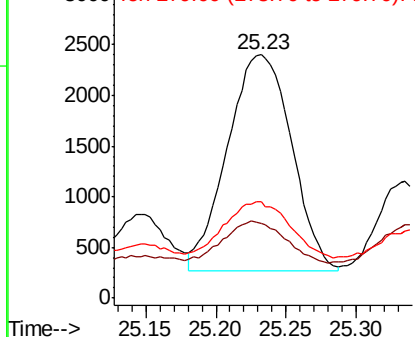


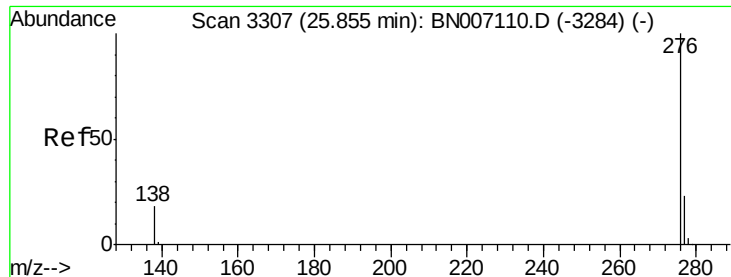
#36
Dibenzo(a,h)anthracene
Concen: 0.057 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.04 min
Lab File: BN007215.D
Acq: 16 Aug 2019 02:21

Tgt Ion:278 Resp: 6793
Ion Ratio Lower Upper
278 100
139 30.8 11.3 16.9#
279 39.7 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: 0.182 ng

RT: 25.85 min Scan# 3307

Delta R.T. -0.02 min

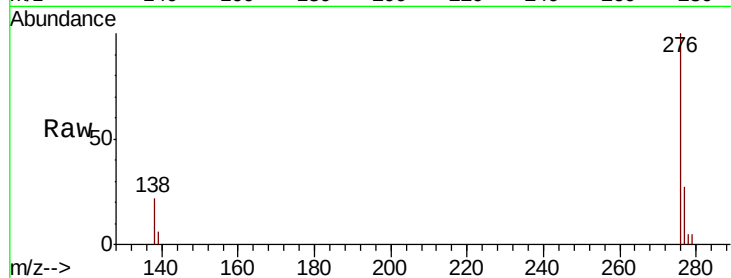
Lab File: BN007215.D

Acq: 16 Aug 2019 02:21

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 22293

Ion Ratio Lower Upper

276 100

277 27.4 19.8 29.8

138 22.1 14.6 22.0

