

Data File : BN007176.D
Acq On : 14 Aug 2019 22:53
Operator : HP/JU
Sample : K4282-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-035-SW118-080819

Quant Time: Aug 15 11:40:05 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	7400	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	27750	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	15150	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	35460	0.40	ng	0.00
26) Chrysene-d12	21.05	240	35412	0.40	ng	-0.01
32) Perylene-d12	23.16	264	38870	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	4665	0.26	ng	0.00
4) Phenol-d6	6.61	99	6269	0.28	ng	0.00
7) Nitrobenzene-d5	8.55	82	5110	0.23	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	10845	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1208	0.15	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1690	0.08	ng	0.00
24) Fluoranthene-d10	18.87	212	24390	0.19	ng	0.00
28) Terphenyl-d14	19.48	244	18433	0.19	ng	-0.01

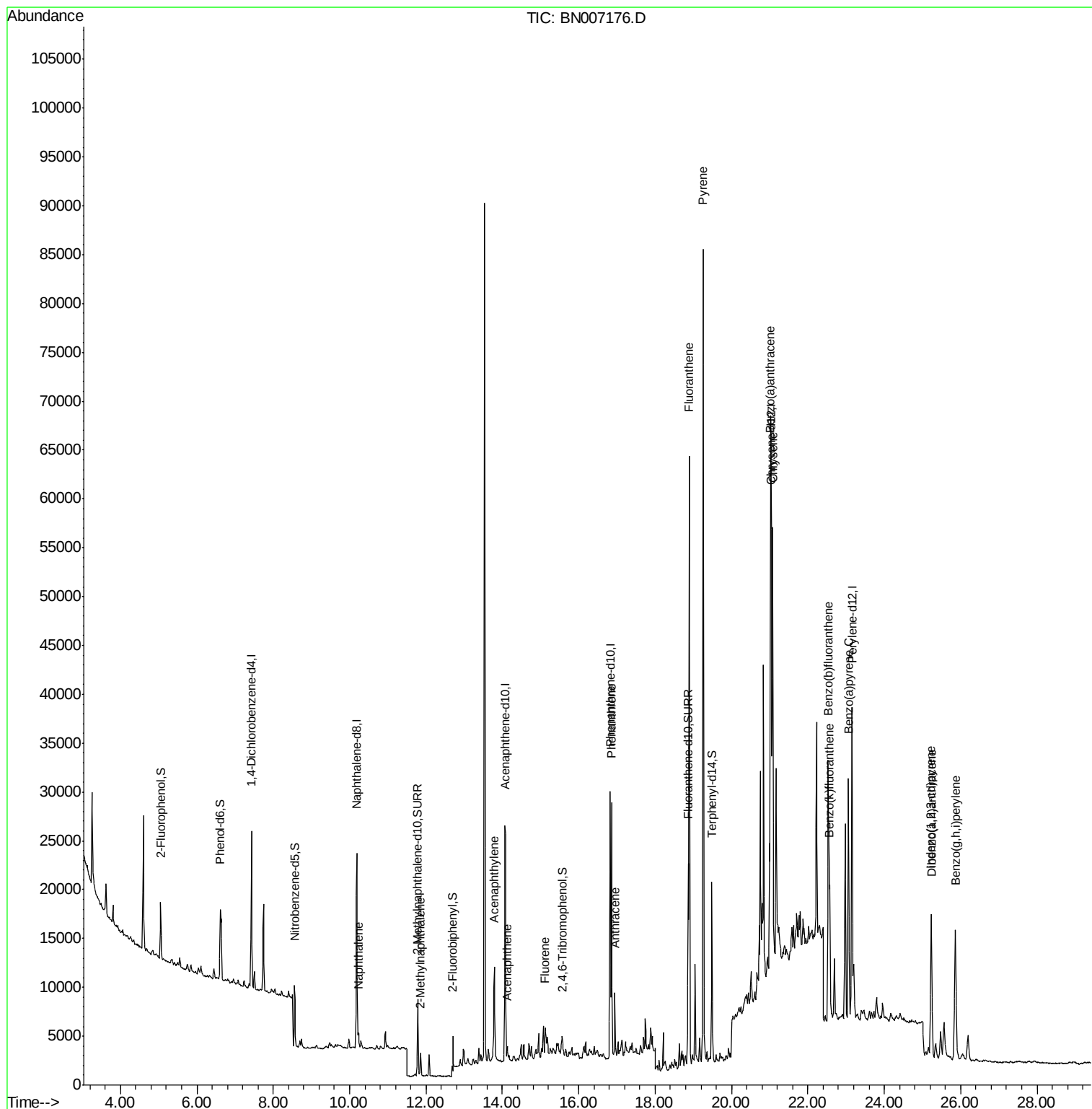
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	2166	0.028	ng	# 82
11) 2-Methylnaphthalene	11.86	142	1867	0.034	ng	# 89
15) Acenaphthylene	13.79	152	15385	0.194	ng	99
16) Acenaphthene	14.13	154	1052	0.021	ng	# 90
17) Fluorene	15.12	166	2889	0.038	ng	# 71
22) Phenanthrene	16.87	178	28114	0.265	ng	99
23) Anthracene	16.95	178	6148	0.063	ng	# 96
25) Fluoranthene	18.90	202	56157	0.413	ng	99
27) Pyrene	19.26	202	76479	0.616	ng	98
29) Benzo(a)anthracene	21.02	228	34050m	0.263	ng	
30) Chrysene	21.08	228	40986	0.326	ng	95
31) Indeno(1,2,3-cd)pyrene	25.23	276	22659	0.163	ng	99
33) Benzo(b)fluoranthene	22.53	252	44326	0.333	ng	# 91
34) Benzo(k)fluoranthene	22.57	252	13735m	0.104	ng	
35) Benzo(a)pyrene	23.07	252	33007	0.273	ng	# 92
36) Dibenzo(a,h)anthracene	25.24	278	5814	0.048	ng	# 48
37) Benzo(g,h,i)perylene	25.86	276	26474	0.213	ng	# 92

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

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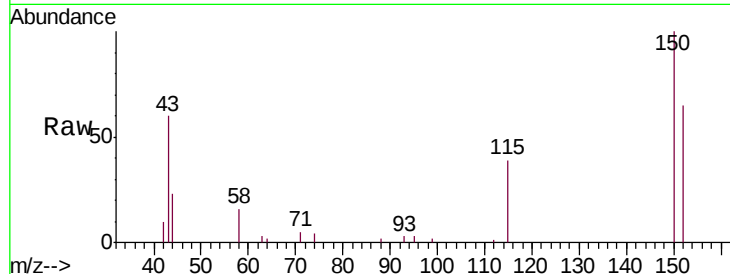


#1

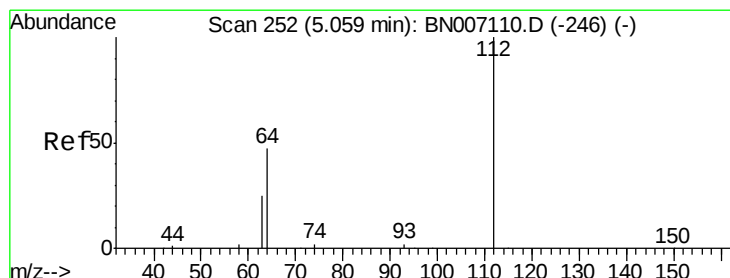
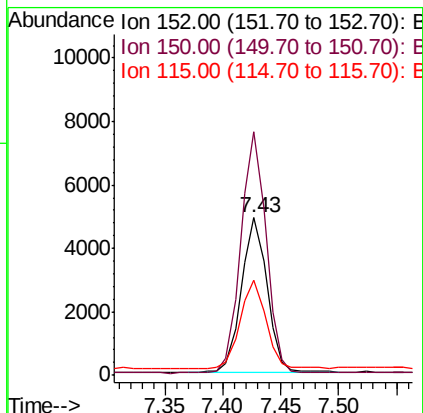
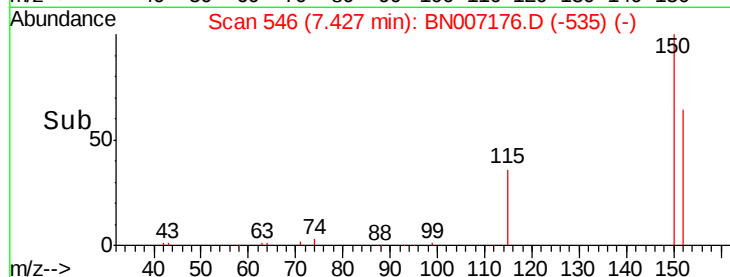
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

Instrument :
BNA_N
ClientSampleId :
PST-035-SW118-080819

Tgt Ion:152 Resp: 7400
Ion Ratio Lower Upper
152 100
150 154.4 121.7 182.5
115 60.4 46.2 69.4



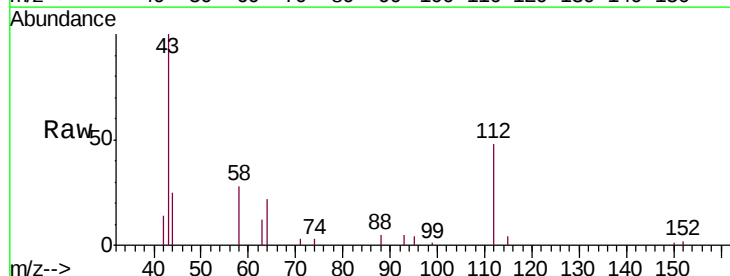
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



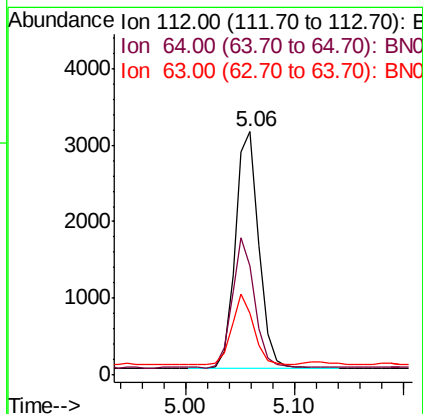
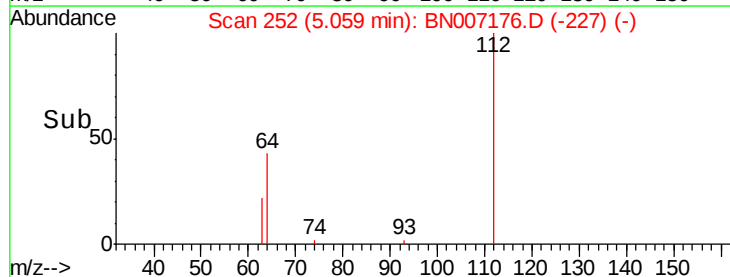
#3

2-Fluorophenol
Concen: 0.262 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

Tgt Ion:112 Resp: 4665
Ion Ratio Lower Upper
112 100
64 51.7 42.6 63.8
63 27.3 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: 0.285 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

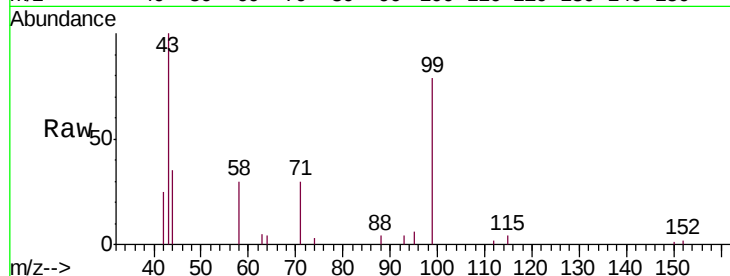
Tgt Ion: 99 Resp: 6269

Ion Ratio Lower Upper

99 100

42 23.8 15.8 23.6#

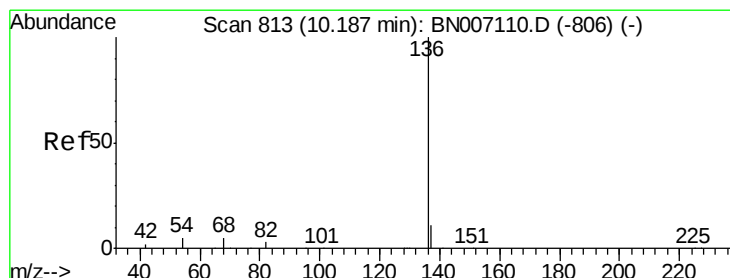
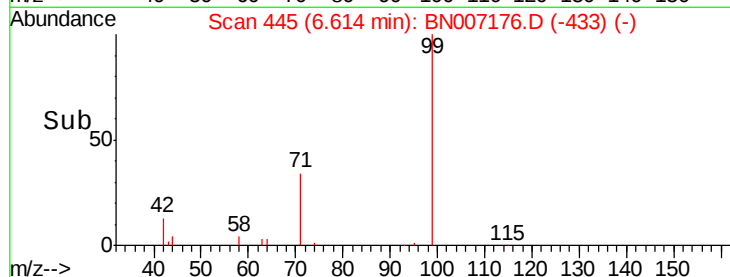
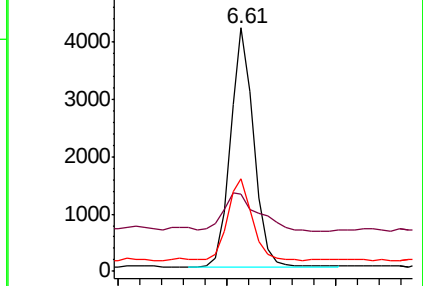
71 35.5 27.0 40.4



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: BN007176.D

Acq: 14 Aug 2019 22:53

Tgt Ion: 136 Resp: 27750

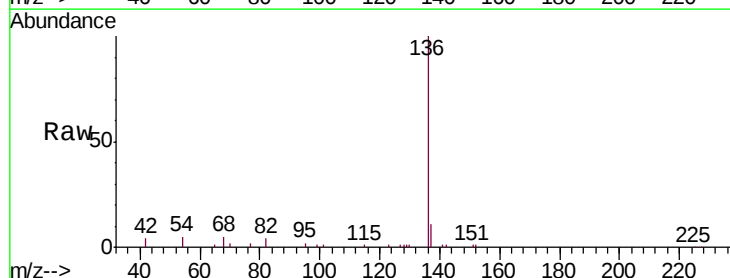
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 4.9 6.6 9.8#

68 4.9 6.0 9.0#

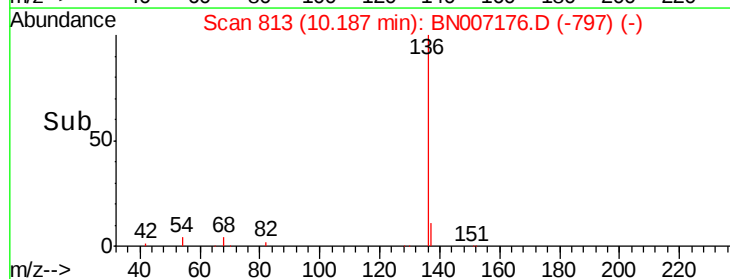
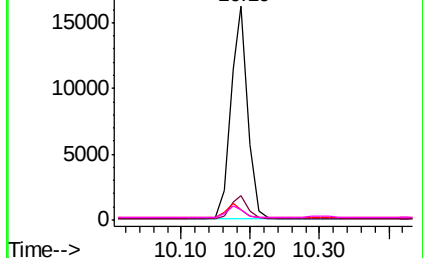


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.228 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

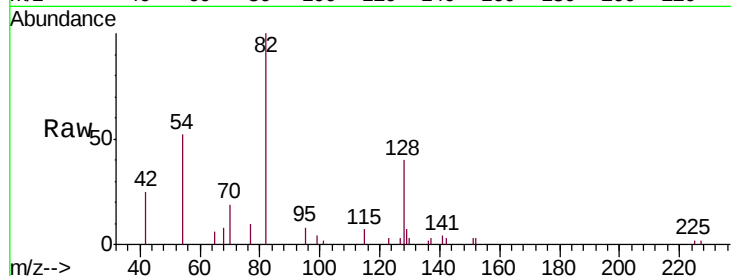
Tgt Ion: 82 Resp: 5110

Ion Ratio Lower Upper

82 100

128 39.8 34.6 51.8

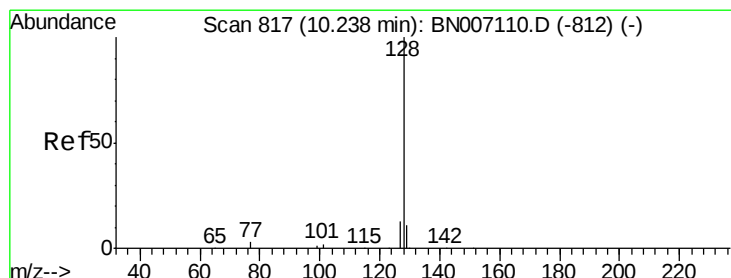
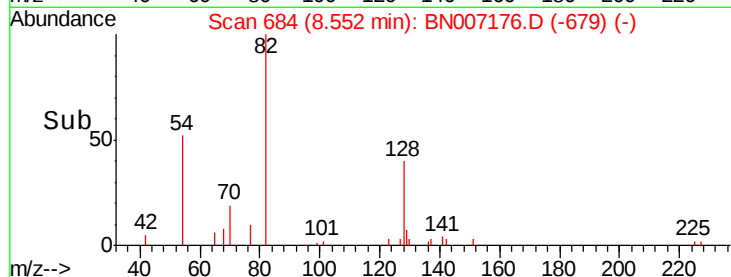
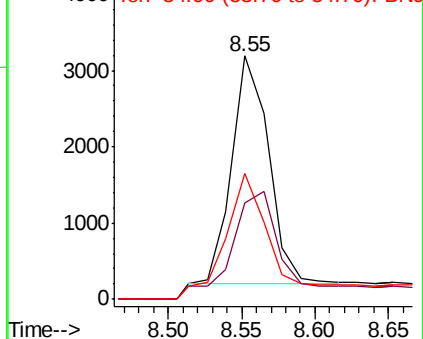
54 51.5 36.2 54.4



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: 0.028 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

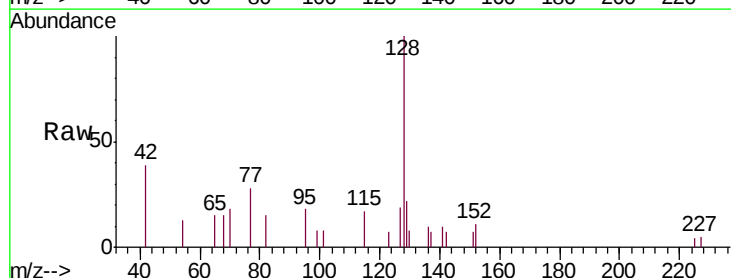
Tgt Ion: 128 Resp: 2166

Ion Ratio Lower Upper

128 100

129 21.7 9.4 14.2#

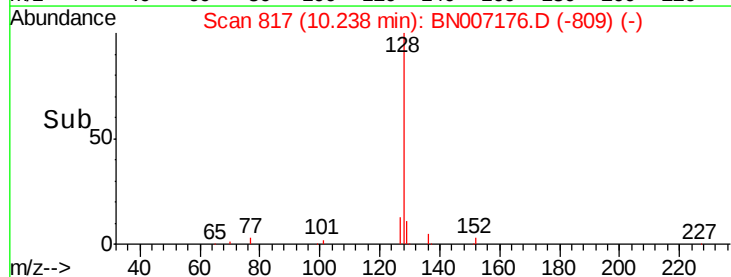
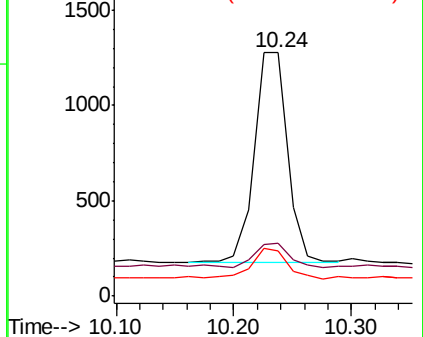
127 18.6 11.0 16.6#

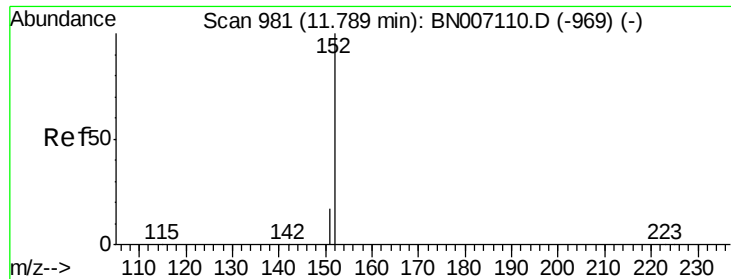


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

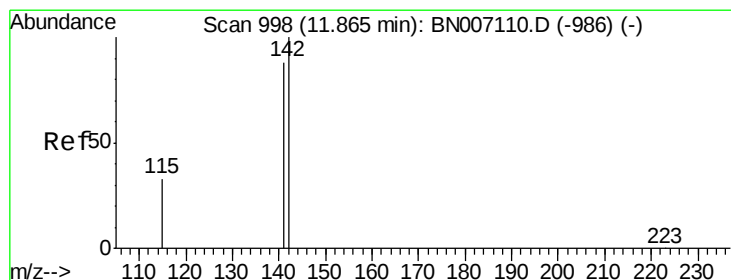
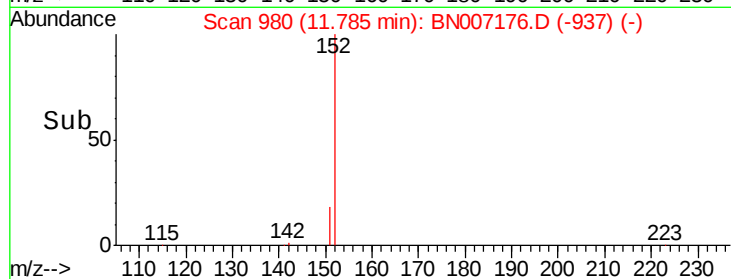
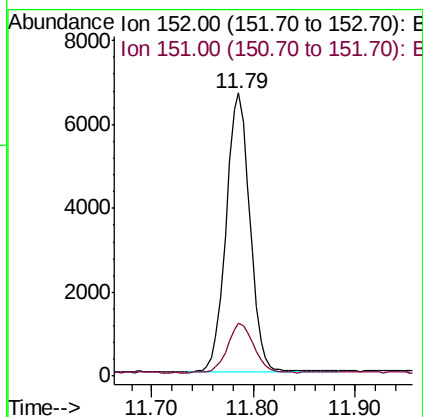
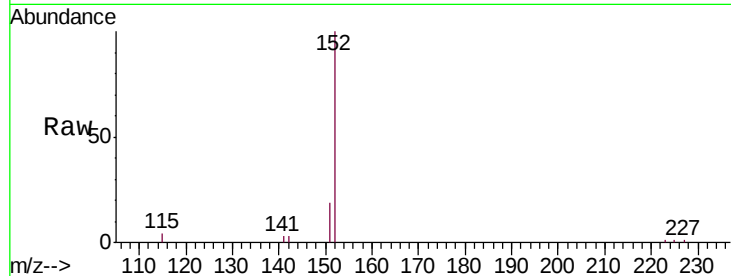




#10
 2-Methylnaphthalene-d10
 Concen: 0.210 ng
 RT: 11.79 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: BN007176.D
 Acq: 14 Aug 2019 22:53

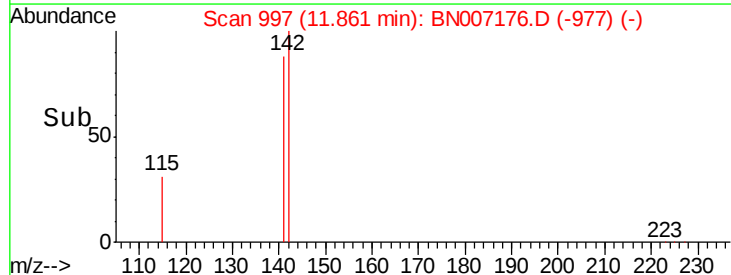
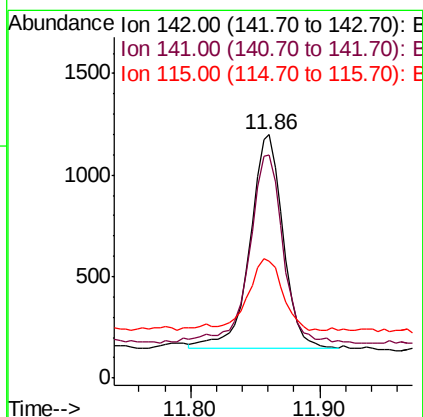
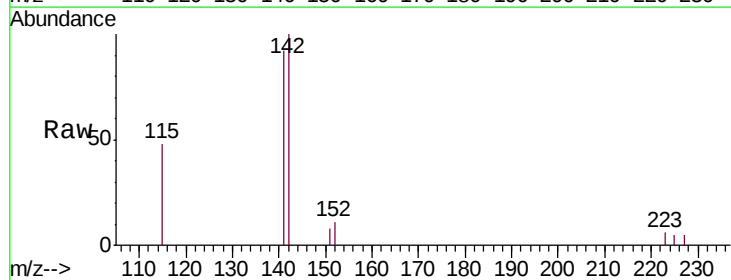
Instrument :
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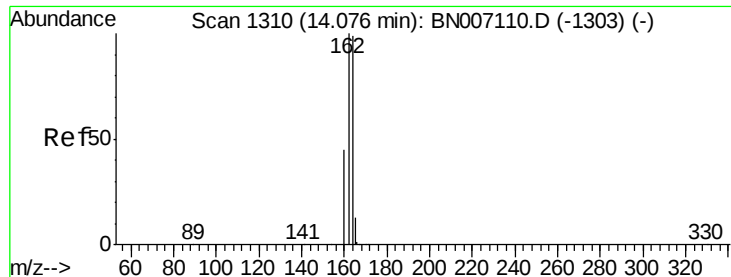
Tgt Ion:152 Resp: 10845
 Ion Ratio Lower Upper
 152 100
 151 19.4 15.5 23.3



#11
 2-Methylnaphthalene
 Concen: 0.034 ng
 RT: 11.86 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: BN007176.D
 Acq: 14 Aug 2019 22:53

Tgt Ion:142 Resp: 1867
 Ion Ratio Lower Upper
 142 100
 141 91.9 69.0 103.6
 115 48.0 27.1 40.7#





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

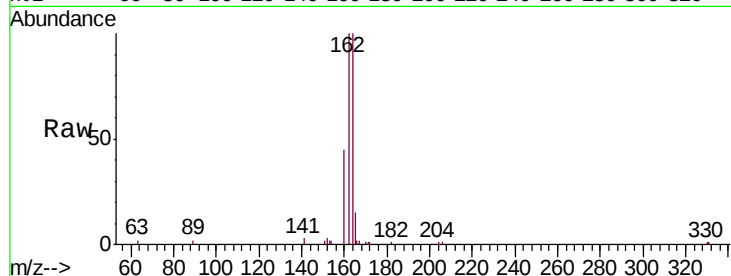
Tgt Ion:164 Resp: 15150

Ion Ratio Lower Upper

164 100

162 100.2 82.2 123.4

160 45.6 38.3 57.5

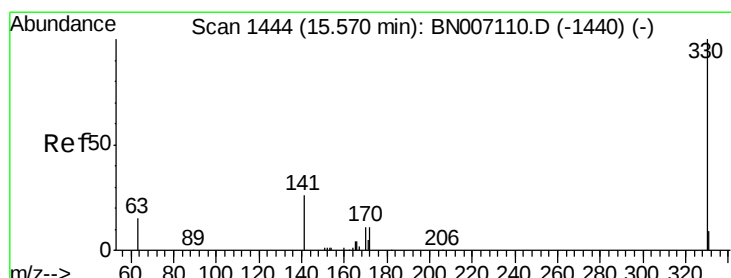
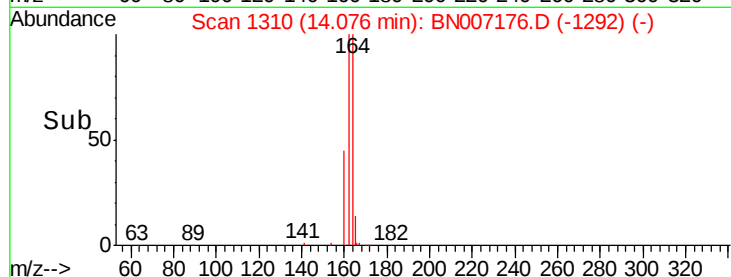
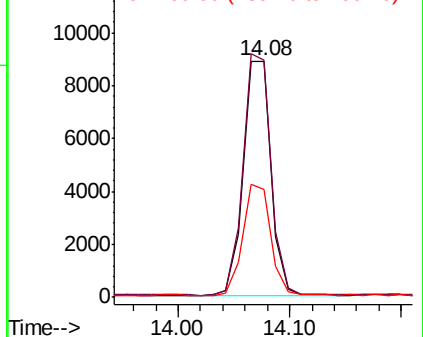


Abundance

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: 0.148 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

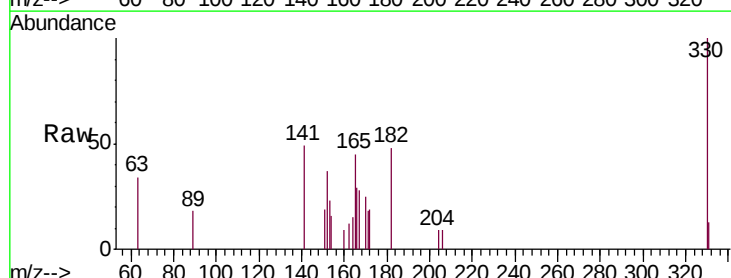
Tgt Ion:330 Resp: 1208

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 52.6 33.6 50.4#

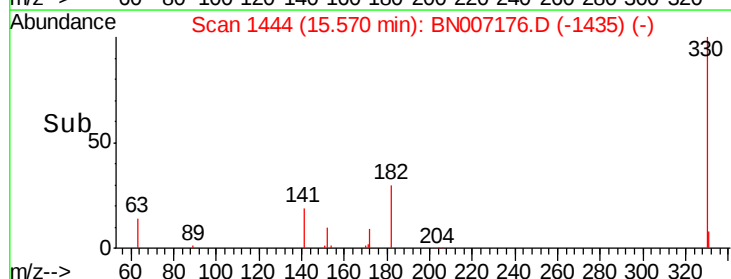
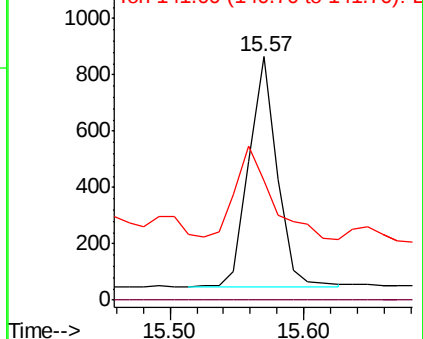


Abundance

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

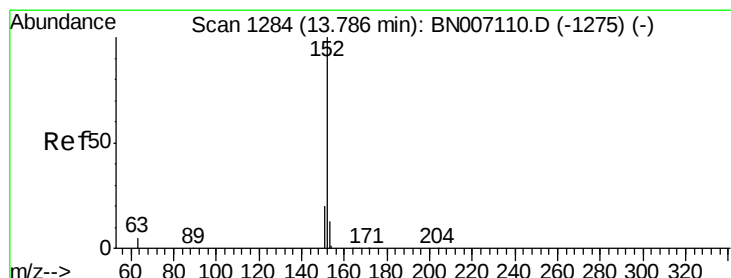
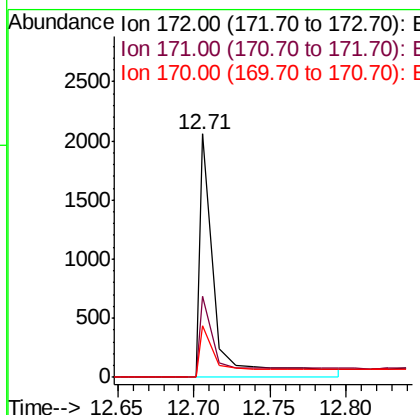
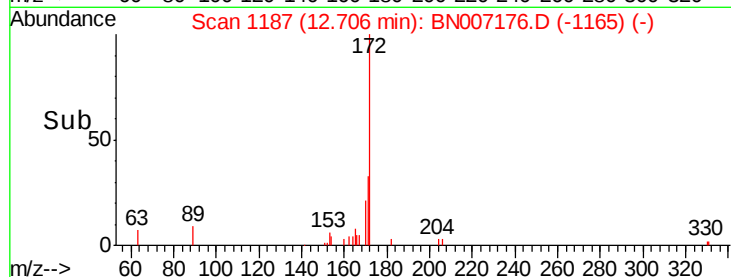
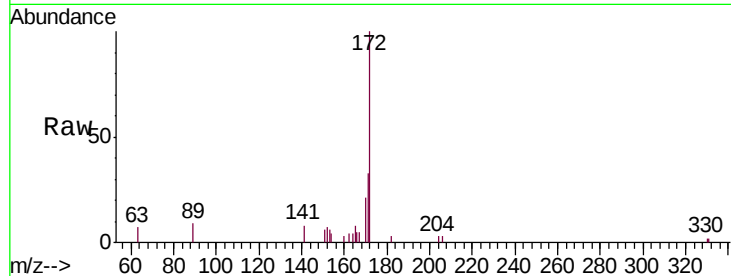




#14
2-Fluorobiphenyl
Concen: 0.077 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

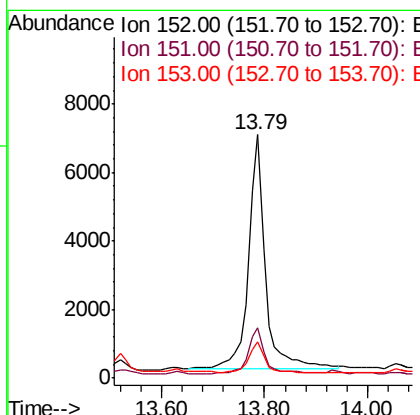
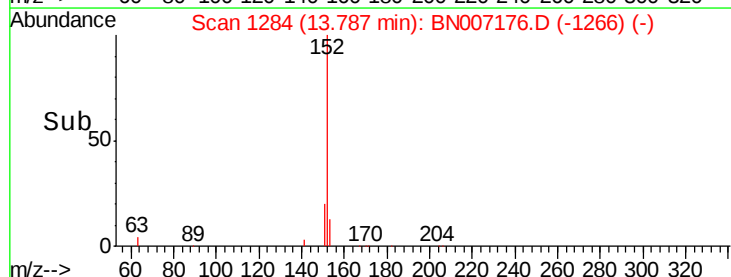
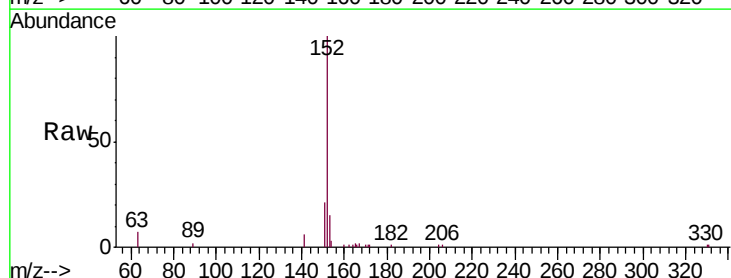
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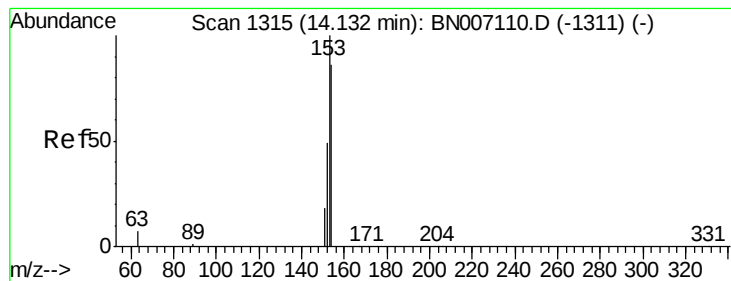
Tgt Ion:172 Resp: 1690
Ion Ratio Lower Upper
172 100
171 33.1 26.3 39.5
170 21.0 17.0 25.4



#15
Acenaphthylene
Concen: 0.194 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

Tgt Ion:152 Resp: 15385
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 12.6 10.4 15.6





#16

Acenaphthene

Concen: 0.021 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

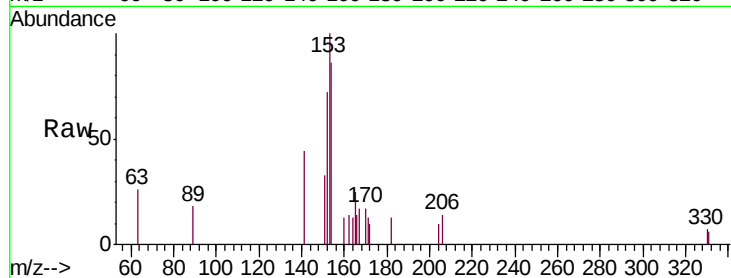
Tgt Ion:154 Resp: 1052

Ion Ratio Lower Upper

154 100

153 117.6 89.5 134.3

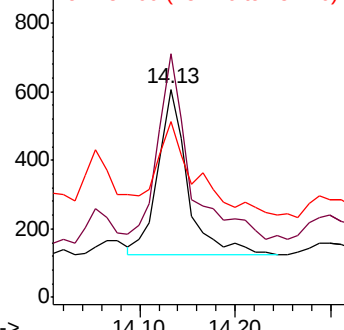
152 70.1 44.8 67.2#



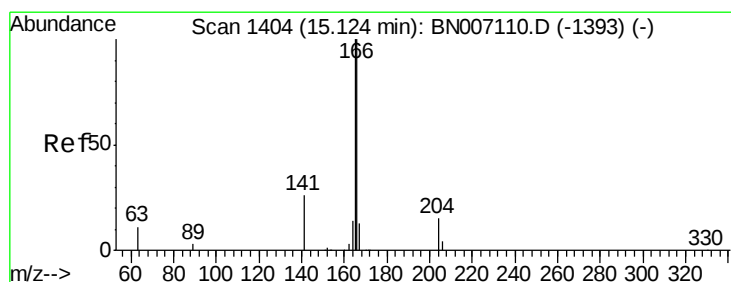
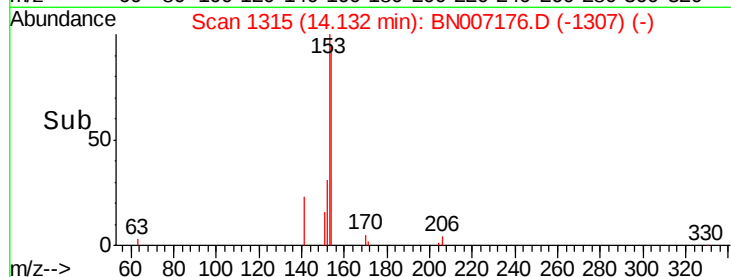
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#17

Fluorene

Concen: 0.038 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

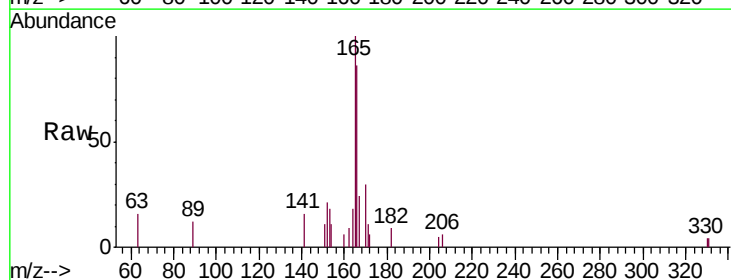
Tgt Ion:166 Resp: 2889

Ion Ratio Lower Upper

166 100

165 129.5 77.9 116.9#

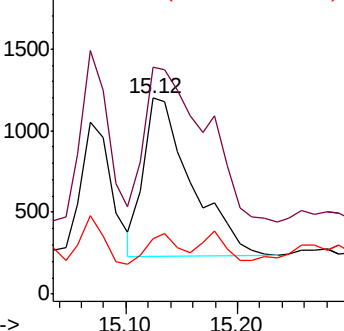
167 13.3 10.9 16.3



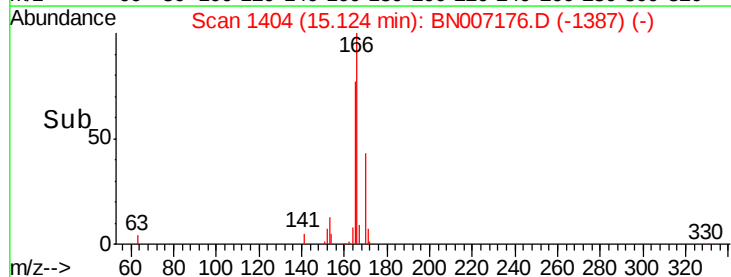
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->

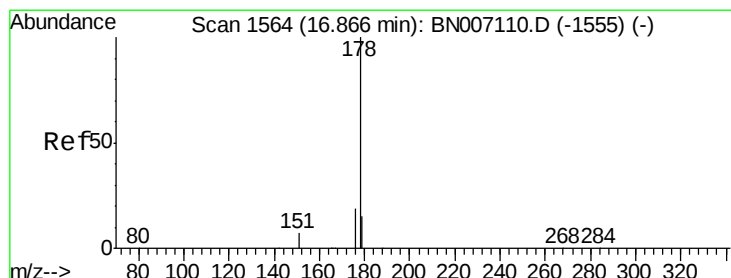
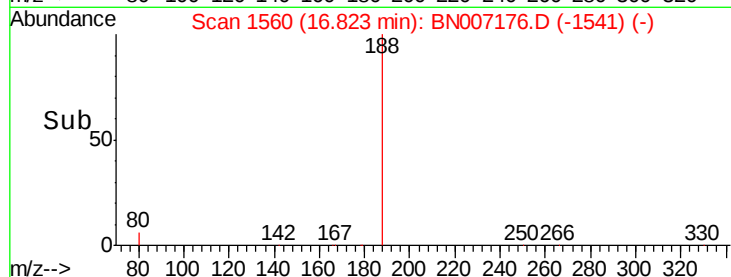
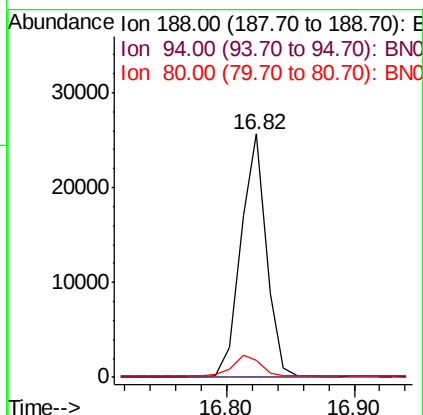
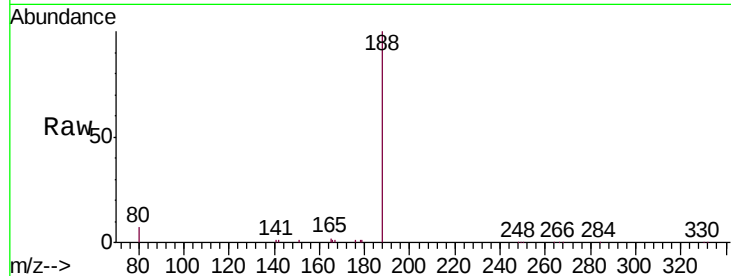




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

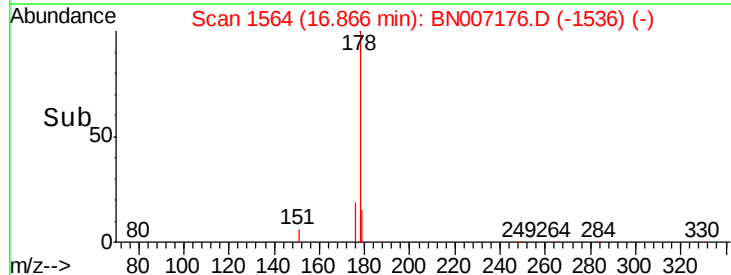
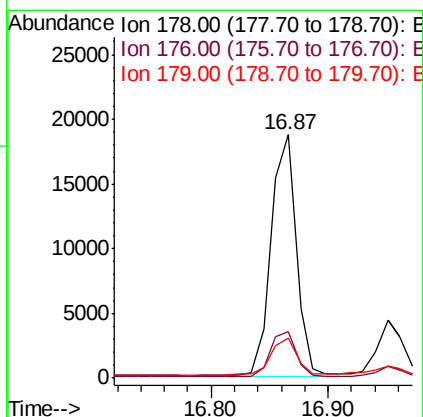
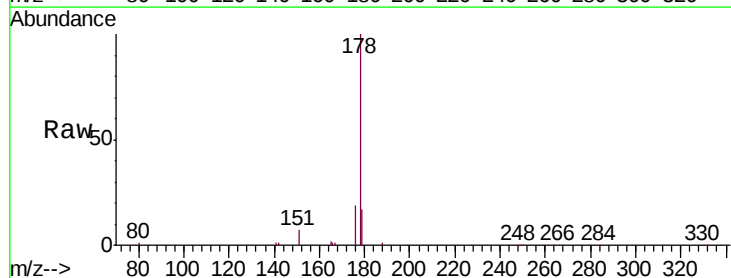
Instrument :
BNA_N
ClientSampleId :
PST-035-SW118-080819

Tgt Ion:188 Resp: 35460
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.8 7.8 11.6#



#22
Phenanthrene
Concen: 0.265 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007176.D
Acq: 14 Aug 2019 22:53

Tgt Ion:178 Resp: 28114
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 16.4 12.3 18.5





#23

Anthracene

Concen: 0.063 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

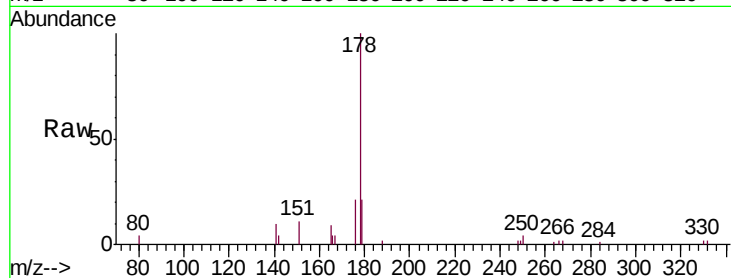
Tgt Ion:178 Resp: 6148

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

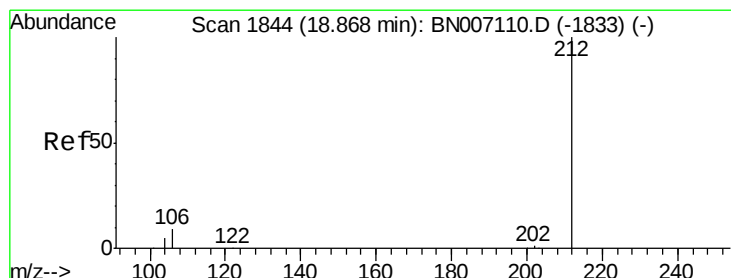
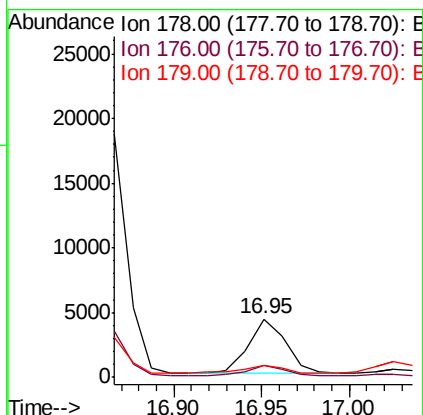
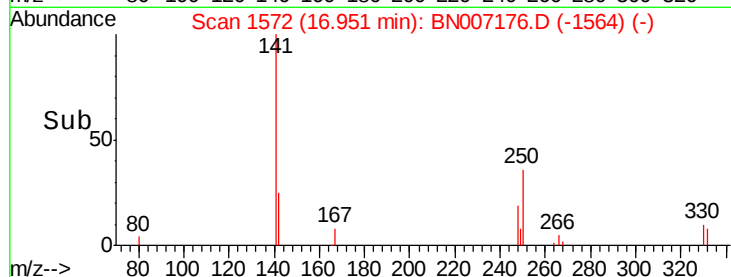
179 19.2 12.5 18.7#



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: 0.194 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

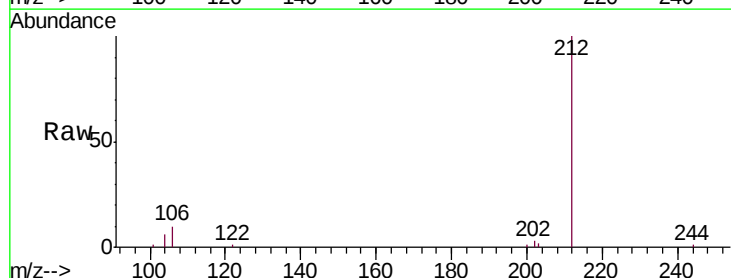
Tgt Ion:212 Resp: 24390

Ion Ratio Lower Upper

212 100

106 10.7 8.2 12.2

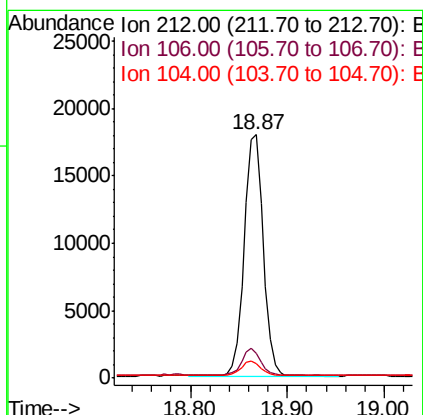
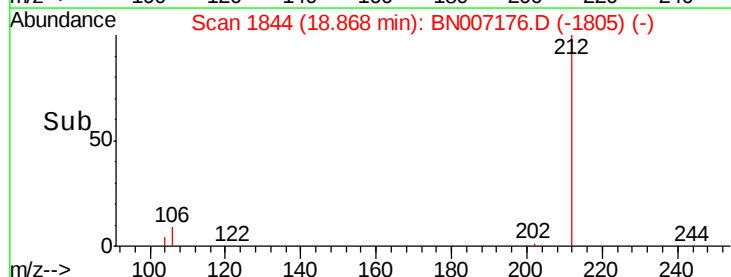
104 6.3 4.5 6.7

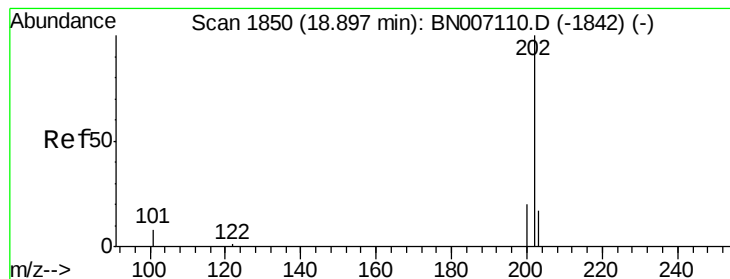


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.413 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

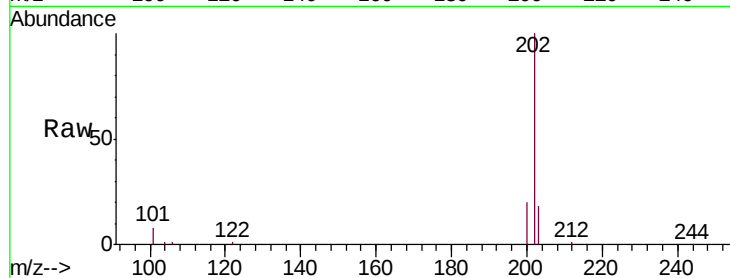
Tgt Ion:202 Resp: 56157

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

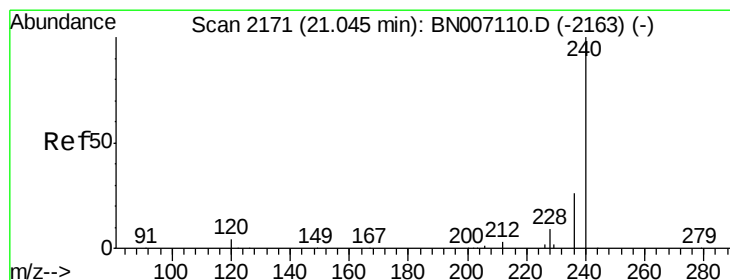
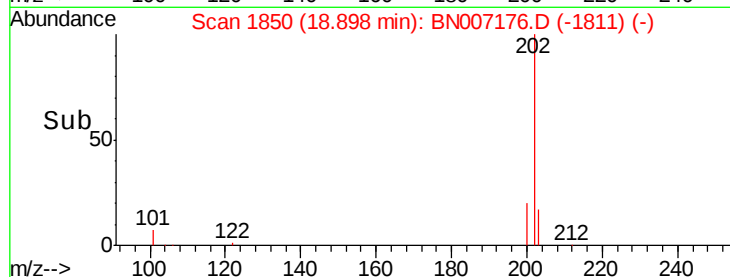
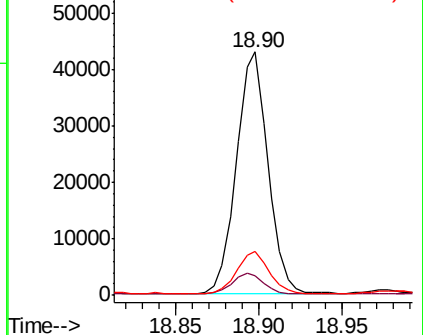
203 17.7 13.8 20.8



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: BN007176.D

Acq: 14 Aug 2019 22:53

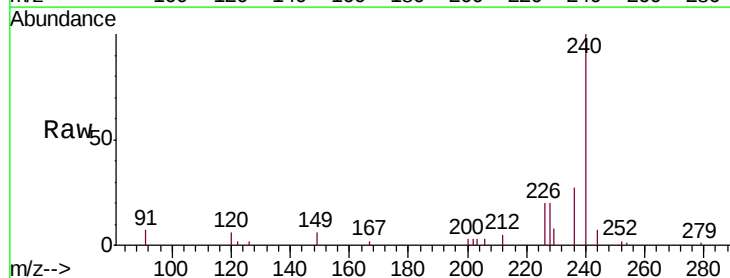
Tgt Ion:240 Resp: 35412

Ion Ratio Lower Upper

240 100

120 6.1 4.0 6.0#

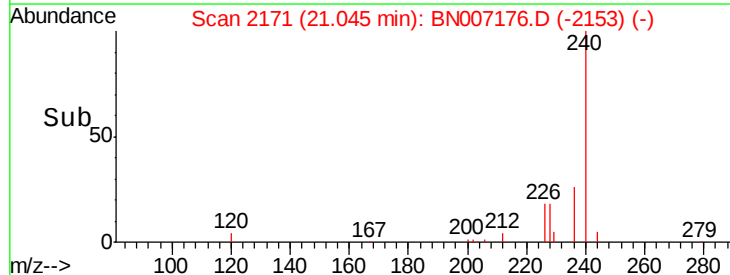
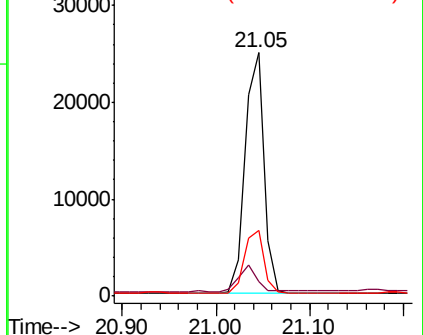
236 27.2 21.3 31.9



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

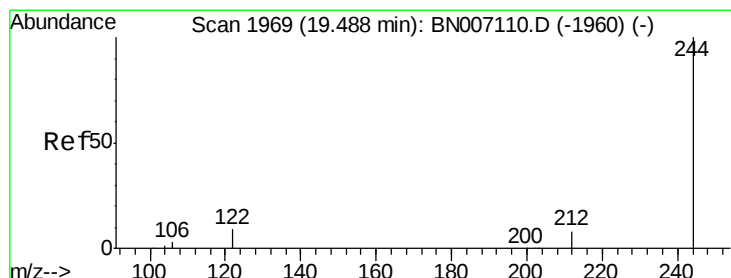
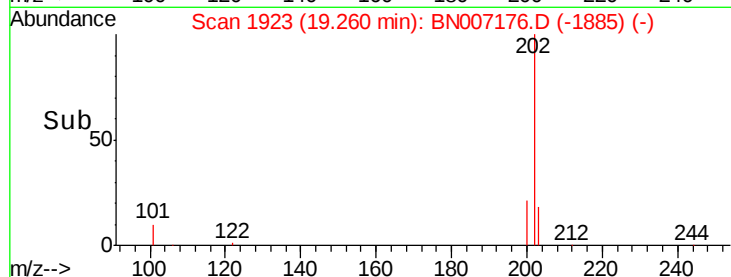
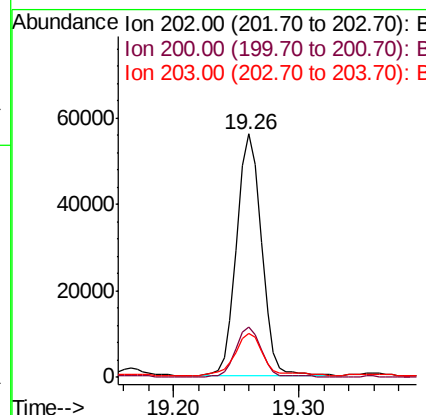
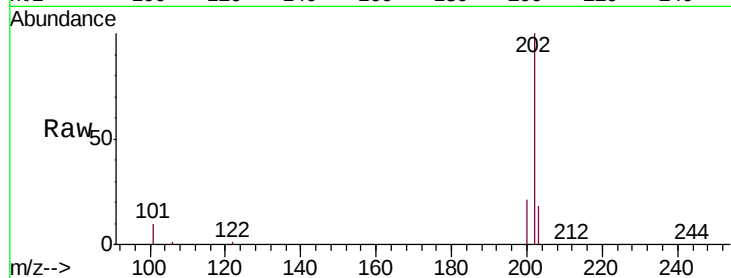




#27
 Pyrene
 Concen: 0.616 ng
 RT: 19.26 min Scan# 1923
 Delta R.T. -0.01 min
 Lab File: BN007176.D
 Acq: 14 Aug 2019 22:53

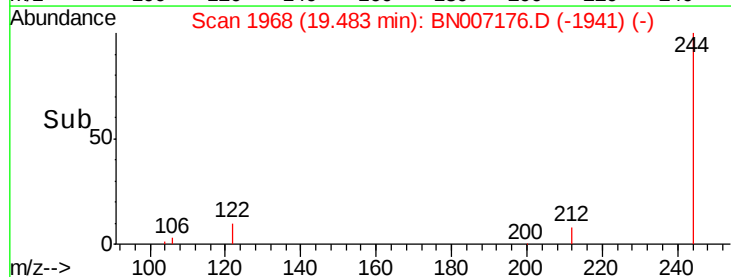
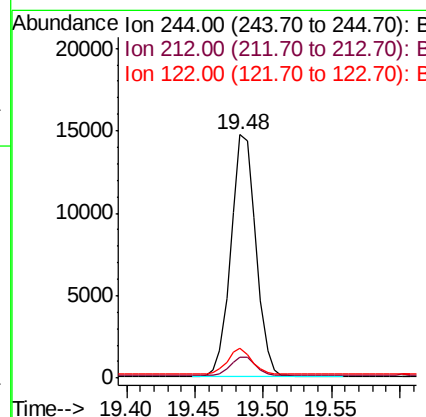
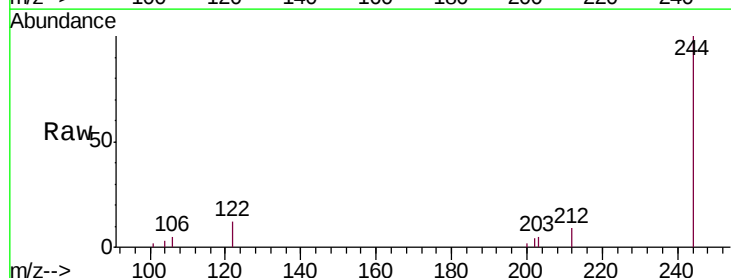
Instrument :
 BNA_N
 ClientSampleId :
 PST-035-SW118-080819

Tgt Ion:202 Resp: 76479
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.6 24.8
 203 19.1 14.0 21.0



#28
 Terphenyl-d14
 Concen: 0.191 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: BN007176.D
 Acq: 14 Aug 2019 22:53

Tgt Ion:244 Resp: 18433
 Ion Ratio Lower Upper
 244 100
 212 8.7 6.2 9.2
 122 12.1 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 0.263 ng m

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

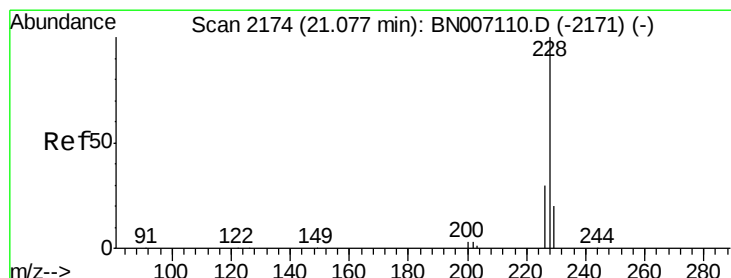
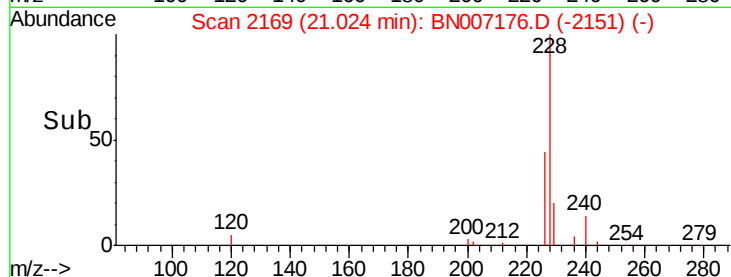
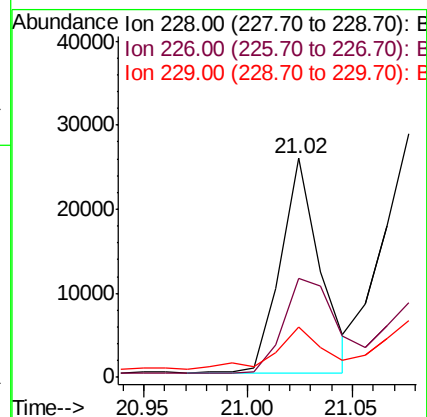
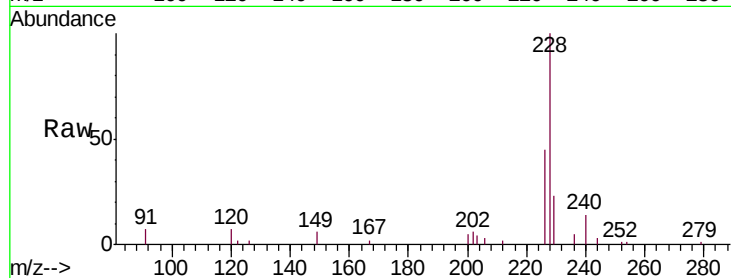
Tgt Ion:228 Resp: 34050

Ion Ratio Lower Upper

228 100

226 45.0 21.8 32.6#

229 22.9 15.6 23.4



#30

Chrysene

Concen: 0.326 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

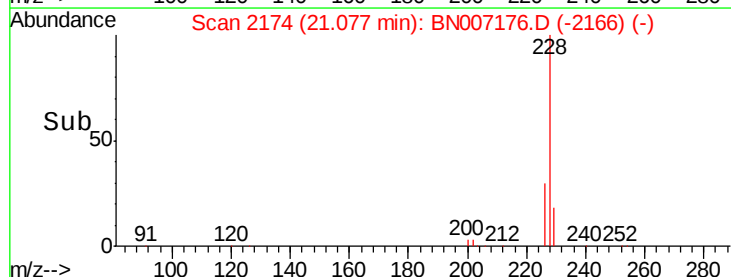
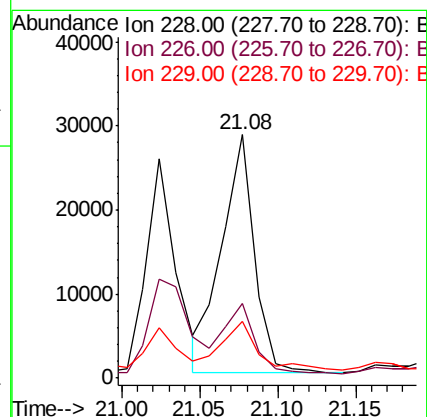
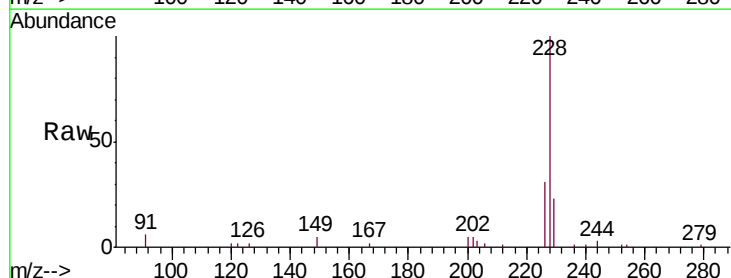
Tgt Ion:228 Resp: 40986

Ion Ratio Lower Upper

228 100

226 30.9 23.8 35.6

229 23.4 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.163 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

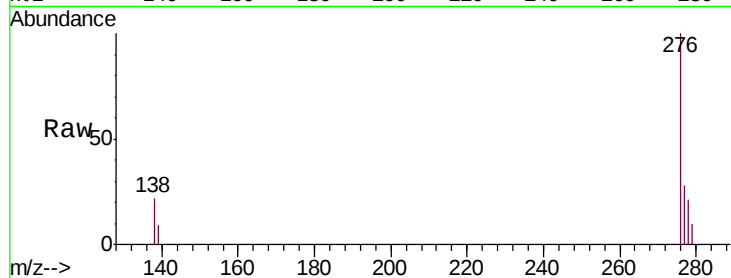
Tgt Ion:276 Resp: 22659

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

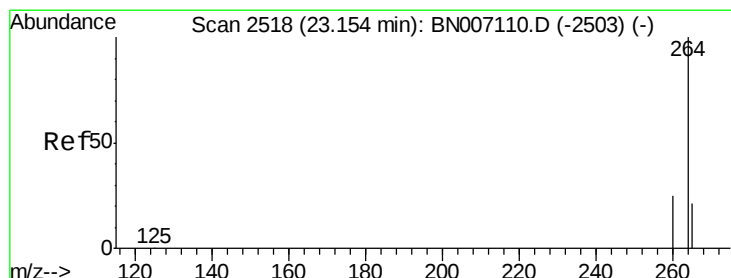
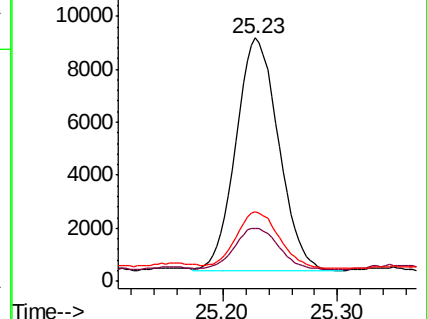
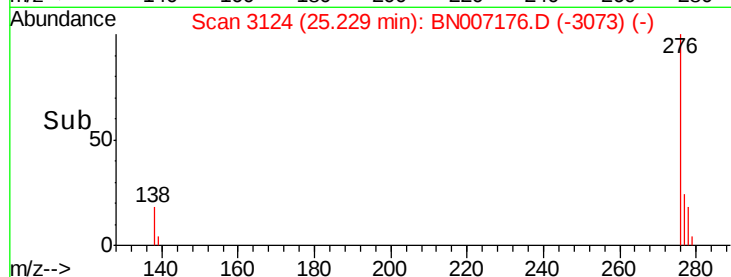
277 25.0 19.9 29.9



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: BN007176.D

Acq: 14 Aug 2019 22:53

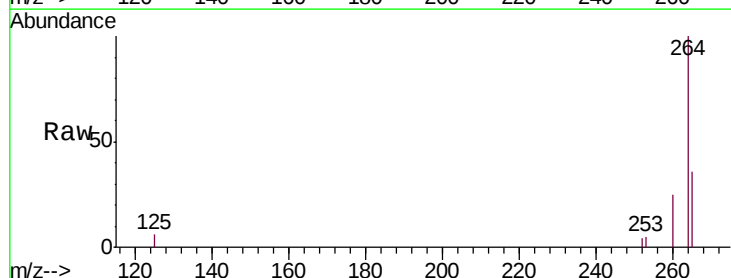
Tgt Ion:264 Resp: 38870

Ion Ratio Lower Upper

264 100

260 25.2 19.8 29.8

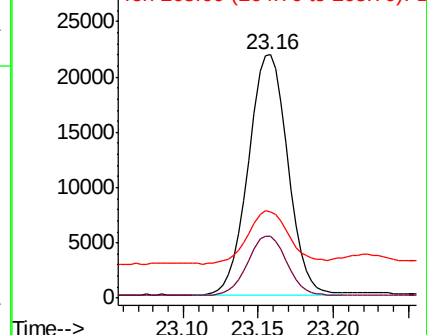
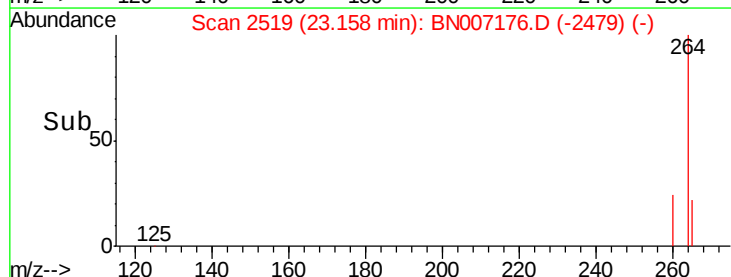
265 35.6 26.2 39.4



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: 0.333 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

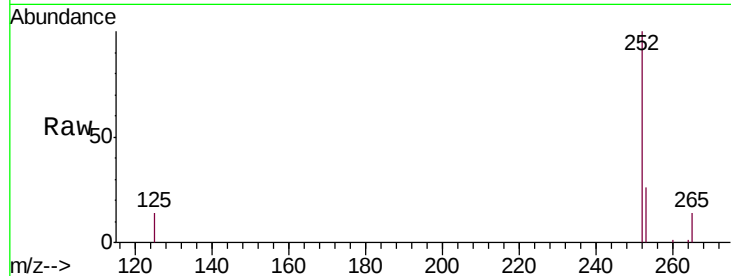
BNA_N

ClientSampleId :

PST-035-SW118-080819

Tgt Ion:252 Resp: 44326

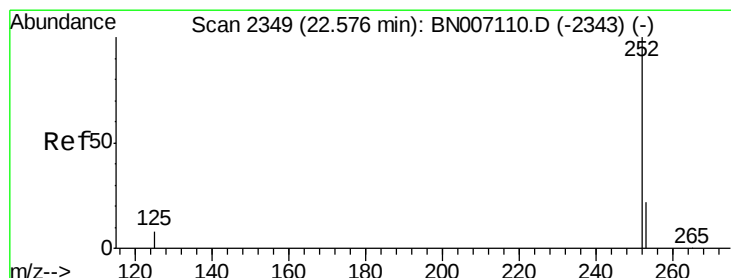
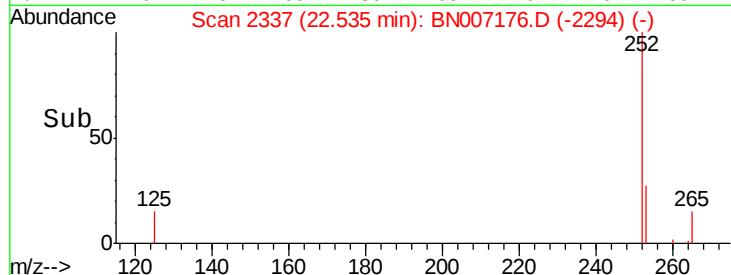
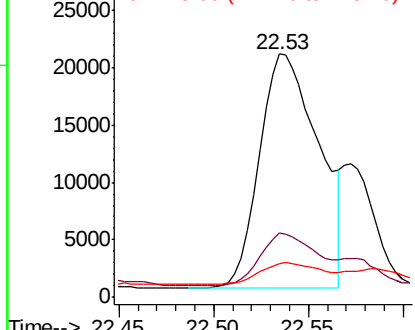
Ion	Ratio	Lower	Upper
252	100		
253	26.2	18.2	27.2
125	14.0	7.4	11.0#



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: 0.104 ng m

RT: 22.57 min Scan# 2348

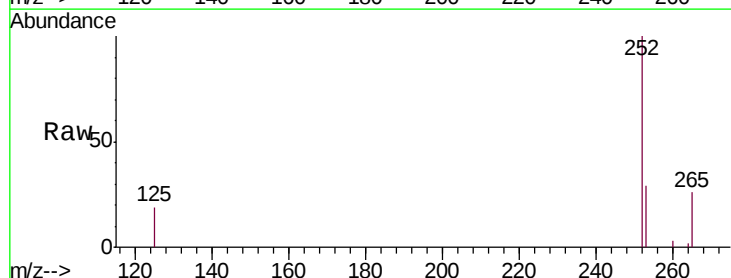
Delta R.T. -0.02 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Tgt Ion:252 Resp: 13735

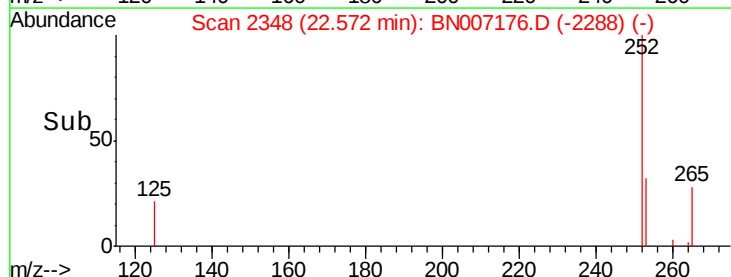
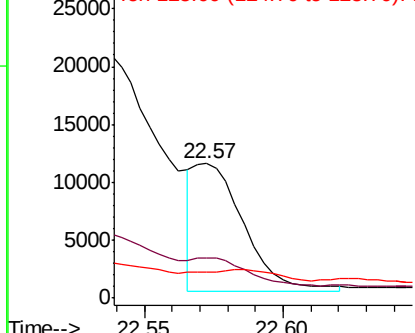
Ion	Ratio	Lower	Upper
252	100		
253	29.4	18.1	27.1#
125	19.3	7.4	11.0#

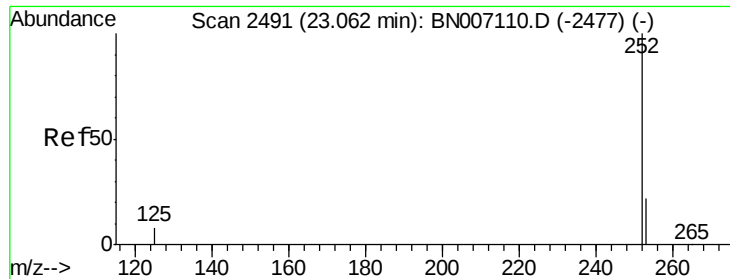


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.273 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819

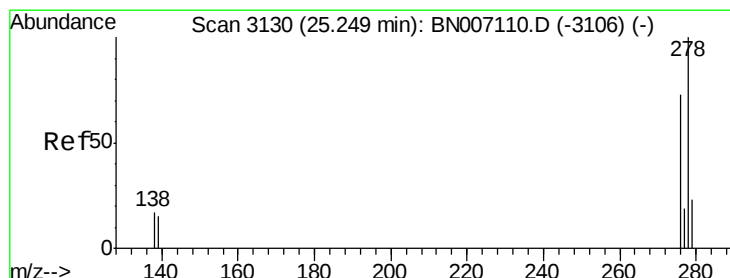
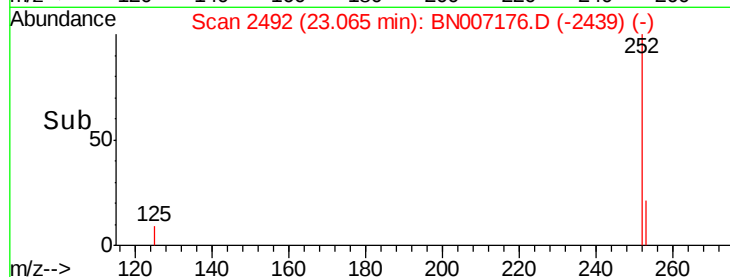
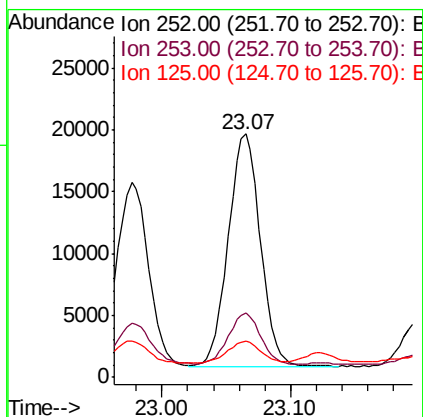
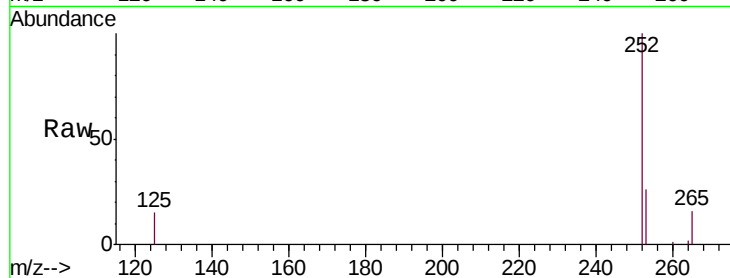
Tgt Ion:252 Resp: 33007

Ion Ratio Lower Upper

252 100

253 26.2 18.5 27.7

125 14.7 8.2 12.4#



#36

Dibenzo(a,h)anthracene

Concen: 0.048 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007176.D

Acq: 14 Aug 2019 22:53

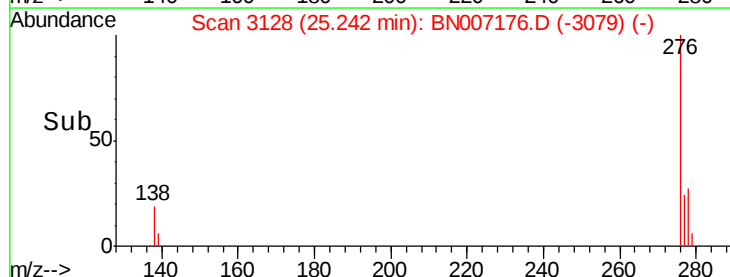
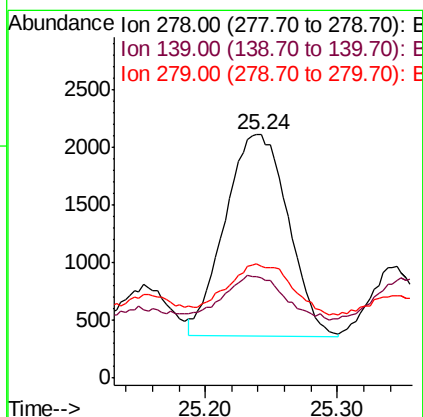
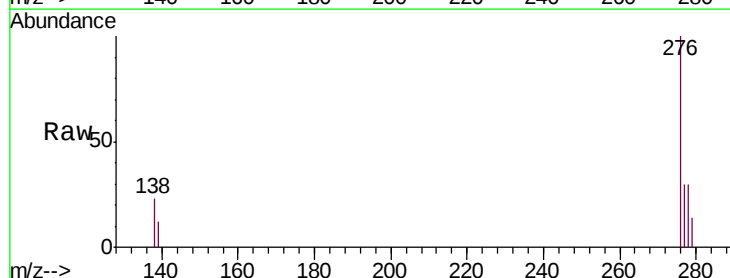
Tgt Ion:278 Resp: 5814

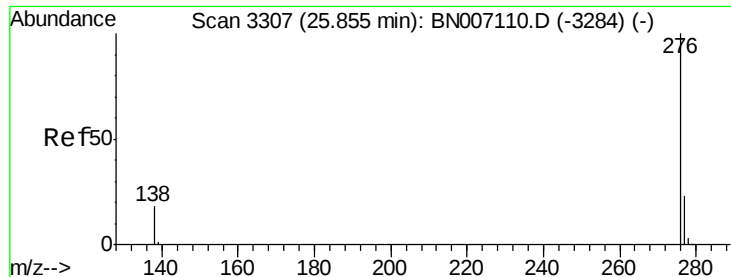
Ion Ratio Lower Upper

278 100

139 41.3 11.3 16.9#

279 45.9 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 0.213 ng

RT: 25.86 min Scan# 3309

Delta R.T. -0.02 min

Lab File: BN007176.D

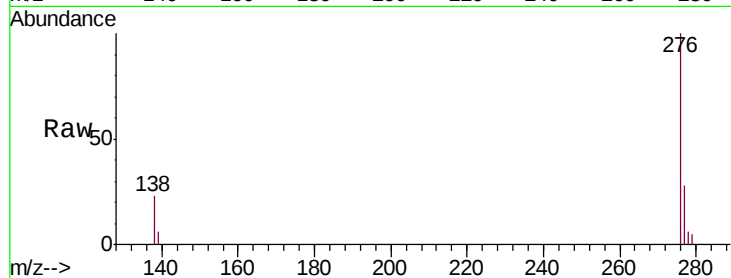
Acq: 14 Aug 2019 22:53

Instrument :

BNA_N

ClientSampleId :

PST-035-SW118-080819



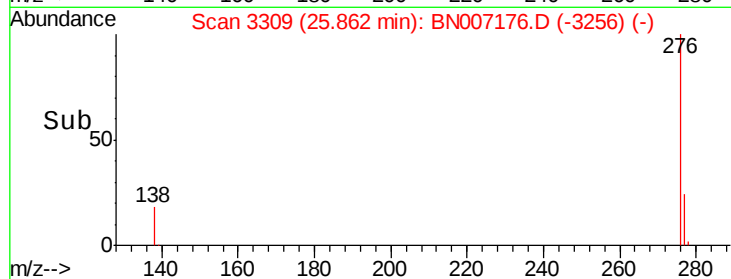
Tgt Ion: 276 Resp: 26474

Ion Ratio Lower Upper

276 100

277 28.1 19.8 29.8

138 22.8 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

