

Data File : BN007226.D
Acq On : 16 Aug 2019 17:00
Operator : HP/JU
Sample : K4240-08
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW101-080619

Quant Time: Aug 17 00:58:55 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	7.42	152	8131	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	31243	0.40	ng	-0.01
12) Acenaphthene-d10	14.06	164	18323	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	42962	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	39102	0.40	ng	-0.02
32) Perylene-d12	23.15	264	43147	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	6424	0.33	ng	0.00
4) Phenol-d6	6.61	99	8922	0.37	ng	0.00
7) Nitrobenzene-d5	8.55	82	7908	0.31	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	14780	0.25	ng	-0.02
13) 2,4,6-Tribromophenol	15.57	330	2431	0.25	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	888	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	33449	0.22	ng	-0.01
28) Terphenyl-d14	19.48	244	25037	0.23	ng	-0.02

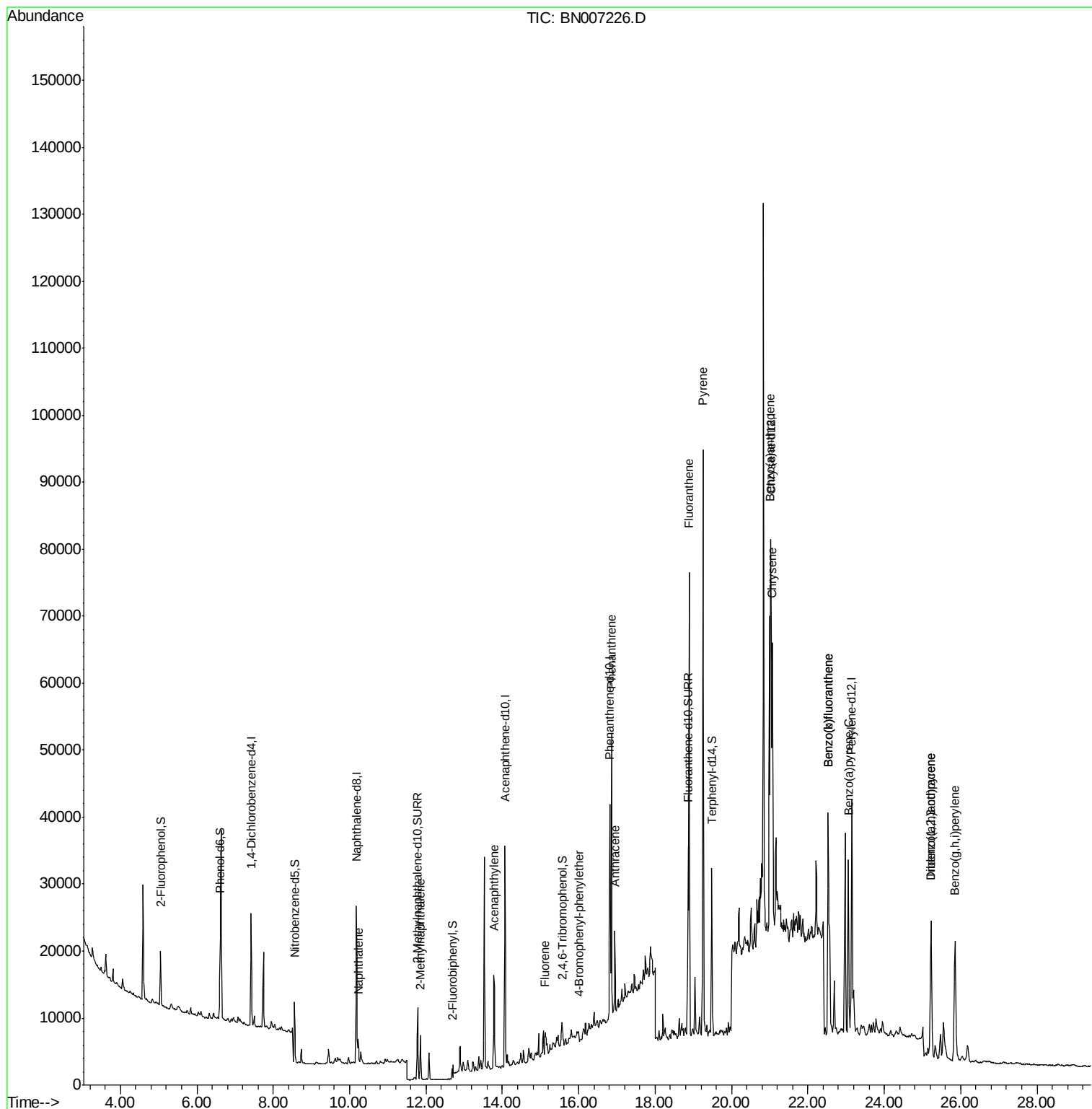
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	4587	0.052	ng	95
11) 2-Methylnaphthalene	11.85	142	4887	0.079	ng	95
15) Acenaphthylene	13.78	152	19149	0.200	ng	98
17) Fluorene	15.12	166	3179	0.035	ng	# 13
19) 4-Bromophenyl-phenylether	16.02	248	1043	0.039	ng	# 1
22) Phenanthrene	16.86	178	40959	0.318	ng	97
23) Anthracene	16.95	178	13578	0.115	ng	96
25) Fluoranthene	18.89	202	63357	0.385	ng	99
27) Pyrene	19.25	202	80927	0.590	ng	97
29) Benzo(a)anthracene	21.02	228	39451	0.276	ng	# 72
30) Chrysene	21.07	228	43119	0.310	ng	# 90
31) Indeno(1,2,3-cd)pyrene	25.22	276	31400	0.205	ng	99
33) Benzo(b)fluoranthene	22.53	252	56034	0.379	ng	# 91
34) Benzo(k)fluoranthene	22.53	252	56034	0.383	ng	# 90
35) Benzo(a)pyrene	23.06	252	34740	0.259	ng	# 90
36) Dibenzo(a,h)anthracene	25.24	278	8226	0.061	ng	# 49
37) Benzo(g,h,i)perylene	25.85	276	36172	0.263	ng	# 93

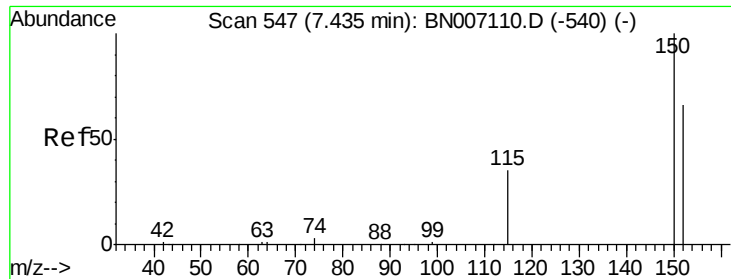
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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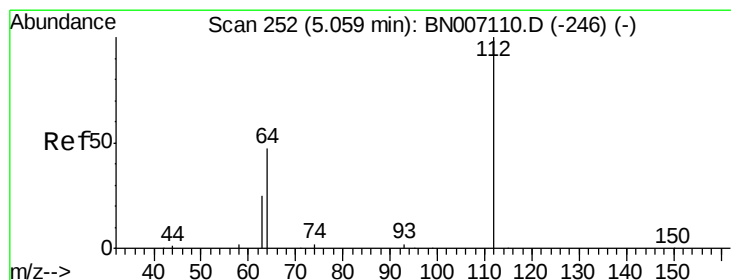
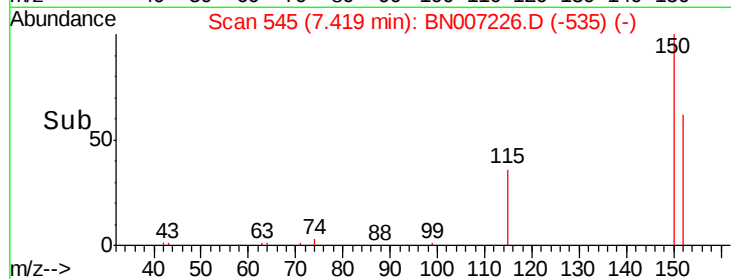
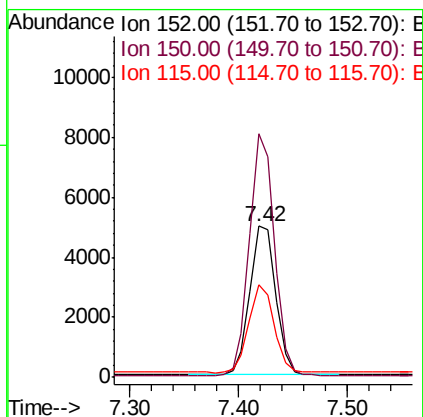
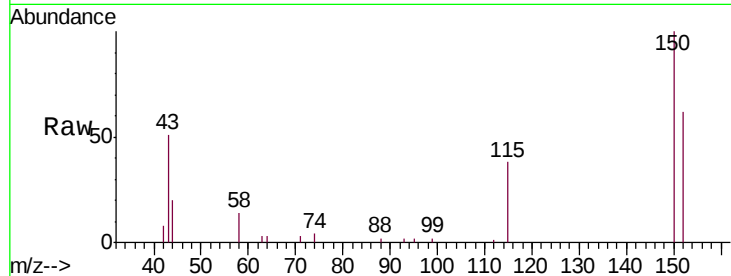


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007226.D
Acq: 16 Aug 2019 17:00

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW101-080619

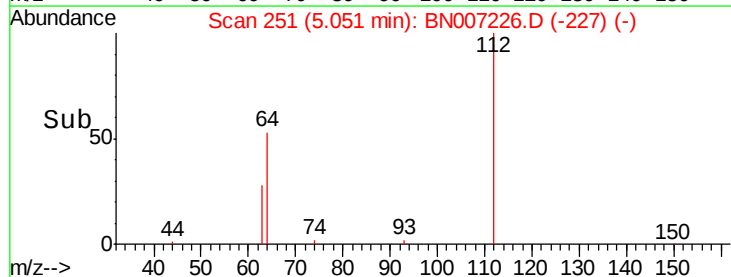
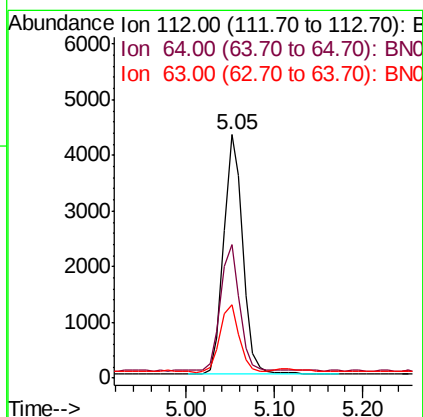
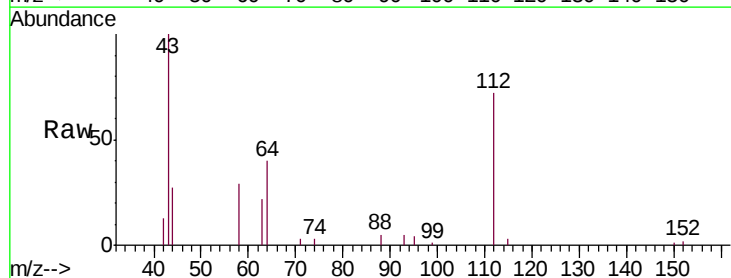
Tgt Ion:152 Resp: 8131
Ion Ratio Lower Upper
152 100
150 161.0 121.7 182.5
115 61.6 46.2 69.4



#3

2-Fluorophenol
Concen: 0.329 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007226.D
Acq: 16 Aug 2019 17:00

Tgt Ion:112 Resp: 6424
Ion Ratio Lower Upper
112 100
64 51.5 42.6 63.8
63 28.1 22.2 33.2





#4

Phenol-d6

Concen: 0.369 ng

RT: 6.61 min Scan# 444

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

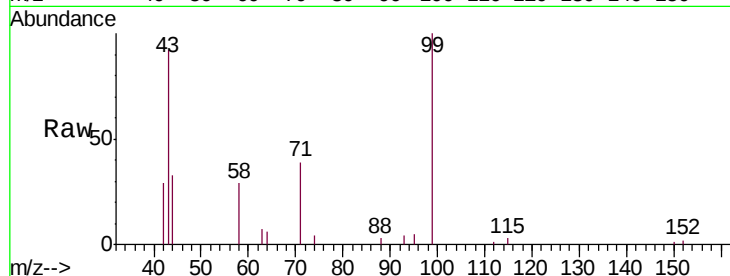
Tgt Ion: 99 Resp: 8922

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

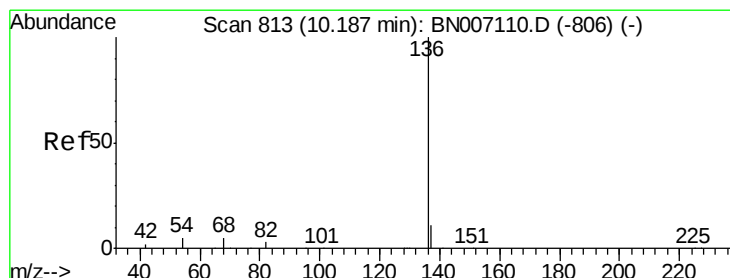
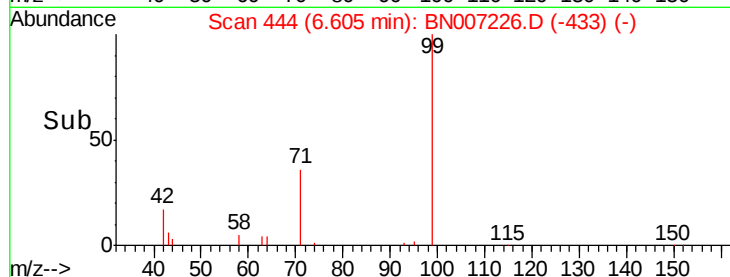
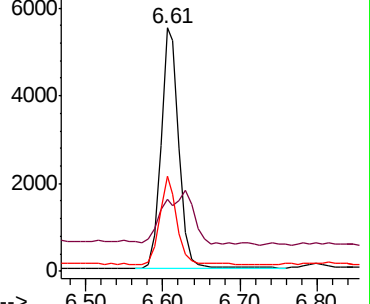
71 34.7 27.0 40.4



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: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Tgt Ion: 136 Resp: 31243

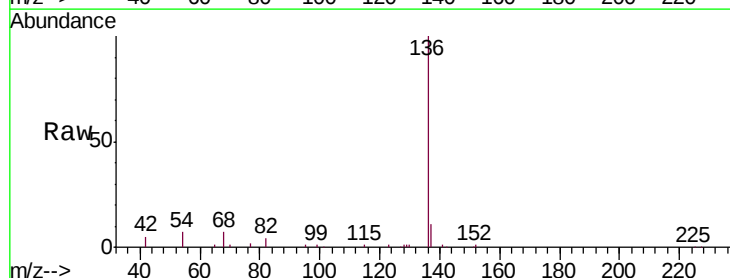
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 7.1 6.6 9.8

68 6.5 6.0 9.0

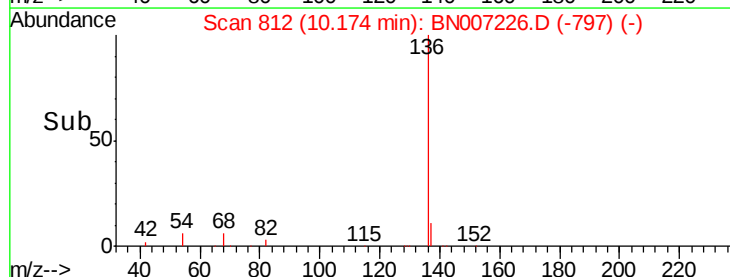
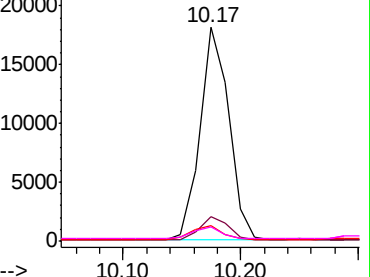


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.314 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

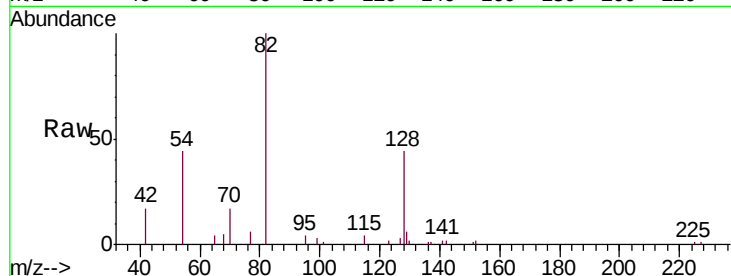
Tgt Ion: 82 Resp: 7908

Ion Ratio Lower Upper

82 100

128 43.5 34.6 51.8

54 43.9 36.2 54.4

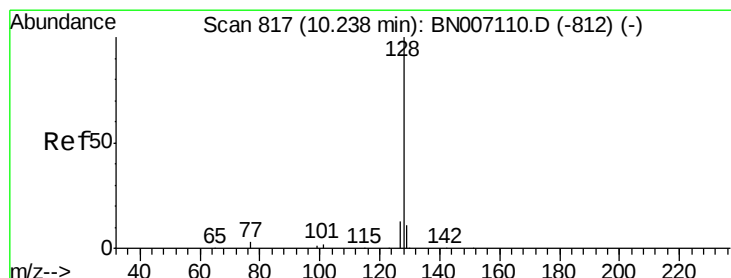
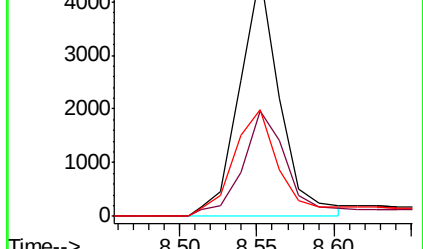
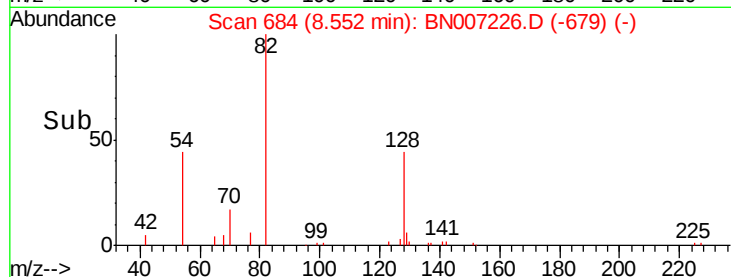


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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

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

Time-->



#8

Naphthalene

Concen: 0.052 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

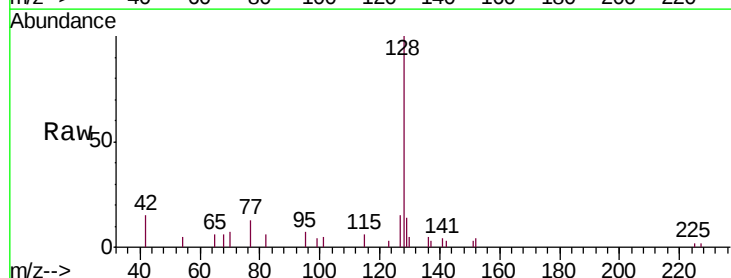
Tgt Ion: 128 Resp: 4587

Ion Ratio Lower Upper

128 100

129 14.1 9.4 14.2

127 15.3 11.0 16.6

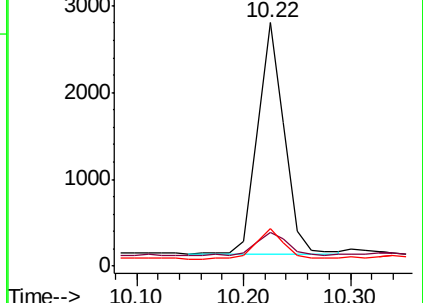
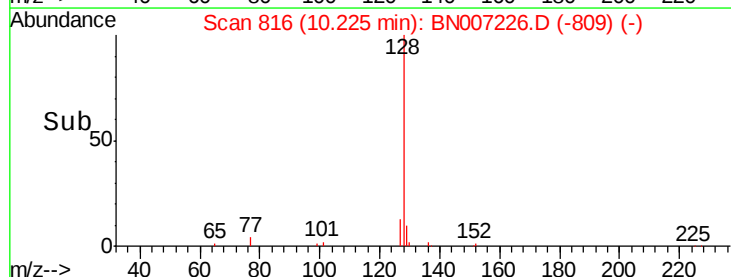


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

Time-->





#10

2-Methylnaphthalene-d10

Concen: 0.254 ng

RT: 11.78 min Scan# 978

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

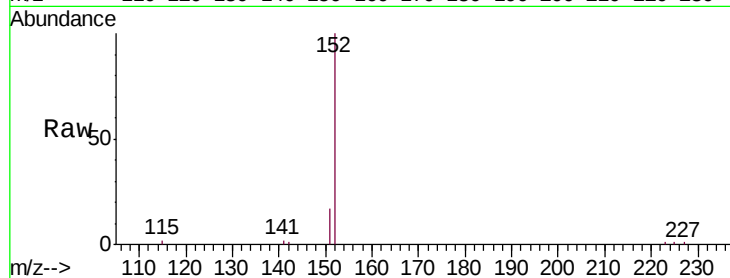
EXT-035-SW101-080619

Tgt Ion:152 Resp: 14780

Ion Ratio Lower Upper

152 100

151 19.5 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.78

10000

8000

6000

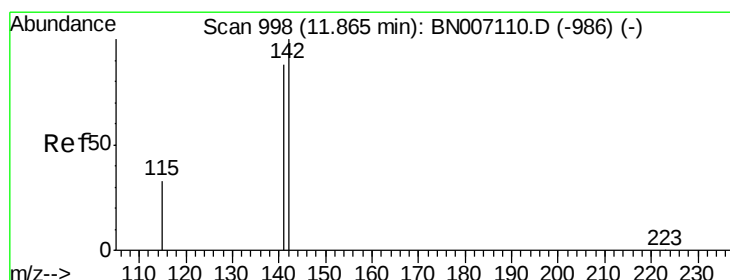
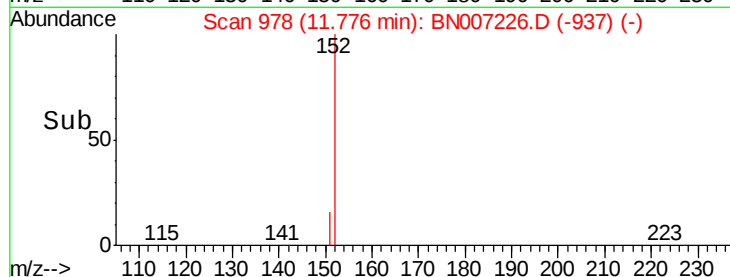
4000

2000

0

Time-->

11.70 11.80



#11

2-Methylnaphthalene

Concen: 0.079 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

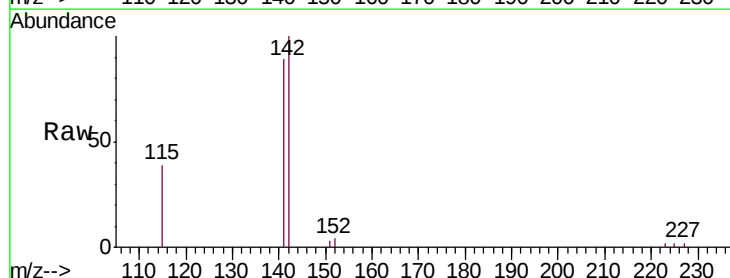
Tgt Ion:142 Resp: 4887

Ion Ratio Lower Upper

142 100

141 88.7 69.0 103.6

115 39.5 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.85

4000

3000

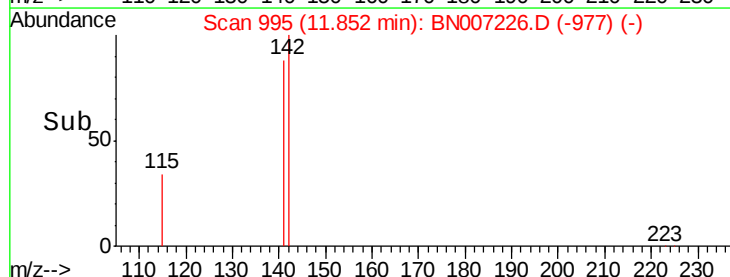
2000

1000

0

Time-->

11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.06 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

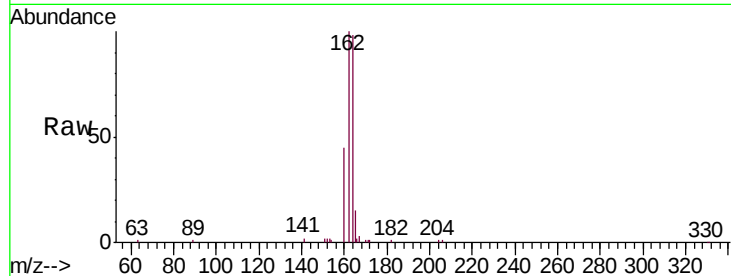
Tgt Ion:164 Resp: 18323

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.4

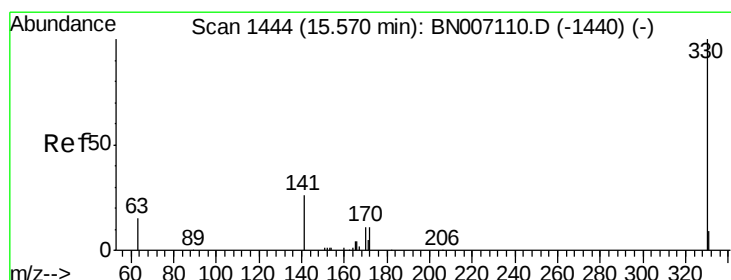
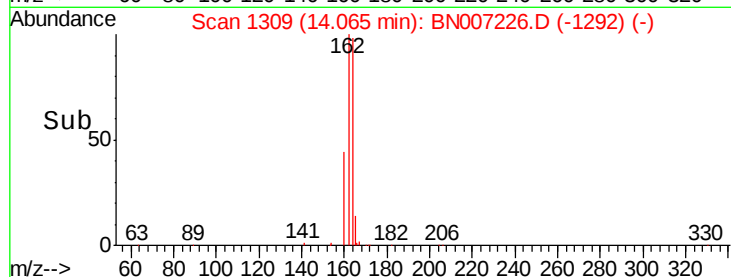
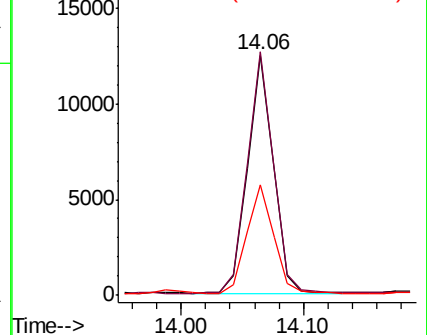
160 46.1 38.3 57.5



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: 0.246 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

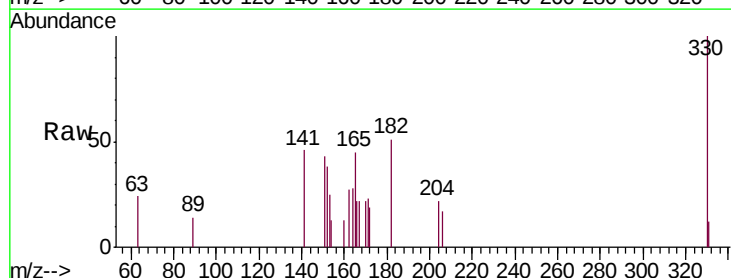
Tgt Ion:330 Resp: 2431

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

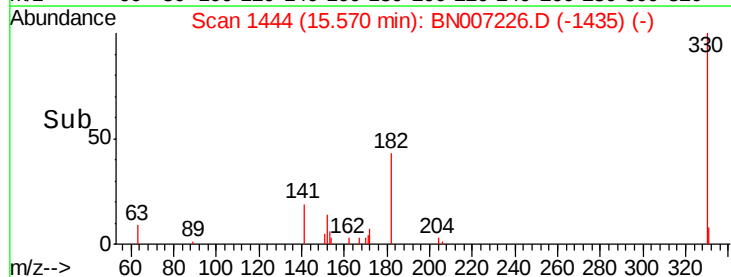
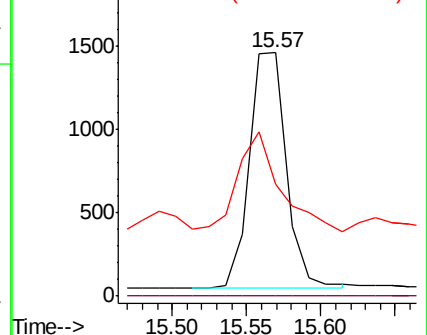
141 49.0 33.6 50.4

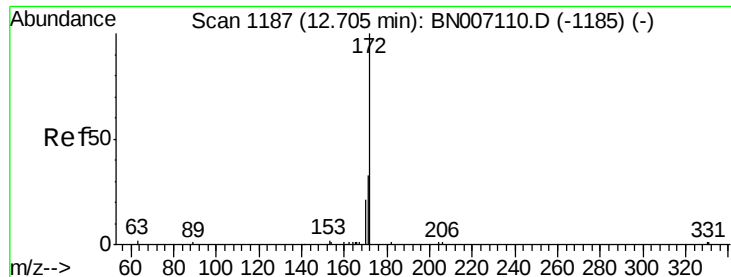


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

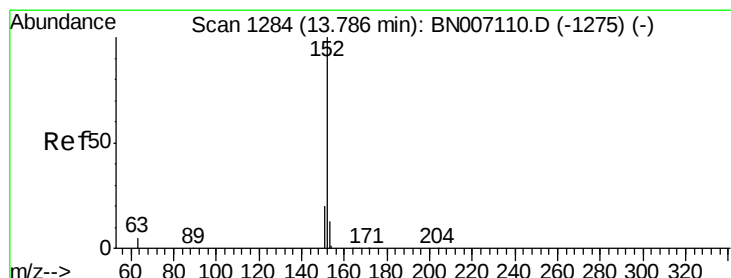
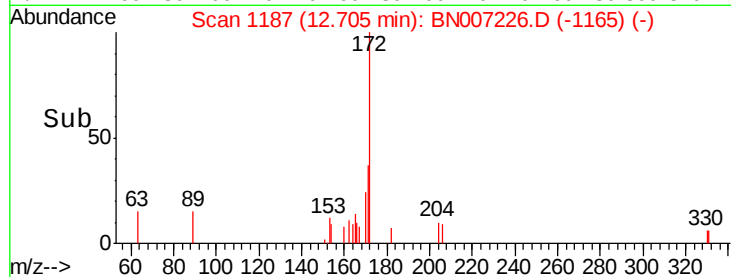
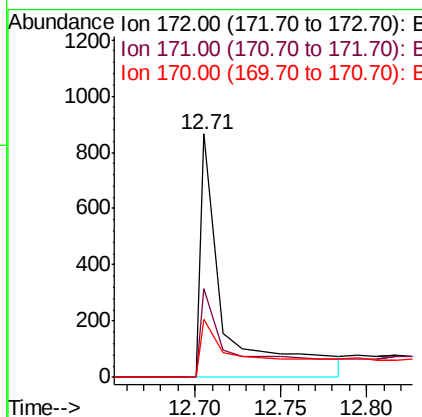
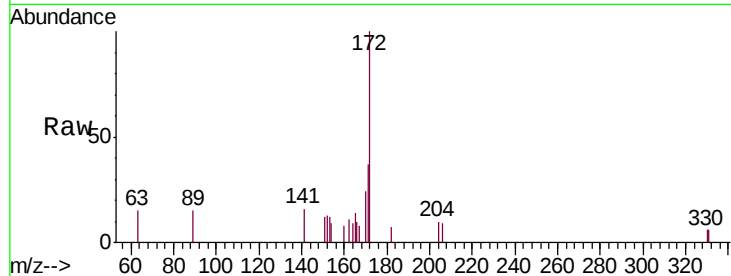




#14
2-Fluorobiphenyl
Concen: 0.033 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007226.D
Acq: 16 Aug 2019 17:00

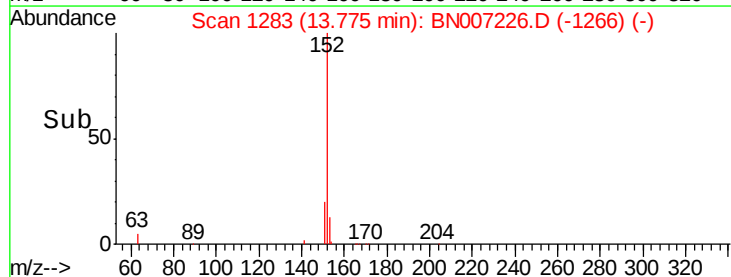
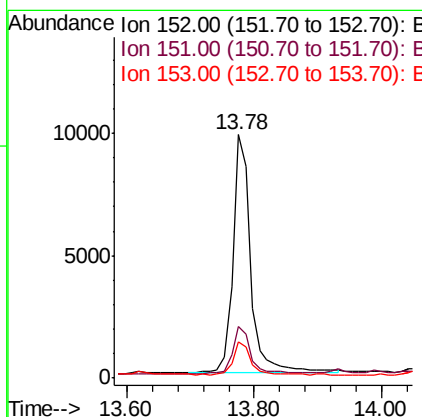
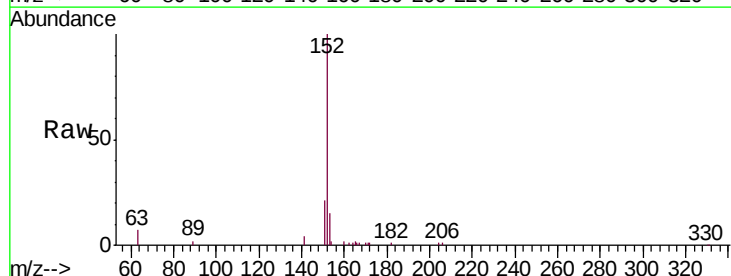
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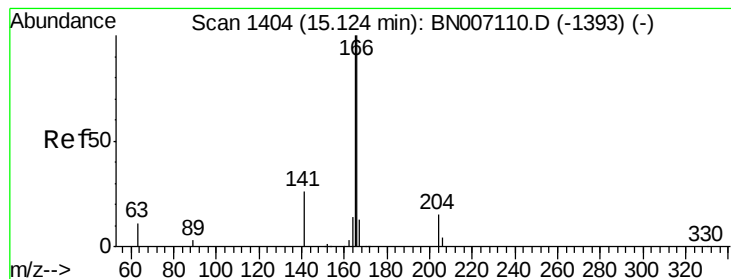
Tgt Ion:172 Resp: 888
Ion Ratio Lower Upper
172 100
171 36.6 26.3 39.5
170 23.6 17.0 25.4



#15
Acenaphthylene
Concen: 0.200 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007226.D
Acq: 16 Aug 2019 17:00

Tgt Ion:152 Resp: 19149
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.6
153 13.0 10.4 15.6





#17

Fluorene

Concen: 0.035 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

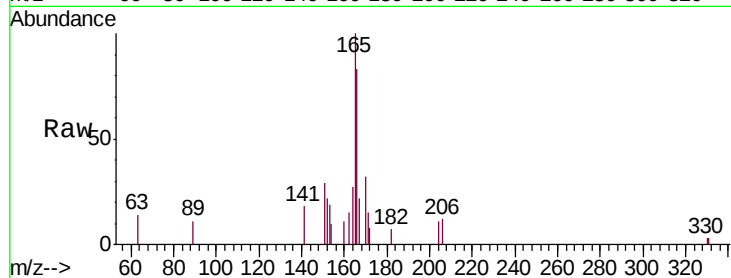
Tgt Ion:166 Resp: 3179

Ion Ratio Lower Upper

166 100

165 0.0 77.9 116.9#

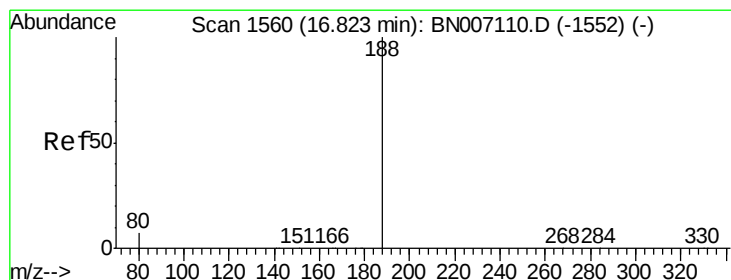
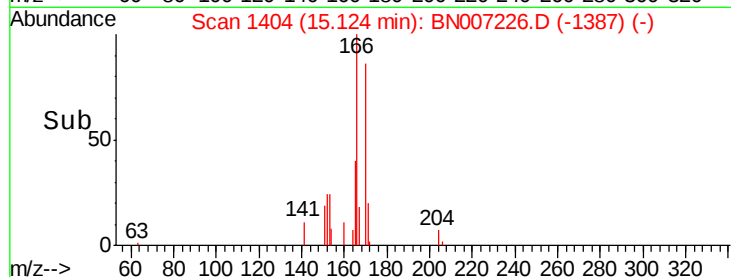
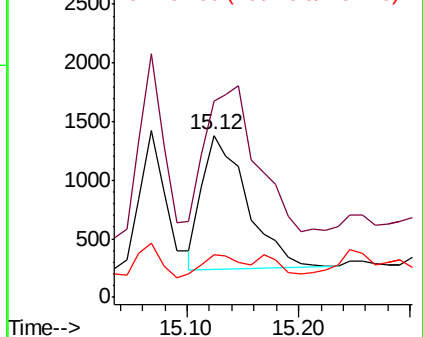
167 15.9 10.9 16.3



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: 16.81 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

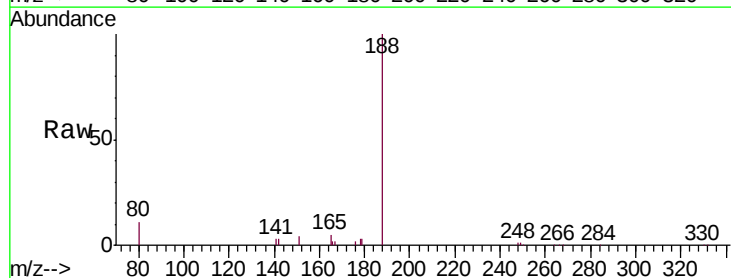
Tgt Ion:188 Resp: 42962

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

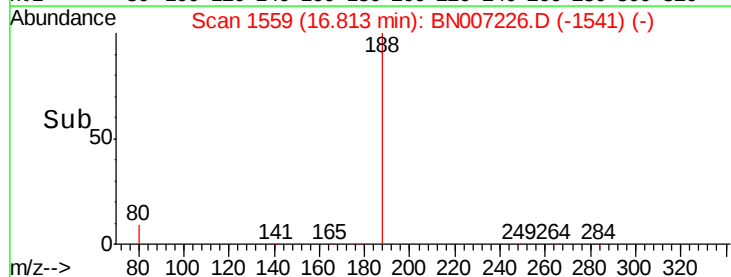
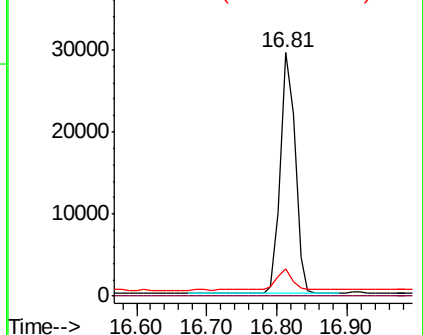
80 11.3 7.8 11.6

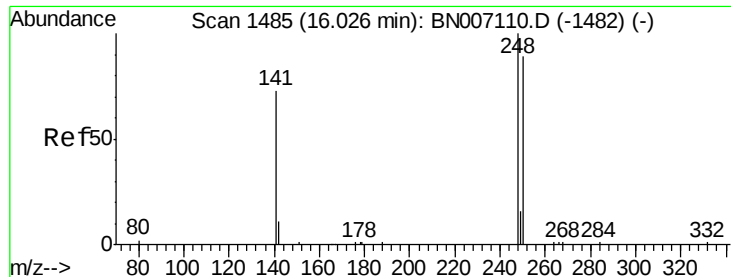


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#19

4-Bromophenyl-phenylether

Concen: 0.039 ng

RT: 16.02 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

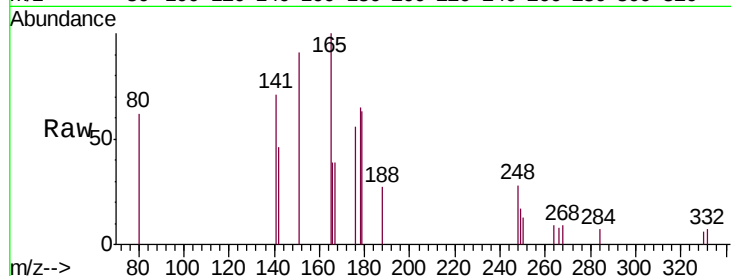
Tgt Ion:248 Resp: 1043

Ion Ratio Lower Upper

248 100

250 44.9 78.9 118.3#

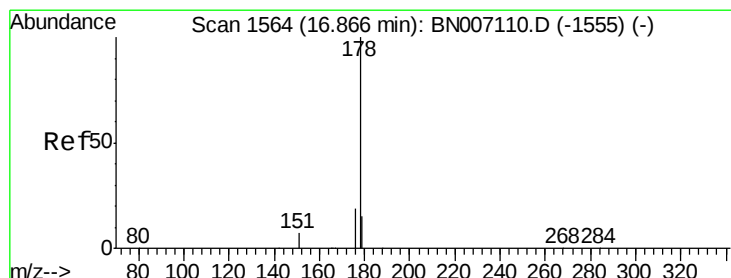
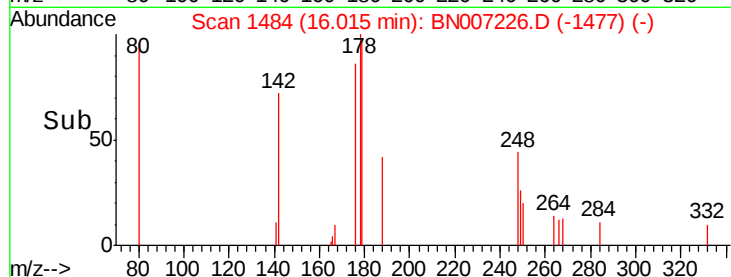
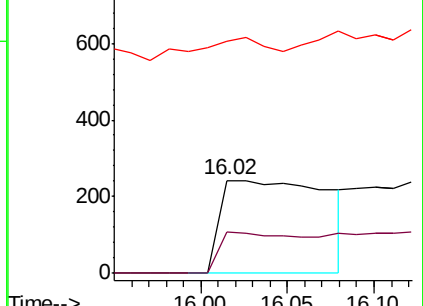
141 249.4 43.3 64.9#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#22

Phenanthrene

Concen: 0.318 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

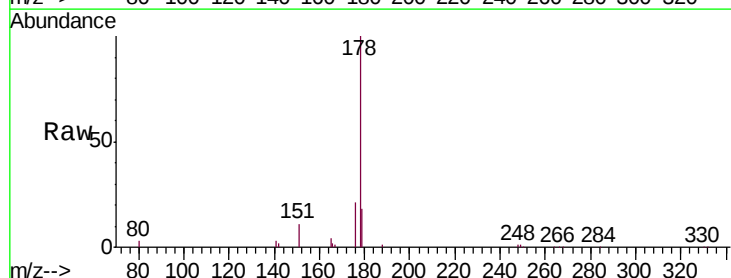
Tgt Ion:178 Resp: 40959

Ion Ratio Lower Upper

178 100

176 19.6 15.2 22.8

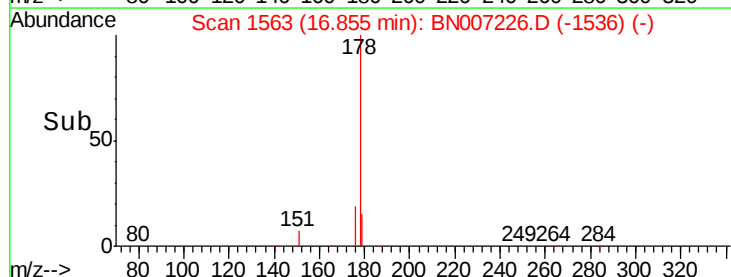
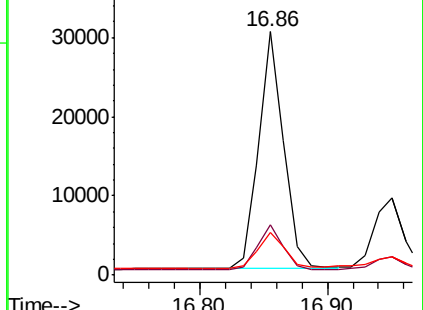
179 17.6 12.3 18.5



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: 0.115 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

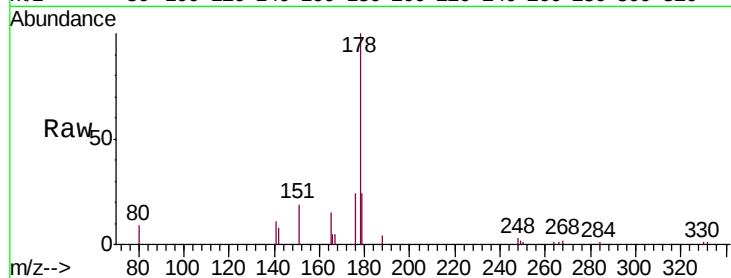
Tgt Ion:178 Resp: 13578

Ion Ratio Lower Upper

178 100

176 19.9 14.6 21.8

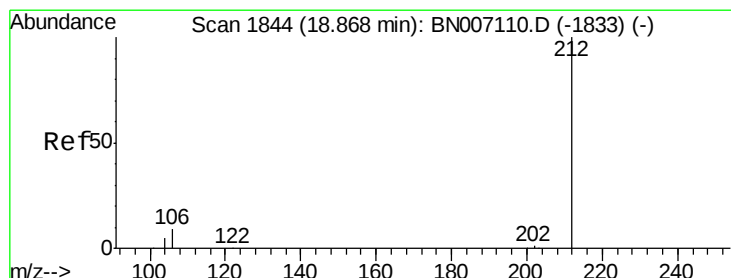
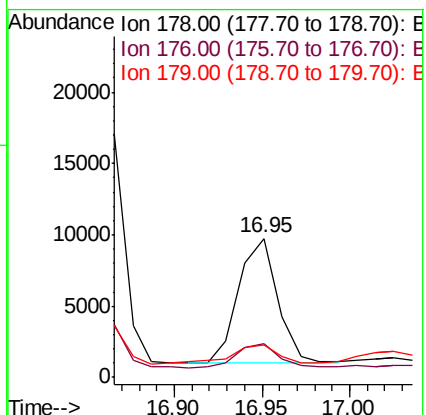
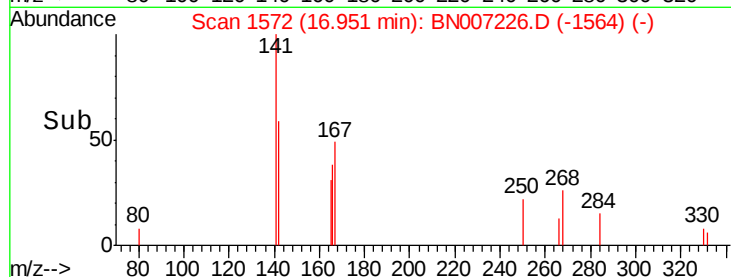
179 16.9 12.5 18.7



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: 0.220 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

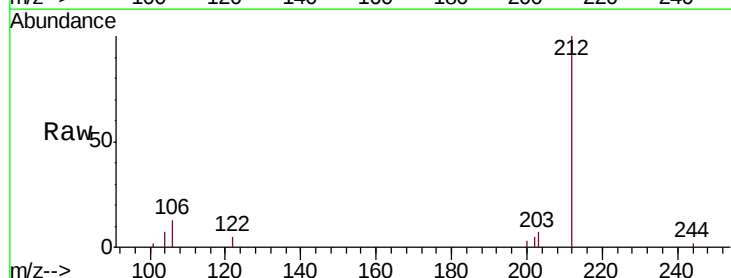
Tgt Ion:212 Resp: 33449

Ion Ratio Lower Upper

212 100

106 10.7 8.2 12.2

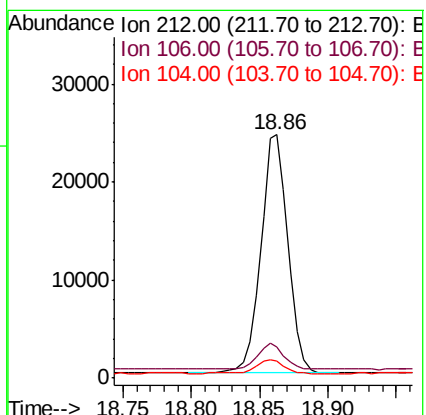
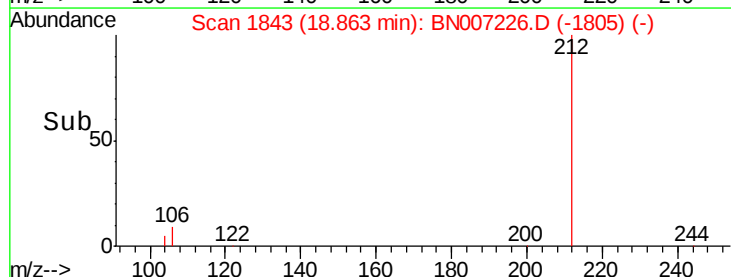
104 6.0 4.5 6.7

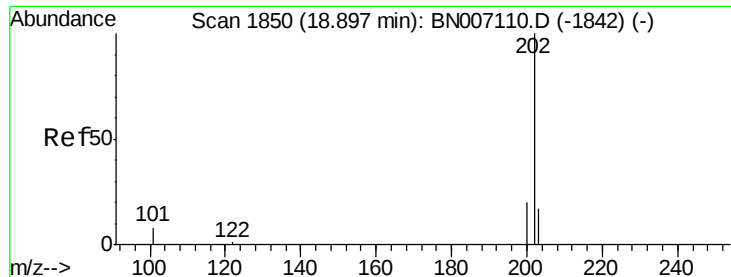


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.385 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

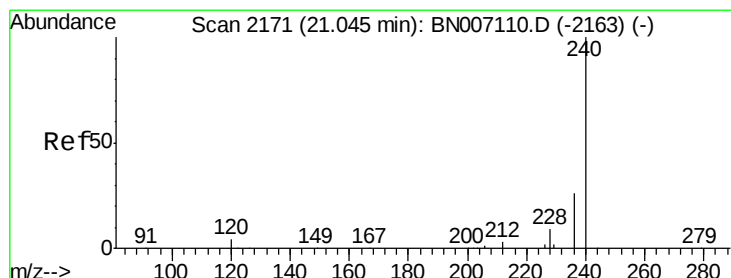
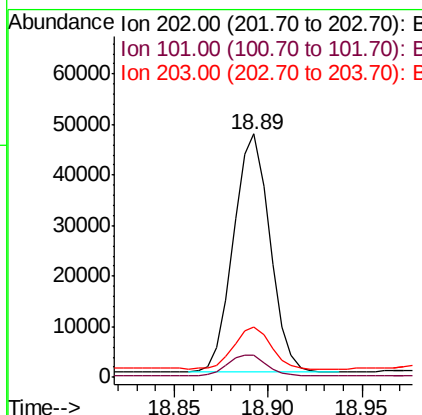
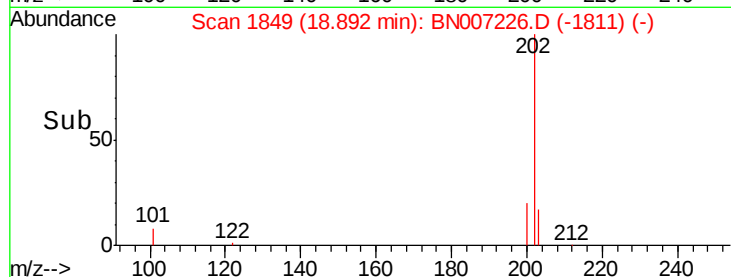
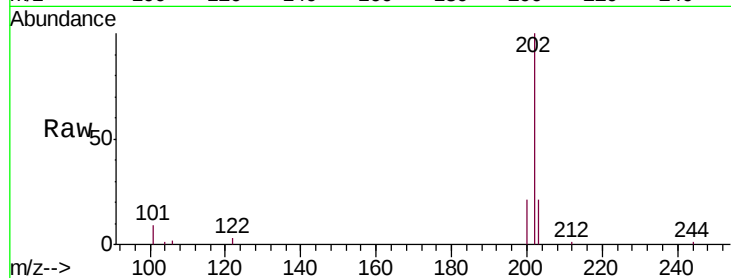
Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

Tgt Ion:	202	Resp:	63357
Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.0	10.4
203	17.8	13.8	20.8



#26

Chrysene-d12

Concen: 0.400 ng

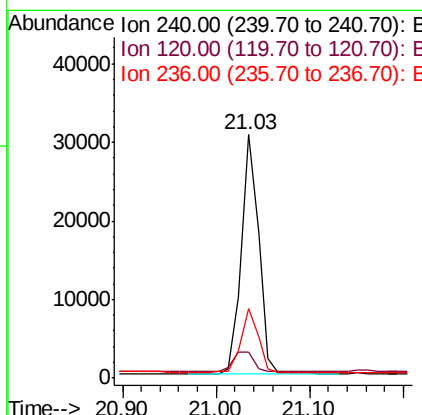
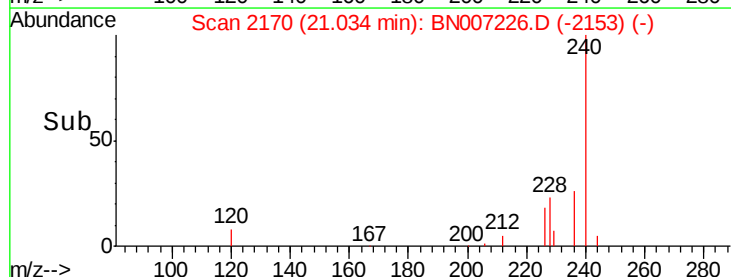
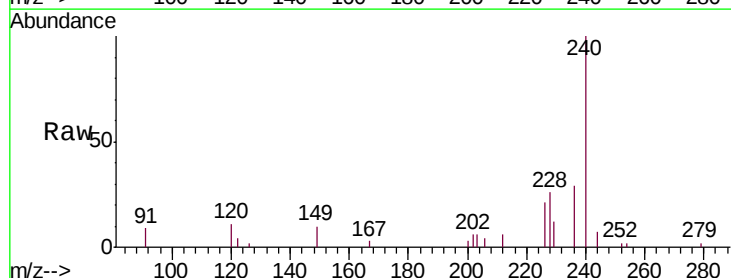
RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Tgt Ion:	240	Resp:	39102
Ion	Ratio	Lower	Upper
240	100		
120	10.6	4.0	6.0#
236	28.7	21.3	31.9

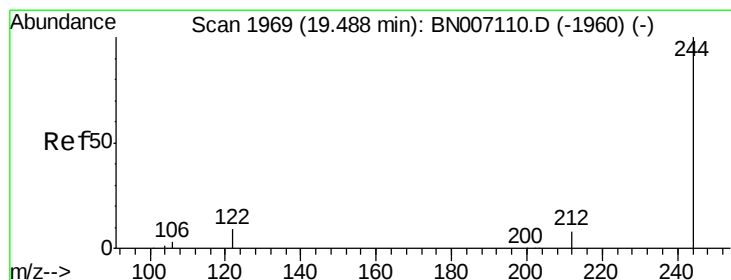
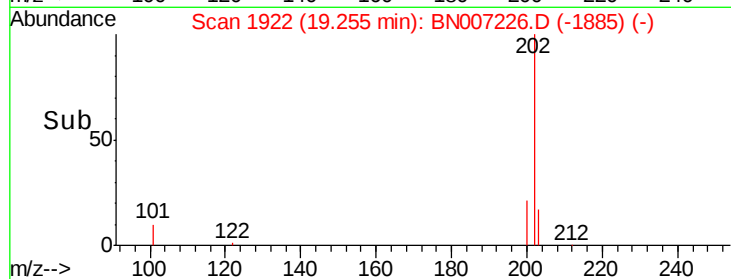
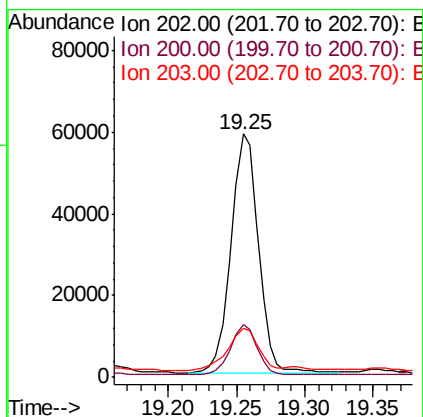
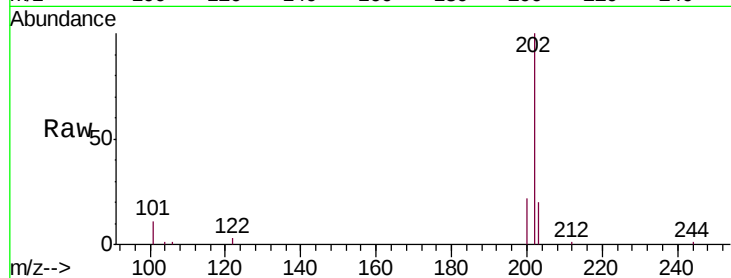




#27
 Pyrene
 Concen: 0.590 ng
 RT: 19.25 min Scan# 1922
 Delta R.T. -0.02 min
 Lab File: BN007226.D
 Acq: 16 Aug 2019 17:00

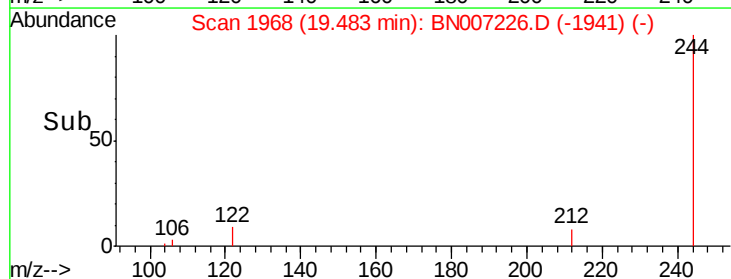
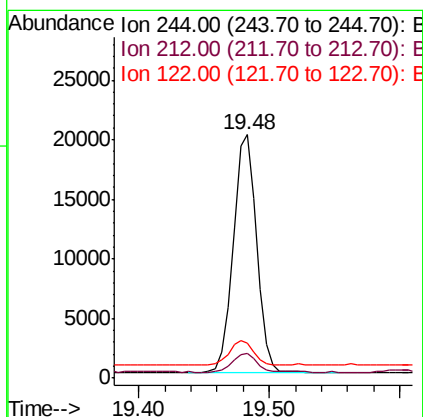
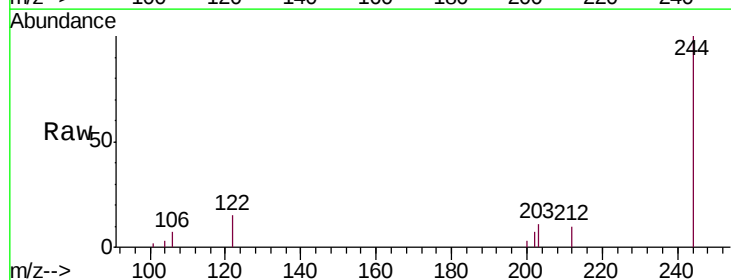
Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW101-080619

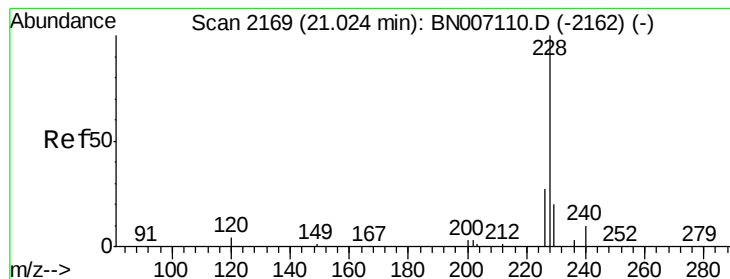
Tgt Ion:	202	Resp:	80927
Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	20.2	14.0	21.0



#28
 Terphenyl-d14
 Concen: 0.235 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.02 min
 Lab File: BN007226.D
 Acq: 16 Aug 2019 17:00

Tgt Ion:	244	Resp:	25037
Ion	Ratio	Lower	Upper
244	100		
212	10.1	6.2	9.2#
122	14.6	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 0.276 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

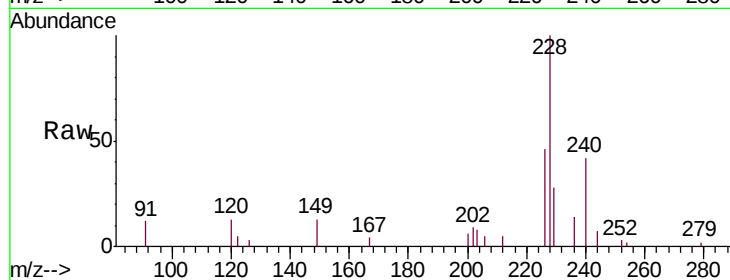
Tgt Ion:228 Resp: 39451

Ion Ratio Lower Upper

228 100

226 45.6 21.8 32.6#

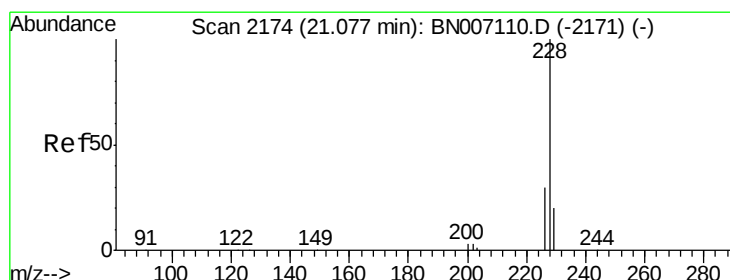
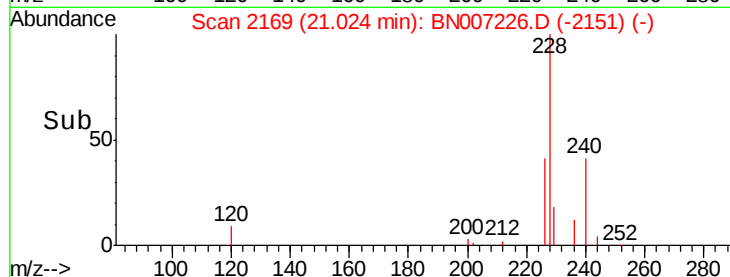
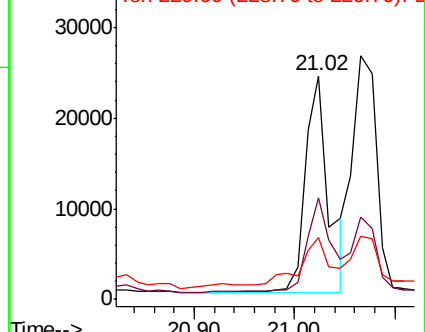
229 27.7 15.6 23.4#



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: 0.310 ng

RT: 21.07 min Scan# 2173

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

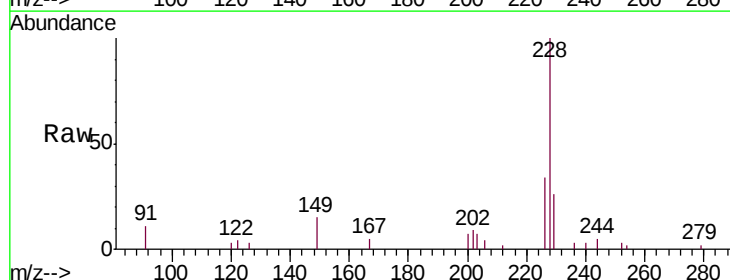
Tgt Ion:228 Resp: 43119

Ion Ratio Lower Upper

228 100

226 33.7 23.8 35.6

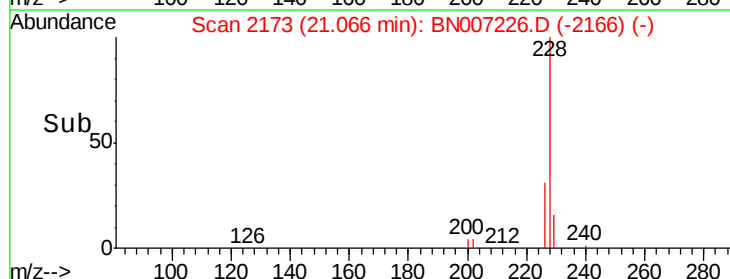
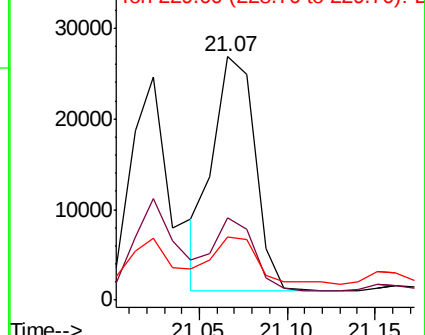
229 26.1 15.7 23.5#



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: 0.205 ng

RT: 25.22 min Scan# 3122

Delta R.T. -0.03 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

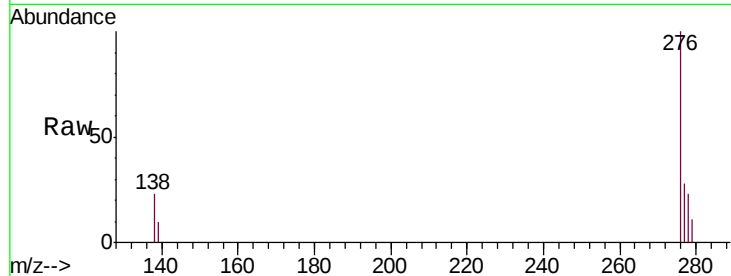
Tgt Ion:276 Resp: 31400

Ion Ratio Lower Upper

276 100

138 18.8 16.0 24.0

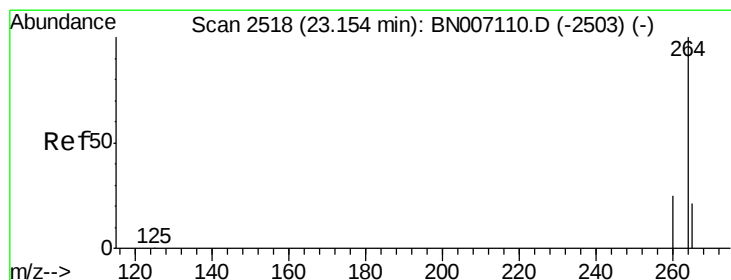
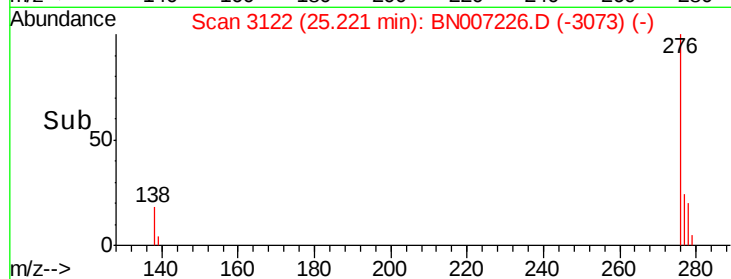
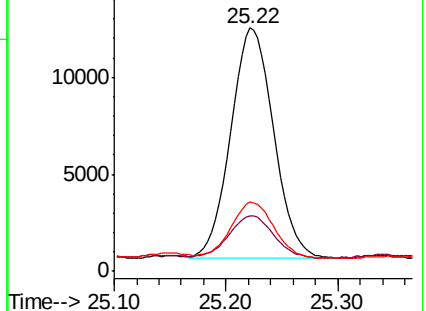
277 25.1 19.9 29.9



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: 23.15 min Scan# 2517

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

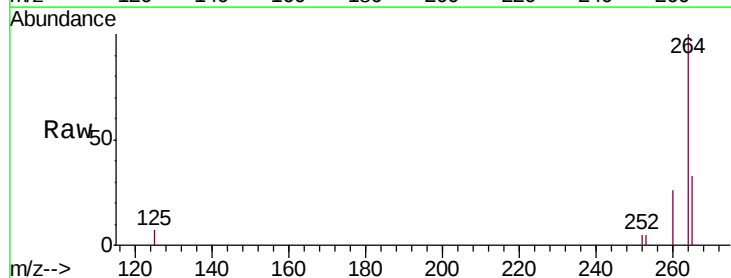
Tgt Ion:264 Resp: 43147

Ion Ratio Lower Upper

264 100

260 26.0 19.8 29.8

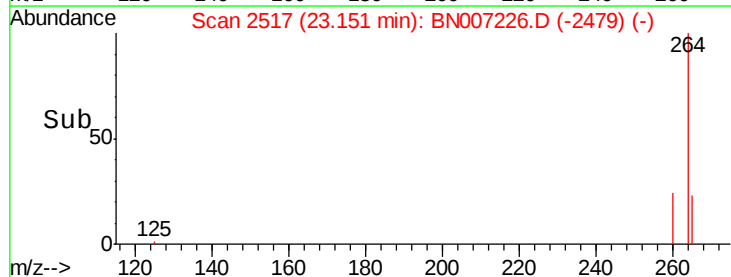
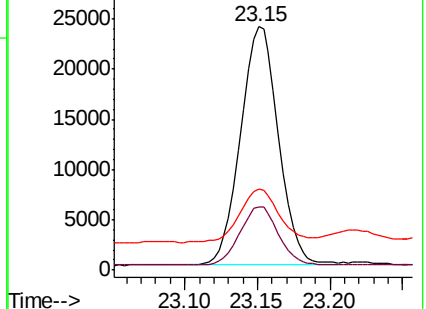
265 33.5 26.2 39.4



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: 0.379 ng

RT: 22.53 min Scan# 2336

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

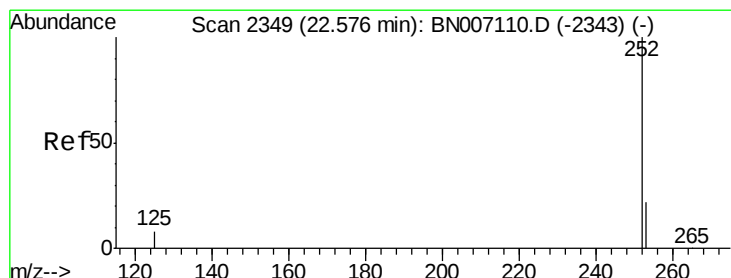
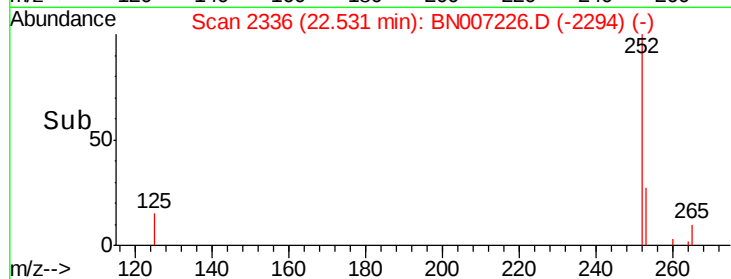
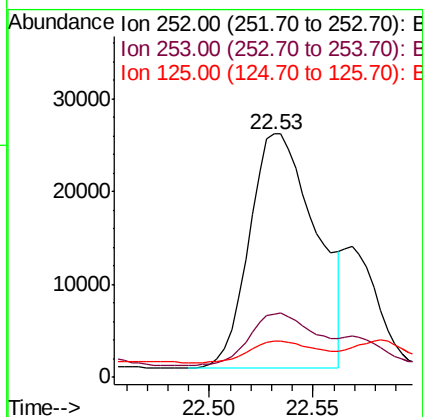
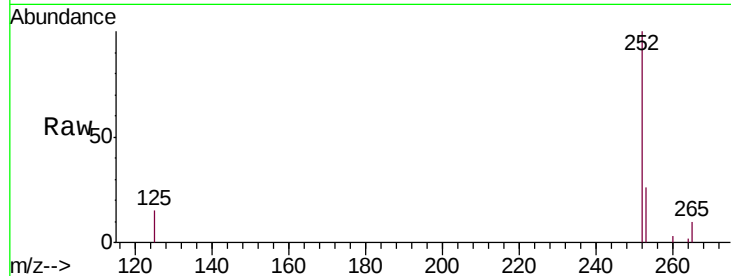
Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

Tgt Ion:	252	Resp:	56034
Ion Ratio	Lower	Upper	
252	100		
253	26.1	18.2	27.2
125	14.8	7.4	11.0#



#34

Benzo(k)fluoranthene

Concen: 0.383 ng

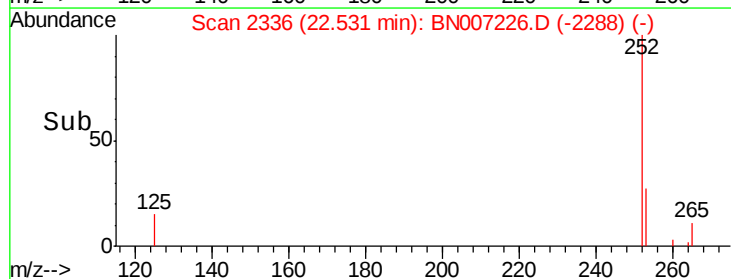
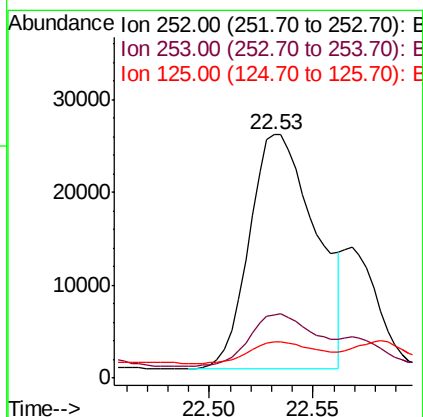
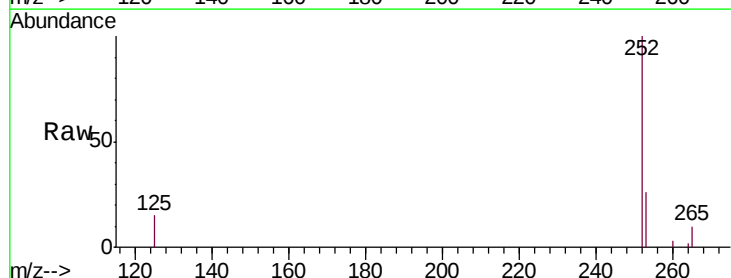
RT: 22.53 min Scan# 2336

Delta R.T. -0.06 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Tgt Ion:	252	Resp:	56034
Ion Ratio	Lower	Upper	
252	100		
253	26.1	18.1	27.1
125	14.8	7.4	11.0#





#35

Benzo(a)pyrene

Concen: 0.259 ng

RT: 23.06 min Scan# 2490

Delta R.T. -0.02 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619

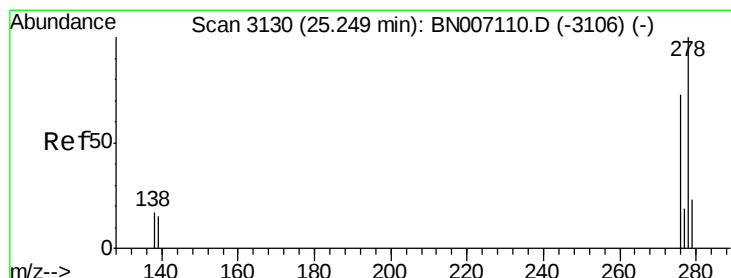
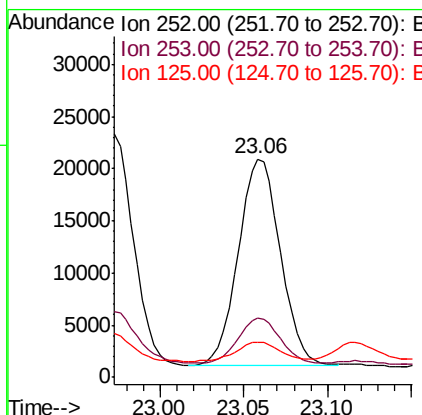
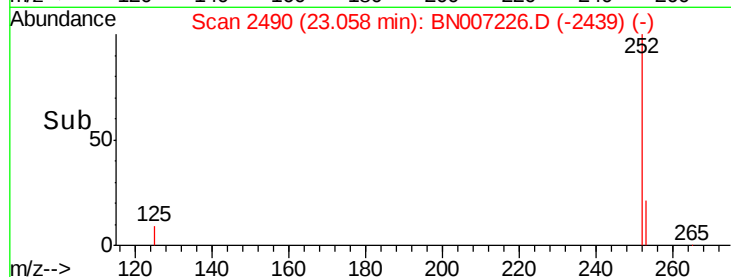
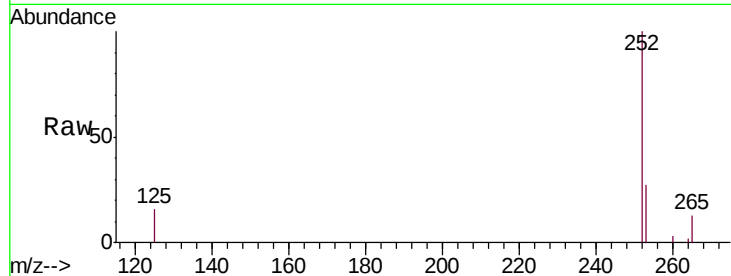
Tgt Ion: 252 Resp: 34740

Ion Ratio Lower Upper

252 100

253 27.0 18.5 27.7

125 15.9 8.2 12.4#



#36

Dibenzo(a,h)anthracene

Concen: 0.061 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007226.D

Acq: 16 Aug 2019 17:00

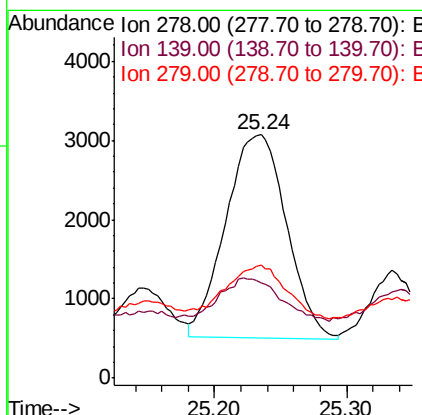
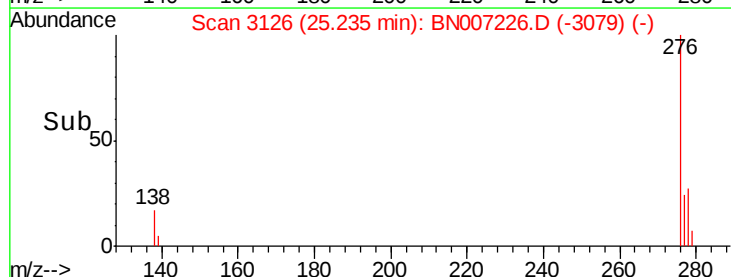
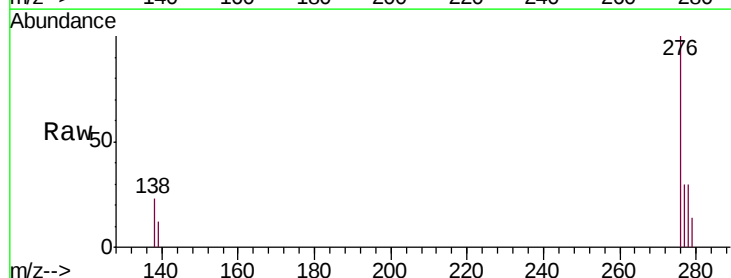
Tgt Ion: 278 Resp: 8226

Ion Ratio Lower Upper

278 100

139 39.0 11.3 16.9#

279 46.5 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 0.263 ng

RT: 25.85 min Scan# 3306

Delta R.T. -0.03 min

Lab File: BN007226.D

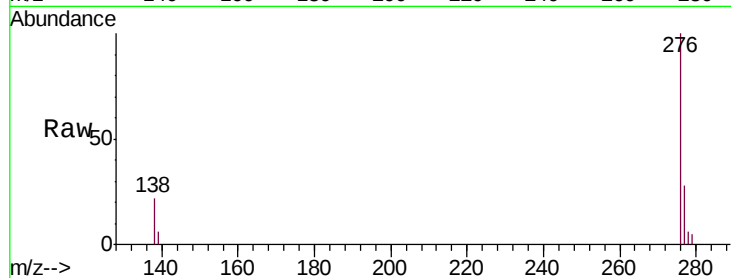
Acq: 16 Aug 2019 17:00

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW101-080619



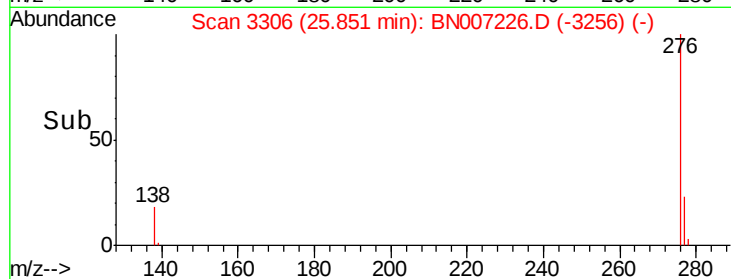
Tgt Ion: 276 Resp: 36172

Ion Ratio Lower Upper

276 100

277 27.5 19.8 29.8

138 22.3 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

