

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007124.D
 Acq On : 13 Aug 2019 10:31
 Operator : HP/JU
 Sample : K4239-11
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 12:15:33 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	9208	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	35590	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20219	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47416	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48020	0.40	ng	-0.01
32) Perylene-d12	23.16	264	52843	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6145	0.28	ng	0.00
4) Phenol-d6	6.62	99	8407	0.31	ng	0.00
7) Nitrobenzene-d5	8.56	82	6739	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14468	0.22	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2471	0.23	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3949	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	31820	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	23543	0.18	ng	0.00

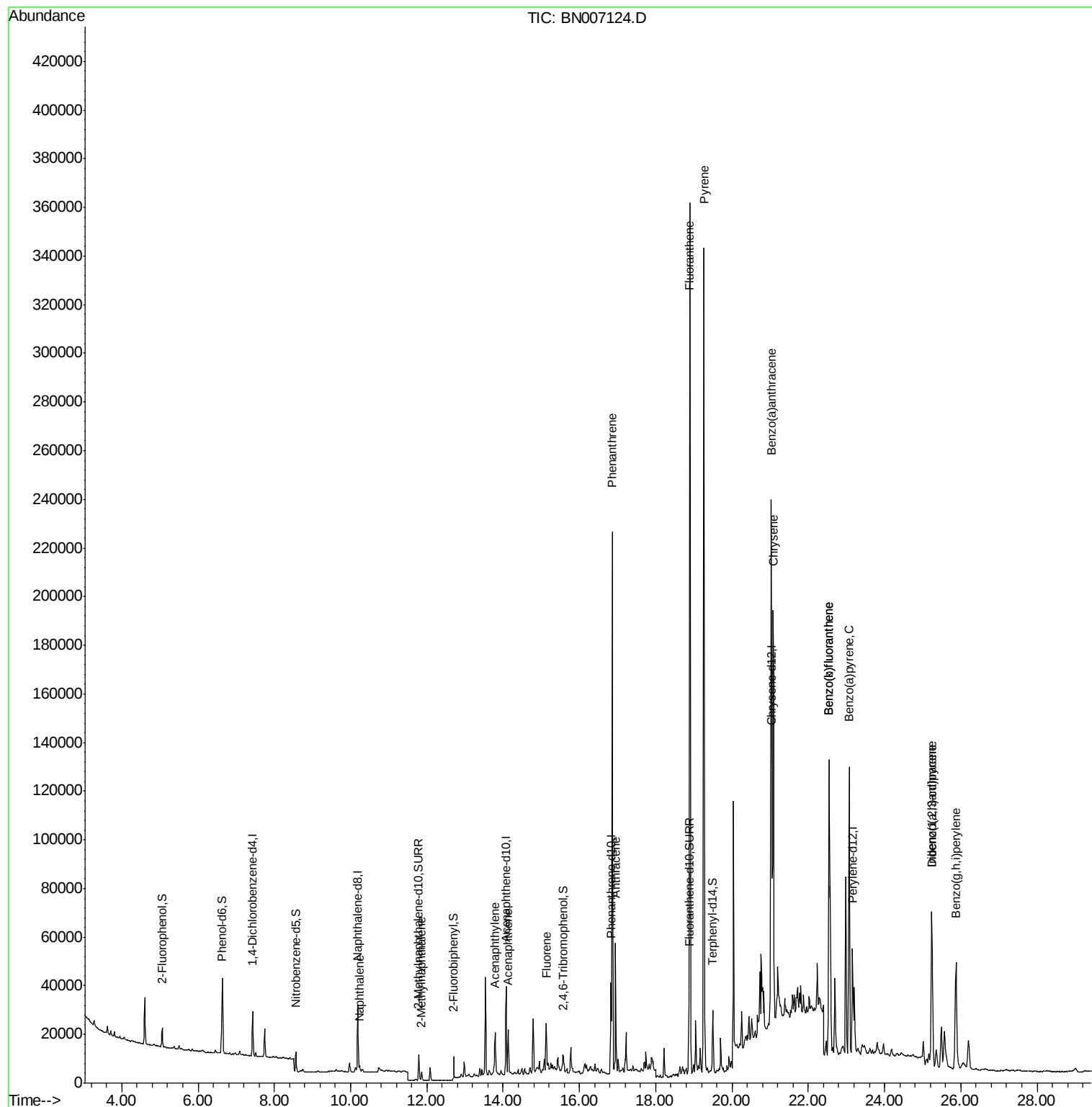
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	3347	0.034	ng	# 86
11) 2-Methylnaphthalene	11.86	142	2632	0.037	ng	# 85
15) Acenaphthylene	13.79	152	33497	0.317	ng	97
16) Acenaphthene	14.13	154	10925	0.161	ng	95
17) Fluorene	15.14	166	15832	0.156	ng	90
22) Phenanthrene	16.87	178	220626	1.553	ng	100
23) Anthracene	16.95	178	58472	0.450	ng	# 95
25) Fluoranthene	18.90	202	333740	1.836	ng	100
27) Pyrene	19.26	202	305033	1.811	ng	# 95
29) Benzo(a)anthracene	21.03	228	189171	1.077	ng	# 87
30) Chrysene	21.08	228	155283	0.910	ng	92
31) Indeno(1,2,3-cd)pyrene	25.24	276	95595	0.508	ng	99
33) Benzo(b)fluoranthene	22.54	252	204347	1.128	ng	97
34) Benzo(k)fluoranthene	22.54	252	204347	1.142	ng	96
35) Benzo(a)pyrene	23.07	252	149691	0.911	ng	98
36) Dibenzo(a,h)anthracene	25.25	278	26389	0.161	ng	# 74
37) Benzo(a,h,i)perylene	25.87	276	89370	0.530	ng	97

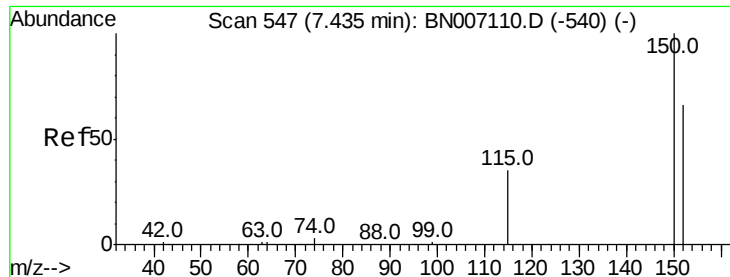
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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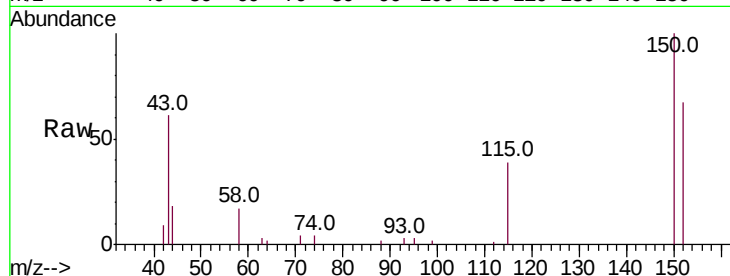


#1

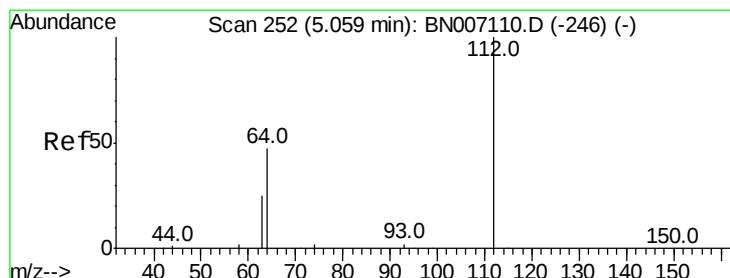
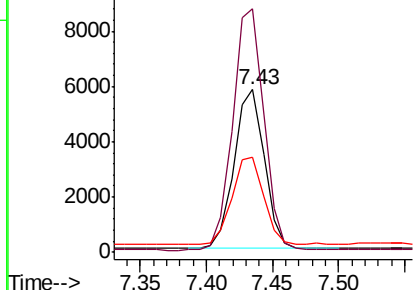
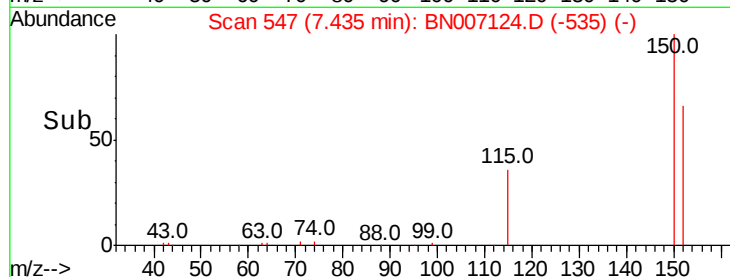
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9208
Ion Ratio Lower Upper
152 100
150 149.5 121.7 182.5
115 58.2 46.2 69.4



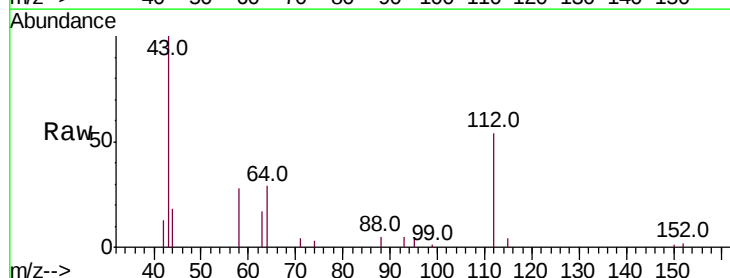
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



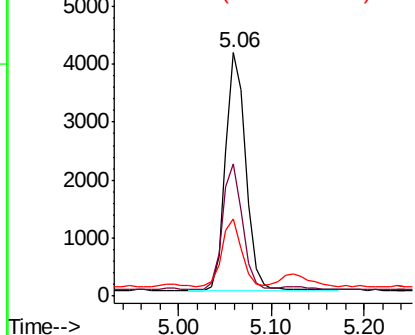
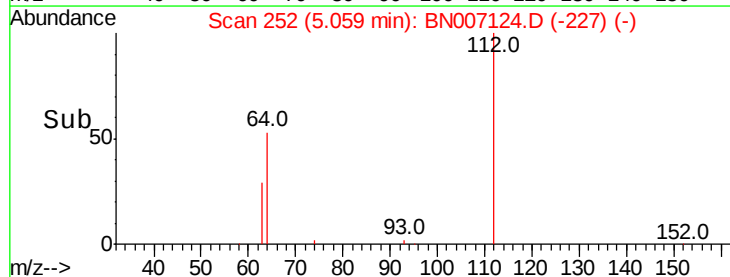
#3

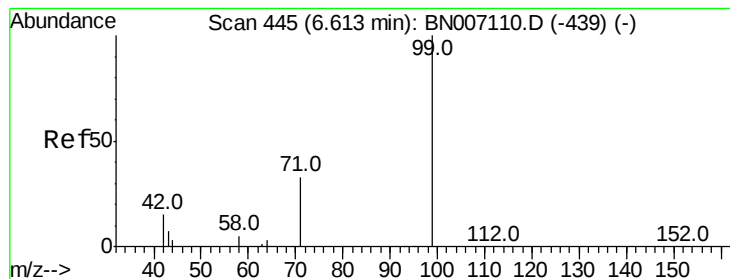
2-Fluorophenol
Concen: 0.278 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Tgt Ion:112 Resp: 6145
Ion Ratio Lower Upper
112 100
64 52.0 42.6 63.8
63 27.7 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.307 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

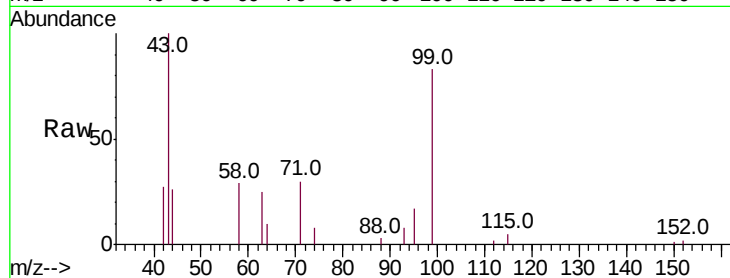
Tot Ion: 99 Resp: 8407

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

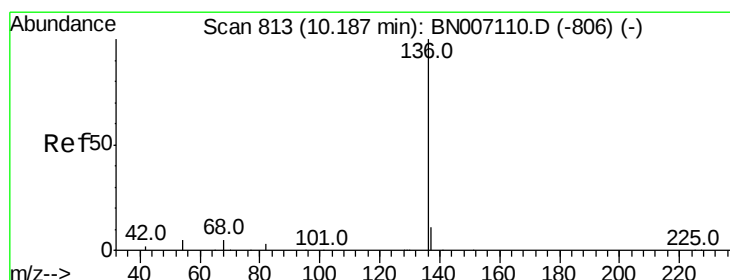
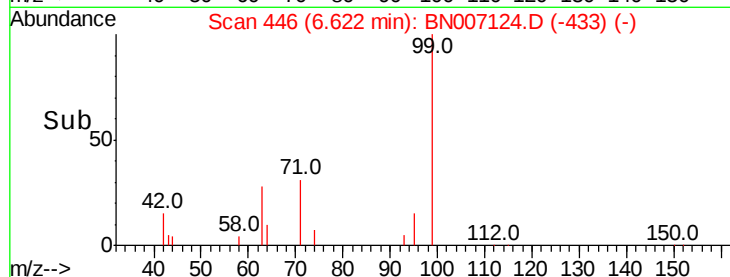
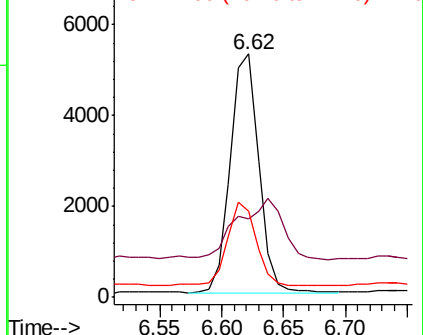
71 35.9 27.0 40.4



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

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

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



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Tgt Ion: 136 Resp: 35590

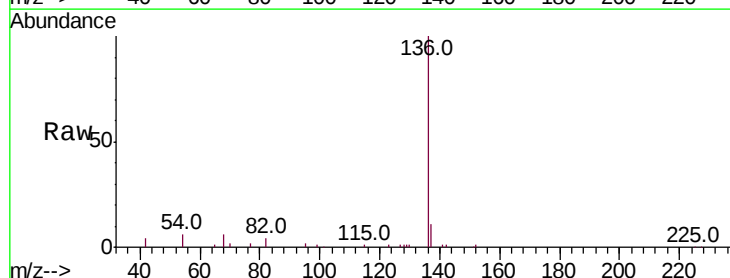
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.2 6.6 9.8#

68 5.9 6.0 9.0#

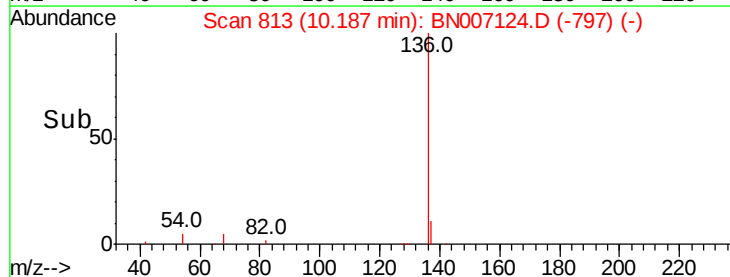
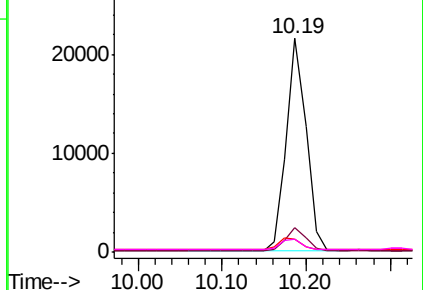


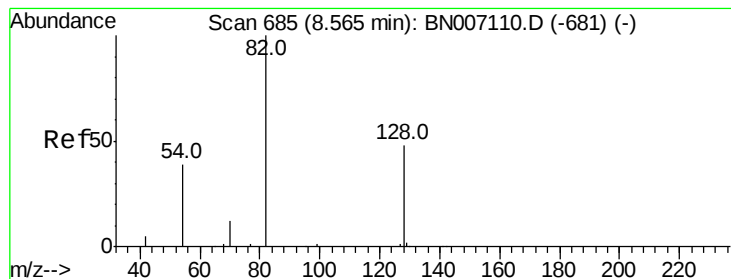
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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

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

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





#7

Nitrobenzene-d5

Concen: 0.235 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

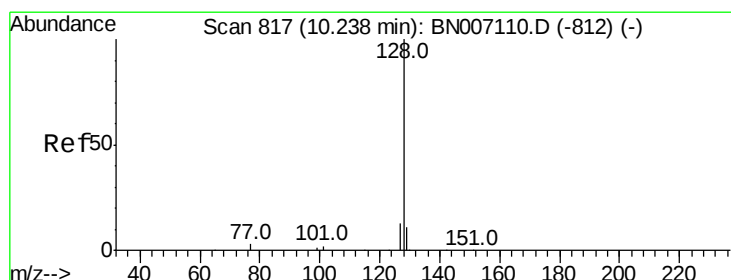
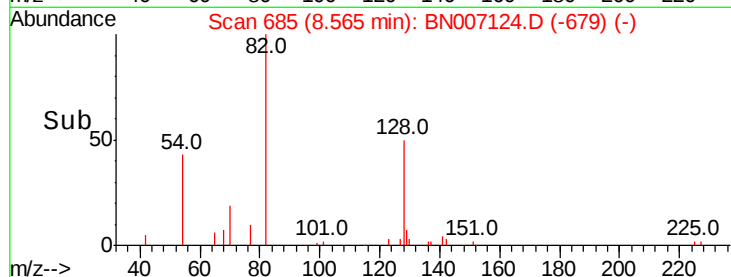
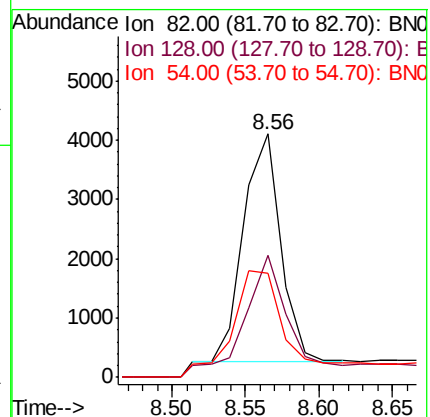
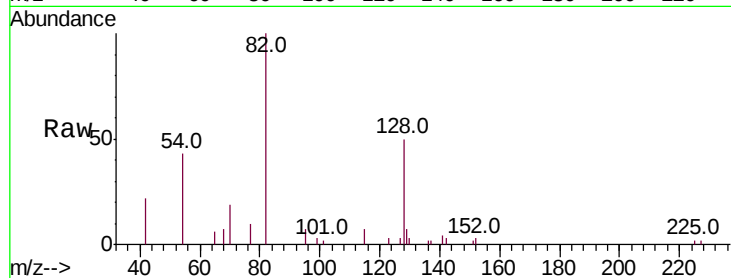
Tot Ion: 82 Resp: 6739

Ion Ratio Lower Upper

82 100

128 50.3 34.6 51.8

54 42.9 36.2 54.4



#8

Naphthalene

Concen: 0.034 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

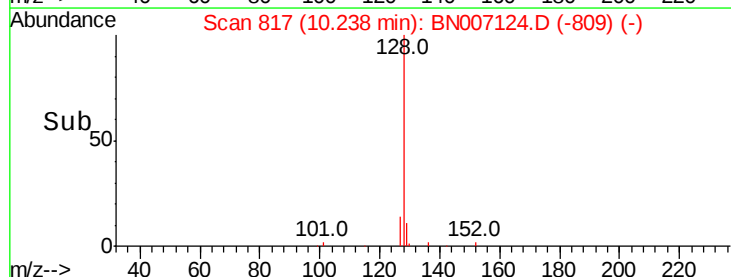
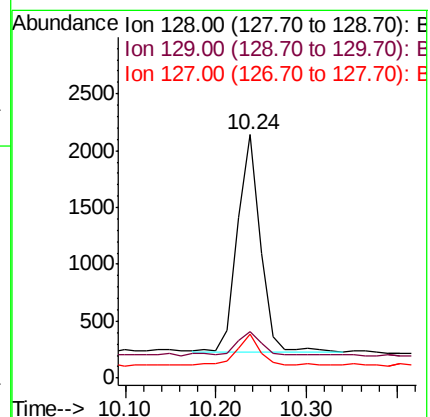
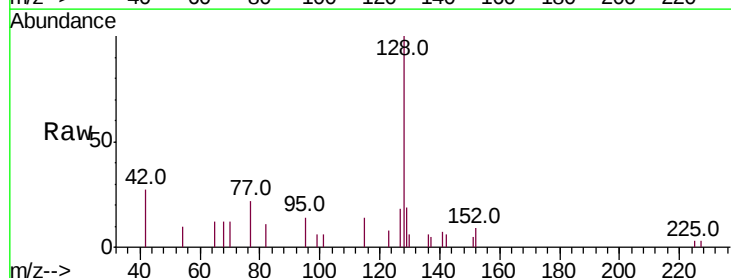
Tgt Ion: 128 Resp: 3347

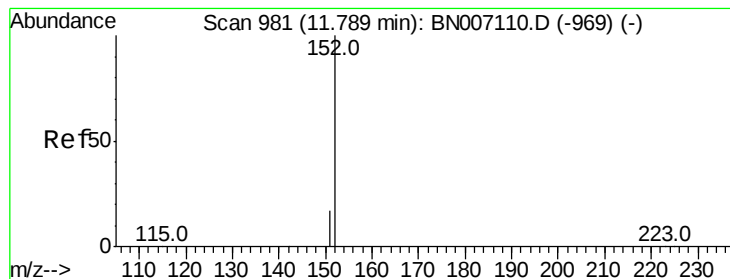
Ion Ratio Lower Upper

128 100

129 19.1 9.4 14.2#

127 17.8 11.0 16.6#





#10

2-Methylnaphthalene-d10

Concen: 0.218 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

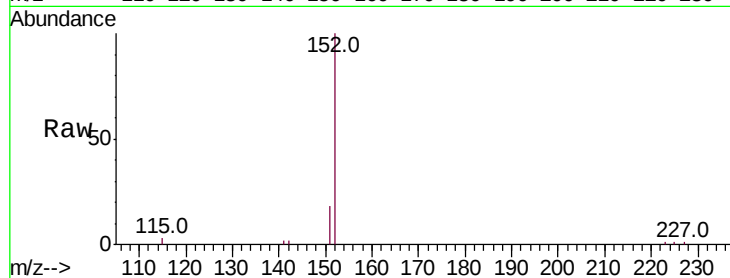
ClientSampleId :

Tot Ion:152 Resp: 14468

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

10000

8000

6000

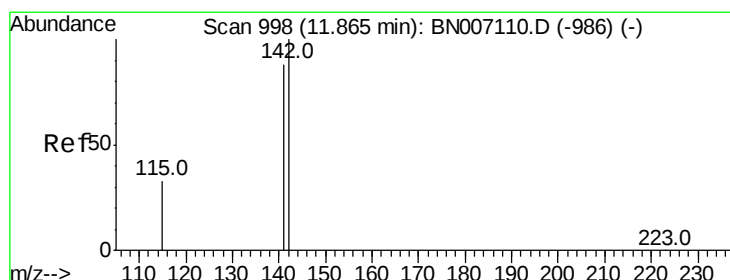
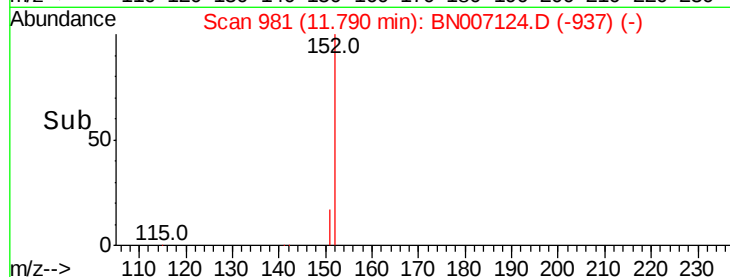
4000

2000

0

Time-->

11.70 11.80 11.90



#11

2-Methylnaphthalene

Concen: 0.037 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

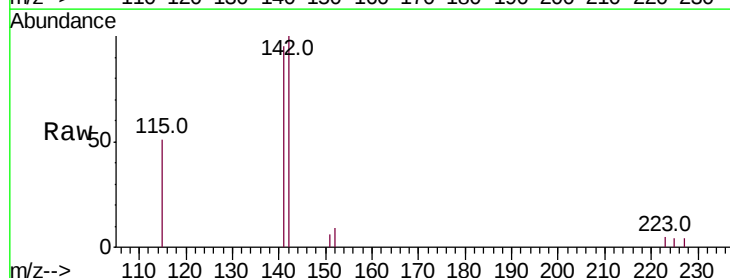
Tgt Ion:142 Resp: 2632

Ion Ratio Lower Upper

142 100

141 94.6 69.0 103.6

115 50.7 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

2000

1500

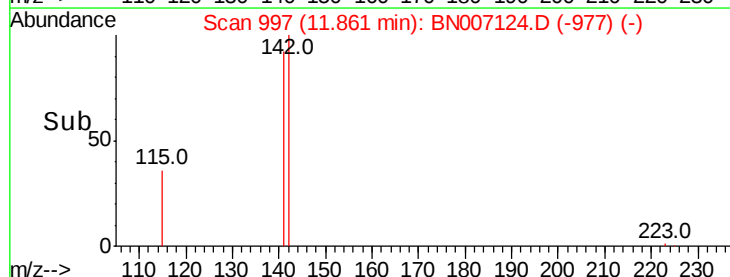
1000

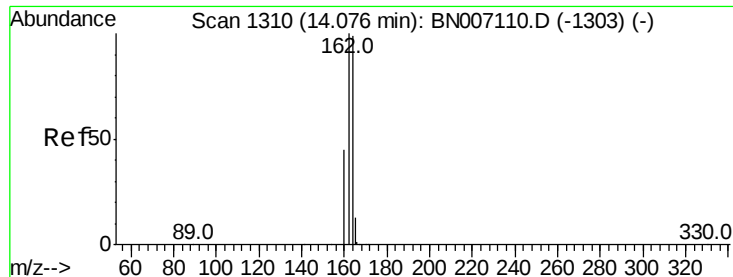
500

0

Time-->

11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

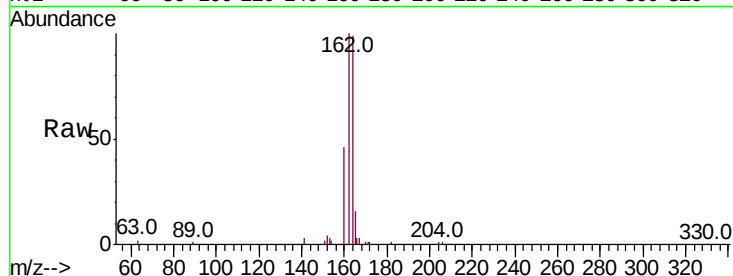
Tot Ion:164 Resp: 20219

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.4

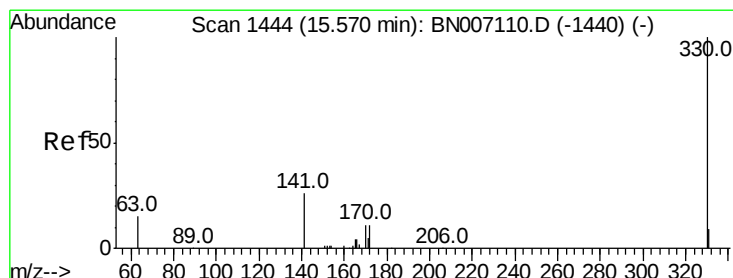
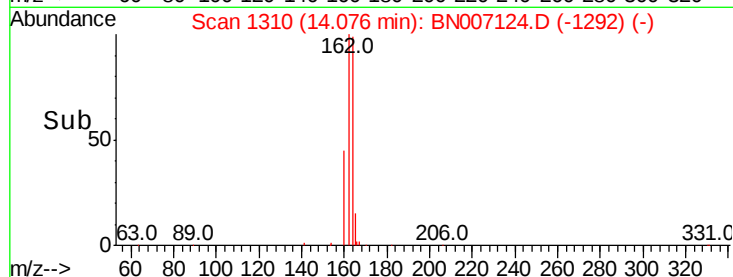
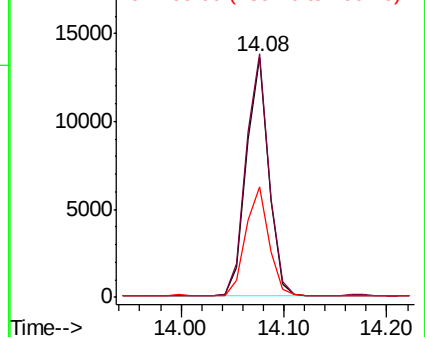
160 46.3 38.3 57.5



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: 0.227 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

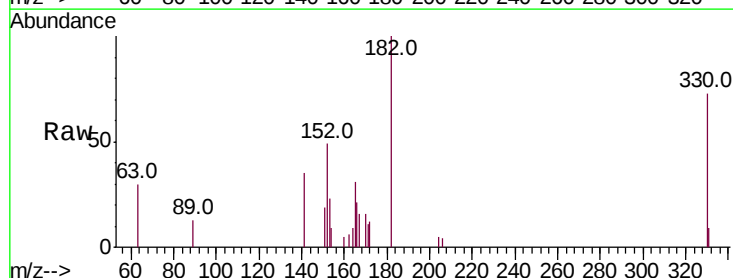
Tgt Ion:330 Resp: 2471

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

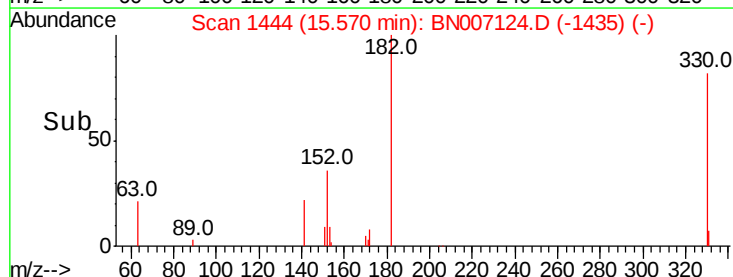
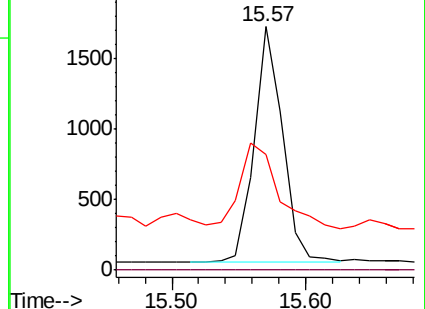
141 48.6 33.6 50.4

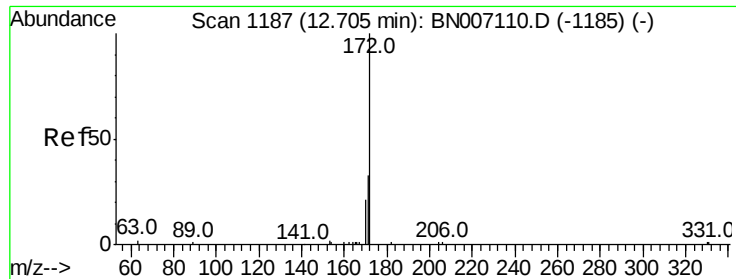


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

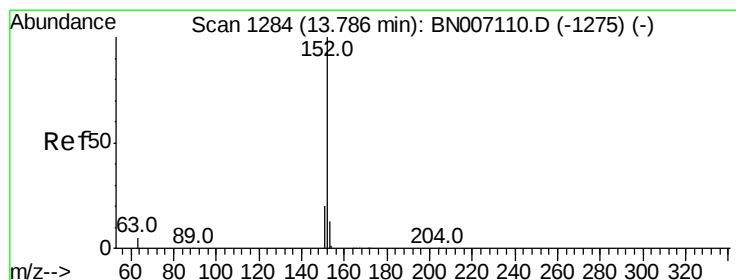
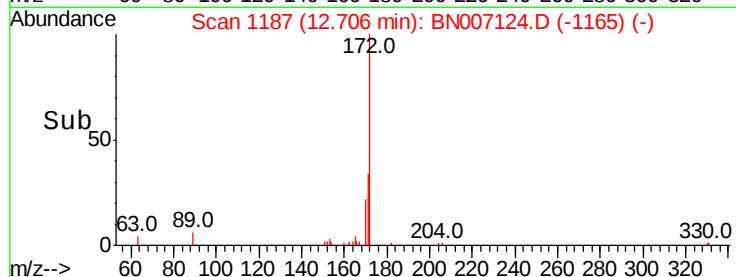
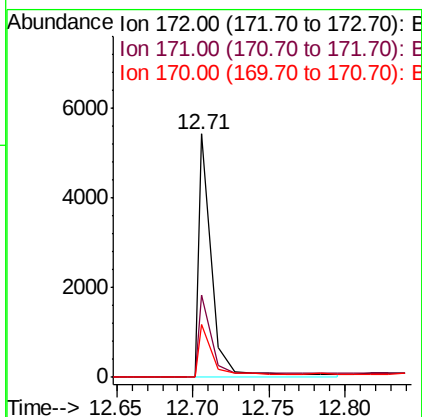
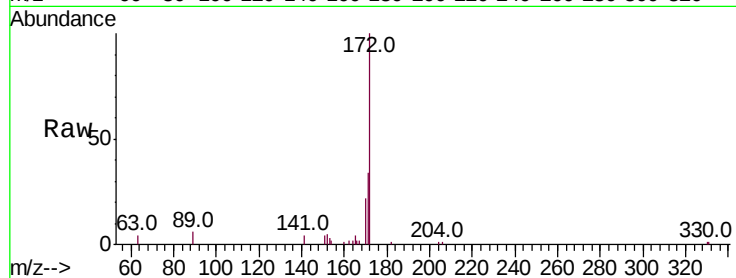




#14
2-Fluorobiphenyl
Concen: 0.134 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

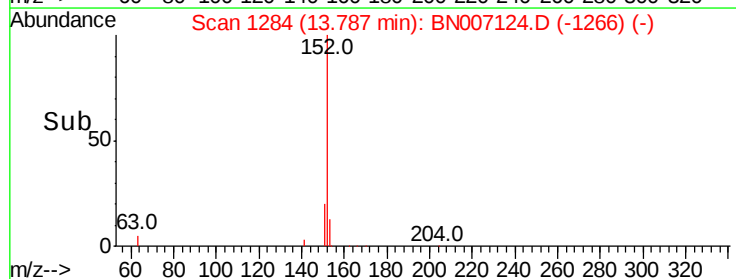
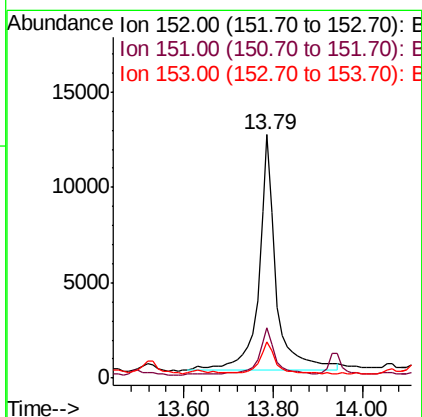
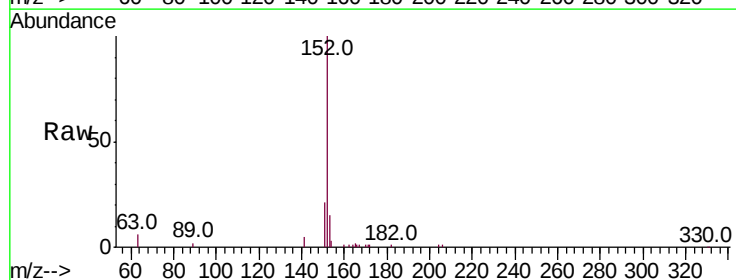
Instrument :
BNA_N
ClientSampleId :

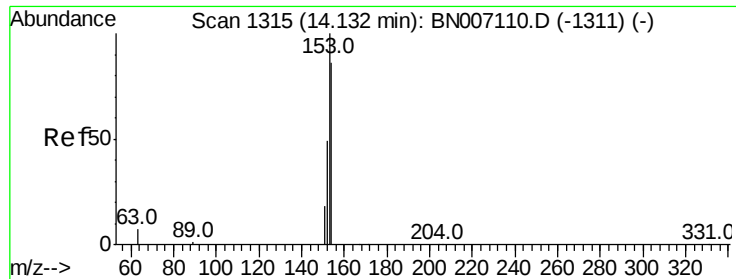
Tot Ion:172 Resp: 3949
Ion Ratio Lower Upper
172 100
171 33.9 26.3 39.5
170 21.7 17.0 25.4



#15
Acenaphthylene
Concen: 0.317 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Tgt Ion:152 Resp: 33497
Ion Ratio Lower Upper
152 100
151 17.7 15.8 23.6
153 12.3 10.4 15.6





#16

Acenaphthene

Concen: 0.161 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

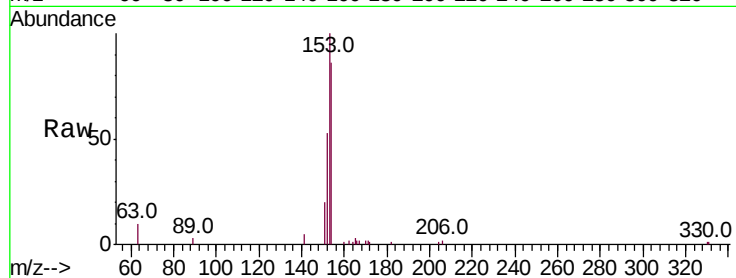
Tot Ion:154 Resp: 10925

Ion Ratio Lower Upper

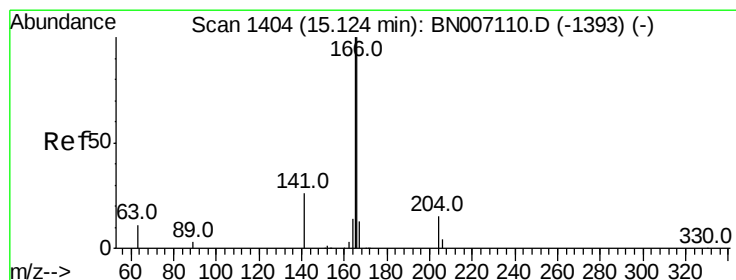
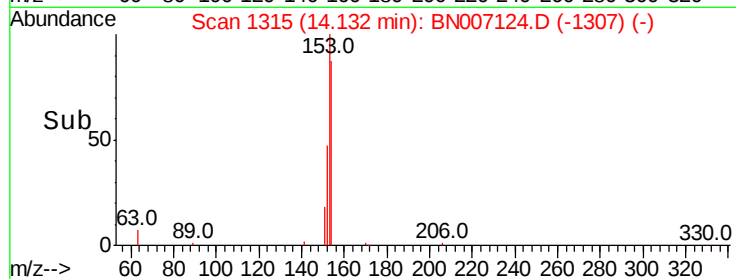
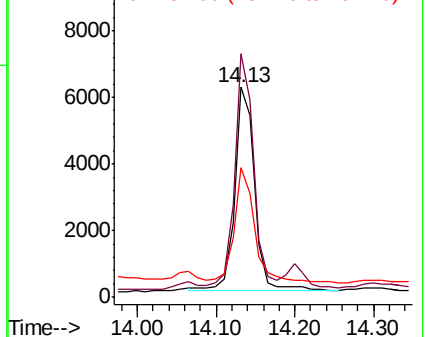
154 100

153 105.7 89.5 134.3

152 58.2 44.8 67.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 0.156 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

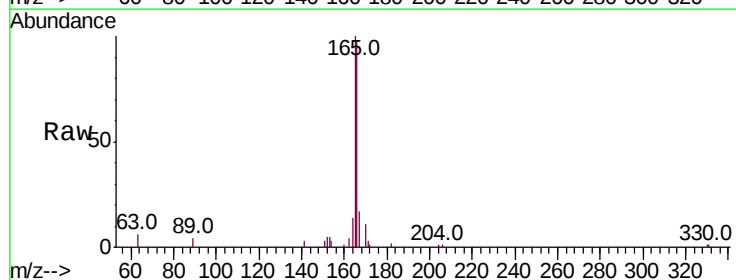
Tgt Ion:166 Resp: 15832

Ion Ratio Lower Upper

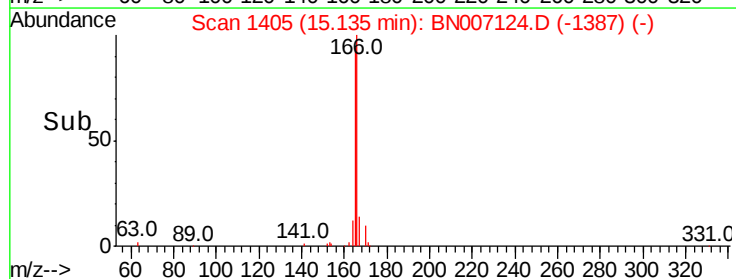
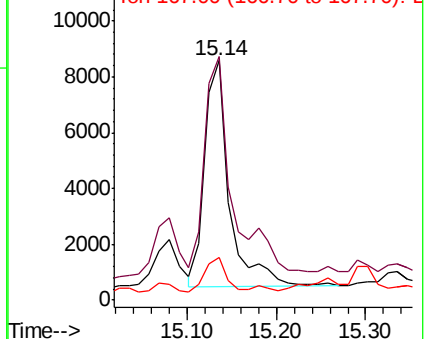
166 100

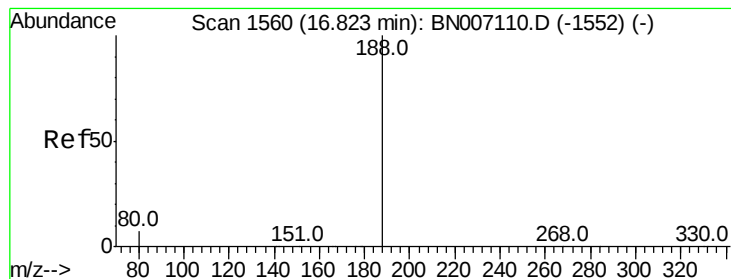
165 108.0 77.9 116.9

167 13.4 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: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

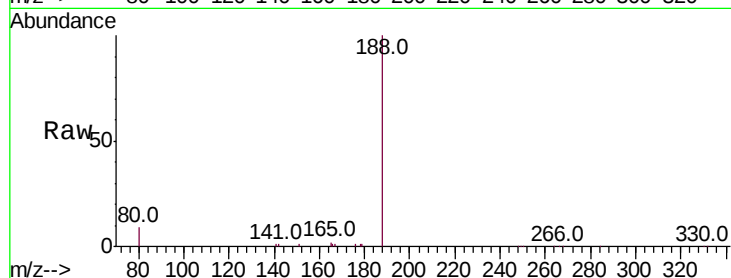
Tot Ion:188 Resp: 47416

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	7.8	11.6

188 100

94 0.0 0.0 0.0

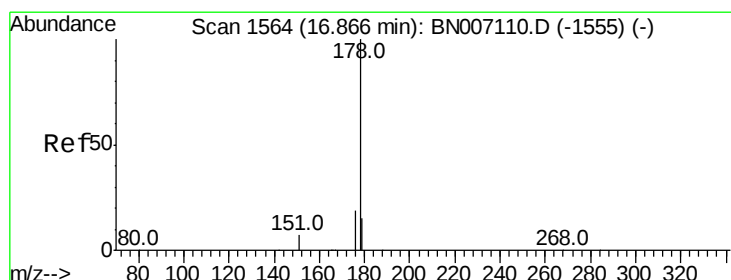
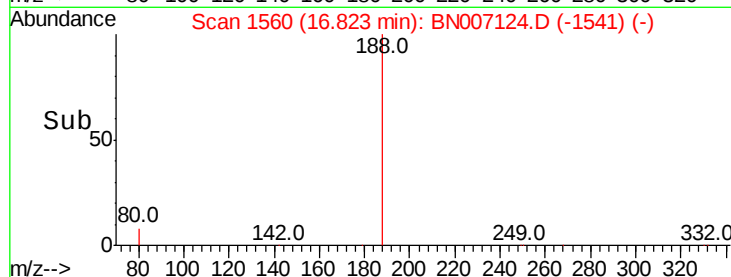
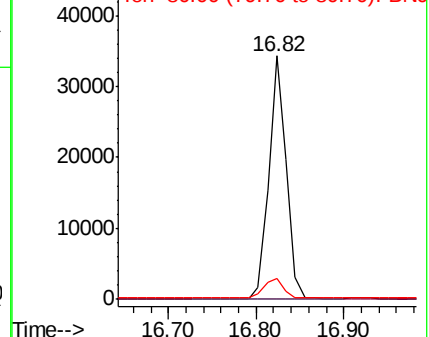
80 8.6 7.8 11.6



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: 1.553 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

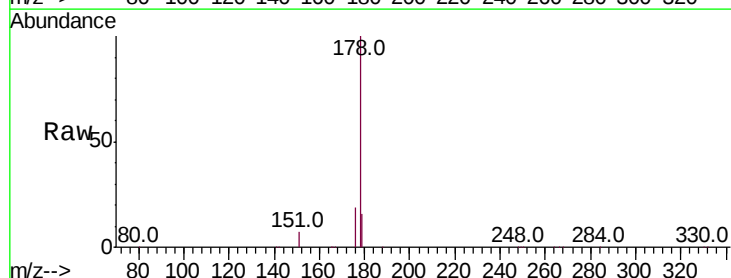
Tgt Ion:178 Resp: 220626

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.5	12.3	18.5

178 100

176 18.9 15.2 22.8

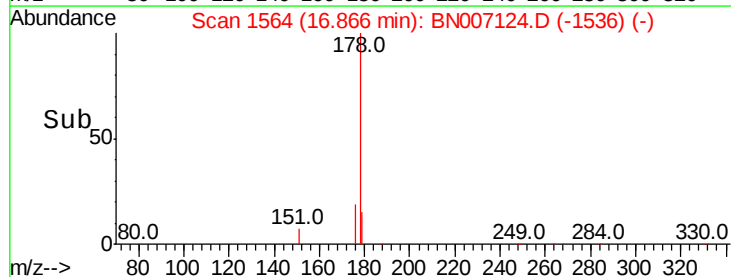
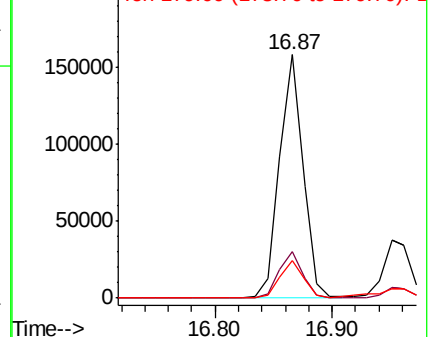
179 15.5 12.3 18.5

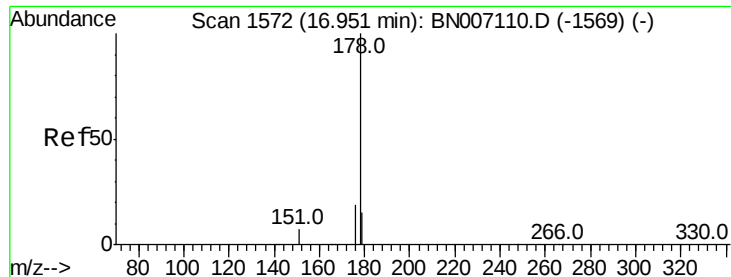


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.450 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

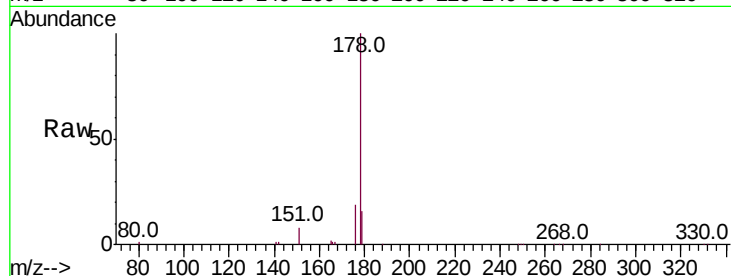
Tot Ion:178 Resp: 58472

Ion Ratio Lower Upper

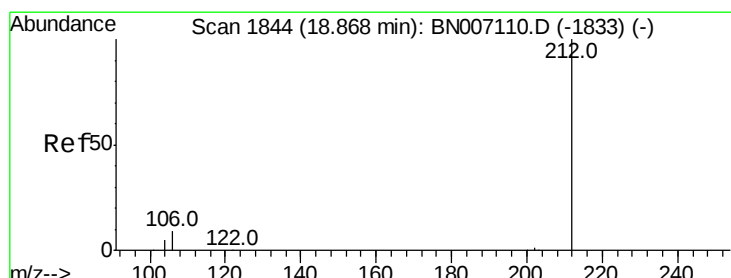
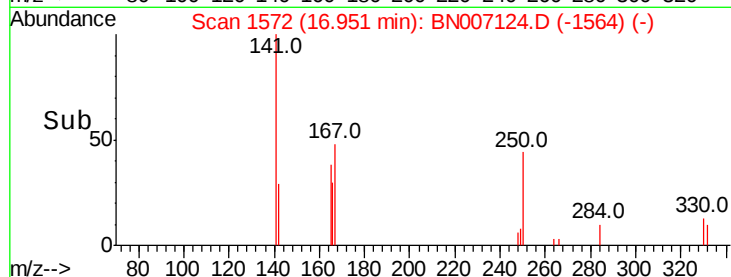
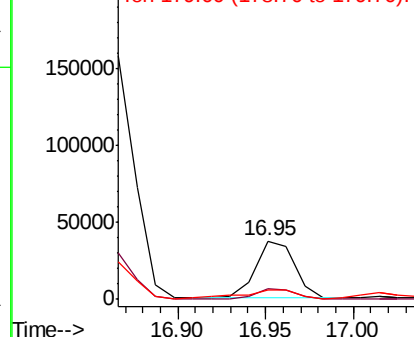
178 100

176 18.3 14.6 21.8

179 20.0 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: 0.189 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

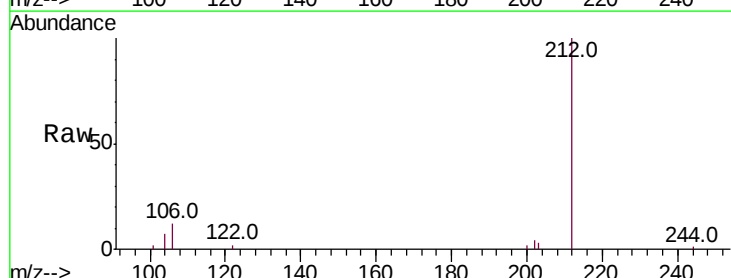
Tgt Ion:212 Resp: 31820

Ion Ratio Lower Upper

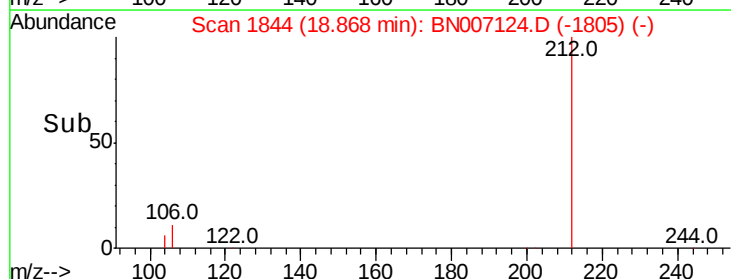
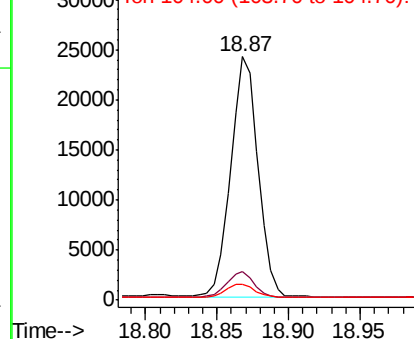
212 100

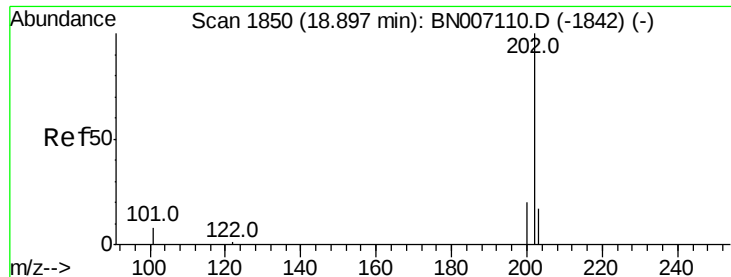
106 10.4 8.2 12.2

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: 1.836 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

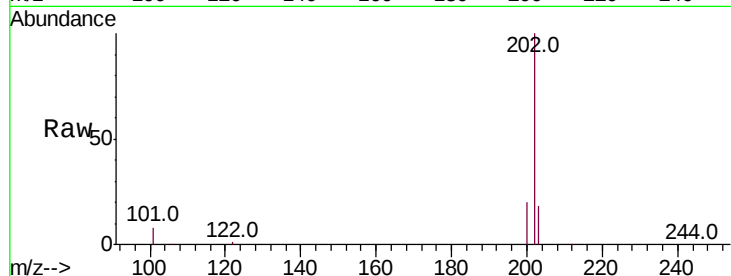
Tot Ion:202 Resp: 333740

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

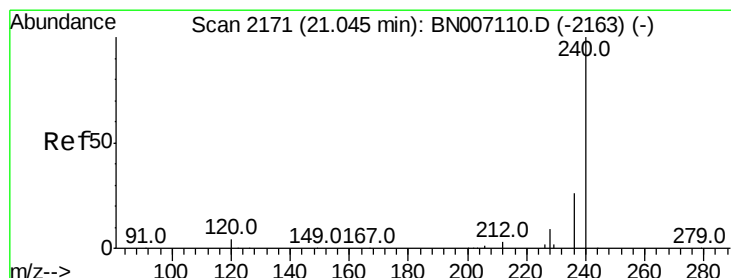
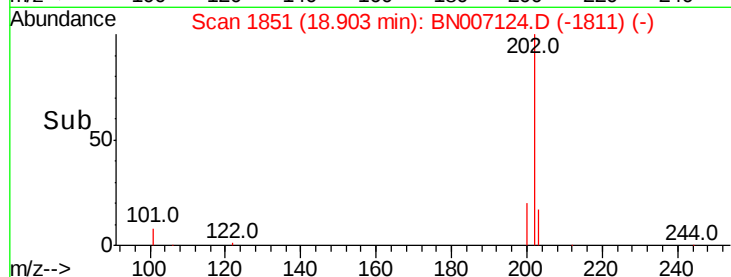
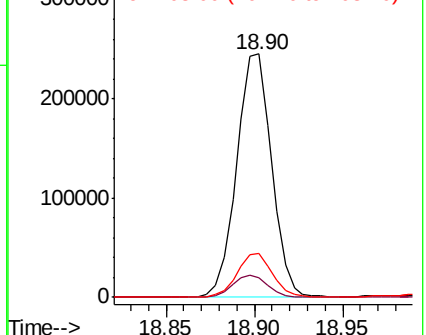
203 17.4 13.8 20.8



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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

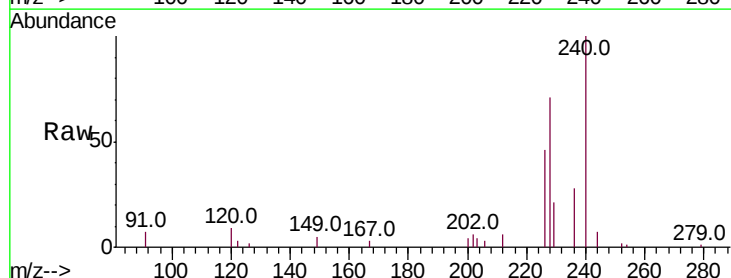
Tgt Ion:240 Resp: 48020

Ion Ratio Lower Upper

240 100

120 8.9 4.0 6.0#

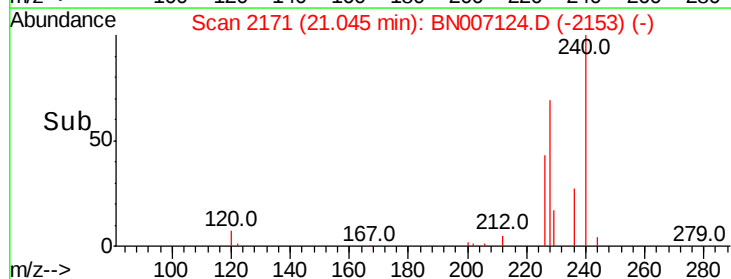
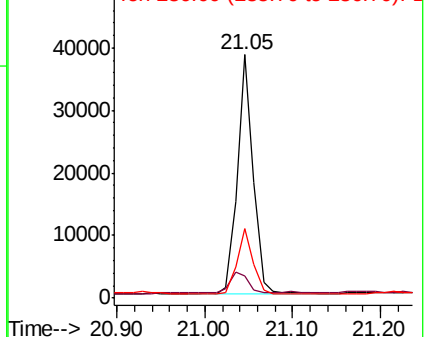
236 28.3 21.3 31.9

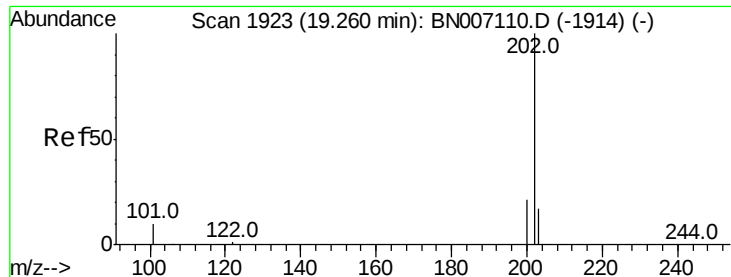


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

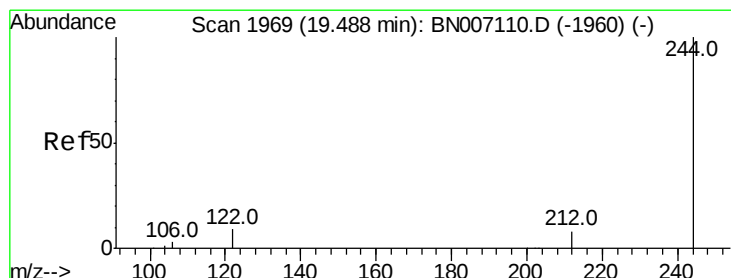
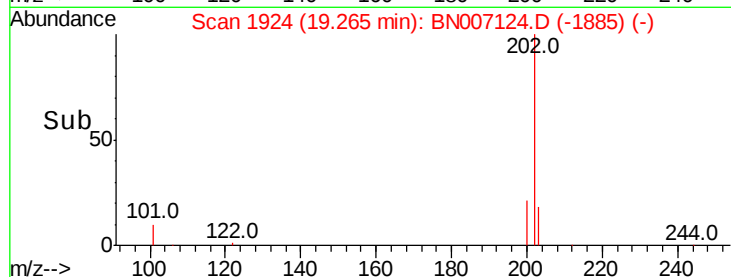
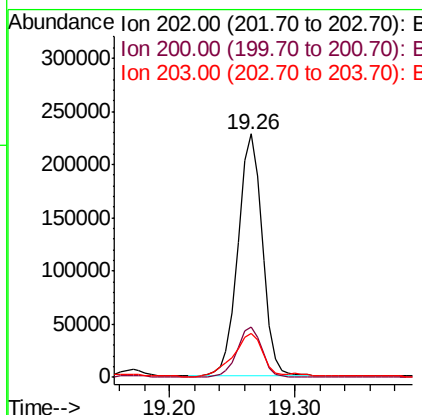
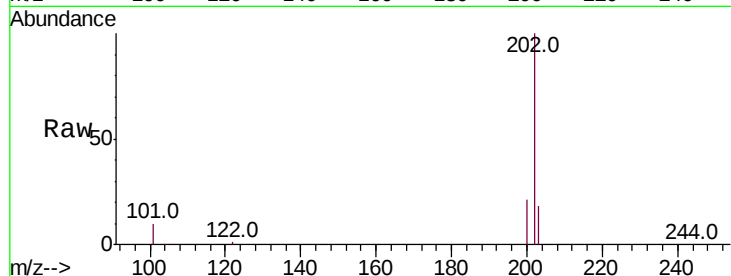




#27
Pvrene
Concen: 1.811 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

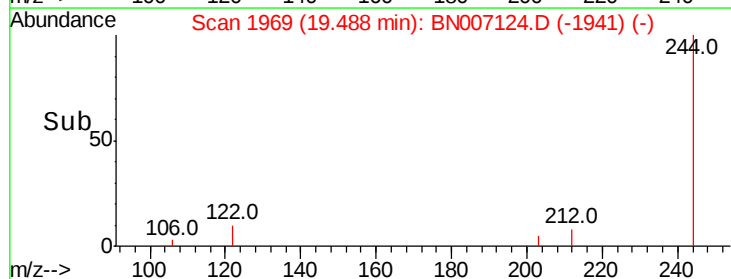
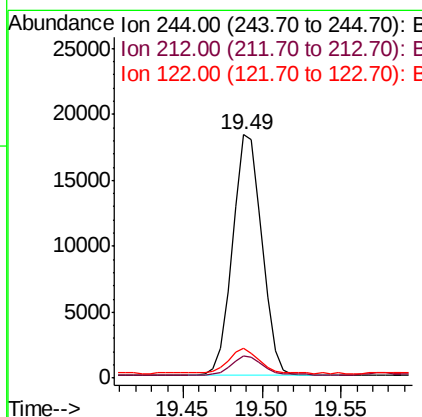
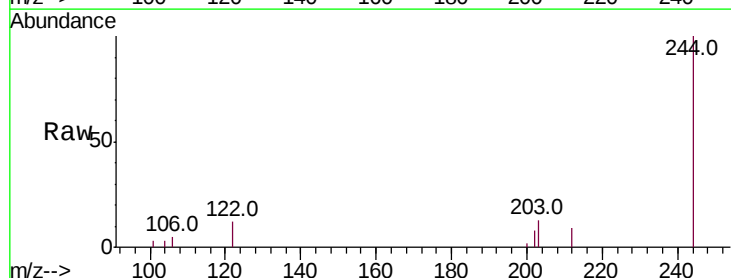
Instrument :
BNA_N
ClientSampleId :

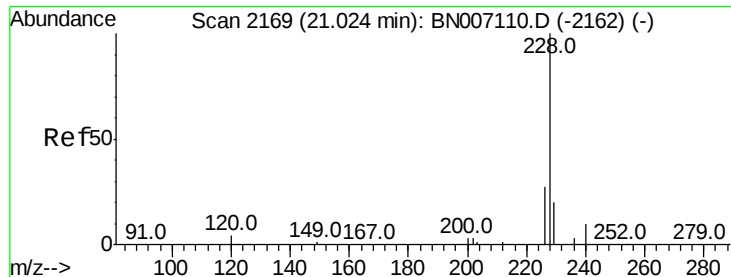
Tot Ion:202 Resp: 305033
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 21.7 14.0 21.0#



#28
Terphenyl-d14
Concen: 0.180 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Tgt Ion:244 Resp: 23543
Ion Ratio Lower Upper
244 100
212 9.0 6.2 9.2
122 12.2 7.4 11.2#

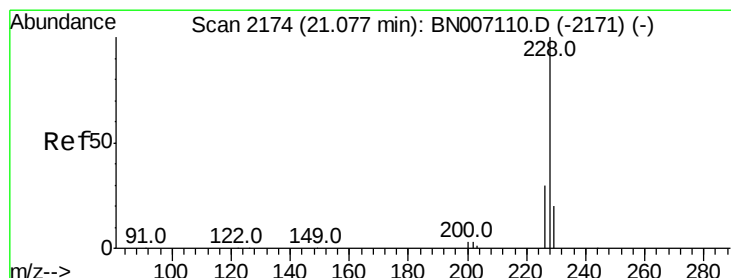
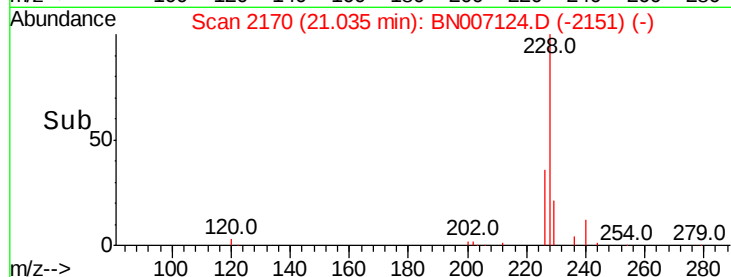
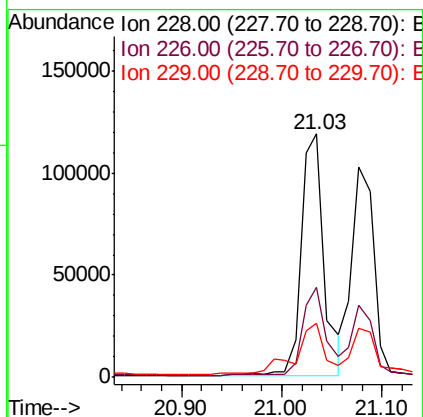
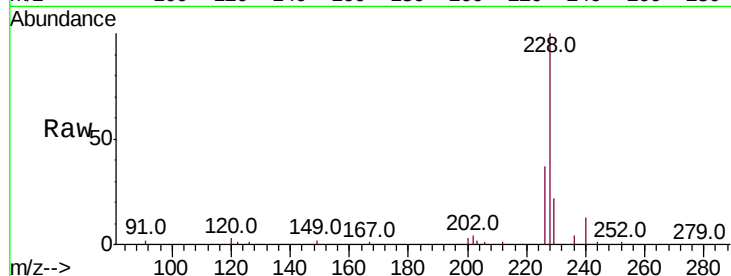




#29
Benzo(a)anthracene
Concen: 1.077 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.00 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

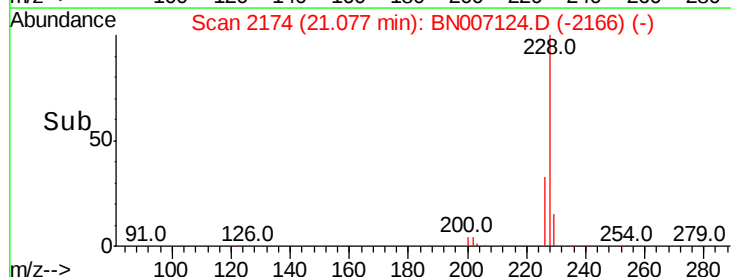
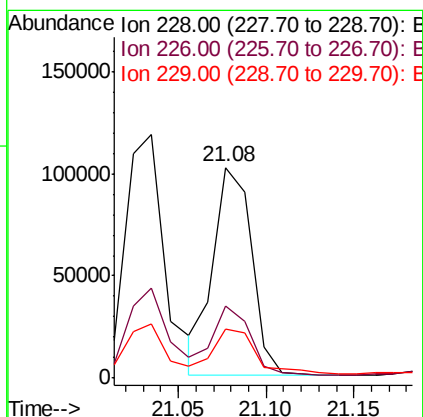
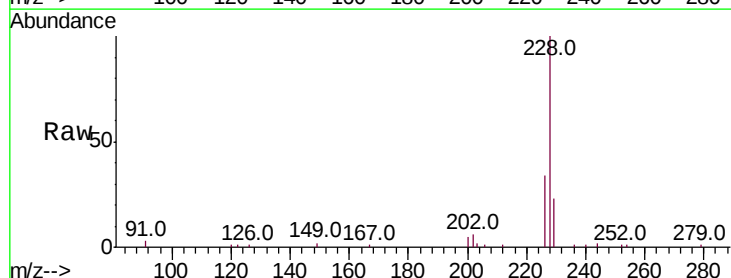
Instrument :
BNA_N
ClientSampleId :

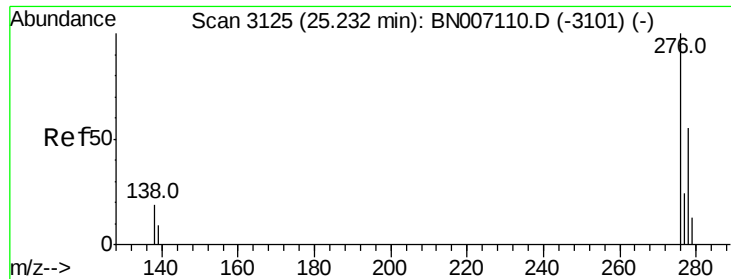
Tot Ion:228 Resp: 189171
Ion Ratio Lower Upper
228 100
226 37.0 21.8 32.6#
229 22.1 15.6 23.4



#30
Chrysene
Concen: 0.910 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Tgt Ion:228 Resp: 155283
Ion Ratio Lower Upper
228 100
226 34.1 23.8 35.6
229 23.3 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.508 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

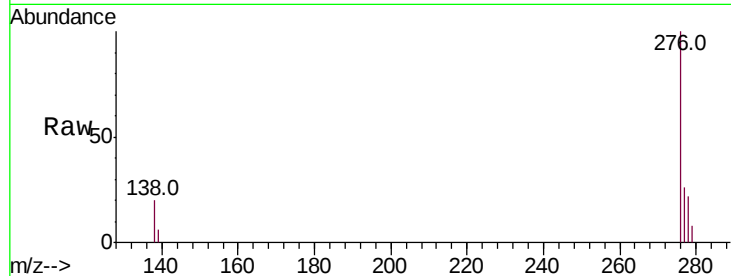
Tot Ion:276 Resp: 95595

Ion Ratio Lower Upper

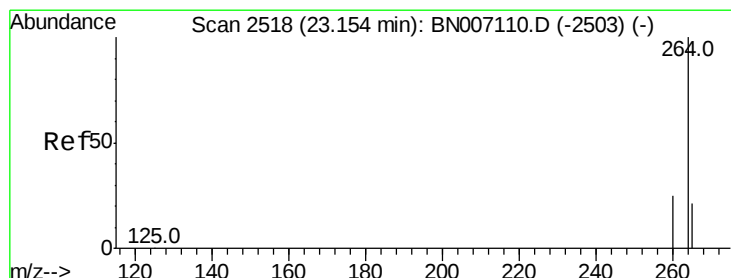
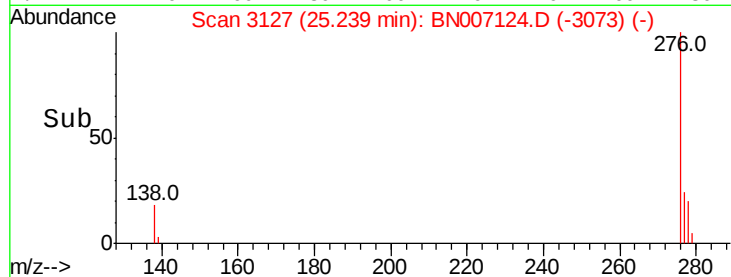
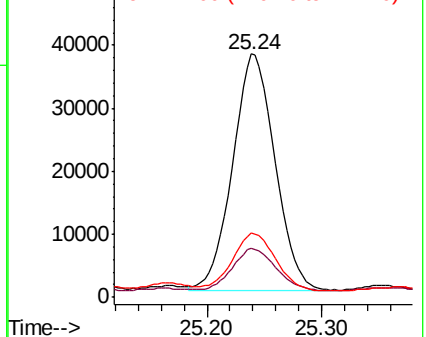
276 100

138 18.8 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# 2521

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

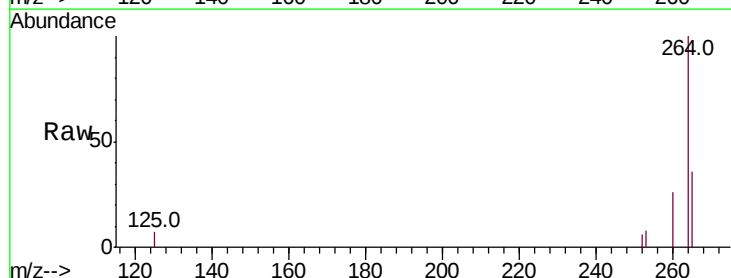
Tgt Ion:264 Resp: 52843

Ion Ratio Lower Upper

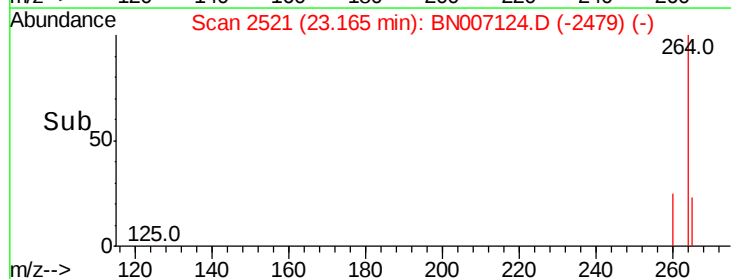
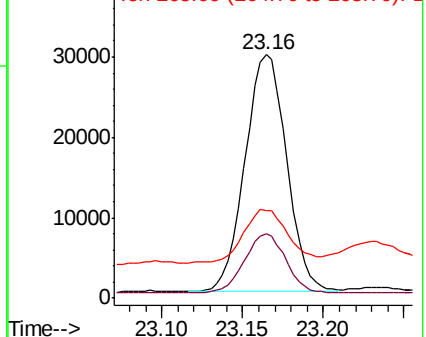
264 100

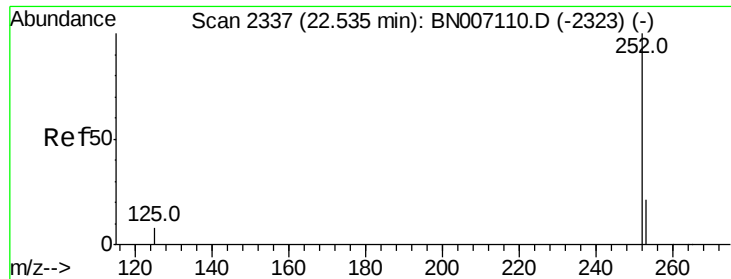
260 26.2 19.8 29.8

265 36.1 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

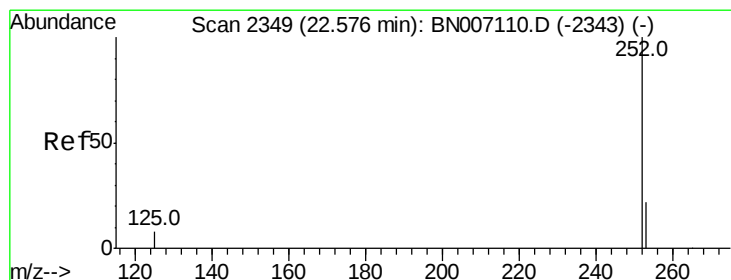
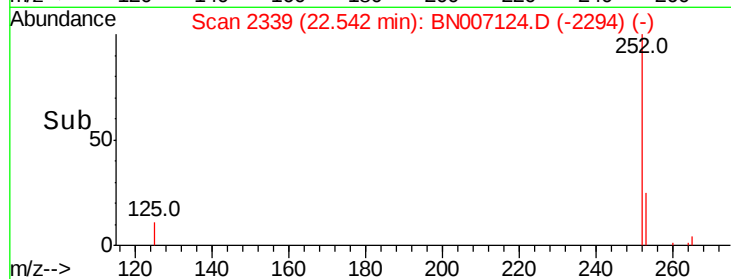
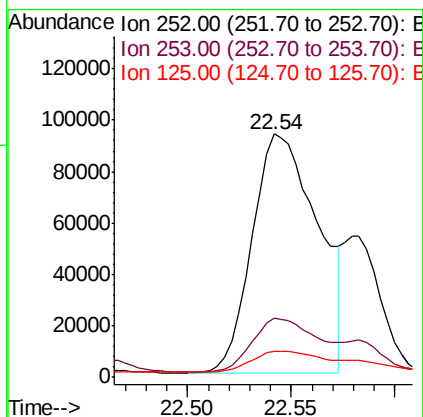
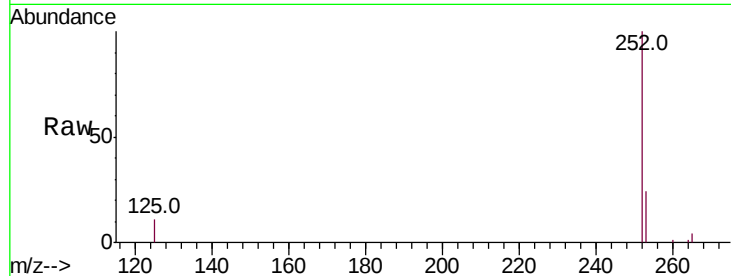




#33
Benzo(b)fluoranthene
Concen: 1.128 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.01 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

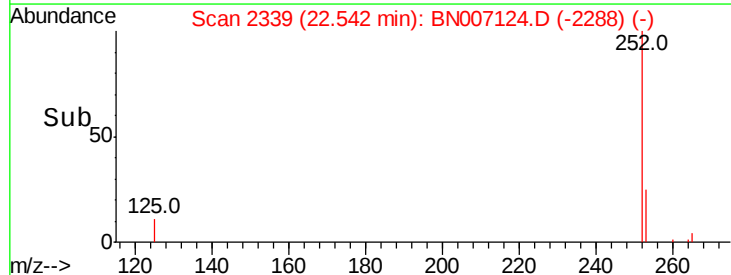
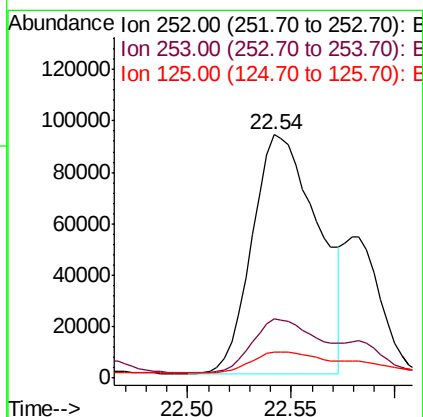
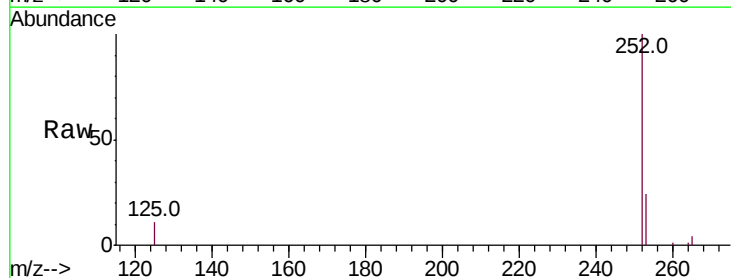
Instrument :
BNA_N
ClientSampleId :

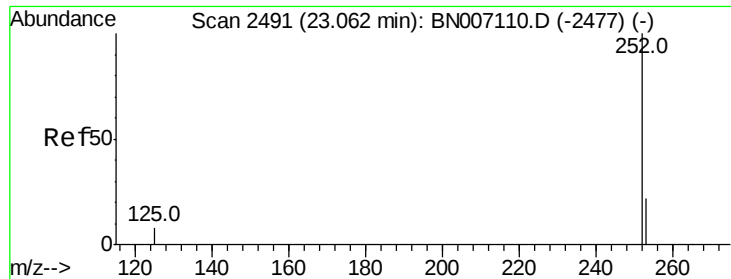
Tot Ion:252 Resp: 204347
Ion Ratio Lower Upper
252 100
253 24.3 18.2 27.2
125 10.6 7.4 11.0



#34
Benzo(k)fluoranthene
Concen: 1.142 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.05 min
Lab File: BN007124.D
Acq: 13 Aug 2019 10:31

Tgt Ion:252 Resp: 204347
Ion Ratio Lower Upper
252 100
253 24.3 18.1 27.1
125 10.6 7.4 11.0





#35

Benzo(a)pyrene

Concen: 0.911 ng

RT: 23.07 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :

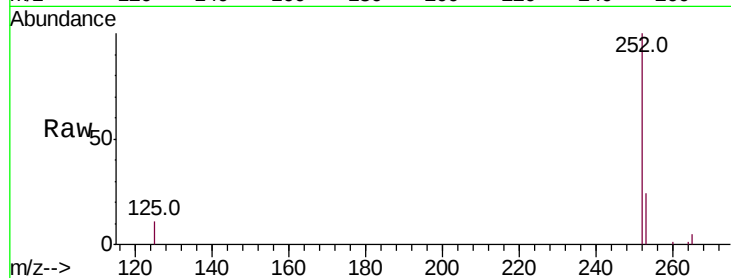
Tot Ion:252 Resp: 149691

Ion Ratio Lower Upper

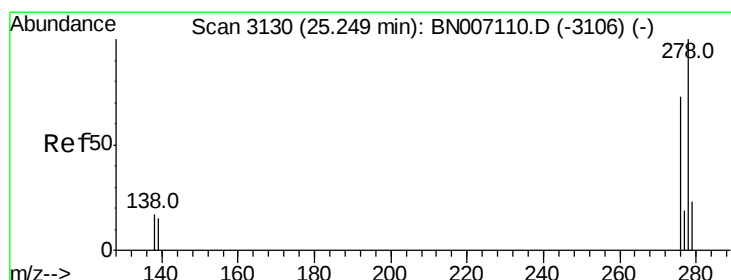
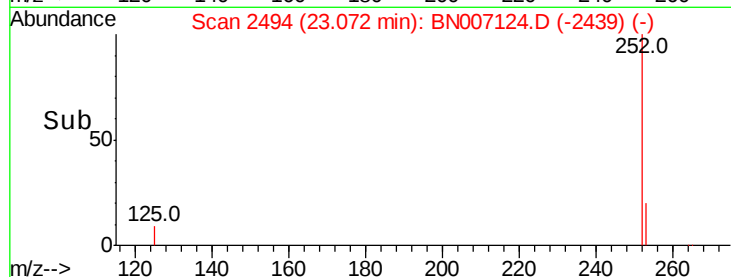
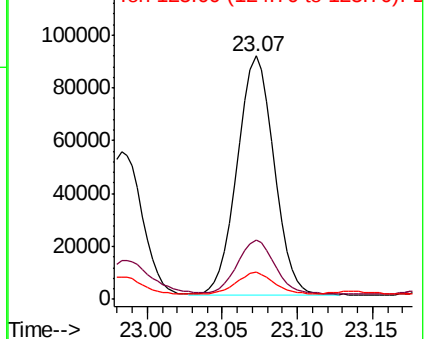
252 100

253 24.1 18.5 27.7

125 11.0 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: 0.161 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

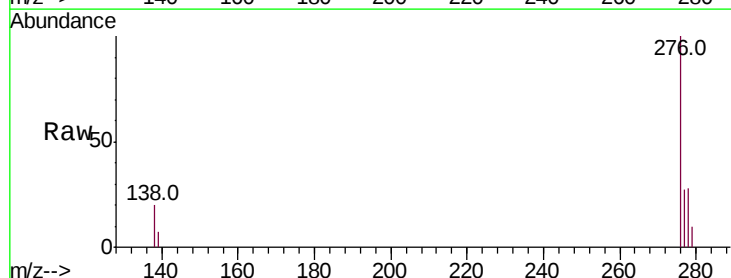
Tgt Ion:278 Resp: 26389

Ion Ratio Lower Upper

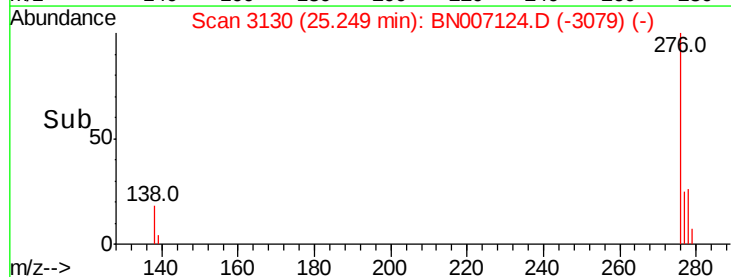
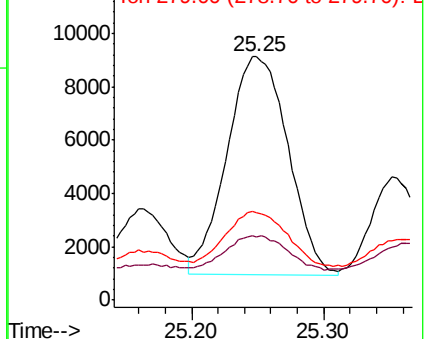
278 100

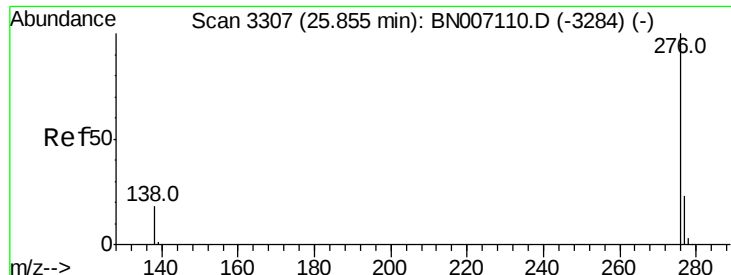
139 26.0 11.3 16.9#

279 35.9 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: 0.530 ng

RT: 25.87 min Scan# 3312

Delta R.T. -0.01 min

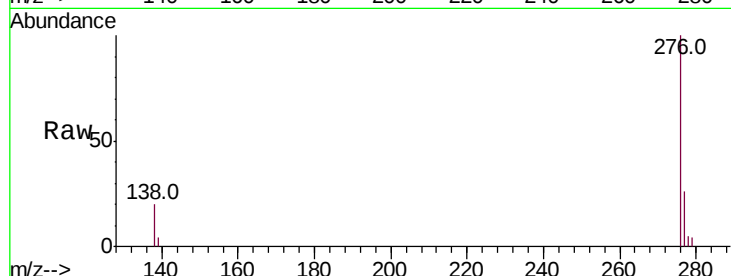
Lab File: BN007124.D

Acq: 13 Aug 2019 10:31

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 89370

Ion Ratio Lower Upper

276 100

277 26.2 19.8 29.8

138 20.1 14.6 22.0

