

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007066.D
 Acq On : 11 Aug 2019 01:59
 Operator : HP/JU
 Sample : K4239-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:39:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	8082	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	30386	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	17109	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	42288	0.40	ng	0.00
26) Chrysene-d12	21.05	240	44073	0.40	ng	-0.01
32) Perylene-d12	23.15	264	47000	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5343	0.28	ng	0.00
4) Phenol-d6	6.61	99	7157	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	5584	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12703	0.22	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1181	0.13	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	5299	0.21	ng	0.00
24) Fluoranthene-d10	18.87	212	29532	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	22798	0.19	ng	0.00

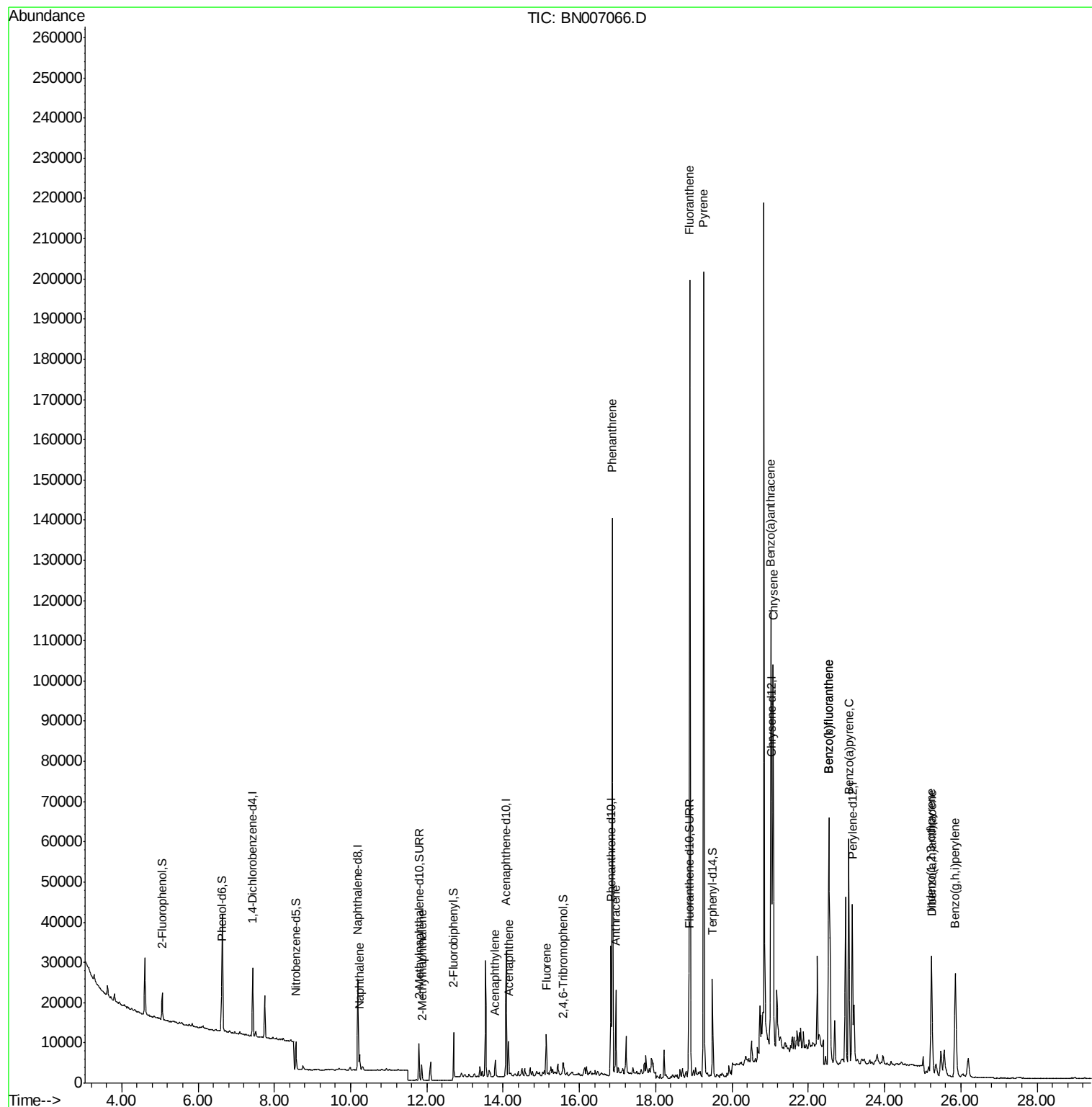
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	4789	0.056	ng	96
11) 2-Methylnaphthalene	11.87	142	2744	0.045	ng	# 92
15) Acenaphthylene	13.79	152	4951	0.055	ng	97
16) Acenaphthene	14.14	154	5001	0.087	ng	98
17) Fluorene	15.14	166	6162	0.072	ng	96
22) Phenanthrene	16.87	178	136706	1.079	ng	100
23) Anthracene	16.96	178	23195	0.200	ng	# 93
25) Fluoranthene	18.90	202	178106	1.099	ng	100
27) Pyrene	19.26	202	181771	1.176	ng	96
29) Benzo(a)anthracene	21.02	228	87563	0.543	ng	97
30) Chrysene	21.08	228	86649	0.553	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	47668	0.276	ng	97
33) Benzo(b)fluoranthene	22.54	252	102766	0.638	ng	99
34) Benzo(k)fluoranthene	22.54	252	102766	0.646	ng	99
35) Benzo(a)pyrene	23.06	252	75984	0.520	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	12341	0.085	ng	# 86
37) Benzo(a,h,i)perylene	25.85	276	53193	0.355	ng	99

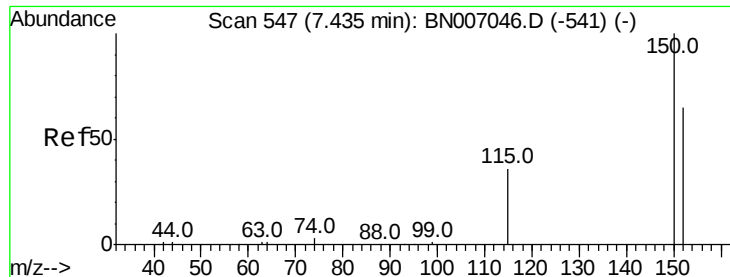
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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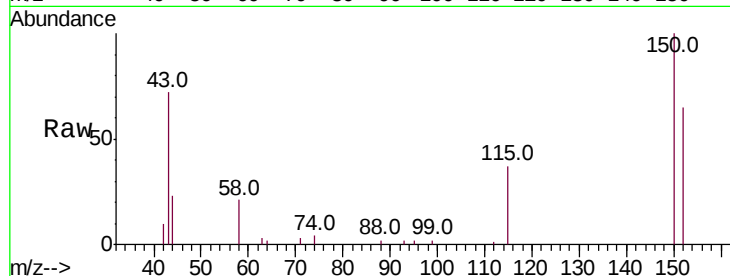


#1

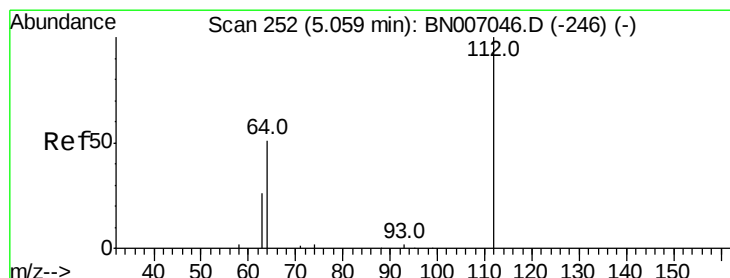
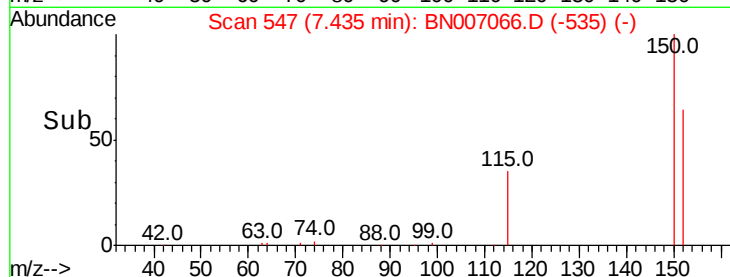
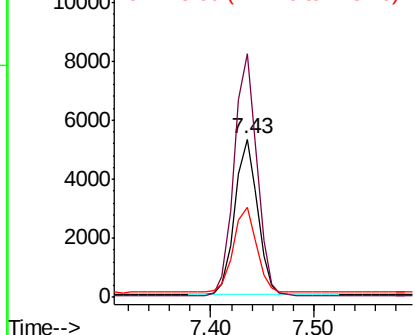
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 8082
Ion Ratio Lower Upper
152 100
150 154.0 121.7 182.5
115 57.1 46.2 69.4



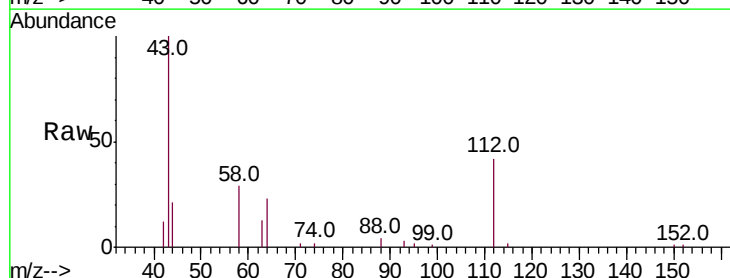
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



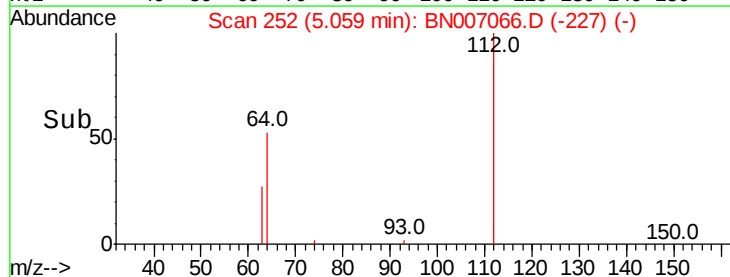
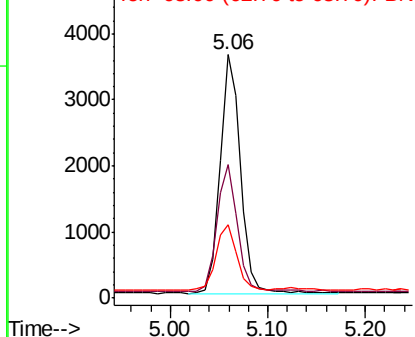
#3

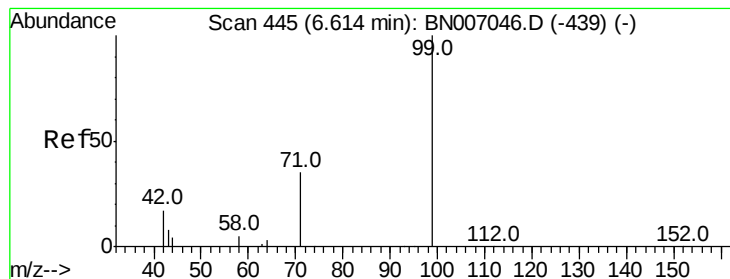
2-Fluorophenol
Concen: 0.275 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

Tgt Ion:112 Resp: 5343
Ion Ratio Lower Upper
112 100
64 53.0 42.6 63.8
63 28.1 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: 0.298 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

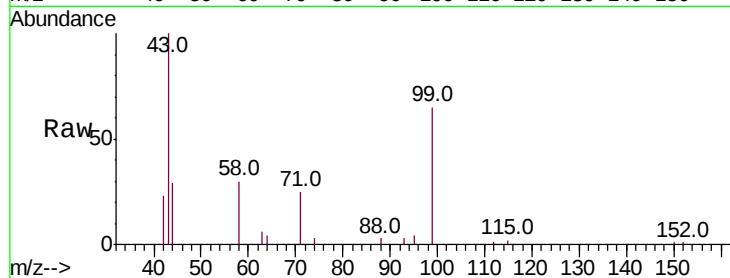
Tot Ion: 99 Resp: 7157

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 35.3 27.0 40.4

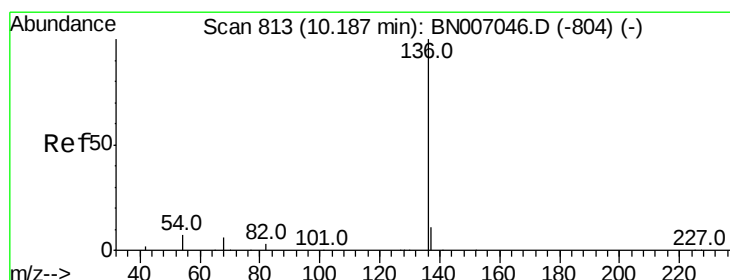
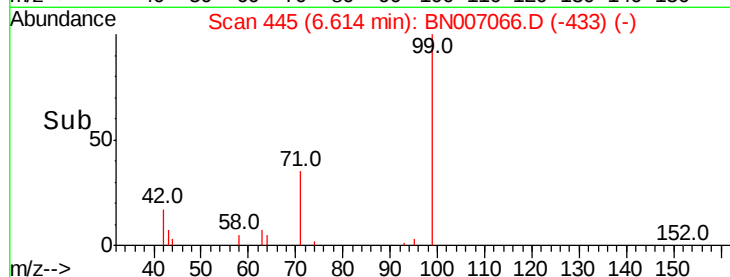
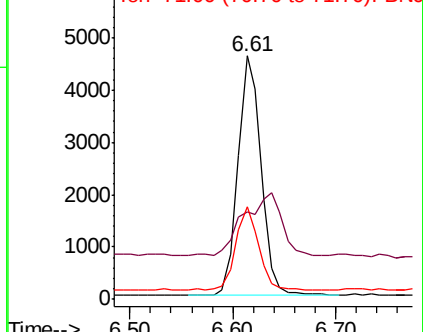


Abundance

Ion 99.00 (98.70 to 99.70): BN0

Ion 42.00 (41.70 to 42.70): BN0

Ion 71.00 (70.70 to 71.70): BN0



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Tgt Ion: 136 Resp: 30386

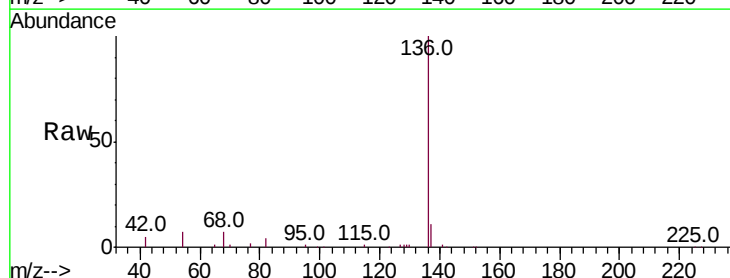
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 7.4 6.6 9.8

68 6.7 6.0 9.0



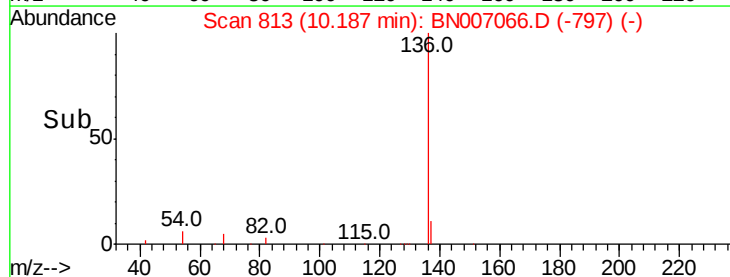
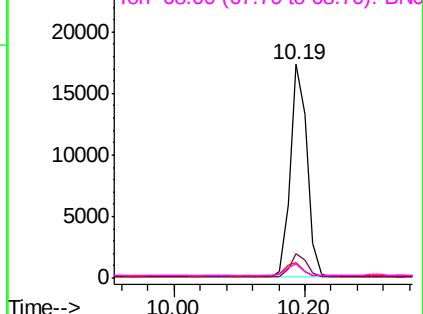
Abundance

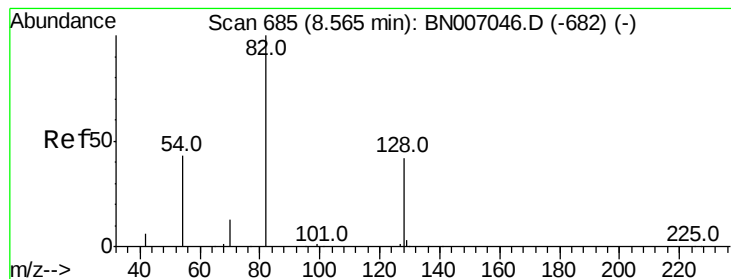
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BN0

Ion 68.00 (67.70 to 68.70): BN0





#7

Nitrobenzene-d5

Concen: 0.228 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

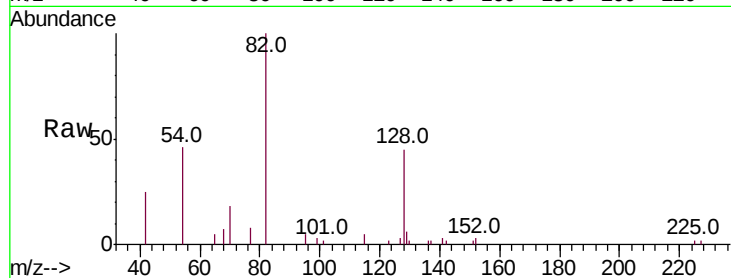
Tot Ion: 82 Resp: 5584

Ion Ratio Lower Upper

82 100

128 44.7 34.6 51.8

54 46.5 36.2 54.4

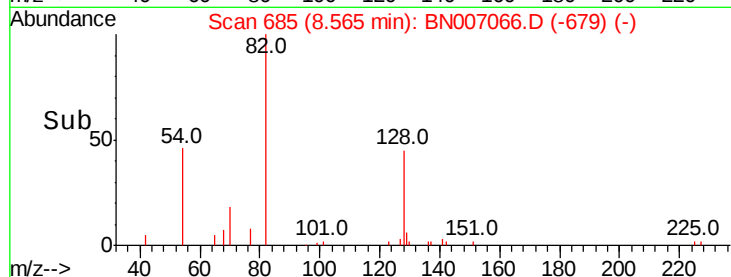


Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)

8.56



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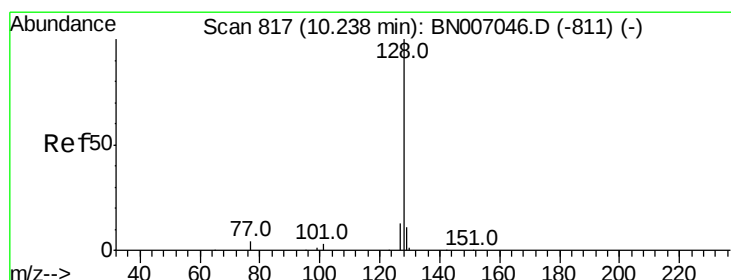
8.56

8.56

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8.56



#8

Naphthalene

Concen: 0.056 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

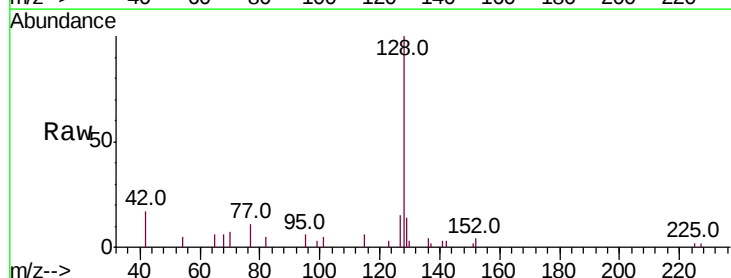
Tgt Ion:128 Resp: 4789

Ion Ratio Lower Upper

128 100

129 13.9 9.4 14.2

127 14.9 11.0 16.6

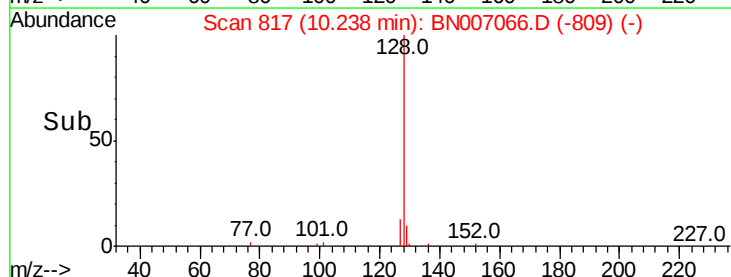


Abundance Ion 128.00 (127.70 to 128.70): BN007066.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007066.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007066.D (-809) (-)

10.24



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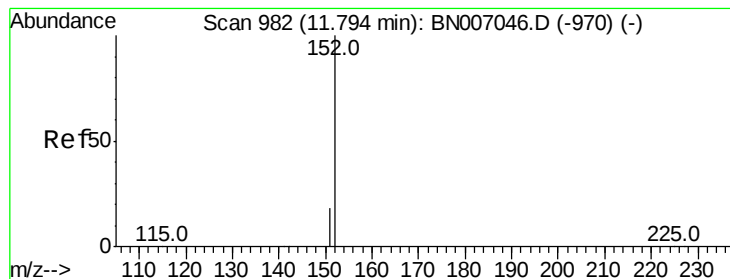
10.24

10.24

10.24

10.24

10.24



#10

2-Methylnaphthalene-d10

Concen: 0.224 ng

RT: 11.79 min Scan# 982

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

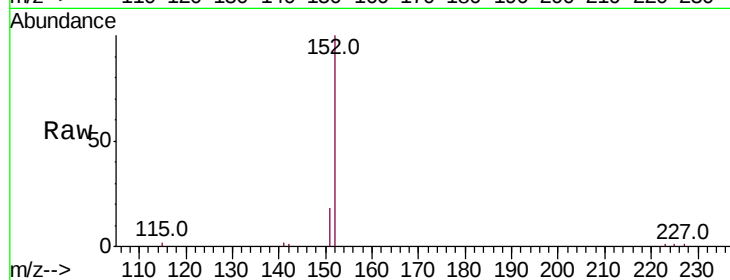
ClientSampled :

Tot Ion:152 Resp: 12703

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

8000

6000

4000

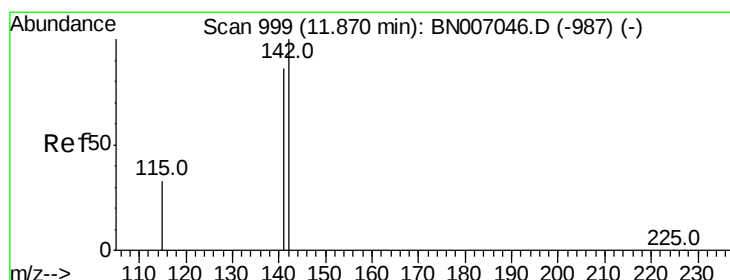
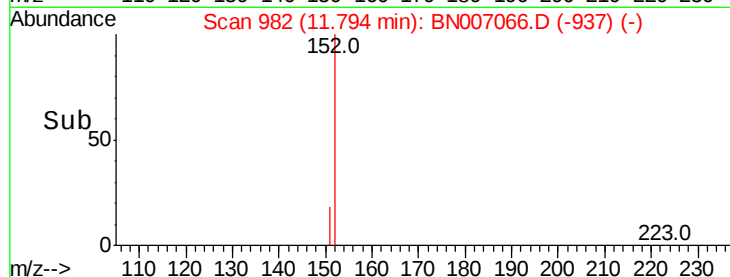
2000

0

11.79

11.70 11.80

Time-->



#11

2-Methylnaphthalene

Concen: 0.045 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

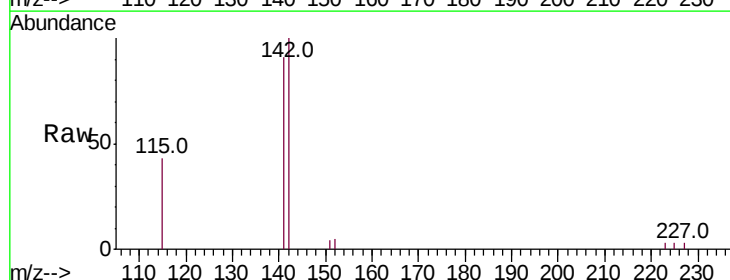
Tgt Ion:142 Resp: 2744

Ion Ratio Lower Upper

142 100

141 90.9 69.0 103.6

115 43.3 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

2500

2000

1500

1000

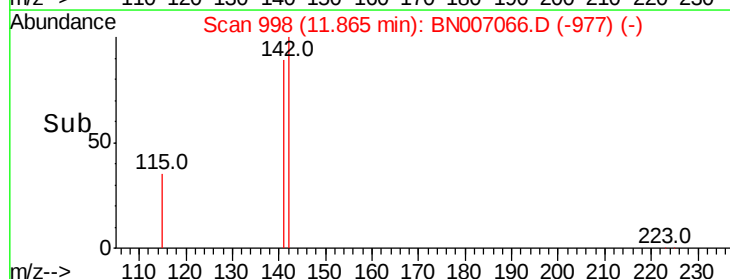
500

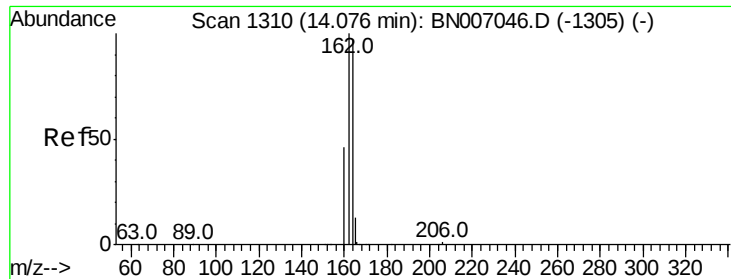
0

11.87

11.80 11.90

Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

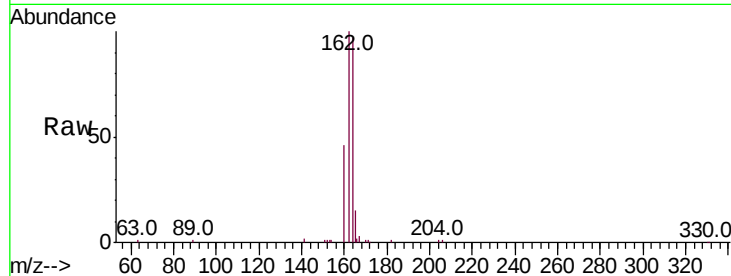
Tot Ion:164 Resp: 17109

Ion Ratio Lower Upper

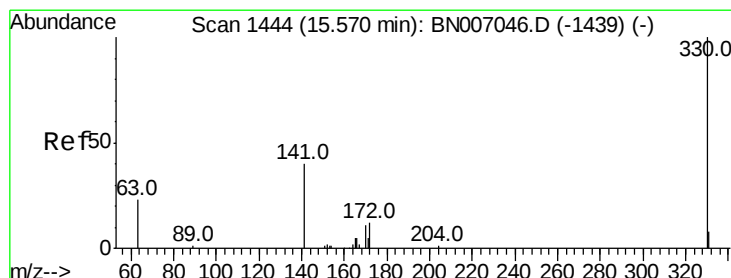
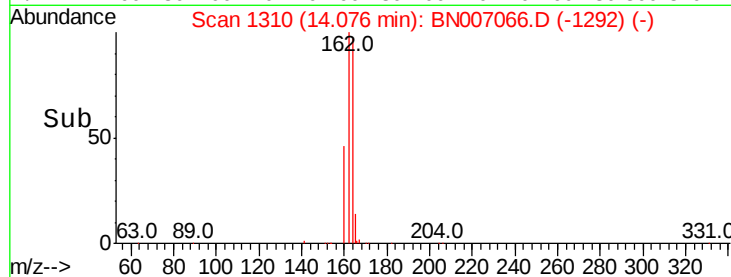
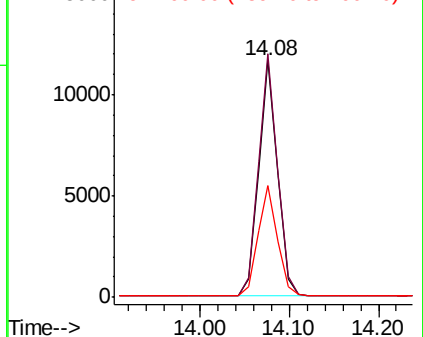
164 100

162 102.9 82.2 123.4

160 47.4 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: 0.128 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

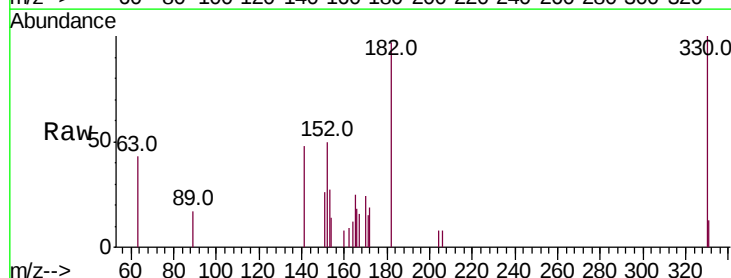
Tgt Ion:330 Resp: 1181

Ion Ratio Lower Upper

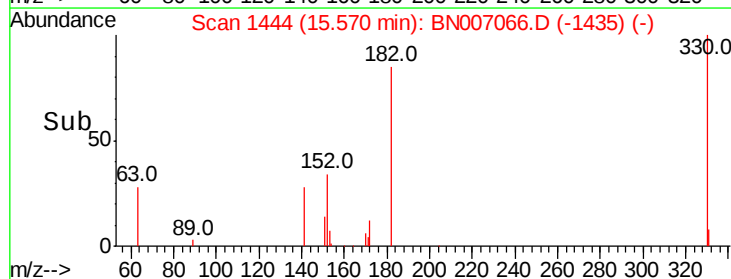
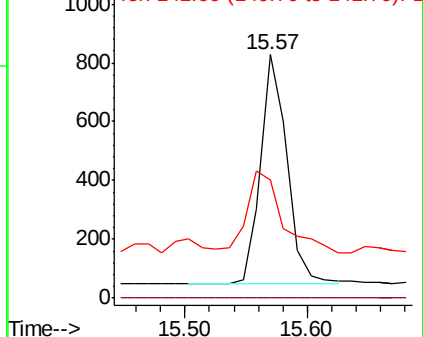
330 100

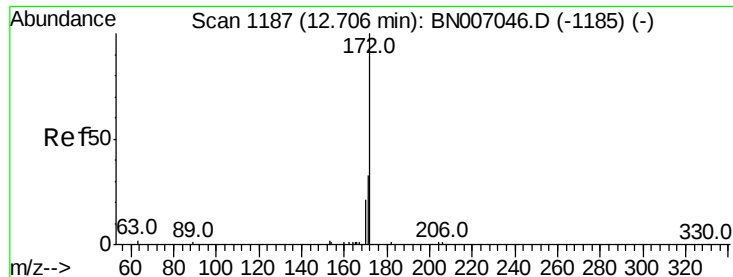
332 0.0 0.0 0.0

141 47.8 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

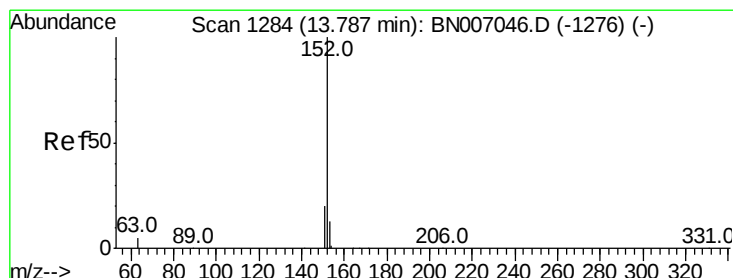
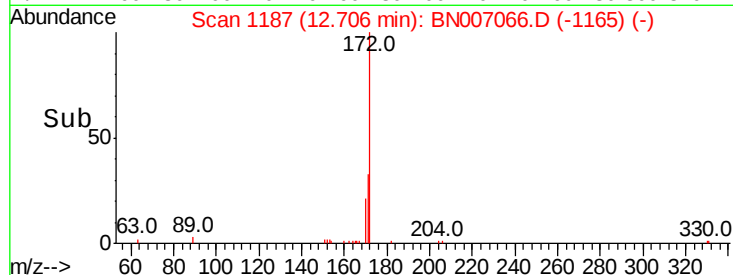
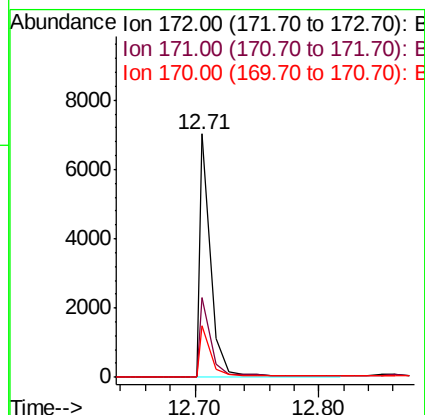
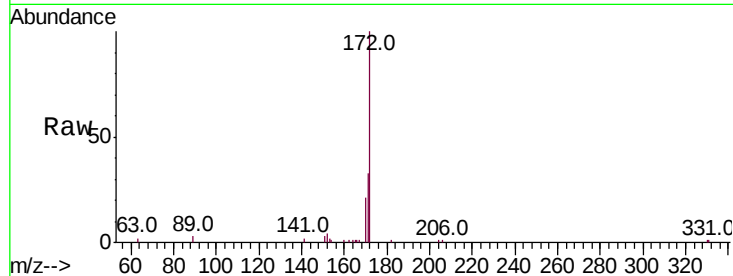




#14
 2-Fluorobiphenyl
 Concen: 0.213 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

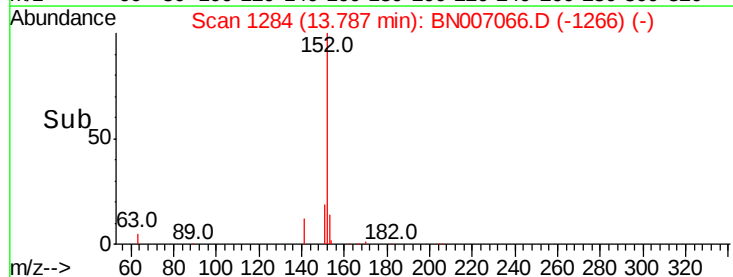
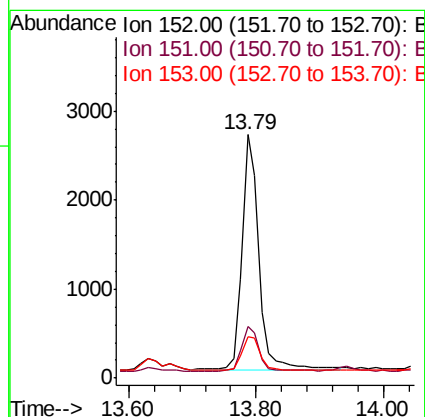
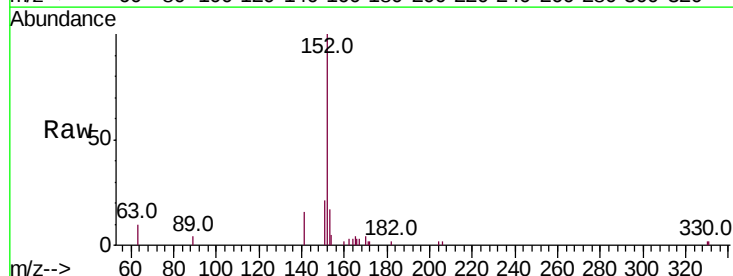
Instrument :
 BNA_N
 ClientSampleId :

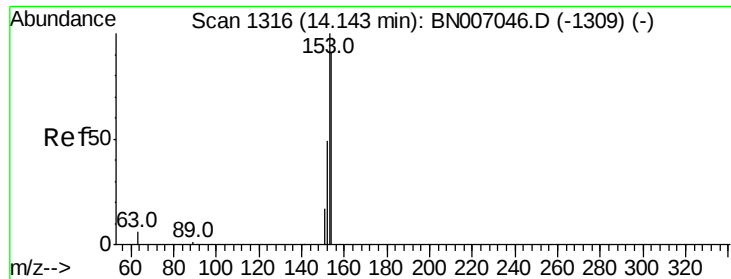
Tot Ion:172 Resp: 5299
 Ion Ratio Lower Upper
 172 100
 171 32.9 26.3 39.5
 170 21.1 17.0 25.4



#15
 Acenaphthylene
 Concen: 0.055 ng
 RT: 13.79 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

Tgt Ion:152 Resp: 4951
 Ion Ratio Lower Upper
 152 100
 151 19.7 15.8 23.6
 153 15.6 10.4 15.6





#16

Acenaphthene

Concen: 0.087 ng

RT: 14.14 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

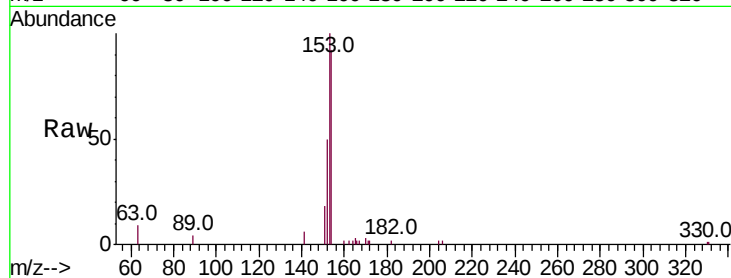
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 5001

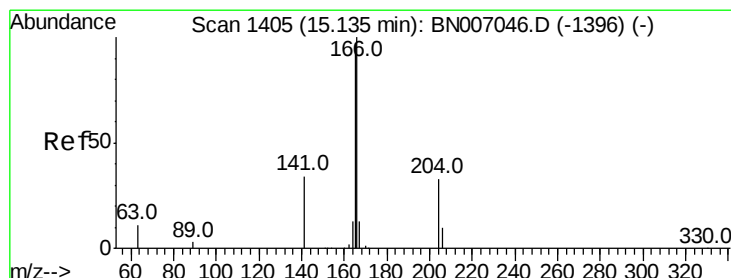
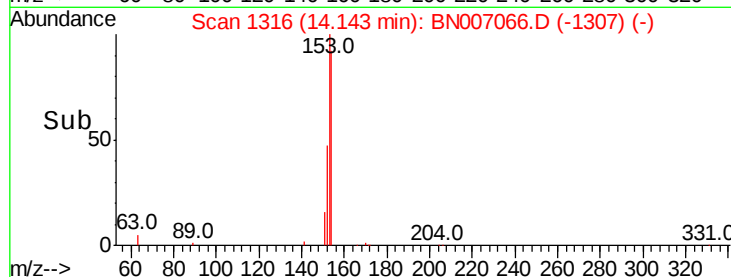
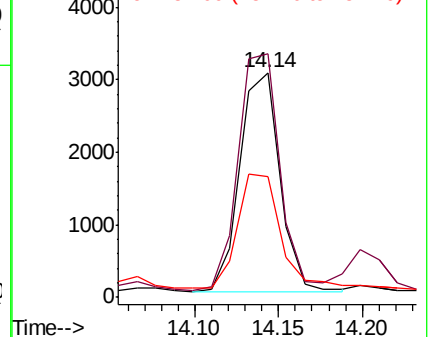
Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.5	134.3
152	58.9	44.8	67.2



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: 0.072 ng

RT: 15.14 min Scan# 1405

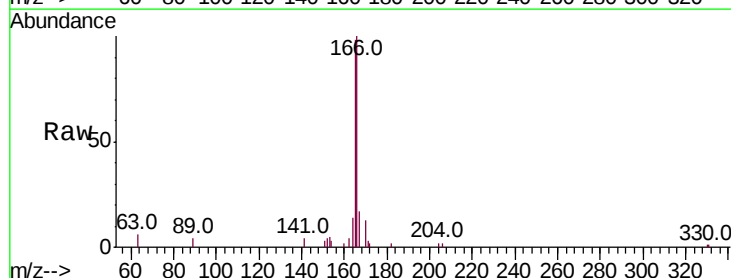
Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Tgt Ion:166 Resp: 6162

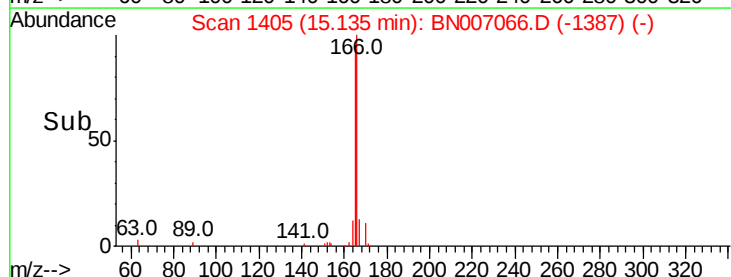
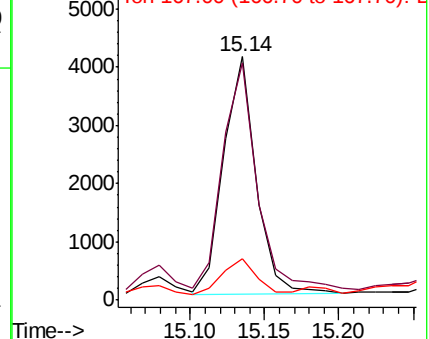
Ion	Ratio	Lower	Upper
166	100		
165	100.9	77.9	116.9
167	16.0	10.9	16.3

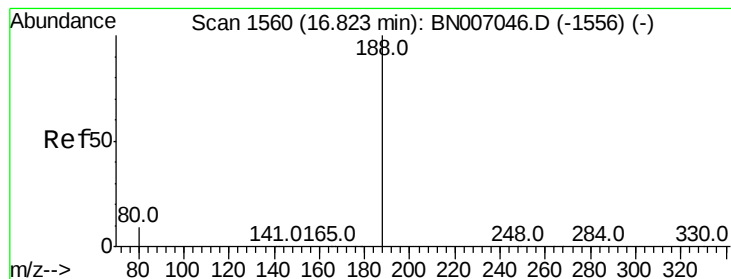


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

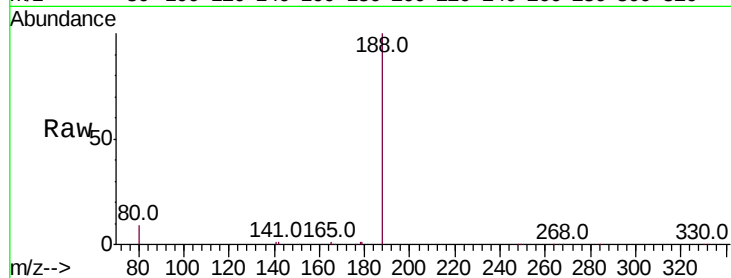
Tot Ion:188 Resp: 42288

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	7.8	11.6

188 100

94 0.0 0.0 0.0

80 8.9 7.8 11.6

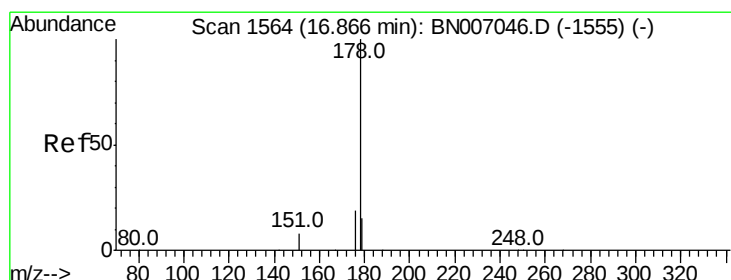
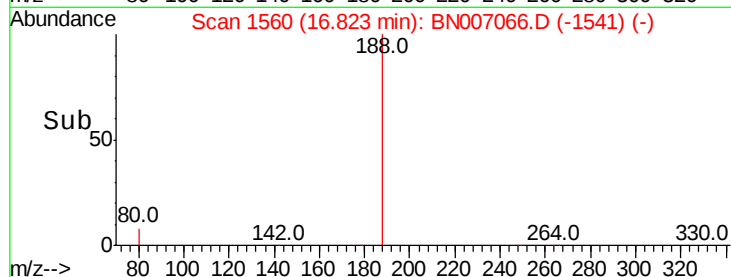
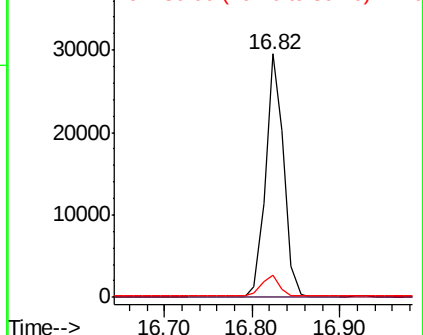


Abundance

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: 1.079 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

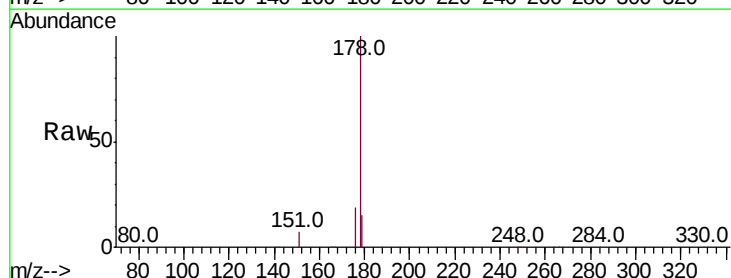
Tgt Ion:178 Resp: 136706

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.3	12.3	18.5

178 100

176 18.9 15.2 22.8

179 15.3 12.3 18.5

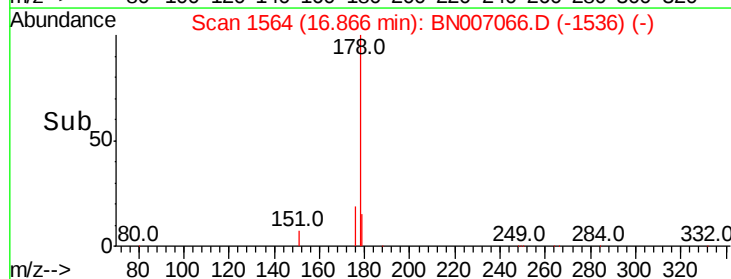
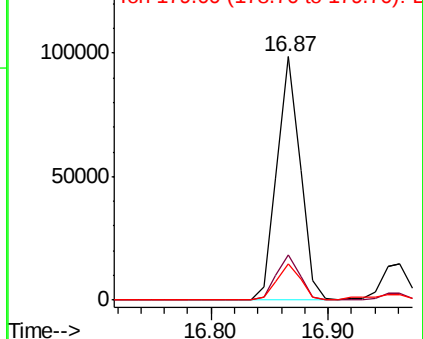


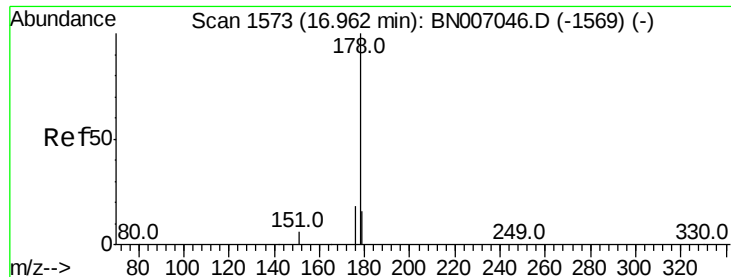
Abundance

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

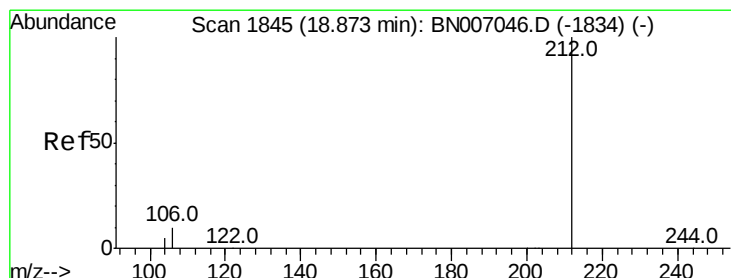
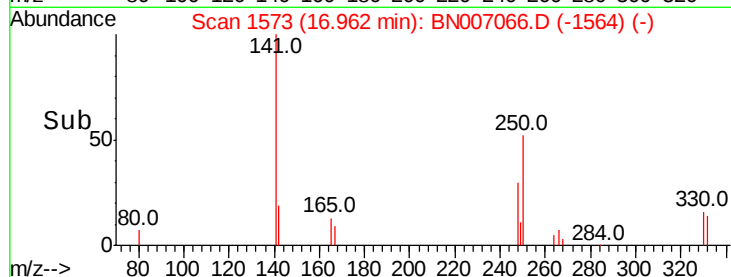
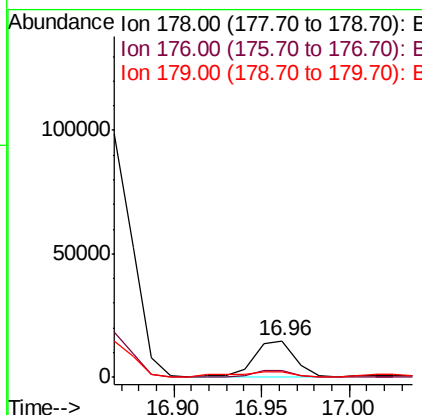
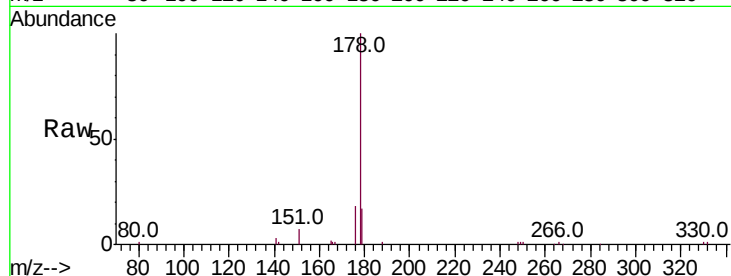




#23
 Anthracene
 Concen: 0.200 ng
 RT: 16.96 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

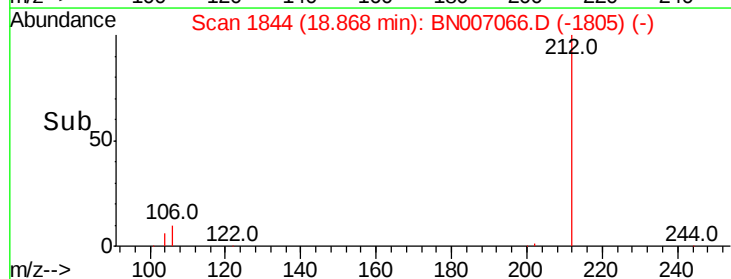
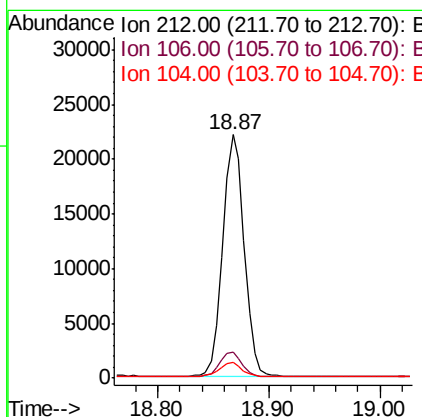
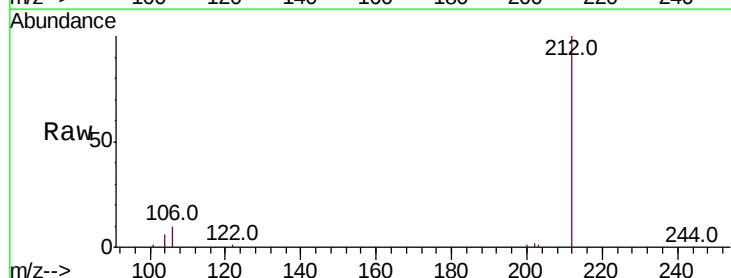
Instrument :
 BNA_N
 ClientSampleId :

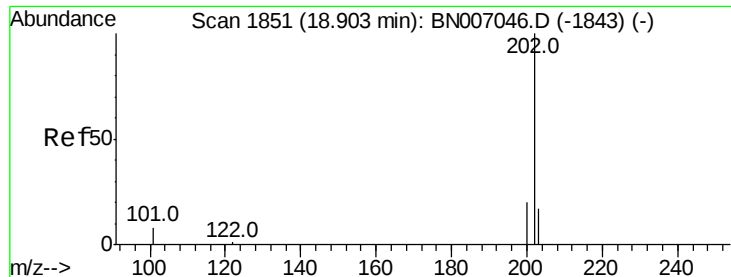
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	21.4	12.5	18.7#



#24
 Fluoranthene-d10
 Concen: 0.197 ng
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.00 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.2	8.2	12.2
104	5.8	4.5	6.7





#25

Fluoranthene

Concen: 1.099 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

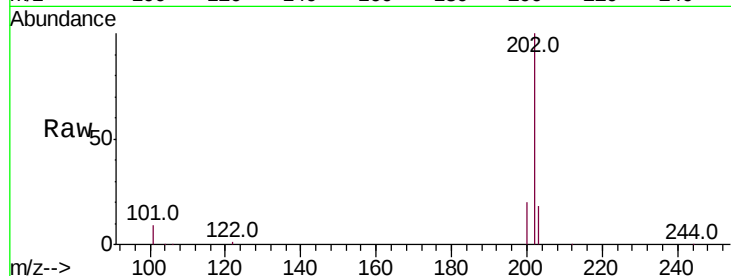
Tot Ion:202 Resp: 178106

Ion Ratio Lower Upper

202 100

101 8.7 7.0 10.4

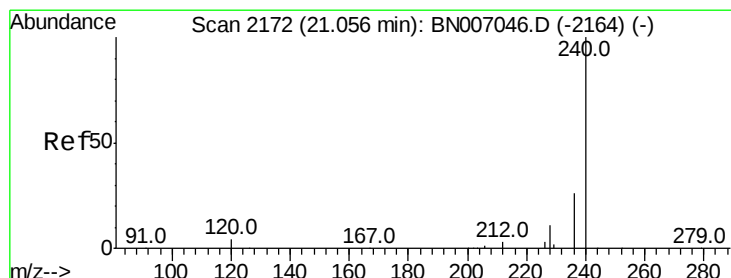
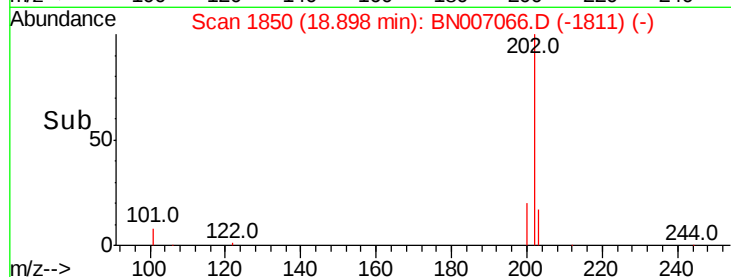
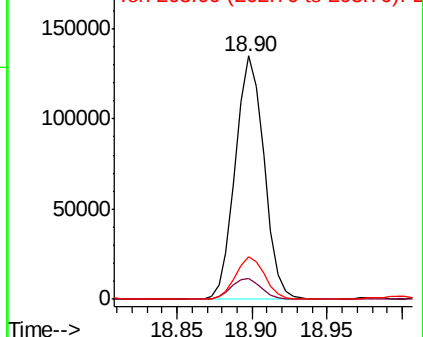
203 17.5 13.8 20.8



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: BN007066.D

Acq: 11 Aug 2019 01:59

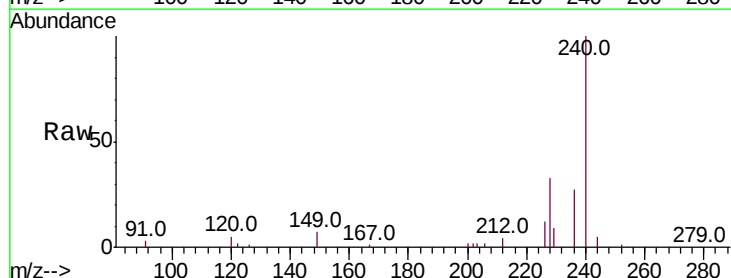
Tgt Ion:240 Resp: 44073

Ion Ratio Lower Upper

240 100

120 5.3 4.0 6.0

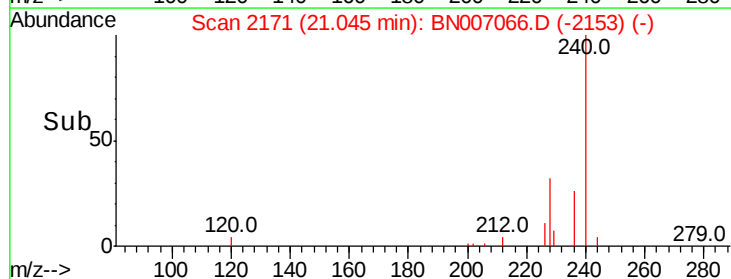
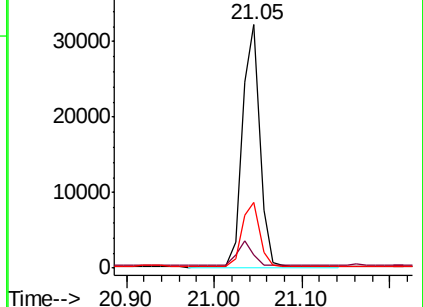
236 27.0 21.3 31.9

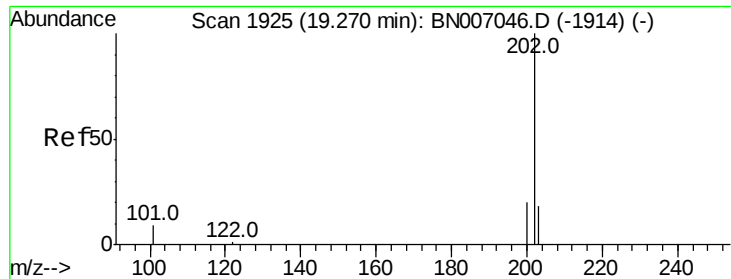


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

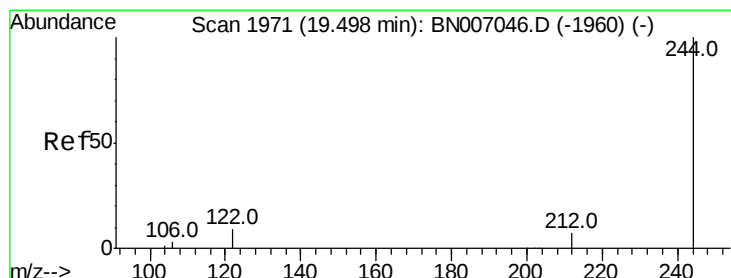
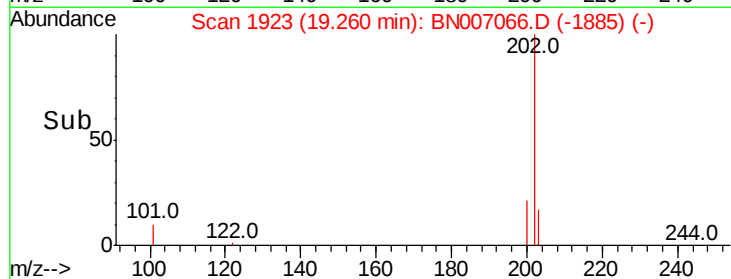
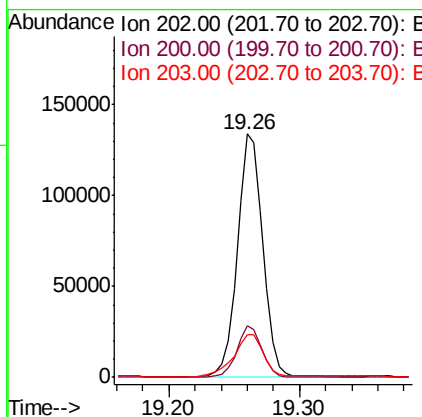
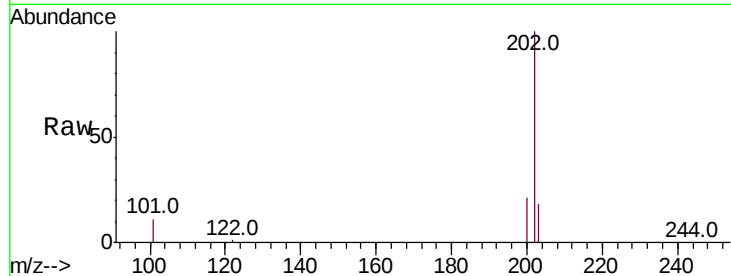




#27
Pvrene
Concen: 1.176 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

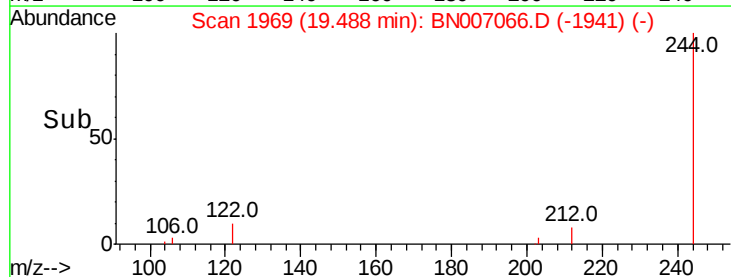
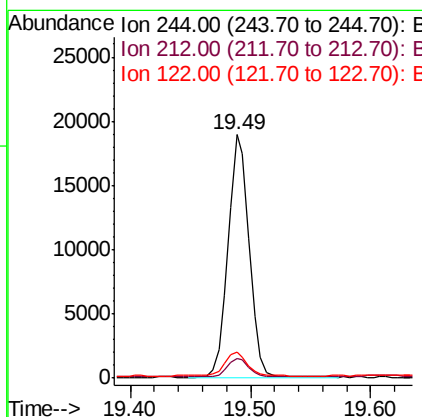
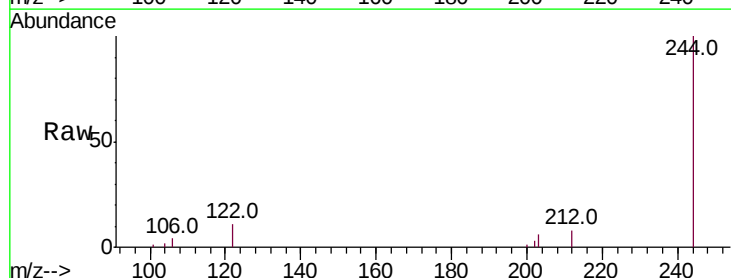
Instrument :
BNA_N
ClientSampleId :

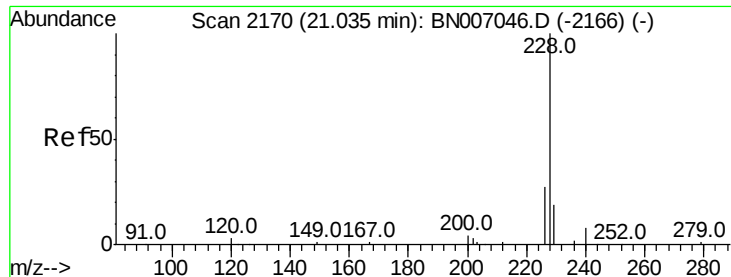
Tot Ion:202 Resp: 181771
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.8 14.0 21.0



#28
Terphenyl-d14
Concen: 0.190 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

Tgt Ion:244 Resp: 22798
Ion Ratio Lower Upper
244 100
212 8.2 6.2 9.2
122 10.8 7.4 11.2





#29

Benzo(a)anthracene

Concen: 0.543 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

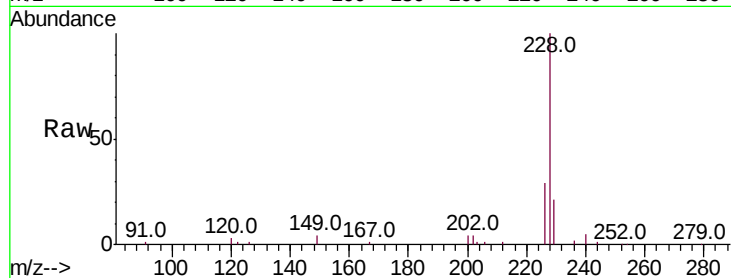
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 87563

Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.6
229	20.7	15.6	23.4

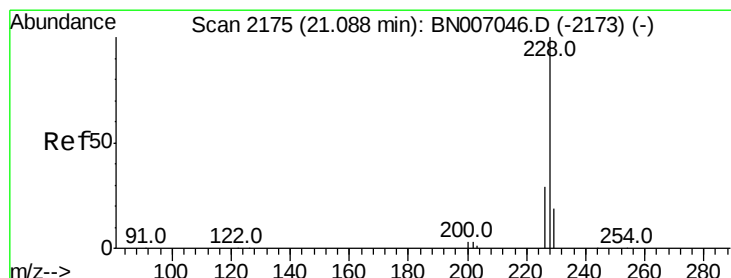
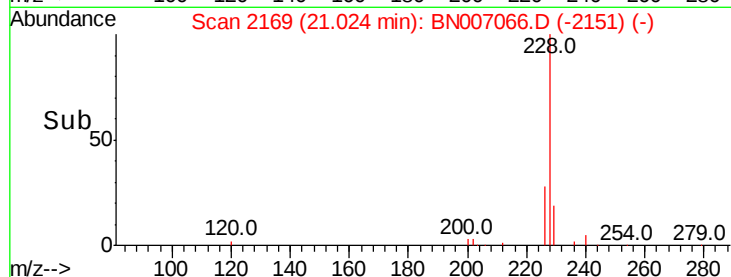
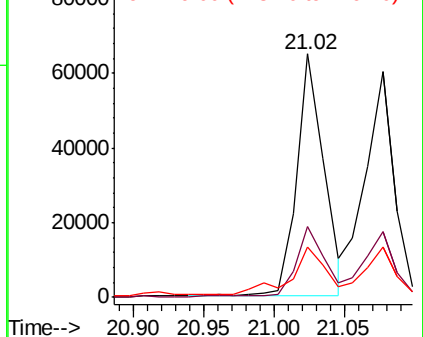


Abundance

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: 0.553 ng

RT: 21.08 min Scan# 2174

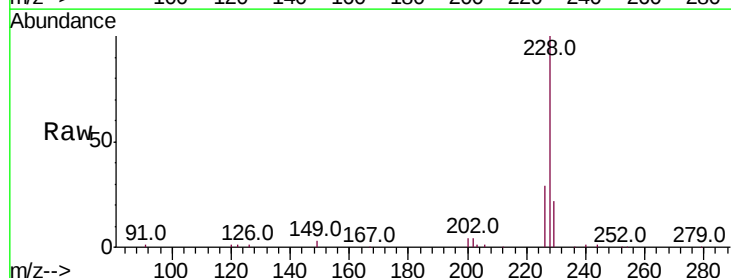
Delta R.T. -0.01 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Tgt Ion:228 Resp: 86649

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.8	35.6
229	22.5	15.7	23.5

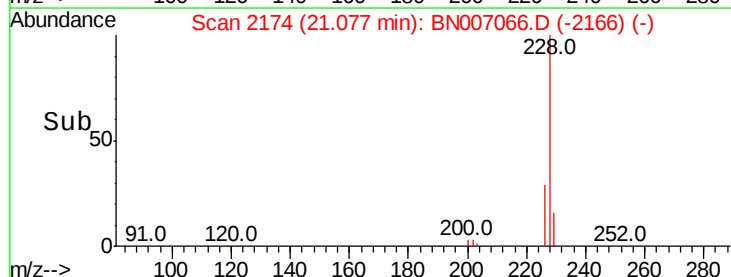
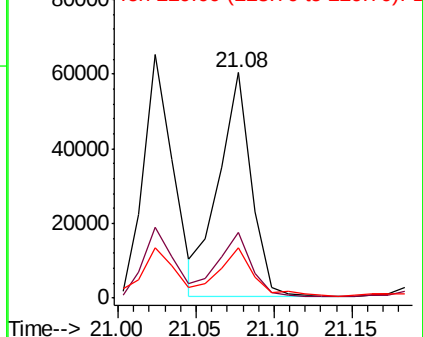


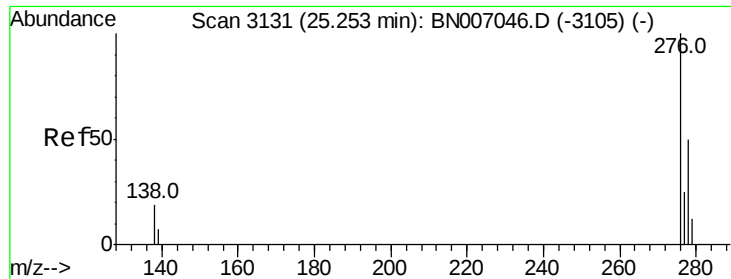
Abundance

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

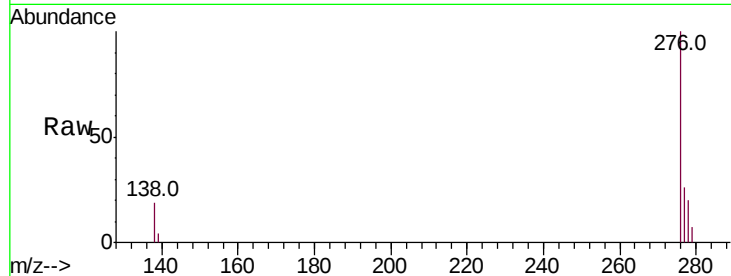




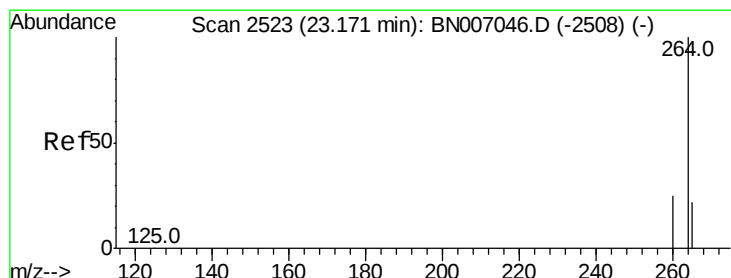
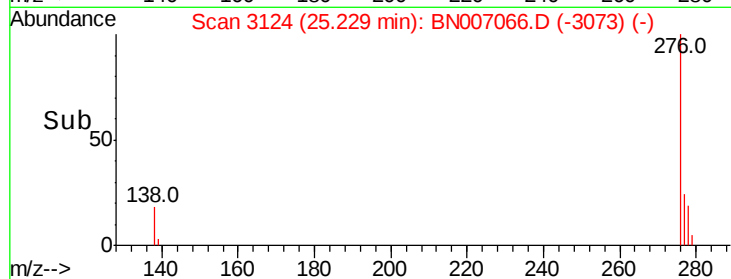
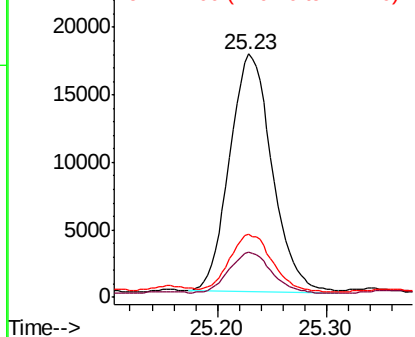
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.276 ng
 RT: 25.23 min Scan# 3124
 Delta R.T. -0.02 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 47668
 Ion Ratio Lower Upper
 276 100
 138 17.6 16.0 24.0
 277 24.3 19.9 29.9

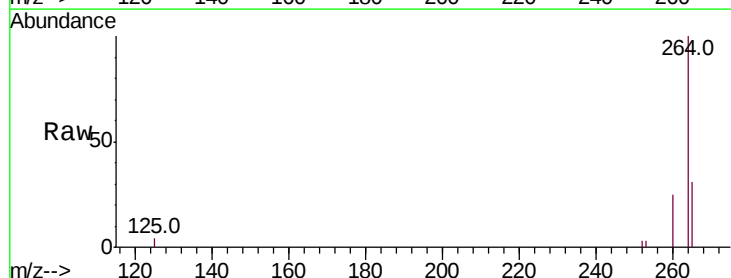


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

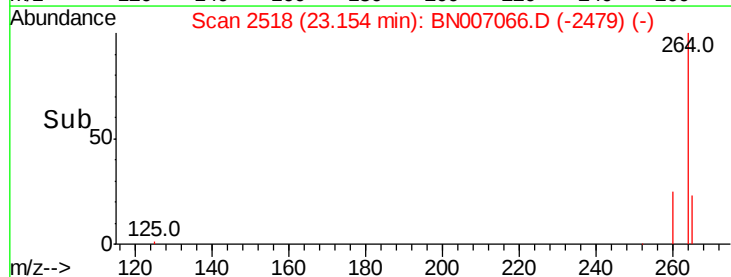
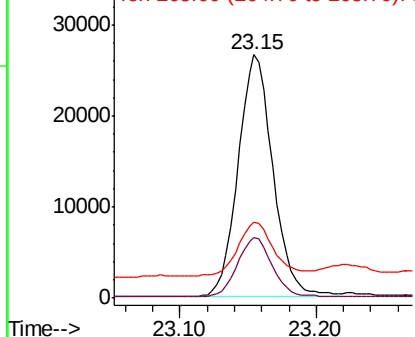


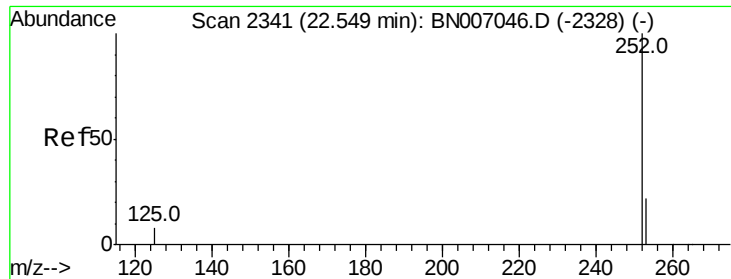
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007066.D
 Acq: 11 Aug 2019 01:59

Tgt Ion:264 Resp: 47000
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.8 29.8
 265 31.3 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

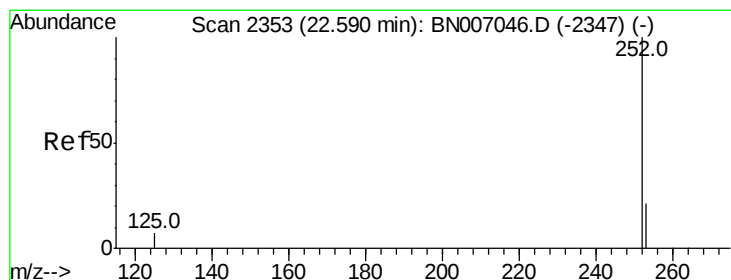
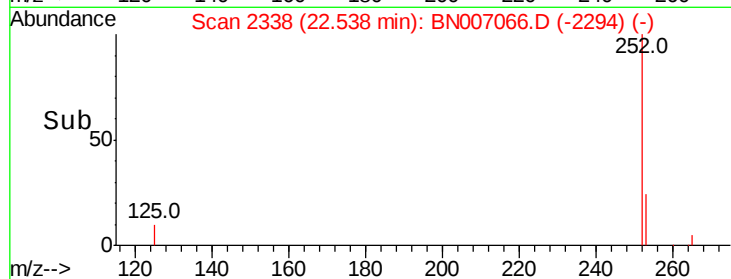
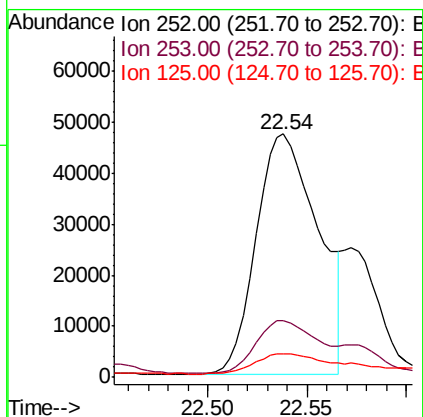
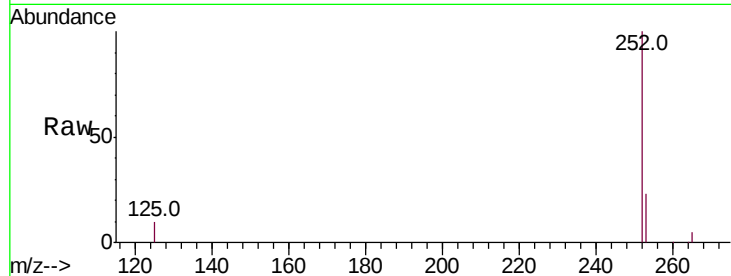




#33
Benzo(b)fluoranthene
Concen: 0.638 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

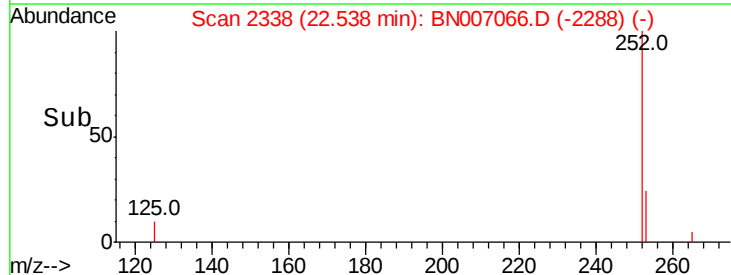
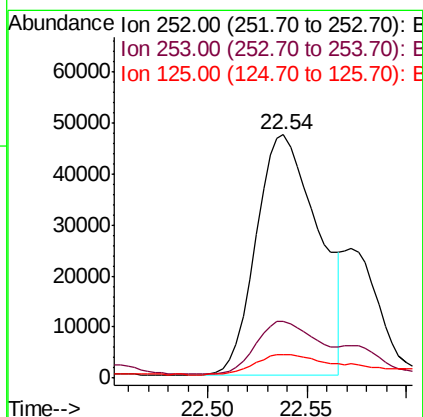
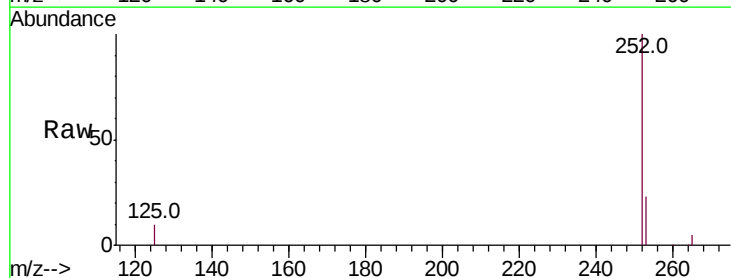
Instrument :
BNA_N
ClientSampleId :

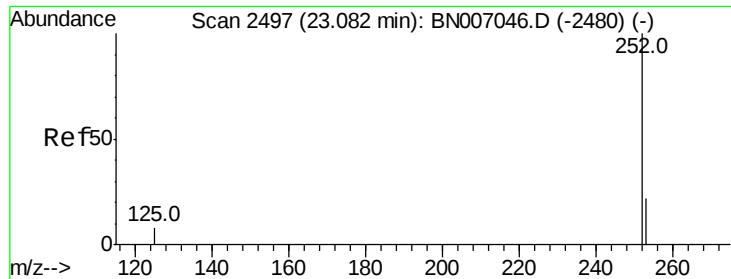
Tot Ion:252 Resp: 102766
Ion Ratio Lower Upper
252 100
253 23.4 18.2 27.2
125 9.6 7.4 11.0



#34
Benzo(k)fluoranthene
Concen: 0.646 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007066.D
Acq: 11 Aug 2019 01:59

Tgt Ion:252 Resp: 102766
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 9.6 7.4 11.0





#35

Benzo(a)pyrene

Concen: 0.520 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :

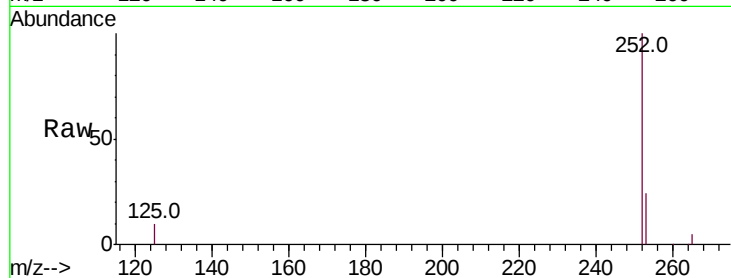
Tot Ion:252 Resp: 75984

Ion Ratio Lower Upper

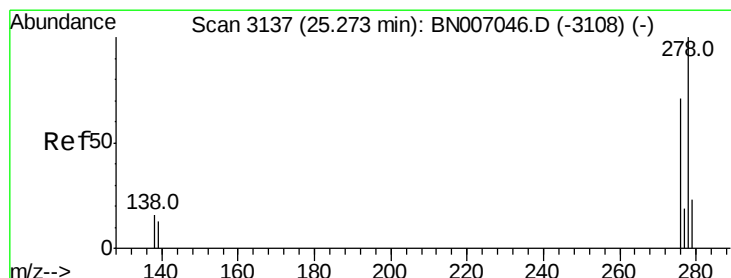
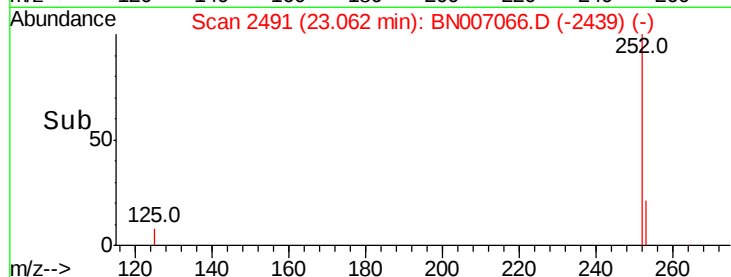
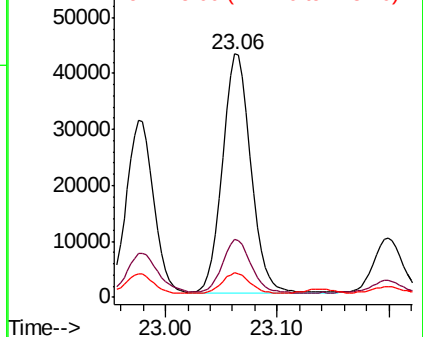
252 100

253 23.6 18.5 27.7

125 10.0 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: 0.085 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

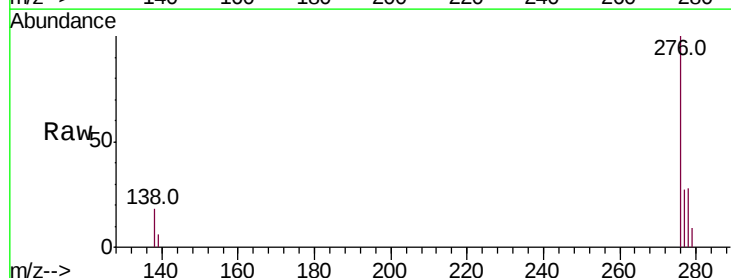
Tgt Ion:278 Resp: 12341

Ion Ratio Lower Upper

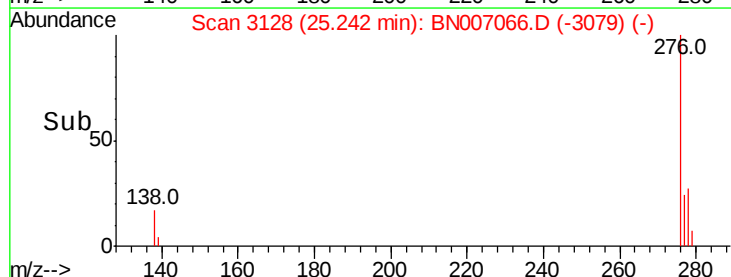
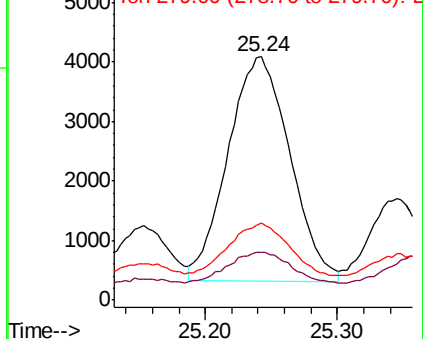
278 100

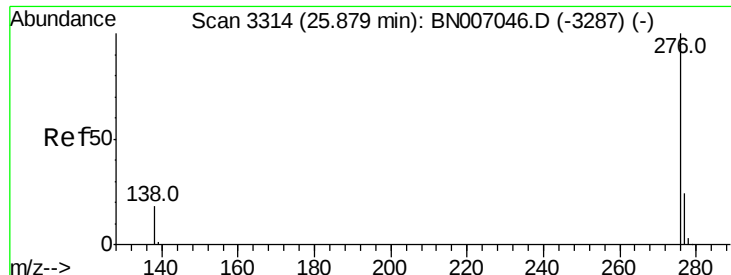
139 19.5 11.3 16.9#

279 31.5 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: 0.355 ng

RT: 25.85 min Scan# 3307

Delta R.T. -0.02 min

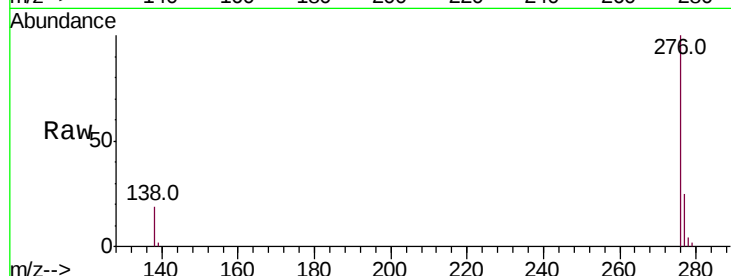
Lab File: BN007066.D

Acq: 11 Aug 2019 01:59

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 53193

Ion Ratio Lower Upper

276 100

277 25.3 19.8 29.8

138 18.5 14.6 22.0

