

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007061.D
 Acq On : 10 Aug 2019 22:58
 Operator : HP/JU
 Sample : K4143-12
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:38:27 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	8569	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32979	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	18762	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	45458	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48432	0.40	ng	-0.01
32) Perylene-d12	23.16	264	53255	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	4760	0.23	ng	0.00
4) Phenol-d6	6.61	99	6395	0.25	ng	0.00
7) Nitrobenzene-d5	8.56	82	4917	0.18	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	11673	0.19	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1434	0.14	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	5047	0.19	ng	0.00
24) Fluoranthene-d10	18.87	212	30124	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	23592	0.18	ng	0.00

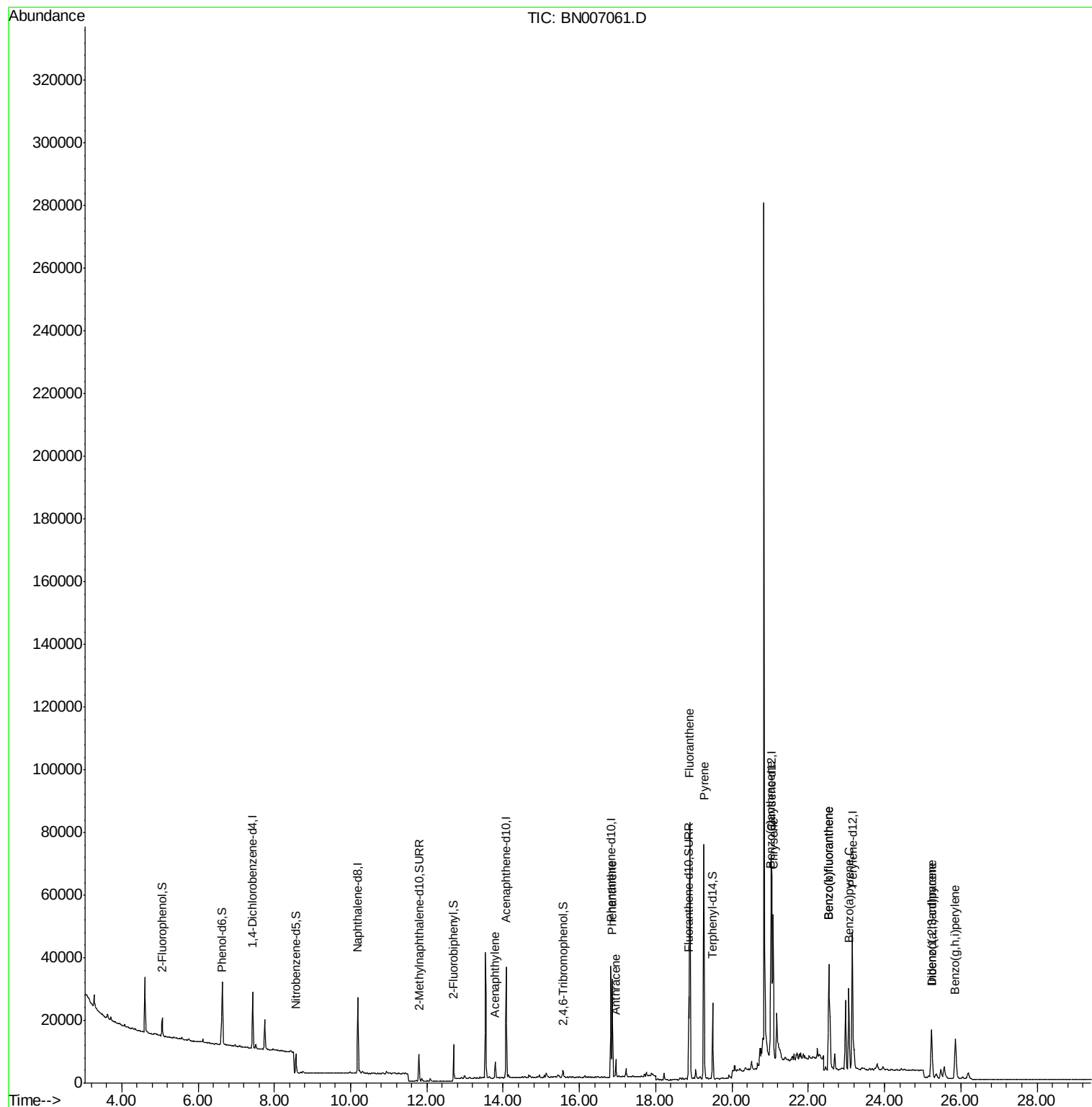
Target Compounds				Qvalue		
15) Acenaphthylene	13.79	152	6829	0.070	ng	100
22) Phenanthrene	16.87	178	31512	0.231	ng	100
23) Anthracene	16.96	178	6141	0.049	ng	# 95
25) Fluoranthene	18.90	202	74675	0.429	ng	100
27) Pyrene	19.26	202	70684	0.416	ng	97
29) Benzo(a)anthracene	21.02	228	33796	0.191	ng	94
30) Chrysene	21.08	228	42057	0.244	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	25615	0.135	ng	97
33) Benzo(b)fluoranthene	22.54	252	55007	0.301	ng	97
34) Benzo(k)fluoranthene	22.54	252	55007	0.305	ng	97
35) Benzo(a)pyrene	23.07	252	33248	0.201	ng	97
36) Dibenzo(a,h)anthracene	25.24	278	6522	0.039	ng	# 77
37) Benzo(a,h,i)perylene	25.86	276	26610	0.157	ng	96

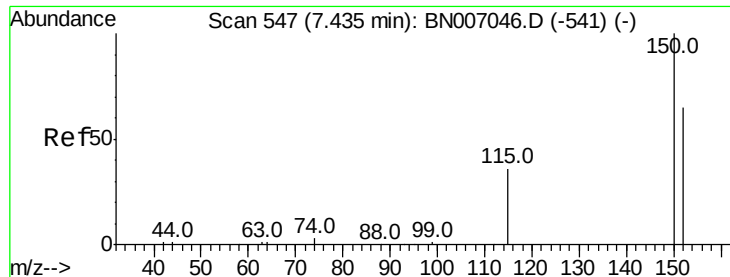
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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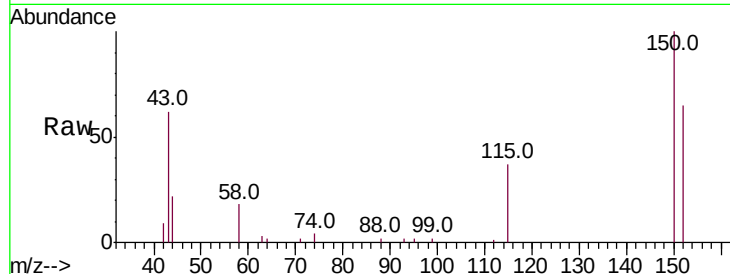


#1

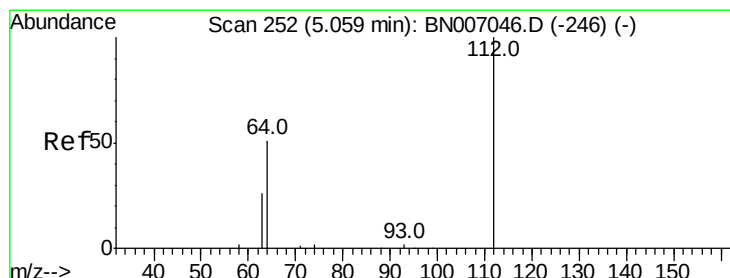
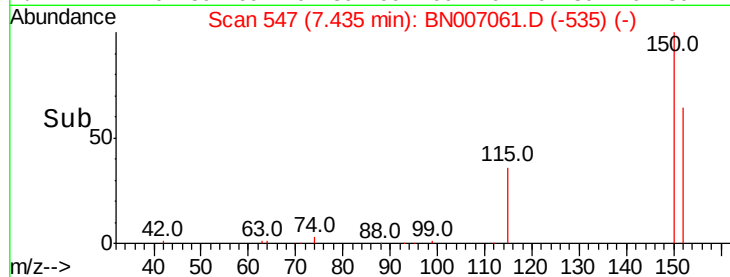
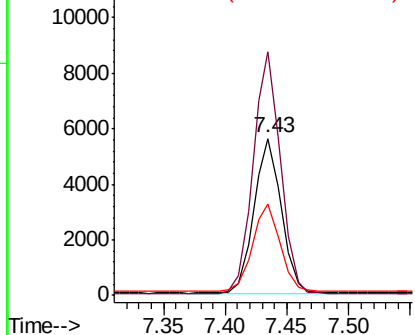
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 8569
Ion Ratio Lower Upper
152 100
150 154.9 121.7 182.5
115 58.0 46.2 69.4



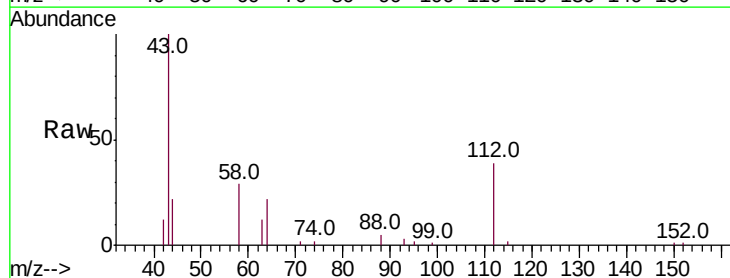
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



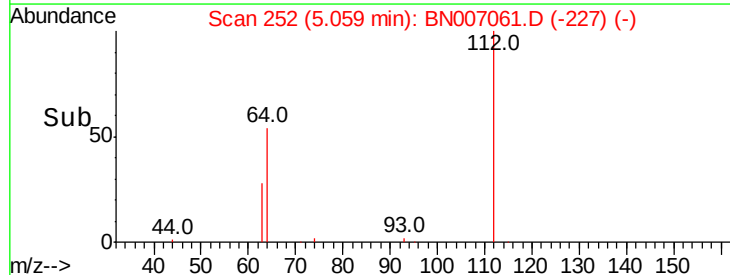
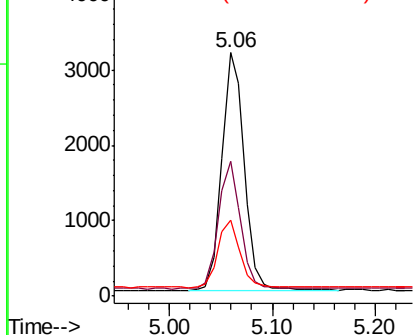
#3

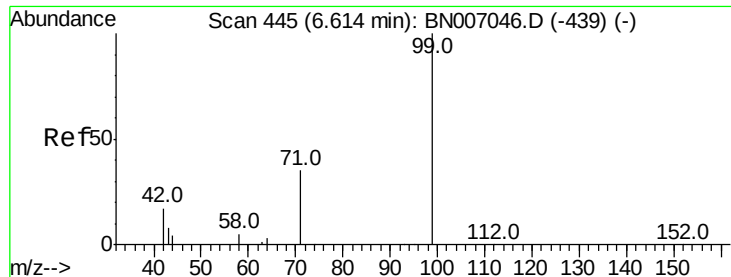
2-Fluorophenol
Concen: 0.231 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

Tgt Ion:112 Resp: 4760
Ion Ratio Lower Upper
112 100
64 52.9 42.6 63.8
63 28.0 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: 0.251 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampled :

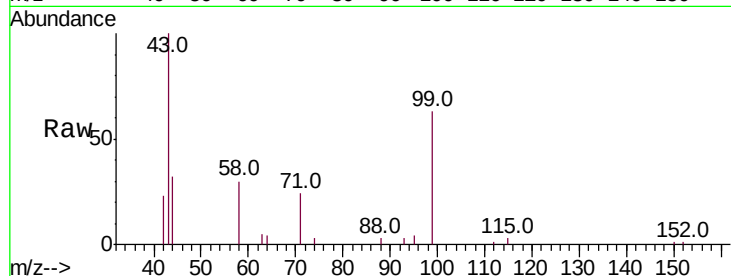
Tot Ion: 99 Resp: 6395

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

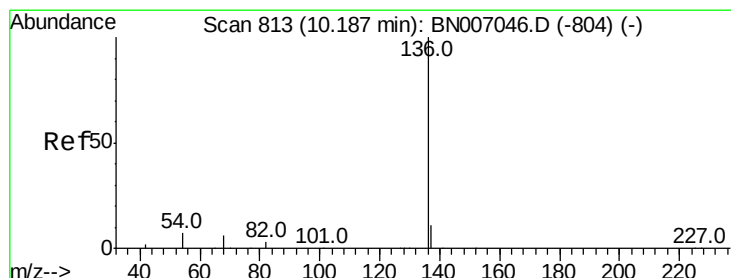
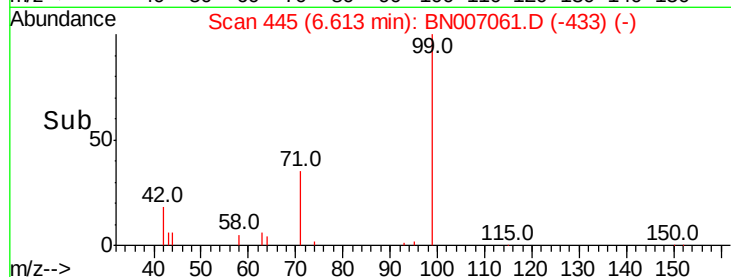
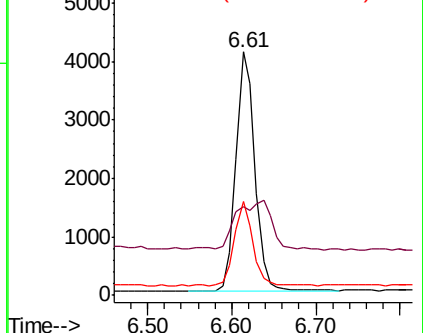
71 35.0 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Tgt Ion: 136 Resp: 32979

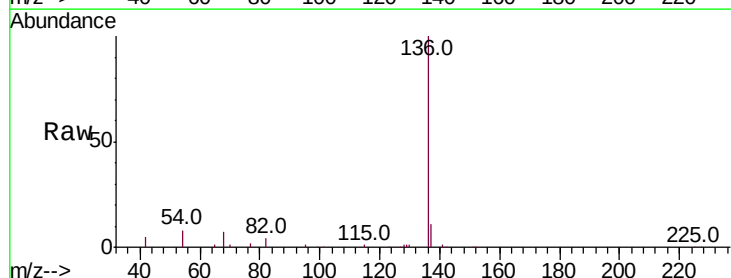
Ion Ratio Lower Upper

136 100

137 11.1 9.4 14.0

54 7.6 6.6 9.8

68 6.8 6.0 9.0

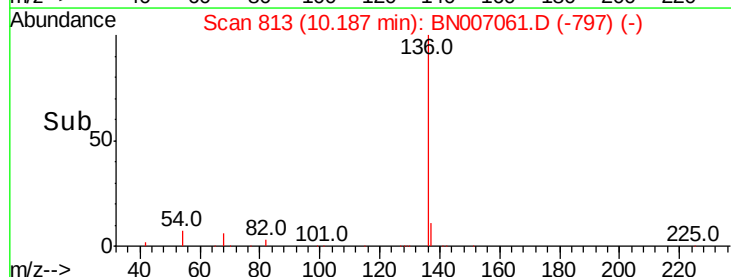
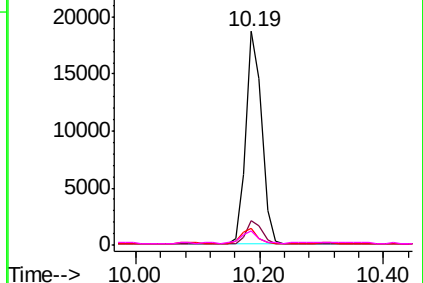


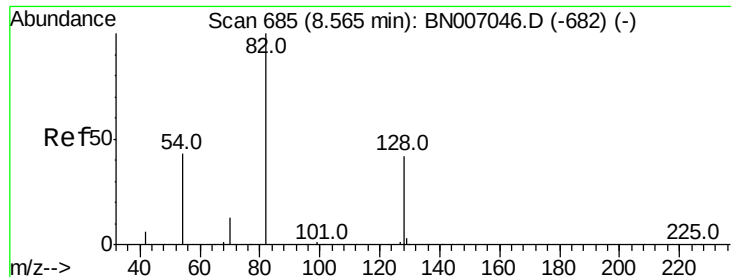
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.185 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

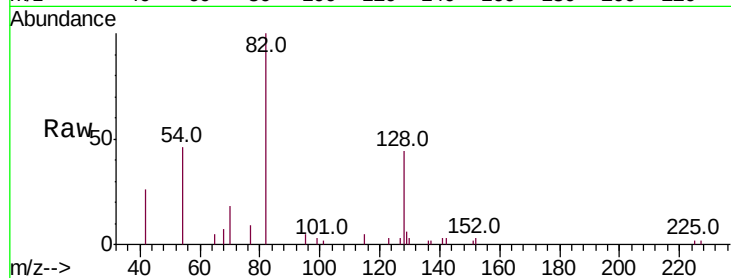
Tot Ion: 82 Resp: 4917

Ion Ratio Lower Upper

82 100

128 44.2 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

3000

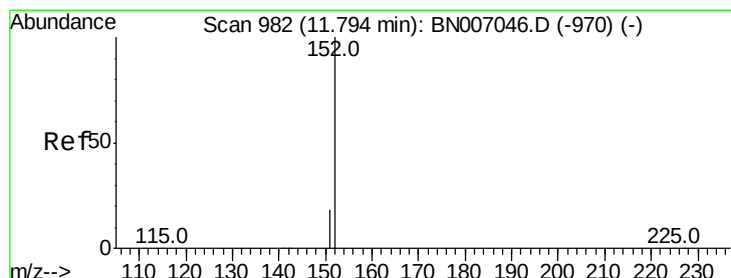
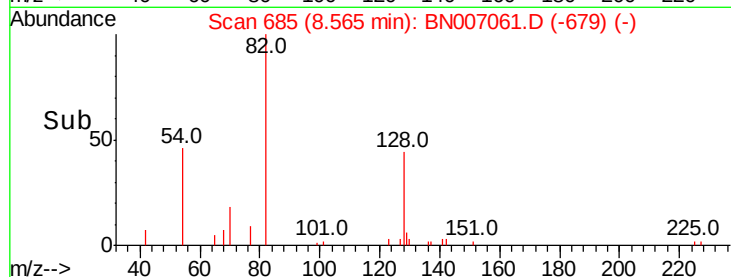
2000

1000

0

8.50 8.55 8.60 8.65

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.190 ng

RT: 11.79 min Scan# 982

Delta R.T. -0.00 min

Lab File: BN007061.D

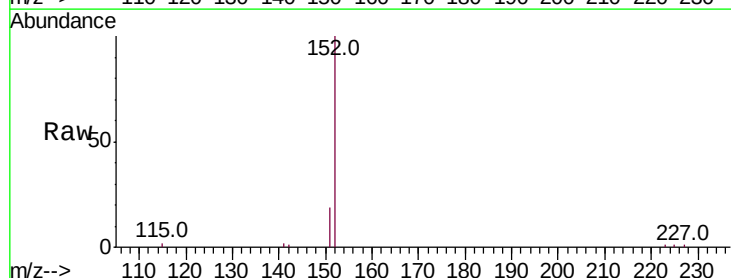
Acq: 10 Aug 2019 22:58

Tgt Ion: 152 Resp: 11673

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)

11.79

8000

6000

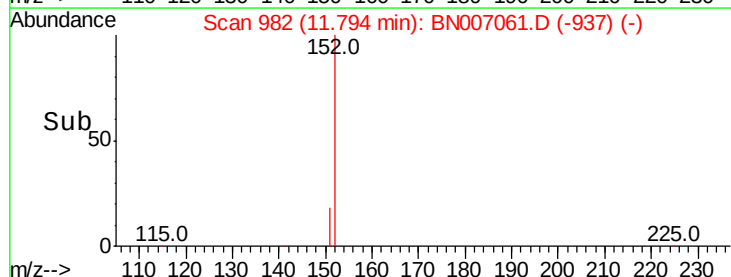
4000

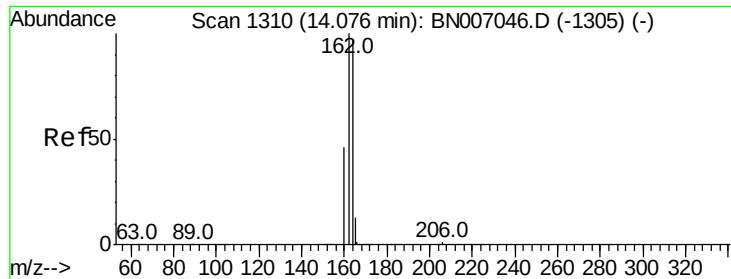
2000

0

11.70 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: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

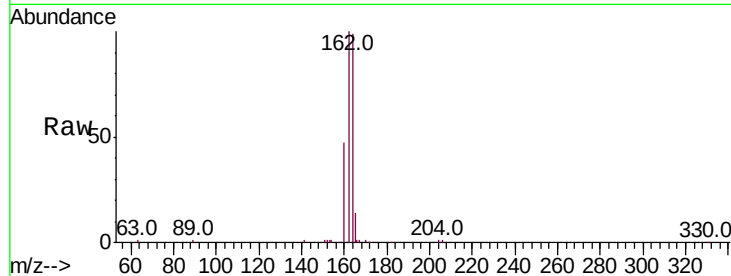
Tot Ion:164 Resp: 18762

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.4

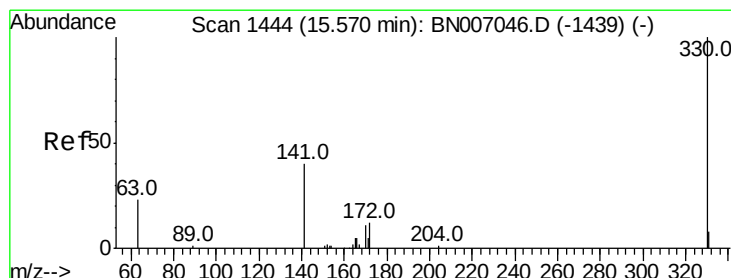
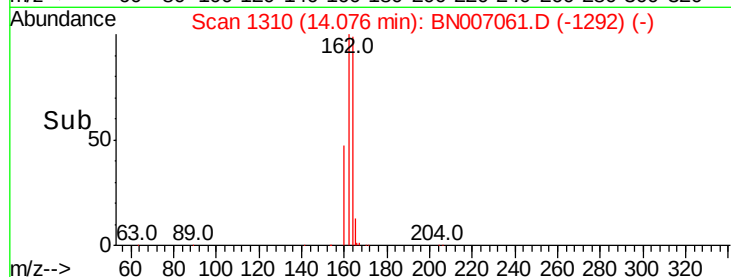
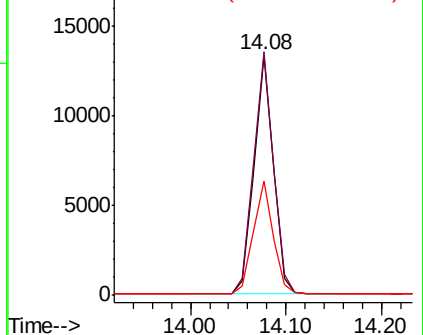
160 47.5 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.142 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

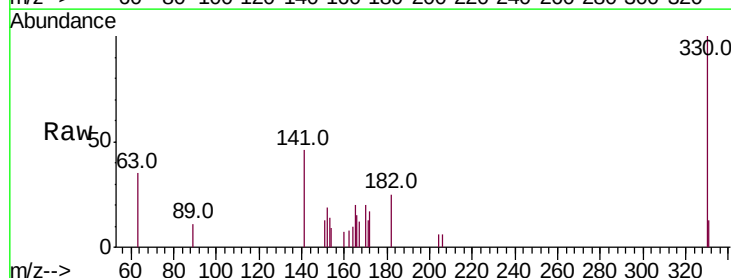
Tgt Ion:330 Resp: 1434

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

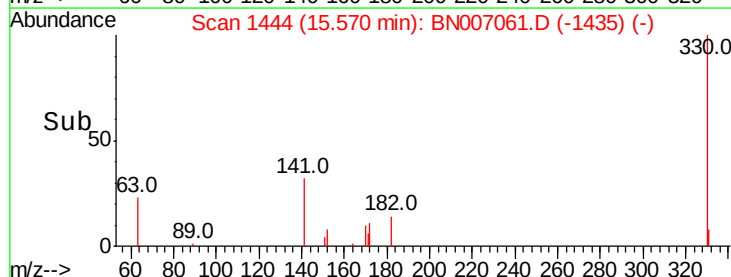
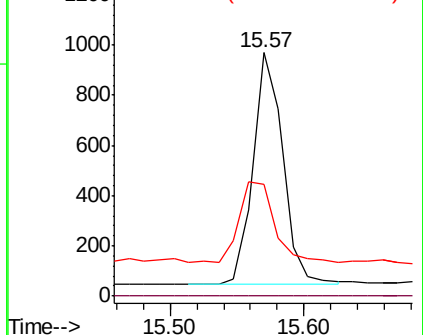
141 40.3 33.6 50.4

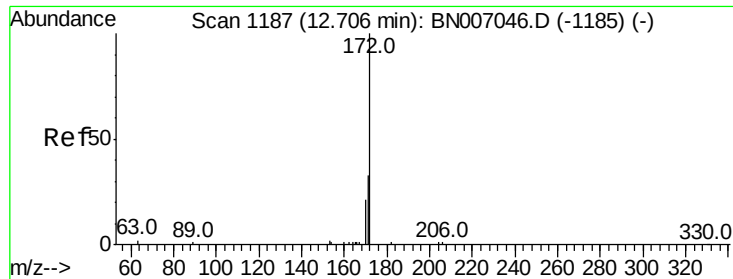


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

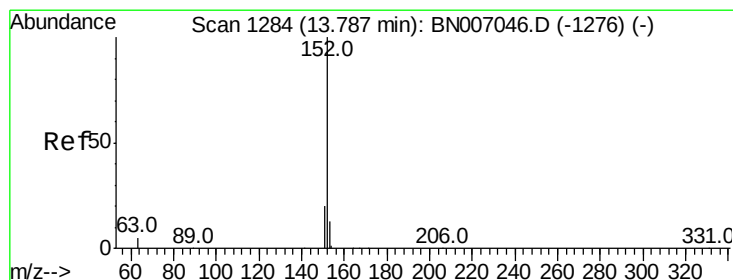
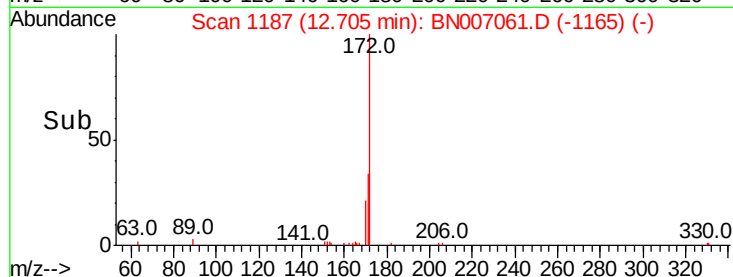
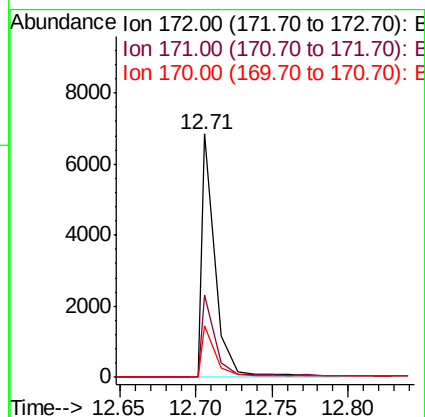
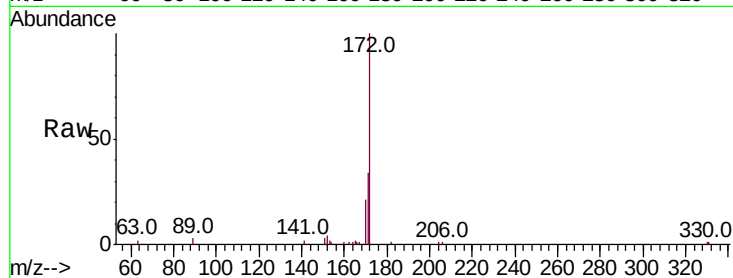




#14
2-Fluorobiphenyl
Concen: 0.185 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

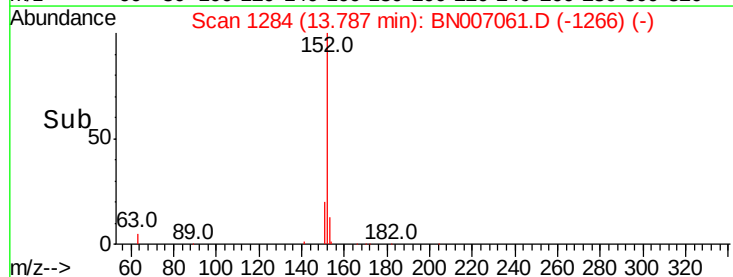
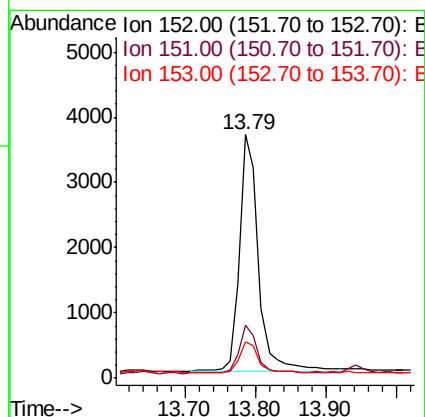
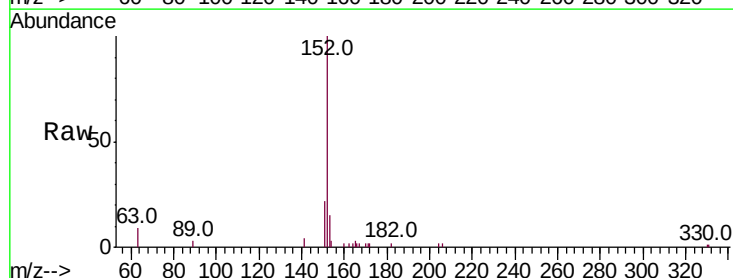
Instrument :
BNA_N
ClientSampleId :

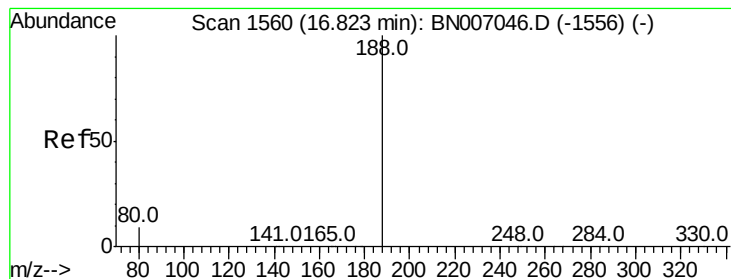
Tot Ion:172 Resp: 5047
Ion Ratio Lower Upper
172 100
171 33.8 26.3 39.5
170 21.3 17.0 25.4



#15
Acenaphthylene
Concen: 0.070 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

Tgt Ion:152 Resp: 6829
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 12.6 10.4 15.6





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

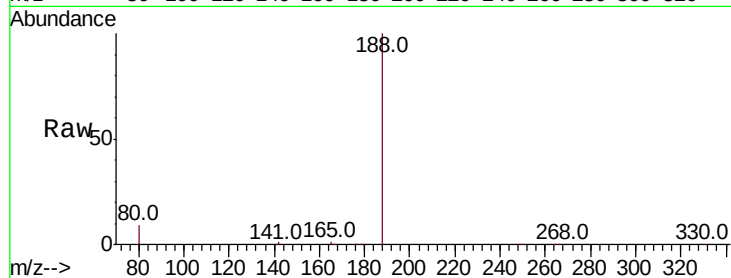
Tot Ion:188 Resp: 45458

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

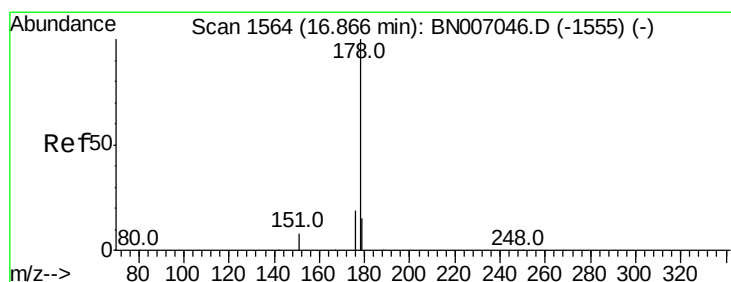
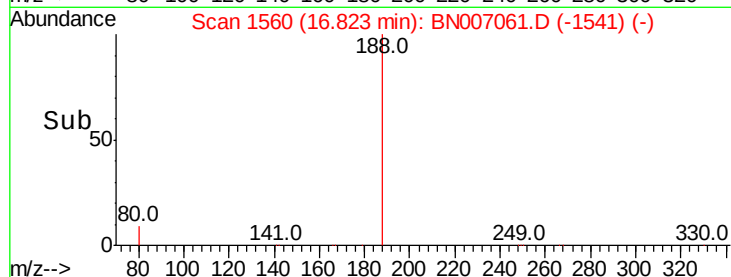
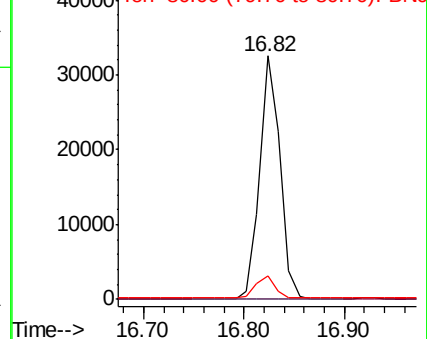
80 9.5 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 0.231 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

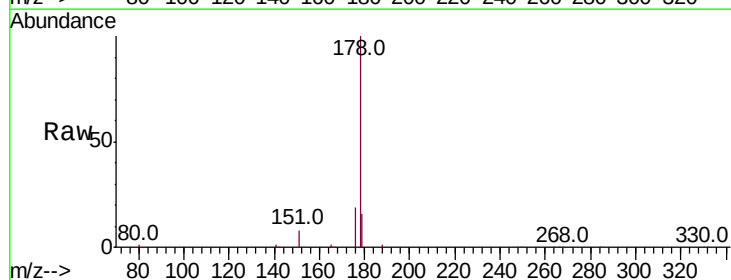
Tgt Ion:178 Resp: 31512

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

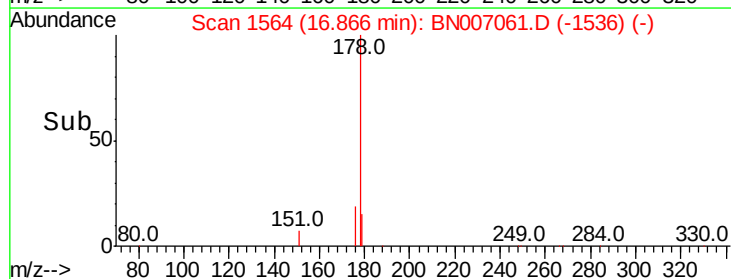
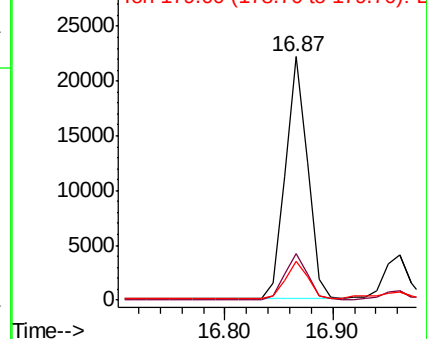
179 15.7 12.3 18.5

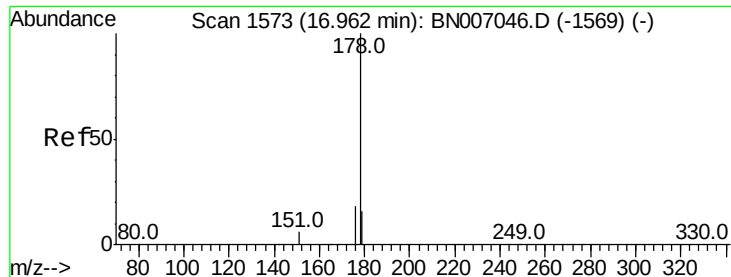


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.049 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampled :

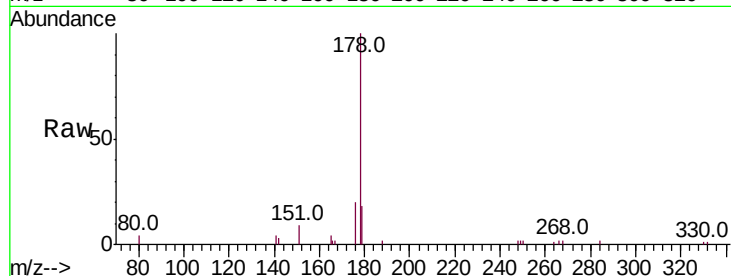
Tot Ion:178 Resp: 6141

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

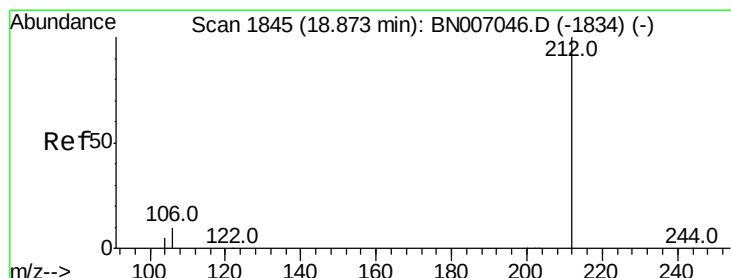
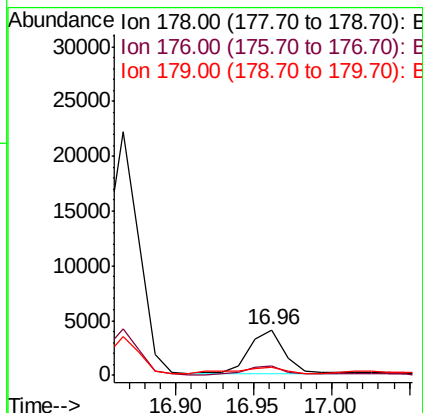
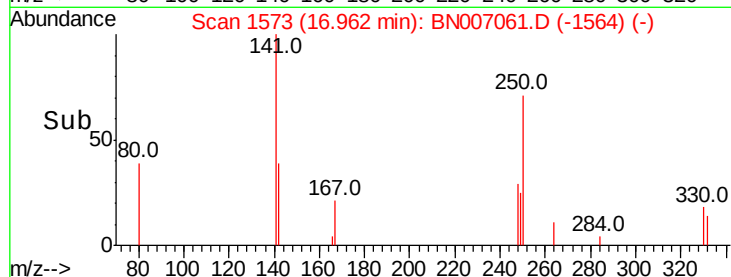
179 19.5 12.5 18.7#



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: 0.187 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

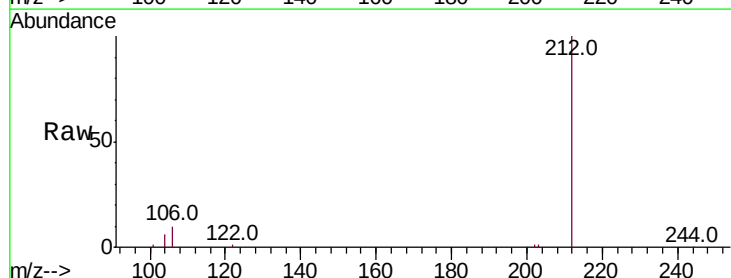
Tgt Ion:212 Resp: 30124

Ion Ratio Lower Upper

212 100

106 10.2 8.2 12.2

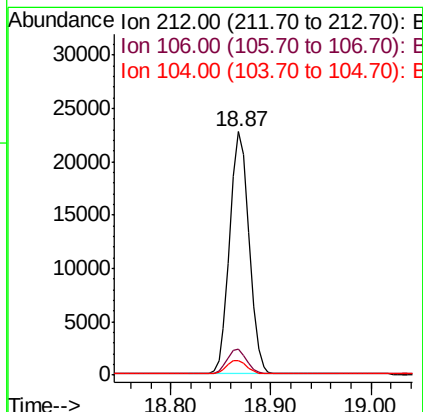
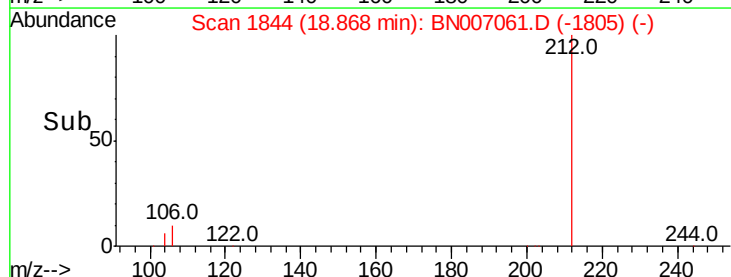
104 5.8 4.5 6.7

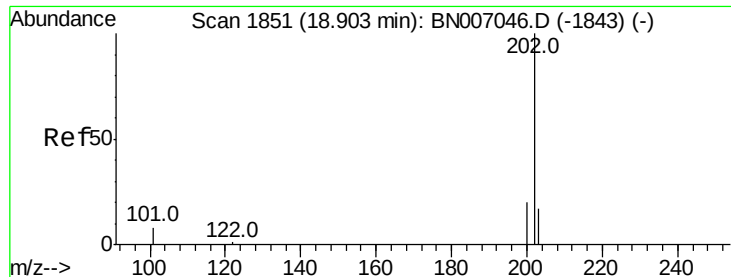


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.429 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

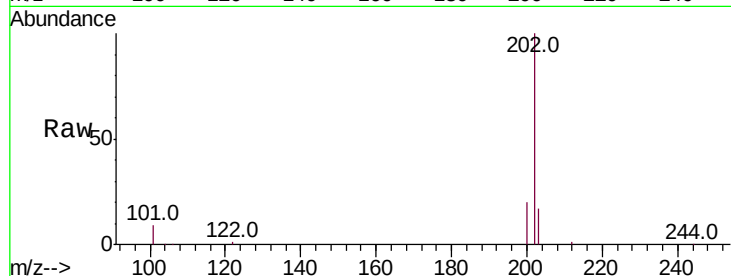
Instrument :

BNA_N

ClientSampleId :

Tot Ion:202 Resp: 74675

Ion	Ratio	Lower	Upper
202	100		
101	8.5	7.0	10.4
203	17.4	13.8	20.8

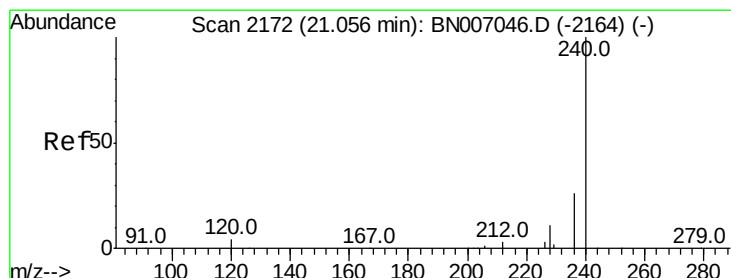
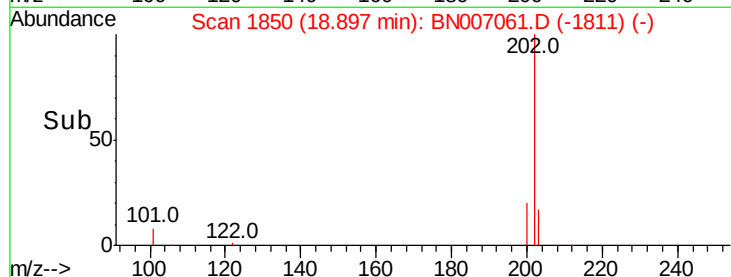
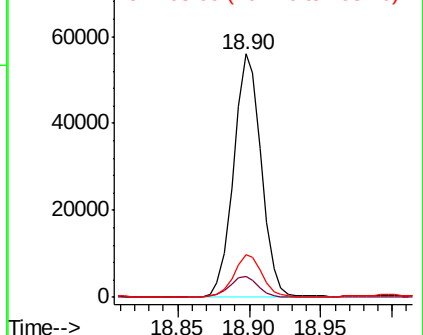


Abundance

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

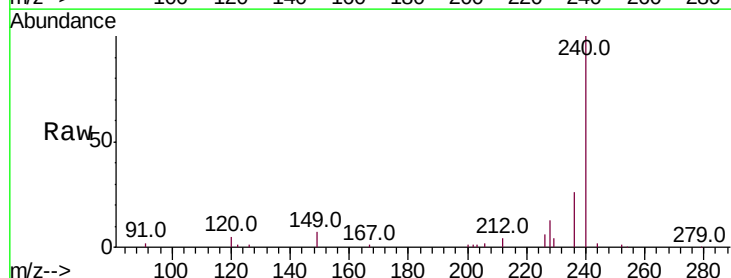
Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Tgt Ion:240 Resp: 48432

Ion	Ratio	Lower	Upper
240	100		
120	4.9	4.0	6.0
236	26.5	21.3	31.9

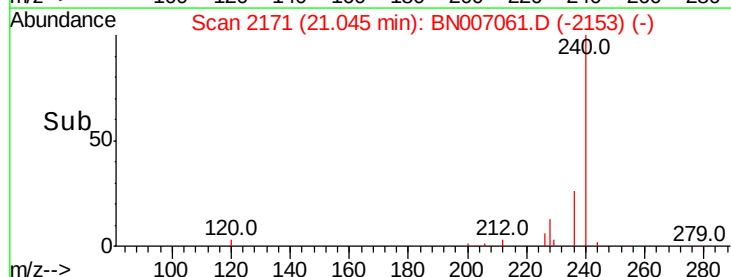
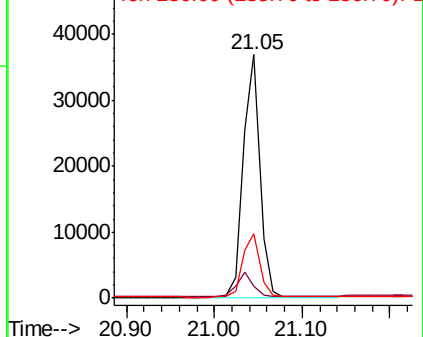


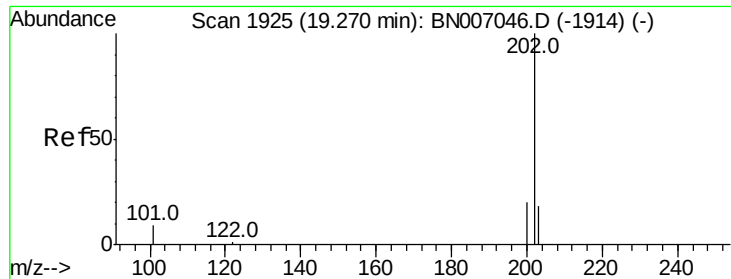
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

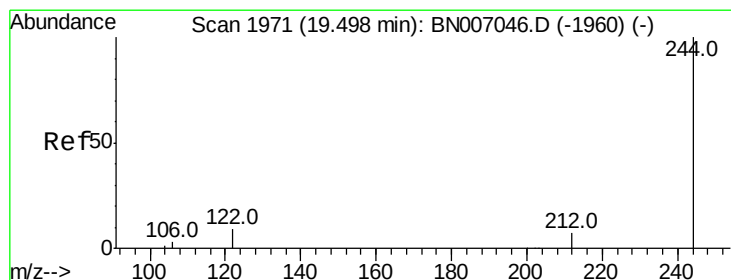
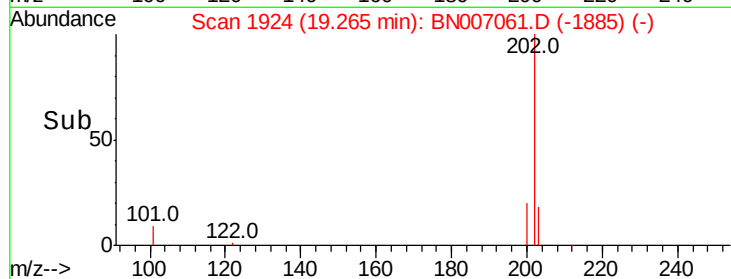
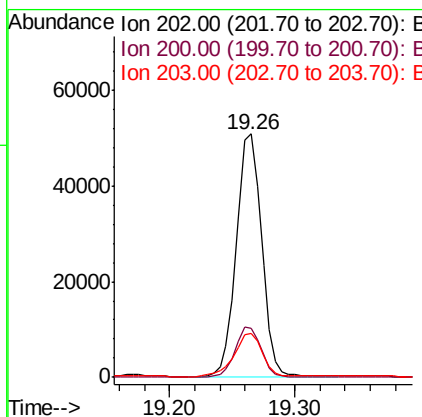
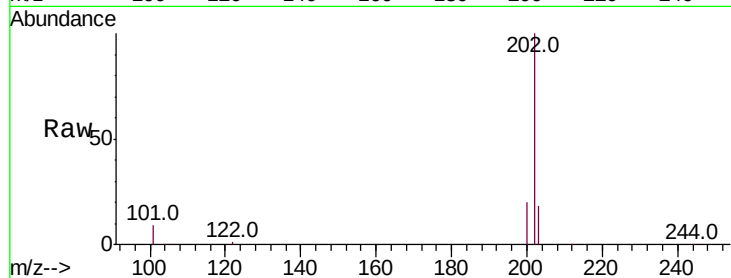




#27
Pvrene
Concen: 0.416 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

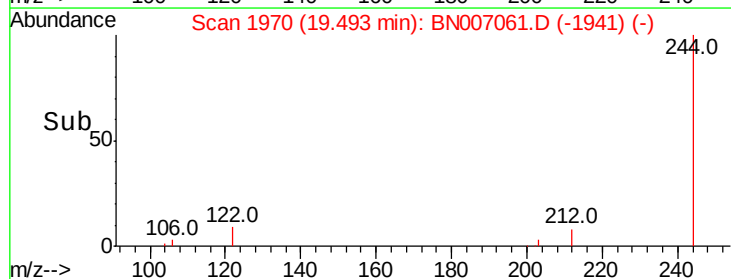
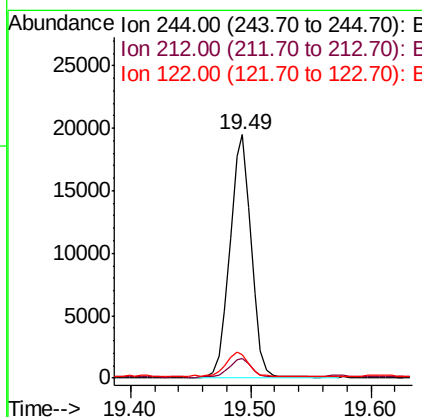
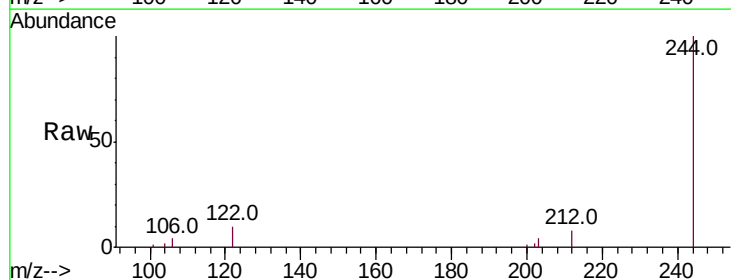
Instrument :
BNA_N
ClientSampleId :

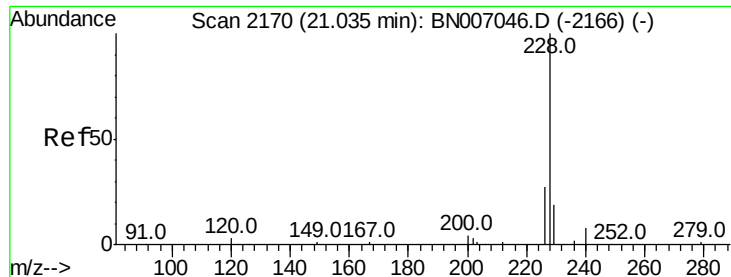
Tot Ion:202 Resp: 70684
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 20.2 14.0 21.0



#28
Terphenyl-d14
Concen: 0.179 ng
RT: 19.49 min Scan# 1970
Delta R.T. -0.01 min
Lab File: BN007061.D
Acq: 10 Aug 2019 22:58

Tgt Ion:244 Resp: 23592
Ion Ratio Lower Upper
244 100
212 8.0 6.2 9.2
122 9.6 7.4 11.2





#29

Benzo(a)anthracene

Concen: 0.191 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

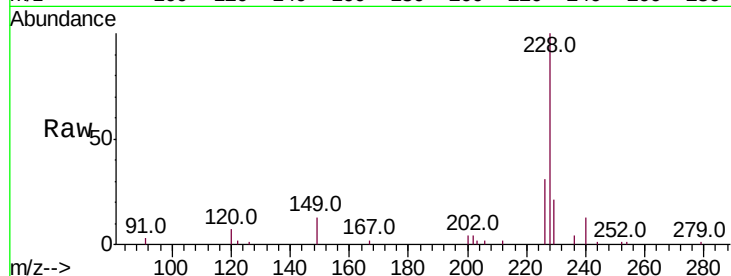
Tot Ion:228 Resp: 33796

Ion Ratio Lower Upper

228 100

226 31.3 21.8 32.6

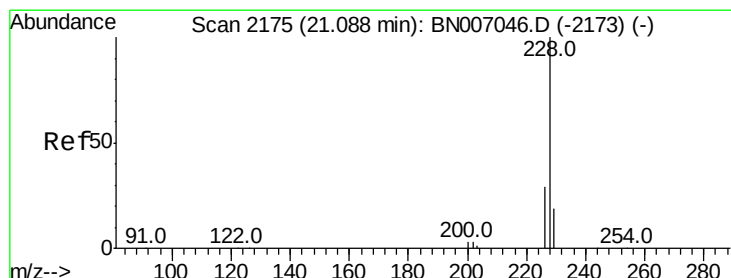
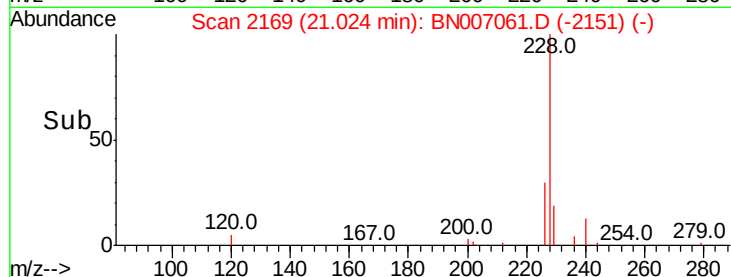
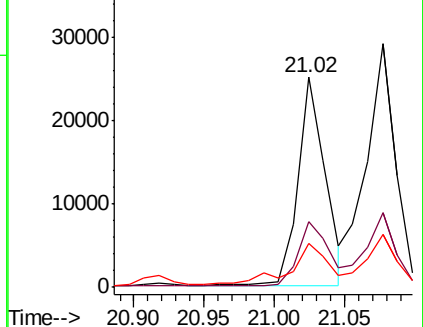
229 21.1 15.6 23.4



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: 0.244 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

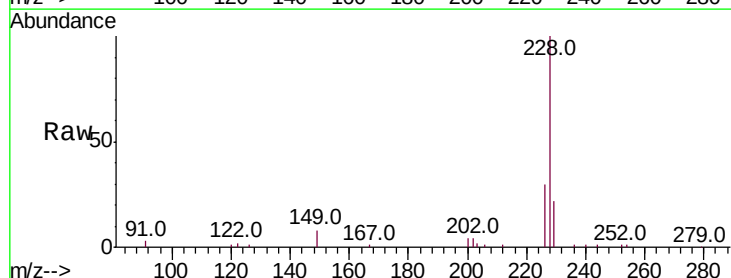
Tgt Ion:228 Resp: 42057

Ion Ratio Lower Upper

228 100

226 30.4 23.8 35.6

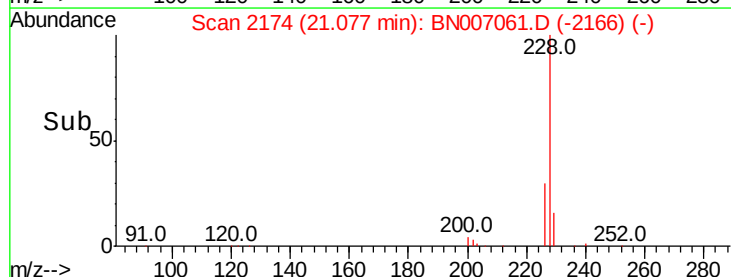
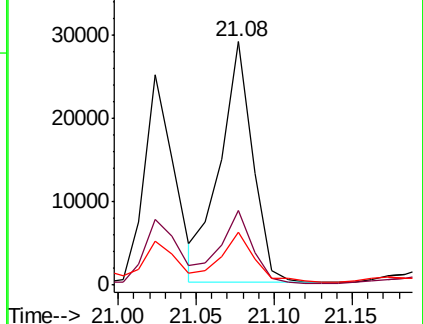
229 22.0 15.7 23.5

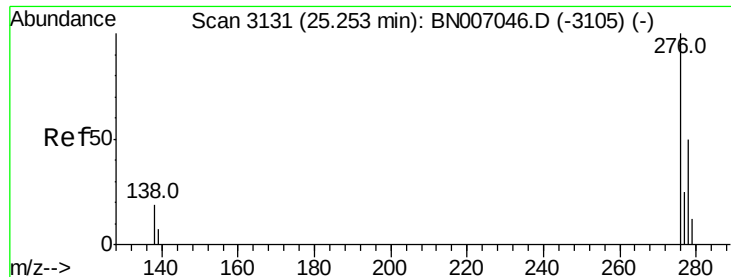


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.135 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

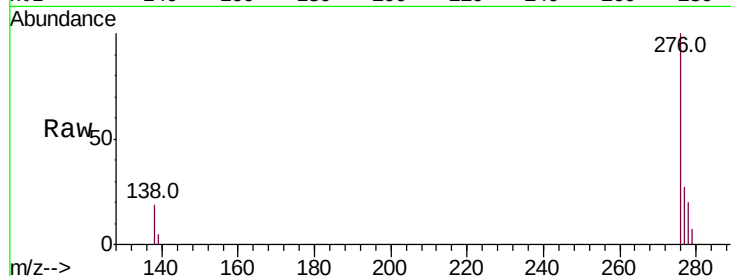
Tot Ion:276 Resp: 25615

Ion Ratio Lower Upper

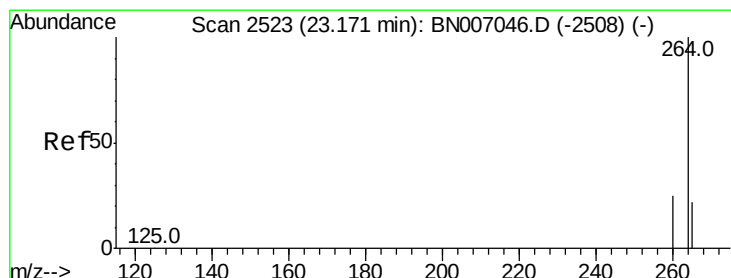
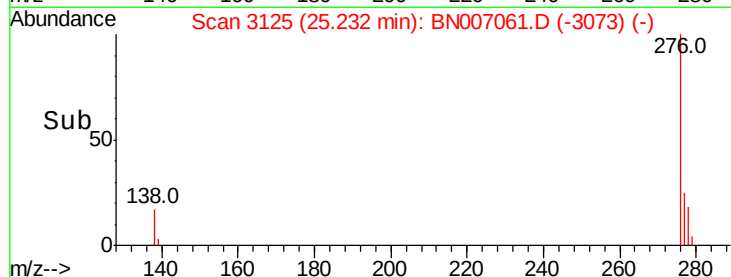
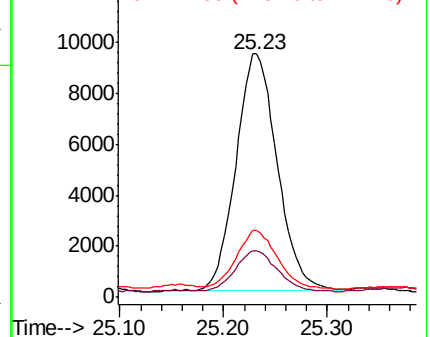
276 100

138 17.8 16.0 24.0

277 24.5 19.9 29.9



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



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

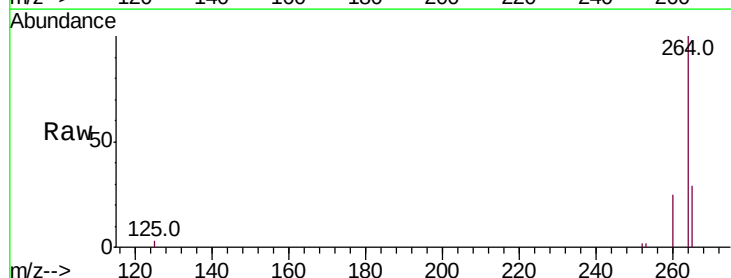
Tgt Ion:264 Resp: 53255

Ion Ratio Lower Upper

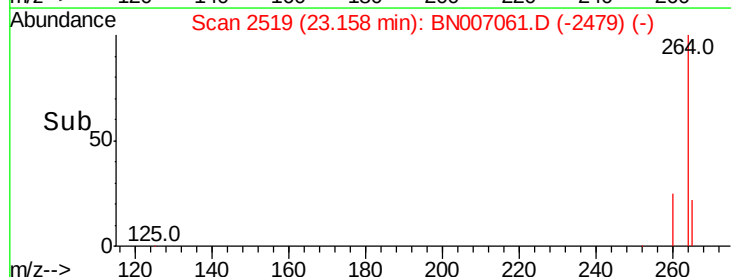
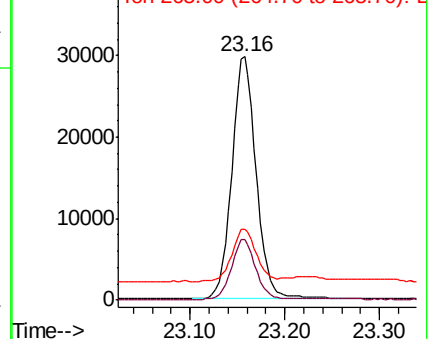
264 100

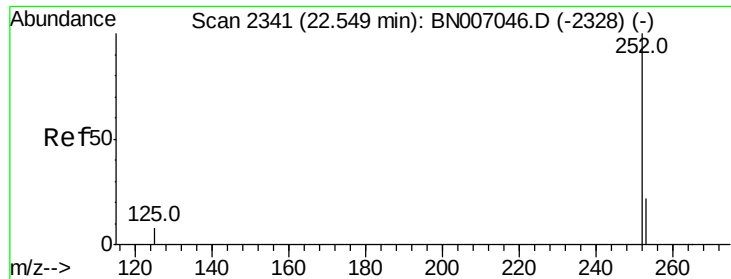
260 24.8 19.8 29.8

265 29.1 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: 0.301 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

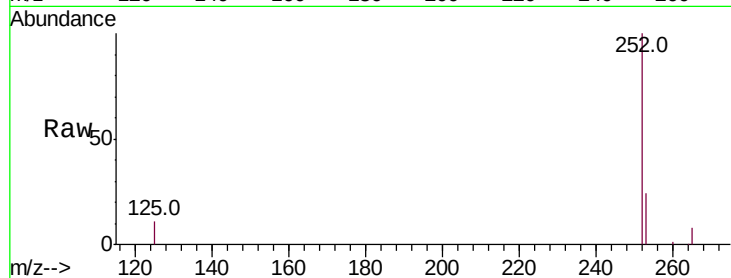
Tot Ion:252 Resp: 55007

Ion Ratio Lower Upper

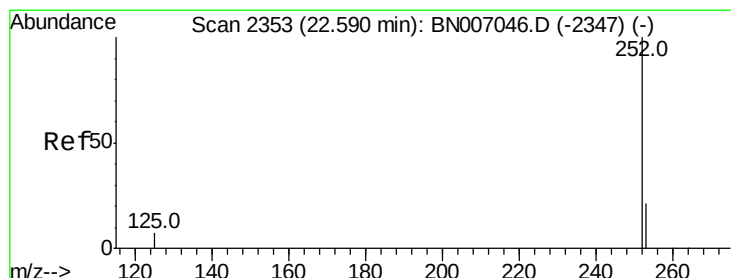
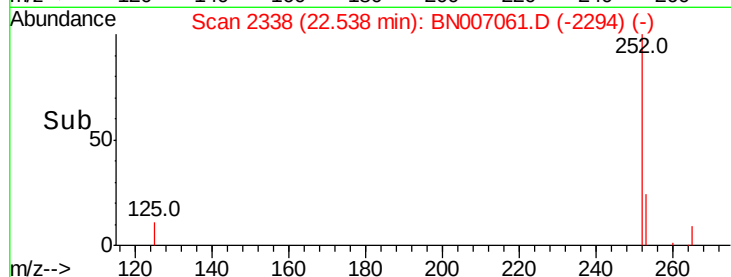
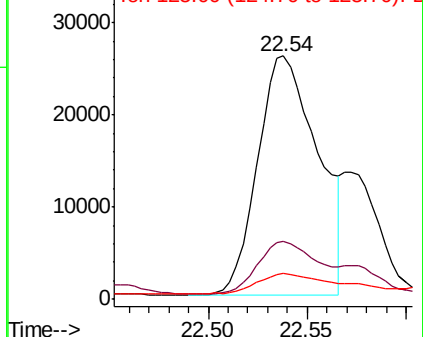
252 100

253 24.0 18.2 27.2

125 10.6 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 0.305 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

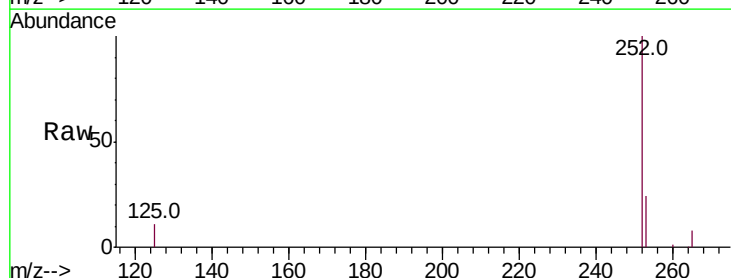
Tgt Ion:252 Resp: 55007

Ion Ratio Lower Upper

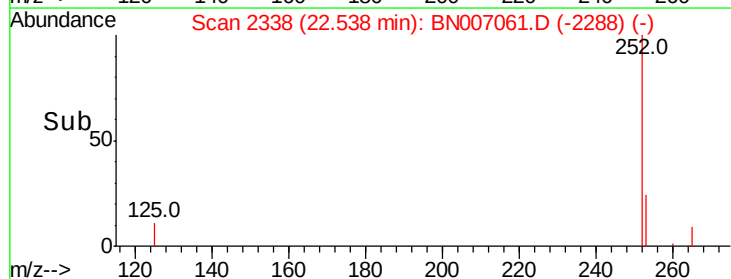
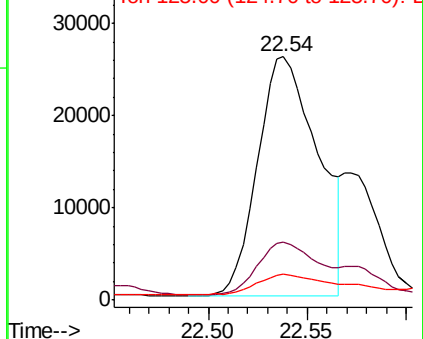
252 100

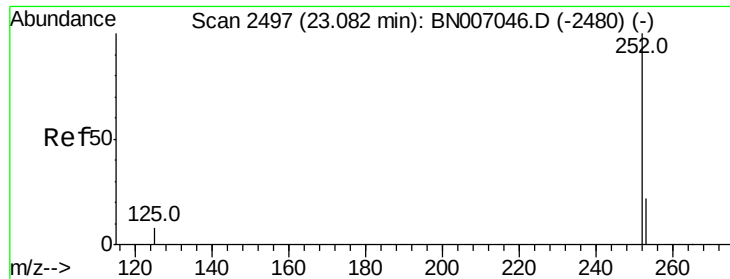
253 24.0 18.1 27.1

125 10.6 7.4 11.0



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





#35

Benzo(a)pyrene

Concen: 0.201 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :

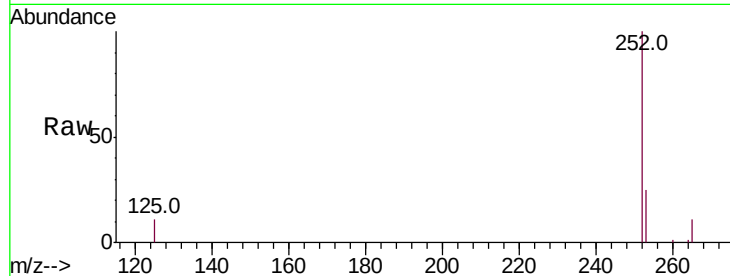
Tot Ion:252 Resp: 33248

Ion Ratio Lower Upper

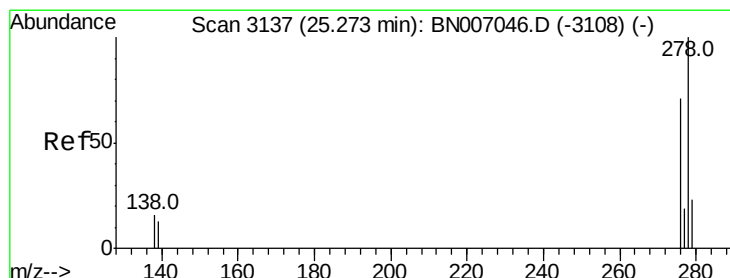
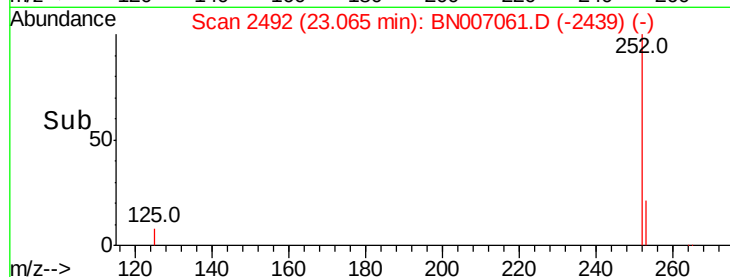
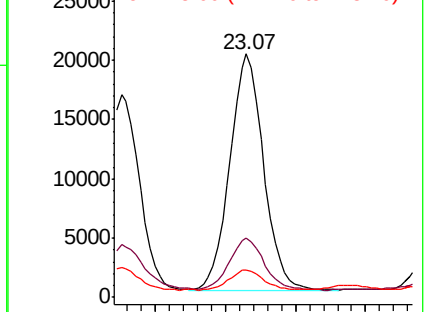
252 100

253 24.5 18.5 27.7

125 11.1 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: 0.039 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

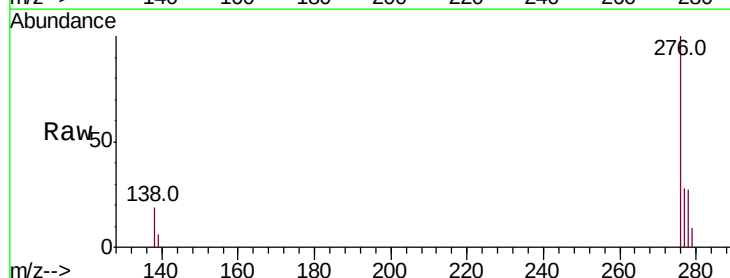
Tgt Ion:278 Resp: 6522

Ion Ratio Lower Upper

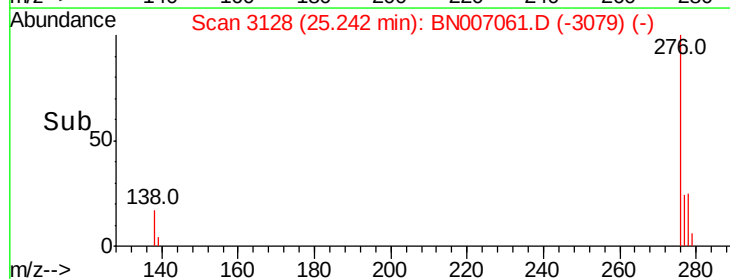
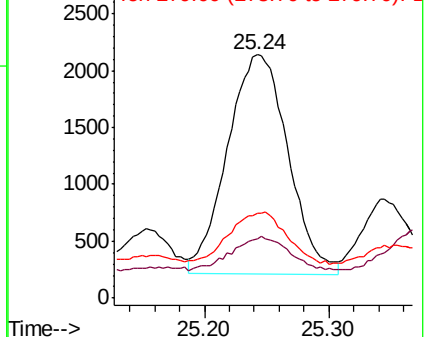
278 100

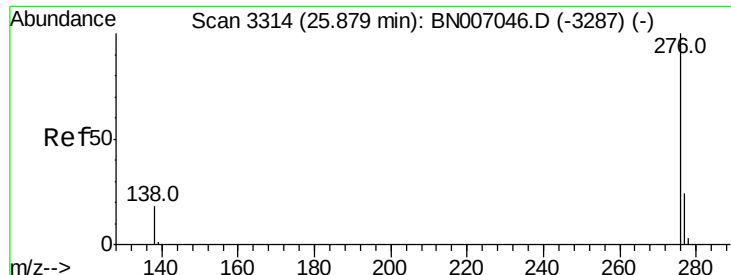
139 24.2 11.3 16.9#

279 34.8 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: 0.157 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

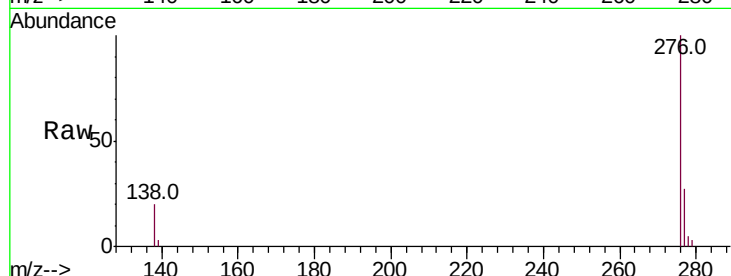
Lab File: BN007061.D

Acq: 10 Aug 2019 22:58

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 26610

Ion Ratio Lower Upper

276 100

277 26.7 19.8 29.8

138 19.9 14.6 22.0

