

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007113.D
 Acq On : 13 Aug 2019 03:54
 Operator : HP/JU
 Sample : K4143-13
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 06:29:03 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	9350	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36658	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21474	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	51606	0.40	ng	0.00
26) Chrysene-d12	21.05	240	50668	0.40	ng	-0.01
32) Perylene-d12	23.15	264	55250	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6238	0.28	ng	0.00
4) Phenol-d6	6.61	99	8536	0.31	ng	0.00
7) Nitrobenzene-d5	8.56	82	6716	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.78	152	15559	0.23	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2421	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3685	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	38630	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	29899	0.22	ng	-0.01

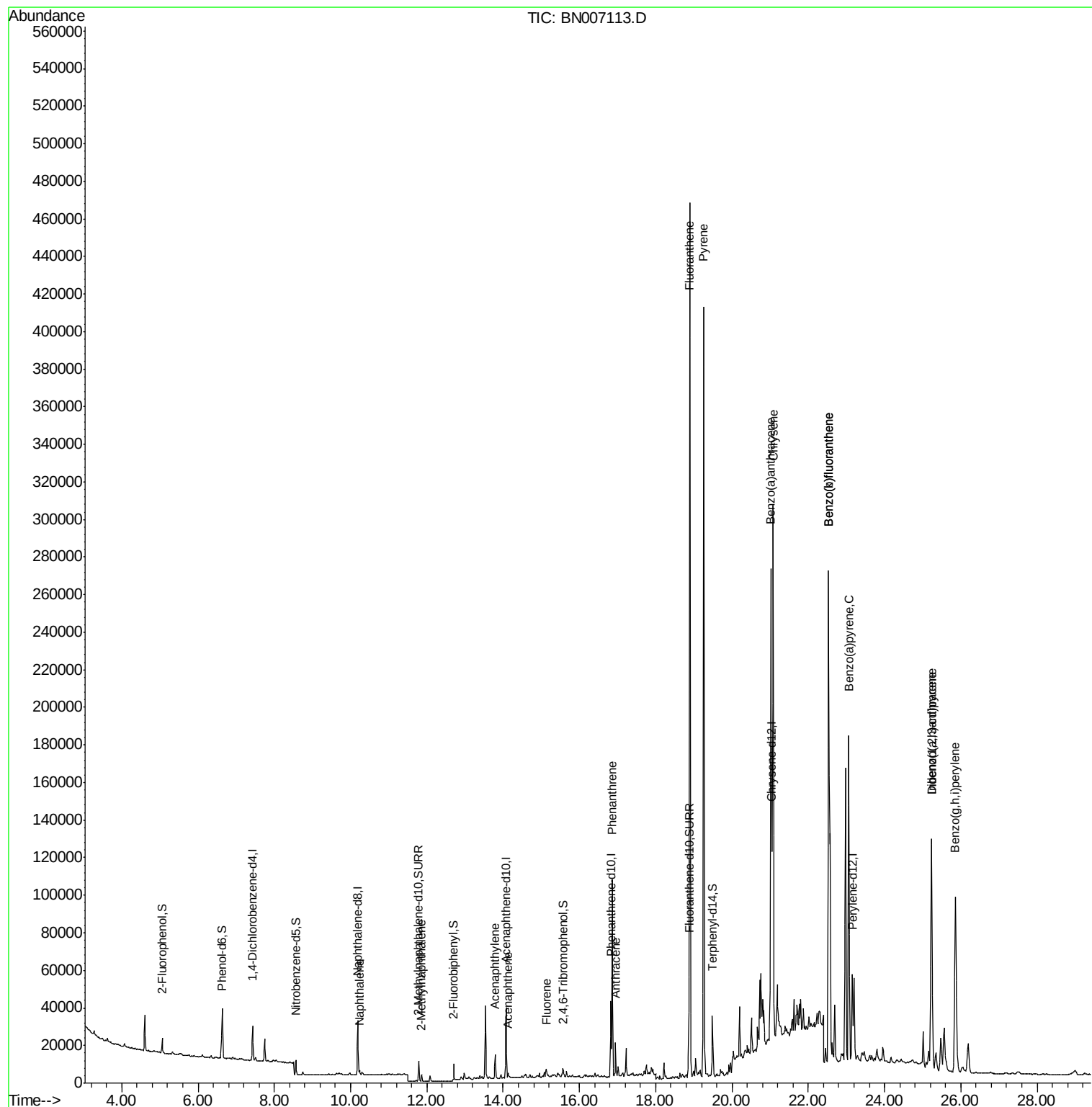
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	2829	0.028	ng	# 87
11) 2-Methylnaphthalene	11.86	142	2427	0.033	ng	# 88
15) Acenaphthylene	13.79	152	15987	0.142	ng	97
16) Acenaphthene	14.13	154	1458	0.020	ng	# 90
17) Fluorene	15.13	166	3666	0.034	ng	86
22) Phenanthrene	16.87	178	104732	0.677	ng	100
23) Anthracene	16.95	178	19146	0.135	ng	# 94
25) Fluoranthene	18.90	202	417621	2.111	ng	100
27) Pyrene	19.26	202	363802	2.047	ng	# 96
29) Benzo(a)anthracene	21.02	228	208647	1.126	ng	95
30) Chrysene	21.08	228	266966	1.483	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	192103	0.968	ng	98
33) Benzo(b)fluoranthene	22.53	252	397853	2.100	ng	100
34) Benzo(k)fluoranthene	22.53	252	397853	2.126	ng	99
35) Benzo(a)pyrene	23.06	252	232571	1.354	ng	100
36) Dibenzo(a,h)anthracene	25.24	278	47053	0.275	ng	# 85
37) Benzo(a,h,i)perylene	25.86	276	193193	1.096	ng	99

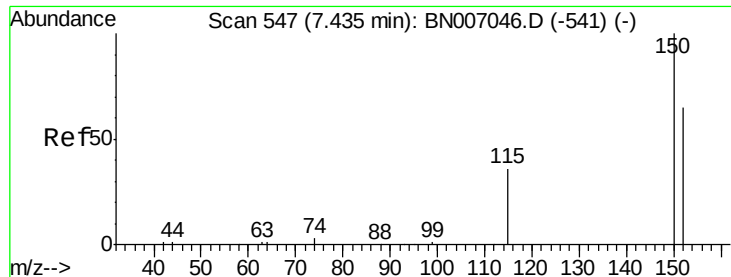
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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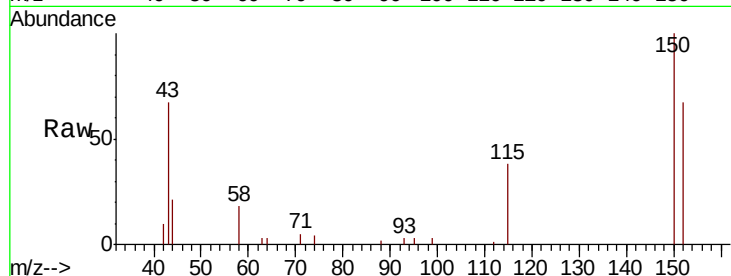


#1

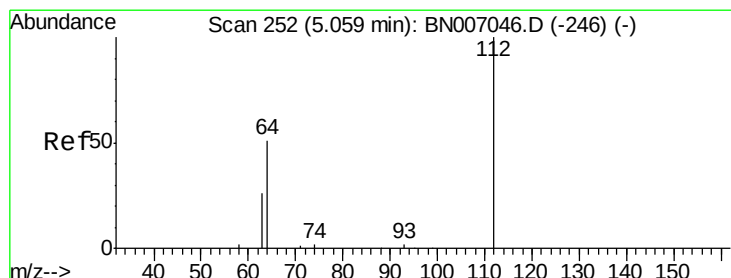
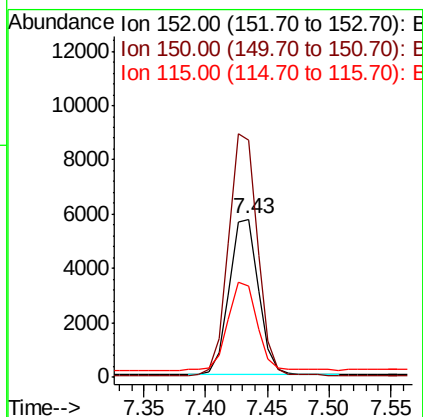
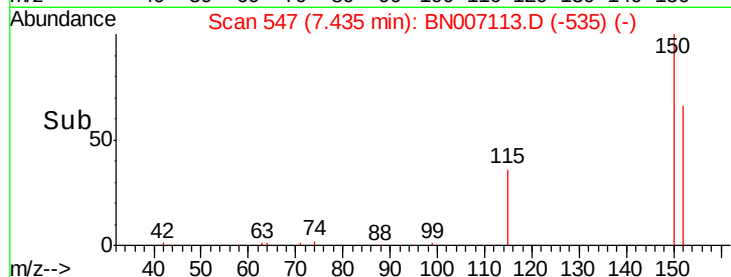
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9350
Ion Ratio Lower Upper
152 100
150 150.3 121.7 182.5
115 57.5 46.2 69.4



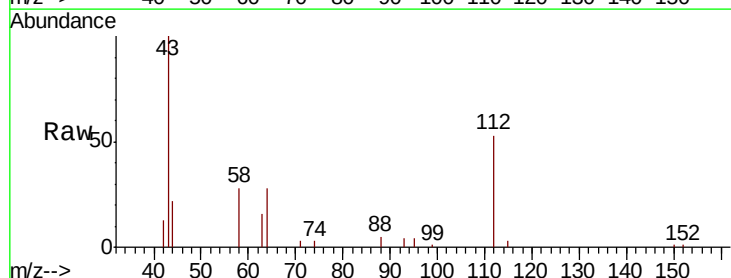
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



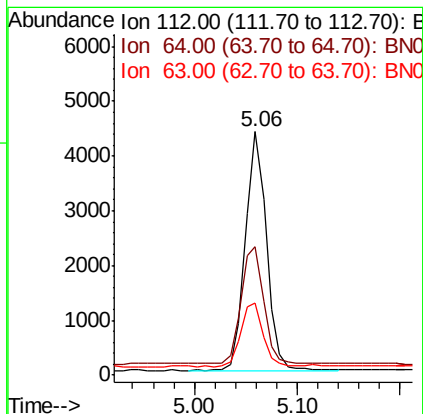
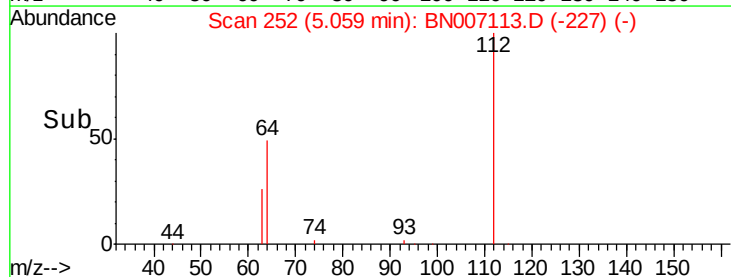
#3

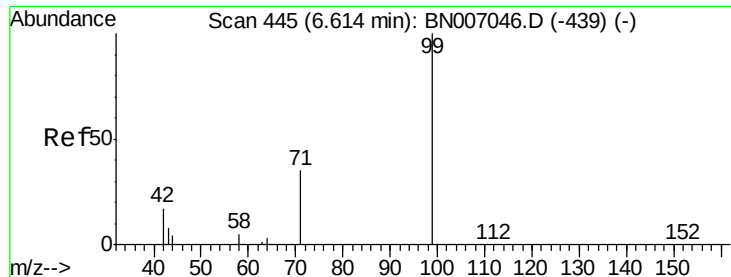
2-Fluorophenol
Concen: 0.278 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

Tgt Ion:112 Resp: 6238
Ion Ratio Lower Upper
112 100
64 51.4 42.6 63.8
63 28.2 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: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

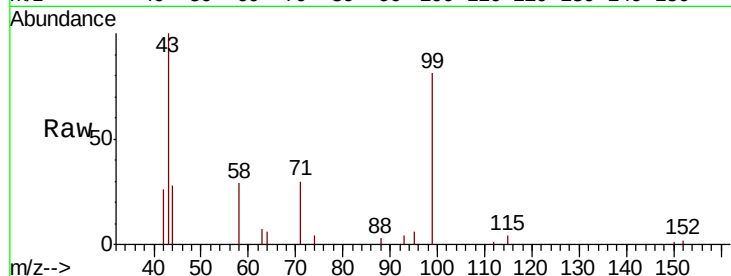
Tot Ion: 99 Resp: 8536

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 34.0 27.0 40.4



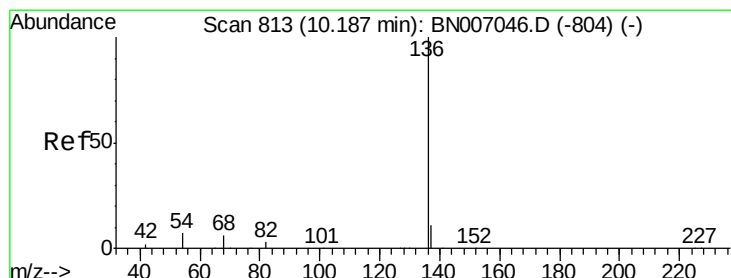
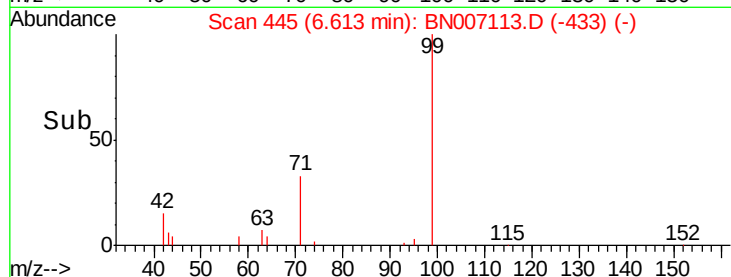
Abundance Ion 99.00 (98.70 to 99.70): BN007113.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007113.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007113.D (-433) (-)

6.61

Time-->



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Tgt Ion: 136 Resp: 36658

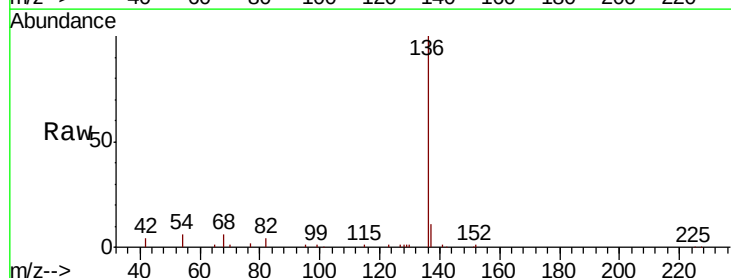
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 5.8 6.6 9.8#

68 5.6 6.0 9.0#



Abundance Ion 136.00 (135.70 to 136.70): BN007113.D (-797) (-)

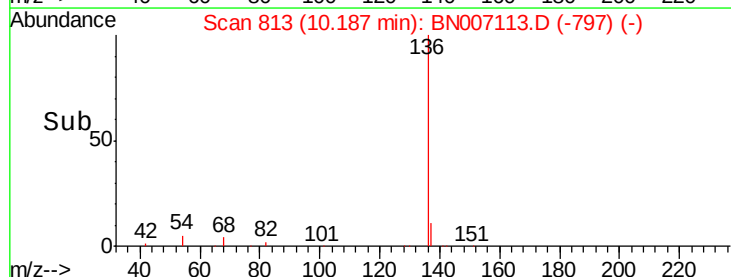
Ion 137.00 (136.70 to 137.70): BN007113.D (-797) (-)

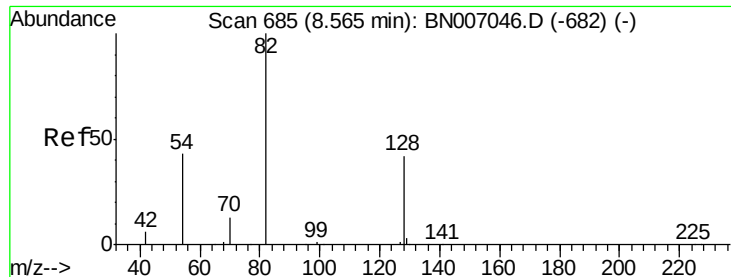
Ion 54.00 (53.70 to 54.70): BN007113.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007113.D (-797) (-)

10.19

Time-->





#7

Nitrobenzene-d5

Concen: 0.227 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

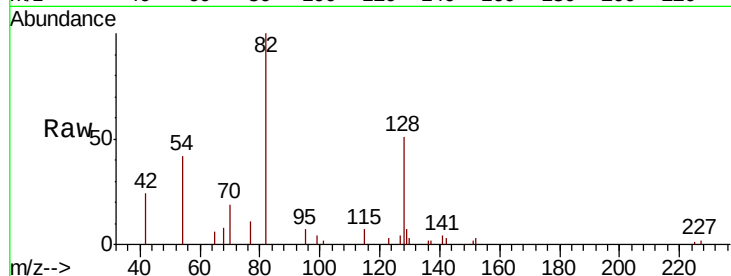
Tot Ion: 82 Resp: 6716

Ion Ratio Lower Upper

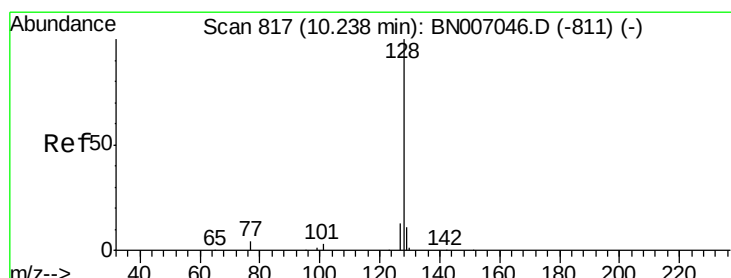
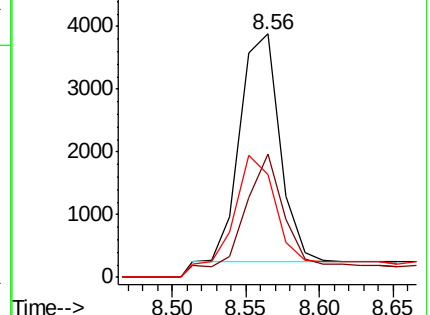
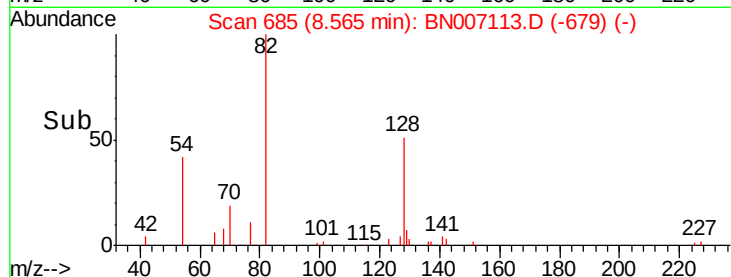
82 100

128 50.6 34.6 51.8

54 42.1 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007113.D (-679) (-)



#8

Naphthalene

Concen: 0.028 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

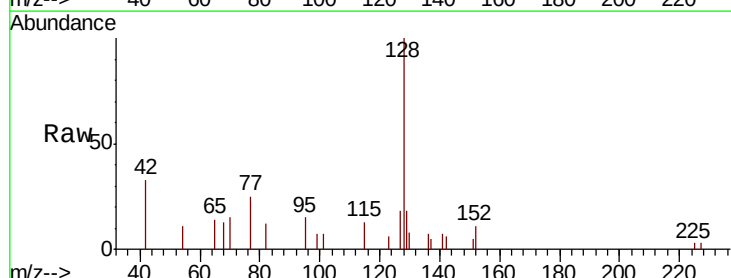
Tgt Ion: 128 Resp: 2829

Ion Ratio Lower Upper

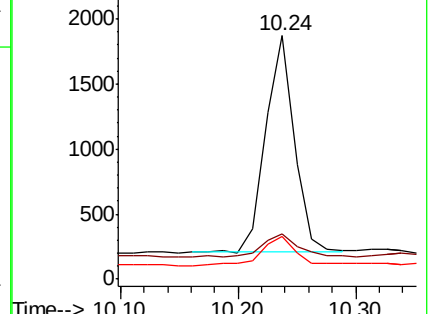
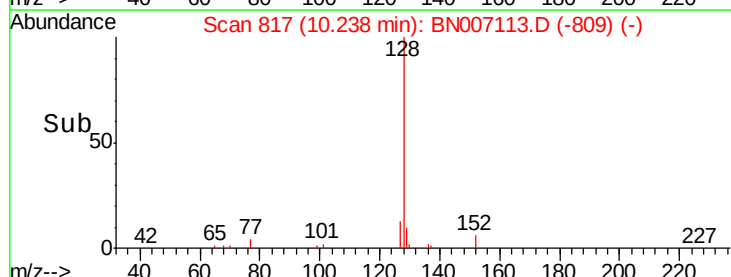
128 100

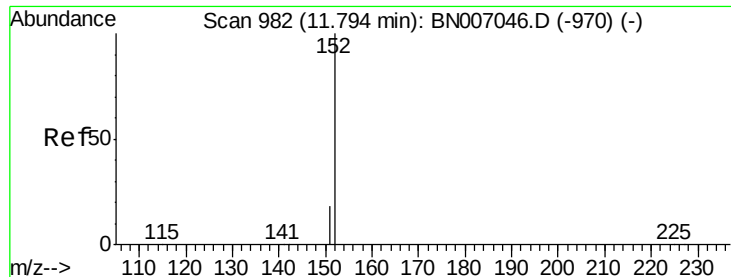
129 18.4 9.4 14.2#

127 17.7 11.0 16.6#



Abundance Ion 128.00 (127.70 to 128.70): BN007113.D (-809) (-)

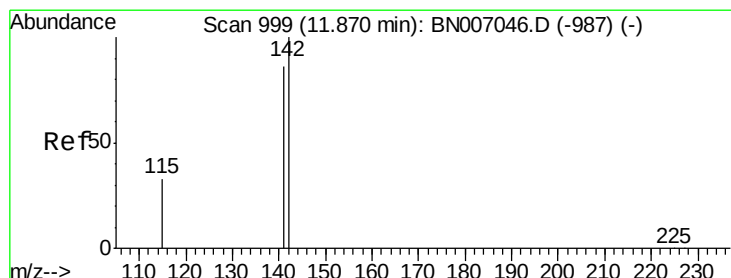
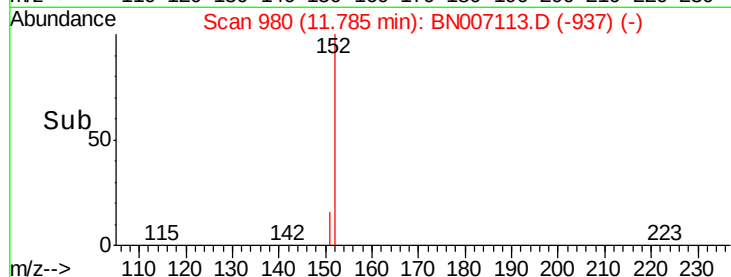
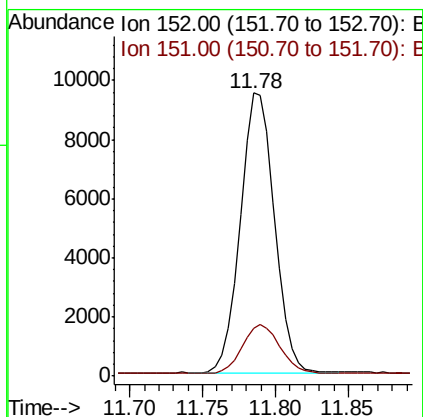
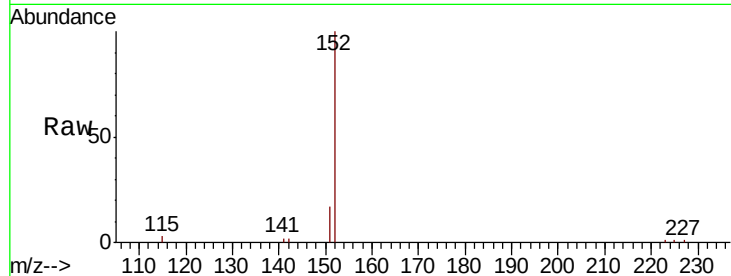




#10
2-Methylnaphthalene-d10
Concen: 0.228 ng
RT: 11.78 min Scan# 980
Delta R.T. -0.01 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

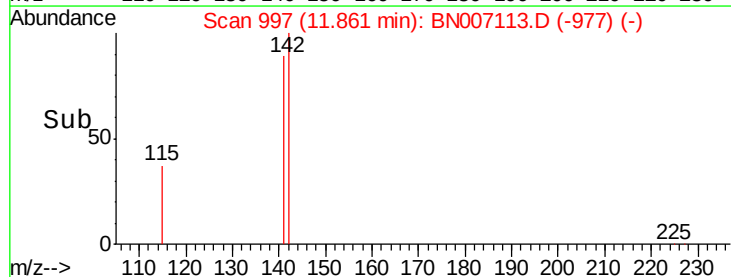
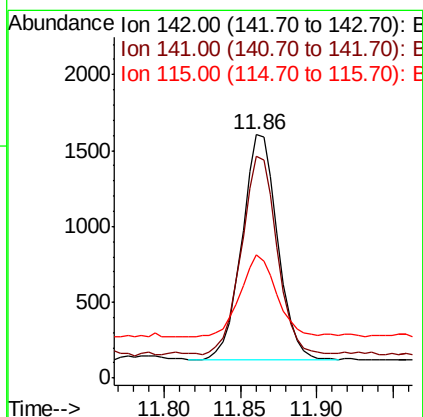
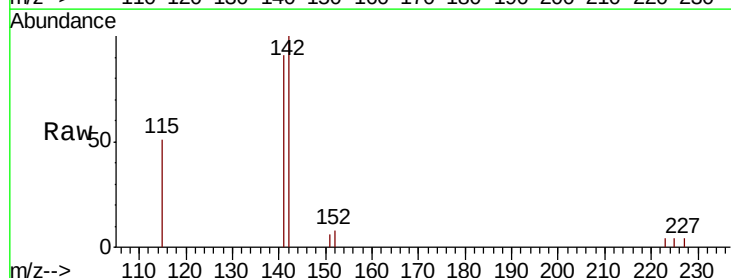
Instrument :
BNA_N
ClientSampled :

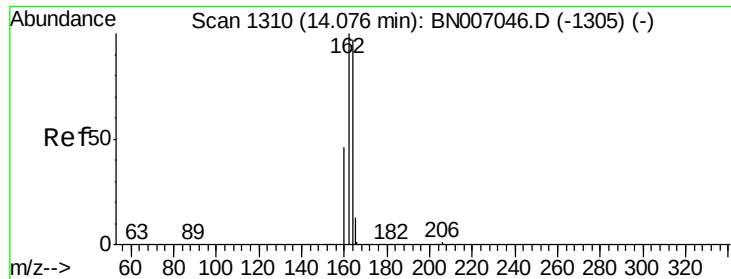
Tot Ion:152 Resp: 15559
Ion Ratio Lower Upper
152 100
151 19.4 15.5 23.3



#11
2-Methylnaphthalene
Concen: 0.033 ng
RT: 11.86 min Scan# 997
Delta R.T. -0.01 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

Tgt Ion:142 Resp: 2427
Ion Ratio Lower Upper
142 100
141 91.2 69.0 103.6
115 50.5 27.1 40.7#





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

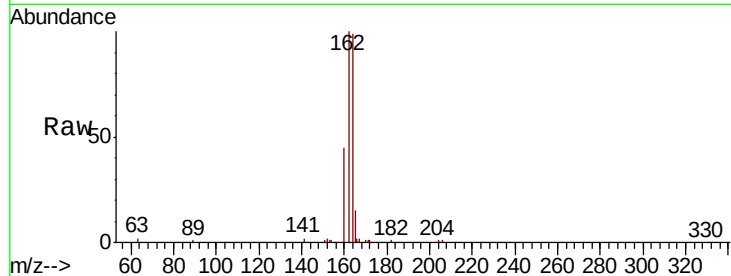
Tot Ion:164 Resp: 21474

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.4

160 45.8 38.3 57.5

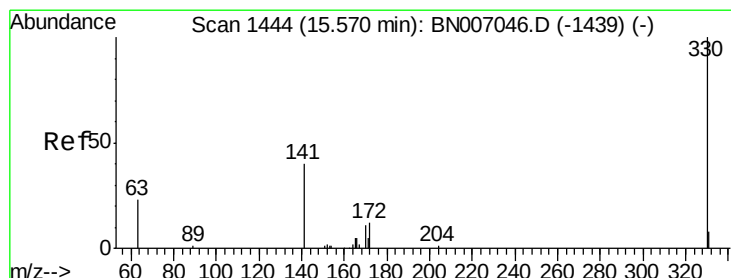
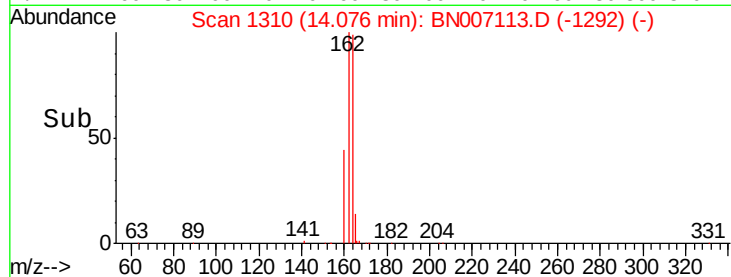
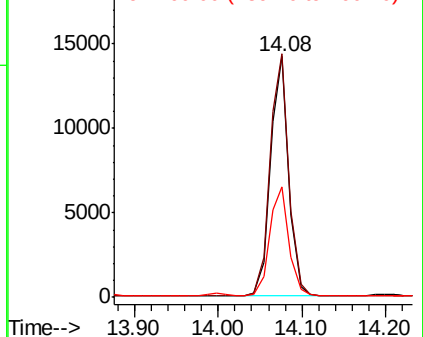


Abundance

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: 0.209 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

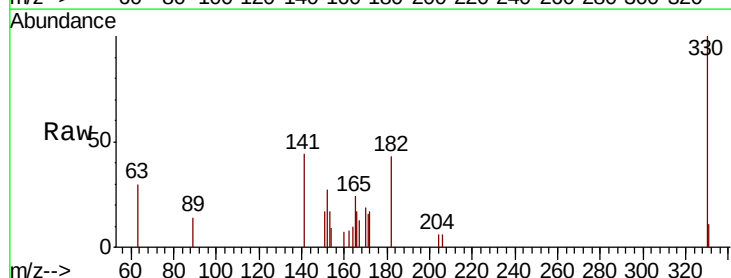
Tgt Ion:330 Resp: 2421

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 47.5 33.6 50.4

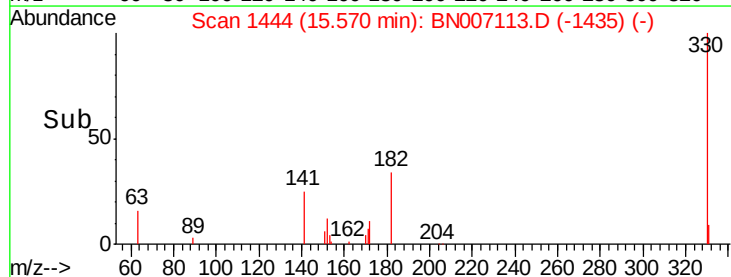
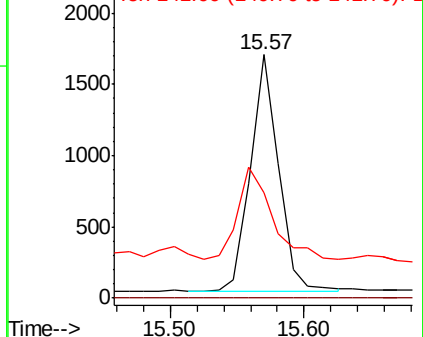


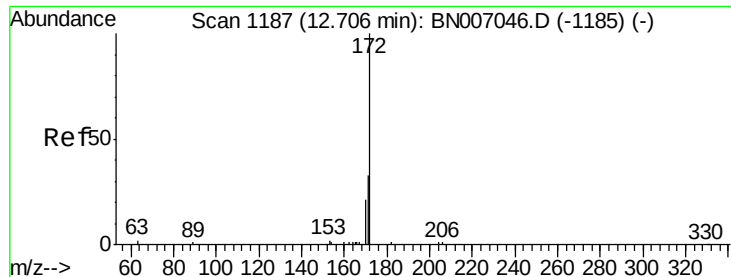
Abundance

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

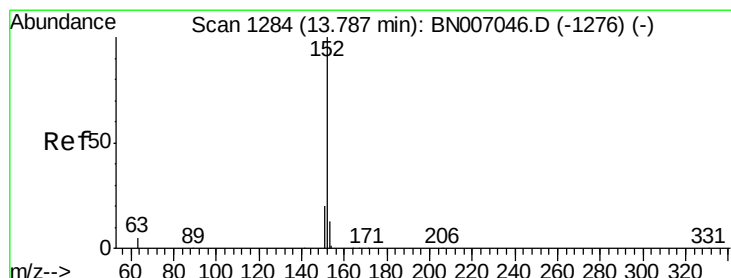
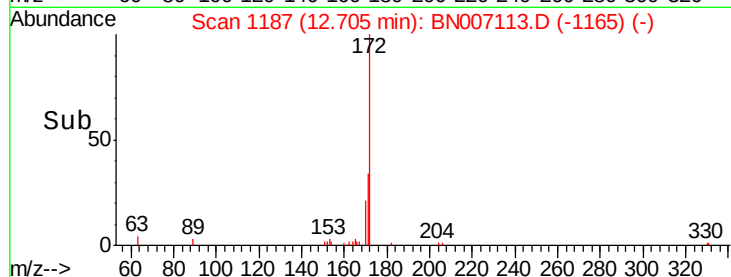
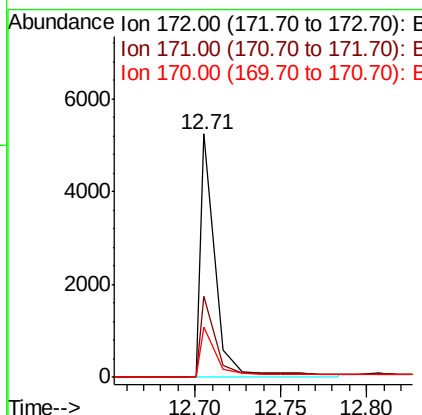
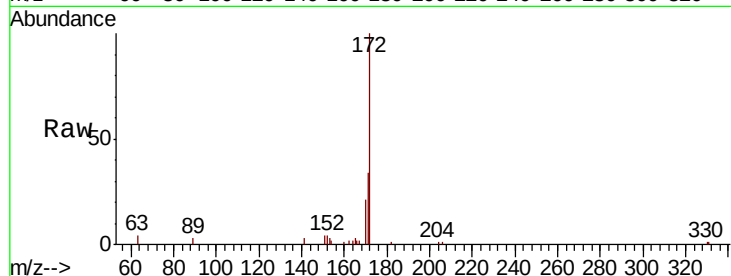




#14
2-Fluorobiphenyl
Concen: 0.118 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

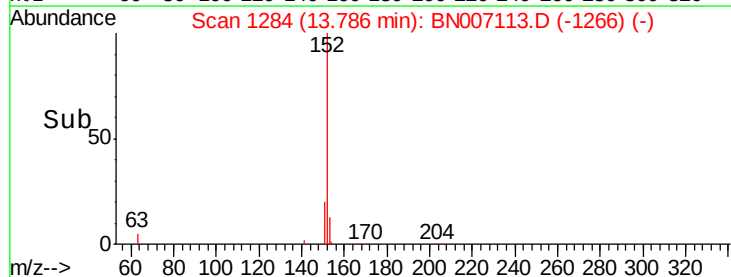
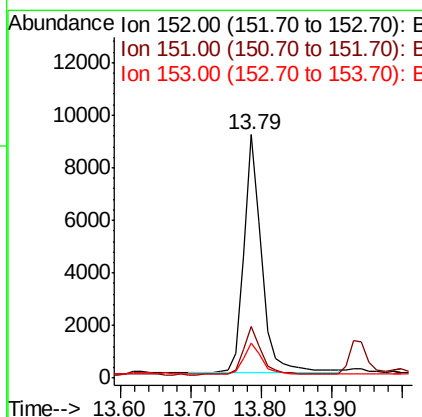
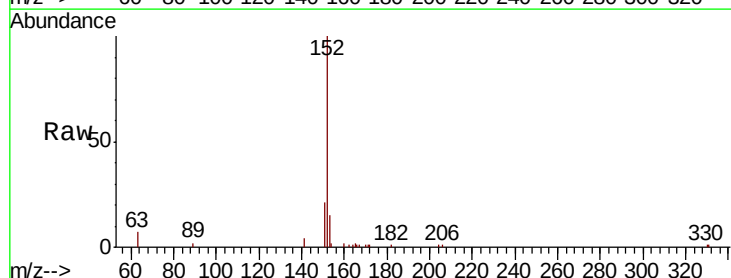
Instrument :
BNA_N
ClientSampleId :

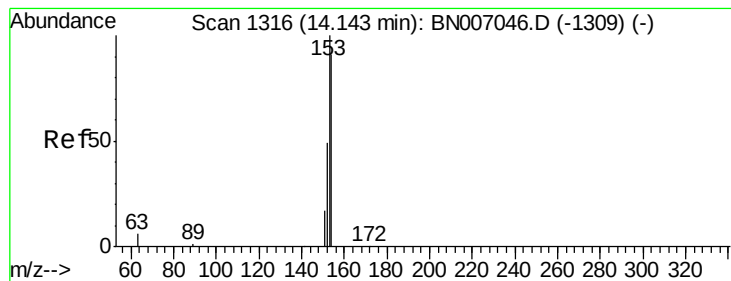
Tot Ion:172 Resp: 3685
Ion Ratio Lower Upper
172 100
171 33.5 26.3 39.5
170 20.8 17.0 25.4



#15
Acenaphthylene
Concen: 0.142 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

Tgt Ion:152 Resp: 15987
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.6
153 13.7 10.4 15.6





#16

Acenaphthene

Concen: 0.020 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

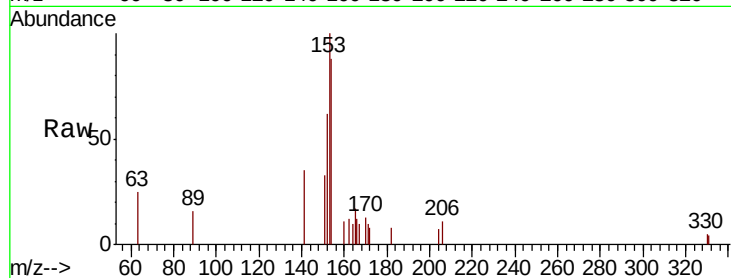
Tot Ion:154 Resp: 1458

Ion Ratio Lower Upper

154 100

153 107.6 89.5 134.3

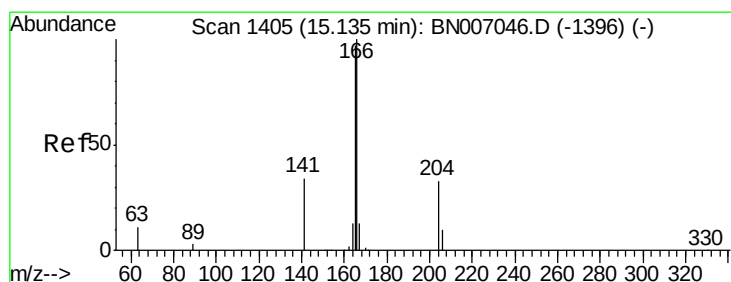
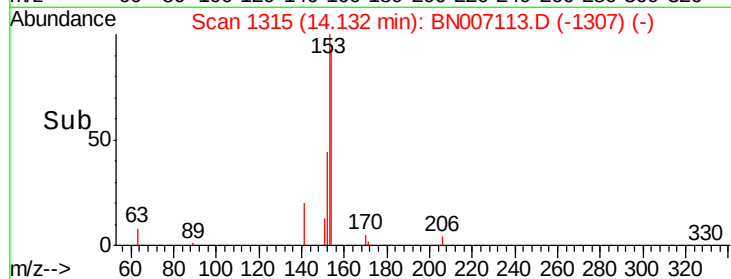
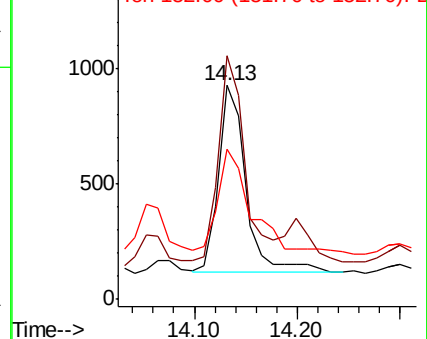
152 73.0 44.8 67.2#



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: 0.034 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

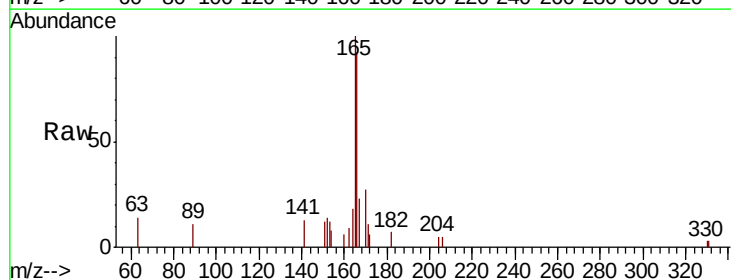
Tgt Ion:166 Resp: 3666

Ion Ratio Lower Upper

166 100

165 112.4 77.9 116.9

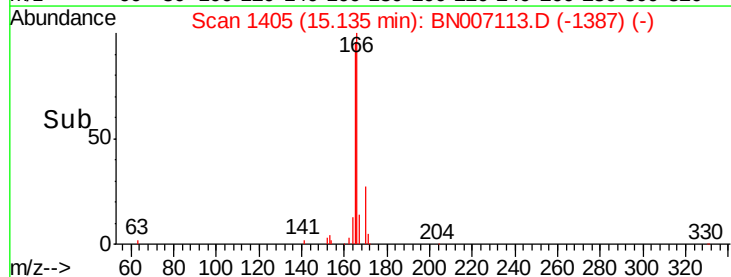
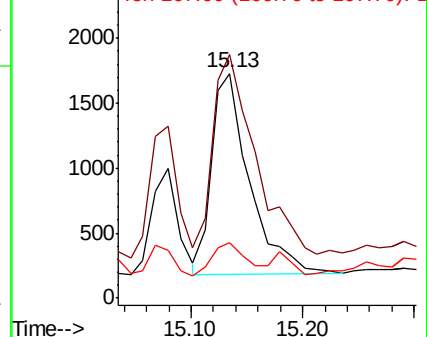
167 14.2 10.9 16.3

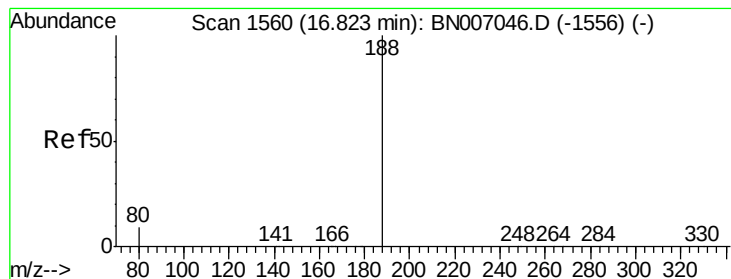


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

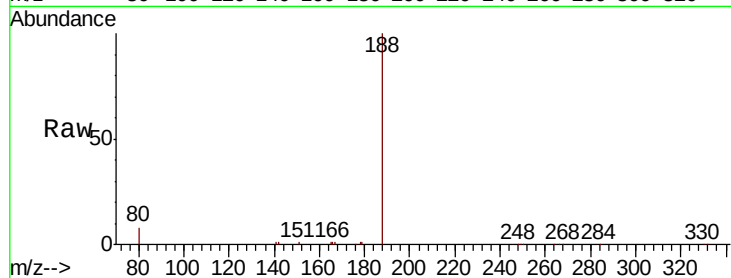
Tot Ion:188 Resp: 51606

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

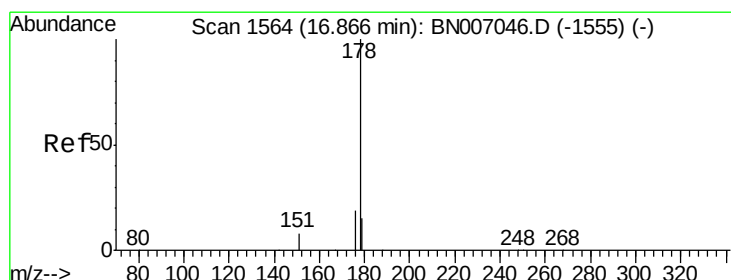
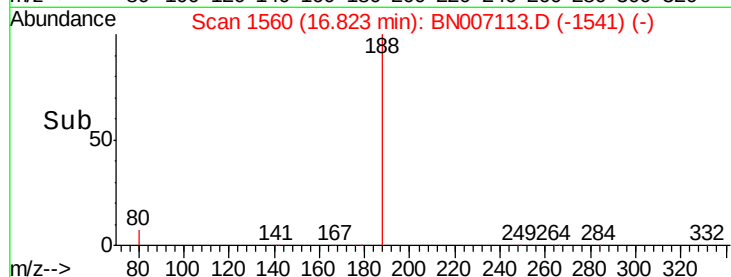
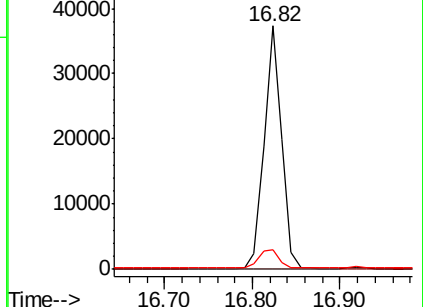
80 8.0 7.8 11.6



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: 0.677 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

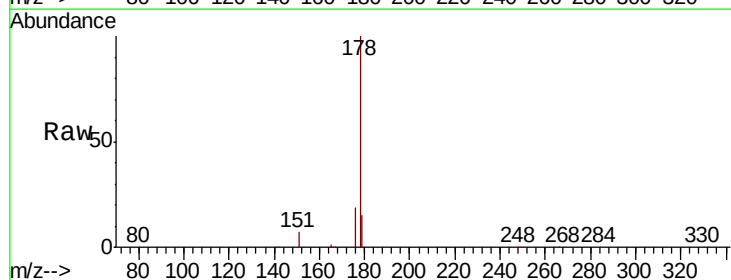
Tgt Ion:178 Resp: 104732

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

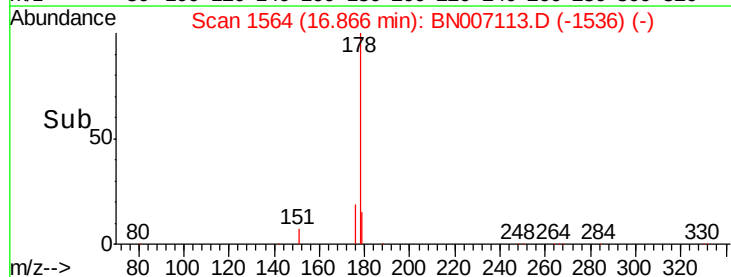
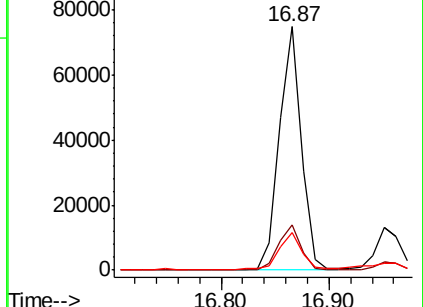
179 15.4 12.3 18.5

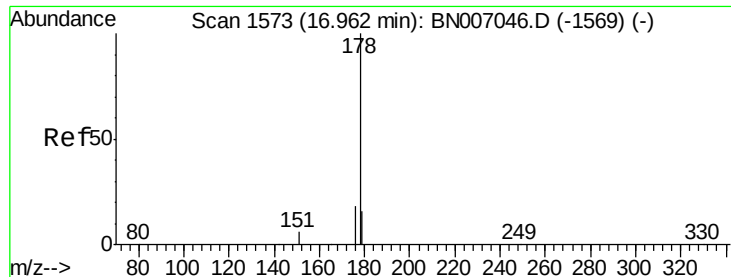


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.135 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

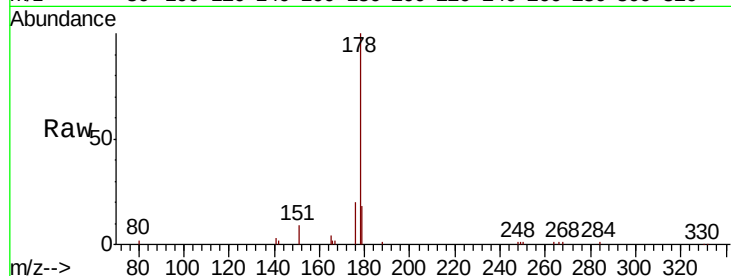
Tot Ion:178 Resp: 19146

Ion Ratio Lower Upper

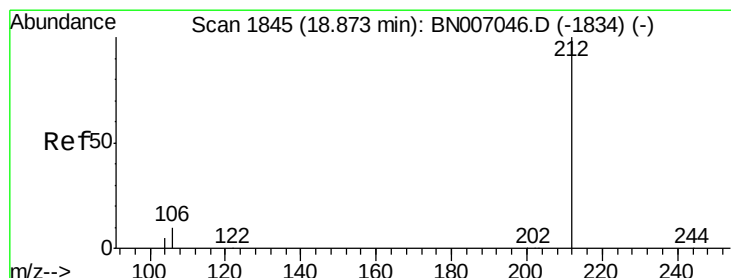
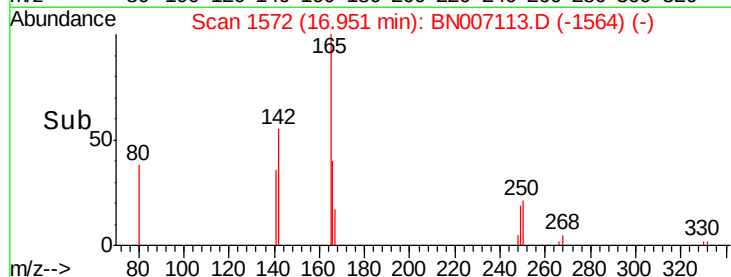
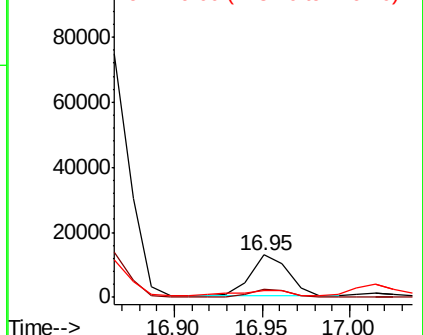
178 100

176 18.2 14.6 21.8

179 20.9 12.5 18.7#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene-d10

Concen: 0.211 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

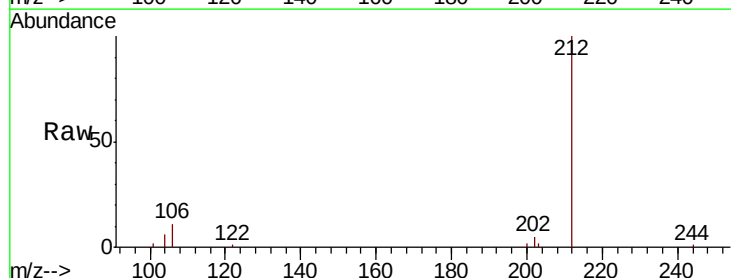
Tgt Ion:212 Resp: 38630

Ion Ratio Lower Upper

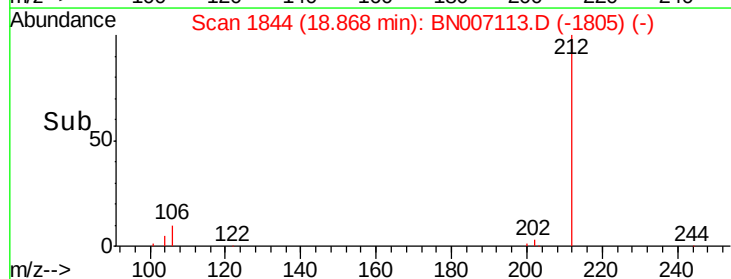
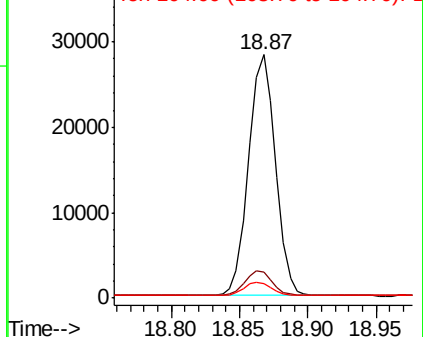
212 100

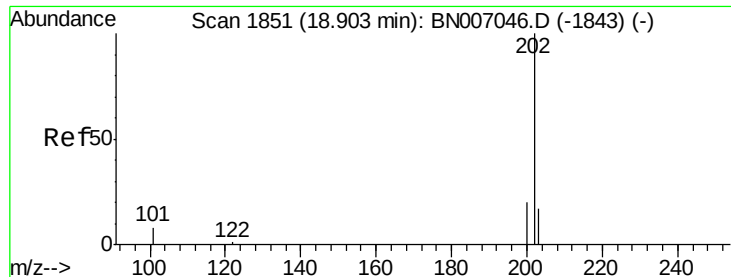
106 10.7 8.2 12.2

104 6.0 4.5 6.7



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 2.111 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

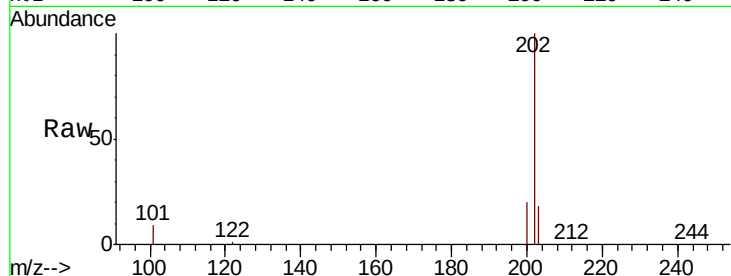
Tot Ion:202 Resp: 417621

Ion Ratio Lower Upper

202 100

101 8.8 7.0 10.4

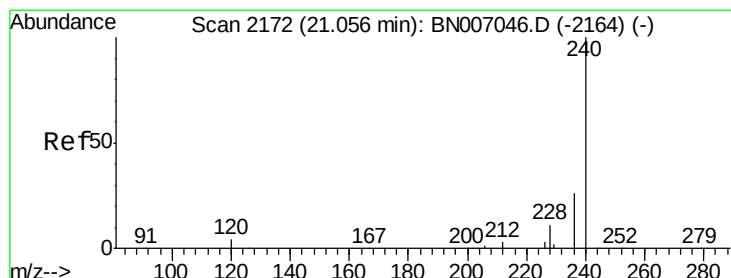
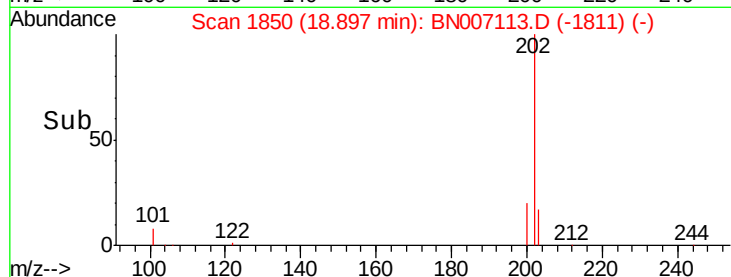
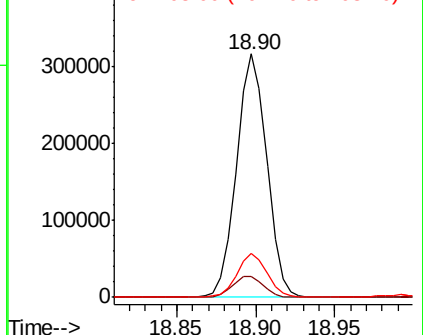
203 17.5 13.8 20.8



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: BN007113.D

Acq: 13 Aug 2019 03:54

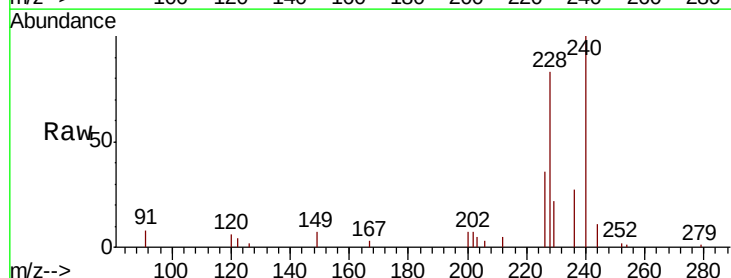
Tgt Ion:240 Resp: 50668

Ion Ratio Lower Upper

240 100

120 6.1 4.0 6.0#

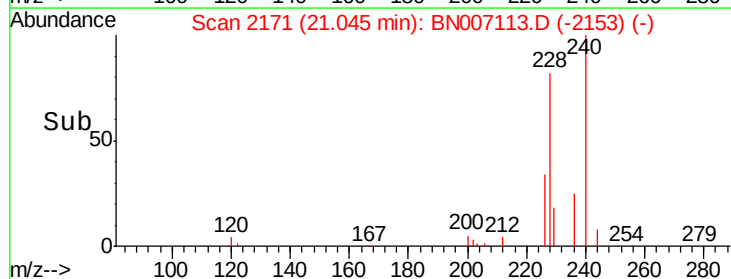
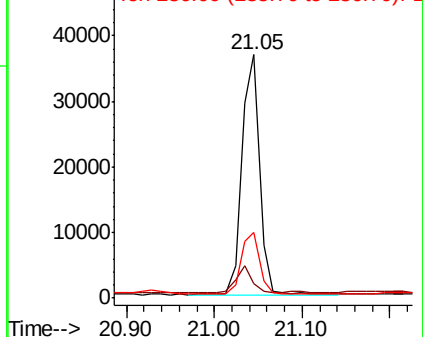
236 27.0 21.3 31.9

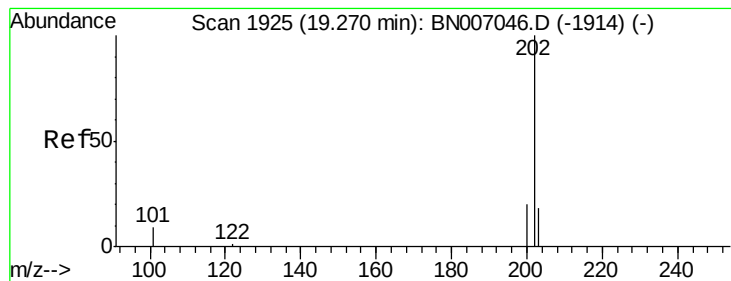


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pvrene

Concen: 2.047 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

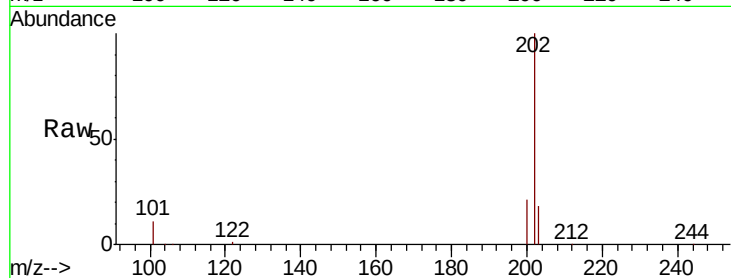
Tot Ion:202 Resp: 363802

Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

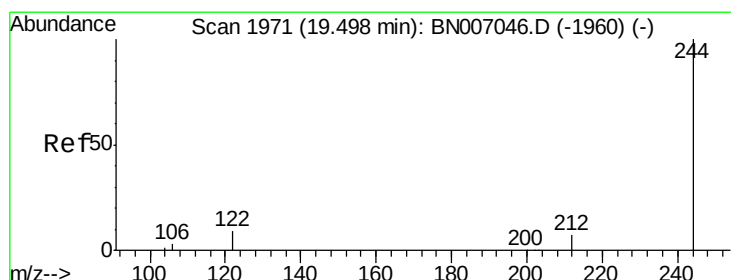
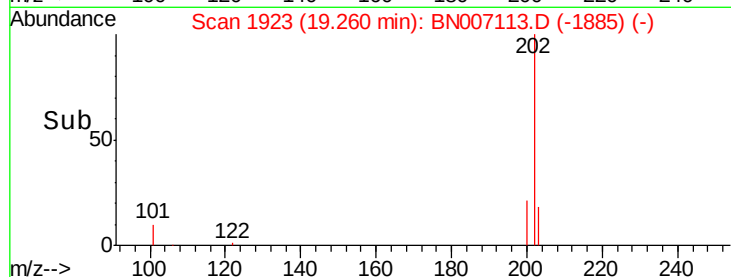
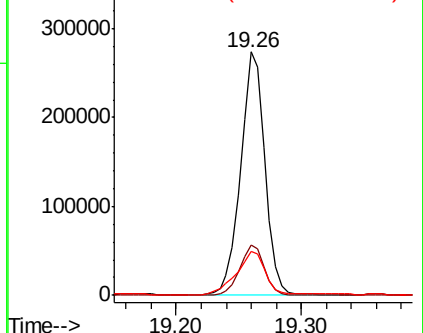
203 21.4 14.0 21.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.217 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

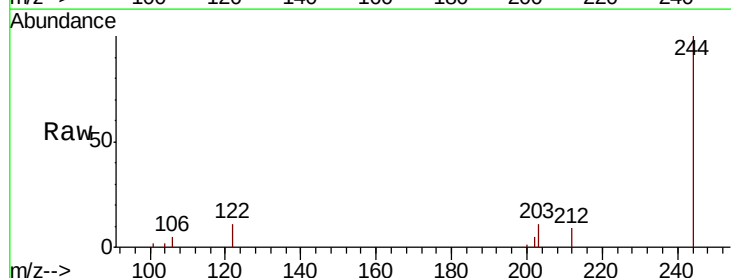
Tgt Ion:244 Resp: 29899

Ion Ratio Lower Upper

244 100

212 8.5 6.2 9.2

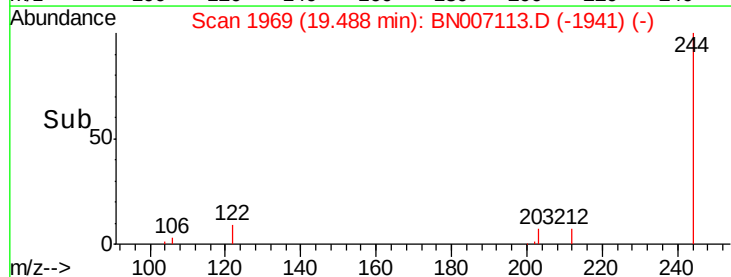
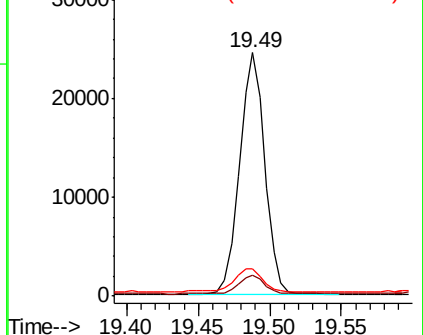
122 11.1 7.4 11.2

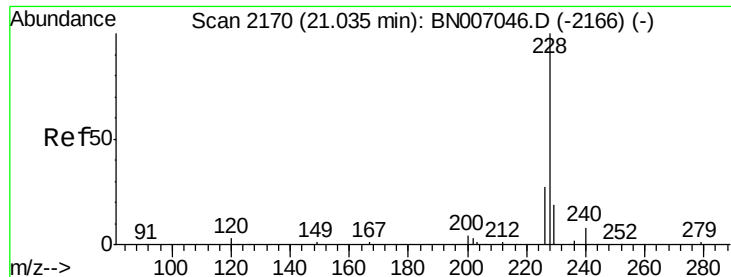


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 1.126 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

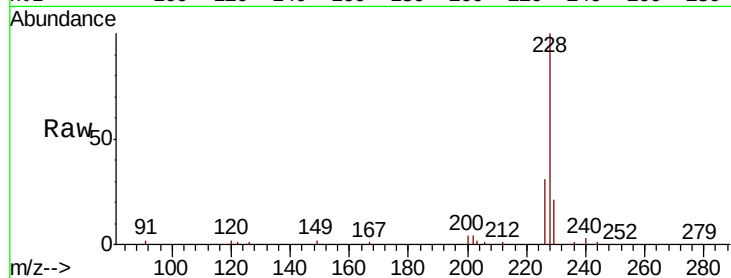
Tot Ion:228 Resp: 208647

Ion Ratio Lower Upper

228 100

226 30.5 21.8 32.6

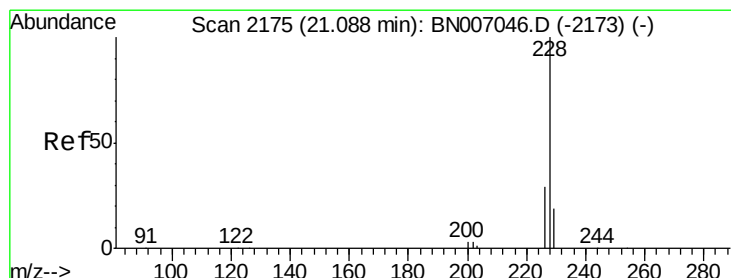
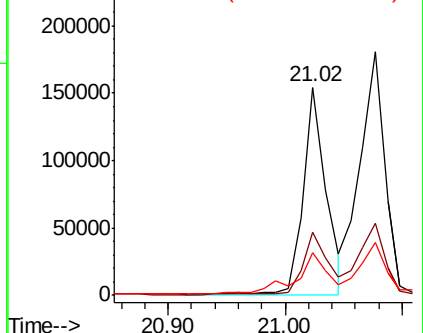
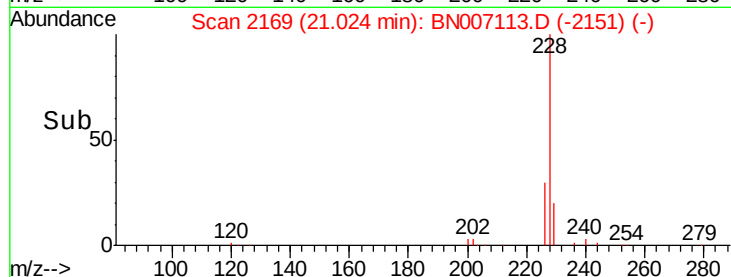
229 20.8 15.6 23.4



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: 1.483 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

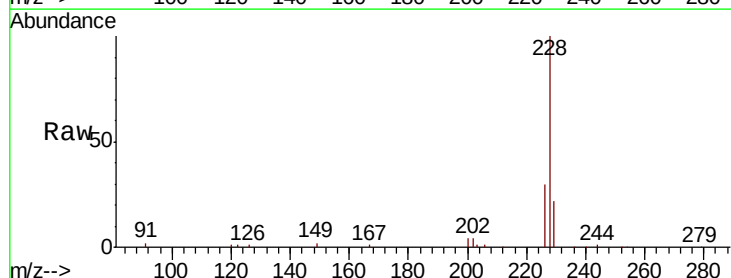
Tgt Ion:228 Resp: 266966

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.6

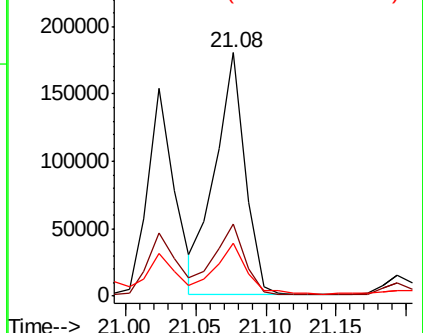
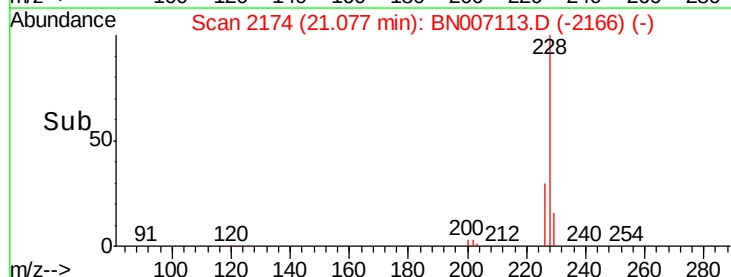
229 21.6 15.7 23.5

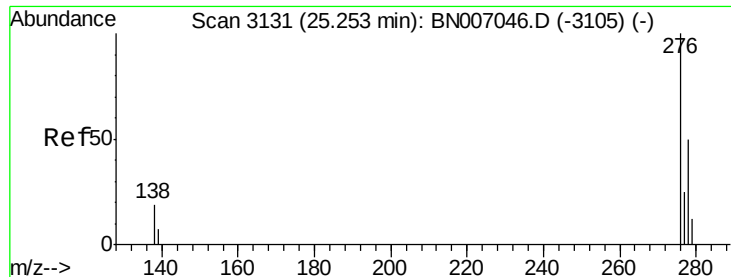


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

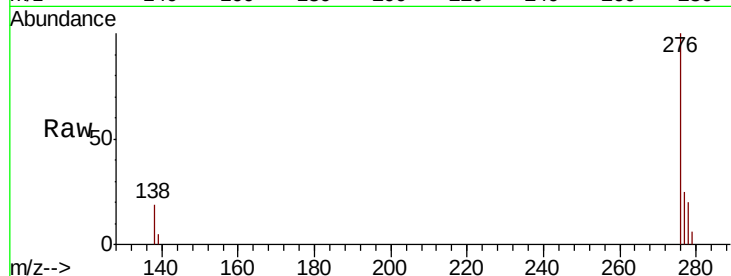




#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.968 ng
 RT: 25.23 min Scan# 3125
 Delta R.T. -0.02 min
 Lab File: BN007113.D
 Acq: 13 Aug 2019 03:54

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.2	16.0	24.0
277	24.5	19.9	29.9

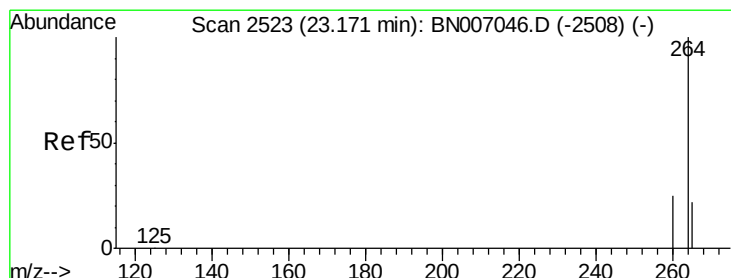
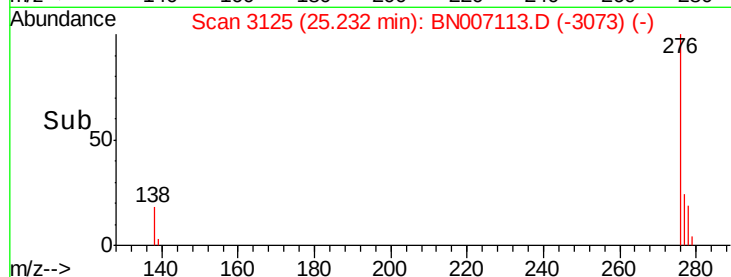
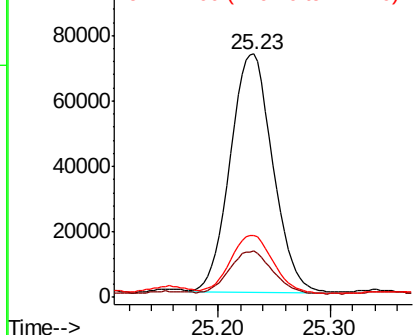


Abundance

Ion 276.00 (275.70 to 276.70): E

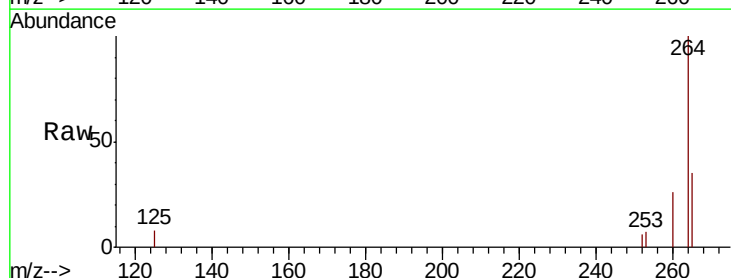
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007113.D
 Acq: 13 Aug 2019 03:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.5	19.8	29.8
265	35.2	26.2	39.4

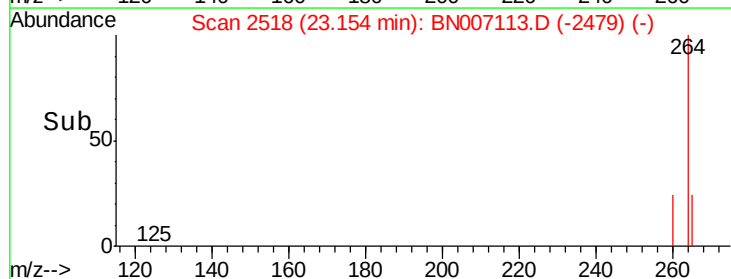
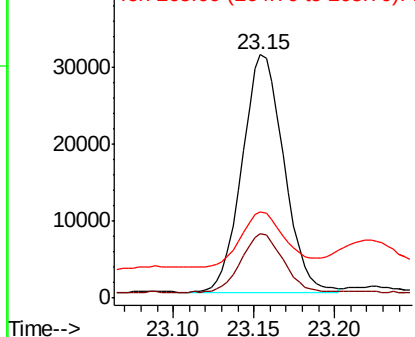


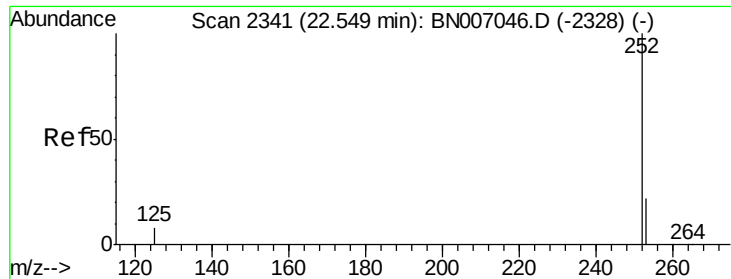
Abundance

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: 2.100 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :

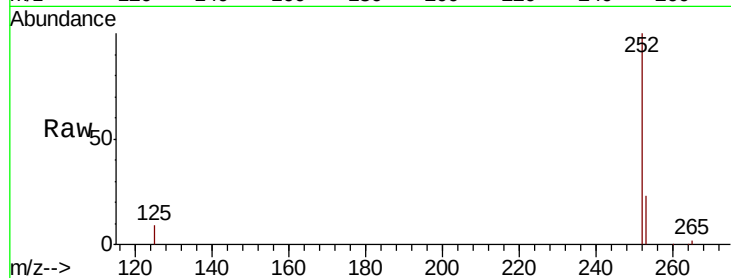
Tot Ion:252 Resp: 397853

Ion Ratio Lower Upper

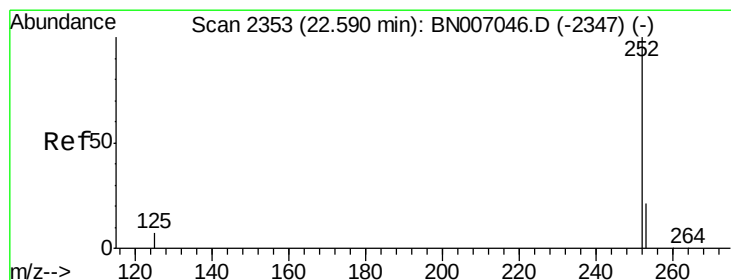
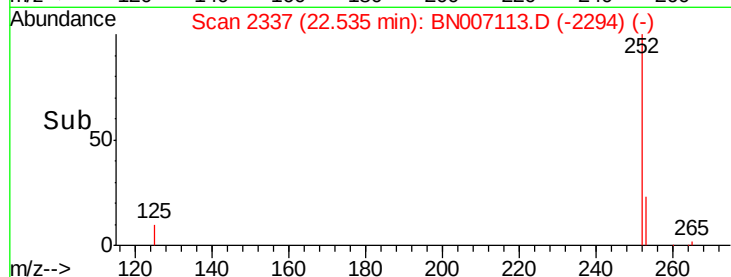
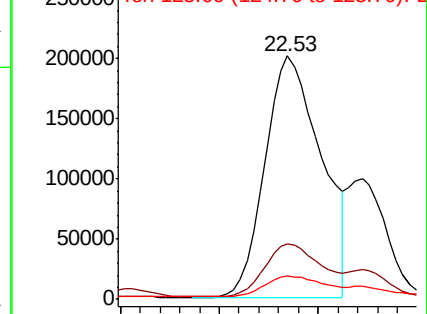
252 100

253 22.9 18.2 27.2

125 9.5 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: 2.126 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.06 min

Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

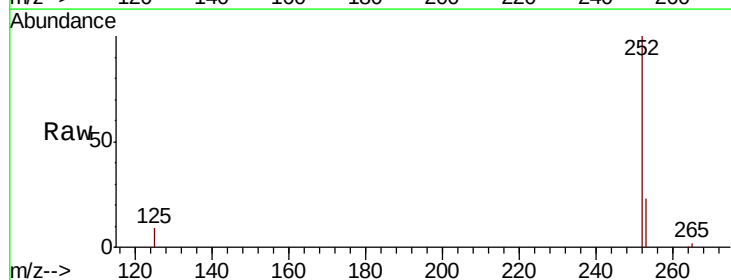
Tgt Ion:252 Resp: 397853

Ion Ratio Lower Upper

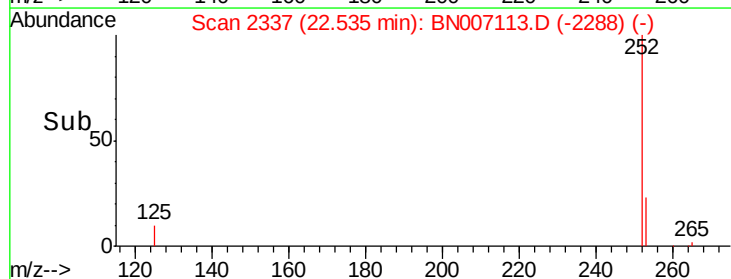
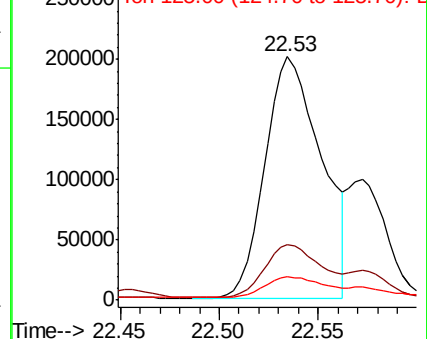
252 100

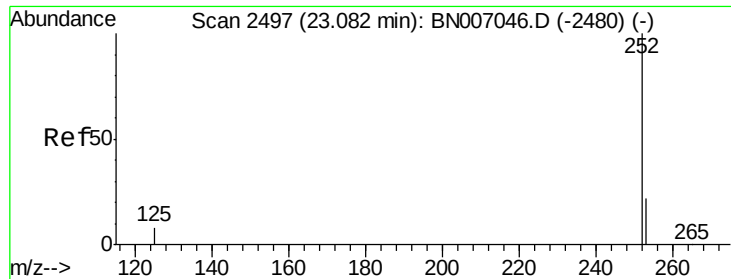
253 22.9 18.1 27.1

125 9.5 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

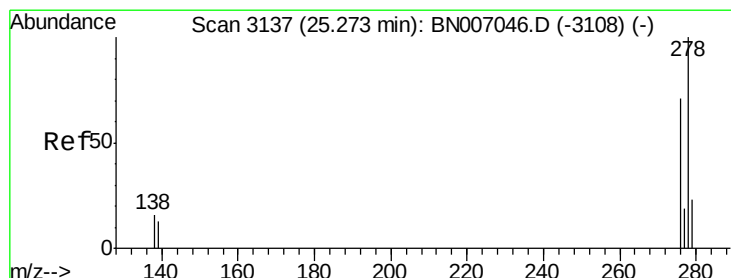
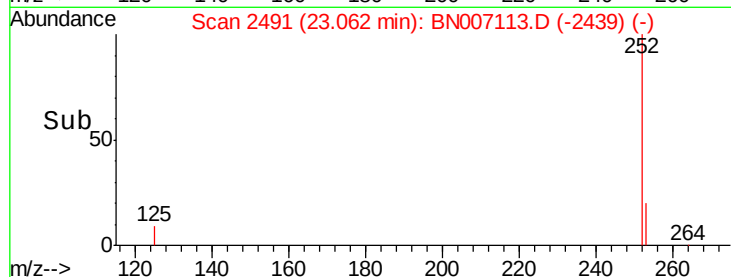
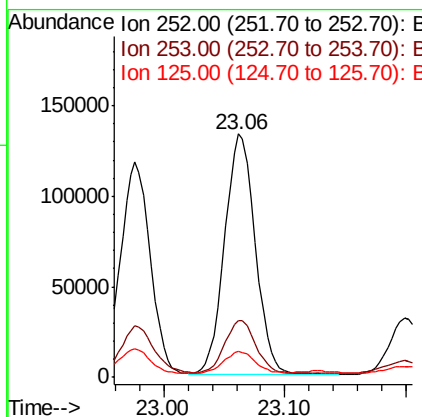
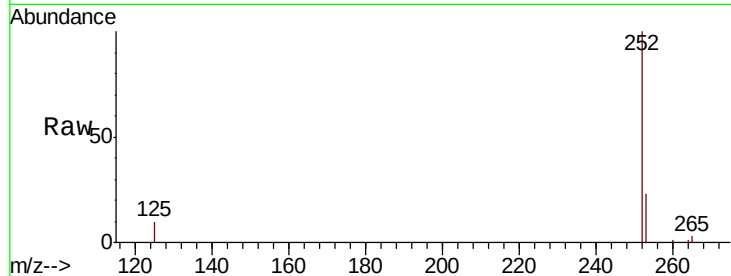




#35
Benzo(a)pyrene
Concen: 1.354 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

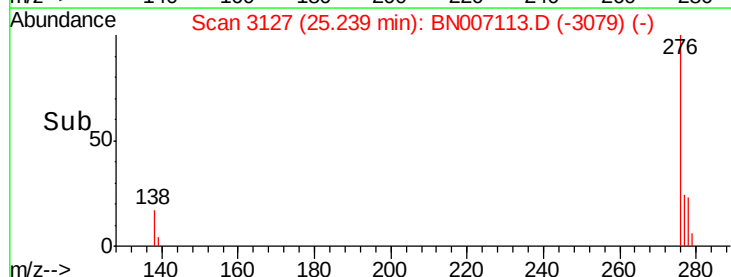
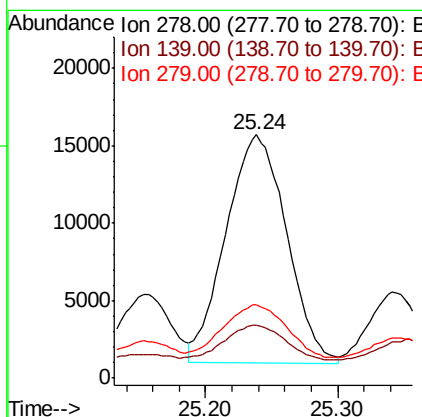
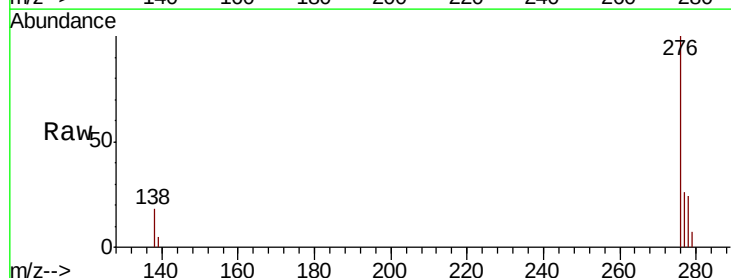
Instrument :
BNA_N
ClientSampleId :

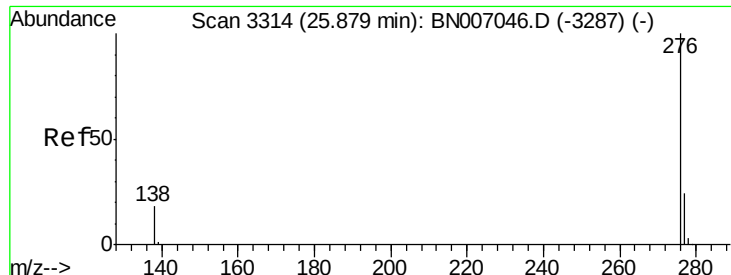
Tot Ion:252 Resp: 232571
Ion Ratio Lower Upper
252 100
253 23.3 18.5 27.7
125 10.5 8.2 12.4



#36
Dibenzo(a,h)anthracene
Concen: 0.275 ng
RT: 25.24 min Scan# 3127
Delta R.T. -0.03 min
Lab File: BN007113.D
Acq: 13 Aug 2019 03:54

Tgt Ion:278 Resp: 47053
Ion Ratio Lower Upper
278 100
139 21.8 11.3 16.9#
279 30.2 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 1.096 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

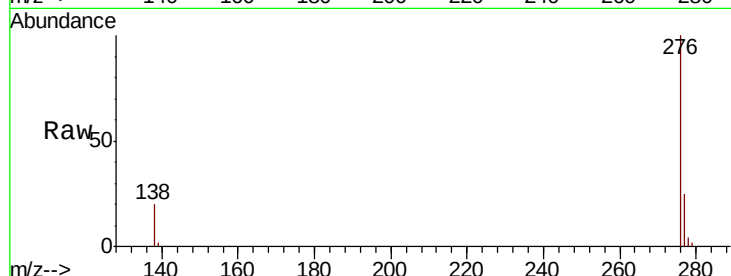
Lab File: BN007113.D

Acq: 13 Aug 2019 03:54

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 193193

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 19.7 14.6 22.0

