

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007102.D
 Acq On : 12 Aug 2019 17:42
 Operator : HP/JU
 Sample : K4143-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 04:16:01 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	9013	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	33901	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19349	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47852	0.40	ng	0.00
26) Chrysene-d12	21.04	240	49350	0.40	ng	-0.01
32) Perylene-d12	23.16	264	60011	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6416	0.30	ng	0.00
4) Phenol-d6	6.61	99	8704	0.32	ng	0.00
7) Nitrobenzene-d5	8.56	82	6720	0.25	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	16148	0.26	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1957	0.19	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4009	0.14	ng	0.00
24) Fluoranthene-d10	18.87	212	40361	0.24	ng	0.00
28) Terphenyl-d14	19.49	244	29884	0.22	ng	-0.01

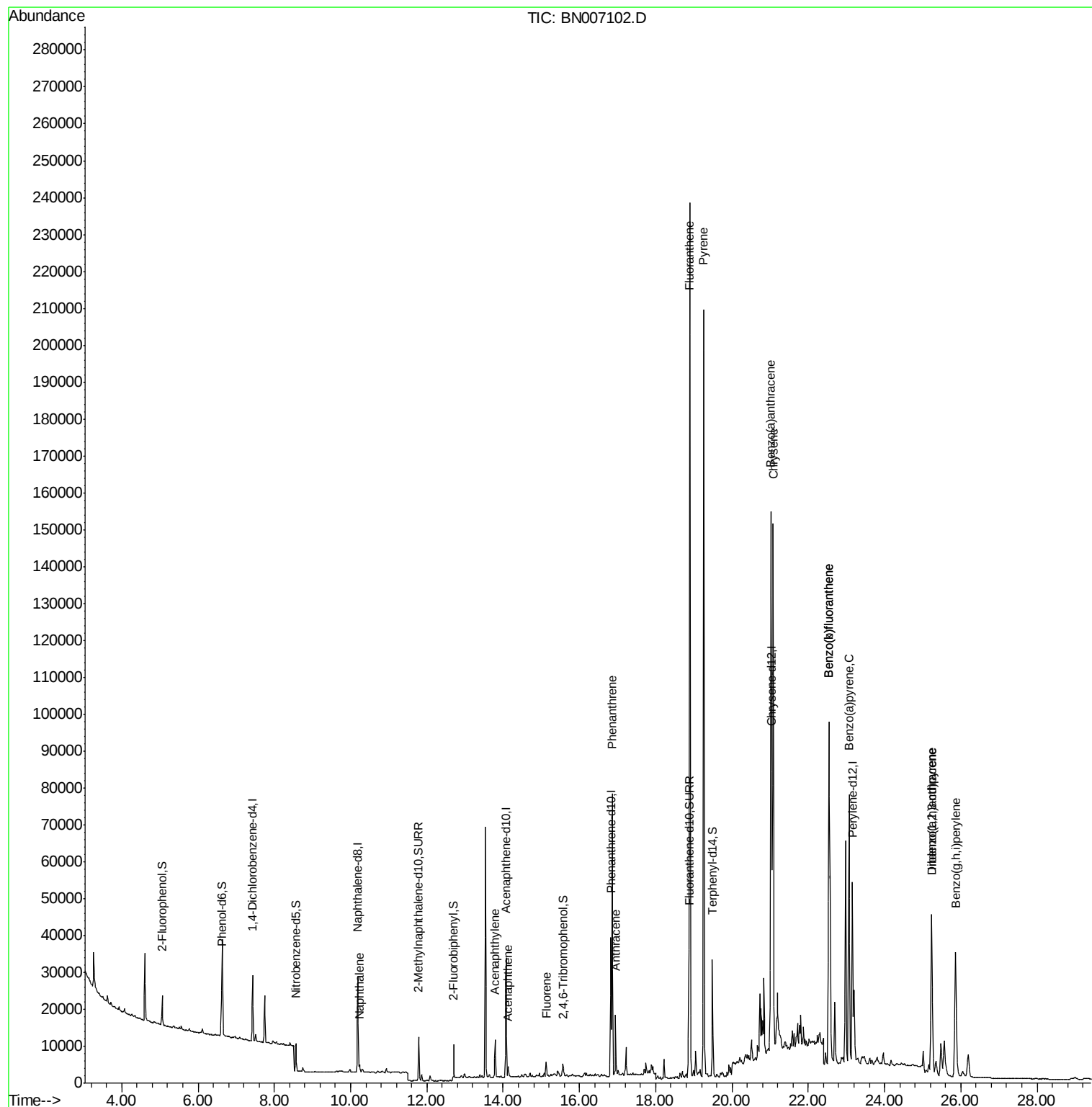
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	2695	0.028	ng	# 91
15) Acenaphthylene	13.79	152	12167	0.120	ng	99
16) Acenaphthene	14.13	154	1639	0.025	ng	93
17) Fluorene	15.13	166	2759	0.028	ng	93
22) Phenanthrene	16.87	178	78591	0.548	ng	100
23) Anthracene	16.95	178	17311	0.132	ng	# 94
25) Fluoranthene	18.90	202	210312	1.146	ng	100
27) Pyrene	19.26	202	194539	1.124	ng	# 96
29) Benzo(a)anthracene	21.02	228	120884	0.670	ng	96
30) Chrysene	21.08	228	124453	0.710	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	67977	0.352	ng	98
33) Benzo(b)fluoranthene	22.54	252	153830	0.748	ng	99
34) Benzo(k)fluoranthene	22.54	252	153830	0.757	ng	99
35) Benzo(a)pyrene	23.07	252	102358	0.549	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	18933	0.102	ng	# 90
37) Benzo(g,h,i)perylene	25.86	276	70025	0.366	ng	100

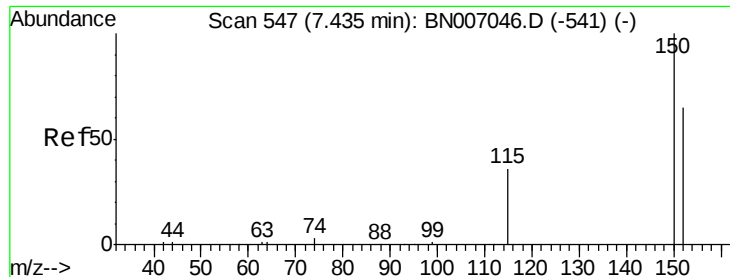
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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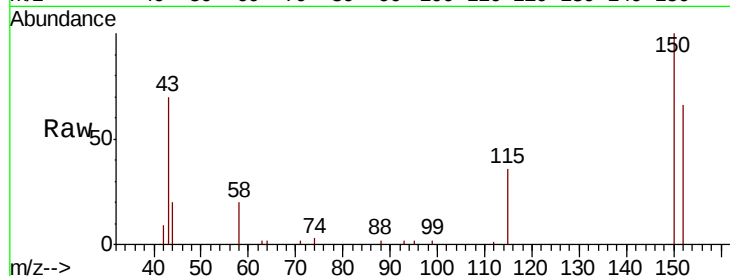


#1

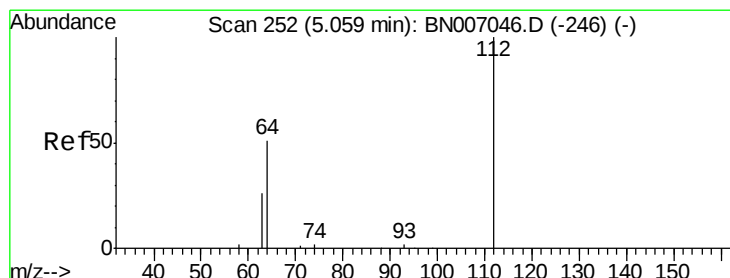
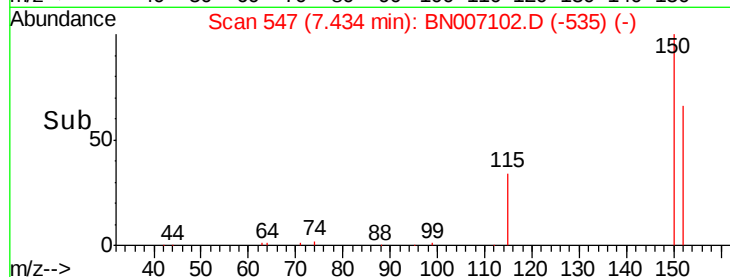
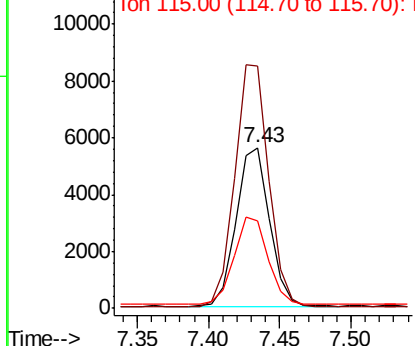
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9013
Ion Ratio Lower Upper
152 100
150 151.0 121.7 182.5
115 54.4 46.2 69.4



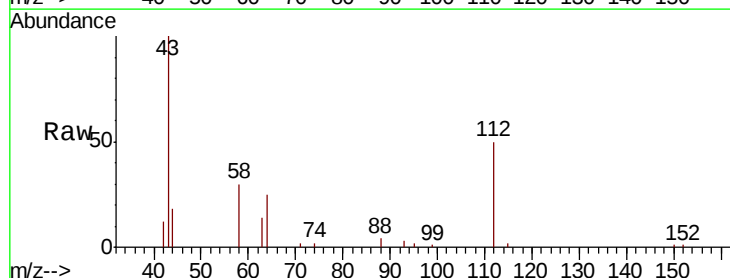
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



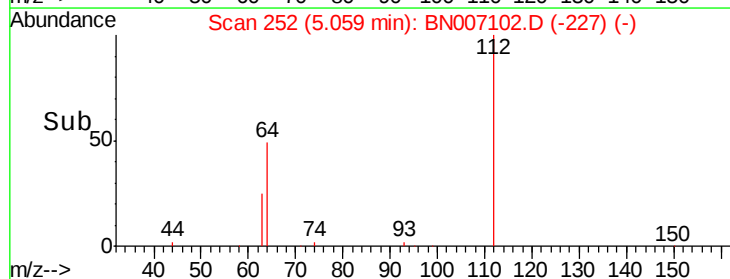
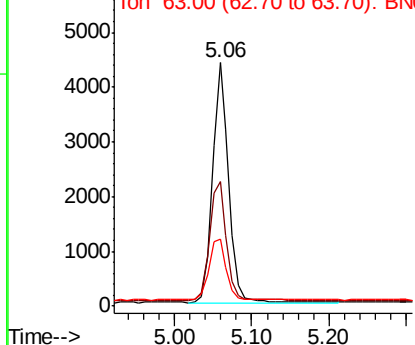
#3

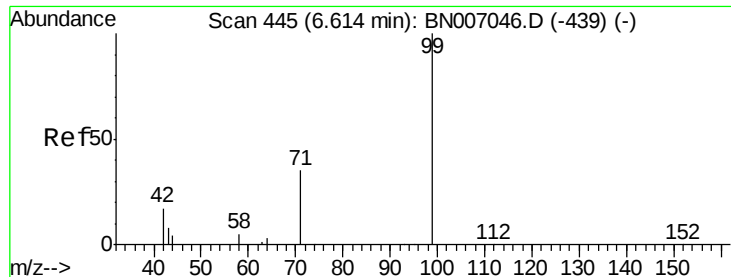
2-Fluorophenol
Concen: 0.296 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Tgt Ion:112 Resp: 6416
Ion Ratio Lower Upper
112 100
64 51.8 42.6 63.8
63 27.2 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: 0.324 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

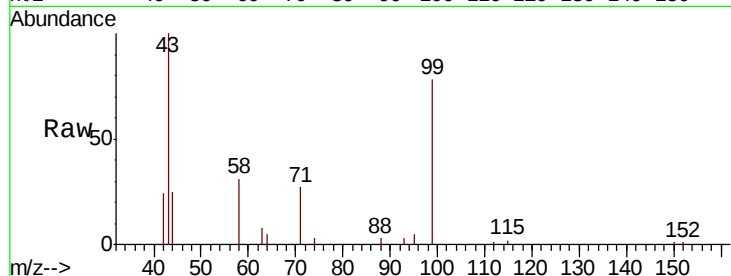
Instrument :

BNA_N

ClientSampleId :

Tot Ion: 99 Resp: 8704

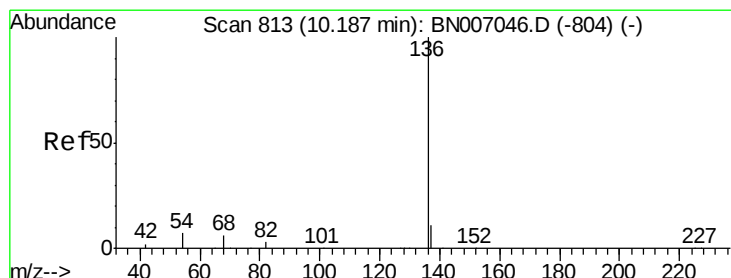
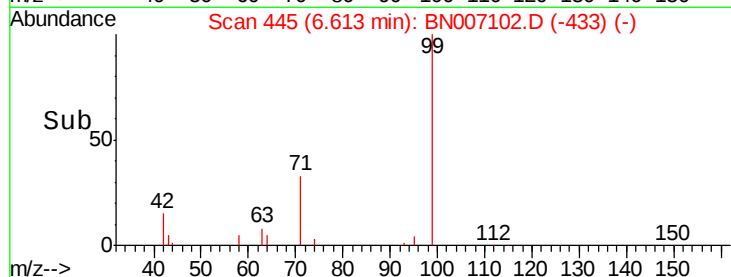
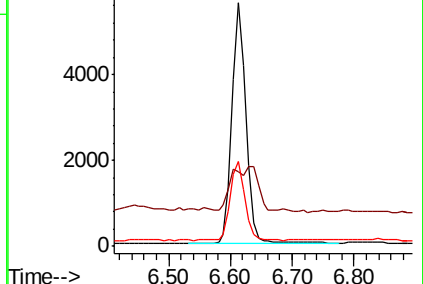
Ion	Ratio	Lower	Upper
99	100		
42	33.9	15.8	23.6#
71	34.4	27.0	40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007102.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007102.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007102.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

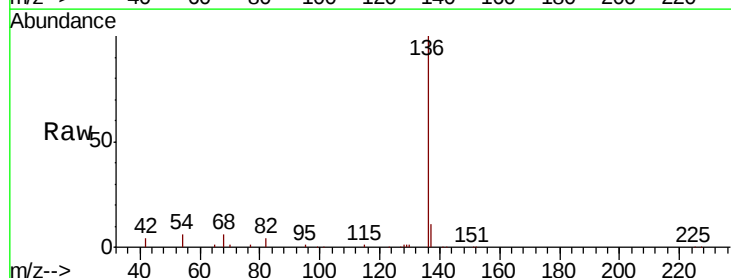
Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Tgt Ion: 136 Resp: 33901

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.4	14.0
54	6.0	6.6	9.8#
68	5.6	6.0	9.0#

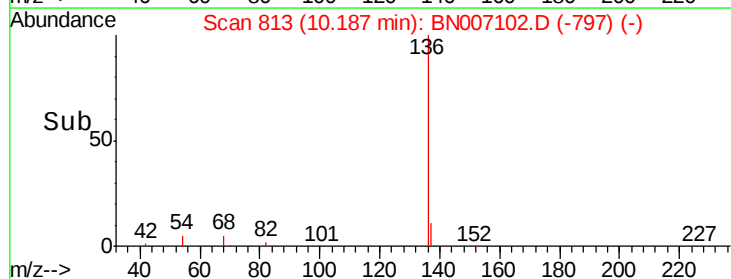
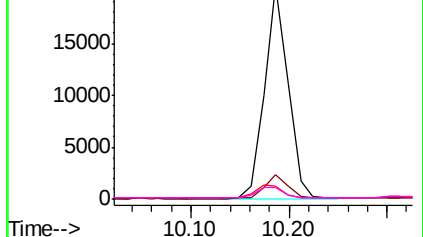


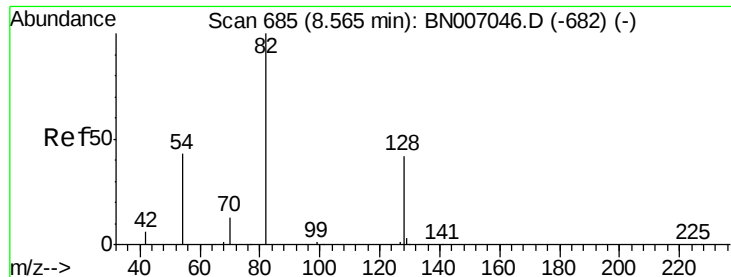
Abundance Ion 136.00 (135.70 to 136.70): BN007102.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007102.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007102.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007102.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.246 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

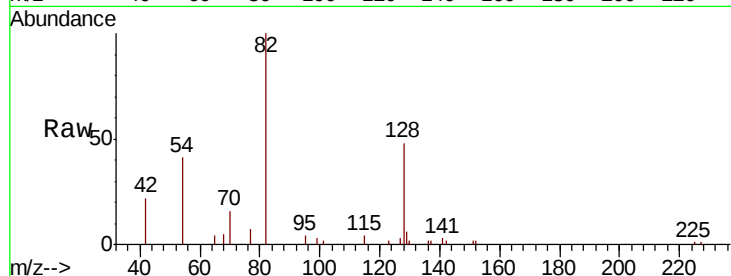
Tot Ion: 82 Resp: 6720

Ion Ratio Lower Upper

82 100

128 48.5 34.6 51.8

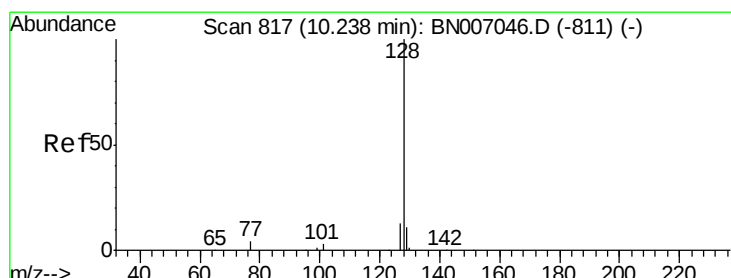
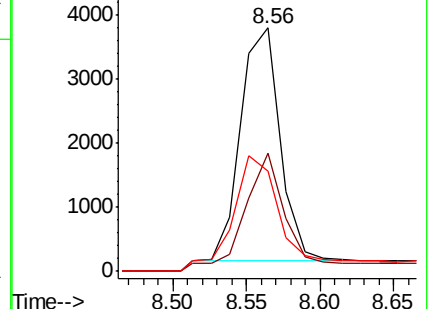
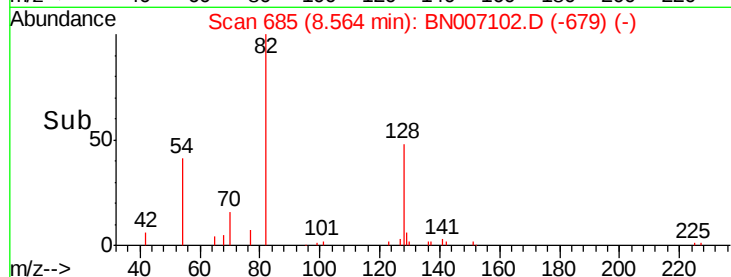
54 41.3 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007102.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007102.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007102.D (-679) (-)



#8

Naphthalene

Concen: 0.028 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

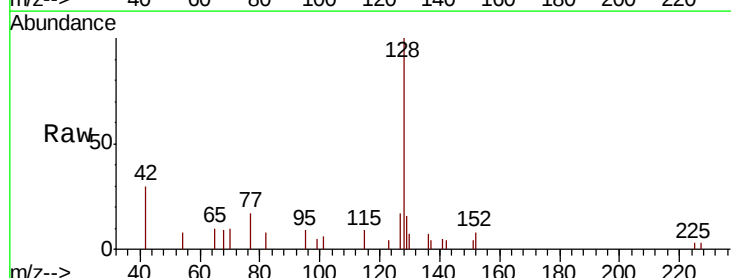
Tgt Ion: 128 Resp: 2695

Ion Ratio Lower Upper

128 100

129 16.5 9.4 14.2#

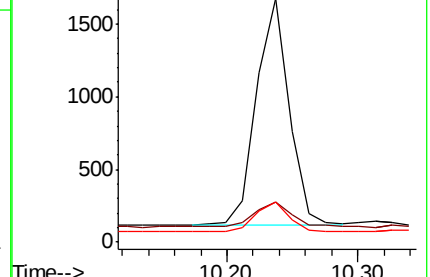
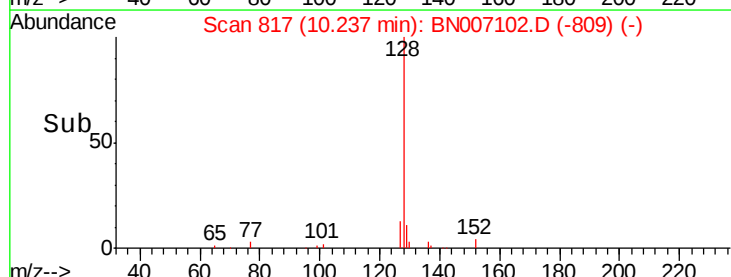
127 16.6 11.0 16.6#

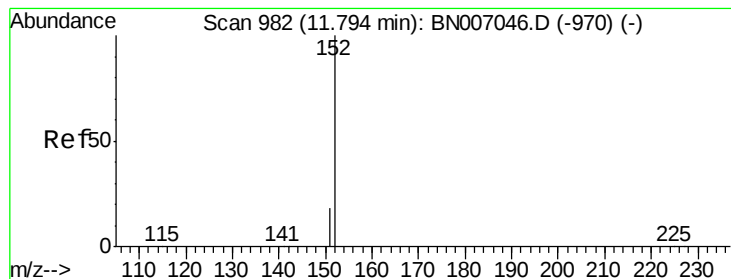


Abundance Ion 128.00 (127.70 to 128.70): BN007102.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007102.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007102.D (-809) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.255 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

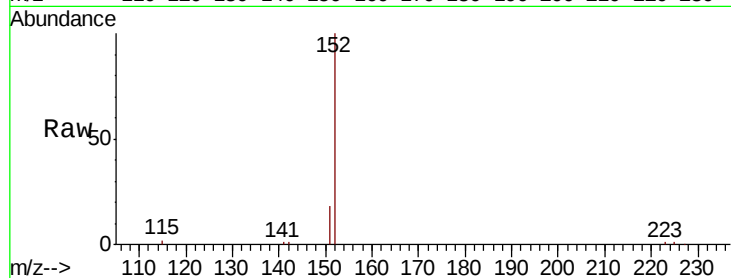
ClientSampleId :

Tot Ion:152 Resp: 16148

Ion Ratio Lower Upper

152 100

151 19.6 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

10000

8000

6000

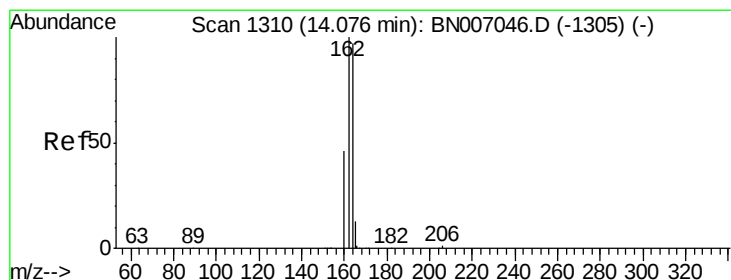
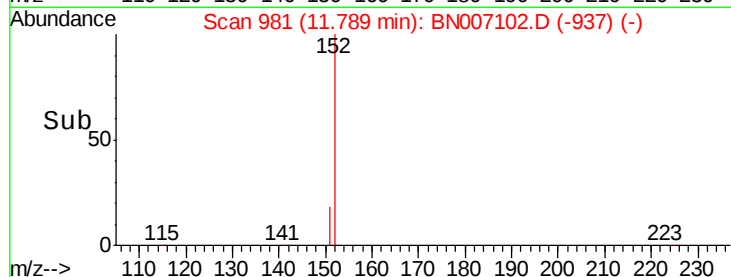
4000

2000

0

Time-->

11.70 11.80 11.90



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

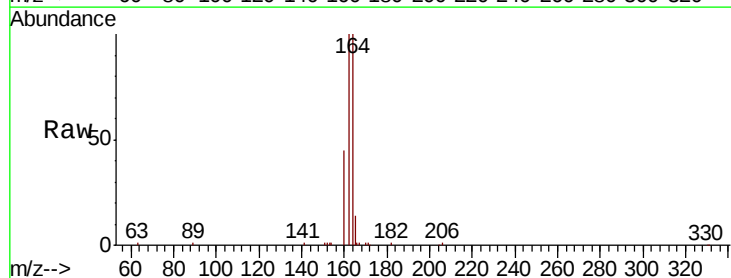
Tgt Ion:164 Resp: 19349

Ion Ratio Lower Upper

164 100

162 100.0 82.2 123.4

160 45.5 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

14.08

15000

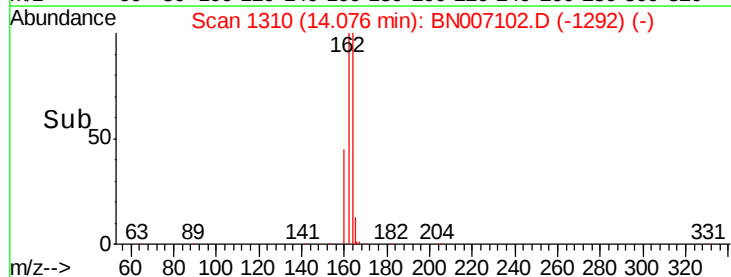
10000

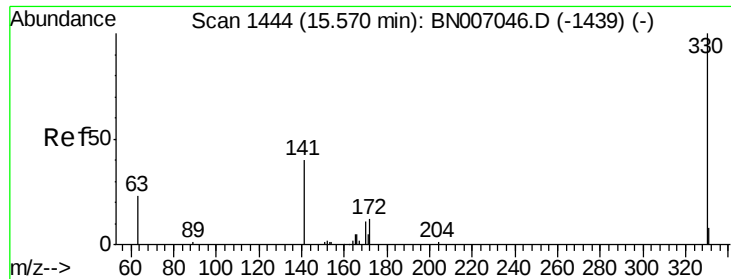
5000

0

Time-->

14.00 14.10 14.20

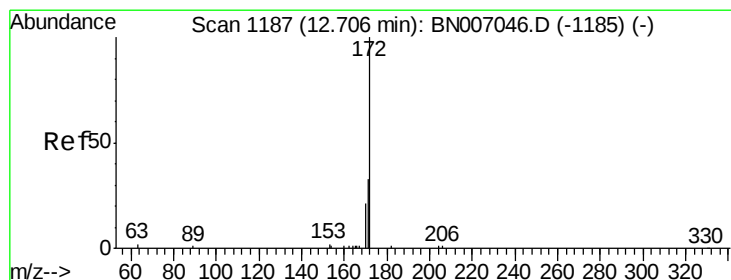
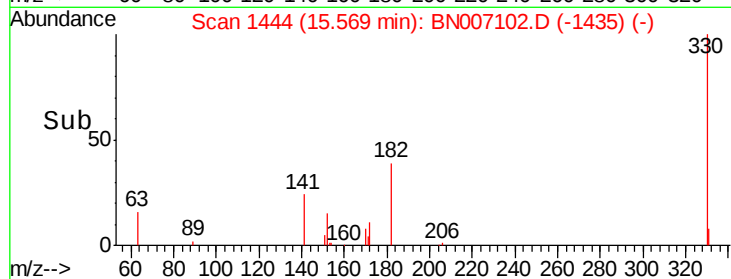
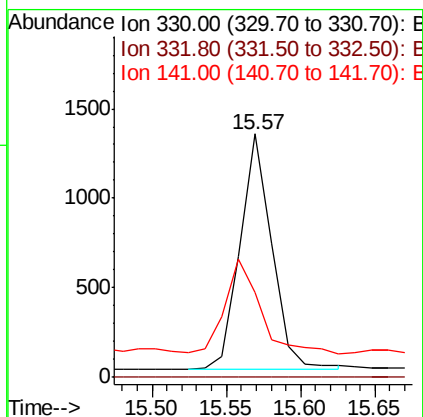
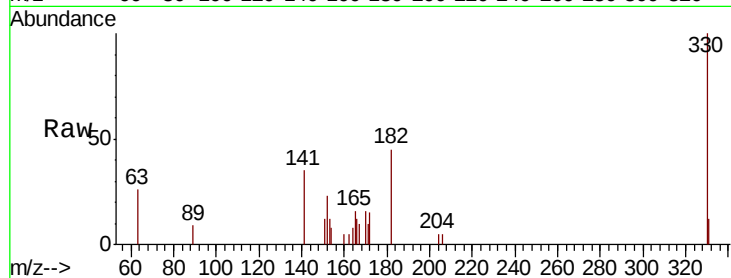




#13
 2,4,6-Tribromophenol
 Concen: 0.188 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007102.D
 Acq: 12 Aug 2019 17:42

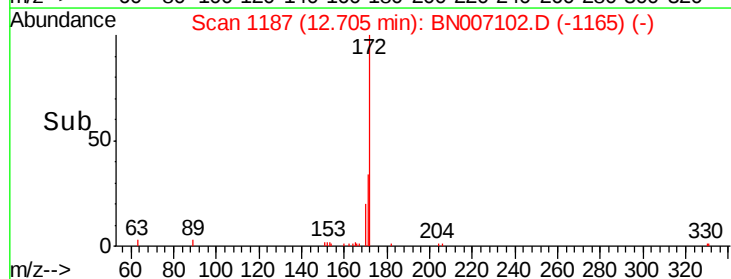
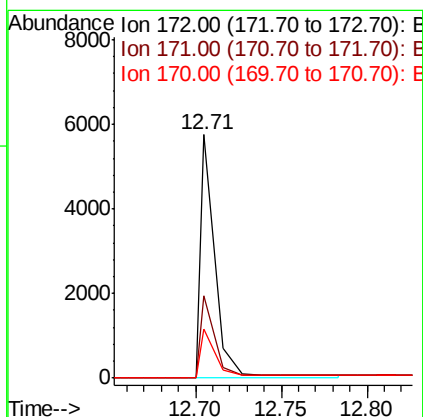
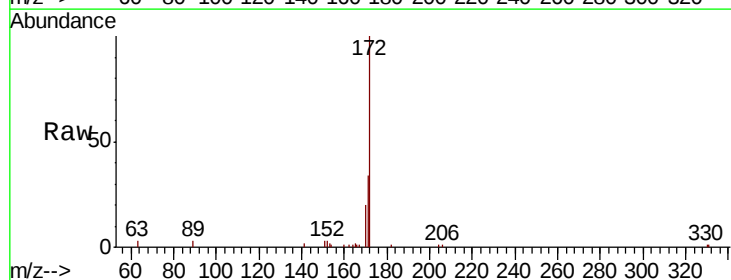
Instrument :
 BNA_N
 ClientSampleId :

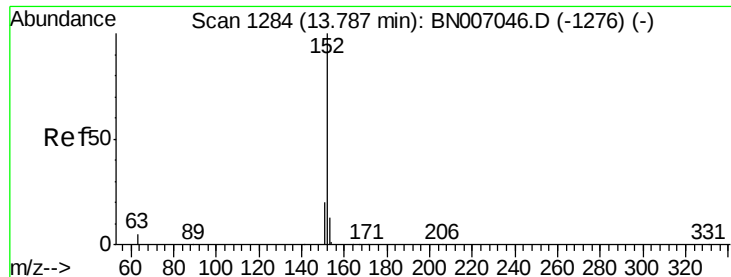
Tot Ion:330 Resp: 1957
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 43.8 33.6 50.4



#14
 2-Fluorobiphenyl
 Concen: 0.143 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007102.D
 Acq: 12 Aug 2019 17:42

Tgt Ion:172 Resp: 4009
 Ion Ratio Lower Upper
 172 100
 171 33.9 26.3 39.5
 170 20.3 17.0 25.4





#15

Acenaphthylene

Concen: 0.120 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007102.D

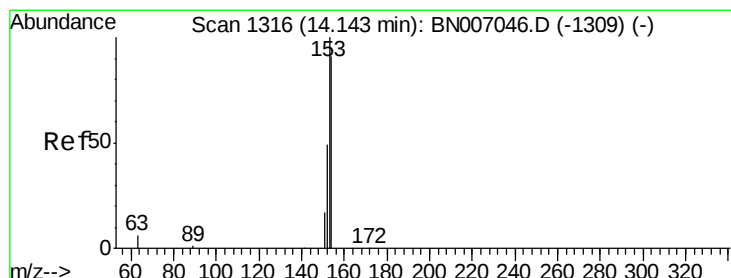
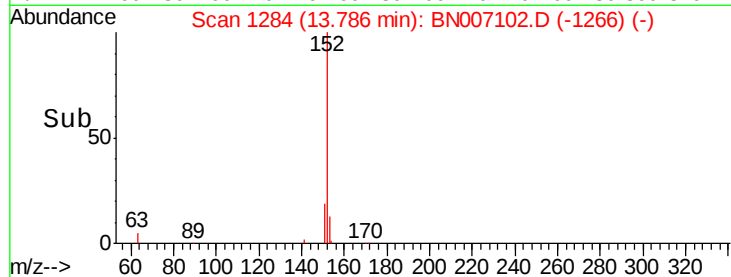
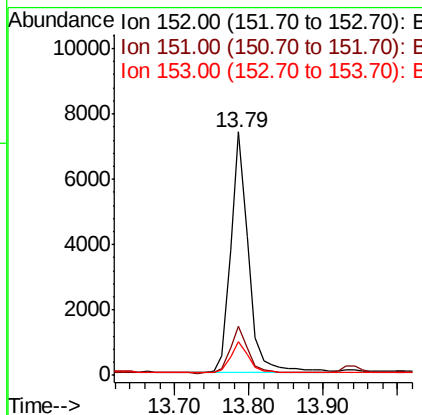
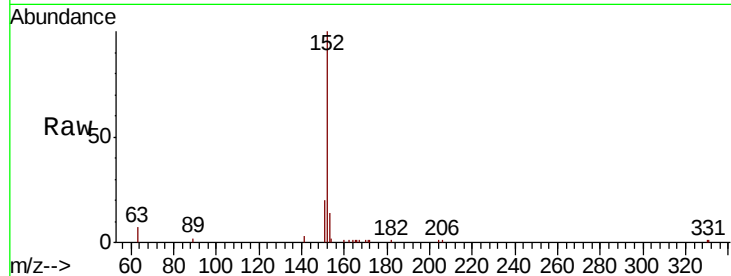
Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

Tot Ion:152	Resp:	12167
Ion Ratio	Lower	Upper
152	100	
151	19.7	15.8 23.6
153	13.5	10.4 15.6



#16

Acenaphthene

Concen: 0.025 ng

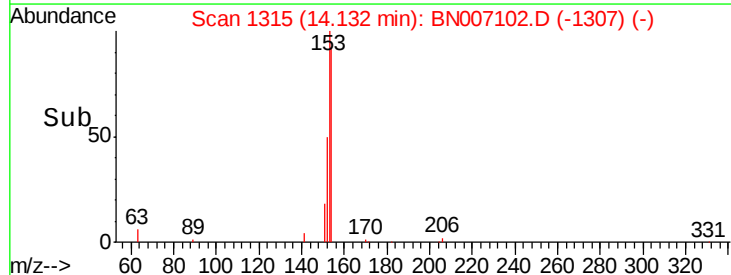
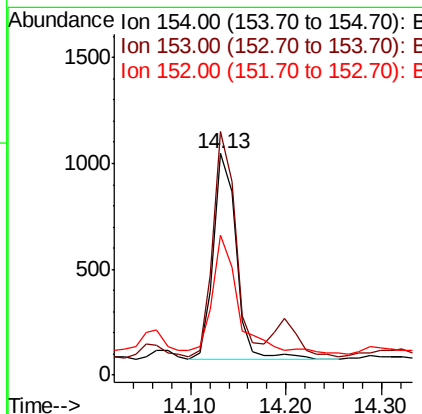
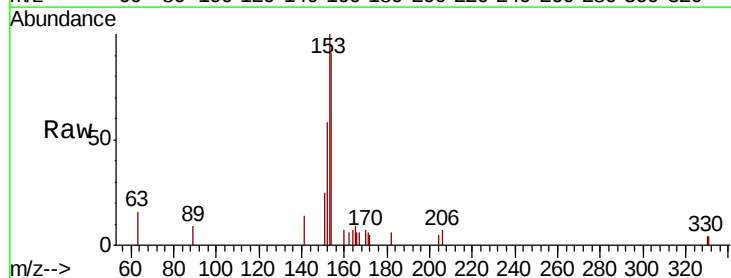
RT: 14.13 min Scan# 1315

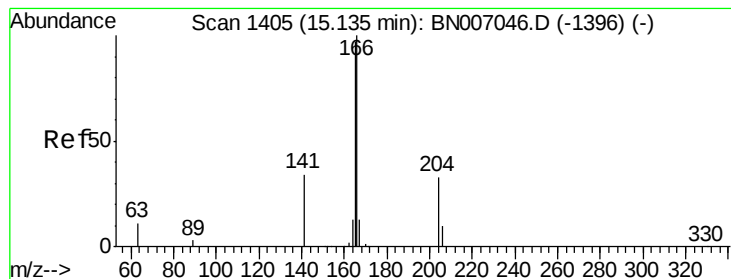
Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Tgt Ion:154	Resp:	1639
Ion Ratio	Lower	Upper
154	100	
153	107.4	89.5 134.3
152	66.1	44.8 67.2





#17

Fluorene

Concen: 0.028 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

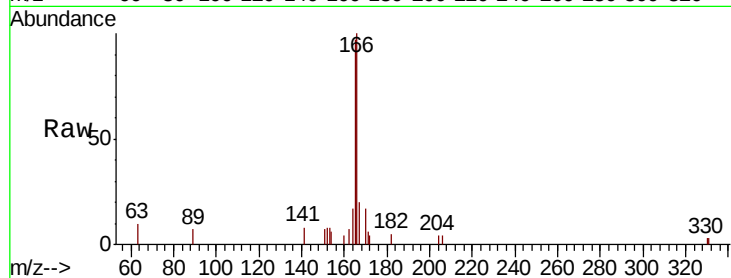
Tot Ion:166 Resp: 2759

Ion Ratio Lower Upper

166 100

165 105.0 77.9 116.9

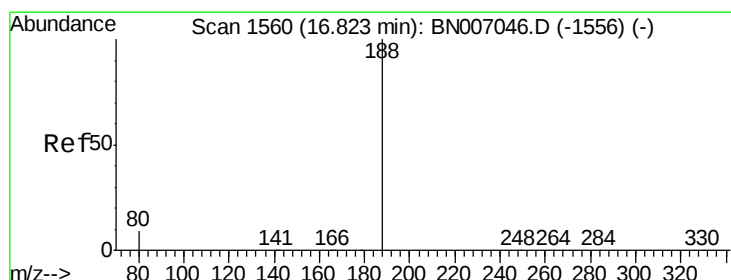
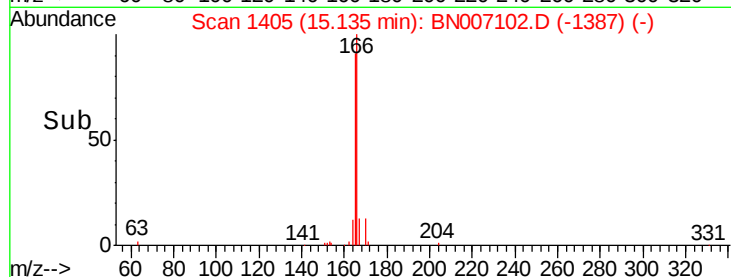
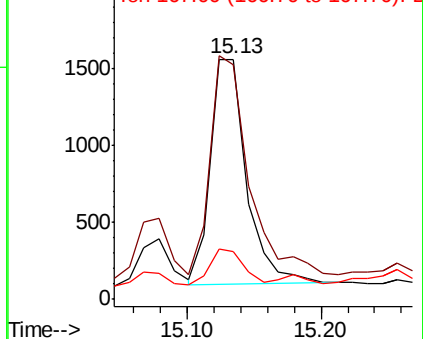
167 14.2 10.9 16.3



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: BN007102.D

Acq: 12 Aug 2019 17:42

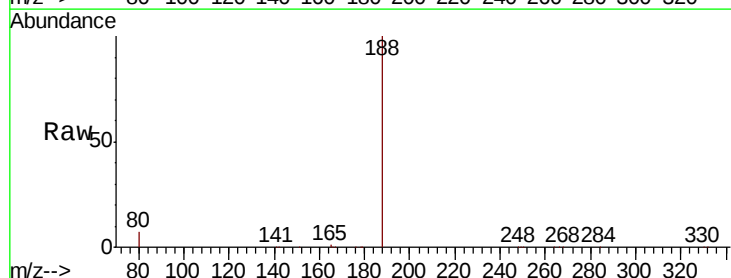
Tgt Ion:188 Resp: 47852

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

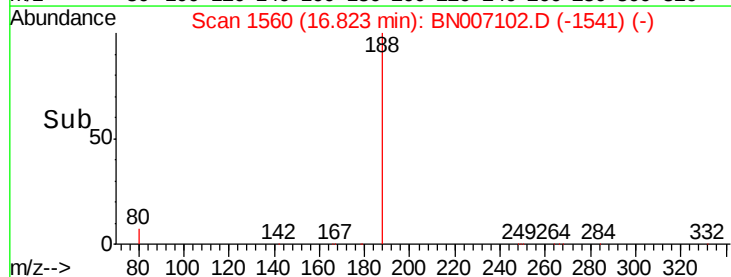
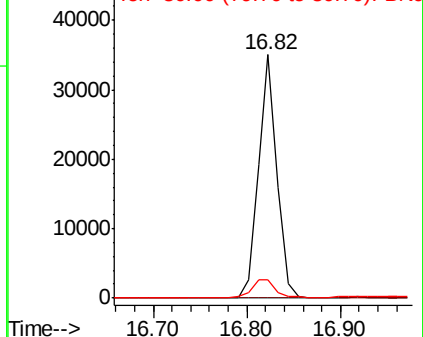
80 7.3 7.8 11.6#

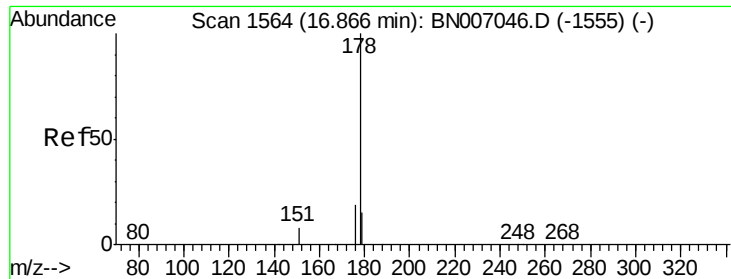


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC

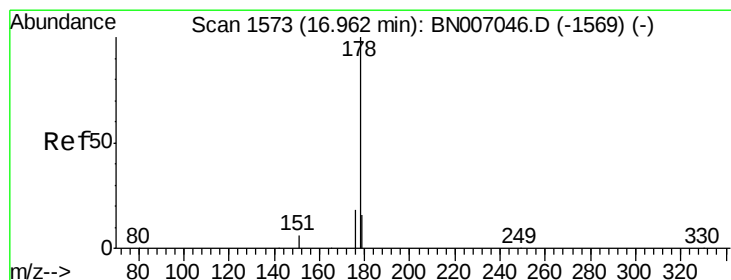
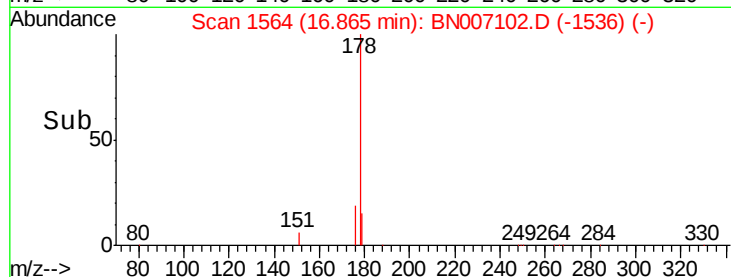
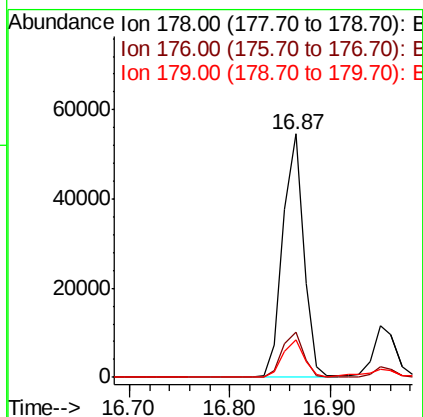
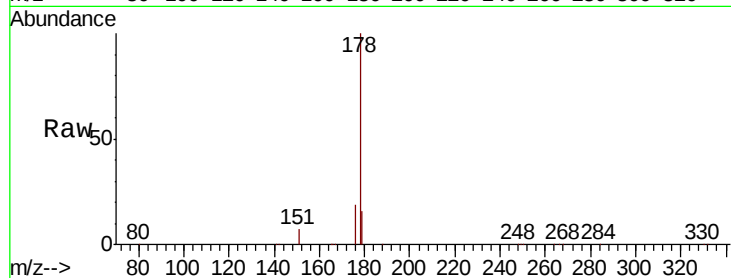




#22
Phenanthrene
Concen: 0.548 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

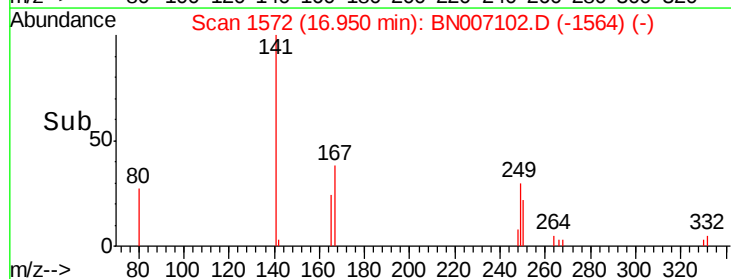
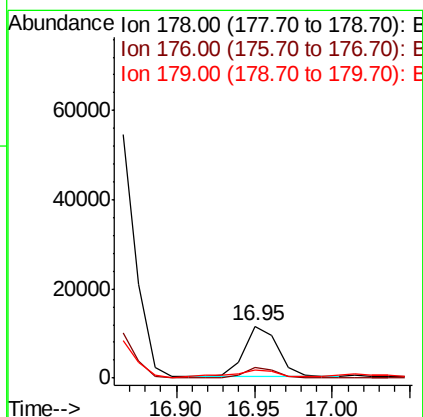
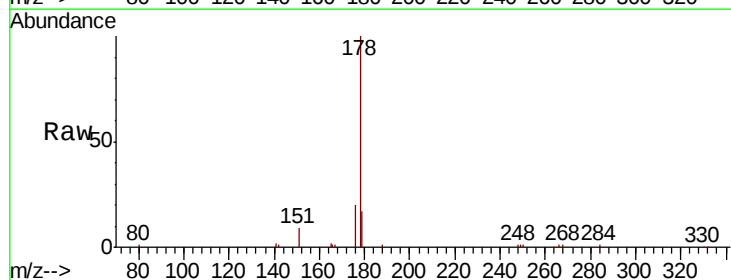
Instrument :
BNA_N
ClientSampleId :

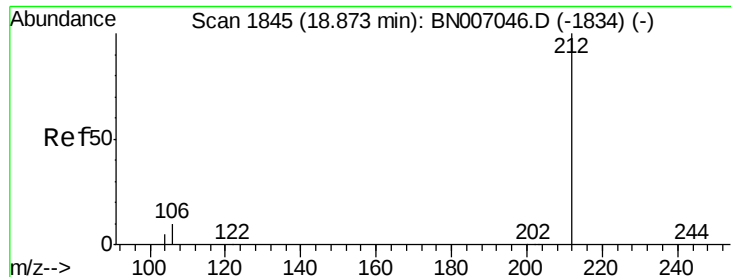
Tot Ion:178 Resp: 78591
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 15.3 12.3 18.5



#23
Anthracene
Concen: 0.132 ng
RT: 16.95 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Tgt Ion:178 Resp: 17311
Ion Ratio Lower Upper
178 100
176 18.8 14.6 21.8
179 20.4 12.5 18.7#





#24

Fluoranthene-d10

Concen: 0.238 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

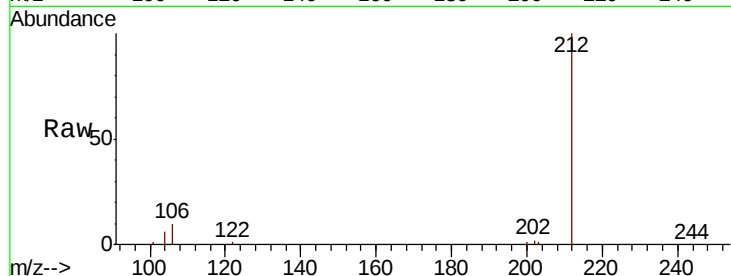
Tot Ion:212 Resp: 40361

Ion Ratio Lower Upper

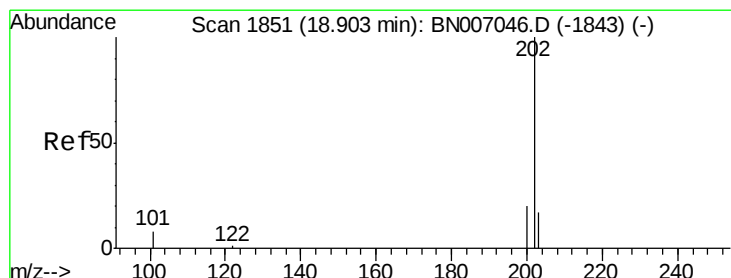
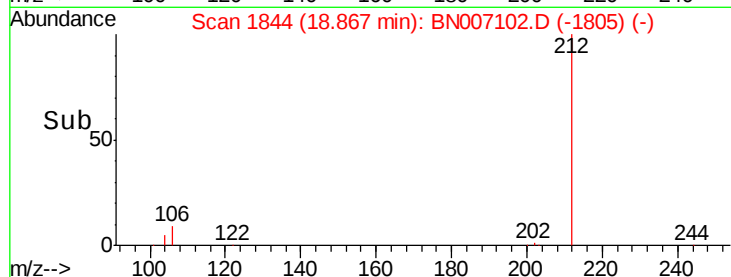
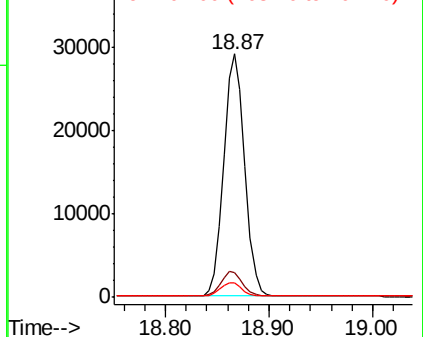
212 100

106 10.2 8.2 12.2

104 5.7 4.5 6.7



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



#25

Fluoranthene

Concen: 1.146 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

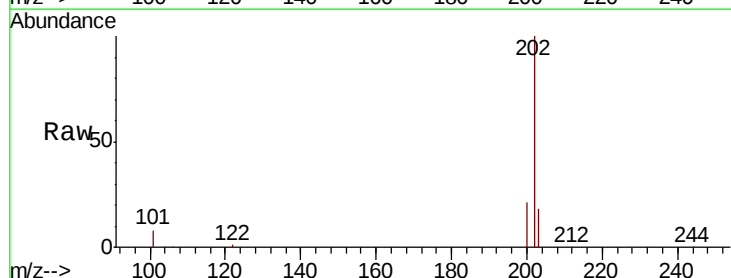
Tgt Ion:202 Resp: 210312

Ion Ratio Lower Upper

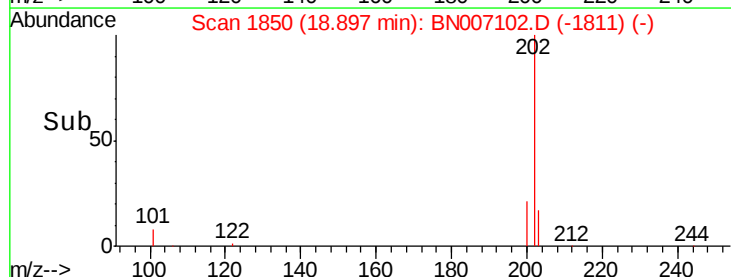
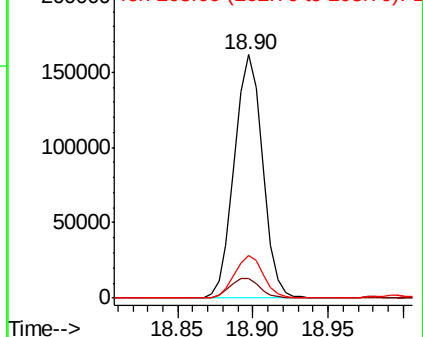
202 100

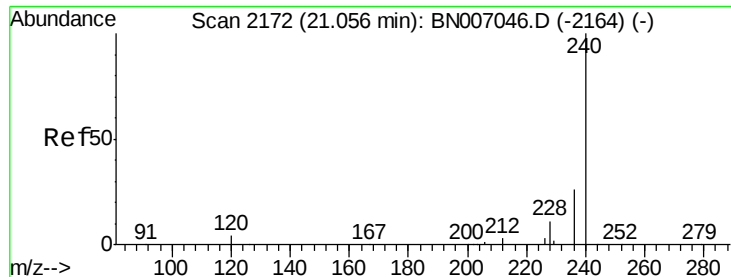
101 8.5 7.0 10.4

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

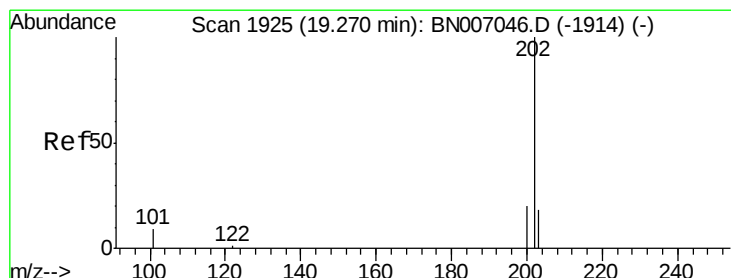
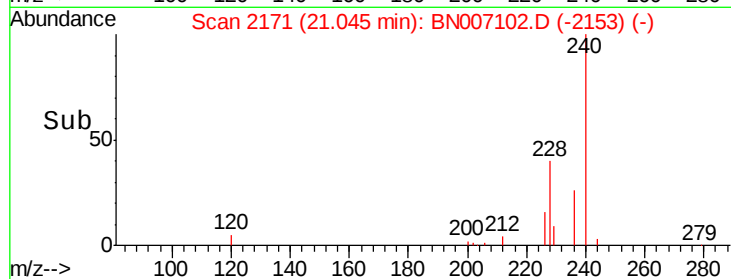
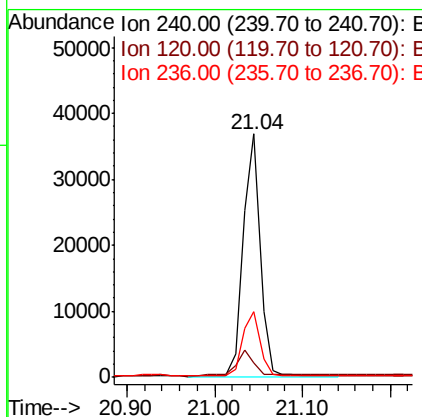
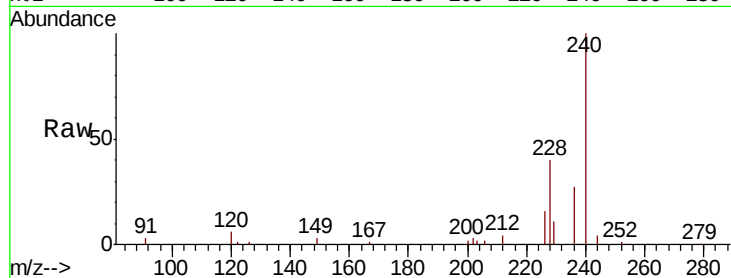




#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.04 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

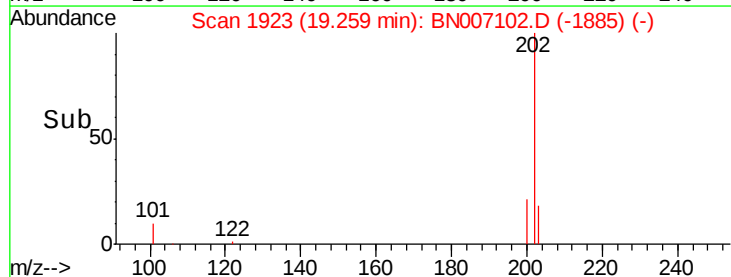
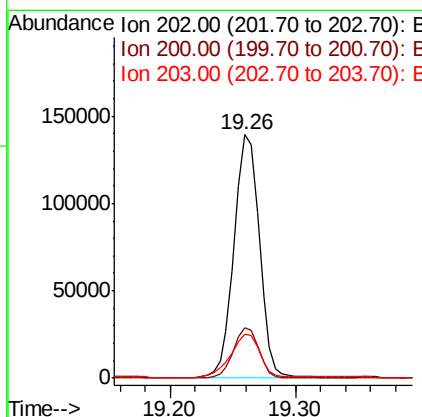
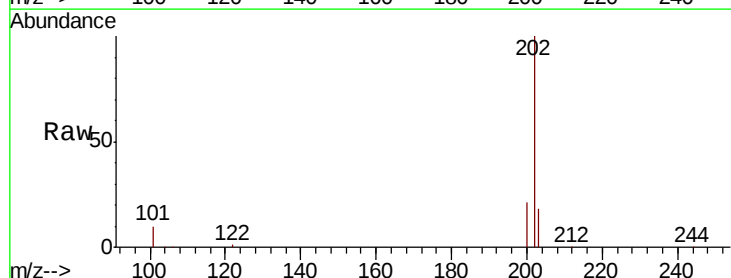
Instrument :
BNA_N
ClientSampleId :

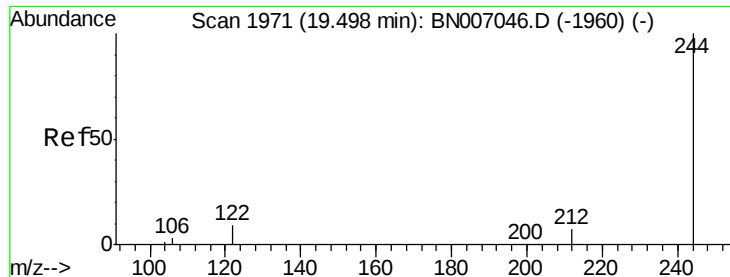
Tot Ion:240 Resp: 49350
Ion Ratio Lower Upper
240 100
120 5.7 4.0 6.0
236 27.1 21.3 31.9



#27
Pyrene
Concen: 1.124 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Tgt Ion:202 Resp: 194539
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 21.1 14.0 21.0#





#28

Terphenyl-d14

Concen: 0.222 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

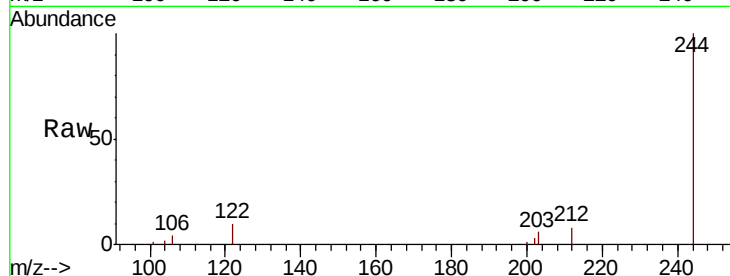
Tot Ion:244 Resp: 29884

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

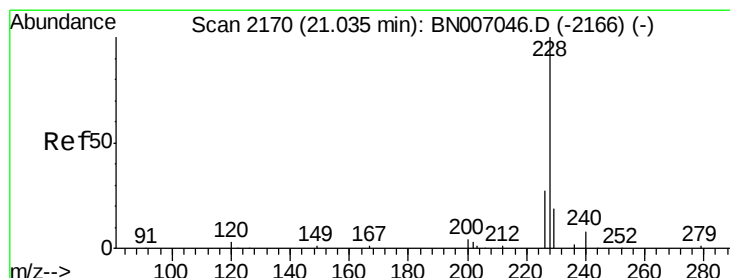
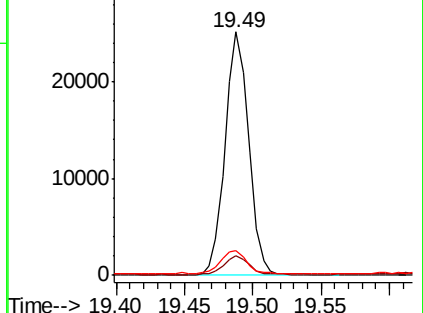
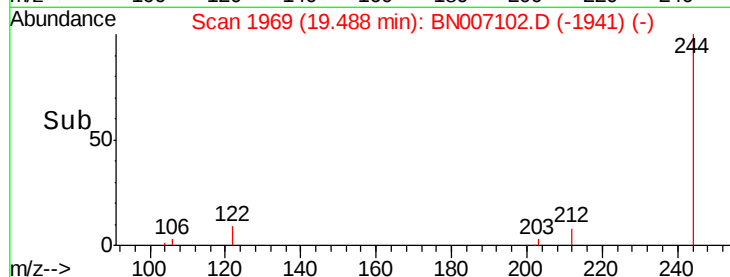
122 10.2 7.4 11.2



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: 0.670 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

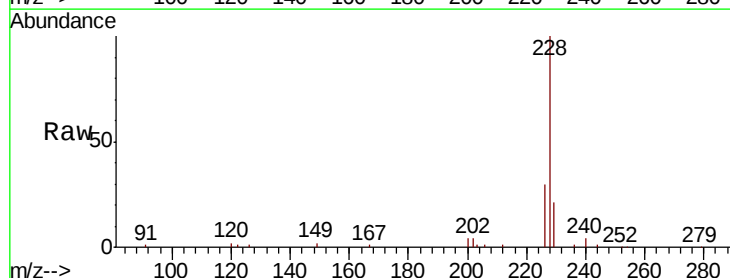
Tgt Ion:228 Resp: 120884

Ion Ratio Lower Upper

228 100

226 29.8 21.8 32.6

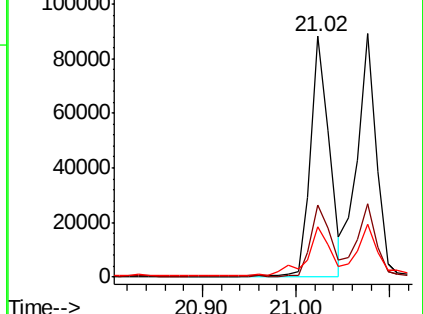
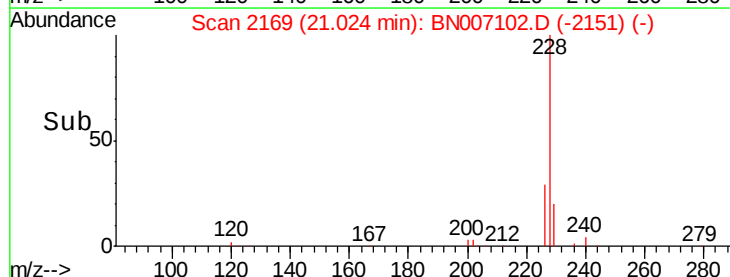
229 20.7 15.6 23.4

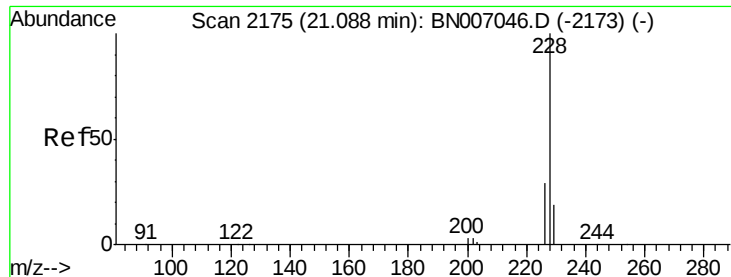


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.710 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

Instrument :

BNA_N

ClientSampleId :

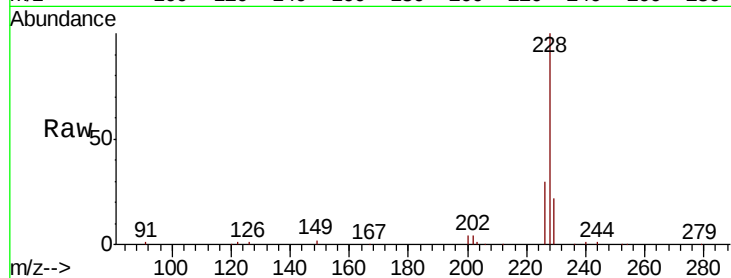
Tot Ion:228 Resp: 124453

Ion Ratio Lower Upper

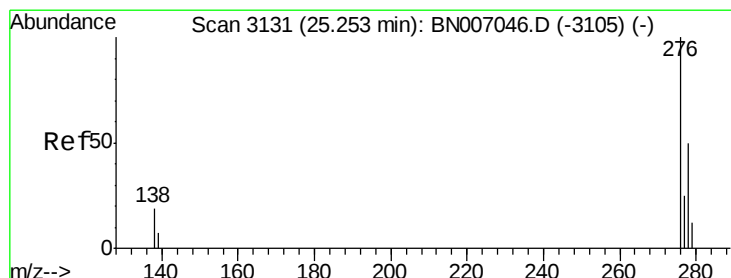
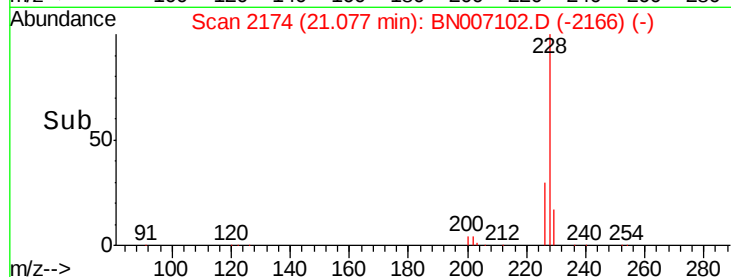
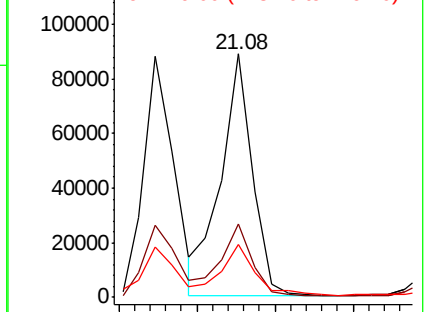
228 100

226 30.1 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: 0.352 ng

RT: 25.23 min Scan# 3126

Delta R.T. -0.02 min

Lab File: BN007102.D

Acq: 12 Aug 2019 17:42

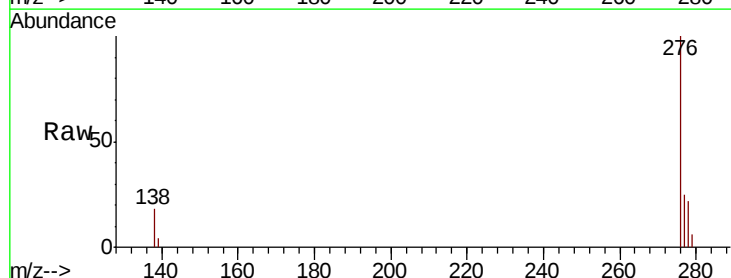
Tgt Ion:276 Resp: 67977

Ion Ratio Lower Upper

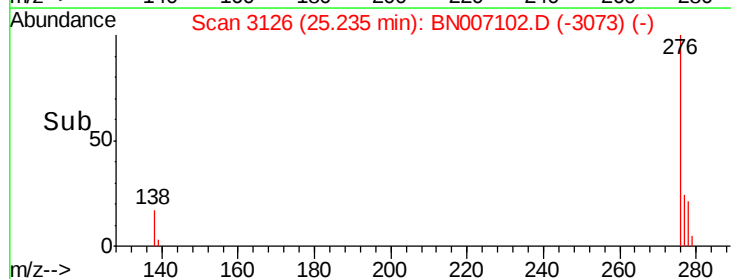
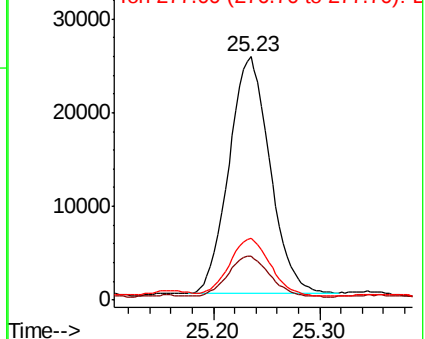
276 100

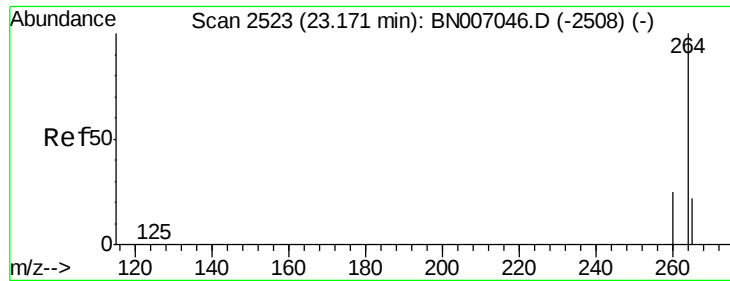
138 18.0 16.0 24.0

277 24.8 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

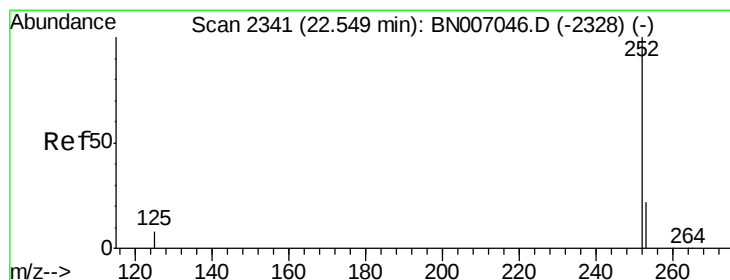
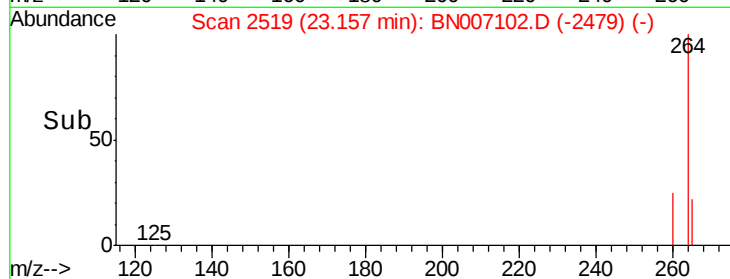
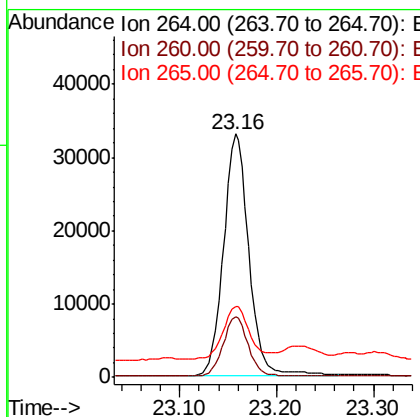
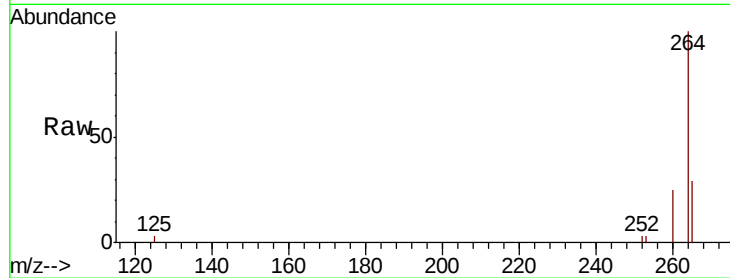




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007102.D
 Acq: 12 Aug 2019 17:42

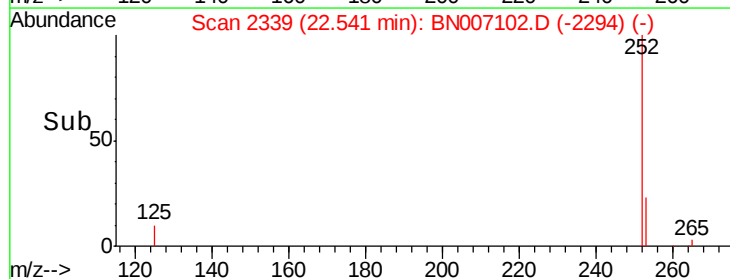
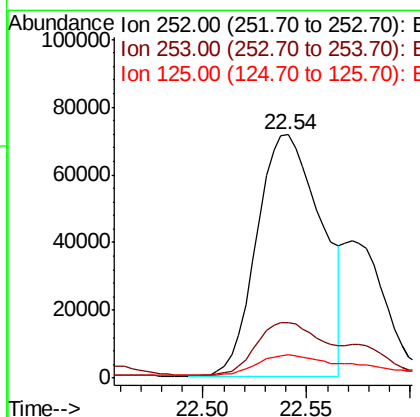
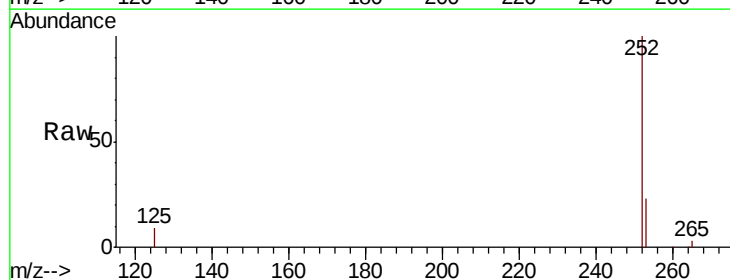
Instrument :
 BNA_N
 ClientSampleId :

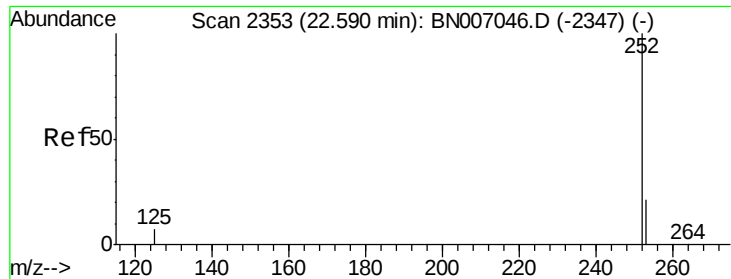
Tot Ion:264 Resp: 60011
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.8 29.8
 265 29.3 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 0.748 ng
 RT: 22.54 min Scan# 2339
 Delta R.T. -0.01 min
 Lab File: BN007102.D
 Acq: 12 Aug 2019 17:42

Tgt Ion:252 Resp: 153830
 Ion Ratio Lower Upper
 252 100
 253 22.9 18.2 27.2
 125 9.5 7.4 11.0

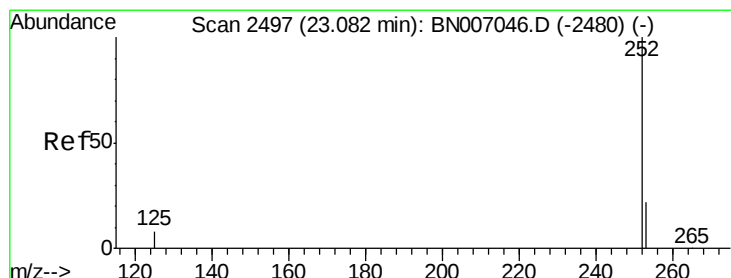
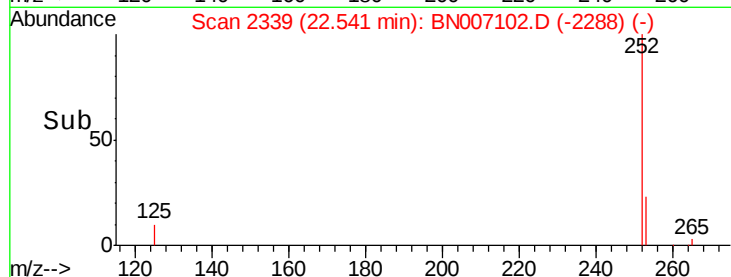
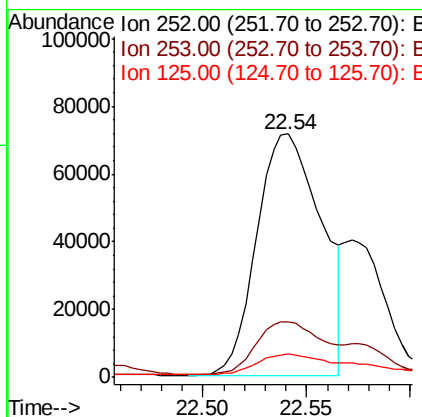
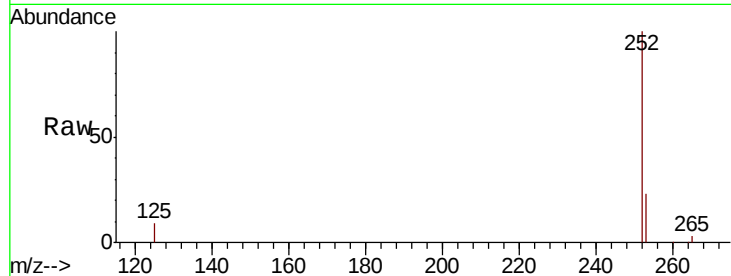




#34
Benzo(k)fluoranthene
Concen: 0.757 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.05 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

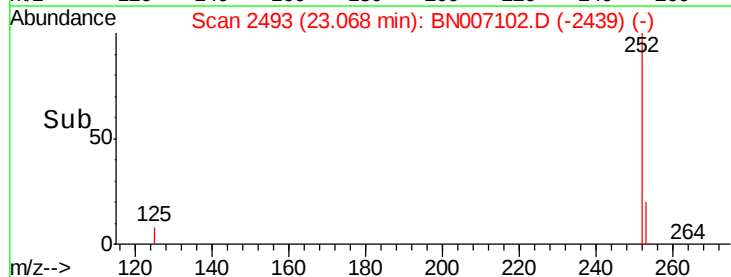
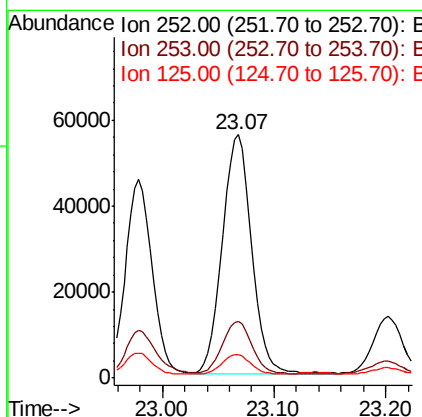
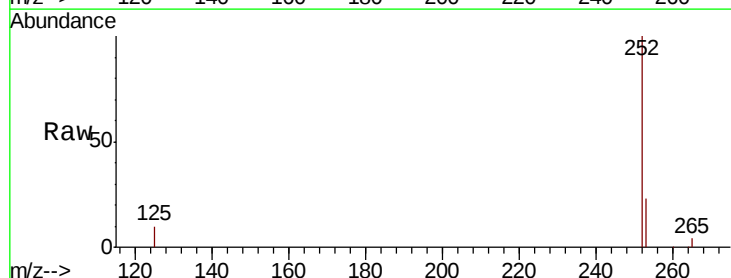
Instrument :
BNA_N
ClientSampleId :

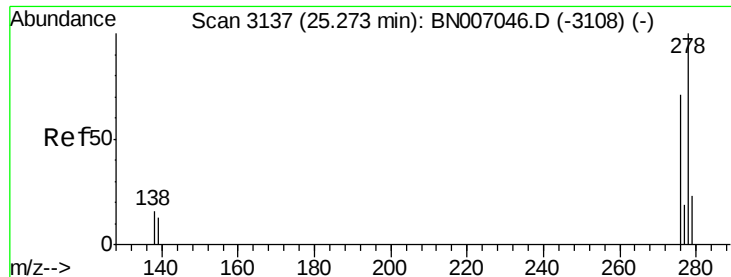
Tot Ion:252 Resp: 153830
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 9.5 7.4 11.0



#35
Benzo(a)pyrene
Concen: 0.549 ng
RT: 23.07 min Scan# 2493
Delta R.T. -0.01 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Tgt Ion:252 Resp: 102358
Ion Ratio Lower Upper
252 100
253 23.3 18.5 27.7
125 9.8 8.2 12.4



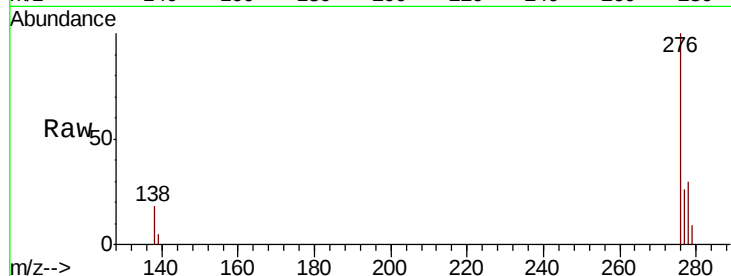


#36
Dibenzo(a,h)anthracene
Concen: 0.102 ng
RT: 25.25 min Scan# 3129
Delta R.T. -0.03 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

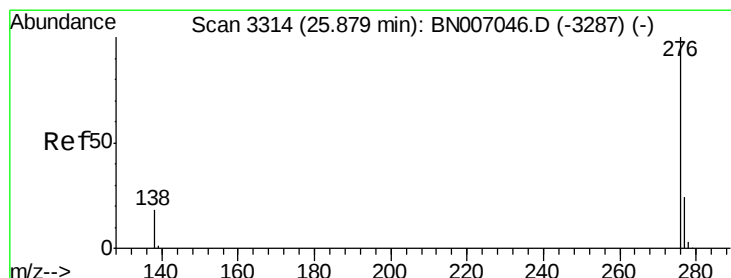
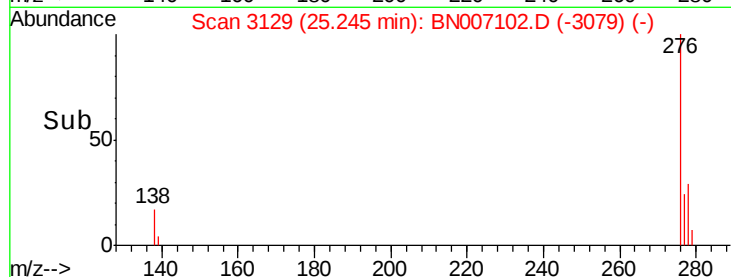
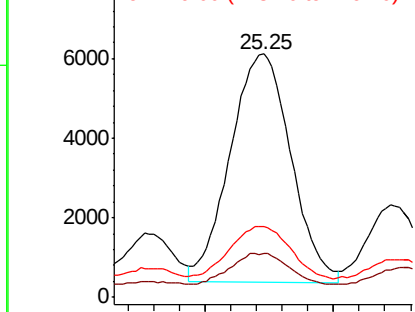
Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 18933

Ion	Ratio	Lower	Upper
278	100		
139	18.1	11.3	16.9#
279	28.9	19.3	28.9#



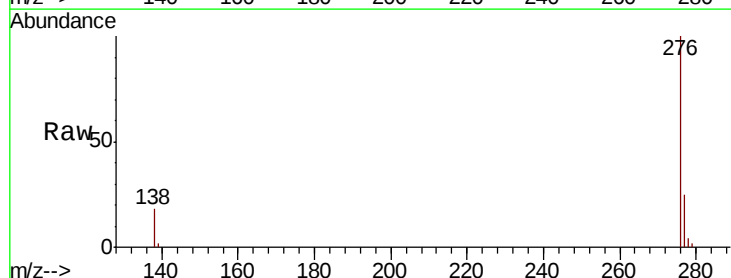
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#37
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 25.86 min Scan# 3309
Delta R.T. -0.02 min
Lab File: BN007102.D
Acq: 12 Aug 2019 17:42

Tgt Ion:276 Resp: 70025

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.8	29.8
138	18.4	14.6	22.0



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

