

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007070.D
 Acq On : 11 Aug 2019 04:23
 Operator : HP/JU
 Sample : K4239-10
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:40:18 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	8559	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32332	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	18594	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	44914	0.40	ng	0.00
26) Chrysene-d12	21.03	240	47348	0.40	ng	-0.02
32) Perylene-d12	23.15	264	51079	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5572	0.27	ng	0.00
4) Phenol-d6	6.61	99	7707	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	5874	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12119	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1680	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4125	0.15	ng	0.00
24) Fluoranthene-d10	18.87	212	25921	0.16	ng	0.00
28) Terphenyl-d14	19.49	244	19423	0.15	ng	0.00

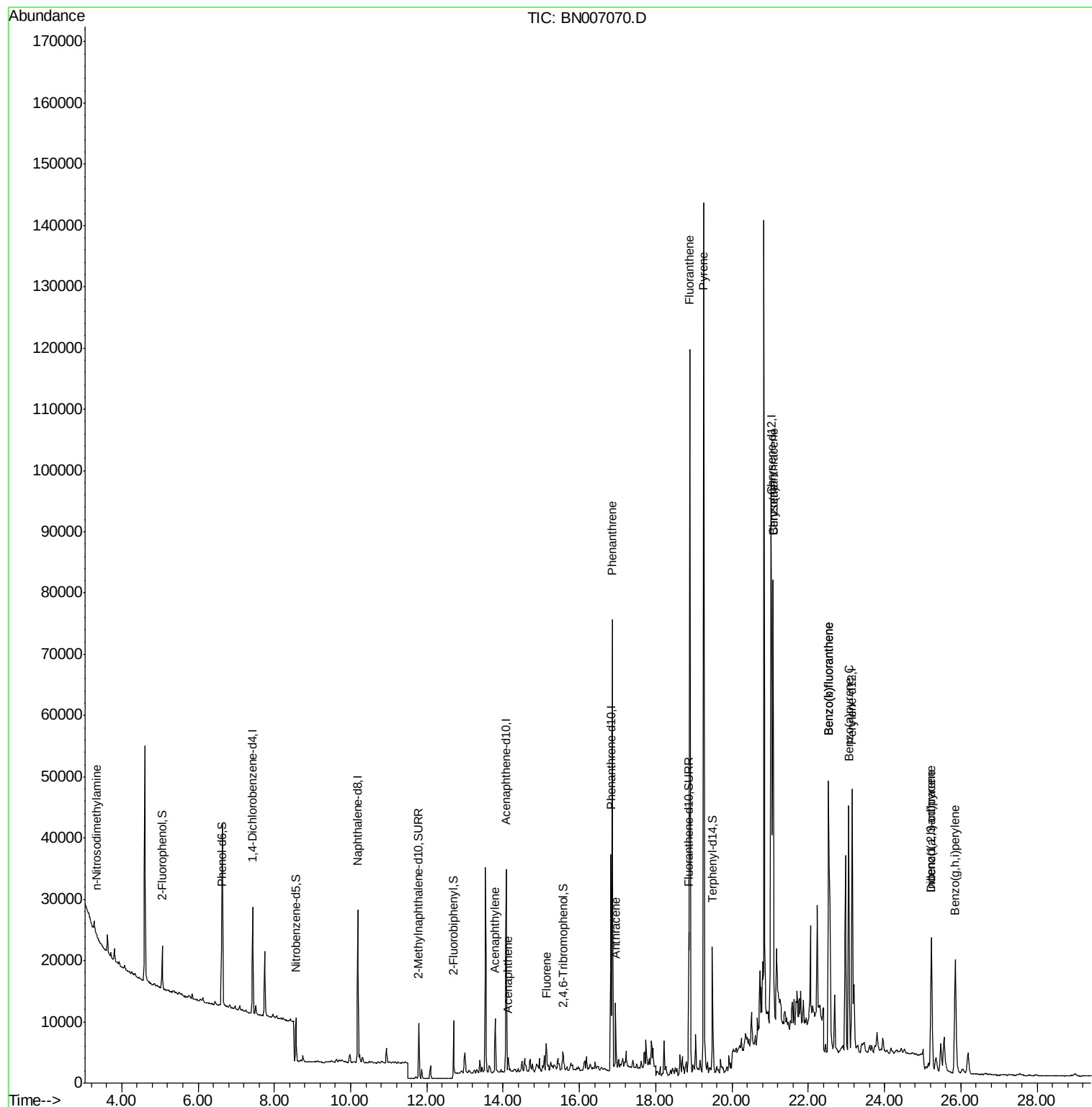
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.35	42	225	0.040	ng	# 1
15) Acenaphthylene	13.79	152	10783	0.111	ng	99
16) Acenaphthene	14.13	154	1402	0.023	ng	95
17) Fluorene	15.14	166	3218	0.035	ng	88
22) Phenanthrene	16.87	178	70806	0.526	ng	100
23) Anthracene	16.96	178	12387	0.101	ng	96
25) Fluoranthene	18.90	202	107455	0.624	ng	99
27) Pyrene	19.26	202	131220	0.790	ng	98
29) Benzo(a)anthracene	21.08	228	69230	0.400	ng	94
30) Chrysene	21.08	228	69184	0.411	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	34905	0.188	ng	97
33) Benzo(b)fluoranthene	22.53	252	78376	0.447	ng	97
34) Benzo(k)fluoranthene	22.53	252	78376	0.453	ng	97
35) Benzo(a)pyrene	23.06	252	54554	0.344	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	9533	0.060	ng	# 80
37) Benzo(g,h,i)perylene	25.85	276	37740	0.232	ng	98

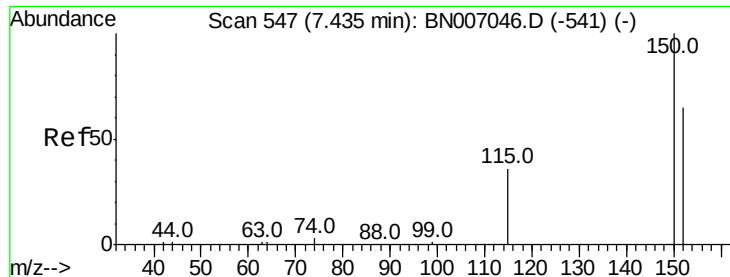
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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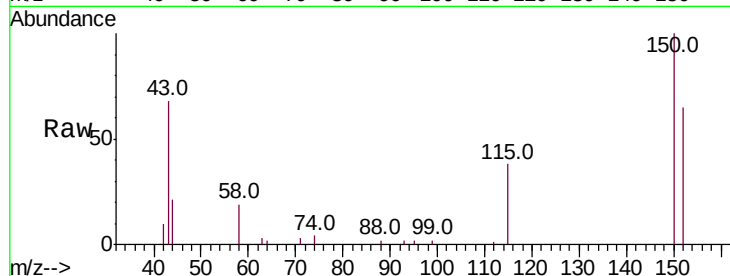


#1

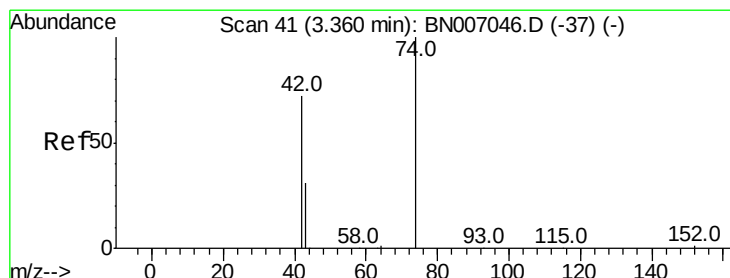
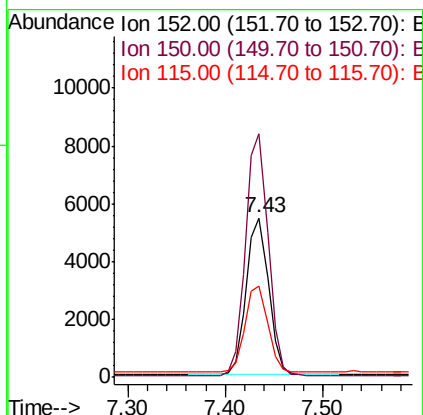
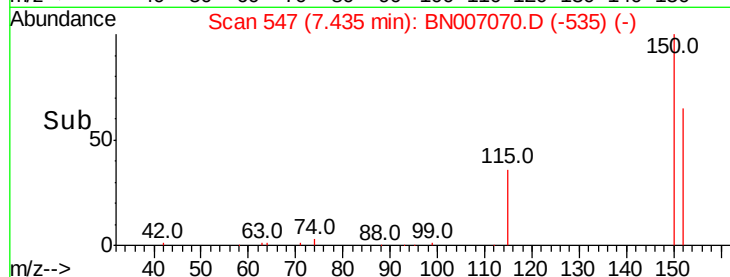
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 8559
Ion Ratio Lower Upper
152 100
150 152.8 121.7 182.5
115 57.5 46.2 69.4



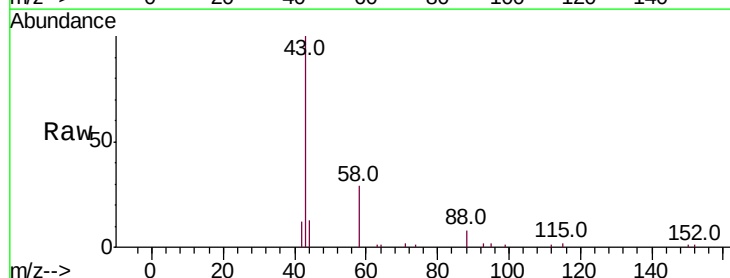
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



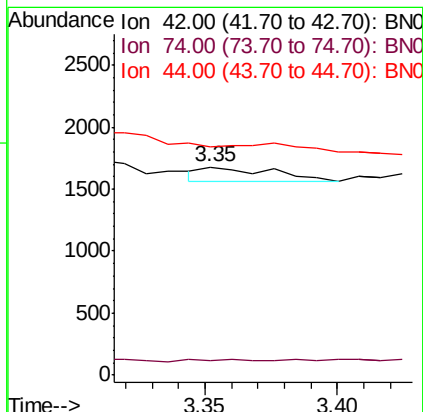
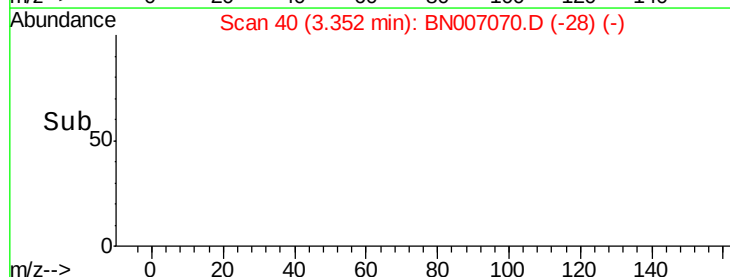
#2

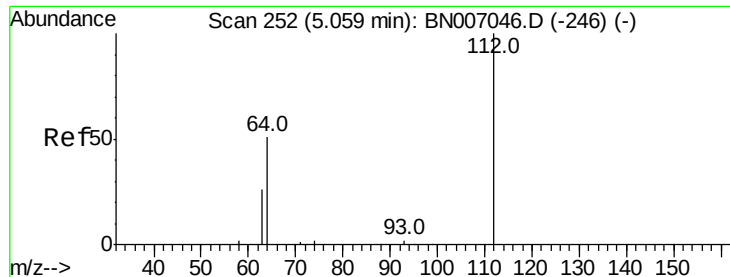
n-Nitrosodimethylamine
Concen: 0.040 ng
RT: 3.35 min Scan# 40
Delta R.T. -0.01 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

Tgt Ion: 42 Resp: 225
Ion Ratio Lower Upper
42 100
74 12.0 110.6 166.0#
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BNC
Ion 74.00 (73.70 to 74.70): BNC
Ion 44.00 (43.70 to 44.70): BNC





#3

2-Fluorophenol

Concen: 0.271 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

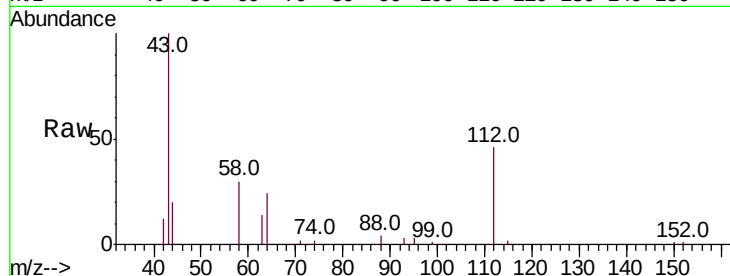
Tot Ion:112 Resp: 5572

Ion Ratio Lower Upper

112 100

64 52.8 42.6 63.8

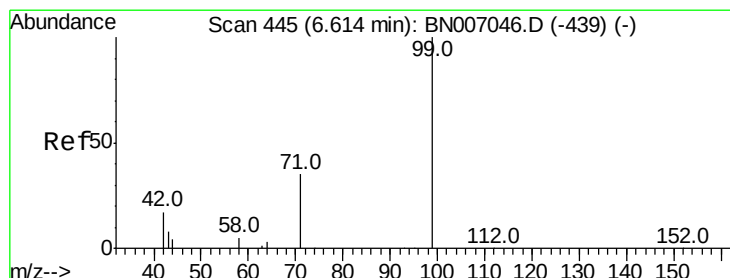
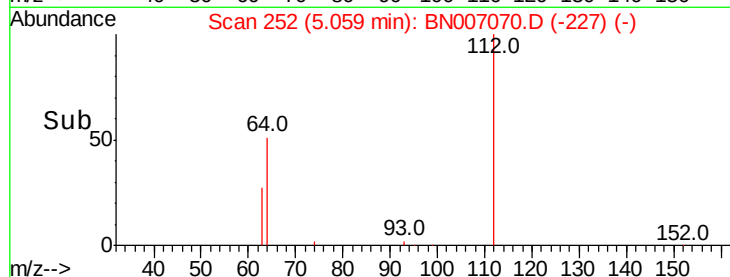
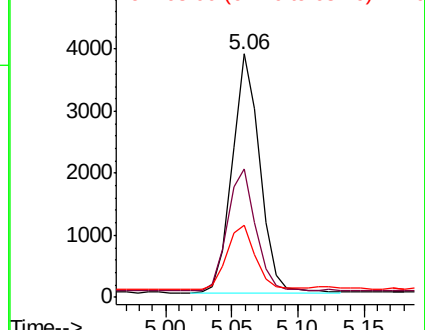
63 27.8 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC



#4

Phenol-d6

Concen: 0.303 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

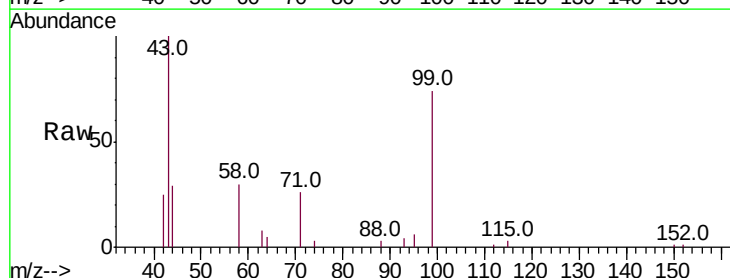
Tgt Ion: 99 Resp: 7707

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

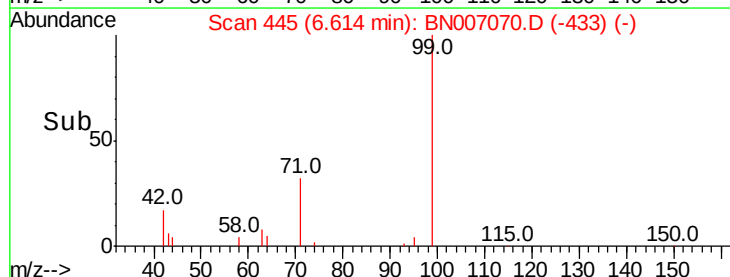
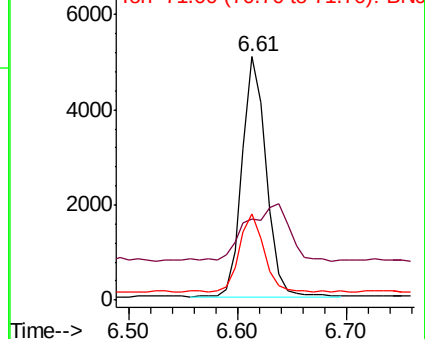
71 33.7 27.0 40.4

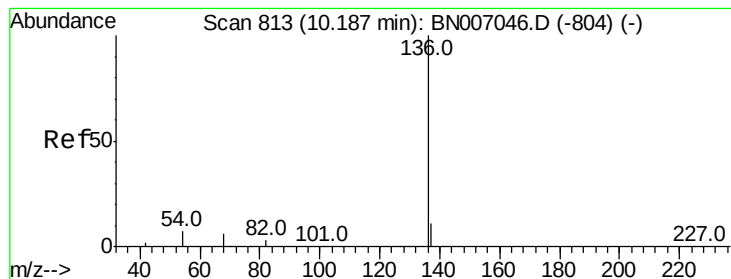


Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 32332

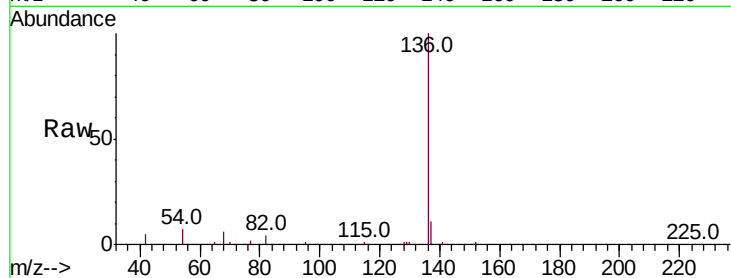
Ion Ratio Lower Upper

136 100

137 11.1 9.4 14.0

54 6.8 6.6 9.8

68 6.2 6.0 9.0

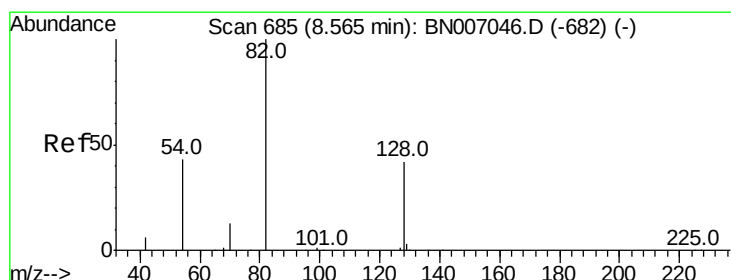
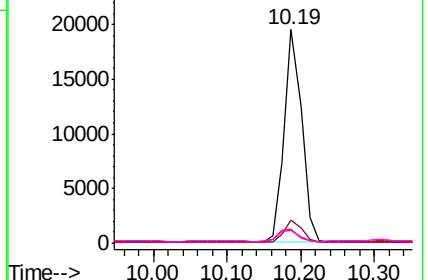
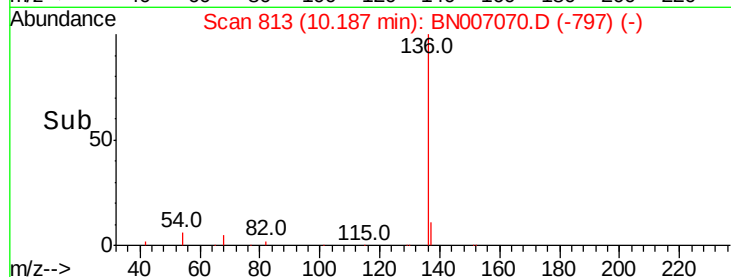


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#7

Nitrobenzene-d5

Concen: 0.225 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

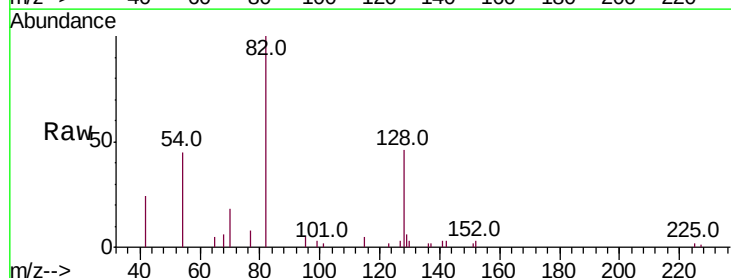
Tgt Ion: 82 Resp: 5874

Ion Ratio Lower Upper

82 100

128 46.0 34.6 51.8

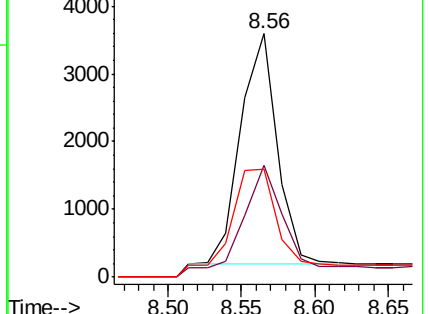
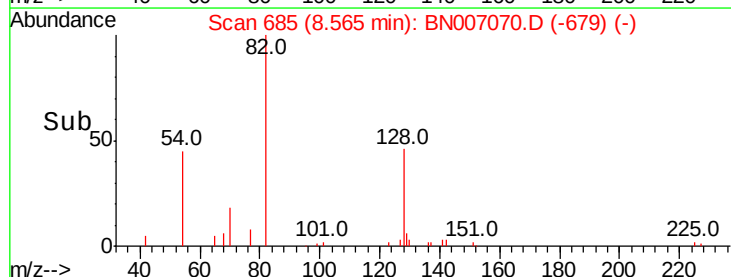
54 44.6 36.2 54.4

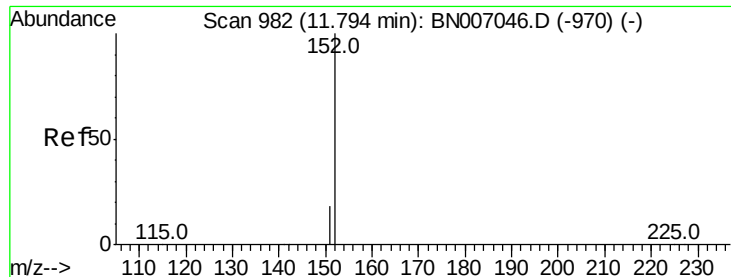


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#10

2-Methylnaphthalene-d10

Concen: 0.201 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

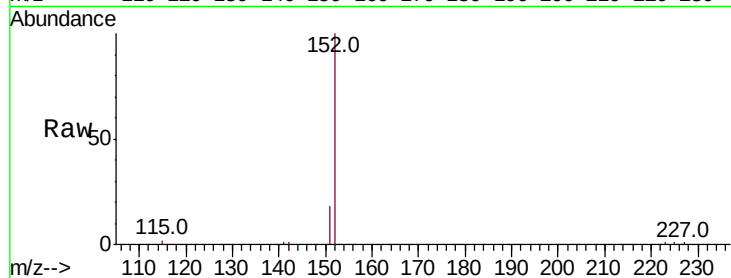
ClientSampleId :

Tot Ion:152 Resp: 12119

Ion Ratio Lower Upper

152 100

151 19.4 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

8000

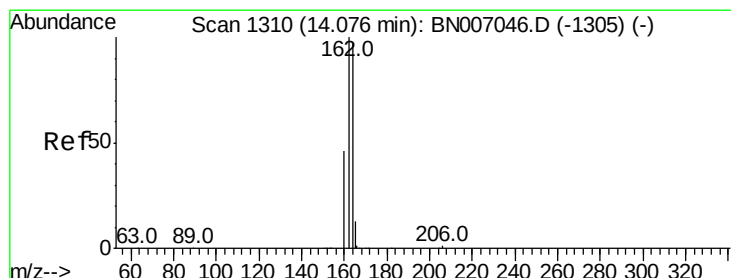
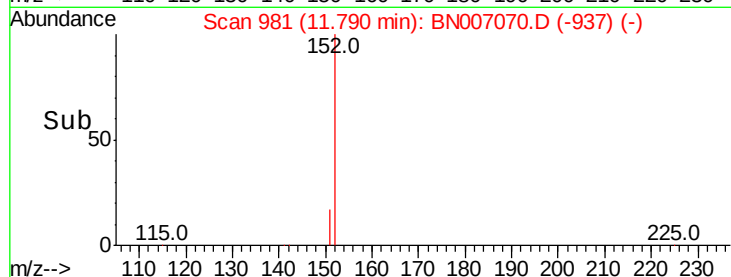
6000

4000

2000

0

Time--> 11.70 11.75 11.80 11.85



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

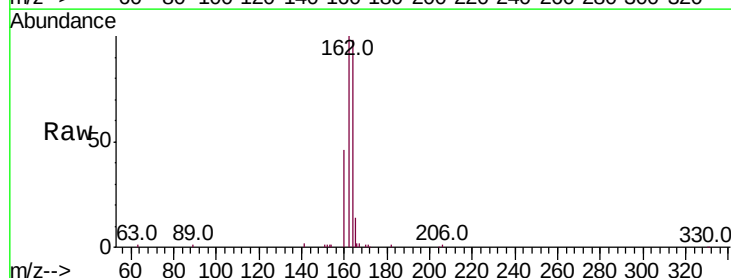
Tgt Ion:164 Resp: 18594

Ion Ratio Lower Upper

164 100

162 102.1 82.2 123.4

160 47.1 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

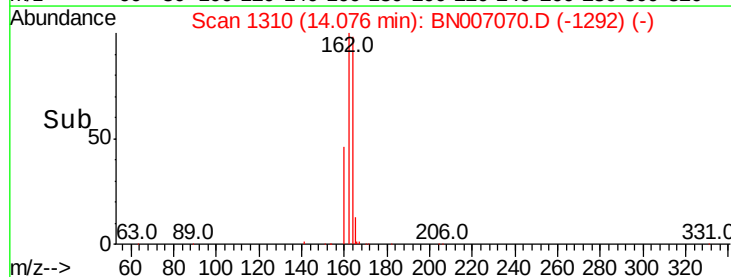
15000

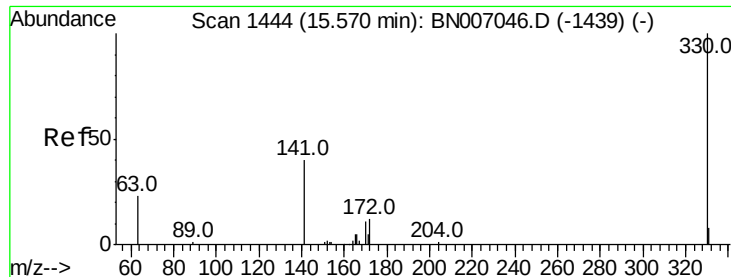
10000

5000

0

Time--> 14.00 14.10

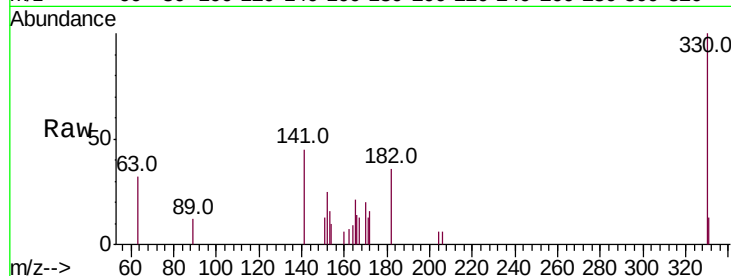




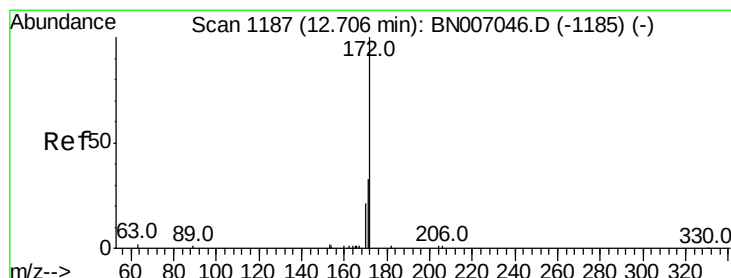
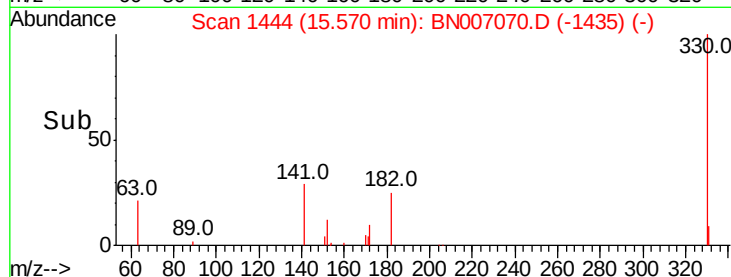
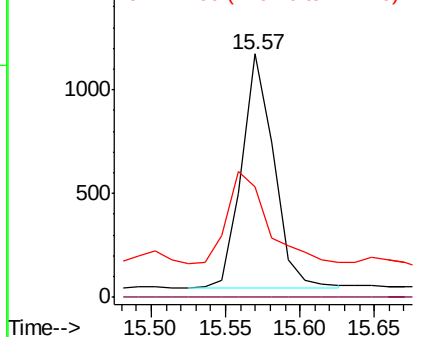
#13
 2,4,6-Tribromophenol
 Concen: 0.168 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 1680
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 49.1 33.6 50.4

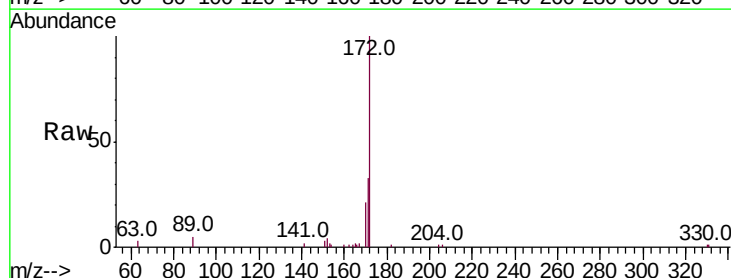


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

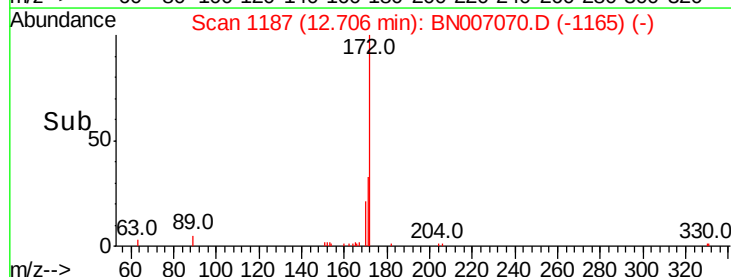
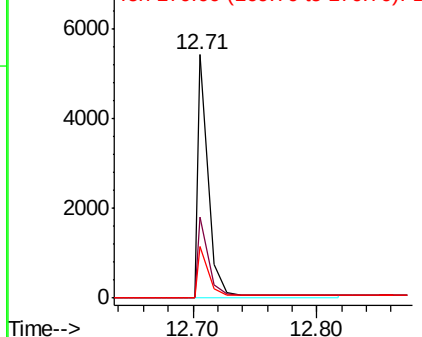


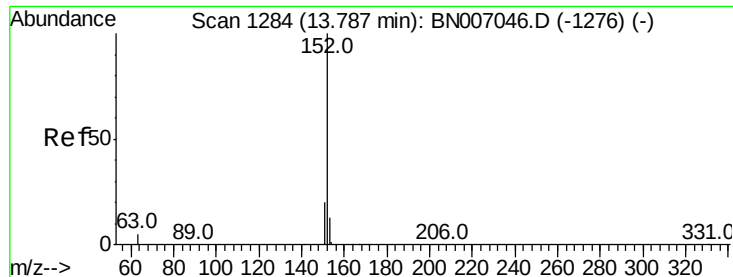
#14
 2-Fluorobiphenyl
 Concen: 0.153 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

Tgt Ion:172 Resp: 4125
 Ion Ratio Lower Upper
 172 100
 171 33.1 26.3 39.5
 170 21.4 17.0 25.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#15

Acenaphthylene

Concen: 0.111 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

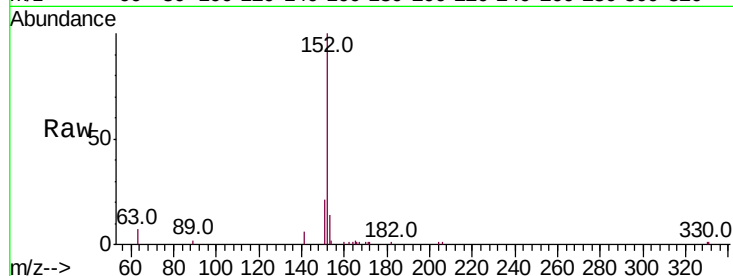
Tot Ion:152 Resp: 10783

Ion Ratio Lower Upper

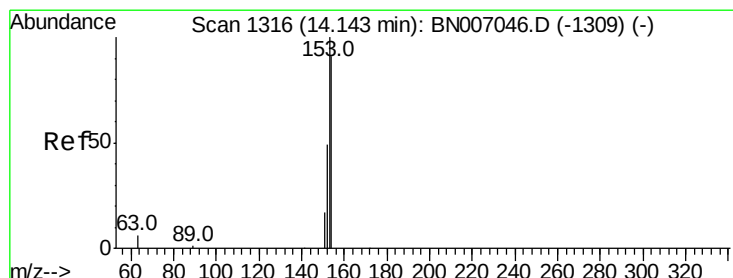
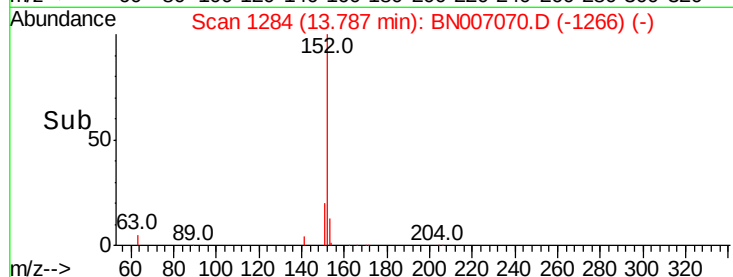
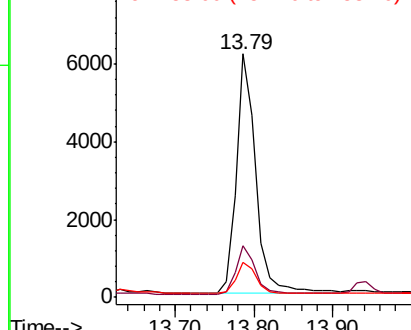
152 100

151 20.0 15.8 23.6

153 13.8 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#16

Acenaphthene

Concen: 0.023 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

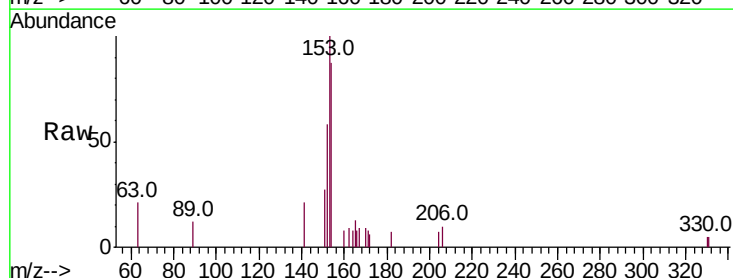
Tgt Ion:154 Resp: 1402

Ion Ratio Lower Upper

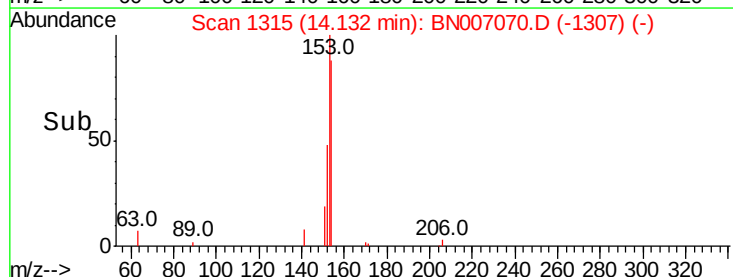
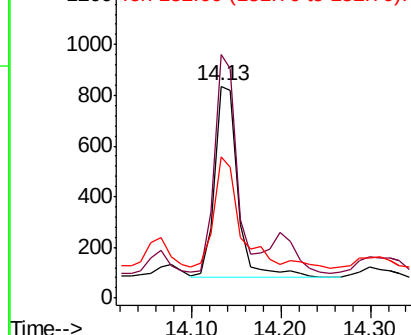
154 100

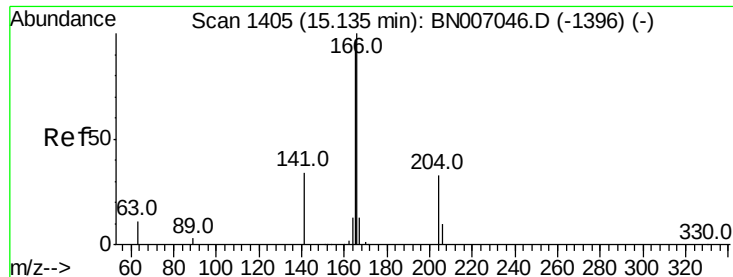
153 108.3 89.5 134.3

152 61.3 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



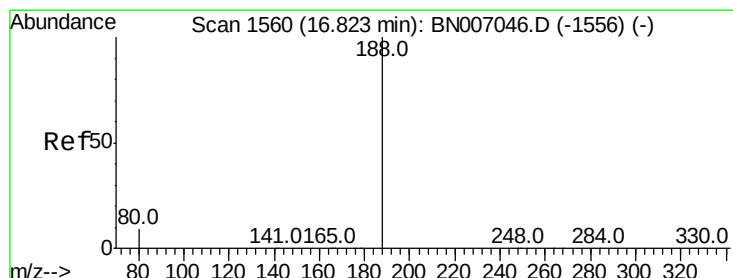
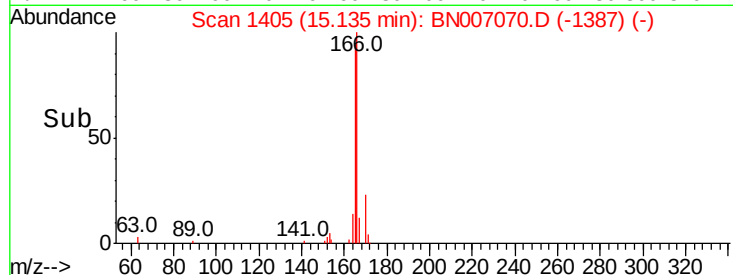
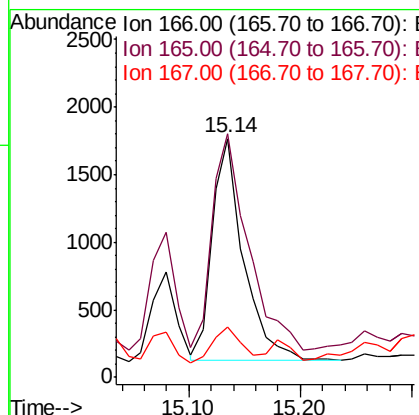
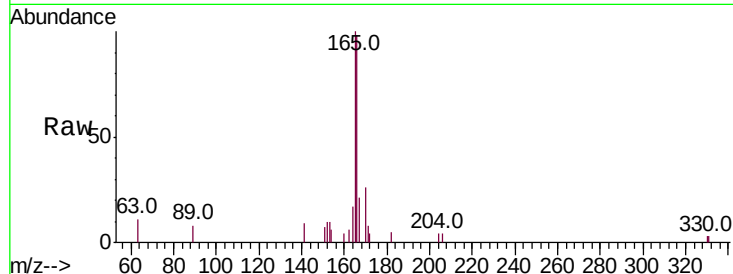


#17
Fluorene
 Concen: 0.035 ng
 RT: 15.14 min Scan# 1405
 Delta R.T. -0.00 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

Instrument :
 BNA_N
 ClientSampled :

Tot Ion:166 Resp: 3218

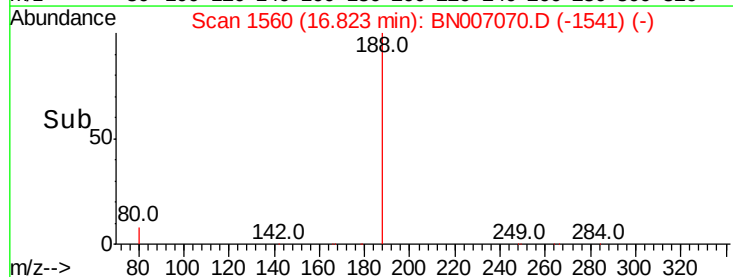
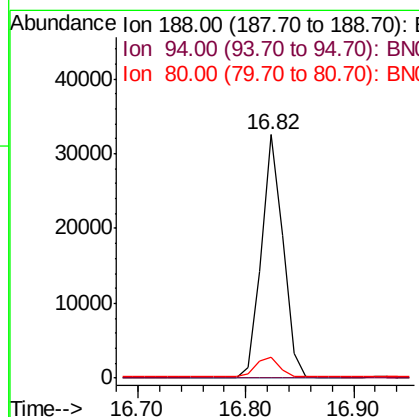
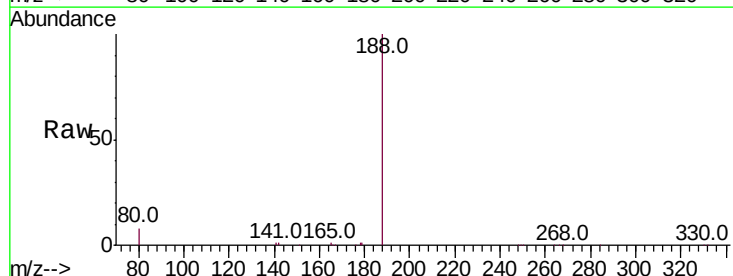
Ion	Ratio	Lower	Upper
166	100		
165	110.5	77.9	116.9
167	15.1	10.9	16.3

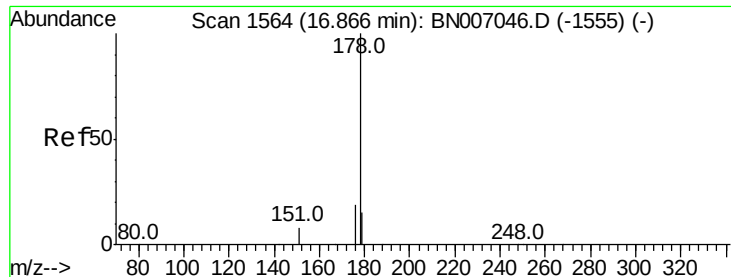


#18
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

Tgt Ion:188 Resp: 44914

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	7.8	11.6





#22

Phenanthrene

Concen: 0.526 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

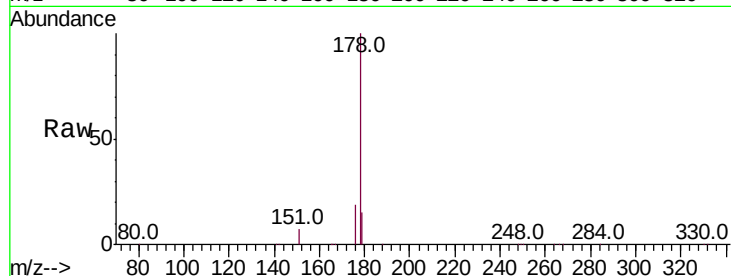
Tot Ion:178 Resp: 70806

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

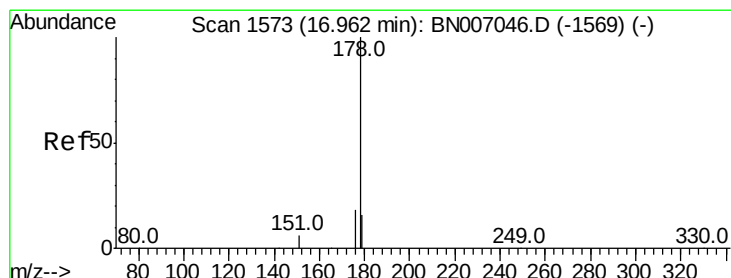
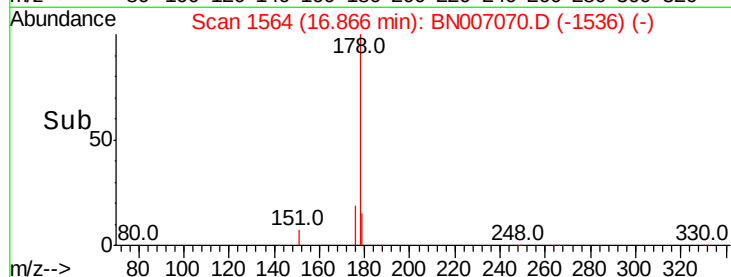
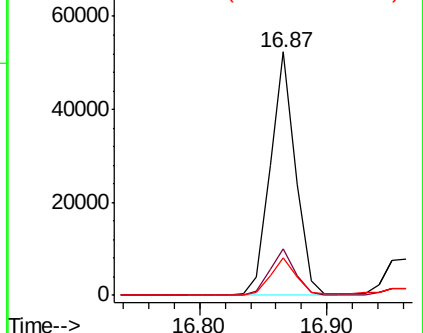
179 15.5 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.101 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

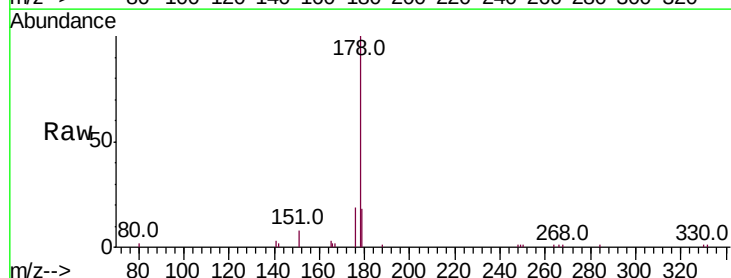
Tgt Ion:178 Resp: 12387

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

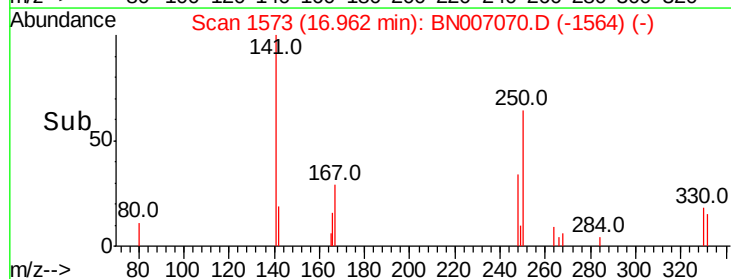
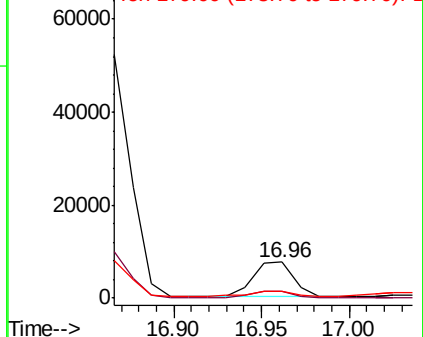
179 18.6 12.5 18.7

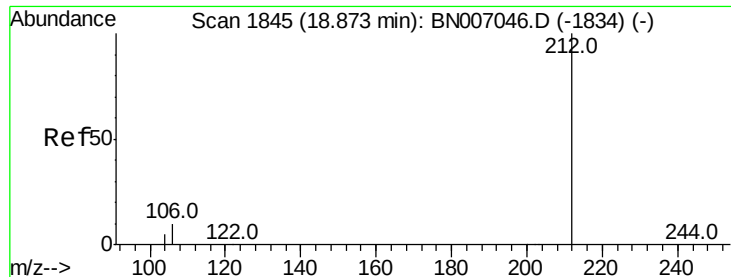


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.163 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

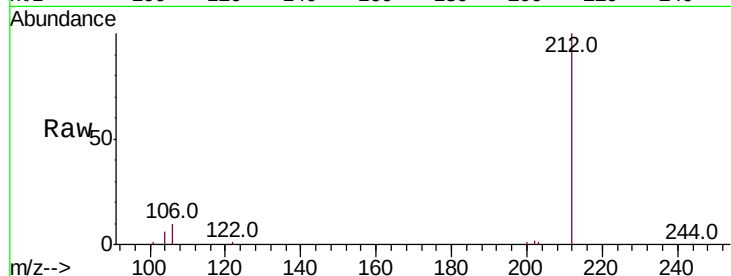
Tot Ion:212 Resp: 25921

Ion Ratio Lower Upper

212 100

106 10.3 8.2 12.2

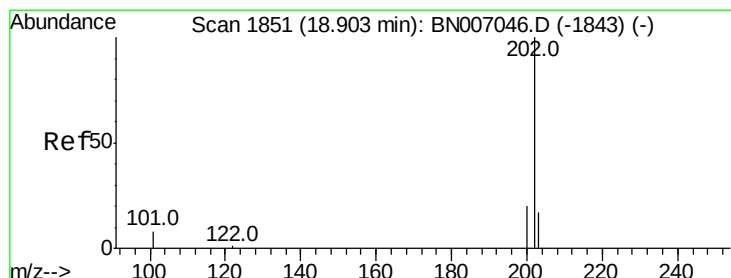
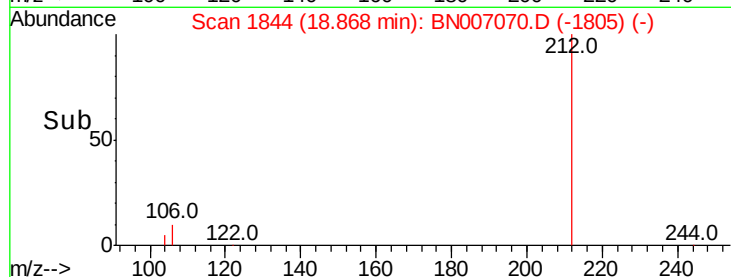
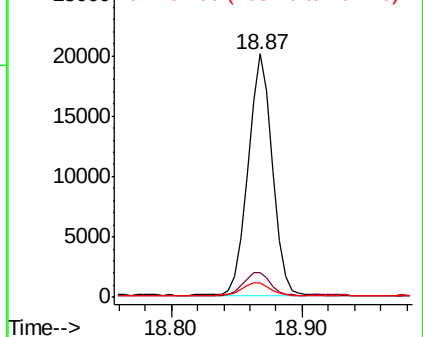
104 5.9 4.5 6.7



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: 0.624 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

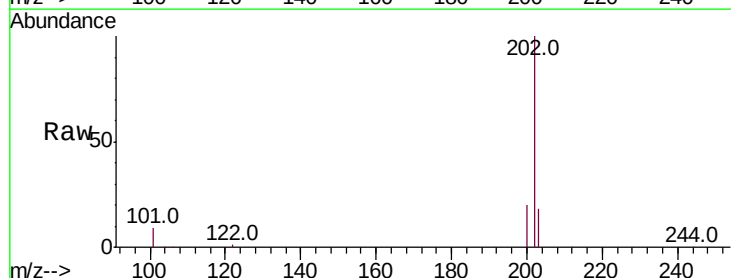
Tgt Ion:202 Resp: 107455

Ion Ratio Lower Upper

202 100

101 8.7 7.0 10.4

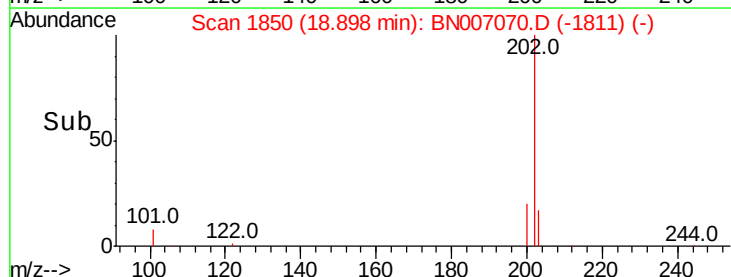
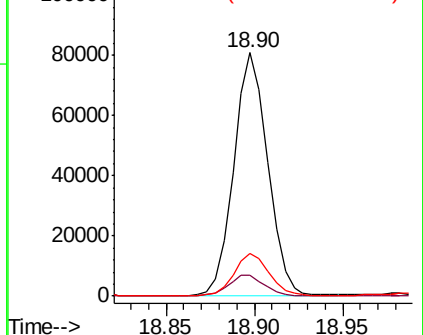
203 17.6 13.8 20.8

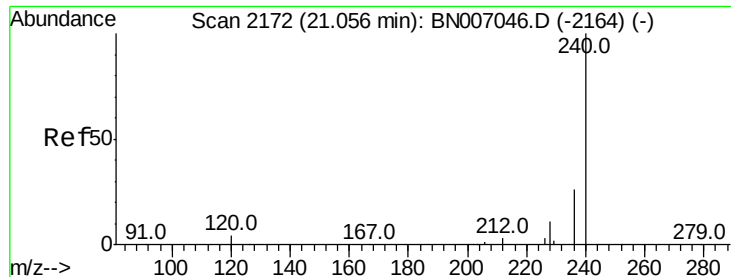


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

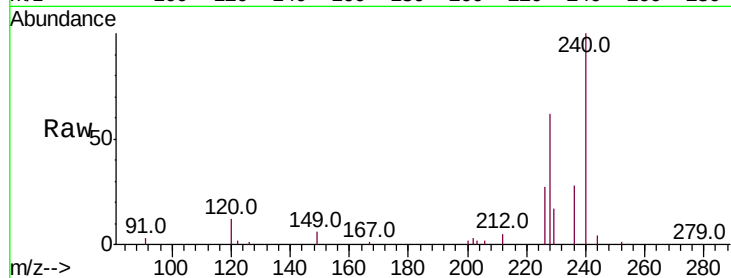
Tot Ion:240 Resp: 47348

Ion Ratio Lower Upper

240 100

120 11.9 4.0 6.0#

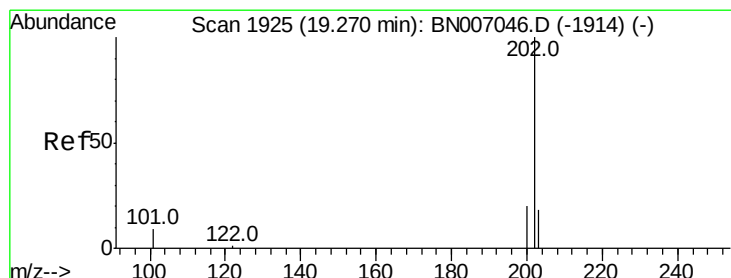
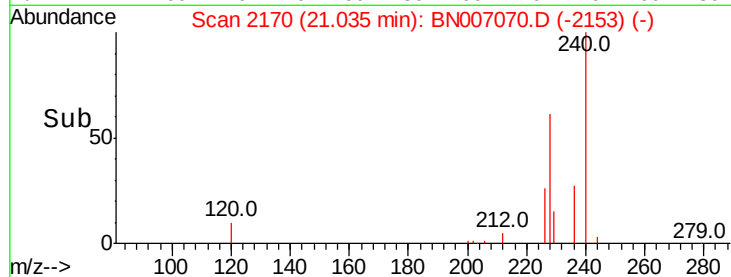
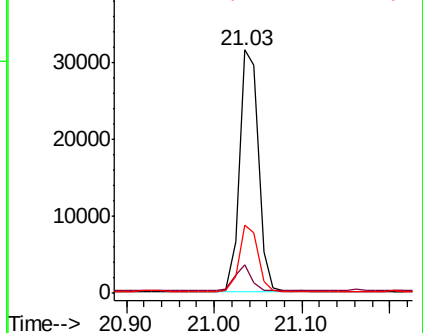
236 28.2 21.3 31.9



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

Pyrene

Concen: 0.790 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

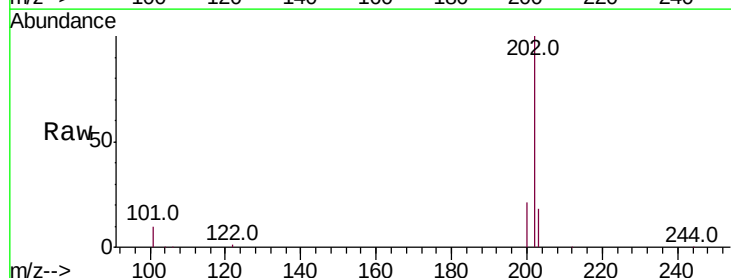
Tgt Ion:202 Resp: 131220

Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

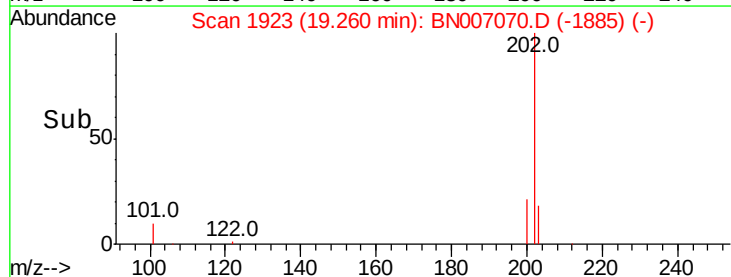
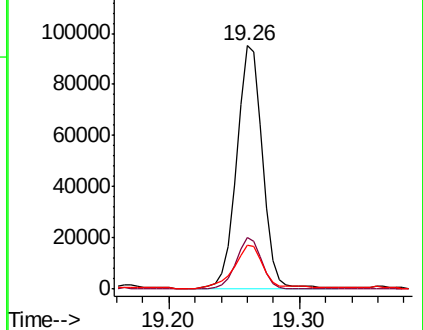
203 19.5 14.0 21.0

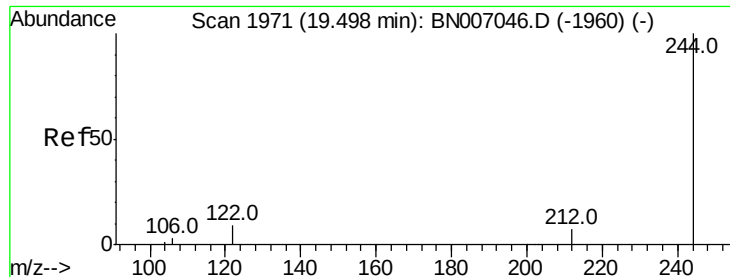


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.151 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

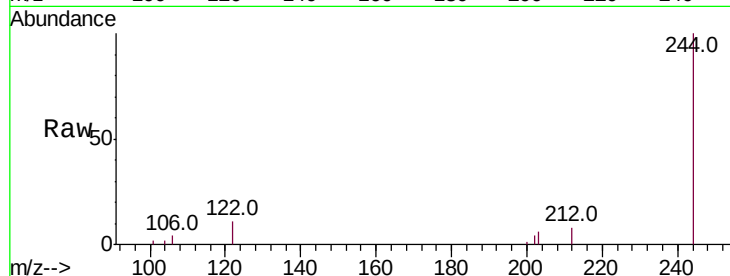
Tot Ion:244 Resp: 19423

Ion Ratio Lower Upper

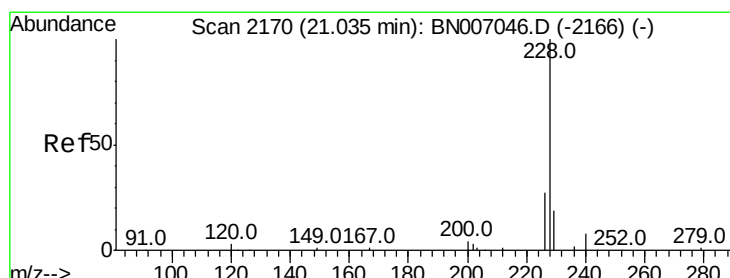
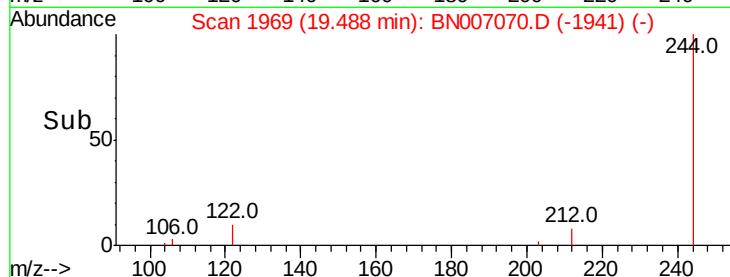
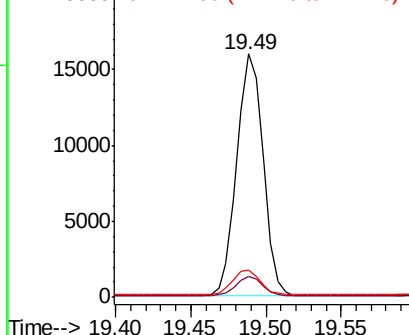
244 100

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: 0.400 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

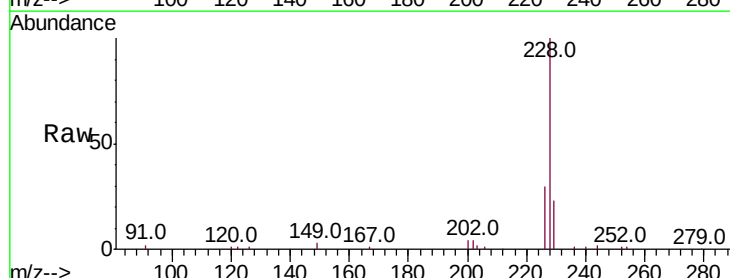
Tgt Ion:228 Resp: 69230

Ion Ratio Lower Upper

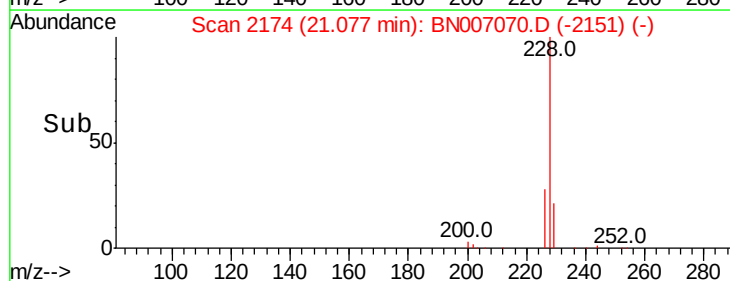
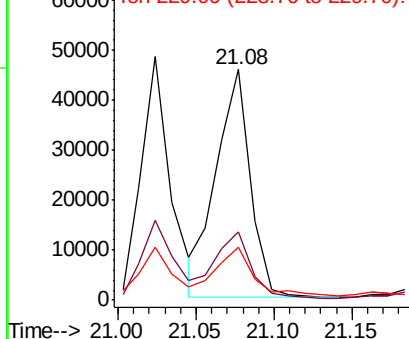
228 100

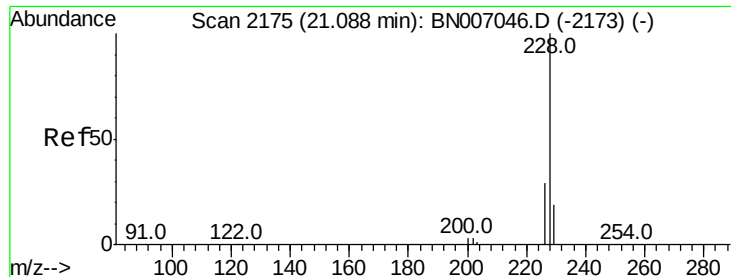
226 29.7 21.8 32.6

229 23.1 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: 0.411 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA_N

ClientSampleId :

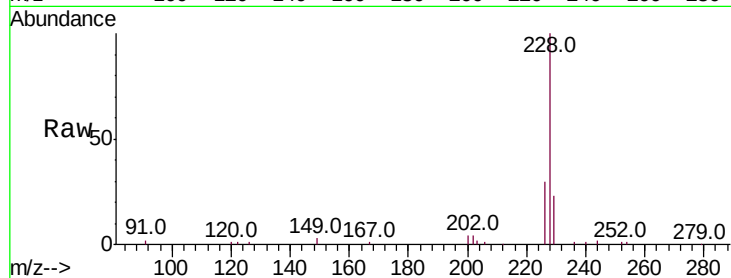
Tot Ion:228 Resp: 69184

Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.6

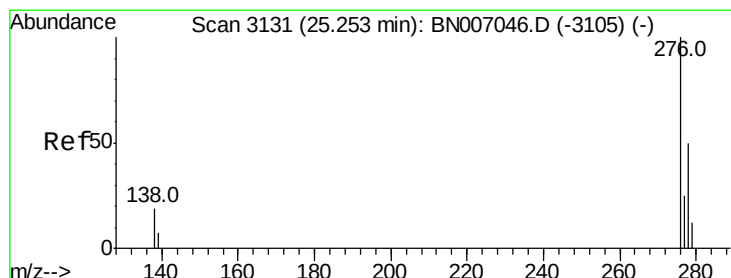
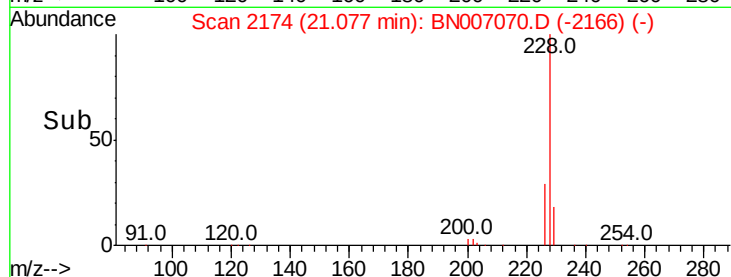
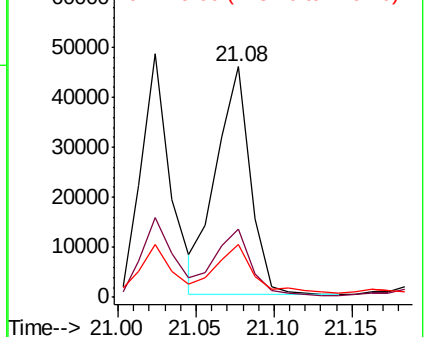
229 23.1 15.7 23.5



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: 0.188 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

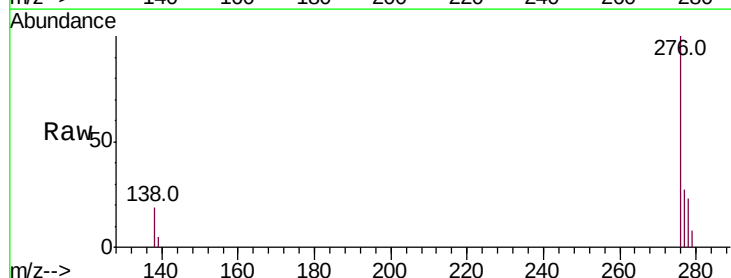
Tgt Ion:276 Resp: 34905

Ion Ratio Lower Upper

276 100

138 17.8 16.0 24.0

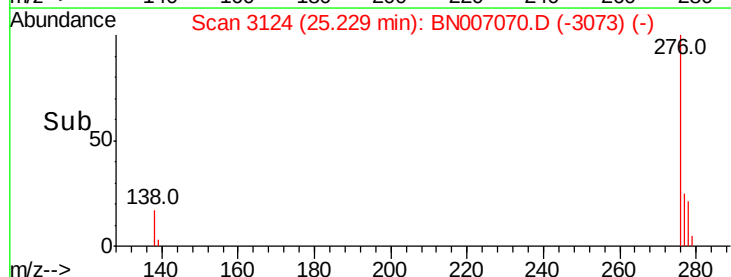
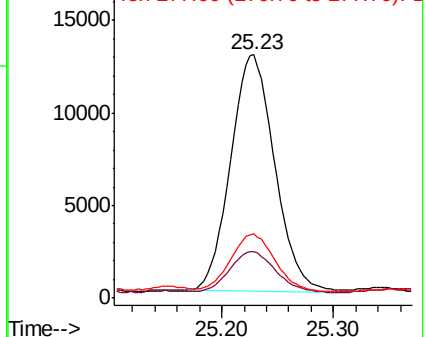
277 24.5 19.9 29.9

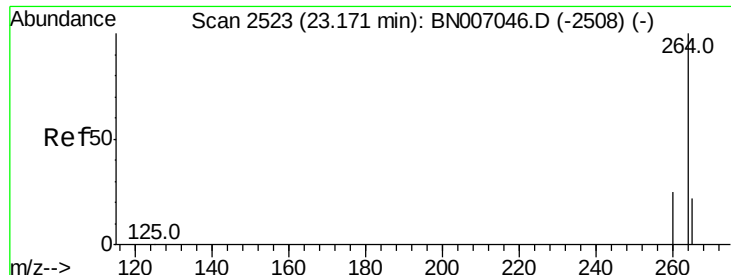


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

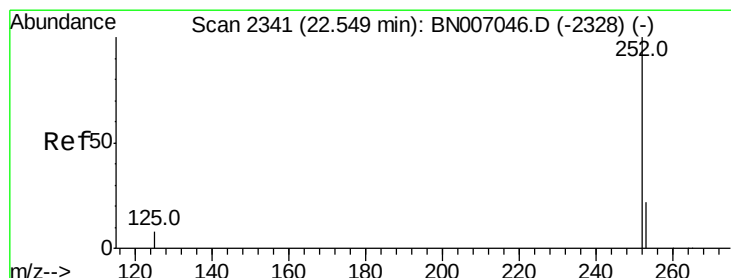
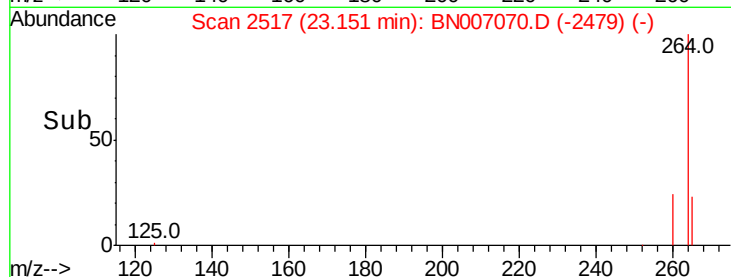
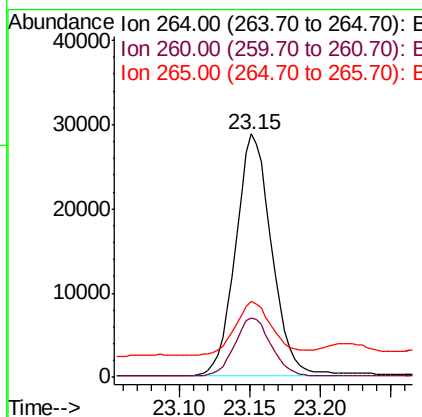
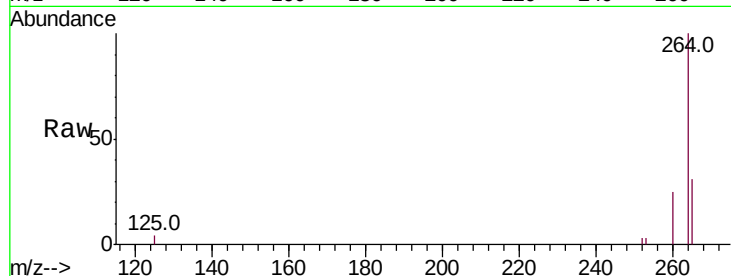




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

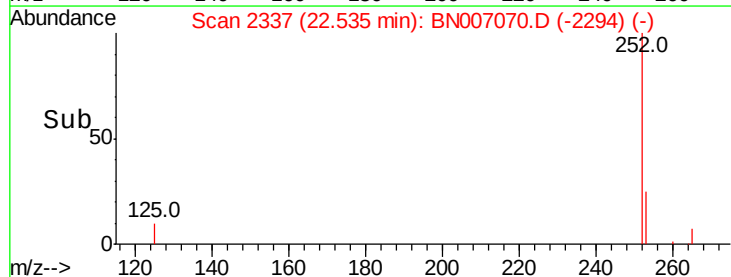
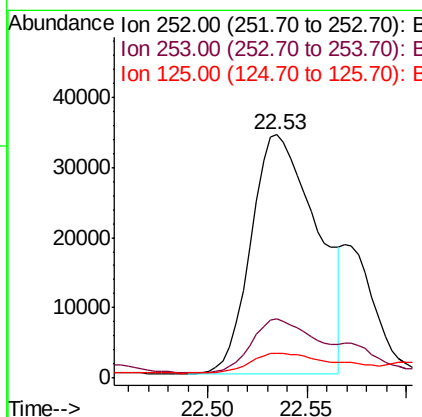
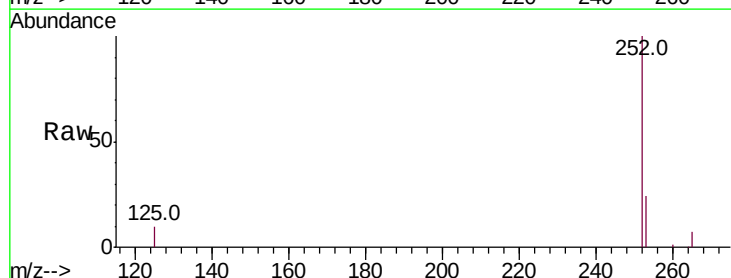
Instrument :
 BNA_N
 ClientSampleId :

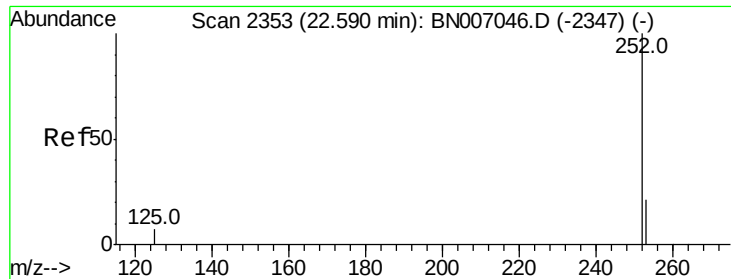
Tot Ion:264 Resp: 51079
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.8 29.8
 265 31.2 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 0.447 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007070.D
 Acq: 11 Aug 2019 04:23

Tgt Ion:252 Resp: 78376
 Ion Ratio Lower Upper
 252 100
 253 24.2 18.2 27.2
 125 10.2 7.4 11.0

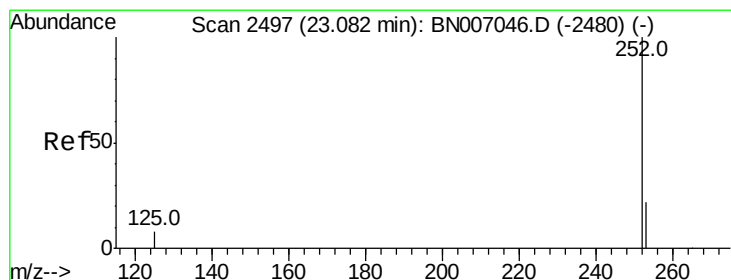
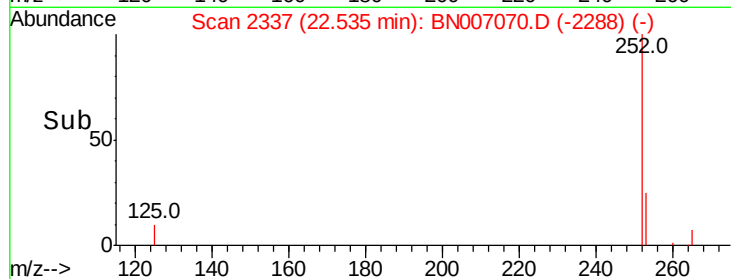
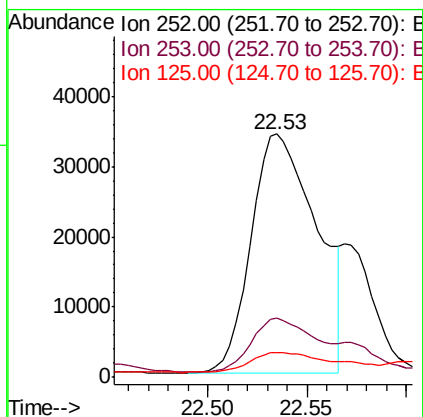
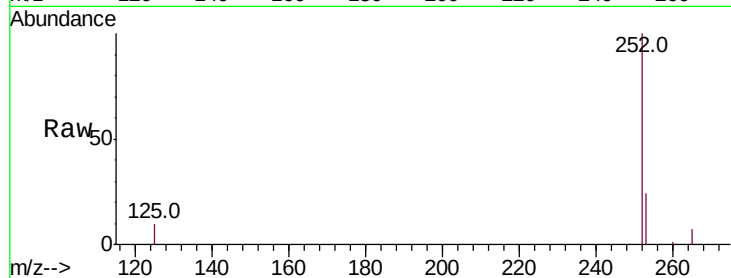




#34
Benzo(k)fluoranthene
Concen: 0.453 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.05 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

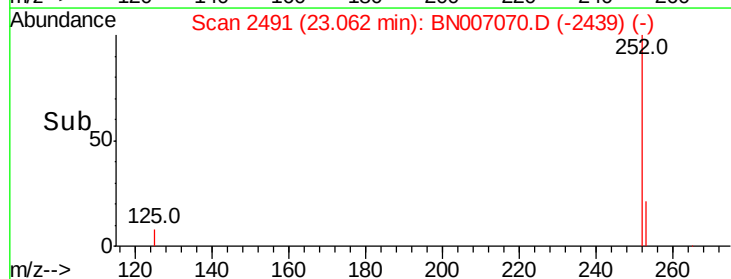
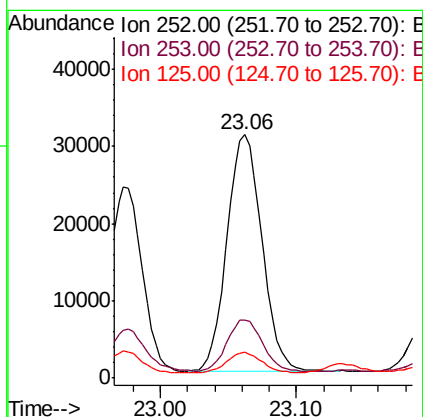
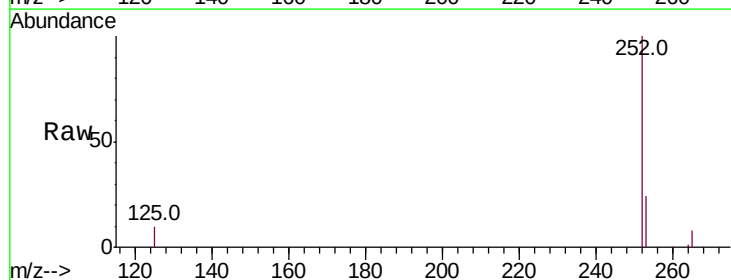
Instrument :
BNA_N
ClientSampleId :

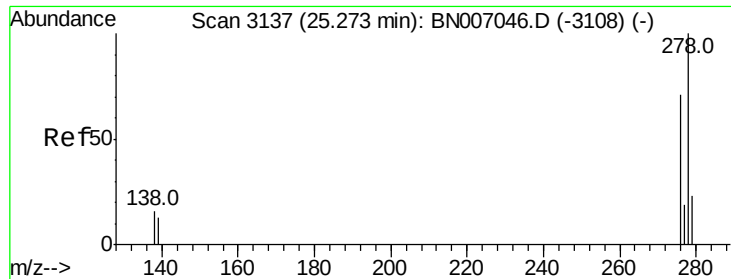
Tot Ion:252 Resp: 78376
Ion Ratio Lower Upper
252 100
253 24.2 18.1 27.1
125 10.2 7.4 11.0



#35
Benzo(a)pyrene
Concen: 0.344 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

Tgt Ion:252 Resp: 54554
Ion Ratio Lower Upper
252 100
253 24.0 18.5 27.7
125 10.5 8.2 12.4



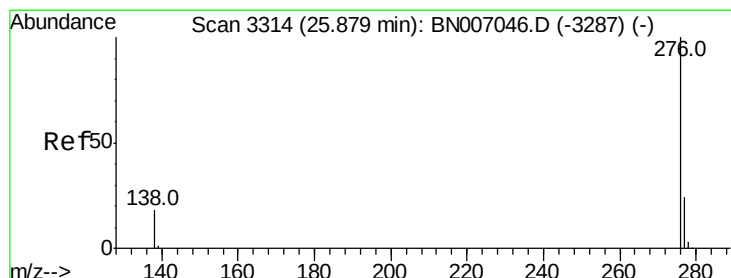
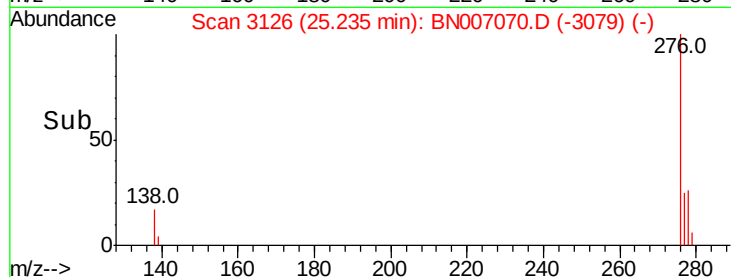
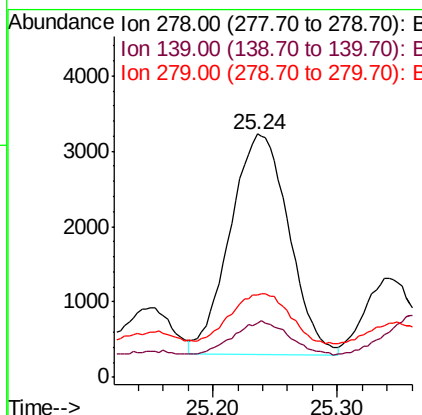
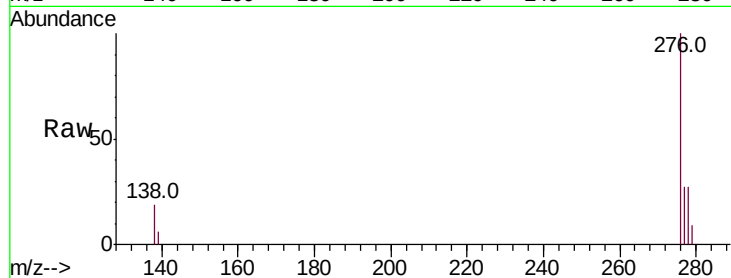


#36
Dibenzo(a,h)anthracene
Concen: 0.060 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.04 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 9533

Ion	Ratio	Lower	Upper
278	100		
139	22.3	11.3	16.9#
279	33.7	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.232 ng
RT: 25.85 min Scan# 3307
Delta R.T. -0.02 min
Lab File: BN007070.D
Acq: 11 Aug 2019 04:23

Tgt Ion:276 Resp: 37740

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.8	29.8
138	19.2	14.6	22.0

