

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070317\
 Data File : BF096469.D
 Acq On : 4 Jul 2017 5:31
 Operator : SJ/MA
 Sample : I4029-01 25X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 04 07:44:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 03 01:43:12 2017
 Response via : Initial Calibration

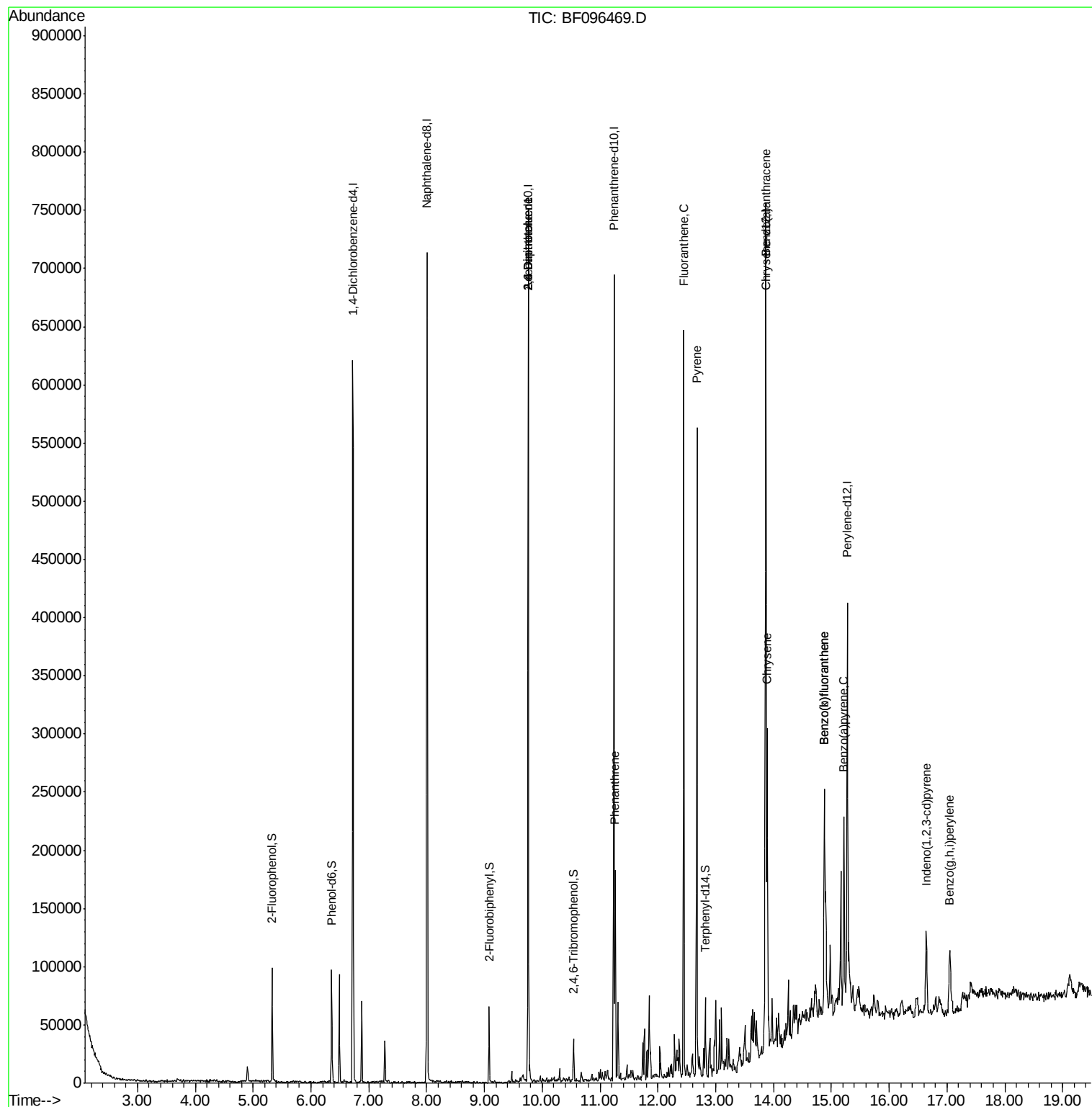
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	91310	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	332862	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	137800	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	239603	20.00	ng	-0.01
75) Chrysene-d12	13.87	240	193852	20.00	ng	-0.01
86) Perylene-d12	15.28	264	124040	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	25576	4.13	ng	-0.02
7) Phenol-d6	6.36	99	31765	4.18	ng	-0.02
23) Nitrobenzene-d5	7.27	82	10951	1.98	ng	-0.03
41) 2,4,6-Tribromophenol	10.54	330	3218	2.99	ng	-0.02
44) 2-Fluorobiphenyl	9.08	172	21227	2.63	ng	-0.02
78) Terphenyl-d14	12.82	244	18476	2.04	ng	-0.01
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.76	165	17725	7.79	ng	# 33
56) 2,4-Dinitrotoluene	9.76	165	17725	6.15	ng	# 33
70) Phenanthrene	11.26	178	63222	4.88	ng	97
74) Fluoranthene	12.44	202	239426	18.85	ng	96
77) Pyrene	12.67	202	204428	13.14	ng	99
80) Benzo(a)anthracene	13.86	228	105851	9.43	ng	98
82) Chrysene	13.89	228	89465	7.61	ng	97
85) Indeno(1,2,3-cd)pyrene	16.64	276	41856	4.51	ng	98
87) Benzo(b)fluoranthene	14.88	252	125832	16.19	ng	# 96
88) Benzo(k)fluoranthene	14.88	252	125832	18.10	ng	98
89) Benzo(a)pyrene	15.22	252	72754	10.48	ng	96
91) Benzo(a,h,i)perylene	17.05	276	42076	7.44	ng	96

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

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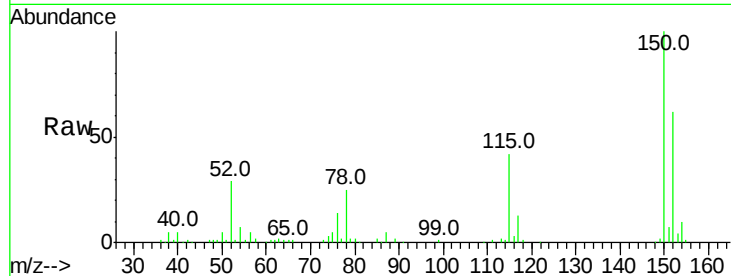


#1

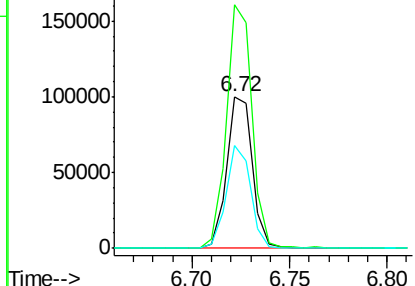
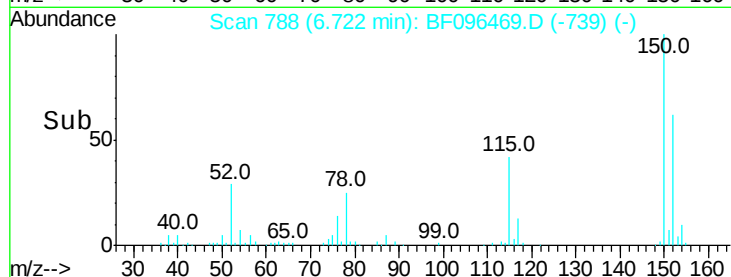
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.01 min
 Lab File: BF096469.D
 Acq: 4 Jul 2017 5:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 91310
 Ion Ratio Lower Upper
 152 100
 150 160.4 126.2 189.2
 115 67.9 52.2 78.2



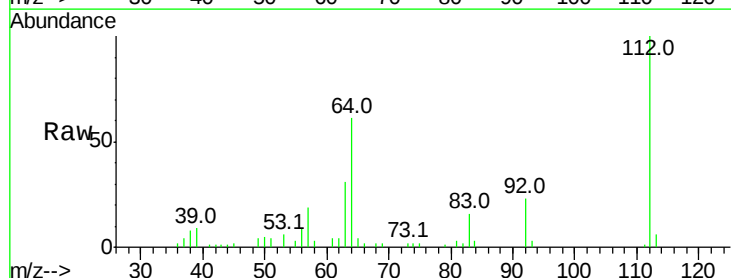
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



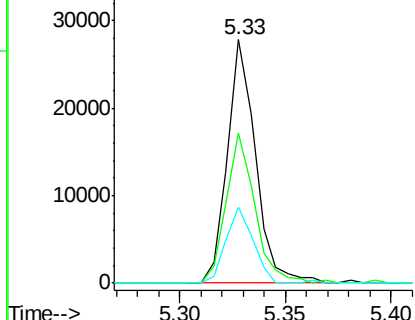
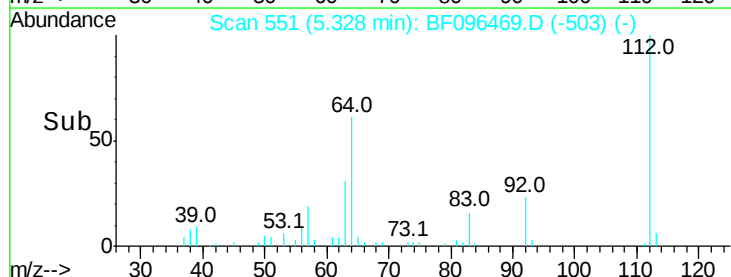
#5

2-Fluorophenol
 Concen: 4.13 ng
 RT: 5.33 min Scan# 551
 Delta R.T. -0.02 min
 Lab File: BF096469.D
 Acq: 4 Jul 2017 5:31

Tgt Ion:112 Resp: 25576
 Ion Ratio Lower Upper
 112 100
 64 61.5 46.0 69.0
 63 31.3 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.18 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

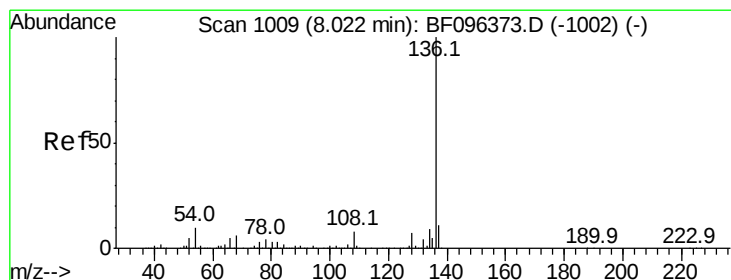
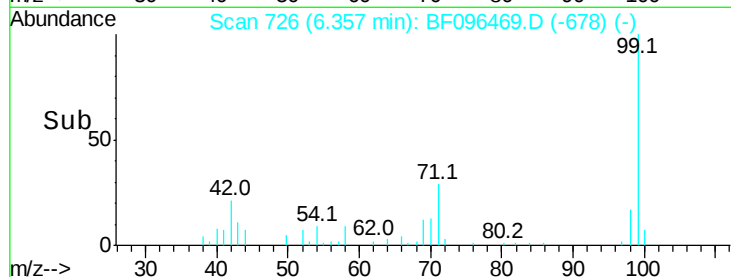
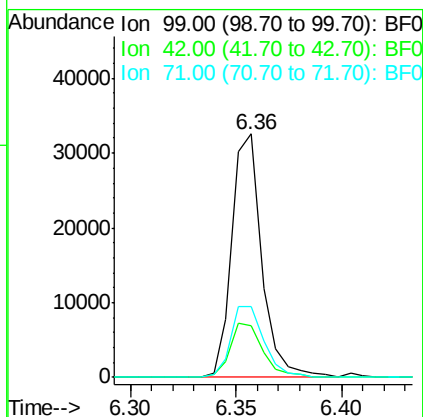
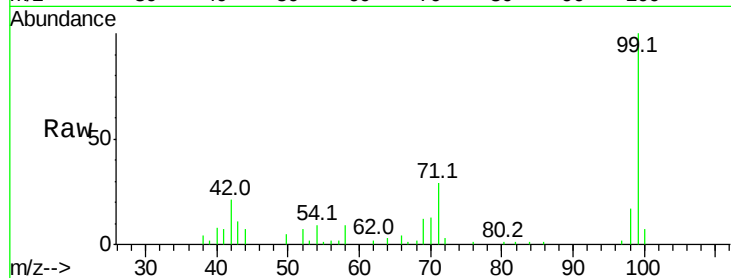
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 31765

Ion	Ratio	Lower	Upper
99	100		
42	21.0	13.5	20.3#
71	29.0	24.5	36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 1006

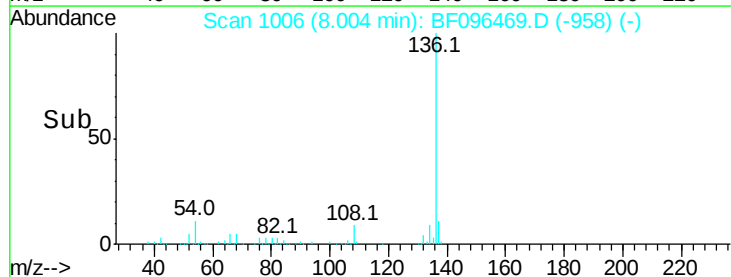
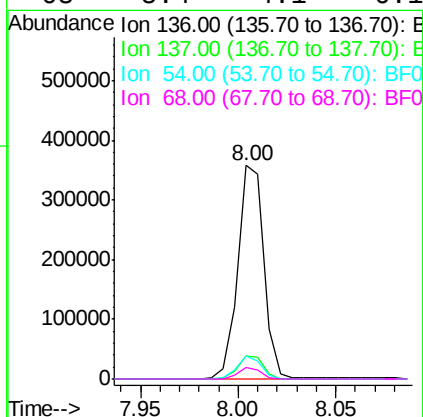
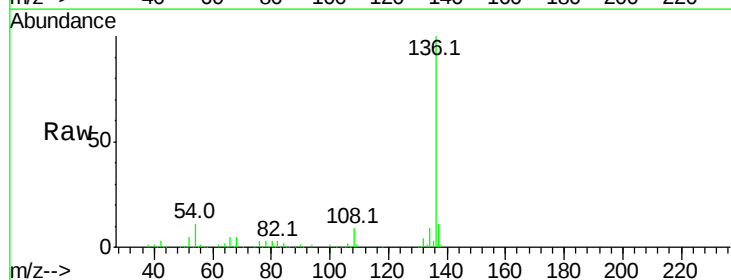
Delta R.T. -0.02 min

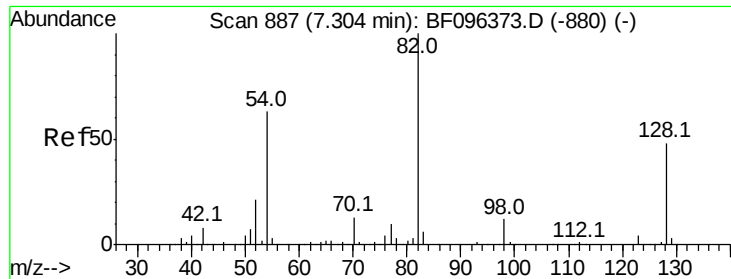
Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Tgt Ion: 136 Resp: 332862

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	10.8	4.9	7.3#
68	5.4	4.1	6.1

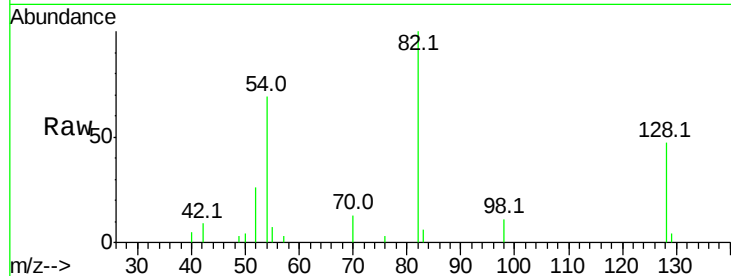




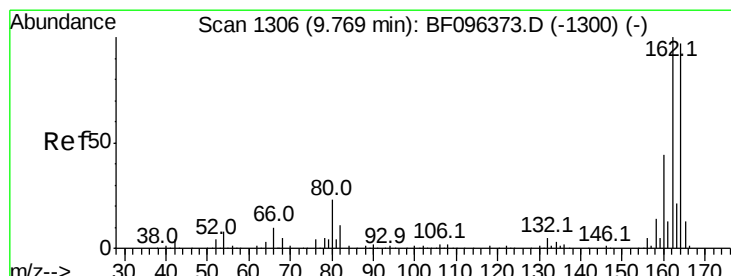
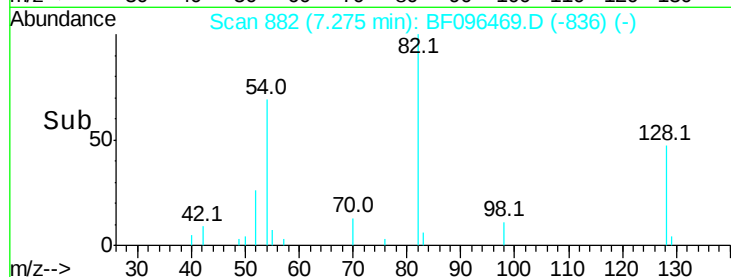
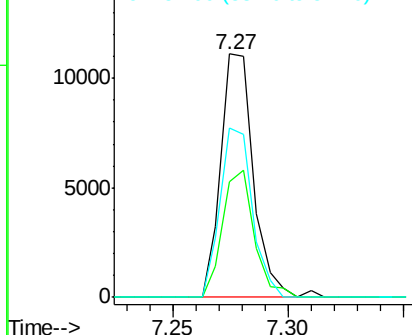
#23
Nitrobenzene-d5
Concen: 1.98 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.03 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 10951
Ion Ratio Lower Upper
82 100
128 47.4 34.0 51.0
54 69.4 42.2 63.2#

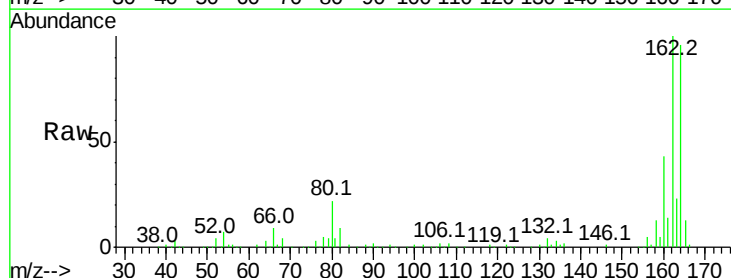


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

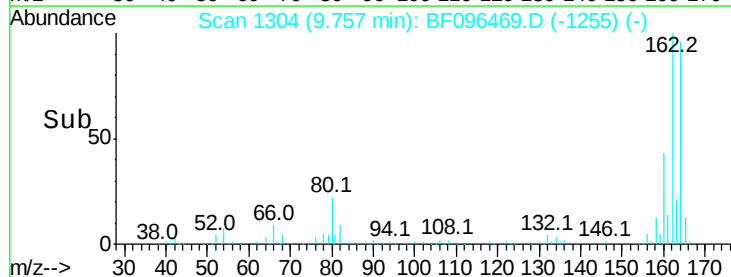
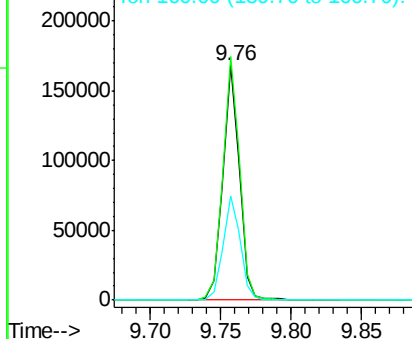


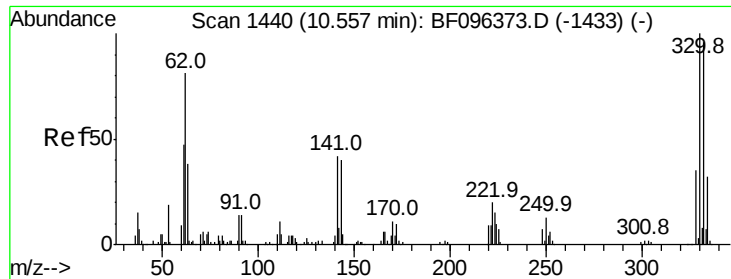
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Tgt Ion:164 Resp: 137800
Ion Ratio Lower Upper
164 100
162 103.8 82.6 123.8
160 44.2 36.2 54.2



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

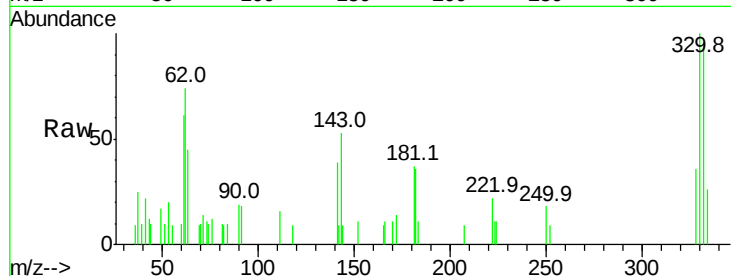




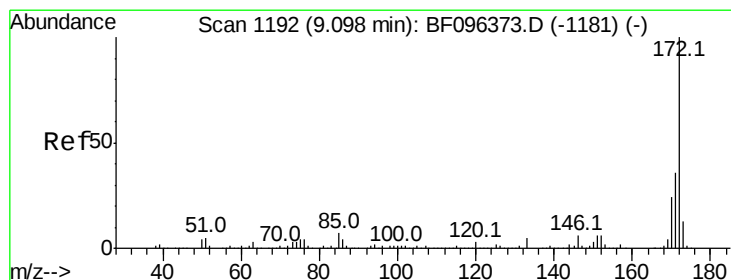
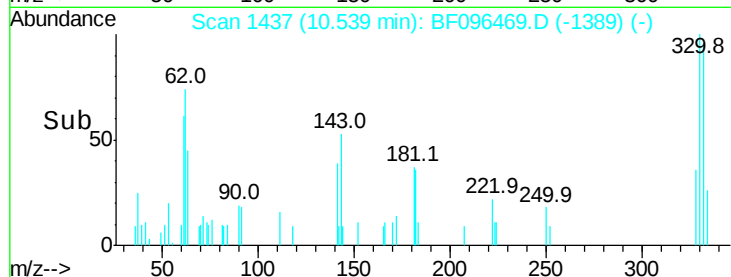
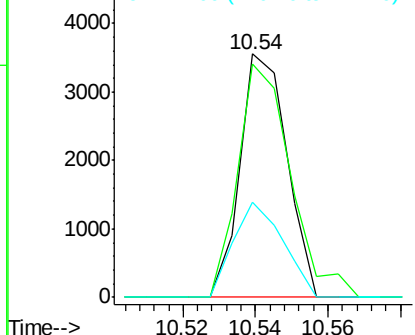
#41
 2,4,6-Tribromophenol
 Concen: 2.99 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.02 min
 Lab File: BF096469.D
 Acq: 4 Jul 2017 5:31

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 3218
 Ion Ratio Lower Upper
 330 100
 332 107.8 76.6 115.0
 141 41.1 31.4 47.2

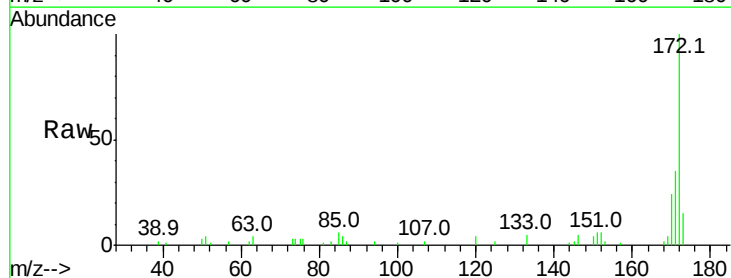


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

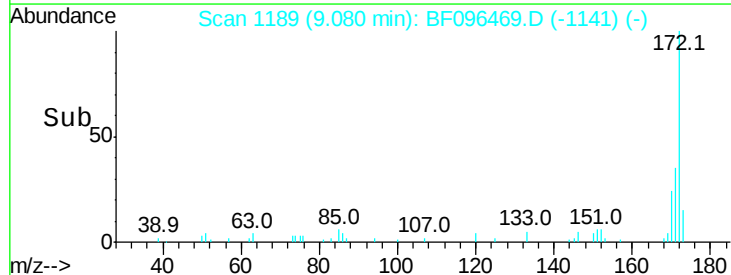
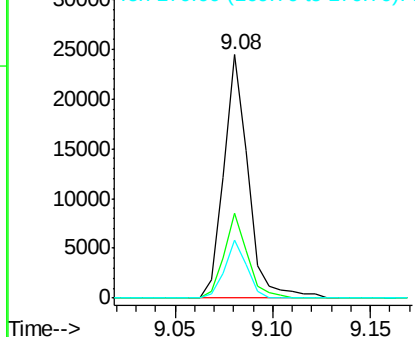


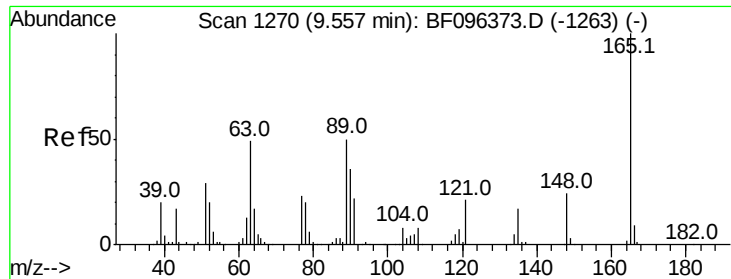
#44
 2-Fluorobiphenyl
 Concen: 2.63 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.02 min
 Lab File: BF096469.D
 Acq: 4 Jul 2017 5:31

Tgt Ion:172 Resp: 21227
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 24.1 19.8 29.8



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

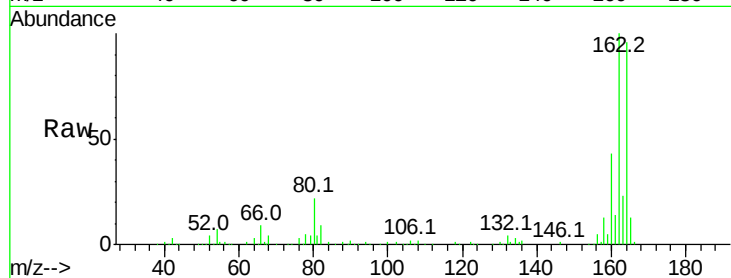




#50
2,6-Dinitrotoluene
Concen: 7.79 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.20 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Instrument :
BNA_F
ClientSampleId :

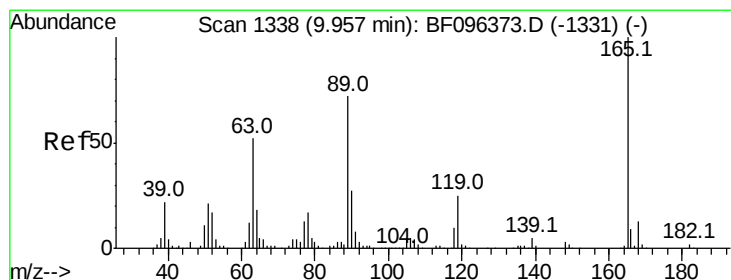
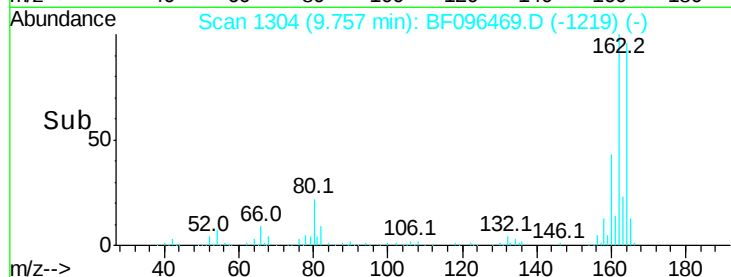
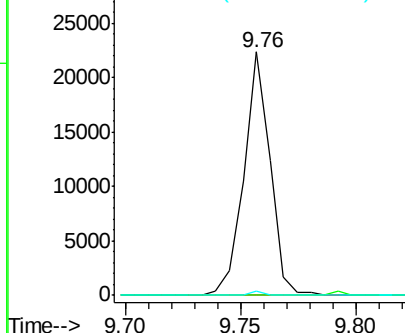
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	2.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56
2,4-Dinitrotoluene
Concen: 6.15 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.20 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

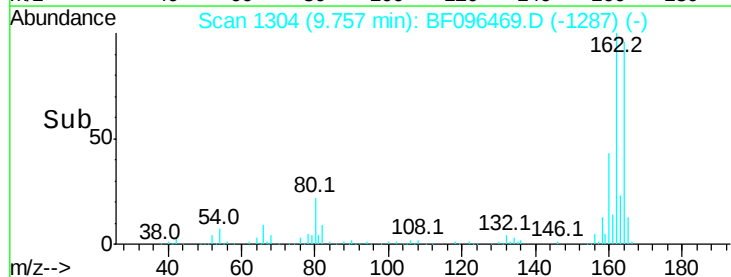
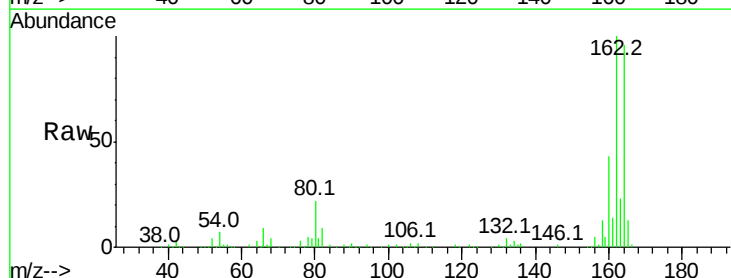
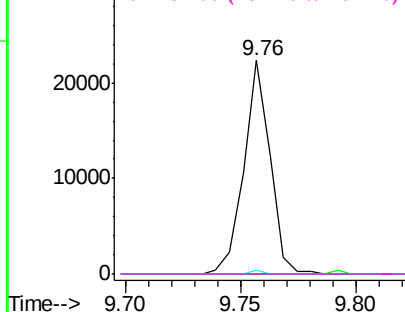
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	25.4	38.0#
89	2.0	46.4	69.6#
182	0.0	1.8	2.6#

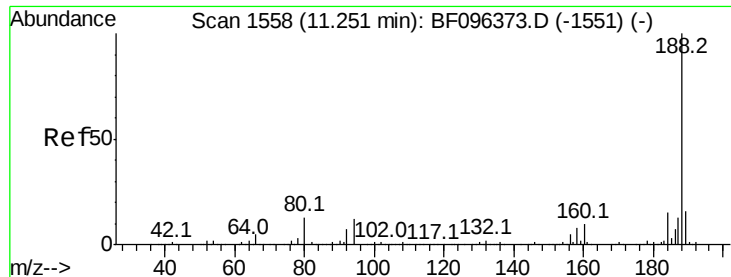
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

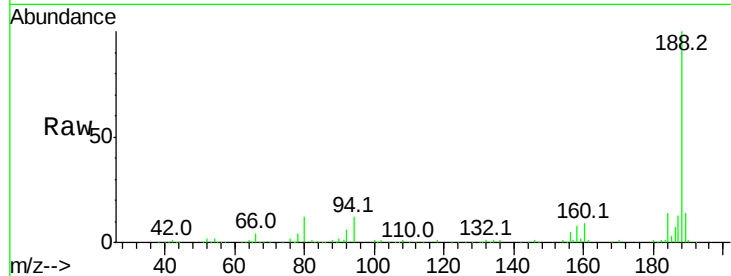




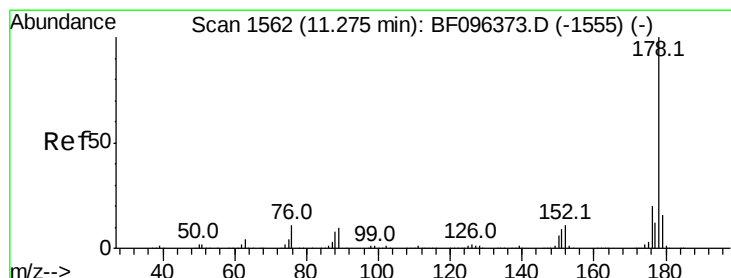
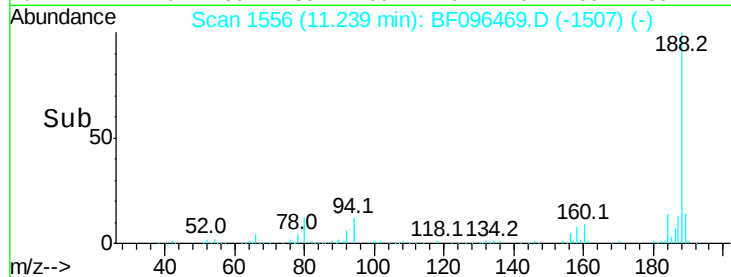
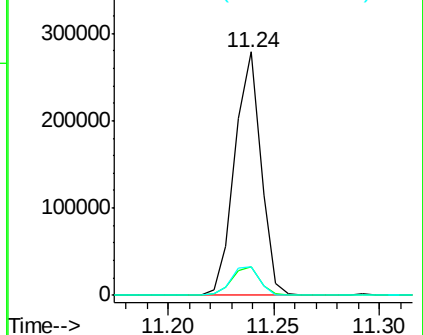
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 239603
Ion Ratio Lower Upper
188 100
94 11.8 9.4 14.2
80 11.9 10.2 15.2

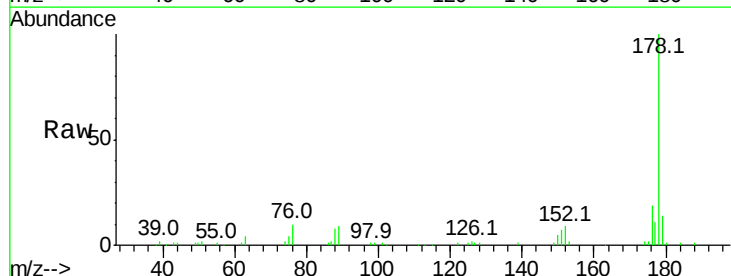


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

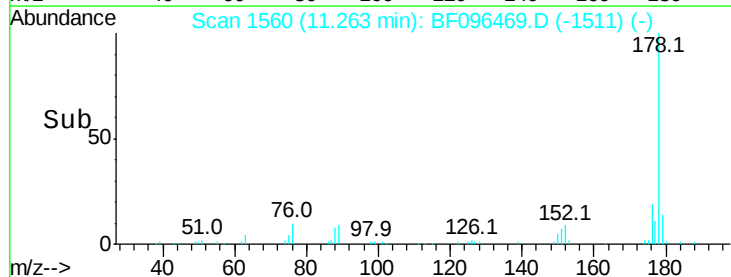
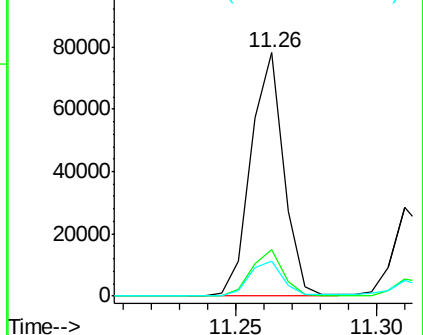


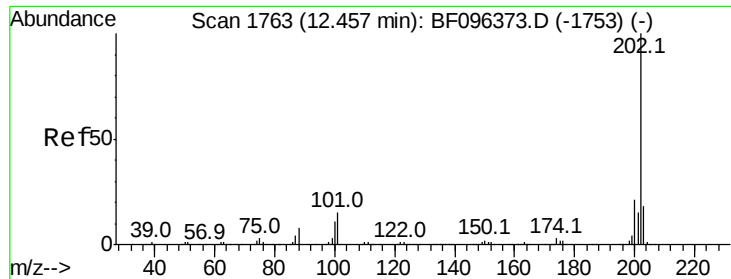
#70
Phenanthrene
Concen: 4.88 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Tgt Ion:178 Resp: 63222
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 14.3 12.6 19.0



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





#74

Fluoranthene

Concen: 18.85 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Instrument :

BNA_F

ClientSampleId :

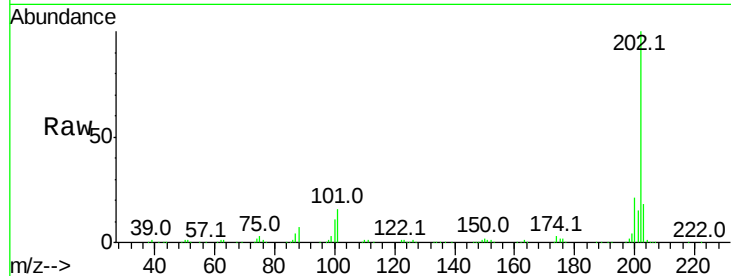
Tot Ion:202 Resp: 239426

Ion Ratio Lower Upper

202 100

101 16.3 0.0 33.2

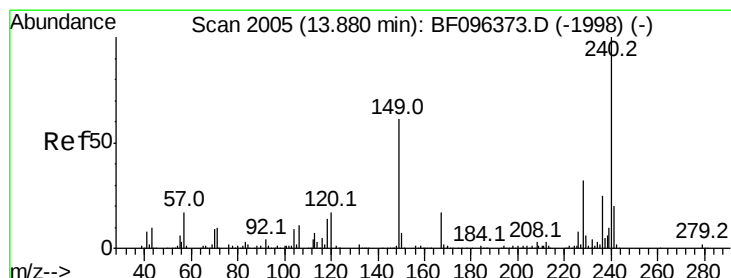
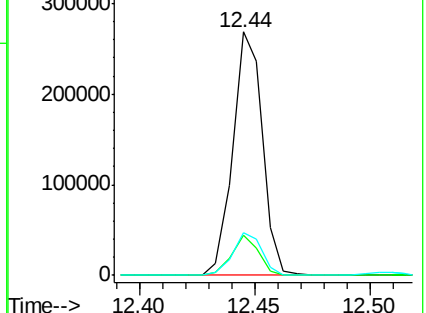
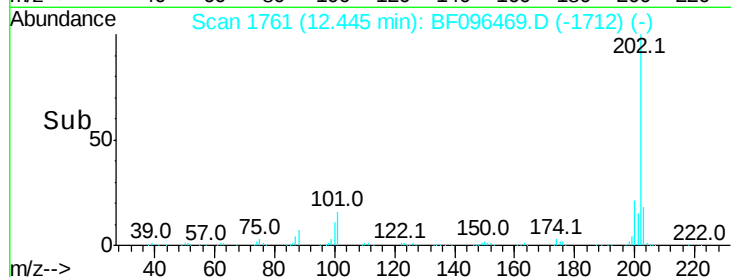
203 17.7 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

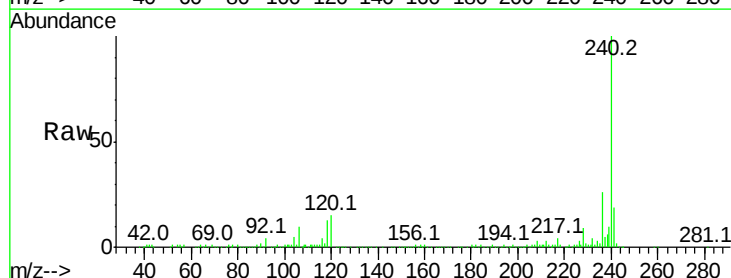
Tgt Ion:240 Resp: 193852

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

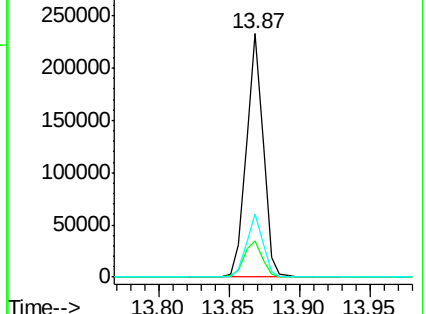
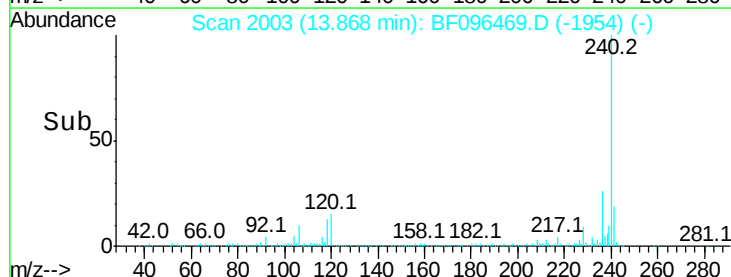
236 26.2 20.5 30.7

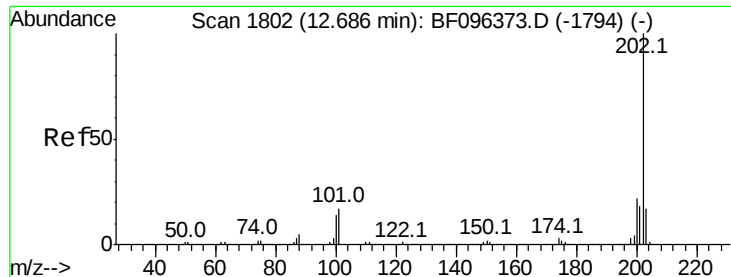


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.14 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Instrument :

BNA_F

ClientSampleId :

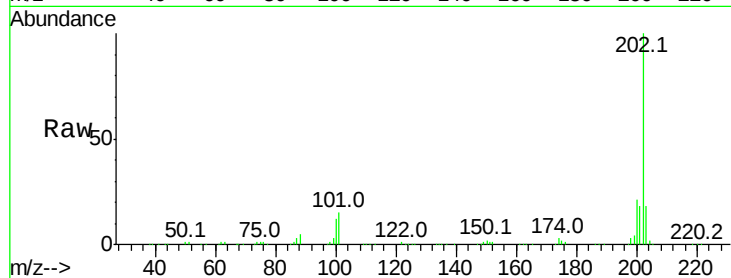
Tot Ion:202 Resp: 204428

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

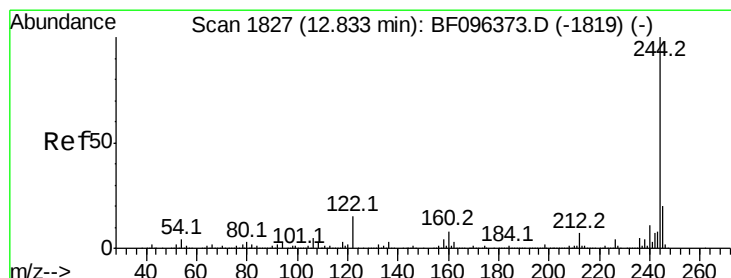
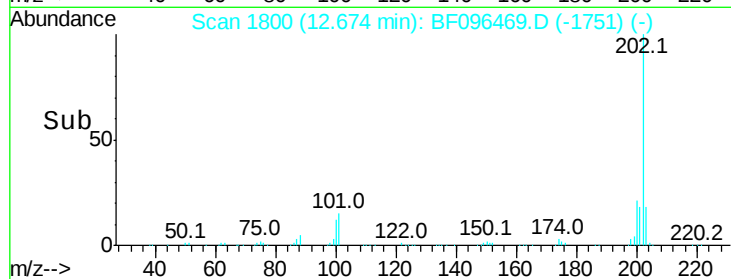
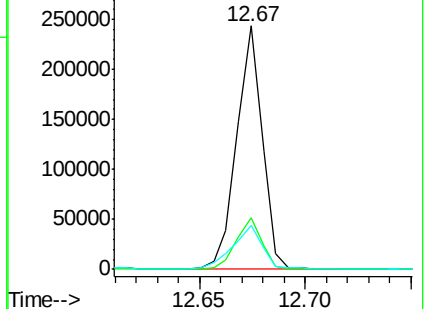
203 17.8 14.4 21.6



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



#78

Terphenyl-d14

Concen: 2.04 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

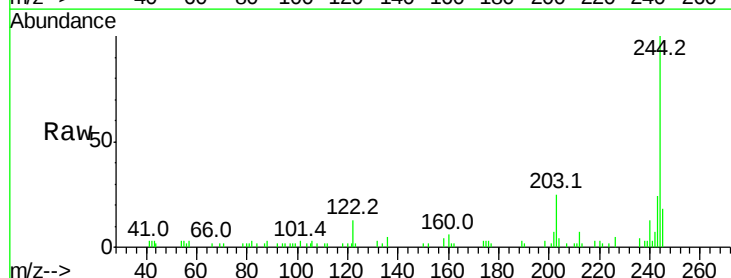
Tgt Ion:244 Resp: 18476

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

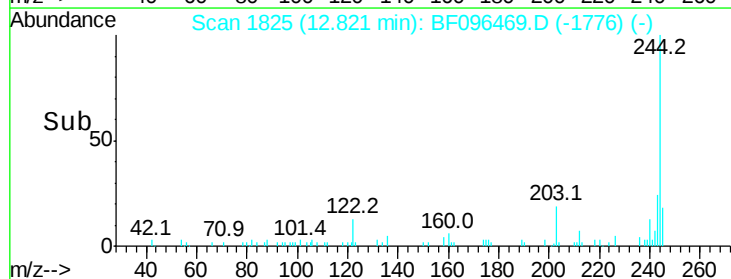
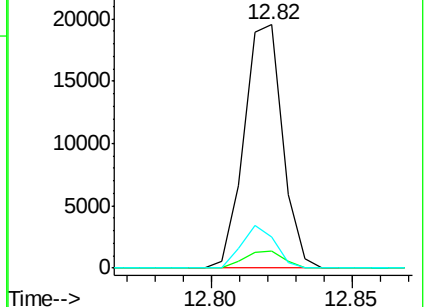
122 13.0 10.3 15.5

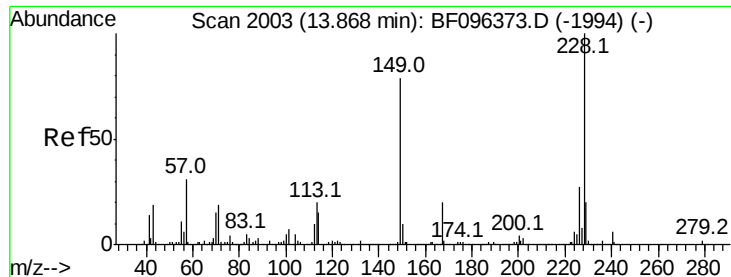


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.43 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Instrument :

BNA_F

ClientSampleId :

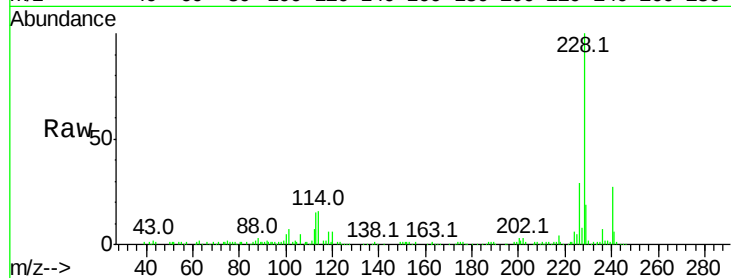
Tot Ion:228 Resp: 105851

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

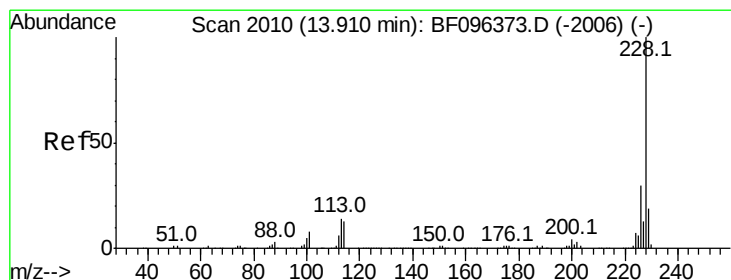
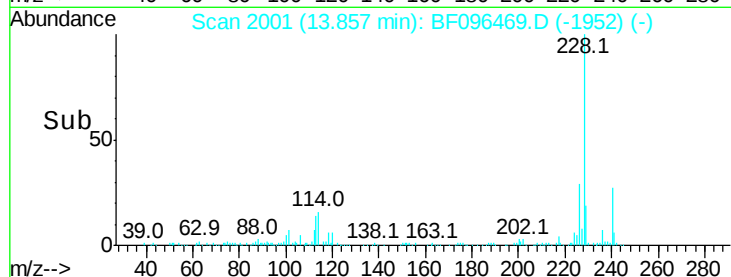
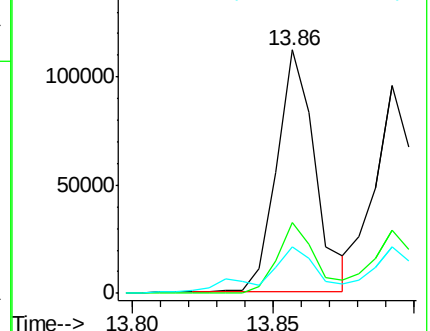
229 19.2 16.3 24.5



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



#82

Chrysene

Concen: 7.61 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

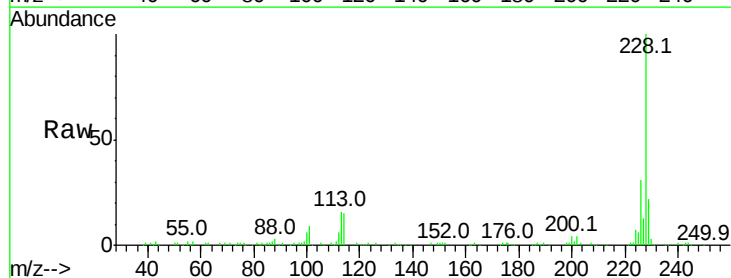
Tgt Ion:228 Resp: 89465

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

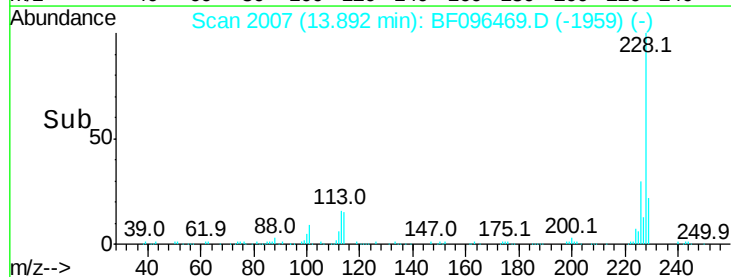
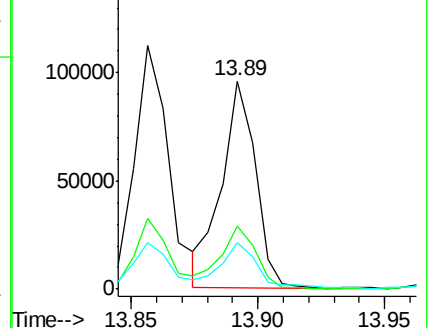
229 22.4 15.8 23.6

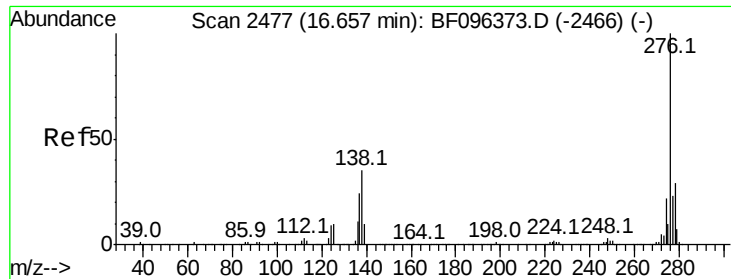


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

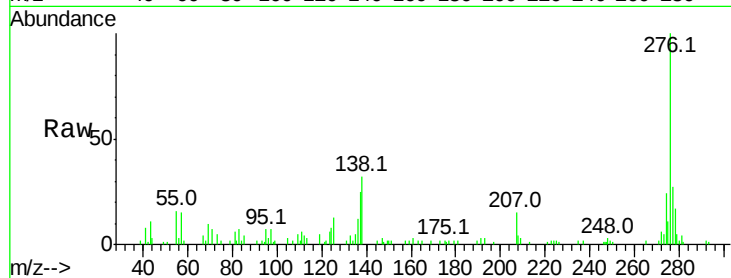




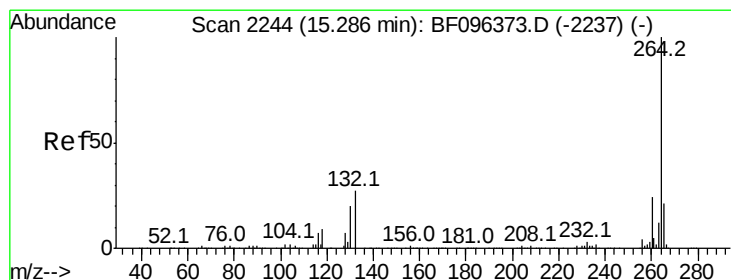
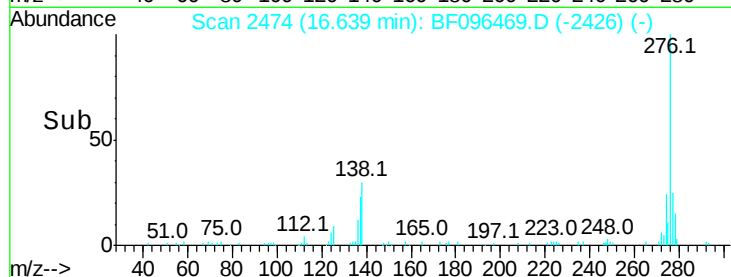
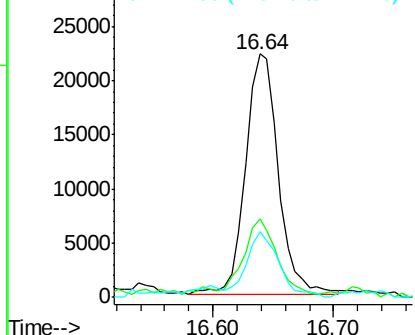
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.51 ng
RT: 16.64 min Scan# 2474
Delta R.T. -0.02 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	34.6	27.8	41.6
277	27.1	20.2	30.4

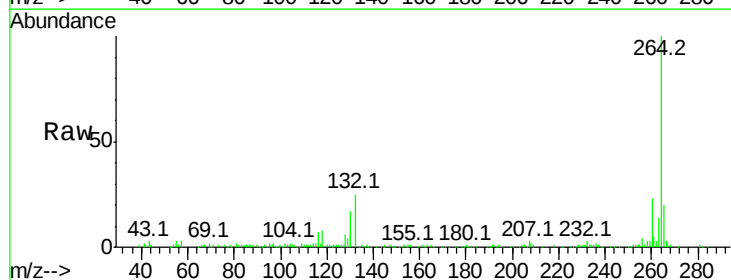


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

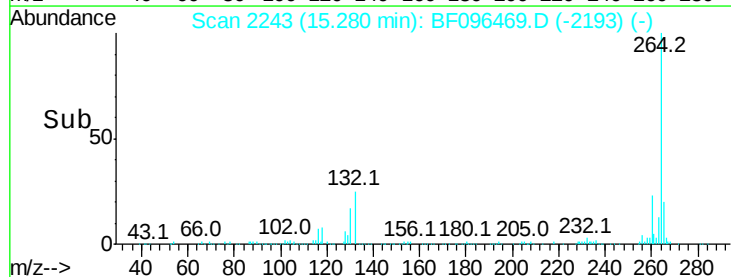
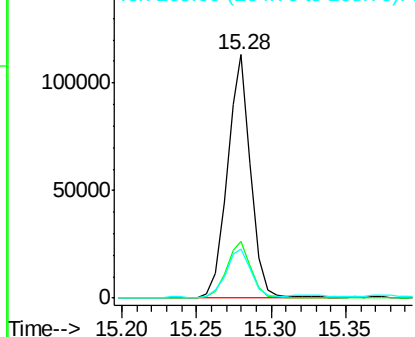


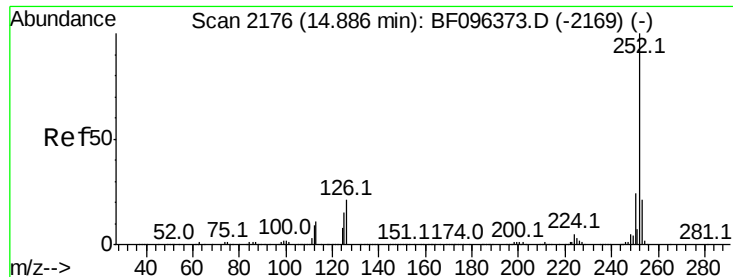
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.28 min Scan# 2243
Delta R.T. -0.01 min
Lab File: BF096469.D
Acq: 4 Jul 2017 5:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	20.4	17.2	25.8



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





#87

Benzo(b)fluoranthene

Concen: 16.19 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Instrument :

BNA_F

ClientSampled :

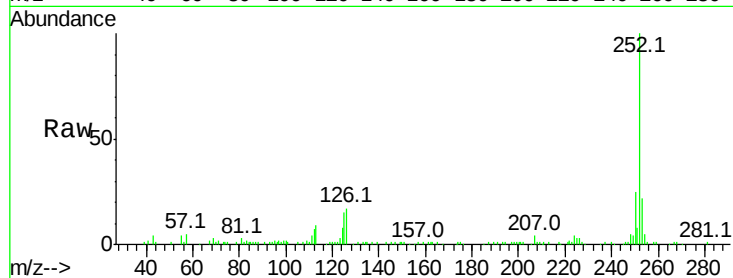
Tot Ion:252 Resp: 125832

Ion Ratio Lower Upper

252 100

253 21.7 18.1 27.1

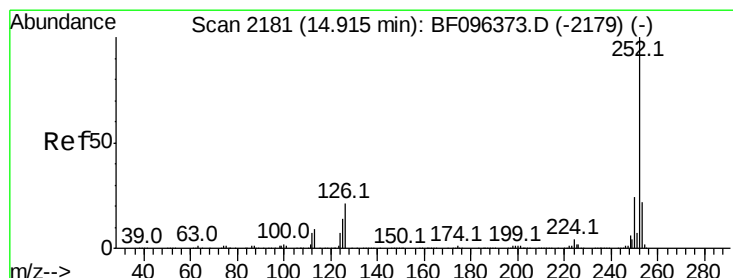
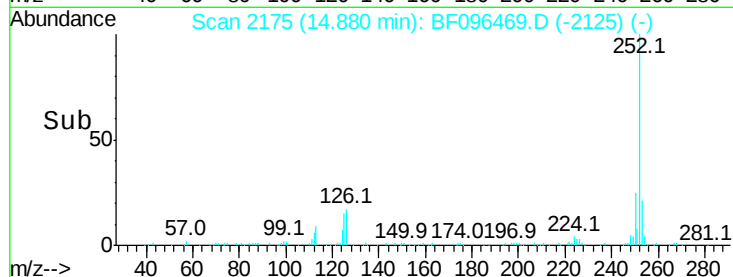
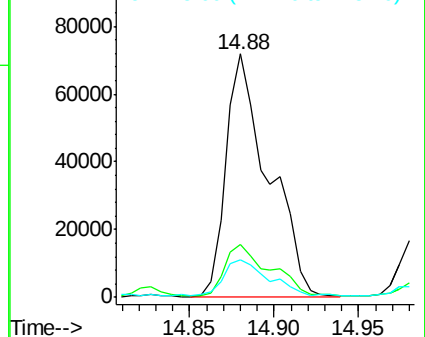
125 15.5 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 18.10 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.04 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

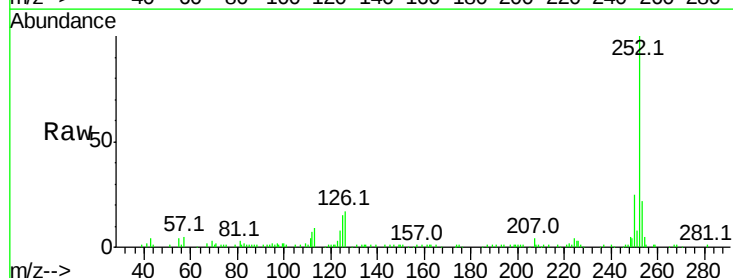
Tgt Ion:252 Resp: 125832

Ion Ratio Lower Upper

252 100

253 21.7 18.4 27.6

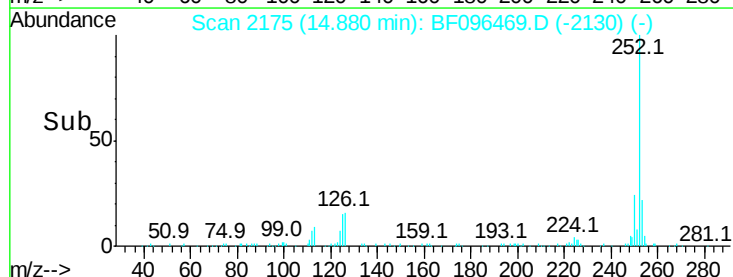
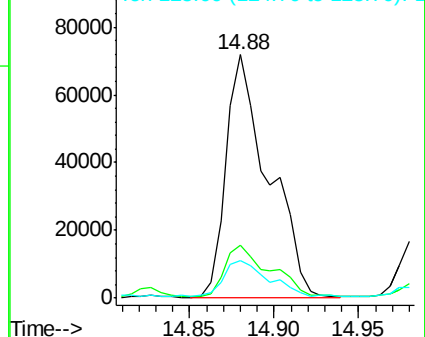
125 15.5 13.1 19.7

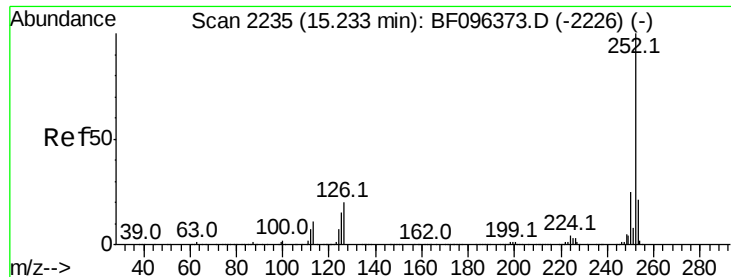


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.48 ng

RT: 15.22 min Scan# 2233

Delta R.T. -0.01 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

Instrument :

BNA_F

ClientSampleId :

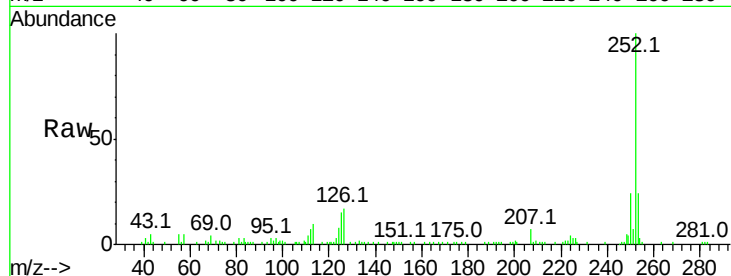
Tot Ion:252 Resp: 72754

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

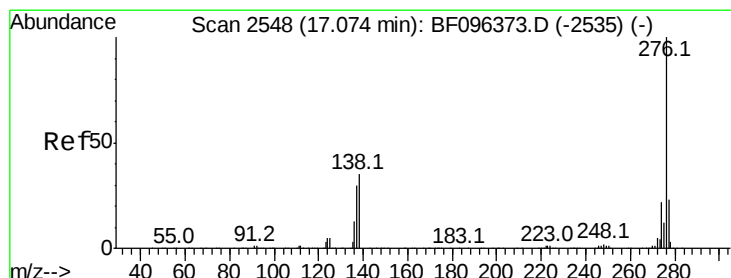
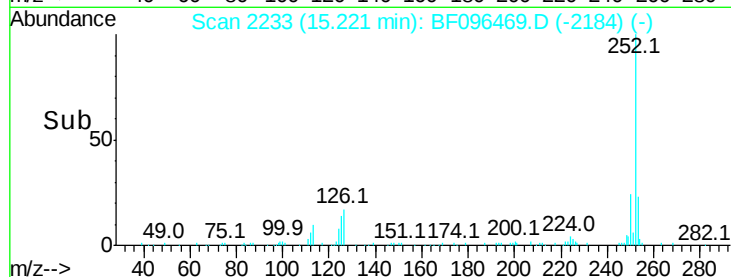
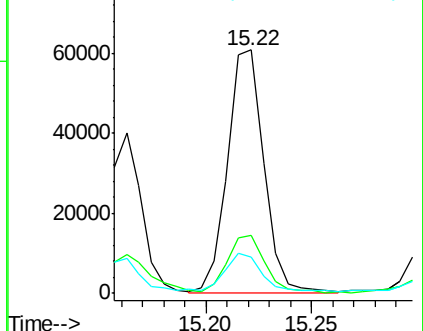
125 14.9 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.44 ng

RT: 17.05 min Scan# 2544

Delta R.T. -0.02 min

Lab File: BF096469.D

Acq: 4 Jul 2017 5:31

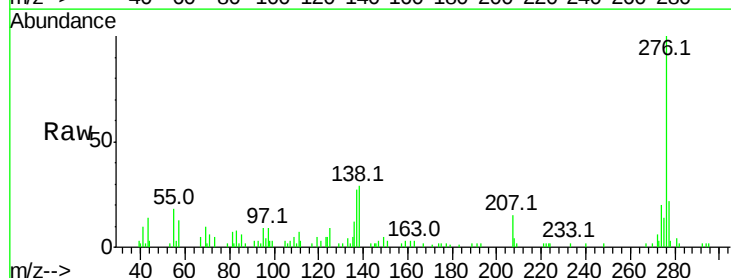
Tgt Ion:276 Resp: 42076

Ion Ratio Lower Upper

276 100

277 22.2 18.6 28.0

138 28.7 25.4 38.0



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

