

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
 Data File : BG023147.D
 Acq On : 16 Jul 2016 15:01
 Operator : UM/SJ
 Sample : H4018-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C8-B4(0-5)C

Quant Time: Jul 18 01:56:39 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 12 18:30:58 2016
 Response via : Initial Calibration

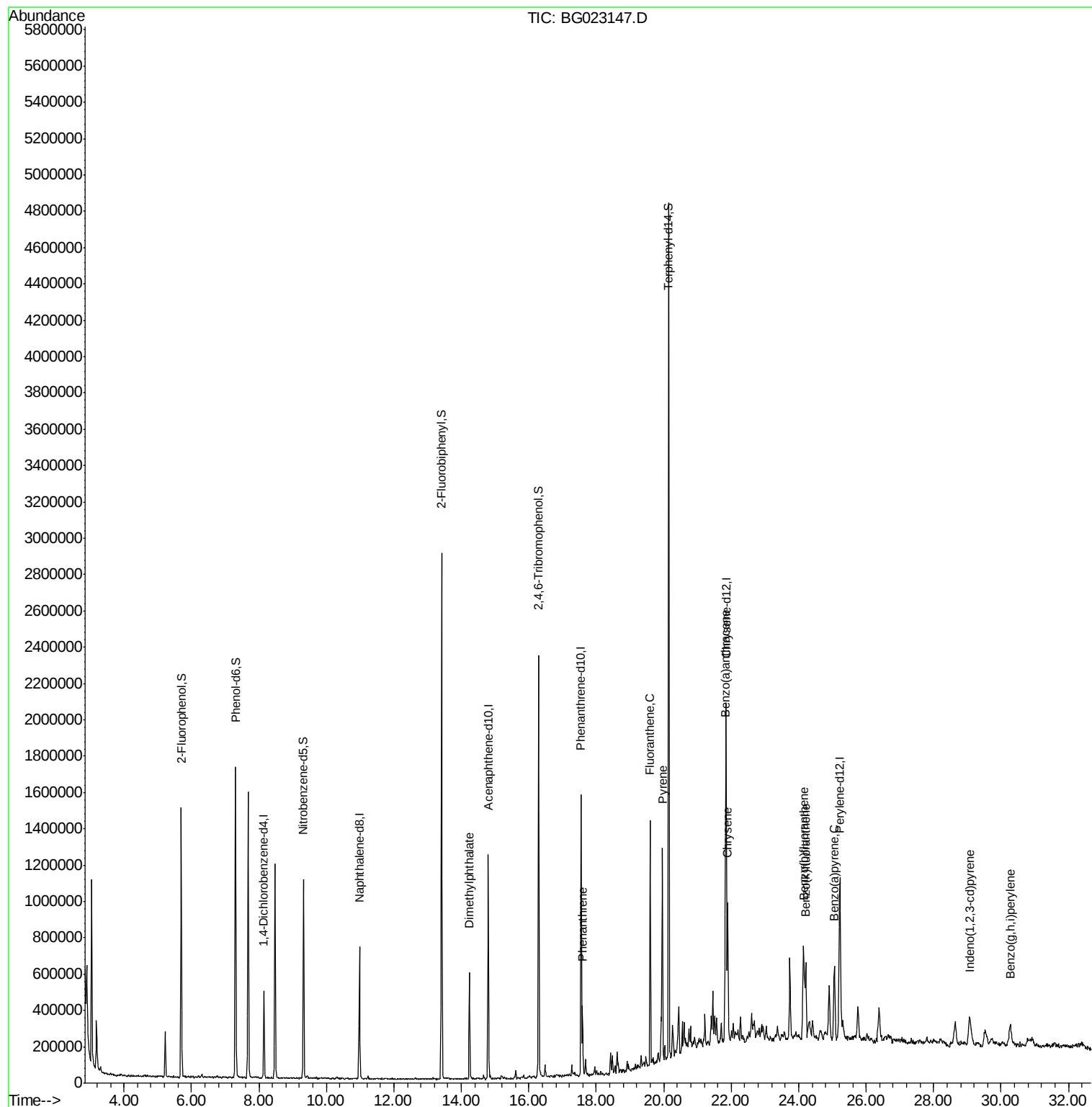
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	125122	20.00	ng	0.00
21) Naphthalene-d8	10.98	136	573976	20.00	ng	0.00
38) Acenaphthene-d10	14.80	164	412571	20.00	ng	0.00
63) Phenanthrene-d10	17.55	188	928631	20.00	ng	-0.01
75) Chrysene-d12	21.85	240	982609	20.00	ng	0.00
86) Perylene-d12	25.22	264	1008186	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	598808	78.27	ng	0.00
7) Phenol-d6	7.31	99	961082	80.21	ng	0.00
23) Nitrobenzene-d5	9.32	82	720014	53.71	ng	0.00
41) 2,4,6-Tribromophenol	16.29	330	436901	58.92	ng	0.00
44) 2-Fluorobiphenyl	13.42	172	1434559	54.77	ng	0.00
78) Terphenyl-d14	20.14	244	1958113	54.97	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	14.24	163	378886	11.24	ng	98
70) Phenanthrene	17.59	178	220401	4.84	ng	95
74) Fluoranthene	19.60	202	866082	15.51	ng	95
77) Pyrene	19.96	202	762943	13.82	ng	92
80) Benzo(a)anthracene	21.83	228	585173	10.64	ng	93
82) Chrysene	21.90	228	570169	11.06	ng	97
85) Indeno(1,2,3-cd)pyrene	29.06	276	281058	4.27	ng	# 100
87) Benzo(b)fluoranthene	24.14	252	728674	12.53	ng	# 98
88) Benzo(k)fluoranthene	24.20	252	229356m	4.16	ng	
89) Benzo(a)pyrene	25.06	252	485605	8.71	ng	# 95
91) Benzo(g,h,i)perylene	30.27	276	282856	5.10	ng	96

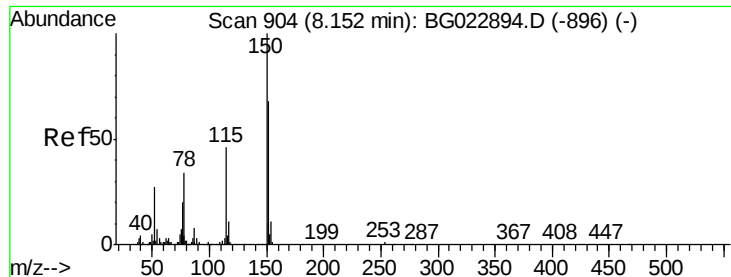
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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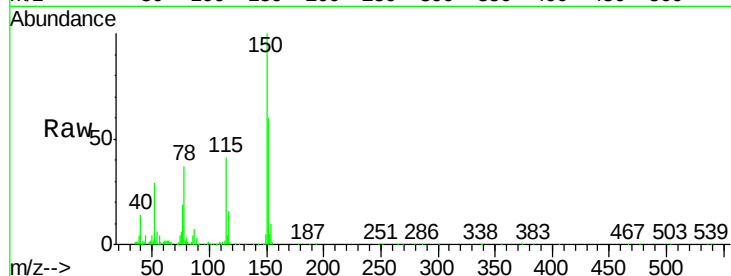


#1

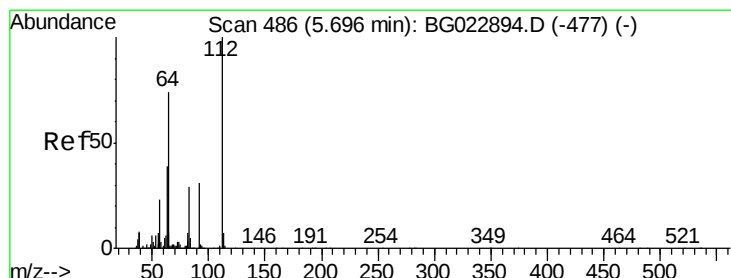
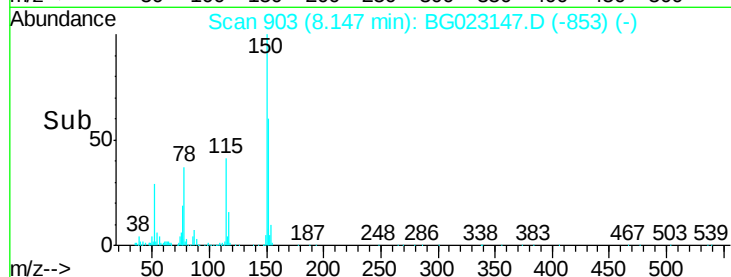
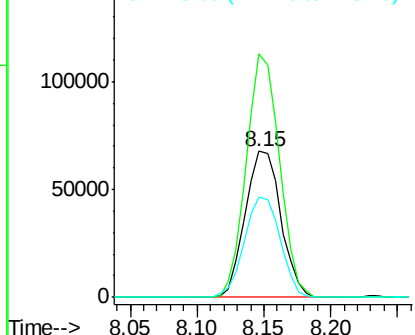
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.15 min Scan# 903
Delta R.T. -0.01 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

Instrument :
BNA_G
ClientSampled :
C8-B4(0-5)C

Tgt Ion	Ratio	Lower	Upper
152	100		
150	166.5	144.7	217.1
115	68.2	64.0	96.0



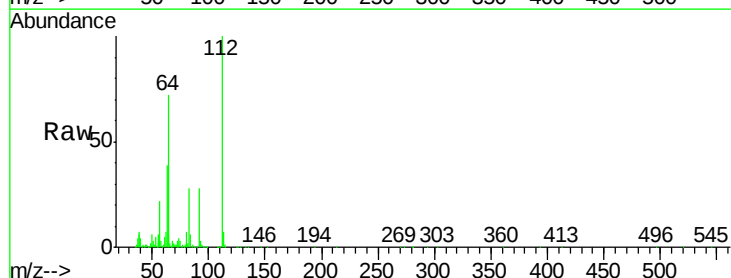
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



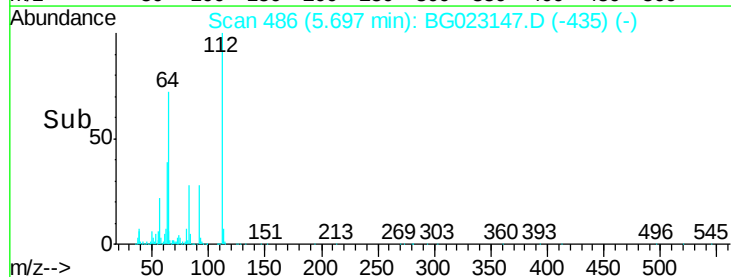
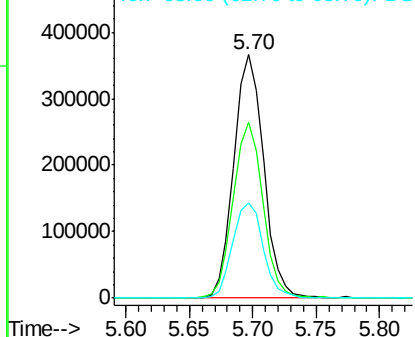
#5

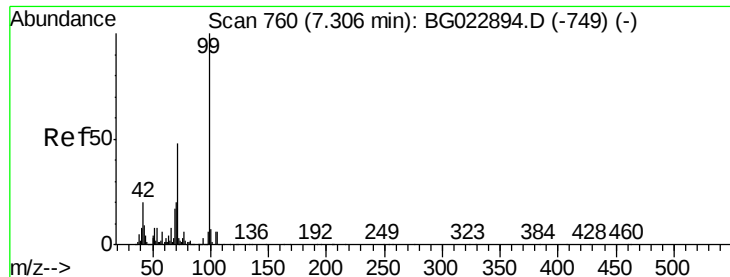
2-Fluorophenol
Concen: 78.27 ng
RT: 5.70 min Scan# 486
Delta R.T. 0.00 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.4	59.0	88.4
63	38.9	37.8	56.8



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





#7

Phenol-d6

Concen: 80.21 ng

RT: 7.31 min Scan# 760

Delta R.T. 0.00 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

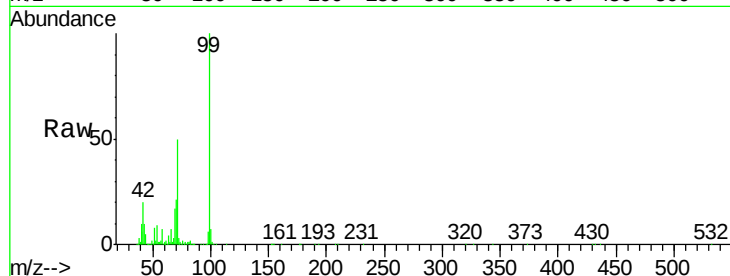
Tgt Ion: 99 Resp: 961082

Ion Ratio Lower Upper

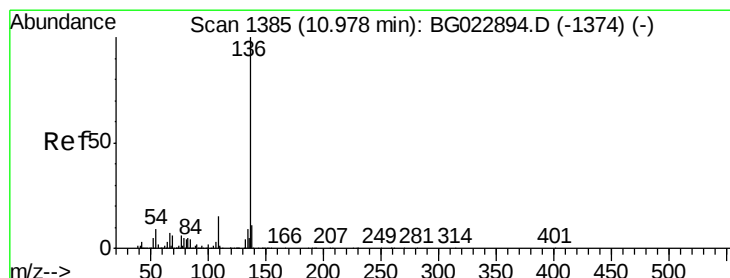
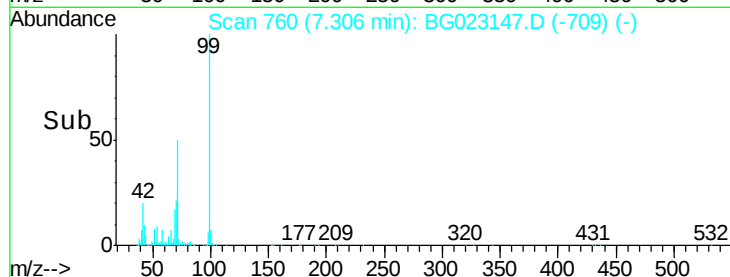
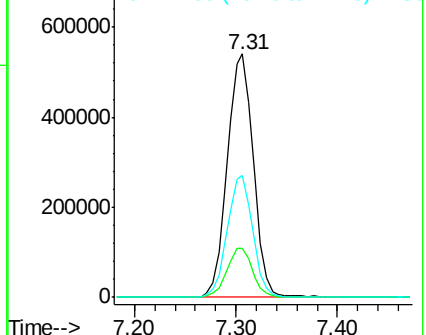
99 100

42 20.1 17.8 26.6

71 49.9 41.5 62.3



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.98 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Tgt Ion: 136 Resp: 573976

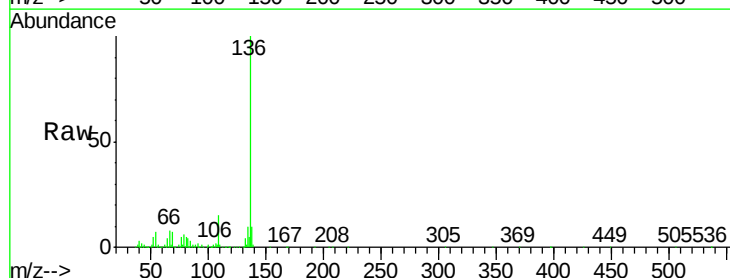
Ion Ratio Lower Upper

136 100

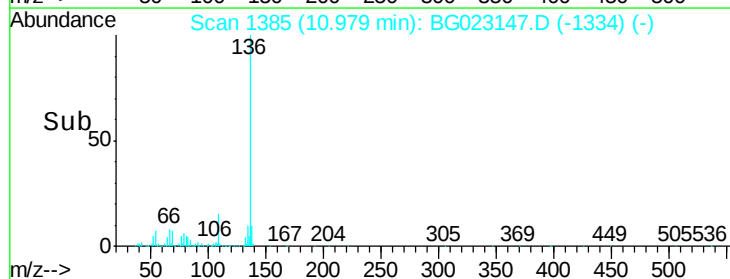
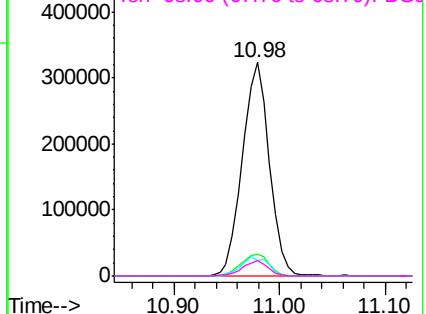
137 10.2 9.6 14.4

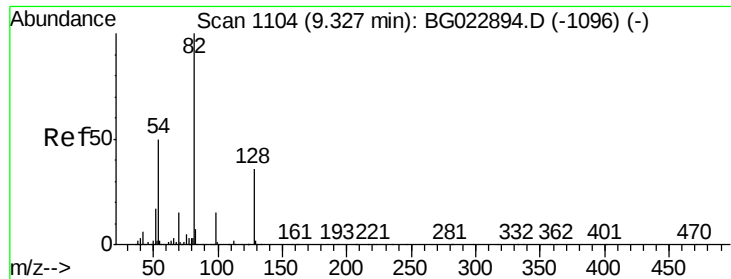
54 7.0 7.3 10.9#

68 7.2 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

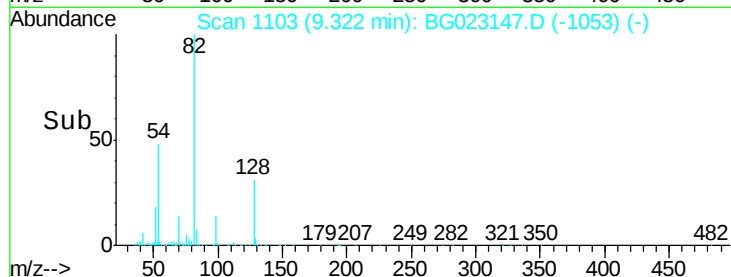
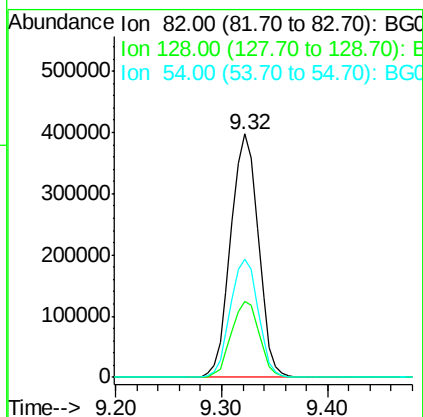
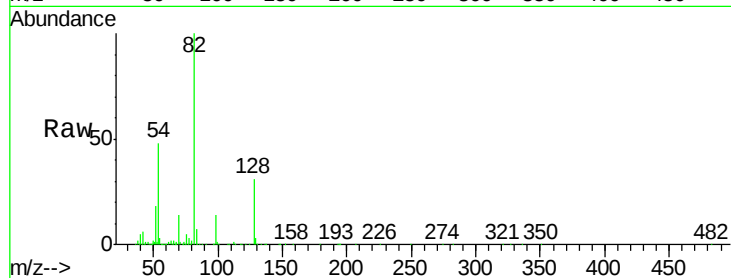




#23
 Nitrobenzene-d5
 Concen: 53.71 ng
 RT: 9.32 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: BG023147.D
 Acq: 16 Jul 2016 15:01

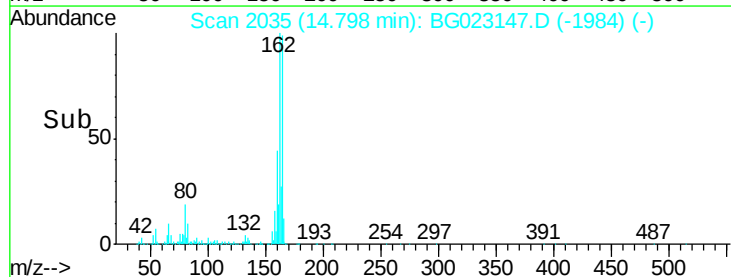
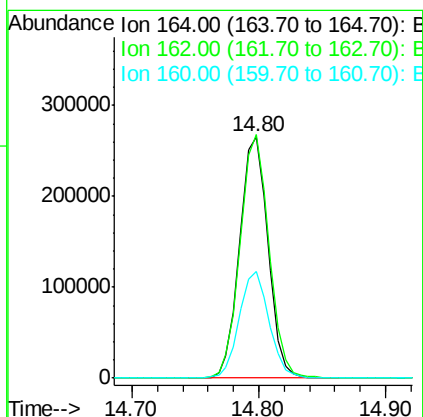
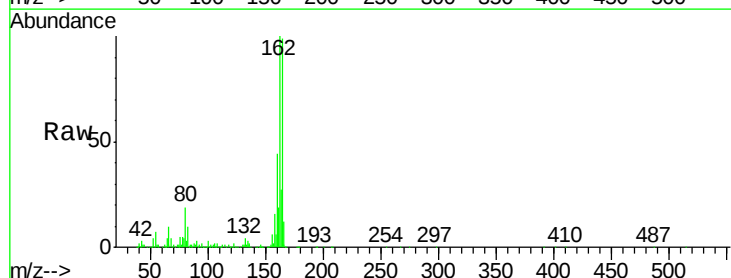
Instrument :
 BNA_G
 ClientSampleId :
 C8-B4(0-5)C

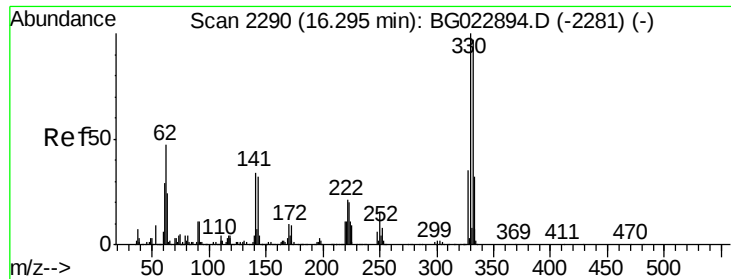
Tgt Ion: 82 Resp: 720014
 Ion Ratio Lower Upper
 82 100
 128 31.3 24.4 36.6
 54 48.4 41.4 62.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.80 min Scan# 2035
 Delta R.T. 0.00 min
 Lab File: BG023147.D
 Acq: 16 Jul 2016 15:01

Tgt Ion: 164 Resp: 412571
 Ion Ratio Lower Upper
 164 100
 162 100.9 87.7 131.5
 160 44.3 37.2 55.8





#41

2,4,6-Tribromophenol

Concen: 58.92 ng

RT: 16.29 min Scan# 2289

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

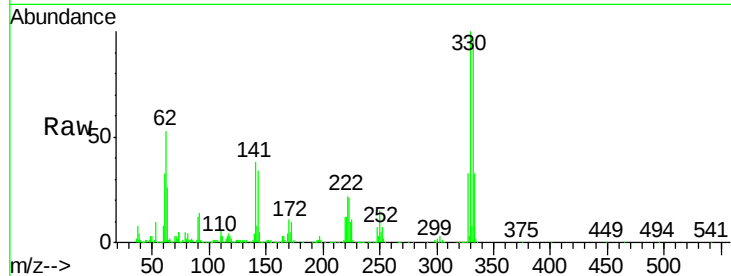
Tgt Ion:330 Resp: 436901

Ion Ratio Lower Upper

330 100

332 96.8 77.4 116.2

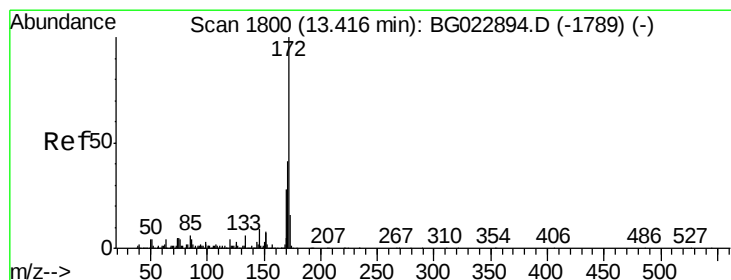
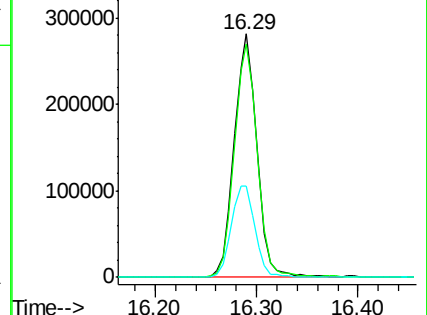
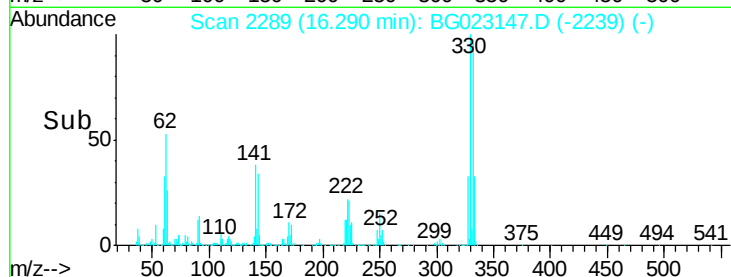
141 40.1 31.7 47.5



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: 54.77 ng

RT: 13.42 min Scan# 1800

Delta R.T. 0.00 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

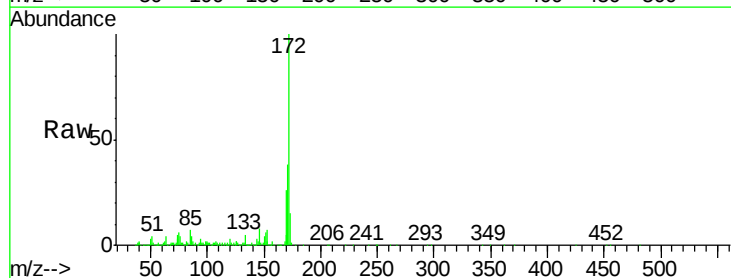
Tgt Ion:172 Resp: 1434559

Ion Ratio Lower Upper

172 100

171 38.0 31.6 47.4

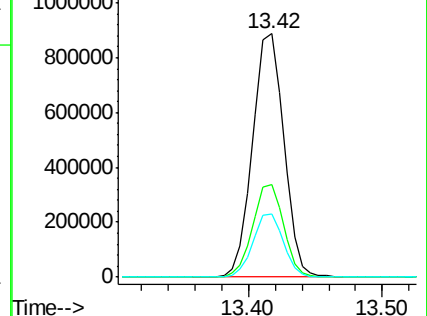
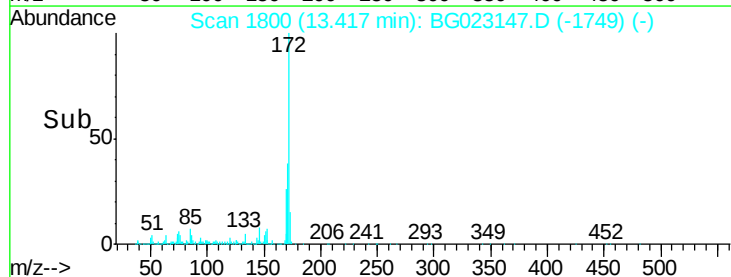
170 26.2 21.3 31.9



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





#49

Dimethylphthalate

Concen: 11.24 ng

RT: 14.24 min Scan# 1940

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

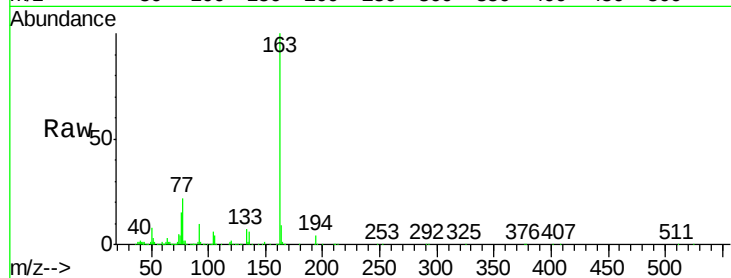
Tgt Ion:163 Resp: 378886

Ion Ratio Lower Upper

163 100

194 4.3 3.6 5.4

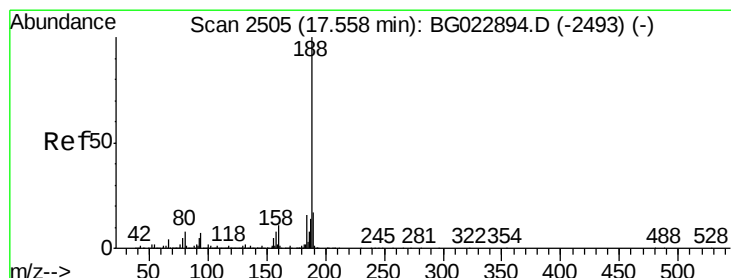
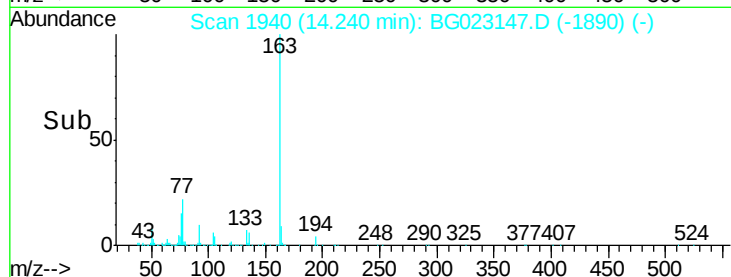
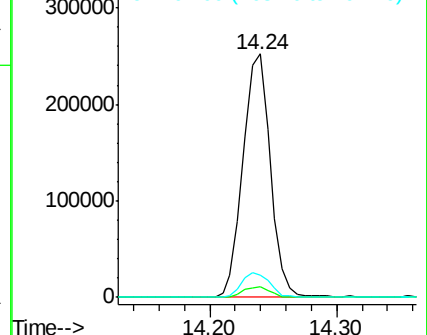
164 9.3 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.55 min Scan# 2503

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

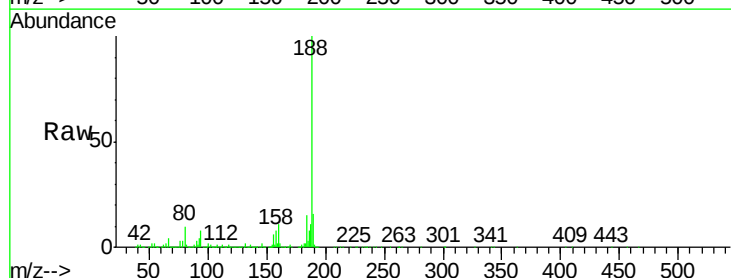
Tgt Ion:188 Resp: 928631

Ion Ratio Lower Upper

188 100

94 8.2 5.2 7.8#

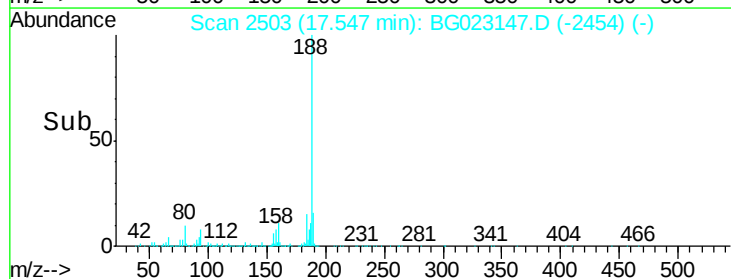
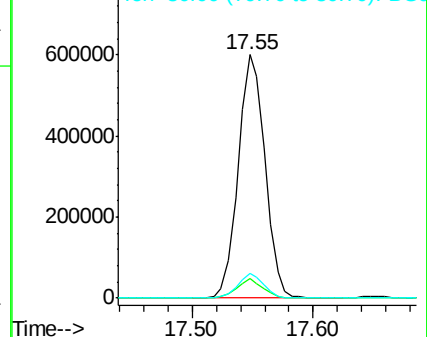
80 10.2 7.2 10.8

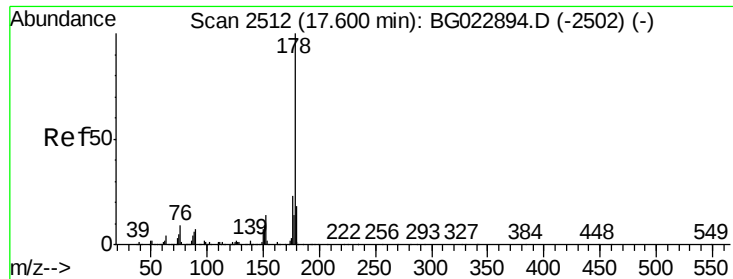


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 4.84 ng

RT: 17.59 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

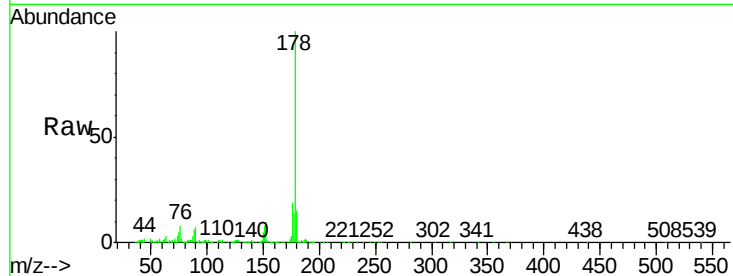
Tgt Ion:178 Resp: 220401

Ion Ratio Lower Upper

178 100

176 19.4 16.8 25.2

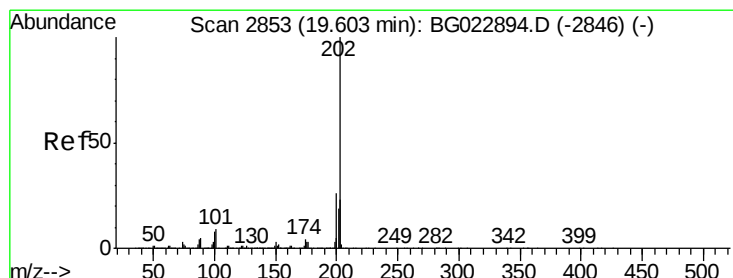
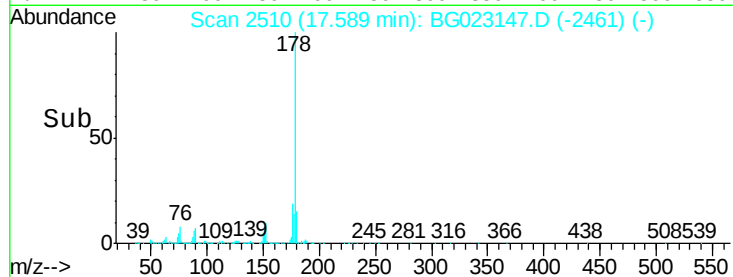
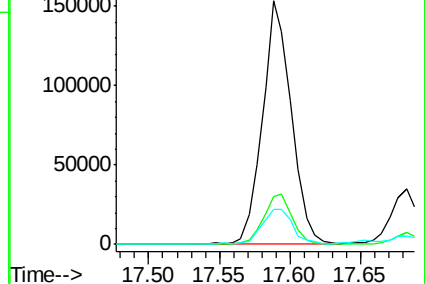
179 14.5 14.3 21.5



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



#74

Fluoranthene

Concen: 15.51 ng

RT: 19.60 min Scan# 2852

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

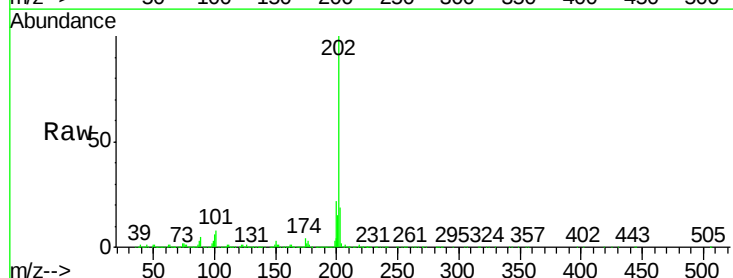
Tgt Ion:202 Resp: 866082

Ion Ratio Lower Upper

202 100

101 8.0 0.0 27.4

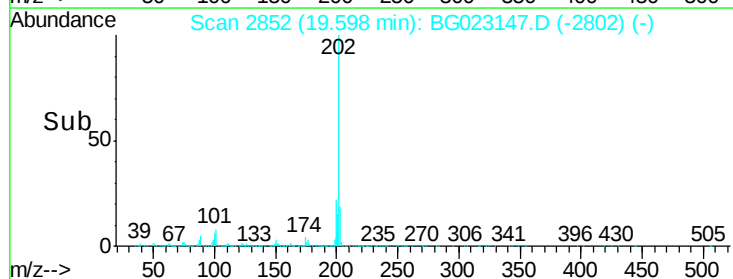
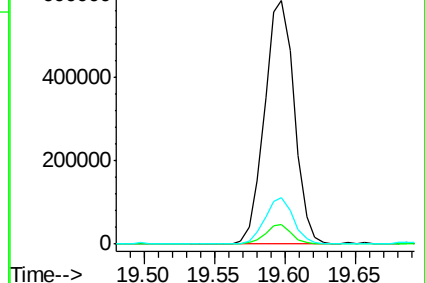
203 18.9 1.7 41.7

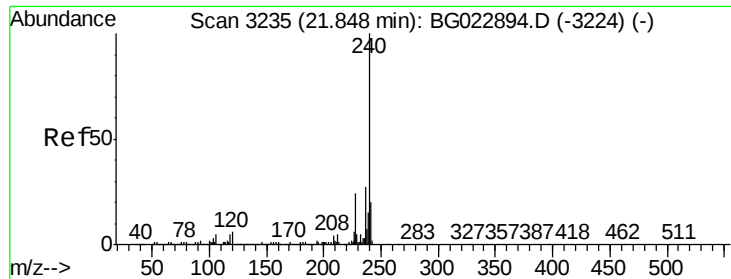


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

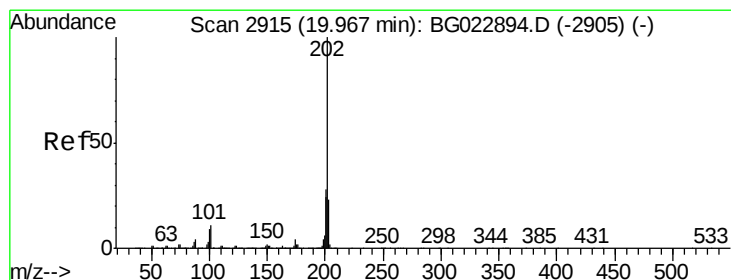
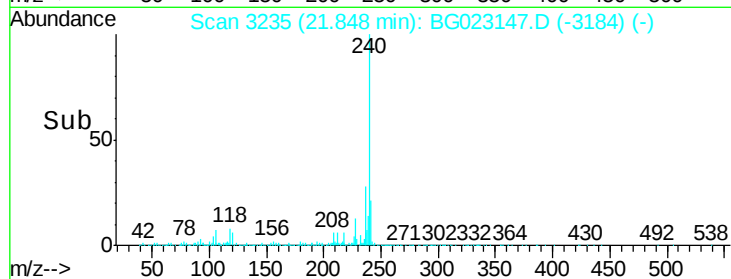
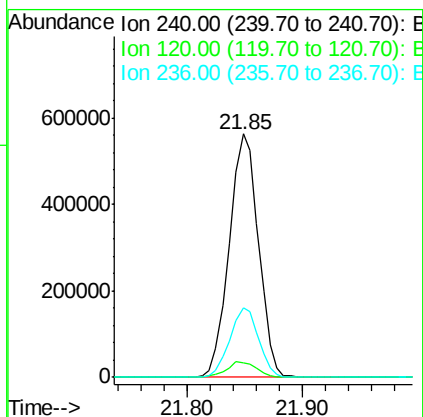
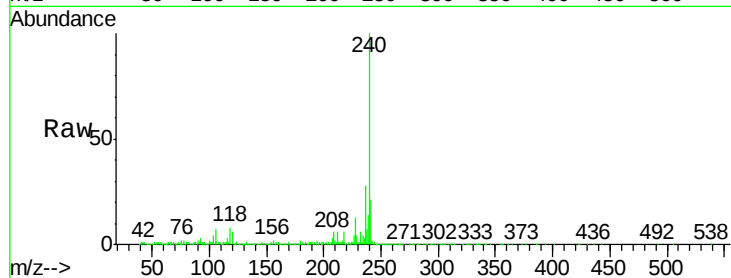




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.85 min Scan# 3235
Delta R.T. 0.00 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

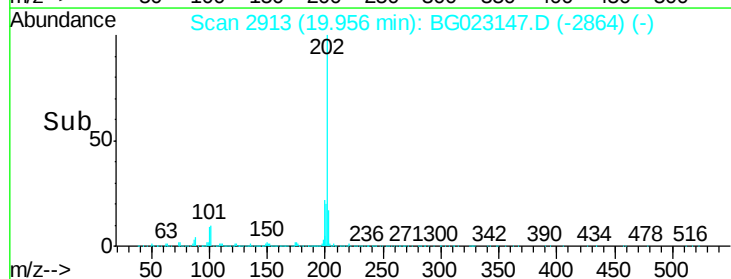
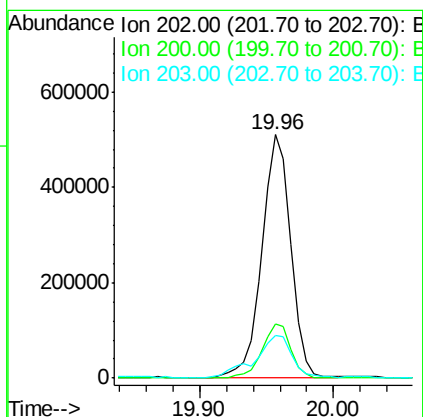
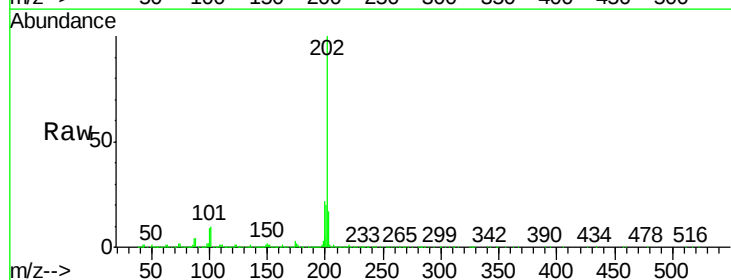
Instrument :
BNA_G
ClientSampleId :
C8-B4(0-5)C

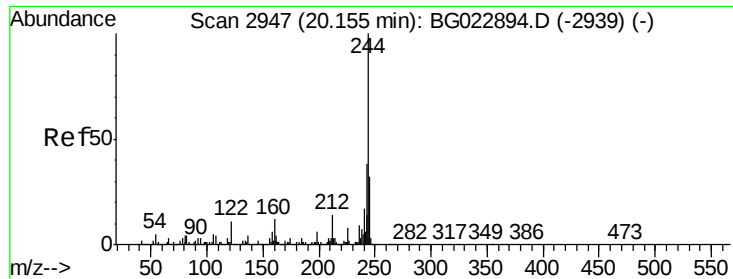
Tgt Ion:240 Resp: 982609
Ion Ratio Lower Upper
240 100
120 6.2 4.1 6.1#
236 28.4 21.1 31.7



#77
Pyrene
Concen: 13.82 ng
RT: 19.96 min Scan# 2913
Delta R.T. -0.01 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

Tgt Ion:202 Resp: 762943
Ion Ratio Lower Upper
202 100
200 22.4 21.2 31.8
203 17.4 16.8 25.2





#78

Terphenyl-d14

Concen: 54.97 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

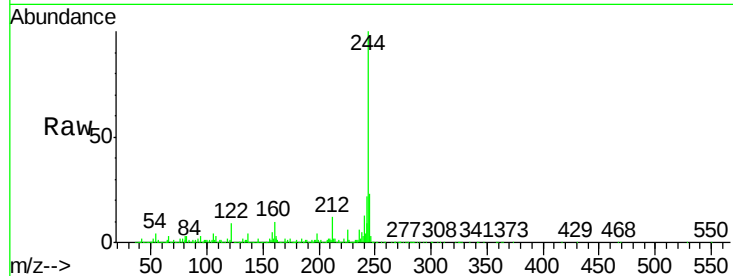
Tgt Ion:244 Resp: 1958113

Ion Ratio Lower Upper

244 100

212 11.7 10.8 16.2

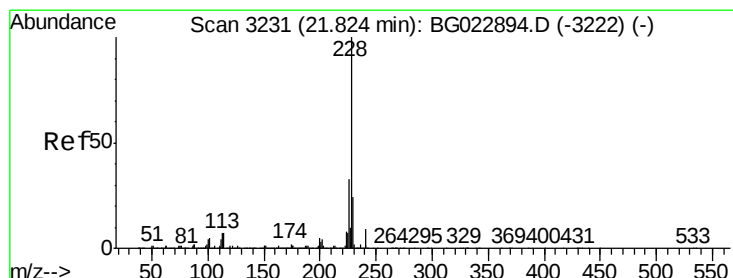
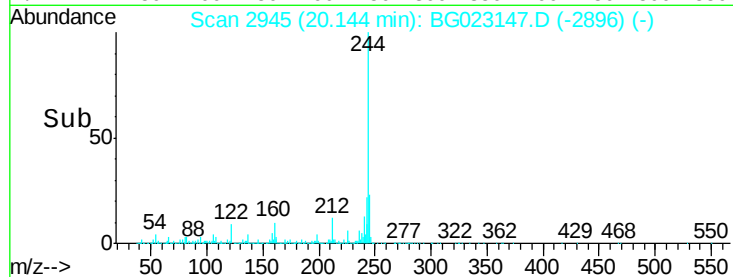
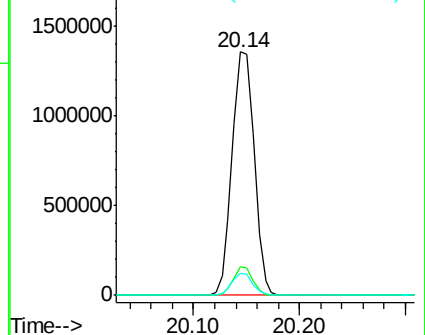
122 9.3 8.0 12.0



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: 10.64 ng

RT: 21.83 min Scan# 3232

Delta R.T. 0.01 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

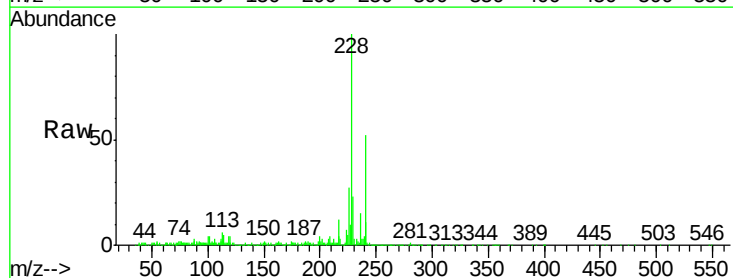
Tgt Ion:228 Resp: 585173

Ion Ratio Lower Upper

228 100

226 26.8 25.3 37.9

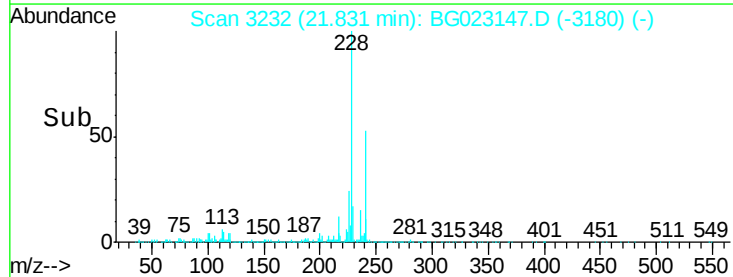
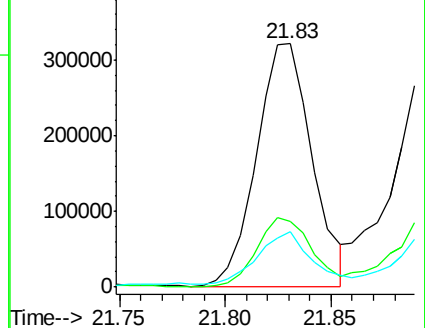
229 23.0 19.9 29.9

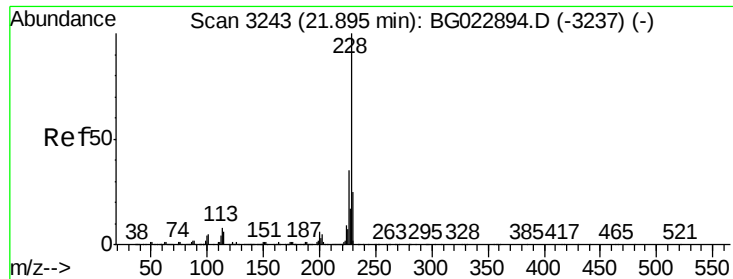


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.06 ng

RT: 21.90 min Scan# 3243

Delta R.T. 0.00 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

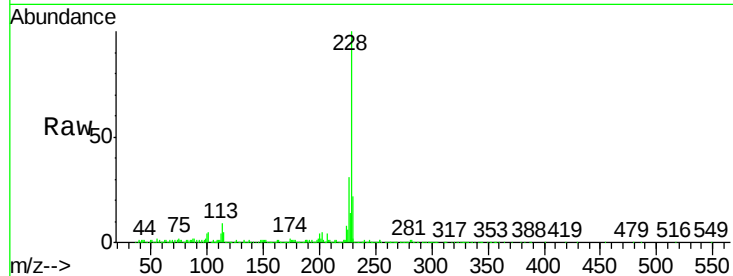
Tgt Ion:228 Resp: 570169

Ion Ratio Lower Upper

228 100

226 31.1 26.7 40.1

229 22.5 17.4 26.2



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

400000

300000

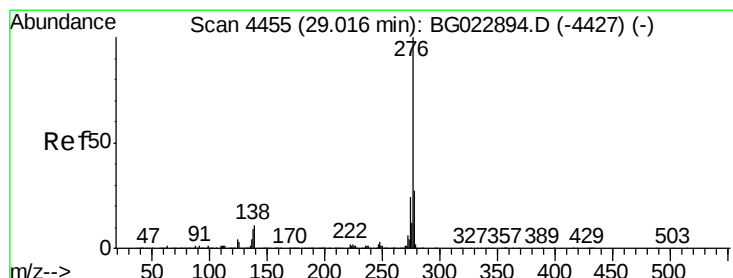
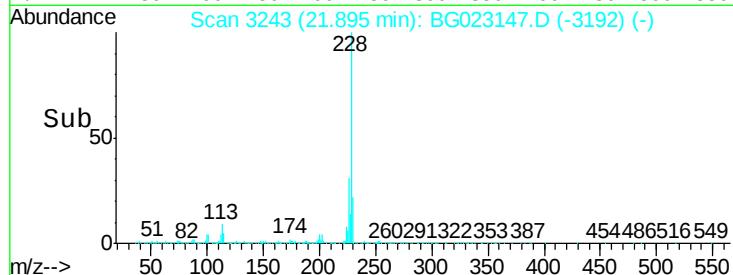
200000

100000

0

21.85 21.90 21.95

Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.27 ng

RT: 29.06 min Scan# 4463

Delta R.T. 0.05 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

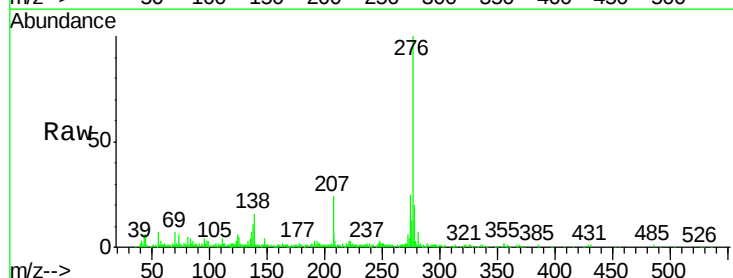
Tgt Ion:276 Resp: 281058

Ion Ratio Lower Upper

276 100

138 13.8 0.0 0.0#

277 10.5 0.0 0.0#



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

80000

60000

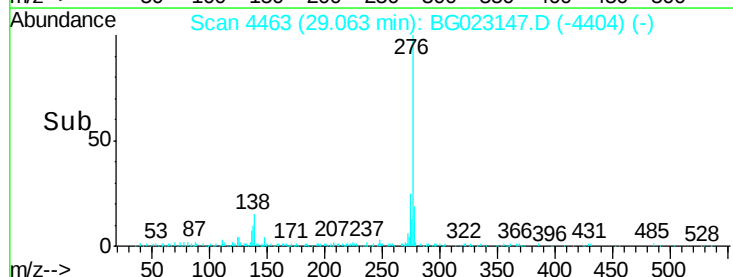
40000

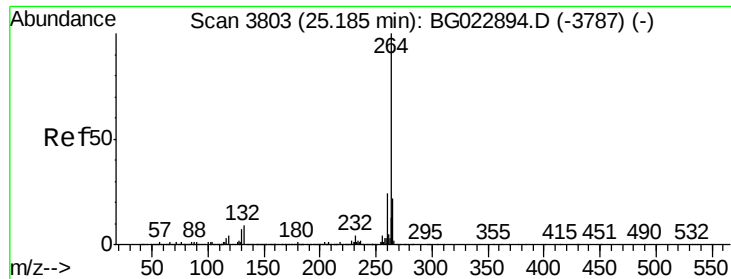
20000

0

29.00 29.06 29.20

Time-->



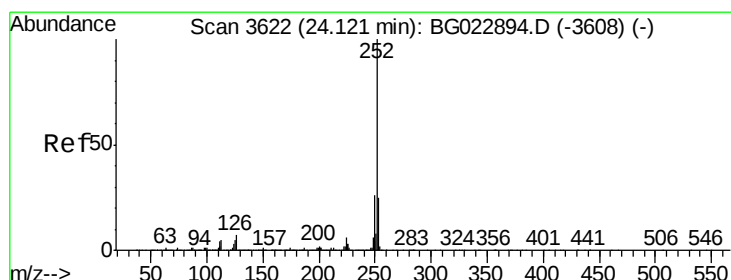
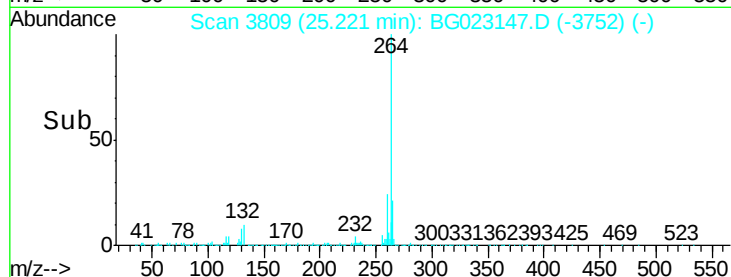
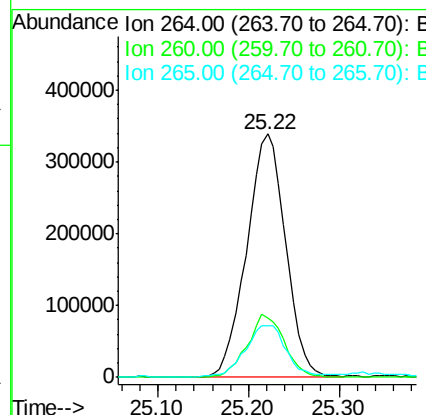
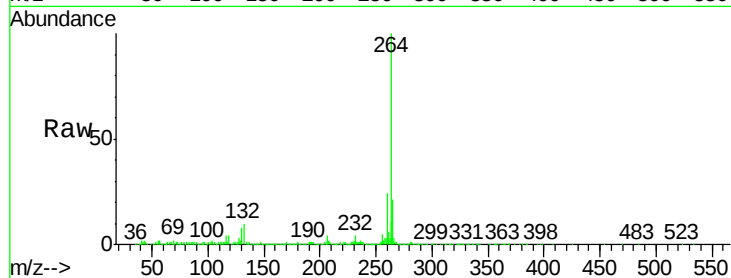


#86
Perylene-d12
Concen: 20.00 ng
RT: 25.22 min Scan# 3809
Delta R.T. 0.04 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

Instrument :
BNA_G
ClientSampleId :
C8-B4(0-5)C

Tgt Ion:264 Resp: 1008186

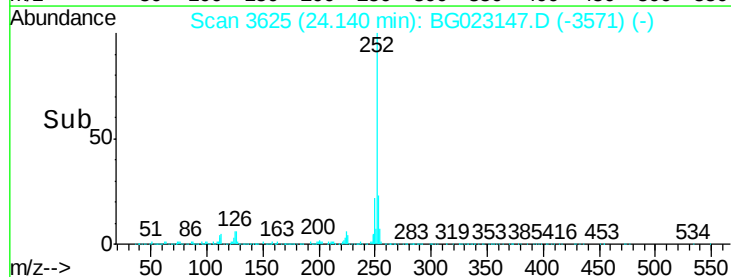
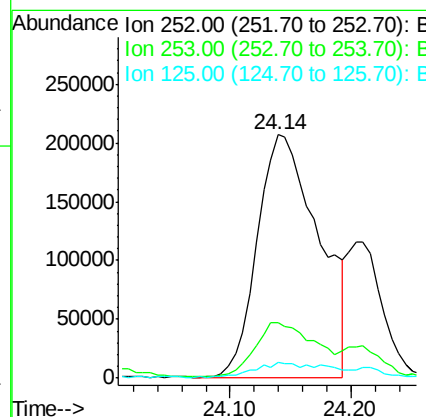
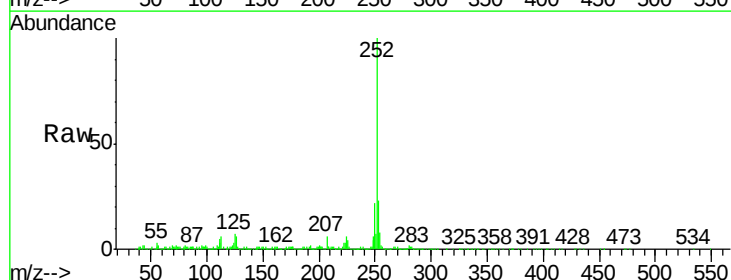
Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.4	27.6
265	21.0	18.9	28.3

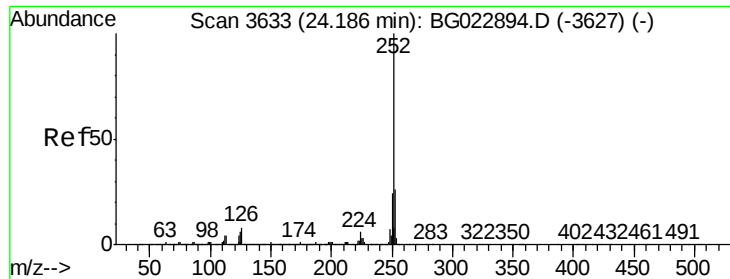


#87
Benzo(b)fluoranthene
Concen: 12.53 ng
RT: 24.14 min Scan# 3625
Delta R.T. 0.02 min
Lab File: BG023147.D
Acq: 16 Jul 2016 15:01

Tgt Ion:252 Resp: 728674

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.9	28.3
125	6.7	3.9	5.9#





#88

Benzo(k)fluoranthene

Concen: 4.16 ng m

RT: 24.20 min Scan# 3636

Delta R.T. 0.02 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

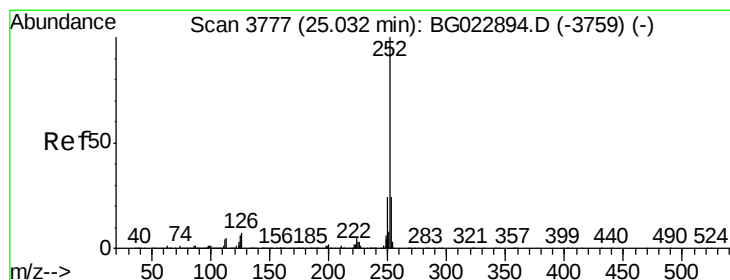
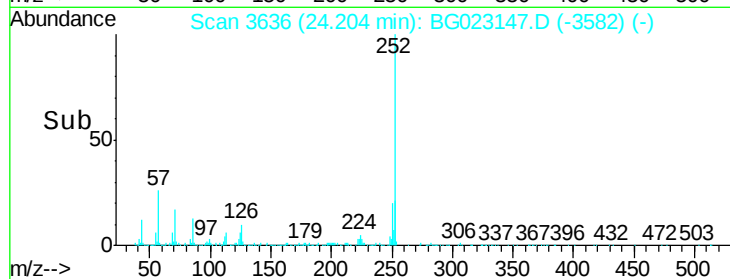
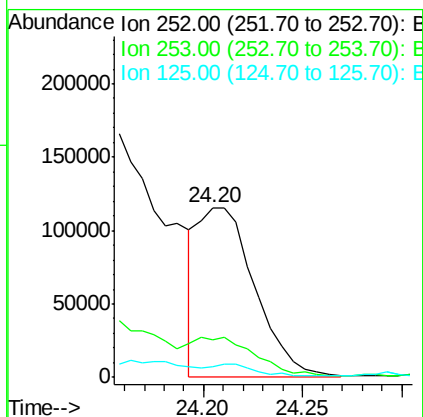
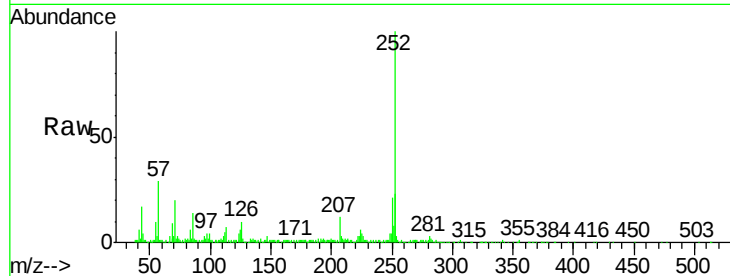
Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C

Tgt Ion:	252	Resp:	229356
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.8	28.2
125	6.1	3.2	4.8#



#89

Benzo(a)pyrene

Concen: 8.71 ng

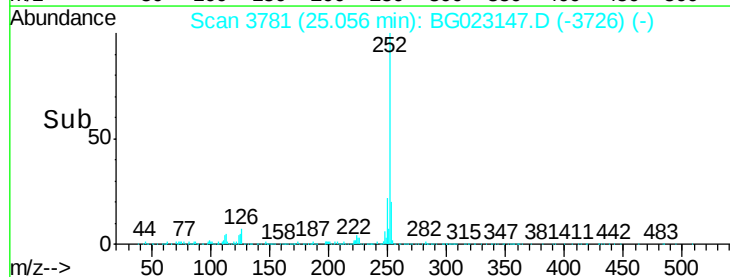
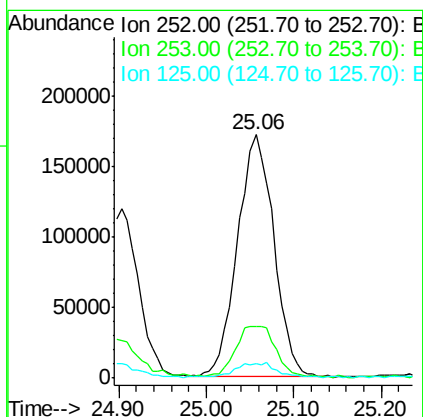
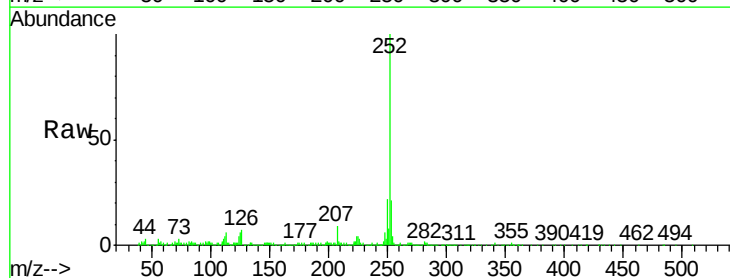
RT: 25.06 min Scan# 3781

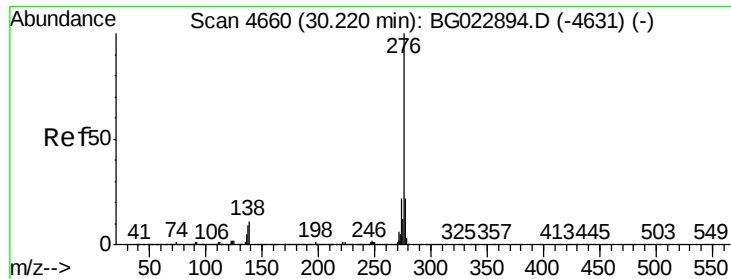
Delta R.T. 0.02 min

Lab File: BG023147.D

Acq: 16 Jul 2016 15:01

Tgt Ion:	252	Resp:	485605
Ion Ratio	Lower	Upper	
252	100		
253	21.1	18.7	28.1
125	6.2	3.9	5.9#





#91

Benzo(g,h,i)perylene

Concen: 5.10 ng

RT: 30.27 min Scan# 4669

Delta R.T. 0.05 min

Lab File: BG023147.D

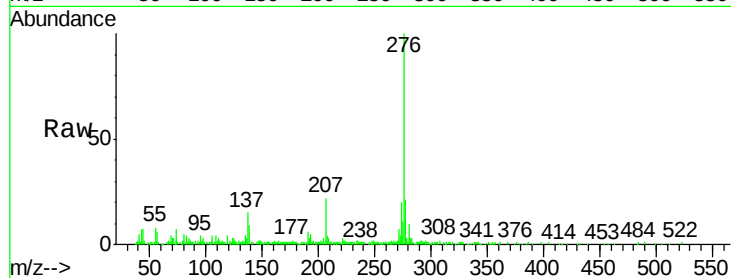
Acq: 16 Jul 2016 15:01

Instrument :

BNA_G

ClientSampleId :

C8-B4(0-5)C



Tgt Ion: 276 Resp: 282856

Ion Ratio Lower Upper

276 100

277 20.9 18.6 27.8

138 8.7 6.8 10.2

