

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032416\
 Data File : BG021492.D
 Acq On : 24 Mar 2016 19:43
 Operator : UM/SJ
 Sample : H1909-10MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T45MS

Quant Time: Mar 25 01:22:58 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG031616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 25 01:20:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng/ul	-8.06
18) Naphthalene-d8	10.87	136	976	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	569	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.41	188	1711	20.00	ng/ul	0.00
78) Chrysene-d12	21.67	240	2148	20.00	ng/ul	0.00
86) Perylene-d12	24.87	264	1967	20.00	ng/ul	-0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	0.00	99	0	0.00	ng/ul	
7) Bis-(2-Chloroethyl)ether-d	0.00	67	0	0.00	ng/ul	
9) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/ul	
13) 4-Methylphenol-d8	0.00	113	0	0.00	ng/ul	
19) Nitrobenzene-d5	0.00	128	0	0.00	ng/ul	
22) 2-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
26) 2,4-Dichlorophenol-d3	0.00	165	0	0.00	ng/ul	
29) 4-Chloroaniline-d4	0.00	131	0	0.00	ng/ul	
44) Dimethylphthalate-d6	0.00	166	0	0.00	ng/ul	
47) Acenaphthylene-d8	0.00	160	0	0.00	ng/ul	
52) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
58) Fluorene-d10	0.00	176	0	0.00	ng/ul	
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.41	188	1711	20.41	ng/ul	-0.10
79) Pyrene-d10	19.79	212	53	0.53	ng/ul	0.00
90) Benzo(a)pyrene-d12	0.00	264	0	0.00	ng/ul	

Target Compounds

						Qvalue
28) Naphthalene	10.92	128	681	13.16	ng/ul#	69
34) 2-Methylnaphthalene	12.52	142	137	3.57	ng/ul	95
35) 1-Methylnaphthalene	12.73	142	249	6.68	ng/ul#	6
45) Dimethylphthalate	14.12	163	13806	280.44	ng/ul	100
48) Acenaphthylene	14.40	152	1642	28.38	ng/ul#	67
50) Acenaphthene	14.74	153	5603	140.39	ng/ul	94
54) Dibenzofuran	15.07	168	3952	70.69	ng/ul#	84
57) Diethylphthalate	15.48	149	233	4.43	ng/ul#	59
59) Fluorene	15.72	166	8435	172.56	ng/ul	97
65) N-Nitrosodiphenylamine	15.93	169	256	4.83	ng/ul#	1
70) Phenanthrene	17.46	178	206871	2135.00	ng/ul	98
72) Anthracene	17.55	178	60285	611.46	ng/ul	98
75) Carbazole	17.83	167	6492	76.11	ng/ul	95
76) Di-n-butylphthalate	18.36	149	1148	10.43	ng/ul#	77
77) Fluoranthene	19.46	202	424540	3630.58	ng/ul#	94
80) Pyrene	19.82	202	378869	2960.27	ng/ul	94
81) Butylbenzylphthalate	20.68	149	302	5.59	ng/ul#	81
82) 3,3'-Dichlorobenzidine	21.43	252	150	3.37	ng/ul#	25
83) Benzo(a)anthracene	21.65	228	199179	1536.10	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.53	149	2723	34.44	ng/ul#	88
85) Chrysene	21.71	228	174538	1421.31	ng/ul	98
87) Di-n-octyl phthalate	22.73	149	280	2.10	ng/ul	100
88) Benzo(b)fluoranthene	23.86	252	179560	1421.15	ng/ul	96

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Mar 25 01:20:42 2016
Response via : Initial Calibration

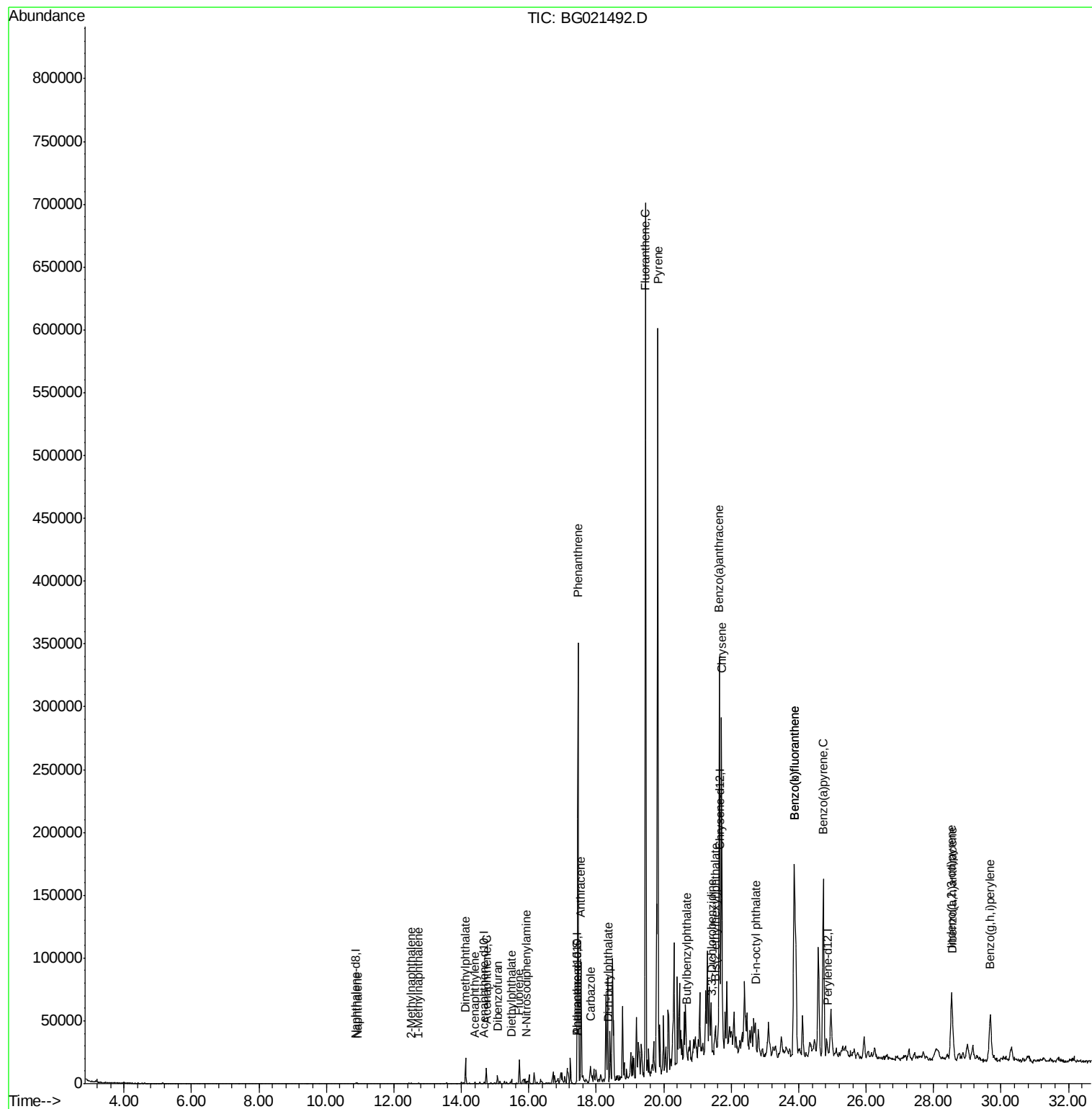
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	23.86	252	179560	1446.77	ng/ul	96
91) Benzo(a)pyrene	24.73	252	149736	1220.77	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.53	276	83967	602.35	ng/ul	95
93) Dibenzo(a,h)anthracene	28.55	278	9698	81.78	ng/ul#	89
94) Benzo(g,h,i)perylene	29.68	276	70288	613.17	ng/ul	98

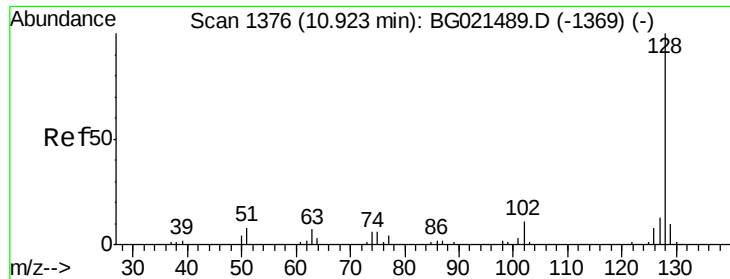
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 13.16 ng/ul

RT: 10.92 min Scan# 1375

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

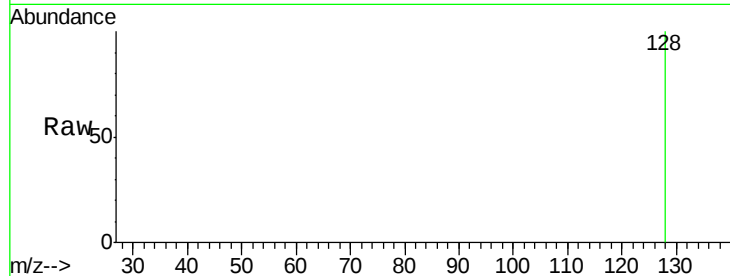
Tgt Ion:128 Resp: 681

Ion Ratio Lower Upper

128 100

129 0.0 8.3 12.5#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.92

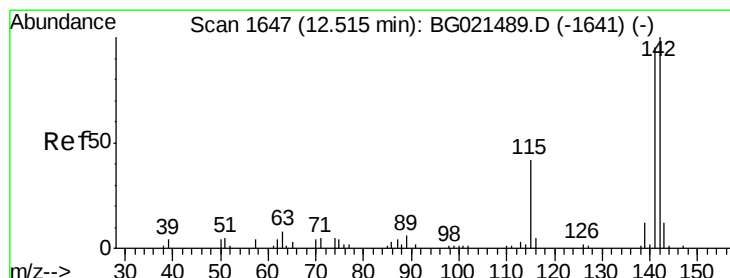
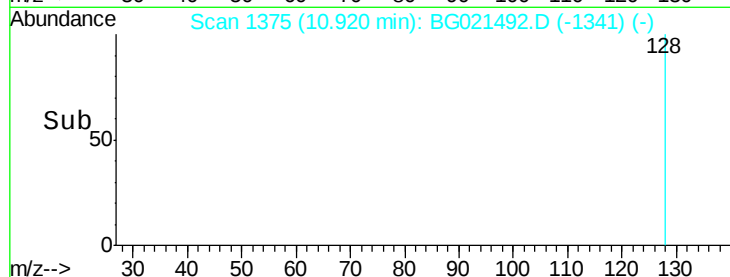
400

200

0

10.90 10.92 10.94

Time-->



#34

2-Methylnaphthalene

Concen: 3.57 ng/ul

RT: 12.52 min Scan# 1647

Delta R.T. 0.00 min

Lab File: BG021492.D

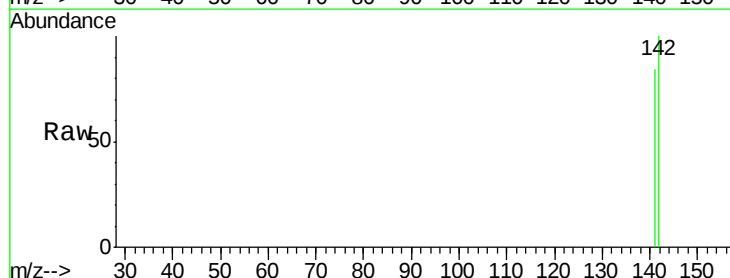
Acq: 24 Mar 2016 19:43

Tgt Ion:142 Resp: 137

Ion Ratio Lower Upper

142 100

141 84.3 71.3 106.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.52

250

200

150

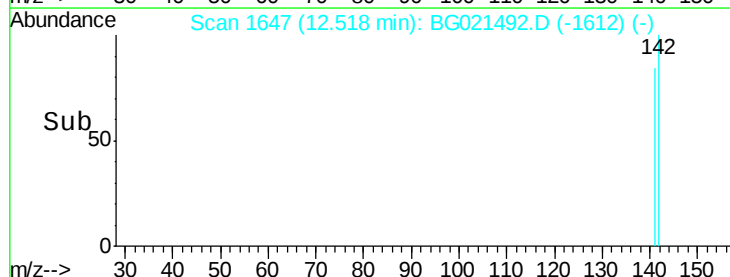
100

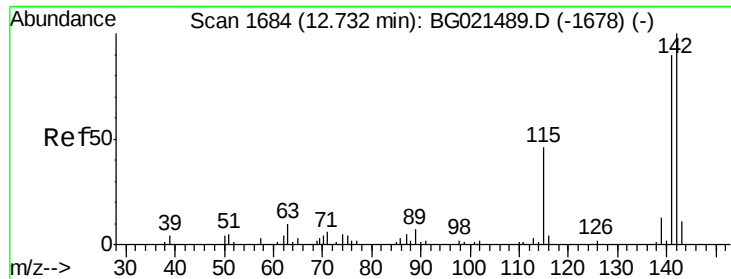
50

0

12.50 12.51 12.52

Time-->





#35

1-Methylnaphthalene

Concen: 6.68 ng/ul

RT: 12.73 min Scan# 1683

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

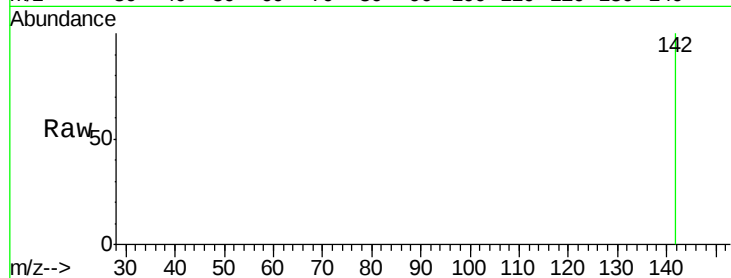
Tgt Ion:142 Resp: 249

Ion Ratio Lower Upper

142 100

141 0.0 77.0 115.4#

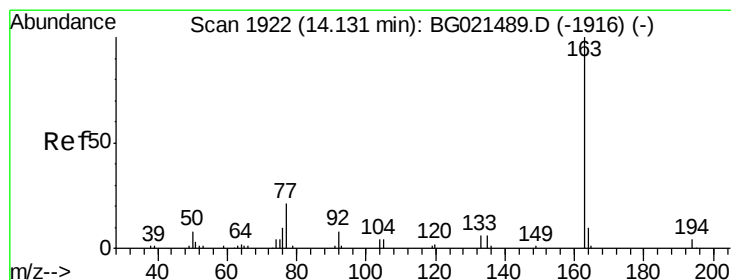
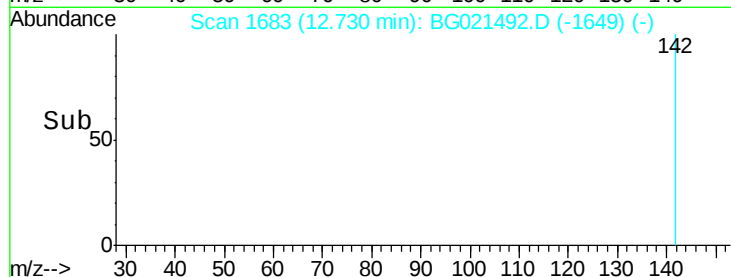
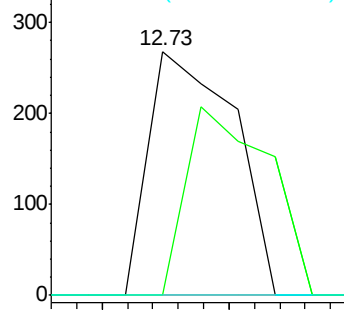
116 0.0 4.2 6.4#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#45

Dimethylphthalate

Concen: 280.44 ng/ul

RT: 14.12 min Scan# 1920

Delta R.T. -0.01 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

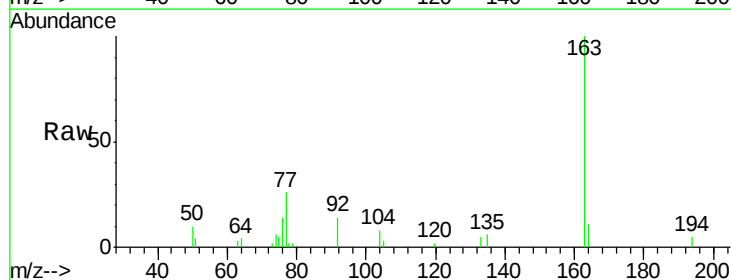
Tgt Ion:163 Resp: 13806

Ion Ratio Lower Upper

163 100

194 4.8 3.9 5.9

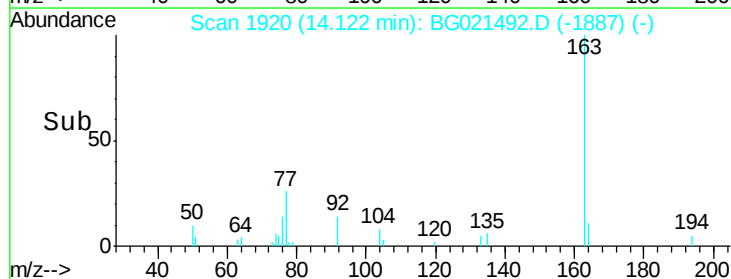
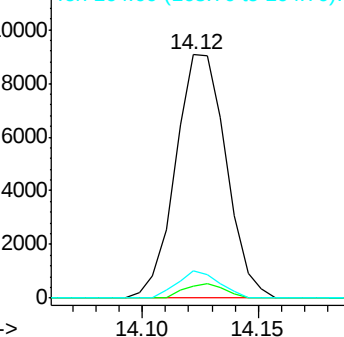
164 11.0 8.7 13.1

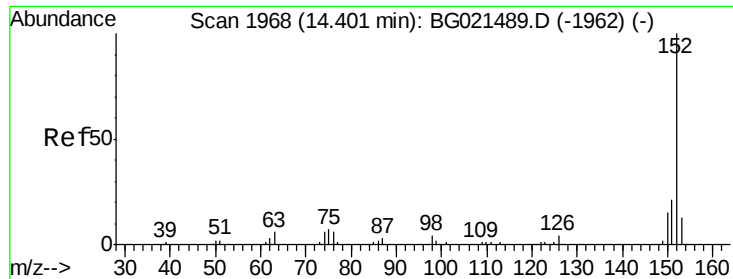


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 28.38 ng/ul

RT: 14.40 min Scan# 1968

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampled :

A4T45MS

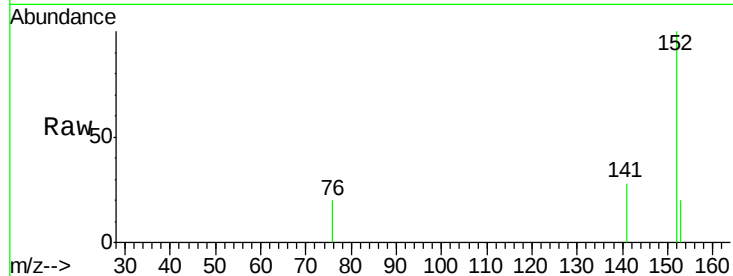
Tgt Ion:152 Resp: 1642

Ion Ratio Lower Upper

152 100

151 0.0 17.3 25.9#

153 19.6 11.1 16.7#

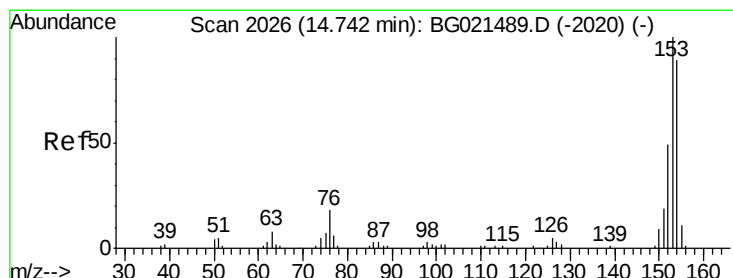
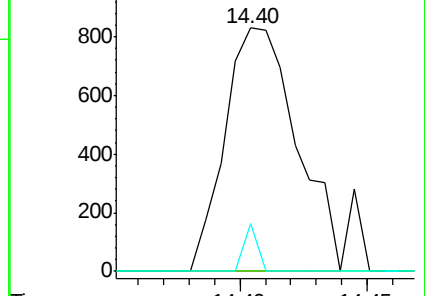
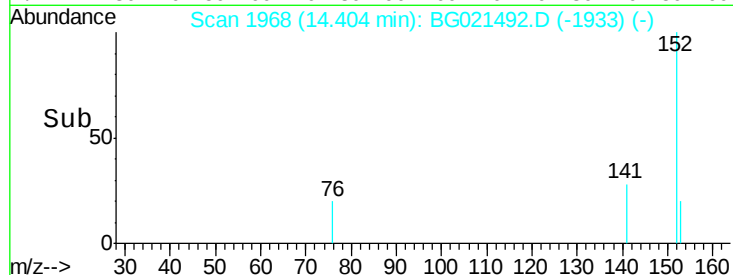


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

Time-->



#50

Acenaphthene

Concen: 140.39 ng/ul

RT: 14.74 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

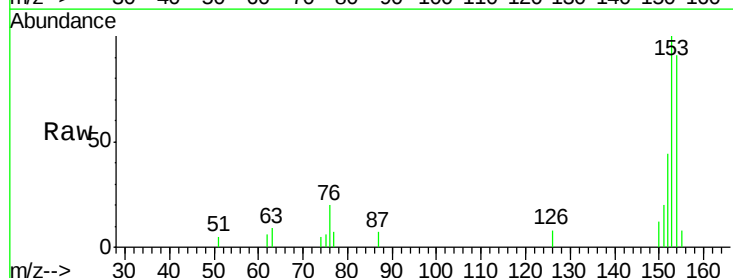
Tgt Ion:153 Resp: 5603

Ion Ratio Lower Upper

153 100

152 43.7 36.5 54.7

154 91.3 67.3 100.9

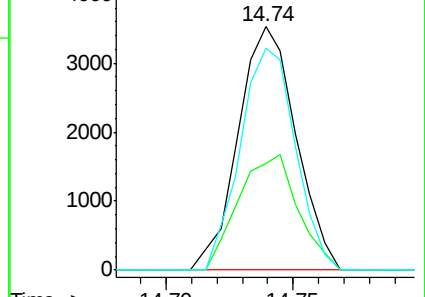
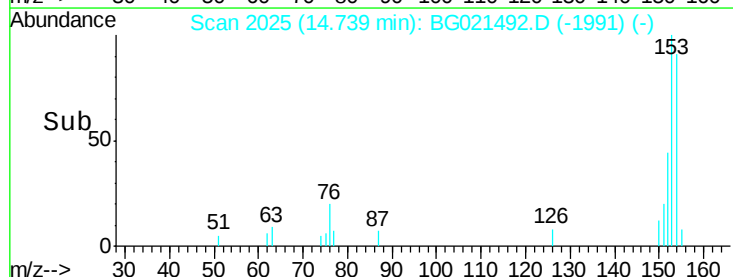


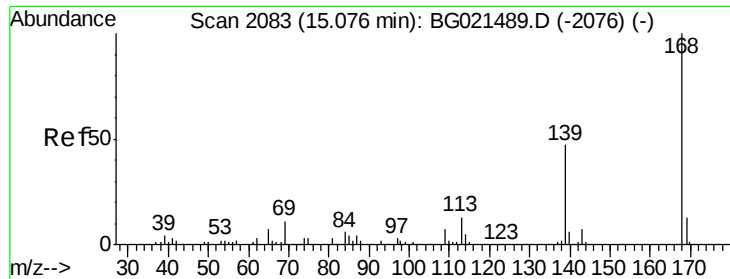
Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

Time-->





#54

Dibenzenofuran

Concen: 70.69 ng/ul

RT: 15.07 min Scan# 2082

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

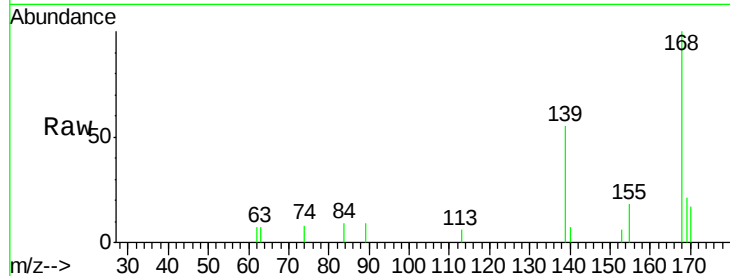
A4T45MS

Tgt Ion:168 Resp: 3952

Ion Ratio Lower Upper

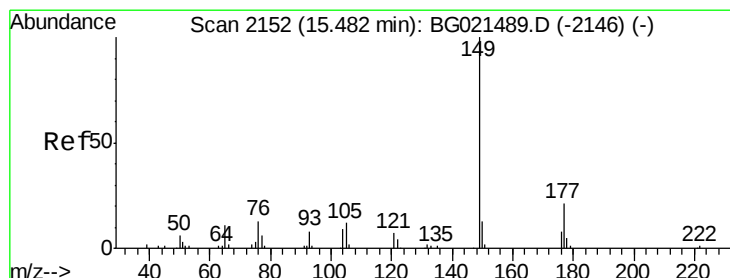
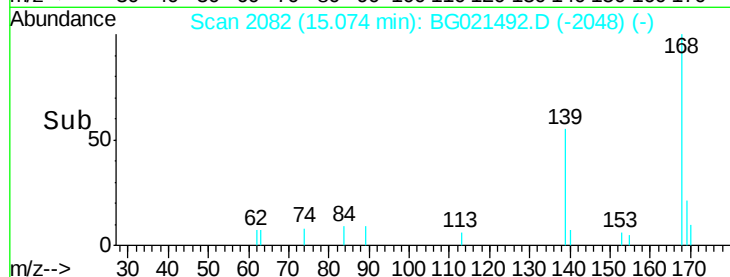
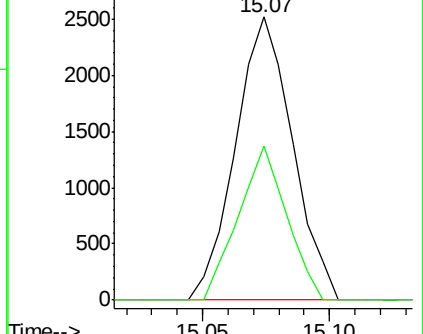
168 100

139 54.6 35.2 52.8#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#57

Diethylphthalate

Concen: 4.43 ng/ul

RT: 15.48 min Scan# 2151

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

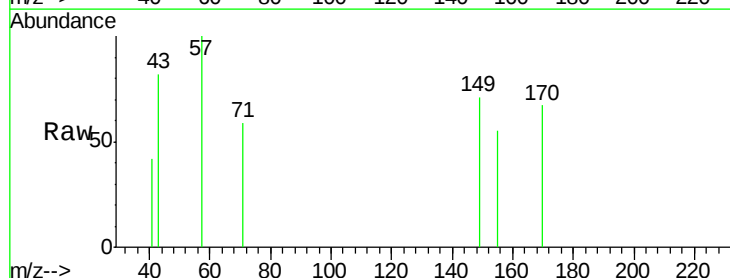
Tgt Ion:149 Resp: 233

Ion Ratio Lower Upper

149 100

177 0.0 17.4 26.2#

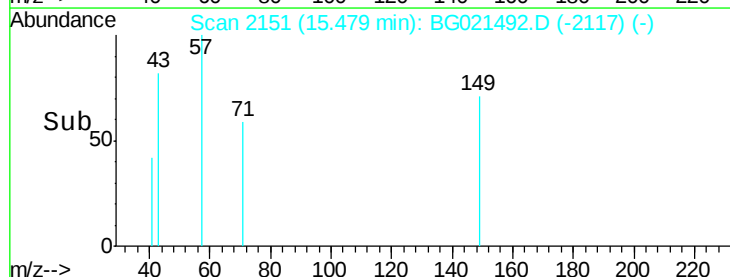
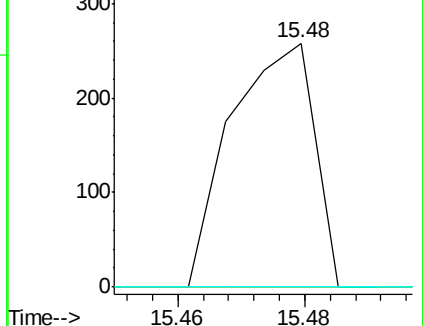
150 0.0 10.2 15.2#

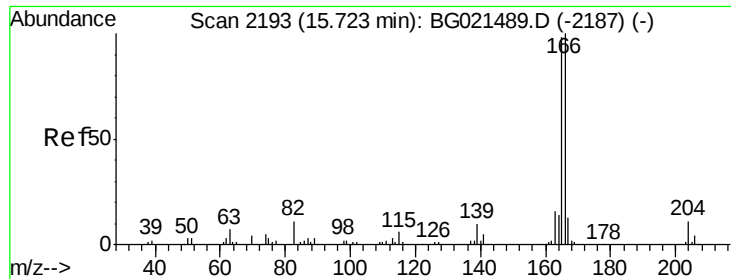


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E





#59

Fluorene

Concen: 172.56 ng/ul

RT: 15.72 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

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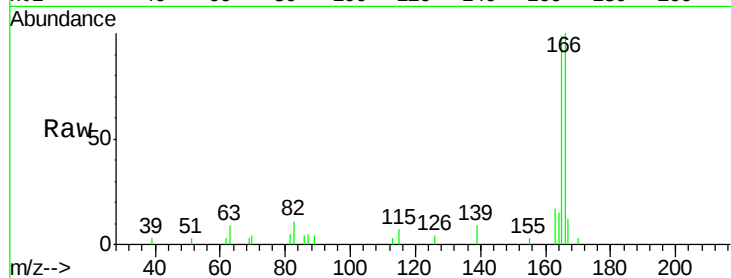
Tgt Ion:166 Resp: 8435

Ion Ratio Lower Upper

166 100

165 98.6 81.1 121.7

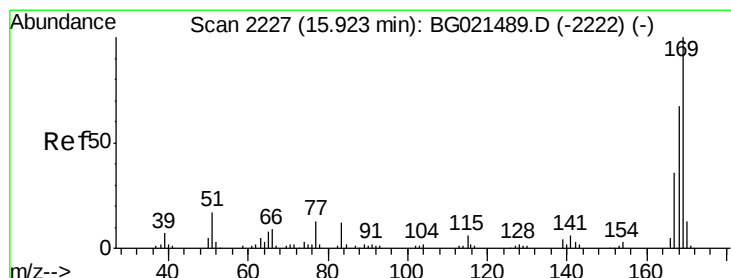
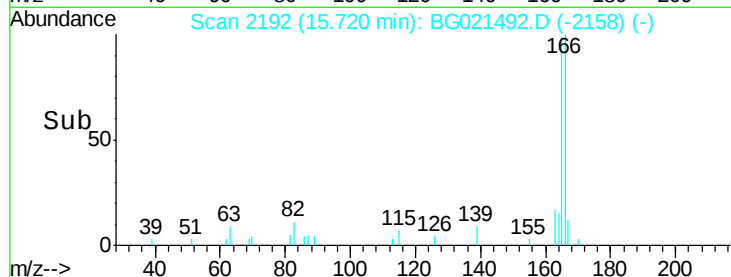
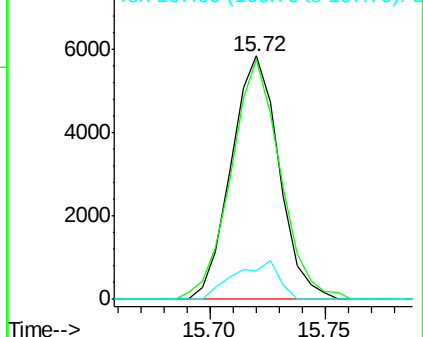
167 11.6 10.6 16.0



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



#65

N-Nitrosodiphenylamine

Concen: 4.83 ng/ul

RT: 15.93 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

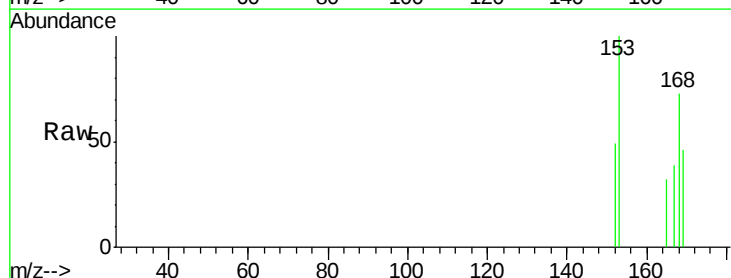
Tgt Ion:169 Resp: 256

Ion Ratio Lower Upper

169 100

168 158.1 51.2 76.8#

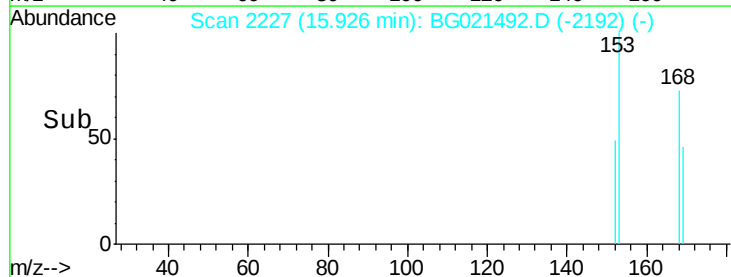
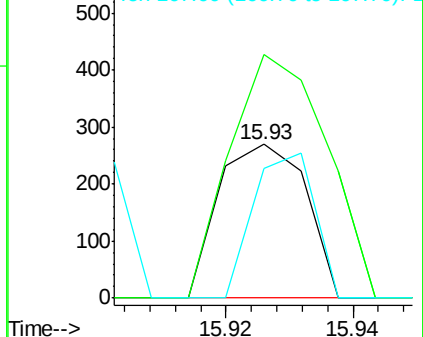
167 84.4 28.6 43.0#

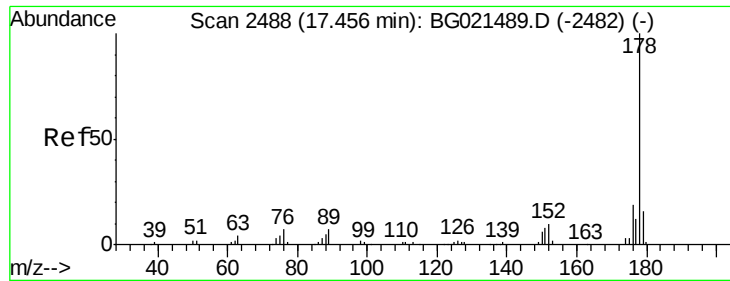


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 2135.00 ng/ul

RT: 17.46 min Scan# 2488

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

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A4T45MS

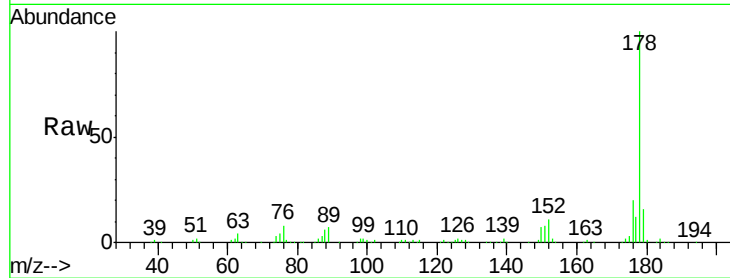
Tgt Ion:178 Resp: 206871

Ion Ratio Lower Upper

178 100

179 15.8 11.8 17.8

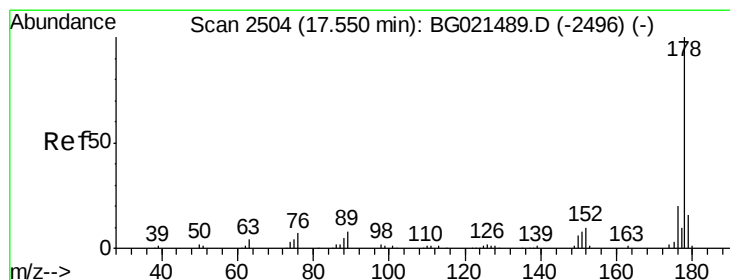
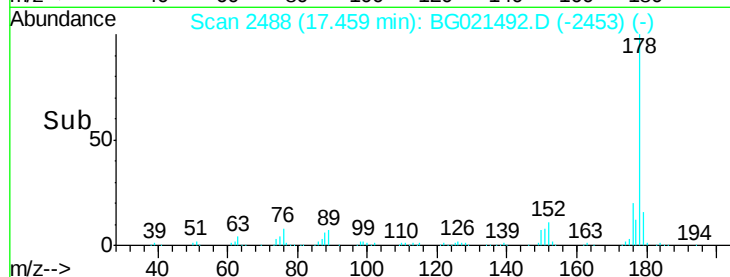
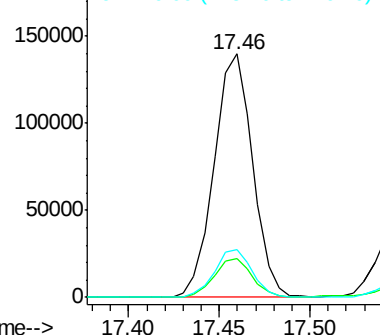
176 19.6 14.8 22.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 611.46 ng/ul

RT: 17.55 min Scan# 2503

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

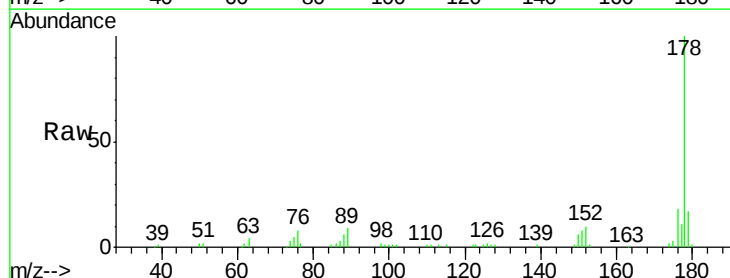
Tgt Ion:178 Resp: 60285

Ion Ratio Lower Upper

178 100

179 16.8 12.9 19.3

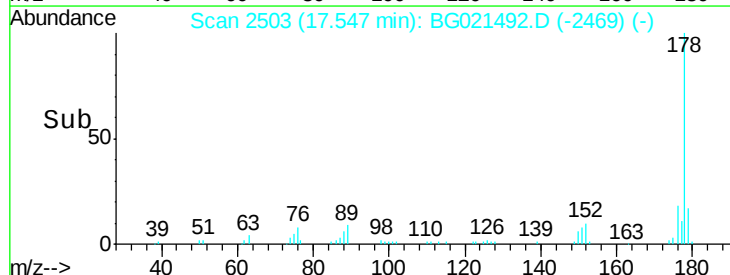
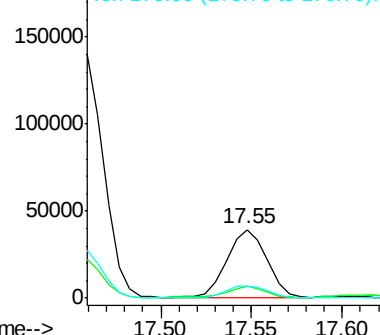
176 18.2 15.6 23.4

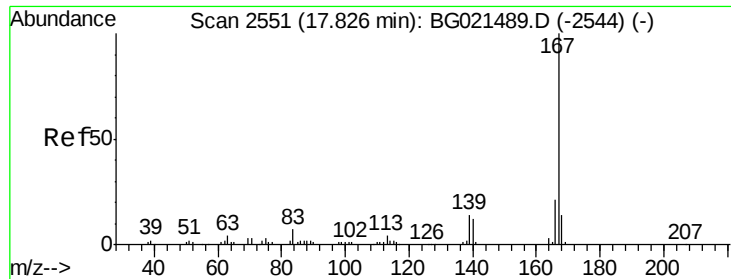


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 76.11 ng/ul

RT: 17.83 min Scan# 2551

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

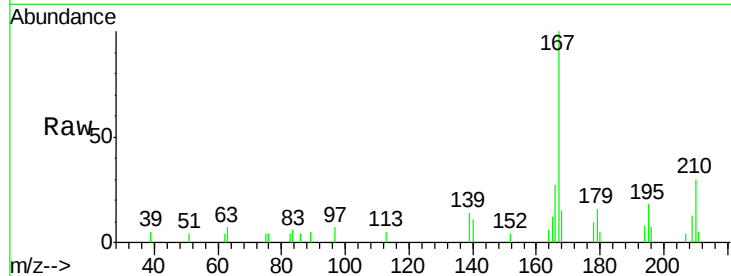
Tgt Ion:167 Resp: 6492

Ion Ratio Lower Upper

167 100

166 26.9 19.0 28.4

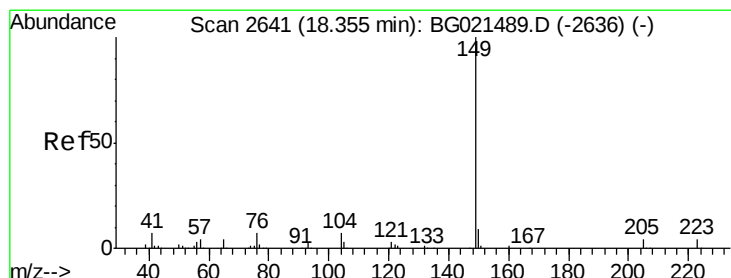
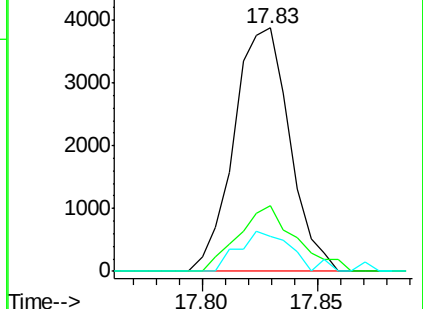
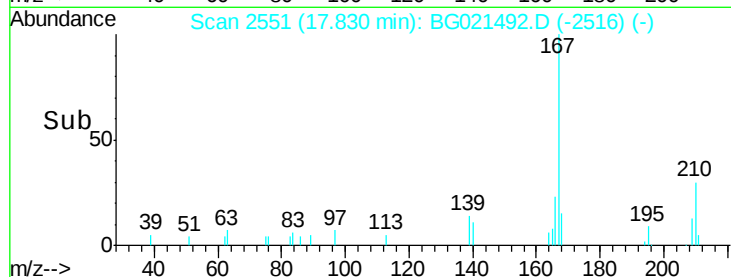
139 14.4 12.2 18.4



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#76

Di-n-butylphthalate

Concen: 10.43 ng/ul

RT: 18.36 min Scan# 2641

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

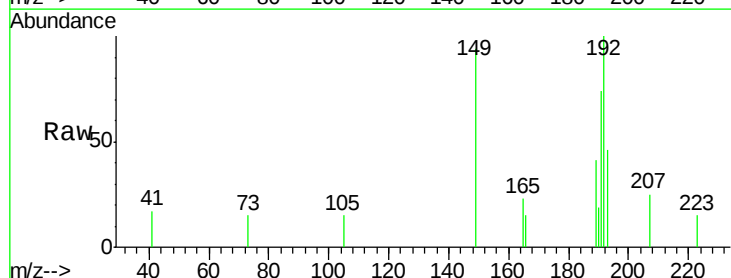
Tgt Ion:149 Resp: 1148

Ion Ratio Lower Upper

149 100

150 0.0 7.5 11.3#

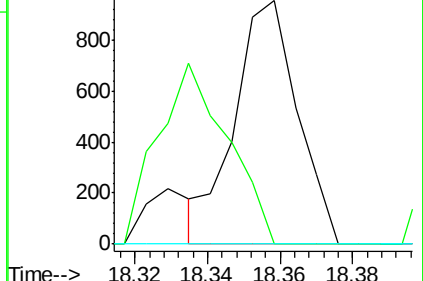
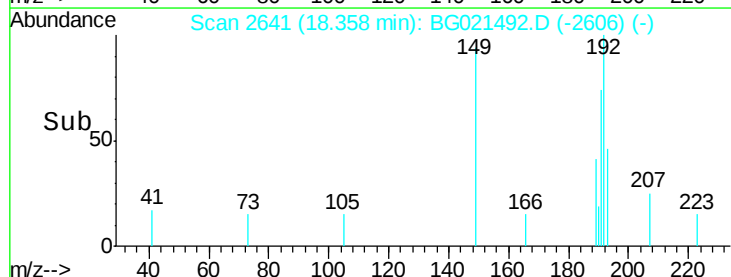
104 0.0 5.4 8.2#

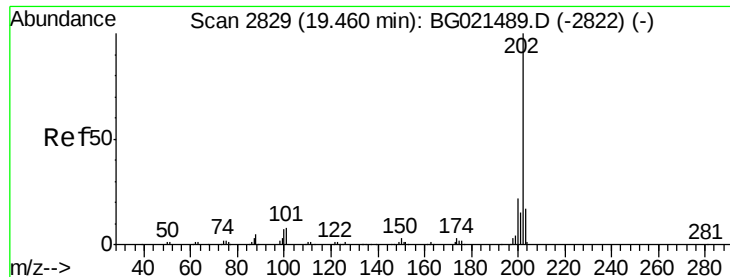


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#77

Fluoranthene

Concen: 3630.58 ng/ul

RT: 19.46 min Scan# 2829

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

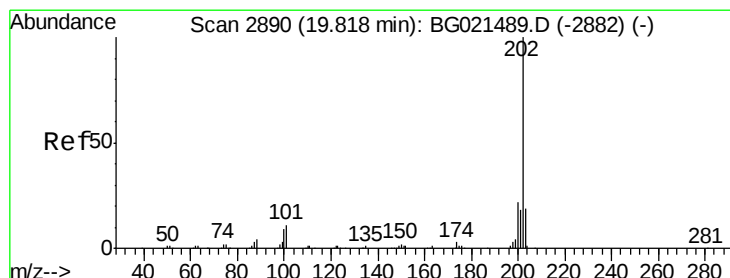
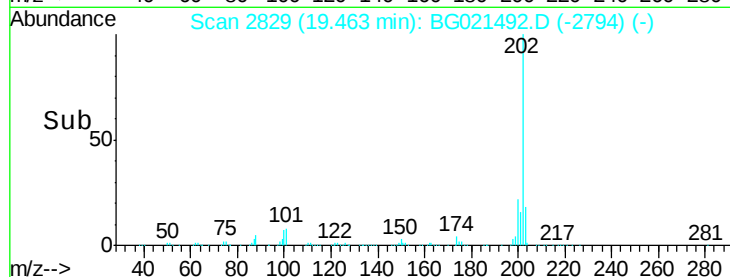
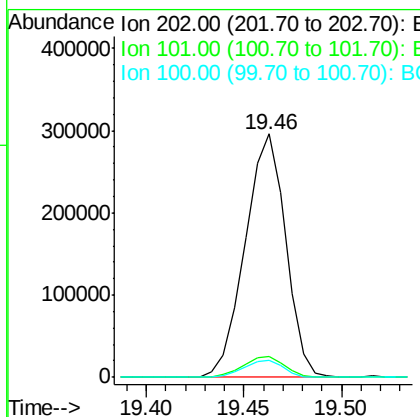
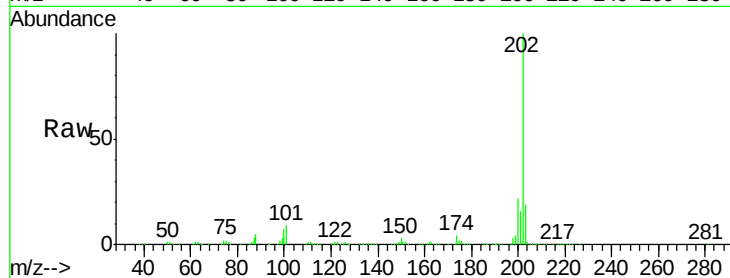
Instrument :

BNA_G

ClientSampleId :

A4T45MS

Tgt Ion:	202	Resp:	424540
Ion Ratio	Lower	Upper	
202	100		
101	8.6	8.9	13.3#
100	7.1	7.0	10.4



#80

Pyrene

Concen: 2960.27 ng/ul

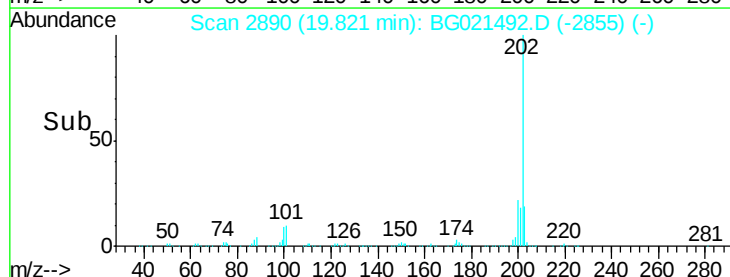
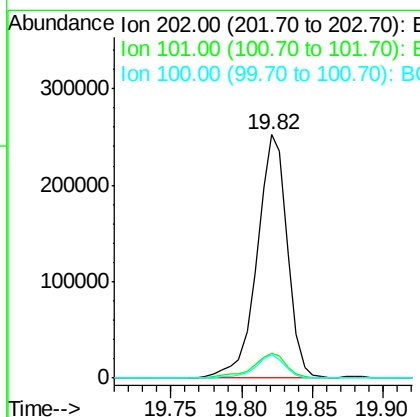
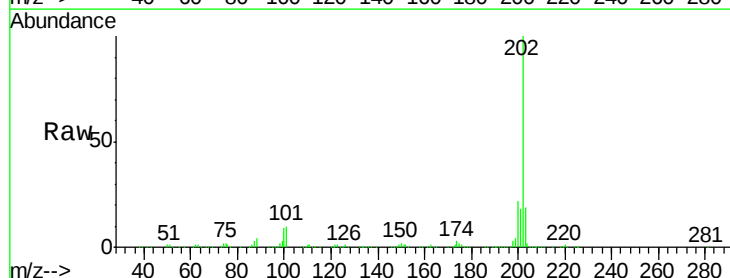
RT: 19.82 min Scan# 2890

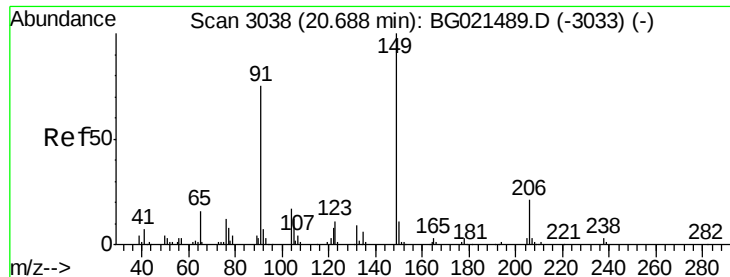
Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Tgt Ion:	202	Resp:	378869
Ion Ratio	Lower	Upper	
202	100		
101	10.1	9.8	14.8
100	9.4	9.3	13.9

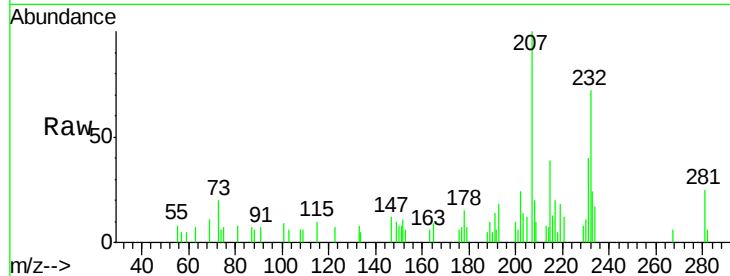




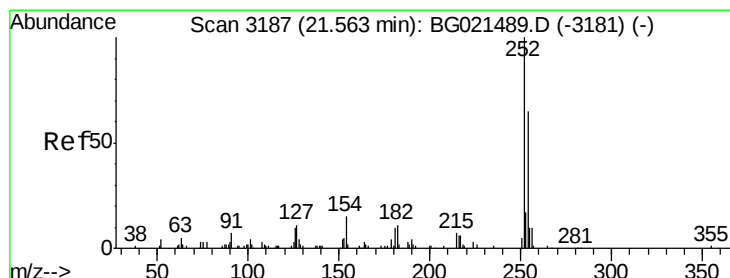
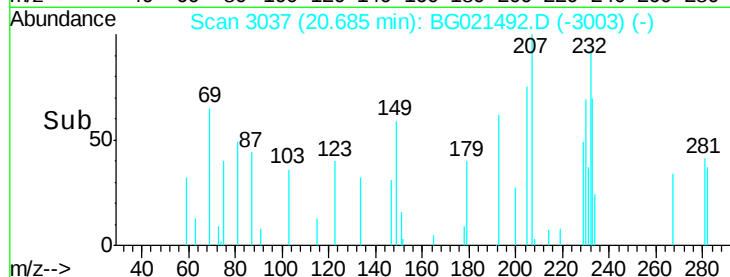
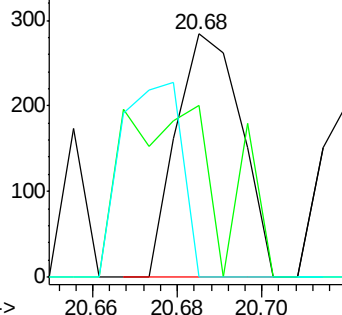
#81
Butylbenzylphthalate
Concen: 5.59 ng/ul
RT: 20.68 min Scan# 3037
Delta R.T. -0.00 min
Lab File: BG021492.D
Acq: 24 Mar 2016 19:43

Instrument :
BNA_G
ClientSampleId :
A4T45MS

Tgt Ion:149 Resp: 302
Ion Ratio Lower Upper
149 100
91 70.8 65.8 98.8
206 0.0 15.5 23.3#

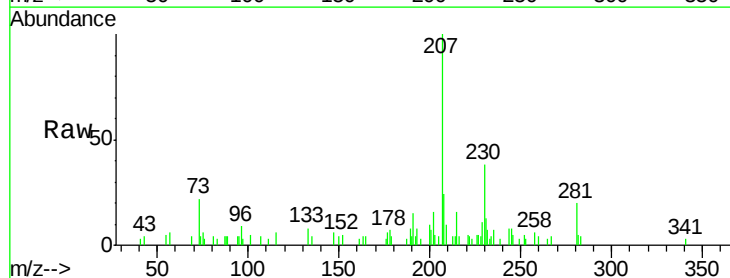


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BG
Ion 206.00 (205.70 to 206.70): E

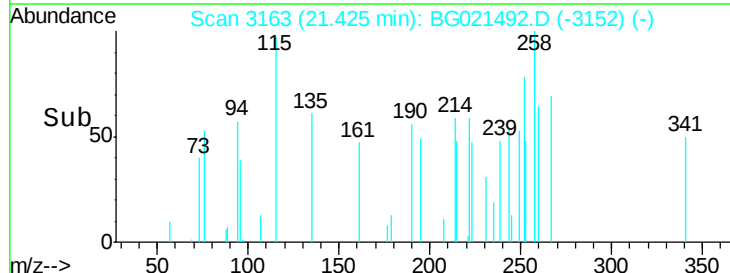
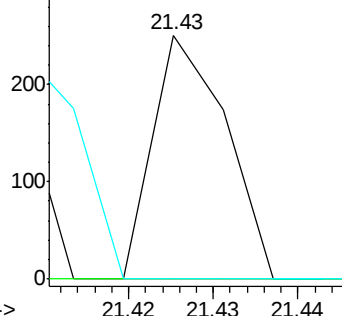


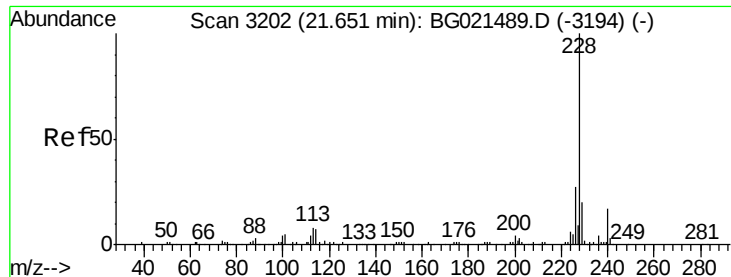
#82
3,3'-Dichlorobenzidine
Concen: 3.37 ng/ul
RT: 21.43 min Scan# 3163
Delta R.T. -0.14 min
Lab File: BG021492.D
Acq: 24 Mar 2016 19:43

Tgt Ion:252 Resp: 150
Ion Ratio Lower Upper
252 100
254 0.0 52.8 79.2#
126 0.0 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 254.00 (253.70 to 254.70): E
Ion 126.00 (125.70 to 126.70): E

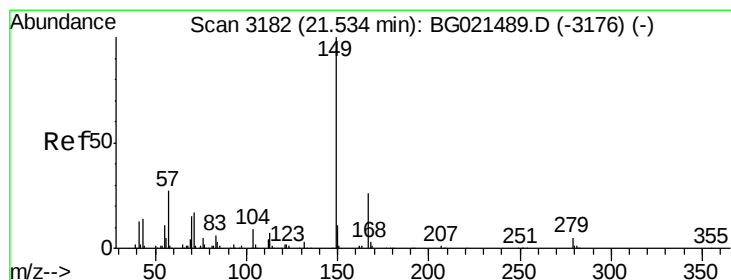
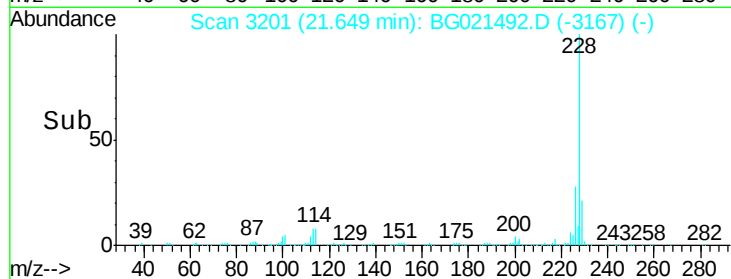
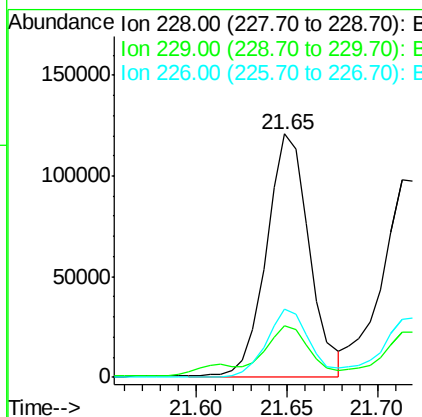
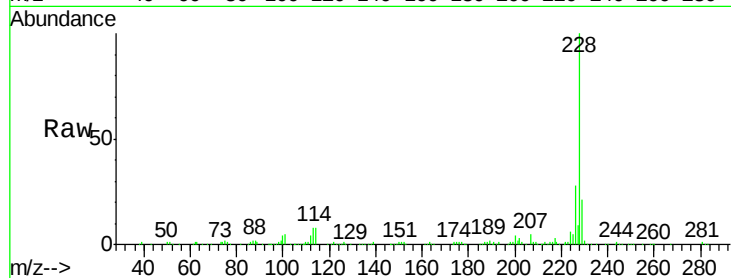




#83
Benzo(a)anthracene
Concen: 1536.10 ng/u1
RT: 21.65 min Scan# 3201
Delta R.T. -0.00 min
Lab File: BG021492.D
Acq: 24 Mar 2016 19:43

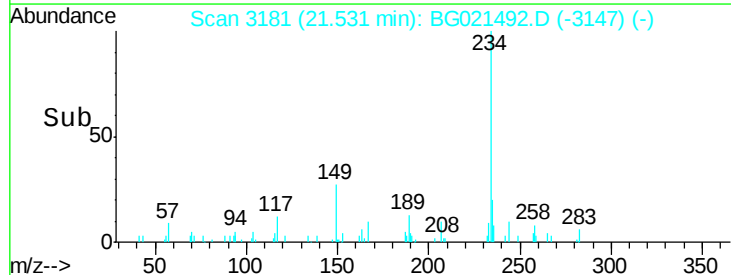
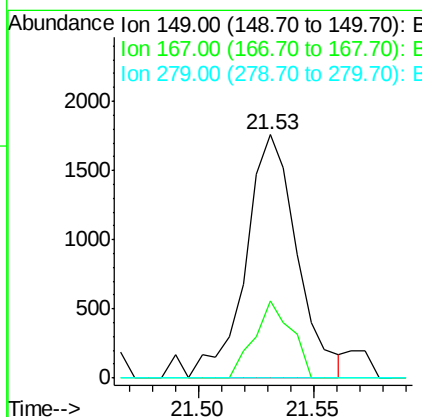
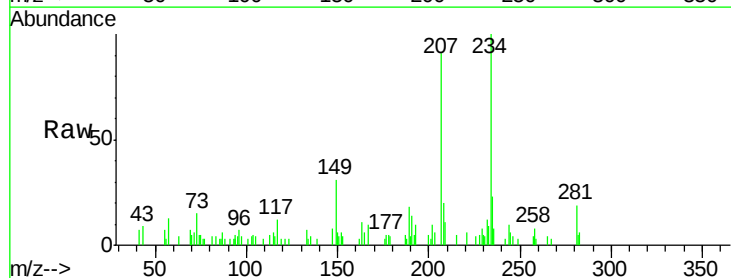
Instrument :
BNA_G
ClientSampleId :
A4T45MS

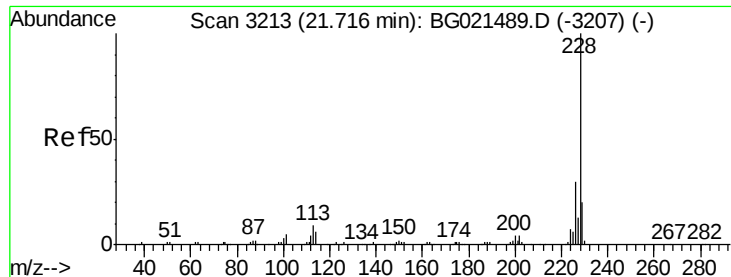
Tgt Ion:228 Resp: 199179
Ion Ratio Lower Upper
228 100
229 21.0 16.6 25.0
226 27.8 21.0 31.4



#84
Bis(2-ethylhexyl)phthalate
Concen: 34.44 ng/u1
RT: 21.53 min Scan# 3181
Delta R.T. -0.00 min
Lab File: BG021492.D
Acq: 24 Mar 2016 19:43

Tgt Ion:149 Resp: 2723
Ion Ratio Lower Upper
149 100
167 31.5 20.5 30.7#
279 0.0 3.7 5.5#





#85

Chrysene

Concen: 1421.31 ng/ul

RT: 21.71 min Scan# 3212

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

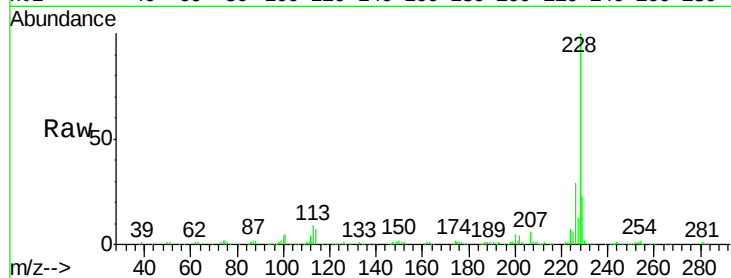
Tgt Ion:228 Resp: 174538

Ion Ratio Lower Upper

228 100

226 29.2 23.4 35.2

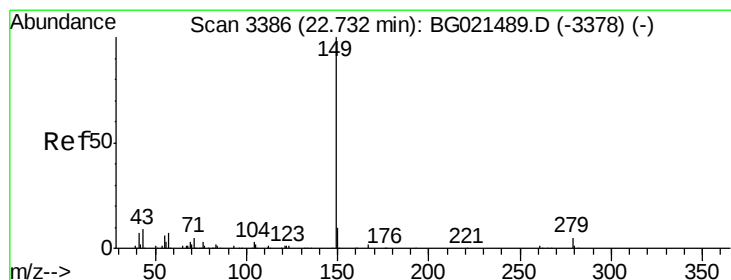
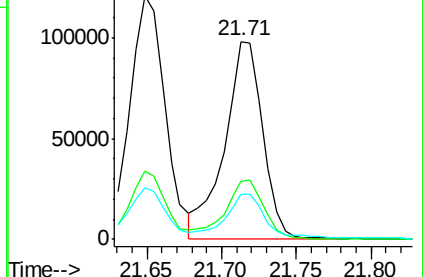
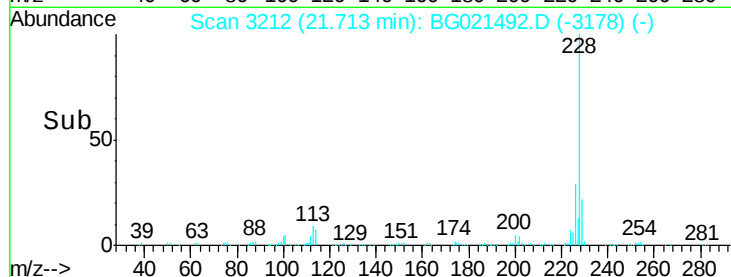
229 22.6 16.2 24.2



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



#87

Di-n-octyl phthalate

Concen: 2.10 ng/ul

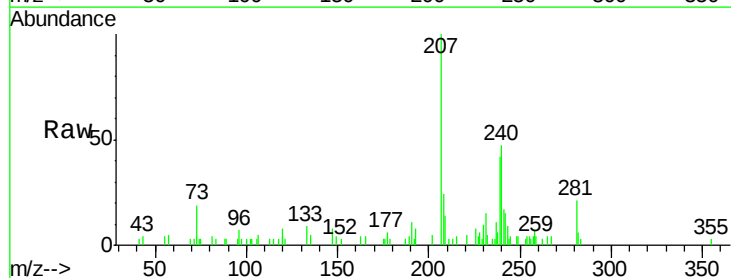
RT: 22.73 min Scan# 3385

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Tgt Ion:149 Resp: 280



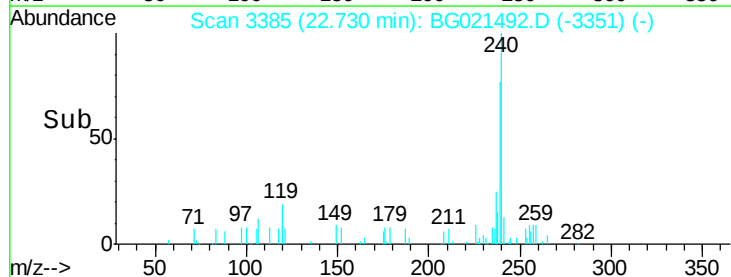
Abundance Ion 149.00 (148.70 to 149.70): E

300

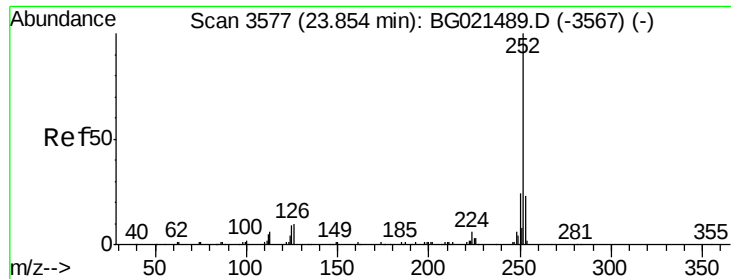
200

100

0



Time-->



#88

Benzo(b)fluoranthene

Concen: 1421.15 ng/ul

RT: 23.86 min Scan# 3578

Delta R.T. 0.01 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

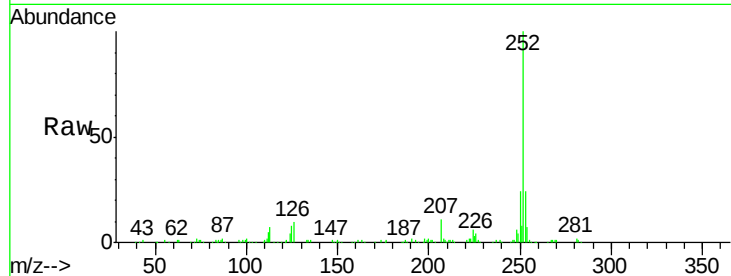
Tgt Ion:252 Resp: 179560

Ion Ratio Lower Upper

252 100

253 24.4 18.1 27.1

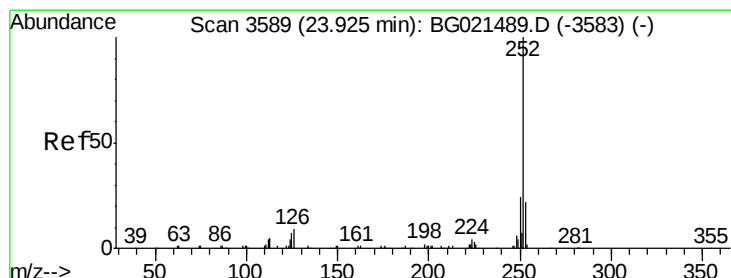
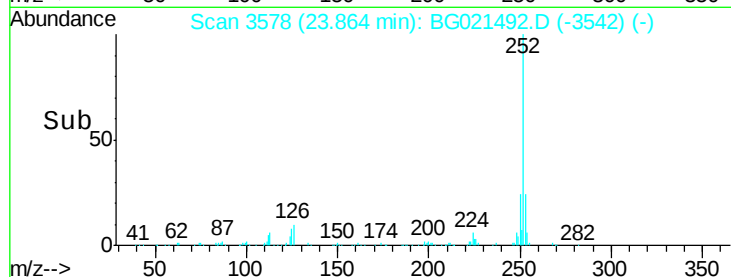
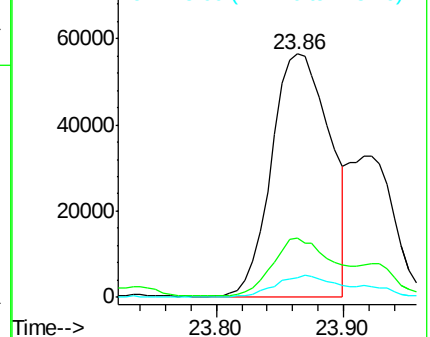
125 8.3 7.6 11.4



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



#89

Benzo(k)fluoranthene

Concen: 1446.77 ng/ul

RT: 23.86 min Scan# 3578

Delta R.T. -0.06 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

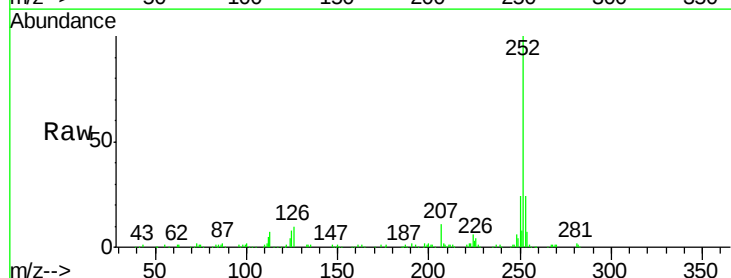
Tgt Ion:252 Resp: 179560

Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

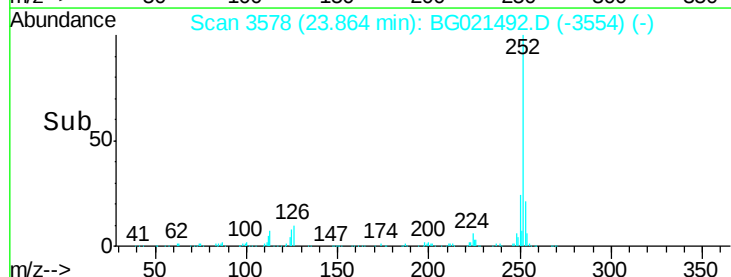
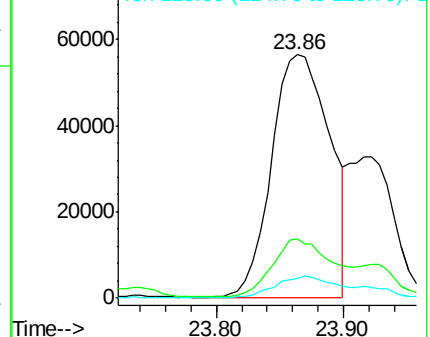
125 8.3 7.7 11.5

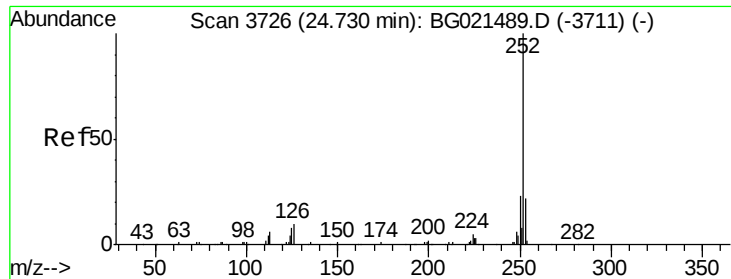


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 1220.77 ng/ul

RT: 24.73 min Scan# 3726

Delta R.T. 0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

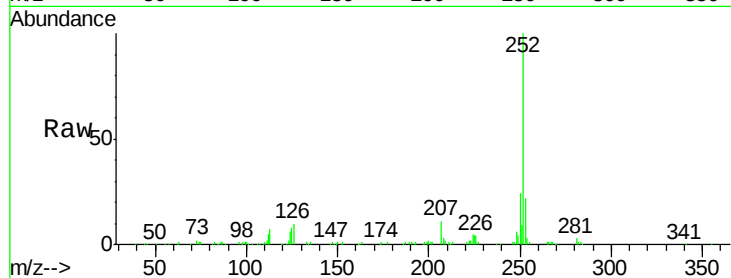
Tgt Ion:252 Resp: 149736

Ion Ratio Lower Upper

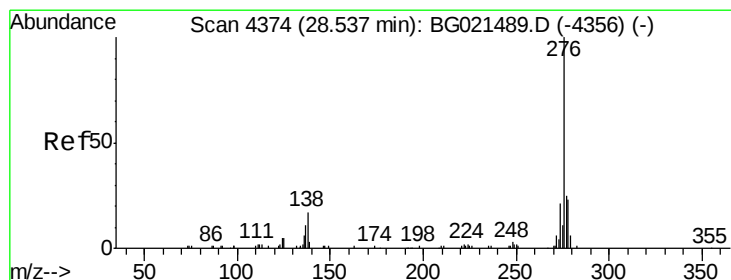
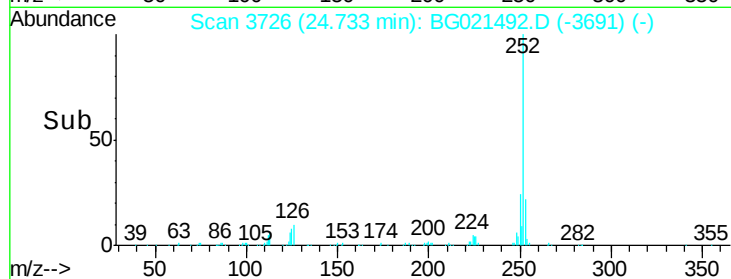
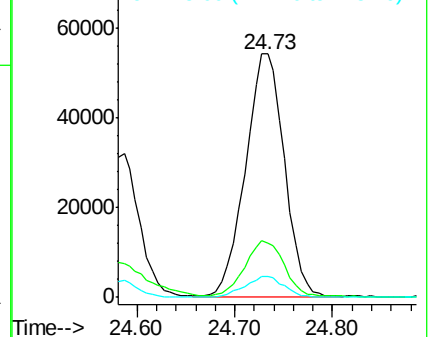
252 100

253 22.5 17.4 26.0

125 8.4 8.2 12.2



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 602.35 ng/ul

RT: 28.53 min Scan# 4373

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

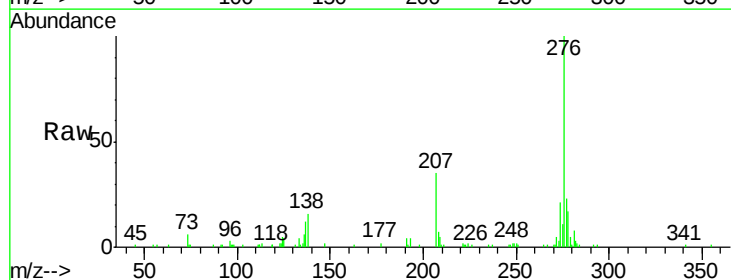
Tgt Ion:276 Resp: 83967

Ion Ratio Lower Upper

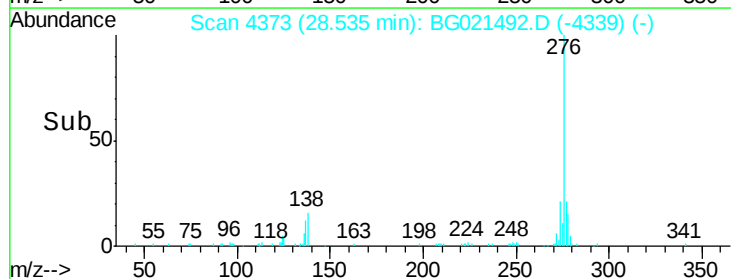
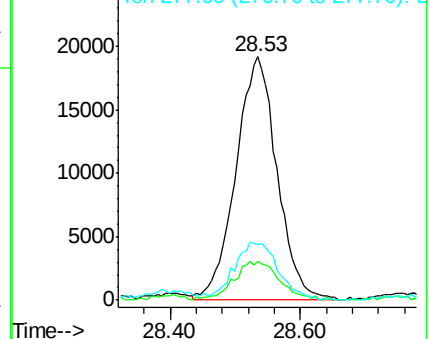
276 100

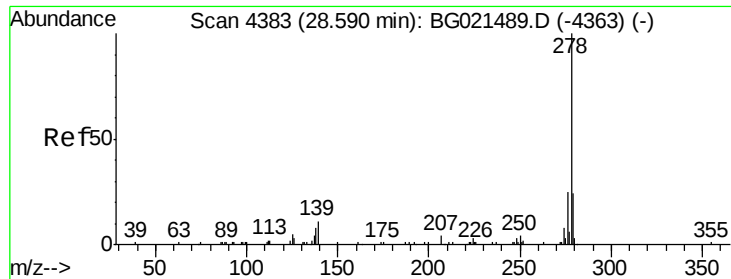
138 15.8 15.8 23.6

277 22.8 19.0 28.6



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





#93

Dibenzo(a,h)anthracene

Concen: 81.78 ng/ul

RT: 28.55 min Scan# 4376

Delta R.T. -0.04 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

Instrument :

BNA_G

ClientSampleId :

A4T45MS

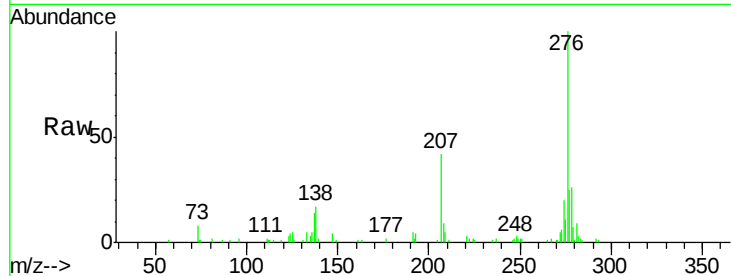
Tgt Ion:278 Resp: 9698

Ion Ratio Lower Upper

278 100

139 8.2 12.1 18.1#

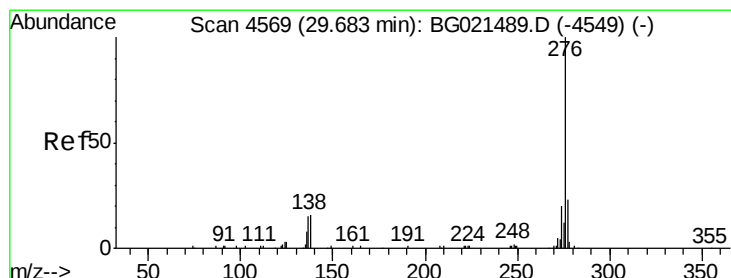
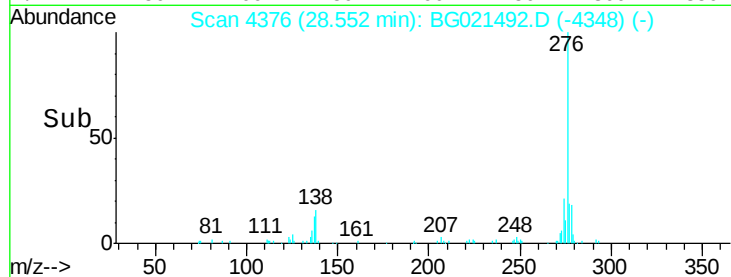
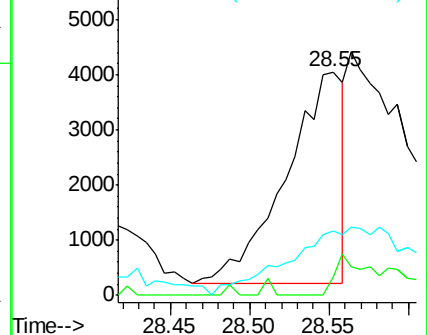
279 28.6 19.8 29.8



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



#94

Benzo(g,h,i)perylene

Concen: 613.17 ng/ul

RT: 29.68 min Scan# 4568

Delta R.T. -0.00 min

Lab File: BG021492.D

Acq: 24 Mar 2016 19:43

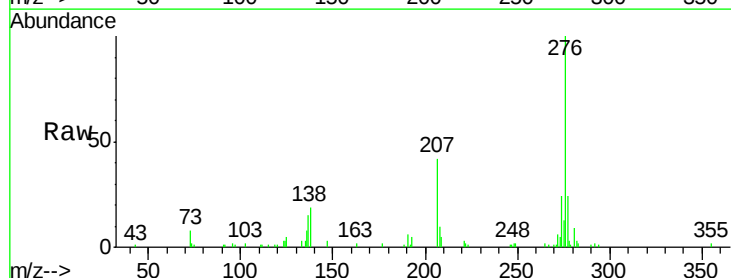
Tgt Ion:276 Resp: 70288

Ion Ratio Lower Upper

276 100

138 18.6 13.9 20.9

277 23.7 19.8 29.6



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

