

Data Path : Z:\HPCHEM1\BNA G\DATA\BG111617\
 Data File : BG031045.D
 Acq On : 16 Nov 2017 15:36
 Operator : SJ/JU
 Sample : SSTDICV020
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Nov 17 03:24:23 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG111617-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Nov 16 15:59:11 2017
 Response via : Initial Calibration

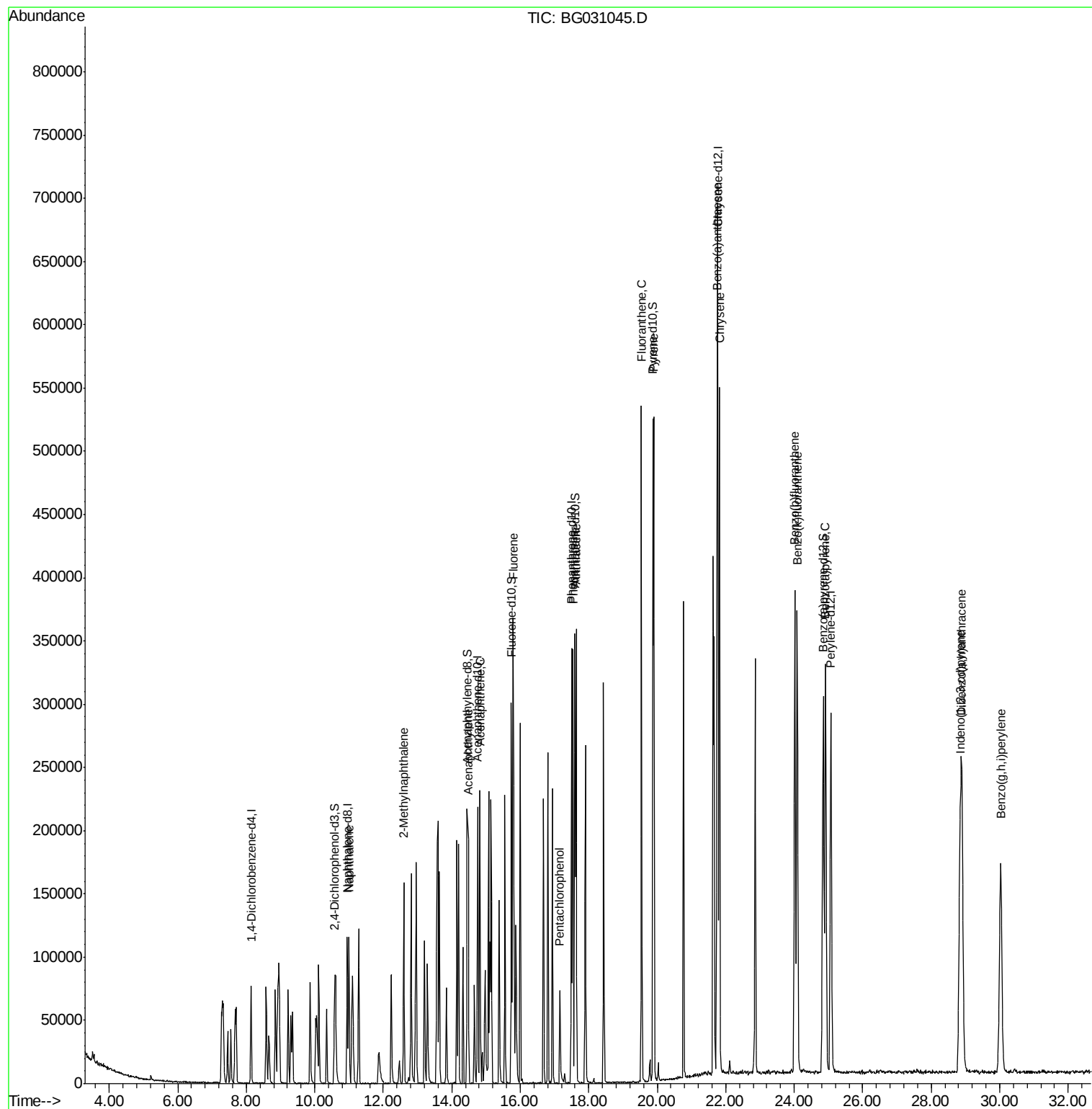
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	25079	20.00	ng/ul	0.00
2) Naphthalene-d8	10.95	136	108082	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.76	164	80320	20.00	ng/ul	0.00
12) Phenanthrene-d10	17.49	188	233641	20.00	ng/ul	0.00
18) Chrysene-d12	21.77	240	349585	20.00	ng/ul	0.00
23) Perylene-d12	25.07	264	357177	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 2,4-Dichlorophenol-d3	10.58	165	40046	19.64	ng/uL	0.00
7) Acenaphthylene-d8	14.45	160	169732	20.32	ng/ul	0.00
10) Fluorene-d10	15.74	176	134140	19.99	ng/ul	0.00
15) Anthracene-d10	17.59	188	229006	19.58	ng/ul	0.00
19) Pyrene-d10	19.87	212	318711	19.96	ng/ul	0.00
26) Benzo(a)pyrene-d12	24.84	264	348163	19.70	ng/ul	0.00
Target Compounds				Qvalue		
4) Naphthalene	11.00	128	102486	19.81	ng/ul	98
5) 2-Methylnaphthalene	12.60	142	84726	19.85	ng/ul	98
8) Acenaphthylene	14.48	152	150235	20.54	ng/ul	99
9) Acenaphthene	14.82	153	107016	20.27	ng/ul	97
11) Fluorene	15.80	166	135523	20.27	ng/ul	91
13) Pentachlorophenol	17.15	266	23719	17.40	ng/uL	93
14) Phenanthrene	17.54	178	248131	19.79	ng/ul	98
16) Anthracene	17.63	178	254918	20.02	ng/ul	97
17) Fluoranthene	19.54	202	367101	21.04	ng/ul#	83
20) Pyrene	19.90	202	374859	20.20	ng/ul#	80
21) Benzo(a)anthracene	21.75	228	430561	20.22	ng/ul	100
22) Chrysene	21.82	228	403325	19.91	ng/ul	100
24) Benzo(b)fluoranthene	24.02	252	433555	20.09	ng/ul#	93
25) Benzo(k)fluoranthene	24.09	252	421651	19.83	ng/ul#	94
27) Benzo(a)pyrene	24.91	252	414225	20.03	ng/ul#	93
28) Indeno(1,2,3-cd)pyrene	28.85	276	473009	20.06	ng/ul#	87
29) Dibenzo(a,h)anthracene	28.89	278	393223	20.14	ng/ul#	89
30) Benzo(g,h,i)perylene	30.03	276	393066	20.02	ng/ul#	86

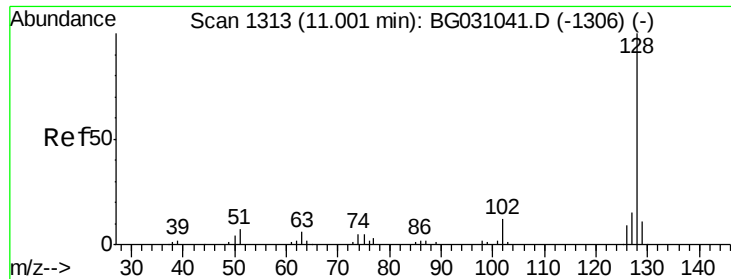
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Naphthalene

Concen: 19.81 ng/ul

RT: 11.00 min Scan# 1313

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

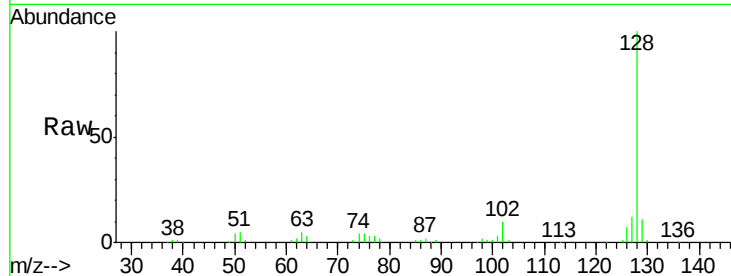
Tot Ion:128 Resp: 102486

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

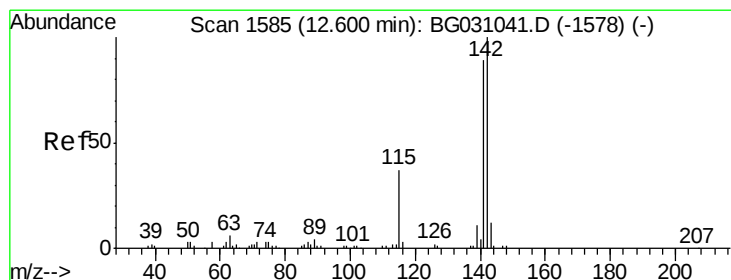
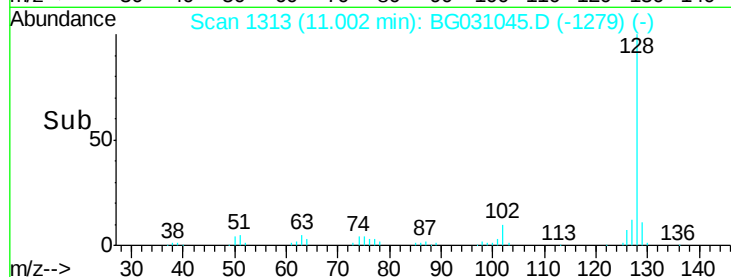
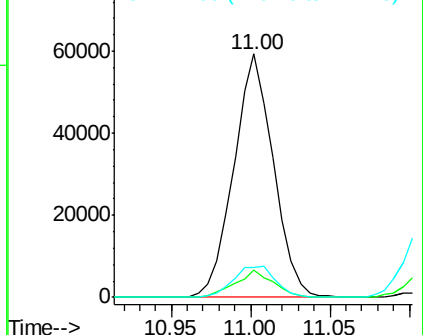
127 12.0 10.6 15.8



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



#5

2-Methylnaphthalene

Concen: 19.85 ng/ul

RT: 12.60 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BG031045.D

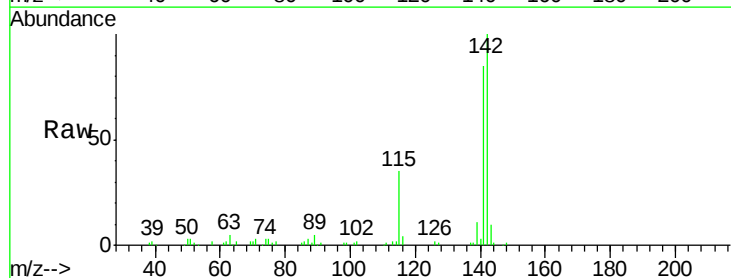
Acq: 16 Nov 2017 15:36

Tgt Ion:142 Resp: 84726

Ion Ratio Lower Upper

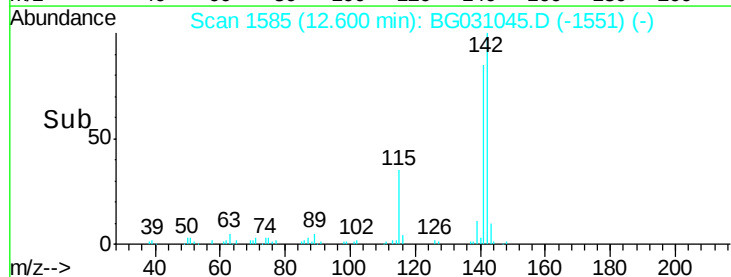
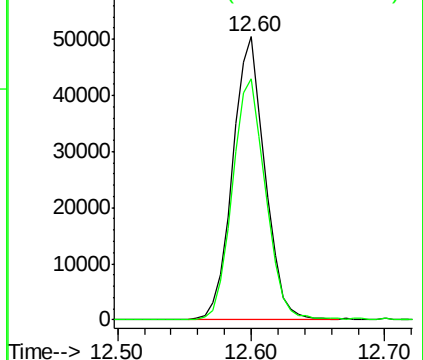
142 100

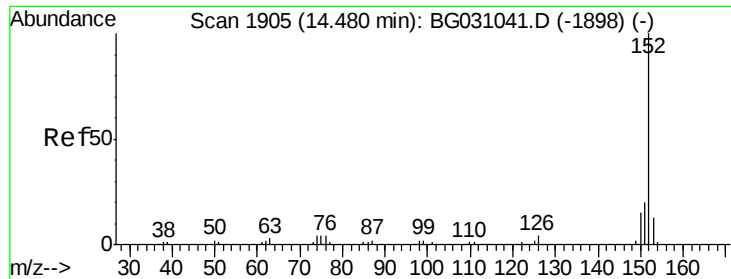
141 85.2 69.8 104.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#8

Acenaphthylene

Concen: 20.54 ng/ul

RT: 14.48 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

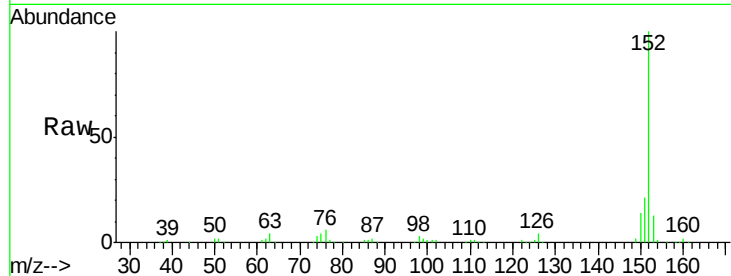
Tot Ion:152 Resp: 150235

Ion Ratio Lower Upper

152 100

151 21.2 17.5 26.3

153 13.5 10.6 16.0



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

120000

100000

80000

60000

40000

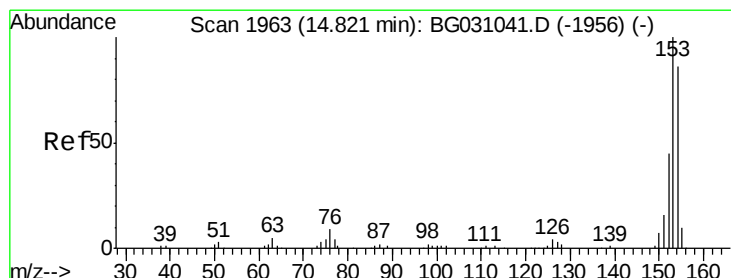
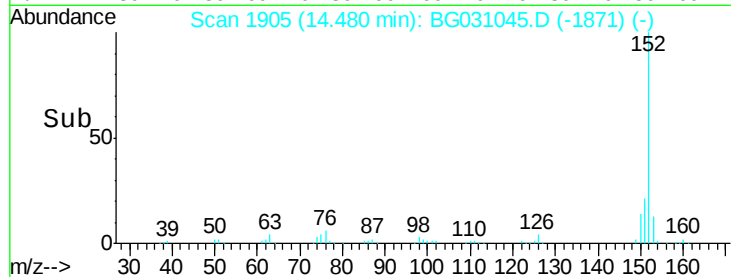
20000

0

14.48

14.40 14.45 14.50

Time-->



#9

Acenaphthene

Concen: 20.27 ng/ul

RT: 14.82 min Scan# 1963

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

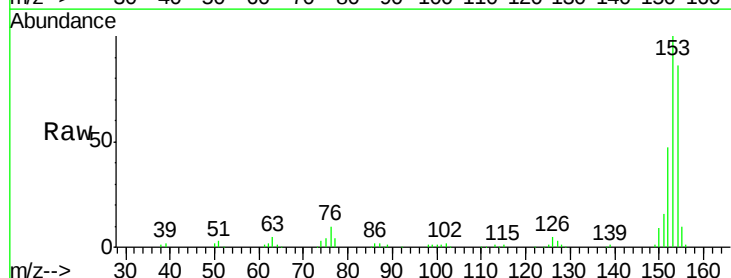
Tgt Ion:153 Resp: 107016

Ion Ratio Lower Upper

153 100

152 46.7 37.9 56.9

154 86.1 71.6 107.4



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

80000

60000

40000

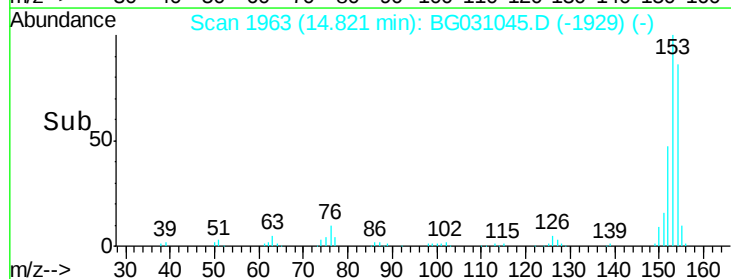
20000

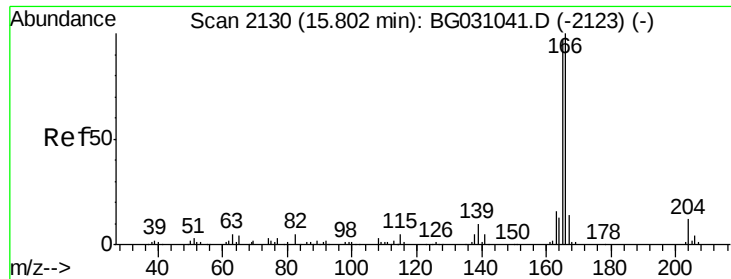
0

14.82

14.75 14.80 14.85

Time-->





#11

Fluorene

Concen: 20.27 ng/ul

RT: 15.80 min Scan# 2130

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

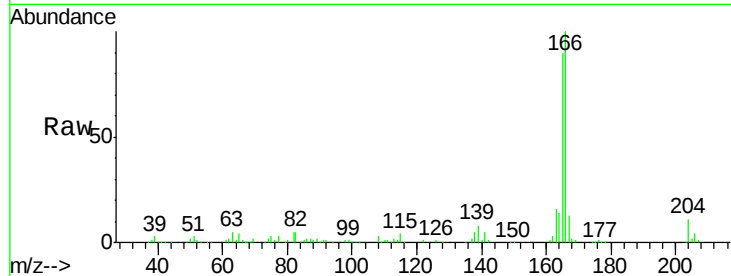
Tot Ion:166 Resp: 135523

Ion Ratio Lower Upper

166 100

165 90.4 80.0 120.0

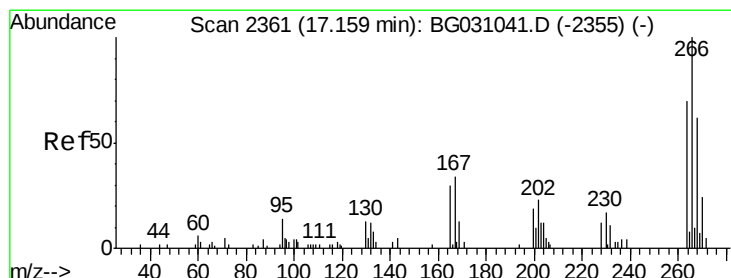
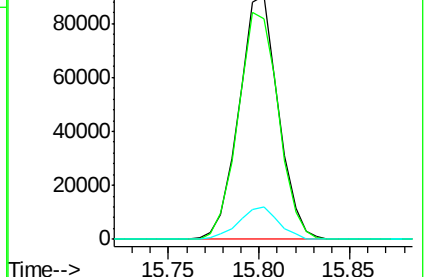
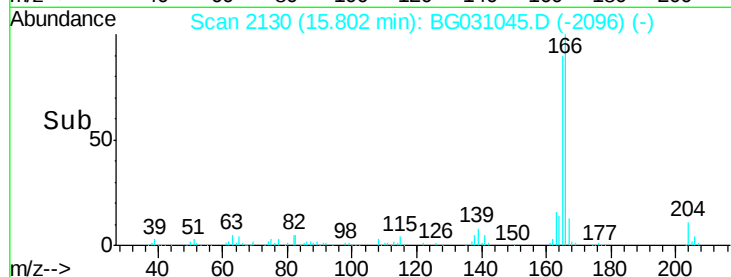
167 13.2 11.6 17.4



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



#13

Pentachlorophenol

Concen: 17.40 ng/uL

RT: 17.15 min Scan# 2360

Delta R.T. -0.01 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

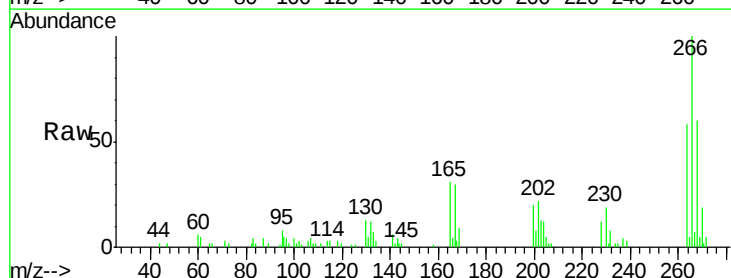
Tgt Ion:266 Resp: 23719

Ion Ratio Lower Upper

266 100

264 58.2 52.0 78.0

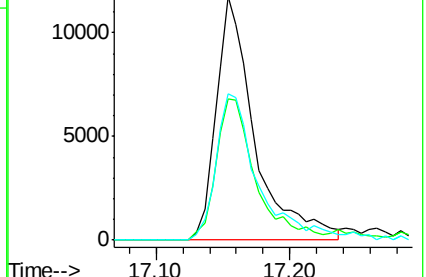
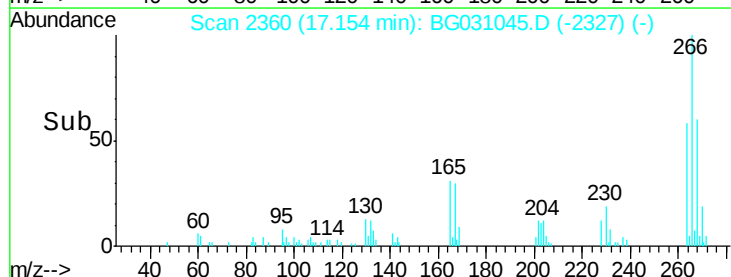
268 60.0 51.2 76.8

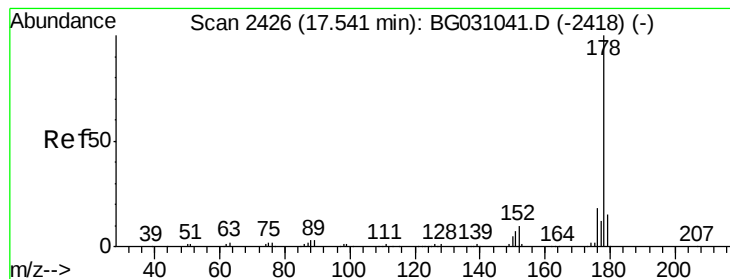


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#14

Phenanthrene

Concen: 19.79 ng/ul

RT: 17.54 min Scan# 2426

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

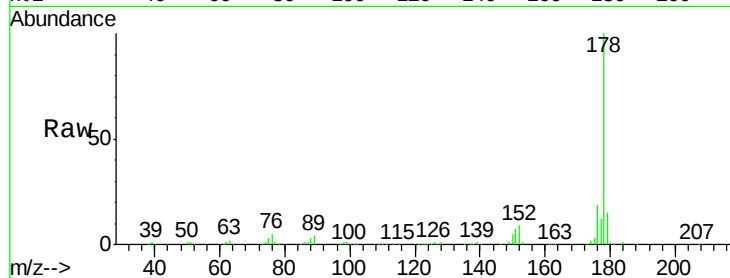
Tot Ion:178 Resp: 248131

Ion Ratio Lower Upper

178 100

179 15.5 12.2 18.4

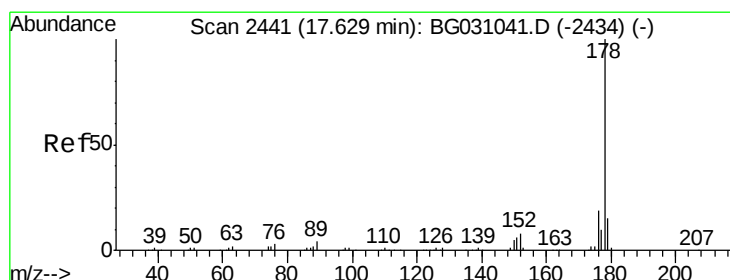
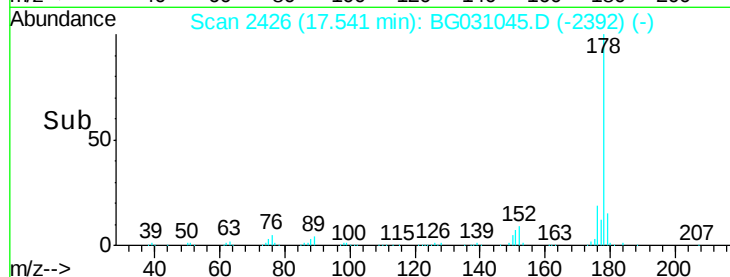
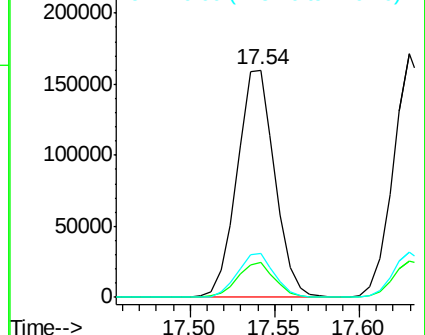
176 19.1 16.4 24.6



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



#16

Anthracene

Concen: 20.02 ng/ul

RT: 17.63 min Scan# 2441

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

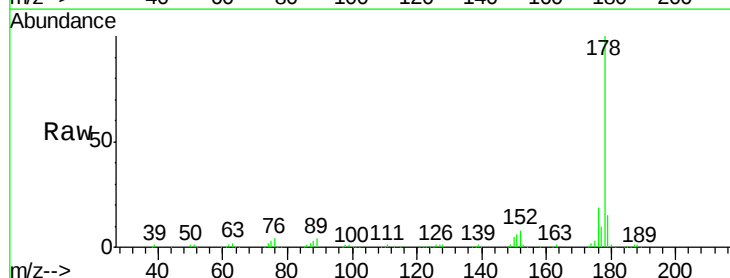
Tgt Ion:178 Resp: 254918

Ion Ratio Lower Upper

178 100

179 14.9 12.7 19.1

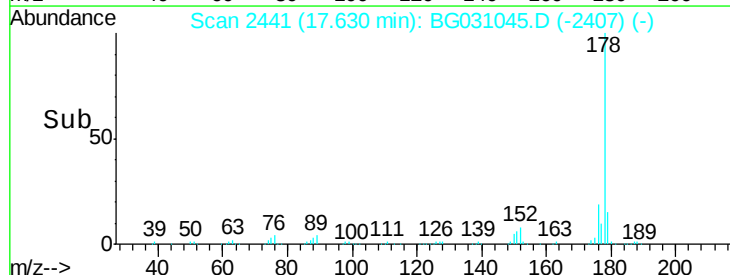
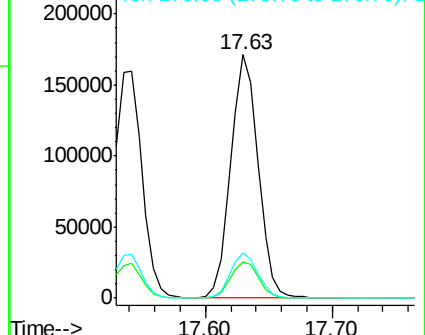
176 18.5 15.8 23.8

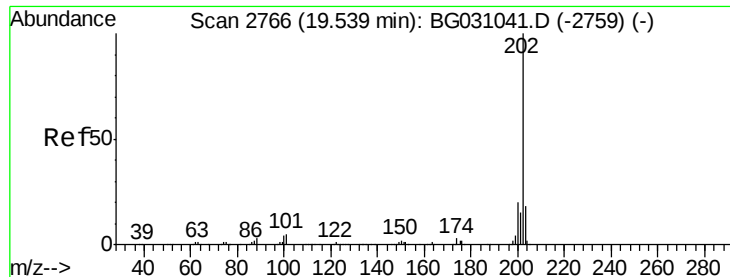


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

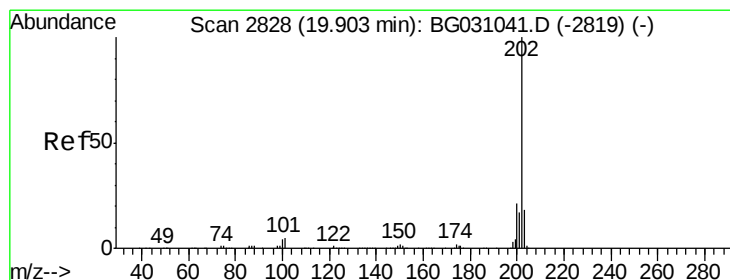
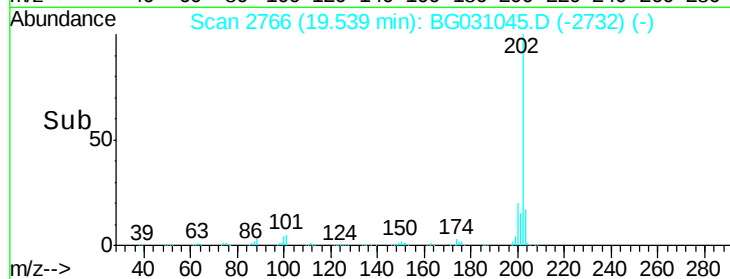
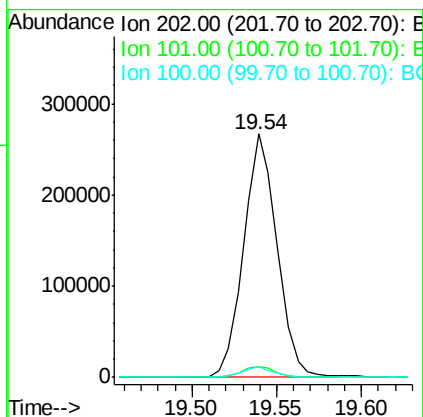
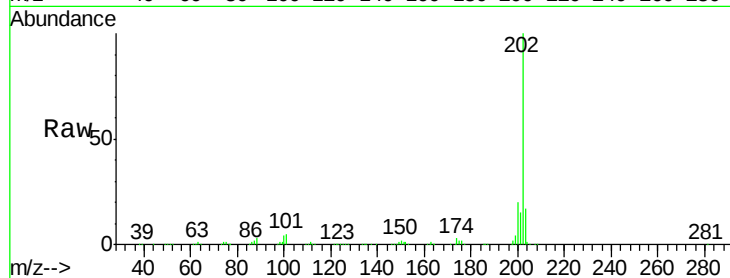




#17
Fluoranthene
 Concen: 21.04 ng/ul
 RT: 19.54 min Scan# 2766
 Delta R.T. 0.00 min
 Lab File: BG031045.D
 Acq: 16 Nov 2017 15:36

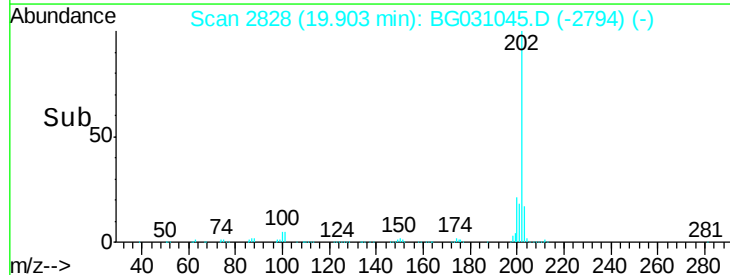
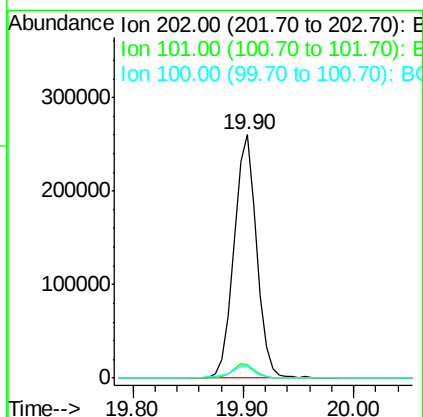
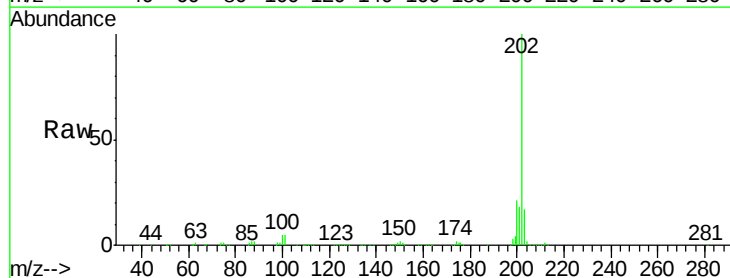
Instrument :
 BNA_G
 ClientSampleId :

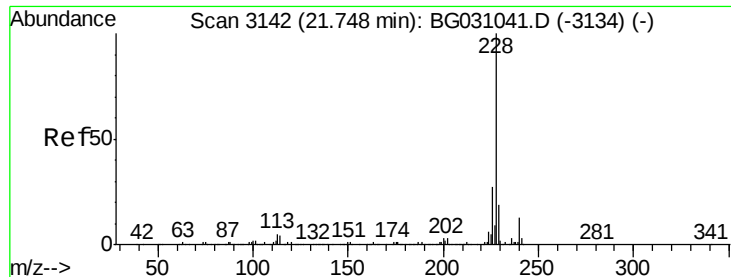
Tot Ion	Ratio	Lower	Upper
202	100		
101	4.5	9.8	14.8#
100	4.3	7.5	11.3#



#20
Pyrene
 Concen: 20.20 ng/ul
 RT: 19.90 min Scan# 2828
 Delta R.T. 0.00 min
 Lab File: BG031045.D
 Acq: 16 Nov 2017 15:36

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.4	11.2	16.8#
100	4.6	9.8	14.6#





#21

Benzo(a)anthracene

Concen: 20.22 ng/ul

RT: 21.75 min Scan# 3142

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

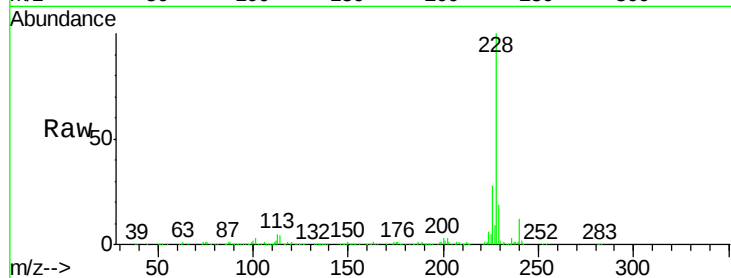
Tot Ion:228 Resp: 430561

Ion Ratio Lower Upper

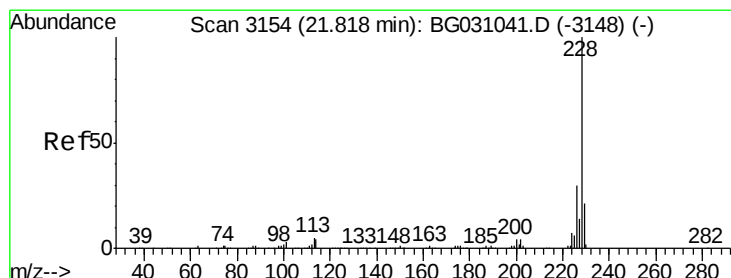
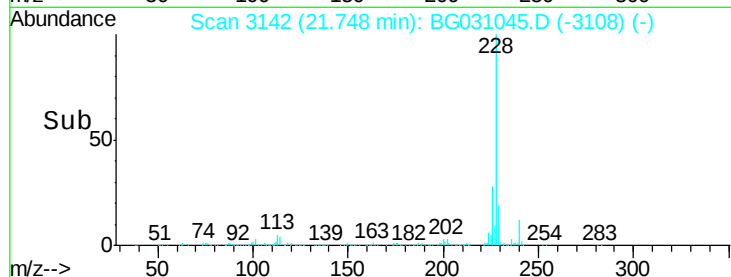
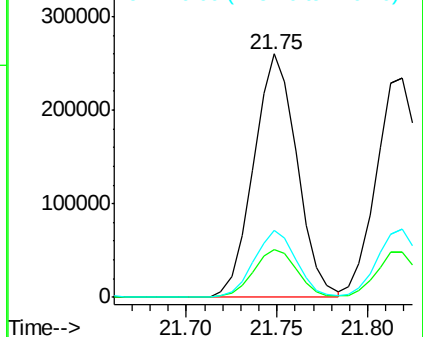
228 100

229 19.4 15.9 23.9

226 27.6 22.1 33.1



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 19.91 ng/ul

RT: 21.82 min Scan# 3154

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

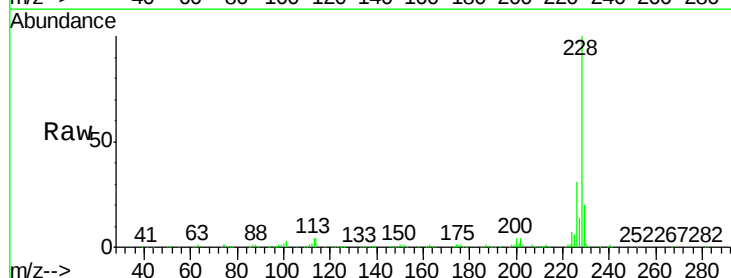
Tgt Ion:228 Resp: 403325

Ion Ratio Lower Upper

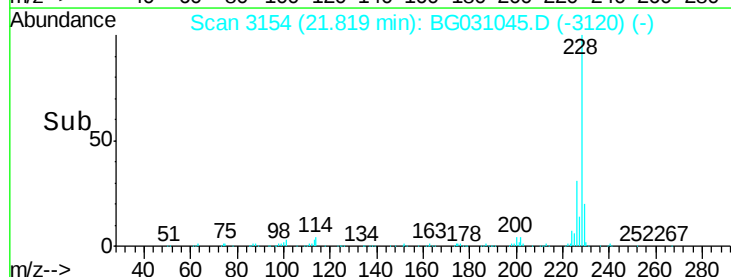
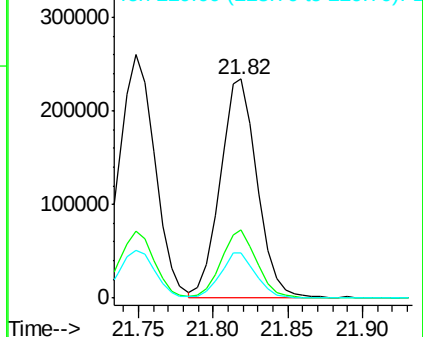
228 100

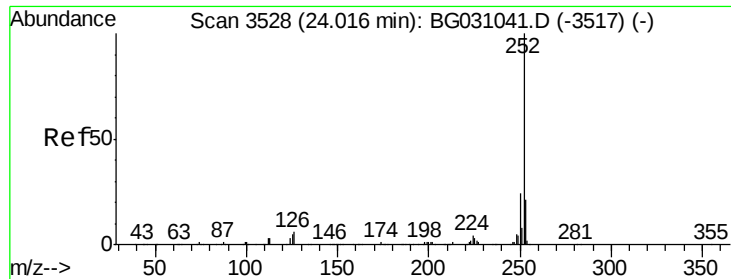
226 31.4 25.0 37.6

229 20.5 16.6 25.0



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

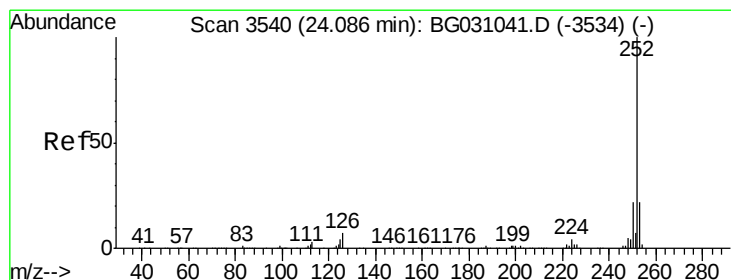
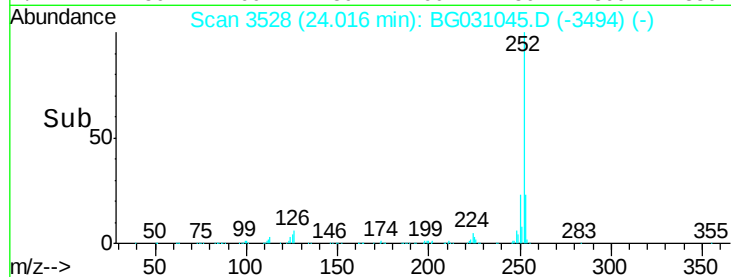
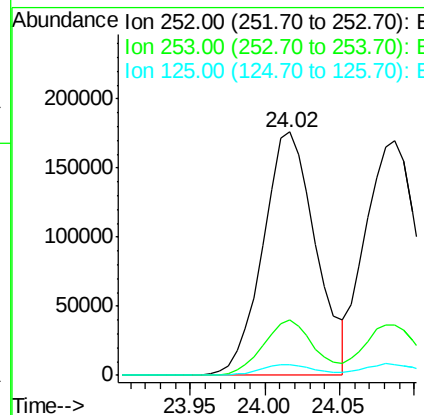
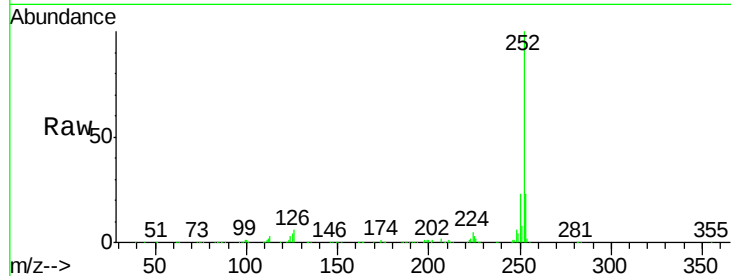




#24
Benzo(b)fluoranthene
Concen: 20.09 ng/ul
RT: 24.02 min Scan# 3528
Delta R.T. 0.00 min
Lab File: BG031045.D
Acq: 16 Nov 2017 15:36

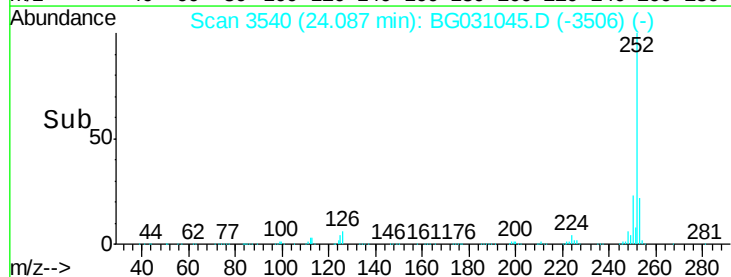
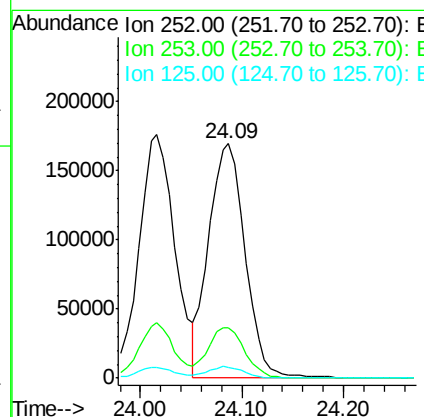
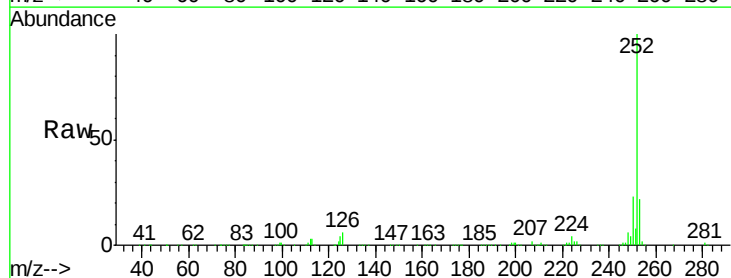
Instrument :
BNA_G
ClientSampled :

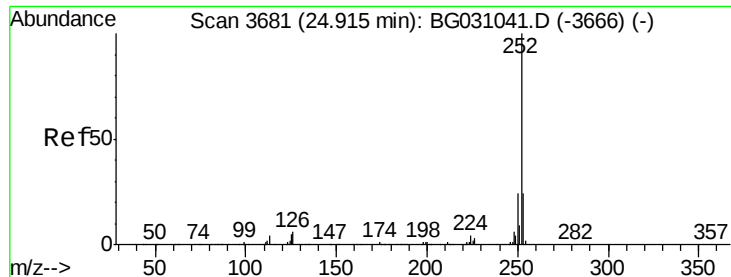
Tot Ion:252 Resp: 433555
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 4.4 9.4 14.0#



#25
Benzo(k)fluoranthene
Concen: 19.83 ng/ul
RT: 24.09 min Scan# 3540
Delta R.T. 0.00 min
Lab File: BG031045.D
Acq: 16 Nov 2017 15:36

Tgt Ion:252 Resp: 421651
Ion Ratio Lower Upper
252 100
253 21.6 17.4 26.2
125 4.4 8.8 13.2#





#27

Benzo(a)pyrene

Concen: 20.03 ng/ul

RT: 24.91 min Scan# 3680

Delta R.T. -0.01 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampleId :

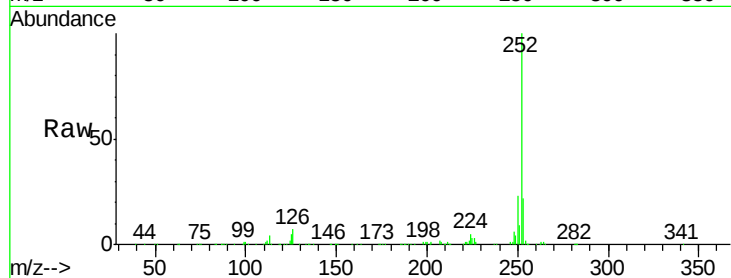
Tot Ion:252 Resp: 414225

Ion Ratio Lower Upper

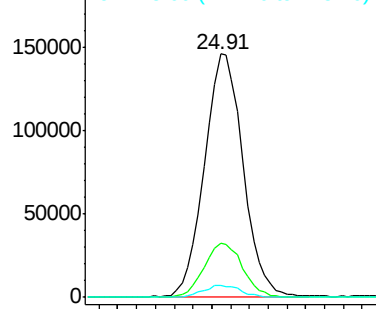
252 100

253 22.1 17.1 25.7

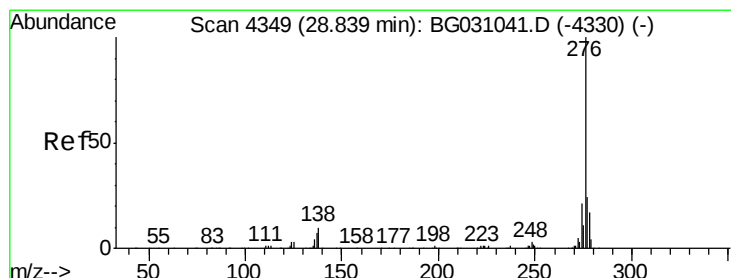
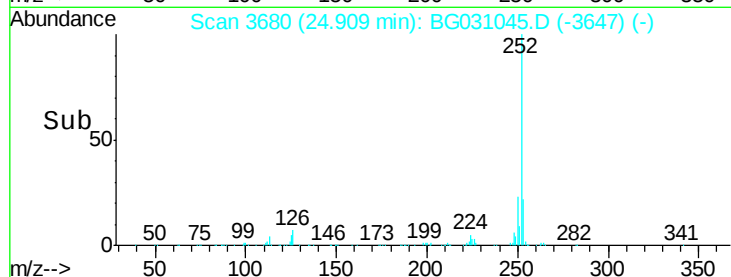
125 4.7 9.4 14.2#



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



Time-->



#28

Indeno(1,2,3-cd)pyrene

Concen: 20.06 ng/ul

RT: 28.85 min Scan# 4350

Delta R.T. 0.01 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

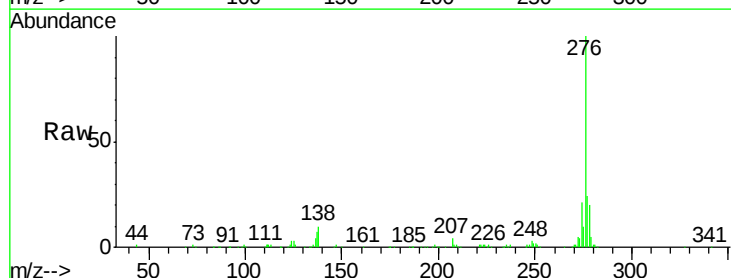
Tgt Ion:276 Resp: 473009

Ion Ratio Lower Upper

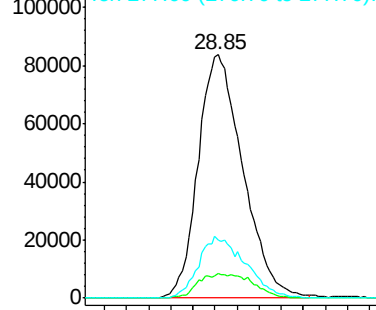
276 100

138 9.9 17.8 26.6#

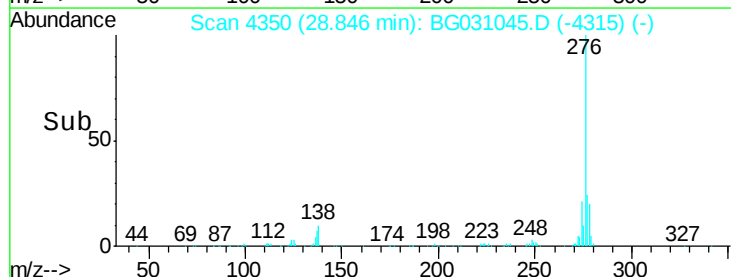
277 23.9 19.4 29.0

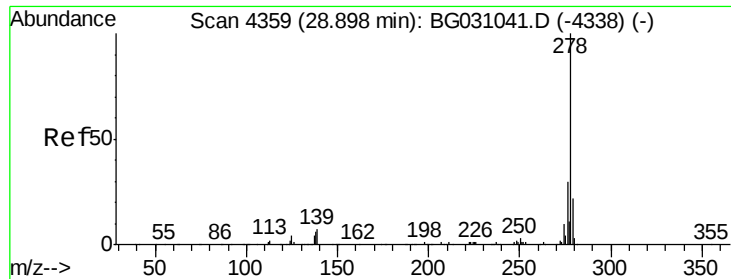


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time-->





#29

Dibenzo(a,h)anthracene

Concen: 20.14 ng/ul

RT: 28.89 min Scan# 4358

Delta R.T. -0.01 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

Instrument :

BNA_G

ClientSampled :

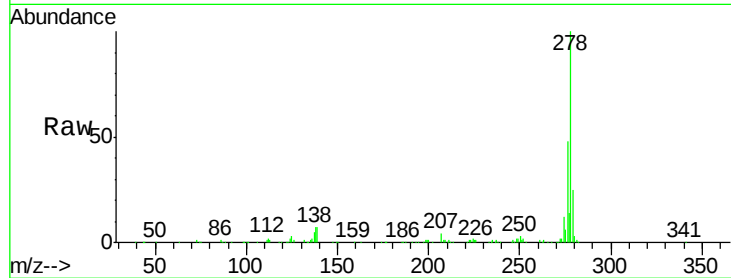
Tot Ion:278 Resp: 393223

Ion Ratio Lower Upper

278 100

139 7.3 14.0 21.0#

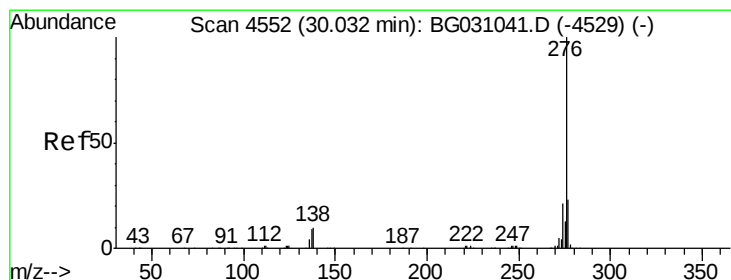
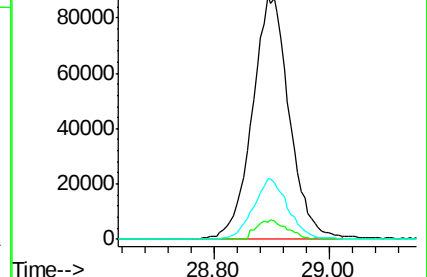
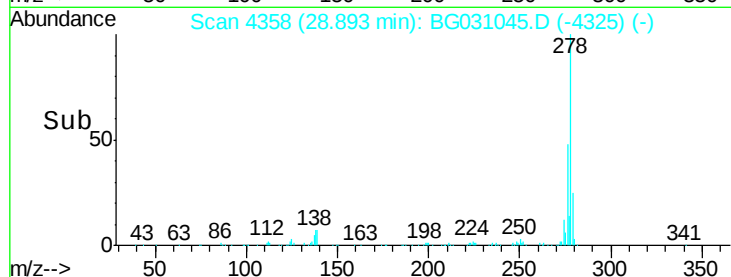
279 24.8 20.6 31.0



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



#30

Benzo(g,h,i)perylene

Concen: 20.02 ng/ul

RT: 30.03 min Scan# 4552

Delta R.T. 0.00 min

Lab File: BG031045.D

Acq: 16 Nov 2017 15:36

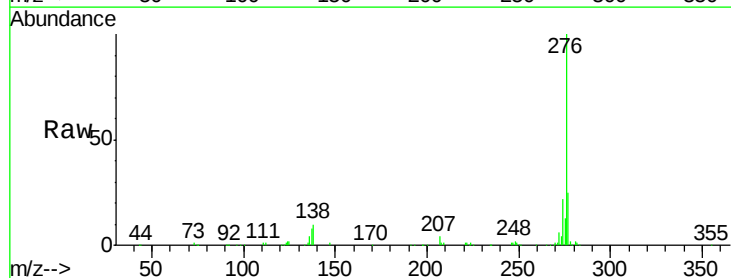
Tgt Ion:276 Resp: 393066

Ion Ratio Lower Upper

276 100

138 10.1 19.0 28.4#

277 24.6 19.7 29.5



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

