

Data Path : Z:\HPCHEM1\BNA_G\Data\BG081315\
 Data File : BG018427.D
 Acq On : 13 Aug 2015 17:22
 Operator : UM/MA
 Sample : G3136-02DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02J7DL

Manual Integrations
 APPROVED

MMDadoda
 8/14/2015 3:06:48 PM

Quant Time: Aug 19 03:23:24 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Aug 14 00:53:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	156375	20.00	ng/ul	0.00
18) Naphthalene-d8	10.83	136	701102	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.64	164	412101	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.39	188	878885	20.00	ng/ul	0.00
78) Chrysene-d12	21.66	240	781230	20.00	ng/ul	0.00
86) Perylene-d12	24.89	264	769708	20.00	ng/ul	0.02

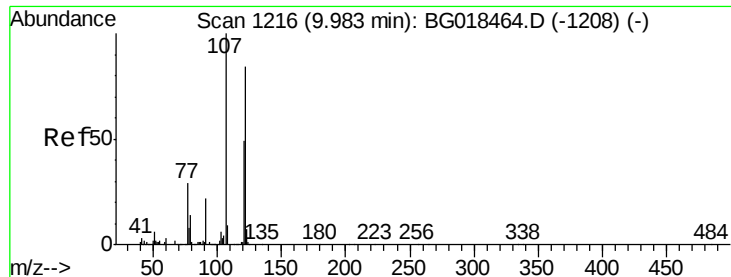
System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0d	0.00	ng/uL	
5) Phenol-d5	7.18	99	26058	1.84	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.34	67	16163	1.84	ng/ul	0.00
9) 2-Chlorophenol-d4	7.55	132	21889	2.01	ng/ul	0.00
13) 4-Methylphenol-d8	8.72	113	20689	1.73	ng/ul	0.00
19) Nitrobenzene-d5	9.17	128	9933	1.82	ng/ul	0.00
22) 2-Nitrophenol-d4	9.90	143	10928	1.96	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.44	165	22298	1.89	ng/ul	0.00
29) 4-Chloroaniline-d4	10.95	131	11823	0.89	ng/ul	0.00
44) Dimethylphthalate-d6	14.05	166	74662	2.15	ng/ul	0.00
47) Acenaphthylene-d8	14.34	160	94123	2.16	ng/ul	0.00
52) 4-Nitrophenol-d4	14.83	143	6438	1.03	ng/ul	-0.01
58) Fluorene-d10	15.63	176	69004	2.28	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.74	200	6014	1.39	ng/ul	0.00
71) Anthracene-d10	17.49	188	97518	2.32	ng/ul	0.00
79) Pyrene-d10	19.77	212	94007	2.32	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.65	264	86258	2.11	ng/ul	0.00

Target Compounds

						Qvalue
24) 2,4-Dimethylphenol	9.99	107	16738	1.21	ng/ul	95
28) Naphthalene	10.88	128	81513	2.20	ng/ul	97
34) 2-Methylnaphthalene	12.48	142	37925	1.41	ng/ul	84
50) Acenaphthene	14.71	153	52000	1.69	ng/ul	94
54) Dibenzofuran	15.04	168	45047	1.12	ng/ul	98
59) Fluorene	15.69	166	64025	1.85	ng/ul	99
70) Phenanthrene	17.43	178	516681	10.84	ng/ul	99
72) Anthracene	17.52	178	140282	2.89	ng/ul	96
75) Carbazole	17.79	167	46255	1.09	ng/ul#	92
77) Fluoranthene	19.44	202	770091	15.12	ng/ul	98
80) Pyrene	19.80	202	681210	12.90	ng/ul	99
81) Butylbenzylphthalate	20.69	149	54820	2.45	ng/ul#	85
83) Benzo(a)anthracene	21.64	228	289406	5.97	ng/ul#	94
84) Bis(2-ethylhexyl)phthalate	21.55	149	1490625	47.22	ng/ul#	93
85) Chrysene	21.70	228	257068m	5.68	ng/ul	
88) Benzo(b)fluoranthene	23.86	252	289583	5.99	ng/ul#	59
89) Benzo(k)fluoranthene	23.92	252	103832m	2.23	ng/ul	
91) Benzo(a)pyrene	24.72	252	188120	4.09	ng/ul#	59
92) Indeno(1,2,3-cd)pyrene	28.55	276	106215	2.00	ng/ul#	78
94) Benzo(g,h,i)perylene	29.68	276	89394m	2.00	ng/ul	

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



#24

2,4-Dimethylphenol

Concen: 1.21 ng/ul

RT: 9.99 min Scan# 1217

Delta R.T. -0.00 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

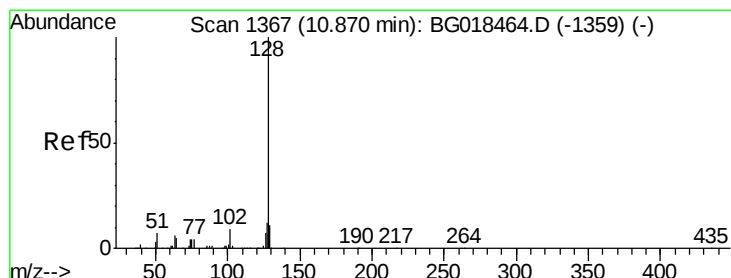
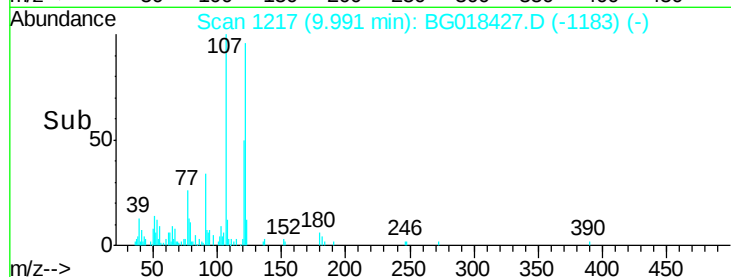
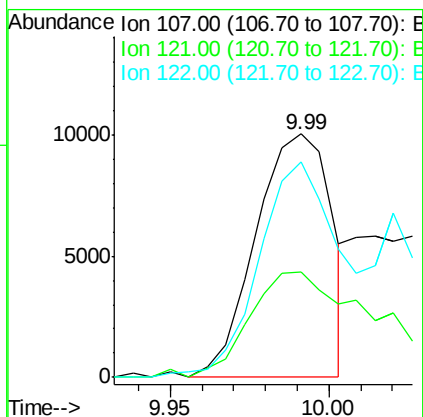
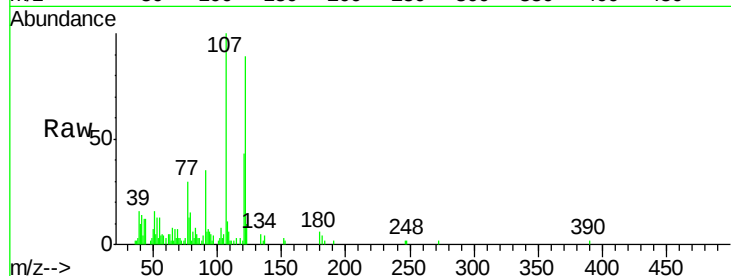
ClientSampleId :

C02J7DL

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM

Tgt Ion:	107	Resp:	16738
Ion Ratio	Lower	Upper	
107	100		
121	43.4	41.3	61.9
122	88.6	71.9	107.9



#28

Naphthalene

Concen: 2.20 ng/ul

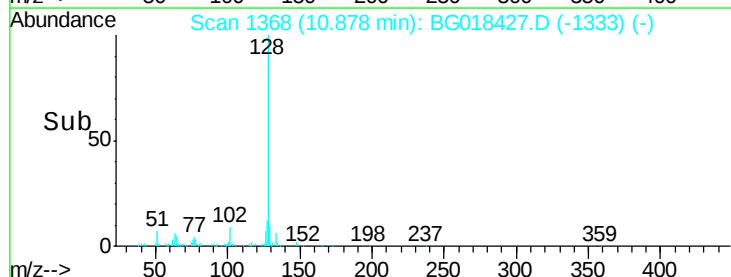
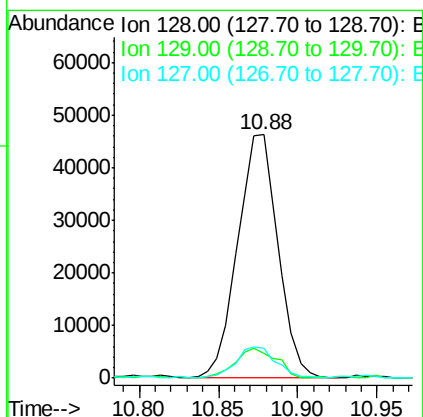
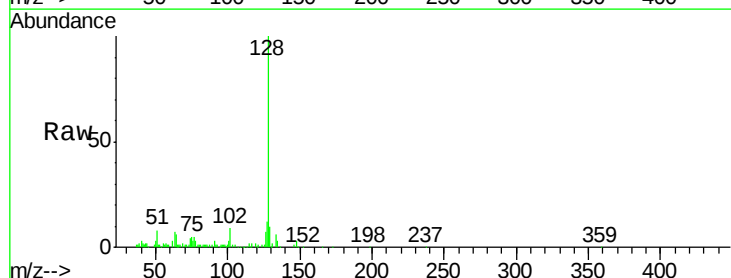
RT: 10.88 min Scan# 1368

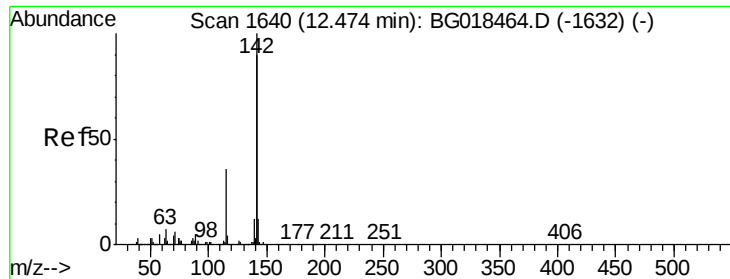
Delta R.T. 0.01 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Tgt Ion:	128	Resp:	81513
Ion Ratio	Lower	Upper	
128	100		
129	10.0	9.6	14.4
127	12.4	10.5	15.7





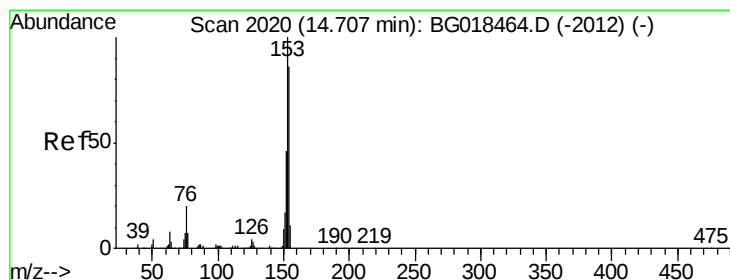
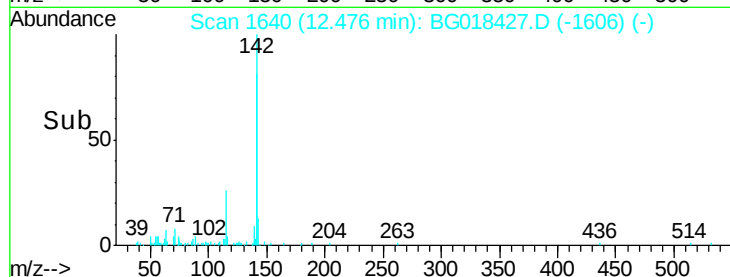
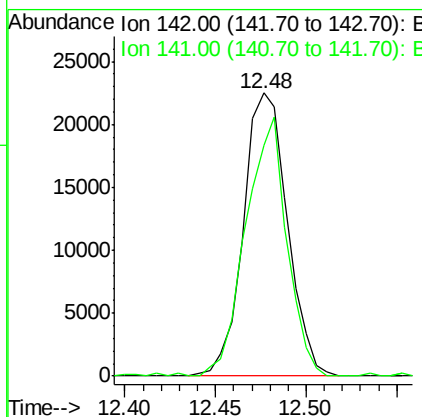
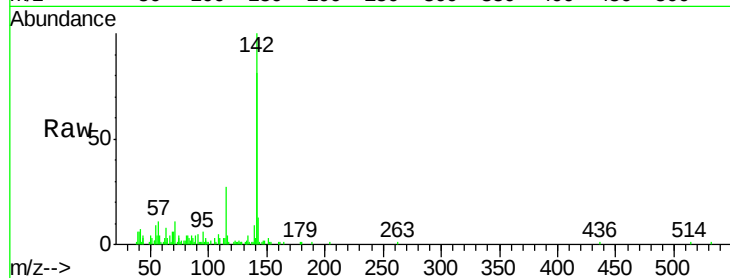
#34
 2-Methylnaphthalene
 Concen: 1.41 ng/ul
 RT: 12.48 min Scan# 1640
 Delta R.T. -0.00 min
 Lab File: BG018427.D
 Acq: 13 Aug 2015 17:22

Instrument :
 BNA_G
 ClientSampleId :
 C02J7DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	81.4	78.0	117.0

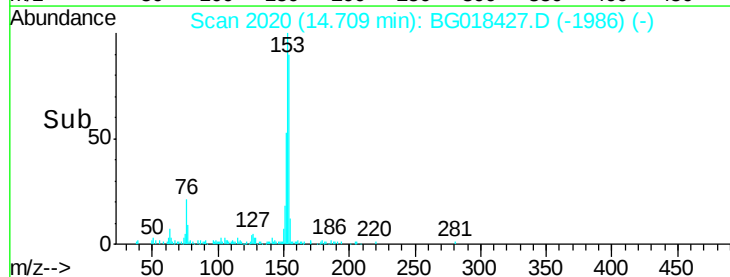
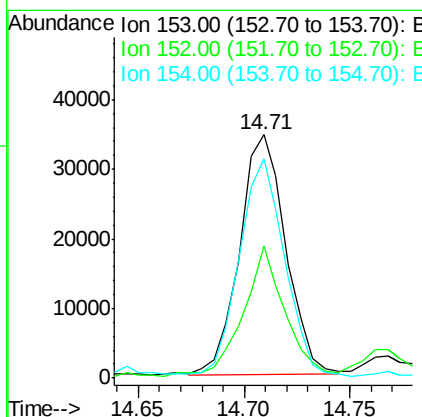
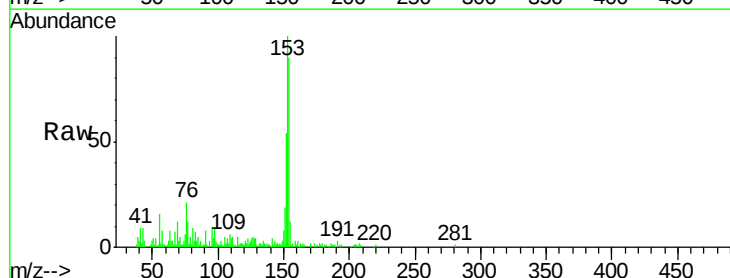
Manual Integrations
 APPROVED

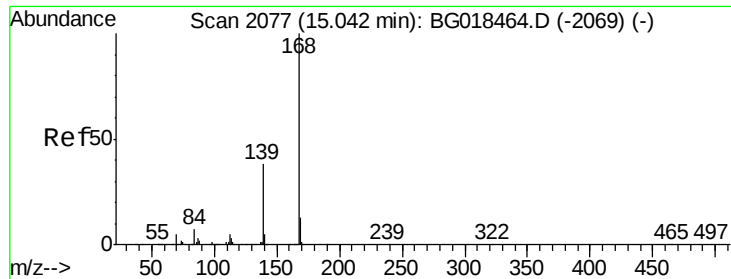
MMDadoda
 8/14/2015 3:06:48 PM



#50
 Acenaphthene
 Concen: 1.69 ng/ul
 RT: 14.71 min Scan# 2020
 Delta R.T. -0.00 min
 Lab File: BG018427.D
 Acq: 13 Aug 2015 17:22

Tgt Ion	Ratio	Lower	Upper
153	100		
152	54.2	38.2	57.4
154	90.2	68.6	103.0





#54

Dibenzofuran

Concen: 1.12 ng/ul

RT: 15.04 min Scan# 2077

Delta R.T. -0.00 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

ClientSampleId :

C02J7DL

Tgt Ion:168 Resp: 45047

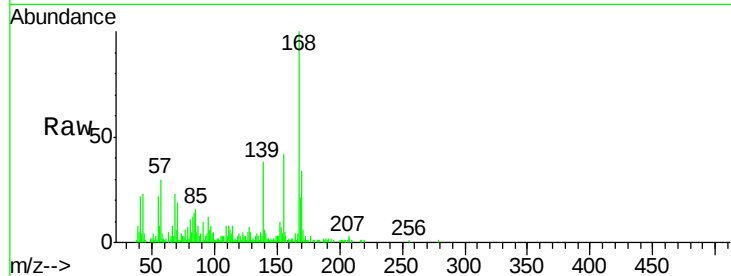
Ion Ratio Lower Upper

168 100

139 38.4 29.7 44.5

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

30000

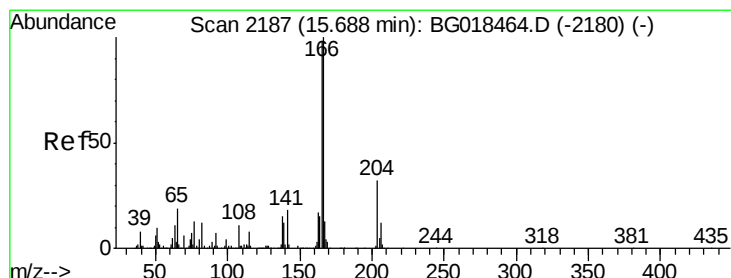
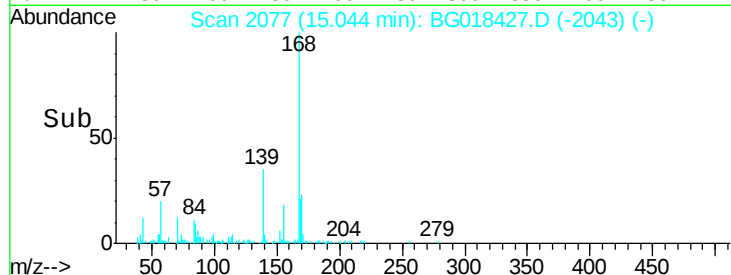
20000

10000

0

15.00 15.05 15.10

Time-->



#59

Fluorene

Concen: 1.85 ng/ul

RT: 15.69 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

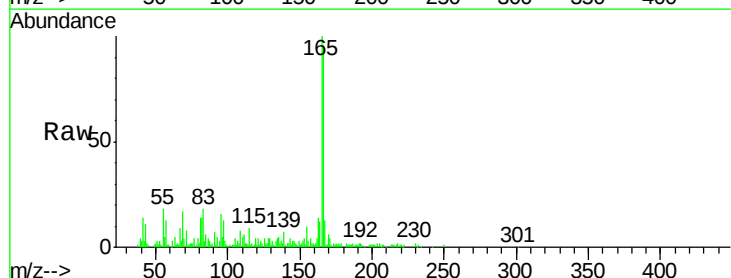
Tgt Ion:166 Resp: 64025

Ion Ratio Lower Upper

166 100

165 104.1 82.6 124.0

167 13.4 11.4 17.0



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

60000

50000

40000

30000

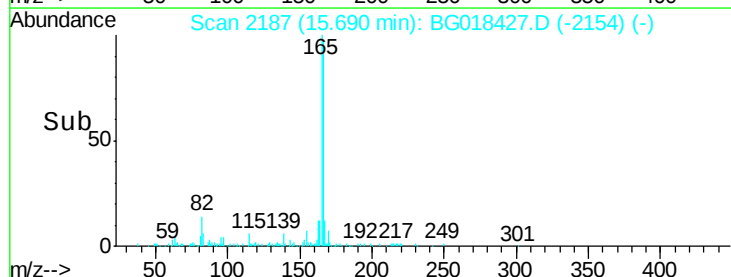
20000

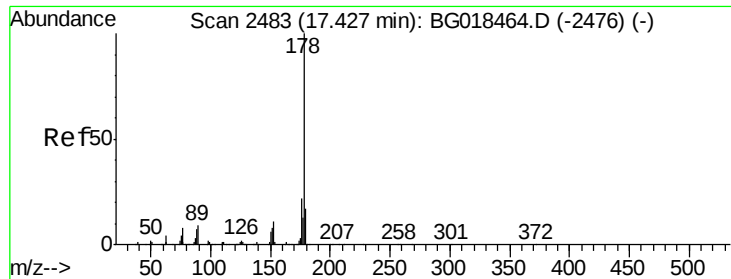
10000

0

15.60 15.65 15.70 15.75

Time-->





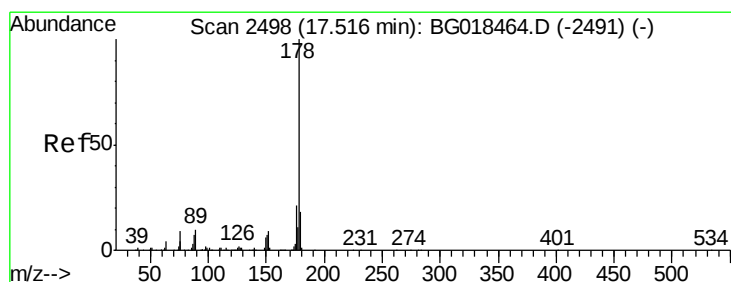
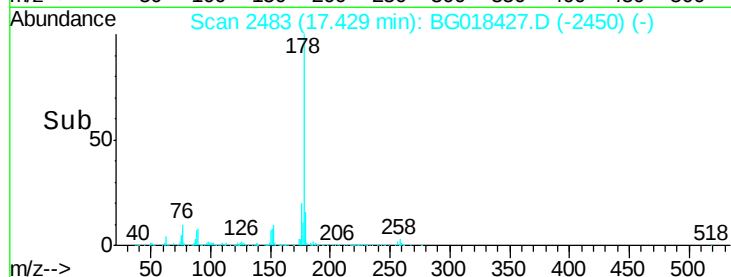
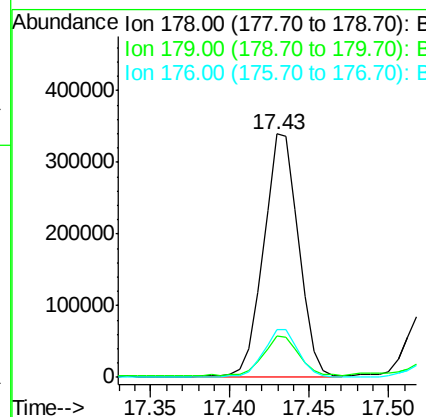
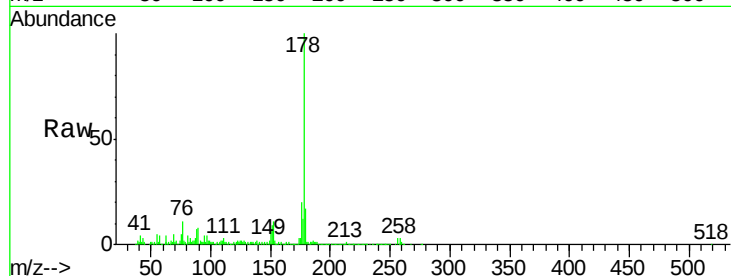
#70
Phenanthrene
Concen: 10.84 ng/ul
RT: 17.43 min Scan# 2483
Delta R.T. -0.01 min
Lab File: BG018427.D
Acq: 13 Aug 2015 17:22

Instrument :
BNA_G
ClientSampleId :
C02J7DL

Tgt Ion	Ratio	Lower	Upper
178	100		
179	17.0	13.7	20.5
176	19.8	16.6	24.8

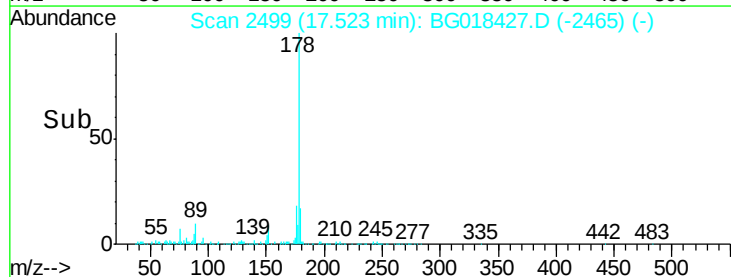
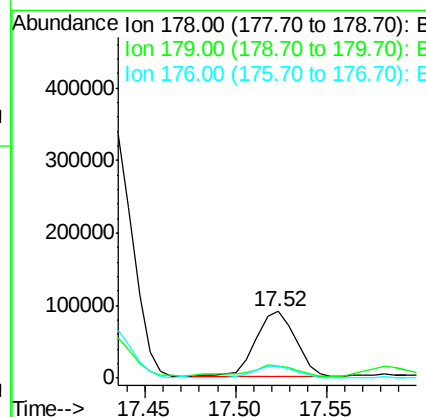
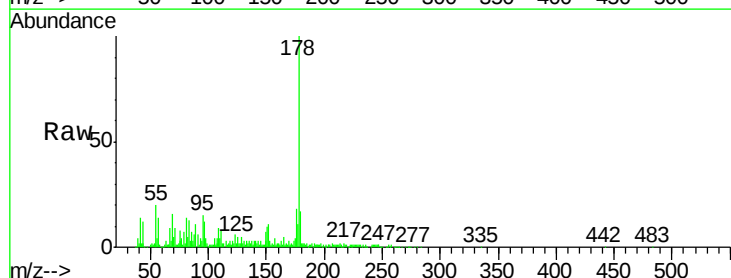
Manual Integrations
APPROVED

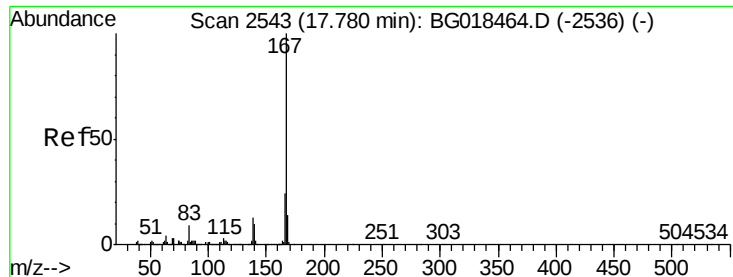
MMDadoda
8/14/2015 3:06:48 PM



#72
Anthracene
Concen: 2.89 ng/ul
RT: 17.52 min Scan# 2499
Delta R.T. -0.00 min
Lab File: BG018427.D
Acq: 13 Aug 2015 17:22

Tgt Ion	Ratio	Lower	Upper
178	100		
179	17.4	13.0	19.4
176	18.1	16.0	24.0





#75

Carbazole

Concen: 1.09 ng/ul

RT: 17.79 min Scan# 2544

Delta R.T. -0.00 min

Lab File: BG018427.D

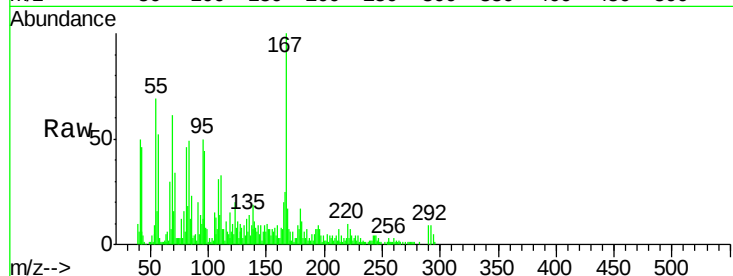
Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

ClientSampleId :

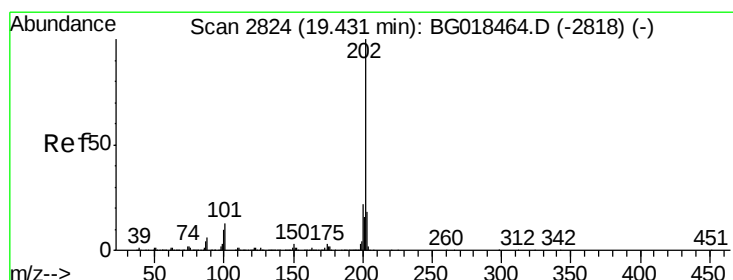
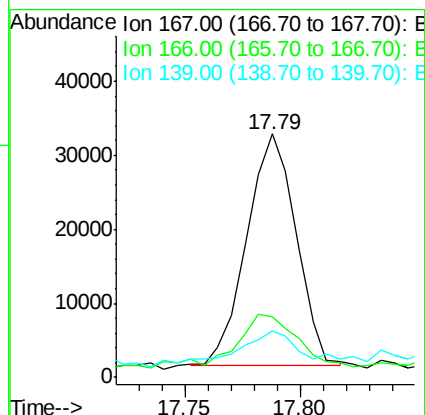
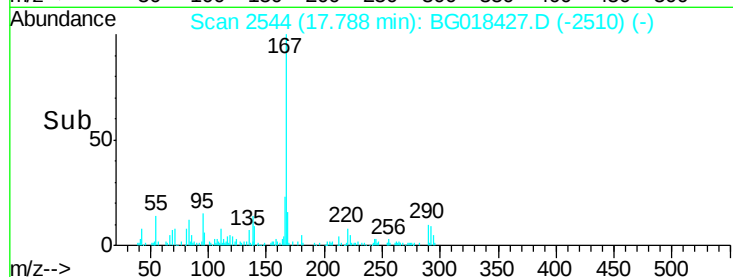
C02J7DL



Tgt Ion:	167	Resp:	46255
Ion Ratio	Lower	Upper	
167	100		
166	24.8	18.9	28.3
139	19.3	10.1	15.1#

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



#77

Fluoranthene

Concen: 15.12 ng/ul

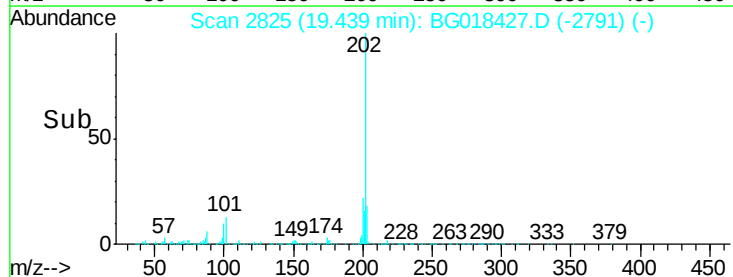
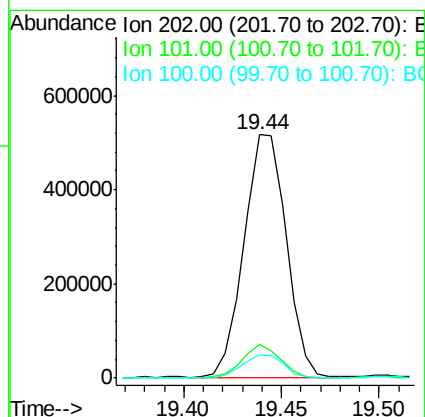
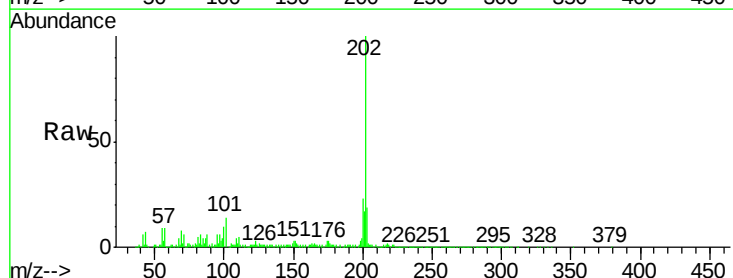
RT: 19.44 min Scan# 2825

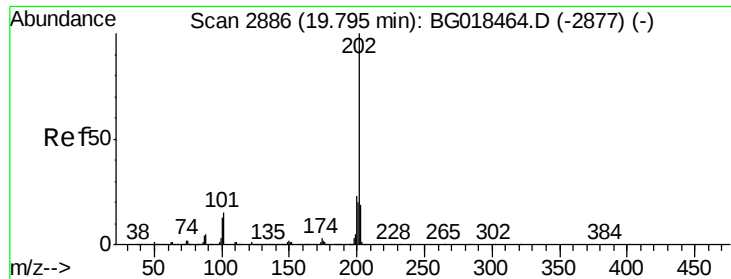
Delta R.T. -0.00 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Tgt Ion:	202	Resp:	770091
Ion Ratio	Lower	Upper	
202	100		
101	13.6	9.7	14.5
100	9.9	7.8	11.8





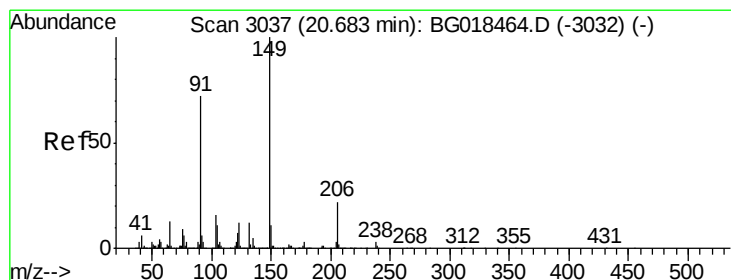
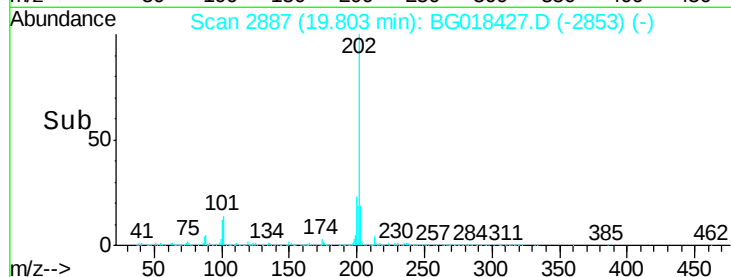
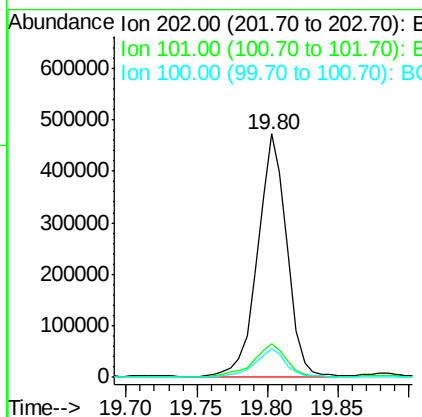
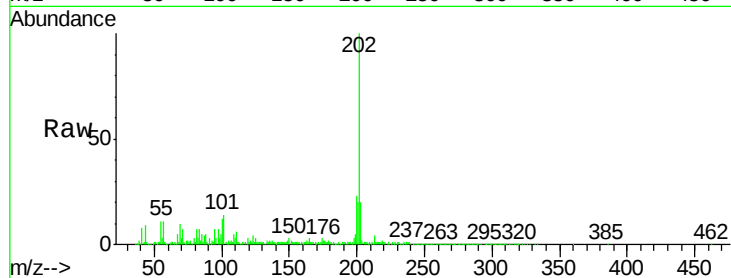
#80
 Pyrene
 Concen: 12.90 ng/ul
 RT: 19.80 min Scan# 2887
 Delta R.T. -0.00 min
 Lab File: BG018427.D
 Acq: 13 Aug 2015 17:22

Instrument :
 BNA_G
 ClientSampleId :
 C02J7DL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	681210		
101	14.1	11.0	16.4	
100	12.0	9.8	14.6	

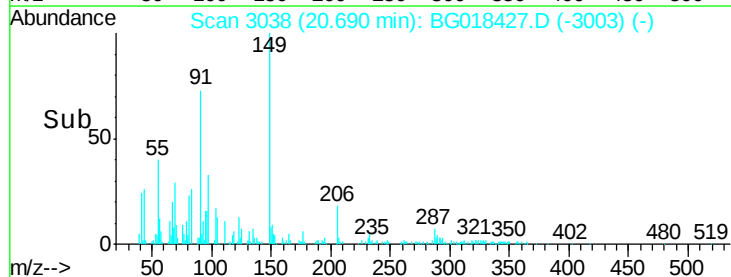
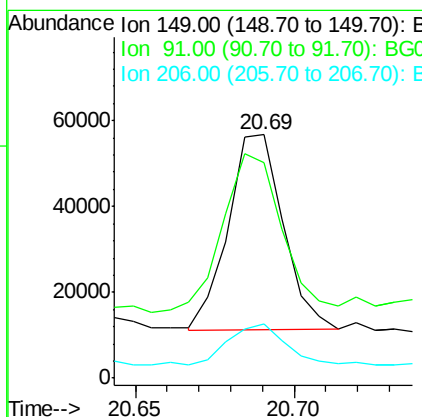
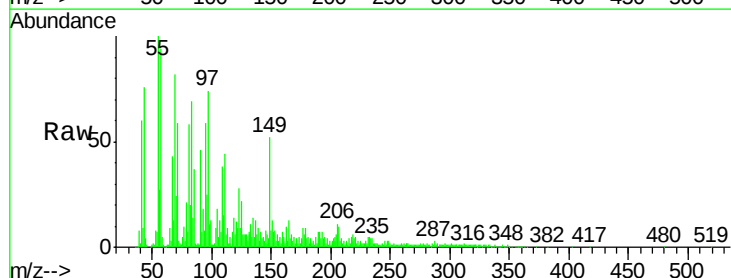
Manual Integrations
 APPROVED

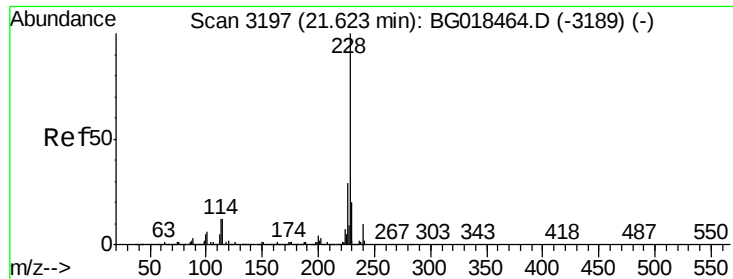
MMDadoda
 8/14/2015 3:06:48 PM



#81
 Butylbenzylphthalate
 Concen: 2.45 ng/ul
 RT: 20.69 min Scan# 3038
 Delta R.T. 0.01 min
 Lab File: BG018427.D
 Acq: 13 Aug 2015 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	54820		
91	88.5	57.9	86.9#	
206	22.1	17.9	26.9	





#83

Benzo(a)anthracene

Concen: 5.97 ng/ul

RT: 21.64 min Scan# 3199

Delta R.T. -0.00 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

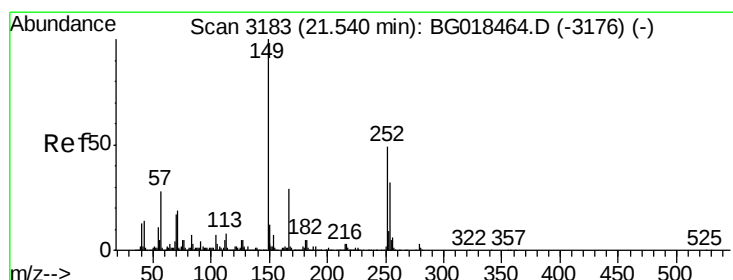
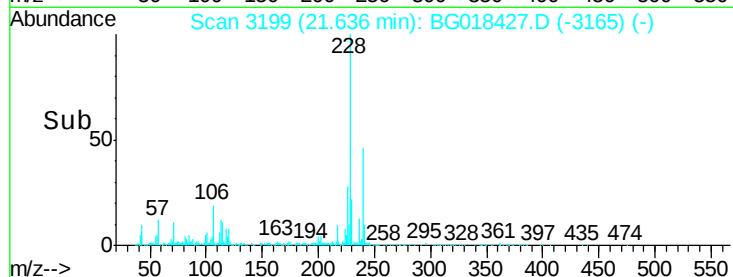
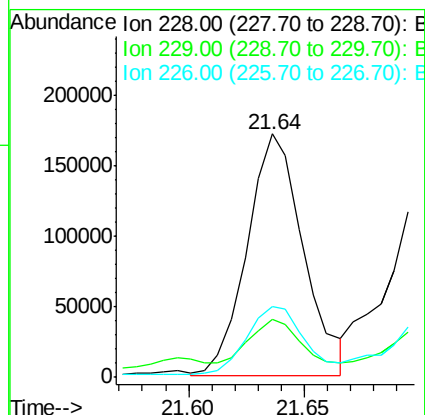
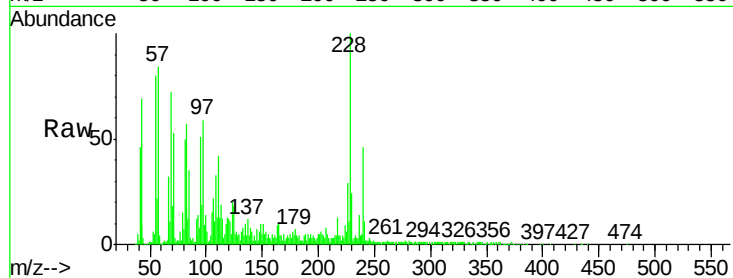
ClientSampleId :

C02J7DL

Tgt Ion:	228	Resp:	289406
Ion Ratio	Lower	Upper	
228	100		
229	23.7	15.5	23.3#
226	29.1	22.1	33.1

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



#84

Bis(2-ethylhexyl)phthalate

Concen: 47.22 ng/ul

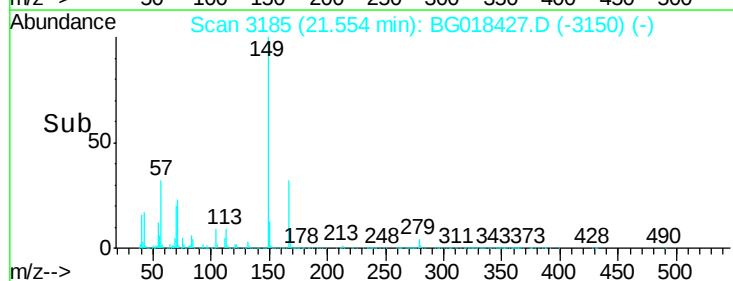
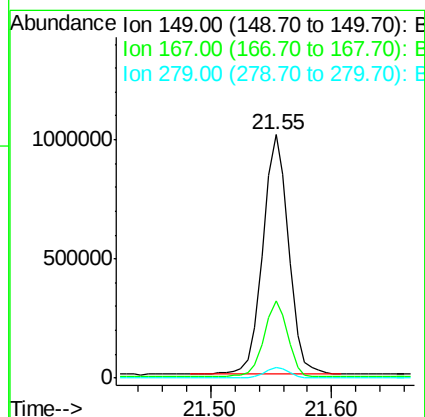
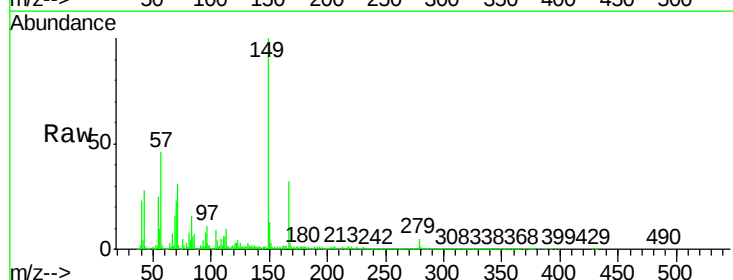
RT: 21.55 min Scan# 3185

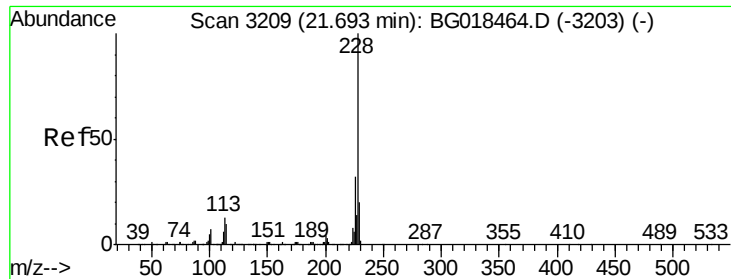
Delta R.T. 0.01 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Tgt Ion:	149	Resp:	1490625
Ion Ratio	Lower	Upper	
149	100		
167	31.9	22.2	33.2
279	4.5	2.8	4.2#





#85

Chrysene

Concen: 5.68 ng/ul m

RT: 21.70 min Scan# 3210

Delta R.T. -0.00 min

Lab File: BG018427.D

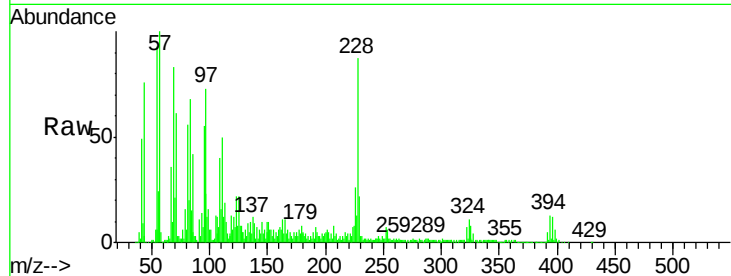
Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

ClientSampleId :

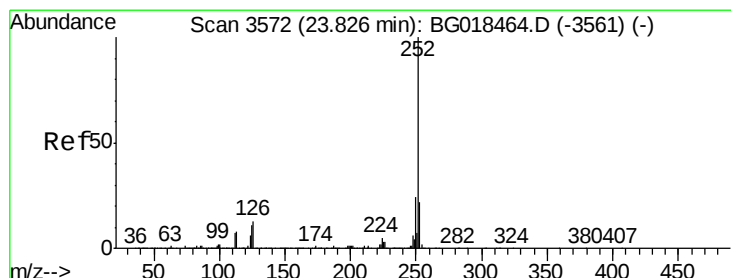
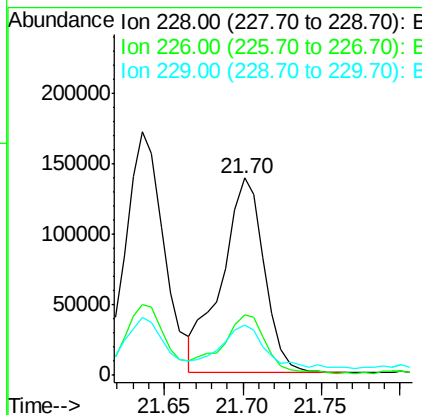
C02J7DL



Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	26.5	39.7
229	25.6	16.9	25.3#

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



#88

Benzo(b)fluoranthene

Concen: 5.99 ng/ul

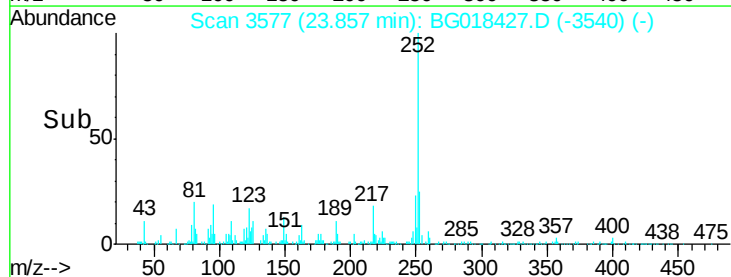
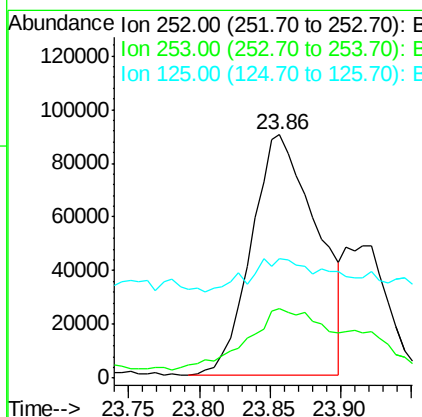
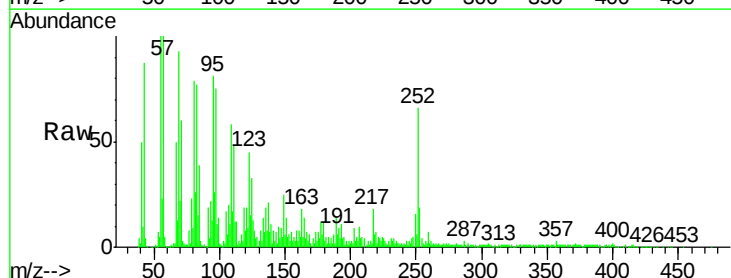
RT: 23.86 min Scan# 3577

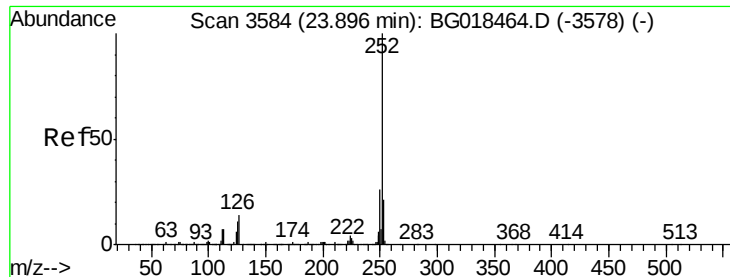
Delta R.T. 0.02 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.6	18.1	27.1#
125	49.3	8.3	12.5#





#89

Benzo(k)fluoranthene

Concen: 2.23 ng/ul m

RT: 23.92 min Scan# 3587

Delta R.T. 0.01 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

ClientSampleId :

C02J7DL

Tgt Ion: 252 Resp: 103832
Ion Ratio Lower Upper

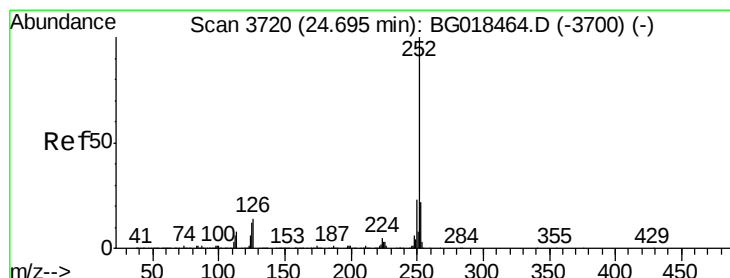
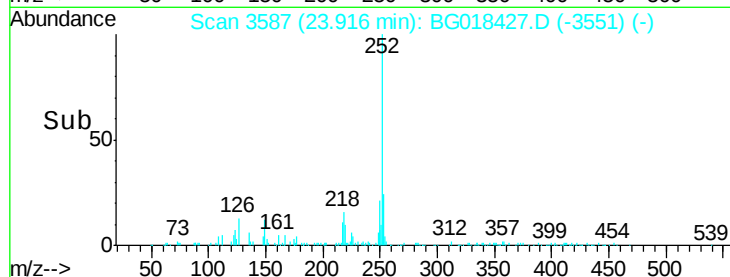
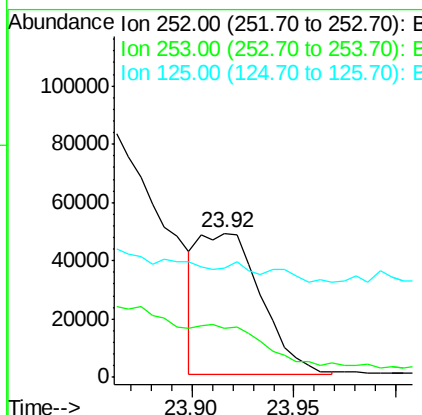
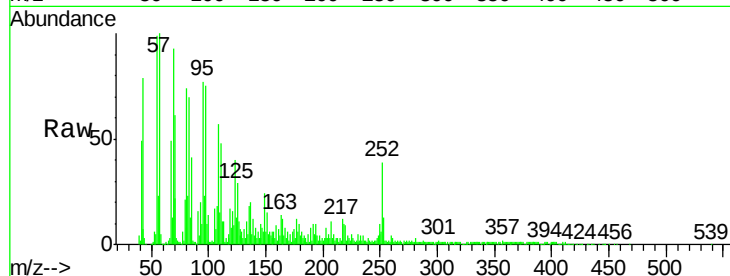
252 100

253 33.7 17.8 26.6#

125 75.5 9.0 13.4#

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



#91

Benzo(a)pyrene

Concen: 4.09 ng/ul

RT: 24.72 min Scan# 3724

Delta R.T. 0.01 min

Lab File: BG018427.D

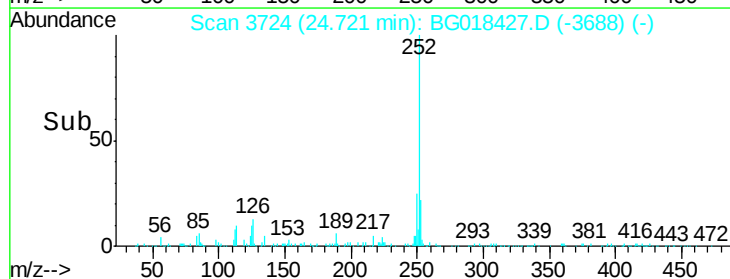
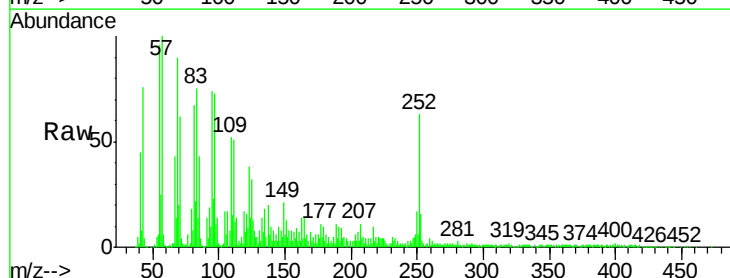
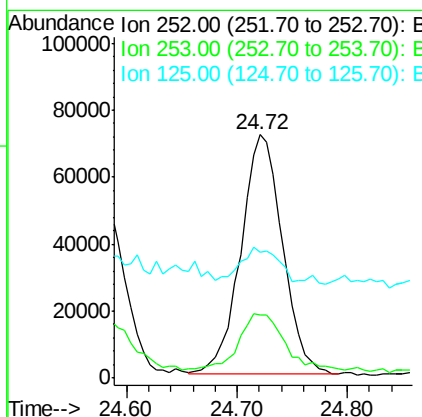
Acq: 13 Aug 2015 17:22

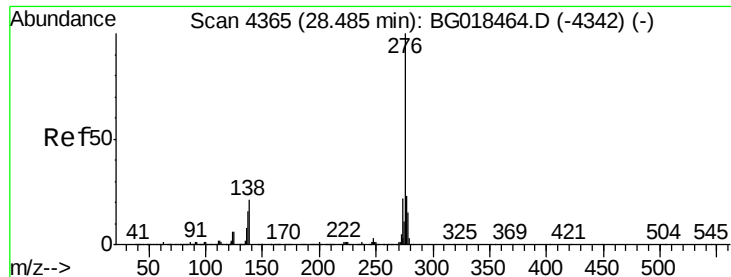
Tgt Ion: 252 Resp: 188120
Ion Ratio Lower Upper

252 100

253 25.7 17.7 26.5

125 51.7 10.2 15.2#





#92

Indeno(1,2,3-cd)pyrene

Concen: 2.00 ng/ul

RT: 28.55 min Scan# 4376

Delta R.T. 0.04 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Instrument :

BNA_G

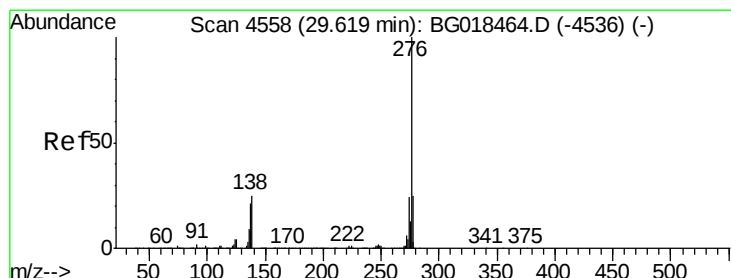
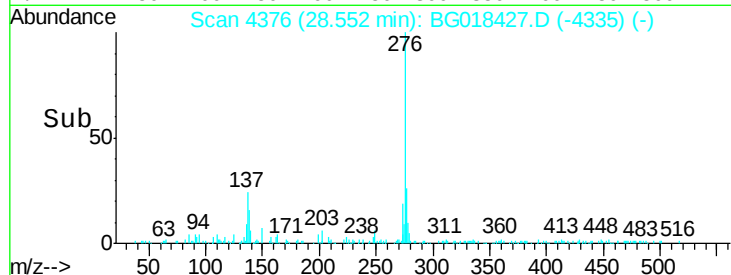
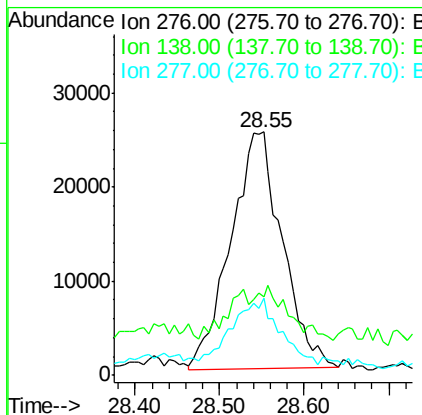
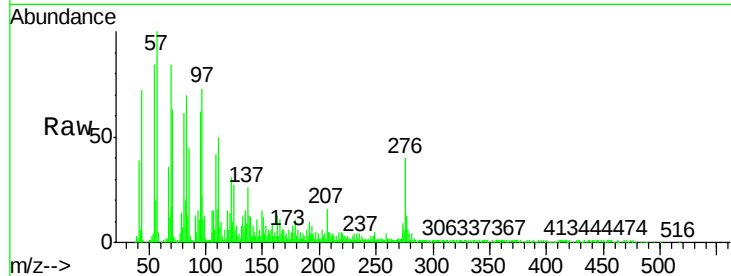
ClientSampleId :

C02J7DL

Tgt Ion:	276	Resp:	106215
Ion Ratio		Lower	Upper
276	100		
138	32.5	15.8	23.6#
277	31.9	18.9	28.3#

Manual Integrations
APPROVED

MMDadoda
8/14/2015 3:06:48 PM



#94

Benzo(g,h,i)perylene

Concen: 2.00 ng/ul m

RT: 29.68 min Scan# 4568

Delta R.T. 0.03 min

Lab File: BG018427.D

Acq: 13 Aug 2015 17:22

Tgt Ion:	276	Resp:	89394
Ion Ratio		Lower	Upper
276	100		
138	33.8	16.5	24.7#
277	29.1	19.0	28.6#

