

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\
 Data File : BG021213.D
 Acq On : 2 Mar 2016 15:04
 Operator : UM/SJ
 Sample : H1565-01DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CEB-2(2.5-5)20160223DL

Manual Integrations
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Sohil
 3/3/2016 8:23:04 AM

Quant Time: Mar 02 15:52:24 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 02 14:51:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	13449	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	70121	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	46548	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	105075	20.00	ng	0.00
75) Chrysene-d12	21.77	240	111242	20.00	ng	0.00
86) Perylene-d12	25.05	264	104691	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	21479	25.39	ng	0.00
7) Phenol-d6	7.30	99	38815	27.90	ng	0.00
23) Nitrobenzene-d5	9.31	82	27088	16.35	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	10045	20.74	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	51604	15.74	ng	0.00
78) Terphenyl-d14	20.09	244	73354	15.97	ng	0.00

Target Compounds						Qvalue
31) Naphthalene	11.00	128	18553	5.07	ng	98
37) 2-Methylnaphthalene	12.60	142	8103	3.11	ng	# 95
49) Dimethylphthalate	14.20	163	8985	2.17	ng	# 95
51) Acenaphthene	14.82	154	9294	3.01	ng	92
54) Dibenzofuran	15.15	168	11602	2.81	ng	92
57) Fluorene	15.80	166	16406	4.17	ng	98
70) Phenanthrene	17.54	178	210019	37.04	ng	98
71) Anthracene	17.63	178	35243	6.07	ng	98
72) Carbazole	17.90	167	15681	3.05	ng	99
74) Fluoranthene	19.54	202	218949	32.87	ng	98
77) Pyrene	19.90	202	218217	32.88	ng	98
80) Benzo(a)anthracene	21.74	228	99109	15.05	ng	98
82) Chrysene	21.82	228	97252	15.58	ng	97
85) Indeno(1,2,3-cd)pyrene	28.79	276	51016	7.13	ng	# 92
87) Benzo(b)fluoranthene	24.00	252	105911m	16.08	ng	
88) Benzo(k)fluoranthene	24.07	252	38890m	5.90	ng	
89) Benzo(a)pyrene	24.89	252	86399	13.57	ng	95
90) Dibenzo(a,h)anthracene	28.84	278	14862	2.36	ng	# 91
91) Benzo(a,h,i)perylene	29.96	276	49169	8.08	ng	# 92

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

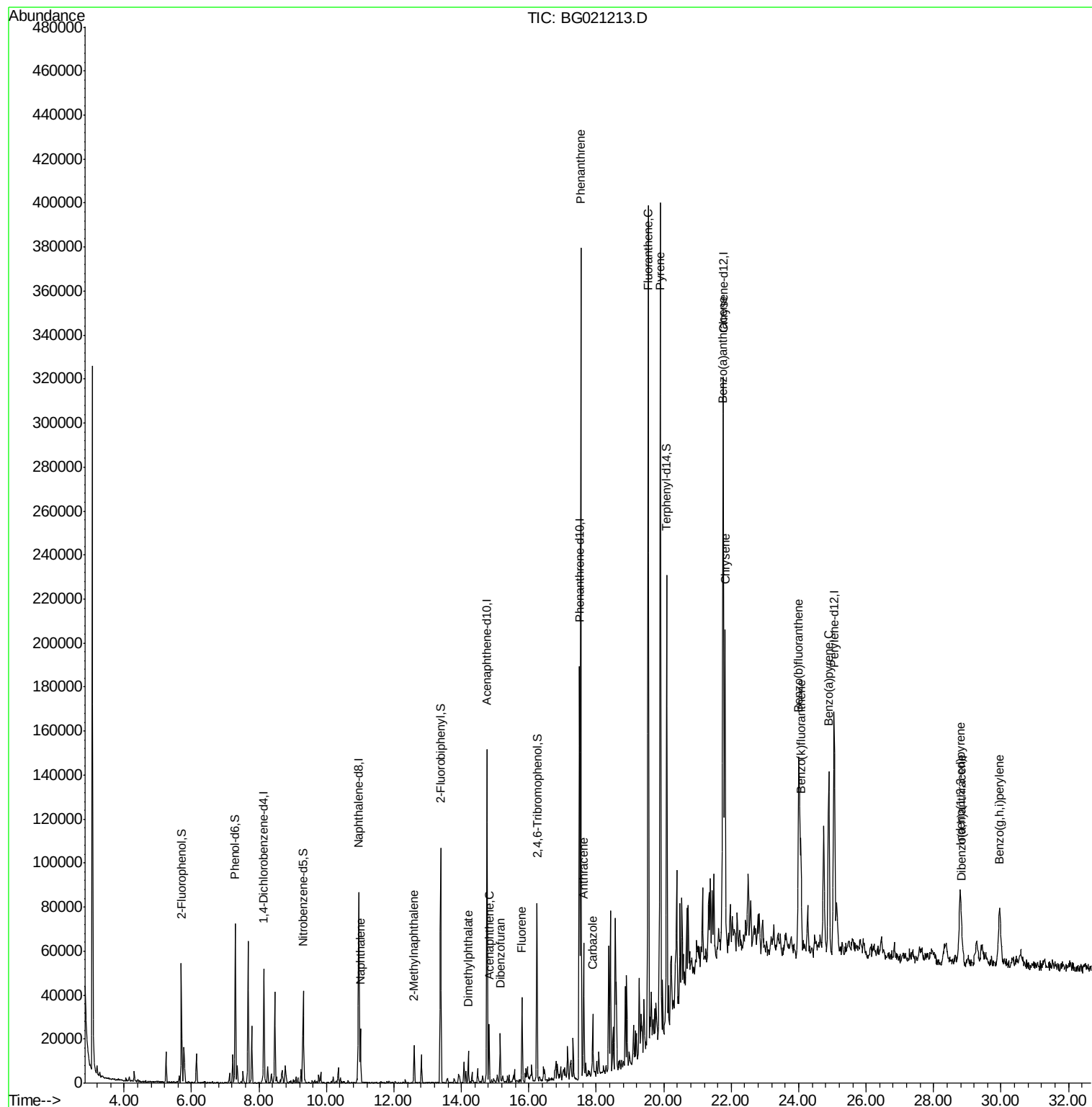
Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\
Data File : BG021213.D
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ALS Vial : 5 Sample Multiplier: 1

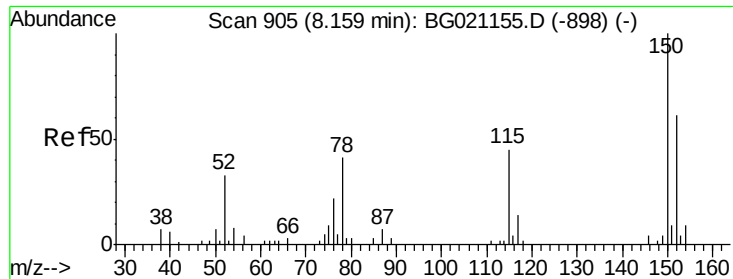
Instrument :
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ClientSampleId :
CEB-2(2.5-5)20160223DL

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#1

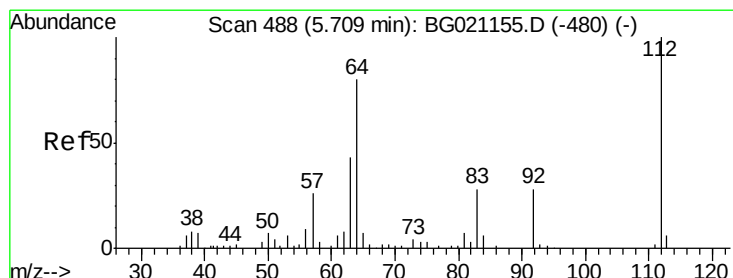
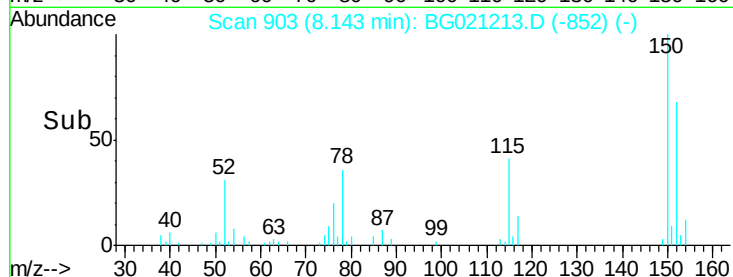
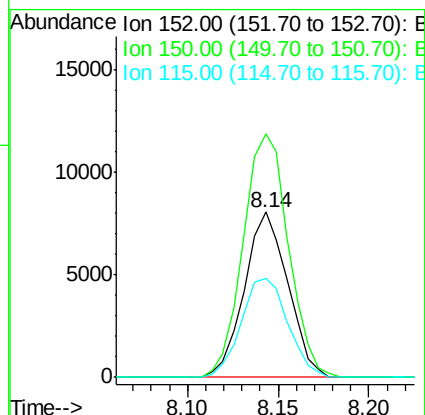
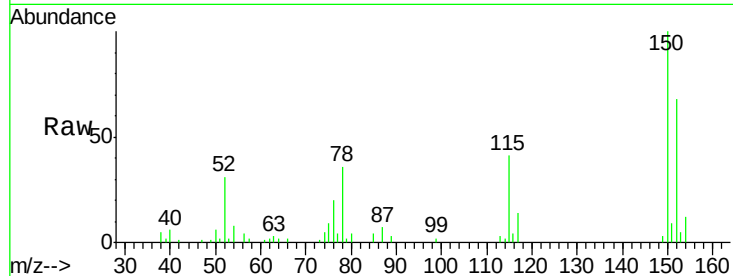
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 903
Delta R.T. 0.00 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.1	123.4	185.2
115	60.0	43.3	64.9

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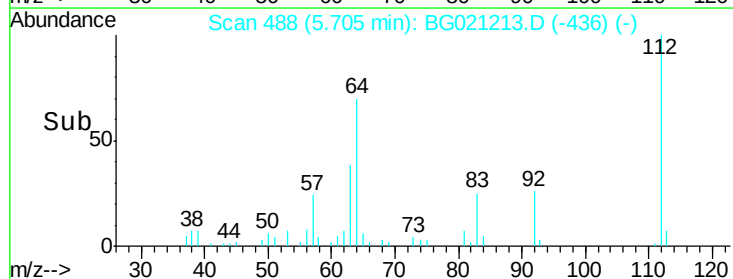
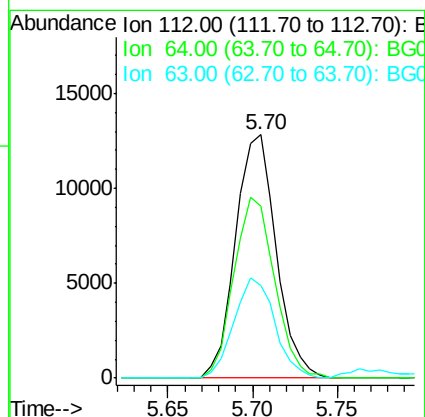
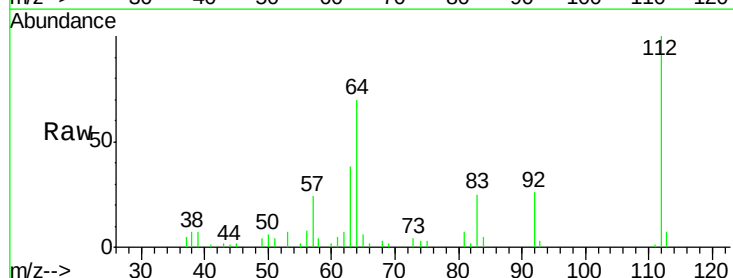
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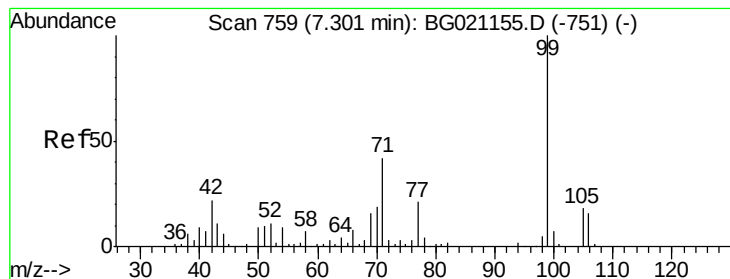


#5

2-Fluorophenol
Concen: 25.39 ng
RT: 5.70 min Scan# 488
Delta R.T. 0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.4	42.6	63.8#
63	37.9	21.7	32.5#





#7

Phenol-d6

Concen: 27.90 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.01 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Instrument :

BNA_G

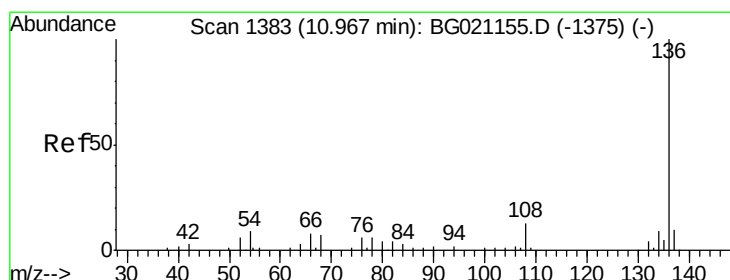
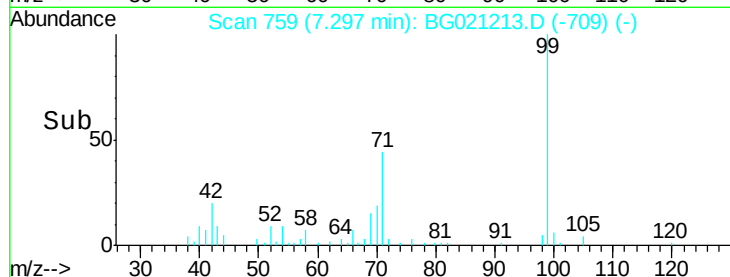
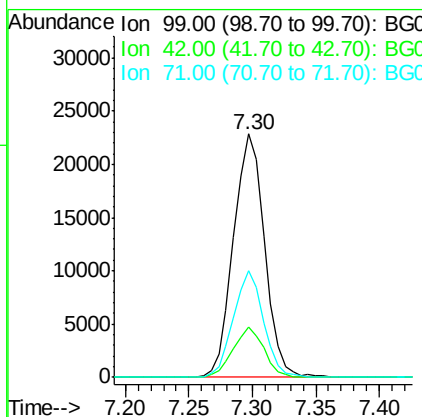
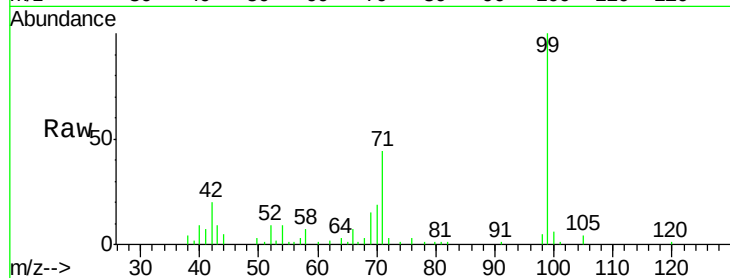
ClientSampleId :

CEB-2(2.5-5)20160223DL

Tot Ion:	99	Resp:	38815
Ion Ratio	Lower	Upper	
99	100		
42	20.4	13.2	19.8#
71	43.7	25.2	37.8#

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.00 ng

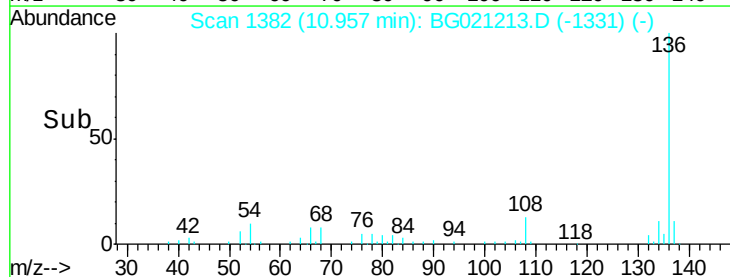
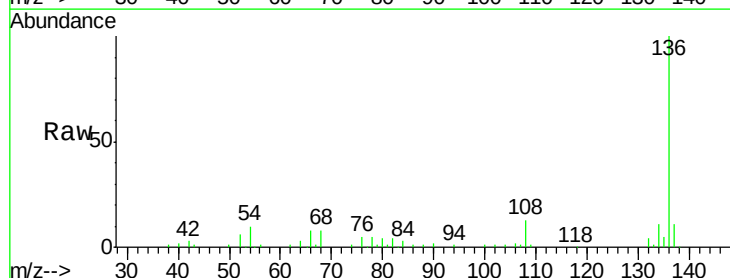
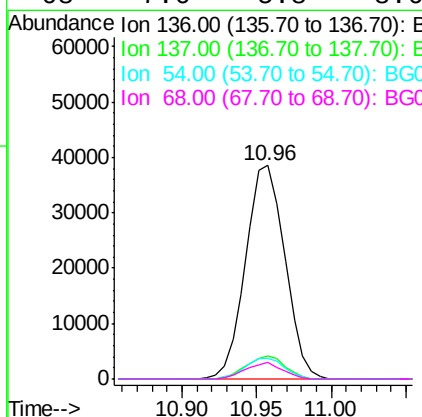
RT: 10.96 min Scan# 1382

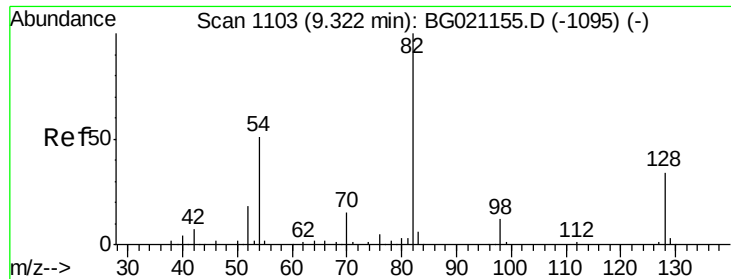
Delta R.T. 0.00 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Tgt Ion:	136	Resp:	70121
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.8	13.2
54	9.5	6.9	10.3
68	7.6	5.8	8.6





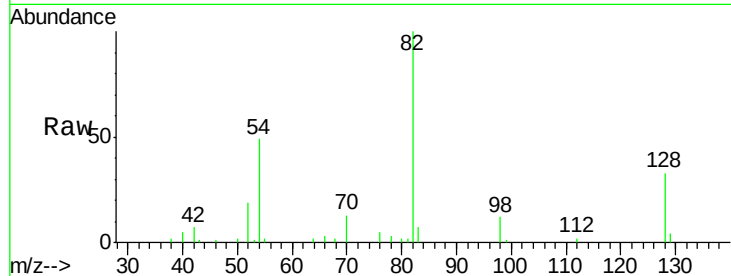
#23
 Nitrobenzene-d5
 Concen: 16.35 ng
 RT: 9.31 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	32.6	36.3	54.5#
54	48.7	37.6	56.4

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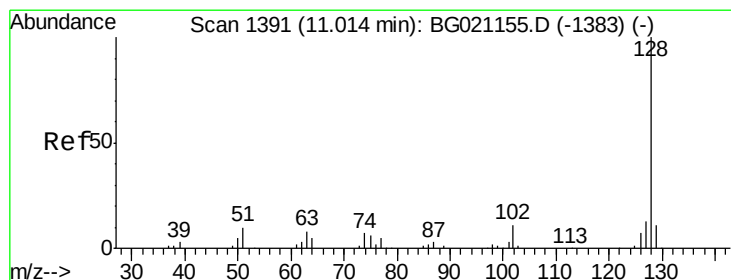
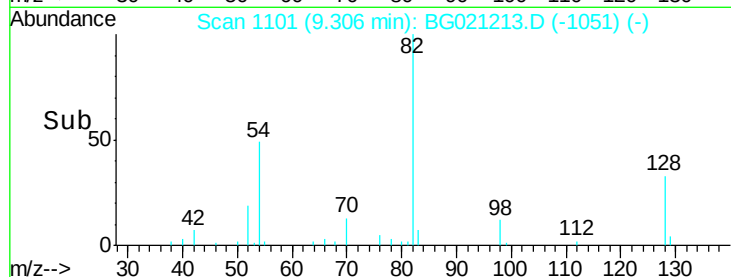
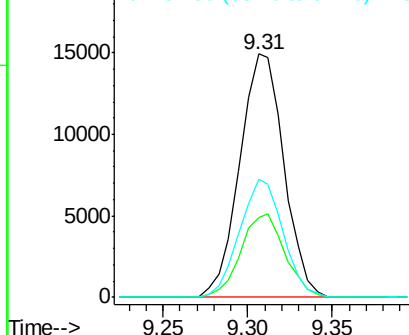


Abundance

Ion 82.00 (81.70 to 82.70): BGC

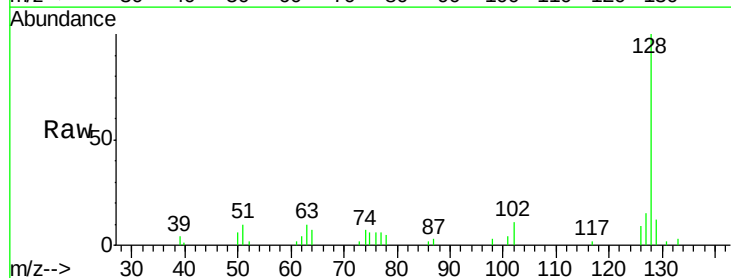
Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#31
 Naphthalene
 Concen: 5.07 ng
 RT: 11.00 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.4	14.2
127	14.6	10.8	16.2

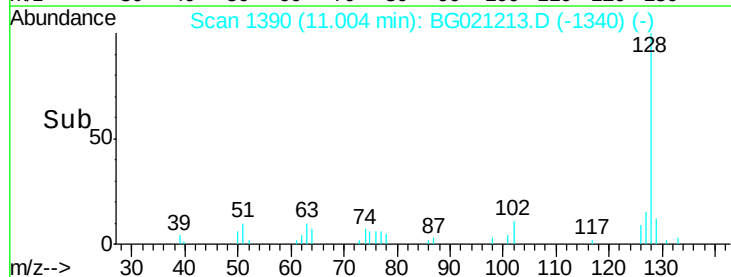
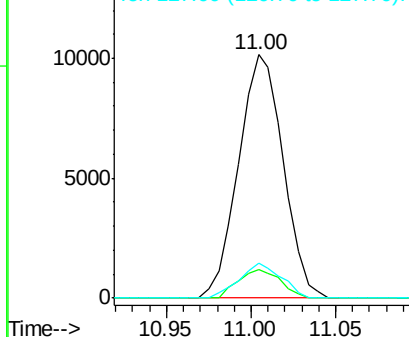


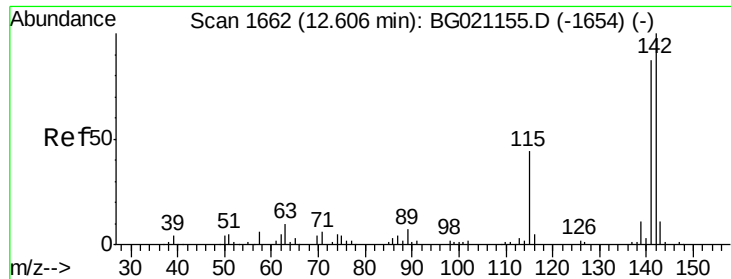
Abundance

Ion 128.00 (127.70 to 128.70): BGC

Ion 129.00 (128.70 to 129.70): BGC

Ion 127.00 (126.70 to 127.70): BGC





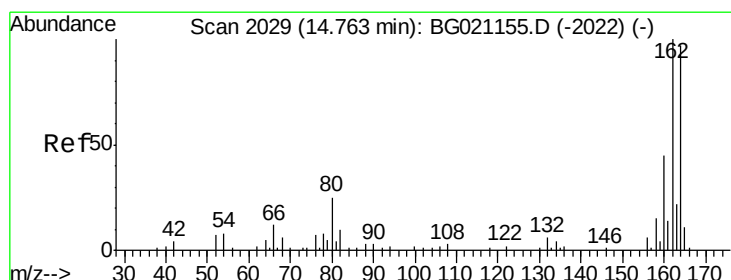
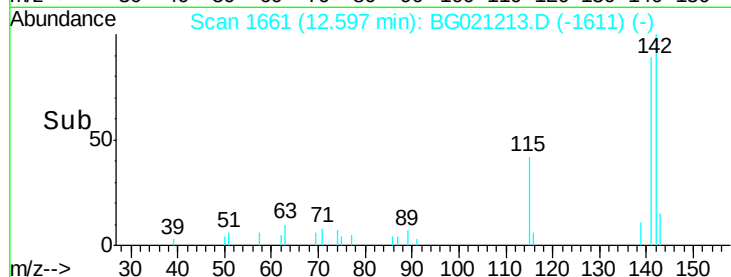
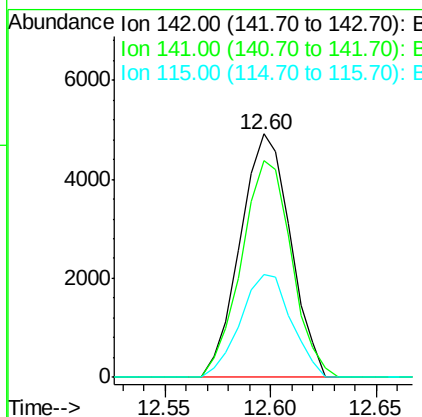
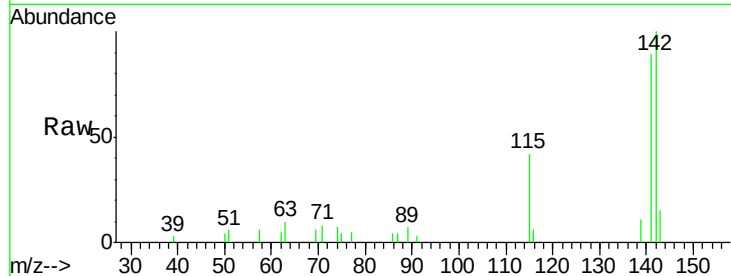
#37
2-Methylnaphthalene
Concen: 3.11 ng
RT: 12.60 min Scan# 1661
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.7	107.5
115	42.4	26.2	39.4

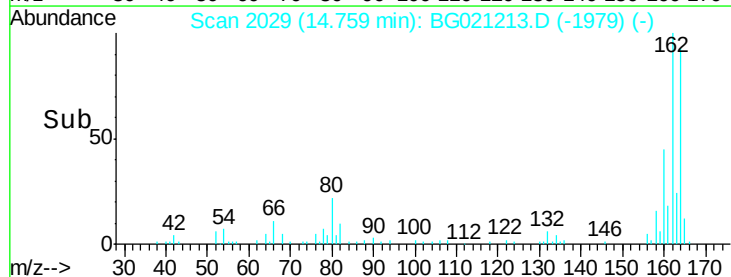
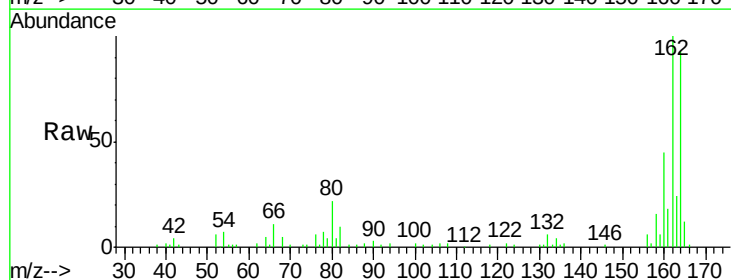
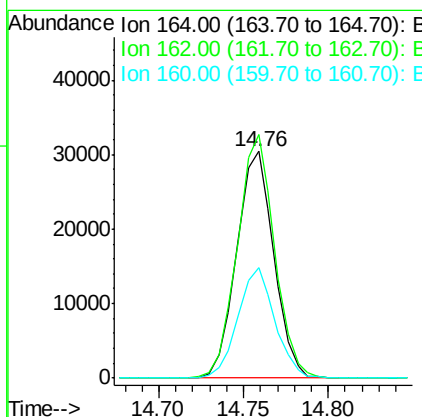
Manual Integrations
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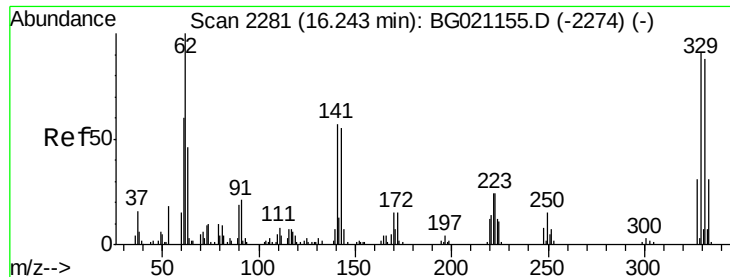
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.76 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.6	80.6	120.8
160	48.9	36.5	54.7





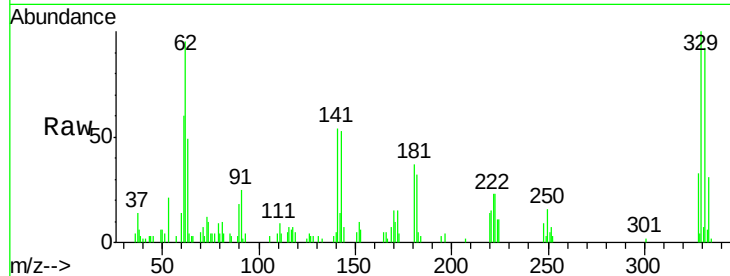
#41
 2,4,6-Tribromophenol
 Concen: 20.74 ng
 RT: 16.24 min Scan# 2281
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-2(2.5-5)20160223DL

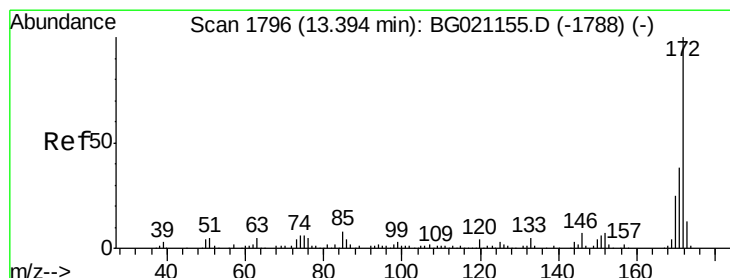
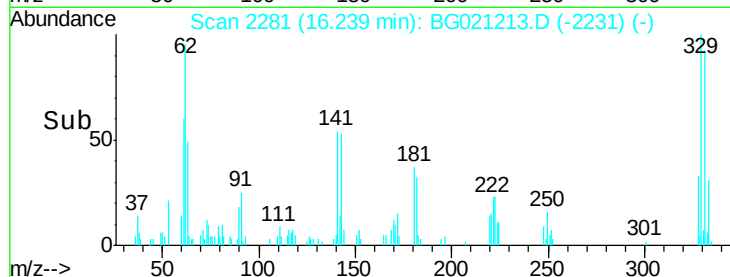
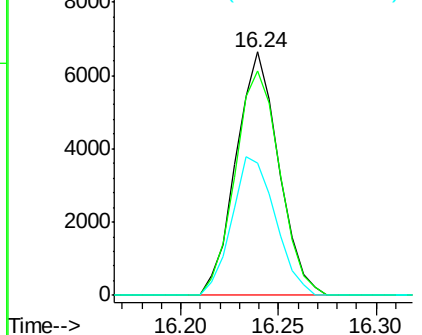
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	77.4	116.0	
141	58.3	35.3	52.9#	

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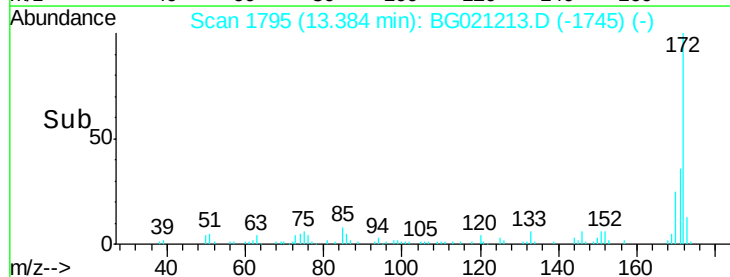
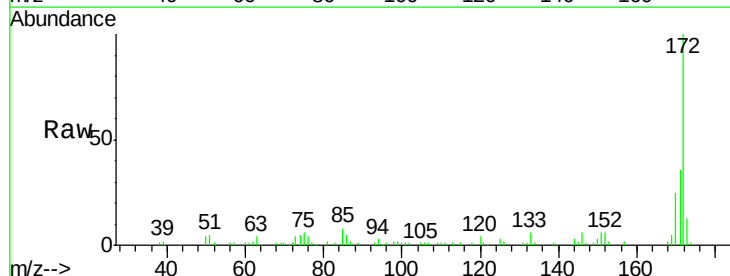
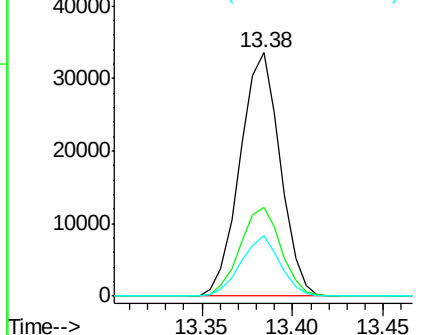
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

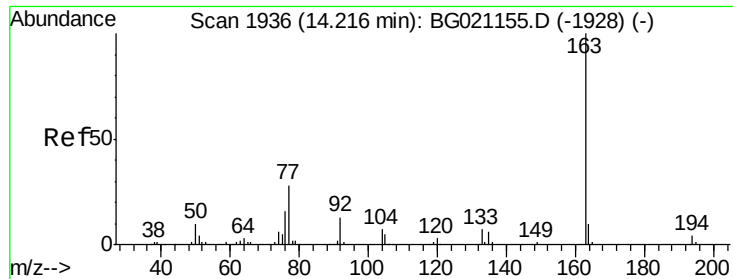


#44
 2-Fluorobiphenyl
 Concen: 15.74 ng
 RT: 13.38 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.4	29.4	44.0	
170	24.6	19.8	29.8	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





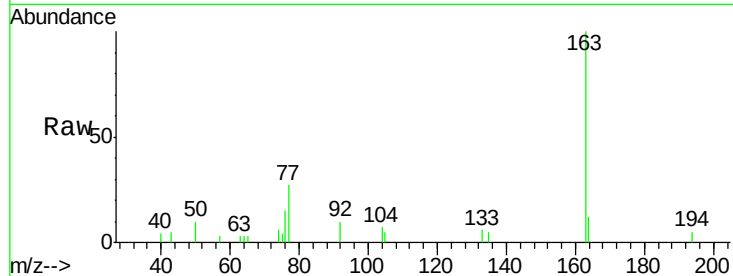
#49
Dimethylphthalate
Concen: 2.17 ng
RT: 14.20 min Scan# 1934
Delta R.T. -0.02 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	8985		
194	4.7		2.8	4.2#
164	12.1		7.9	11.9#

Manual Integrations
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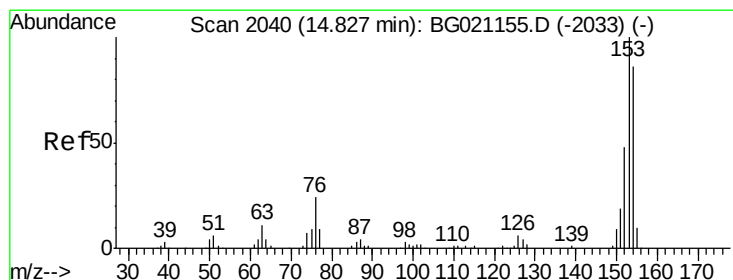
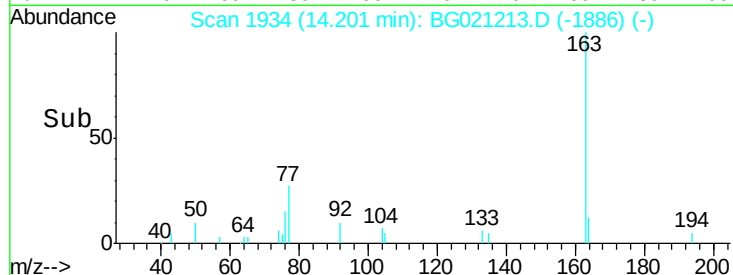
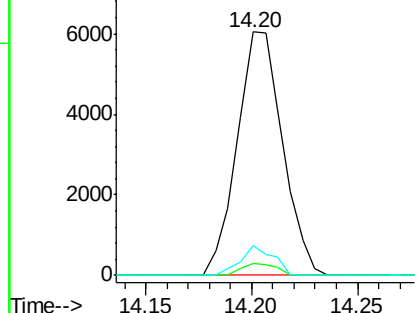


Abundance

Ion 163.00 (162.70 to 163.70): E

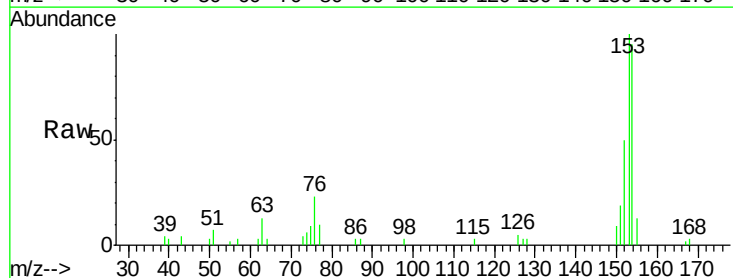
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 3.01 ng
RT: 14.82 min Scan# 2040
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	9294		
153	105.3		94.2	141.2
152	52.8		42.9	64.3

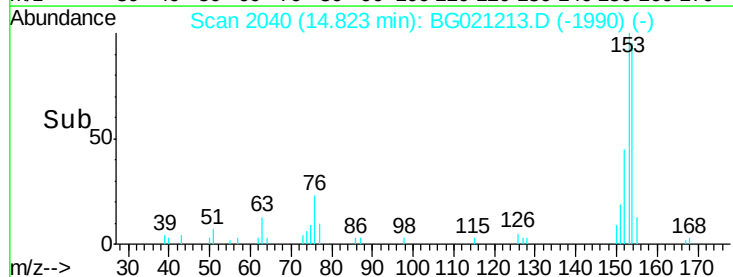
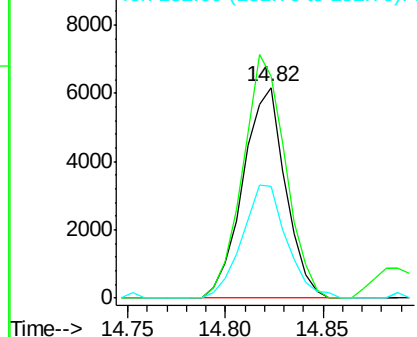


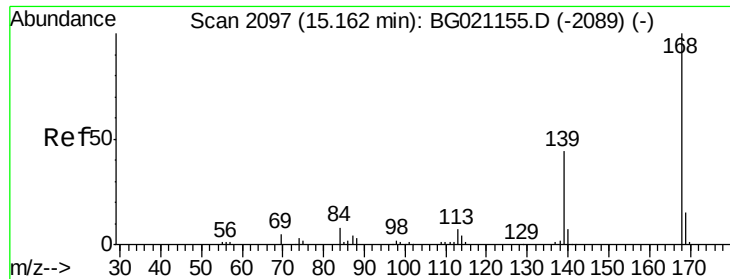
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





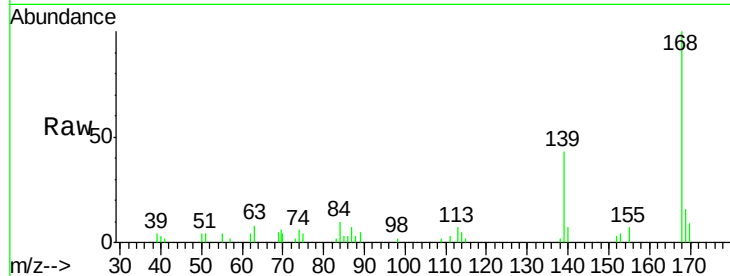
#54
Dibenzenofuran
Concen: 2.81 ng
RT: 15.15 min Scan# 2096
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

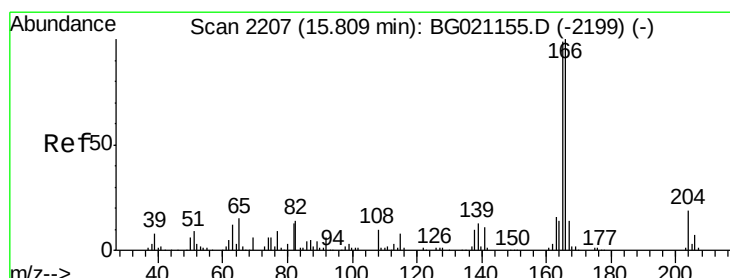
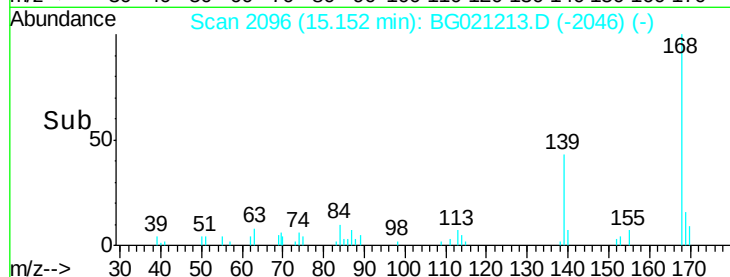
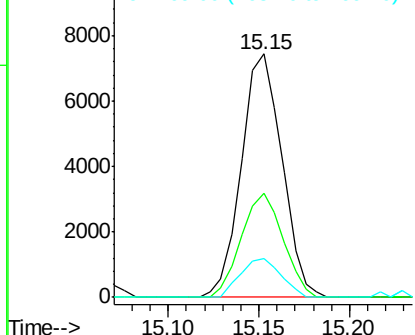
Tot Ion	Ratio	Lower	Upper
168	100		
139	42.7	29.8	44.8
169	15.8	11.4	17.2

Manual Integrations
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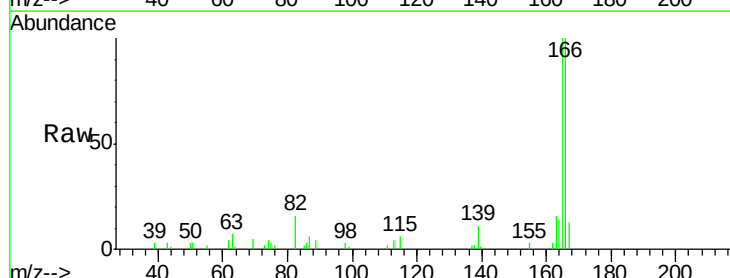


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

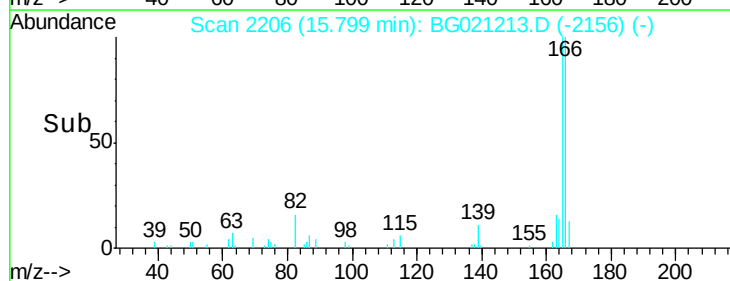
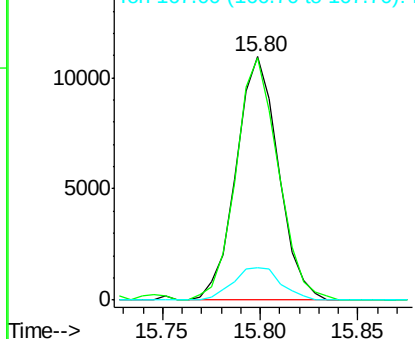


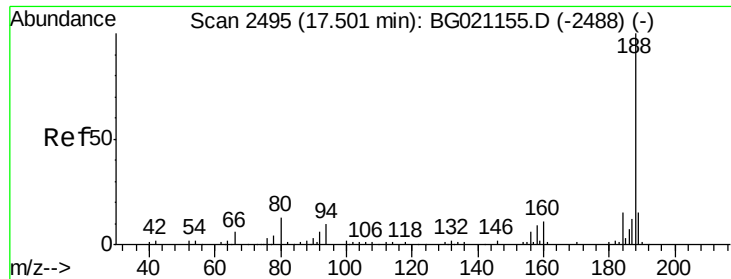
#57
Fluorene
Concen: 4.17 ng
RT: 15.80 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	81.3	121.9
167	13.3	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





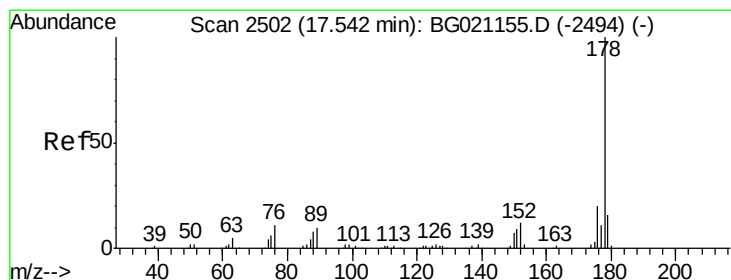
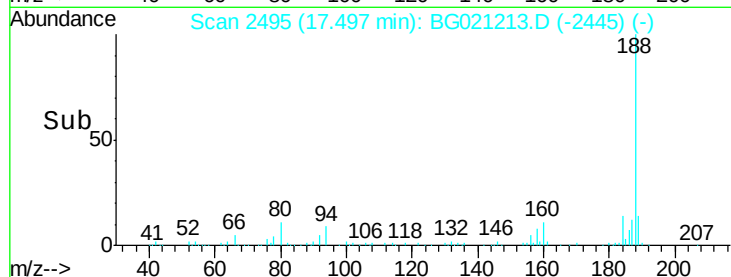
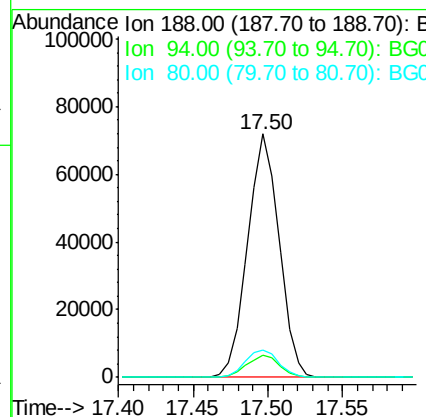
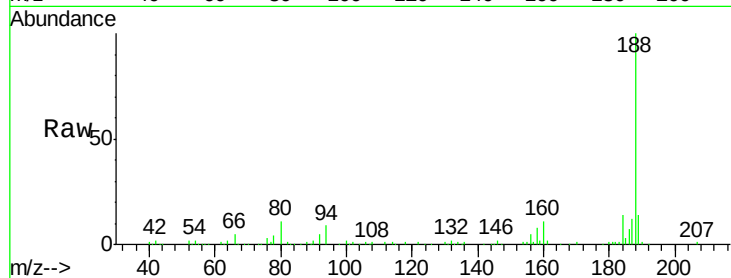
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.50 min Scan# 2495
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.0	8.2	12.4
80	11.1	9.2	13.8

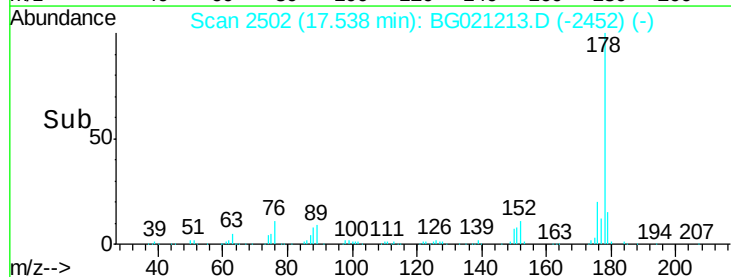
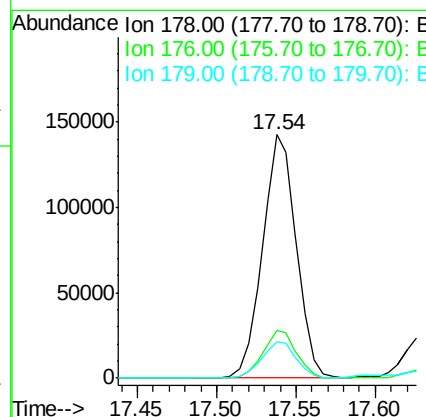
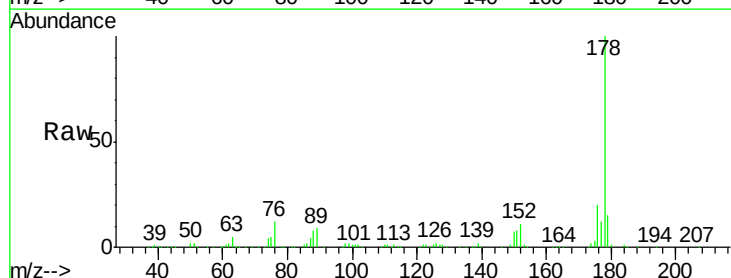
Manual Integrations
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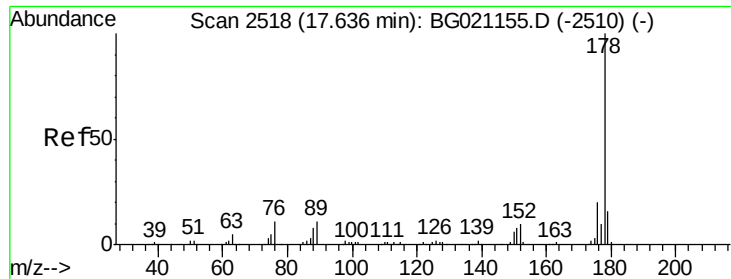
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#70
Phenanthrene
Concen: 37.04 ng
RT: 17.54 min Scan# 2502
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.6	16.2	24.4
179	15.1	12.9	19.3





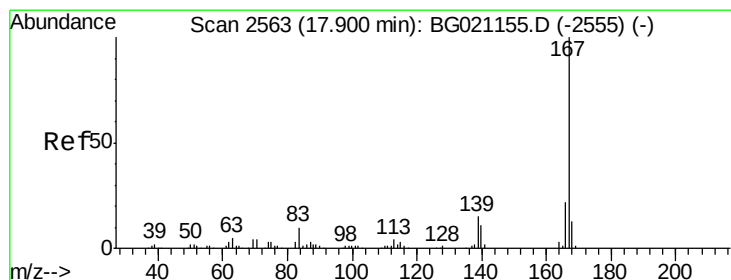
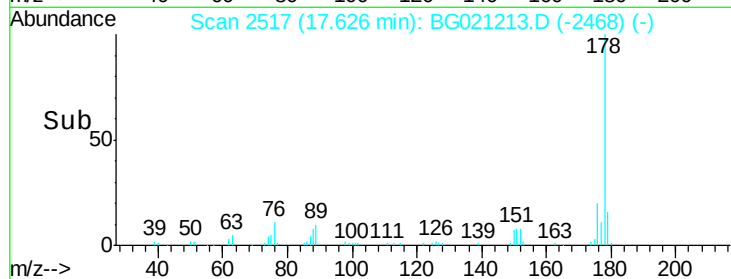
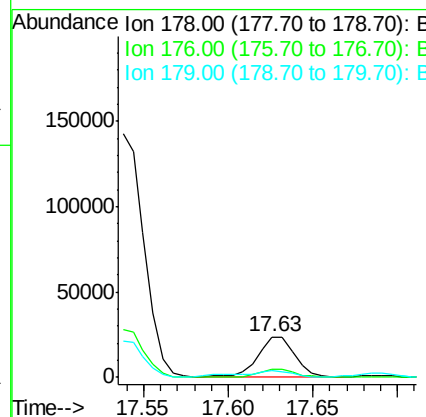
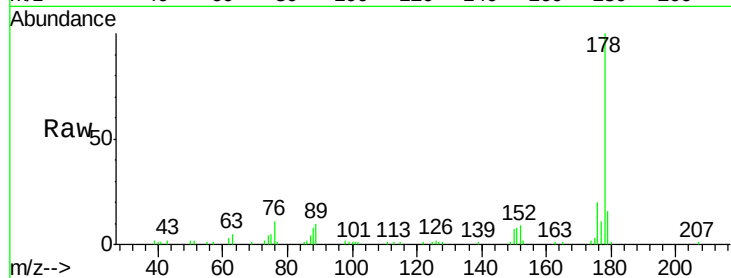
#71
 Anthracene
 Concen: 6.07 ng
 RT: 17.63 min Scan# 2517
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	14.8	22.2
179	16.3	12.6	19.0

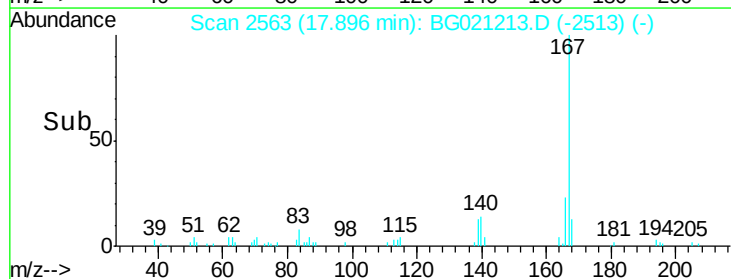
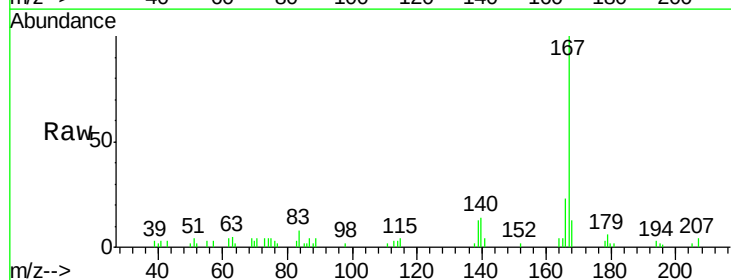
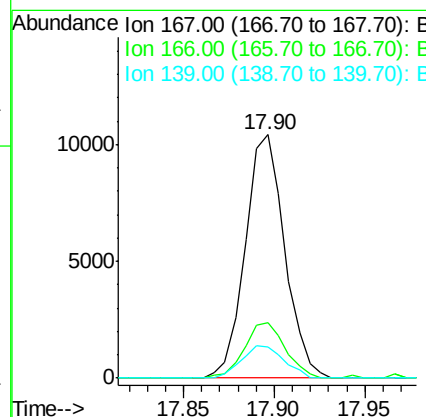
Manual Integrations
 APPROVED

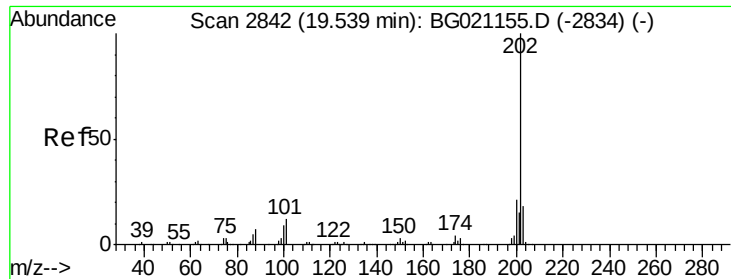
Sohil
 3/3/2016 8:23:04 AM



#72
 Carbazole
 Concen: 3.05 ng
 RT: 17.90 min Scan# 2563
 Delta R.T. -0.01 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.5	26.3
139	13.0	10.3	15.5





#74

Fluoranthene

Concen: 32.87 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.01 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Instrument :

BNA_G

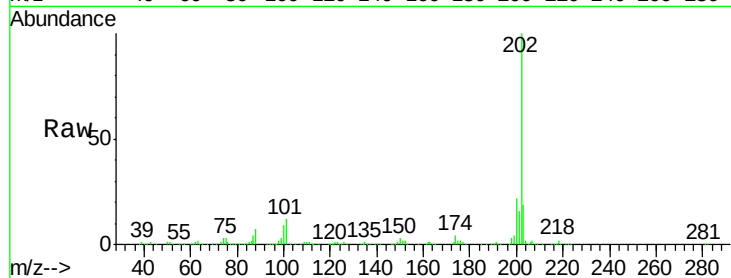
ClientSampleId :

CEB-2(2.5-5)20160223DL

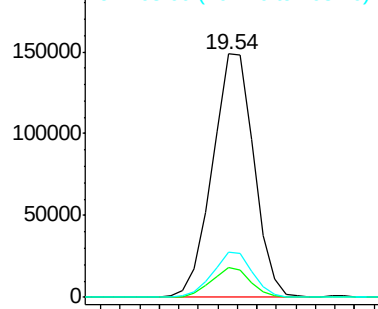
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		218949		
101	12.0	0.0	32.5		
203	18.5	0.0	37.6		

Manual Integrations
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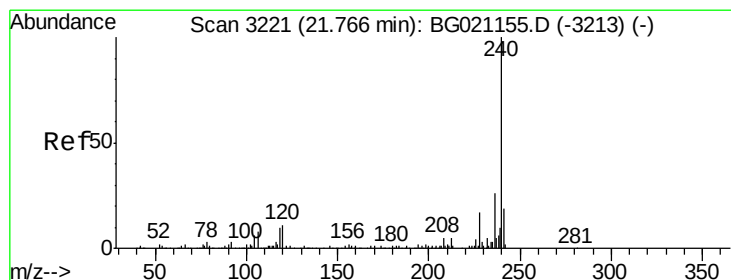
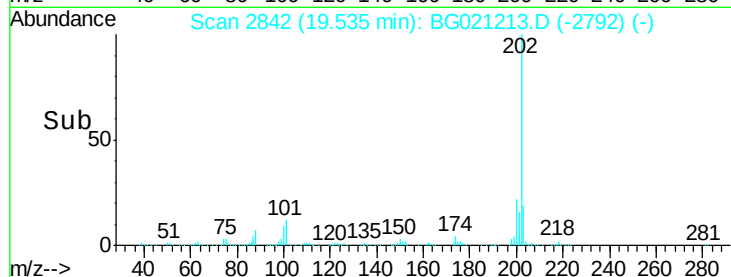
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

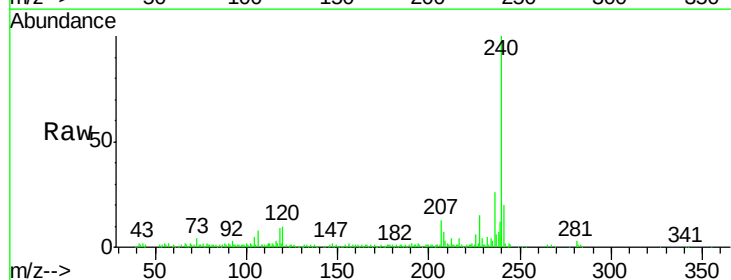
RT: 21.77 min Scan# 3222

Delta R.T. -0.01 min

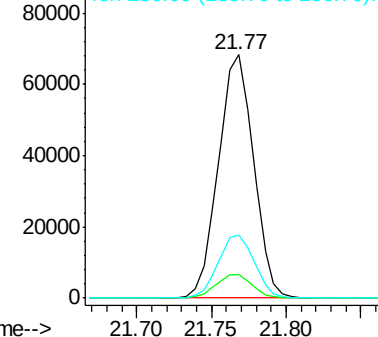
Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

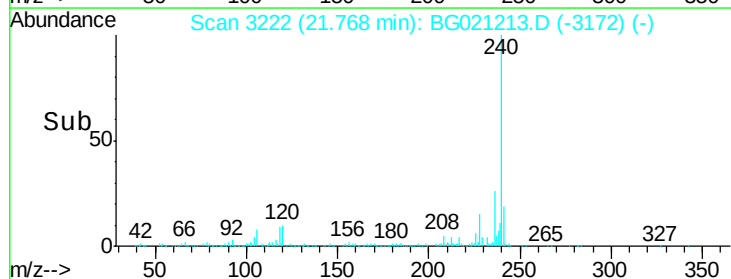
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		111242		
120	9.6	7.5	11.3		
236	25.9	20.5	30.7		

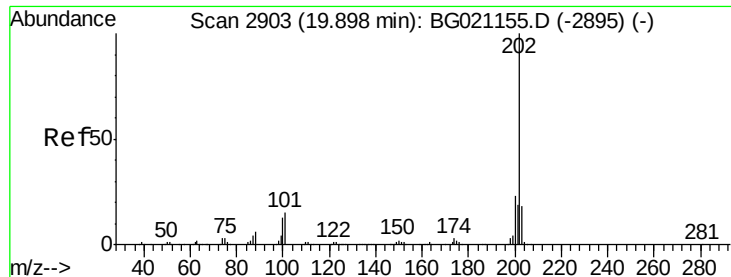


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pvrene

Concen: 32.88 ng

RT: 19.90 min Scan# 2904

Delta R.T. -0.01 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Instrument :

BNA_G

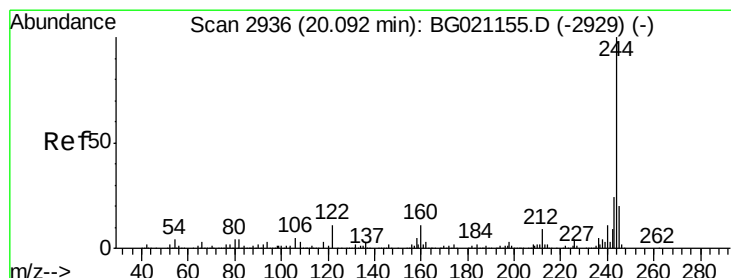
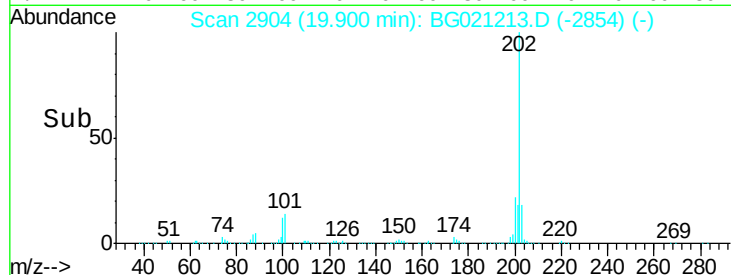
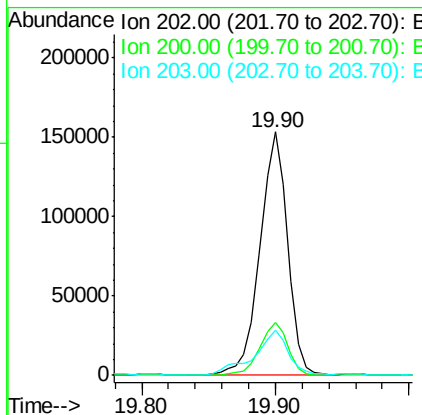
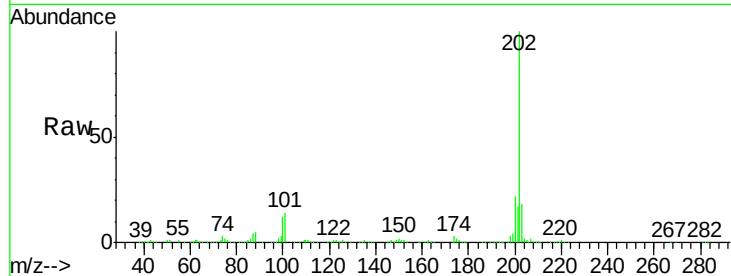
ClientSampleId :

CEB-2(2.5-5)20160223DL

Tot Ion:	202	Resp:	218217
Ion Ratio		Lower	Upper
202	100		
200	21.8	16.6	25.0
203	18.4	13.8	20.8

Manual Integrations
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#78

Terphenyl-d14

Concen: 15.97 ng

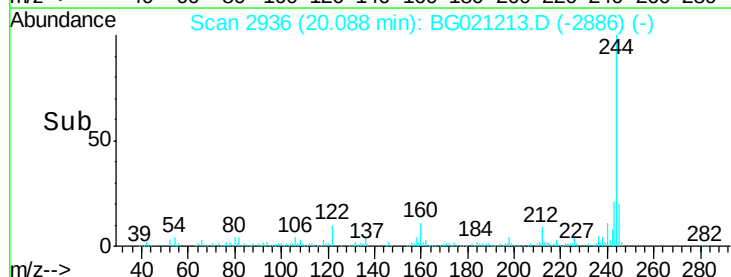
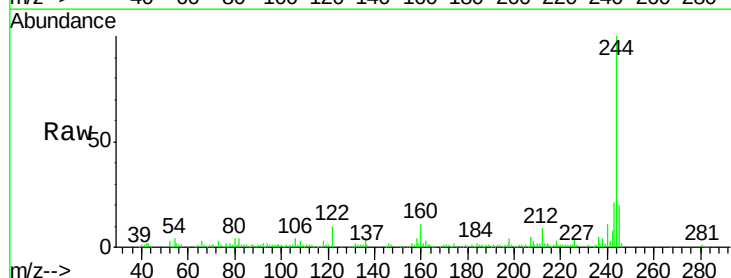
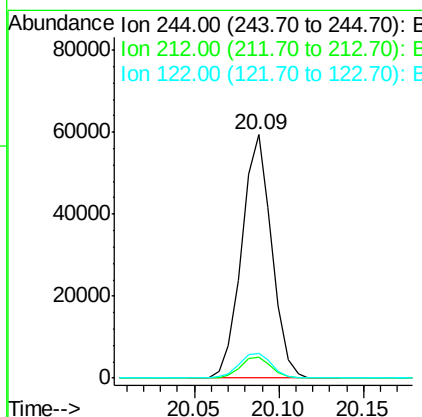
RT: 20.09 min Scan# 2936

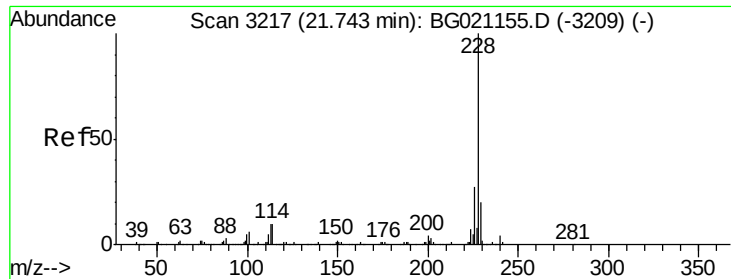
Delta R.T. -0.01 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Tgt Ion:	244	Resp:	73354
Ion Ratio		Lower	Upper
244	100		
212	8.8	5.8	8.6#
122	10.4	8.3	12.5





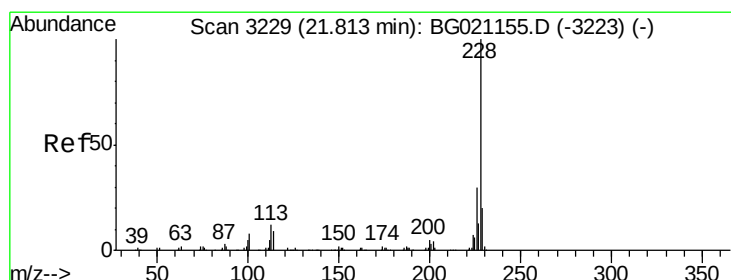
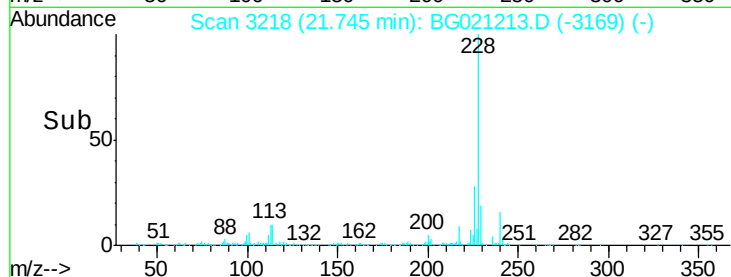
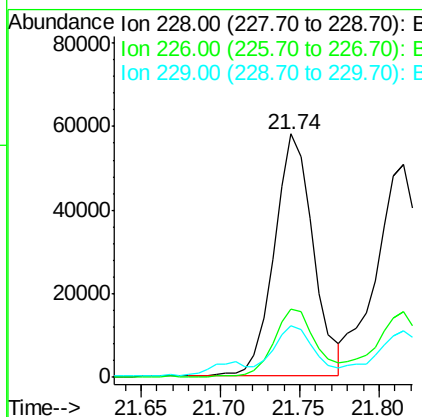
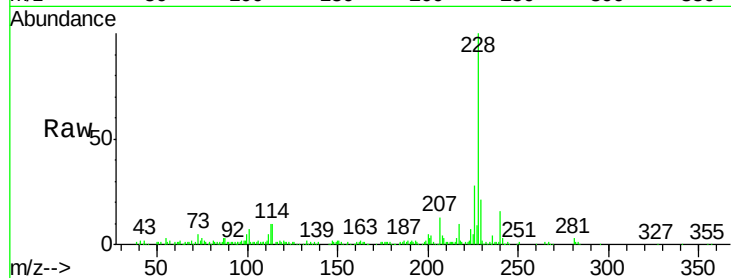
#80
Benzo(a)anthracene
Concen: 15.05 ng
RT: 21.74 min Scan# 3218
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion:	228	Resp:	99109
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.7	34.1
229	21.3	15.5	23.3

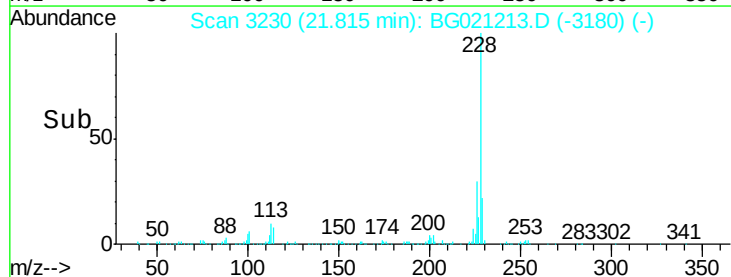
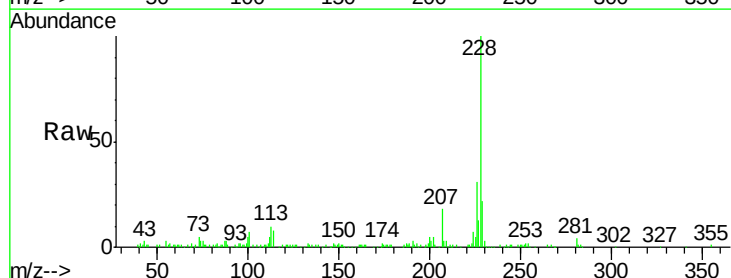
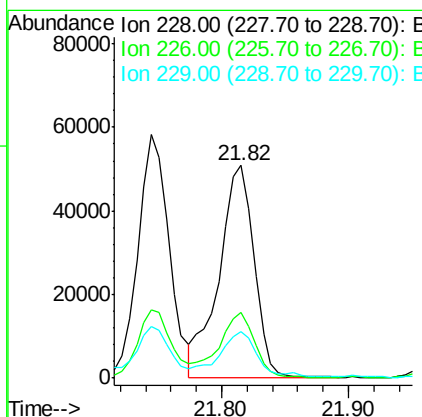
Manual Integrations
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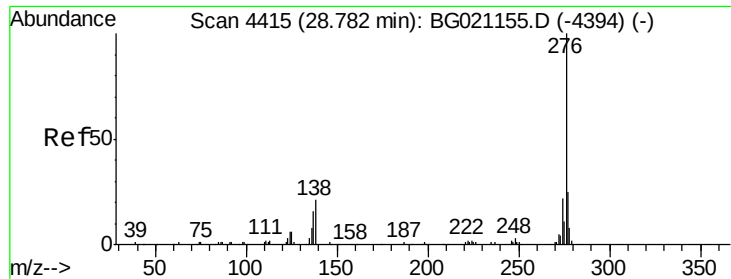
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3/3/2016 8:23:04 AM



#82
Chrysene
Concen: 15.58 ng
RT: 21.82 min Scan# 3230
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion:	228	Resp:	97252
Ion Ratio	Lower	Upper	
228	100		
226	30.9	23.7	35.5
229	22.1	16.7	25.1





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.13 ng

RT: 28.79 min Scan# 4417

Delta R.T. -0.03 min

Lab File: BG021213.D

Acq: 2 Mar 2016 15:04

Instrument :

BNA_G

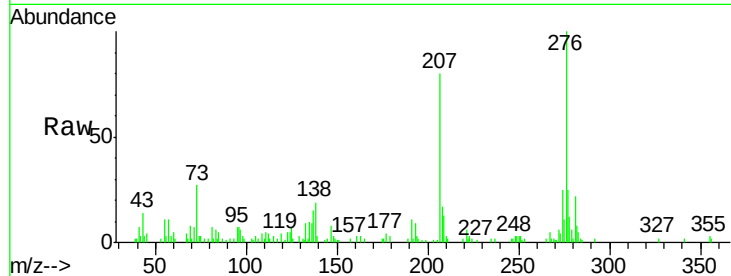
ClientSampleId :

CEB-2(2.5-5)20160223DL

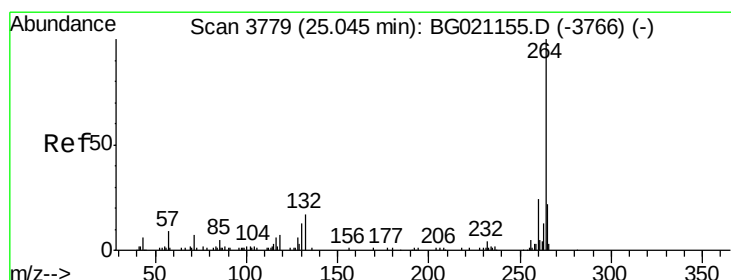
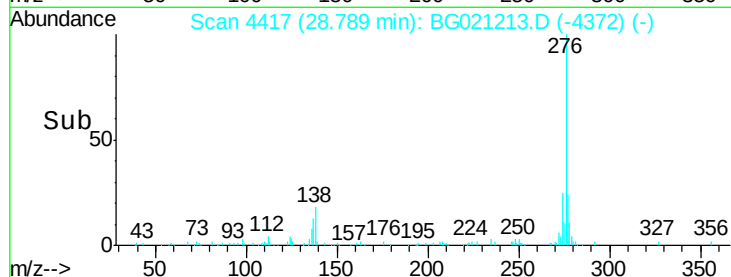
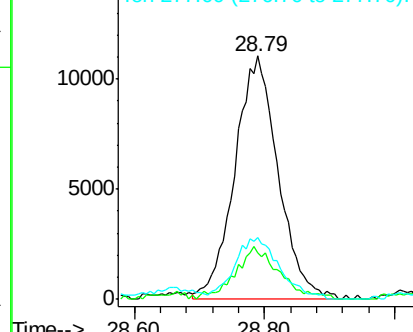
Tot Ion:	276	Resp:	51016
Ion Ratio	Lower	Upper	
276	100		
138	21.1	16.0	24.0
277	26.2	16.0	24.0

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



#86

Perylene-d12

Concen: 20.00 ng

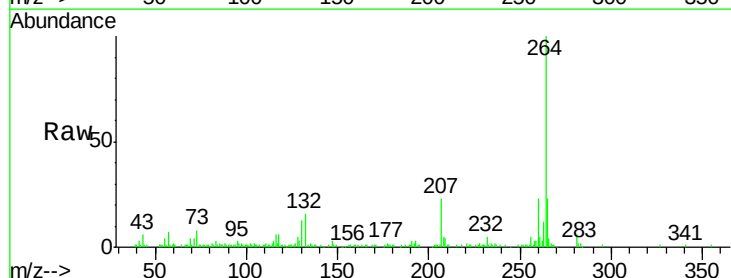
RT: 25.05 min Scan# 3781

Delta R.T. -0.01 min

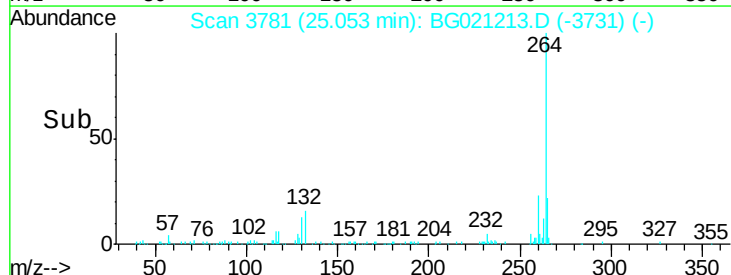
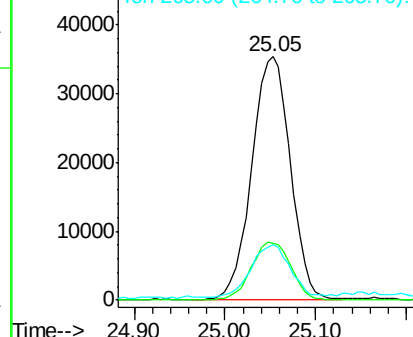
Lab File: BG021213.D

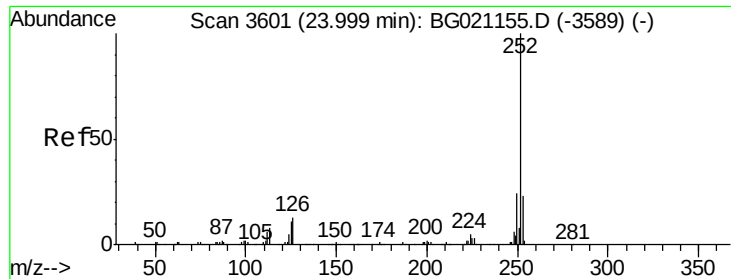
Acq: 2 Mar 2016 15:04

Tgt Ion:	264	Resp:	104691
Ion Ratio	Lower	Upper	
264	100		
260	23.3	18.5	27.7
265	22.8	18.6	28.0



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





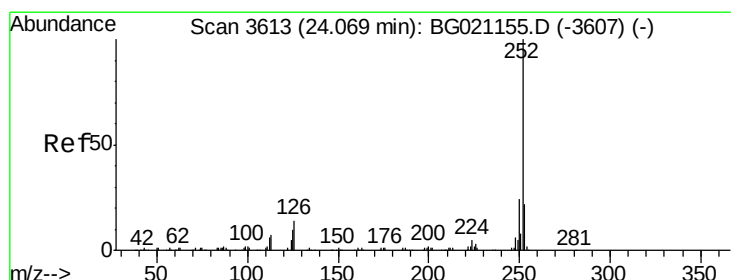
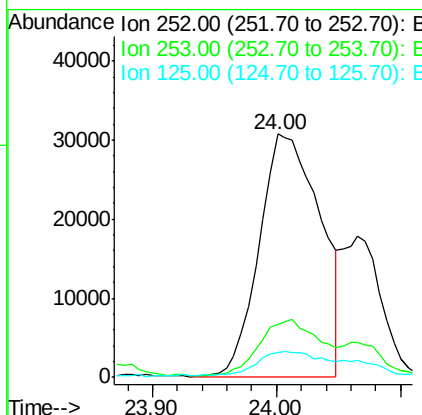
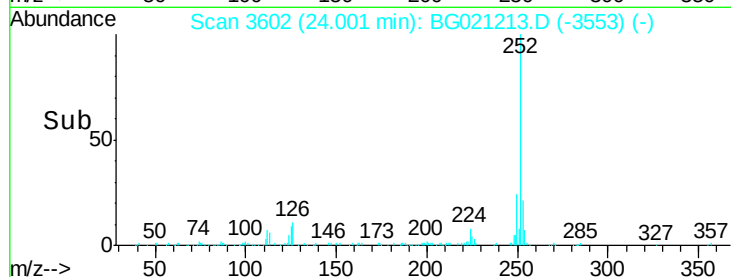
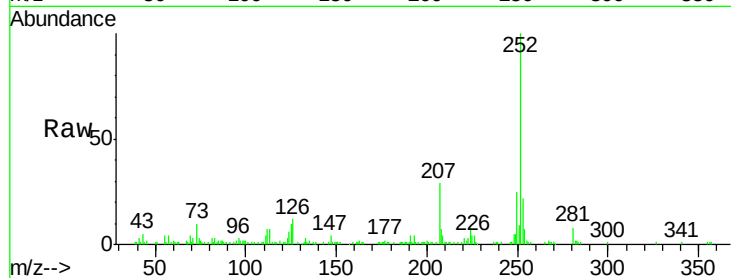
#87
Benzo(b)fluoranthene
Concen: 16.08 ng m
RT: 24.00 min Scan# 3602
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	16.8	25.2
125	10.0	8.2	12.2

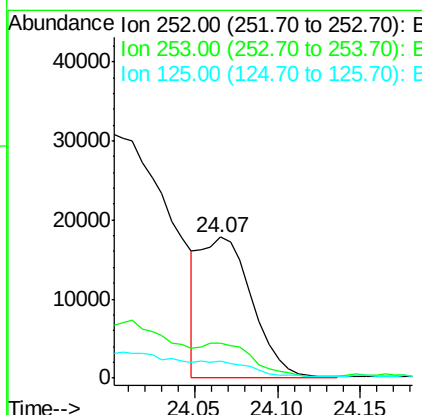
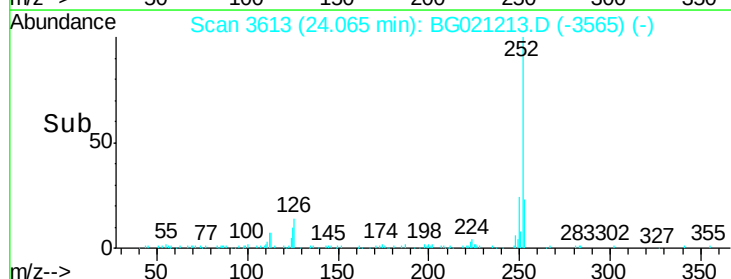
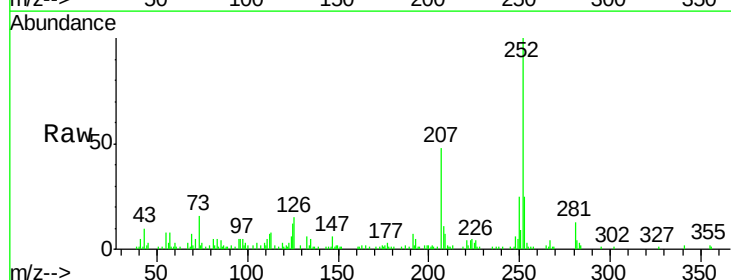
Manual Integrations
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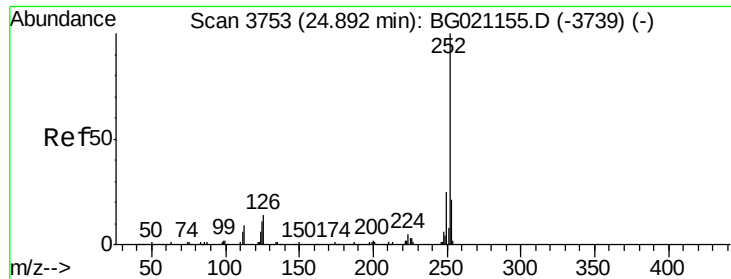
Sohil
3/3/2016 8:23:04 AM



#88
Benzo(k)fluoranthene
Concen: 5.90 ng m
RT: 24.07 min Scan# 3613
Delta R.T. -0.02 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	16.4	24.6#
125	12.4	8.2	12.2#





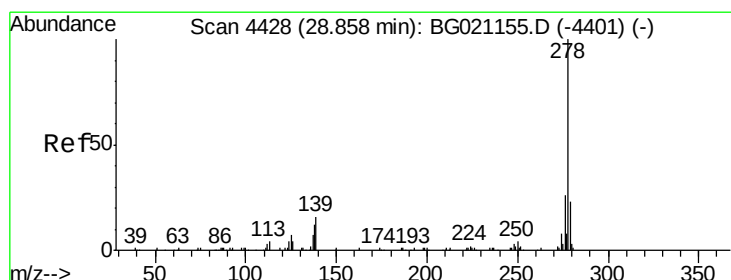
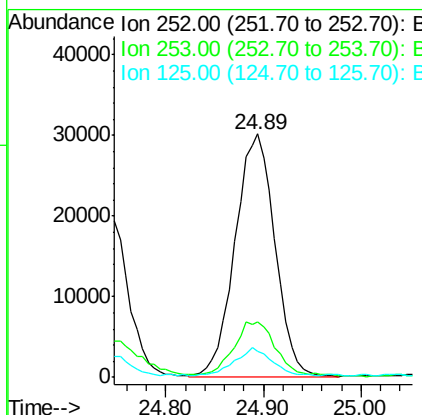
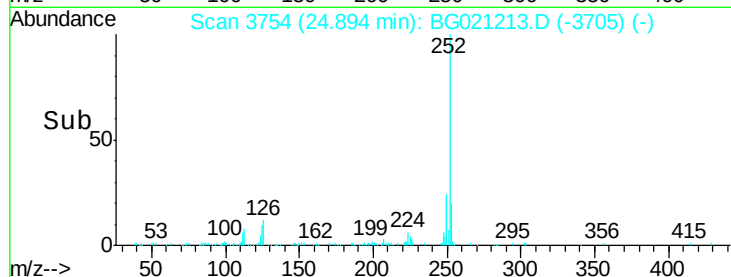
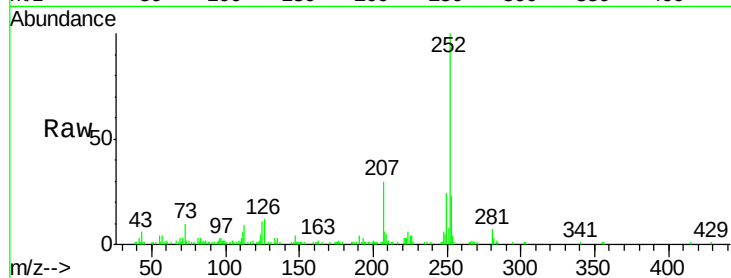
#89
Benzo(a)pyrene
Concen: 13.57 ng
RT: 24.89 min Scan# 3754
Delta R.T. -0.01 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Instrument :
BNA_G
ClientSampleId :
CEB-2(2.5-5)20160223DL

Tot Ion:	252	Resp:	86399
Ion Ratio	Lower	Upper	
252	100		
253	23.0	15.8	23.8
125	10.9	8.4	12.6

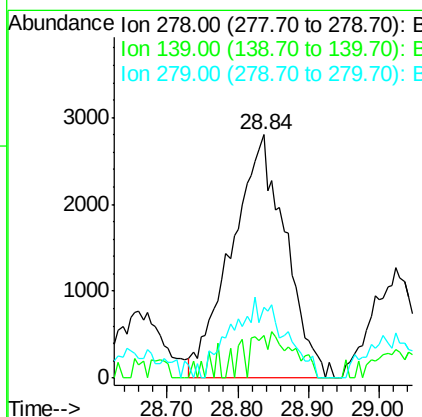
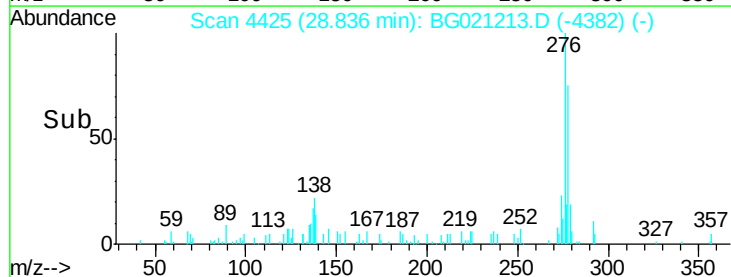
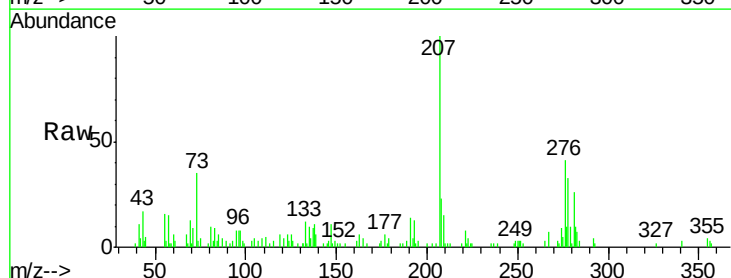
Manual Integrations
APPROVED

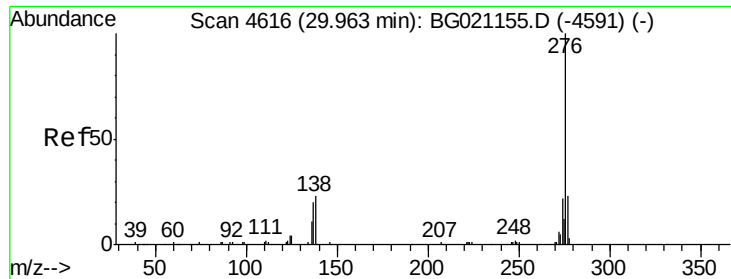
Sohil
3/3/2016 8:23:04 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.36 ng
RT: 28.84 min Scan# 4425
Delta R.T. -0.05 min
Lab File: BG021213.D
Acq: 2 Mar 2016 15:04

Tgt Ion:	278	Resp:	14862
Ion Ratio	Lower	Upper	
278	100		
139	17.3	10.6	15.8#
279	29.0	19.7	29.5





#91
 Benzo(a,h,i)perylene
 Concen: 8.08 ng
 RT: 29.96 min Scan# 4617
 Delta R.T. -0.03 min
 Lab File: BG021213.D
 Acq: 2 Mar 2016 15:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-2(2.5-5)20160223DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.1	16.6	25.0#
138	19.3	14.6	21.8

Manual Integrations
 APPROVED

Sohil
 3/3/2016 8:23:04 AM

