

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
 Data File : BF085609.D
 Acq On : 20 Mar 2016 10:21
 Operator : UM/SJ
 Sample : H1815-10
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-COMP

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:11:32 PM

Quant Time: Mar 21 12:35:12 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	120911	20.00	ng	-0.01
21) Naphthalene-d8	8.14	136	502260	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	193936	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	309079	20.00	ng	-0.01
75) Chrysene-d12	14.03	240	231125	20.00	ng	0.01
86) Perylene-d12	15.47	264	225420	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	772912	107.37	ng	0.00
7) Phenol-d6	6.49	99	1131547	122.56	ng	0.00
23) Nitrobenzene-d5	7.42	82	664214	76.76	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	167516	88.18	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	811229	67.82	ng	-0.01
78) Terphenyl-d14	12.96	244	503397	52.41	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	225829	8.91	ng	98
37) 2-Methylnaphthalene	8.85	142	73967	4.79	ng	98
48) Acenaphthylene	9.75	152	212445	10.74	ng	98
49) Dimethylphthalate	9.61	163	162063	11.07	ng	98
51) Acenaphthene	9.92	154	123277	9.93	ng	98
54) Dibenzofuran	10.09	168	165113	10.92	ng	95
57) Fluorene	10.44	166	203878	16.19	ng	99
70) Phenanthrene	11.41	178	1841359	112.99	ng	98
71) Anthracene	11.45	178	495940	29.02	ng	98
72) Carbazole	11.60	167	212380	14.41	ng	98
74) Fluoranthene	12.60	202	2091253	122.55	ng	94
77) Pyrene	12.83	202	1988864	119.85	ng	97
80) Benzo(a)anthracene	14.01	228	1106417m	82.46	ng	
82) Chrysene	14.05	228	1007104m	78.02	ng	
85) Indeno(1,2,3-cd)pyrene	16.88	276	462273	42.86	ng	# 92
87) Benzo(b)fluoranthene	15.05	252	1551494m	105.48	ng	
88) Benzo(k)fluoranthene	15.08	252	147787m	12.20	ng	
89) Benzo(a)pyrene	15.41	252	870738	69.83	ng	96
90) Dibenzo(a,h)anthracene	16.88	278	113961m	10.96	ng	
91) Benzo(g,h,i)perylene	17.31	276	401958	39.93	ng	98

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

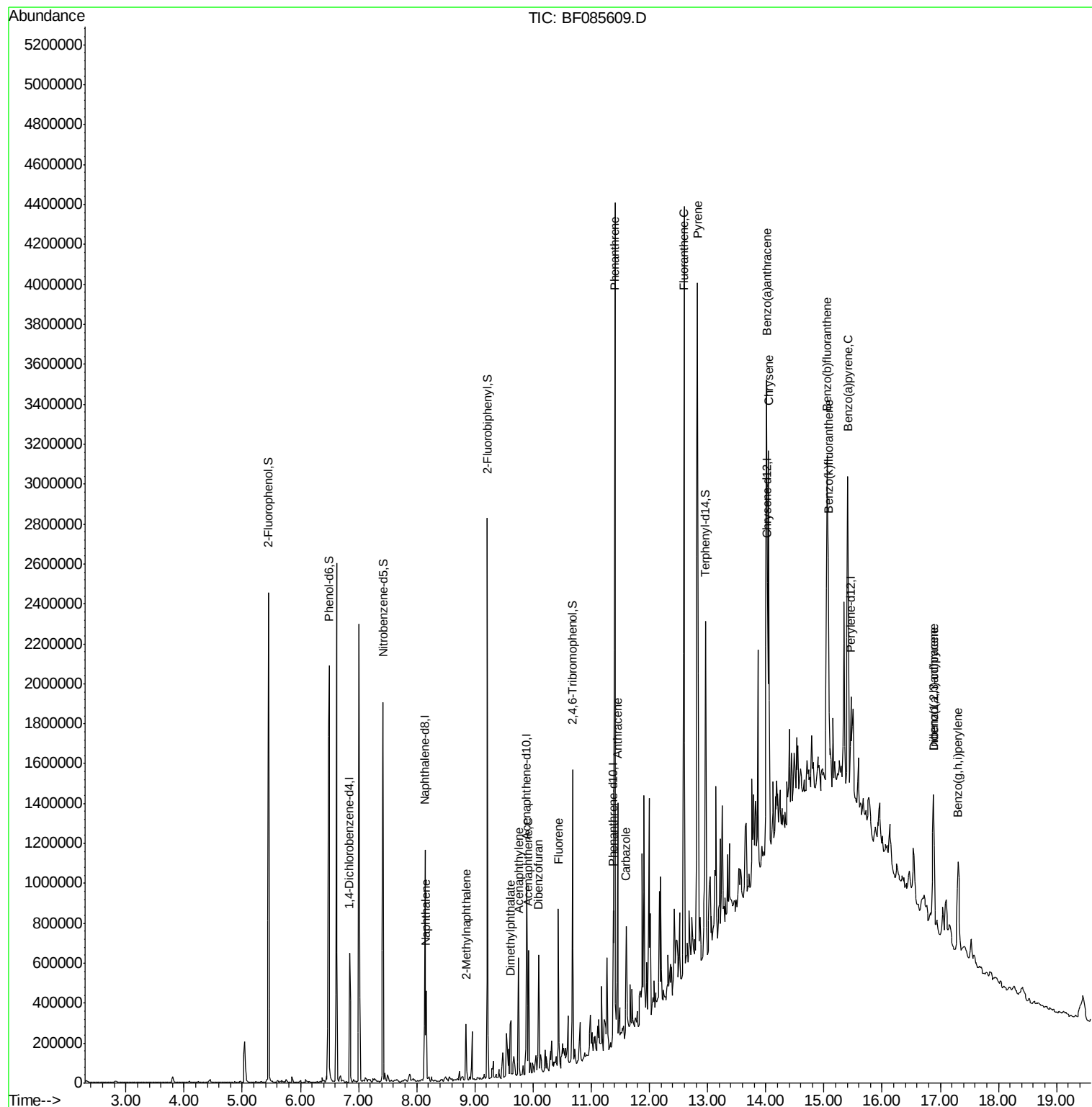
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
Data File : BF085609.D
Acq On : 20 Mar 2016 10:21
Operator : UM/SJ
Sample : H1815-10
Misc :
ALS Vial : 67 Sample Multiplier: 1

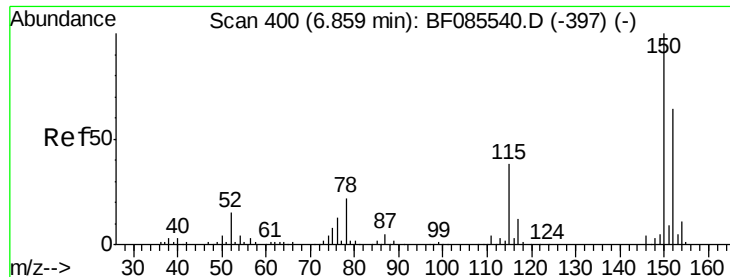
Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM

Quant Time: Mar 21 12:35:12 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration

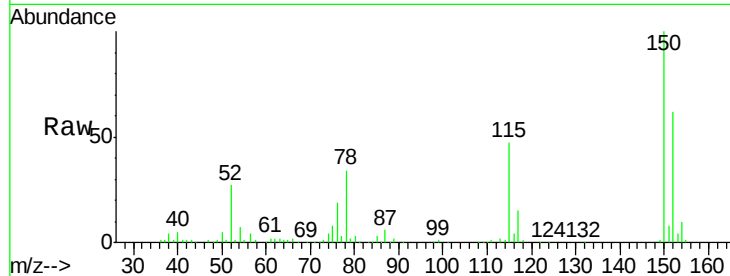




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

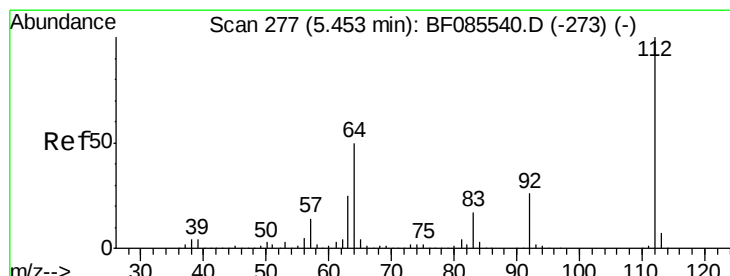
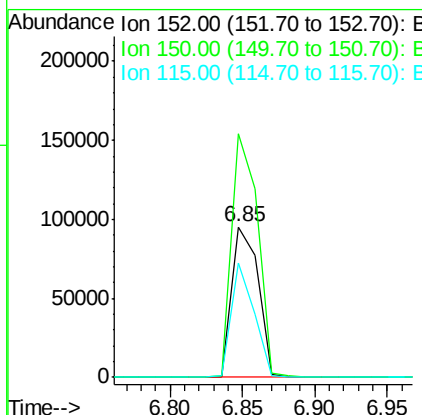
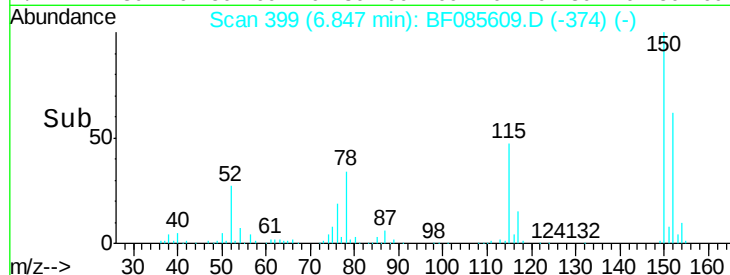
Instrument :
BNA_F
ClientSampleId :
SB-07-COMP



Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.8	124.2	186.2
115	76.1	47.0	70.6

Manual Integrations
APPROVED

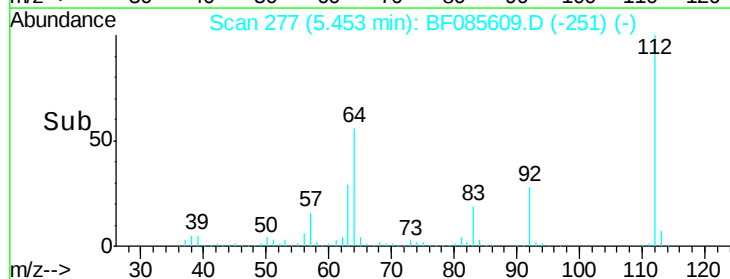
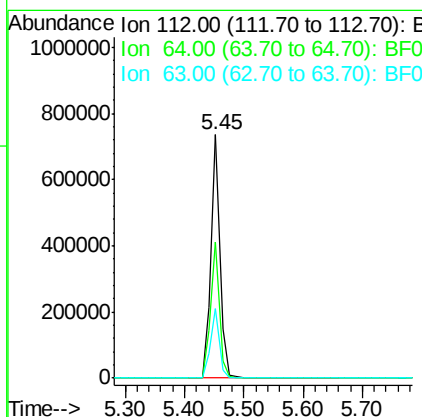
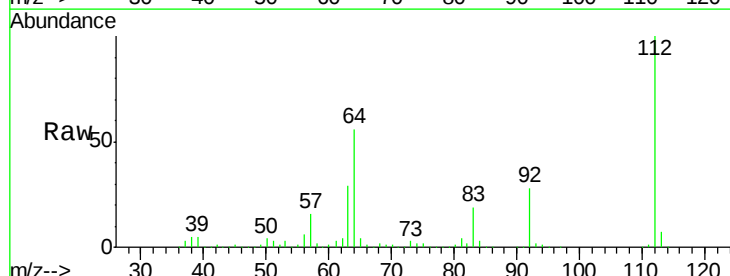
apatel
3/21/2016 5:11:32 PM



#5

2-Fluorophenol
Concen: 107.37 ng
RT: 5.45 min Scan# 277
Delta R.T. 0.00 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	39.9	59.9
63	28.7	20.2	30.2





#7

Phenol-d6

Concen: 122.56 ng

RT: 6.49 min Scan# 368

Delta R.T. 0.00 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

ClientSampleId :

SB-07-COMP

Tgt Ion: 99 Resp: 1131547

Ion Ratio Lower Upper

99 100

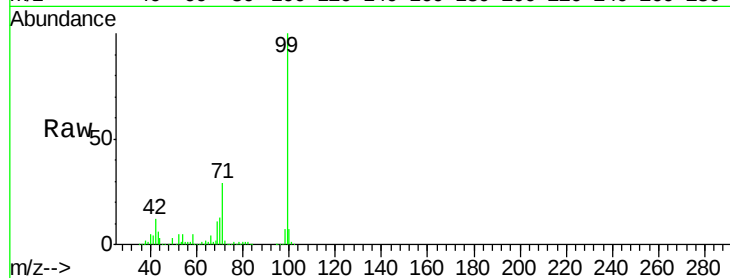
42 12.0 11.1 16.7

71 29.4 24.9 37.3

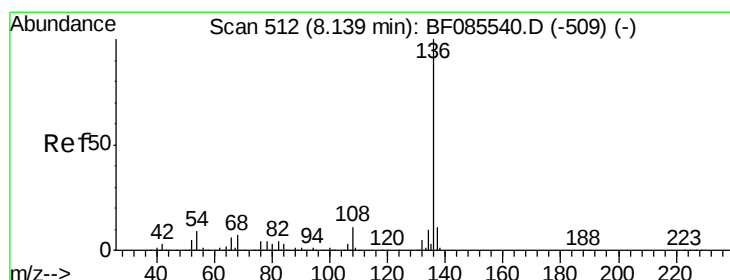
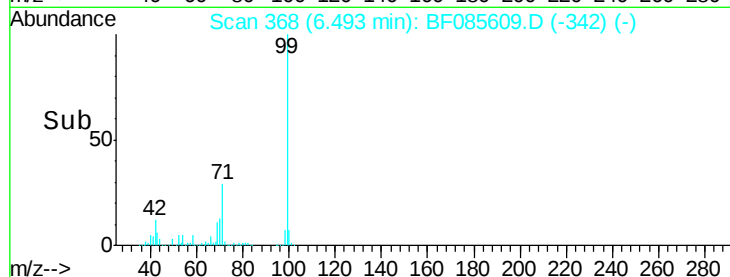
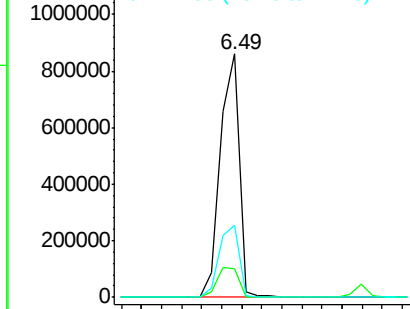
Manual Integrations
APPROVED

apatel

3/21/2016 5:11:32 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 512

Delta R.T. 0.00 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Tgt Ion: 136 Resp: 502260

Ion Ratio Lower Upper

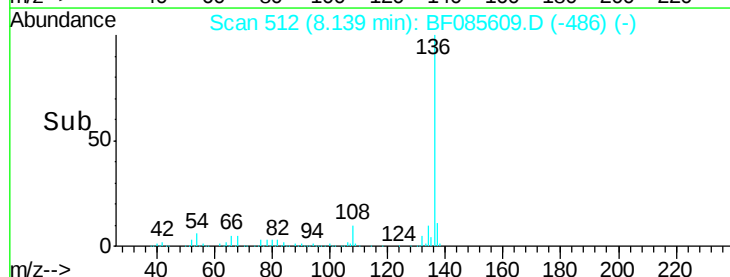
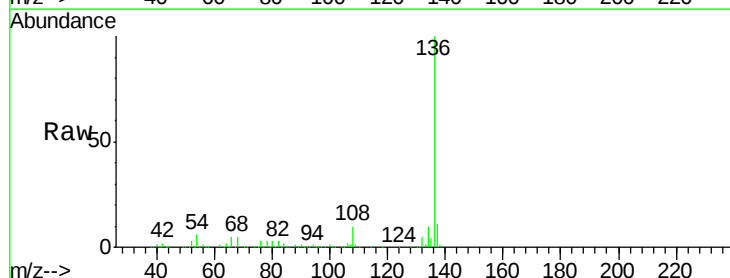
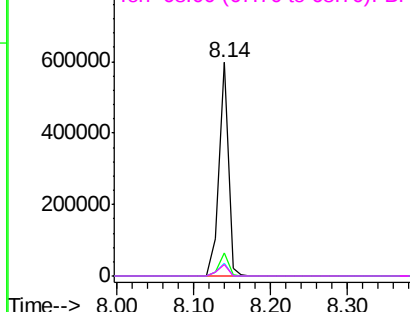
136 100

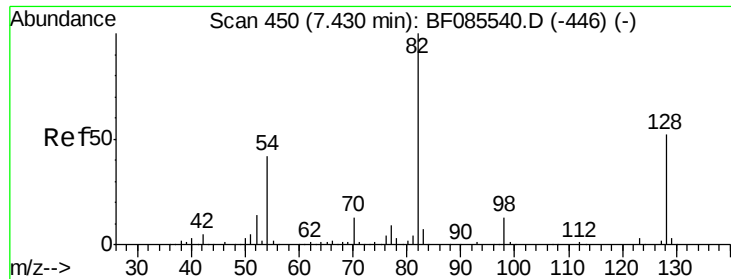
137 11.0 9.1 13.7

54 6.1 7.4 11.0#

68 5.3 5.8 8.8#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





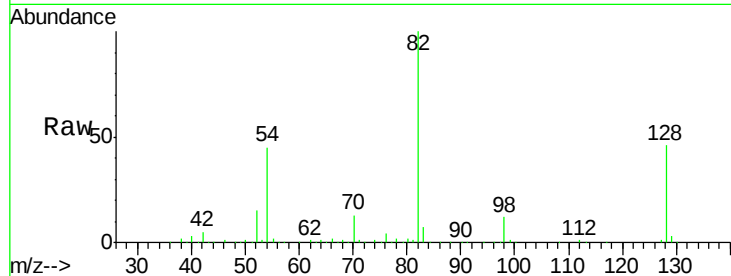
#23
 Nitrobenzene-d5
 Concen: 76.76 ng
 RT: 7.42 min Scan# 449
 Delta R.T. -0.01 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-COMP

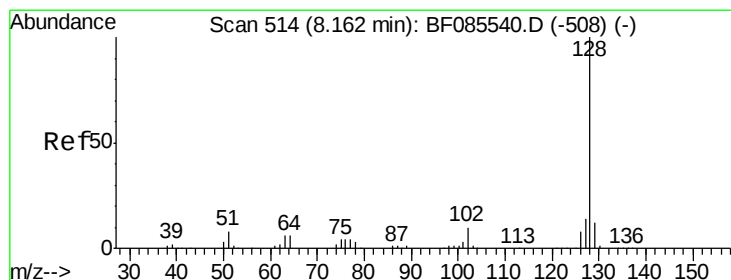
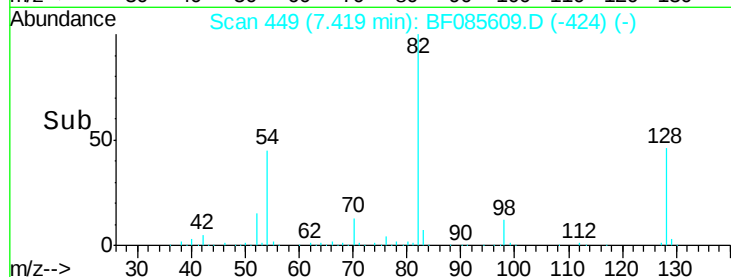
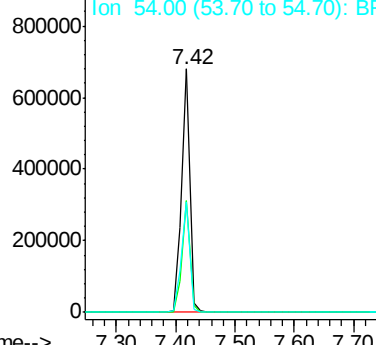
Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.9	41.8	62.8
54	45.1	33.4	50.0

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:11:32 PM

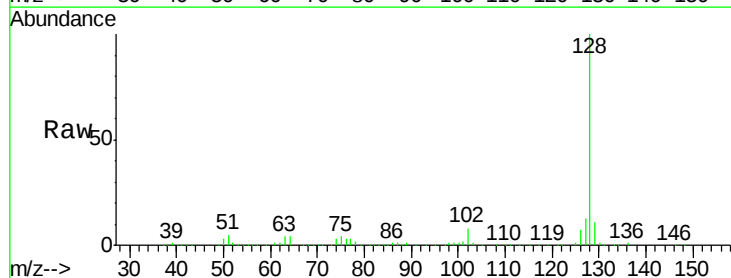


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

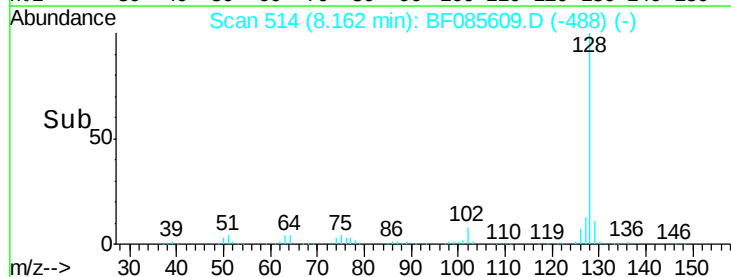
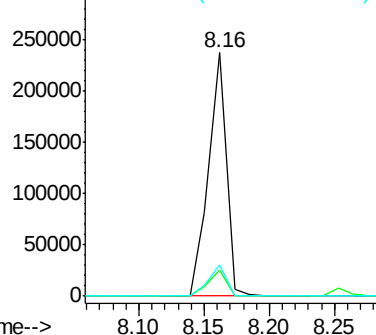


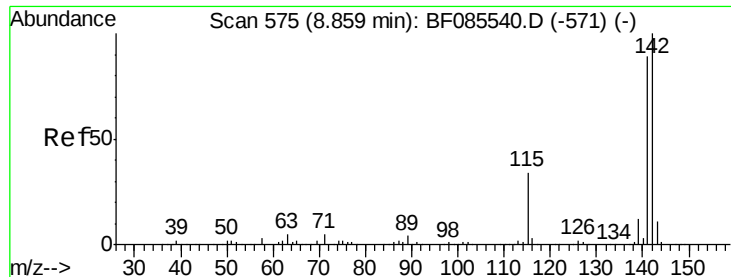
#31
 Naphthalene
 Concen: 8.91 ng
 RT: 8.16 min Scan# 514
 Delta R.T. 0.00 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.4	14.0
127	12.9	11.0	16.6



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





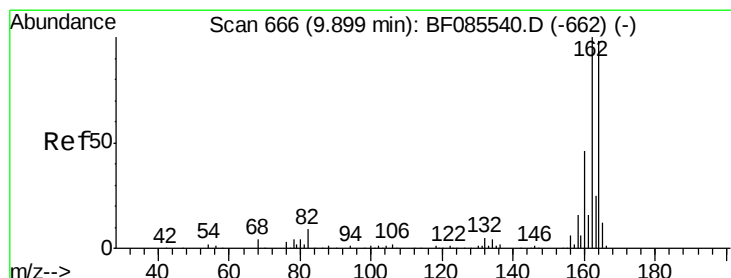
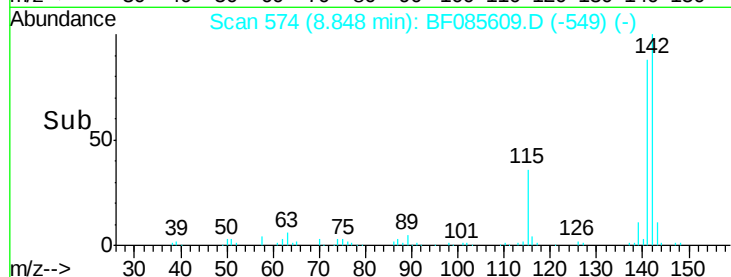
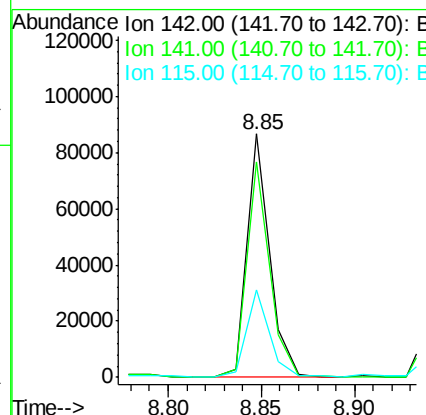
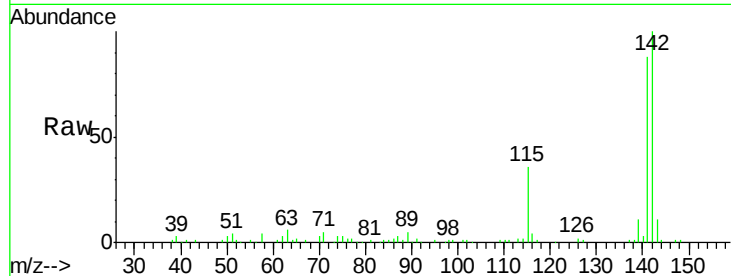
#37
2-Methylnaphthalene
Concen: 4.79 ng
RT: 8.85 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.6	107.4
115	36.1	26.8	40.2

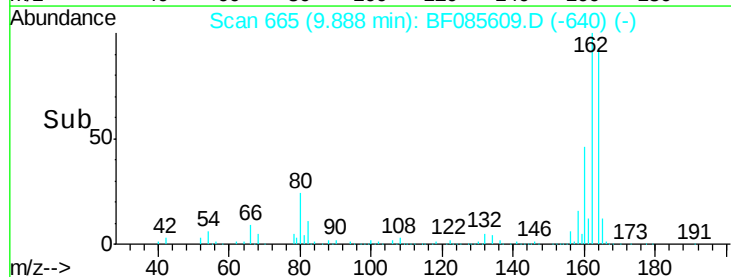
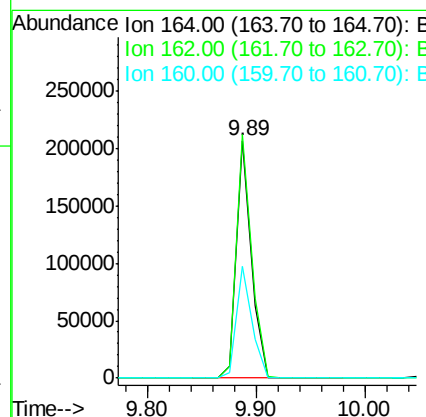
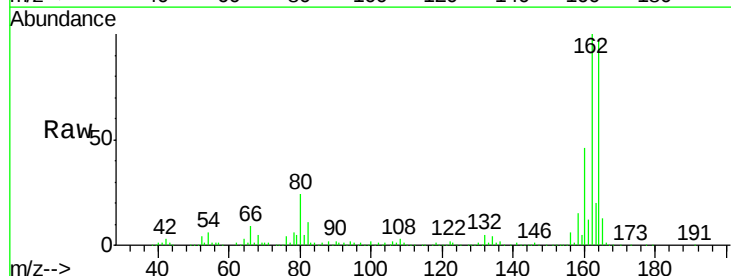
Manual Integrations
APPROVED

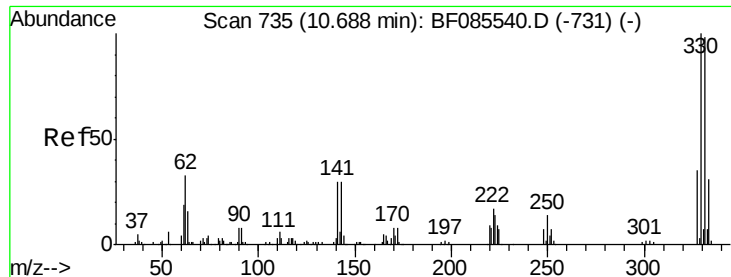
apatel
3/21/2016 5:11:32 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.1	123.1
160	47.2	37.4	56.2





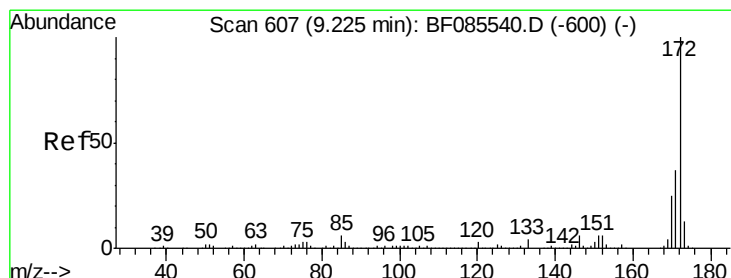
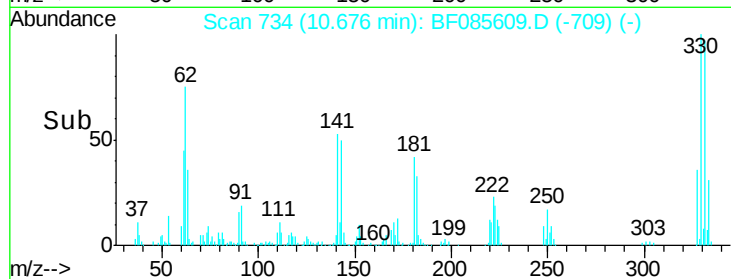
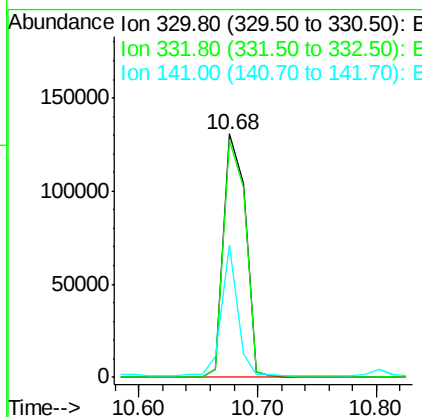
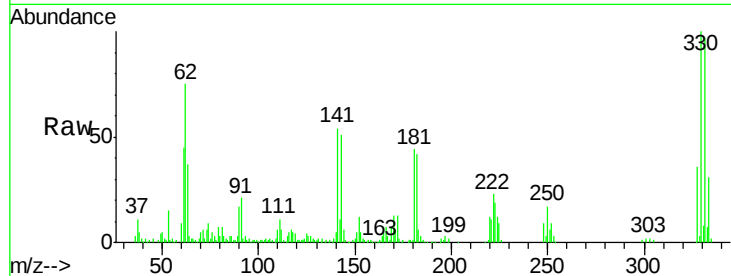
#41
 2,4,6-Tribromophenol
 Concen: 88.18 ng
 RT: 10.68 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	167516		
332	97.8	78.2	117.2	
141	39.5	31.5	47.3	

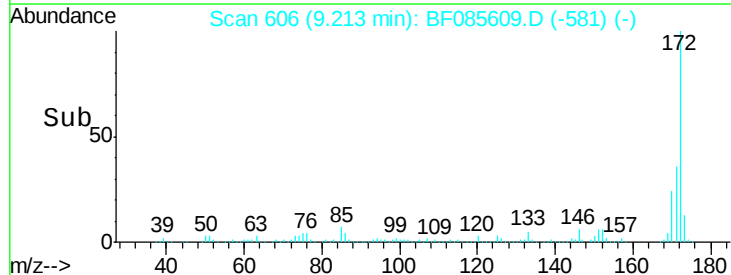
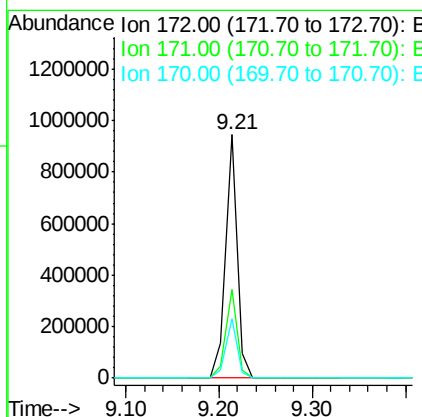
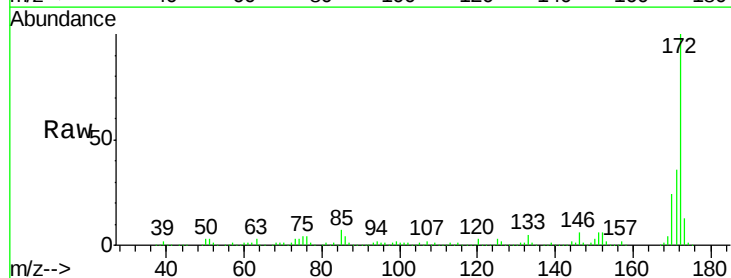
Manual Integrations
 APPROVED

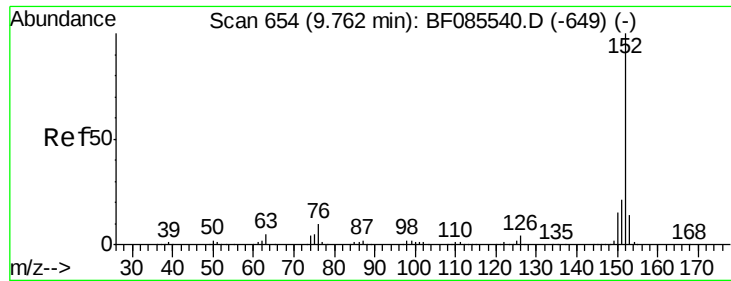
apatel
 3/21/2016 5:11:32 PM



#44
 2-Fluorobiphenyl
 Concen: 67.82 ng
 RT: 9.21 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	811229		
171	36.3	29.4	44.2	
170	24.4	19.8	29.6	





#48

Acenaphthylene

Concen: 10.74 ng

RT: 9.75 min Scan# 653

Delta R.T. -0.01 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

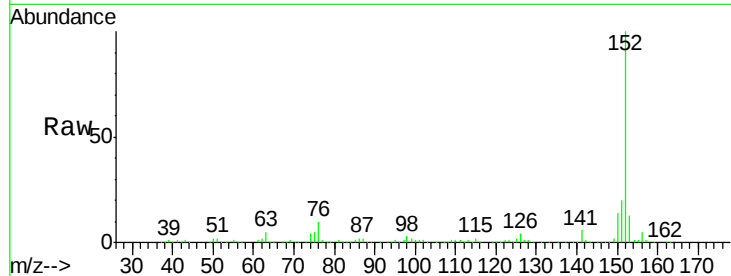
ClientSampleId :

SB-07-COMP

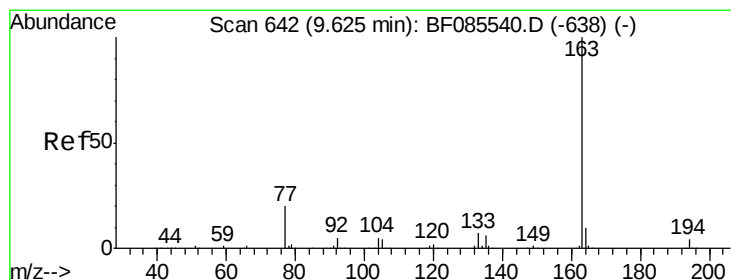
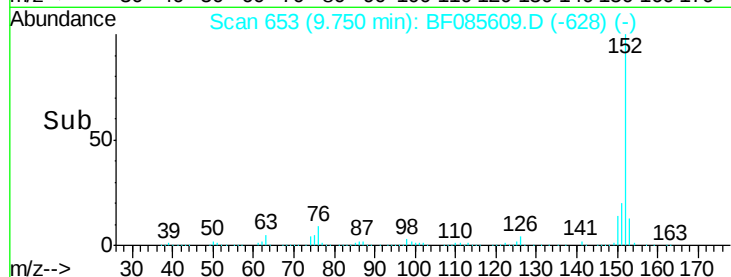
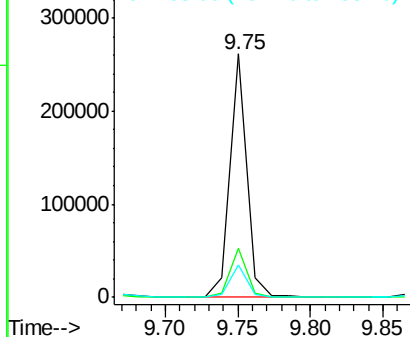
Tgt Ion:	152	Resp:	212445
Ion Ratio		Lower	Upper
152	100		
151	19.9	16.8	25.2
153	13.4	10.9	16.3

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



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



#49

Dimethylphthalate

Concen: 11.07 ng

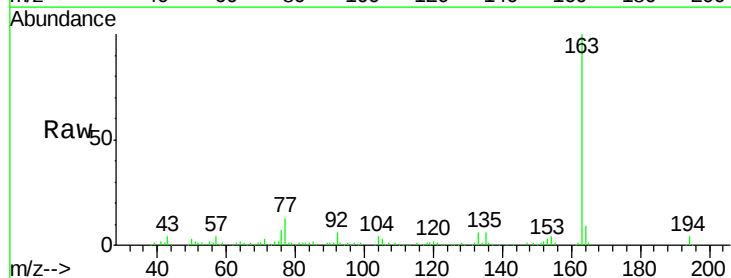
RT: 9.61 min Scan# 641

Delta R.T. -0.01 min

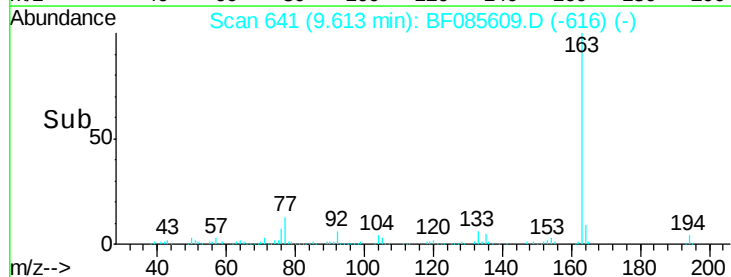
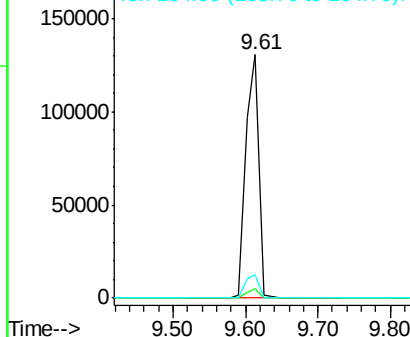
Lab File: BF085609.D

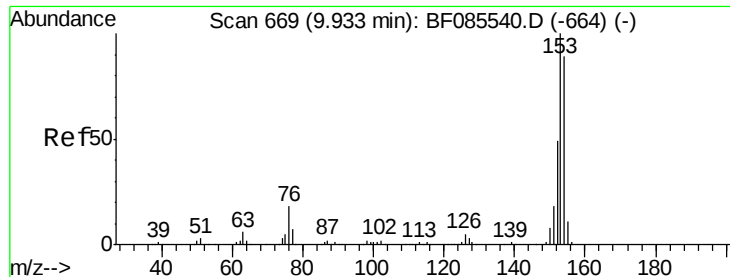
Acq: 20 Mar 2016 10:21

Tgt Ion:	163	Resp:	162063
Ion Ratio		Lower	Upper
163	100		
194	3.9	2.9	4.3
164	9.5	8.3	12.5



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: 9.93 ng

RT: 9.92 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

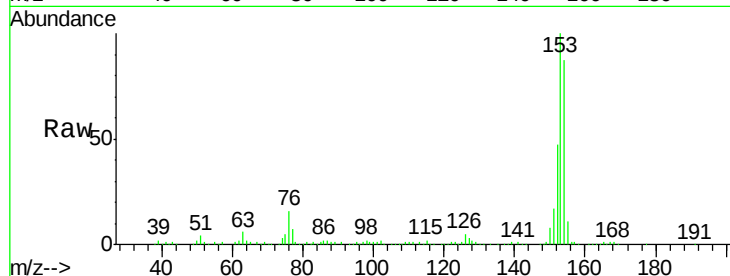
ClientSampleId :

SB-07-COMP

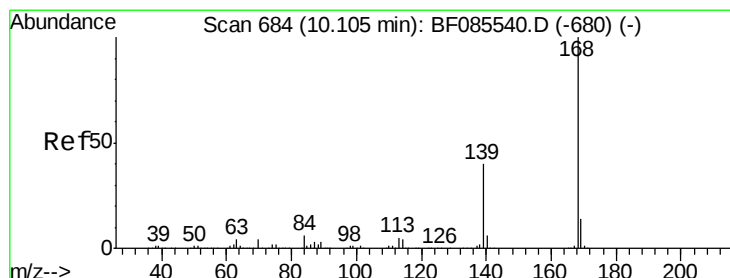
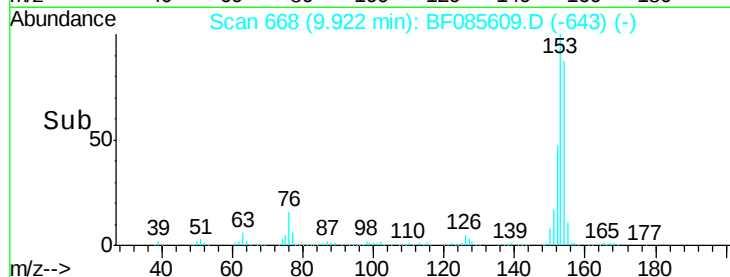
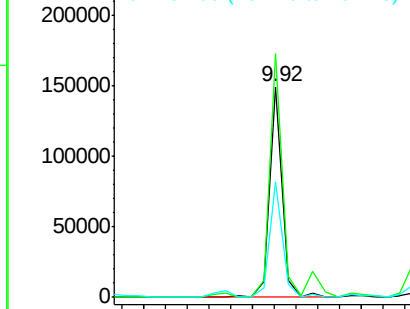
Tgt Ion:	154	Resp:	123277
Ion Ratio	Lower	Upper	
154	100		
153	115.6	90.1	135.1
152	54.7	44.2	66.2

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



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

Dibenzofuran

Concen: 10.92 ng

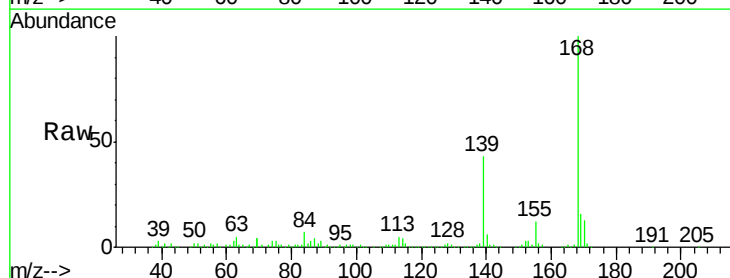
RT: 10.09 min Scan# 683

Delta R.T. -0.01 min

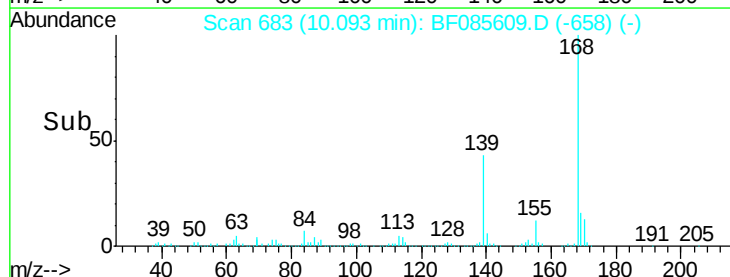
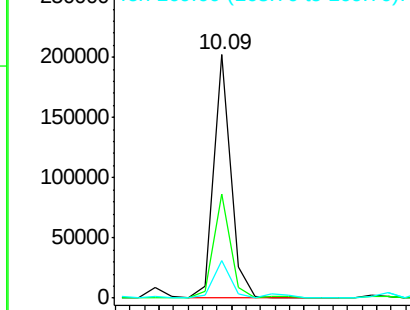
Lab File: BF085609.D

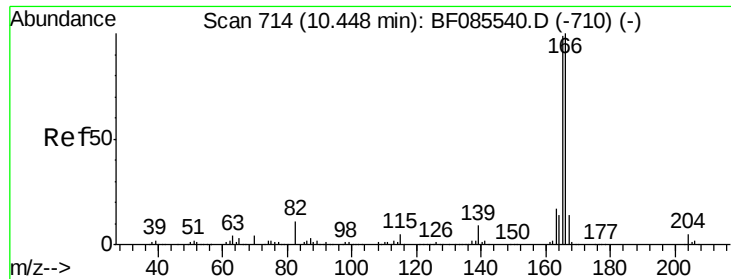
Acq: 20 Mar 2016 10:21

Tgt Ion:	168	Resp:	165113
Ion Ratio	Lower	Upper	
168	100		
139	42.7	31.9	47.9
169	15.7	11.0	16.6



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: 16.19 ng

RT: 10.44 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

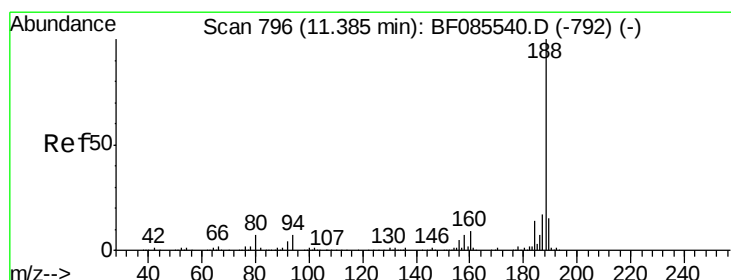
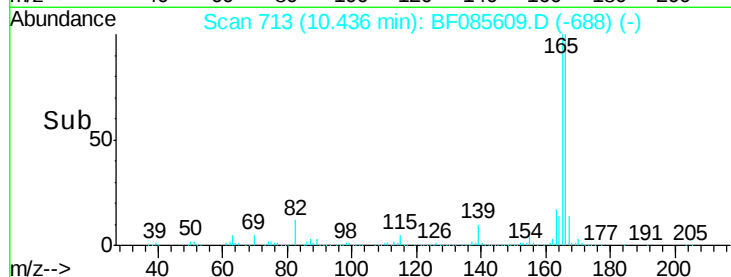
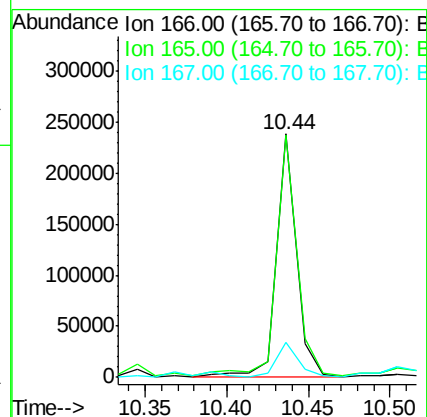
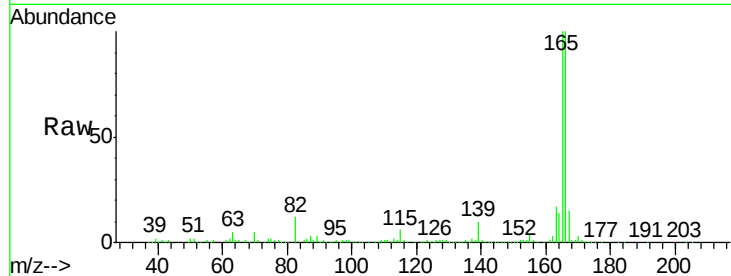
ClientSampleId :

SB-07-COMP

Tgt	Ion	Resp	Lower	Upper
166	100			
165	99.8	79.4	119.0	
167	14.5	11.0	16.4	

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

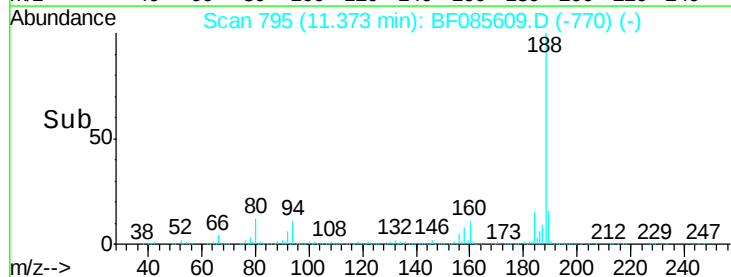
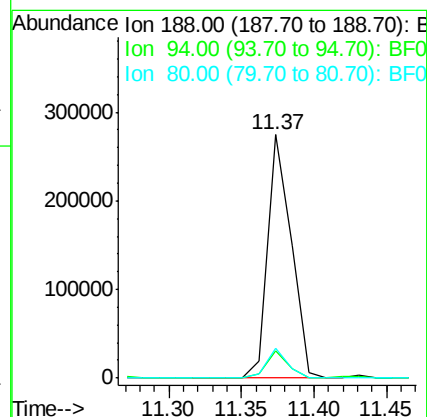
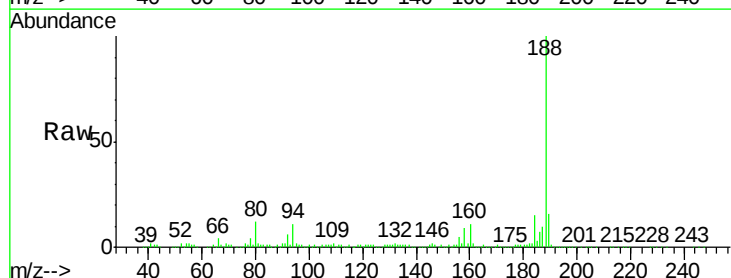
RT: 11.37 min Scan# 795

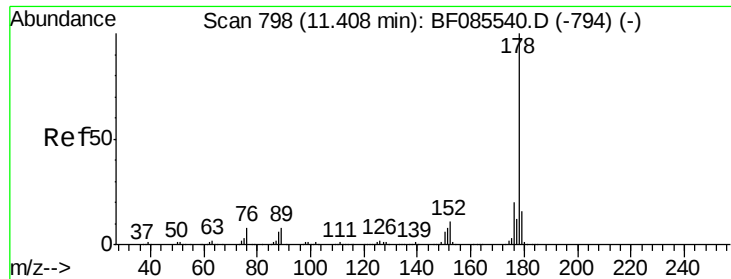
Delta R.T. -0.01 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Tgt	Ion	Resp	Lower	Upper
188	100			
94	11.2	5.4	8.0#	
80	12.4	5.5	8.3#	





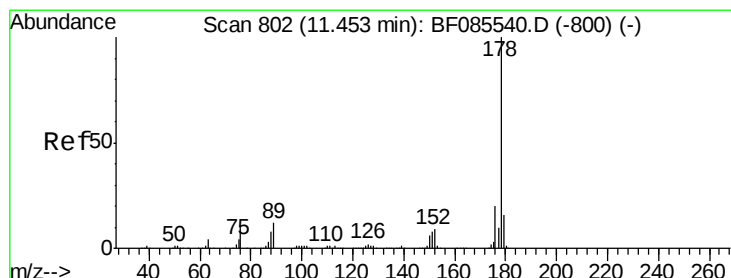
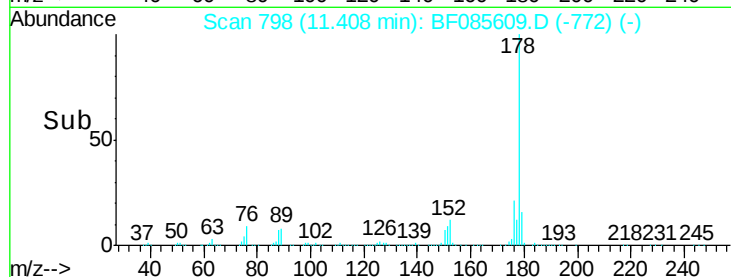
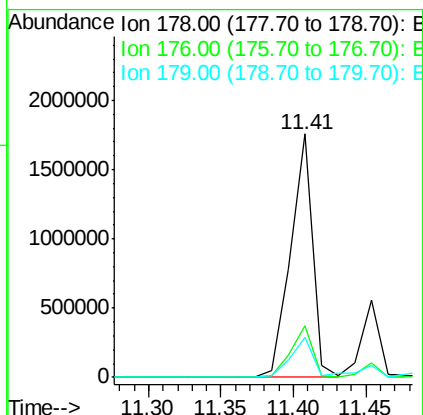
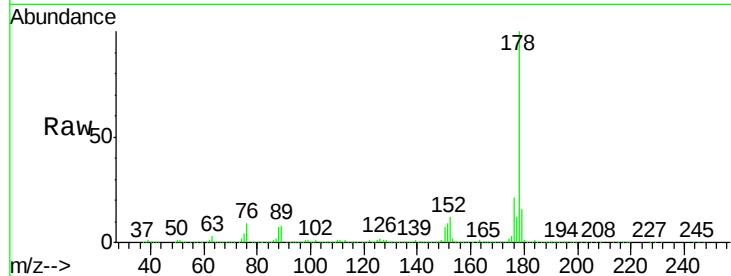
#70
Phenanthrene
Concen: 112.99 ng
RT: 11.41 min Scan# 798
Delta R.T. 0.00 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion:178 Resp: 1841359
Ion Ratio Lower Upper
178 100
176 21.3 16.3 24.5
179 16.4 12.6 18.8

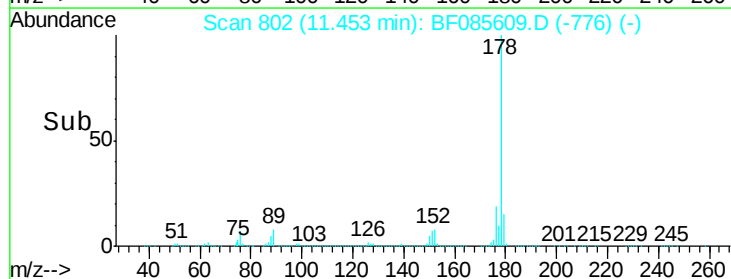
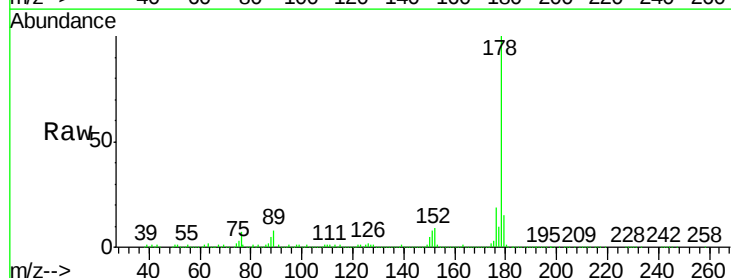
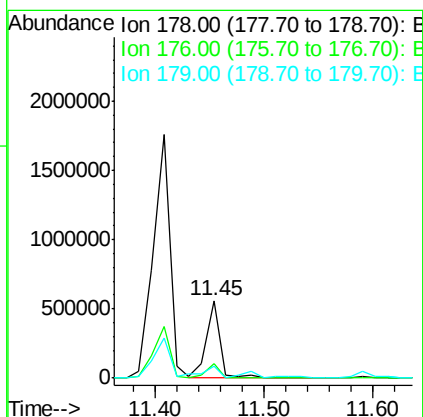
Manual Integrations
APPROVED

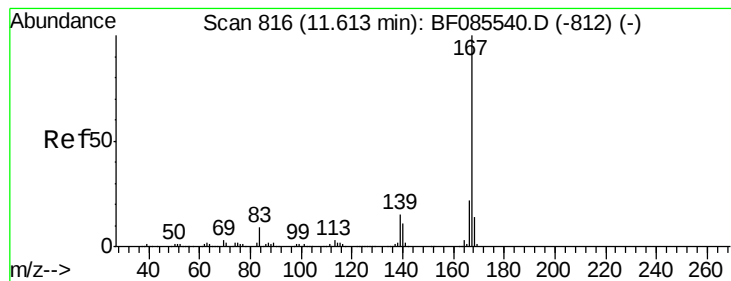
apatel
3/21/2016 5:11:32 PM



#71
Anthracene
Concen: 29.02 ng
RT: 11.45 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

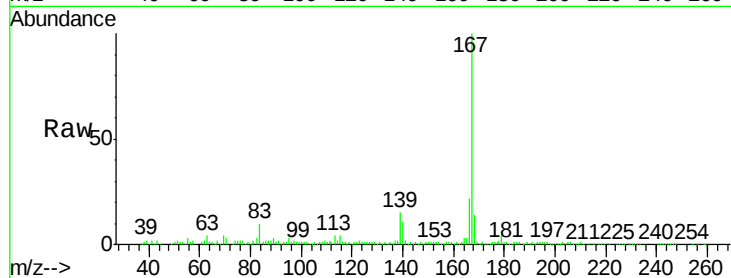
Tgt Ion:178 Resp: 495940
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.4 13.0 19.4





#72
 Carbazole
 Concen: 14.41 ng
 RT: 11.60 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

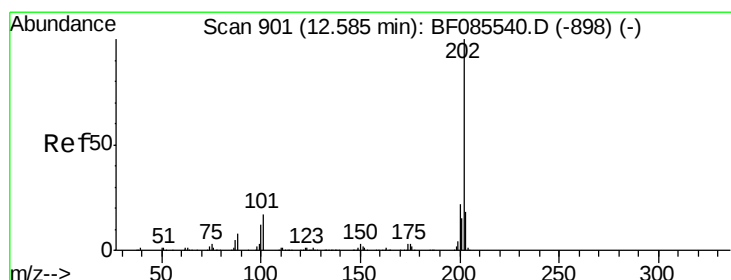
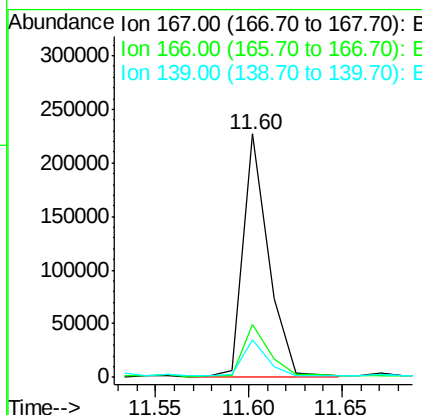
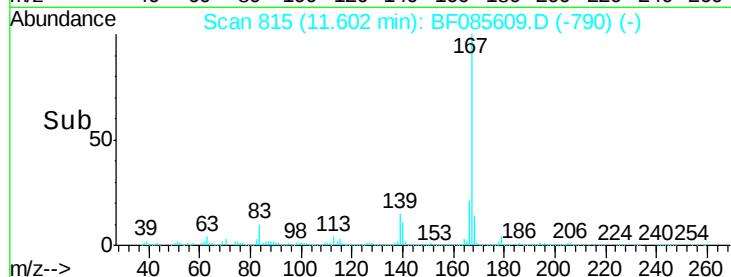
Instrument :
 BNA_F
 ClientSampleId :
 SB-07-COMP



Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.8	26.8
139	15.3	11.6	17.4

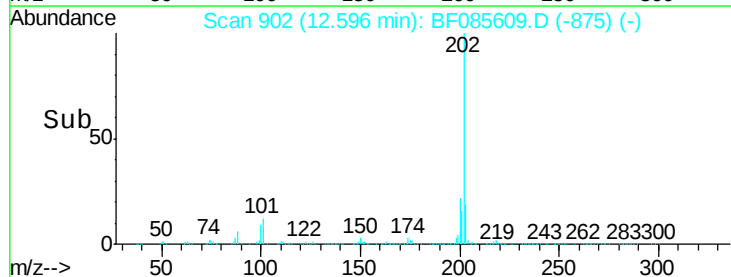
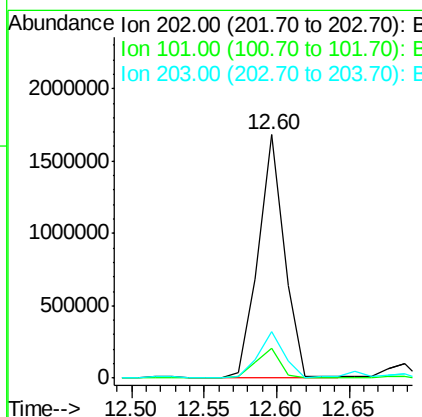
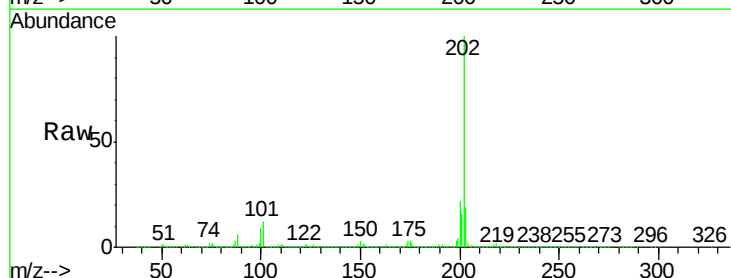
Manual Integrations
 APPROVED

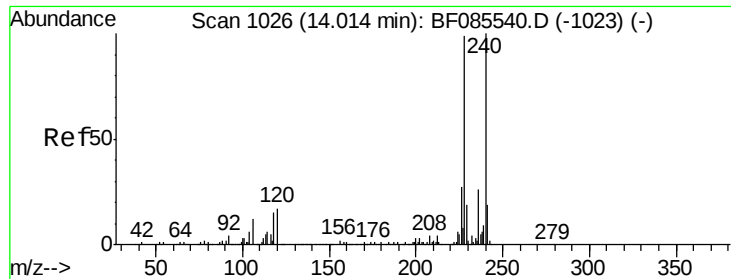
apatel
 3/21/2016 5:11:32 PM



#74
 Fluoranthene
 Concen: 122.55 ng
 RT: 12.60 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: BF085609.D
 Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	36.6
203	19.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

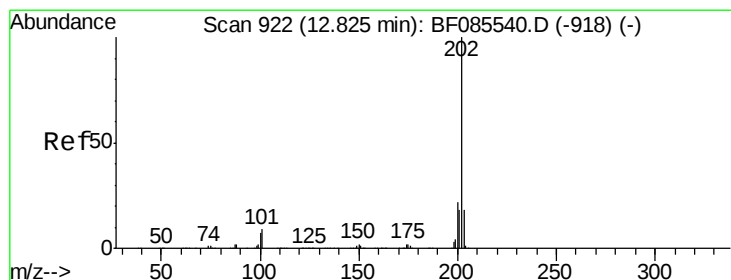
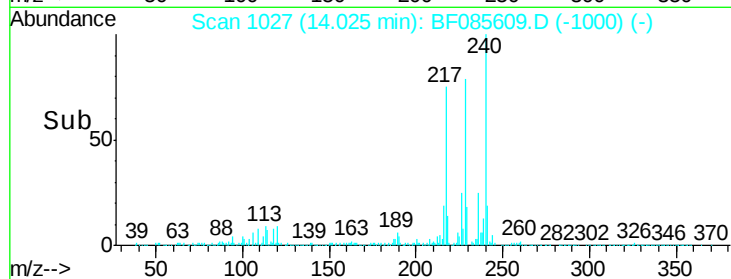
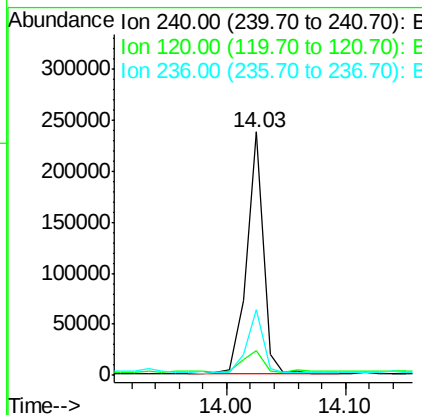
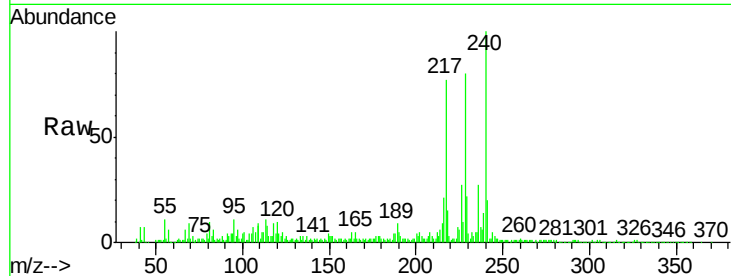
ClientSampleId :

SB-07-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	231125		
120	10.3	13.8	20.8#	
236	26.7	20.6	30.8	

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



#77

Pyrene

Concen: 119.85 ng

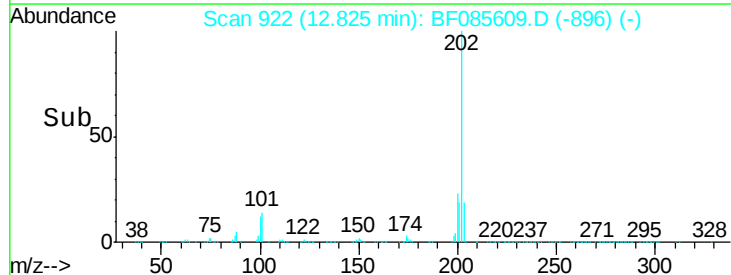
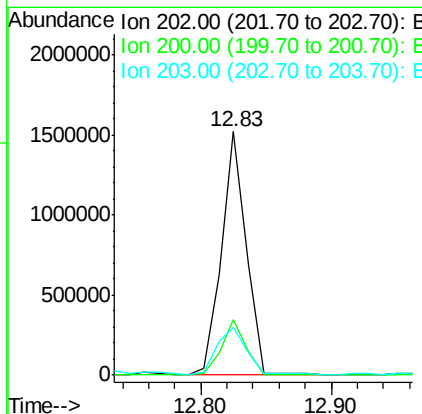
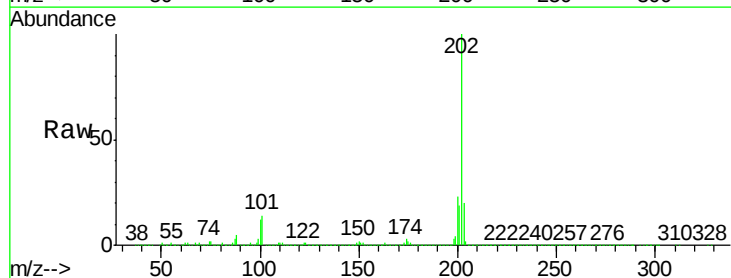
RT: 12.83 min Scan# 922

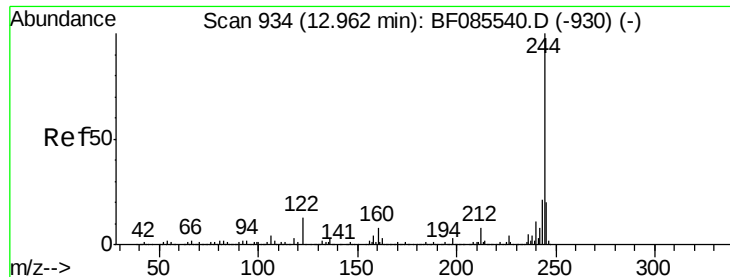
Delta R.T. 0.00 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1988864		
200	22.9	17.6	26.4	
203	19.6	14.0	21.0	





#78

Terphenyl-d14

Concen: 52.41 ng

RT: 12.96 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF085609.D

Acq: 20 Mar 2016 10:21

Instrument :

BNA_F

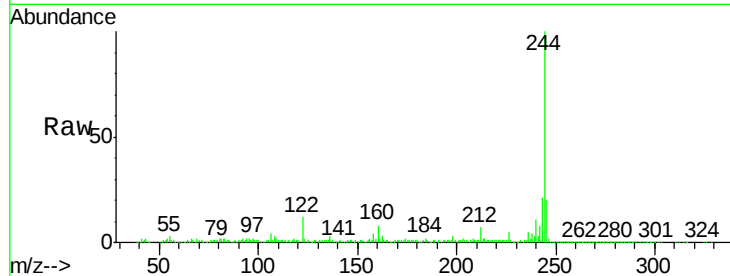
ClientSampleId :

SB-07-COMP

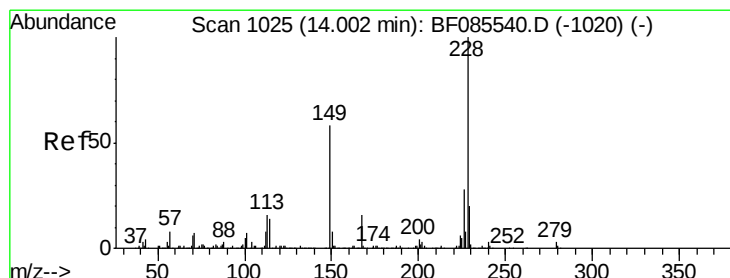
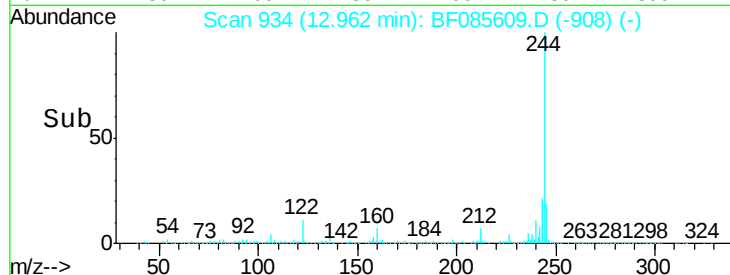
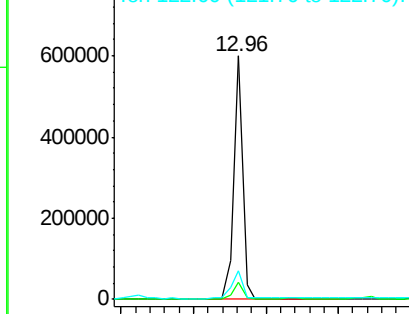
Tgt Ion:	244	Resp:	503397
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.1	9.1
122	11.7	10.2	15.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 82.46 ng m

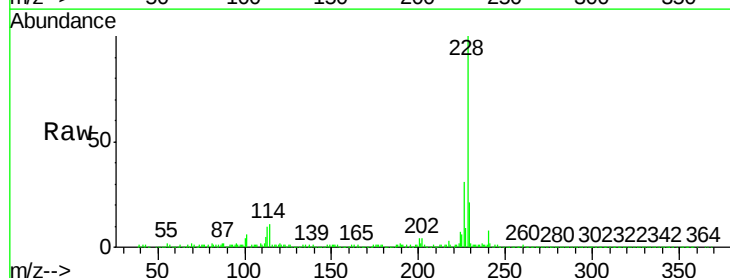
RT: 14.01 min Scan# 1026

Delta R.T. 0.01 min

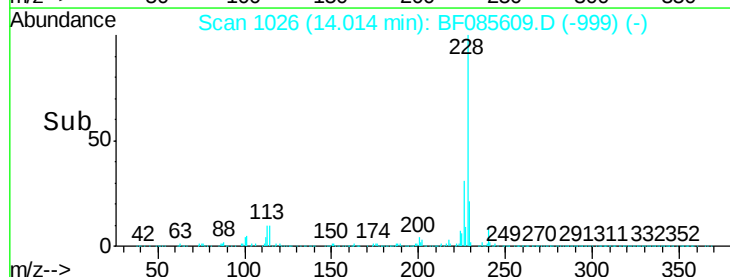
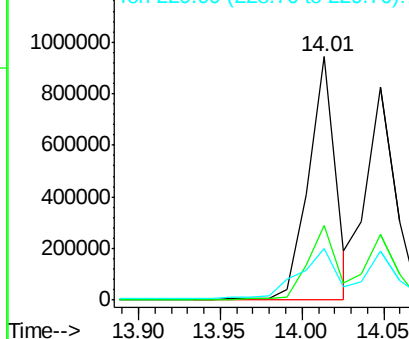
Lab File: BF085609.D

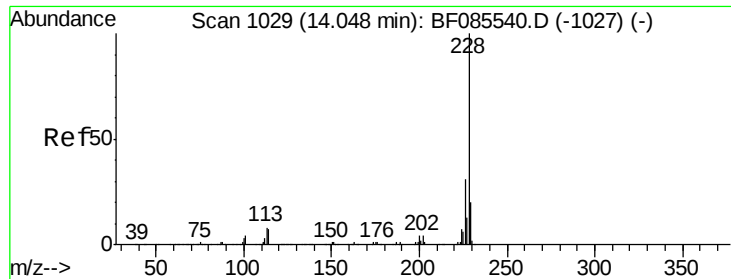
Acq: 20 Mar 2016 10:21

Tgt Ion:	228	Resp:	1106417
Ion Ratio	Lower	Upper	
228	100		
226	30.8	22.1	33.1
229	21.3	16.2	24.4



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





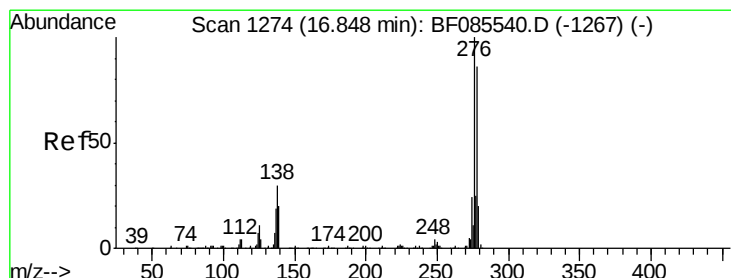
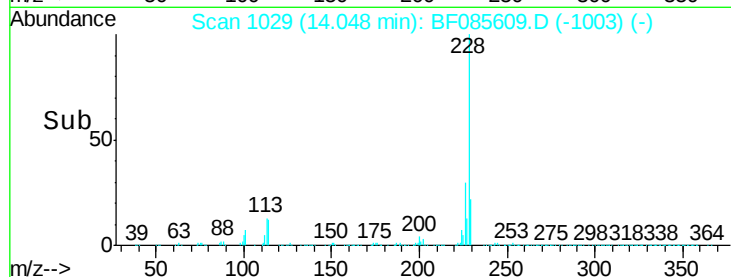
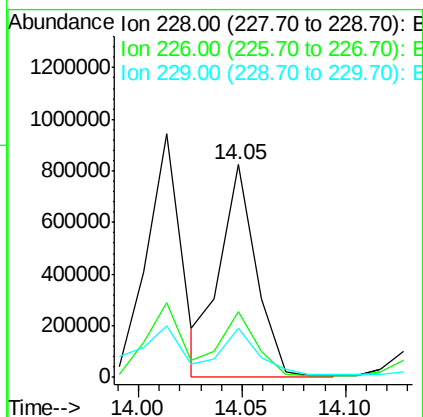
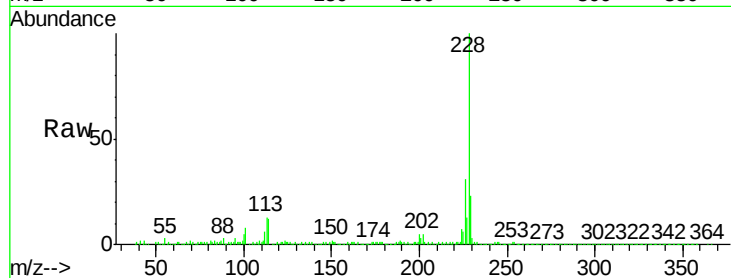
#82
Chrysene
Concen: 78.02 ng m
RT: 14.05 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion: 228 Resp: 1007104
Ion Ratio Lower Upper
228 100
226 30.9 25.0 37.6
229 23.3 15.7 23.5

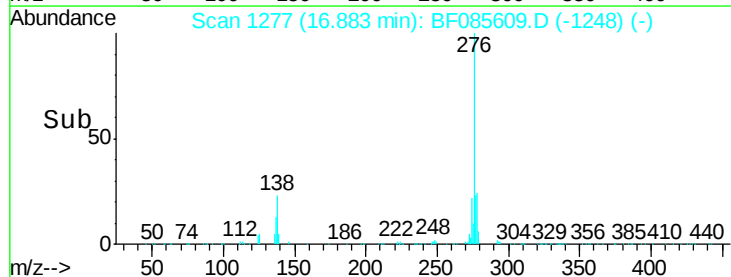
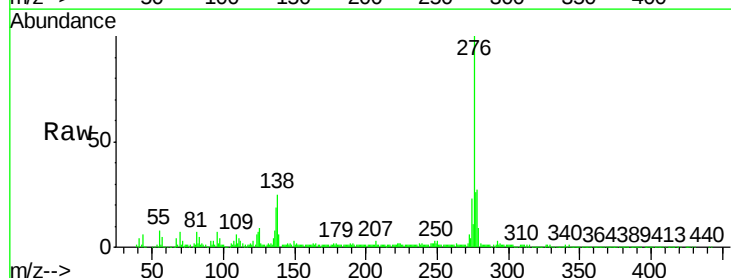
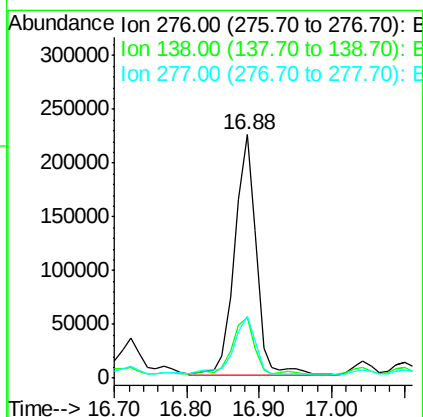
Manual Integrations
APPROVED

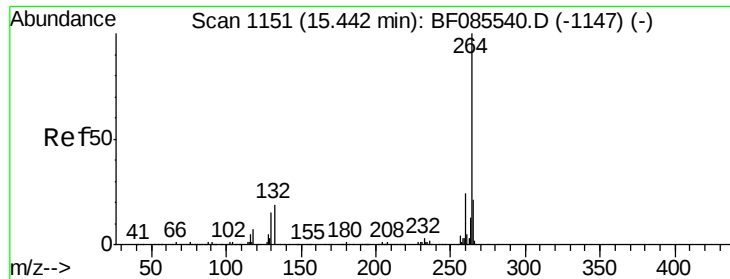
apatel
3/21/2016 5:11:32 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 42.86 ng
RT: 16.88 min Scan# 1277
Delta R.T. 0.03 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion: 276 Resp: 462273
Ion Ratio Lower Upper
276 100
138 23.1 24.2 36.4#
277 24.3 20.0 30.0





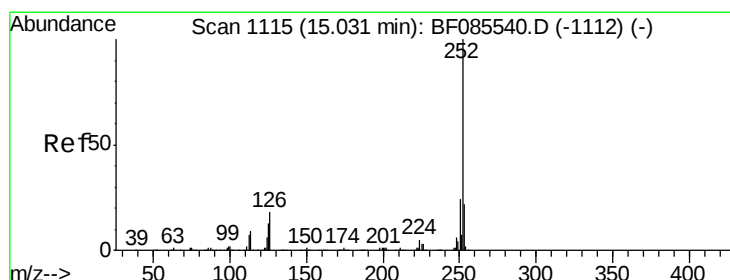
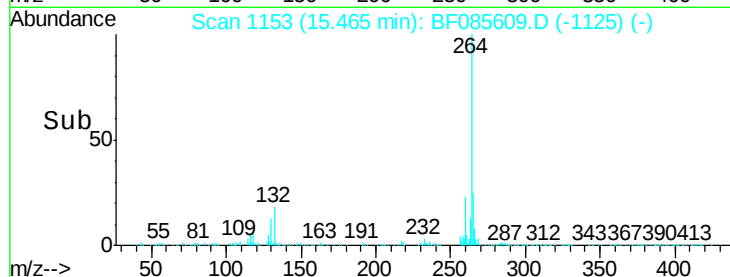
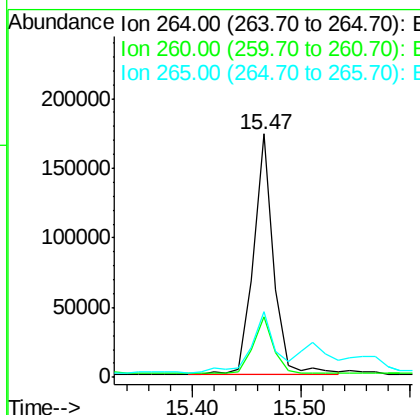
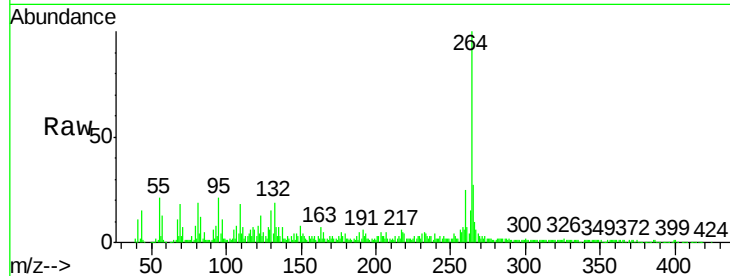
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.47 min Scan# 1153
Delta R.T. 0.02 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	225420		
260	24.7	19.4	29.2	
265	26.9	17.2	25.8	

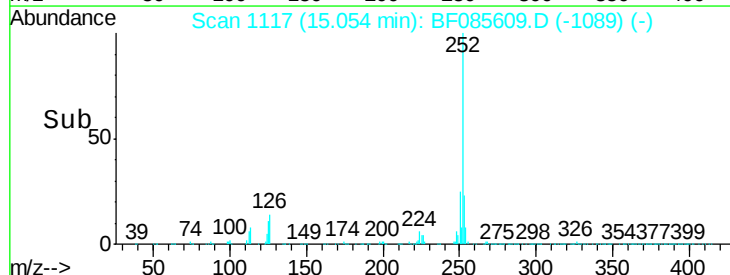
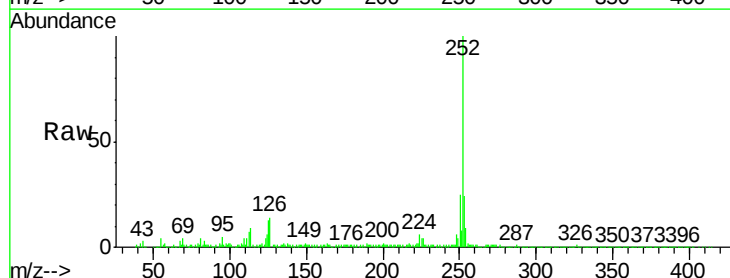
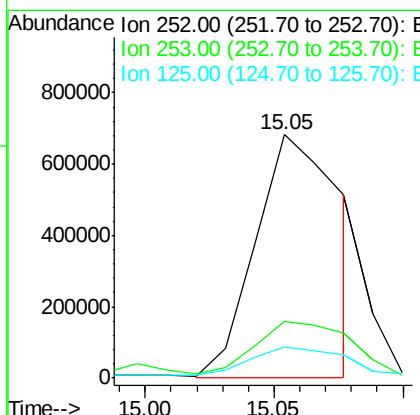
Manual Integrations
APPROVED

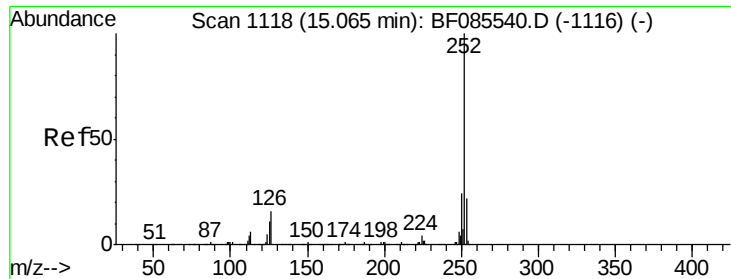
apatel
3/21/2016 5:11:32 PM



#87
Benzo(b)fluoranthene
Concen: 105.48 ng m
RT: 15.05 min Scan# 1117
Delta R.T. 0.02 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1551494		
253	23.6	17.6	26.4	
125	12.8	10.3	15.5	





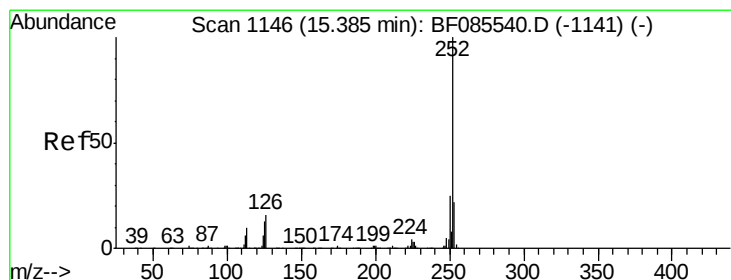
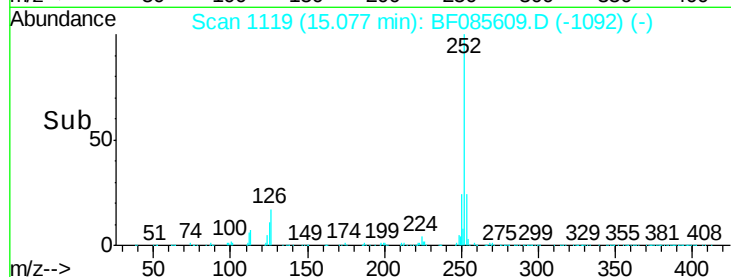
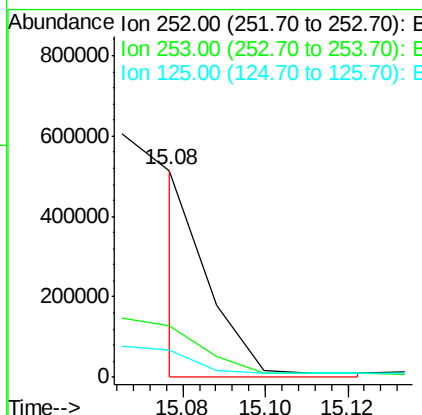
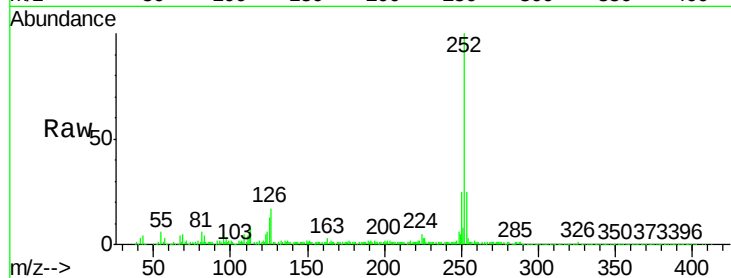
#88
Benzo(k)fluoranthene
Concen: 12.20 ng m
RT: 15.08 min Scan# 1119
Delta R.T. 0.01 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.8	26.6
125	13.1	7.7	11.5

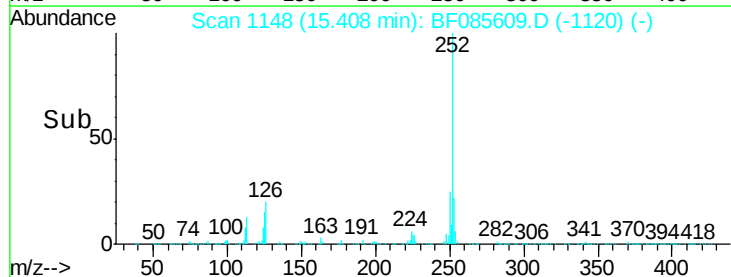
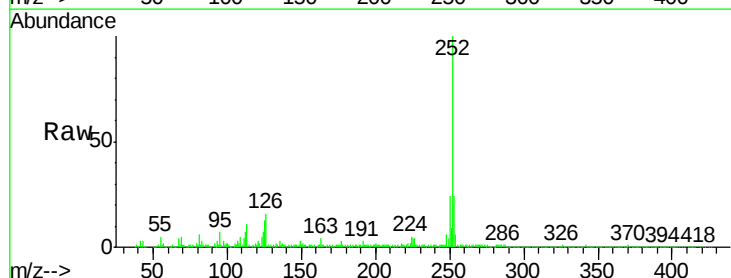
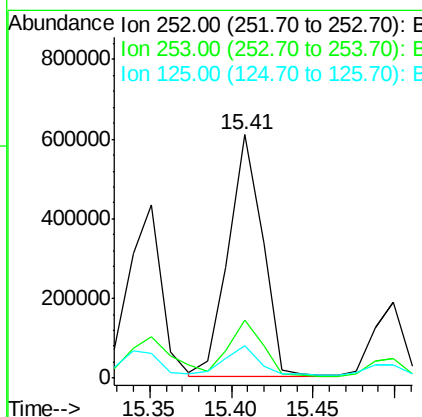
Manual Integrations
APPROVED

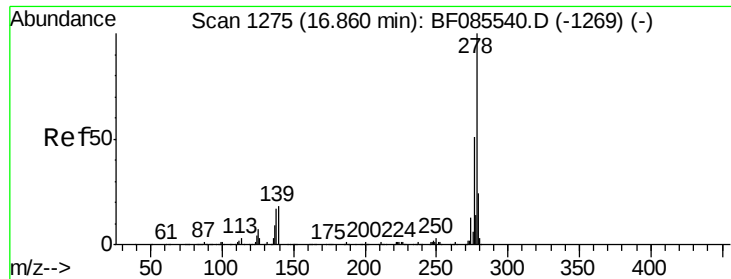
apatel
3/21/2016 5:11:32 PM



#89
Benzo(a)pyrene
Concen: 69.83 ng
RT: 15.41 min Scan# 1148
Delta R.T. 0.02 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.4	26.0
125	13.4	10.3	15.5





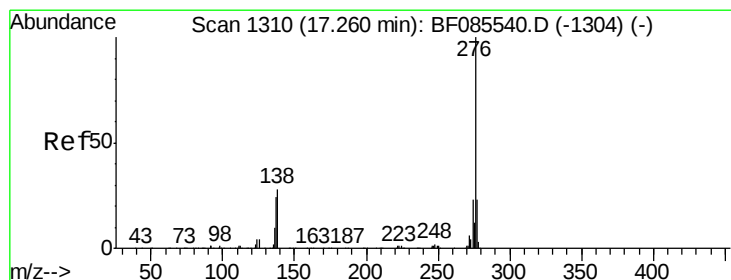
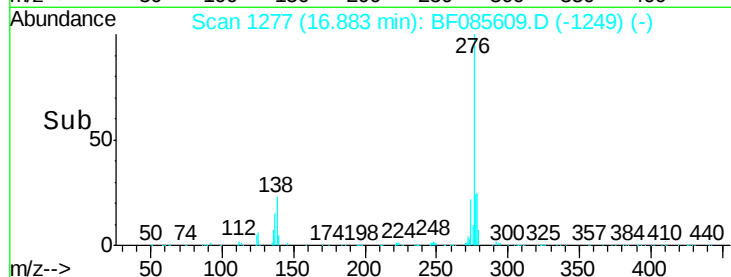
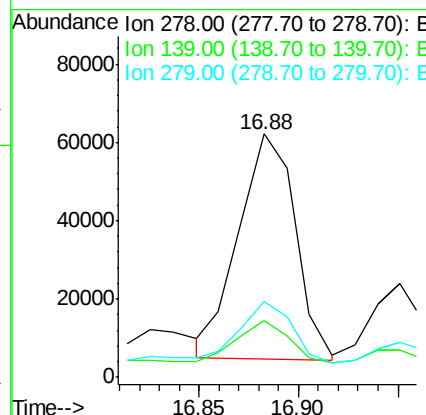
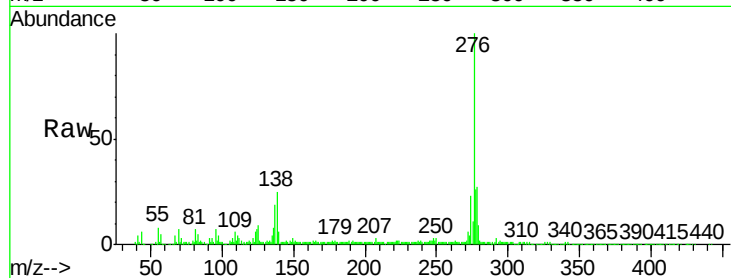
#90
Dibenzo(a,h)anthracene
Concen: 10.96 ng m
RT: 16.88 min Scan# 1277
Delta R.T. 0.02 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Instrument :
BNA_F
ClientSampleId :
SB-07-COMP

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.4	14.4	21.6#
279	31.4	19.1	28.7#

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:32 PM



#91
Benzo(g,h,i)perylene
Concen: 39.93 ng
RT: 17.31 min Scan# 1314
Delta R.T. 0.05 min
Lab File: BF085609.D
Acq: 20 Mar 2016 10:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	27.0	22.6	34.0

