

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\
 Data File : BF079467.D
 Acq On : 23 May 2015 10:18
 Operator : TP/IZ
 Sample : G2289-11 2X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-30S

Manual Integrations
 APPROVED

apatel
 5/27/2015 8:18:18 AM

Quant Time: May 25 07:42:18 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 25 06:56:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.05	152	72029	20.00	ng	0.00
21) Naphthalene-d8	8.63	136	297635	20.00	ng	0.00
38) Acenaphthene-d10	10.80	164	135451	20.00	ng	0.00
63) Phenanthrene-d10	12.63	188	248376	20.00	ng	0.00
75) Chrysene-d12	15.92	240	259875	20.00	ng	0.01
86) Perylene-d12	17.67	264	260747	20.00	ng	0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	257562m	61.55	ng	0.02
7) Phenol-d6	6.65	99	353226m	63.86	ng	0.02
23) Nitrobenzene-d5	7.75	82	113452	21.91	ng	0.00
41) 2,4,6-Tribromophenol	11.78	330	45940	31.35	ng	0.00
44) 2-Fluorobiphenyl	9.98	172	404158	41.57	ng	0.00
78) Terphenyl-d14	14.63	244	401191	36.96	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Dimethylphthalate	10.49	163	28402	2.86	ng	# 98
51) Acenaphthene	10.83	154	22501	2.74	ng	96
57) Fluorene	11.47	166	28897	2.96	ng	97
70) Phenanthrene	12.66	178	457236	32.91	ng	99
71) Anthracene	12.73	178	129060	9.47	ng	98
72) Carbazole	12.95	167	32963	2.54	ng	99
74) Fluoranthene	14.14	202	717562	49.56	ng	97
77) Pyrene	14.41	202	671467	44.84	ng	# 96
80) Benzo(a)anthracene	15.91	228	422895	29.72	ng	97
82) Chrysene	15.95	228	312421	22.83	ng	97
85) Indeno(1,2,3-cd)pyrene	19.03	276	262733	15.07	ng	94
87) Benzo(b)fluoranthene	17.22	252	538465m	37.73	ng	
88) Benzo(k)fluoranthene	17.26	252	125047m	9.05	ng	
89) Benzo(a)pyrene	17.61	252	384174	29.23	ng	99
90) Dibenzo(a,h)anthracene	19.04	278	72907	5.22	ng	# 87
91) Benzo(g,h,i)perylene	19.42	276	251780	17.99	ng	96

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

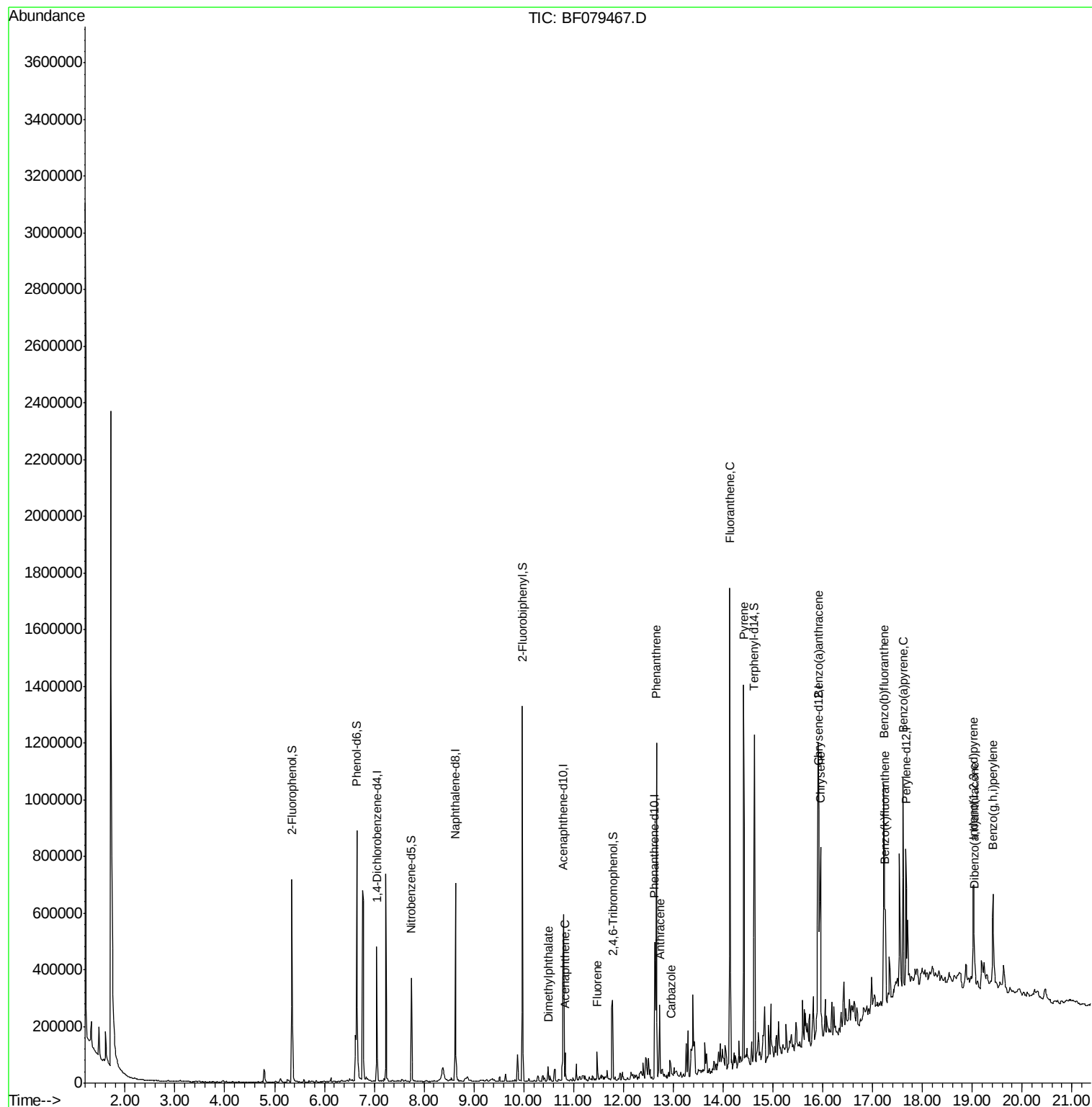
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\
Data File : BF079467.D
Acq On : 23 May 2015 10:18
Operator : TP/IZ
Sample : G2289-11 2X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-30S

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM

Quant Time: May 25 07:42:18 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 25 06:56:43 2015
Response via : Initial Calibration





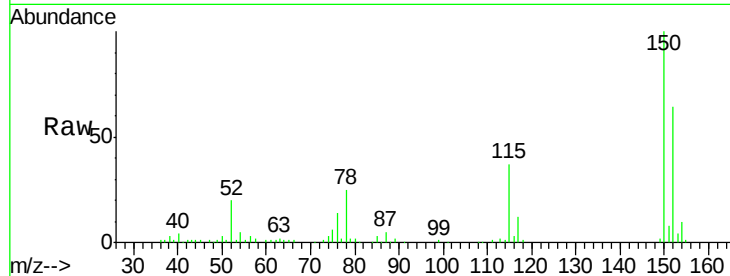
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.05 min Scan# 513
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-30S

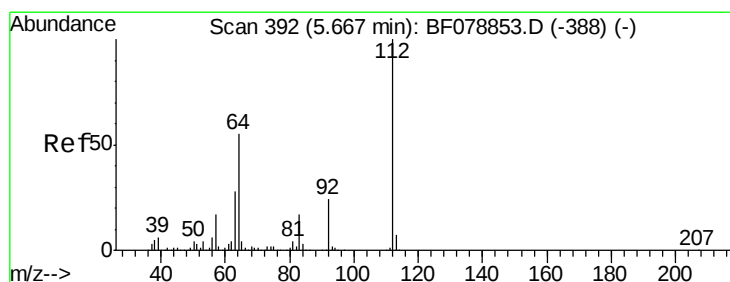
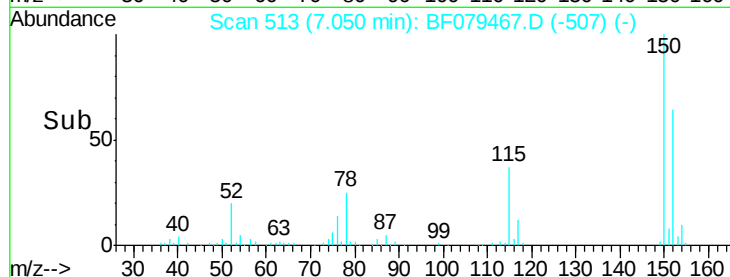
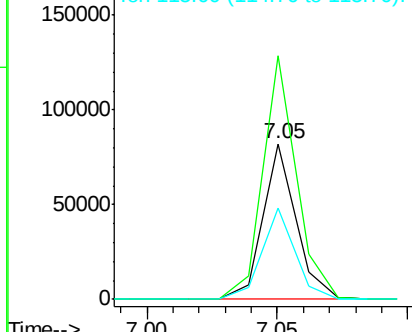
Tot Ion:	152	Resp:	72029
Ion Ratio	Lower	Upper	
152	100		
150	156.5	123.8	185.8
115	58.3	49.4	74.0

Manual Integrations
 APPROVED

apatel
 5/27/2015 8:18:18 AM



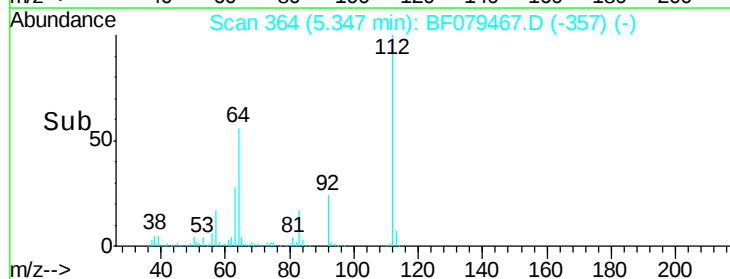
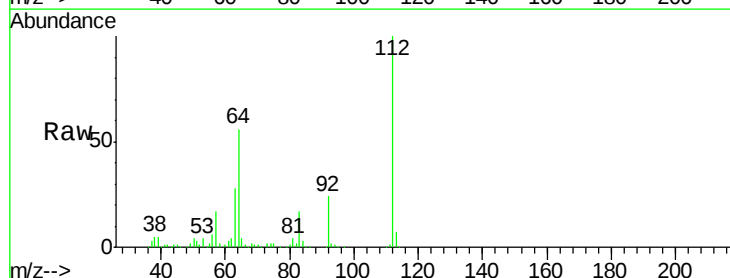
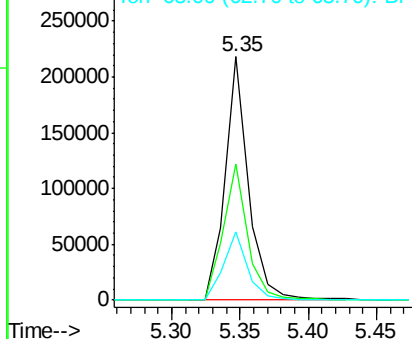
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

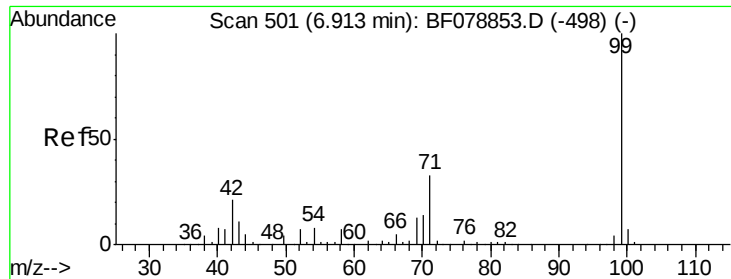


#5
 2-Fluorophenol
 Concen: 61.55 ng m
 RT: 5.35 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Tgt Ion:	112	Resp:	257562
Ion Ratio	Lower	Upper	
112	100		
64	55.9	44.2	66.2
63	27.9	22.7	34.1

Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 63.86 ng/mL

RT: 6.65 min Scan# 478

Delta R.T. 0.02 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Instrument :

BNA_F

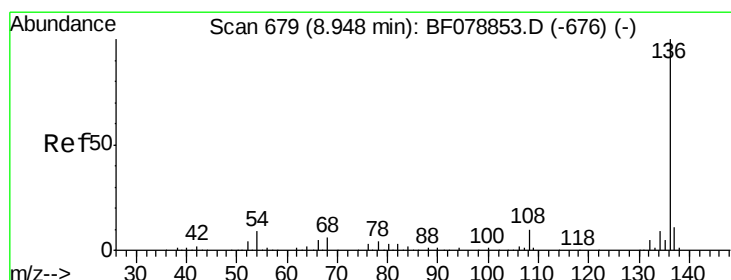
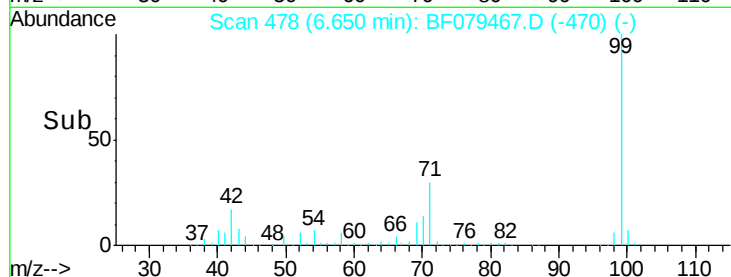
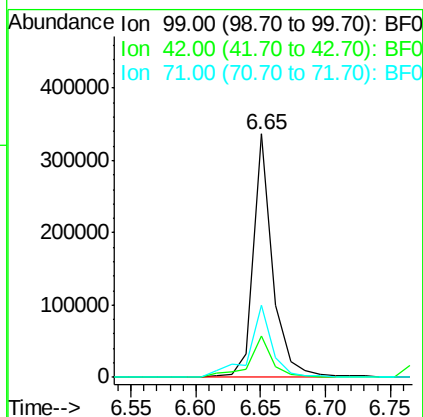
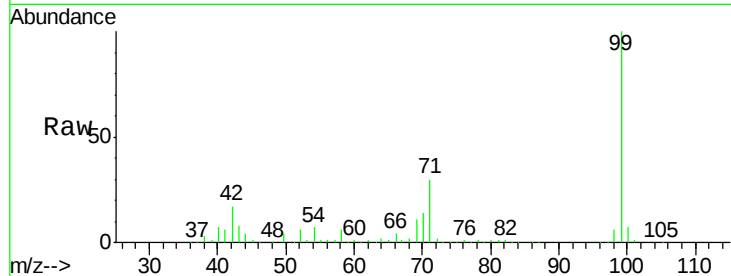
ClientSampleId :

SB-30S

Tot Ion:	99	Resp:	353226
Ion Ratio	Lower	Upper	
99	100		
42	16.9	17.1	25.7#
71	29.9	26.3	39.5

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM



#21

Naphthalene-d8

Concen: 20.00 ng

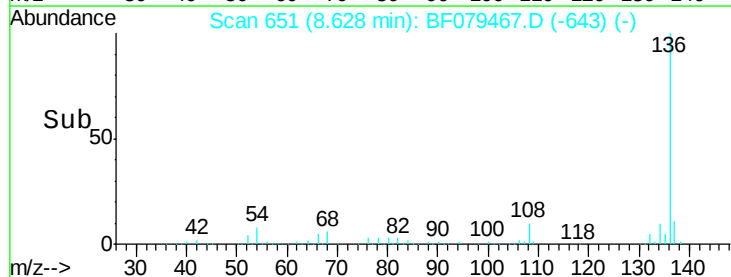
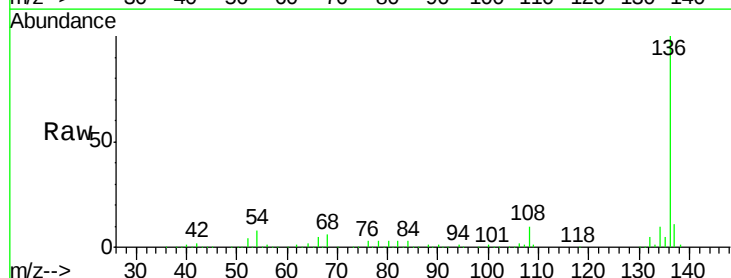
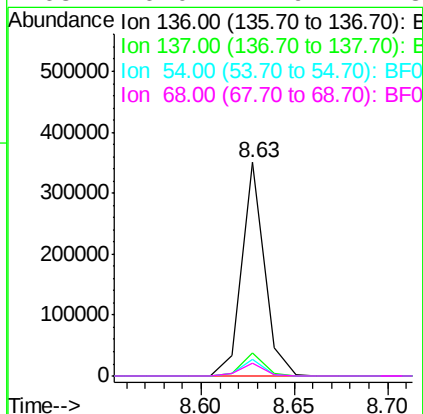
RT: 8.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Tgt Ion:	136	Resp:	297635
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	7.6	6.9	10.3
68	6.0	4.9	7.3





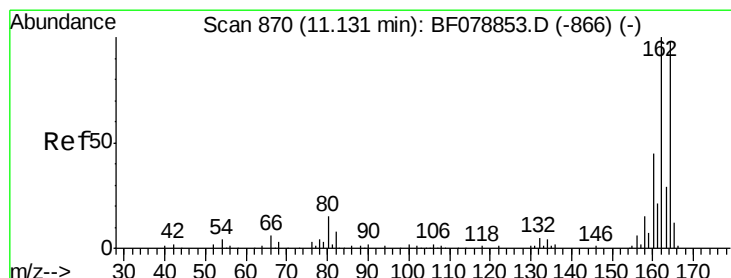
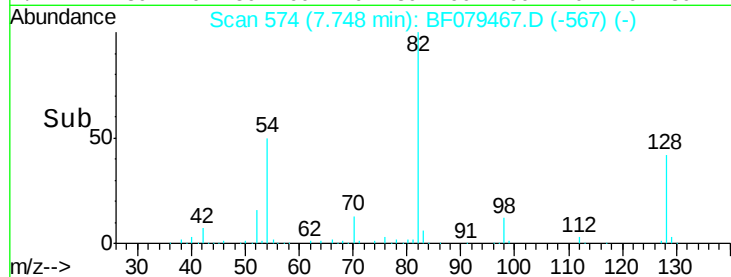
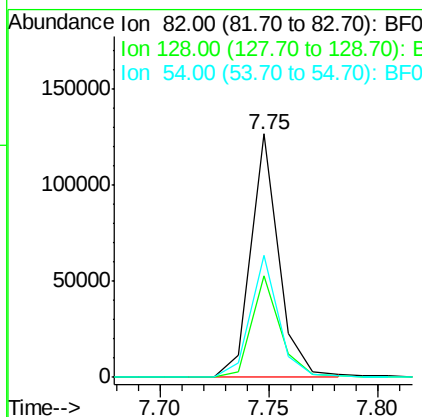
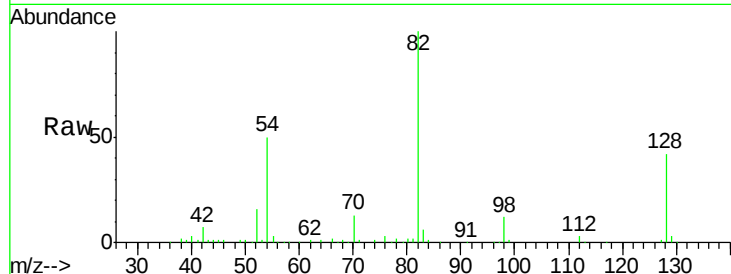
#23
 Nitrobenzene-d5
 Concen: 21.91 ng
 RT: 7.75 min Scan# 574
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-30S

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	41.6	29.7	44.5	
54	49.9	46.2	69.4	

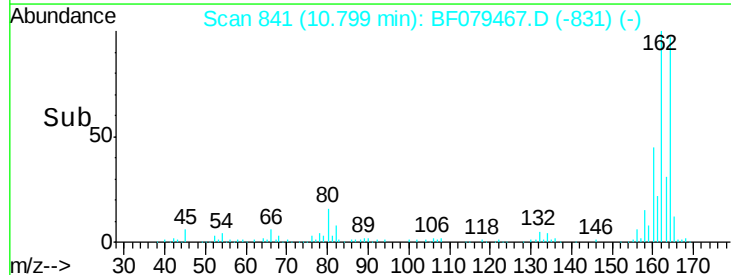
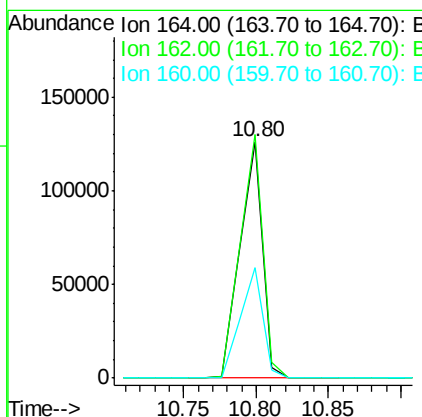
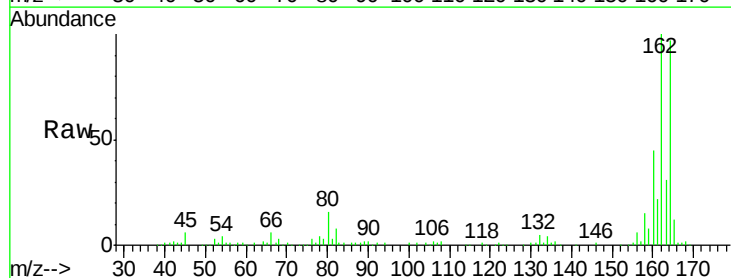
Manual Integrations
 APPROVED

apatel
 5/27/2015 8:18:18 AM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.80 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.2	81.4	122.0	
160	46.8	36.6	54.8	





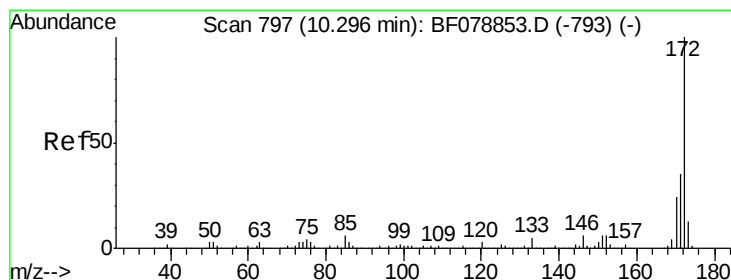
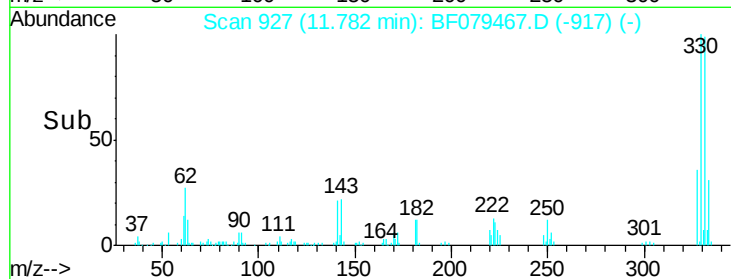
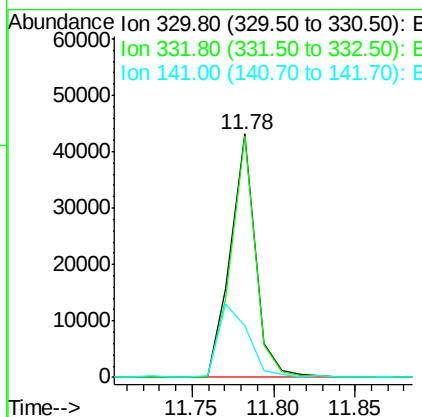
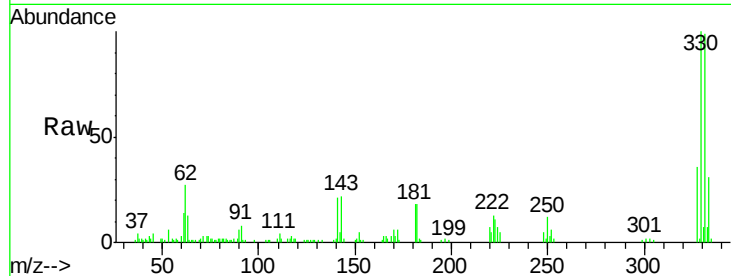
#41
 2,4,6-Tribromophenol
 Concen: 31.35 ng
 RT: 11.78 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-30S

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	36.5	27.8	41.8

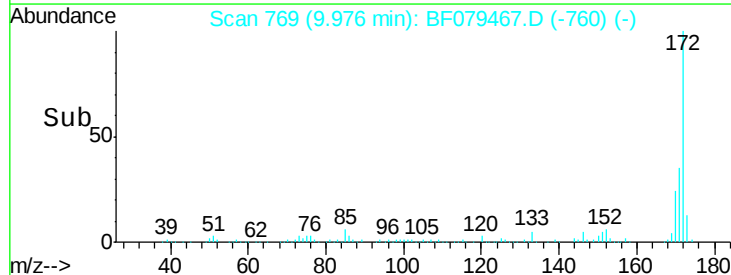
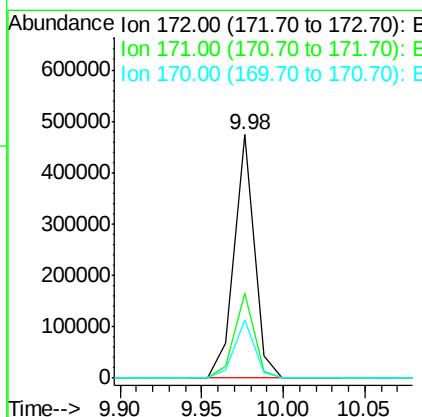
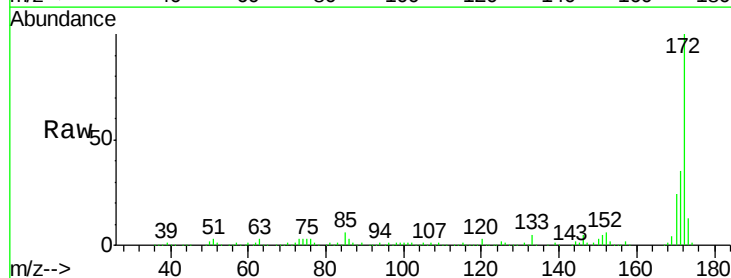
Manual Integrations
 APPROVED

apatel
 5/27/2015 8:18:18 AM



#44
 2-Fluorobiphenyl
 Concen: 41.57 ng
 RT: 9.98 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.3	42.5
170	23.9	19.4	29.2





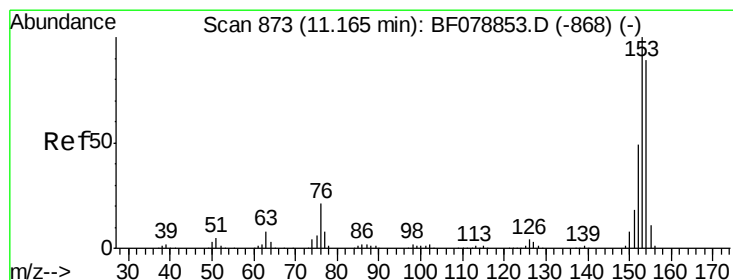
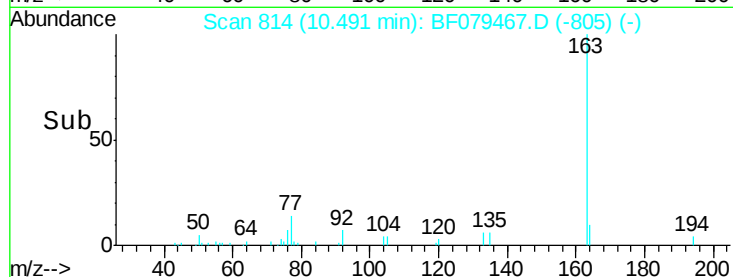
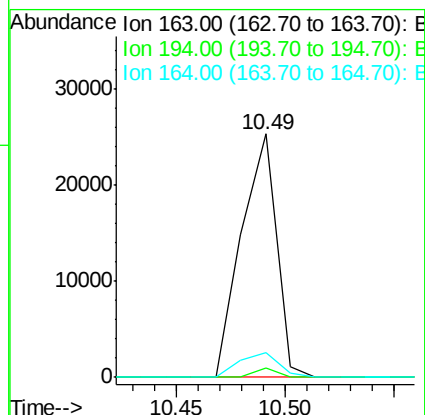
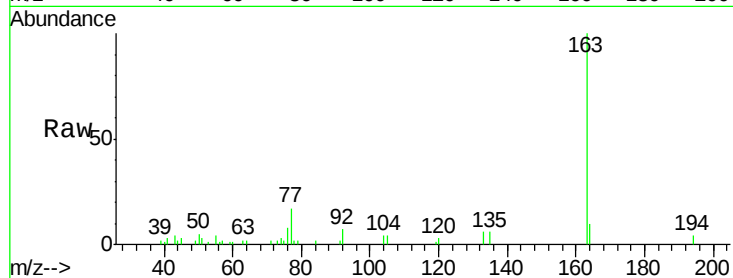
#49
Dimethylphthalate
Concen: 2.86 ng
RT: 10.49 min Scan# 814
Delta R.T. 0.00 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Instrument :
BNA_F
ClientSampleId :
SB-30S

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.4	3.6#
164	10.0	8.6	12.8

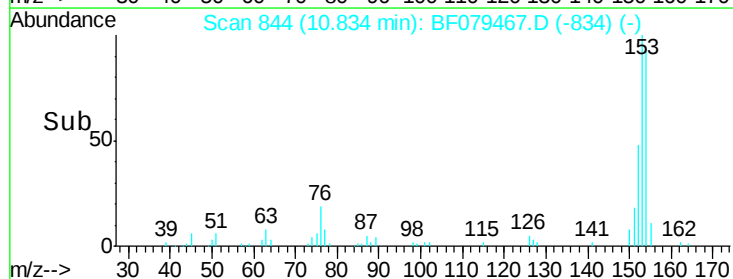
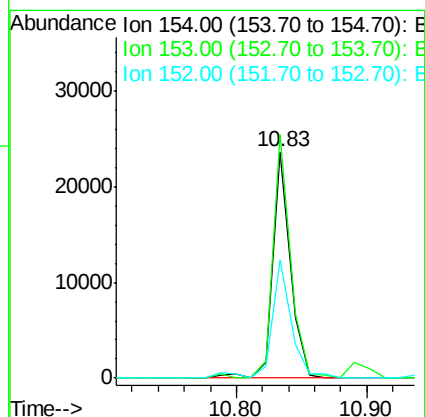
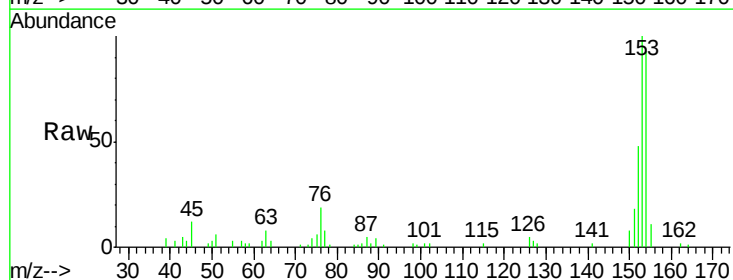
Manual Integrations
APPROVED

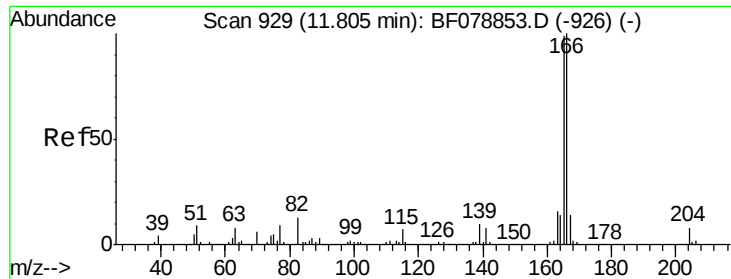
apatel
5/27/2015 8:18:18 AM



#51
Acenaphthene
Concen: 2.74 ng
RT: 10.83 min Scan# 844
Delta R.T. 0.00 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
154	100		
153	107.9	90.2	135.2
152	52.2	43.8	65.8





#57

Fluorene

Concen: 2.96 ng

RT: 11.47 min Scan# 900

Delta R.T. 0.00 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Instrument :

BNA_F

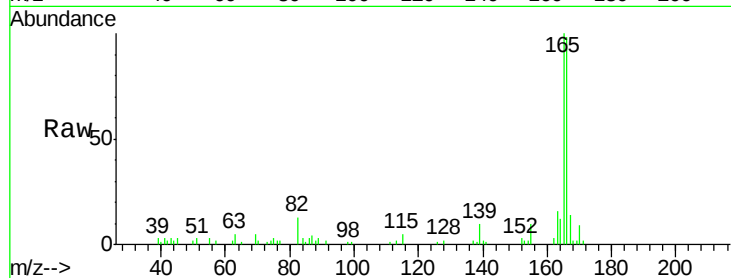
ClientSampleId :

SB-30S

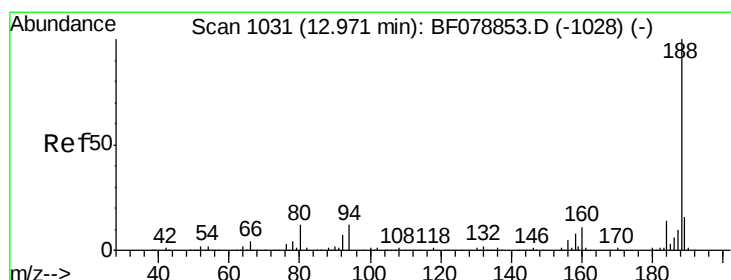
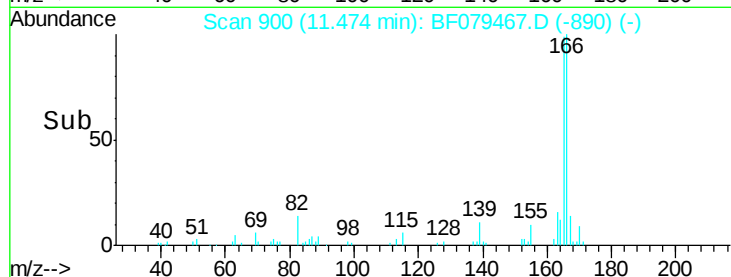
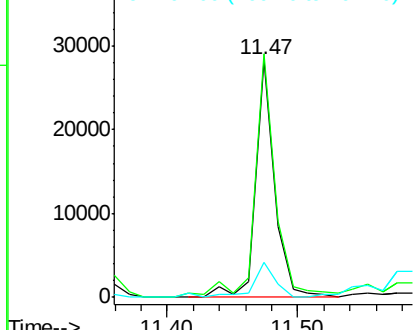
Tot Ion:	166	Resp:	28897
Ion Ratio	Lower	Upper	
166	100		
165	102.4	79.5	119.3
167	14.4	11.0	16.6

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM



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: 12.63 min Scan# 1001

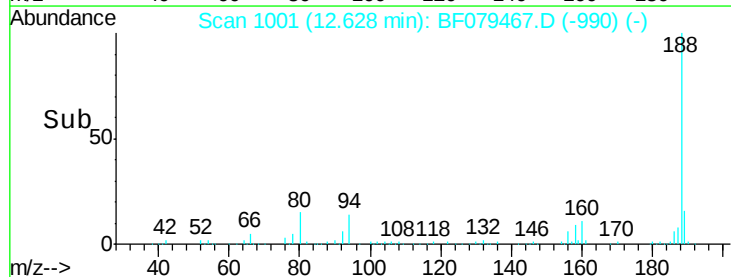
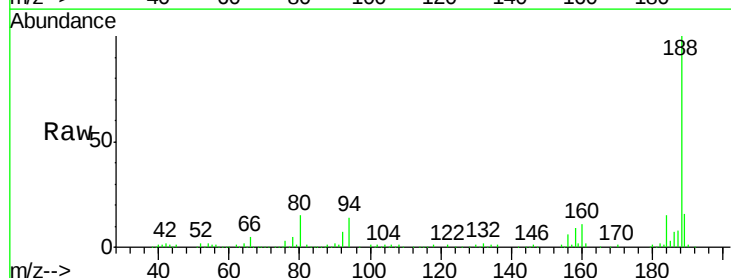
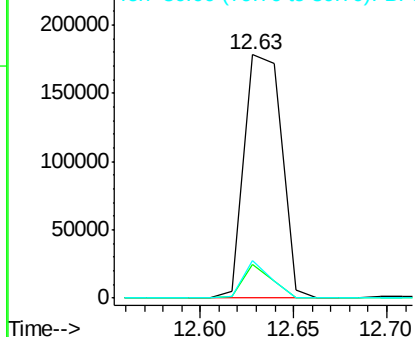
Delta R.T. 0.00 min

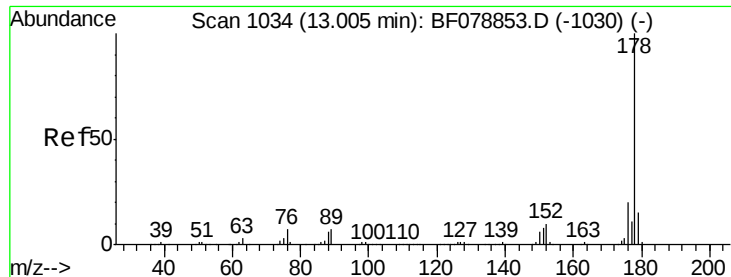
Lab File: BF079467.D

Acq: 23 May 2015 10:18

Tgt Ion:	188	Resp:	248376
Ion Ratio	Lower	Upper	
188	100		
94	14.0	9.4	14.0#
80	15.4	9.8	14.6#

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





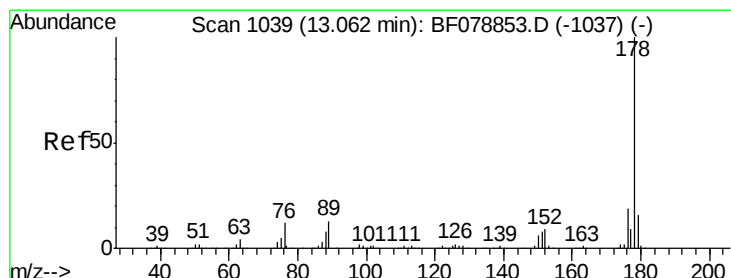
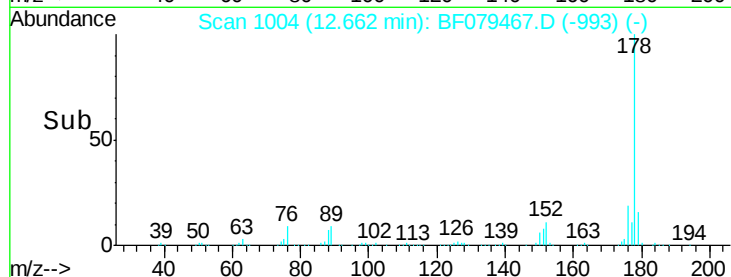
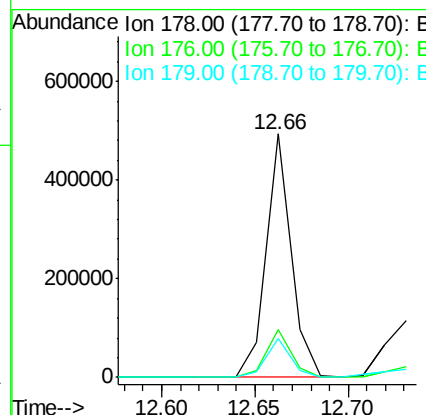
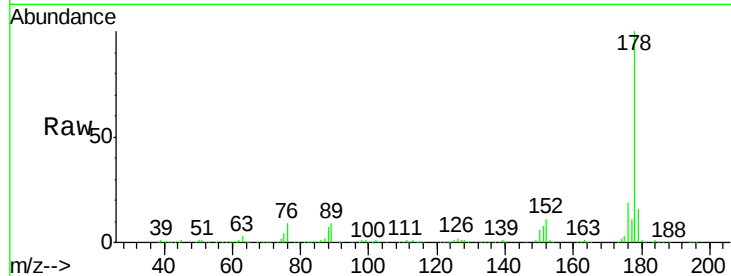
#70
Phenanthrene
Concen: 32.91 ng
RT: 12.66 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Instrument :
BNA_F
ClientSampleId :
SB-30S

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.7	12.2	18.4

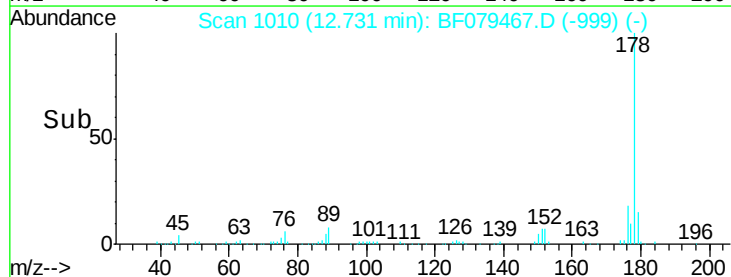
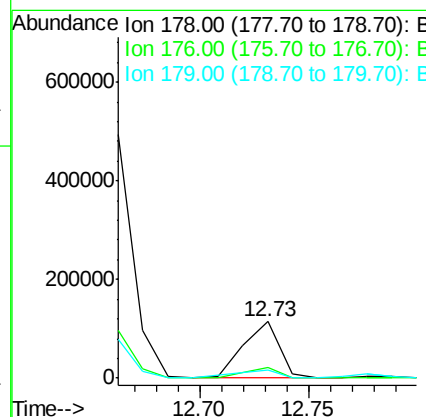
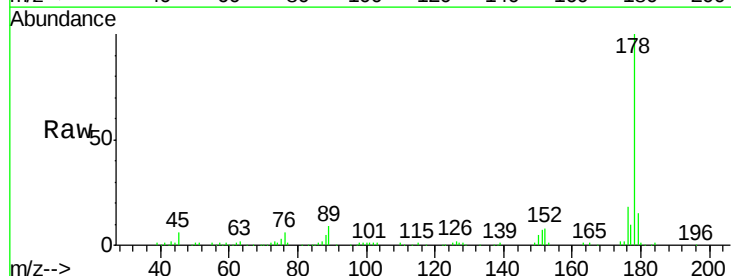
Manual Integrations
APPROVED

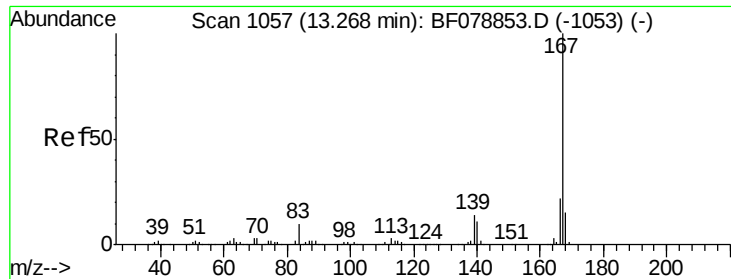
apatel
5/27/2015 8:18:18 AM



#71
Anthracene
Concen: 9.47 ng
RT: 12.73 min Scan# 1010
Delta R.T. 0.00 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.3	22.9
179	15.2	12.6	19.0





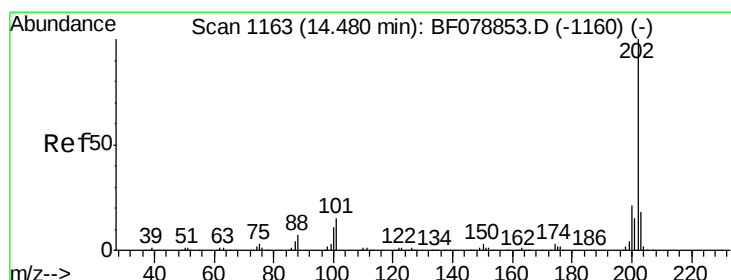
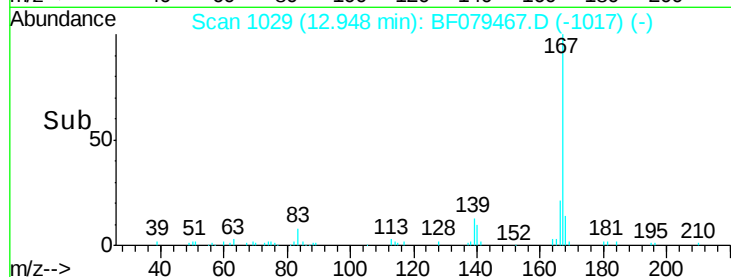
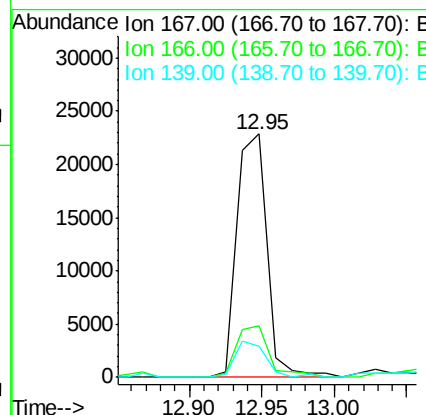
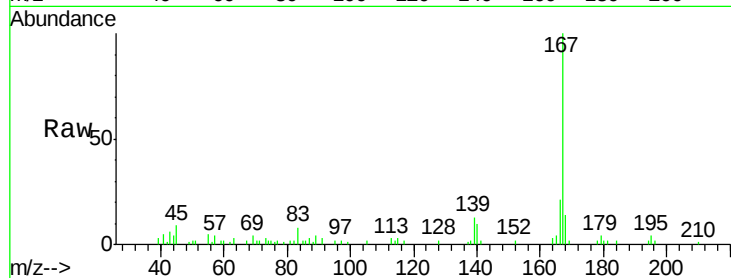
#72
 Carbazole
 Concen: 2.54 ng
 RT: 12.95 min Scan# 1029
 Delta R.T. 0.01 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-30S

Tot Ion:	167	Resp:	32963
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.5	26.3
139	12.8	11.0	16.4

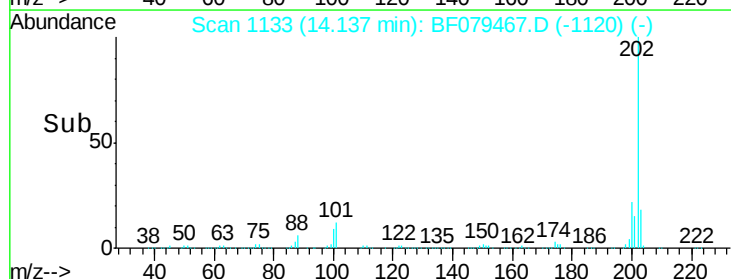
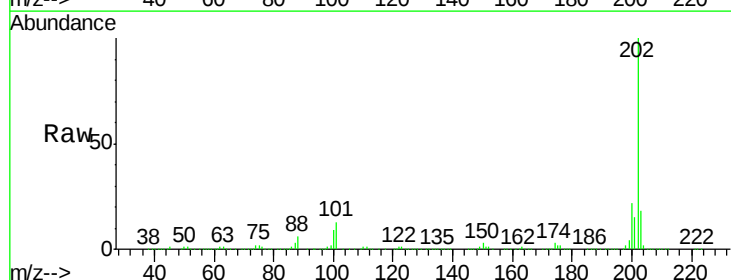
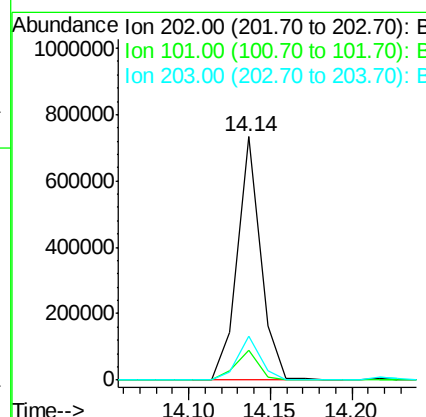
Manual Integrations
 APPROVED

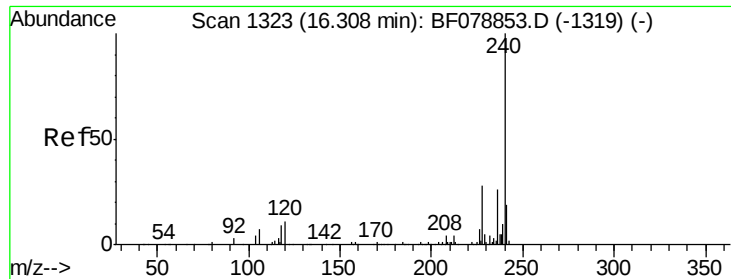
apatel
 5/27/2015 8:18:18 AM



#74
 Fluoranthene
 Concen: 49.56 ng
 RT: 14.14 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: BF079467.D
 Acq: 23 May 2015 10:18

Tgt Ion:	202	Resp:	717562
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	34.7
203	18.2	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Instrument :

BNA_F

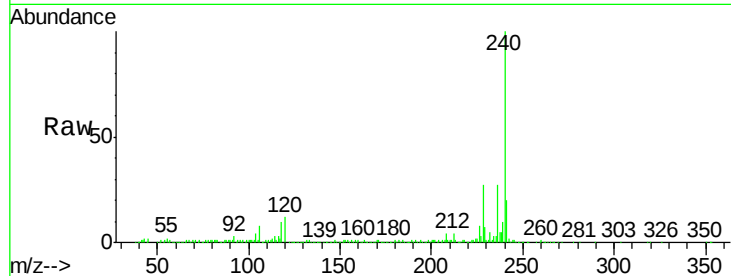
ClientSampleId :

SB-30S

Tot Ion:	240	Resp:	259875
Ion Ratio	Lower	Upper	
240	100		
120	12.2	8.6	12.8
236	26.7	21.0	31.6

Manual Integrations
APPROVED

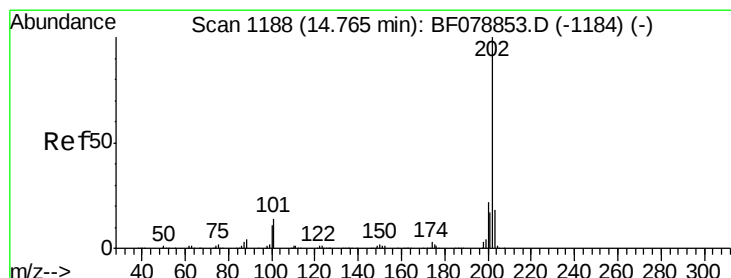
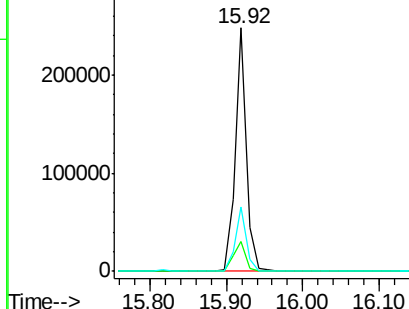
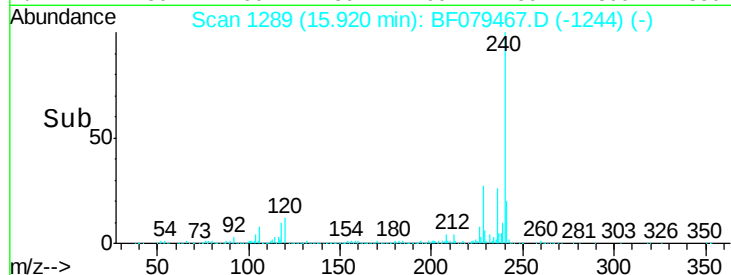
apatel
5/27/2015 8:18:18 AM



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



#77

Pyrene

Concen: 44.84 ng

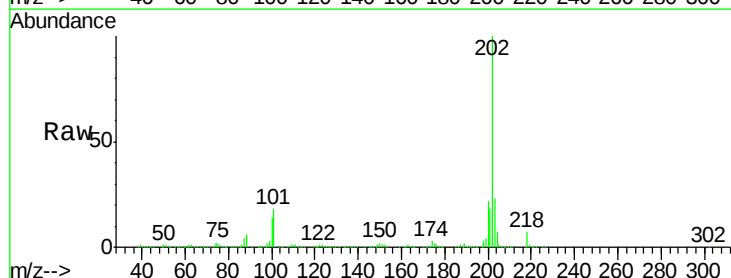
RT: 14.41 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

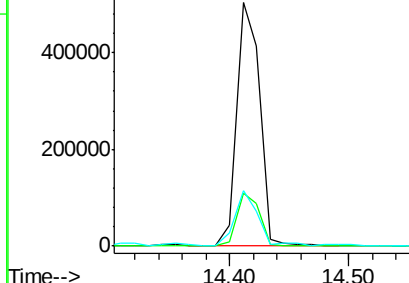
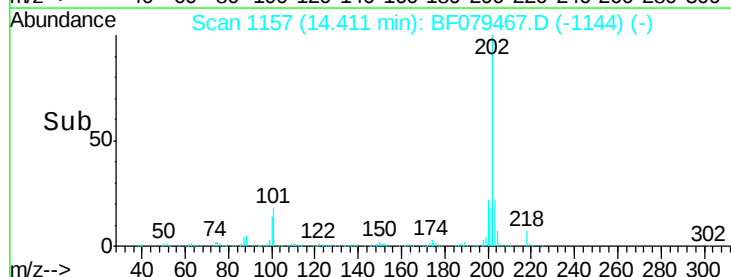
Tgt Ion:	202	Resp:	671467
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.5	26.3
203	22.7	14.7	22.1#

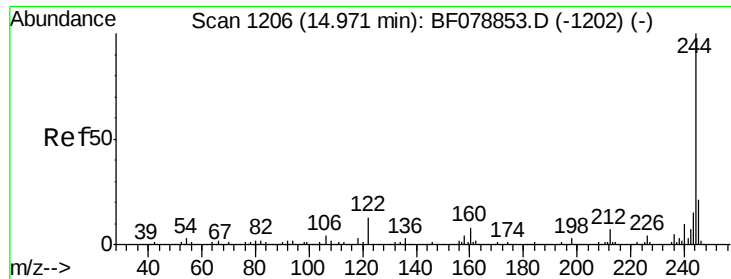


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 36.96 ng

RT: 14.63 min Scan# 1176

Delta R.T. 0.00 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Instrument :

BNA_F

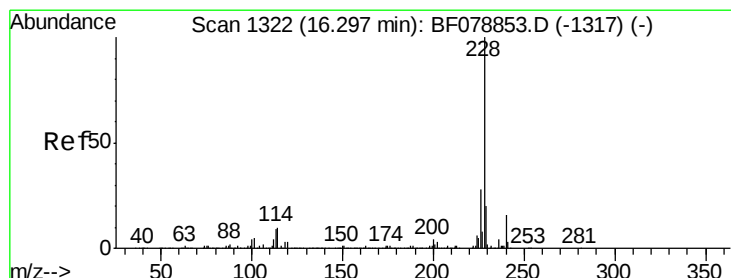
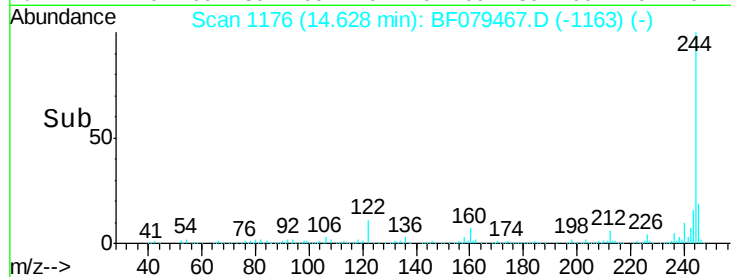
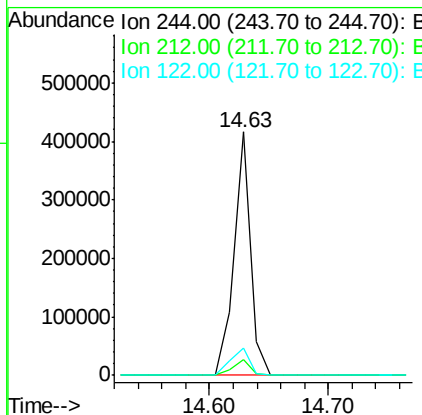
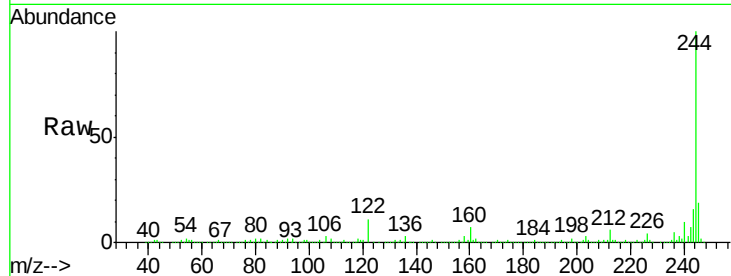
ClientSampled :

SB-30S

Tot Ion:	244	Resp:	401191
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.6	8.4
122	11.5	10.5	15.7

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM



#80

Benzo(a)anthracene

Concen: 29.72 ng

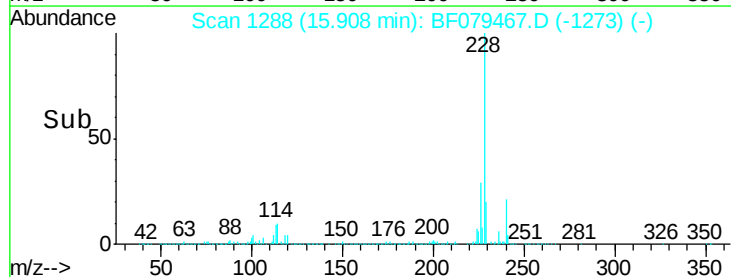
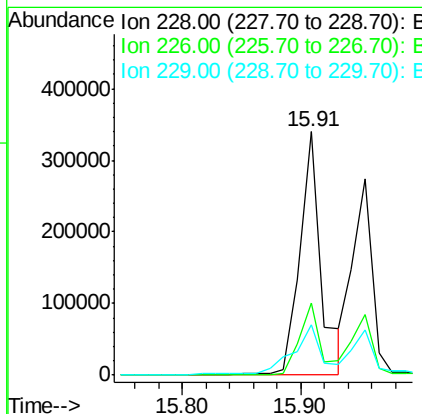
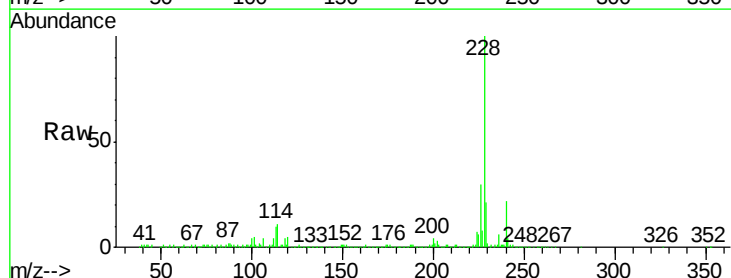
RT: 15.91 min Scan# 1288

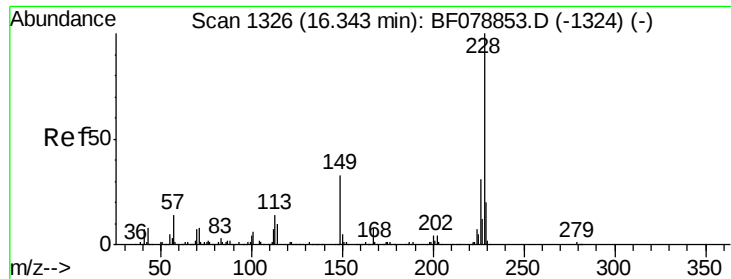
Delta R.T. 0.01 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Tgt Ion:	228	Resp:	422895
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.3	33.5
229	20.6	16.1	24.1





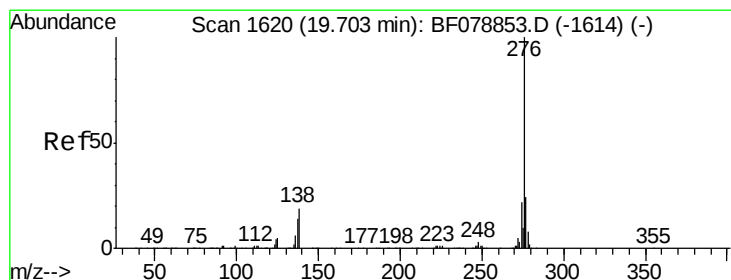
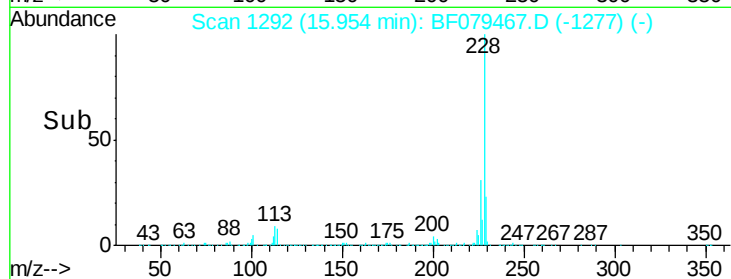
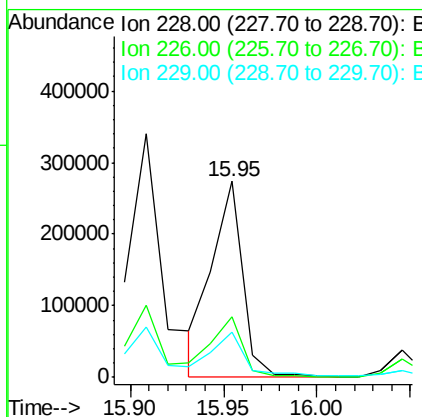
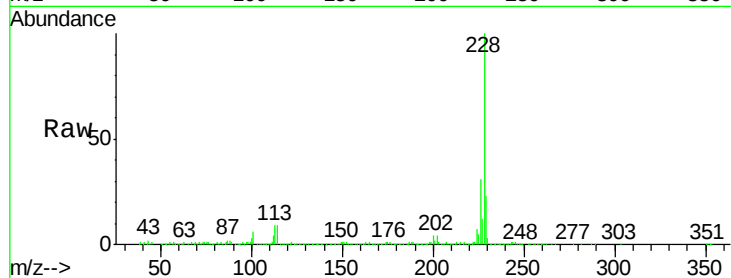
#82
Chrysene
Concen: 22.83 ng
RT: 15.95 min Scan# 1292
Delta R.T. 0.01 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Instrument :
BNA_F
ClientSampleId :
SB-30S

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.8	37.2
229	23.0	16.1	24.1

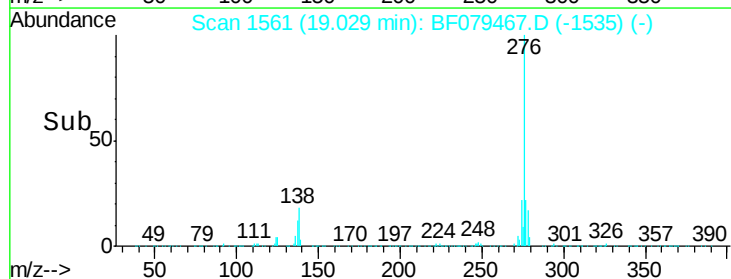
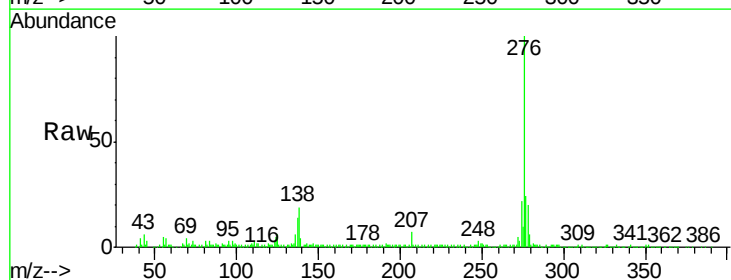
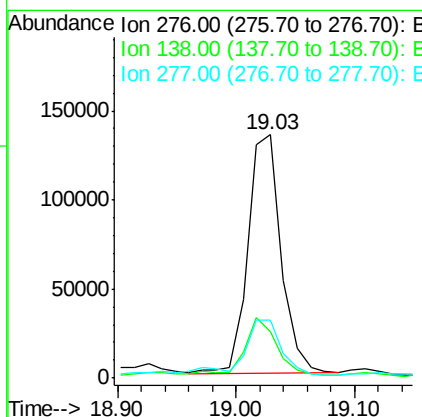
Manual Integrations
APPROVED

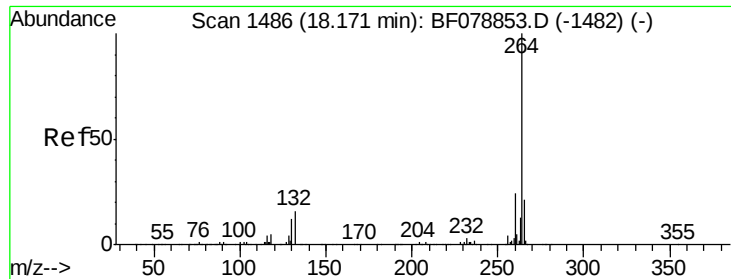
apatel
5/27/2015 8:18:18 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 15.07 ng
RT: 19.03 min Scan# 1561
Delta R.T. 0.09 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.9	21.1	31.7
277	28.4	19.9	29.9





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.67 min Scan# 1442

Delta R.T. 0.06 min

Lab File: BF079467.D

Acq: 23 May 2015 10:18

Instrument :

BNA_F

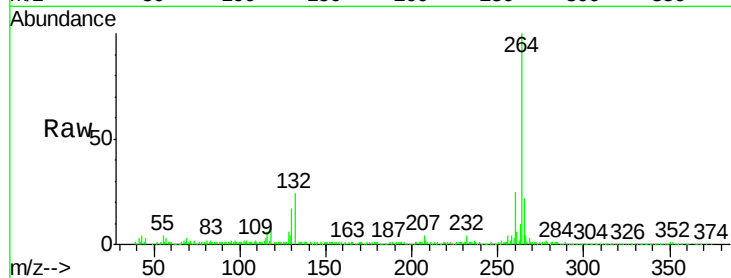
ClientSampleId :

SB-30S

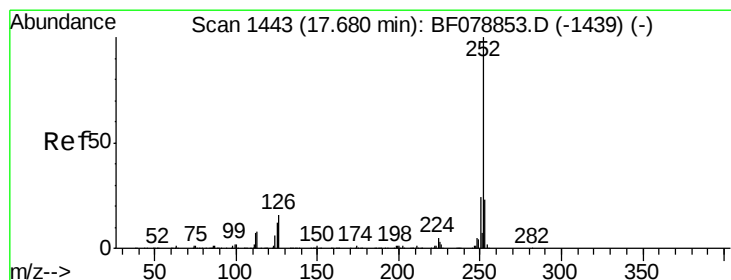
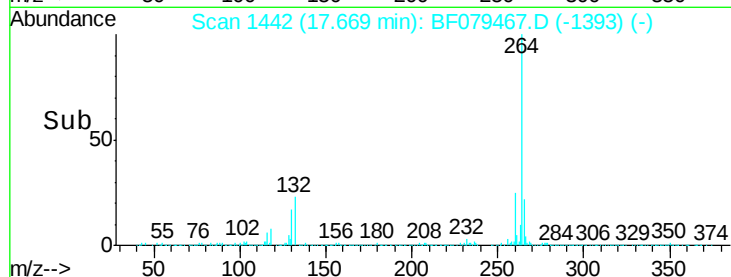
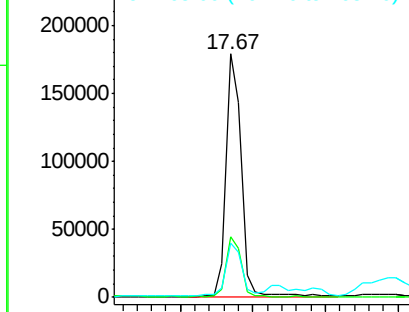
Tot Ion:	264	Resp:	260747
Ion Ratio	Lower	Upper	
264	100		
260	25.1	19.2	28.8
265	22.2	17.2	25.8

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM



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: 37.73 ng m

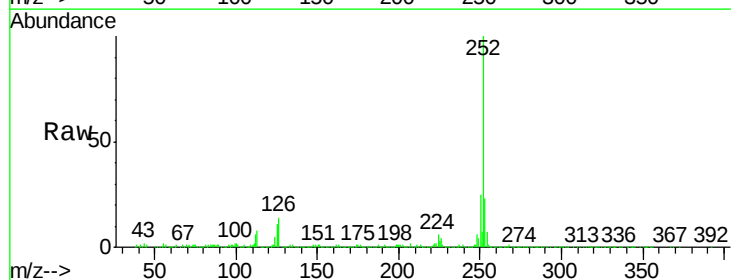
RT: 17.22 min Scan# 1403

Delta R.T. 0.05 min

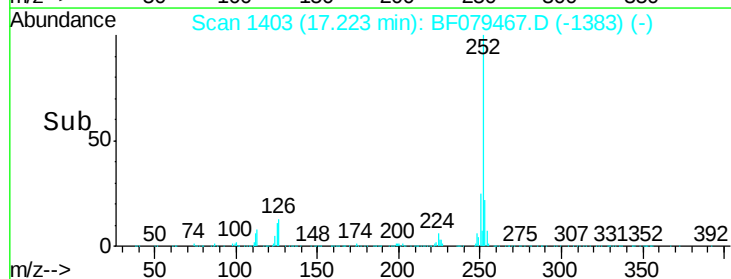
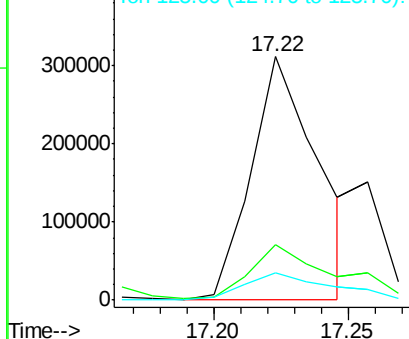
Lab File: BF079467.D

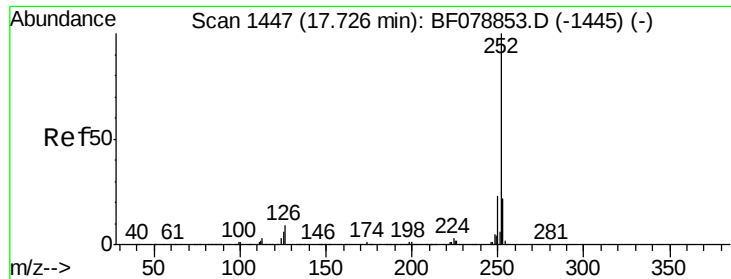
Acq: 23 May 2015 10:18

Tgt Ion:	252	Resp:	538465
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.1	27.1
125	11.5	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





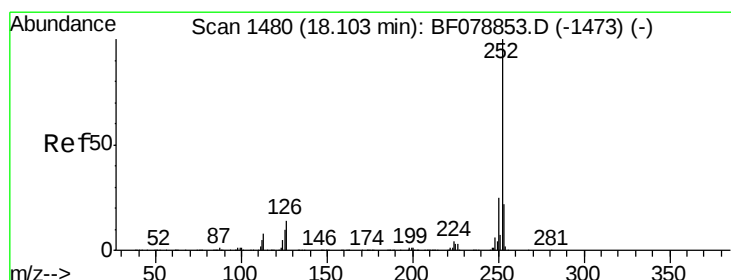
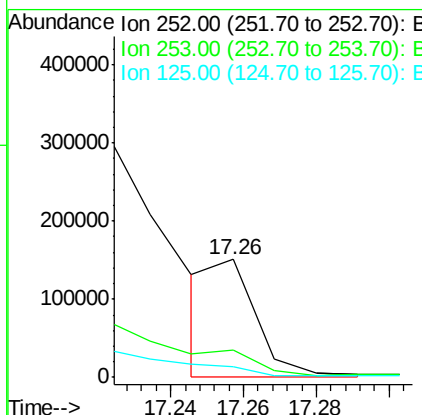
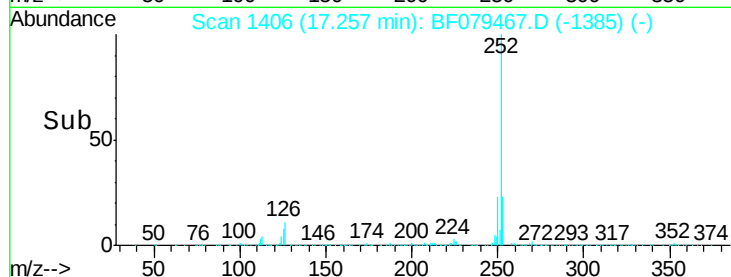
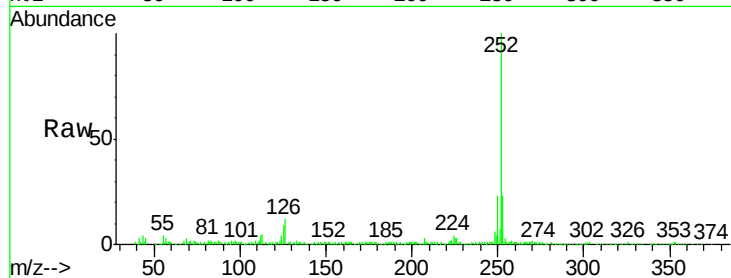
#88
Benzo(k)fluoranthene
Concen: 9.05 ng m
RT: 17.26 min Scan# 1406
Delta R.T. 0.06 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Instrument :
BNA_F
ClientSampleId :
SB-30S

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	9.1	6.1	9.1

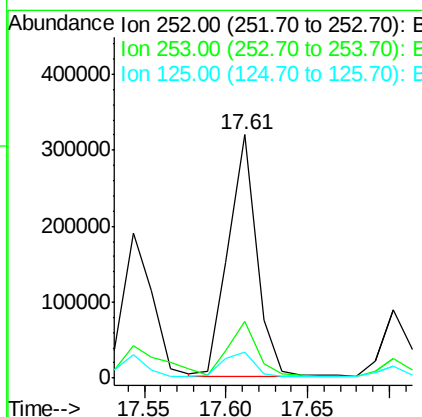
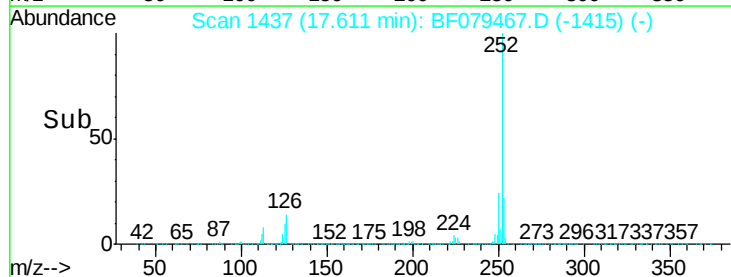
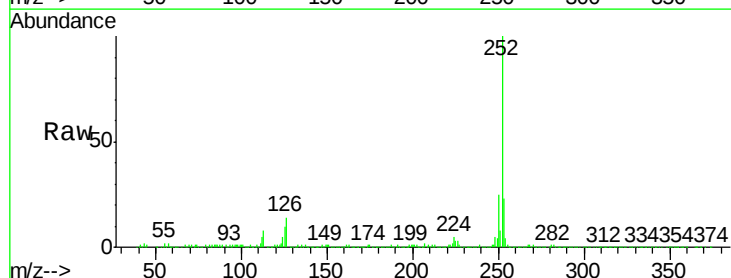
Manual Integrations
APPROVED

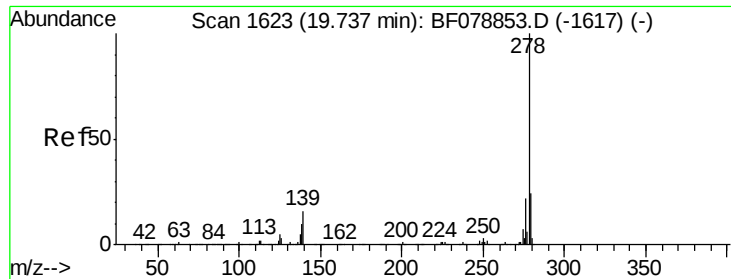
apatel
5/27/2015 8:18:18 AM



#89
Benzo(a)pyrene
Concen: 29.23 ng
RT: 17.61 min Scan# 1437
Delta R.T. 0.07 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	10.5	8.2	12.2





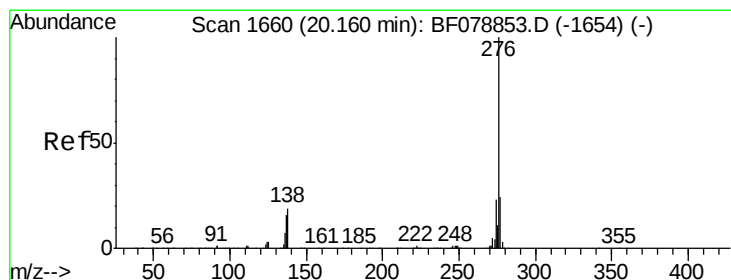
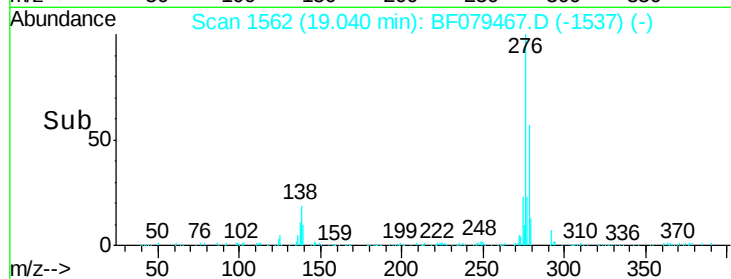
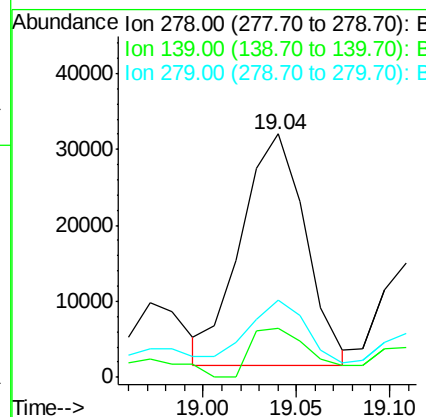
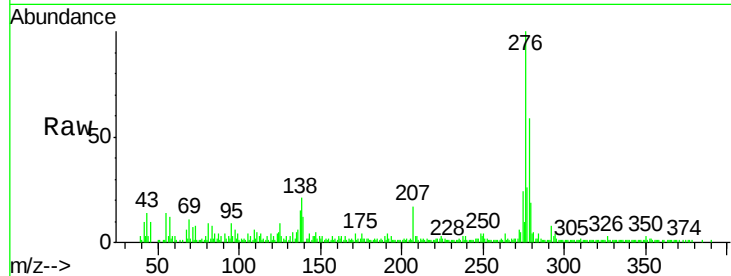
#90
Dibenzo(a,h)anthracene
Concen: 5.22 ng
RT: 19.04 min Scan# 1562
Delta R.T. 0.08 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Instrument :
BNA_F
ClientSampleId :
SB-30S

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.0	13.1	19.7#
279	31.8	19.1	28.7#

Manual Integrations
APPROVED

apatel
5/27/2015 8:18:18 AM



#91
Benzo(g,h,i)perylene
Concen: 17.99 ng
RT: 19.42 min Scan# 1595
Delta R.T. 0.09 min
Lab File: BF079467.D
Acq: 23 May 2015 10:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.8	28.2
138	22.0	15.2	22.8

