

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070115\
 Data File : BF080306.D
 Acq On : 2 Jul 2015 9:39
 Operator : TP/UM
 Sample : G2831-07DL 10X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(0-2)DL

Manual Integrations
 APPROVED

apatel
 7/2/2015 2:40:47 PM

Quant Time: Jul 02 12:10:59 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 02 03:50:52 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.27	152	43296	20.00	ng	0.00
21) Naphthalene-d8	8.55	136	178355	20.00	ng	-0.01
38) Acenaphthene-d10	10.32	164	96435	20.00	ng	0.00
63) Phenanthrene-d10	11.83	188	188323	20.00	ng	0.00
75) Chrysene-d12	14.80	240	183410	20.00	ng	0.06
86) Perylene-d12	16.67	264	178104	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.88	112	34028	13.61	ng	0.00
7) Phenol-d6	6.87	99	49329	14.70	ng	0.00
23) Nitrobenzene-d5	7.82	82	27084	8.36	ng	0.00
41) 2,4,6-Tribromophenol	11.12	330	8701	9.48	ng	0.00
44) 2-Fluorobiphenyl	9.62	172	55728	8.32	ng	-0.01
78) Terphenyl-d14	13.52	244	63703	8.14	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.57	128	19316	2.13	ng	97
51) Acenaphthene	10.36	154	21150	3.33	ng	95
57) Fluorene	10.87	166	20677	2.78	ng	96
70) Phenanthrene	11.85	178	449501	39.84	ng	99
71) Anthracene	11.90	178	80101	7.40	ng	99
72) Carbazole	12.06	167	29099	2.87	ng	99
74) Fluoranthene	13.11	202	519105	44.53	ng	95
77) Pyrene	13.37	202	556668	47.42	ng	99
80) Benzo(a)anthracene	14.79	228	280767	25.33	ng	97
82) Chrysene	14.84	228	226643	22.18	ng	98
85) Indeno(1,2,3-cd)pyrene	18.47	276	122950	10.70	ng	# 92
87) Benzo(b)fluoranthene	16.14	252	270007m	24.00	ng	
88) Benzo(k)fluoranthene	16.17	252	98346m	9.28	ng	
89) Benzo(a)pyrene	16.60	252	197567m	19.27	ng	
90) Dibenzo(a,h)anthracene	18.48	278	27469	2.86	ng	94
91) Benzo(g,h,i)perylene	19.01	276	126634	12.62	ng	98

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

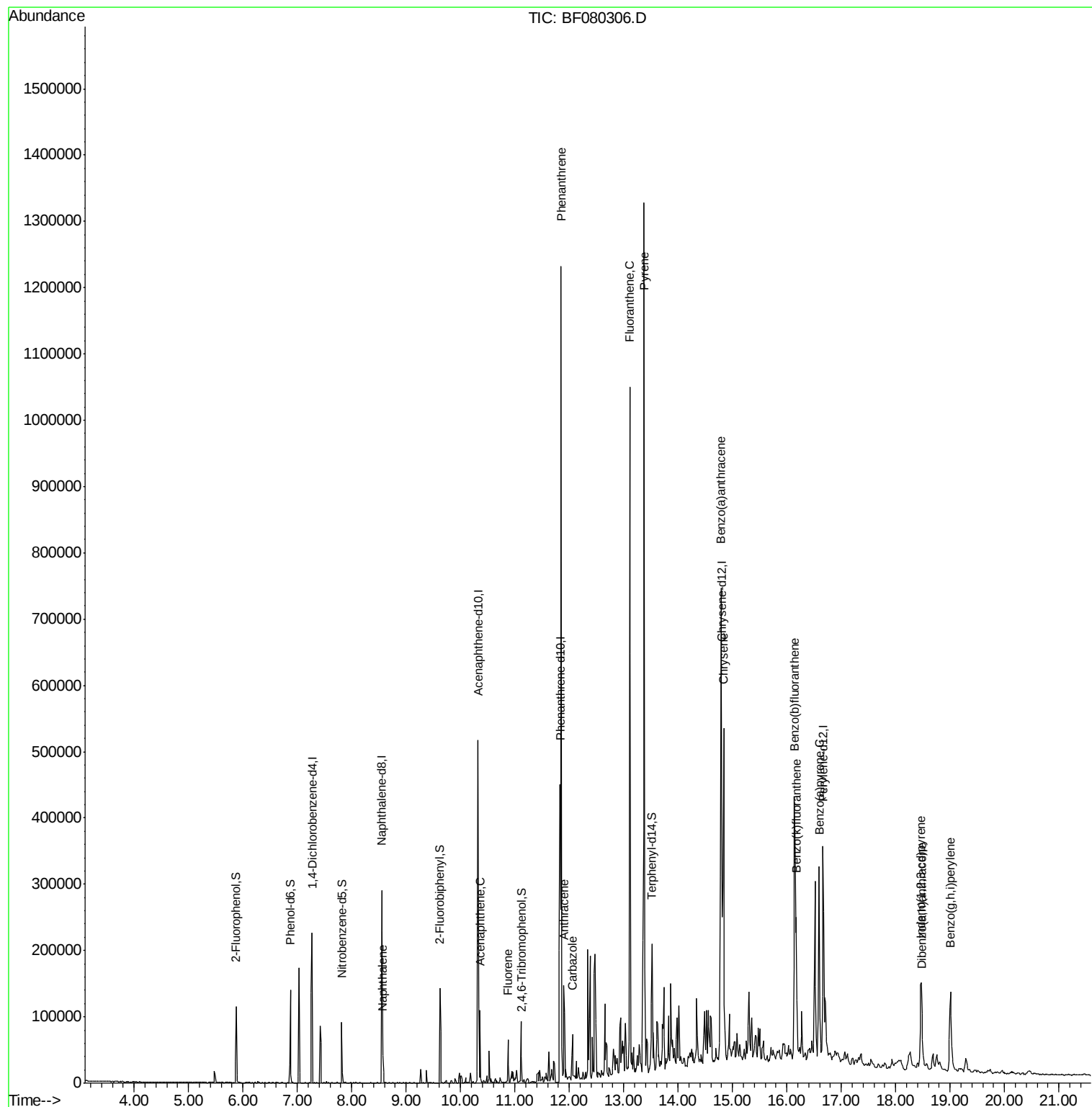
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070115\
Data File : BF080306.D
Acq On : 2 Jul 2015 9:39
Operator : TP/UM
Sample : G2831-07DL 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

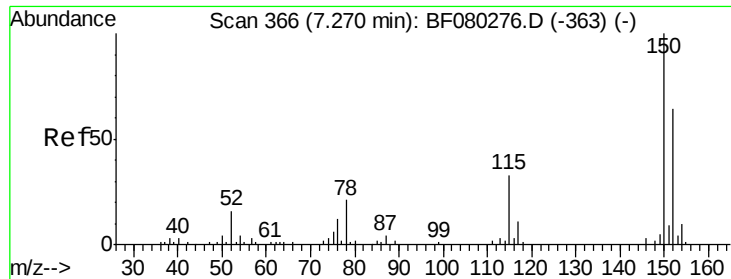
Instrument :
BNA_F
ClientSampleId :
SP-4(0-2)DL

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM

Quant Time: Jul 02 12:10:59 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 02 03:50:52 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Instrument :

BNA_F

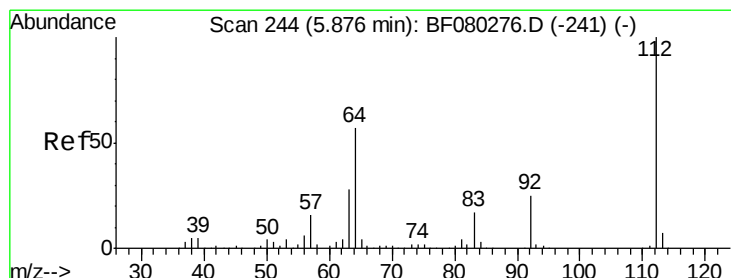
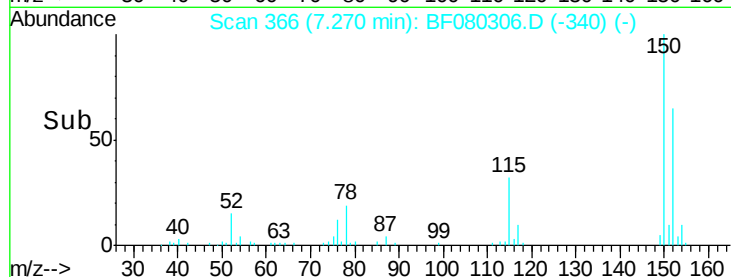
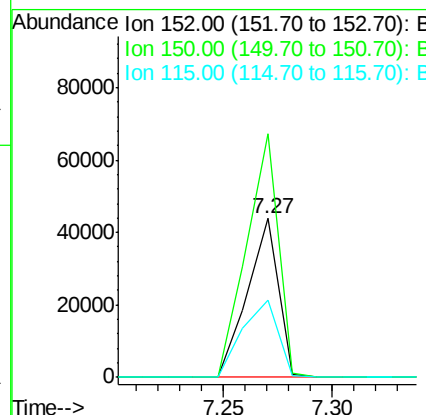
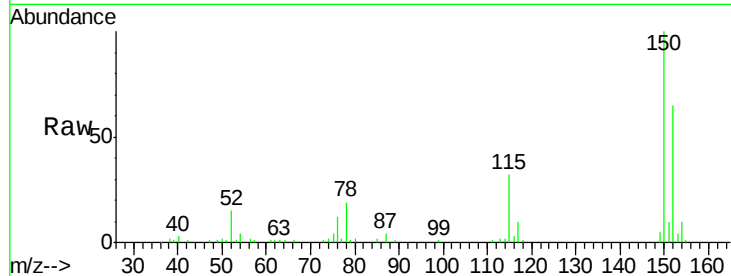
ClientSampleId :

SP-4(0-2)DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.7	187.1
115	48.6	41.0	61.6

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



#5

2-Fluorophenol

Concen: 13.61 ng

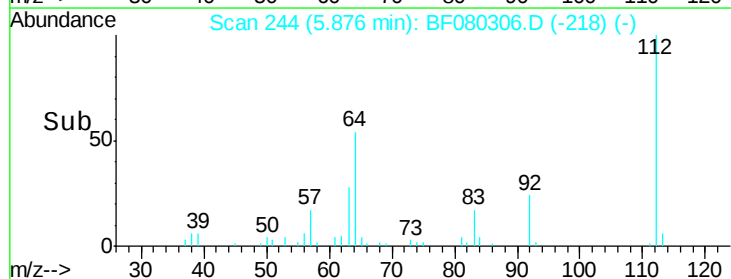
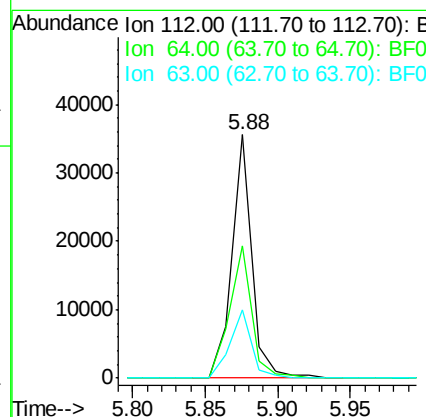
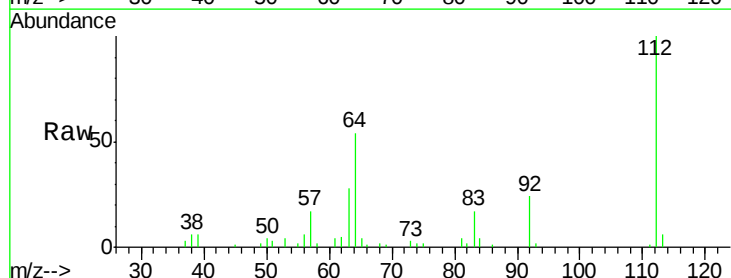
RT: 5.88 min Scan# 244

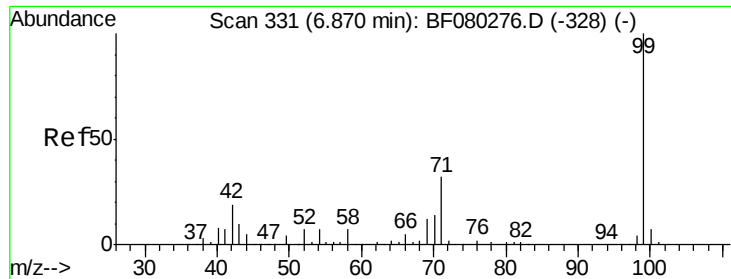
Delta R.T. 0.00 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	45.5	68.3
63	27.8	22.4	33.6





#7

Phenol-d6

Concen: 14.70 ng

RT: 6.87 min Scan# 331

Delta R.T. 0.00 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Instrument :

BNA_F

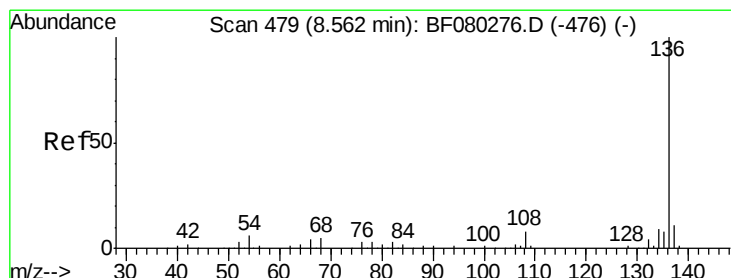
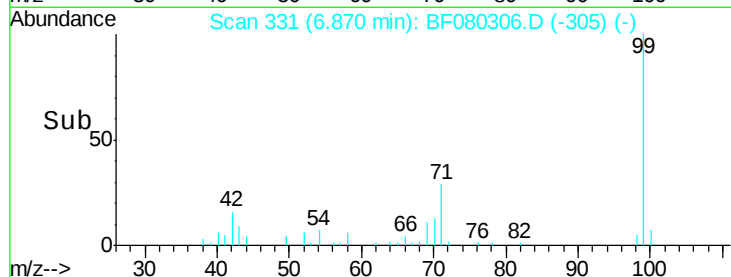
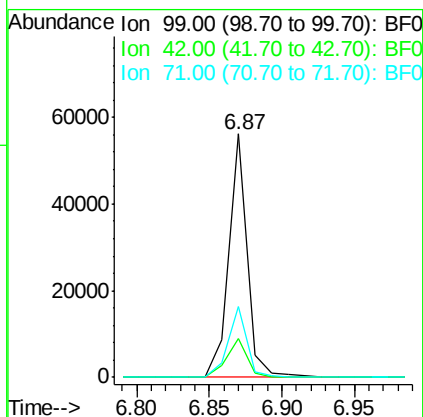
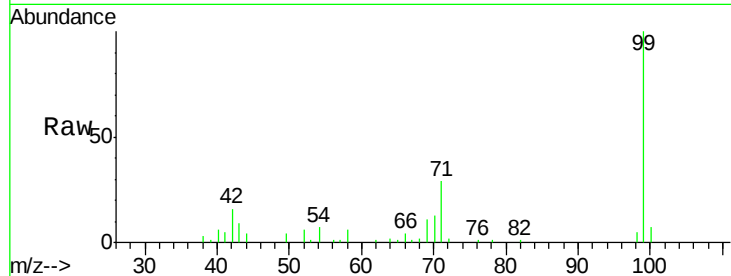
ClientSampleId :

SP-4(0-2)DL

Tgt Ion:	99	Resp:	49329
Ion Ratio	Lower	Upper	
99	100		
42	16.2	15.4	23.2
71	28.8	25.8	38.8

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



#21

Naphthalene-d8

Concen: 20.00 ng

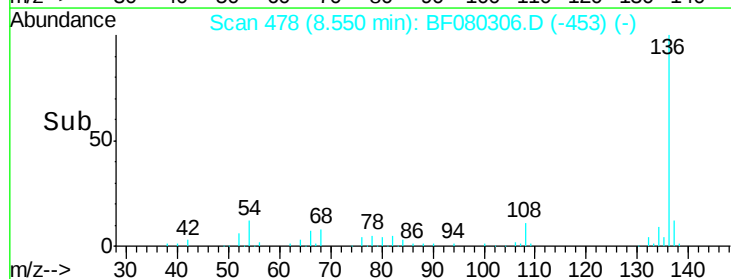
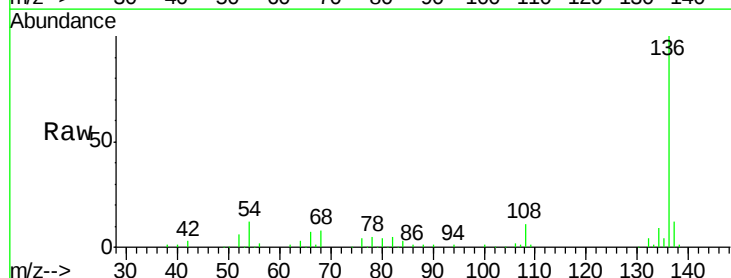
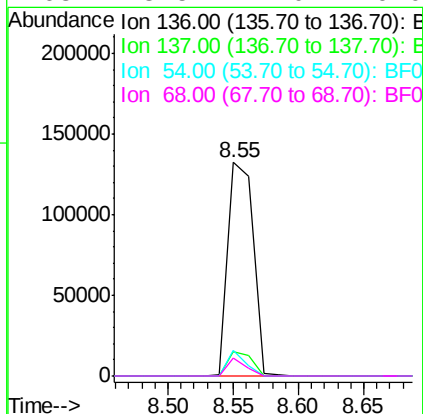
RT: 8.55 min Scan# 478

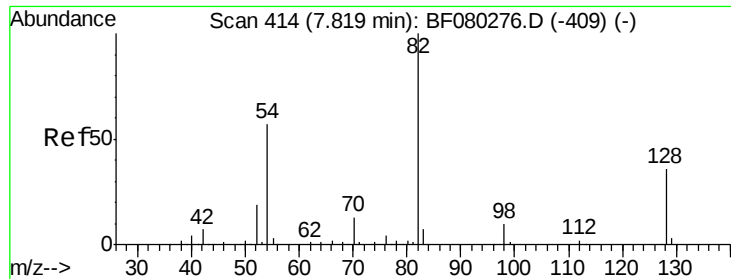
Delta R.T. -0.01 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Tgt Ion:	136	Resp:	178355
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.4	12.6
54	12.2	4.9	7.3#
68	8.5	4.0	6.0#





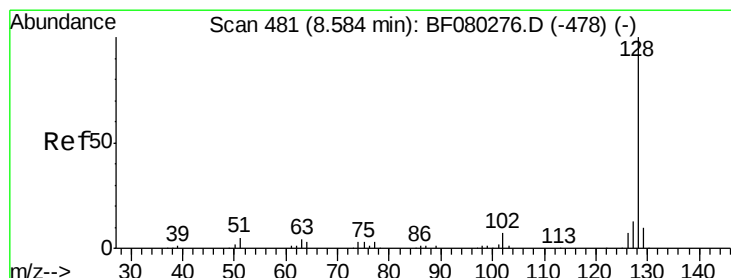
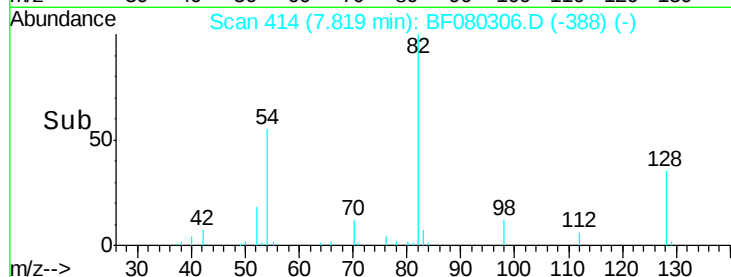
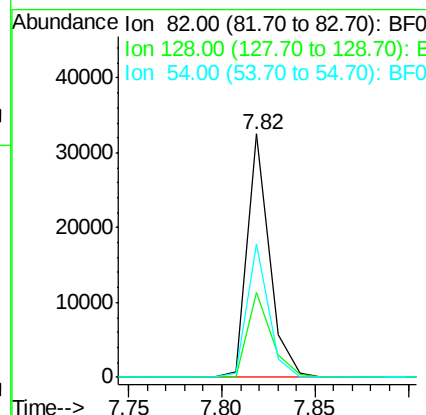
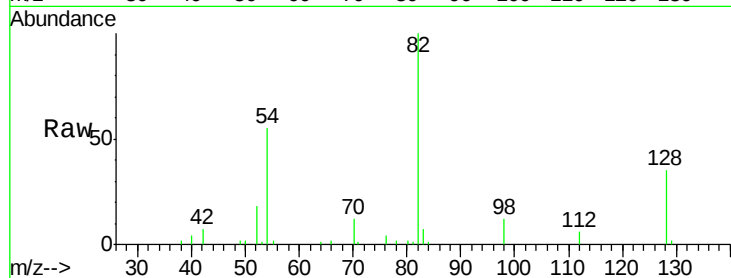
#23
 Nitrobenzene-d5
 Concen: 8.36 ng
 RT: 7.82 min Scan# 414
 Delta R.T. 0.00 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(0-2)DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.0	43.4
54	54.8	45.3	67.9

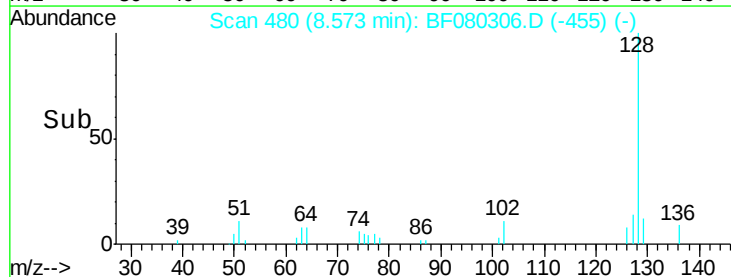
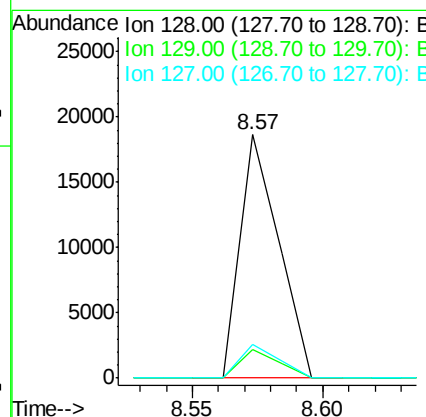
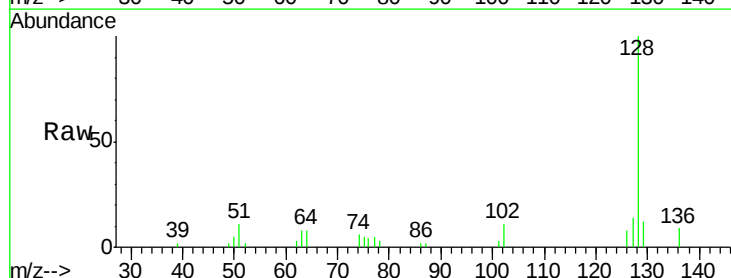
Manual Integrations
 APPROVED

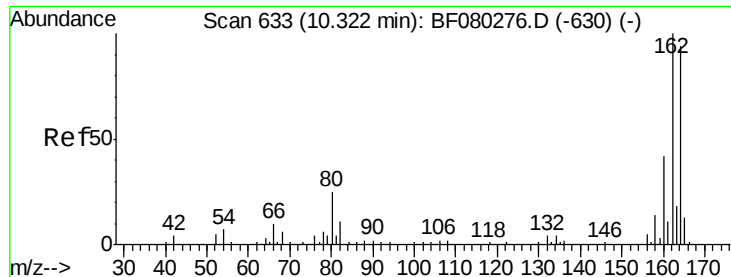
apatel
 7/2/2015 2:40:47 PM



#31
 Naphthalene
 Concen: 2.13 ng
 RT: 8.57 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.2	12.4
127	13.7	10.4	15.6





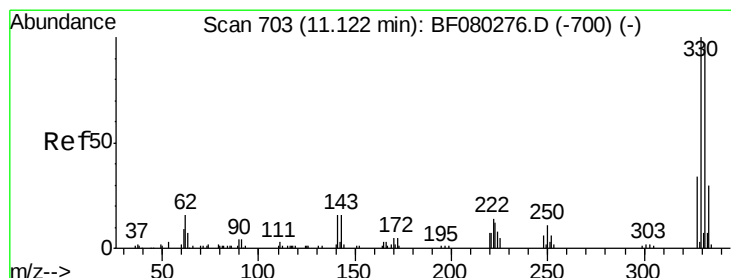
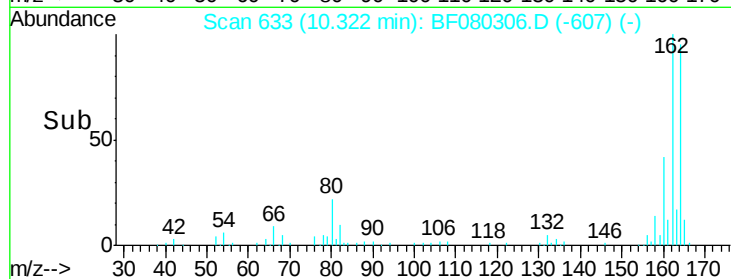
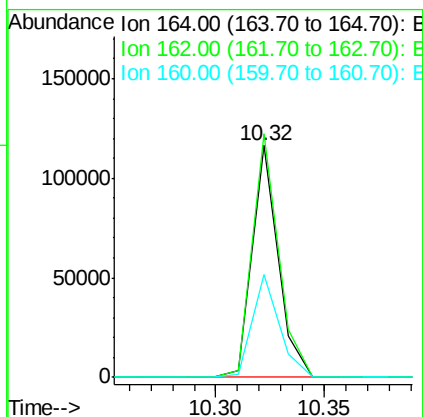
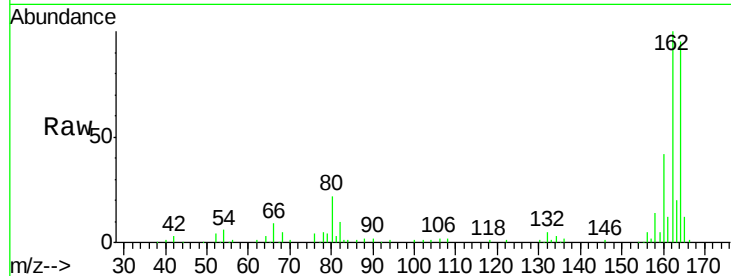
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.32 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(0-2)DL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.9	84.8	127.2	
160	44.5	35.8	53.8	

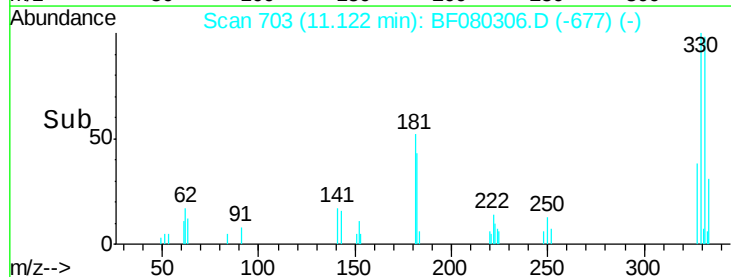
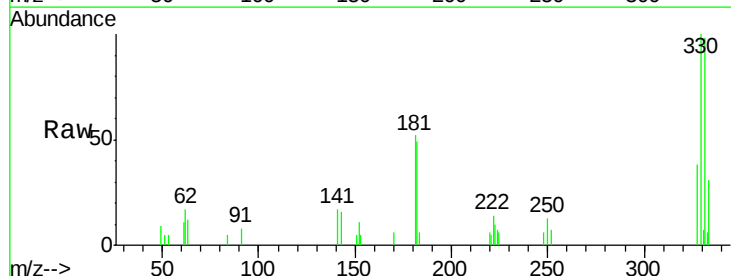
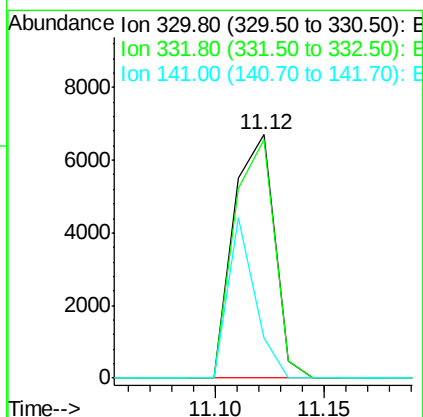
Manual Integrations
 APPROVED

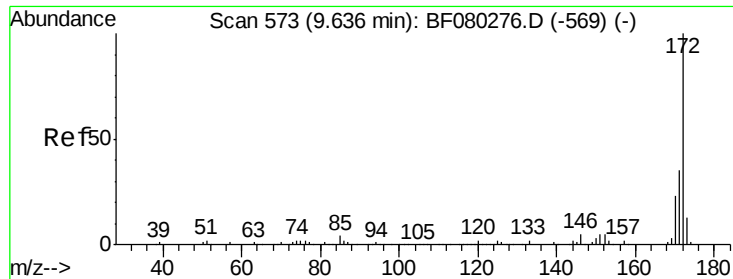
apatel
 7/2/2015 2:40:47 PM



#41
 2,4,6-Tribromophenol
 Concen: 9.48 ng
 RT: 11.12 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	77.4	116.2	
141	43.6	28.0	42.0	





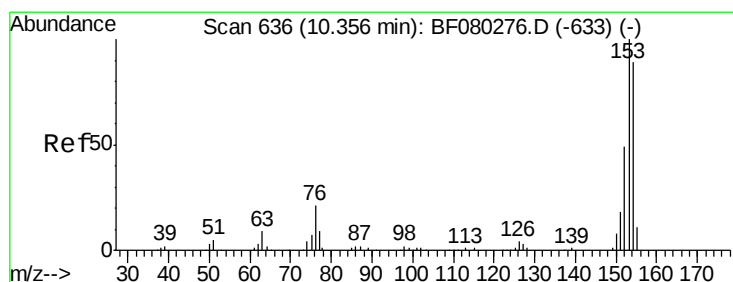
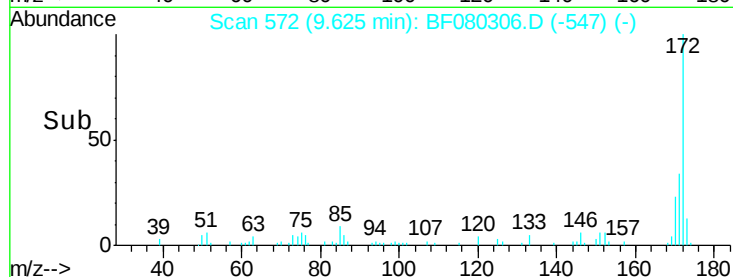
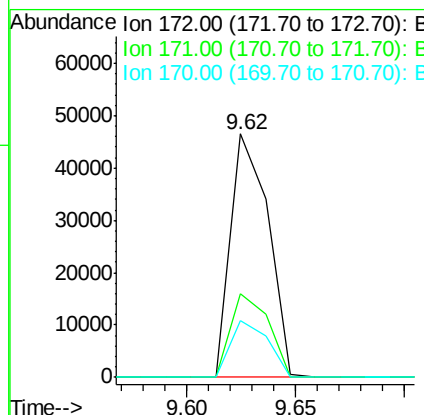
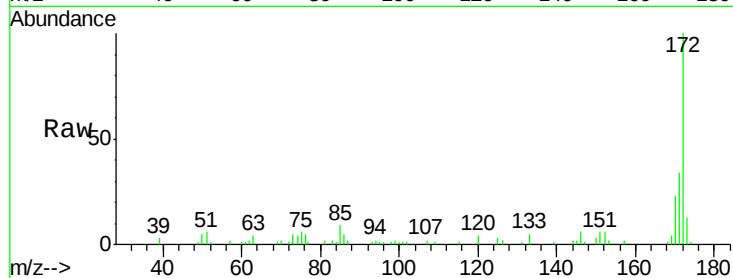
#44
2-Fluorobiphenyl
Concen: 8.32 ng
RT: 9.62 min Scan# 572
Delta R.T. -0.01 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Instrument :
BNA_F
ClientSampleId :
SP-4(0-2)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.2	28.1	42.1
170	23.2	18.6	28.0

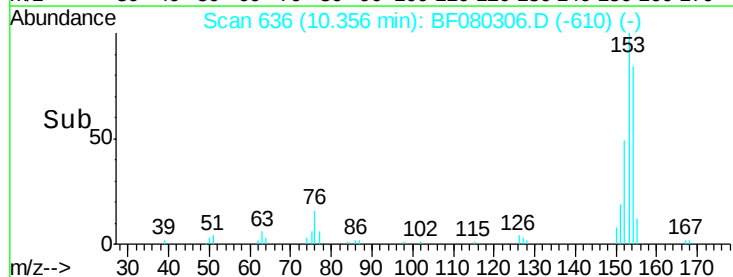
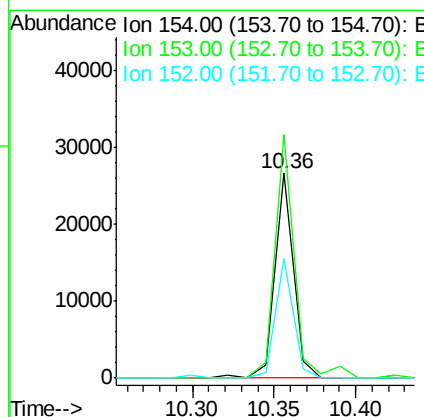
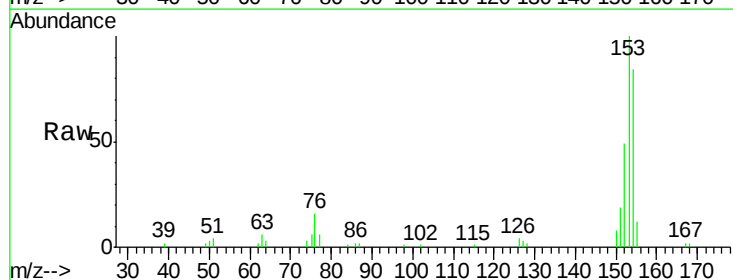
Manual Integrations
APPROVED

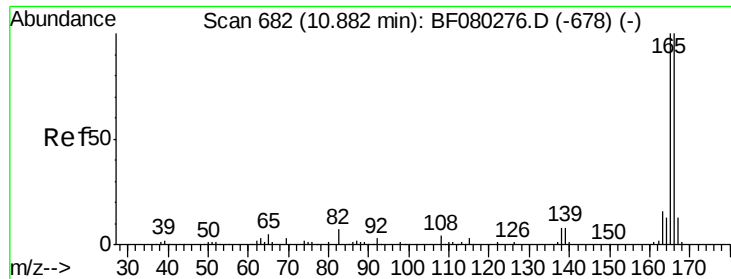
apatel
7/2/2015 2:40:47 PM



#51
Acenaphthene
Concen: 3.33 ng
RT: 10.36 min Scan# 636
Delta R.T. 0.00 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	119.0	90.4	135.6
152	58.2	43.9	65.9





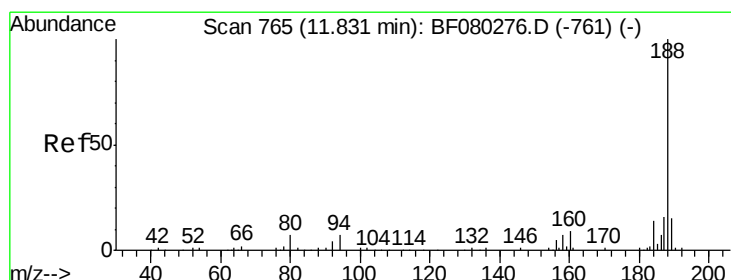
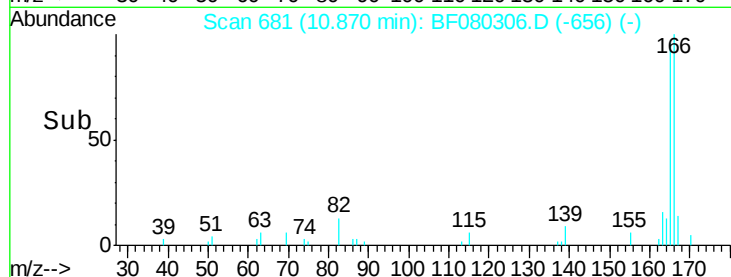
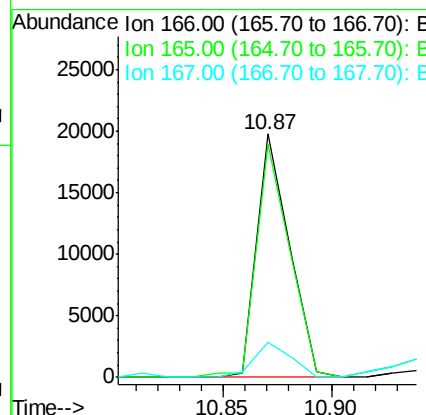
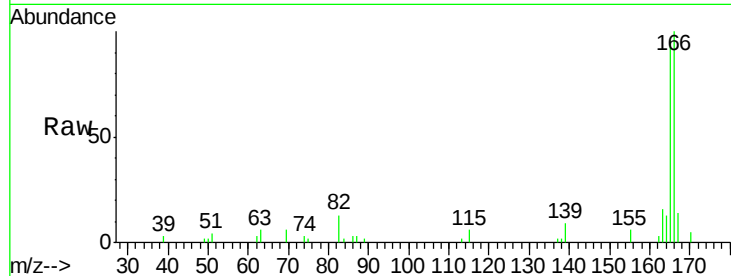
#57
Fluorene
 Concen: 2.78 ng
 RT: 10.87 min Scan# 681
 Delta R.T. -0.01 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Instrument :
 BNA_F
 ClientSampleID :
 SP-4(0-2)DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	20677		
165	95.7	79.9	119.9	
167	14.3	10.3	15.5	

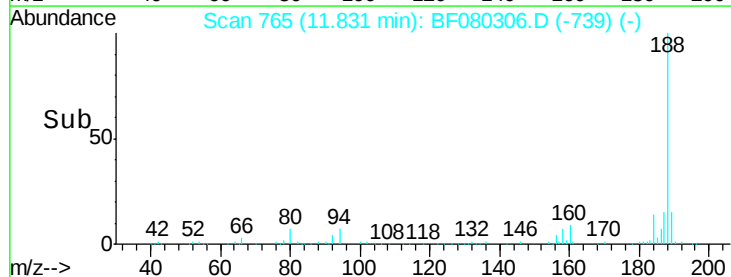
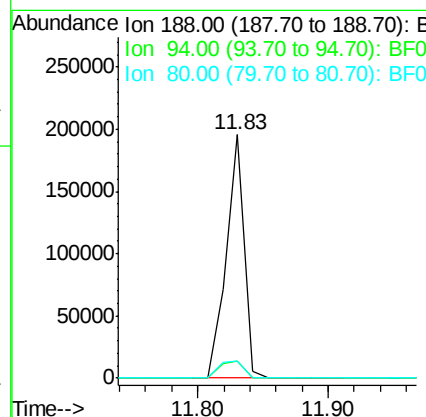
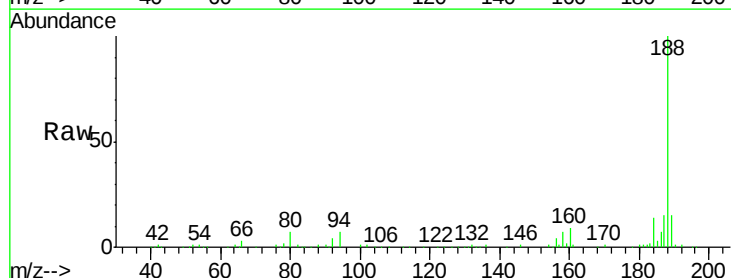
Manual Integrations
 APPROVED

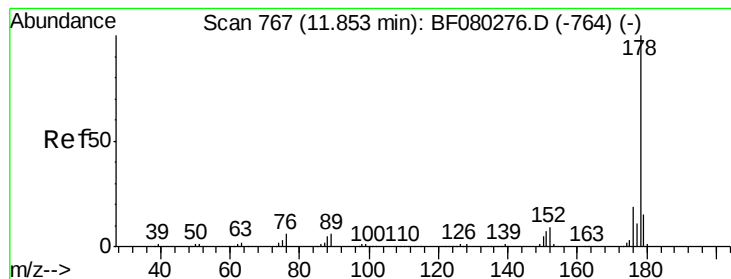
apatel
 7/2/2015 2:40:47 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.83 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	188323		
94	7.0	5.4	8.0	
80	7.2	5.8	8.6	





#70

Phenanthrene

Concen: 39.84 ng

RT: 11.85 min Scan# 767

Delta R.T. 0.00 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Instrument :

BNA_F

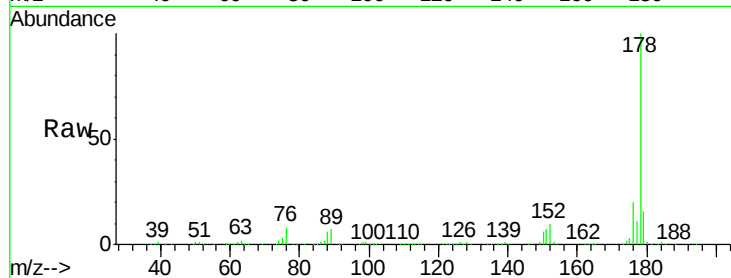
ClientSampled :

SP-4(0-2)DL

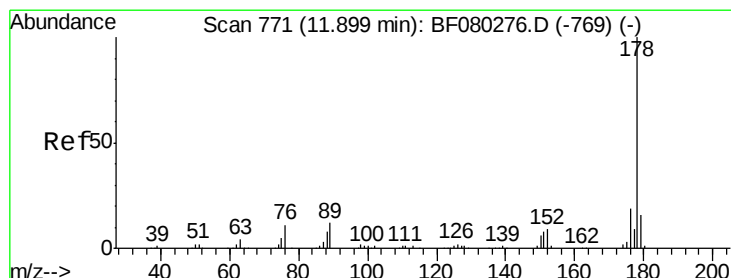
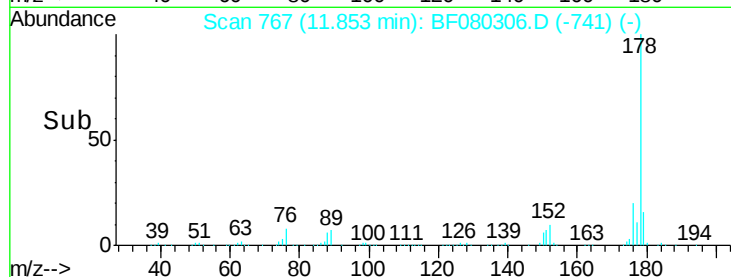
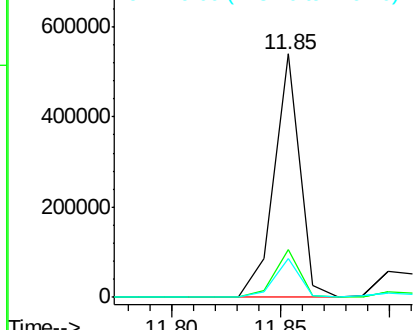
Tgt Ion:	178	Resp:	449501
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.6	23.4
179	16.0	12.2	18.2

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 7.40 ng

RT: 11.90 min Scan# 771

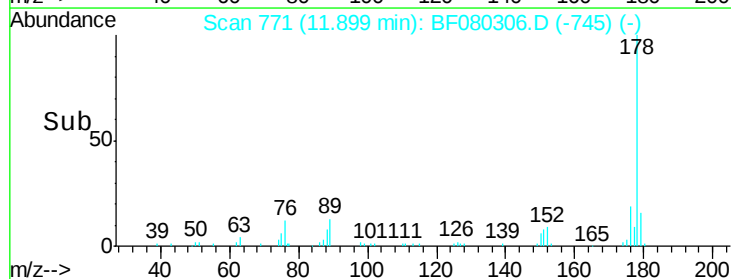
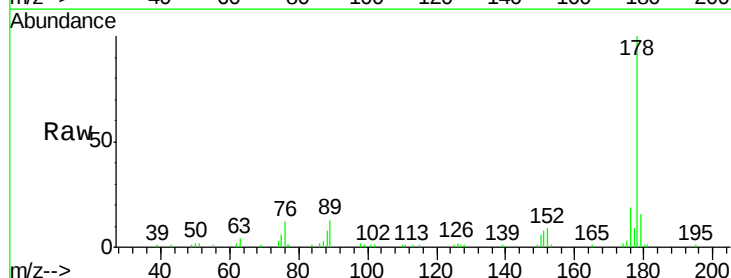
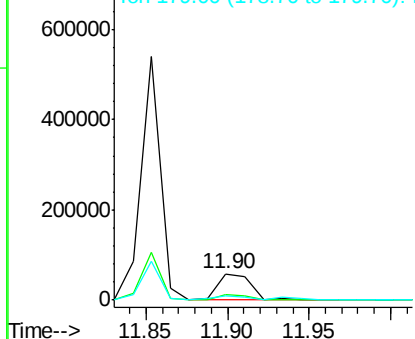
Delta R.T. 0.00 min

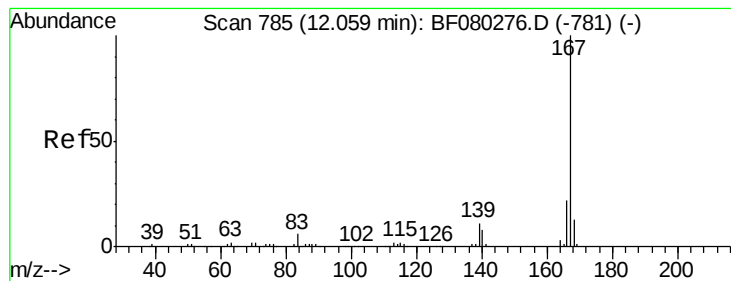
Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Tgt Ion:	178	Resp:	80101
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.2	22.8
179	16.4	12.6	18.8

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.87 ng

RT: 12.06 min Scan# 785

Delta R.T. 0.00 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Instrument :

BNA_F

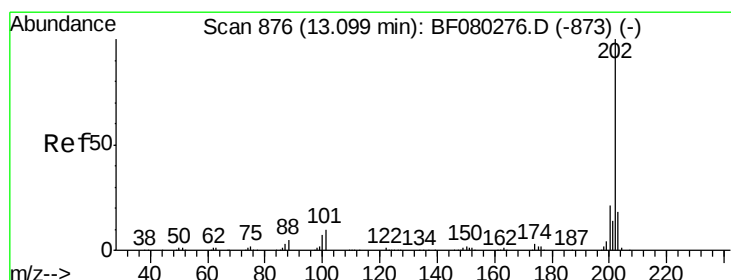
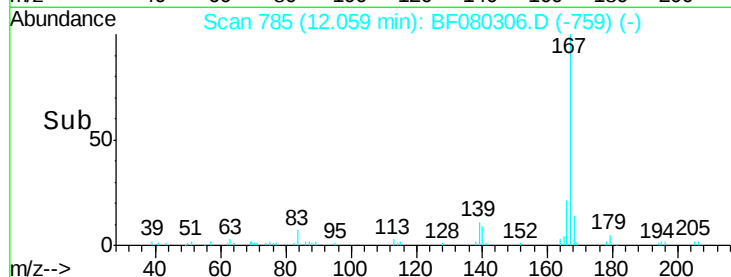
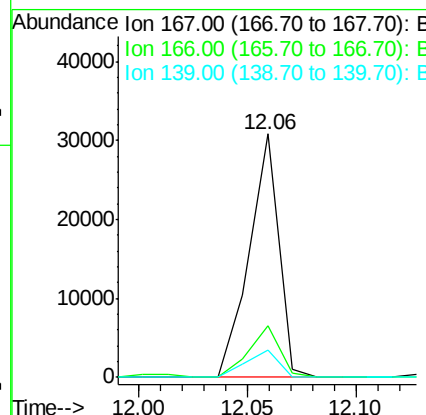
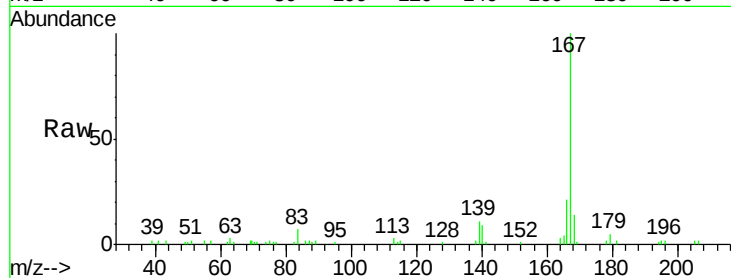
ClientSampleId :

SP-4(0-2)DL

Tgt Ion:	167	Resp:	29099
Ion Ratio	Lower	Upper	
167	100		
166	21.0	17.3	25.9
139	11.4	8.6	13.0

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



#74

Fluoranthene

Concen: 44.53 ng

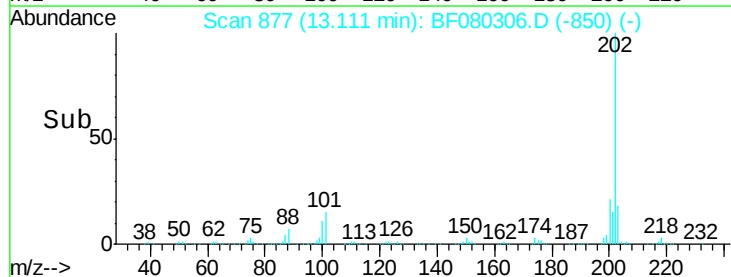
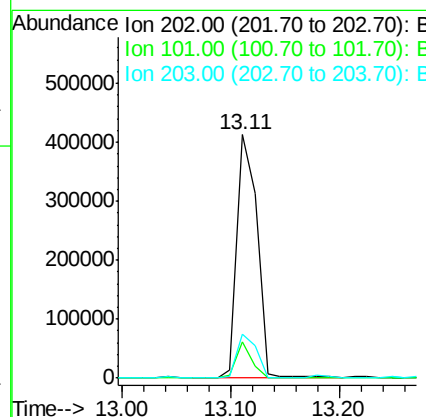
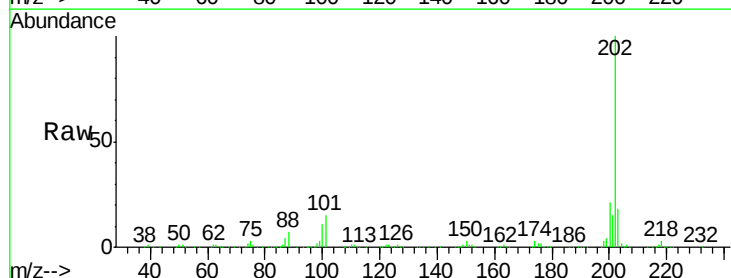
RT: 13.11 min Scan# 877

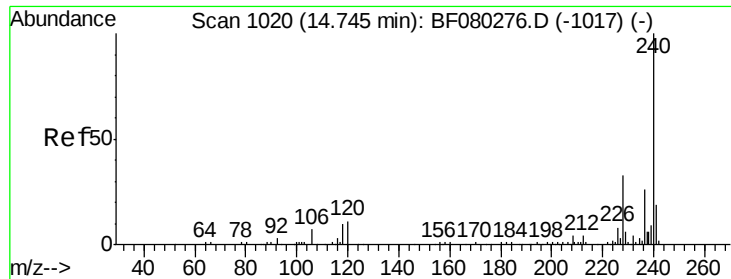
Delta R.T. 0.01 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Tgt Ion:	202	Resp:	519105
Ion Ratio	Lower	Upper	
202	100		
101	15.1	0.0	30.4
203	17.9	0.0	37.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.80 min Scan# 1025

Delta R.T. 0.06 min

Lab File: BF080306.D

Acq: 2 Jul 2015 9:39

Instrument :

BNA_F

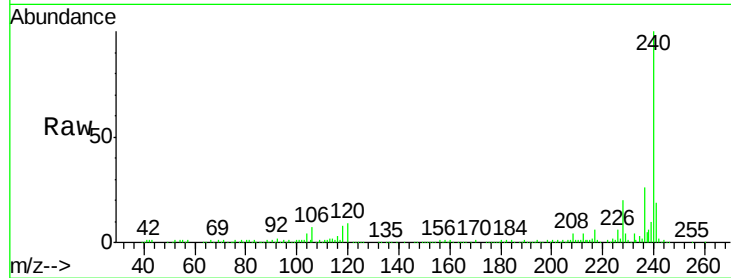
ClientSampleId :

SP-4(0-2)DL

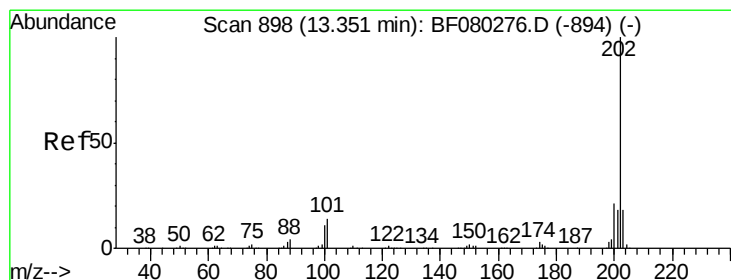
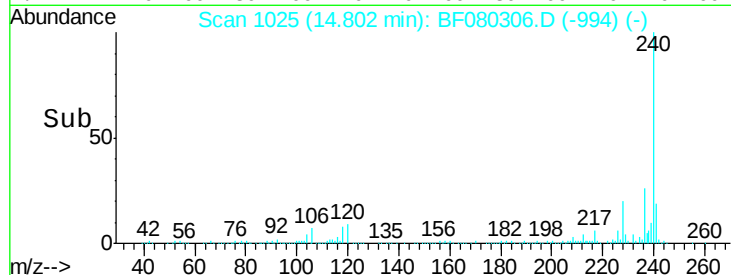
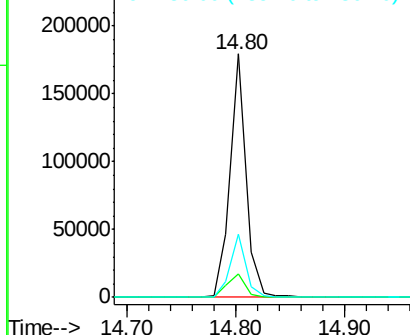
Tgt Ion:	240	Resp:	183410
Ion Ratio	Lower	Upper	
240	100		
120	9.5	8.7	13.1
236	25.7	20.9	31.3

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



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: 47.42 ng

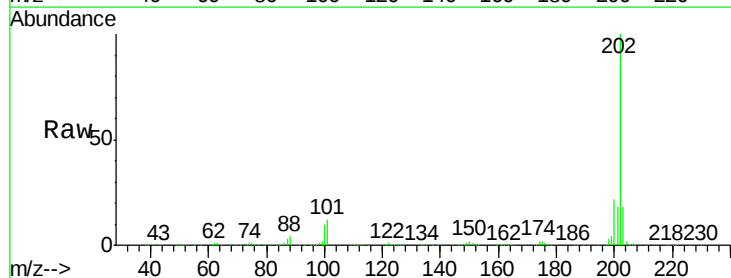
RT: 13.37 min Scan# 900

Delta R.T. 0.02 min

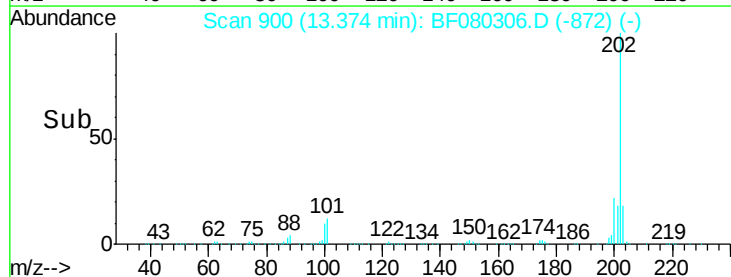
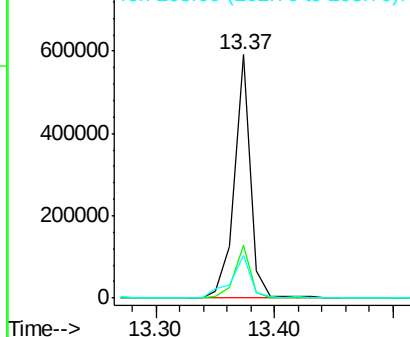
Lab File: BF080306.D

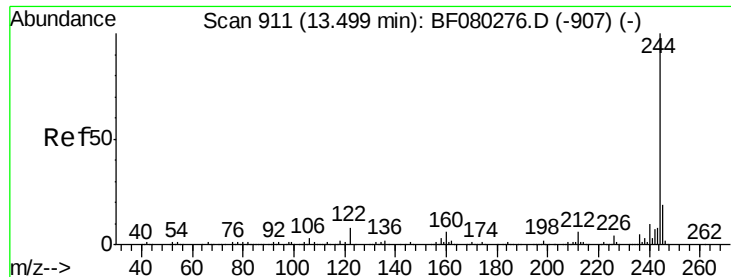
Acq: 2 Jul 2015 9:39

Tgt Ion:	202	Resp:	556668
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.0	25.6
203	17.7	14.0	21.0



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





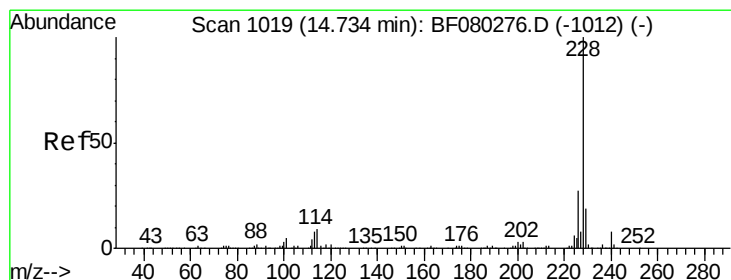
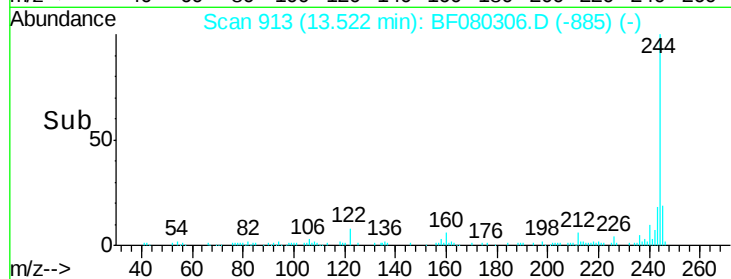
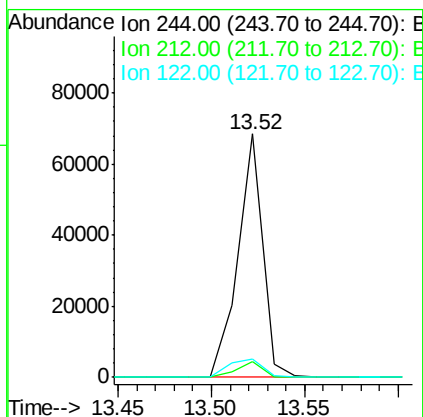
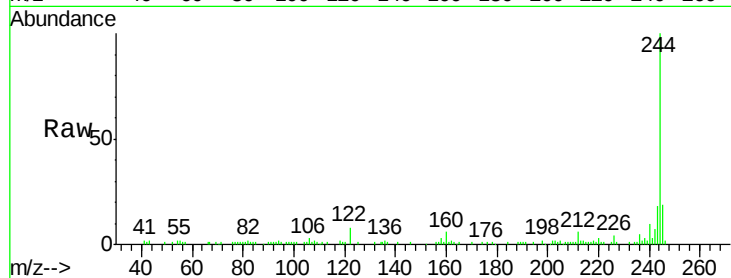
#78
 Terphenyl-d14
 Concen: 8.14 ng
 RT: 13.52 min Scan# 913
 Delta R.T. 0.02 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(0-2)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.3	5.0	7.6
122	7.6	6.6	9.8

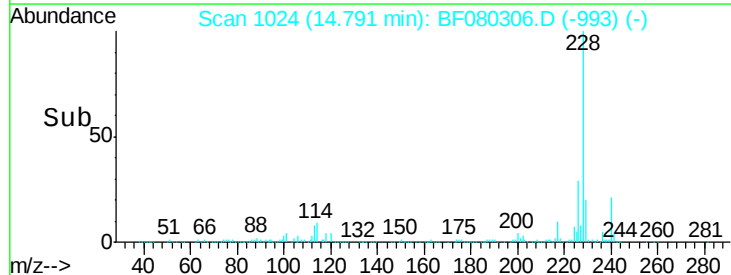
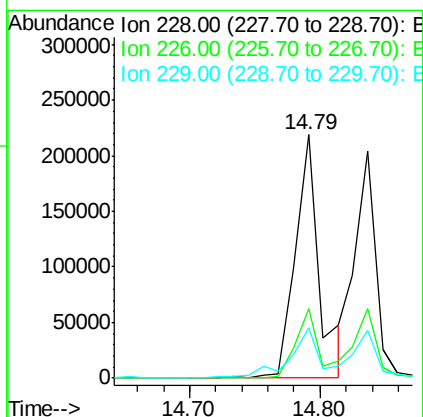
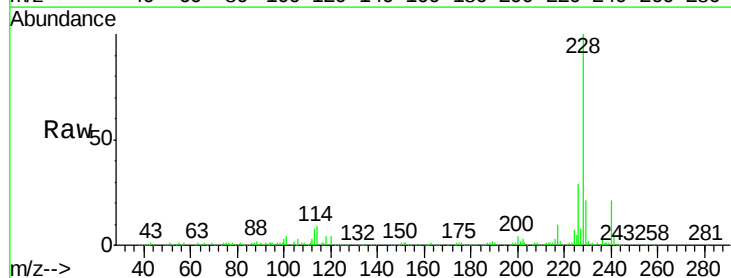
Manual Integrations
 APPROVED

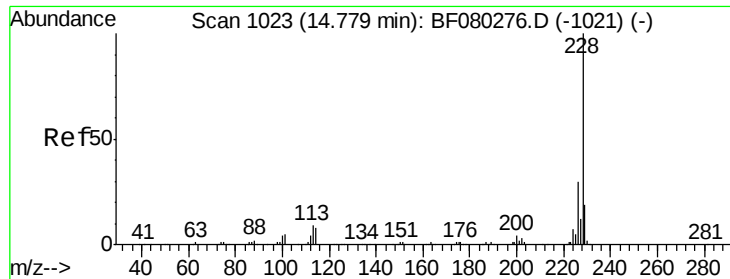
apatel
 7/2/2015 2:40:47 PM



#80
 Benzo(a)anthracene
 Concen: 25.33 ng
 RT: 14.79 min Scan# 1024
 Delta R.T. 0.06 min
 Lab File: BF080306.D
 Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.7	21.7	32.5
229	20.6	15.5	23.3





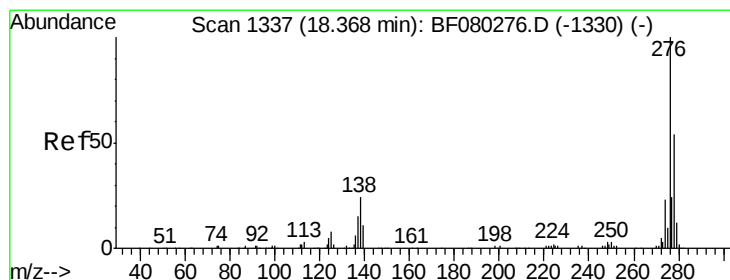
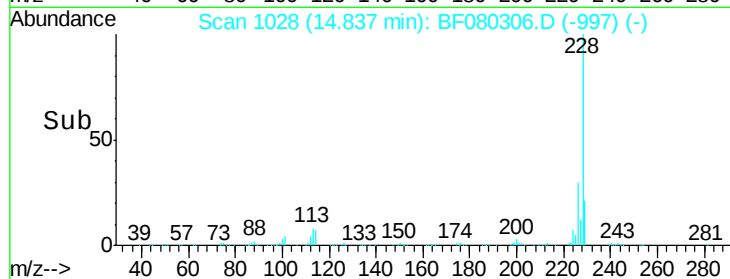
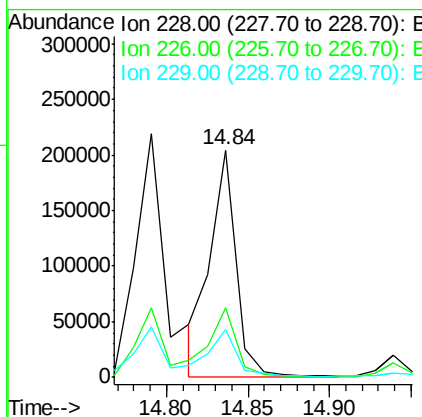
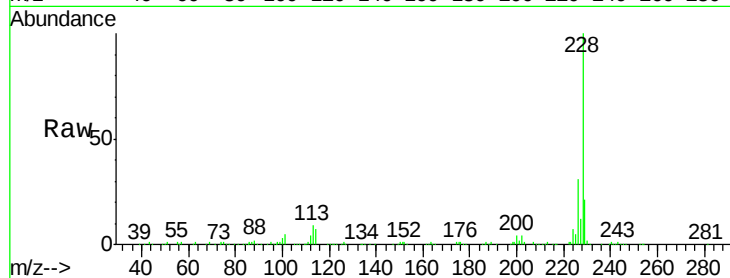
#82
Chrysene
Concen: 22.18 ng
RT: 14.84 min Scan# 1028
Delta R.T. 0.06 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Instrument :
BNA_F
ClientSampled :
SP-4(0-2)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.0	36.0
229	21.0	15.4	23.0

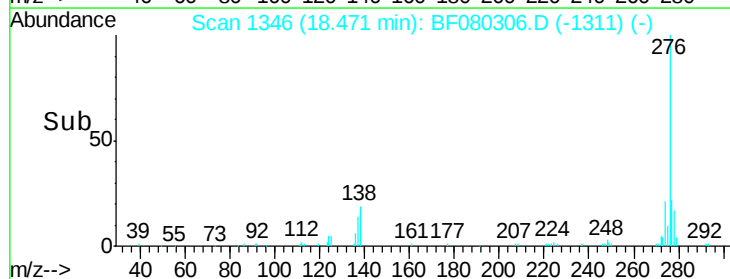
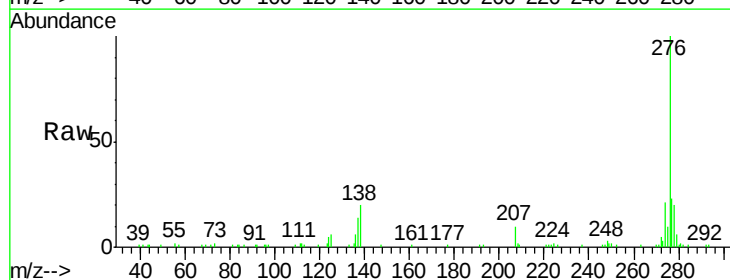
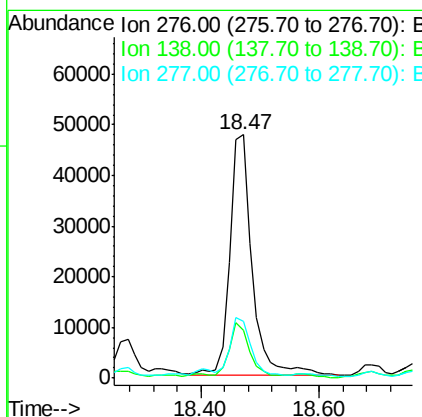
Manual Integrations
APPROVED

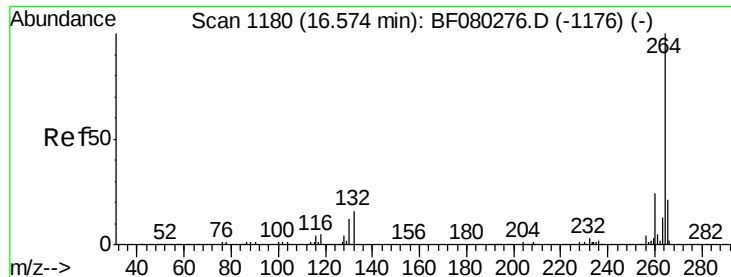
apatel
7/2/2015 2:40:47 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 10.70 ng
RT: 18.47 min Scan# 1346
Delta R.T. 0.10 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.7	21.0	31.6#
277	22.3	19.4	29.0





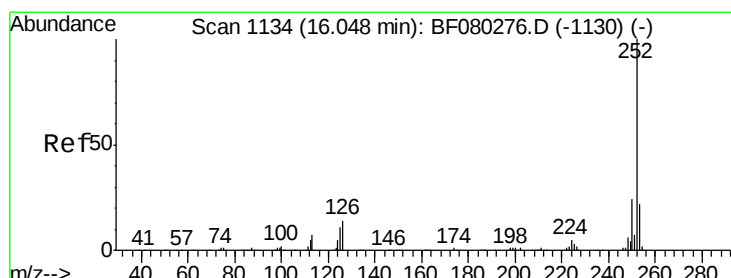
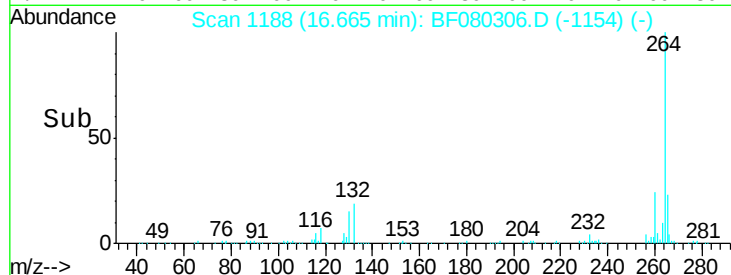
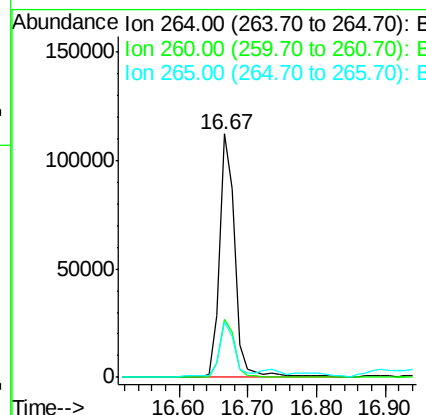
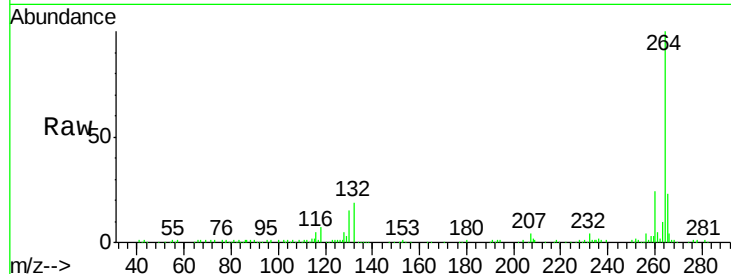
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.67 min Scan# 1188
Delta R.T. 0.09 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Instrument :
BNA_F
ClientSampleId :
SP-4(0-2)DL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	178104		
260	23.9	19.2	28.8	
265	22.6	16.9	25.3	

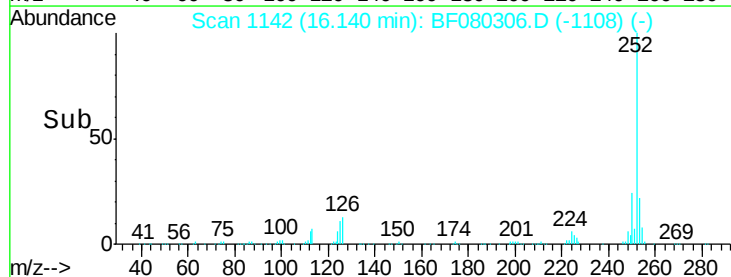
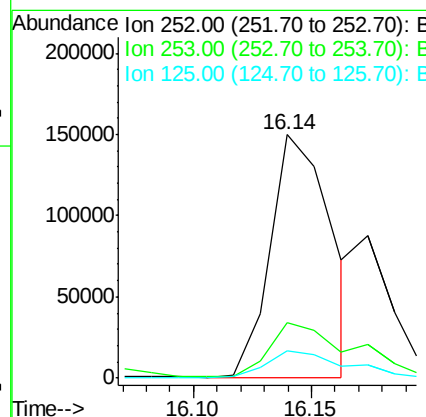
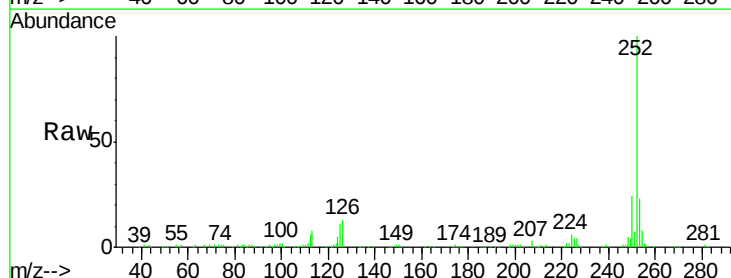
Manual Integrations
APPROVED

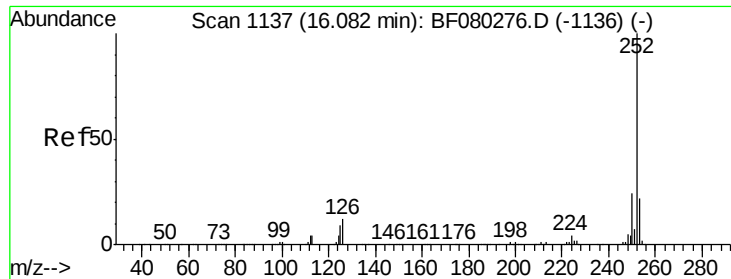
apatel
7/2/2015 2:40:47 PM



#87
Benzo(b)fluoranthene
Concen: 24.00 ng m
RT: 16.14 min Scan# 1142
Delta R.T. 0.09 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	270007		
253	22.5	17.6	26.4	
125	11.1	8.6	12.8	





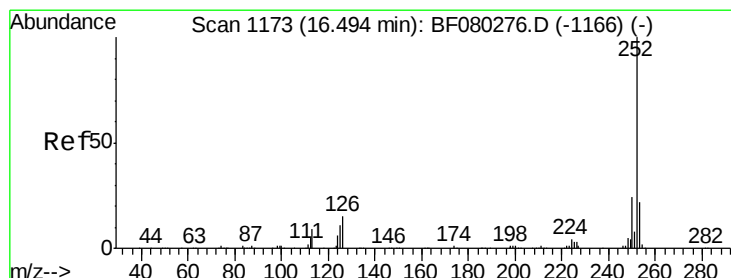
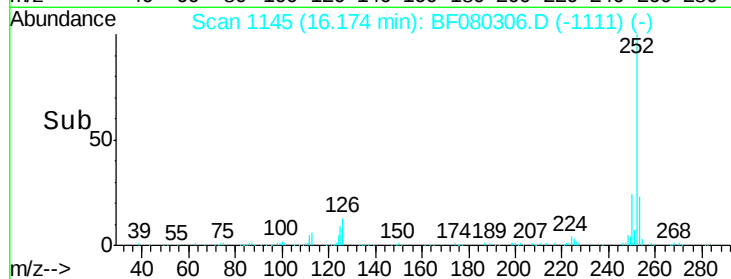
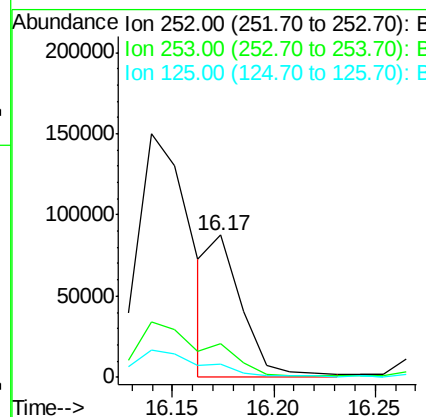
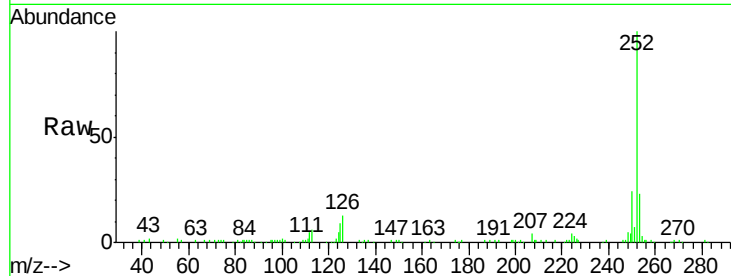
#88
Benzo(k)fluoranthene
Concen: 9.28 ng m
RT: 16.17 min Scan# 1145
Delta R.T. 0.09 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Instrument :
BNA_F
ClientSampleId :
SP-4(0-2)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2
125	9.3	8.4	12.6

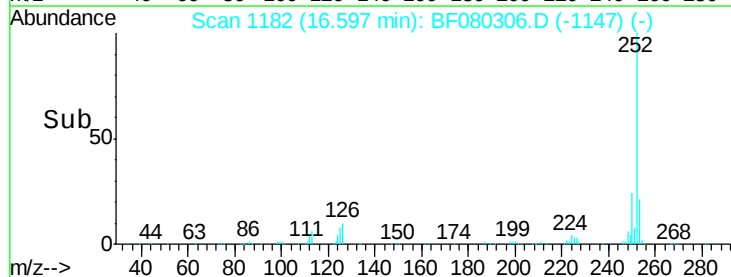
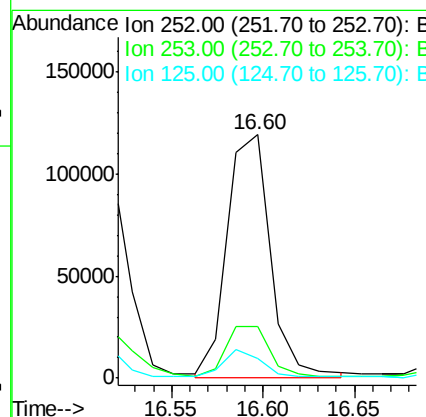
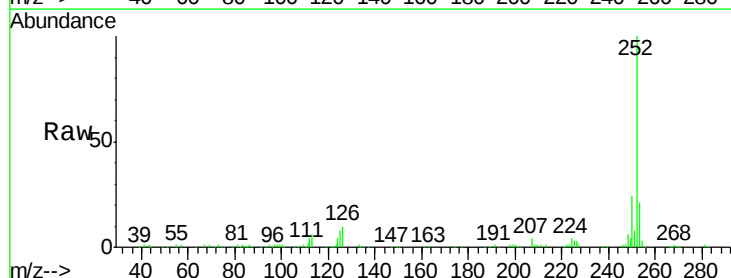
Manual Integrations
APPROVED

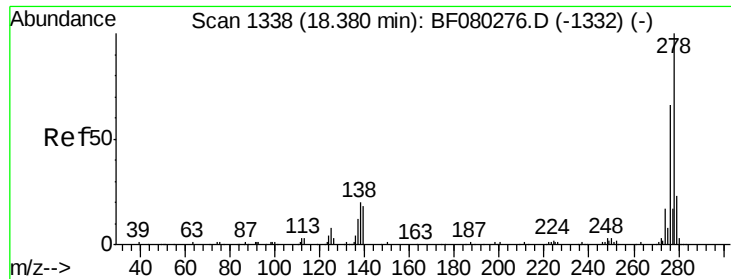
apatel
7/2/2015 2:40:47 PM



#89
Benzo(a)pyrene
Concen: 19.27 ng m
RT: 16.60 min Scan# 1182
Delta R.T. 0.10 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.4	26.2
125	8.1	9.0	13.4#





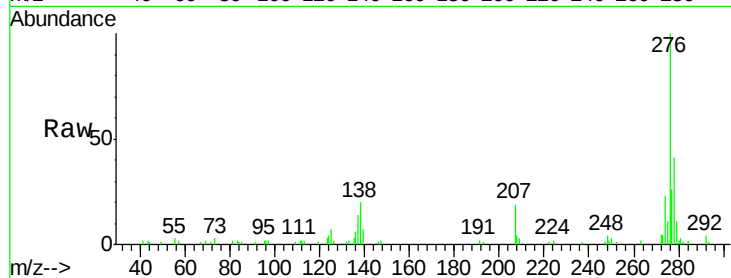
#90
Dibenzo(a,h)anthracene
Concen: 2.86 ng
RT: 18.48 min Scan# 1347
Delta R.T. 0.10 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Instrument :
BNA_F
ClientSampled :
SP-4(0-2)DL

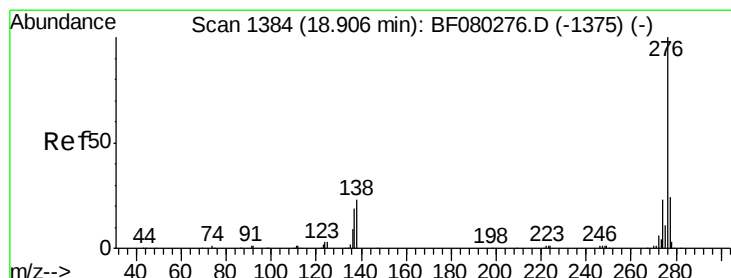
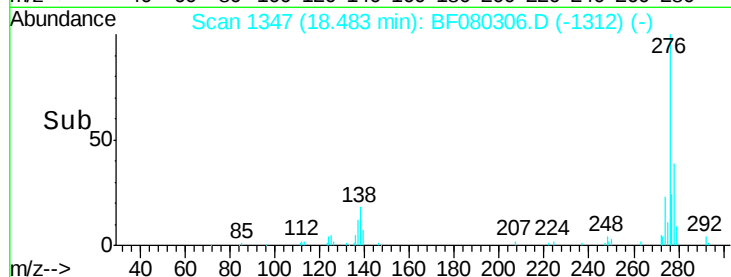
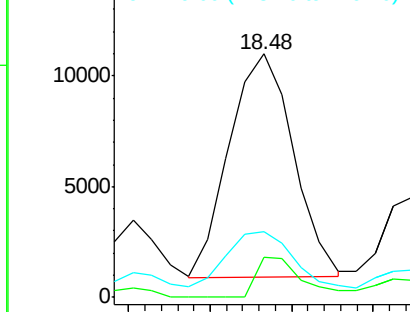
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.3	14.6	21.8
279	27.0	18.7	28.1

Manual Integrations
APPROVED

apatel
7/2/2015 2:40:47 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 12.62 ng
RT: 19.01 min Scan# 1393
Delta R.T. 0.10 min
Lab File: BF080306.D
Acq: 2 Jul 2015 9:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.0	28.6
138	21.1	18.1	27.1

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

