

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031116\
 Data File : BF085404.D
 Acq On : 12 Mar 2016 7:34
 Operator : UM/SJ
 Sample : H1730-04 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 W170TH-SB-18-COMP(0.5-1.5)

Manual Integrations
 APPROVED

UMANGI
 3/14/2016 10:46:09 AM

Quant Time: Mar 14 01:04:00 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 00:54:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	157492	20.00	ng	-0.05
21) Naphthalene-d8	8.22	136	596808	20.00	ng	-0.05
38) Acenaphthene-d10	9.98	164	255517	20.00	ng	-0.05
63) Phenanthrene-d10	11.46	188	390697	20.00	ng	-0.05
75) Chrysene-d12	14.11	240	299341	20.00	ng	-0.05
86) Perylene-d12	15.57	264	241663	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	327384	34.87	ng	-0.06
7) Phenol-d6	6.55	99	391589	31.83	ng	-0.06
23) Nitrobenzene-d5	7.50	82	238840	21.42	ng	-0.05
41) 2,4,6-Tribromophenol	10.77	330	62984	28.81	ng	-0.05
44) 2-Fluorobiphenyl	9.29	172	384839	22.91	ng	-0.06
78) Terphenyl-d14	13.05	244	222985	17.29	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.69	163	65034	3.32	ng	99
70) Phenanthrene	11.49	178	130658	6.38	ng	97
74) Fluoranthene	12.68	202	209475	10.19	ng	99
77) Pyrene	12.91	202	184786	8.20	ng	98
80) Benzo(a)anthracene	14.09	228	115559	6.45	ng	98
82) Chrysene	14.13	228	76217	4.60	ng	96
85) Indeno(1,2,3-cd)pyrene	17.03	276	35501	2.75	ng	91
87) Benzo(b)fluoranthene	15.15	252	96679m	6.00	ng	
88) Benzo(k)fluoranthene	15.16	252	39717m	3.06	ng	
89) Benzo(a)pyrene	15.51	252	72368	5.42	ng	97
91) Benzo(g,h,i)perylene	17.47	276	31908	2.79	ng	94

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

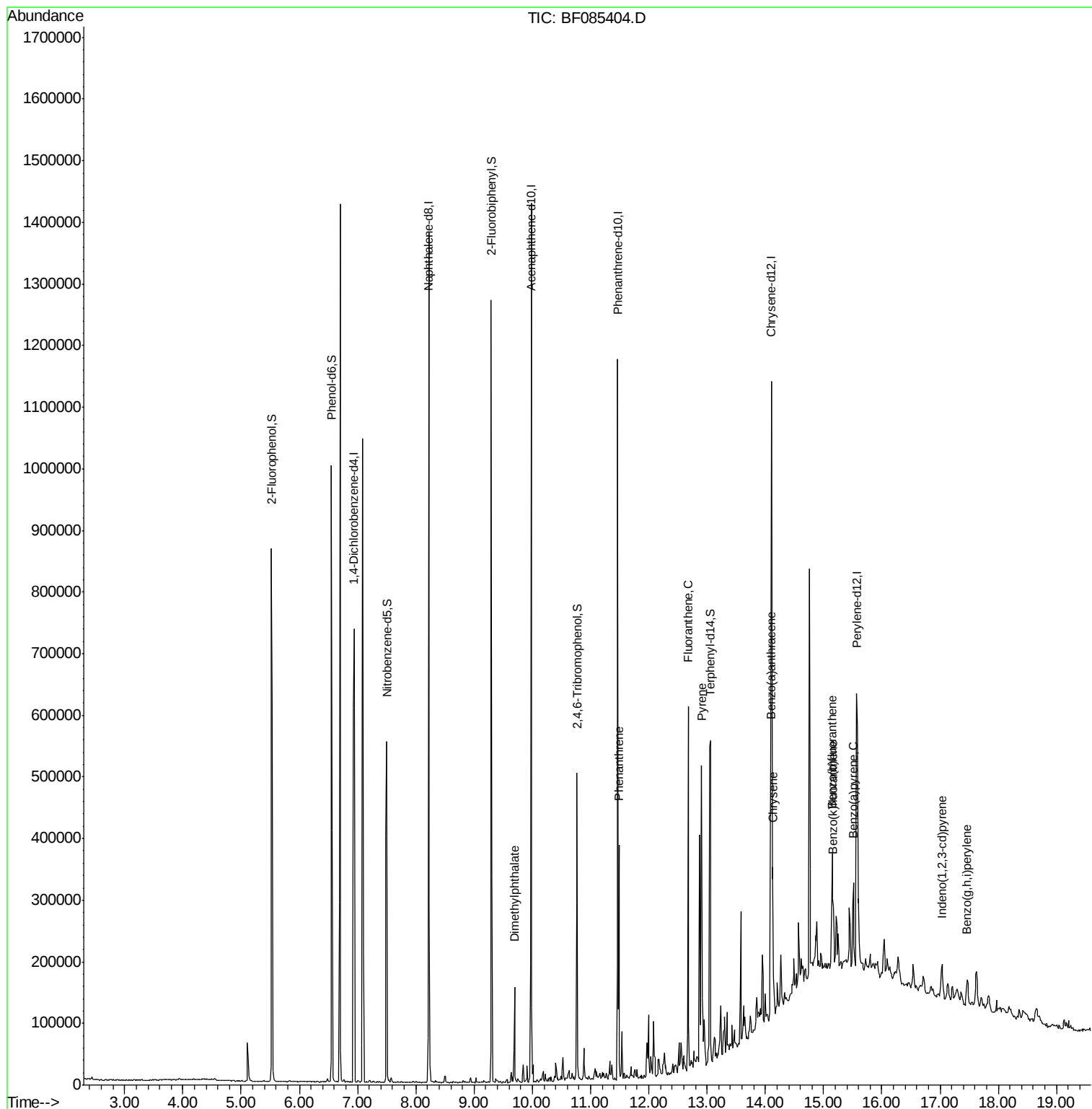
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031116\
Data File : BF085404.D
Acq On : 12 Mar 2016 7:34
Operator : UM/SJ
Sample : H1730-04 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

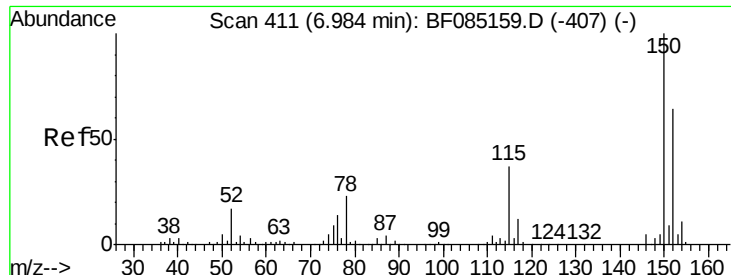
Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM

Quant Time: Mar 14 01:04:00 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 04 00:54:58 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.94 min Scan# 407

Delta R.T. -0.05 min

Lab File: BF085404.D

Acq: 12 Mar 2016 7:34

Instrument :

BNA_F

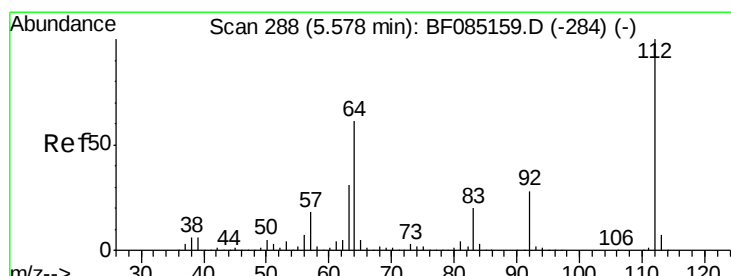
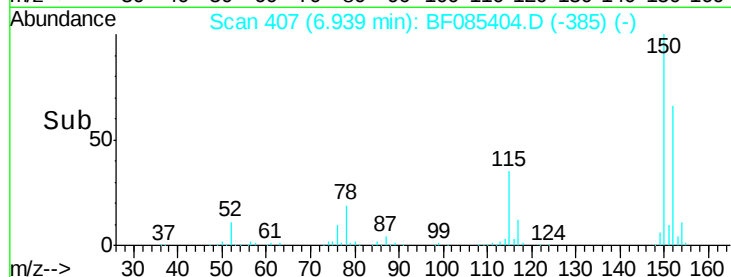
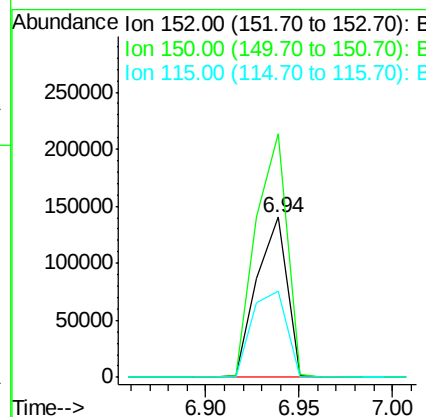
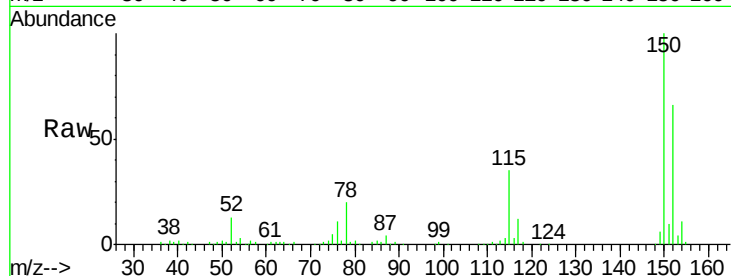
ClientSampleId :

W170TH-SB-18-COMP(0.5-1.5)

Tgt	Ion	Resp	Lower	Upper
152	100			
150	152.1	124.6	186.8	
115	53.7	46.6	70.0	

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM



#5

2-Fluorophenol

Concen: 34.87 ng

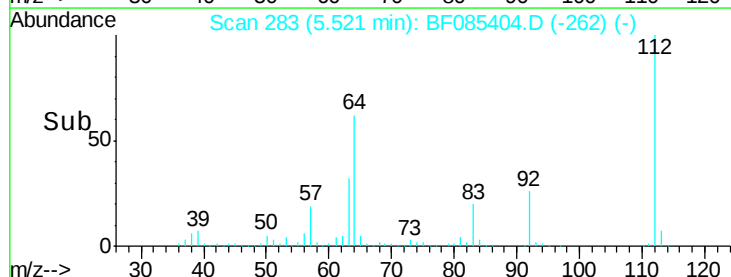
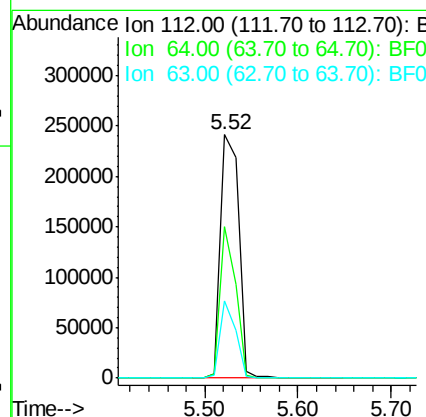
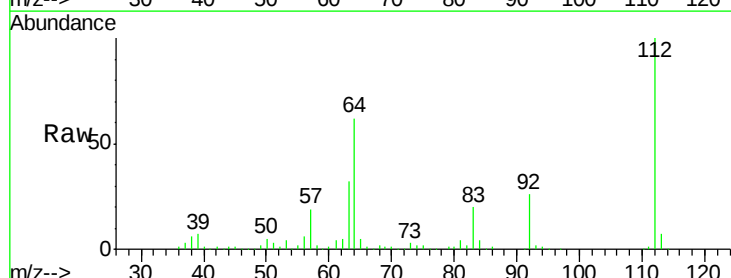
RT: 5.52 min Scan# 283

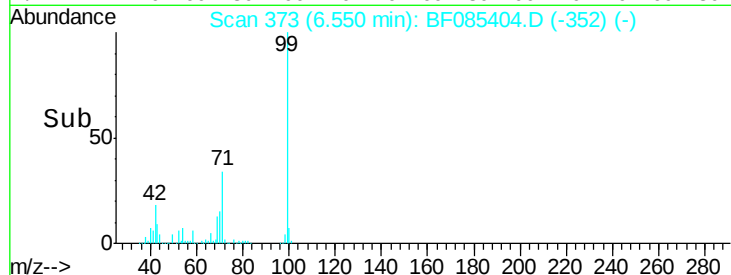
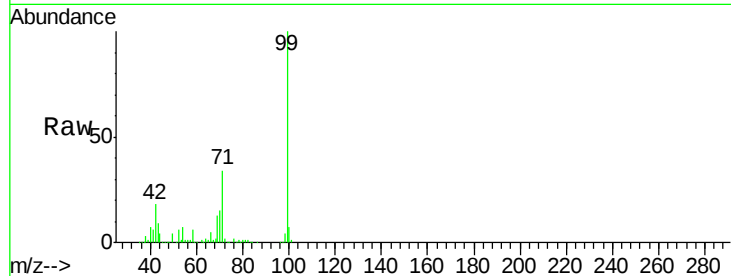
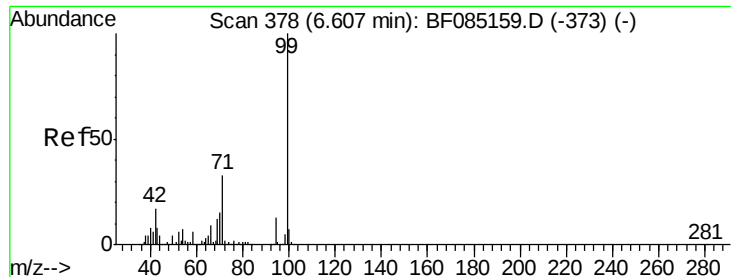
Delta R.T. -0.06 min

Lab File: BF085404.D

Acq: 12 Mar 2016 7:34

Tgt	Ion	Resp	Lower	Upper
112	100			
64	62.1	49.0	73.4	
63	32.0	24.8	37.2	





#7

Phenol-d6

Concen: 31.83 ng

RT: 6.55 min Scan# 373

Delta R.T. -0.06 min

Lab File: BF085404.D

Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	391589		
42	17.8	13.6	20.4	
71	33.7	26.7	40.1	

Instrument :

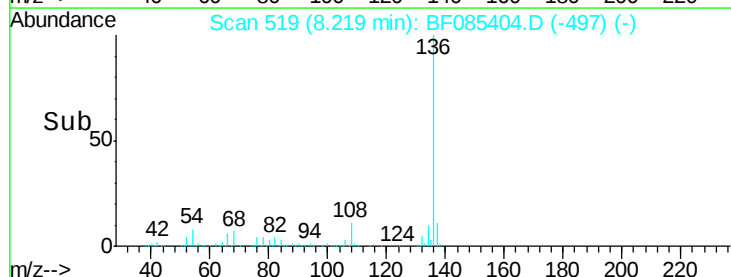
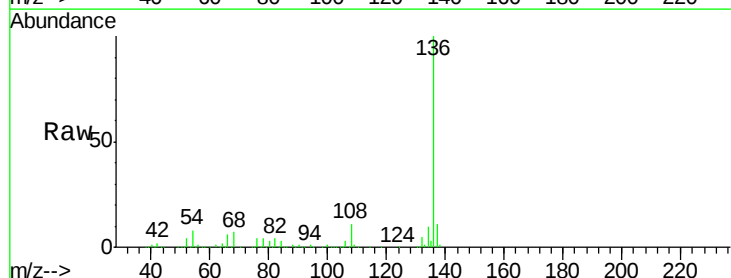
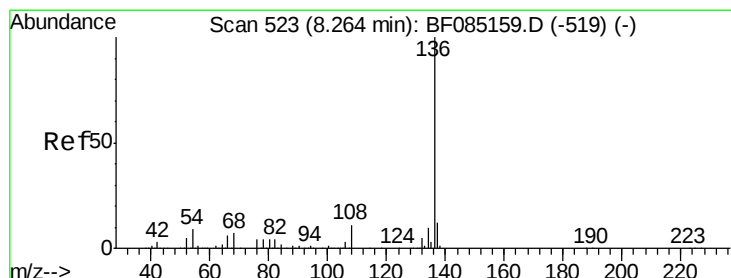
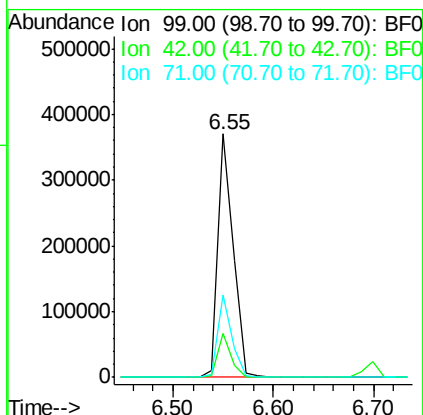
BNA_F

ClientSampleId :

W170TH-SB-18-COMP(0.5-1.5)

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM



#21

Naphthalene-d8

Concen: 20.00 ng

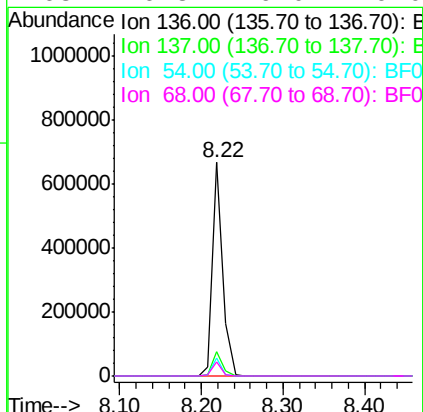
RT: 8.22 min Scan# 519

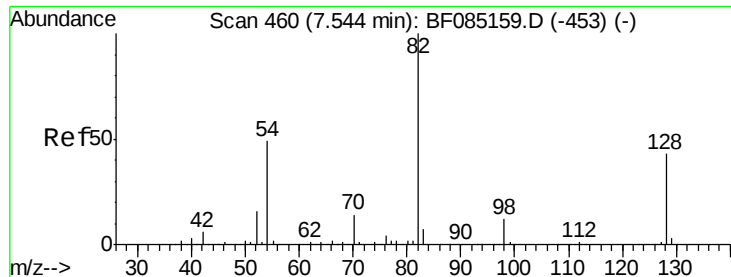
Delta R.T. -0.05 min

Lab File: BF085404.D

Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	596808		
137	11.2	9.3	13.9	
54	8.3	7.4	11.2	
68	6.8	6.0	9.0	





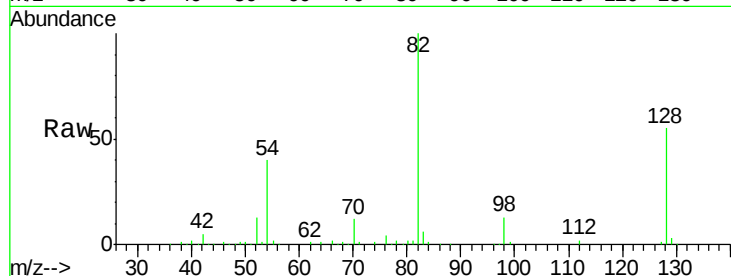
#23
 Nitrobenzene-d5
 Concen: 21.42 ng
 RT: 7.50 min Scan# 456
 Delta R.T. -0.05 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Instrument :
 BNA_F
 ClientSampleId :
 W170TH-SB-18-COMP(0.5-1.5)

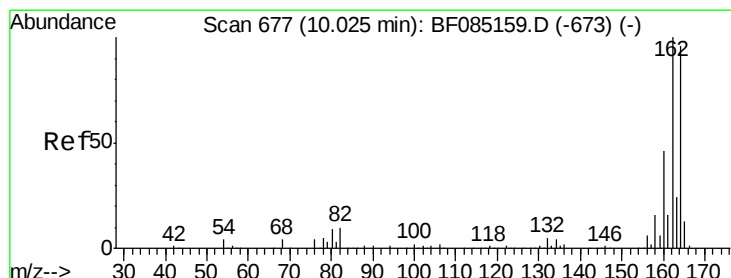
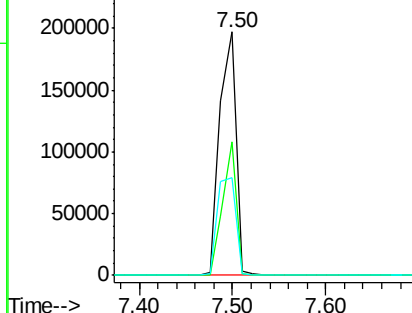
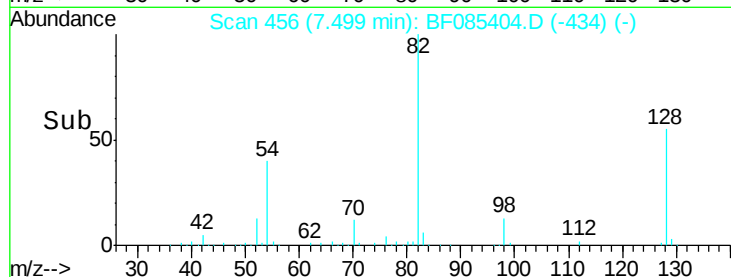
Tgt Ion	Ratio	Lower	Upper
82	100		
128	54.6	34.5	51.7#
54	40.4	39.3	58.9

Manual Integrations
 APPROVED

UMANGI
 3/14/2016 10:46:09 AM

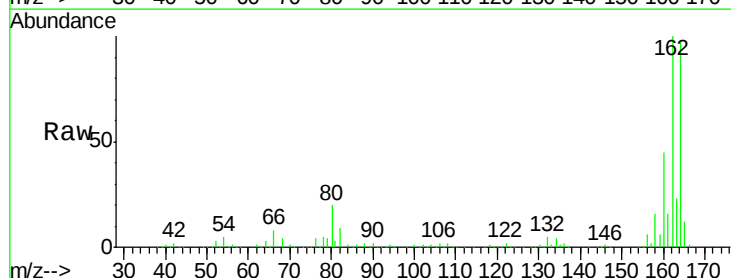


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

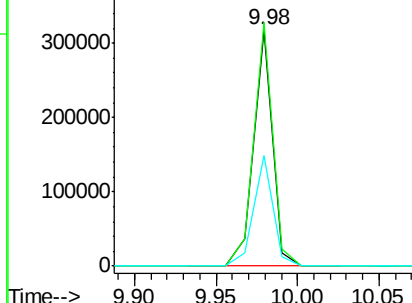
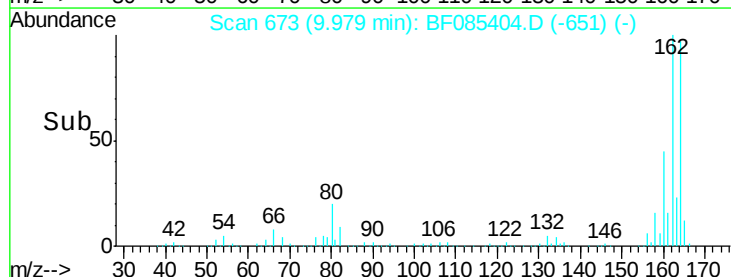


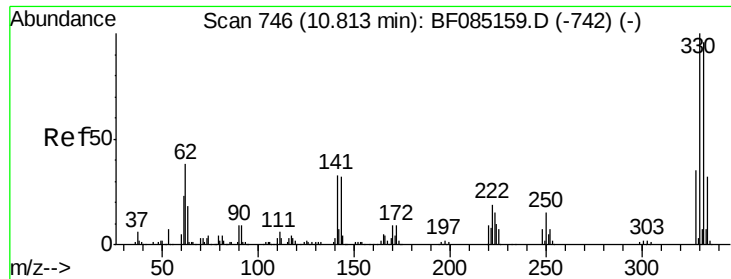
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.98 min Scan# 673
 Delta R.T. -0.05 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.3	124.9
160	46.9	37.9	56.9



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





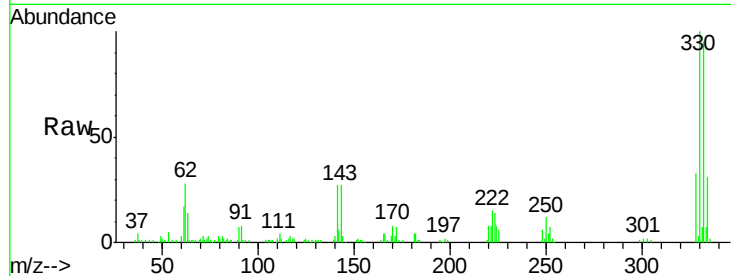
#41
 2,4,6-Tribromophenol
 Concen: 28.81 ng
 RT: 10.77 min Scan# 742
 Delta R.T. -0.05 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Instrument :
 BNA_F
 ClientSampleId :
 W170TH-SB-18-COMP(0.5-1.5)

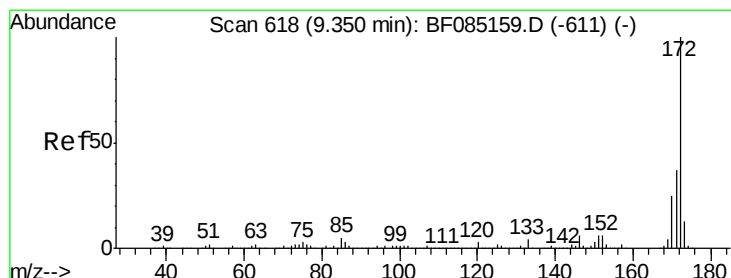
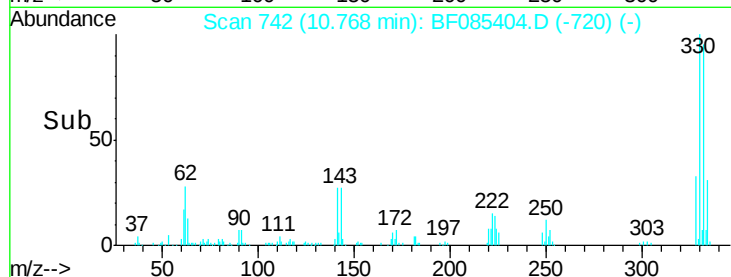
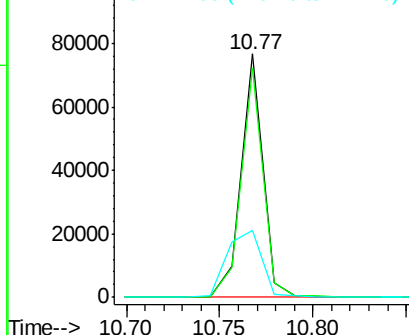
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	62984		
332	94.9	77.1	115.7	
141	43.6	35.0	52.6	

Manual Integrations
 APPROVED

UMANGI
 3/14/2016 10:46:09 AM

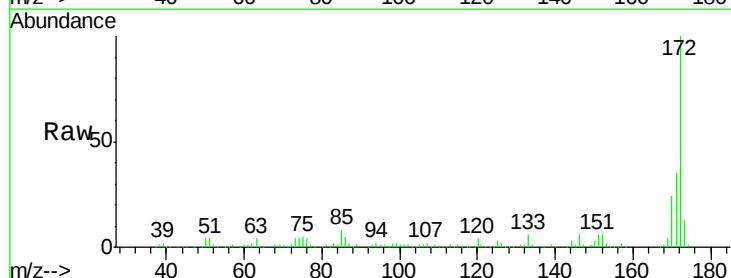


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

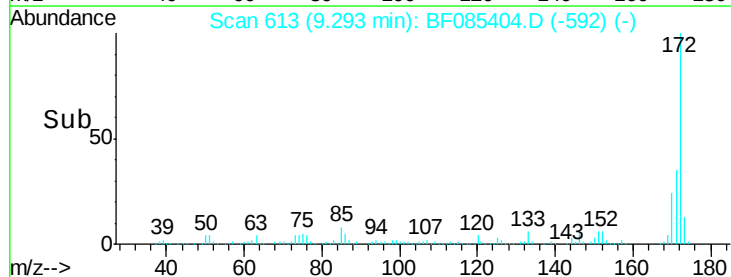
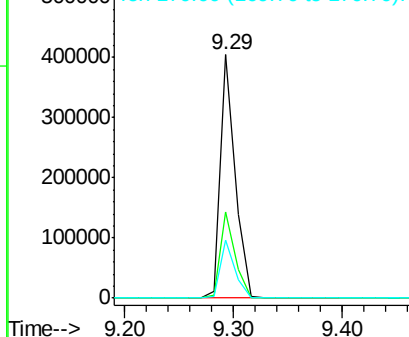


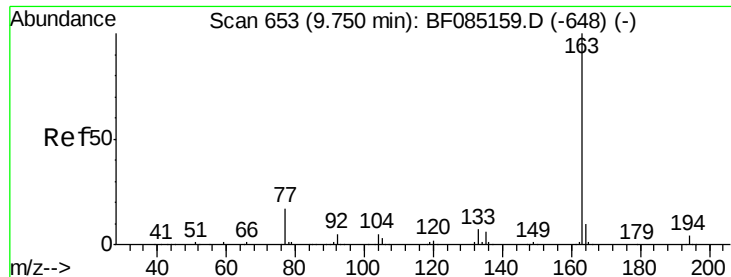
#44
 2-Fluorobiphenyl
 Concen: 22.91 ng
 RT: 9.29 min Scan# 613
 Delta R.T. -0.06 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	384839		
171	35.1	29.3	43.9	
170	23.8	20.0	30.0	



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





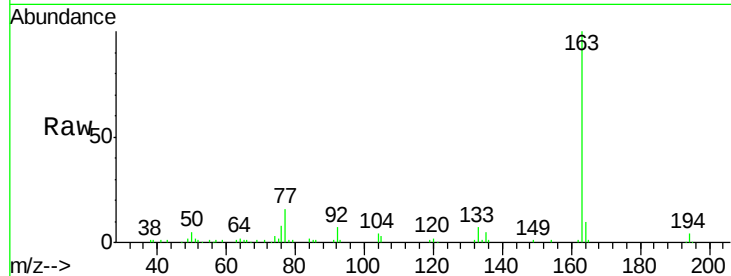
#49
Dimethylphthalate
Concen: 3.32 ng
RT: 9.69 min Scan# 648
Delta R.T. -0.06 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	65034		
194	3.5		3.1	4.7
164	9.7		8.2	12.4

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM

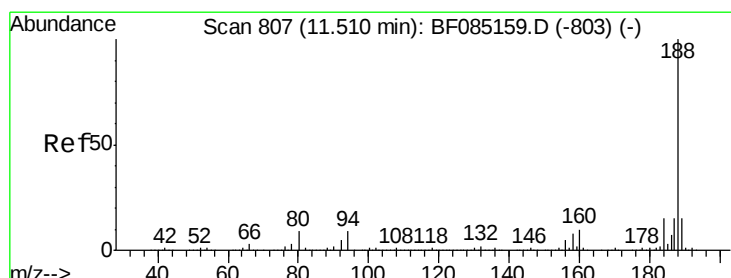
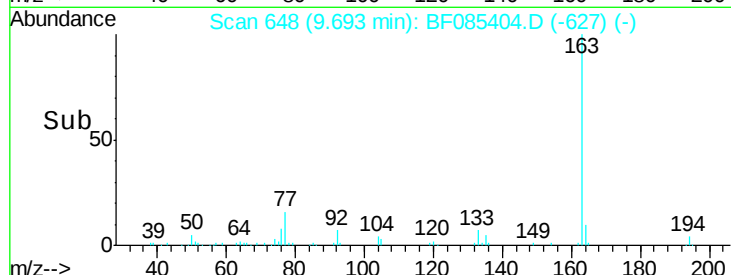
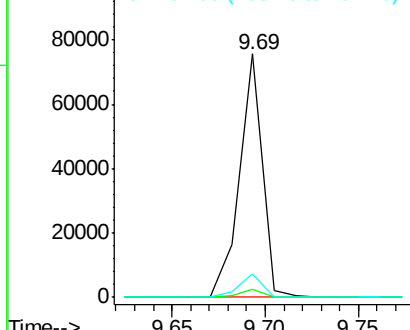


Abundance

Ion 163.00 (162.70 to 163.70): E

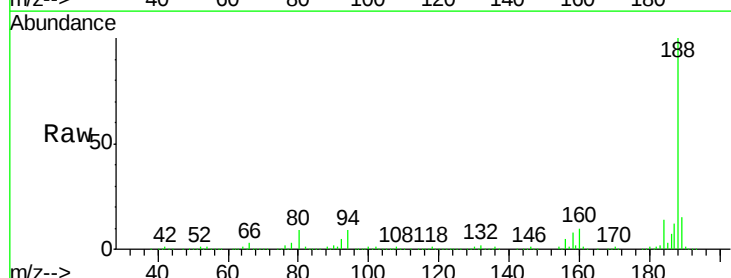
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.46 min Scan# 803
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	390697		
94	9.0		7.0	10.6
80	9.3		7.4	11.0

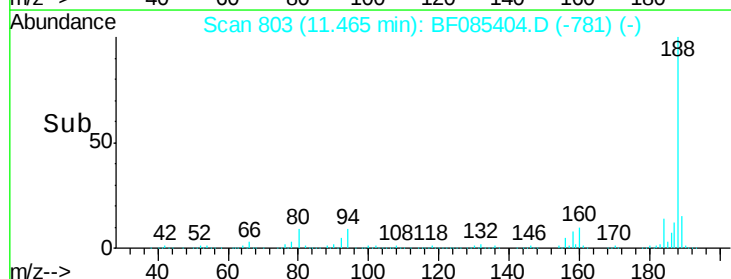
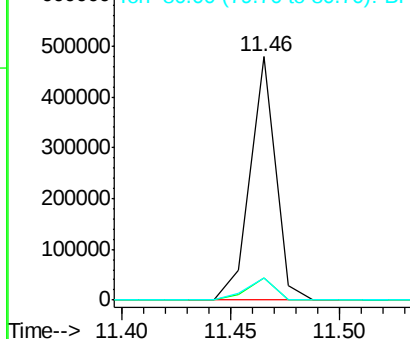


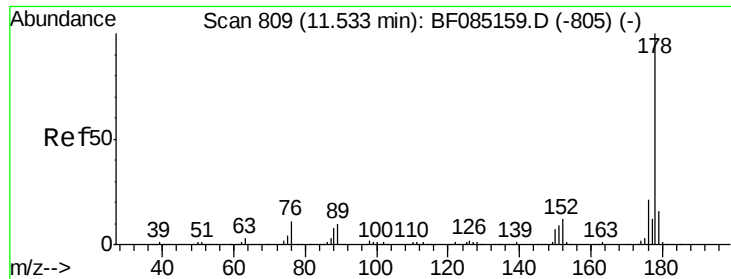
Abundance

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





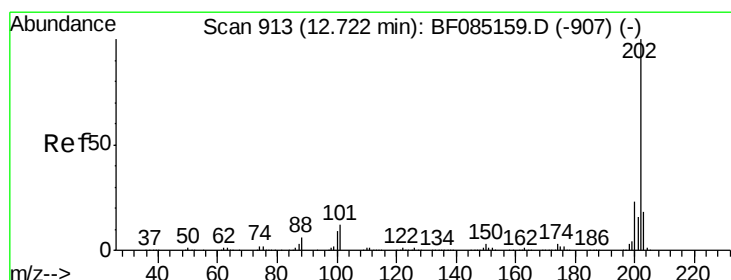
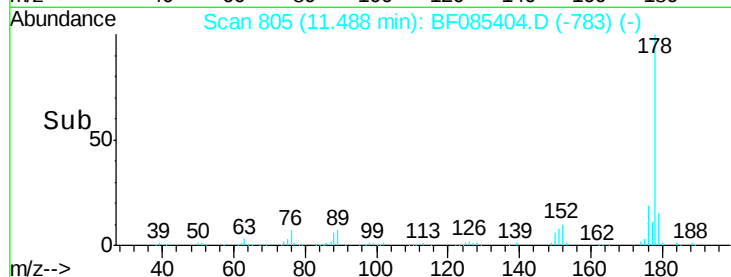
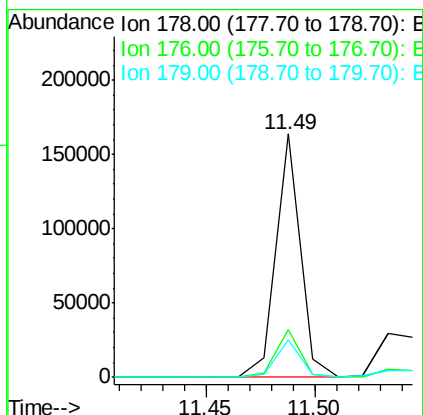
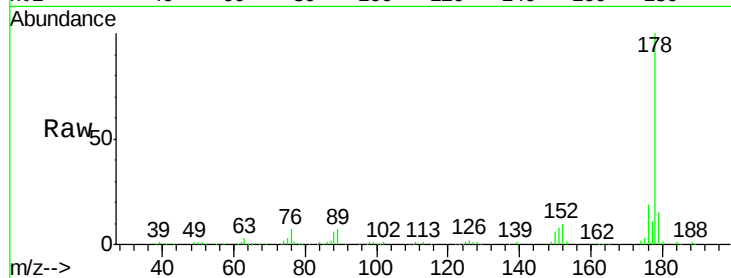
#70
Phenanthrene
Concen: 6.38 ng
RT: 11.49 min Scan# 805
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	130658		
176	19.4	16.8	25.2	
179	15.2	13.1	19.7	

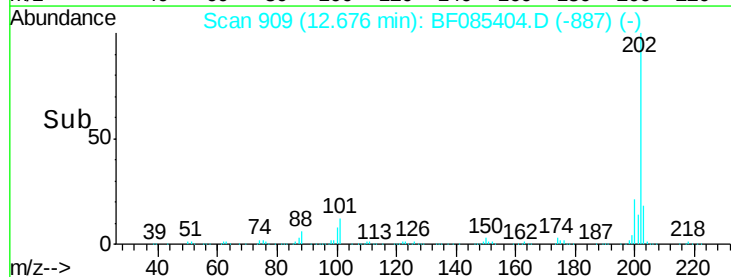
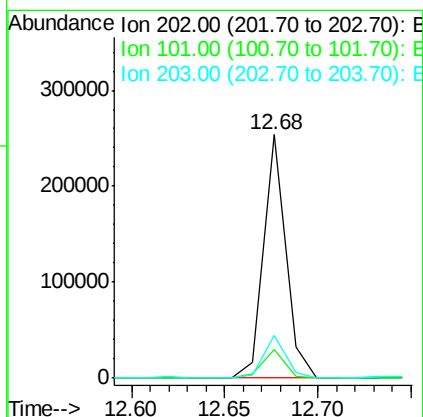
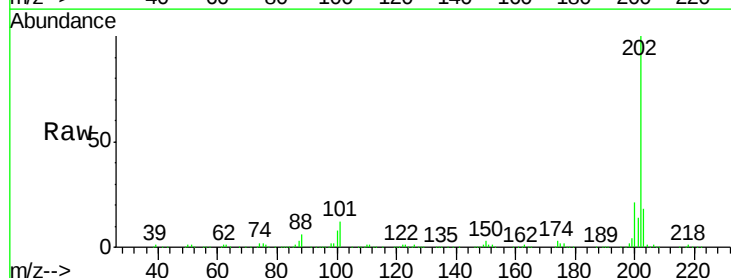
Manual Integrations
APPROVED

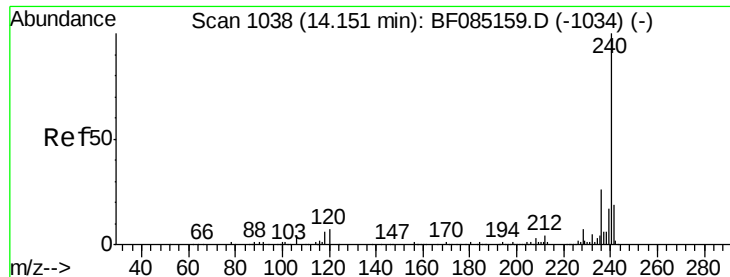
UMANGI
3/14/2016 10:46:09 AM



#74
Fluoranthene
Concen: 10.19 ng
RT: 12.68 min Scan# 909
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	209475		
101	11.7	0.0	31.8	
203	17.6	0.0	38.4	





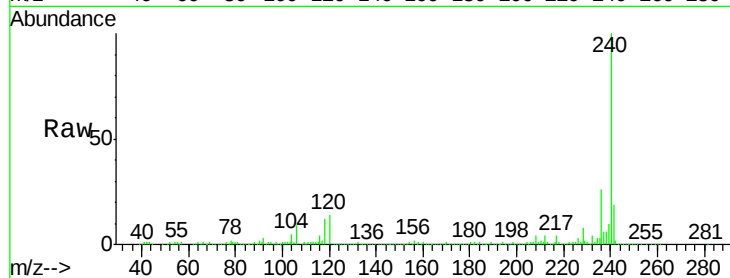
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.11 min Scan# 1034
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

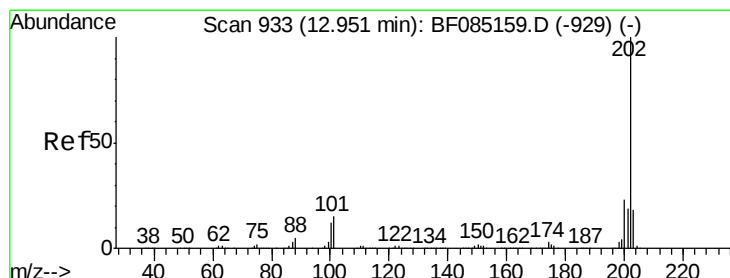
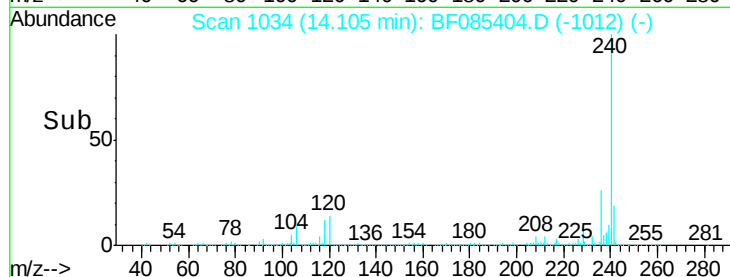
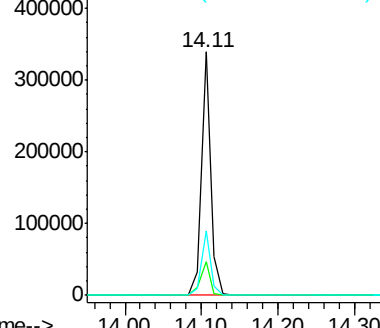
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	299341		
120	14.0	5.3	7.9#	
236	26.5	20.7	31.1	

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM

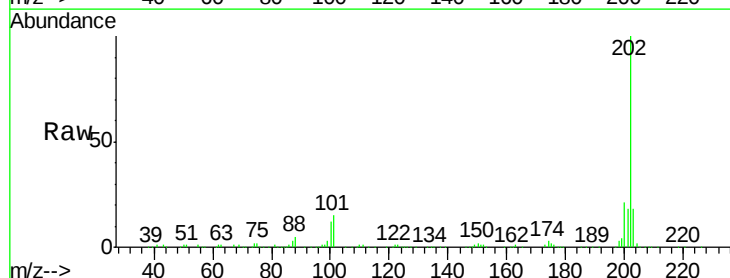


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

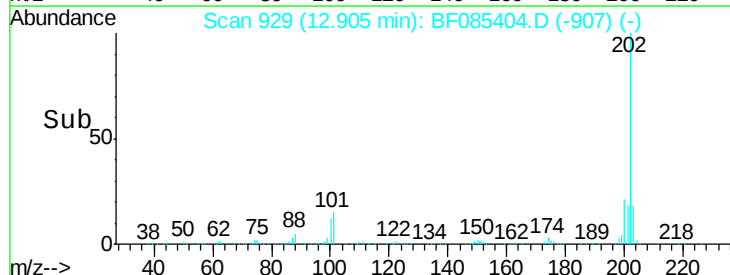
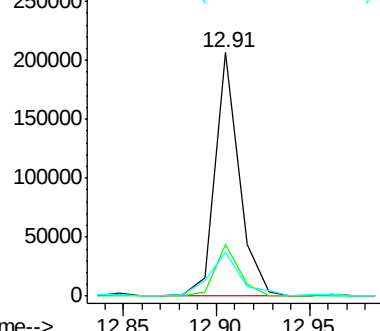


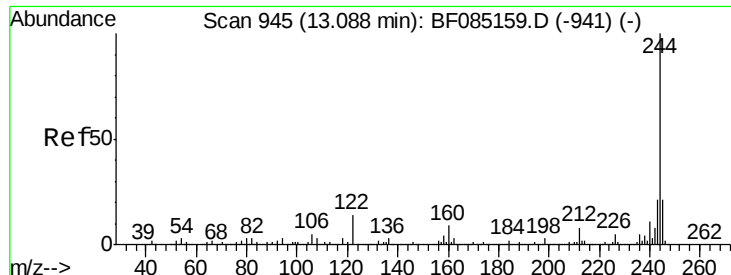
#77
Pyrene
Concen: 8.20 ng
RT: 12.91 min Scan# 929
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	184786		
200	21.3	18.2	27.4	
203	18.1	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





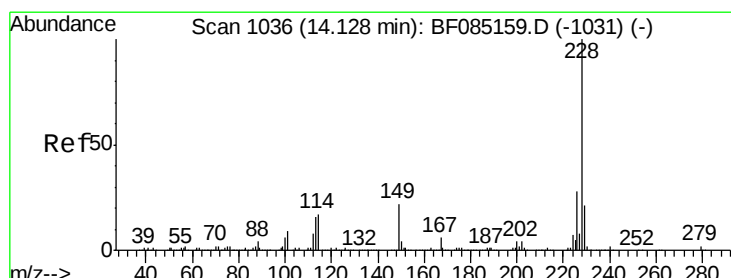
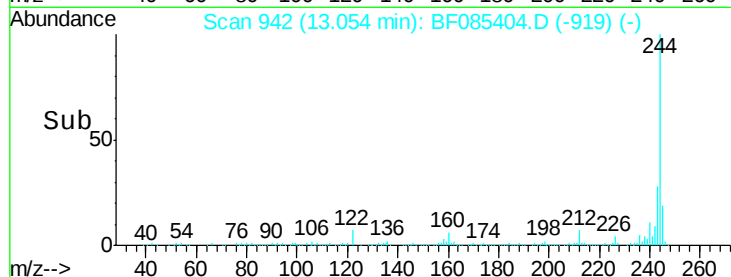
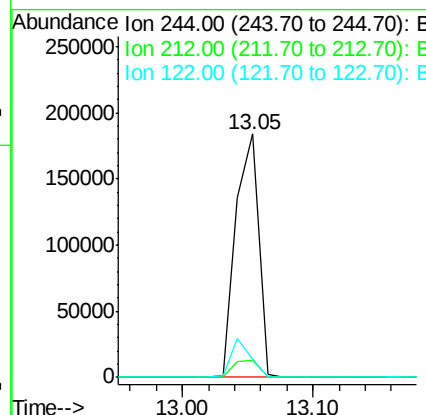
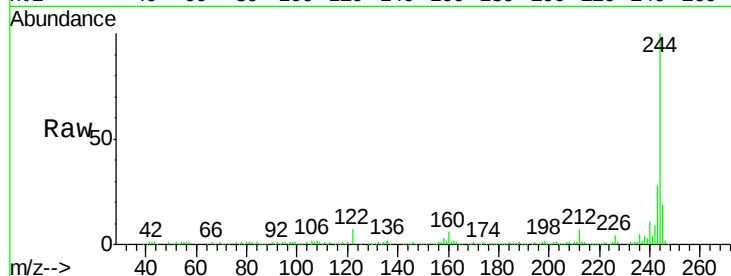
#78
 Terphenyl-d14
 Concen: 17.29 ng
 RT: 13.05 min Scan# 942
 Delta R.T. -0.03 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Instrument :
 BNA_F
 ClientSampleId :
 W170TH-SB-18-COMP(0.5-1.5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.8	6.4	9.6
122	7.3	11.4	17.2#

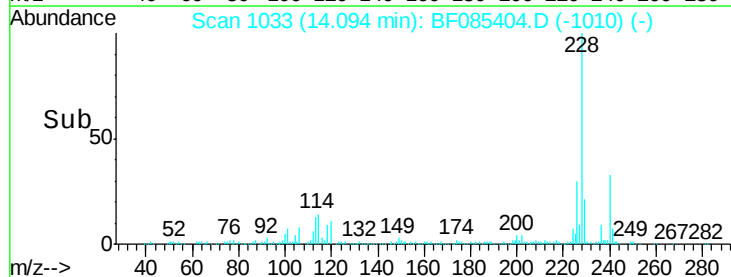
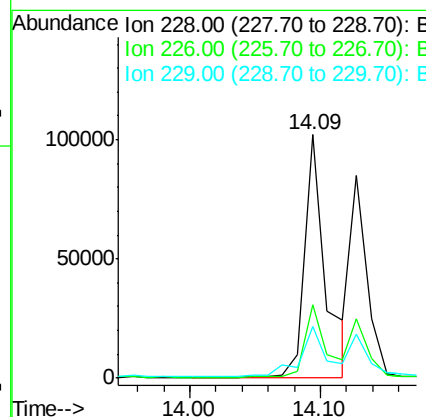
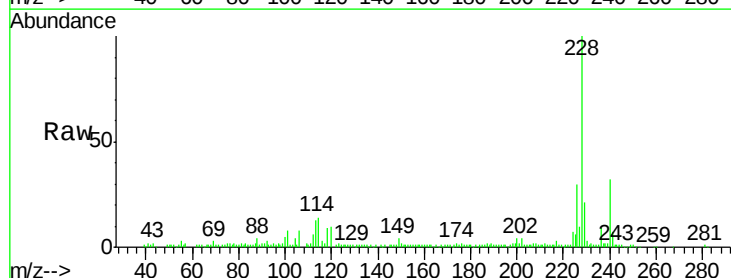
Manual Integrations
 APPROVED

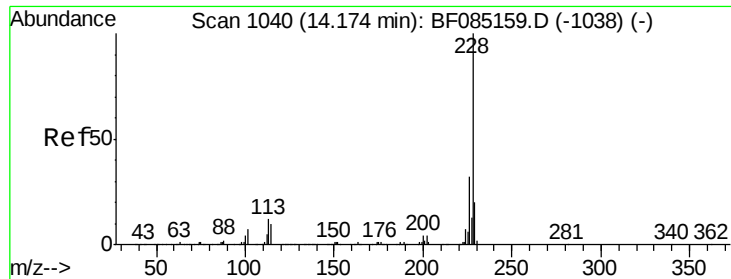
UMANGI
 3/14/2016 10:46:09 AM



#80
 Benzo(a)anthracene
 Concen: 6.45 ng
 RT: 14.09 min Scan# 1033
 Delta R.T. -0.03 min
 Lab File: BF085404.D
 Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.4	22.8	34.2
229	21.1	16.6	24.8





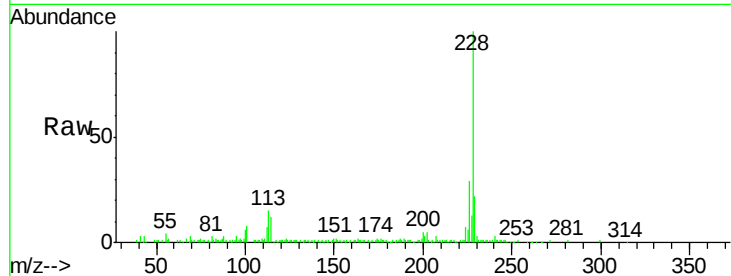
#82
Chrysene
Concen: 4.60 ng
RT: 14.13 min Scan# 1036
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

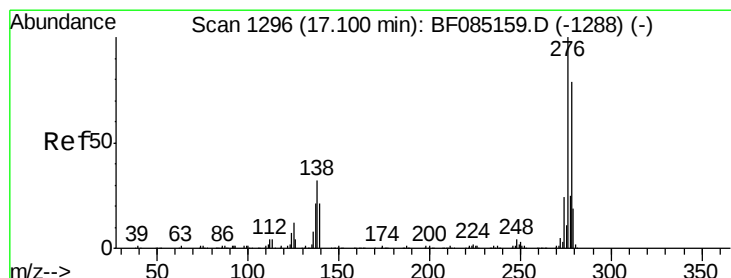
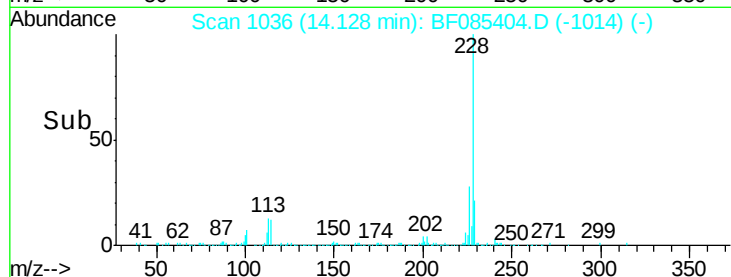
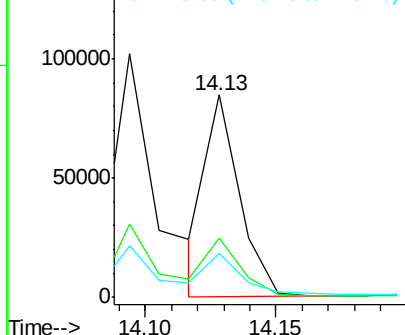
Tgt Ion	Ratio	Resp	Lower	Upper
228	100	76217		
226	29.4	25.2	37.8	
229	21.8	16.0	24.0	

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM



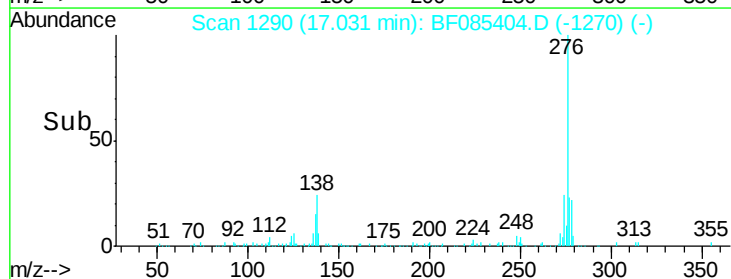
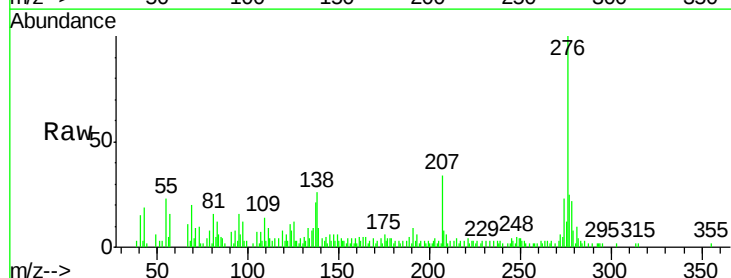
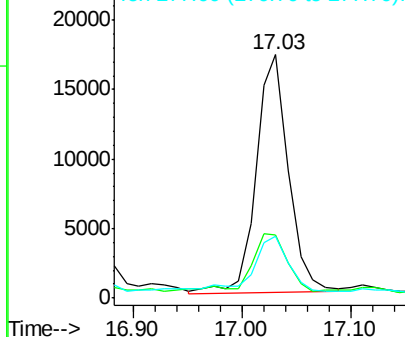
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

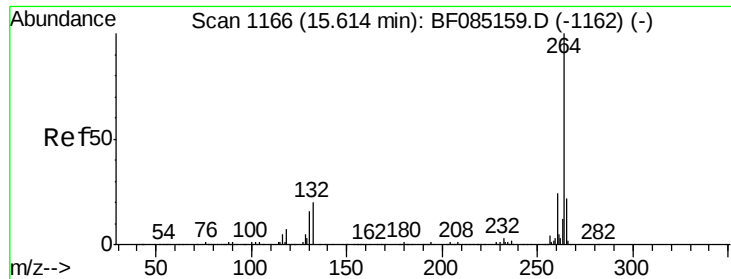


#85
Indeno(1,2,3-cd)pyrene
Concen: 2.75 ng
RT: 17.03 min Scan# 1290
Delta R.T. -0.07 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	35501		
138	26.4	26.4	39.6	
277	27.5	20.2	30.2	

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





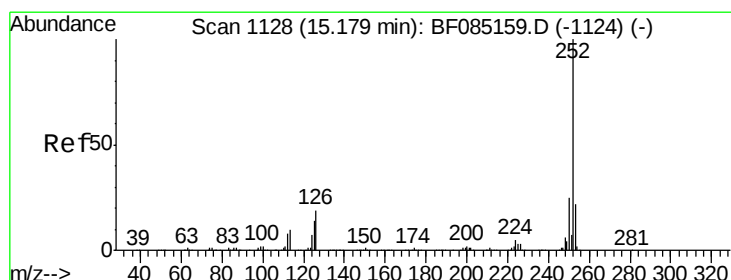
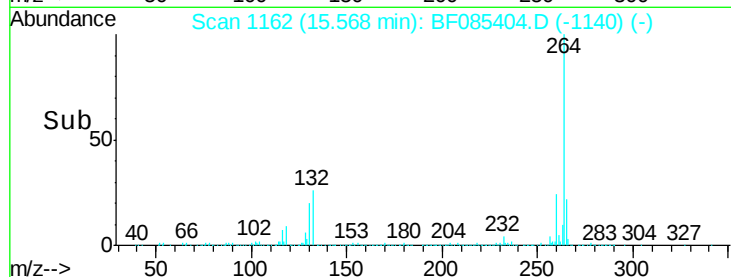
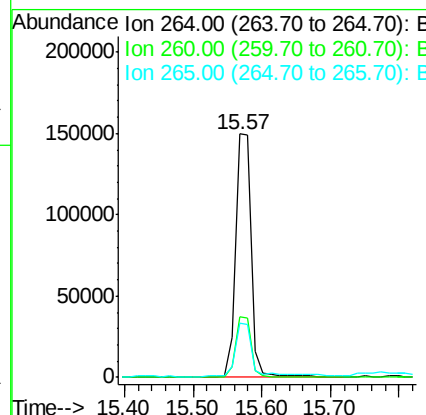
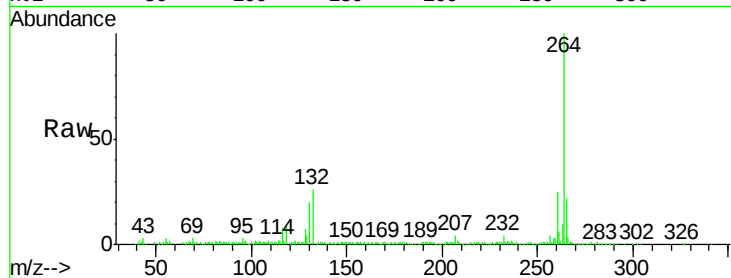
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.57 min Scan# 1162
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	241663		
260	24.7	19.2	28.8	
265	22.5	17.3	25.9	

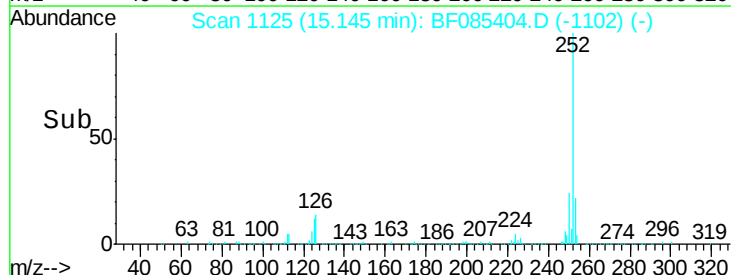
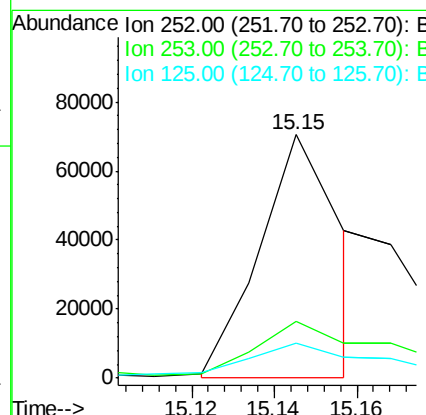
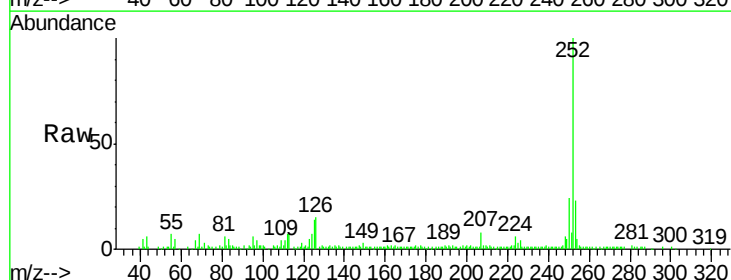
Manual Integrations
APPROVED

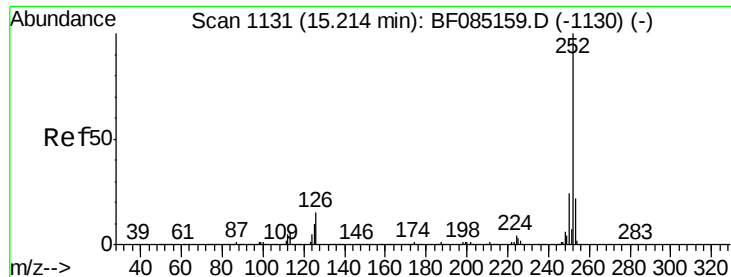
UMANGI
3/14/2016 10:46:09 AM



#87
Benzo(b)fluoranthene
Concen: 6.00 ng m
RT: 15.15 min Scan# 1125
Delta R.T. -0.03 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	96679		
253	23.2	17.8	26.6	
125	14.1	11.3	16.9	





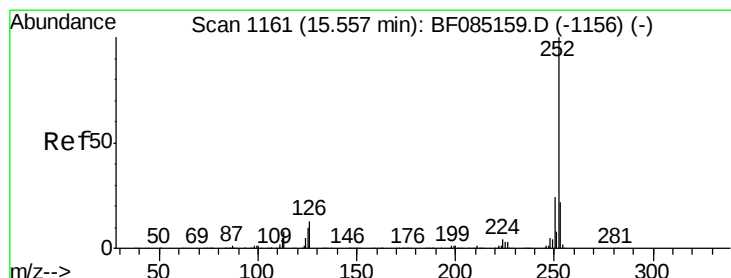
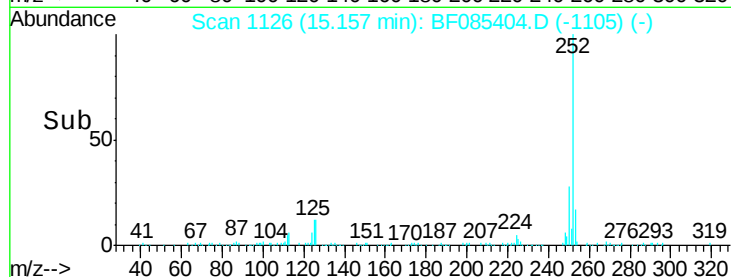
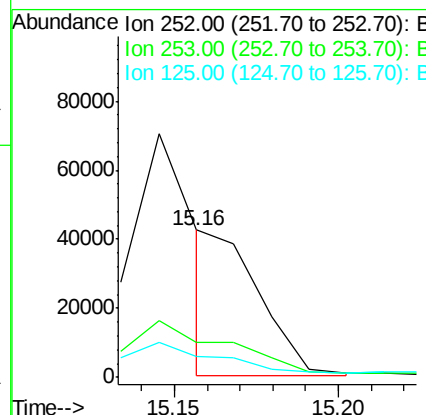
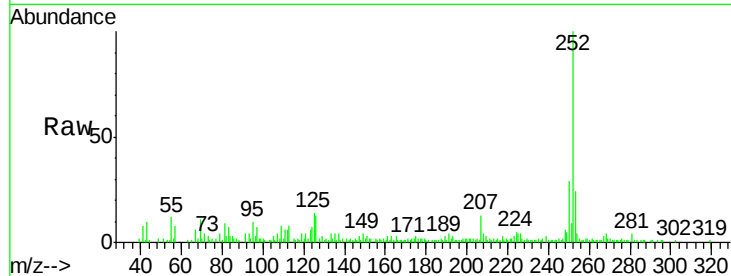
#88
Benzo(k)fluoranthene
Concen: 3.06 ng m
RT: 15.16 min Scan# 1126
Delta R.T. -0.06 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Instrument :
BNA_F
ClientSampleId :
W170TH-SB-18-COMP(0.5-1.5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.6
125	13.9	10.4	15.6

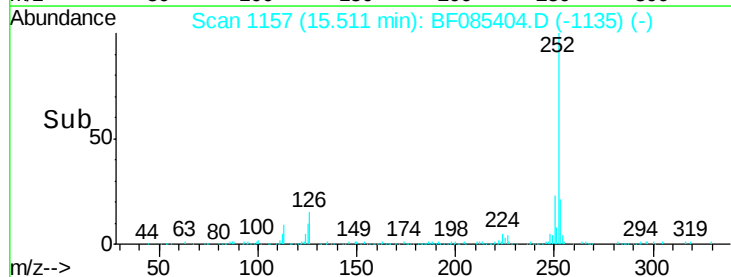
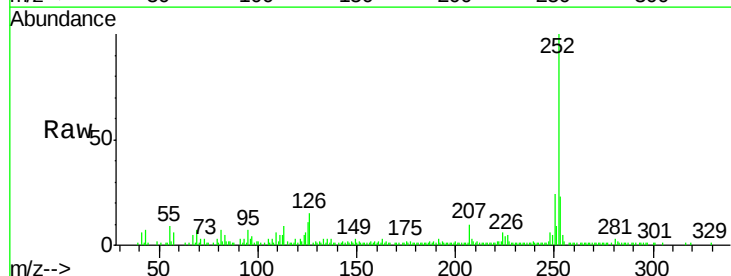
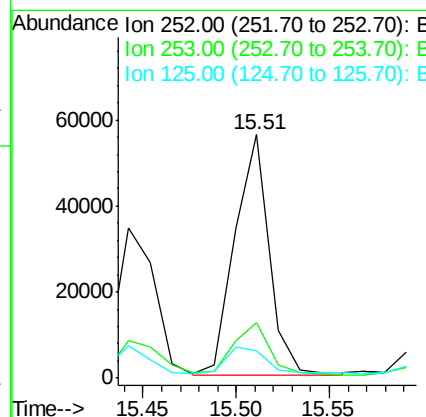
Manual Integrations
APPROVED

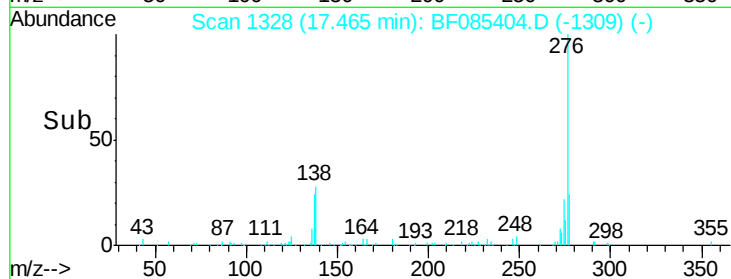
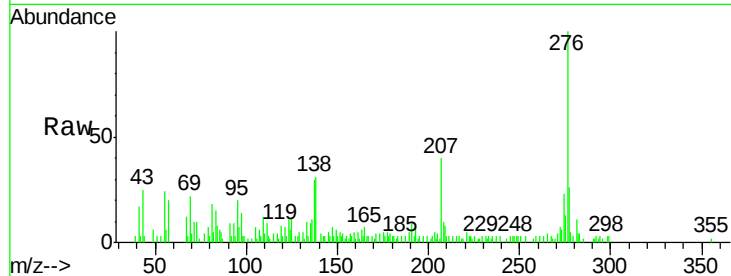
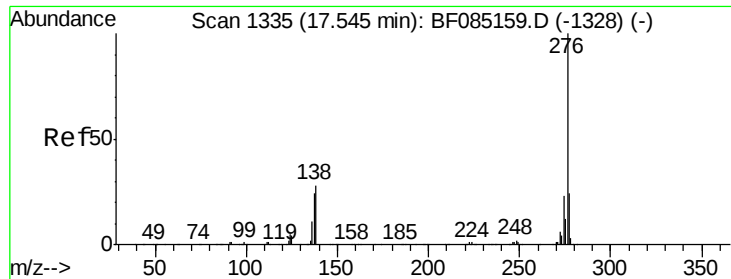
UMANGI
3/14/2016 10:46:09 AM



#89
Benzo(a)pyrene
Concen: 5.42 ng
RT: 15.51 min Scan# 1157
Delta R.T. -0.05 min
Lab File: BF085404.D
Acq: 12 Mar 2016 7:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	11.4	8.2	12.4





#91

Benzo(g,h,i)perylene

Concen: 2.79 ng

RT: 17.47 min Scan# 1328

Delta R.T. -0.08 min

Lab File: BF085404.D

Acq: 12 Mar 2016 7:34

Tgt Ion:	276	Resp:	31908
Ion Ratio	Lower	Upper	
276	100		
277	26.3	19.0	28.4
138	31.4	22.5	33.7

Instrument :

BNA_F

ClientSampleId :

W170TH-SB-18-COMP(0.5-1.5)

Manual Integrations
APPROVED

UMANGI
3/14/2016 10:46:09 AM

