

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
 Data File : BF085236.D
 Acq On : 5 Mar 2016 6:49
 Operator : SJ/IZ
 Sample : H1683-04
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-16-COMP(0.5-5.0)

Manual Integrations
 APPROVED

UMANGI
 3/7/2016 9:33:19 AM

Quant Time: Mar 07 00:41:46 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	6.97	152	168366	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	599865	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	245711	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	475770	20.00	ng	-0.01
75) Chrysene-d12	14.13	240	261495	20.00	ng	-0.02
86) Perylene-d12	15.60	264	283766	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	1628603	162.25	ng	0.01
7) Phenol-d6	6.60	99	1595668	121.34	ng	-0.01
23) Nitrobenzene-d5	7.53	82	1005878	89.73	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	350767	166.84	ng	-0.01
44) 2-Fluorobiphenyl	9.34	172	1503905	93.08	ng	-0.01
78) Terphenyl-d14	13.08	244	1011930	89.83	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.28	128	206835	7.01	ng	# 96
37) 2-Methylnaphthalene	8.97	142	206535	10.91	ng	99
49) Dimethylphthalate	9.73	163	290371	15.40	ng	# 94
51) Acenaphthene	10.05	154	67734	4.48	ng	87
57) Fluorene	10.56	166	123711	7.95	ng	# 95
70) Phenanthrene	11.52	178	626882	25.14	ng	98
71) Anthracene	11.58	178	251527	9.50	ng	96
74) Fluoranthene	12.71	202	839517	33.55	ng	98
77) Pyrene	12.94	202	768695	39.06	ng	99
80) Benzo(a)anthracene	14.12	228	417892	26.70	ng	98
82) Chrysene	14.16	228	284973m	19.71	ng	
85) Indeno(1,2,3-cd)pyrene	17.07	276	168298	14.91	ng	92
87) Benzo(b)fluoranthene	15.17	252	453632m	23.98	ng	
88) Benzo(k)fluoranthene	15.19	252	86865m	5.69	ng	
89) Benzo(a)pyrene	15.53	252	296189	18.90	ng	# 93
91) Benzo(g,h,i)perylene	17.51	276	150694	11.20	ng	98

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

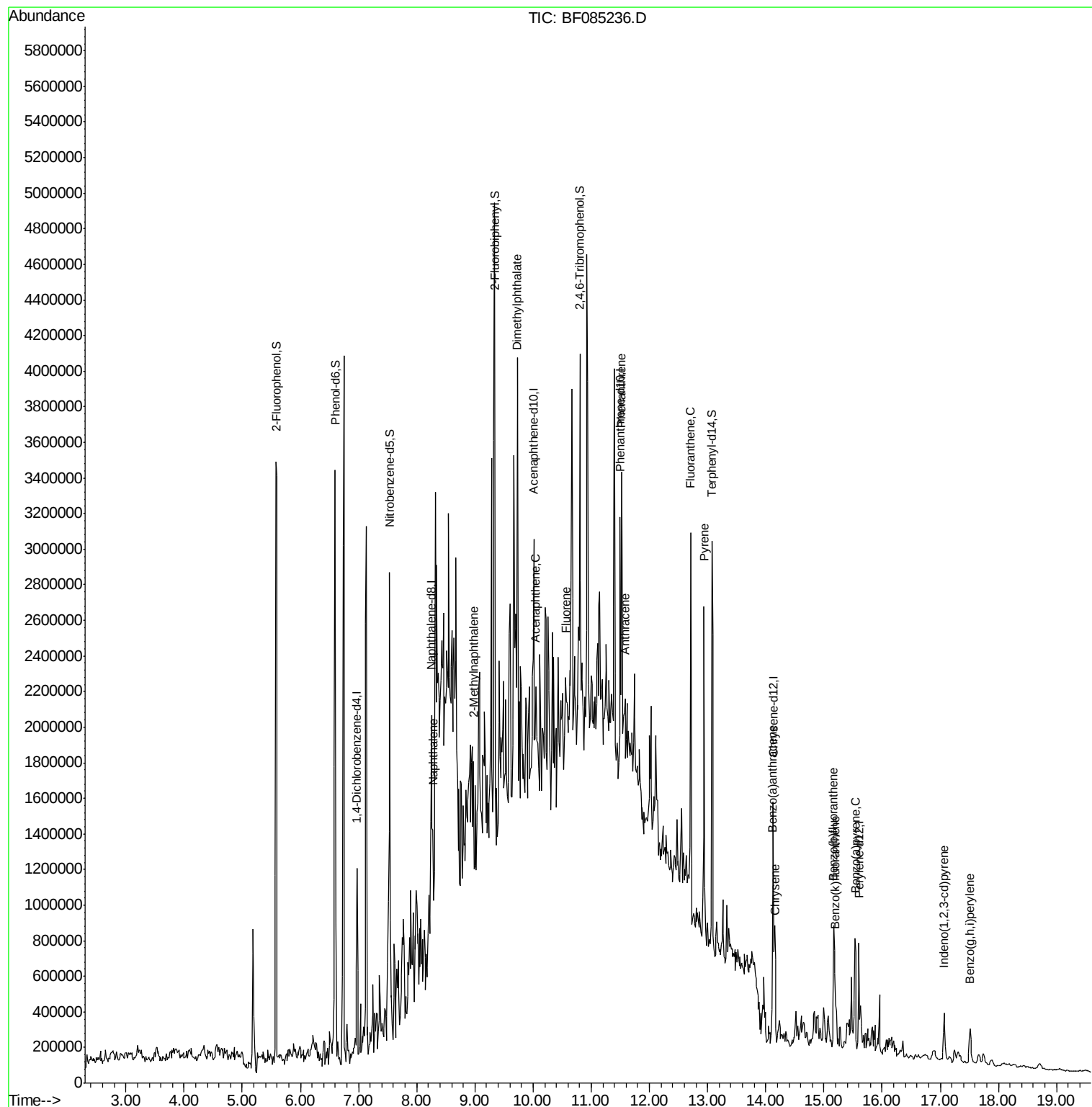
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
Data File : BF085236.D
Acq On : 5 Mar 2016 6:49
Operator : SJ/IZ
Sample : H1683-04
Misc :
ALS Vial : 33 Sample Multiplier: 1

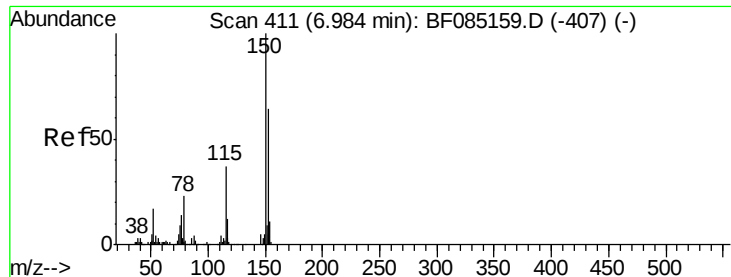
Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:19 AM

Quant Time: Mar 07 00:41:46 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

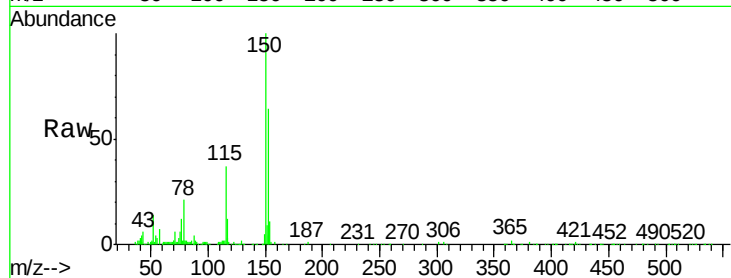
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.97 min Scan# 410
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

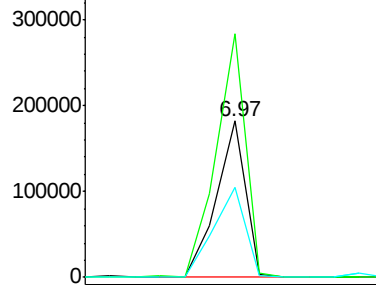
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.6	186.8
115	57.5	46.6	70.0

Manual Integrations
APPROVED

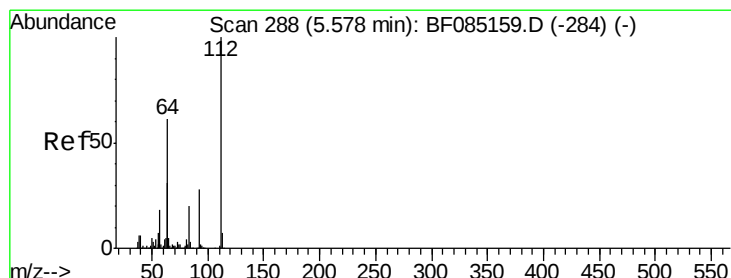
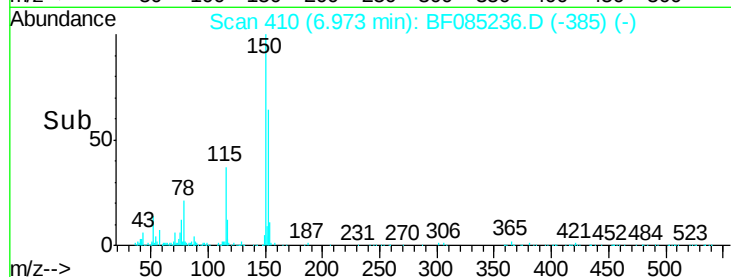
UMANGI
3/7/2016 9:33:19 AM



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



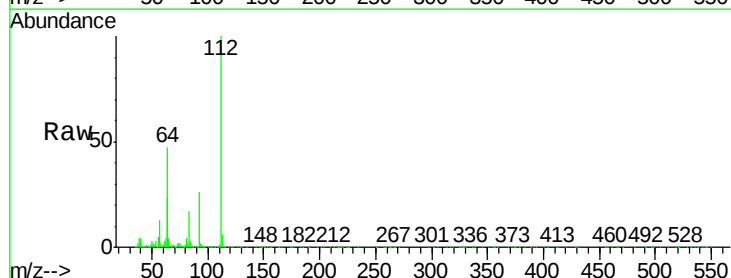
Time-->



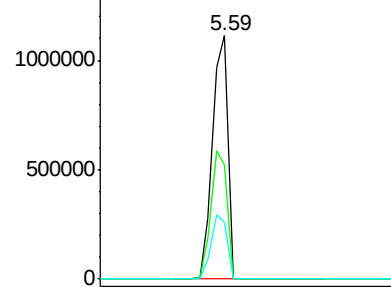
#5

2-Fluorophenol
Concen: 162.25 ng
RT: 5.59 min Scan# 289
Delta R.T. 0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

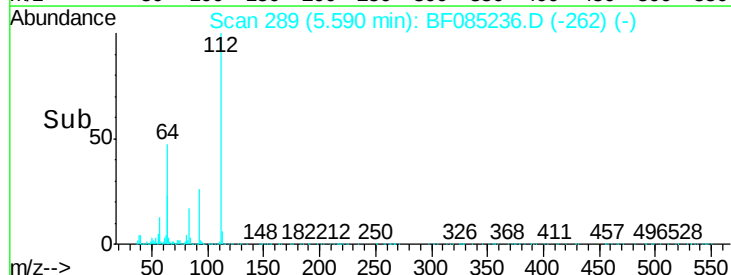
Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.9	49.0	73.4#
63	23.3	24.8	37.2#

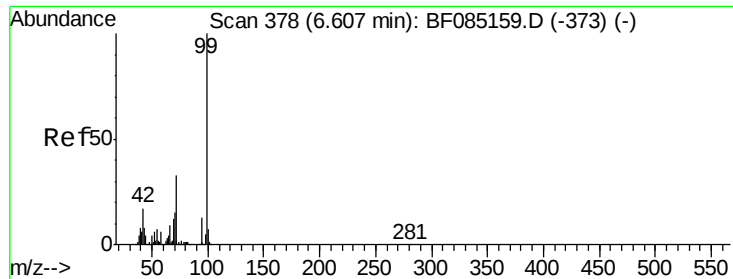


Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0



Time-->





#7

Phenol-d6

Concen: 121.34 ng

RT: 6.60 min Scan# 377

Delta R.T. -0.01 min

Lab File: BF085236.D

Acq: 5 Mar 2016 6:49

Instrument :

BNA_F

ClientSampleId :

SB-16-COMP(0.5-5.0)

Tot Ion: 99 Resp: 1595668

Ion Ratio Lower Upper

99 100

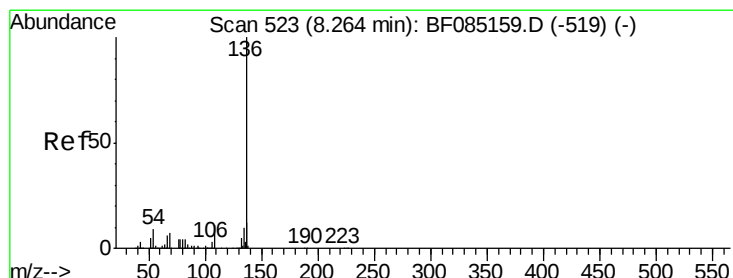
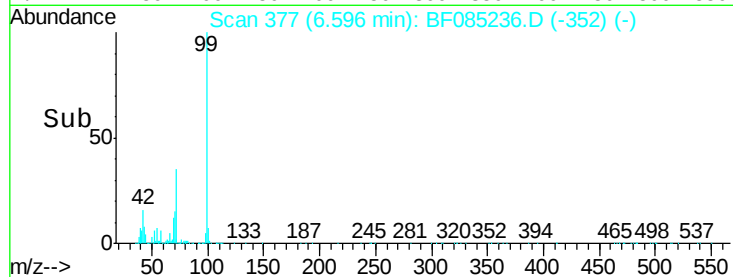
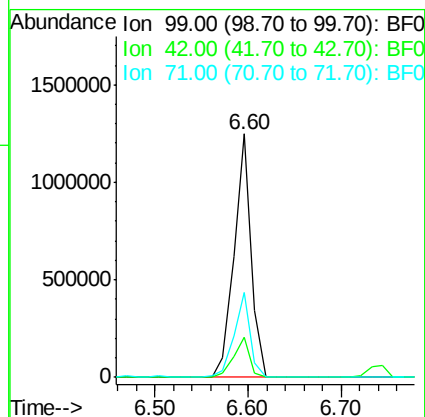
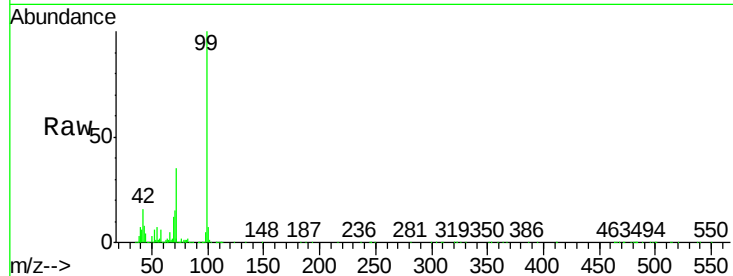
42 16.5 13.6 20.4

71 34.9 26.7 40.1

Manual Integrations
APPROVED

UMANGI

3/7/2016 9:33:19 AM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.25 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF085236.D

Acq: 5 Mar 2016 6:49

Tgt Ion: 136 Resp: 599865

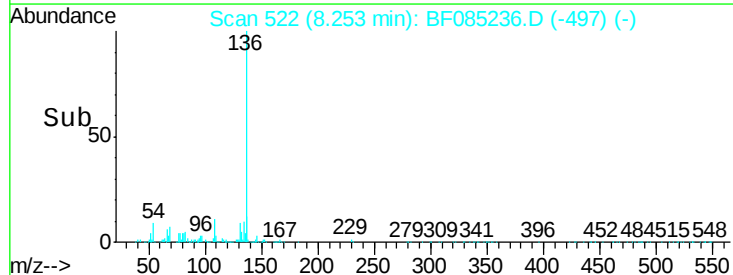
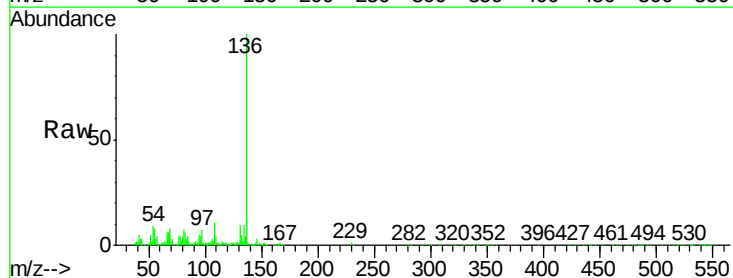
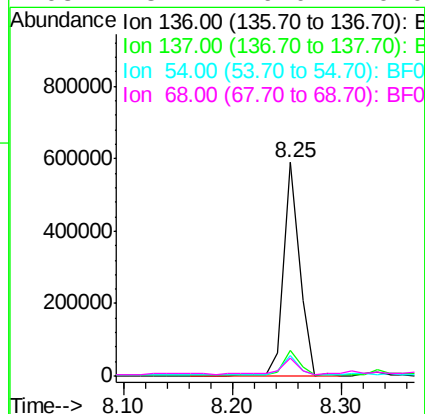
Ion Ratio Lower Upper

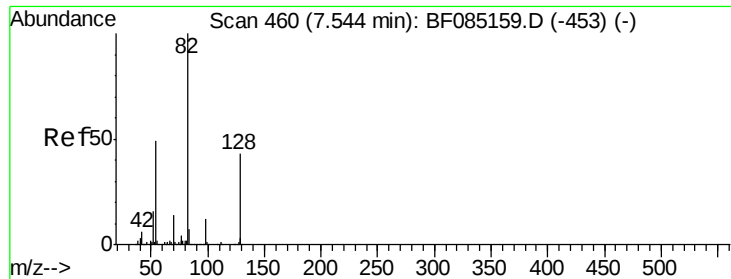
136 100

137 12.0 9.3 13.9

54 9.4 7.4 11.2

68 8.4 6.0 9.0





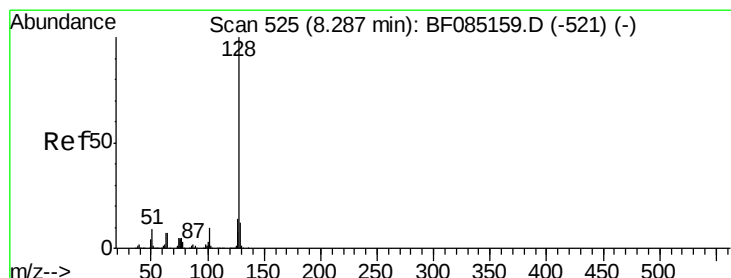
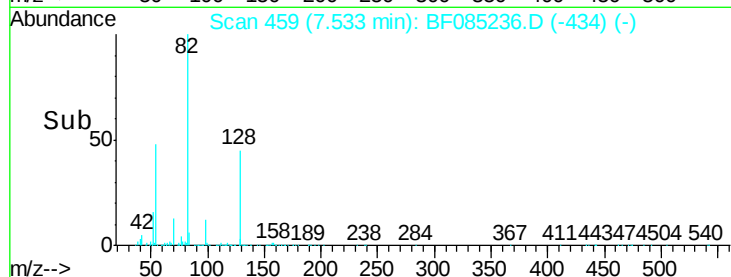
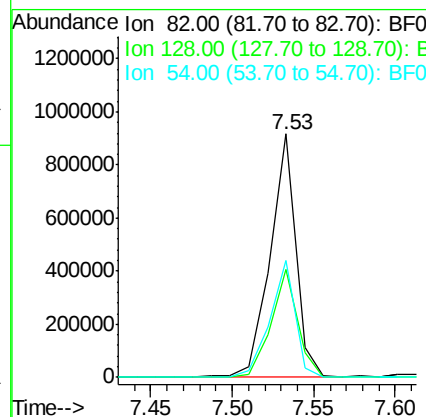
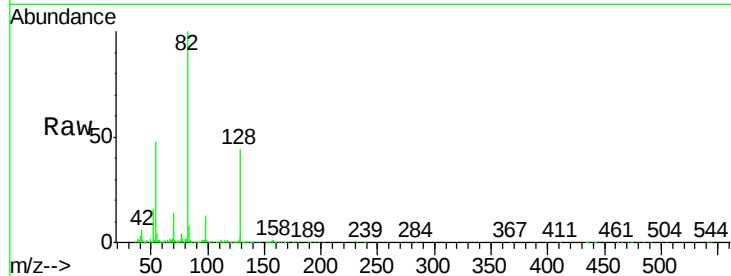
#23
 Nitrobenzene-d5
 Concen: 89.73 ng
 RT: 7.53 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF085236.D
 Acq: 5 Mar 2016 6:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-16-COMP(0.5-5.0)

Tot Ion: 82 Resp: 1005878
 Ion Ratio Lower Upper
 82 100
 128 44.4 34.5 51.7
 54 47.8 39.3 58.9

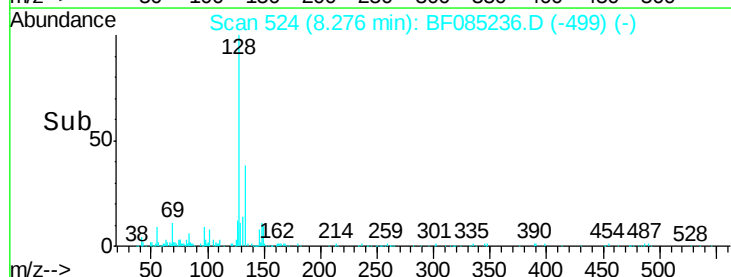
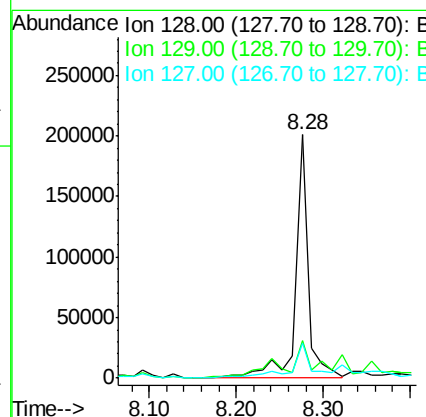
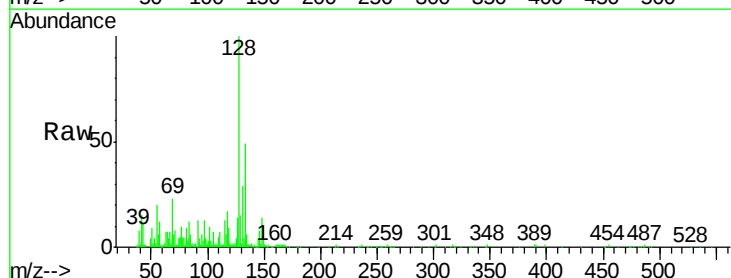
Manual Integrations
 APPROVED

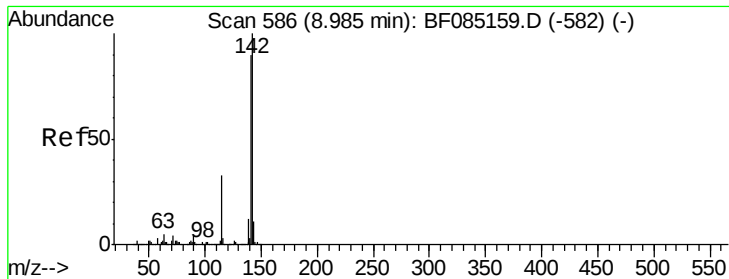
UMANGI
 3/7/2016 9:33:19 AM



#31
 Naphthalene
 Concen: 7.01 ng
 RT: 8.28 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: BF085236.D
 Acq: 5 Mar 2016 6:49

Tgt Ion: 128 Resp: 206835
 Ion Ratio Lower Upper
 128 100
 129 15.4 9.7 14.5#
 127 14.2 11.2 16.8





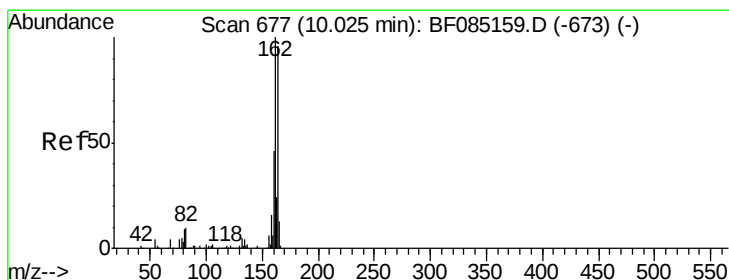
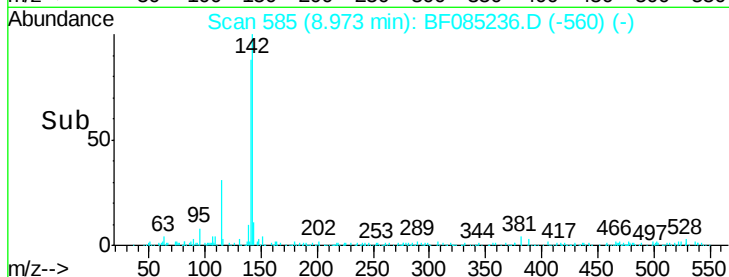
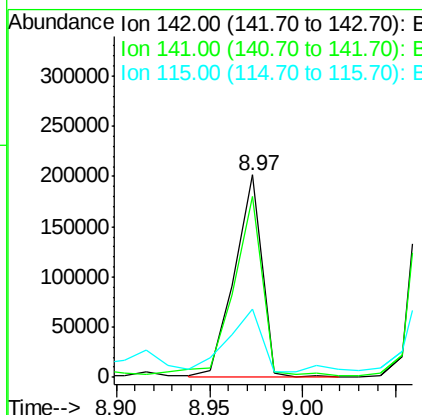
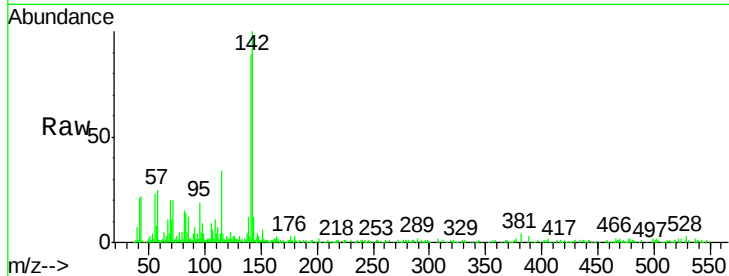
#37
2-Methylnaphthalene
Concen: 10.91 ng
RT: 8.97 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.7	107.5
115	34.1	26.2	39.4

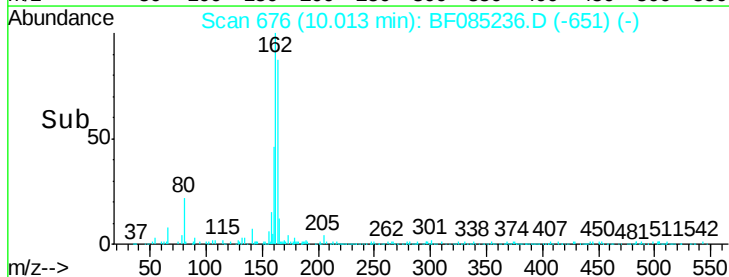
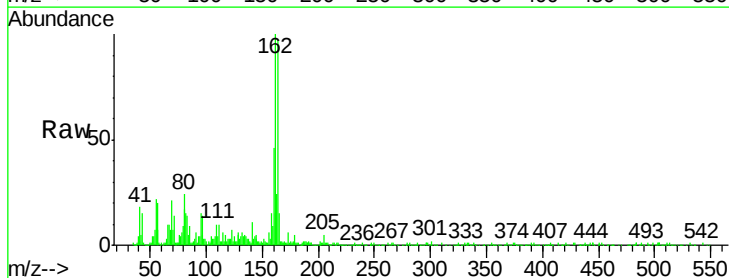
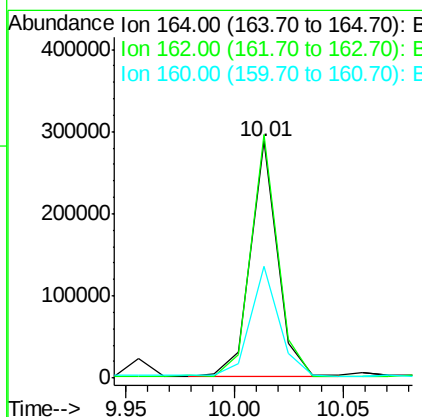
Manual Integrations
APPROVED

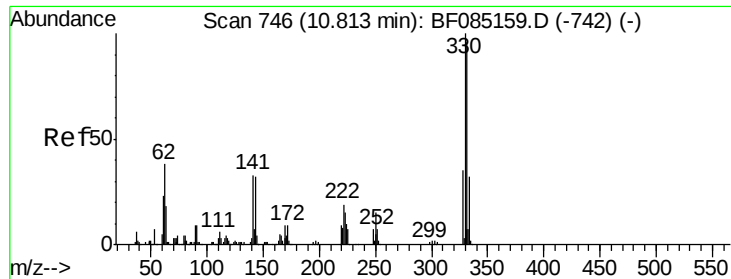
UMANGI
3/7/2016 9:33:19 AM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.01 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	83.3	124.9
160	47.1	37.9	56.9





#41

2,4,6-Tribromophenol

Concen: 166.84 ng

RT: 10.80 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF085236.D

Acq: 5 Mar 2016 6:49

Instrument :

BNA_F

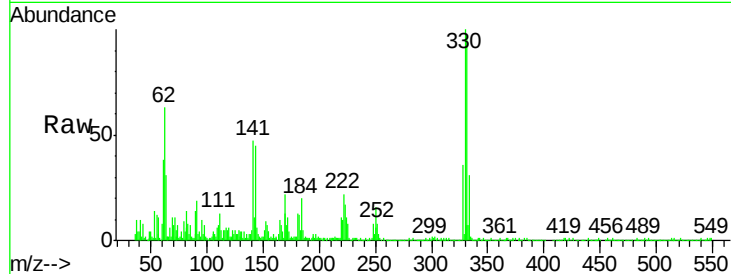
ClientSampleId :

SB-16-COMP(0.5-5.0)

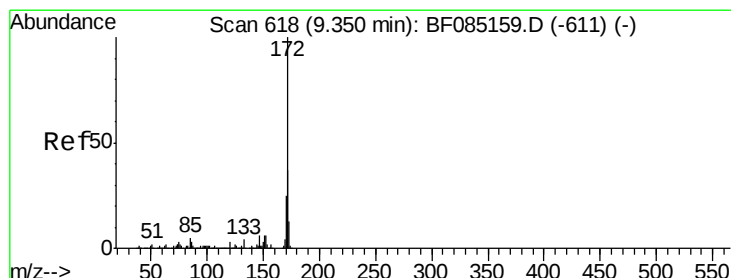
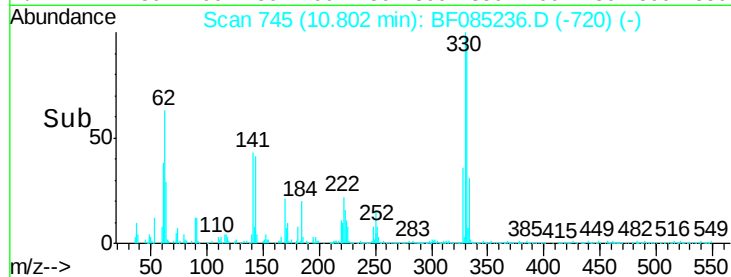
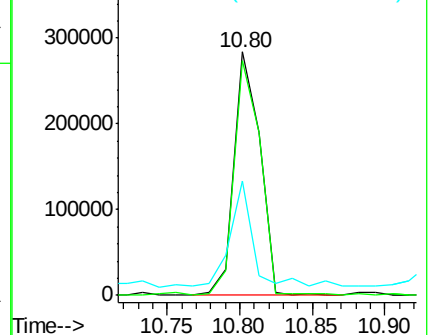
Tot Ion:	330	Resp:	350767
Ion Ratio	Lower	Upper	
330	100		
332	98.3	77.1	115.7
141	37.4	35.0	52.6

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:19 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: 93.08 ng

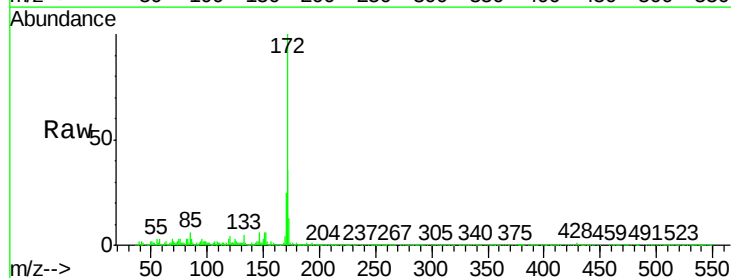
RT: 9.34 min Scan# 617

Delta R.T. -0.01 min

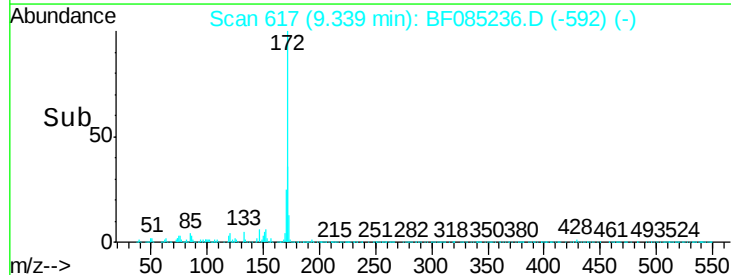
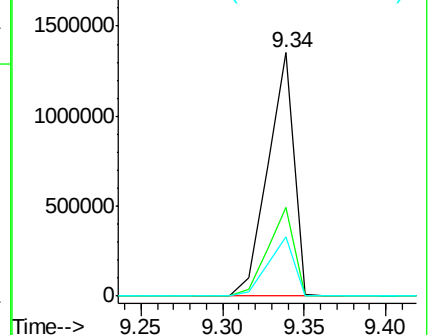
Lab File: BF085236.D

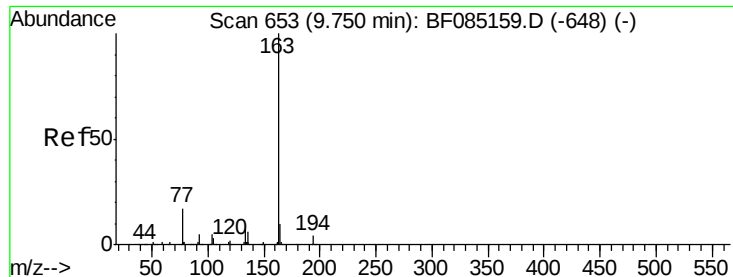
Acq: 5 Mar 2016 6:49

Tgt Ion:	172	Resp:	1503905
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.3	43.9
170	24.5	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





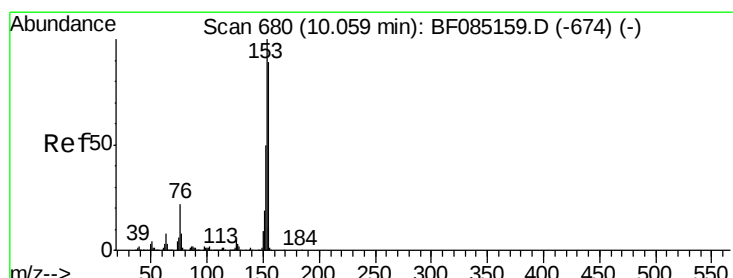
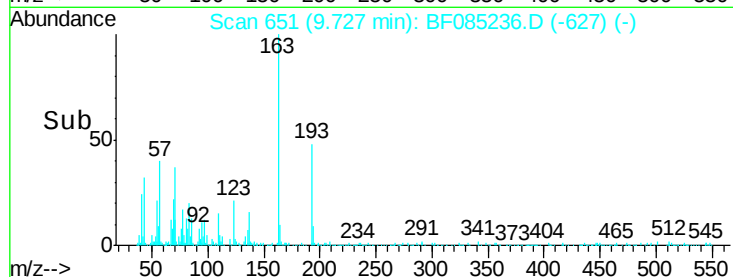
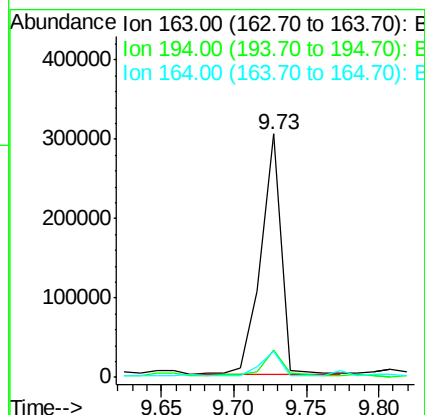
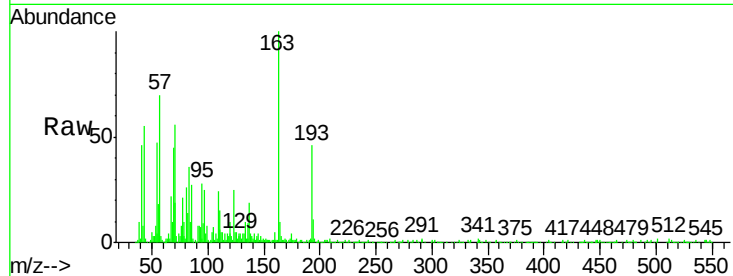
#49
Dimethylphthalate
Concen: 15.40 ng
RT: 9.73 min Scan# 651
Delta R.T. -0.02 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	11.3	3.1	4.7#
164	10.5	8.2	12.4

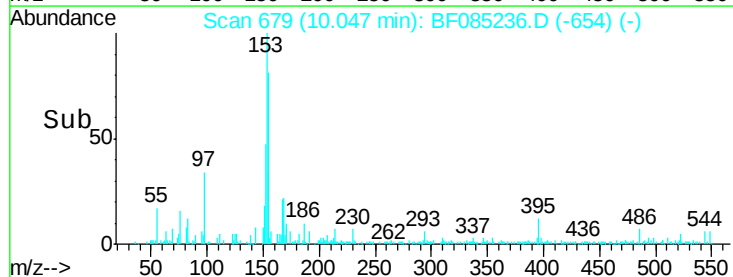
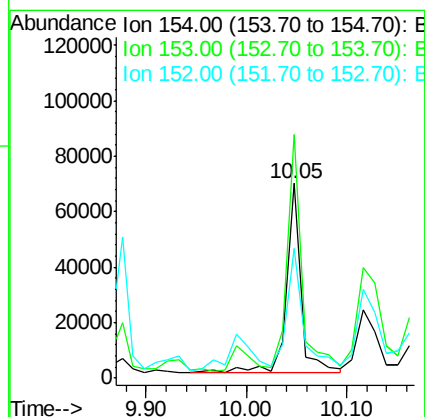
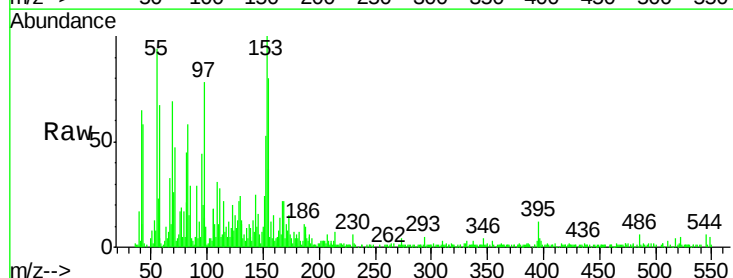
Manual Integrations
APPROVED

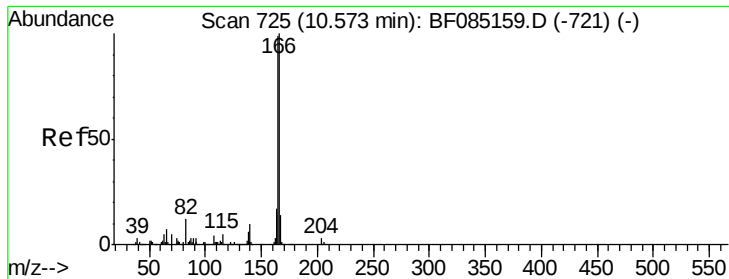
UMANGI
3/7/2016 9:33:19 AM



#51
Acenaphthene
Concen: 4.48 ng
RT: 10.05 min Scan# 679
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	124.9	89.8	134.8
152	66.7	44.6	66.8





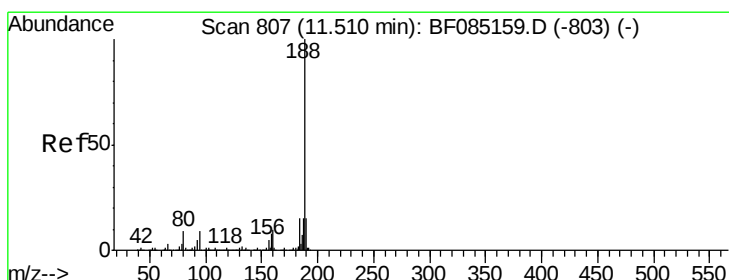
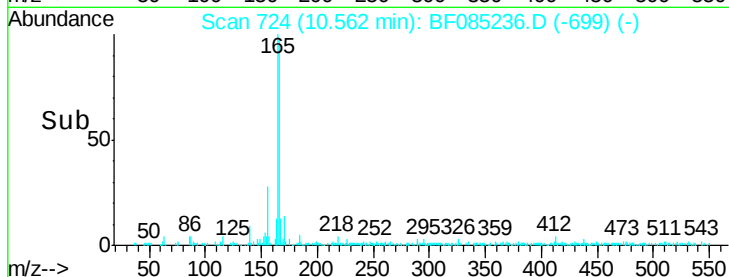
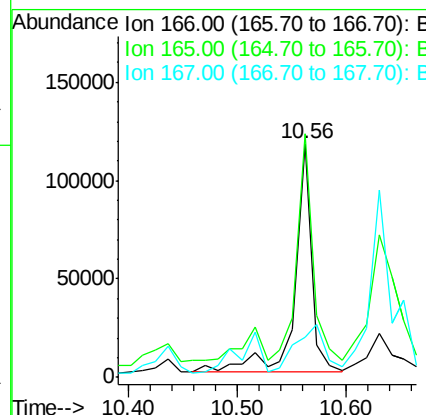
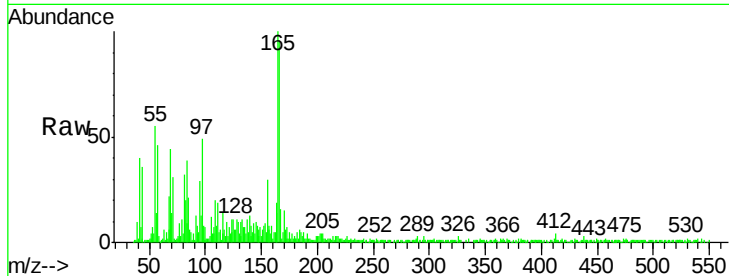
#57
Fluorene
Concen: 7.95 ng
RT: 10.56 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
123711	166	100			
	165	104.1	79.4	119.0	
	167	17.1	11.0	16.6	

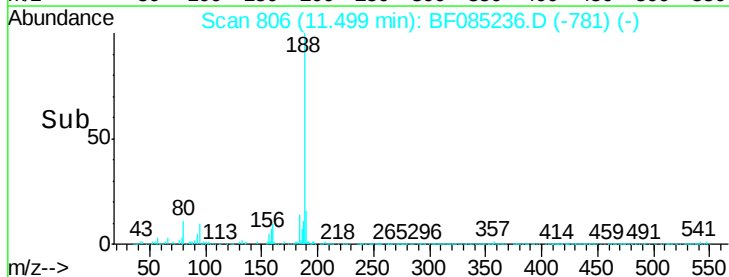
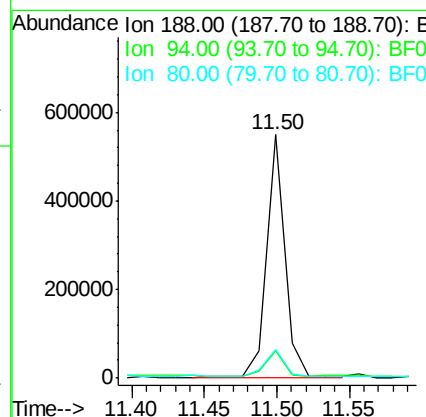
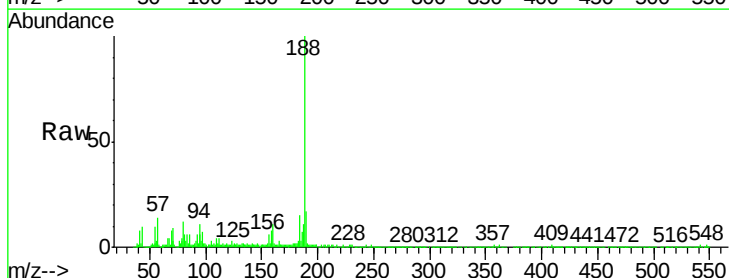
Manual Integrations
APPROVED

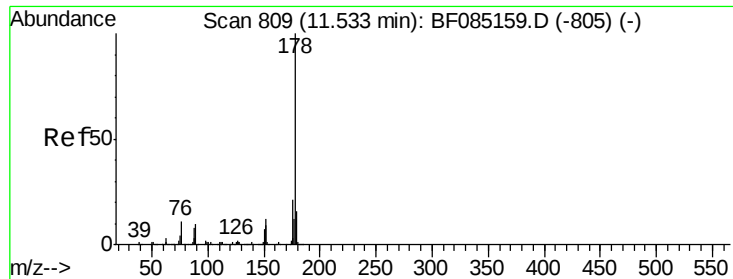
UMANGI
3/7/2016 9:33:19 AM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.50 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
475770	188	100			
	94	11.3	7.0	10.6	
	80	11.7	7.4	11.0	





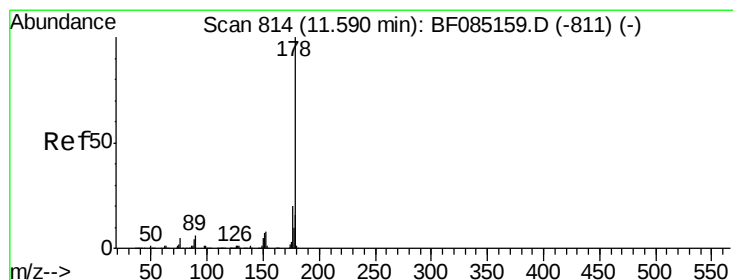
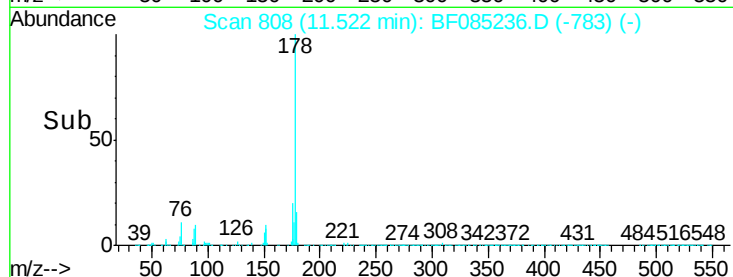
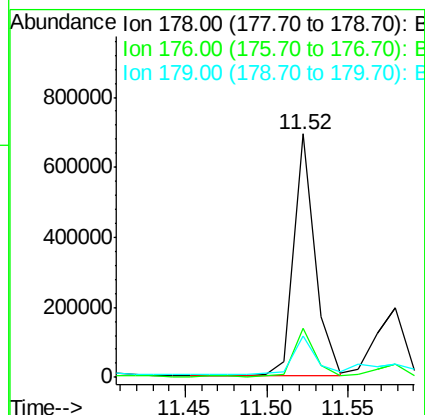
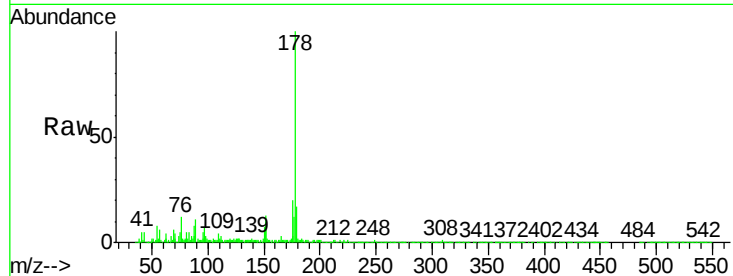
#70
Phenanthrene
Concen: 25.14 ng
RT: 11.52 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.8	25.2
179	17.2	13.1	19.7

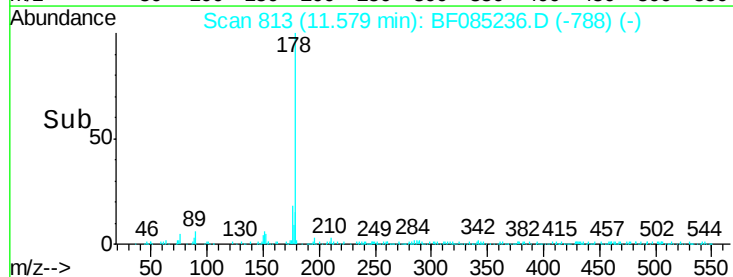
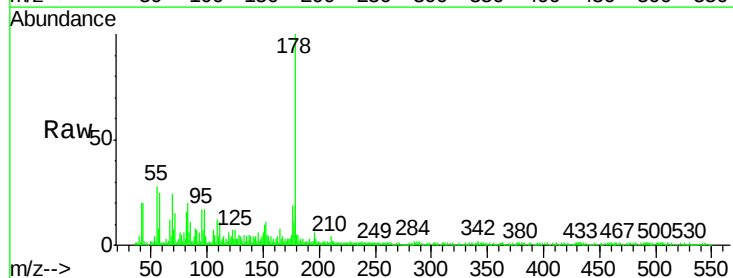
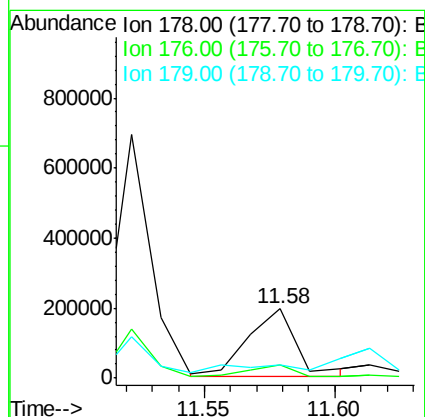
Manual Integrations
APPROVED

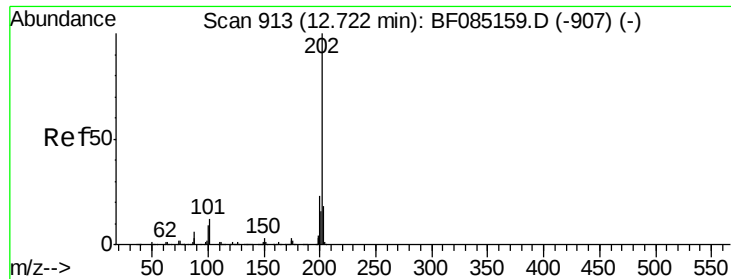
UMANGI
3/7/2016 9:33:19 AM



#71
Anthracene
Concen: 9.50 ng
RT: 11.58 min Scan# 813
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.9	23.9
179	18.6	12.5	18.7





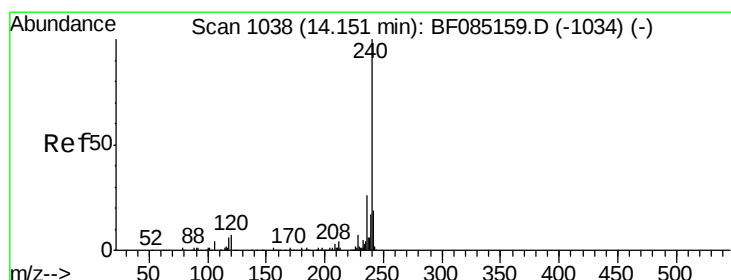
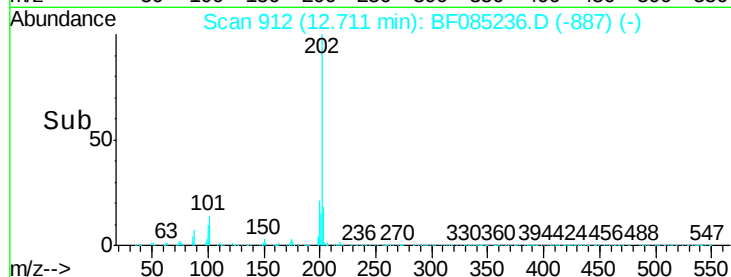
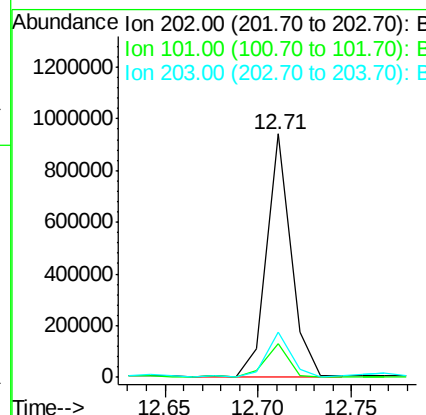
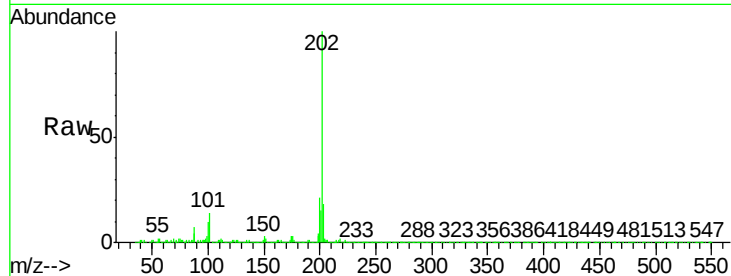
#74
Fluoranthene
Concen: 33.55 ng
RT: 12.71 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	13.9	0.0	31.8
203	18.5	0.0	38.4

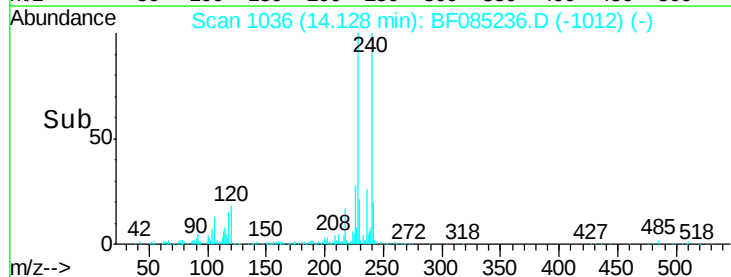
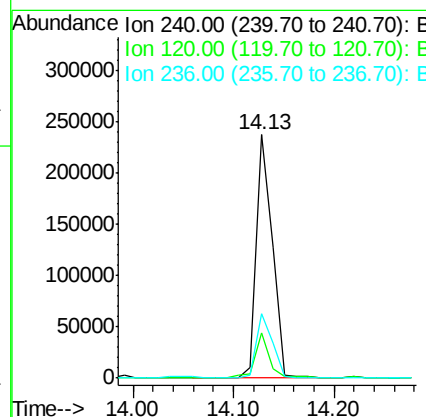
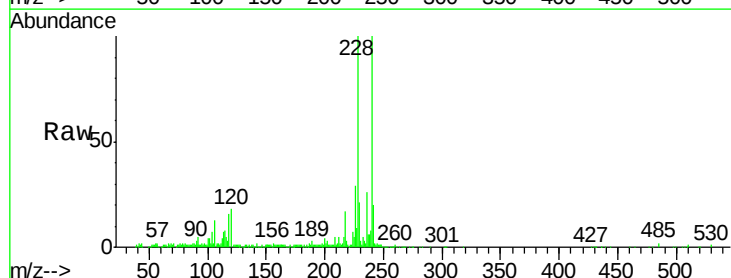
Manual Integrations
APPROVED

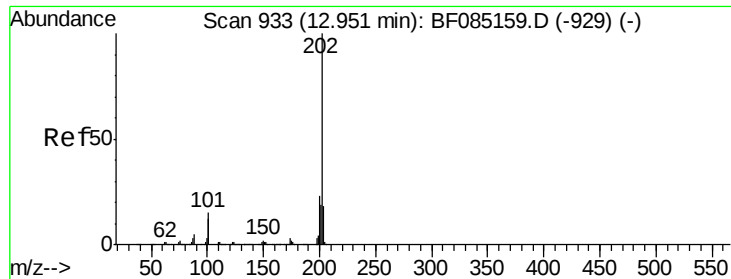
UMANGI
3/7/2016 9:33:19 AM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.13 min Scan# 1036
Delta R.T. -0.02 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	18.3	5.3	7.9#
236	26.4	20.7	31.1





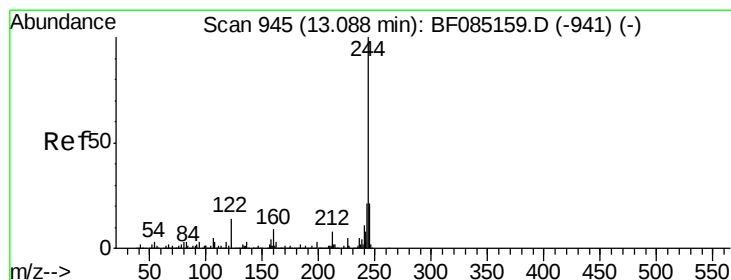
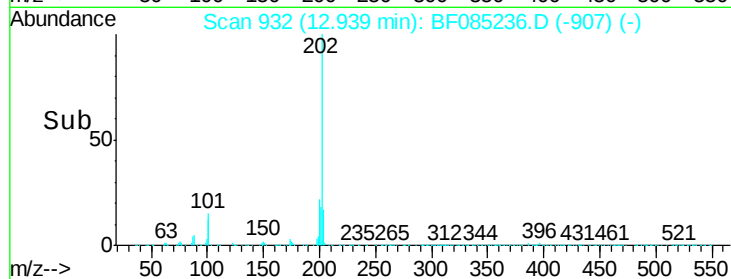
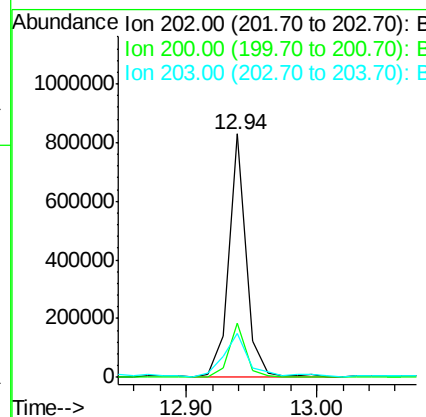
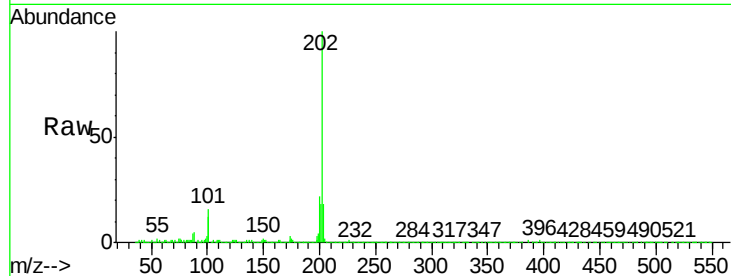
#77
Pvrene
Concen: 39.06 ng
RT: 12.94 min Scan# 932
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.0	18.2	27.4
203	18.2	14.7	22.1

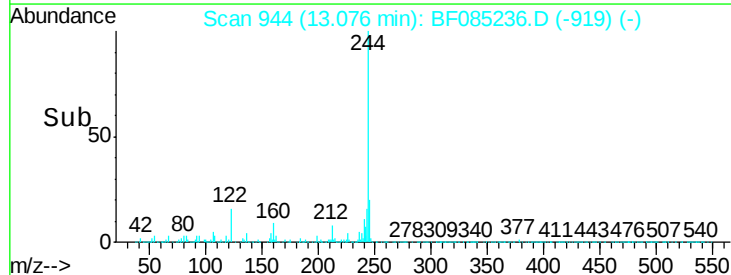
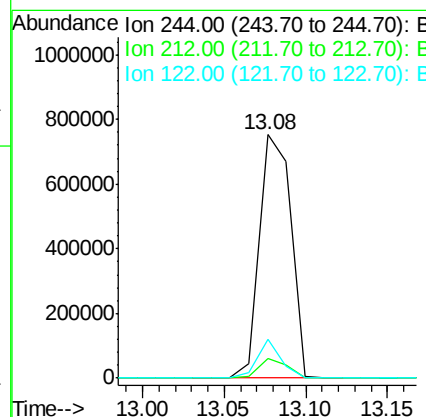
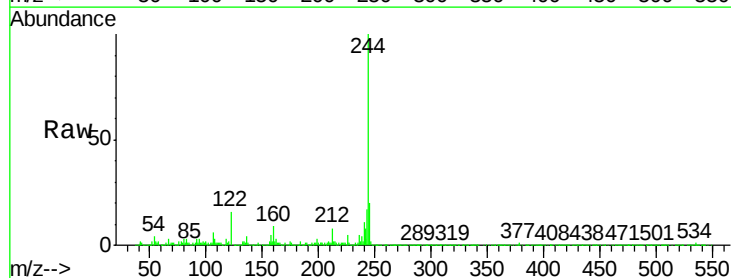
Manual Integrations
APPROVED

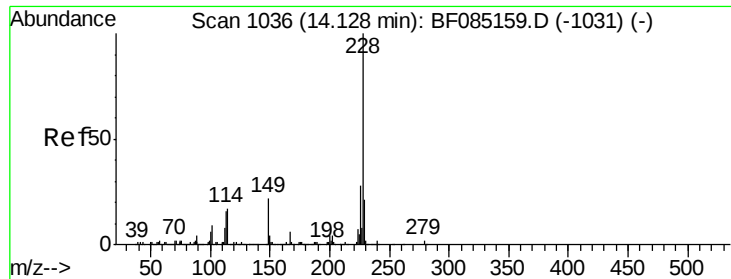
UMANGI
3/7/2016 9:33:19 AM



#78
Terphenyl-d14
Concen: 89.83 ng
RT: 13.08 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.4	9.6
122	16.2	11.4	17.2





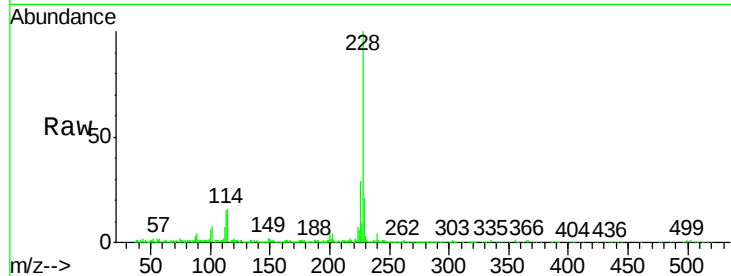
#80
Benzo(a)anthracene
Concen: 26.70 ng
RT: 14.12 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

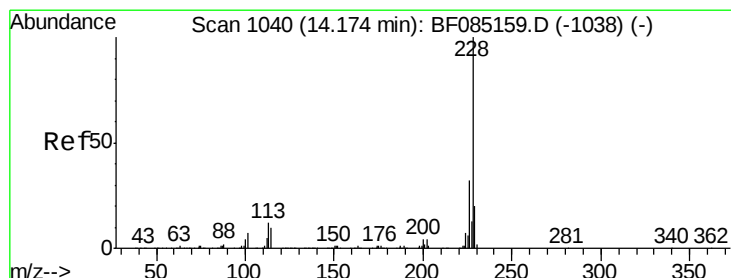
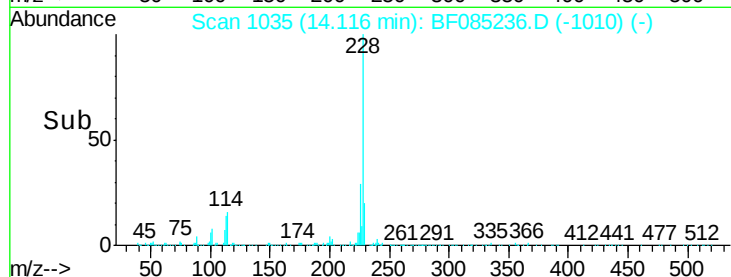
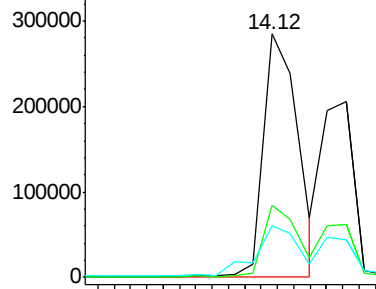
Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100		417892		
226	29.4	22.8	34.2		
229	21.4	16.6	24.8		

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:19 AM

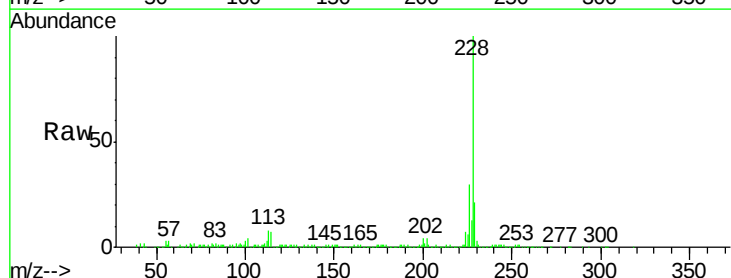


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

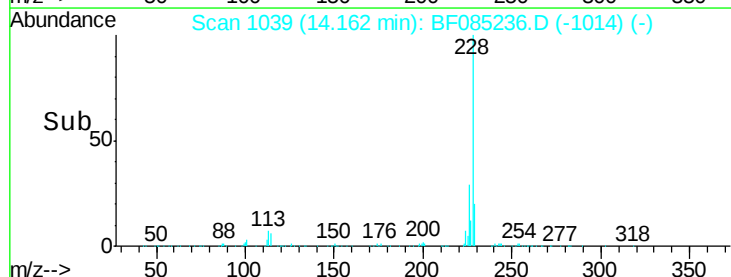
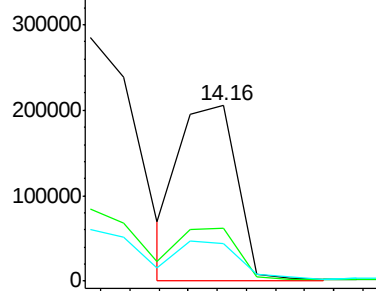


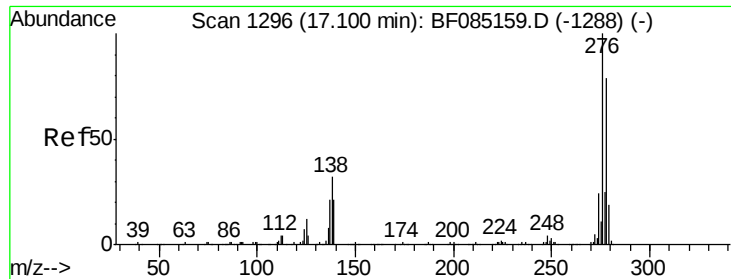
#82
Chrysene
Concen: 19.71 ng m
RT: 14.16 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100		284973		
226	30.2	25.2	37.8		
229	21.0	16.0	24.0		



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





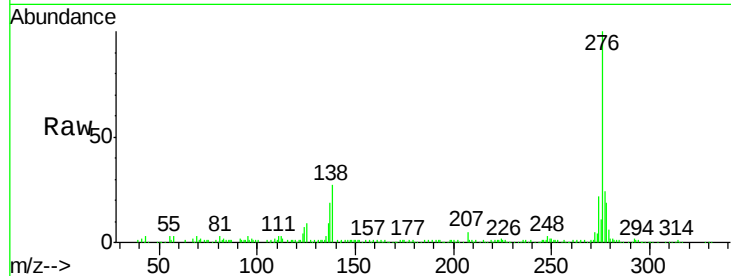
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.91 ng
RT: 17.07 min Scan# 1293
Delta R.T. -0.03 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.4	26.4	39.6
277	28.9	20.2	30.2

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:19 AM

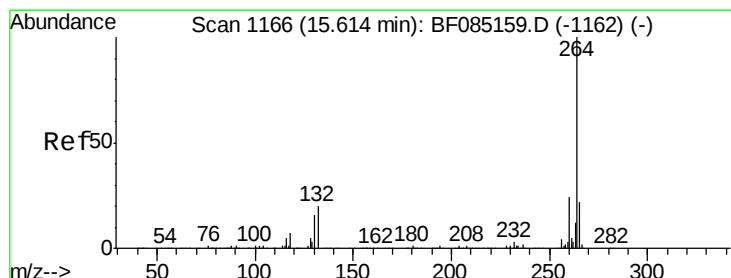
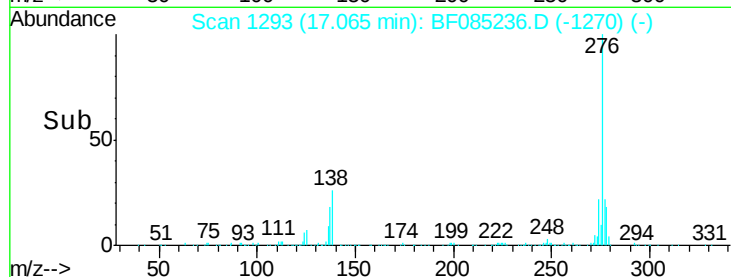
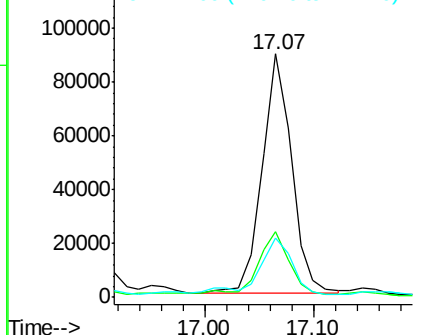


Abundance

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: 15.60 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

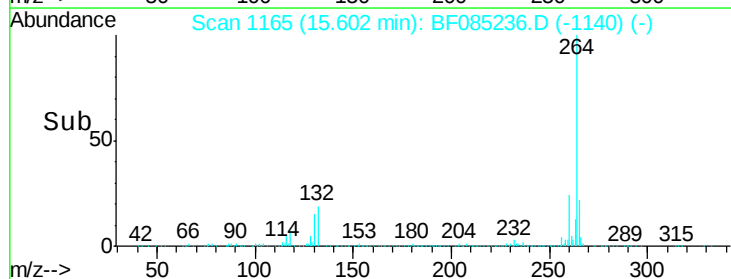
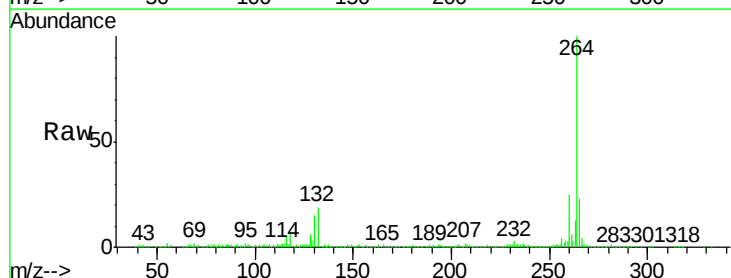
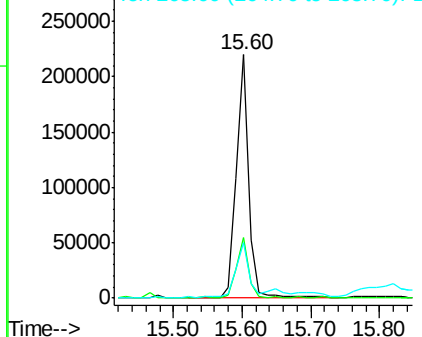
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	22.6	17.3	25.9

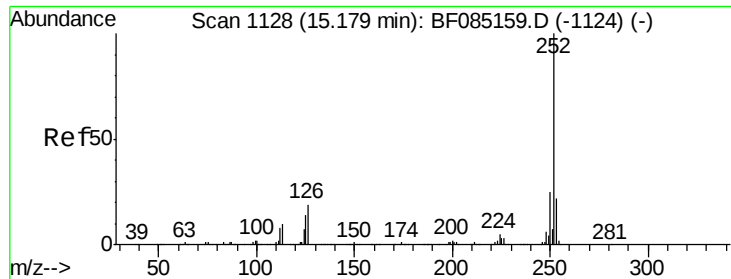
Abundance

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





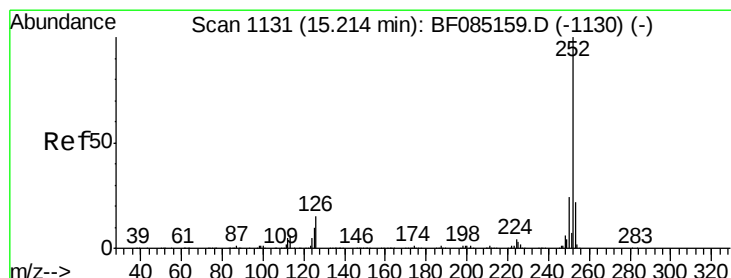
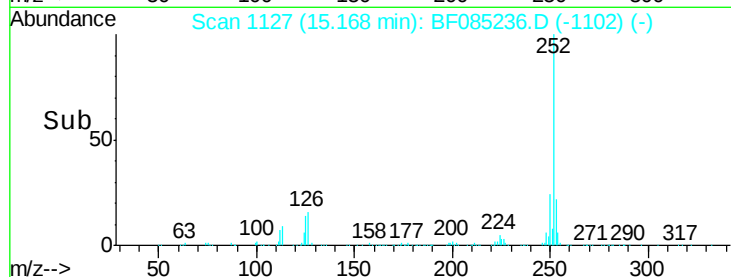
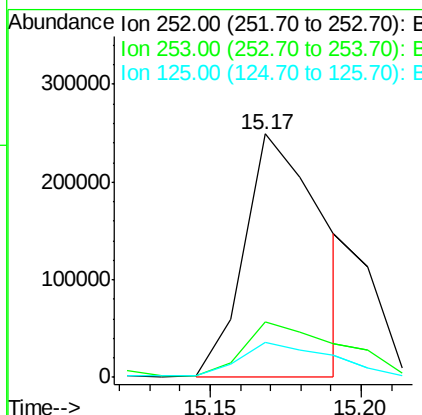
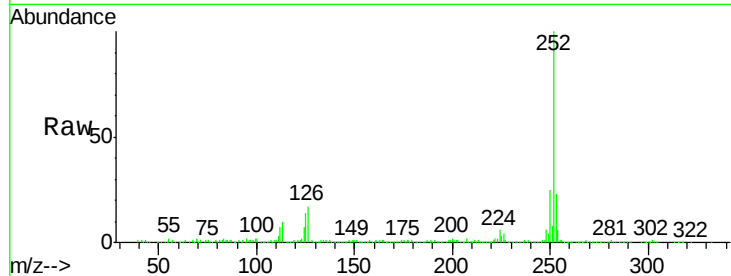
#87
Benzo(b)fluoranthene
Concen: 23.98 ng m
RT: 15.17 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Instrument :
BNA_F
ClientSampleId :
SB-16-COMP(0.5-5.0)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	14.4	11.3	16.9

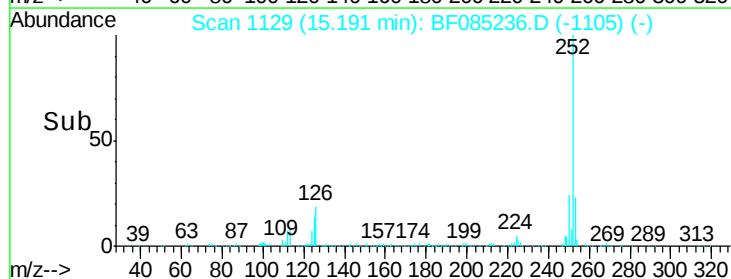
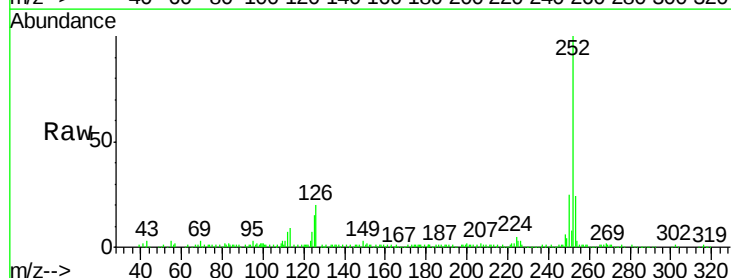
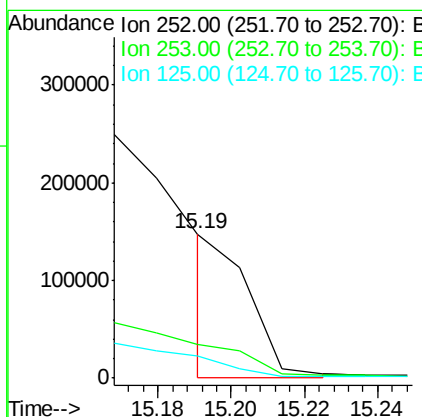
Manual Integrations
APPROVED

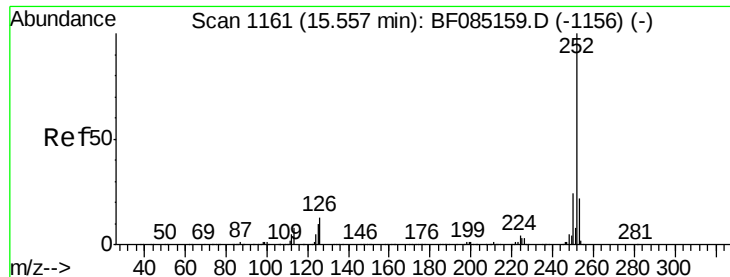
UMANGI
3/7/2016 9:33:19 AM



#88
Benzo(k)fluoranthene
Concen: 5.69 ng m
RT: 15.19 min Scan# 1129
Delta R.T. -0.02 min
Lab File: BF085236.D
Acq: 5 Mar 2016 6:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	15.2	10.4	15.6





#89

Benzo(a)pyrene

Concen: 18.90 ng

RT: 15.53 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BF085236.D

Acq: 5 Mar 2016 6:49

Instrument :

BNA_F

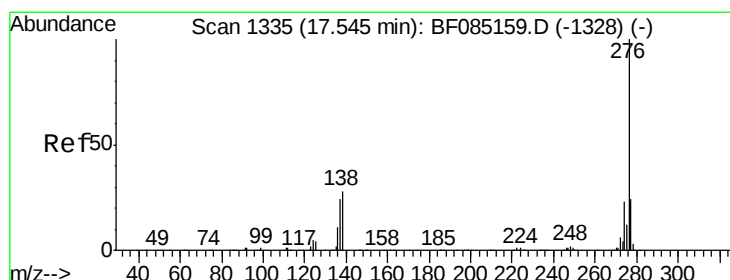
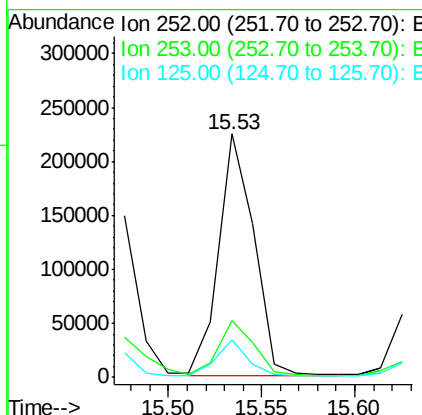
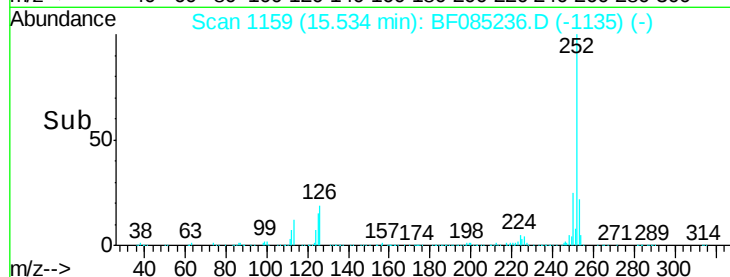
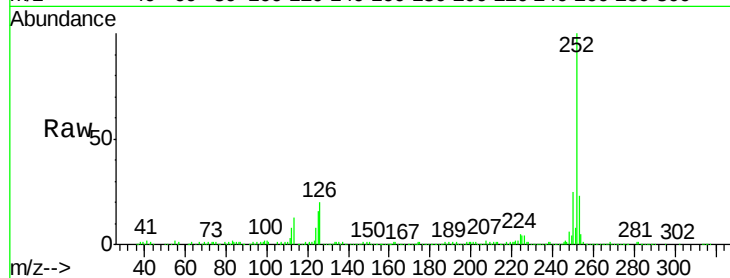
ClientSampleId :

SB-16-COMP(0.5-5.0)

Tot Ion:	252	Resp:	296189
Ion Ratio		Lower	Upper
252	100		
253	23.2	17.4	26.0
125	15.6	8.2	12.4

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:19 AM



#91

Benzo(g,h,i)perylene

Concen: 11.20 ng

RT: 17.51 min Scan# 1332

Delta R.T. -0.03 min

Lab File: BF085236.D

Acq: 5 Mar 2016 6:49

Tgt Ion:	276	Resp:	150694
Ion Ratio		Lower	Upper
276	100		
277	23.5	19.0	28.4
138	25.9	22.5	33.7

