

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020516\
 Data File : BF084888.D
 Acq On : 6 Feb 2016 4:22
 Operator : SJ/IZ
 Sample : H1329-04 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Manual Integrations
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Quant Time: Feb 08 00:16:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	160858	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	664475	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	277378	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	460536	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	327262	20.00	ng	-0.03
86) Perylene-d12	15.17	264	337750	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	231857	22.45	ng	-0.03
7) Phenol-d6	6.30	99	318065	24.84	ng	-0.03
23) Nitrobenzene-d5	7.23	82	175378	14.87	ng	-0.03
41) 2,4,6-Tribromophenol	10.48	330	50050	17.30	ng	-0.05
44) 2-Fluorobiphenyl	9.02	172	318961	14.37	ng	-0.03
78) Terphenyl-d14	12.76	244	175175	12.13	ng	-0.03
Target Compounds						Qvalue
70) Phenanthrene	11.20	178	155332	6.08	ng	98
74) Fluoranthene	12.38	202	162574	6.29	ng	91
77) Pyrene	12.60	202	150109	5.99	ng	99
80) Benzo(a)anthracene	13.79	228	87653	4.32	ng	97
82) Chrysene	13.82	228	55905	2.84	ng	96
85) Indeno(1,2,3-cd)pyrene	16.44	276	43674	2.82	ng	97
87) Benzo(b)fluoranthene	14.80	252	81781m	3.60	ng	
89) Benzo(a)pyrene	15.12	252	67797	3.51	ng	# 94
91) Benzo(g,h,i)perylene	16.82	276	44935	2.74	ng	97

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

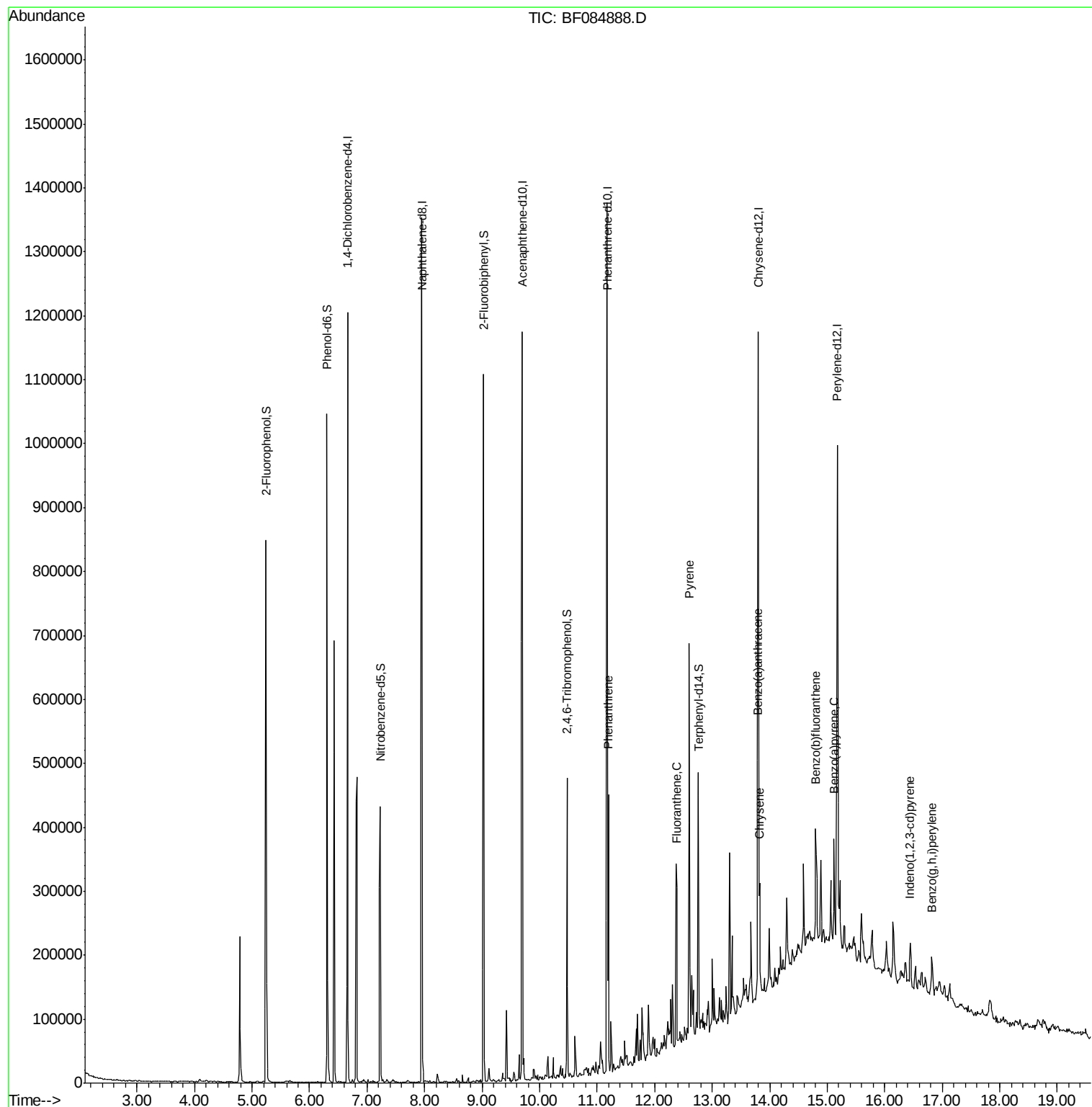
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020516\
Data File : BF084888.D
Acq On : 6 Feb 2016 4:22
Operator : SJ/IZ
Sample : H1329-04 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

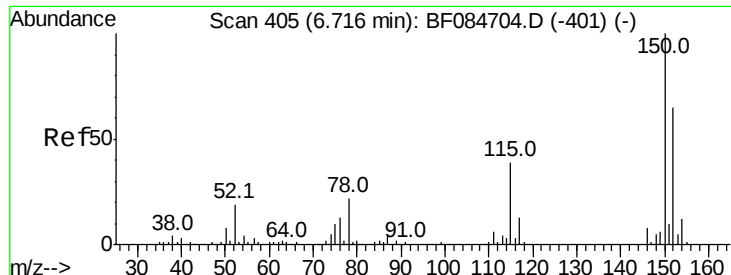
Instrument :
BNA_F
ClientSampleId :
S4-B006(10-12)

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Quant Time: Feb 08 00:16:08 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

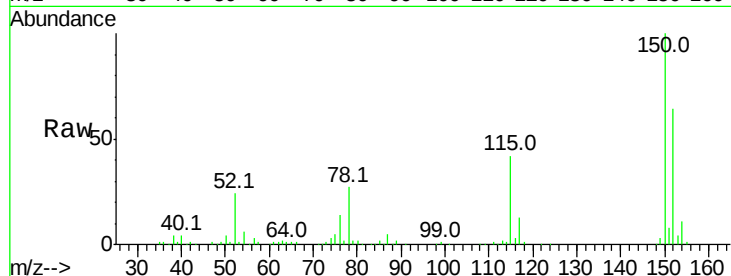
ClientSampleId :

S4-B006(10-12)

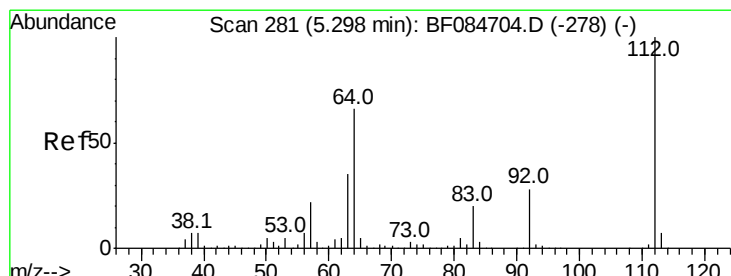
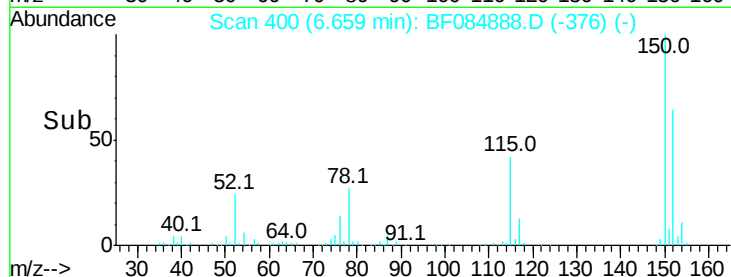
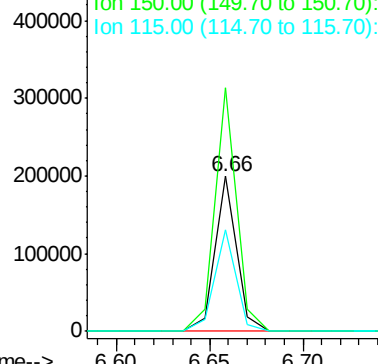
Tot Ion:	152	Resp:	160858
Ion Ratio	Lower	Upper	
152	100		
150	157.4	123.0	184.4
115	65.7	51.4	77.2

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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: 22.45 ng

RT: 5.24 min Scan# 276

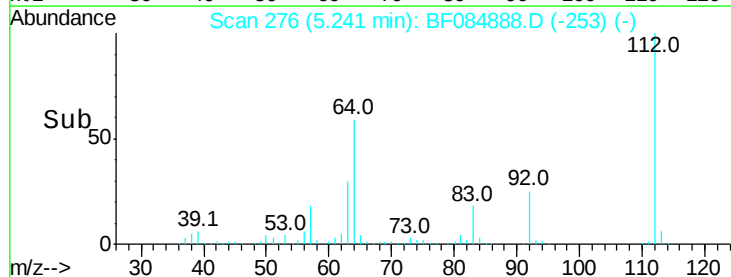
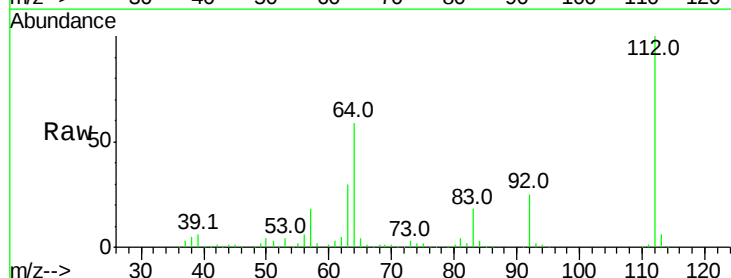
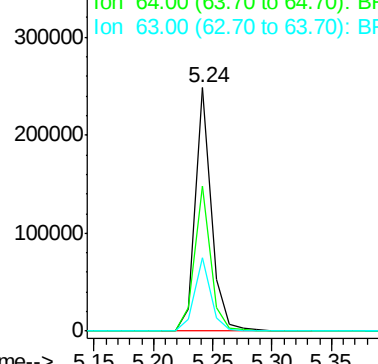
Delta R.T. -0.03 min

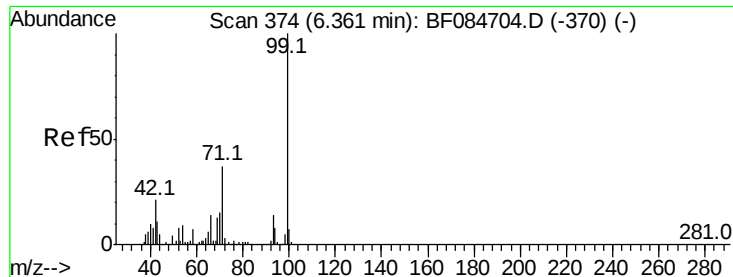
Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Tgt Ion:	112	Resp:	231857
Ion Ratio	Lower	Upper	
112	100		
64	59.4	36.6	55.0#
63	29.9	19.4	29.0#

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: 24.84 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

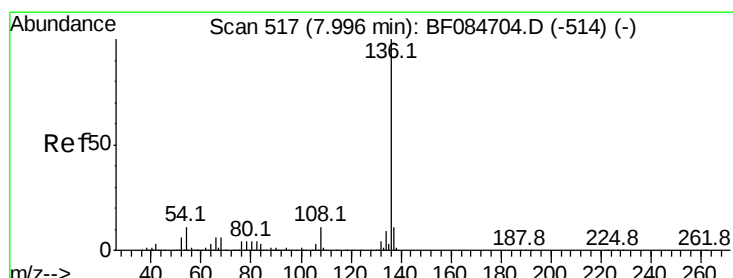
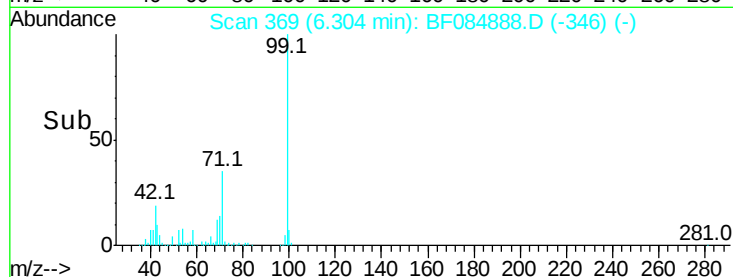
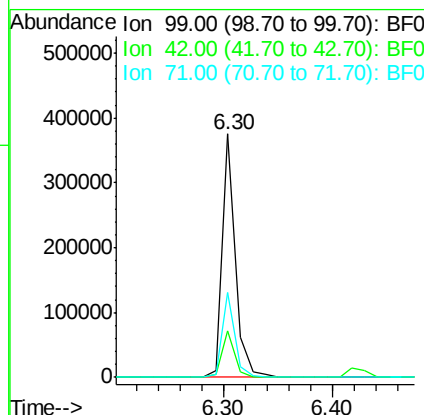
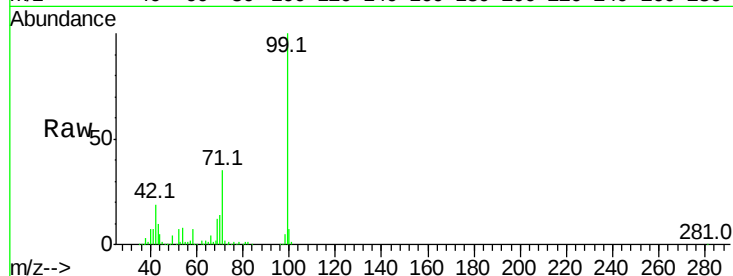
ClientSampleId :

S4-B006(10-12)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		318065		
42	18.9	12.8	19.2		
71	35.0	30.9	46.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

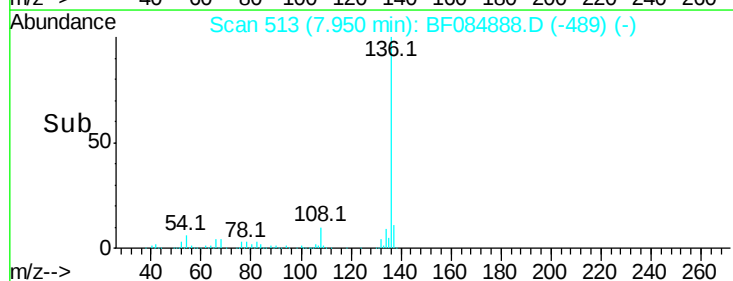
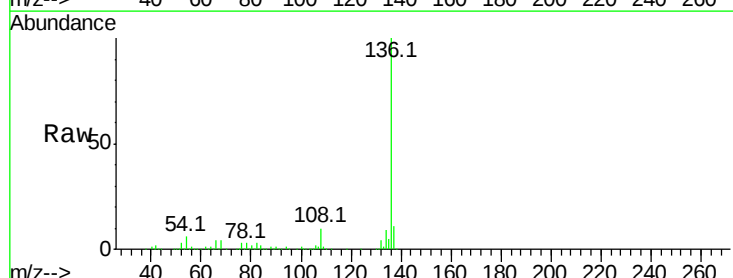
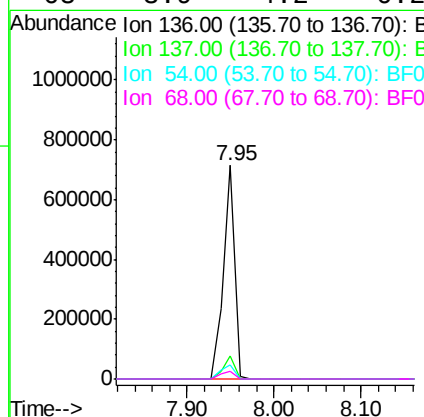
RT: 7.95 min Scan# 513

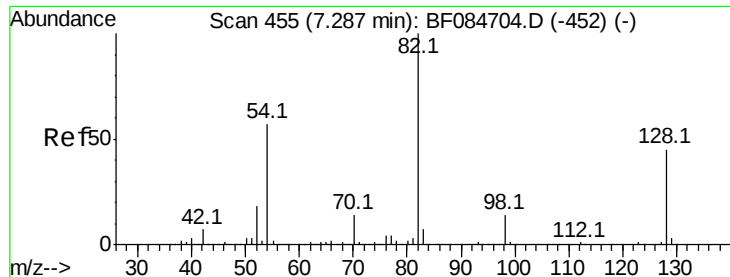
Delta R.T. -0.02 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		664475		
137	10.7	8.7	13.1		
54	6.5	5.8	8.8		
68	3.9	4.2	6.2#		





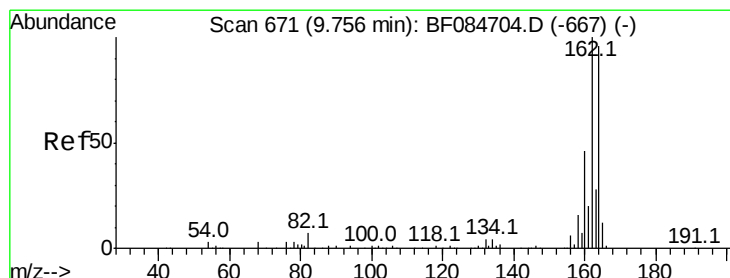
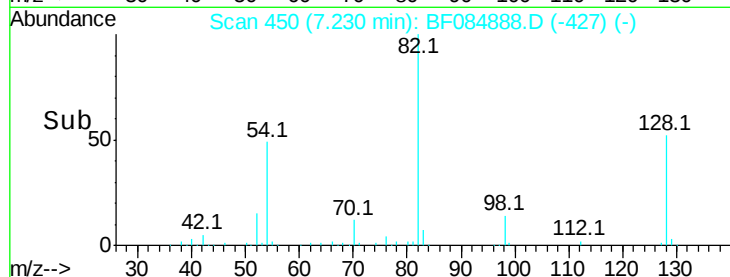
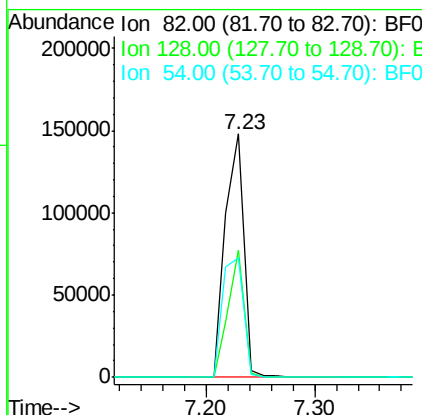
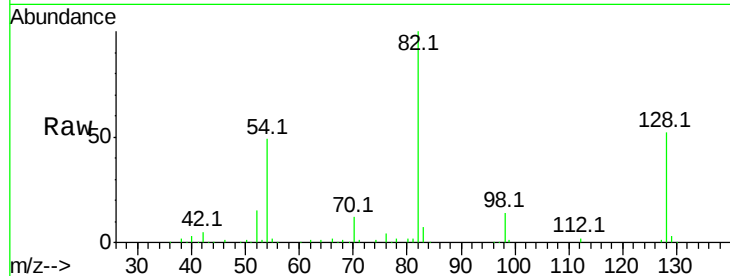
#23
 Nitrobenzene-d5
 Concen: 14.87 ng
 RT: 7.23 min Scan# 450
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tot Ion	Ratio	Lower	Upper
82	100		
128	52.2	34.6	51.8#
54	49.1	38.4	57.6

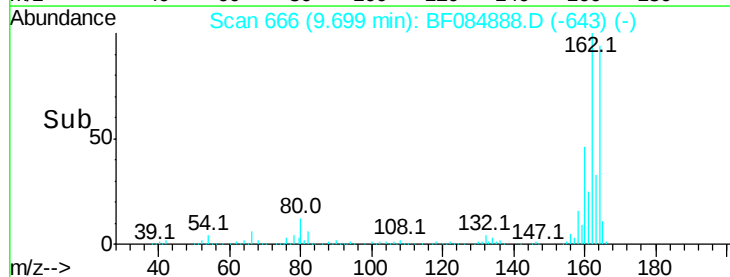
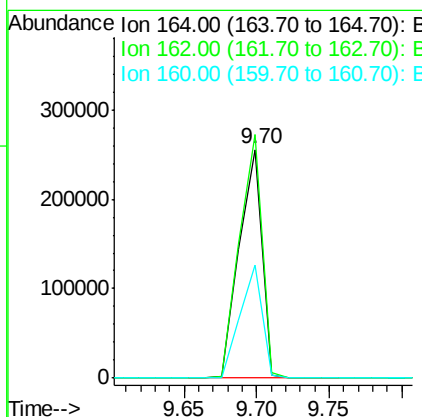
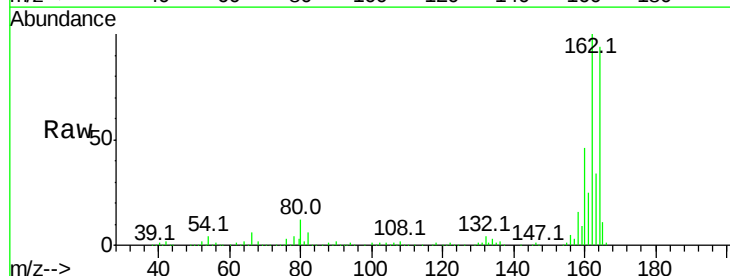
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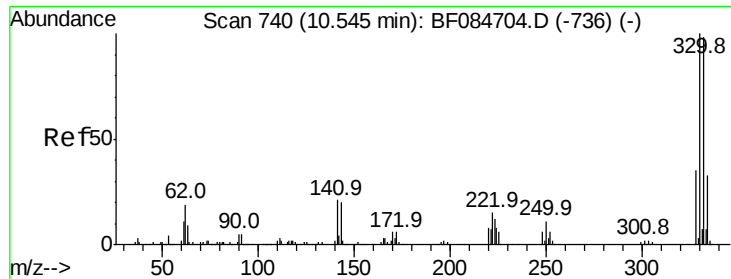
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 666
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	85.1	127.7
160	49.4	37.5	56.3





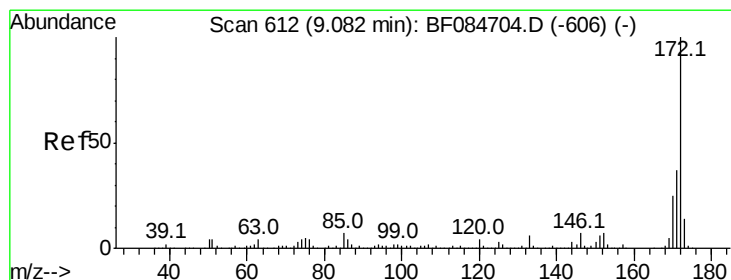
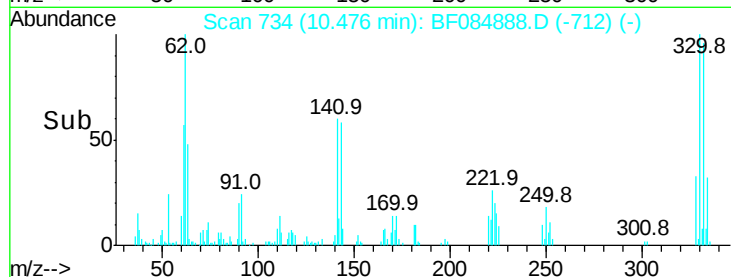
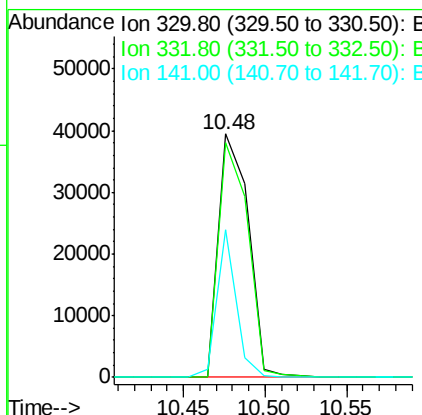
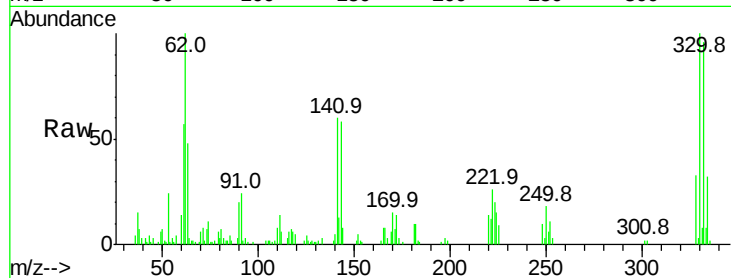
#41
 2,4,6-Tribromophenol
 Concen: 17.30 ng
 RT: 10.48 min Scan# 734
 Delta R.T. -0.05 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	50050		
332	95.1	76.6	114.8	
141	39.3	27.8	41.6	

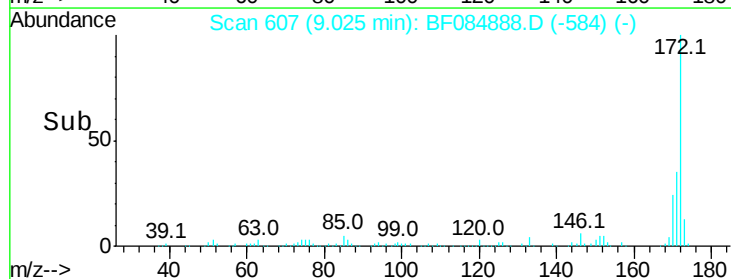
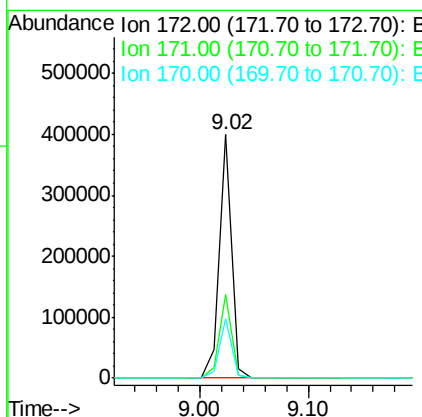
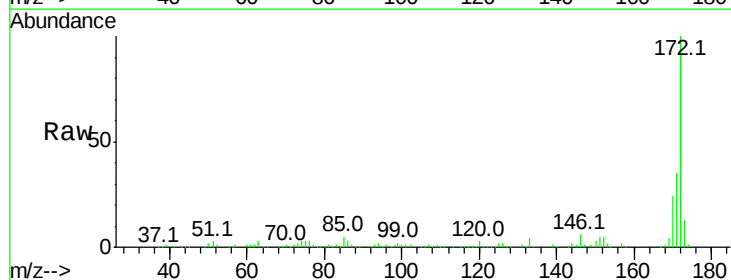
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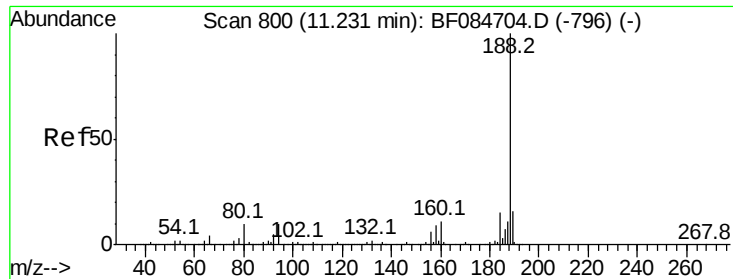
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#44
 2-Fluorobiphenyl
 Concen: 14.37 ng
 RT: 9.02 min Scan# 607
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	318961		
171	34.6	28.9	43.3	
170	24.1	18.6	27.8	





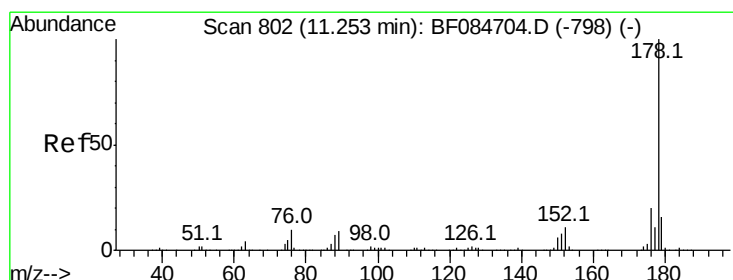
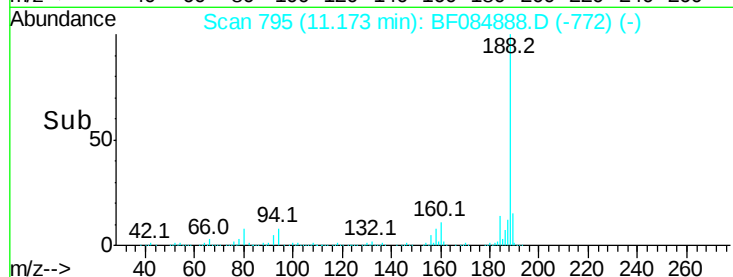
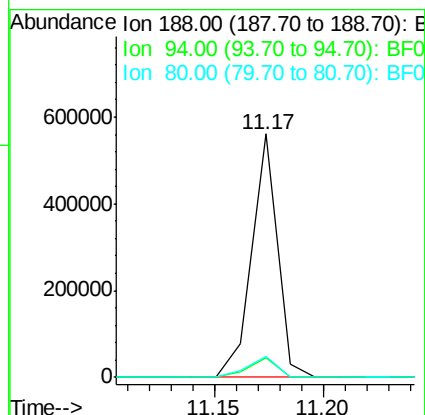
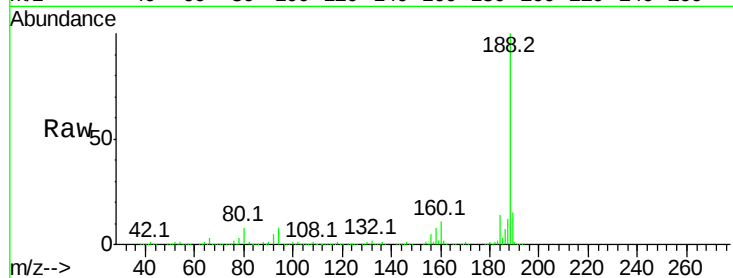
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 795
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Instrument :
BNA_F
ClientSampleId :
S4-B006(10-12)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.2	9.0	13.4#
80	8.4	9.6	14.4#

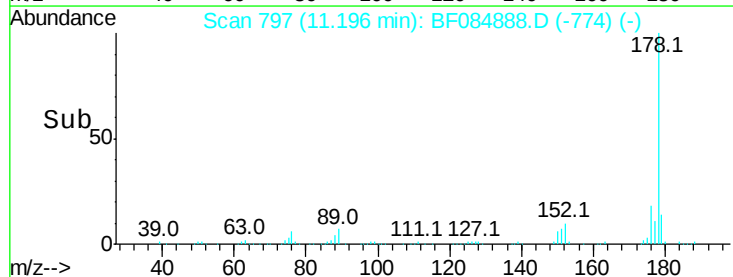
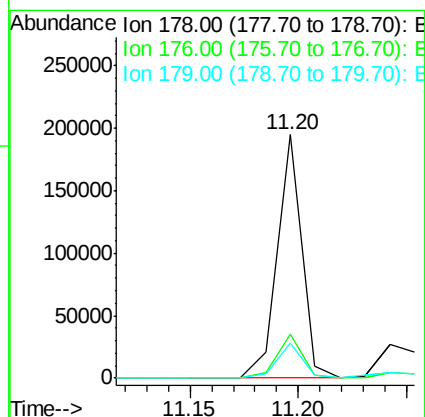
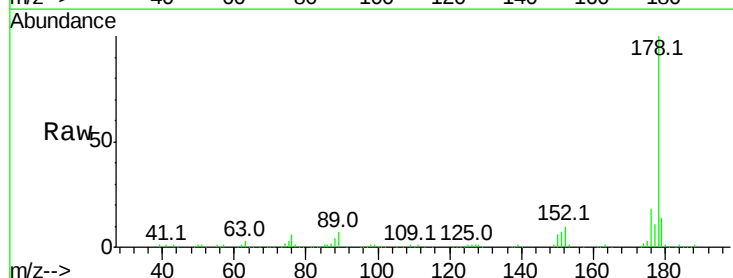
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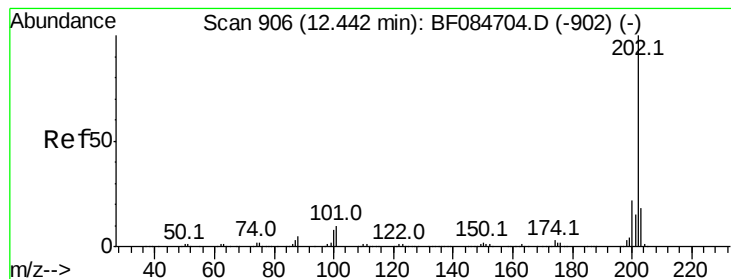
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#70
Phenanthrene
Concen: 6.08 ng
RT: 11.20 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	17.8	15.3	22.9
179	14.3	12.0	18.0





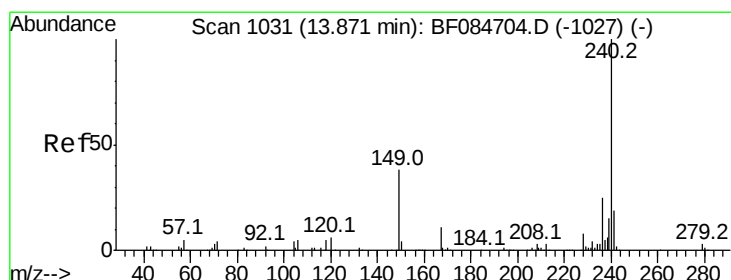
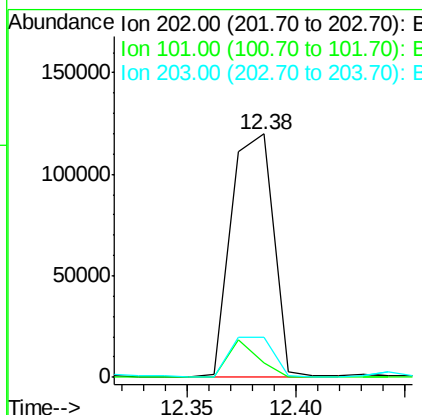
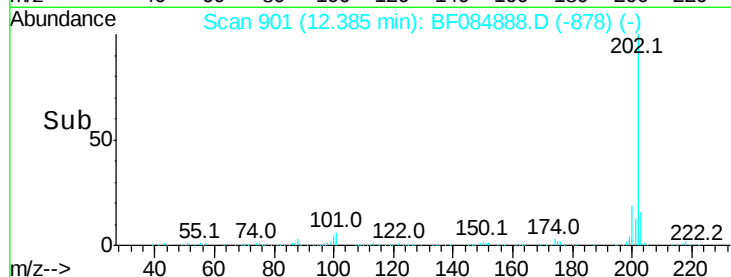
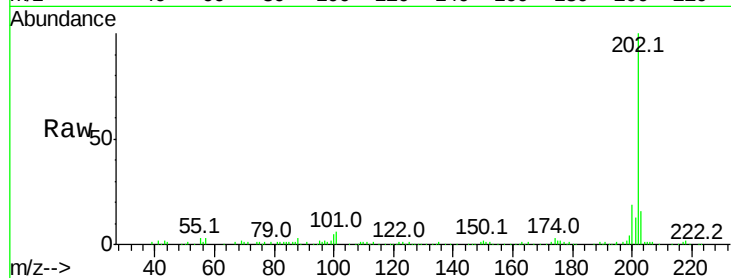
#74
 Fluoranthene
 Concen: 6.29 ng
 RT: 12.38 min Scan# 901
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	6.2	0.0	32.8
203	16.4	0.0	37.9

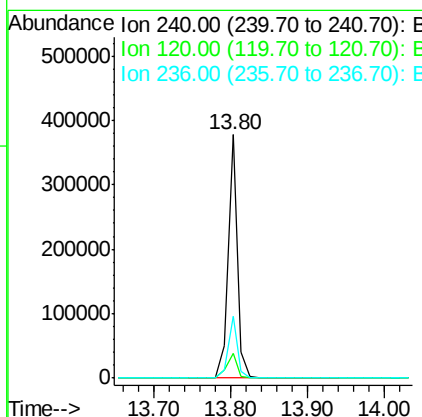
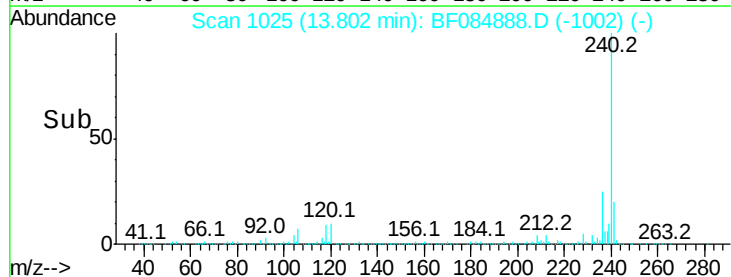
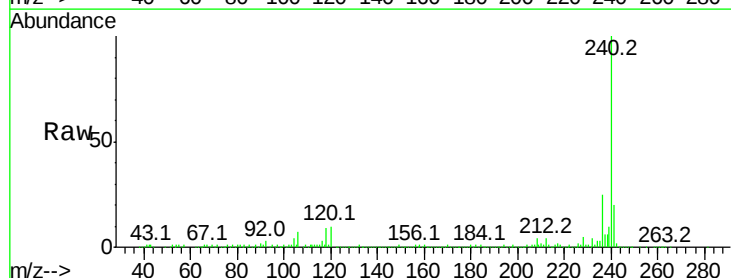
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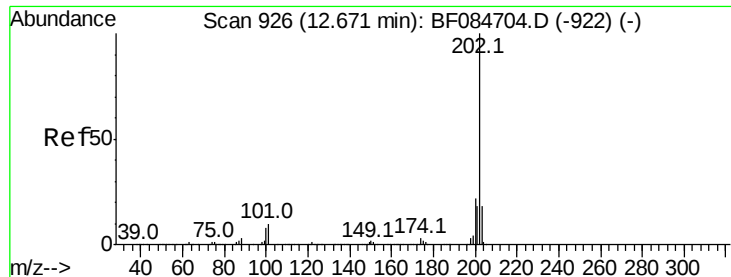
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.80 min Scan# 1025
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.3	9.5	14.3
236	25.2	20.6	31.0





#77

Pvrene

Concen: 5.99 ng

RT: 12.60 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

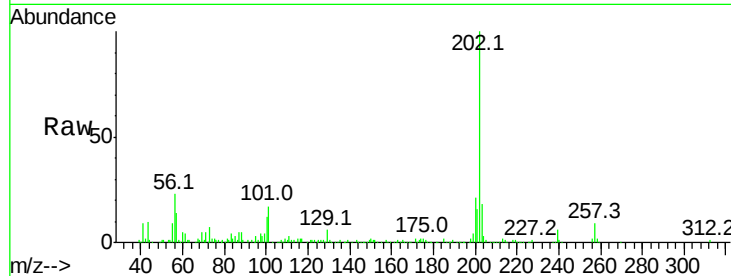
ClientSampleId :

S4-B006(10-12)

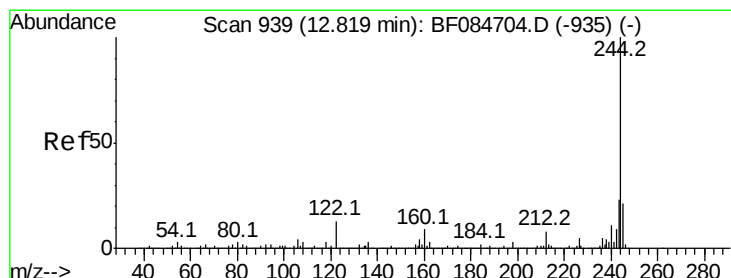
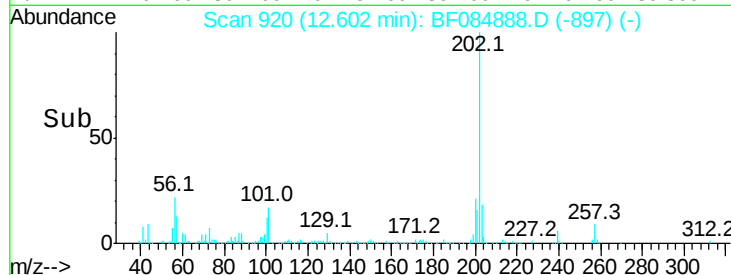
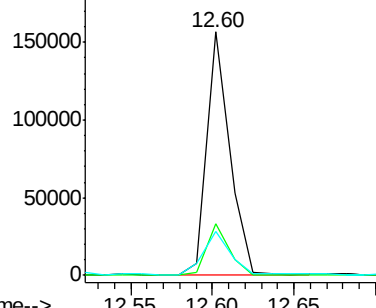
Tot Ion:	202	Resp:	150109
Ion Ratio		Lower	Upper
202	100		
200	21.1	17.2	25.8
203	18.1	14.3	21.5

Manual Integrations
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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: 12.13 ng

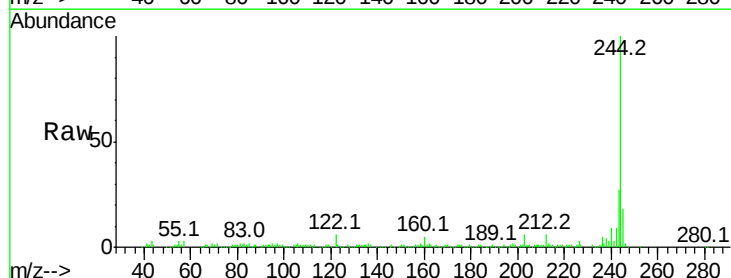
RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

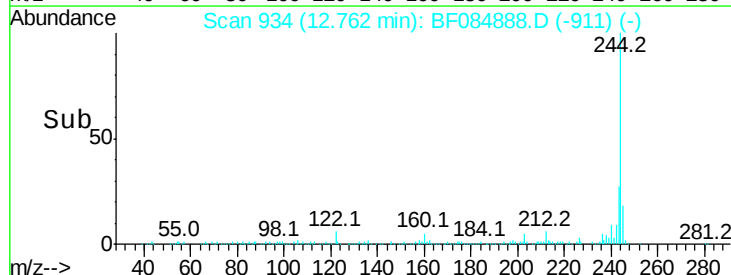
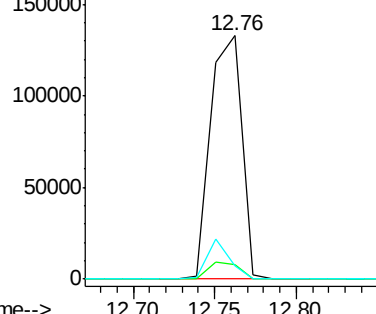
Lab File: BF084888.D

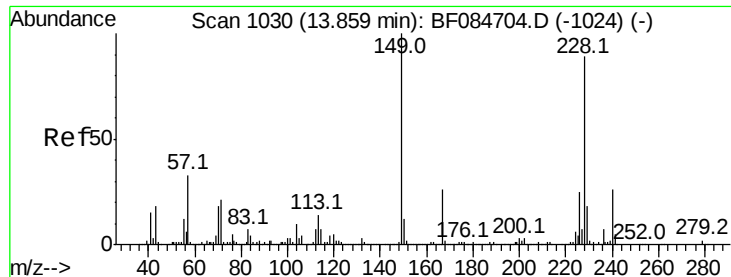
Acq: 6 Feb 2016 4:22

Tgt Ion:	244	Resp:	175175
Ion Ratio		Lower	Upper
244	100		
212	5.8	5.7	8.5
122	5.6	7.4	11.0#



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





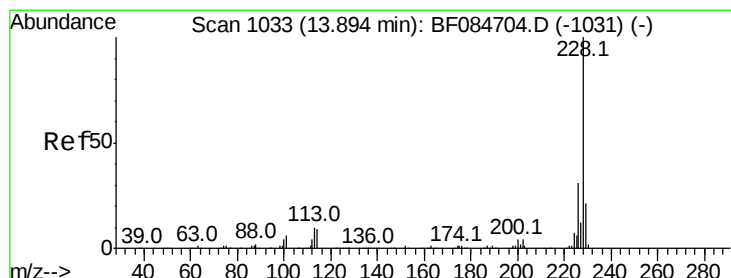
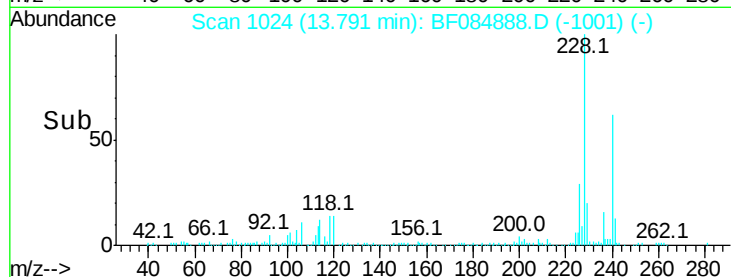
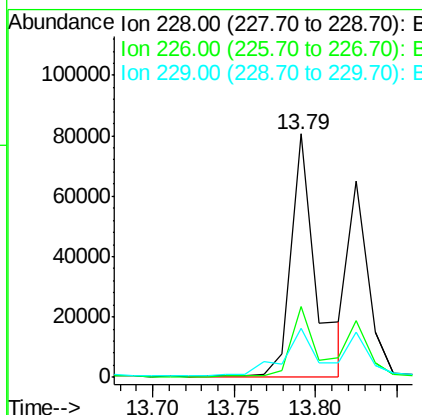
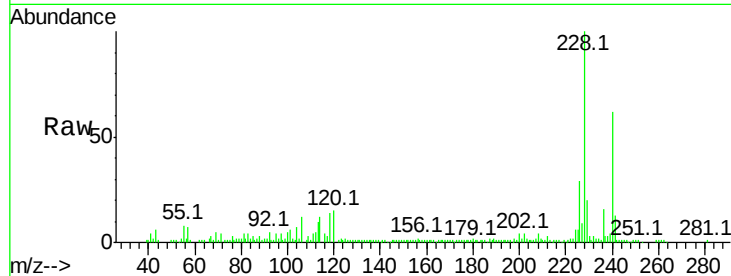
#80
Benzo(a)anthracene
Concen: 4.32 ng
RT: 13.79 min Scan# 1024
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Instrument :
BNA_F
ClientSampleId :
S4-B006(10-12)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	21.8	32.6
229	20.3	15.8	23.8

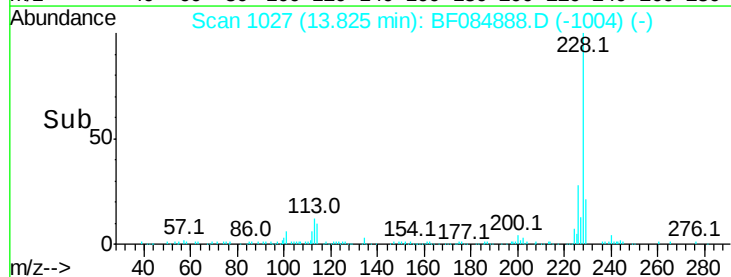
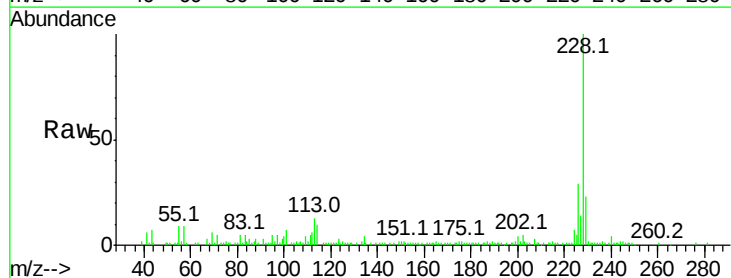
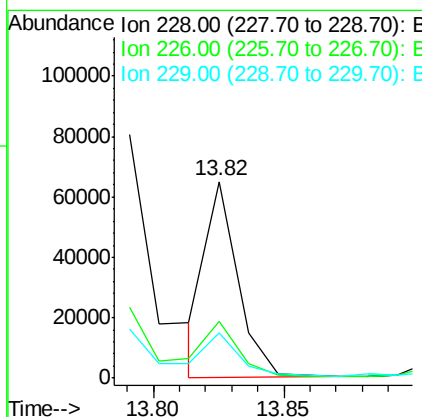
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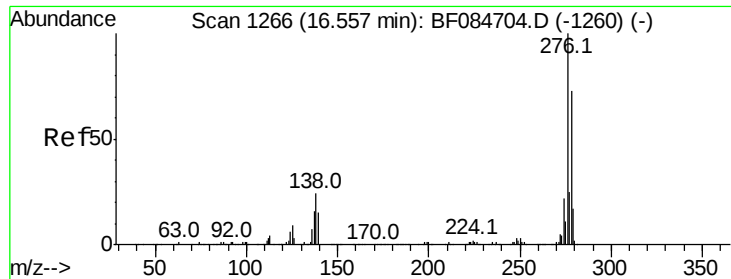
UMANGI
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#82
Chrysene
Concen: 2.84 ng
RT: 13.82 min Scan# 1027
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	24.3	36.5
229	23.0	16.1	24.1





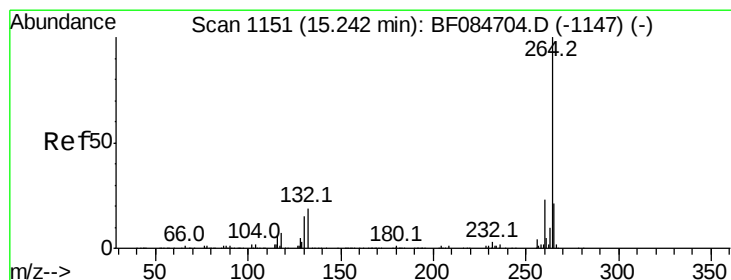
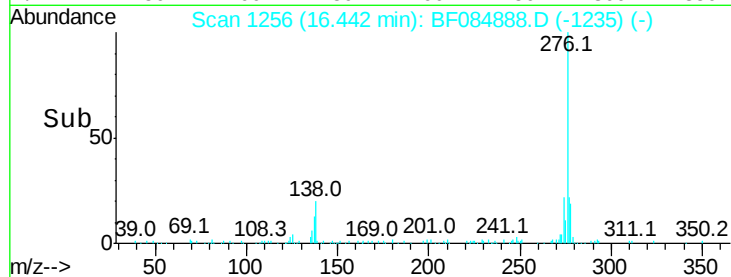
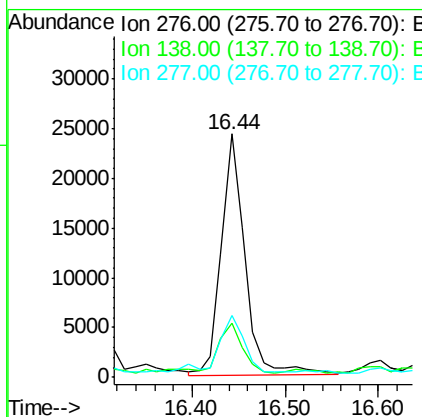
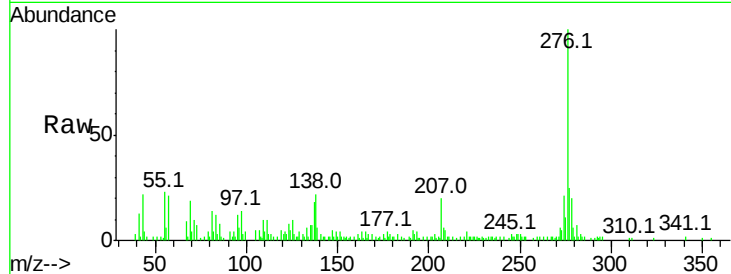
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.82 ng
 RT: 16.44 min Scan# 1256
 Delta R.T. -0.06 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.2	20.6	30.8
277	25.0	20.1	30.1

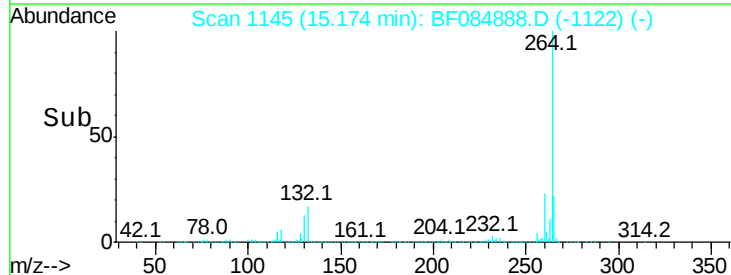
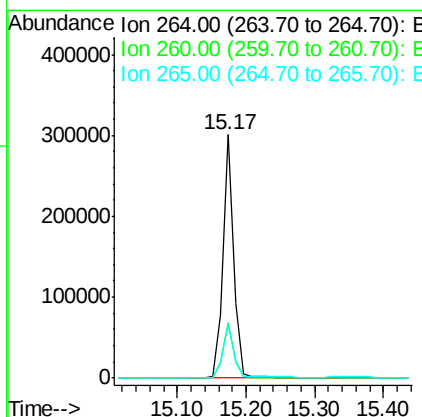
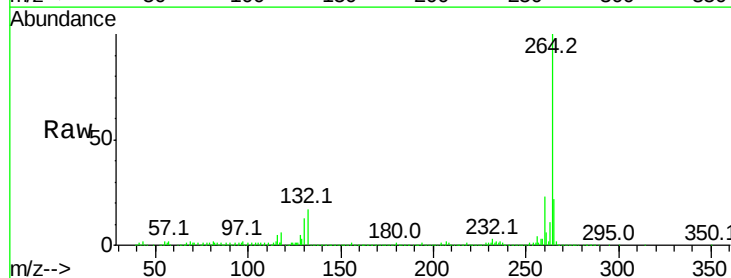
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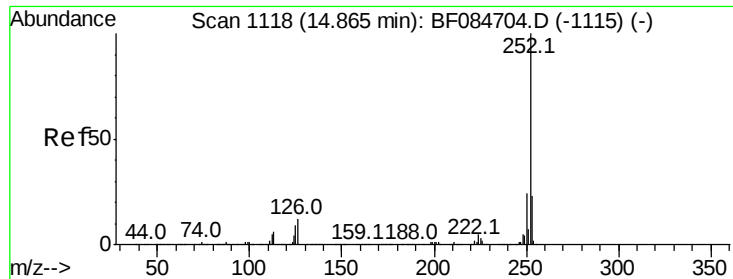
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.17 min Scan# 1145
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.4	29.2
265	22.2	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 3.60 ng/mL

RT: 14.80 min Scan# 1112

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

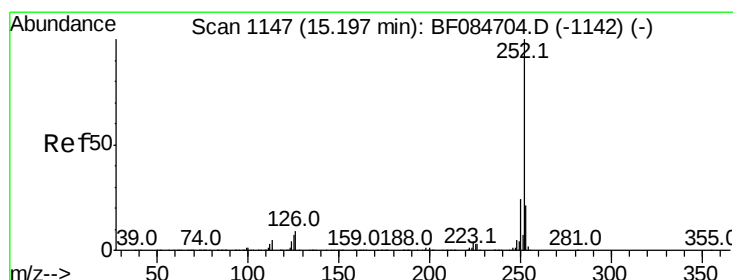
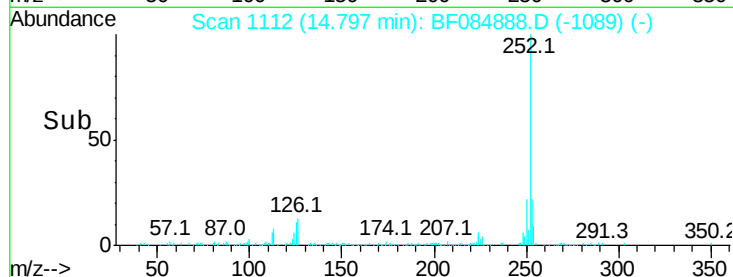
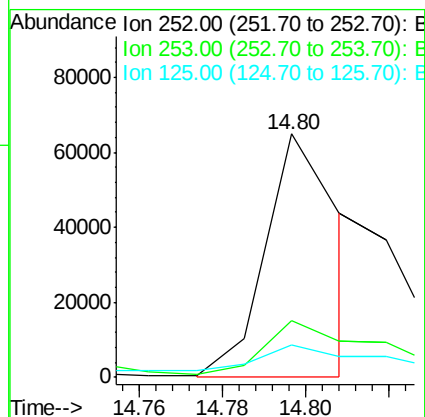
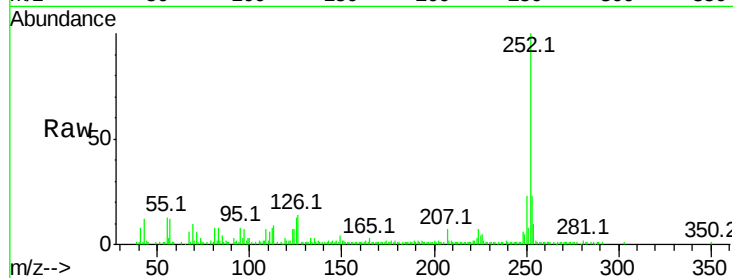
ClientSampleId :

S4-B006(10-12)

Tot Ion:	252	Resp:	81781
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.3	25.9
125	13.2	6.5	9.7#

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 3.51 ng/mL

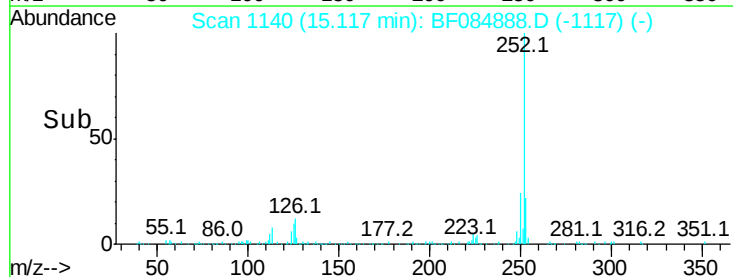
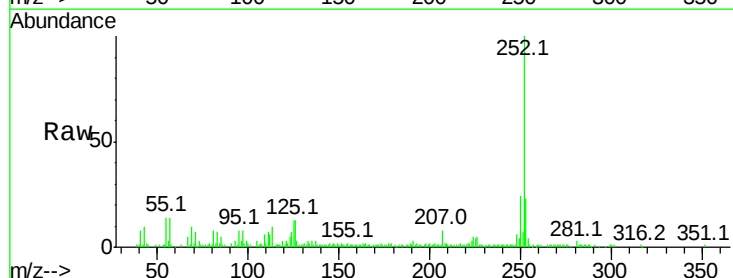
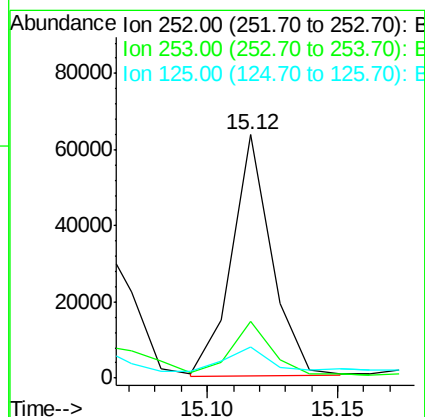
RT: 15.12 min Scan# 1140

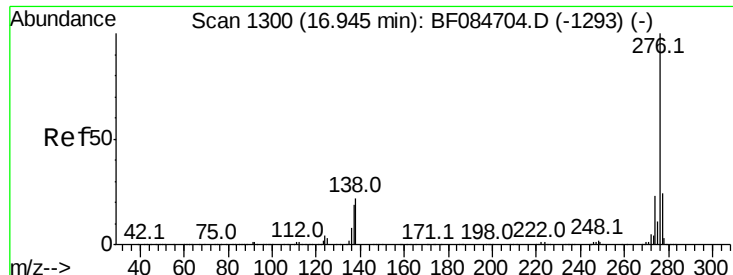
Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Tgt Ion:	252	Resp:	67797
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.3	25.9
125	12.6	7.0	10.4#





#91
 Benzo(a,h,i)perylene
 Concen: 2.74 ng
 RT: 16.82 min Scan# 1289
 Delta R.T. -0.07 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tot Ion:	276	Resp:	44935
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.8	28.2
138	23.8	17.8	26.6

Manual Integrations
 APPROVED

UMANGI
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