

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
 Data File : BF083856.D
 Acq On : 16 Dec 2015 18:57
 Operator : UM/SJ
 Sample : G4836-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

Manual Integrations
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 12/17/2015 5:34:14 PM

Quant Time: Dec 17 04:12:43 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	87345	20.00	ng	-0.03
21) Naphthalene-d8	8.18	136	353084	20.00	ng	-0.03
38) Acenaphthene-d10	9.93	164	176408	20.00	ng	-0.03
63) Phenanthrene-d10	11.41	188	307628	20.00	ng	-0.03
75) Chrysene-d12	14.04	240	202912	20.00	ng	-0.03
86) Perylene-d12	15.48	264	168278	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	438816	81.05	ng	-0.02
7) Phenol-d6	6.52	99	614664	89.65	ng	-0.02
23) Nitrobenzene-d5	7.45	82	410991	65.12	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	39915	22.21	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	876159	68.77	ng	-0.03
78) Terphenyl-d14	12.99	244	668453	70.86	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.64	163	149372	10.86	ng	99
51) Acenaphthene	9.96	154	23649	2.01	ng	98
70) Phenanthrene	11.44	178	239943	14.68	ng	98
71) Anthracene	11.48	178	75555	4.45	ng	98
74) Fluoranthene	12.61	202	273974	16.22	ng	96
77) Pyrene	12.84	202	238597	14.88	ng	99
79) Butylbenzylphthalate	13.46	149	14460	2.10	ng	# 79
80) Benzo(a)anthracene	14.03	228	116286	10.08	ng	99
82) Chrysene	14.07	228	76319	6.78	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	49024	4.44	ng	# 100
87) Benzo(b)fluoranthene	15.07	252	100552m	9.37	ng	
88) Benzo(k)fluoranthene	15.08	252	28105m	2.89	ng	
89) Benzo(a)pyrene	15.41	252	68625	7.16	ng	# 94
91) Benzo(a,h,i)perylene	17.32	276	47545	4.86	ng	97

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

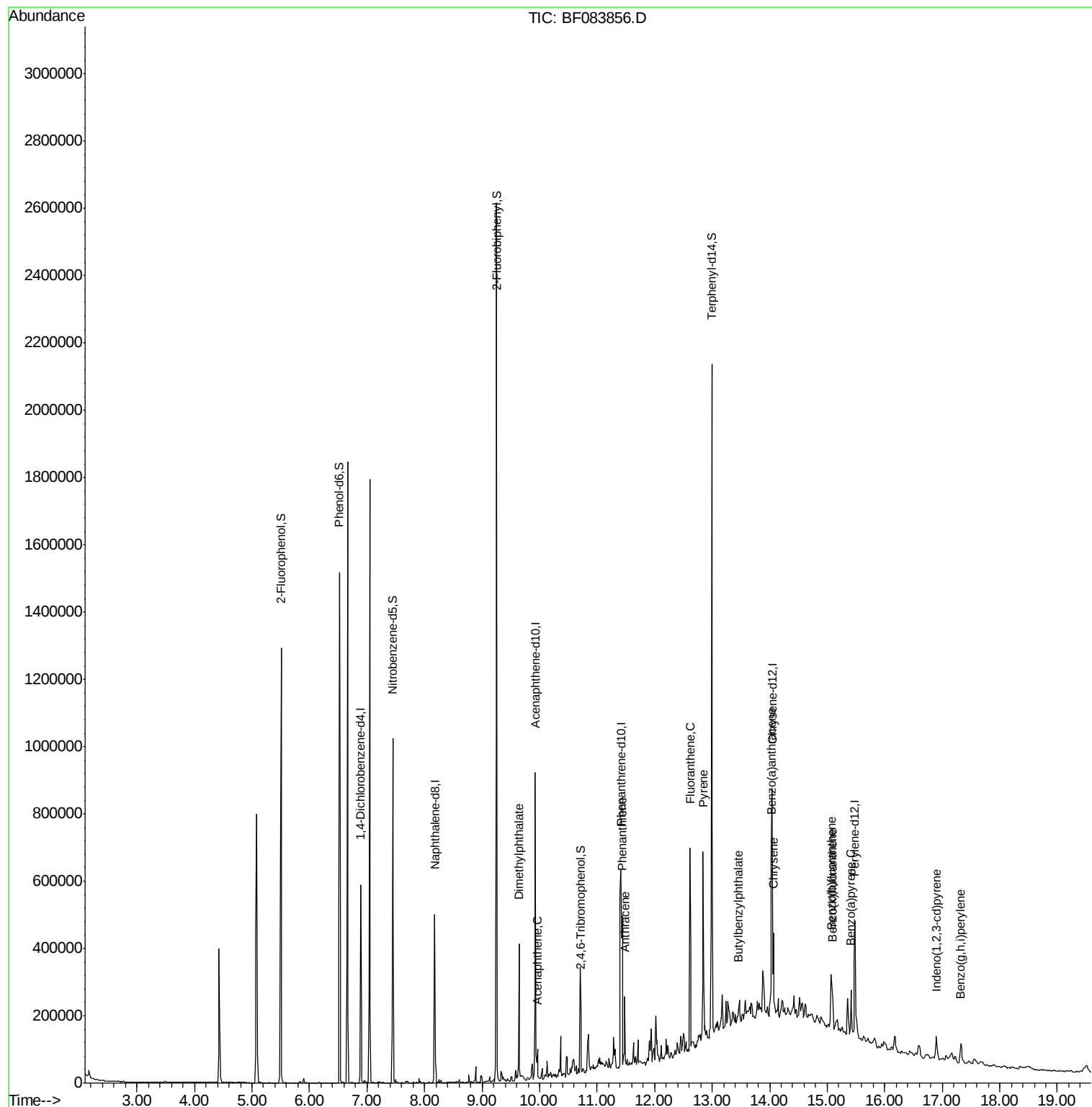
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

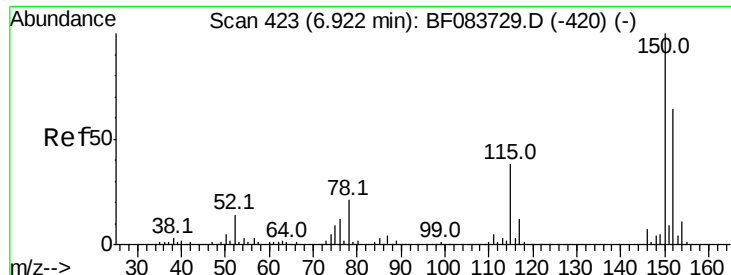
Instrument :
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Quant Time: Dec 17 04:12:43 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 14 01:30:12 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

Tot Ion:152 Resp: 87345

Ion Ratio Lower Upper

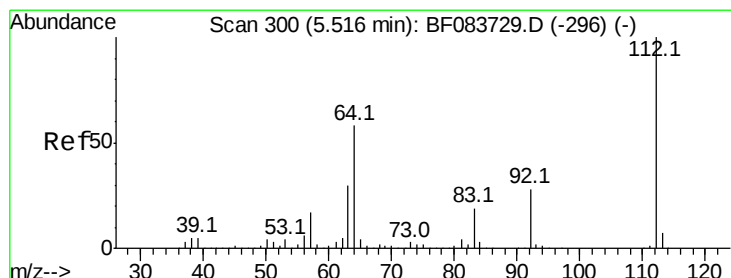
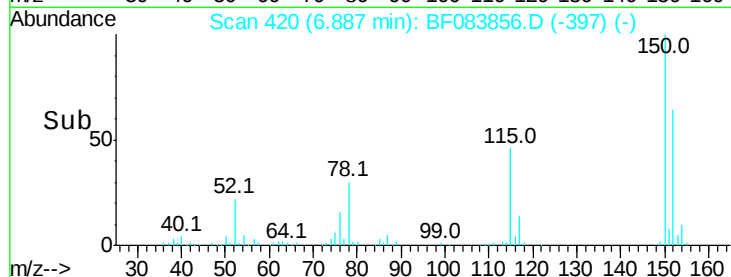
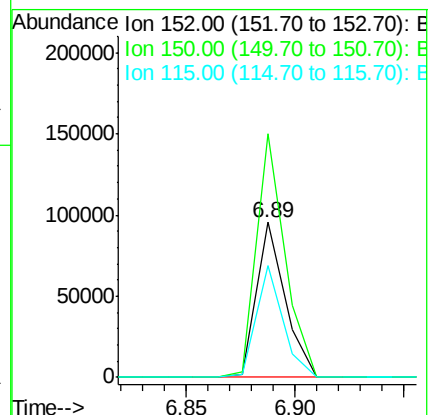
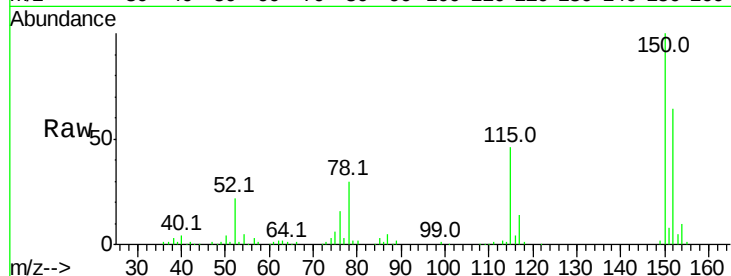
152 100

150 157.0 126.5 189.7

115 71.8 52.3 78.5

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#5

2-Fluorophenol

Concen: 81.05 ng

RT: 5.50 min Scan# 299

Delta R.T. -0.02 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

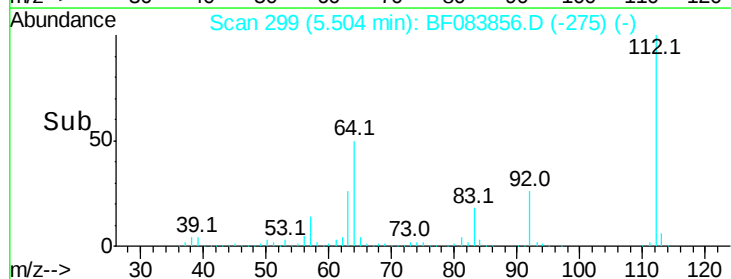
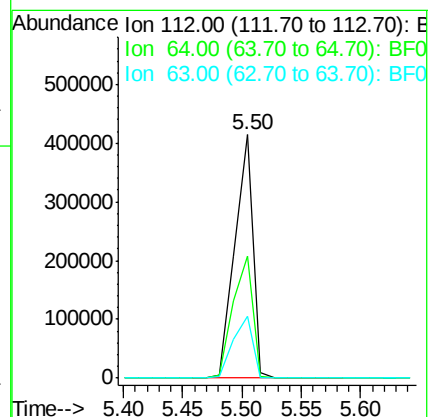
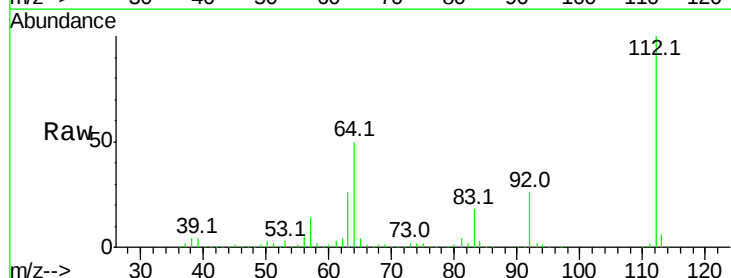
Tgt Ion:112 Resp: 438816

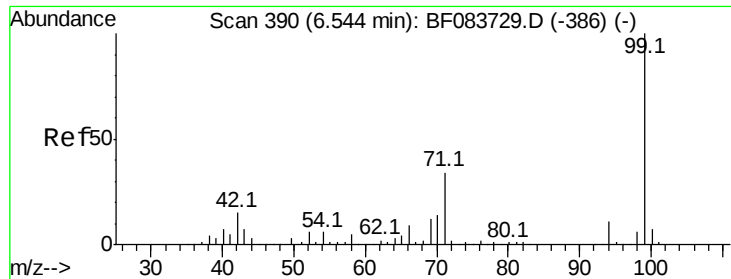
Ion Ratio Lower Upper

112 100

64 50.3 50.5 75.7#

63 25.5 25.8 38.6#





#7

Phenol-d6

Concen: 89.65 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

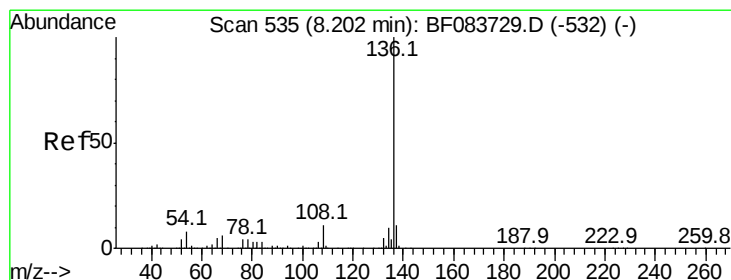
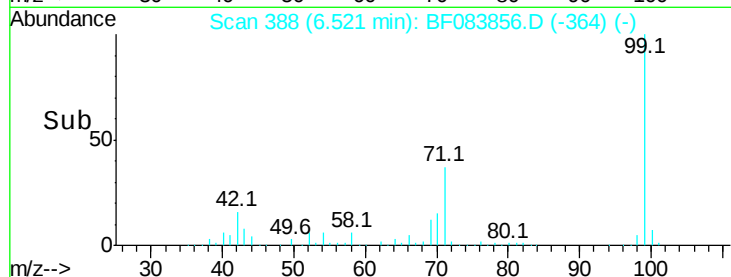
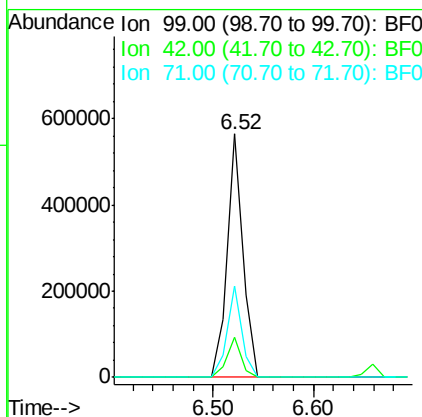
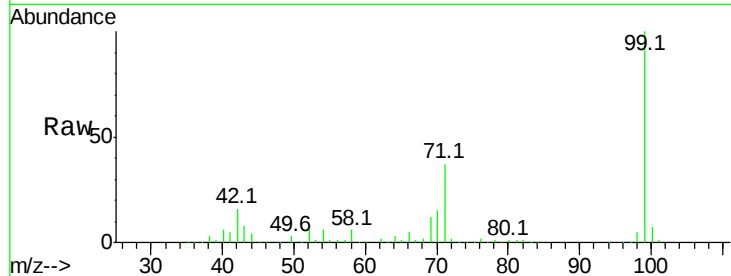
ClientSampleId :

LIBERTY-SF-003

Tot Ion:	99	Resp:	614664
Ion Ratio	Lower	Upper	
99	100		
42	16.4	17.3	25.9#
71	37.4	26.6	40.0

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#21

Naphthalene-d8

Concen: 20.00 ng

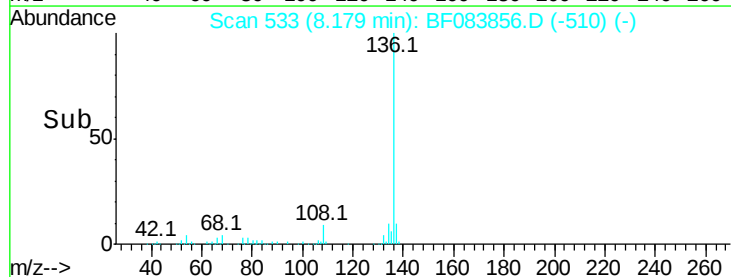
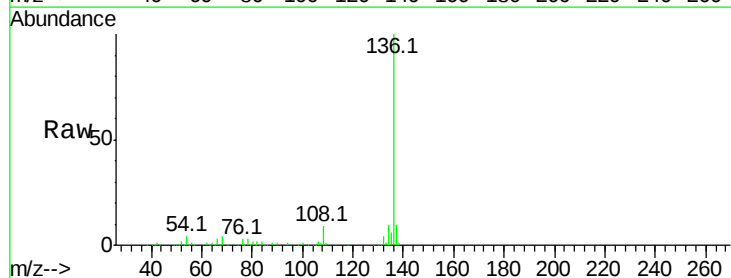
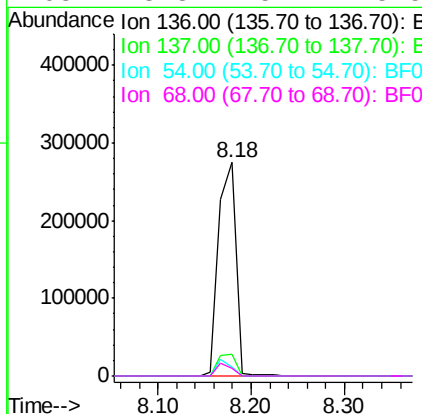
RT: 8.18 min Scan# 533

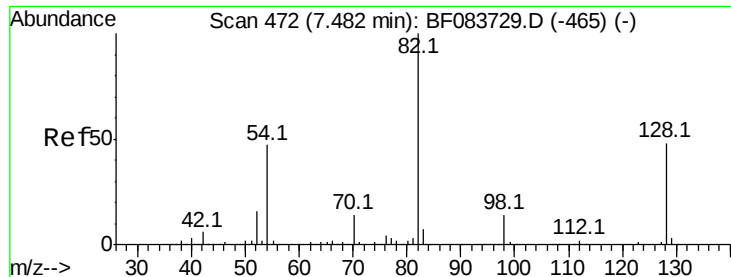
Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Tgt Ion:	136	Resp:	353084
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.7	13.1
54	4.3	7.8	11.6#
68	3.8	5.7	8.5#





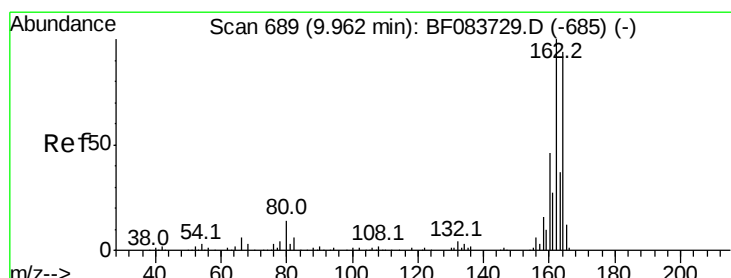
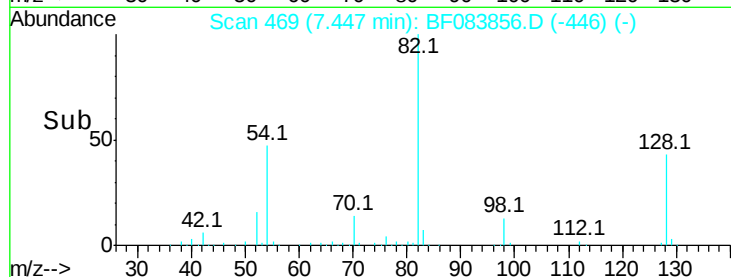
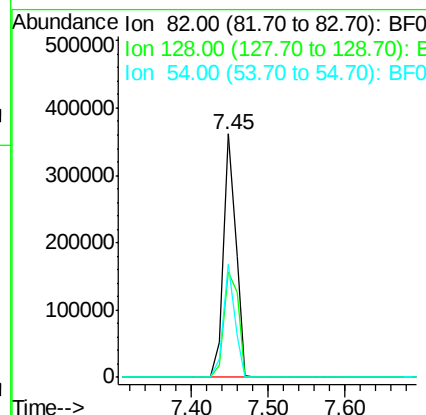
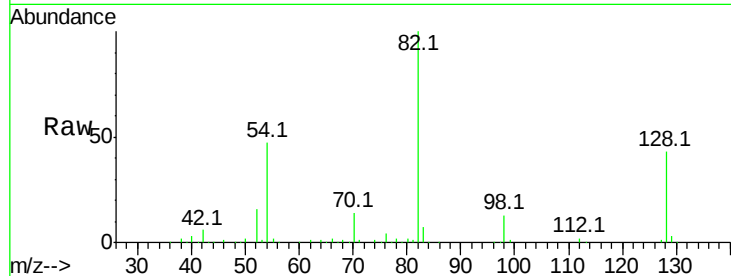
#23
 Nitrobenzene-d5
 Concen: 65.12 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Instrument :
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 ClientSampleId :
 LIBERTY-SF-003

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.4	30.7	46.1	
54	46.5	42.5	63.7	

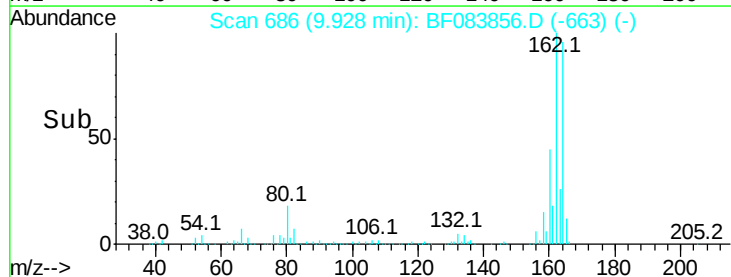
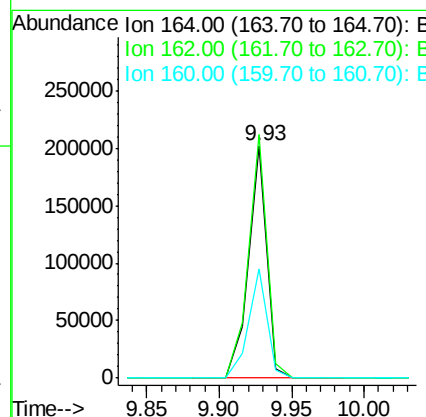
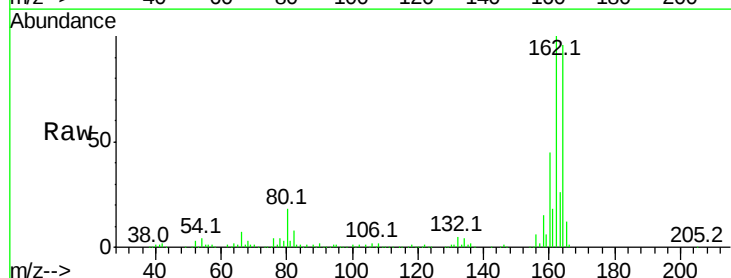
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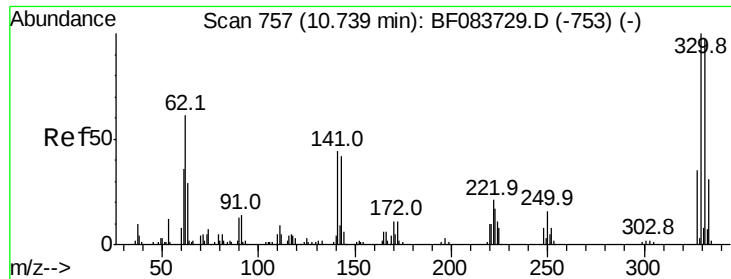
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.7	78.8	118.2	
160	46.7	33.4	50.2	





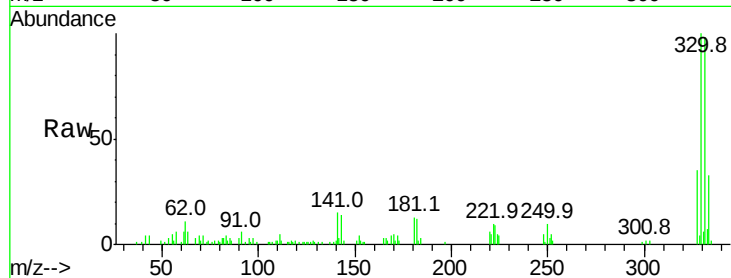
#41
 2,4,6-Tribromophenol
 Concen: 22.21 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

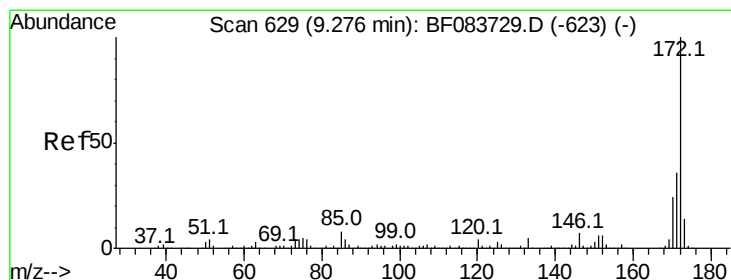
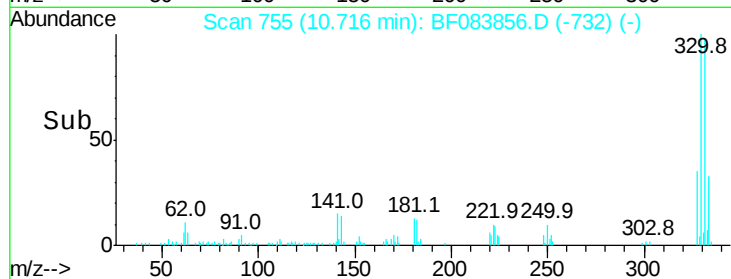
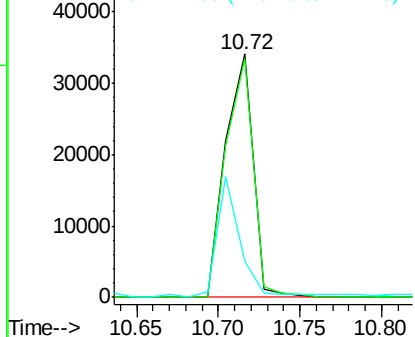
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	97.9	0.0	0.0#
141	45.0	0.0	0.0#

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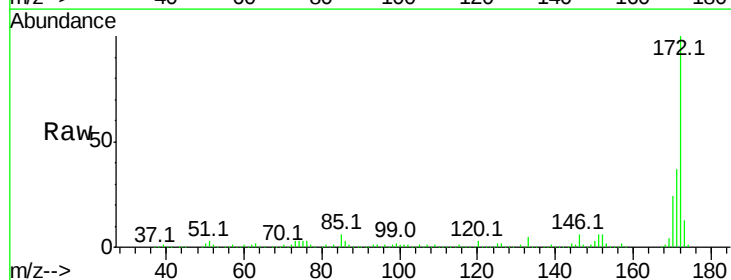


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

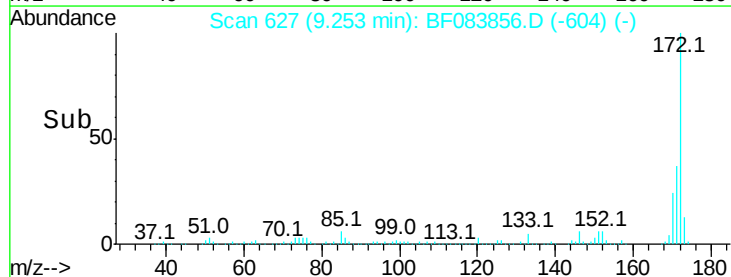
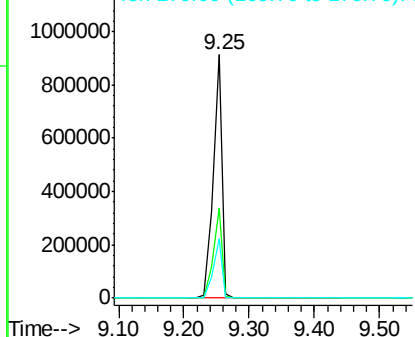


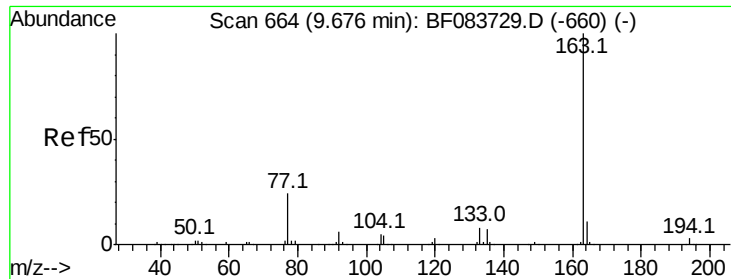
#44
 2-Fluorobiphenyl
 Concen: 68.77 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	37.0	28.6	42.8
170	24.1	19.4	29.0



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





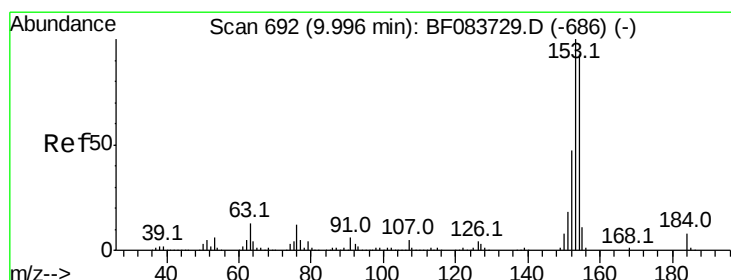
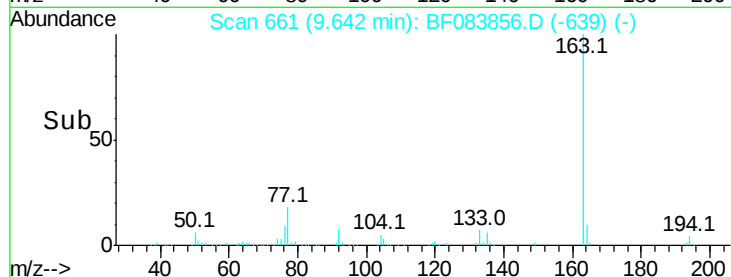
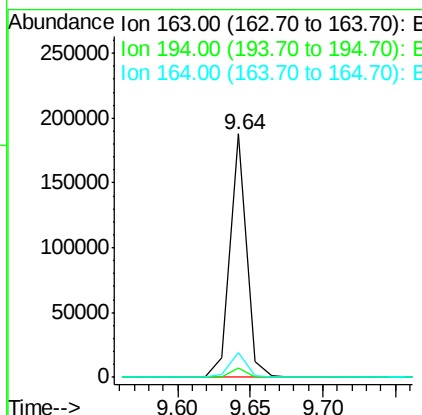
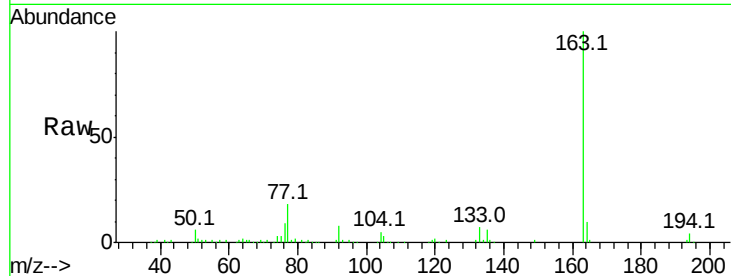
#49
Dimethylphthalate
Concen: 10.86 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.05 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
163	100	149372		
194	3.6		2.8	4.2
164	10.1		8.6	13.0

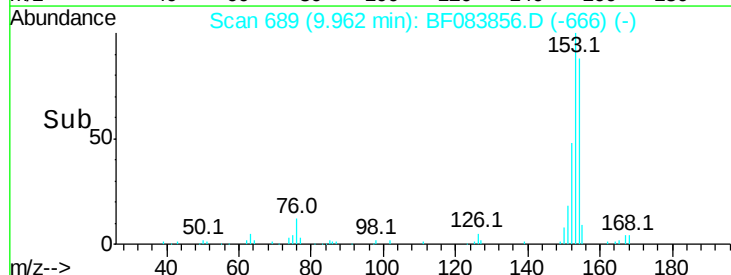
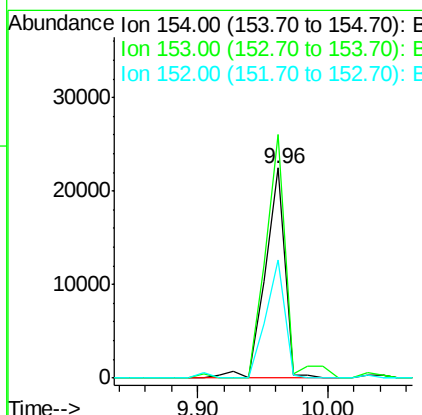
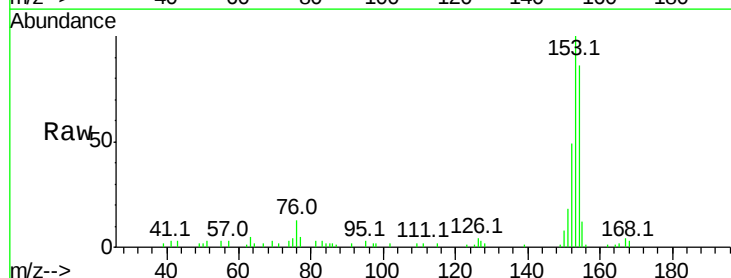
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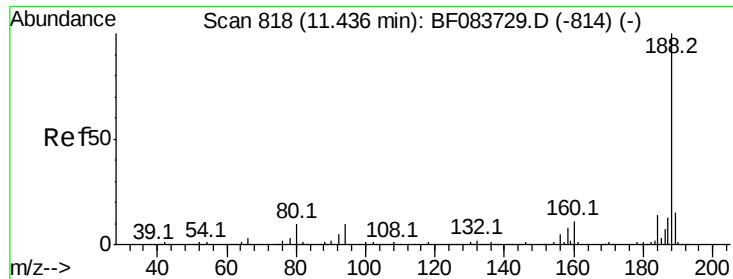
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#51
Acenaphthene
Concen: 2.01 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.03 min
Lab File: BF083856.D
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Tgt Ion	Ratio	Resp	Lower	Upper
154	100	23649		
153	116.0		91.4	137.0
152	56.5		43.4	65.2





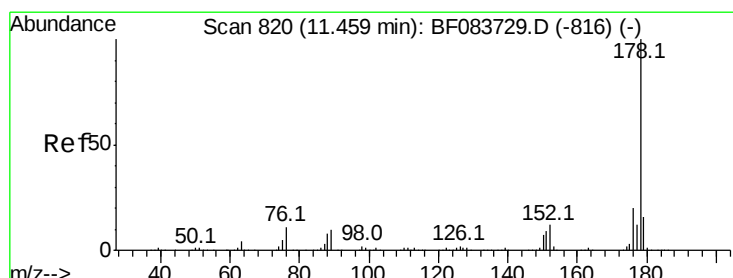
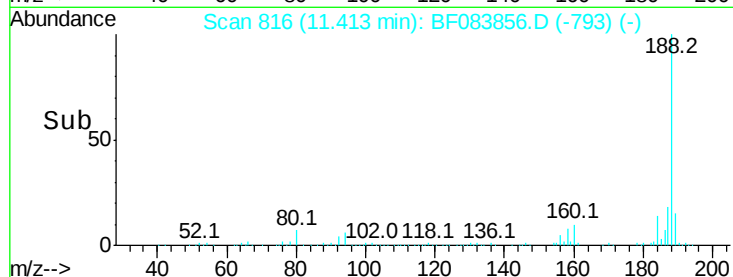
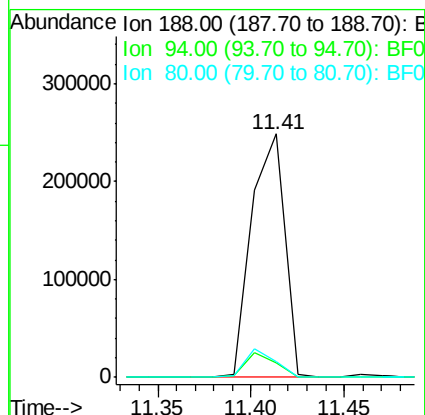
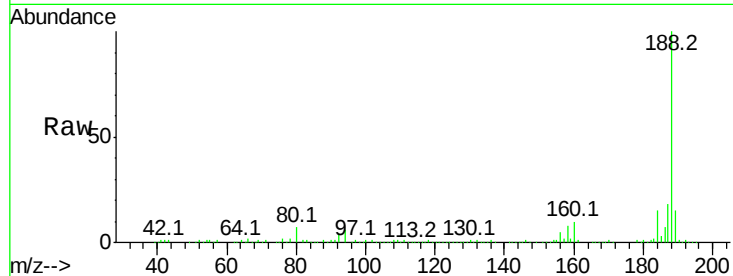
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
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LIBERTY-SF-003

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	6.0	9.4	14.2#
80	6.6	10.6	16.0#

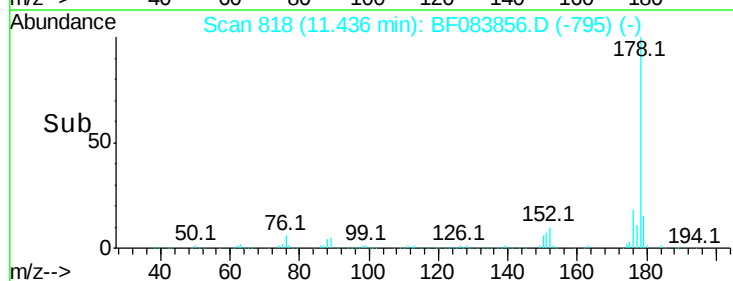
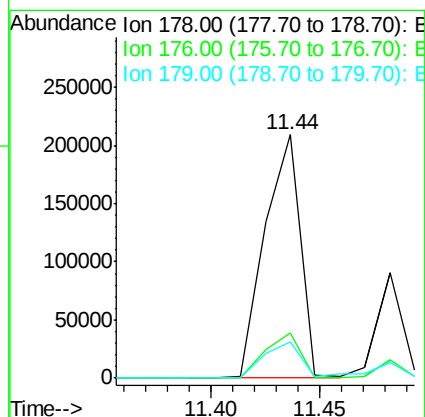
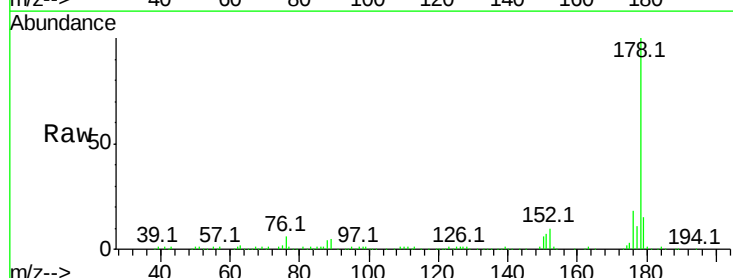
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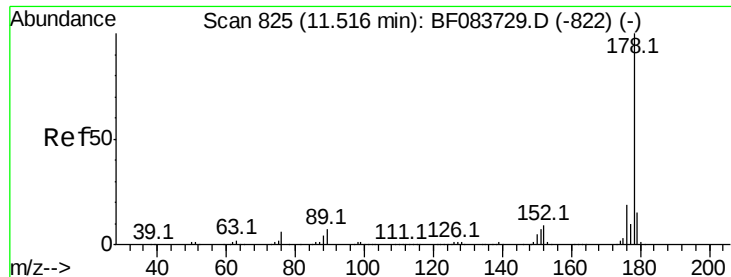
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#70
Phenanthrene
Concen: 14.68 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.4	15.7	23.5
179	14.7	12.2	18.4





#71

Anthracene

Concen: 4.45 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

Tot Ion:178 Resp: 75555

Ion Ratio Lower Upper

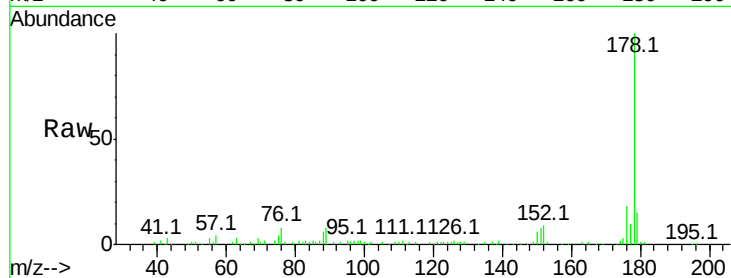
178 100

176 17.8 15.2 22.8

179 15.5 12.6 18.8

Manual Integrations
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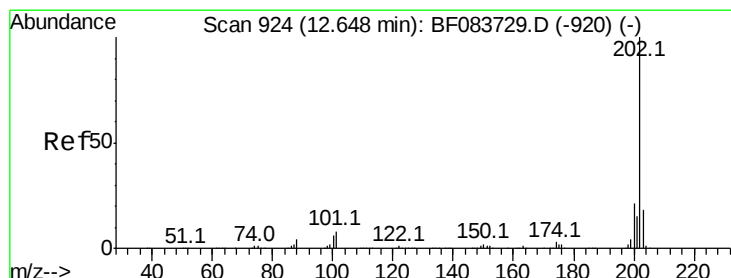
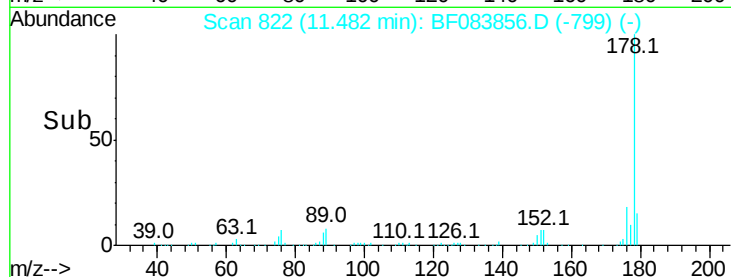
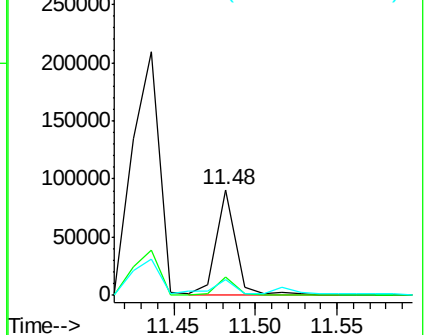
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 16.22 ng

RT: 12.61 min Scan# 921

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

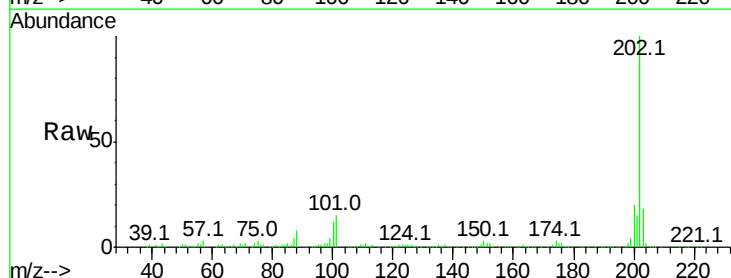
Tgt Ion:202 Resp: 273974

Ion Ratio Lower Upper

202 100

101 15.0 0.0 31.5

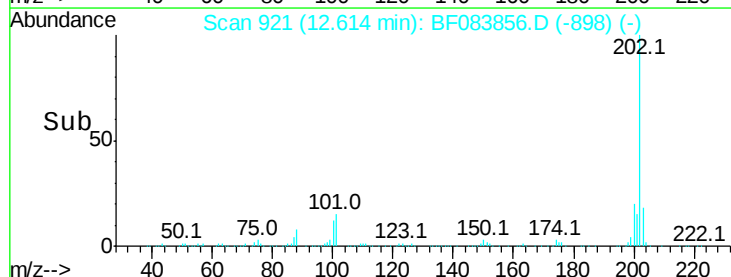
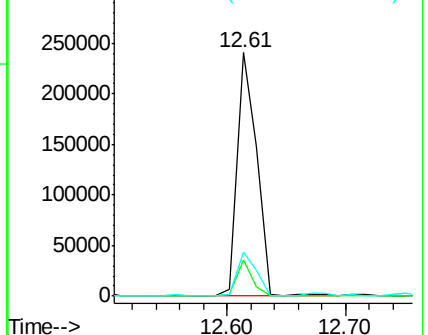
203 17.8 0.0 37.6

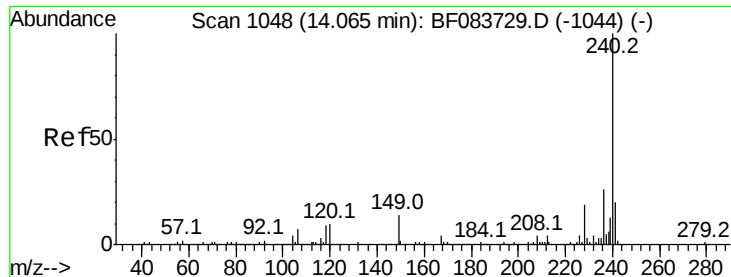


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

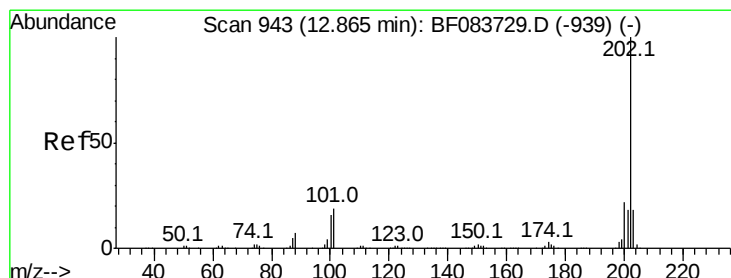
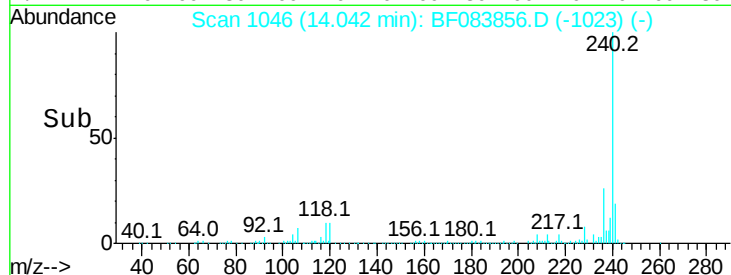
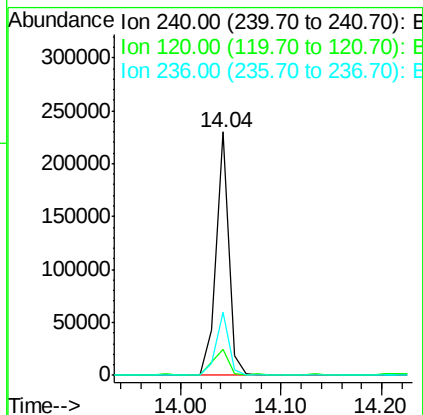
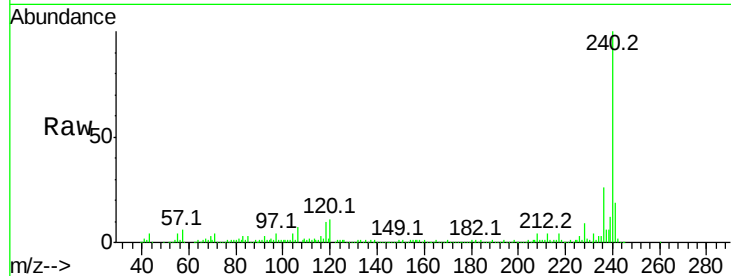
ClientSampleId :

LIBERTY-SF-003

Tot Ion:	240	Resp:	202912
Ion Ratio	Lower	Upper	
240	100		
120	10.7	8.1	12.1
236	26.0	20.8	31.2

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#77

Pyrene

Concen: 14.88 ng

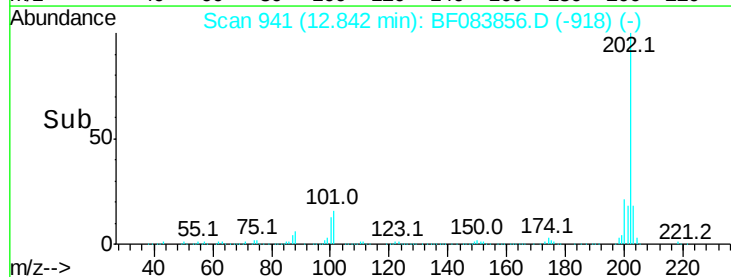
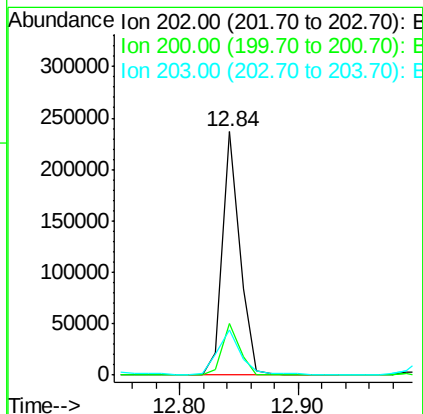
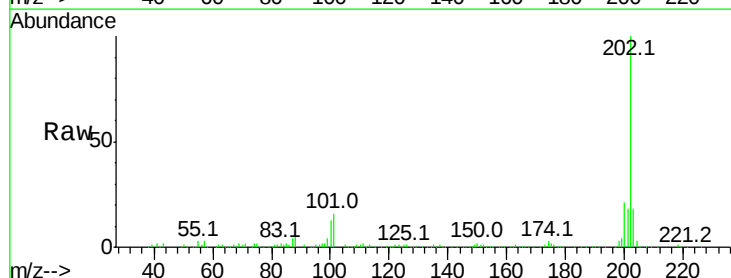
RT: 12.84 min Scan# 941

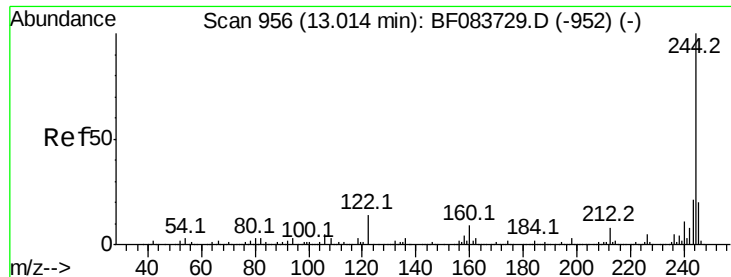
Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Tgt Ion:	202	Resp:	238597
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.7	25.1
203	18.4	14.3	21.5





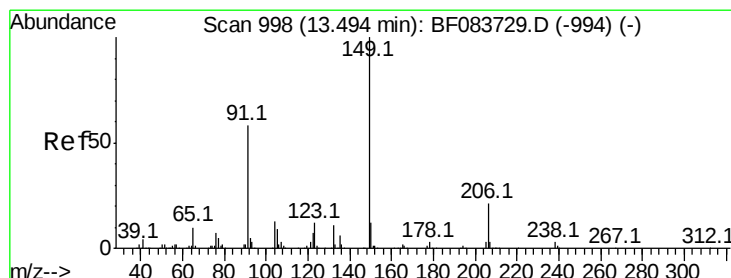
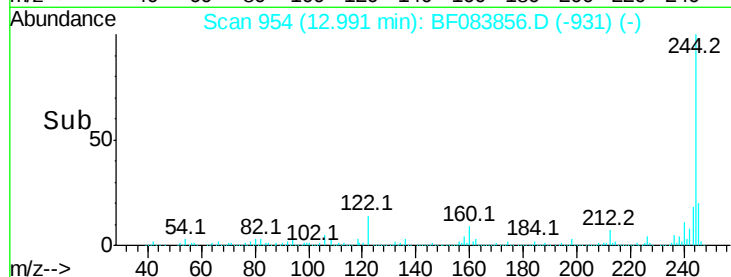
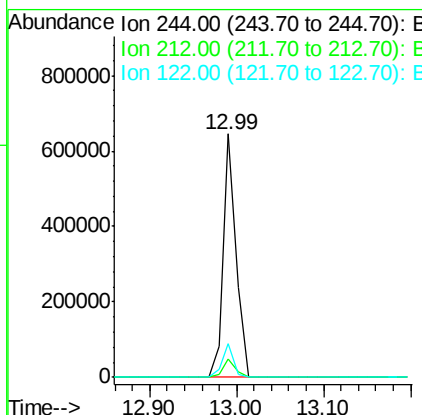
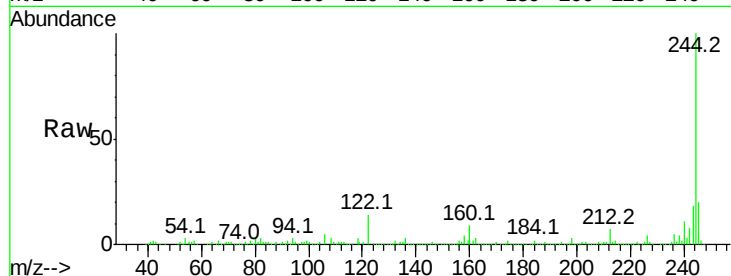
#78
 Terphenyl-d14
 Concen: 70.86 ng
 RT: 12.99 min Scan# 954
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.5	6.1	9.1	
122	13.8	11.0	16.6	

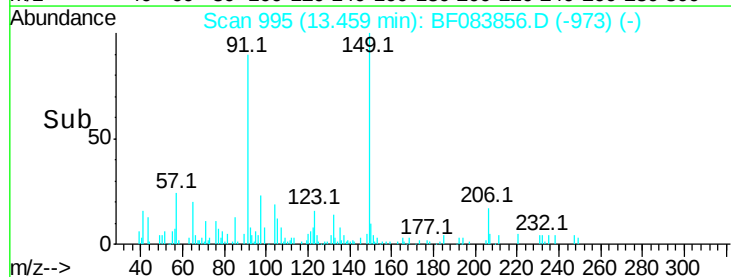
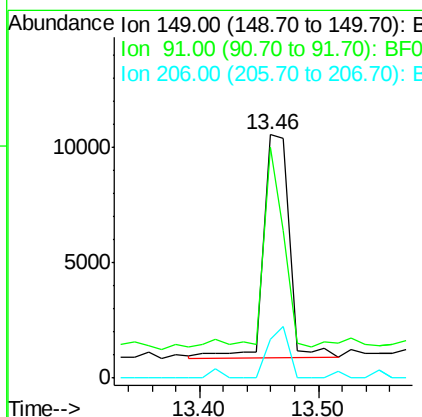
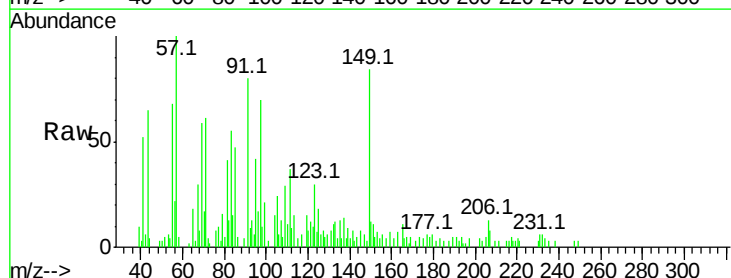
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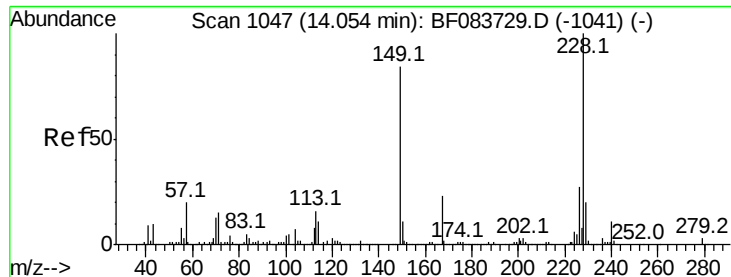
MMdadoda
 12/17/2015 5:34:14 PM



#79
 Butylbenzylphthalate
 Concen: 2.10 ng
 RT: 13.46 min Scan# 995
 Delta R.T. -0.04 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
91	95.0	60.0	90.0#	
206	15.8	16.2	24.4#	





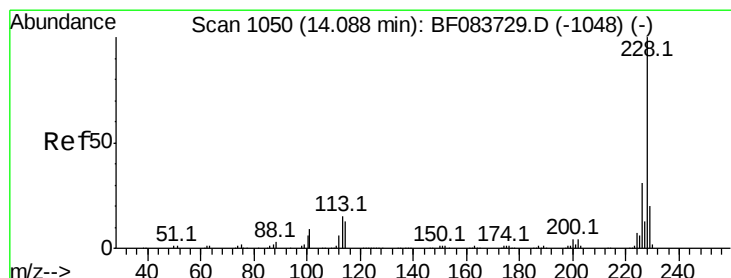
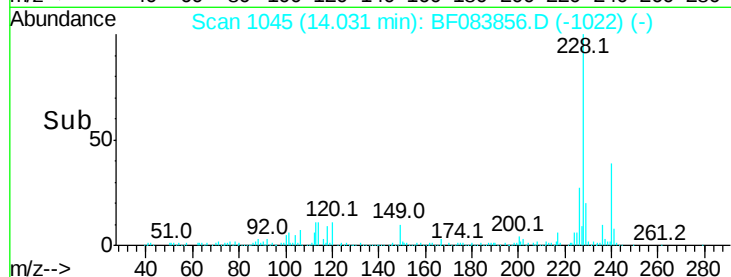
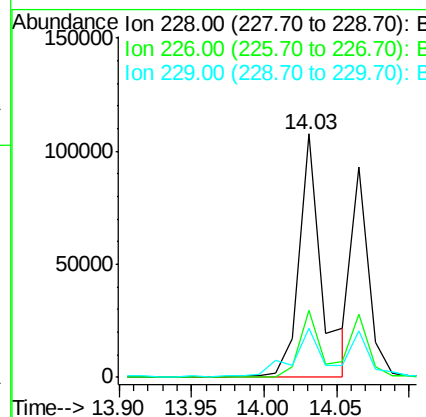
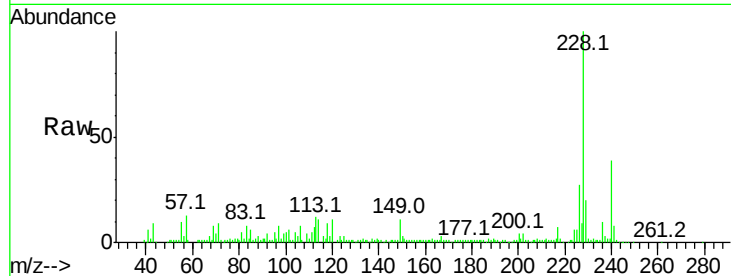
#80
Benzo(a)anthracene
Concen: 10.08 ng
RT: 14.03 min Scan# 1045
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tot Ion:	228	Resp:	116286
Ion Ratio		Lower	Upper
228	100		
226	27.4	22.3	33.5
229	20.1	15.7	23.5

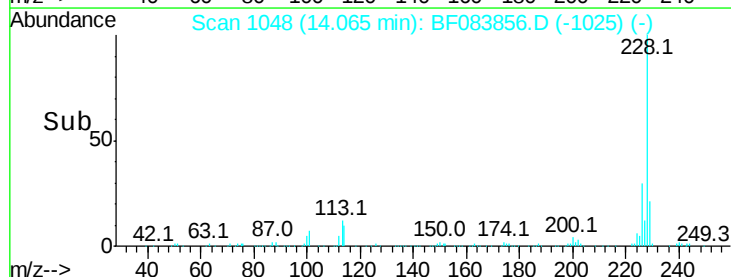
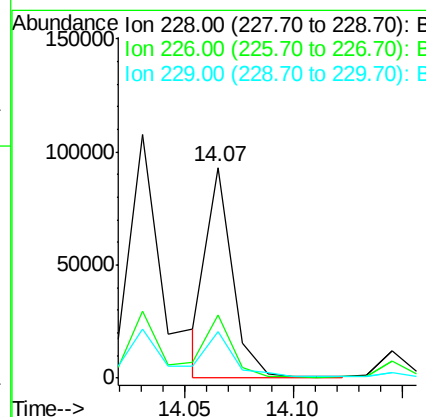
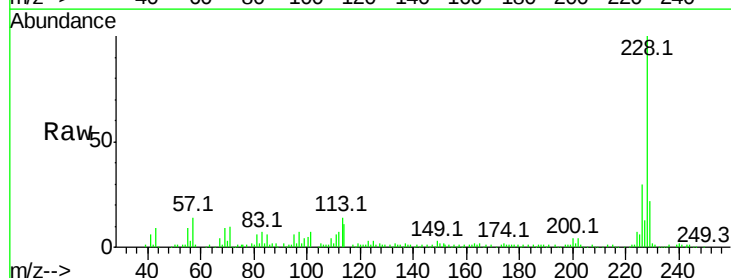
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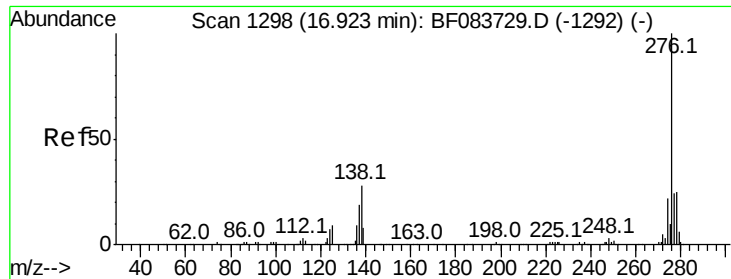
MMdadoda
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#82
Chrysene
Concen: 6.78 ng
RT: 14.07 min Scan# 1048
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion:	228	Resp:	76319
Ion Ratio		Lower	Upper
228	100		
226	30.2	24.7	37.1
229	22.1	16.3	24.5





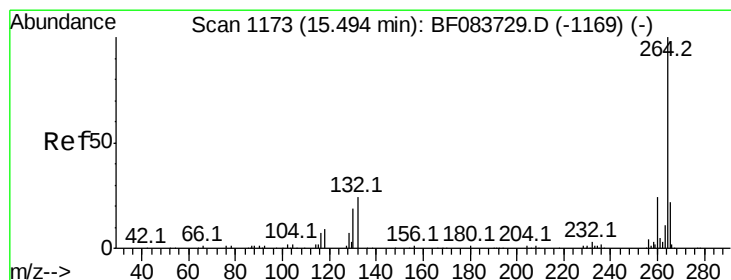
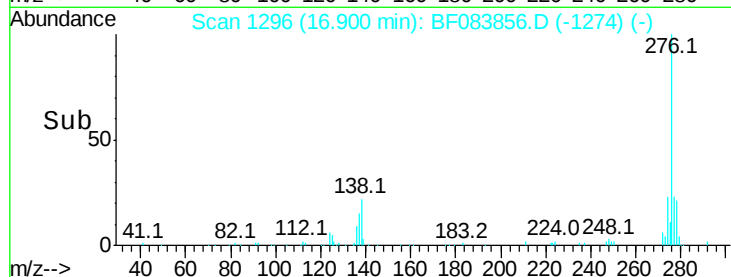
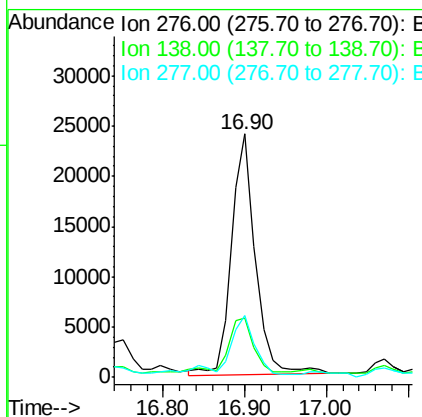
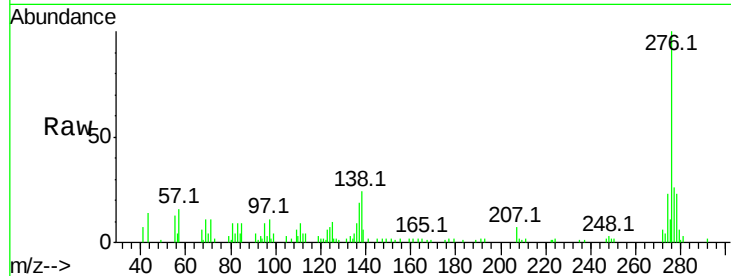
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.44 ng
RT: 16.90 min Scan# 1296
Delta R.T. -0.05 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	25.1	0.0	0.0	
277	22.9	0.0	0.0	

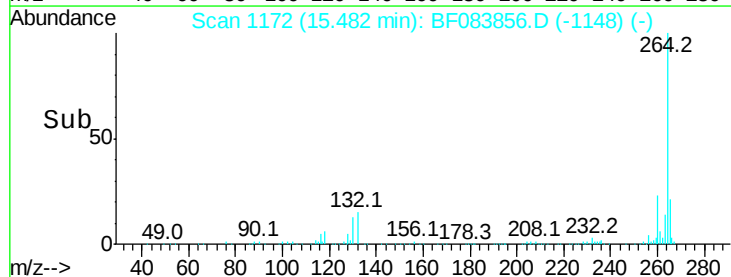
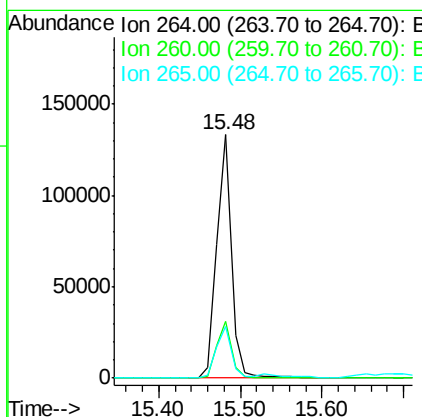
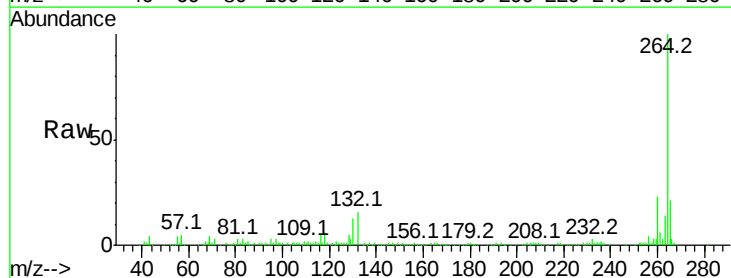
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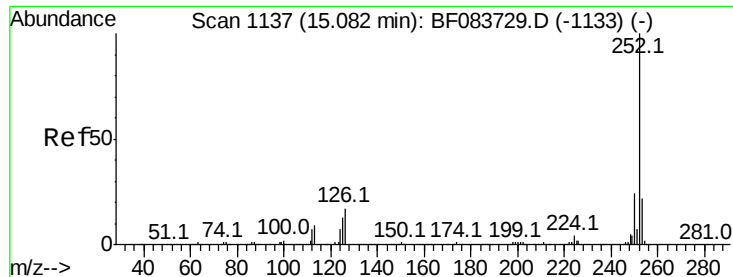
MMdadoda
12/17/2015 5:34:14 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.48 min Scan# 1172
Delta R.T. -0.02 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.1	19.4	29.0	
265	21.4	17.8	26.6	





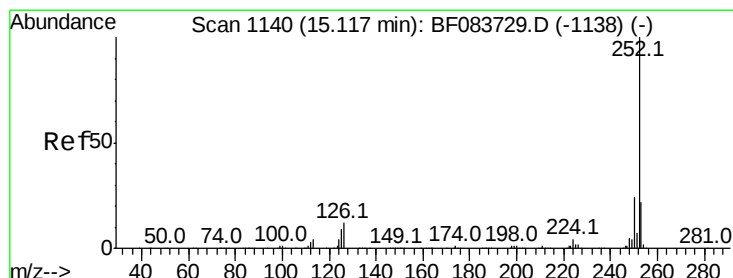
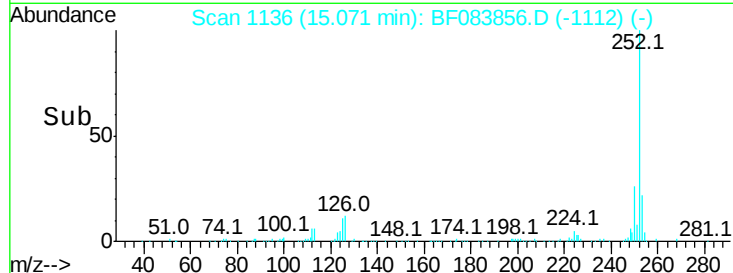
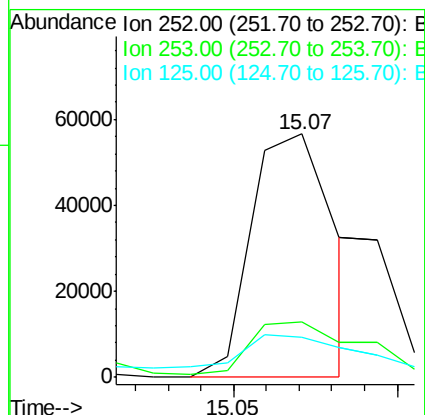
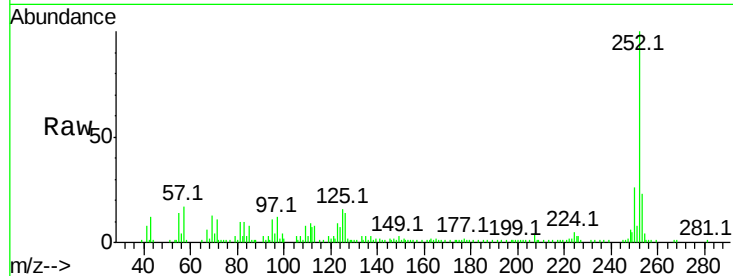
#87
Benzo(b)fluoranthene
Concen: 9.37 ng m
RT: 15.07 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.6	18.2	27.4
125	16.3	8.2	12.4

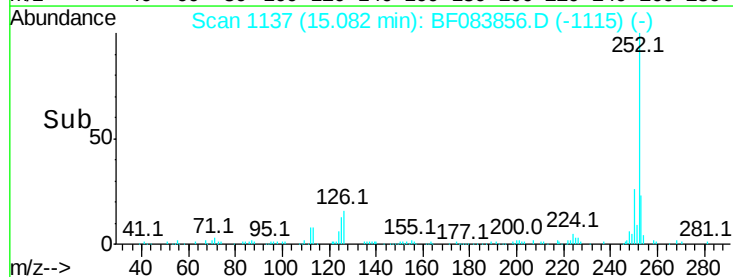
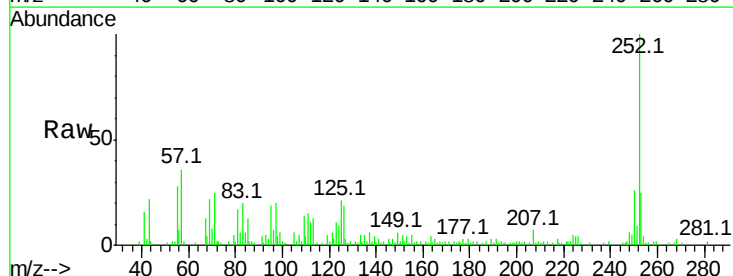
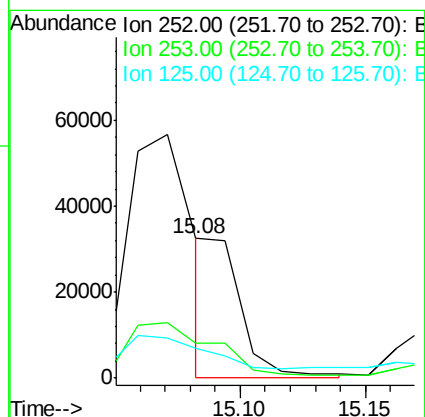
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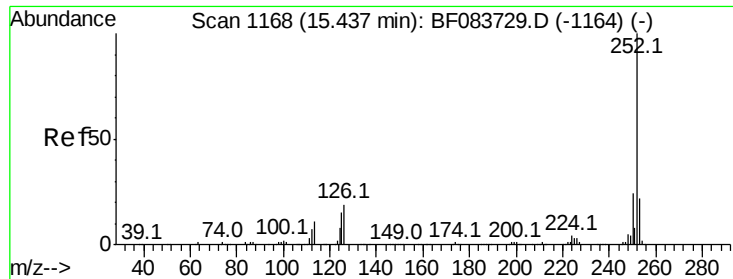
MMdadoda
12/17/2015 5:34:14 PM



#88
Benzo(k)fluoranthene
Concen: 2.89 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.05 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	25.0	18.6	27.8
125	21.1	11.5	17.3





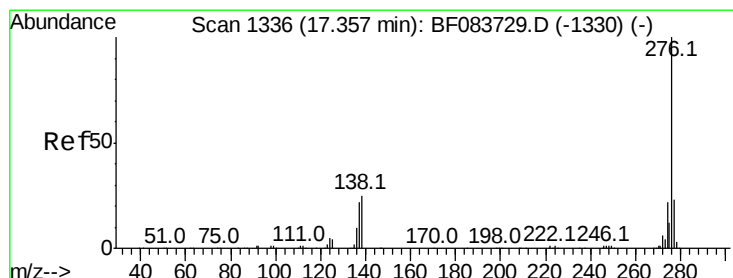
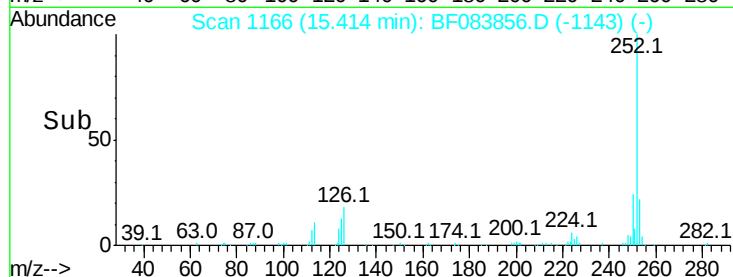
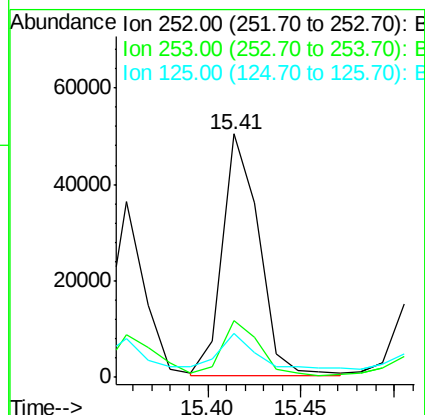
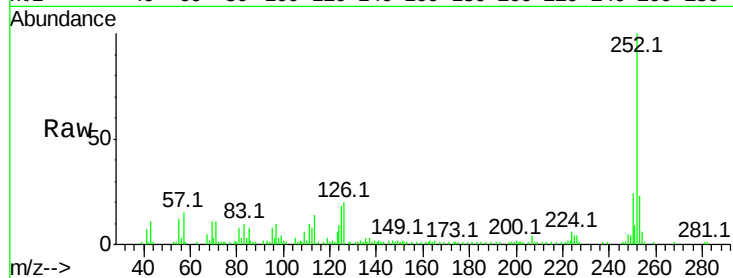
#89
Benzo(a)pyrene
Concen: 7.16 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	18.2	11.0	16.6

Manual Integrations
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MMdadoda
12/17/2015 5:34:14 PM



#91
Benzo(g,h,i)perylene
Concen: 4.86 ng
RT: 17.32 min Scan# 1333
Delta R.T. -0.06 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.2	28.8
138	26.3	19.5	29.3

