

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112315\
 Data File : BF083229.D
 Acq On : 24 Nov 2015 3:29
 Operator : UM/IZ
 Sample : G4480-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY SF_002

Manual Integrations
 APPROVED

Mmdadoda
 11/24/2015 1:20:17 PM

Quant Time: Nov 24 07:06:13 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Nov 22 09:22:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	230800	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	879301	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	391182	20.00	ng	-0.02
63) Phenanthrene-d10	11.15	188	579645	20.00	ng	-0.02
75) Chrysene-d12	13.78	240	489486	20.00	ng	-0.02
86) Perylene-d12	15.14	264	355571	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	1444646	94.63	ng	-0.02
7) Phenol-d6	6.32	99	2088120	105.72	ng	-0.02
23) Nitrobenzene-d5	7.21	82	1091085	56.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	274749	68.65	ng	-0.02
44) 2-Fluorobiphenyl	9.02	172	1978184	70.52	ng	-0.01
78) Terphenyl-d14	12.74	244	1384622	66.61	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	9.40	163	310773	10.32	ng	100
70) Phenanthrene	11.18	178	488123	14.62	ng	97
71) Anthracene	11.22	178	140330	4.12	ng	98
74) Fluoranthene	12.35	202	640370	18.74	ng	96
77) Pyrene	12.58	202	560072	16.75	ng	98
80) Benzo(a)anthracene	13.77	228	323362m	10.68	ng	
82) Chrysene	13.81	228	268773m	9.57	ng	
85) Indeno(1,2,3-cd)pyrene	16.40	276	106754	4.18	ng	98
87) Benzo(b)fluoranthene	14.78	252	315657m	12.99	ng	
88) Benzo(k)fluoranthene	14.79	252	69914m	3.86	ng	
89) Benzo(a)pyrene	15.09	252	194080	9.68	ng	# 95
91) Benzo(a,h,i)perylene	16.77	276	93802	5.27	ng	# 93

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

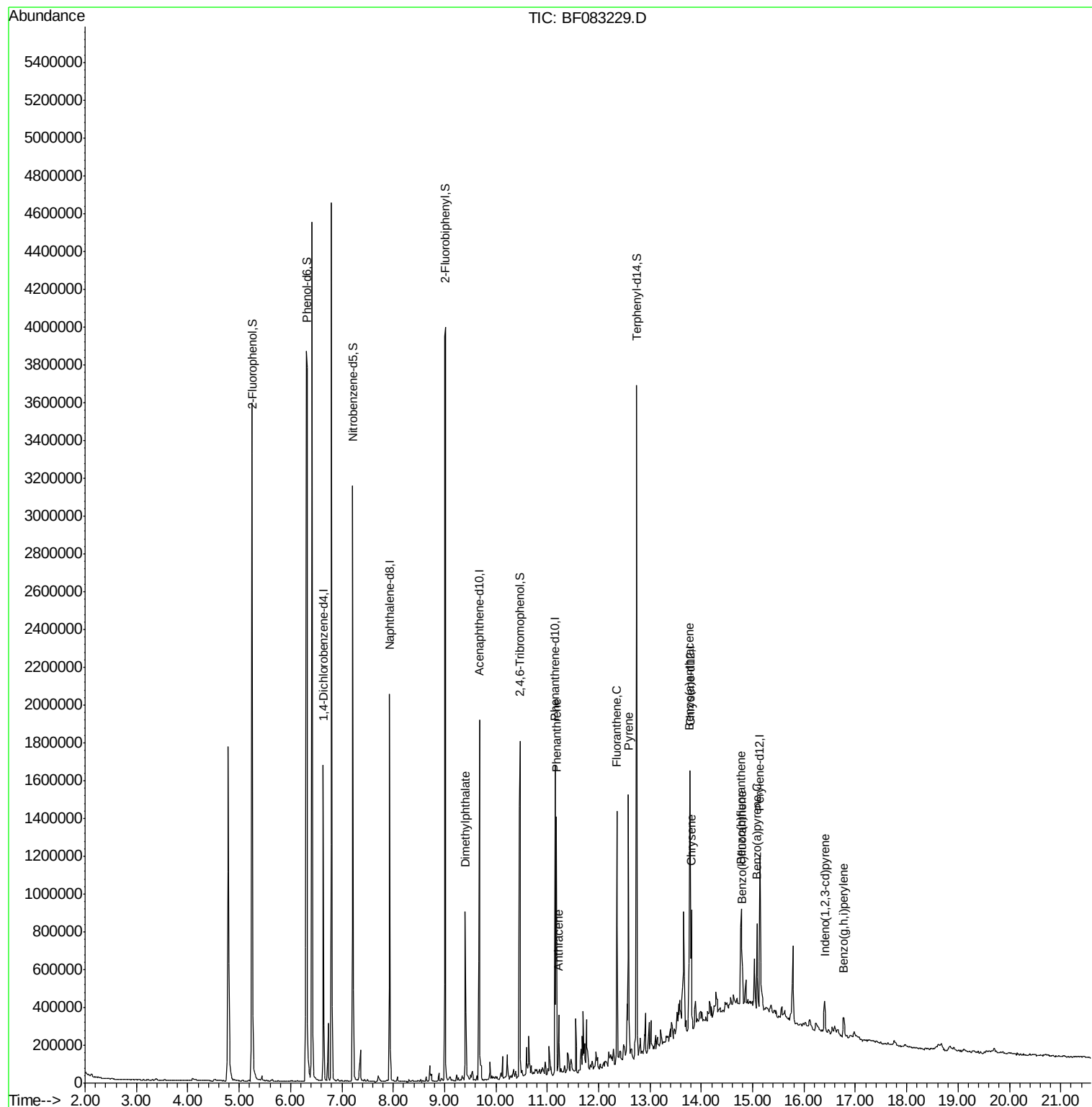
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112315\
Data File : BF083229.D
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Sample : G4480-01
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ALS Vial : 30 Sample Multiplier: 1

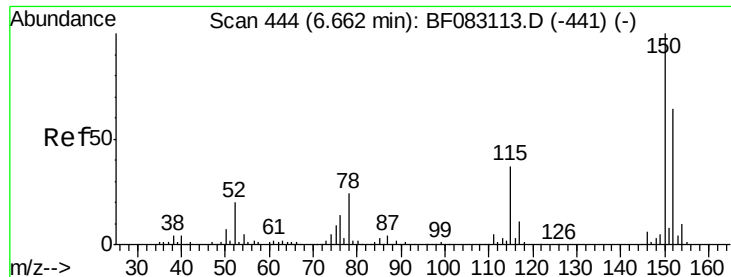
Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Manual Integrations
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11/24/2015 1:20:17 PM

Quant Time: Nov 24 07:06:13 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Nov 22 09:22:46 2015
Response via : Initial Calibration





#1

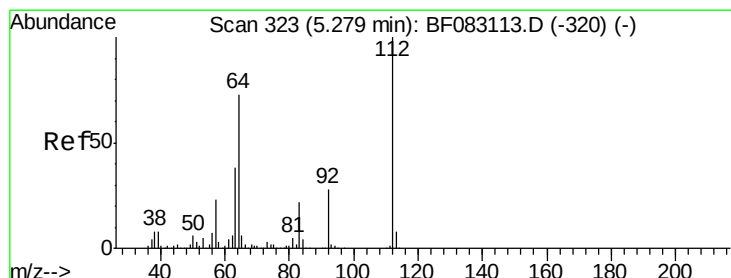
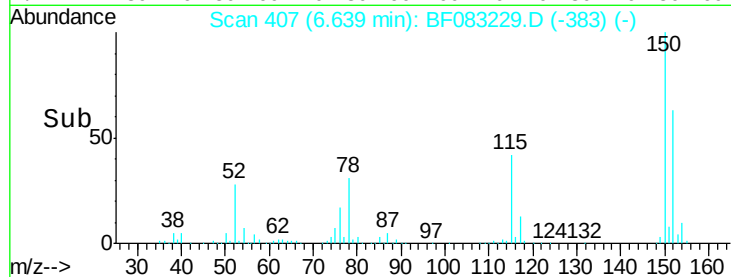
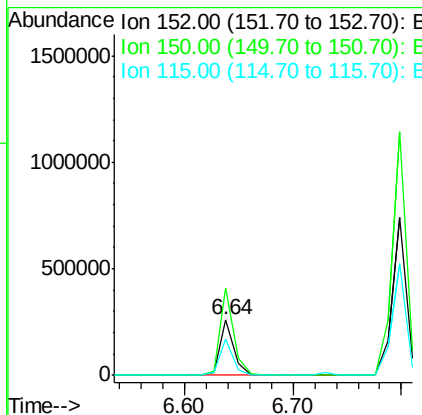
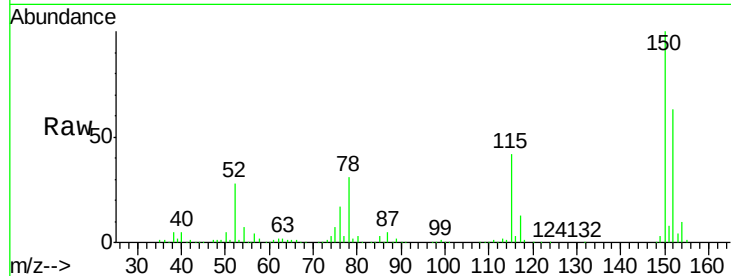
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.64 min Scan# 407
Delta R.T. -0.02 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.8	188.8
115	66.2	46.9	70.3

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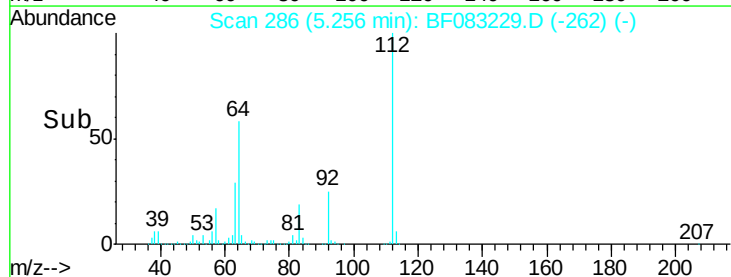
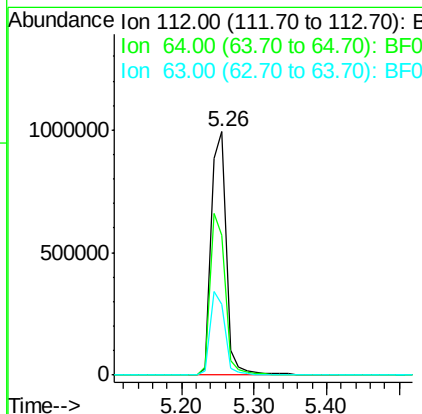
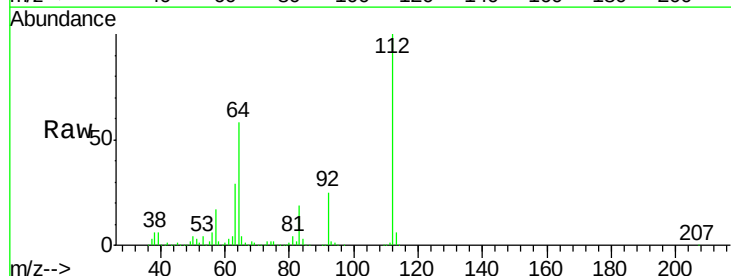
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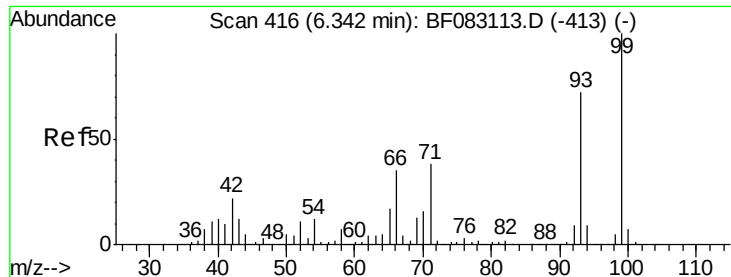


#5

2-Fluorophenol
Concen: 94.63 ng
RT: 5.26 min Scan# 286
Delta R.T. -0.02 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	58.4	87.6#
63	29.1	30.0	45.0#





#7

Phenol-d6

Concen: 105.72 ng

RT: 6.32 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

ClientSampleId :

LIBERTY_SF_002

Tot Ion: 99 Resp: 2088120

Ion Ratio Lower Upper

99 100

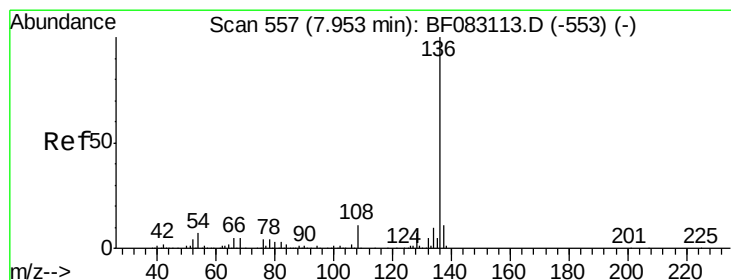
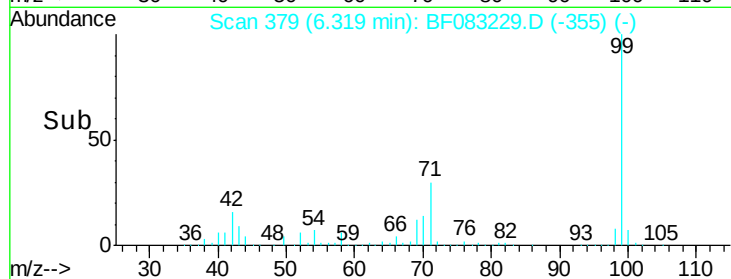
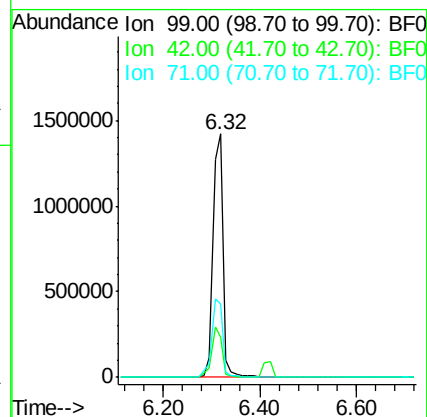
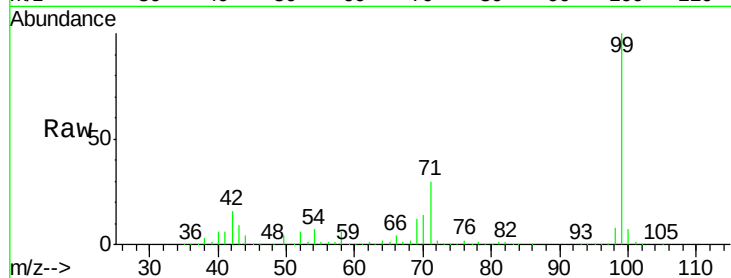
42 16.5 17.7 26.5#

71 30.3 30.2 45.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.93 min Scan# 520

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Tgt Ion: 136 Resp: 879301

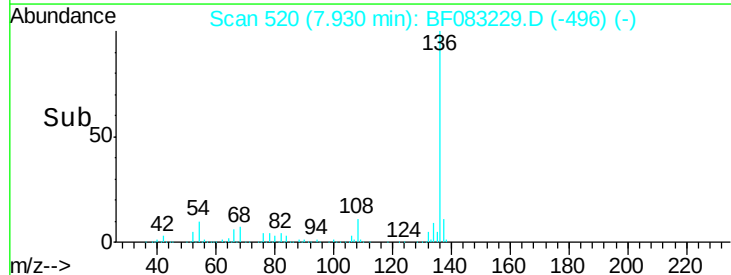
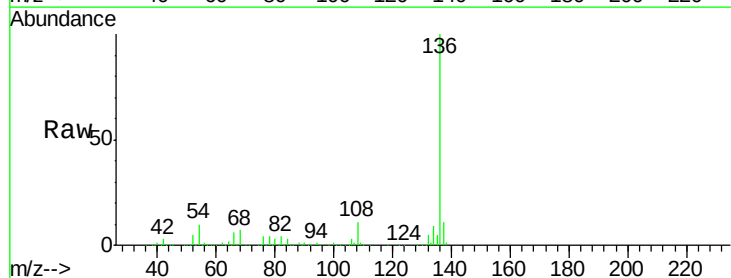
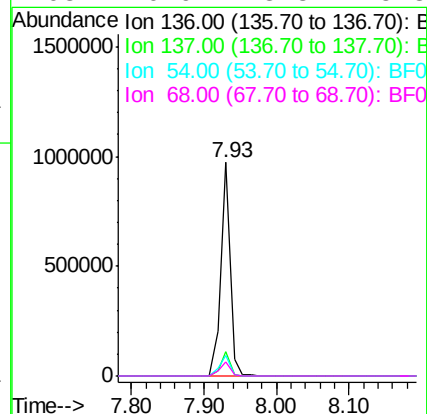
Ion Ratio Lower Upper

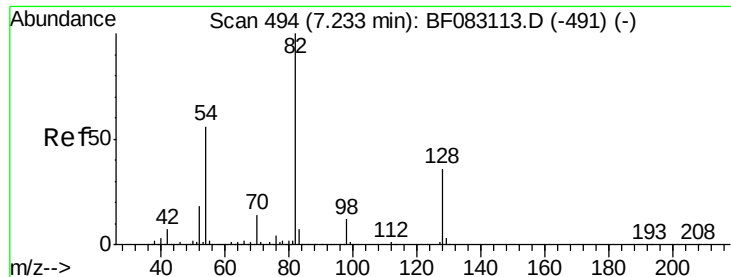
136 100

137 11.3 8.7 13.1

54 9.7 5.8 8.6#

68 6.9 3.8 5.8#





#23

Nitrobenzene-d5

Concen: 56.70 ng

RT: 7.21 min Scan# 457

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

Tot Ion: 82 Resp: 1091085

Ion Ratio Lower Upper

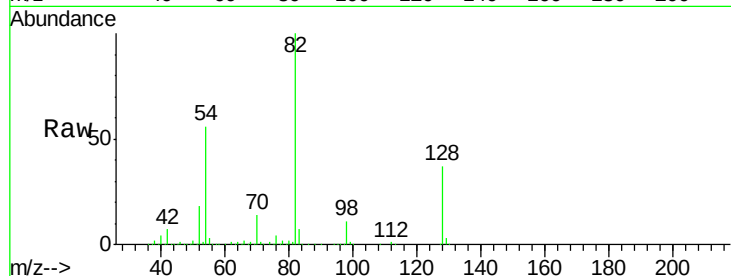
82 100

128 37.4 28.5 42.7

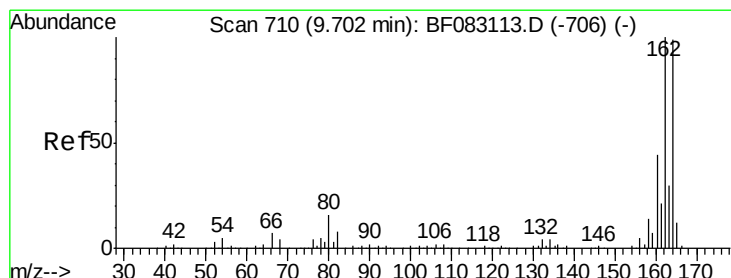
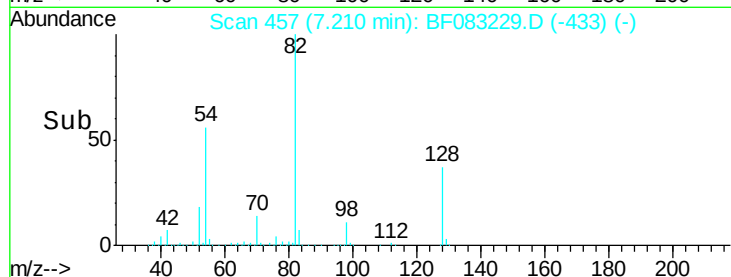
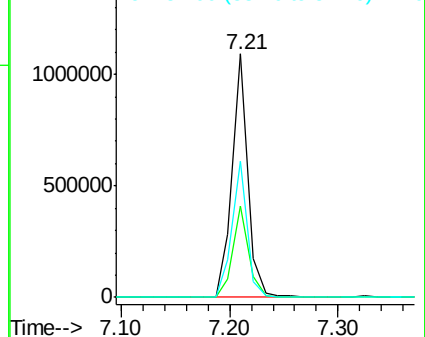
54 55.9 44.6 67.0

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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: 9.68 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

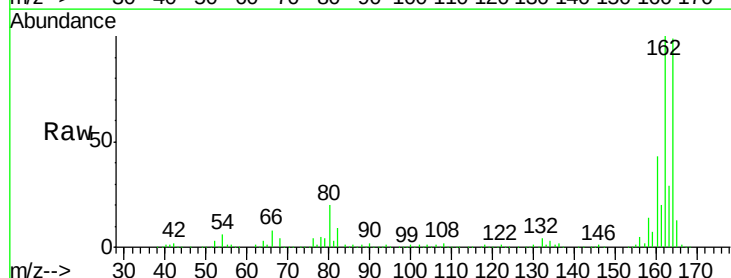
Tgt Ion:164 Resp: 391182

Ion Ratio Lower Upper

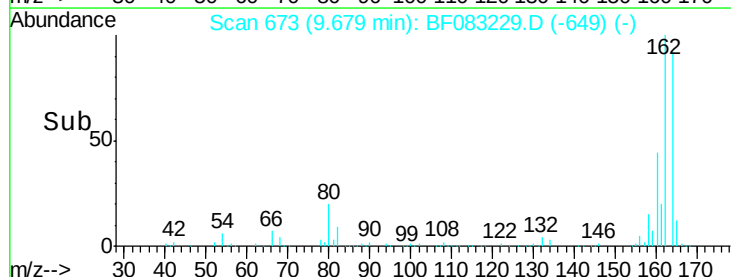
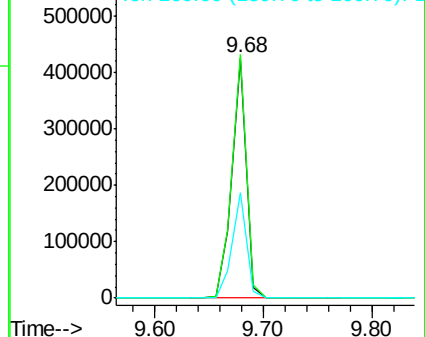
164 100

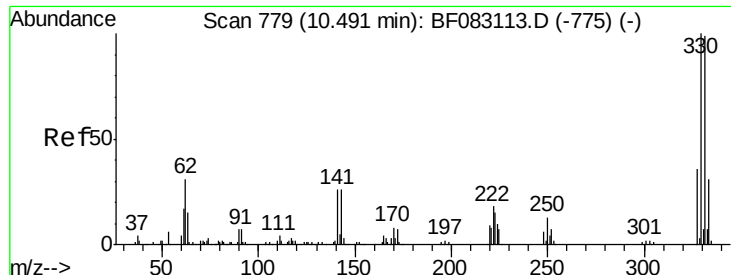
162 101.3 81.2 121.8

160 43.9 35.6 53.4



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





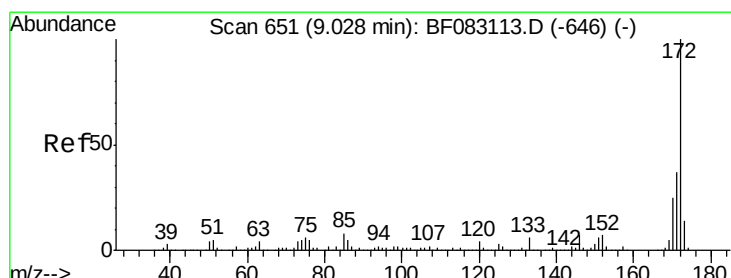
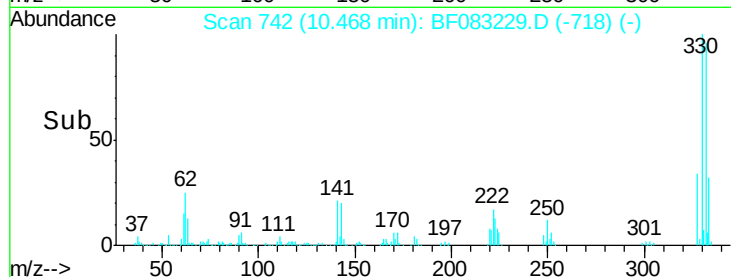
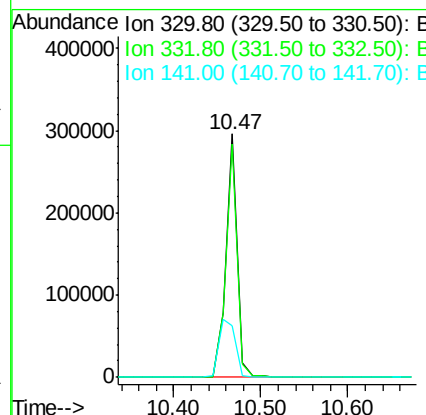
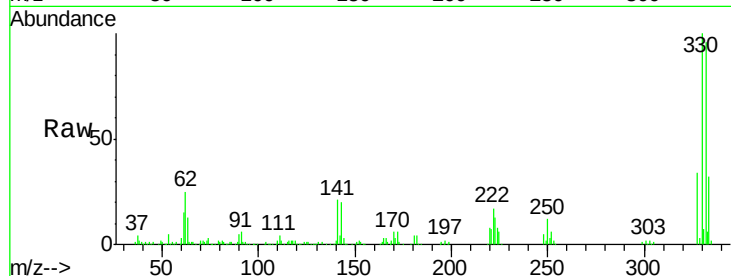
#41
 2,4,6-Tribromophenol
 Concen: 68.65 ng
 RT: 10.47 min Scan# 742
 Delta R.T. -0.02 min
 Lab File: BF083229.D
 Acq: 24 Nov 2015 3:29

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY SF_002

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.7	116.5
141	34.9	29.7	44.5

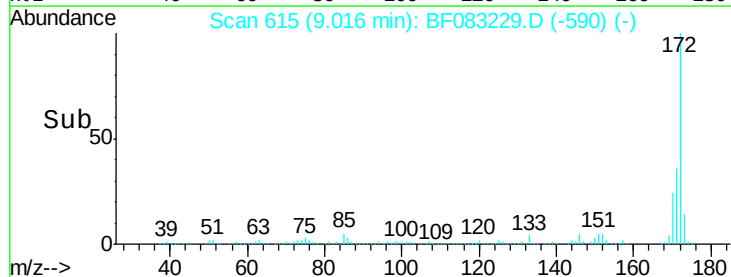
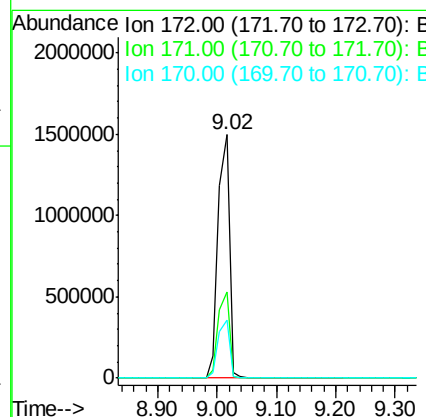
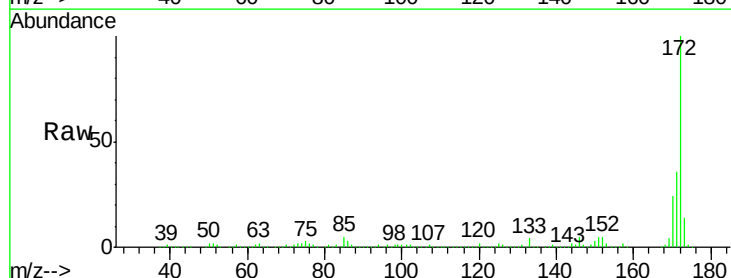
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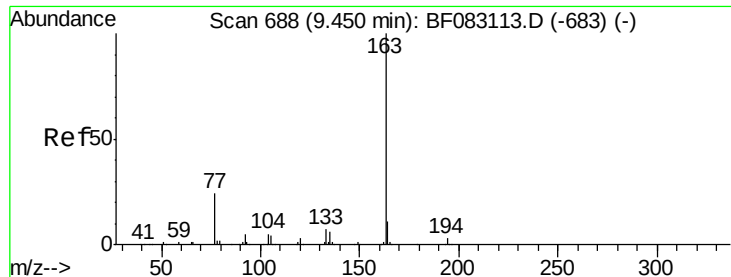
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#44
 2-Fluorobiphenyl
 Concen: 70.52 ng
 RT: 9.02 min Scan# 615
 Delta R.T. -0.01 min
 Lab File: BF083229.D
 Acq: 24 Nov 2015 3:29

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.5	44.3
170	24.0	19.9	29.9





#49

Dimethylphthalate

Concen: 10.32 ng

RT: 9.40 min Scan# 649

Delta R.T. -0.05 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

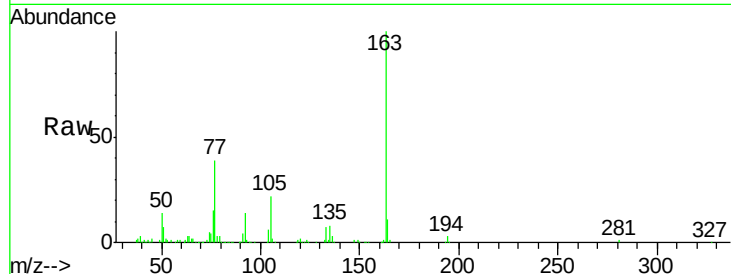
ClientSampleId :

LIBERTY SF_002

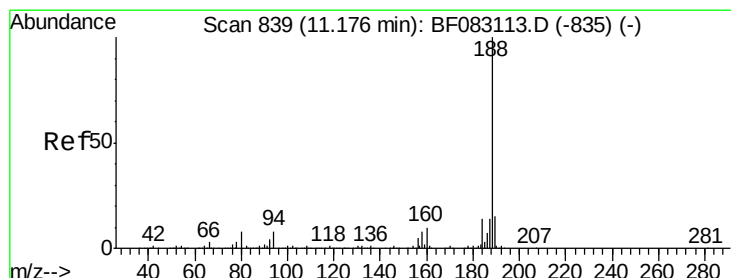
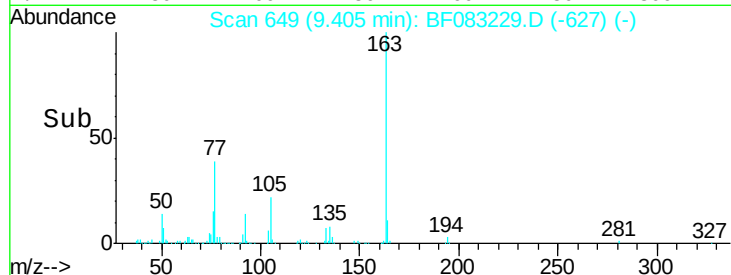
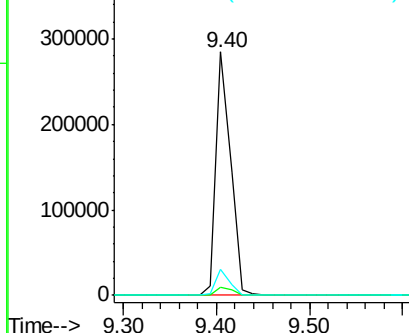
Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		310773		
194	3.3		2.6	4.0	
164	10.9		8.6	12.8	

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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

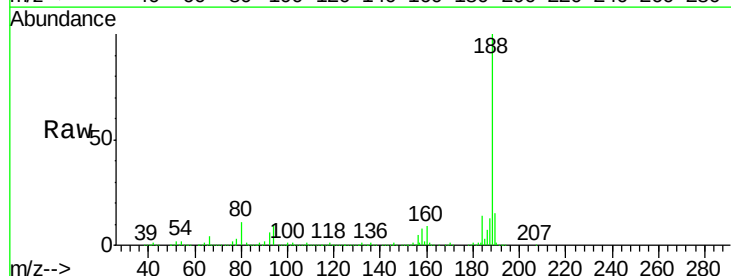
RT: 11.15 min Scan# 802

Delta R.T. -0.02 min

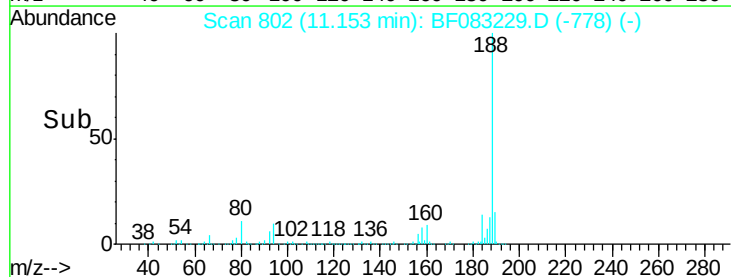
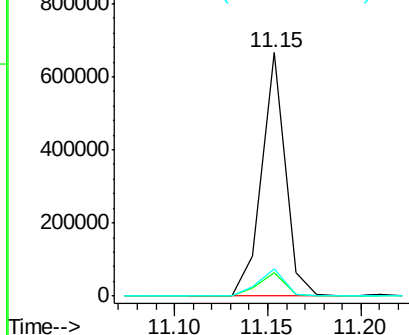
Lab File: BF083229.D

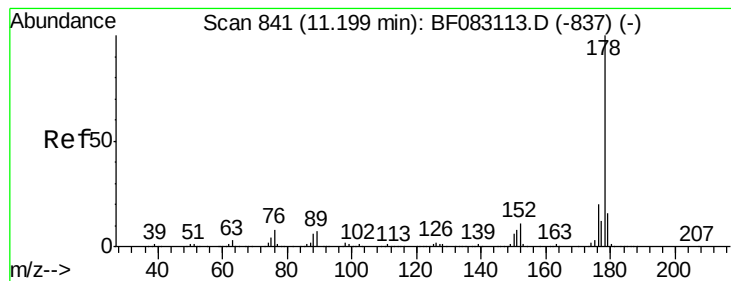
Acq: 24 Nov 2015 3:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		579645		
94	9.8		6.0	9.0#	
80	11.2		6.7	10.1#	



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: 14.62 ng

RT: 11.18 min Scan# 804

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

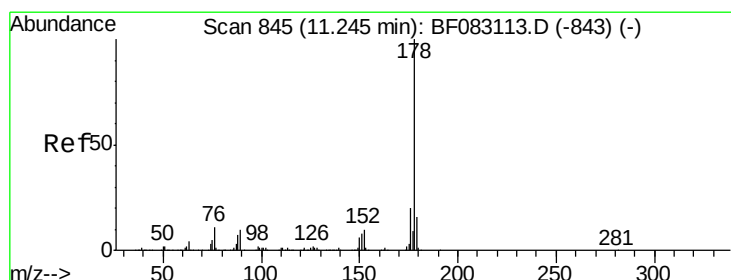
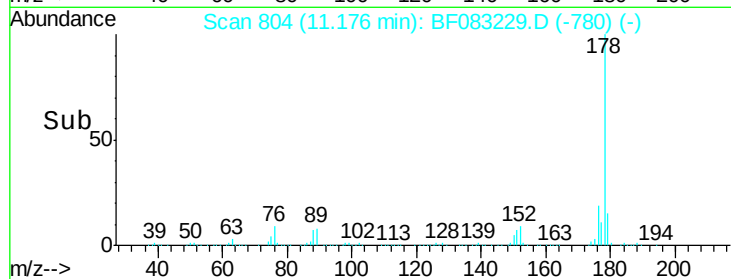
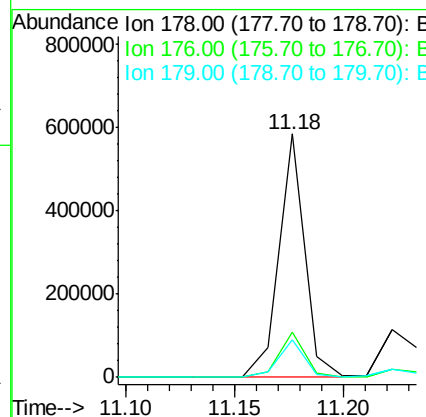
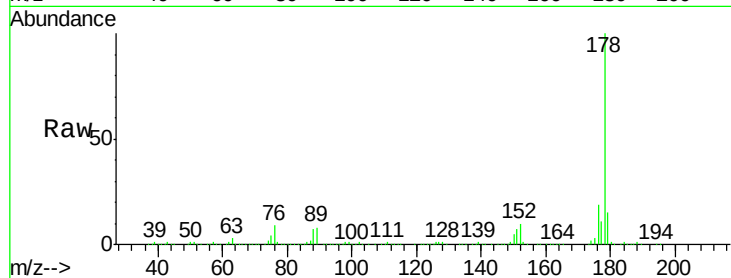
ClientSampleId :

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Tot Ion:	178	Resp:	488123
Ion Ratio	Lower	Upper	
178	100		
176	18.6	16.2	24.2
179	15.4	12.8	19.2

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#71

Anthracene

Concen: 4.12 ng

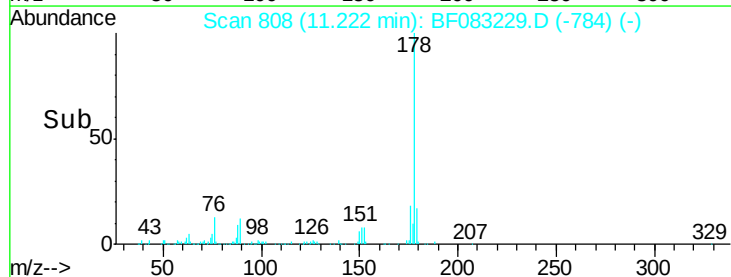
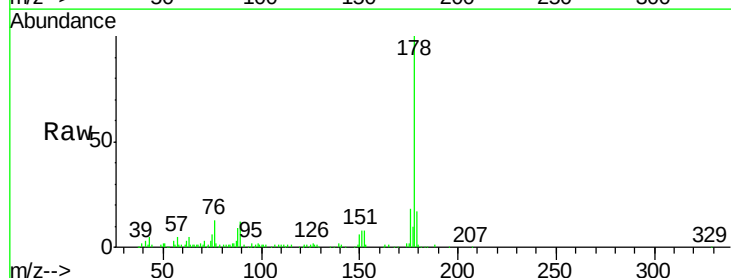
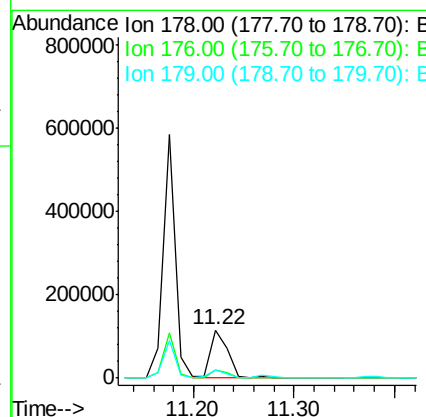
RT: 11.22 min Scan# 808

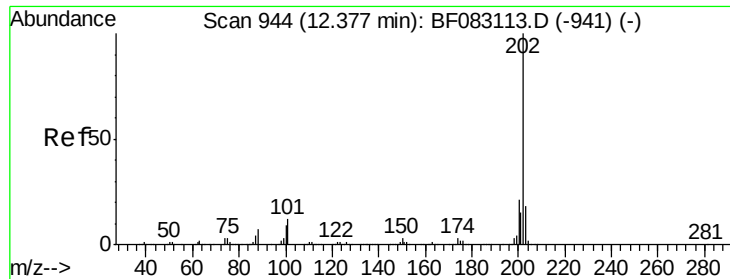
Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Tgt Ion:	178	Resp:	140330
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.6	23.4
179	16.9	13.2	19.8





#74

Fluoranthene

Concen: 18.74 ng

RT: 12.35 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

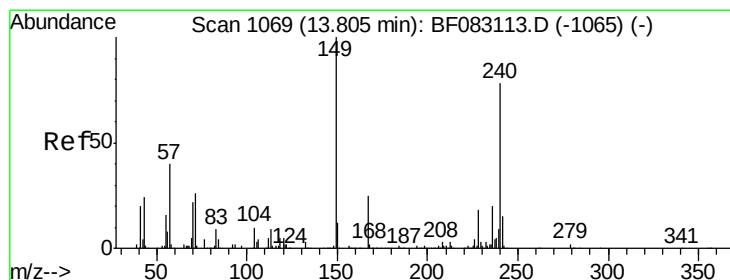
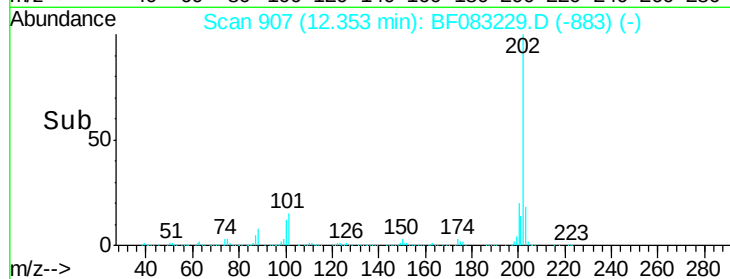
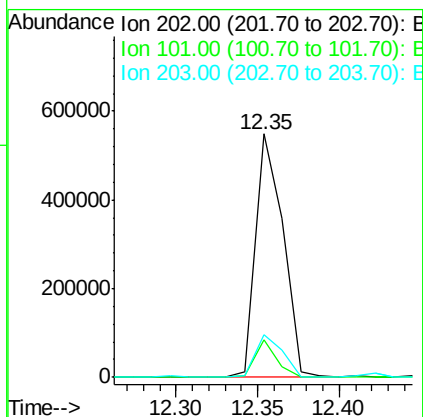
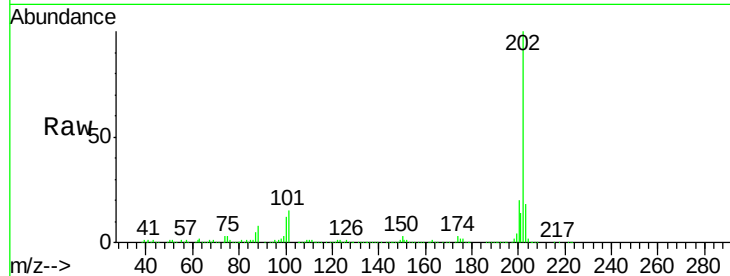
ClientSampleId :

LIBERTY SF_002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		640370		
101	15.4	0.0	32.3		
203	17.6	0.0	38.4		

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#75

Chrysene-d12

Concen: 20.00 ng

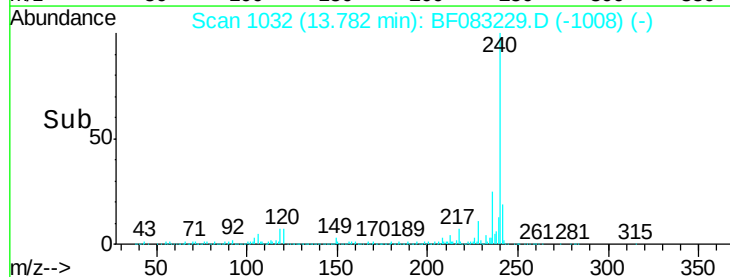
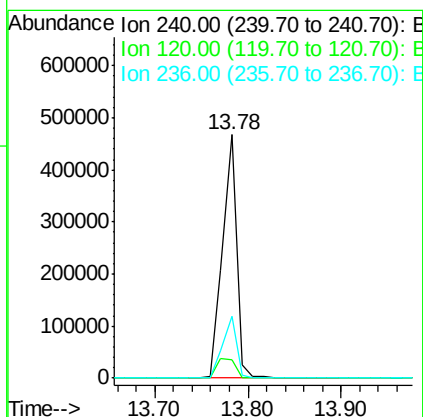
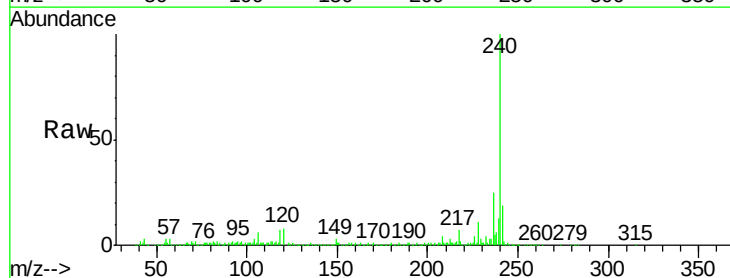
RT: 13.78 min Scan# 1032

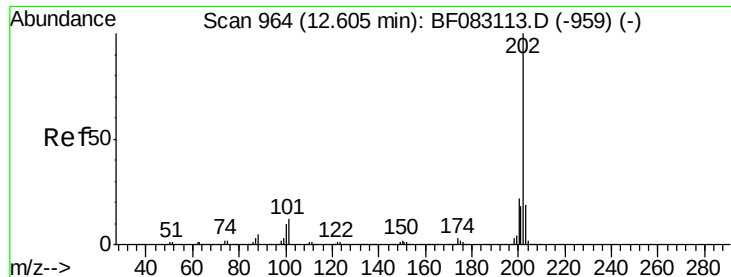
Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		489486		
120	7.6	5.4	8.2		
236	25.2	20.6	31.0		





#77

Pvrene

Concen: 16.75 ng

RT: 12.58 min Scan# 927

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

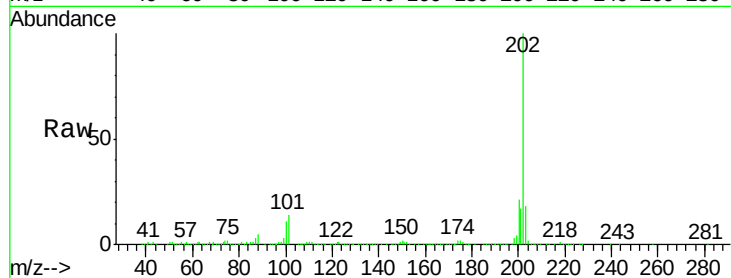
ClientSampleId :

LIBERTY SF_002

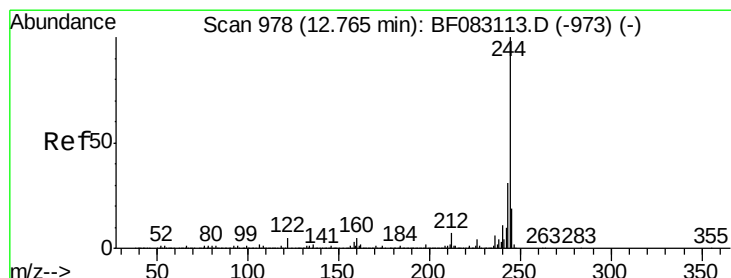
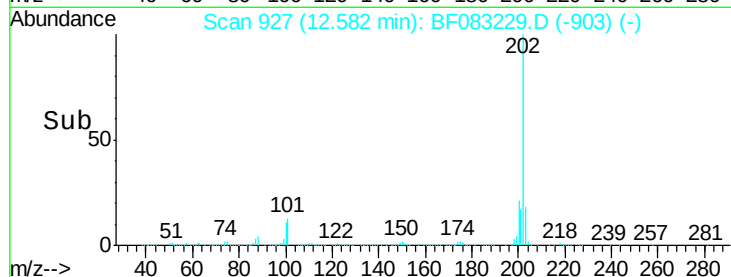
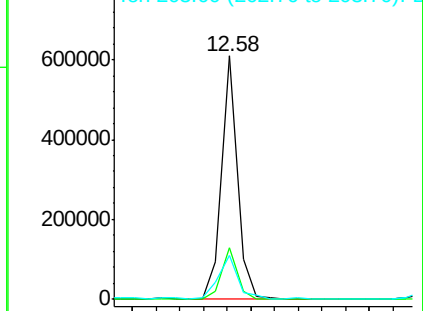
Tot Ion:	202	Resp:	560072
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.8	26.6
203	18.2	15.0	22.4

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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: 66.61 ng

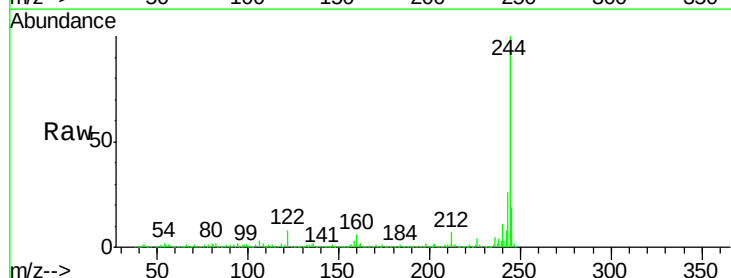
RT: 12.74 min Scan# 941

Delta R.T. -0.02 min

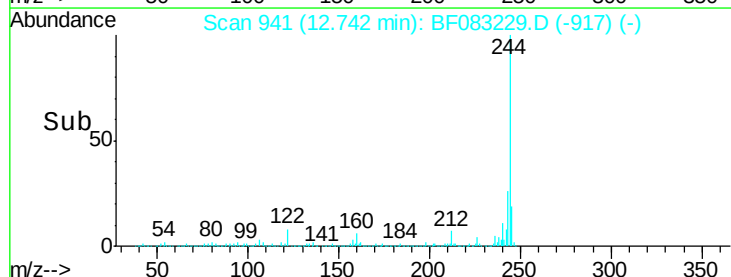
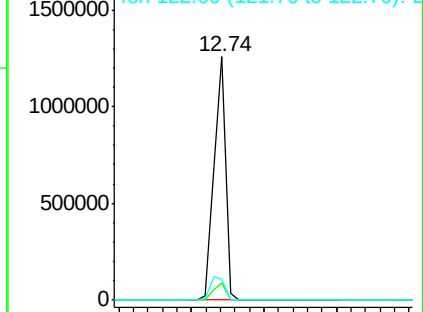
Lab File: BF083229.D

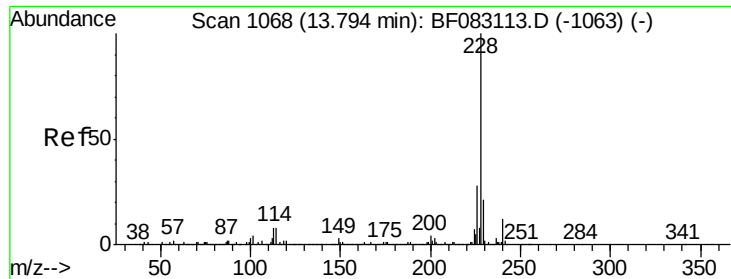
Acq: 24 Nov 2015 3:29

Tgt Ion:	244	Resp:	1384622
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.2
122	8.3	4.3	6.5#



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





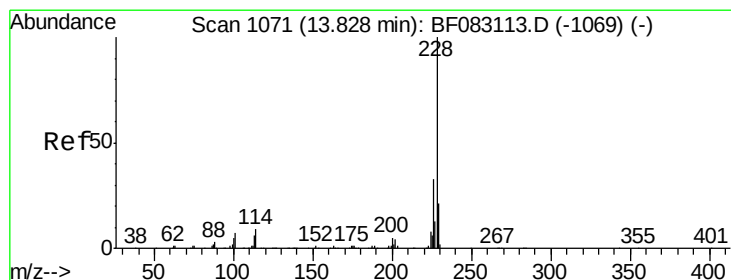
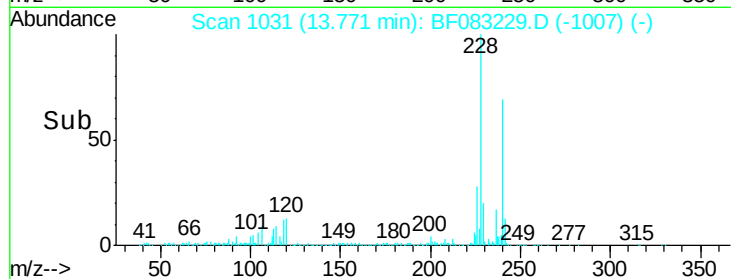
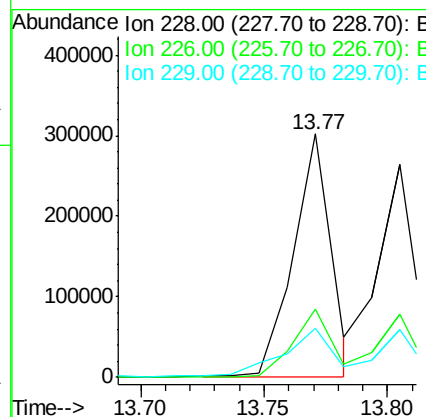
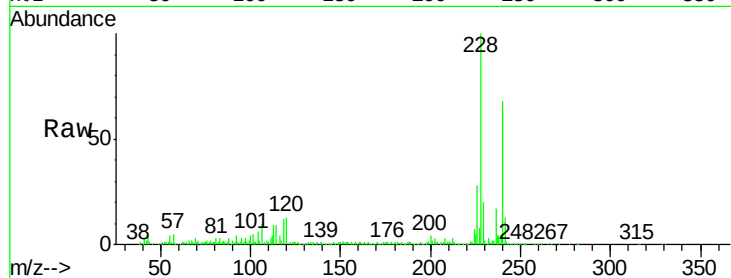
#80
Benzo(a)anthracene
Concen: 10.68 ng m
RT: 13.77 min Scan# 1031
Delta R.T. -0.02 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.0	16.6	24.8

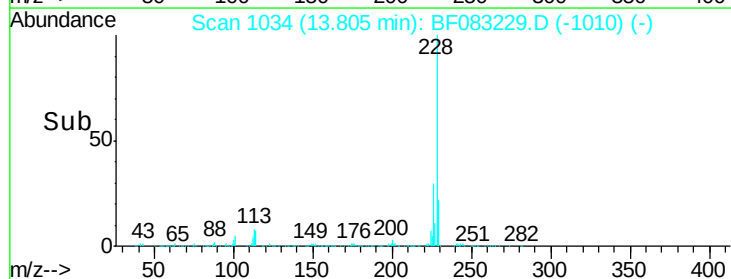
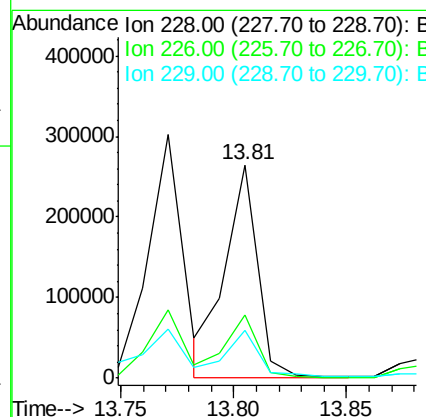
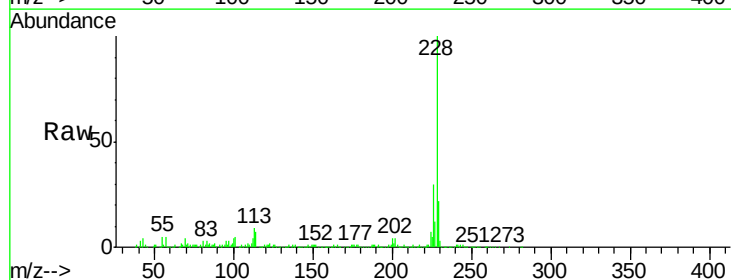
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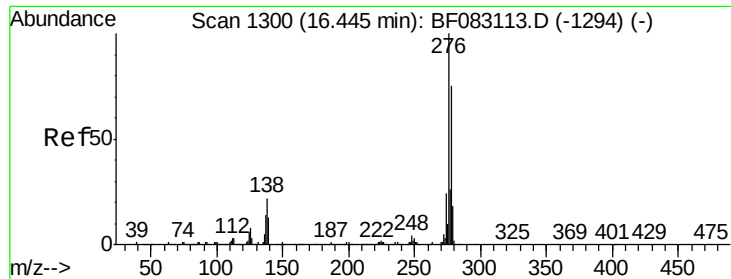
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#82
Chrysene
Concen: 9.57 ng m
RT: 13.81 min Scan# 1034
Delta R.T. -0.02 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.5	38.3
229	22.5	16.6	25.0





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.18 ng

RT: 16.40 min Scan# 1261

Delta R.T. -0.05 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

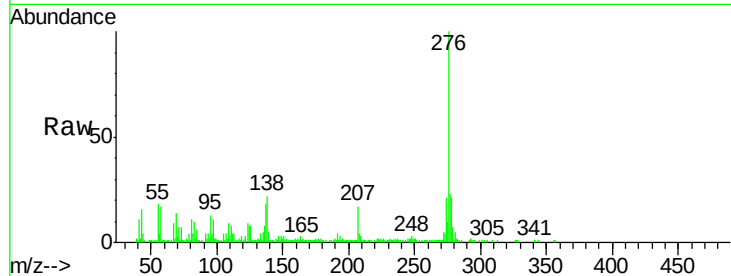
ClientSampleId :

LIBERTY SF_002

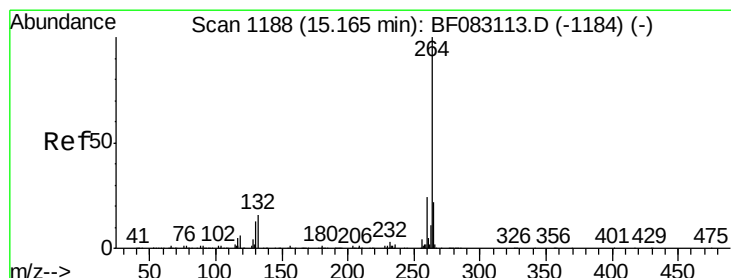
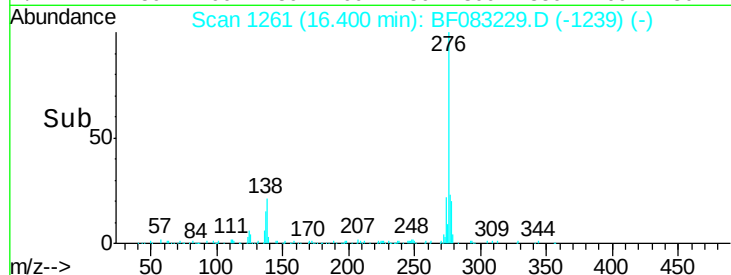
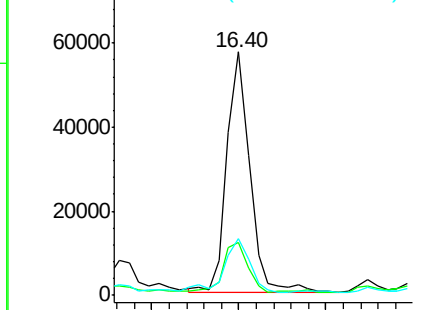
Tot Ion:	276	Resp:	106754
Ion Ratio		Lower	Upper
276	100		
138	21.1	18.0	27.0
277	25.7	20.2	30.4

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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

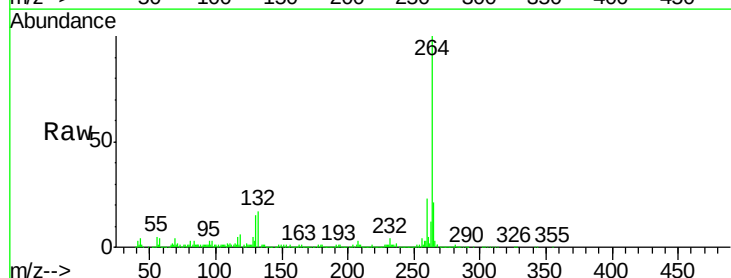
RT: 15.14 min Scan# 1151

Delta R.T. -0.02 min

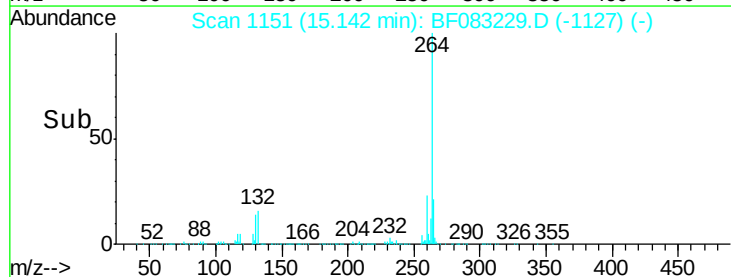
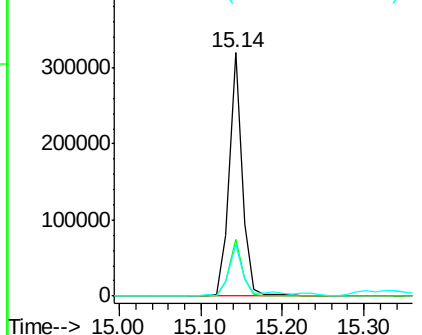
Lab File: BF083229.D

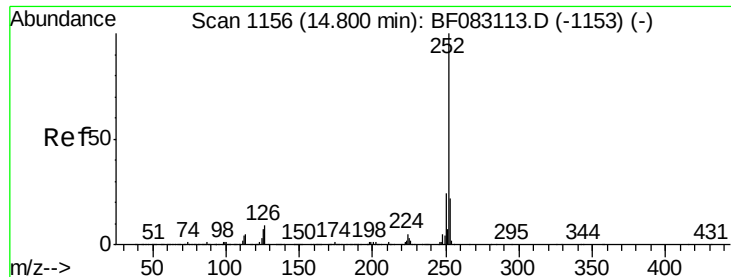
Acq: 24 Nov 2015 3:29

Tgt Ion:	264	Resp:	355571
Ion Ratio		Lower	Upper
264	100		
260	23.2	19.1	28.7
265	21.1	18.2	27.4



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: 12.99 ng m

RT: 14.78 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Instrument :

BNA_F

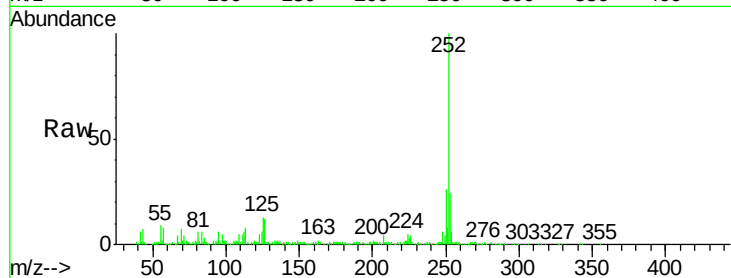
ClientSampleId :

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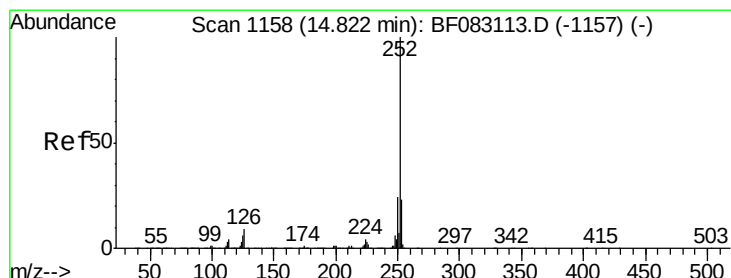
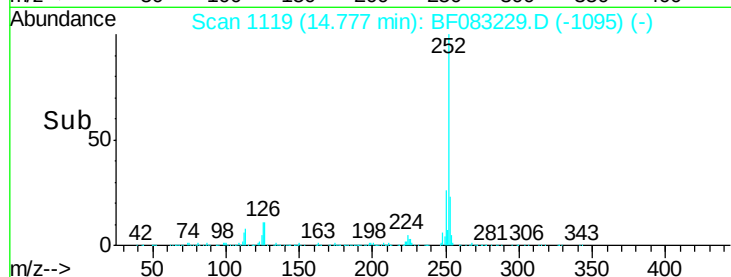
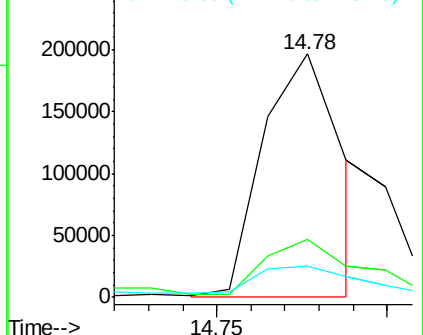
Tot Ion:	252	Resp:	315657
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.7	26.5
125	12.9	5.6	8.4#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 3.86 ng m

RT: 14.79 min Scan# 1120

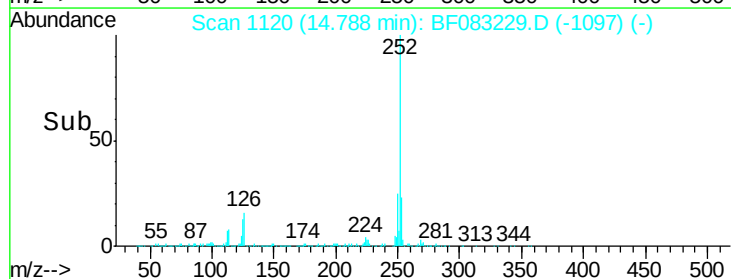
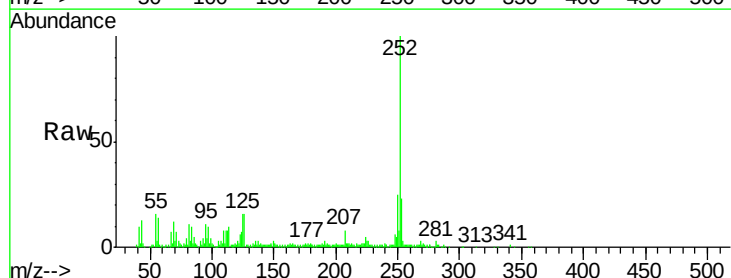
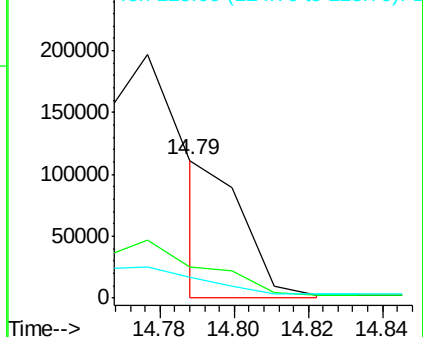
Delta R.T. -0.03 min

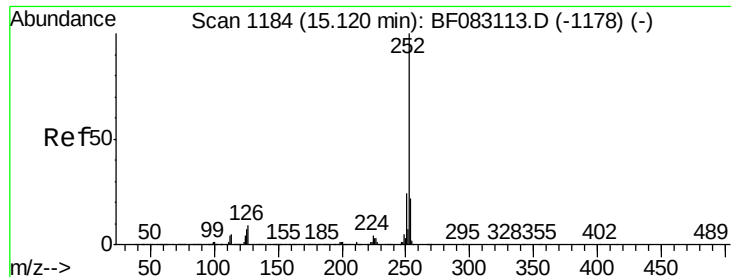
Lab File: BF083229.D

Acq: 24 Nov 2015 3:29

Tgt Ion:	252	Resp:	69914
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.2
125	15.6	6.8	10.2#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





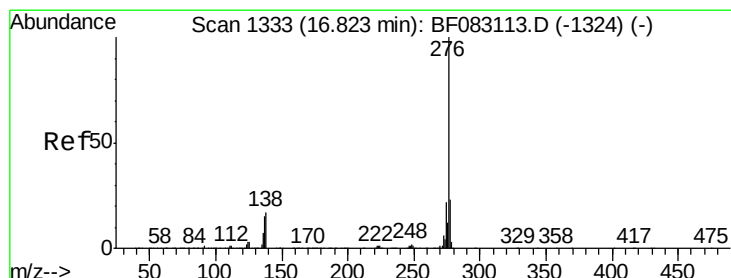
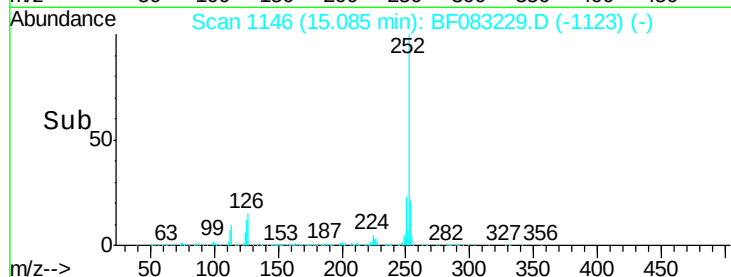
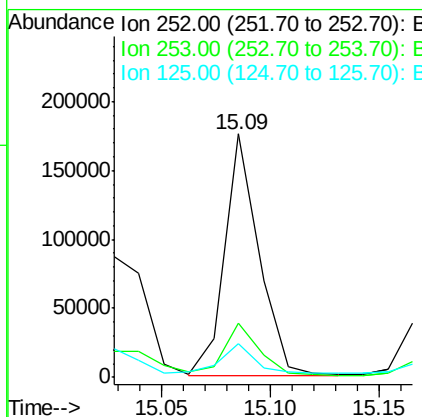
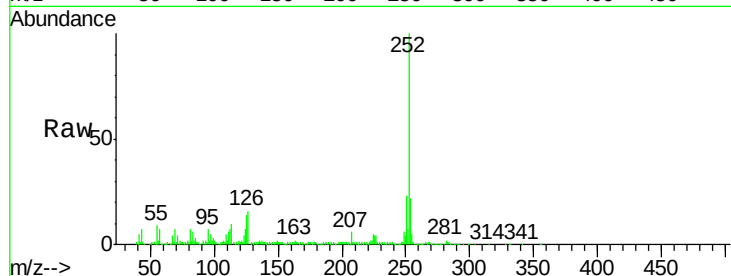
#89
Benzo(a)pyrene
Concen: 9.68 ng
RT: 15.09 min Scan# 1146
Delta R.T. -0.03 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	14.0	5.4	8.0

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#91
Benzo(g,h,i)perylene
Concen: 5.27 ng
RT: 16.77 min Scan# 1293
Delta R.T. -0.06 min
Lab File: BF083229.D
Acq: 24 Nov 2015 3:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	24.1	13.9	20.9

