

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\
 Data File : BF083989.D
 Acq On : 20 Dec 2015 9:36
 Operator : UM/SJ
 Sample : G4889-01
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

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Quant Time: Dec 21 04:54:52 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 14:23:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	85782	20.00	ng	-0.02
21) Naphthalene-d8	8.13	136	348773	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	149254	20.00	ng	-0.03
63) Phenanthrene-d10	11.37	188	258788	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	166074	20.00	ng	-0.02
86) Perylene-d12	15.44	264	165822	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	552094	100.72	ng	-0.01
7) Phenol-d6	6.50	99	668990	99.71	ng	-0.01
23) Nitrobenzene-d5	7.41	82	438060	71.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	170781	103.86	ng	-0.03
44) 2-Fluorobiphenyl	9.21	172	772028	70.73	ng	-0.03
78) Terphenyl-d14	12.96	244	666140	94.48	ng	-0.02
Target Compounds						
49) Dimethylphthalate	9.61	163	169907	13.57	ng	Qvalue # 90
70) Phenanthrene	11.39	178	223075	14.27	ng	99
71) Anthracene	11.45	178	58587	3.88	ng	98
74) Fluoranthene	12.58	202	239429	15.35	ng	96
77) Pyrene	12.81	202	207319	19.79	ng	99
80) Benzo(a)anthracene	14.00	228	87232m	8.54	ng	
82) Chrysene	14.03	228	70450m	7.14	ng	
83) Bis(2-ethylhexyl)phthalate	13.99	149	33133	4.49	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.85	276	43347	5.88	ng	92
87) Benzo(b)fluoranthene	15.03	252	82855m	6.85	ng	
88) Benzo(k)fluoranthene	15.04	252	37279m	3.74	ng	
89) Benzo(a)pyrene	15.38	252	66575	6.67	ng	# 94
91) Benzo(a,h,i)perylene	17.28	276	39785	5.23	ng	96

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

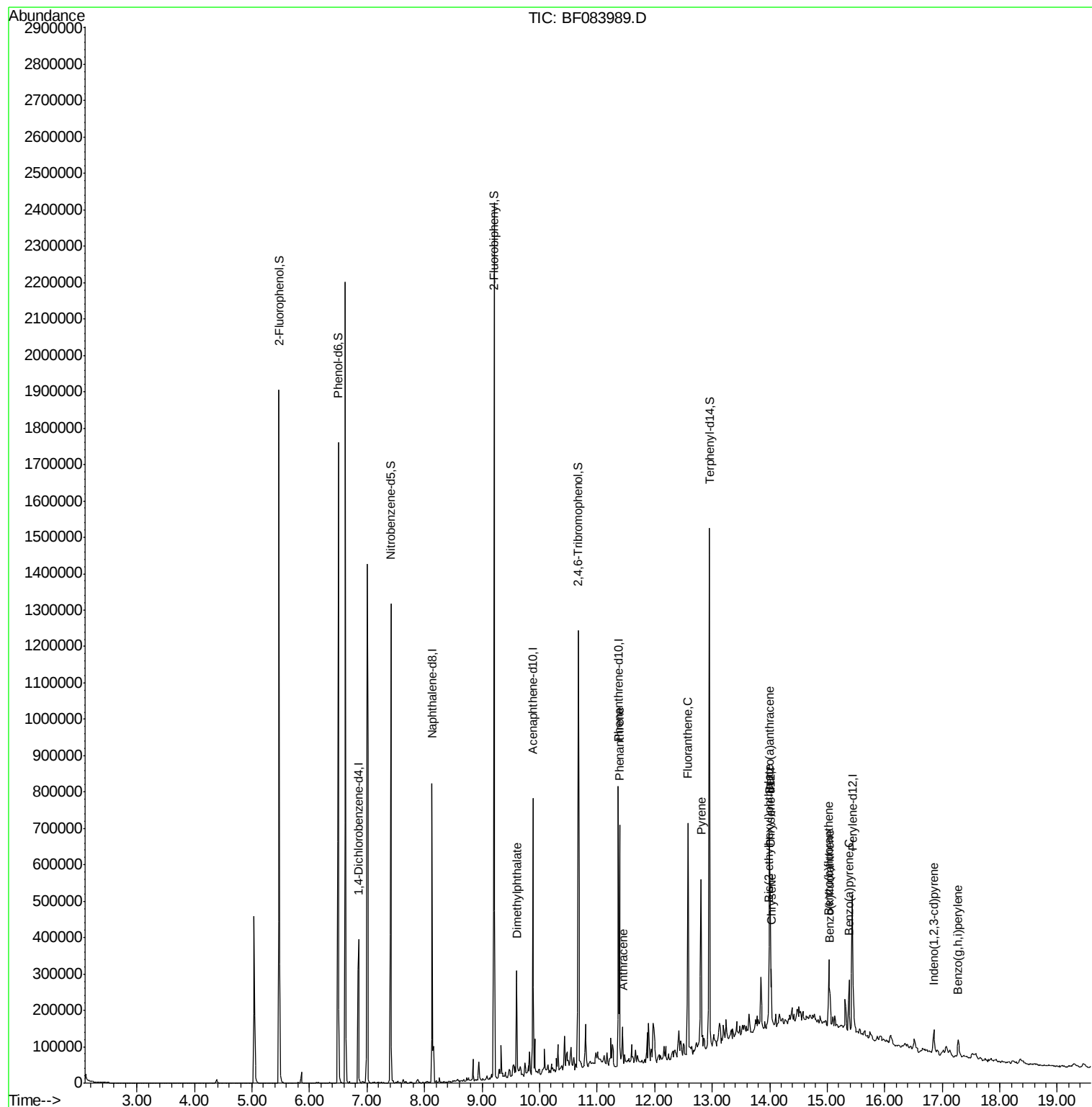
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\
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ALS Vial : 40 Sample Multiplier: 1

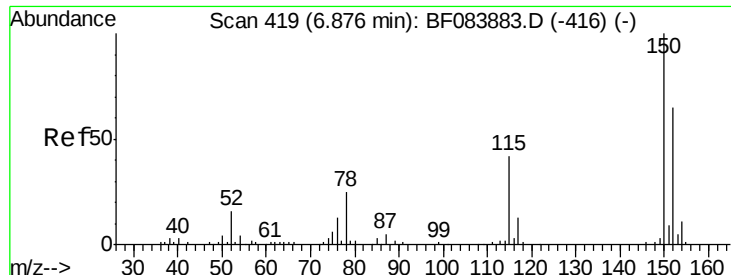
Instrument :
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Quant Time: Dec 21 04:54:52 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

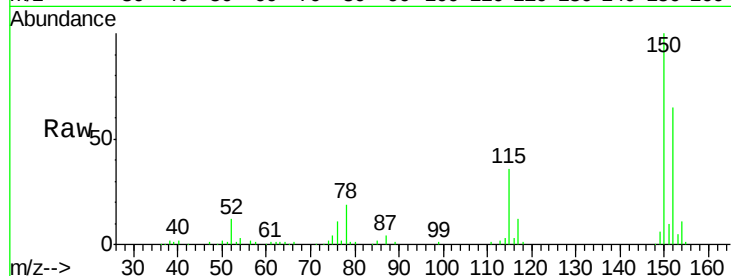
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 417
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	123.0	184.4
115	55.0	51.4	77.2

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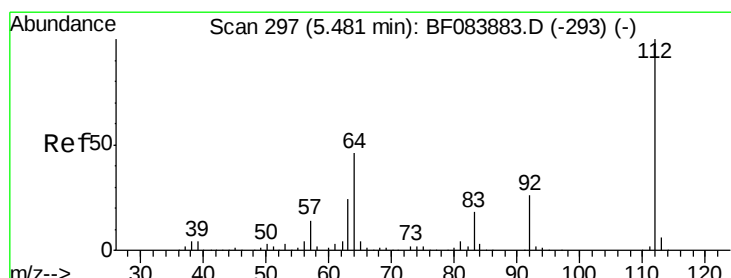
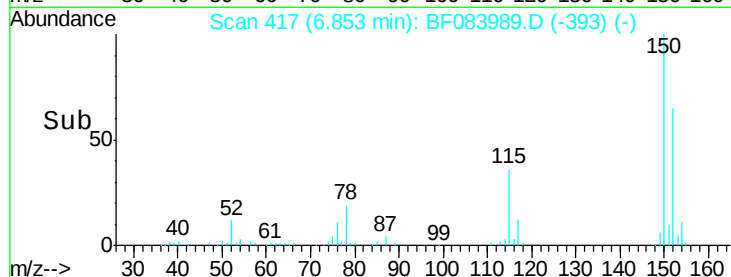
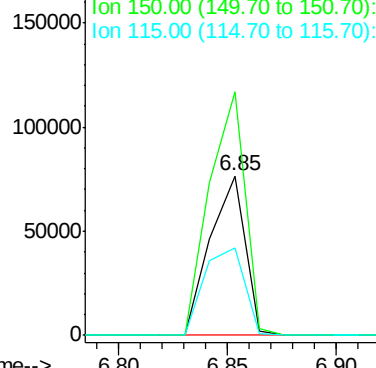


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

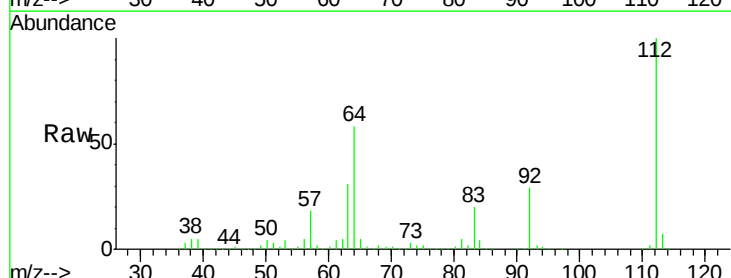
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 100.72 ng
RT: 5.47 min Scan# 296
Delta R.T. -0.01 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	36.6	55.0#
63	31.1	19.4	29.0#

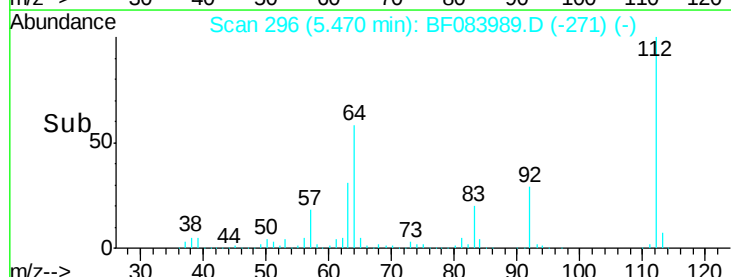
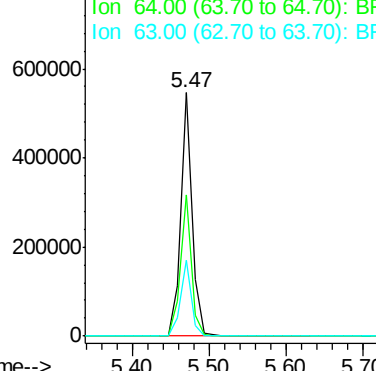


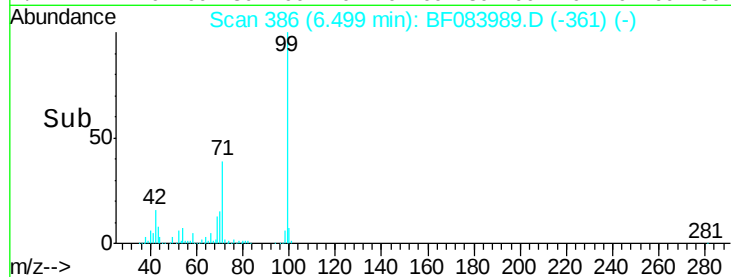
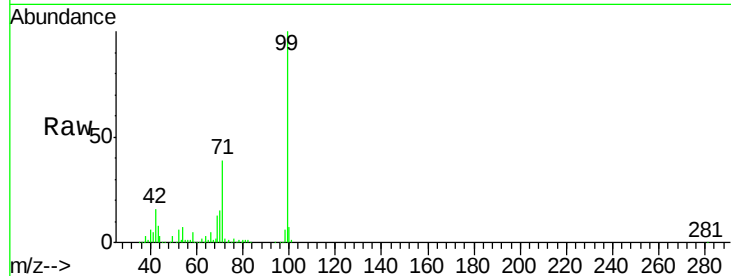
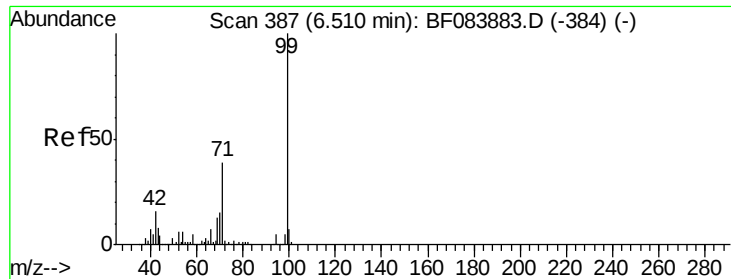
Abundance

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: 99.71 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Tot Ion:	99	Resp:	668990
Ion Ratio	Lower	Upper	
99	100		
42	16.3	12.8	19.2
71	38.5	30.9	46.3

Instrument :

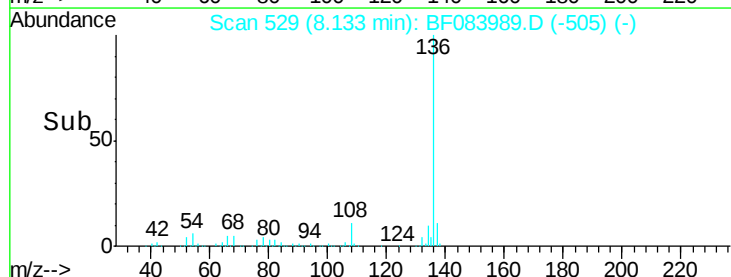
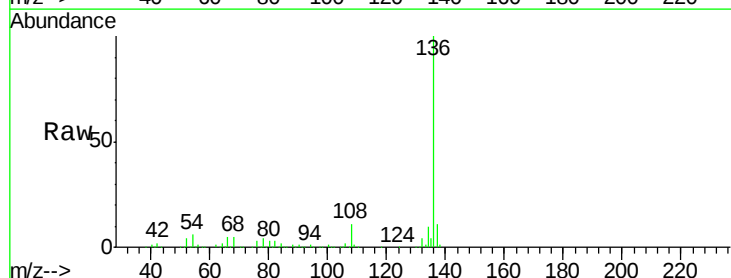
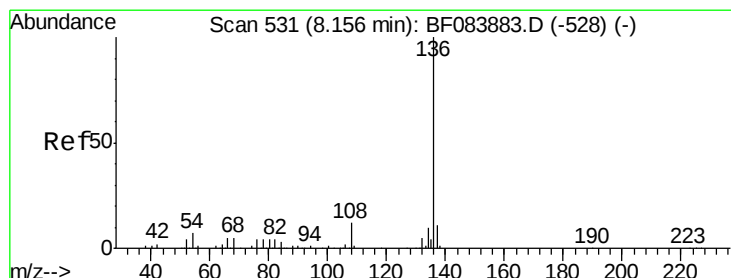
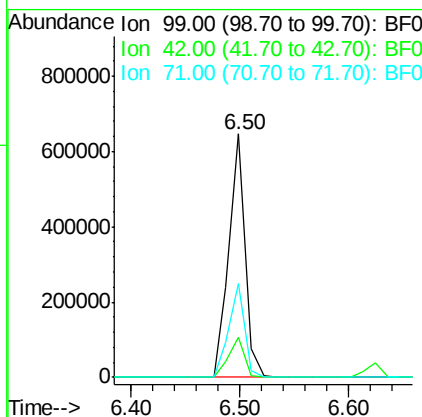
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#21

Naphthalene-d8

Concen: 20.00 ng

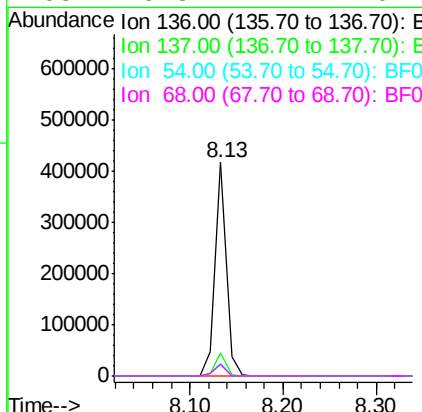
RT: 8.13 min Scan# 529

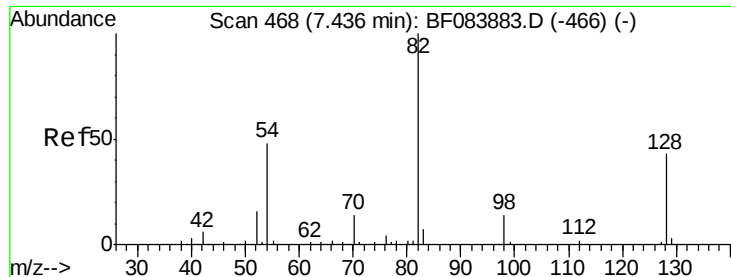
Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Tgt Ion:	136	Resp:	348773
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.7	13.1
54	6.2	5.8	8.8
68	5.3	4.2	6.2





#23

Nitrobenzene-d5

Concen: 71.68 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

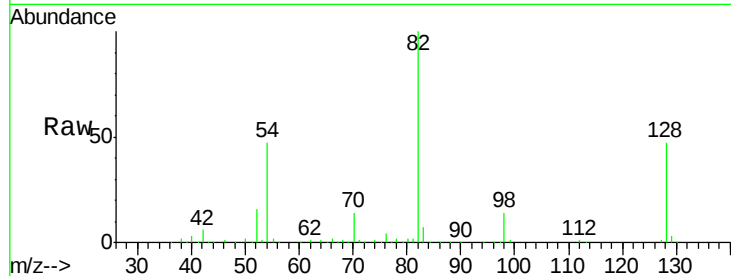
ClientSampleId :

LIBERTY-SF-121815

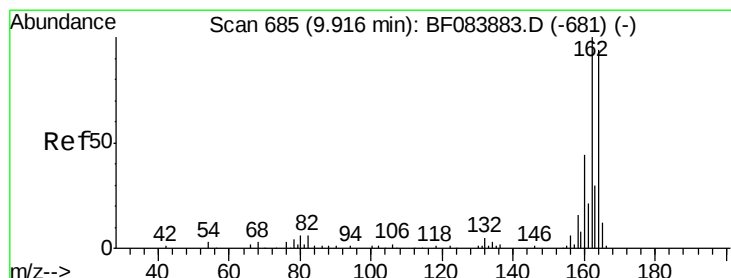
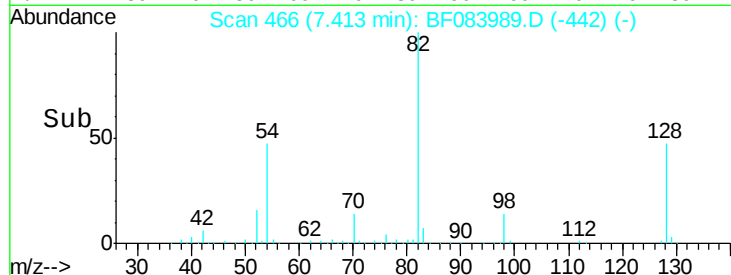
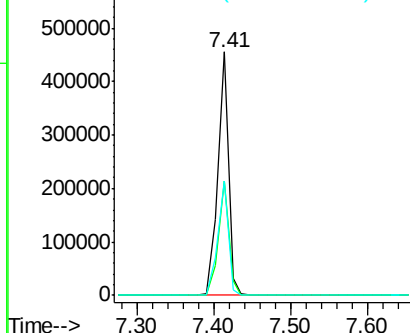
Tot Ion:	82	Resp:	438060
Ion Ratio	Lower	Upper	
82	100		
128	46.9	34.6	51.8
54	47.0	38.4	57.6

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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

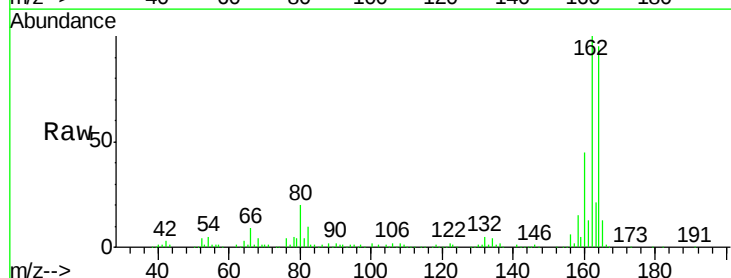
RT: 9.88 min Scan# 682

Delta R.T. -0.03 min

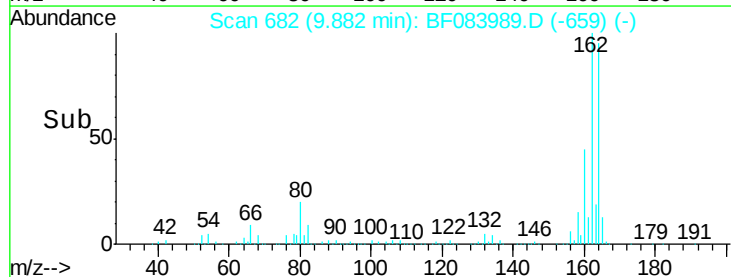
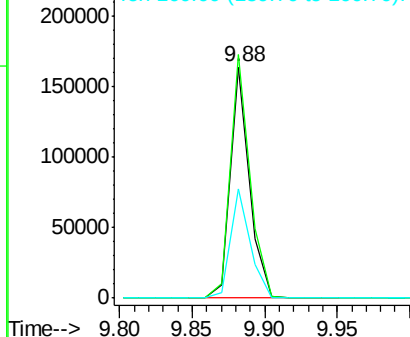
Lab File: BF083989.D

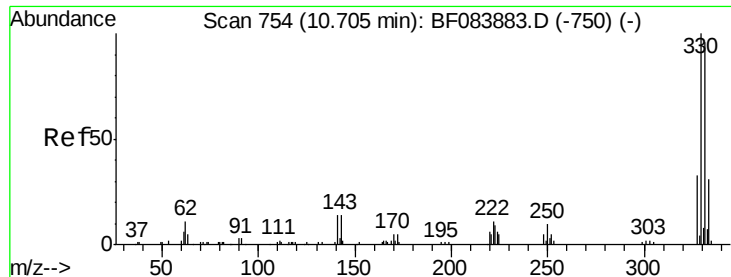
Acq: 20 Dec 2015 9:36

Tgt Ion:	164	Resp:	149254
Ion Ratio	Lower	Upper	
164	100		
162	105.3	85.1	127.7
160	47.0	37.5	56.3



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





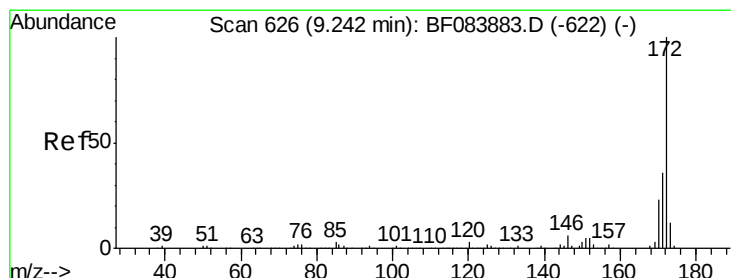
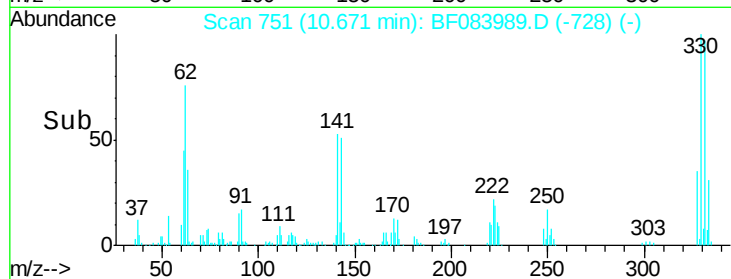
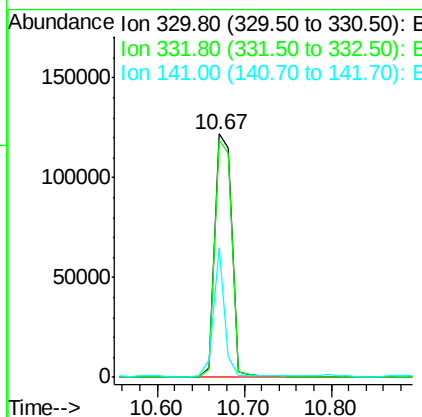
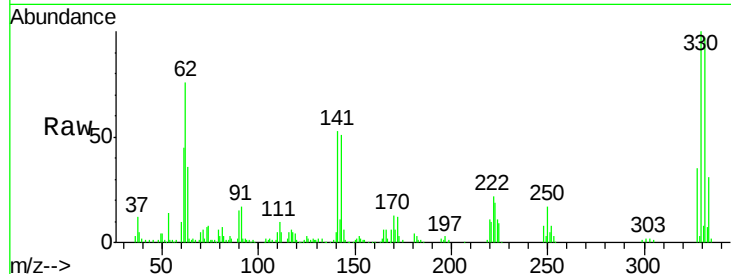
#41
 2,4,6-Tribromophenol
 Concen: 103.86 ng
 RT: 10.67 min Scan# 751
 Delta R.T. -0.03 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

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Tot Ion	Ratio	Resp	Lower	Upper
330	100	170781		
332	97.5	76.6	114.8	
141	33.8	27.8	41.6	

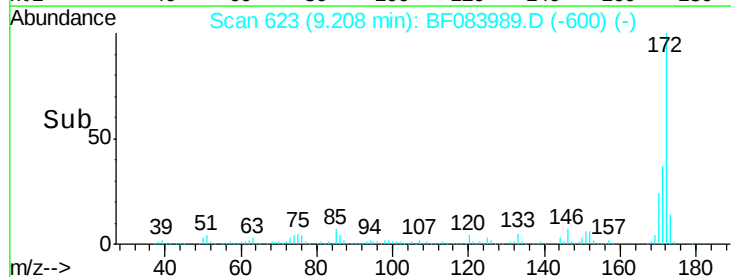
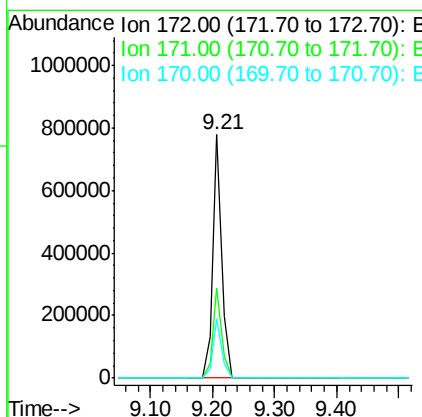
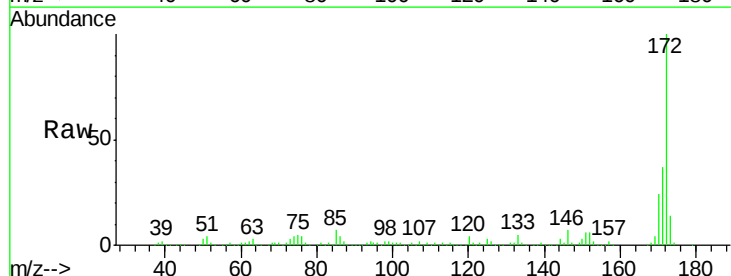
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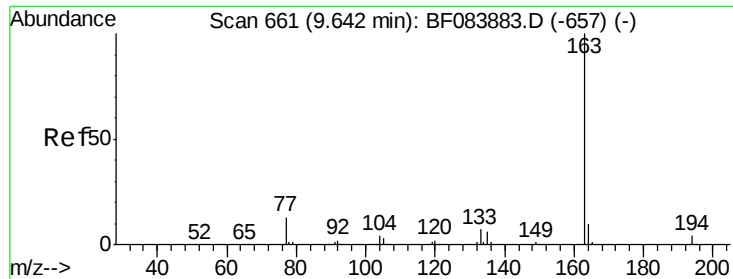
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#44
 2-Fluorobiphenyl
 Concen: 70.73 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.03 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	772028		
171	36.8	28.9	43.3	
170	24.2	18.6	27.8	





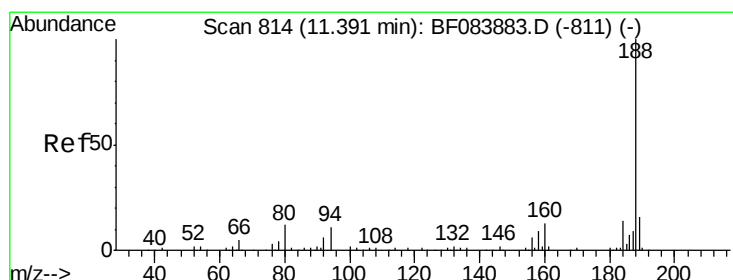
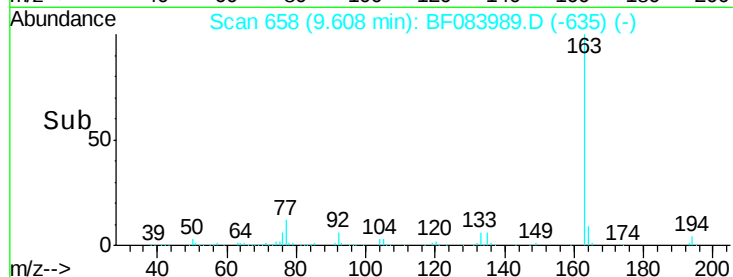
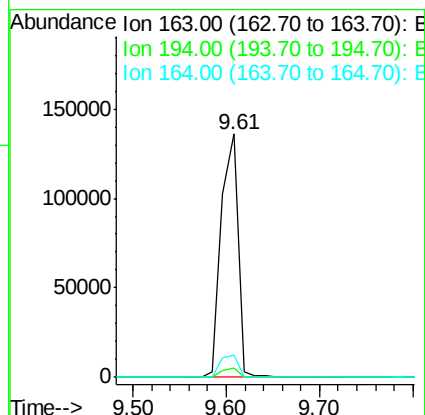
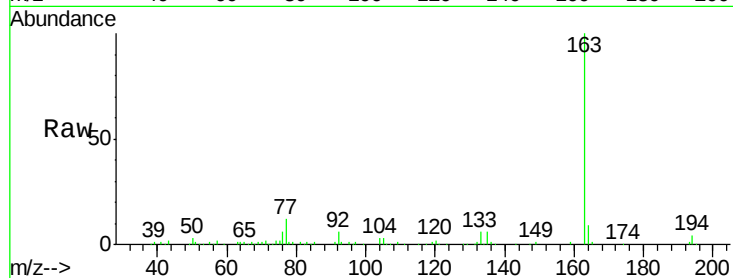
#49
Dimethylphthalate
Concen: 13.57 ng
RT: 9.61 min Scan# 658
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	3.7	8.0	12.0#
164	9.1	8.0	12.0

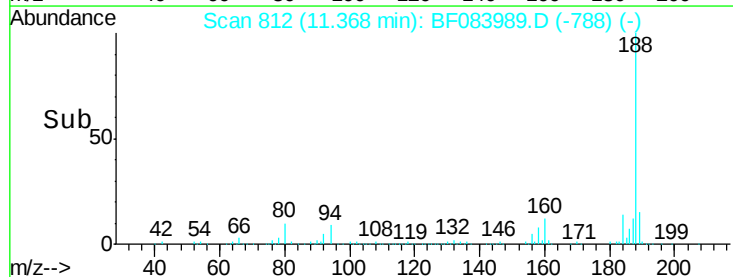
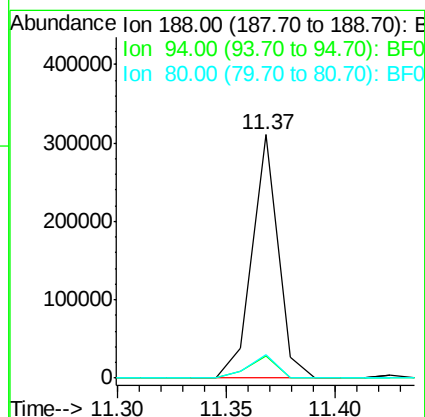
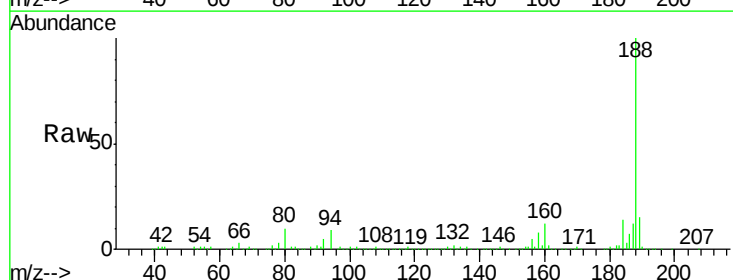
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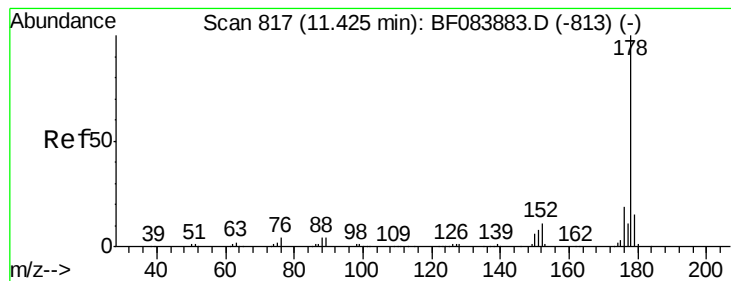
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	9.1	9.0	13.4
80	9.8	9.6	14.4





#70

Phenanthrene

Concen: 14.27 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.03 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

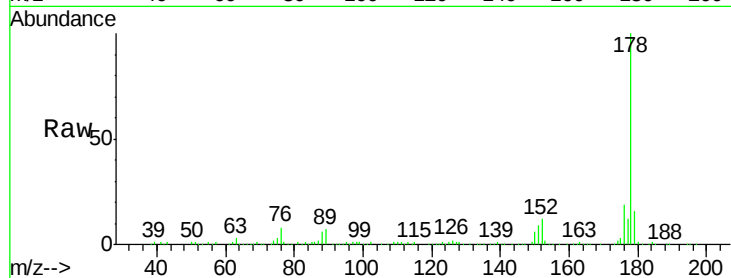
ClientSampleId :

LIBERTY-SF-121815

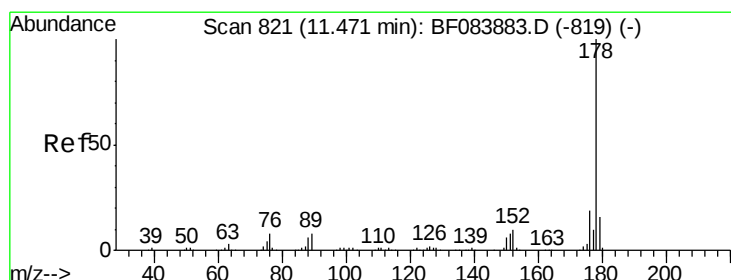
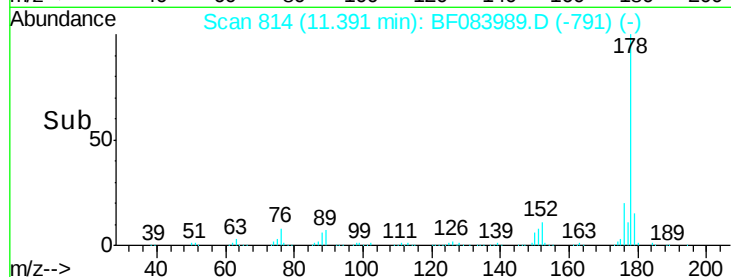
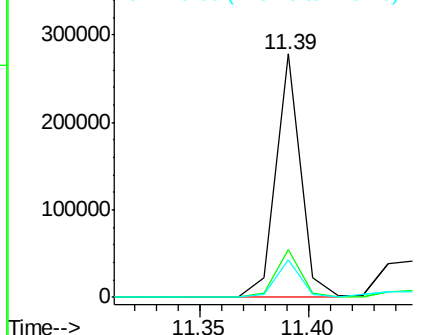
Tot Ion:178	Resp:	223075
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.3 22.9
179	15.7	12.0 18.0

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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



#71

Anthracene

Concen: 3.88 ng

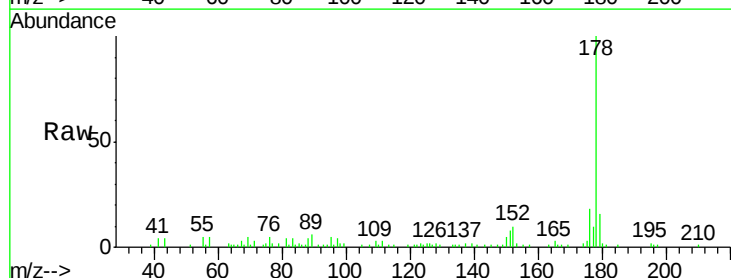
RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

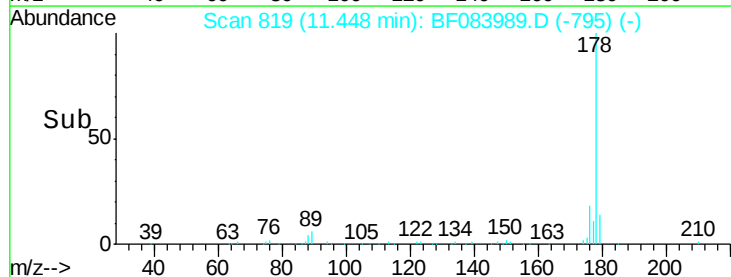
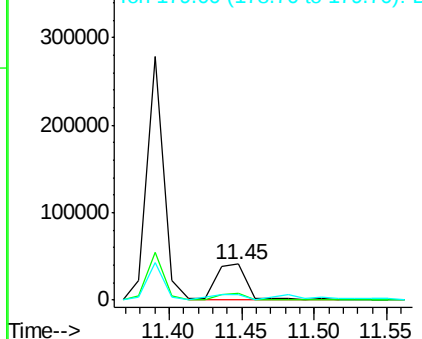
Lab File: BF083989.D

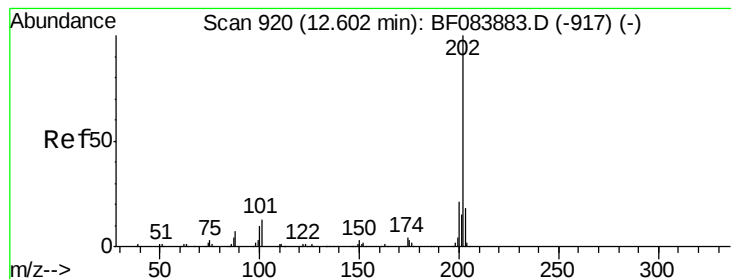
Acq: 20 Dec 2015 9:36

Tgt Ion:178	Resp:	58587
Ion Ratio	Lower	Upper
178	100	
176	18.0	15.4 23.0
179	15.9	12.5 18.7



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





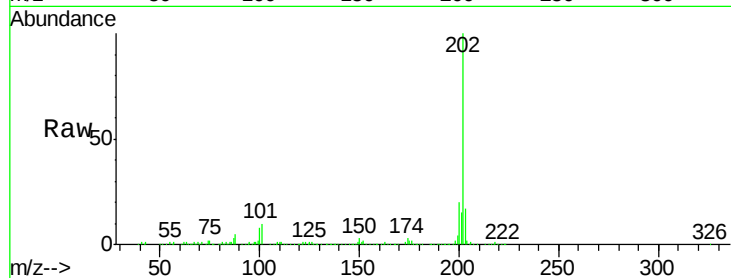
#74
 Fluoranthene
 Concen: 15.35 ng
 RT: 12.58 min Scan# 918
 Delta R.T. -0.02 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Instrument :
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 LIBERTY-SF-121815

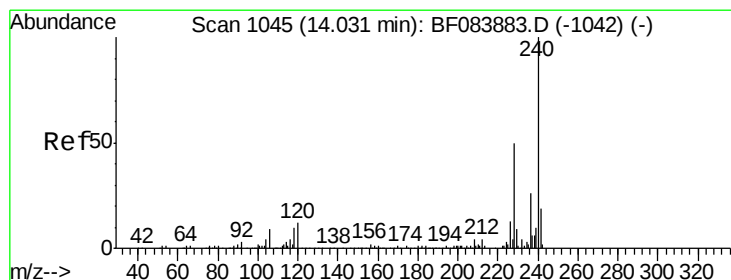
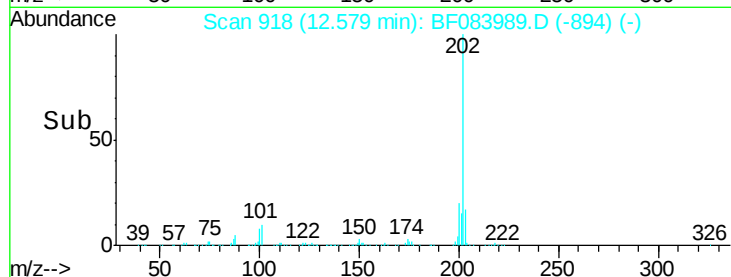
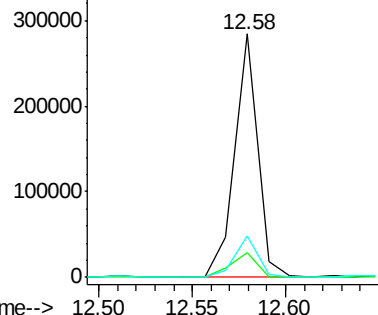
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.2	0.0	32.8
203	17.3	0.0	37.9

Manual Integrations
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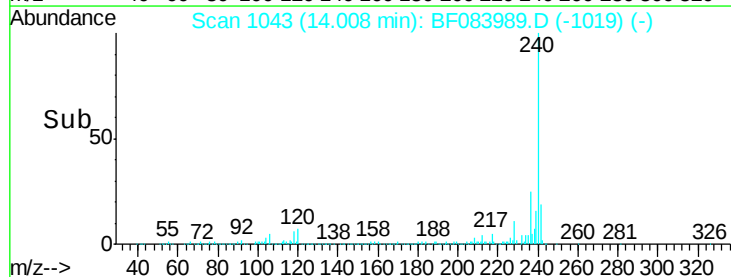
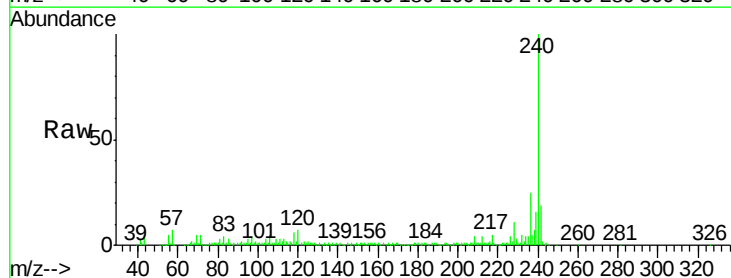
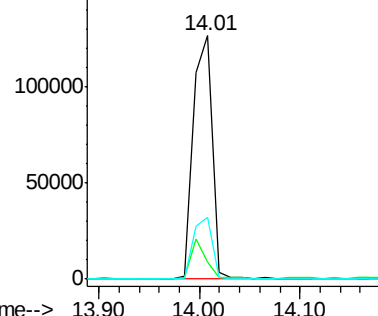
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

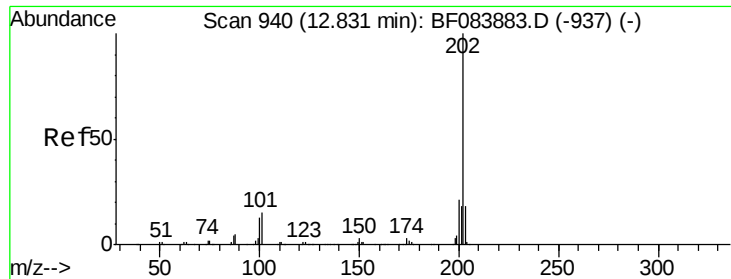


#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.02 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	7.2	9.5	14.3#
236	25.2	20.6	31.0

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





#77

Pvrene

Concen: 19.79 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

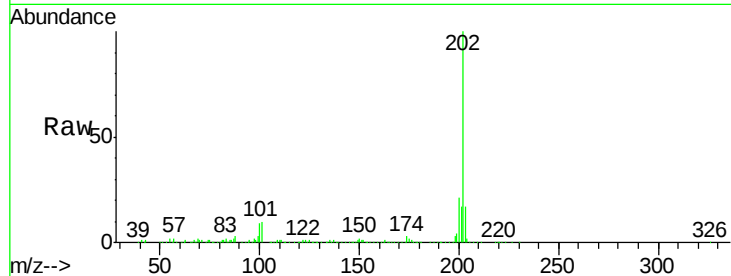
ClientSampleId :

LIBERTY-SF-121815

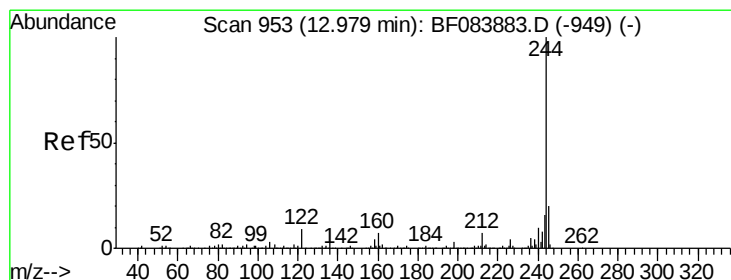
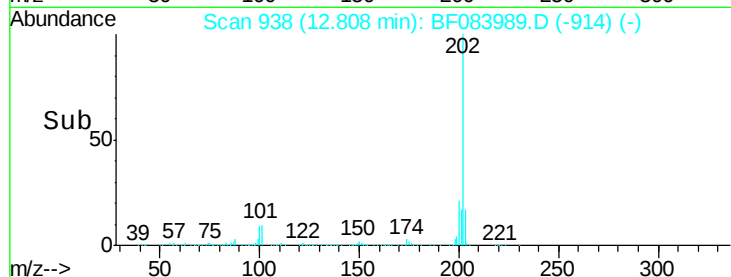
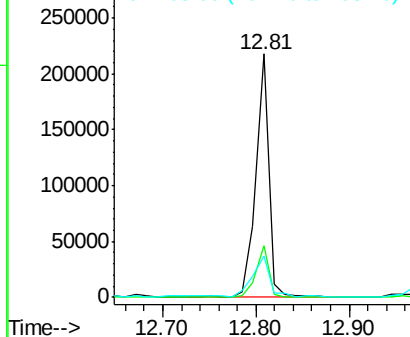
Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.0	17.2	25.8
203	17.2	14.3	21.5

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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: 94.48 ng

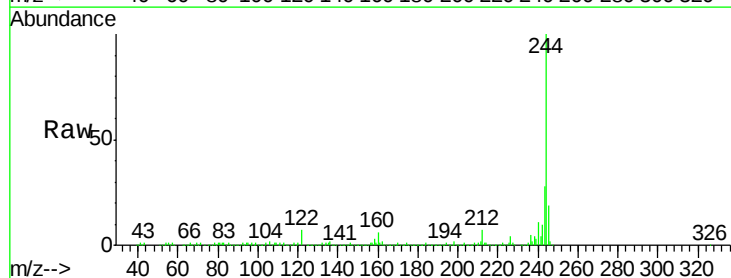
RT: 12.96 min Scan# 951

Delta R.T. -0.02 min

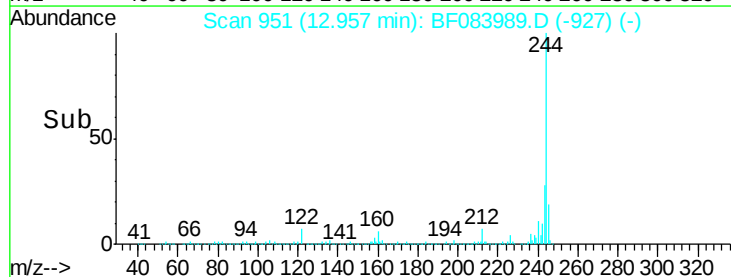
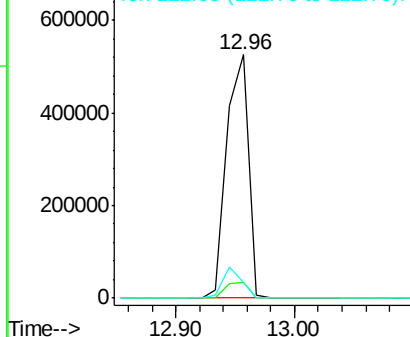
Lab File: BF083989.D

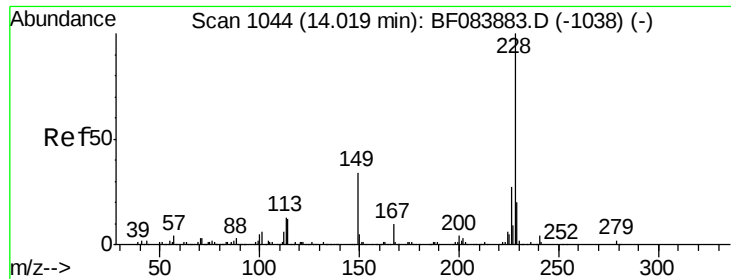
Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.6	5.7	8.5
122	6.6	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





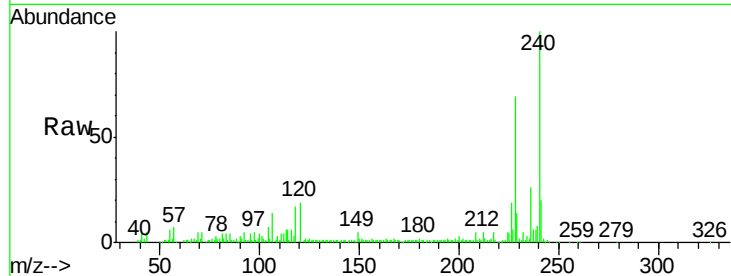
#80
Benzo(a)anthracene
Concen: 8.54 ng m
RT: 14.00 min Scan# 1042
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.8	32.6
229	20.1	15.8	23.8

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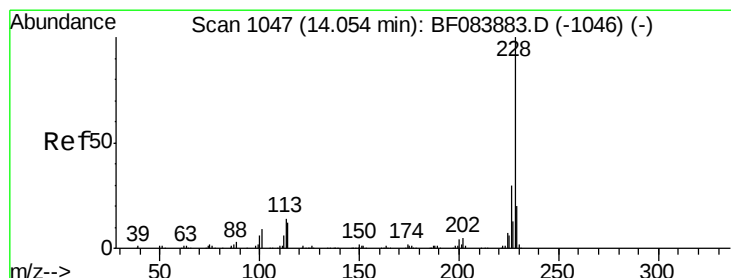
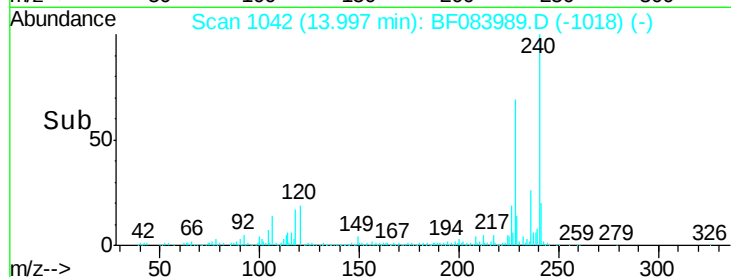
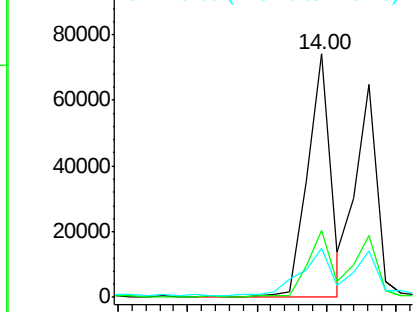


Abundance

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: 7.14 ng m
RT: 14.03 min Scan# 1045
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

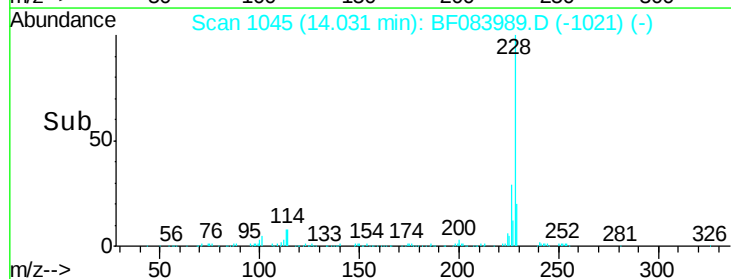
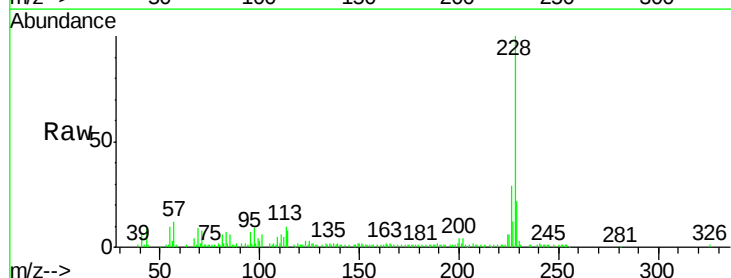
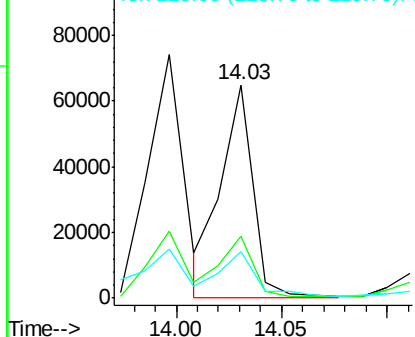
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.3	36.5
229	21.6	16.1	24.1

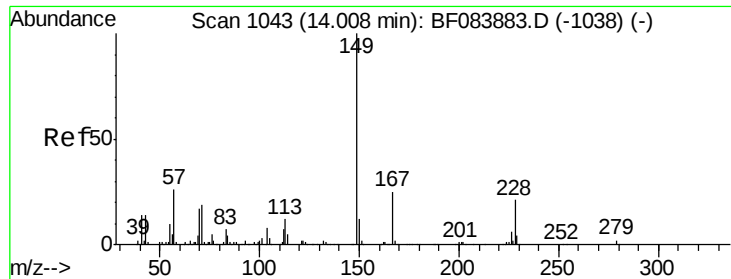
Abundance

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





#83

Bis(2-ethylhexyl)phthalate

Concen: 4.49 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

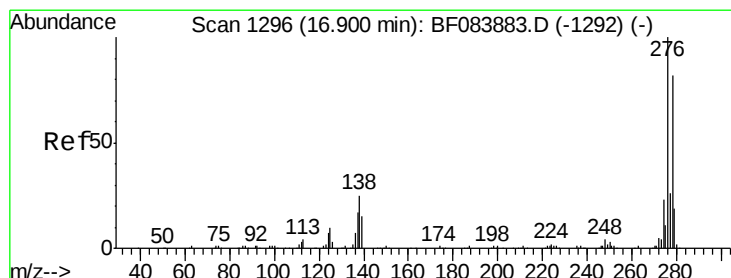
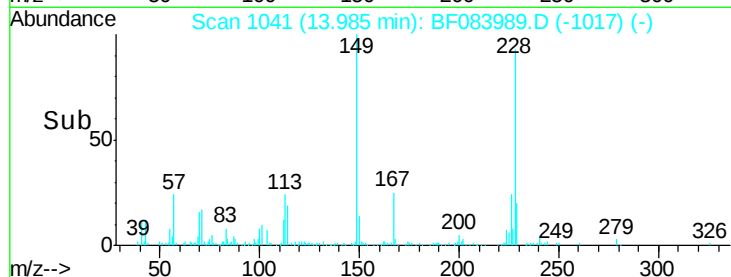
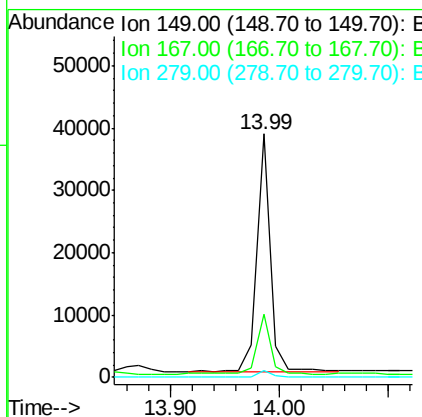
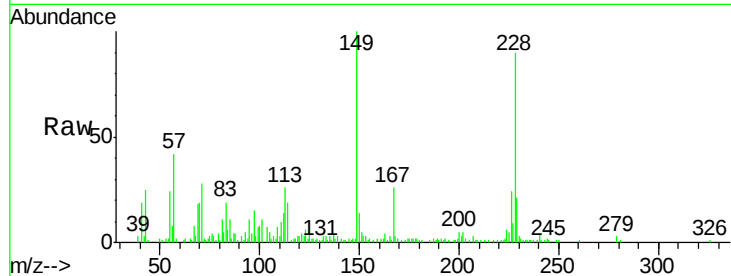
ClientSampleId :

LIBERTY-SF-121815

Tot Ion:	149	Resp:	33133
Ion Ratio	Lower	Upper	
149	100		
167	26.1	19.7	29.5
279	3.0	1.8	2.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 5.88 ng

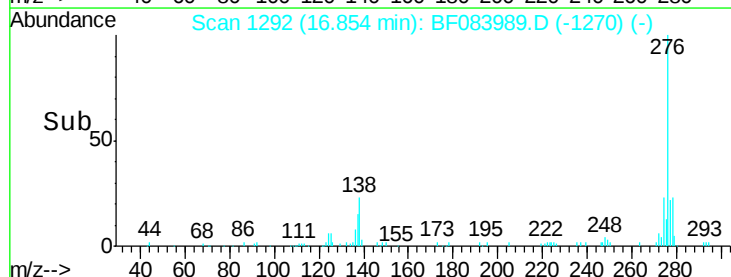
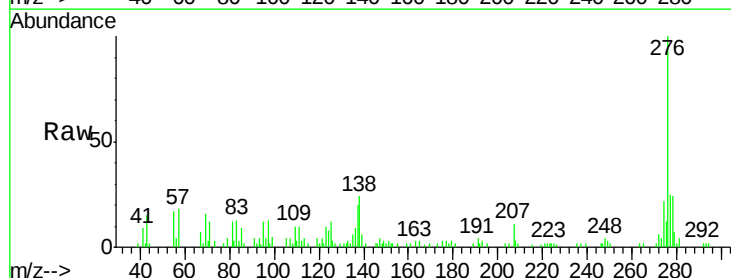
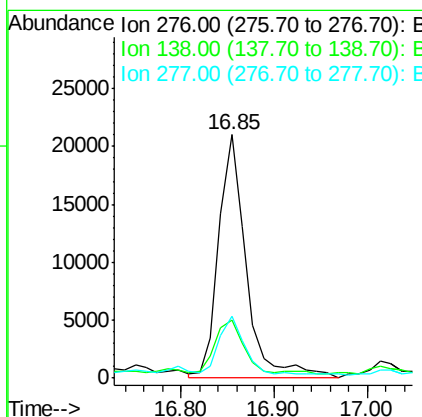
RT: 16.85 min Scan# 1292

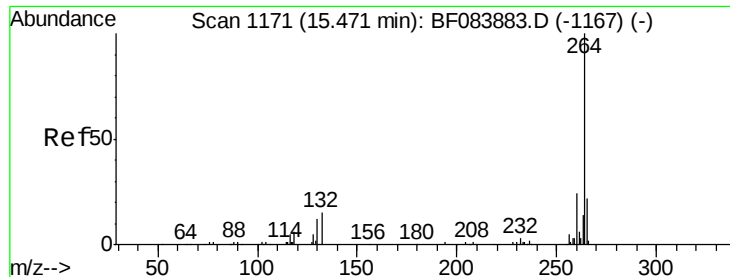
Delta R.T. -0.05 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Tgt Ion:	276	Resp:	43347
Ion Ratio	Lower	Upper	
276	100		
138	21.4	20.6	30.8
277	21.4	20.1	30.1





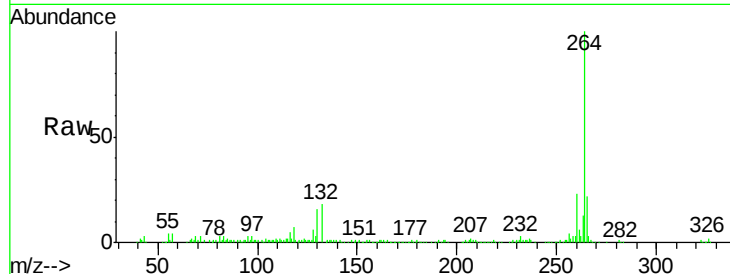
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

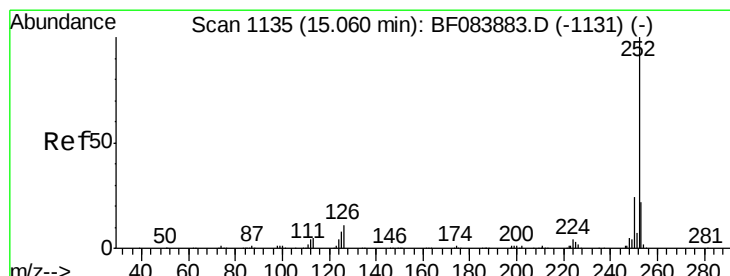
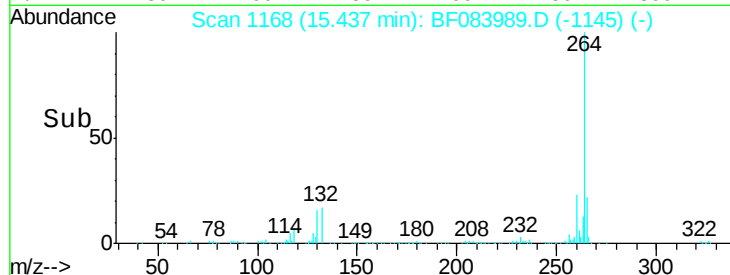
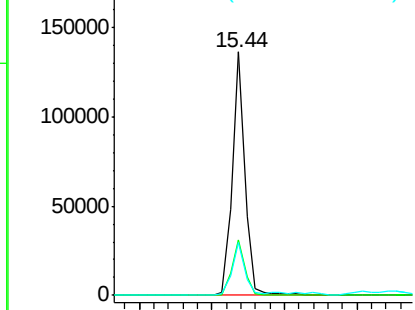
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.4	29.2
265	21.9	17.8	26.6

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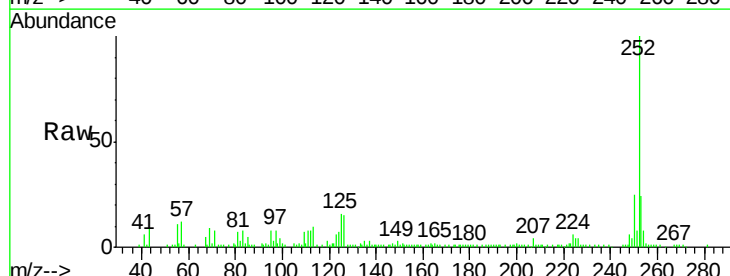


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

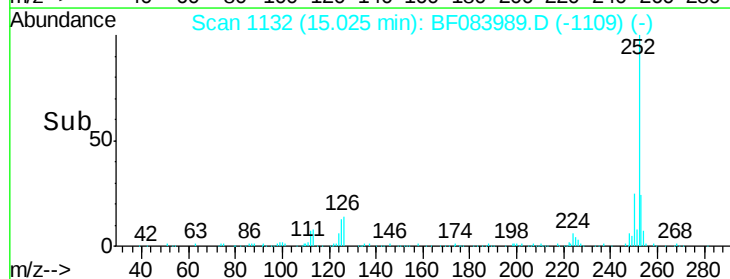
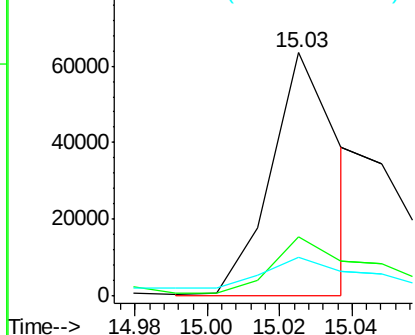


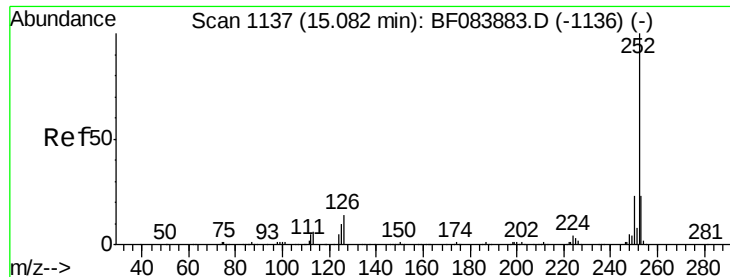
#87
Benzo(b)fluoranthene
Concen: 6.85 ng m
RT: 15.03 min Scan# 1132
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.3	25.9
125	15.9	6.5	9.7#



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





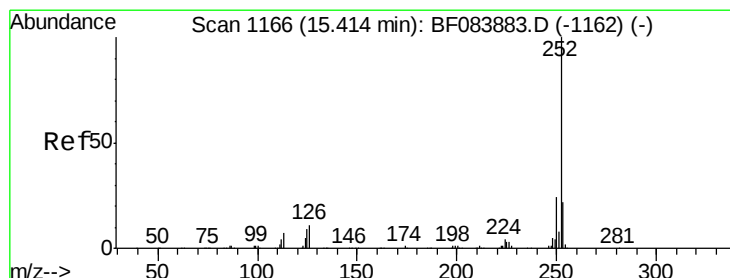
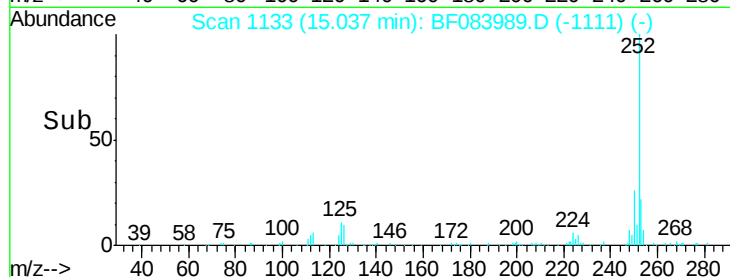
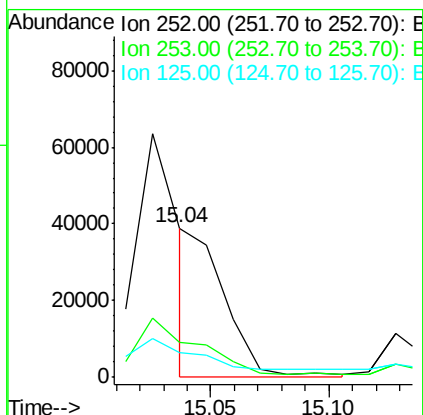
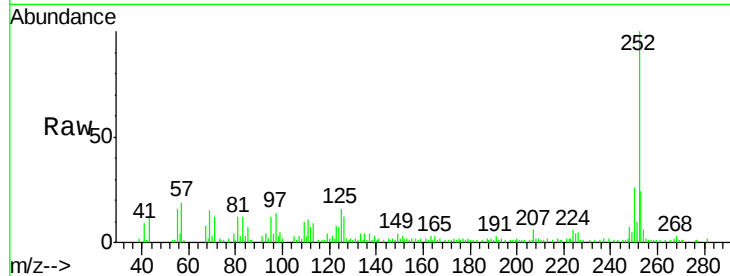
#88
Benzo(k)fluoranthene
Concen: 3.74 ng m
RT: 15.04 min Scan# 1133
Delta R.T. -0.05 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	16.2	9.0	13.6

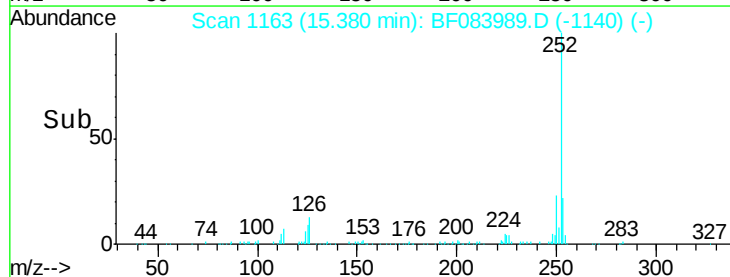
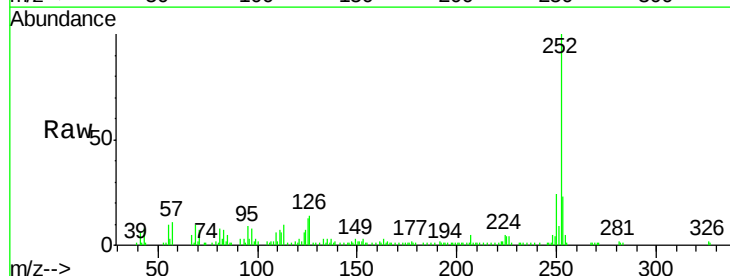
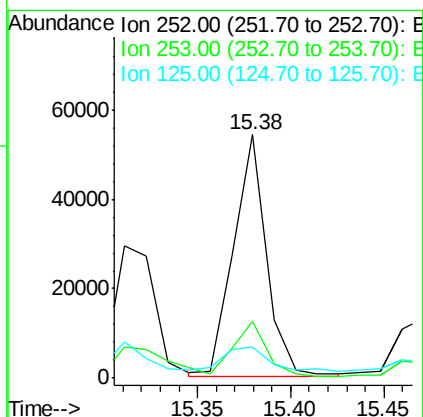
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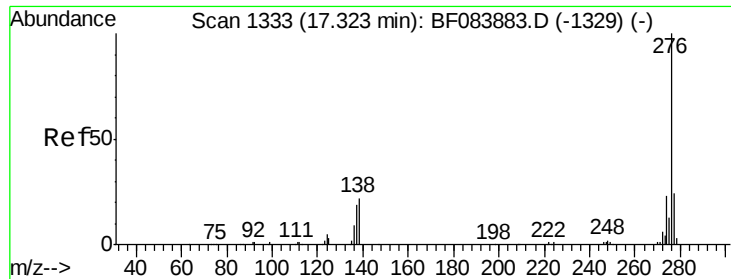
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#89
Benzo(a)pyrene
Concen: 6.67 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	13.0	7.0	10.4





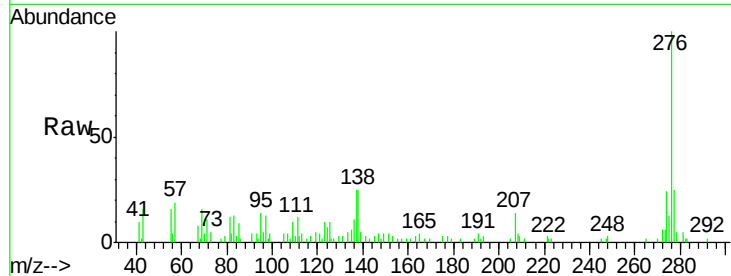
#91
 Benzo(a,h,i)perylene
 Concen: 5.23 ng
 RT: 17.28 min Scan# 1329
 Delta R.T. -0.05 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

Tot Ion:	276	Resp:	39785
Ion Ratio		Lower	Upper
276	100		
277	25.0	18.8	28.2
138	24.9	17.8	26.6

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

