

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
 Data File : BF083857.D
 Acq On : 16 Dec 2015 19:25
 Operator : UM/SJ
 Sample : G4836-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Manual Integrations
 APPROVED

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

Quant Time: Dec 17 04:22:25 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	84754	20.00	ng	-0.03
21) Naphthalene-d8	8.18	136	338927	20.00	ng	-0.03
38) Acenaphthene-d10	9.93	164	173273	20.00	ng	-0.03
63) Phenanthrene-d10	11.41	188	290347	20.00	ng	-0.03
75) Chrysene-d12	14.04	240	204128	20.00	ng	-0.03
86) Perylene-d12	15.48	264	166120	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	557240	106.07	ng	-0.02
7) Phenol-d6	6.52	99	705903	106.10	ng	-0.02
23) Nitrobenzene-d5	7.45	82	421681	69.61	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	195845	110.92	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	891819	72.06	ng	-0.03
78) Terphenyl-d14	12.99	244	681646	71.83	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.64	163	173393	12.84	ng	99
70) Phenanthrene	11.44	178	40116	2.60	ng	98
74) Fluoranthene	12.61	202	70479	4.42	ng	94
77) Pyrene	12.84	202	71349	4.42	ng	99
80) Benzo(a)anthracene	14.03	228	27252m	2.35	ng	
82) Chrysene	14.07	228	25990m	2.30	ng	
87) Benzo(b)fluoranthene	15.06	252	28869m	2.72	ng	
89) Benzo(a)pyrene	15.41	252	19441	2.06	ng	# 89

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

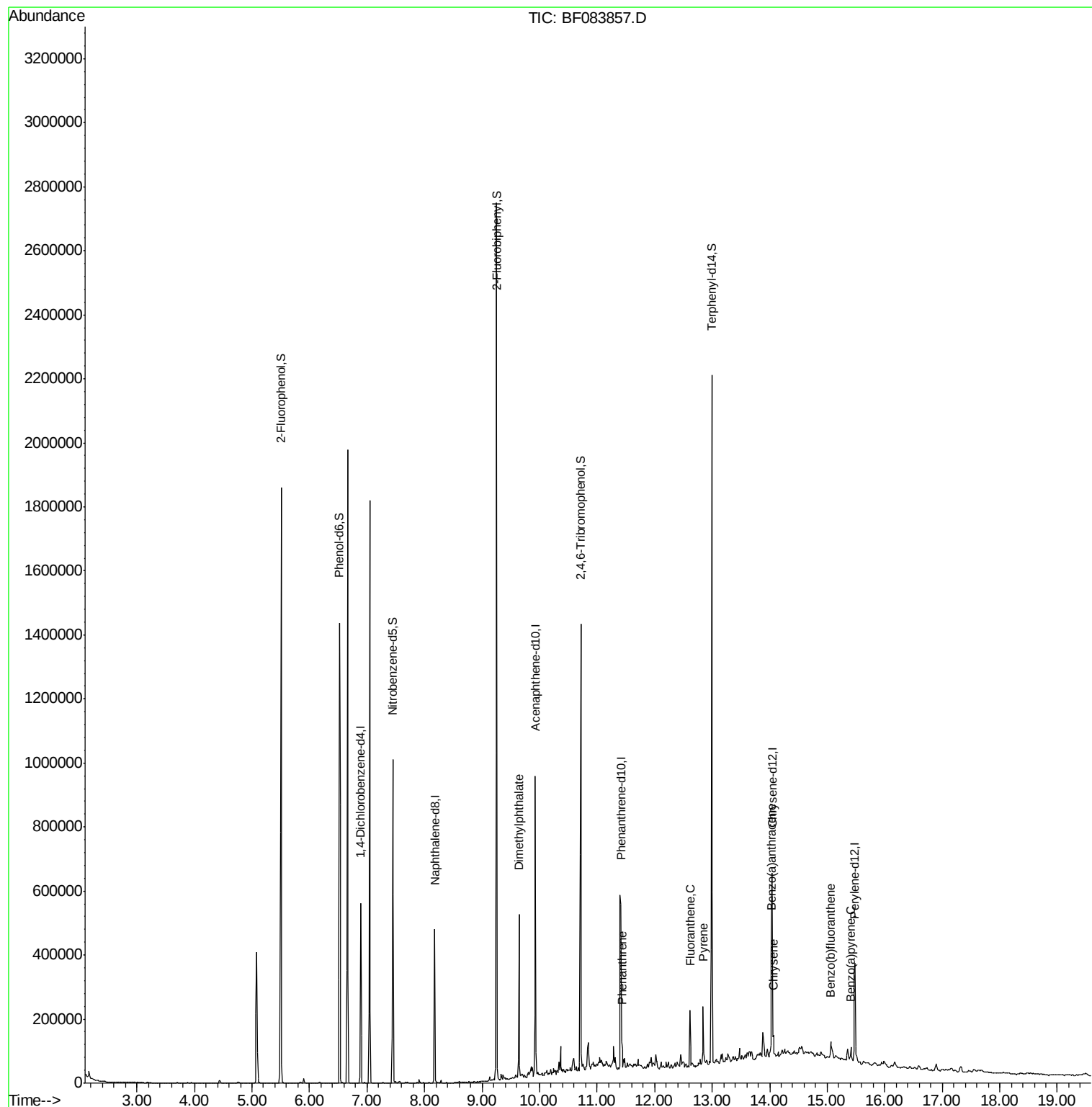
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083857.D
Acq On : 16 Dec 2015 19:25
Operator : UM/SJ
Sample : G4836-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

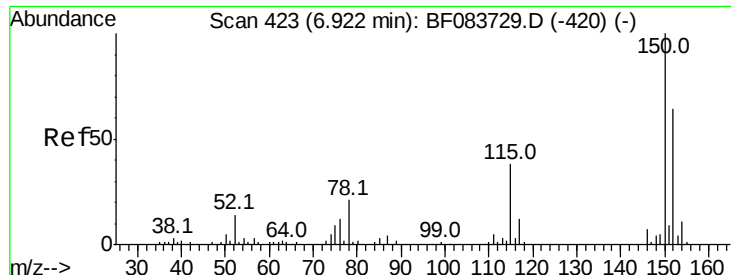
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

Manual Integrations
APPROVED

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

Quant Time: Dec 17 04:22:25 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: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

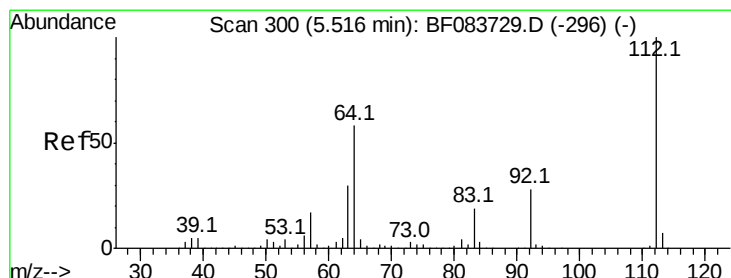
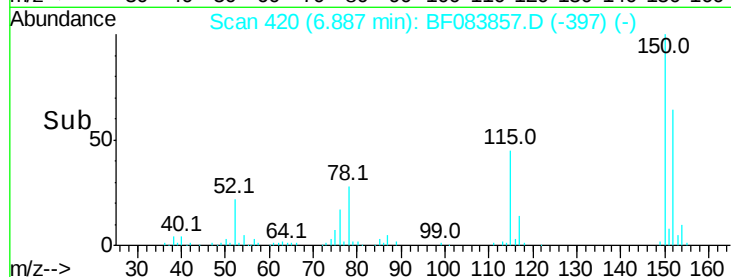
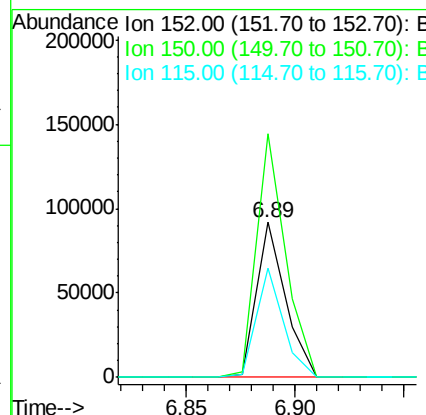
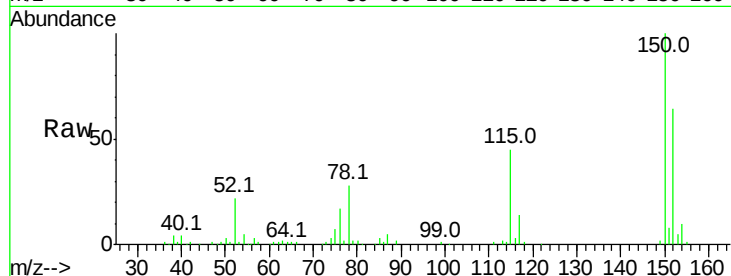
ClientSampleId :

LIBERTY-SF-004

Tot Ion:	152	Resp:	84754
Ion Ratio	Lower	Upper	
152	100		
150	157.4	126.5	189.7
115	70.8	52.3	78.5

Manual Integrations
APPROVED

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



#5

2-Fluorophenol

Concen: 106.07 ng

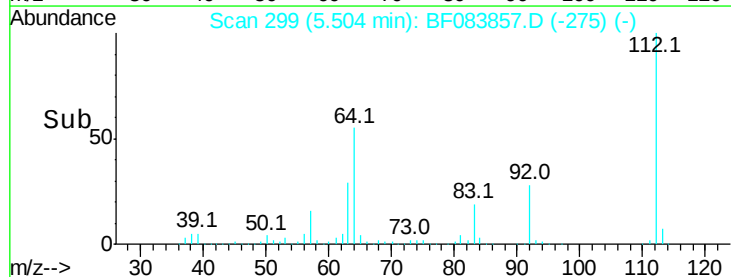
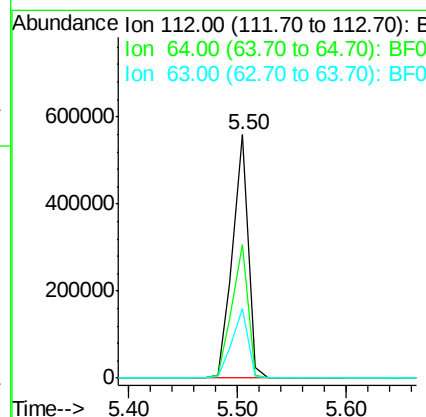
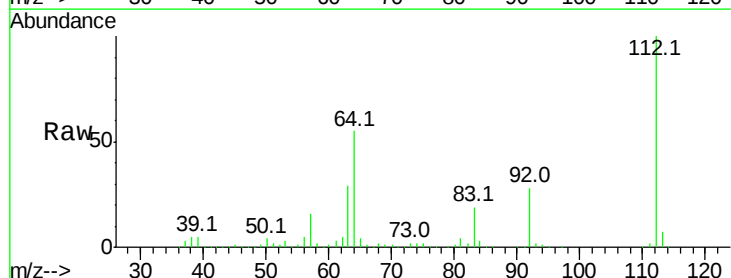
RT: 5.50 min Scan# 299

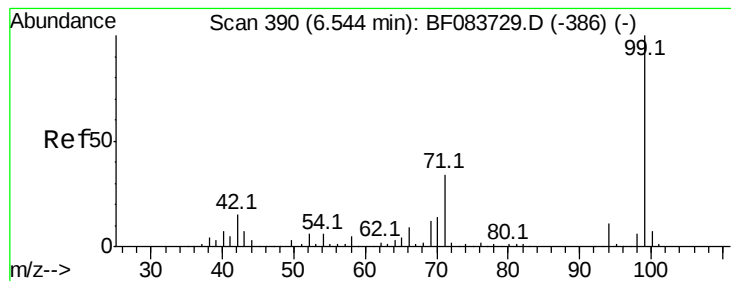
Delta R.T. -0.02 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Tgt Ion:	112	Resp:	557240
Ion Ratio	Lower	Upper	
112	100		
64	54.6	50.5	75.7
63	28.8	25.8	38.6





#7

Phenol-d6

Concen: 106.10 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

ClientSampleId :

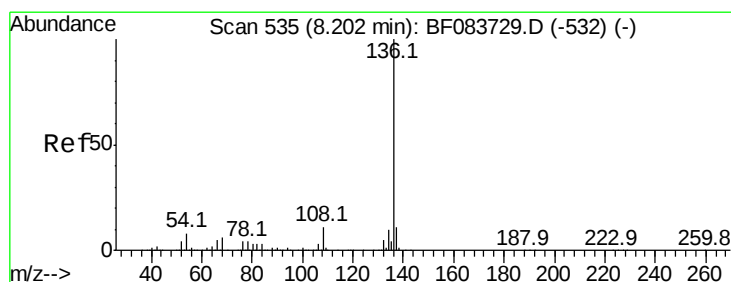
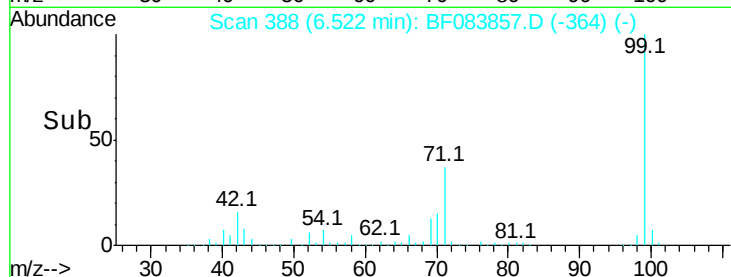
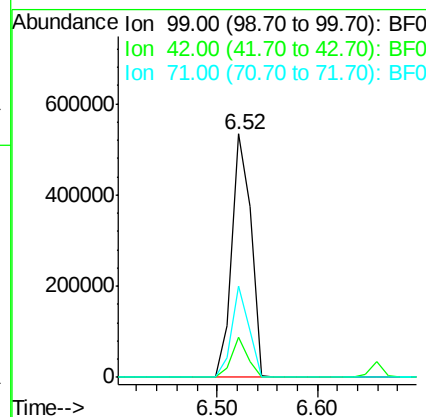
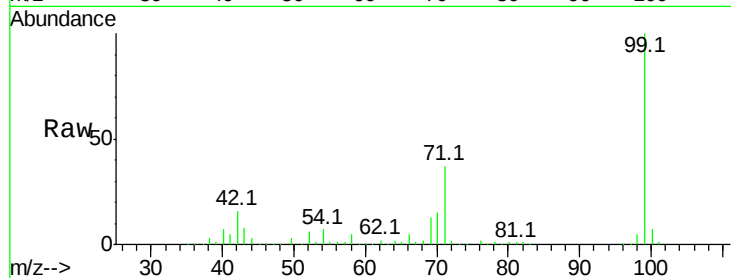
LIBERTY-SF-004

Tot Ion: 99 Resp: 705903

Ion	Ratio	Lower	Upper
99	100		
42	16.3	17.3	25.9#
71	37.3	26.6	40.0

Manual Integrations
APPROVED

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

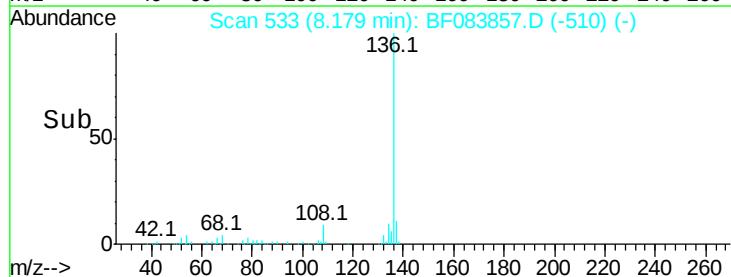
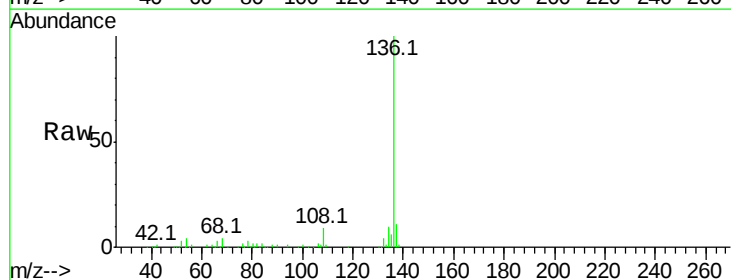
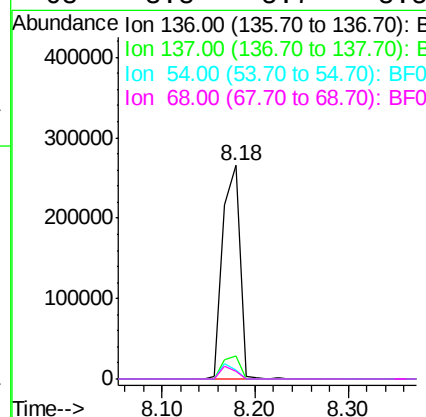
Delta R.T. -0.03 min

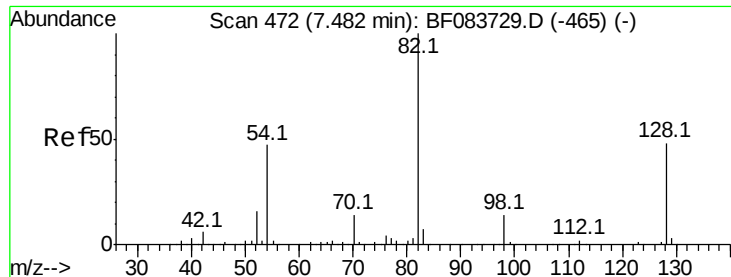
Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Tgt Ion: 136 Resp: 338927

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.7	13.1
54	4.3	7.8	11.6#
68	3.8	5.7	8.5#





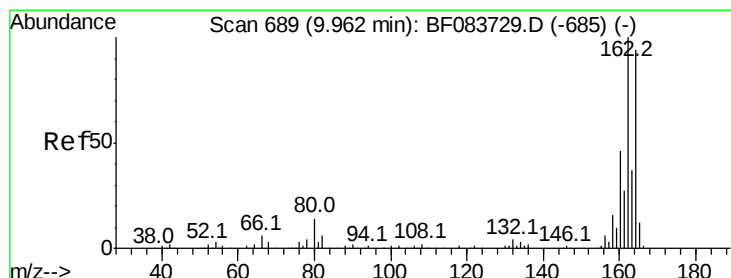
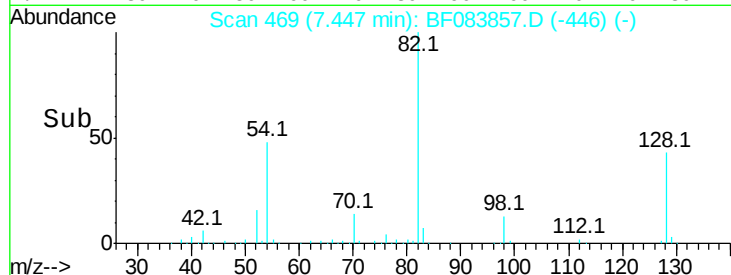
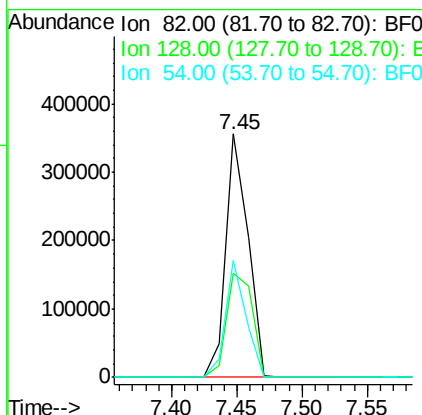
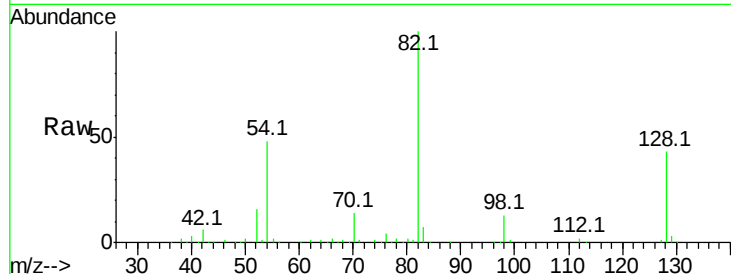
#23
Nitrobenzene-d5
Concen: 69.61 ng
RT: 7.45 min Scan# 469
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

Tot Ion	Ratio	Resp	Lower	Upper
82	100	421681		
128	42.6	30.7	46.1	
54	47.8	42.5	63.7	

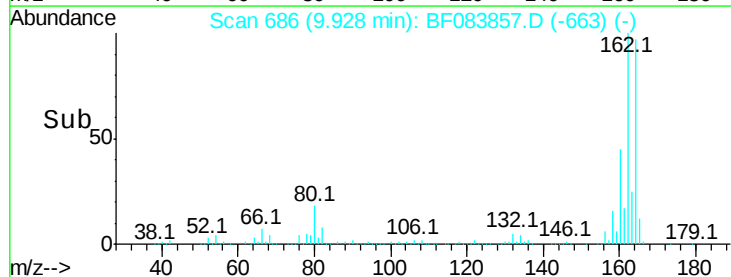
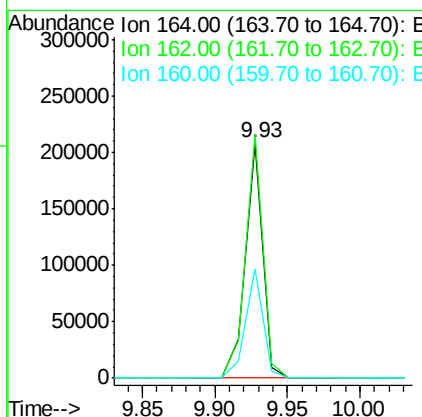
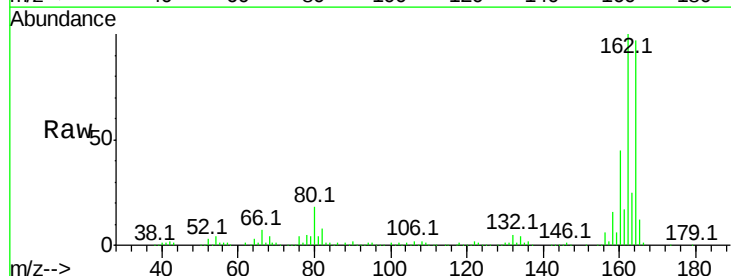
Manual Integrations
APPROVED

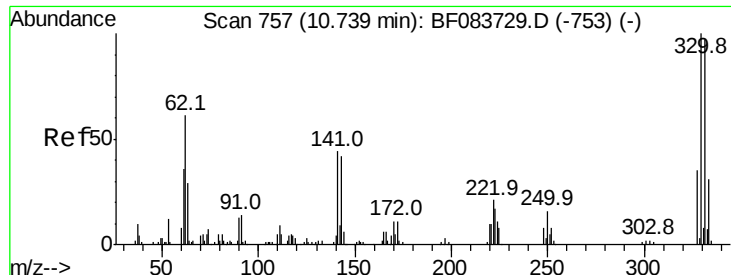
MMdadoda
12/17/2015 5:34:17 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	173273		
162	103.5	78.8	118.2	
160	46.5	33.4	50.2	





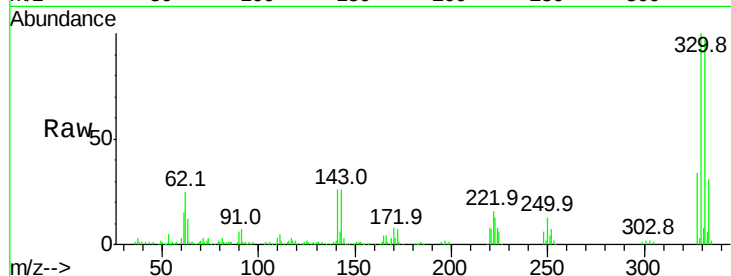
#41
 2,4,6-Tribromophenol
 Concen: 110.92 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

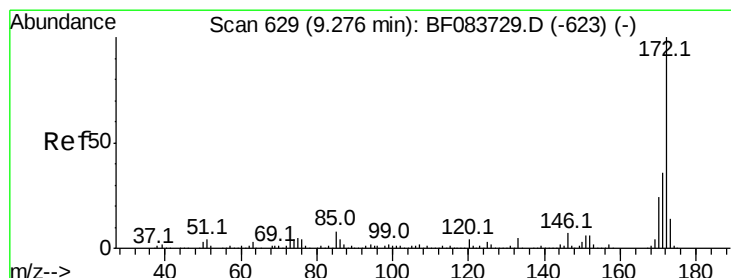
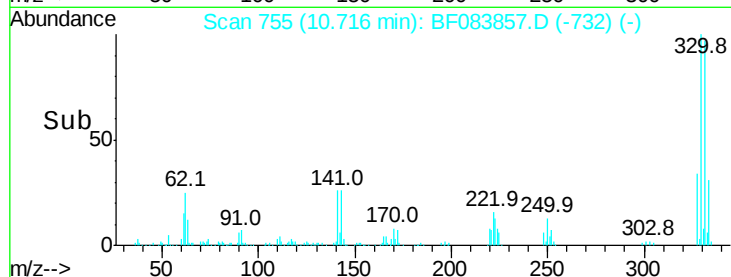
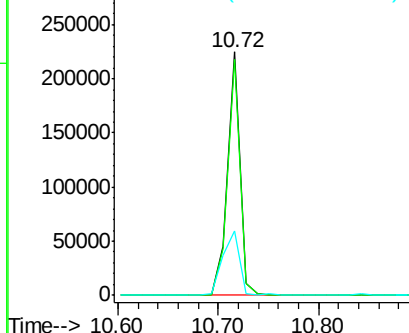
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.5	0.0	0.0#
141	35.0	0.0	0.0#

Manual Integrations
 APPROVED

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

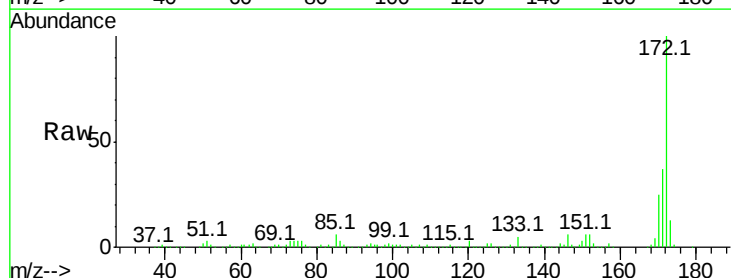


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

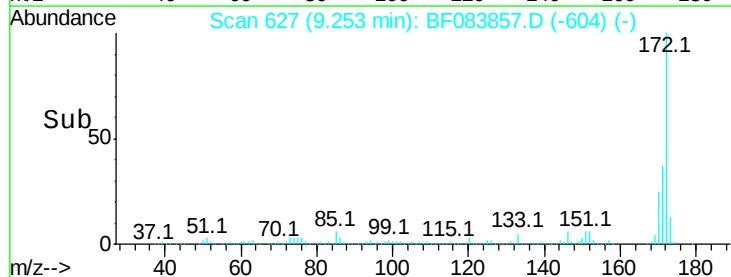
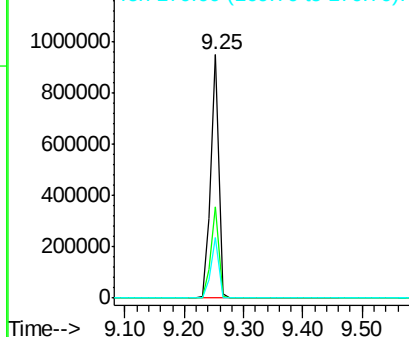


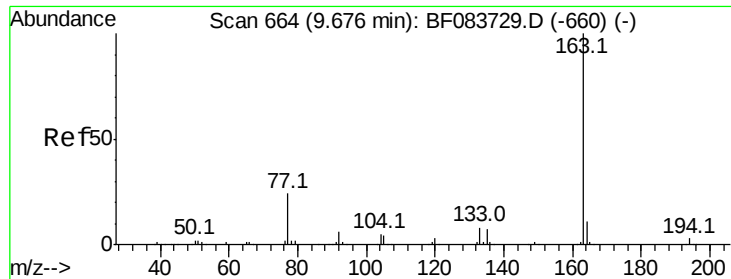
#44
 2-Fluorobiphenyl
 Concen: 72.06 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	37.4	28.6	42.8
170	24.8	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





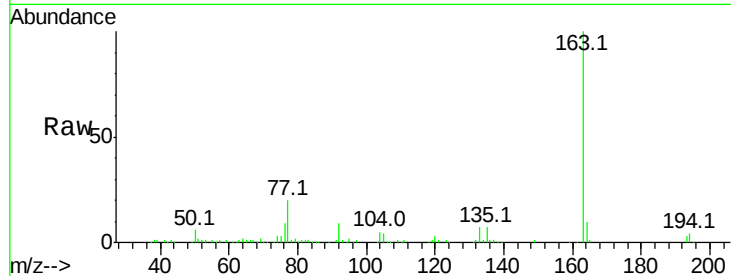
#49
Dimethylphthalate
Concen: 12.84 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.05 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	2.8	4.2	
164	10.1	8.6	13.0	

Manual Integrations
APPROVED

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

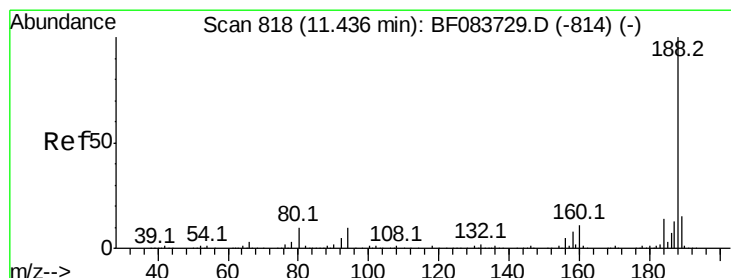
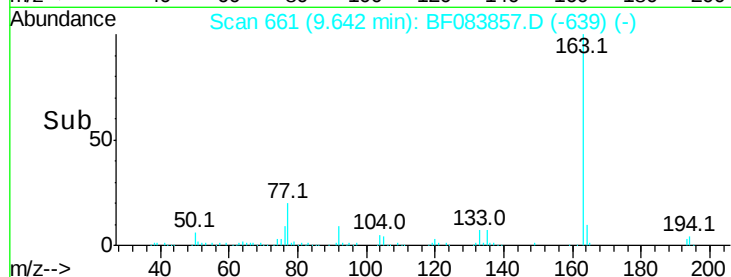
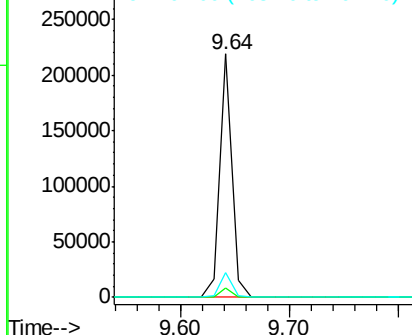


Abundance

Ion 163.00 (162.70 to 163.70): E

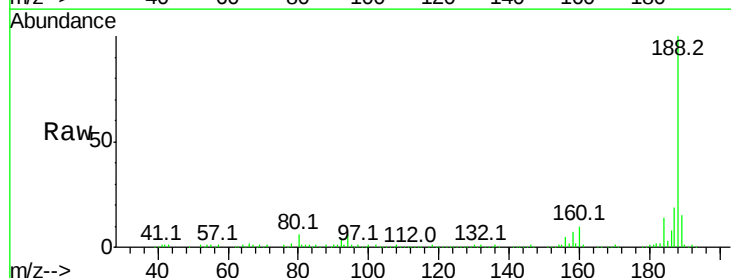
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	6.1	9.4	14.2#	
80	6.0	10.6	16.0#	

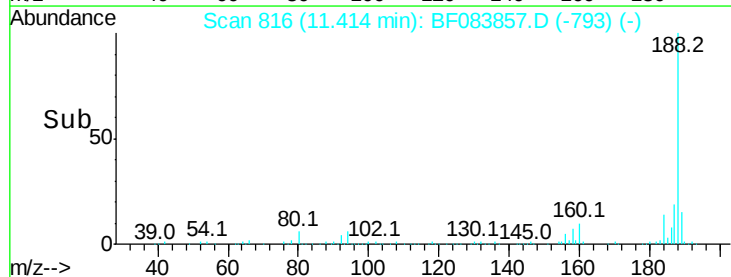
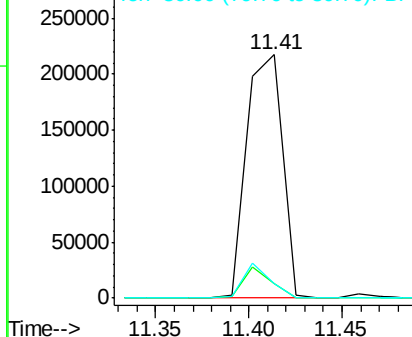


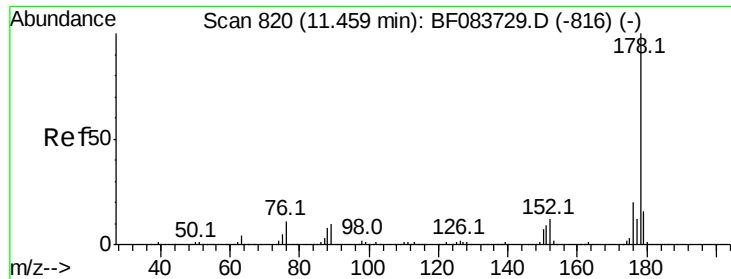
Abundance

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





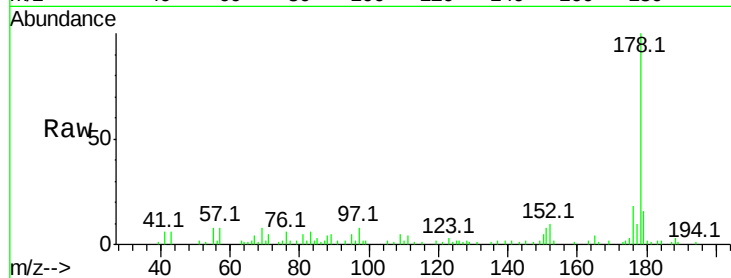
#70
Phenanthrene
Concen: 2.60 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

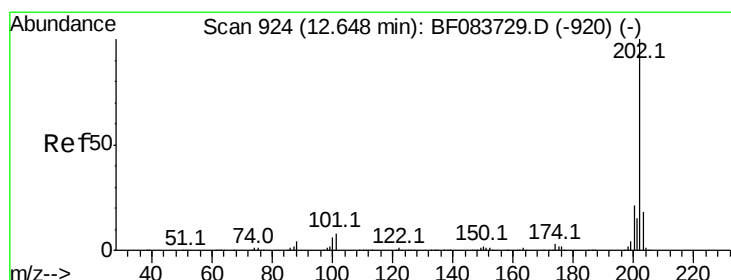
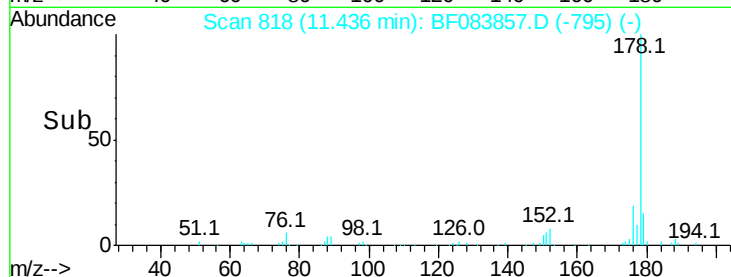
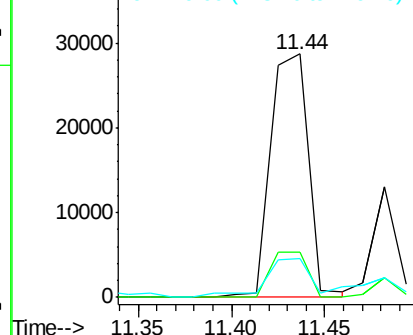
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.7	23.5
179	16.1	12.2	18.4

Manual Integrations
APPROVED

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

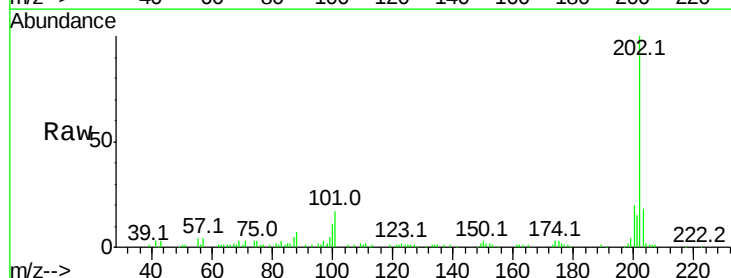


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

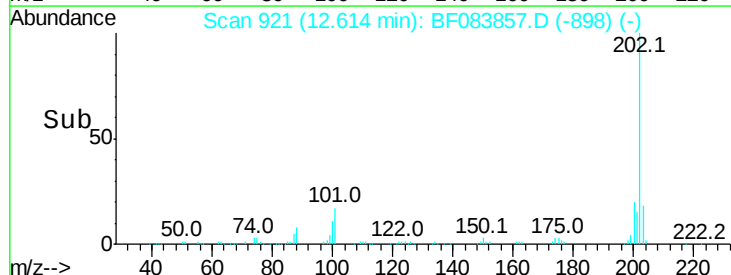
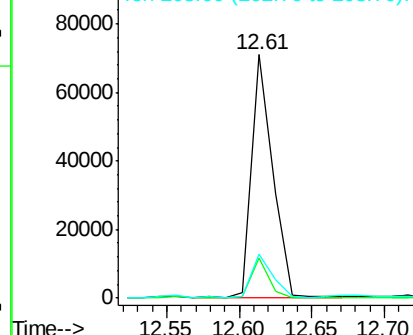


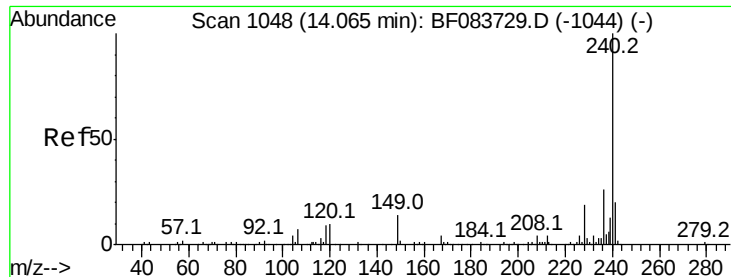
#74
Fluoranthene
Concen: 4.42 ng
RT: 12.61 min Scan# 921
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.5	0.0	31.5
203	18.3	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: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

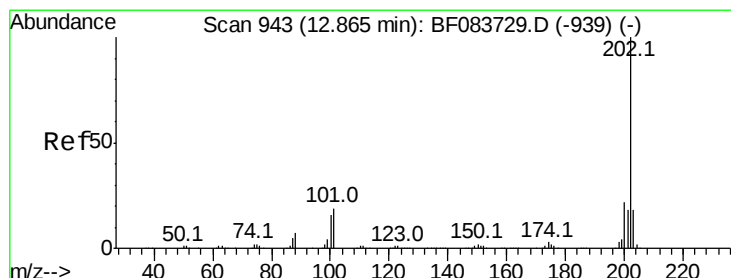
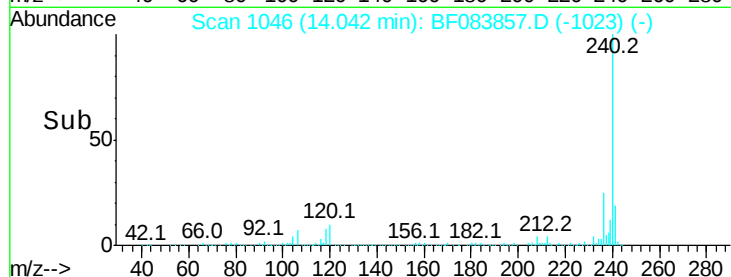
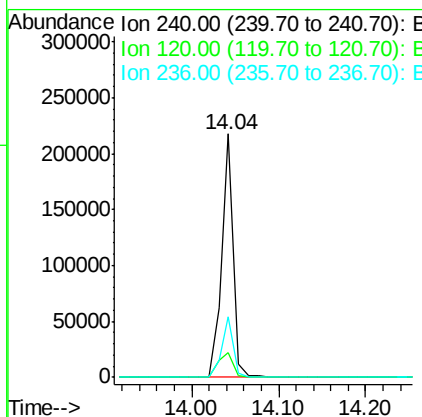
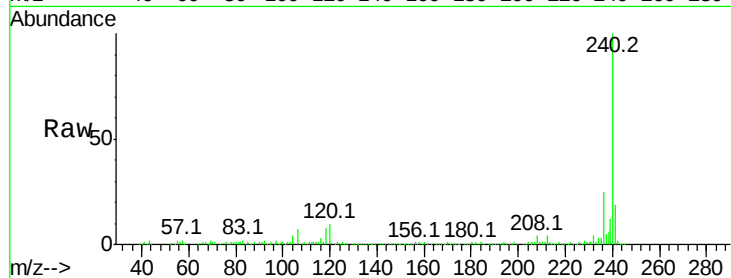
ClientSampleId :

LIBERTY-SF-004

Tot Ion:	240	Resp:	204128
Ion Ratio	Lower	Upper	
240	100		
120	9.9	8.1	12.1
236	24.9	20.8	31.2

Manual Integrations
APPROVED

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



#77

Pyrene

Concen: 4.42 ng

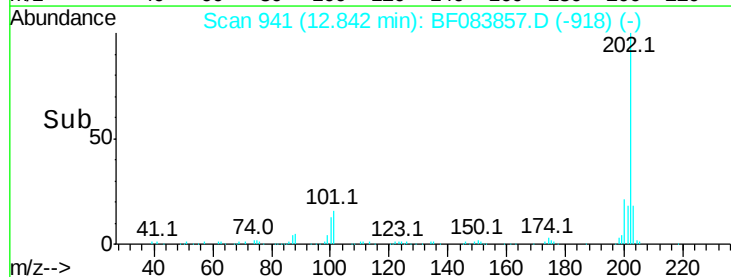
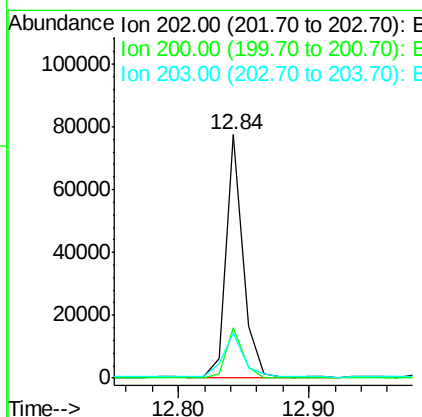
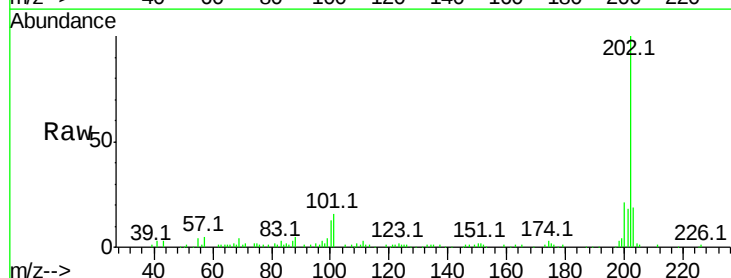
RT: 12.84 min Scan# 941

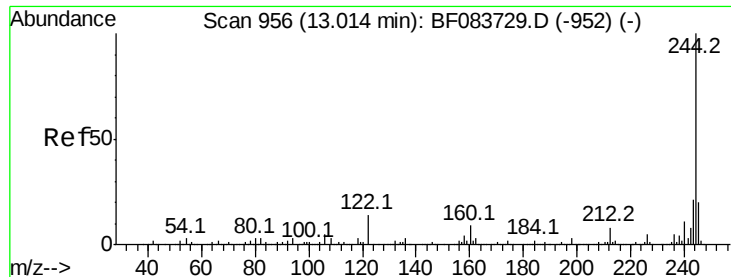
Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Tgt Ion:	202	Resp:	71349
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.7	25.1
203	18.6	14.3	21.5





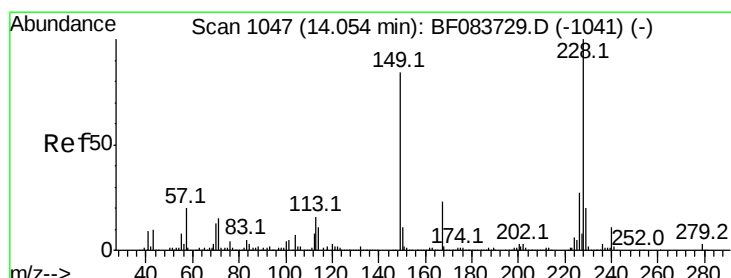
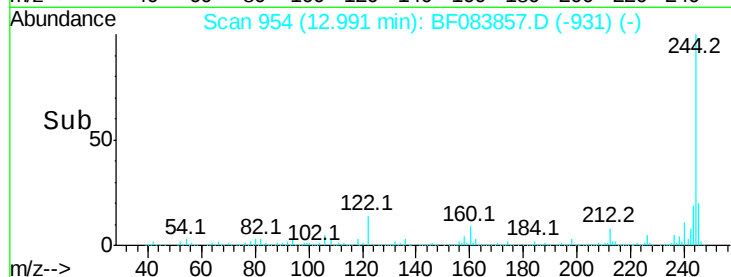
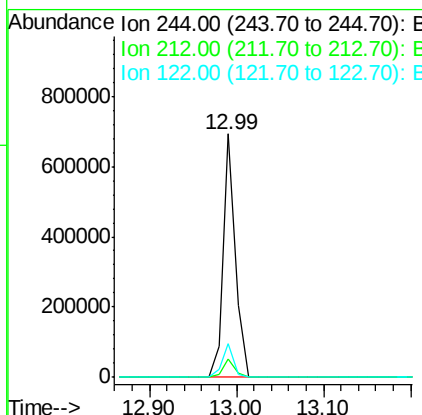
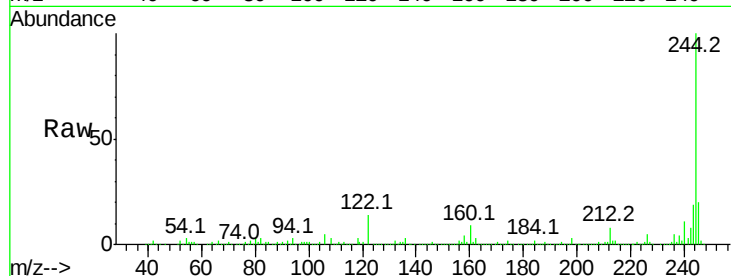
#78
 Terphenyl-d14
 Concen: 71.83 ng
 RT: 12.99 min Scan# 954
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.7	6.1	9.1	
122	13.8	11.0	16.6	

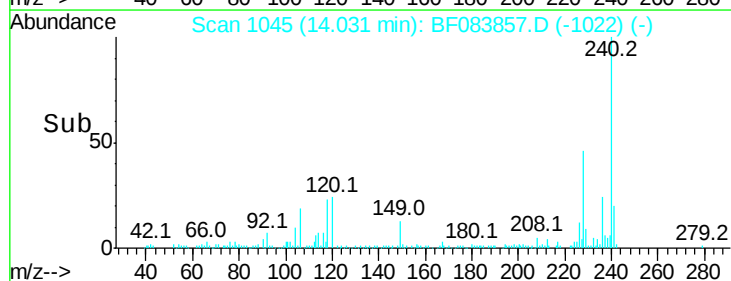
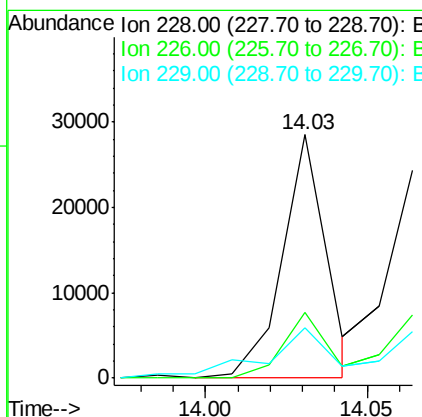
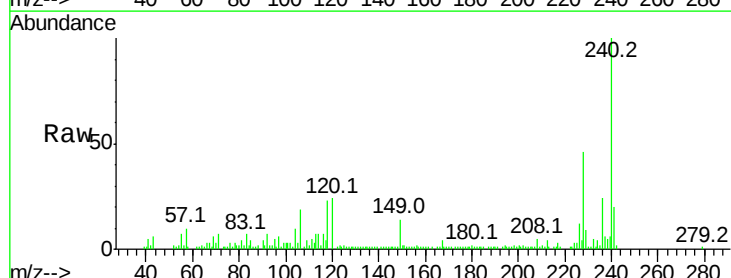
Manual Integrations
 APPROVED

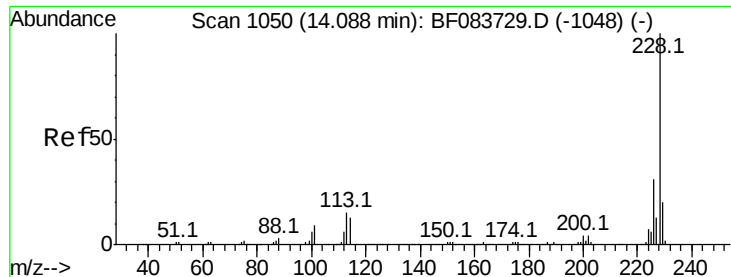
MMdadoda
 12/17/2015 5:34:17 PM



#80
 Benzo(a)anthracene
 Concen: 2.35 ng m
 RT: 14.03 min Scan# 1045
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	26.8	22.3	33.5	
229	20.5	15.7	23.5	





#82

Chrysene

Concen: 2.30 ng/mL

RT: 14.07 min Scan# 1048

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

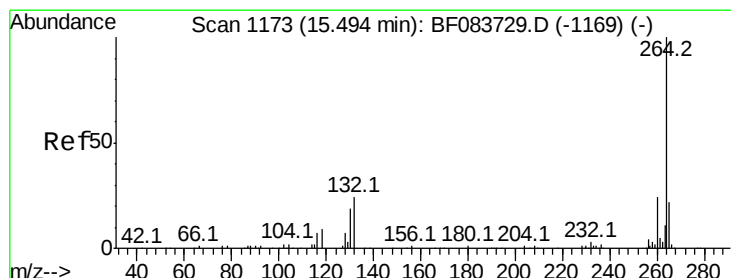
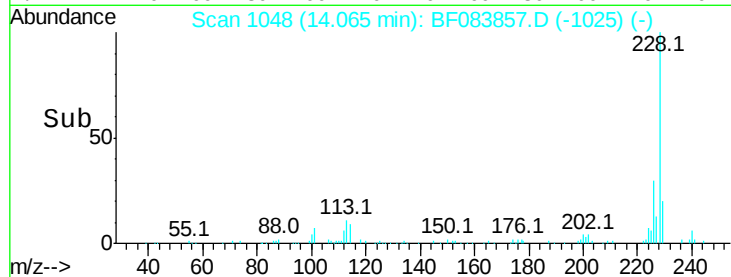
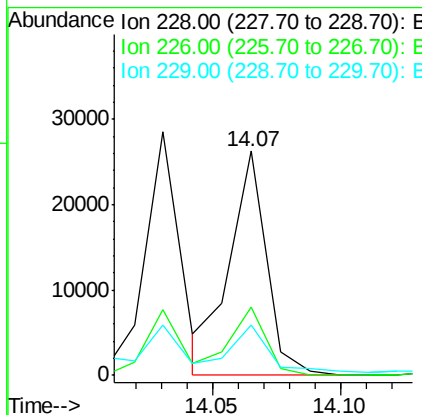
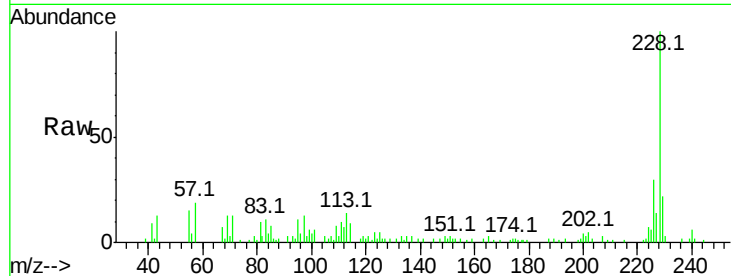
ClientSampleId :

LIBERTY-SF-004

Tot Ion:	228	Resp:	25990
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.7	37.1
229	22.5	16.3	24.5

Manual Integrations
APPROVED

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



#86

Perylene-d12

Concen: 20.00 ng

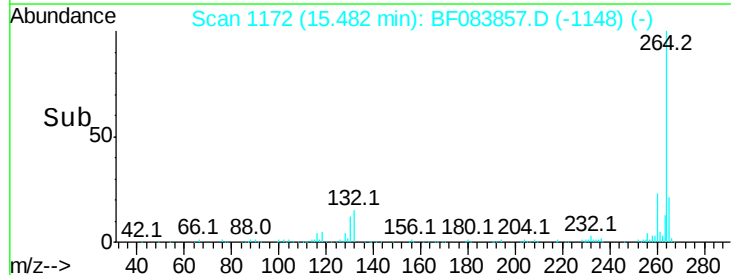
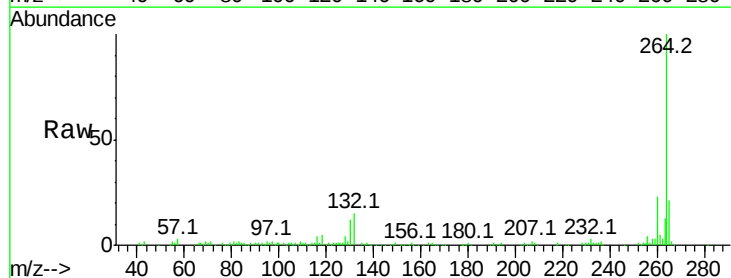
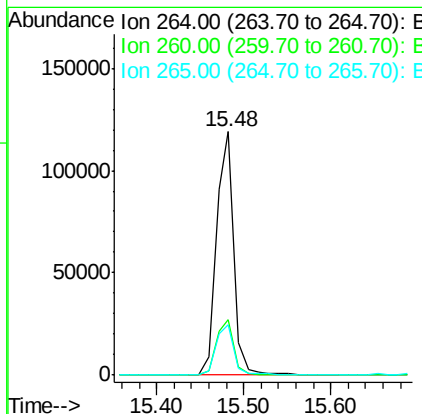
RT: 15.48 min Scan# 1172

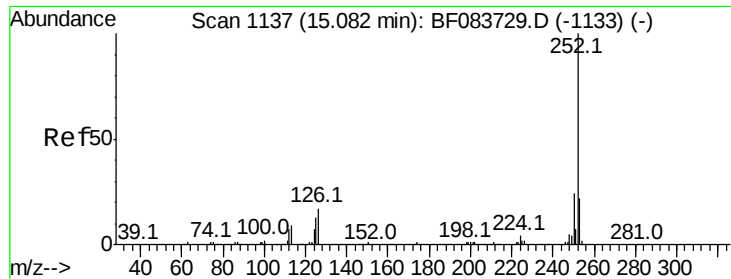
Delta R.T. -0.02 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Tgt Ion:	264	Resp:	166120
Ion Ratio	Lower	Upper	
264	100		
260	22.9	19.4	29.0
265	20.9	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 2.72 ng

RT: 15.06 min Scan# 1135

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

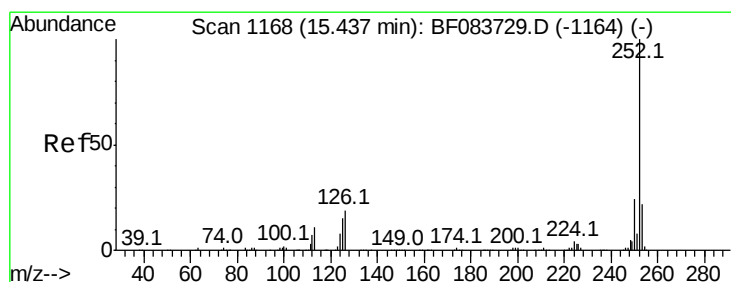
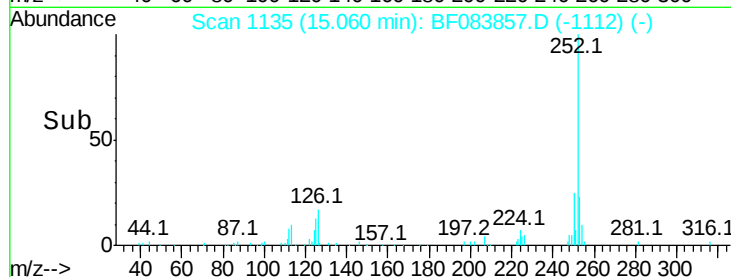
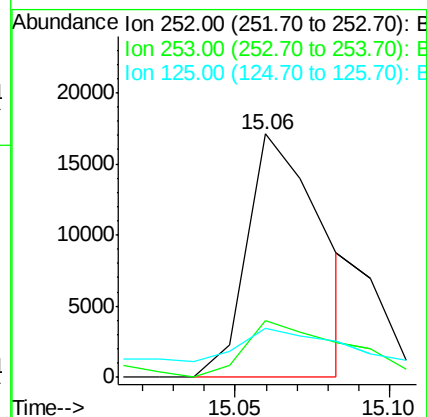
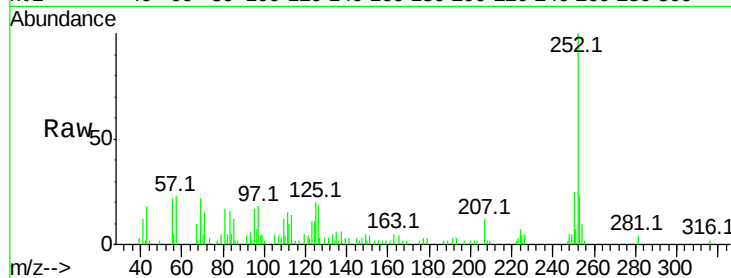
ClientSampleId :

LIBERTY-SF-004

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	20.4	8.2	12.4

Manual Integrations
APPROVED

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



#89

Benzo(a)pyrene

Concen: 2.06 ng

RT: 15.41 min Scan# 1166

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.5	26.3
125	21.6	11.0	16.6

