

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083543.D
 Acq On : 7 Dec 2015 4:47
 Operator : UM/IZ
 Sample : G4614-12
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S33-15

Manual Integrations
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 12/7/2015 6:33:33 PM

Quant Time: Dec 07 07:06:55 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.73	152	187212	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	710093	20.00	ng	-0.05
38) Acenaphthene-d10	10.42	164	333077	20.00	ng	-0.05
63) Phenanthrene-d10	12.82	188	565241	20.00	ng	-0.03
75) Chrysene-d12	17.01	240	378356	20.00	ng	-0.03
86) Perylene-d12	18.65	264	375327	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.02	112	1623732	131.58	ng	-0.01
7) Phenol-d6	5.30	99	2143011	126.04	ng	-0.02
23) Nitrobenzene-d5	6.57	82	1466264	96.52	ng	-0.03
41) 2,4,6-Tribromophenol	11.71	330	367371	119.57	ng	-0.05
44) 2-Fluorobiphenyl	9.38	172	1843453	75.07	ng	-0.05
78) Terphenyl-d14	15.45	244	1282824	75.45	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.66	128	184675	4.89	ng	98
48) Acenaphthylene	10.19	152	80597	2.21	ng	98
49) Dimethylphthalate	10.06	163	642989	24.53	ng	99
51) Acenaphthene	10.48	154	88882	4.23	ng	98
54) Dibenzofuran	10.76	168	121142	4.16	ng	100
57) Fluorene	11.31	166	104354	4.12	ng	97
70) Phenanthrene	12.87	178	1961903	59.63	ng	100
71) Anthracene	12.93	178	381510	11.37	ng	98
72) Carbazole	13.23	167	130162	4.52	ng	99
74) Fluoranthene	14.79	202	2095279	64.26	ng	96
77) Pyrene	15.14	202	1888497	66.72	ng	# 91
80) Benzo(a)anthracene	17.00	228	988612	44.66	ng	96
82) Chrysene	17.05	228	897858	40.71	ng	98
85) Indeno(1,2,3-cd)pyrene	19.88	276	437638	23.15	ng	# 100
87) Benzo(b)fluoranthene	18.27	252	1147834m	54.46	ng	
88) Benzo(k)fluoranthene	18.29	252	169365m	7.84	ng	
89) Benzo(a)pyrene	18.60	252	738846m	36.04	ng	
90) Dibenzo(a,h)anthracene	19.88	278	124488	6.31	ng	# 83
91) Benzo(a,h,i)perylene	20.24	276	393234	19.78	ng	98

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

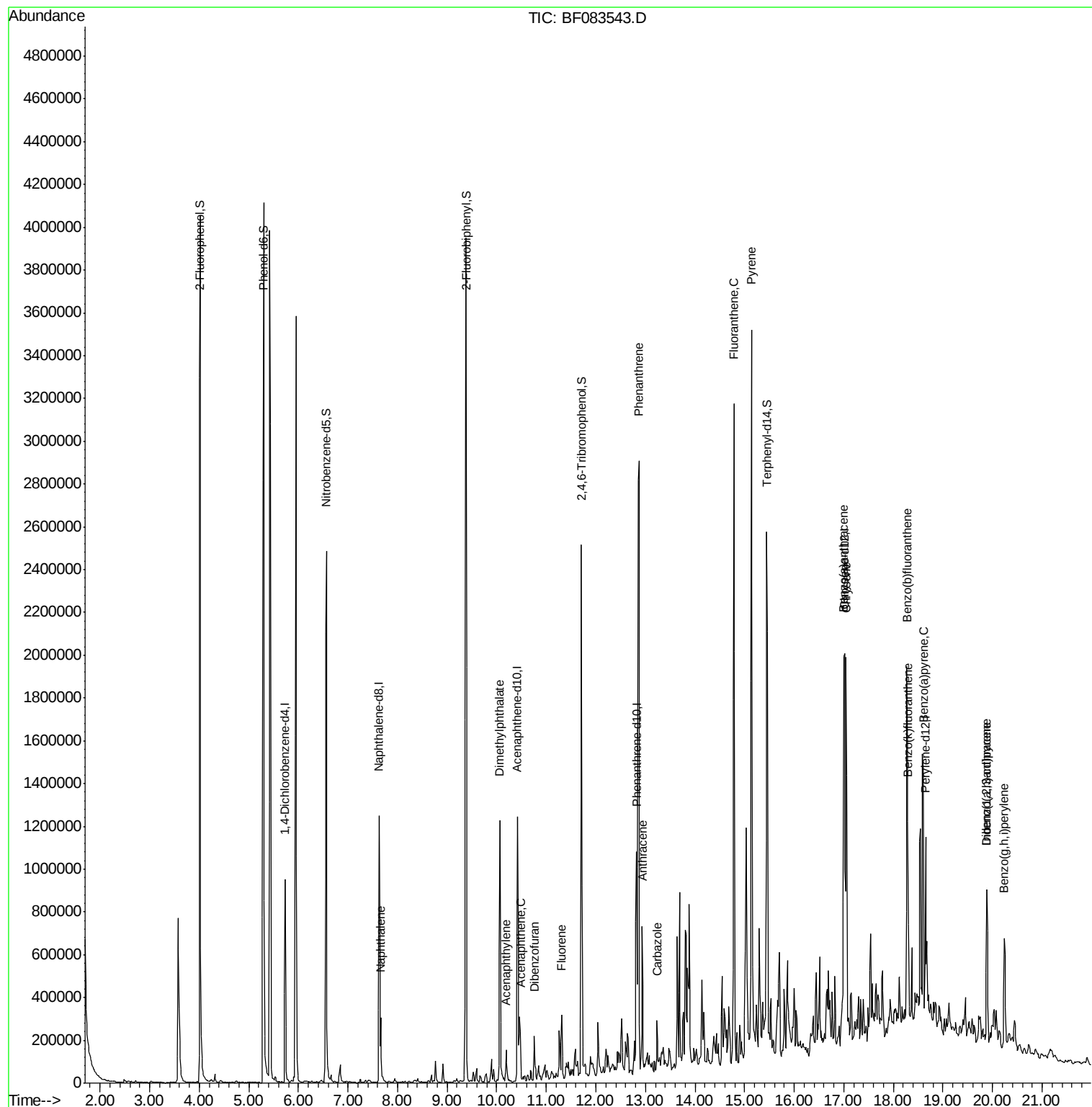
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083543.D
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Operator : UM/IZ
Sample : G4614-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

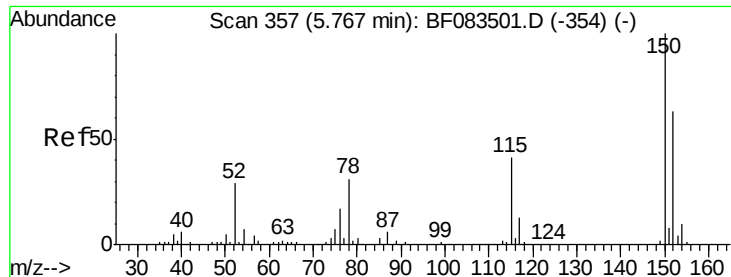
Instrument :
BNA_F
ClientSampleId :
S33-15

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Quant Time: Dec 07 07:06:55 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

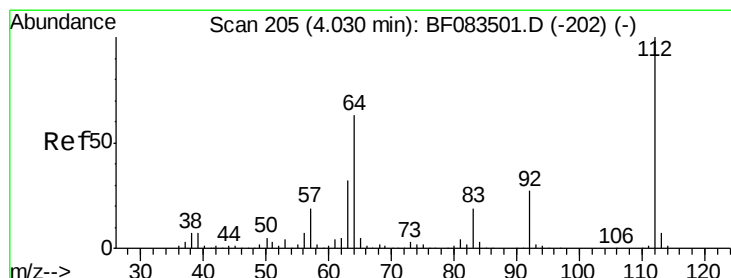
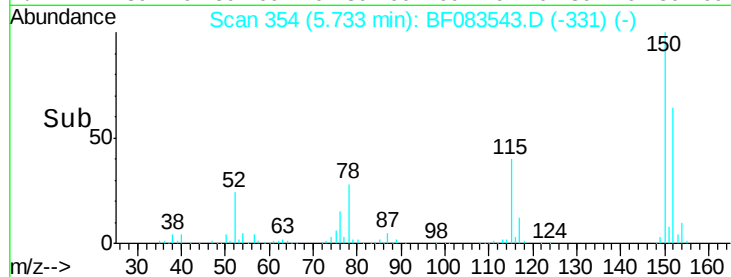
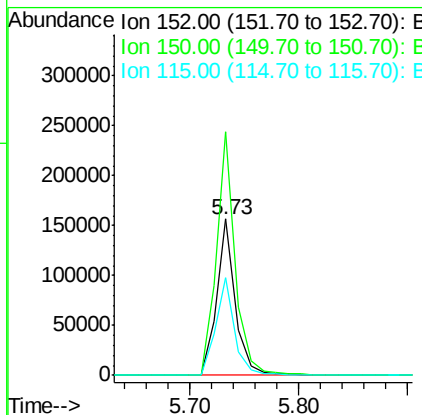
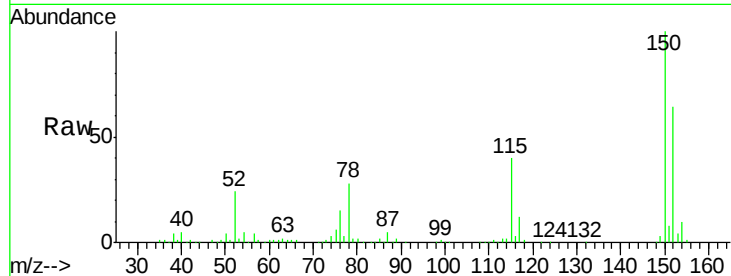
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	126.5	189.7
115	62.7	52.3	78.5

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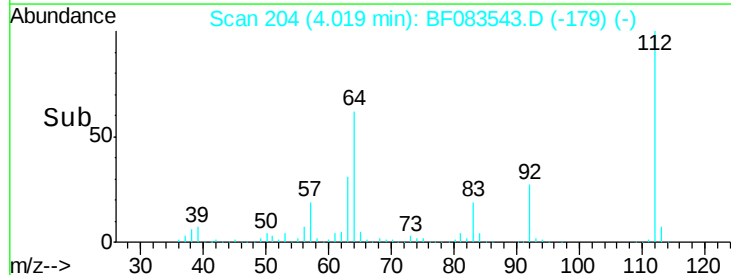
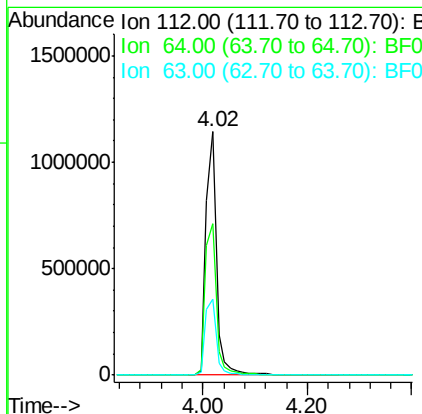
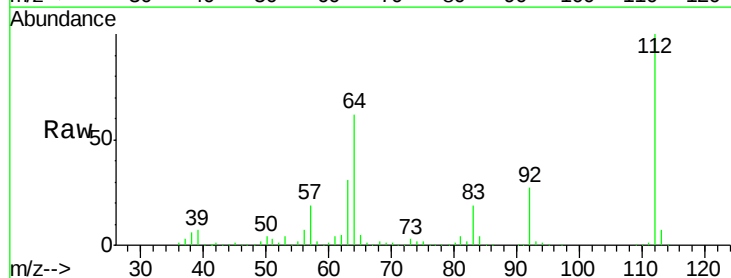
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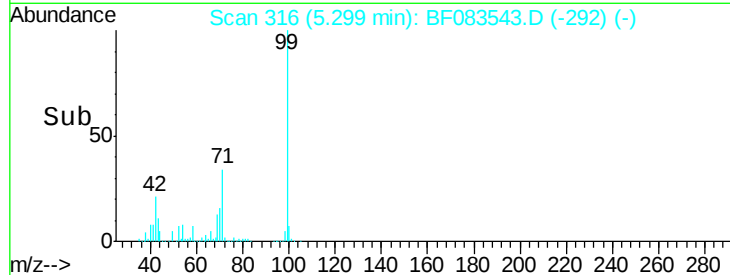
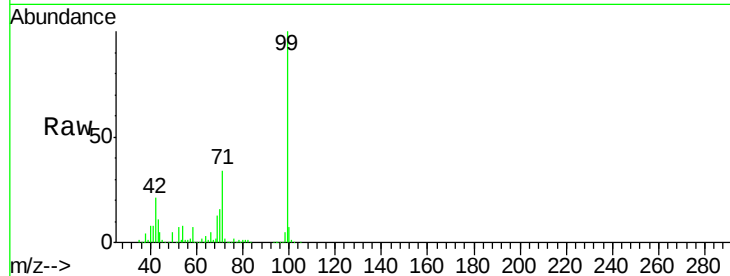


#5

2-Fluorophenol
Concen: 131.58 ng
RT: 4.02 min Scan# 204
Delta R.T. -0.01 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	50.5	75.7
63	31.4	25.8	38.6





#7

Phenol-d6

Concen: 126.04 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Tot Ion: 99 Resp: 2143011

Ion Ratio Lower Upper

99 100

42 21.4 17.3 25.9

71 34.5 26.6 40.0

Instrument :

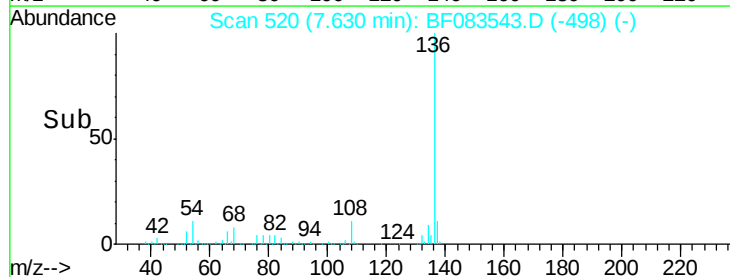
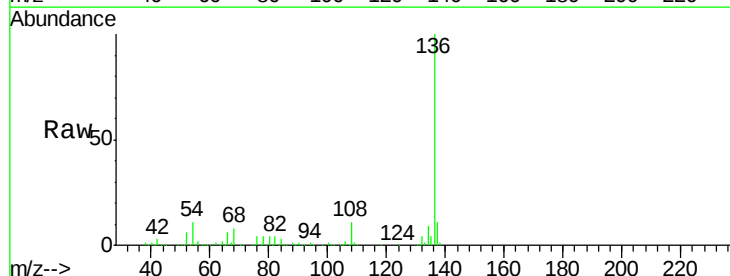
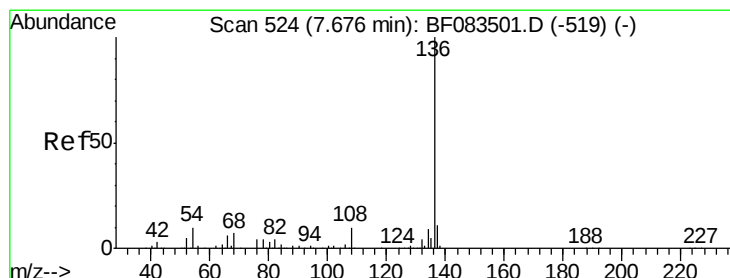
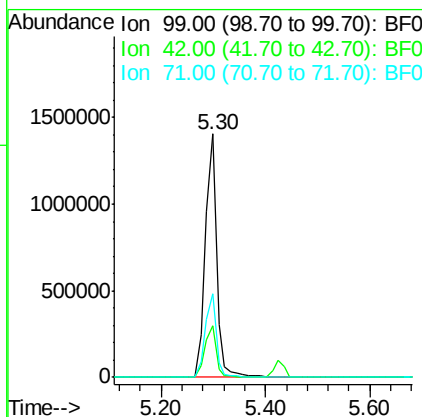
BNA_F

ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 520

Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Tgt Ion: 136 Resp: 710093

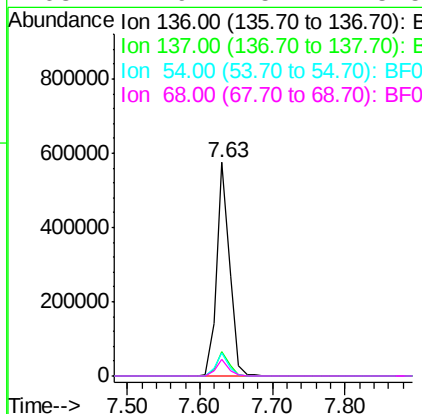
Ion Ratio Lower Upper

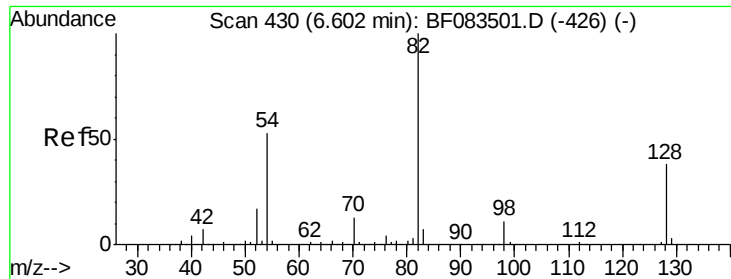
136 100

137 11.1 8.7 13.1

54 11.0 7.8 11.6

68 7.9 5.7 8.5





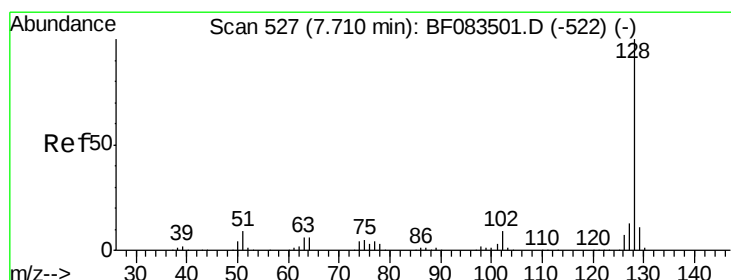
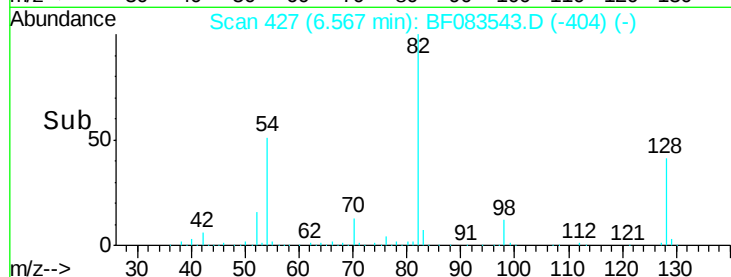
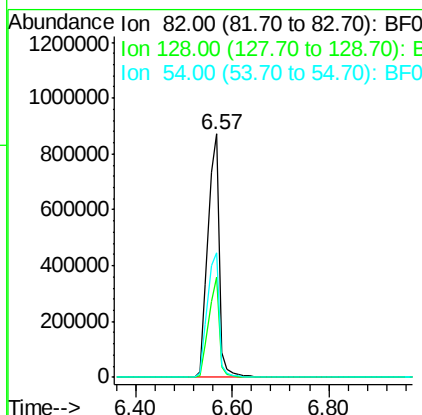
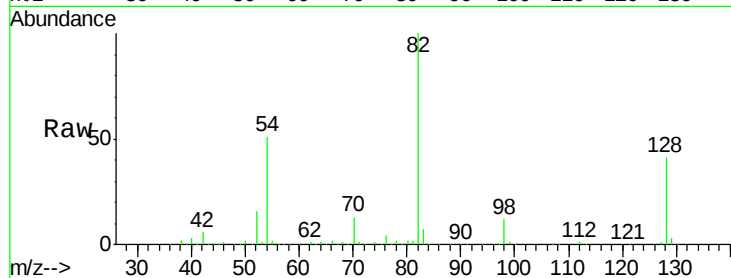
#23
 Nitrobenzene-d5
 Concen: 96.52 ng
 RT: 6.57 min Scan# 427
 Delta R.T. -0.03 min
 Lab File: BF083543.D
 Acq: 7 Dec 2015 4:47

Instrument :
 BNA_F
 ClientSampleId :
 S33-15

Tot Ion: 82 Resp: 1466264
 Ion Ratio Lower Upper
 82 100
 128 41.2 30.7 46.1
 54 51.2 42.5 63.7

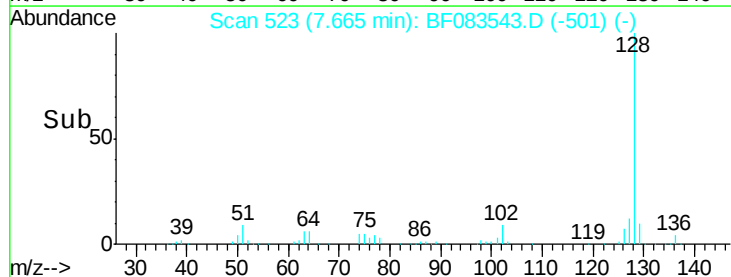
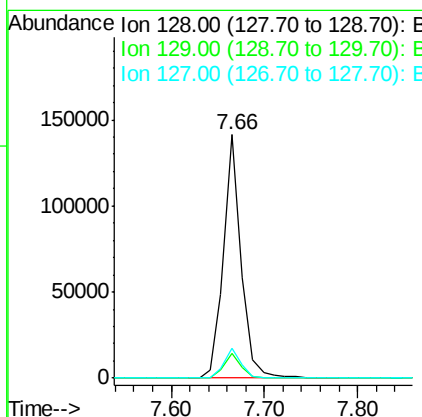
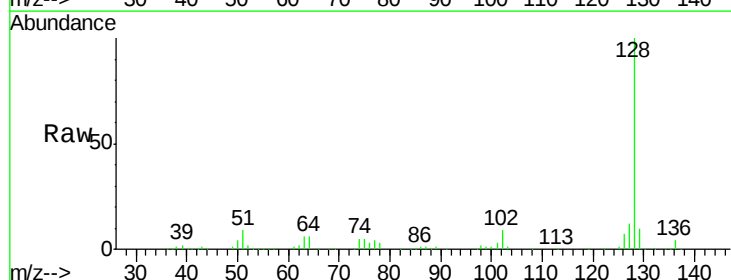
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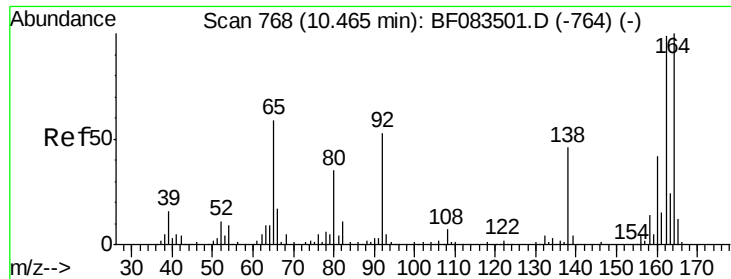
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#31
 Naphthalene
 Concen: 4.89 ng
 RT: 7.66 min Scan# 523
 Delta R.T. -0.05 min
 Lab File: BF083543.D
 Acq: 7 Dec 2015 4:47

Tgt Ion: 128 Resp: 184675
 Ion Ratio Lower Upper
 128 100
 129 10.3 8.6 13.0
 127 12.0 10.6 16.0





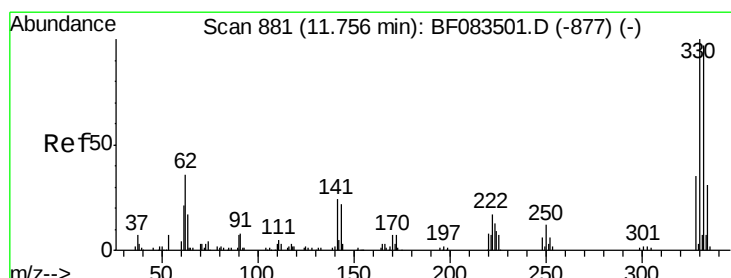
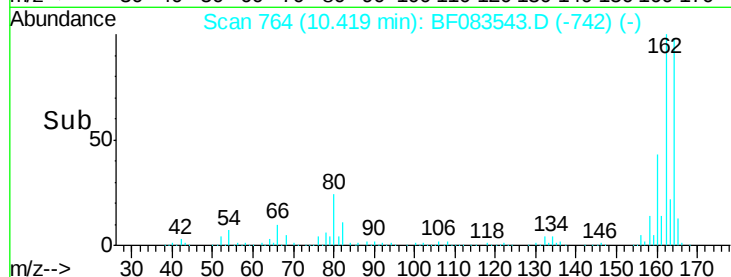
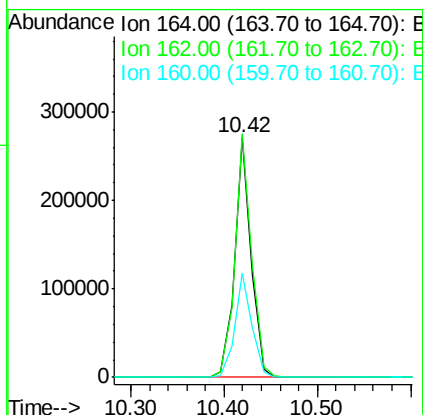
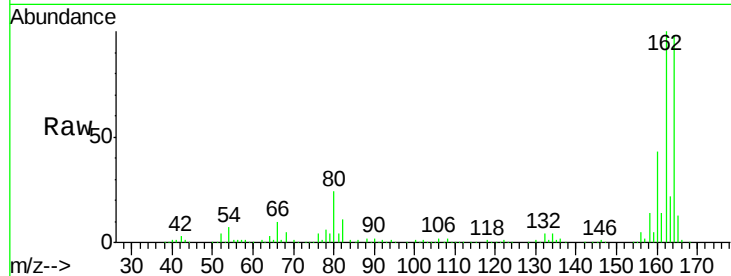
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.42 min Scan# 764
Delta R.T. -0.05 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.7	78.8	118.2
160	43.6	33.4	50.2

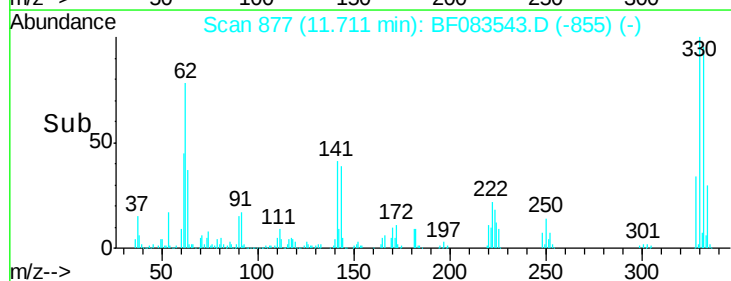
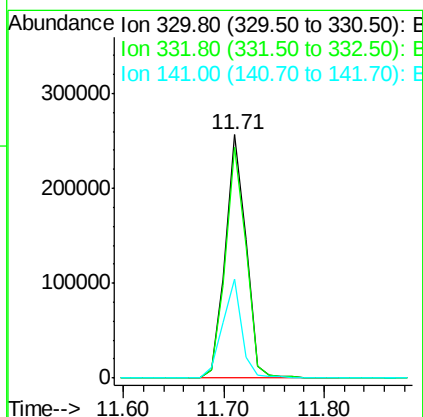
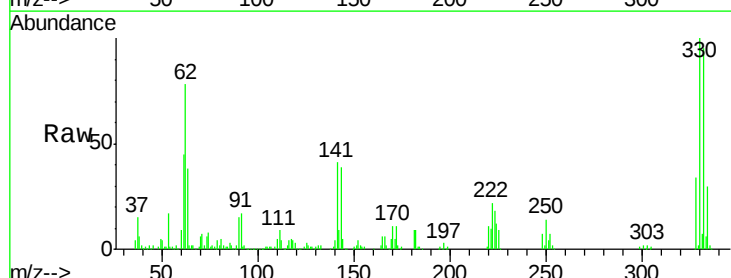
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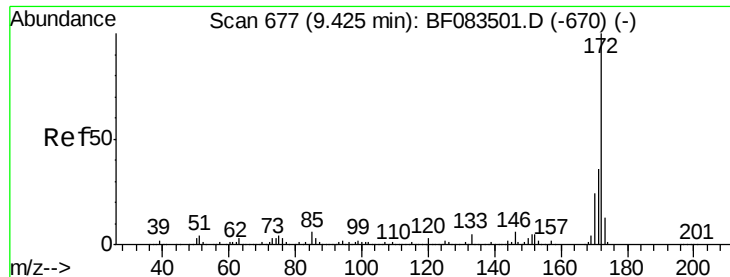
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#41
2,4,6-Tribromophenol
Concen: 119.57 ng
RT: 11.71 min Scan# 877
Delta R.T. -0.05 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	0.0	0.0#
141	38.9	0.0	0.0#





#44

2-Fluorobiphenyl

Concen: 75.07 ng

RT: 9.38 min Scan# 673

Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

ClientSampleId :

S33-15

Tot Ion:172 Resp: 1843453

Ion Ratio Lower Upper

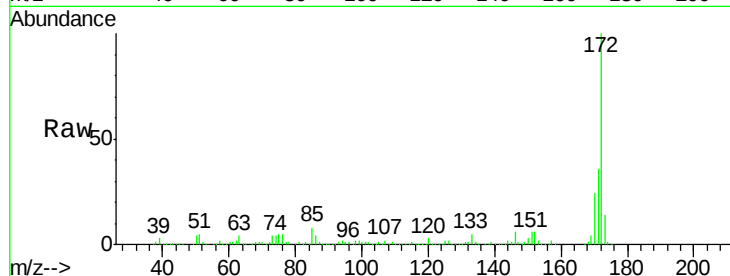
172 100

171 35.7 28.6 42.8

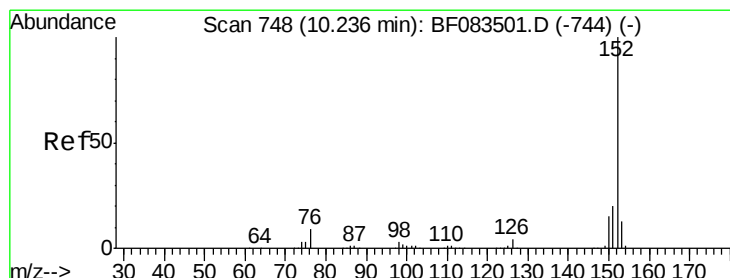
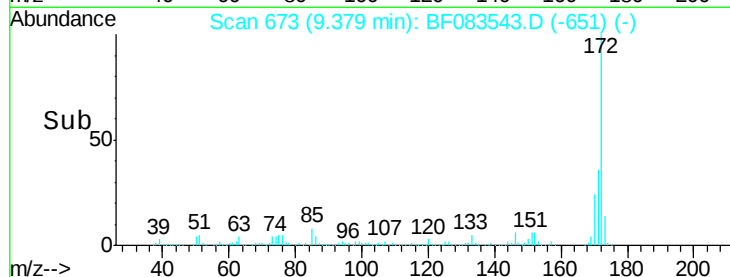
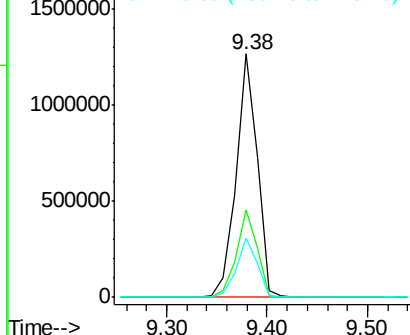
170 24.3 19.4 29.0

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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



#48

Acenaphthylene

Concen: 2.21 ng

RT: 10.19 min Scan# 744

Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

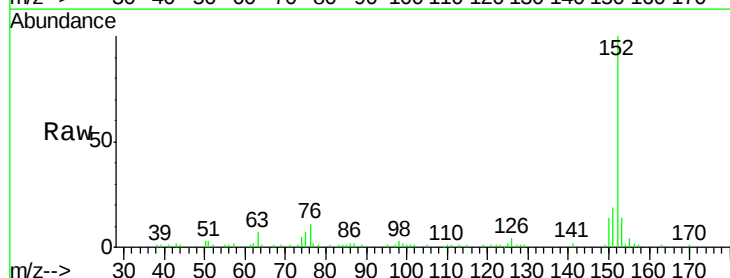
Tgt Ion:152 Resp: 80597

Ion Ratio Lower Upper

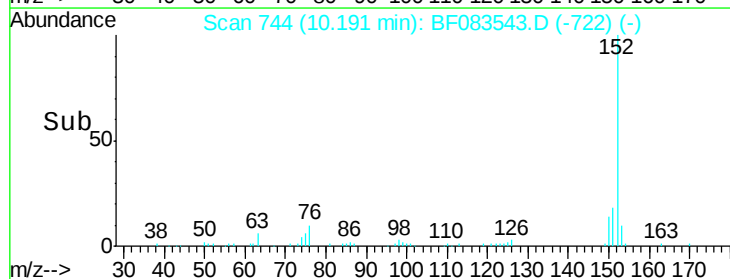
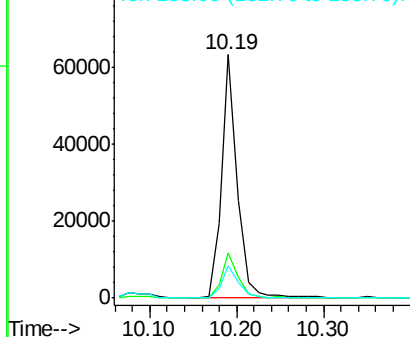
152 100

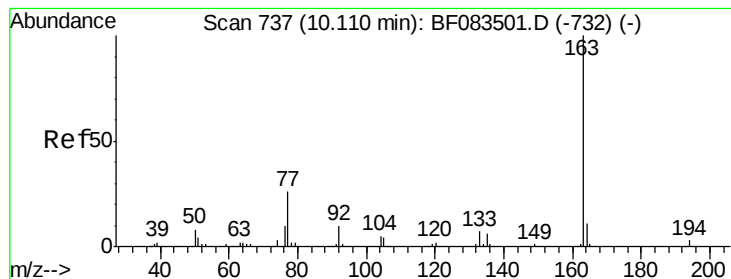
151 18.8 16.3 24.5

153 13.6 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 24.53 ng

RT: 10.06 min Scan# 733

Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

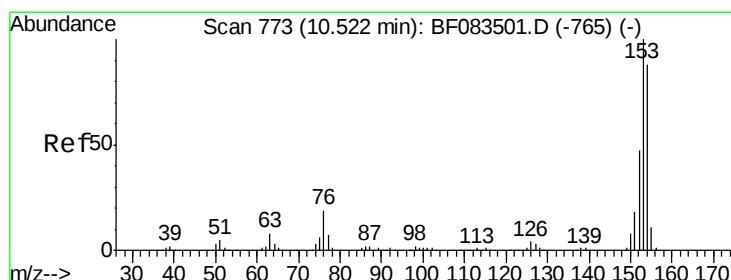
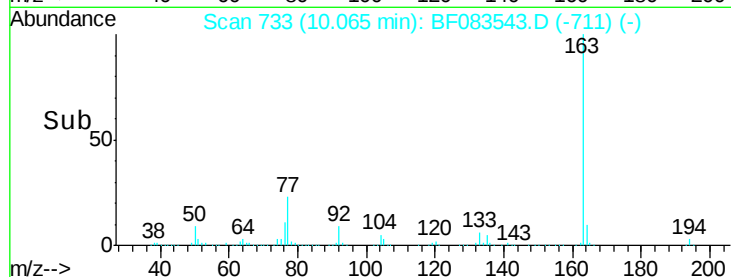
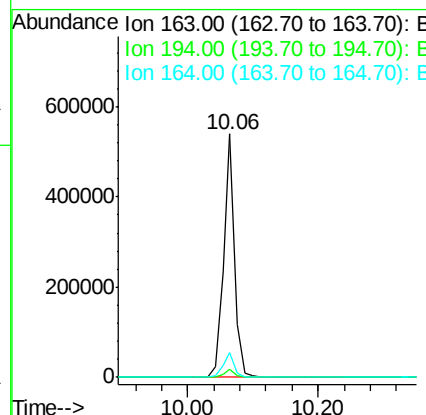
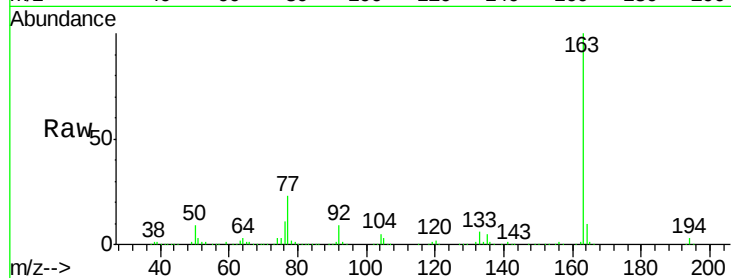
ClientSampleId :

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Tot Ion:	163	Resp:	642989
Ion Ratio	Lower	Upper	
163	100		
194	3.4	2.8	4.2
164	10.3	8.6	13.0

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#51

Acenaphthene

Concen: 4.23 ng

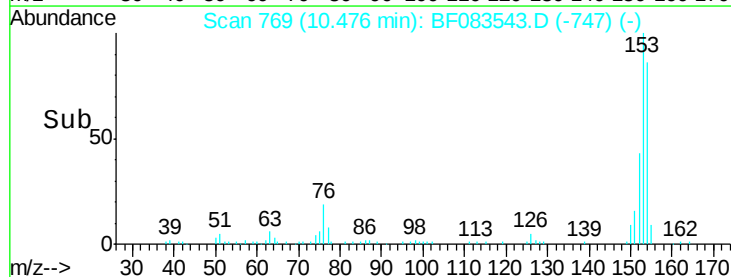
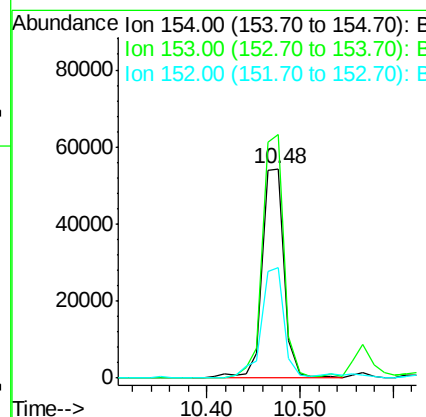
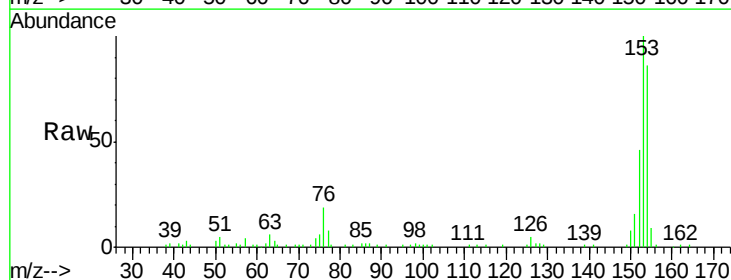
RT: 10.48 min Scan# 769

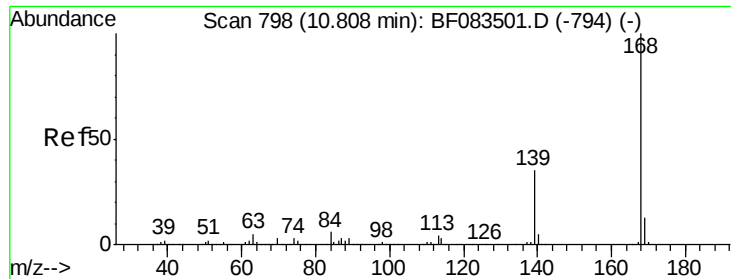
Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Tgt Ion:	154	Resp:	88882
Ion Ratio	Lower	Upper	
154	100		
153	116.3	91.4	137.0
152	53.1	43.4	65.2





#54

Dibenzofuran

Concen: 4.16 ng

RT: 10.76 min Scan# 794

Delta R.T. -0.05 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

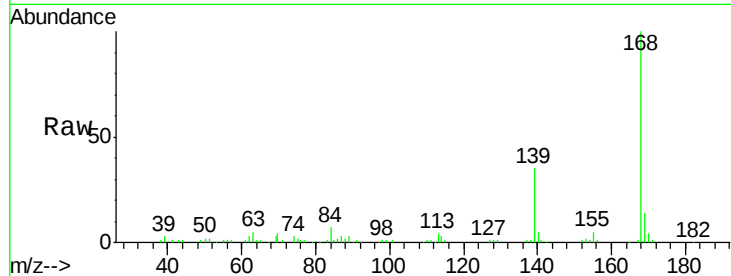
ClientSampleId :

S33-15

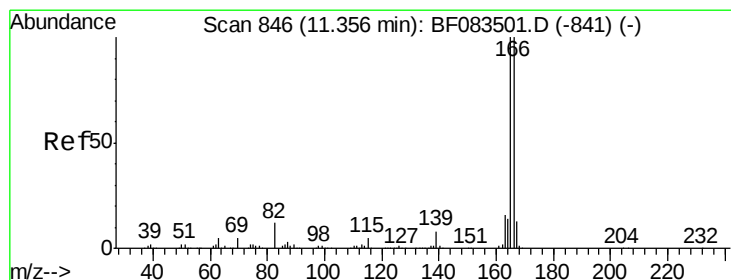
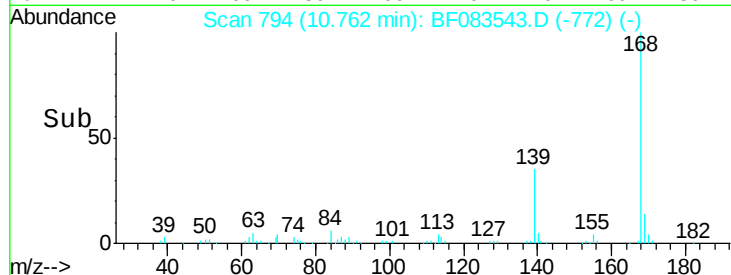
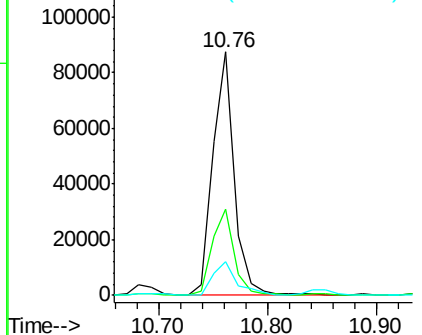
Tot Ion:	168	Resp:	121142
Ion Ratio	Lower	Upper	
168	100		
139	35.1	28.0	42.0
169	13.7	10.8	16.2

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Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 4.12 ng

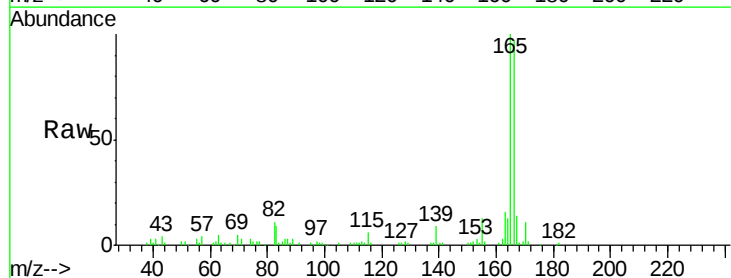
RT: 11.31 min Scan# 842

Delta R.T. -0.05 min

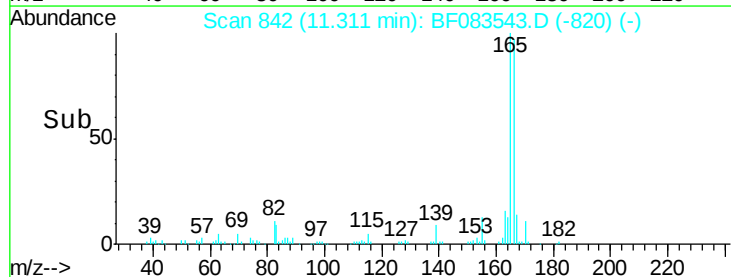
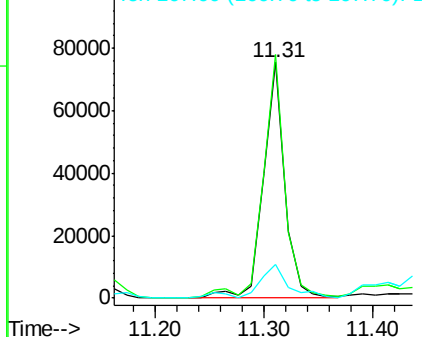
Lab File: BF083543.D

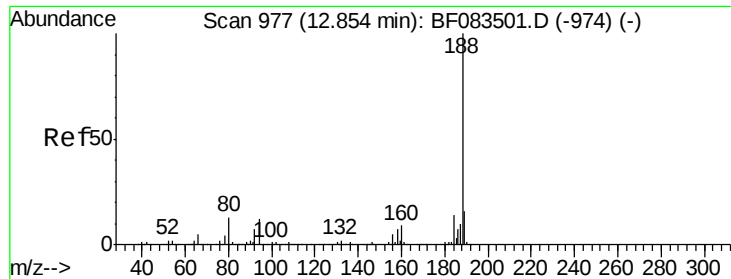
Acq: 7 Dec 2015 4:47

Tgt Ion:	166	Resp:	104354
Ion Ratio	Lower	Upper	
166	100		
165	103.3	80.0	120.0
167	14.5	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.82 min Scan# 974

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

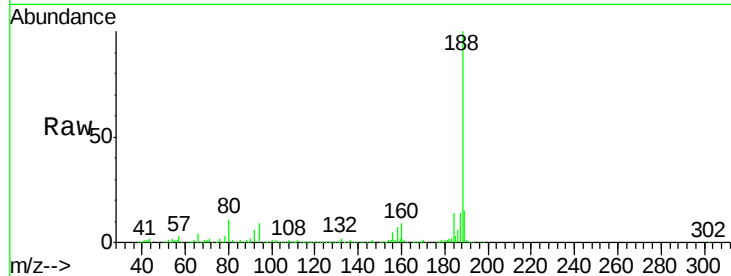
ClientSampled :

S33-15

Tot Ion:	188	Resp:	565241
Ion Ratio	Lower	Upper	
188	100		
94	9.5	9.4	14.2
80	11.0	10.6	16.0

Manual Integrations
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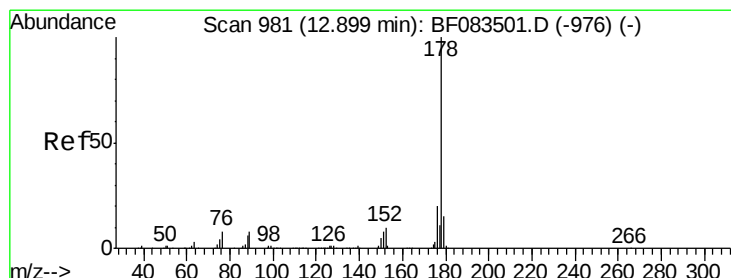
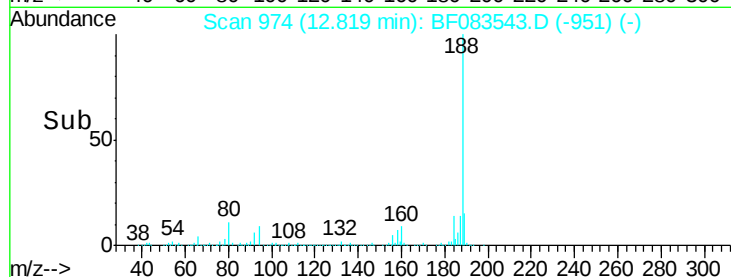
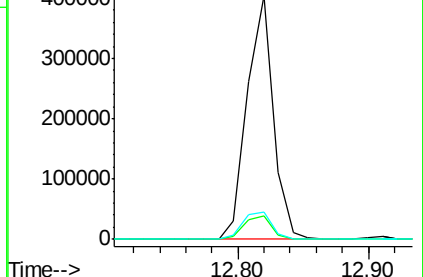
Mmdadoda
12/7/2015 6:33:33 PM



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: 59.63 ng

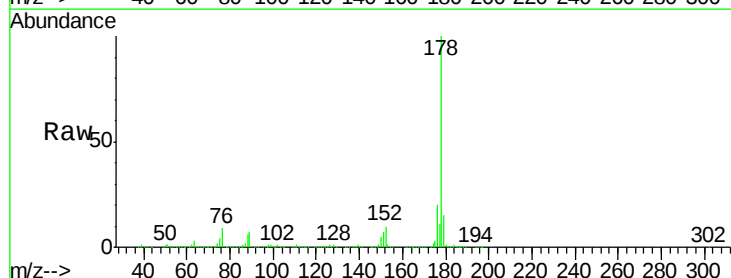
RT: 12.87 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

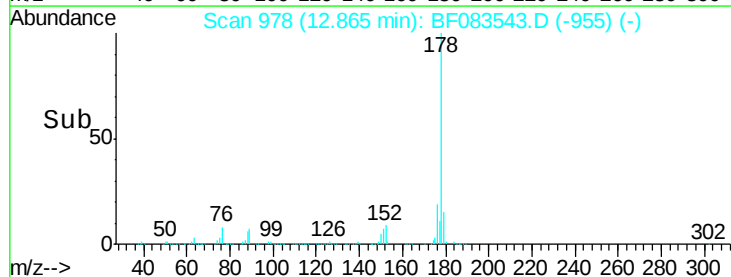
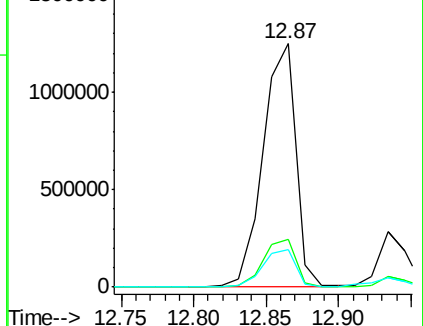
Tgt Ion:	178	Resp:	1961903
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.7	23.5
179	15.2	12.2	18.4

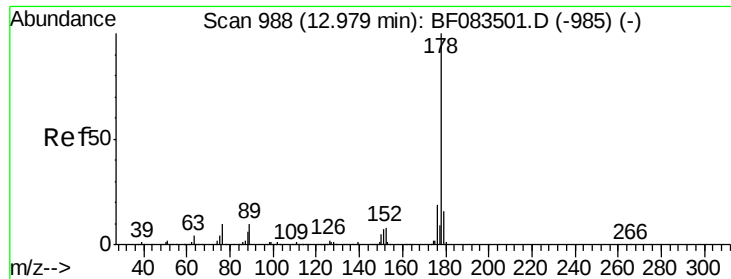


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





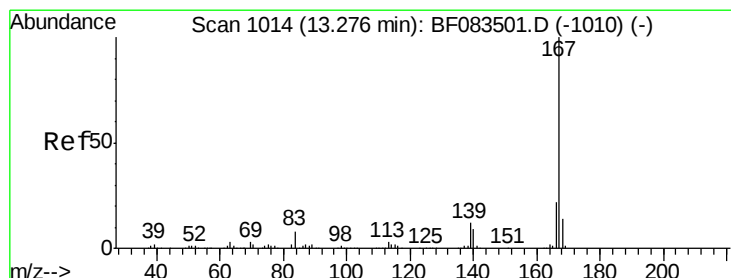
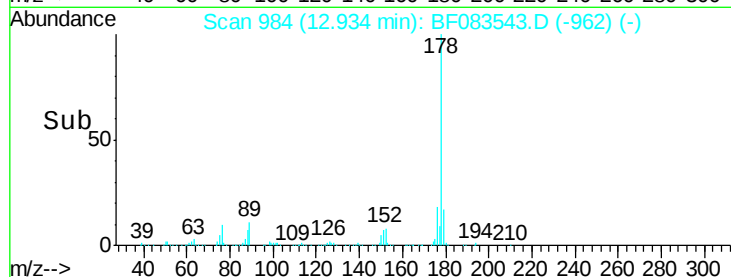
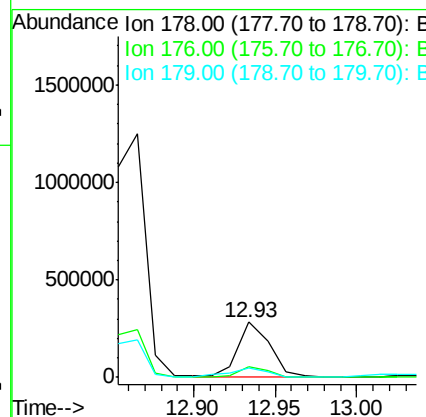
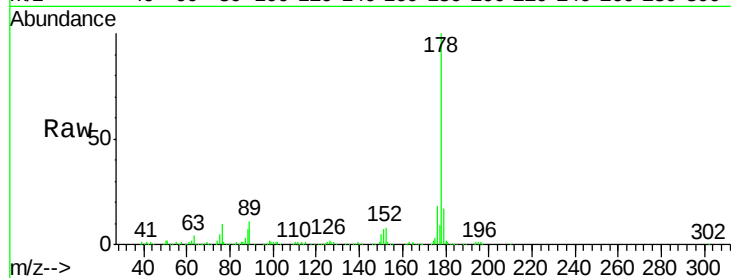
#71
 Anthracene
 Concen: 11.37 ng
 RT: 12.93 min Scan# 984
 Delta R.T. -0.05 min
 Lab File: BF083543.D
 Acq: 7 Dec 2015 4:47

Instrument :
 BNA_F
 ClientSampleId :
 S33-15

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	16.9	12.6	18.8

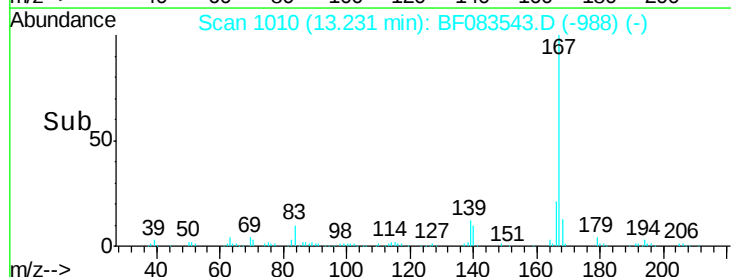
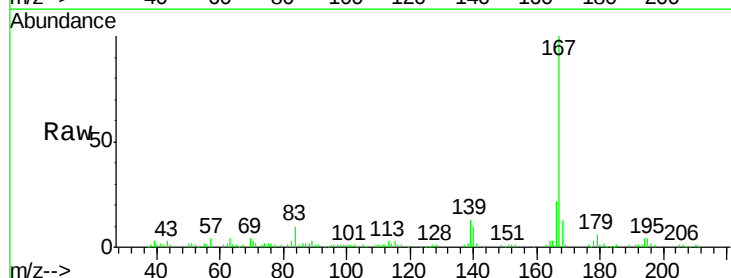
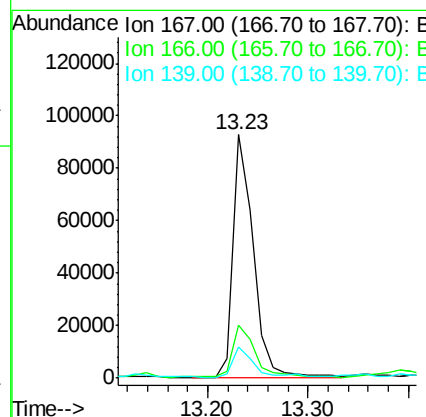
Manual Integrations
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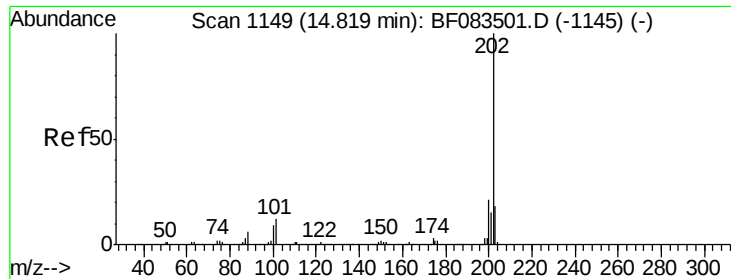
Mmdadoda
 12/7/2015 6:33:33 PM



#72
 Carbazole
 Concen: 4.52 ng
 RT: 13.23 min Scan# 1010
 Delta R.T. -0.05 min
 Lab File: BF083543.D
 Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	12.8	9.3	13.9





#74

Fluoranthene

Concen: 64.26 ng

RT: 14.79 min Scan# 1146

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

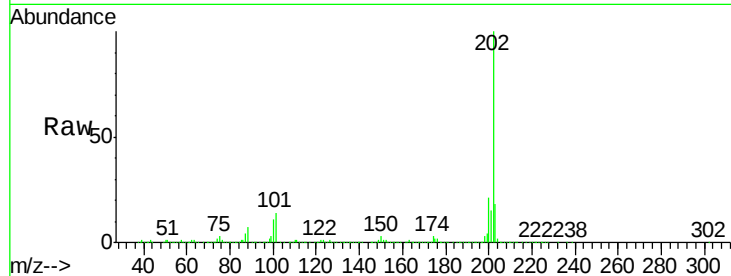
ClientSampleId :

S33-15

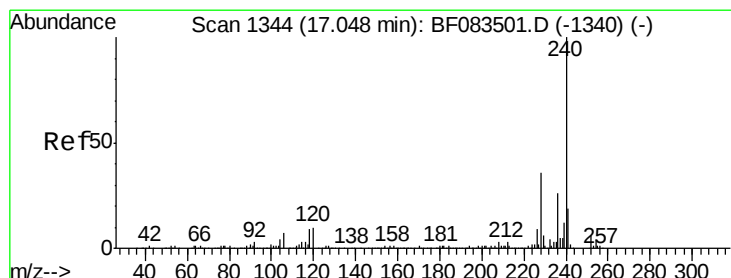
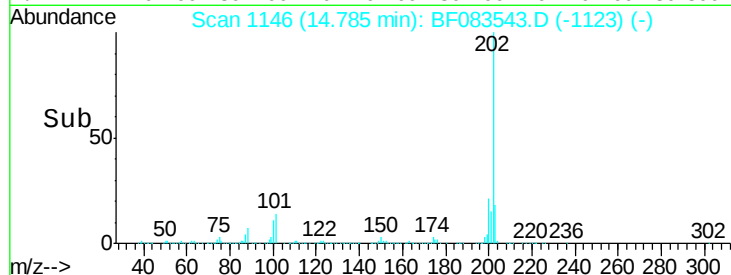
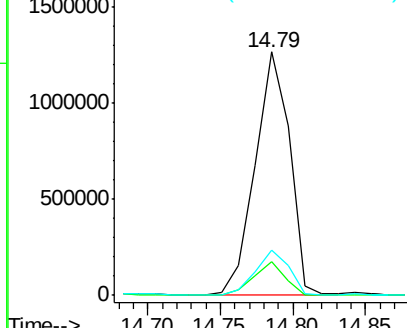
Tot Ion:	202	Resp:	2095279
Ion	Ratio	Lower	Upper
202	100		
101	13.8	0.0	31.5
203	18.5	0.0	37.6

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

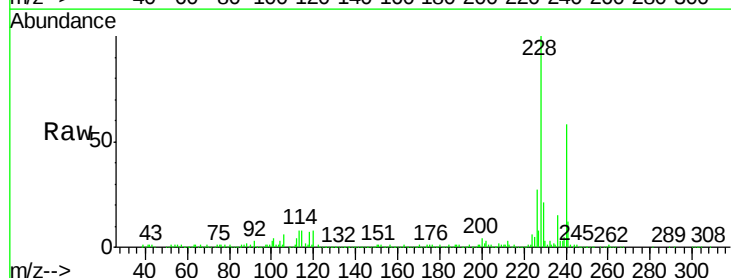
RT: 17.01 min Scan# 1341

Delta R.T. -0.03 min

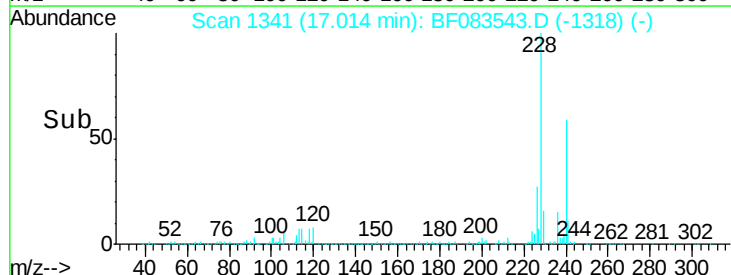
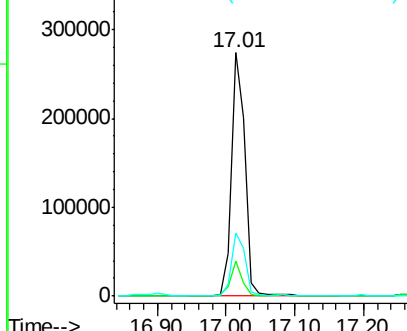
Lab File: BF083543.D

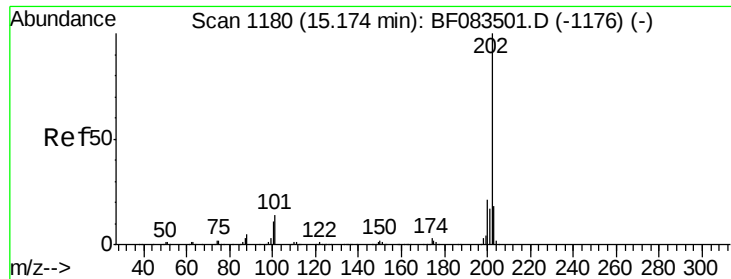
Acq: 7 Dec 2015 4:47

Tgt Ion:	240	Resp:	378356
Ion	Ratio	Lower	Upper
240	100		
120	14.3	8.1	12.1#
236	26.0	20.8	31.2



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: 66.72 ng

RT: 15.14 min Scan# 1177

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

ClientSampled :

S33-15

Tot Ion:202 Resp: 1888497

Ion Ratio Lower Upper

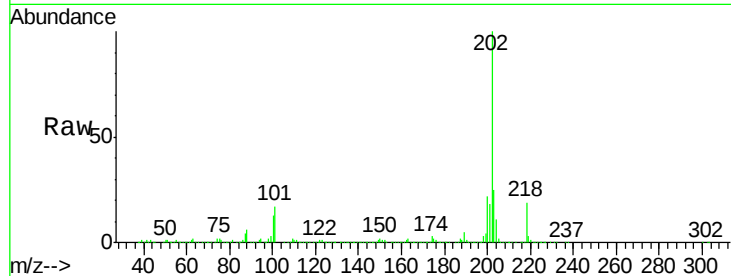
202 100

200 21.7 16.7 25.1

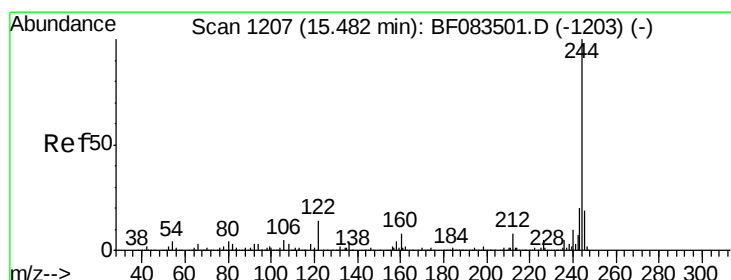
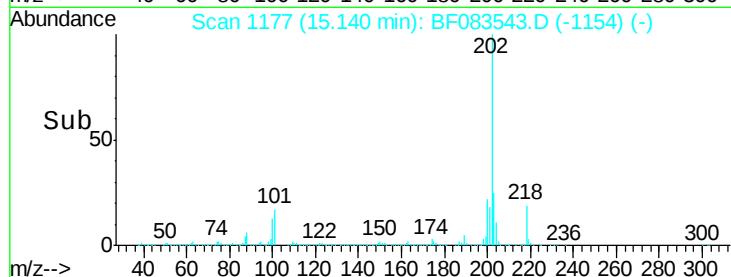
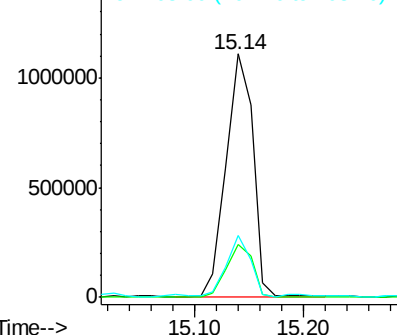
203 25.3 14.3 21.5#

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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: 75.45 ng

RT: 15.45 min Scan# 1204

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

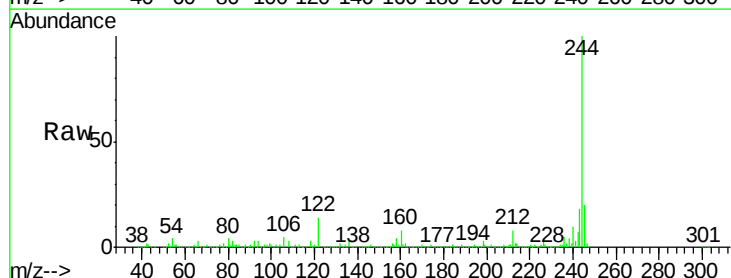
Tgt Ion:244 Resp: 1282824

Ion Ratio Lower Upper

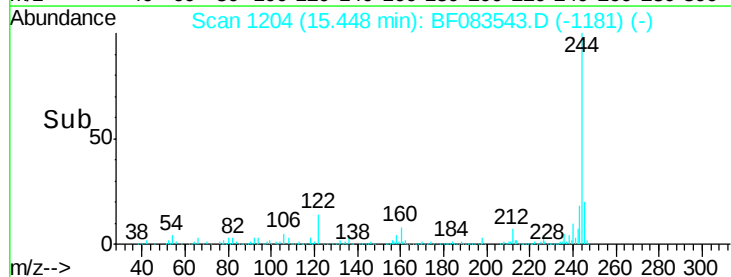
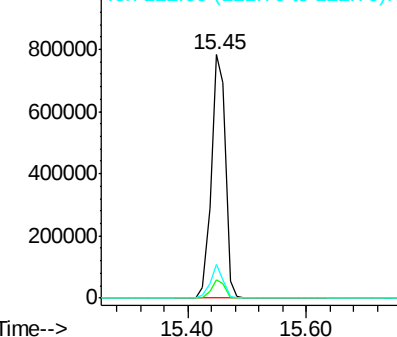
244 100

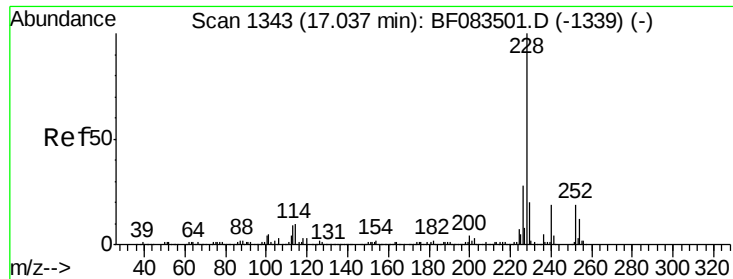
212 7.5 6.1 9.1

122 13.9 11.0 16.6



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





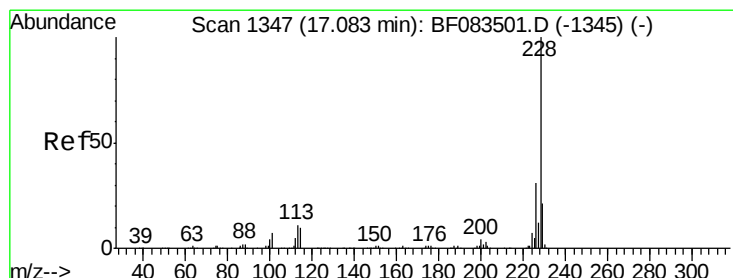
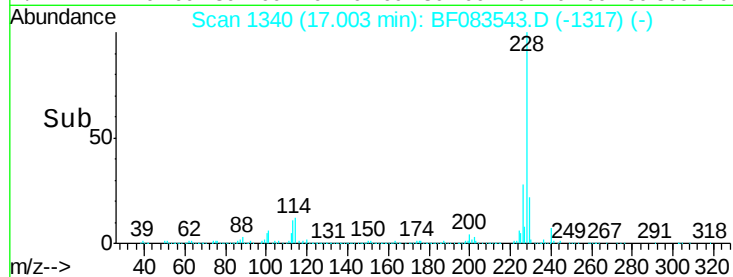
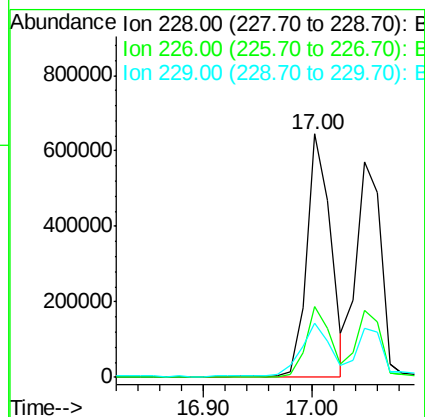
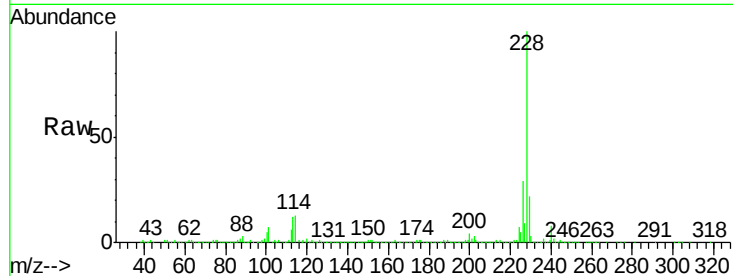
#80
Benzo(a)anthracene
Concen: 44.66 ng
RT: 17.00 min Scan# 1340
Delta R.T. -0.03 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Resp	Lower	Upper
228	100	988612		
226	29.1		22.3	33.5
229	22.4		15.7	23.5

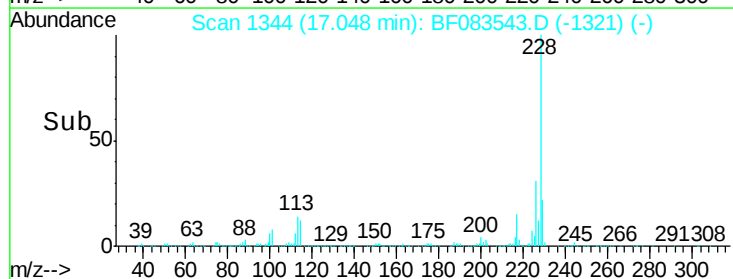
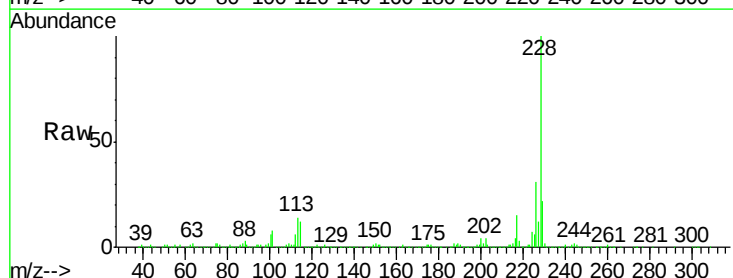
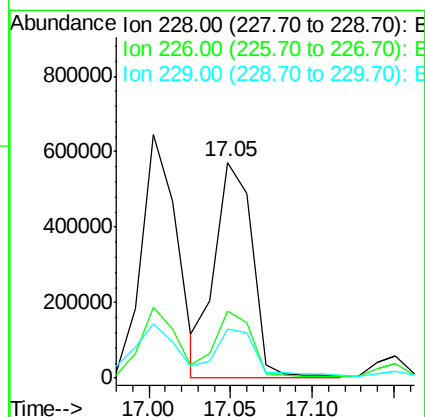
Manual Integrations
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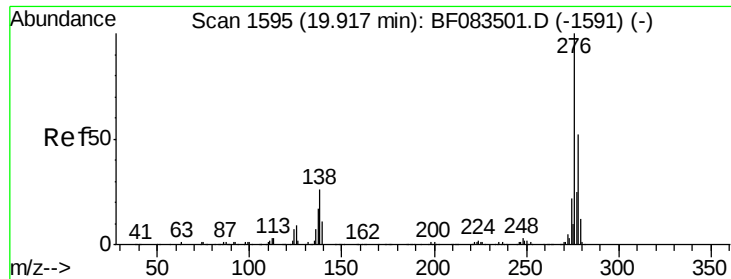
Mmdadoda
12/7/2015 6:33:33 PM



#82
Chrysene
Concen: 40.71 ng
RT: 17.05 min Scan# 1344
Delta R.T. -0.03 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	897858		
226	31.2		24.7	37.1
229	22.5		16.3	24.5





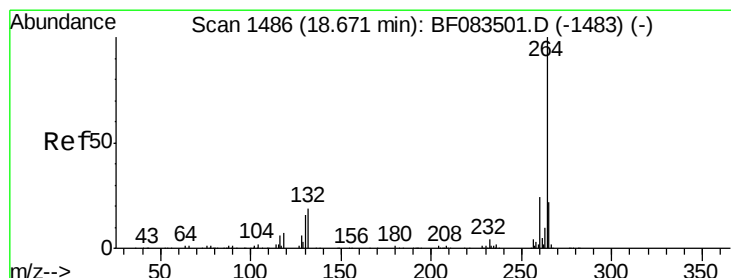
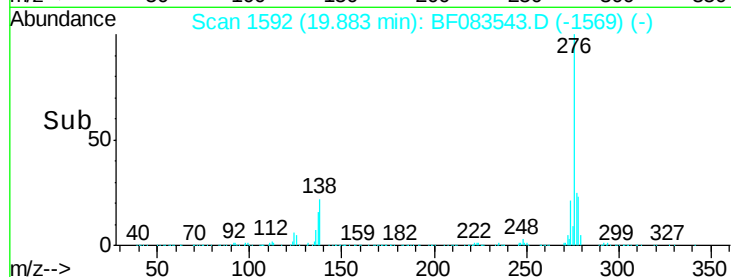
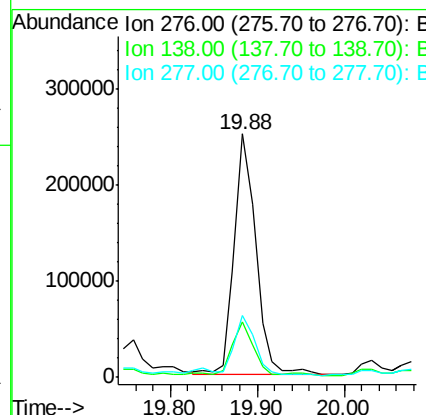
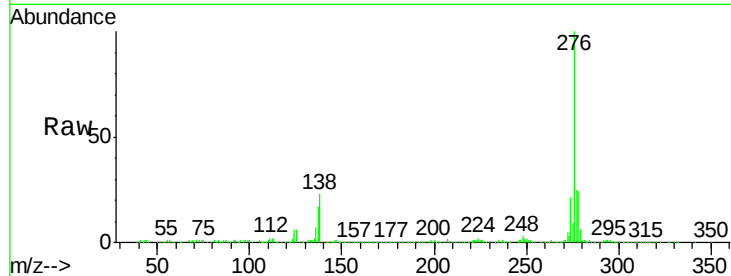
#85
Indeno(1,2,3-cd)pyrene
Concen: 23.15 ng
RT: 19.88 min Scan# 1592
Delta R.T. -0.03 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.3	0.0	0.0#
277	27.6	0.0	0.0#

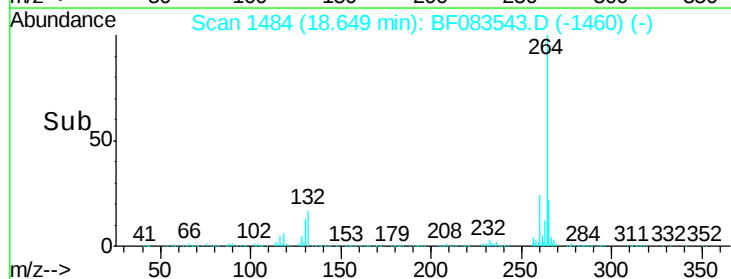
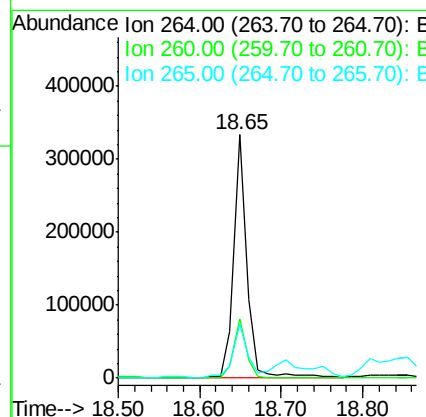
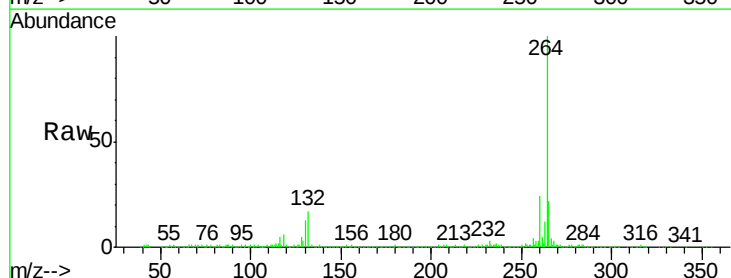
Manual Integrations
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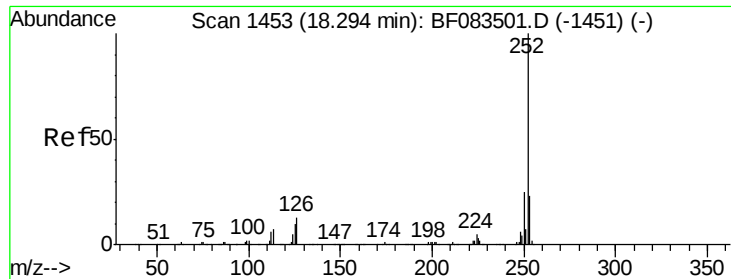
Mmdadoda
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#86
Perylene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	22.4	17.8	26.6





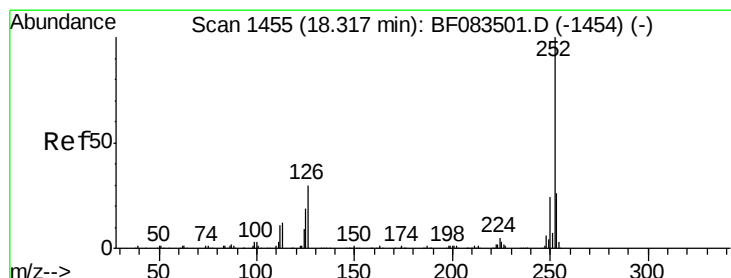
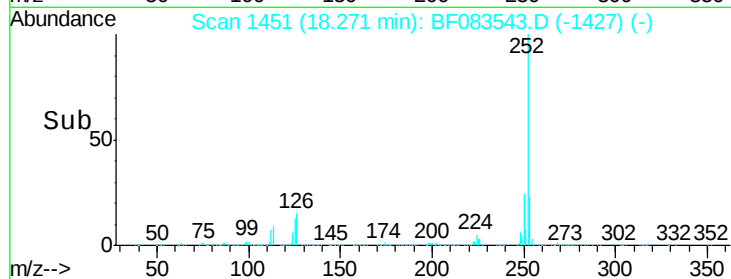
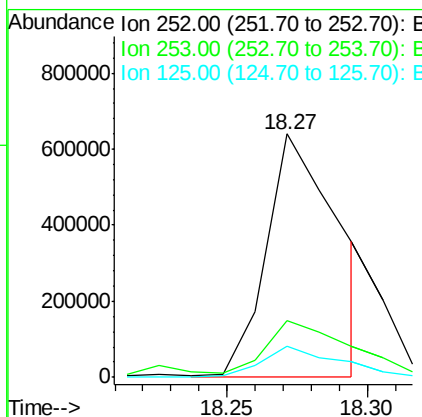
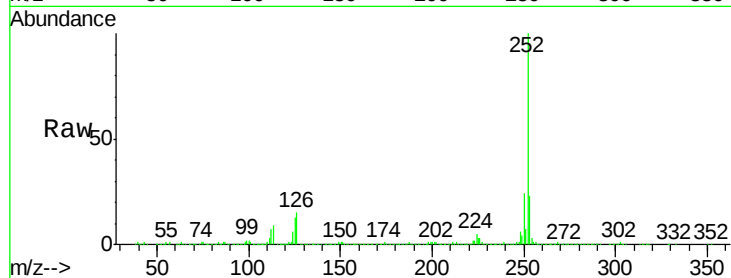
#87
Benzo(b)fluoranthene
Concen: 54.46 ng m
RT: 18.27 min Scan# 1451
Delta R.T. -0.02 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	13.0	8.2	12.4

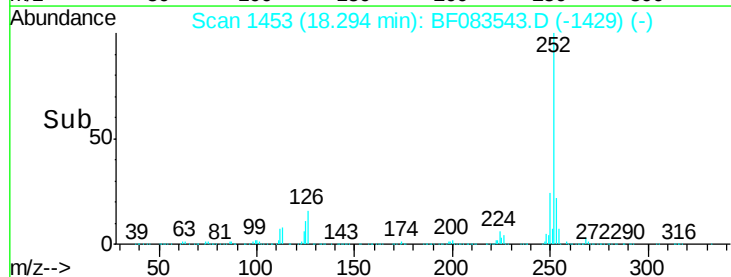
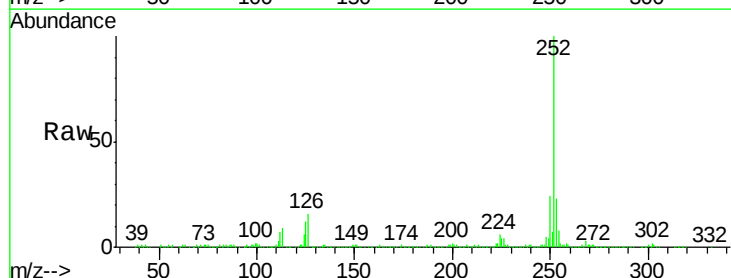
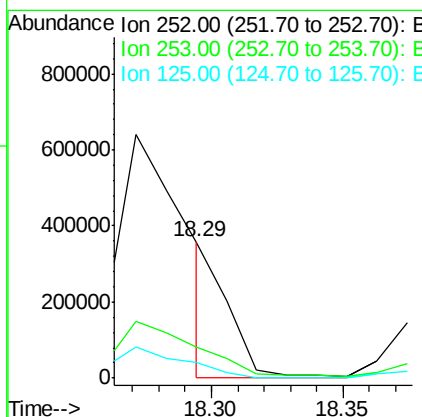
Manual Integrations
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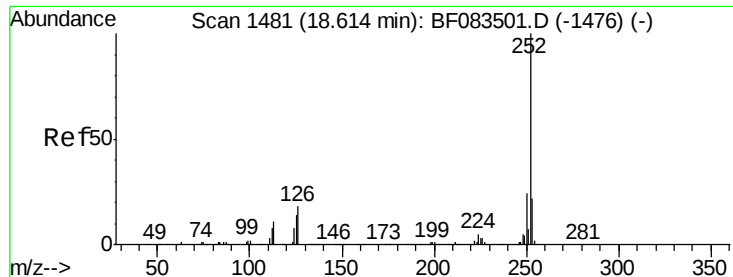
Mmdadoda
12/7/2015 6:33:33 PM



#88
Benzo(k)fluoranthene
Concen: 7.84 ng m
RT: 18.29 min Scan# 1453
Delta R.T. -0.02 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.6	27.8
125	11.7	11.5	17.3





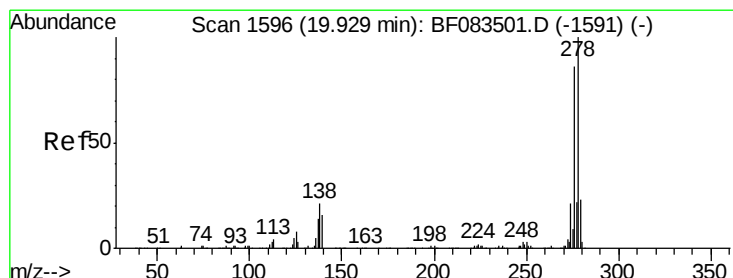
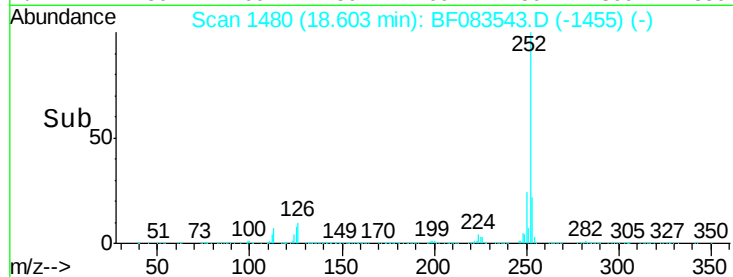
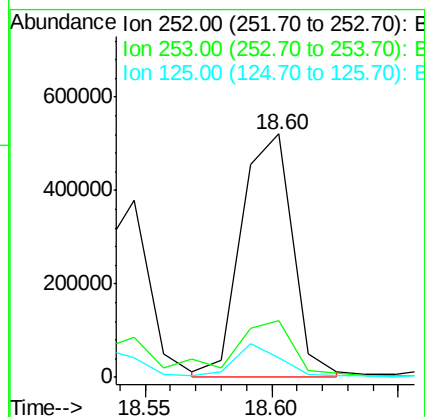
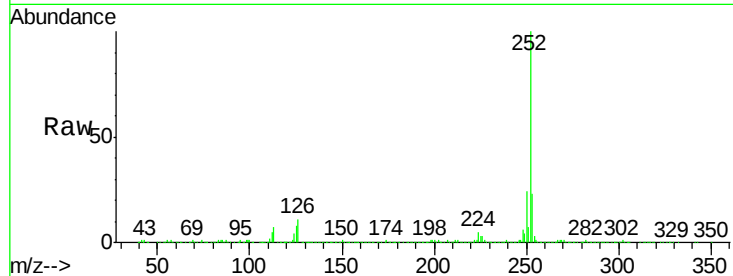
#89
Benzo(a)pyrene
Concen: 36.04 ng/ml
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Instrument :
BNA_F
ClientSampleId :
S33-15

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	8.1	11.0	16.6

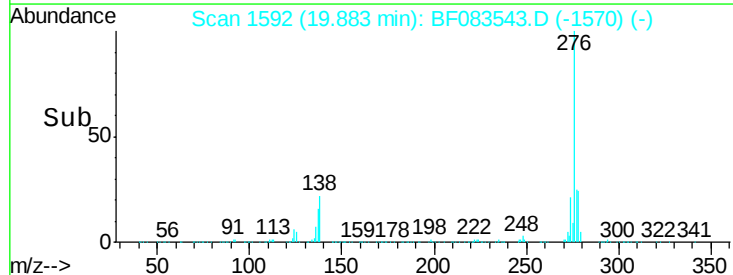
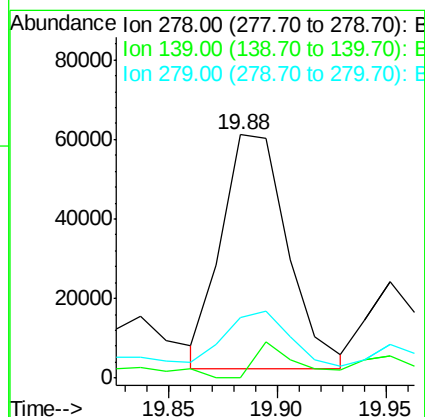
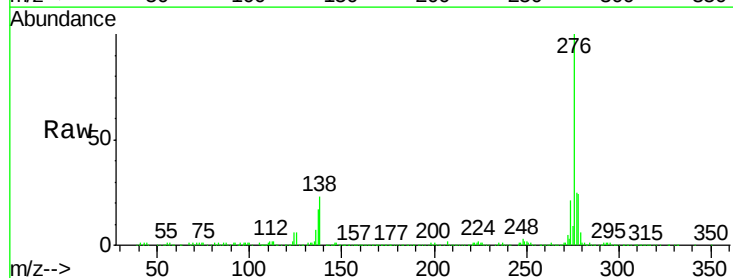
Manual Integrations
APPROVED

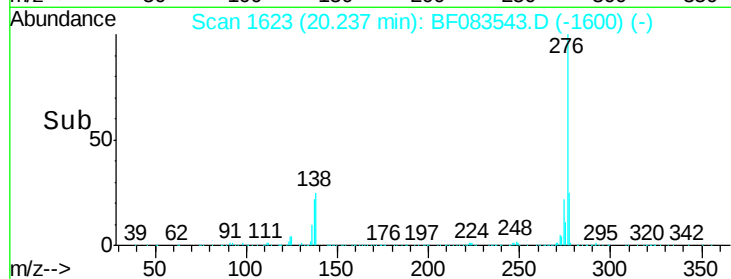
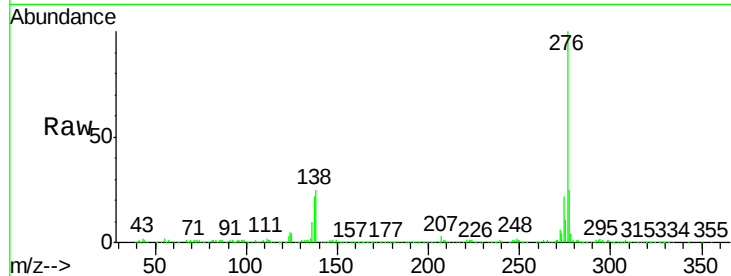
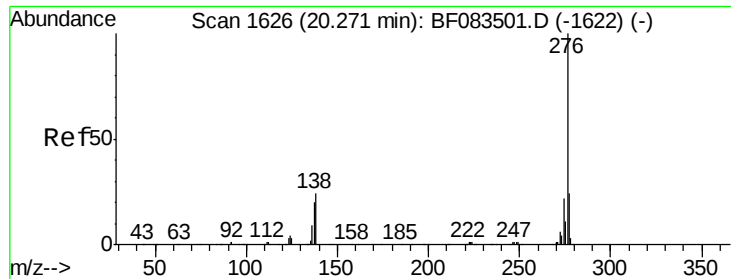
Mmdadoda
12/7/2015 6:33:33 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.31 ng/ml
RT: 19.88 min Scan# 1592
Delta R.T. -0.05 min
Lab File: BF083543.D
Acq: 7 Dec 2015 4:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2
279	24.7	18.6	28.0





#91

Benzo(a,h,i)perylene

Concen: 19.78 ng

RT: 20.24 min Scan# 1623

Delta R.T. -0.03 min

Lab File: BF083543.D

Acq: 7 Dec 2015 4:47

Instrument :

BNA_F

ClientSampleId :

S33-15

Tot Ion:	276	Resp:	393234
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.2	28.8
138	25.2	19.5	29.3

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:33 PM

