

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
 Data File : BF083897.D
 Acq On : 18 Dec 2015 5:16
 Operator : UM/SJ
 Sample : G4680-08
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K202-(12-13)

Manual Integrations
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Quant Time: Dec 18 13:29:57 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 01:01:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	56970	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	198731	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	90708	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	138946	20.00	ng	0.01
75) Chrysene-d12	14.04	240	104133	20.00	ng	0.01
86) Perylene-d12	15.48	264	89182	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	430321	118.21	ng	0.01
7) Phenol-d6	6.52	99	555609	124.69	ng	0.01
23) Nitrobenzene-d5	7.44	82	334670	96.11	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	118537	118.62	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	637627	101.86	ng	0.00
78) Terphenyl-d14	12.99	244	421568	95.42	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.18	128	91458	7.29	ng	99
37) 2-Methylnaphthalene	8.88	142	95610	13.84	ng	97
48) Acenaphthylene	9.78	152	37380	3.53	ng	# 87
49) Dimethylphthalate	9.63	163	128967	16.94	ng	# 96
70) Phenanthrene	11.42	178	94078	11.21	ng	# 95
71) Anthracene	11.48	178	18854	2.32	ng	# 77
74) Fluoranthene	12.62	202	71288	8.51	ng	92
77) Pyrene	12.84	202	124745	18.88	ng	98
80) Benzo(a)anthracene	14.03	228	73631	11.50	ng	# 93
82) Chrysene	14.07	228	84545m	13.67	ng	
85) Indeno(1,2,3-cd)pyrene	16.92	276	27664	5.98	ng	95
87) Benzo(b)fluoranthene	15.07	252	63764m	9.81	ng	
88) Benzo(k)fluoranthene	15.08	252	24409m	4.55	ng	
89) Benzo(a)pyrene	15.43	252	60562	11.28	ng	# 89
90) Dibenzo(a,h)anthracene	16.92	278	9988	2.39	ng	# 59
91) Benzo(g,h,i)perylene	17.36	276	30073	7.35	ng	93

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

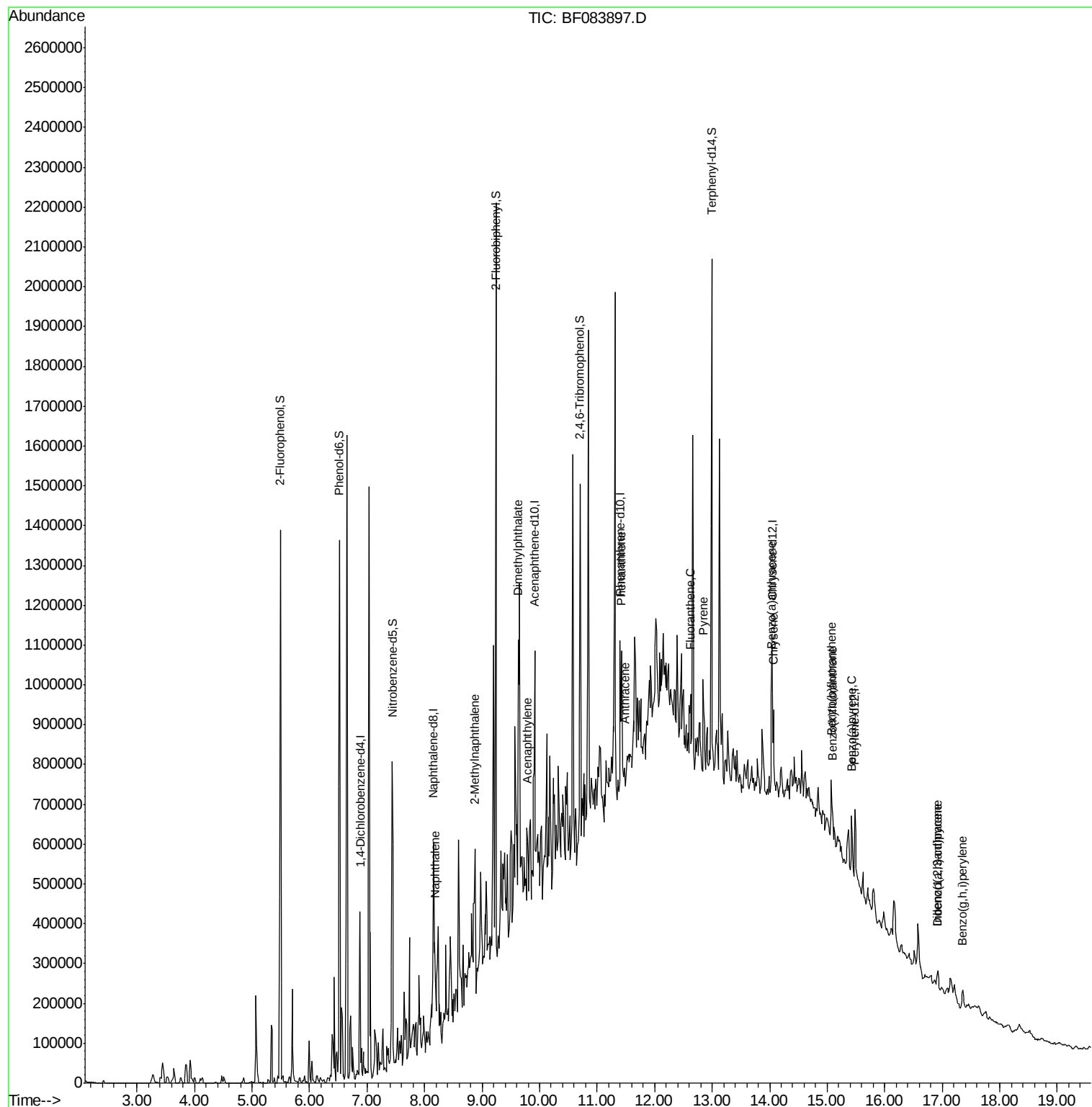
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
Data File : BF083897.D
Acq On : 18 Dec 2015 5:16
Operator : UM/SJ
Sample : G4680-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

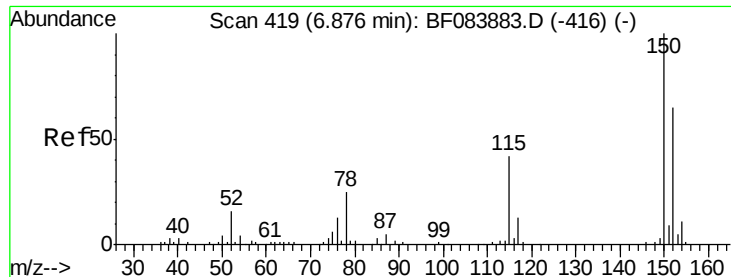
Instrument :
BNA_F
ClientSampleId :
K202-(12-13)

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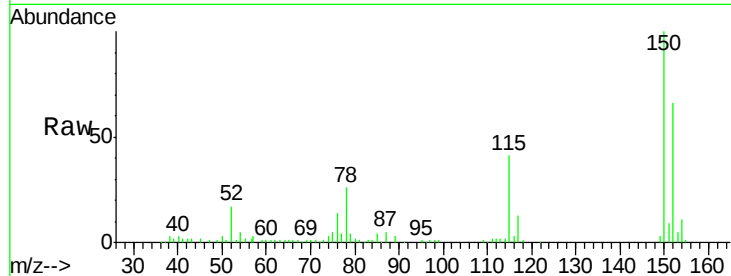
Quant Time: Dec 18 13:29:57 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 01:01:02 2015
Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.88 min Scan# 419
 Delta R.T. -0.00 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

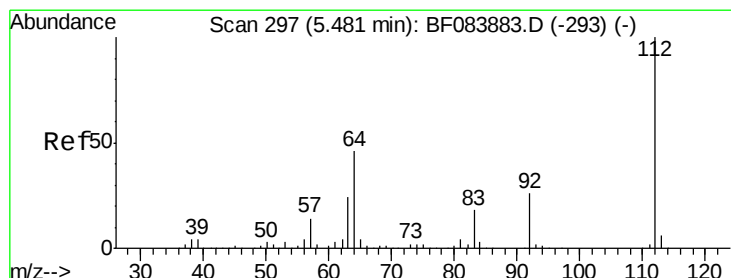
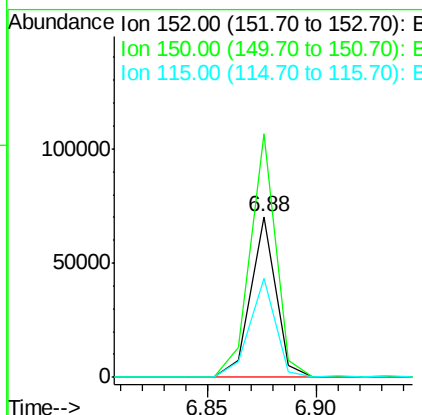
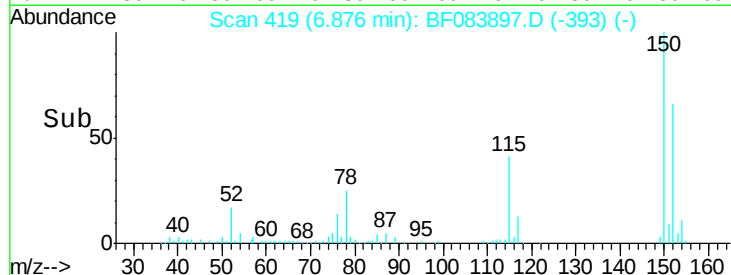
Instrument :
 BNA_F
 ClientSampleId :
 K202-(12-13)



Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.4	123.0	184.4
115	61.8	51.4	77.2

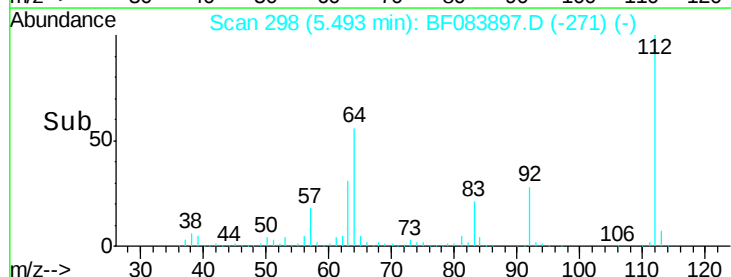
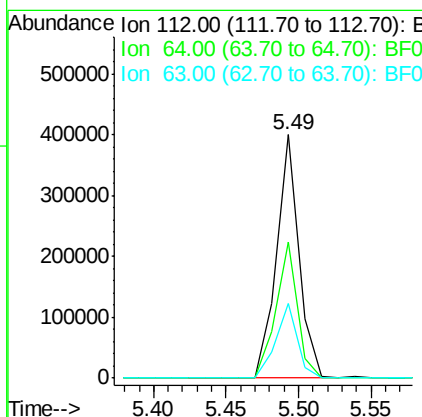
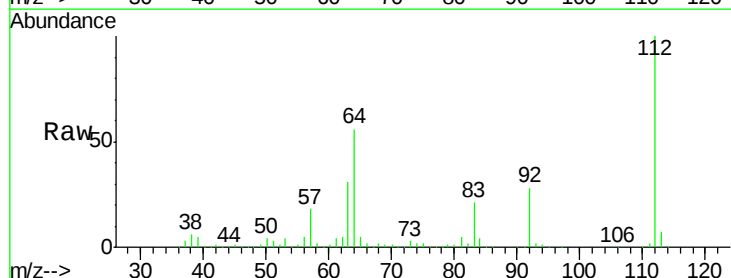
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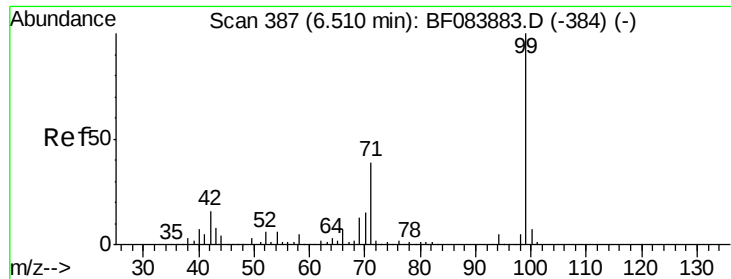
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#5
 2-Fluorophenol
 Concen: 118.21 ng
 RT: 5.49 min Scan# 298
 Delta R.T. 0.01 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	36.6	55.0#
63	30.9	19.4	29.0#





#7

Phenol-d6

Concen: 124.69 ng

RT: 6.52 min Scan# 388

Delta R.T. 0.01 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

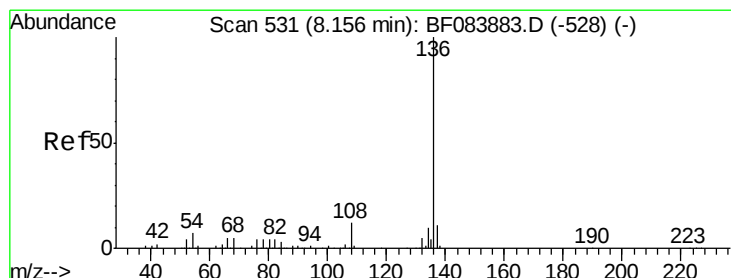
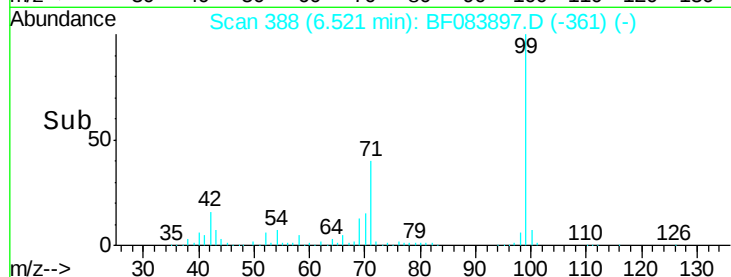
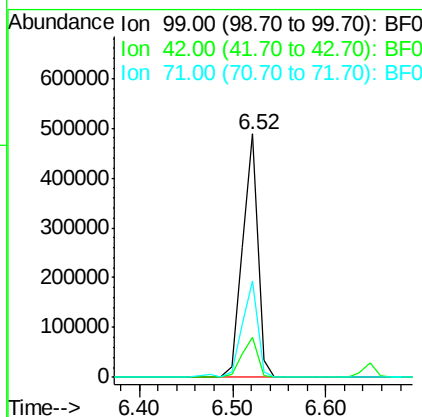
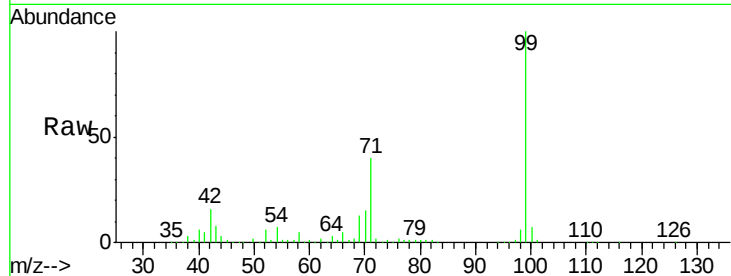
ClientSampleId :

K202-(12-13)

Tgt Ion:	99	Resp:	555609
Ion Ratio	Lower	Upper	
99	100		
42	16.4	12.8	19.2
71	39.7	30.9	46.3

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#21

Naphthalene-d8

Concen: 20.00 ng

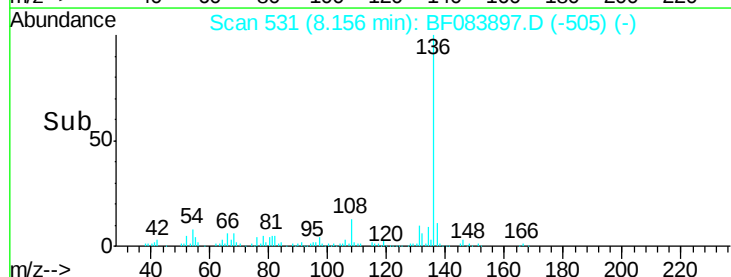
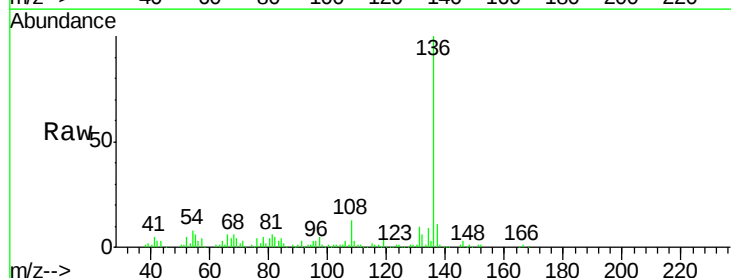
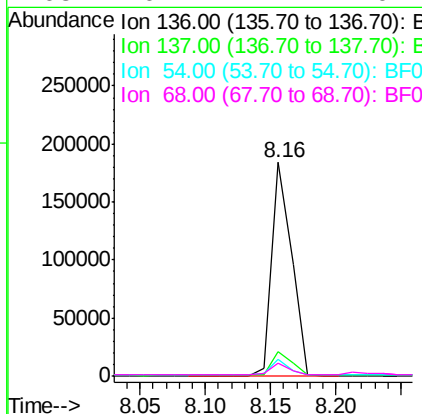
RT: 8.16 min Scan# 531

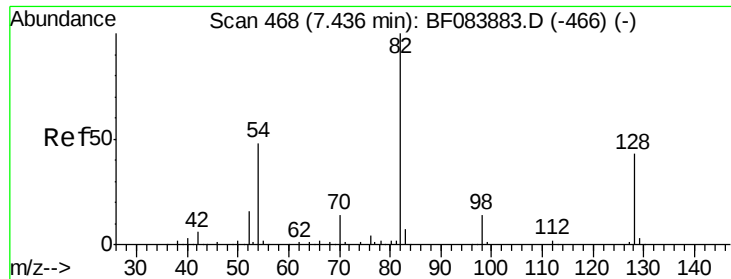
Delta R.T. -0.00 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Tgt Ion:	136	Resp:	198731
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.7	13.1
54	8.1	5.8	8.8
68	6.2	4.2	6.2





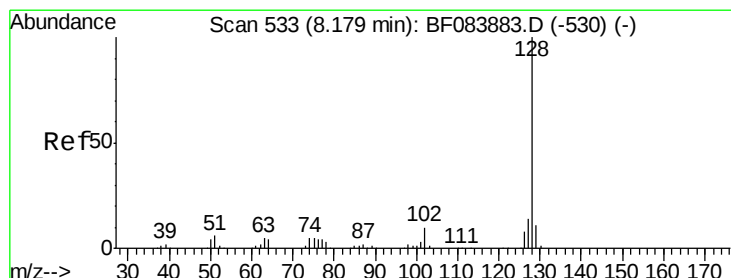
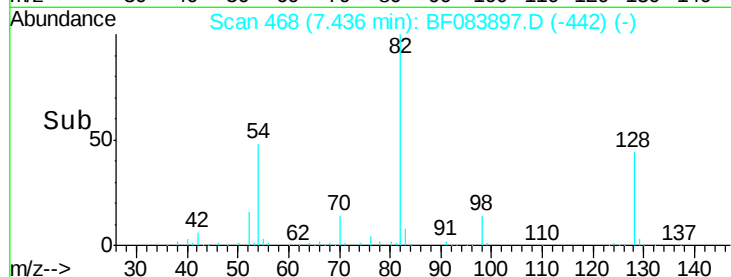
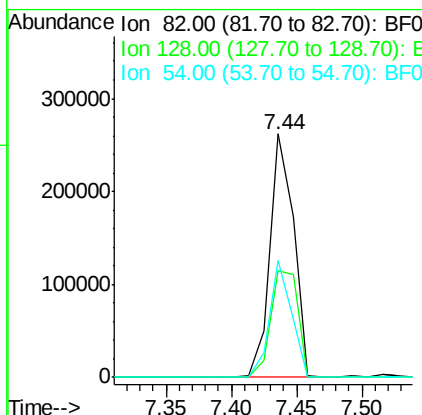
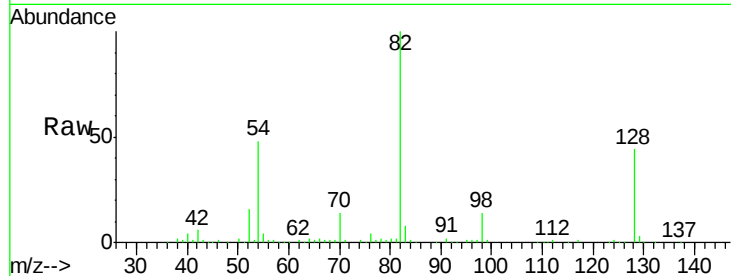
#23
 Nitrobenzene-d5
 Concen: 96.11 ng
 RT: 7.44 min Scan# 468
 Delta R.T. -0.00 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

Instrument :
 BNA_F
 ClientSampleId :
 K202-(12-13)

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	43.8	34.6	51.8
54	48.1	38.4	57.6

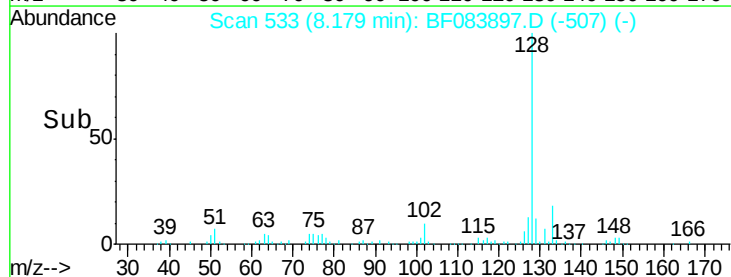
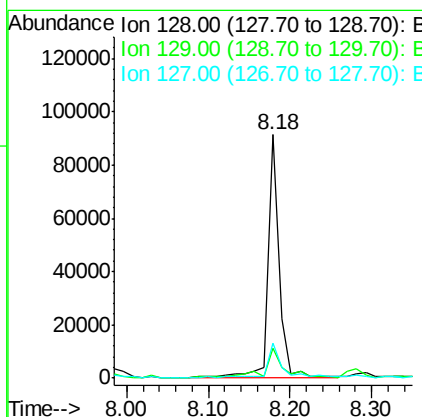
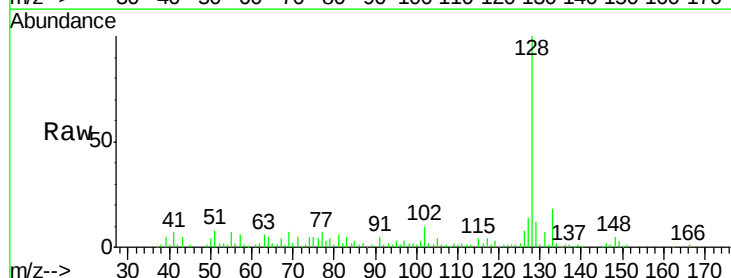
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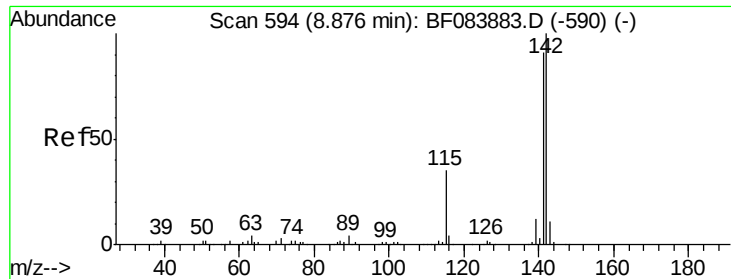
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#31
 Naphthalene
 Concen: 7.29 ng
 RT: 8.18 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	12.1	9.1	13.7
127	14.1	11.1	16.7





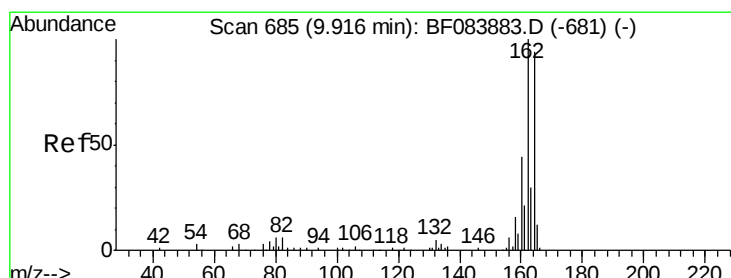
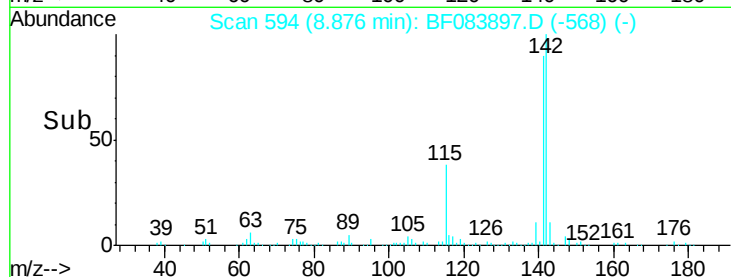
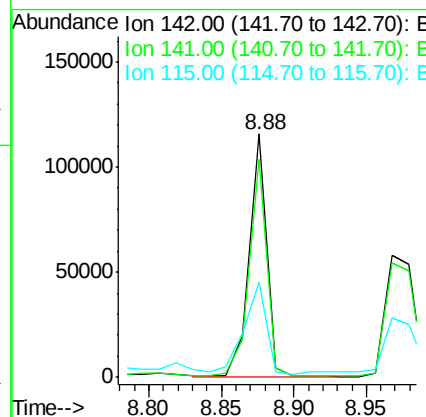
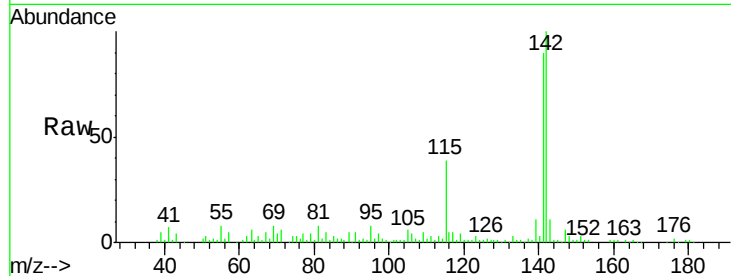
#37
2-Methylnaphthalene
Concen: 13.84 ng
RT: 8.88 min Scan# 594
Delta R.T. 0.00 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Instrument :
BNA_F
ClientSampleId :
K202-(12-13)

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	95610		
141	89.7	72.4	108.6	
115	38.9	27.9	41.9	

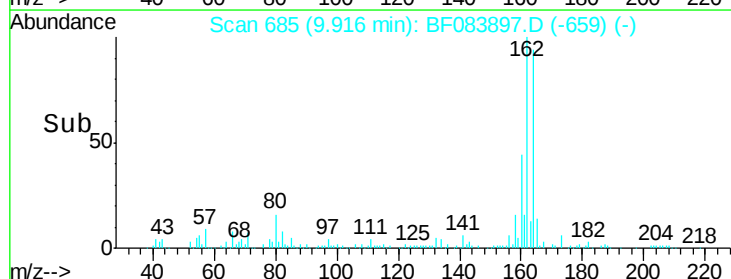
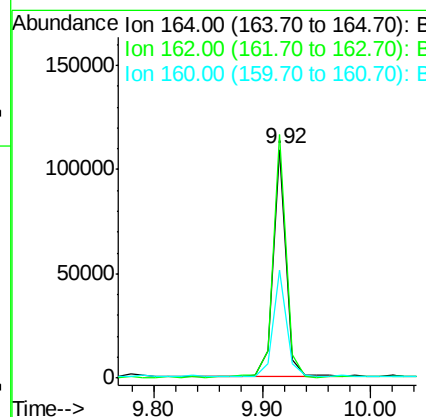
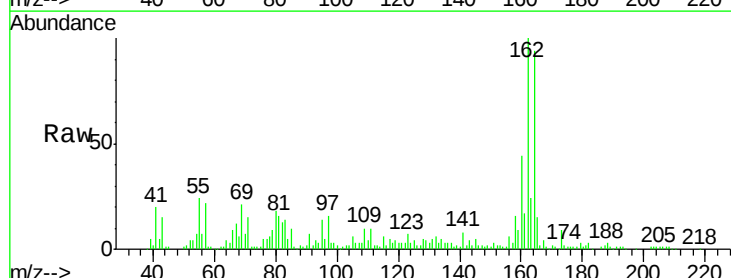
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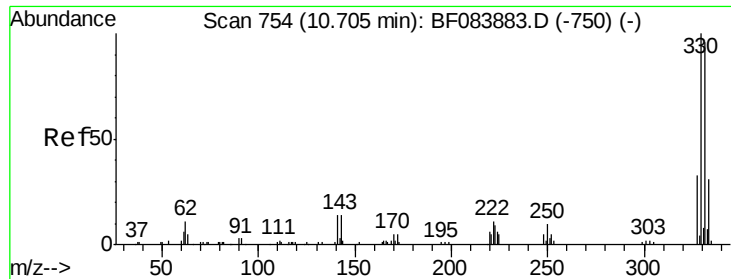
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 685
Delta R.T. -0.00 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	90708		
162	106.4	85.1	127.7	
160	47.3	37.5	56.3	





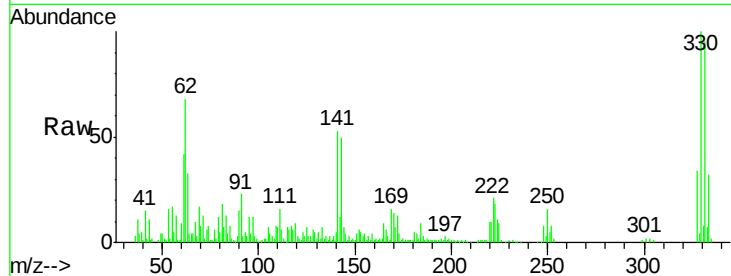
#41
 2,4,6-Tribromophenol
 Concen: 118.62 ng
 RT: 10.70 min Scan# 754
 Delta R.T. -0.00 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

Instrument :
 BNA_F
 ClientSampleId :
 K202-(12-13)

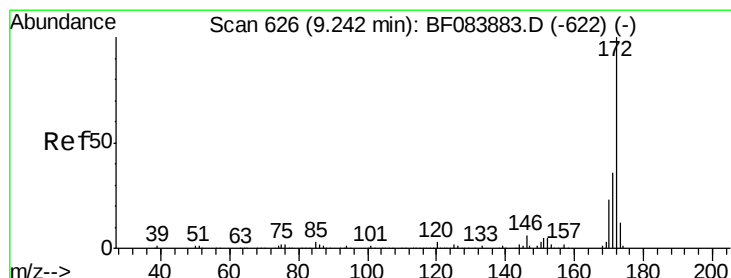
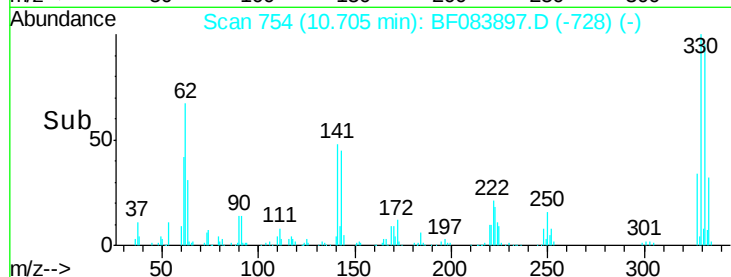
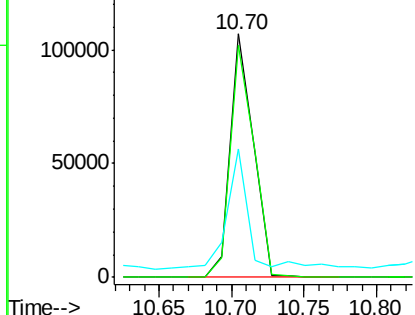
Tgt	Ion	Ratio	Resp	Lower	Upper
330	100		118537		
332	96.7	76.6	114.8		
141	48.5	27.8	41.6#		

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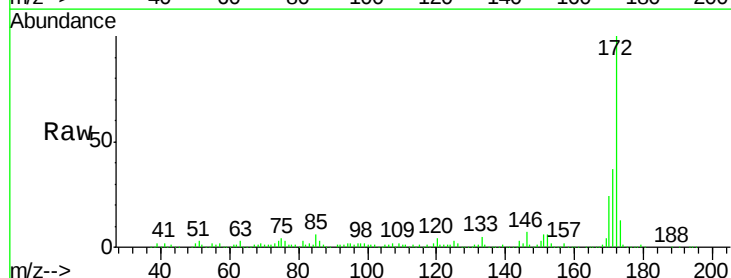


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

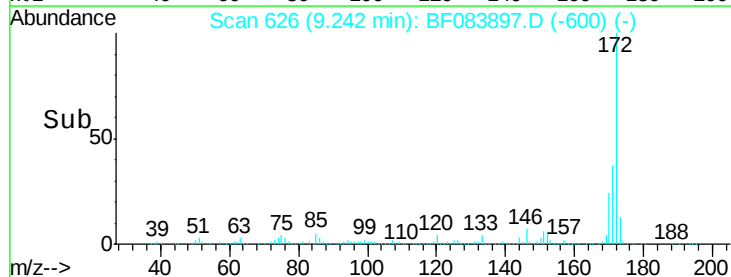
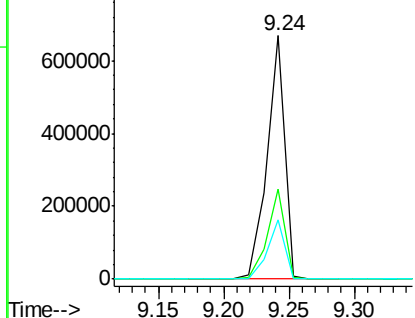


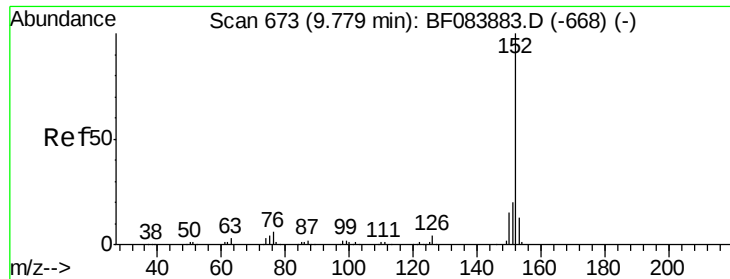
#44
 2-Fluorobiphenyl
 Concen: 101.86 ng
 RT: 9.24 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: BF083897.D
 Acq: 18 Dec 2015 5:16

Tgt	Ion	Ratio	Resp	Lower	Upper
172	100		637627		
171	36.9	28.9	43.3		
170	24.2	18.6	27.8		



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: 3.53 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.00 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

ClientSampleId :

K202-(12-13)

Tgt Ion:152 Resp: 37380
Ion Ratio Lower Upper

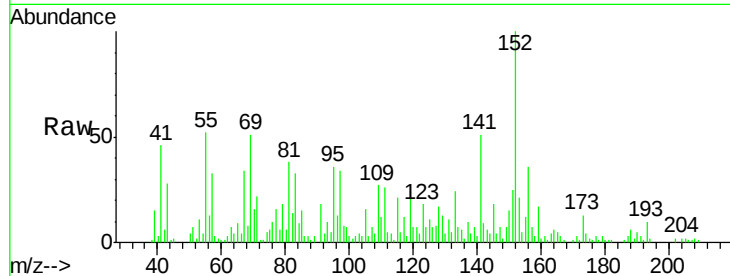
152 100

151 24.9 16.3 24.5#

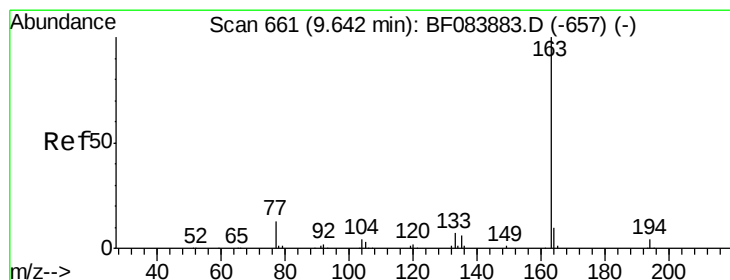
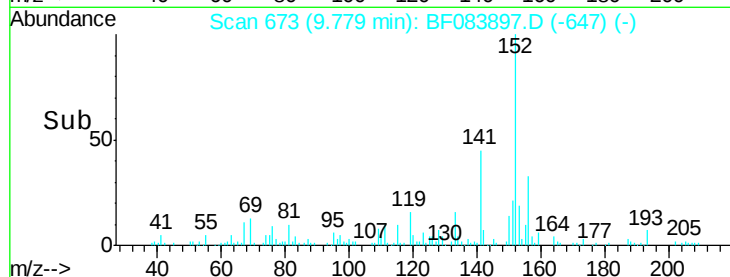
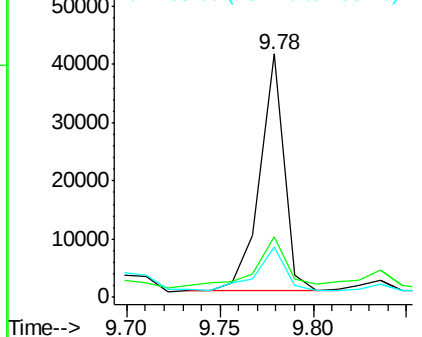
153 20.7 10.4 15.6#

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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: 16.94 ng

RT: 9.63 min Scan# 660

Delta R.T. -0.01 min

Lab File: BF083897.D

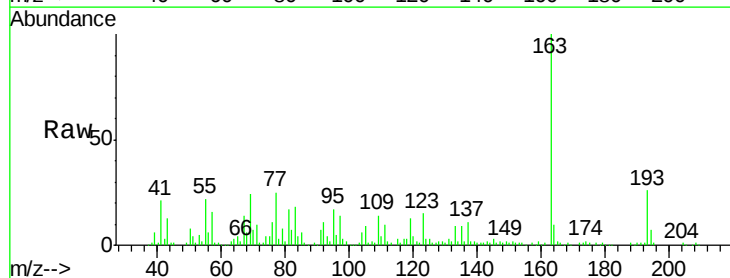
Acq: 18 Dec 2015 5:16

Tgt Ion:163 Resp: 128967
Ion Ratio Lower Upper

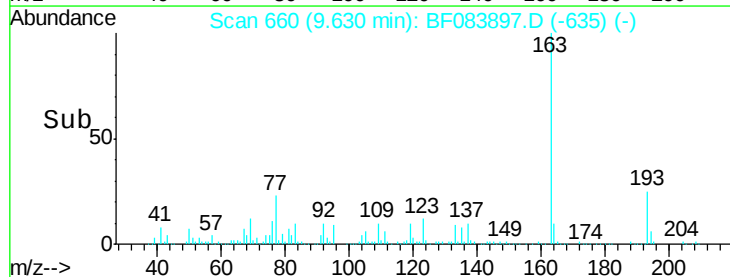
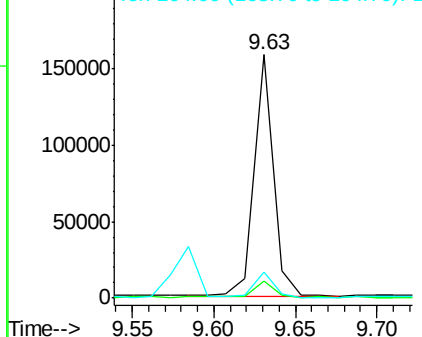
163 100

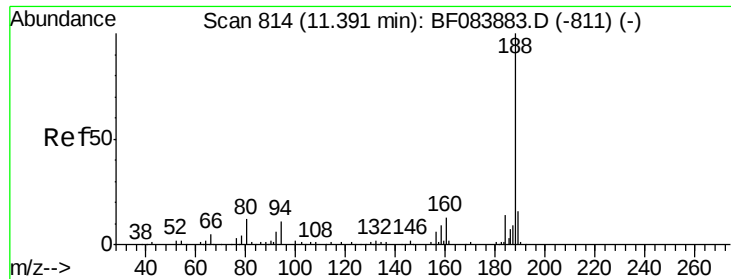
194 7.0 3.0 4.6#

164 10.5 7.9 11.9



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





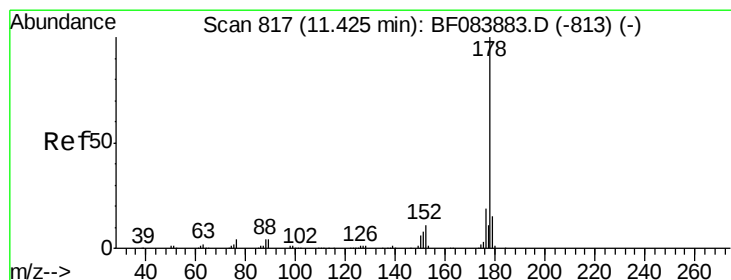
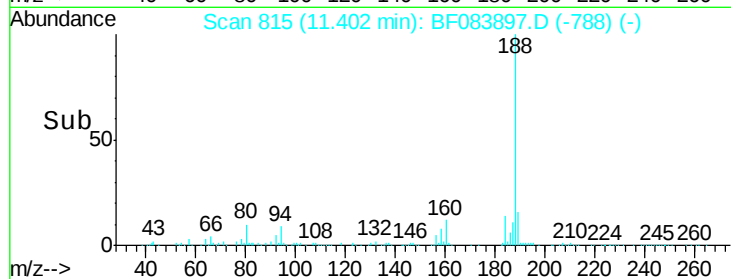
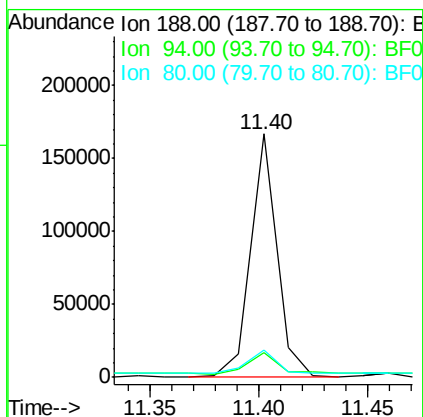
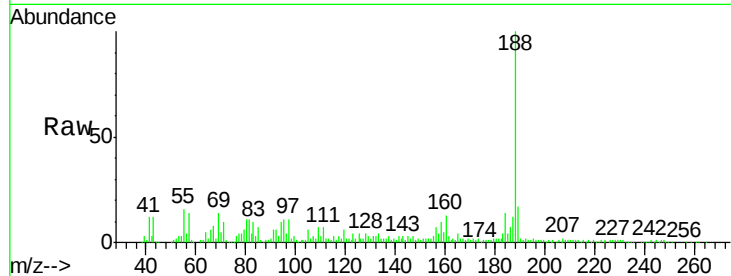
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 815
Delta R.T. 0.01 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Instrument :
BNA_F
ClientSampleId :
K202-(12-13)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.1	9.0	13.4
80	11.1	9.6	14.4

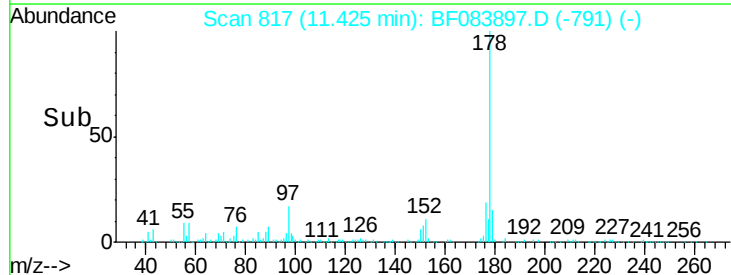
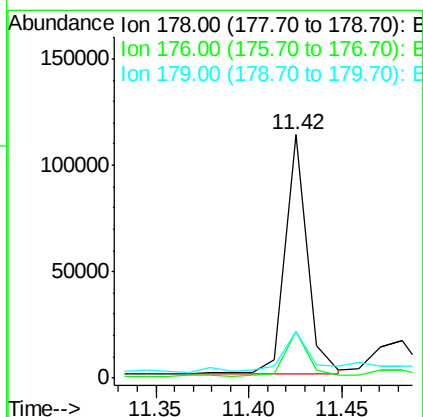
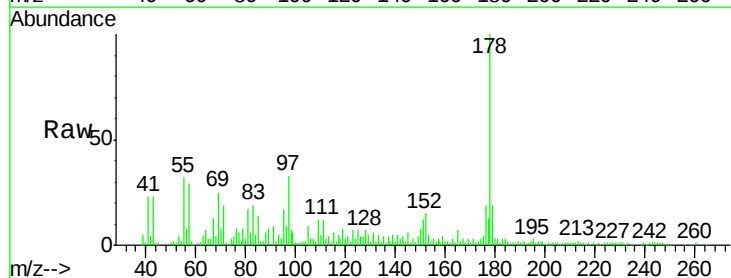
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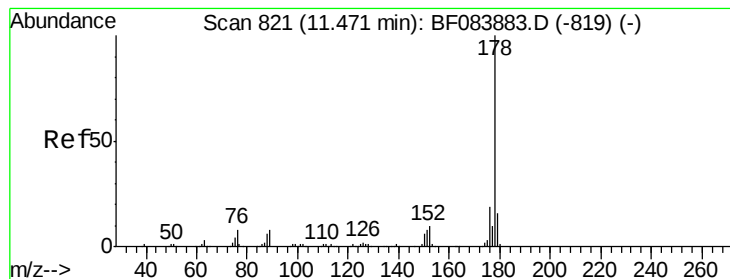
MMdadoda
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#70
Phenanthrene
Concen: 11.21 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.00 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.3	15.3	22.9
179	19.3	12.0	18.0#





#71

Anthracene

Concen: 2.32 ng

RT: 11.48 min Scan# 822

Delta R.T. 0.01 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

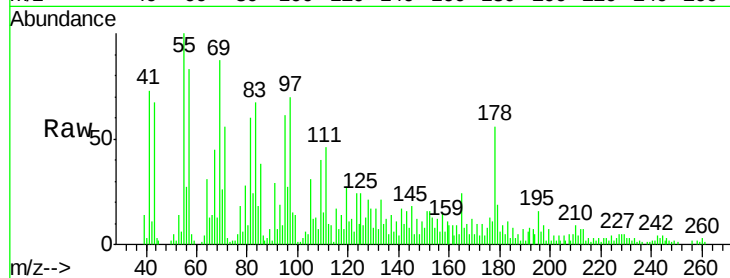
ClientSampleId :

K202-(12-13)

Manual Integrations
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Tgt Ion:	178	Resp:	18854
Ion Ratio	Lower	Upper	
178	100		
176	22.9	15.4	23.0
179	32.9	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

150000

100000

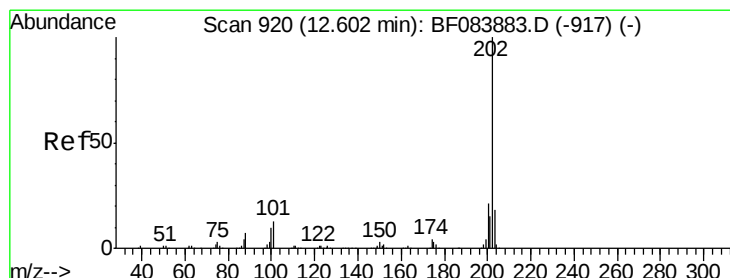
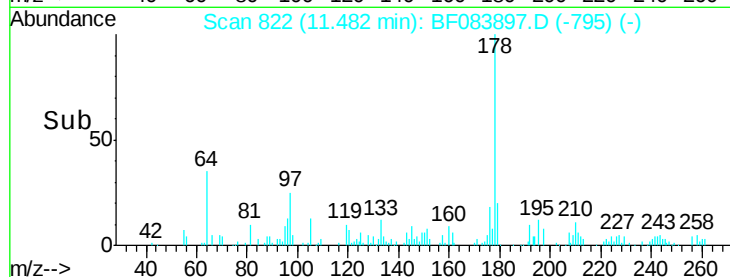
50000

0

11.45

11.50

Time-->



#74

Fluoranthene

Concen: 8.51 ng

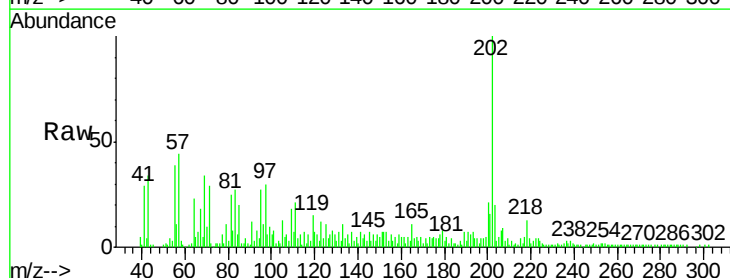
RT: 12.62 min Scan# 922

Delta R.T. 0.02 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Tgt Ion:	202	Resp:	71288
Ion Ratio	Lower	Upper	
202	100		
101	7.8	0.0	32.8
203	20.3	0.0	37.9



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

80000

60000

40000

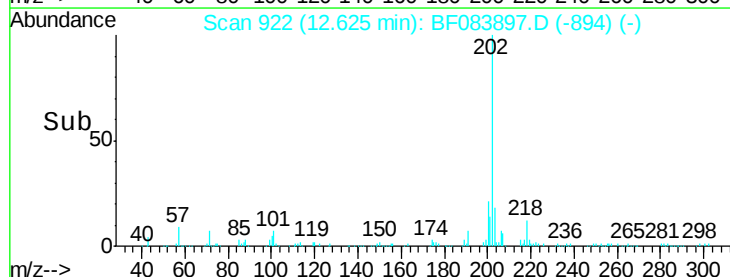
20000

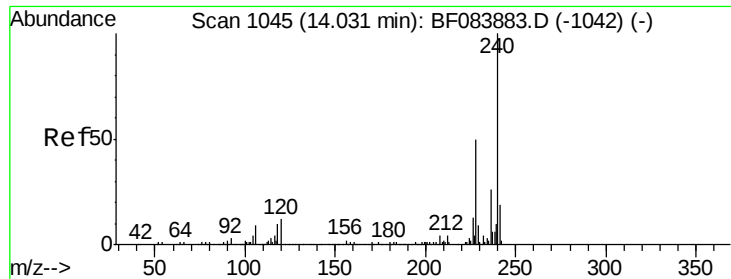
0

12.60

12.65

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. 0.01 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

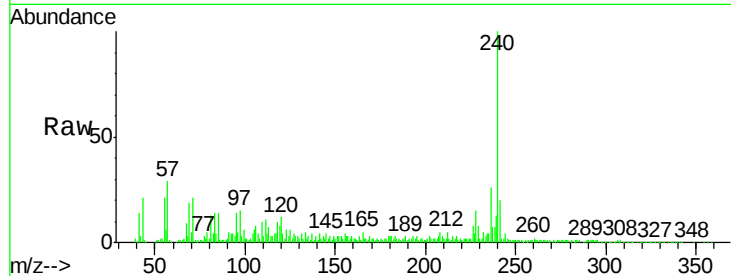
ClientSampleId :

K202-(12-13)

Tgt Ion:	240	Resp:	104133
Ion Ratio	Lower	Upper	
240	100		
120	12.0	9.5	14.3
236	25.7	20.6	31.0

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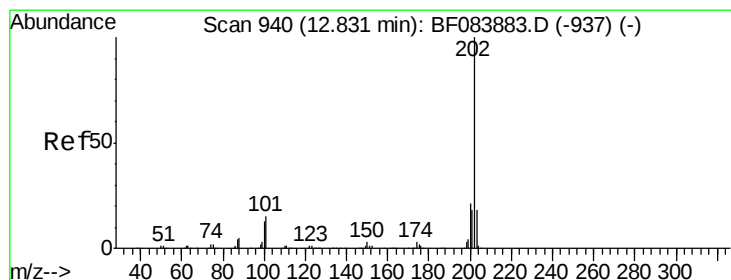
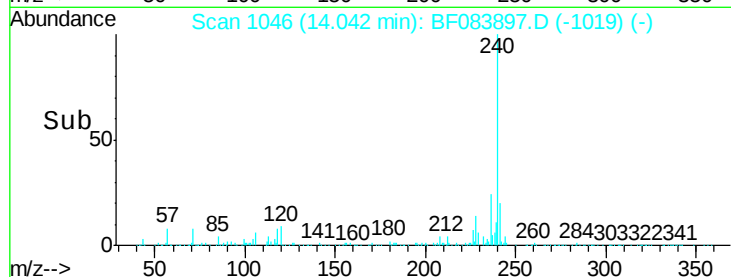
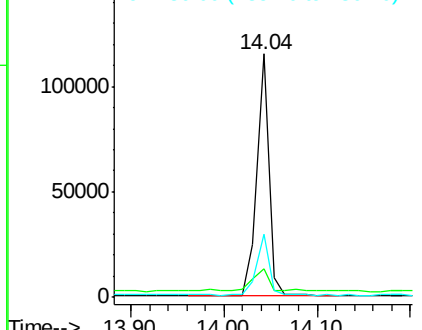
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 18.88 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.01 min

Lab File: BF083897.D

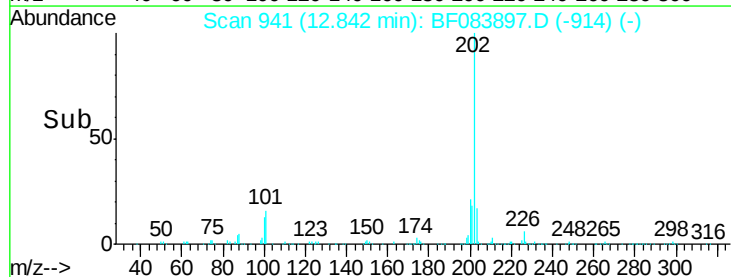
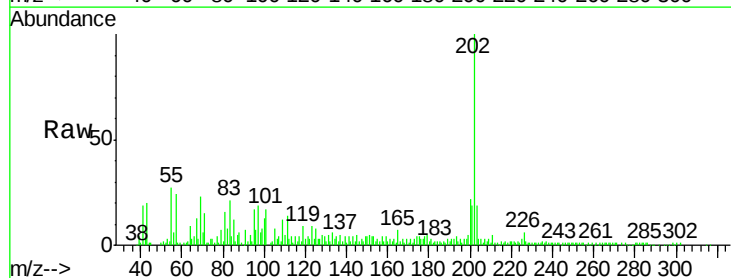
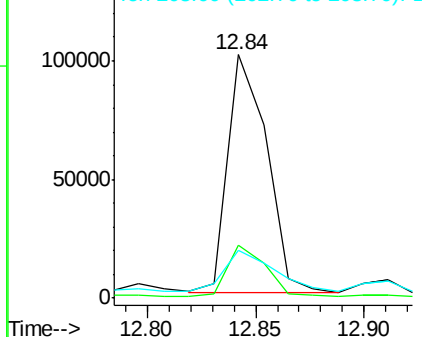
Acq: 18 Dec 2015 5:16

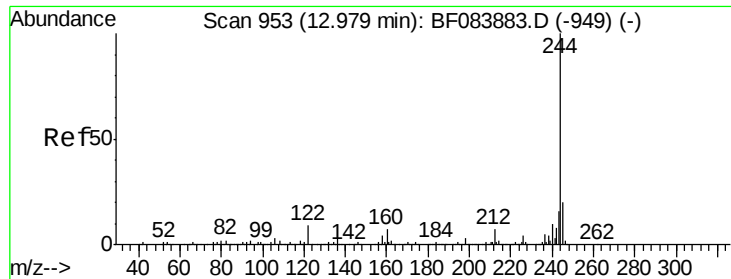
Tgt Ion:	202	Resp:	124745
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.2	25.8
203	19.5	14.3	21.5

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: 95.42 ng

RT: 12.99 min Scan# 954

Delta R.T. 0.01 min

Lab File: BF083897.D

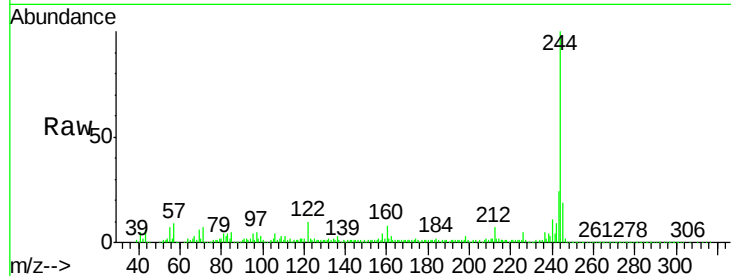
Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

ClientSampleId :

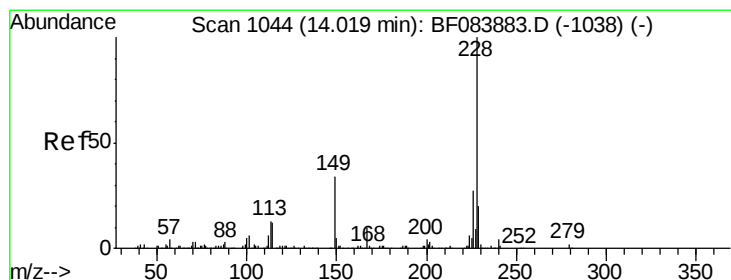
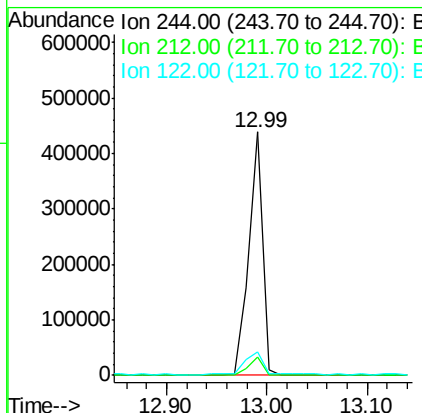
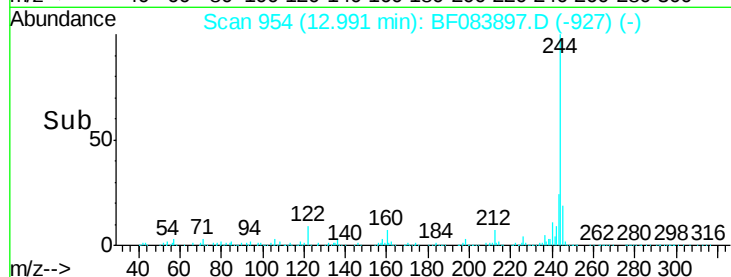
K202-(12-13)



Tgt Ion	Ratio	Resp	Lower	Upper
244	100	421568		
212	7.4	5.7	8.5	
122	9.7	7.4	11.0	

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#80

Benzo(a)anthracene

Concen: 11.50 ng

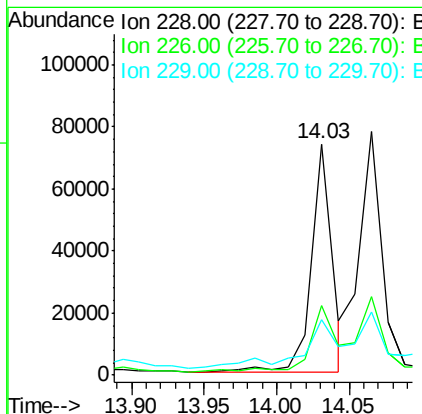
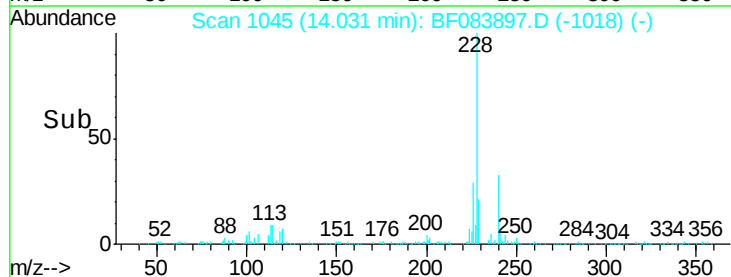
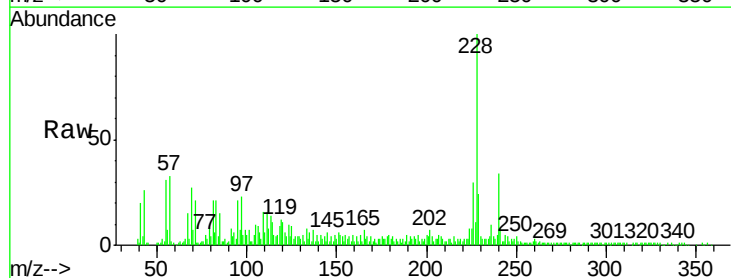
RT: 14.03 min Scan# 1045

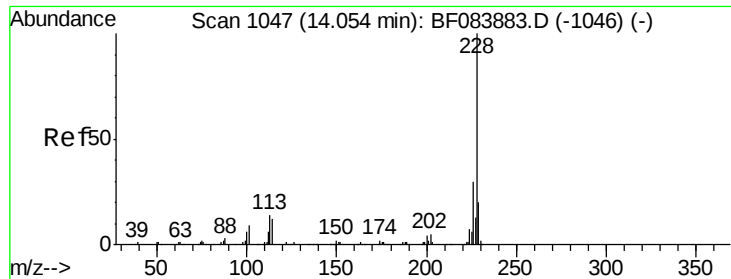
Delta R.T. 0.01 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	73631		
226	30.2	21.8	32.6	
229	23.9	15.8	23.8#	





#82

Chrysene

Concen: 13.67 ng m

RT: 14.07 min Scan# 1048

Delta R.T. 0.01 min

Lab File: BF083897.D

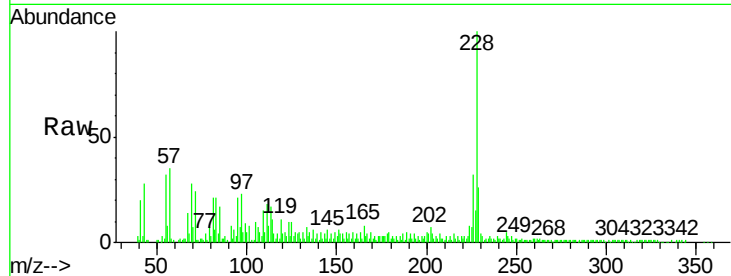
Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

ClientSampleId :

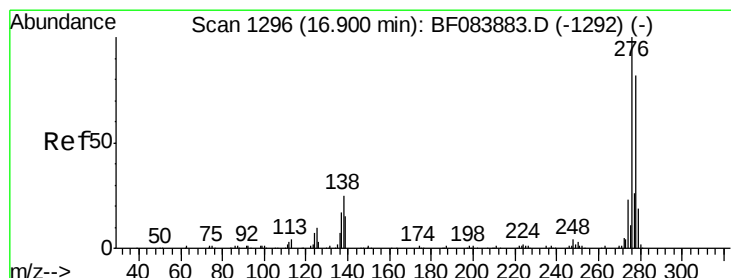
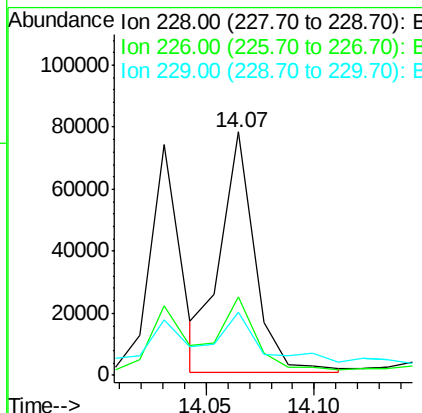
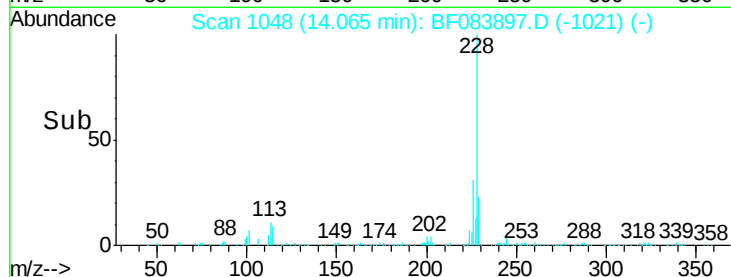
K202-(12-13)



Tgt Ion:	228	Resp:	84545
Ion Ratio	Lower	Upper	
228	100		
226	32.2	24.3	36.5
229	25.8	16.1	24.1#

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

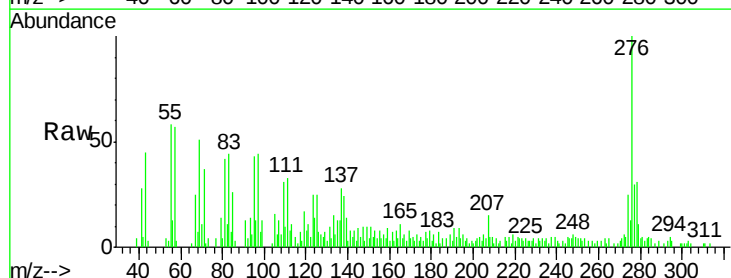
Concen: 5.98 ng

RT: 16.92 min Scan# 1298

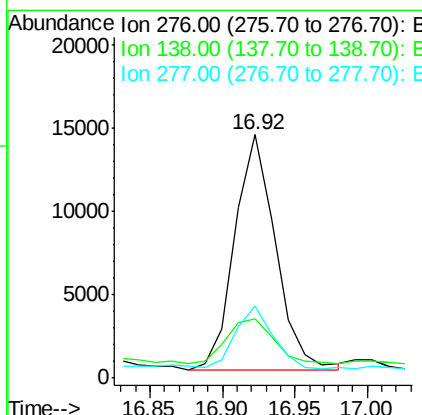
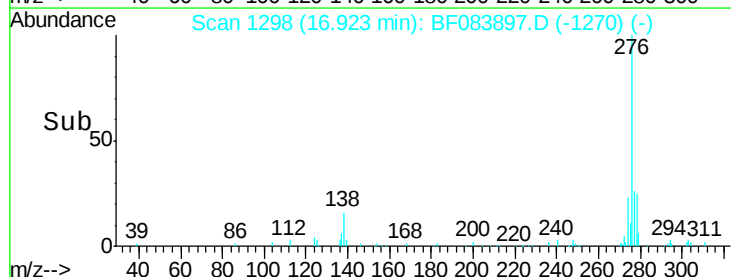
Delta R.T. 0.02 min

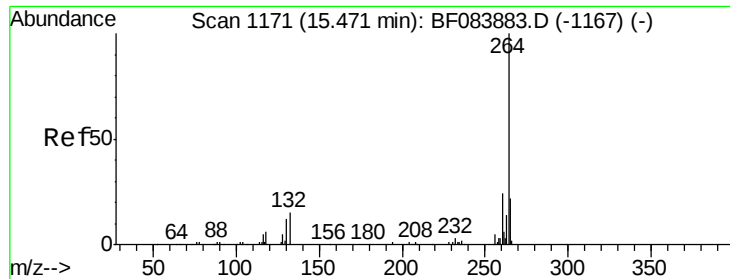
Lab File: BF083897.D

Acq: 18 Dec 2015 5:16



Tgt Ion:	276	Resp:	27664
Ion Ratio	Lower	Upper	
276	100		
138	21.4	20.6	30.8
277	24.4	20.1	30.1





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.48 min Scan# 1172

Delta R.T. 0.01 min

Lab File: BF083897.D

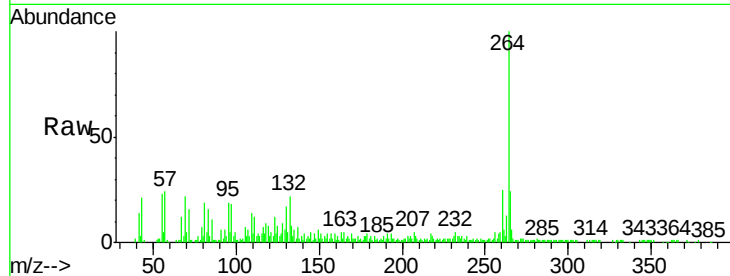
Acq: 18 Dec 2015 5:16

Instrument :

BNA_F

ClientSampleId :

K202-(12-13)



Tgt Ion: 264 Resp: 89182

Ion Ratio Lower Upper

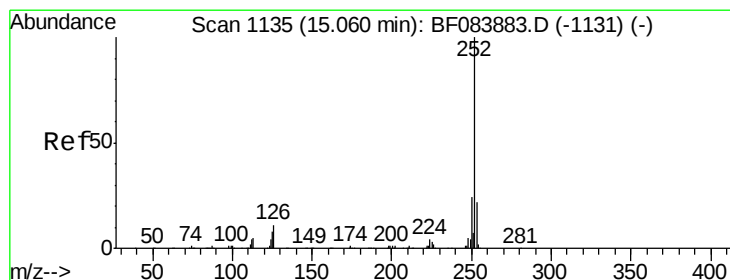
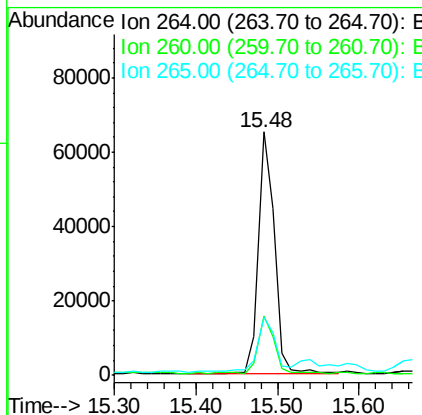
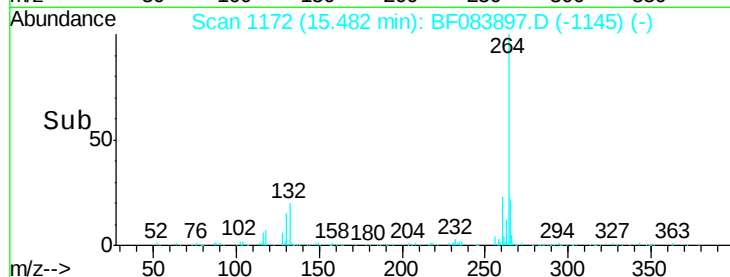
264 100

260 24.6 19.4 29.2

265 23.6 17.8 26.6

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#87

Benzo(b)fluoranthene

Concen: 9.81 ng m

RT: 15.07 min Scan# 1136

Delta R.T. 0.01 min

Lab File: BF083897.D

Acq: 18 Dec 2015 5:16

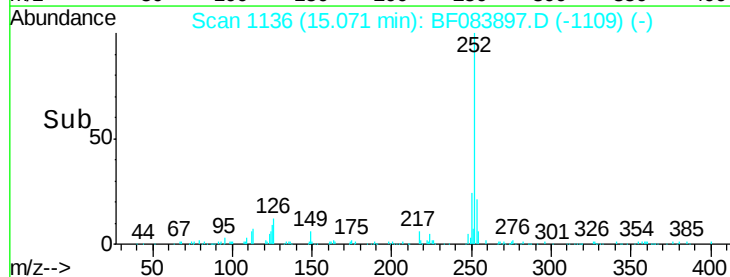
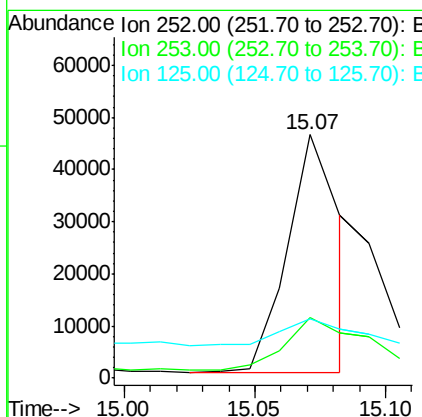
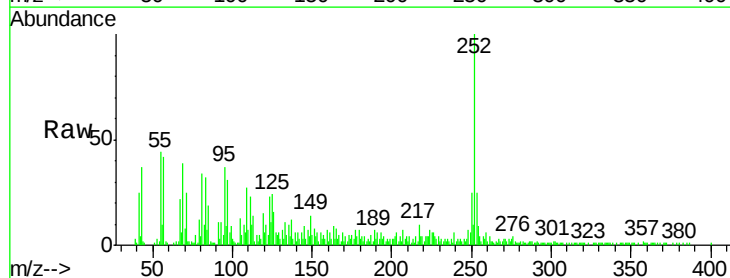
Tgt Ion: 252 Resp: 63764

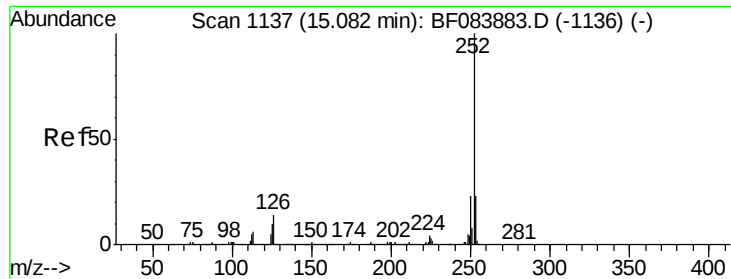
Ion Ratio Lower Upper

252 100

253 24.7 17.3 25.9

125 24.4 6.5 9.7#





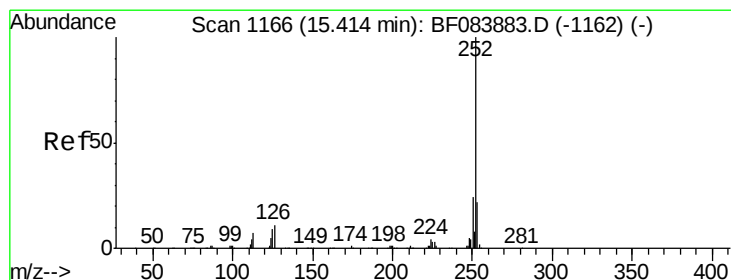
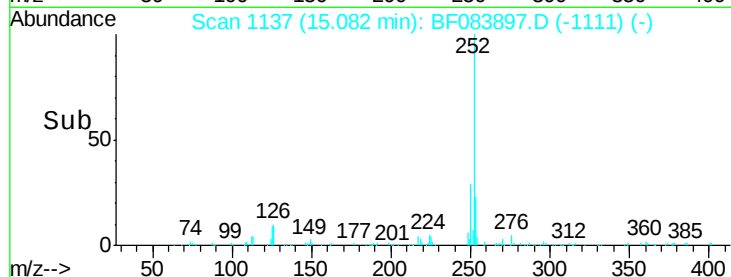
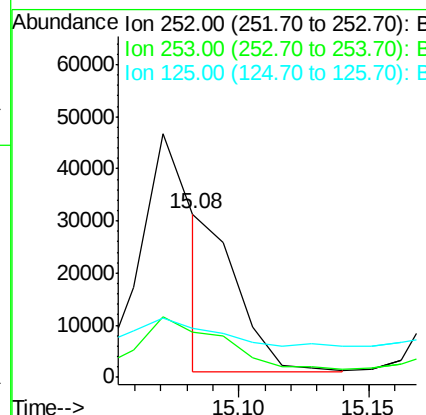
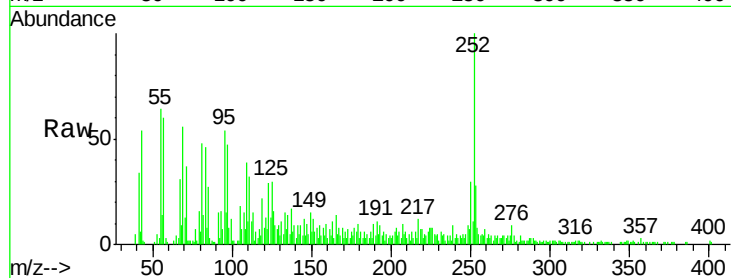
#88
Benzo(k)fluoranthene
Concen: 4.55 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.00 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Instrument :
BNA_F
ClientSampleId :
K202-(12-13)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.8	18.1	27.1#
125	30.2	9.0	13.6#

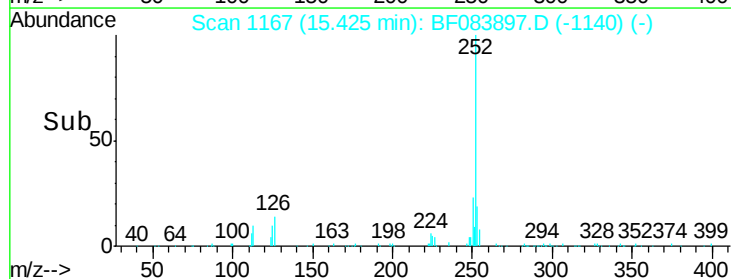
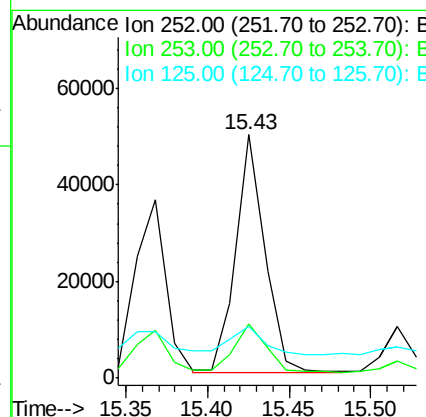
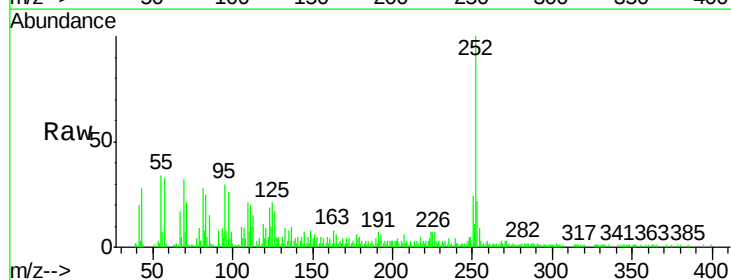
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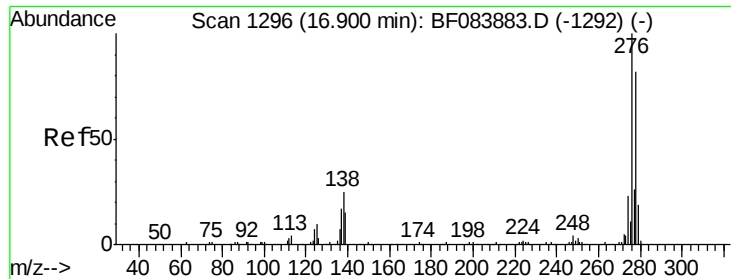
MMdadoda
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#89
Benzo(a)pyrene
Concen: 11.28 ng
RT: 15.43 min Scan# 1167
Delta R.T. 0.01 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.3	25.9
125	21.0	7.0	10.4#





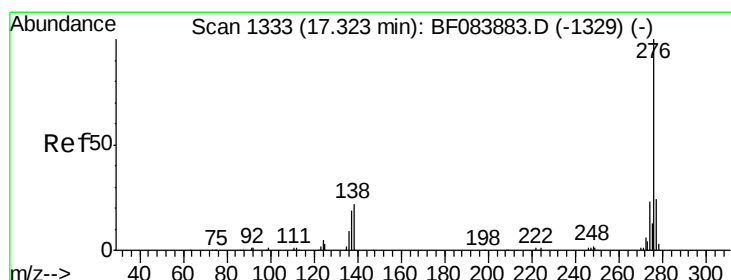
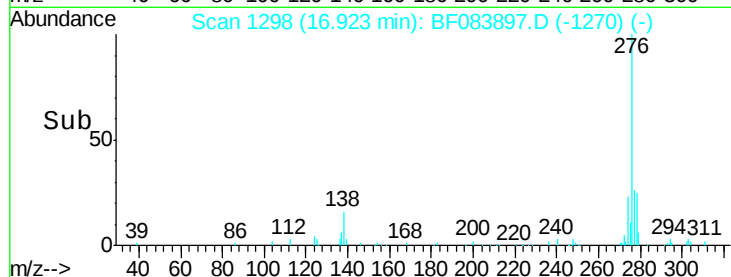
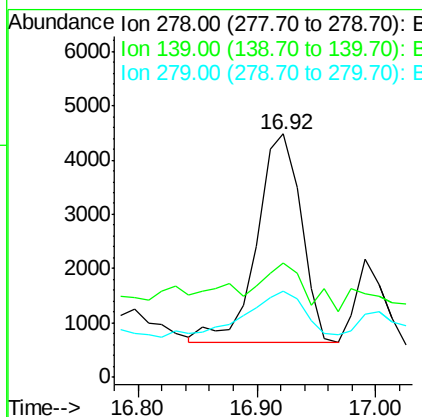
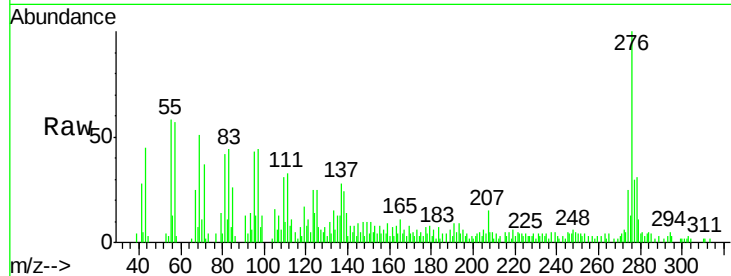
#90
Dibenzo(a,h)anthracene
Concen: 2.39 ng
RT: 16.92 min Scan# 1298
Delta R.T. 0.02 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Instrument :
BNA_F
ClientSampleId :
K202-(12-13)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	47.2	15.0	22.4#
279	35.3	18.9	28.3#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 7.35 ng
RT: 17.36 min Scan# 1336
Delta R.T. 0.03 min
Lab File: BF083897.D
Acq: 18 Dec 2015 5:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.9	18.8	28.2
138	24.8	17.8	26.6

