

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083425.D
 Acq On : 2 Dec 2015 18:45
 Operator : UM/IZ
 Sample : G4584-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)

Manual Integrations
 APPROVED

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 12/3/2015 7:09:41 PM

Quant Time: Dec 03 04:10:14 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	158560m	20.00	ng	0.00
21) Naphthalene-d8	7.84	136	599193	20.00	ng	0.00
38) Acenaphthene-d10	9.57	164	307883	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	542951	20.00	ng	-0.01
75) Chrysene-d12	14.73	240	401174	20.00	ng	-0.03
86) Perylene-d12	16.80	264	346767	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	1519750	143.82	ng	0.01
7) Phenol-d6	6.21	99	1861652	128.72	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1352415	99.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	349405	113.05	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1839940	85.16	ng	-0.01
78) Terphenyl-d14	13.21	244	1775788	105.56	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.87	128	7774785	239.14	ng	# 93
37) 2-Methylnaphthalene	8.54	142	1448941	66.69	ng	97
45) 1,1'-Biphenyl	9.00	154	613483	22.72	ng	95
48) Acenaphthylene	9.44	152	202882	6.18	ng	96
49) Dimethylphthalate	9.31	163	184508	7.37	ng	98
51) Acenaphthene	9.61	154	1861588	96.44	ng	98
54) Dibenzofuran	9.78	168	157807	5.58	ng	# 91
57) Fluorene	10.12	166	866602m	38.80	ng	
70) Phenanthrene	11.15	178	4032084	125.49	ng	94
71) Anthracene	11.21	178	1511806	46.74	ng	100
74) Fluoranthene	12.65	202	1977218	59.36	ng	99
77) Pyrene	12.97	202	2694740	96.18	ng	98
80) Benzo(a)anthracene	14.72	228	728166m	29.63	ng	
82) Chrysene	14.77	228	620876	26.15	ng	98
85) Indeno(1,2,3-cd)pyrene	18.17	276	279818m	16.18	ng	
87) Benzo(b)fluoranthene	16.28	252	508990m	22.88	ng	
88) Benzo(k)fluoranthene	16.32	252	131986m	6.28	ng	
89) Benzo(a)pyrene	16.72	252	564724	29.55	ng	# 96
90) Dibenz(a,h)anthracene	18.19	278	59734	3.59	ng	97
91) Benzo(a,h,i)perylene	18.53	276	331113	20.26	ng	97

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

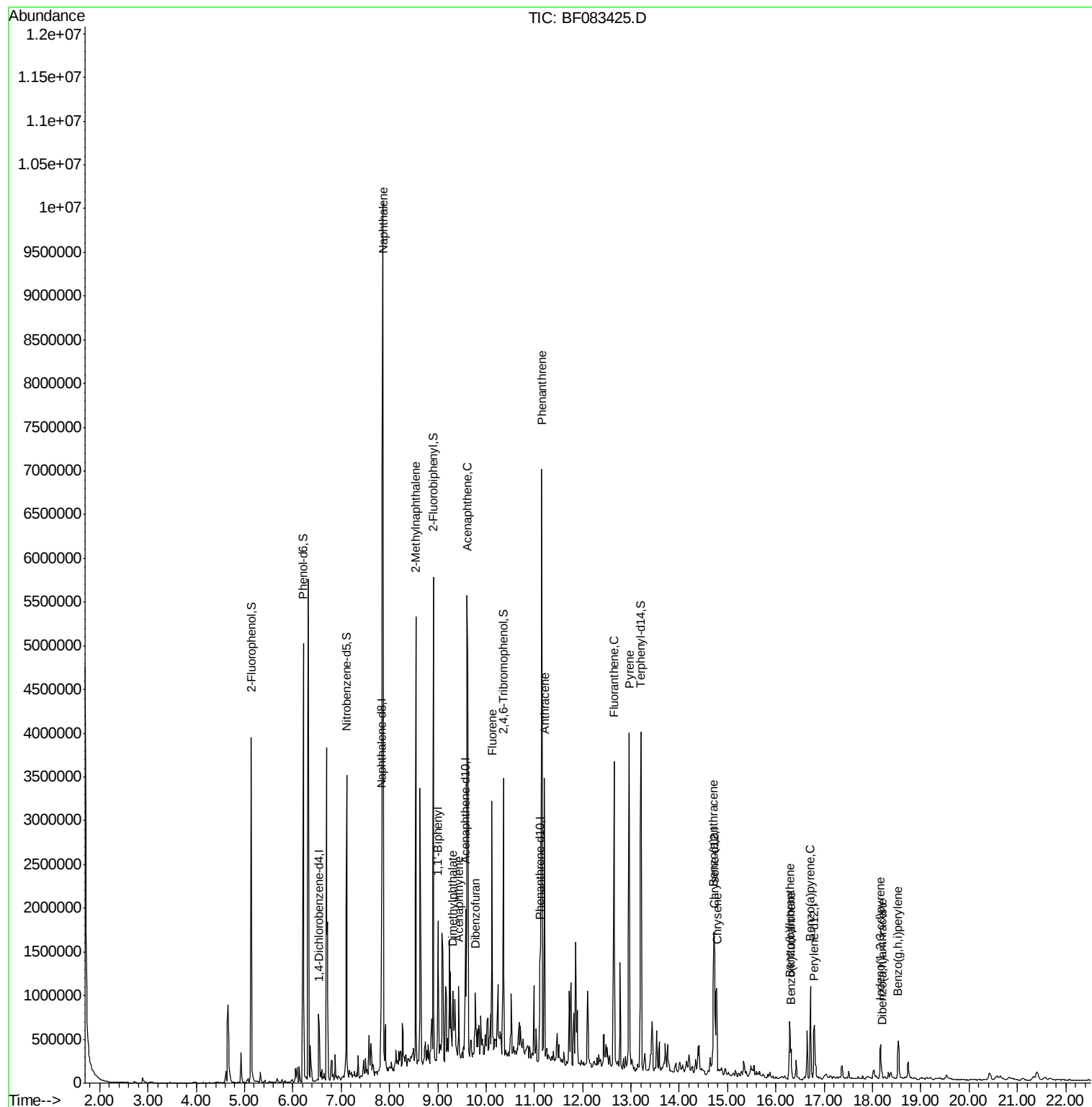
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
Data File : BF083425.D
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Sample : G4584-02
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ALS Vial : 14 Sample Multiplier: 1

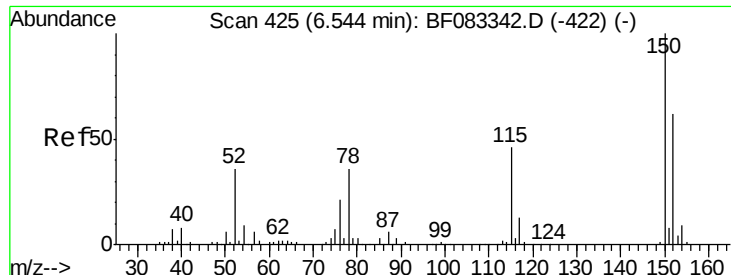
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Manual Integrations
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12/3/2015 7:09:41 PM

Quant Time: Dec 03 04:10:14 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

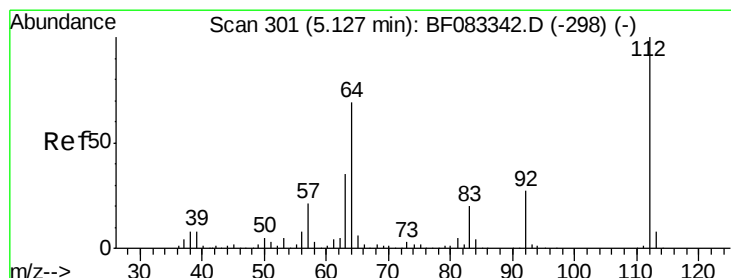
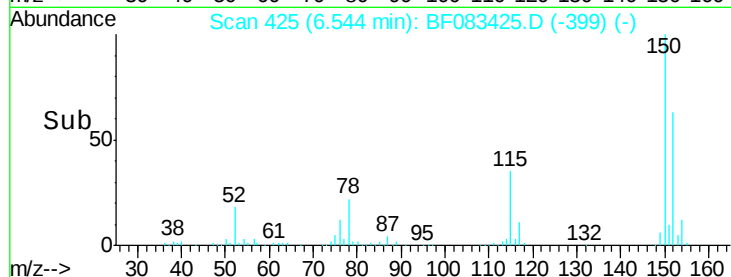
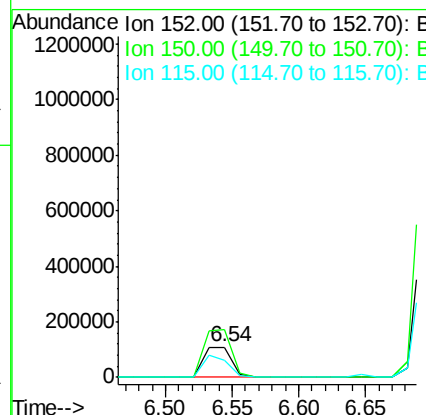
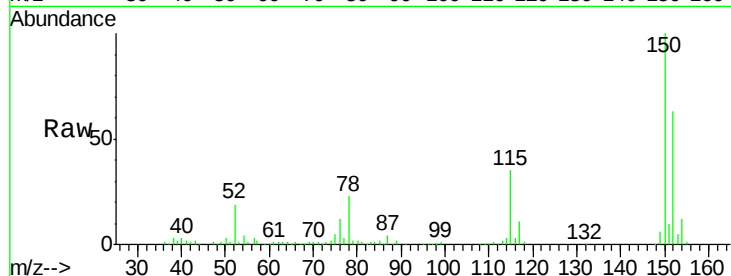
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.54 min Scan# 425
Delta R.T. -0.00 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	129.8	194.8
115	55.8	59.2	88.8

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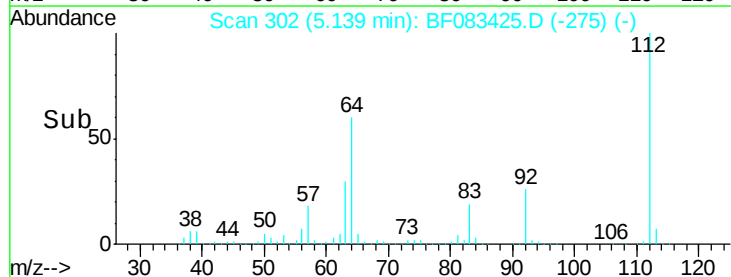
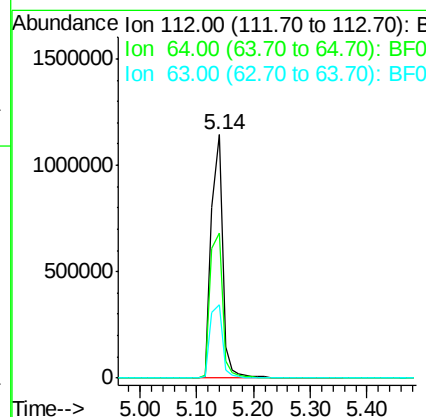
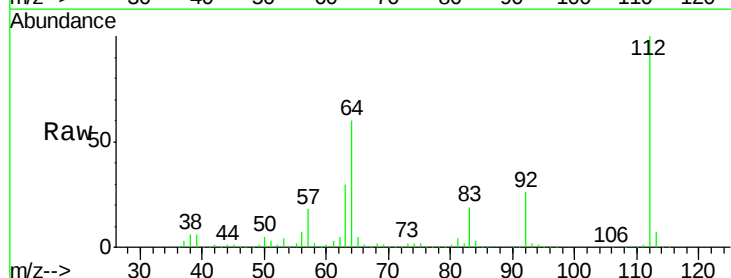
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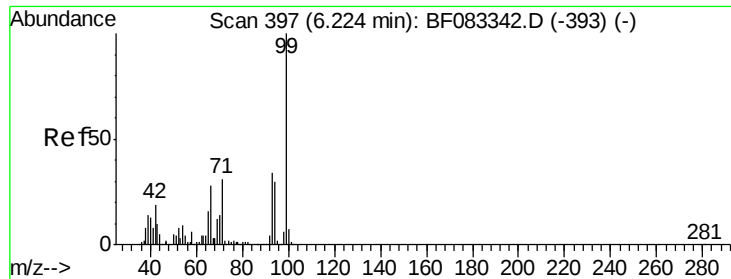


#5

2-Fluorophenol
Concen: 143.82 ng
RT: 5.14 min Scan# 302
Delta R.T. 0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.6	55.6	83.4
63	30.3	28.2	42.2





#7

Phenol-d6

Concen: 128.72 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)

Tot Ion: 99 Resp: 1861652

Ion Ratio Lower Upper

99 100

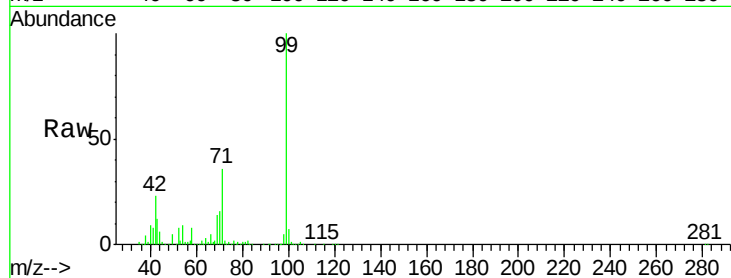
42 22.6 14.9 22.3#

71 35.8 24.7 37.1

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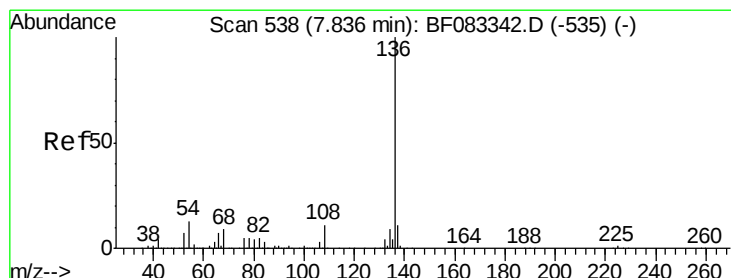
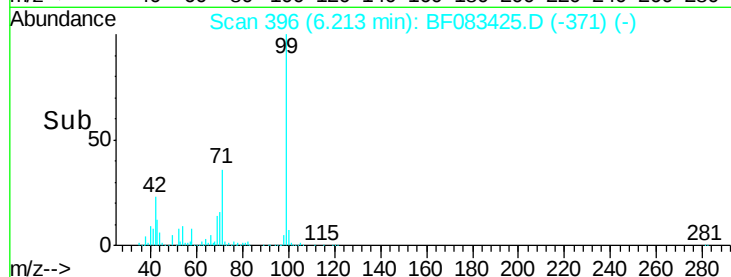
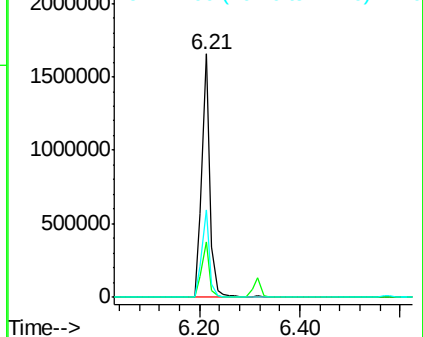
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

Tgt Ion: 136 Resp: 599193

Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 10.7 10.1 15.1

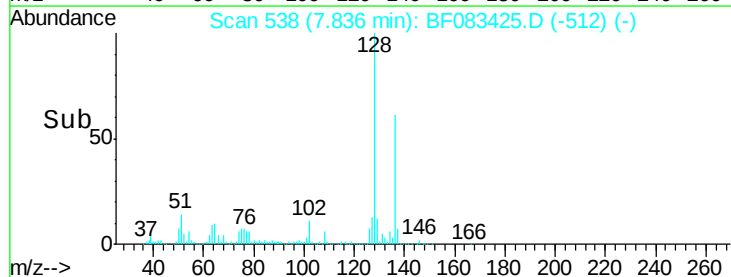
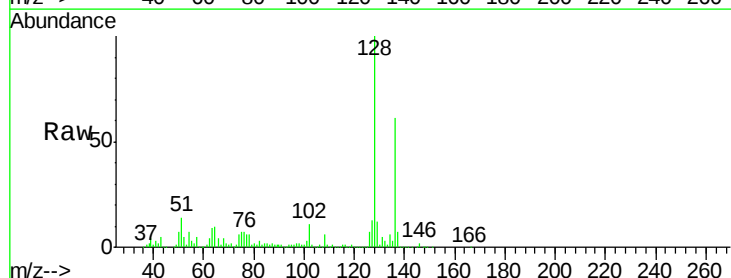
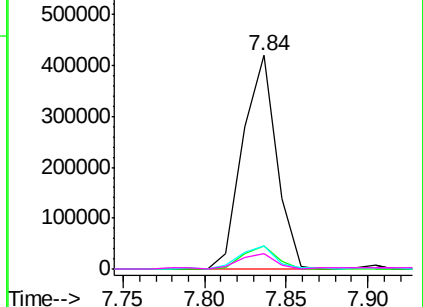
68 7.2 7.1 10.7

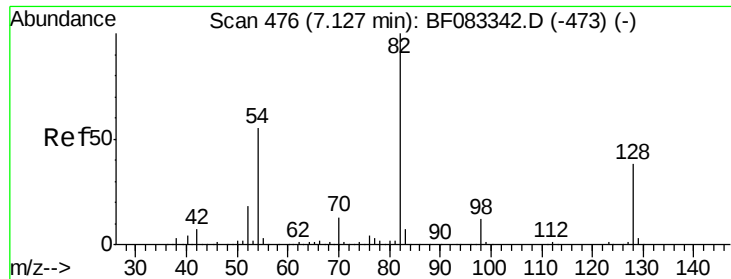
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 99.22 ng

RT: 7.12 min Scan# 475

Delta R.T. -0.01 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)

Tot Ion: 82 Resp: 1352415

Ion Ratio Lower Upper

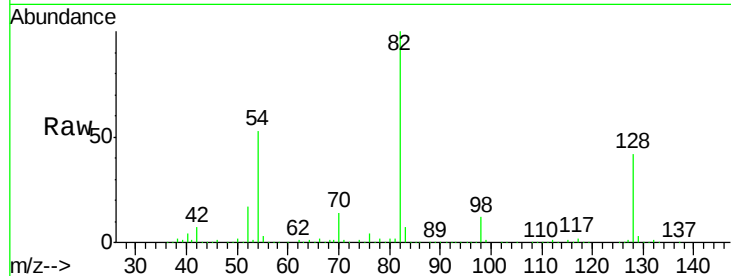
82 100

128 41.7 30.6 46.0

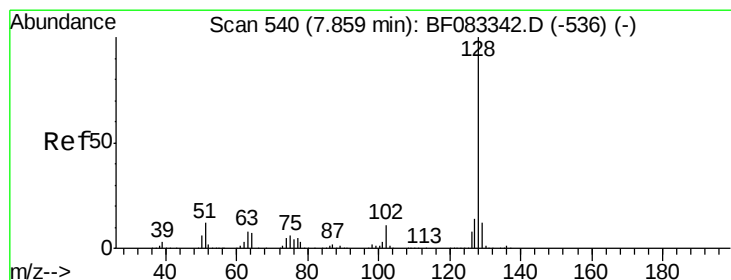
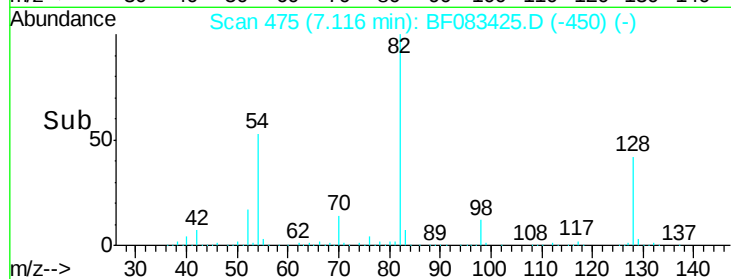
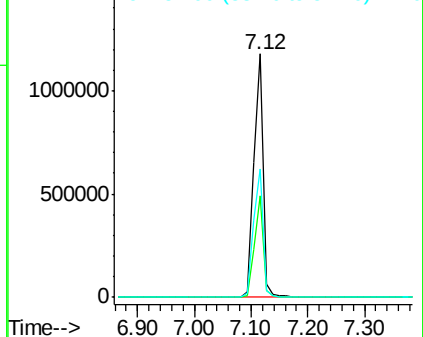
54 52.9 43.8 65.6

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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



#31

Naphthalene

Concen: 239.14 ng

RT: 7.87 min Scan# 541

Delta R.T. 0.01 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

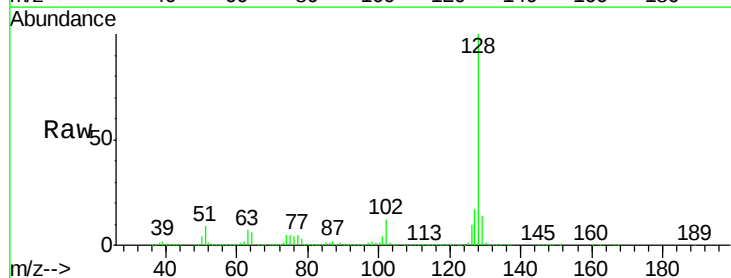
Tgt Ion:128 Resp: 7774785

Ion Ratio Lower Upper

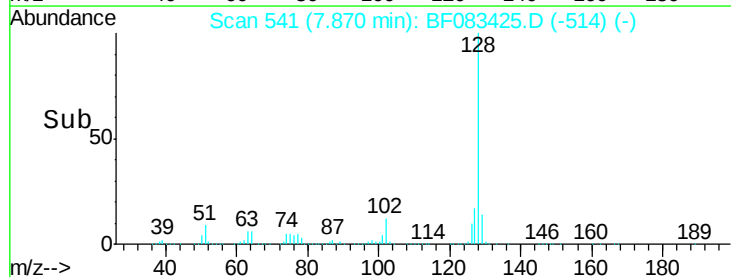
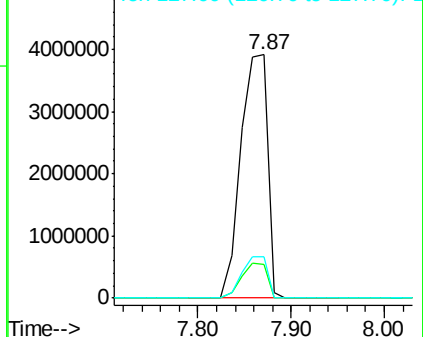
128 100

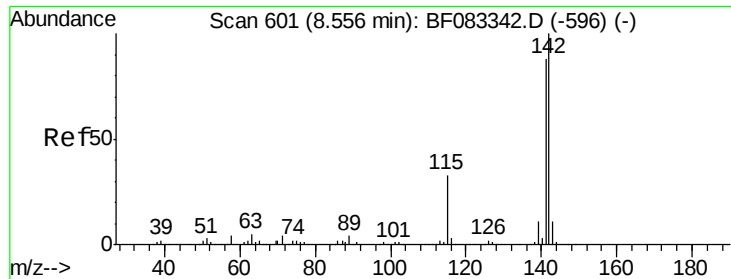
129 13.9 9.7 14.5

127 17.0 11.0 16.4#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





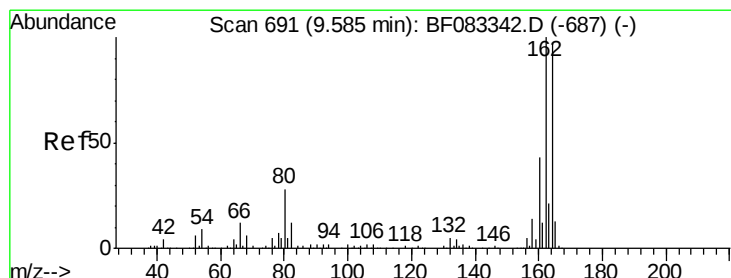
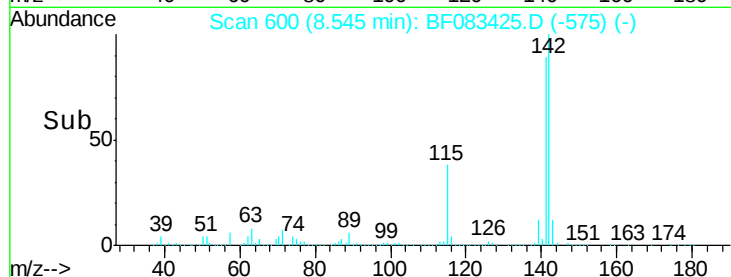
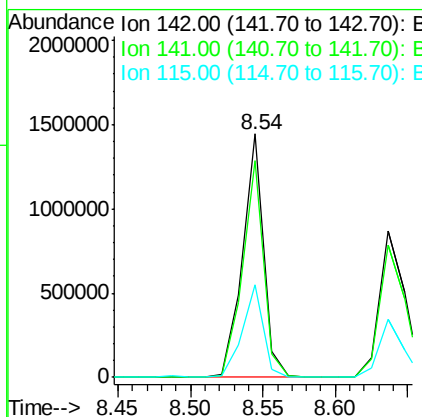
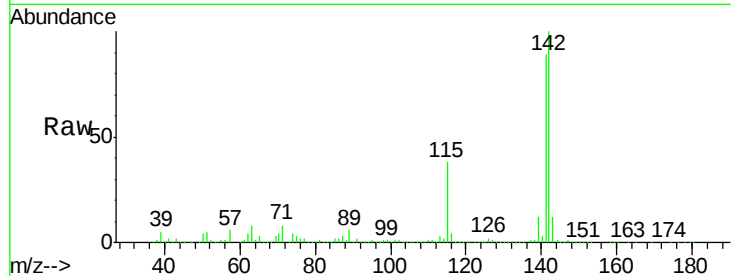
#37
2-Methylnaphthalene
Concen: 66.69 ng
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.6	105.8
115	38.1	26.2	39.2

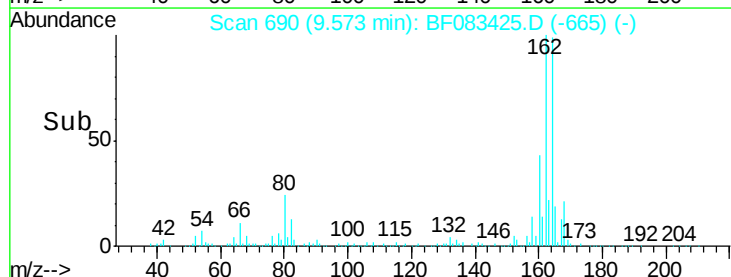
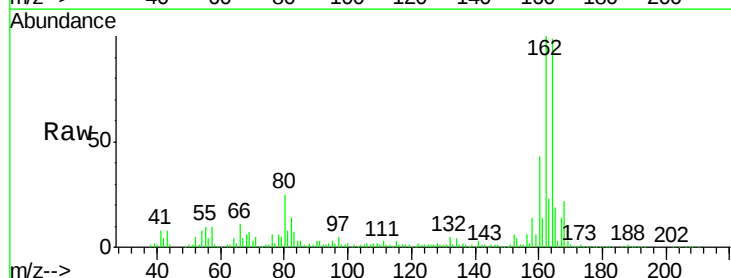
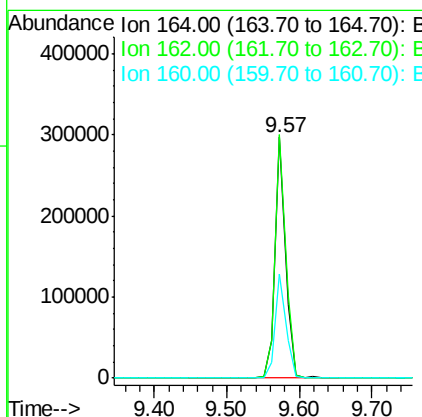
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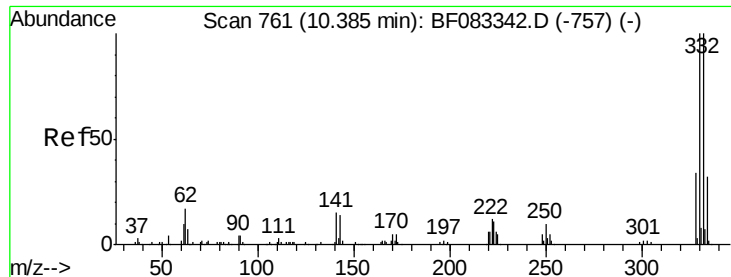
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.6	123.8
160	43.2	35.3	52.9





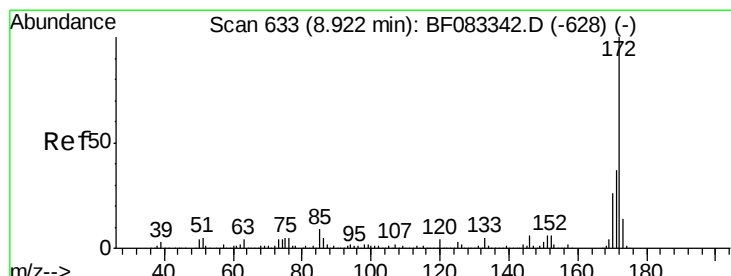
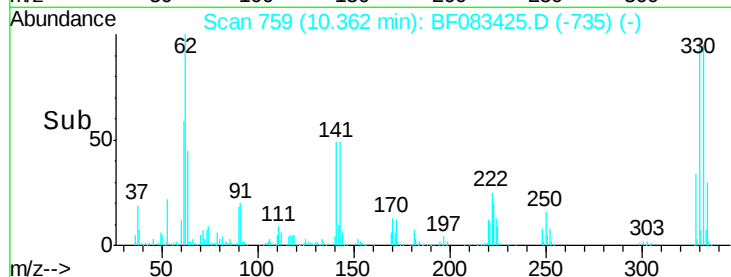
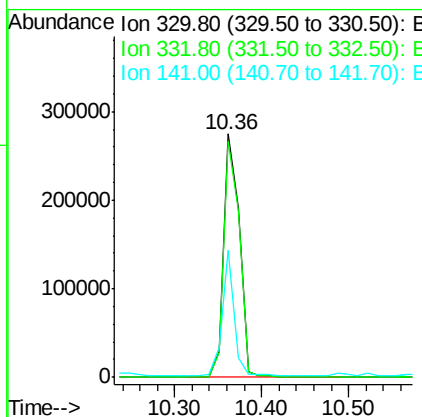
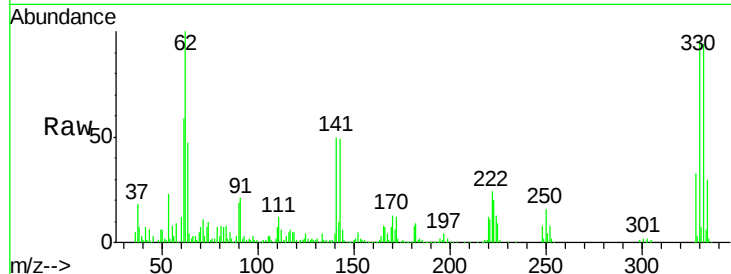
#41
 2,4,6-Tribromophenol
 Concen: 113.05 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	349405		
332	97.2	77.8	116.6	
141	39.6	29.4	44.0	

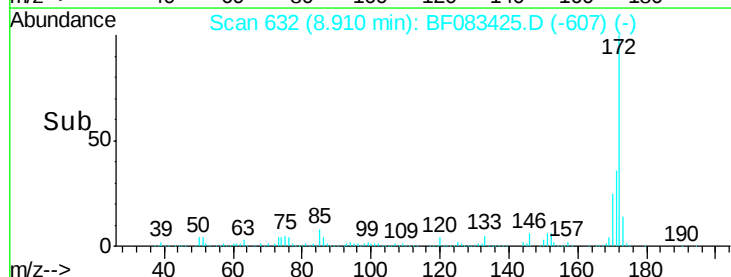
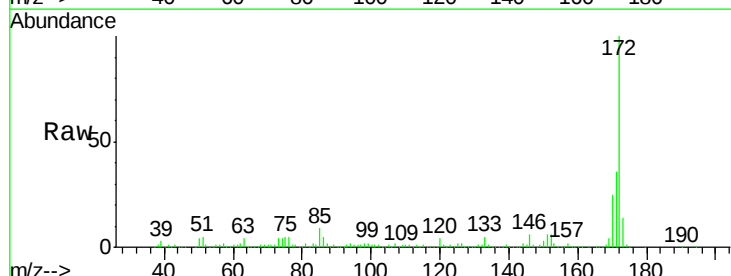
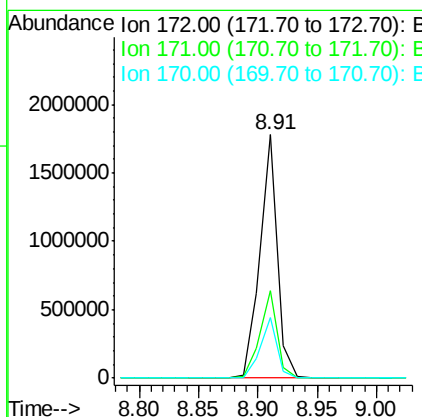
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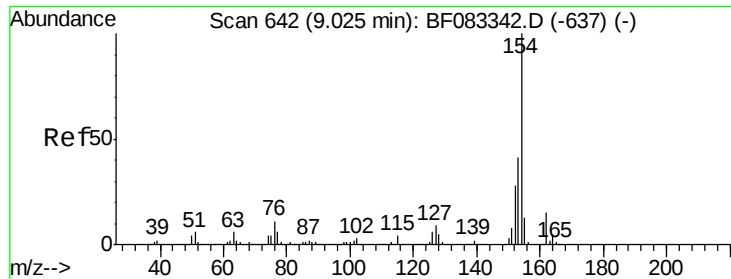
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#44
 2-Fluorobiphenyl
 Concen: 85.16 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1839940		
171	36.1	29.4	44.0	
170	24.7	20.4	30.6	





#45

1,1'-Biphenyl

Concen: 22.72 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

Instrument :

BNA_F

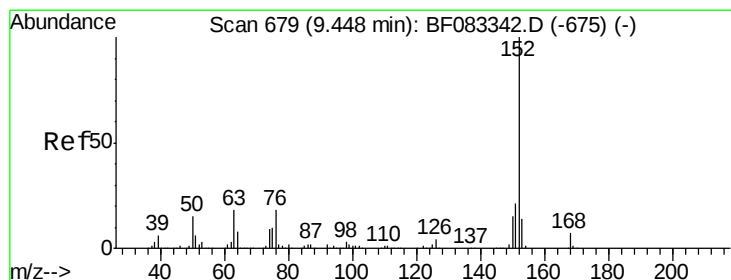
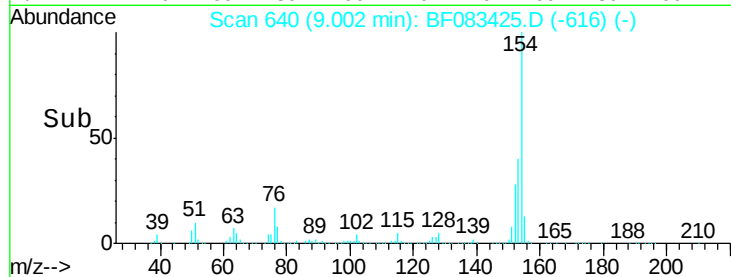
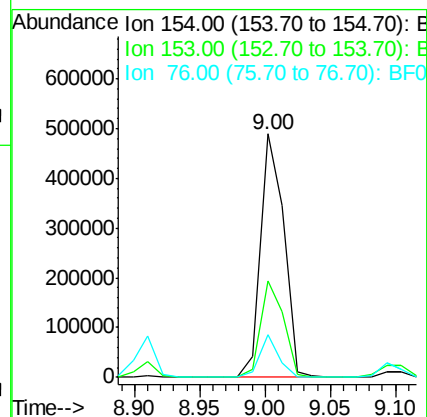
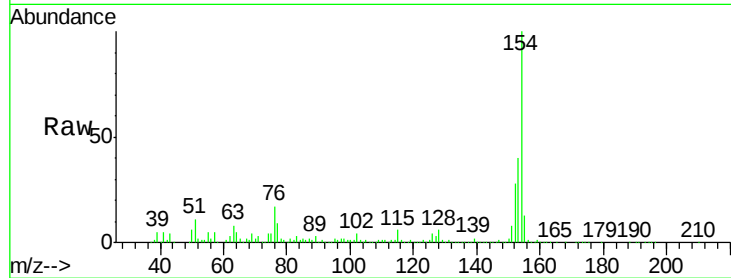
ClientSampleId :

SB-P3WC-10(6-11)

Tot Ion:	154	Resp:	613483
Ion Ratio	Lower	Upper	
154	100		
153	39.8	20.6	60.6
76	17.3	0.0	30.5

Manual Integrations
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#48

Acenaphthylene

Concen: 6.18 ng

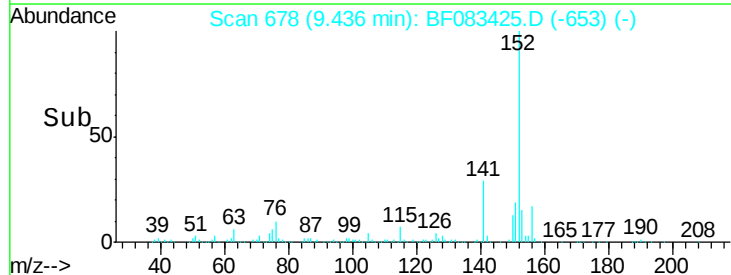
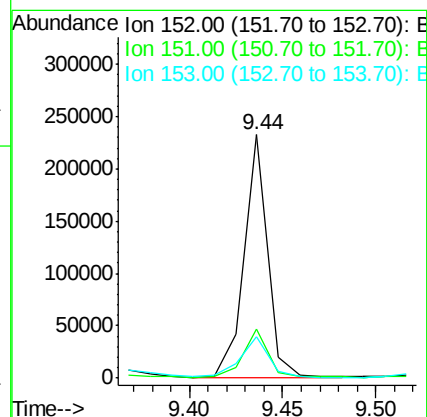
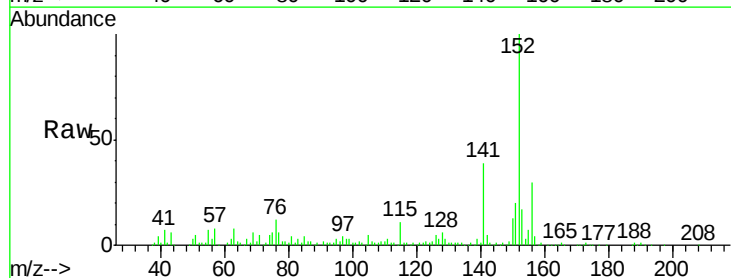
RT: 9.44 min Scan# 678

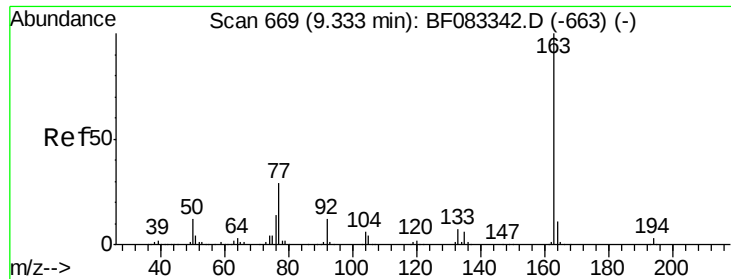
Delta R.T. -0.01 min

Lab File: BF083425.D

Acq: 2 Dec 2015 18:45

Tgt Ion:	152	Resp:	202882
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.7	25.1
153	16.8	11.2	16.8





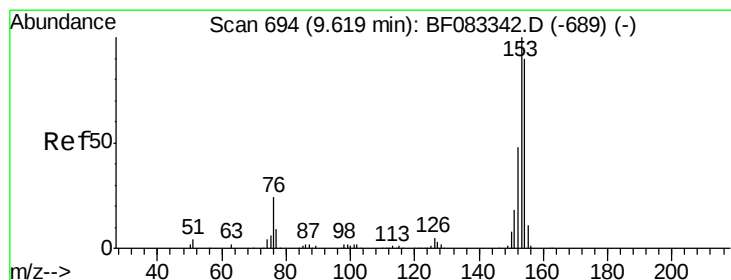
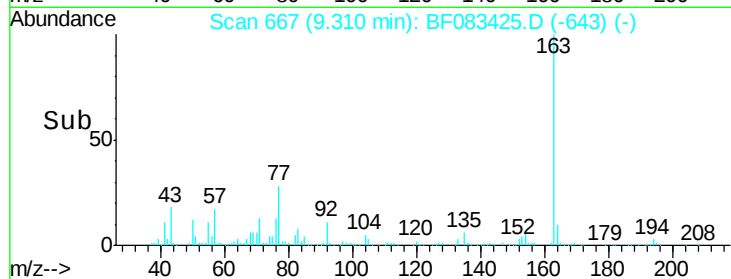
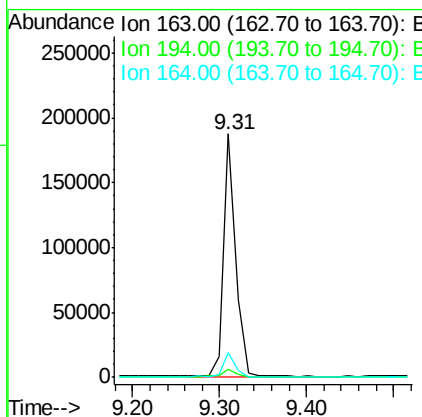
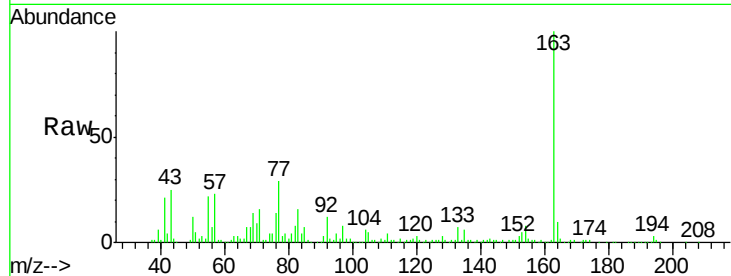
#49
Dimethylphthalate
Concen: 7.37 ng
RT: 9.31 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		184508		
194	3.2	2.7	4.1		
164	10.2	8.8	13.2		

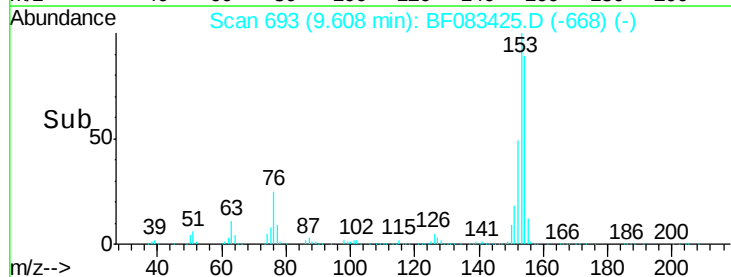
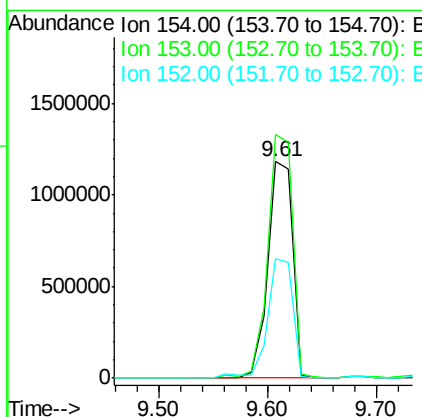
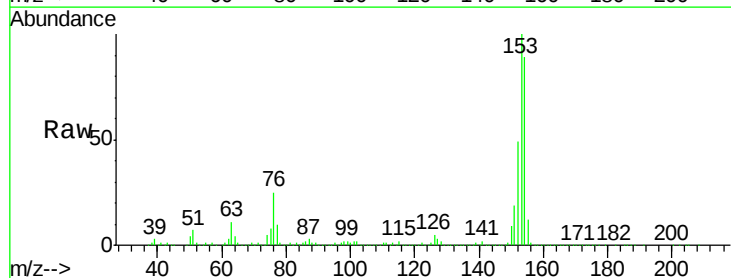
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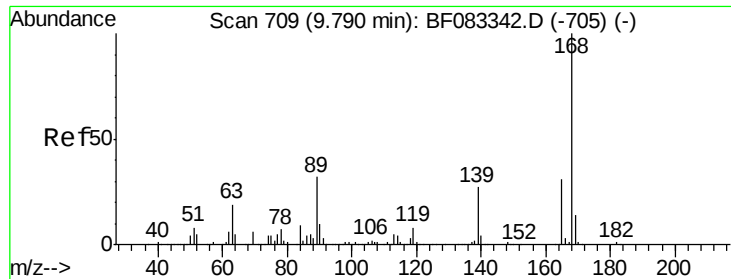
Mmdadoda
12/3/2015 7:09:41 PM



#51
Acenaphthene
Concen: 96.44 ng
RT: 9.61 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100		1861588		
153	112.6	89.3	133.9		
152	55.2	42.5	63.7		





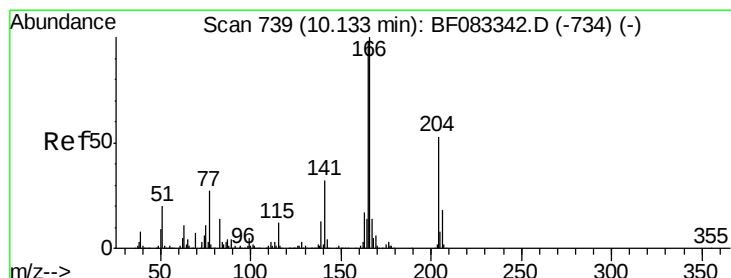
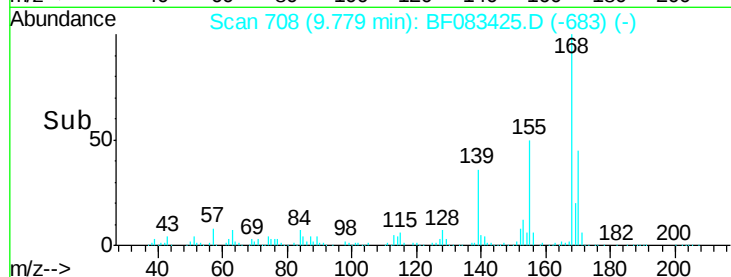
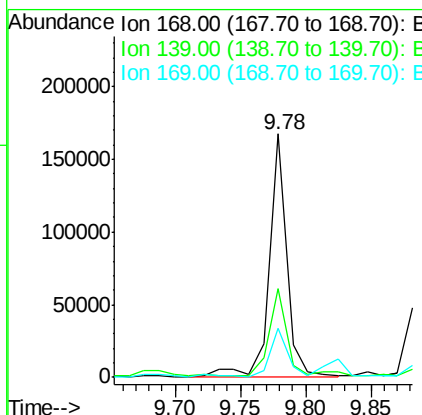
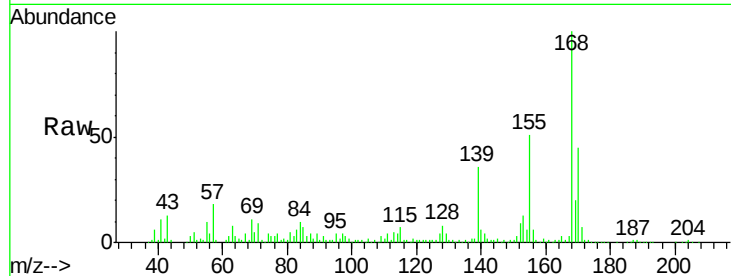
#54
Dibenzofuran
Concen: 5.58 ng
RT: 9.78 min Scan# 708
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.3	32.7	49.1
169	20.1	11.1	16.7

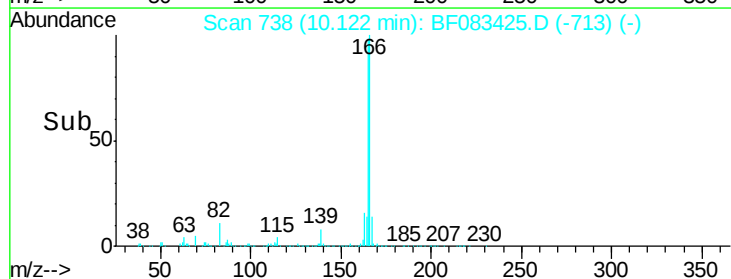
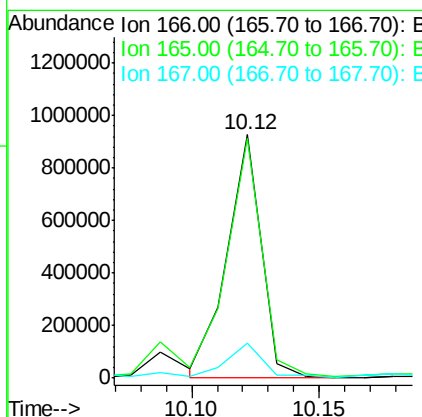
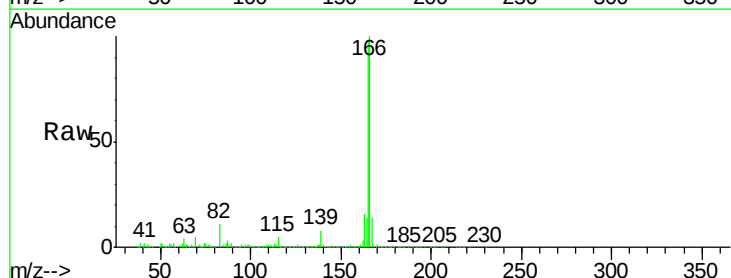
Manual Integrations
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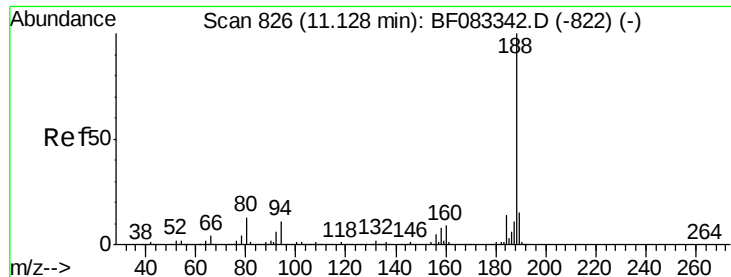
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#57
Fluorene
Concen: 38.80 ng m
RT: 10.12 min Scan# 738
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.3	117.5
167	14.2	11.1	16.7





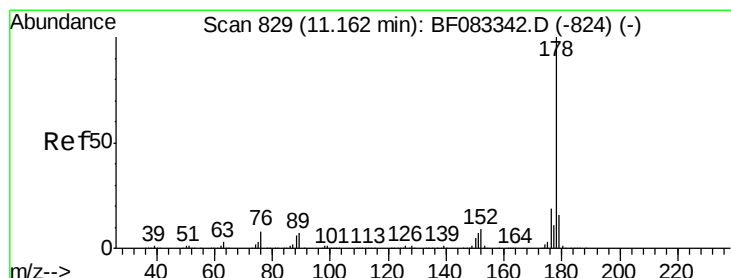
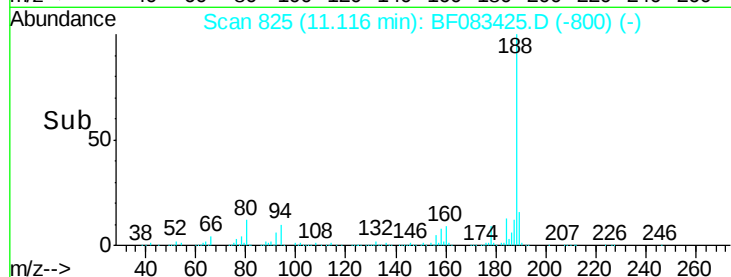
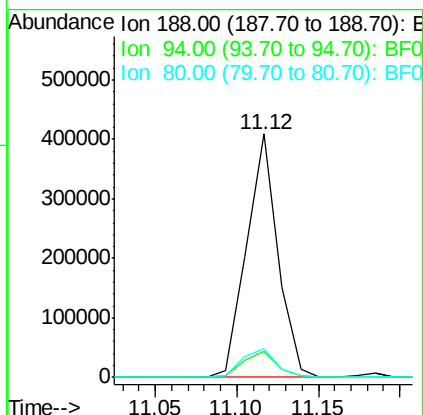
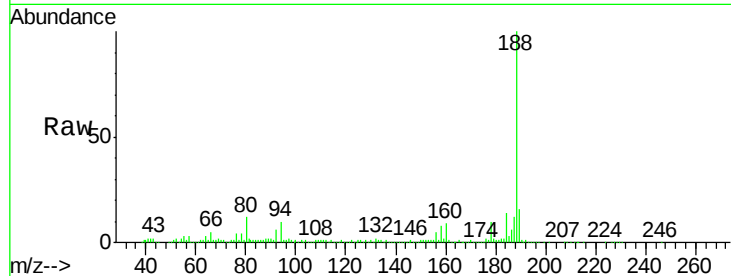
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	542951		
94	10.5		8.7	13.1
80	11.8		10.3	15.5

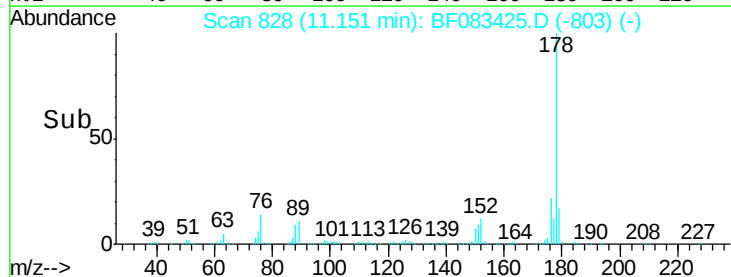
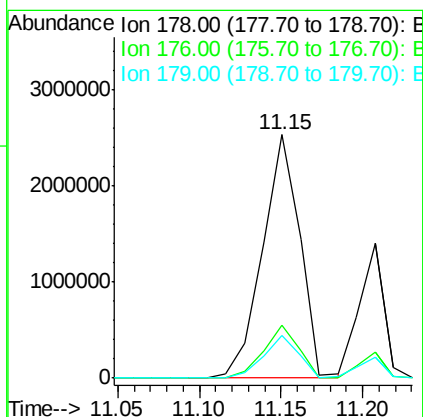
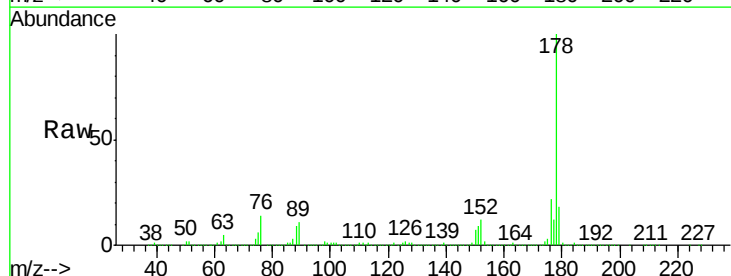
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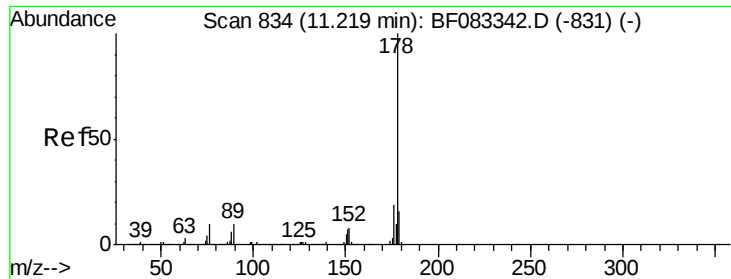
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#70
Phenanthrene
Concen: 125.49 ng
RT: 11.15 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4032084		
176	21.9		15.3	22.9
179	17.6		12.4	18.6





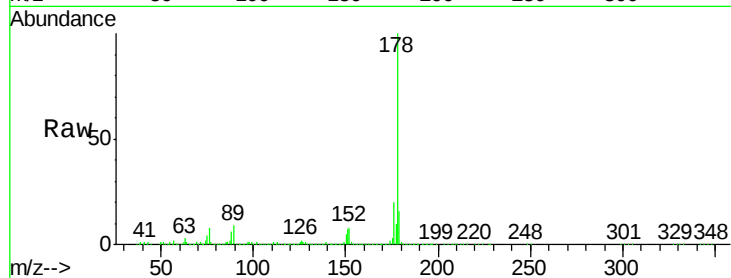
#71
 Anthracene
 Concen: 46.74 ng
 RT: 11.21 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)

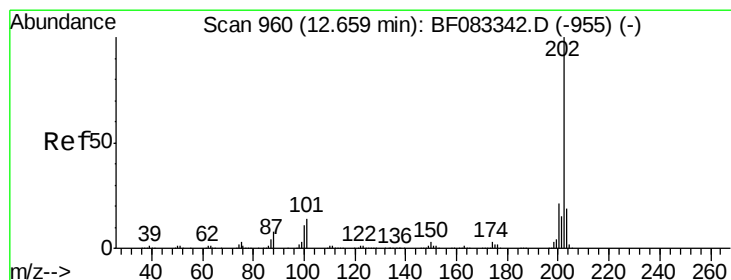
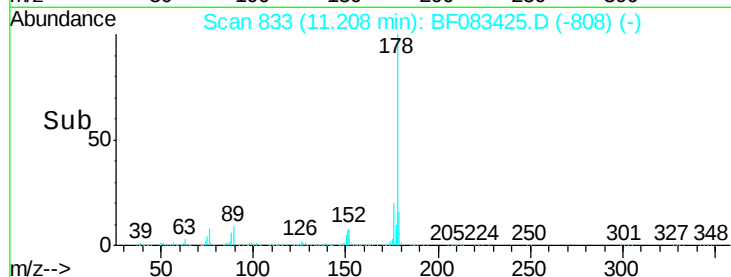
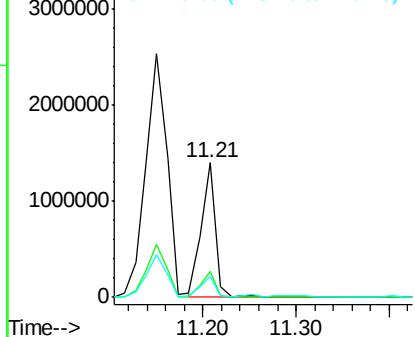
Tot Ion:178 Resp: 1511806
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.6 23.4
 179 16.0 12.8 19.2

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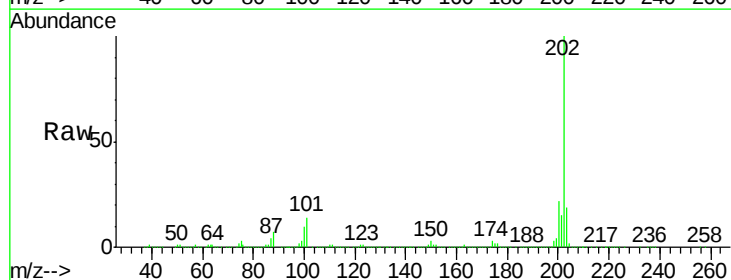


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

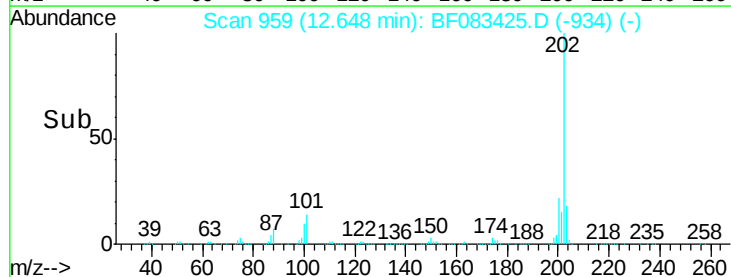
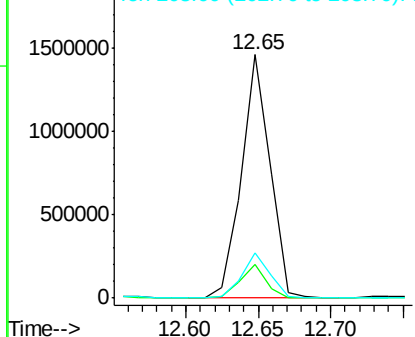


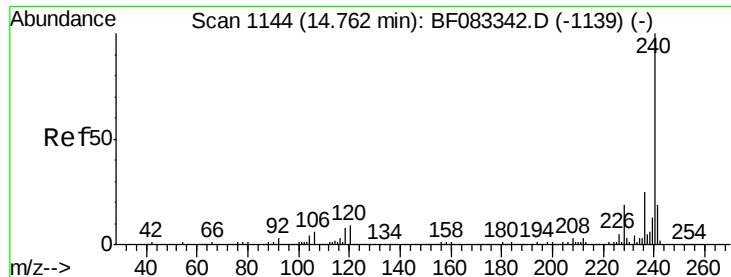
#74
 Fluoranthene
 Concen: 59.36 ng
 RT: 12.65 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Tgt Ion:202 Resp: 1977218
 Ion Ratio Lower Upper
 202 100
 101 13.8 0.0 34.5
 203 18.6 0.0 38.7



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





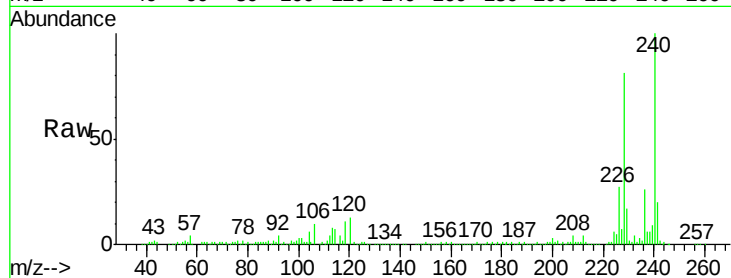
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.73 min Scan# 1141
Delta R.T. -0.03 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

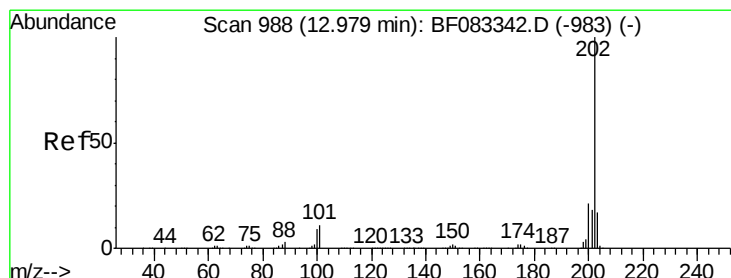
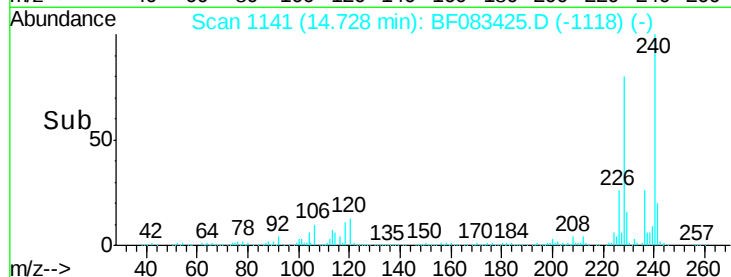
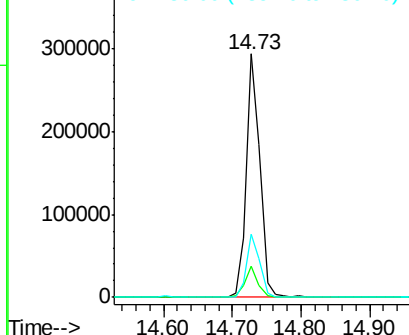
Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.7	6.9	10.3	
236	26.1	19.8	29.6	

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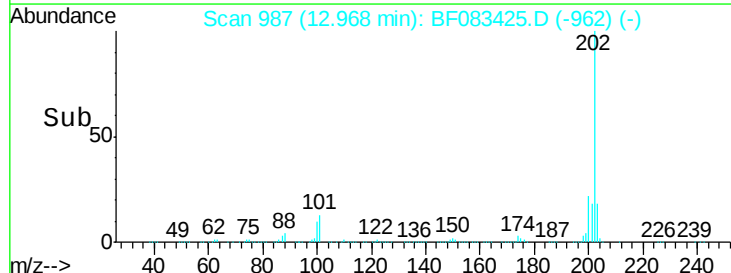
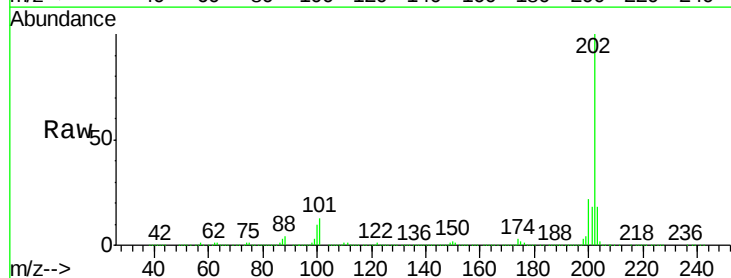
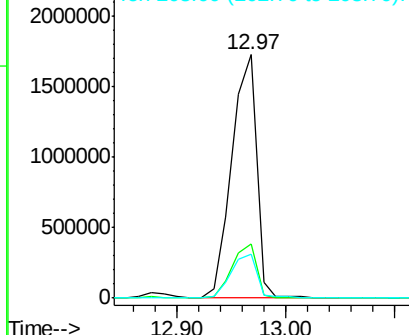
Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

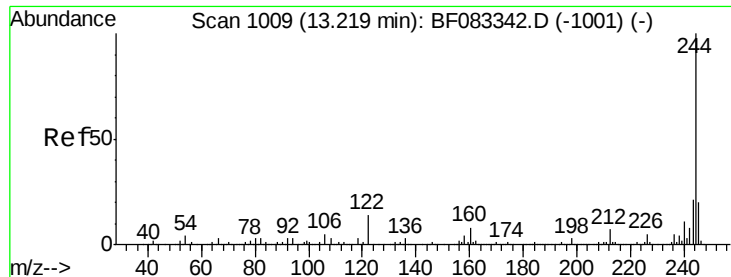


#77
Pyrene
Concen: 96.18 ng
RT: 12.97 min Scan# 987
Delta R.T. -0.01 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.1	16.9	25.3	
203	18.1	13.9	20.9	

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





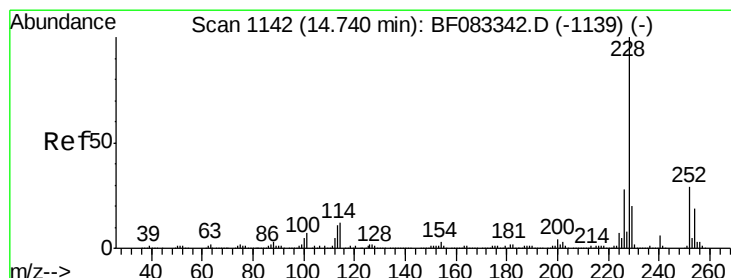
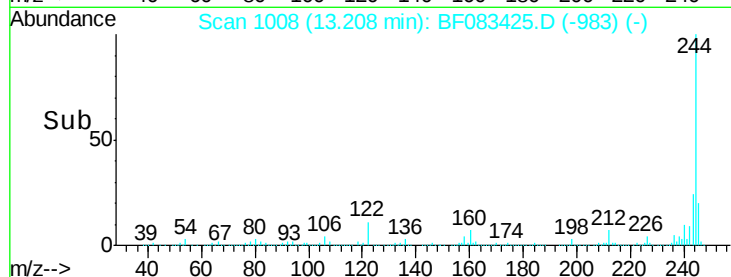
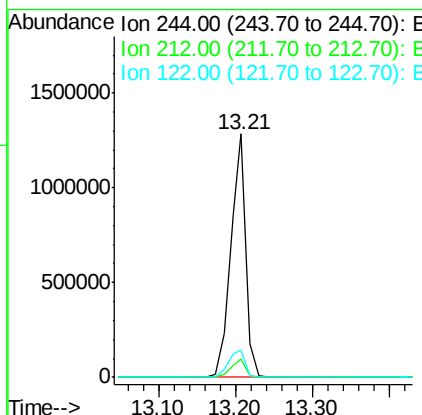
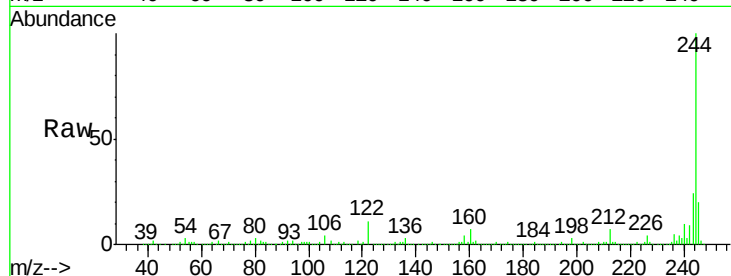
#78
 Terphenyl-d14
 Concen: 105.56 ng
 RT: 13.21 min Scan# 1008
 Delta R.T. -0.01 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)

Tot Ion:244 Resp: 1775788
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.8
 122 11.3 11.0 16.4

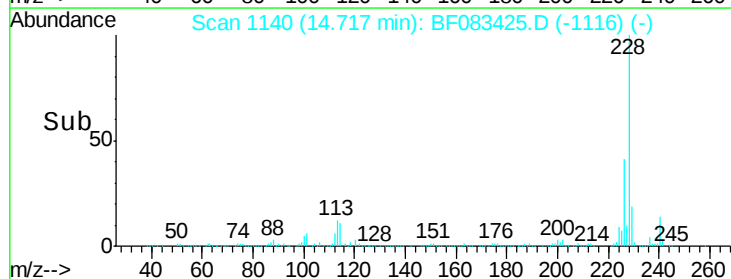
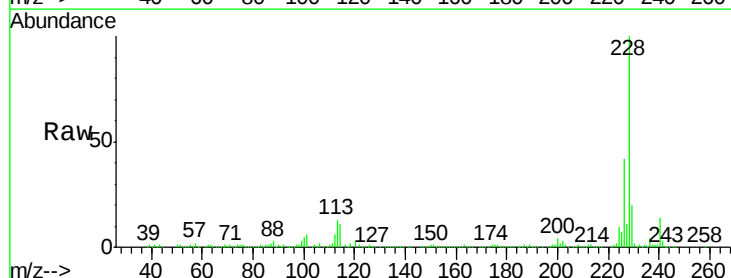
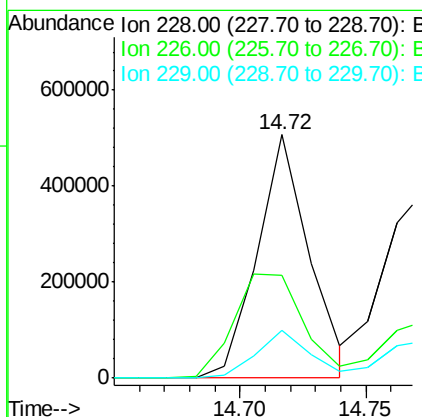
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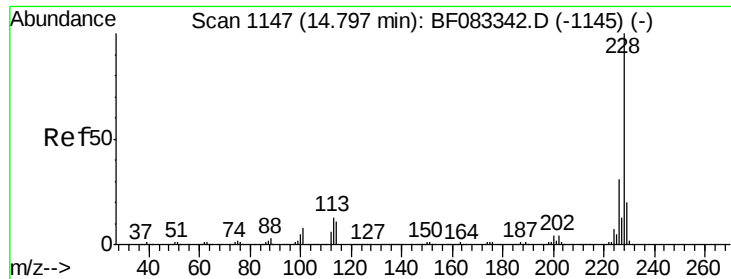
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#80
 Benzo(a)anthracene
 Concen: 29.63 ng m
 RT: 14.72 min Scan# 1140
 Delta R.T. -0.02 min
 Lab File: BF083425.D
 Acq: 2 Dec 2015 18:45

Tgt Ion:228 Resp: 728166
 Ion Ratio Lower Upper
 228 100
 226 42.0 22.2 33.4#
 229 19.5 16.1 24.1





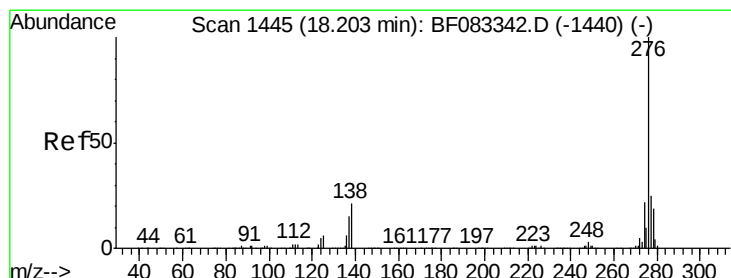
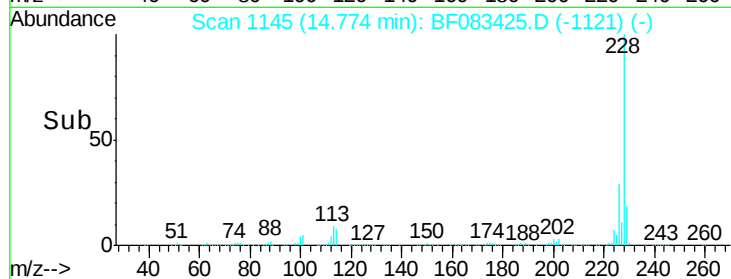
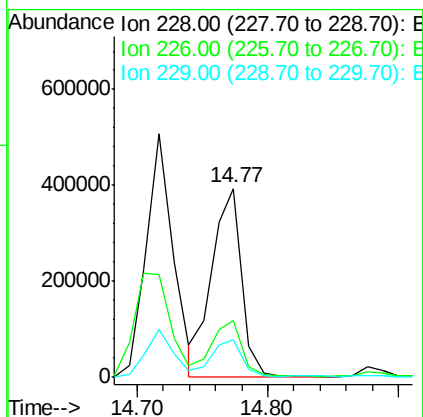
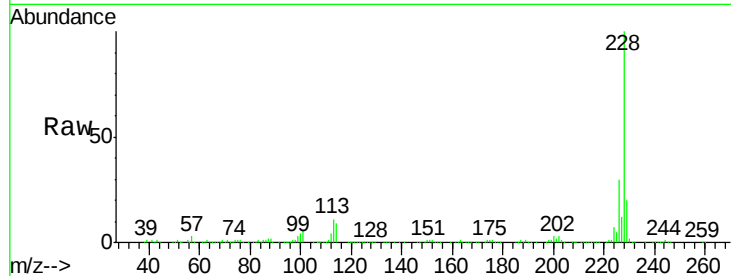
#82
Chrysene
Concen: 26.15 ng
RT: 14.77 min Scan# 1145
Delta R.T. -0.02 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Resp	Lower	Upper
228	100	620876		
226	29.7		24.6	37.0
229	19.7		16.2	24.2

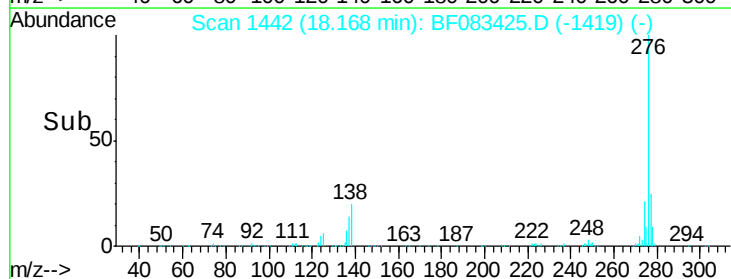
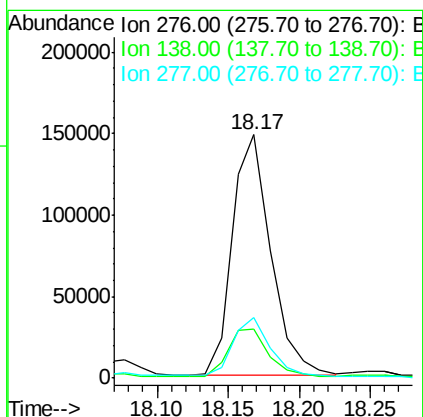
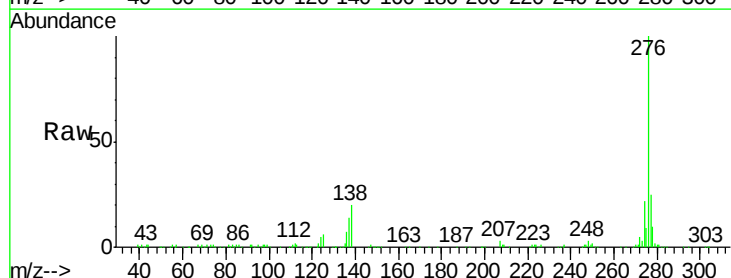
Manual Integrations
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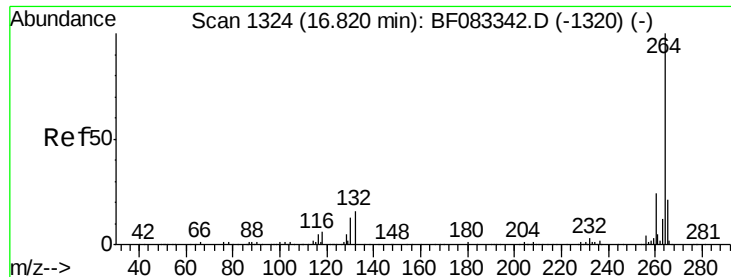
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#85
Indeno(1,2,3-cd)pyrene
Concen: 16.18 ng m
RT: 18.17 min Scan# 1442
Delta R.T. -0.03 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	279818		
138	6.1		21.2	31.8#
277	6.8		20.0	30.0#





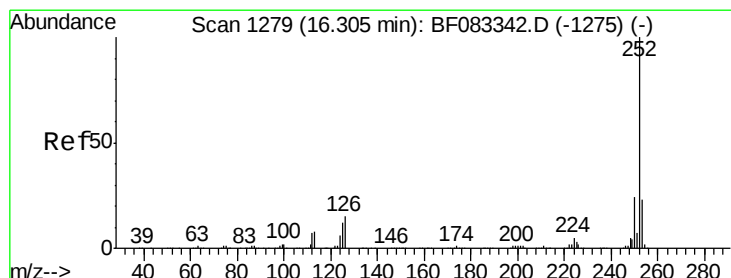
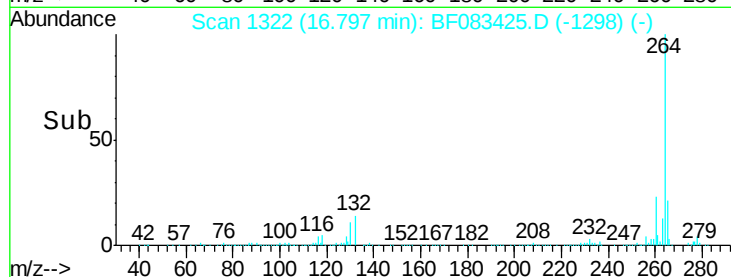
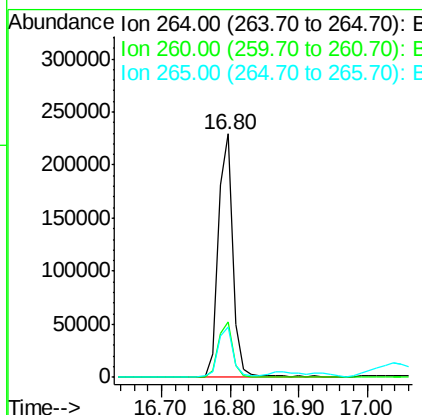
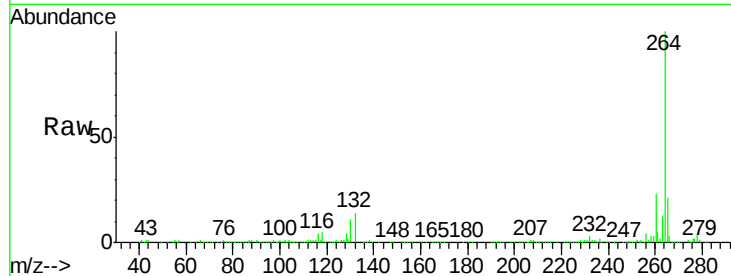
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.0	28.4
265	20.6	16.8	25.2

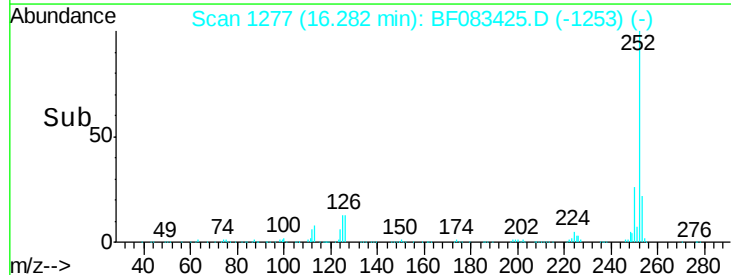
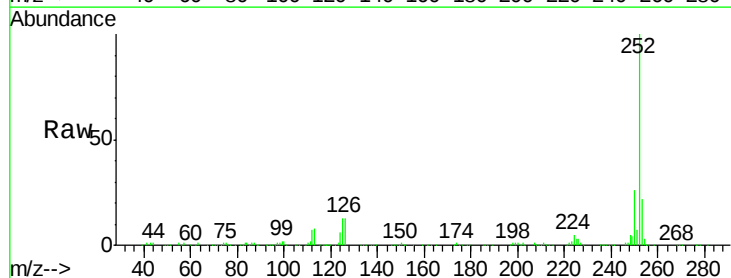
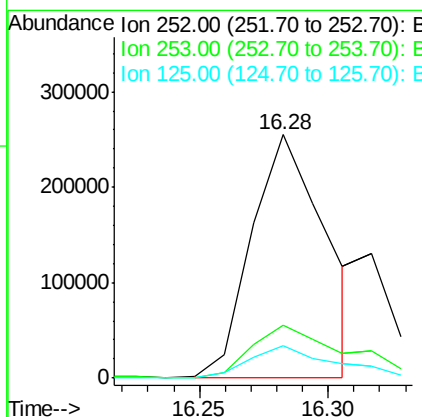
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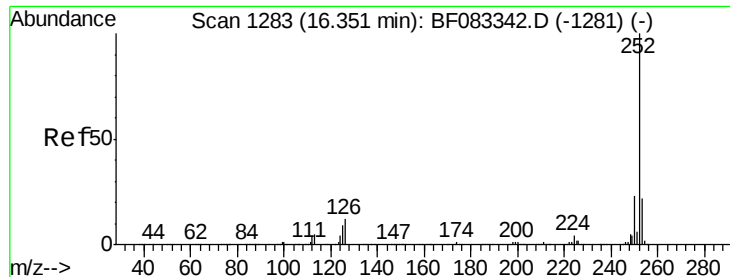
Mmdadoda
12/3/2015 7:09:41 PM



#87
Benzo(b)fluoranthene
Concen: 22.88 ng m
RT: 16.28 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.4	27.6
125	13.3	9.6	14.4





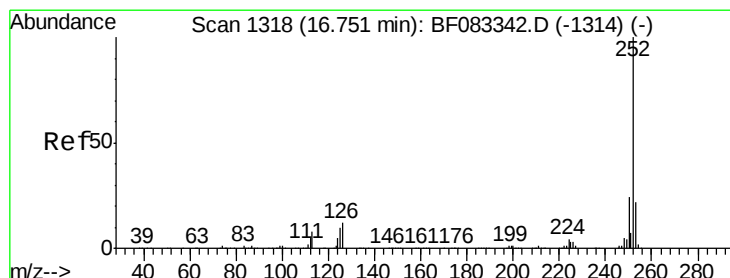
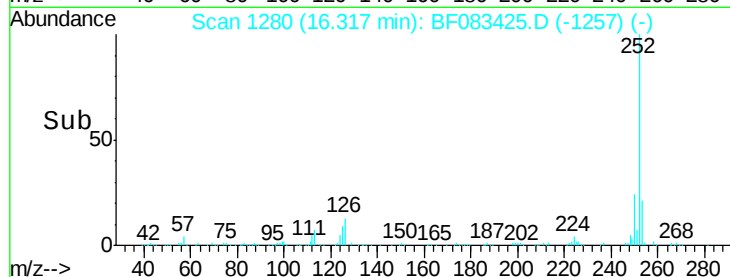
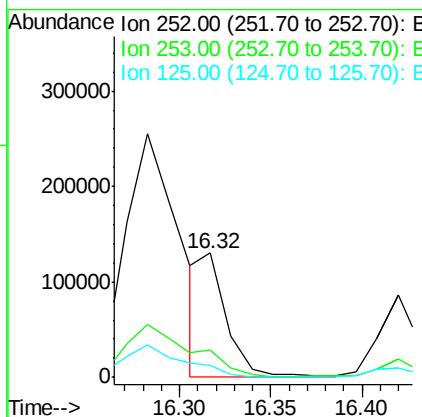
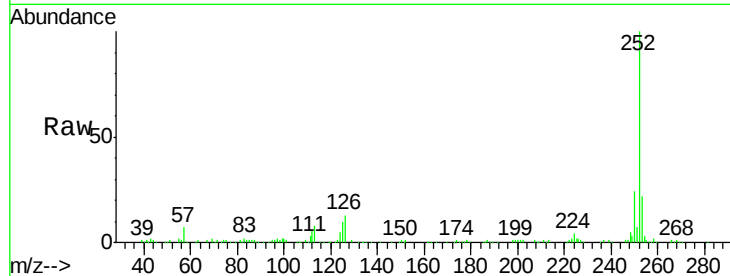
#88
Benzo(k)fluoranthene
Concen: 6.28 ng m
RT: 16.32 min Scan# 1280
Delta R.T. -0.03 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	9.9	7.5	11.3

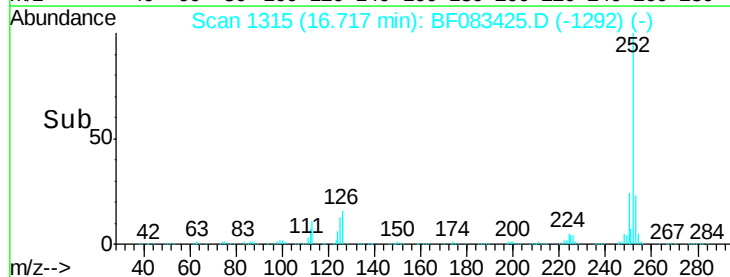
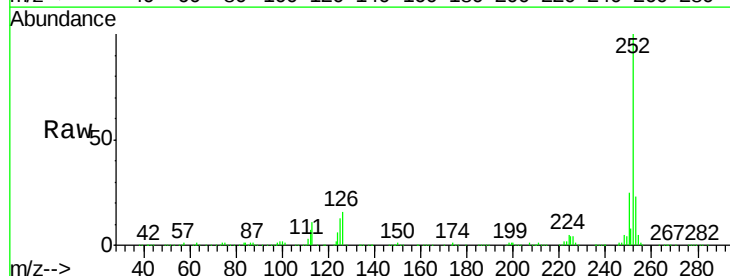
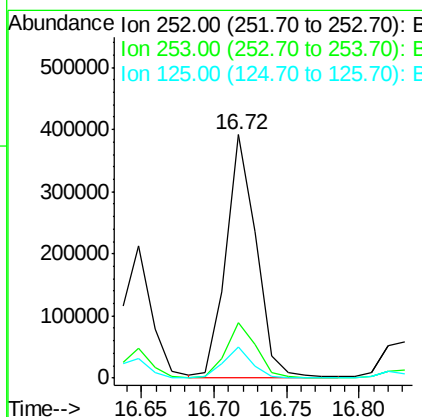
Manual Integrations
APPROVED

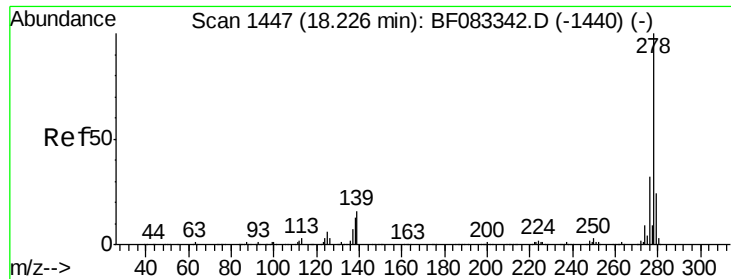
Mmdadoda
12/3/2015 7:09:41 PM



#89
Benzo(a)pyrene
Concen: 29.55 ng
RT: 16.72 min Scan# 1315
Delta R.T. -0.03 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	12.8	7.8	11.8#





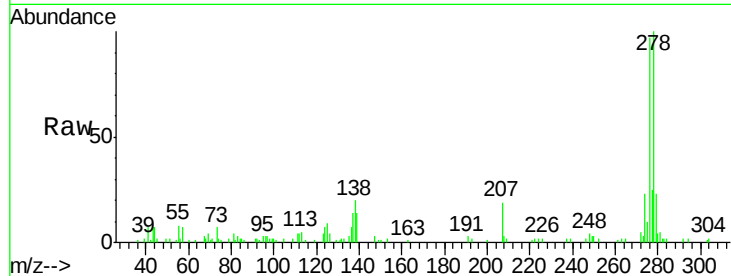
#90
Dibenzo(a,h)anthracene
Concen: 3.59 ng
RT: 18.19 min Scan# 1444
Delta R.T. -0.03 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)

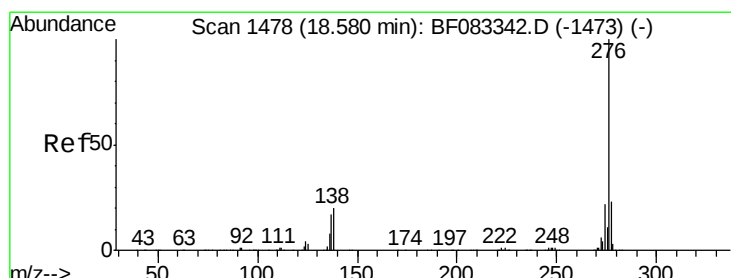
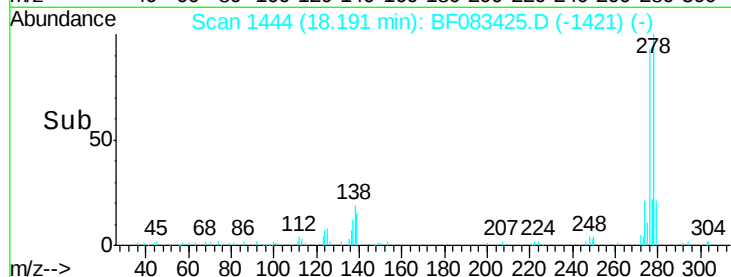
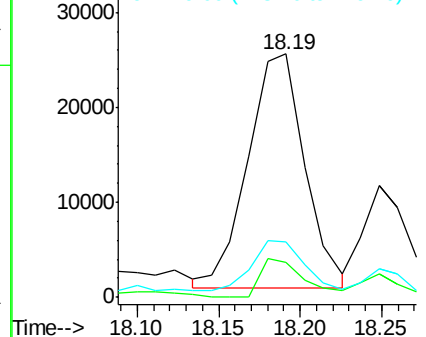
Tot Ion	Ratio	Lower	Upper
278	100		
139	14.3	13.1	19.7
279	23.0	19.2	28.8

Manual Integrations
APPROVED

Mmdadoda
12/3/2015 7:09:41 PM

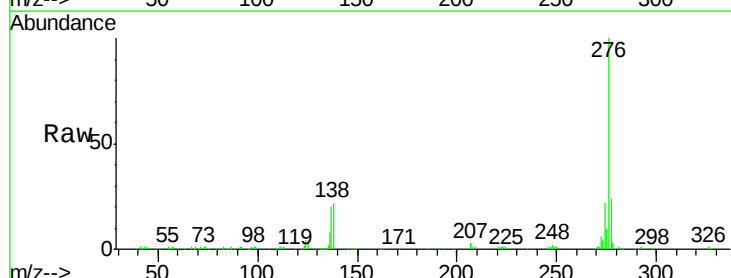


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 20.26 ng
RT: 18.53 min Scan# 1474
Delta R.T. -0.05 min
Lab File: BF083425.D
Acq: 2 Dec 2015 18:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	22.2	16.1	24.1



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

