

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
 Data File : BF089532.D
 Acq On : 2 Aug 2016 1:56
 Operator : UM/SJ
 Sample : H4288-02
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Manual Integrations
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Quant Time: Aug 02 12:40:38 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 02:21:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	37821	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	131735	20.00	ng	0.00
38) Acenaphthene-d10	9.51	164	54542	20.00	ng	-0.01
63) Phenanthrene-d10	10.99	188	90783	20.00	ng	0.01
75) Chrysene-d12	13.63	240	83989	20.00	ng	0.02
86) Perylene-d12	14.96	264	92845	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	239902	101.28	ng	0.01
7) Phenol-d6	6.15	99	308587	98.58	ng	0.00
23) Nitrobenzene-d5	7.05	82	177193	79.39	ng	-0.01
41) 2,4,6-Tribromophenol	10.30	330	40381	89.39	ng	-0.01
44) 2-Fluorobiphenyl	8.84	172	288035	77.50	ng	-0.01
78) Terphenyl-d14	12.57	244	234365	65.31	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.78	128	126604	19.41	ng	99
37) 2-Methylnaphthalene	8.48	142	74507	18.95	ng	99
45) 1,1'-Biphenyl	8.95	154	38800	8.35	ng	95
48) Acenaphthylene	9.37	152	12900	2.35	ng	# 79
49) Dimethylphthalate	9.24	163	55999	13.49	ng	99
51) Acenaphthene	9.54	154	275087	85.75	ng	99
54) Dibenzofuran	9.71	168	387581	88.67	ng	97
57) Fluorene	10.06	166	438027	114.79	ng	98
70) Phenanthrene	11.04	178	3038581m	648.98	ng	
71) Anthracene	11.08	178	1515189m	291.07	ng	
72) Carbazole	11.22	167	299255	68.29	ng	# 97
74) Fluoranthene	12.22	202	3191073	647.91	ng	93
77) Pvrene	12.45	202	2504158	393.40	ng	95
80) Benzo(a)anthracene	13.62	228	1450713	306.07	ng	96
82) Chrysene	13.66	228	1083360m	214.73	ng	
85) Indeno(1,2,3-cd)pyrene	16.14	276	508245	141.68	ng	96
87) Benzo(b)fluoranthene	14.63	252	1166874m	202.38	ng	
88) Benzo(k)fluoranthene	14.63	252	507201m	95.68	ng	
89) Benzo(a)pvrene	14.93	252	972344	187.99	ng	95
90) Dibenzo(a,h)anthracene	16.14	278	103003m	25.28	ng	
91) Benzo(q,h,i)perylene	16.49	276	460256	114.91	ng	96

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

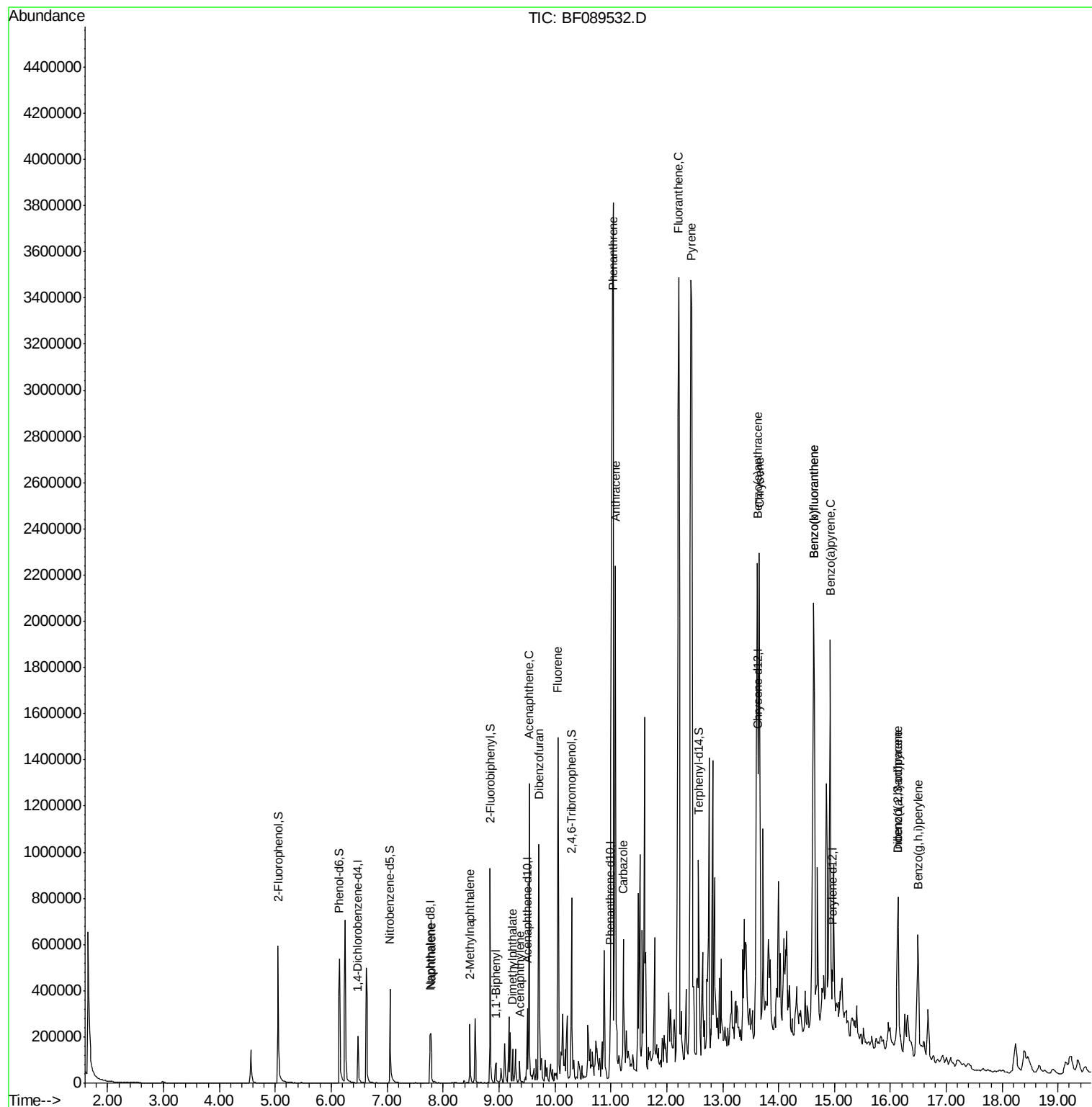
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
Data File : BF089532.D
Acq On : 2 Aug 2016 1:56
Operator : UM/SJ
Sample : H4288-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

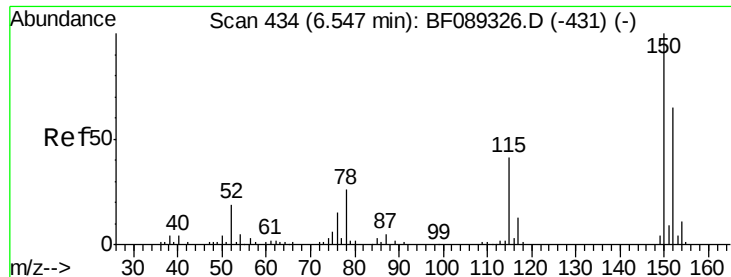
Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

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Quant Time: Aug 02 12:40:38 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 02:21:57 2016
Response via : Initial Calibration





#1

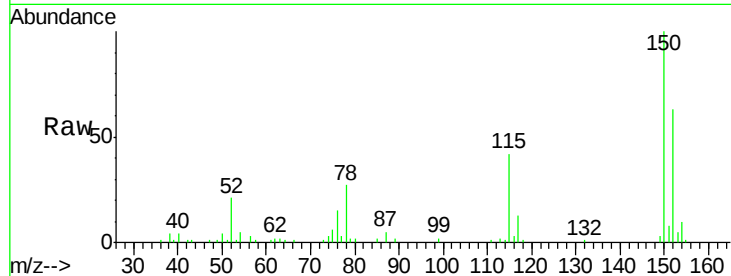
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.48 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	129.5	194.3
115	66.0	51.4	77.2

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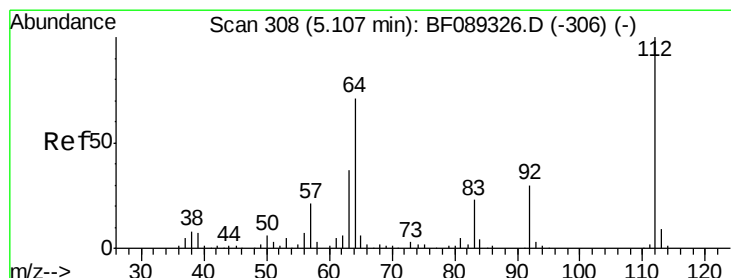
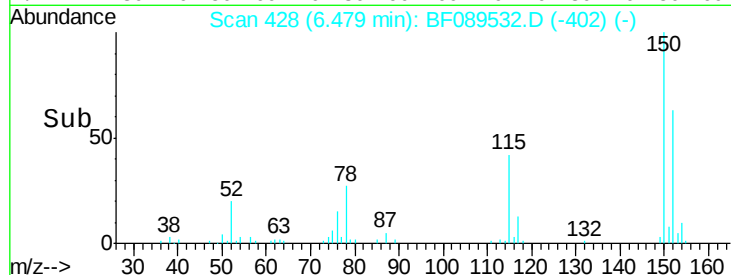
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

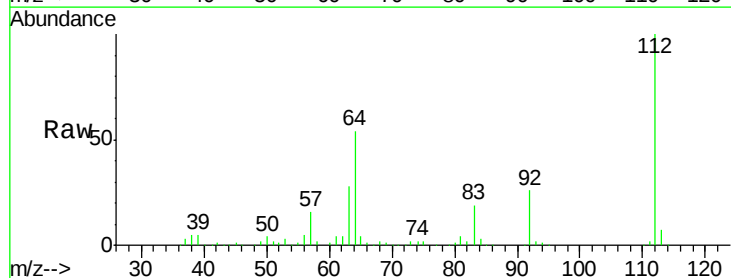
Time-->



#5

2-Fluorophenol
 Concen: 101.28 ng
 RT: 5.05 min Scan# 303
 Delta R.T. 0.01 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.0	55.0	82.6#
63	28.5	29.4	44.2#



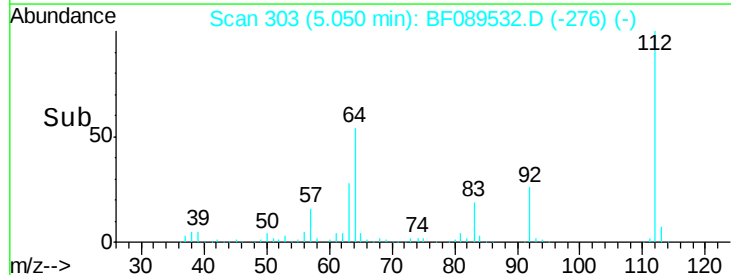
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->





#7

Phenol-d6

Concen: 98.58 ng

RT: 6.15 min Scan# 399

Delta R.T. 0.00 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Instrument :

BNA_F

ClientSampled :

SB-64-0.5-1.5

Tot Ion: 99 Resp: 308587

Ion Ratio Lower Upper

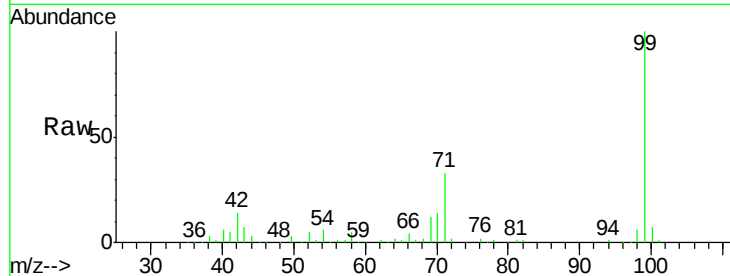
99 100

42 14.1 13.6 20.4

71 33.1 29.4 44.2

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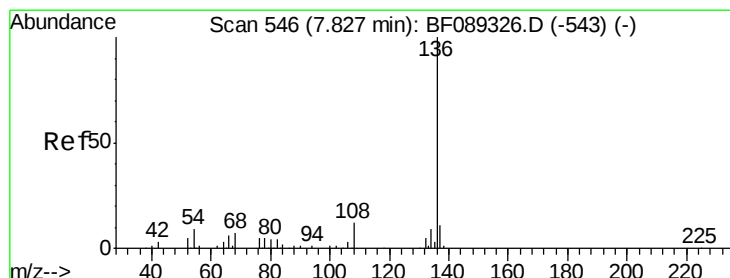
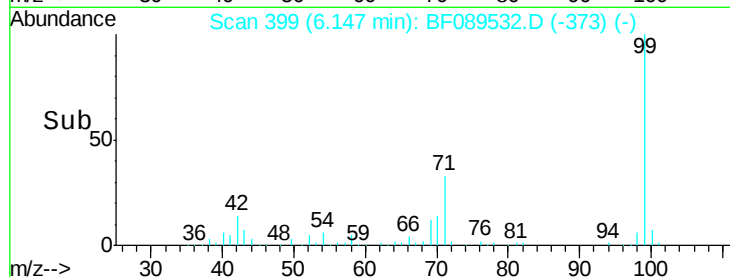
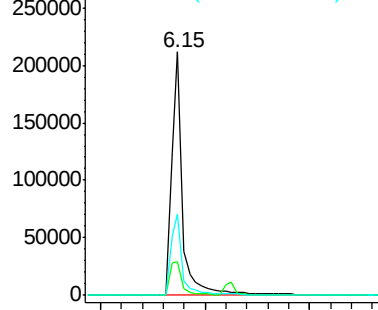
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.77 min Scan# 541

Delta R.T. 0.00 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Tgt Ion: 136 Resp: 131735

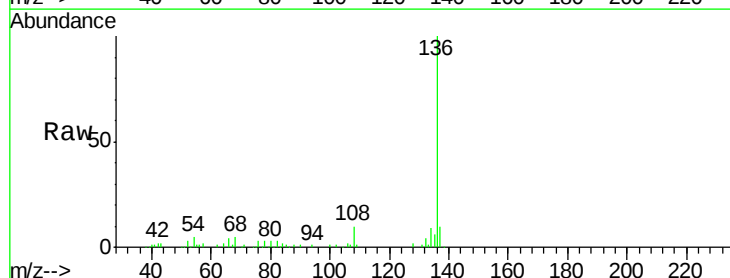
Ion Ratio Lower Upper

136 100

137 10.4 8.6 13.0

54 5.3 7.0 10.4#

68 4.7 4.9 7.3#

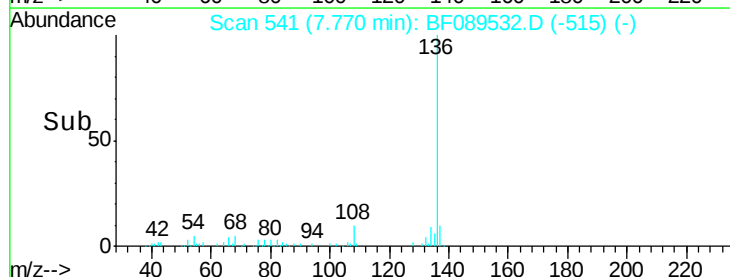
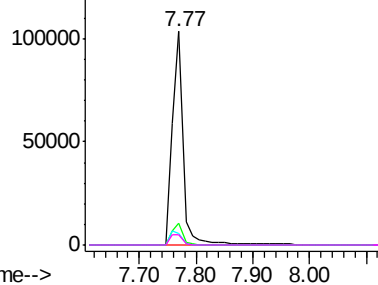


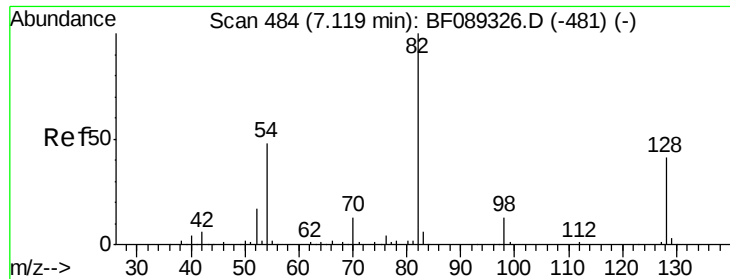
Abundance Ion 136.00 (135.70 to 136.70): E

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





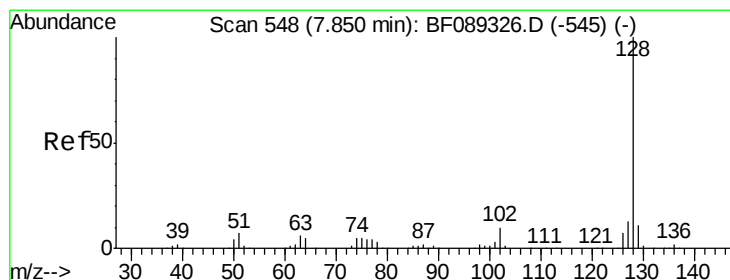
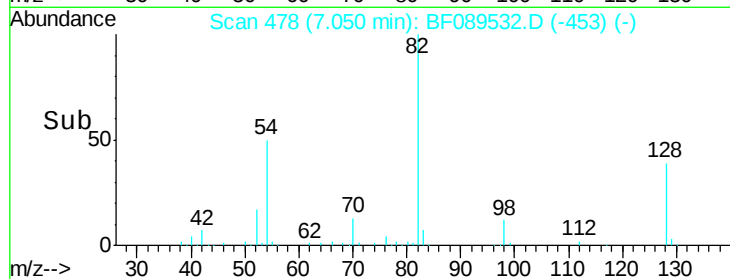
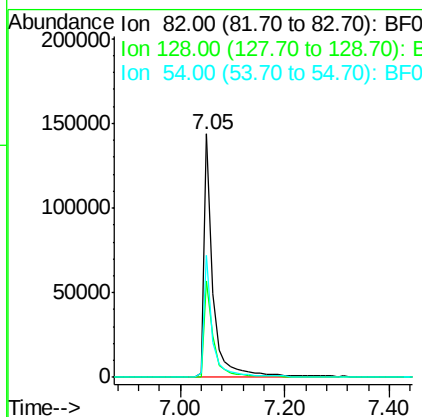
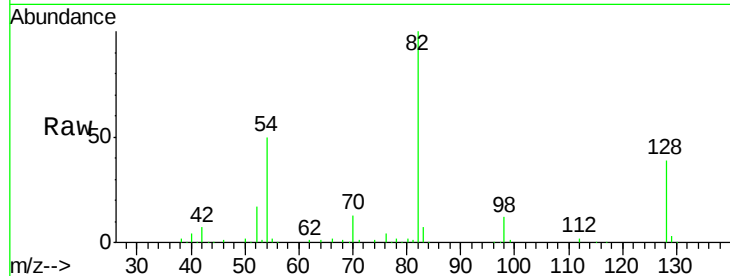
#23
 Nitrobenzene-d5
 Concen: 79.39 ng
 RT: 7.05 min Scan# 478
 Delta R.T. -0.01 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Tot Ion	Ratio	Resp	Lower	Upper
82	100	177193		
128	39.4		32.5	48.7
54	49.9		38.8	58.2

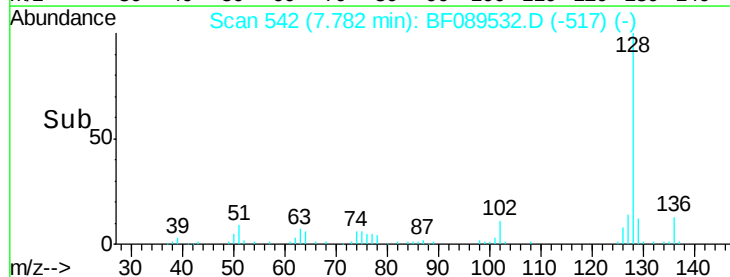
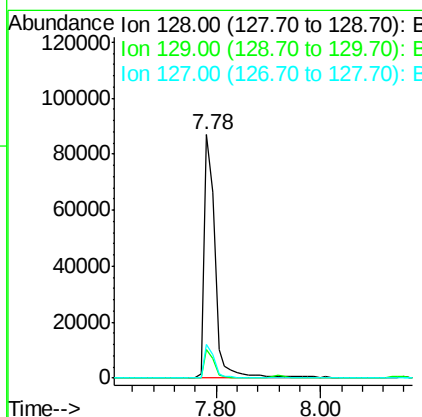
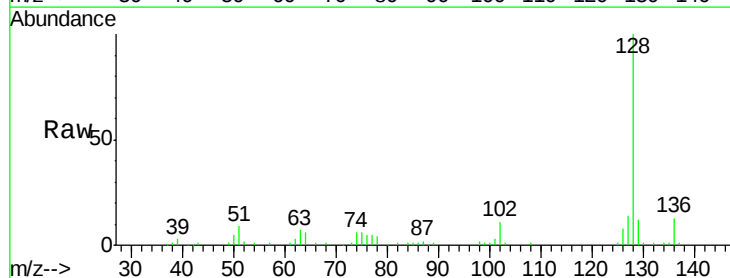
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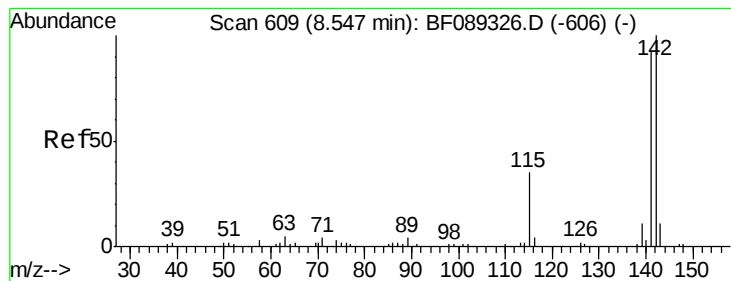
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#31
 Naphthalene
 Concen: 19.41 ng
 RT: 7.78 min Scan# 542
 Delta R.T. -0.01 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	126604		
129	11.5		8.8	13.2
127	13.7		10.8	16.2





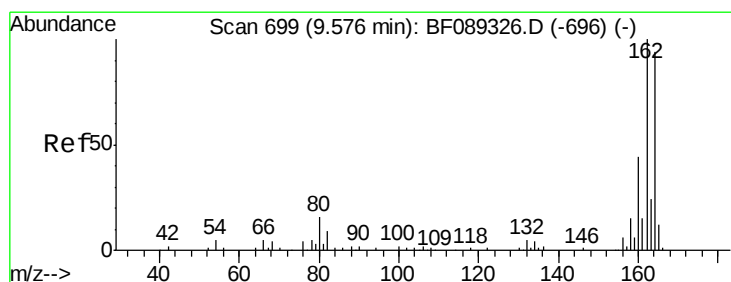
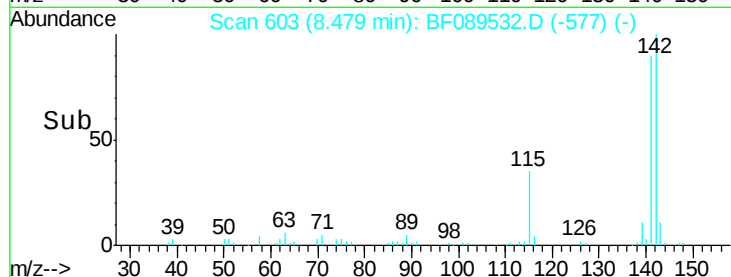
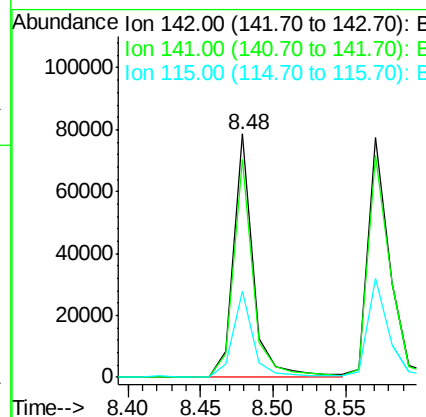
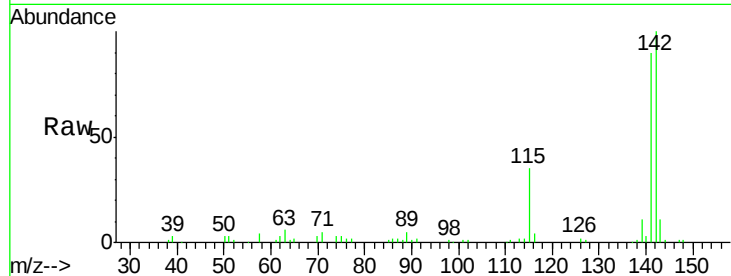
#37
2-Methylnaphthalene
Concen: 18.95 ng
RT: 8.48 min Scan# 603
Delta R.T. 0.00 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampled :
SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.9	106.3
115	35.3	27.6	41.4

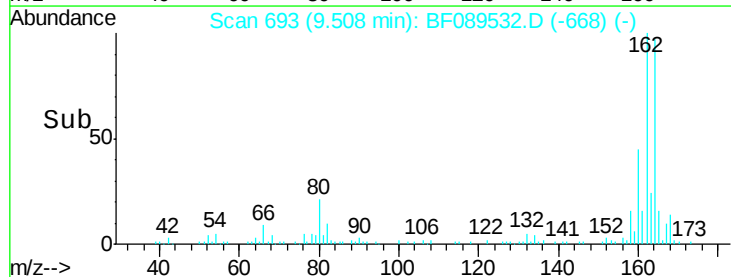
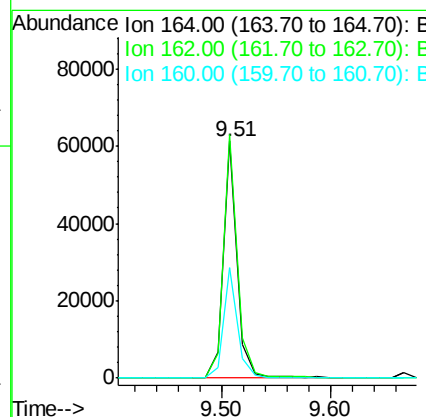
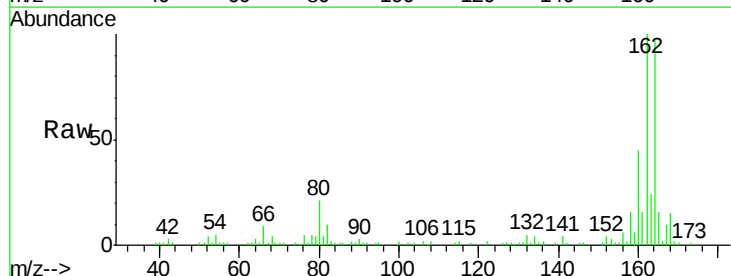
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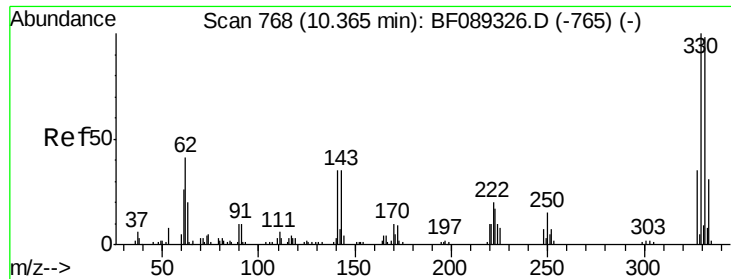
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.51 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	83.7	125.5
160	46.4	37.8	56.6





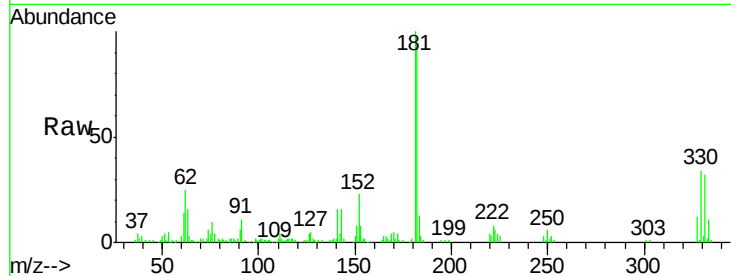
#41
 2,4,6-Tribromophenol
 Concen: 89.39 ng
 RT: 10.30 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

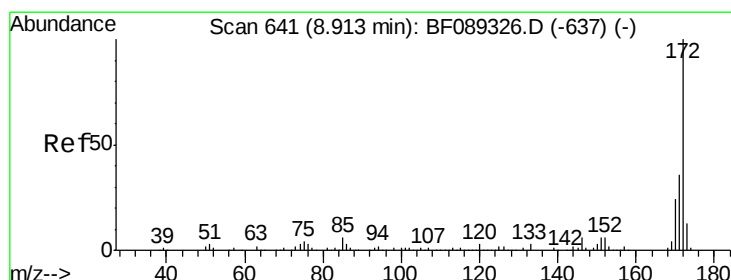
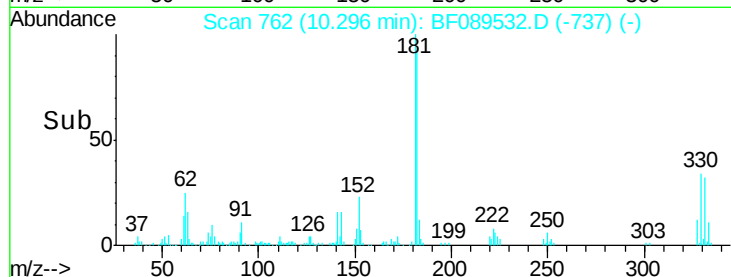
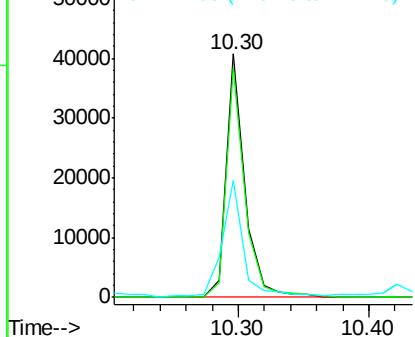
Tot Ion	Ratio	Resp	Lower	Upper
330	100	40381		
332	94.6	76.8	115.2	
141	57.5	37.3	55.9	

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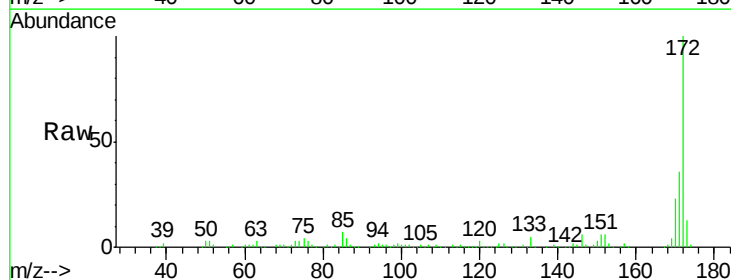


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

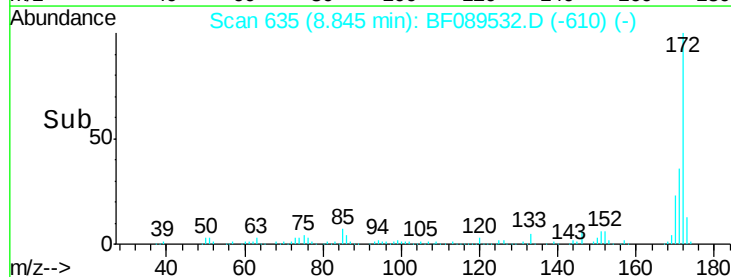
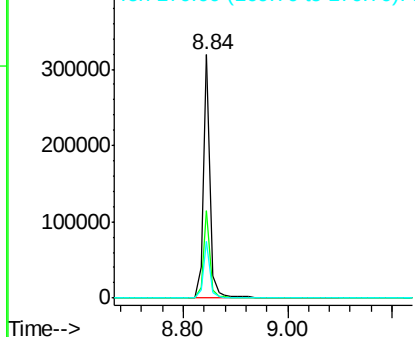


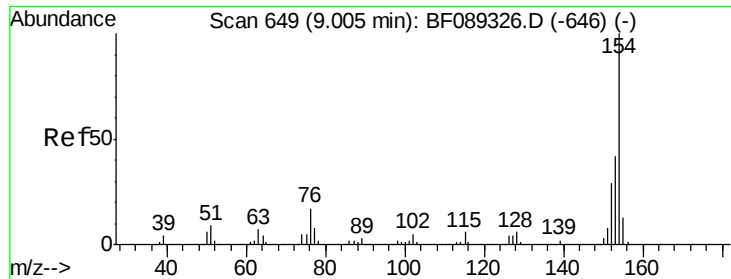
#44
 2-Fluorobiphenyl
 Concen: 77.50 ng
 RT: 8.84 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	288035		
171	35.7	29.2	43.8	
170	23.2	19.2	28.8	



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





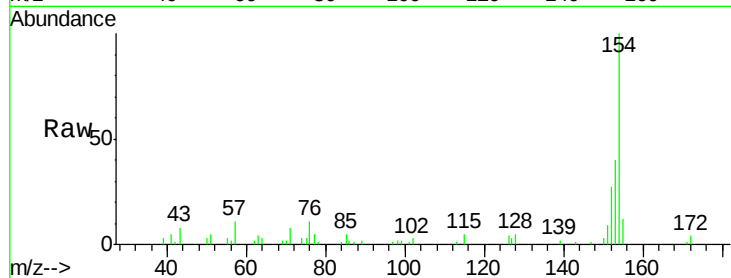
#45
1,1'-Biphenyl
Concen: 8.35 ng
RT: 8.95 min Scan# 644
Delta R.T. 0.00 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

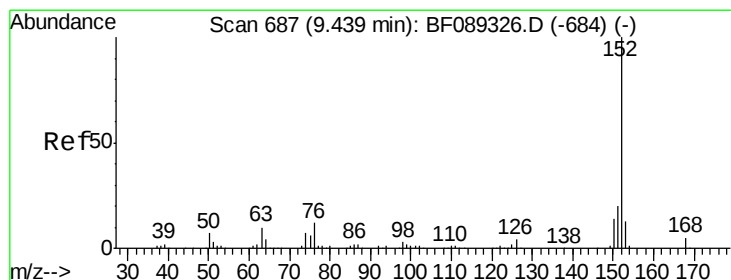
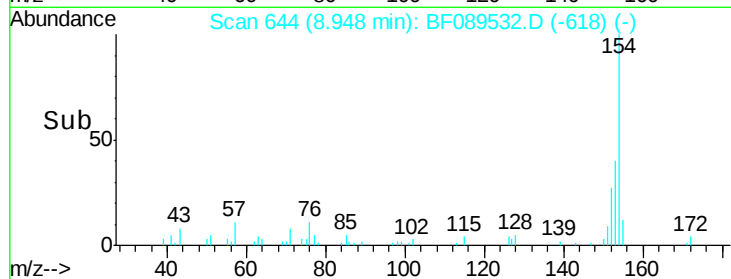
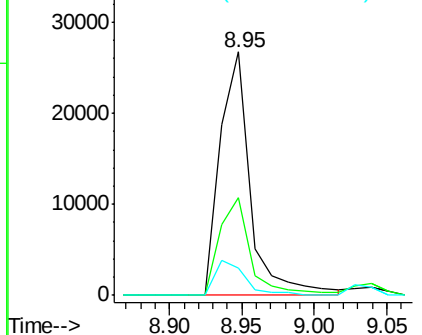
Tot Ion:	154	Resp:	38800
Ion Ratio	Lower	Upper	
154	100		
153	39.9	21.0	61.0
76	11.2	0.0	36.6

Manual Integrations
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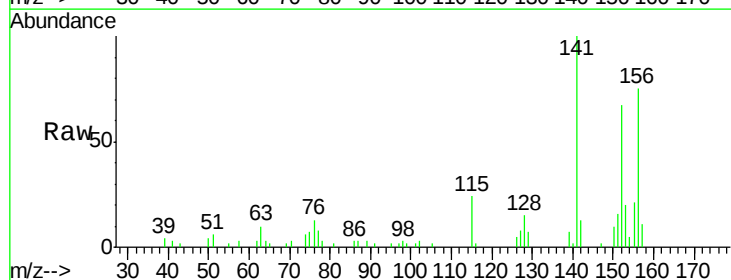


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

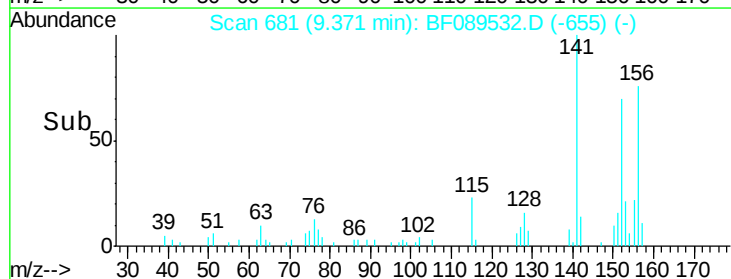
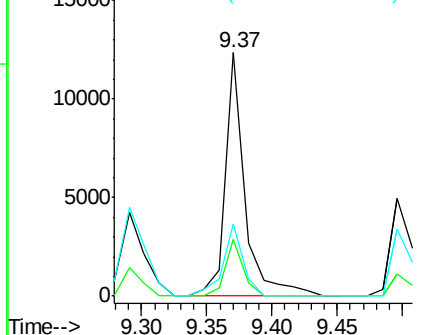


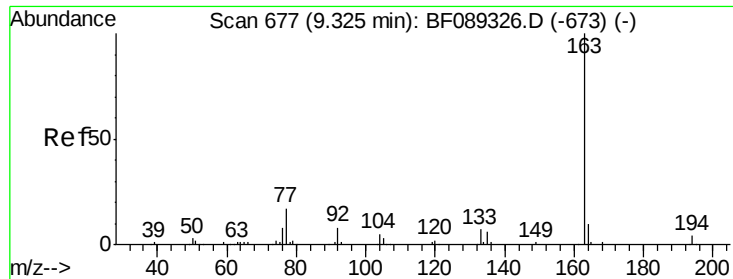
#48
Acenaphthylene
Concen: 2.35 ng
RT: 9.37 min Scan# 681
Delta R.T. 0.00 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion:	152	Resp:	12900
Ion Ratio	Lower	Upper	
152	100		
151	23.3	16.2	24.2
153	29.7	10.2	15.4#



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





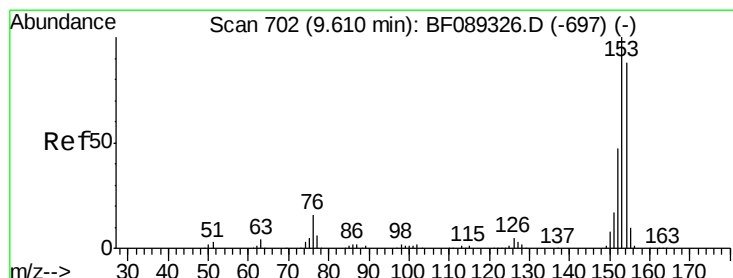
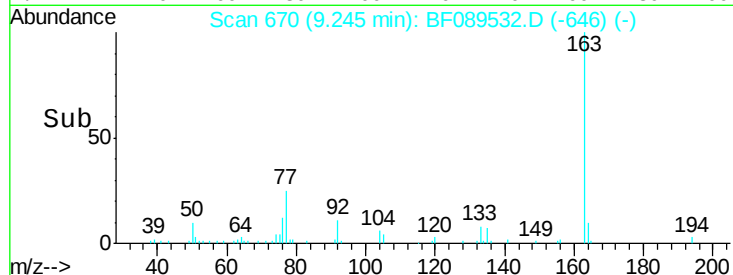
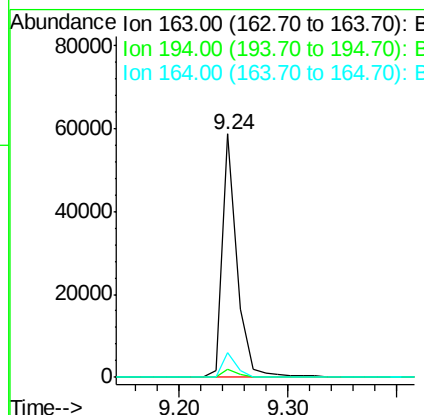
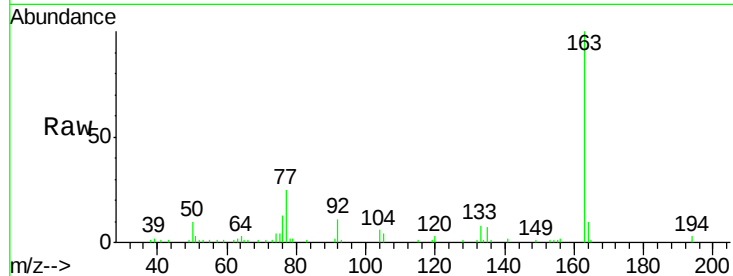
#49
Dimethylphthalate
Concen: 13.49 ng
RT: 9.24 min Scan# 670
Delta R.T. -0.02 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

Tot Ion	Ratio	Resp	Lower	Upper
163	100	55999		
194	3.2		2.8	4.2
164	10.2		7.8	11.8

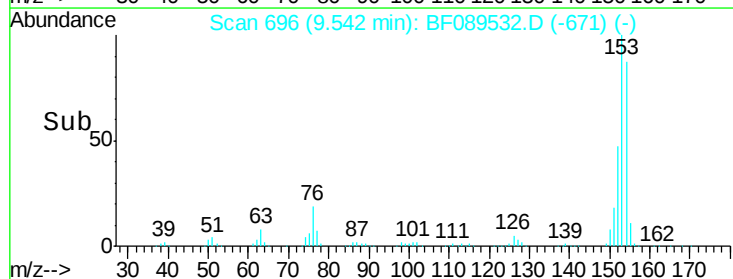
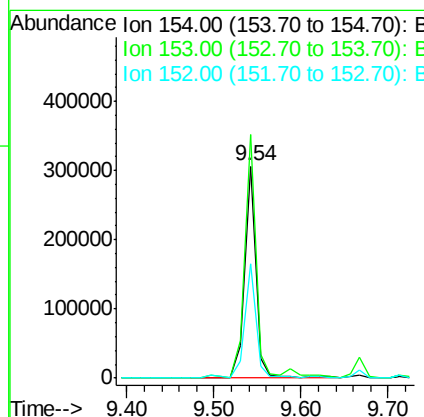
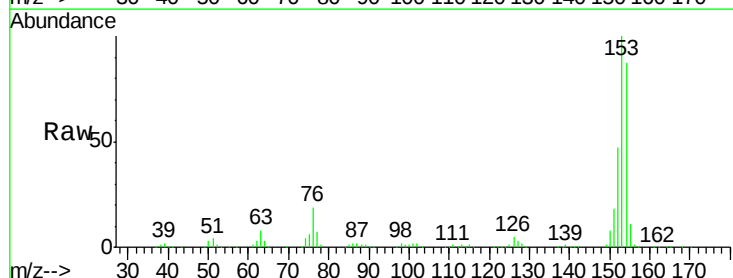
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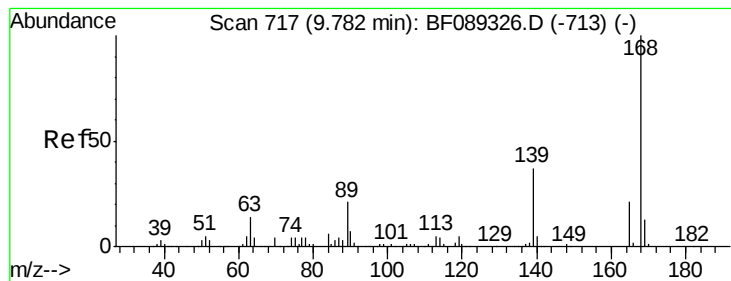
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#51
Acenaphthene
Concen: 85.75 ng
RT: 9.54 min Scan# 696
Delta R.T. -0.01 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	275087		
153	114.8		91.4	137.2
152	53.9		43.8	65.6





#54

Dibenzofuran

Concen: 88.67 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.01 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Instrument :

BNA_F

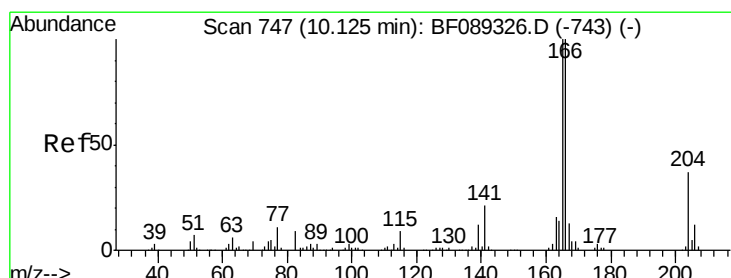
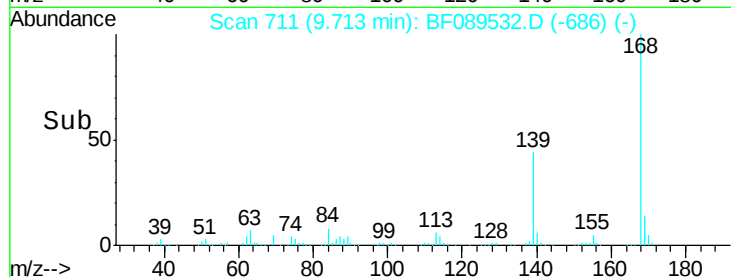
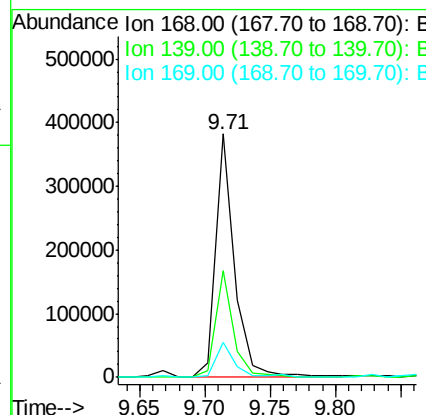
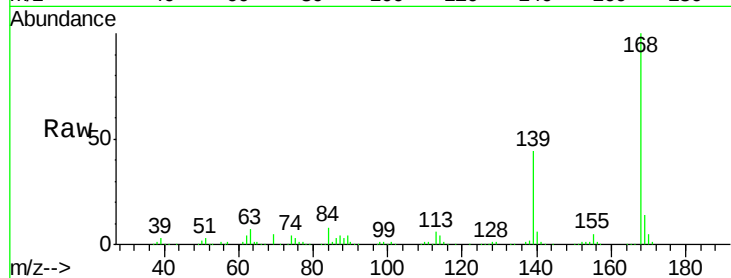
ClientSampleId :

SB-64-0.5-1.5

Tot Ion:	168	Resp:	387581
Ion Ratio	Lower	Upper	
168	100		
139	44.0	33.7	50.5
169	14.5	10.7	16.1

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#57

Fluorene

Concen: 114.79 ng

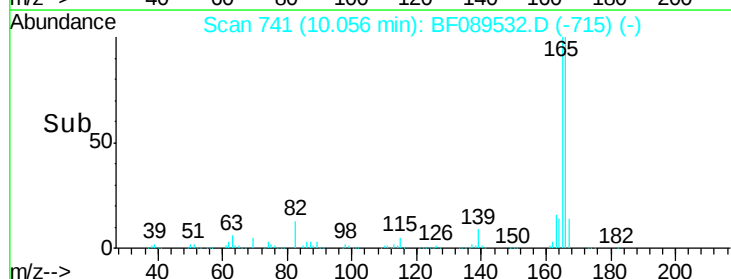
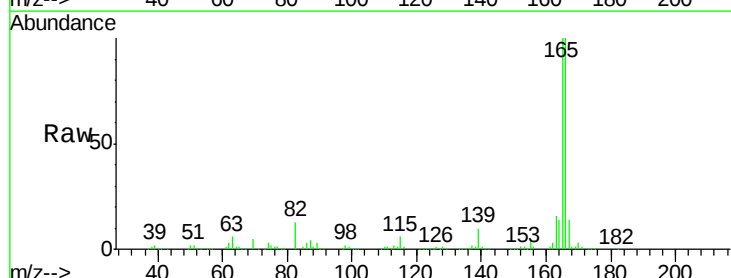
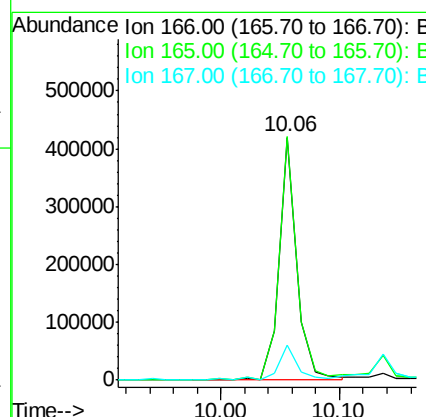
RT: 10.06 min Scan# 741

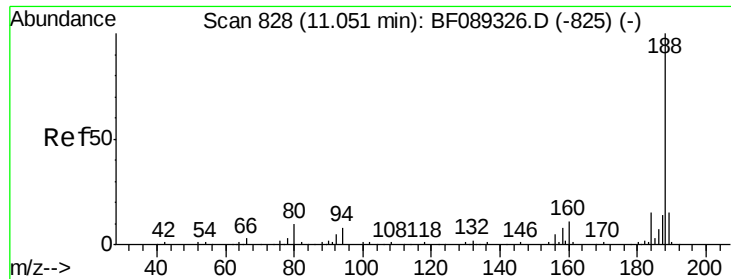
Delta R.T. 0.00 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Tgt Ion:	166	Resp:	438027
Ion Ratio	Lower	Upper	
166	100		
165	100.3	79.0	118.4
167	14.3	10.2	15.2





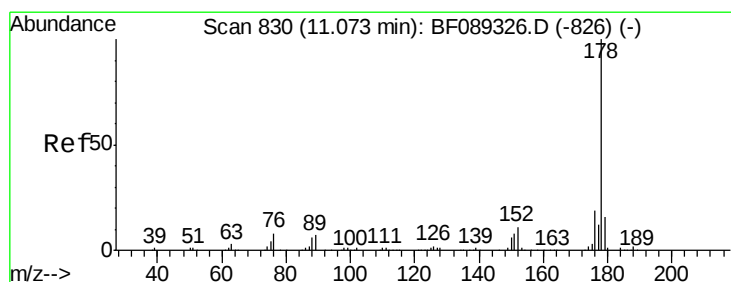
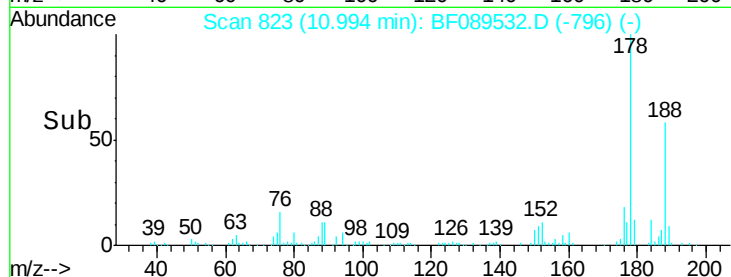
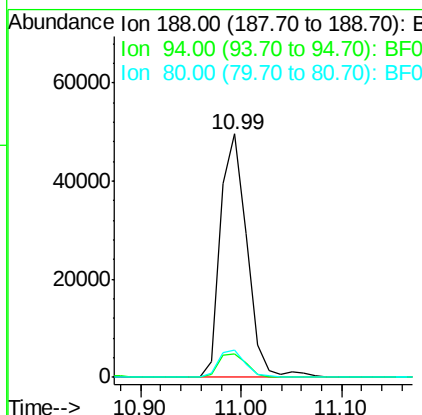
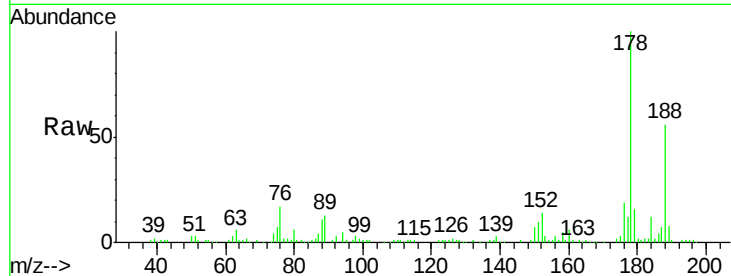
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 823
Delta R.T. 0.01 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

Tot Ion	Ratio	Resp	Lower	Upper
188	100	90783		
94	9.7	6.5	9.7#	
80	11.0	7.2	10.8#	

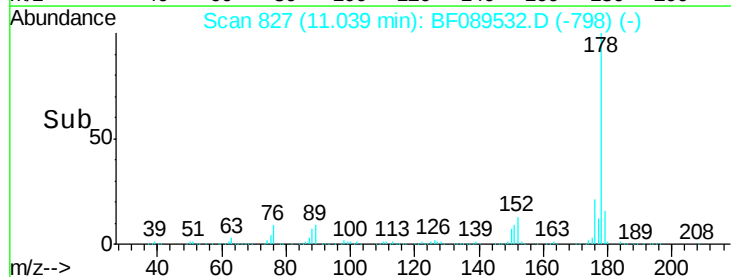
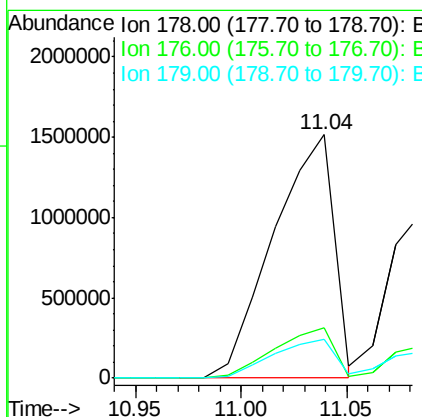
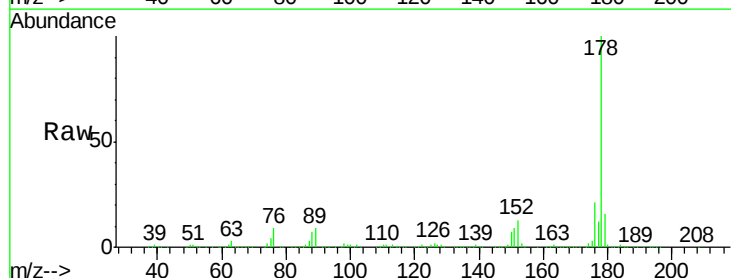
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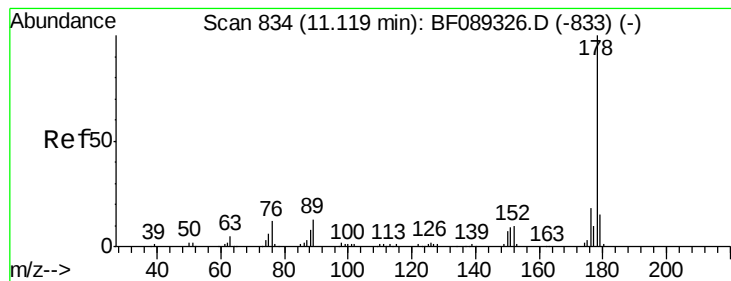
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#70
Phenanthrene
Concen: 648.98 ng m
RT: 11.04 min Scan# 827
Delta R.T. 0.03 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3038581		
176	20.5	15.5	23.3	
179	16.0	12.3	18.5	





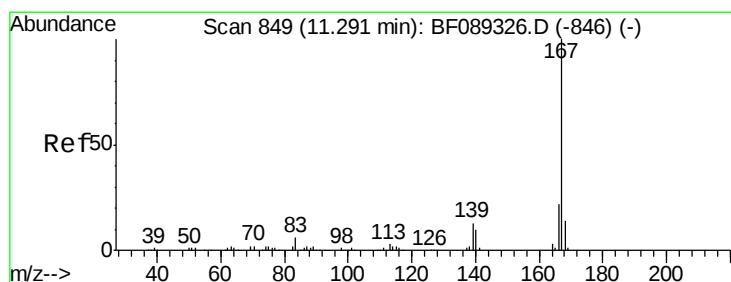
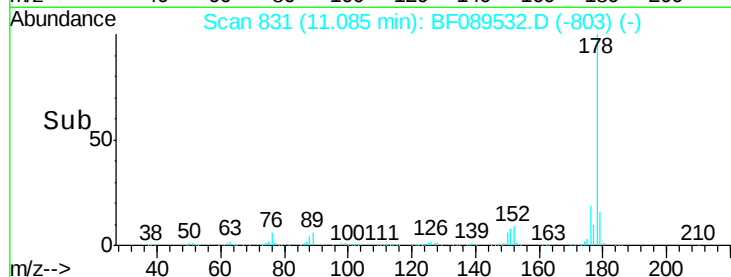
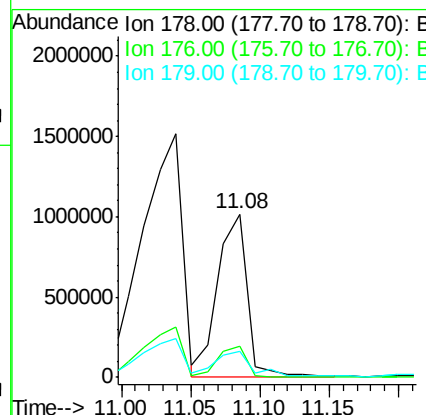
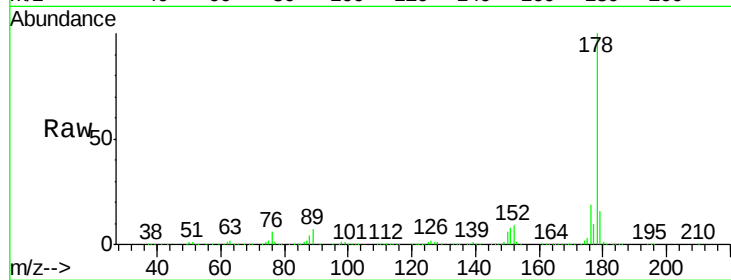
#71
 Anthracene
 Concen: 291.07 ng/mL
 RT: 11.08 min Scan# 831
 Delta R.T. 0.02 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.8	22.2
179	15.7	12.6	18.8

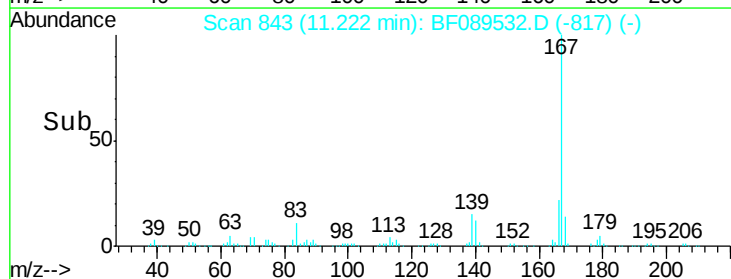
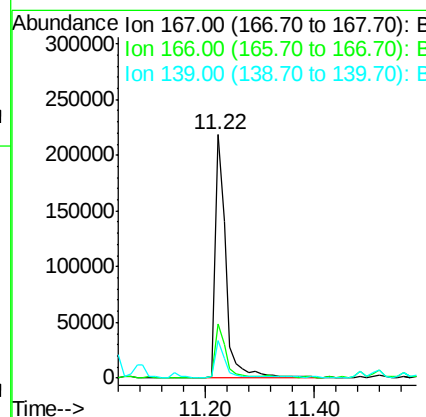
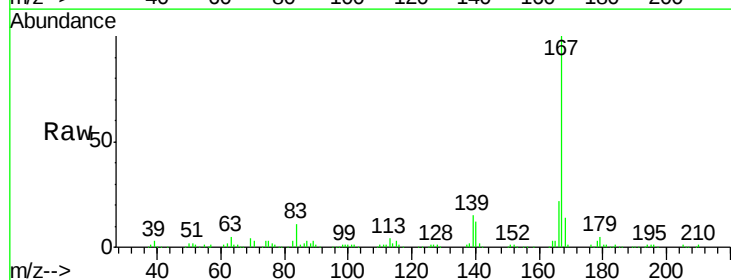
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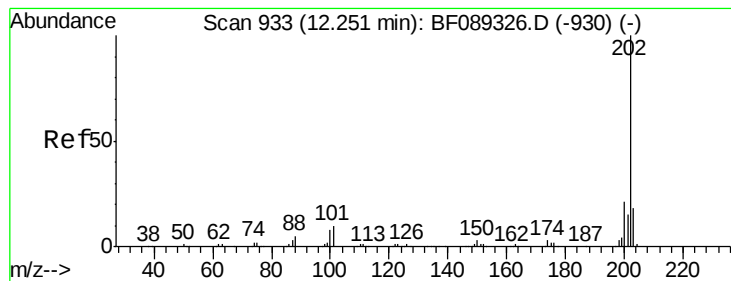
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#72
 Carbazole
 Concen: 68.29 ng/mL
 RT: 11.22 min Scan# 843
 Delta R.T. 0.00 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.6	26.4
139	15.3	10.1	15.1





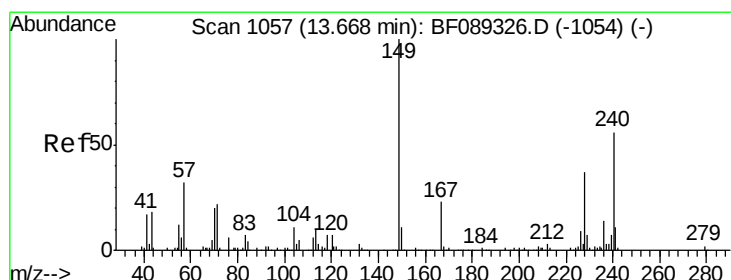
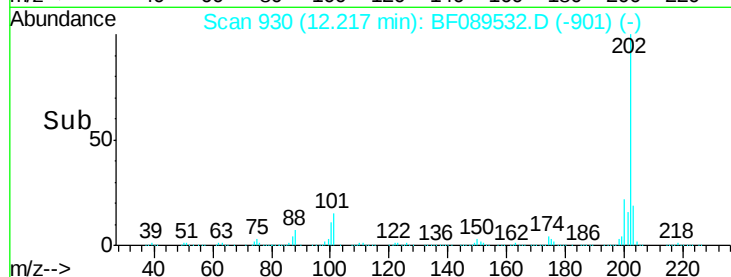
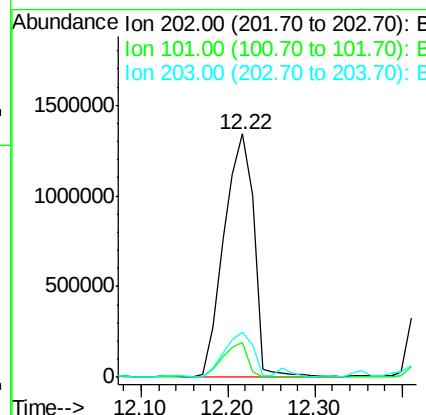
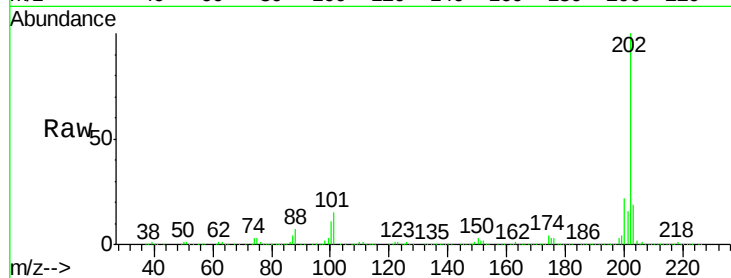
#74
 Fluoranthene
 Concen: 647.91 ng
 RT: 12.22 min Scan# 930
 Delta R.T. 0.03 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.5	0.0	29.9
203	18.8	0.0	37.3

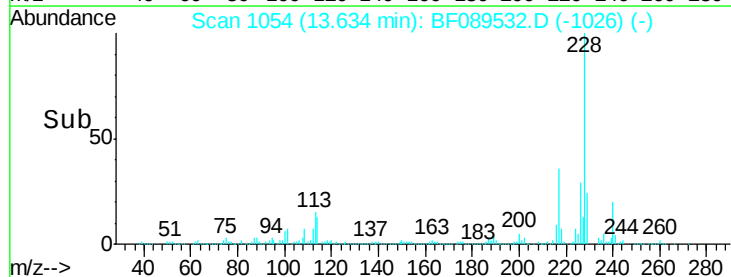
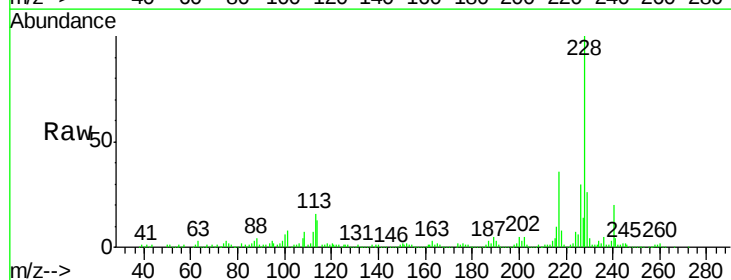
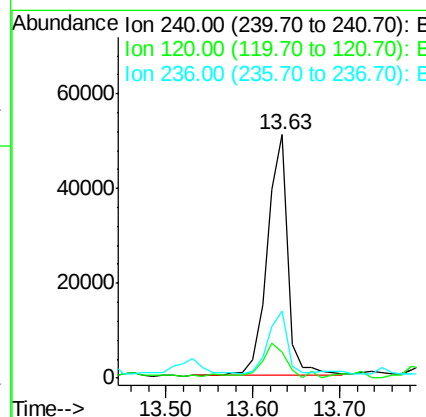
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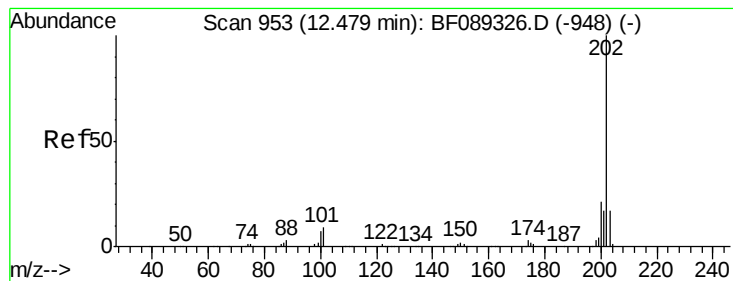
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.63 min Scan# 1054
 Delta R.T. 0.02 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.1	13.7
236	27.3	20.6	30.8





#77

Pvrene

Concen: 393.40 ng

RT: 12.45 min Scan# 950

Delta R.T. 0.03 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Instrument :

BNA_F

ClientSampleId :

SB-64-0.5-1.5

Tot Ion:202 Resp: 2504158

Ion Ratio Lower Upper

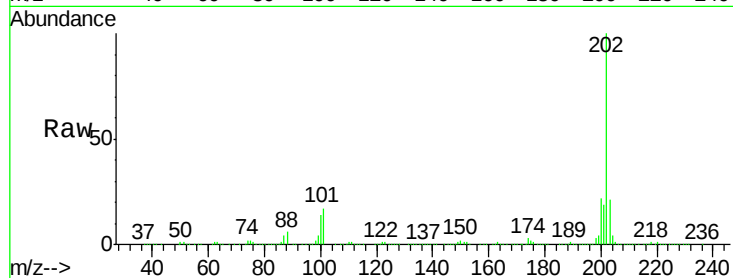
202 100

200 22.4 16.9 25.3

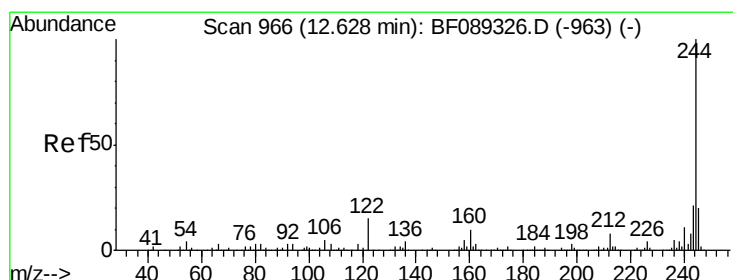
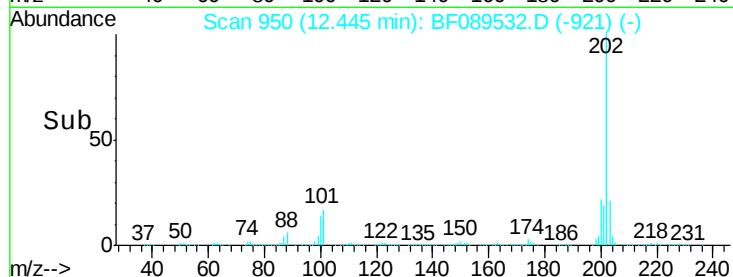
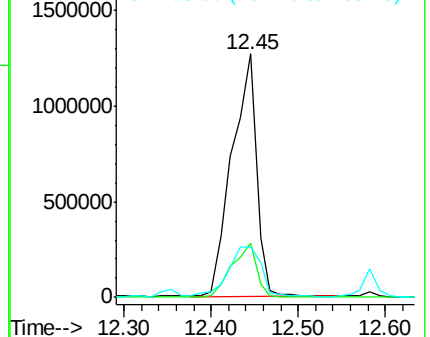
203 20.8 14.0 21.0

Manual Integrations
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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: 65.31 ng

RT: 12.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

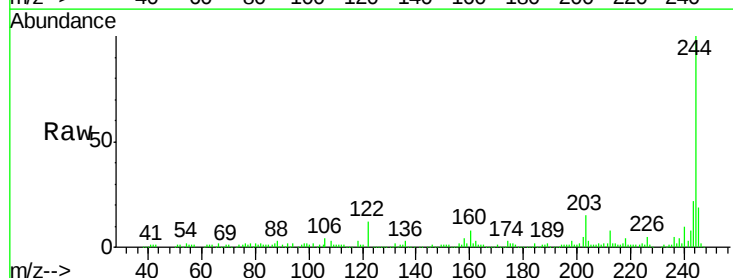
Tgt Ion:244 Resp: 234365

Ion Ratio Lower Upper

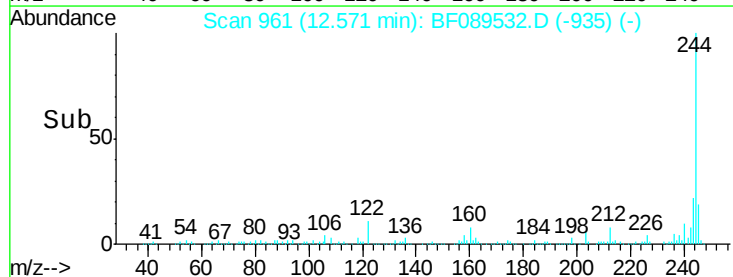
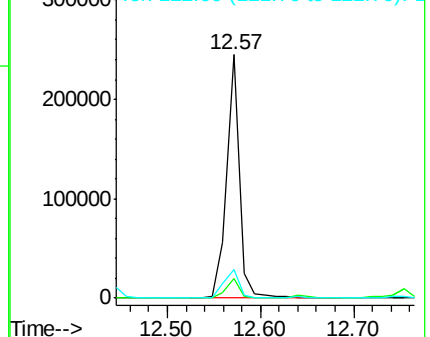
244 100

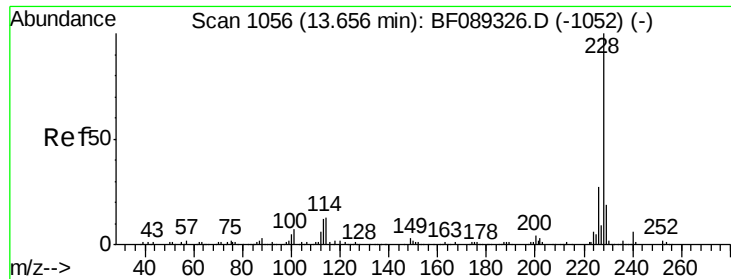
212 7.8 6.5 9.7

122 11.6 11.4 17.0



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





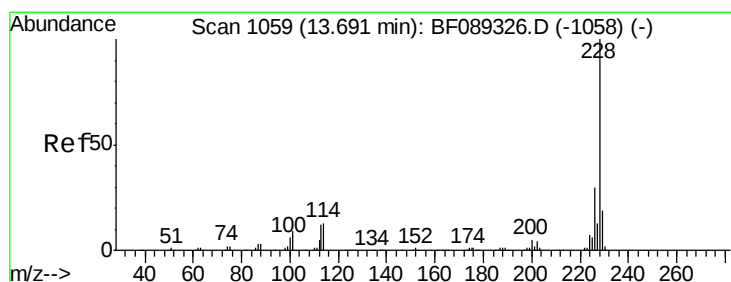
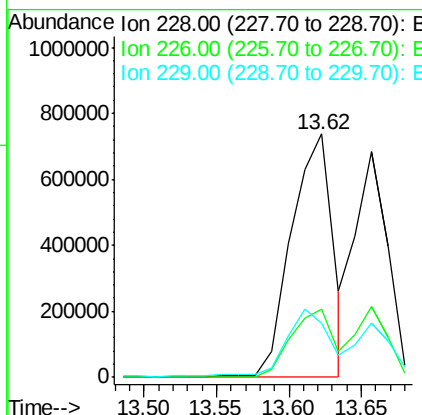
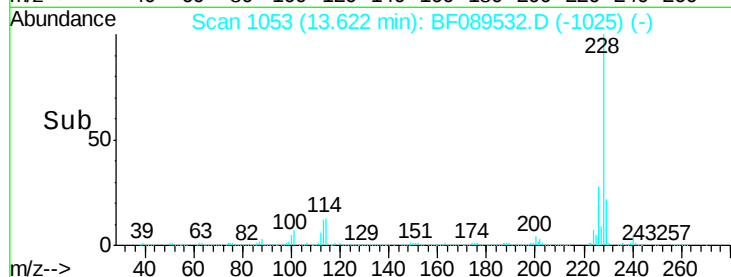
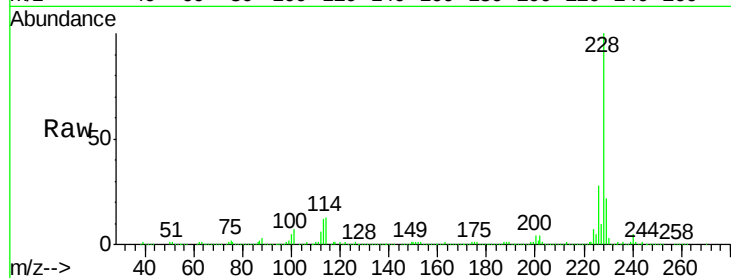
#80
Benzo(a)anthracene
Concen: 306.07 ng
RT: 13.62 min Scan# 1053
Delta R.T. 0.02 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

Tot Ion:228 Resp: 1450713
Ion Ratio Lower Upper
228 100
226 28.3 21.4 32.2
229 22.2 15.9 23.9

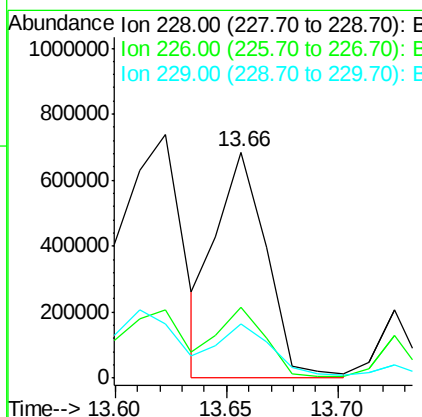
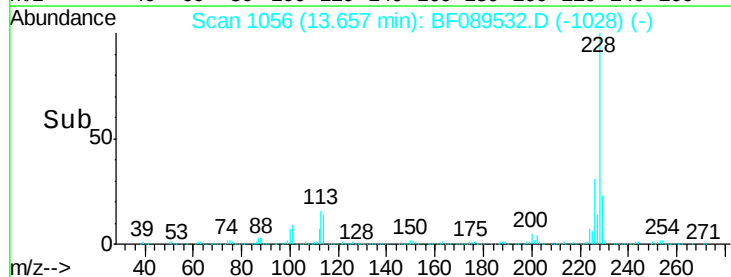
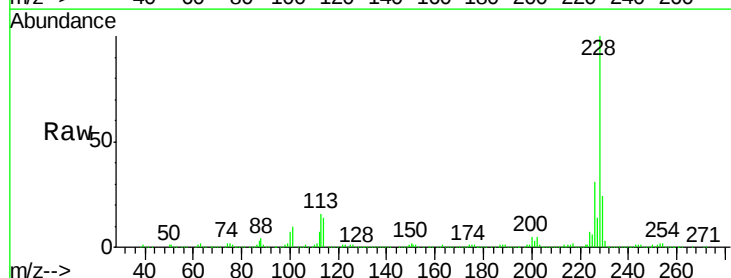
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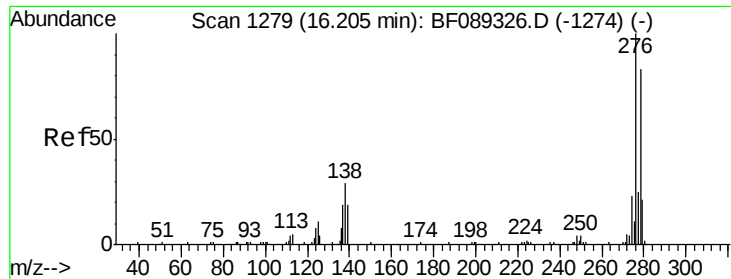
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#82
Chrysene
Concen: 214.73 ng m
RT: 13.66 min Scan# 1056
Delta R.T. 0.02 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion:228 Resp: 1083360
Ion Ratio Lower Upper
228 100
226 31.2 24.2 36.2
229 23.8 15.9 23.9





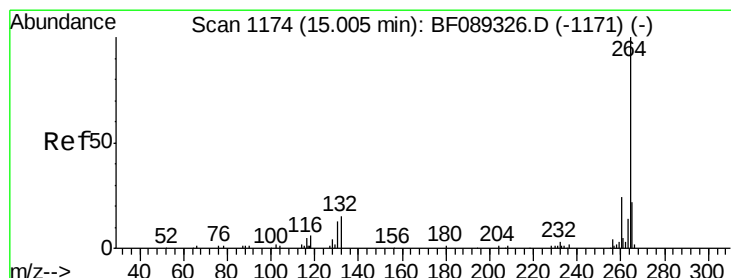
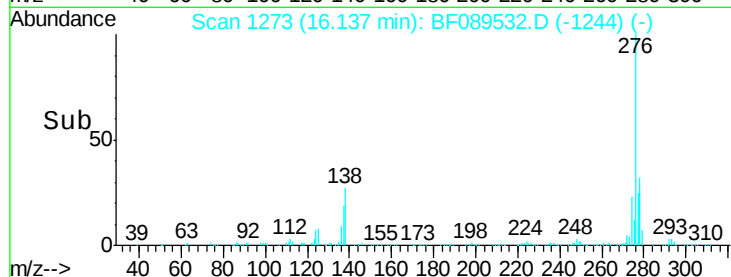
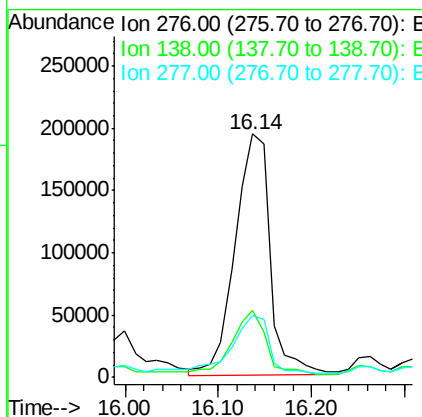
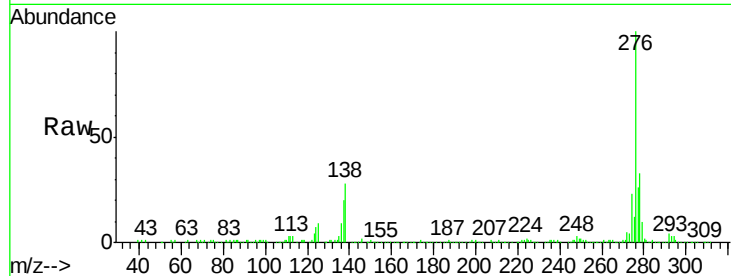
#85
Indeno(1,2,3-cd)pyrene
Concen: 141.68 ng
RT: 16.14 min Scan# 1273
Delta R.T. 0.03 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.7	23.0	34.4
277	28.4	20.2	30.4

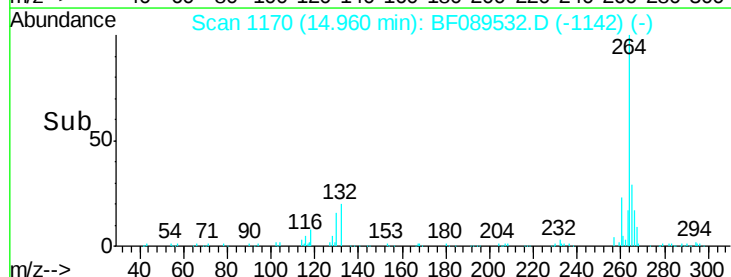
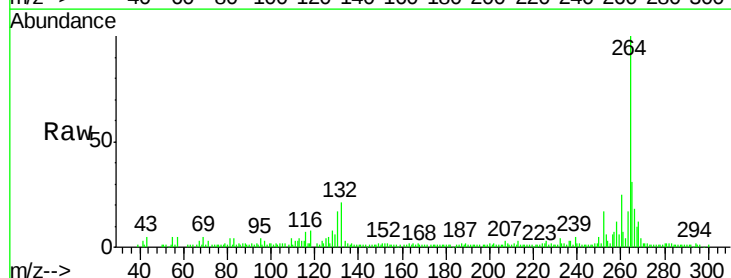
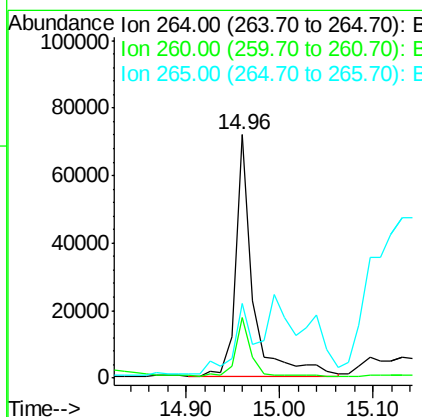
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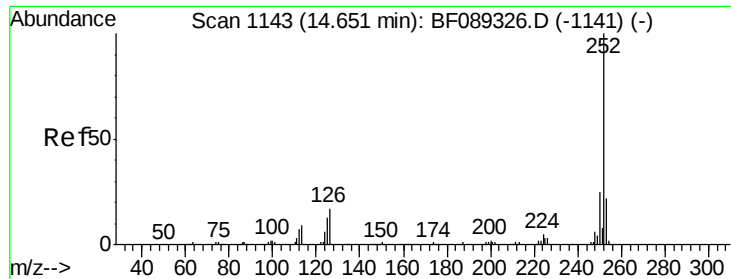
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#86
Perylene-d12
Concen: 20.00 ng
RT: 14.96 min Scan# 1170
Delta R.T. 0.02 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.0	28.4
265	30.6	17.5	26.3#





#87

Benzo(b)fluoranthene

Concen: 202.38 ng/mL

RT: 14.63 min Scan# 1141

Delta R.T. 0.03 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Instrument :

BNA_F

ClientSampleId :

SB-64-0.5-1.5

Tot Ion:252 Resp: 1166874

Ion Ratio Lower Upper

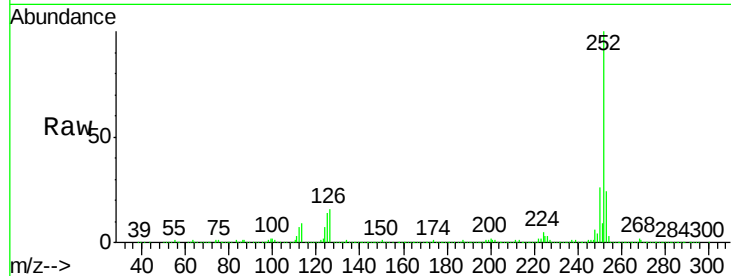
252 100

253 23.7 17.2 25.8

125 14.1 9.7 14.5

Manual Integrations
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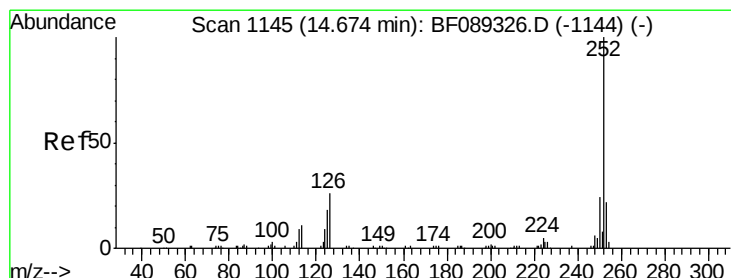
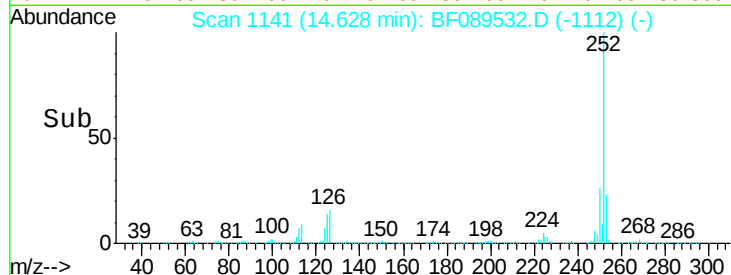
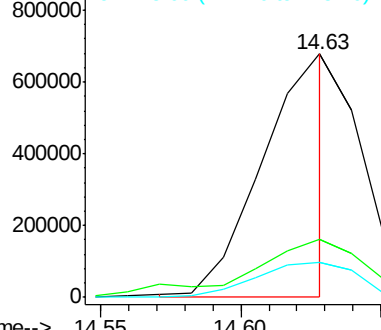
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 95.68 ng/mL

RT: 14.63 min Scan# 1141

Delta R.T. 0.01 min

Lab File: BF089532.D

Acq: 2 Aug 2016 1:56

Tgt Ion:252 Resp: 507201

Ion Ratio Lower Upper

252 100

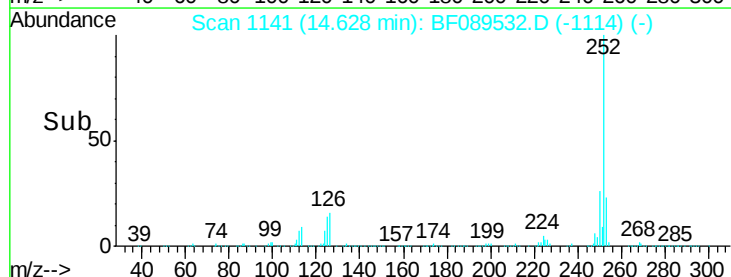
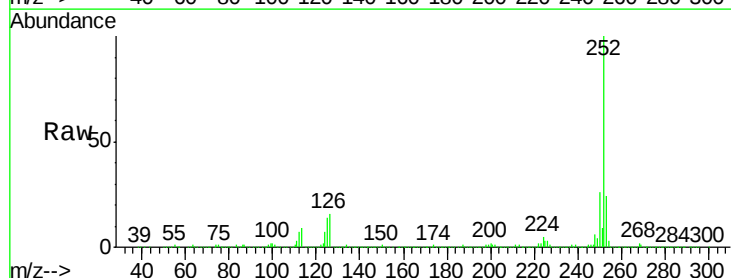
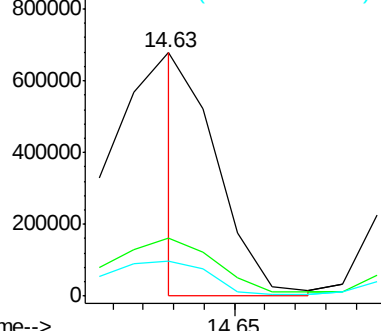
253 23.7 17.8 26.8

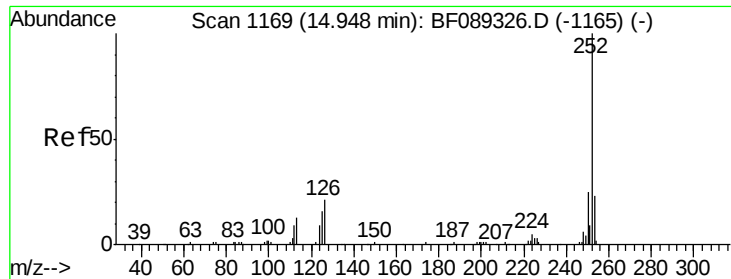
125 14.1 10.7 16.1

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





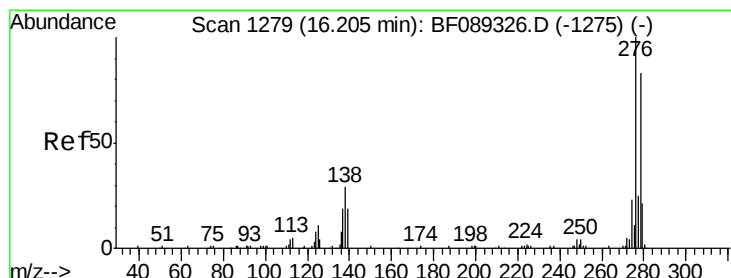
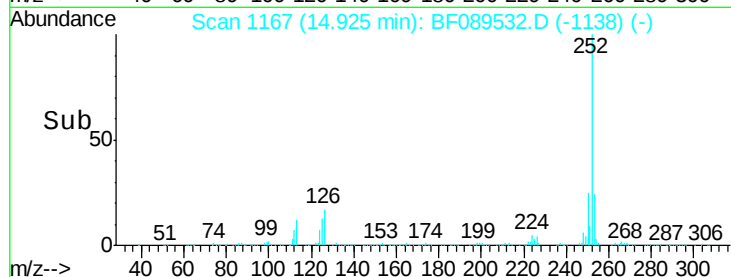
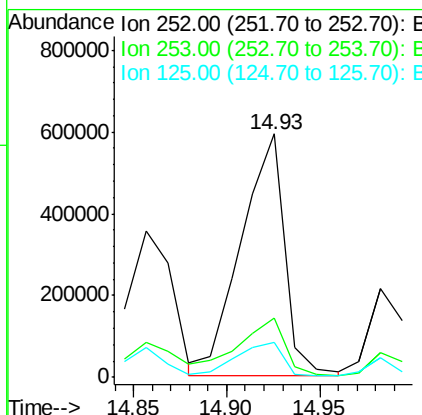
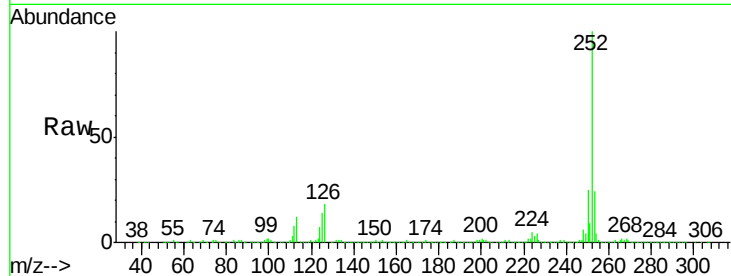
#89
Benzo(a)pyrene
Concen: 187.99 ng
RT: 14.93 min Scan# 1167
Delta R.T. 0.03 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.4	26.2
125	14.2	12.4	18.6

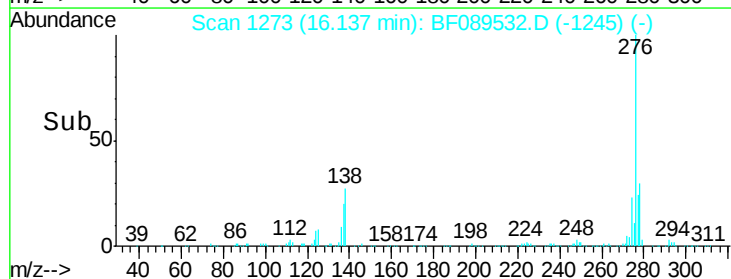
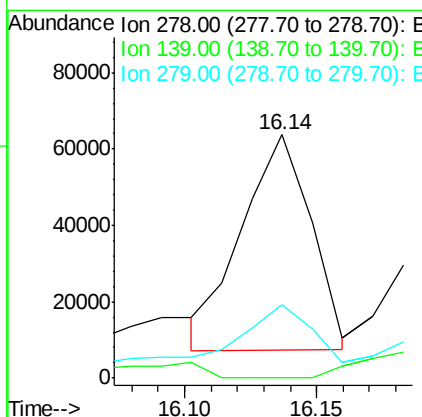
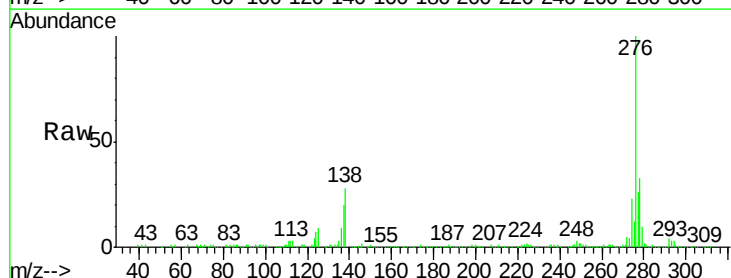
Manual Integrations
APPROVED

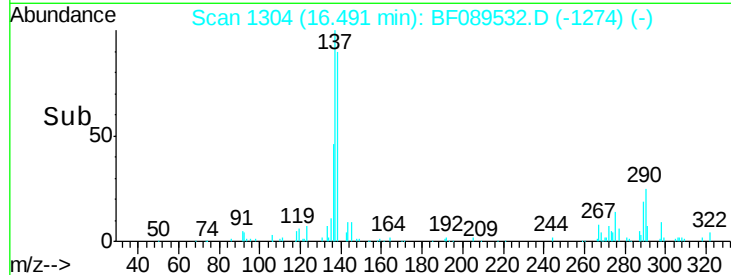
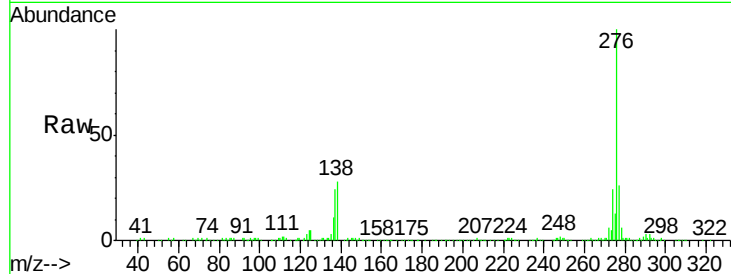
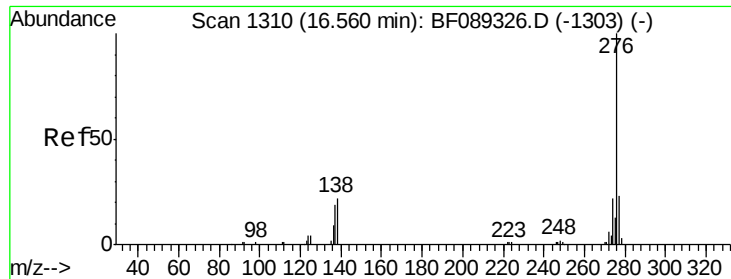
sohil
8/2/2016 5:06:32 PM



#90
Dibenzo(a,h)anthracene
Concen: 25.28 ng m
RT: 16.14 min Scan# 1273
Delta R.T. 0.02 min
Lab File: BF089532.D
Acq: 2 Aug 2016 1:56

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.3	24.5#
279	30.1	19.1	28.7#





#91
 Benzo(a,h,i)perylene
 Concen: 114.91 ng
 RT: 16.49 min Scan# 1304
 Delta R.T. 0.05 min
 Lab File: BF089532.D
 Acq: 2 Aug 2016 1:56

Tot Ion:	276	Resp:	460256
Ion Ratio		Lower	Upper
276	100		
277	26.2	18.6	28.0
138	28.2	21.4	32.0

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5

Manual Integrations
 APPROVED

sohil
 8/2/2016 5:06:32 PM

