

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050516\
 Data File : BF086722.D
 Acq On : 5 May 2016 23:12
 Operator : UM/SJ
 Sample : H2762-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMP

Manual Integrations
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Quant Time: May 06 03:30:45 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	164624	40.00	ng	-0.01
21) Naphthalene-d8	8.03	136	495053	40.00	ng	0.00
38) Acenaphthene-d10	9.77	164	265042	40.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	358699	40.00	ng	0.00
75) Chrysene-d12	13.89	240	271961	40.00	ng	0.01
86) Perylene-d12	15.28	264	292044	40.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	1301842	130.92	ng	0.00
7) Phenol-d6	6.38	99	1857251	138.65	ng	0.01
23) Nitrobenzene-d5	7.30	82	1071394	111.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	301586	116.32	ng	-0.01
44) 2-Fluorobiphenyl	9.09	172	1406468	86.99	ng	-0.01
78) Terphenyl-d14	12.84	244	946013	70.30	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.08	128	11947797	472.39	ng	# 92
37) 2-Methylnaphthalene	8.75	142	4337843	290.70	ng	# 95
45) 1,1'-Biphenyl	9.20	154	1305217	60.23	ng	95
48) Acenaphthylene	9.64	152	2878272	115.95	ng	# 95
49) Dimethylphthalate	9.49	163	221971	11.23	ng	98
51) Acenaphthene	9.81	154	1426396	87.11	ng	97
54) Dibenzofuran	9.97	168	465291	22.93	ng	# 89
57) Fluorene	10.33	166	2889883	175.69	ng	99
70) Phenanthrene	11.30	178	7683628	398.79	ng	95
71) Anthracene	11.34	178	2754041m	136.50	ng	
74) Fluoranthene	12.48	202	3185188	164.96	ng	93
77) Pyrene	12.71	202	3655016	168.58	ng	96
80) Benzo(a)anthracene	13.88	228	1609081	104.61	ng	# 89
82) Chrysene	13.92	228	1370121m	83.50	ng	
85) Indeno(1,2,3-cd)pyrene	16.59	276	317511	22.55	ng	# 88
87) Benzo(b)fluoranthene	14.89	252	1148380m	65.44	ng	
88) Benzo(k)fluoranthene	14.91	252	91608m	5.54	ng	
89) Benzo(a)pyrene	15.22	252	989179	61.20	ng	# 95
90) Dibenzo(a,h)anthracene	16.60	278	87901	5.66	ng	96
91) Benzo(a,h,i)perylene	16.99	276	321268m	19.71	ng	

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

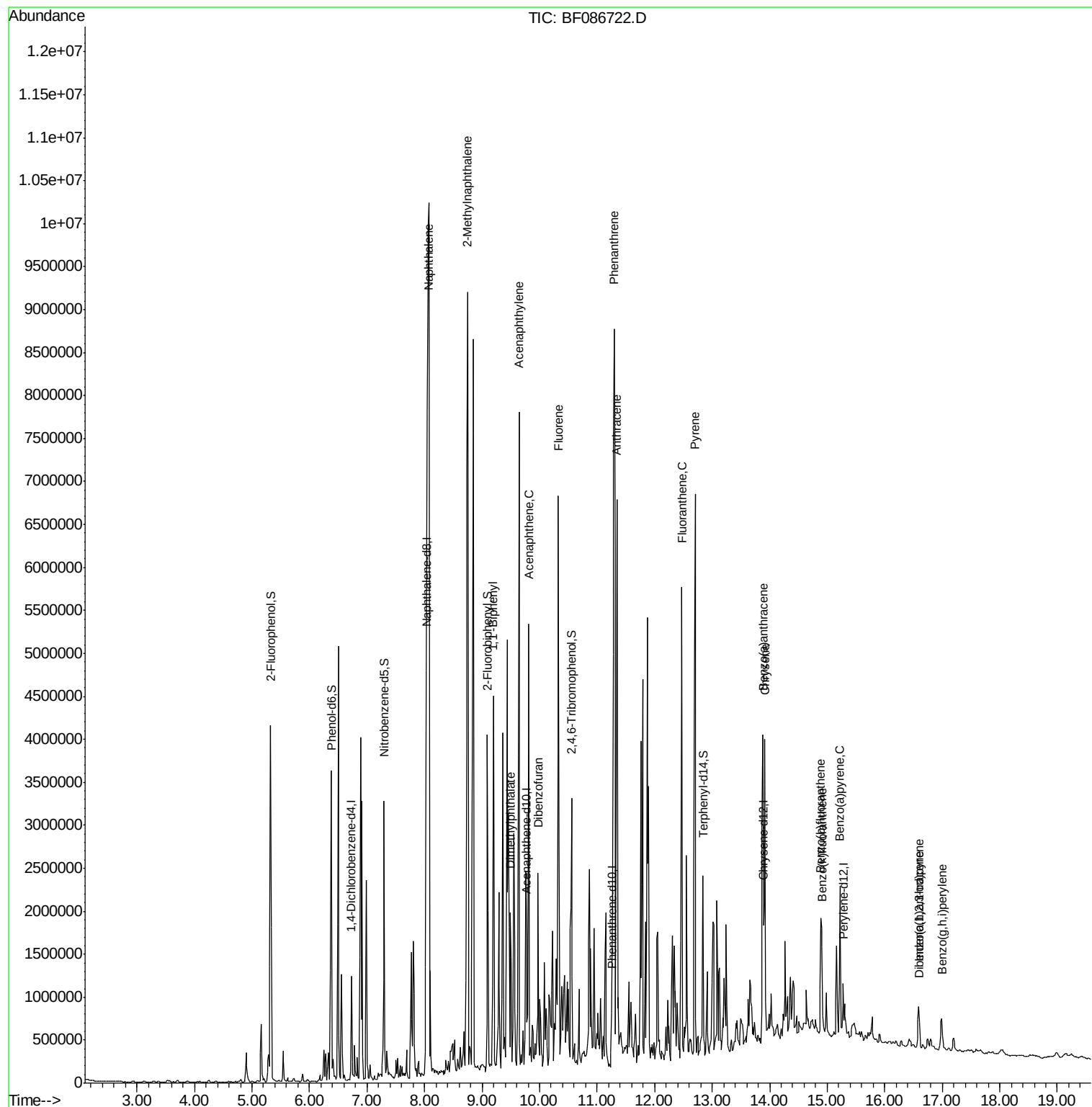
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050516\
Data File : BF086722.D
Acq On : 5 May 2016 23:12
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ALS Vial : 26 Sample Multiplier: 1

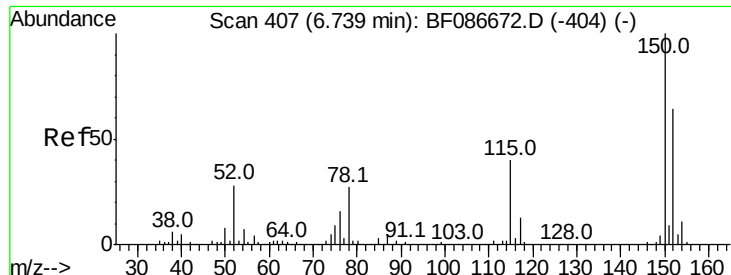
Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

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Quant Time: May 06 03:30:45 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 04 15:12:53 2016
Response via : Initial Calibration





#1

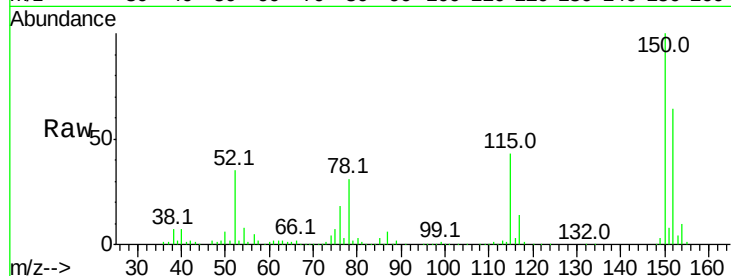
1,4-Dichlorobenzene-d4
Concen: 40.00 ng
RT: 6.73 min Scan# 406
Delta R.T. -0.01 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

Tot Ion	Ratio	Resp	Lower	Upper
152	100	164624		
150	156.9	125.8	188.6	
115	66.7	51.5	77.3	

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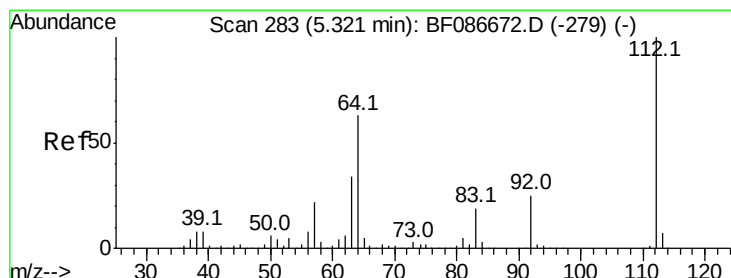
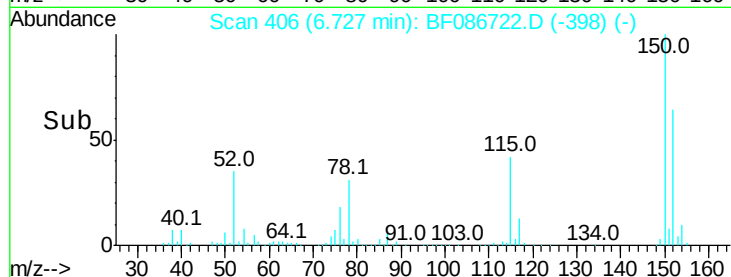
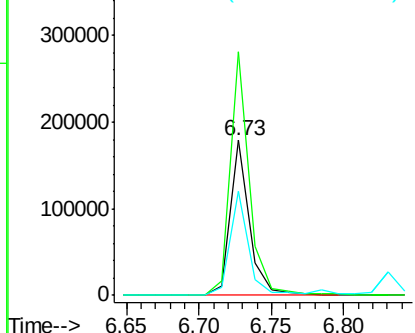


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

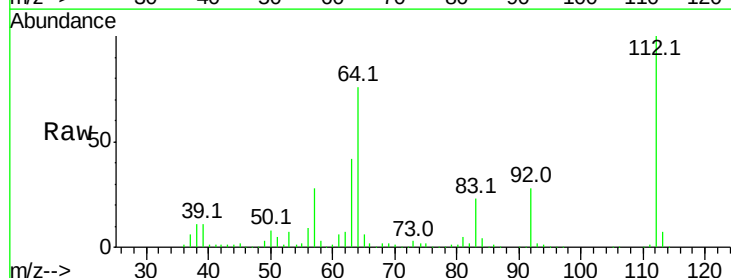
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 130.92 ng
RT: 5.32 min Scan# 283
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1301842		
64	76.2	52.1	78.1	
63	41.9	25.7	38.5	

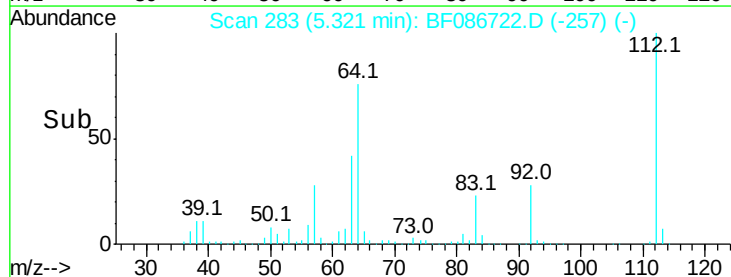
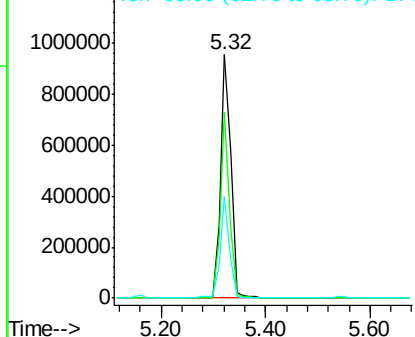


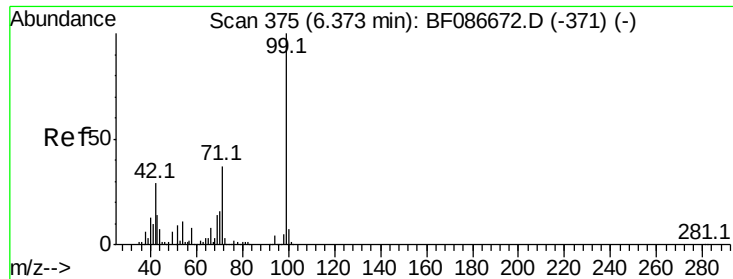
Abundance

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





#7

Phenol-d6

Concen: 138.65 ng

RT: 6.38 min Scan# 376

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMP

Tot Ion: 99 Resp: 1857251

Ion Ratio Lower Upper

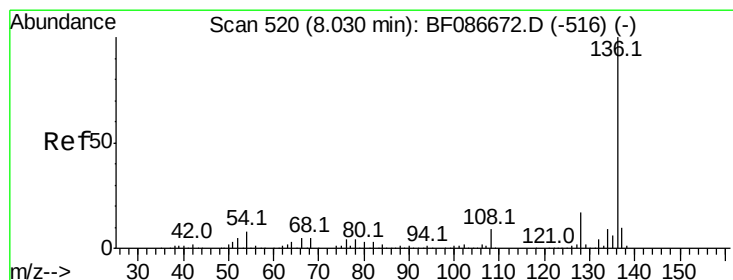
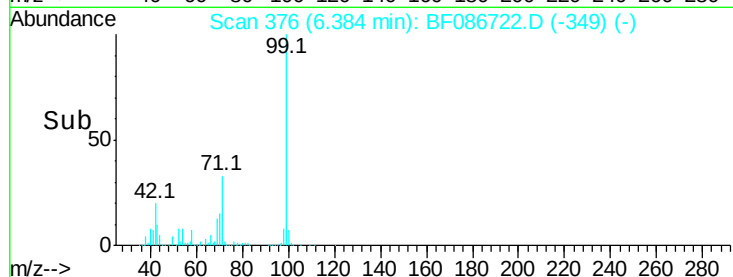
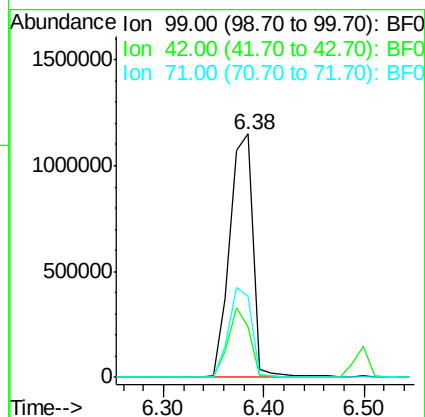
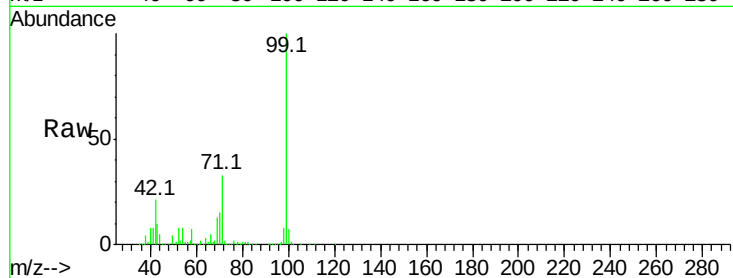
99 100

42 20.5 13.6 20.4#

71 33.1 24.6 36.8

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#21

Naphthalene-d8

Concen: 40.00 ng

RT: 8.03 min Scan# 520

Delta R.T. 0.00 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Tgt Ion: 136 Resp: 495053

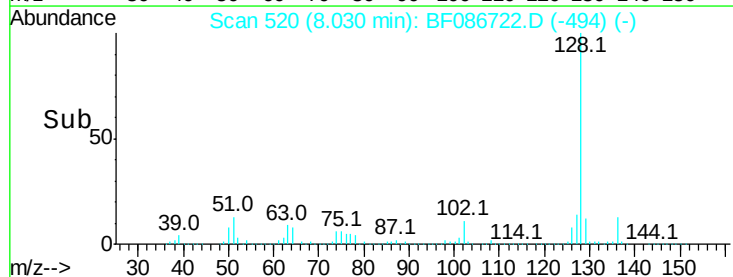
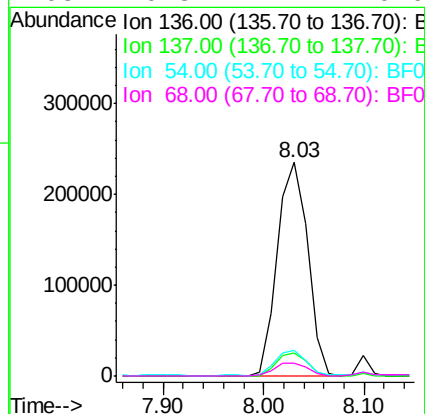
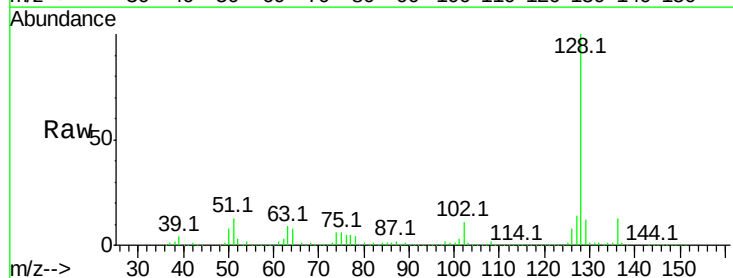
Ion Ratio Lower Upper

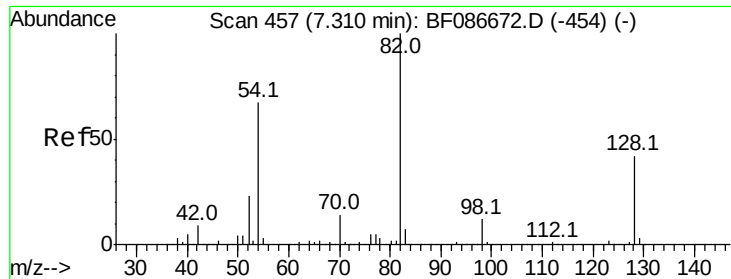
136 100

137 11.1 8.8 13.2

54 11.7 5.0 7.4#

68 6.3 4.4 6.6





#23
 Nitrobenzene-d5
 Concen: 111.21 ng
 RT: 7.30 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

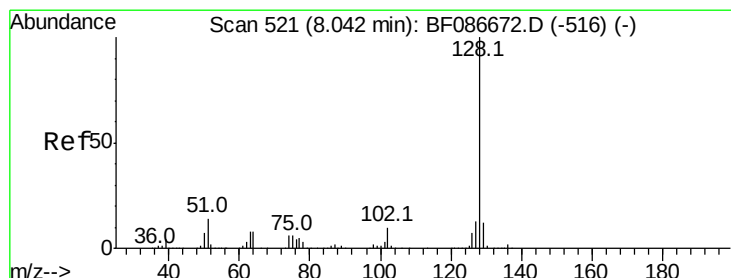
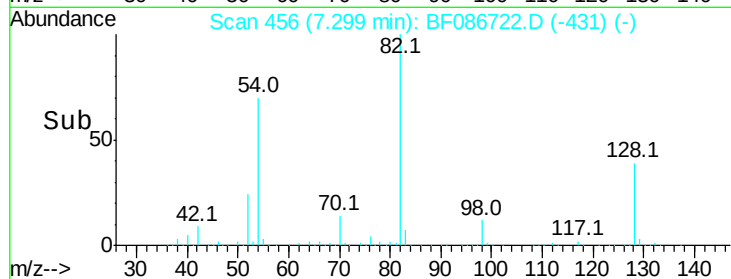
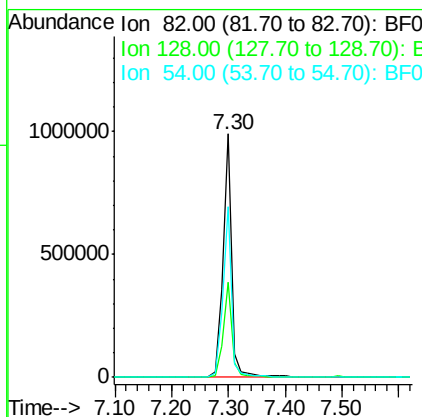
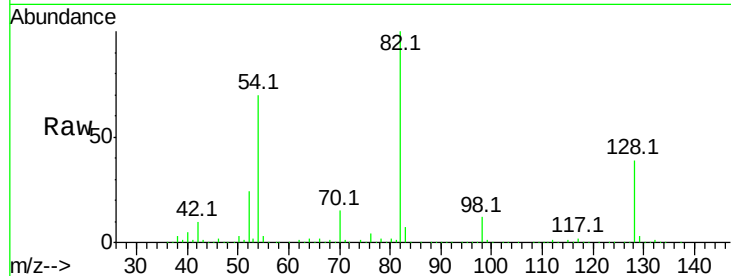
Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMP

Tot Ion: 82 Resp: 1071394

Ion	Ratio	Lower	Upper
82	100		
128	39.2	40.6	61.0#
54	69.9	38.1	57.1#

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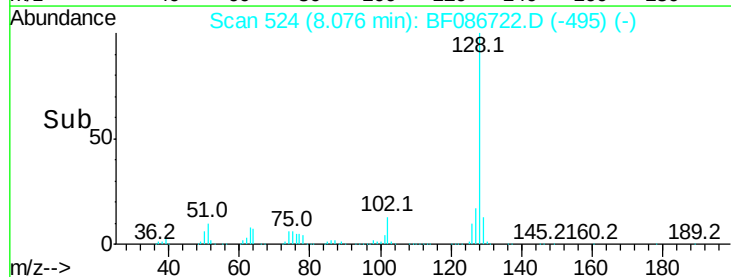
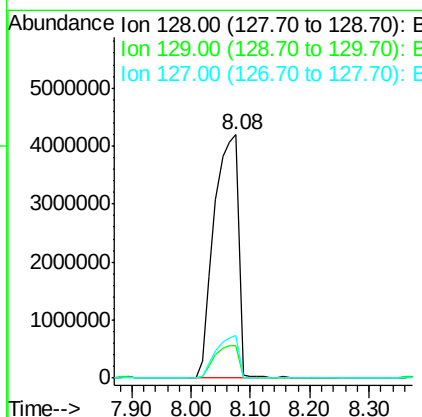
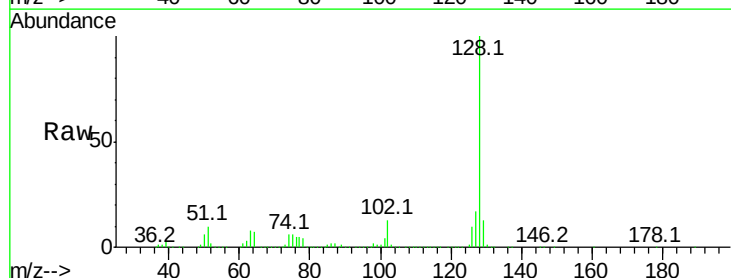
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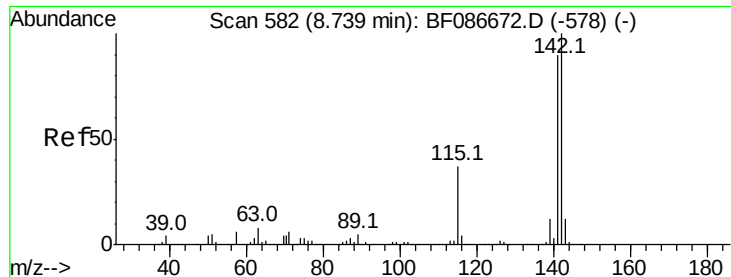


#31
 Naphthalene
 Concen: 472.39 ng
 RT: 8.08 min Scan# 524
 Delta R.T. 0.03 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Tgt Ion: 128 Resp: 11947797

Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.6	13.0#
127	17.4	10.8	16.2#





#37

2-Methylnaphthalene

Concen: 290.70 ng

RT: 8.75 min Scan# 583

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMP

Tot Ion:142 Resp: 4337843

Ion Ratio Lower Upper

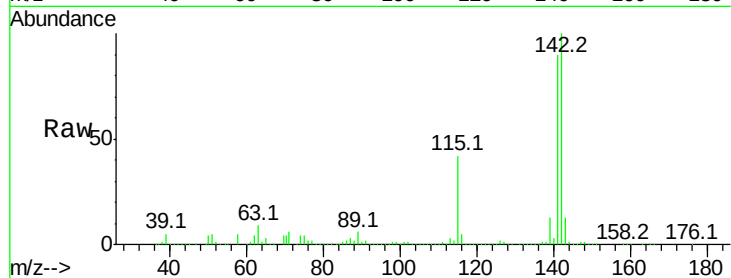
142 100

141 90.3 71.0 106.6

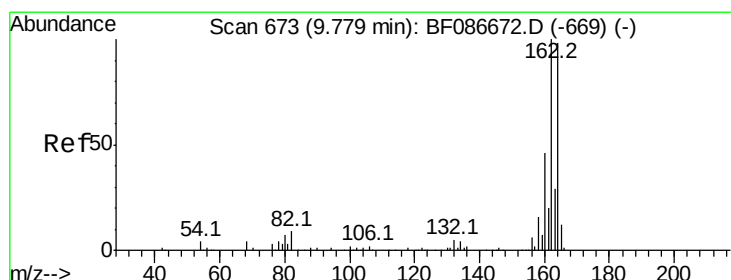
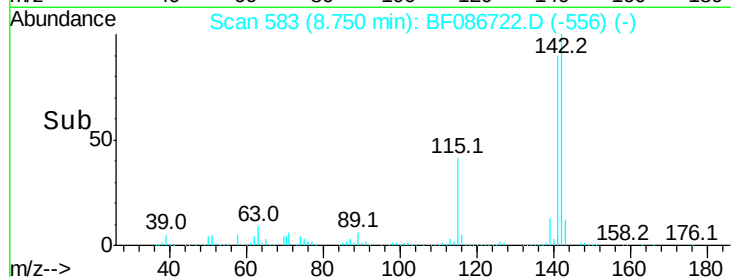
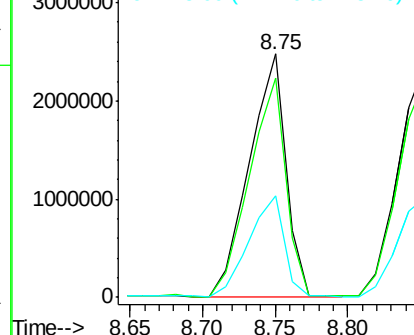
115 41.6 26.6 39.8#

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 40.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

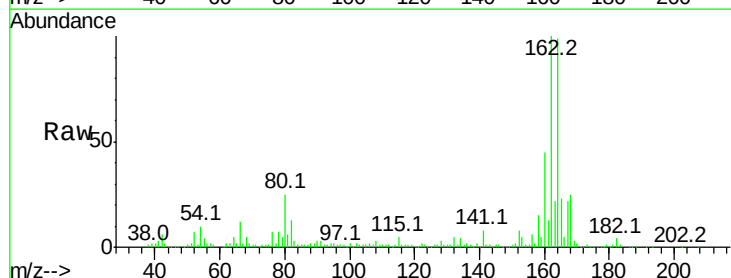
Tgt Ion:164 Resp: 265042

Ion Ratio Lower Upper

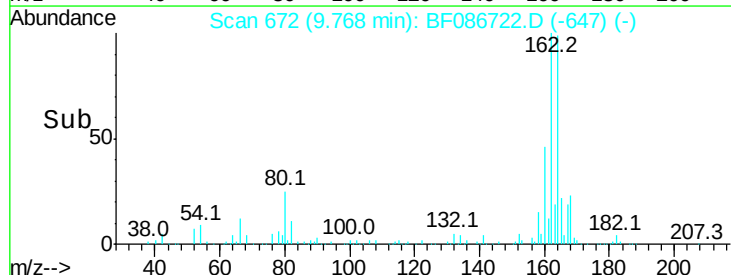
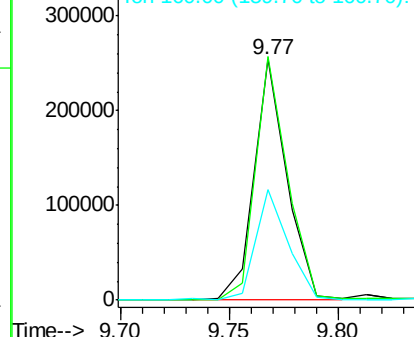
164 100

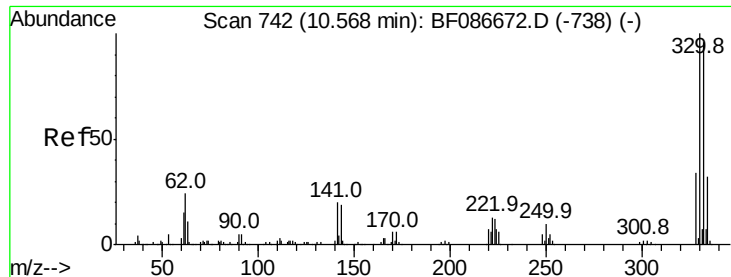
162 101.2 82.8 124.2

160 45.9 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





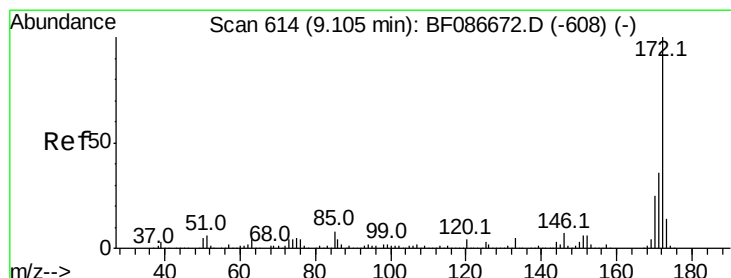
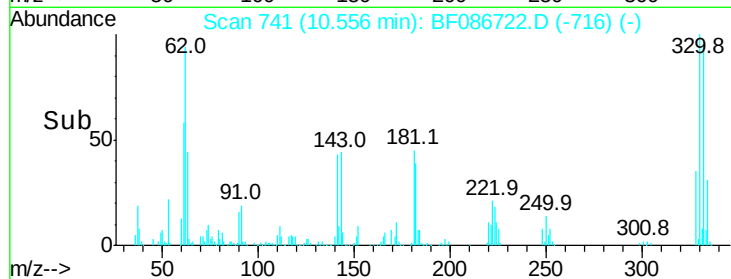
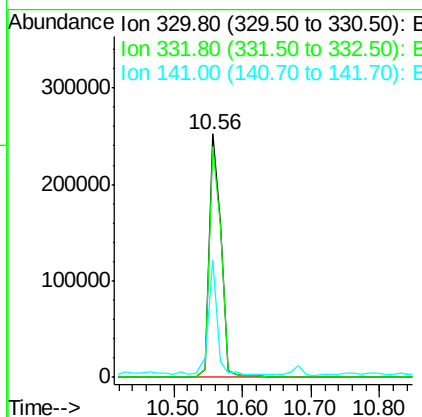
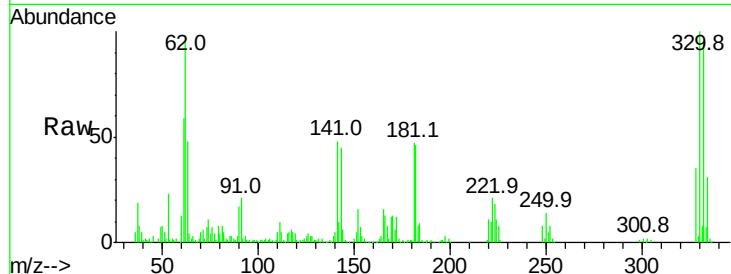
#41
 2,4,6-Tribromophenol
 Concen: 116.32 ng
 RT: 10.56 min Scan# 741
 Delta R.T. -0.01 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMP

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.4	79.0	118.4	
141	37.0	31.2	46.8	

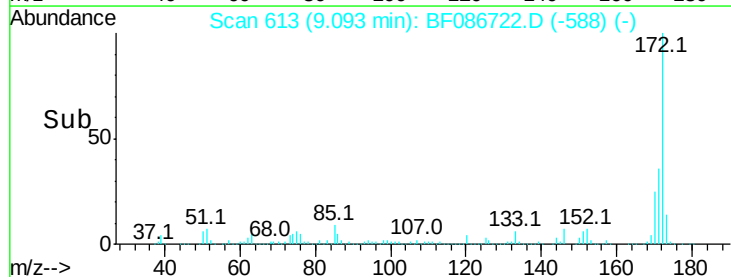
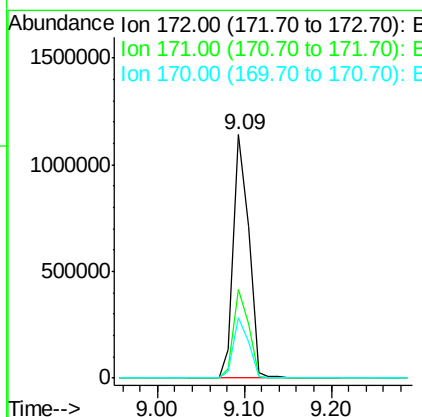
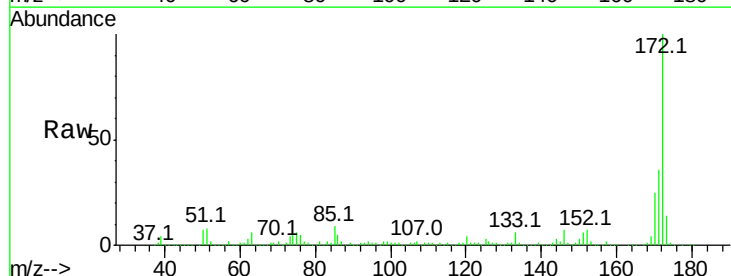
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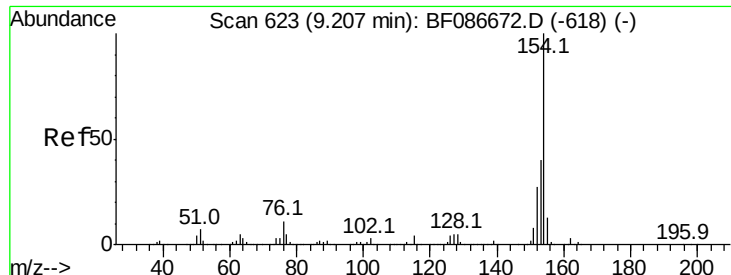
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#44
 2-Fluorobiphenyl
 Concen: 86.99 ng
 RT: 9.09 min Scan# 613
 Delta R.T. -0.01 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.3	29.0	43.6	
170	24.7	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 60.23 ng

RT: 9.20 min Scan# 622

Delta R.T. -0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMP

Tot Ion:154 Resp: 1305217

Ion Ratio Lower Upper

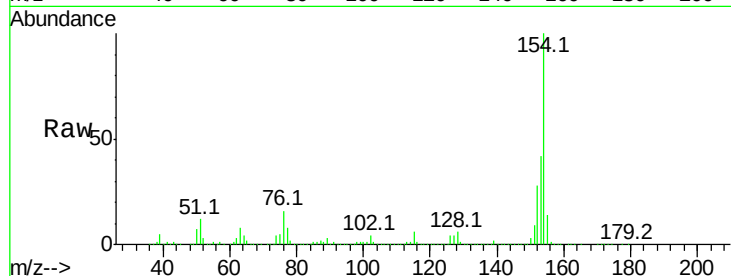
154 100

153 41.8 20.3 60.3

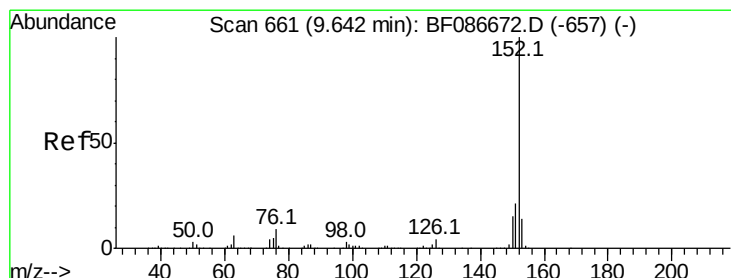
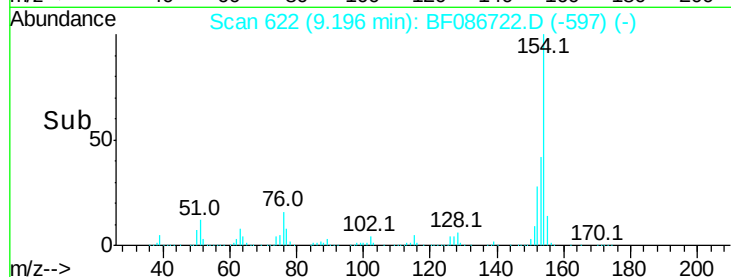
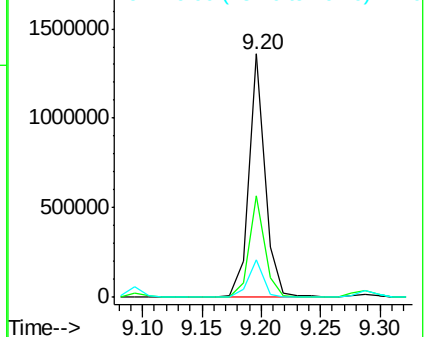
76 15.6 0.0 30.2

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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: 115.95 ng

RT: 9.64 min Scan# 661

Delta R.T. 0.00 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

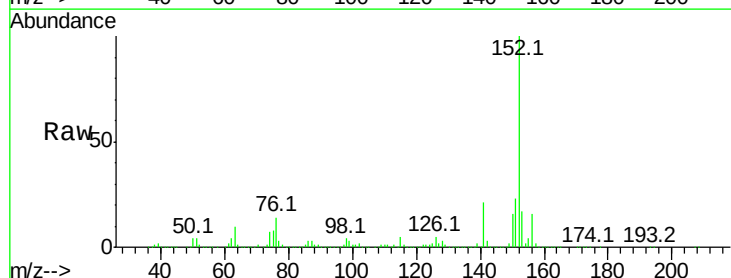
Tgt Ion:152 Resp: 2878272

Ion Ratio Lower Upper

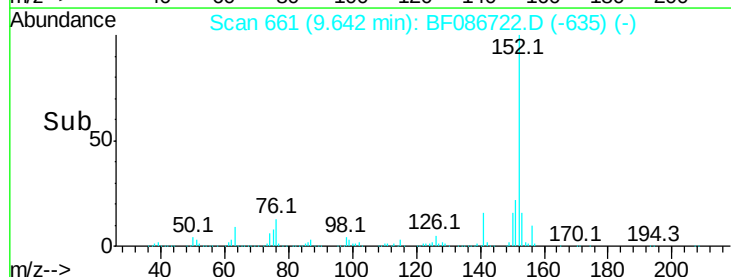
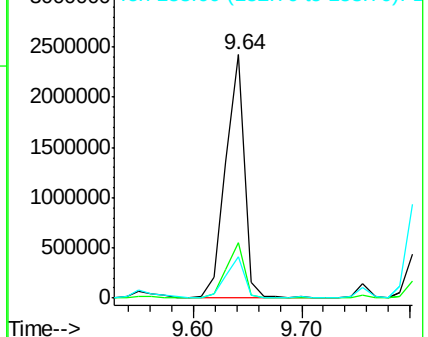
152 100

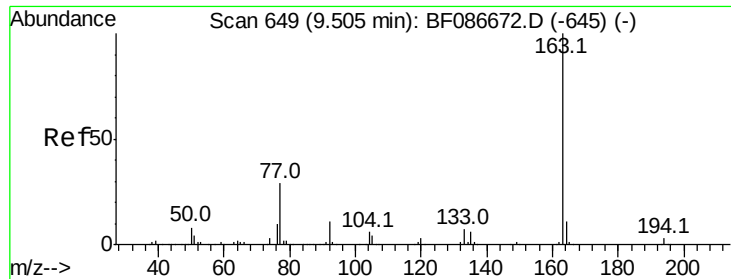
151 22.5 16.8 25.2

153 17.2 10.9 16.3#



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





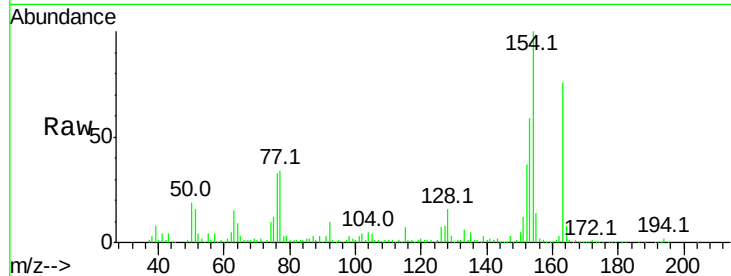
#49
Dimethylphthalate
Concen: 11.23 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

Tot Ion	Ratio	Resp	Lower	Upper
163	100	221971		
194	2.8		2.6	4.0
164	10.9		8.2	12.4

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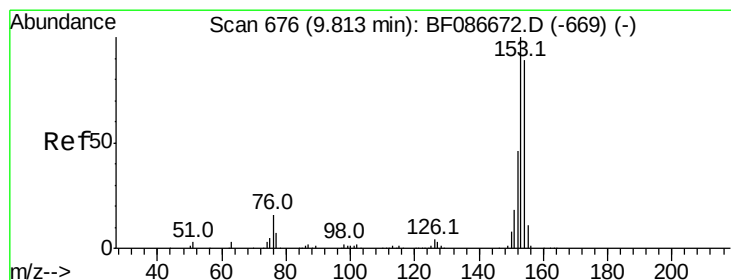
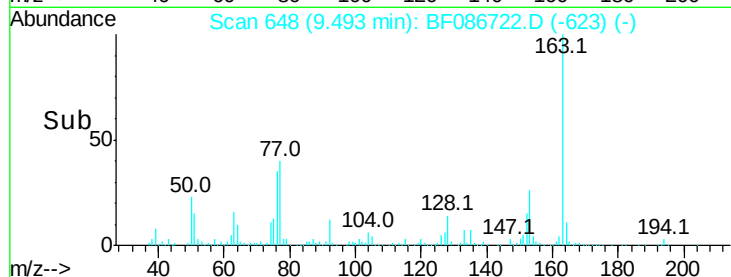
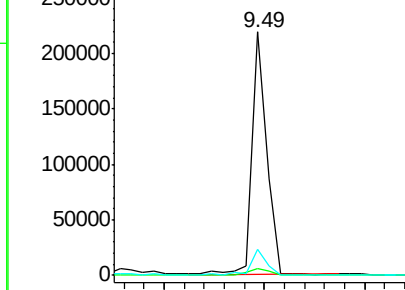


Abundance

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



#51
Acenaphthene
Concen: 87.11 ng
RT: 9.81 min Scan# 676
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

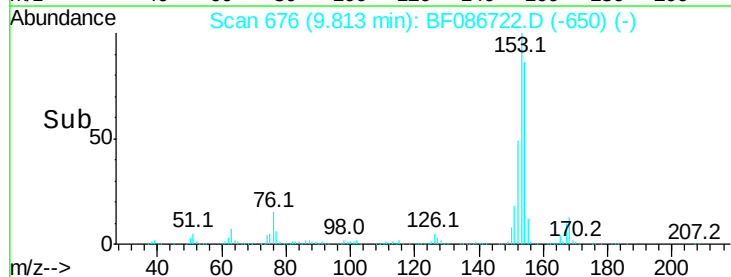
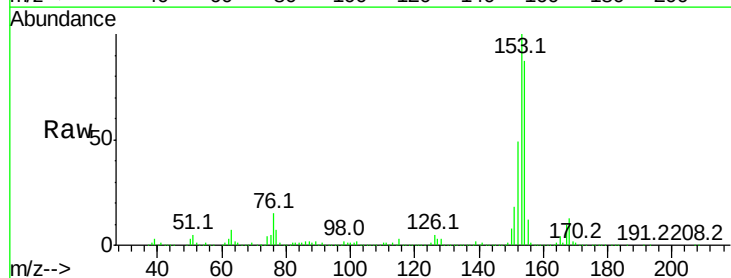
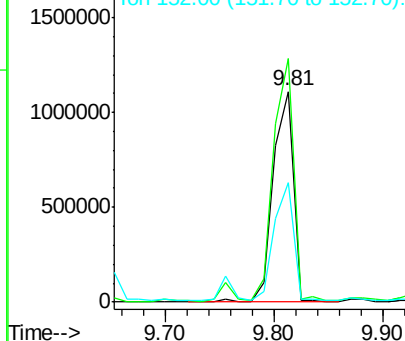
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	1426396		
153	115.4		89.8	134.6
152	56.7		43.4	65.0

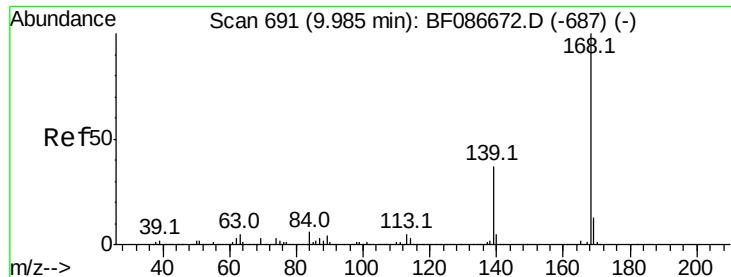
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 22.93 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

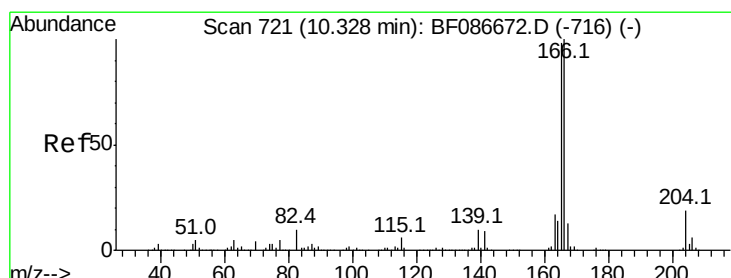
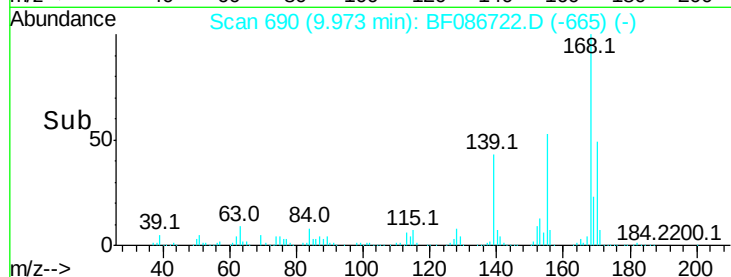
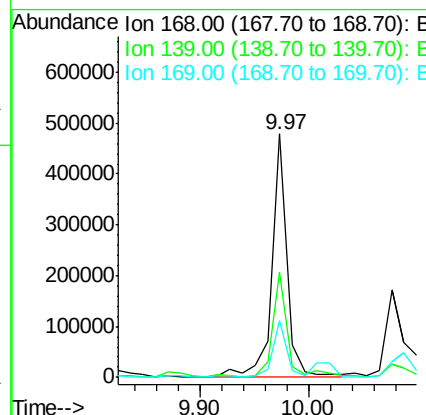
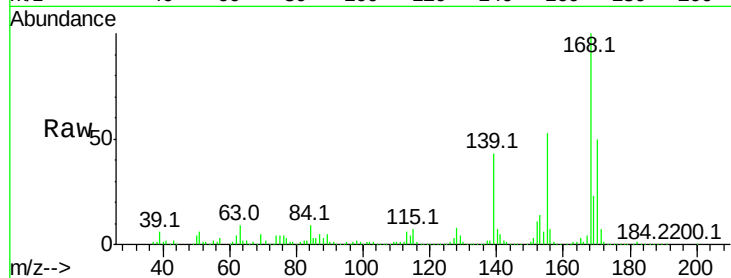
ClientSampleId :

TEC-B4COMP

Tot Ion:	168	Resp:	465291
Ion Ratio	Lower	Upper	
168	100		
139	43.3	31.4	47.0
169	23.3	10.7	16.1#

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#57

Fluorene

Concen: 175.69 ng

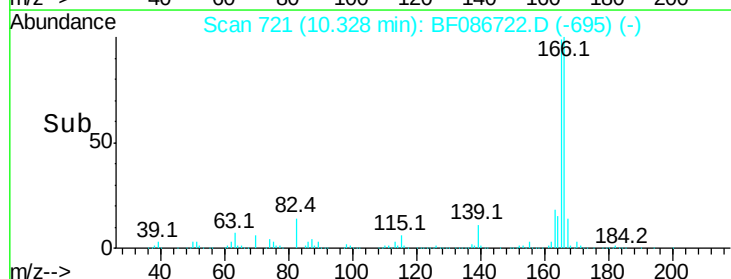
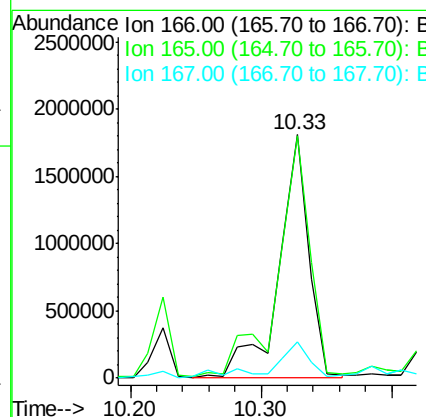
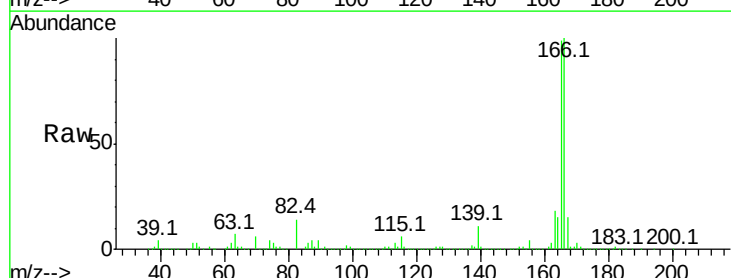
RT: 10.33 min Scan# 721

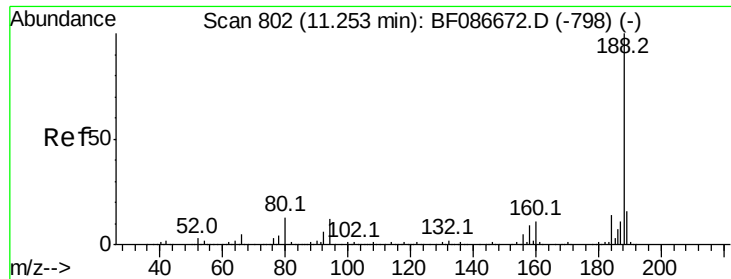
Delta R.T. 0.00 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Tgt Ion:	166	Resp:	2889883
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.0	118.6
167	15.1	10.6	15.8





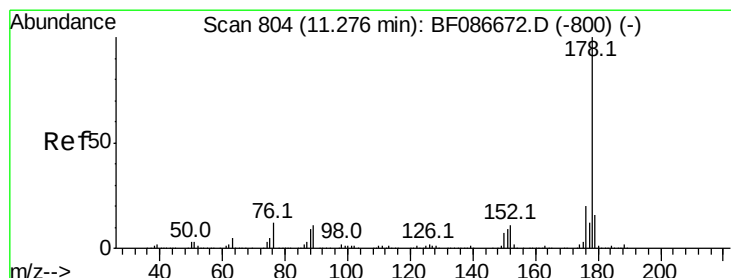
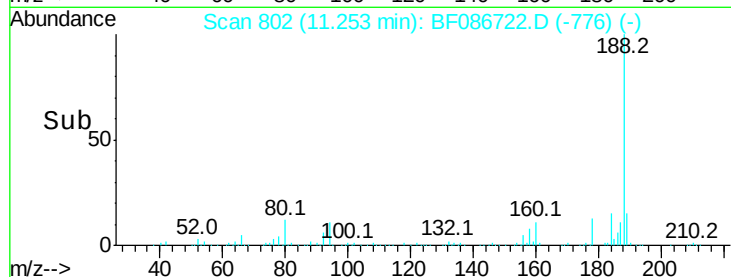
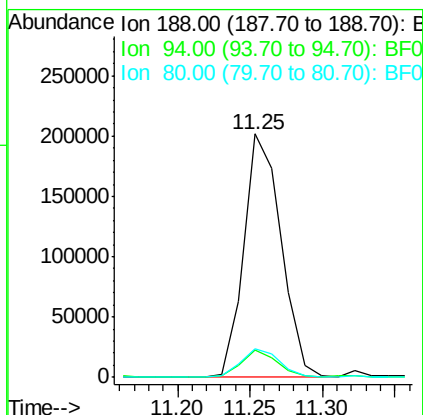
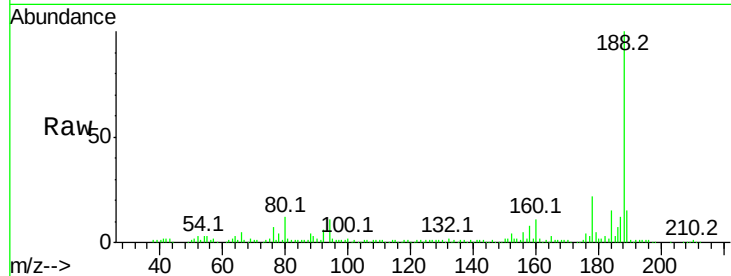
#63
 Phenanthrene-d10
 Concen: 40.00 ng
 RT: 11.25 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMP

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.2	6.8	10.2#	
80	11.9	7.1	10.7#	

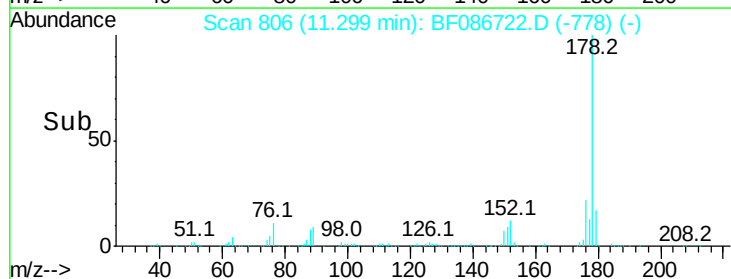
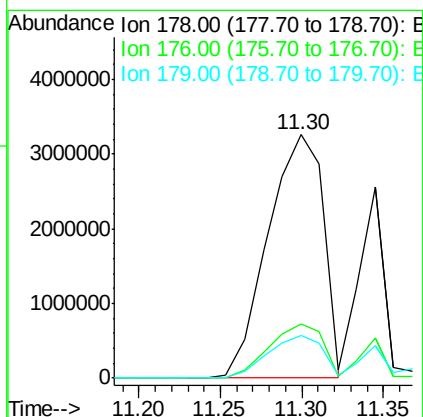
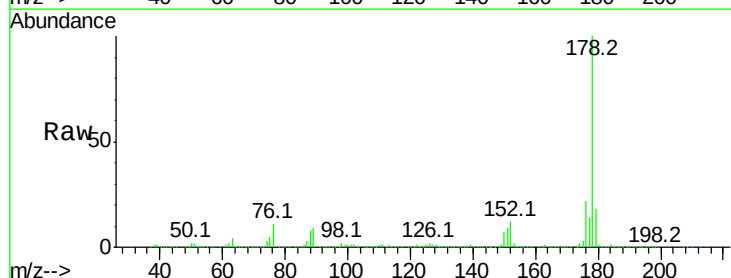
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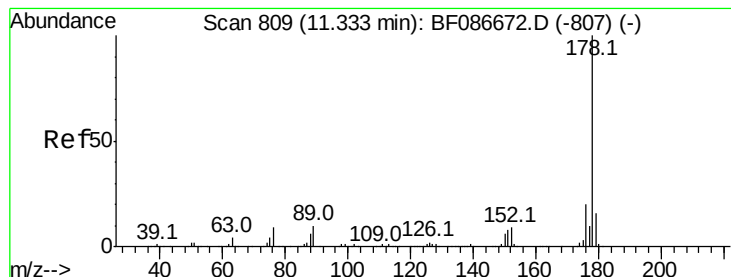
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#70
 Phenanthrene
 Concen: 398.79 ng
 RT: 11.30 min Scan# 806
 Delta R.T. 0.02 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	22.2	16.0	24.0	
179	17.5	12.6	18.8	





#71

Anthracene

Concen: 136.50 ng/mL

RT: 11.34 min Scan# 810

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMP

Tot Ion:178 Resp: 2754041

Ion Ratio Lower Upper

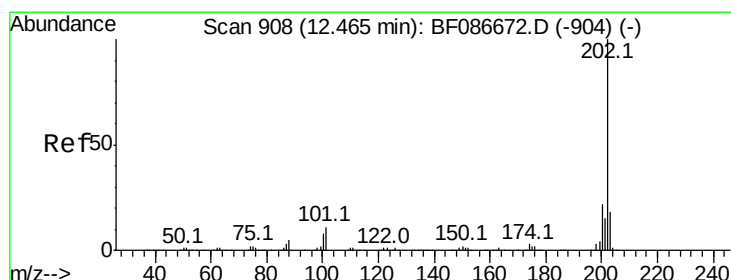
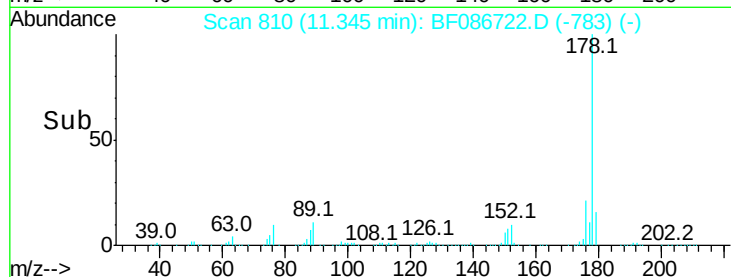
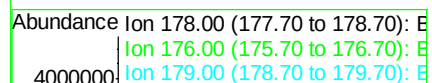
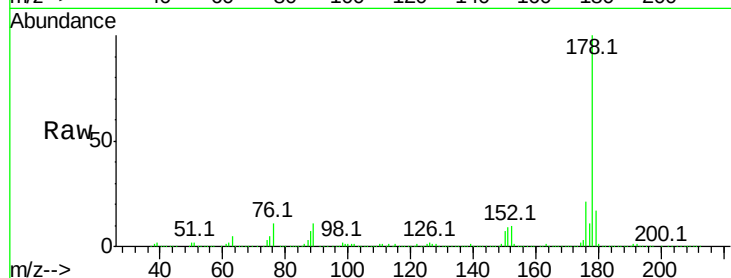
178 100

176 20.9 15.6 23.4

179 17.1 12.7 19.1

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#74

Fluoranthene

Concen: 164.96 ng/mL

RT: 12.48 min Scan# 909

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

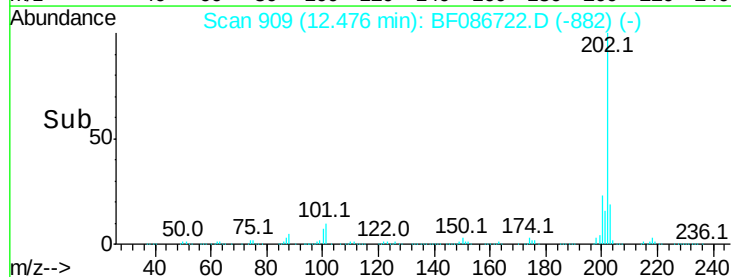
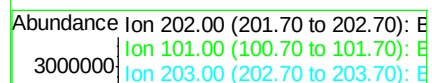
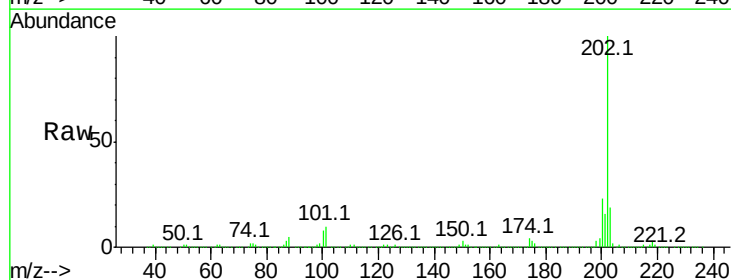
Tgt Ion:202 Resp: 3185188

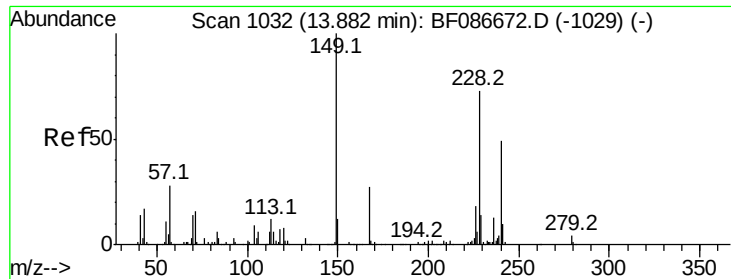
Ion Ratio Lower Upper

202 100

101 10.1 0.0 35.4

203 19.0 0.0 38.1





#75

Chrysene-d12

Concen: 40.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

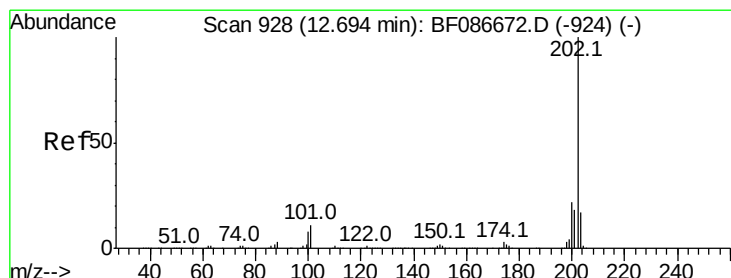
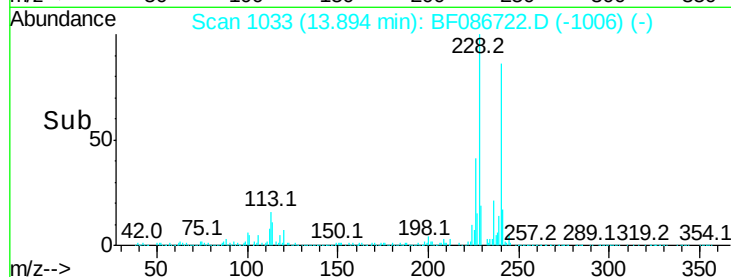
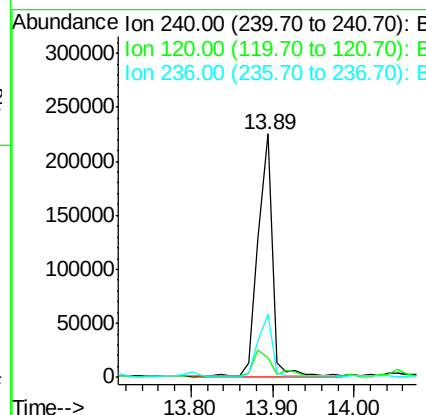
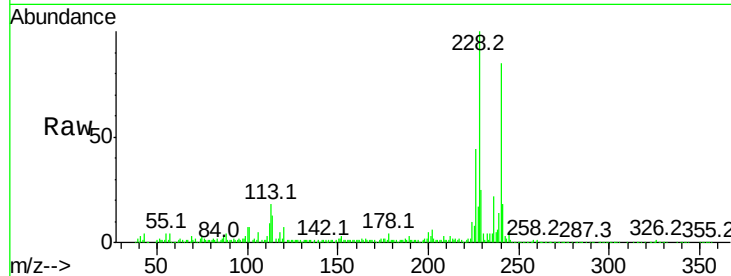
ClientSampleId :

TEC-B4COMP

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.0	11.2	16.8#
236	25.7	21.2	31.8

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#77

Pyrene

Concen: 168.58 ng

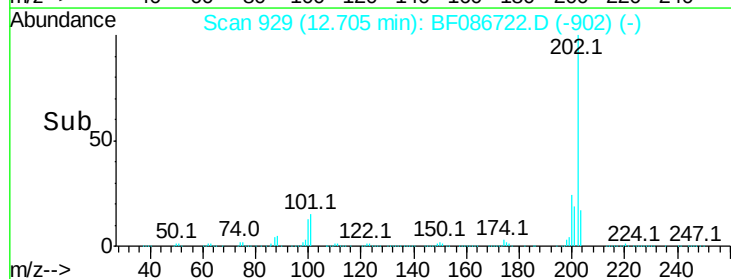
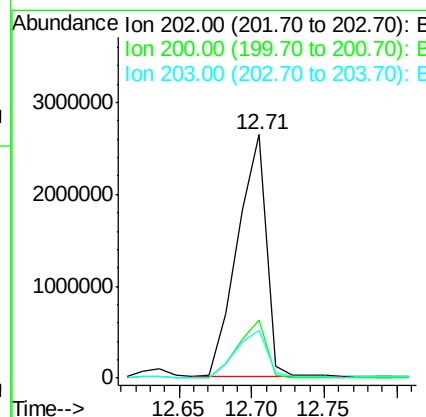
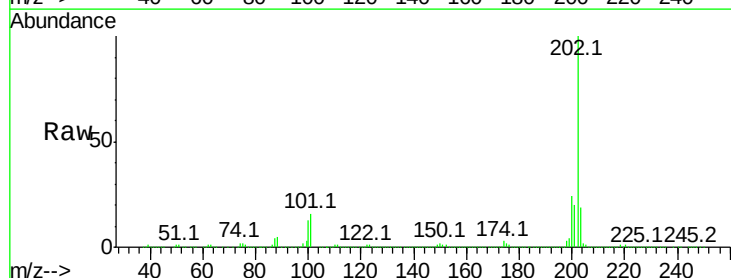
RT: 12.71 min Scan# 929

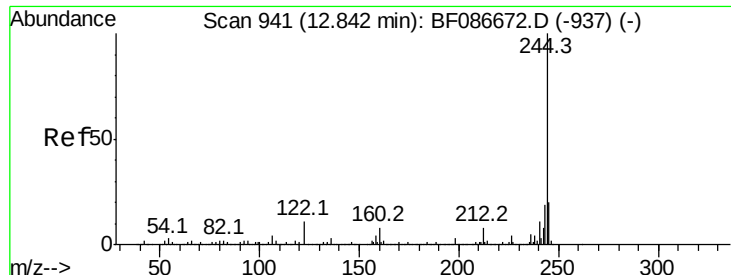
Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.9	17.7	26.5
203	19.4	14.2	21.4





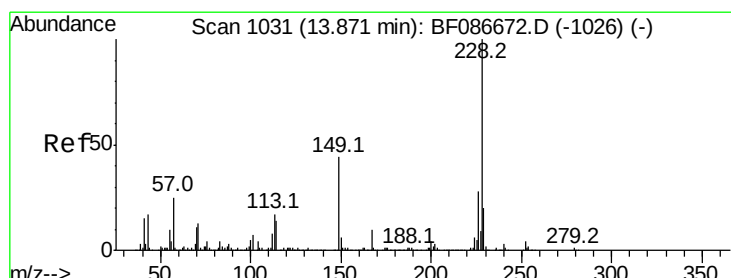
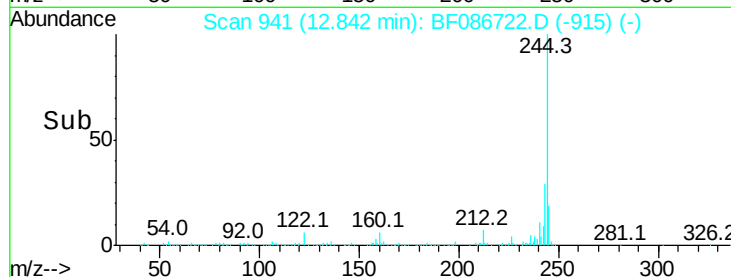
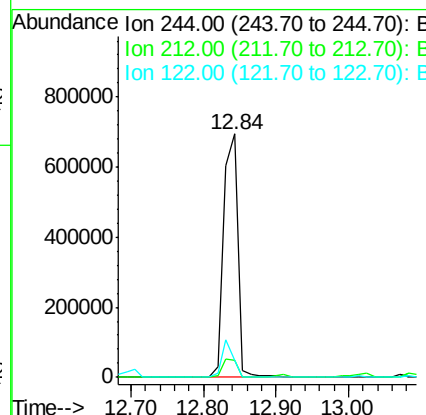
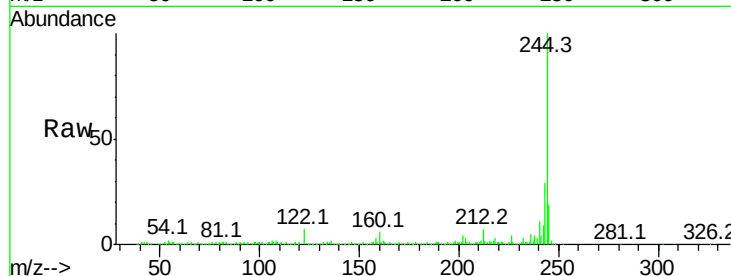
#78
 Terphenyl-d14
 Concen: 70.30 ng
 RT: 12.84 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMP

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.2	9.2
122	6.8	12.0	18.0

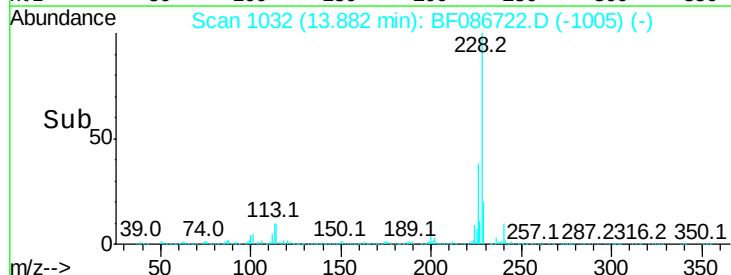
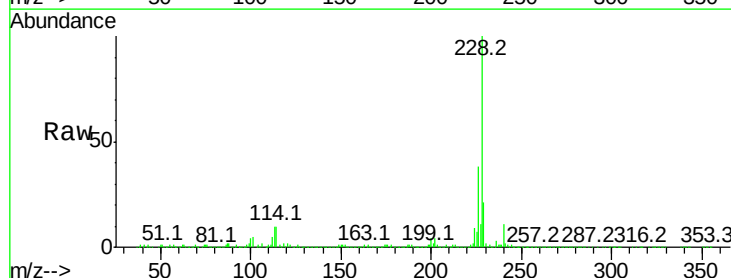
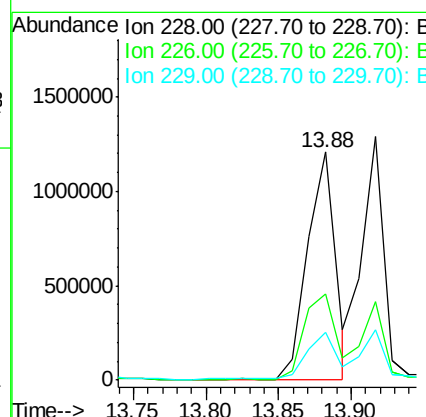
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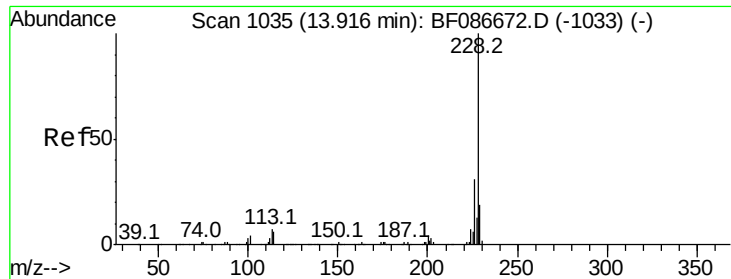
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#80
 Benzo(a)anthracene
 Concen: 104.61 ng
 RT: 13.88 min Scan# 1032
 Delta R.T. 0.01 min
 Lab File: BF086722.D
 Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.1	22.5	33.7
229	20.8	16.6	25.0





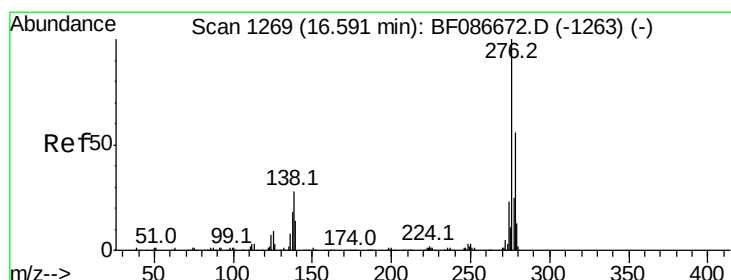
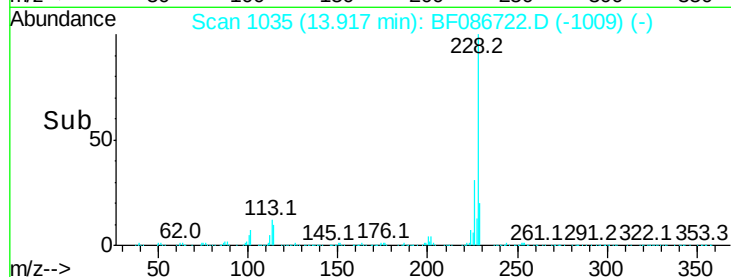
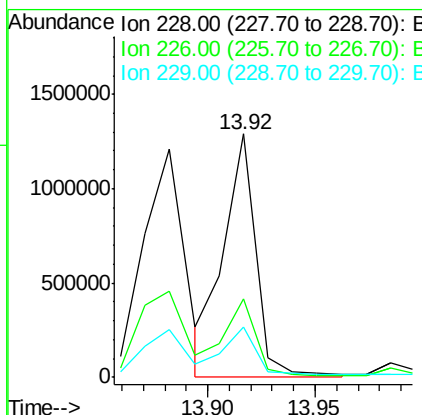
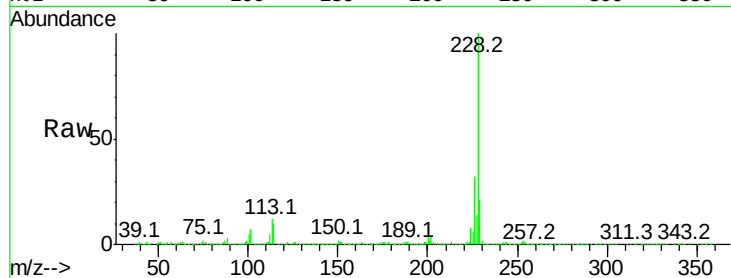
#82
Chrysene
Concen: 83.50 ng/ml
RT: 13.92 min Scan# 1035
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.4	36.6
229	20.9	15.8	23.8

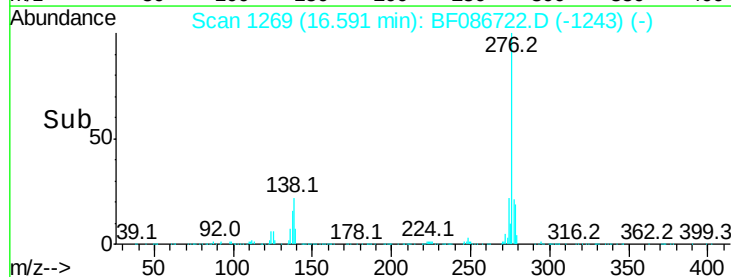
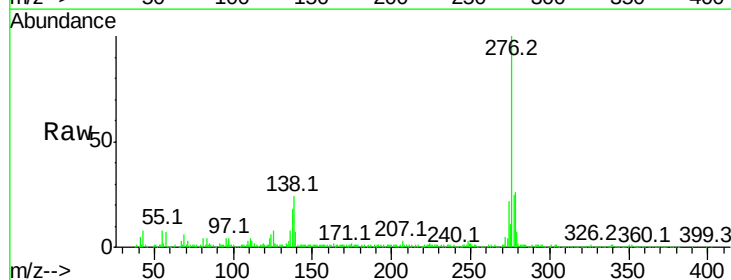
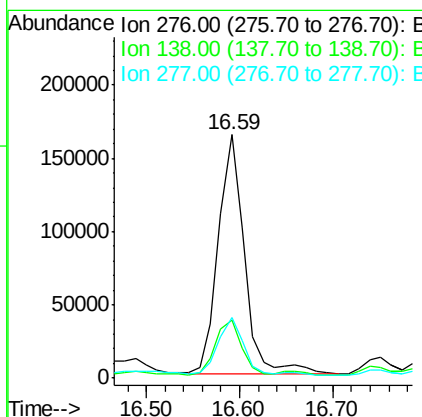
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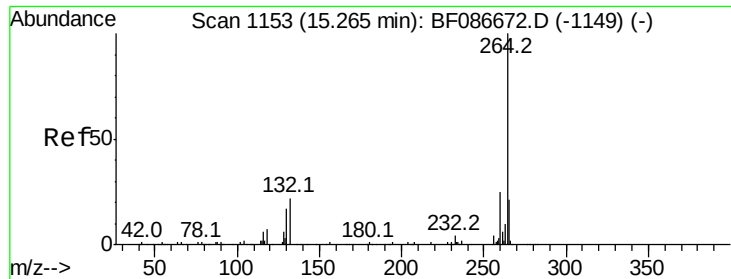
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#85
Indeno(1,2,3-cd)pyrene
Concen: 22.55 ng/ml
RT: 16.59 min Scan# 1269
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.6	25.6	38.4#
277	23.1	20.5	30.7





#86

Pervlene-d12

Concen: 40.00 ng

RT: 15.28 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Instrument :

BNA_F

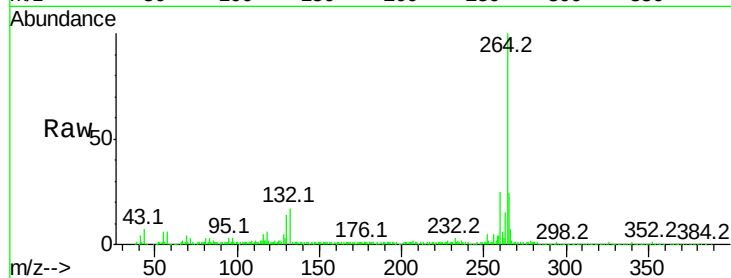
ClientSampleId :

TEC-B4COMP

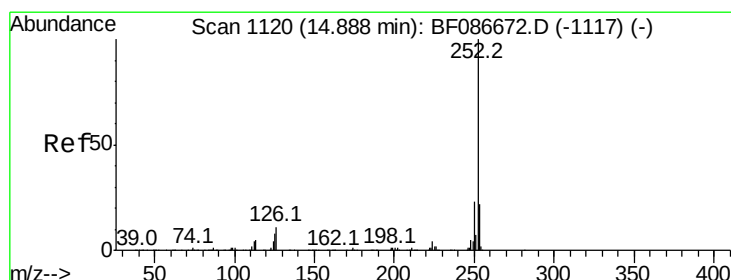
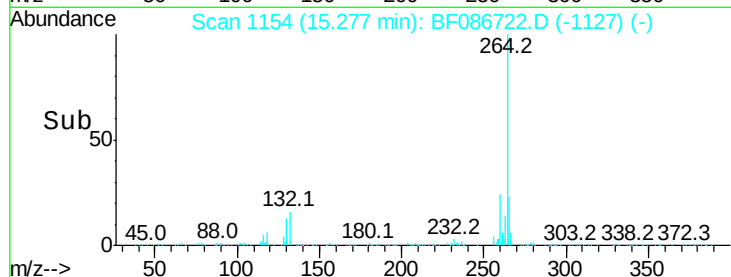
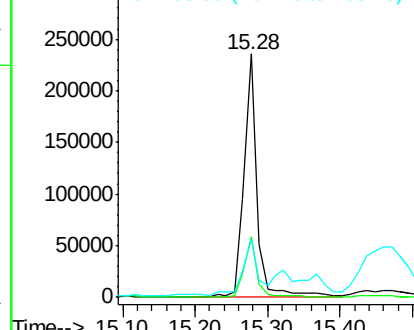
Tot Ion:	264	Resp:	292044
Ion Ratio	Lower	Upper	
264	100		
260	24.8	19.5	29.3
265	24.0	17.3	25.9

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 65.44 ng m

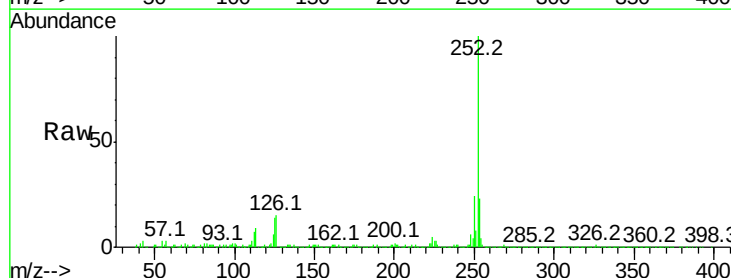
RT: 14.89 min Scan# 1120

Delta R.T. 0.00 min

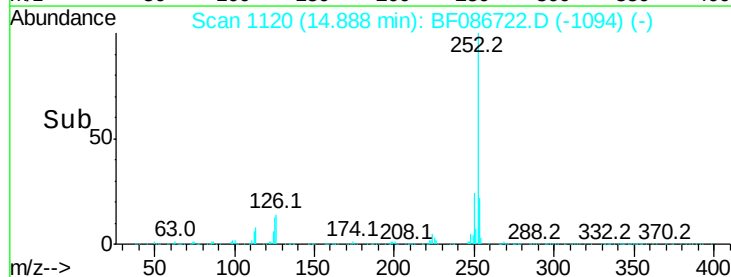
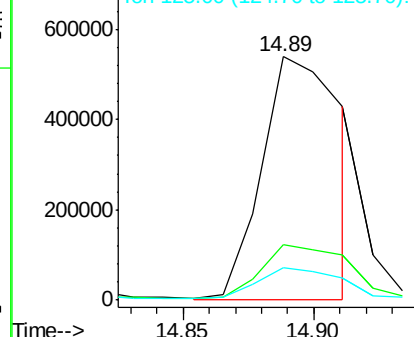
Lab File: BF086722.D

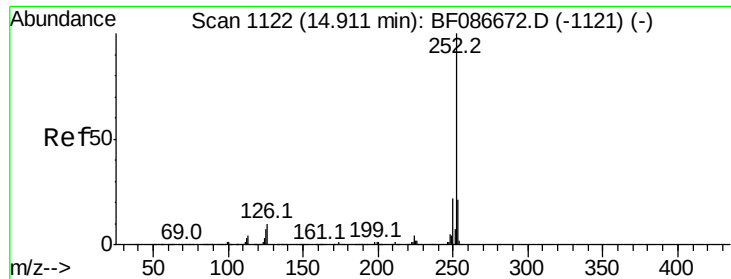
Acq: 5 May 2016 23:12

Tgt Ion:	252	Resp:	1148380
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.6
125	13.5	11.4	17.0



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: 5.54 ng m

RT: 14.91 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BF086722.D

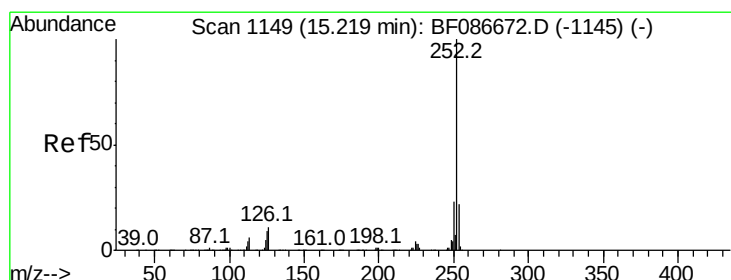
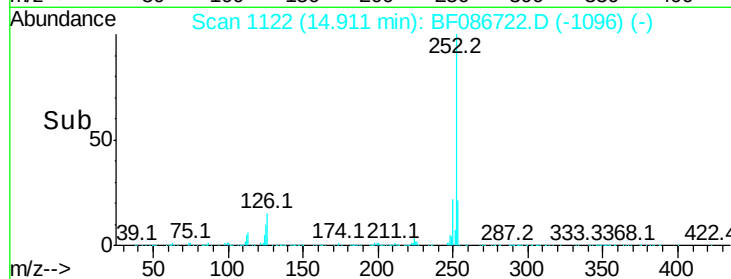
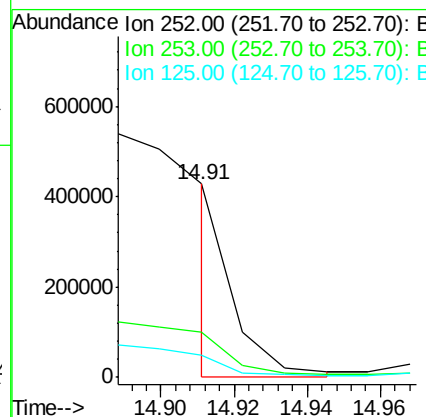
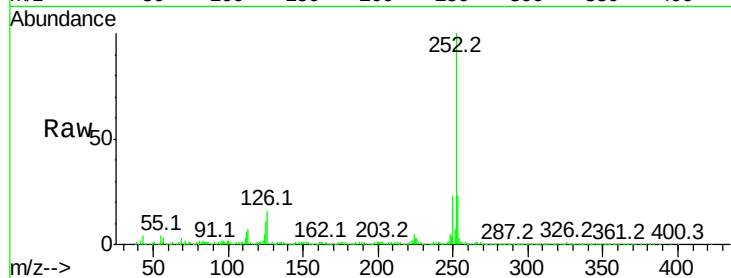
Acq: 5 May 2016 23:12

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

Tot Ion:	252	Resp:	91608
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.8	26.6
125	11.2	9.1	13.7

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#89

Benzo(a)pyrene

Concen: 61.20 ng

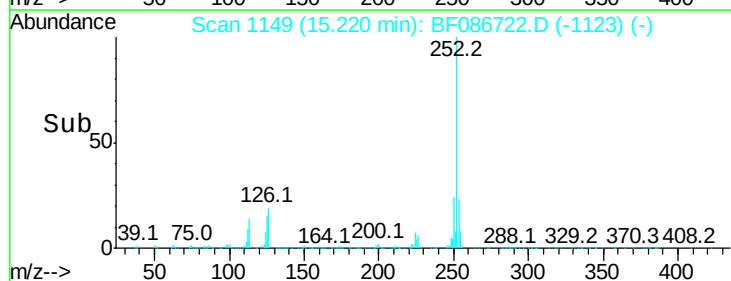
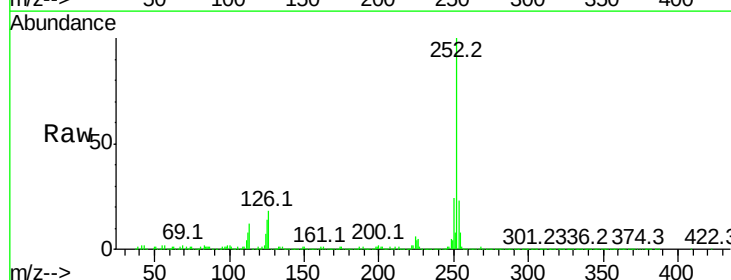
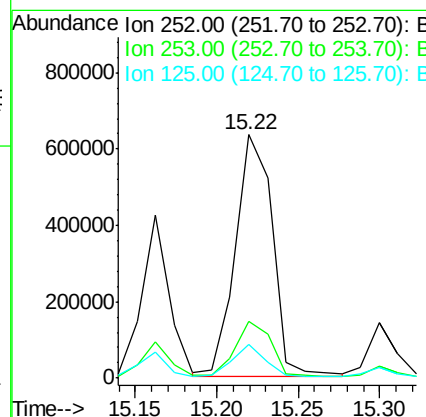
RT: 15.22 min Scan# 1149

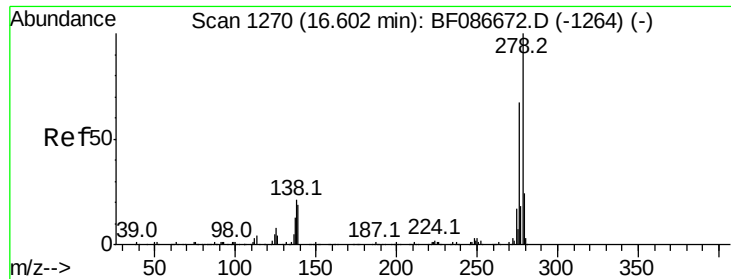
Delta R.T. 0.00 min

Lab File: BF086722.D

Acq: 5 May 2016 23:12

Tgt Ion:	252	Resp:	989179
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.2	25.8
125	13.9	9.0	13.6#





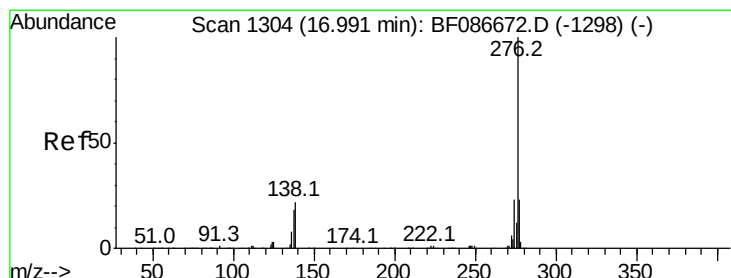
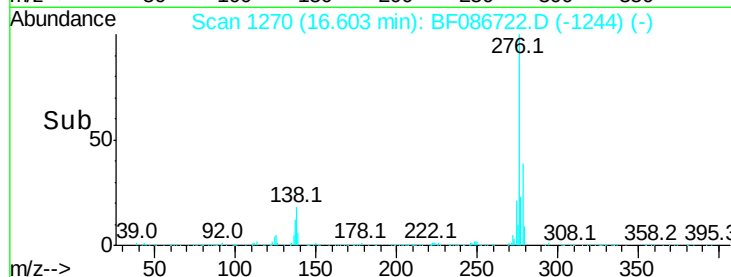
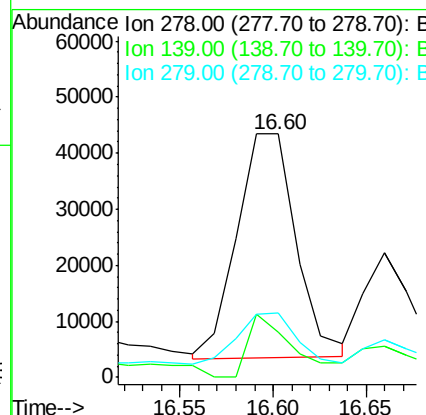
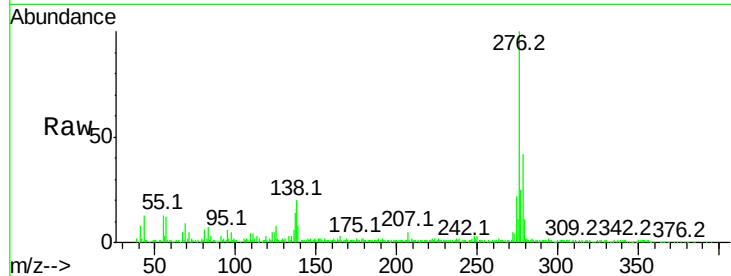
#90
Dibenzo(a,h)anthracene
Concen: 5.66 ng
RT: 16.60 min Scan# 1270
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMP

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.7	16.6	24.8
279	26.4	19.6	29.4

Manual Integrations
APPROVED

umangi
5/6/2016 7:11:48 PM



#91
Benzo(g,h,i)perylene
Concen: 19.71 ng m
RT: 16.99 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF086722.D
Acq: 5 May 2016 23:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.6	29.4
138	21.2	23.6	35.4#

