

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
 Data File : BF086879.D
 Acq On : 11 May 2016 4:14
 Operator : UM/SJ
 Sample : H2762-04DL3 200X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMPDL3

Manual Integrations
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Quant Time: May 11 15:01:43 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	164413	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	600079	20.00	ng	-0.01
38) Acenaphthene-d10	9.72	164	264186	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	408868	20.00	ng	-0.01
75) Chrysene-d12	13.83	240	344604	20.00	ng	-0.01
86) Perylene-d12	15.20	264	300172	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	51573	5.31	ng	0.00
7) Phenol-d6	6.35	99	65441	5.04	ng	-0.01
23) Nitrobenzene-d5	7.25	82	48280	4.04	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	8630	3.09	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	88244	5.61	ng	-0.01
78) Terphenyl-d14	12.77	244	58579	3.61	ng	-0.02
Target Compounds						
31) Naphthalene	8.01	128	6515261	216.77	ng	Qvalue # 94
37) 2-Methylnaphthalene	8.68	142	780096m	44.40	ng	
45) 1,1'-Biphenyl	9.15	154	155221	7.39	ng	99
48) Acenaphthylene	9.58	152	444950	18.37	ng	97
51) Acenaphthene	9.76	154	219363	14.56	ng	99
54) Dibenzofuran	9.93	168	41488	2.15	ng	# 86
57) Fluorene	10.26	166	250635m	15.20	ng	
70) Phenanthrene	11.22	178	869055	39.83	ng	100
71) Anthracene	11.28	178	281307	12.61	ng	98
74) Fluoranthene	12.41	202	358417	15.97	ng	91
77) Pyrene	12.62	202	503277	19.08	ng	99
80) Benzo(a)anthracene	13.81	228	183562m	9.49	ng	
82) Chrysene	13.85	228	120045	6.10	ng	97
85) Indeno(1,2,3-cd)pyrene	16.49	276	45819	2.80	ng	# 87
87) Benzo(b)fluoranthene	14.82	252	98245m	5.04	ng	
88) Benzo(k)fluoranthene	14.83	252	42663m	2.67	ng	
89) Benzo(a)pyrene	15.14	252	116128	6.90	ng	97
91) Benzo(g,h,i)perylene	16.87	276	52950m	3.67	ng	

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

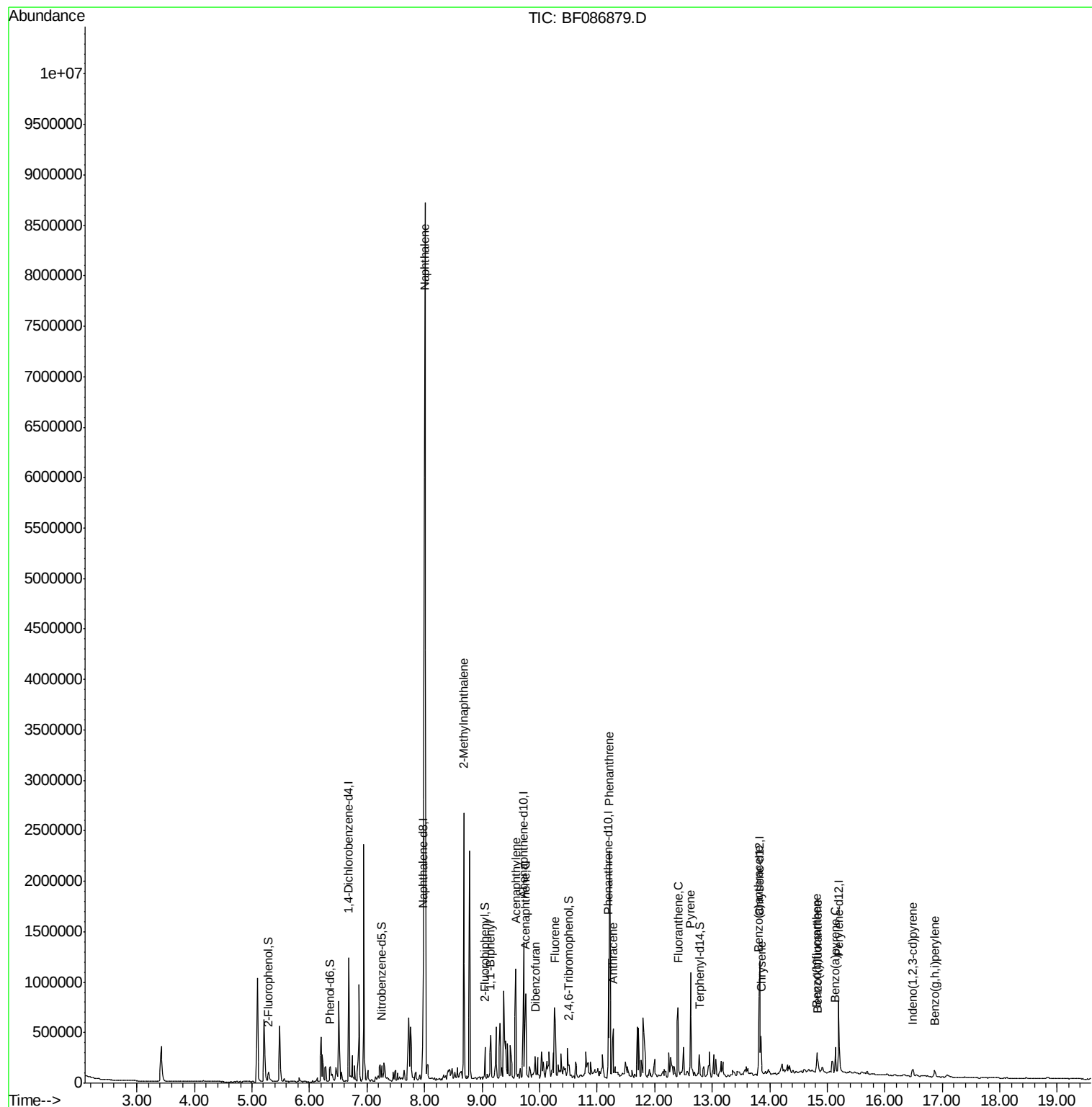
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
Data File : BF086879.D
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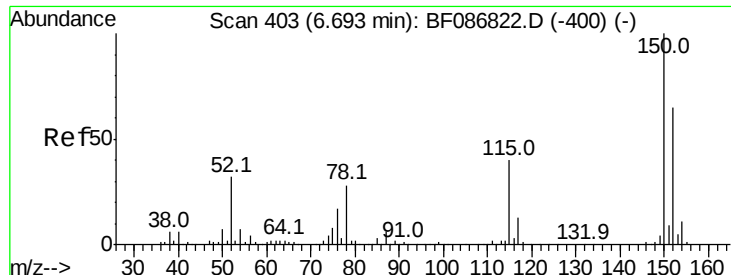
Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

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Quant Time: May 11 15:01:43 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

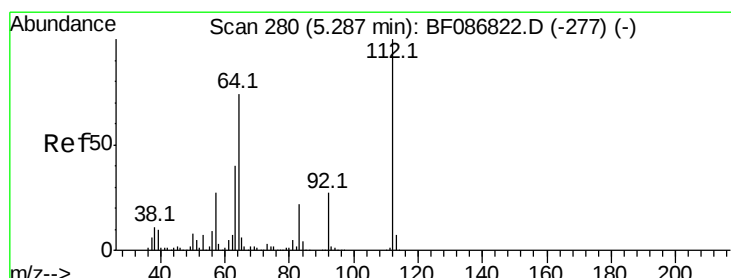
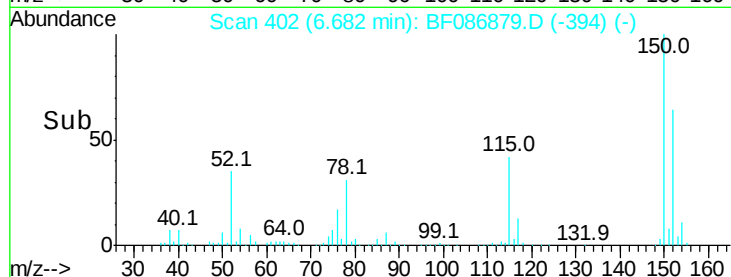
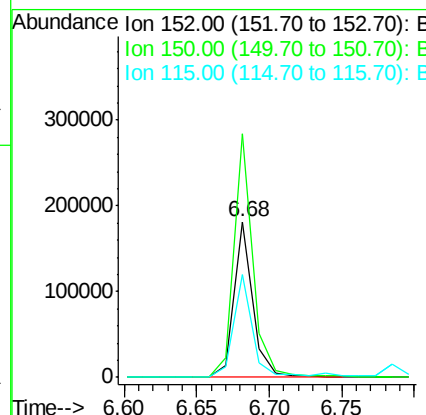
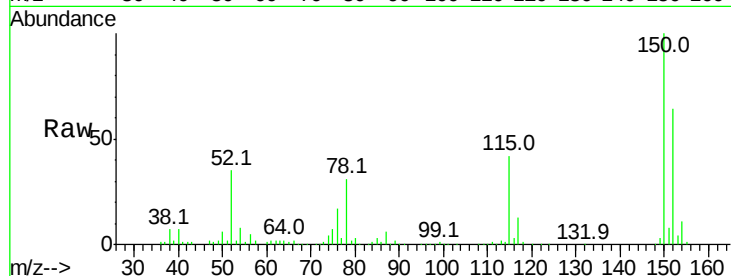
ClientSampleId :

TEC-B3COMPDL3

Tot Ion:	152	Resp:	164413
Ion Ratio	Lower	Upper	
152	100		
150	156.6	125.8	188.6
115	66.4	51.5	77.3

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#5

2-Fluorophenol

Concen: 5.31 ng

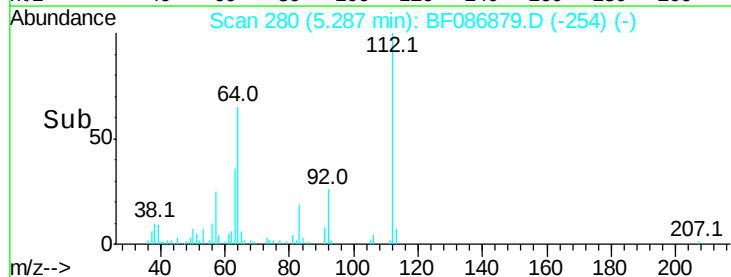
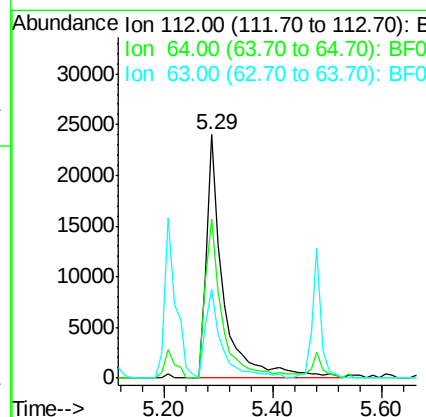
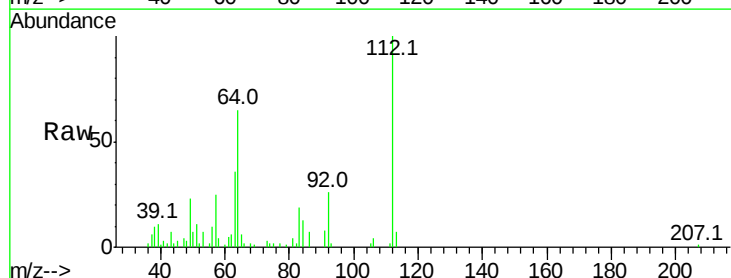
RT: 5.29 min Scan# 280

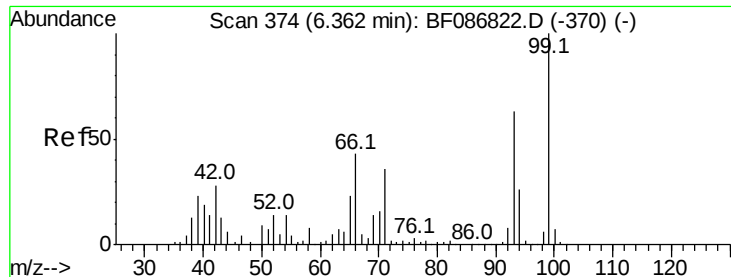
Delta R.T. 0.00 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion:	112	Resp:	51573
Ion Ratio	Lower	Upper	
112	100		
64	65.3	52.1	78.1
63	36.3	25.7	38.5





#7

Phenol-d6

Concen: 5.04 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMPDL3

Tot Ion: 99 Resp: 65441

Ion Ratio Lower Upper

99 100

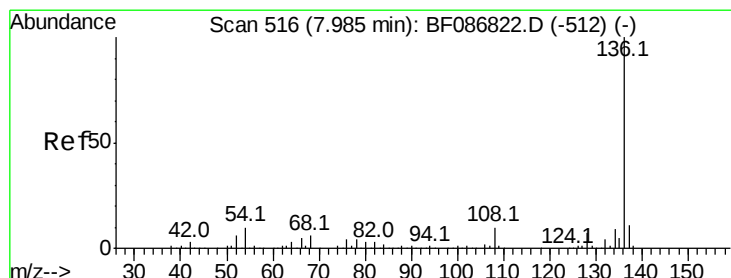
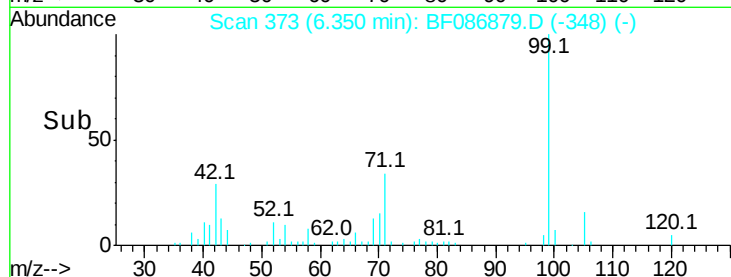
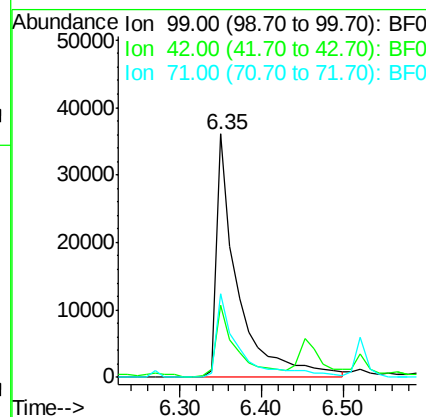
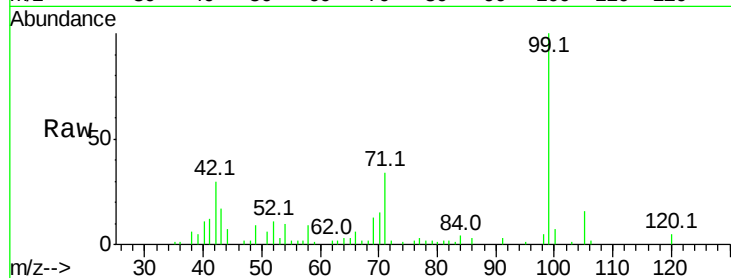
42 29.6 13.6 20.4#

71 34.1 24.6 36.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.97 min Scan# 515

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion: 136 Resp: 600079

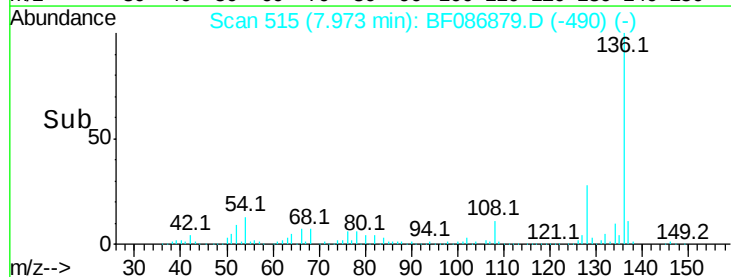
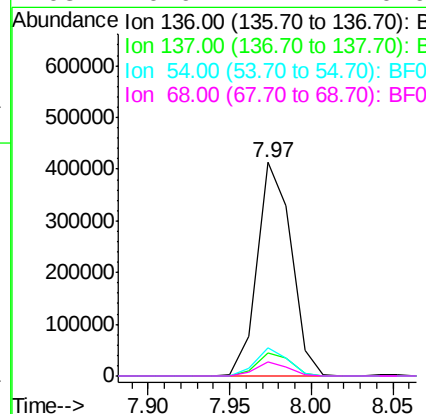
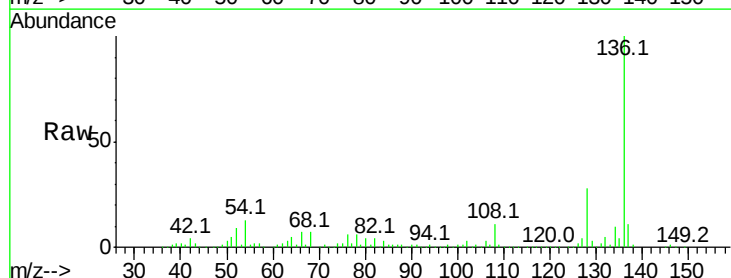
Ion Ratio Lower Upper

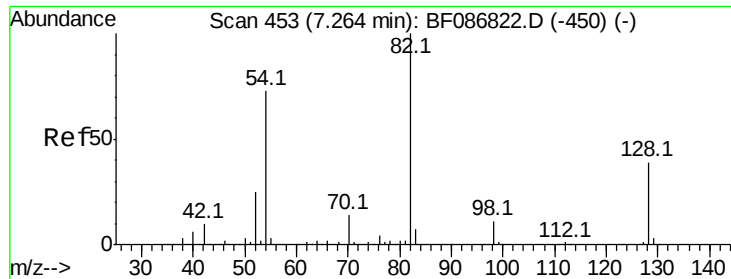
136 100

137 11.1 8.8 13.2

54 13.2 5.0 7.4#

68 6.9 4.4 6.6#





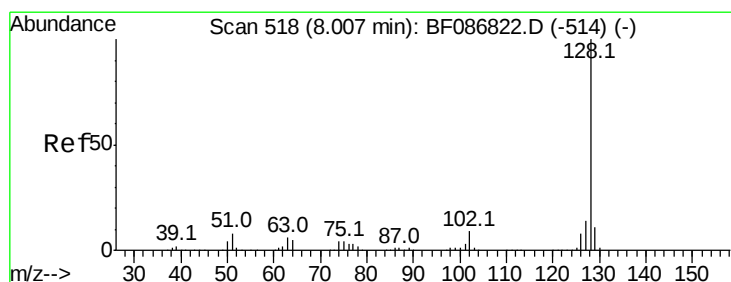
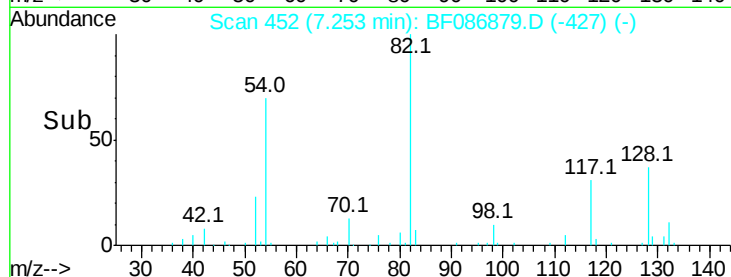
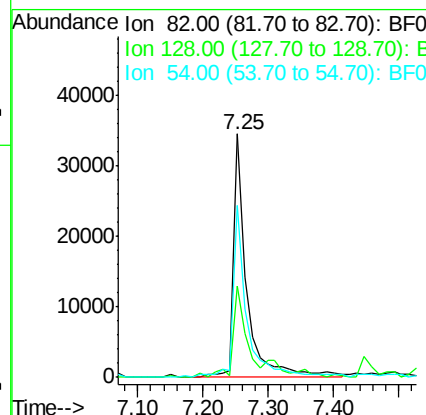
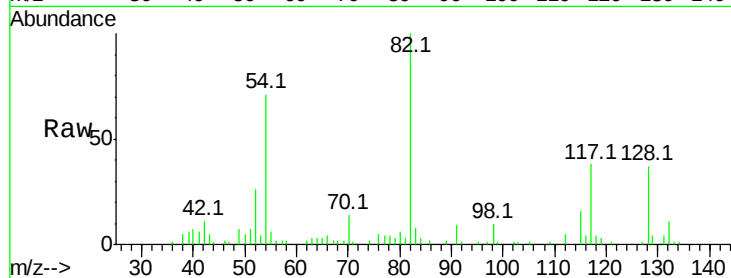
#23
 Nitrobenzene-d5
 Concen: 4.04 ng
 RT: 7.25 min Scan# 452
 Delta R.T. -0.01 min
 Lab File: BF086879.D
 Acq: 11 May 2016 4:14

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMPDL3

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	37.3	40.6	61.0#	
54	70.8	38.1	57.1#	

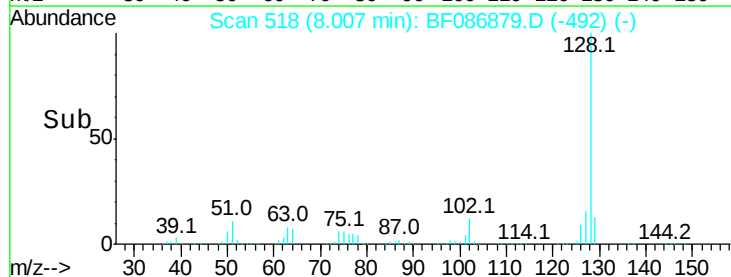
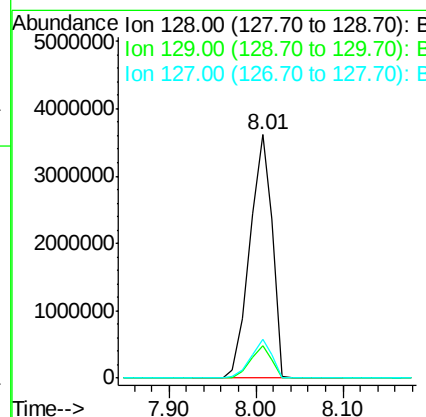
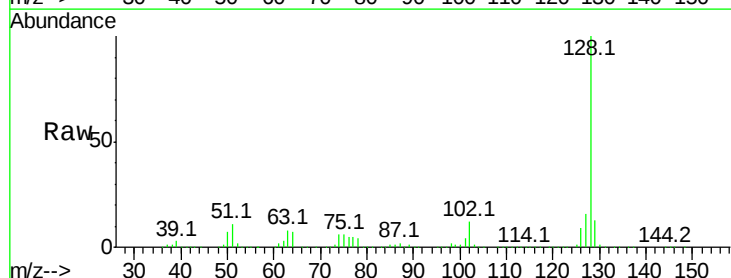
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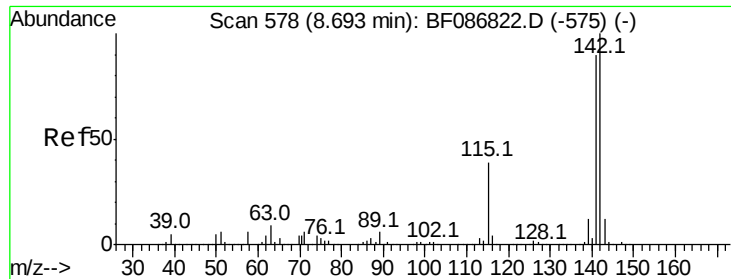
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#31
 Naphthalene
 Concen: 216.77 ng
 RT: 8.01 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: BF086879.D
 Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	13.2	8.6	13.0#	
127	16.1	10.8	16.2	





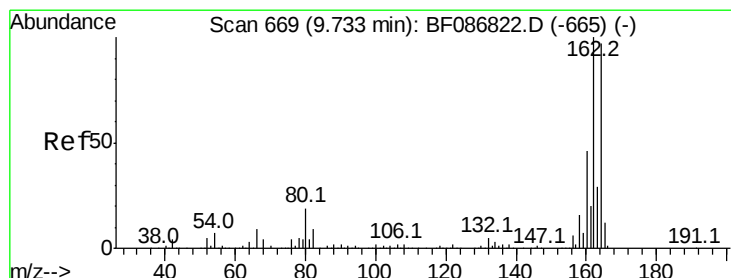
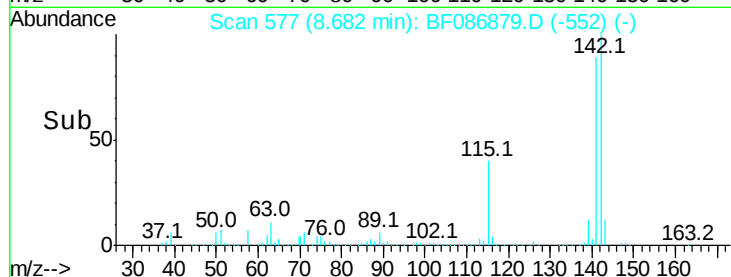
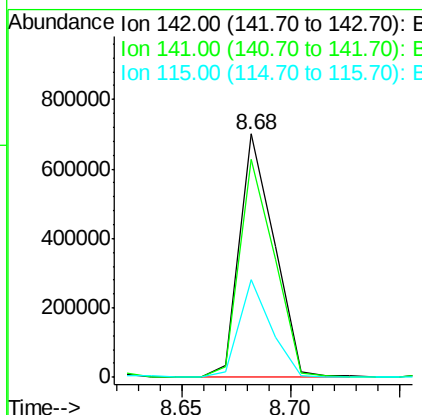
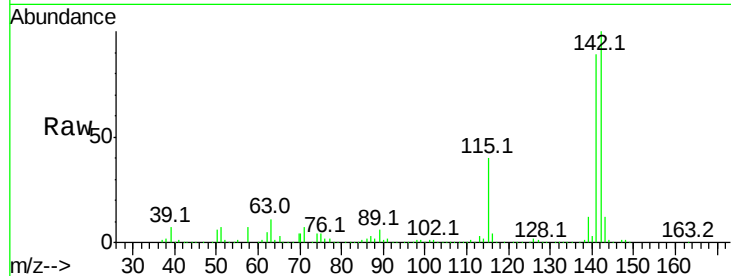
#37
2-Methylnaphthalene
Concen: 44.40 ng/mL
RT: 8.68 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.0	106.6
115	40.3	26.6	39.8

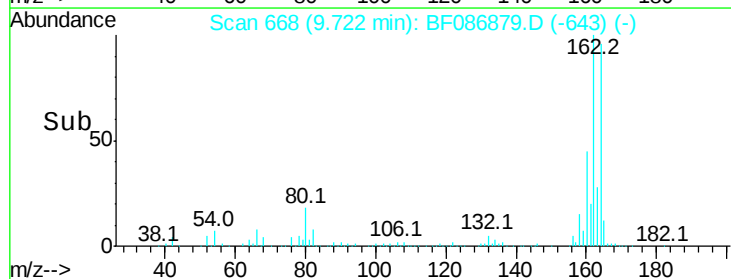
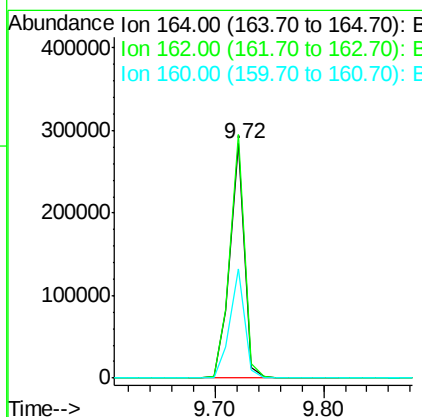
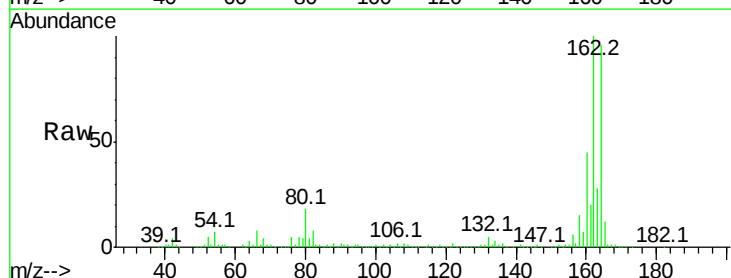
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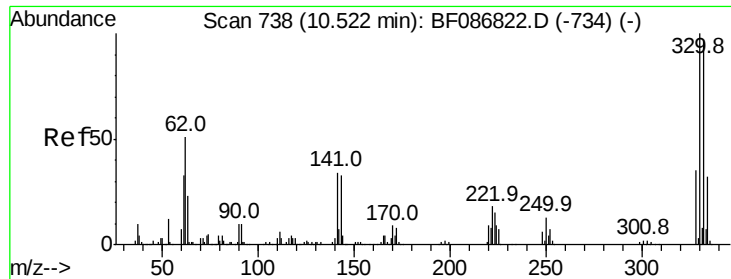
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#38
Acenaphthene-d10
Concen: 20.00 ng/mL
RT: 9.72 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.8	124.2
160	46.7	36.9	55.3





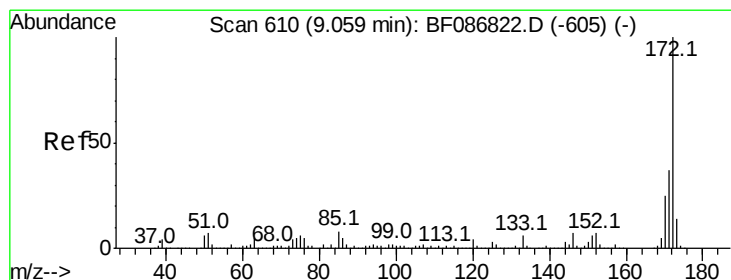
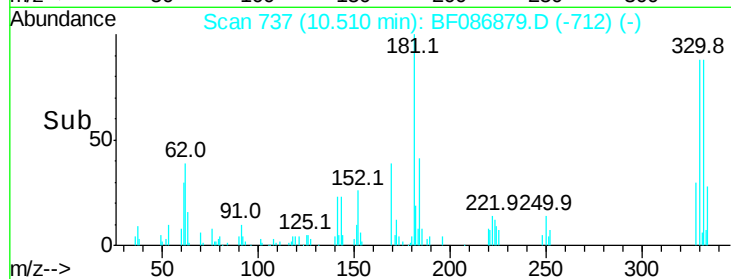
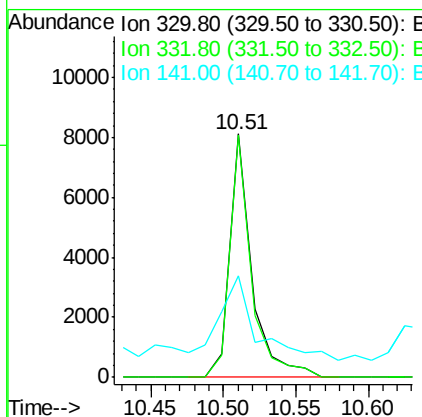
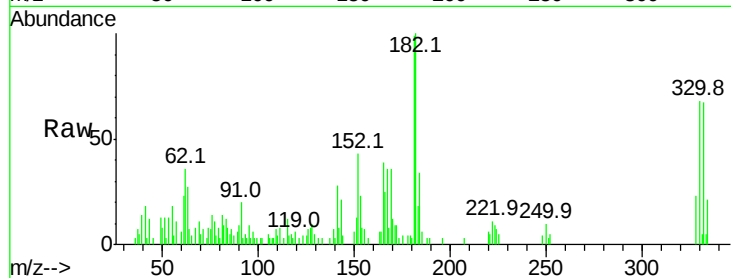
#41
 2,4,6-Tribromophenol
 Concen: 3.09 ng
 RT: 10.51 min Scan# 737
 Delta R.T. -0.01 min
 Lab File: BF086879.D
 Acq: 11 May 2016 4:14

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMPDL3

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	79.0	118.4
141	68.2	31.2	46.8

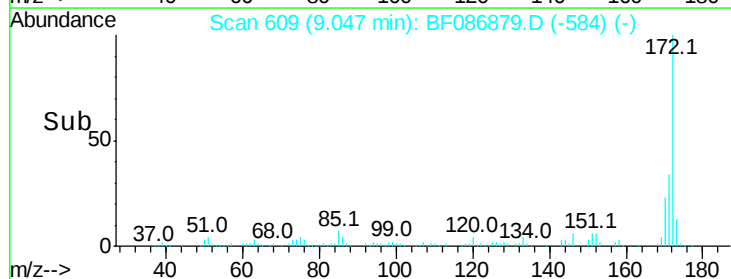
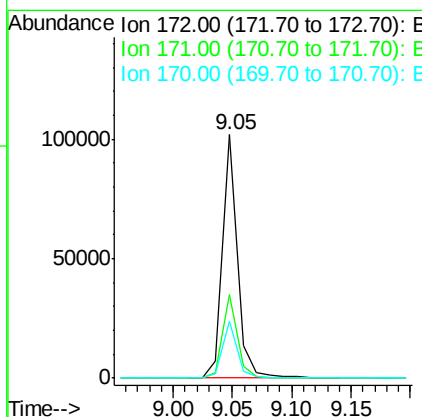
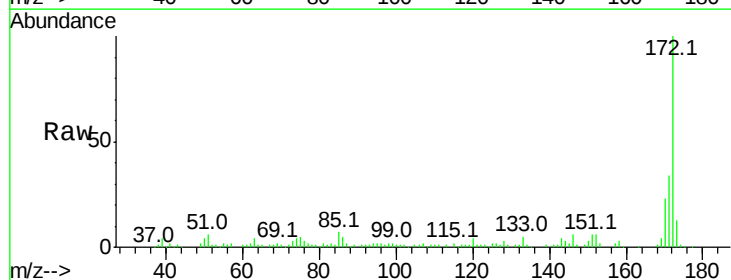
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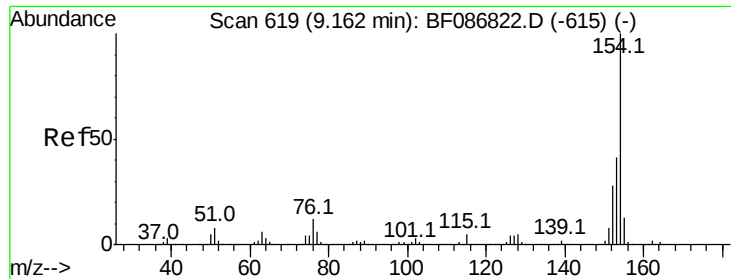
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#44
 2-Fluorobiphenyl
 Concen: 5.61 ng
 RT: 9.05 min Scan# 609
 Delta R.T. -0.01 min
 Lab File: BF086879.D
 Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.0	43.6
170	23.5	19.8	29.8





#45

1,1'-Biphenyl

Concen: 7.39 ng

RT: 9.15 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

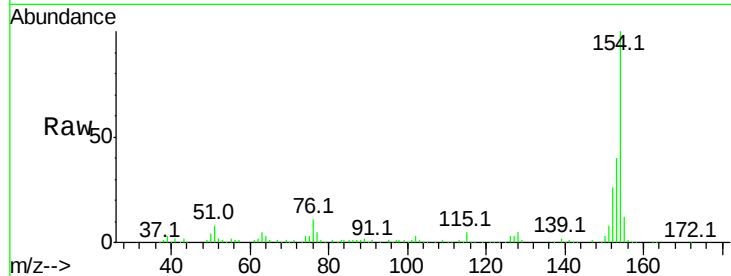
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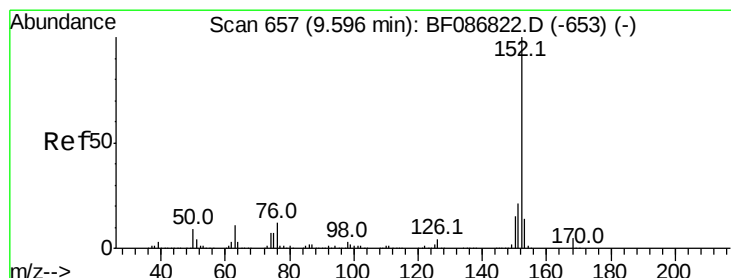
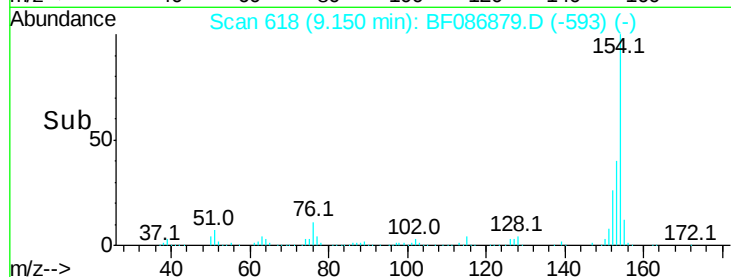
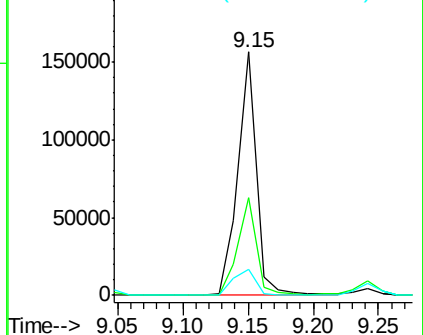
Tot Ion:	154	Resp:	155221
Ion Ratio	Lower	Upper	
154	100		
153	40.1	20.3	60.3
76	10.7	0.0	30.2

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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: 18.37 ng

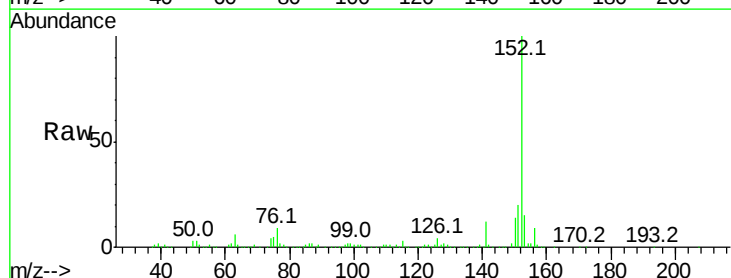
RT: 9.58 min Scan# 656

Delta R.T. -0.01 min

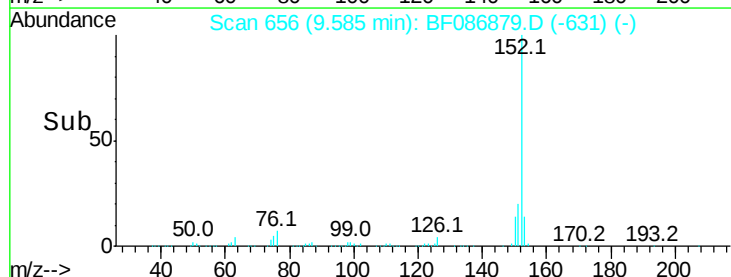
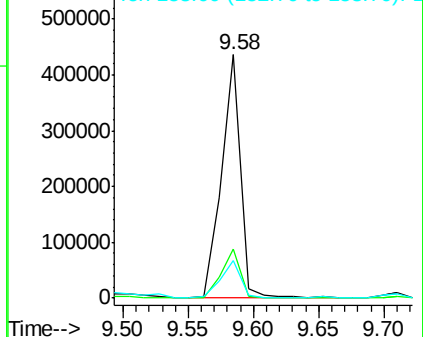
Lab File: BF086879.D

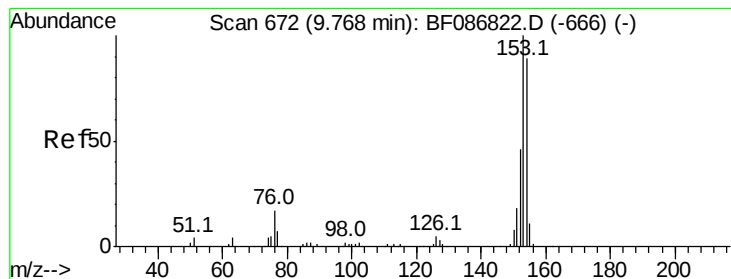
Acq: 11 May 2016 4:14

Tgt Ion:	152	Resp:	444950
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.8	25.2
153	15.3	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





#51

Acenaphthene

Concen: 14.56 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

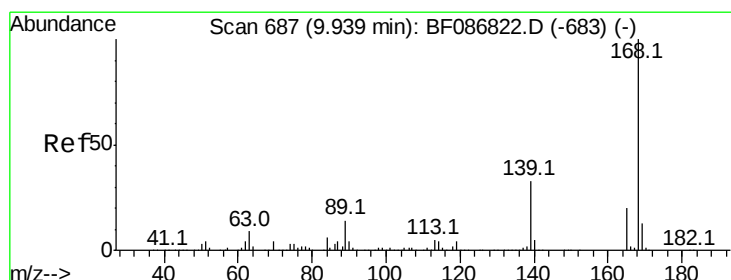
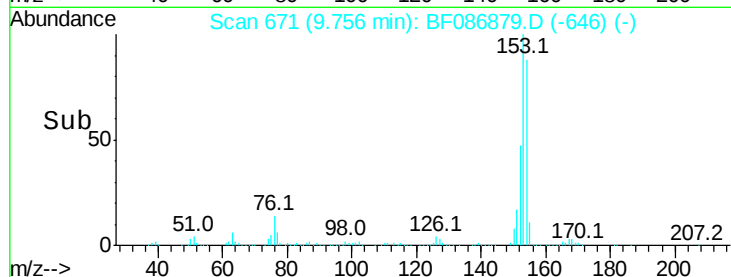
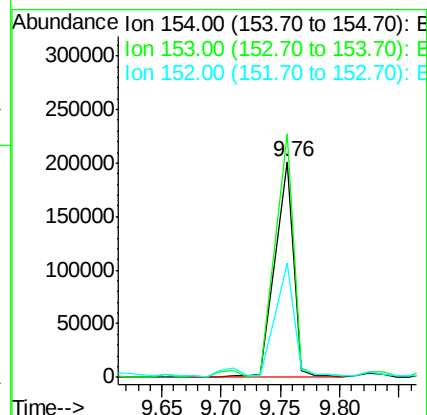
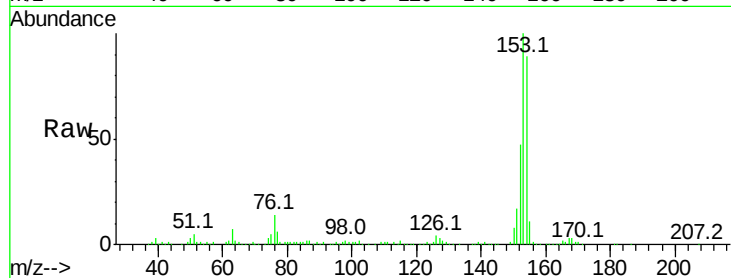
ClientSampleId :

TEC-B3COMPDL3

Tot Ion:	154	Resp:	219363
Ion Ratio	Lower	Upper	
154	100		
153	112.8	89.8	134.6
152	52.7	43.4	65.0

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#54

Dibenzofuran

Concen: 2.15 ng

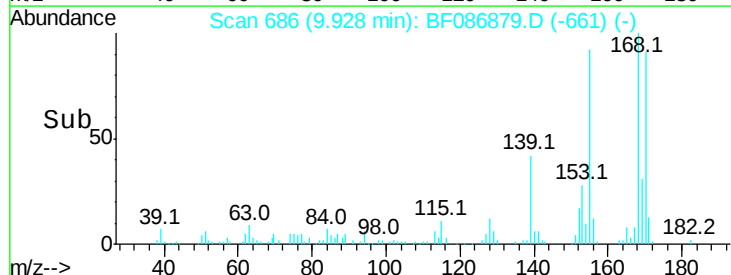
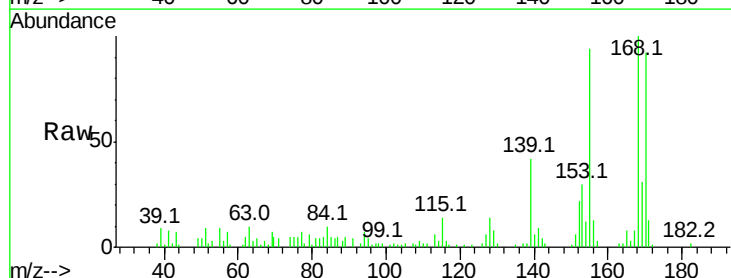
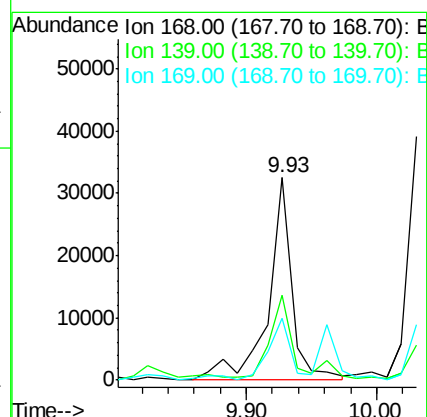
RT: 9.93 min Scan# 686

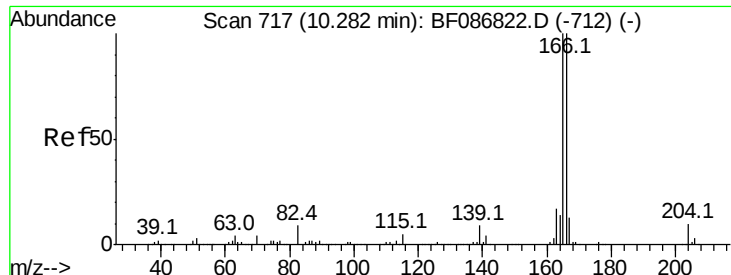
Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion:	168	Resp:	41488
Ion Ratio	Lower	Upper	
168	100		
139	41.8	31.4	47.0
169	30.7	10.7	16.1#





#57

Fluorene

Concen: 15.20 ng/mL

RT: 10.26 min Scan# 715

Delta R.T. -0.02 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMPDL3

Tot Ion:166 Resp: 250635

Ion Ratio Lower Upper

166 100

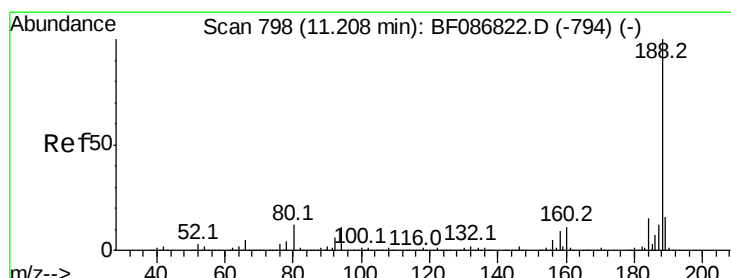
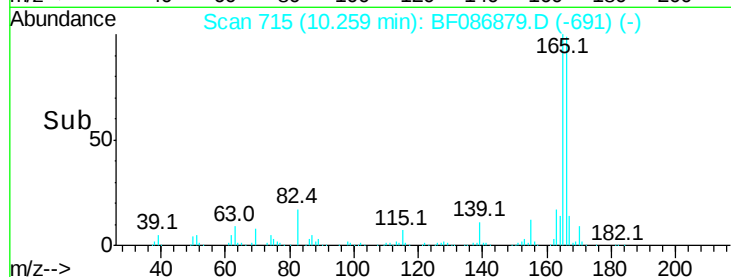
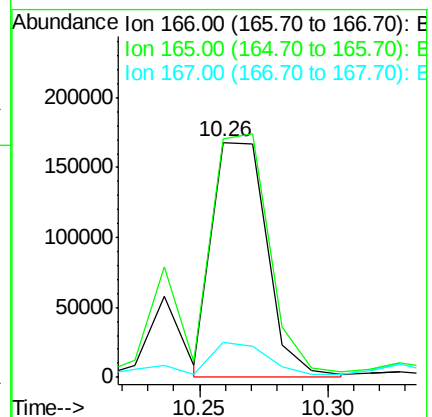
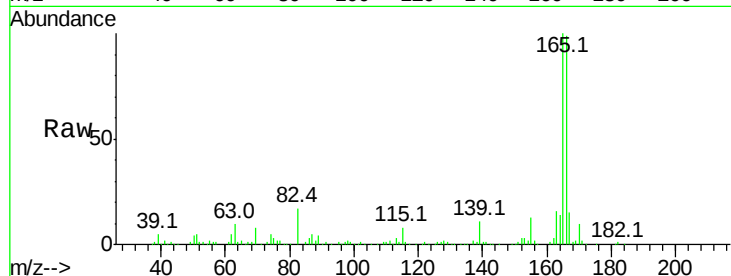
165 101.2 79.0 118.6

167 14.8 10.6 15.8

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#63

Phenanthrene-d10

Concen: 20.00 ng/mL

RT: 11.20 min Scan# 797

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

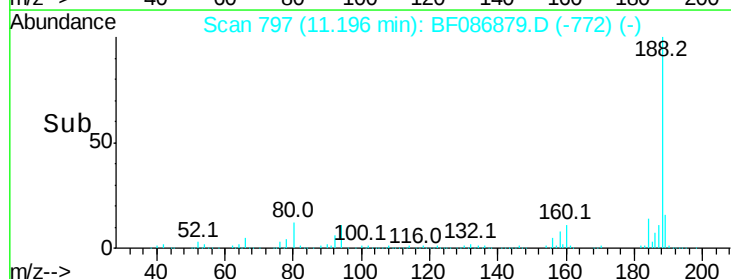
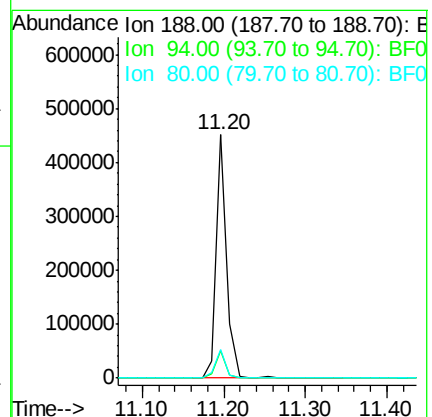
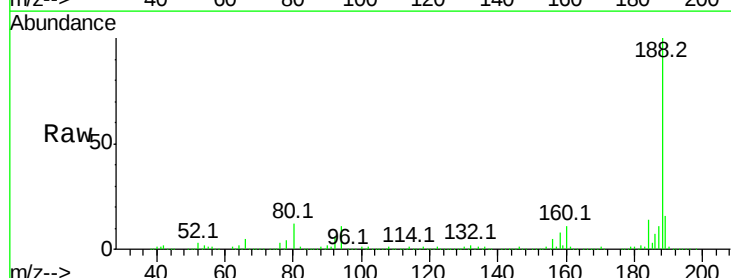
Tgt Ion:188 Resp: 408868

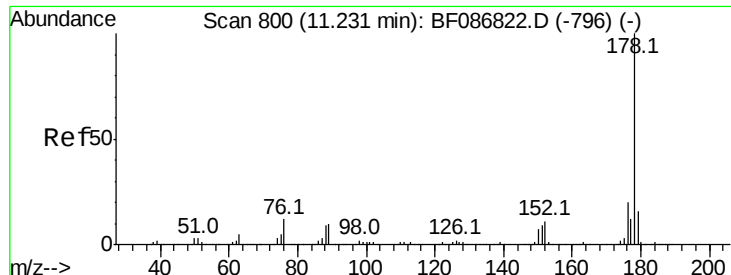
Ion Ratio Lower Upper

188 100

94 11.0 6.8 10.2#

80 11.9 7.1 10.7#





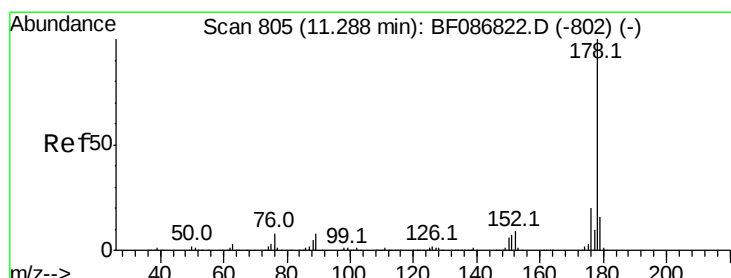
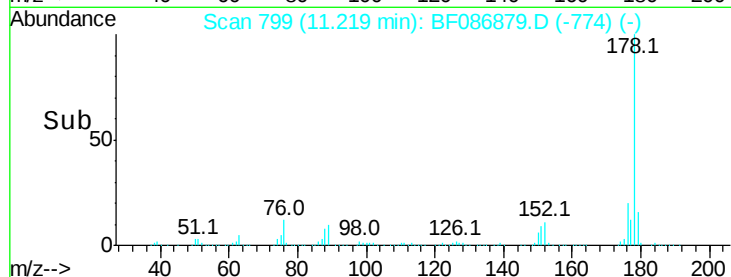
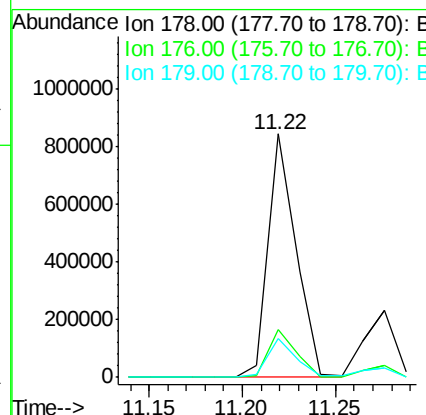
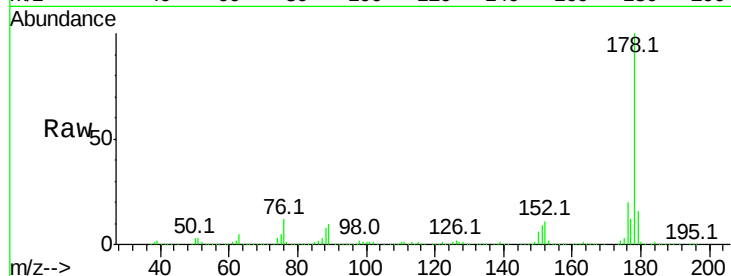
#70
Phenanthrene
Concen: 39.83 ng
RT: 11.22 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.8	12.6	18.8

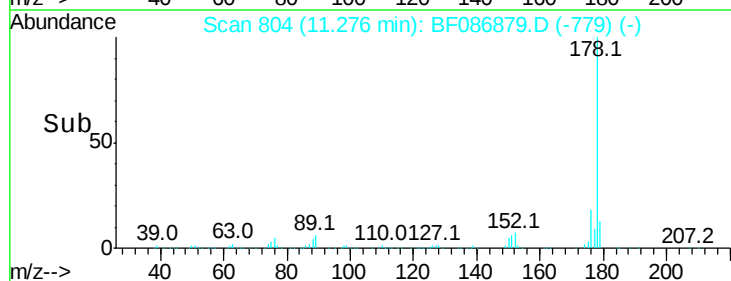
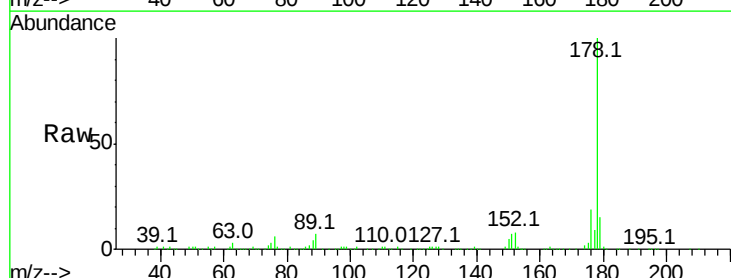
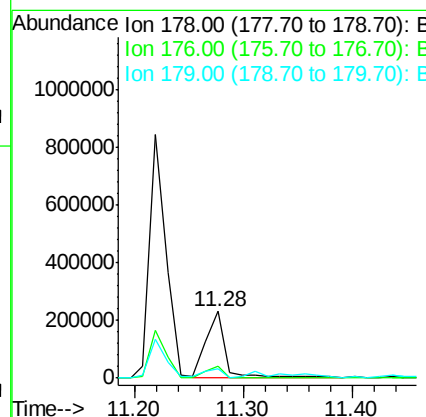
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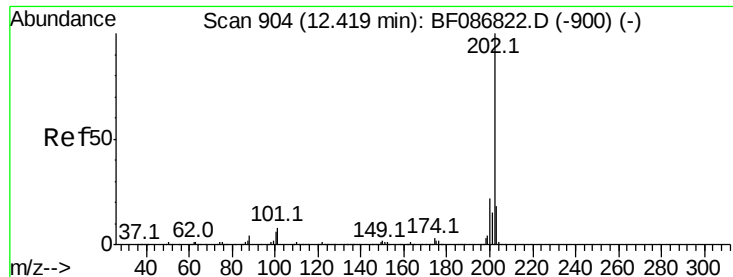
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#71
Anthracene
Concen: 12.61 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.6	23.4
179	14.9	12.7	19.1





#74

Fluoranthene

Concen: 15.97 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

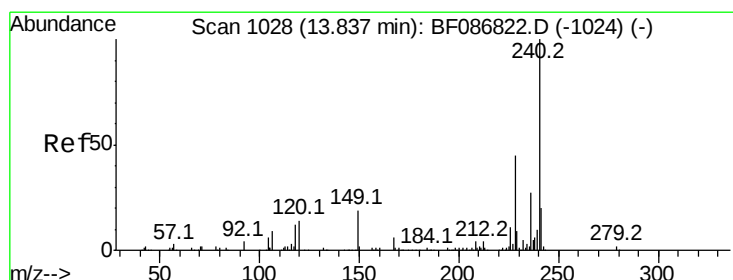
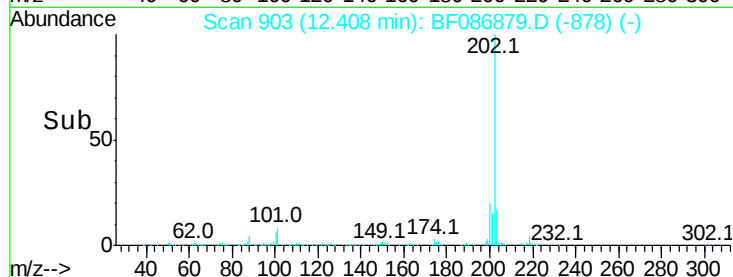
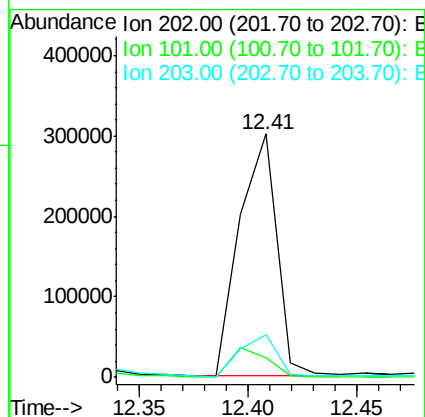
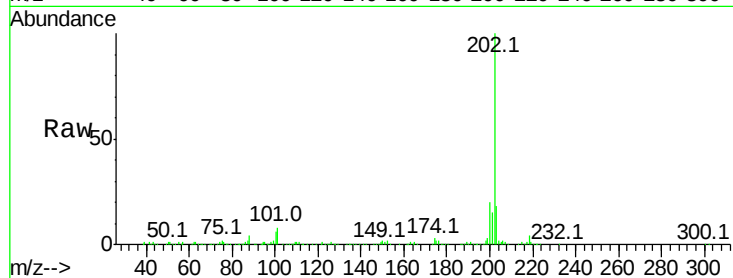
ClientSampleId :

TEC-B3COMPDL3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		358417		
101	8.1	0.0	35.4		
203	17.5	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

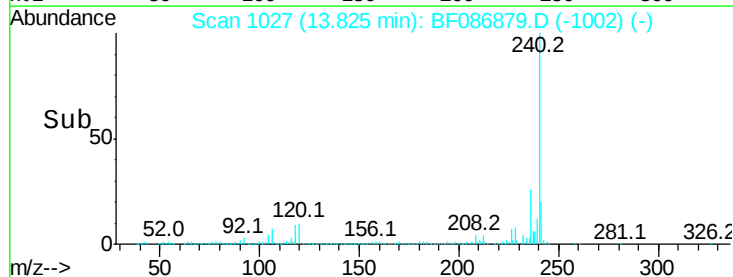
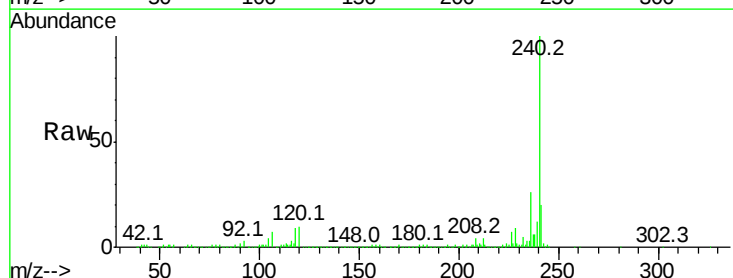
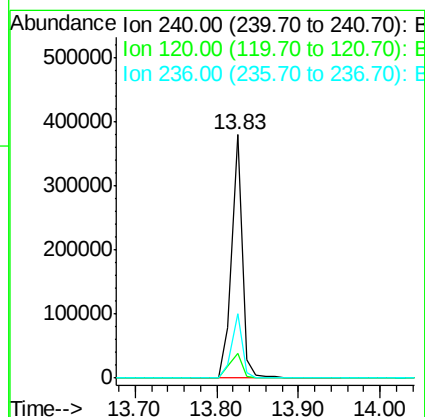
RT: 13.83 min Scan# 1027

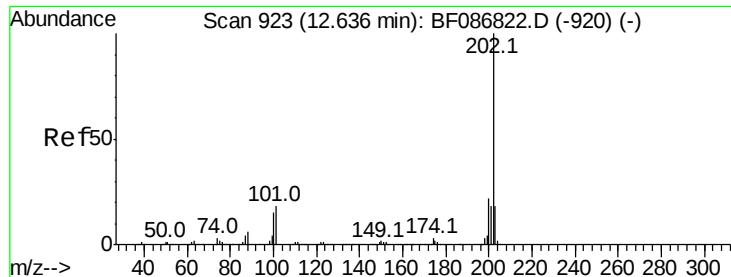
Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		344604		
120	10.3	11.2	16.8#		
236	26.4	21.2	31.8		





#77

Pvrene

Concen: 19.08 ng

RT: 12.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

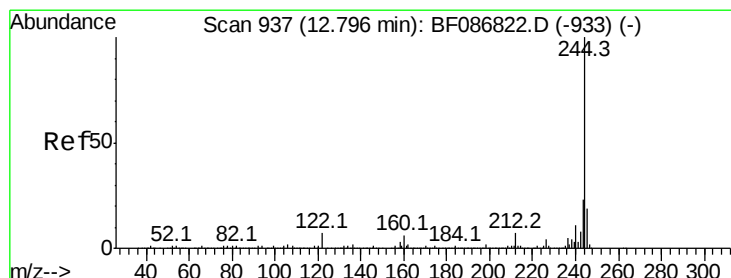
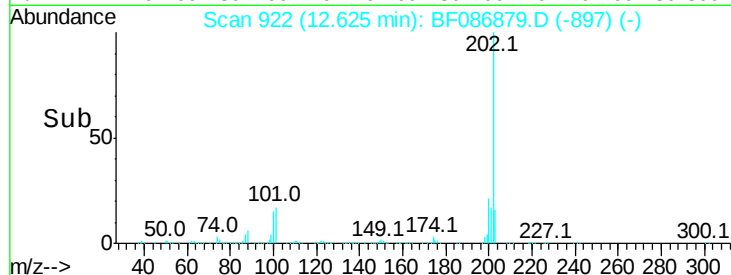
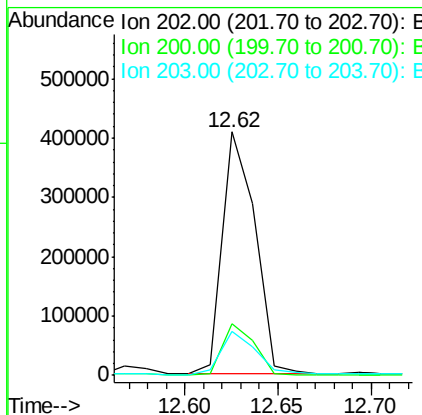
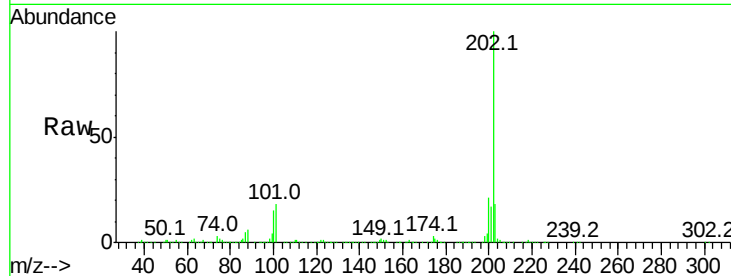
ClientSampleId :

TEC-B3COMPDL3

Tot Ion:	202	Resp:	503277
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.7	26.5
203	18.3	14.2	21.4

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#78

Terphenyl-d14

Concen: 3.61 ng

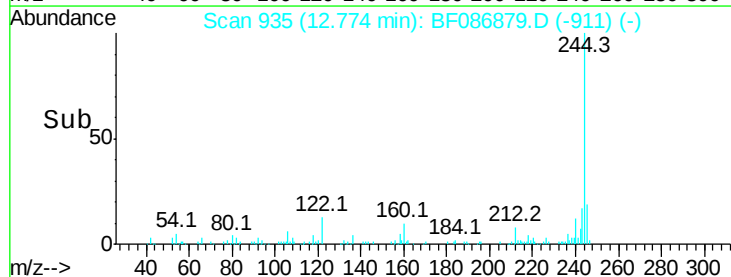
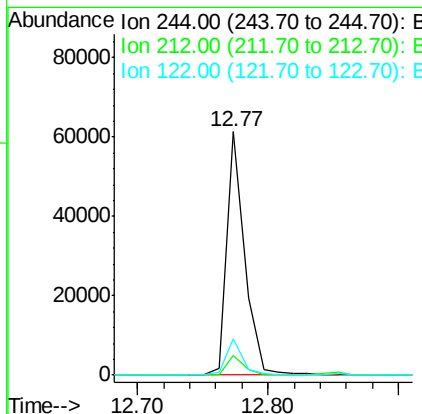
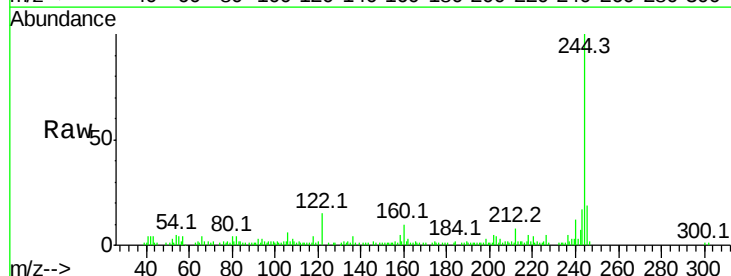
RT: 12.77 min Scan# 935

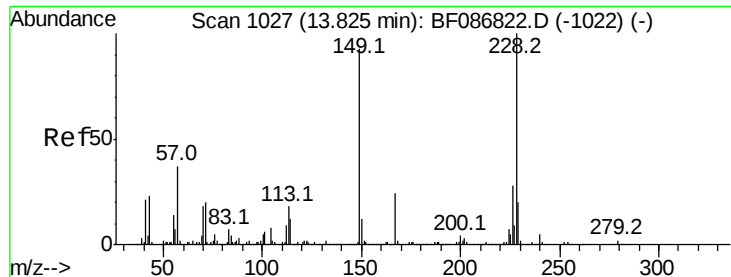
Delta R.T. -0.02 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion:	244	Resp:	58579
Ion Ratio	Lower	Upper	
244	100		
212	8.2	6.2	9.2
122	15.1	12.0	18.0





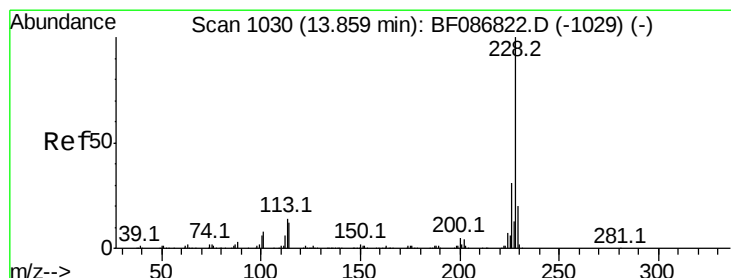
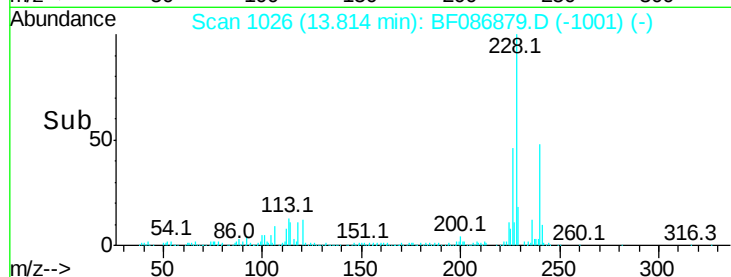
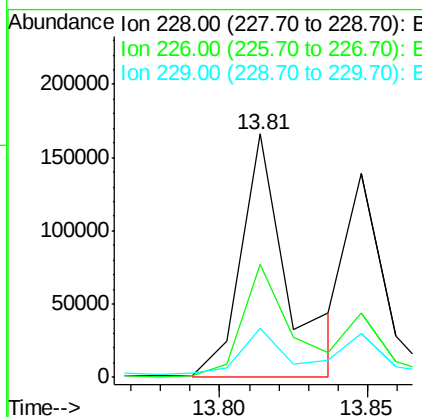
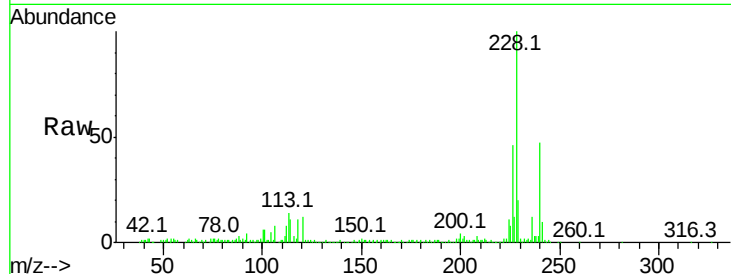
#80
Benzo(a)anthracene
Concen: 9.49 ng m
RT: 13.81 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

Tot Ion	Ratio	Lower	Upper
228	100		
226	46.4	22.5	33.7#
229	20.0	16.6	25.0

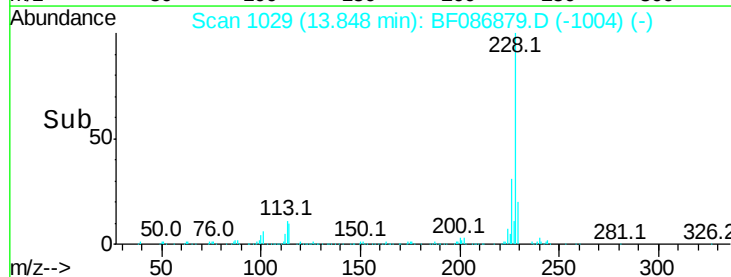
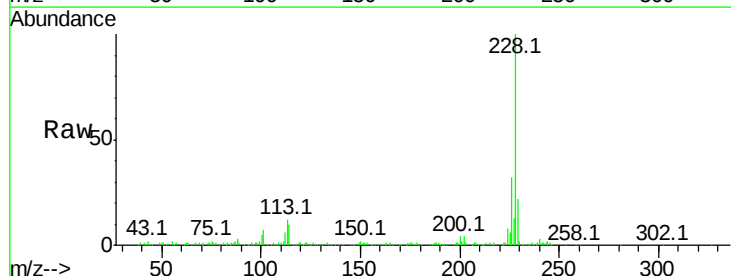
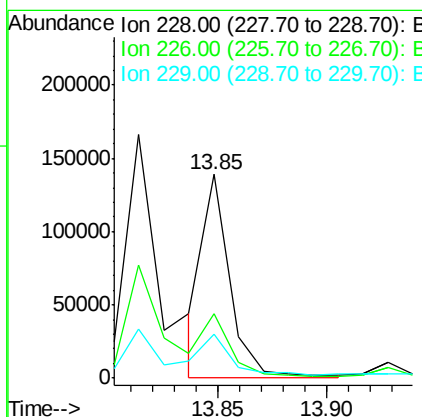
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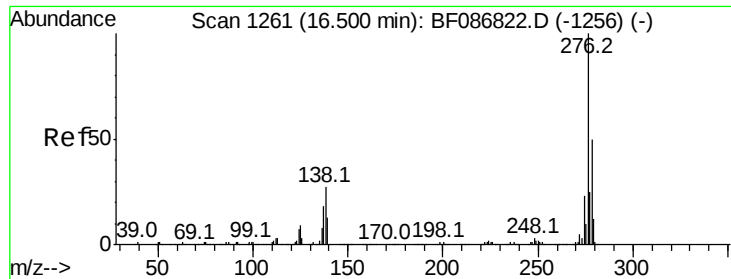
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#82
Chrysene
Concen: 6.10 ng
RT: 13.85 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.4	36.6
229	21.7	15.8	23.8





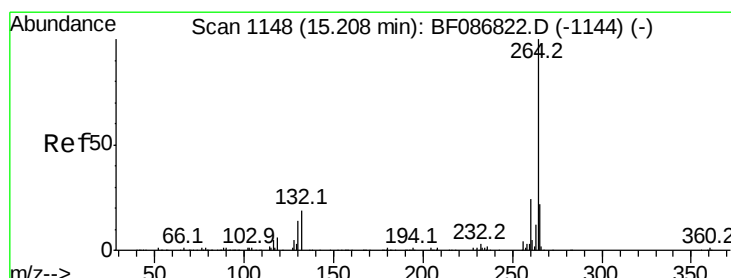
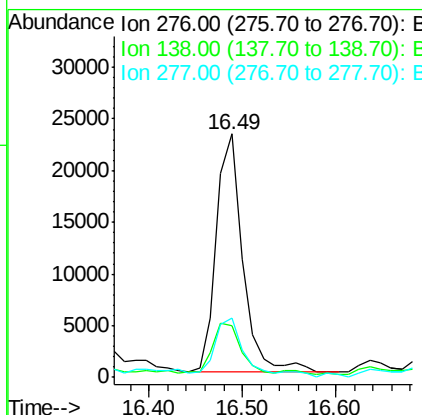
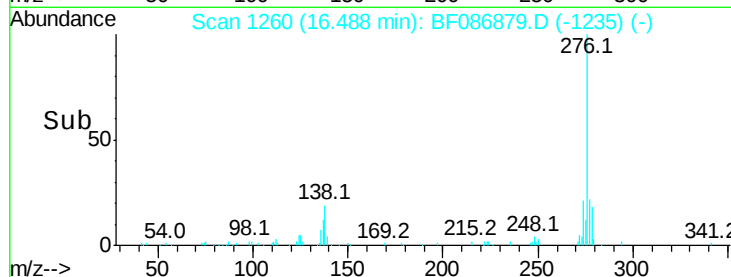
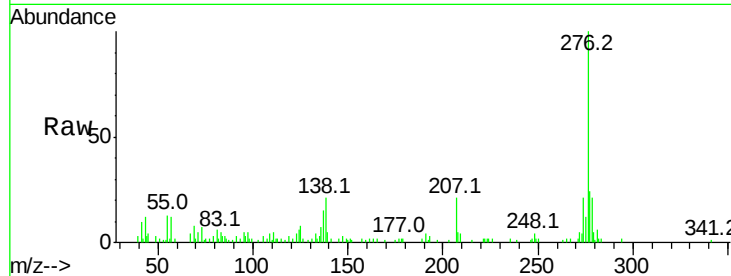
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.80 ng
RT: 16.49 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	25.6	38.4#
277	21.8	20.5	30.7

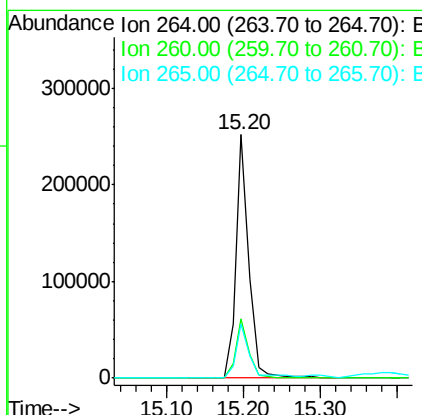
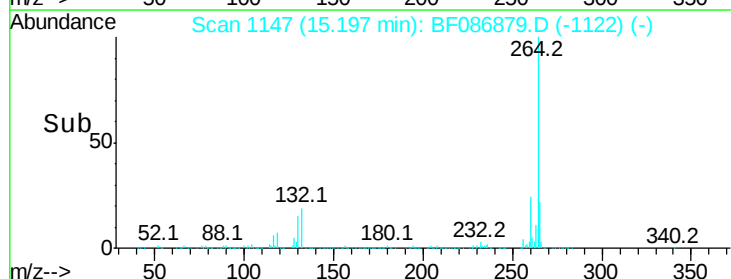
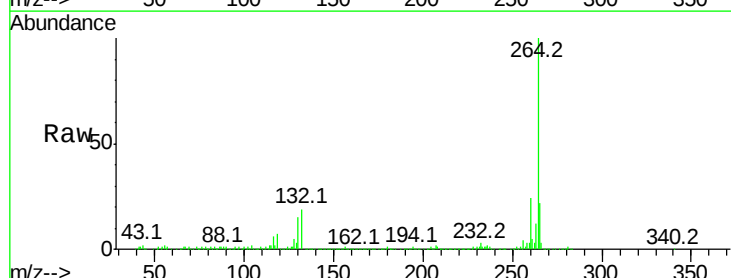
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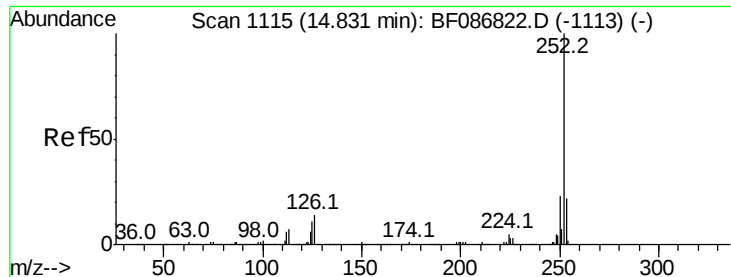
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.20 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.2	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 5.04 ng m

RT: 14.82 min Scan# 1114

Delta R.T. -0.01 min

Lab File: BF086879.D

Acq: 11 May 2016 4:14

Instrument :

BNA_F

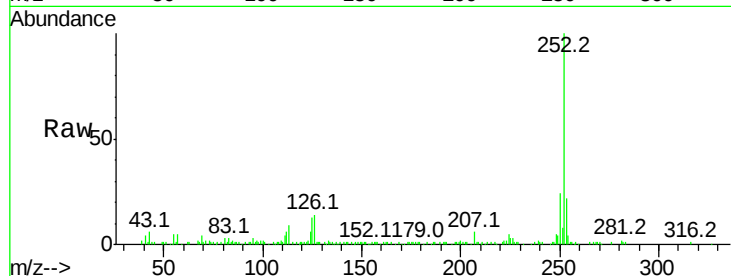
ClientSampleId :

TEC-B3COMPDL3

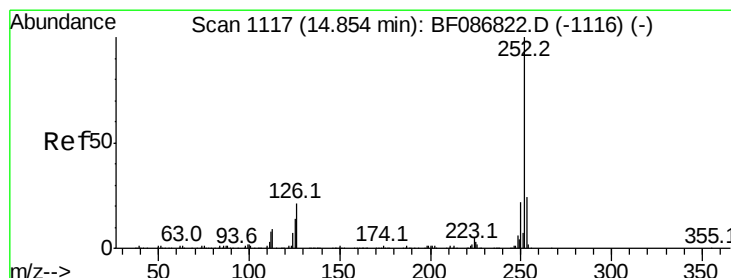
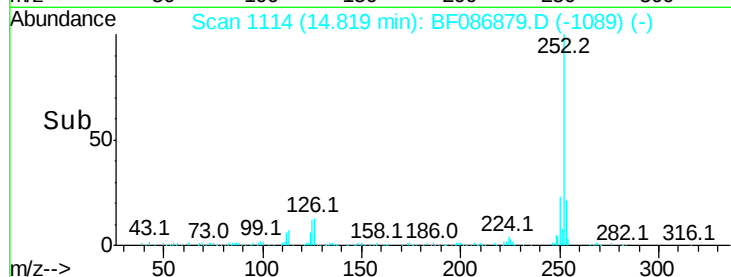
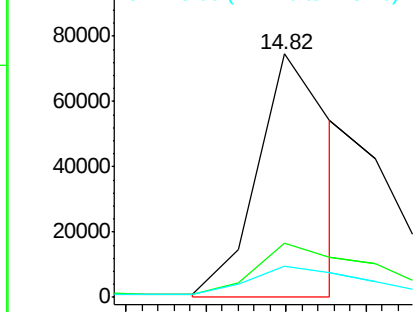
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	12.5	11.4	17.0

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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: 2.67 ng m

RT: 14.83 min Scan# 1115

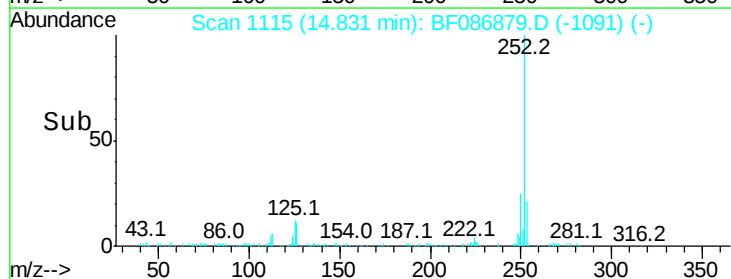
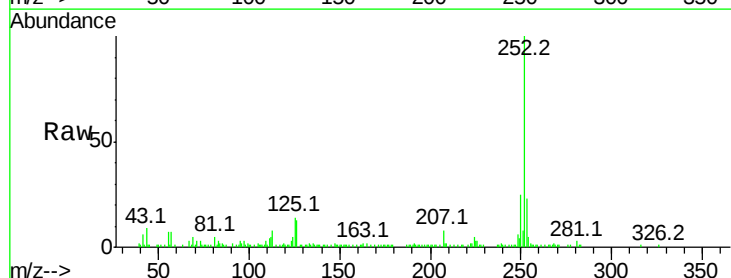
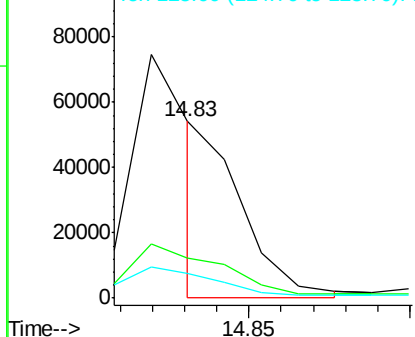
Delta R.T. -0.02 min

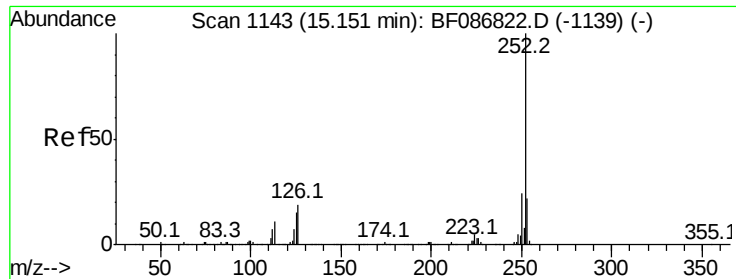
Lab File: BF086879.D

Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	13.7	9.1	13.7#

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





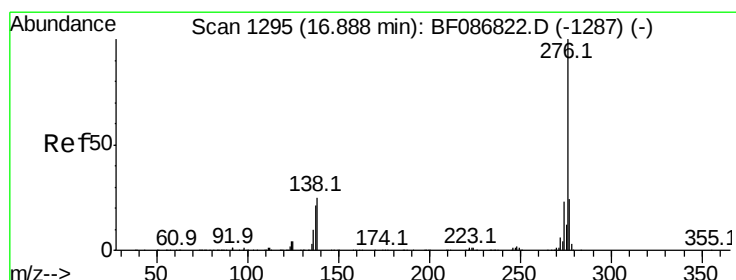
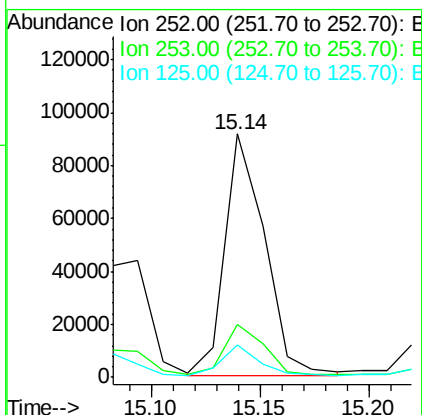
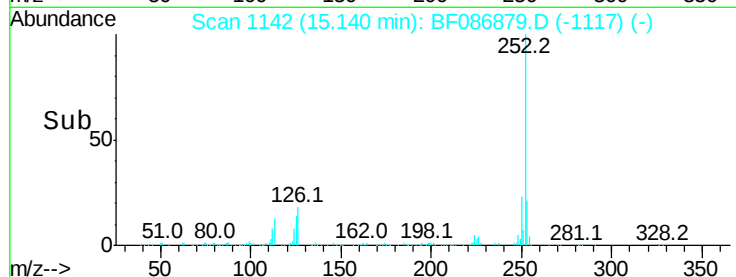
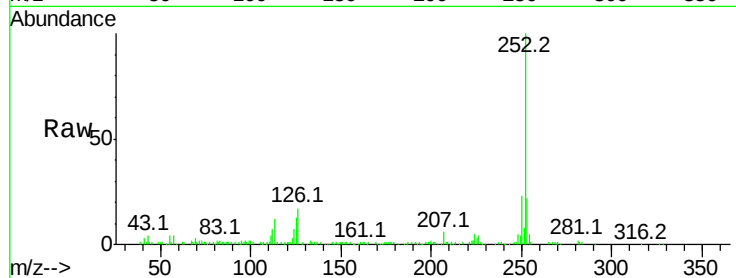
#89
Benzo(a)pyrene
Concen: 6.90 ng
RT: 15.14 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL3

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.0	17.2	25.8
125	13.4	9.0	13.6

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#91
Benzo(g,h,i)perylene
Concen: 3.67 ng m
RT: 16.87 min Scan# 1293
Delta R.T. -0.02 min
Lab File: BF086879.D
Acq: 11 May 2016 4:14

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	23.8	19.6	29.4
138	23.5	23.6	35.4#

