

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
 Data File : BF096220.D
 Acq On : 27 Jun 2017 17:07
 Operator : SJ/MA
 Sample : I3872-07DL 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-05-062217-CDL

Manual Integrations
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Quant Time: Jun 27 17:46:25 2017
 Quant Method : Z:\HPCHEM1\BNA_F\Methods\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 27 15:17:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	223939	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	939096	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	390204	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	565162	20.00	ng	0.00
75) Chrysene-d12	13.92	240	385017	20.00	ng	0.00
86) Perylene-d12	15.34	264	381815	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	31658	2.04	ng	0.00
7) Phenol-d6	6.39	99	39782	2.11	ng	0.00
23) Nitrobenzene-d5	7.33	82	20287	1.50	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	5208	1.70	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	41176	1.93	ng	-0.02
78) Terphenyl-d14	12.87	244	24915	1.61	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.08	128	887254	19.603	ng	99
37) 2-Methylnaphthalene	8.77	142	197815	6.728	ng	98
51) Acenaphthene	9.85	154	192621	7.942	ng	99
54) Dibenzofuran	10.02	168	249694	7.885	ng	97
57) Fluorene	10.36	166	297675	13.650	ng	99
70) Phenanthrene	11.32	178	1195659	41.606	ng	99
71) Anthracene	11.36	178	435255	13.781	ng	97
72) Carbazole	11.51	167	169544	4.863	ng	96
74) Fluoranthene	12.50	202	878848	27.994	ng	96
77) Pyrene	12.73	202	726597	22.963	ng	99
80) Benzo(a)anthracene	13.91	228	327265	13.944	ng	99
82) Chrysene	13.94	228	282153	11.624	ng	96
85) Indeno(1,2,3-cd)pyrene	16.73	276	122707	6.090	ng	98
87) Benzo(b)fluoranthene	14.93	252	343851m	13.709	ng	
88) Benzo(k)fluoranthene	14.96	252	127916m	5.586	ng	
89) Benzo(a)pyrene	15.28	252	258893	11.686	ng	# 92
91) Benzo(g,h,i)perylene	17.14	276	104603	5.801	ng	96

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

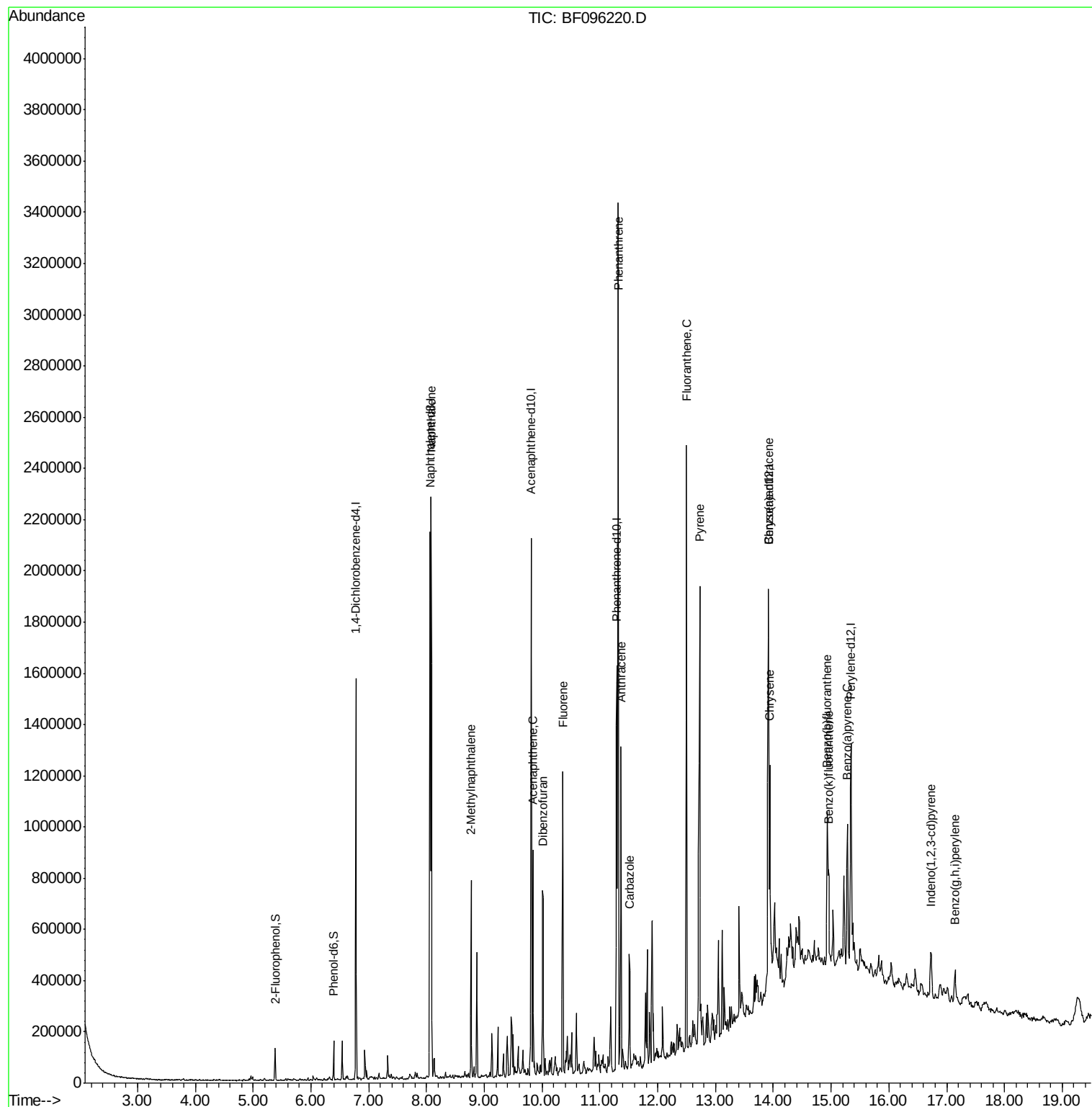
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
Data File : BF096220.D
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Sample : I3872-07DL 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

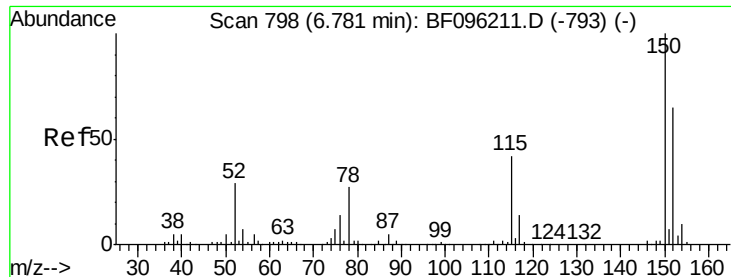
Instrument :
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HR-05-062217-CDL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

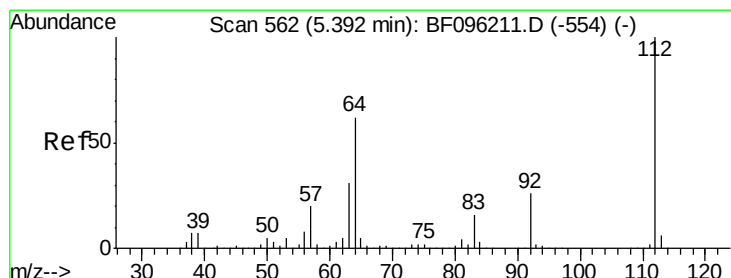
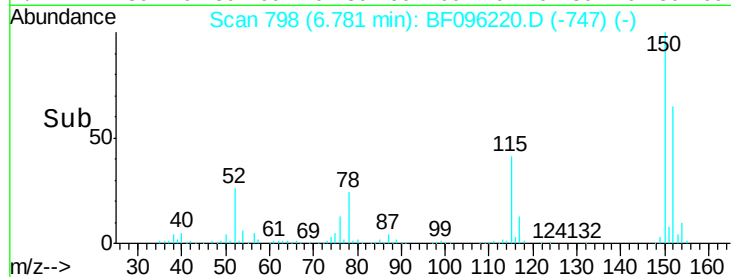
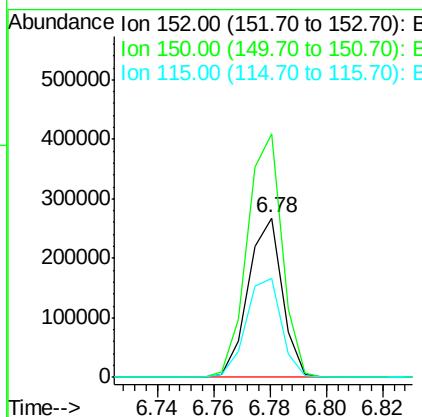
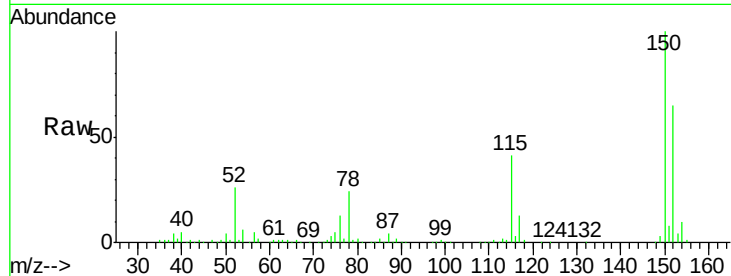
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.7	126.2	189.2
115	62.0	52.2	78.2

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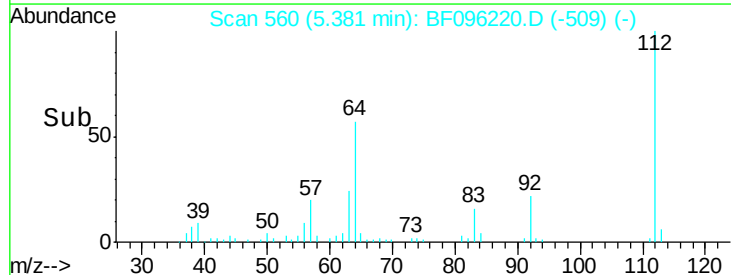
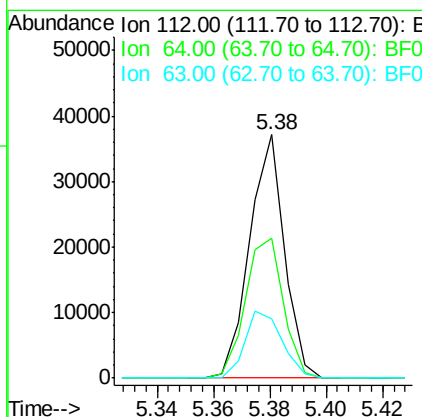
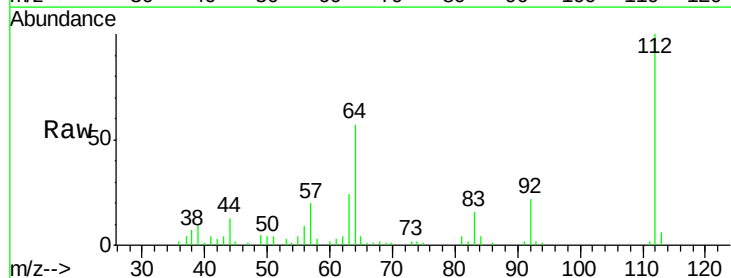
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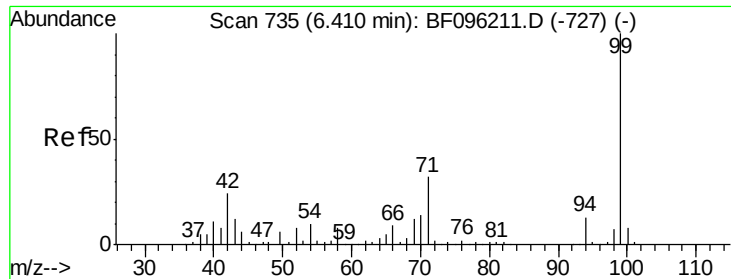


#5

2-Fluorophenol
Concen: 2.037 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	46.0	69.0
63	24.5	23.4	35.0





#7

Phenol-d6

Concen: 2.114 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

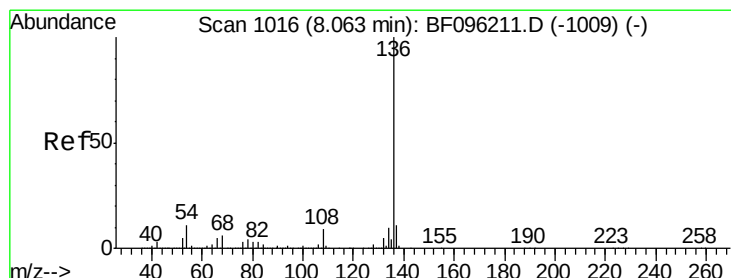
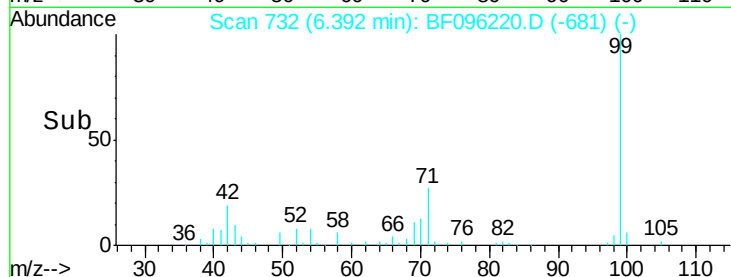
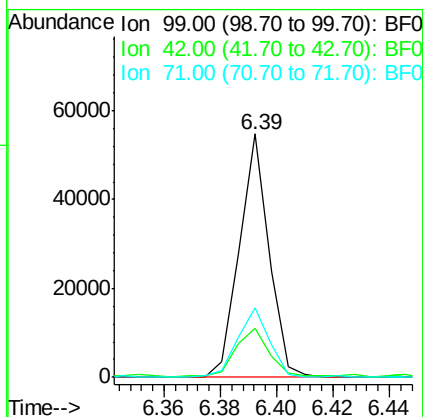
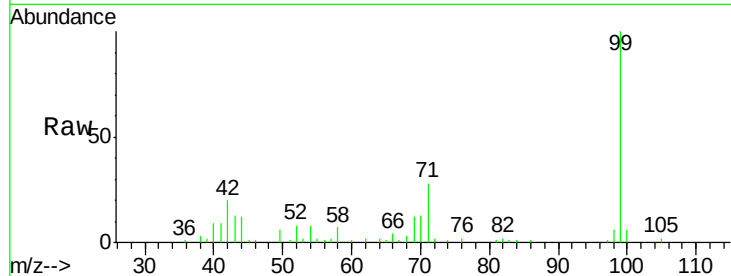
ClientSampleId :

HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	39782		
42	20.1	13.5	20.3	
71	28.4	24.5	36.7	

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#21

Naphthalene-d8

Concen: 20.000 ng

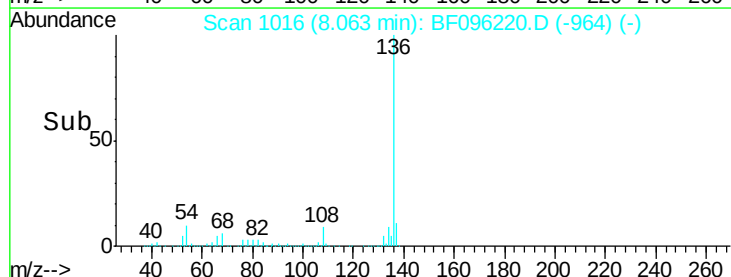
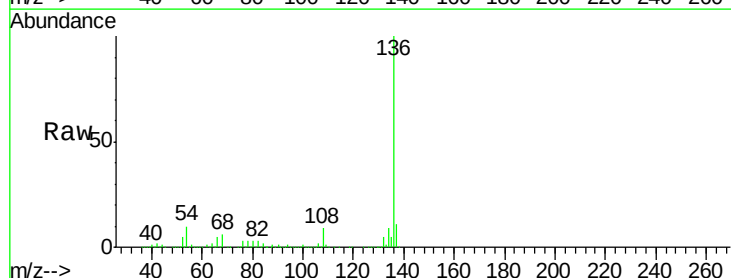
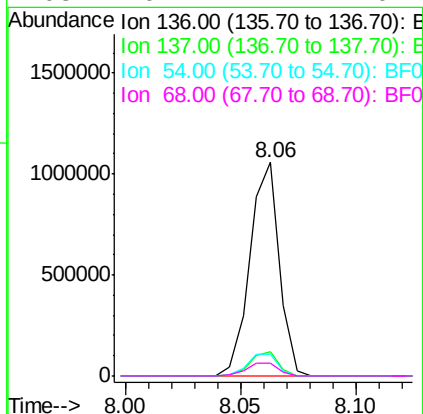
RT: 8.06 min Scan# 1016

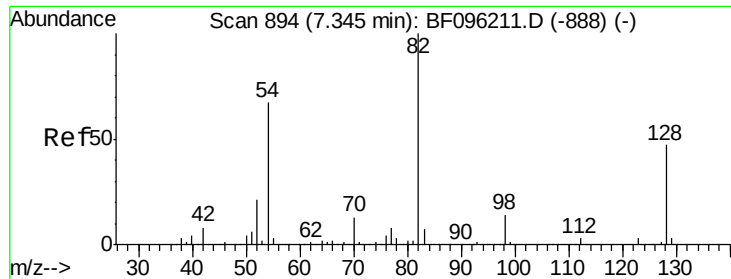
Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	939096		
137	11.2	8.5	12.7	
54	10.2	4.9	7.3#	
68	6.1	4.1	6.1#	





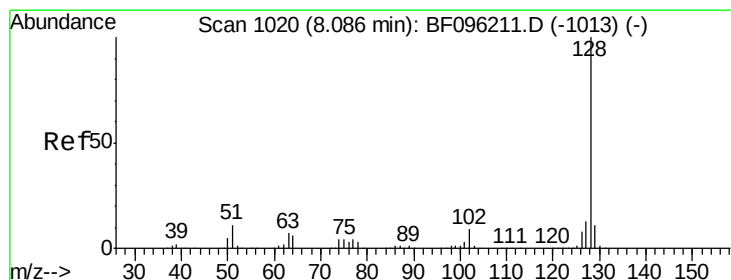
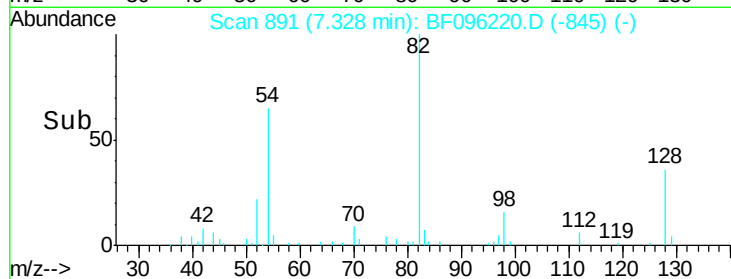
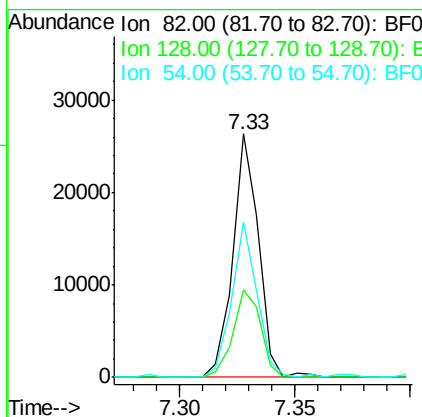
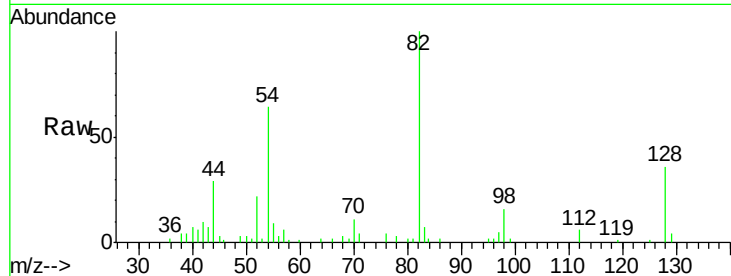
#23
Nitrobenzene-d5
Concen: 1.495 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.03 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.7	34.0	51.0
54	63.9	42.2	63.2

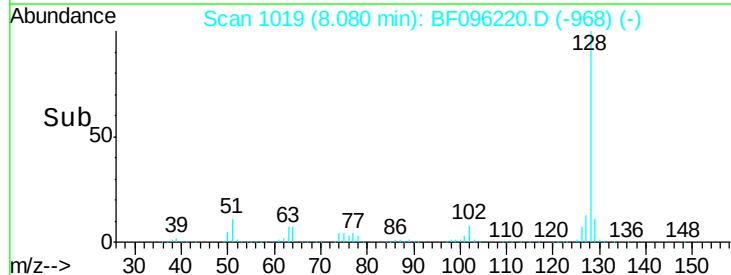
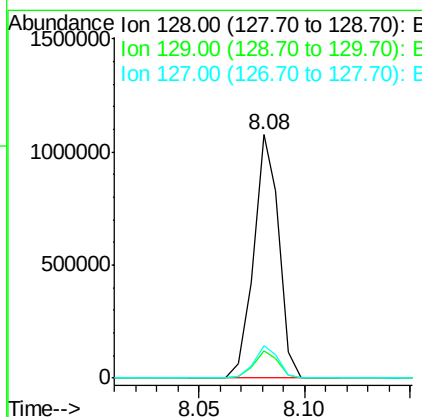
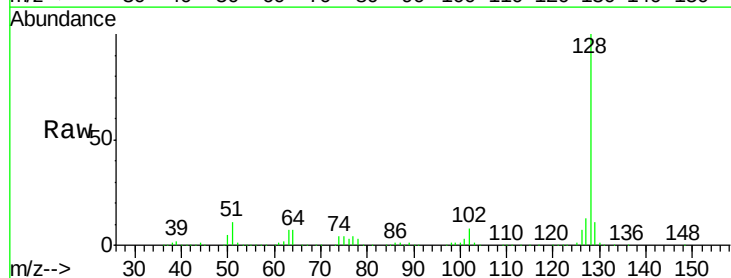
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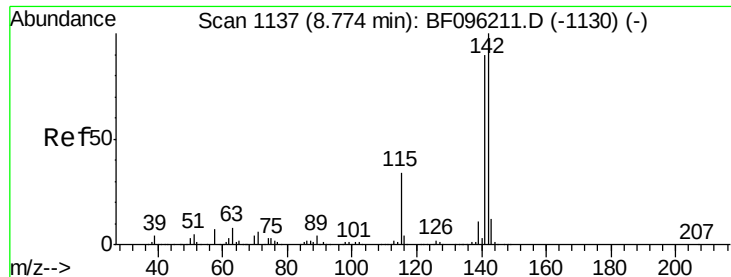
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#31
Naphthalene
Concen: 19.603 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.3	10.8	16.2





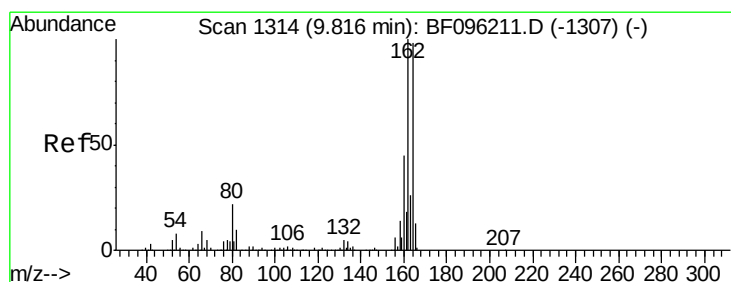
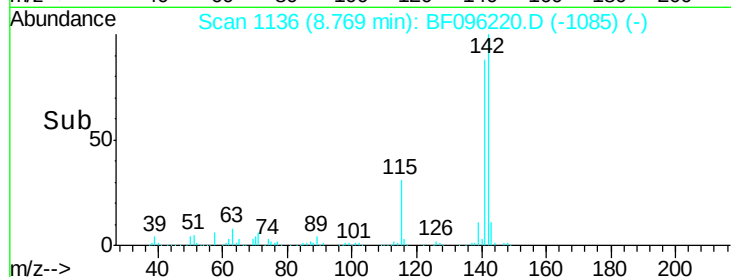
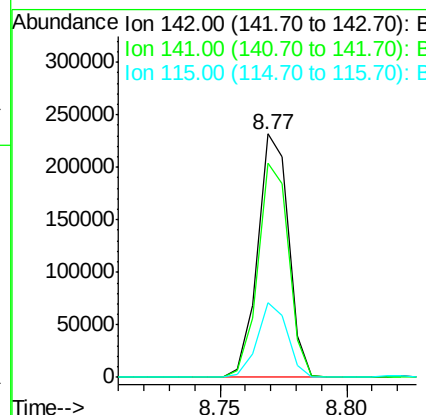
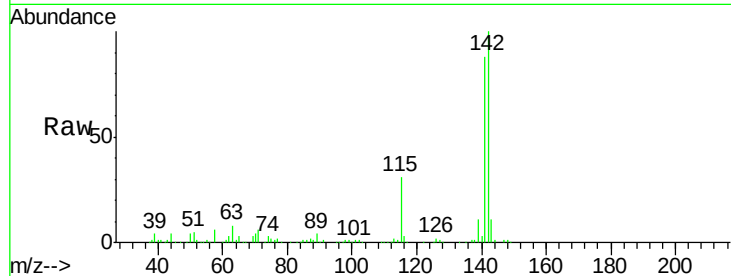
#37
 2-Methylnaphthalene
 Concen: 6.728 ng
 RT: 8.77 min Scan# 1136
 Delta R.T. -0.00 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Instrument :
 BNA_F
 ClientSampleId :
 HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	197815		
141	88.0	71.3	106.9	
115	30.8	27.1	40.7	

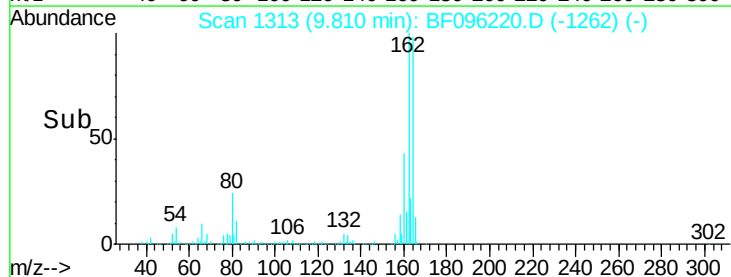
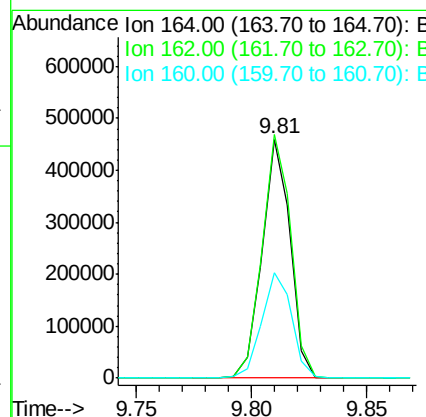
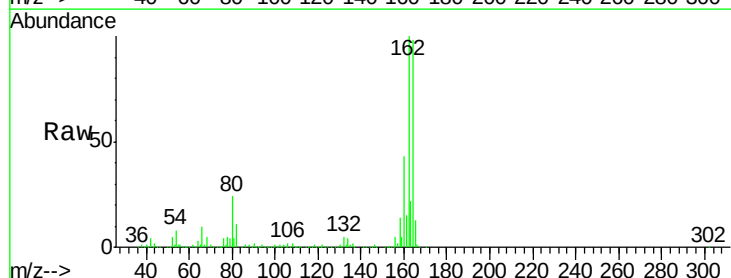
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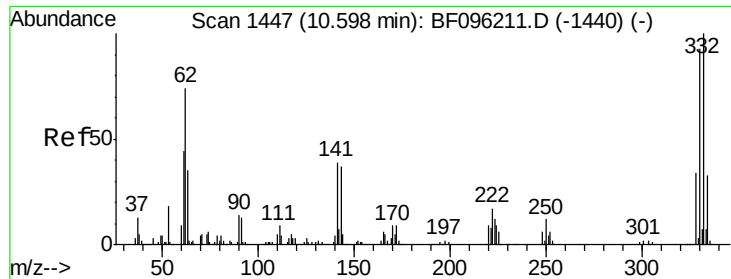
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.00 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	390204		
162	102.0	82.6	123.8	
160	44.1	36.2	54.2	





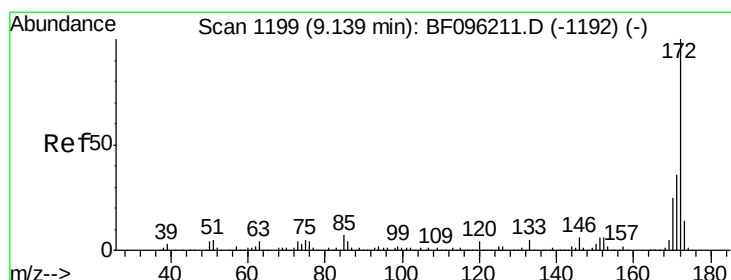
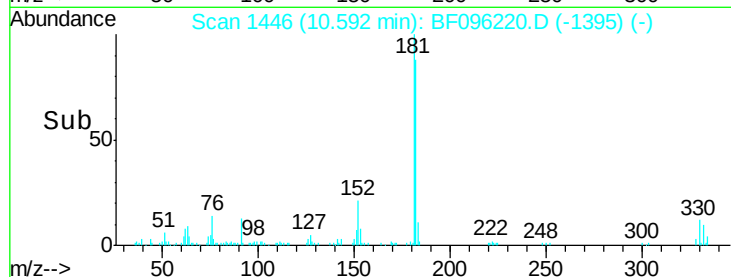
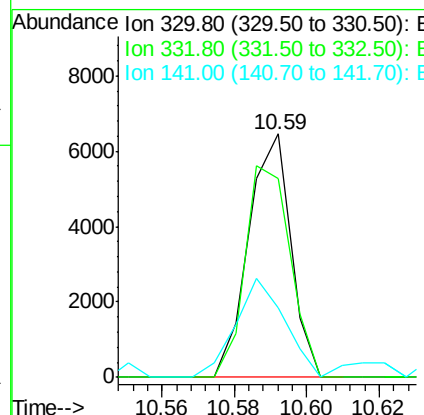
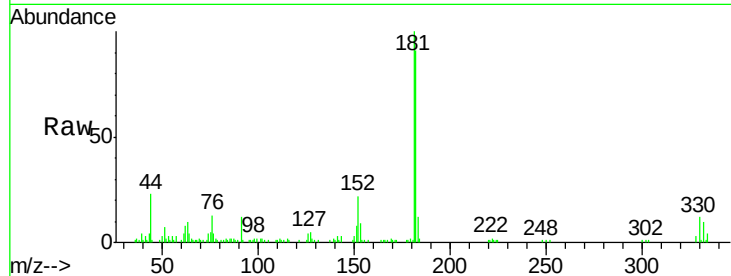
#41
 2,4,6-Tribromophenol
 Concen: 1.696 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.00 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Instrument :
 BNA_F
 ClientSampleId :
 HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5208		
332	93.0	76.6	115.0	
141	47.3	31.4	47.2#	

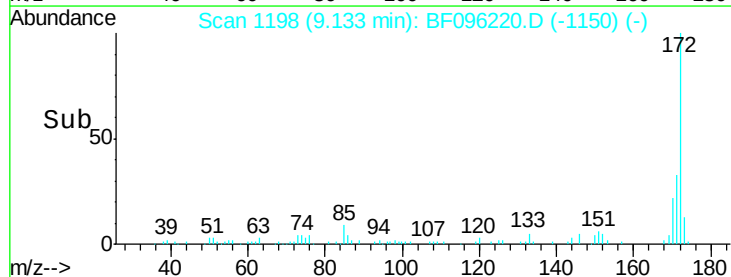
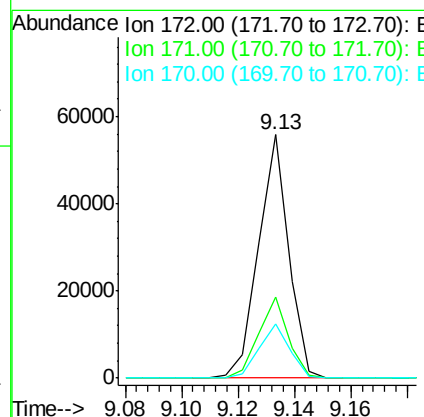
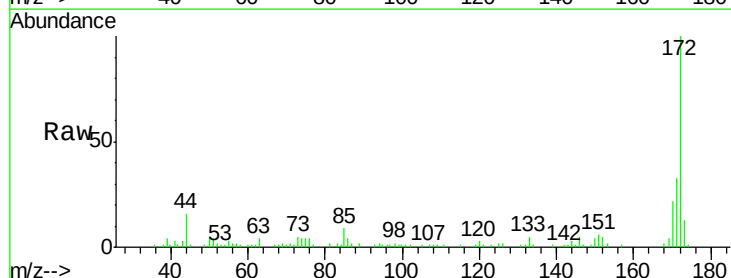
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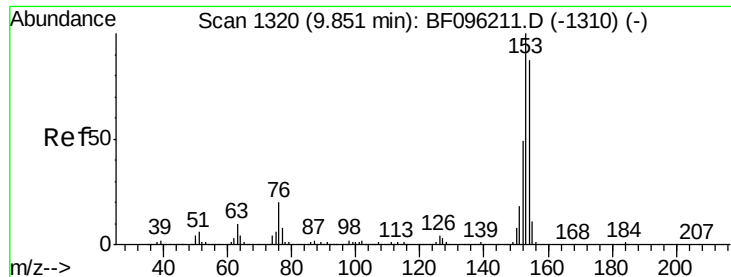
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#44
 2-Fluorobiphenyl
 Concen: 1.933 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	41176		
171	33.3	29.6	44.4	
170	22.4	19.8	29.8	





#51

Acenaphthene

Concen: 7.942 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF096220.D

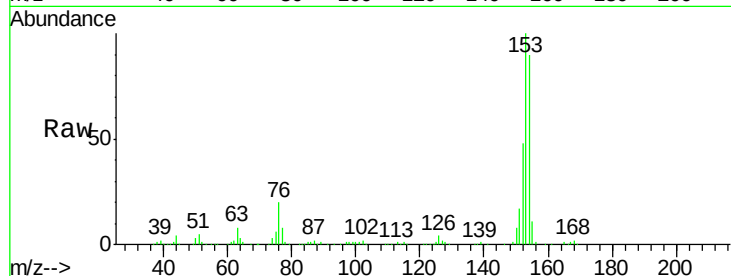
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Instrument :

BNA_F

ClientSampleId :

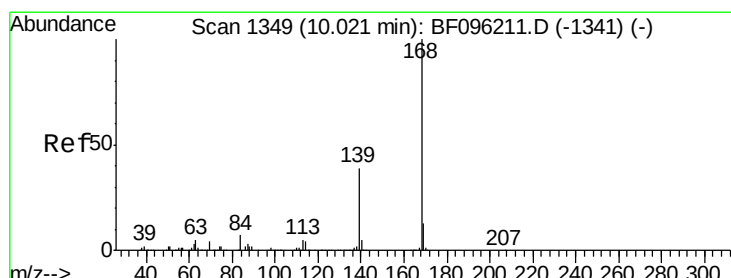
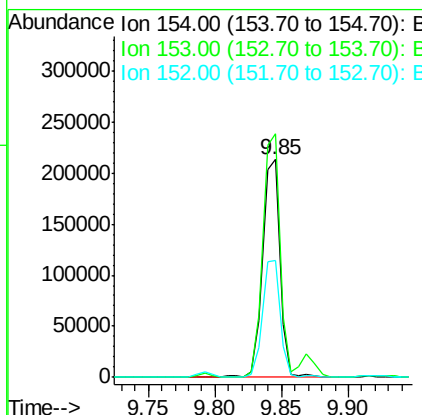
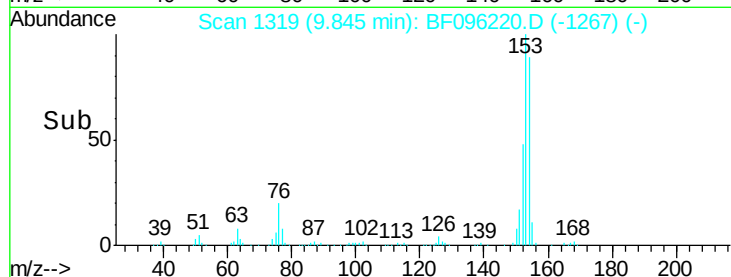
HR-05-062217-CDL



Tgt	Ion	Resp	Lower	Upper
154	100			
153	111.7	90.5	135.7	
152	53.8	43.6	65.4	

Manual Integrations
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#54

Dibenzofuran

Concen: 7.885 ng

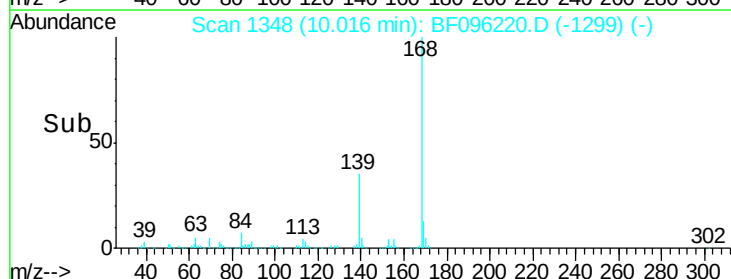
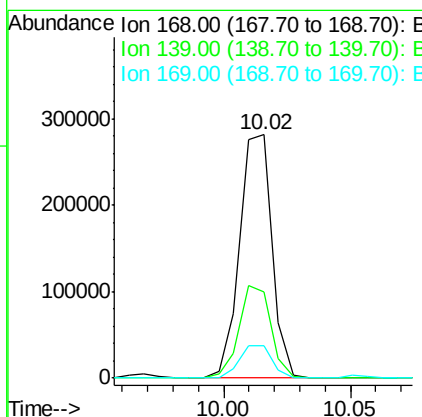
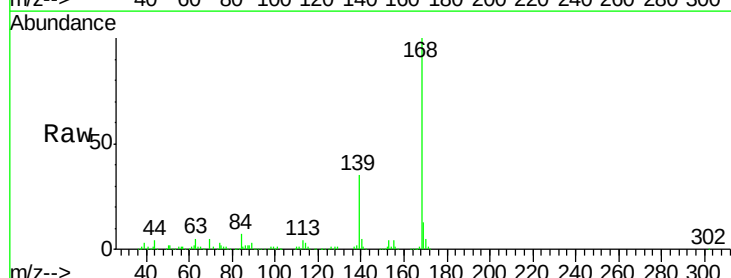
RT: 10.02 min Scan# 1348

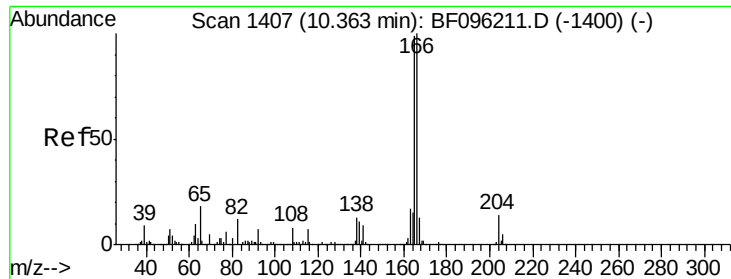
Delta R.T. -0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Tgt	Ion	Resp	Lower	Upper
168	100			
139	35.4	30.6	45.8	
169	13.4	10.8	16.2	





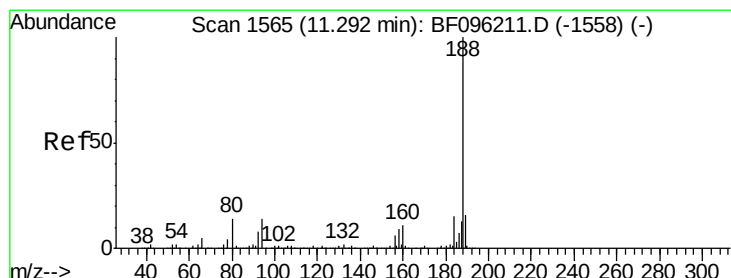
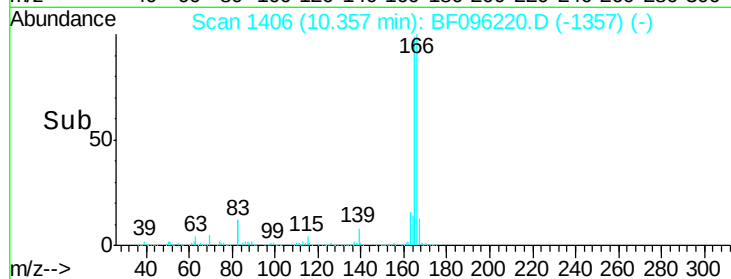
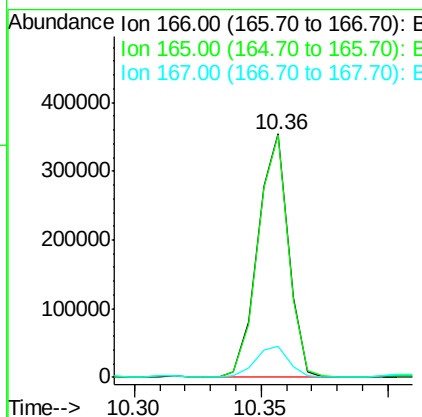
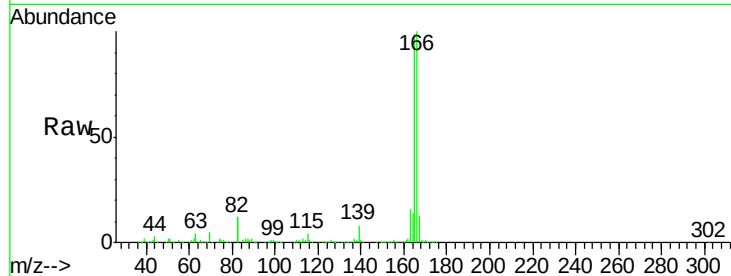
#57
Fluorene
Concen: 13.650 ng
RT: 10.36 min Scan# 1406
Delta R.T. -0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	297675		
165	99.5	78.8	118.2	
167	13.0	10.6	16.0	

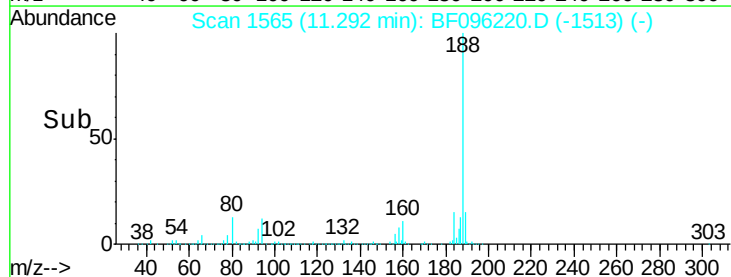
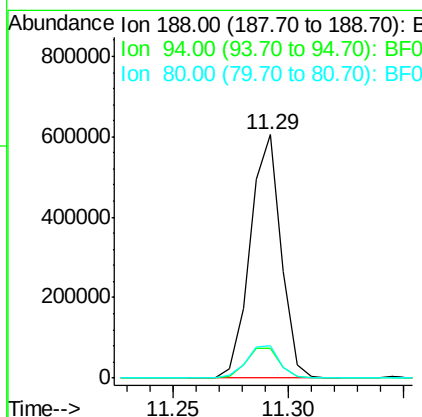
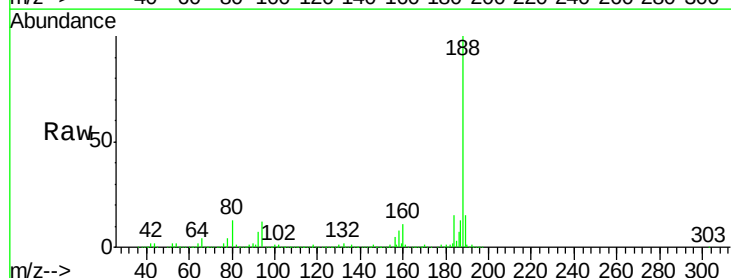
Manual Integrations
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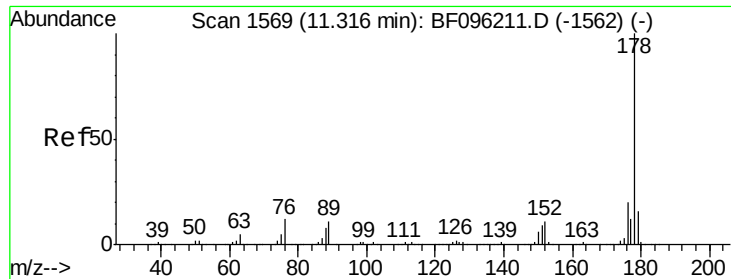
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#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	565162		
94	12.2	9.4	14.2	
80	13.1	10.2	15.2	





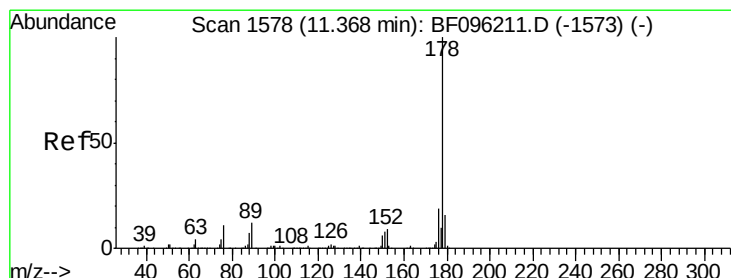
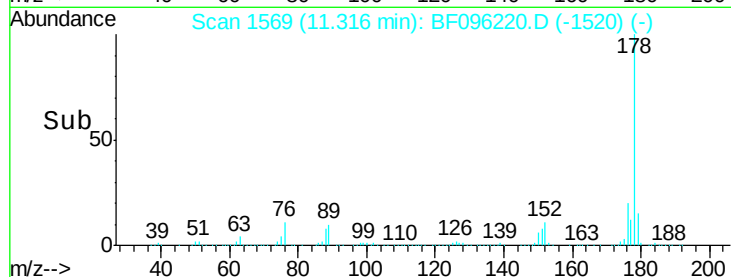
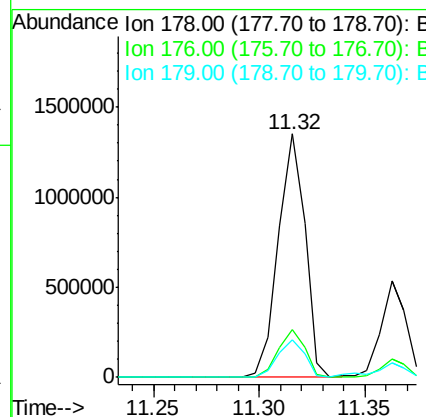
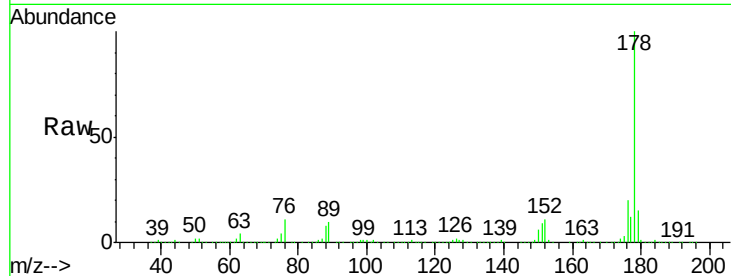
#70
 Phenanthrene
 Concen: 41.606 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Instrument :
 BNA_F
 ClientSampleId :
 HR-05-062217-CDL

Tgt Ion:178 Resp: 1195659
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 15.3 12.6 19.0

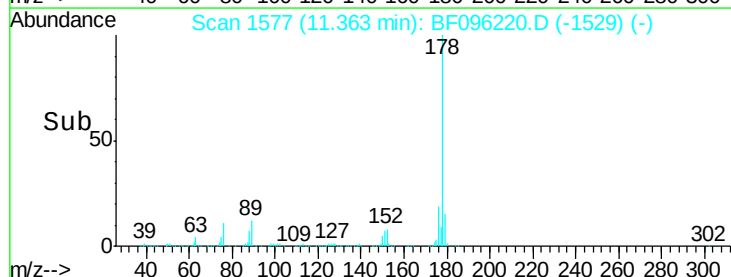
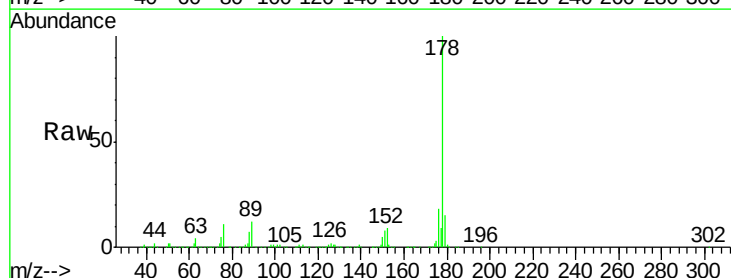
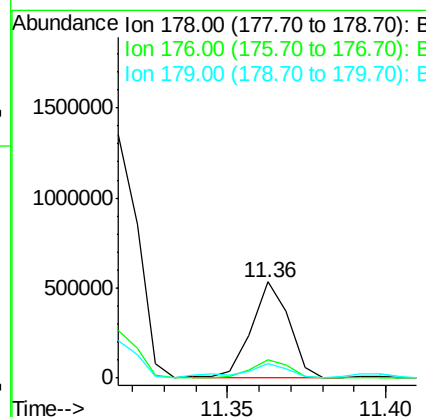
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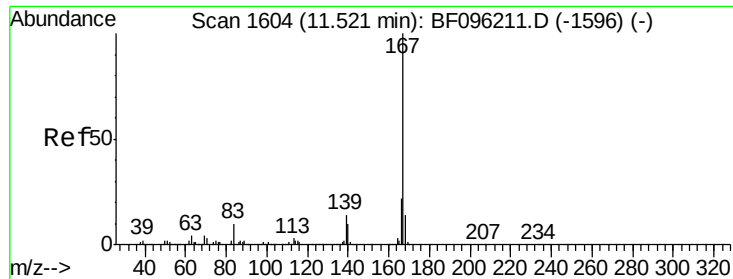
mohammad
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#71
 Anthracene
 Concen: 13.781 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion:178 Resp: 435255
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.8
 179 14.9 12.7 19.1





#72

Carbazole

Concen: 4.863 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF096220.D

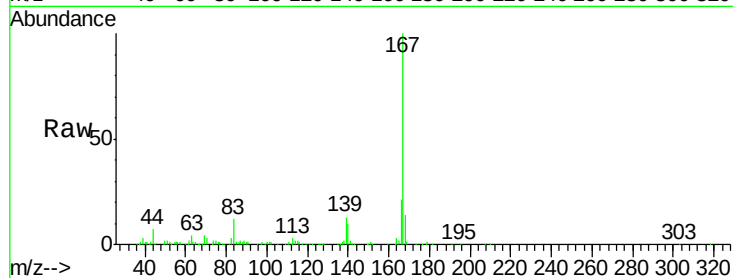
Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

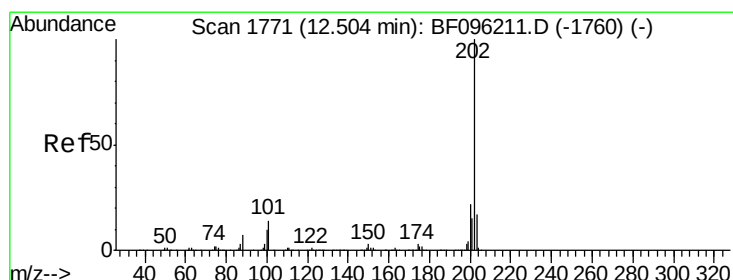
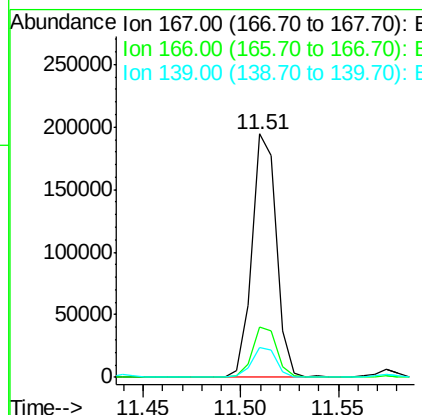
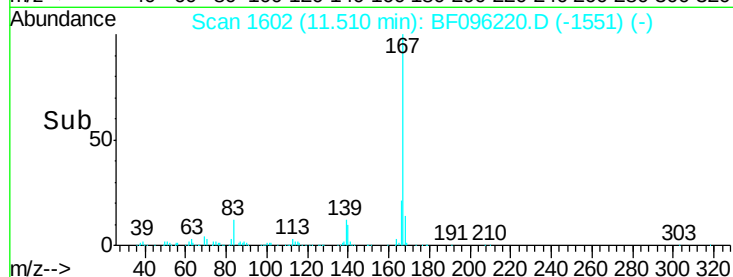
HR-05-062217-CDL



Tgt Ion:	167	Resp:	169544
Ion Ratio	Lower	Upper	
167	100		
166	20.7	18.1	27.1
139	12.5	11.7	17.5

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#74

Fluoranthene

Concen: 27.994 ng

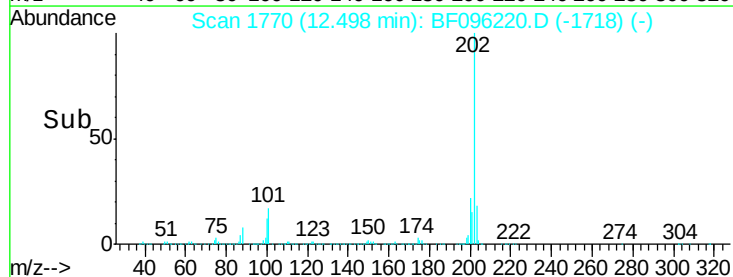
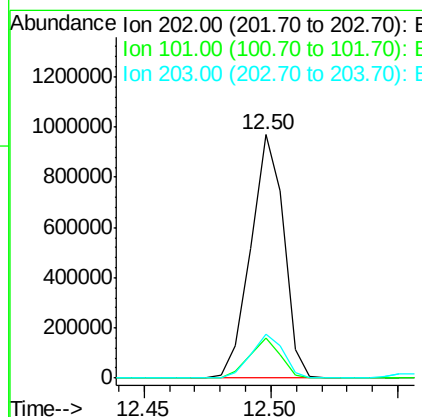
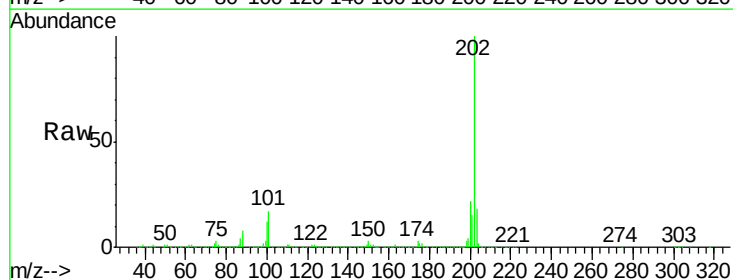
RT: 12.50 min Scan# 1770

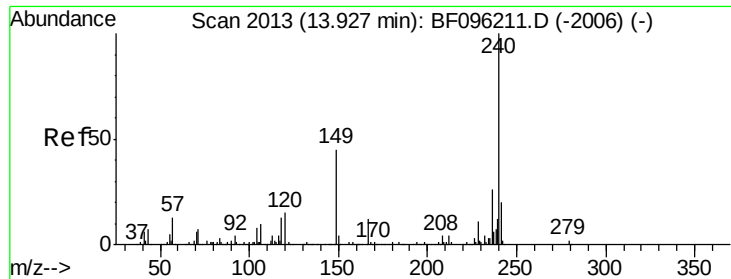
Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Tgt Ion:	202	Resp:	878848
Ion Ratio	Lower	Upper	
202	100		
101	16.7	0.0	33.2
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

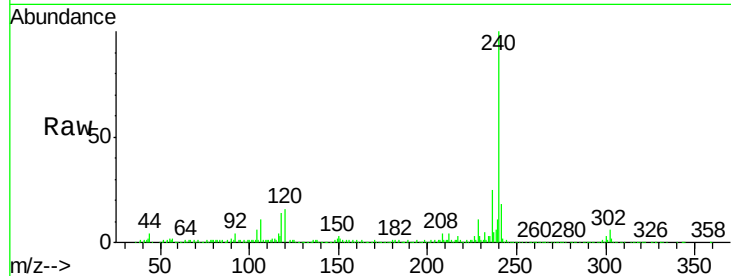
ClientSampleId :

HR-05-062217-CDL

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.0	5.8	8.8#
236	25.3	20.5	30.7

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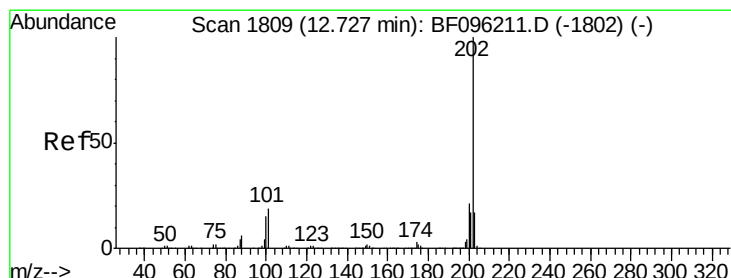
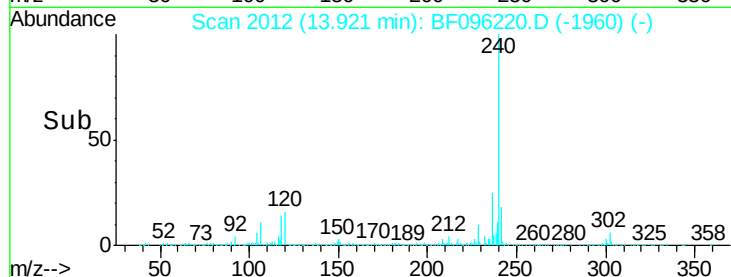
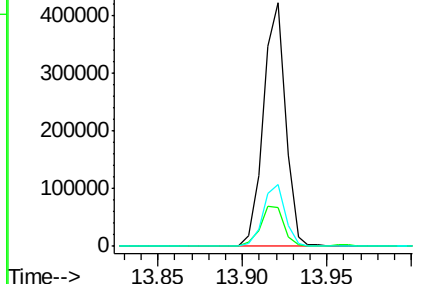
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 22.963 ng

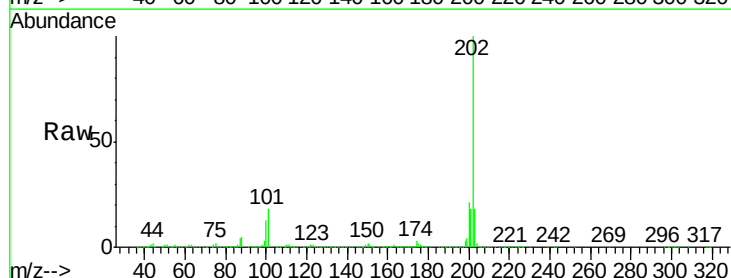
RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

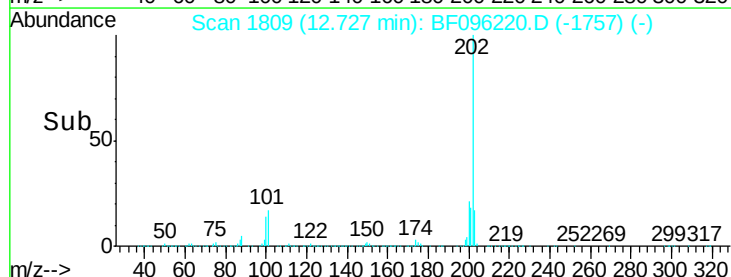
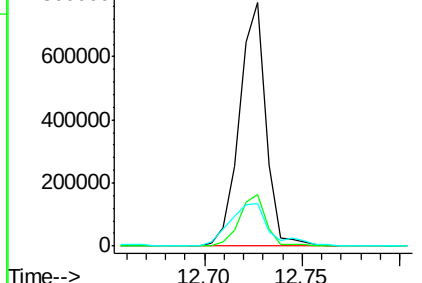
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4
203	17.7	14.4	21.6

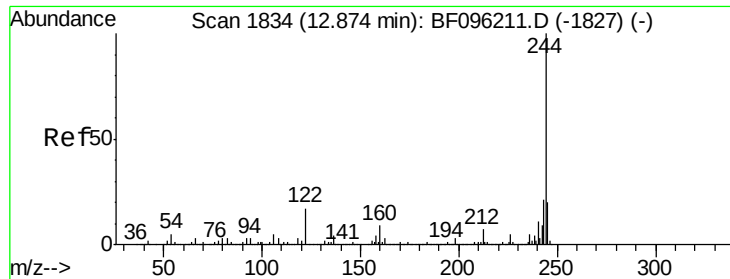


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.615 ng

RT: 12.87 min Scan# 1833

Delta R.T. -0.00 min

Lab File: BF096220.D

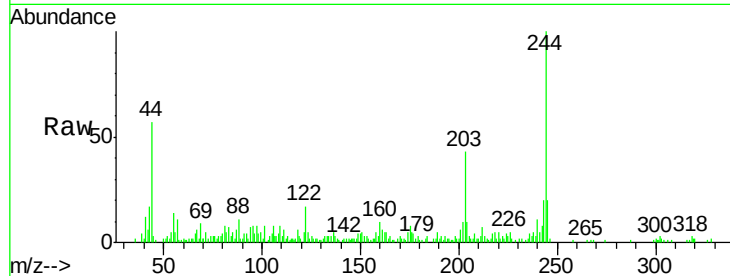
Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

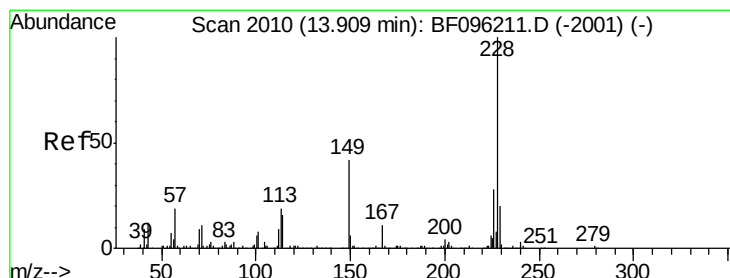
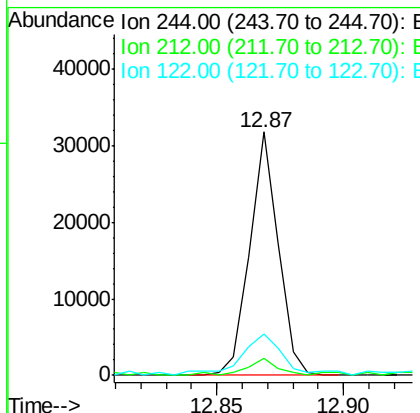
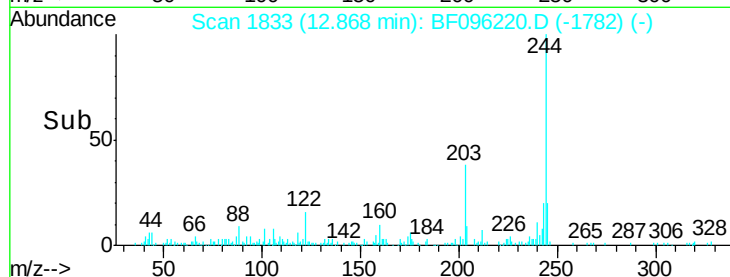
HR-05-062217-CDL



Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	17.1	10.3	15.5

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#80

Benzo(a)anthracene

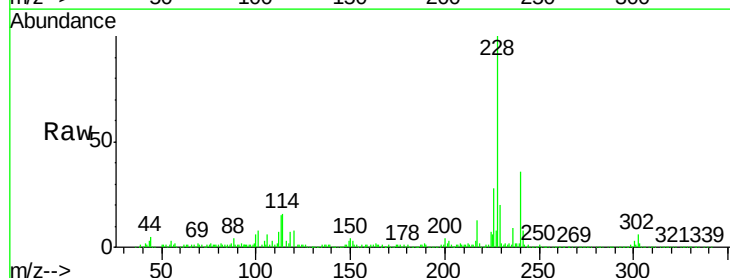
Concen: 13.944 ng

RT: 13.91 min Scan# 2010

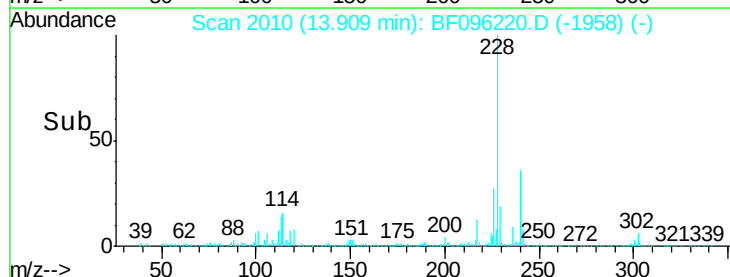
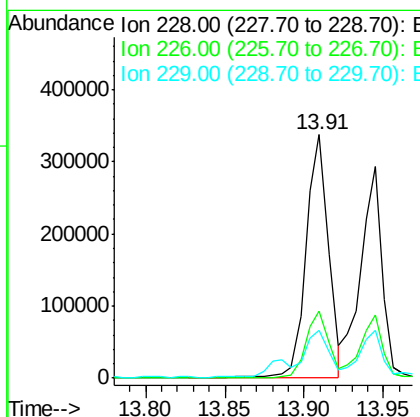
Delta R.T. 0.01 min

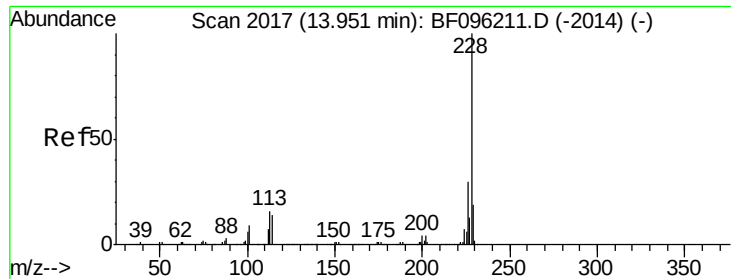
Lab File: BF096220.D

Acq: 27 Jun 2017 17:07



Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.6	33.8
229	19.6	16.3	24.5





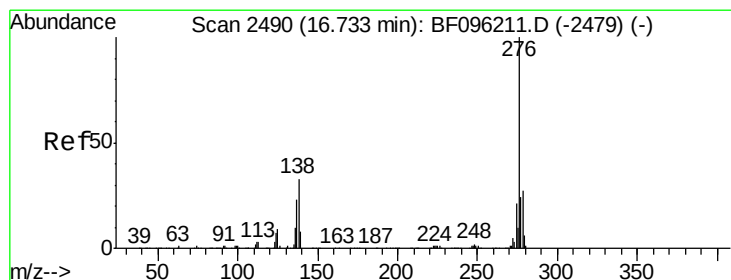
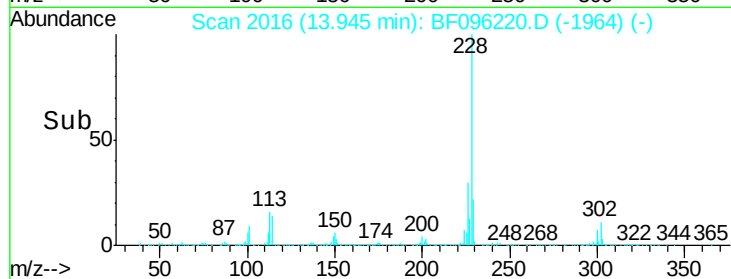
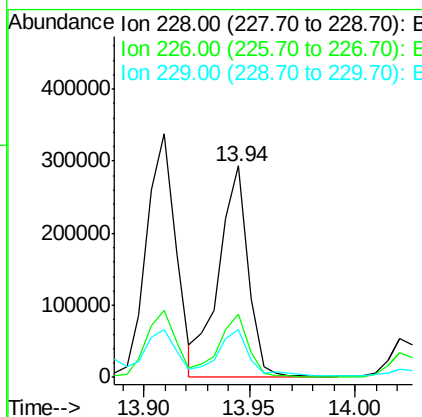
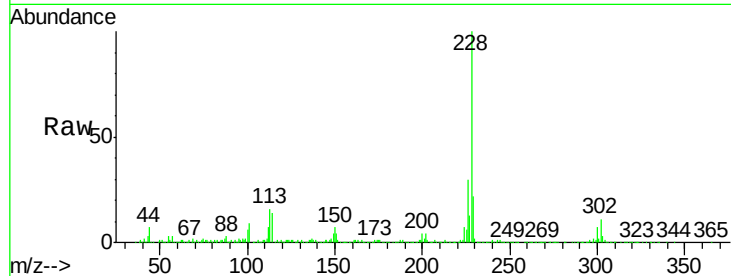
#82
Chrysene
Concen: 11.624 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	282153		
226	29.8	24.9	37.3	
229	22.4	15.8	23.6	

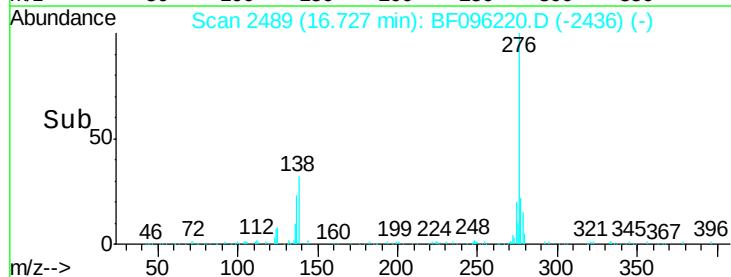
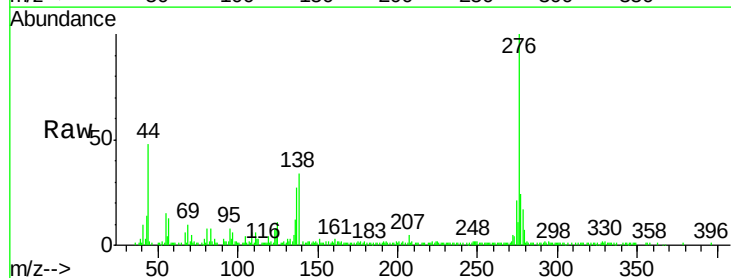
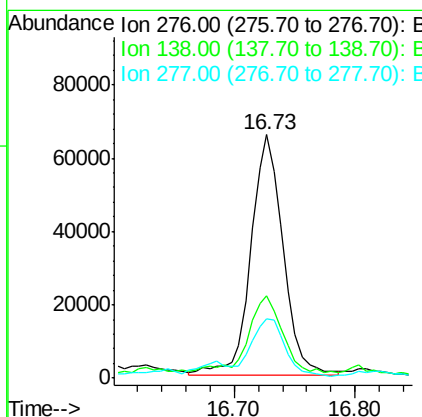
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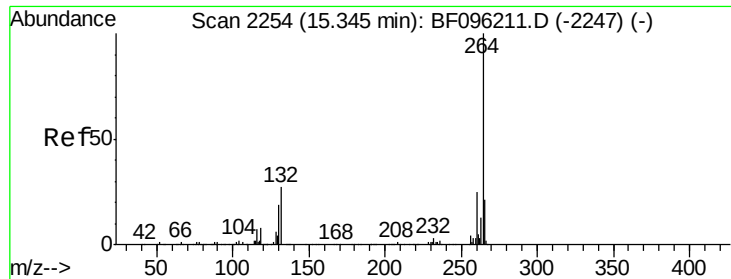
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.090 ng
RT: 16.73 min Scan# 2489
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	122707		
138	34.0	27.8	41.6	
277	24.2	20.2	30.4	





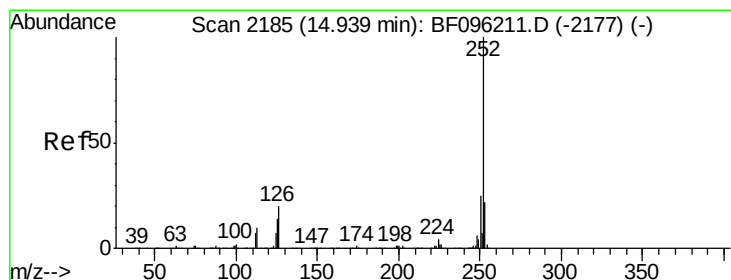
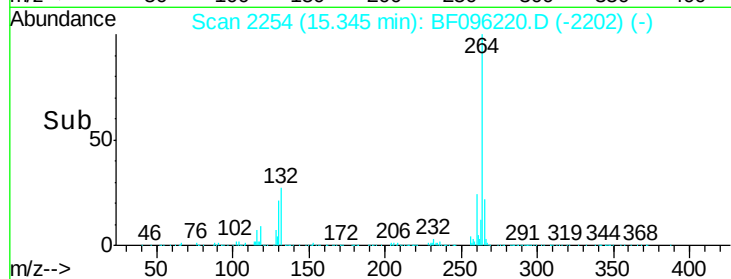
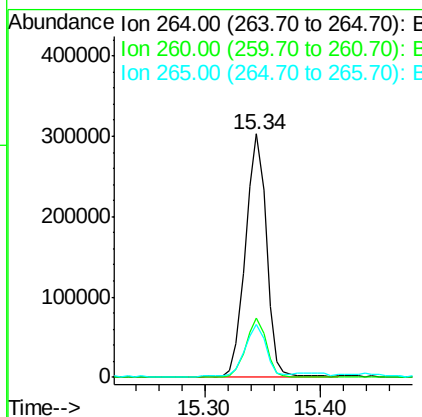
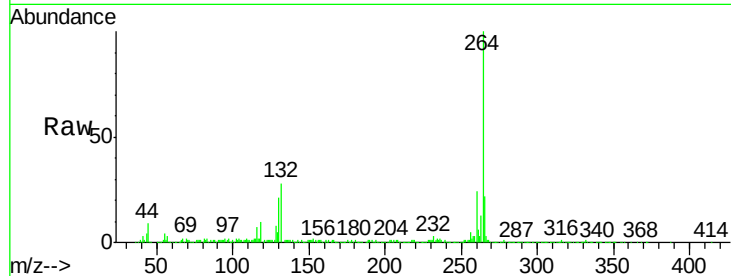
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2254
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	381815		
260	24.5	19.5	29.3	
265	22.0	17.2	25.8	

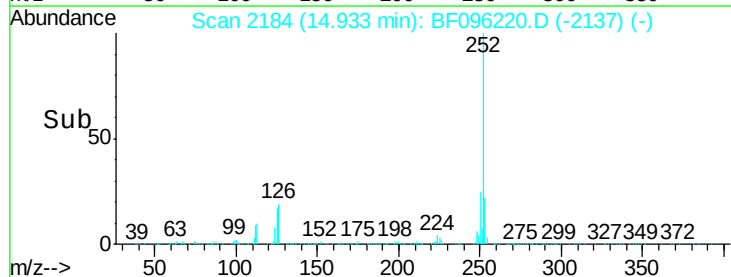
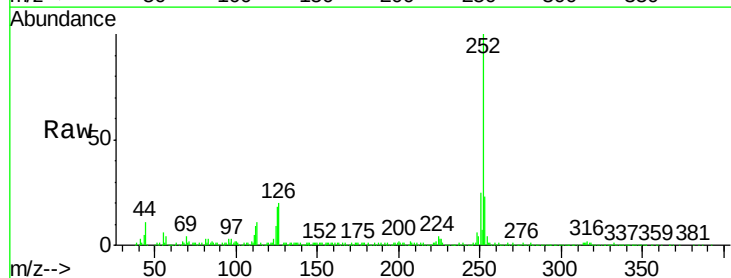
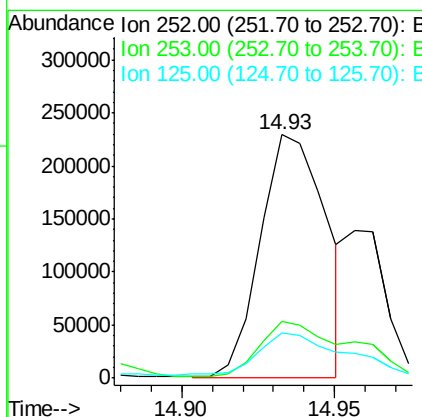
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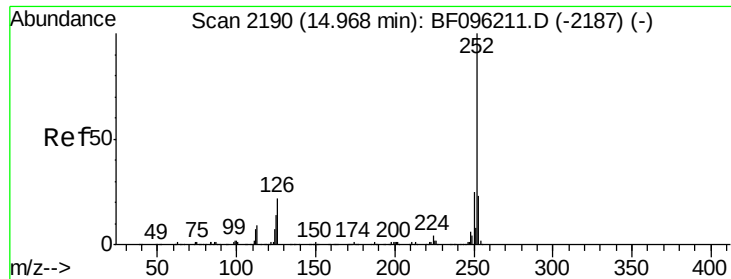
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#87
Benzo(b)fluoranthene
Concen: 13.709 ng m
RT: 14.93 min Scan# 2184
Delta R.T. -0.02 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	343851		
253	23.2	18.1	27.1	
125	18.4	9.8	14.8#	





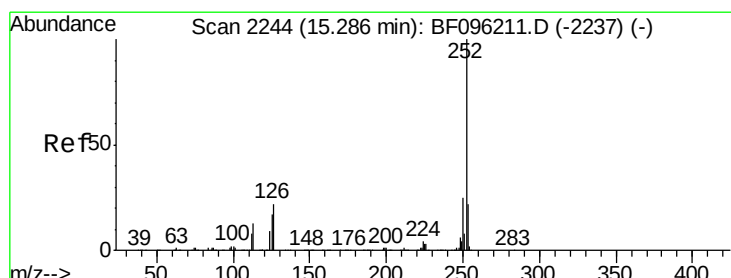
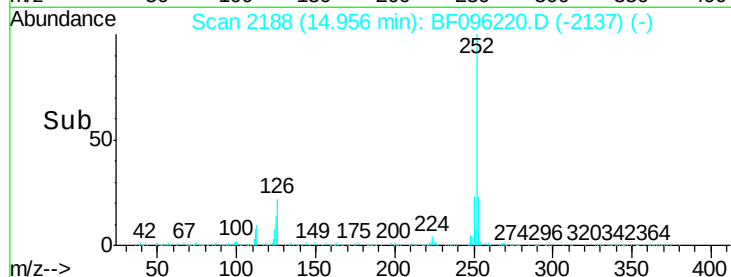
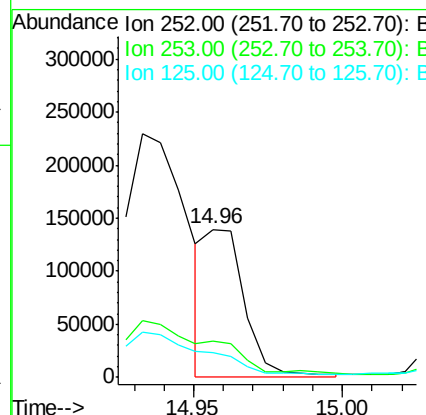
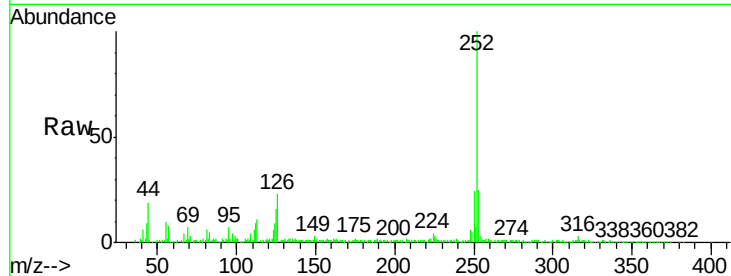
#88
Benzo(k)fluoranthene
Concen: 5.586 ng m
RT: 14.96 min Scan# 2188
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :
HR-05-062217-CDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.4	27.6
125	16.4	13.1	19.7

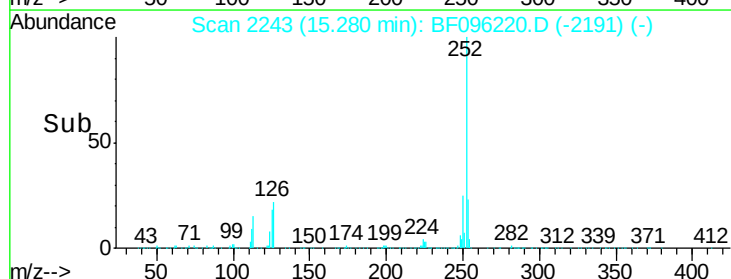
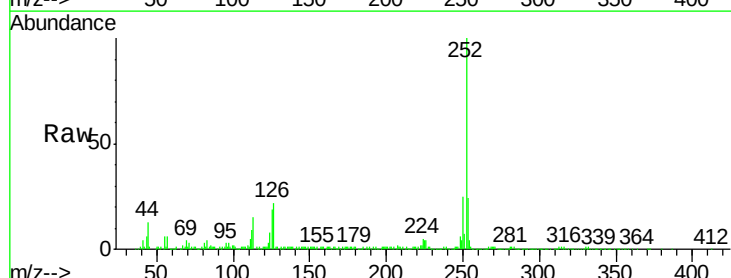
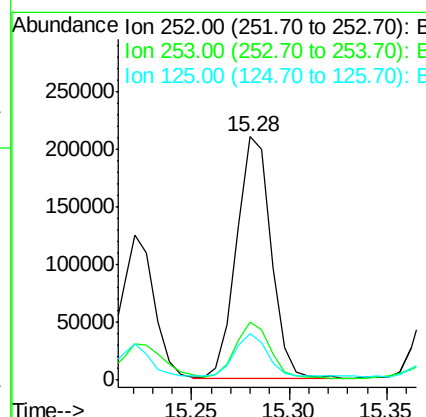
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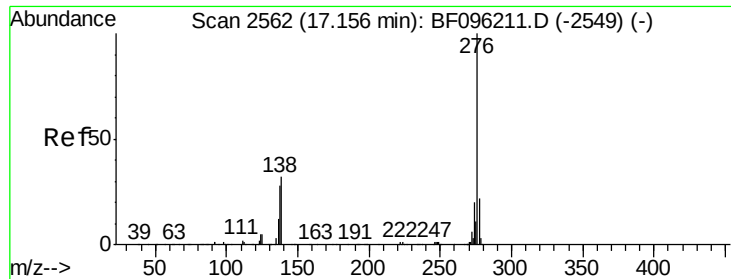
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#89
Benzo(a)pyrene
Concen: 11.686 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	19.3	11.0	16.4#





#91
 Benzo(g,h,i)perylene
 Concen: 5.801 ng
 RT: 17.14 min Scan# 2559
 Delta R.T. 0.01 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Instrument :
 BNA_F
 ClientSampleId :
 HR-05-062217-CDL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.6	28.0
138	33.9	25.4	38.0

Manual Integrations
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