

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062417\
 Data File : BF096187.D
 Acq On : 24 Jun 2017 13:27
 Operator : SJ/MA
 Sample : I3872-07 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: Jun 29 13:27:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	65229	20.00	ng	-0.03
21) Naphthalene-d8	9.29	136	269627	20.00	ng	-0.04
38) Acenaphthene-d10	12.12	164	108946	20.00	ng	-0.04
63) Phenanthrene-d10	14.51	188	169042	20.00	ng	-0.03
75) Chrysene-d12	18.25	240	138513	20.00	ng	-0.02
86) Perylene-d12	19.93	264	114910	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	10982m	2.68	ng	0.18
7) Phenol-d6	7.01	99	20277m	4.14	ng	0.14
23) Nitrobenzene-d5	8.27	82	8951m	2.06	ng	0.05
41) 2,4,6-Tribromophenol	13.45	330	2471	2.56	ng	0.00
44) 2-Fluorobiphenyl	11.08	172	25986	3.32	ng	-0.03
78) Terphenyl-d14	16.90	244	16215	2.91	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	9.33	128	548087	40.50	ng	99
37) 2-Methylnaphthalene	10.46	142	114941	12.57	ng	97
45) 1,1'-Biphenyl	11.23	154	26077	2.90	ng	98
51) Acenaphthene	12.17	154	109492	15.80	ng	99
54) Dibenzofuran	12.46	168	148016	15.18	ng	94
57) Fluorene	13.01	166	175422	20.67	ng	99
70) Phenanthrene	14.56	178	800715	82.09	ng	98
71) Anthracene	14.63	178	272714	26.78	ng	97
72) Carbazole	14.95	167	99481	10.03	ng	96
74) Fluoranthene	16.34	202	638309	66.12	ng	98
77) Pyrene	16.65	202	504517	48.82	ng	# 95
80) Benzo(a)anthracene	18.24	228	251298	31.20	ng	95
82) Chrysene	18.29	228	201118	24.99	ng	99
85) Indeno(1,2,3-cd)pyrene	21.09	276	76372	11.09	ng	# 89
87) Benzo(b)fluoranthene	19.53	252	228930m	31.82	ng	
88) Benzo(k)fluoranthene	19.55	252	68165m	9.91	ng	
89) Benzo(a)pyrene	19.87	252	165545	25.03	ng	97
90) Dibenzo(a,h)anthracene	21.09	278	20232	3.61	ng	# 79
91) Benzo(a,h,i)perylene	21.41	276	66608	11.65	ng	96

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

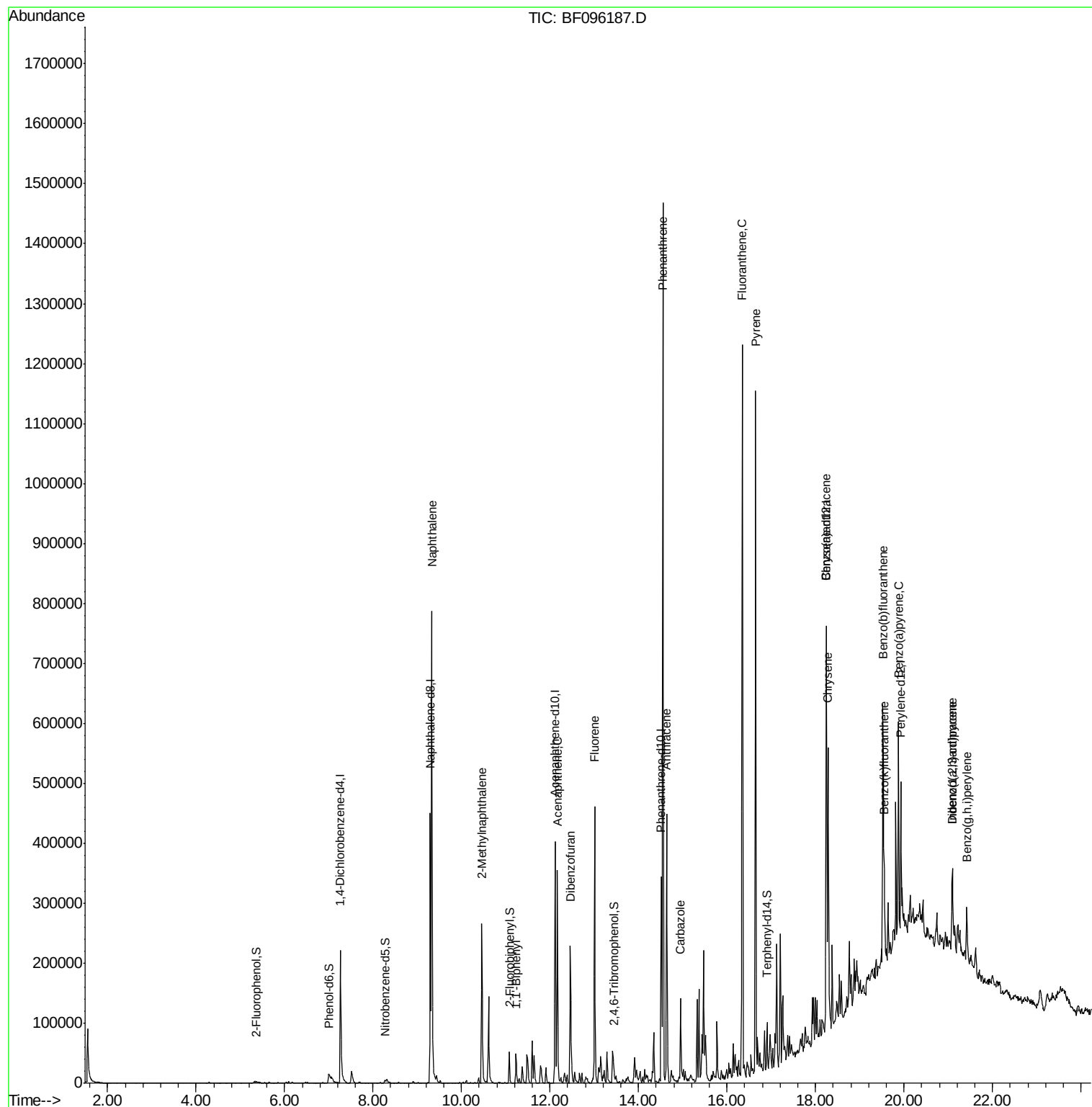
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062417\
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ALS Vial : 9 Sample Multiplier: 1

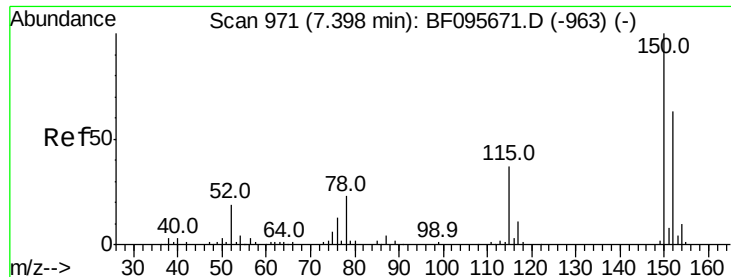
Instrument :
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#1

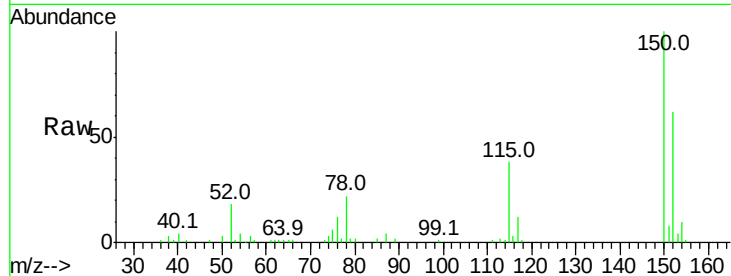
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.26 min Scan# 982
Delta R.T. -0.03 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

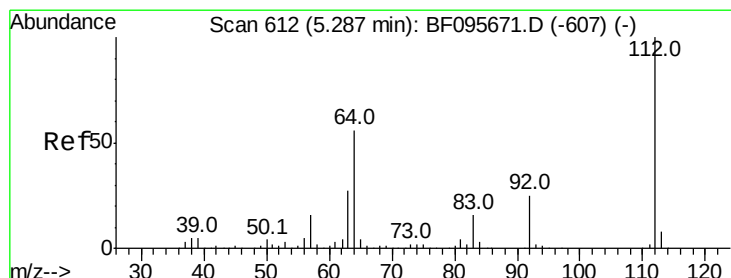
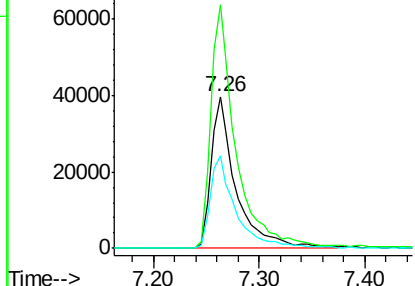
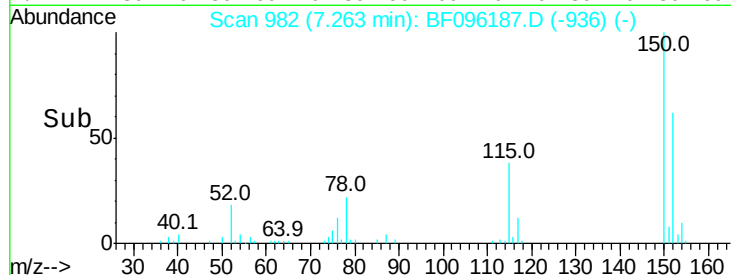
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.2	189.2
115	60.9	52.2	78.2

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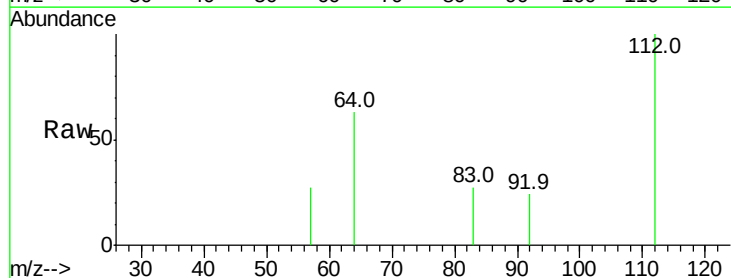
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



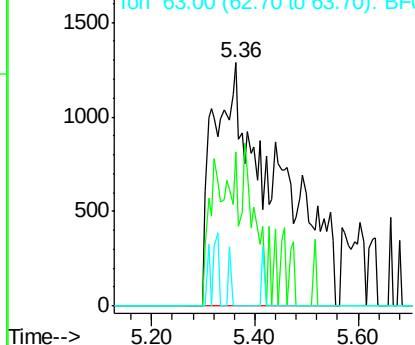
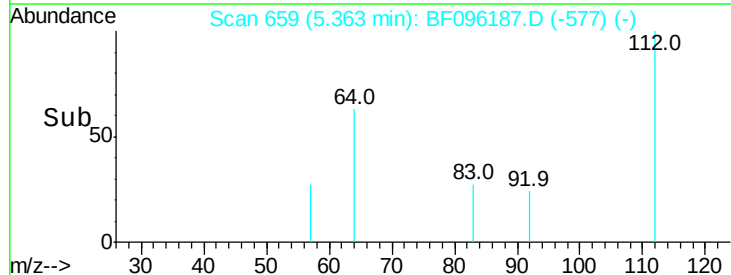
#5

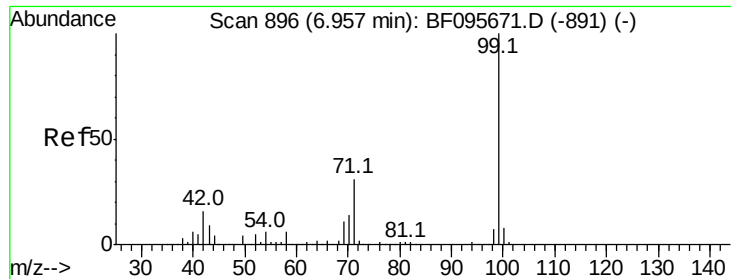
2-Fluorophenol
Concen: 2.68 ng m
RT: 5.36 min Scan# 659
Delta R.T. 0.18 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.2	46.0	69.0
63	0.0	23.4	35.0



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: 4.14 ng/mL

RT: 7.01 min Scan# 939

Delta R.T. 0.14 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Instrument :

BNA_F

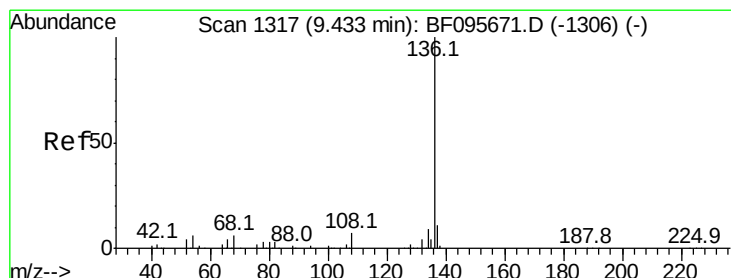
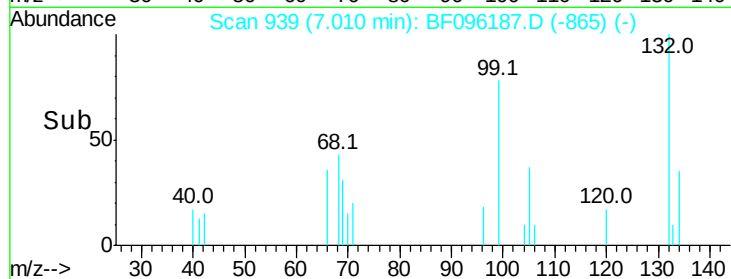
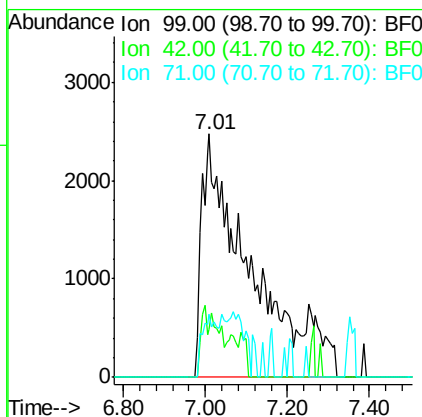
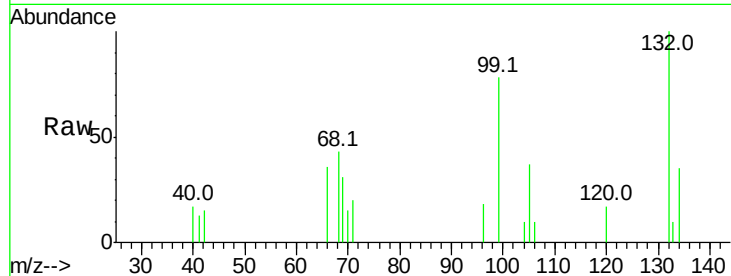
ClientSampleId :

HR-05-062217-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		20277		
42	19.9	13.5	20.3		
71	26.1	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

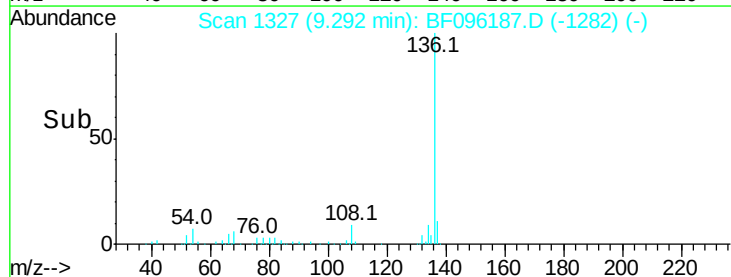
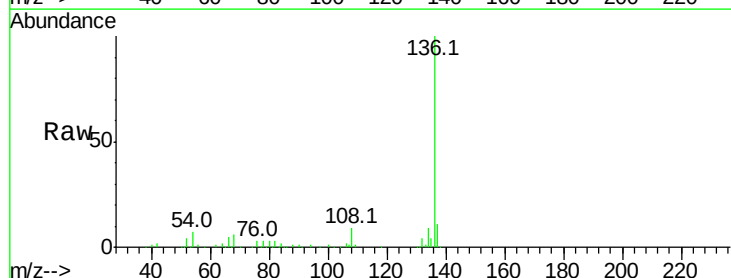
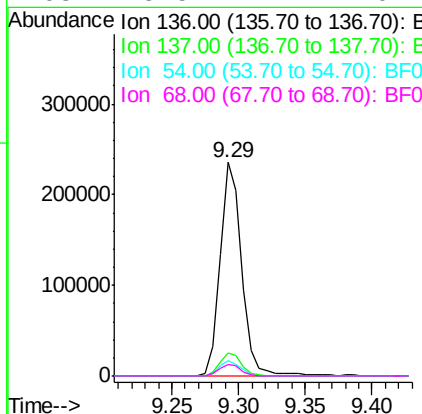
RT: 9.29 min Scan# 1327

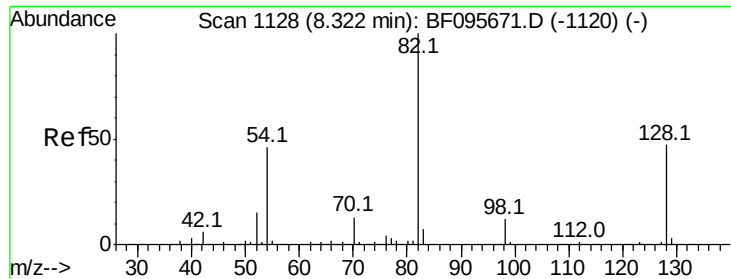
Delta R.T. -0.04 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		269627		
137	11.0	8.5	12.7		
54	7.1	4.9	7.3		
68	5.5	4.1	6.1		





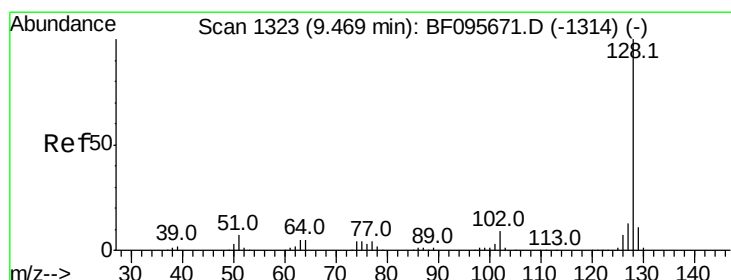
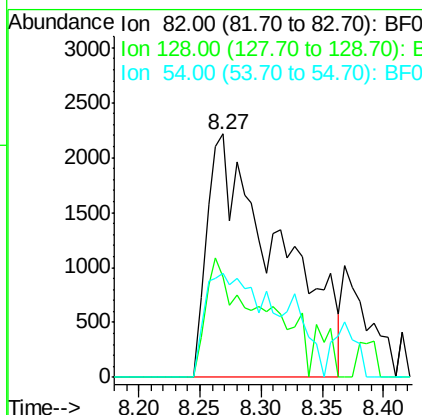
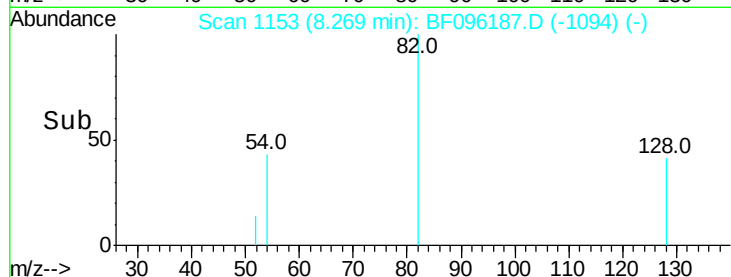
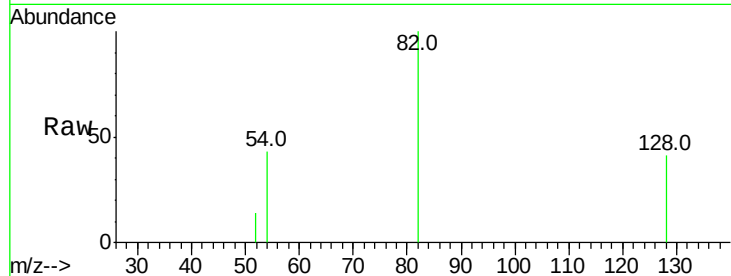
#23
Nitrobenzene-d5
Concen: 2.06 ng/ml
RT: 8.27 min Scan# 1153
Delta R.T. 0.05 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.0	51.0
54	43.0	42.2	63.2

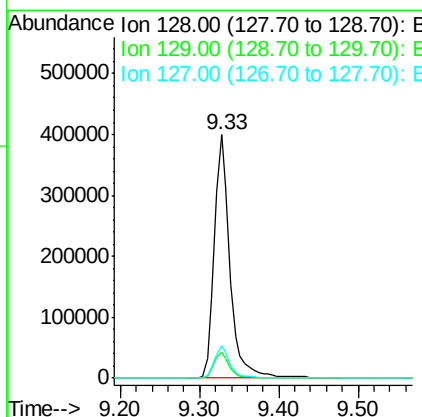
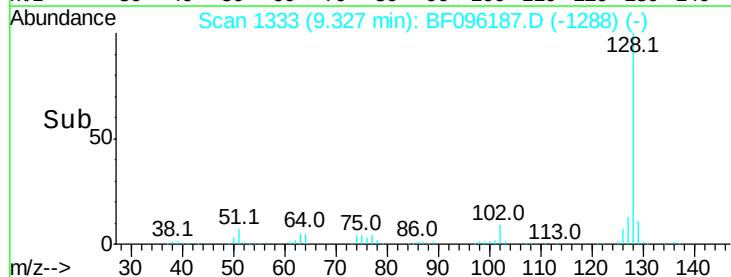
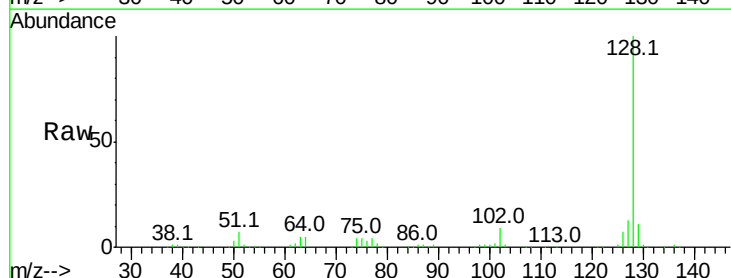
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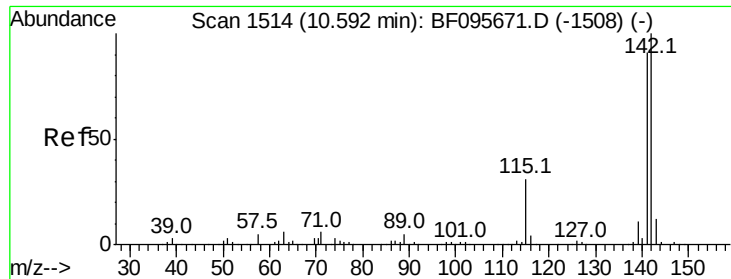
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#31
Naphthalene
Concen: 40.50 ng
RT: 9.33 min Scan# 1333
Delta R.T. -0.04 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.5	10.8	16.2





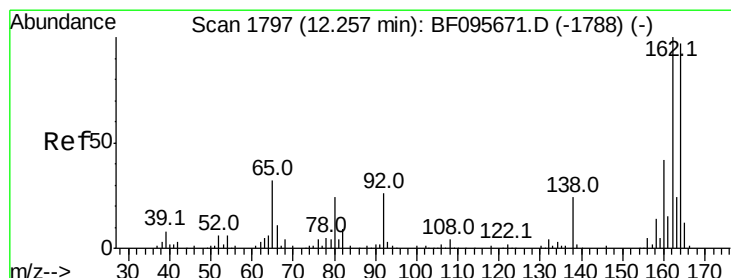
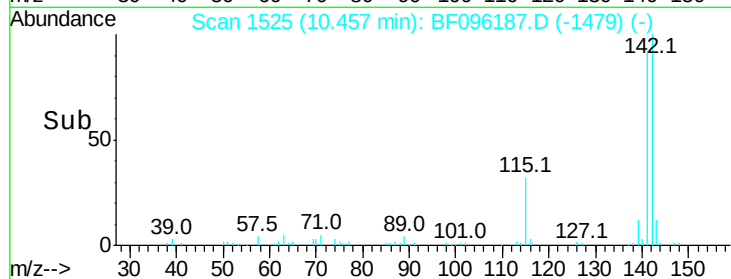
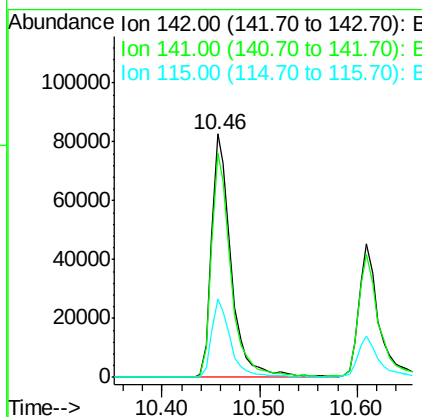
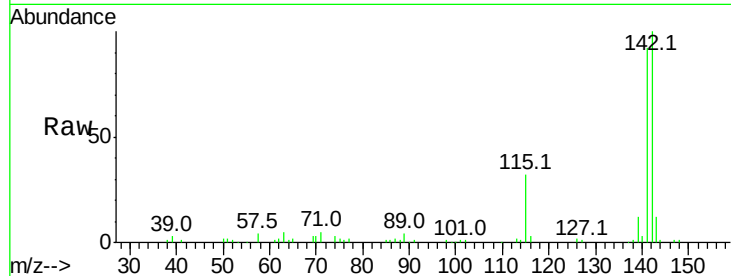
#37
 2-Methylnaphthalene
 Concen: 12.57 ng
 RT: 10.46 min Scan# 1525
 Delta R.T. -0.03 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.2	71.3	106.9
115	32.2	27.1	40.7

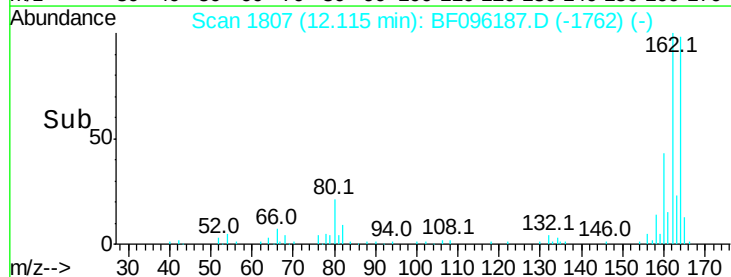
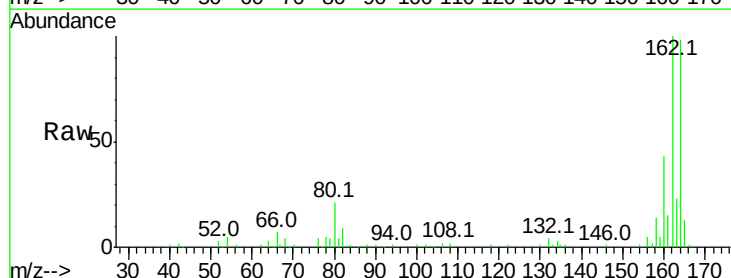
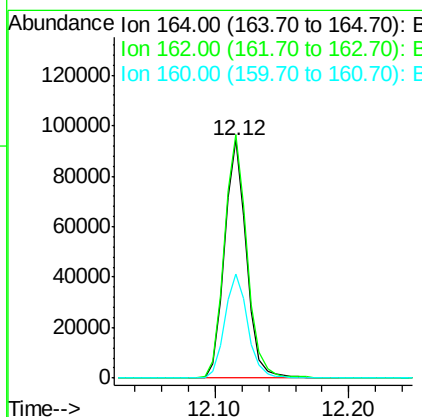
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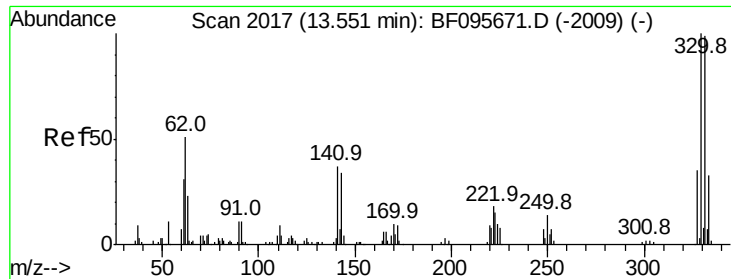
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.12 min Scan# 1807
 Delta R.T. -0.04 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.6	123.8
160	43.7	36.2	54.2





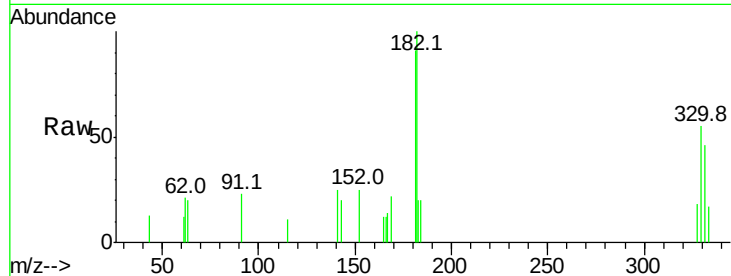
#41
 2,4,6-Tribromophenol
 Concen: 2.56 ng
 RT: 13.45 min Scan# 2034
 Delta R.T. -0.00 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.6	76.6	115.0
141	29.7	31.4	47.2#

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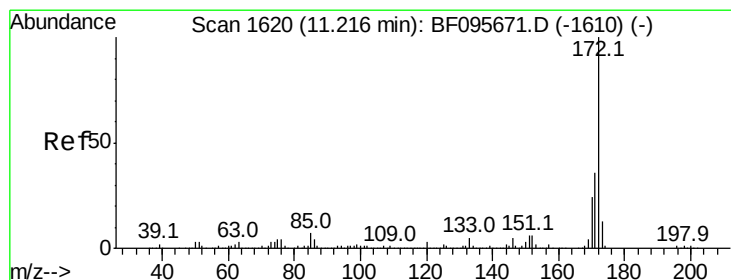
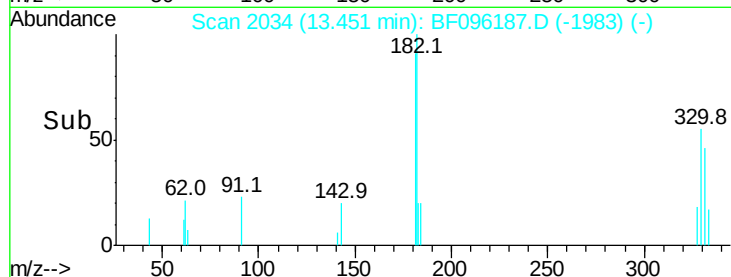
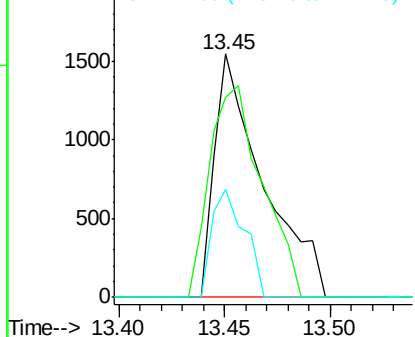


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 3.32 ng
 RT: 11.08 min Scan# 1631
 Delta R.T. -0.03 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

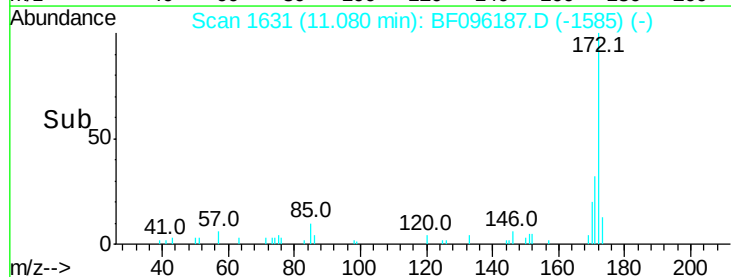
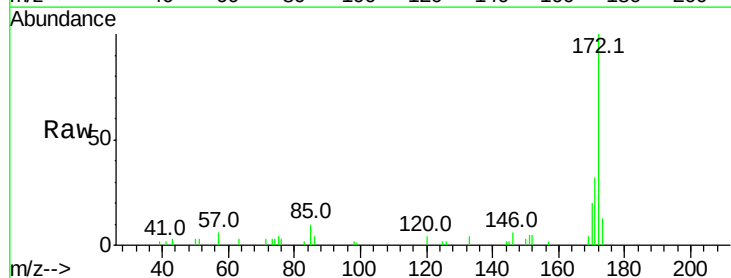
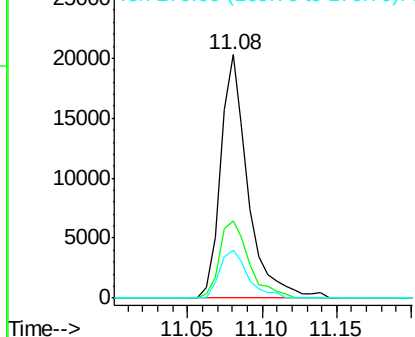
Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.9	29.6	44.4
170	19.7	19.8	29.8#

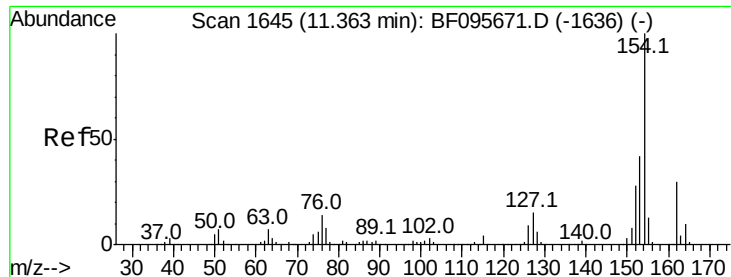
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 2.90 ng

RT: 11.23 min Scan# 1657

Delta R.T. -0.02 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Instrument :

BNA_F

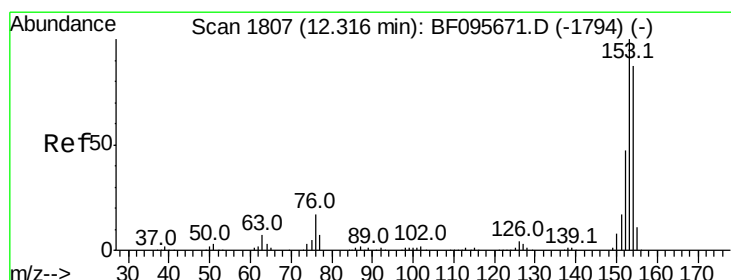
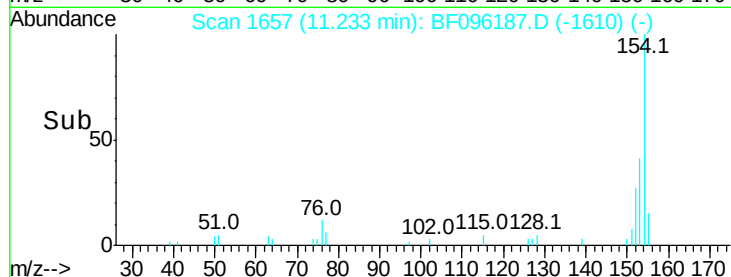
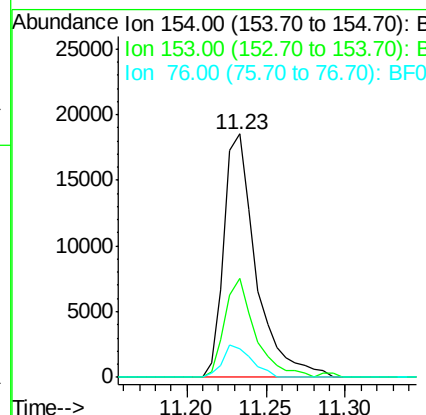
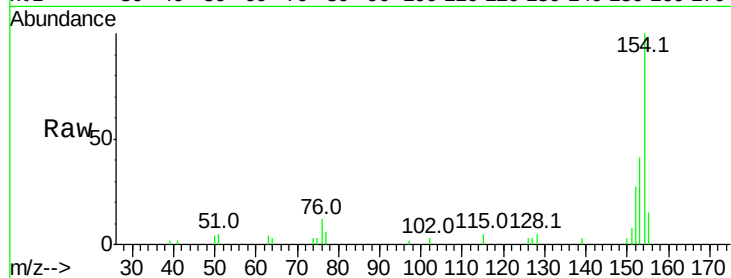
ClientSampleId :

HR-05-062217-C

Tot Ion:	154	Resp:	26077
Ion Ratio	Lower	Upper	
154	100		
153	40.7	21.2	61.2
76	11.8	0.0	29.9

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#51

Acenaphthene

Concen: 15.80 ng

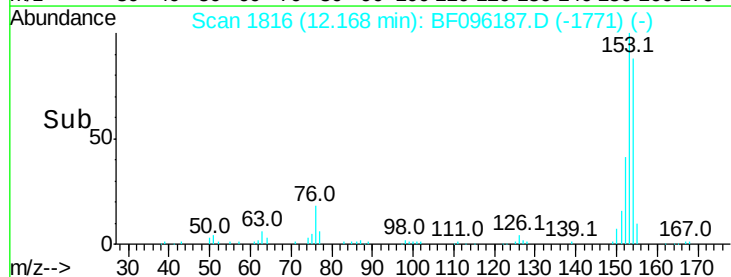
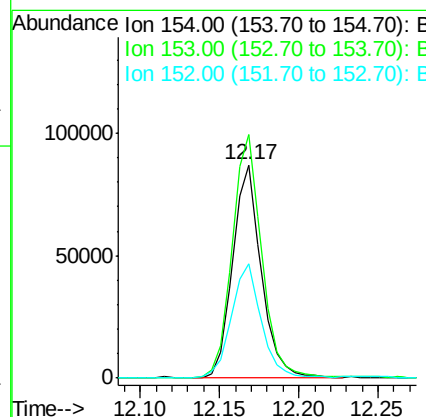
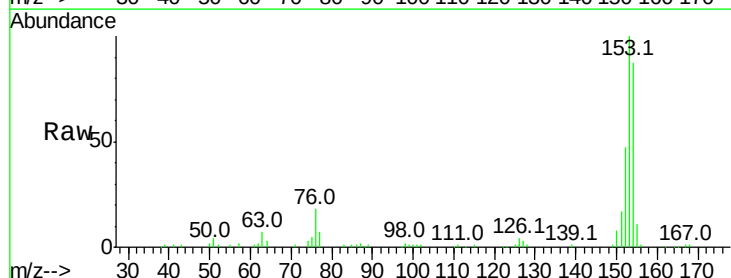
RT: 12.17 min Scan# 1816

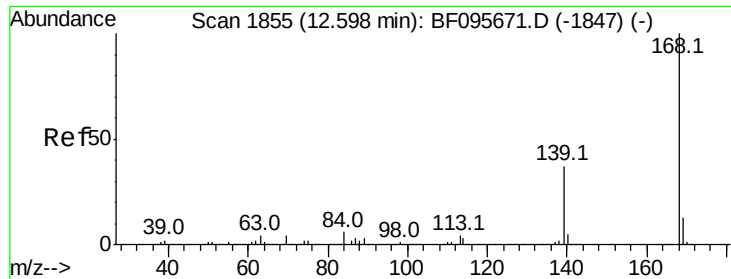
Delta R.T. -0.04 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Tgt Ion:	154	Resp:	109492
Ion Ratio	Lower	Upper	
154	100		
153	114.3	90.5	135.7
152	53.4	43.6	65.4





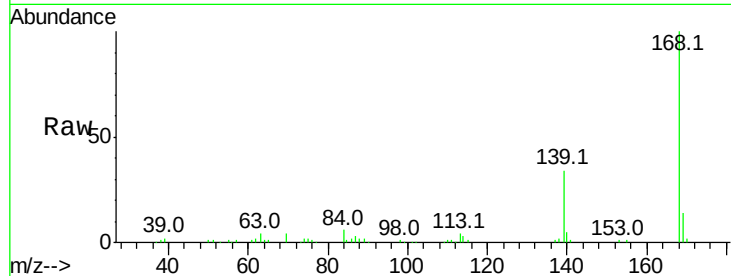
#54
Dibenzenofuran
Concen: 15.18 ng
RT: 12.46 min Scan# 1866
Delta R.T. -0.03 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Instrument :
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ClientSampleId :
HR-05-062217-C

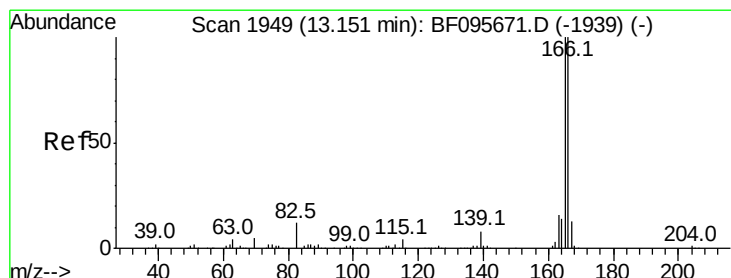
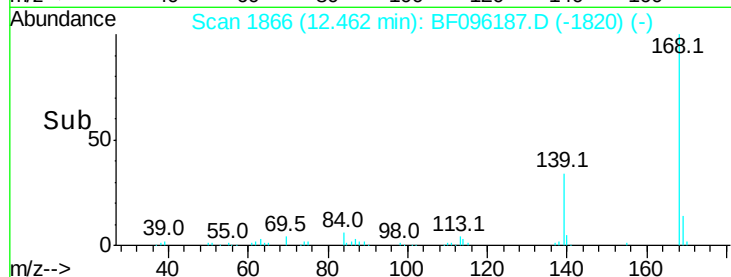
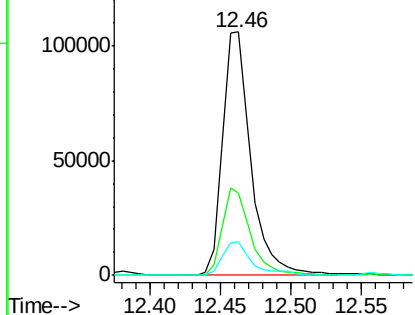
Tot Ion	Ratio	Resp	Lower	Upper
168	100	148016		
139	33.8		30.6	45.8
169	13.8		10.8	16.2

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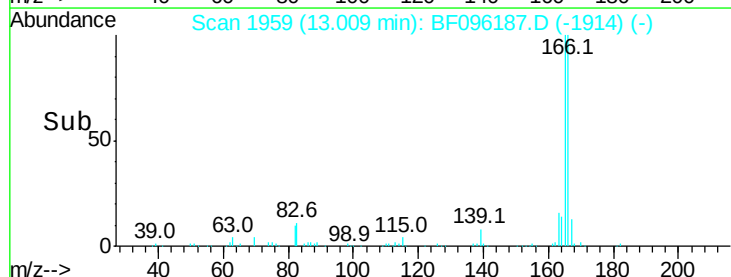
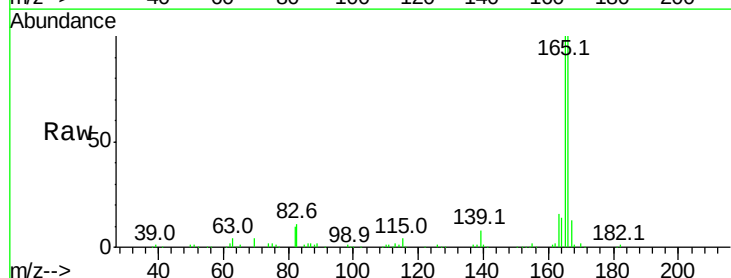
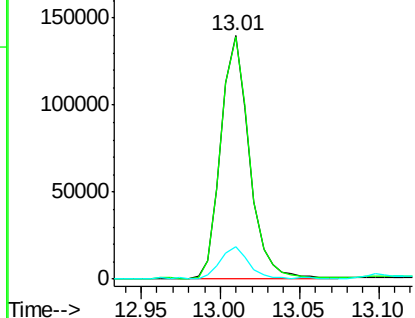
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

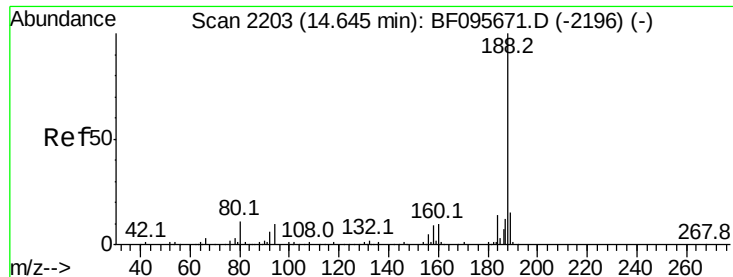


#57
Fluorene
Concen: 20.67 ng
RT: 13.01 min Scan# 1959
Delta R.T. -0.04 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	175422		
165	99.6		78.8	118.2
167	13.3		10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





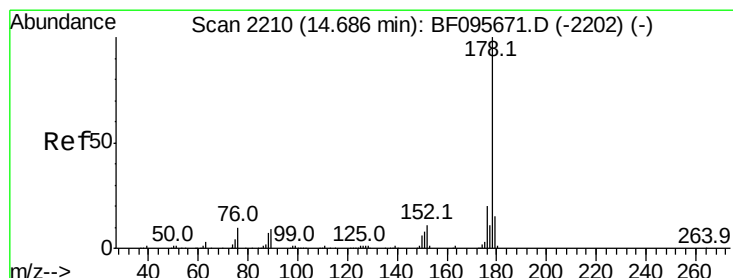
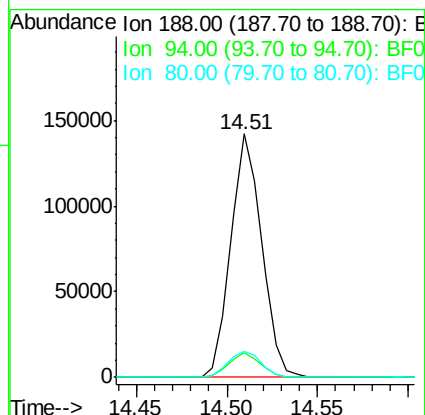
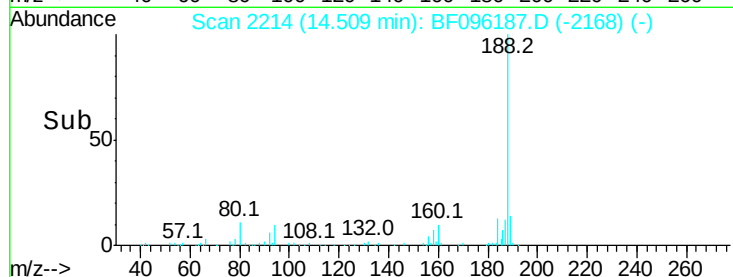
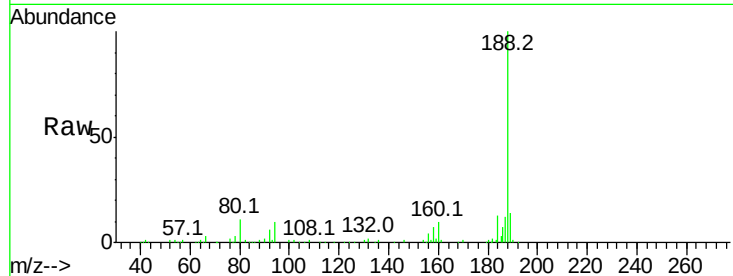
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.51 min Scan# 2214
Delta R.T. -0.03 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.2	9.4	14.2
80	10.5	10.2	15.2

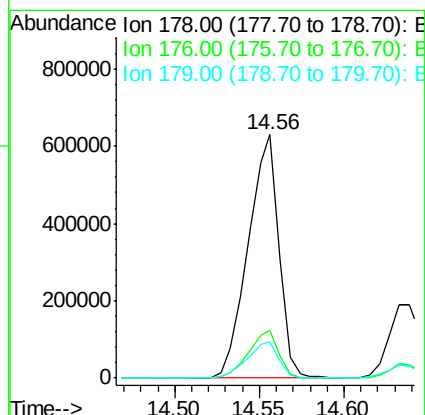
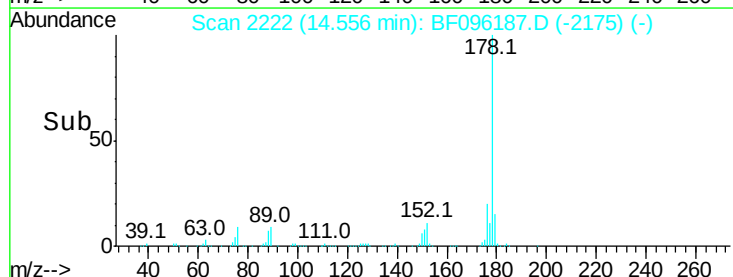
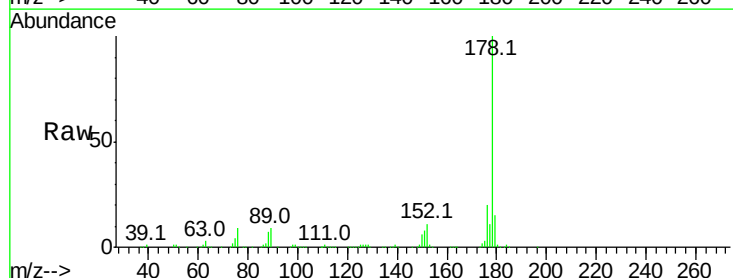
Manual Integrations
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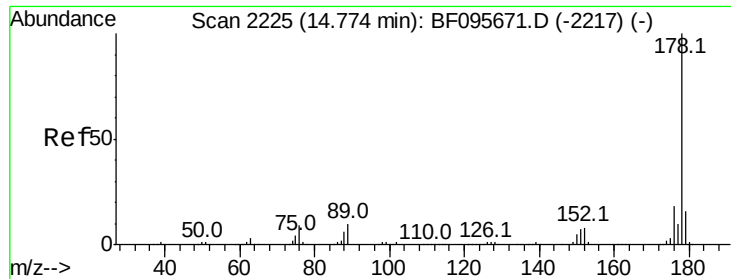
mohammad
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#70
Phenanthrene
Concen: 82.09 ng
RT: 14.56 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.6	16.2	24.4
179	14.9	12.6	19.0





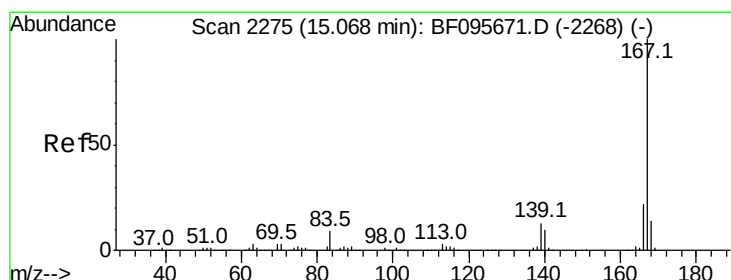
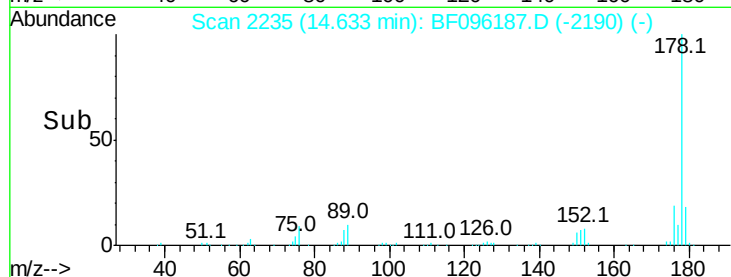
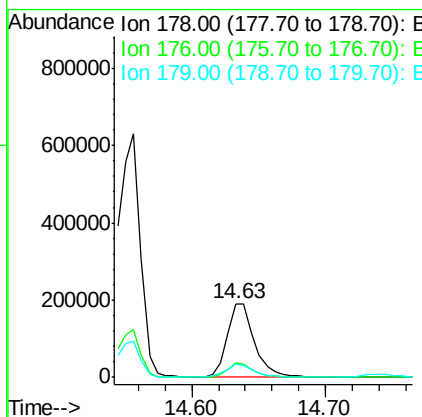
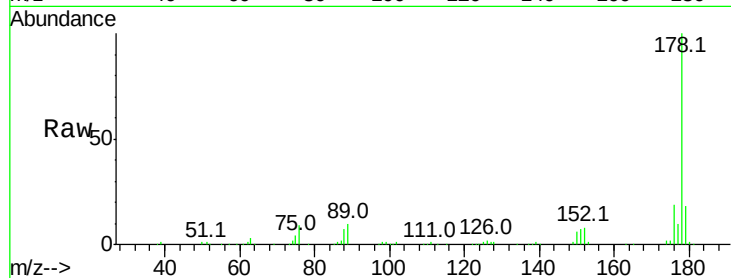
#71
 Anthracene
 Concen: 26.78 ng
 RT: 14.63 min Scan# 2235
 Delta R.T. -0.04 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	17.9	12.7	19.1

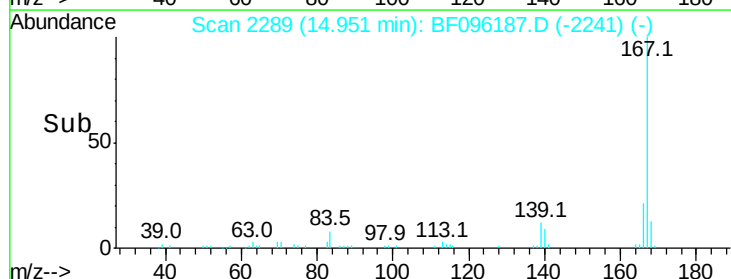
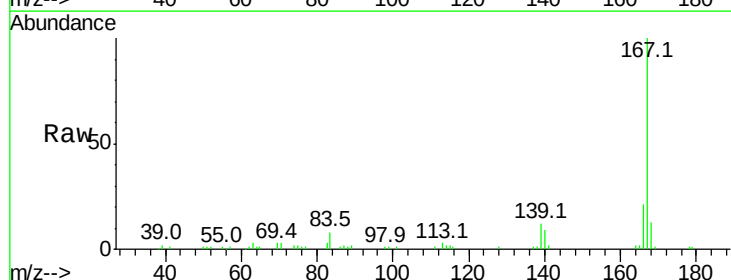
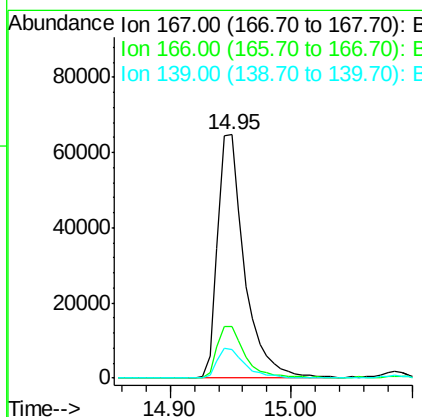
Manual Integrations
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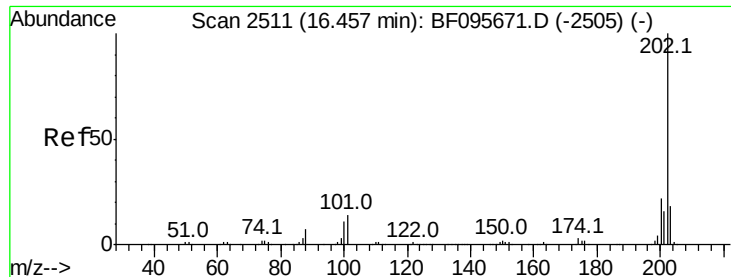
mohammad
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#72
 Carbazole
 Concen: 10.03 ng
 RT: 14.95 min Scan# 2289
 Delta R.T. -0.02 min
 Lab File: BF096187.D
 Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.4	18.1	27.1
139	11.8	11.7	17.5





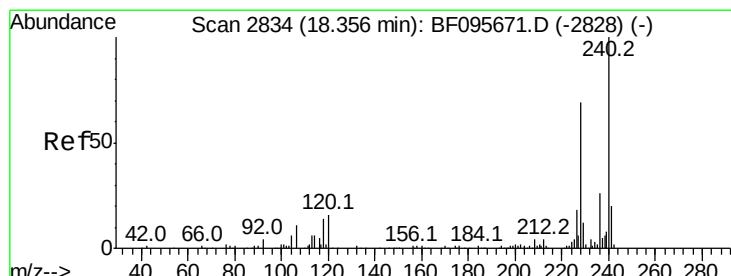
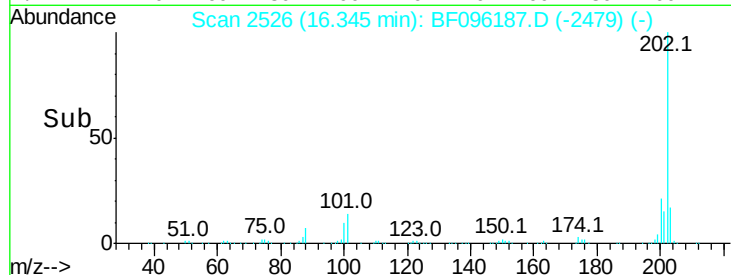
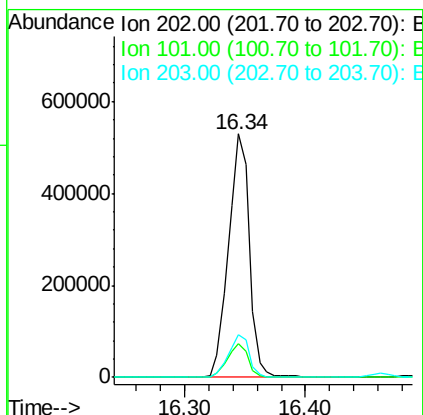
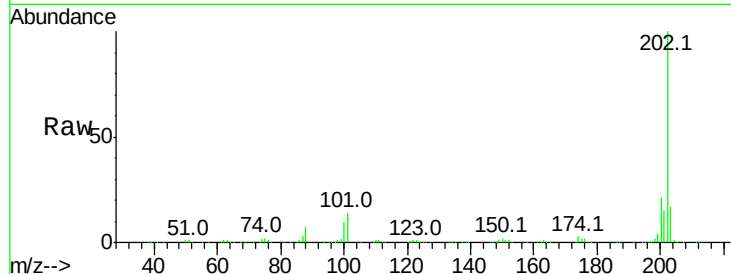
#74
Fluoranthene
Concen: 66.12 ng
RT: 16.34 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.1	0.0	33.2
203	17.3	0.0	38.1

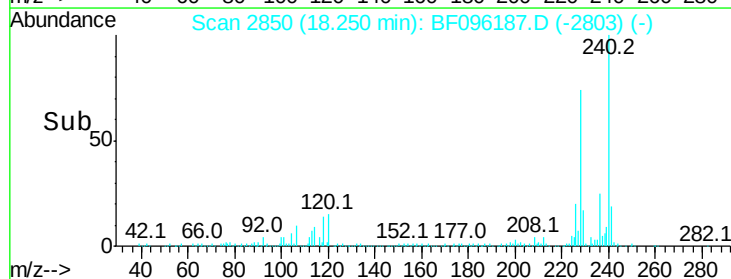
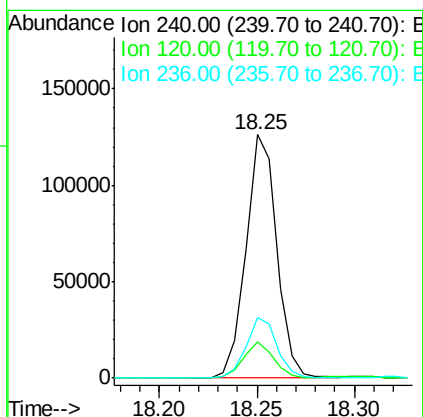
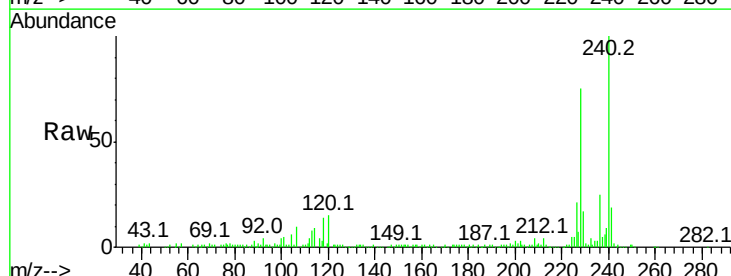
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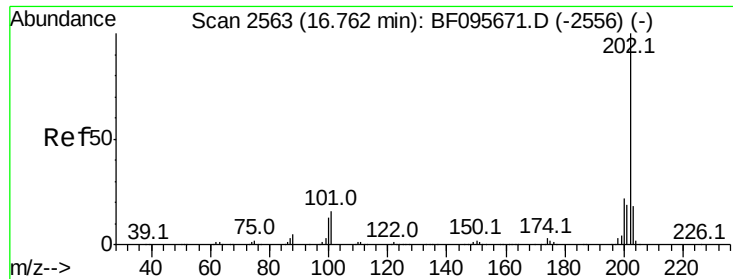
mohammad
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.25 min Scan# 2850
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.9	5.8	8.8#
236	24.9	20.5	30.7





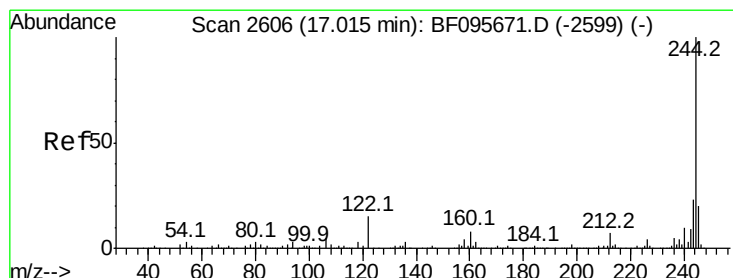
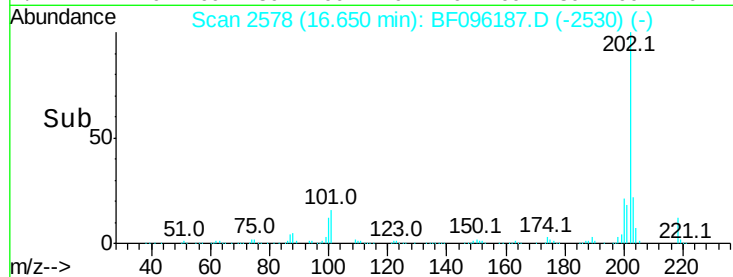
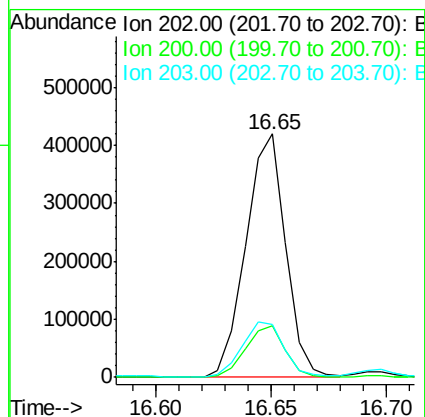
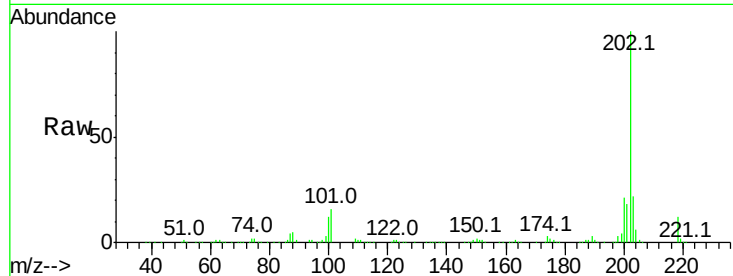
#77
Pvrene
Concen: 48.82 ng
RT: 16.65 min Scan# 2578
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.4	17.6	26.4
203	22.0	14.4	21.6

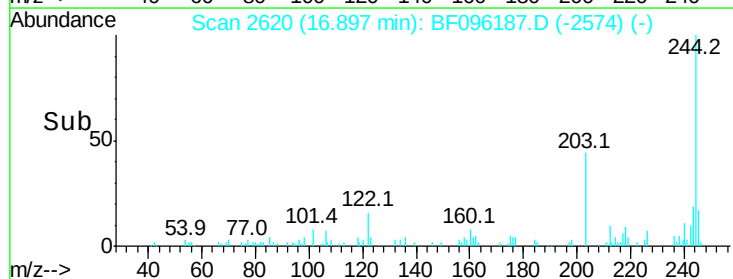
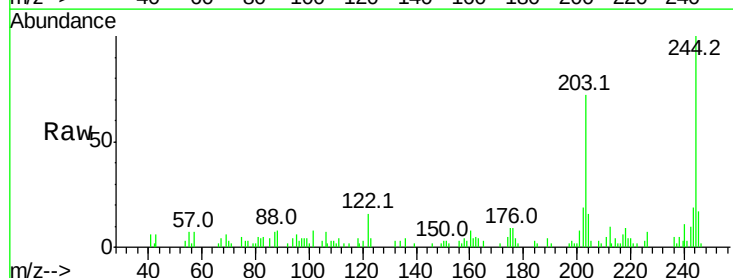
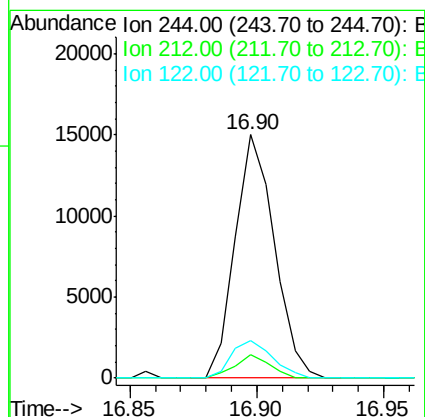
Manual Integrations
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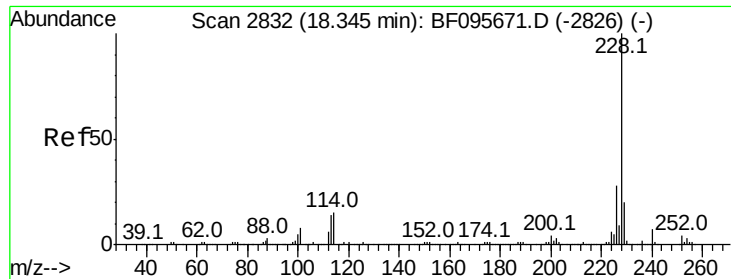
mohammad
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#78
Terphenyl-d14
Concen: 2.91 ng
RT: 16.90 min Scan# 2620
Delta R.T. -0.03 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	9.8	6.0	9.0
122	15.7	10.3	15.5





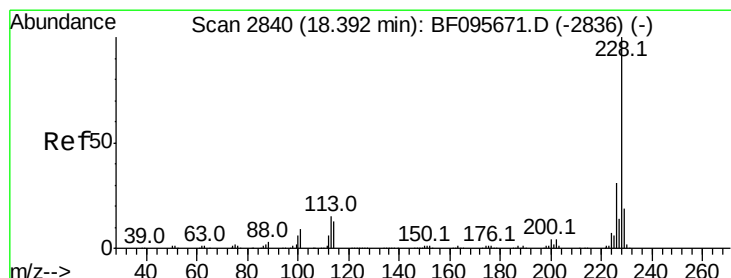
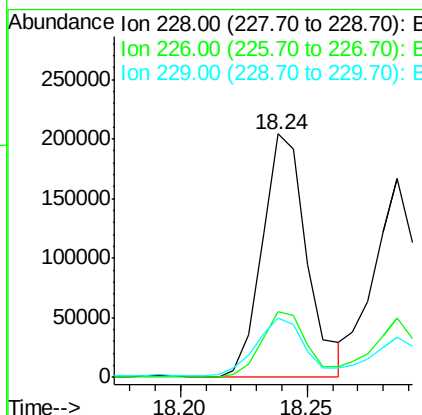
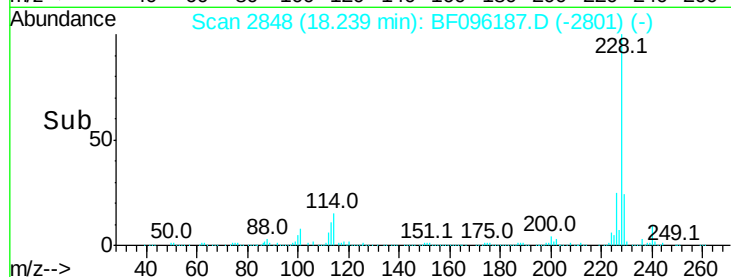
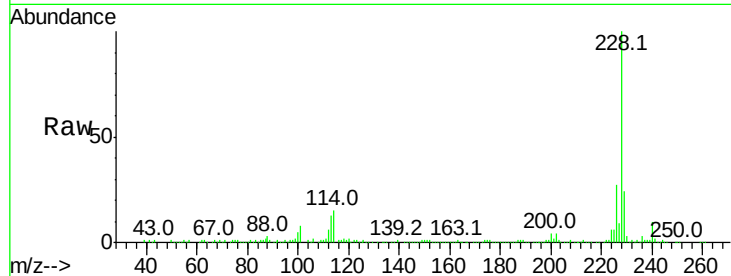
#80
Benzo(a)anthracene
Concen: 31.20 ng
RT: 18.24 min Scan# 2848
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Resp	Lower	Upper
228	100	251298		
226	26.9		22.6	33.8
229	24.2		16.3	24.5

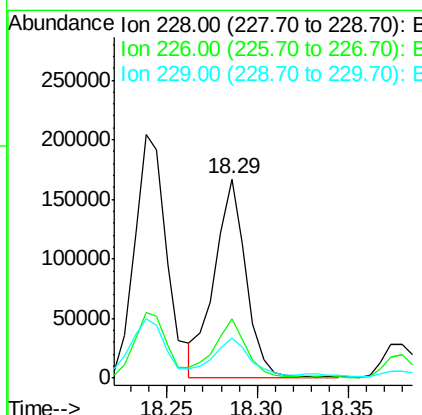
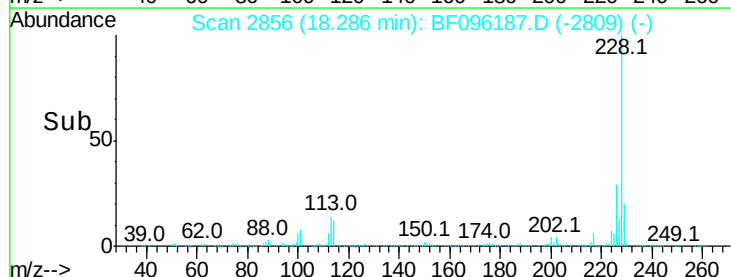
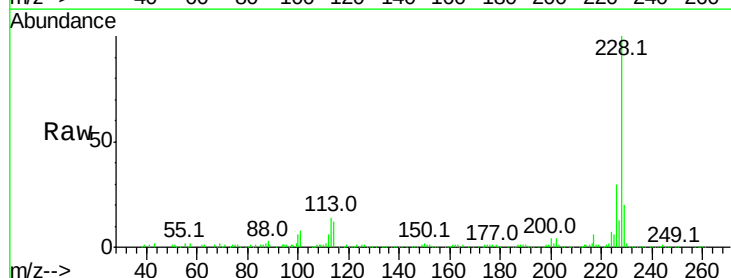
Manual Integrations
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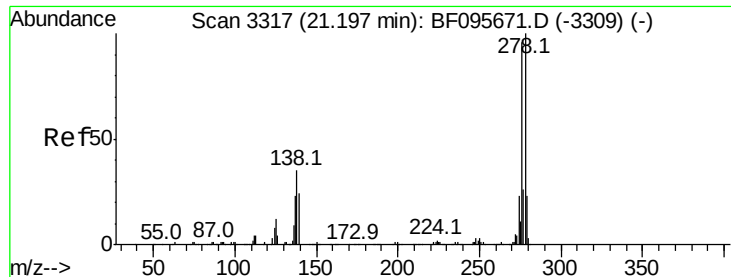
mohammad
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#82
Chrysene
Concen: 24.99 ng
RT: 18.29 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	201118		
226	30.0		24.9	37.3
229	20.0		15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 11.09 ng

RT: 21.09 min Scan# 3333

Delta R.T. -0.01 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Instrument :

BNA_F

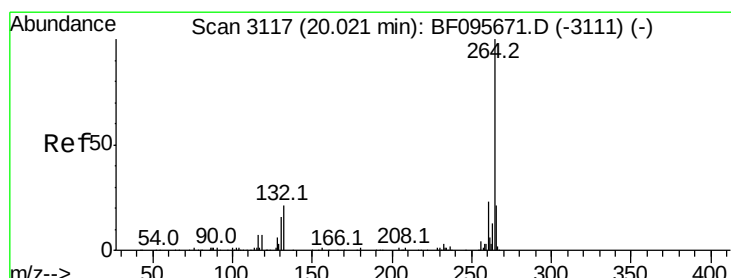
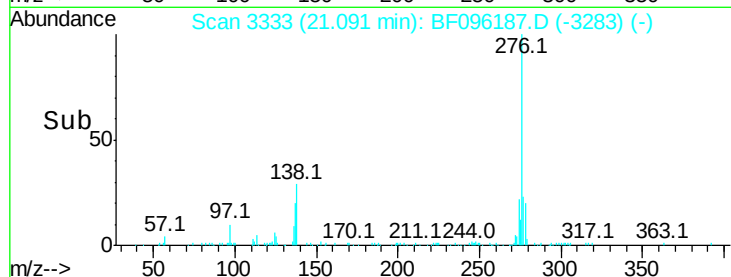
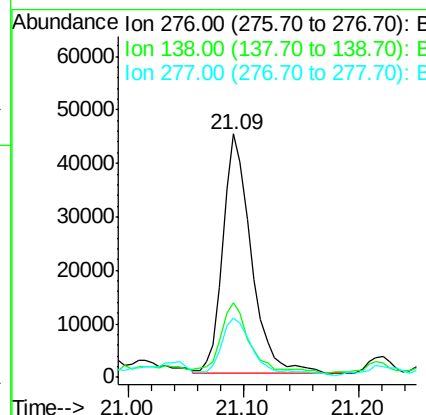
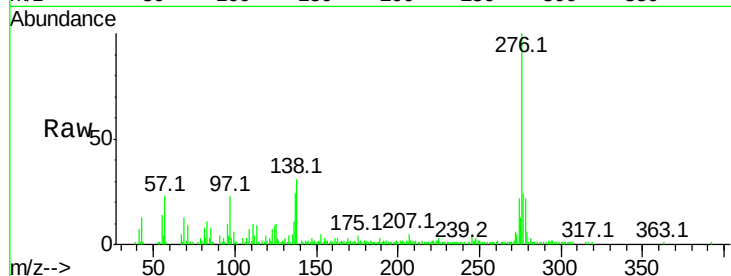
ClientSampleId :

HR-05-062217-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.6	27.8	41.6#
277	26.1	20.2	30.4

Manual Integrations
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mohammad
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#86

Perylene-d12

Concen: 20.00 ng

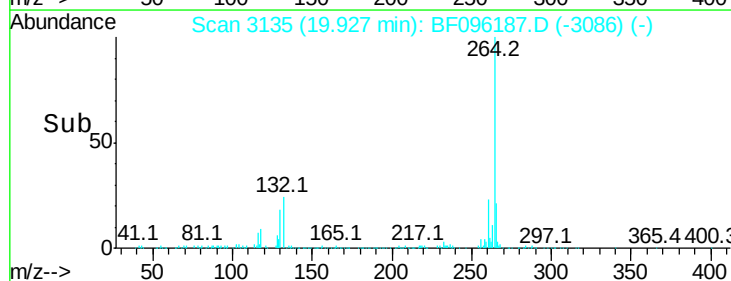
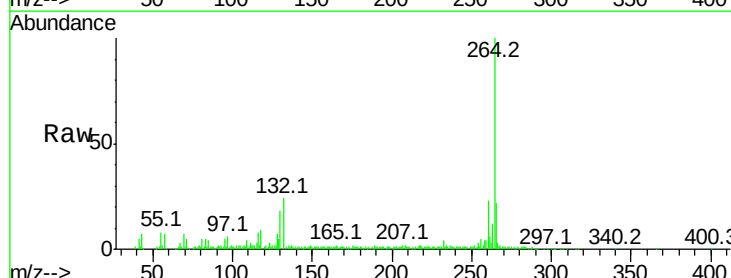
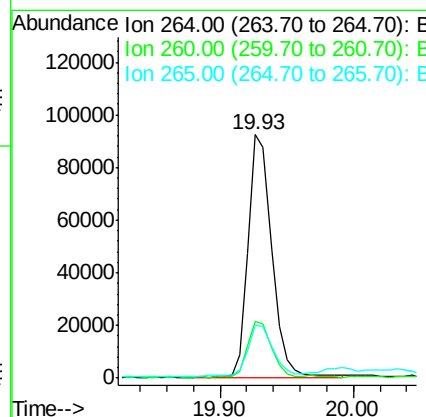
RT: 19.93 min Scan# 3135

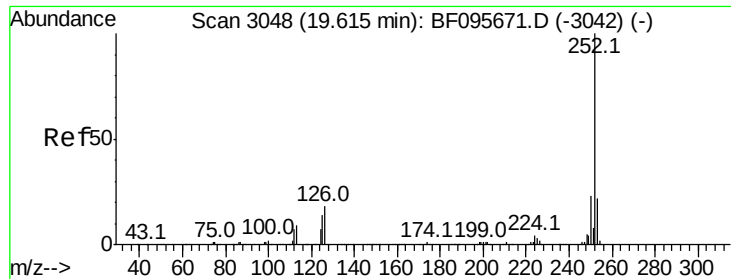
Delta R.T. -0.01 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	21.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 31.82 ng m

RT: 19.53 min Scan# 3067

Delta R.T. -0.01 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Instrument :

BNA_F

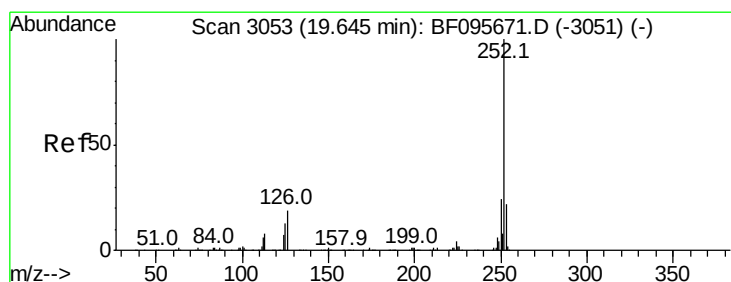
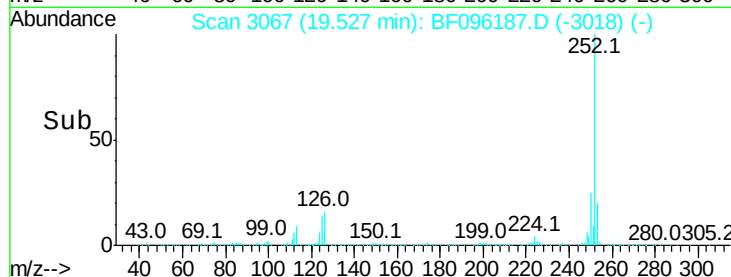
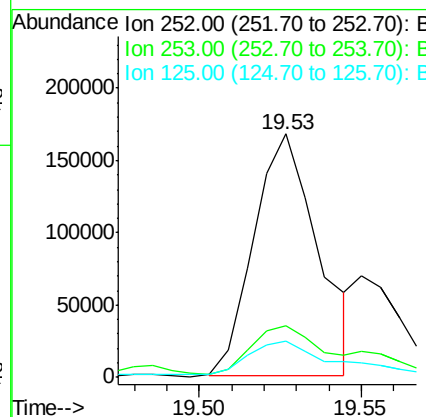
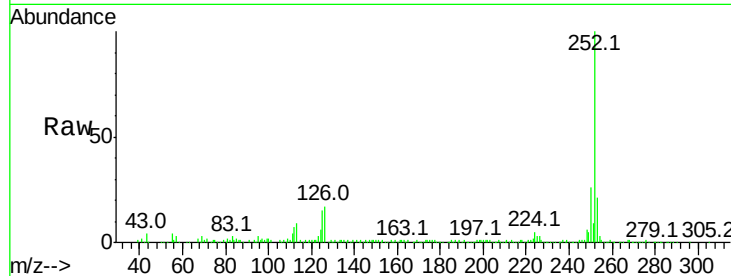
ClientSampleId :

HR-05-062217-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.1	27.1
125	15.0	9.8	14.8

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#88

Benzo(k)fluoranthene

Concen: 9.91 ng m

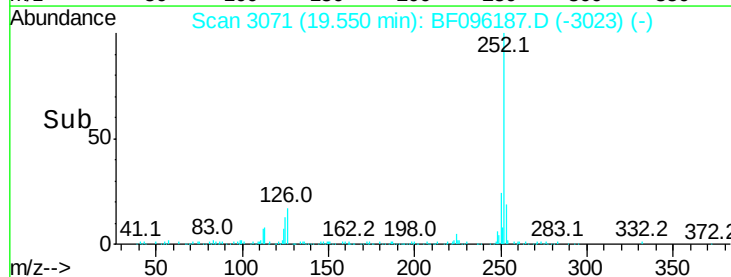
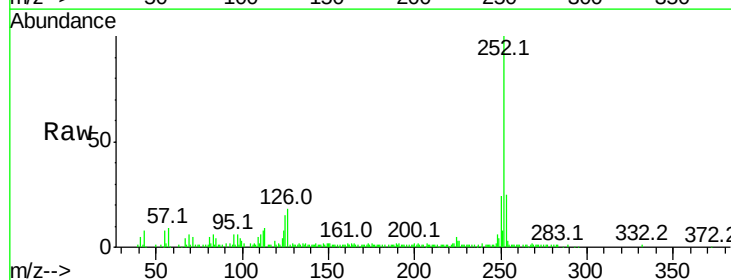
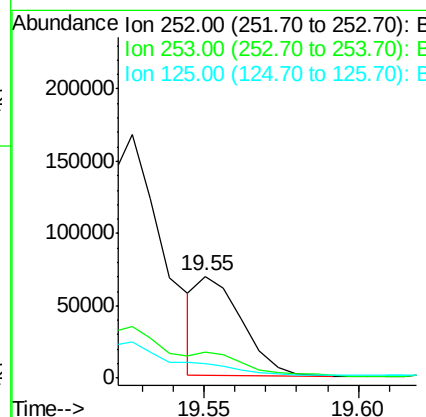
RT: 19.55 min Scan# 3071

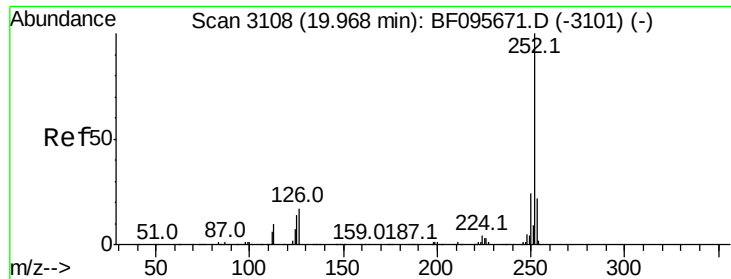
Delta R.T. -0.02 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.4	27.6
125	14.8	13.1	19.7





#89

Benzo(a)pyrene

Concen: 25.03 ng

RT: 19.87 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Instrument :

BNA_F

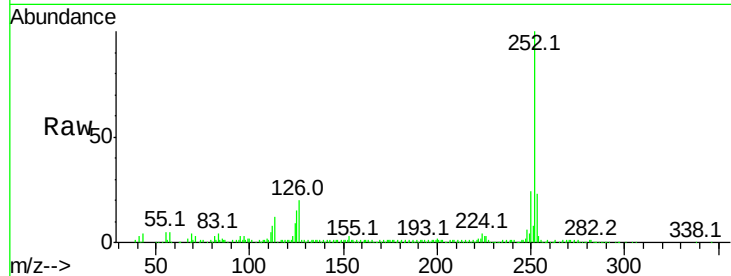
ClientSampleId :

HR-05-062217-C

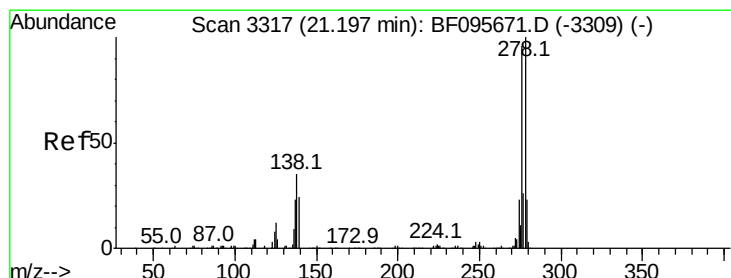
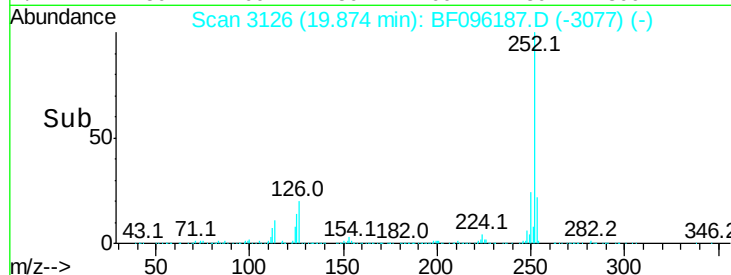
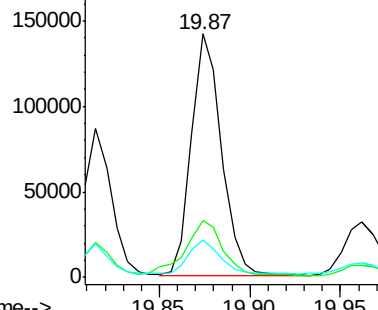
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	15.2	11.0	16.4

Manual Integrations
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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



#90

Dibenzo(a,h)anthracene

Concen: 3.61 ng

RT: 21.09 min Scan# 3333

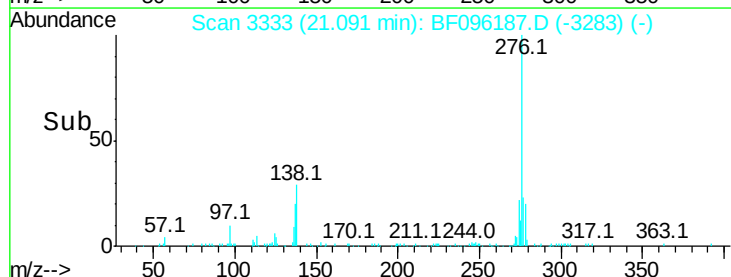
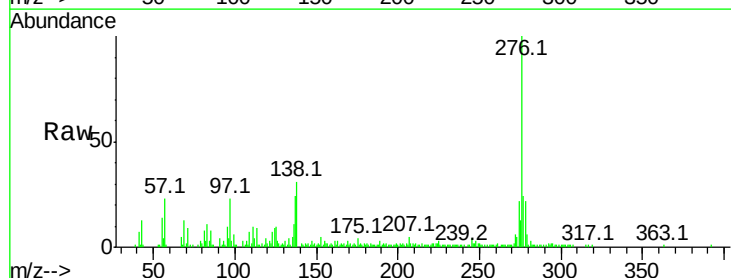
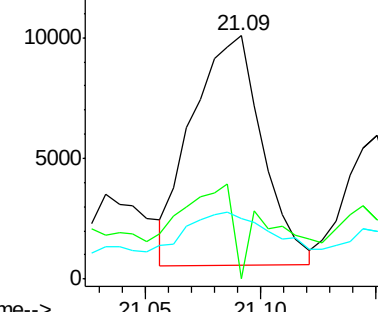
Delta R.T. -0.01 min

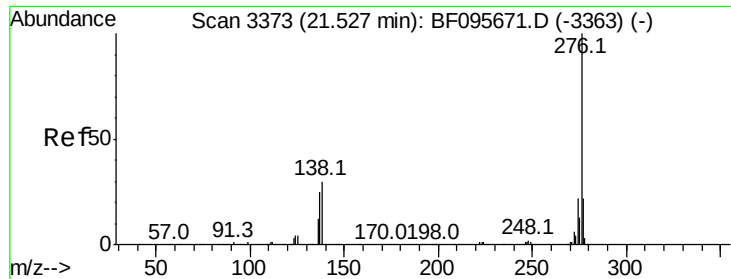
Lab File: BF096187.D

Acq: 24 Jun 2017 13:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	24.9	19.3	28.9

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





#91
Benzo(a,h,i)perylene
Concen: 11.65 ng
RT: 21.41 min Scan# 3388
Delta R.T. -0.01 min
Lab File: BF096187.D
Acq: 24 Jun 2017 13:27

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.9	18.6	28.0
138	30.8	25.4	38.0

Manual Integrations
APPROVED

mohammad
6/29/2017 3:44:53 PM

