

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095650.D
 Acq On : 2 Jun 2017 23:50
 Operator : SJ/MA
 Sample : I3441-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-5267-060117

Manual Integrations
 APPROVED

mohammad
 6/6/2017 8:49:18 AM

Quant Time: Jun 03 04:58:24 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 18:51:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	84727	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	333202	20.00	ng	0.00
38) Acenaphthene-d10	12.40	164	131276	20.00	ng	0.00
63) Phenanthrene-d10	14.80	188	193056	20.00	ng	0.00
75) Chrysene-d12	18.50	240	177087	20.00	ng	0.00
86) Perylene-d12	20.17	264	128706	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	82943	16.32	ng	0.04
7) Phenol-d6	7.12	99	113980	18.69	ng	0.02
23) Nitrobenzene-d5	8.46	82	62545	11.84	ng	0.00
41) 2,4,6-Tribromophenol	13.70	330	17652	16.42	ng	0.00
44) 2-Fluorobiphenyl	11.34	172	152206	16.69	ng	0.00
78) Terphenyl-d14	17.14	244	93943	11.68	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.60	128	112891	6.74	ng	98
37) 2-Methylnaphthalene	10.73	142	64726	5.89	ng	96
51) Acenaphthene	12.45	154	40319	4.83	ng	96
54) Dibenzofuran	12.74	168	46688	4.04	ng	97
57) Fluorene	13.29	166	82086	8.17	ng	99
70) Phenanthrene	14.84	178	388541	35.03	ng	98
71) Anthracene	14.93	178	83235	7.35	ng	96
72) Carbazole	15.23	167	32989	3.20	ng	98
74) Fluoranthene	16.60	202	227657	20.01	ng	98
77) Pyrene	16.90	202	214987	16.23	ng	96
80) Benzo(a)anthracene	18.49	228	66559	6.46	ng	96
82) Chrysene	18.53	228	67795m	6.80	ng	
85) Indeno(1,2,3-cd)pyrene	21.44	276	16602	2.05	ng	94
87) Benzo(b)fluoranthene	19.77	252	48494m	6.10	ng	
89) Benzo(a)pyrene	20.12	252	37112	5.06	ng	# 89
91) Benzo(g,h,i)perylene	21.80	276	15146	2.55	ng	# 80

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

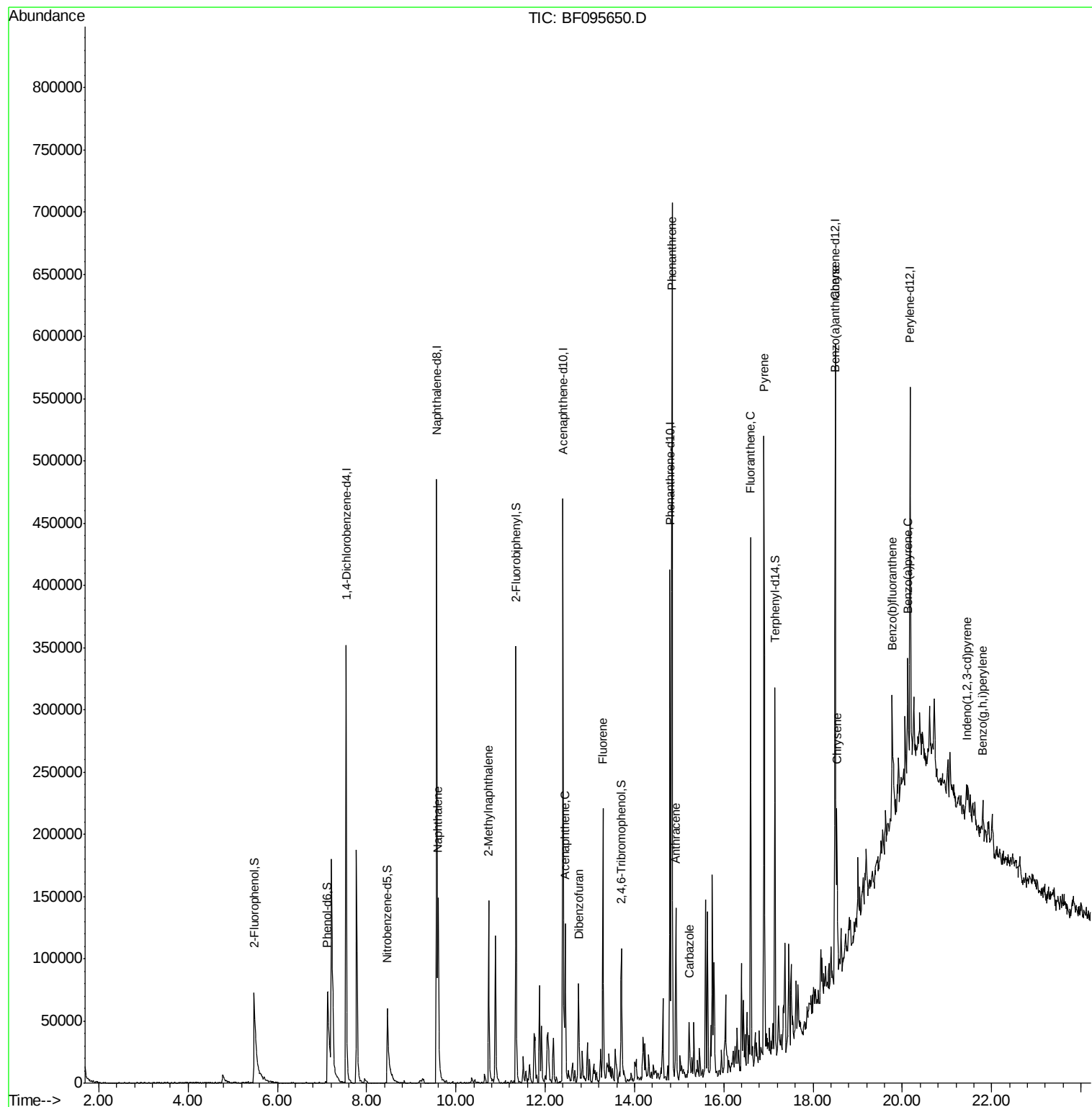
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
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#1

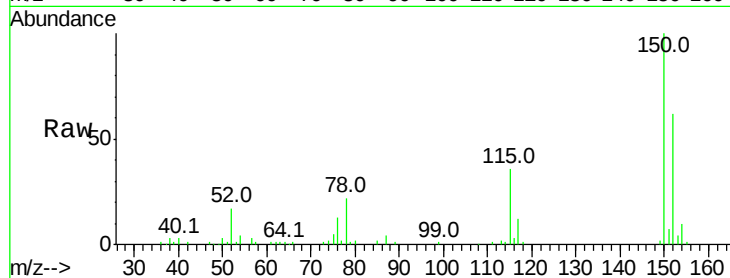
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.54 min Scan# 995
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :
OR-RO-5267-060117

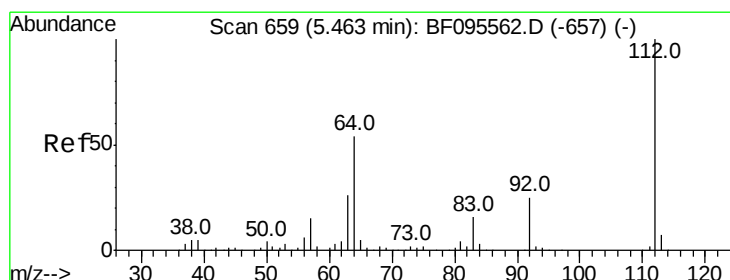
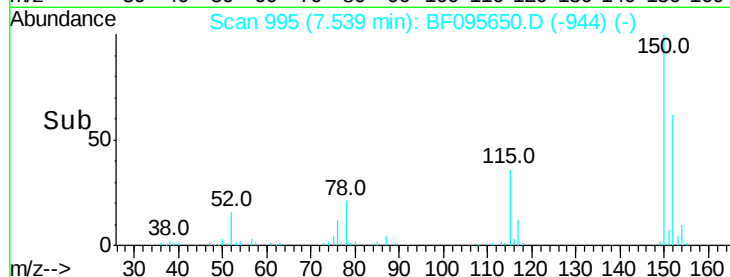
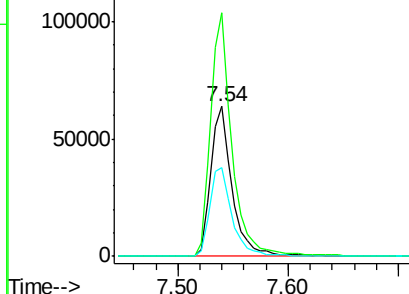
Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	126.2	189.2
115	58.8	52.2	78.2

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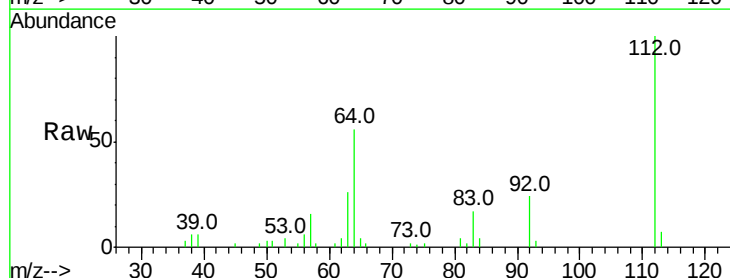
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



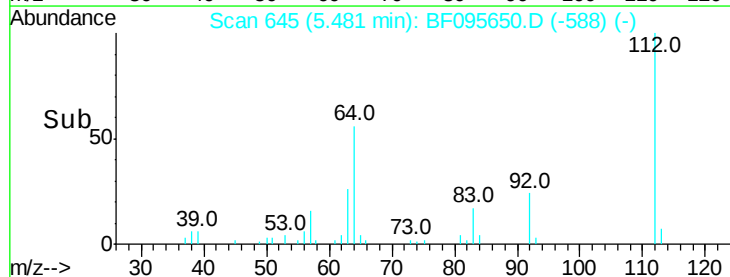
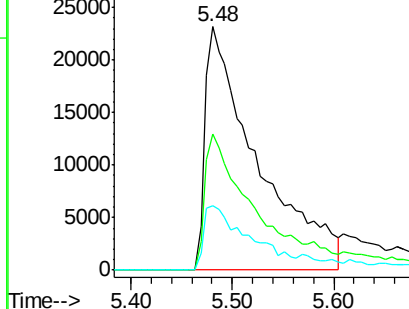
#5

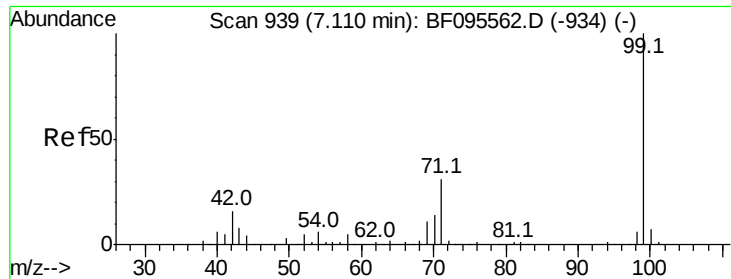
2-Fluorophenol
Concen: 16.32 ng
RT: 5.48 min Scan# 645
Delta R.T. 0.04 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.0	69.0
63	26.4	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: 18.69 ng

RT: 7.12 min Scan# 924

Delta R.T. 0.02 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

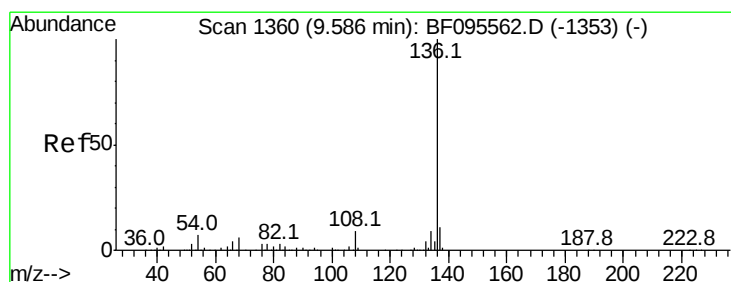
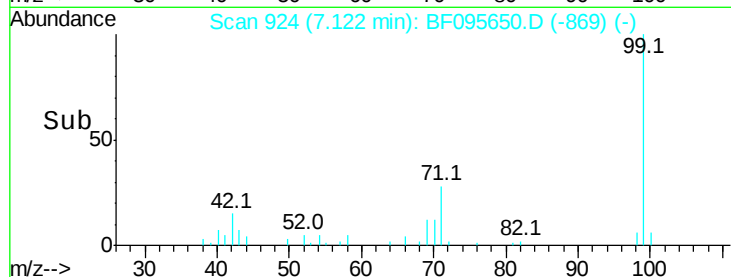
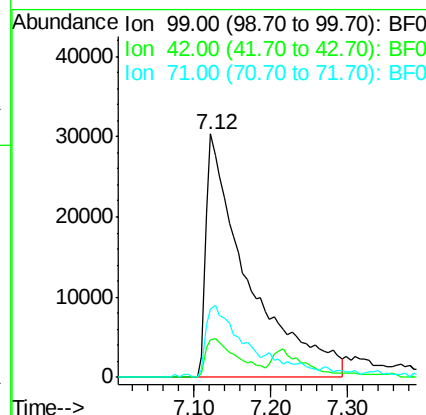
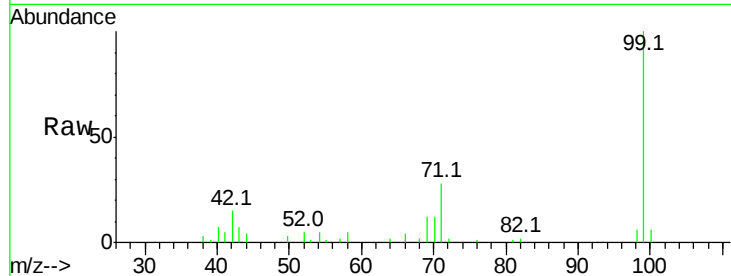
ClientSampleId :

OR-RO-5267-060117

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		113980		
42	15.2	13.5	20.3		
71	27.9	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

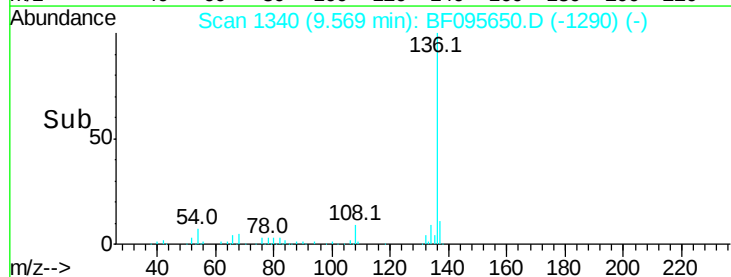
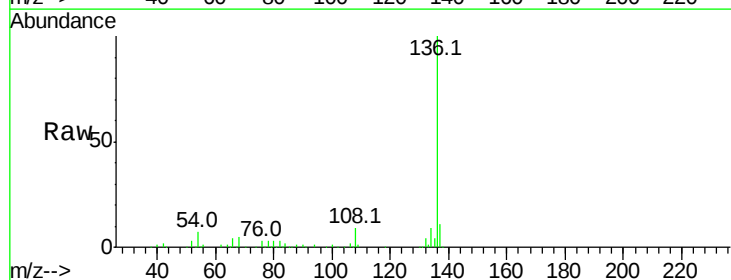
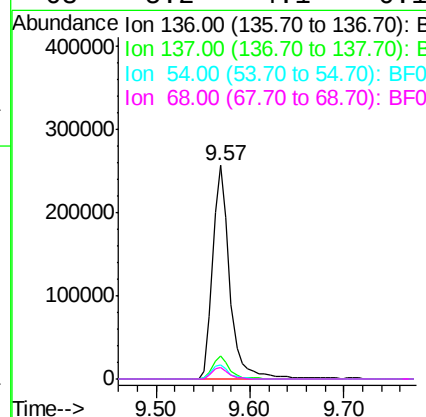
RT: 9.57 min Scan# 1340

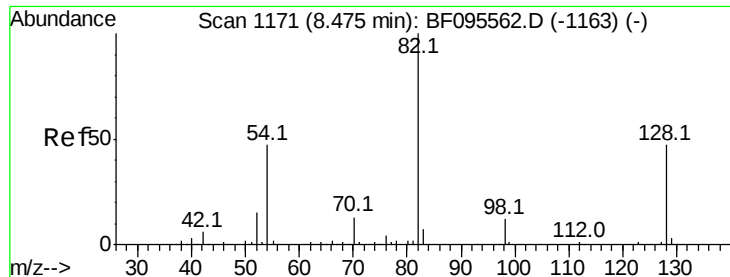
Delta R.T. -0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		333202		
137	10.6	8.5	12.7		
54	6.7	4.9	7.3		
68	5.2	4.1	6.1		





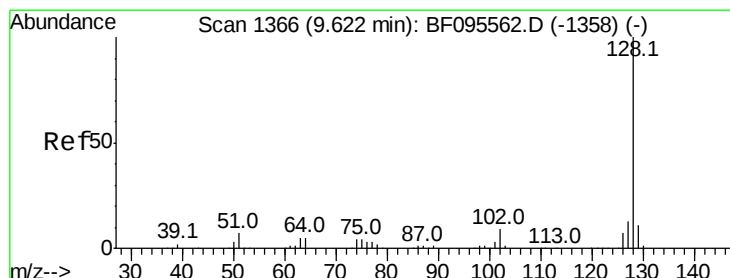
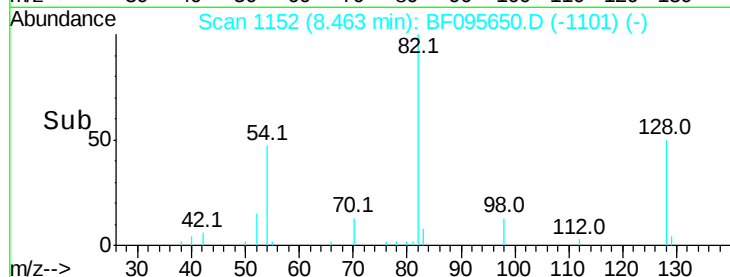
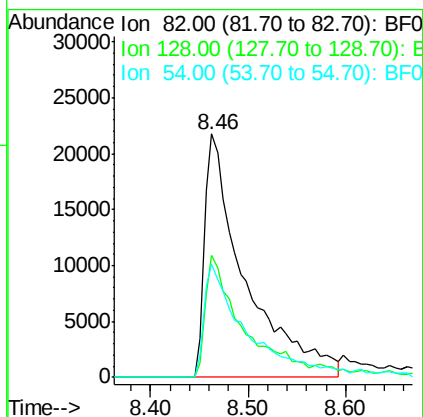
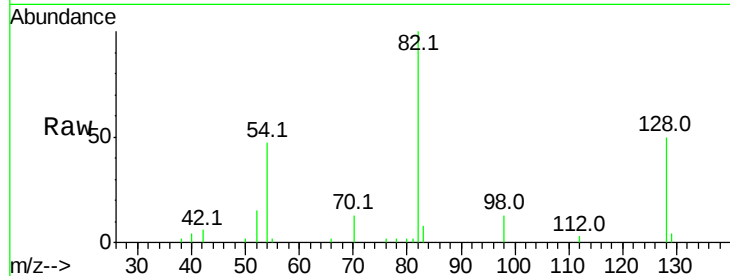
#23
Nitrobenzene-d5
Concen: 11.84 ng
RT: 8.46 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :
OR-RO-5267-060117

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.0	34.0	51.0
54	46.7	42.2	63.2

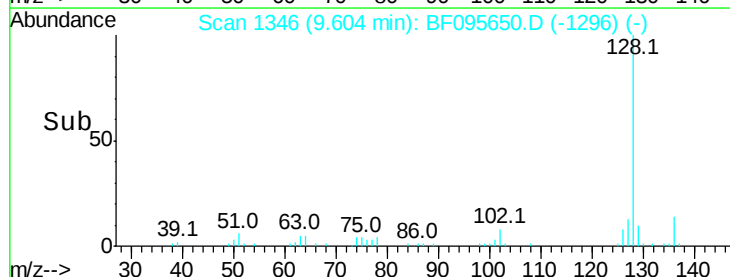
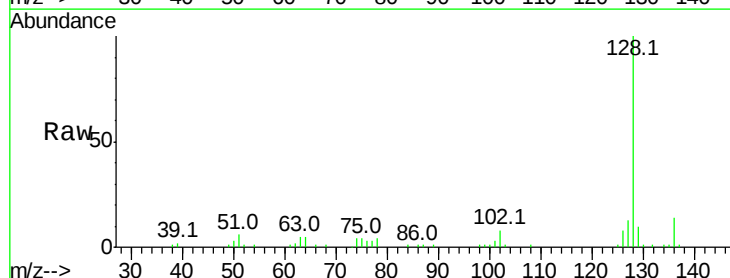
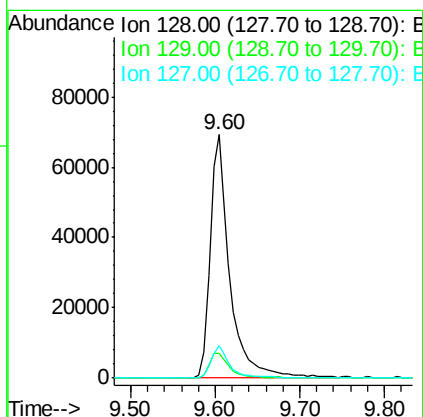
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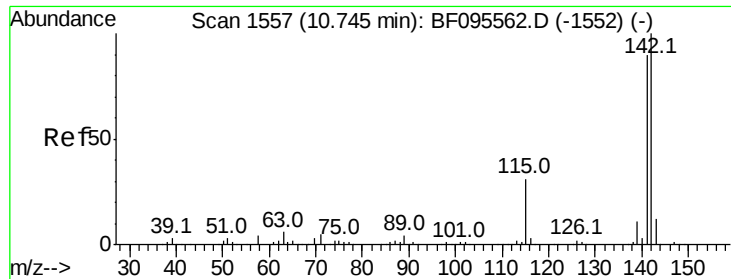
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#31
Naphthalene
Concen: 6.74 ng
RT: 9.60 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.0	9.0	13.6
127	13.3	10.8	16.2





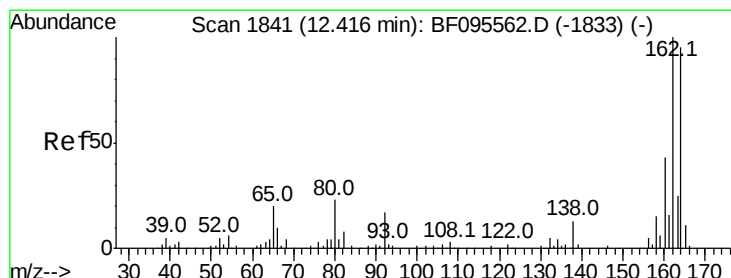
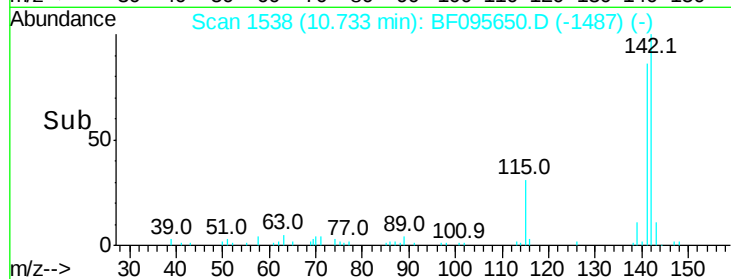
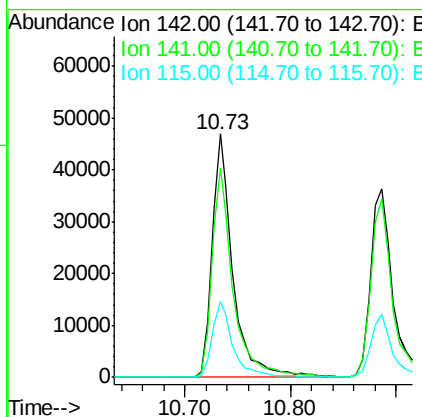
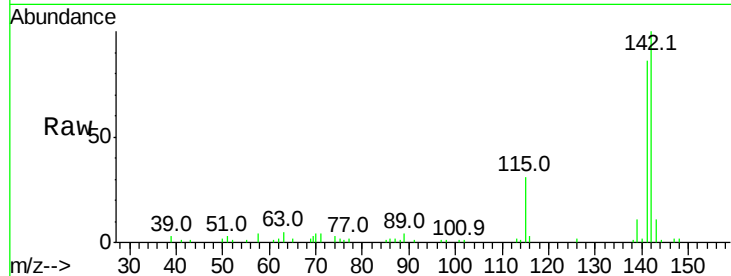
#37
2-Methylnaphthalene
Concen: 5.89 ng
RT: 10.73 min Scan# 1538
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :
OR-RO-5267-060117

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.8	71.3	106.9
115	31.2	27.1	40.7

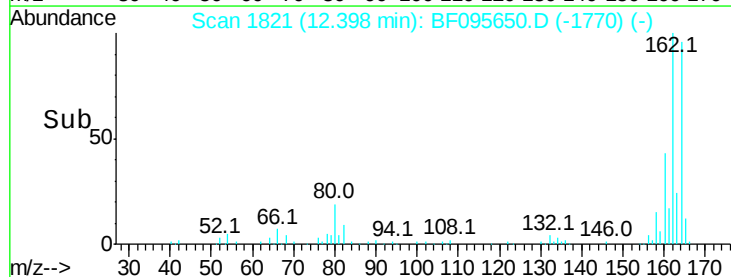
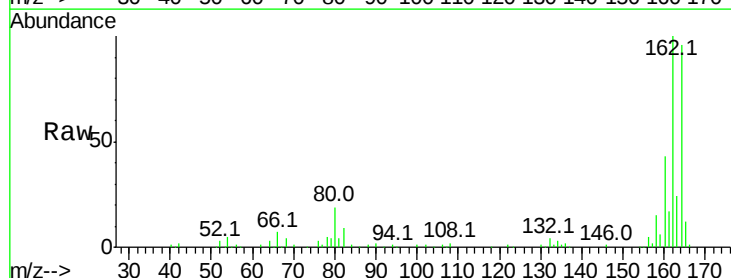
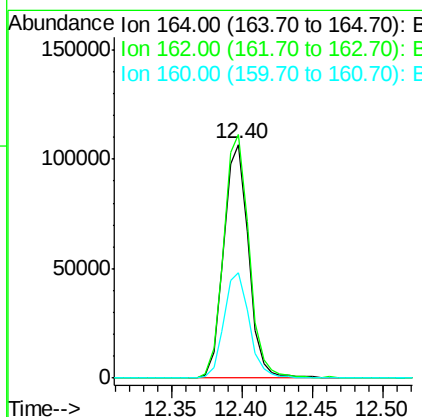
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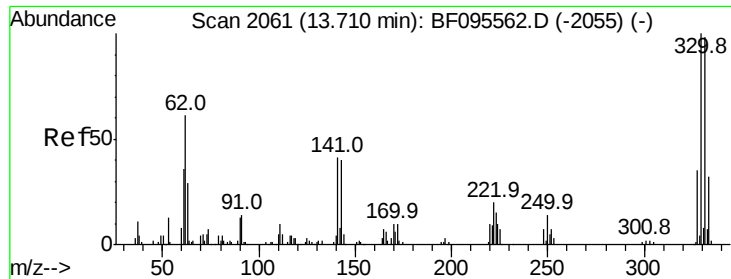
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.40 min Scan# 1821
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.6	123.8
160	45.0	36.2	54.2





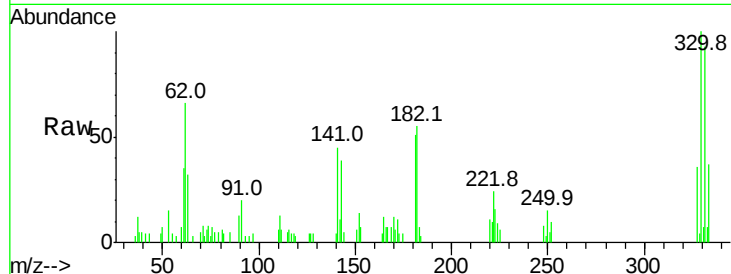
#41
 2,4,6-Tribromophenol
 Concen: 16.42 ng
 RT: 13.70 min Scan# 2043
 Delta R.T. 0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-5267-060117

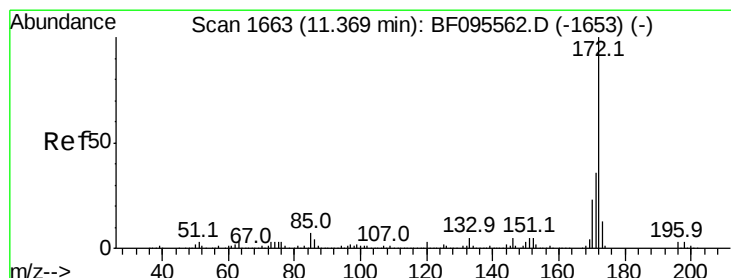
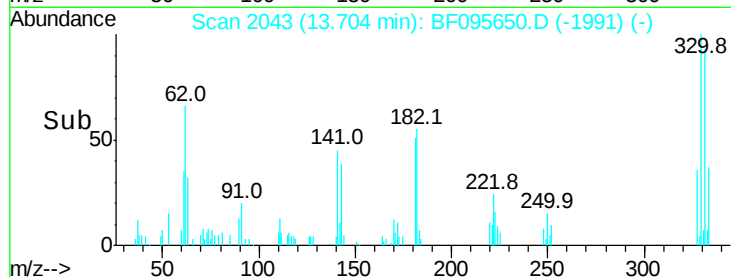
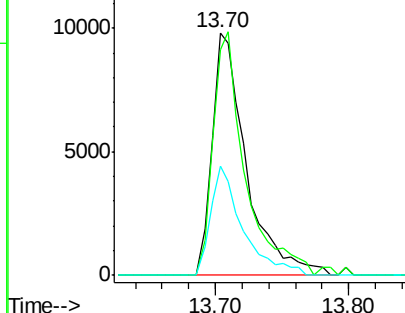
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.1	76.6	115.0
141	42.2	31.4	47.2

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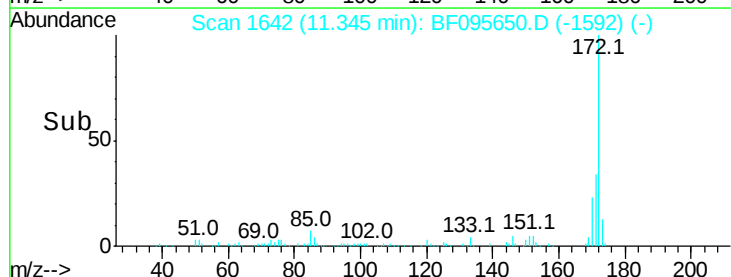
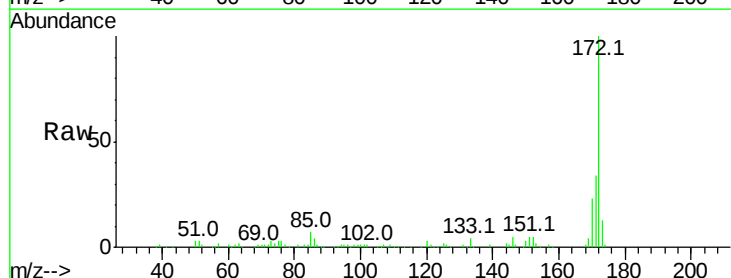
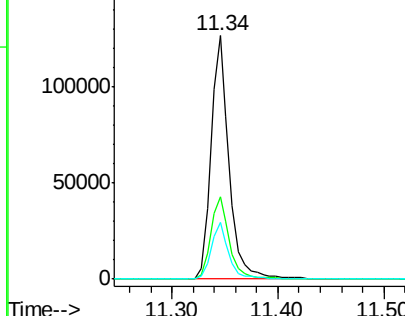
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

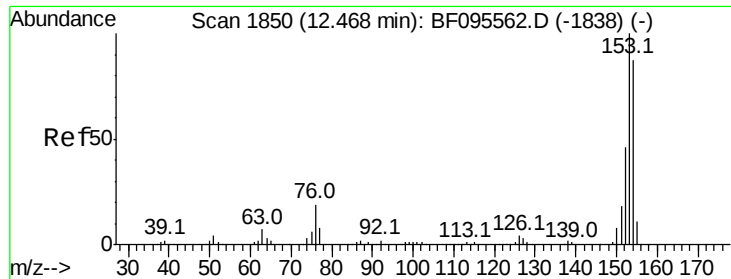


#44
 2-Fluorobiphenyl
 Concen: 16.69 ng
 RT: 11.34 min Scan# 1642
 Delta R.T. -0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	29.6	44.4
170	23.0	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





#51

Acenaphthene

Concen: 4.83 ng

RT: 12.45 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

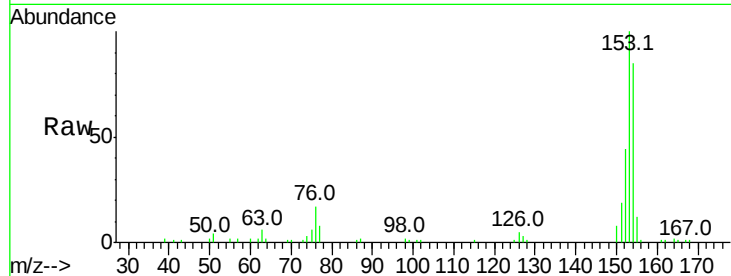
ClientSampleId :

OR-RO-5267-060117

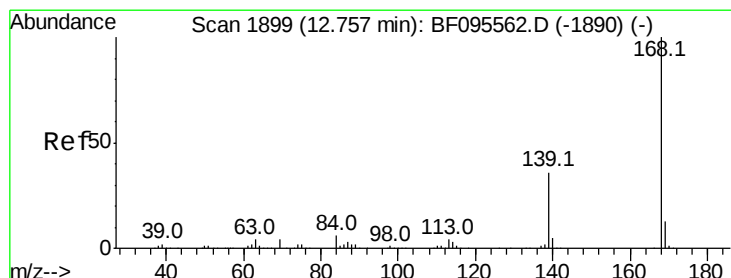
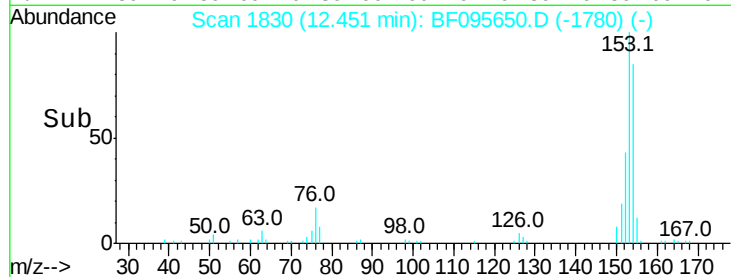
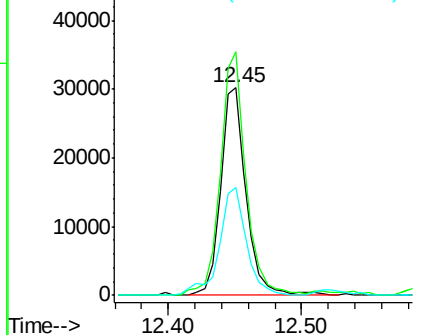
Tot Ion:	154	Resp:	40319
Ion Ratio	Lower	Upper	
154	100		
153	117.4	90.5	135.7
152	52.0	43.6	65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.04 ng

RT: 12.74 min Scan# 1880

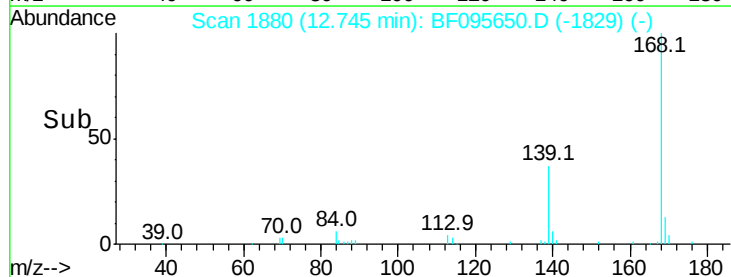
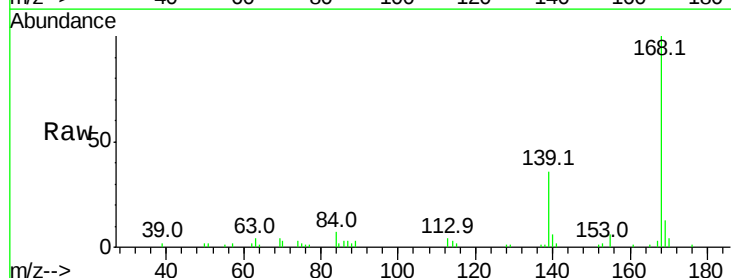
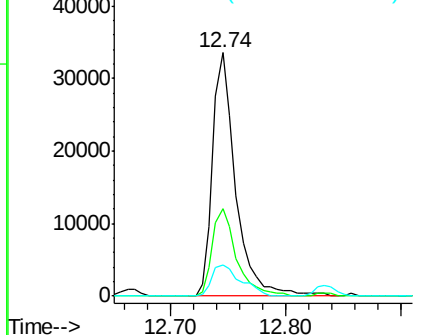
Delta R.T. -0.00 min

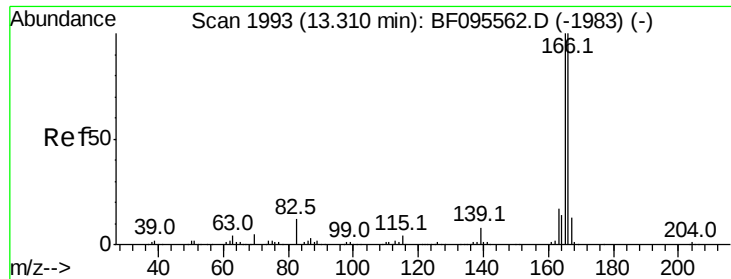
Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion:	168	Resp:	46688
Ion Ratio	Lower	Upper	
168	100		
139	35.8	30.6	45.8
169	12.8	10.8	16.2

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





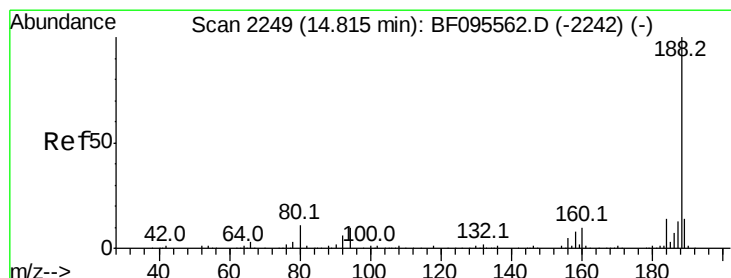
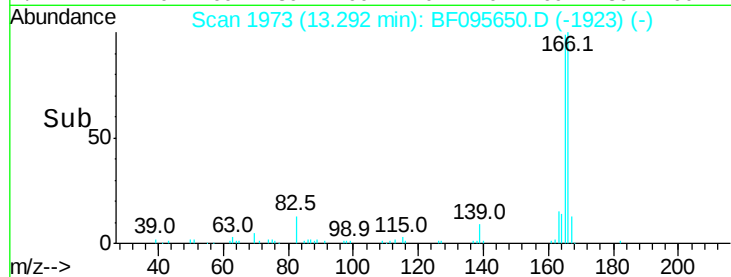
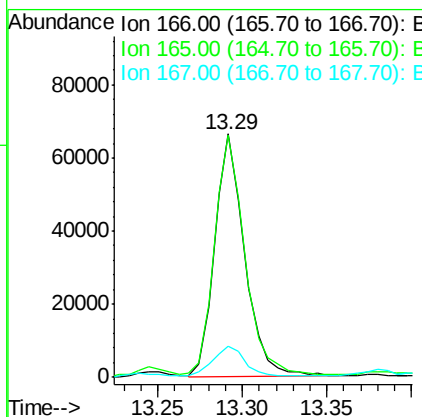
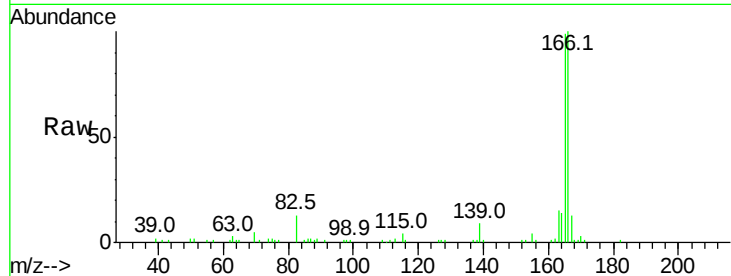
#57
Fluorene
 Concen: 8.17 ng
 RT: 13.29 min Scan# 1973
 Delta R.T. -0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-5267-060117

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.3	78.8	118.2
167	12.8	10.6	16.0

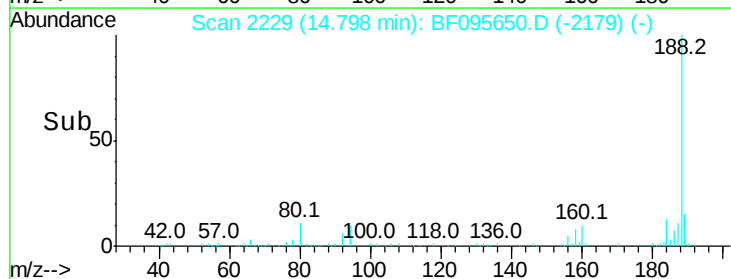
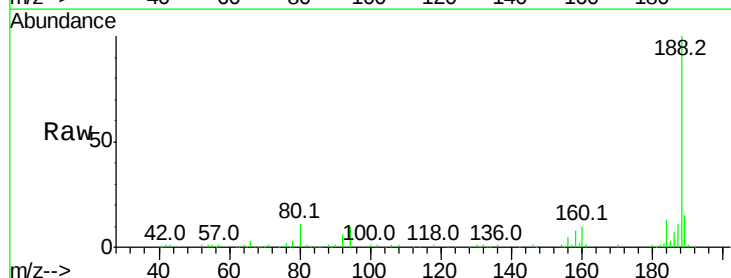
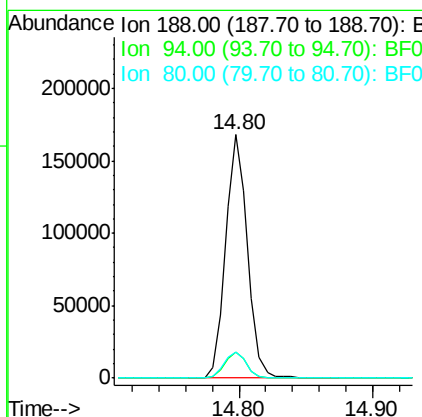
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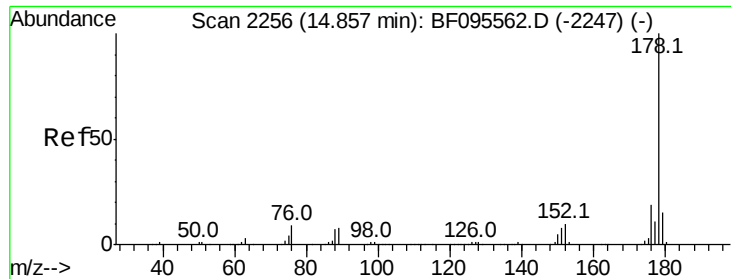
mohammad
 6/6/2017 8:49:18 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.80 min Scan# 2229
 Delta R.T. -0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.4	14.2
80	10.7	10.2	15.2





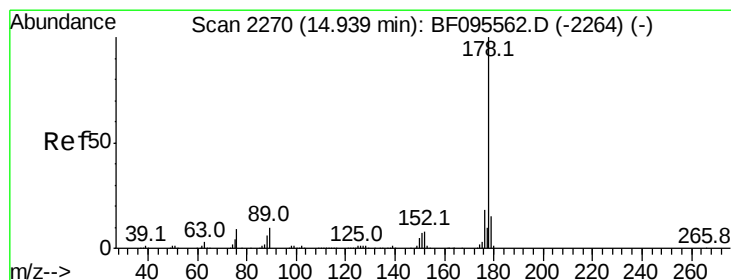
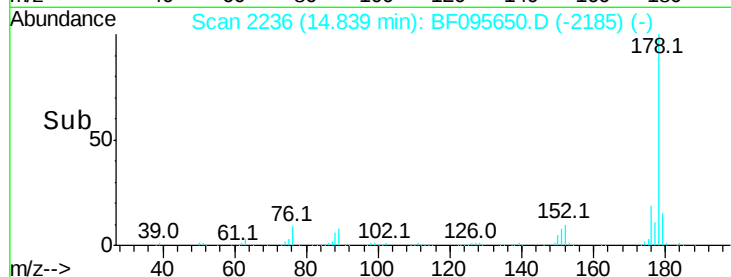
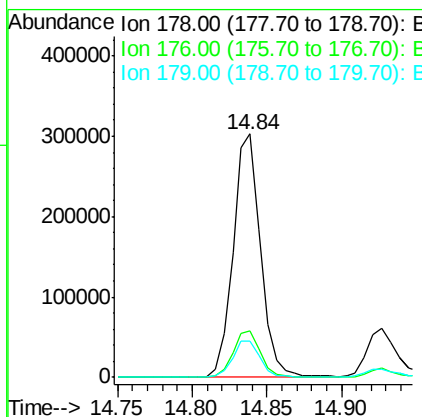
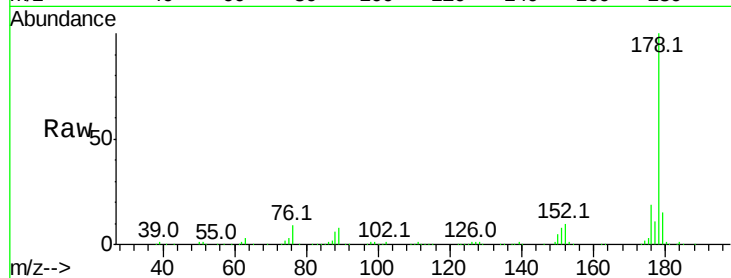
#70
Phenanthrene
Concen: 35.03 ng
RT: 14.84 min Scan# 2236
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :
OR-RO-5267-060117

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.2	24.4
179	15.1	12.6	19.0

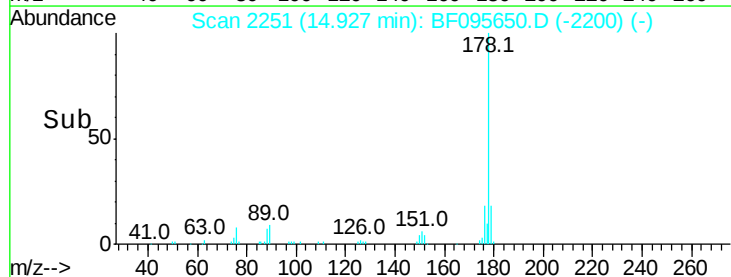
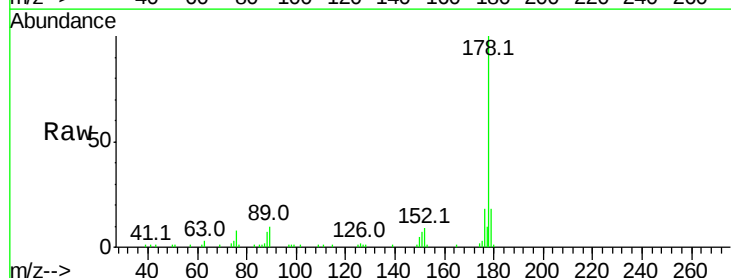
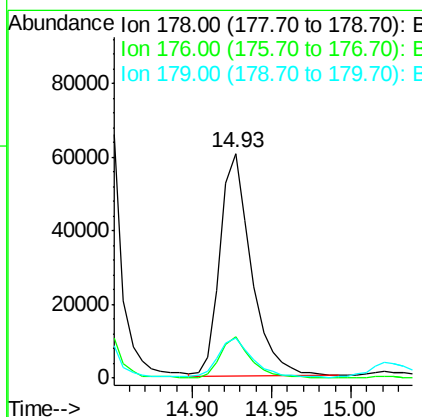
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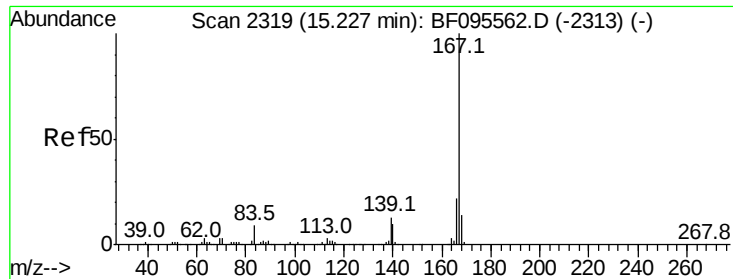
mohammad
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#71
Anthracene
Concen: 7.35 ng
RT: 14.93 min Scan# 2251
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.8	23.8
179	17.8	12.7	19.1





#72

Carbazole

Concen: 3.20 ng

RT: 15.23 min Scan# 2302

Delta R.T. 0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

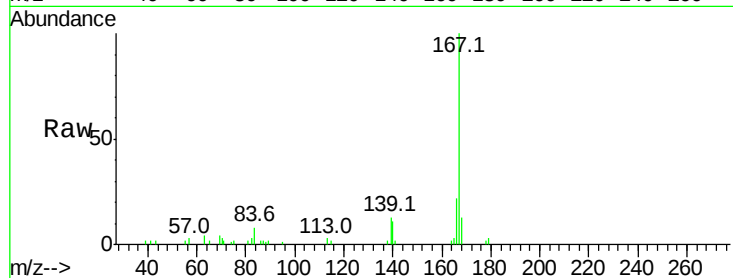
ClientSampleId :

OR-RO-5267-060117

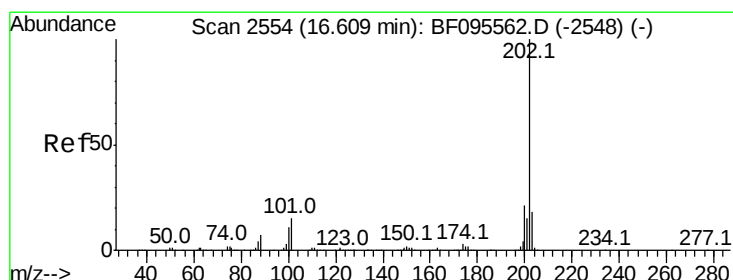
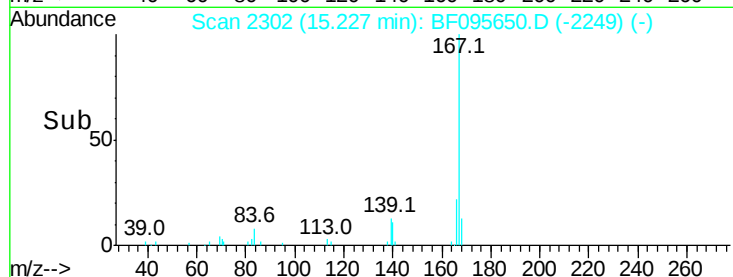
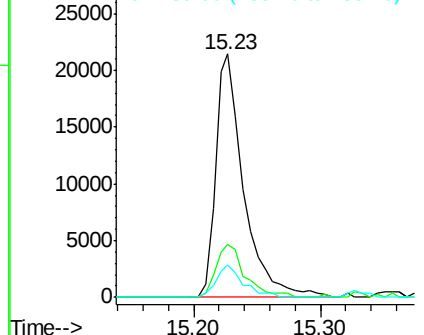
Tot Ion:	167	Resp:	32989
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.1	27.1
139	13.1	11.7	17.5

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 20.01 ng

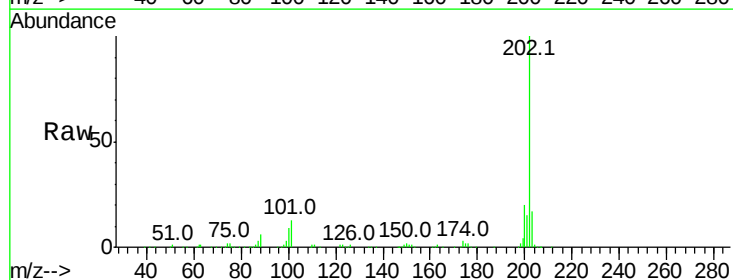
RT: 16.60 min Scan# 2536

Delta R.T. -0.00 min

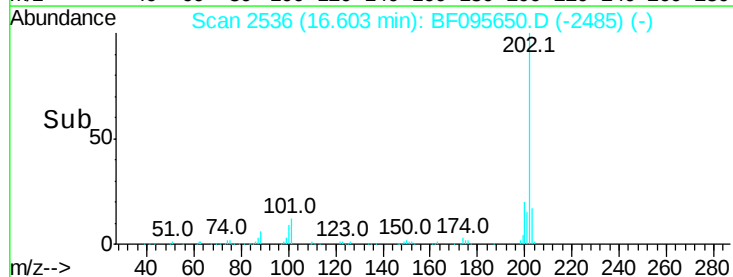
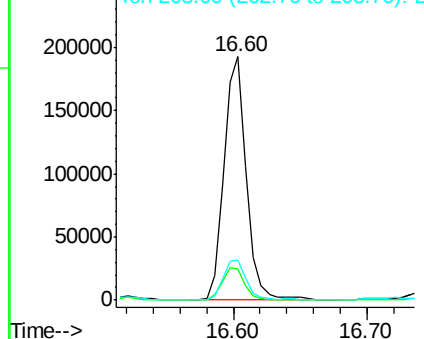
Lab File: BF095650.D

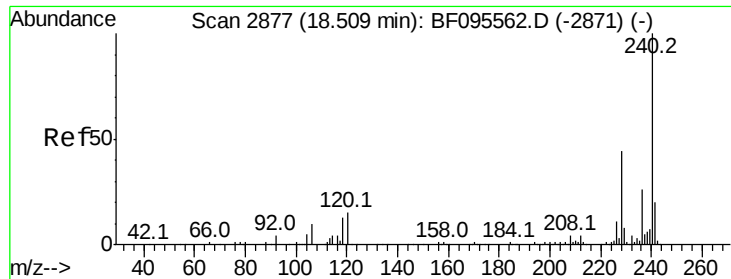
Acq: 2 Jun 2017 23:50

Tgt Ion:	202	Resp:	227657
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	33.2
203	16.7	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

OR-RO-5267-060117

Tot Ion:240 Resp: 177087

Ion Ratio Lower Upper

240 100

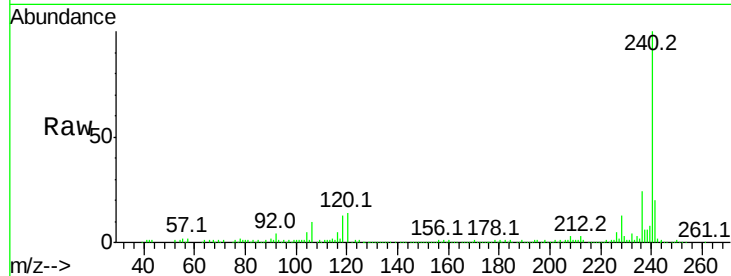
120 14.1 5.8 8.8#

236 24.1 20.5 30.7

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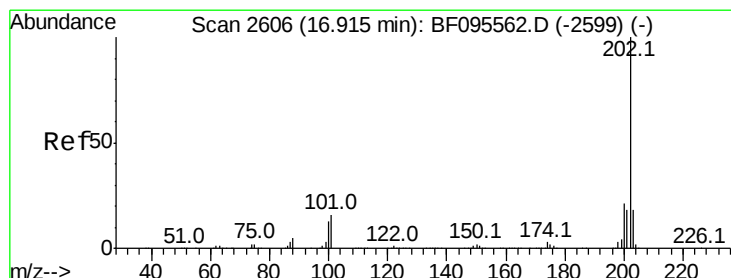
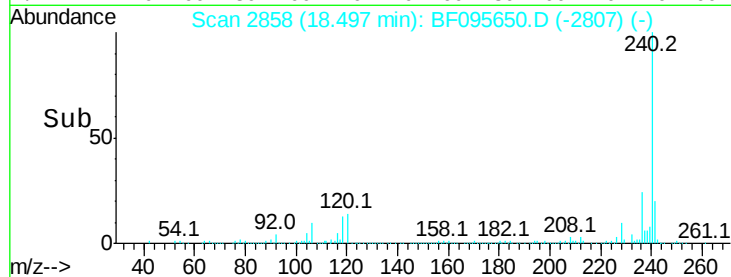
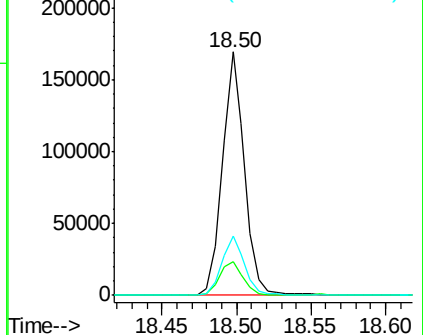
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.23 ng

RT: 16.90 min Scan# 2587

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

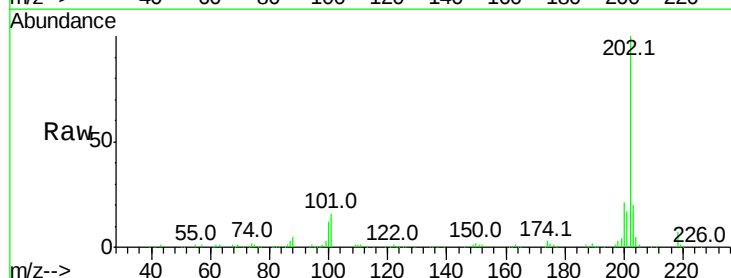
Tgt Ion:202 Resp: 214987

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

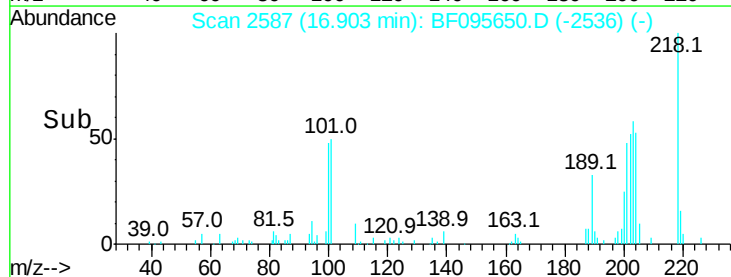
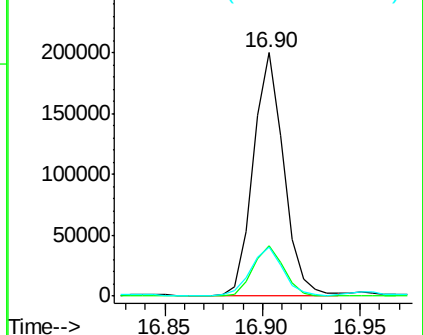
203 20.2 14.4 21.6

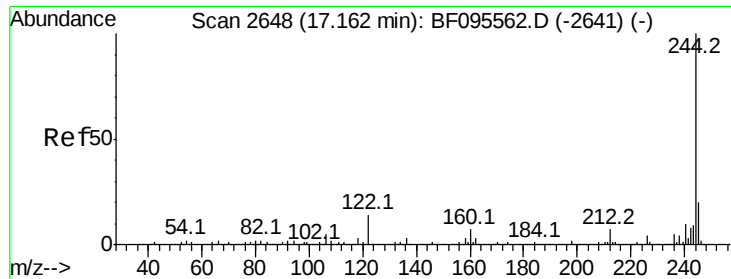


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





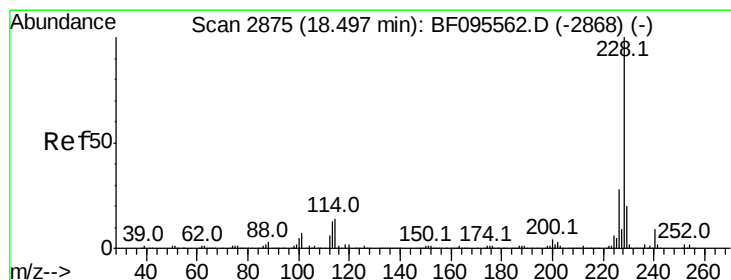
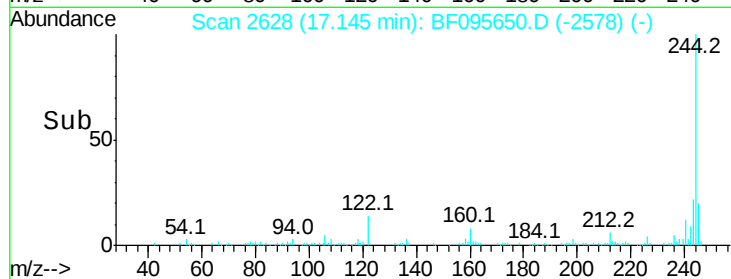
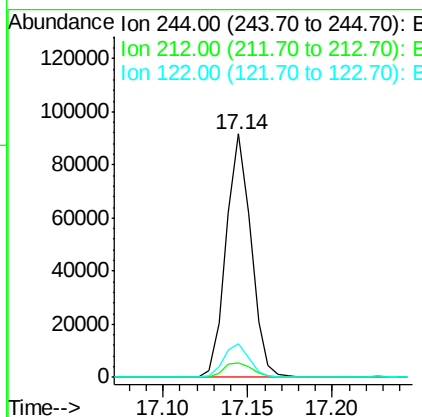
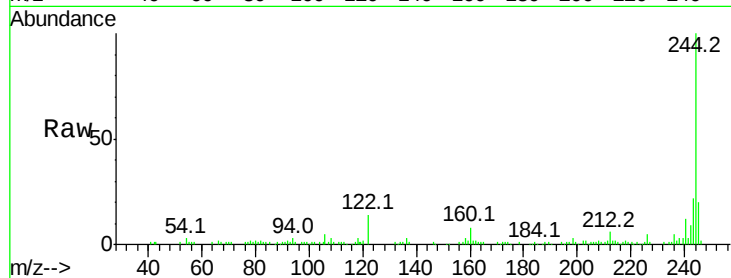
#78
 Terphenyl-d14
 Concen: 11.68 ng
 RT: 17.14 min Scan# 2628
 Delta R.T. -0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-5267-060117

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.0	6.0	9.0
122	13.9	10.3	15.5

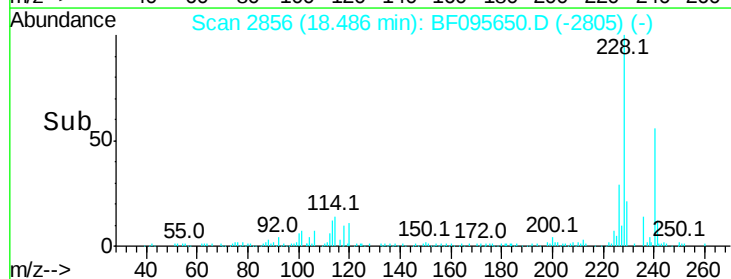
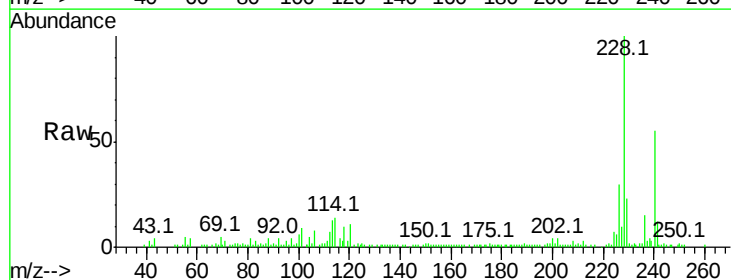
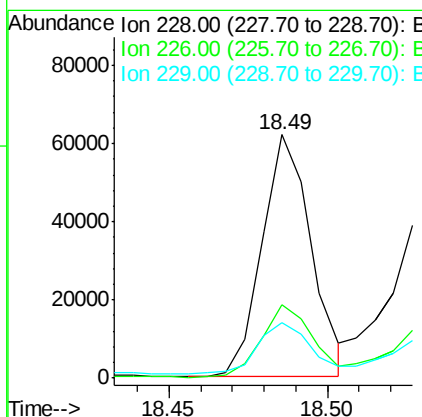
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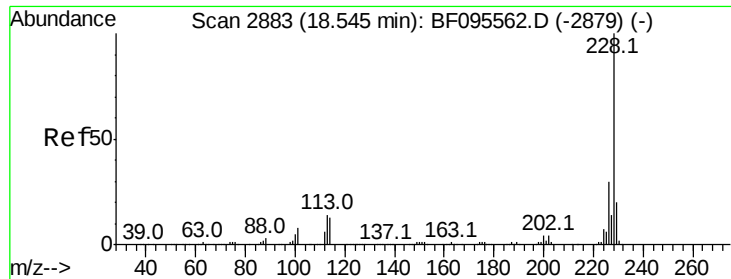
mohammad
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#80
 Benzo(a)anthracene
 Concen: 6.46 ng
 RT: 18.49 min Scan# 2856
 Delta R.T. -0.00 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	22.7	16.3	24.5





#82

Chrysene

Concen: 6.80 ng/mL

RT: 18.53 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

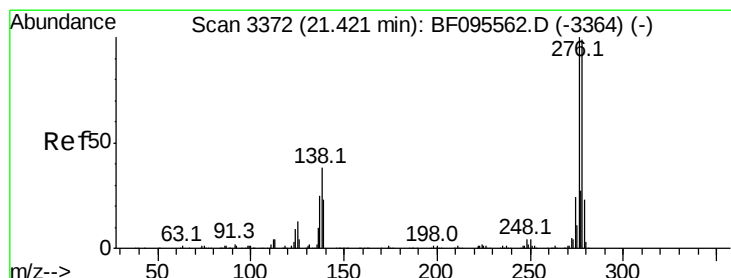
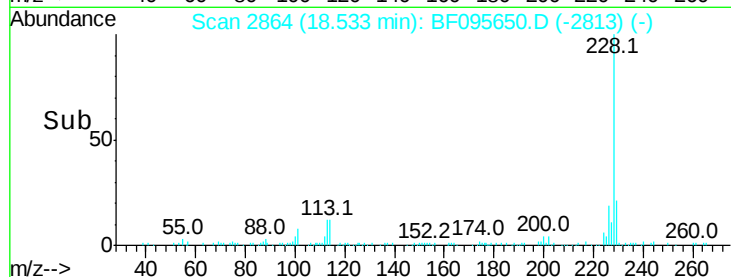
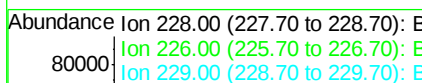
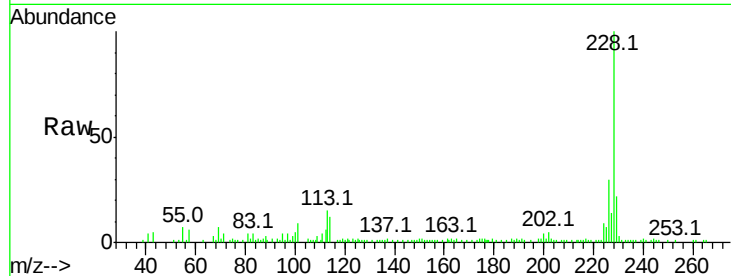
ClientSampleId :

OR-RO-5267-060117

Tot Ion:	228	Resp:	67795
Ion Ratio	Lower	Upper	
228	100		
226	29.8	24.9	37.3
229	22.2	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.05 ng/mL

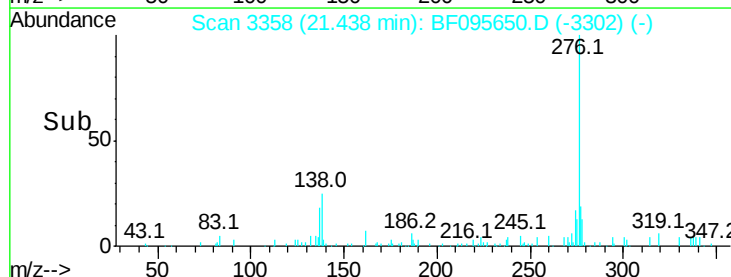
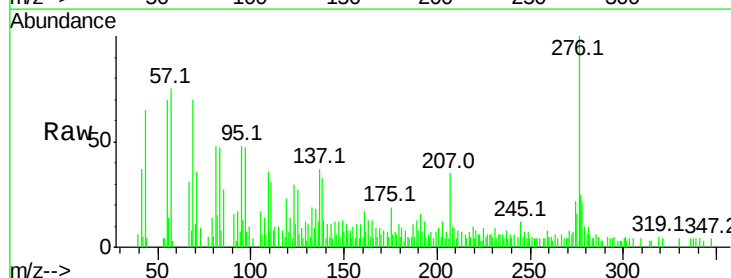
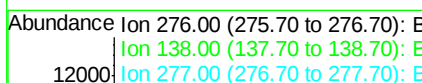
RT: 21.44 min Scan# 3358

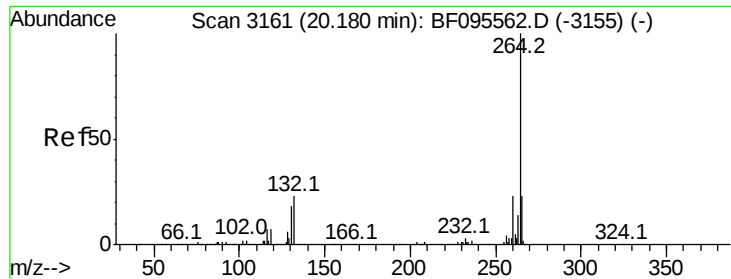
Delta R.T. 0.03 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion:	276	Resp:	16602
Ion Ratio	Lower	Upper	
276	100		
138	30.4	27.8	41.6
277	23.2	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.17 min Scan# 3143

Delta R.T. 0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

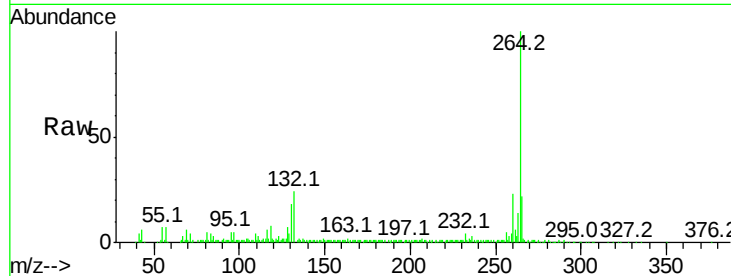
ClientSampleId :

OR-RO-5267-060117

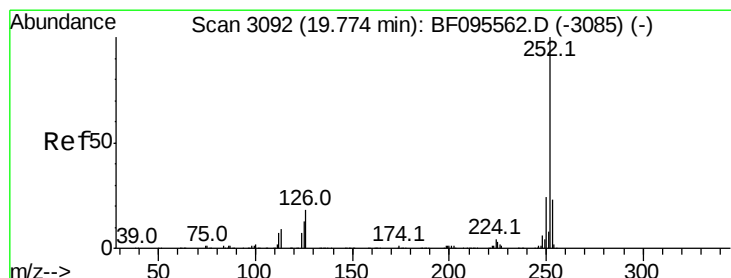
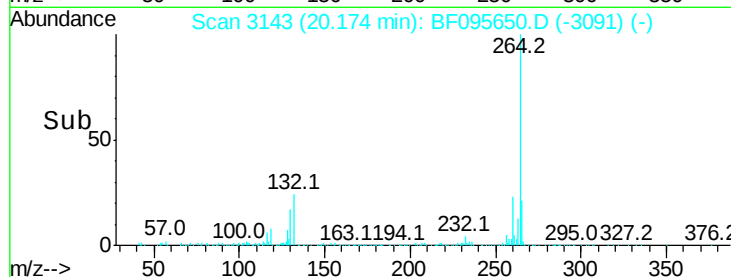
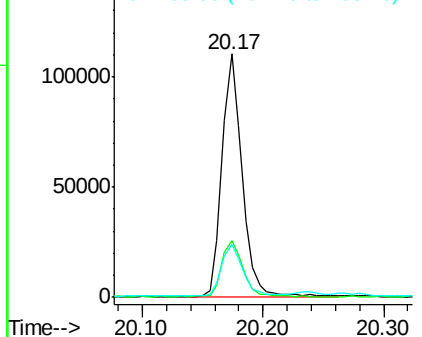
Tot Ion:	264	Resp:	128706
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.5	29.3
265	21.7	17.2	25.8

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



#87

Benzo(b)fluoranthene

Concen: 6.10 ng m

RT: 19.77 min Scan# 3075

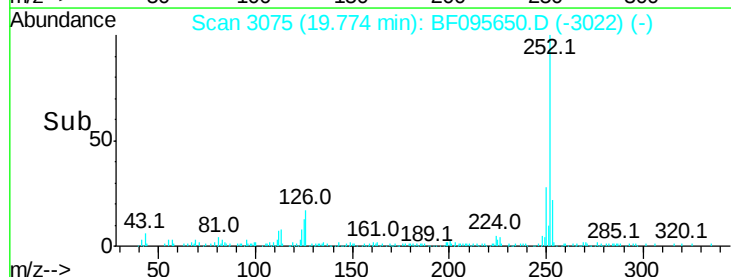
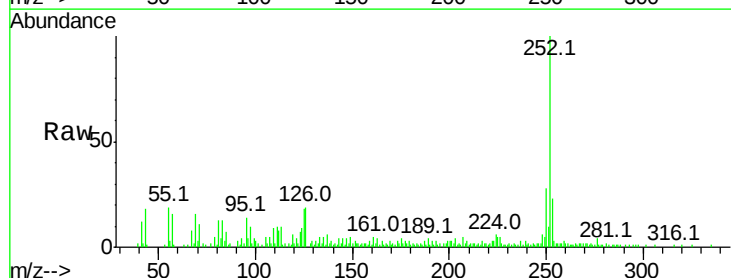
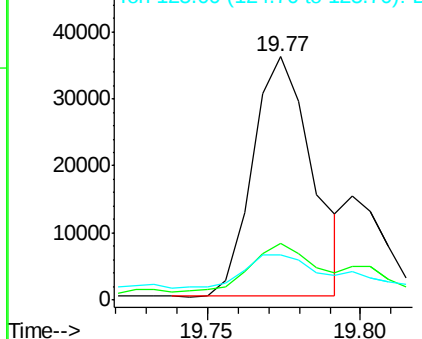
Delta R.T. 0.01 min

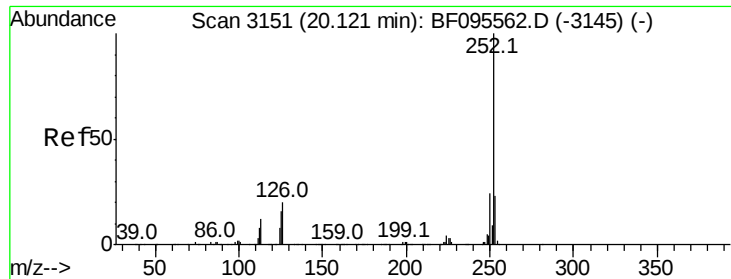
Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion:	252	Resp:	48494
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.1	27.1
125	18.4	9.8	14.8#

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





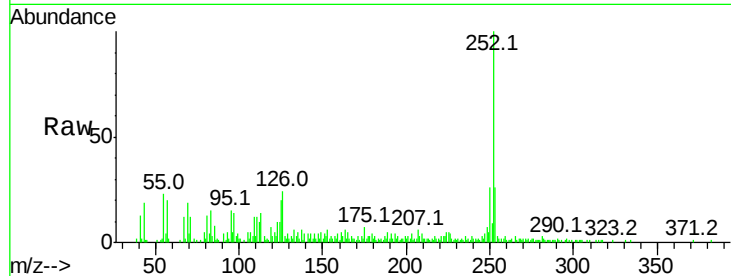
#89
Benzo(a)pyrene
Concen: 5.06 ng
RT: 20.12 min Scan# 3134
Delta R.T. 0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :
OR-RO-5267-060117

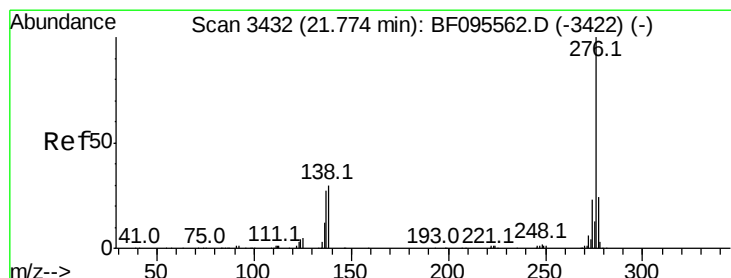
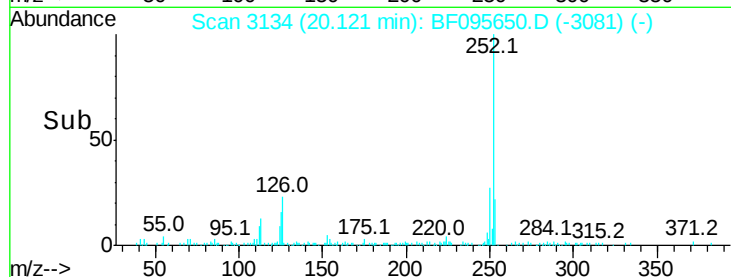
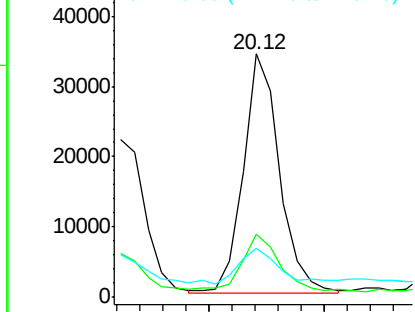
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.5	26.3
125	20.2	11.0	16.4

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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



#91
Benzo(g,h,i)perylene
Concen: 2.55 ng
RT: 21.80 min Scan# 3419
Delta R.T. 0.04 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	33.1	18.6	28.0
138	43.2	25.4	38.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

