

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095652.D
 Acq On : 3 Jun 2017 00:54
 Operator : SJ/MA
 Sample : I3441-05 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-141-060117

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Quant Time: Jun 05 12:15:31 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	93804	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	367765	20.00	ng	0.00
38) Acenaphthene-d10	12.40	164	146258	20.00	ng	0.00
63) Phenanthrene-d10	14.80	188	209960	20.00	ng	0.00
75) Chrysene-d12	18.50	240	173880	20.00	ng	0.00
86) Perylene-d12	20.17	264	123709	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	99811	17.74	ng	0.03
7) Phenol-d6	7.12	99	133891	19.83	ng	0.02
23) Nitrobenzene-d5	8.46	82	72376	12.41	ng	0.00
41) 2,4,6-Tribromophenol	13.70	330	20218	16.88	ng	0.00
44) 2-Fluorobiphenyl	11.35	172	165046	16.24	ng	0.00
78) Terphenyl-d14	17.14	244	96806	12.26	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	12.17	152	83302	5.35	ng	99
57) Fluorene	13.30	166	33872	3.03	ng	# 92
70) Phenanthrene	14.84	178	308429	25.57	ng	97
71) Anthracene	14.93	178	66783	5.42	ng	97
74) Fluoranthene	16.60	202	195782	15.82	ng	98
77) Pyrene	16.90	202	306471	23.57	ng	99
80) Benzo(a)anthracene	18.49	228	108540m	10.73	ng	
82) Chrysene	18.53	228	117666	12.03	ng	97
85) Indeno(1,2,3-cd)pyrene	21.43	276	28165	3.54	ng	93
87) Benzo(b)fluoranthene	19.77	252	71908m	9.41	ng	
88) Benzo(k)fluoranthene	19.80	252	25161m	3.41	ng	
89) Benzo(a)pyrene	20.12	252	65549	9.29	ng	# 93
91) Benzo(a,h,i)perylene	21.79	276	32191	5.63	ng	# 88

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

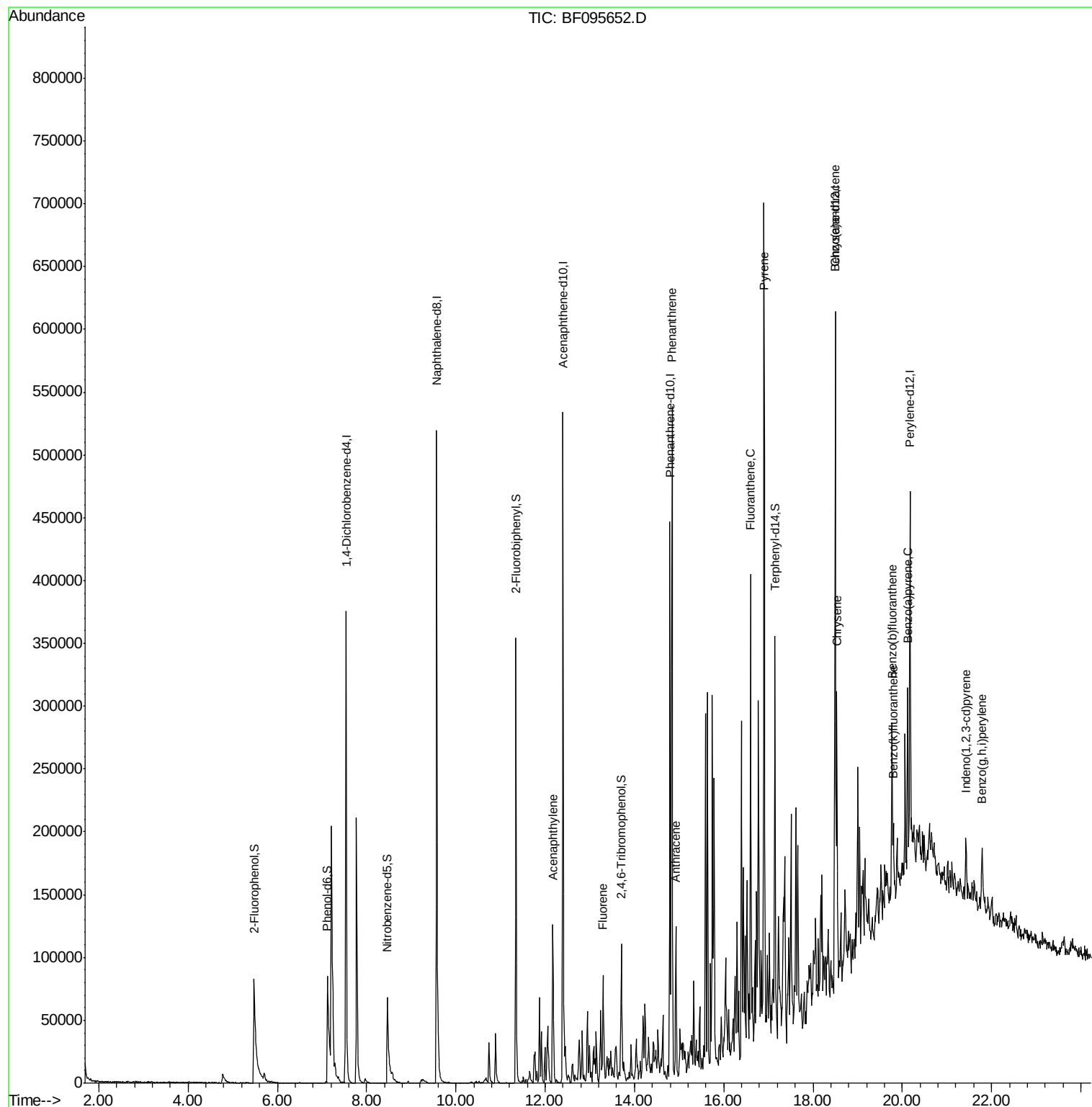
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
Data File : BF095652.D
Acq On : 3 Jun 2017 00:54
Operator : SJ/MA
Sample : I3441-05 5X
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ALS Vial : 22 Sample Multiplier: 1

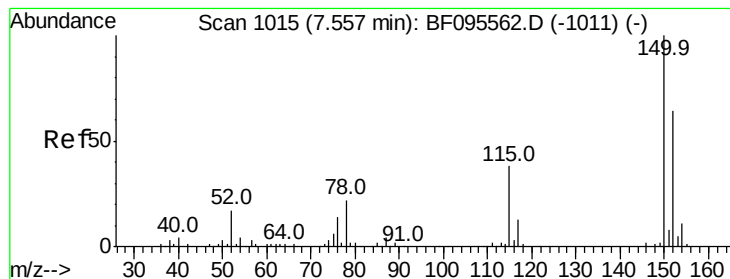
Instrument :
BNA_F
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OR-RO-141-060117

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Quant Time: Jun 05 12:15:31 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

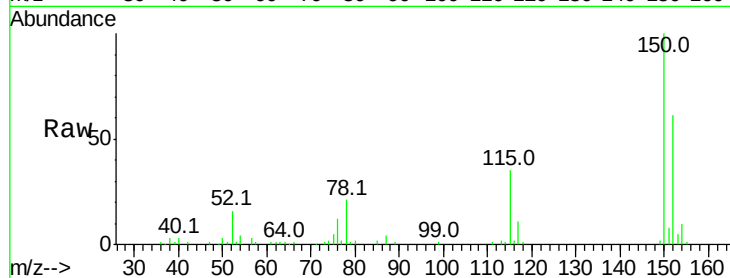
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.54 min Scan# 995
Delta R.T. 0.00 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Instrument :
BNA_F
ClientSampleId :
OR-RO-141-060117

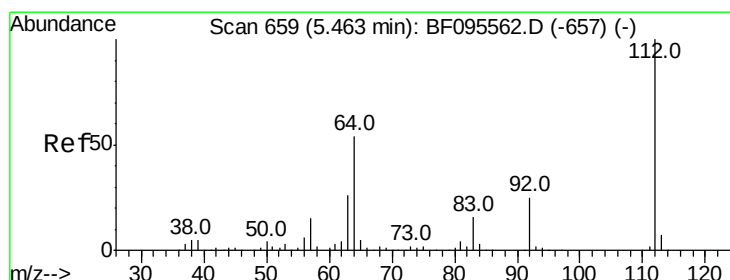
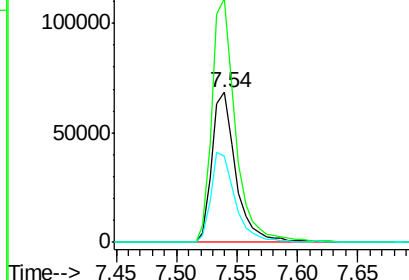
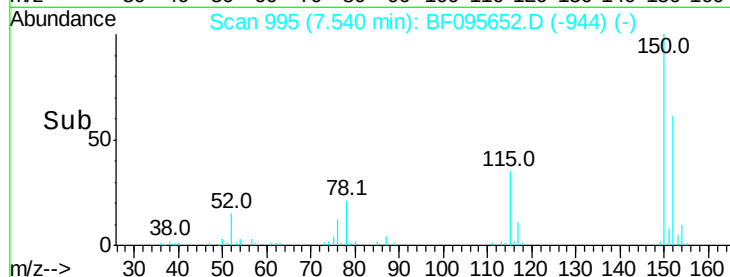
Tot Ion	Ratio	Lower	Upper
152	100		
150	162.8	126.2	189.2
115	57.2	52.2	78.2

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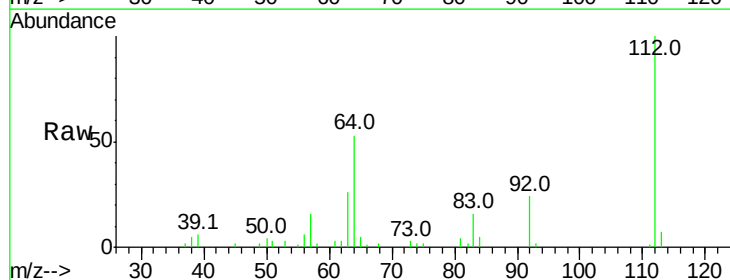
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



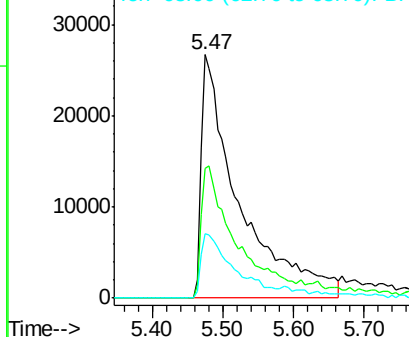
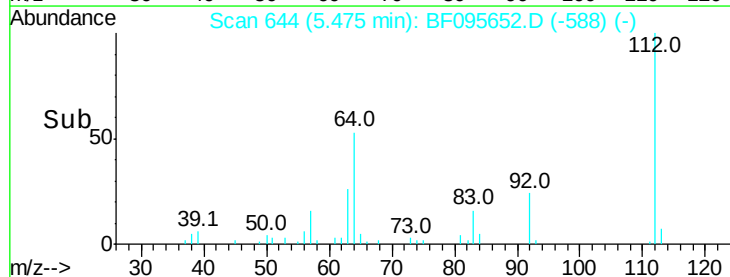
#5

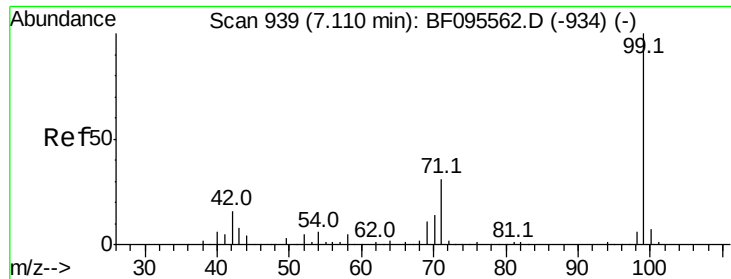
2-Fluorophenol
Concen: 17.74 ng
RT: 5.47 min Scan# 644
Delta R.T. 0.03 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	46.0	69.0
63	26.3	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: 19.83 ng

RT: 7.12 min Scan# 924

Delta R.T. 0.02 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

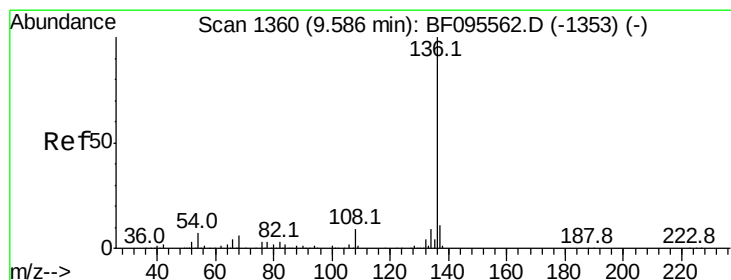
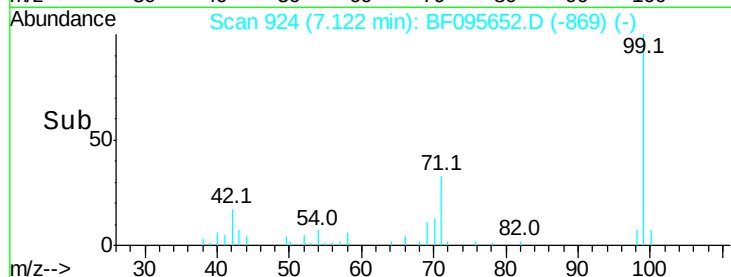
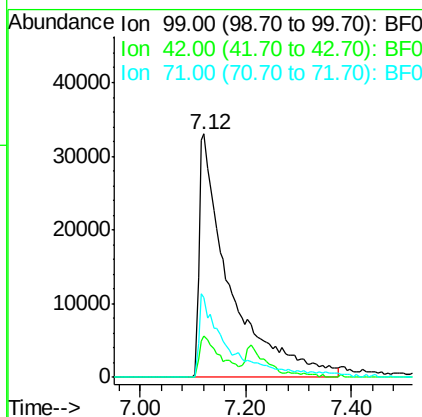
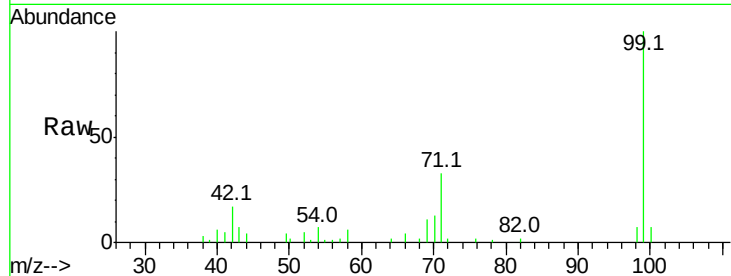
ClientSampleId :

OR-RO-141-060117

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		133891		
42	16.9	13.5	20.3		
71	32.8	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

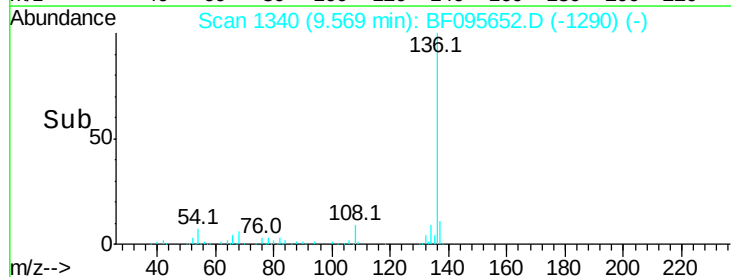
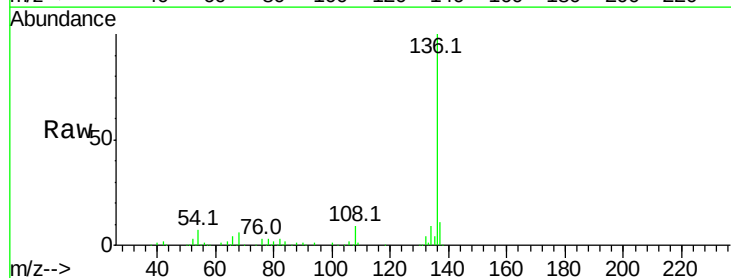
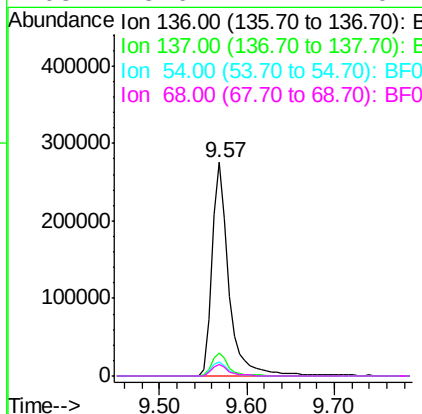
RT: 9.57 min Scan# 1340

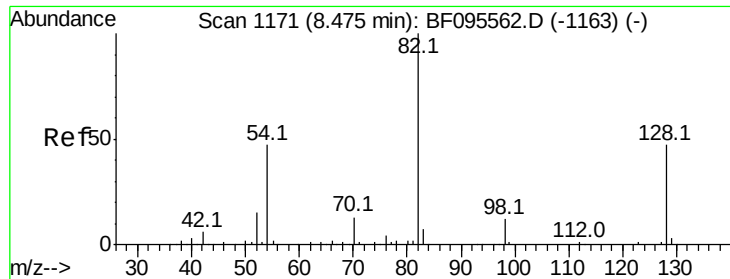
Delta R.T. -0.01 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		367765		
137	11.0	8.5	12.7		
54	6.6	4.9	7.3		
68	5.6	4.1	6.1		





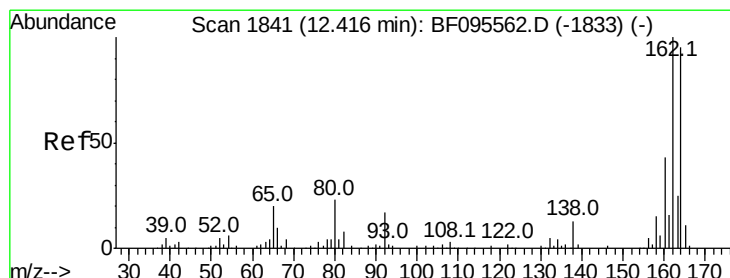
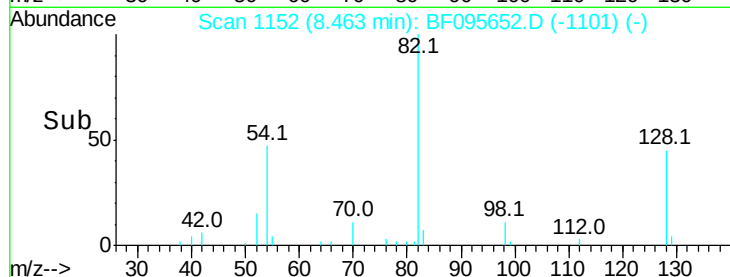
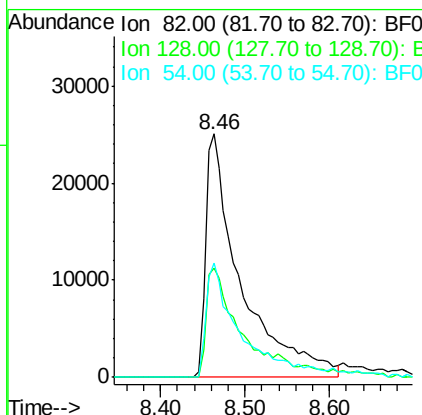
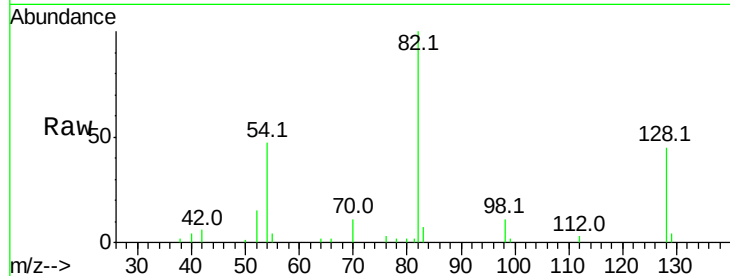
#23
 Nitrobenzene-d5
 Concen: 12.41 ng
 RT: 8.46 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BF095652.D
 Acq: 3 Jun 2017 00:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-141-060117

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.0	51.0
54	46.9	42.2	63.2

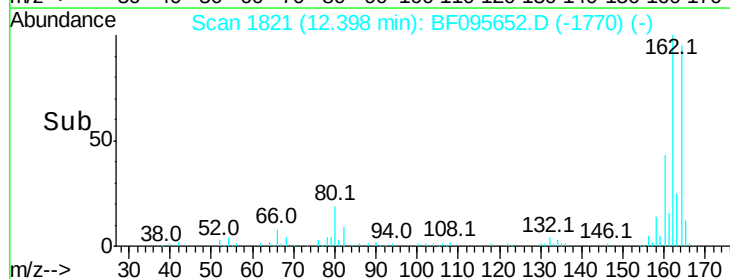
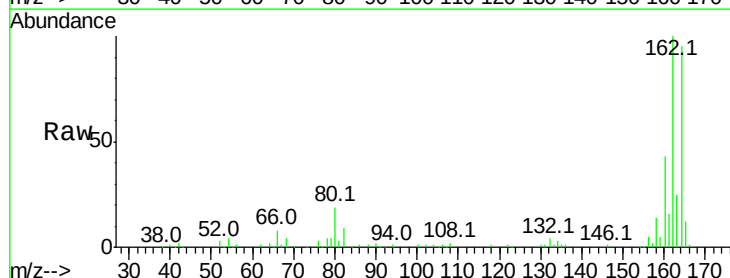
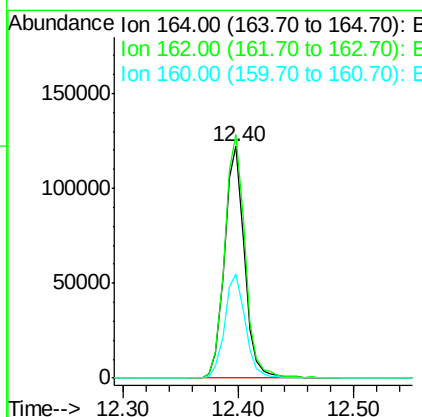
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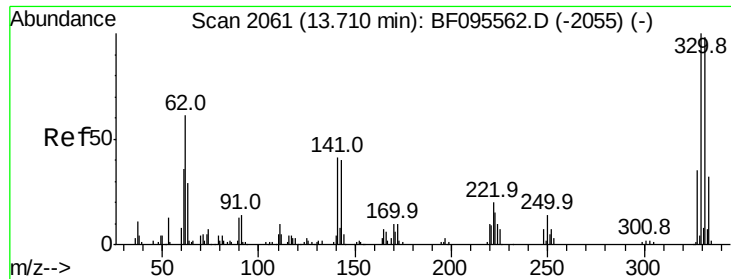
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.40 min Scan# 1821
 Delta R.T. 0.00 min
 Lab File: BF095652.D
 Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.9	82.6	123.8
160	44.6	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 16.88 ng

RT: 13.70 min Scan# 2043

Delta R.T. 0.01 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

ClientSampleId :

OR-RO-141-060117

Tot Ion:330 Resp: 20218

Ion Ratio Lower Upper

330 100

332 96.6 76.6 115.0

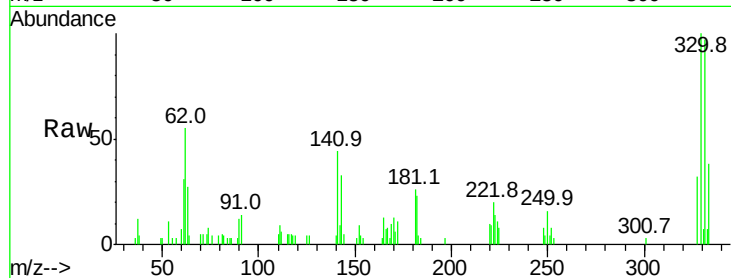
141 49.3 31.4 47.2#

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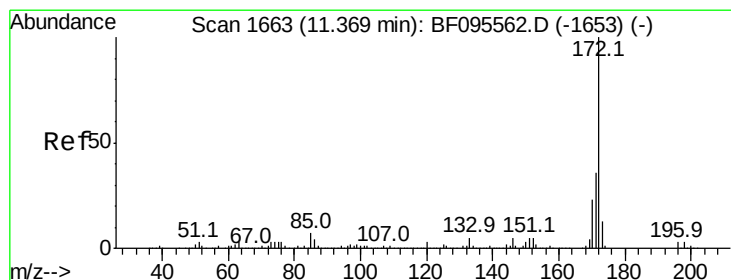
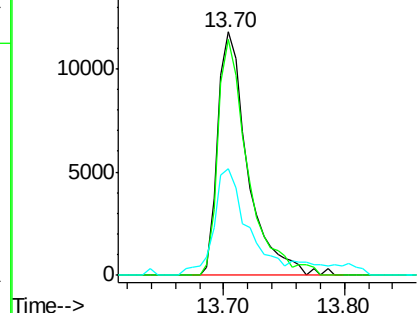
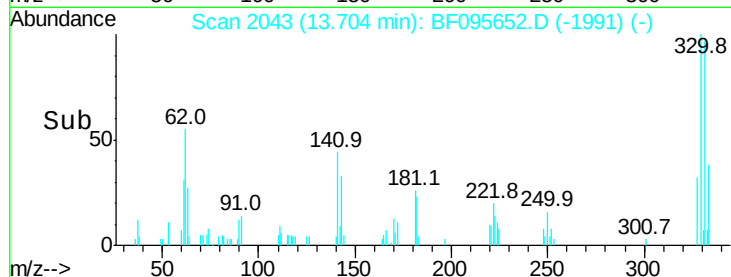
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Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 16.24 ng

RT: 11.35 min Scan# 1642

Delta R.T. -0.01 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

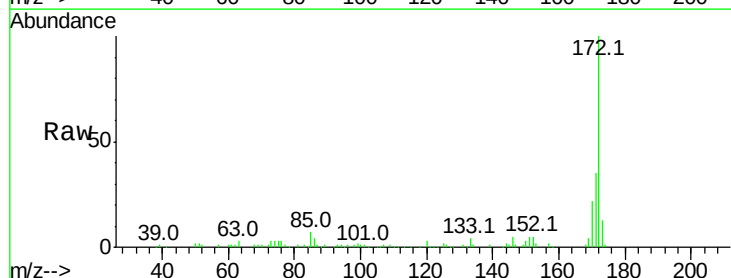
Tgt Ion:172 Resp: 165046

Ion Ratio Lower Upper

172 100

171 35.0 29.6 44.4

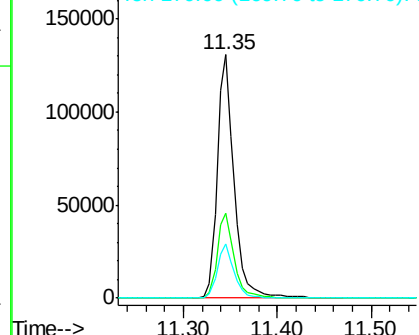
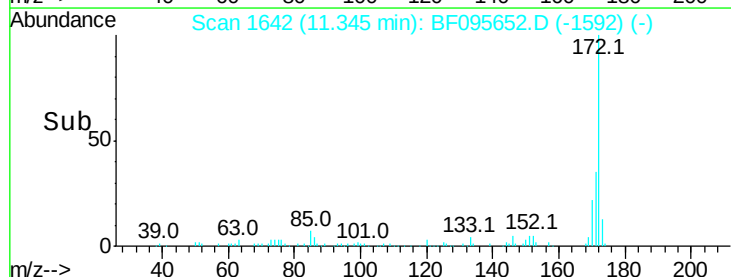
170 22.3 19.8 29.8

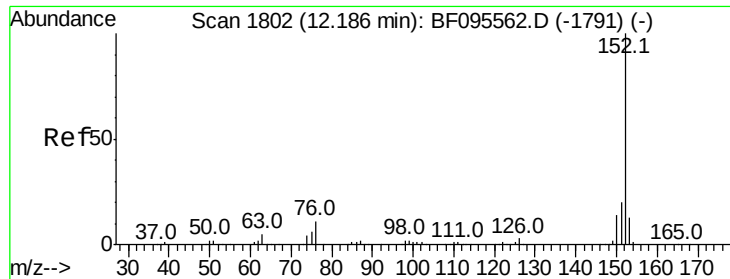


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 5.35 ng

RT: 12.17 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

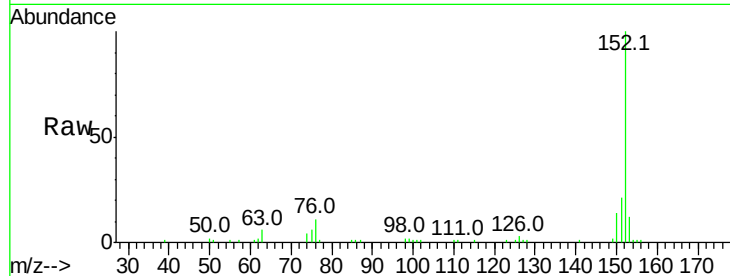
ClientSampleId :

OR-RO-141-060117

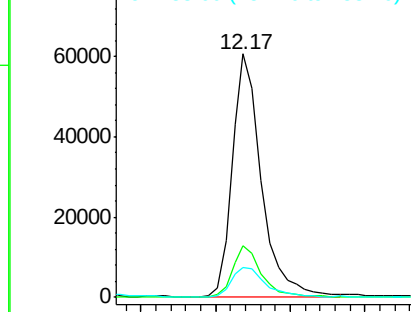
Tot Ion:	152	Resp:	83302
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.8	25.2
153	12.3	10.8	16.2

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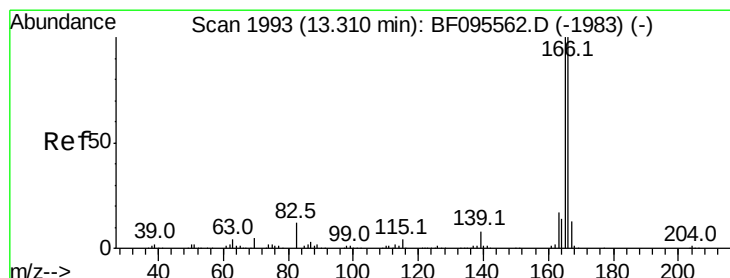
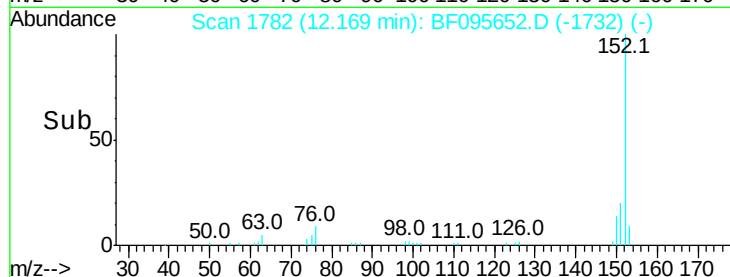
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



Time-->



#57

Fluorene

Concen: 3.03 ng

RT: 13.30 min Scan# 1974

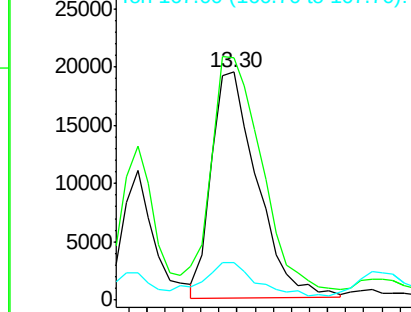
Delta R.T. 0.00 min

Lab File: BF095652.D

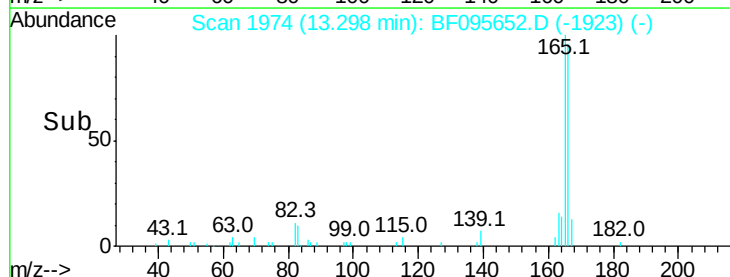
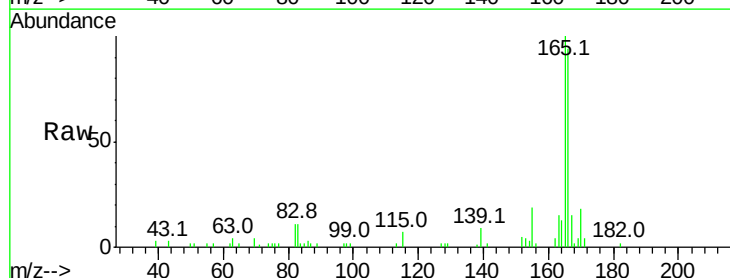
Acq: 3 Jun 2017 00:54

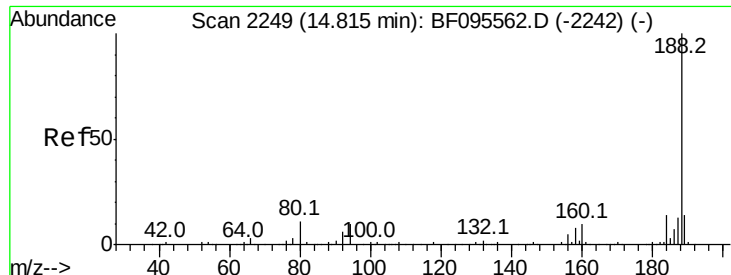
Tgt Ion:	166	Resp:	33872
Ion Ratio	Lower	Upper	
166	100		
165	106.1	78.8	118.2
167	16.2	10.6	16.0#

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



Time-->





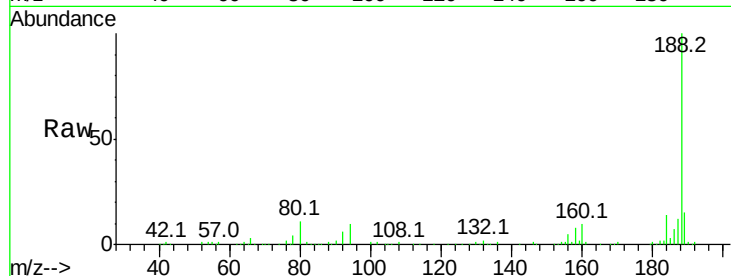
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.80 min Scan# 2229
Delta R.T. -0.01 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Instrument :
BNA_F
ClientSampleId :
OR-RO-141-060117

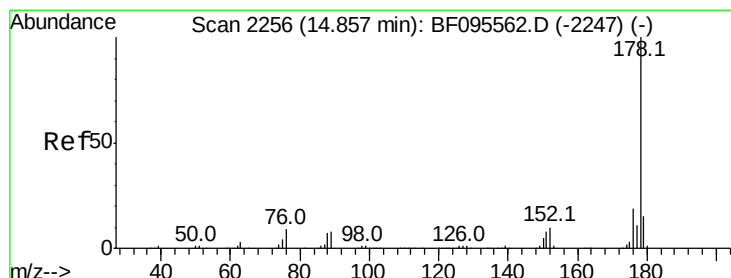
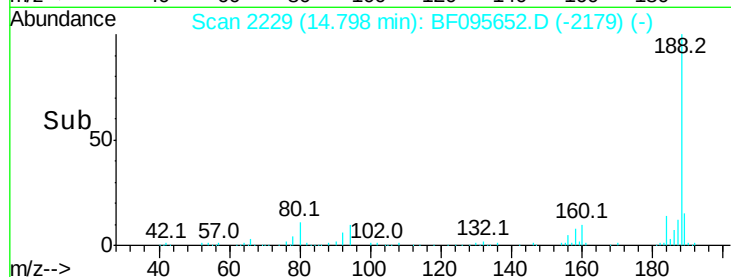
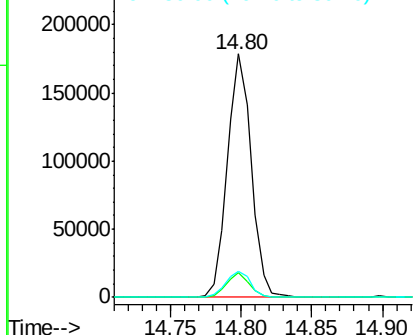
Tot Ion	Ratio	Resp	Lower	Upper
188	100	209960		
94	10.4		9.4	14.2
80	10.7		10.2	15.2

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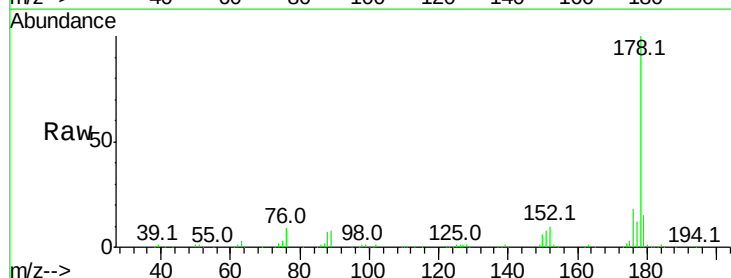


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

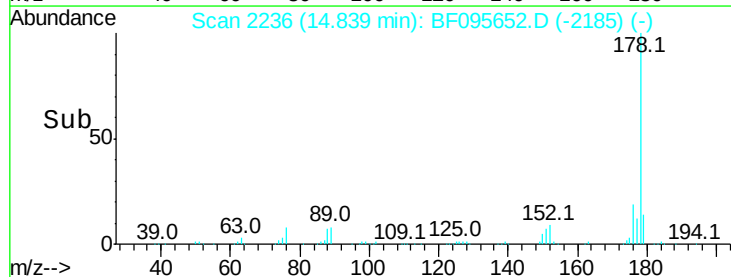
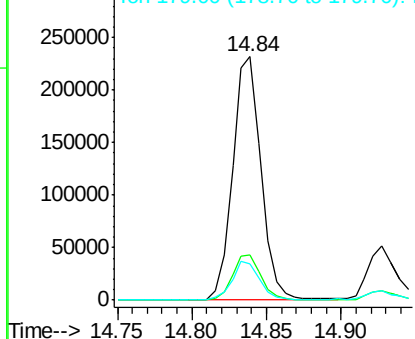


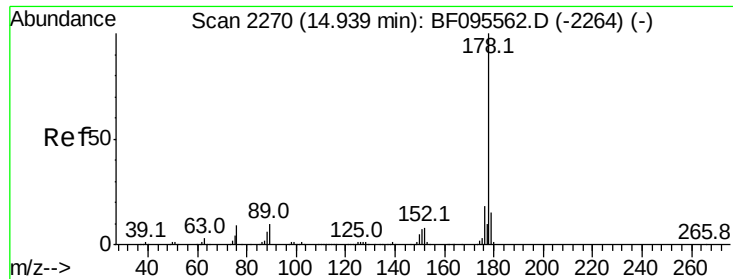
#70
Phenanthrene
Concen: 25.57 ng
RT: 14.84 min Scan# 2236
Delta R.T. 0.00 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	308429		
176	18.5		16.2	24.4
179	14.6		12.6	19.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.42 ng

RT: 14.93 min Scan# 2251

Delta R.T. 0.00 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

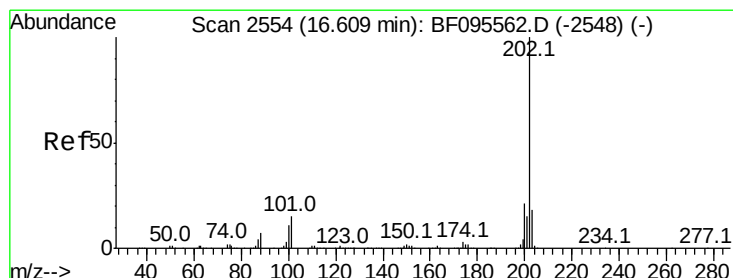
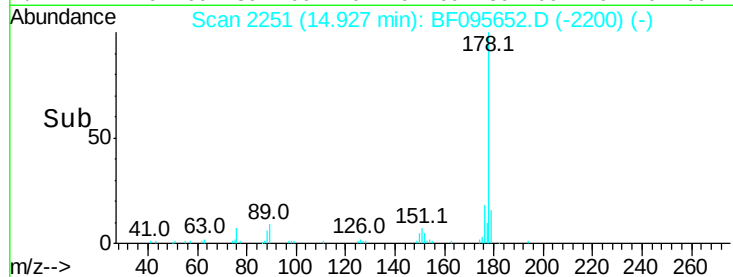
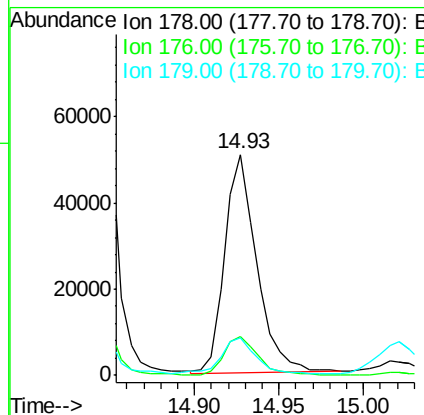
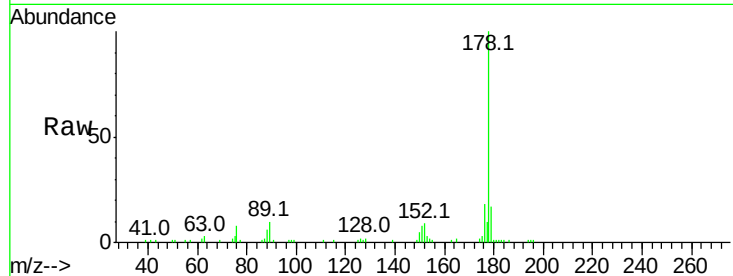
ClientSampleId :

OR-RO-141-060117

Tot Ion:	178	Resp:	66783
Ion Ratio	Lower	Upper	
178	100		
176	17.8	15.8	23.8
179	16.7	12.7	19.1

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#74

Fluoranthene

Concen: 15.82 ng

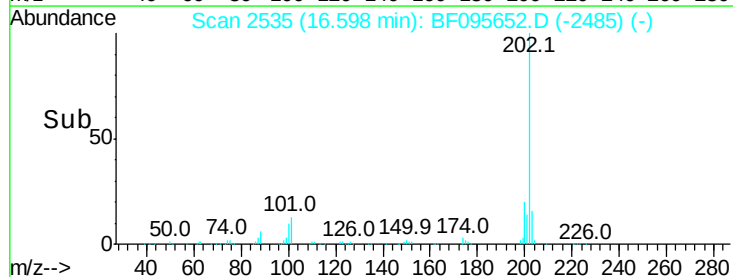
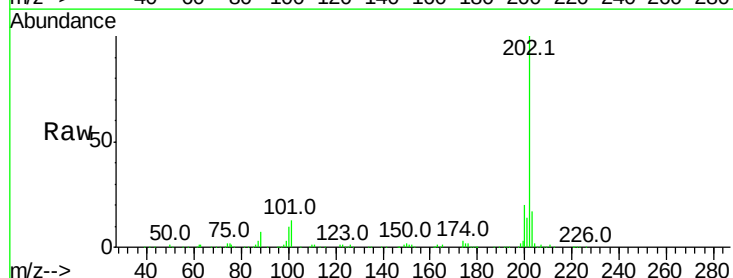
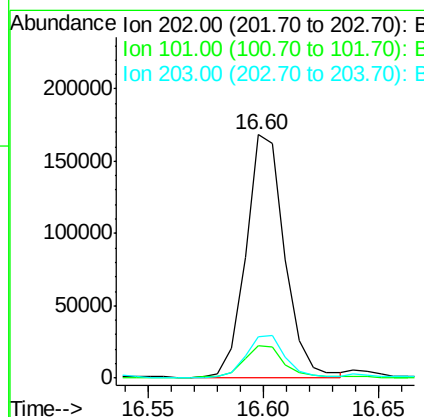
RT: 16.60 min Scan# 2535

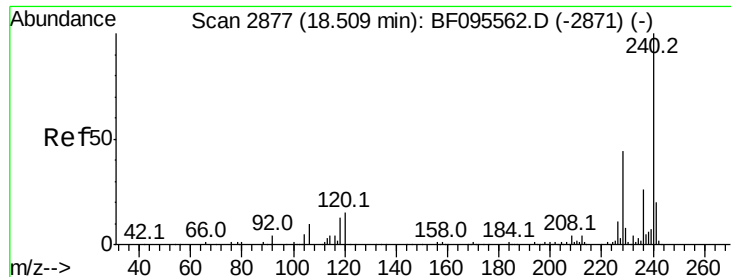
Delta R.T. -0.01 min

Lab File: BF095652.D

Acq: 3 Jun 2017 00:54

Tgt Ion:	202	Resp:	195782
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	33.2
203	16.8	0.0	38.1





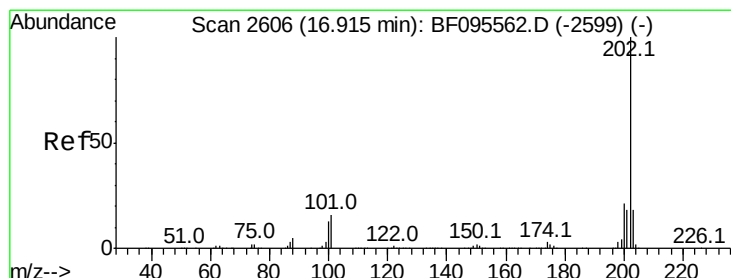
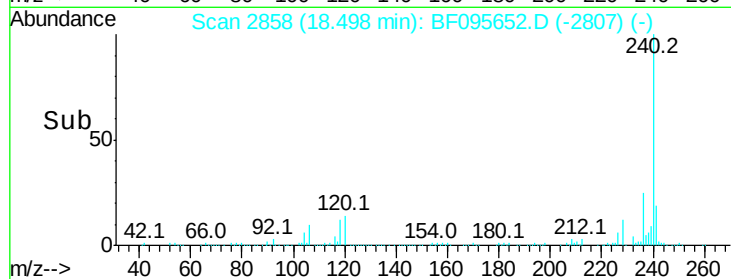
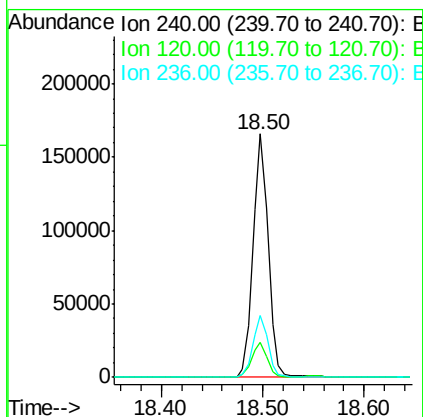
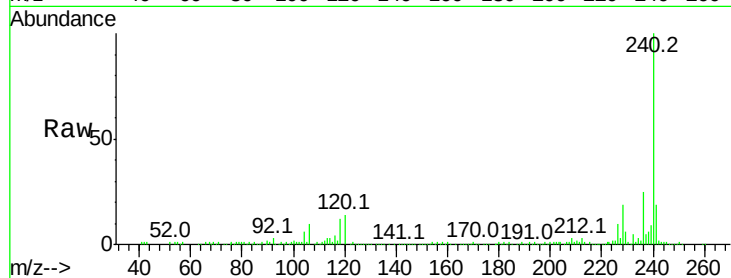
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.50 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: BF095562.D
 Acq: 3 Jun 2017 00:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-141-060117

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.3	5.8	8.8#
236	25.2	20.5	30.7

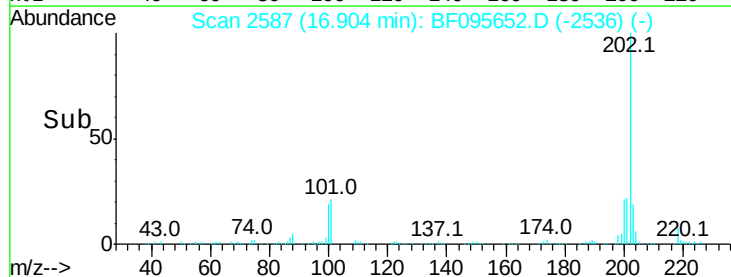
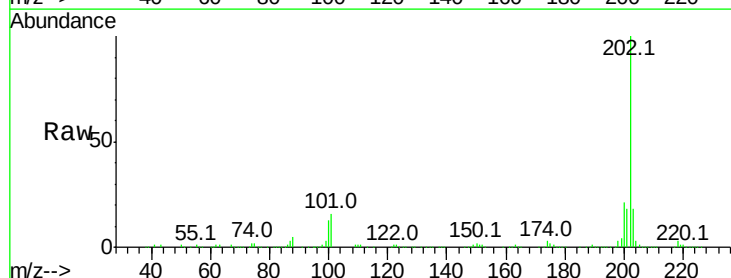
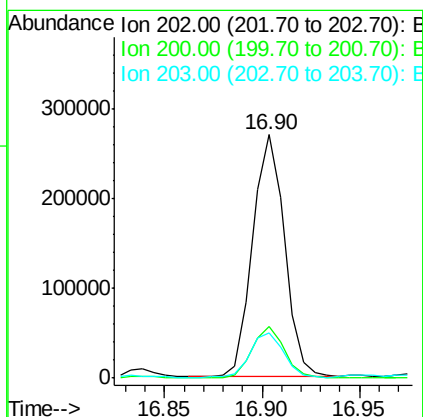
Manual Integrations
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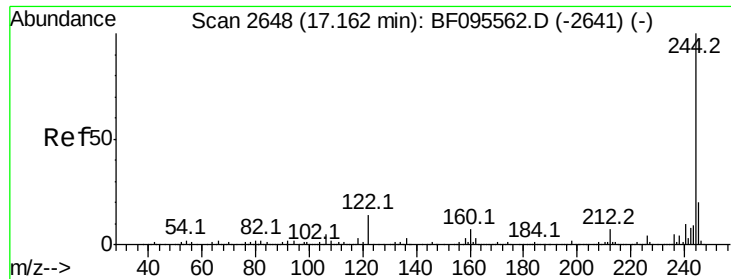
mohammad
 6/6/2017 8:49:24 AM



#77
 Pyrene
 Concen: 23.57 ng
 RT: 16.90 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: BF095562.D
 Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4
203	18.3	14.4	21.6





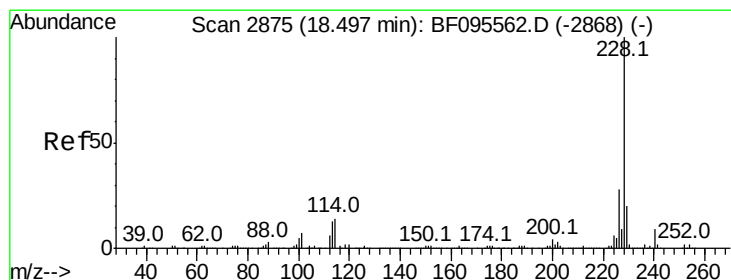
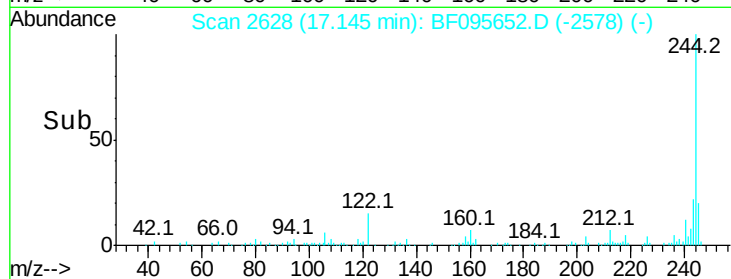
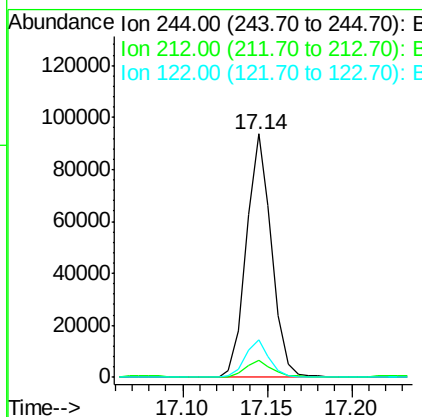
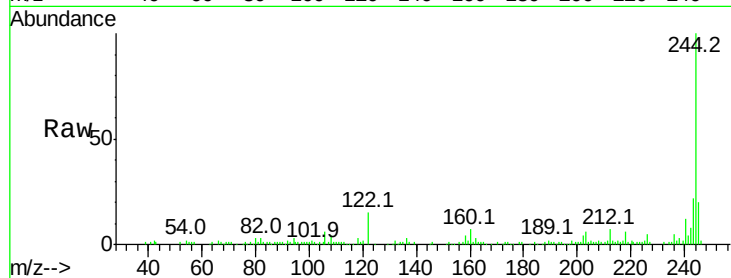
#78
 Terphenyl-d14
 Concen: 12.26 ng
 RT: 17.14 min Scan# 2628
 Delta R.T. -0.01 min
 Lab File: BF095562.D
 Acq: 3 Jun 2017 00:54

Instrument :
 BNA_F
 ClientSampleId :
 OR-RO-141-060117

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	15.3	10.3	15.5

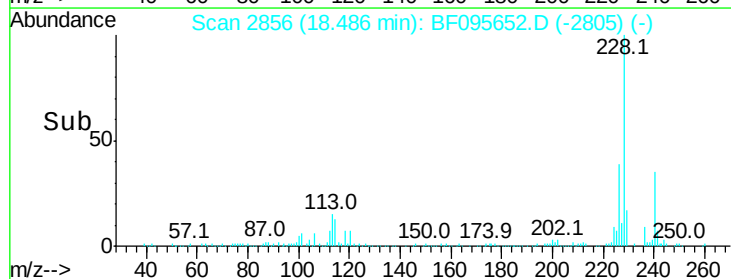
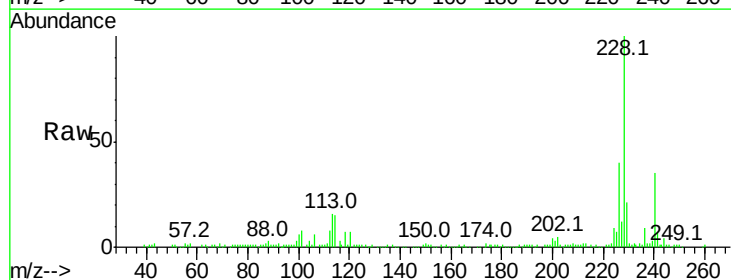
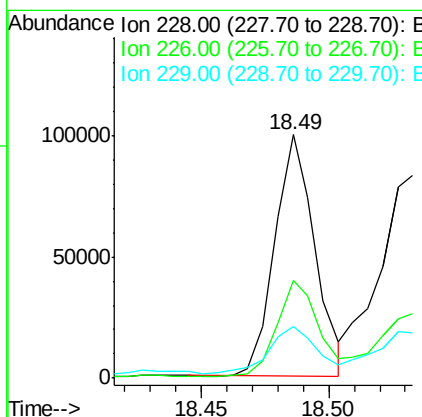
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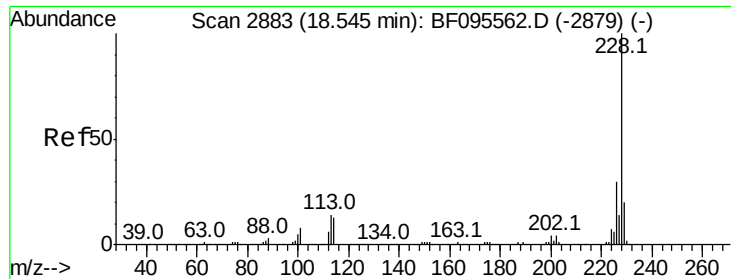
mohammad
 6/6/2017 8:49:24 AM



#80
 Benzo(a)anthracene
 Concen: 10.73 ng m
 RT: 18.49 min Scan# 2856
 Delta R.T. 0.00 min
 Lab File: BF095562.D
 Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.9	22.6	33.8#
229	21.2	16.3	24.5





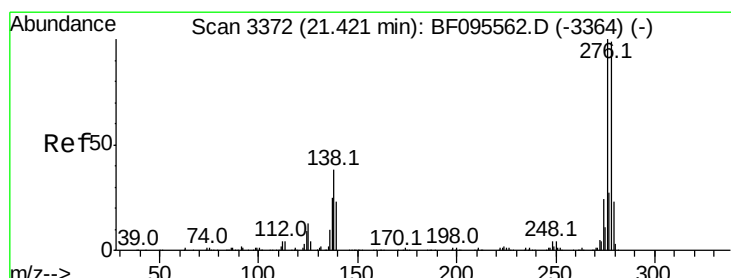
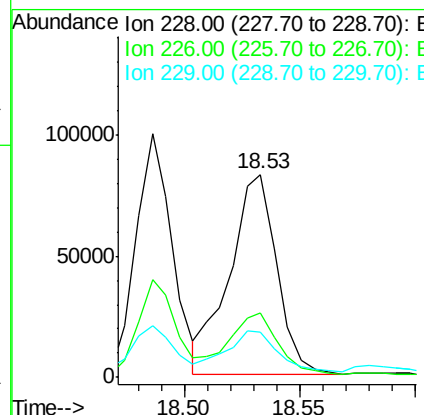
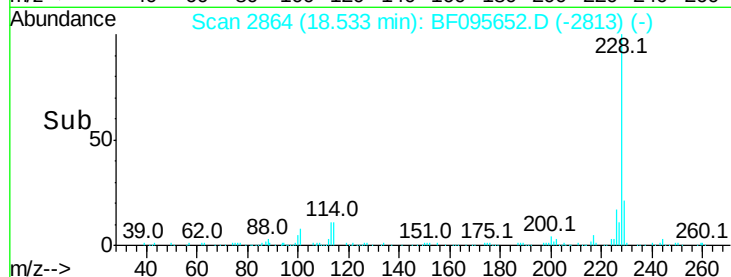
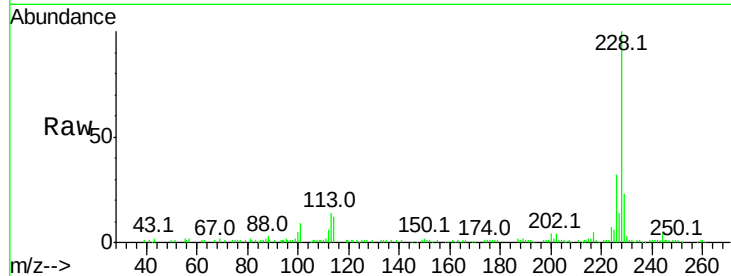
#82
Chrysene
Concen: 12.03 ng
RT: 18.53 min Scan# 2864
Delta R.T. 0.00 min
Lab File: BF095562.D
Acq: 3 Jun 2017 00:54

Instrument :
BNA_F
ClientSampleId :
OR-RO-141-060117

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	22.5	15.8	23.6

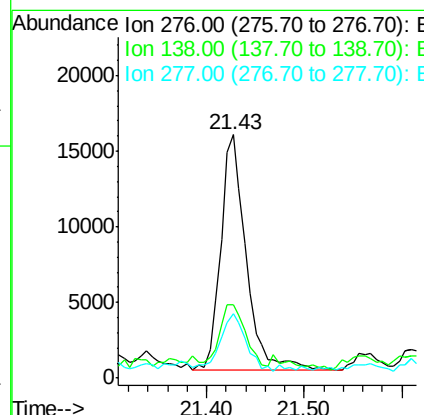
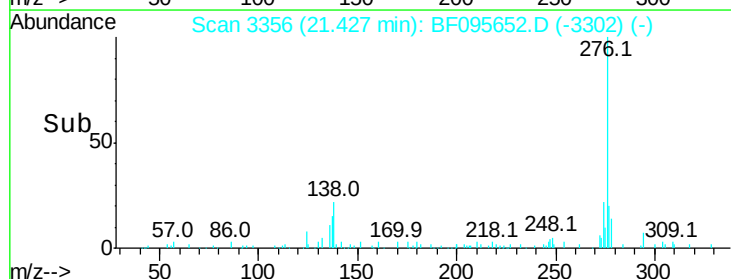
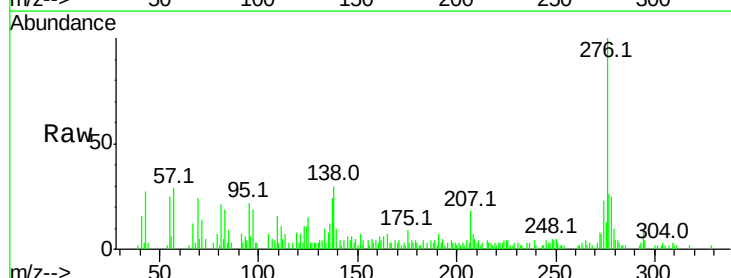
Manual Integrations
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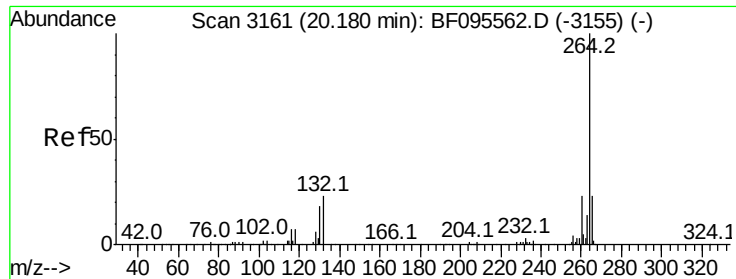
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.54 ng
RT: 21.43 min Scan# 3356
Delta R.T. 0.02 min
Lab File: BF095562.D
Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.1	27.8	41.6
277	24.6	20.2	30.4





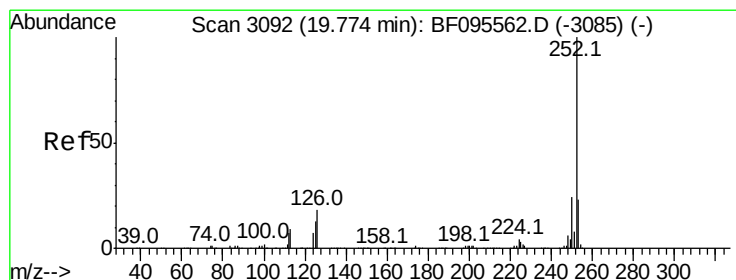
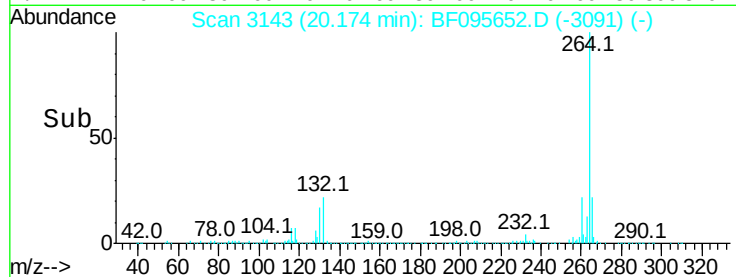
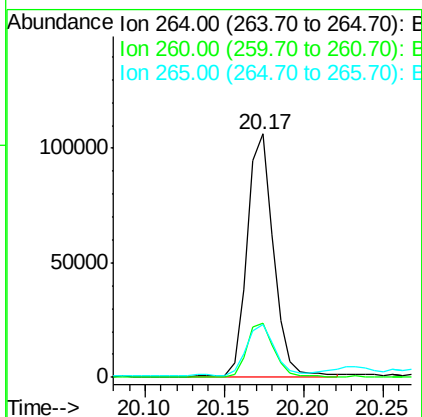
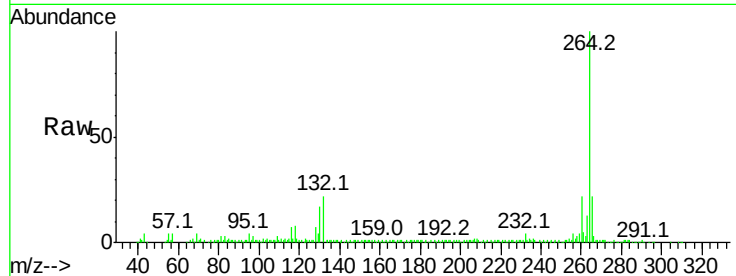
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.17 min Scan# 3143
Delta R.T. 0.01 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Instrument :
BNA_F
ClientSampleId :
OR-RO-141-060117

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	22.3	19.5	29.3	
265	22.0	17.2	25.8	

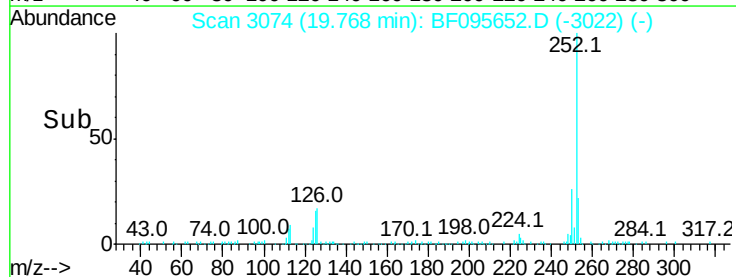
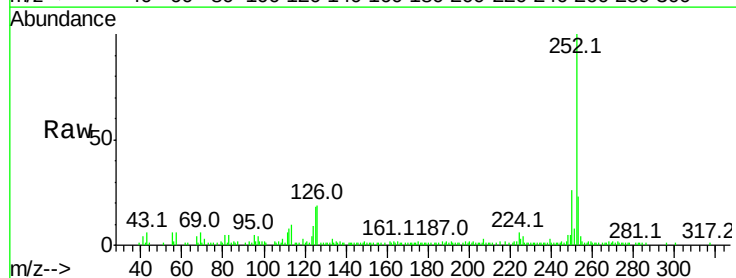
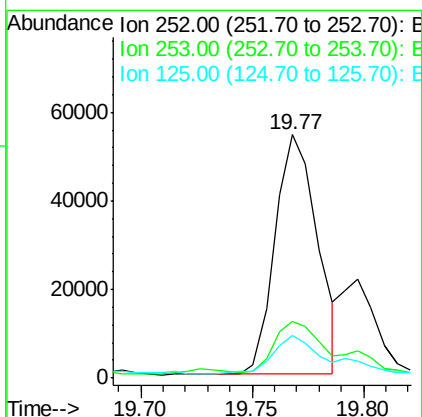
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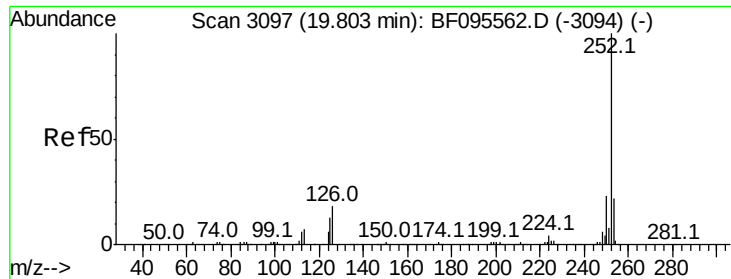
mohammad
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#87
Benzo(b)fluoranthene
Concen: 9.41 ng m
RT: 19.77 min Scan# 3074
Delta R.T. 0.01 min
Lab File: BF095652.D
Acq: 3 Jun 2017 00:54

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.3	18.1	27.1	
125	17.7	9.8	14.8#	





#88

Benzo(k)fluoranthene

Concen: 3.41 ng/mL

RT: 19.80 min Scan# 3079

Delta R.T. 0.01 min

Lab File: BF095562.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

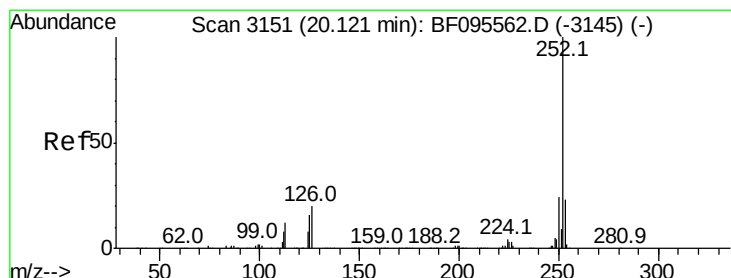
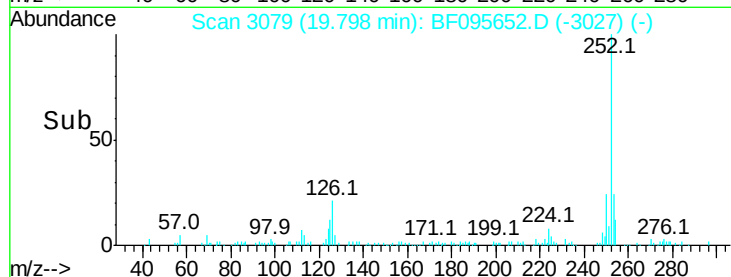
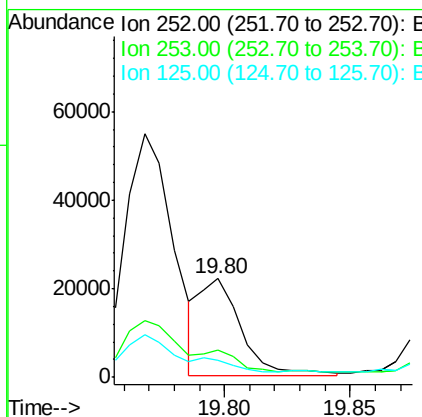
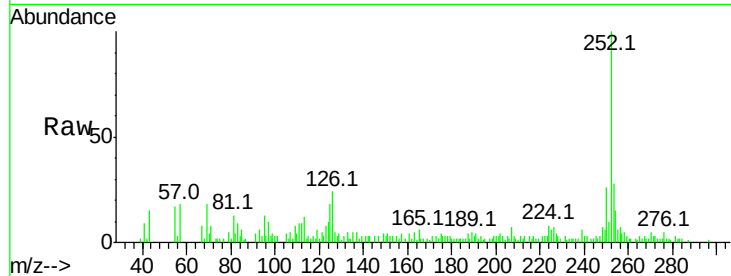
ClientSampleId :

OR-RO-141-060117

Tot Ion:	252	Resp:	25161
Ion Ratio	Lower	Upper	
252	100		
253	27.9	18.4	27.6#
125	17.7	13.1	19.7

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 9.29 ng/mL

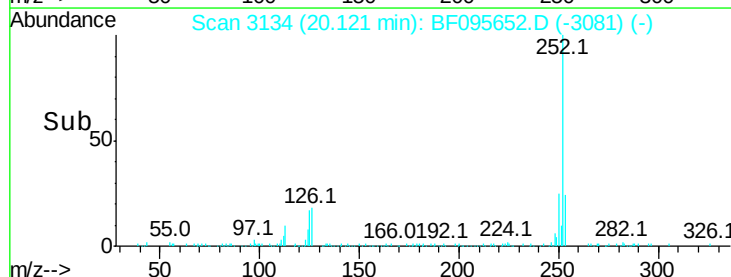
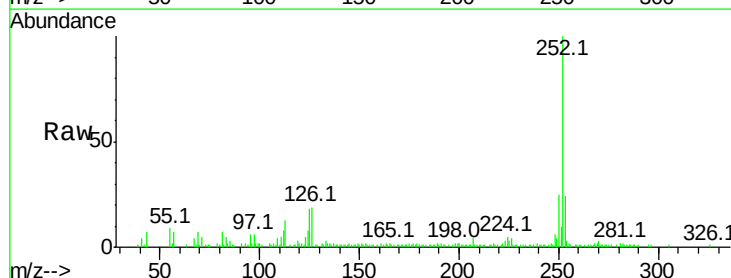
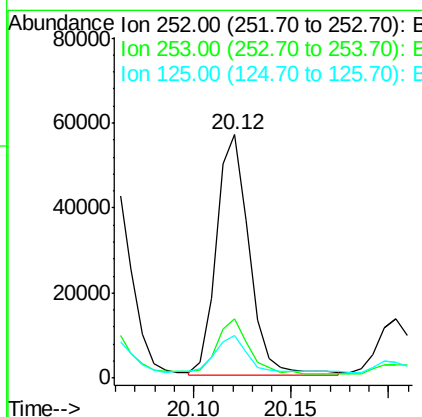
RT: 20.12 min Scan# 3134

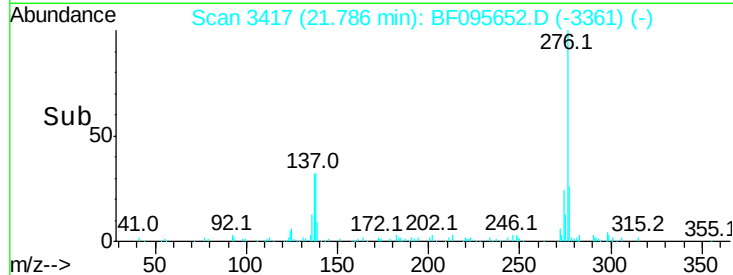
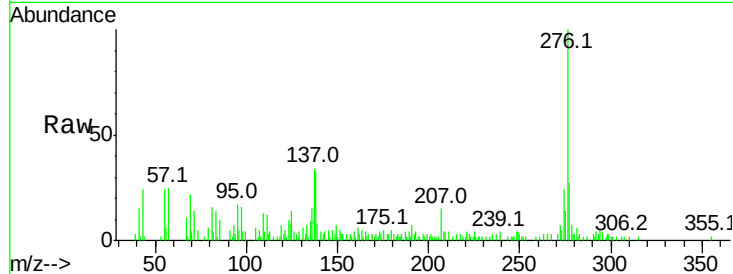
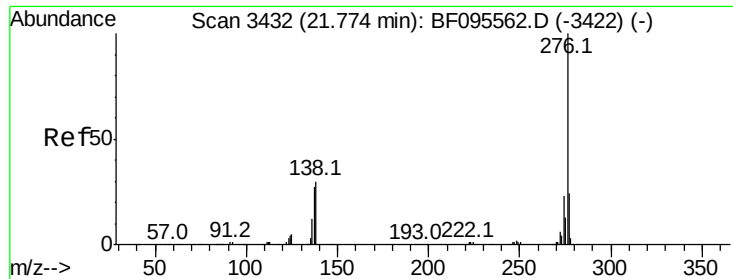
Delta R.T. 0.01 min

Lab File: BF095562.D

Acq: 3 Jun 2017 00:54

Tgt Ion:	252	Resp:	65549
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.5	26.3
125	17.5	11.0	16.4#





#91

Benzo(a,h,i)perylene

Concen: 5.63 ng

RT: 21.79 min Scan# 3417

Delta R.T. 0.03 min

Lab File: BF095562.D

Acq: 3 Jun 2017 00:54

Instrument :

BNA_F

ClientSampleId :

OR-RO-141-060117

Tot Ion: 276 Resp: 32191

Ion Ratio Lower Upper

276 100

277 26.6 18.6 28.0

138 40.7 25.4 38.0#

Manual Integrations

APPROVED

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6/6/2017 8:49:24 AM

