

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
 Data File : BF095536.D
 Acq On : 30 May 2017 15:35
 Operator : SJ/MA
 Sample : I3281-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012

Manual Integrations
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Quant Time: May 31 02:41:34 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	101476	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	406703	20.00	ng	0.00
38) Acenaphthene-d10	12.58	164	185679	20.00	ng	-0.01
63) Phenanthrene-d10	14.99	188	282226	20.00	ng	0.00
75) Chrysene-d12	18.68	240	191461	20.00	ng	0.00
86) Perylene-d12	20.36	264	209770	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	632232	103.87	ng	0.00
7) Phenol-d6	7.28	99	777656	106.49	ng	-0.01
23) Nitrobenzene-d5	8.64	82	437899	67.90	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	128553	84.54	ng	0.00
44) 2-Fluorobiphenyl	11.52	172	682833	52.93	ng	-0.01
78) Terphenyl-d14	17.32	244	394142	45.34	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.80	128	94333	4.61	ng	99
37) 2-Methylnaphthalene	10.92	142	87897	6.55	ng	98
45) 1,1'-Biphenyl	11.69	154	33380	2.14	ng	98
48) Acenaphthylene	12.36	152	107601	5.44	ng	# 94
49) Dimethylphthalate	12.22	163	147962	9.71	ng	99
51) Acenaphthene	12.64	154	154397	13.07	ng	97
54) Dibenzofuran	12.93	168	173839	10.64	ng	99
57) Fluorene	13.48	166	382915	26.95	ng	100
70) Phenanthrene	15.04	178	1550915	95.64	ng	98
71) Anthracene	15.12	178	903765	54.56	ng	99
74) Fluoranthene	16.79	202	1413213	84.96	ng	98
77) Pyrene	17.09	202	1208499	84.40	ng	98
80) Benzo(a)anthracene	18.67	228	975237	87.52	ng	# 90
82) Chrysene	18.71	228	773373m	71.78	ng	
85) Indeno(1,2,3-cd)pyrene	21.69	276	242137	27.67	ng	91
87) Benzo(b)fluoranthene	19.95	252	792800m	61.16	ng	
88) Benzo(k)fluoranthene	19.98	252	320690m	25.65	ng	
89) Benzo(a)pyrene	20.31	252	686494	57.40	ng	97
90) Dibenzo(a,h)anthracene	21.68	278	75617	7.66	ng	# 79
91) Benzo(g,h,i)perylene	22.08	276	185744	19.16	ng	98

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

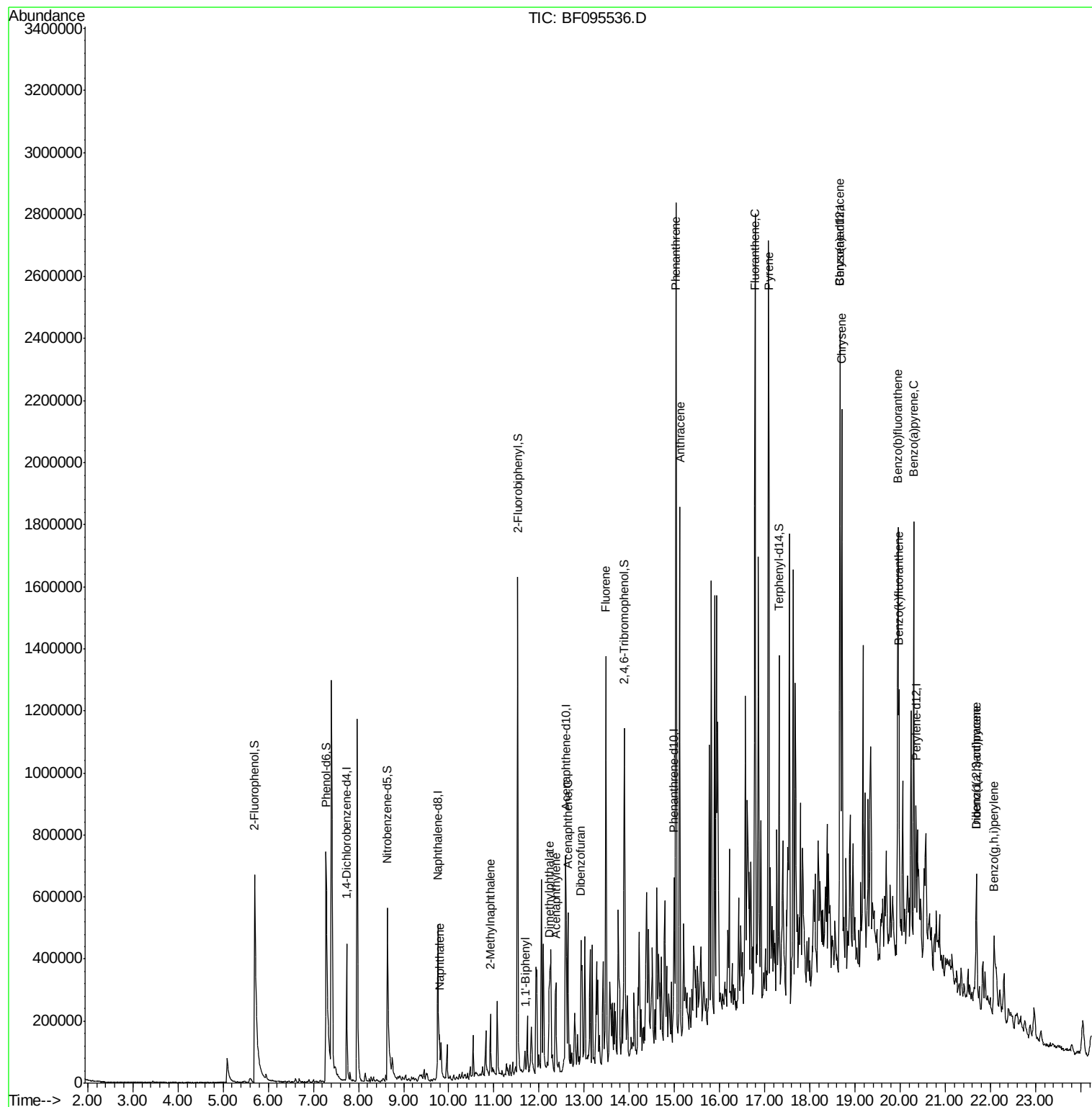
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
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ALS Vial : 7 Sample Multiplier: 1

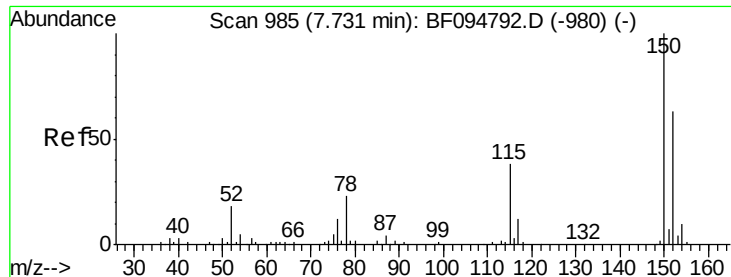
Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

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#1

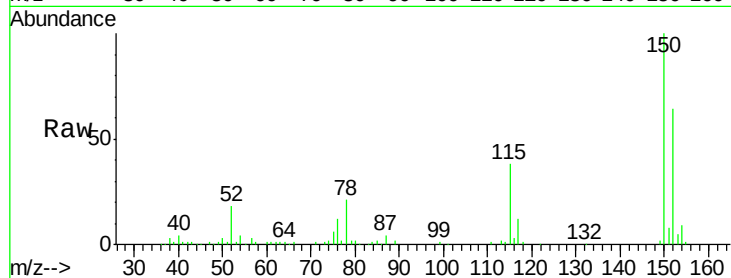
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

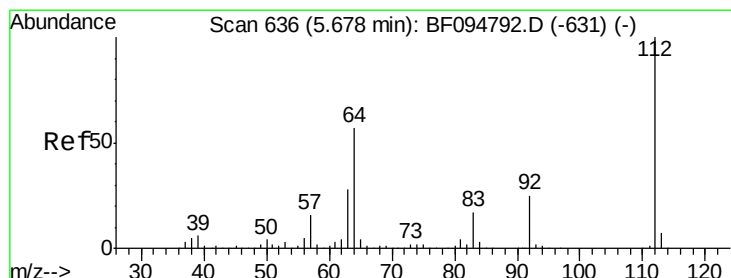
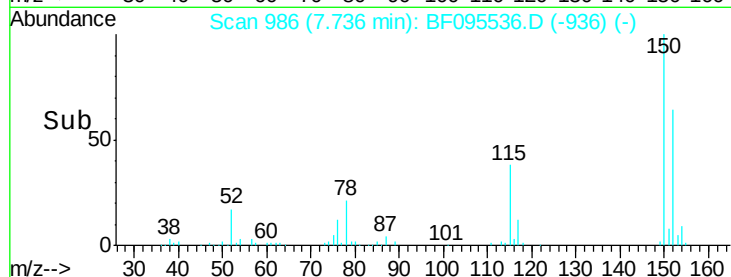
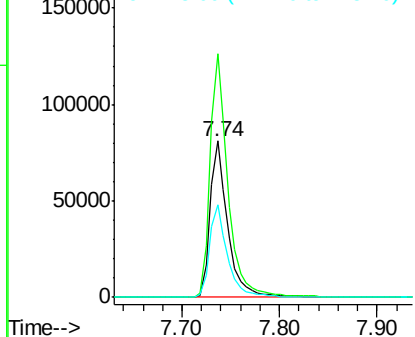
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.7	126.2	189.2
115	59.3	52.2	78.2

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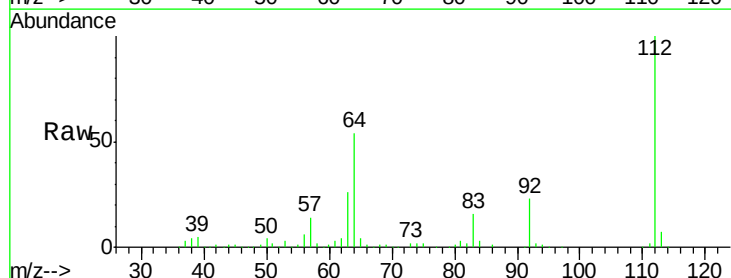
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



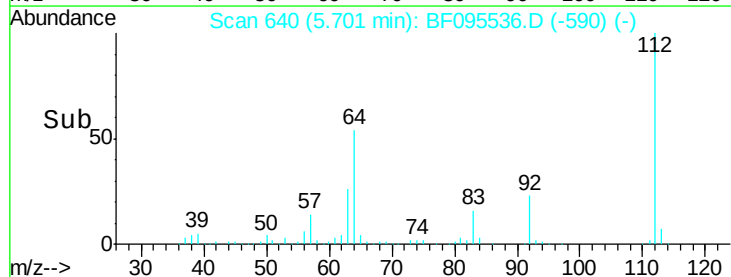
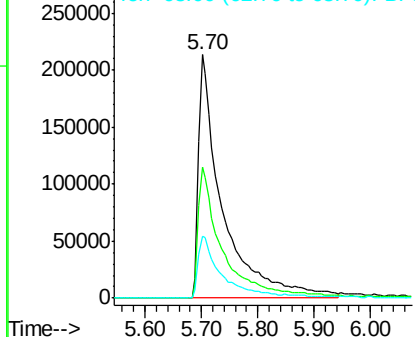
#5

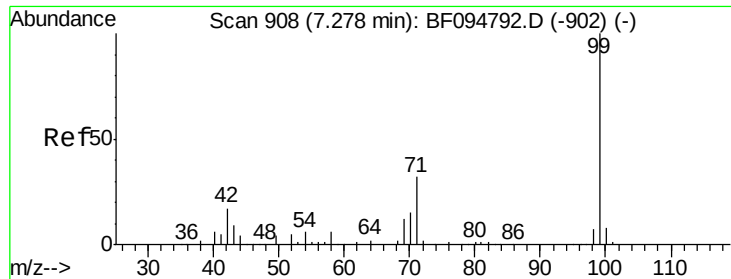
2-Fluorophenol
Concen: 103.87 ng
RT: 5.70 min Scan# 640
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	46.0	69.0
63	25.6	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: 106.49 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Instrument :

BNA_F

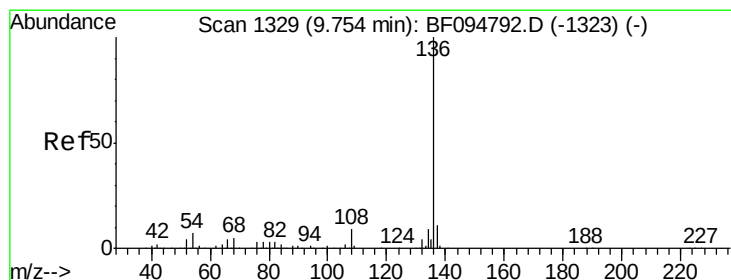
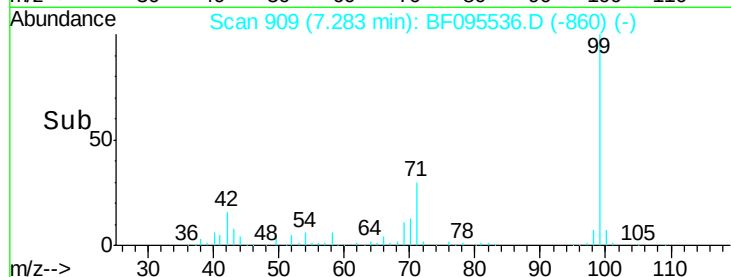
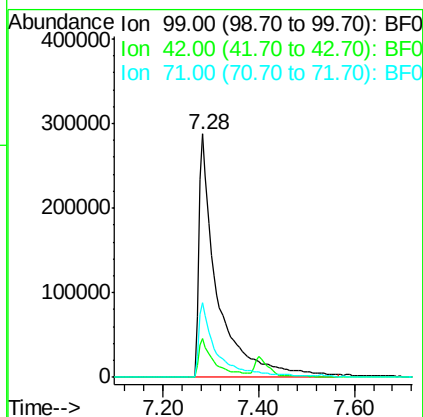
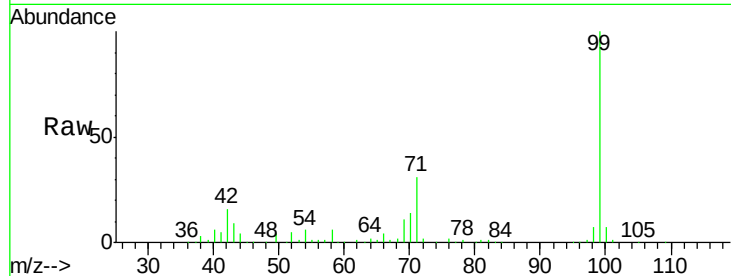
ClientSampleId :

R1-TP-2-D1012

Tgt Ion:	99	Resp:	777656
Ion	Ratio	Lower	Upper
99	100		
42	15.7	13.5	20.3
71	30.5	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

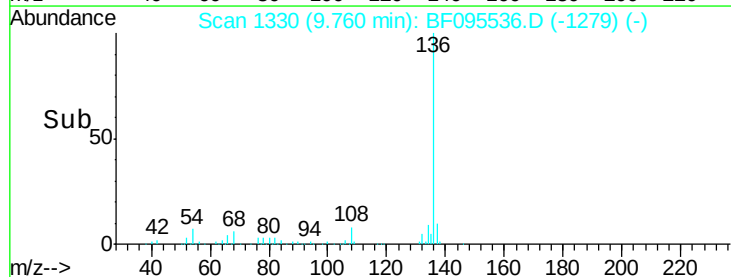
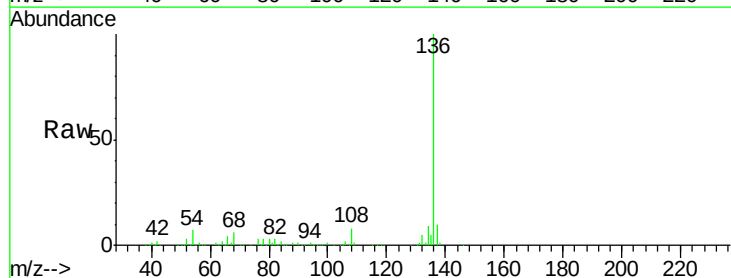
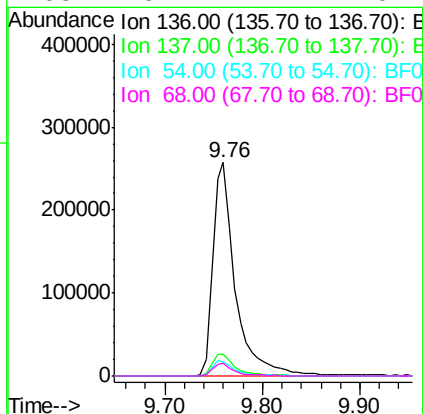
RT: 9.76 min Scan# 1330

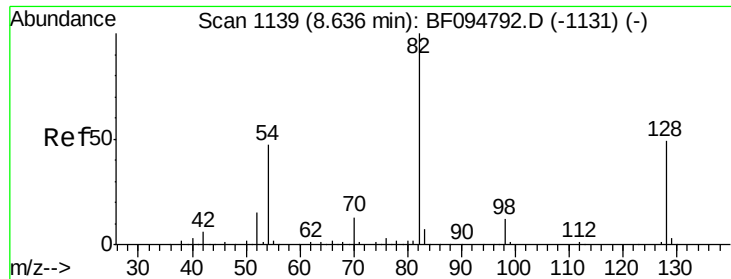
Delta R.T. -0.00 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Tgt Ion:	136	Resp:	406703
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.5	12.7
54	6.7	4.9	7.3
68	5.7	4.1	6.1





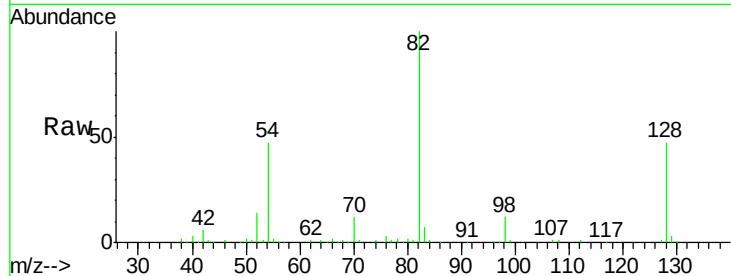
#23
 Nitrobenzene-d5
 Concen: 67.90 ng
 RT: 8.64 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Instrument :
 BNA_F
 ClientSampled :
 R1-TP-2-D1012

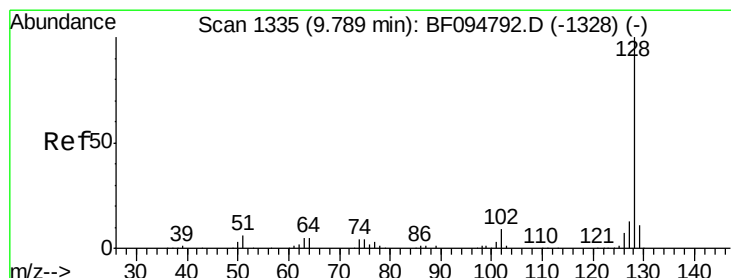
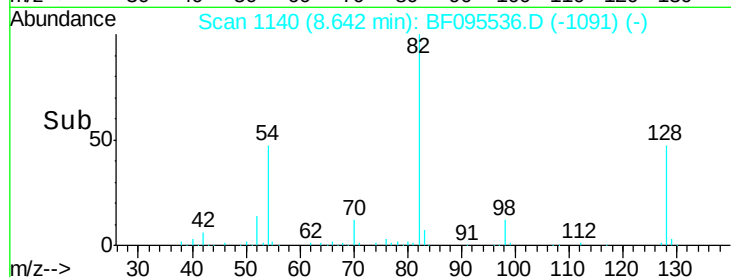
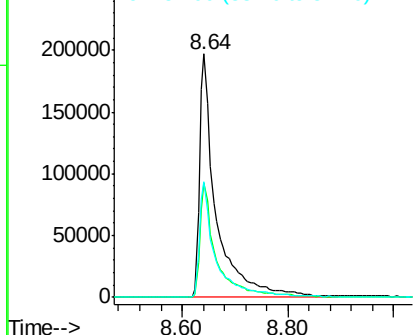
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.0	34.0	51.0
54	47.4	42.2	63.2

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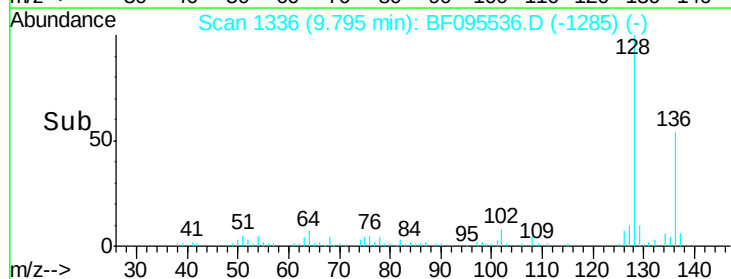
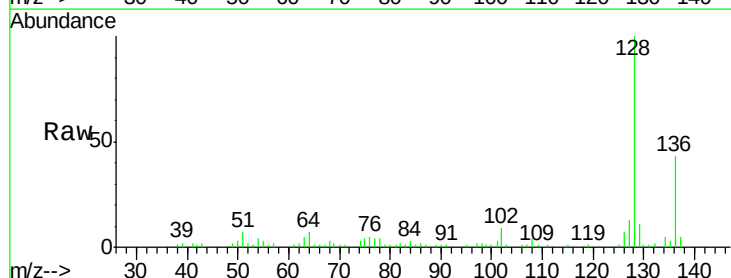
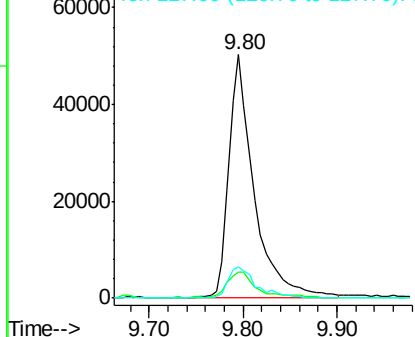
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

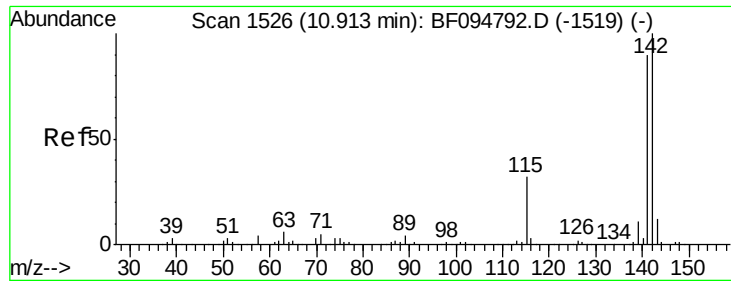


#31
 Naphthalene
 Concen: 4.61 ng
 RT: 9.80 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	12.8	10.8	16.2

Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





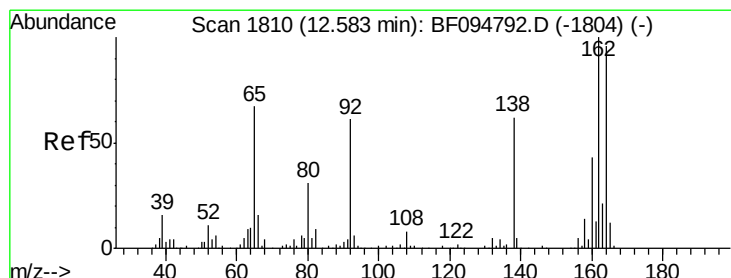
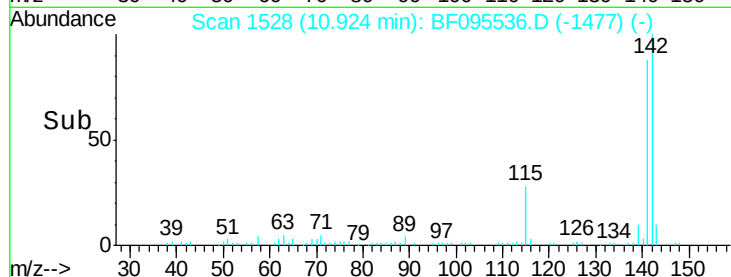
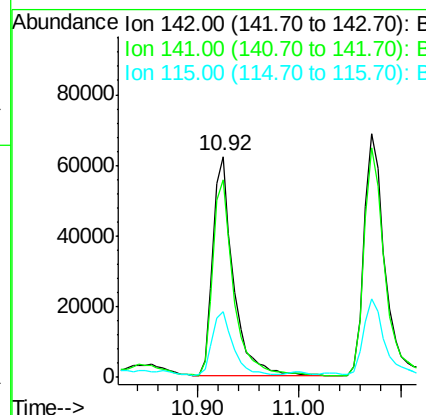
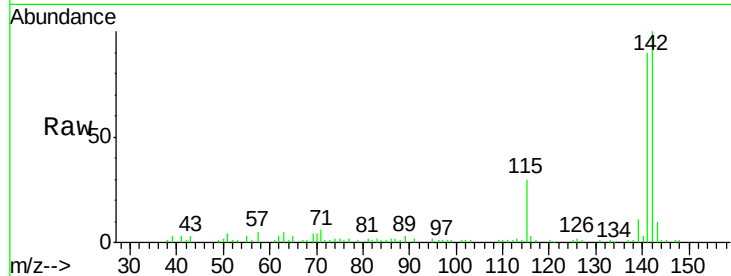
#37
2-Methylnaphthalene
Concen: 6.55 ng
RT: 10.92 min Scan# 1528
Delta R.T. -0.00 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.3	106.9
115	29.6	27.1	40.7

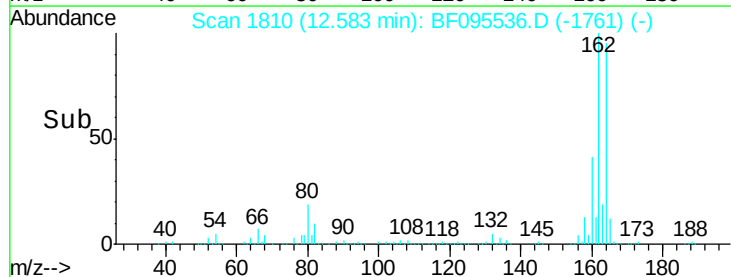
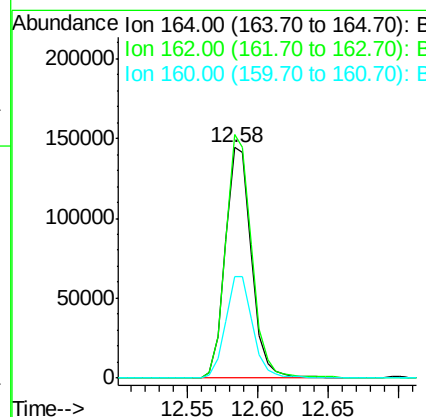
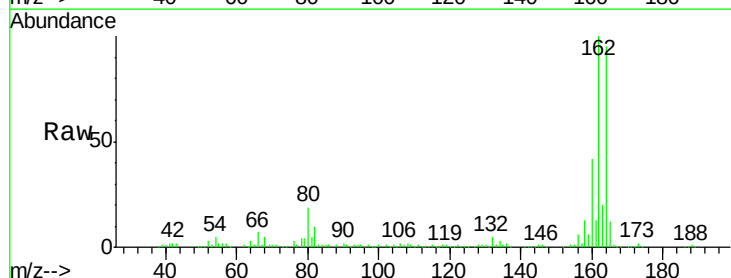
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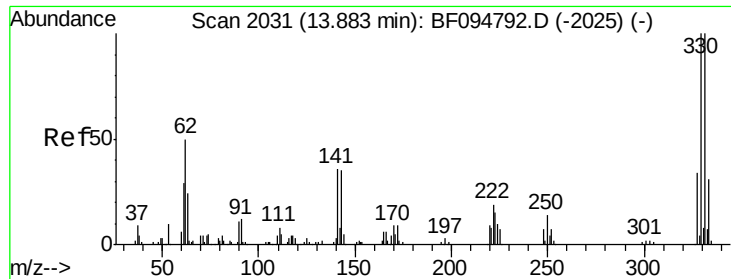
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.58 min Scan# 1810
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	82.6	123.8
160	44.0	36.2	54.2





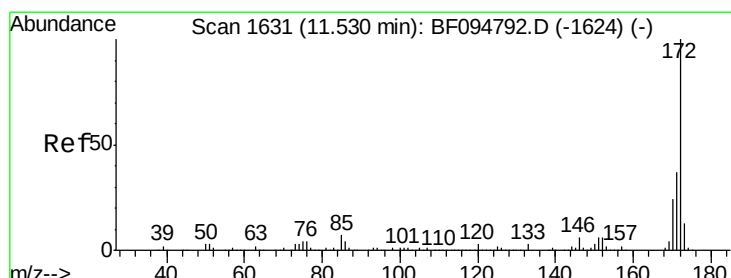
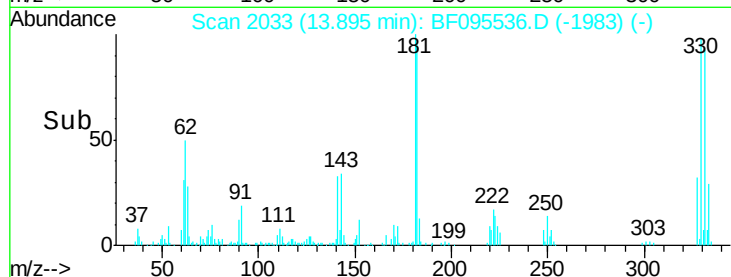
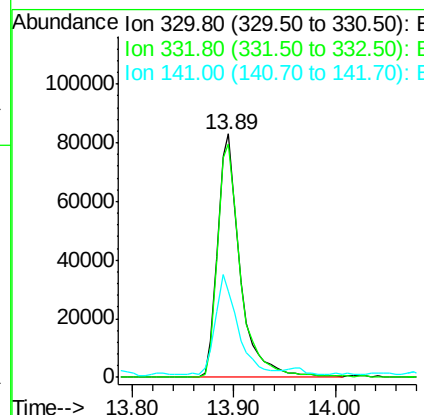
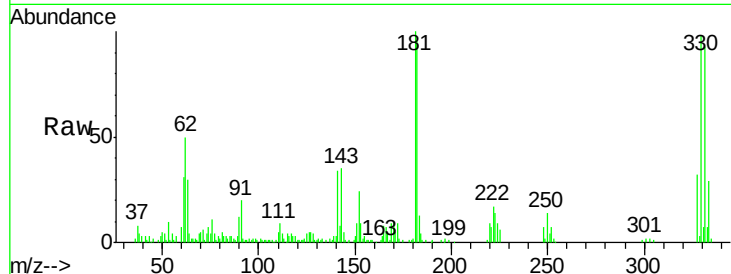
#41
 2,4,6-Tribromophenol
 Concen: 84.54 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	128553		
332	97.7	76.6	115.0	
141	41.0	31.4	47.2	

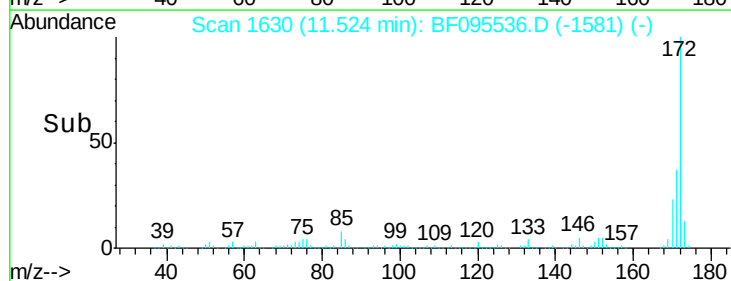
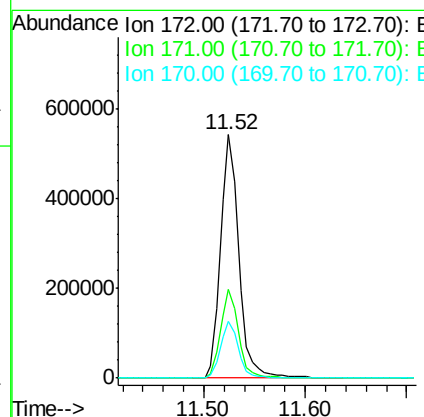
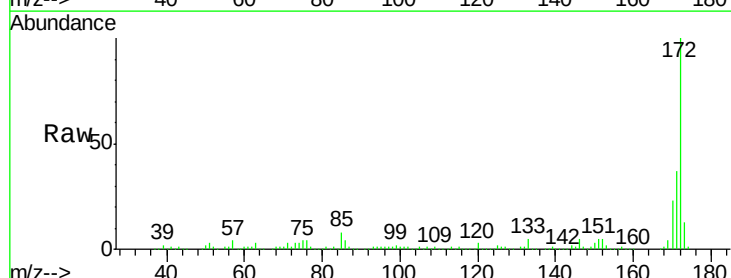
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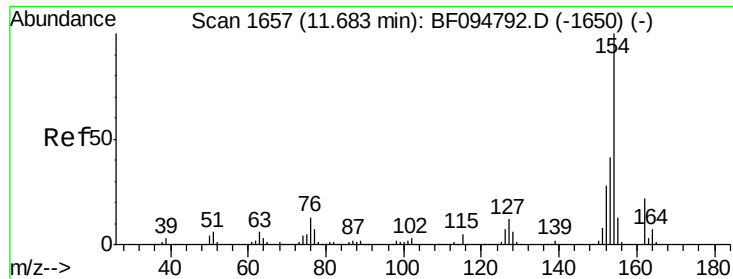
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#44
 2-Fluorobiphenyl
 Concen: 52.93 ng
 RT: 11.52 min Scan# 1630
 Delta R.T. -0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	682833		
171	36.5	29.6	44.4	
170	23.1	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 2.14 ng

RT: 11.69 min Scan# 1658

Delta R.T. -0.00 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Instrument :

BNA_F

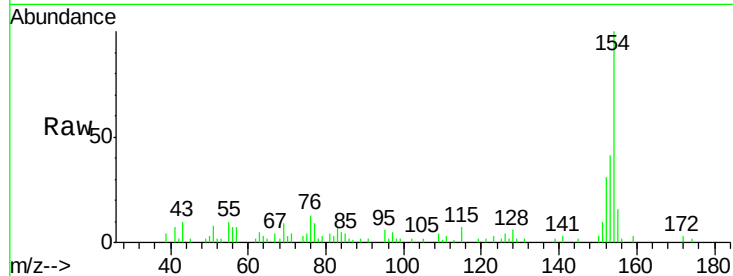
ClientSampleId :

R1-TP-2-D1012

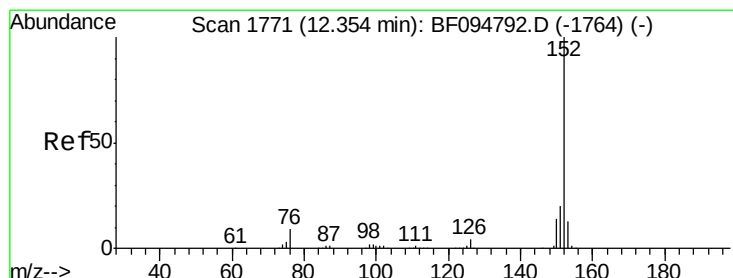
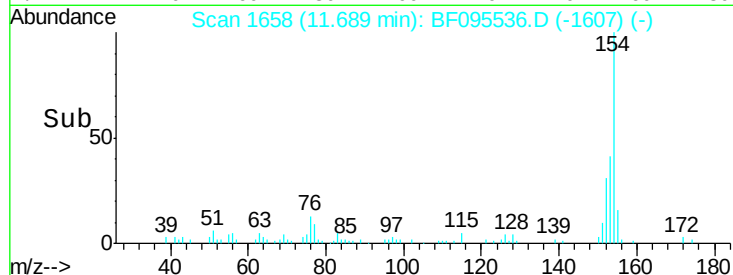
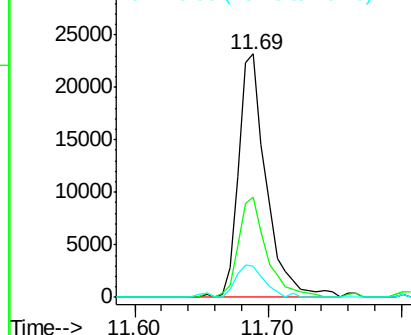
Tgt Ion:	154	Resp:	33380
Ion Ratio	Lower	Upper	
154	100		
153	41.1	21.2	61.2
76	12.6	0.0	29.9

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 5.44 ng

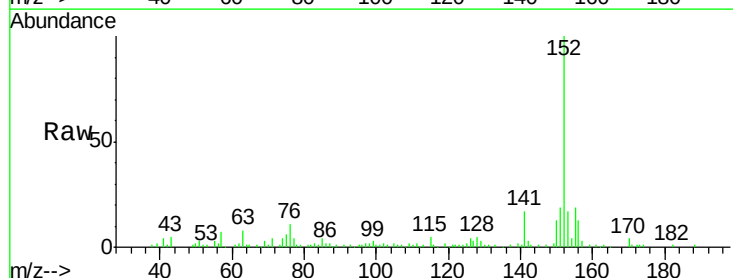
RT: 12.36 min Scan# 1772

Delta R.T. -0.01 min

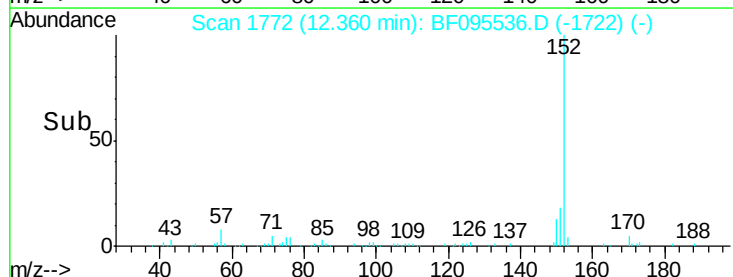
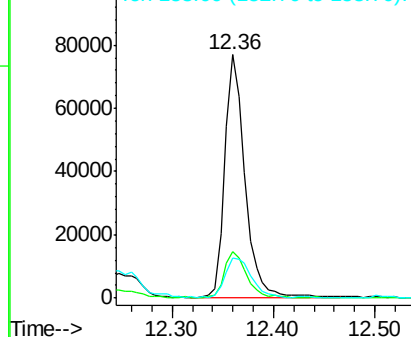
Lab File: BF095536.D

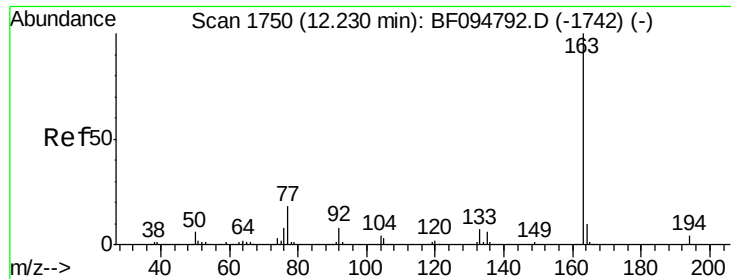
Acq: 30 May 2017 15:35

Tgt Ion:	152	Resp:	107601
Ion Ratio	Lower	Upper	
152	100		
151	19.1	16.8	25.2
153	16.7	10.8	16.2#



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





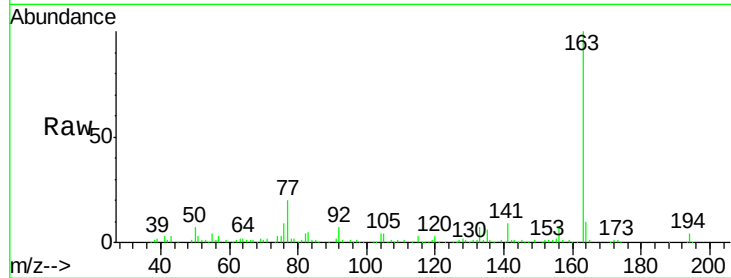
#49
Dimethylphthalate
Concen: 9.71 ng
RT: 12.22 min Scan# 1749
Delta R.T. -0.02 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	147962		
194	3.8	2.6	4.0	
164	10.4	8.4	12.6	

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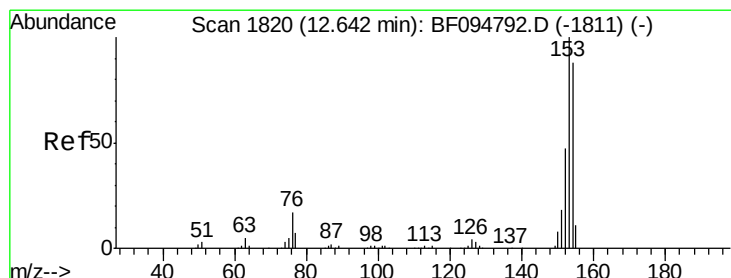
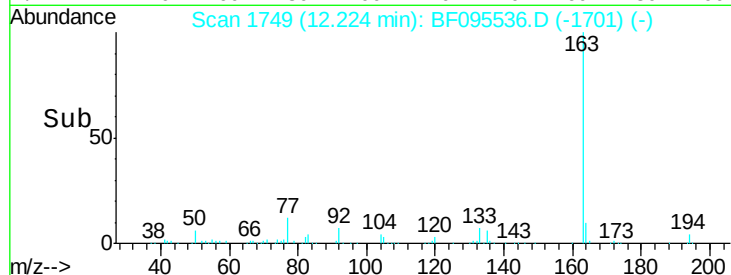
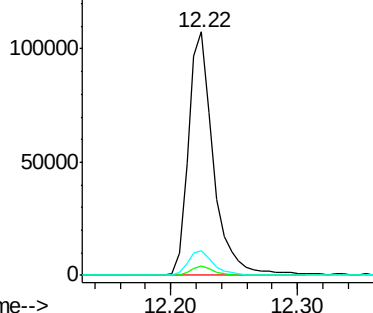


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 13.07 ng
RT: 12.64 min Scan# 1819
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

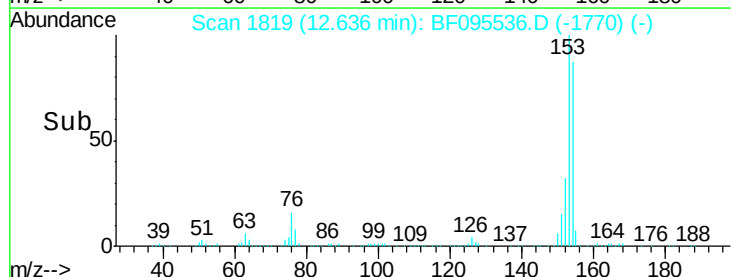
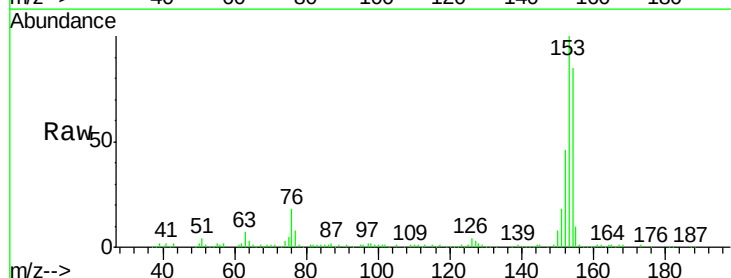
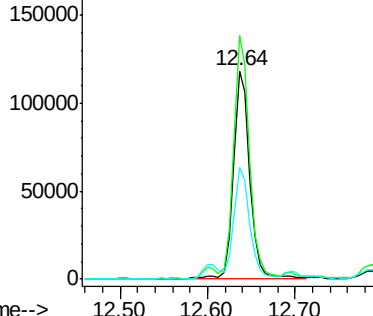
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	154397		
153	117.0	90.5	135.7	
152	54.0	43.6	65.4	

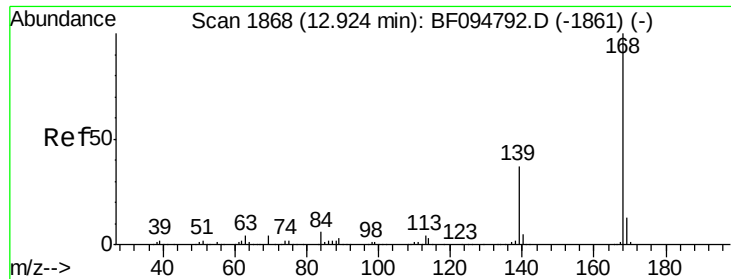
Abundance

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





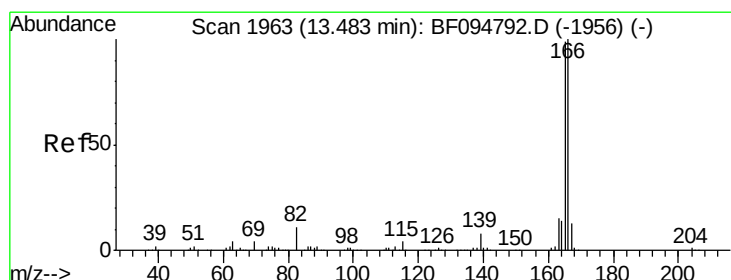
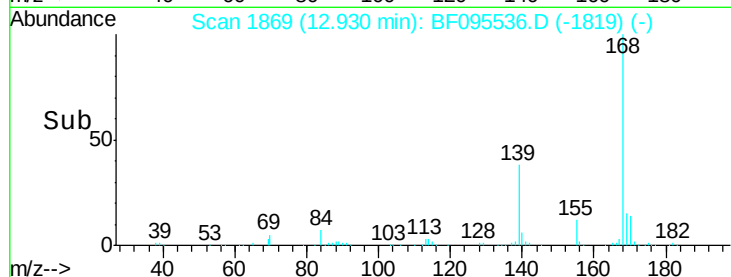
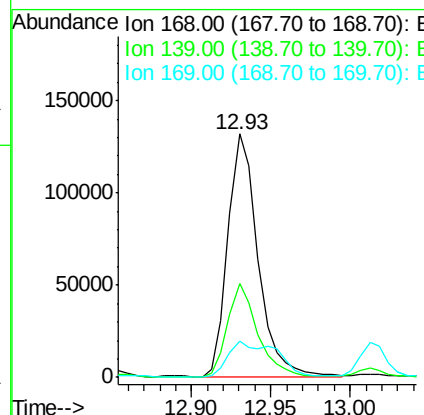
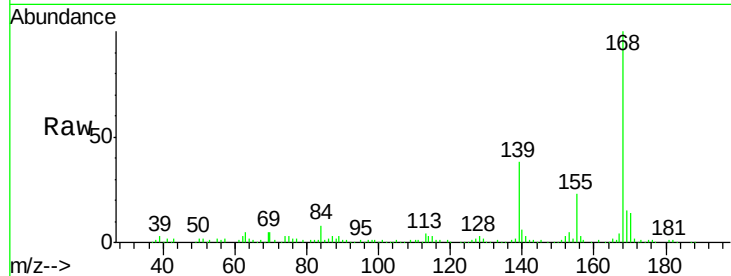
#54
Dibenzenofuran
Concen: 10.64 ng
RT: 12.93 min Scan# 1869
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	173839		
139	38.4	30.6	45.8	
169	14.7	10.8	16.2	

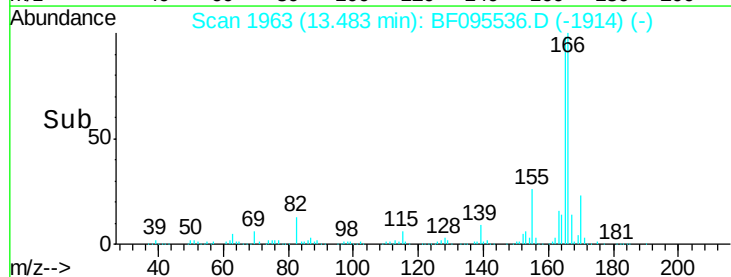
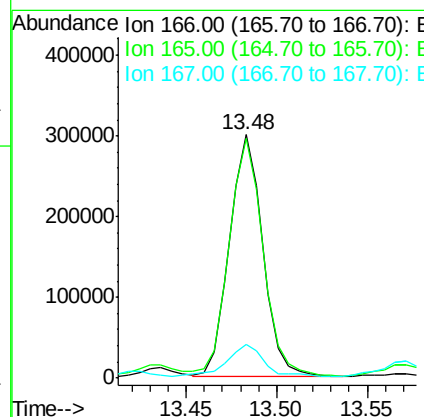
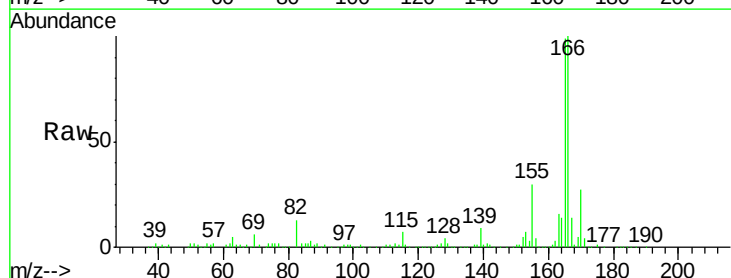
Manual Integrations
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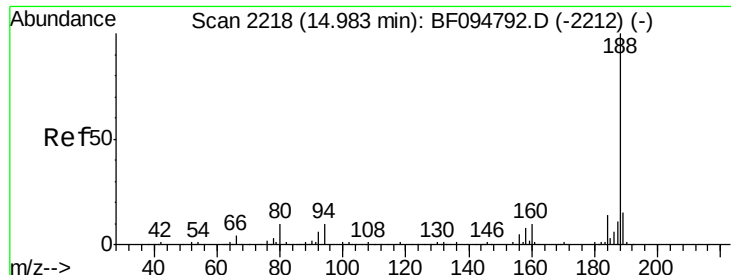
mohammad
5/31/2017 5:02:26 PM



#57
Fluorene
Concen: 26.95 ng
RT: 13.48 min Scan# 1963
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	382915		
165	98.6	78.8	118.2	
167	14.0	10.6	16.0	





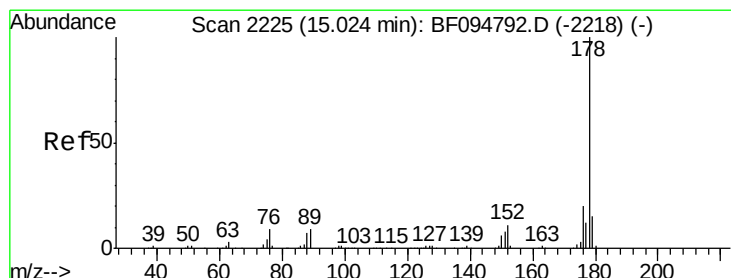
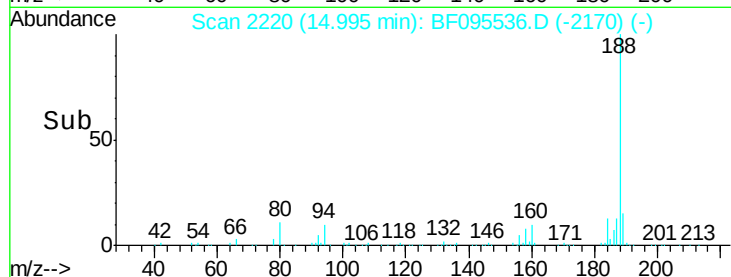
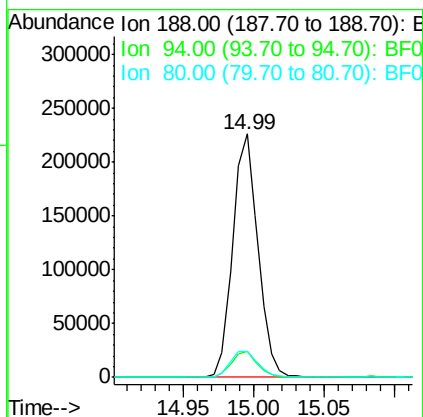
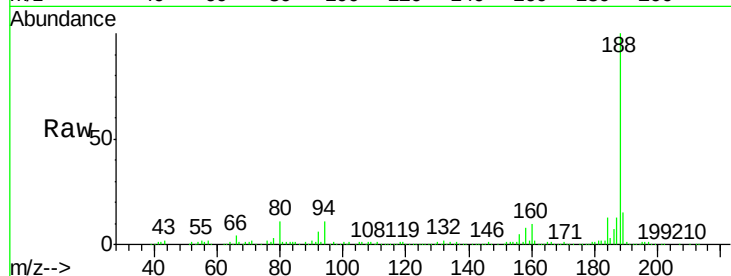
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.99 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	282226		
94	10.6		9.4	14.2
80	10.8		10.2	15.2

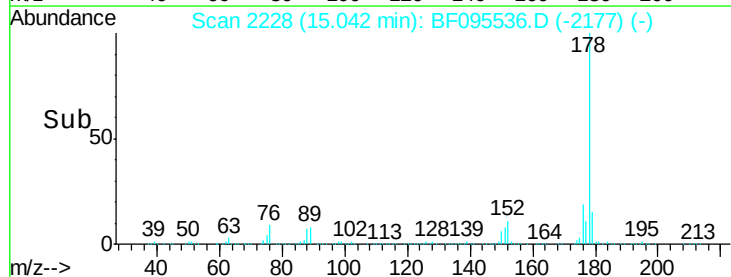
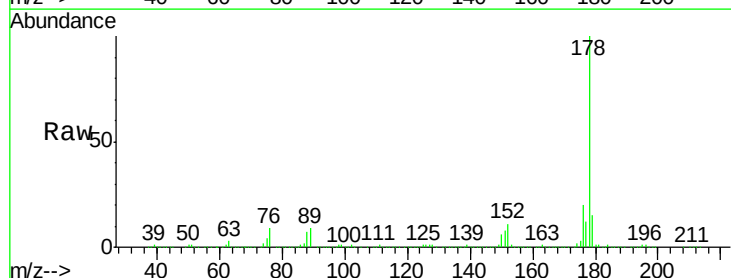
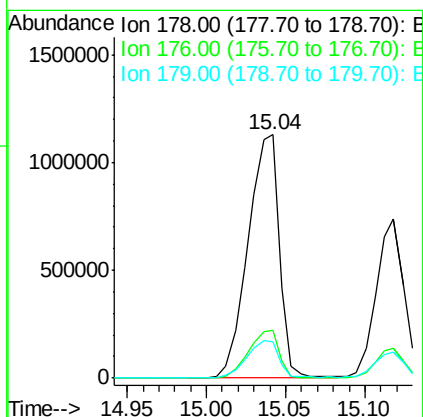
Manual Integrations
APPROVED

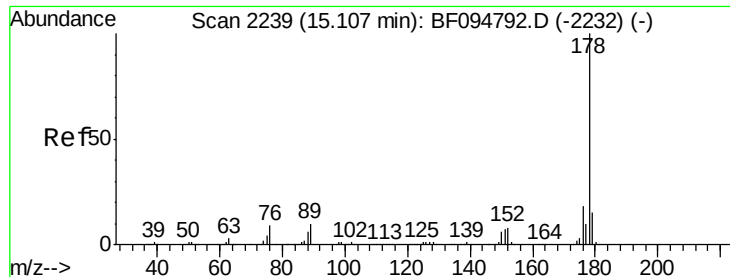
mohammad
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#70
Phenanthrene
Concen: 95.64 ng
RT: 15.04 min Scan# 2228
Delta R.T. -0.00 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1550915		
176	19.5		16.2	24.4
179	15.1		12.6	19.0





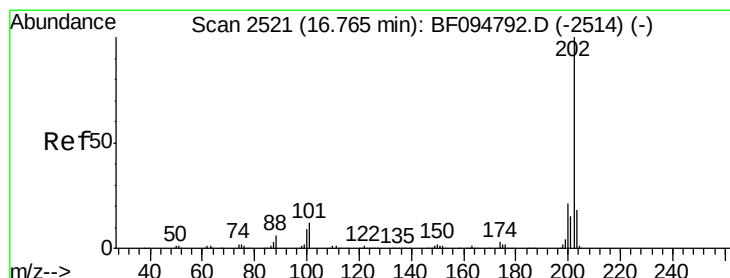
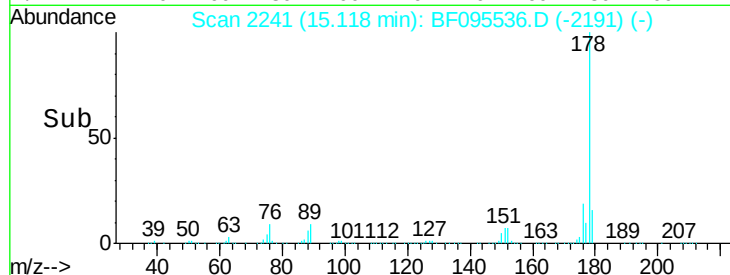
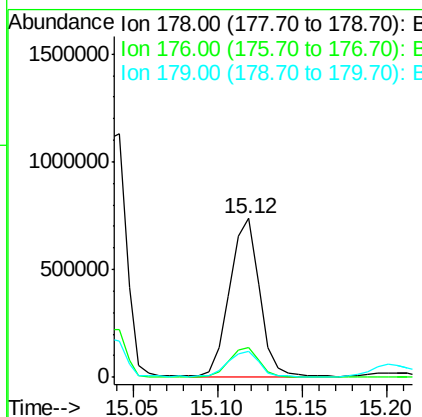
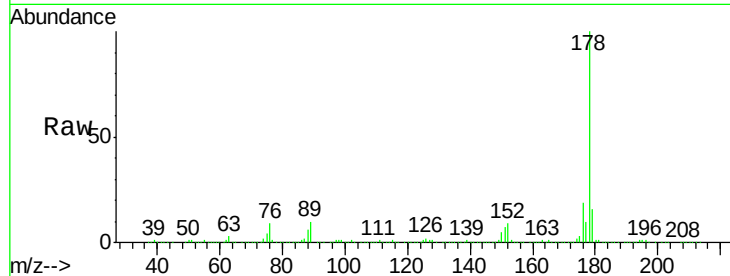
#71
 Anthracene
 Concen: 54.56 ng
 RT: 15.12 min Scan# 2241
 Delta R.T. -0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	903765		
176	18.8	15.8	23.8	
179	16.1	12.7	19.1	

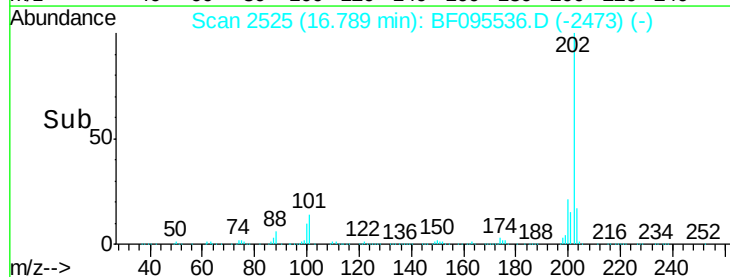
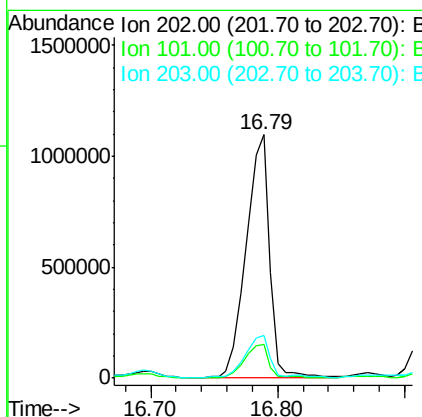
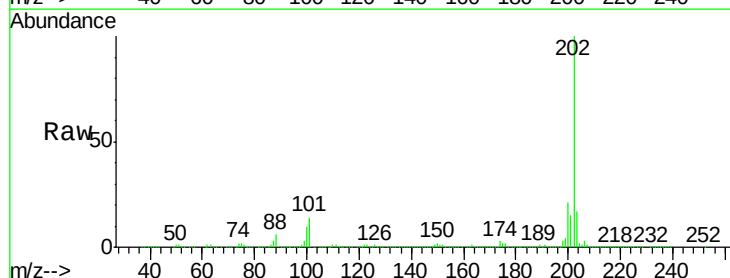
Manual Integrations
 APPROVED

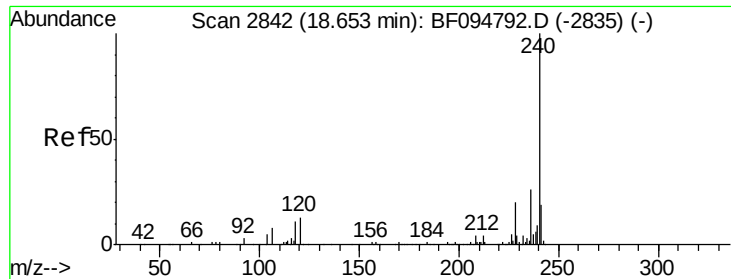
mohammad
 5/31/2017 5:02:26 PM



#74
 Fluoranthene
 Concen: 84.96 ng
 RT: 16.79 min Scan# 2525
 Delta R.T. 0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1413213		
101	14.0	0.0	33.2	
203	17.5	0.0	38.1	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.00 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Instrument :

BNA_F

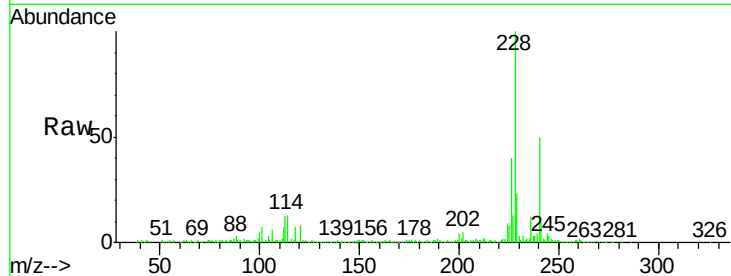
ClientSampleId :

R1-TP-2-D1012

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.9	5.8	8.8#
236	24.6	20.5	30.7

Manual Integrations
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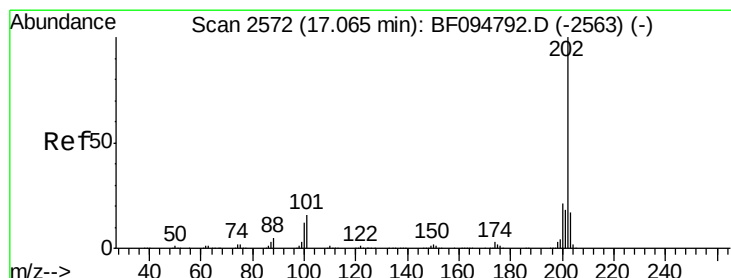
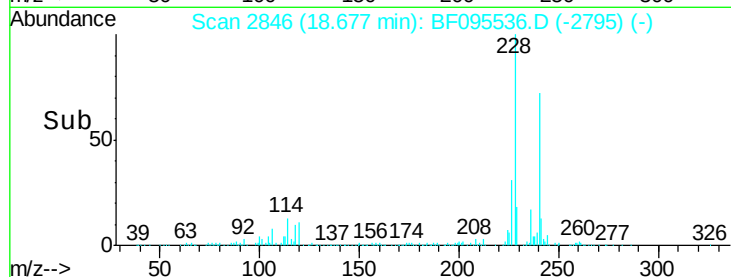
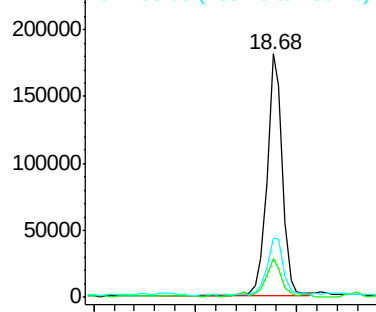
mohammad
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 84.40 ng

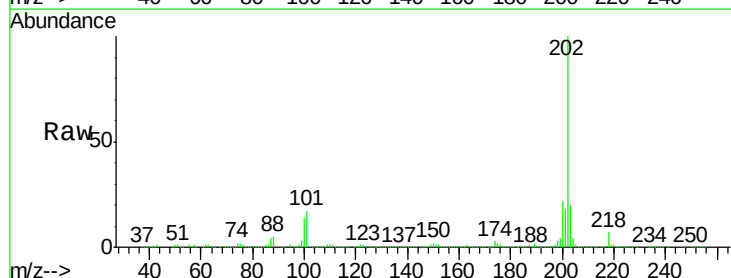
RT: 17.09 min Scan# 2576

Delta R.T. -0.00 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

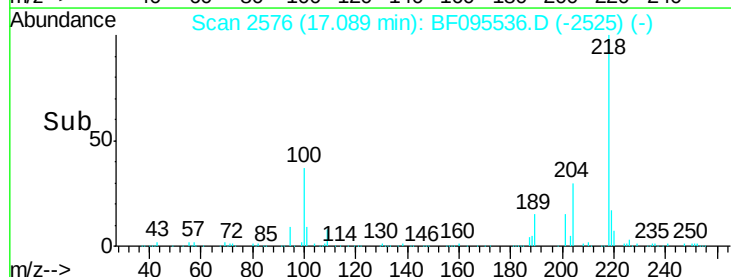
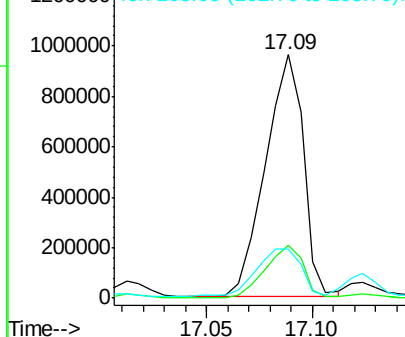
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	20.2	14.4	21.6

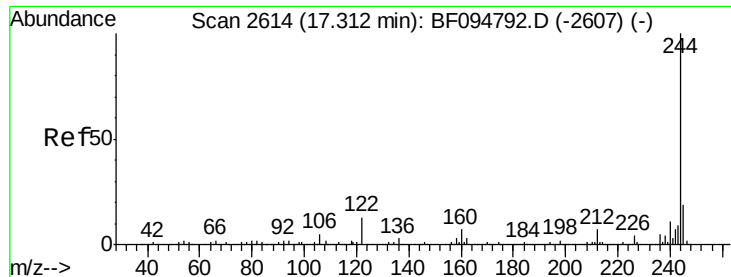


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





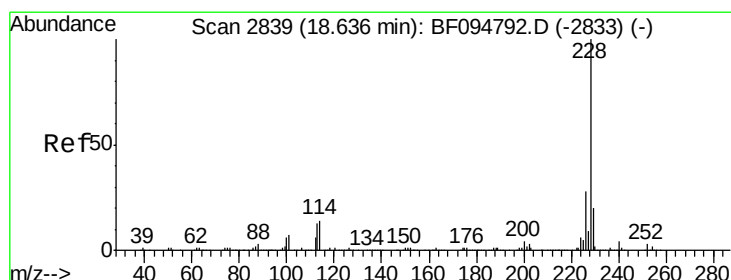
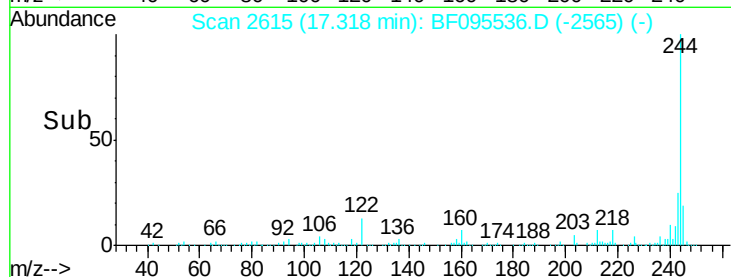
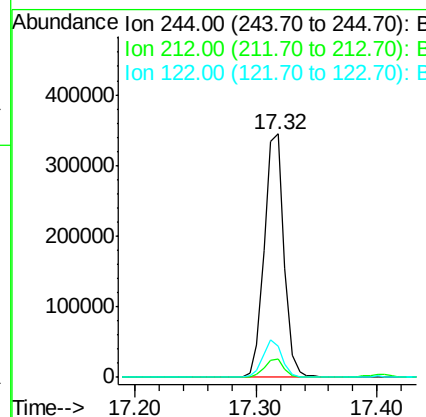
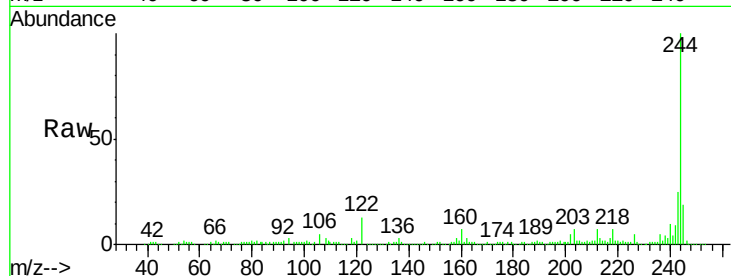
#78
 Terphenyl-d14
 Concen: 45.34 ng
 RT: 17.32 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.3	6.0	9.0
122	12.8	10.3	15.5

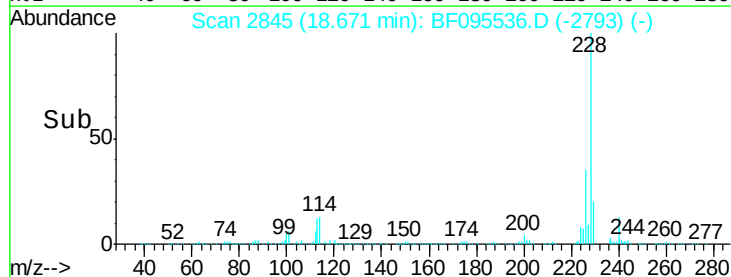
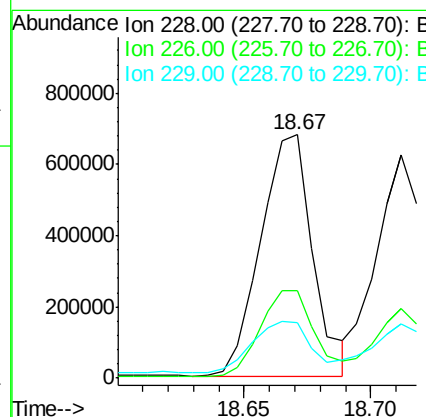
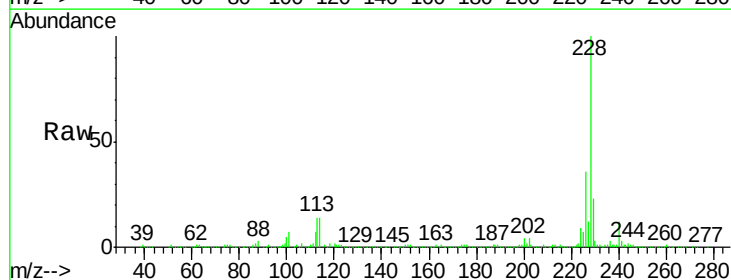
Manual Integrations
 APPROVED

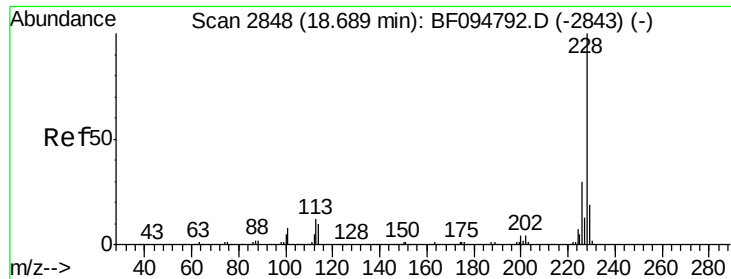
mohammad
 5/31/2017 5:02:26 PM



#80
 Benzo(a)anthracene
 Concen: 87.52 ng
 RT: 18.67 min Scan# 2845
 Delta R.T. 0.01 min
 Lab File: BF095536.D
 Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	35.7	22.6	33.8#
229	22.9	16.3	24.5





#82

Chrysene

Concen: 71.78 ng m

RT: 18.71 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Instrument :

BNA_F

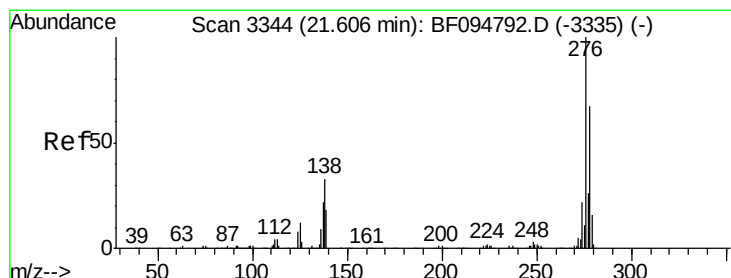
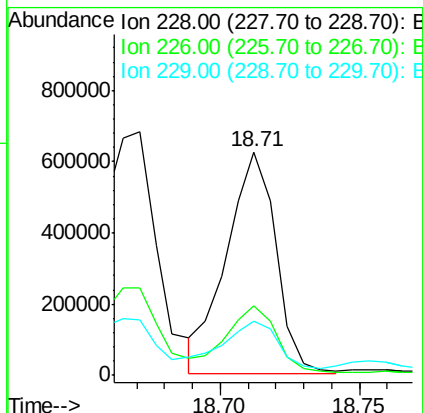
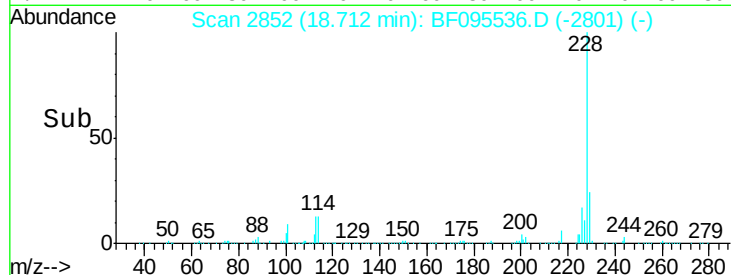
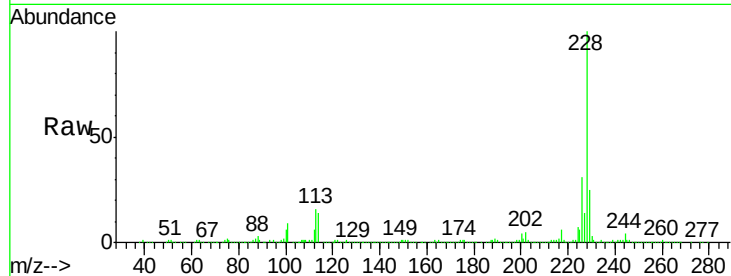
ClientSampleId :

R1-TP-2-D1012

Tgt Ion:	228	Resp:	773373
Ion Ratio	Lower	Upper	
228	100		
226	31.4	24.9	37.3
229	24.5	15.8	23.6#

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 27.67 ng

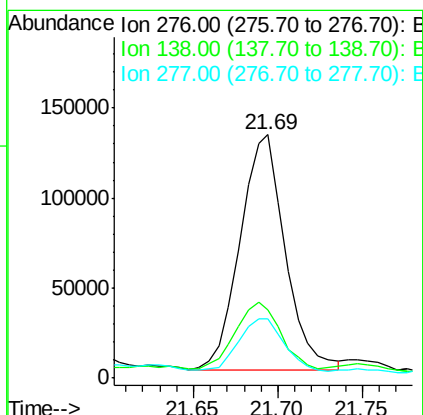
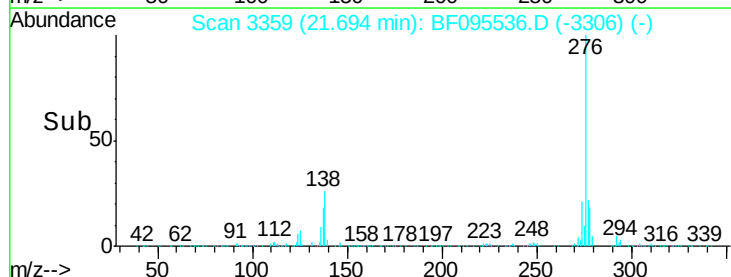
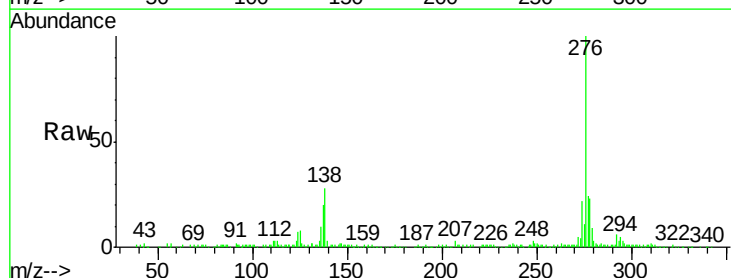
RT: 21.69 min Scan# 3359

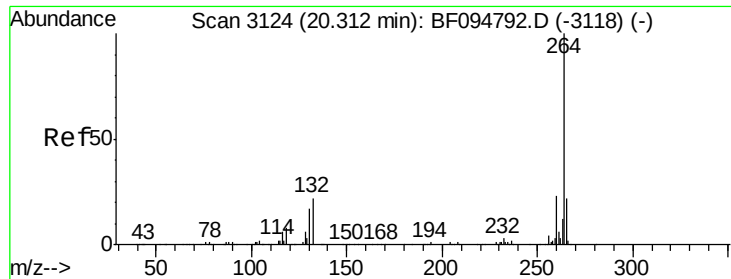
Delta R.T. 0.01 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Tgt Ion:	276	Resp:	242137
Ion Ratio	Lower	Upper	
276	100		
138	28.1	27.8	41.6
277	21.9	20.2	30.4





#86

Perylene-d12

Concen: 20.00 ng

RT: 20.36 min Scan# 3132

Delta R.T. 0.01 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Instrument :

BNA_F

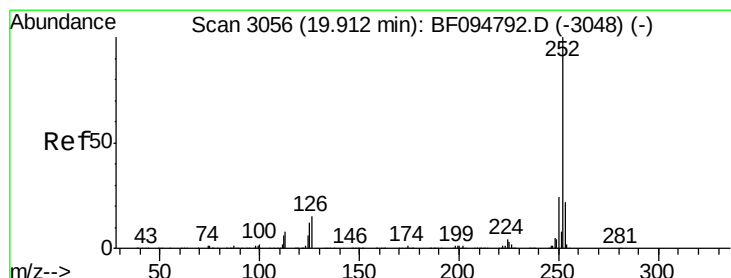
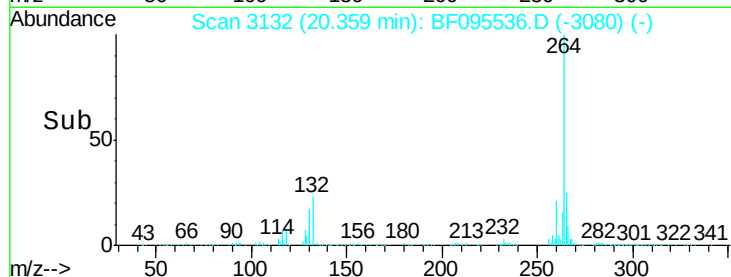
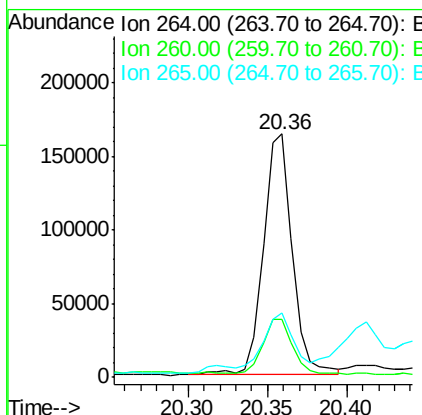
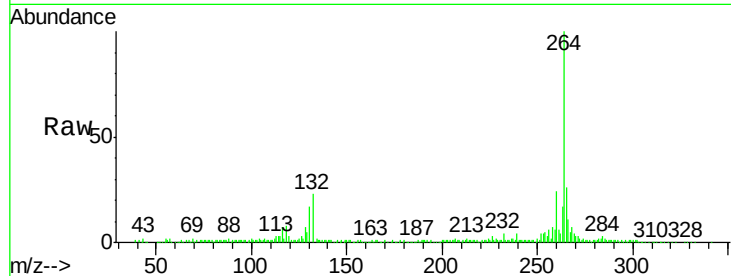
ClientSampleId :

R1-TP-2-D1012

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	26.2	17.2	25.8

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 61.16 ng m

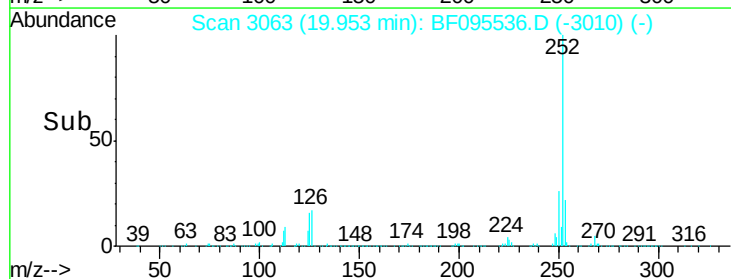
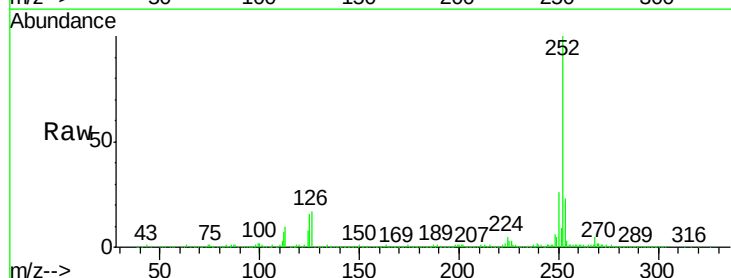
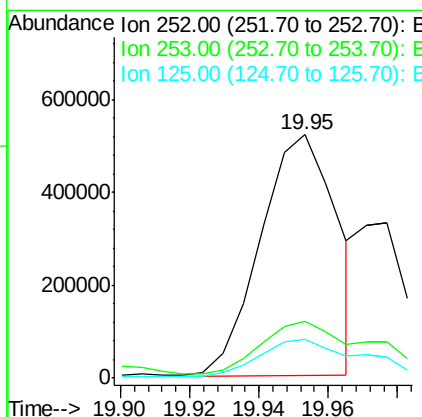
RT: 19.95 min Scan# 3063

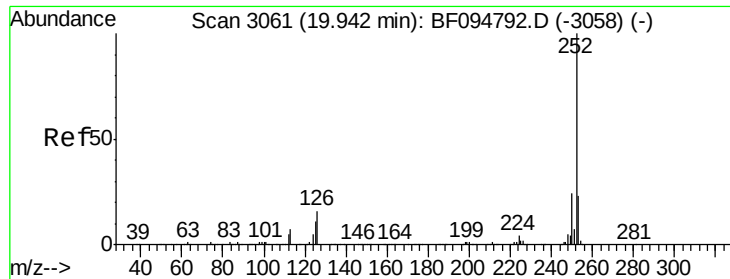
Delta R.T. 0.01 min

Lab File: BF095536.D

Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	15.9	9.8	14.8





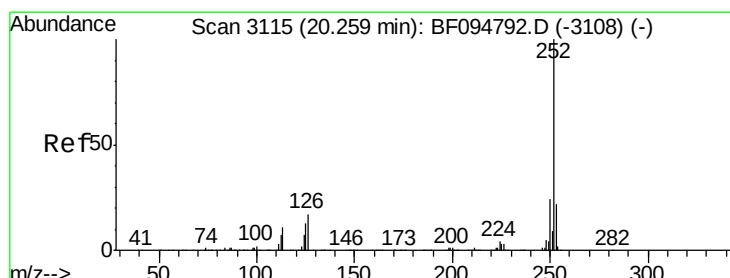
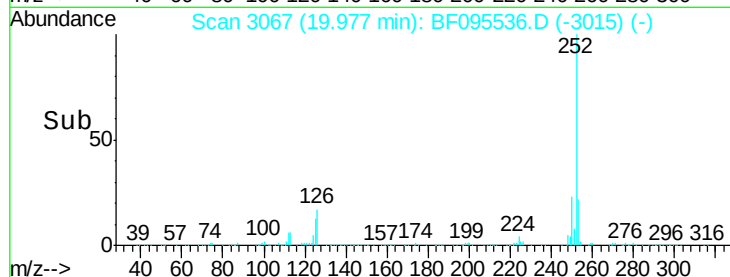
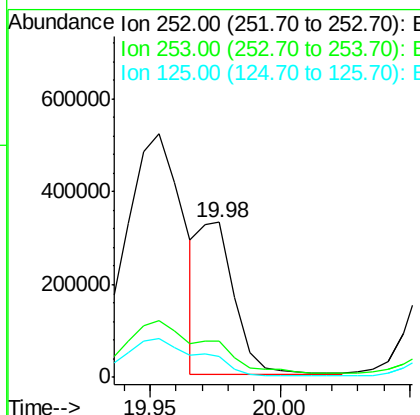
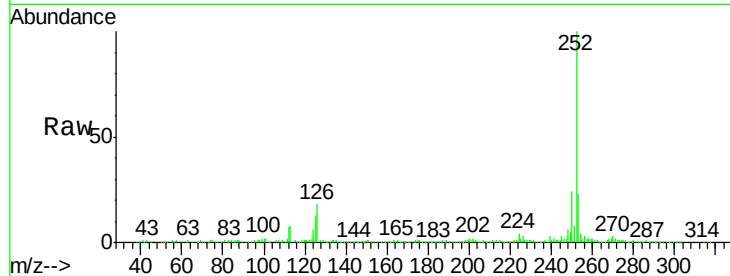
#88
Benzo(k)fluoranthene
Concen: 25.65 ng m
RT: 19.98 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	13.1	13.1	19.7

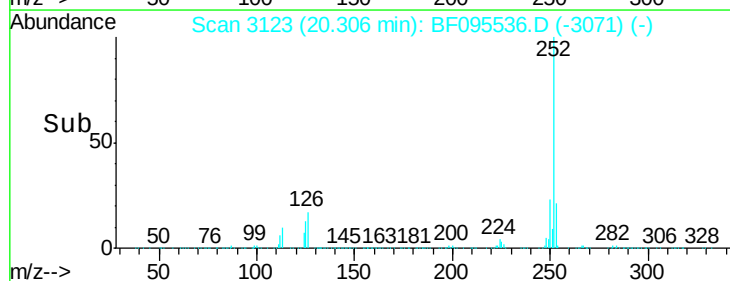
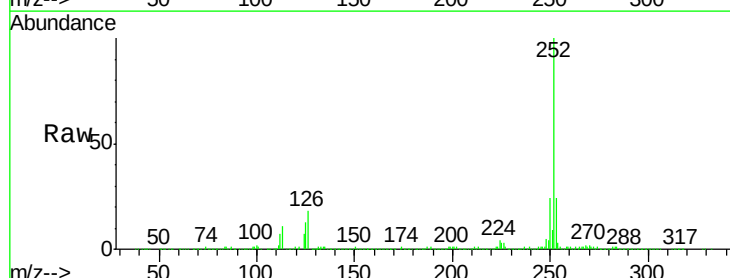
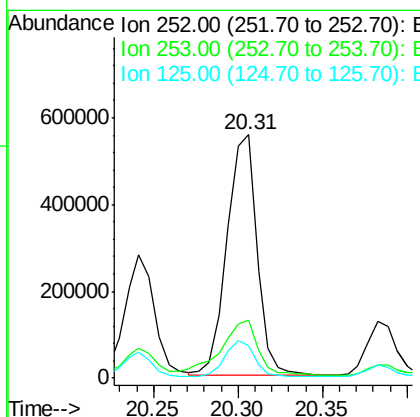
Manual Integrations
APPROVED

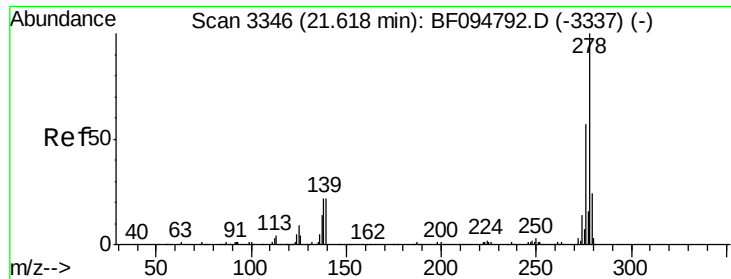
mohammad
5/31/2017 5:02:26 PM



#89
Benzo(a)pyrene
Concen: 57.40 ng
RT: 20.31 min Scan# 3123
Delta R.T. 0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	13.3	11.0	16.4





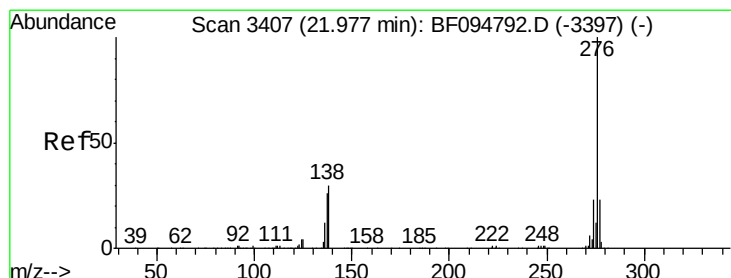
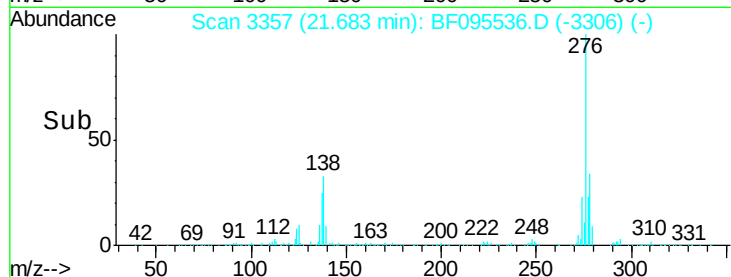
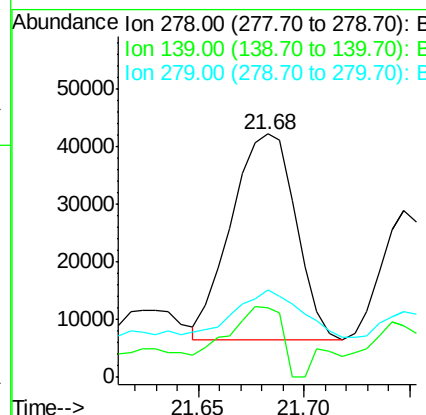
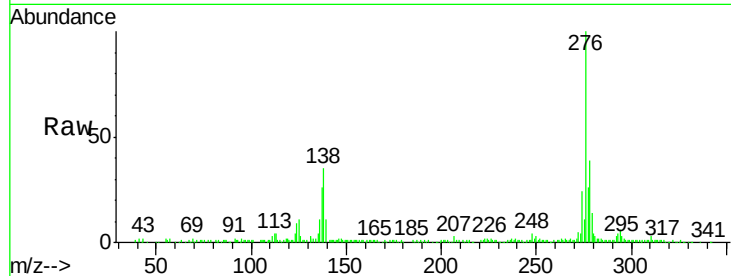
#90
Dibenzo(a,h)anthracene
Concen: 7.66 ng
RT: 21.68 min Scan# 3357
Delta R.T. -0.00 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.8	16.6	24.8#
279	36.0	19.3	28.9#

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:26 PM



#91
Benzo(g,h,i)perylene
Concen: 19.16 ng
RT: 22.08 min Scan# 3424
Delta R.T. 0.01 min
Lab File: BF095536.D
Acq: 30 May 2017 15:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.6	28.0
138	31.2	25.4	38.0

