

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
 Data File : BF095559.D
 Acq On : 31 May 2017 9:35
 Operator : SJ/MA
 Sample : I3281-05DL 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012DL

Manual Integrations
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Quant Time: May 31 14:37:13 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	90794	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	357541	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	145004	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	220242	20.00	ng	0.00
75) Chrysene-d12	18.68	240	203892	20.00	ng	0.00
86) Perylene-d12	20.35	264	147456	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	282065	51.79	ng	0.02
7) Phenol-d6	7.31	99	336485	51.50	ng	0.02
23) Nitrobenzene-d5	8.65	82	183635	32.39	ng	0.00
41) 2,4,6-Tribromophenol	13.90	330	49733	41.88	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	308883	30.66	ng	0.00
78) Terphenyl-d14	17.31	244	223718	24.17	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.80	128	40178	2.24	ng	97
37) 2-Methylnaphthalene	10.94	142	38386	3.25	ng	96
48) Acenaphthylene	12.37	152	51242	3.32	ng	# 93
49) Dimethylphthalate	12.23	163	61880	5.20	ng	100
51) Acenaphthene	12.64	154	62248	6.75	ng	99
54) Dibenzofuran	12.94	168	71053	5.57	ng	100
57) Fluorene	13.48	166	157646	14.21	ng	98
70) Phenanthrene	15.03	178	688188	54.38	ng	98
71) Anthracene	15.12	178	405330	31.36	ng	98
74) Fluoranthene	16.78	202	829409	63.89	ng	99
77) Pyrene	17.08	202	712161	46.70	ng	96
80) Benzo(a)anthracene	18.67	228	550464m	46.39	ng	
82) Chrysene	18.71	228	443282	38.63	ng	97
85) Indeno(1,2,3-cd)pyrene	21.69	276	74957	8.04	ng	97
87) Benzo(b)fluoranthene	19.95	252	373449m	40.99	ng	
88) Benzo(k)fluoranthene	19.97	252	104396m	11.88	ng	
89) Benzo(a)pyrene	20.30	252	270898	32.22	ng	97
90) Dibenzo(a,h)anthracene	21.69	278	24591	3.54	ng	# 69
91) Benzo(g,h,i)perylene	22.08	276	62254	9.14	ng	95

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

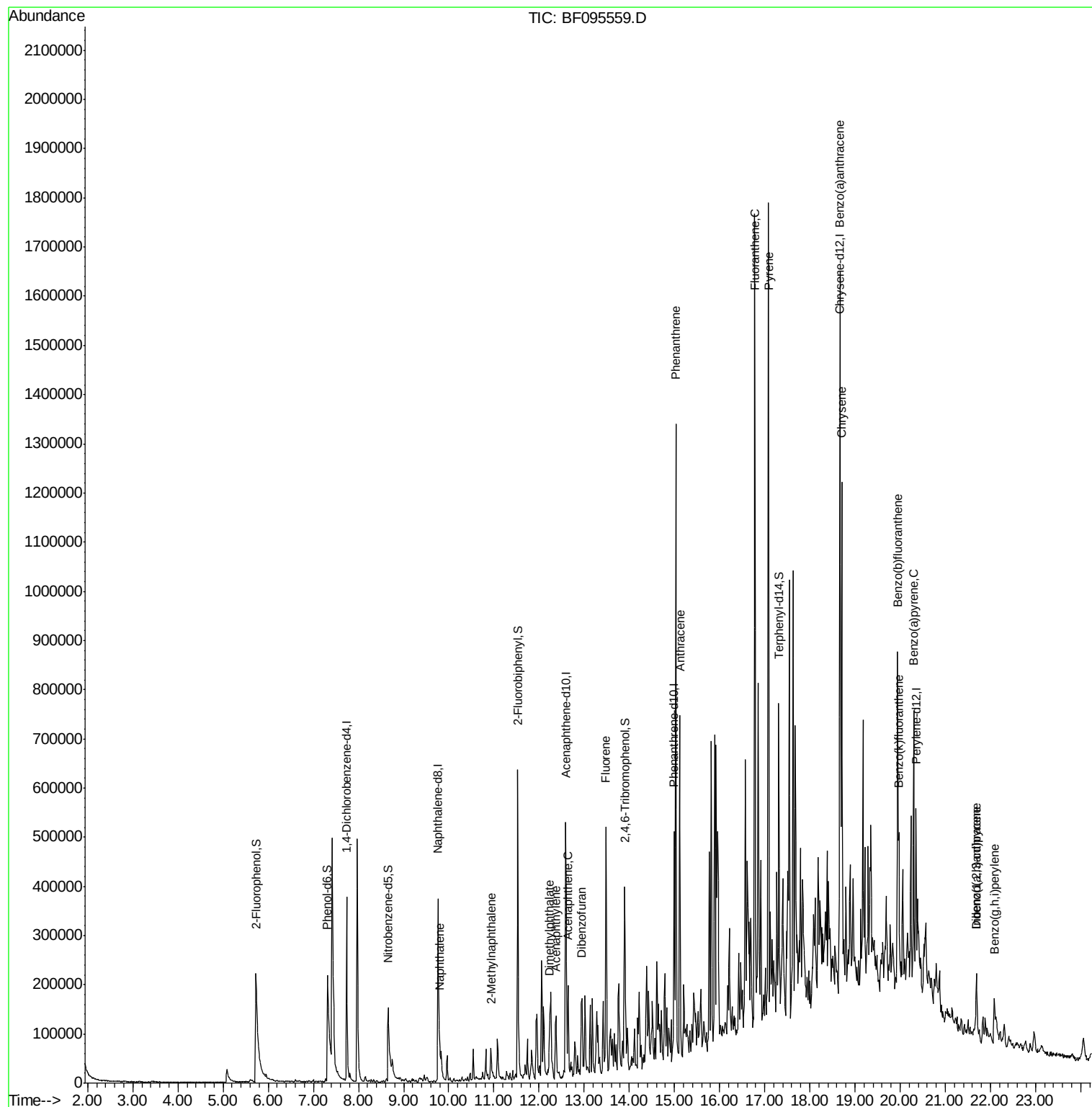
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
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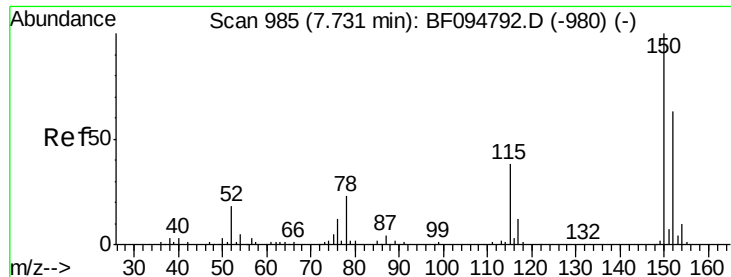
Instrument :
BNA_F
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R1-TP-2-D1012DL

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Quant Time: May 31 14:37:13 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

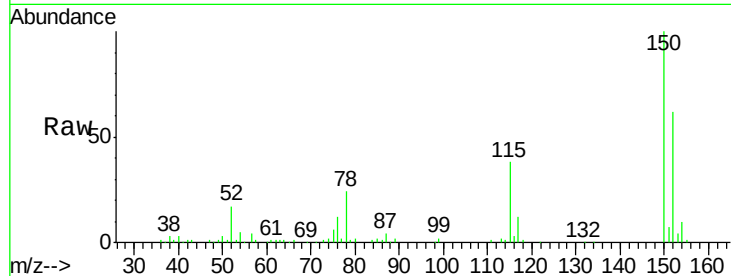
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

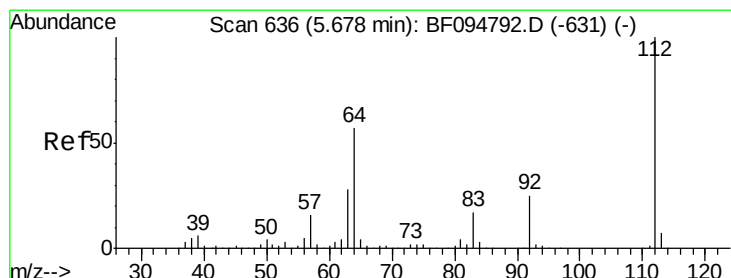
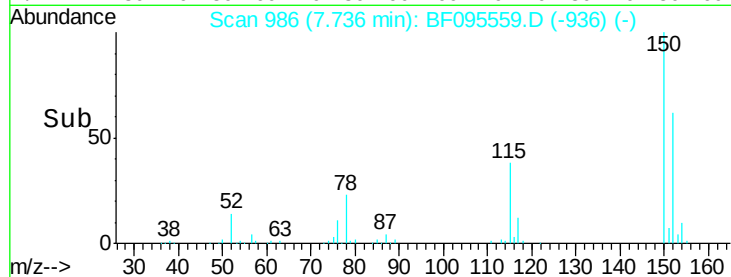
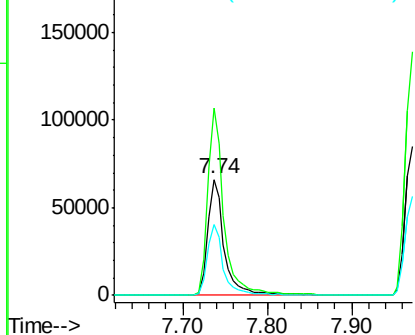
Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.7	126.2	189.2
115	60.6	52.2	78.2

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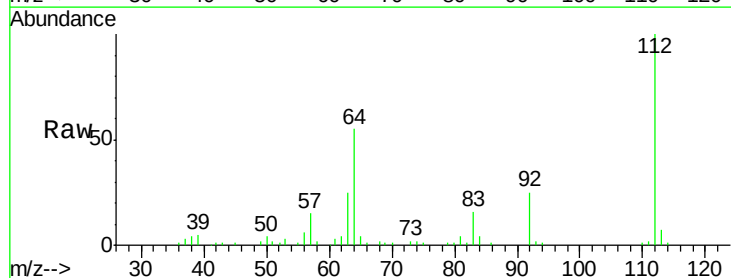
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



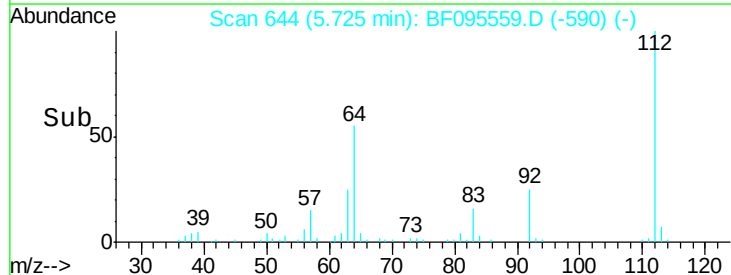
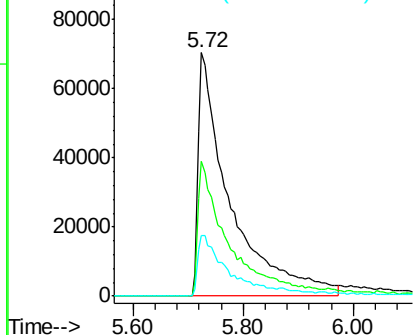
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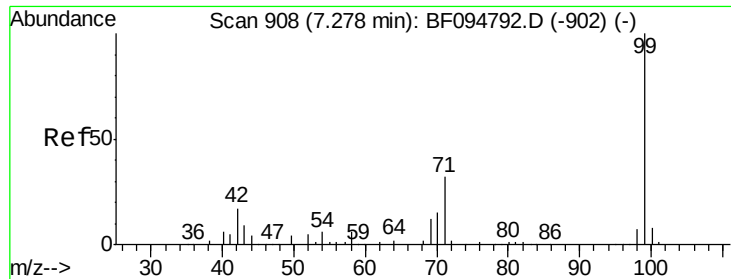
2-Fluorophenol
Concen: 51.79 ng
RT: 5.72 min Scan# 644
Delta R.T. 0.02 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	46.0	69.0
63	25.0	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 51.50 ng

RT: 7.31 min Scan# 914

Delta R.T. 0.02 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Instrument :

BNA_F

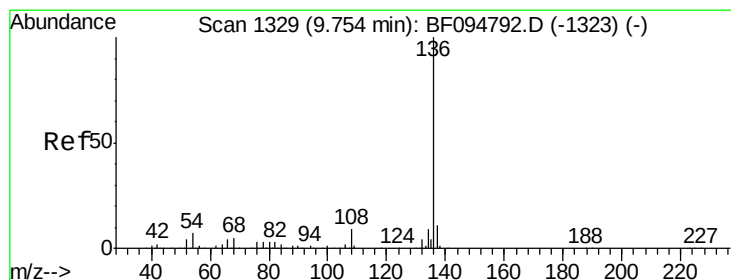
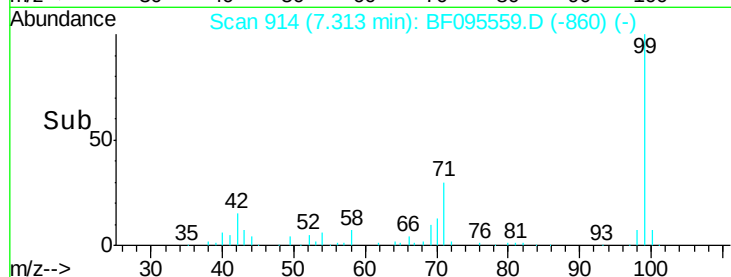
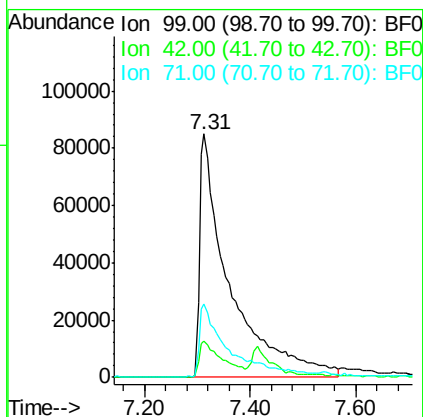
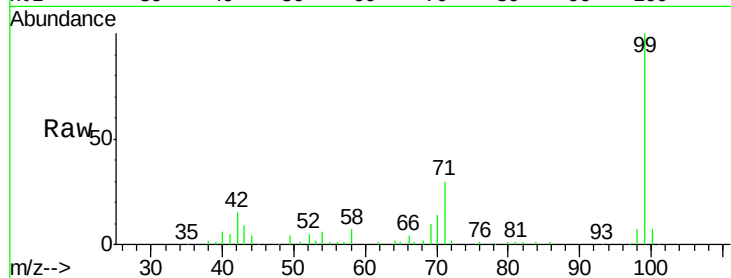
ClientSampleId :

R1-TP-2-D1012DL

Tgt Ion:	99	Resp:	336485
Ion Ratio	Lower	Upper	
99	100		
42	15.1	13.5	20.3
71	30.4	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

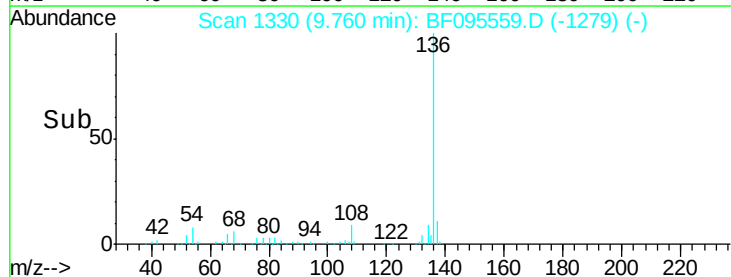
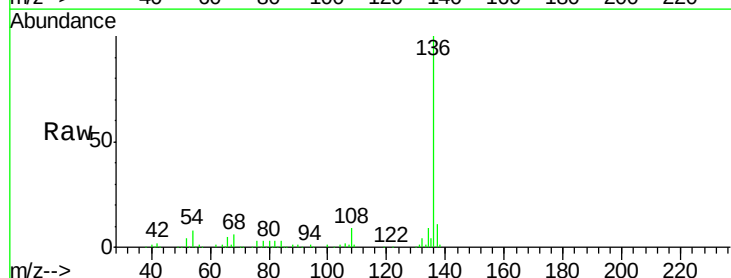
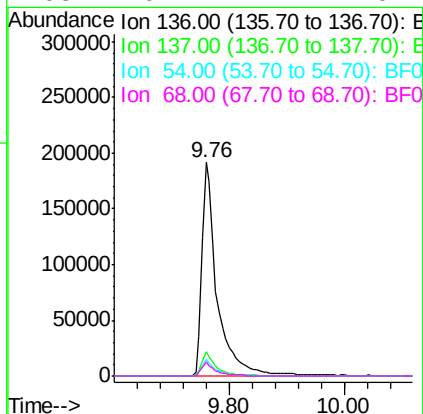
RT: 9.76 min Scan# 1330

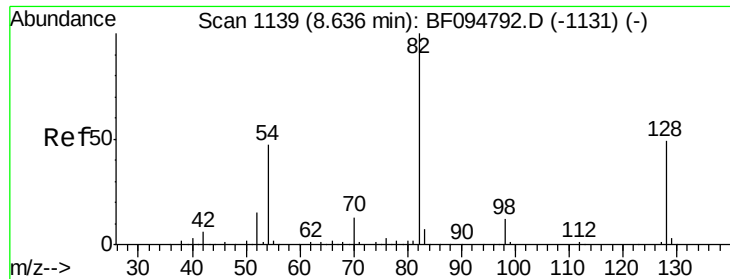
Delta R.T. 0.00 min

Lab File: BF095559.D

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Tgt Ion:	136	Resp:	357541
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.5	12.7
54	7.5	4.9	7.3#
68	6.4	4.1	6.1#





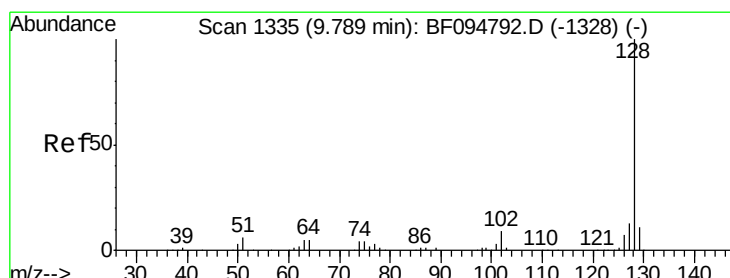
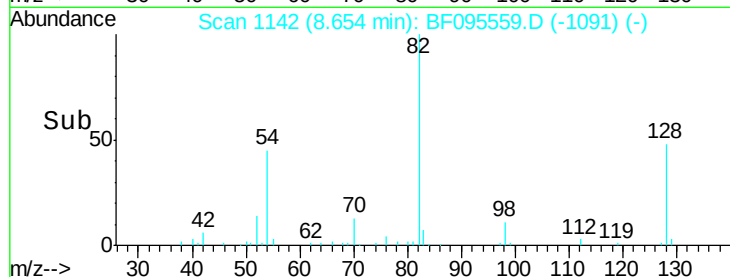
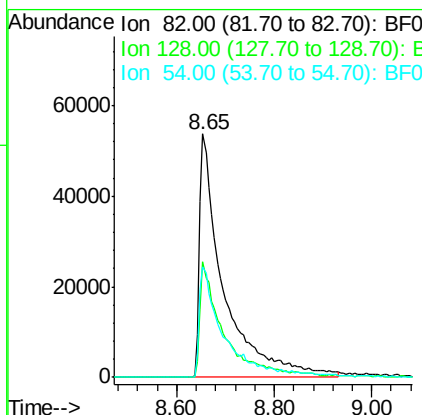
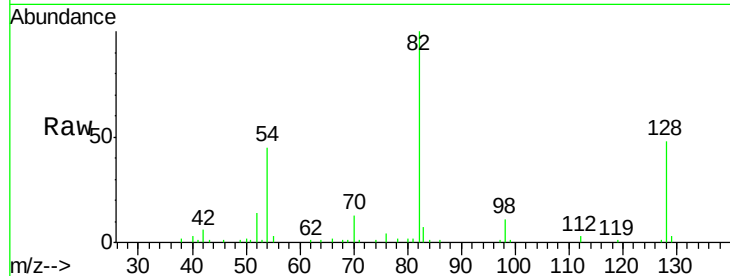
#23
 Nitrobenzene-d5
 Concen: 32.39 ng
 RT: 8.65 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: BF095559.D
 Acq: 31 May 2017 9:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012DL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	183635		
128	47.6	34.0	51.0	
54	45.4	42.2	63.2	

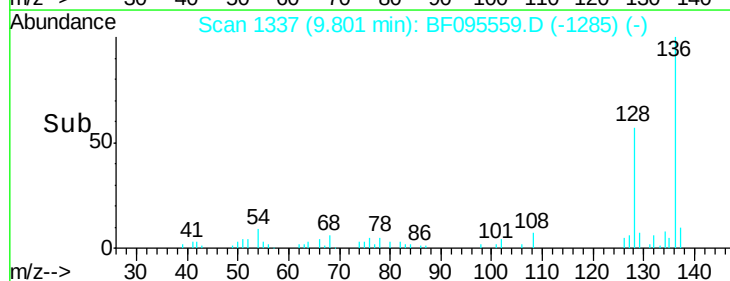
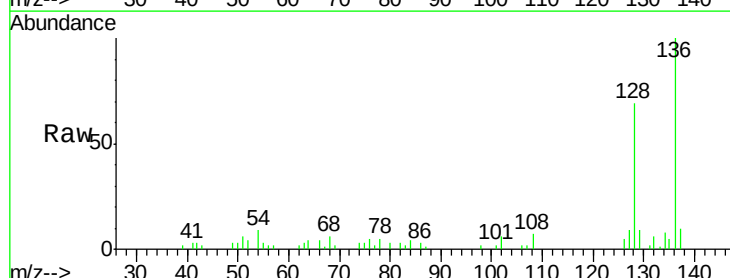
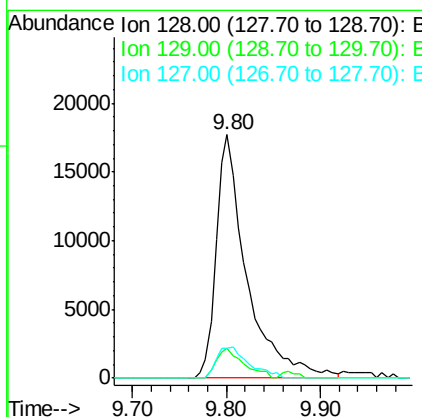
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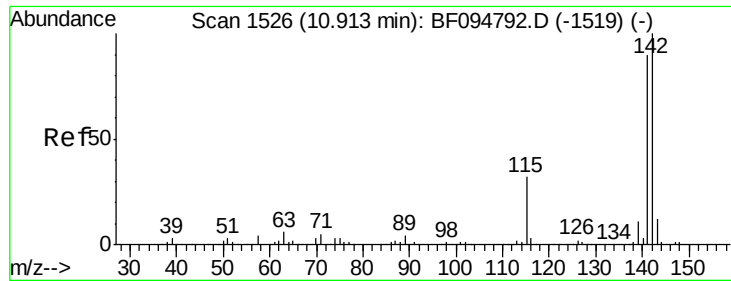
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#31
 Naphthalene
 Concen: 2.24 ng
 RT: 9.80 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: BF095559.D
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100	40178		
129	12.3	9.0	13.6	
127	12.4	10.8	16.2	





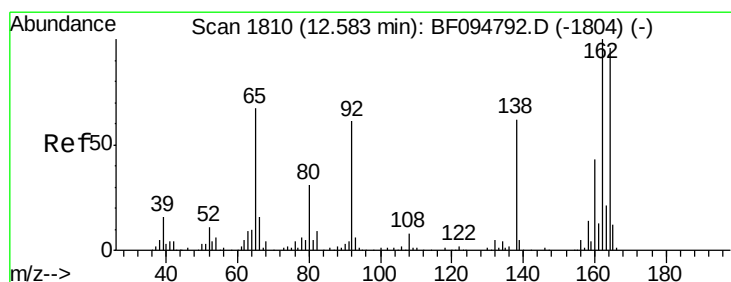
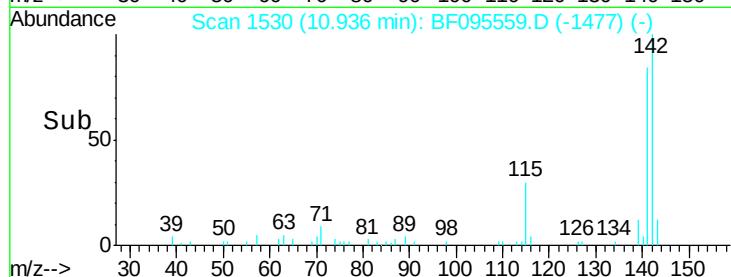
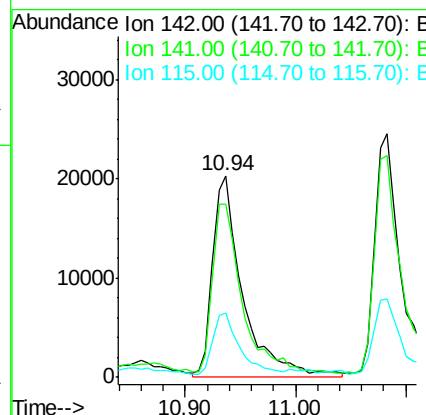
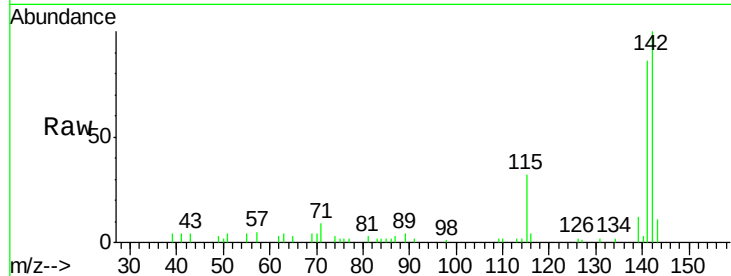
#37
2-Methylnaphthalene
Concen: 3.25 ng
RT: 10.94 min Scan# 1530
Delta R.T. 0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.7	71.3	106.9
115	31.7	27.1	40.7

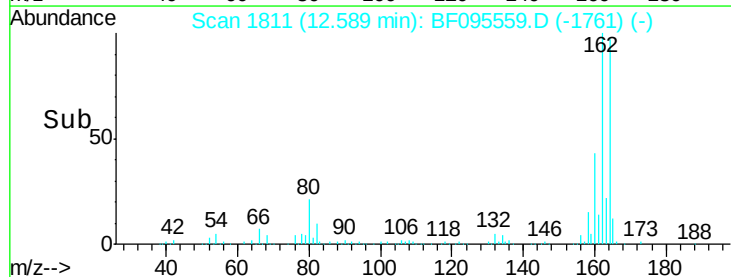
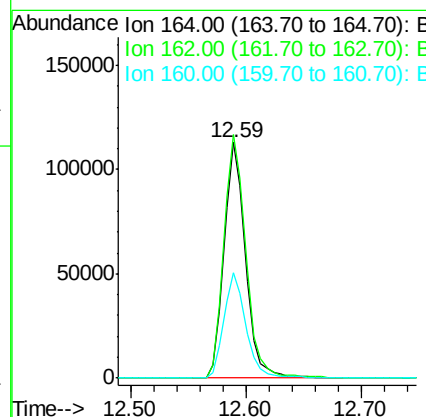
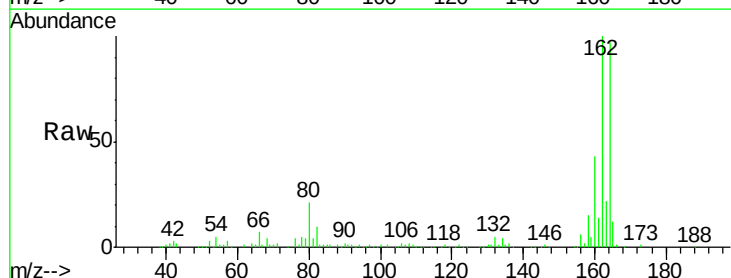
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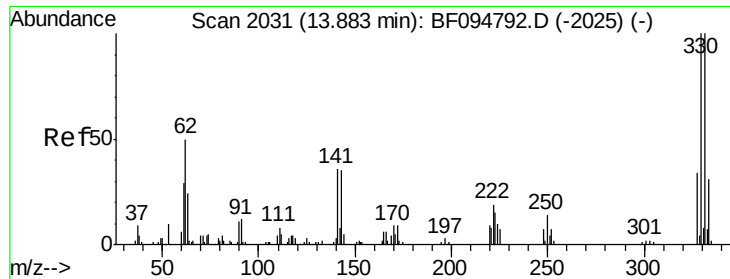
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.6	123.8
160	45.0	36.2	54.2





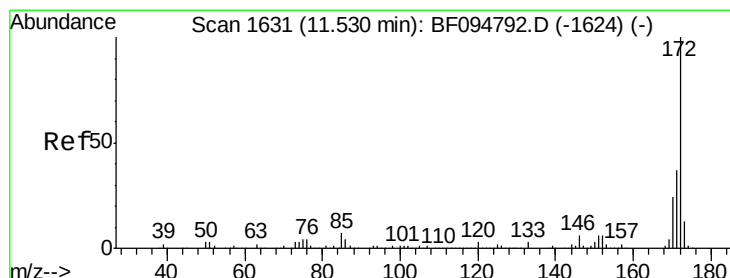
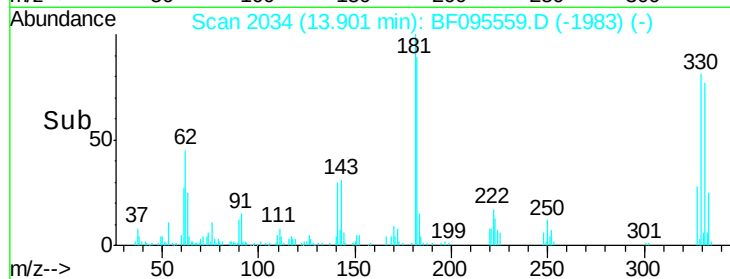
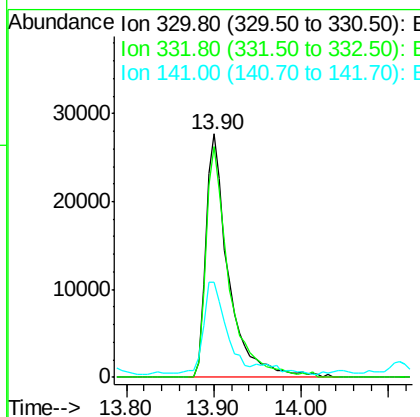
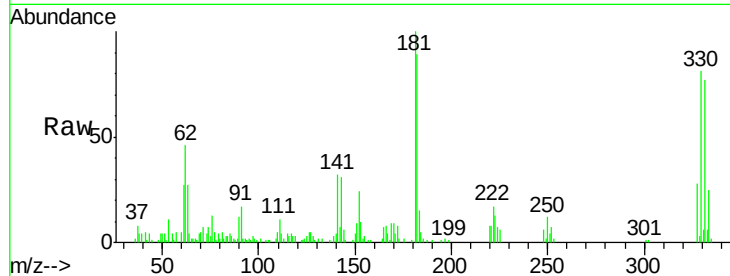
#41
 2,4,6-Tribromophenol
 Concen: 41.88 ng
 RT: 13.90 min Scan# 2034
 Delta R.T. 0.00 min
 Lab File: BF095559.D
 Acq: 31 May 2017 9:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	49733		
332	95.0	76.6	115.0	
141	37.8	31.4	47.2	

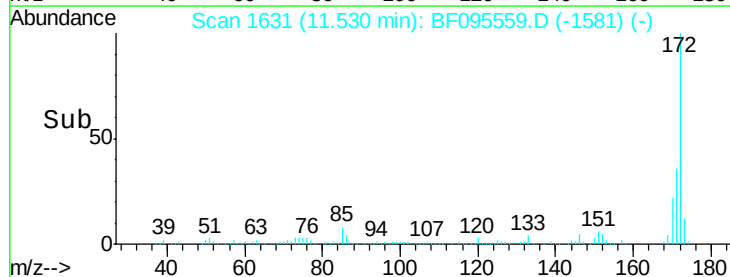
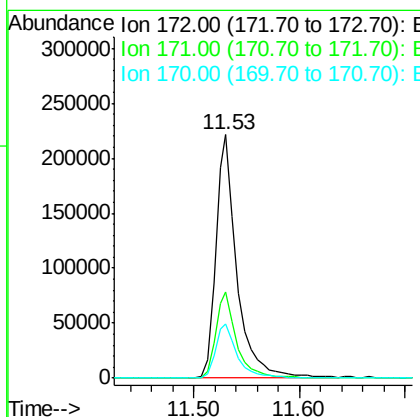
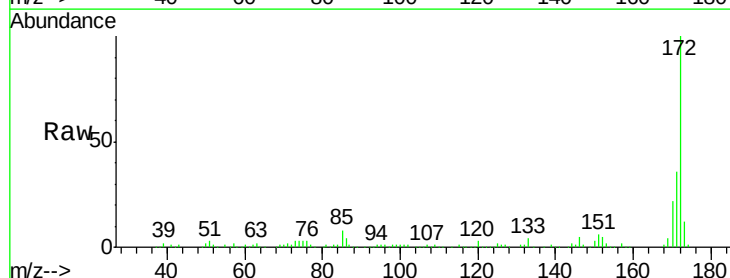
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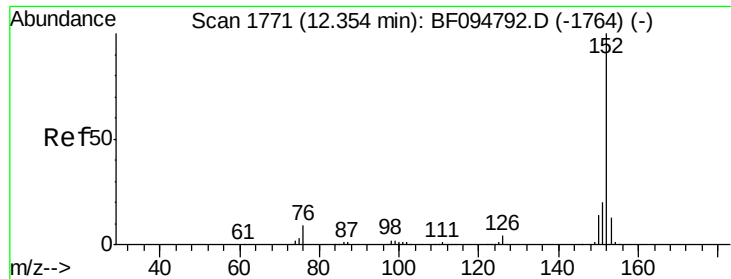
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#44
 2-Fluorobiphenyl
 Concen: 30.66 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: BF095559.D
 Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	308883		
171	35.6	29.6	44.4	
170	22.4	19.8	29.8	





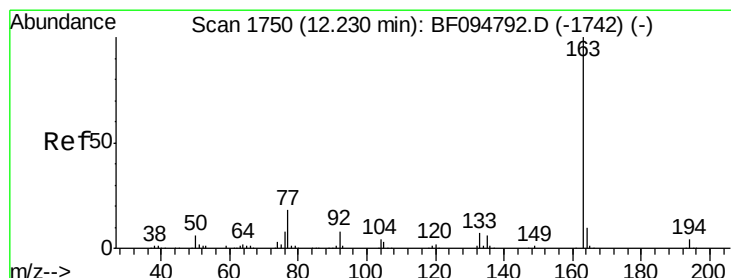
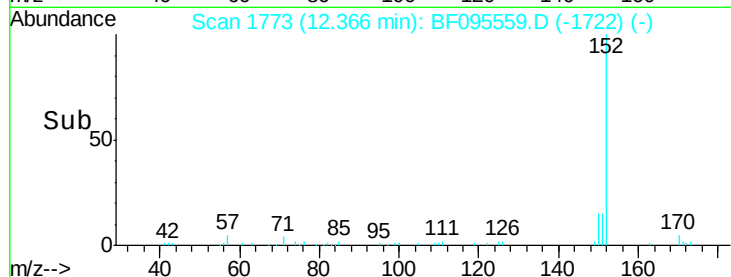
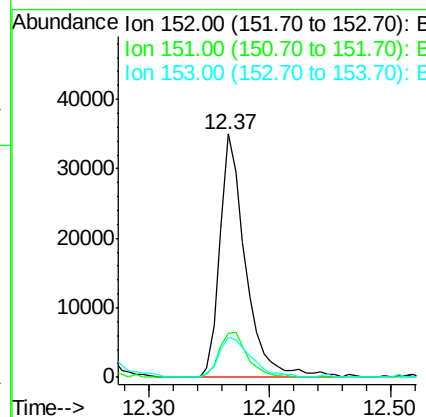
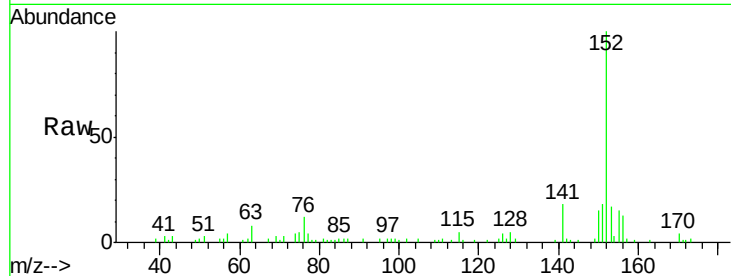
#48
Acenaphthylene
Concen: 3.32 ng
RT: 12.37 min Scan# 1773
Delta R.T. 0.00 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.2	16.8	25.2
153	16.7	10.8	16.2#

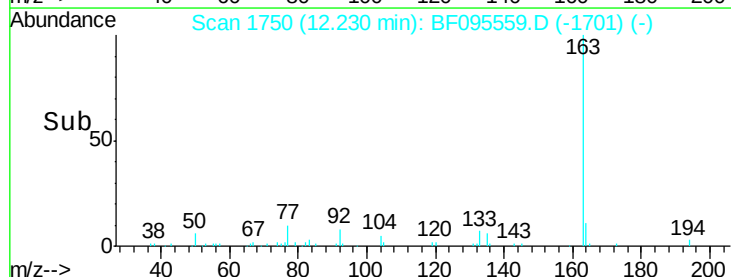
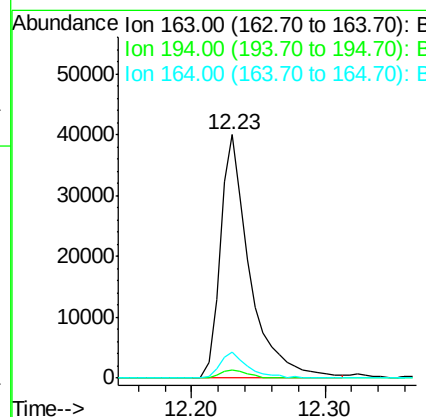
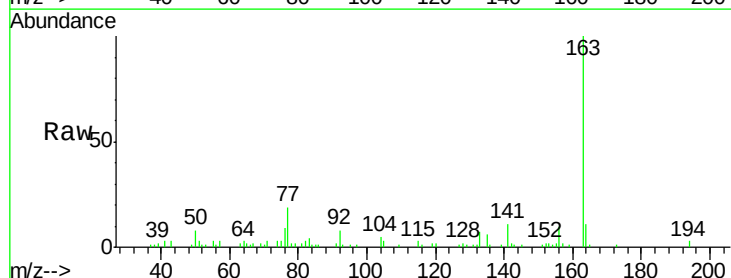
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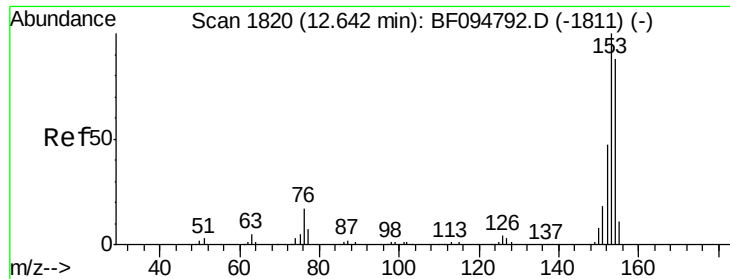
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#49
Dimethylphthalate
Concen: 5.20 ng
RT: 12.23 min Scan# 1750
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.6	4.0
164	10.6	8.4	12.6





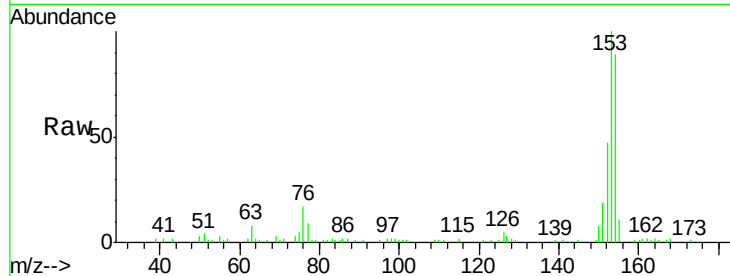
#51
Acenaphthene
Concen: 6.75 ng
RT: 12.64 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

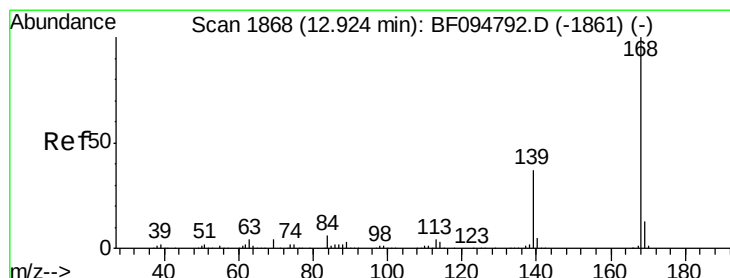
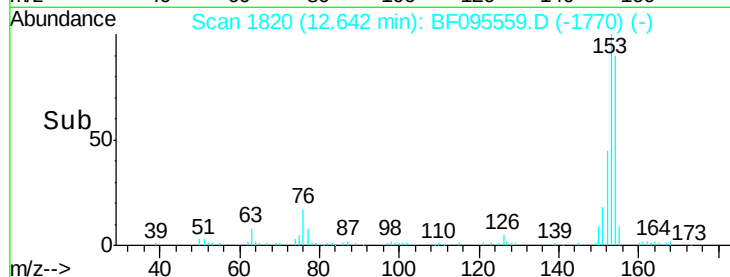
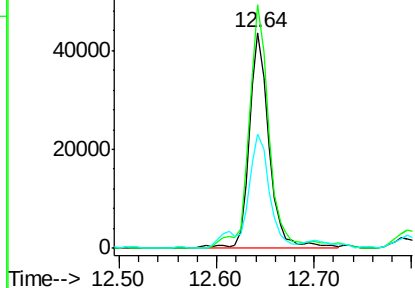
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.9	90.5	135.7
152	52.9	43.6	65.4

Manual Integrations
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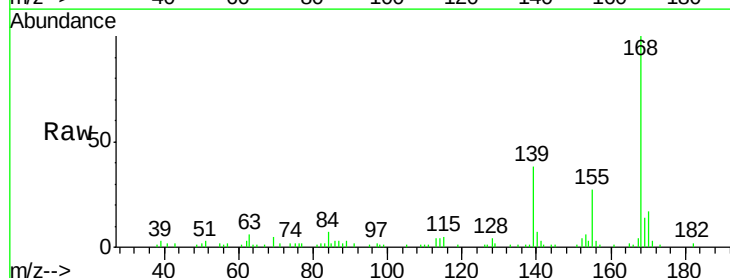


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

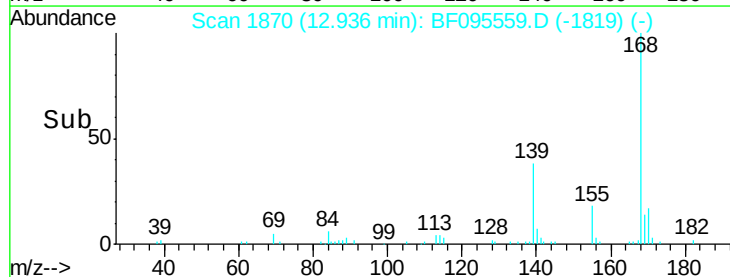
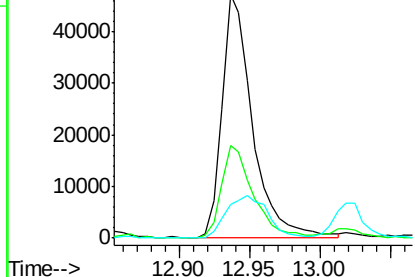


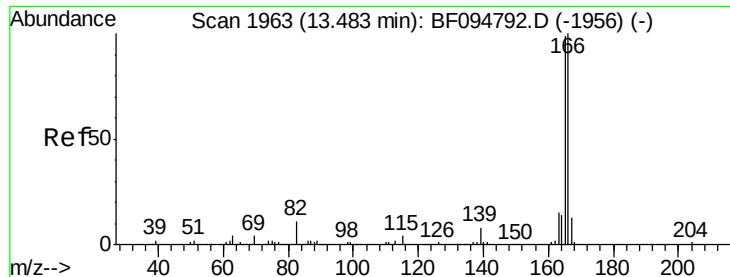
#54
Dibenzofuran
Concen: 5.57 ng
RT: 12.94 min Scan# 1870
Delta R.T. 0.00 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.1	30.6	45.8
169	14.0	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: 14.21 ng

RT: 13.48 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Instrument :

BNA_F

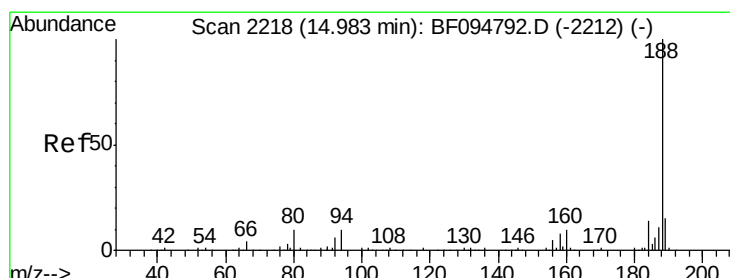
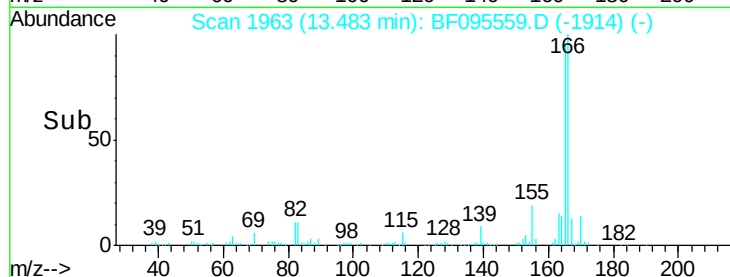
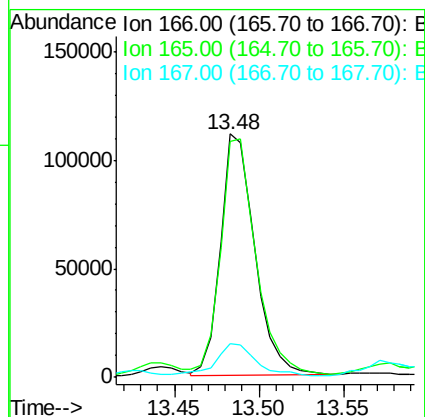
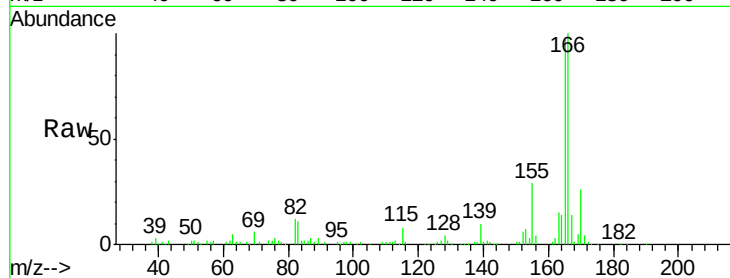
ClientSampleId :

R1-TP-2-D1012DL

Tgt Ion:	166	Resp:	157646
Ion Ratio		Lower	Upper
166	100		
165	96.8	78.8	118.2
167	13.9	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

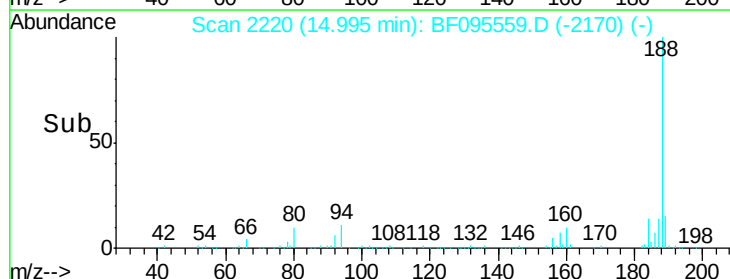
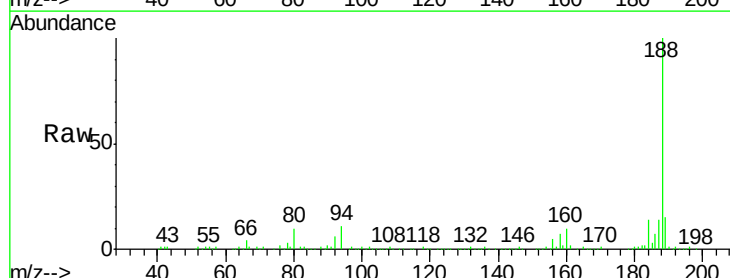
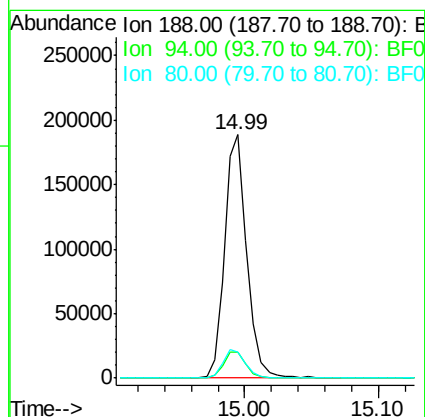
RT: 14.99 min Scan# 2220

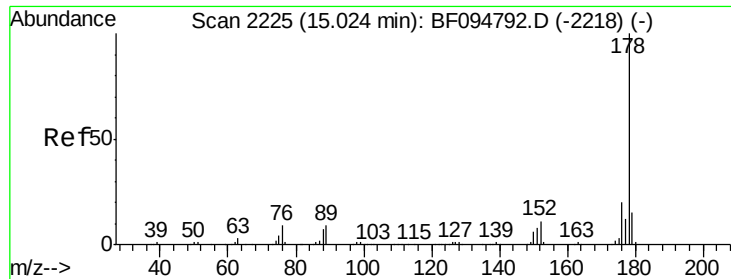
Delta R.T. -0.01 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Tgt Ion:	188	Resp:	220242
Ion Ratio		Lower	Upper
188	100		
94	10.8	9.4	14.2
80	10.5	10.2	15.2





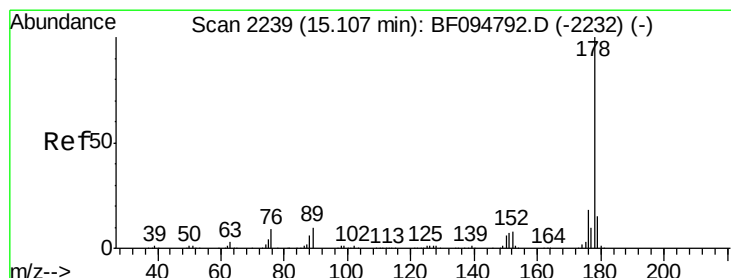
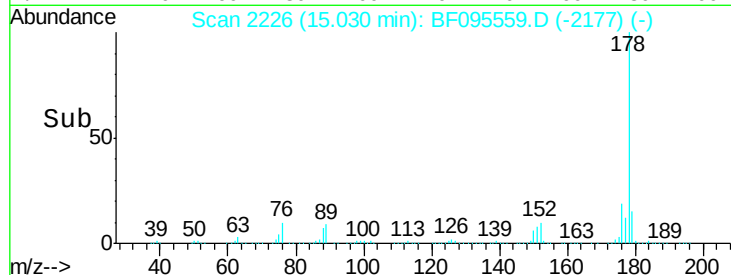
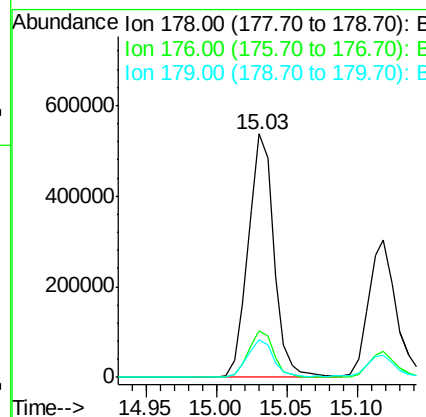
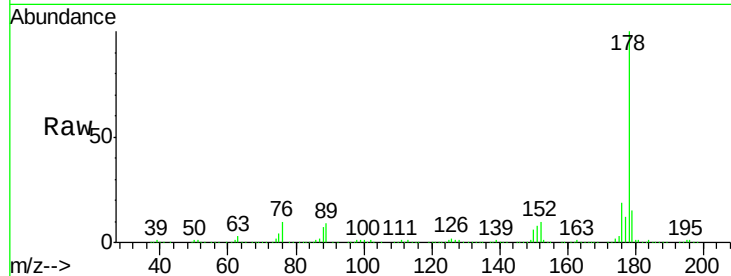
#70
Phenanthrene
Concen: 54.38 ng
RT: 15.03 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.2	24.4
179	15.3	12.6	19.0

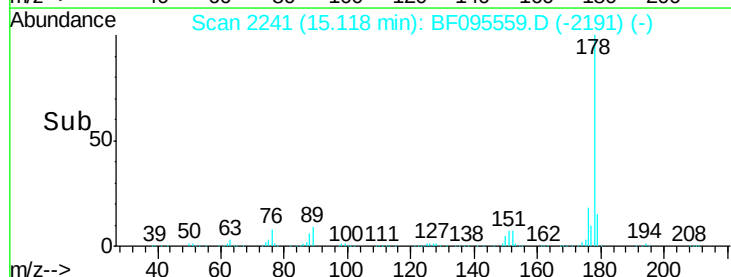
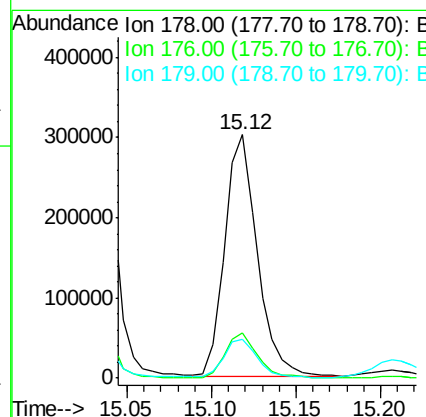
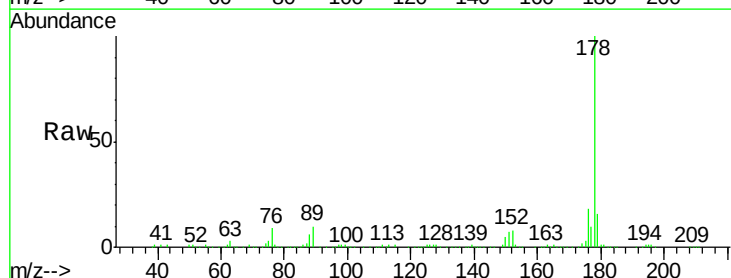
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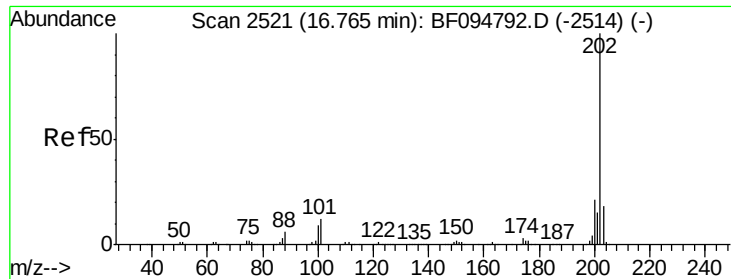
mohammad
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#71
Anthracene
Concen: 31.36 ng
RT: 15.12 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.9	12.7	19.1





#74

Fluoranthene

Concen: 63.89 ng

RT: 16.78 min Scan# 2524

Delta R.T. 0.00 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Instrument :

BNA_F

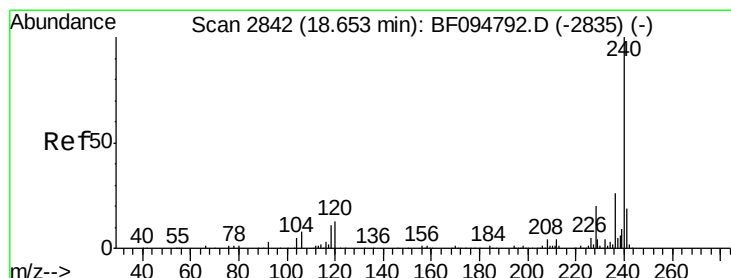
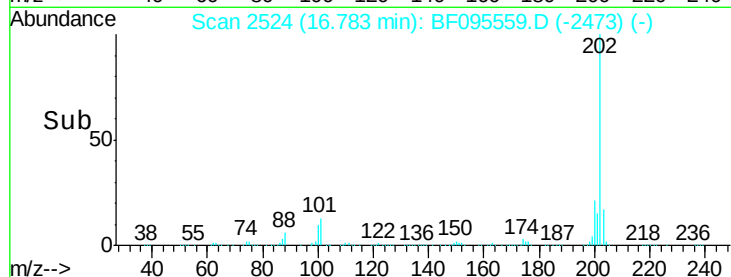
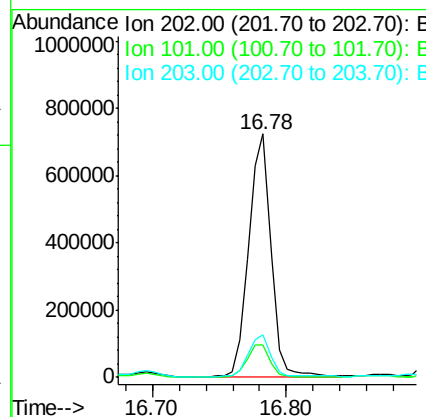
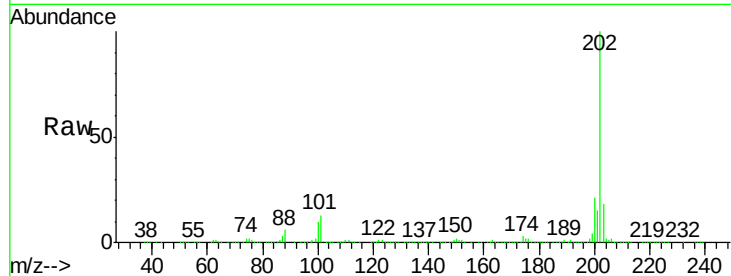
ClientSampleId :

R1-TP-2-D1012DL

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		829409		
101	13.2	0.0	33.2		
203	17.5	0.0	38.1		

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

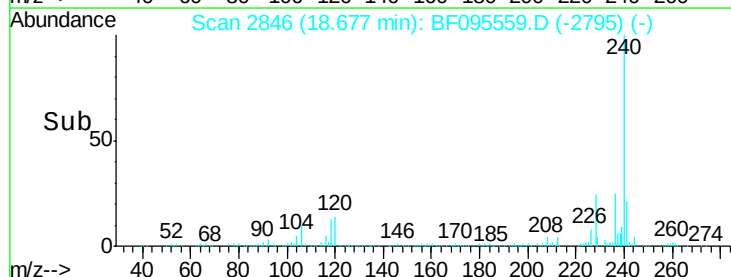
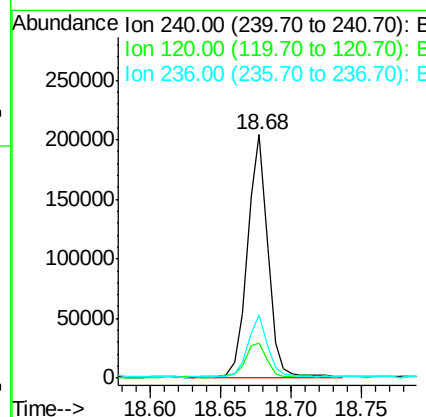
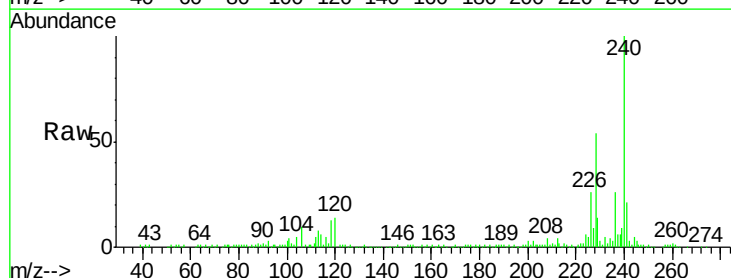
RT: 18.68 min Scan# 2846

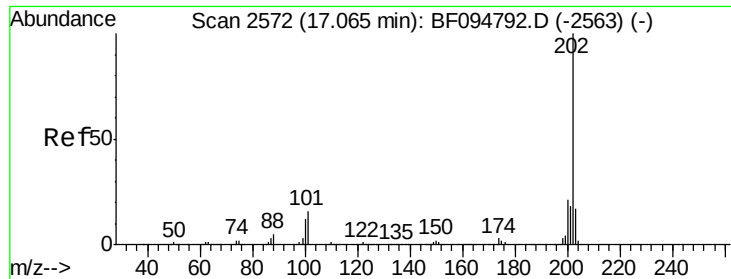
Delta R.T. 0.00 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		203892		
120	14.5	5.8	8.8#		
236	25.7	20.5	30.7		





#77

Pyrene

Concen: 46.70 ng

RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Instrument :

BNA_F

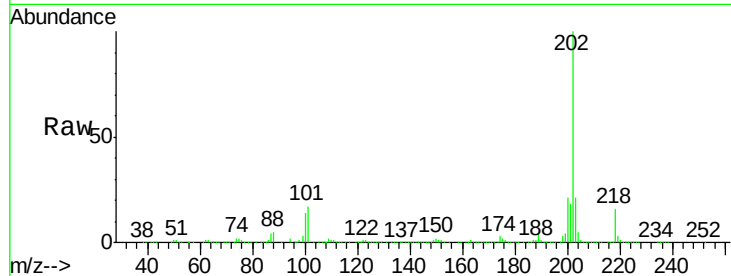
ClientSampleId :

R1-TP-2-D1012DL

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		712161		
200	21.3	17.6	26.4		
203	20.7	14.4	21.6		

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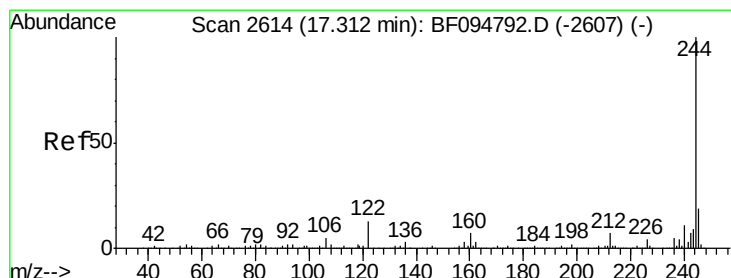
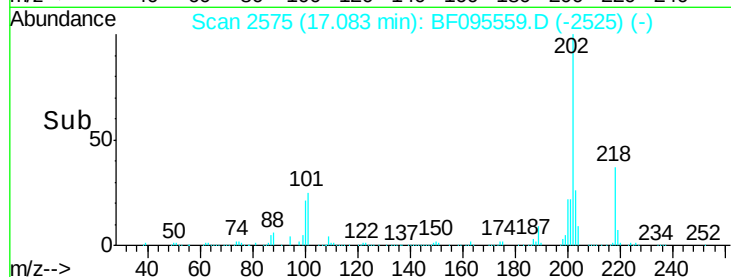
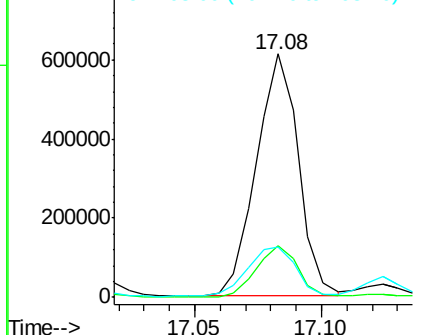


Abundance

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: 24.17 ng

RT: 17.31 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

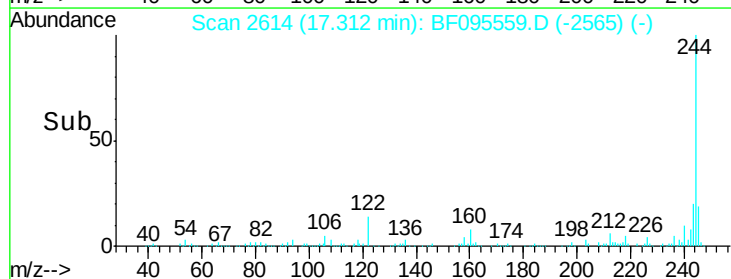
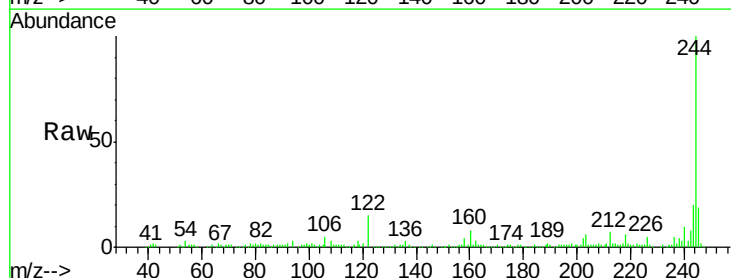
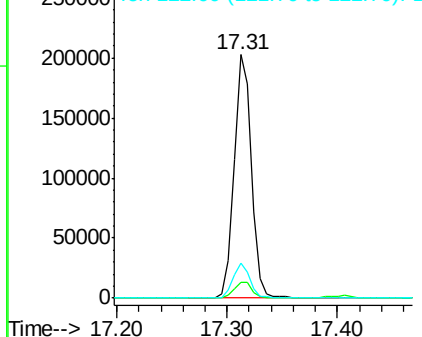
Tgt	Ion	Ratio	Resp	Lower	Upper
244	100		223718		
212	6.5	6.0	9.0		
122	14.6	10.3	15.5		

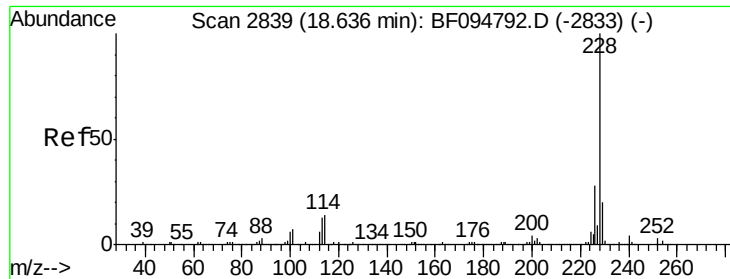
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





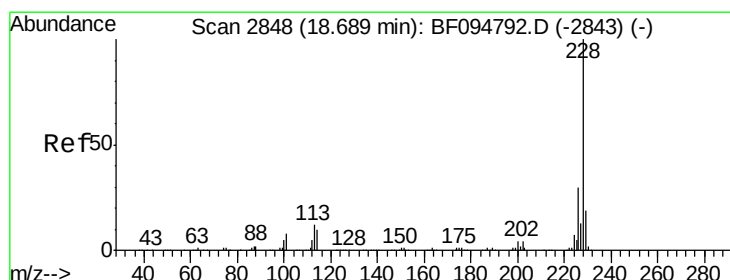
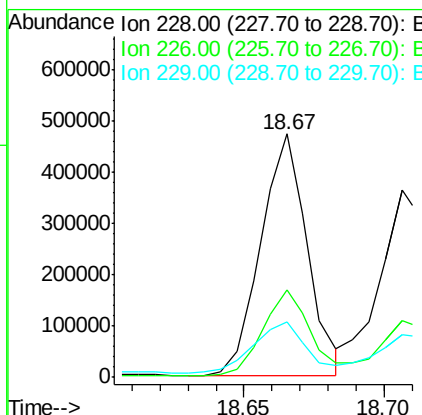
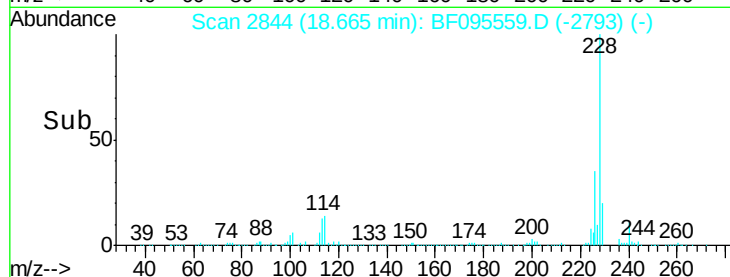
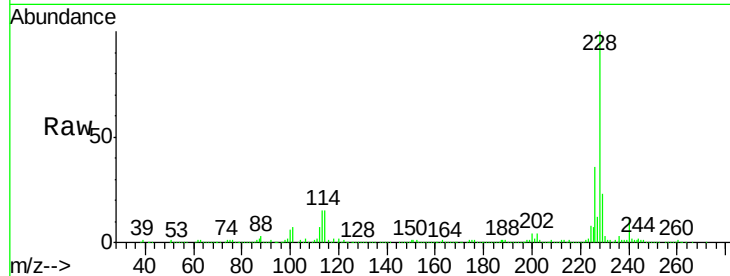
#80
Benzo(a)anthracene
Concen: 46.39 ng m
RT: 18.67 min Scan# 2844
Delta R.T. 0.00 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.8	22.6	33.8#
229	23.0	16.3	24.5

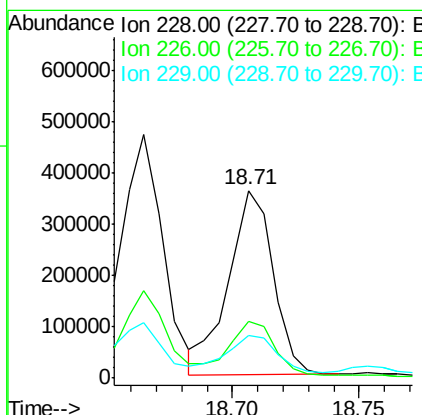
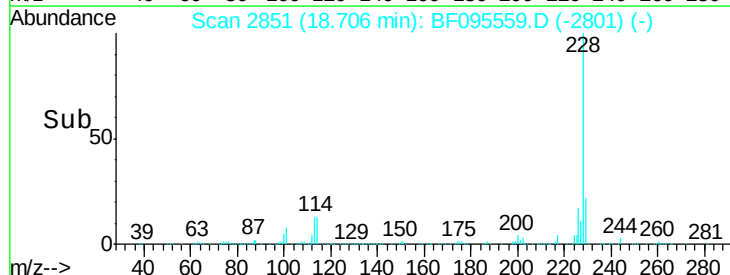
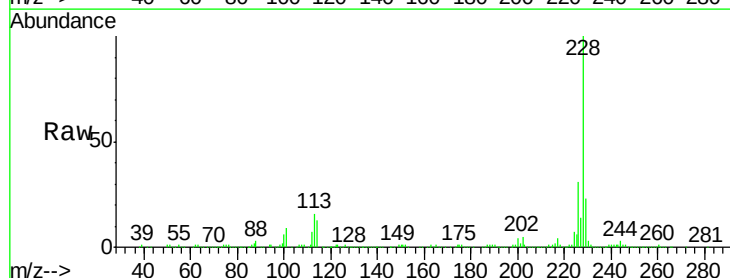
Manual Integrations
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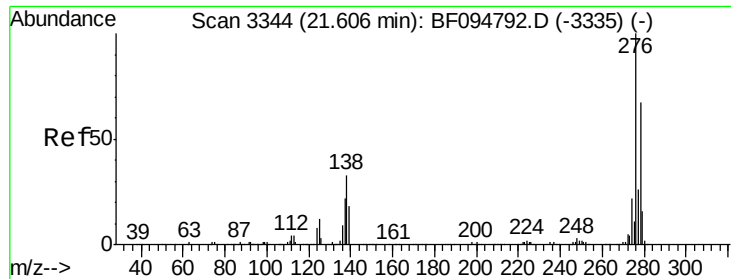
mohammad
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#82
Chrysene
Concen: 38.63 ng
RT: 18.71 min Scan# 2851
Delta R.T. -0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.9	37.3
229	23.0	15.8	23.6





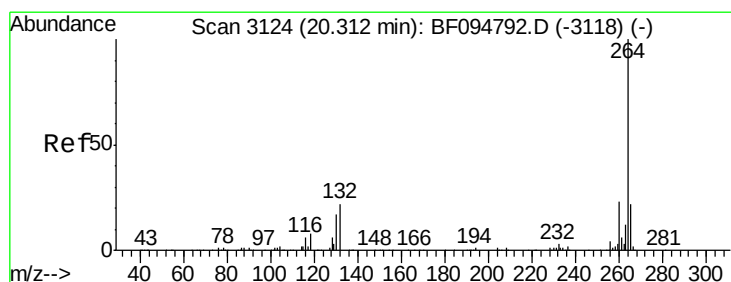
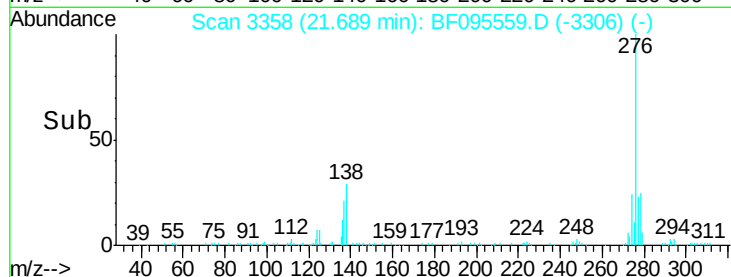
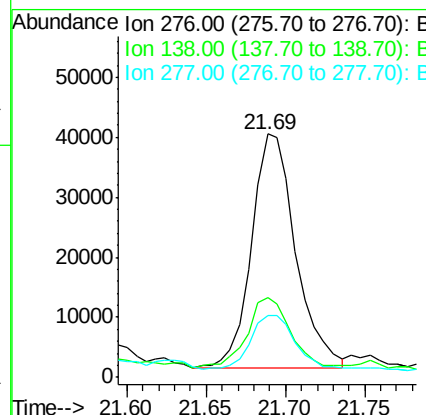
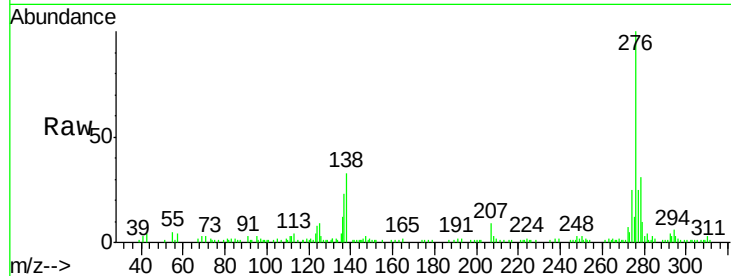
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.04 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.7	27.8	41.6
277	23.6	20.2	30.4

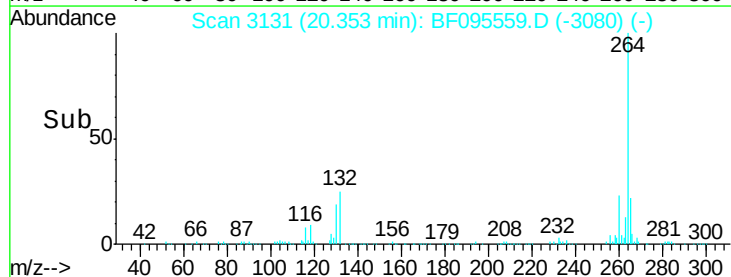
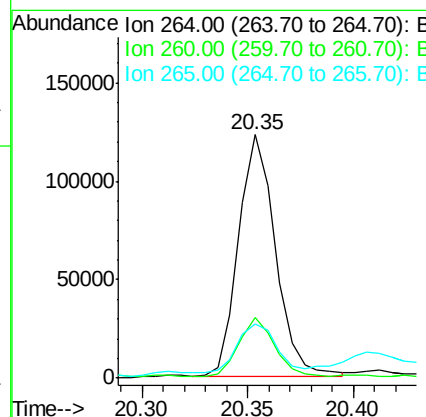
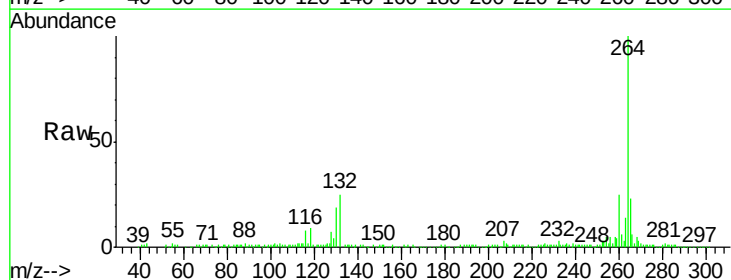
Manual Integrations
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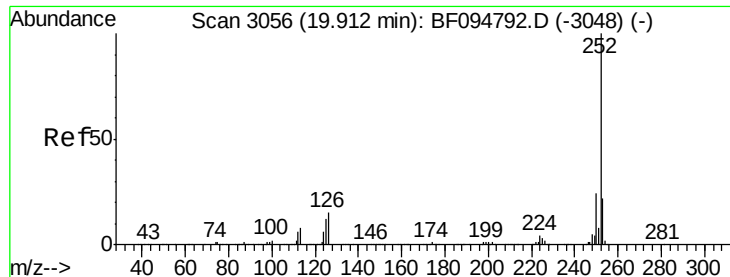
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. 0.00 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.5	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 40.99 ng m

RT: 19.95 min Scan# 3062

Delta R.T. 0.01 min

Lab File: BF095559.D

Acq: 31 May 2017 9:35

Instrument :

BNA_F

ClientSampleId :

R1-TP-2-D1012DL

Tgt Ion: 252 Resp: 373449
Ion Ratio Lower Upper

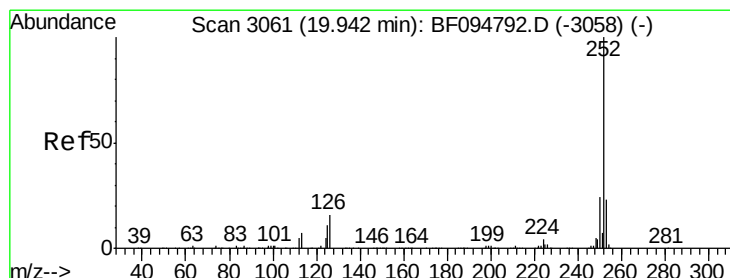
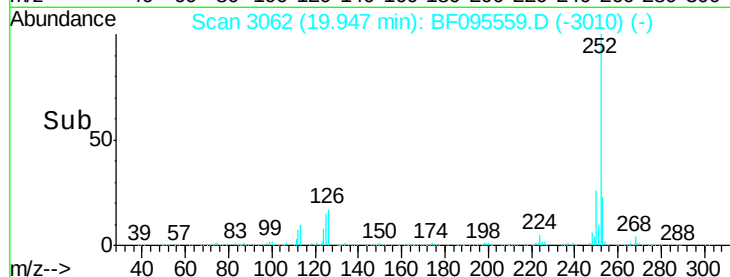
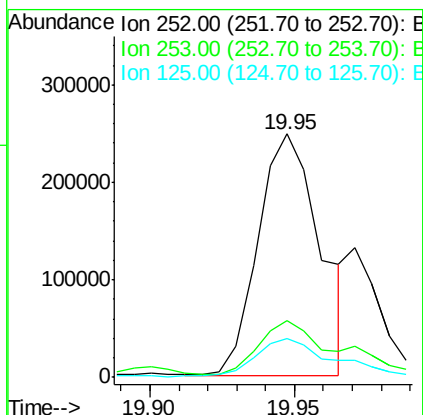
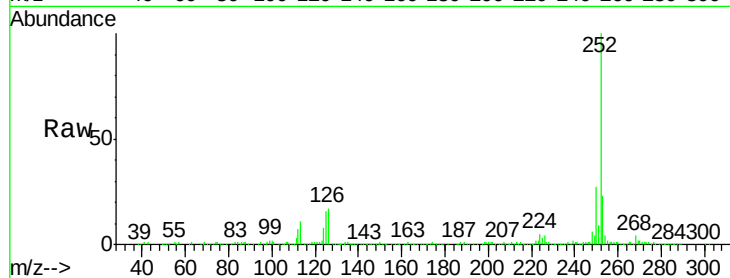
252 100

253 23.4 18.1 27.1

125 15.8 9.8 14.8#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 11.88 ng m

RT: 19.97 min Scan# 3066

Delta R.T. 0.00 min

Lab File: BF095559.D

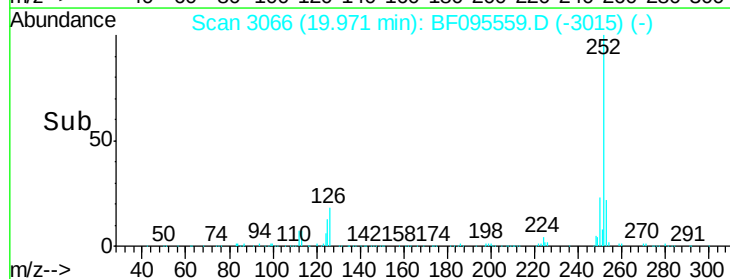
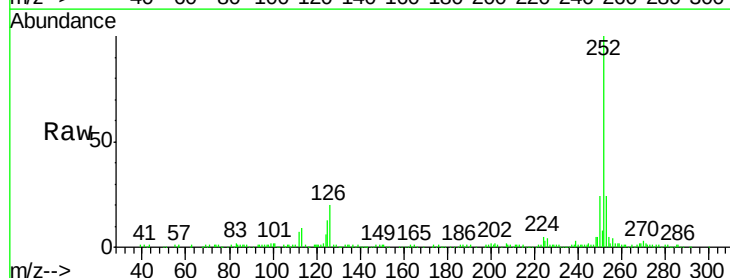
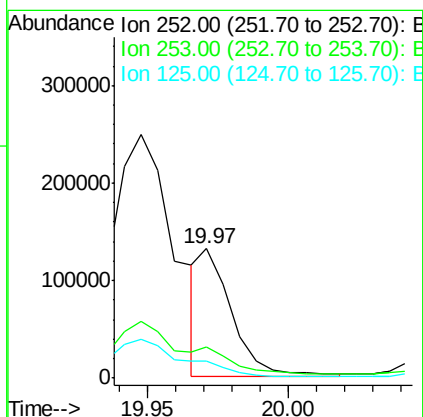
Acq: 31 May 2017 9:35

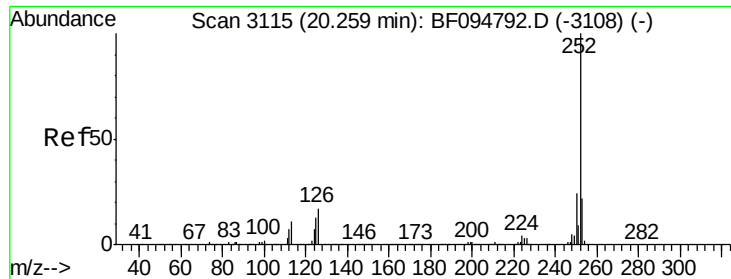
Tgt Ion: 252 Resp: 104396
Ion Ratio Lower Upper

252 100

253 23.7 18.4 27.6

125 13.4 13.1 19.7





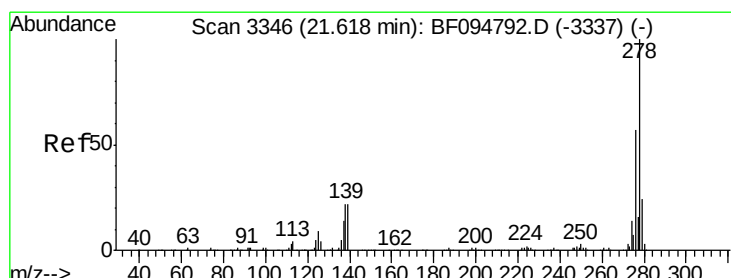
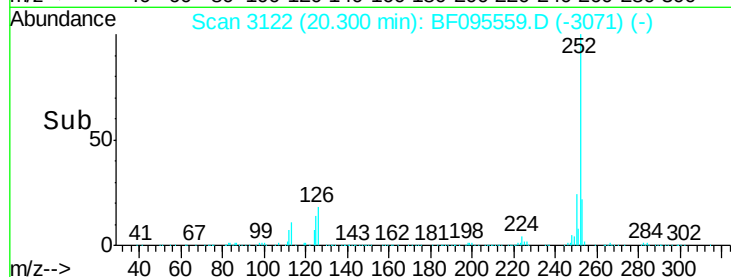
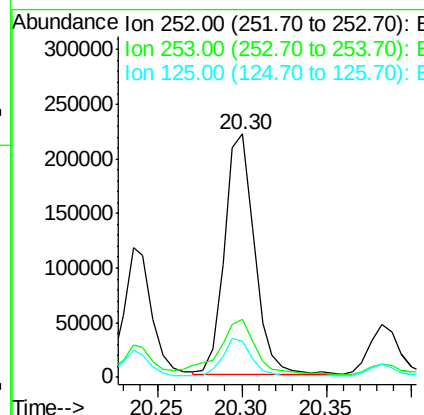
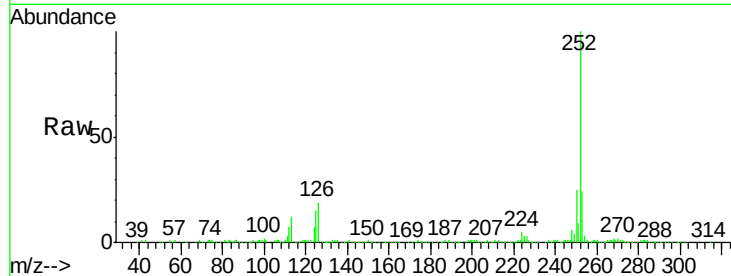
#89
Benzo(a)pyrene
Concen: 32.22 ng
RT: 20.30 min Scan# 3122
Delta R.T. 0.00 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Instrument :
BNA_F
ClientSampleId :
R1-TP-2-D1012DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.8	17.5	26.3
125	14.8	11.0	16.4

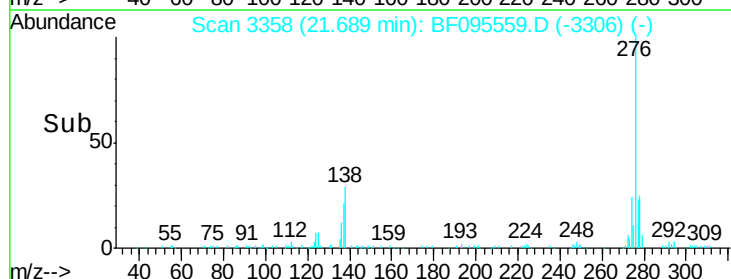
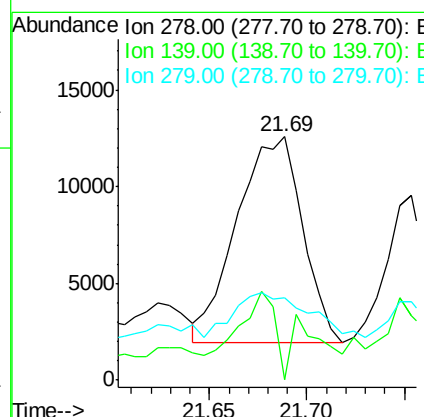
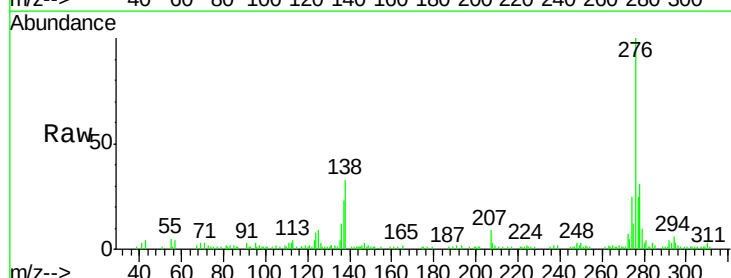
Manual Integrations
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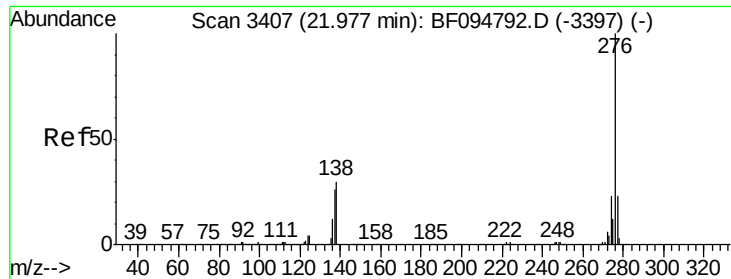
mohammad
5/31/2017 5:03:09 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.54 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095559.D
Acq: 31 May 2017 9:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	0.0	16.6	24.8#
279	33.6	19.3	28.9#





#91
 Benzo(g,h,i)perylene
 Concen: 9.14 ng
 RT: 22.08 min Scan# 3425
 Delta R.T. 0.01 min
 Lab File: BF095559.D
 Acq: 31 May 2017 9:35

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-2-D1012DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	34.5	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 5/31/2017 5:03:09 PM

