

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF098130.D
 Acq On : 30 Aug 2017 00:18
 Operator : SJ/JU
 Sample : I4979-04 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Manual Integrations
 APPROVED

Sohil
 8/30/2017 6:45:10 PM

Quant Time: Aug 30 07:14:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	116946	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	397531	20.00	ng	-0.01
38) Acenaphthene-d10	9.79	164	151790	20.00	ng	0.00
63) Phenanthrene-d10	11.27	188	221268	20.00	ng	0.01
75) Chrysene-d12	13.90	240	238922	20.00	ng	0.00
86) Perylene-d12	15.32	264	199291	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	195463	25.42	ng	-0.02
7) Phenol-d6	6.36	99	257443	24.64	ng	-0.02
23) Nitrobenzene-d5	7.30	82	145461	19.88	ng	-0.02
41) 2,4,6-Tribromophenol	10.58	330	23550	17.88	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	172828	16.73	ng	-0.01
78) Terphenyl-d14	12.85	244	104451	9.12	ng	0.00
Target Compounds						
31) Naphthalene	8.05	128	365901	17.730	ng	# 93
37) 2-Methylnaphthalene	8.74	142	255883	20.223	ng	# 95
45) 1,1'-Biphenyl	9.20	154	90684	6.551	ng	97
49) Dimethylphthalate	9.50	163	55925	5.040	ng	# 88
51) Acenaphthene	9.83	154	1725326	170.331	ng	97
54) Dibenzofuran	10.00	168	1698605	125.123	ng	98
57) Fluorene	10.35	166	1653251	157.515	ng	# 97
70) Phenanthrene	11.32	178	3466067	293.965	ng	99
71) Anthracene	11.36	178	1554772	130.009	ng	99
74) Fluoranthene	12.49	202	1619575	131.600	ng	99
77) Pyrene	12.72	202	1386043	70.930	ng	98
80) Benzo(a)anthracene	13.89	228	286450	20.004	ng	96
82) Chrysene	13.93	228	205853	14.451	ng	96
85) Indeno(1,2,3-cd)pyrene	16.68	276	22964	2.191	ng	# 87
87) Benzo(b)fluoranthene	14.91	252	115388m	9.186	ng	
88) Benzo(k)fluoranthene	14.93	252	37619m	3.188	ng	
89) Benzo(a)pyrene	15.26	252	78355	7.046	ng	# 94
91) Benzo(g,h,i)perylene	17.10	276	22215	2.352	ng	92

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

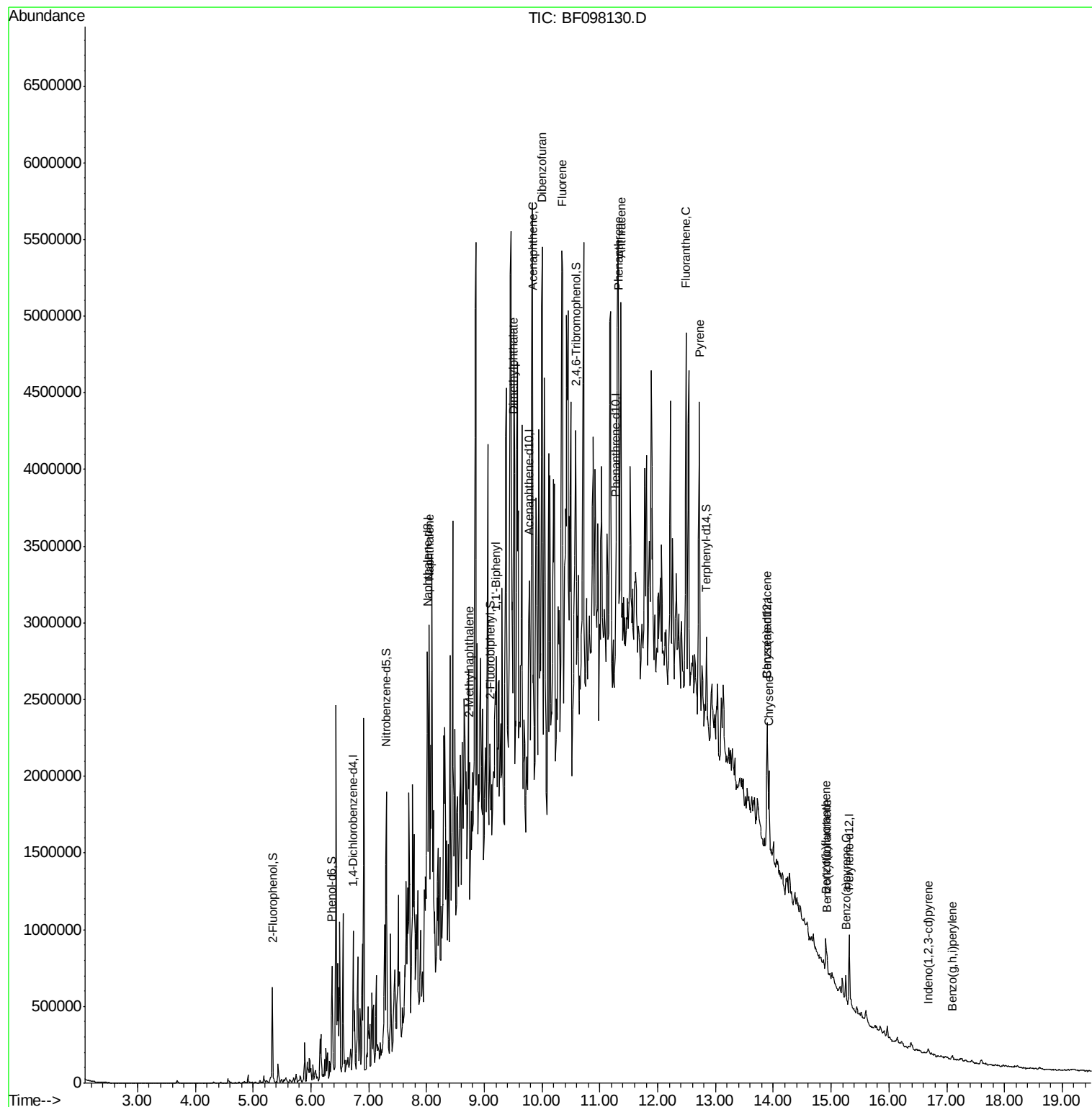
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
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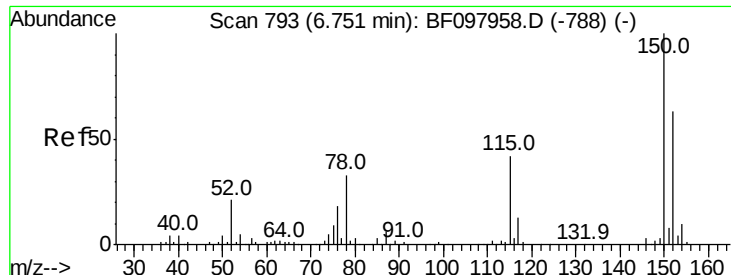
Instrument :
BNA_F
ClientSampled :
TP-4

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#1

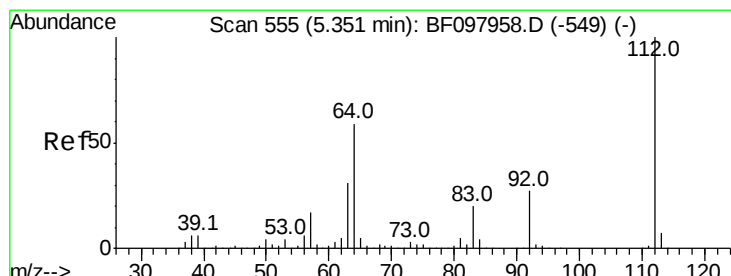
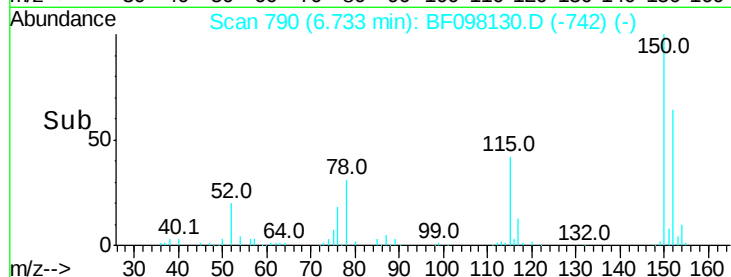
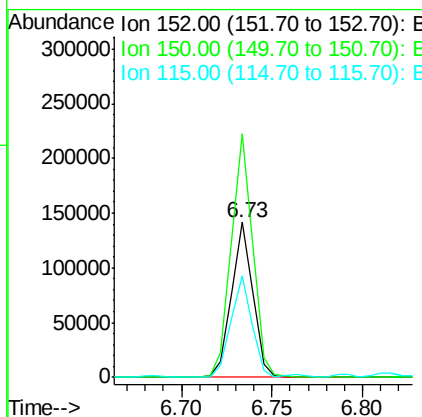
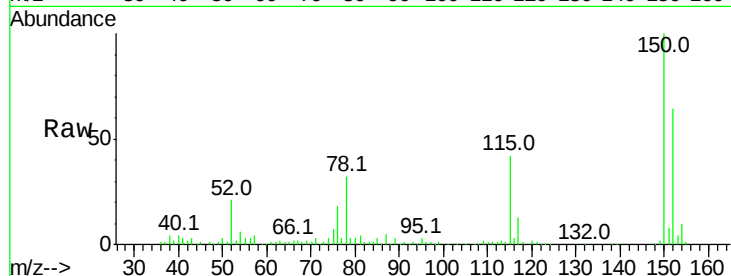
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	126.2	189.2
115	65.4	52.2	78.2

Manual Integrations
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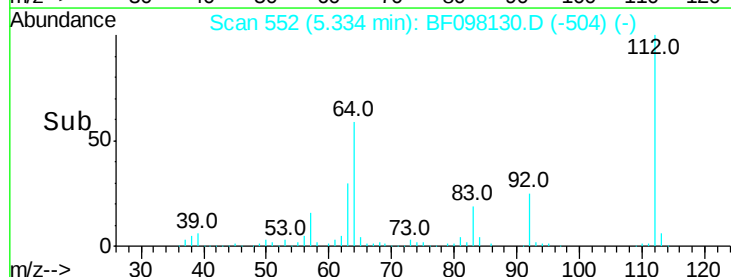
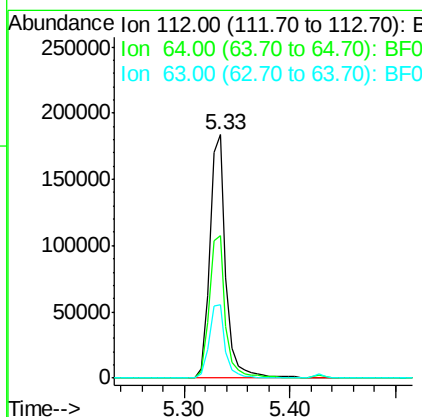
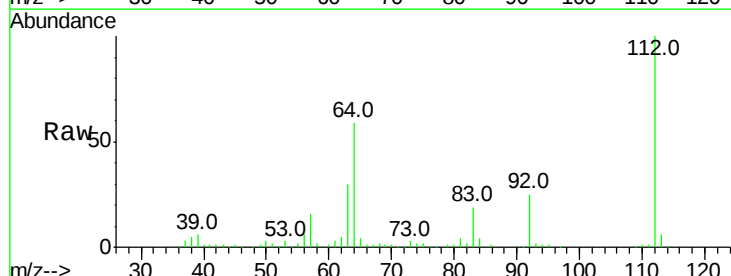
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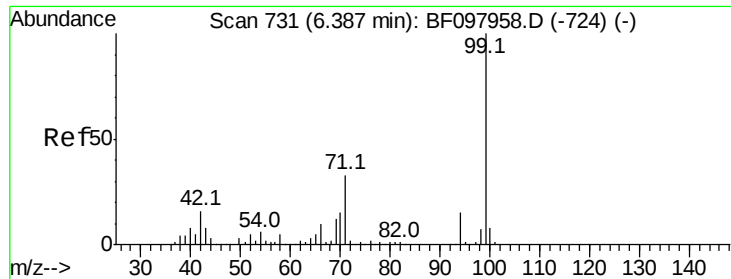


#5

2-Fluorophenol
Concen: 25.423 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	46.0	69.0
63	30.1	23.4	35.0





#7

Phenol-d6

Concen: 24.644 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Instrument :

BNA_F

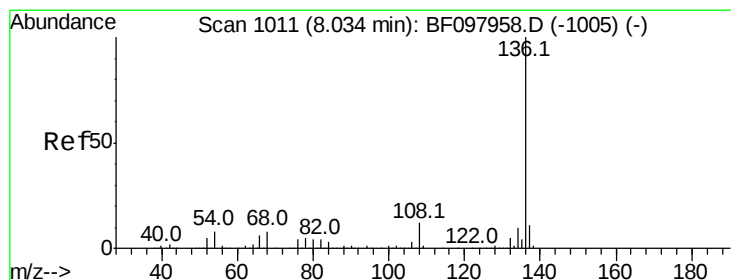
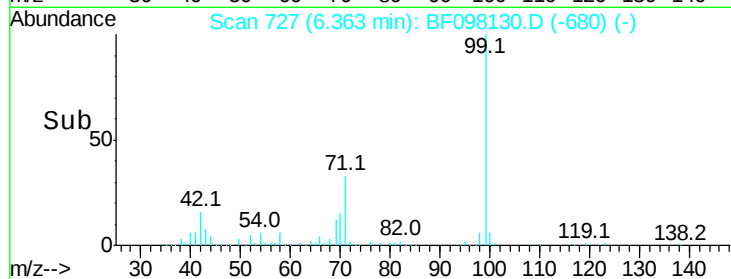
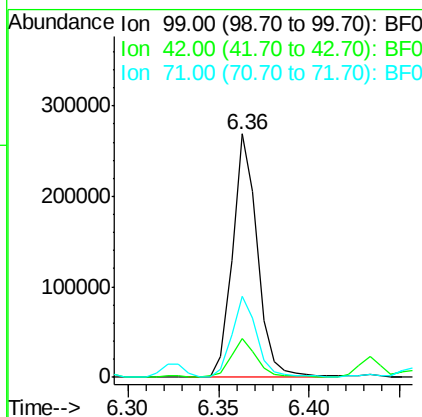
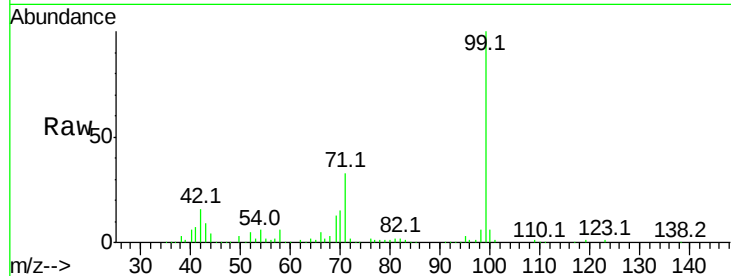
ClientSampled :

TP-4

Tot Ion:	99	Resp:	257443
Ion Ratio	Lower	Upper	
99	100		
42	15.9	13.5	20.3
71	33.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

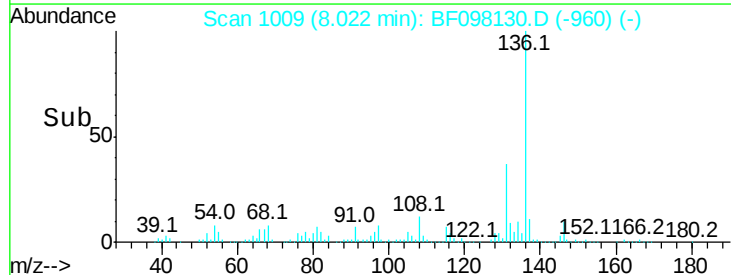
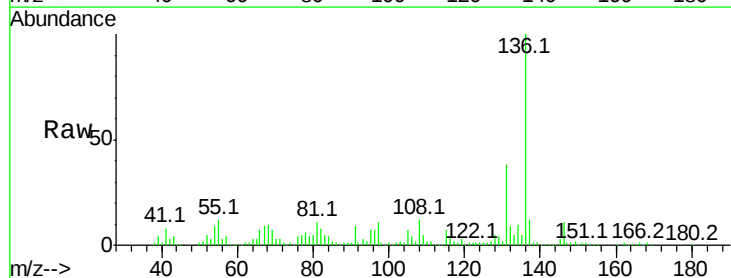
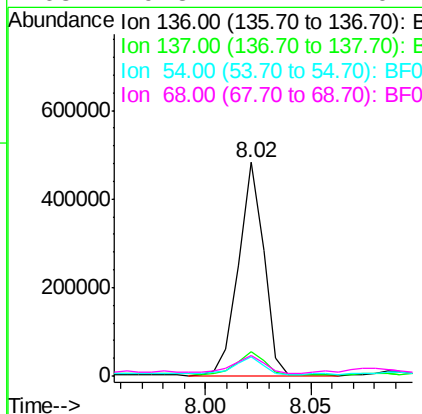
RT: 8.02 min Scan# 1009

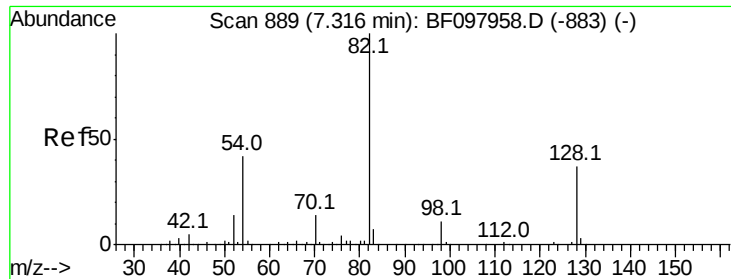
Delta R.T. -0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Tgt Ion:	136	Resp:	397531
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.5	12.7
54	8.9	4.9	7.3#
68	9.8	4.1	6.1#





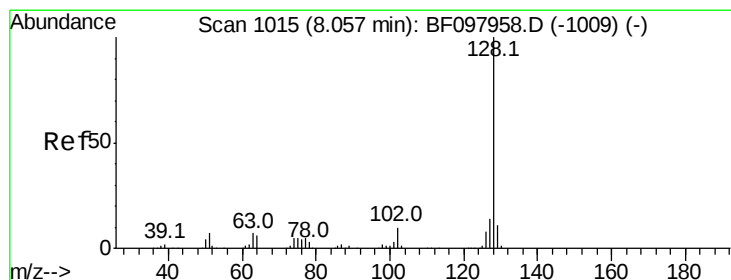
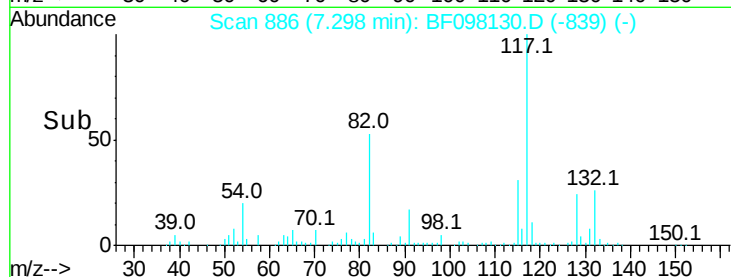
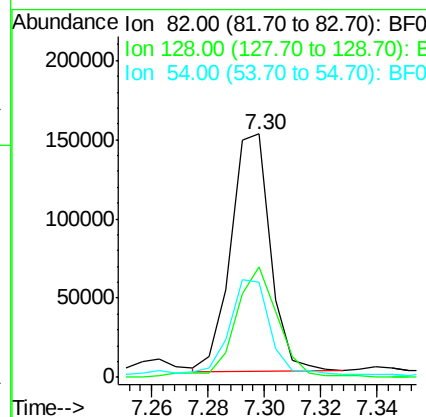
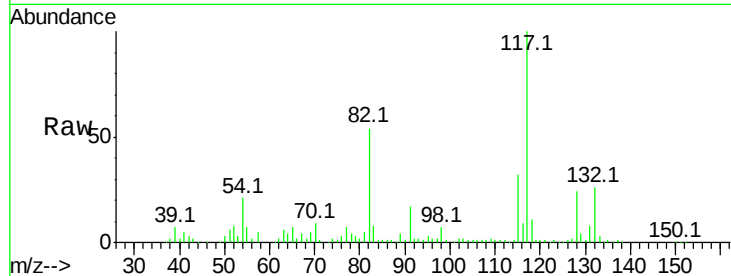
#23
Nitrobenzene-d5
Concen: 19.878 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.02 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.0	51.0
54	38.8	42.2	63.2

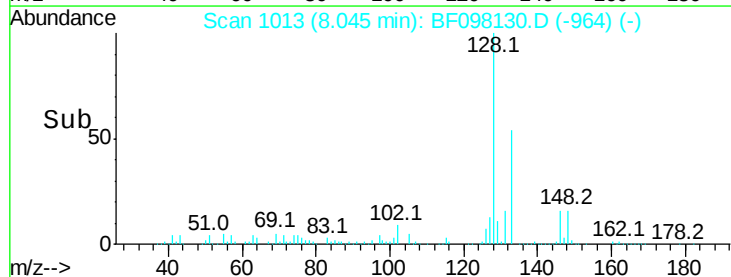
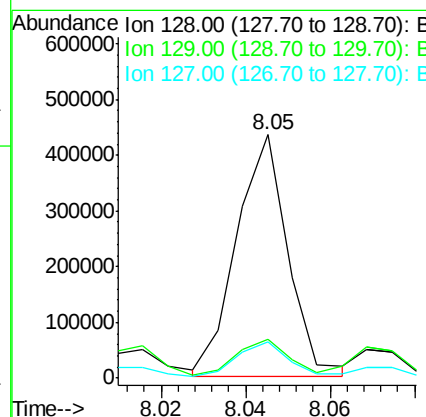
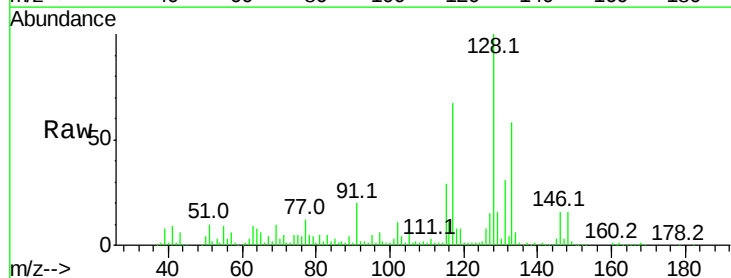
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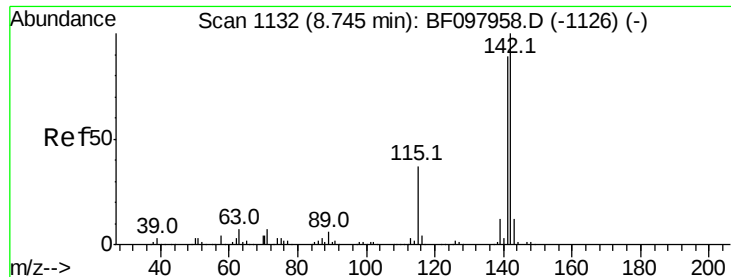
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#31
Naphthalene
Concen: 17.730 ng
RT: 8.05 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.8	9.0	13.6
127	14.7	10.8	16.2





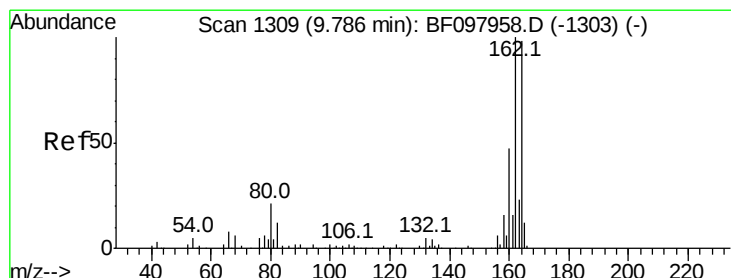
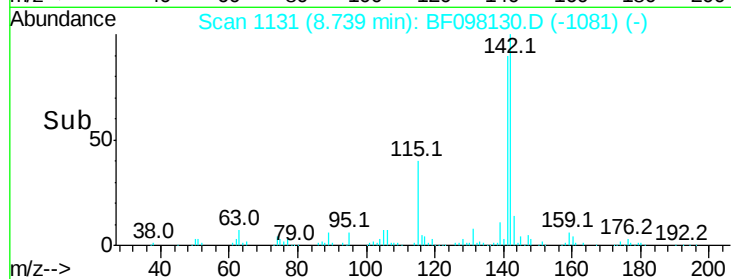
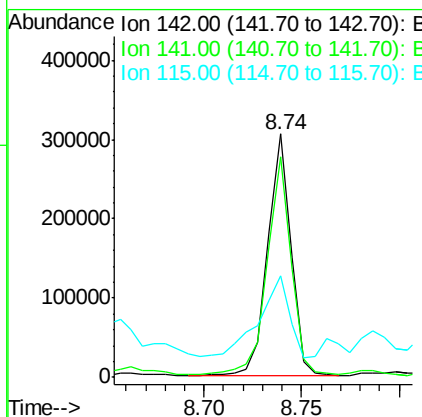
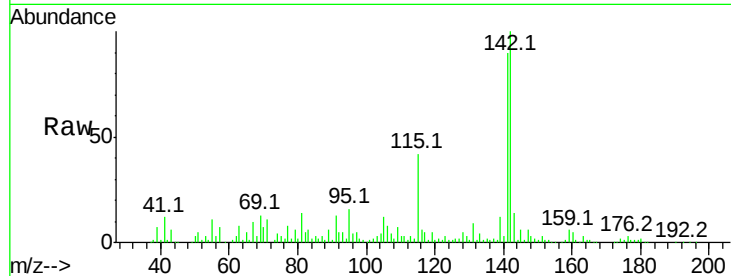
#37
 2-Methylnaphthalene
 Concen: 20.223 ng
 RT: 8.74 min Scan# 1131
 Delta R.T. -0.01 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion	Ratio	Resp	Lower	Upper
142	100	255883		
141	90.5	71.3	106.9	
115	41.6	27.1	40.7#	

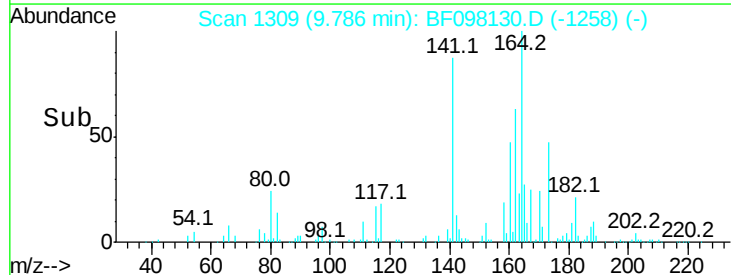
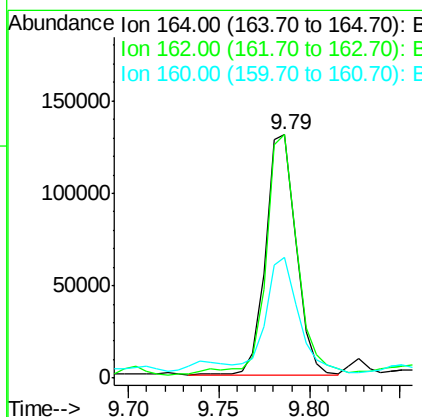
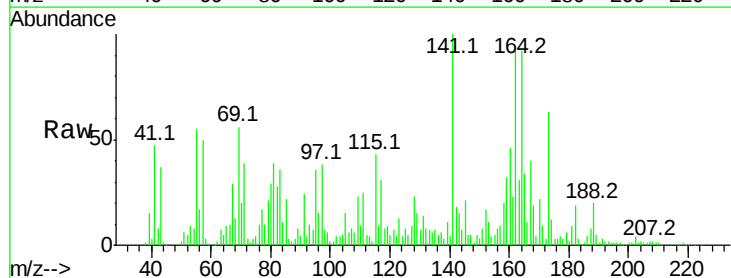
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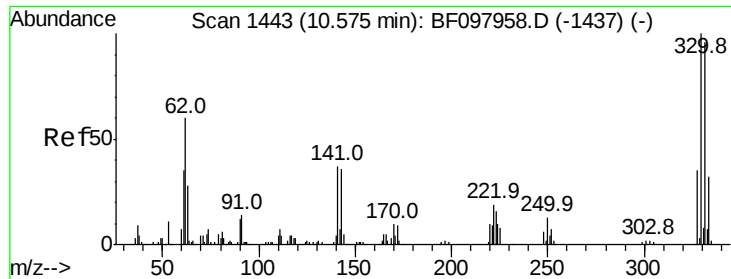
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.79 min Scan# 1309
 Delta R.T. -0.00 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	151790		
162	99.9	82.6	123.8	
160	49.5	36.2	54.2	





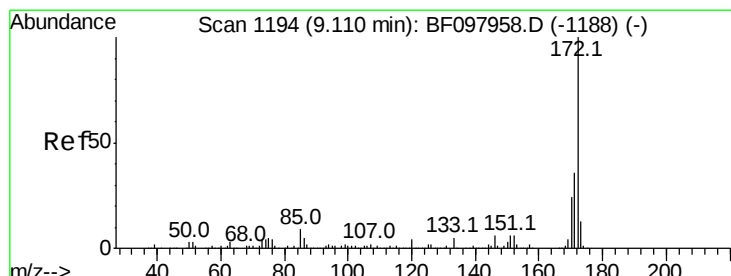
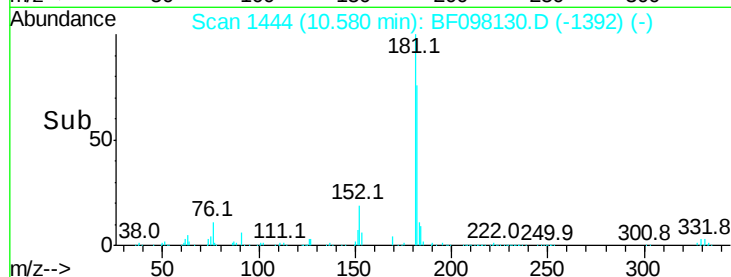
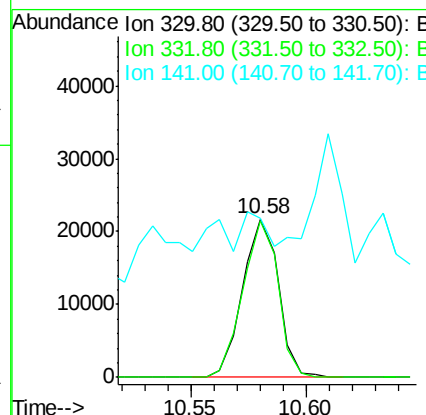
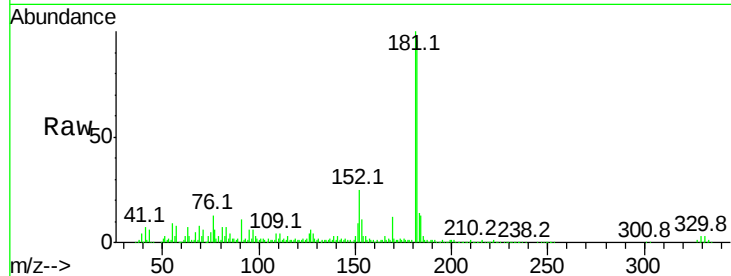
#41
 2,4,6-Tribromophenol
 Concen: 17.881 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. 0.01 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	15.9	31.4	47.2#

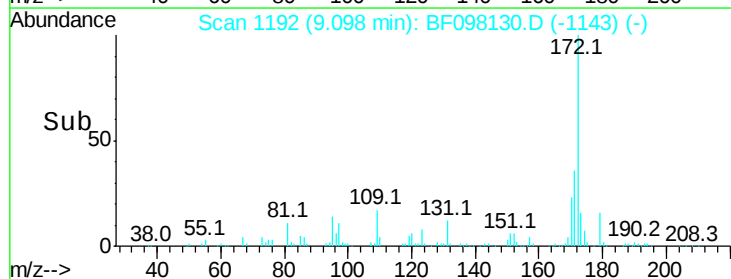
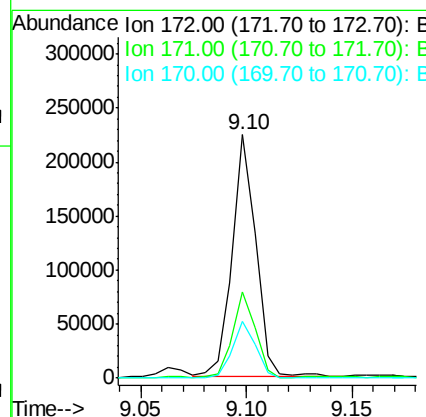
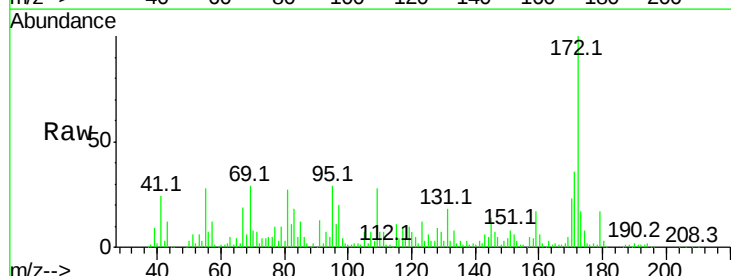
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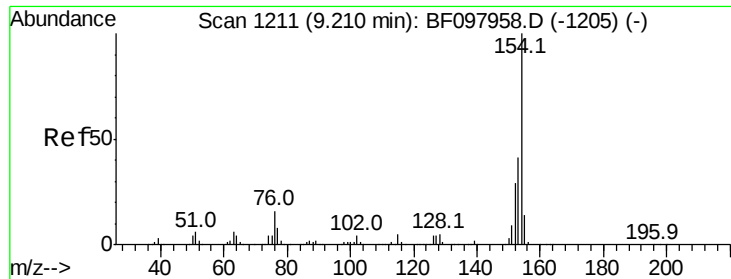
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#44
 2-Fluorobiphenyl
 Concen: 16.728 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.6	44.4
170	23.2	19.8	29.8





#45

1,1'-Biphenyl

Concen: 6.551 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Instrument :

BNA_F

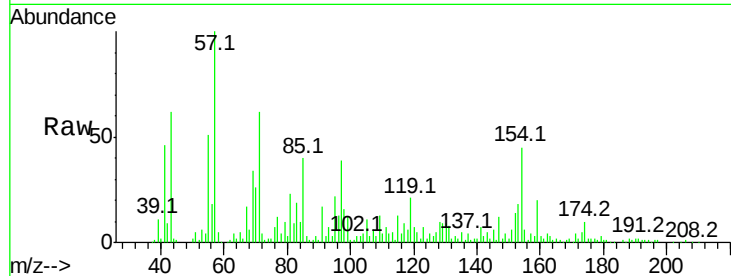
ClientSampled :

TP-4

Tot Ion:	154	Resp:	90684
Ion Ratio	Lower	Upper	
154	100		
153	40.8	21.2	61.2
76	14.9	0.0	29.9

Manual Integrations
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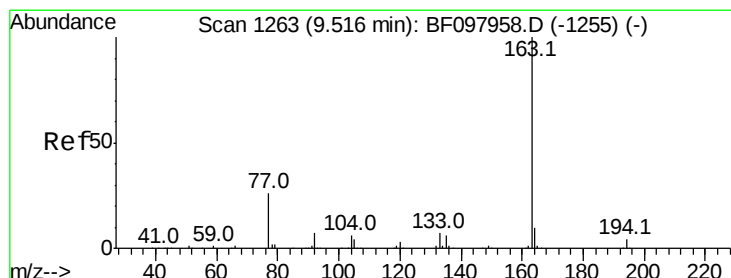
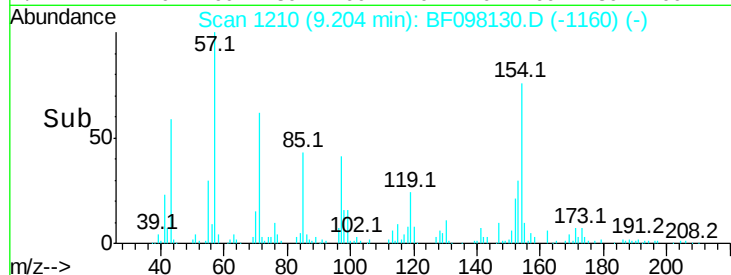
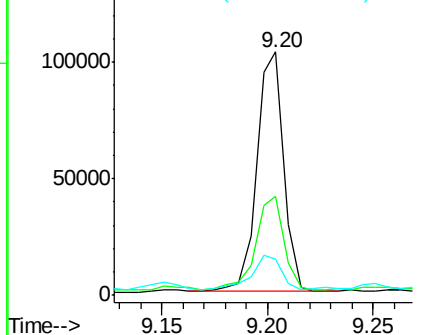
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 5.040 ng

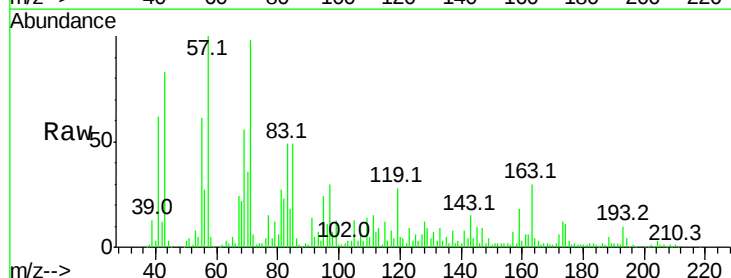
RT: 9.50 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

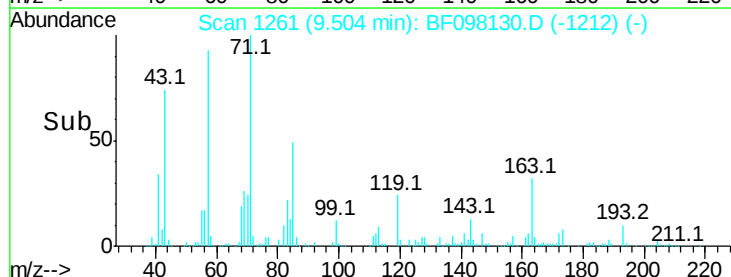
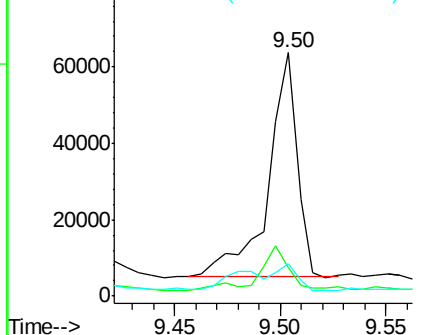
Tgt Ion:	163	Resp:	55925
Ion Ratio	Lower	Upper	
163	100		
194	11.8	2.6	4.0#
164	13.4	8.4	12.6#

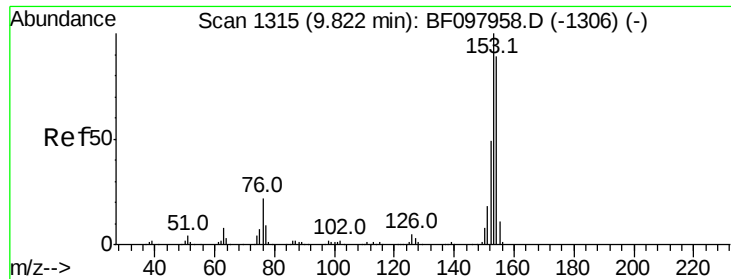


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 170.331 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Instrument :

BNA_F

ClientSampleId :

TP-4

Tot Ion:154 Resp: 1725326

Ion Ratio Lower Upper

154 100

153 115.5 90.5 135.7

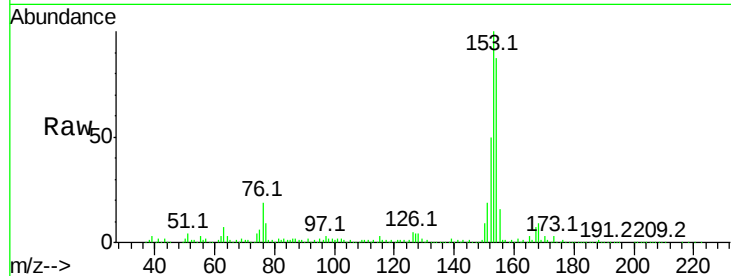
152 57.7 43.6 65.4

Manual Integrations

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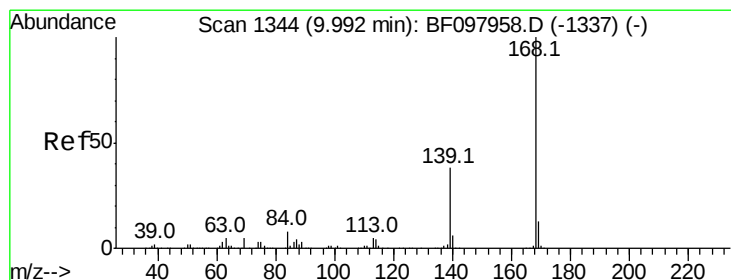
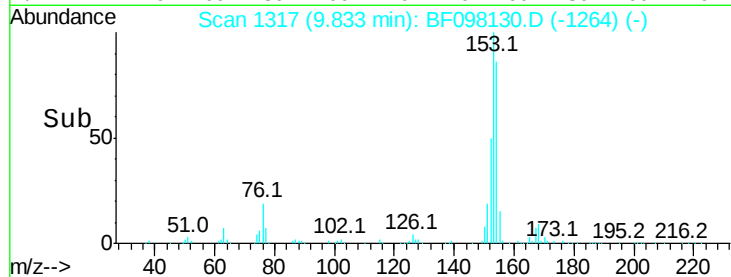
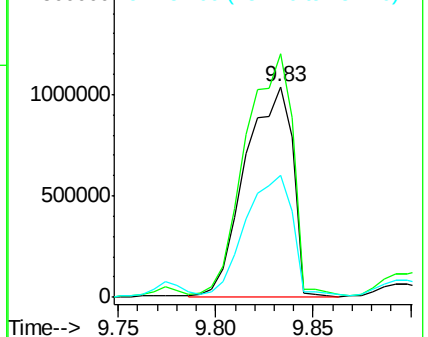
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 125.123 ng

RT: 10.00 min Scan# 1346

Delta R.T. 0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

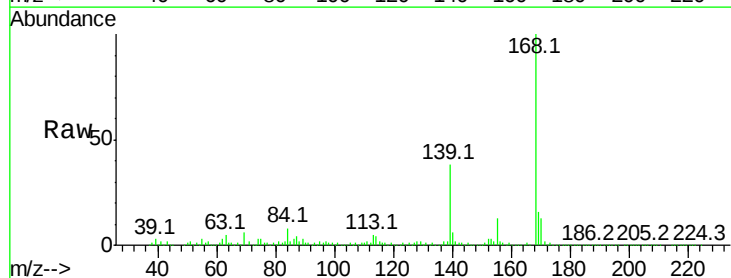
Tgt Ion:168 Resp: 1698605

Ion Ratio Lower Upper

168 100

139 38.3 30.6 45.8

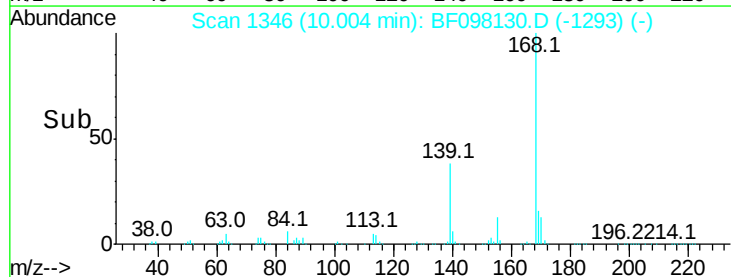
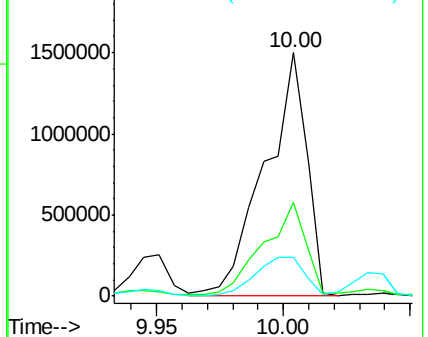
169 15.9 10.8 16.2

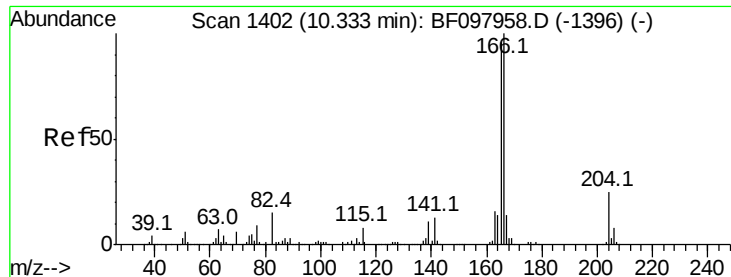


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





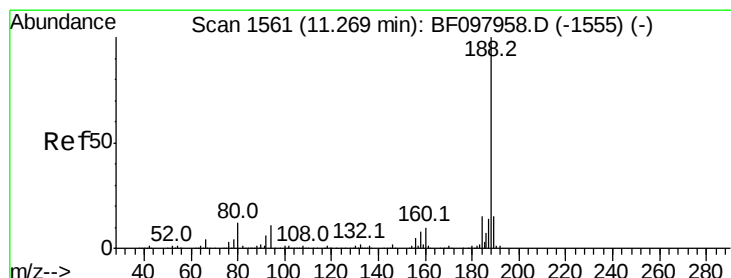
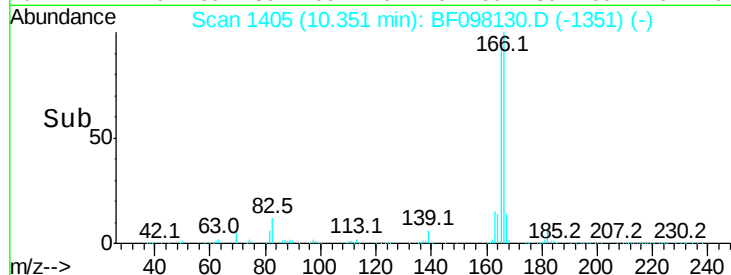
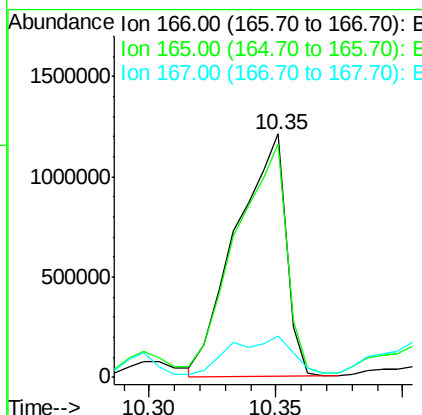
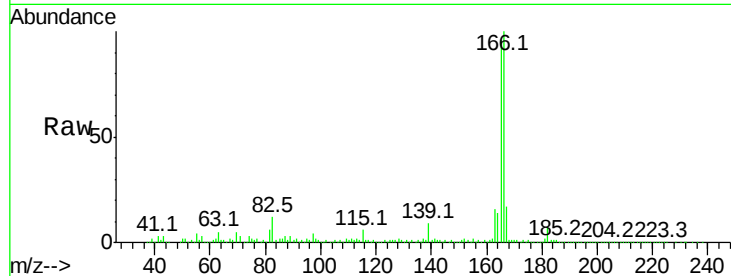
#57
Fluorene
 Concen: 157.515 ng
 RT: 10.35 min Scan# 1405
 Delta R.T. 0.02 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.9	78.8	118.2
167	16.8	10.6	16.0#

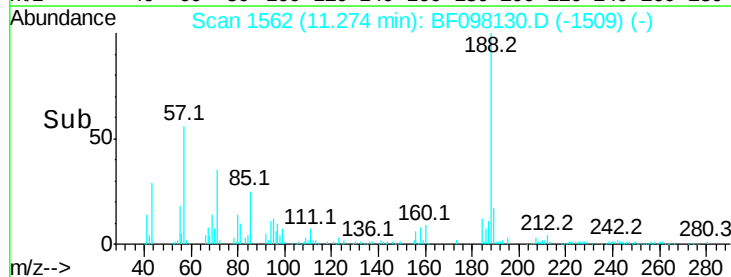
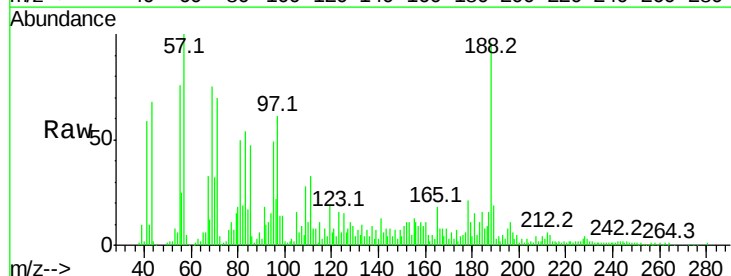
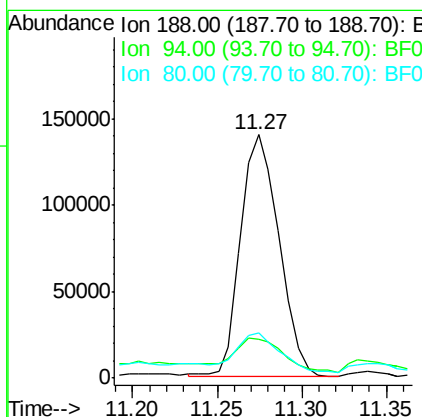
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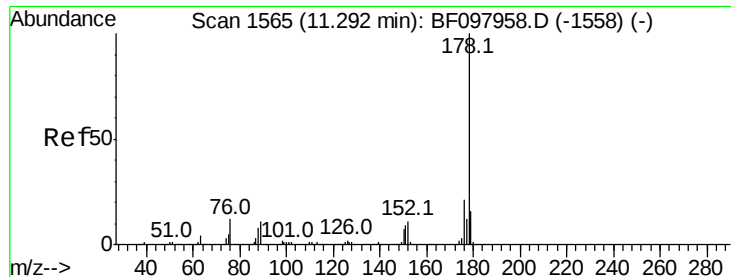
Sohil
 8/30/2017 6:45:10 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: BF098130.D
 Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	16.0	9.4	14.2#
80	18.5	10.2	15.2#





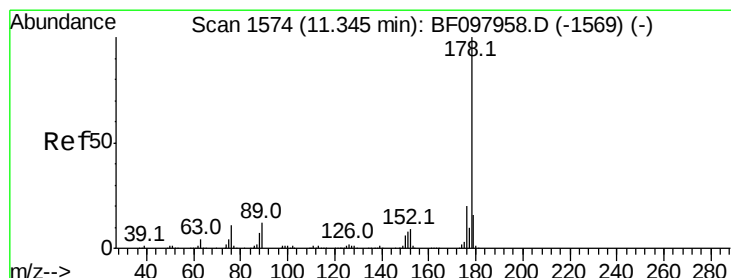
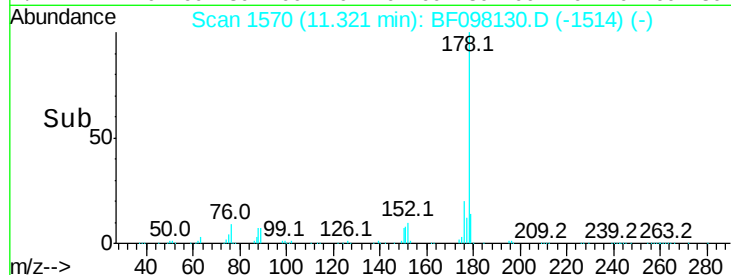
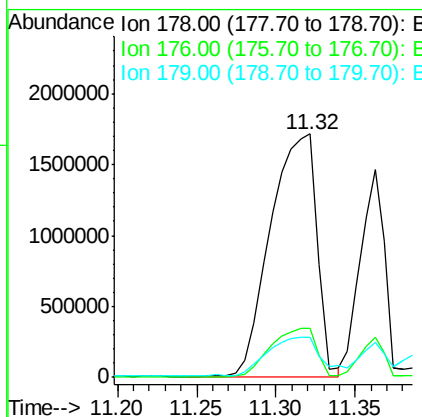
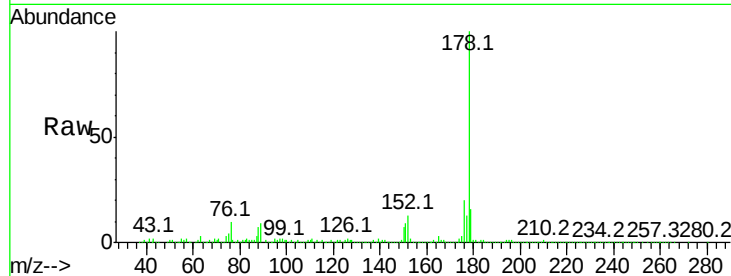
#70
Phenanthrene
Concen: 293.965 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.03 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion:178 Resp: 3466067
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.4
179 16.4 12.6 19.0

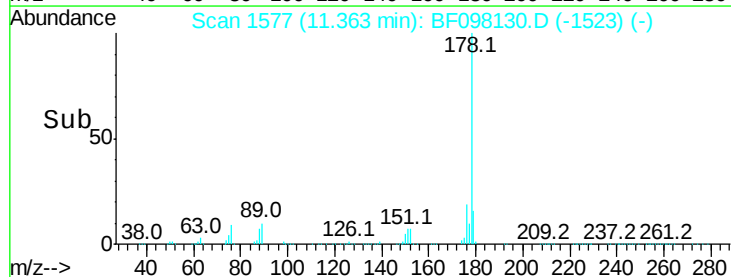
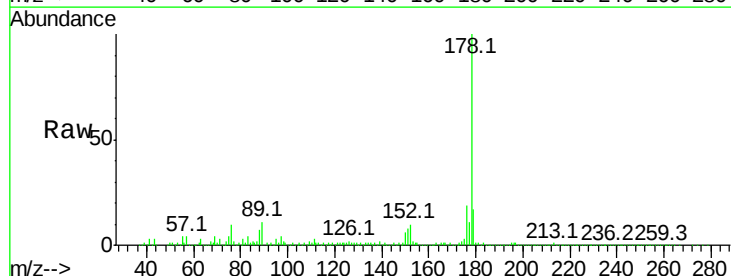
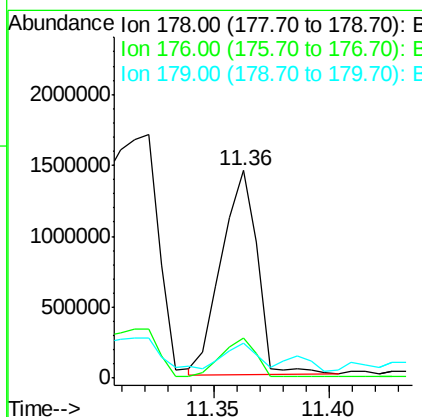
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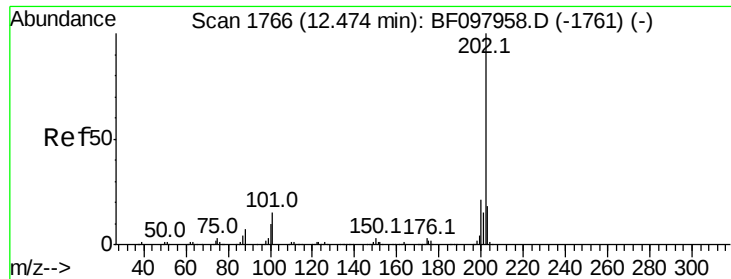
Sohil
8/30/2017 6:45:10 PM



#71
Anthracene
Concen: 130.009 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.02 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion:178 Resp: 1554772
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 16.5 12.7 19.1





#74

Fluoranthene

Concen: 131.600 ng

RT: 12.49 min Scan# 1769

Delta R.T. 0.02 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Instrument :

BNA_F

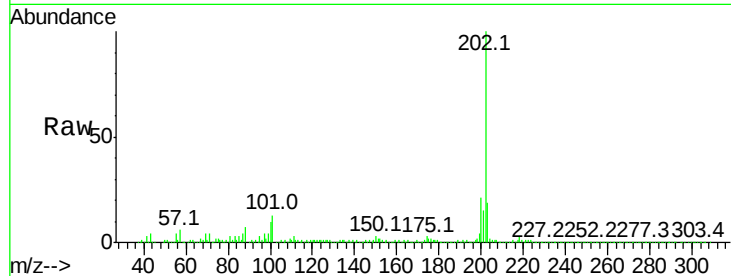
ClientSampled :

TP-4

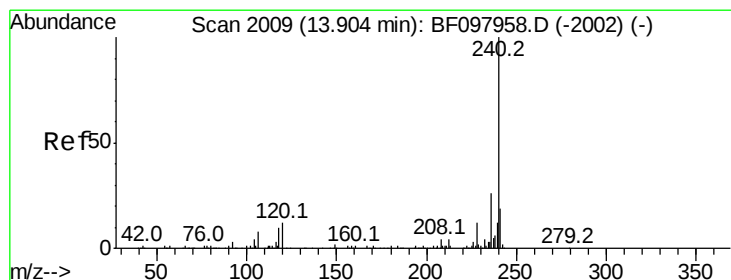
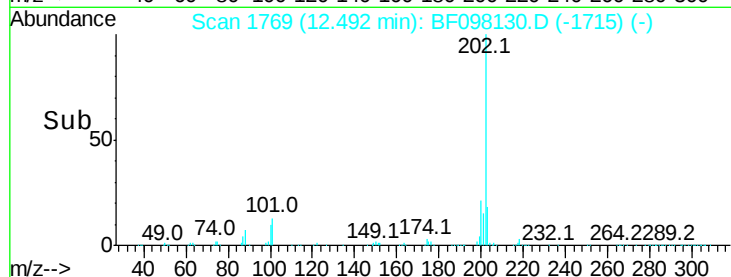
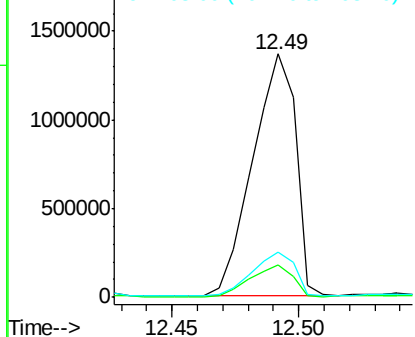
Tot Ion:	202	Resp:	1619575
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	33.2
203	18.5	0.0	38.1

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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2009

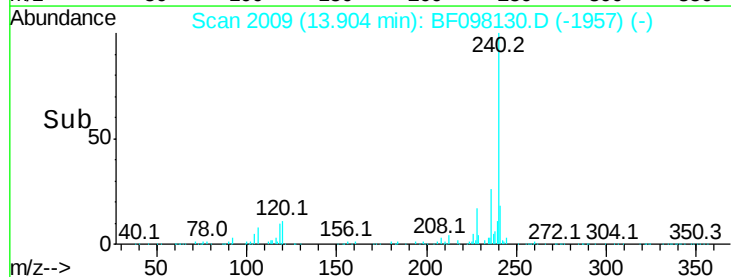
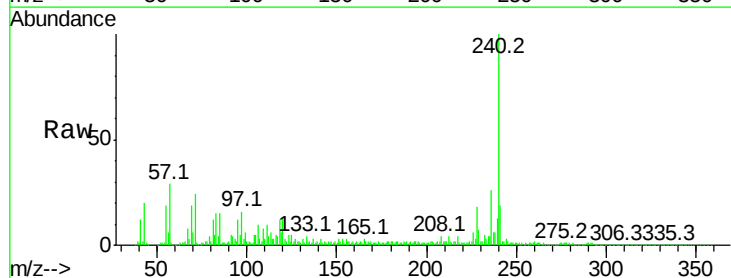
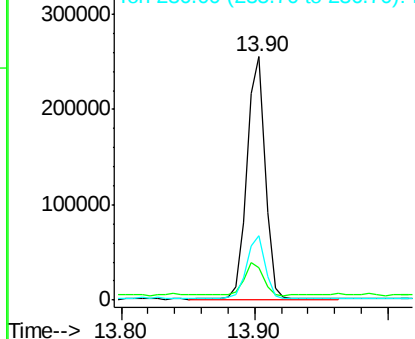
Delta R.T. 0.01 min

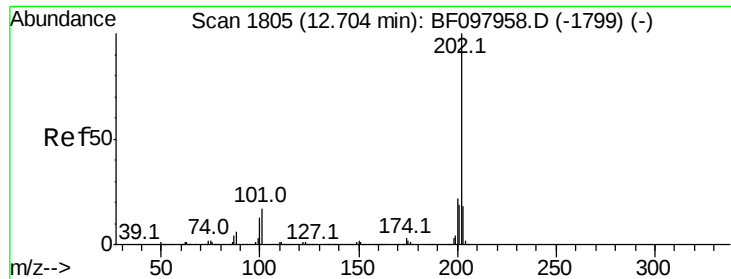
Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Tgt Ion:	240	Resp:	238922
Ion Ratio	Lower	Upper	
240	100		
120	13.3	5.8	8.8#
236	26.5	20.5	30.7

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





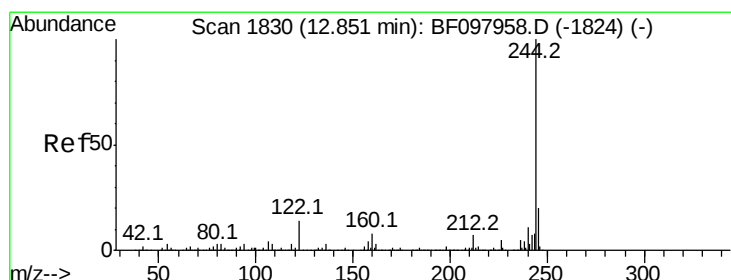
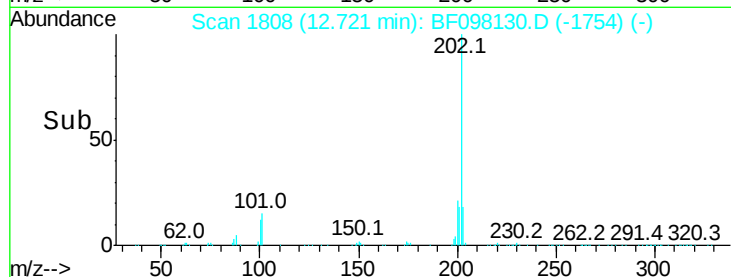
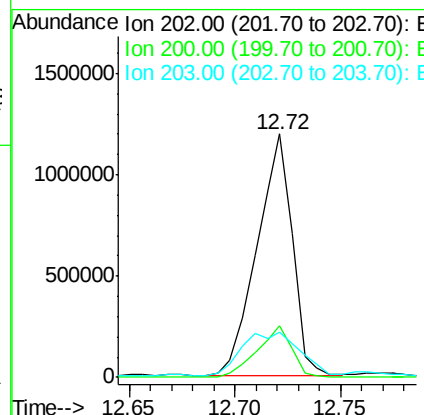
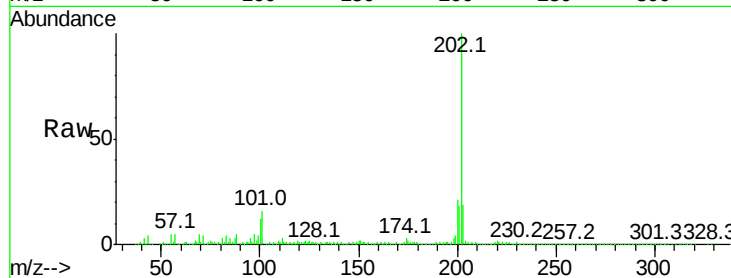
#77
Pvrene
Concen: 70.930 ng
RT: 12.72 min Scan# 1808
Delta R.T. 0.02 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4
203	18.7	14.4	21.6

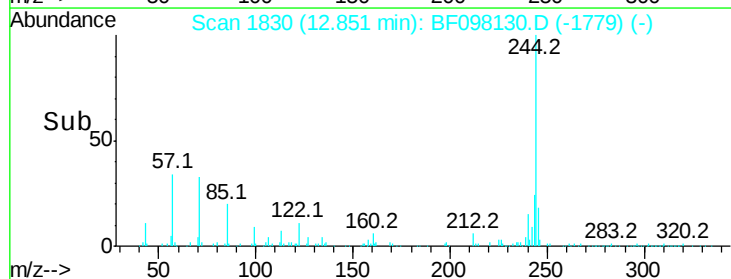
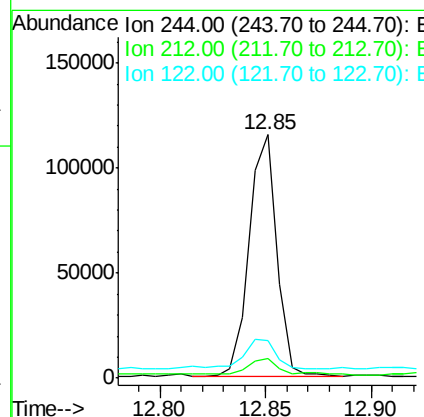
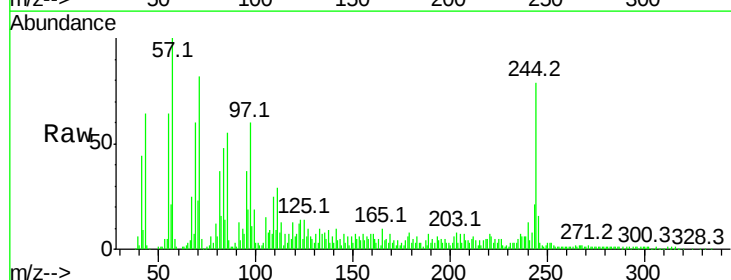
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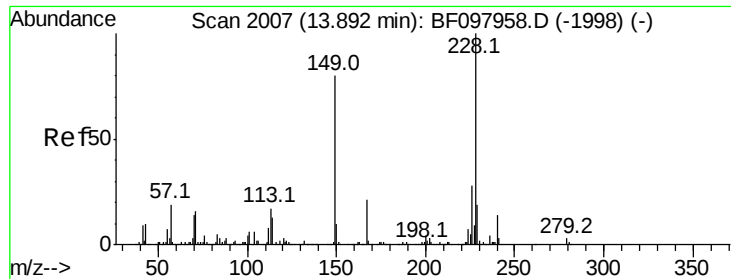
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#78
Terphenyl-d14
Concen: 9.117 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.00 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.0	9.0
122	15.3	10.3	15.5





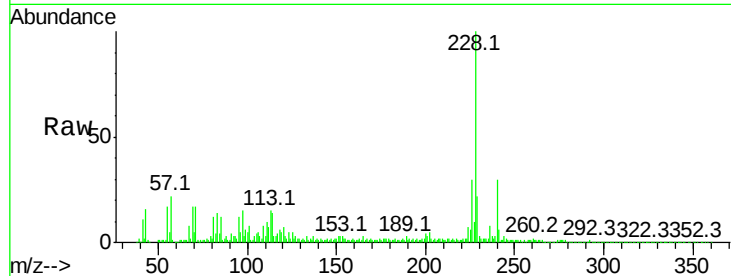
#80
Benzo(a)anthracene
Concen: 20.004 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampled :
TP-4

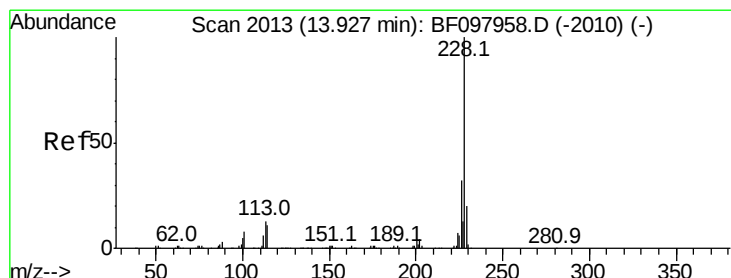
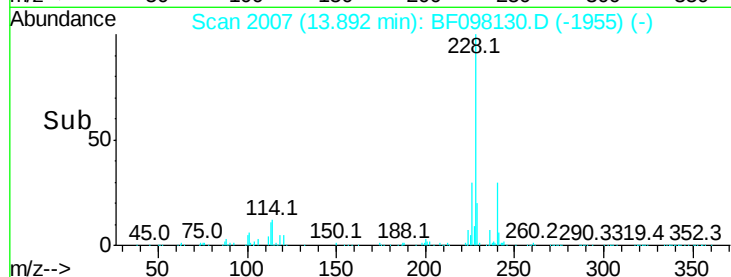
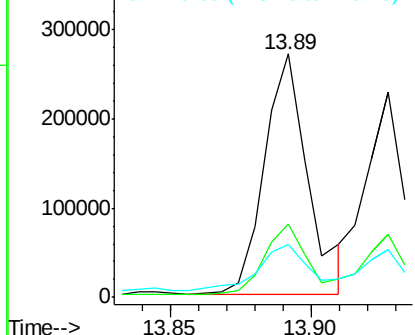
Tot Ion	Ratio	Resp	Lower	Upper
228	100	286450		
226	30.4		22.6	33.8
229	21.9		16.3	24.5

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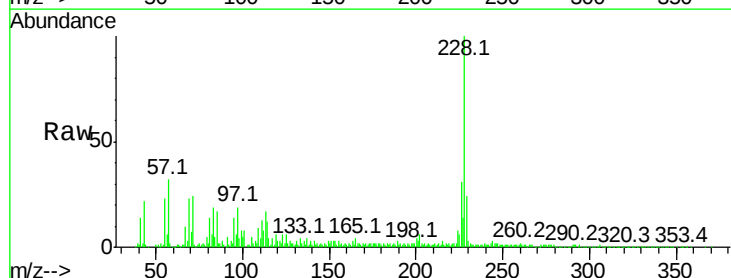


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

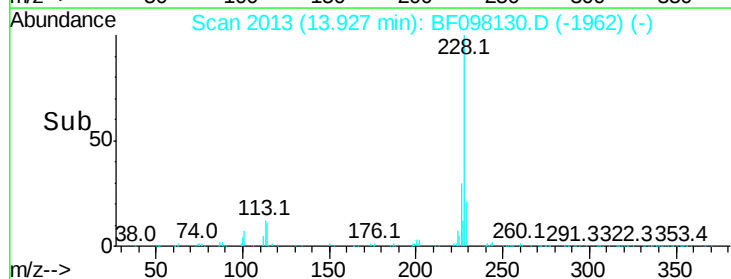
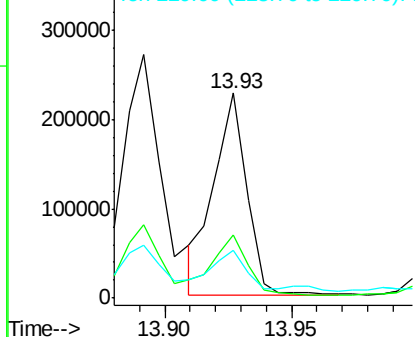


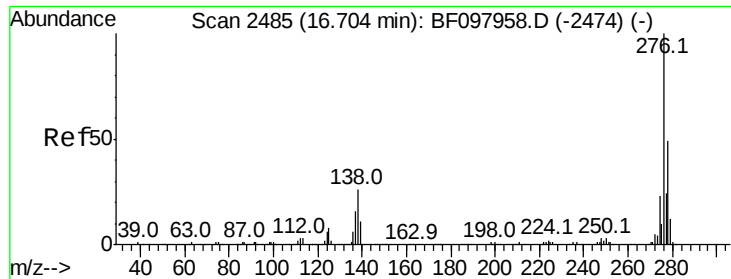
#82
Chrysene
Concen: 14.451 ng
RT: 13.93 min Scan# 2013
Delta R.T. -0.00 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	205853		
226	30.9		24.9	37.3
229	23.6		15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





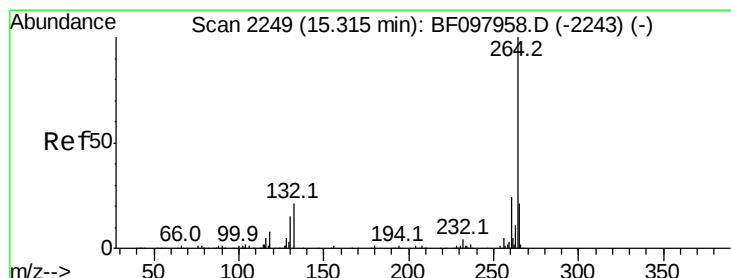
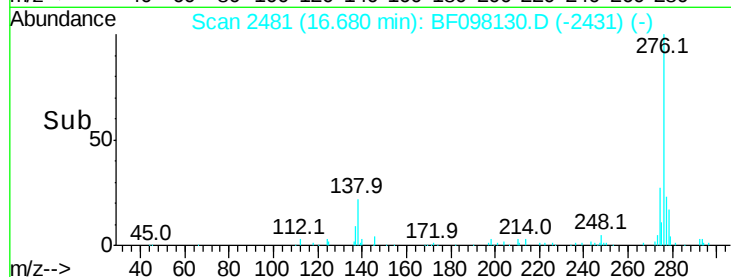
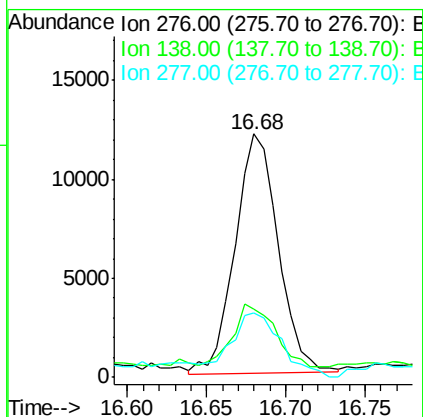
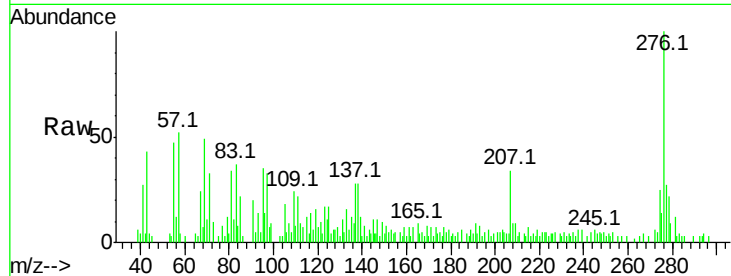
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.191 ng
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.2	27.8	41.6#
277	31.9	20.2	30.4#

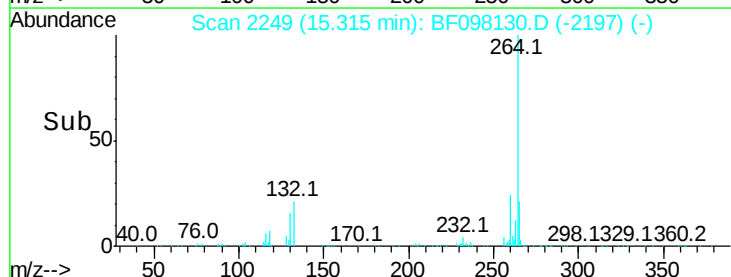
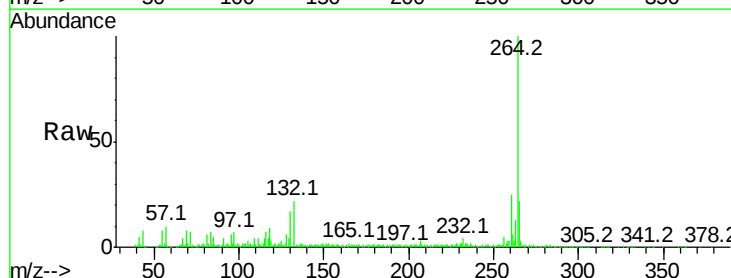
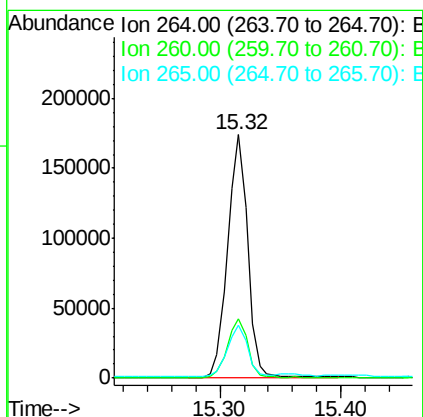
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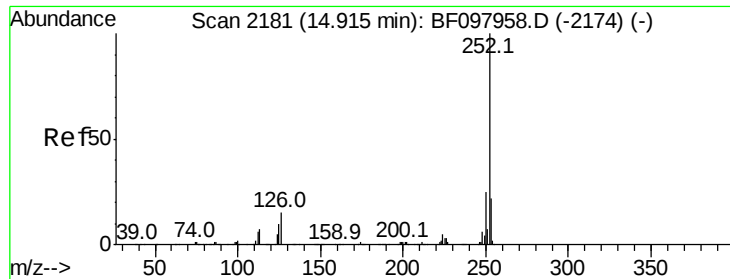
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	21.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 9.186 ng m

RT: 14.91 min Scan# 2180

Delta R.T. -0.00 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Instrument :

BNA_F

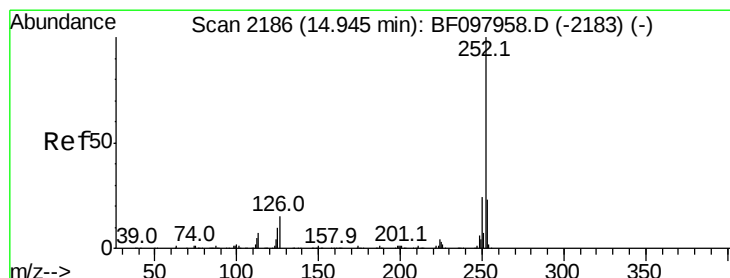
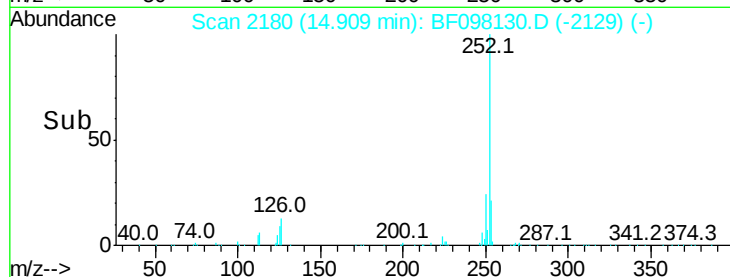
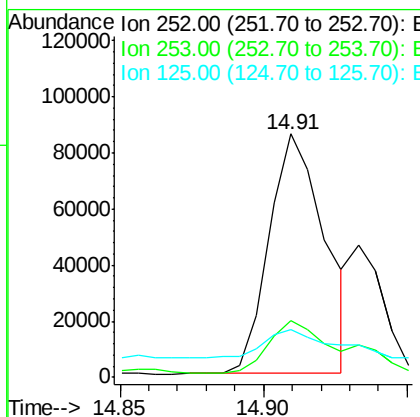
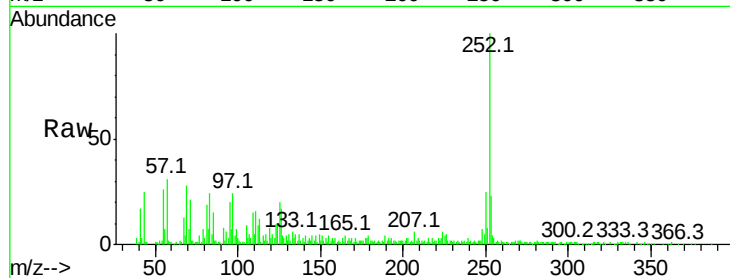
ClientSampled :

TP-4

Tot Ion:	252	Resp:	115388
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.1	27.1
125	19.8	9.8	14.8#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 3.188 ng m

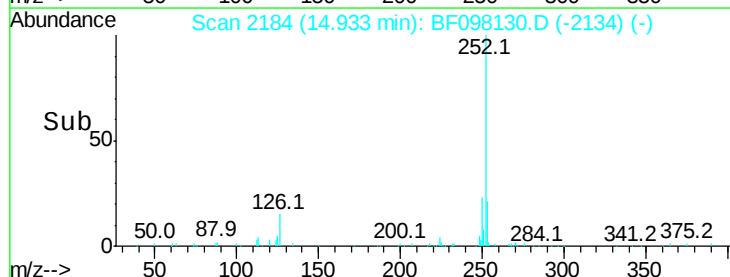
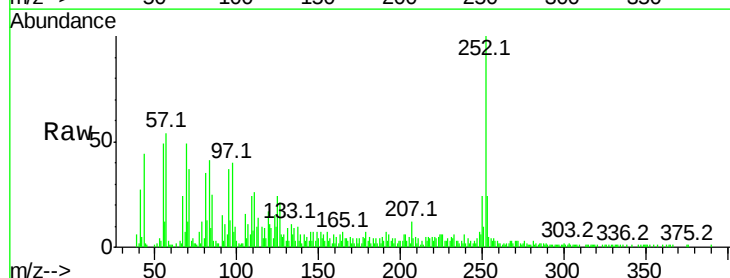
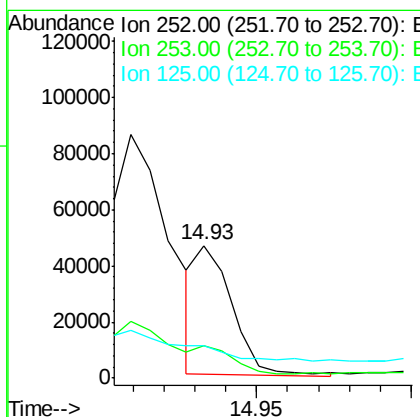
RT: 14.93 min Scan# 2184

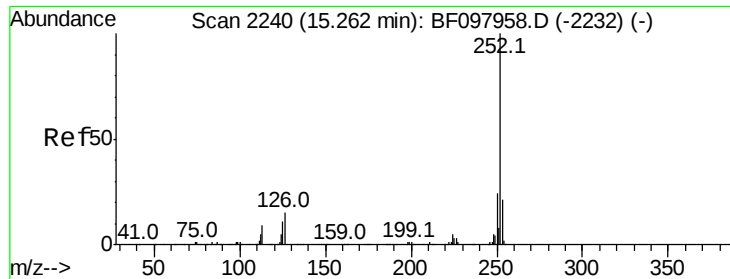
Delta R.T. -0.01 min

Lab File: BF098130.D

Acq: 30 Aug 2017 00:18

Tgt Ion:	252	Resp:	37619
Ion Ratio	Lower	Upper	
252	100		
253	24.4	18.4	27.6
125	24.1	13.1	19.7#





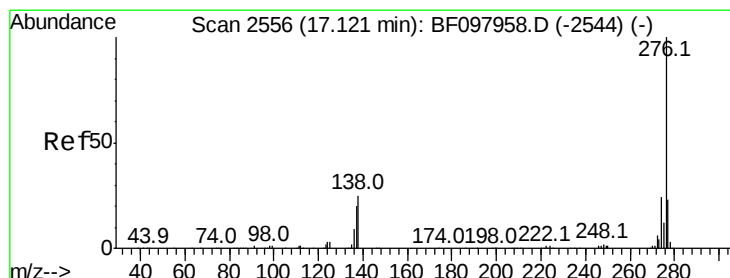
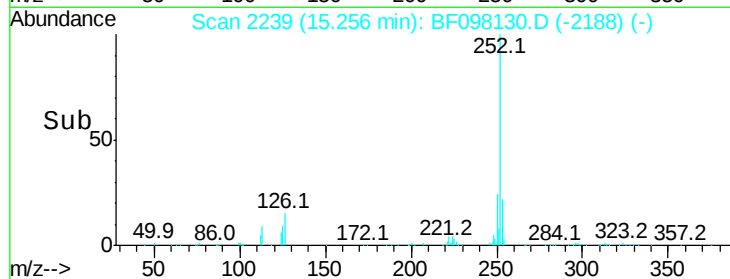
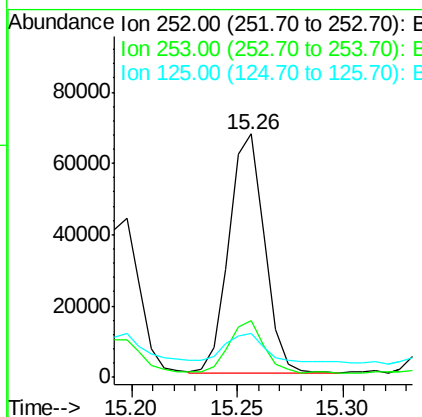
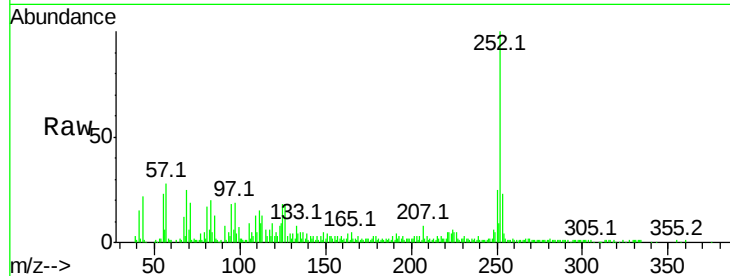
#89
Benzo(a)pyrene
Concen: 7.046 ng
RT: 15.26 min Scan# 2239
Delta R.T. -0.00 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	18.1	11.0	16.4

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8/30/2017 6:45:10 PM



#91
Benzo(g,h,i)perylene
Concen: 2.352 ng
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098130.D
Acq: 30 Aug 2017 00:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.6	28.0
138	25.6	25.4	38.0

