

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091317\
 Data File : BF098494.D
 Acq On : 13 Sep 2017 17:21
 Operator : SJ/JU
 Sample : I5208-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-A

Manual Integrations
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 9/14/2017 5:52:32 PM

Quant Time: Sep 14 06:02:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	171772	20.00	ng	-0.02
21) Naphthalene-d8	7.94	136	724714	20.00	ng	-0.01
38) Acenaphthene-d10	9.69	164	326031	20.00	ng	-0.02
63) Phenanthrene-d10	11.17	188	566064	20.00	ng	-0.02
75) Chrysene-d12	13.80	240	340922	20.00	ng	-0.01
86) Perylene-d12	15.21	264	360412	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	245273	21.11	ng	-0.02
7) Phenol-d6	6.30	99	317739	21.54	ng	-0.02
23) Nitrobenzene-d5	7.22	82	184915	14.22	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	54660	25.12	ng	-0.02
44) 2-Fluorobiphenyl	9.01	172	332714	17.30	ng	-0.02
78) Terphenyl-d14	12.75	244	228357	14.46	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.96	128	1054531	29.434	ng	100
37) 2-Methylnaphthalene	8.65	142	452459	20.849	ng	98
45) 1,1'-Biphenyl	9.11	154	87740	3.007	ng	97
48) Acenaphthylene	9.55	152	404386	13.050	ng	98
51) Acenaphthene	9.72	154	180565	9.167	ng	96
54) Dibenzofuran	9.89	168	402257	15.502	ng	97
57) Fluorene	10.23	166	692958	32.263	ng	100
70) Phenanthrene	11.20	178	3129260	104.278	ng	100
71) Anthracene	11.25	178	838437	27.213	ng	98
72) Carbazole	11.40	167	351117	12.228	ng	98
74) Fluoranthene	12.39	202	2206191	73.439	ng	99
77) Pyrene	12.62	202	1932718	71.864	ng	100
80) Benzo(a)anthracene	13.80	228	804639	40.257	ng	94
82) Chrysene	13.83	228	739079	36.581	ng	98
85) Indeno(1,2,3-cd)pyrene	16.55	276	314730	22.203	ng	95
87) Benzo(b)fluoranthene	14.82	252	893722m	39.437	ng	
88) Benzo(k)fluoranthene	14.84	252	221068m	10.449	ng	
89) Benzo(a)pyrene	15.15	252	634536	31.429	ng	97
90) Dibenzo(a,h)anthracene	16.55	278	82218m	5.598	ng	
91) Benzo(a,h,i)perylene	16.95	276	286932	19.424	ng	98

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

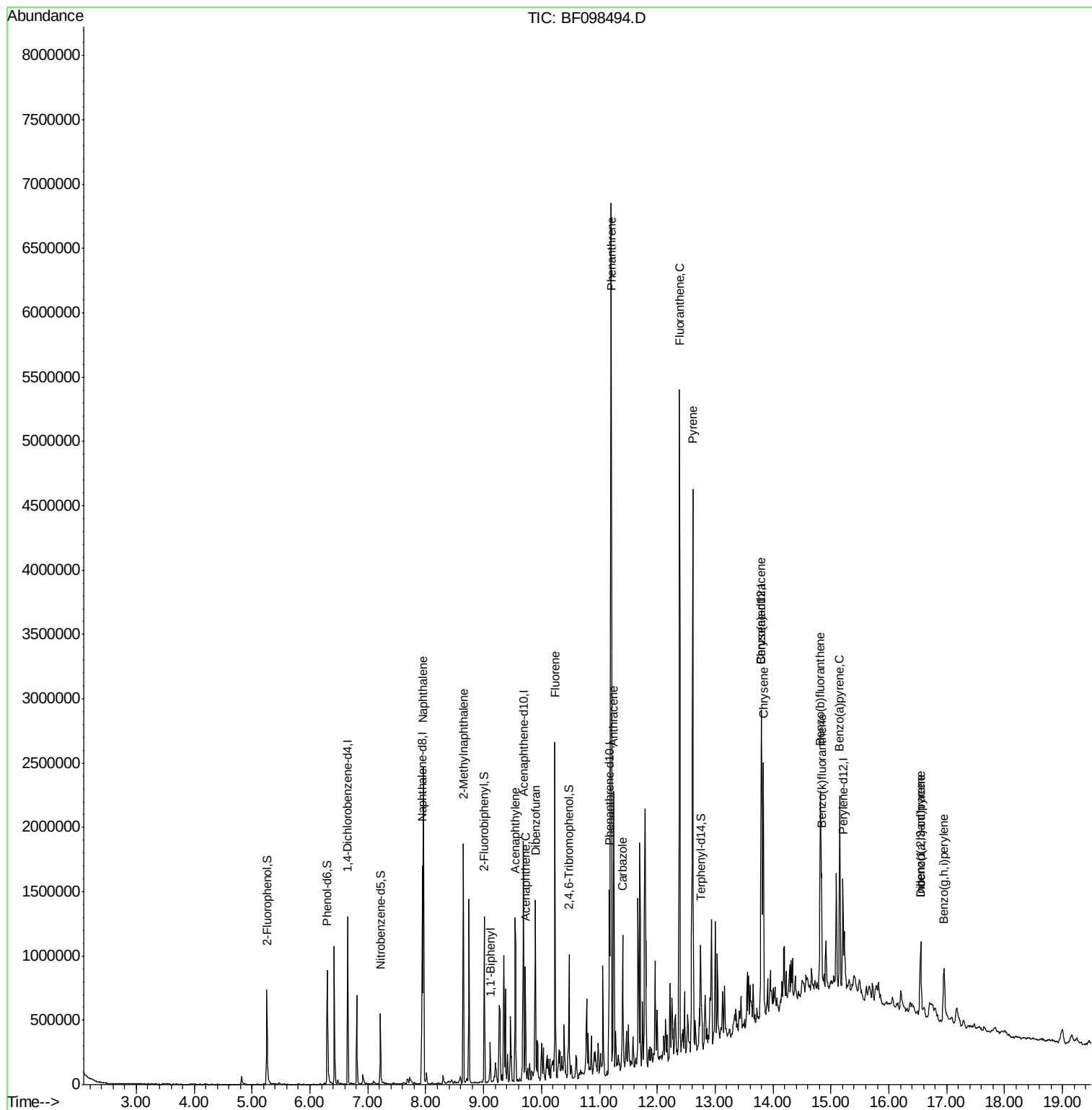
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
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Misc :
ALS Vial : 12 Sample Multiplier: 1

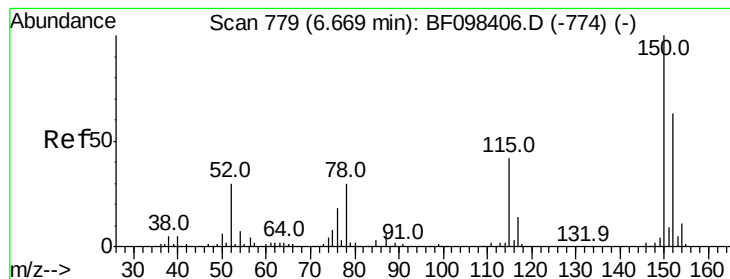
Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

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Quant Time: Sep 14 06:02:23 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
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#1

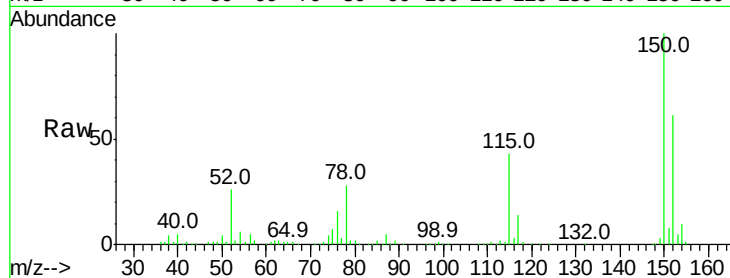
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 776
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.6	126.2	189.2
115	69.7	52.2	78.2

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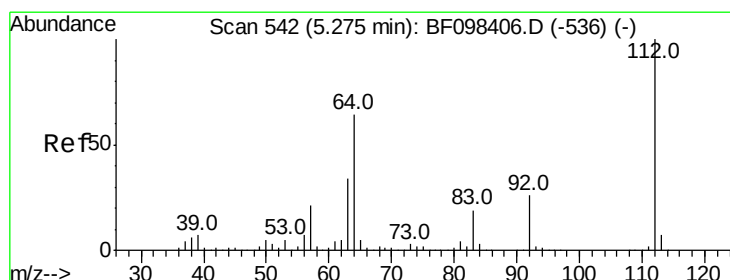
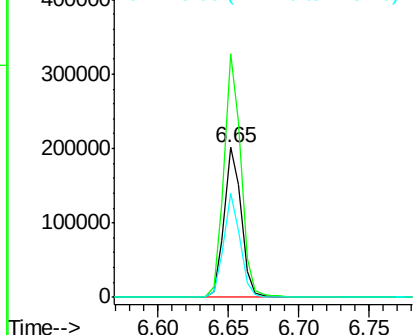
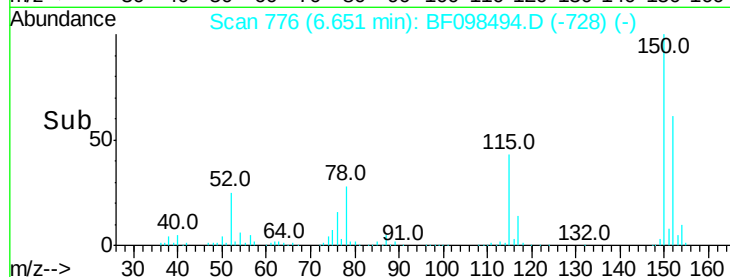


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

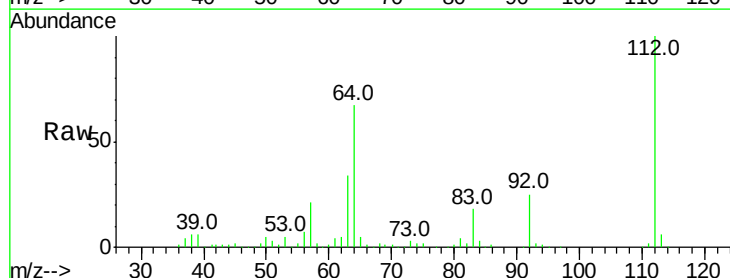
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.112 ng
RT: 5.25 min Scan# 538
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.9	46.0	69.0
63	34.3	23.4	35.0

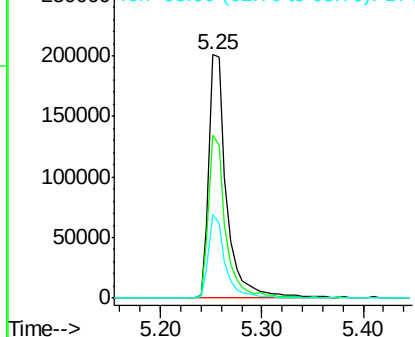
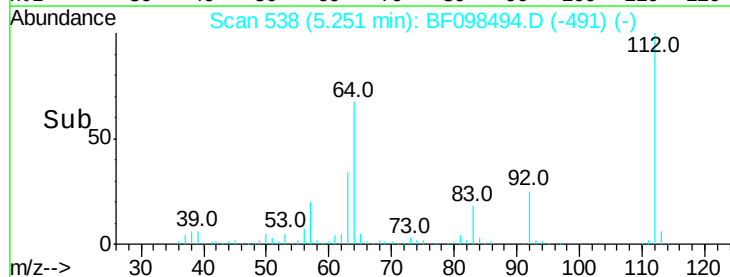


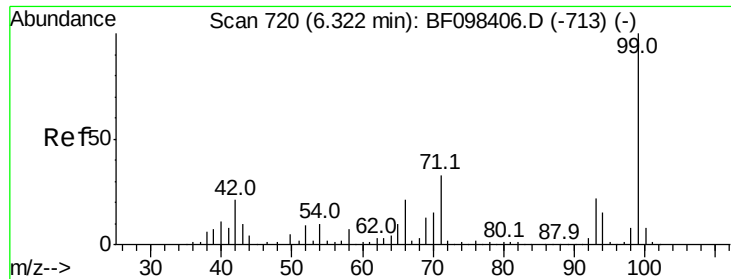
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 21.541 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.02 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

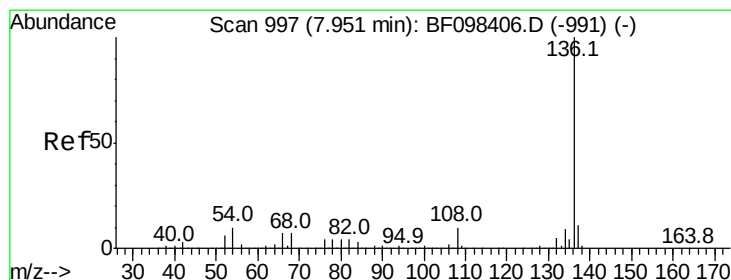
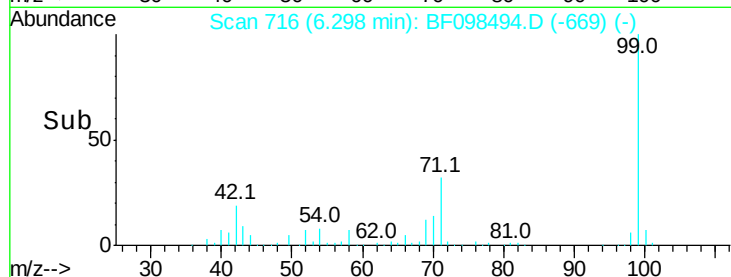
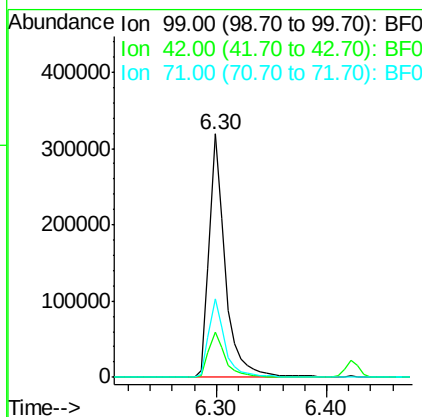
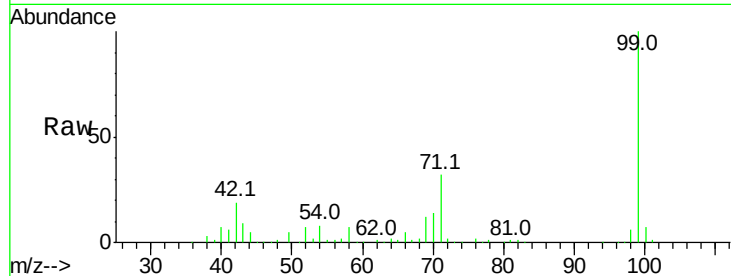
ClientSampleId :

CL-02-091117-A

Tot Ion:	99	Resp:	317739
Ion Ratio	Lower	Upper	
99	100		
42	18.6	13.5	20.3
71	32.1	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

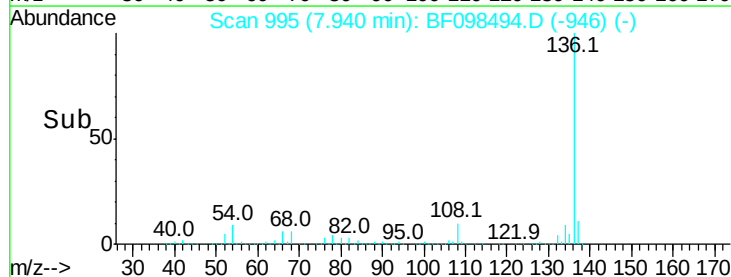
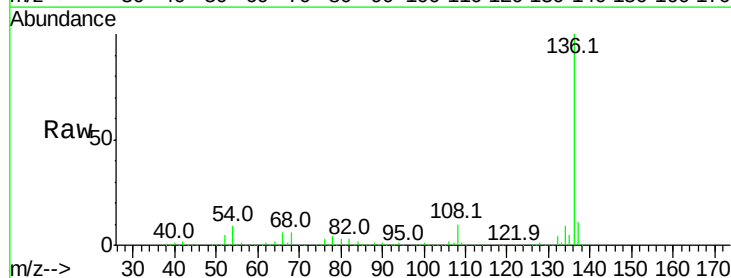
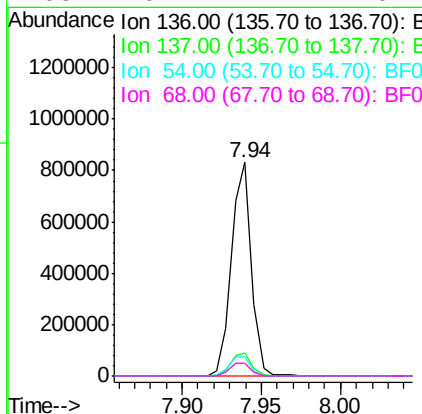
RT: 7.94 min Scan# 995

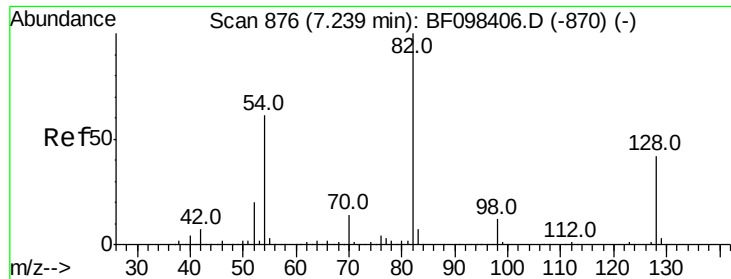
Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Tgt Ion:	136	Resp:	724714
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	9.2	4.9	7.3#
68	6.2	4.1	6.1#





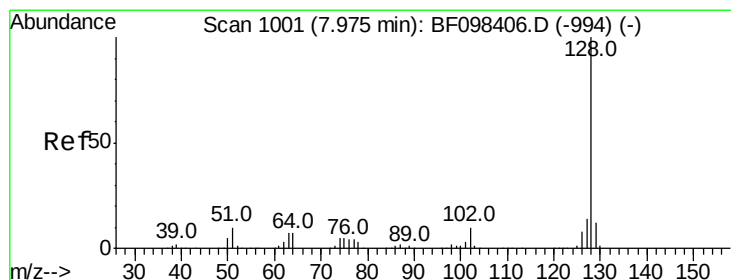
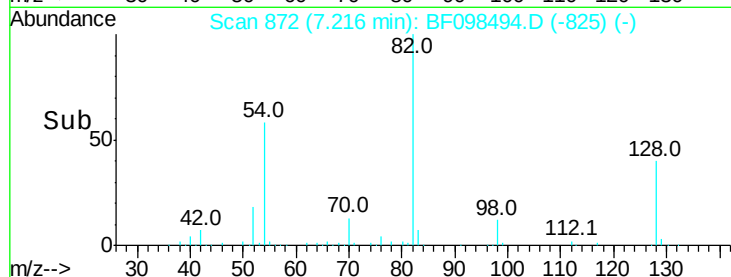
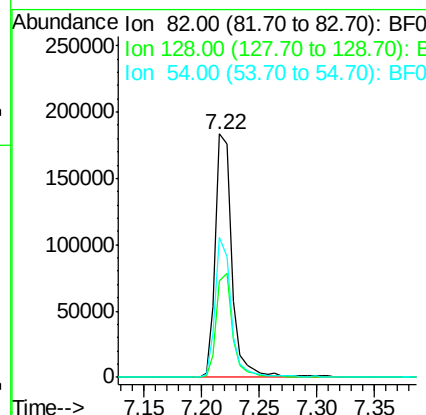
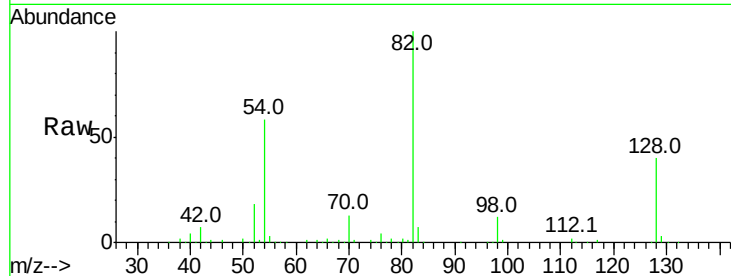
#23
Nitrobenzene-d5
Concen: 14.225 ng
RT: 7.22 min Scan# 872
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.8	34.0	51.0
54	57.7	42.2	63.2

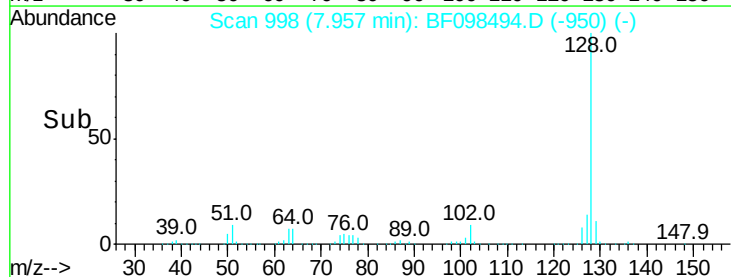
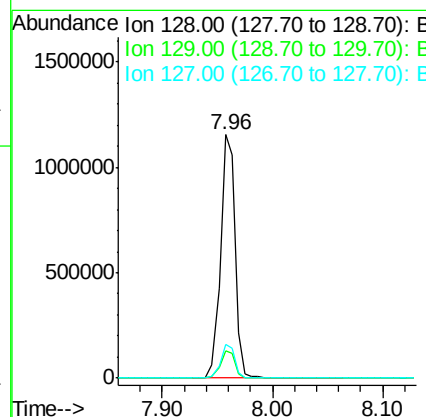
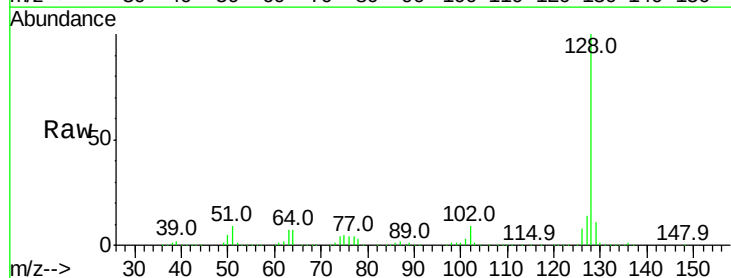
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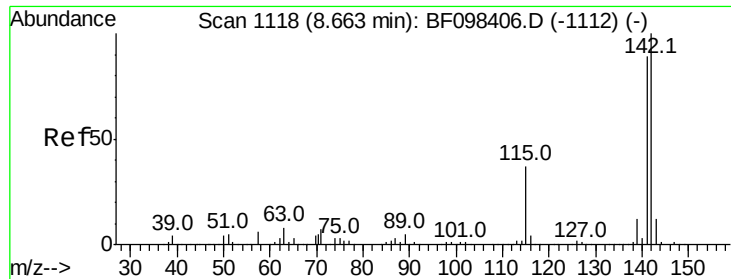
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#31
Naphthalene
Concen: 29.434 ng
RT: 7.96 min Scan# 998
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.6
127	13.6	10.8	16.2





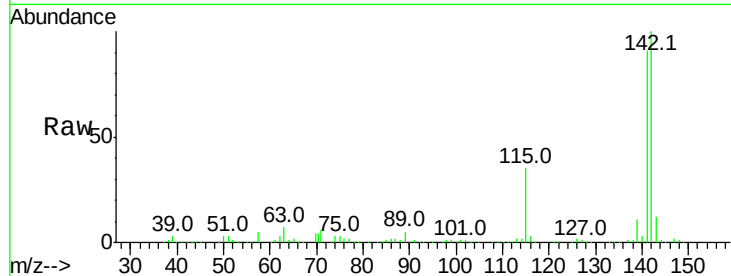
#37
2-Methylnaphthalene
Concen: 20.849 ng
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

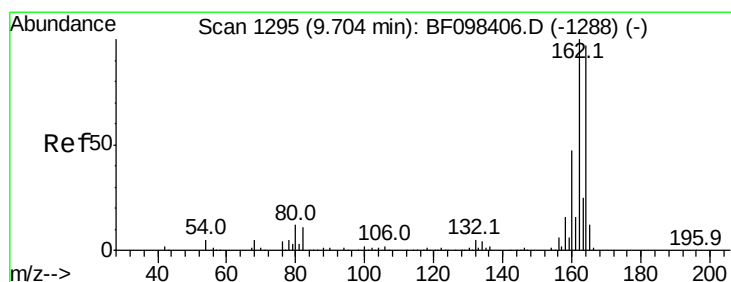
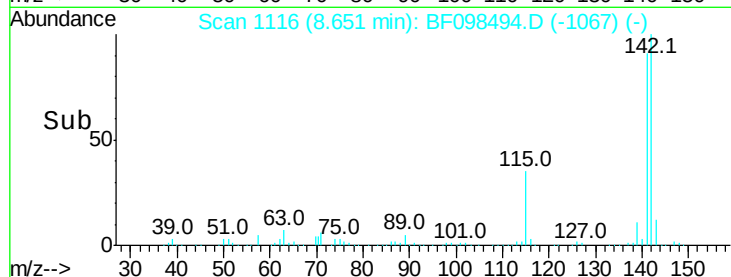
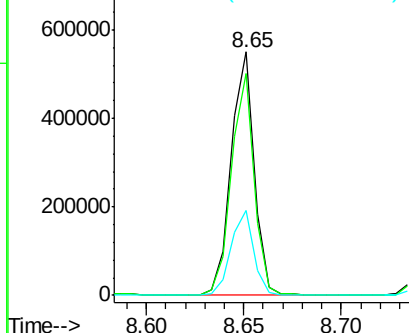
Tot Ion	Ratio	Resp	Lower	Upper
142	100	452459		
141	91.2	71.3	106.9	
115	34.7	27.1	40.7	

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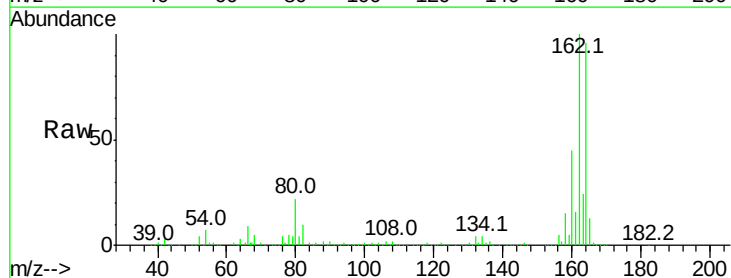


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

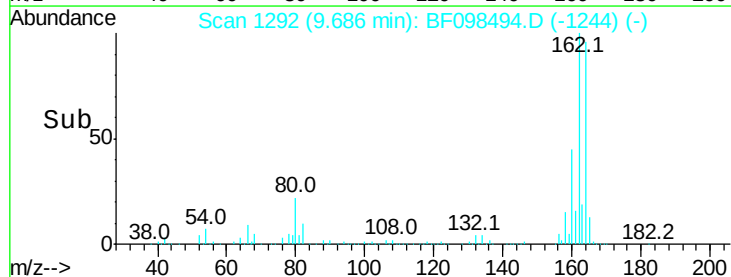
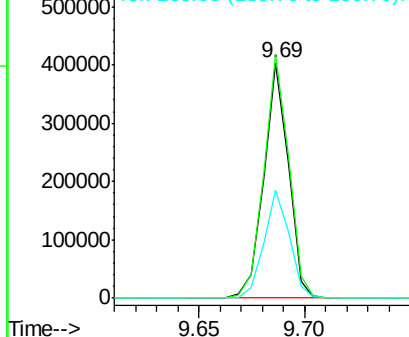


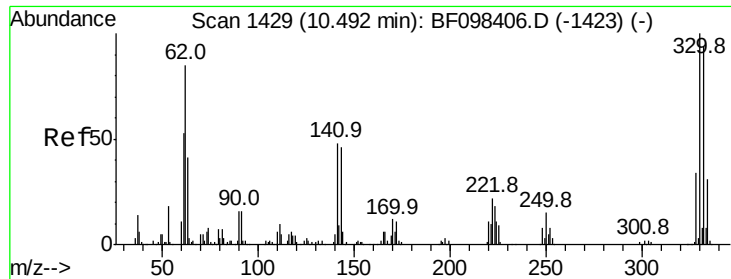
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	326031		
162	103.8	82.6	123.8	
160	46.2	36.2	54.2	



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





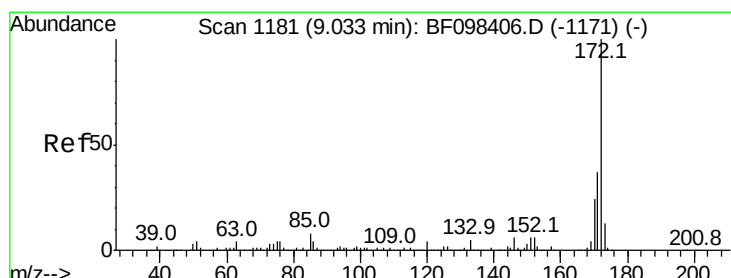
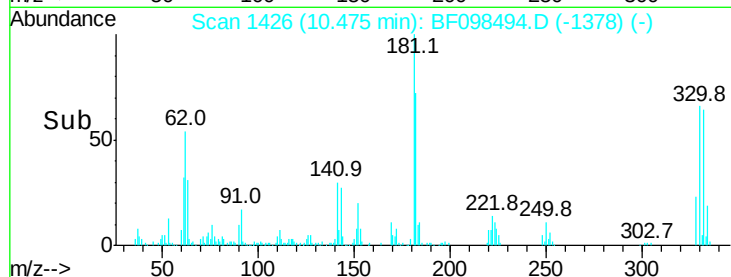
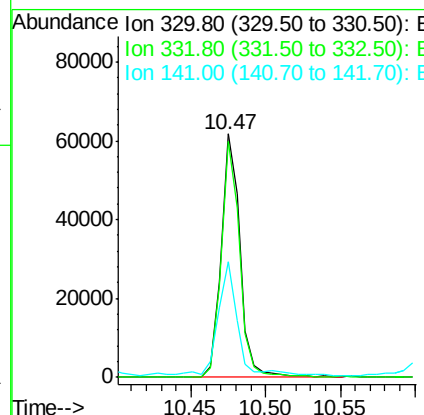
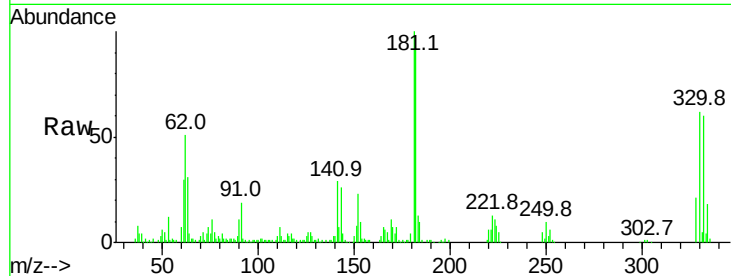
#41
 2,4,6-Tribromophenol
 Concen: 25.120 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-A

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.5	76.6	115.0	
141	44.0	31.4	47.2	

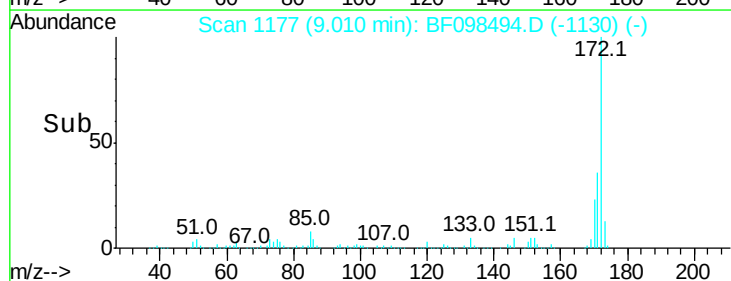
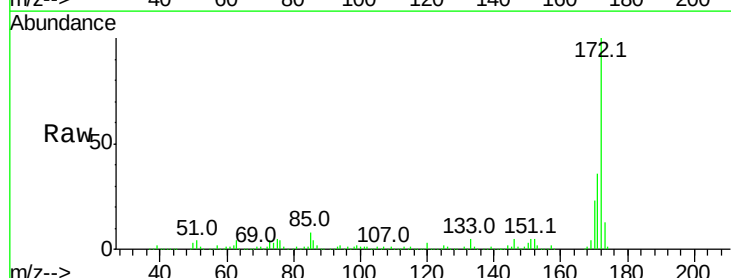
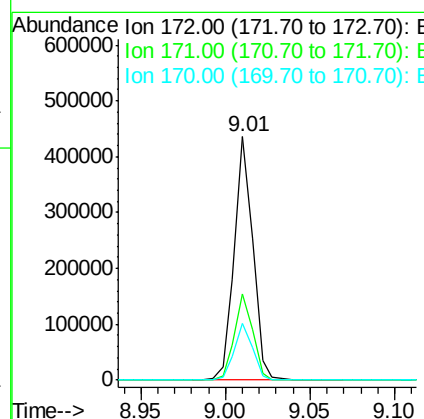
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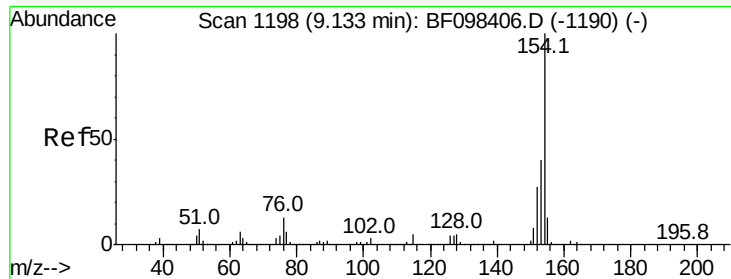
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#44
 2-Fluorobiphenyl
 Concen: 17.297 ng
 RT: 9.01 min Scan# 1177
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.6	44.4	
170	23.1	19.8	29.8	





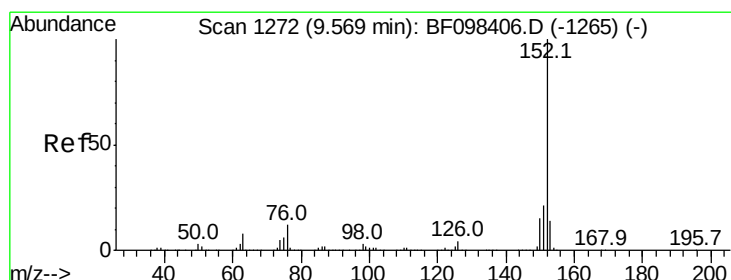
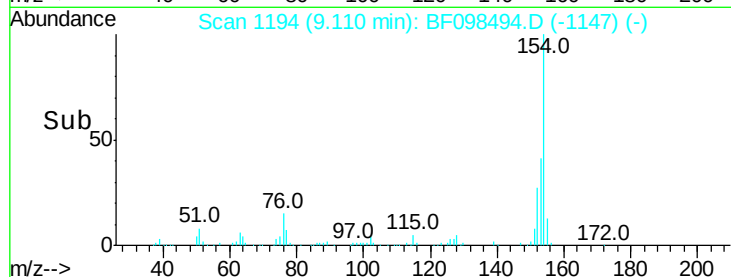
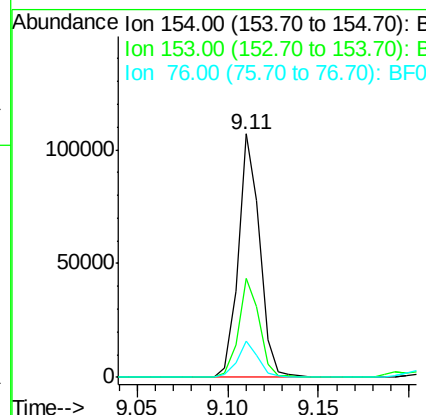
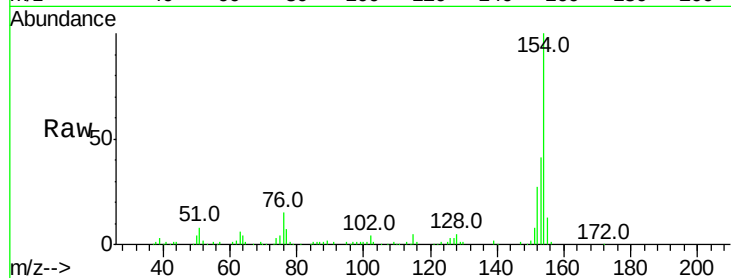
#45
 1,1'-Biphenyl
 Concen: 3.007 ng
 RT: 9.11 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.7	21.2	61.2
76	15.1	0.0	29.9

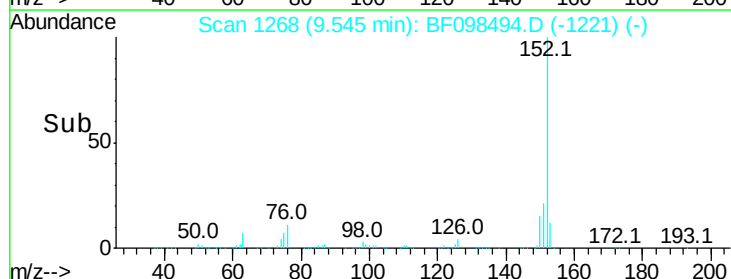
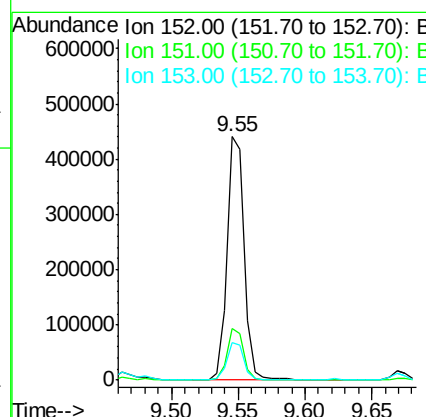
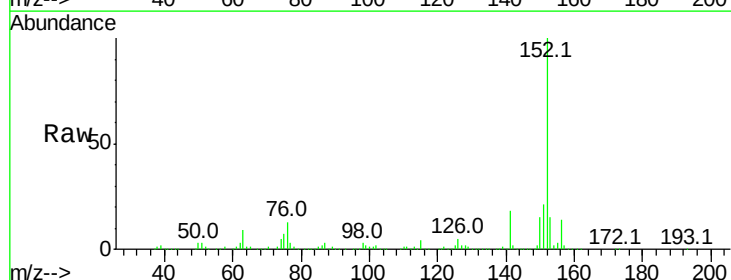
Manual Integrations
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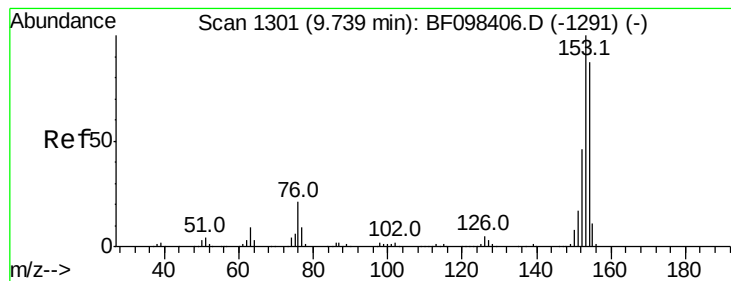
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#48
 Acenaphthylene
 Concen: 13.050 ng
 RT: 9.55 min Scan# 1268
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2
153	15.5	10.8	16.2





#51

Acenaphthene

Concen: 9.167 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

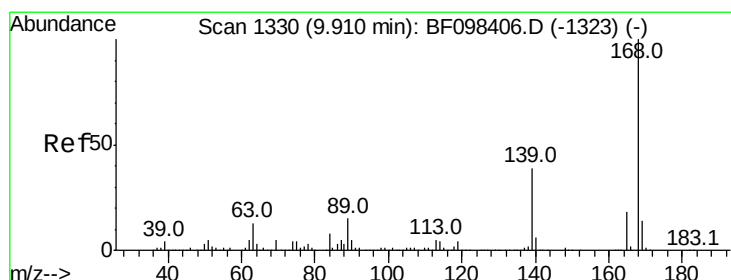
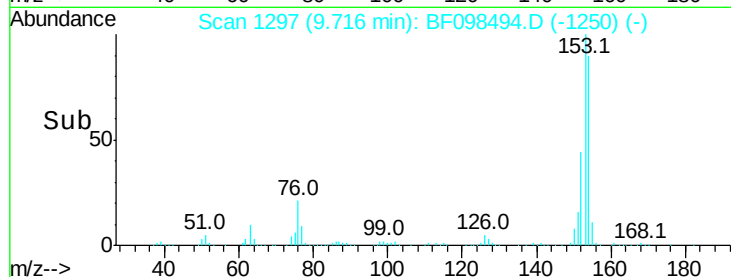
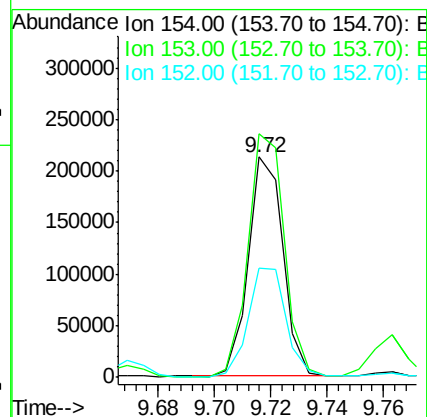
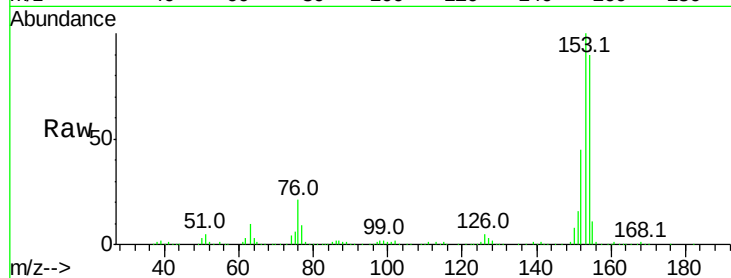
ClientSampleId :

CL-02-091117-A

Tot Ion:	154	Resp:	180565
Ion Ratio	Lower	Upper	
154	100		
153	110.5	90.5	135.7
152	49.3	43.6	65.4

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#54

Dibenzofuran

Concen: 15.502 ng

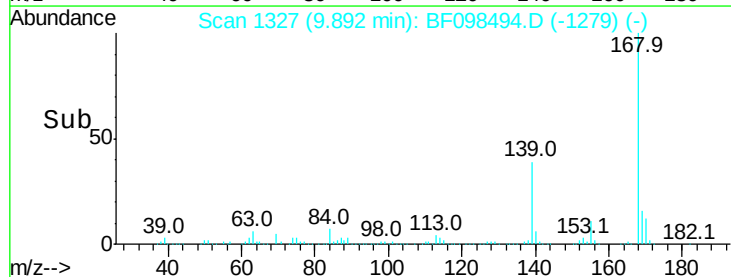
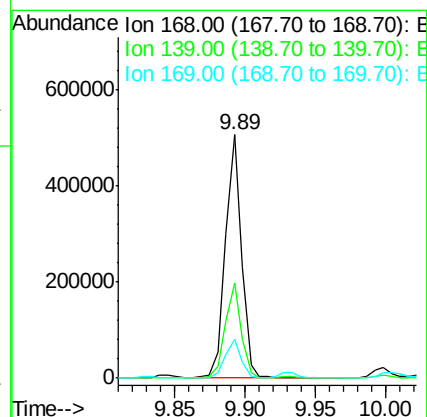
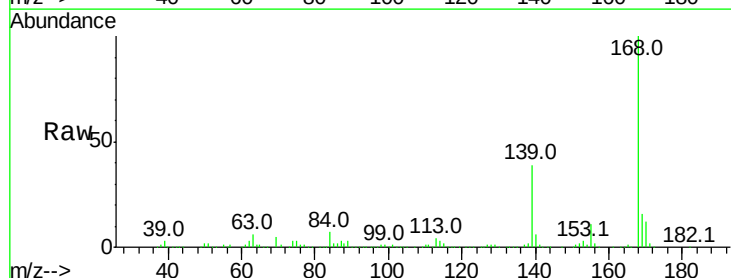
RT: 9.89 min Scan# 1327

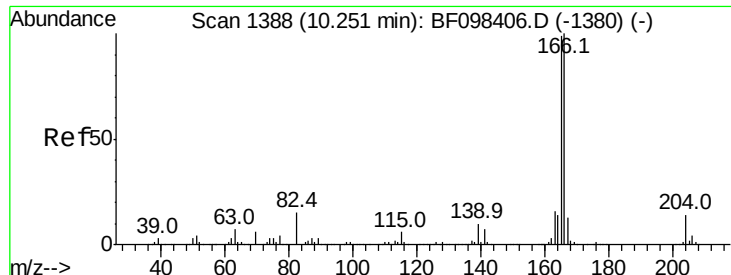
Delta R.T. -0.02 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Tgt Ion:	168	Resp:	402257
Ion Ratio	Lower	Upper	
168	100		
139	39.1	30.6	45.8
169	15.7	10.8	16.2





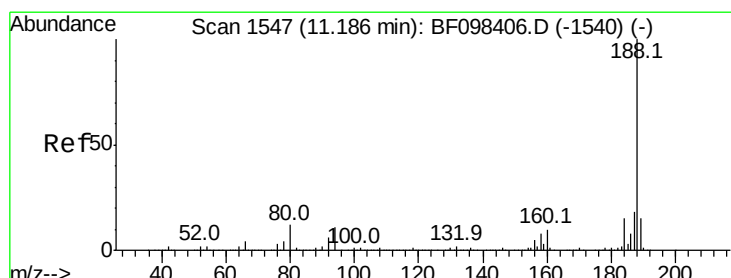
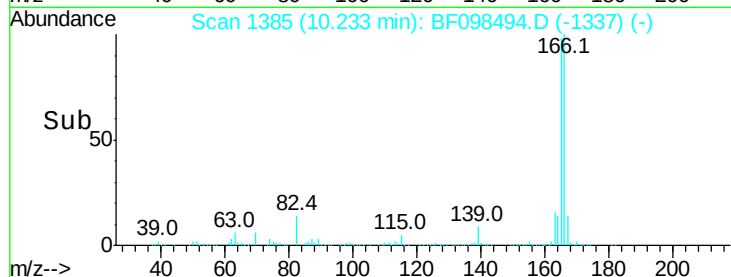
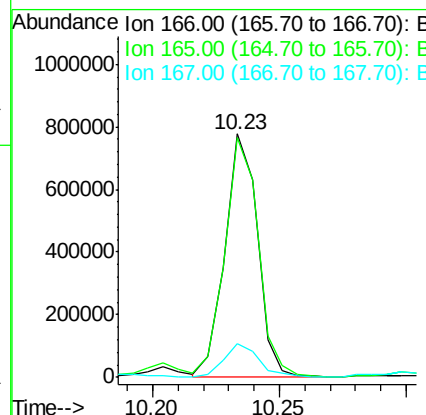
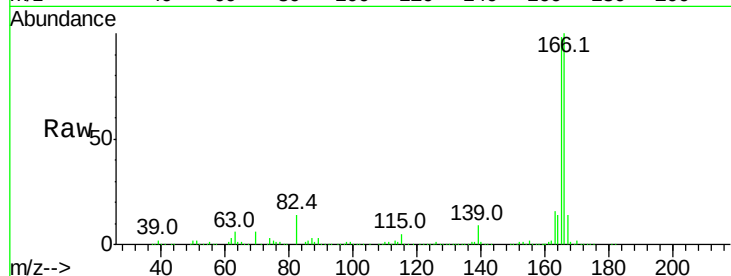
#57
Fluorene
 Concen: 32.263 ng
 RT: 10.23 min Scan# 1385
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	692958		
165	98.3		78.8	118.2
167	14.1		10.6	16.0

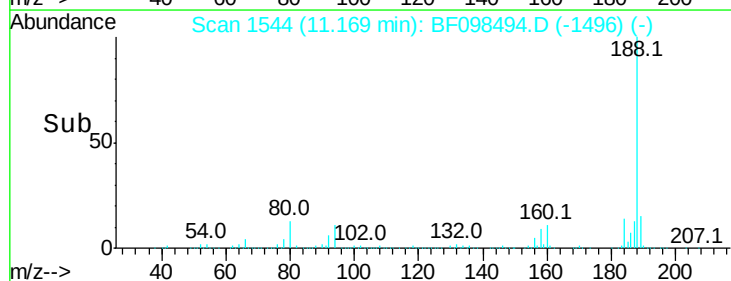
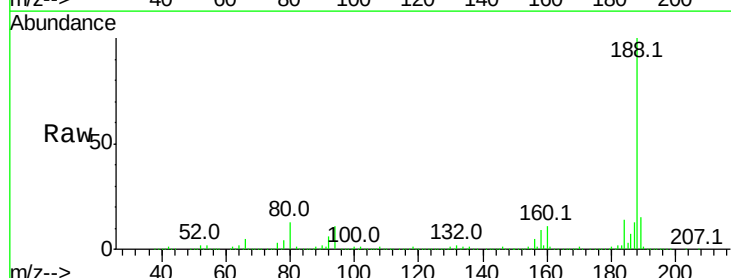
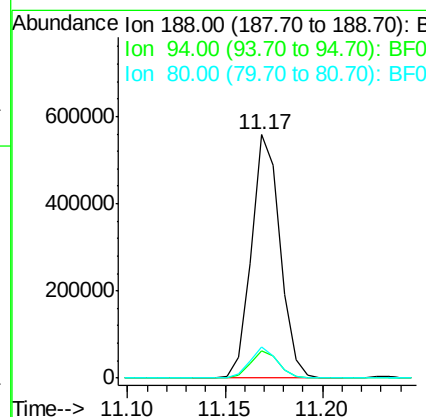
Manual Integrations
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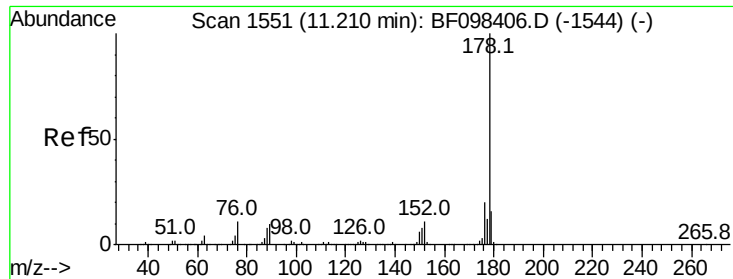
Sohil
 9/14/2017 5:52:32 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.17 min Scan# 1544
 Delta R.T. -0.02 min
 Lab File: BF098494.D
 Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	566064		
94	11.3		9.4	14.2
80	12.8		10.2	15.2





#70

Phenanthrene

Concen: 104.278 ng

RT: 11.20 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-A

Tot Ion:178 Resp: 3129260

Ion Ratio Lower Upper

178 100

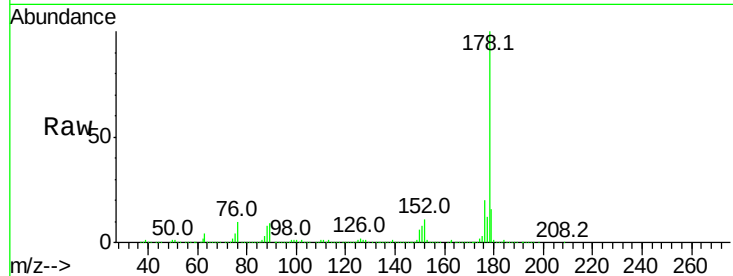
176 20.2 16.2 24.4

179 16.0 12.6 19.0

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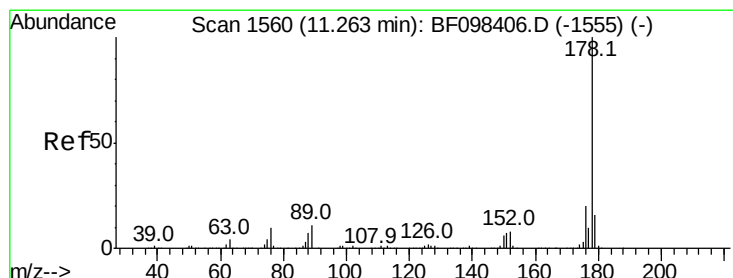
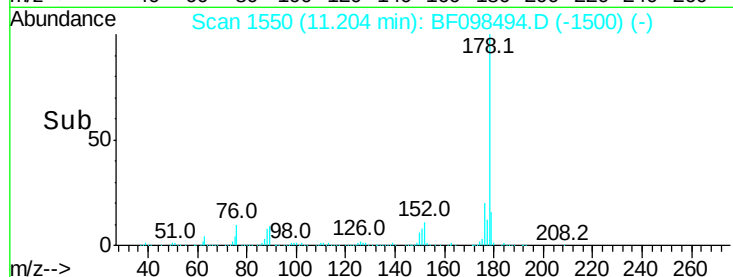
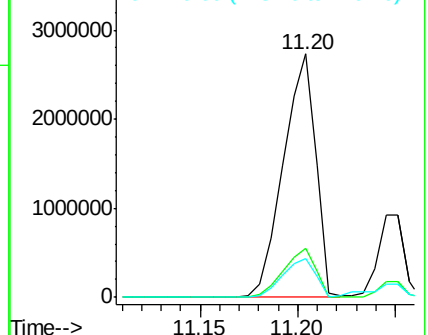
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 27.213 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

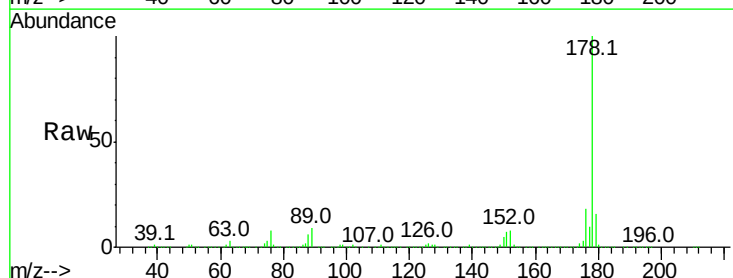
Tgt Ion:178 Resp: 838437

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.8

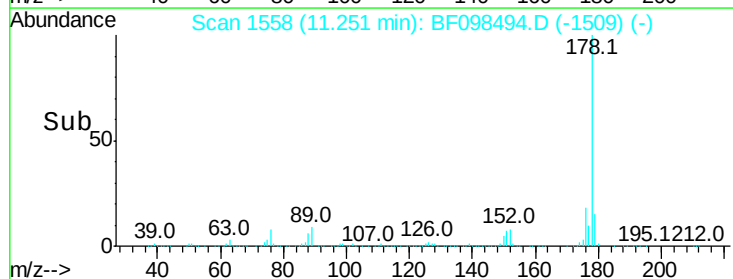
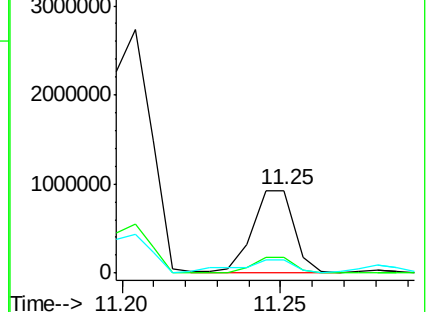
179 15.5 12.7 19.1

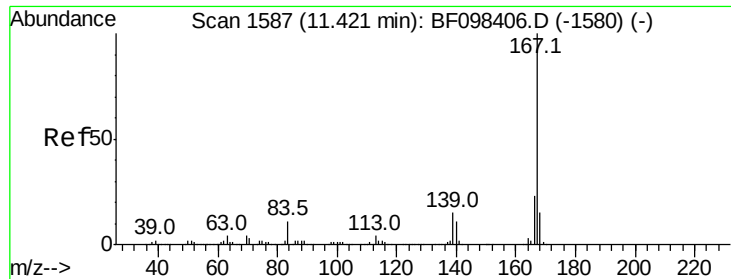


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 12.228 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.02 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

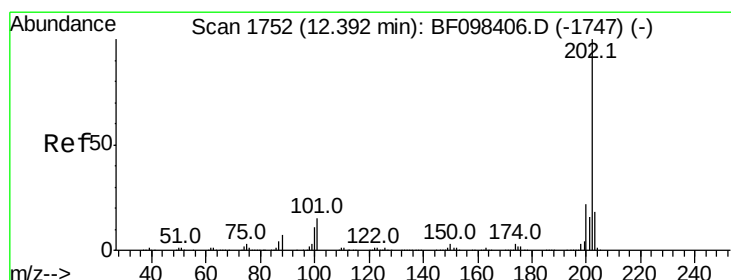
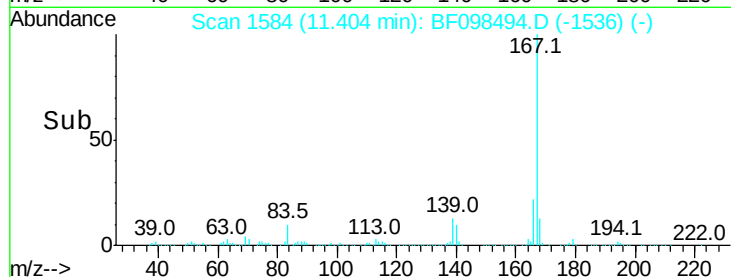
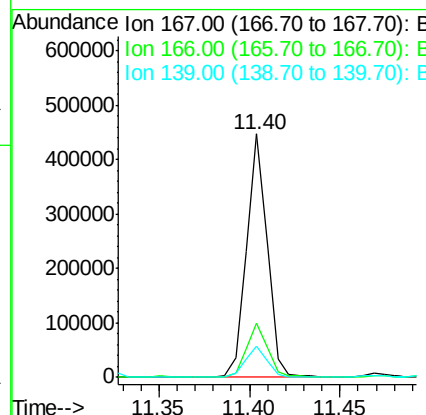
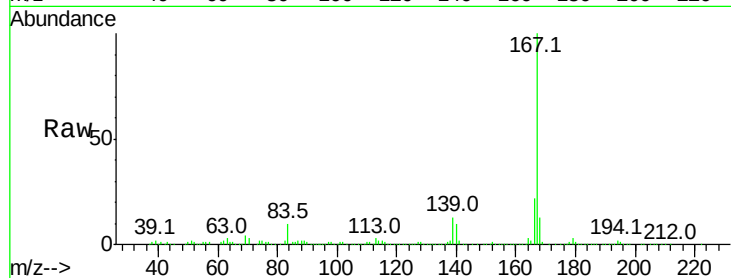
ClientSampleId :

CL-02-091117-A

Tot Ion:	167	Resp:	351117
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	13.0	11.7	17.5

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#74

Fluoranthene

Concen: 73.439 ng

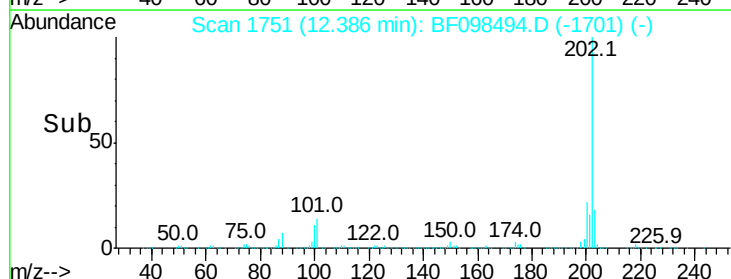
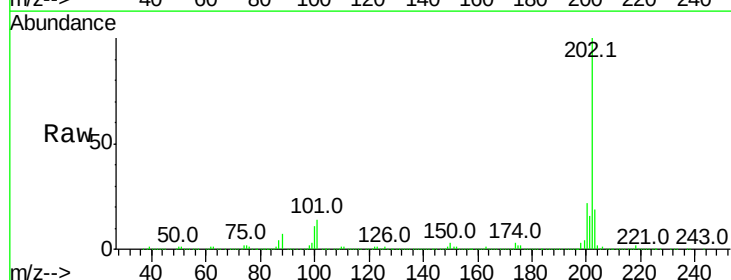
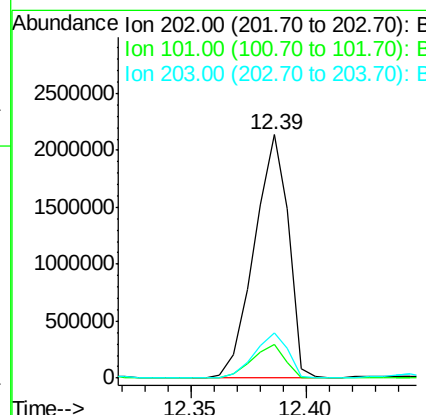
RT: 12.39 min Scan# 1751

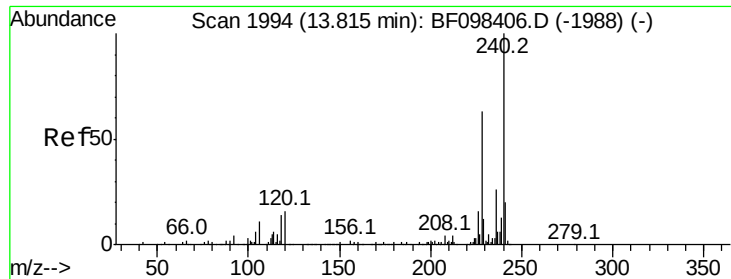
Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Tgt Ion:	202	Resp:	2206191
Ion Ratio	Lower	Upper	
202	100		
101	14.1	0.0	33.2
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-A

Tot Ion:240 Resp: 340922

Ion Ratio Lower Upper

240 100

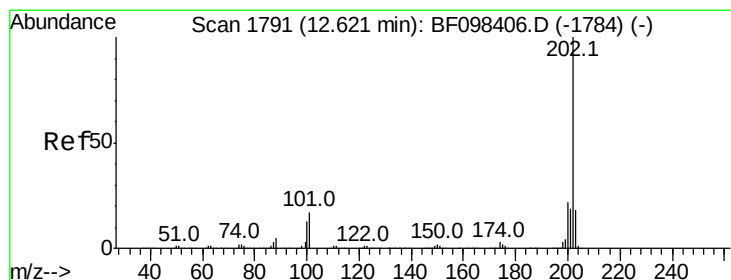
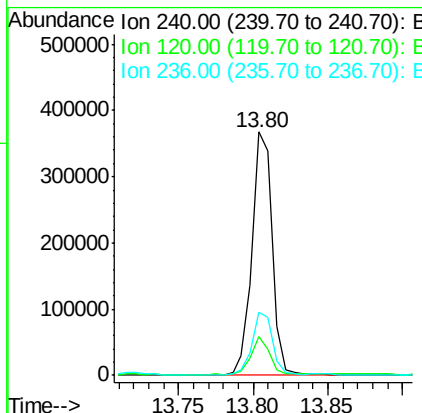
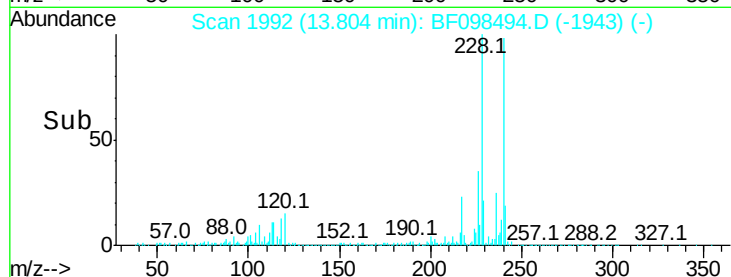
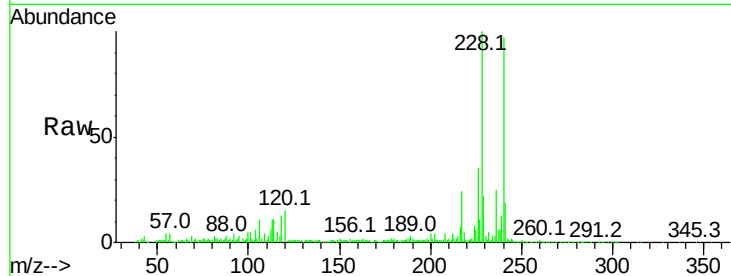
120 15.9 5.8 8.8#

236 26.1 20.5 30.7

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#77

Pyrene

Concen: 71.864 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

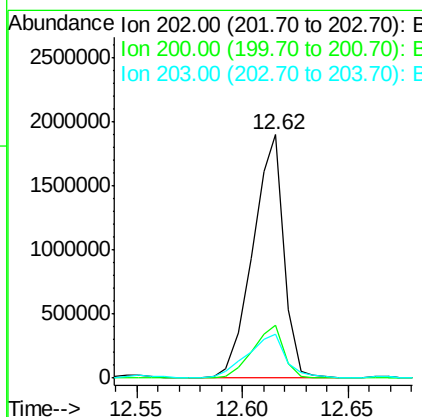
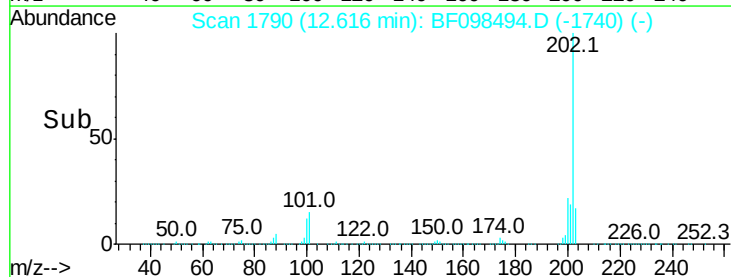
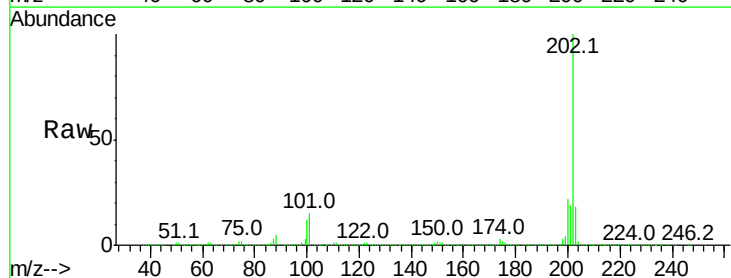
Tgt Ion:202 Resp: 1932718

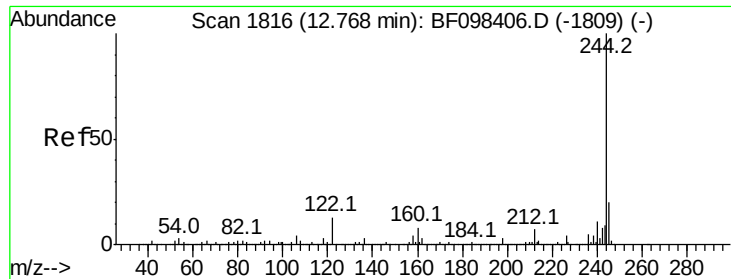
Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

203 18.1 14.4 21.6





#78

Terphenyl-d14

Concen: 14.458 ng

RT: 12.75 min Scan# 1813

Delta R.T. -0.02 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

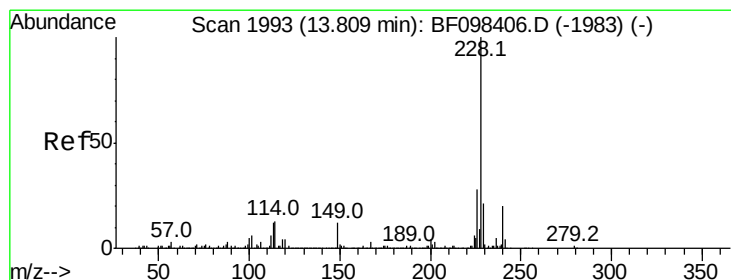
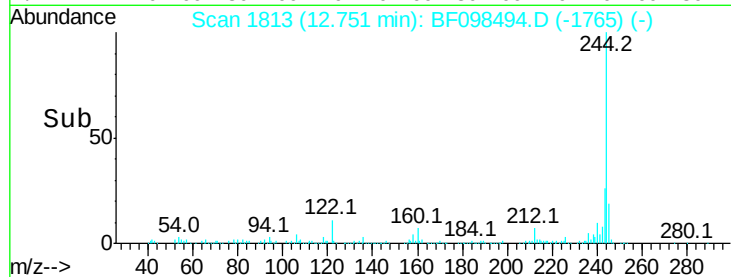
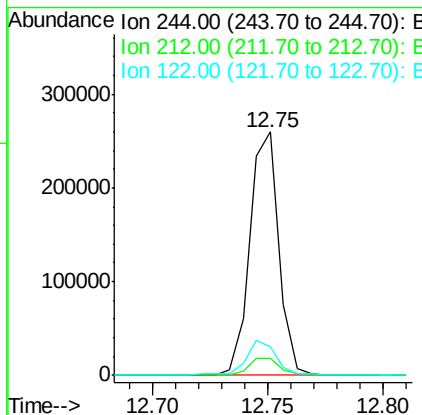
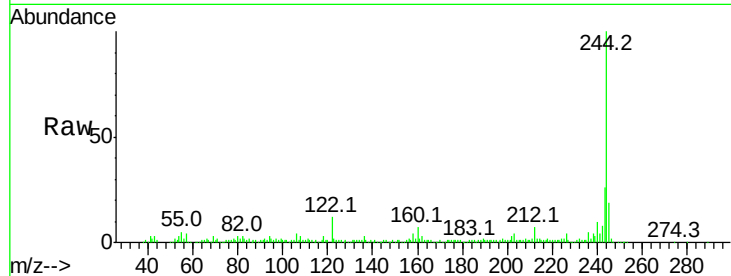
ClientSampleId :

CL-02-091117-A

Tot Ion:	244	Resp:	228357
Ion Ratio		Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.7	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 40.257 ng

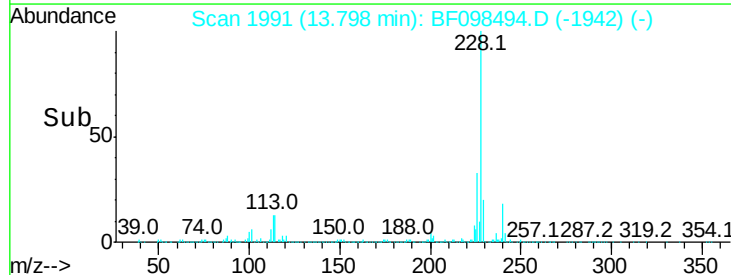
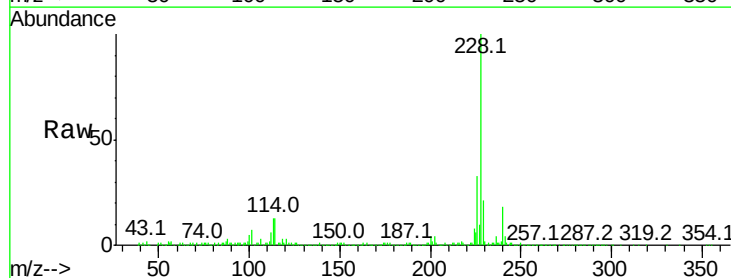
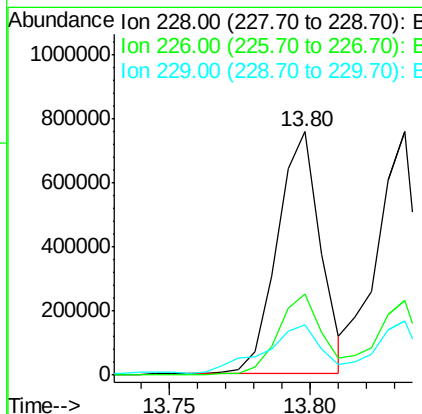
RT: 13.80 min Scan# 1991

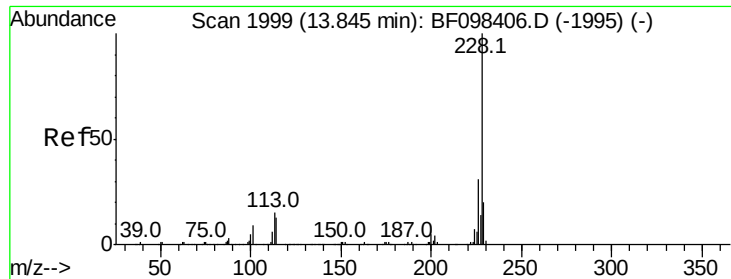
Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Tgt Ion:	228	Resp:	804639
Ion Ratio		Lower	Upper
228	100		
226	33.3	22.6	33.8
229	20.7	16.3	24.5





#82

Chrysene

Concen: 36.581 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Instrument :

BNA_F

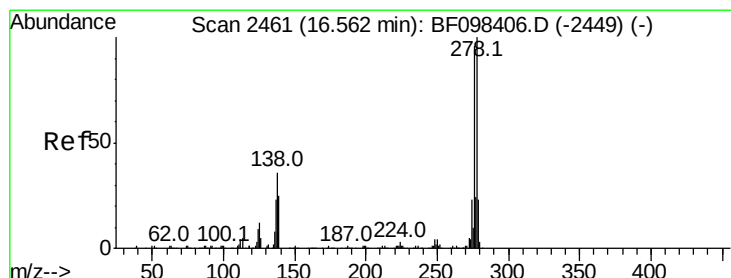
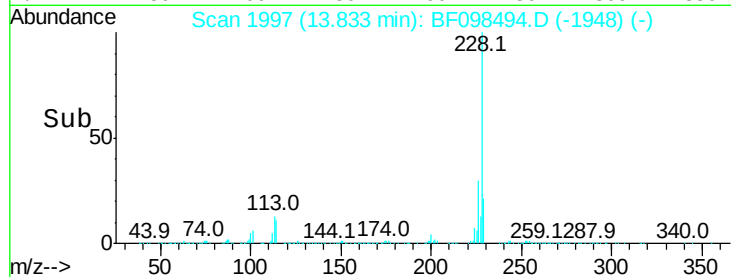
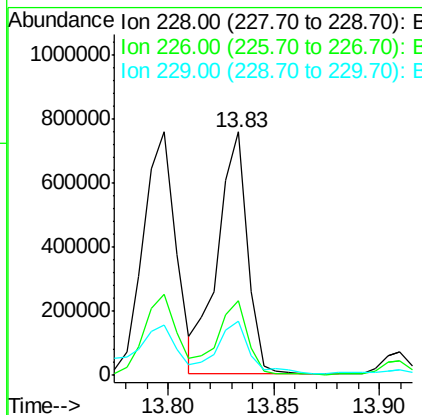
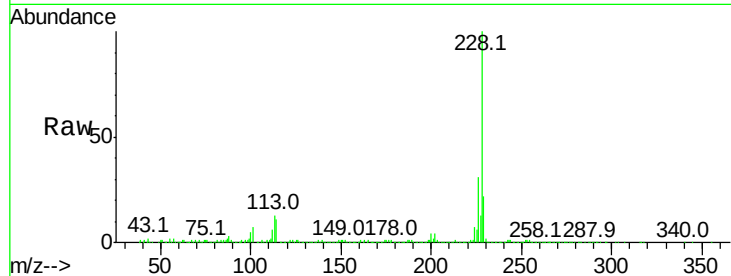
ClientSampleId :

CL-02-091117-A

Tot Ion:	228	Resp:	739079
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.9	37.3
229	22.1	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 22.203 ng

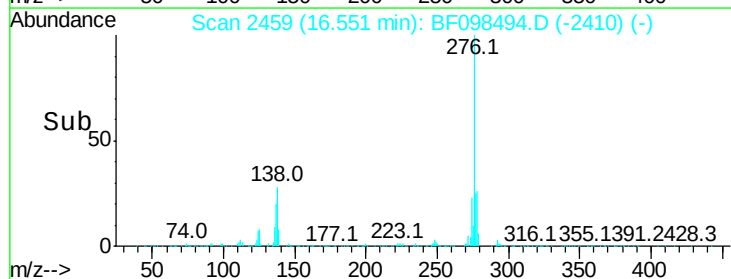
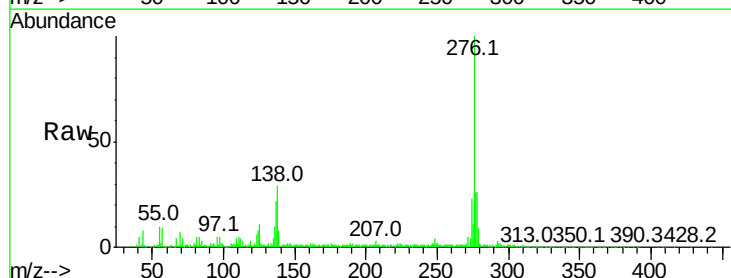
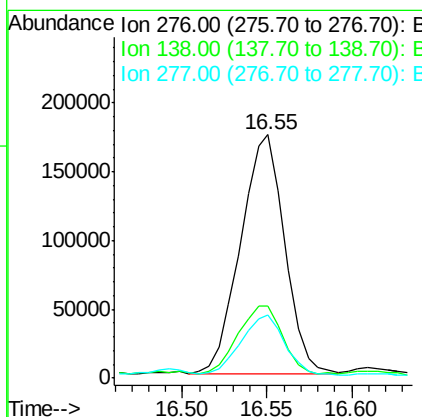
RT: 16.55 min Scan# 2459

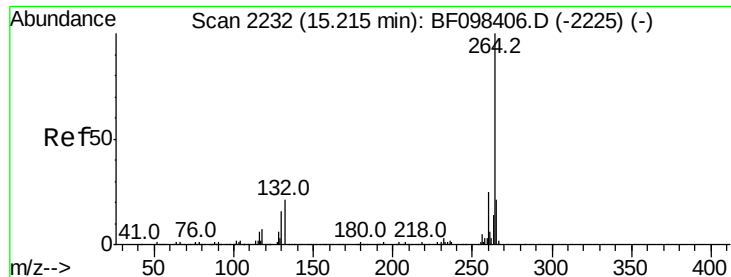
Delta R.T. -0.01 min

Lab File: BF098494.D

Acq: 13 Sep 2017 17:21

Tgt Ion:	276	Resp:	314730
Ion Ratio	Lower	Upper	
276	100		
138	30.0	27.8	41.6
277	24.8	20.2	30.4





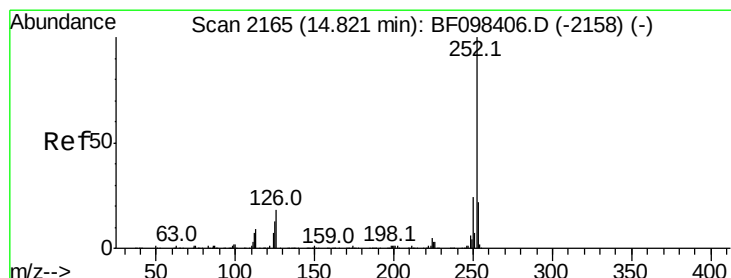
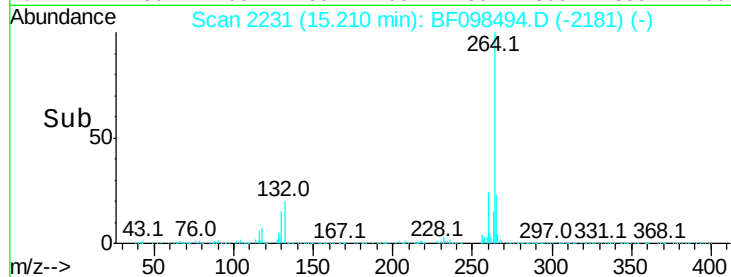
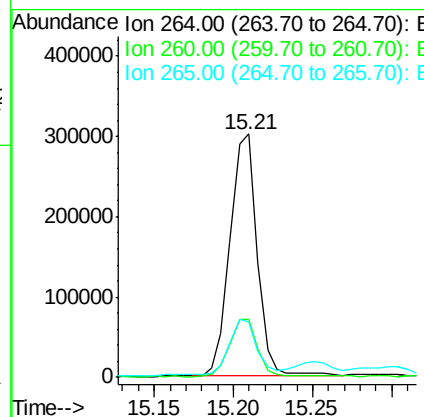
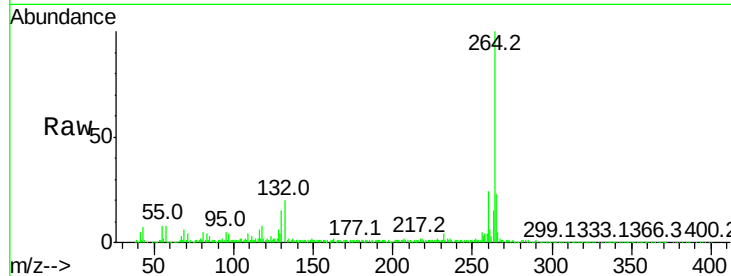
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	23.0	17.2	25.8

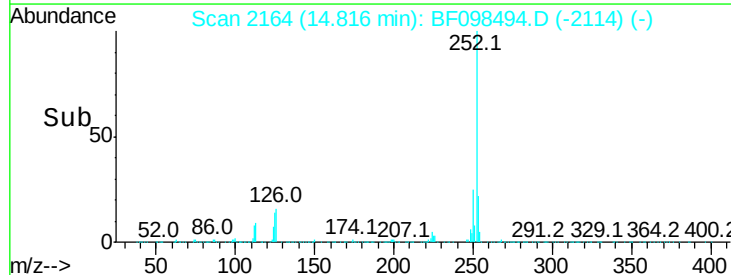
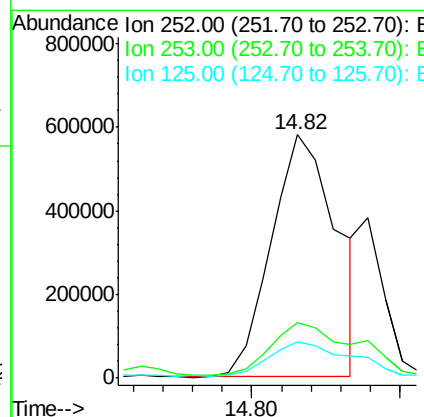
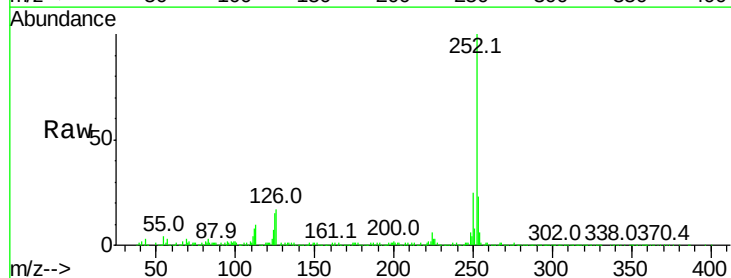
Manual Integrations
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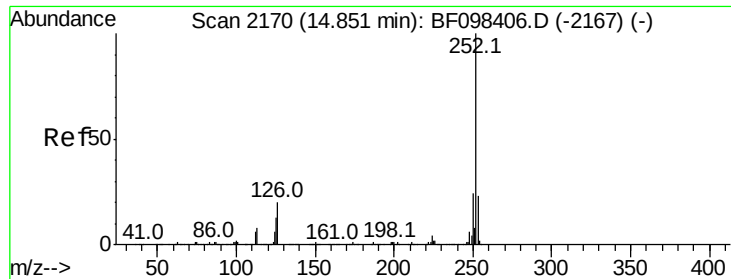
Sohil
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#87
Benzo(b)fluoranthene
Concen: 39.437 ng m
RT: 14.82 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	15.1	9.8	14.8#





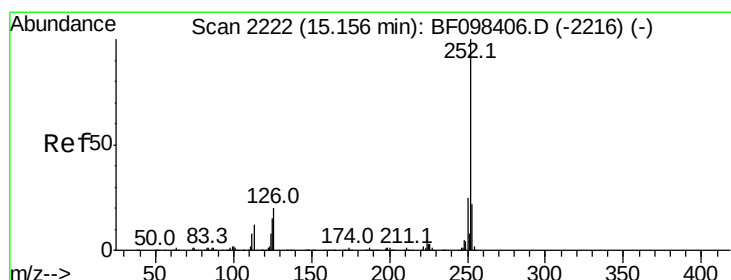
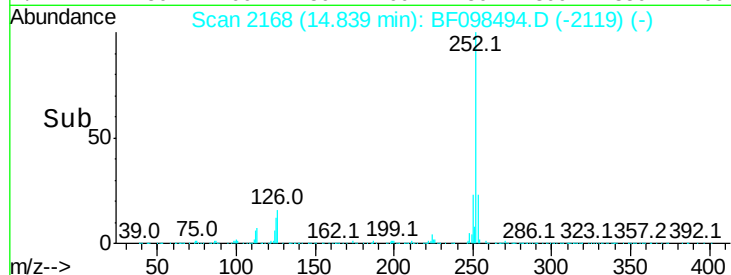
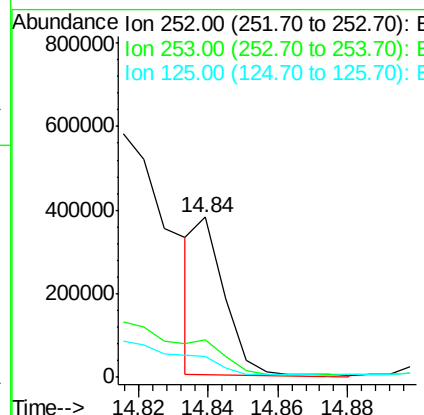
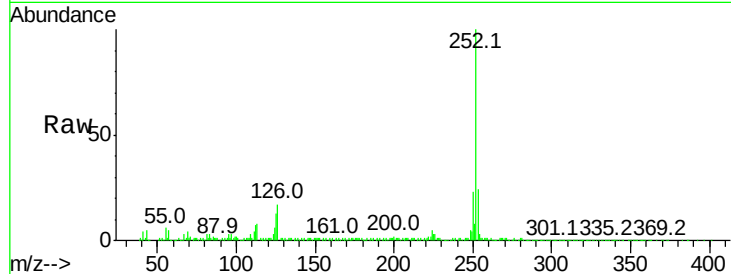
#88
Benzo(k)fluoranthene
Concen: 10.449 ng m
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	13.0	13.1	19.7

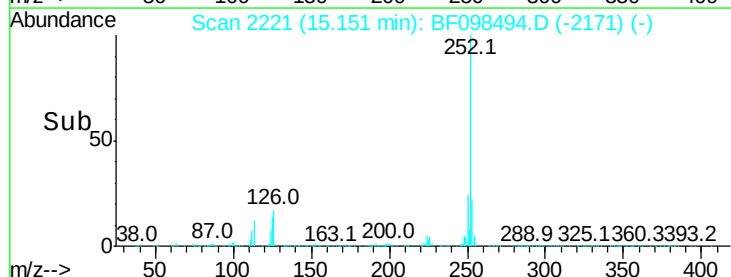
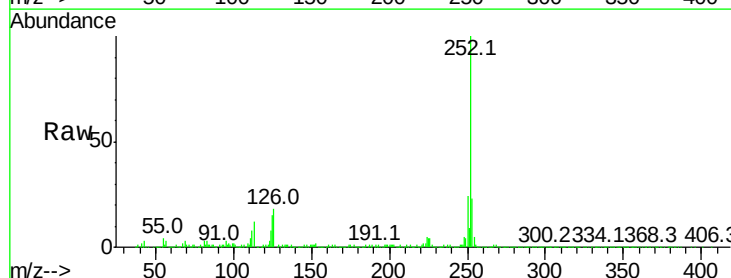
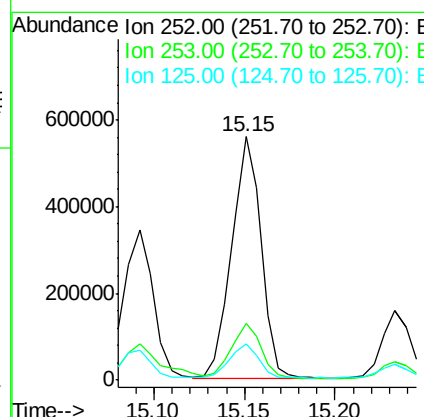
Manual Integrations
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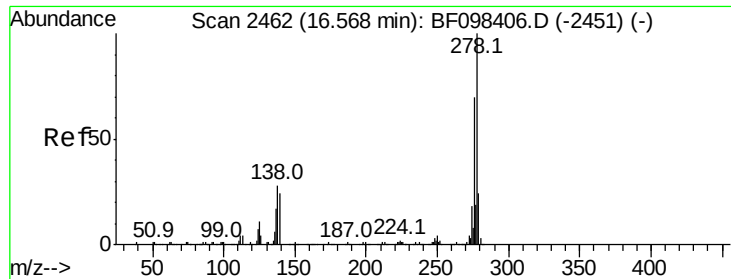
Sohil
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#89
Benzo(a)pyrene
Concen: 31.429 ng
RT: 15.15 min Scan# 2221
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	15.0	11.0	16.4





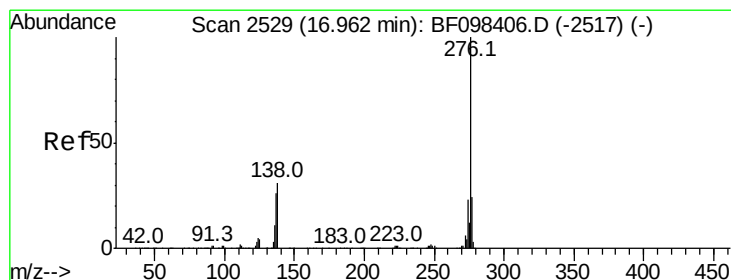
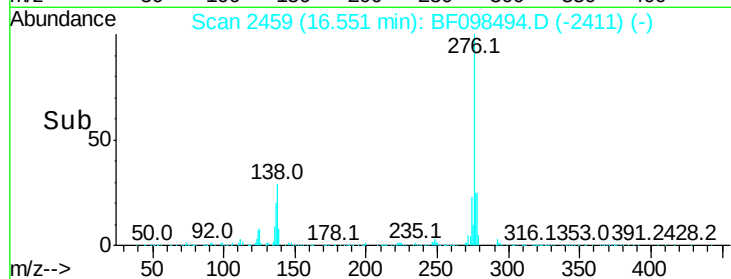
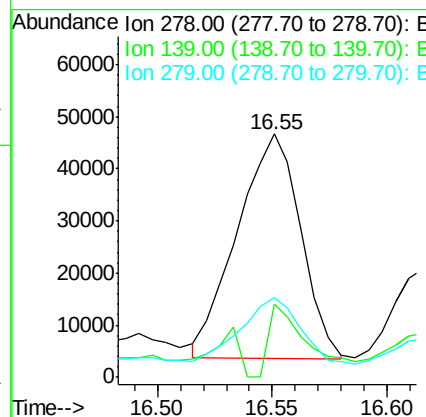
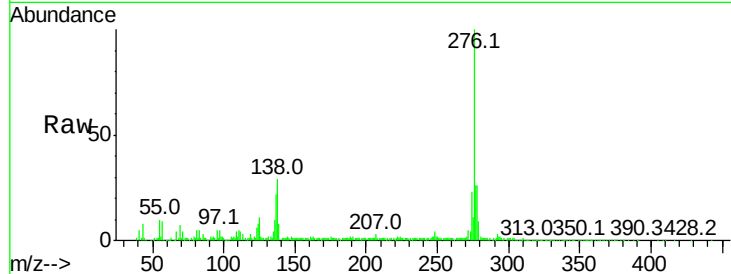
#90
Dibenzo(a,h)anthracene
Concen: 5.598 ng m
RT: 16.55 min Scan# 2459
Delta R.T. -0.02 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	30.1	16.6	24.8#
279	32.8	19.3	28.9#

Manual Integrations
APPROVED

Sohil
9/14/2017 5:52:32 PM



#91
Benzo(g,h,i)perylene
Concen: 19.424 ng
RT: 16.95 min Scan# 2527
Delta R.T. -0.01 min
Lab File: BF098494.D
Acq: 13 Sep 2017 17:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.6	28.0
138	31.6	25.4	38.0

