

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097215.D
 Acq On : 31 Jul 2017 18:37
 Operator : SJ/JU
 Sample : I4488-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-D

Manual Integrations
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Sohil
 8/1/2017 5:44:45 PM

Quant Time: Aug 01 12:00:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	120072	20.00	ng	-0.02
21) Naphthalene-d8	7.76	136	463154	20.00	ng	-0.02
38) Acenaphthene-d10	9.51	164	149036	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	215914	20.00	ng	-0.02
75) Chrysene-d12	13.63	240	179311	20.00	ng	0.00
86) Perylene-d12	14.98	264	160111	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	708687	88.97	ng	0.00
7) Phenol-d6	6.16	99	934329	102.75	ng	-0.01
23) Nitrobenzene-d5	7.05	82	528107	66.89	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	104337	88.61	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	686308	78.15	ng	-0.02
78) Terphenyl-d14	12.57	244	428292	48.70	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.17	94	53342	4.946	ng	97
31) Naphthalene	7.79	128	199479	9.137	ng	98
37) 2-Methylnaphthalene	8.47	142	158523	11.468	ng	97
48) Acenaphthylene	9.37	152	227141	15.797	ng	97
49) Dimethylphthalate	9.24	163	147842	13.063	ng	100
51) Acenaphthene	9.54	154	188733	22.284	ng	97
54) Dibenzofuran	9.72	168	108665	9.632	ng	# 94
57) Fluorene	10.06	166	309253	36.473	ng	99
70) Phenanthrene	11.02	178	1204581	104.124	ng	100
71) Anthracene	11.06	178	454531	38.361	ng	99
72) Carbazole	11.23	167	70391	6.041	ng	98
74) Fluoranthene	12.21	202	1358007	119.824	ng	99
77) Pvrene	12.43	202	1542635	105.087	ng	99
80) Benzo(a)anthracene	13.62	228	784601	67.625	ng	93
82) Chrysene	13.65	228	661406m	58.381	ng	
85) Indeno(1,2,3-cd)pyrene	16.22	276	216320	22.268	ng	95
87) Benzo(b)fluoranthene	14.63	252	690513m	71.744	ng	
88) Benzo(k)fluoranthene	14.64	252	169561m	18.488	ng	
89) Benzo(a)pvrene	14.93	252	512589	58.191	ng	95
90) Dibenzo(a,h)anthracene	16.22	278	64451	8.922	ng	# 79
91) Benzo(g,h,i)perylene	16.58	276	208462	27.519	ng	96

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

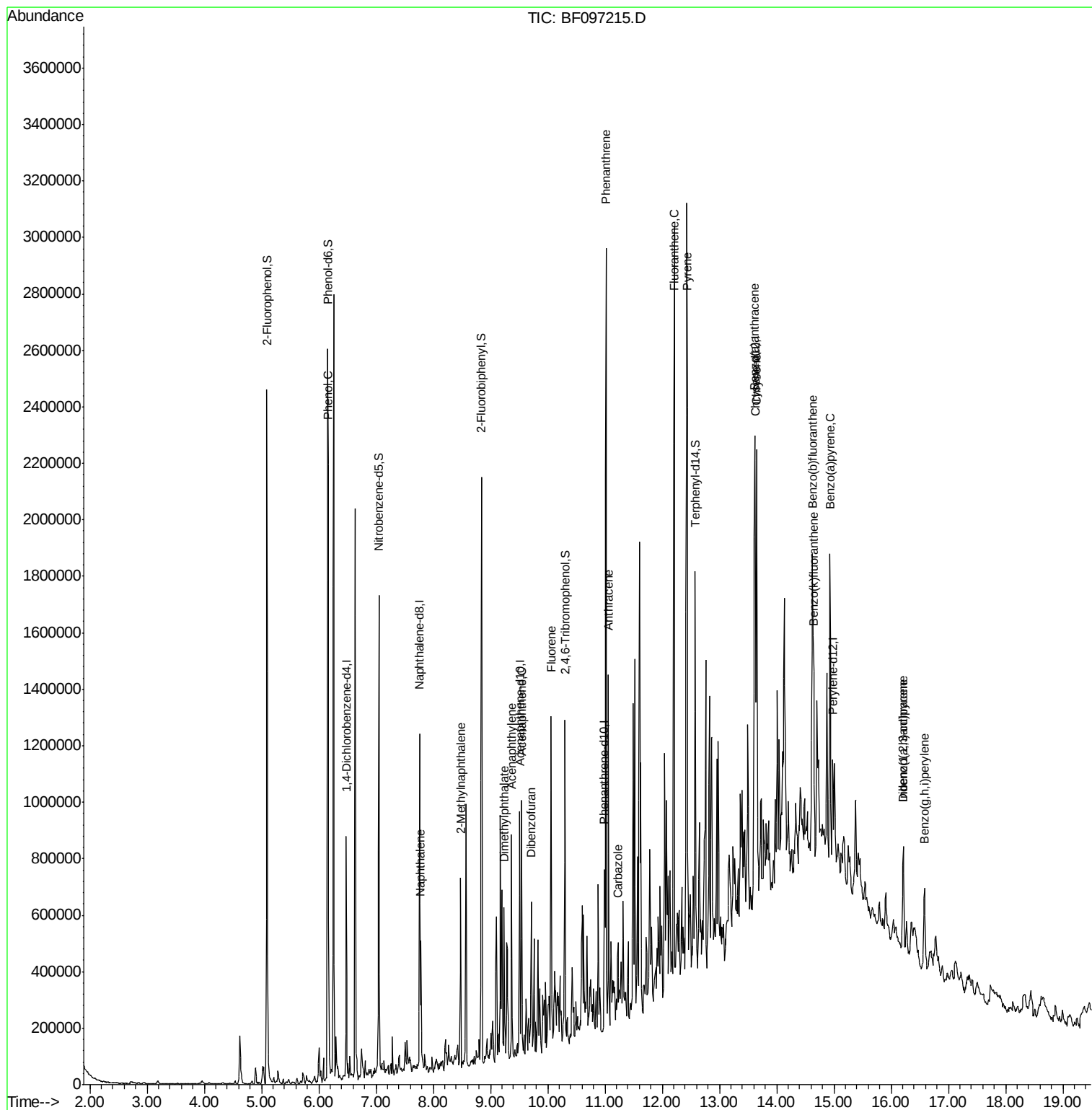
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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ALS Vial : 16 Sample Multiplier: 1

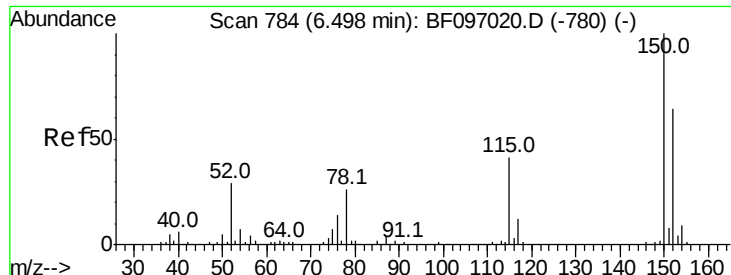
Instrument :
BNA_F
ClientSampleID :
CL-02-072717-D

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#1

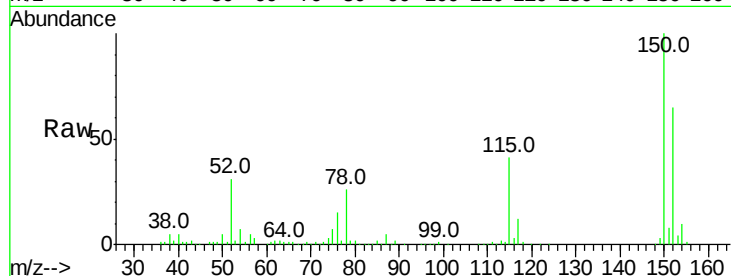
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.48 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

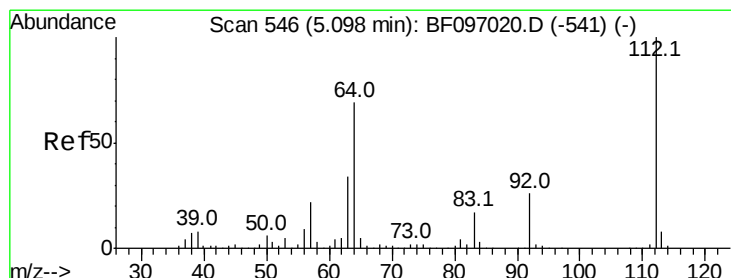
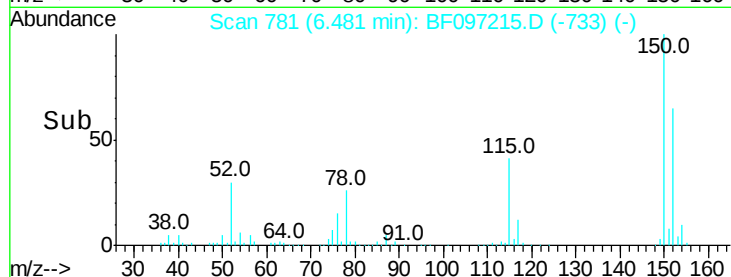
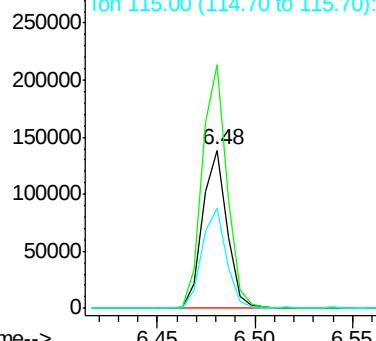
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	126.2	189.2
115	63.4	52.2	78.2

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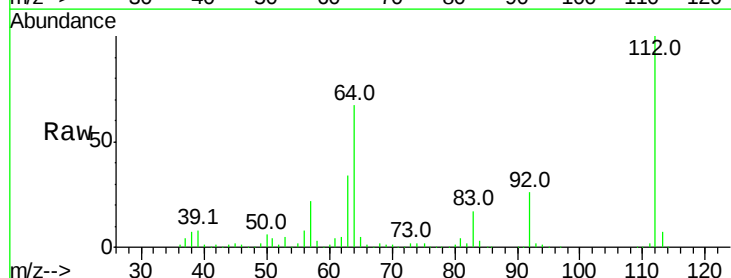
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



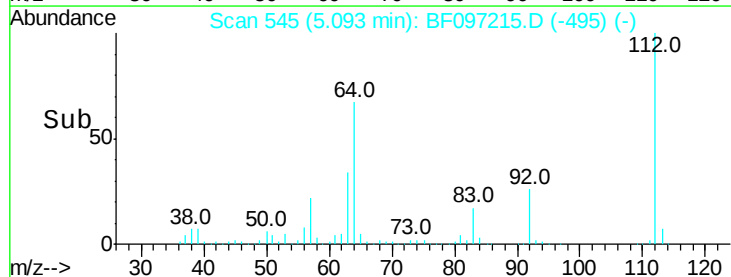
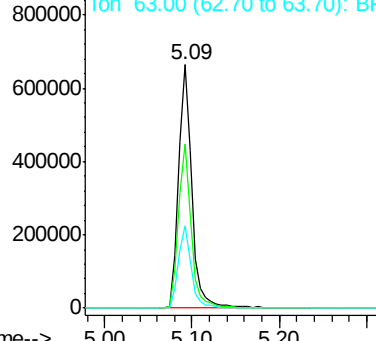
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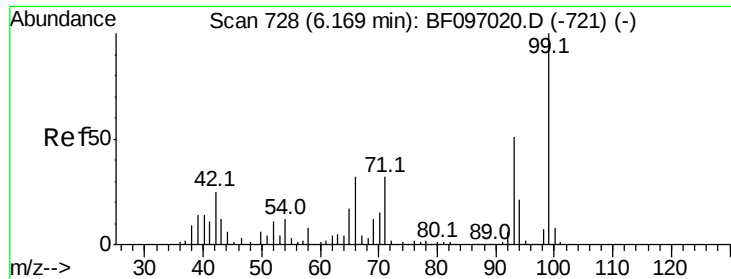
2-Fluorophenol
Concen: 88.975 ng
RT: 5.09 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	46.0	69.0
63	34.0	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: 102.752 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA_F

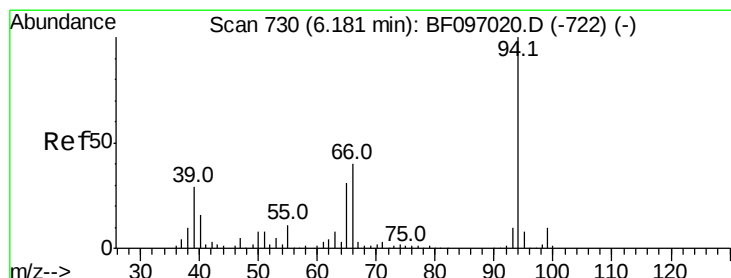
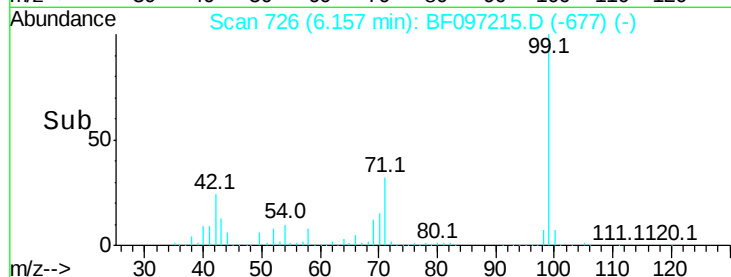
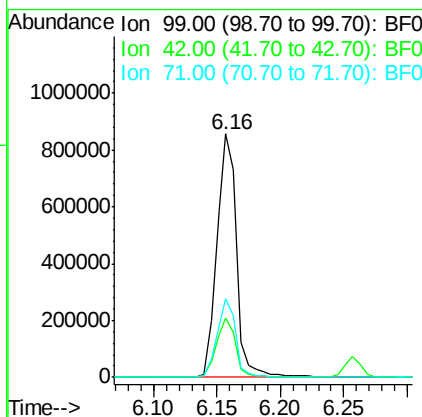
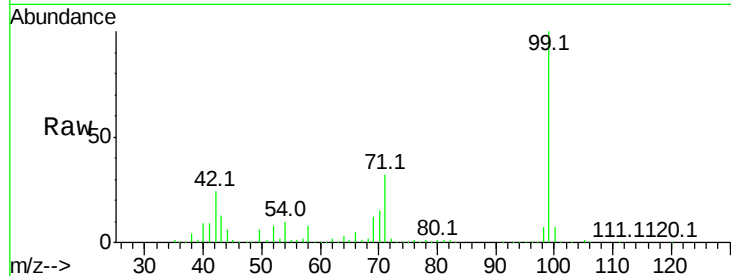
ClientSampleId :

CL-02-072717-D

Tot Ion:	99	Resp:	934329
Ion Ratio	Lower	Upper	
99	100		
42	24.3	13.5	20.3#
71	32.2	24.5	36.7

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#10

Phenol

Concen: 4.946 ng

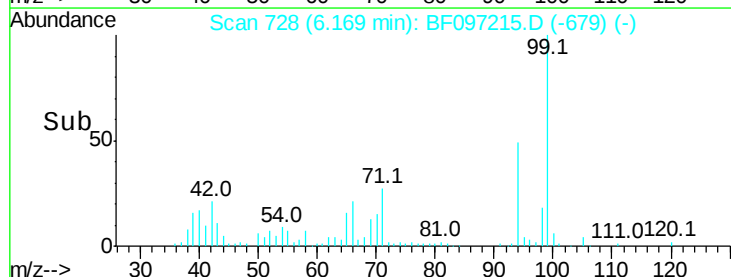
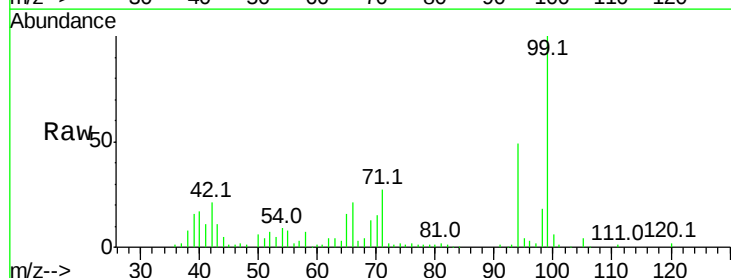
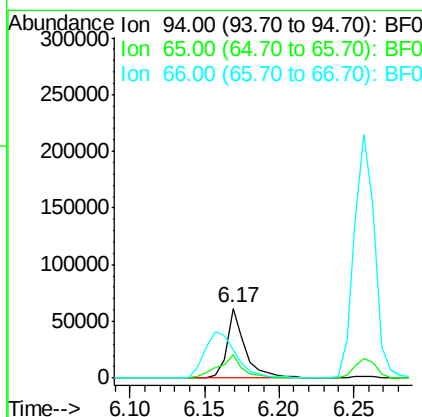
RT: 6.17 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Tgt Ion:	94	Resp:	53342
Ion Ratio	Lower	Upper	
94	100		
65	33.0	9.9	49.9
66	42.0	23.1	63.1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.76 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA_F

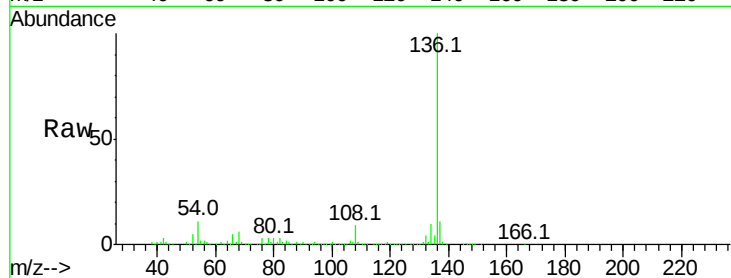
ClientSampleId :

CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.5	12.7	
54	10.7	4.9	7.3	
68	6.2	4.1	6.1	

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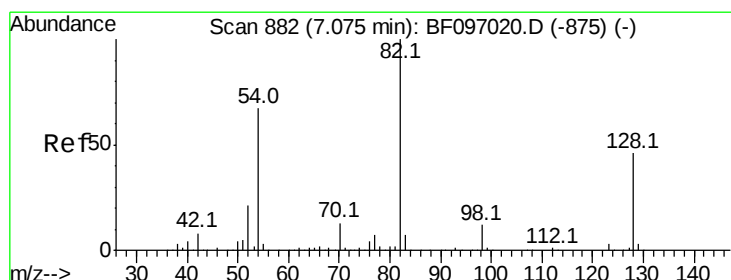
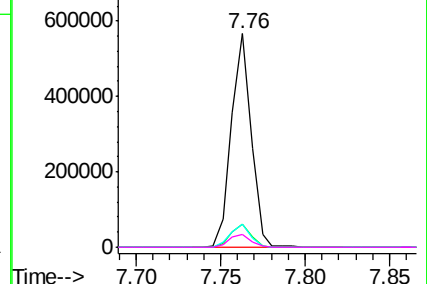
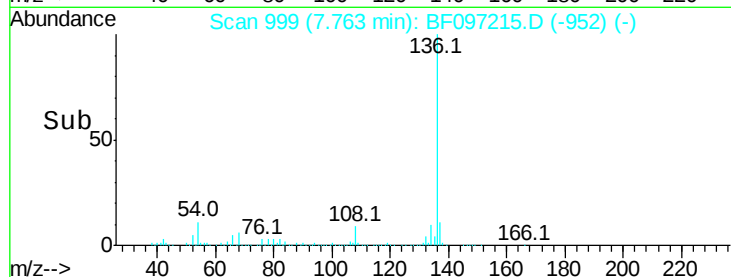


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 66.891 ng

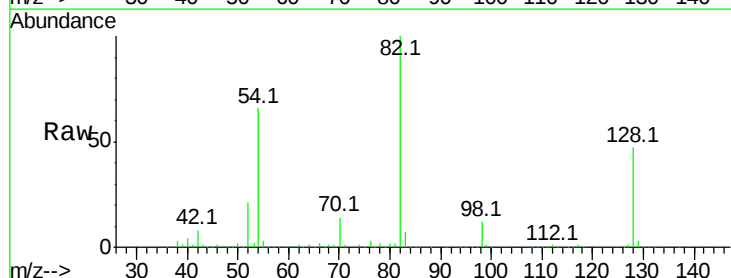
RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

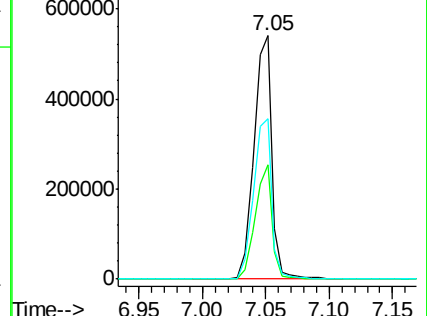
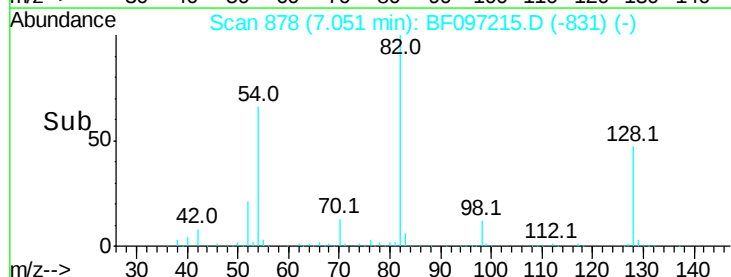
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.7	34.0	51.0	
54	65.6	42.2	63.2	

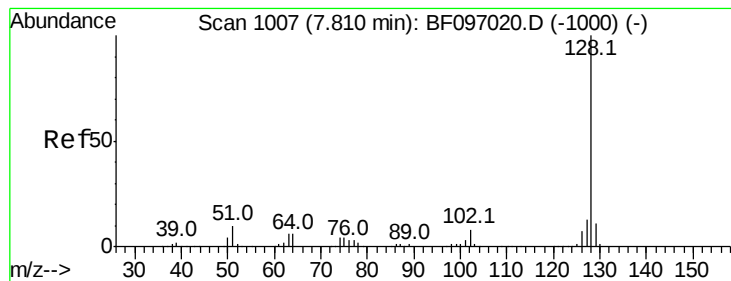


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 9.137 ng

RT: 7.79 min Scan# 1003

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA_F

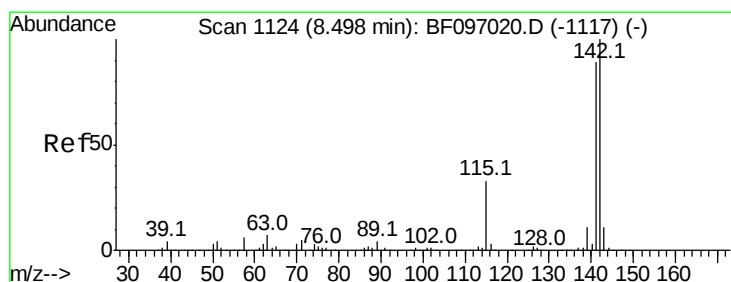
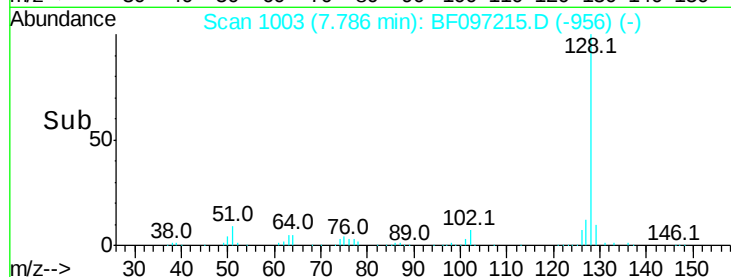
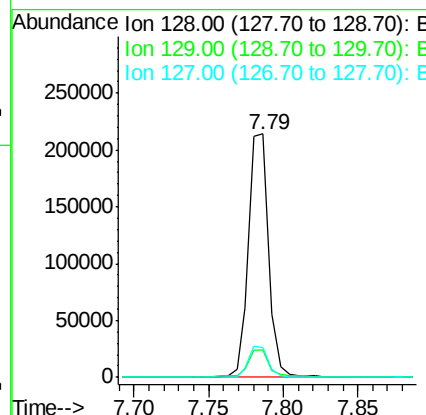
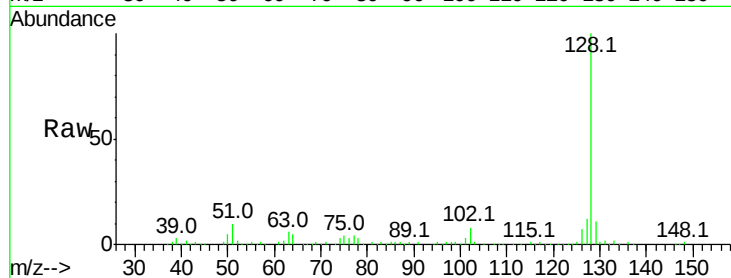
ClientSampleId :

CL-02-072717-D

Tot Ion:	128	Resp:	199479
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	12.4	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 11.468 ng

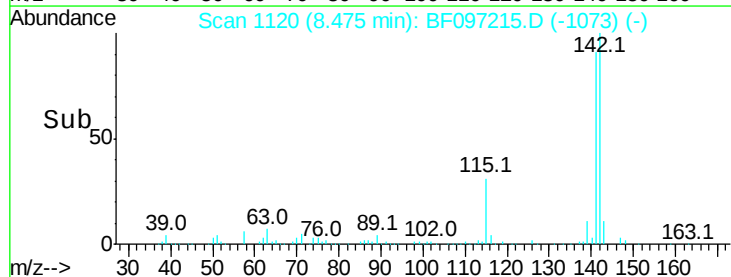
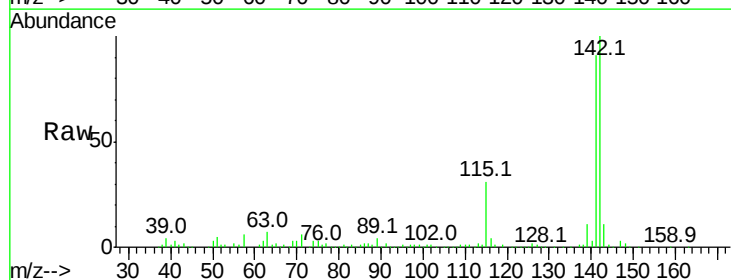
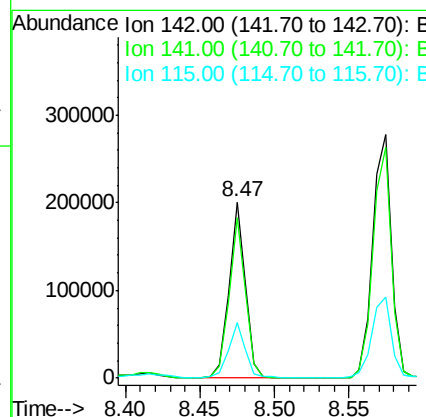
RT: 8.47 min Scan# 1120

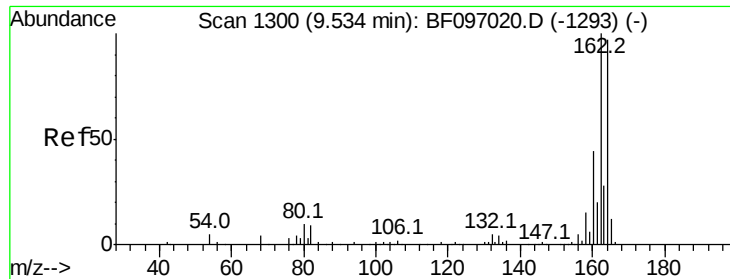
Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Tgt Ion:	142	Resp:	158523
Ion Ratio	Lower	Upper	
142	100		
141	90.9	71.3	106.9
115	31.4	27.1	40.7





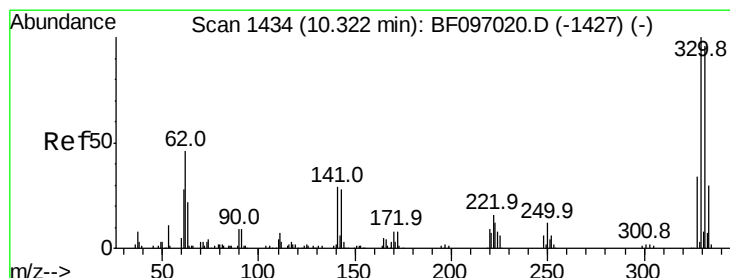
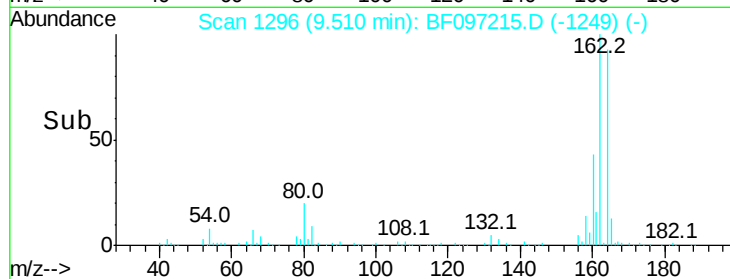
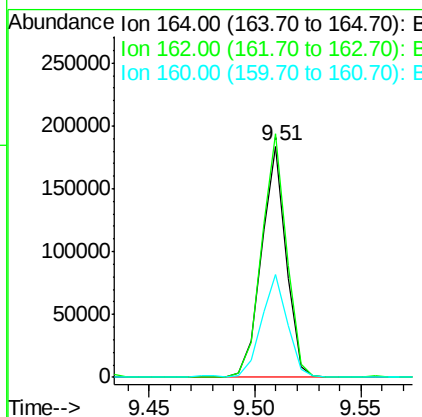
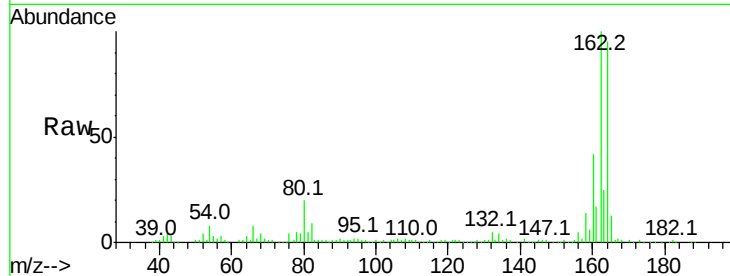
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.51 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Instrument :
 BNA_F
 ClientSampled :
 CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.4	82.6	123.8	
160	44.6	36.2	54.2	

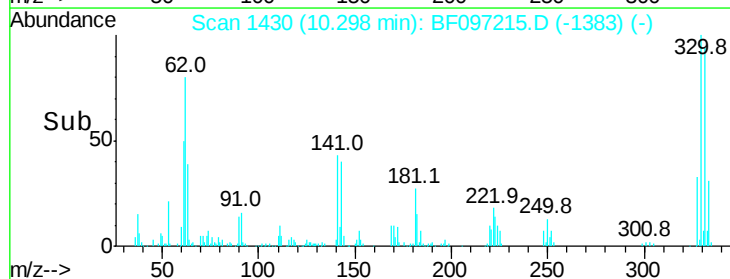
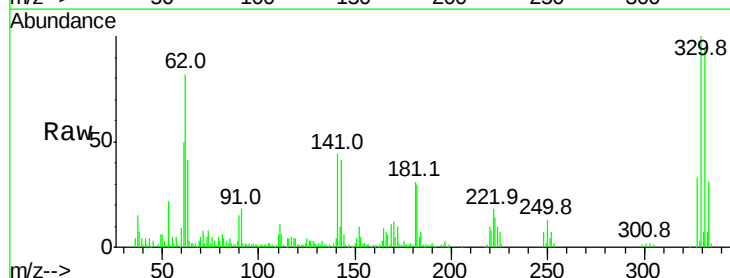
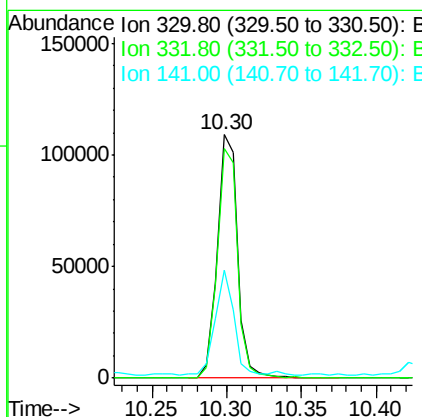
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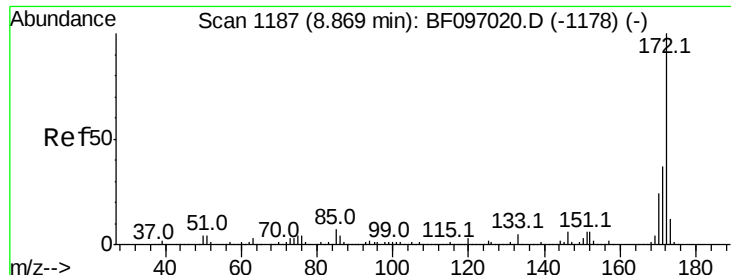
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#41
 2,4,6-Tribromophenol
 Concen: 88.607 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.2	76.6	115.0	
141	38.3	31.4	47.2	





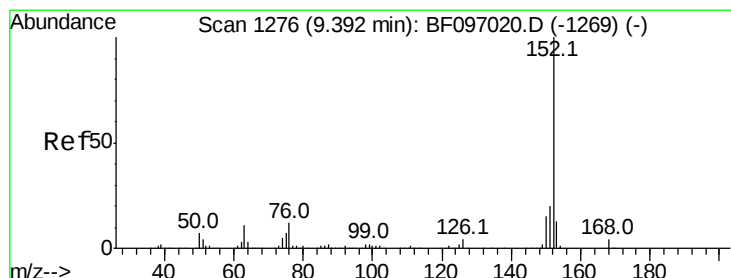
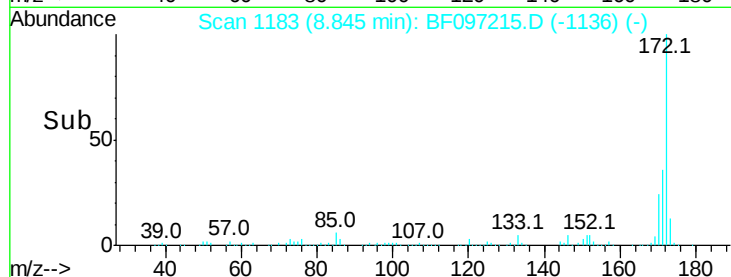
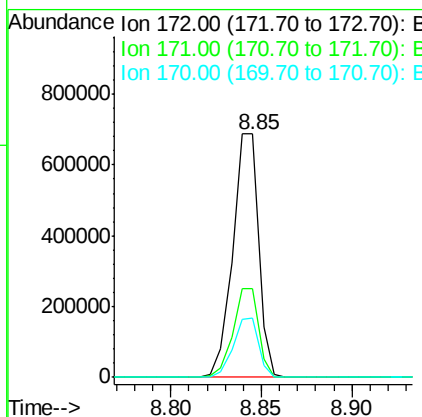
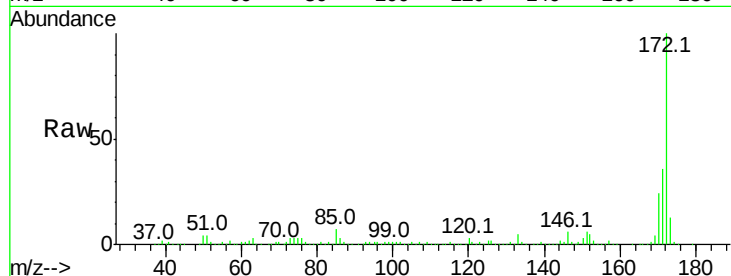
#44
 2-Fluorobiphenyl
 Concen: 78.151 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
172	100	686308		
171	36.3		29.6	44.4
170	24.2		19.8	29.8

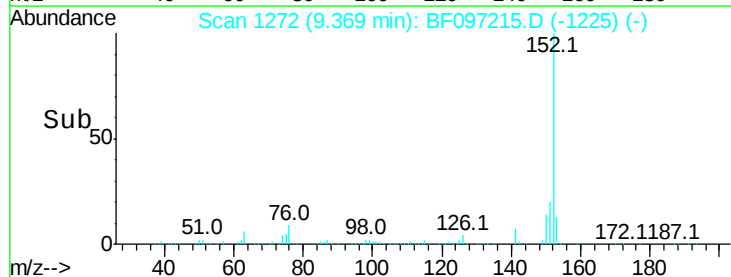
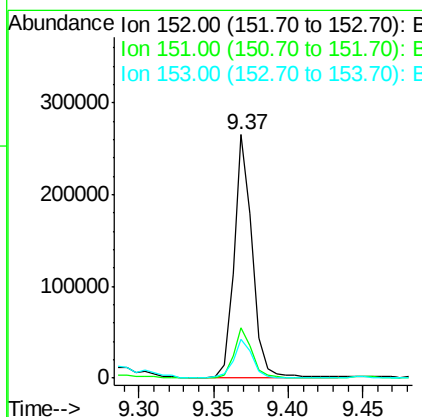
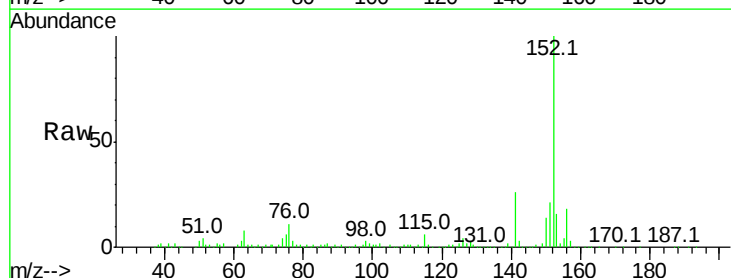
Manual Integrations
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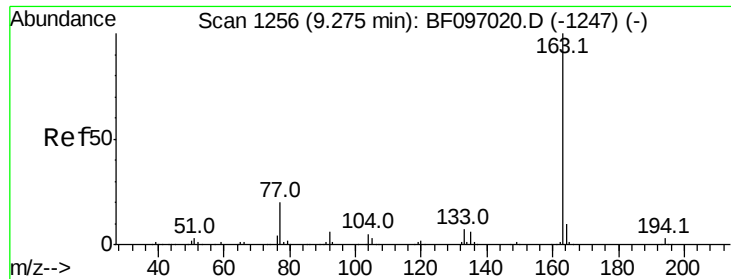
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#48
 Acenaphthylene
 Concen: 15.797 ng
 RT: 9.37 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	227141		
151	20.6		16.8	25.2
153	15.8		10.8	16.2





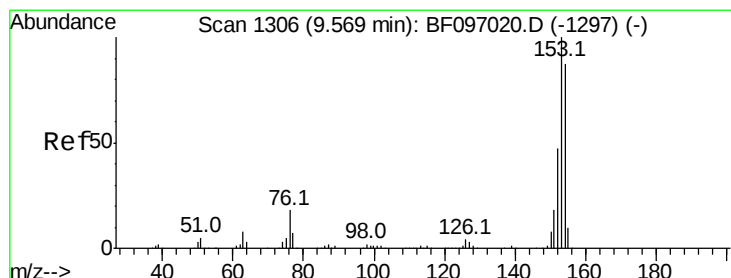
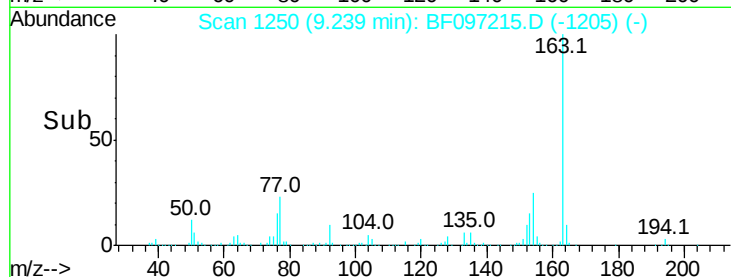
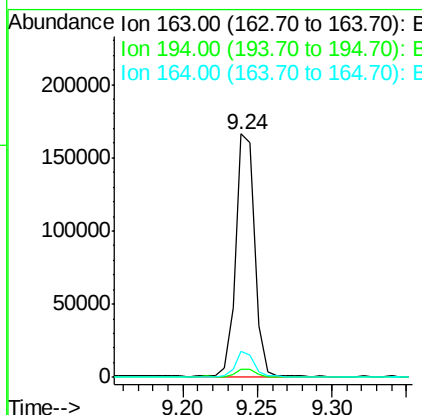
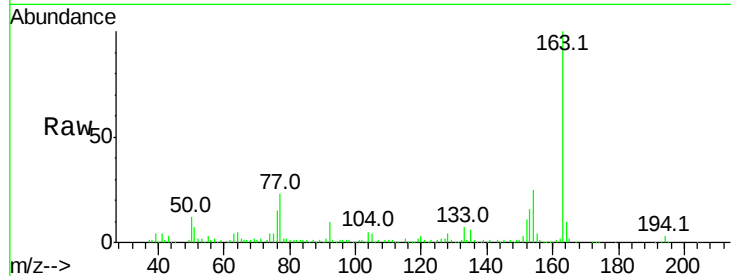
#49
Dimethylphthalate
Concen: 13.063 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.04 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
163	100	147842		
194	3.5	2.6	4.0	
164	10.4	8.4	12.6	

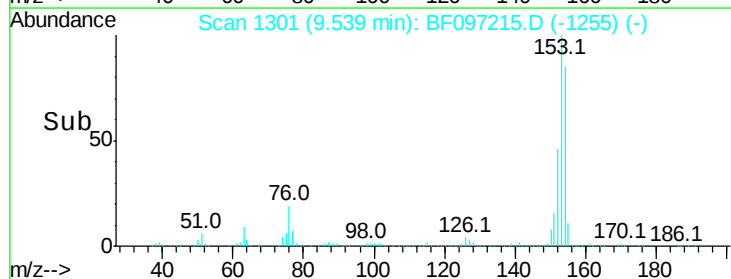
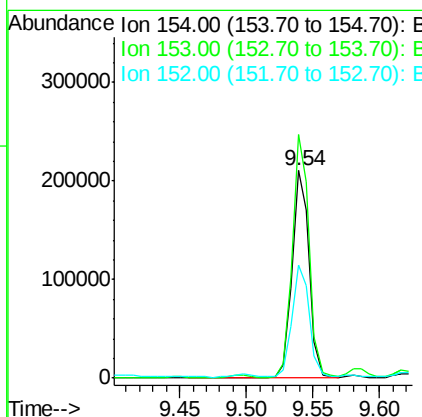
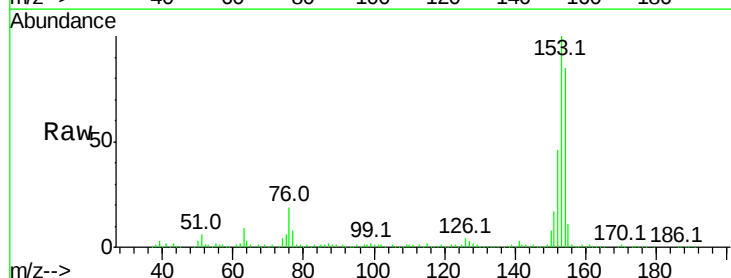
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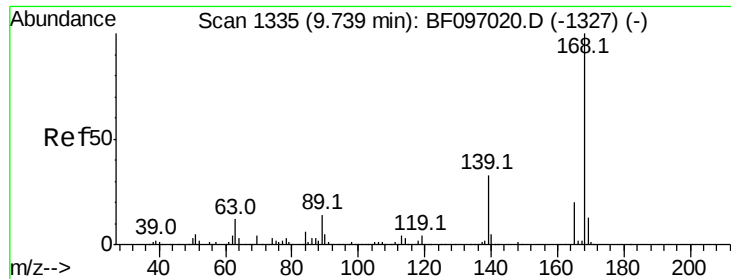
Sohil
8/1/2017 5:44:45 PM



#51
Acenaphthene
Concen: 22.284 ng
RT: 9.54 min Scan# 1301
Delta R.T. -0.03 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	188733		
153	117.5	90.5	135.7	
152	54.3	43.6	65.4	





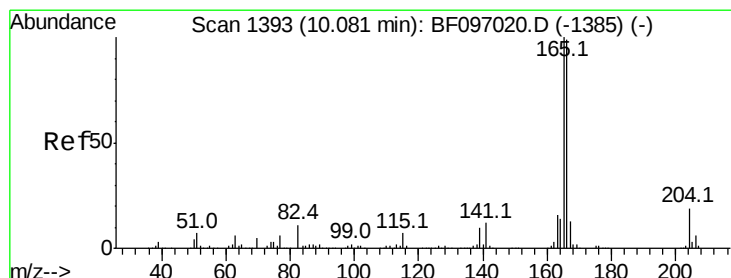
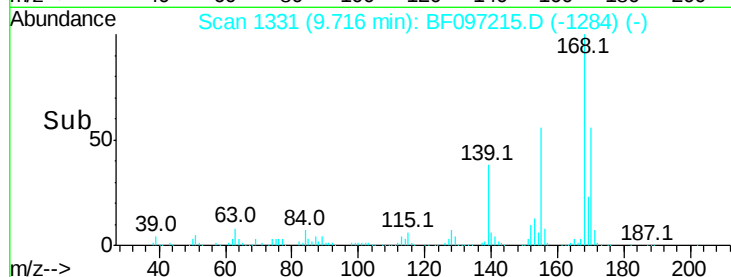
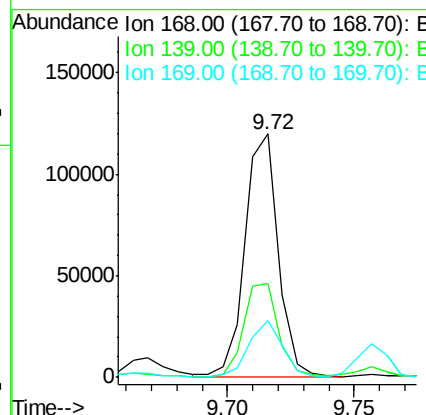
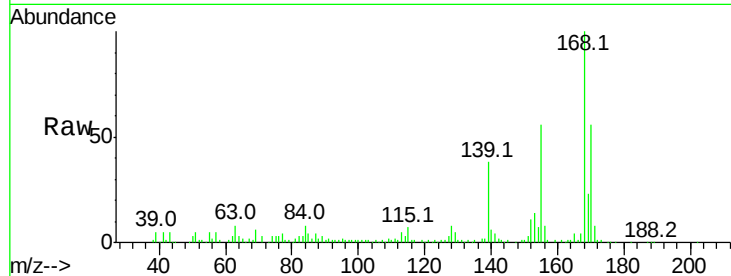
#54
Dibenzofuran
Concen: 9.632 ng
RT: 9.72 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	38.3	30.6	45.8	
169	23.2	10.8	16.2	

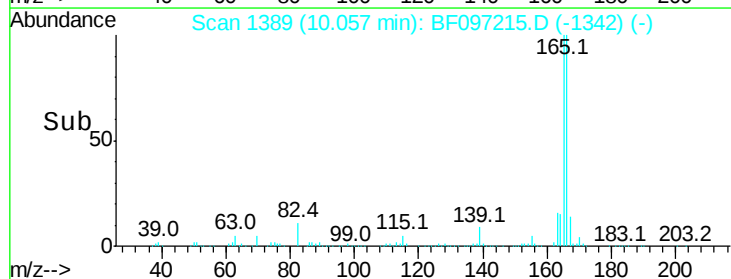
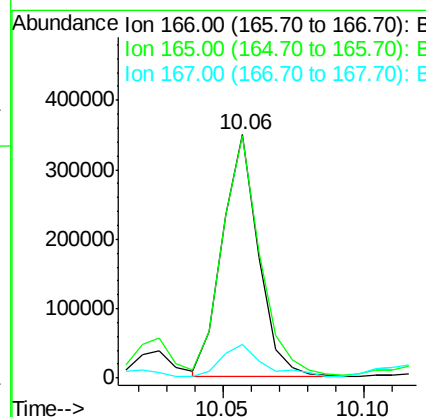
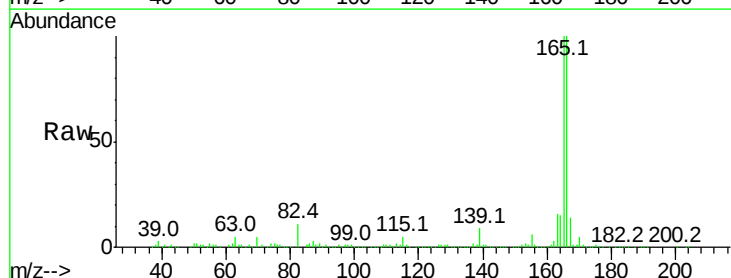
Manual Integrations
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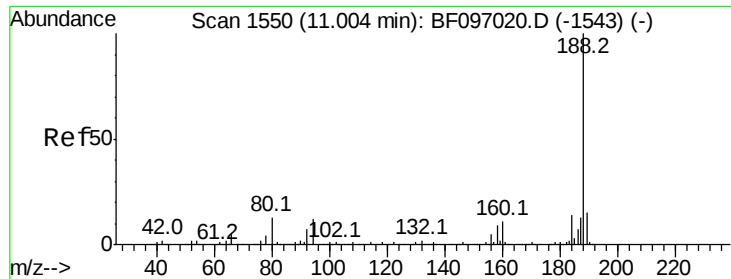
Sohil
8/1/2017 5:44:45 PM



#57
Fluorene
Concen: 36.473 ng
RT: 10.06 min Scan# 1389
Delta R.T. -0.02 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.7	78.8	118.2	
167	13.9	10.6	16.0	





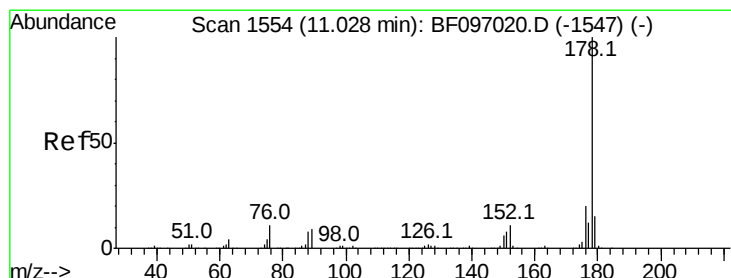
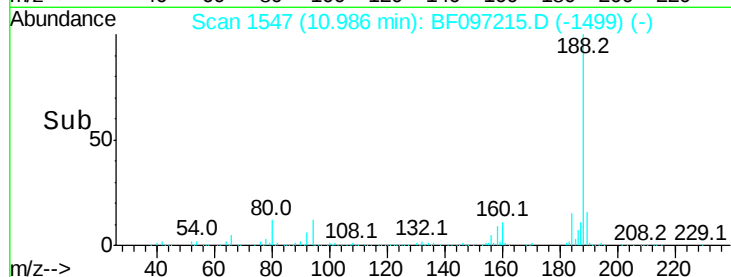
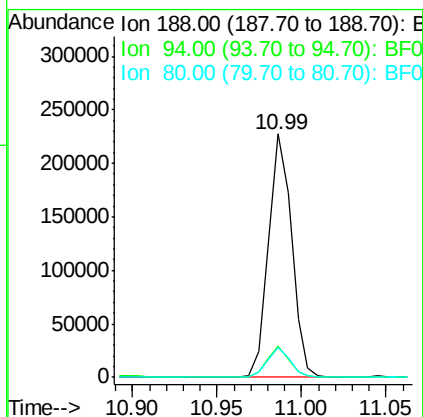
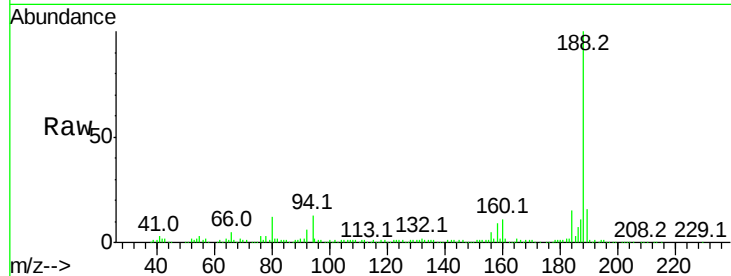
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Resp	Lower	Upper
188	100	215914		
94	12.7		9.4	14.2
80	12.3		10.2	15.2

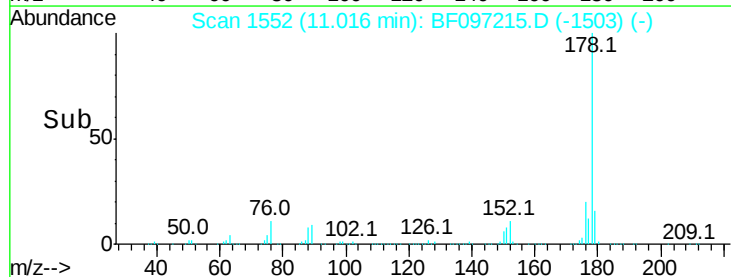
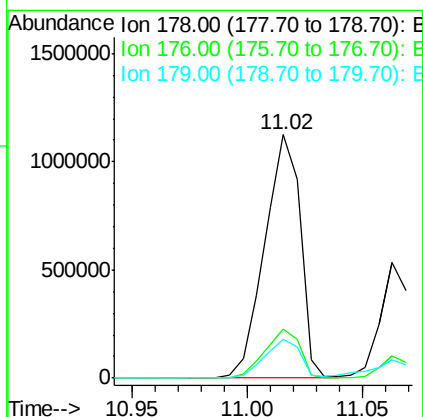
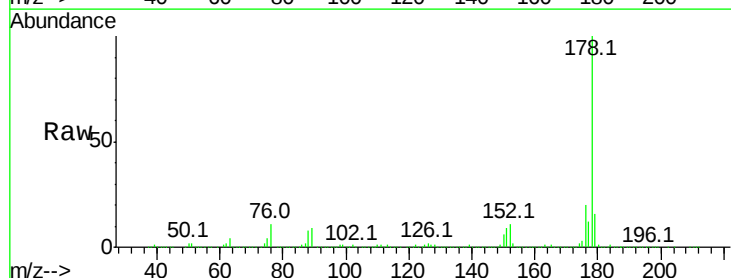
Manual Integrations
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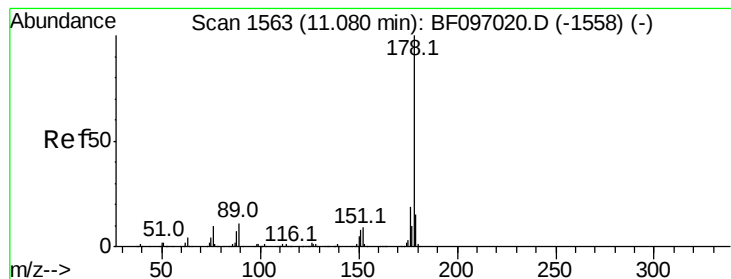
Sohil
8/1/2017 5:44:45 PM



#70
Phenanthrene
Concen: 104.124 ng
RT: 11.02 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1204581		
176	20.4		16.2	24.4
179	15.8		12.6	19.0





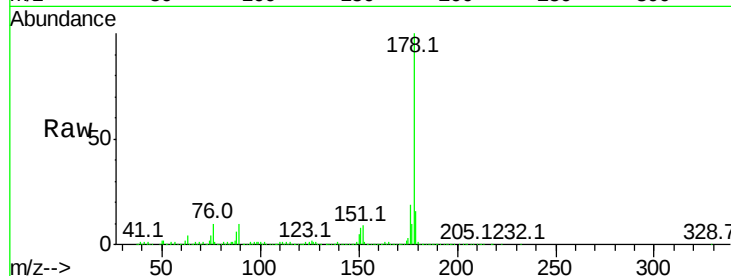
#71
 Anthracene
 Concen: 38.361 ng
 RT: 11.06 min Scan# 1560
 Delta R.T. -0.02 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-D

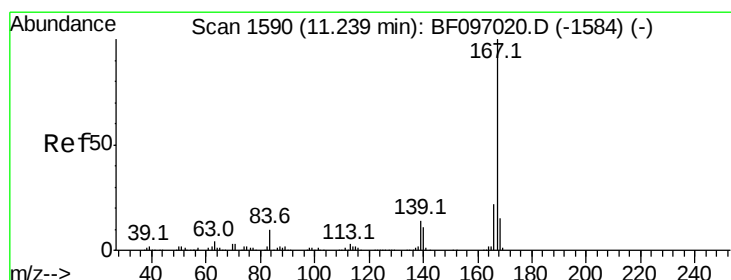
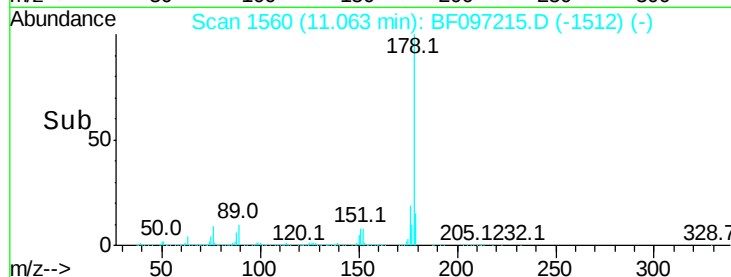
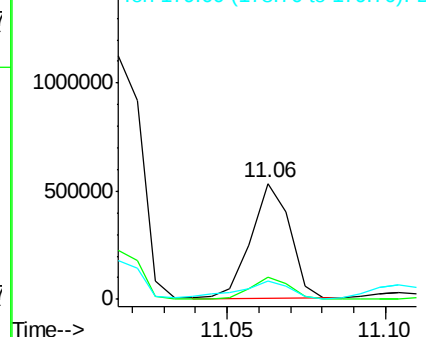
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.7	12.7	19.1

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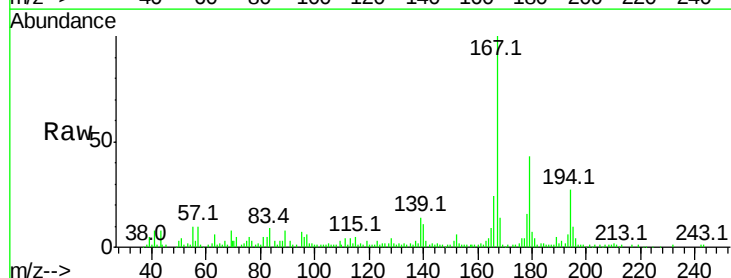


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

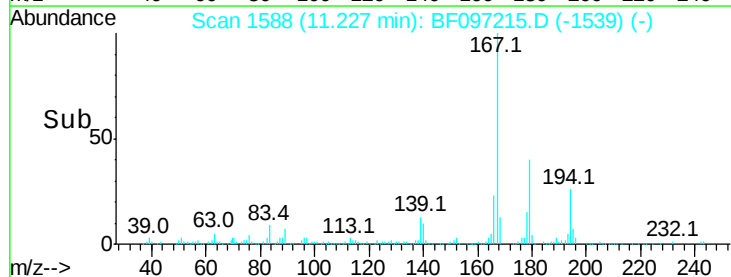
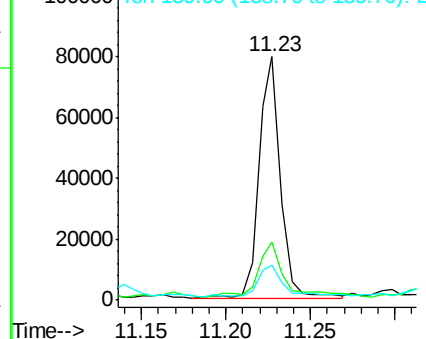


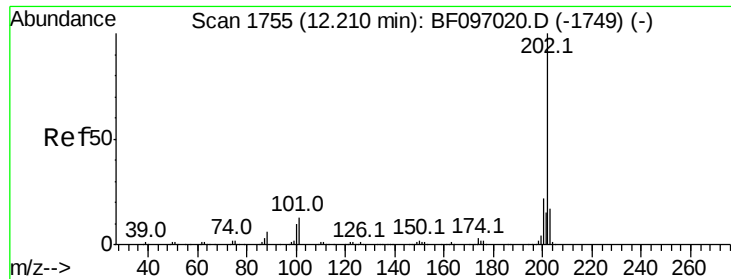
#72
 Carbazole
 Concen: 6.041 ng
 RT: 11.23 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.8	18.1	27.1
139	14.4	11.7	17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 119.824 ng

RT: 12.21 min Scan# 1755

Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA_F

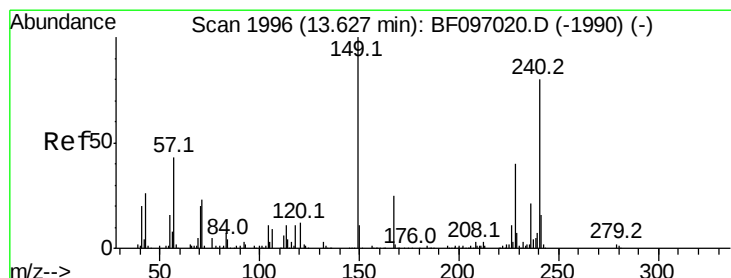
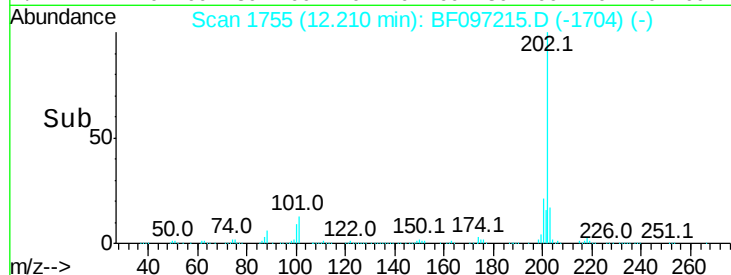
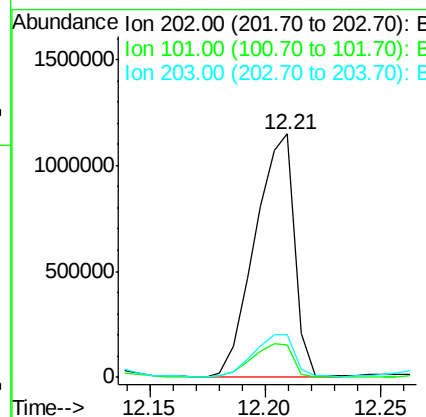
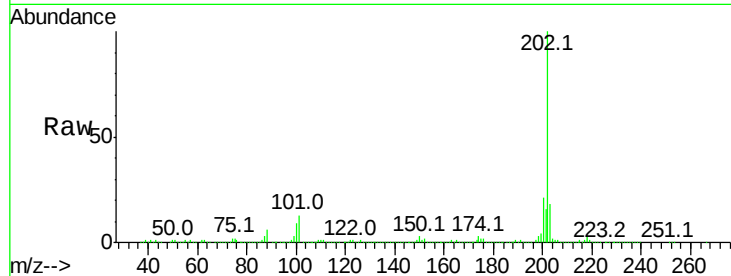
ClientSampleId :

CL-02-072717-D

Tot Ion:	202	Resp:	1358007
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	33.2
203	17.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

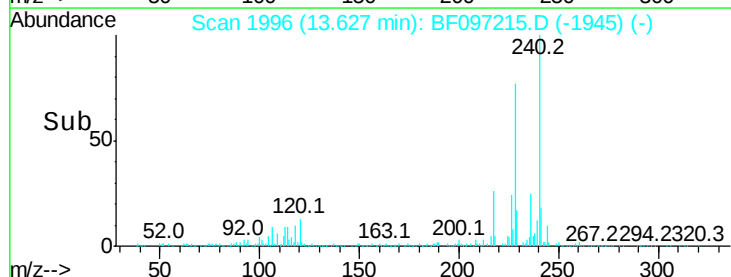
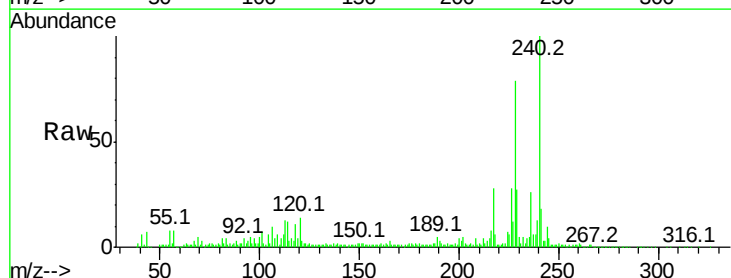
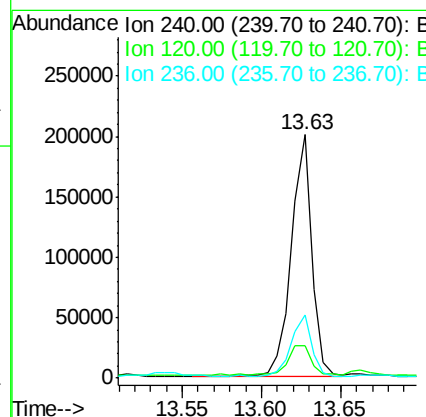
RT: 13.63 min Scan# 1996

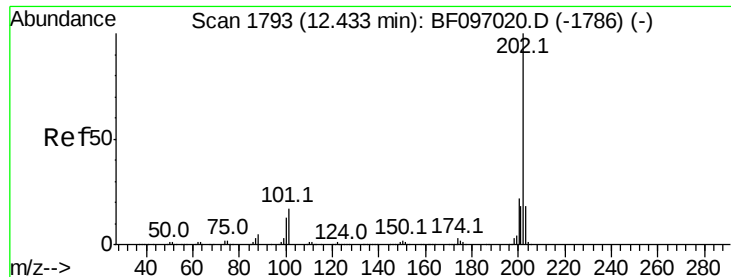
Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Tgt Ion:	240	Resp:	179311
Ion Ratio	Lower	Upper	
240	100		
120	13.6	5.8	8.8#
236	26.0	20.5	30.7





#77

Pvrene

Concen: 105.087 ng

RT: 12.43 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-D

Tot Ion:202 Resp: 1542635

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

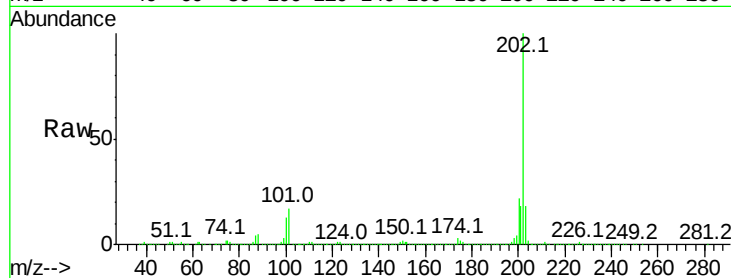
203 17.6 14.4 21.6

Manual Integrations

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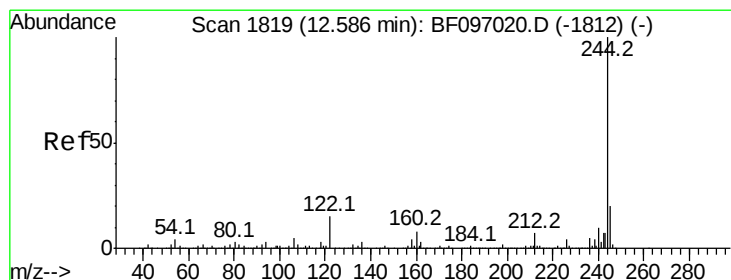
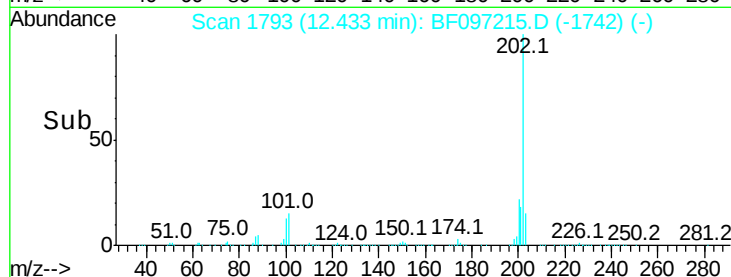
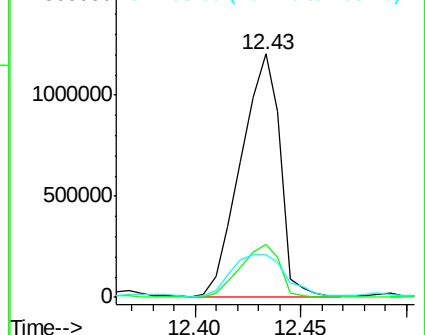
8/1/2017 5:44:45 PM



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: 48.699 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

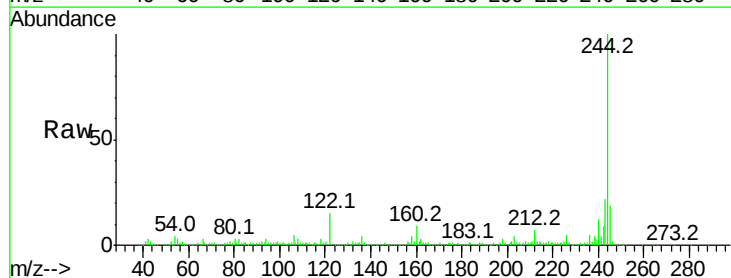
Tgt Ion:244 Resp: 428292

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

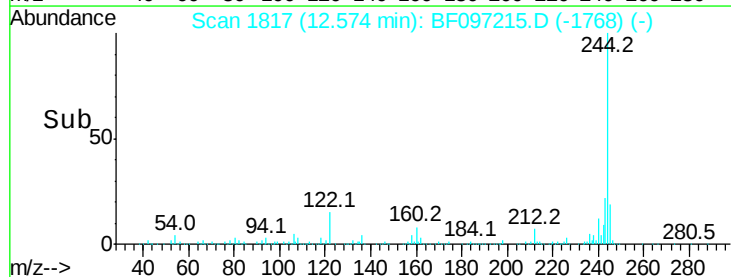
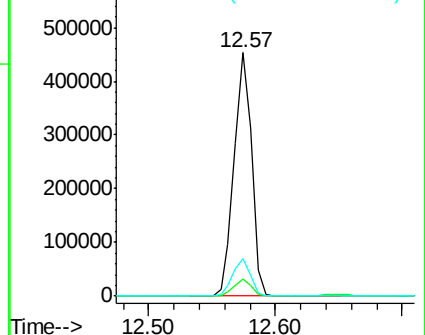
122 15.3 10.3 15.5

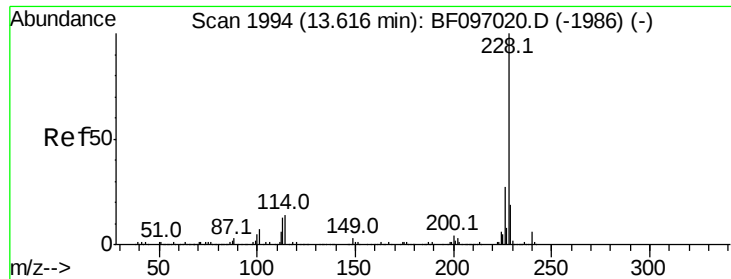


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





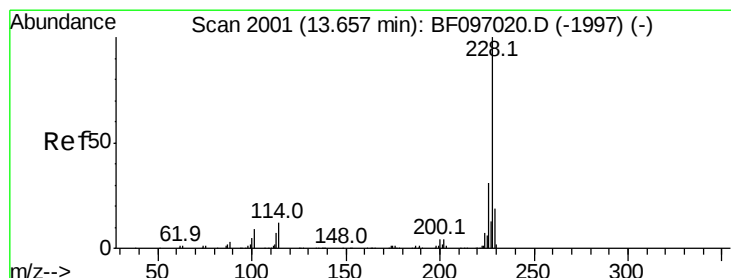
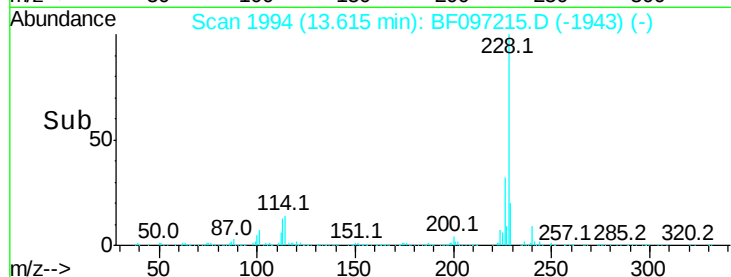
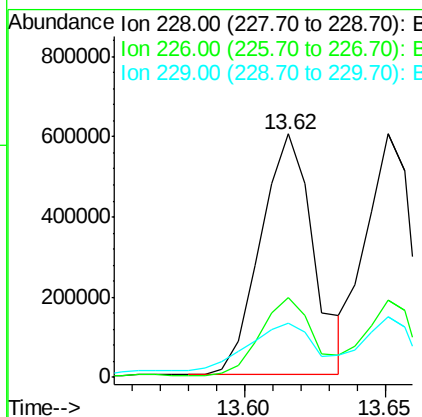
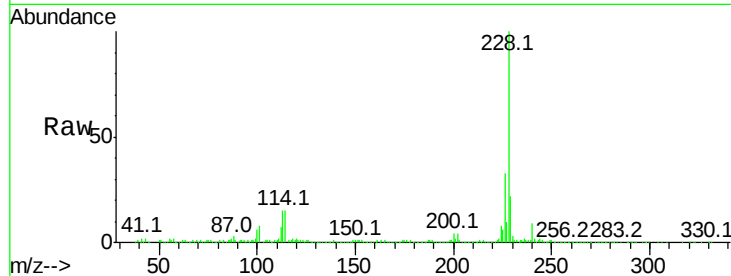
#80
Benzo(a)anthracene
Concen: 67.625 ng
RT: 13.62 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.0	22.6	33.8
229	22.2	16.3	24.5

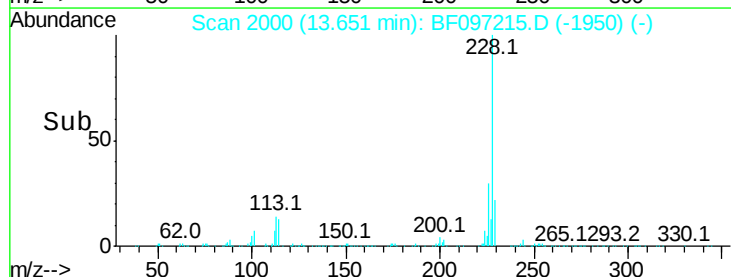
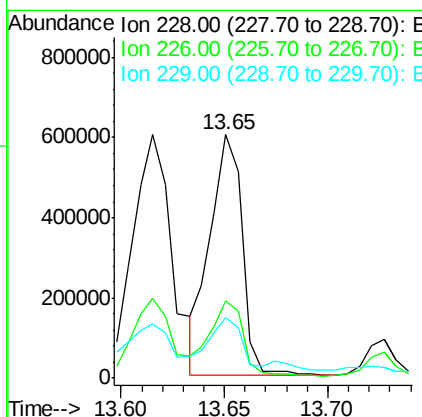
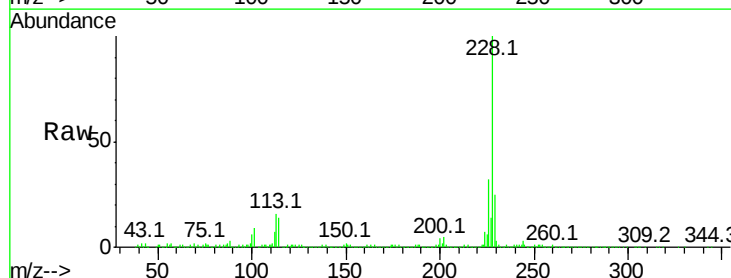
Manual Integrations
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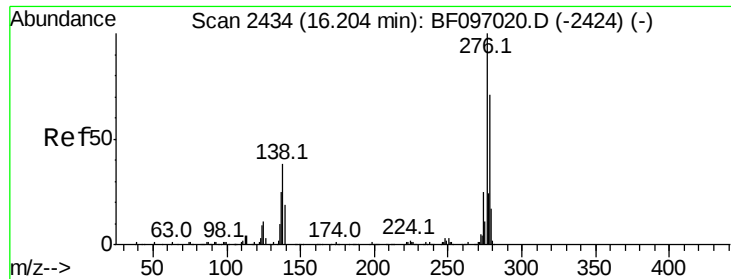
Sohil
8/1/2017 5:44:45 PM



#82
Chrysene
Concen: 58.381 ng m
RT: 13.65 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.9	37.3
229	25.1	15.8	23.6#





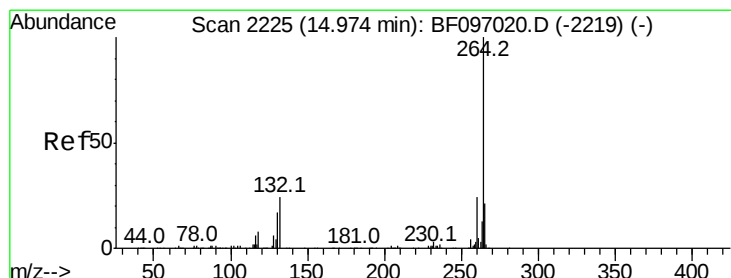
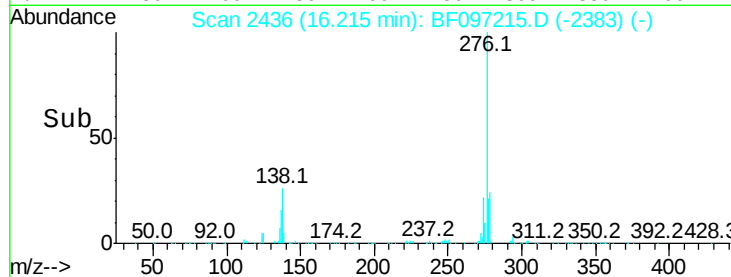
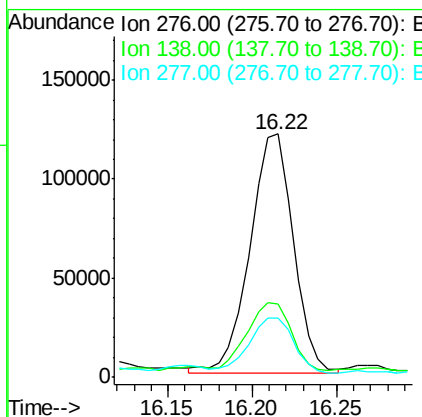
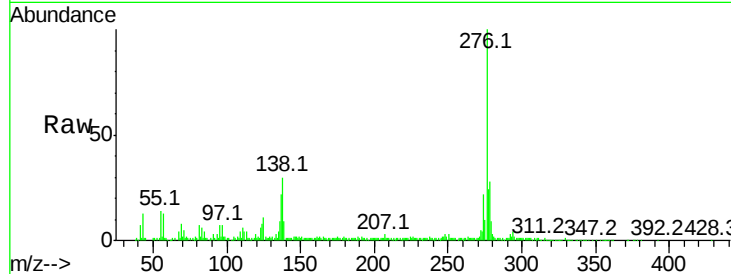
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 22.268 ng
 RT: 16.22 min Scan# 2436
 Delta R.T. 0.01 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-D

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.5	27.8	41.6
277	23.9	20.2	30.4

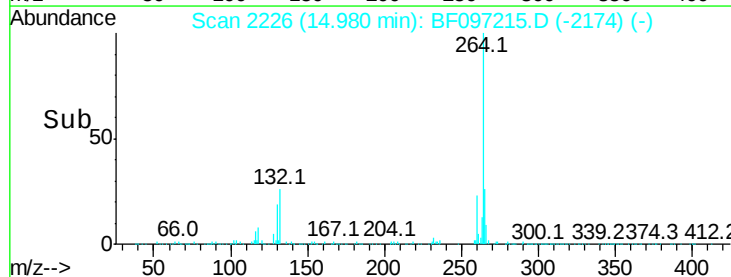
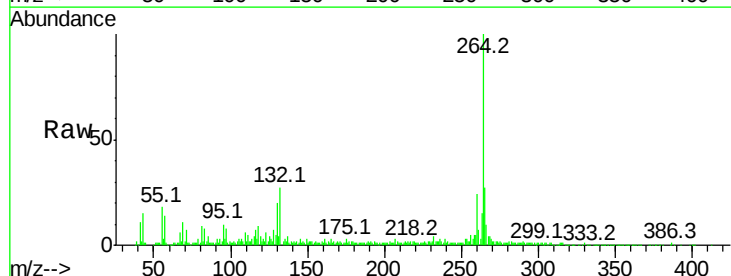
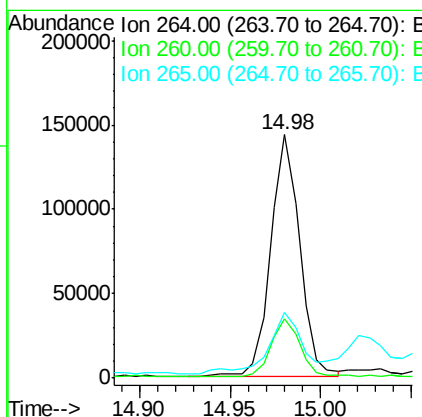
Manual Integrations
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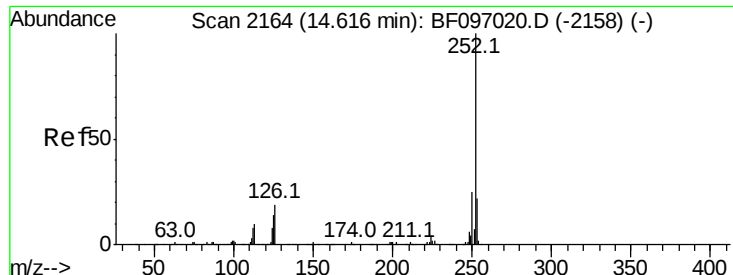
Sohil
 8/1/2017 5:44:45 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.98 min Scan# 2226
 Delta R.T. 0.01 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	27.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 71.744 ng m

RT: 14.63 min Scan# 2166

Delta R.T. 0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

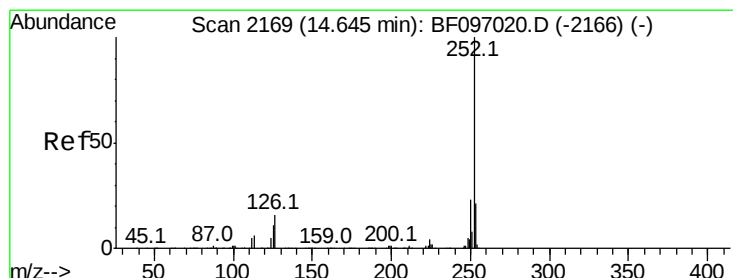
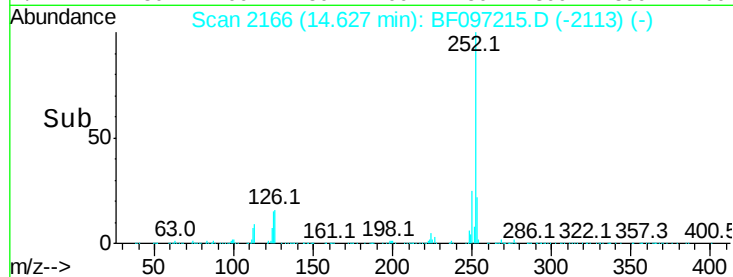
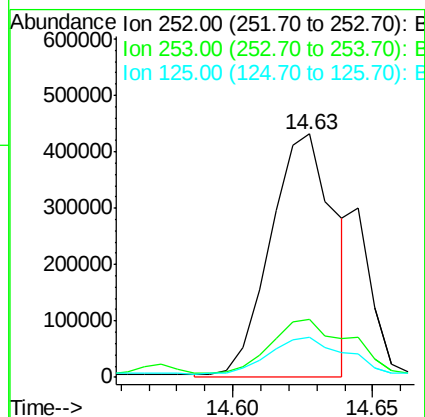
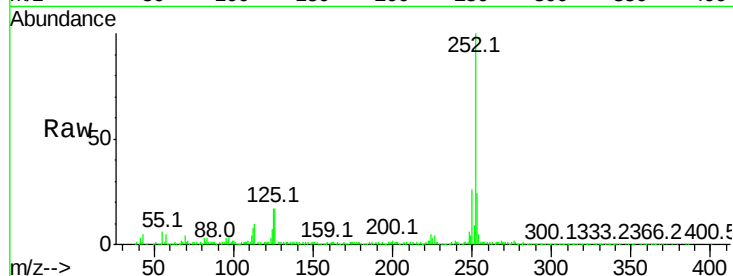
Instrument :
BNA_F

ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	16.7	9.8	14.8

Manual Integrations
APPROVED

Sohil
8/1/2017 5:44:45 PM



#88

Benzo(k)fluoranthene

Concen: 18.488 ng m

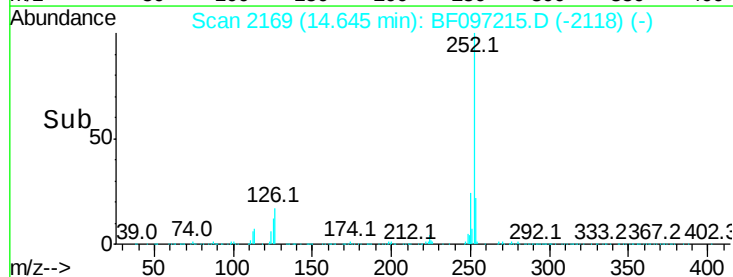
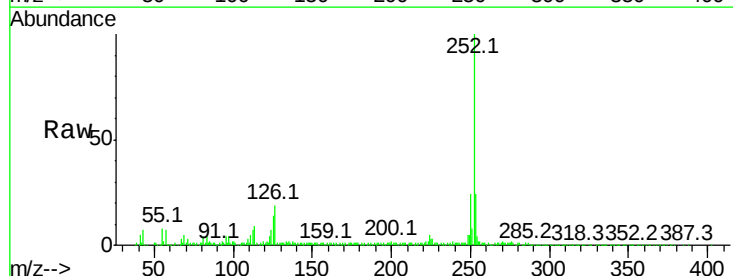
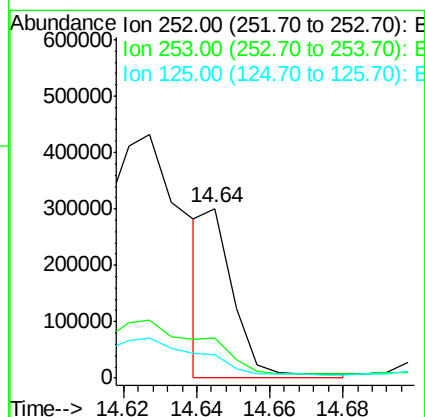
RT: 14.64 min Scan# 2169

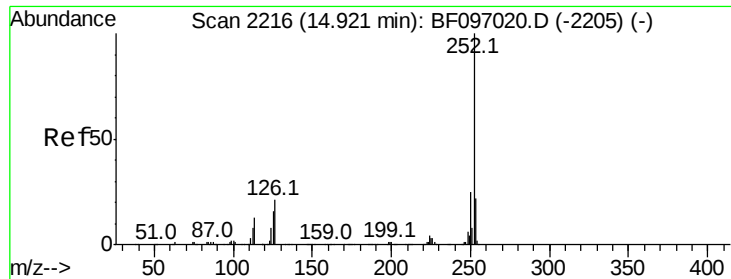
Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	14.0	13.1	19.7





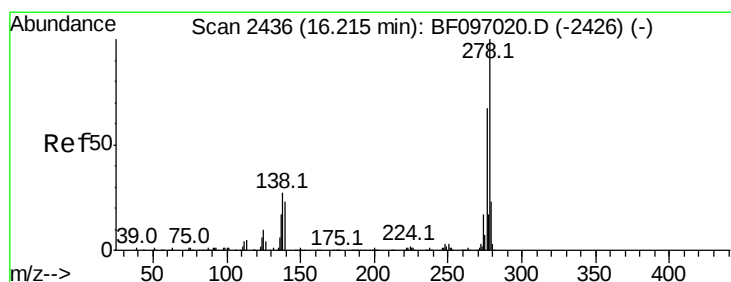
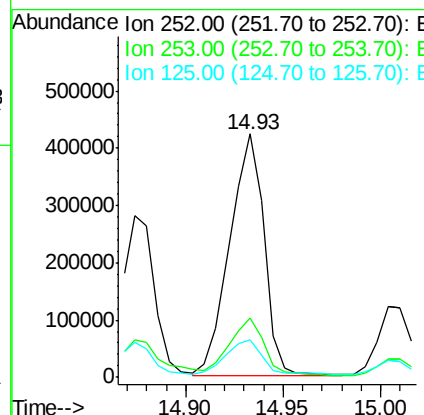
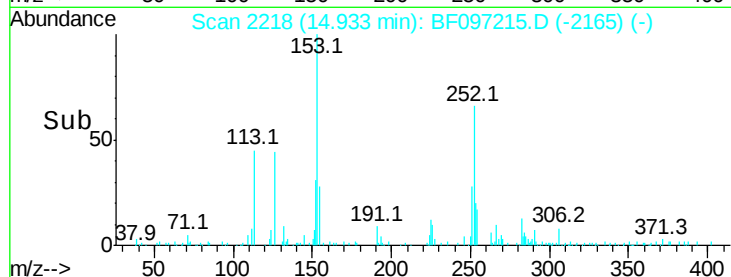
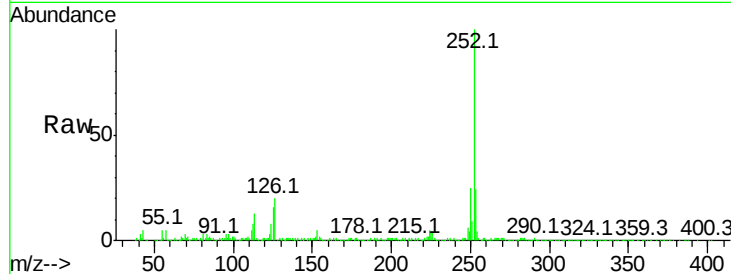
#89
Benzo(a)pyrene
Concen: 58.191 ng
RT: 14.93 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	15.5	11.0	16.4

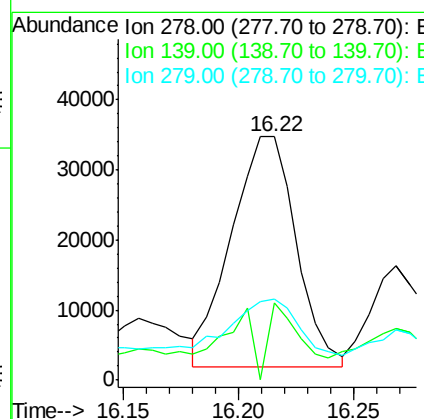
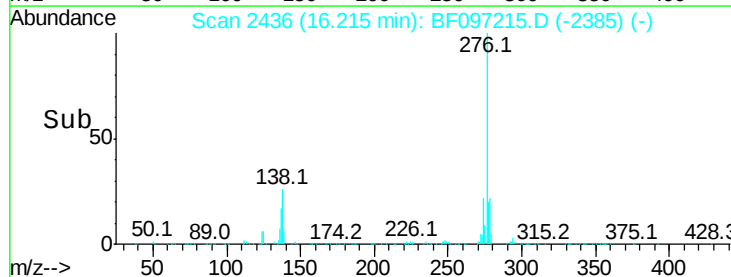
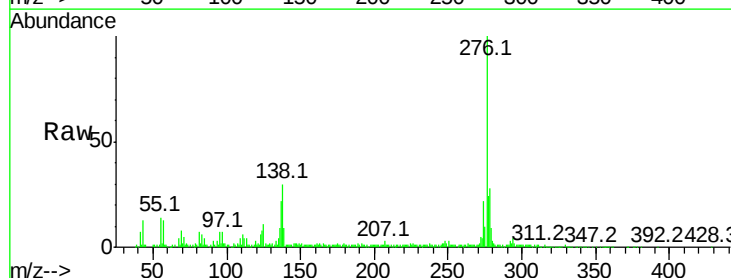
Manual Integrations
APPROVED

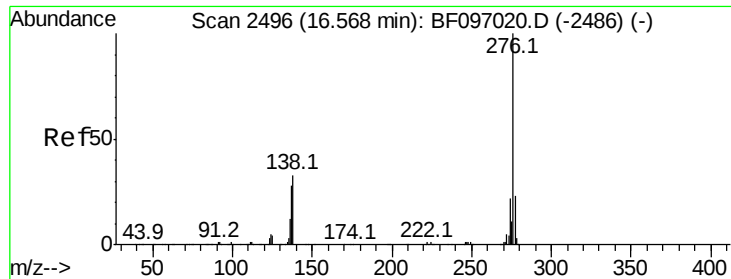
Sohil
8/1/2017 5:44:45 PM



#90
Dibenzo(a,h)anthracene
Concen: 8.922 ng
RT: 16.22 min Scan# 2436
Delta R.T. -0.00 min
Lab File: BF097215.D
Acq: 31 Jul 2017 18:37

Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.6	16.6	24.8#
279	33.2	19.3	28.9#





#91
 Benzo(a,h,i)perylene
 Concen: 27.519 ng
 RT: 16.58 min Scan# 2498
 Delta R.T. 0.01 min
 Lab File: BF097215.D
 Acq: 31 Jul 2017 18:37

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-D

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.6	28.0
138	30.2	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/1/2017 5:44:45 PM

