

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097213.D
 Acq On : 31 Jul 2017 17:42
 Operator : SJ/JU
 Sample : I4488-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Sohil
 8/1/2017 5:44:41 PM

Quant Time: Aug 01 11:54:00 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	112308	20.00	ng	-0.02
21) Naphthalene-d8	7.76	136	472045	20.00	ng	-0.02
38) Acenaphthene-d10	9.51	164	156093	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	219770	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	200810	20.00	ng	-0.01
86) Perylene-d12	14.97	264	185289	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	408135	54.78	ng	-0.01
7) Phenol-d6	6.15	99	473228	55.64	ng	-0.02
23) Nitrobenzene-d5	7.05	82	255154	31.71	ng	-0.03
41) 2,4,6-Tribromophenol	10.30	330	58661	47.56	ng	-0.02
44) 2-Fluorobiphenyl	8.84	172	453748	49.33	ng	-0.03
78) Terphenyl-d14	12.57	244	270044	27.42	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.16	94	26200	2.597	ng	79
31) Naphthalene	7.78	128	56987	2.561	ng	99
37) 2-Methylnaphthalene	8.47	142	84827	6.021	ng	98
48) Acenaphthylene	9.37	152	130028	8.634	ng	98
49) Dimethylphthalate	9.24	163	78873	6.654	ng	# 99
51) Acenaphthene	9.54	154	104430	11.773	ng	98
54) Dibenzofuran	9.72	168	62934	5.326	ng	# 89
57) Fluorene	10.05	166	175749	19.791	ng	97
70) Phenanthrene	11.01	178	658565	55.927	ng	99
71) Anthracene	11.06	178	234265	19.424	ng	98
72) Carbazole	11.22	167	35171	2.965	ng	93
74) Fluoranthene	12.20	202	673113	58.350	ng	99
77) Pvrene	12.42	202	785770	47.797	ng	100
80) Benzo(a)anthracene	13.61	228	325518	25.053	ng	# 90
82) Chrysene	13.64	228	310239m	24.452	ng	
85) Indeno(1,2,3-cd)pyrene	16.20	276	107076	9.842	ng	97
87) Benzo(b)fluoranthene	14.62	252	301195m	27.042	ng	
88) Benzo(k)fluoranthene	14.63	252	98283m	9.260	ng	
89) Benzo(a)pvrene	14.92	252	261710	25.673	ng	# 96
90) Dibenzo(a,h)anthracene	16.20	278	28766	3.441	ng	# 65
91) Benzo(g,h,i)perylene	16.57	276	104743	11.948	ng	98

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

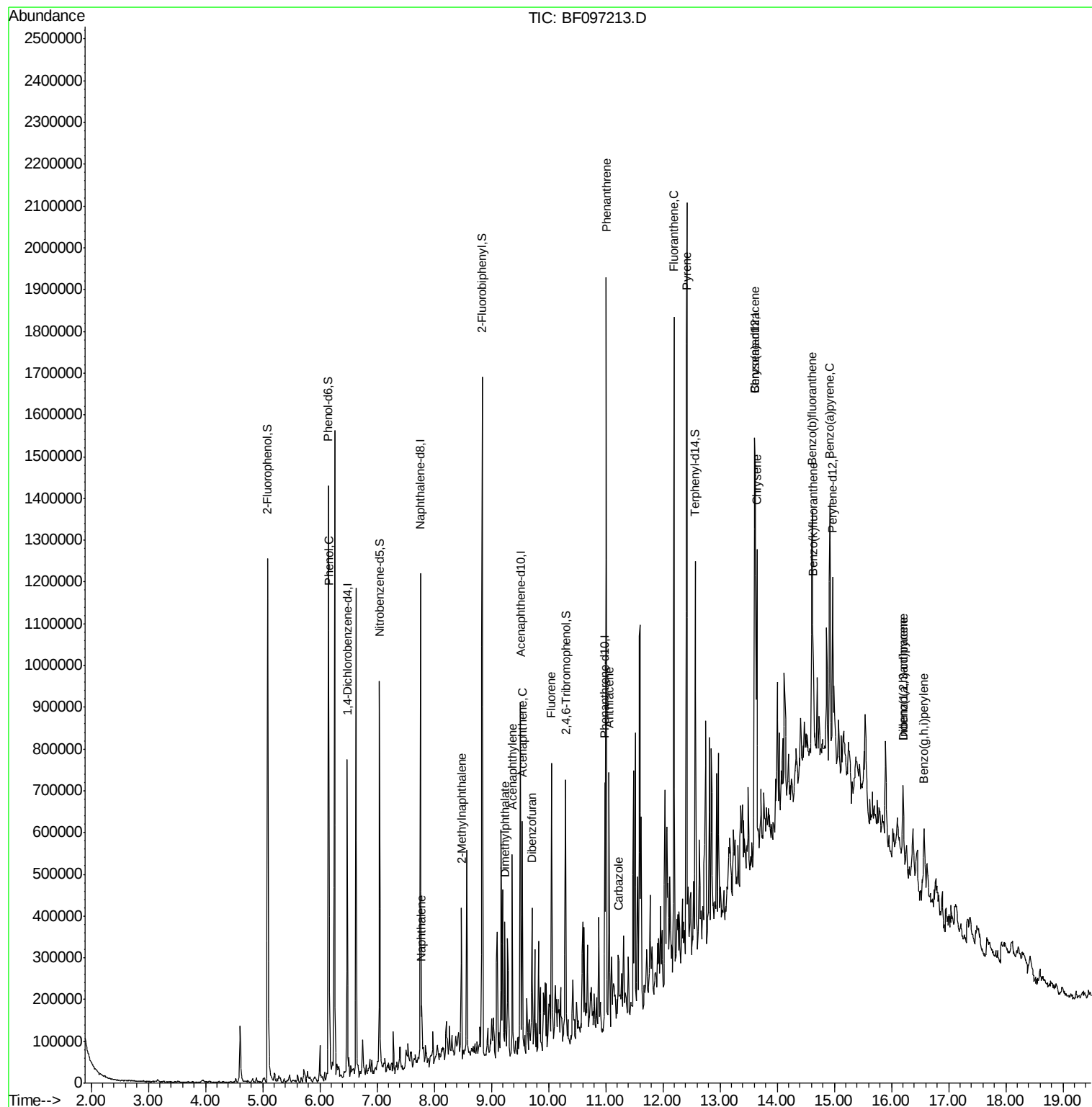
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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ALS Vial : 14 Sample Multiplier: 1

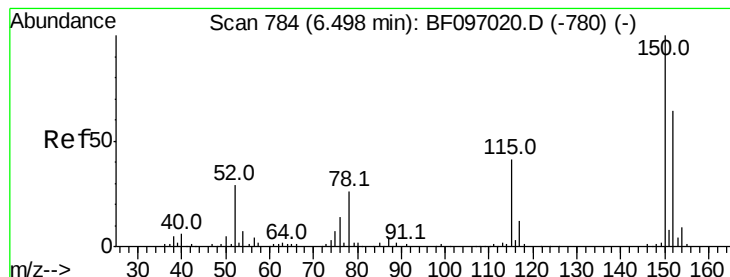
Instrument :
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Manual Integrations
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8/1/2017 5:44:41 PM

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#1

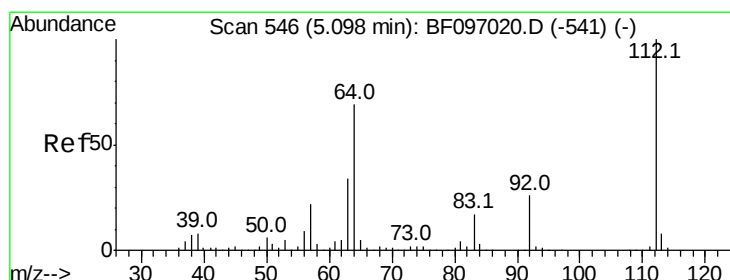
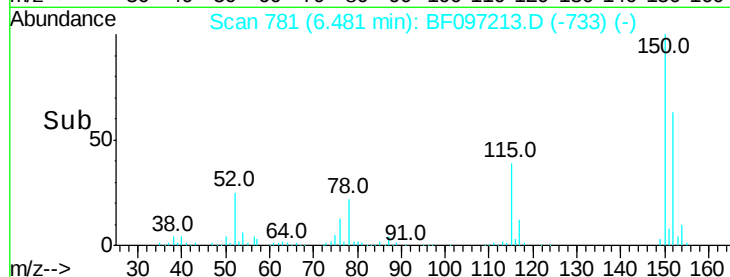
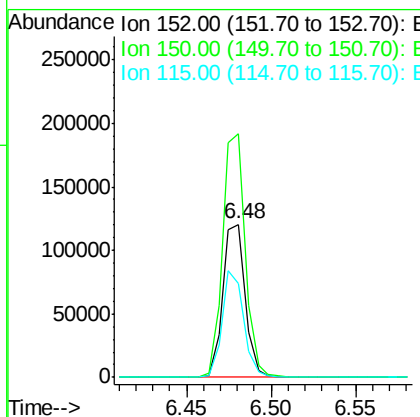
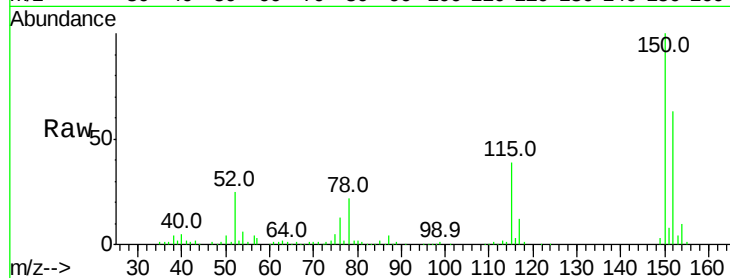
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.48 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	126.2	189.2
115	61.3	52.2	78.2

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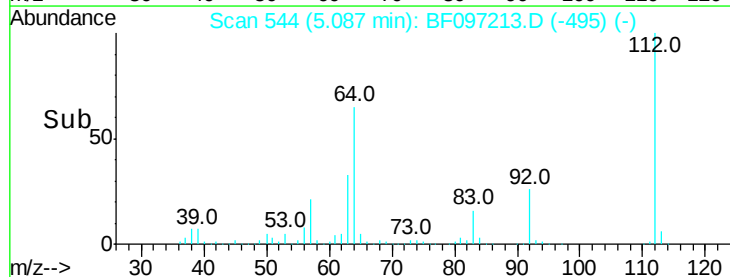
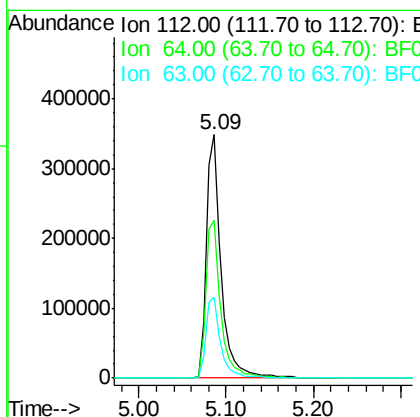
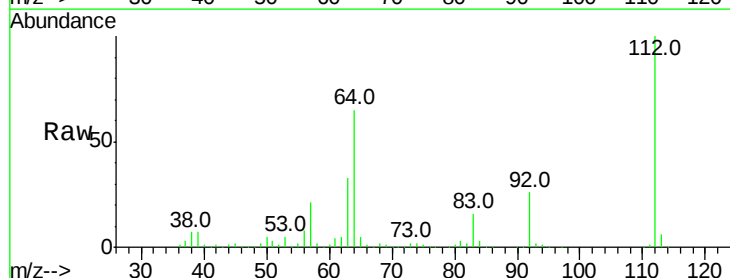
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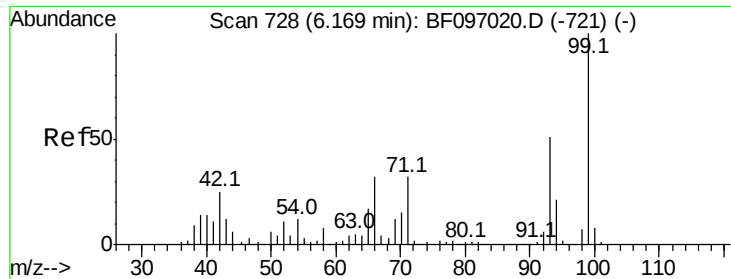


#5

2-Fluorophenol
Concen: 54.783 ng
RT: 5.09 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.8	46.0	69.0
63	33.3	23.4	35.0





#7

Phenol-d6

Concen: 55.641 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-A

Tot Ion: 99 Resp: 473228

Ion Ratio Lower Upper

99 100

42 23.7 13.5 20.3#

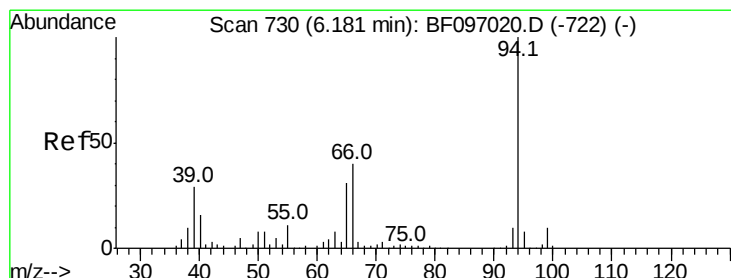
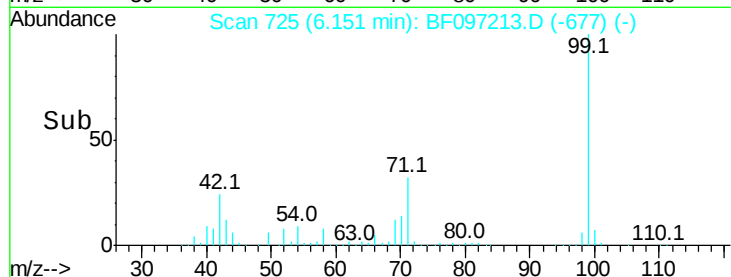
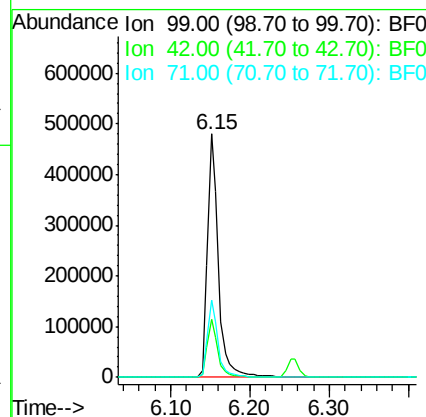
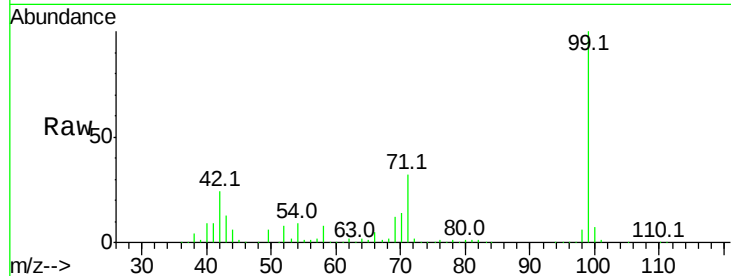
71 31.8 24.5 36.7

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#10

Phenol

Concen: 2.597 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

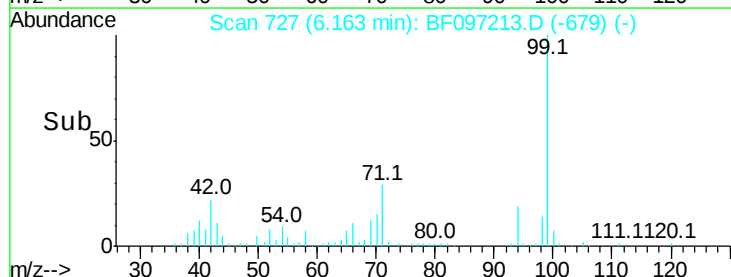
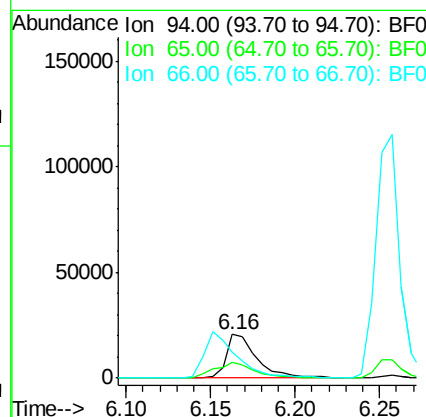
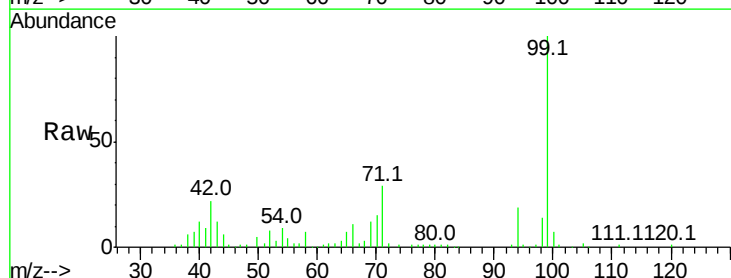
Tgt Ion: 94 Resp: 26200

Ion Ratio Lower Upper

94 100

65 36.9 9.9 49.9

66 59.8 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: BF097213.D

Acq: 31 Jul 2017 17:42

Instrument :

BNA_F

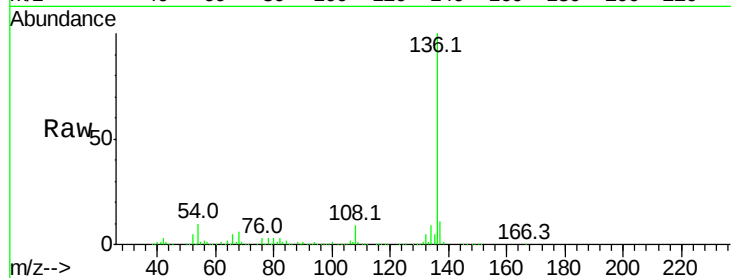
ClientSampleId :

CL-02-072717-A

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	10.1	4.9	7.3	
68	5.7	4.1	6.1	

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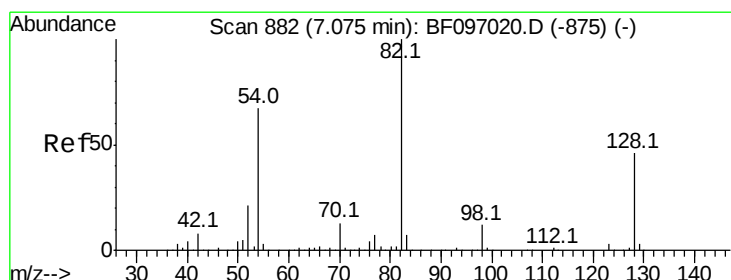
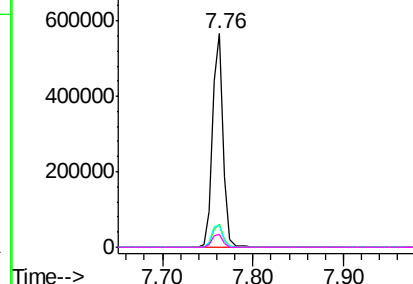
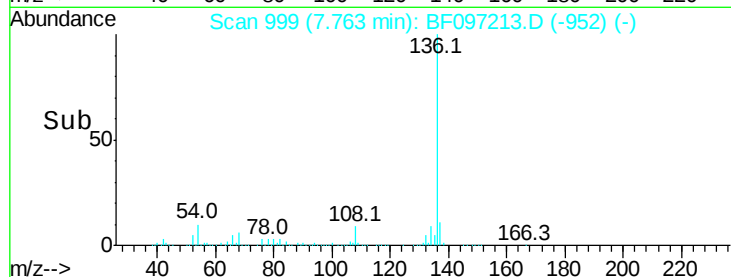


Abundance Ion 136.00 (135.70 to 136.70): E

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: 31.710 ng

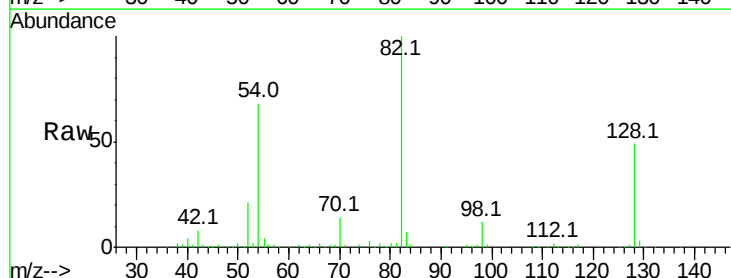
RT: 7.05 min Scan# 877

Delta R.T. -0.03 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

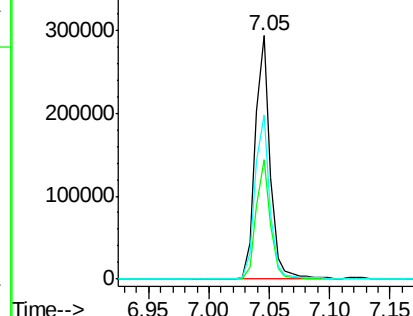
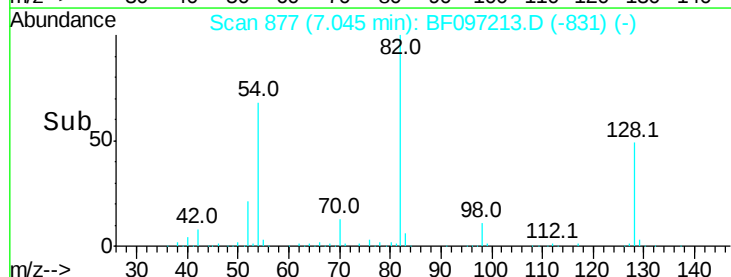
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.9	34.0	51.0	
54	67.5	42.2	63.2	

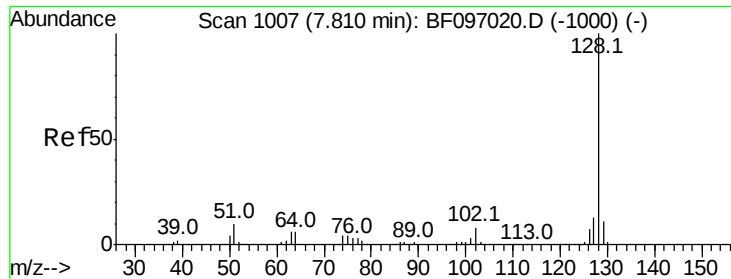


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





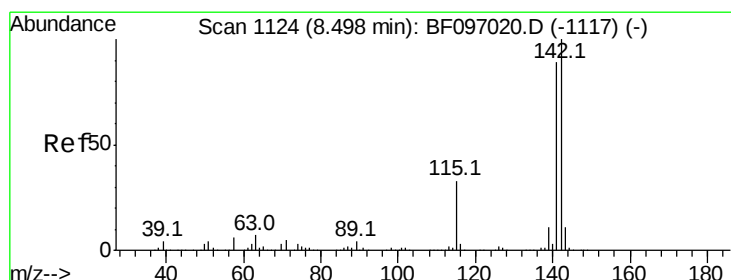
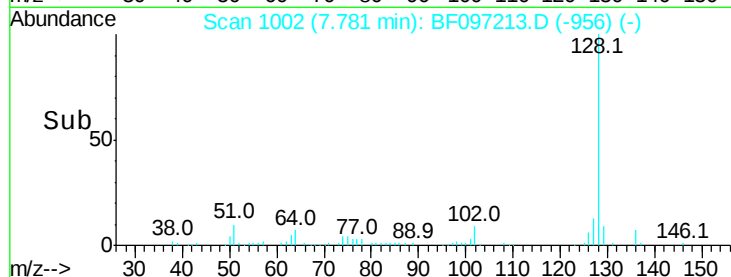
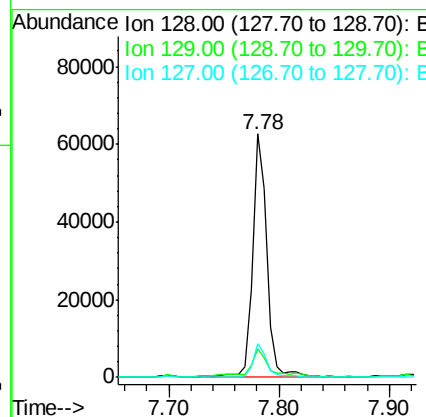
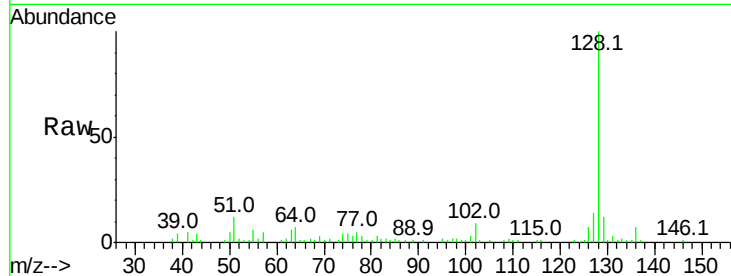
#31
Naphthalene
Concen: 2.561 ng
RT: 7.78 min Scan# 1002
Delta R.T. -0.03 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.0	13.6
127	13.6	10.8	16.2

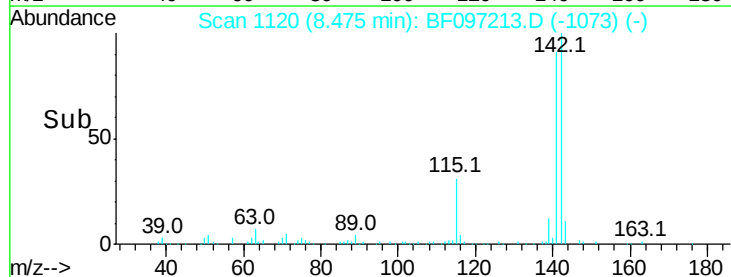
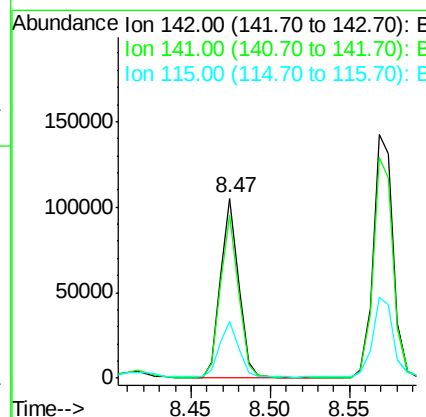
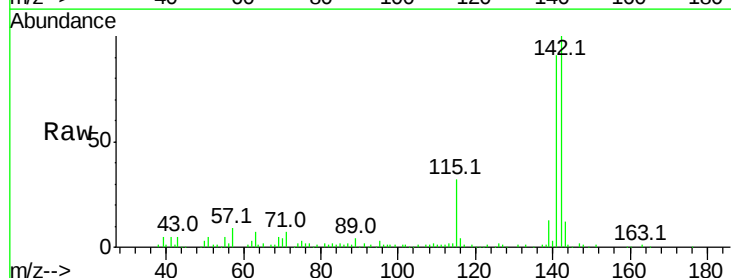
Manual Integrations
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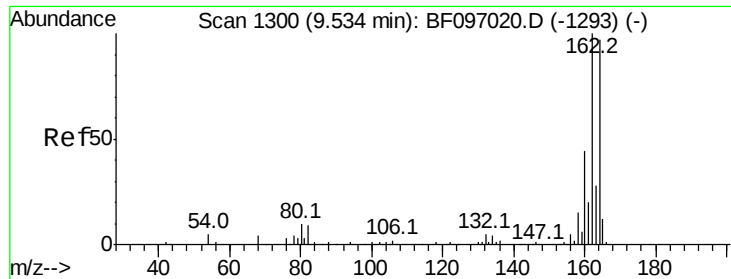
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#37
2-Methylnaphthalene
Concen: 6.021 ng
RT: 8.47 min Scan# 1120
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.3	106.9
115	31.9	27.1	40.7





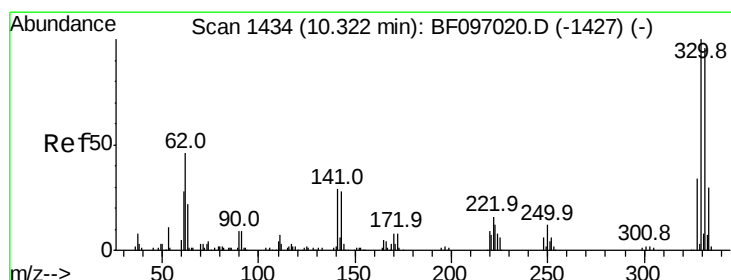
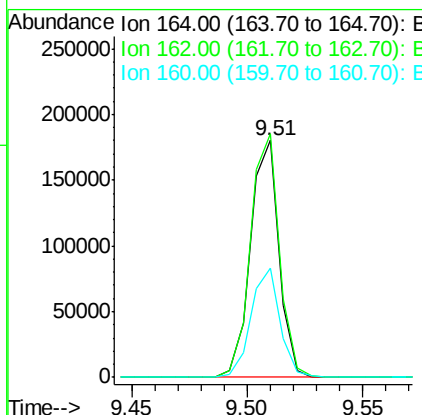
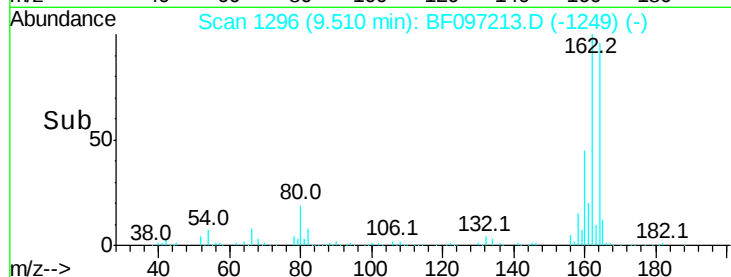
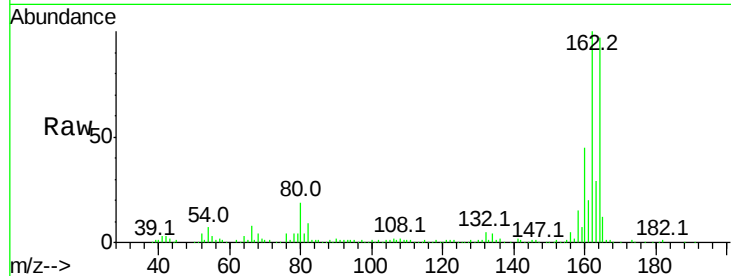
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.51 min Scan# 1296
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.6	123.8
160	46.0	36.2	54.2

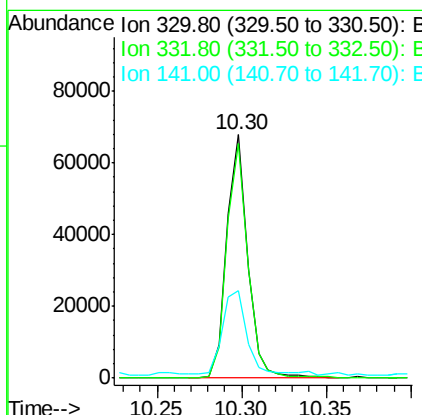
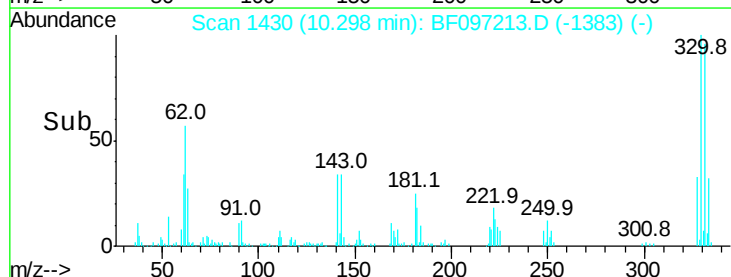
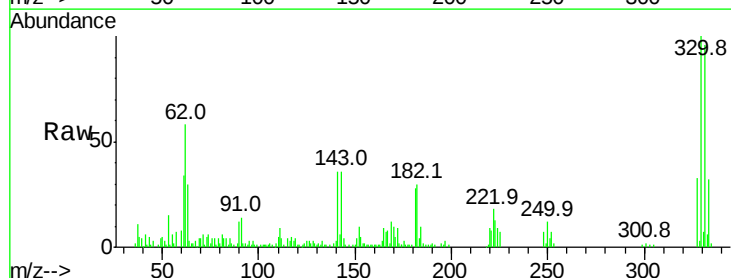
Manual Integrations
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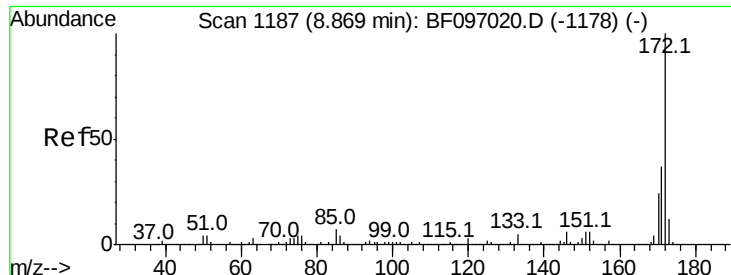
Sohil
8/1/2017 5:44:41 PM



#41
2,4,6-Tribromophenol
Concen: 47.565 ng
RT: 10.30 min Scan# 1430
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	39.1	31.4	47.2





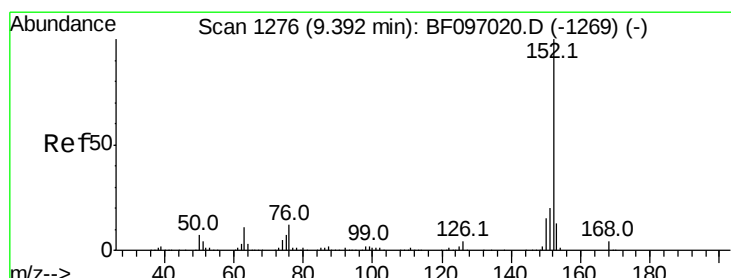
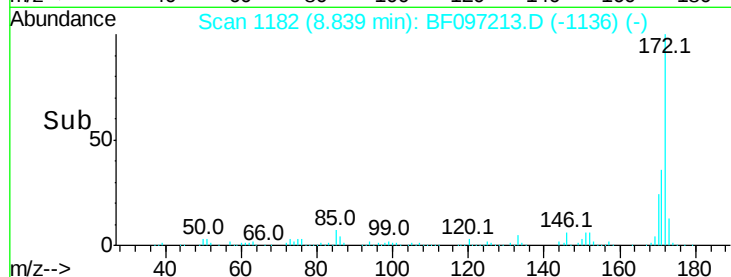
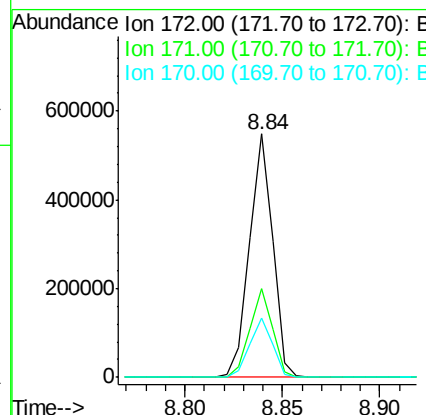
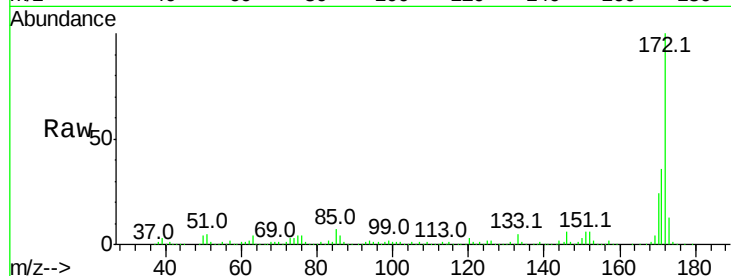
#44
2-Fluorobiphenyl
Concen: 49.333 ng
RT: 8.84 min Scan# 1182
Delta R.T. -0.03 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Resp	Lower	Upper
172	100	453748		
171	36.4		29.6	44.4
170	24.2		19.8	29.8

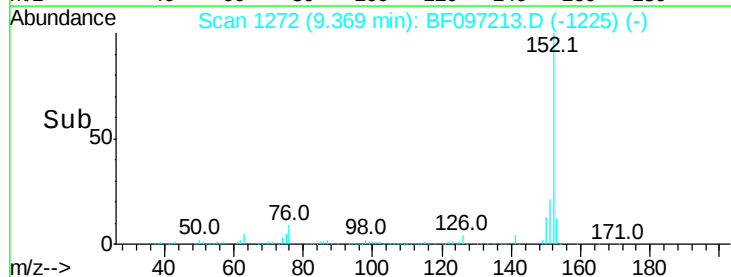
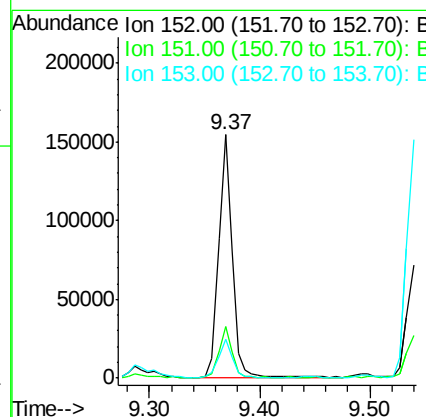
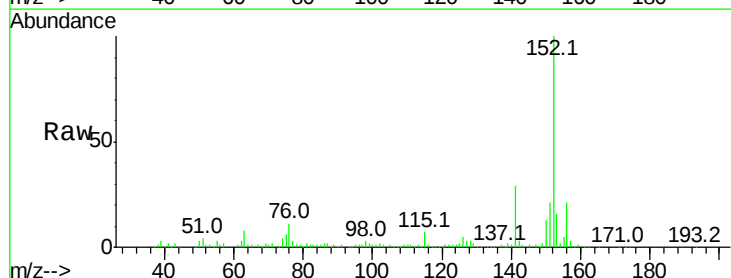
Manual Integrations
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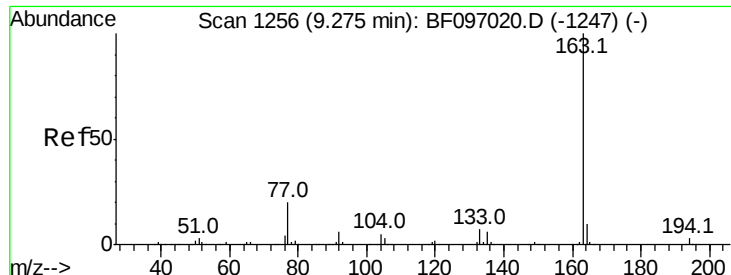
Sohil
8/1/2017 5:44:41 PM



#48
Acenaphthylene
Concen: 8.634 ng
RT: 9.37 min Scan# 1272
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	130028		
151	21.1		16.8	25.2
153	15.9		10.8	16.2





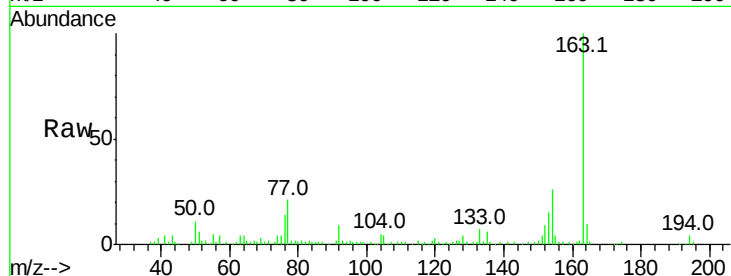
#49
Dimethylphthalate
Concen: 6.654 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.04 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

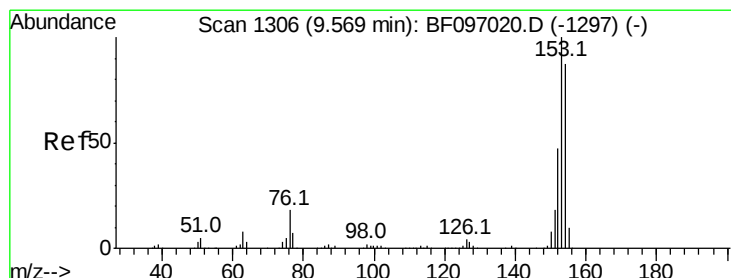
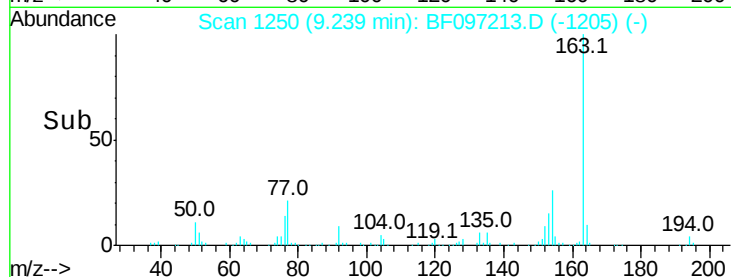
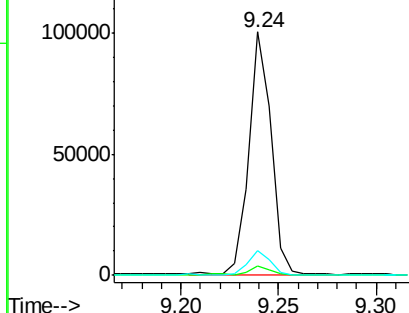
Tot Ion	Ratio	Resp	Lower	Upper
163	100	78873		
194	4.0		2.6	4.0#
164	10.1		8.4	12.6

Manual Integrations
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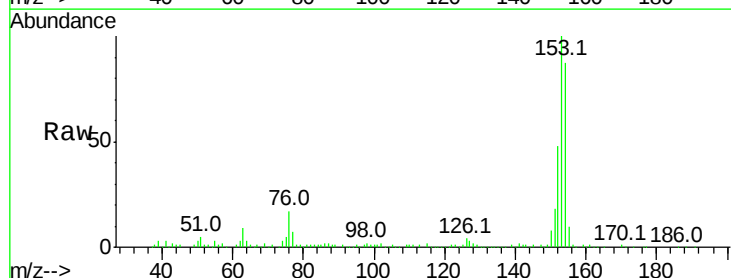


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

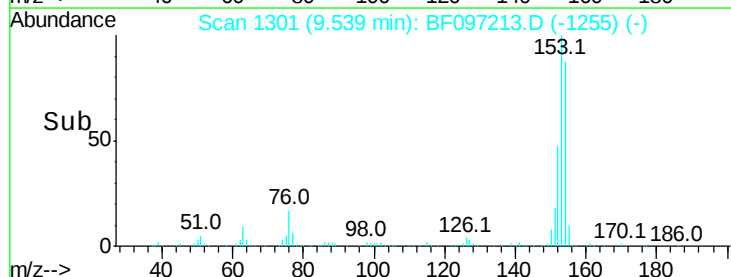
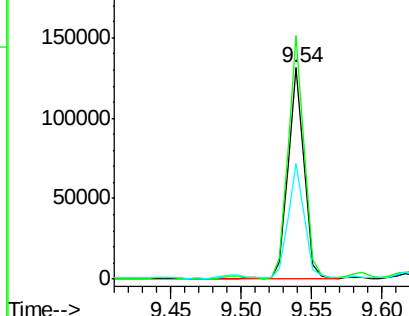


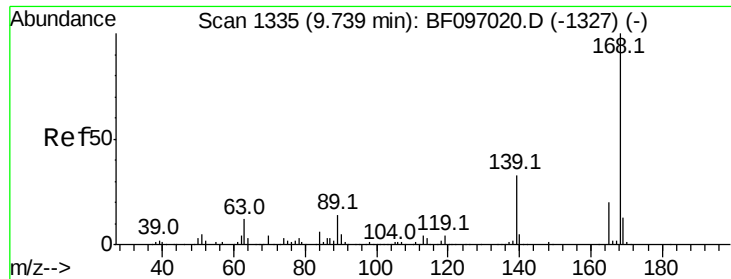
#51
Acenaphthene
Concen: 11.773 ng
RT: 9.54 min Scan# 1301
Delta R.T. -0.03 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	104430		
153	115.3		90.5	135.7
152	54.9		43.6	65.4



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





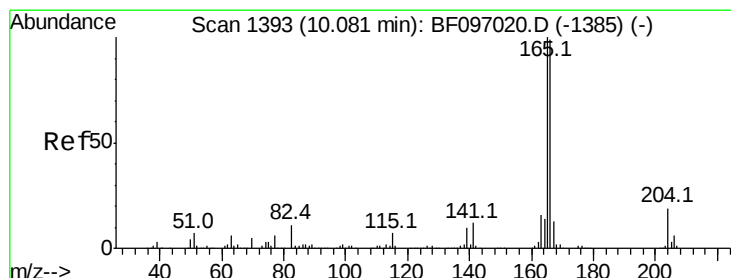
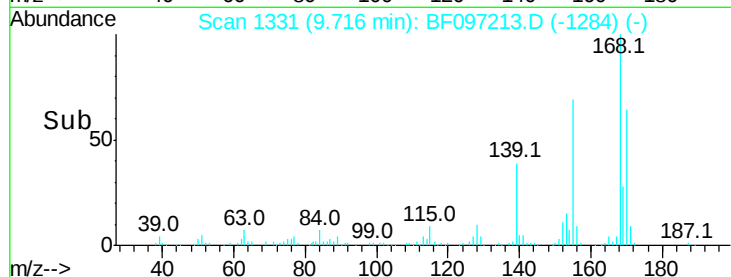
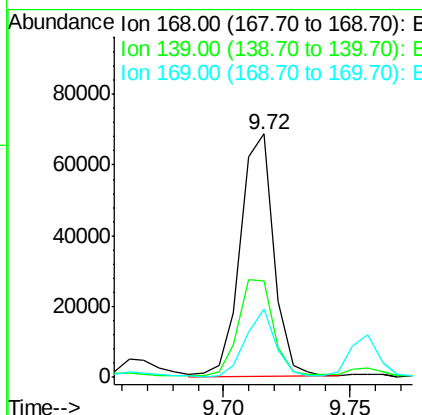
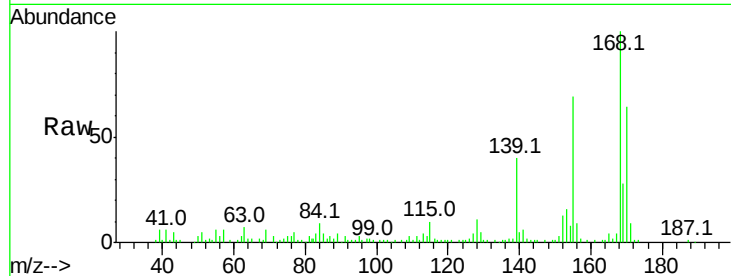
#54
Dibenzofuran
Concen: 5.326 ng
RT: 9.72 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.6	30.6	45.8
169	28.2	10.8	16.2

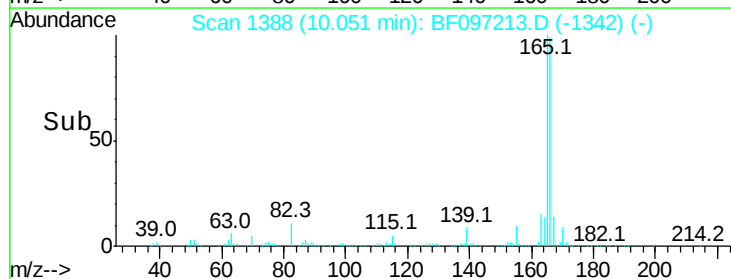
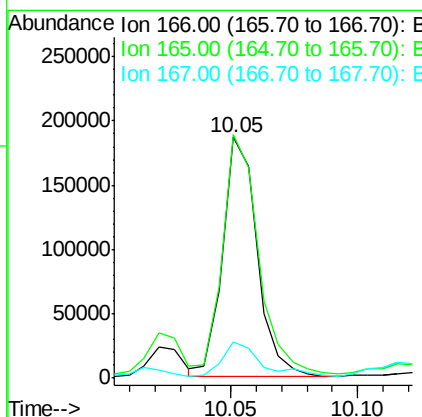
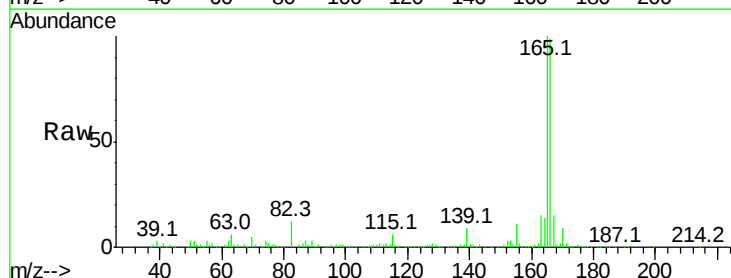
Manual Integrations
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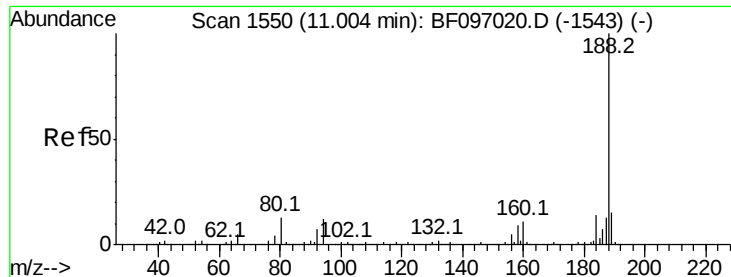
Sohil
8/1/2017 5:44:41 PM



#57
Fluorene
Concen: 19.791 ng
RT: 10.05 min Scan# 1388
Delta R.T. -0.03 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.3	78.8	118.2
167	14.9	10.6	16.0





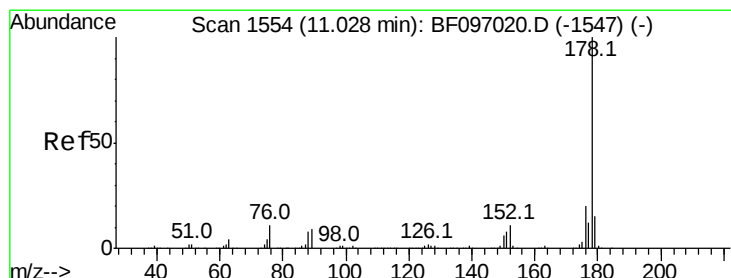
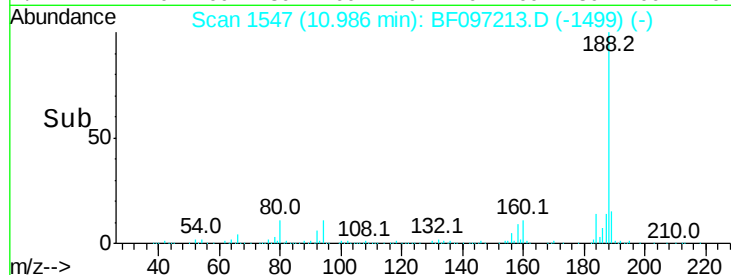
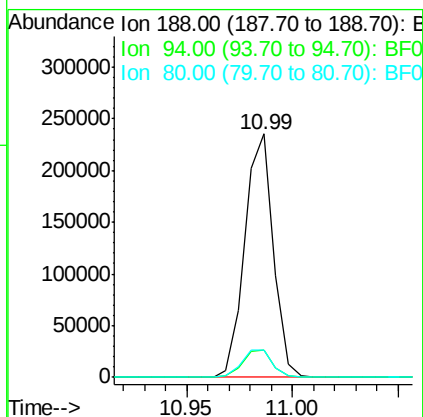
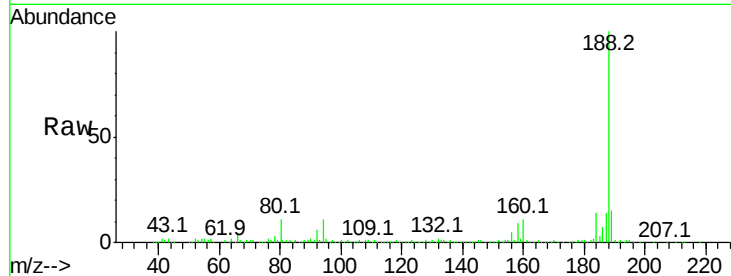
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Resp	Lower	Upper
188	100	219770		
94	11.0		9.4	14.2
80	11.4		10.2	15.2

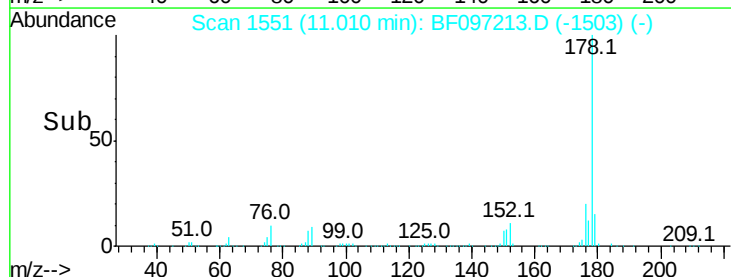
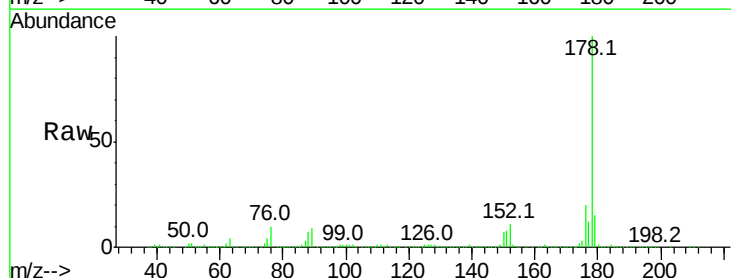
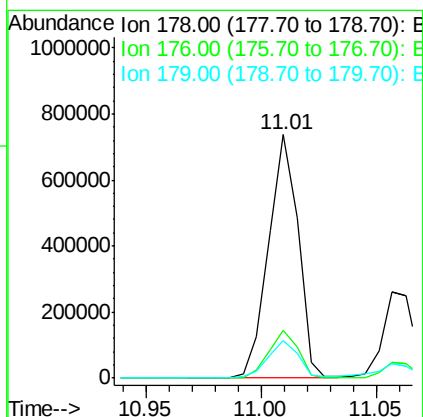
Manual Integrations
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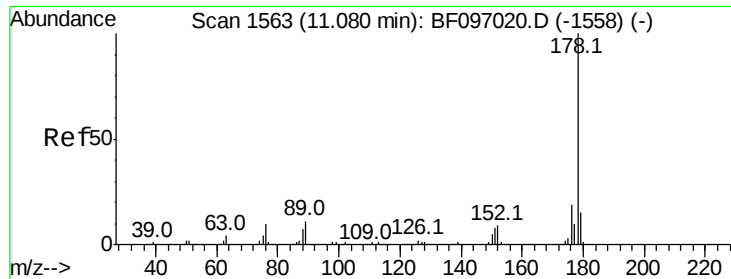
Sohil
8/1/2017 5:44:41 PM



#70
Phenanthrene
Concen: 55.927 ng
RT: 11.01 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	658565		
176	19.8		16.2	24.4
179	15.4		12.6	19.0





#71

Anthracene

Concen: 19.424 ng

RT: 11.06 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Instrument :

BNA_F

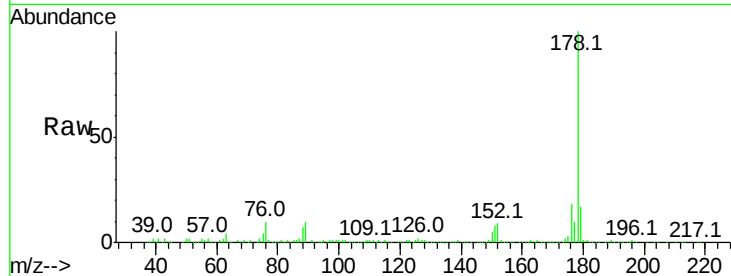
ClientSampleId :

CL-02-072717-A

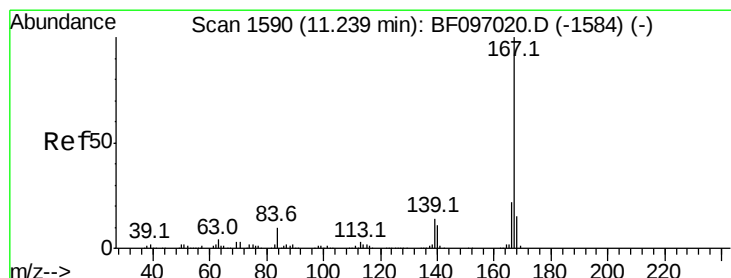
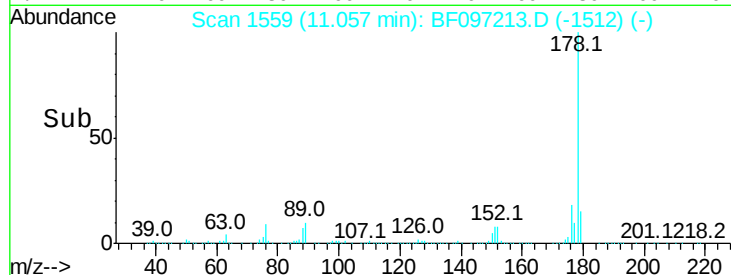
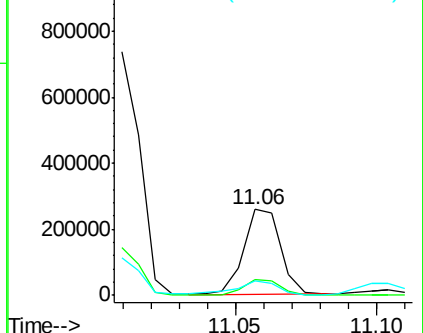
Tot Ion:	178	Resp:	234265
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.8	23.8
179	16.6	12.7	19.1

Manual Integrations
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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: 2.965 ng

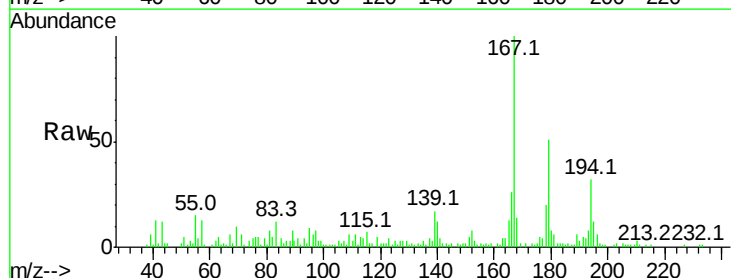
RT: 11.22 min Scan# 1587

Delta R.T. -0.02 min

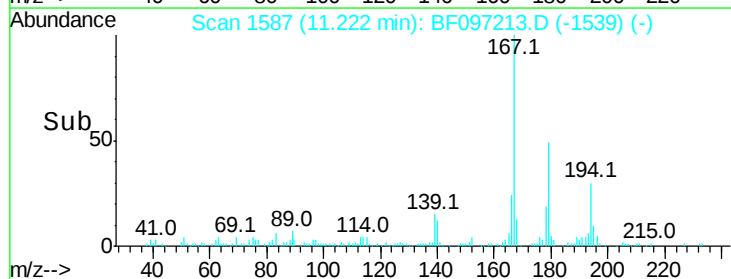
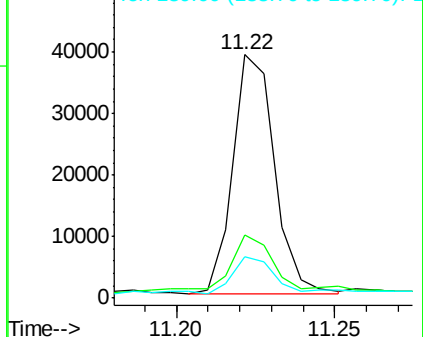
Lab File: BF097213.D

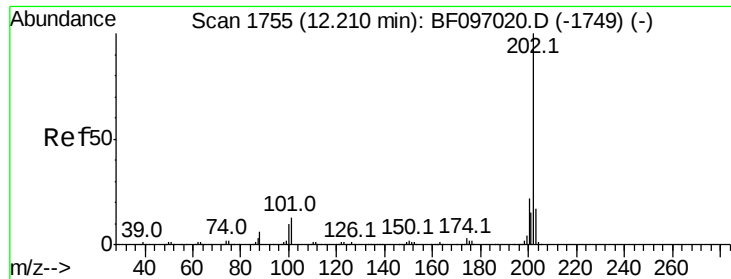
Acq: 31 Jul 2017 17:42

Tgt Ion:	167	Resp:	35171
Ion Ratio	Lower	Upper	
167	100		
166	26.2	18.1	27.1
139	17.0	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





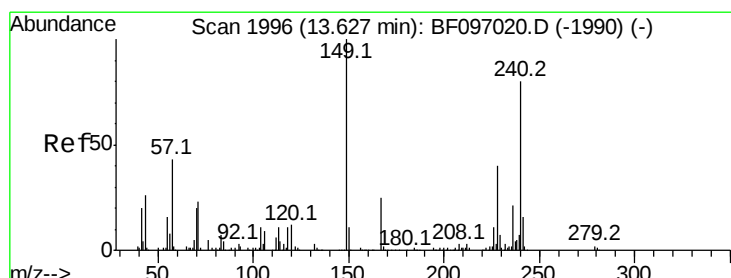
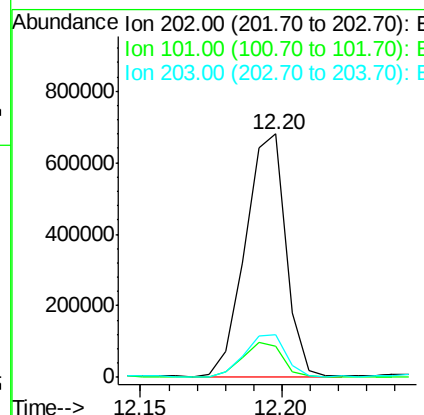
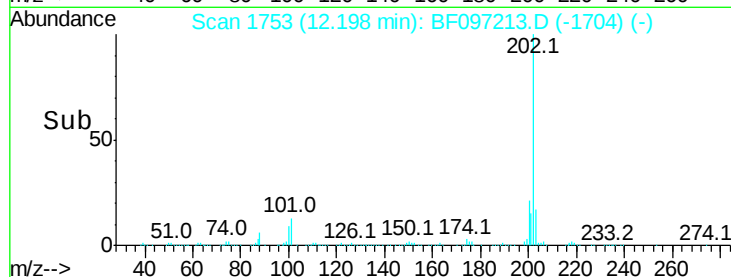
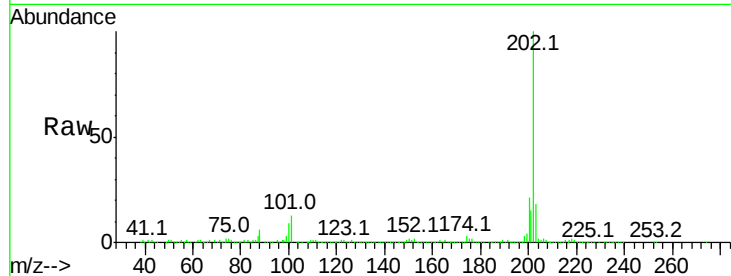
#74
 Fluoranthene
 Concen: 58.350 ng
 RT: 12.20 min Scan# 1753
 Delta R.T. -0.01 min
 Lab File: BF097213.D
 Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.9	0.0	33.2
203	17.5	0.0	38.1

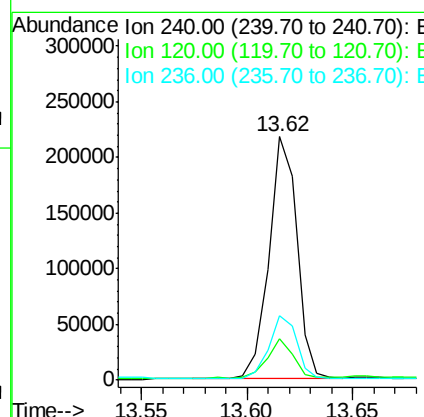
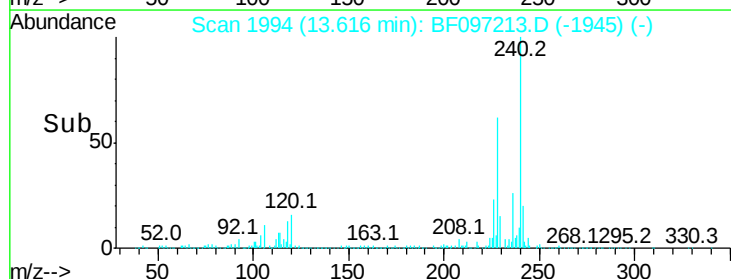
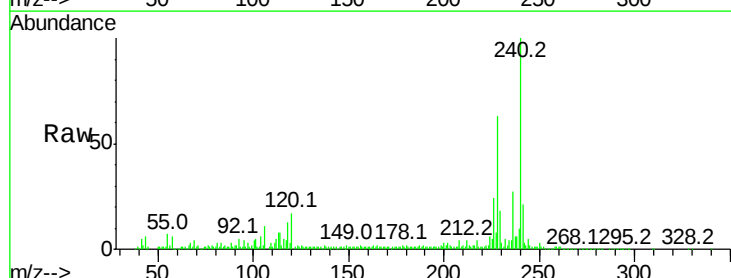
Manual Integrations
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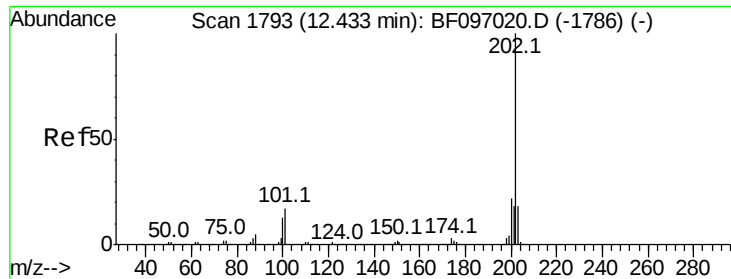
Sohil
 8/1/2017 5:44:41 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.62 min Scan# 1994
 Delta R.T. -0.01 min
 Lab File: BF097213.D
 Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	16.9	5.8	8.8#
236	26.6	20.5	30.7





#77

Pvrene

Concen: 47.797 ng

RT: 12.42 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Instrument :

BNA_F

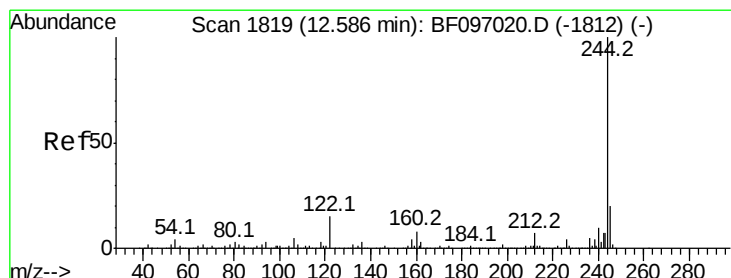
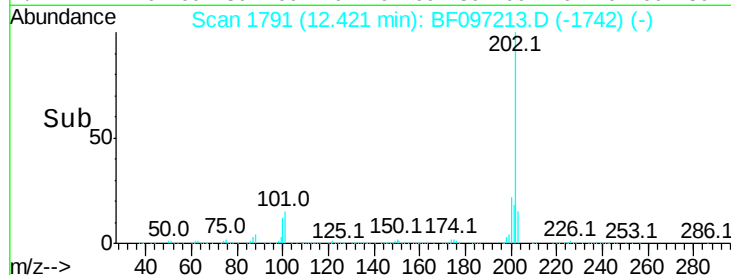
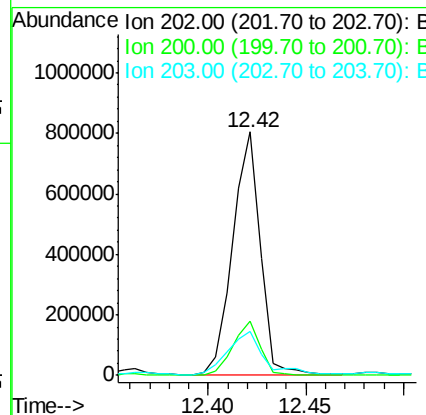
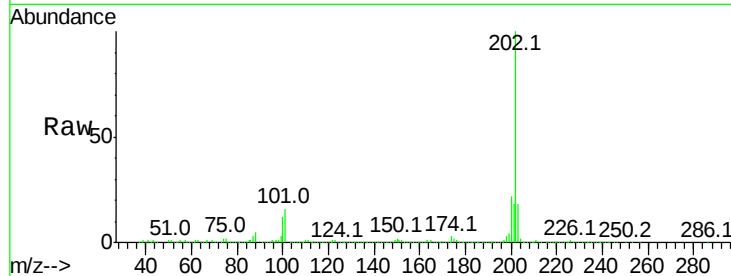
ClientSampleId :

CL-02-072717-A

Tot Ion:	202	Resp:	785770
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.6	26.4
203	17.9	14.4	21.6

Manual Integrations
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#78

Terphenyl-d14

Concen: 27.418 ng

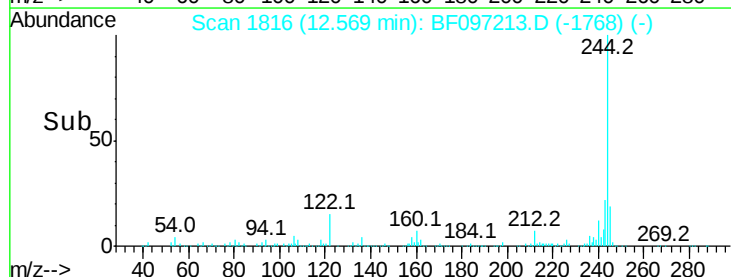
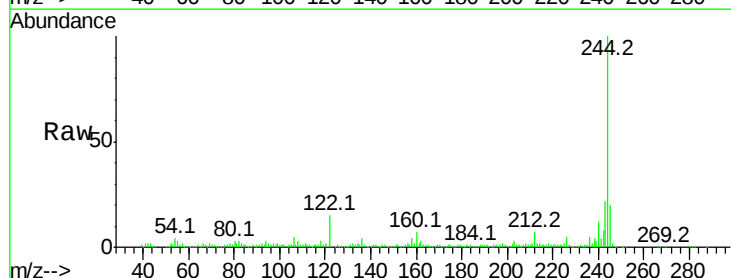
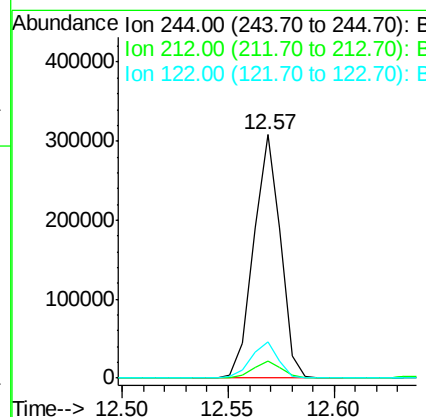
RT: 12.57 min Scan# 1816

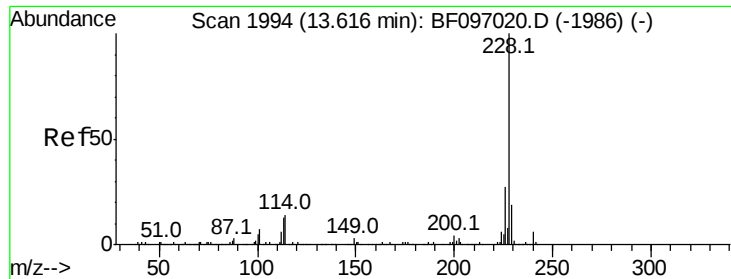
Delta R.T. -0.02 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Tgt Ion:	244	Resp:	270044
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	14.8	10.3	15.5





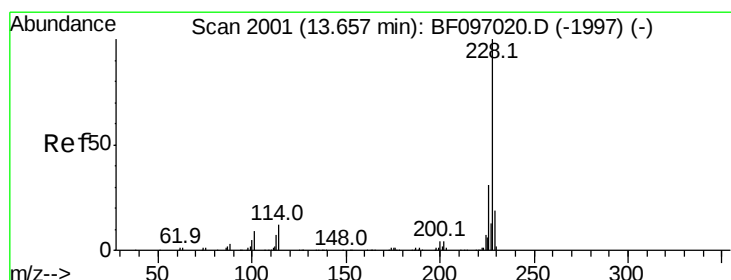
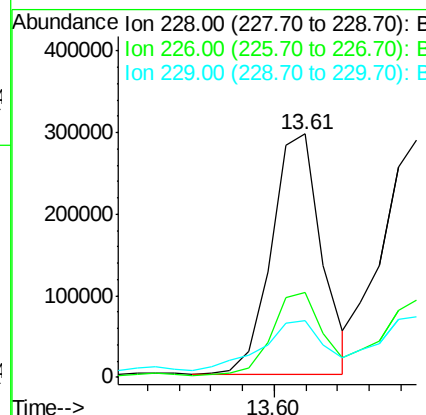
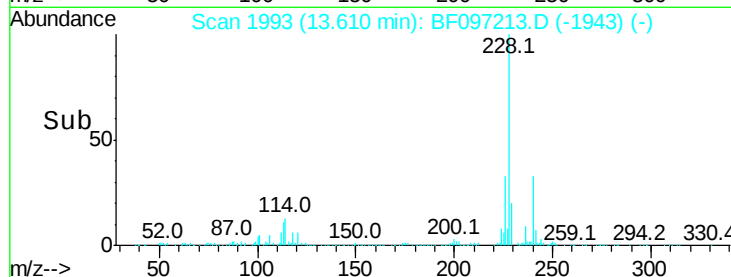
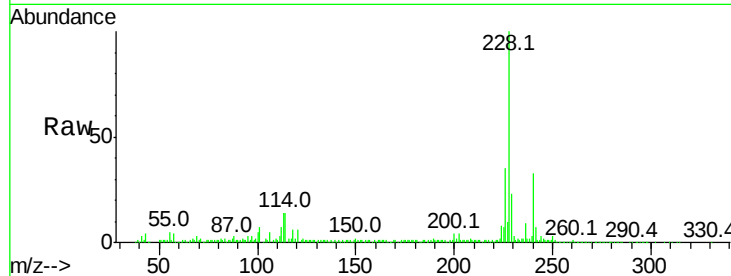
#80
Benzo(a)anthracene
Concen: 25.053 ng
RT: 13.61 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Resp	Lower	Upper
228	100	325518		
226	34.6	22.6	33.8#	
229	23.2	16.3	24.5	

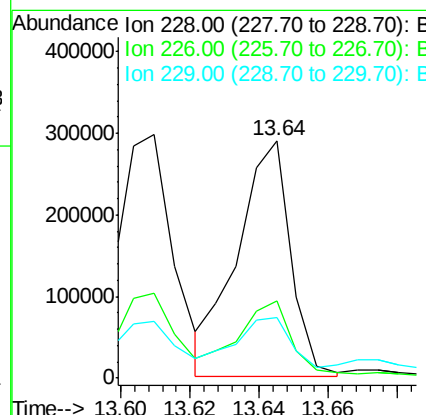
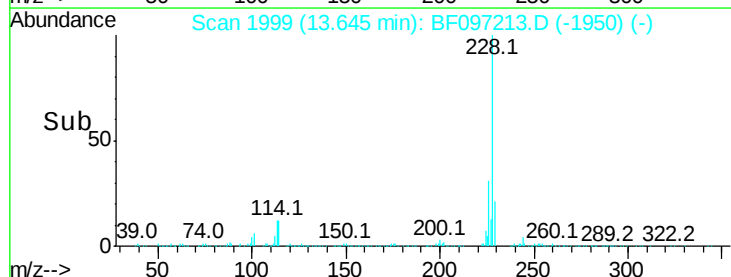
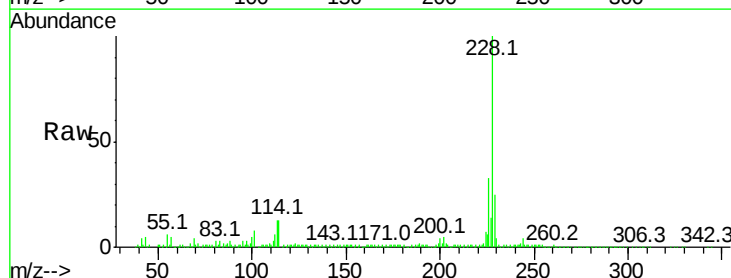
Manual Integrations
APPROVED

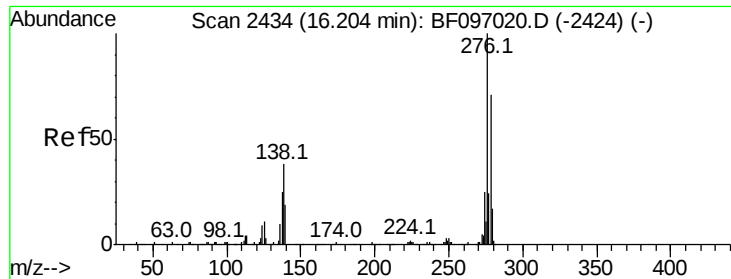
Sohil
8/1/2017 5:44:41 PM



#82
Chrysene
Concen: 24.452 ng m
RT: 13.64 min Scan# 1999
Delta R.T. -0.01 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	310239		
226	32.5	24.9	37.3	
229	25.3	15.8	23.6#	





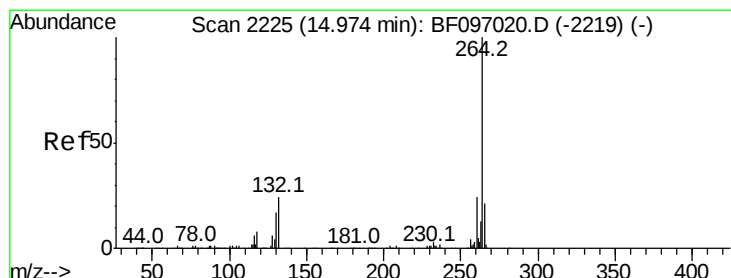
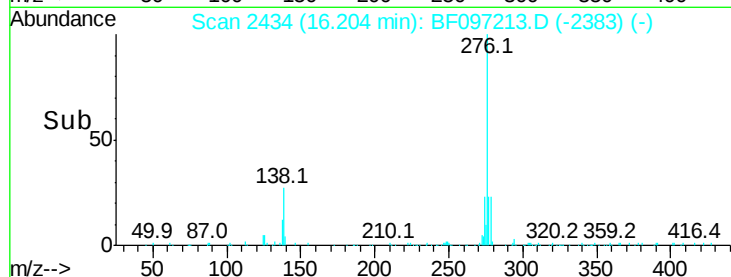
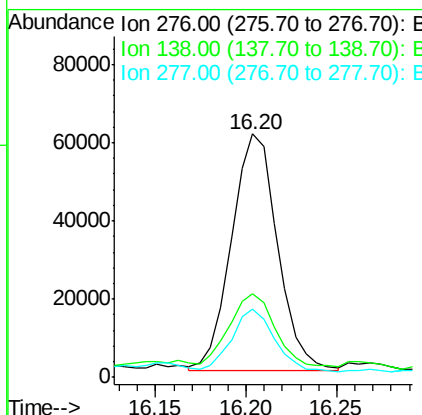
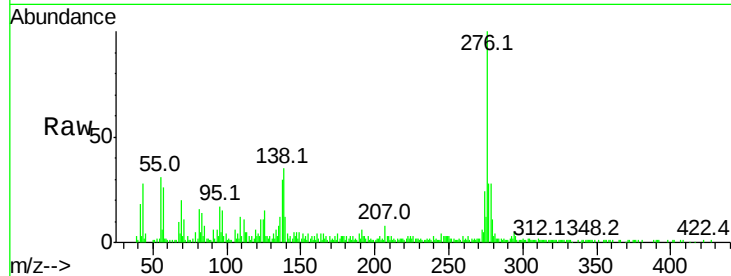
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.842 ng
RT: 16.20 min Scan# 2434
Delta R.T. -0.00 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.5	27.8	41.6
277	24.2	20.2	30.4

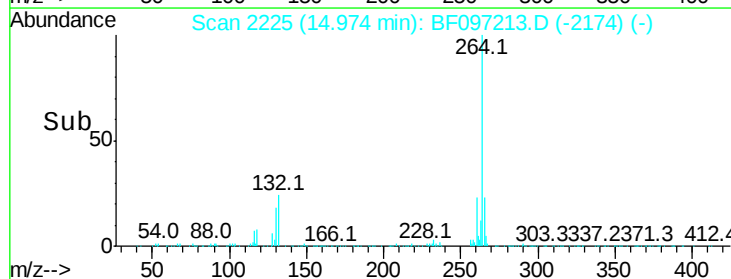
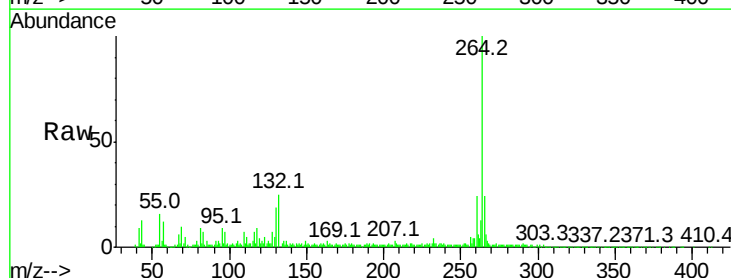
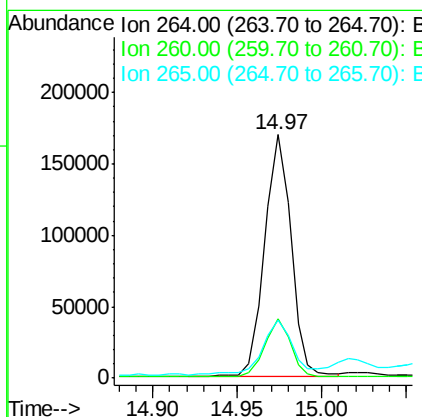
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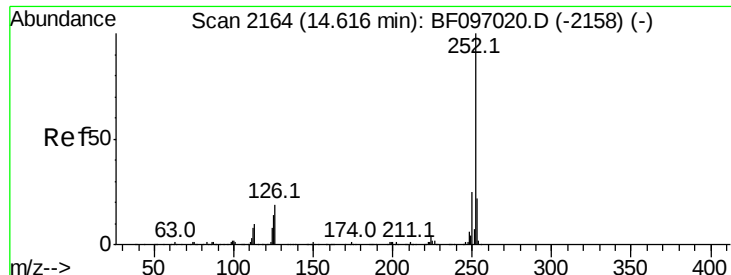
Sohil
8/1/2017 5:44:41 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.97 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	23.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 27.042 ng m

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Instrument :

BNA_F

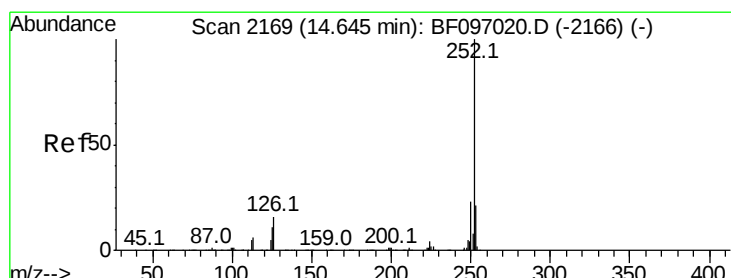
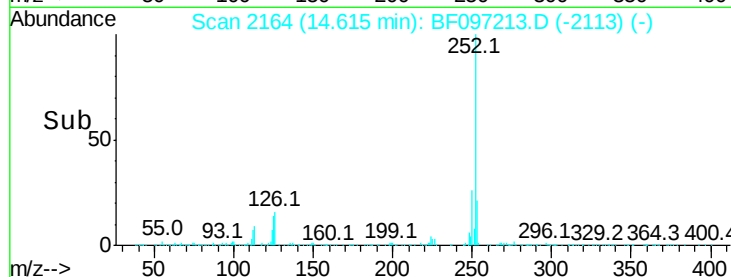
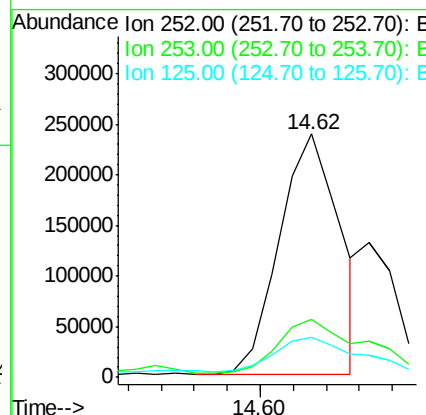
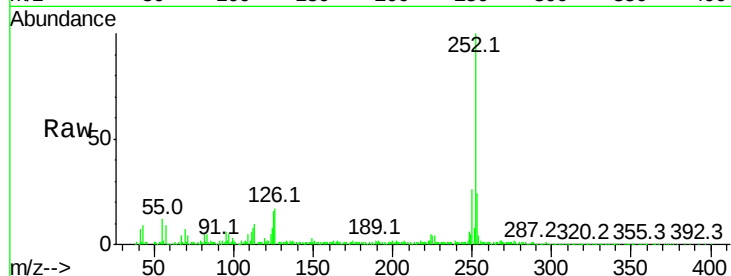
ClientSampleId :

CL-02-072717-A

Tot Ion:	252	Resp:	301195
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.1	27.1
125	16.2	9.8	14.8

Manual Integrations
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Sohil
8/1/2017 5:44:41 PM



#88

Benzo(k)fluoranthene

Concen: 9.260 ng m

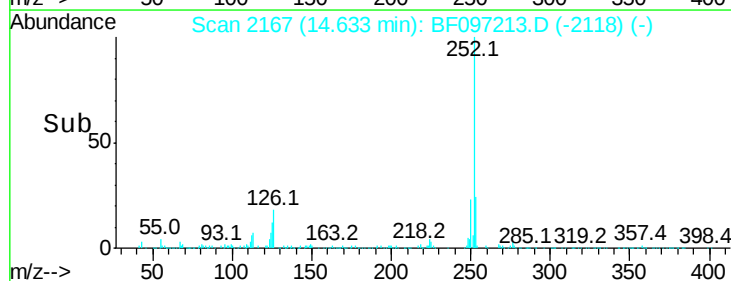
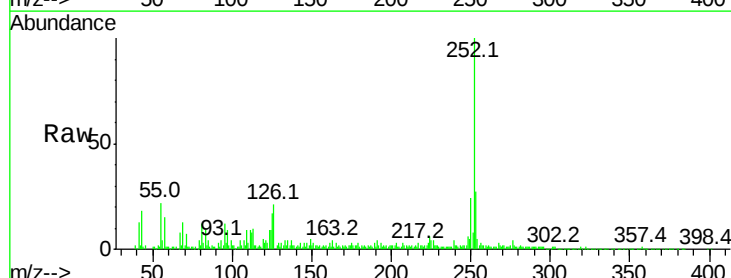
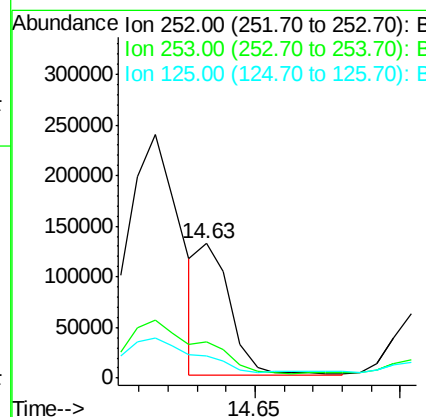
RT: 14.63 min Scan# 2167

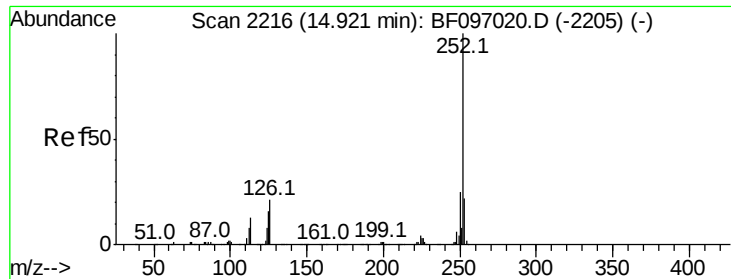
Delta R.T. -0.01 min

Lab File: BF097213.D

Acq: 31 Jul 2017 17:42

Tgt Ion:	252	Resp:	98283
Ion Ratio	Lower	Upper	
252	100		
253	26.9	18.4	27.6
125	16.6	13.1	19.7





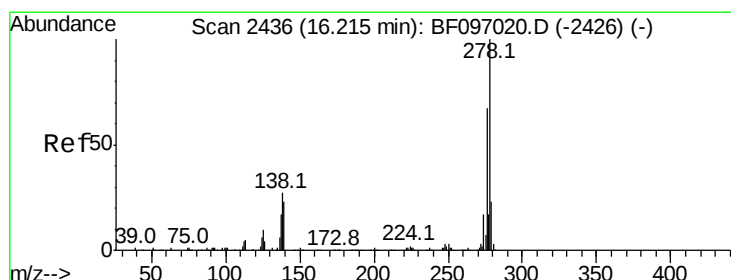
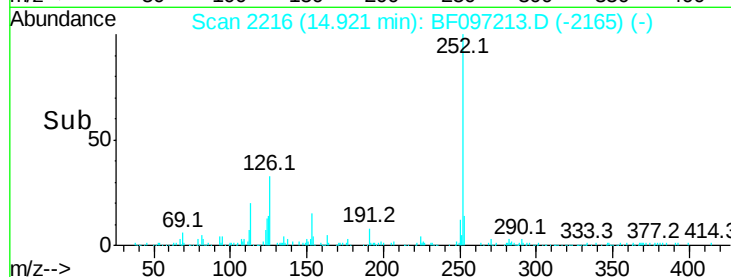
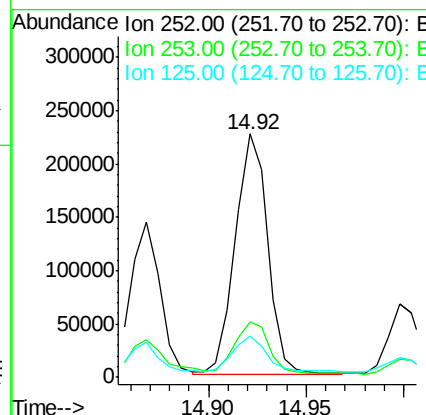
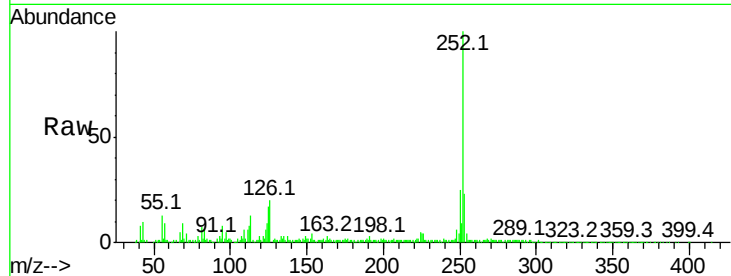
#89
Benzo(a)pyrene
Concen: 25.673 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Resp	Lower	Upper
252	100	261710		
253	22.7		17.5	26.3
125	16.8		11.0	16.4

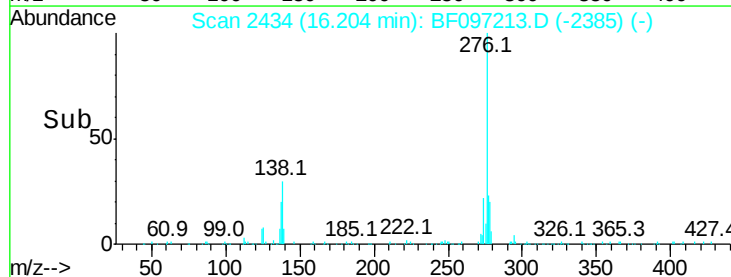
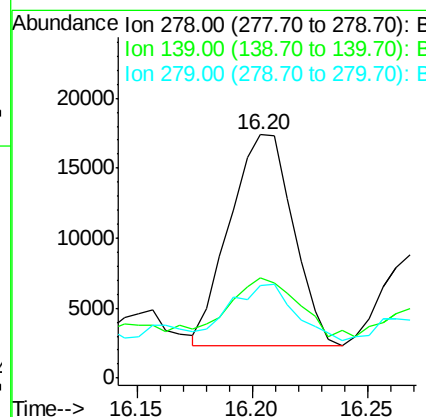
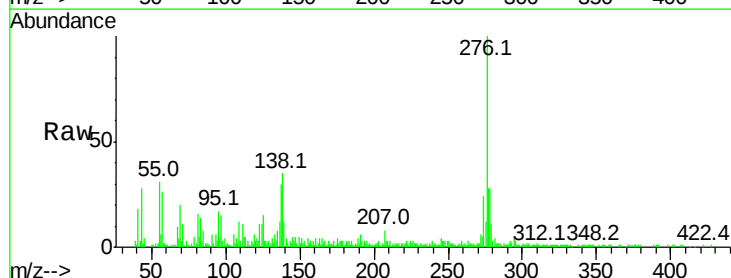
Manual Integrations
APPROVED

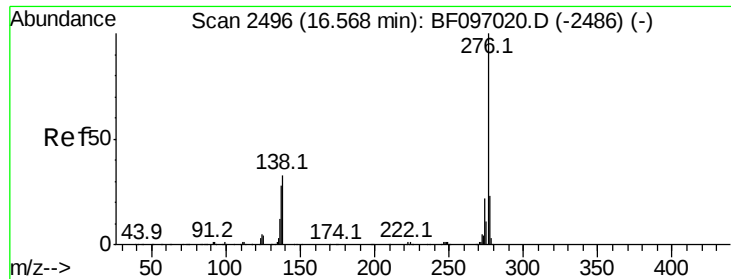
Sohil
8/1/2017 5:44:41 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.441 ng
RT: 16.20 min Scan# 2434
Delta R.T. -0.01 min
Lab File: BF097213.D
Acq: 31 Jul 2017 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	28766		
139	41.2		16.6	24.8
279	37.9		19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 11.948 ng
 RT: 16.57 min Scan# 2497
 Delta R.T. 0.01 min
 Lab File: BF097213.D
 Acq: 31 Jul 2017 17:42

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	33.6	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/1/2017 5:44:41 PM

