

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
 Data File : BF097407.D
 Acq On : 5 Aug 2017 19:51
 Operator : SJ/JU
 Sample : I4610-13 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-E

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:00:53 PM

Quant Time: Aug 07 14:50:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.43	152	83415	20.00	ng	-0.07
21) Naphthalene-d8	7.71	136	347911	20.00	ng	-0.08
38) Acenaphthene-d10	9.45	164	98525	20.00	ng	-0.08
63) Phenanthrene-d10	10.92	188	170143	20.00	ng	-0.08
75) Chrysene-d12	13.55	240	152458	20.00	ng	-0.08
86) Perylene-d12	14.89	264	108112	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	108720	19.65	ng	-0.06
7) Phenol-d6	6.11	99	138356	21.90	ng	-0.06
23) Nitrobenzene-d5	7.00	82	81792	13.79	ng	-0.08
41) 2,4,6-Tribromophenol	10.24	330	18624	23.92	ng	-0.08
44) 2-Fluorobiphenyl	8.79	172	108872	18.75	ng	-0.08
78) Terphenyl-d14	12.50	244	89412	11.96	ng	-0.08
Target Compounds						Qvalue
31) Naphthalene	7.73	128	50163	3.059	ng	99
37) 2-Methylnaphthalene	8.42	142	41733	4.019	ng	98
48) Acenaphthylene	9.32	152	53265	5.604	ng	97
51) Acenaphthene	9.48	154	55194	9.858	ng	98
54) Dibenzofuran	9.66	168	56554	7.583	ng	# 97
57) Fluorene	10.00	166	134156	23.934	ng	96
70) Phenanthrene	10.95	178	688438	75.517	ng	99
71) Anthracene	11.00	178	236128	25.289	ng	99
72) Carbazole	11.16	167	48333	5.263	ng	100
74) Fluoranthene	12.13	202	779263	87.255	ng	98
77) Pyrene	12.36	202	836182	66.995	ng	99
80) Benzo(a)anthracene	13.54	228	381859	38.710	ng	98
82) Chrysene	13.57	228	307351	31.908	ng	97
85) Indeno(1,2,3-cd)pyrene	16.09	276	96595	11.695	ng	95
87) Benzo(b)fluoranthene	14.54	252	285286m	43.898	ng	
88) Benzo(k)fluoranthene	14.56	252	63311m	10.223	ng	
89) Benzo(a)pyrene	14.84	252	204907	34.450	ng	98
90) Dibenzo(a,h)anthracene	16.09	278	26982m	5.532	ng	
91) Benzo(a,h,i)perylene	16.44	276	103839	20.301	ng	97

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

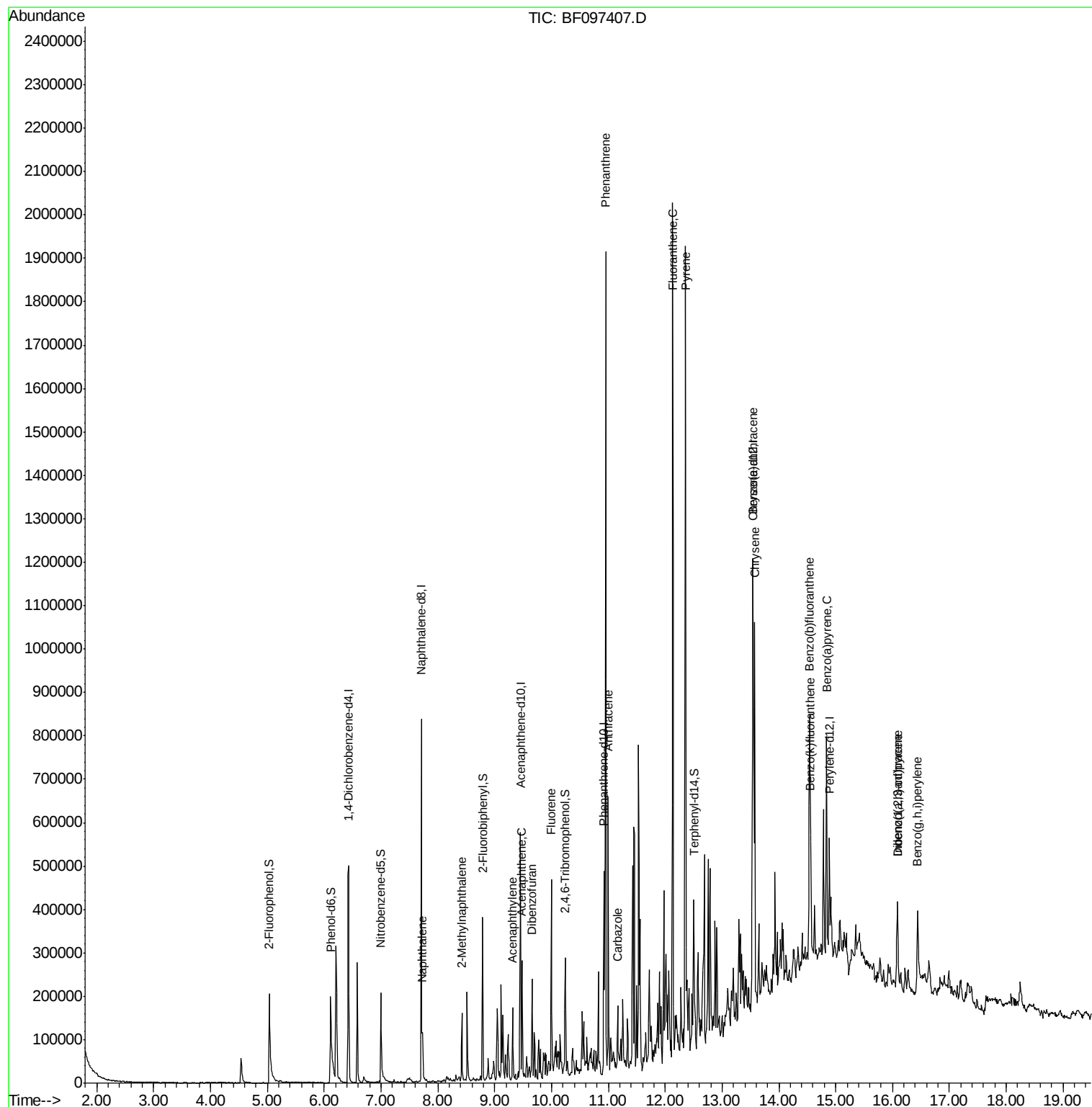
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
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ALS Vial : 18 Sample Multiplier: 1

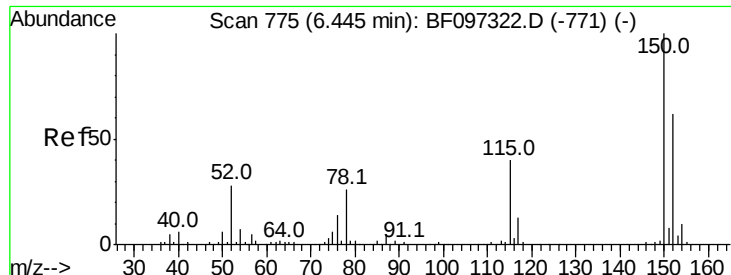
Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

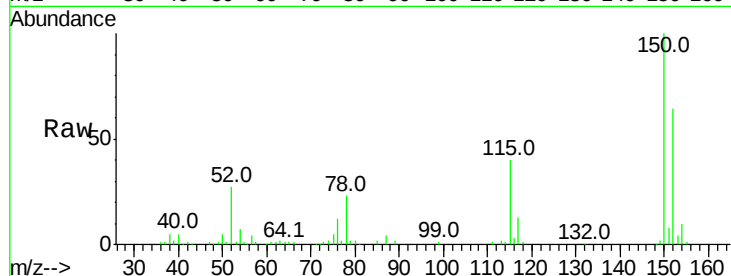
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.43 min Scan# 789
Delta R.T. -0.07 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	126.2	189.2
115	61.9	52.2	78.2

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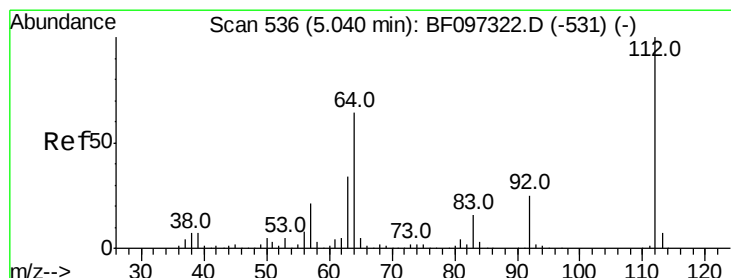
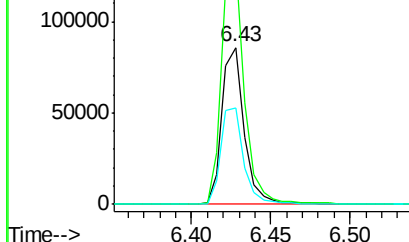
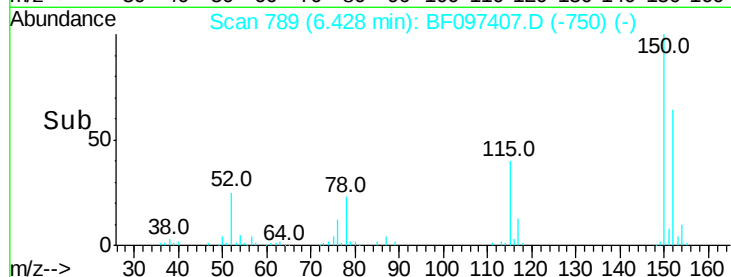


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

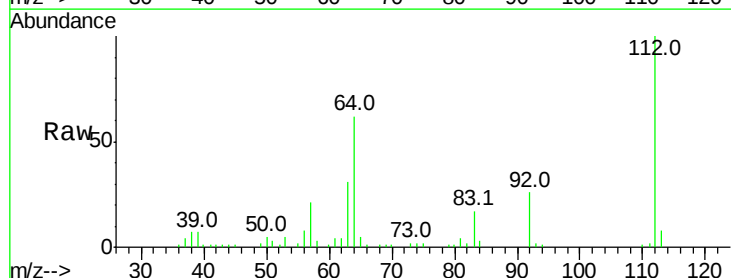
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 19.648 ng
RT: 5.03 min Scan# 552
Delta R.T. -0.06 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	46.0	69.0
63	30.8	23.4	35.0

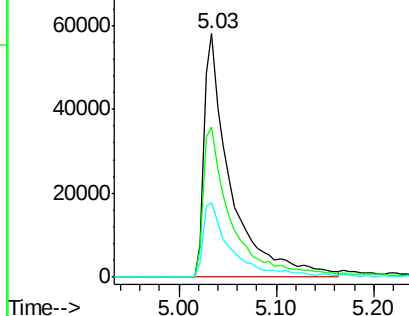
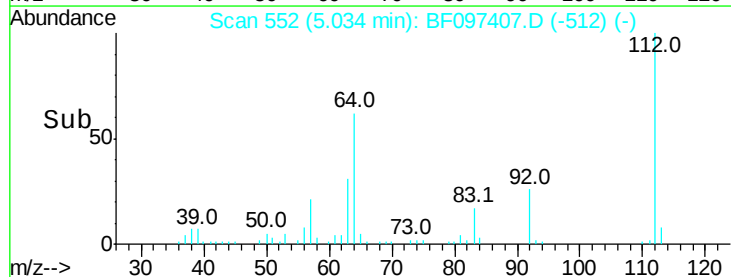


Abundance

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: 21.902 ng

RT: 6.11 min Scan# 735

Delta R.T. -0.06 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Instrument :

BNA_F

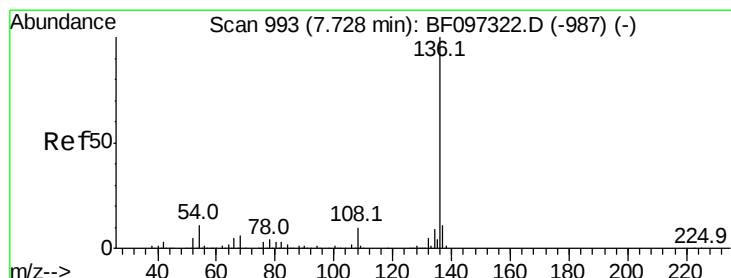
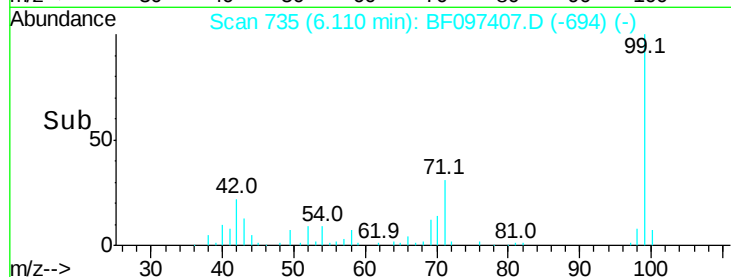
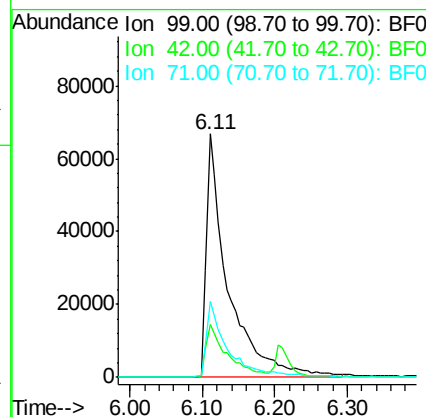
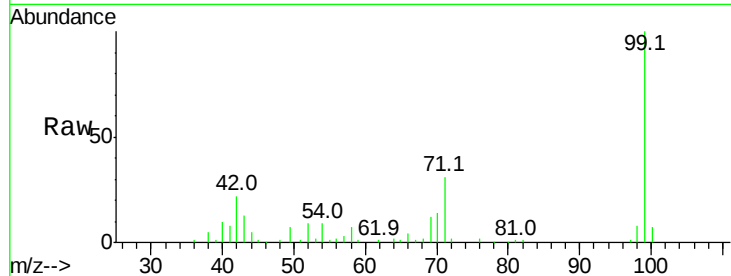
ClientSampleId :

PL-02-080317-E

Tot Ion:	99	Resp:	138356
Ion Ratio	Lower	Upper	
99	100		
42	21.5	13.5	20.3#
71	31.0	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

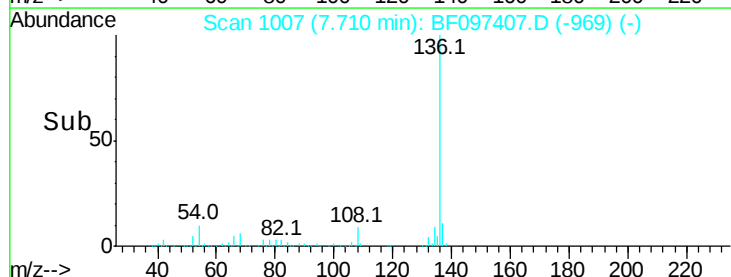
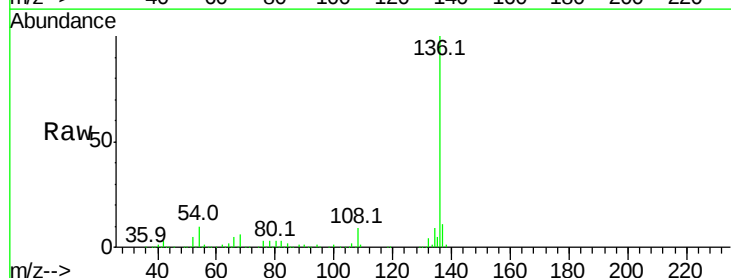
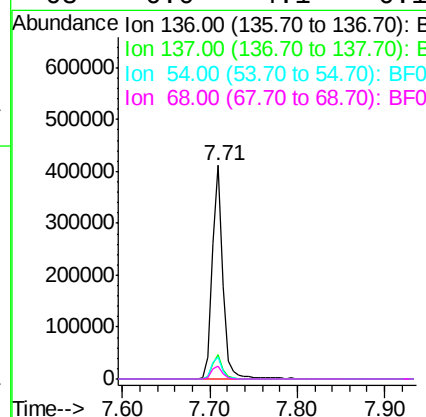
RT: 7.71 min Scan# 1007

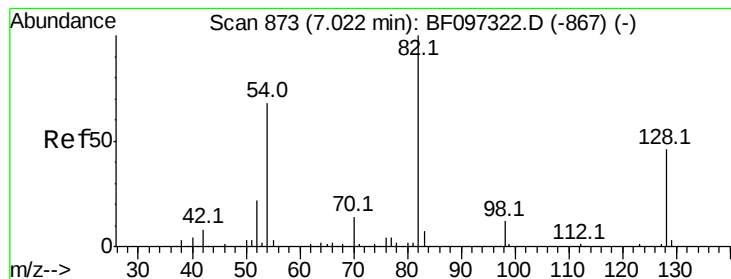
Delta R.T. -0.08 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Tgt Ion:	136	Resp:	347911
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	10.5	4.9	7.3#
68	6.0	4.1	6.1





#23

Nitrobenzene-d5

Concen: 13.792 ng

RT: 7.00 min Scan# 886

Delta R.T. -0.08 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Instrument :

BNA_F

ClientSampleId :

PL-02-080317-E

Tot Ion: 82 Resp: 81792

Ion Ratio Lower Upper

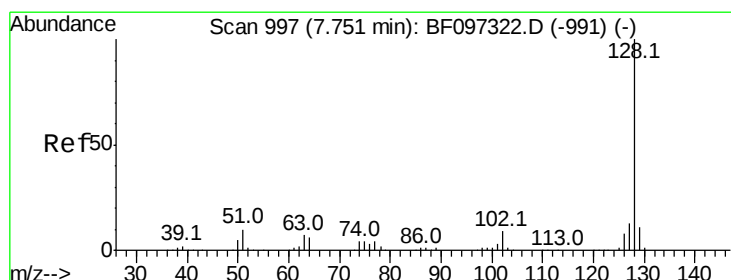
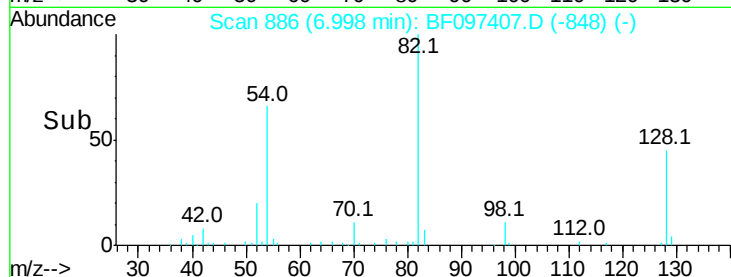
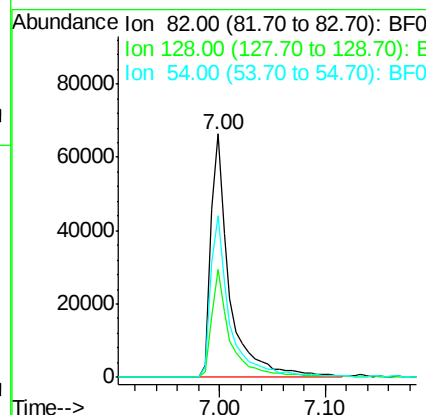
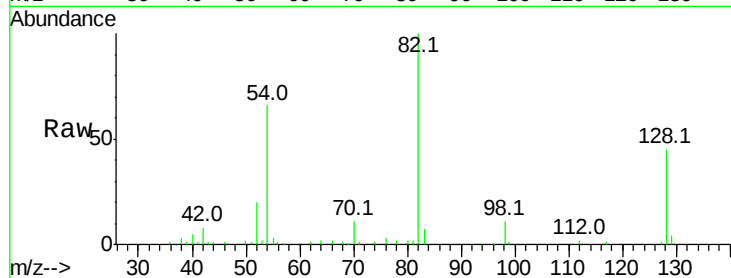
82 100

128 44.6 34.0 51.0

54 66.4 42.2 63.2#

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#31

Naphthalene

Concen: 3.059 ng

RT: 7.73 min Scan# 1011

Delta R.T. -0.08 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

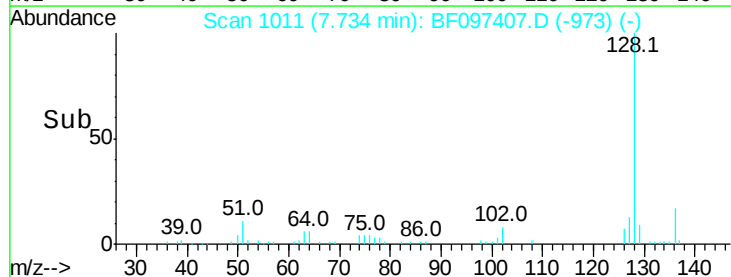
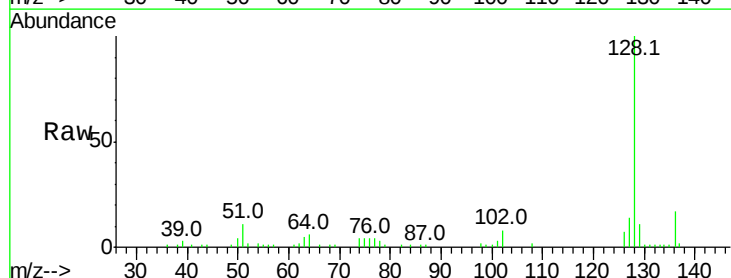
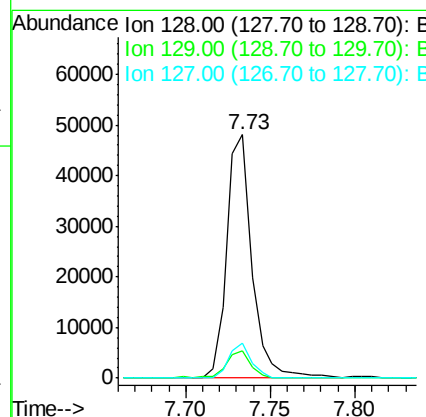
Tgt Ion: 128 Resp: 50163

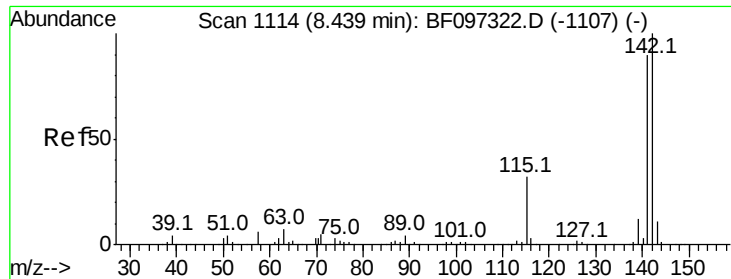
Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

127 14.4 10.8 16.2





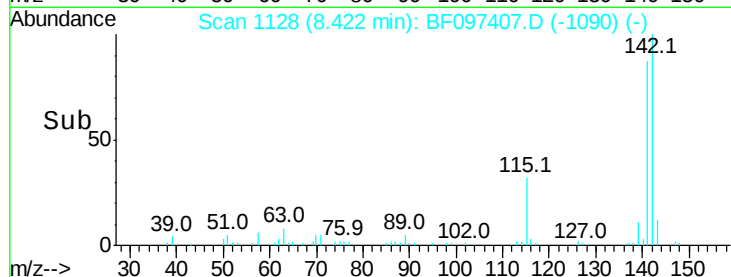
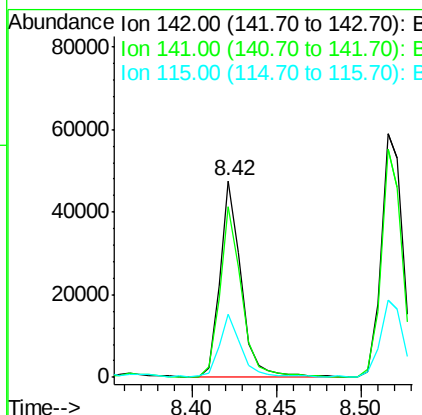
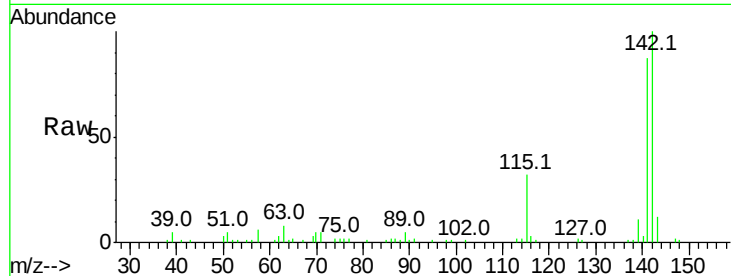
#37
 2-Methylnaphthalene
 Concen: 4.019 ng
 RT: 8.42 min Scan# 1128
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

Instrument :
 BNA_F
 ClientSampleID :
 PL-02-080317-E

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.1	71.3	106.9
115	32.4	27.1	40.7

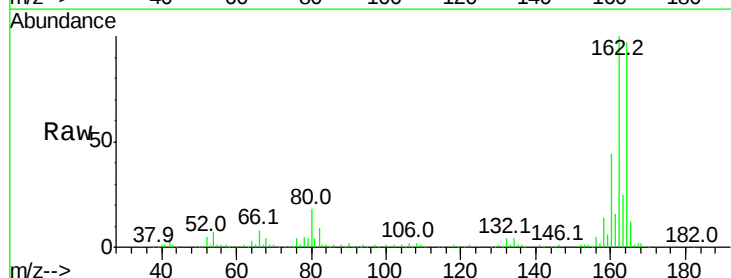
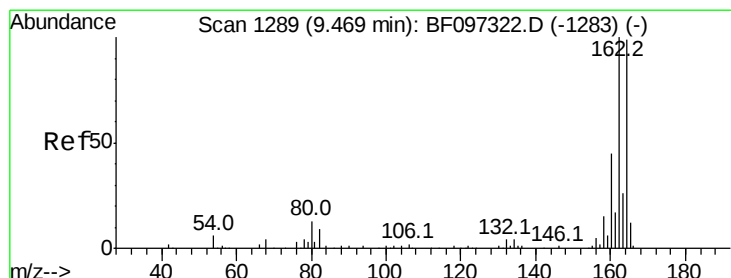
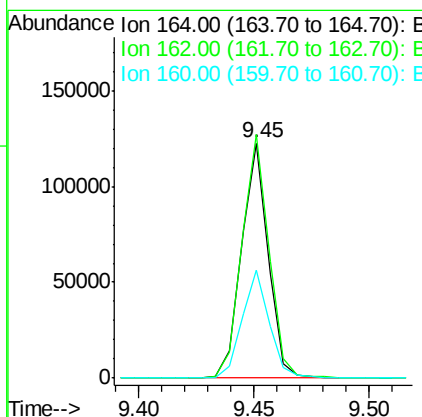
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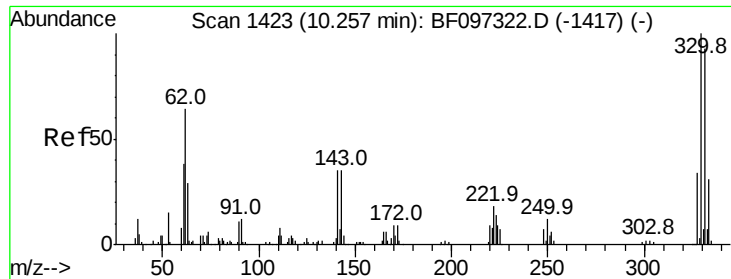
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.45 min Scan# 1303
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	45.7	36.2	54.2





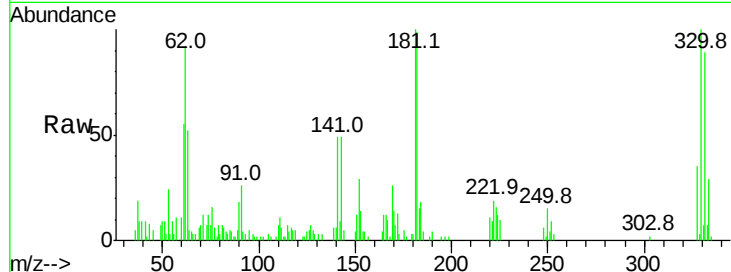
#41
 2,4,6-Tribromophenol
 Concen: 23.925 ng
 RT: 10.24 min Scan# 1437
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-E

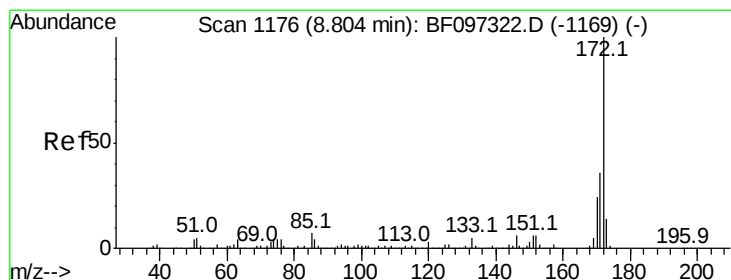
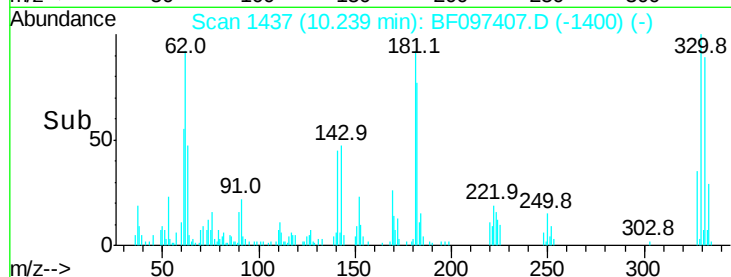
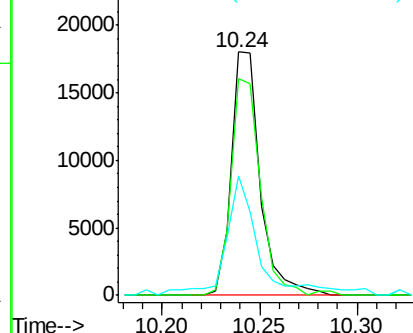
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	91.1	76.6	115.0	
141	56.2	31.4	47.2	

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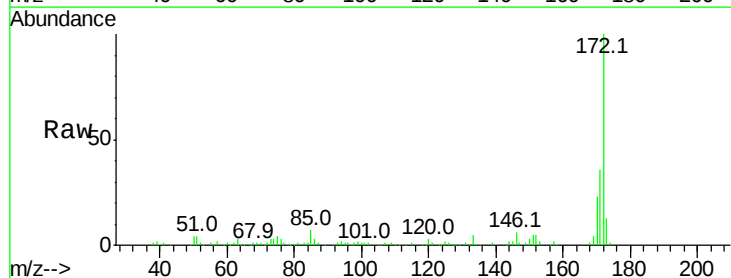


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

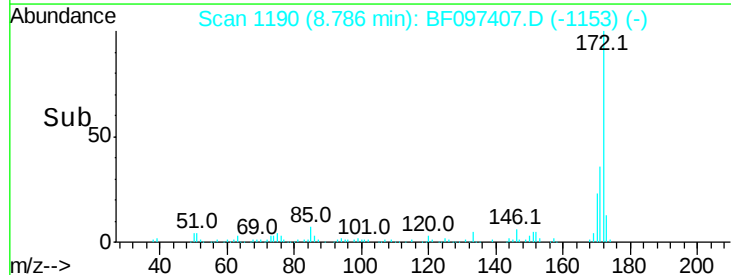
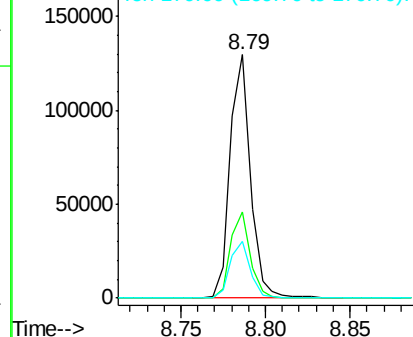


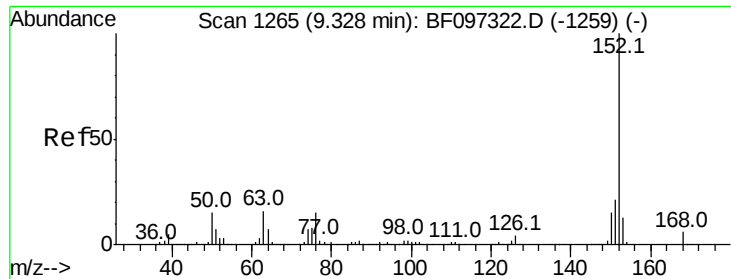
#44
 2-Fluorobiphenyl
 Concen: 18.753 ng
 RT: 8.79 min Scan# 1190
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

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



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





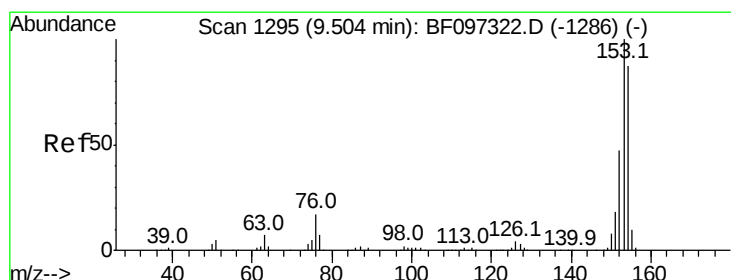
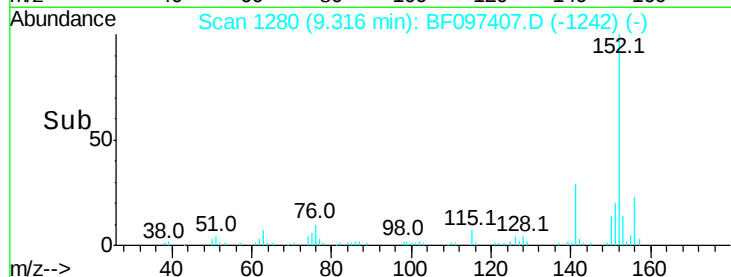
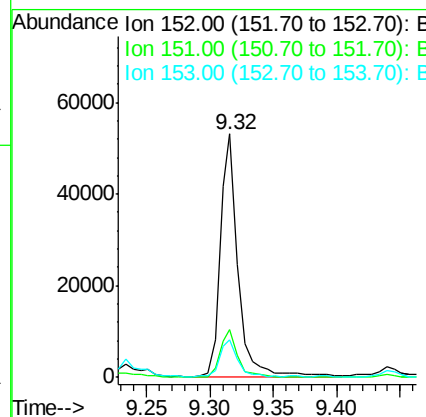
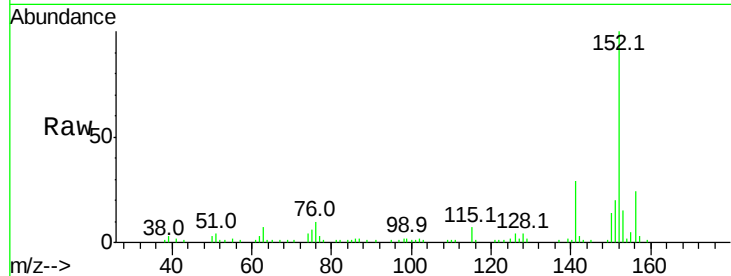
#48
Acenaphthylene
Concen: 5.604 ng
RT: 9.32 min Scan# 1280
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Resp	Lower	Upper
152	100	53265		
151	19.7		16.8	25.2
153	15.2		10.8	16.2

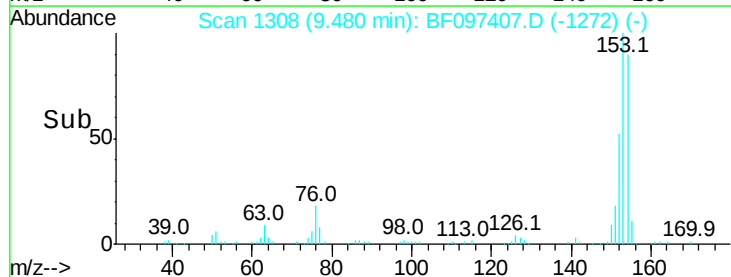
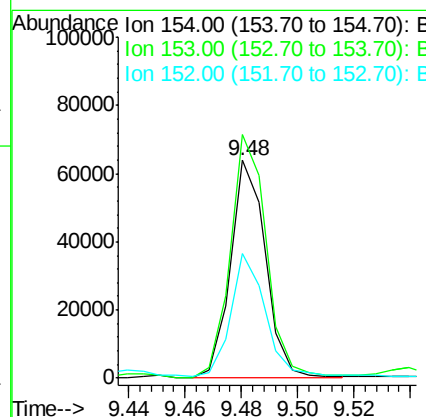
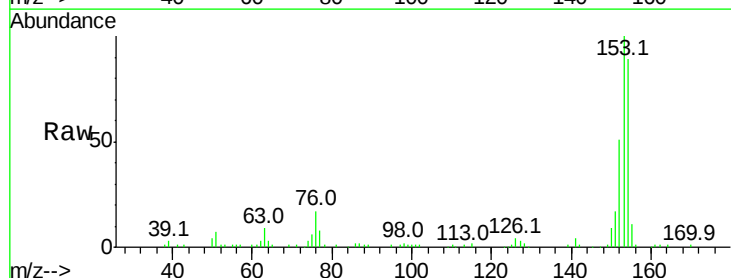
Manual Integrations
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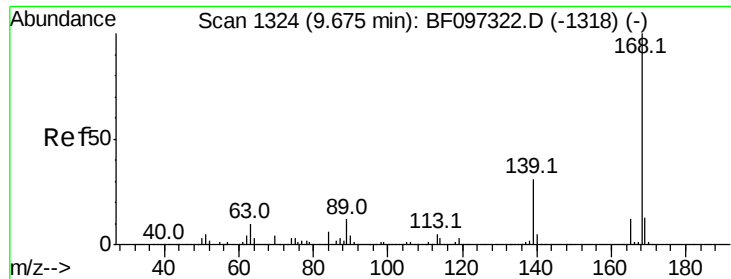
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#51
Acenaphthene
Concen: 9.858 ng
RT: 9.48 min Scan# 1308
Delta R.T. -0.09 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	55194		
153	112.0		90.5	135.7
152	57.5		43.6	65.4





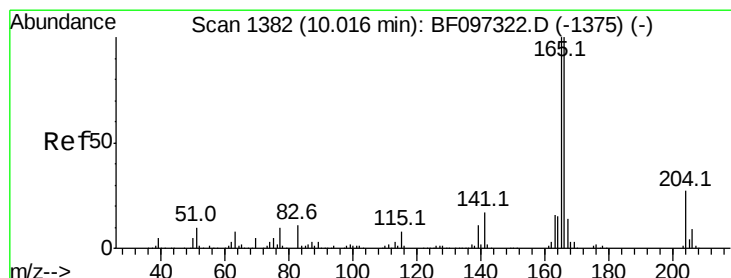
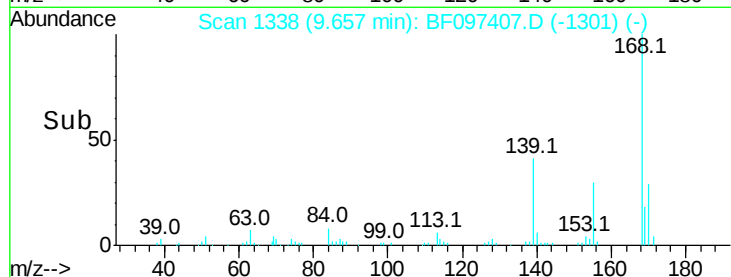
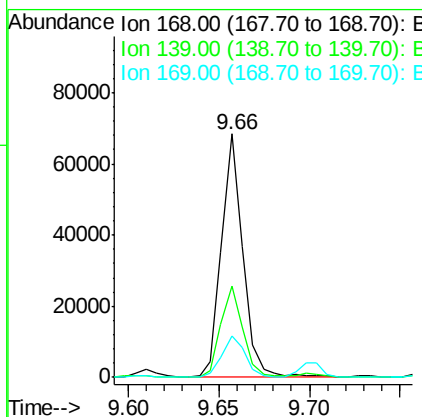
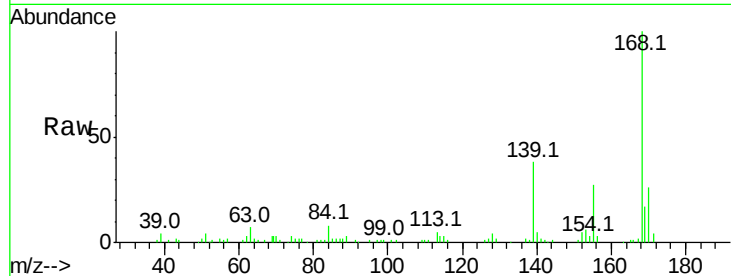
#54
Dibenzenofuran
Concen: 7.583 ng
RT: 9.66 min Scan# 1338
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Resp	Lower	Upper
168	100	56554		
139	37.5		30.6	45.8
169	17.2		10.8	16.2

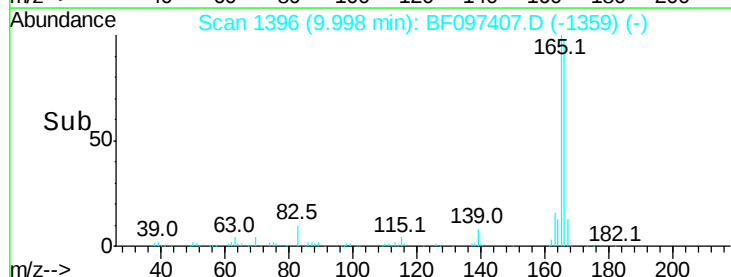
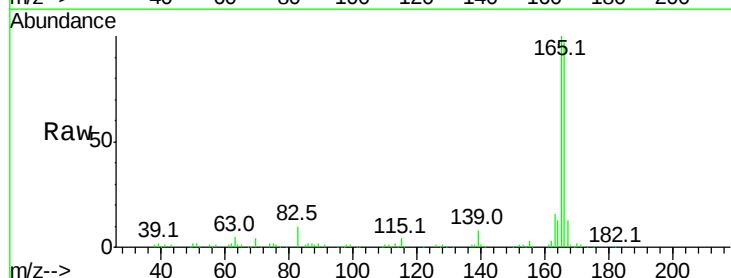
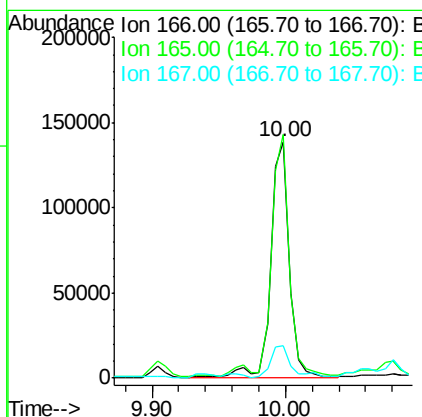
Manual Integrations
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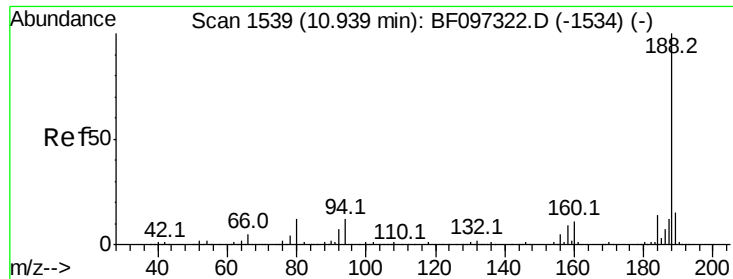
Sohil
8/7/2017 6:00:53 PM



#57
Fluorene
Concen: 23.934 ng
RT: 10.00 min Scan# 1396
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	134156		
165	102.9		78.8	118.2
167	13.8		10.6	16.0





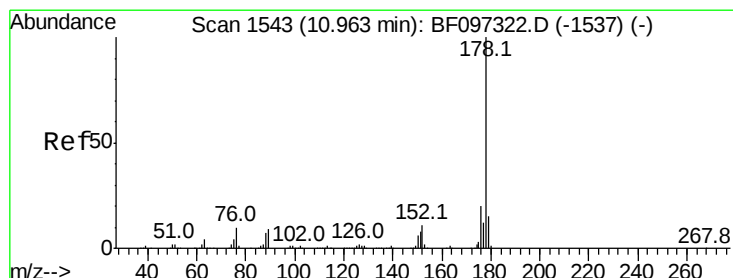
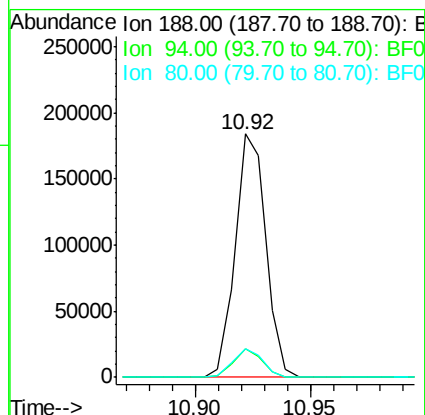
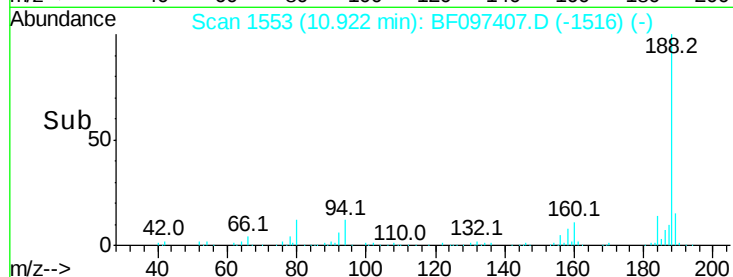
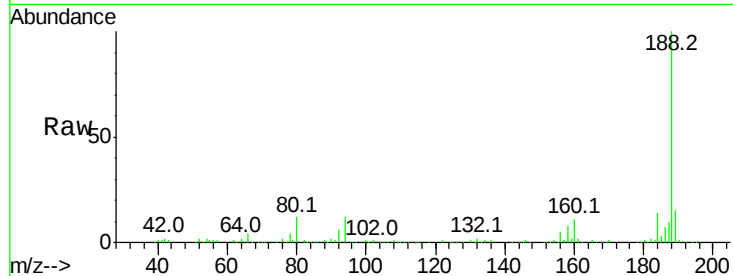
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.92 min Scan# 1553
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.5	9.4	14.2
80	11.9	10.2	15.2

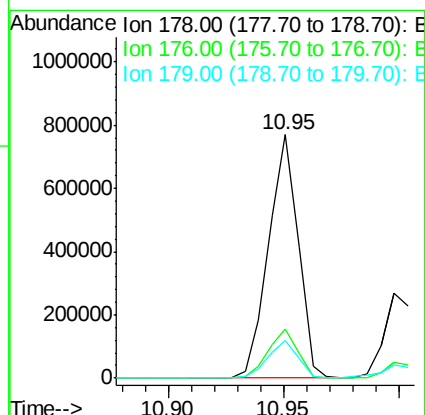
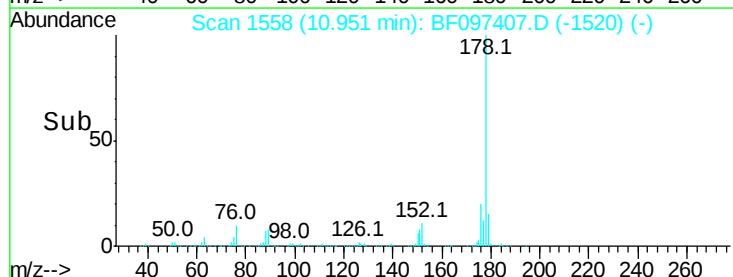
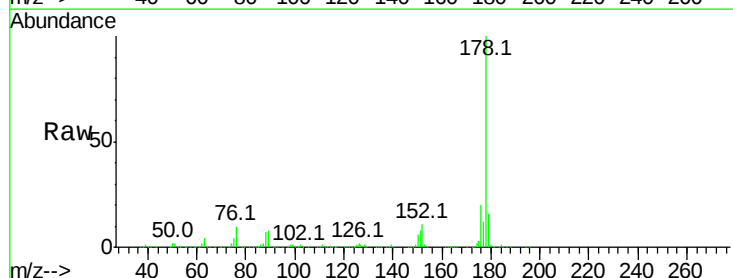
Manual Integrations
APPROVED

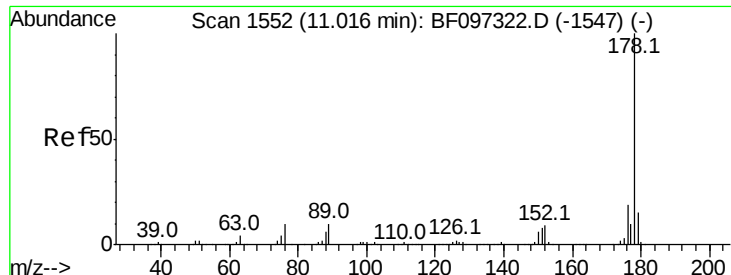
Sohil
8/7/2017 6:00:53 PM



#70
Phenanthrene
Concen: 75.517 ng
RT: 10.95 min Scan# 1558
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.9	16.2	24.4
179	15.6	12.6	19.0





#71

Anthracene

Concen: 25.289 ng

RT: 11.00 min Scan# 1566

Delta R.T. -0.08 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Instrument :

BNA_F

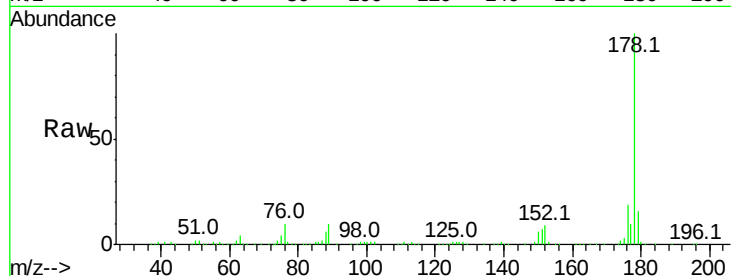
ClientSampleId :

PL-02-080317-E

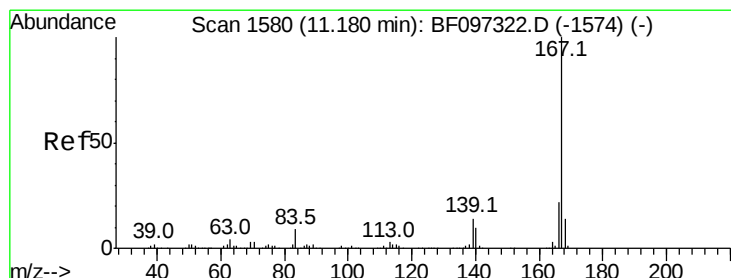
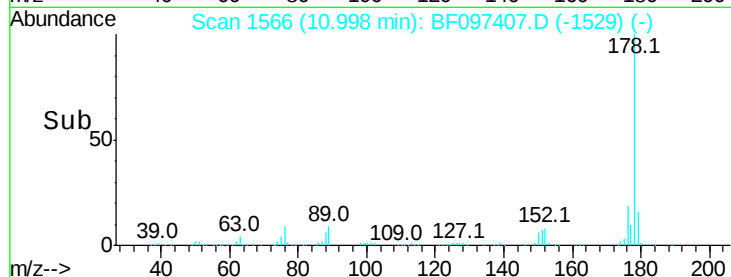
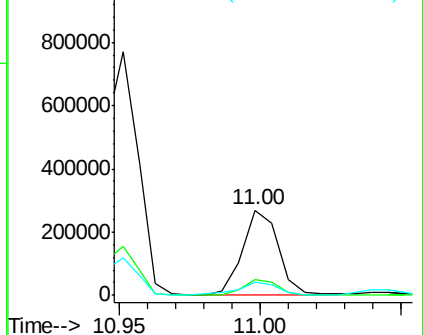
Tot Ion:	178	Resp:	236128
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.8	23.8
179	16.0	12.7	19.1

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: 5.263 ng

RT: 11.16 min Scan# 1594

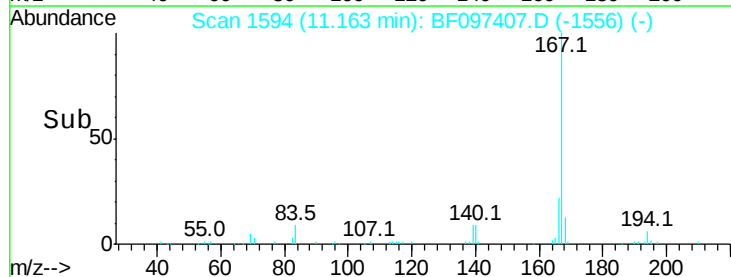
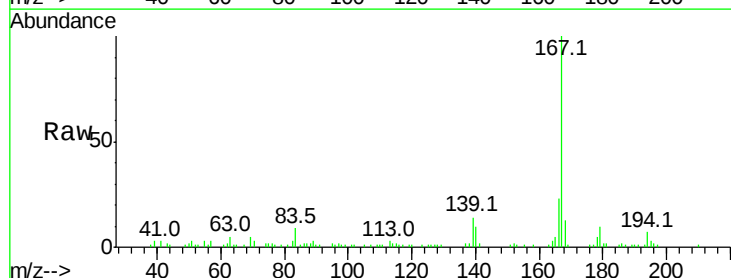
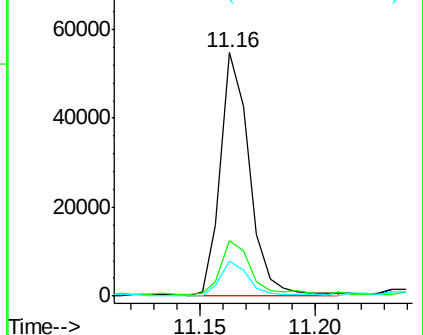
Delta R.T. -0.08 min

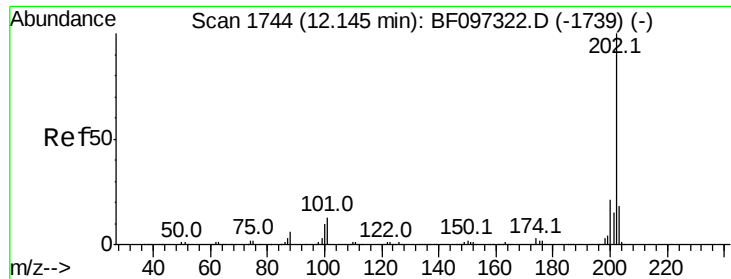
Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Tgt Ion:	167	Resp:	48333
Ion Ratio	Lower	Upper	
167	100		
166	22.7	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





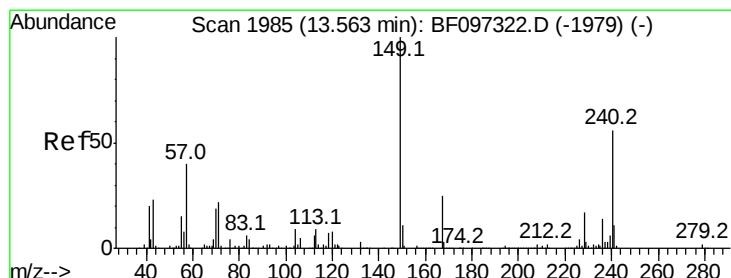
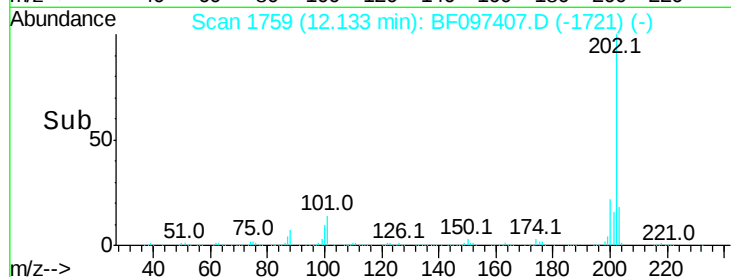
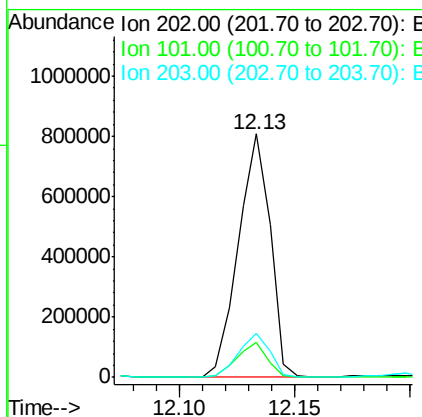
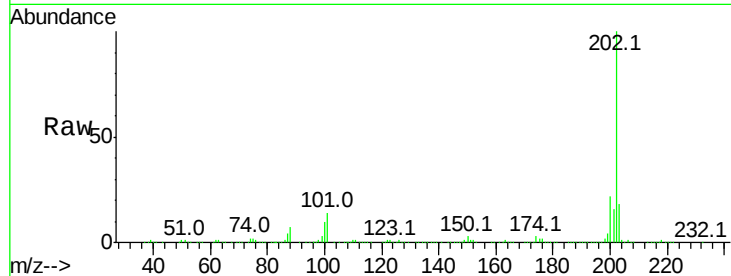
#74
 Fluoranthene
 Concen: 87.255 ng
 RT: 12.13 min Scan# 1759
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-E

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.5	0.0	33.2
203	17.8	0.0	38.1

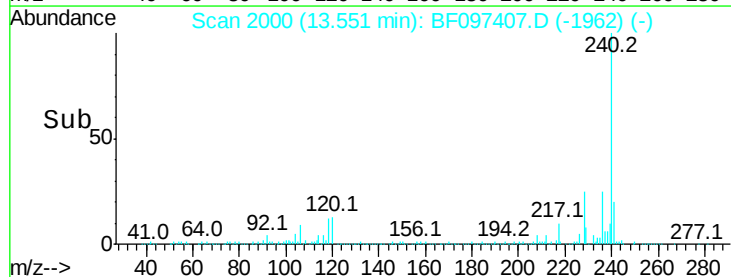
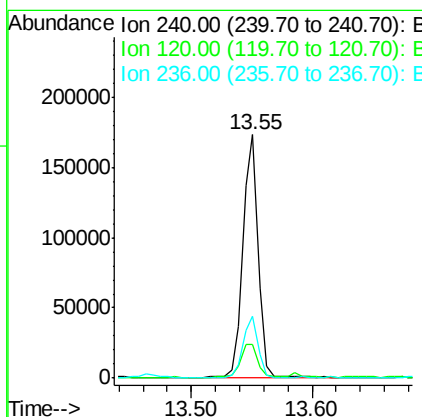
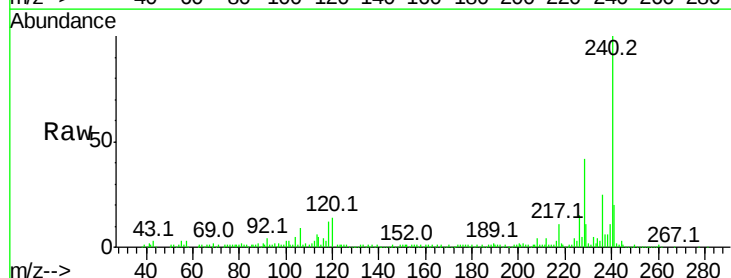
Manual Integrations
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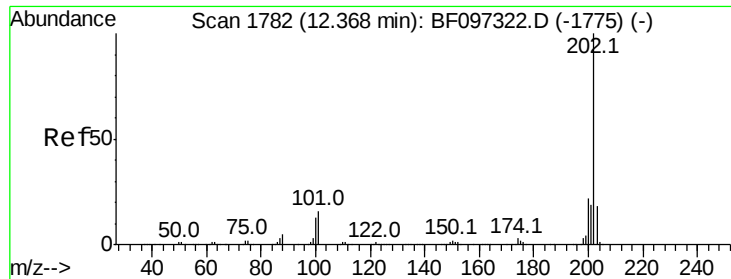
Sohil
 8/7/2017 6:00:53 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.55 min Scan# 2000
 Delta R.T. -0.08 min
 Lab File: BF097407.D
 Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.6	5.8	8.8#
236	25.1	20.5	30.7





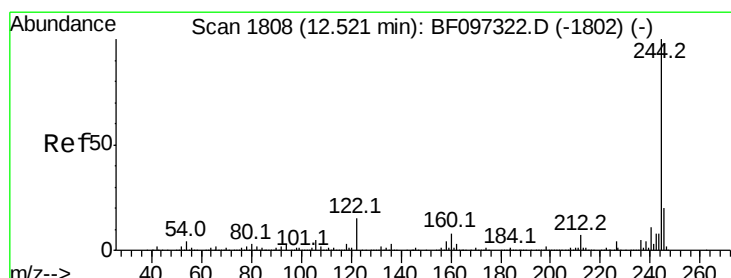
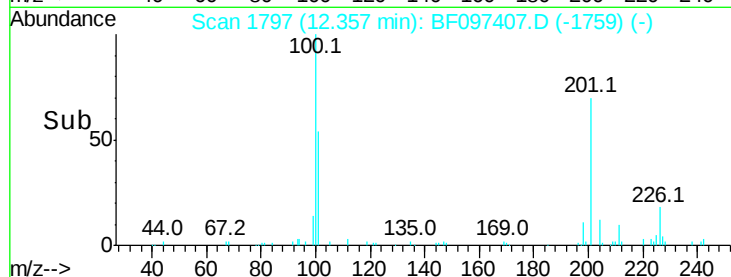
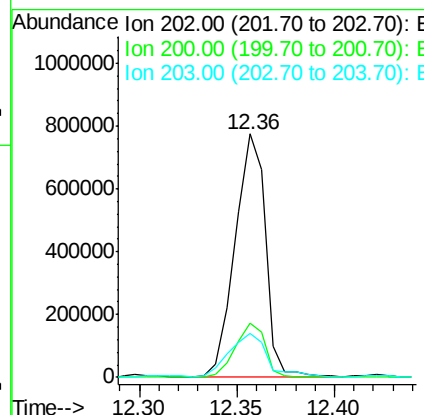
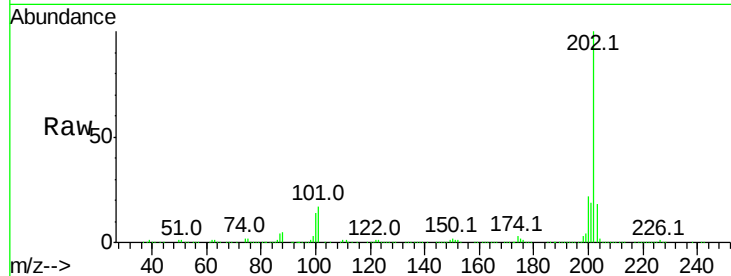
#77
Pvrene
Concen: 66.995 ng
RT: 12.36 min Scan# 1797
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampled :
PL-02-080317-E

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.2	17.6	26.4
203	18.3	14.4	21.6

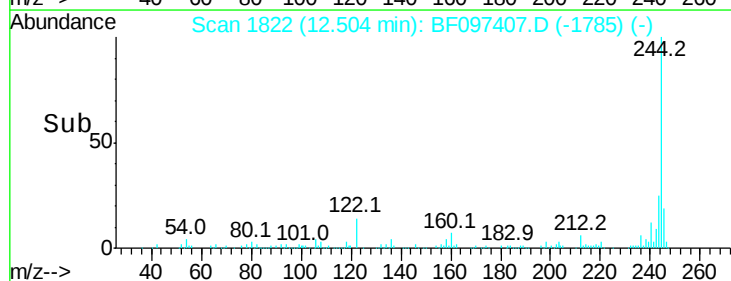
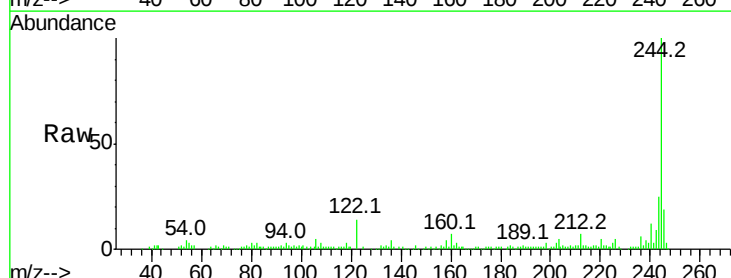
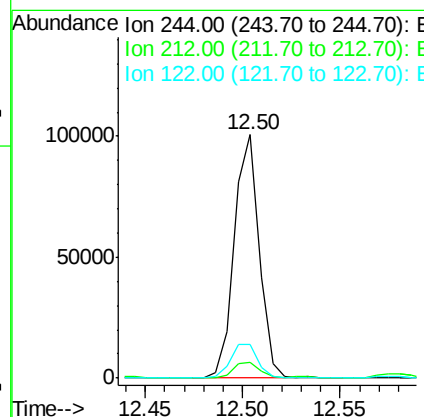
Manual Integrations
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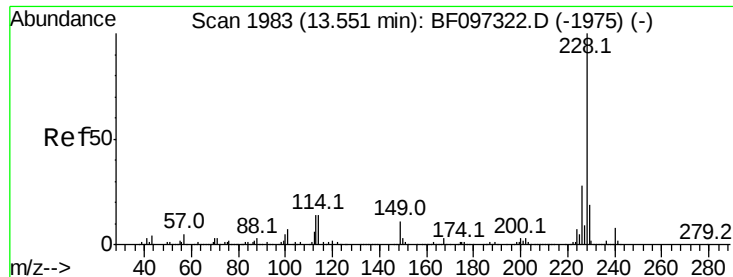
Sohil
8/7/2017 6:00:53 PM



#78
Terphenyl-d14
Concen: 11.957 ng
RT: 12.50 min Scan# 1822
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.8	10.3	15.5





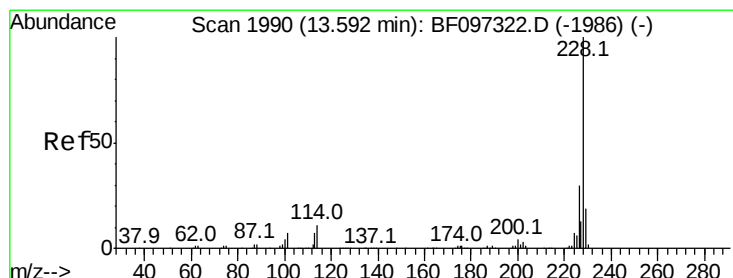
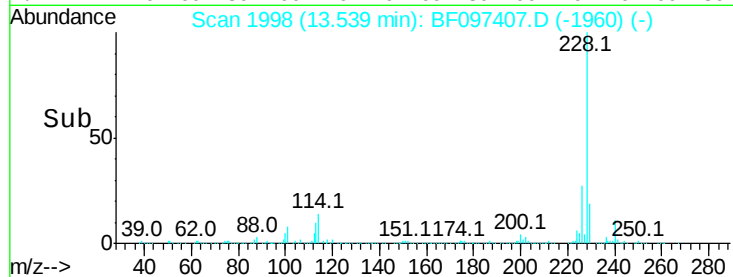
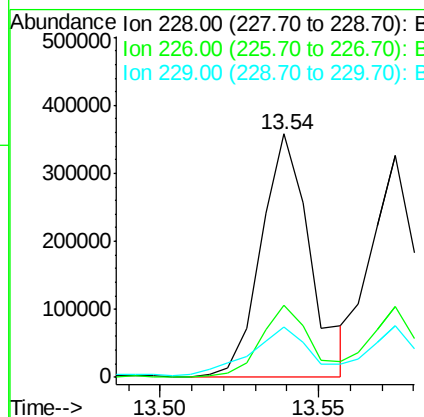
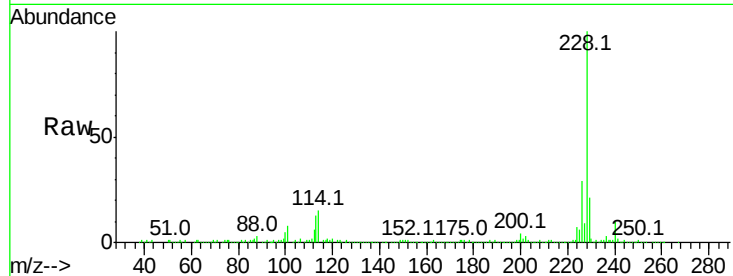
#80
Benzo(a)anthracene
Concen: 38.710 ng
RT: 13.54 min Scan# 1998
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion:	228	Resp:	381859
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.6	33.8
229	20.6	16.3	24.5

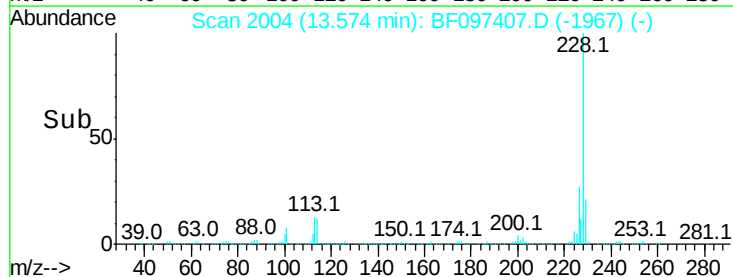
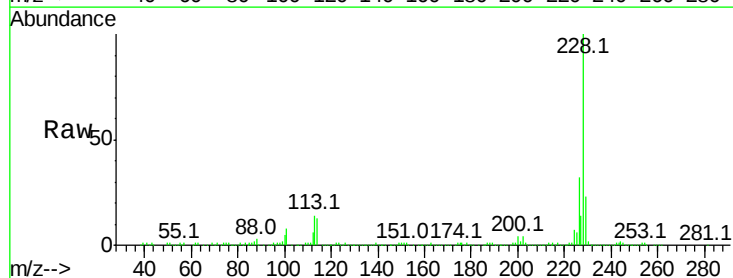
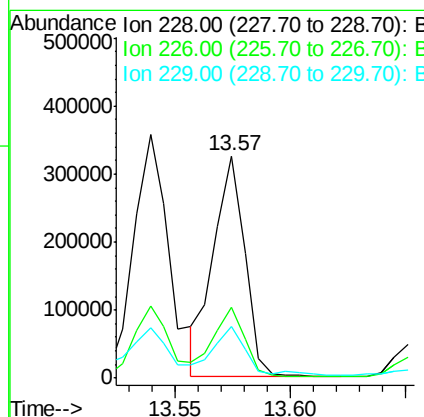
Manual Integrations
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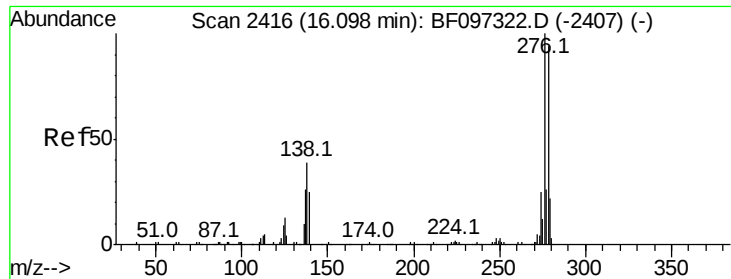
Sohil
8/7/2017 6:00:53 PM



#82
Chrysene
Concen: 31.908 ng
RT: 13.57 min Scan# 2004
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion:	228	Resp:	307351
Ion Ratio	Lower	Upper	
228	100		
226	31.7	24.9	37.3
229	23.0	15.8	23.6





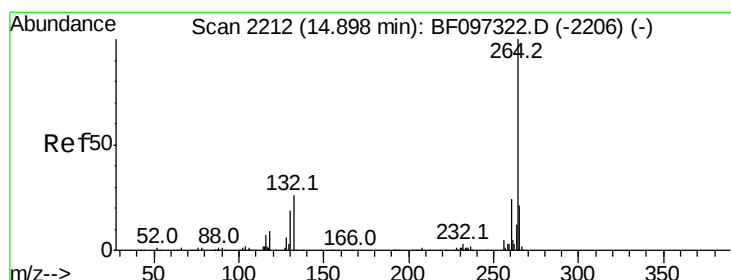
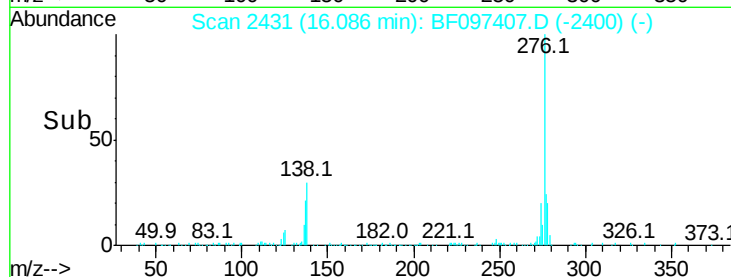
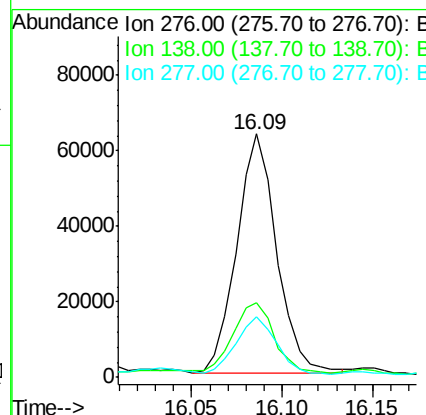
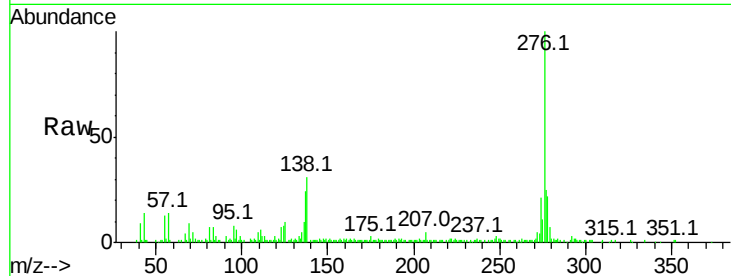
#85
Indeno(1,2,3-cd)pyrene
Concen: 11.695 ng
RT: 16.09 min Scan# 2431
Delta R.T. -0.12 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.9	27.8	41.6
277	24.8	20.2	30.4

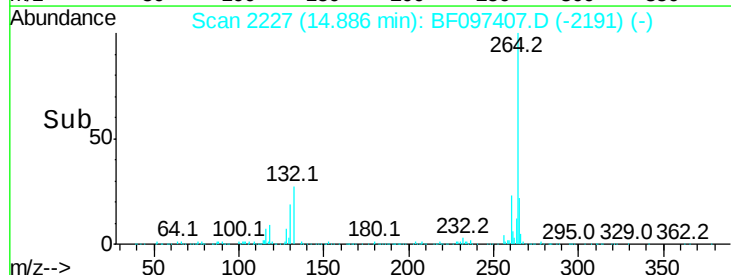
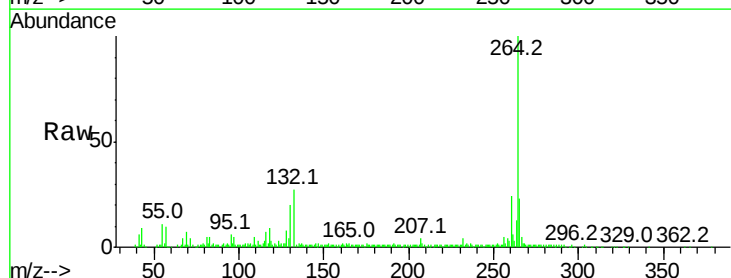
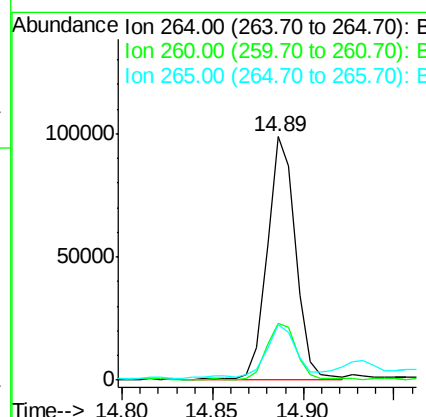
Manual Integrations
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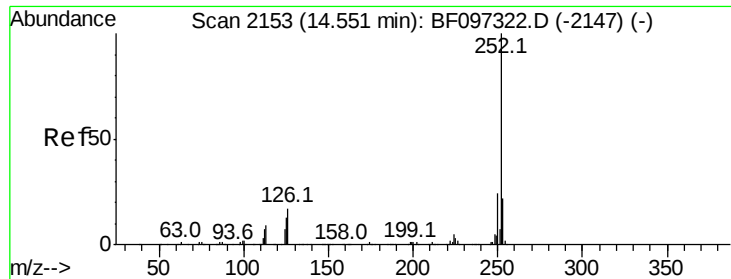
Sohil
8/7/2017 6:00:53 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.89 min Scan# 2227
Delta R.T. -0.09 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	22.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 43.898 ng m

RT: 14.54 min Scan# 2168

Delta R.T. -0.08 min

Lab File: BF097407.D

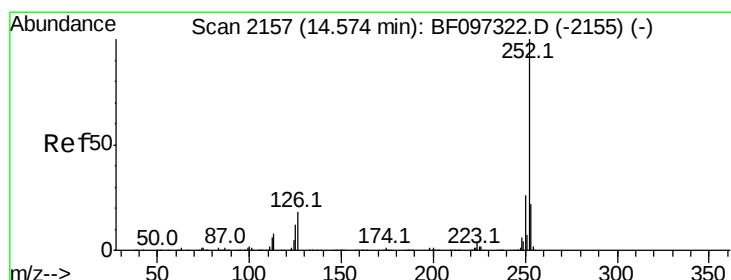
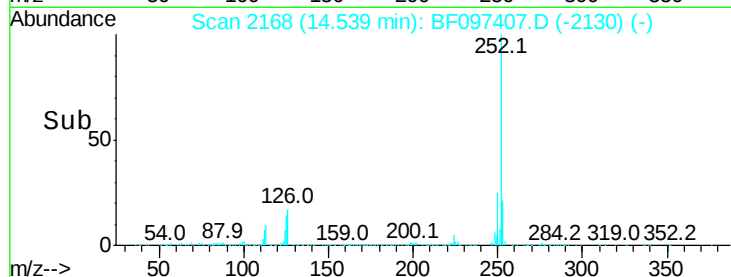
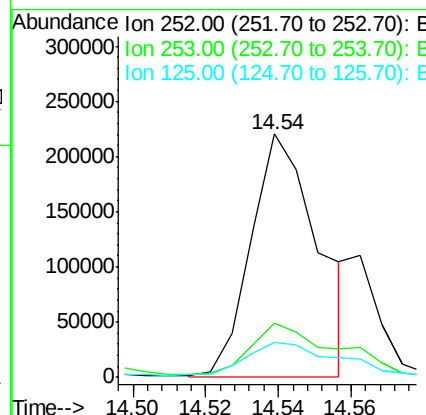
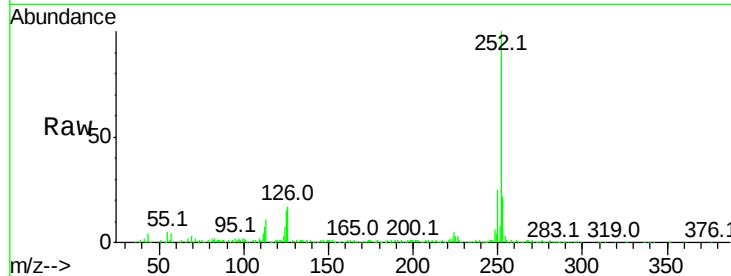
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	14.6	9.8	14.8

Manual Integrations
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Sohil
8/7/2017 6:00:53 PM



#88

Benzo(k)fluoranthene

Concen: 10.223 ng m

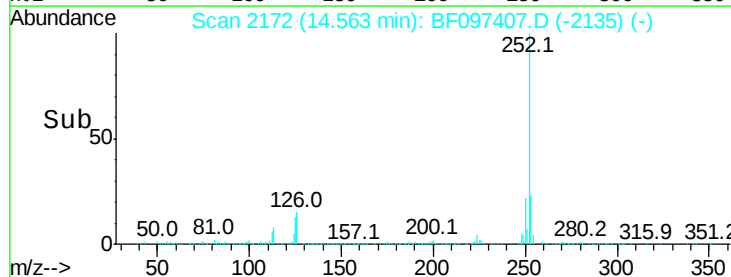
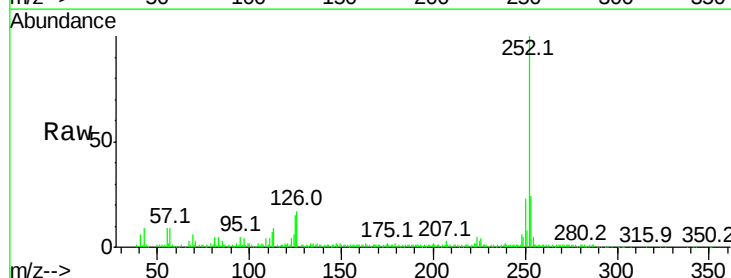
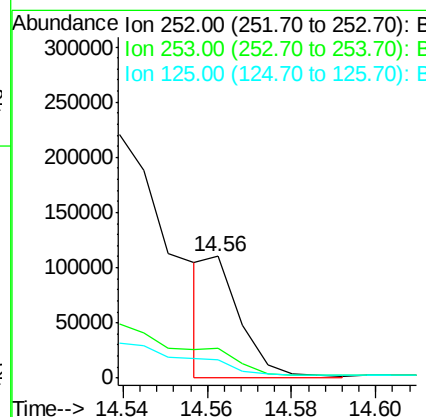
RT: 14.56 min Scan# 2172

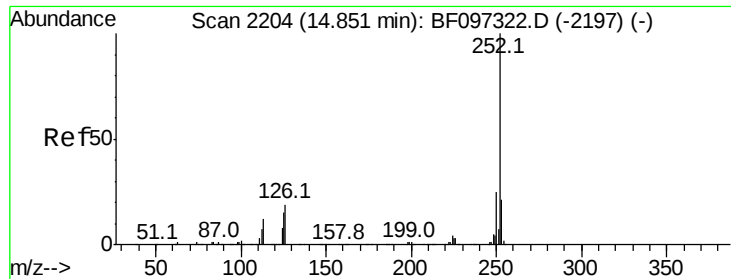
Delta R.T. -0.08 min

Lab File: BF097407.D

Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.4	27.6
125	14.7	13.1	19.7





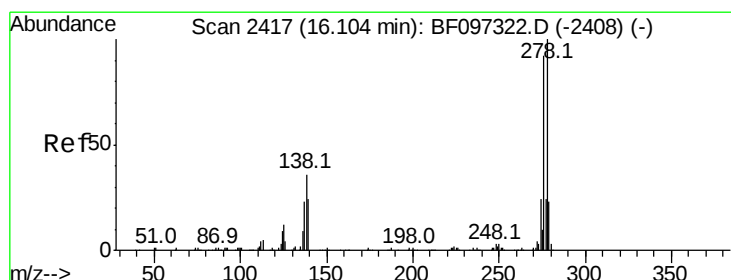
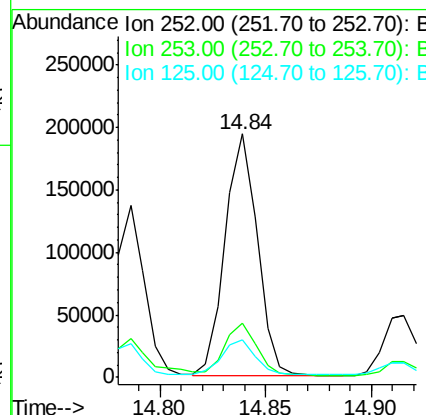
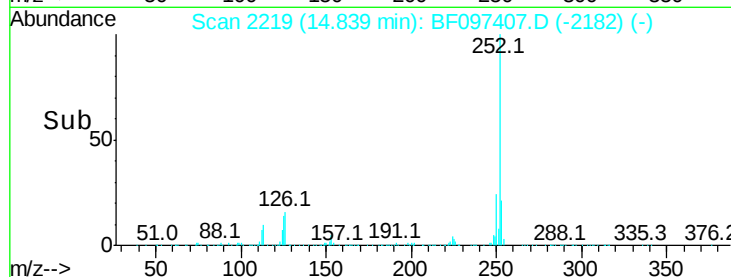
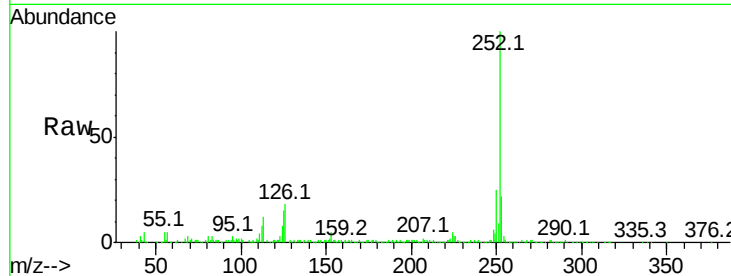
#89
Benzo(a)pyrene
Concen: 34.450 ng
RT: 14.84 min Scan# 2219
Delta R.T. -0.08 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

Tot Ion	Ratio	Resp	Lower	Upper
252	100	204907		
253	22.4		17.5	26.3
125	15.2		11.0	16.4

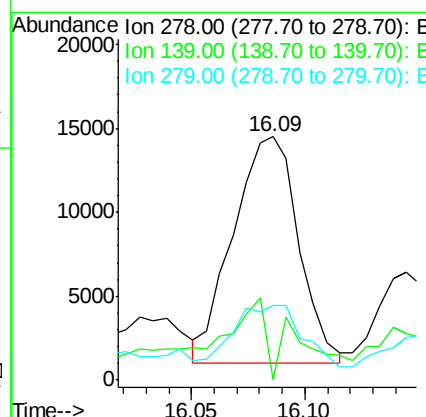
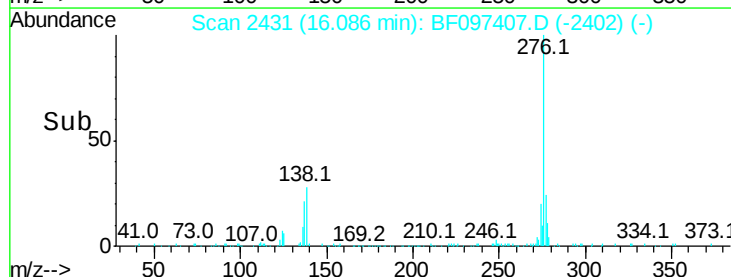
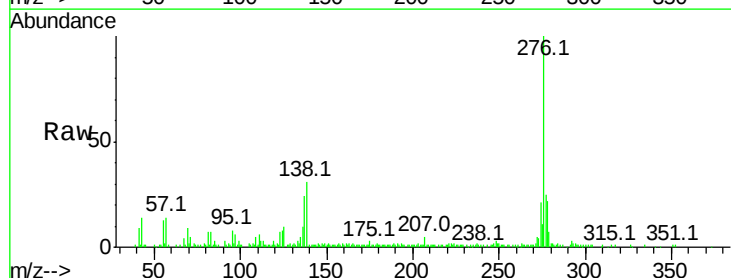
Manual Integrations
APPROVED

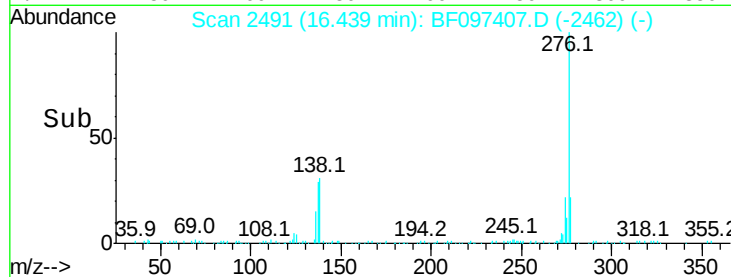
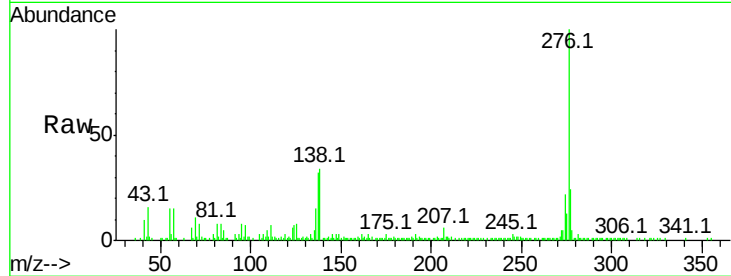
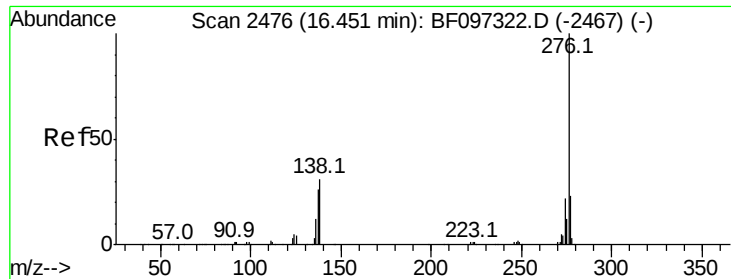
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 5.532 ng m
RT: 16.09 min Scan# 2431
Delta R.T. -0.13 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	26982		
139	0.0		16.6	24.8#
279	30.5		19.3	28.9#





#91
Benzo(a,h,i)perylene
Concen: 20.301 ng
RT: 16.44 min Scan# 2491
Delta R.T. -0.13 min
Lab File: BF097407.D
Acq: 5 Aug 2017 19:51

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.3	18.6	28.0
138	33.7	25.4	38.0

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-E

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