

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
 Data File : BF097433.D
 Acq On : 7 Aug 2017 17:06
 Operator : SJ/JU
 Sample : I4639-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SA-06-080317-A

Manual Integrations
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 8/9/2017 7:55:52 PM

Quant Time: Aug 08 05:18:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.41	152	99095	20.00	ng	0.00
21) Naphthalene-d8	7.69	136	363517	20.00	ng	0.00
38) Acenaphthene-d10	9.44	164	146893	20.00	ng	0.00
63) Phenanthrene-d10	10.91	188	208319	20.00	ng	0.00
75) Chrysene-d12	13.54	240	172994	20.00	ng	0.00
86) Perylene-d12	14.88	264	145204	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.00	112	631493	96.07	ng	0.00
7) Phenol-d6	6.08	99	740044	98.61	ng	0.00
23) Nitrobenzene-d5	6.98	82	470626	75.95	ng	-0.01
41) 2,4,6-Tribromophenol	10.23	330	117245	101.02	ng	0.00
44) 2-Fluorobiphenyl	8.77	172	680897	78.67	ng	0.00
78) Terphenyl-d14	12.50	244	412698	48.64	ng	0.00

Target Compounds				Qvalue		
48) Acenaphthylene	9.30	152	65901	4.650	ng	98
49) Dimethylphthalate	9.17	163	153872	13.794	ng	97
51) Acenaphthene	9.47	154	43563	5.219	ng	98
54) Dibenzofuran	9.65	168	53002	4.767	ng	# 95
57) Fluorene	9.98	166	95814	11.465	ng	98
70) Phenanthrene	10.93	178	486444	43.581	ng	98
71) Anthracene	10.99	178	127441	11.148	ng	98
72) Carbazole	11.15	167	50640	4.504	ng	97
74) Fluoranthene	12.12	202	646852	59.156	ng	96
77) Pyrene	12.34	202	685583	48.408	ng	99
80) Benzo(a)anthracene	13.53	228	345704	30.884	ng	98
82) Chrysene	13.56	228	344930	31.558	ng	98
85) Indeno(1,2,3-cd)pyrene	16.07	276	146330	15.613	ng	95
87) Benzo(b)fluoranthene	14.53	252	412033m	47.205	ng	
88) Benzo(k)fluoranthene	14.55	252	152411m	18.324	ng	
89) Benzo(a)pyrene	14.83	252	287692	36.013	ng	96
90) Dibenzo(a,h)anthracene	16.07	278	38014	5.803	ng	# 85
91) Benzo(g,h,i)perylene	16.43	276	150227	21.868	ng	97

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

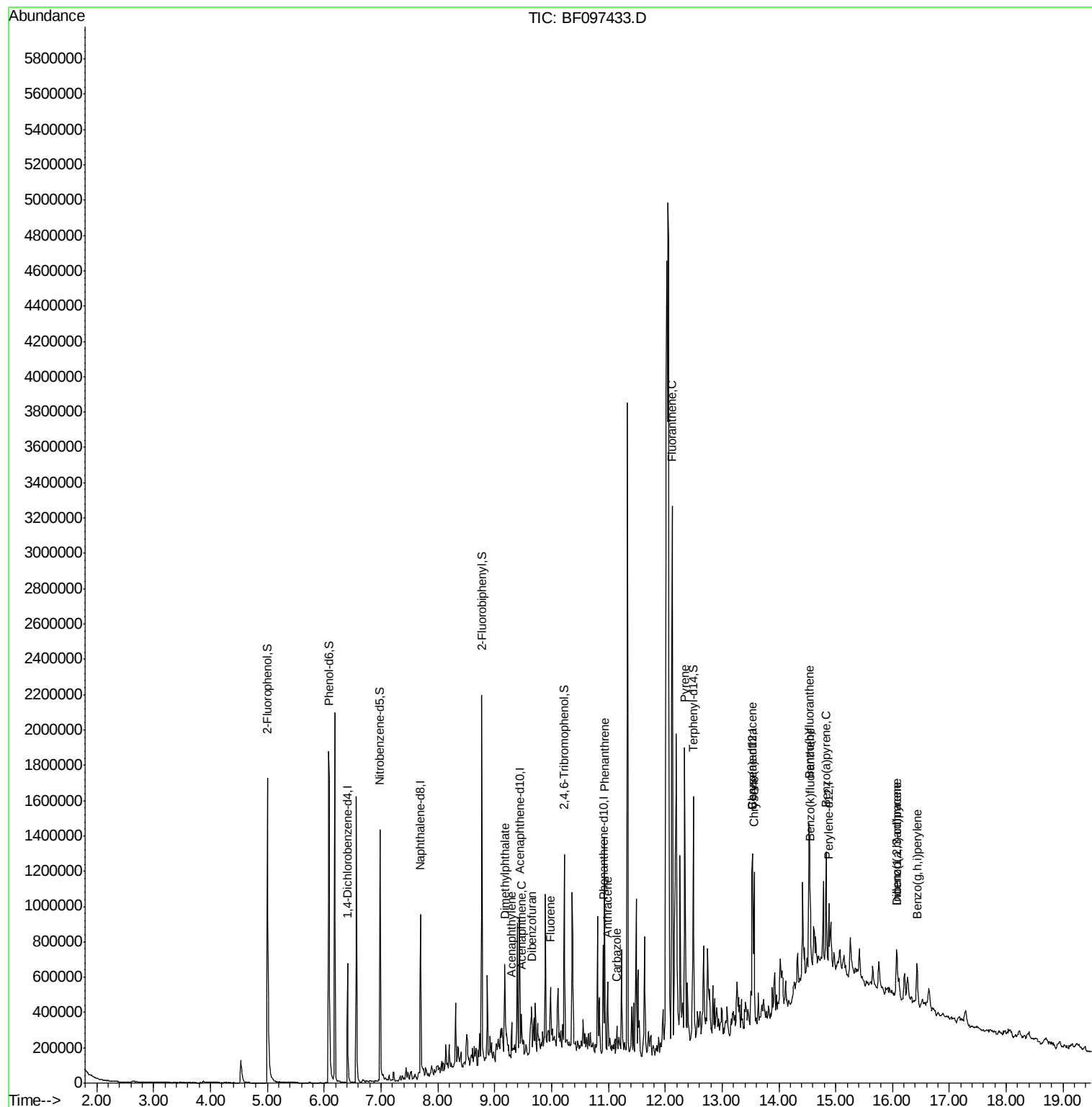
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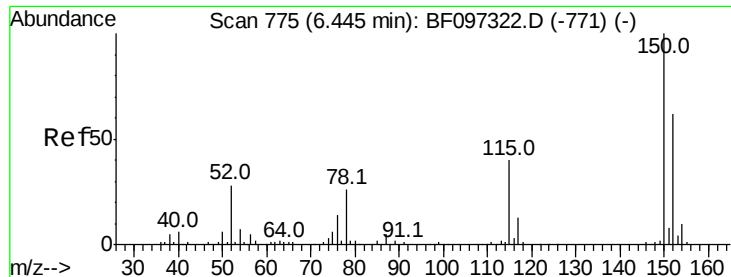
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#1

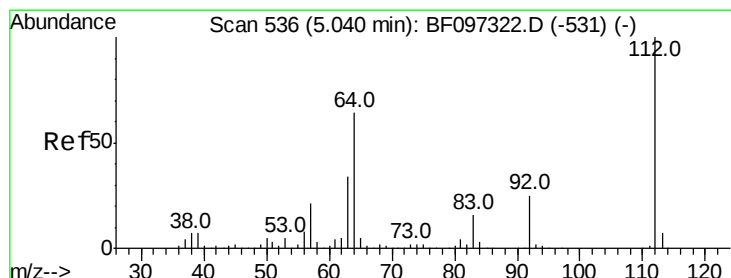
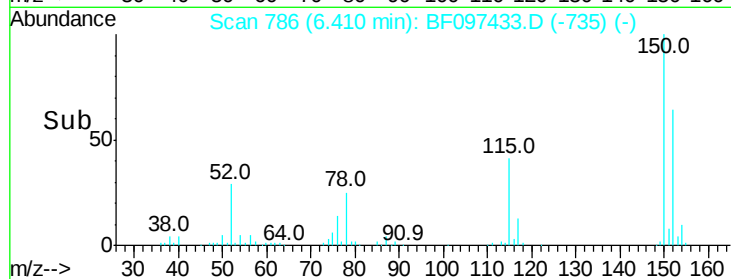
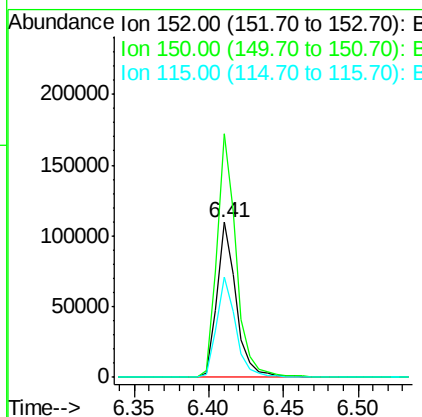
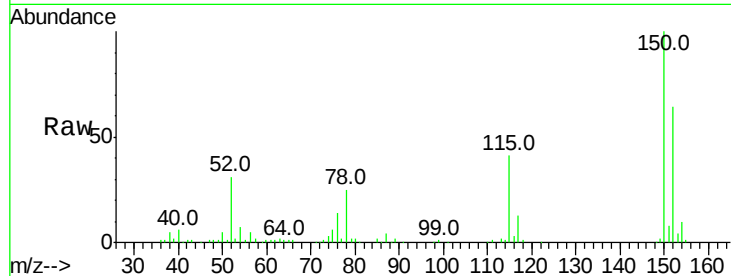
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.41 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Instrument :
BNA_F
ClientSampleId :
SA-06-080317-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	64.3	52.2	78.2

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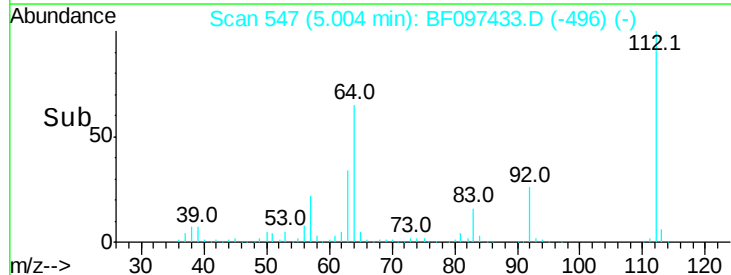
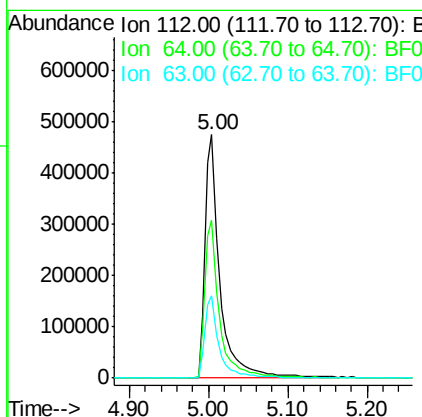
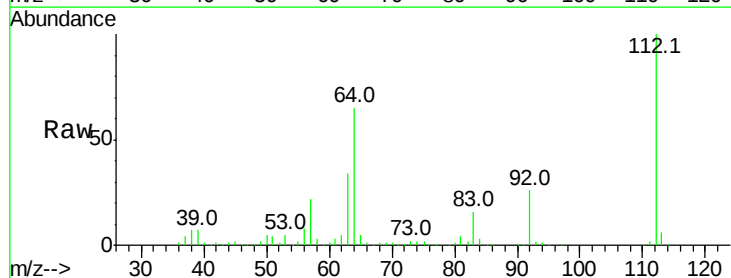
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#5

2-Fluorophenol
Concen: 96.066 ng
RT: 5.00 min Scan# 547
Delta R.T. 0.00 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.7	46.0	69.0
63	33.9	23.4	35.0





#7

Phenol-d6

Concen: 98.614 ng

RT: 6.08 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

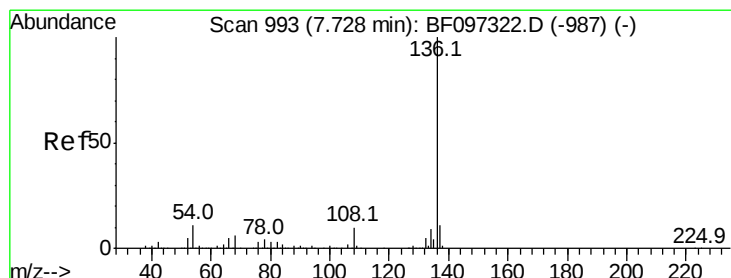
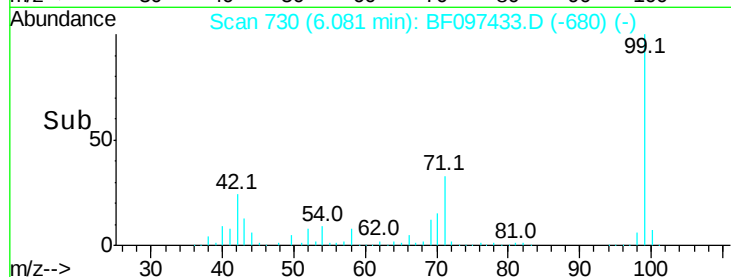
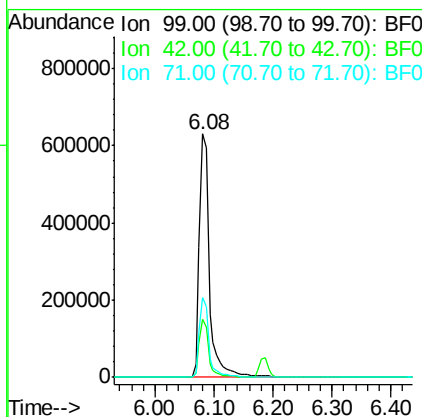
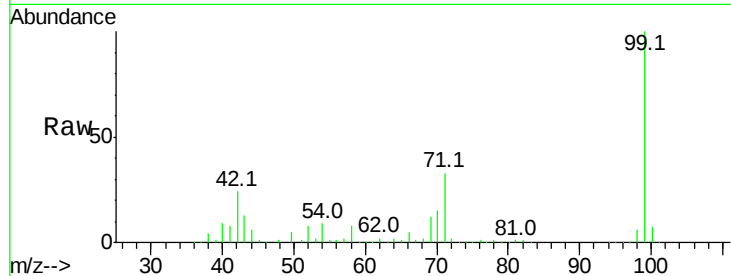
ClientSampleId :

SA-06-080317-A

Tot Ion:	99	Resp:	740044
Ion Ratio	Lower	Upper	
99	100		
42	24.0	13.5	20.3#
71	32.8	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

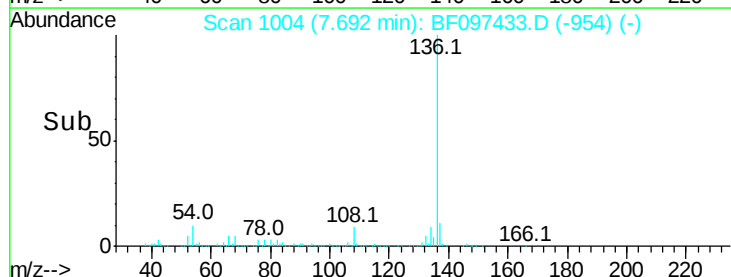
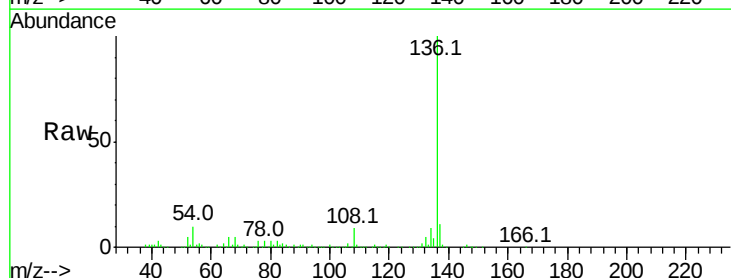
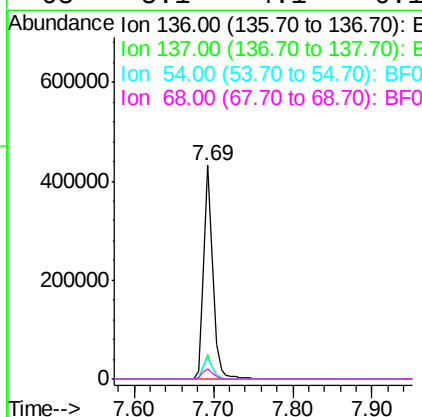
RT: 7.69 min Scan# 1004

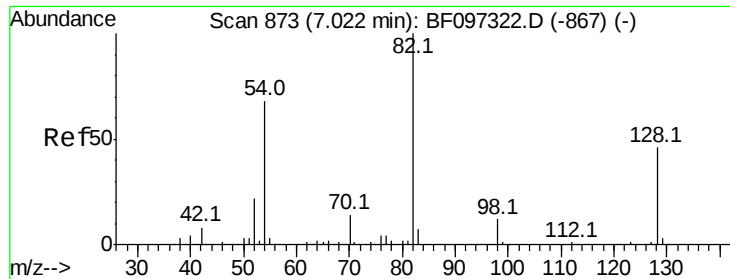
Delta R.T. -0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Tgt Ion:	136	Resp:	363517
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.5	12.7
54	10.4	4.9	7.3#
68	5.1	4.1	6.1





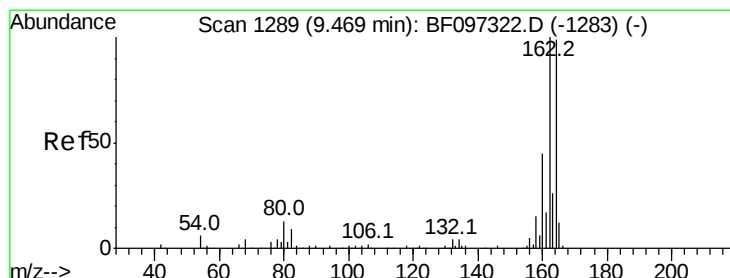
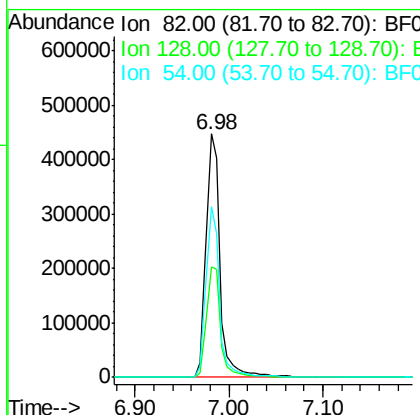
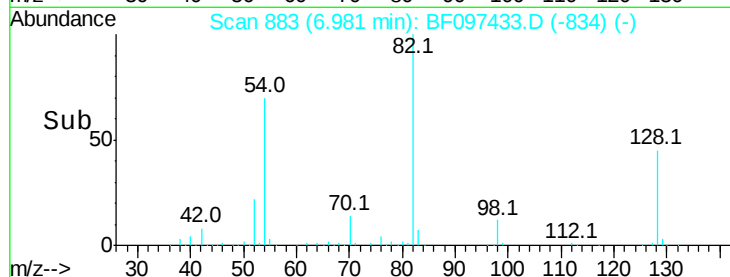
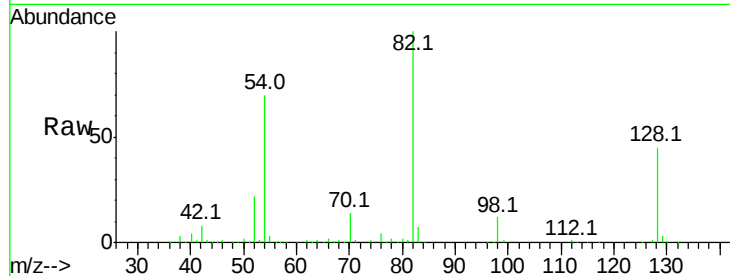
#23
 Nitrobenzene-d5
 Concen: 75.949 ng
 RT: 6.98 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF097433.D
 Acq: 7 Aug 2017 17:06

Instrument :
 BNA_F
 ClientSampleId :
 SA-06-080317-A

Tot Ion: 82 Resp: 470626
 Ion Ratio Lower Upper
 82 100
 128 45.1 34.0 51.0
 54 70.1 42.2 63.2#

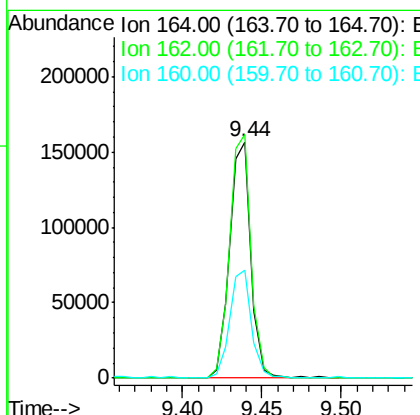
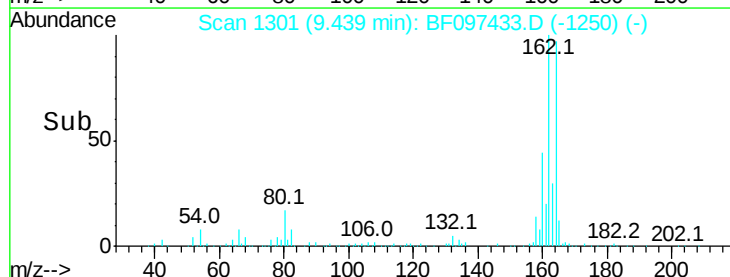
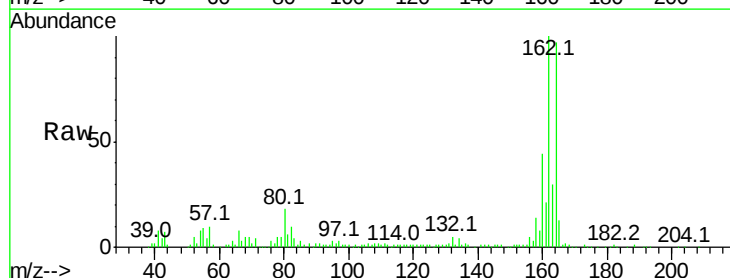
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.44 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: BF097433.D
 Acq: 7 Aug 2017 17:06

Tgt Ion: 164 Resp: 146893
 Ion Ratio Lower Upper
 164 100
 162 103.1 82.6 123.8
 160 45.6 36.2 54.2





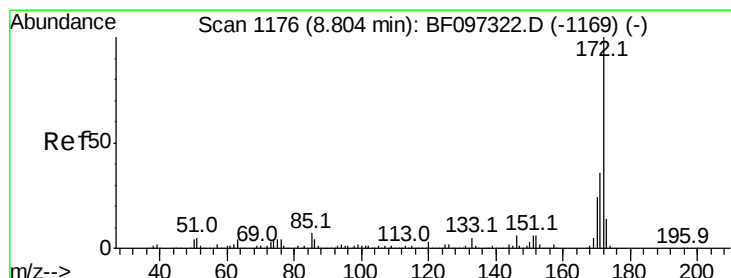
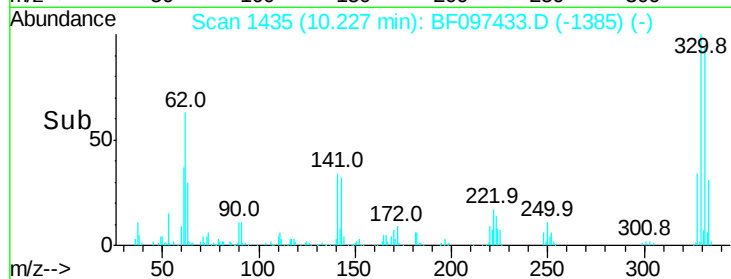
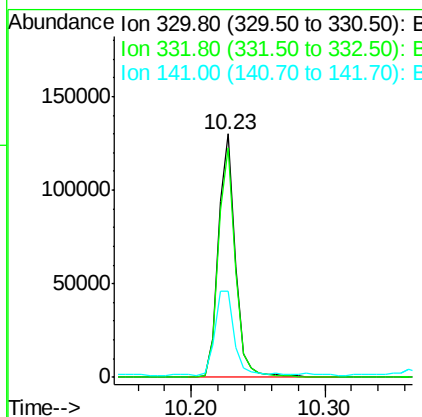
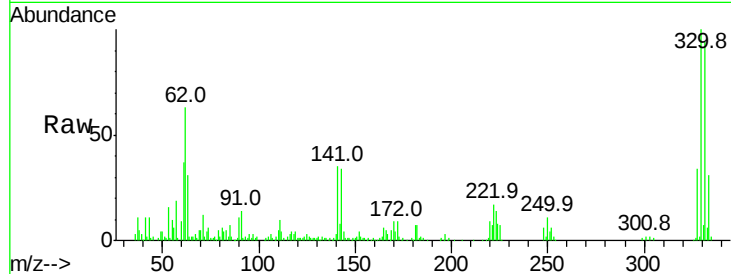
#41
 2,4,6-Tribromophenol
 Concen: 101.021 ng
 RT: 10.23 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF097433.D
 Acq: 7 Aug 2017 17:06

Instrument :
 BNA_F
 ClientSampleId :
 SA-06-080317-A

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.9	76.6	115.0	
141	41.5	31.4	47.2	

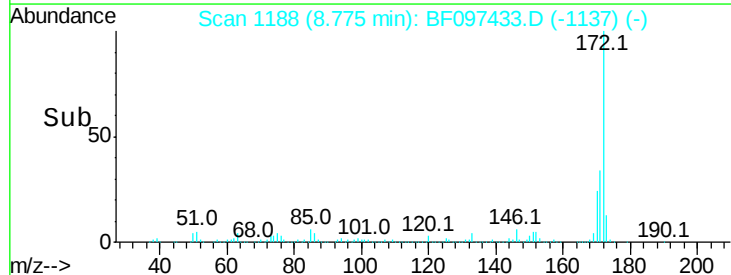
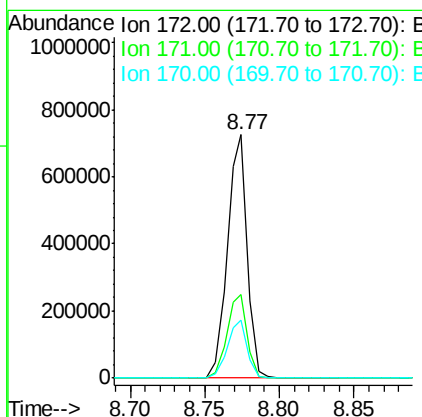
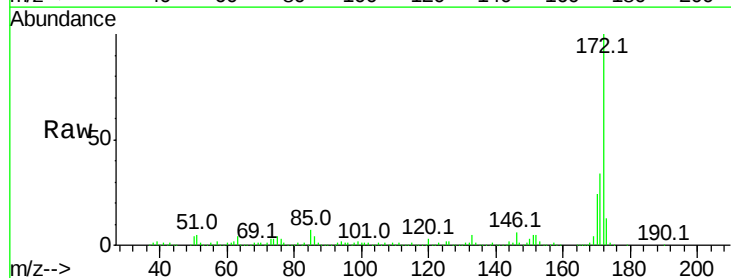
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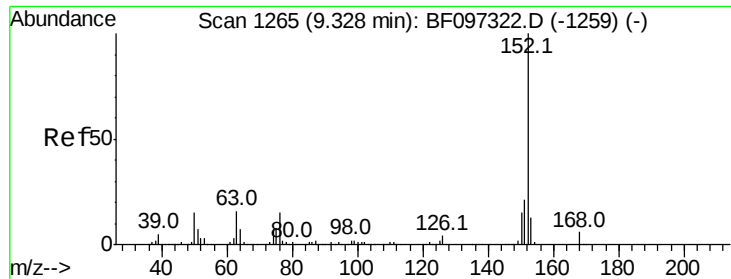
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#44
 2-Fluorobiphenyl
 Concen: 78.666 ng
 RT: 8.77 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: BF097433.D
 Acq: 7 Aug 2017 17:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.4	29.6	44.4	
170	24.1	19.8	29.8	





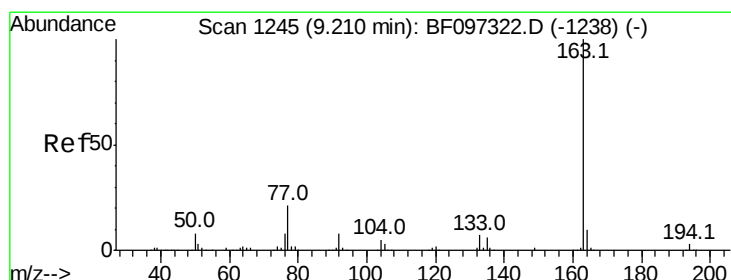
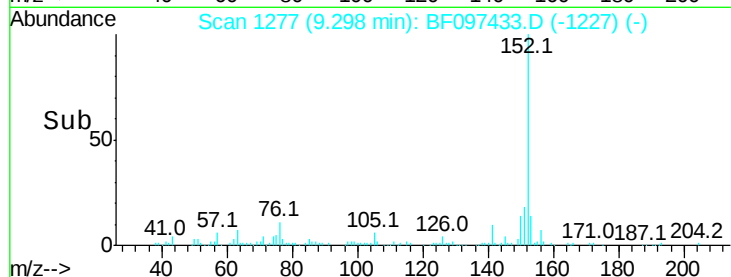
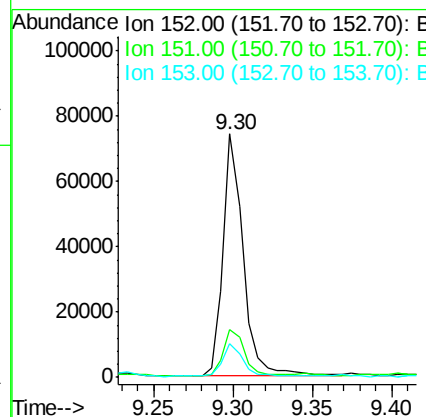
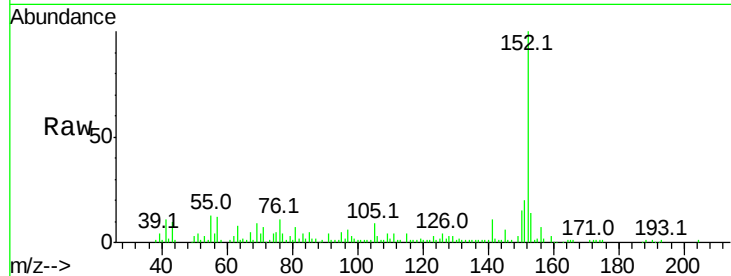
#48
Acenaphthylene
Concen: 4.650 ng
RT: 9.30 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Instrument :
BNA_F
ClientSampleId :
SA-06-080317-A

Tot Ion:	152	Resp:	65901
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.8	25.2
153	13.7	10.8	16.2

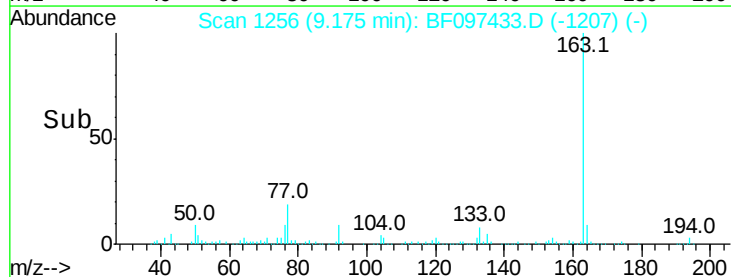
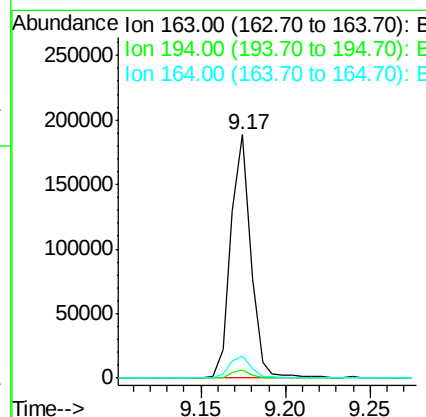
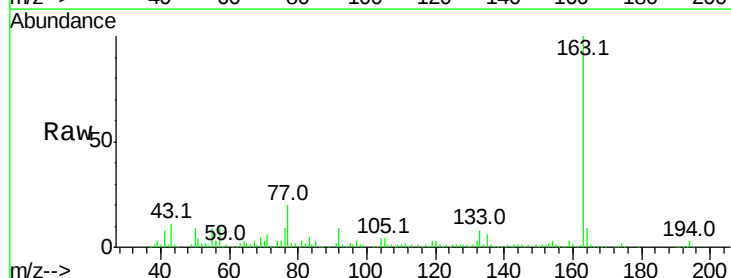
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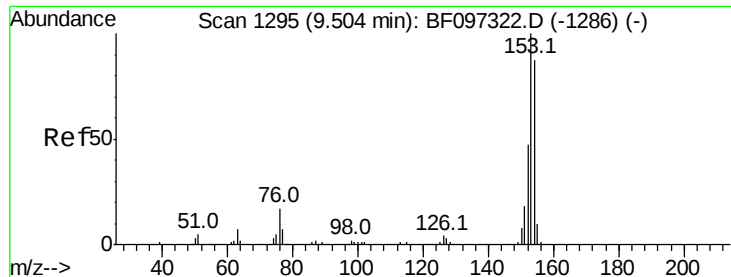
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#49
Dimethylphthalate
Concen: 13.794 ng
RT: 9.17 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Tgt Ion:	163	Resp:	153872
Ion Ratio	Lower	Upper	
163	100		
194	3.1	2.6	4.0
164	9.3	8.4	12.6





#51

Acenaphthene

Concen: 5.219 ng

RT: 9.47 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

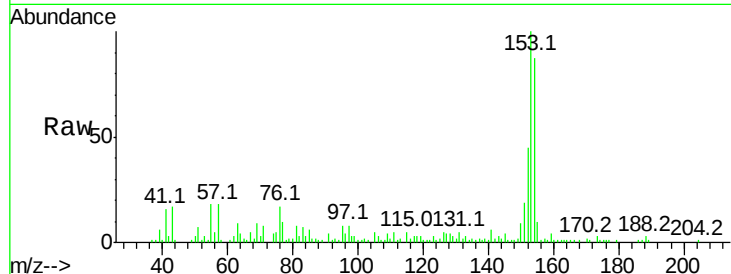
ClientSampleId :

SA-06-080317-A

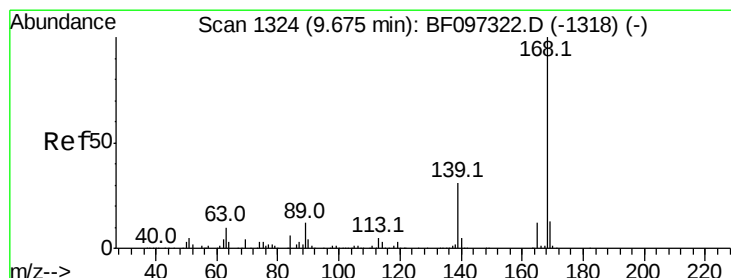
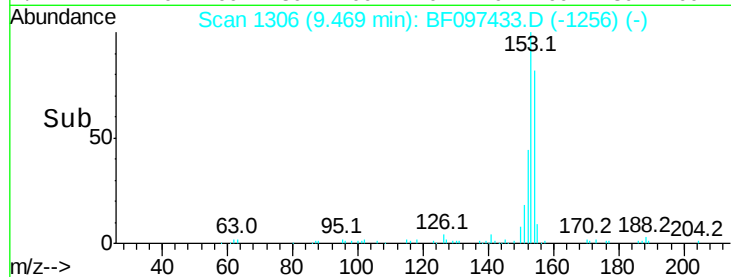
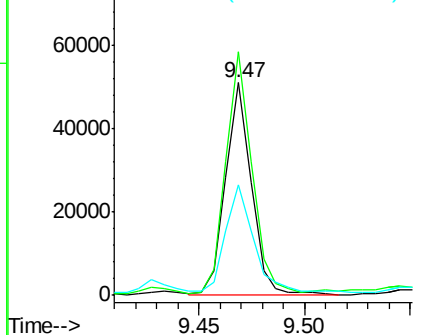
Tot Ion:	154	Resp:	43563
Ion Ratio	Lower	Upper	
154	100		
153	114.5	90.5	135.7
152	52.0	43.6	65.4

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



#54

Dibenzofuran

Concen: 4.767 ng

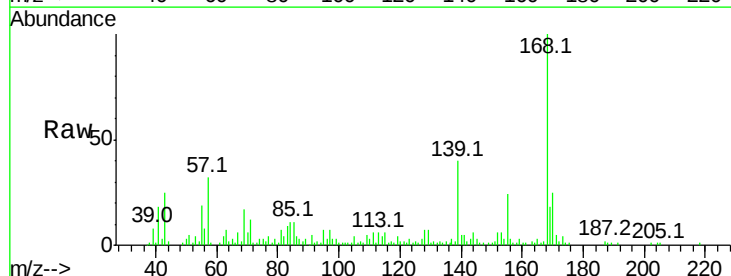
RT: 9.65 min Scan# 1336

Delta R.T. 0.00 min

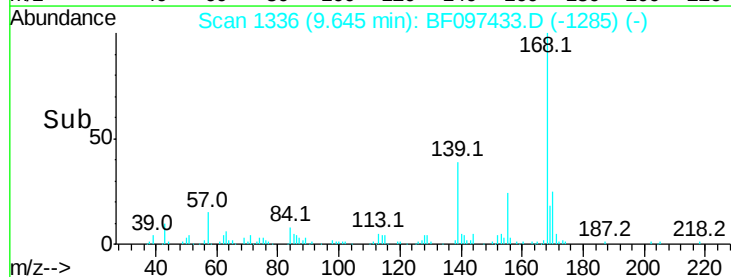
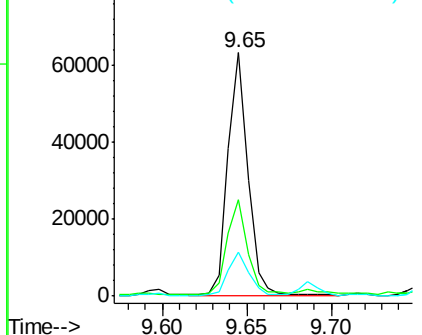
Lab File: BF097433.D

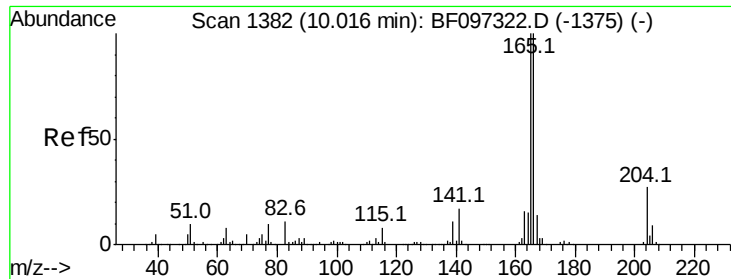
Acq: 7 Aug 2017 17:06

Tgt Ion:	168	Resp:	53002
Ion Ratio	Lower	Upper	
168	100		
139	39.7	30.6	45.8
169	18.0	10.8	16.2#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





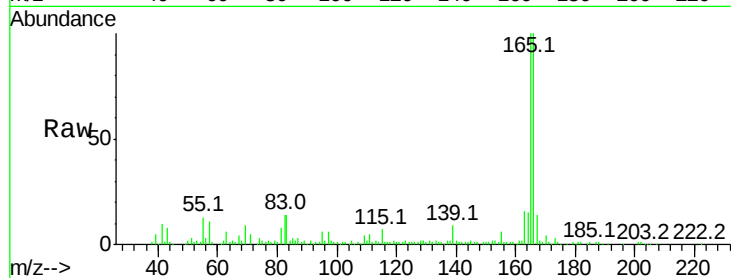
#57
Fluorene
Concen: 11.465 ng
RT: 9.98 min Scan# 1393
Delta R.T. -0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Instrument :
BNA_F
ClientSampleId :
SA-06-080317-A

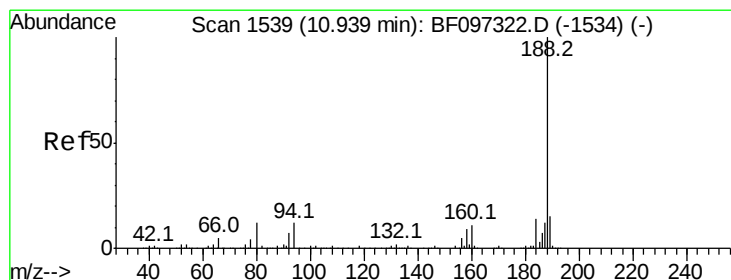
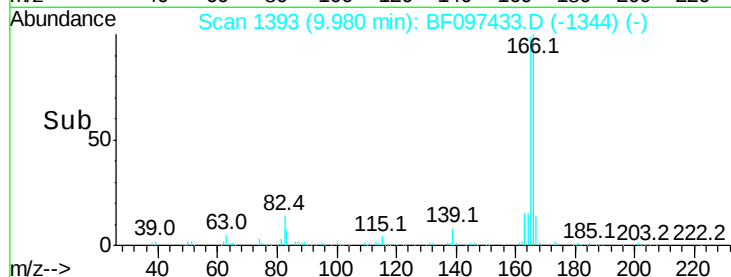
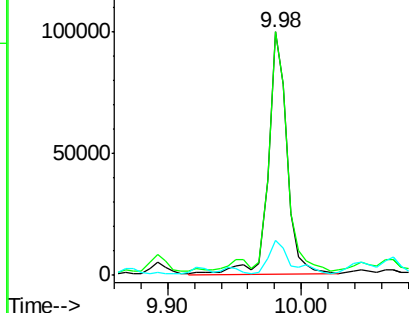
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.9	78.8	118.2
167	14.2	10.6	16.0

Manual Integrations
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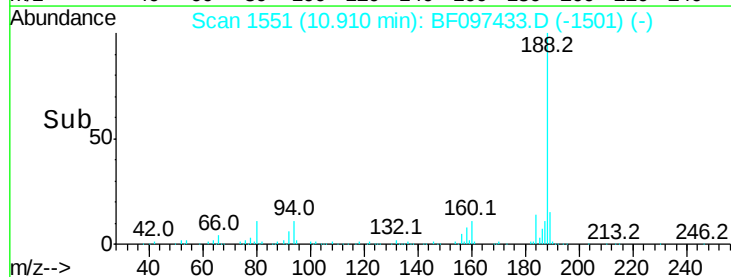
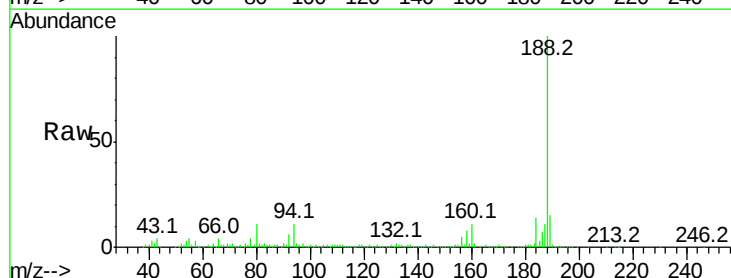
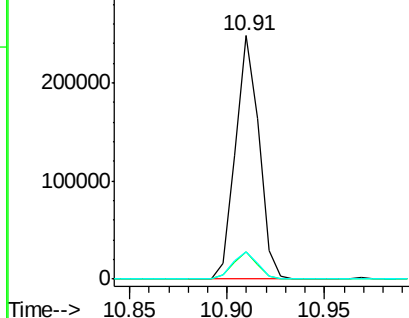
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

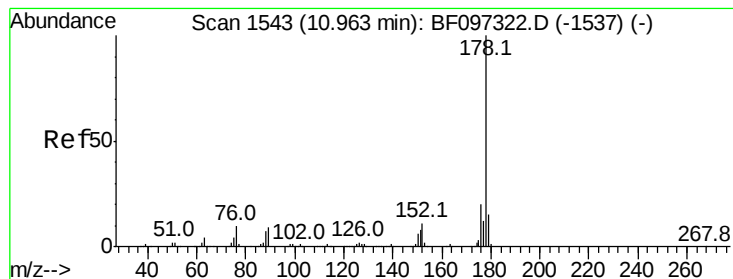


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.91 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	9.4	14.2
80	11.1	10.2	15.2

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 43.581 ng

RT: 10.93 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

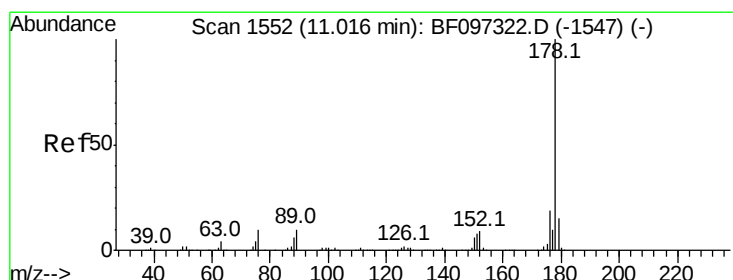
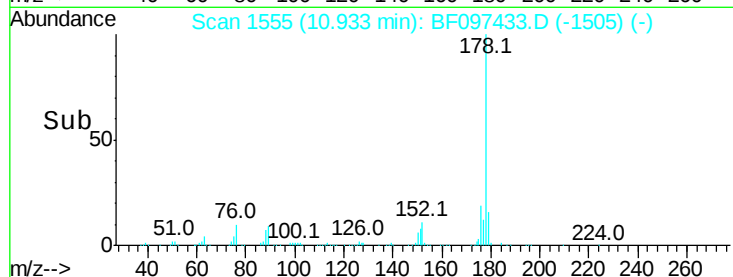
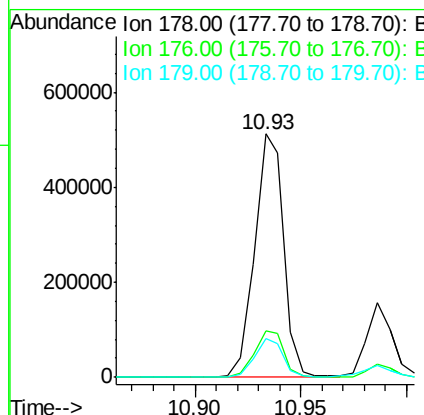
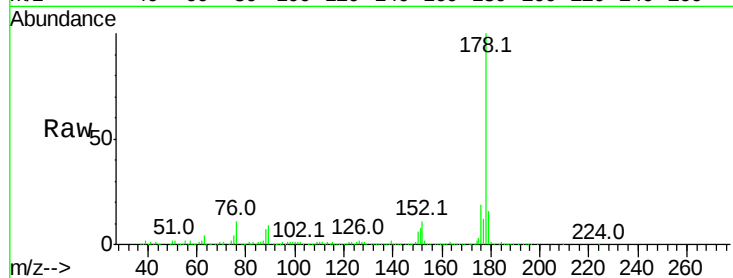
ClientSampleId :

SA-06-080317-A

Tot Ion:178	Resp:	486444
Ion Ratio	Lower	Upper
178	100	
176	19.2	16.2 24.4
179	16.1	12.6 19.0

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#71

Anthracene

Concen: 11.148 ng

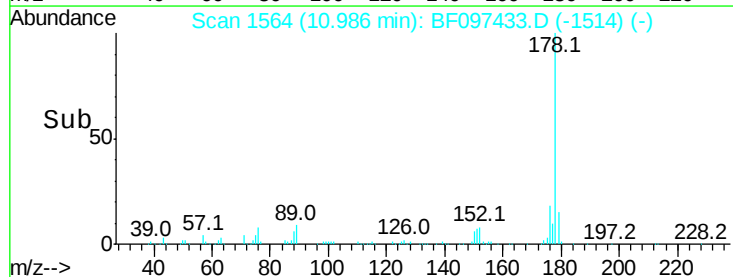
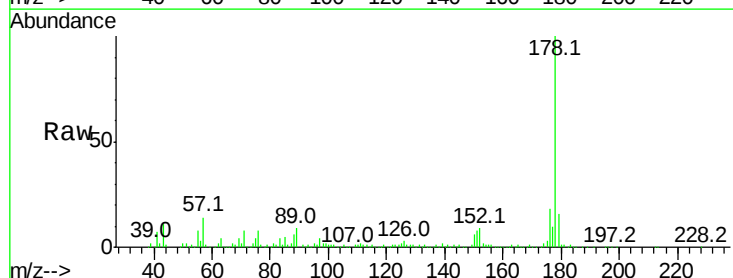
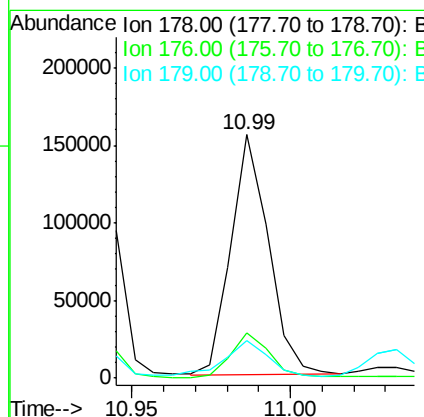
RT: 10.99 min Scan# 1564

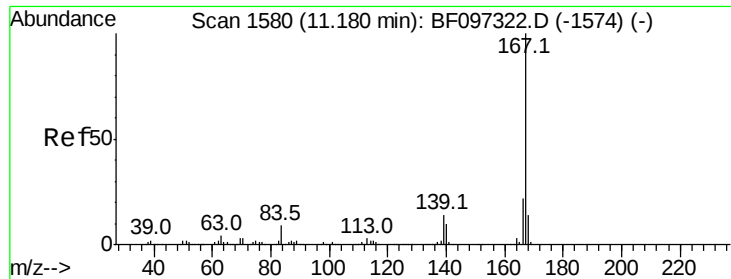
Delta R.T. -0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Tgt Ion:178	Resp:	127441
Ion Ratio	Lower	Upper
178	100	
176	18.5	15.8 23.8
179	15.7	12.7 19.1





#72

Carbazole

Concen: 4.504 ng

RT: 11.15 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

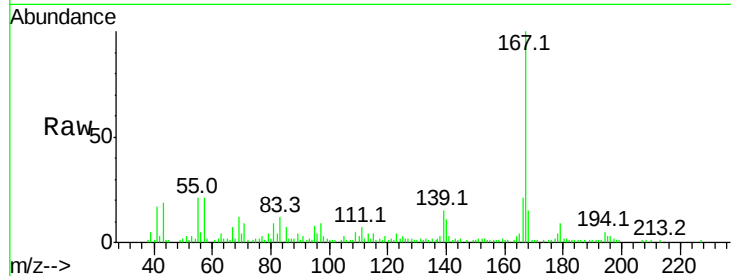
ClientSampleId :

SA-06-080317-A

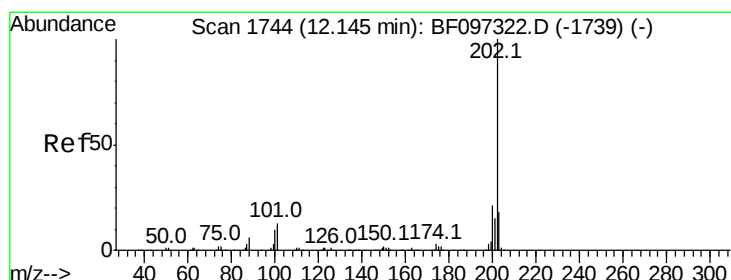
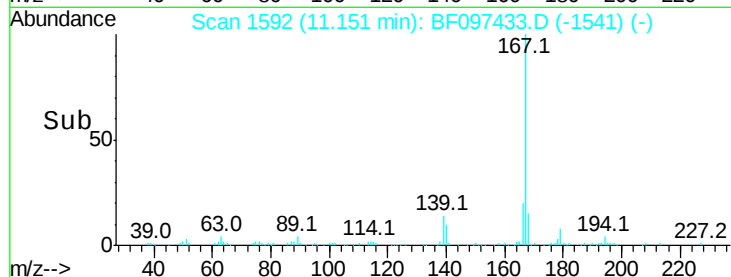
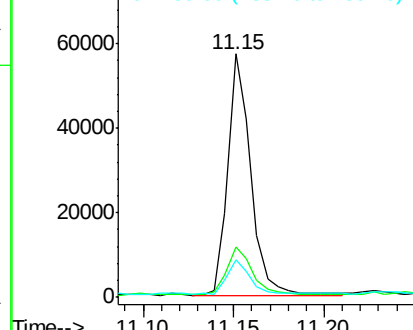
Tot Ion:	167	Resp:	50640
Ion Ratio	Lower	Upper	
167	100		
166	20.6	18.1	27.1
139	15.2	11.7	17.5

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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: 59.156 ng

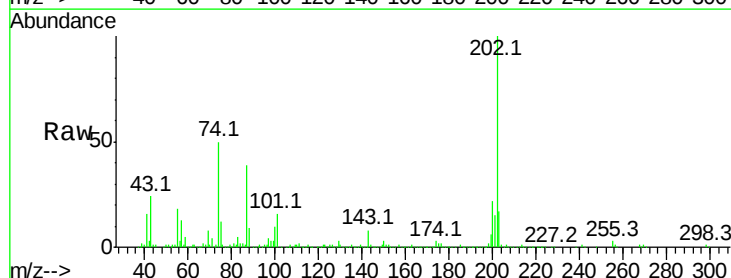
RT: 12.12 min Scan# 1757

Delta R.T. 0.01 min

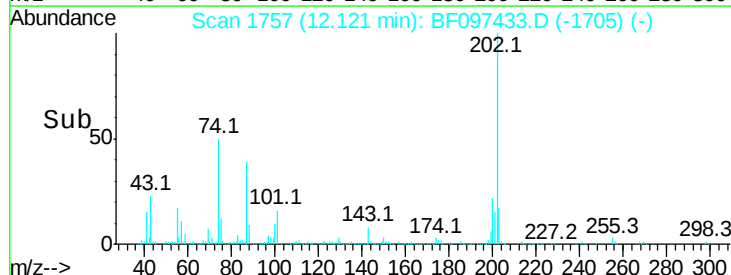
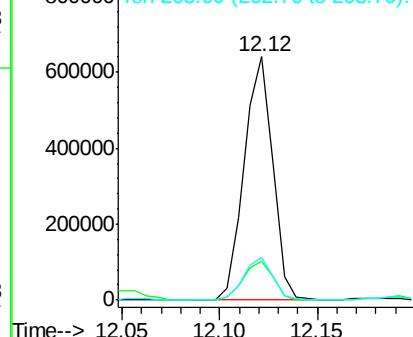
Lab File: BF097433.D

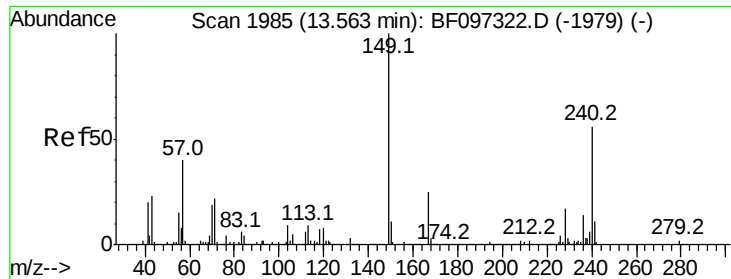
Acq: 7 Aug 2017 17:06

Tgt Ion:	202	Resp:	646852
Ion Ratio	Lower	Upper	
202	100		
101	16.0	0.0	33.2
203	17.4	0.0	38.1



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.54 min Scan# 1998

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

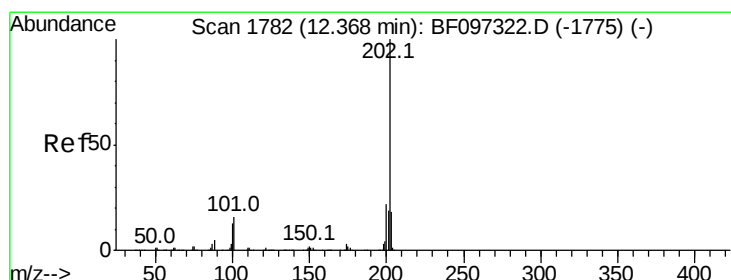
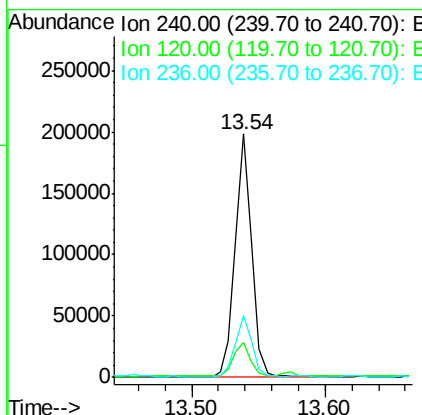
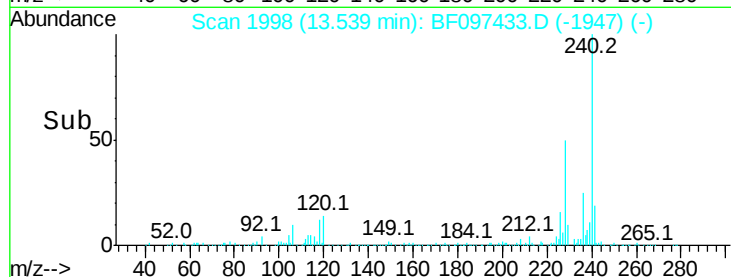
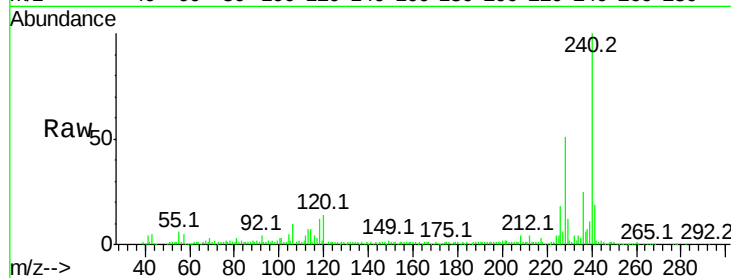
ClientSampleId :

SA-06-080317-A

Tot Ion:	240	Resp:	172994
Ion Ratio	Lower	Upper	
240	100		
120	14.2	5.8	8.8#
236	25.3	20.5	30.7

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#77

Pyrene

Concen: 48.408 ng

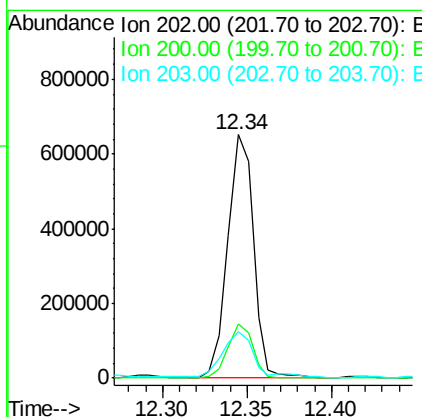
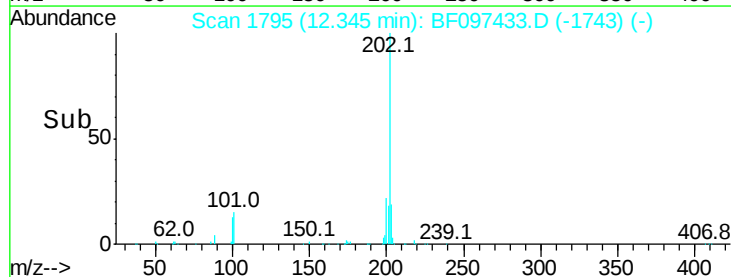
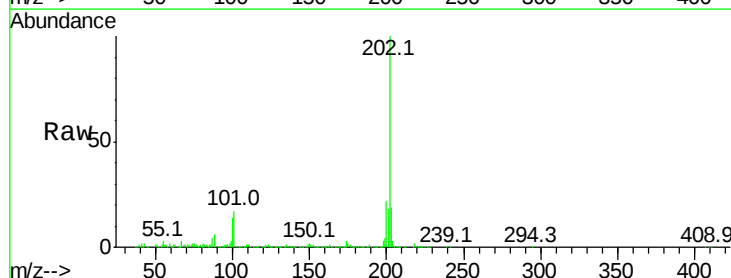
RT: 12.34 min Scan# 1795

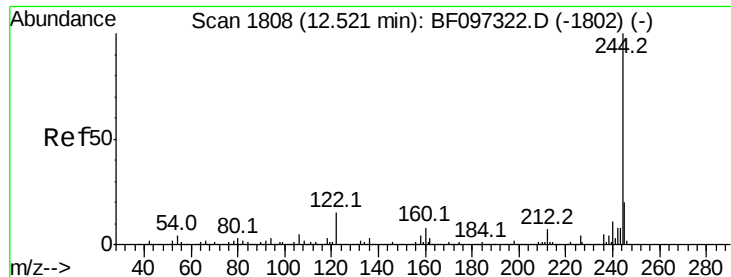
Delta R.T. 0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Tgt Ion:	202	Resp:	685583
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.6	26.4
203	18.9	14.4	21.6





#78

Terphenyl-d14

Concen: 48.639 ng

RT: 12.50 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

ClientSampleId :

SA-06-080317-A

Tot Ion:244 Resp: 412698

Ion Ratio Lower Upper

244 100

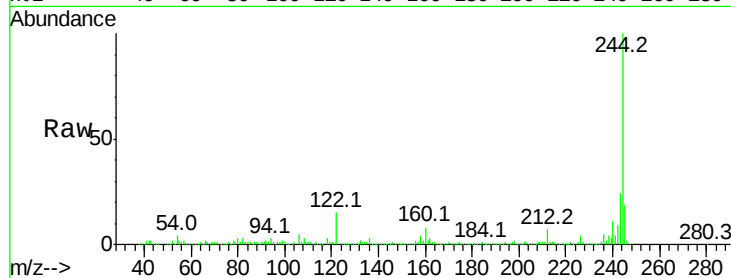
212 6.6 6.0 9.0

122 14.5 10.3 15.5

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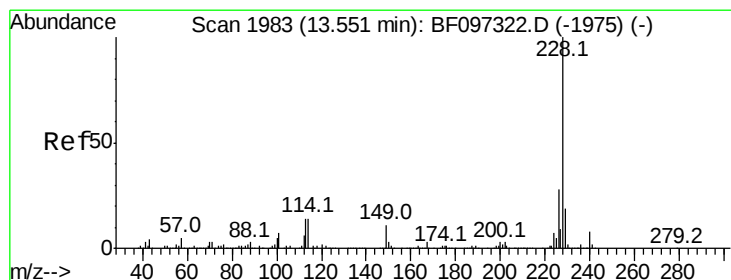
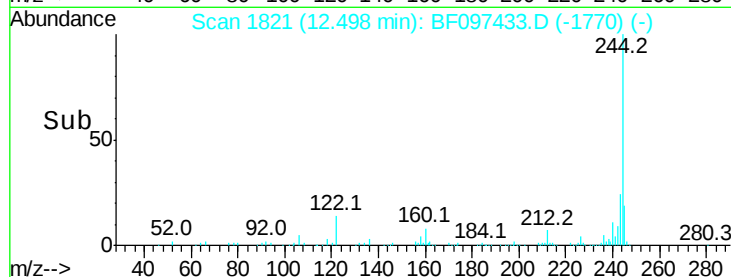
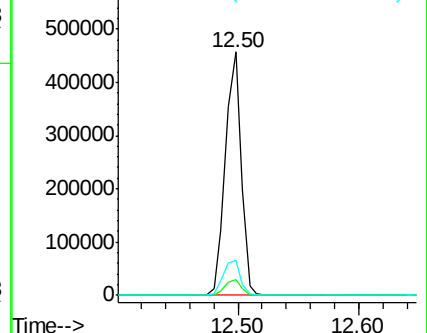
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 30.884 ng

RT: 13.53 min Scan# 1996

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

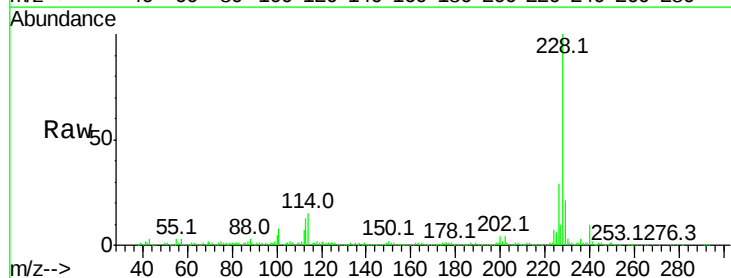
Tgt Ion:228 Resp: 345704

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

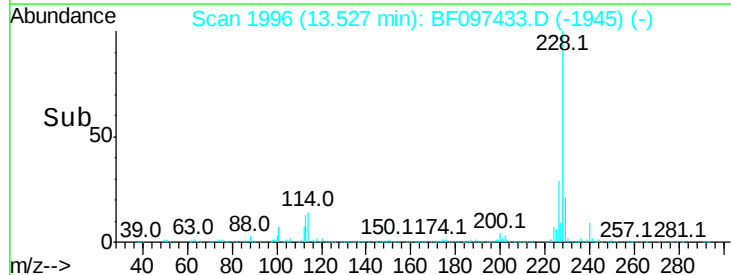
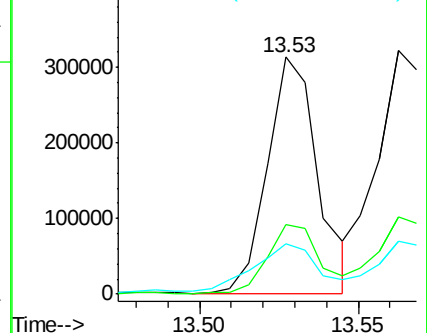
229 21.2 16.3 24.5

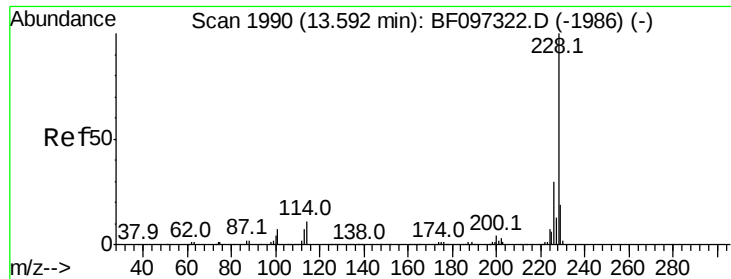


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 31.558 ng

RT: 13.56 min Scan# 2002

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

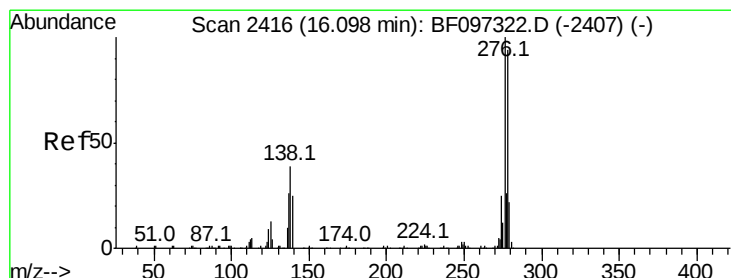
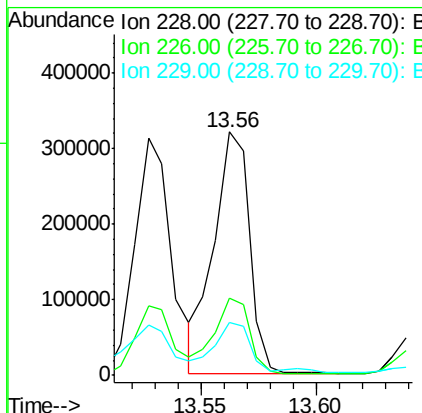
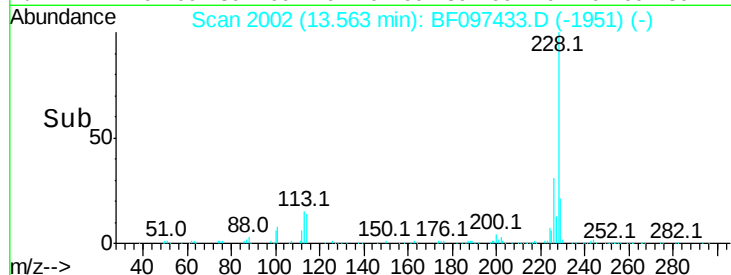
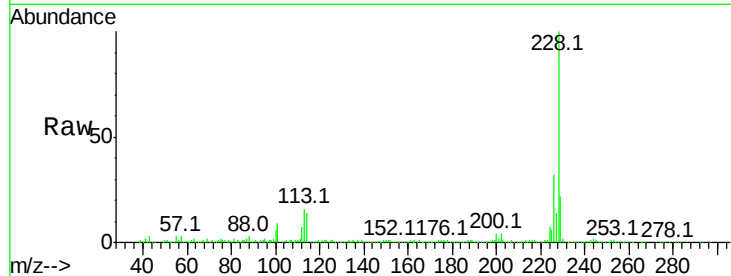
ClientSampleId :

SA-06-080317-A

Tot Ion:	228	Resp:	344930
Ion Ratio		Lower	Upper
228	100		
226	31.5	24.9	37.3
229	21.8	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 15.613 ng

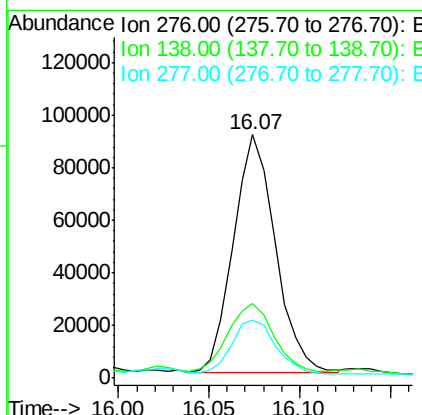
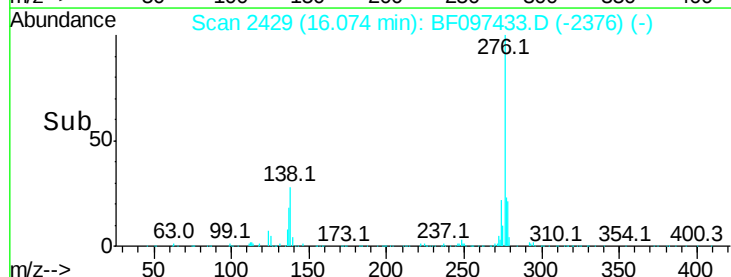
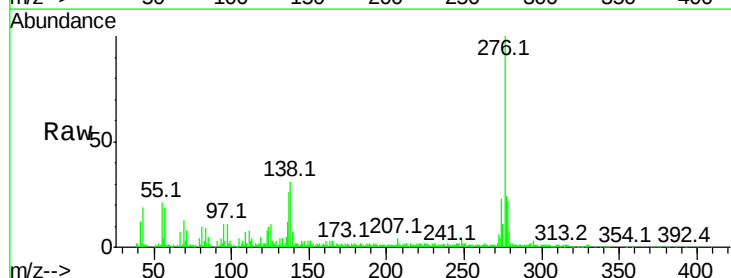
RT: 16.07 min Scan# 2429

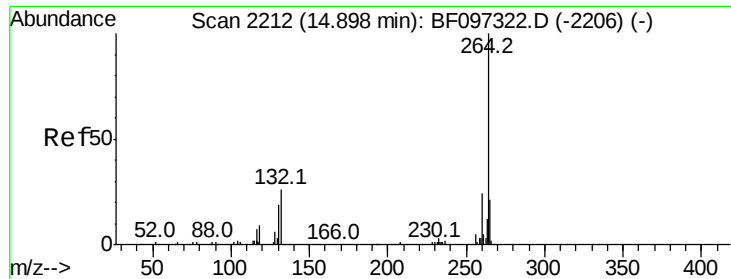
Delta R.T. 0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Tgt Ion:	276	Resp:	146330
Ion Ratio		Lower	Upper
276	100		
138	30.8	27.8	41.6
277	24.2	20.2	30.4





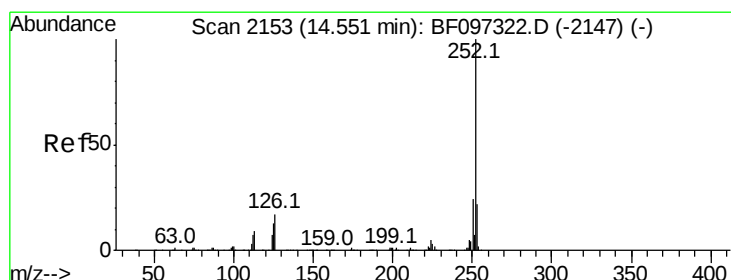
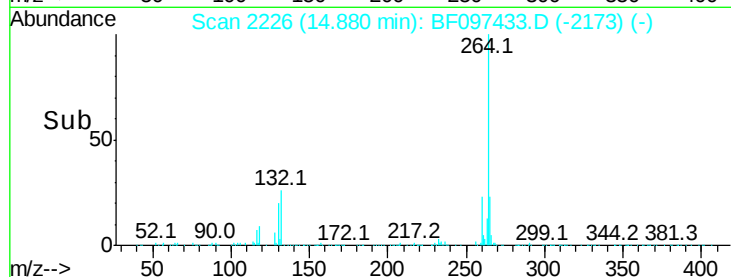
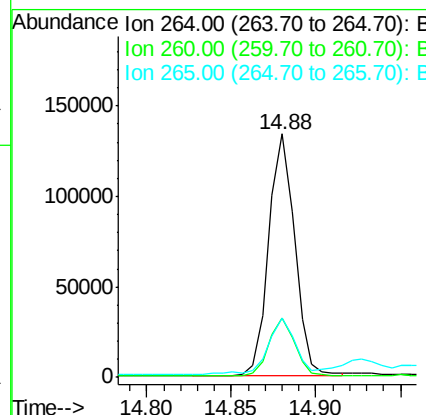
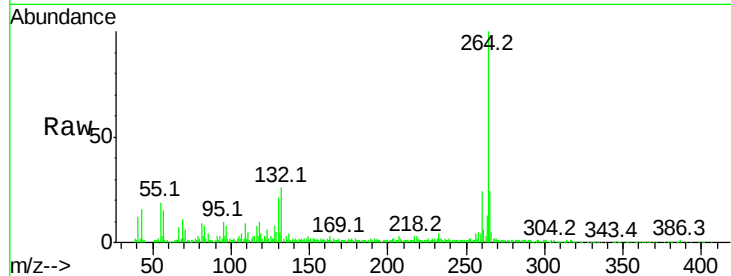
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.88 min Scan# 2226
Delta R.T. 0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Instrument :
BNA_F
ClientSampleId :
SA-06-080317-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	24.3	17.2	25.8

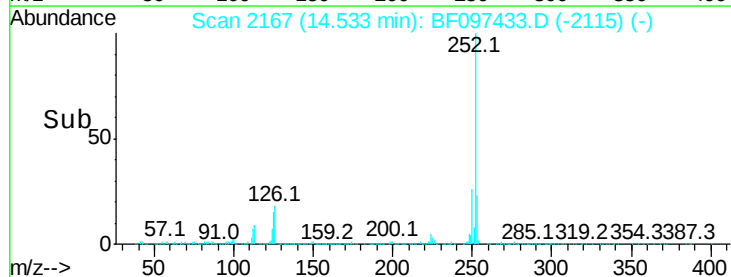
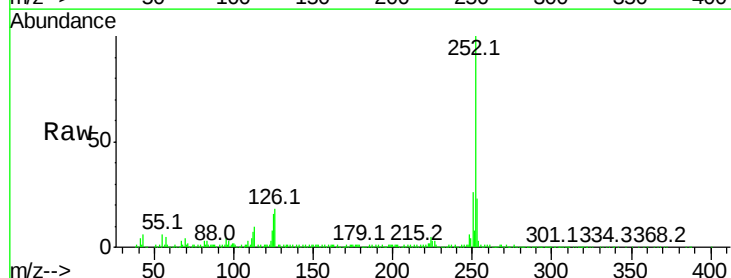
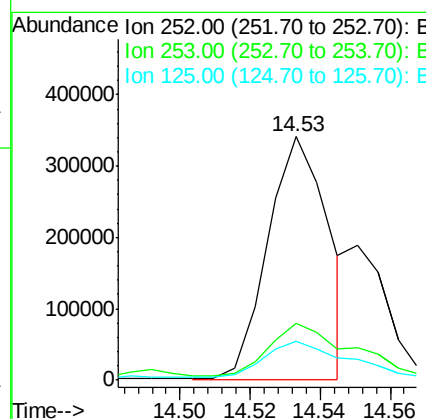
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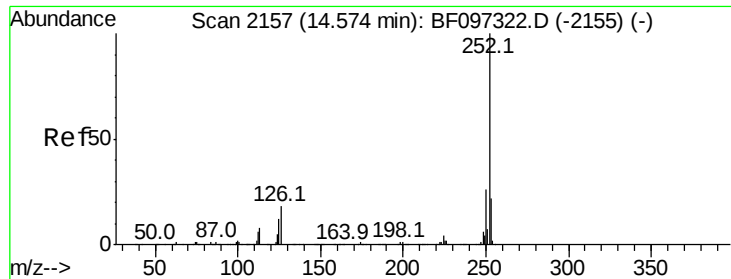
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#87
Benzo(b)fluoranthene
Concen: 47.205 ng m
RT: 14.53 min Scan# 2167
Delta R.T. 0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	16.2	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 18.324 ng

RT: 14.55 min Scan# 2170

Delta R.T. 0.00 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Instrument :

BNA_F

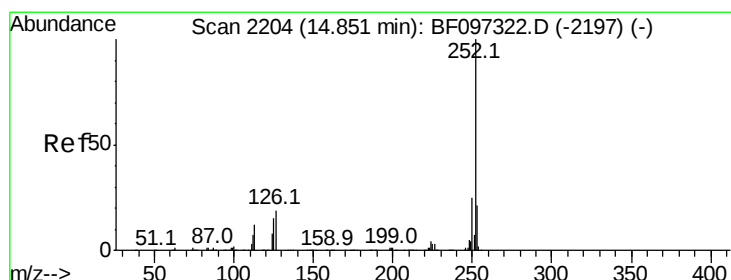
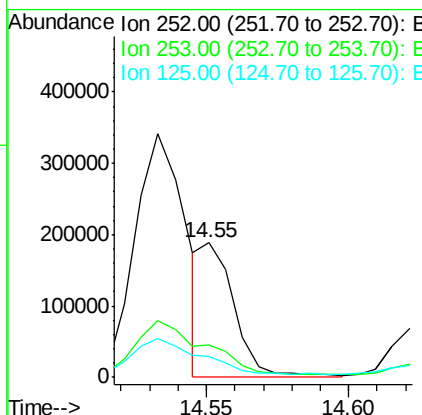
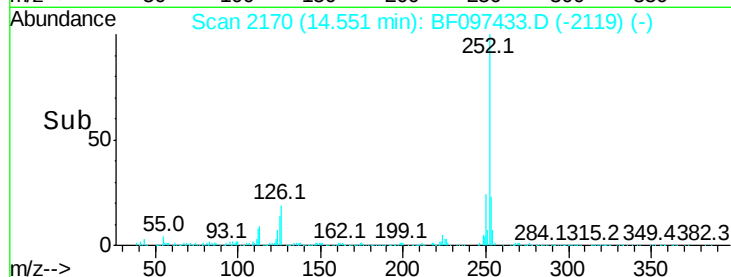
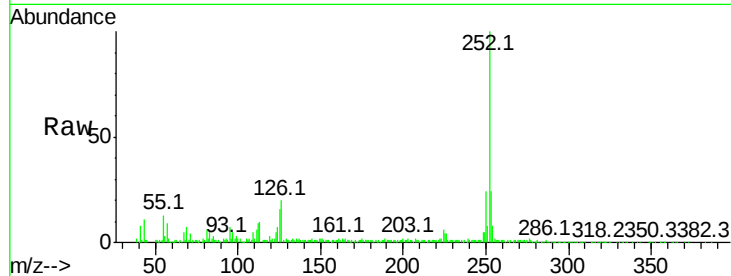
ClientSampleId :

SA-06-080317-A

Tot Ion:	252	Resp:	152411
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.4	27.6
125	15.9	13.1	19.7

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 36.013 ng

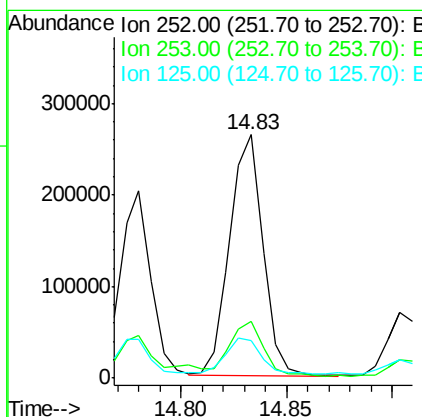
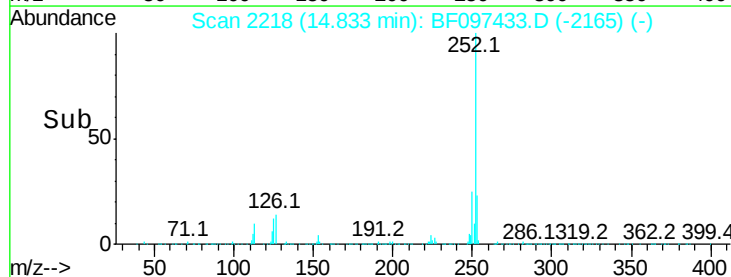
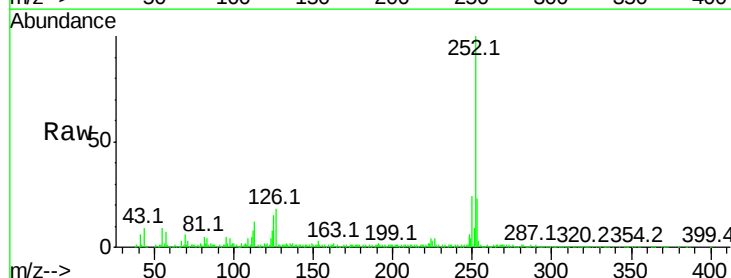
RT: 14.83 min Scan# 2218

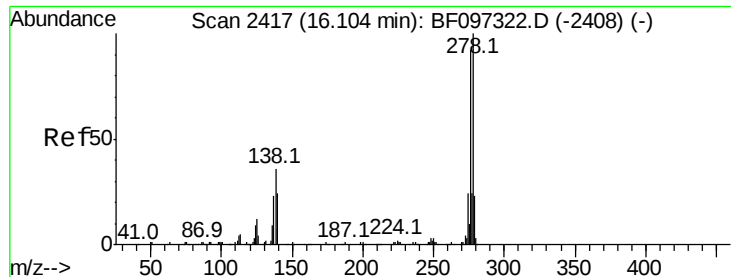
Delta R.T. 0.01 min

Lab File: BF097433.D

Acq: 7 Aug 2017 17:06

Tgt Ion:	252	Resp:	287692
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.5	26.3
125	15.4	11.0	16.4





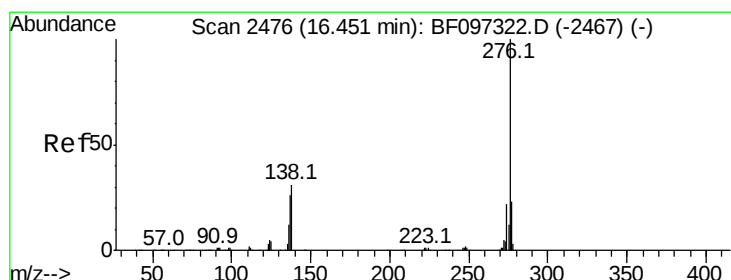
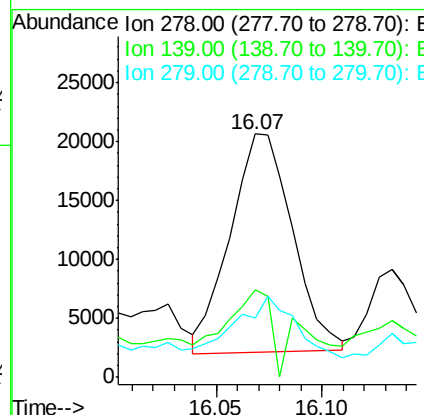
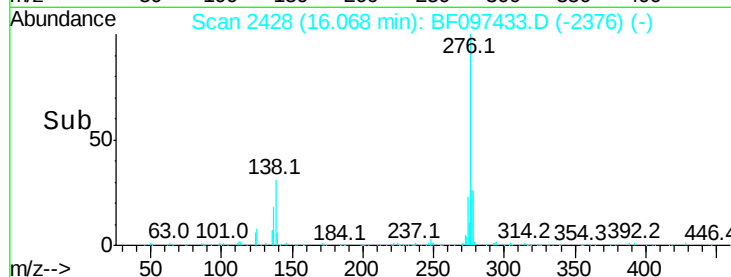
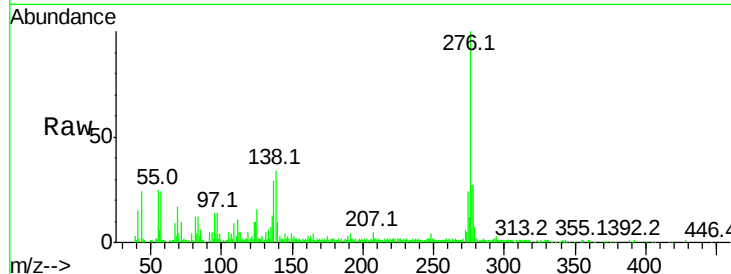
#90
Dibenzo(a,h)anthracene
Concen: 5.803 ng
RT: 16.07 min Scan# 2428
Delta R.T. 0.01 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Instrument :
BNA_F
ClientSampleId :
SA-06-080317-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	35.8	16.6	24.8#
279	24.2	19.3	28.9

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#91
Benzo(g,h,i)perylene
Concen: 21.868 ng
RT: 16.43 min Scan# 2489
Delta R.T. 0.02 min
Lab File: BF097433.D
Acq: 7 Aug 2017 17:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	33.3	25.4	38.0

