

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
 Data File : BF097441.D
 Acq On : 7 Aug 2017 20:51
 Operator : SJ/JU
 Sample : I4623-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-WS

Manual Integrations
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Sohil
 8/9/2017 7:56:01 PM

Quant Time: Aug 08 05:42:23 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	98981	20.00	ng	0.00
21) Naphthalene-d8	7.69	136	383432	20.00	ng	0.00
38) Acenaphthene-d10	9.43	164	167312	20.00	ng	0.00
63) Phenanthrene-d10	10.91	188	214090	20.00	ng	0.00
75) Chrysene-d12	13.53	240	172941	20.00	ng	0.00
86) Perylene-d12	14.87	264	152268	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.00	112	577152	87.90	ng	0.00
7) Phenol-d6	6.08	99	737267	98.36	ng	0.00
23) Nitrobenzene-d5	6.98	82	411291	62.93	ng	-0.01
41) 2,4,6-Tribromophenol	10.23	330	92257	69.79	ng	0.00
44) 2-Fluorobiphenyl	8.77	172	580652	58.90	ng	0.00
78) Terphenyl-d14	12.49	244	376584	44.40	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.09	94	29579	3.327	ng	# 65
49) Dimethylphthalate	9.17	163	117571	9.254	ng	97
51) Acenaphthene	9.47	154	90829	9.553	ng	96
54) Dibenzofuran	9.65	168	34636	2.735	ng	# 97
57) Fluorene	9.98	166	56558	5.942	ng	96
70) Phenanthrene	10.93	178	557538	48.604	ng	99
71) Anthracene	10.99	178	154486	13.149	ng	97
72) Carbazole	11.15	167	55873	4.836	ng	98
74) Fluoranthene	12.12	202	686414	61.082	ng	98
77) Pyrene	12.34	202	635924	44.916	ng	98
80) Benzo(a)anthracene	13.53	228	336878	30.105	ng	100
82) Chrysene	13.56	228	300124	27.467	ng	96
85) Indeno(1,2,3-cd)pyrene	16.06	276	96817	10.333	ng	99
87) Benzo(b)fluoranthene	14.53	252	322348m	35.217	ng	
88) Benzo(k)fluoranthene	14.54	252	128430m	14.725	ng	
89) Benzo(a)pyrene	14.82	252	232554	27.760	ng	97
90) Dibenzo(a,h)anthracene	16.06	278	22953m	3.341	ng	
91) Benzo(g,h,i)perylene	16.42	276	86736	12.040	ng	98

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

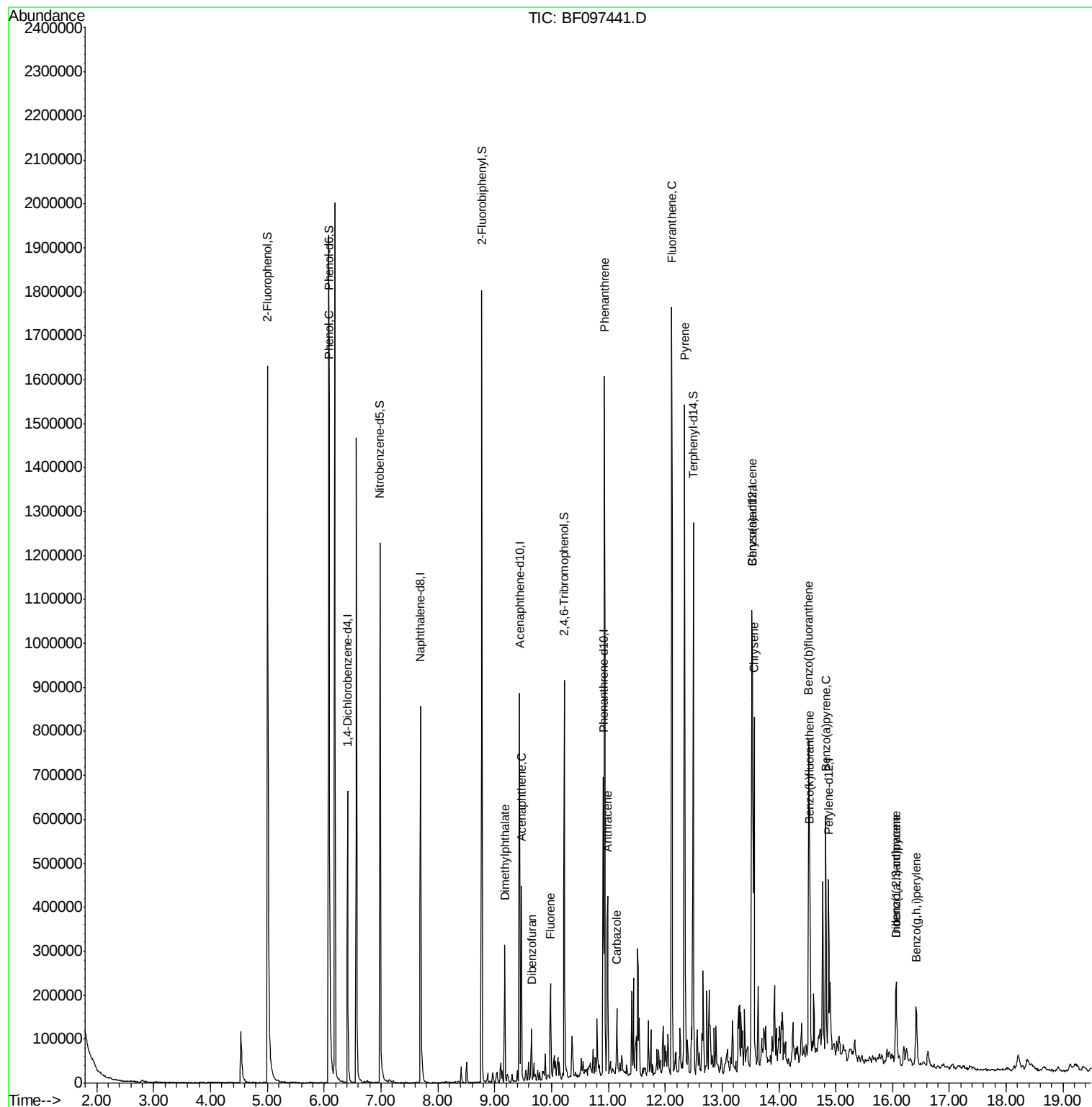
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
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ALS Vial : 17 Sample Multiplier: 1

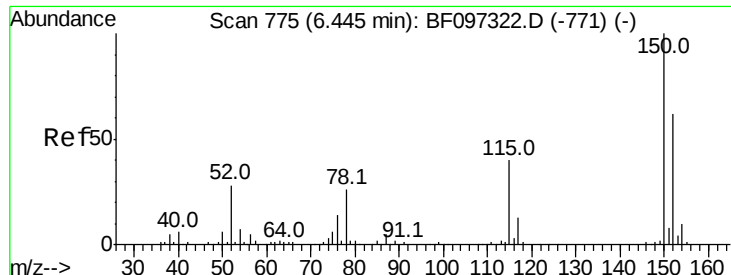
Instrument :
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ClientSampleId :
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#1

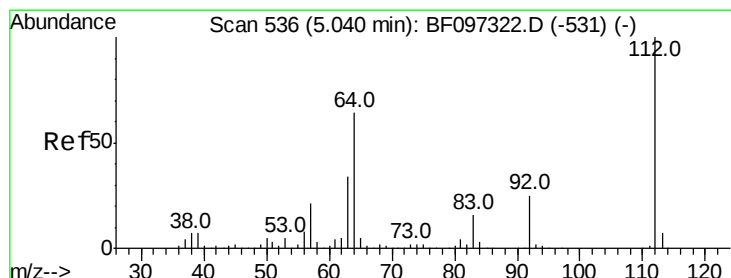
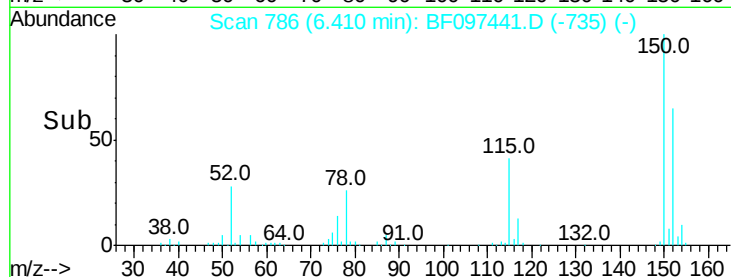
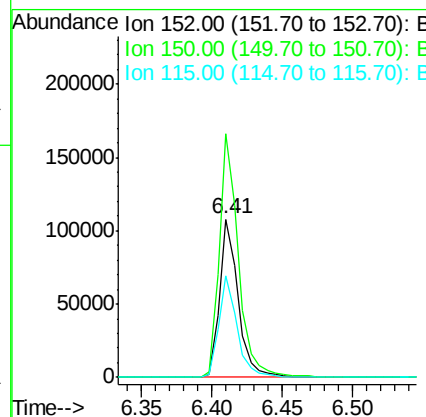
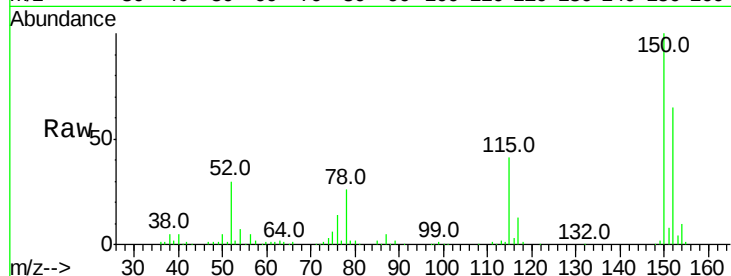
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.41 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampled :
TEC-WS

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	126.2	189.2
115	63.8	52.2	78.2

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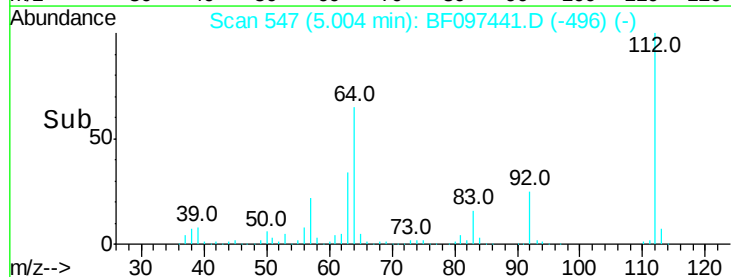
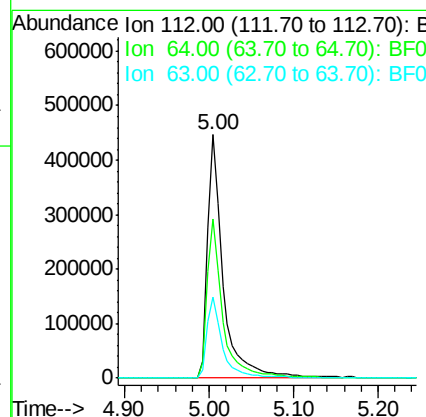
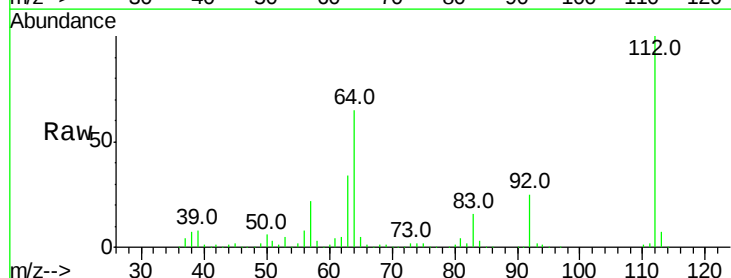
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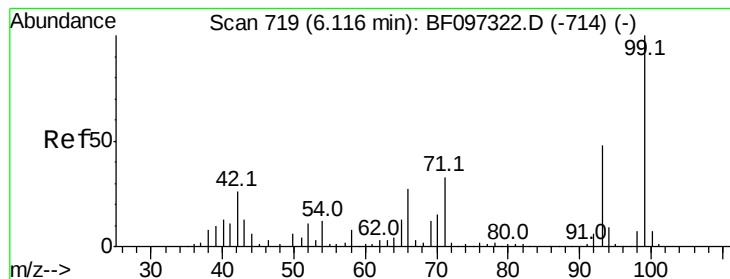


#5

2-Fluorophenol
Concen: 87.901 ng
RT: 5.00 min Scan# 547
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.1	46.0	69.0
63	33.5	23.4	35.0





#7

Phenol-d6

Concen: 98.357 ng

RT: 6.08 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Instrument :

BNA_F

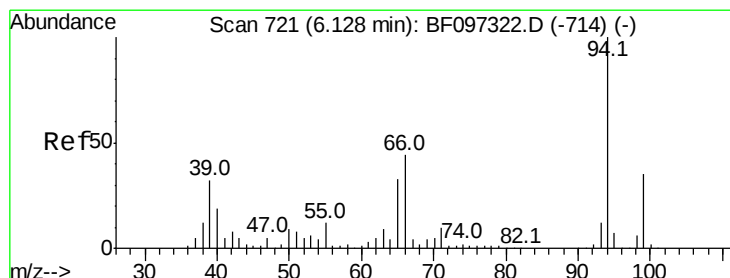
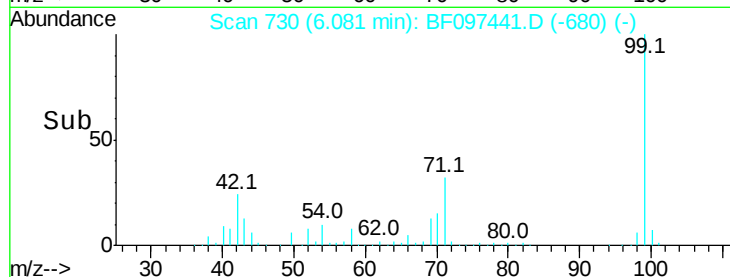
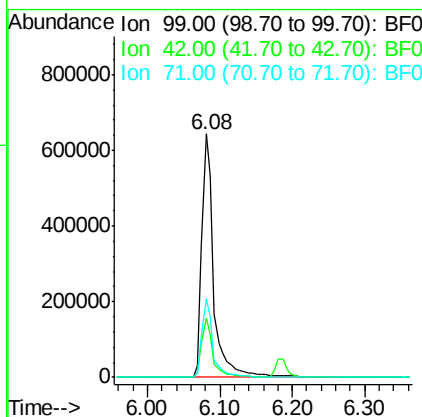
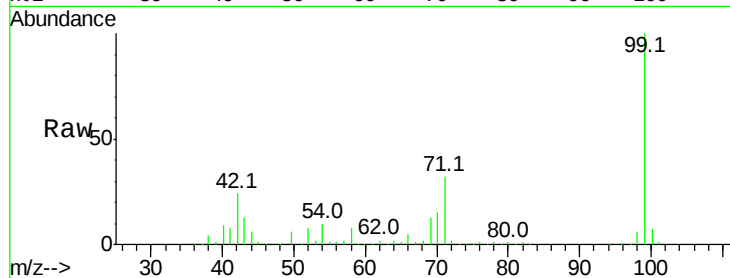
ClientSampled :

TEC-WS

Tot Ion:	99	Resp:	737267
Ion Ratio	Lower	Upper	
99	100		
42	24.5	13.5	20.3#
71	32.0	24.5	36.7

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#10

Phenol

Concen: 3.327 ng

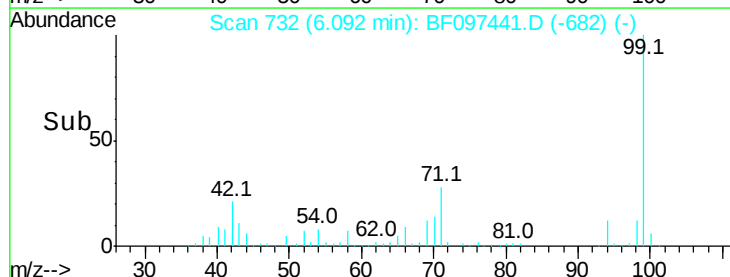
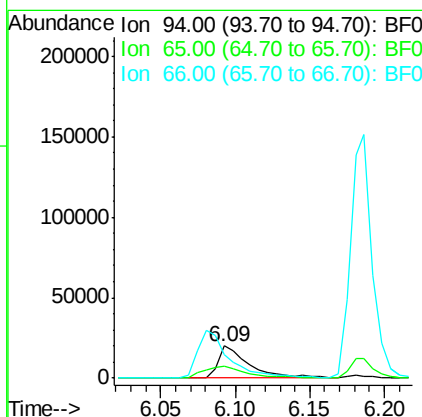
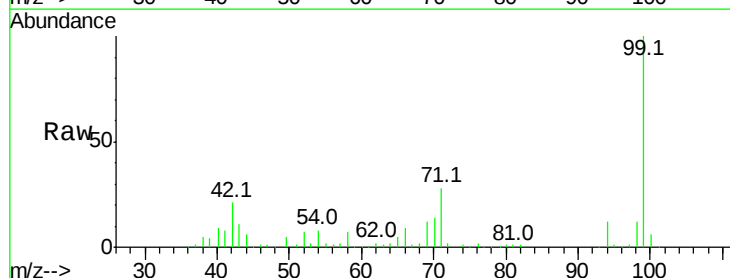
RT: 6.09 min Scan# 732

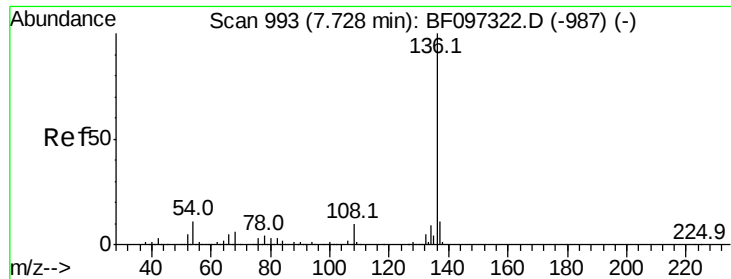
Delta R.T. -0.01 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Tgt Ion:	94	Resp:	29579
Ion Ratio	Lower	Upper	
94	100		
65	39.4	9.9	49.9
66	73.2	23.1	63.1#





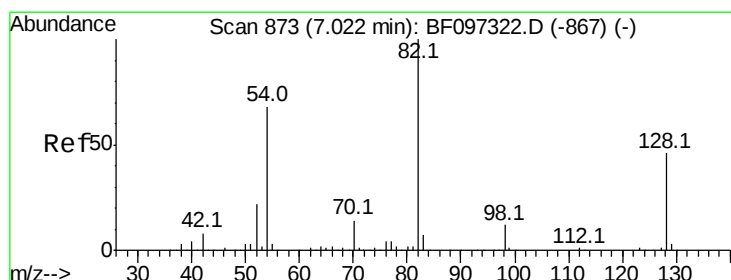
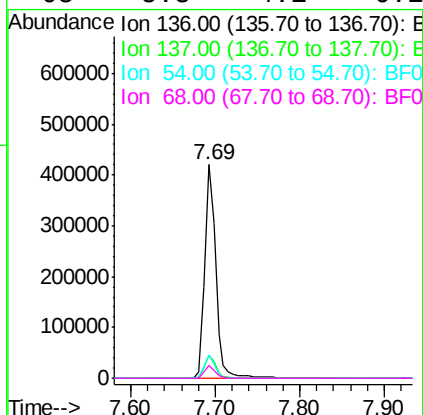
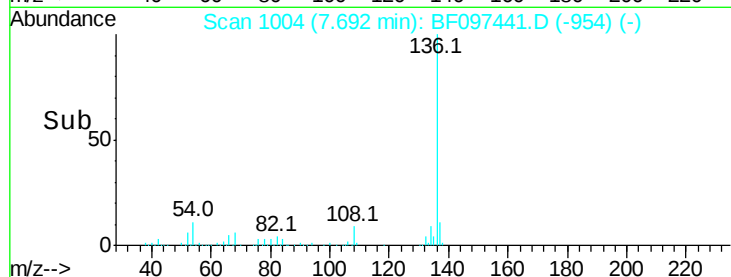
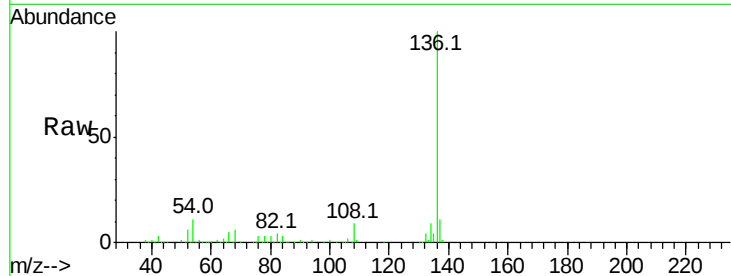
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.69 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampleId :
TEC-WS

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.7	8.5	12.7	
54	10.9	4.9	7.3	
68	5.8	4.1	6.1	

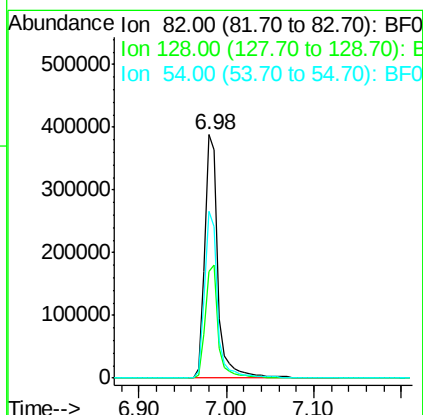
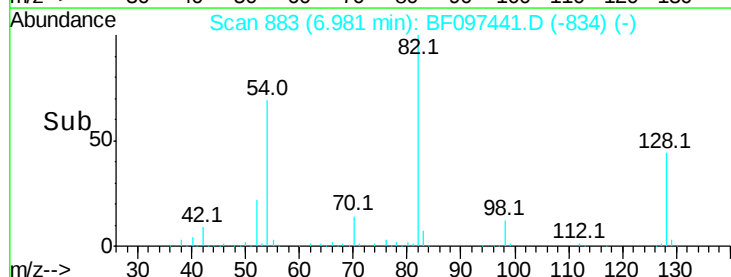
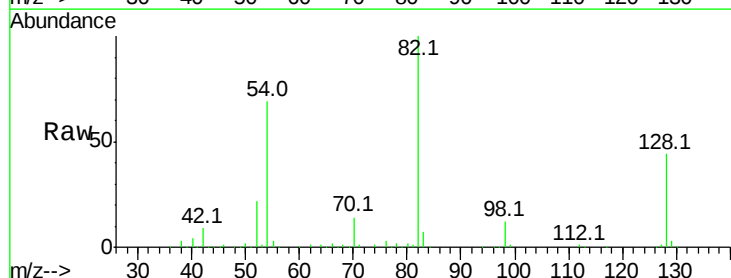
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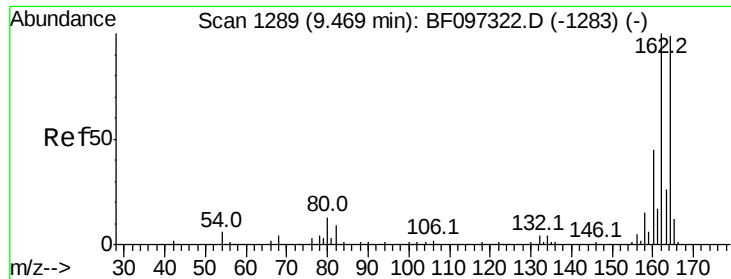
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#23
Nitrobenzene-d5
Concen: 62.926 ng
RT: 6.98 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.6	34.0	51.0	
54	68.6	42.2	63.2	





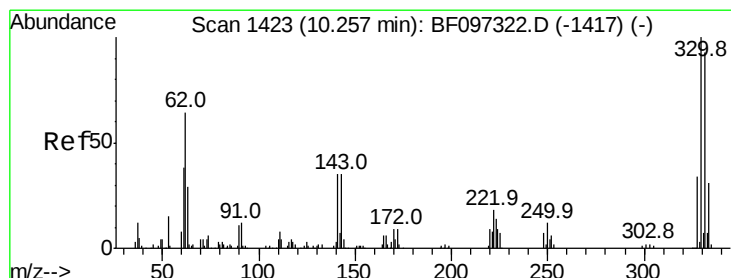
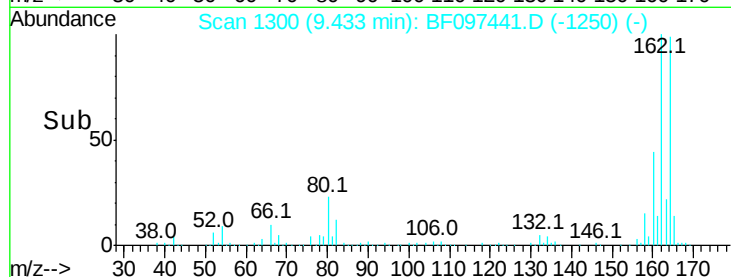
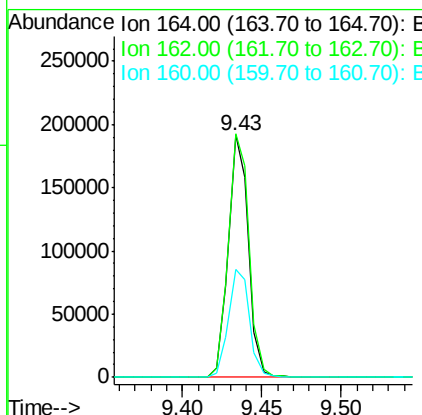
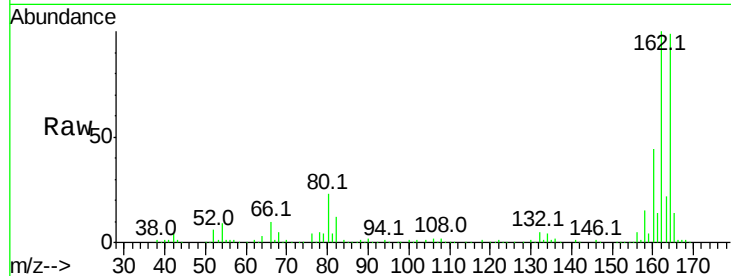
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.43 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampled :
TEC-WS

Tot Ion	Ratio	Resp	Lower	Upper
164	100	167312		
162	100.6	82.6	123.8	
160	44.7	36.2	54.2	

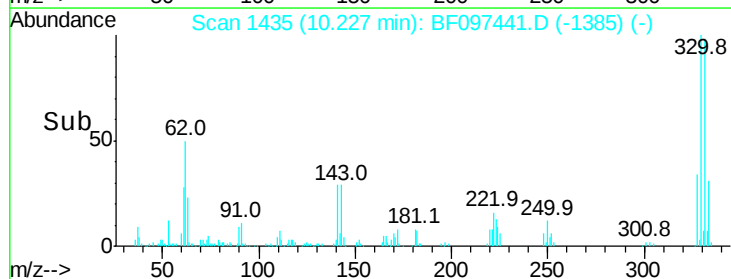
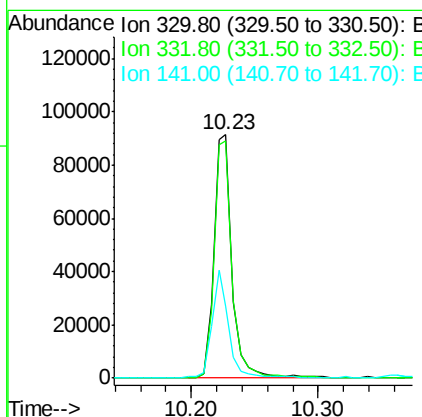
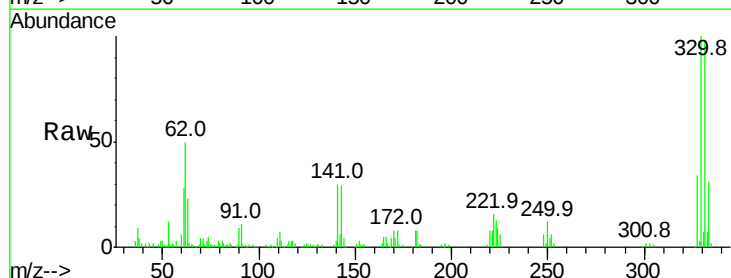
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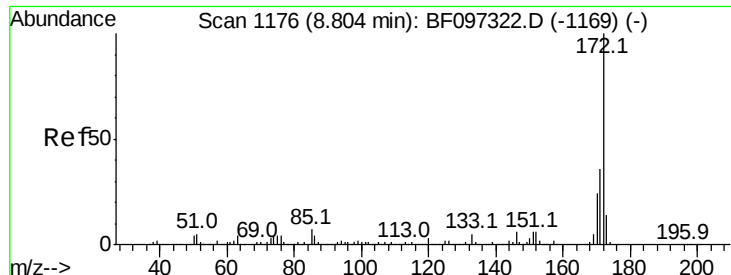
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#41
2,4,6-Tribromophenol
Concen: 69.790 ng
RT: 10.23 min Scan# 1435
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	92257		
332	97.7	76.6	115.0	
141	40.8	31.4	47.2	





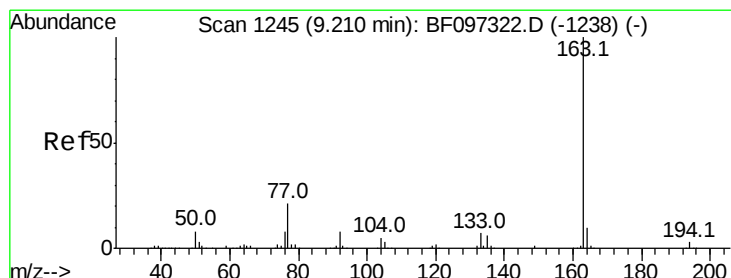
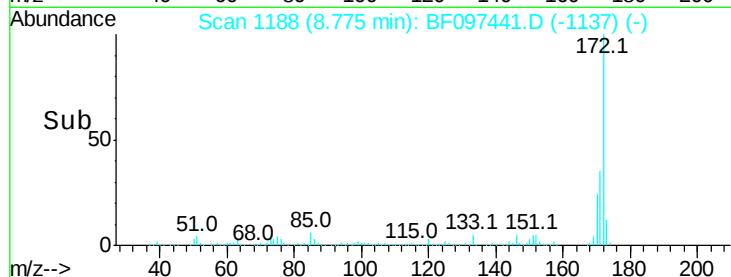
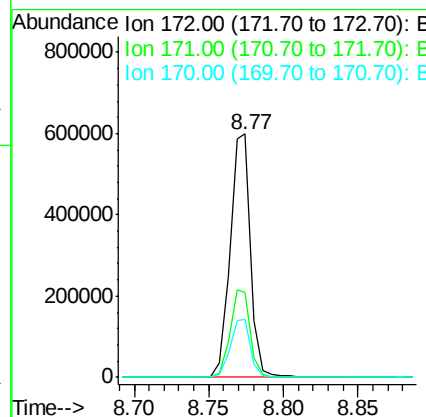
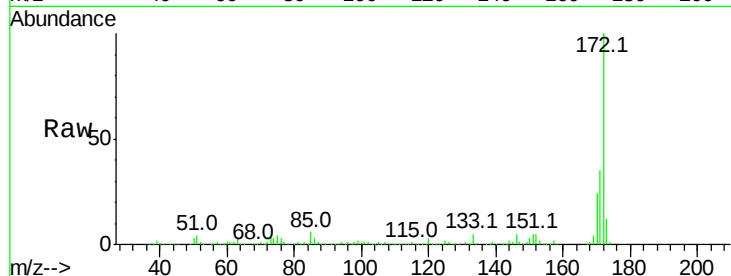
#44
2-Fluorobiphenyl
Concen: 58.897 ng
RT: 8.77 min Scan# 1188
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampleId :
TEC-WS

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	34.9	29.6	44.4
170	23.9	19.8	29.8

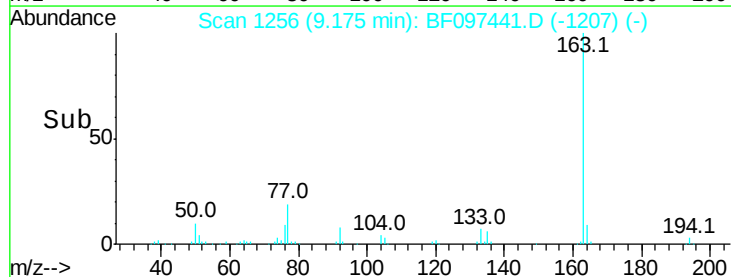
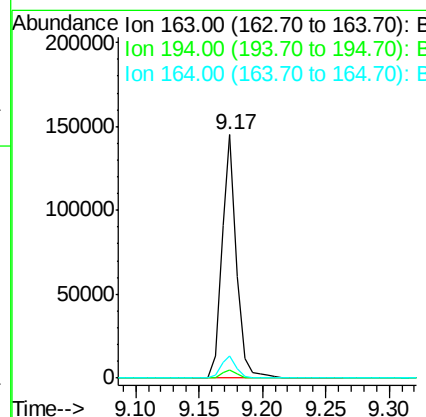
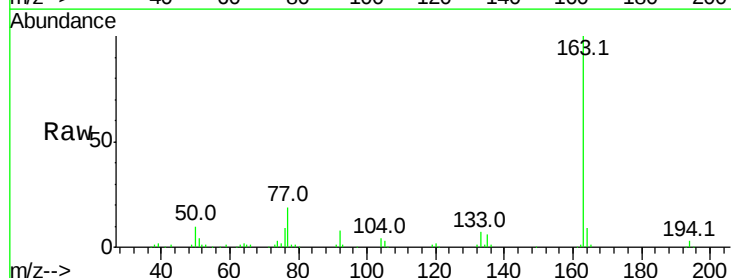
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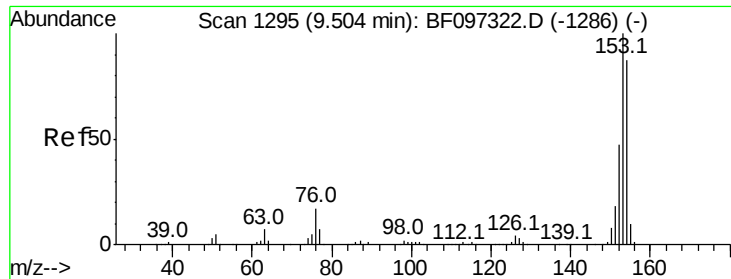
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#49
Dimethylphthalate
Concen: 9.254 ng
RT: 9.17 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.2	8.4	12.6





#51

Acenaphthene

Concen: 9.553 ng

RT: 9.47 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Instrument :

BNA_F

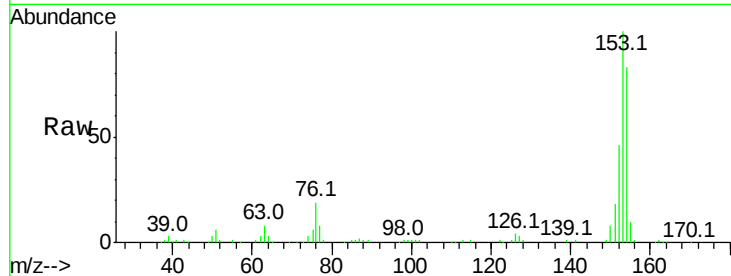
ClientSampleId :

TEC-WS

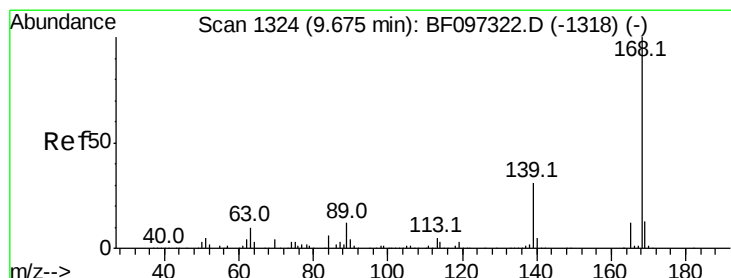
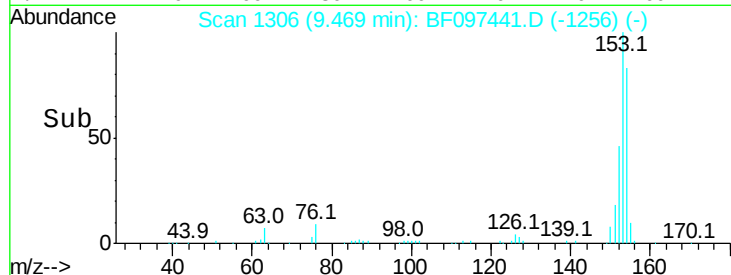
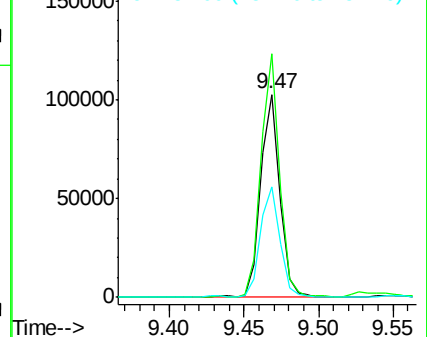
Tot Ion:	154	Resp:	90829
Ion	Ratio	Lower	Upper
154	100		
153	120.0	90.5	135.7
152	54.7	43.6	65.4

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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: 2.735 ng

RT: 9.65 min Scan# 1336

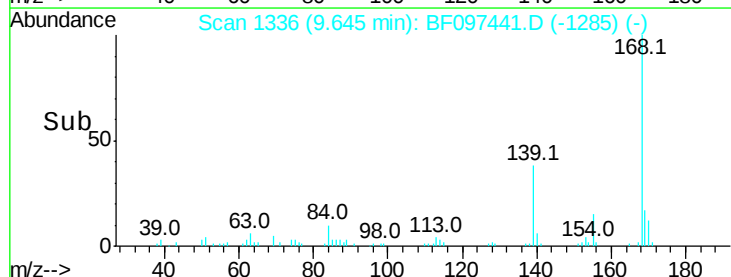
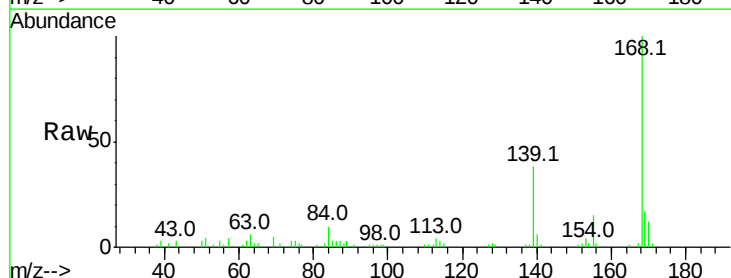
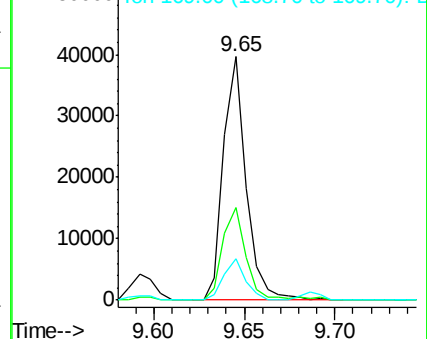
Delta R.T. 0.00 min

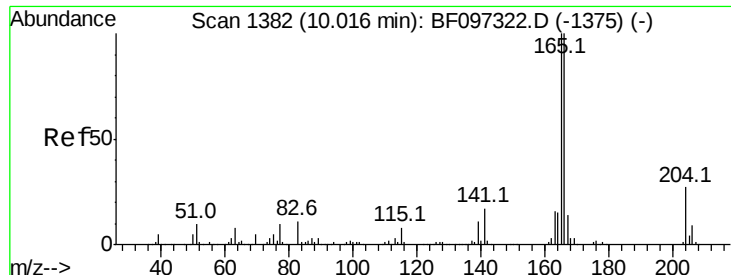
Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Tgt Ion:	168	Resp:	34636
Ion	Ratio	Lower	Upper
168	100		
139	38.0	30.6	45.8
169	17.2	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





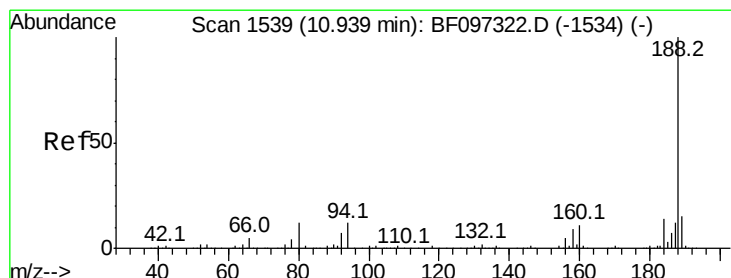
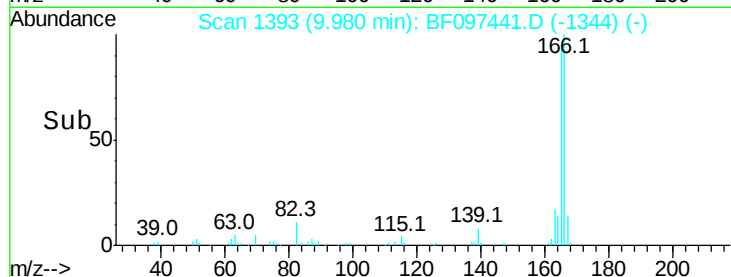
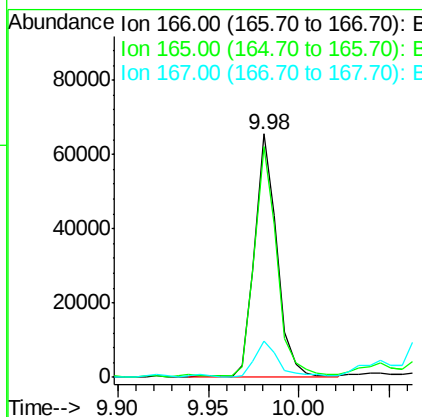
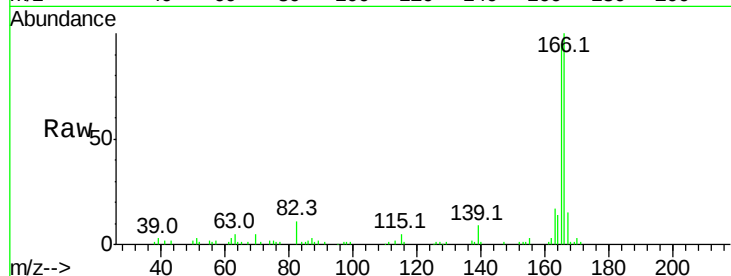
#57
Fluorene
 Concen: 5.942 ng
 RT: 9.98 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Instrument :
 BNA_F
 ClientSampleId :
 TEC-WS

Tot Ion	Ratio	Resp	Lower	Upper
166	100	56558		
165	94.7	78.8	118.2	
167	15.1	10.6	16.0	

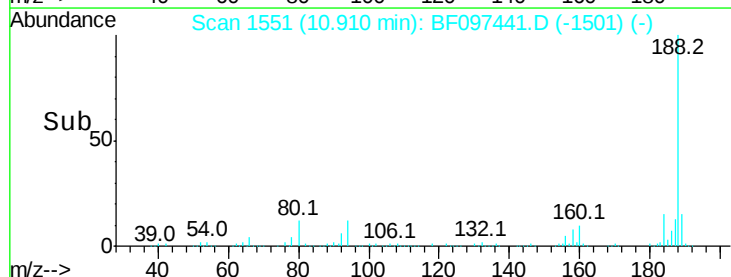
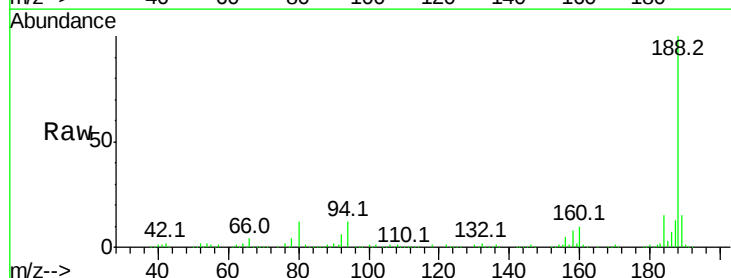
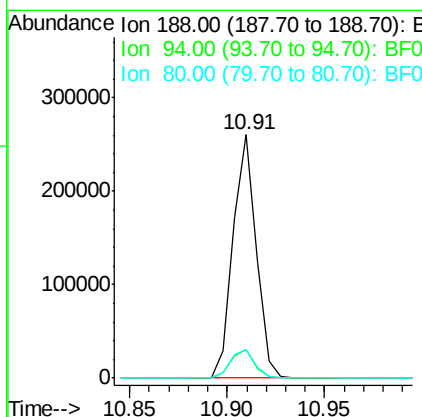
Manual Integrations
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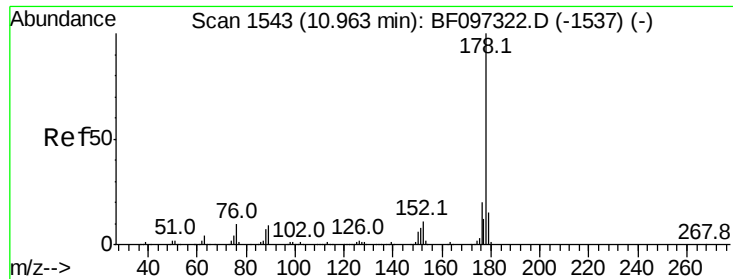
Sohil
 8/9/2017 7:56:01 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.91 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	214090		
94	11.6	9.4	14.2	
80	11.5	10.2	15.2	





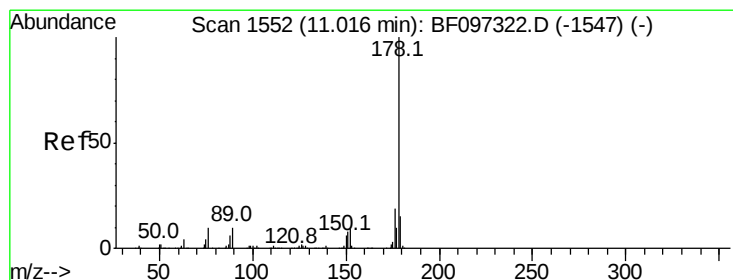
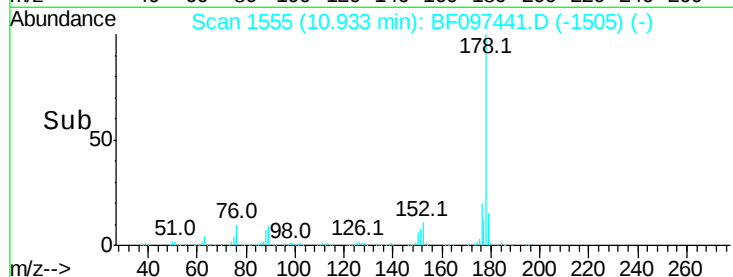
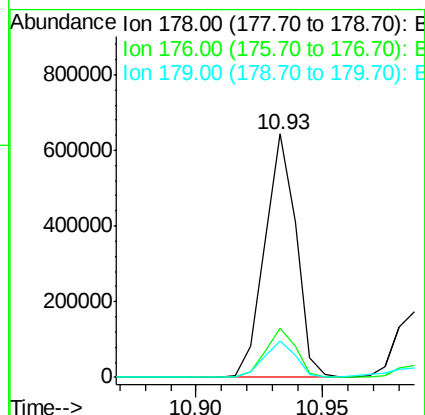
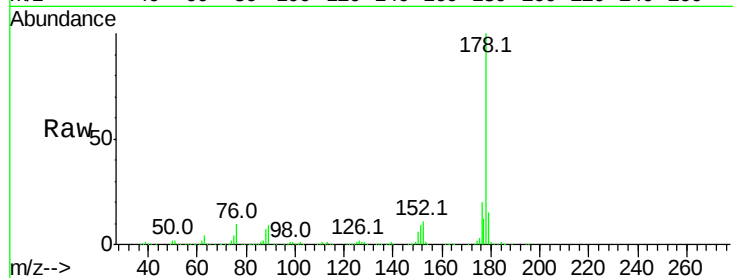
#70
Phenanthrene
Concen: 48.604 ng
RT: 10.93 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampleId :
TEC-WS

Tot Ion	Ratio	Resp	Lower	Upper
178	100	557538		
176	20.2		16.2	24.4
179	15.2		12.6	19.0

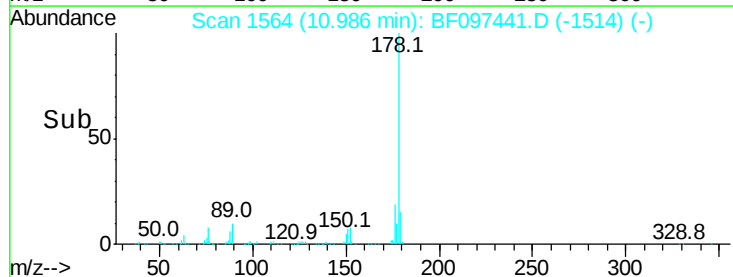
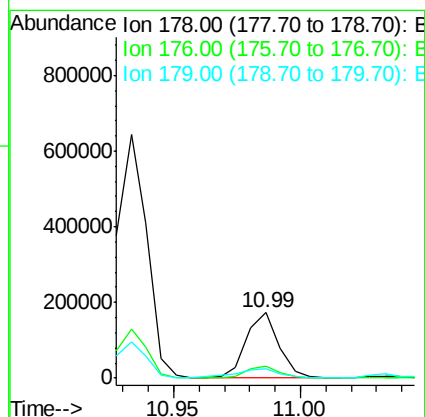
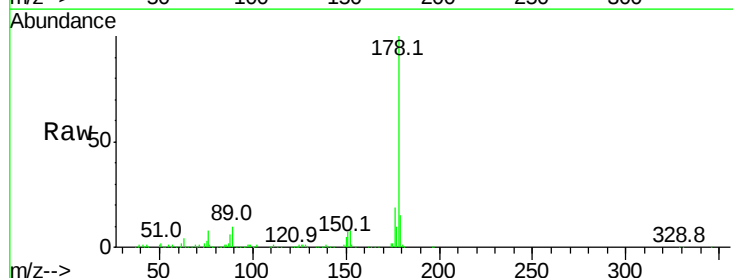
Manual Integrations
APPROVED

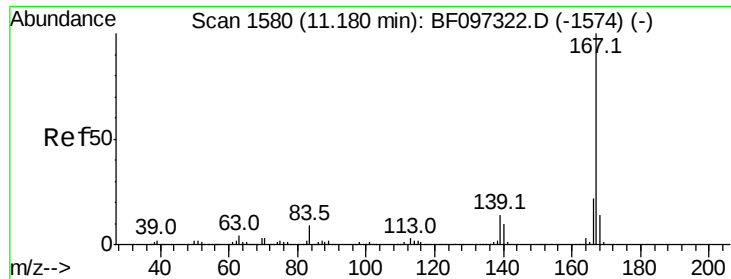
Sohil
8/9/2017 7:56:01 PM



#71
Anthracene
Concen: 13.149 ng
RT: 10.99 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	154486		
176	18.7		15.8	23.8
179	14.6		12.7	19.1





#72

Carbazole

Concen: 4.836 ng

RT: 11.15 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Instrument :

BNA_F

ClientSampleId :

TEC-WS

Tot Ion:167 Resp: 55873

Ion Ratio Lower Upper

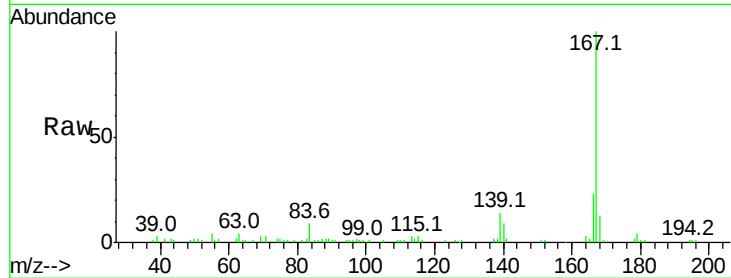
167 100

166 23.2 18.1 27.1

139 13.8 11.7 17.5

Manual Integrations
APPROVED

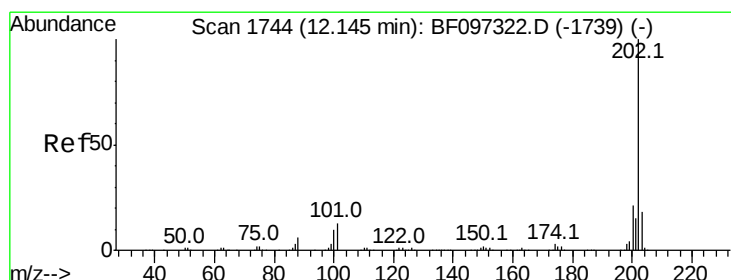
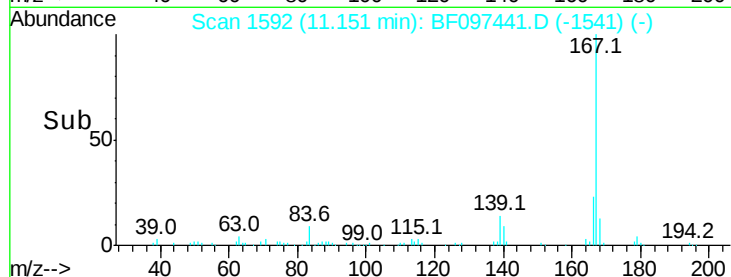
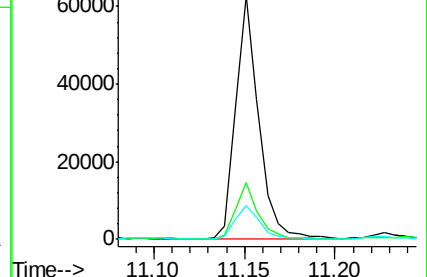
Sohil
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 61.082 ng

RT: 12.12 min Scan# 1756

Delta R.T. 0.00 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

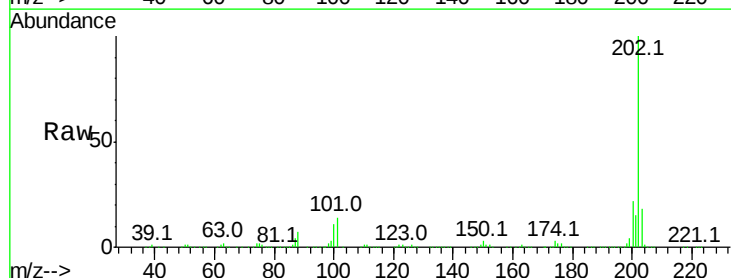
Tgt Ion:202 Resp: 686414

Ion Ratio Lower Upper

202 100

101 14.4 0.0 33.2

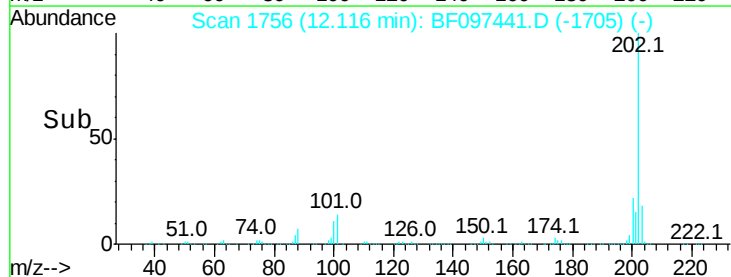
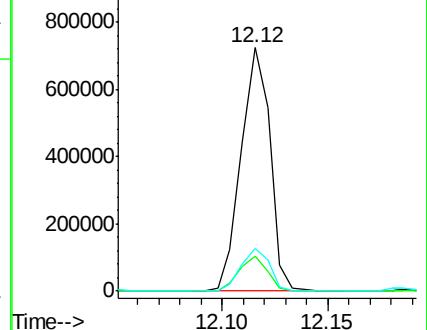
203 17.7 0.0 38.1

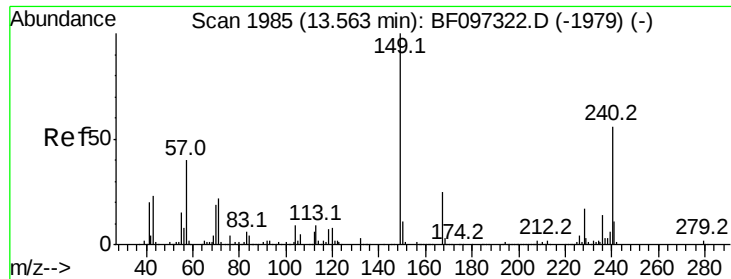


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





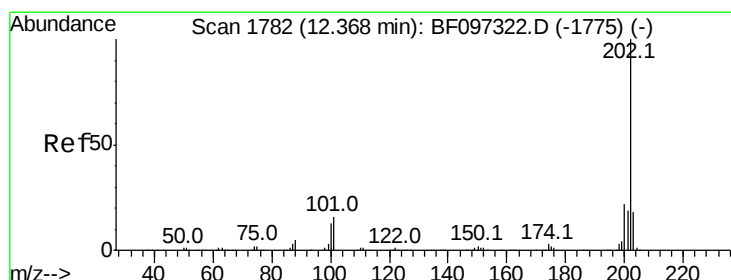
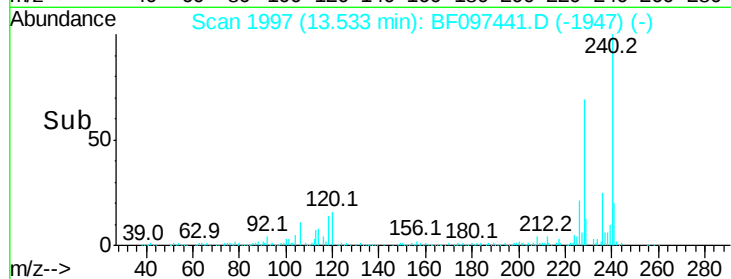
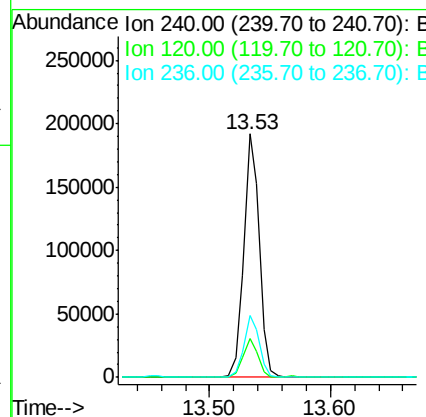
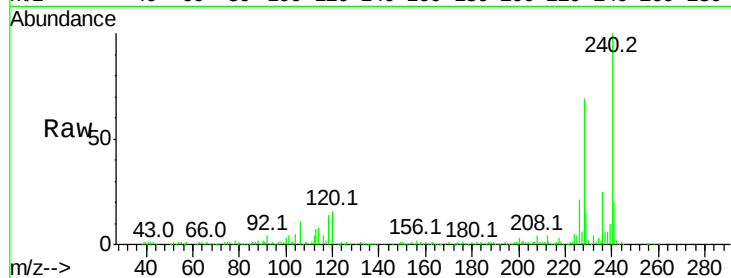
#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.53 min Scan# 1997
 Delta R.T. -0.01 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Instrument :
 BNA_F
 ClientSampled :
 TEC-WS

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.8	5.8	8.8#
236	25.3	20.5	30.7

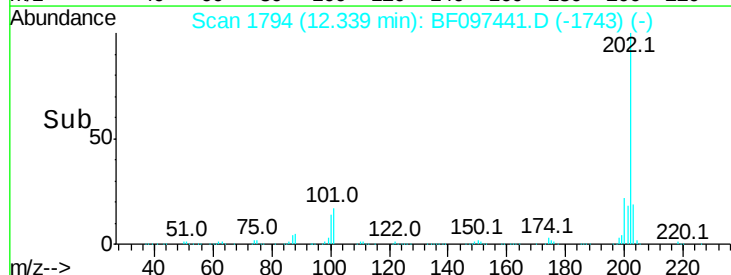
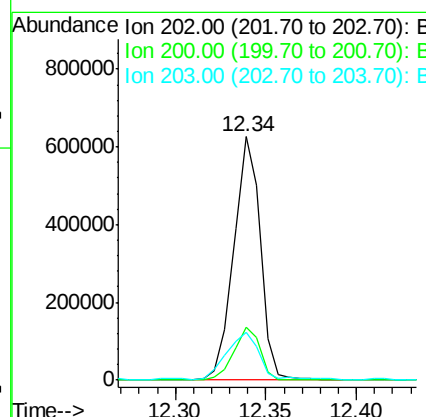
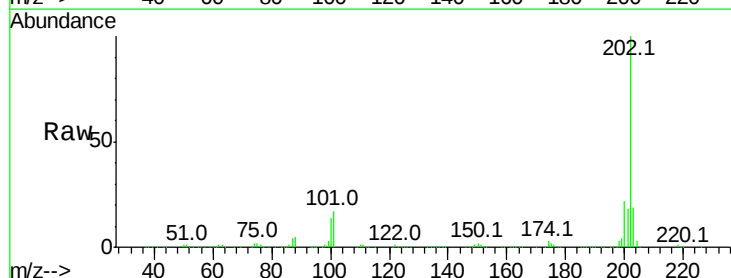
Manual Integrations
 APPROVED

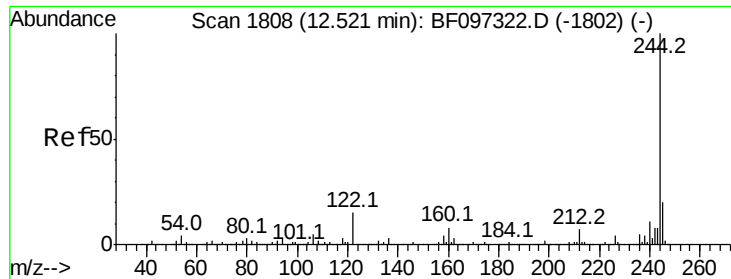
Sohil
 8/9/2017 7:56:01 PM



#77
 Pyrene
 Concen: 44.916 ng
 RT: 12.34 min Scan# 1794
 Delta R.T. 0.00 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	19.5	14.4	21.6





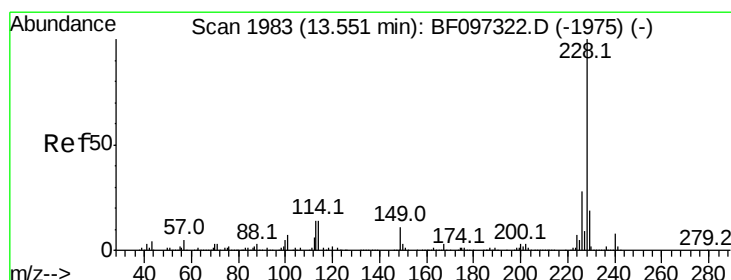
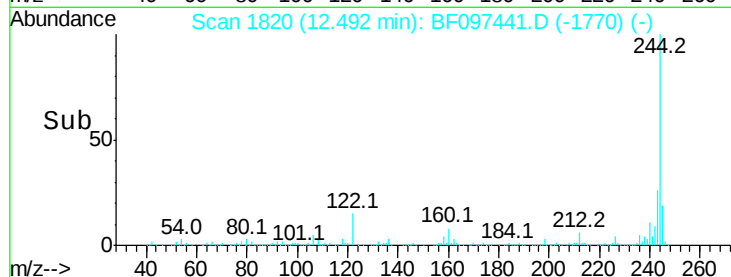
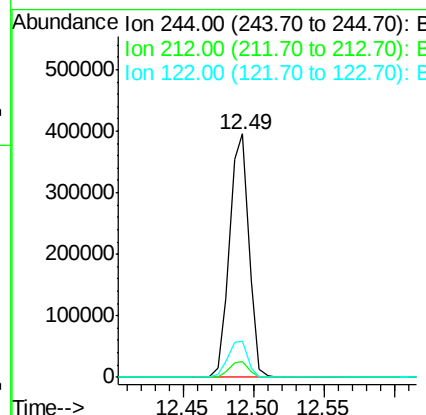
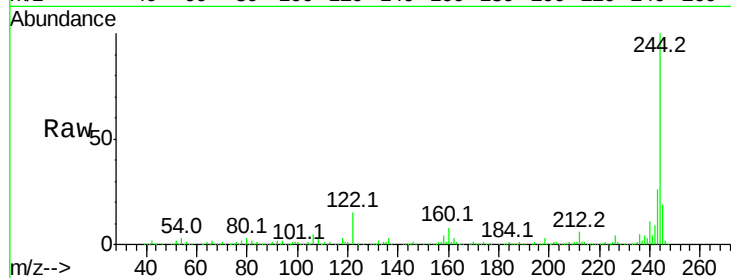
#78
 Terphenyl-d14
 Concen: 44.397 ng
 RT: 12.49 min Scan# 1820
 Delta R.T. -0.01 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Instrument :
 BNA_F
 ClientSampled :
 TEC-WS

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.0	9.0
122	14.7	10.3	15.5

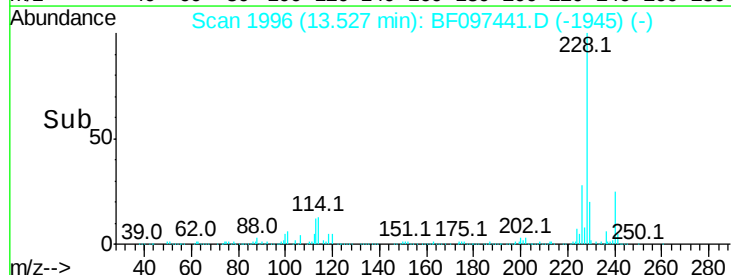
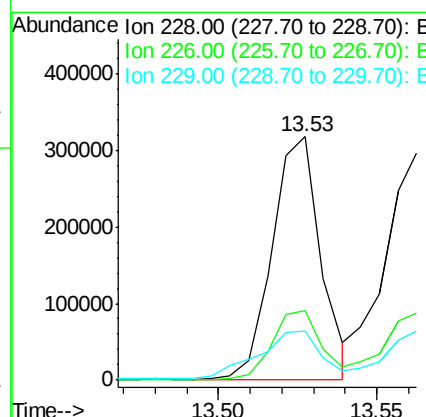
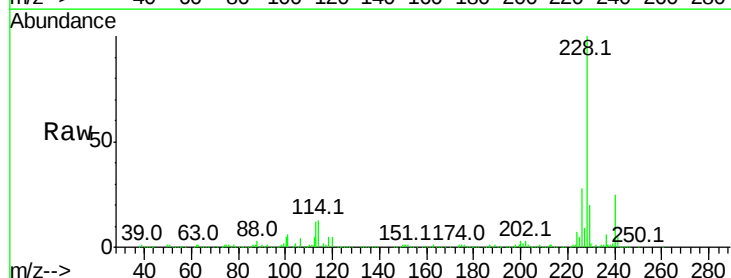
Manual Integrations
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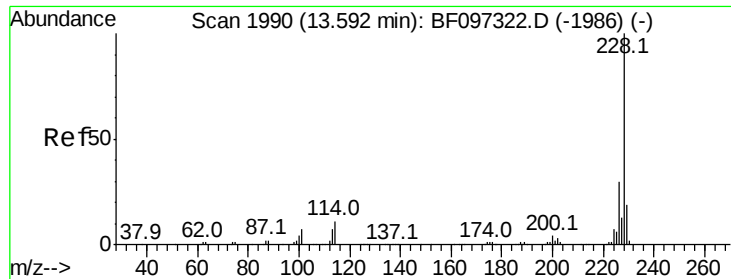
Sohil
 8/9/2017 7:56:01 PM



#80
 Benzo(a)anthracene
 Concen: 30.105 ng
 RT: 13.53 min Scan# 1996
 Delta R.T. 0.00 min
 Lab File: BF097441.D
 Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.2	16.3	24.5





#82

Chrysene

Concen: 27.467 ng

RT: 13.56 min Scan# 2002

Delta R.T. 0.00 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Instrument :

BNA_F

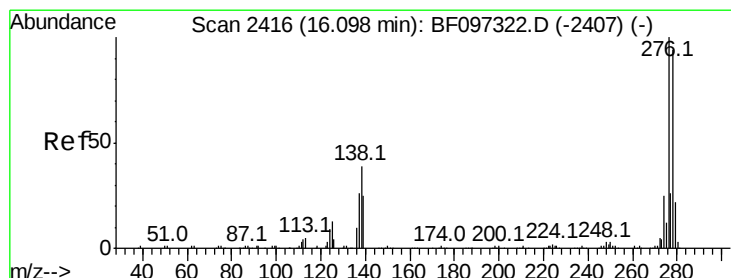
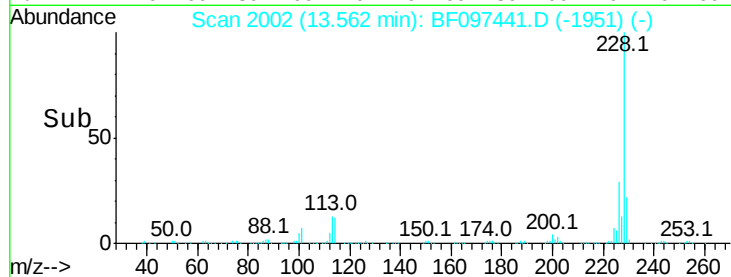
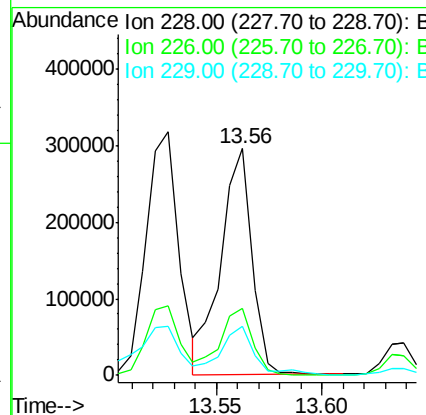
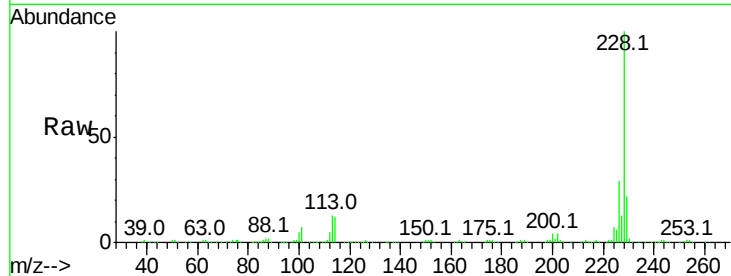
ClientSampleId :

TEC-WS

Tot Ion:	228	Resp:	300124
Ion Ratio		Lower	Upper
228	100		
226	29.3	24.9	37.3
229	21.9	15.8	23.6

Manual Integrations
APPROVED

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8/9/2017 7:56:01 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.333 ng

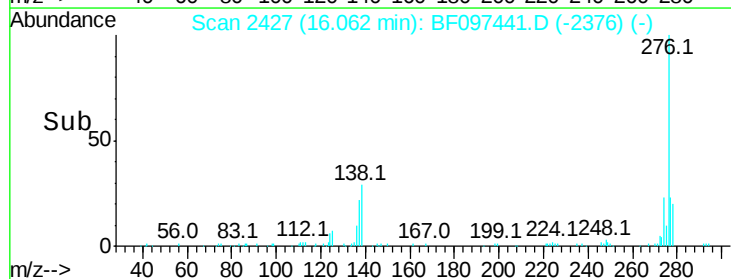
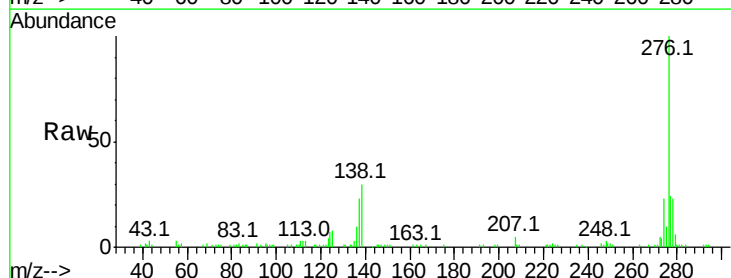
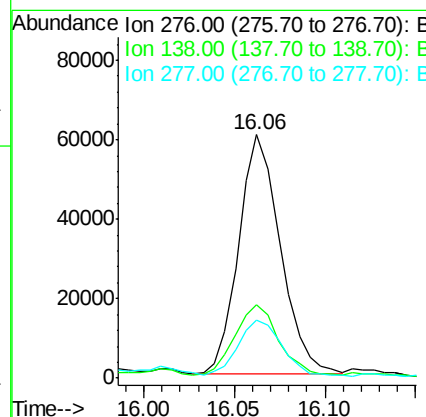
RT: 16.06 min Scan# 2427

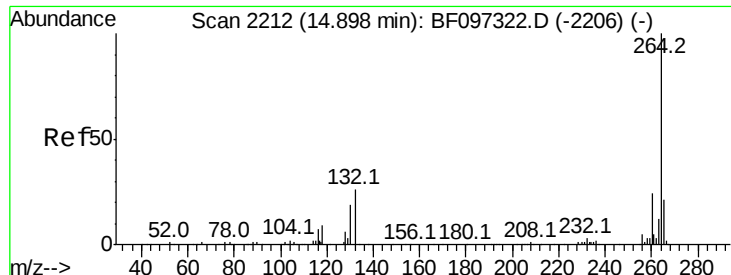
Delta R.T. 0.00 min

Lab File: BF097441.D

Acq: 7 Aug 2017 20:51

Tgt Ion:	276	Resp:	96817
Ion Ratio		Lower	Upper
276	100		
138	34.4	27.8	41.6
277	24.7	20.2	30.4





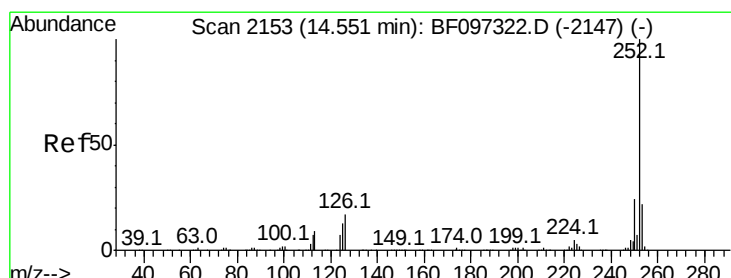
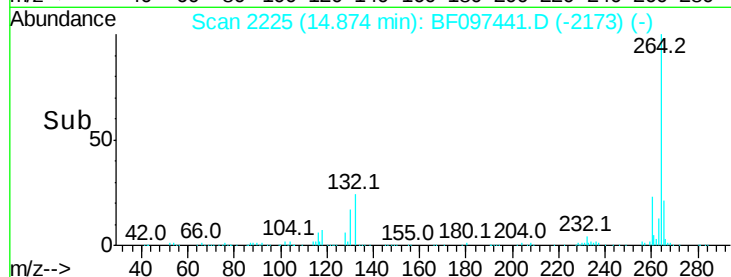
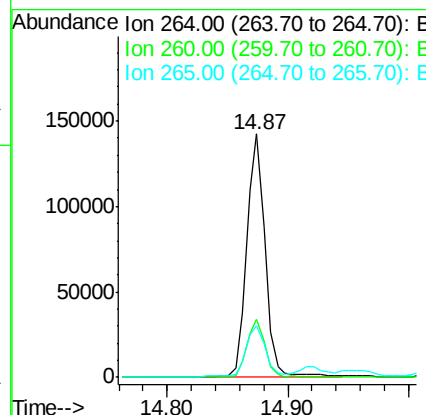
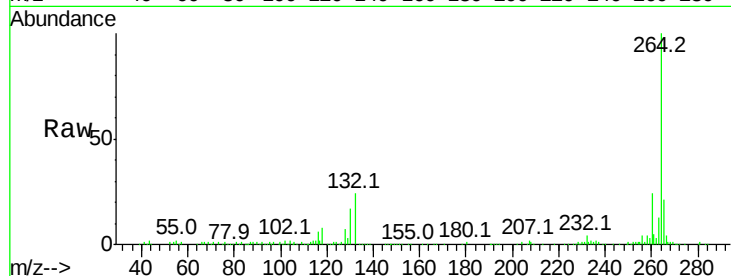
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.87 min Scan# 2225
Delta R.T. 0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampleId :
TEC-WS

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.0	17.2	25.8

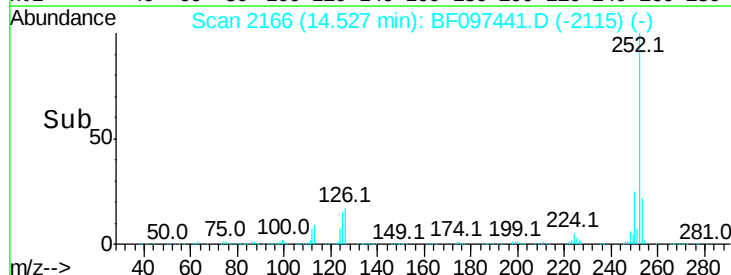
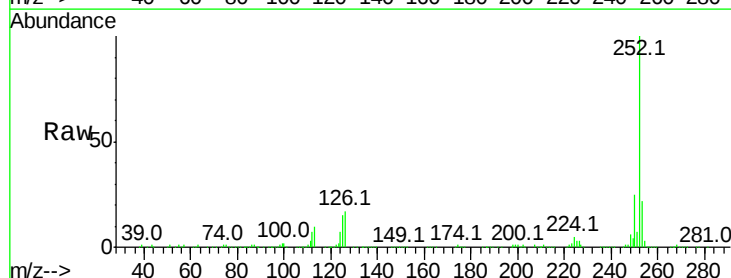
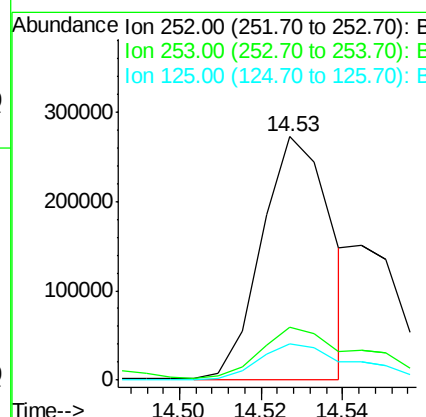
Manual Integrations
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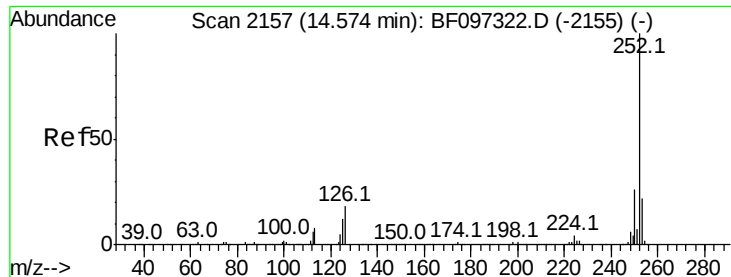
Sohil
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#87
Benzo(b)fluoranthene
Concen: 35.217 ng m
RT: 14.53 min Scan# 2166
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1
125	14.6	9.8	14.8





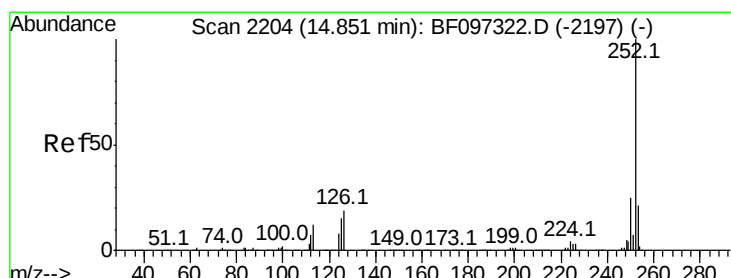
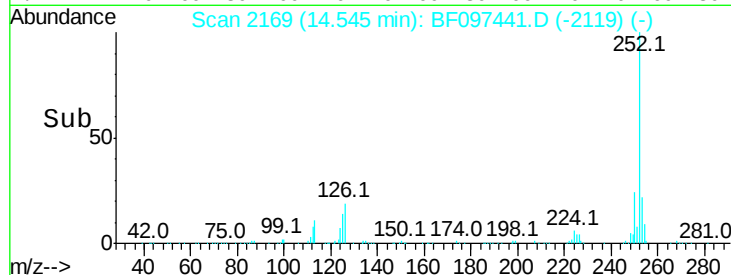
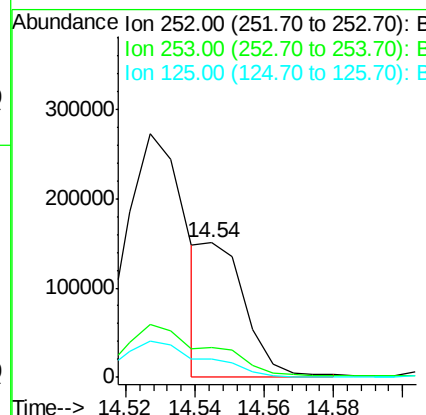
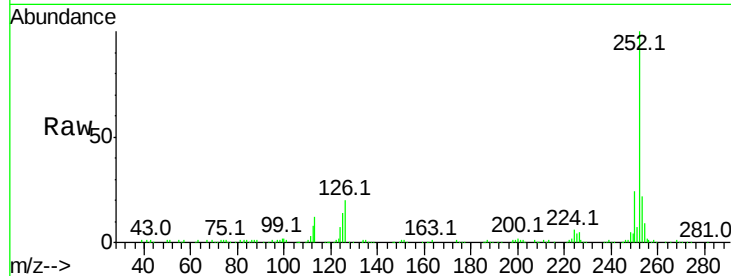
#88
Benzo(k)fluoranthene
Concen: 14.725 ng m
RT: 14.54 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampled :
TEC-WS

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.4	27.6
125	13.8	13.1	19.7

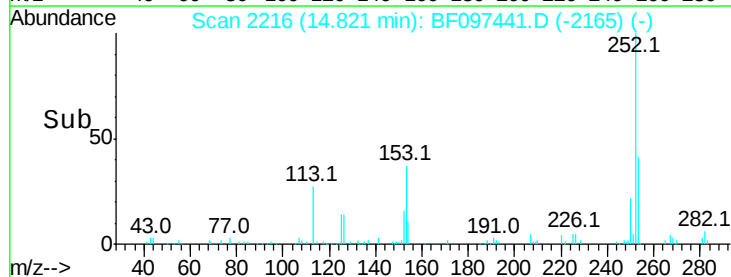
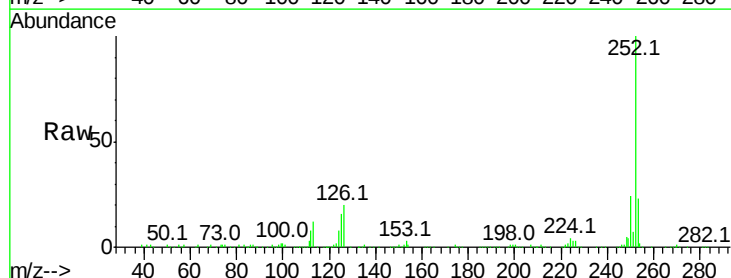
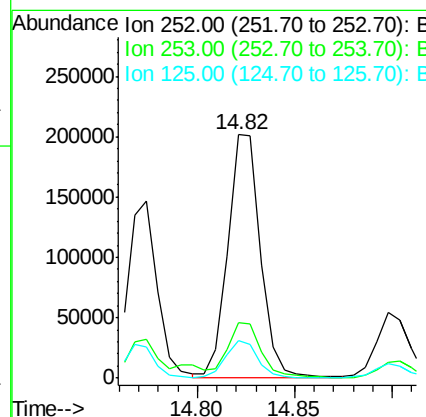
Manual Integrations
APPROVED

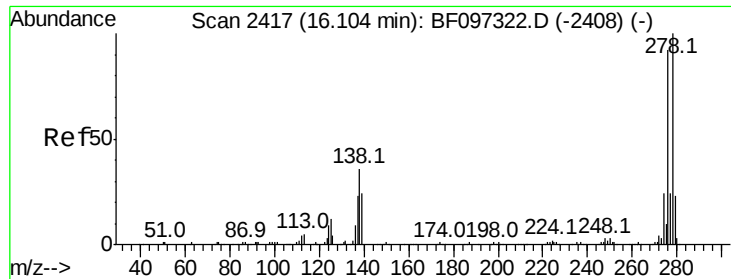
Sohil
8/9/2017 7:56:01 PM



#89
Benzo(a)pyrene
Concen: 27.760 ng
RT: 14.82 min Scan# 2216
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	15.6	11.0	16.4





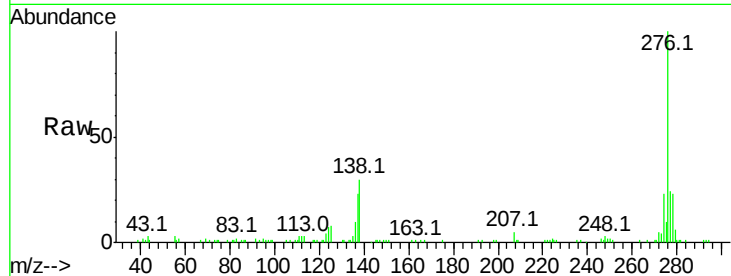
#90
Dibenzo(a,h)anthracene
Concen: 3.341 ng m
RT: 16.06 min Scan# 2427
Delta R.T. 0.00 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Instrument :
BNA_F
ClientSampleId :
TEC-WS

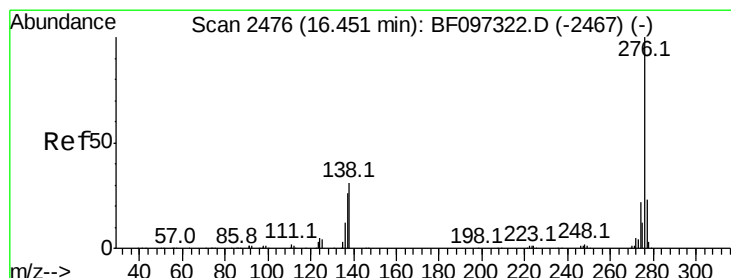
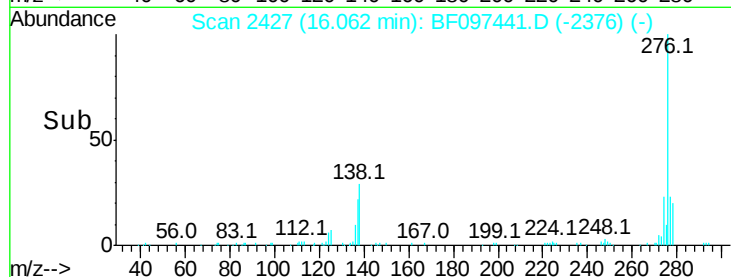
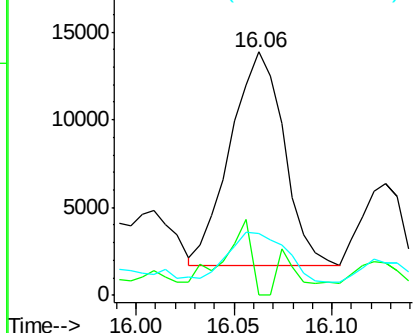
Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	25.3	19.3	28.9

Manual Integrations
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8/9/2017 7:56:01 PM

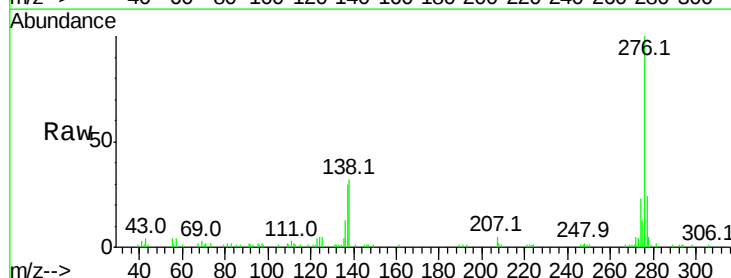


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 12.040 ng
RT: 16.42 min Scan# 2487
Delta R.T. 0.01 min
Lab File: BF097441.D
Acq: 7 Aug 2017 20:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	32.4	25.4	38.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

