

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE092216\
 Data File : BE092401.D
 Acq On : 22 Sep 2016 18:28
 Operator : UM/SJ
 Sample : H4803-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP

Manual Integrations
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Quant Time: Sep 23 11:13:37 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	11299	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	51480	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	30801	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	72312	5.00	ng	0.02
24) Chrysene-d12	21.75	240	79294	5.00	ng	0.00
31) Perylene-d12	24.12	264	90117	5.00	ng	0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.66	112	327104	121.08	ng	-0.02
5) Phenol-d6	7.33	99	483761	125.89	ng	-0.02
8) Nitrobenzene-d5	9.34	82	291163	76.53	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	137198	123.29	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	595821	81.70	ng	-0.01
26) Terphenyl-d14	20.19	244	839719	85.37	ng	0.02
Target Compounds						
6) bis(2-Chloroethyl)ether	7.59	93	441364	144.96	ng	Qvalue 93
9) Naphthalene	10.99	128	182612	16.39	ng	# 95
10) Hexachlorobutadiene	11.28	225	111784	63.73	ng	100
11) 2-Methylnaphthalene	12.62	142	427563	57.97	ng	92
15) Acenaphthylene	14.53	152	6017836	134.92	ng	99
16) Acenaphthene	14.88	154	413975	59.26	ng	96
17) Fluorene	15.88	166	1063074	120.03	ng	99
19) Hexachlorobenzene	16.89	284	197074	63.67	ng	94
22) Anthracene	17.69	178	770558	48.22	ng	98
23) Fluoranthene	19.63	202	9288201	117.62	ng	98
27) Benzo(a)anthracene	21.72	228	2960645m	38.31	ng	
28) Chrysene	21.79	228	6000327m	84.79	ng	
29) Bis(2-ethylhexyl)phthalate	21.66	149	451832	67.91	ng	# 71
30) Indeno(1,2,3-cd)pyrene	26.65	276	4731361	63.02	ng	95
32) Benzo(b)fluoranthene	23.39	252	1212378	55.56	ng	97
34) Benzo(a)pyrene	24.03	252	2067620	96.67	ng	97
36) Benzo(g,h,i)perylene	27.45	276	7819163	92.84	ng	98

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

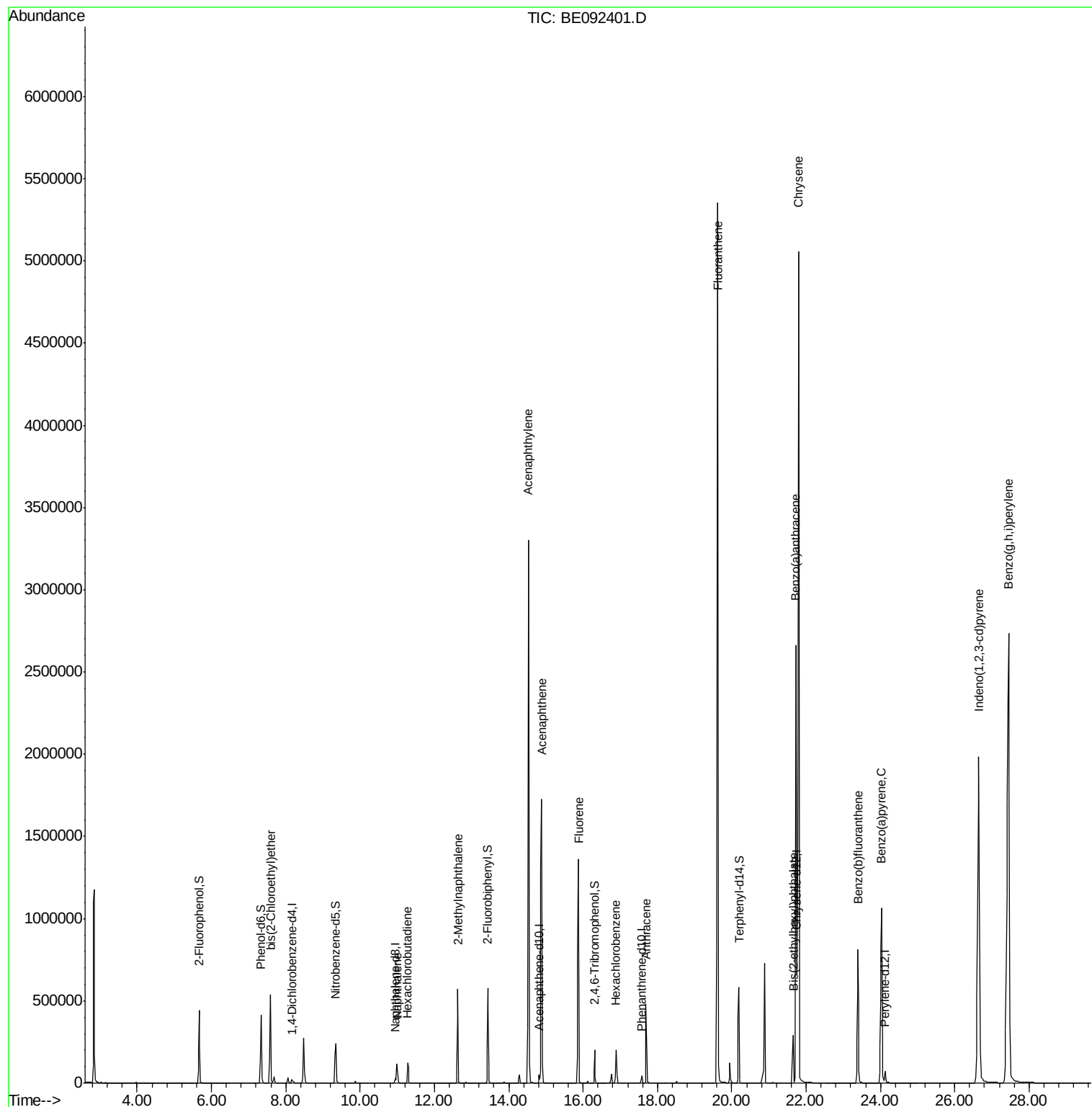
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE092216\
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ALS Vial : 11 Sample Multiplier: 1

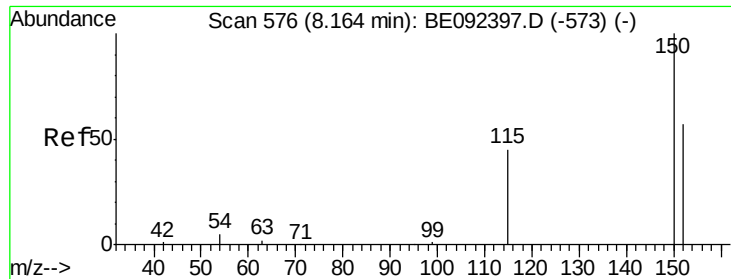
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092401.D

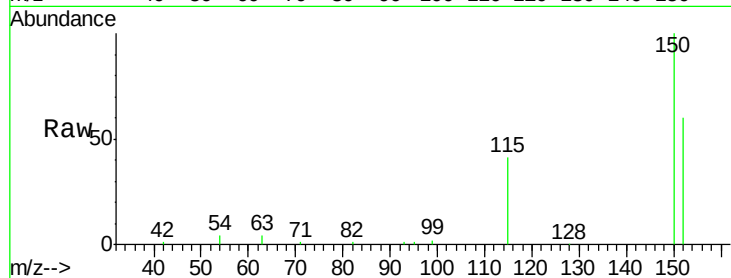
Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP



Tgt Ion:152 Resp: 11299

Ion Ratio Lower Upper

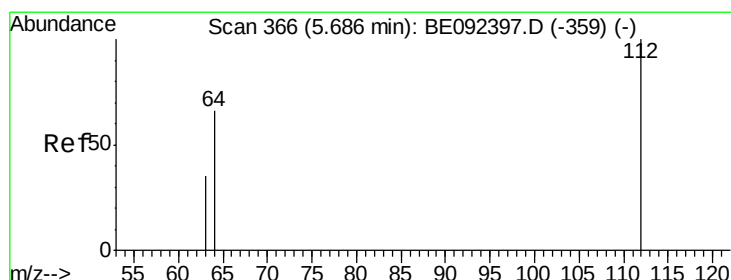
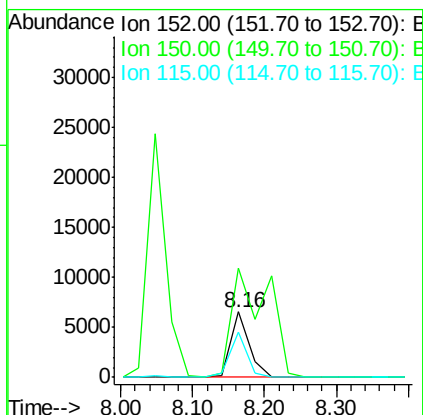
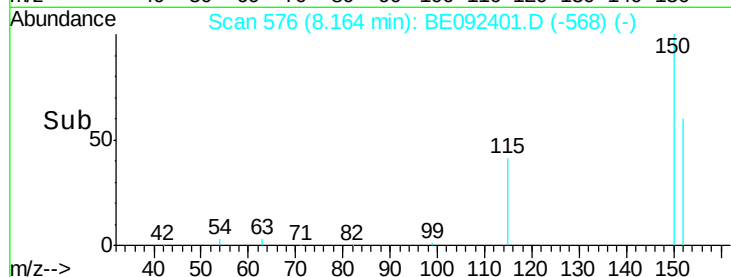
152 100

150 167.4 106.0 159.0#

115 69.4 31.2 46.8#

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#4

2-Fluorophenol

Concen: 121.08 ng

RT: 5.66 min Scan# 362

Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

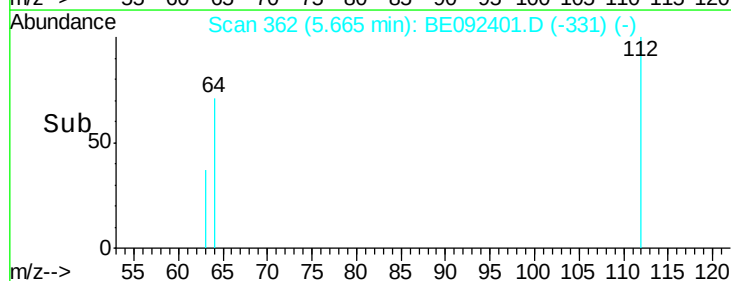
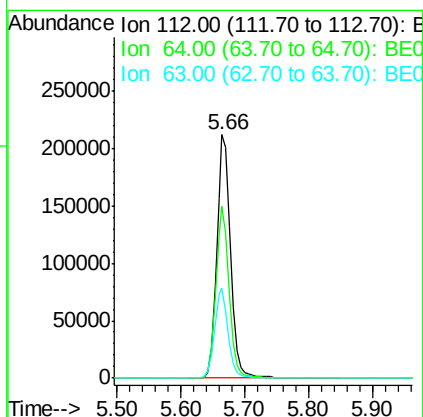
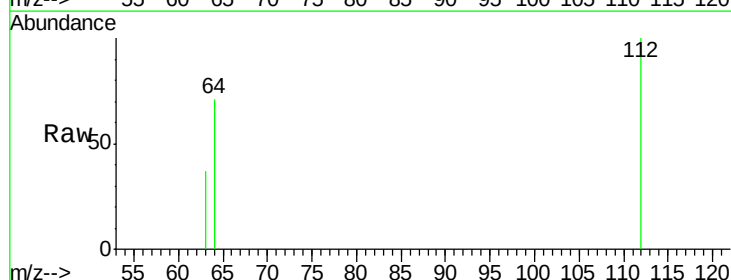
Tgt Ion:112 Resp: 327104

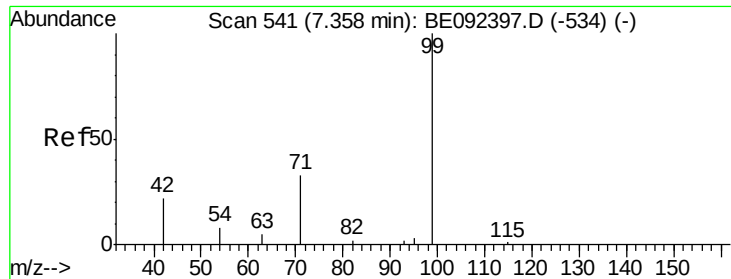
Ion Ratio Lower Upper

112 100

64 68.7 53.5 80.3

63 36.4 27.9 41.9





#5

Phenol-d6

Concen: 125.89 ng

RT: 7.33 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

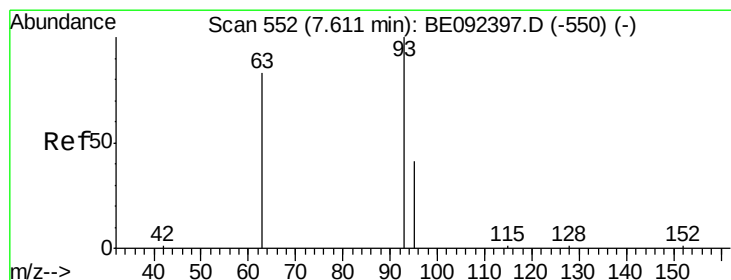
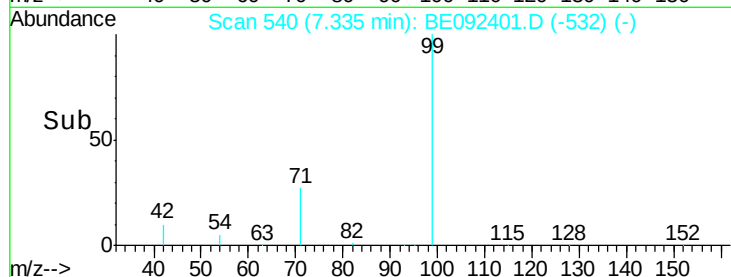
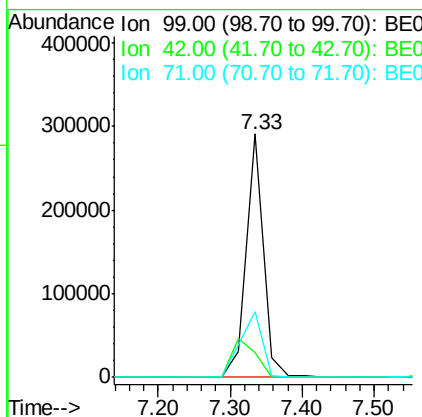
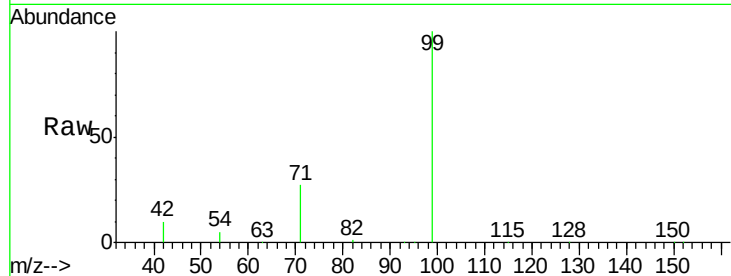
ClientSampleId :

PT-BN-WP

Tgt Ion:	99	Resp:	483761
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	34.7	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 144.96 ng

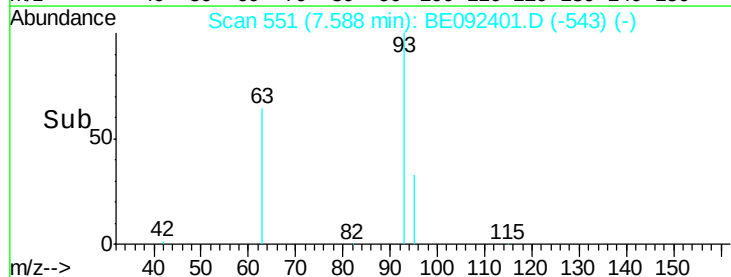
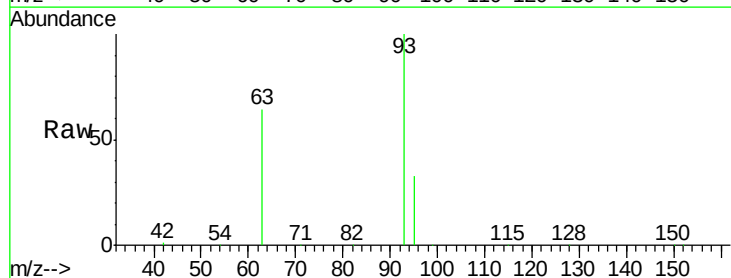
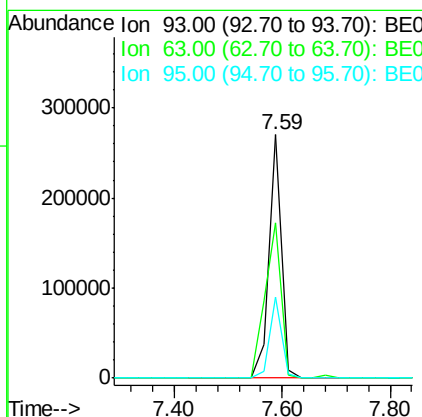
RT: 7.59 min Scan# 551

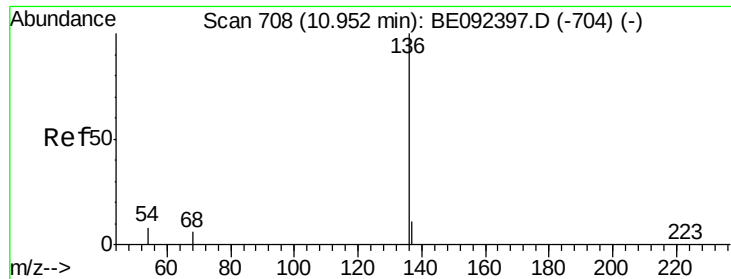
Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Tgt Ion:	93	Resp:	441364
Ion Ratio	Lower	Upper	
93	100		
63	82.1	71.6	107.4
95	32.4	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

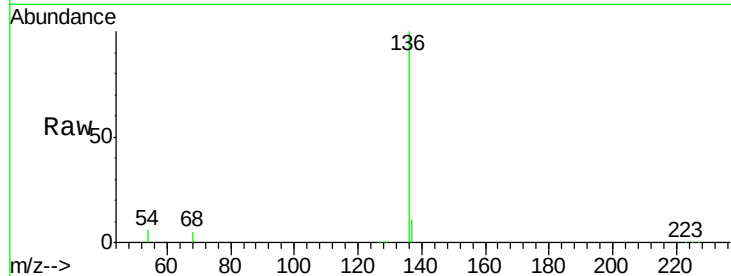
ClientSampleId :

PT-BN-WP

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	51480		
137	11.4	8.2	12.4	
54	6.2	9.6	14.4	
68	4.9	6.7	10.1	

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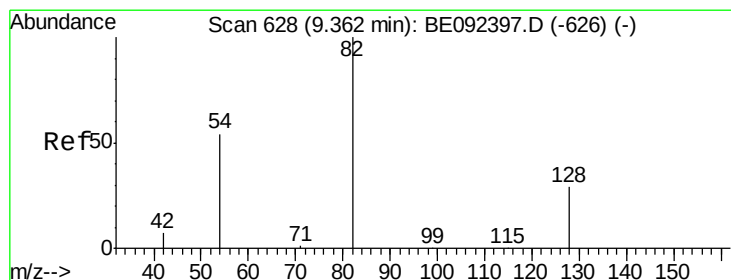
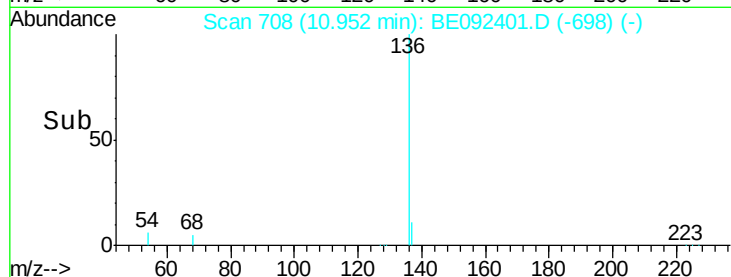
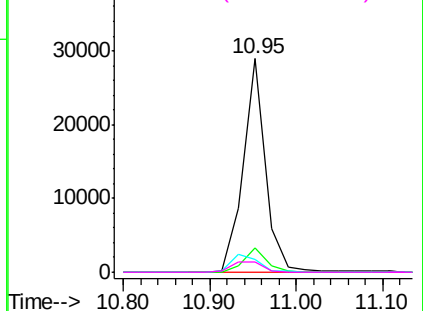


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 76.53 ng

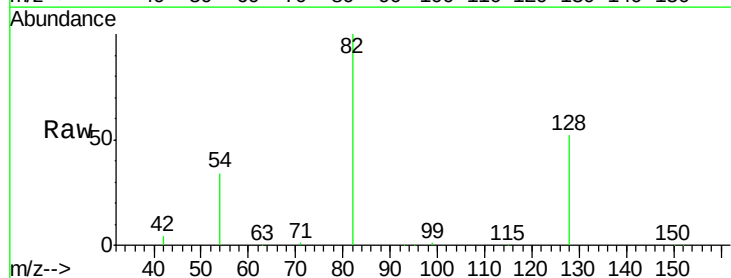
RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

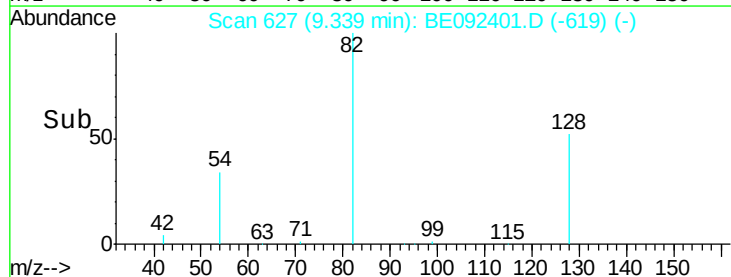
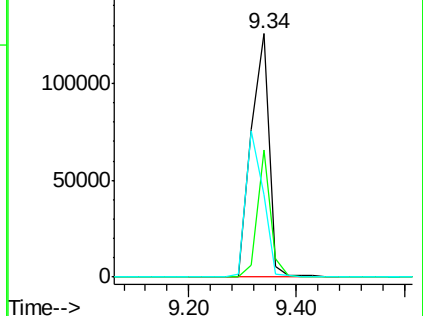
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	291163		
128	52.5	39.0	58.4	
54	33.8	44.8	67.2	

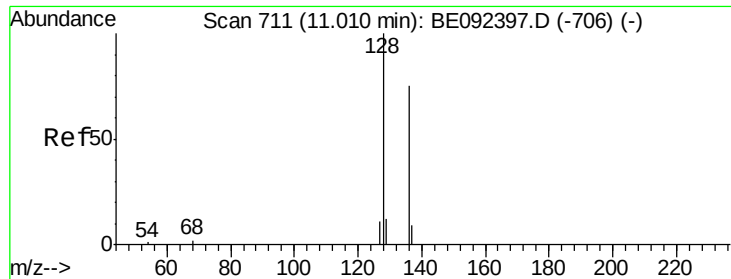


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 16.39 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

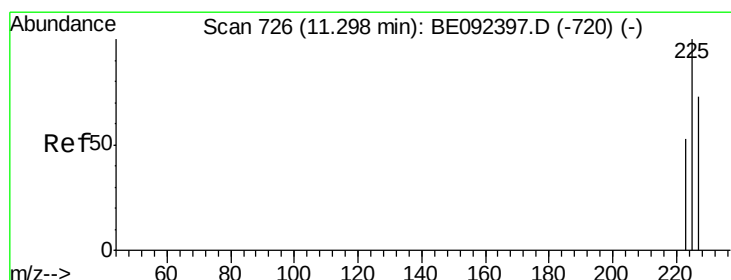
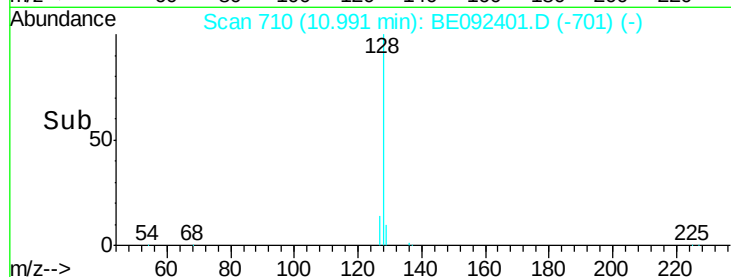
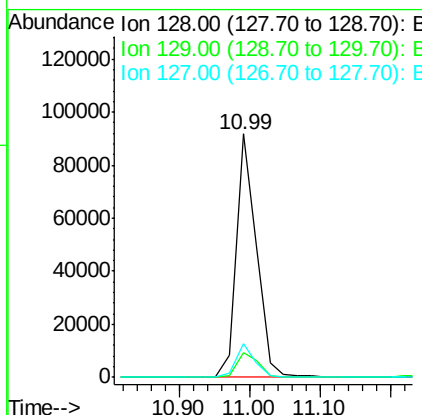
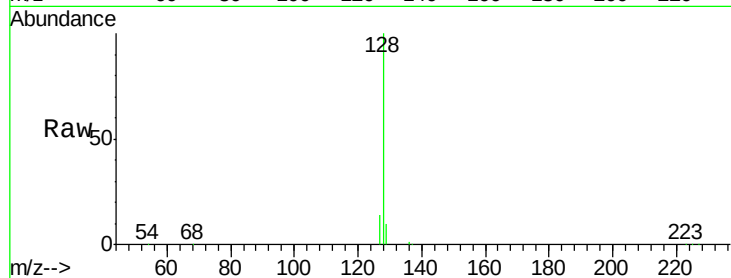
ClientSampleId :

PT-BN-WP

Tgt Ion:	128	Resp:	182612
Ion Ratio		Lower	Upper
128	100		
129	10.4	11.2	16.8#
127	14.0	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 63.73 ng

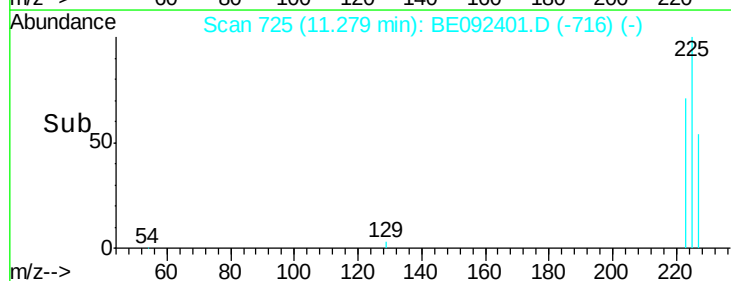
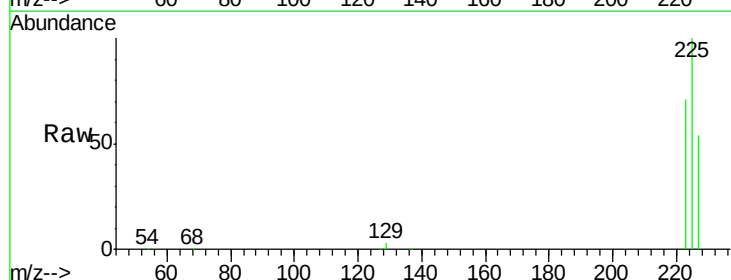
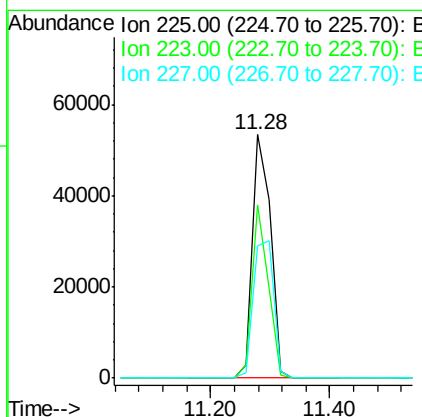
RT: 11.28 min Scan# 725

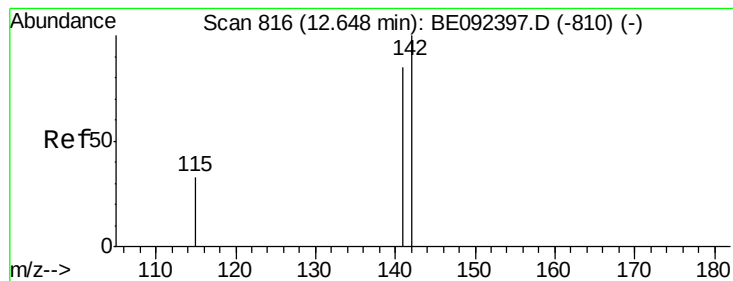
Delta R.T. -0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Tgt Ion:	225	Resp:	111784
Ion Ratio		Lower	Upper
225	100		
223	63.2	50.6	76.0
227	63.6	51.4	77.0





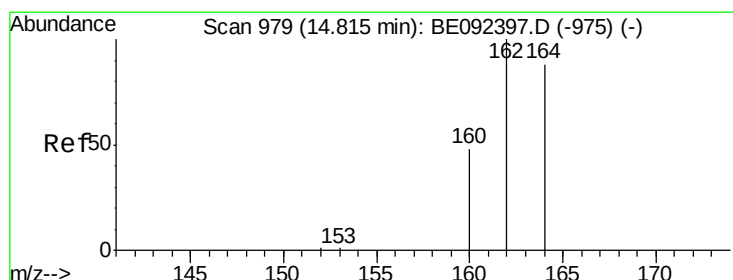
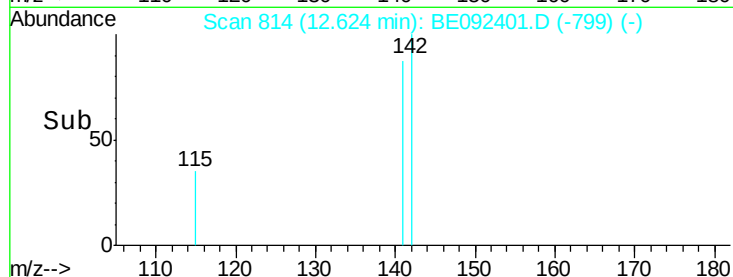
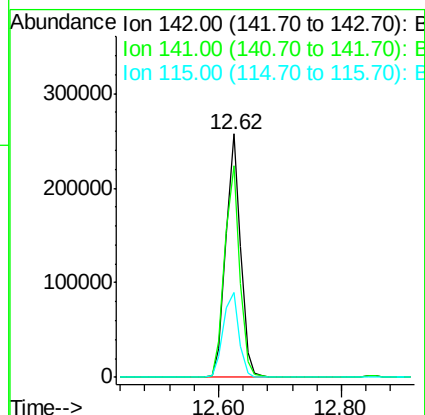
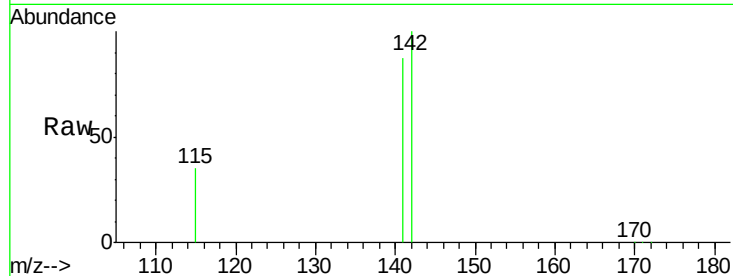
#11
2-Methylnaphthalene
Concen: 57.97 ng
RT: 12.62 min Scan# 814
Delta R.T. -0.02 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion:142 Resp: 427563
Ion Ratio Lower Upper
142 100
141 86.7 73.7 110.5
115 34.8 34.0 51.0

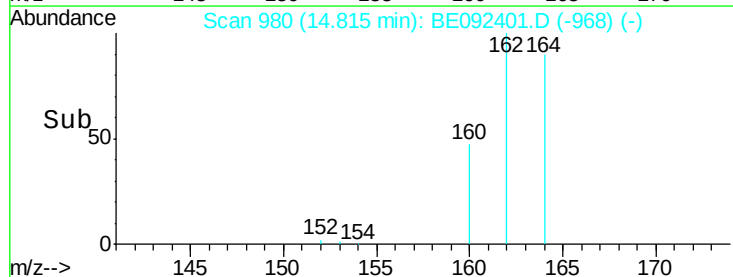
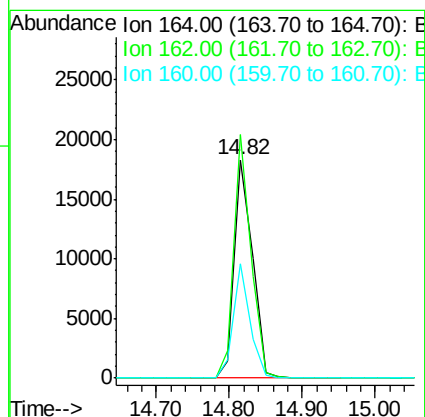
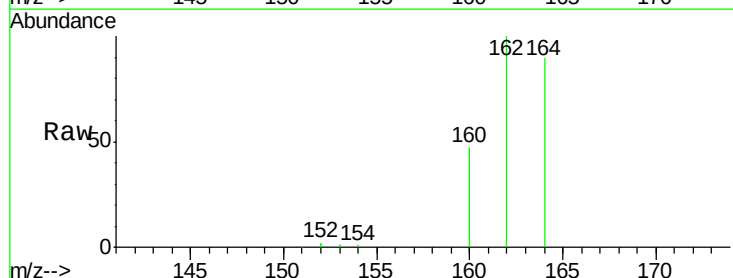
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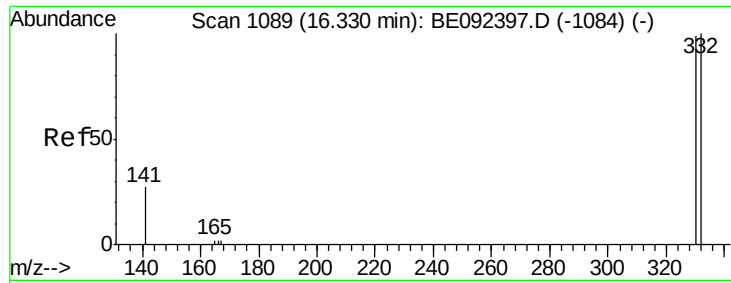
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.82 min Scan# 980
Delta R.T. 0.00 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

Tgt Ion:164 Resp: 30801
Ion Ratio Lower Upper
164 100
162 111.6 71.4 107.0#
160 52.6 27.4 41.2#





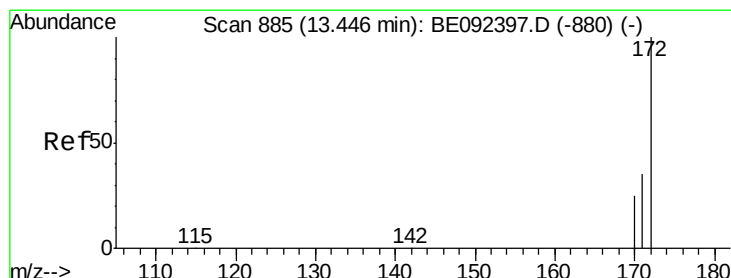
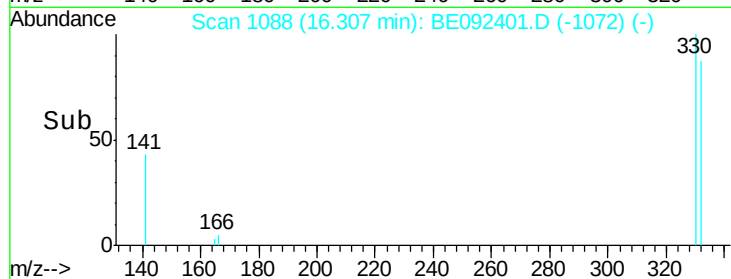
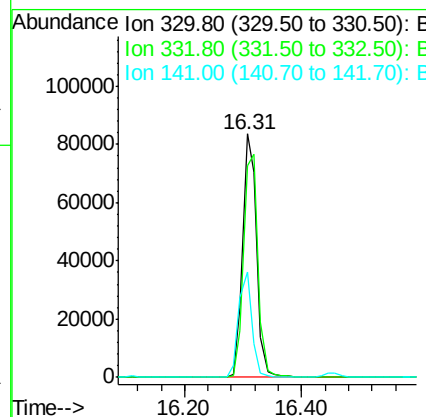
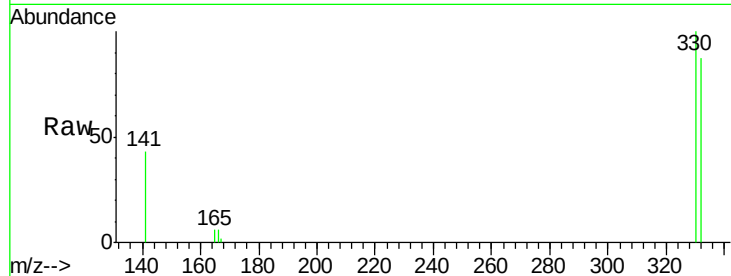
#13
 2,4,6-Tribromophenol
 Concen: 123.29 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092401.D
 Acq: 22 Sep 2016 18:28

Instrument :
 BNA_E
 ClientSampled :
 PT-BN-WP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	137198		
332	96.3	75.4	113.0	
141	41.5	31.0	46.6	

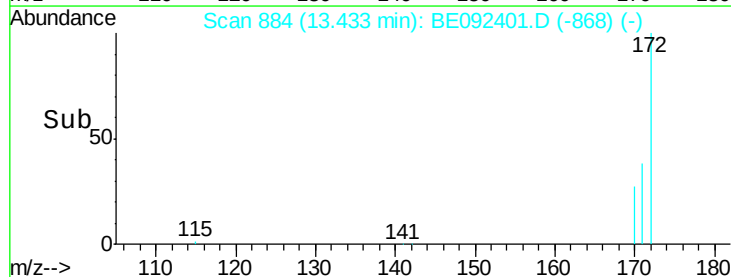
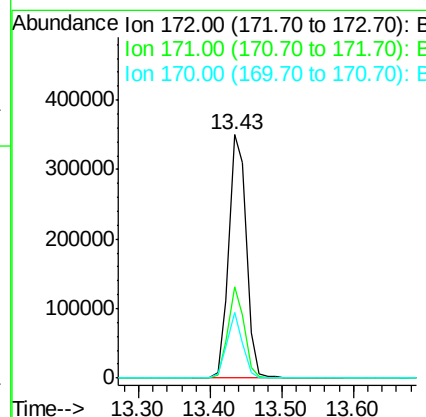
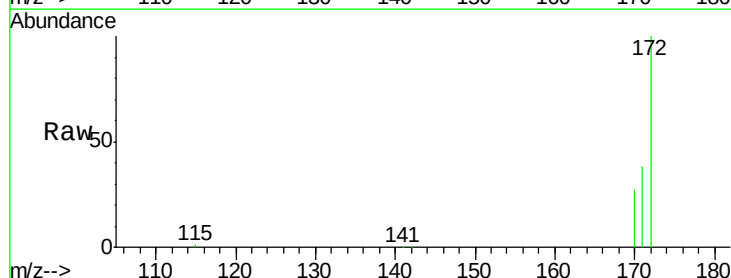
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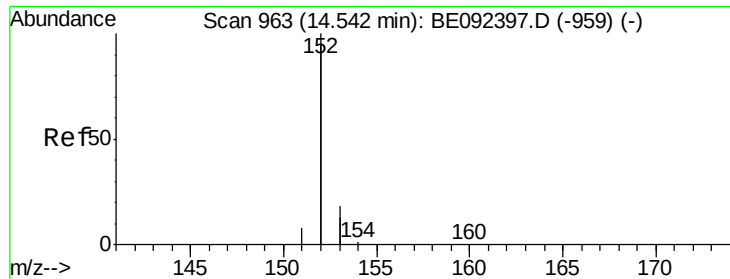
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#14
 2-Fluorobiphenyl
 Concen: 81.70 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092401.D
 Acq: 22 Sep 2016 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	595821		
171	37.6	30.1	45.1	
170	26.8	21.8	32.6	





#15

Acenaphthylene

Concen: 134.92 ng

RT: 14.53 min Scan# 963

Delta R.T. 0.00 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

Tgt Ion:152 Resp: 6017836

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

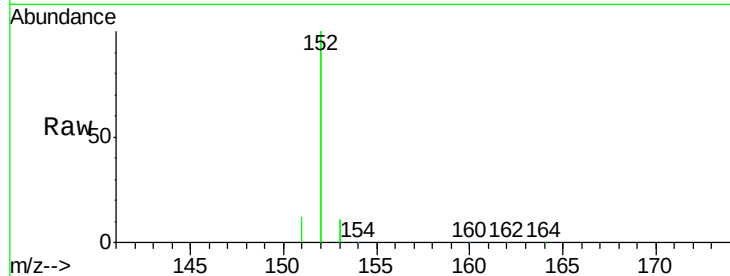
153 13.6 10.4 15.6

Manual Integrations

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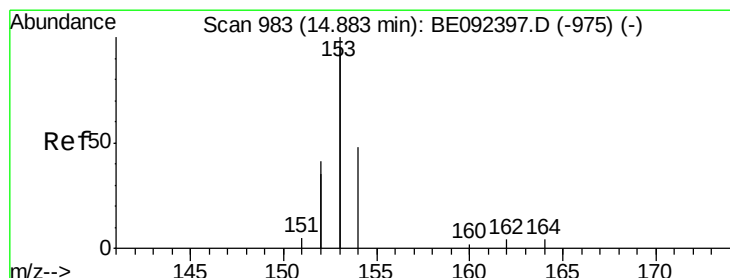
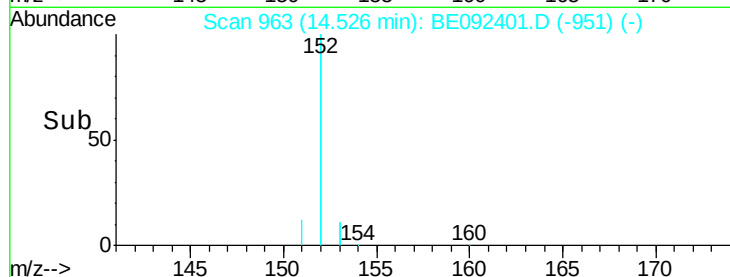
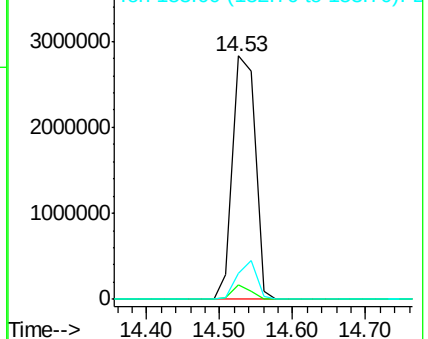
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#16

Acenaphthene

Concen: 59.26 ng

RT: 14.88 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

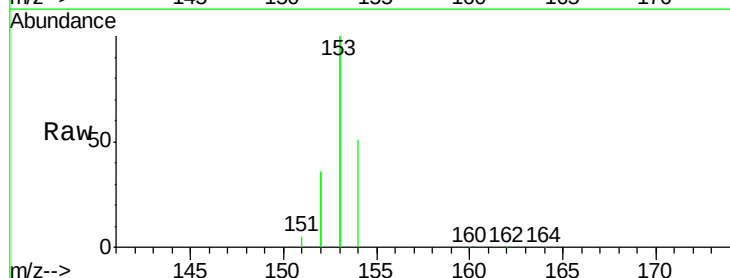
Tgt Ion:154 Resp: 413975

Ion Ratio Lower Upper

154 100

153 451.7 350.8 526.2

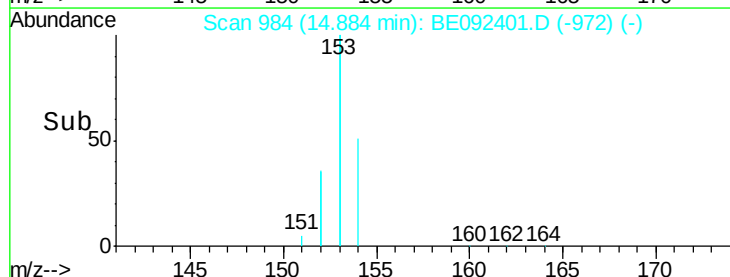
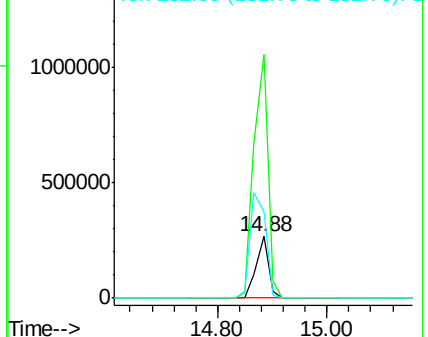
152 217.1 171.1 256.7

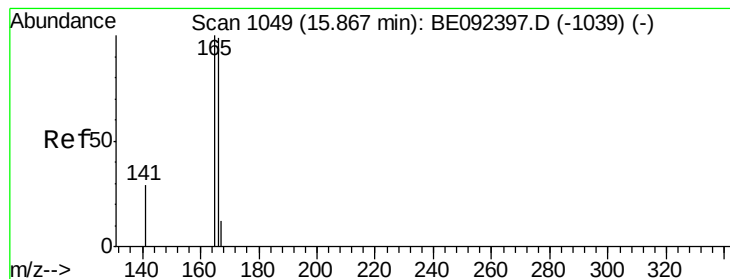


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#17

Fluorene

Concen: 120.03 ng

RT: 15.88 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BE092401.D

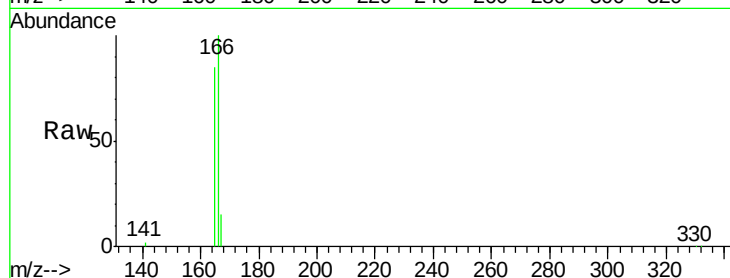
Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP



Tgt Ion:166 Resp: 1063074

Ion Ratio Lower Upper

166 100

165 99.3 78.2 117.4

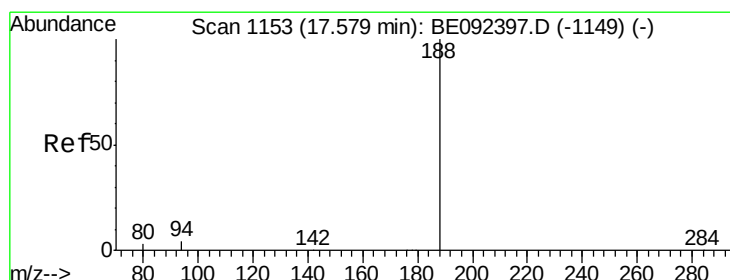
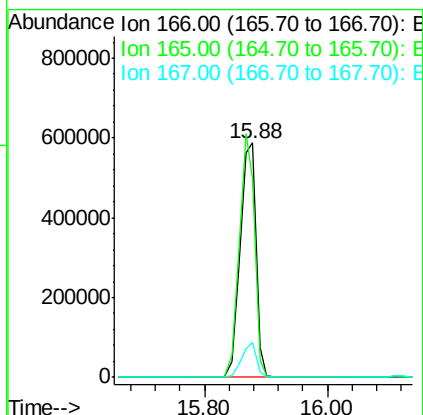
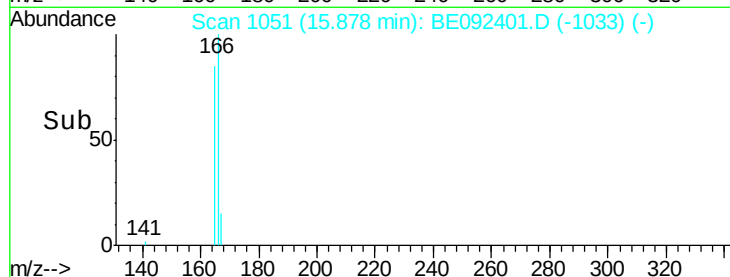
167 13.8 11.0 16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

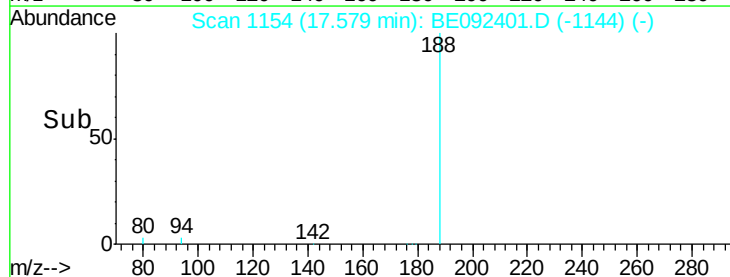
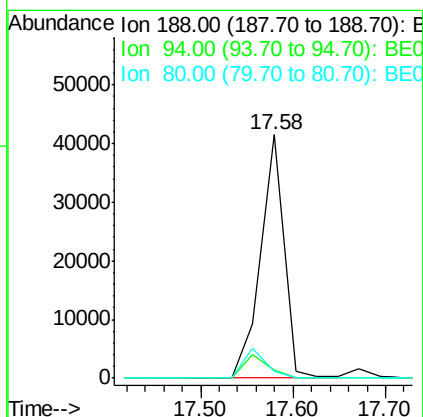
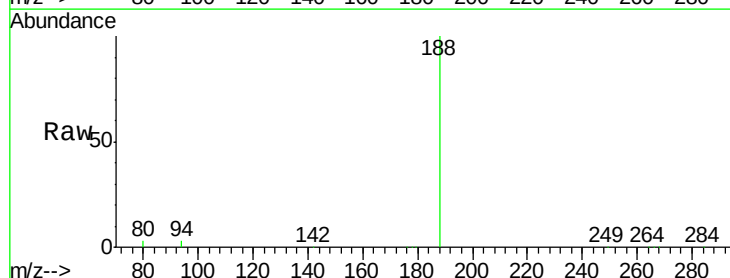
Tgt Ion:188 Resp: 72312

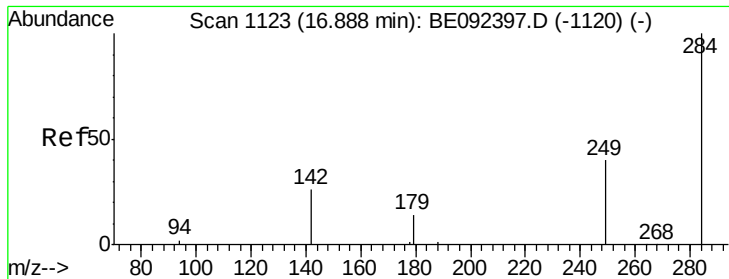
Ion Ratio Lower Upper

188 100

94 3.4 3.2 4.8

80 2.8 2.6 3.8





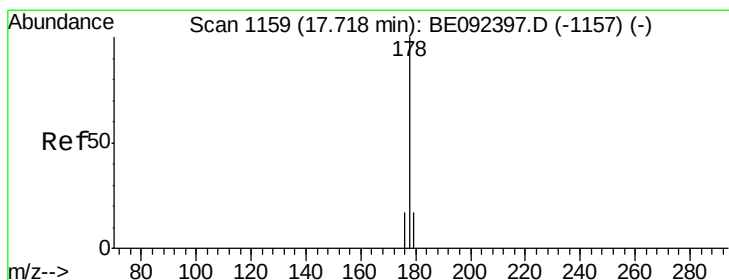
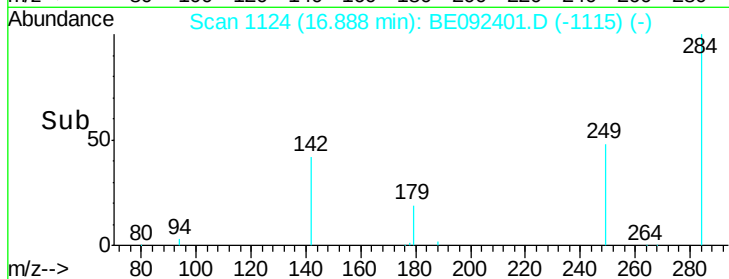
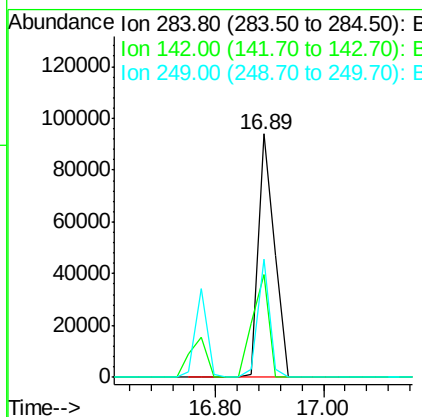
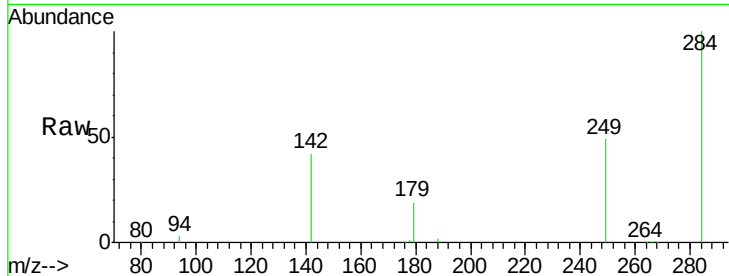
#19
Hexachlorobenzene
Concen: 63.67 ng
RT: 16.89 min Scan# 1124
Delta R.T. -0.00 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

Instrument :
BNA_E
ClientSampleId :
PT-BN-WP

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	197074		
142	42.6	29.1	43.7	
249	36.1	27.9	41.9	

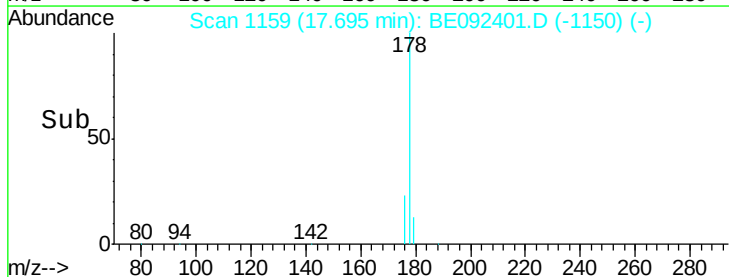
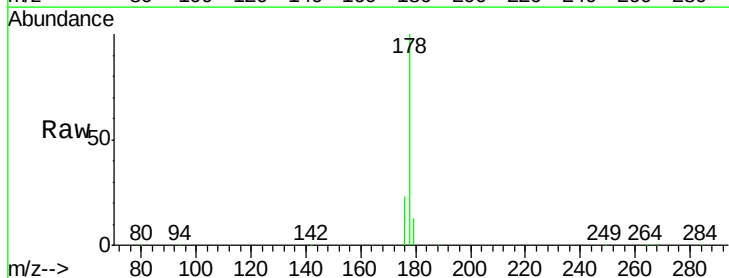
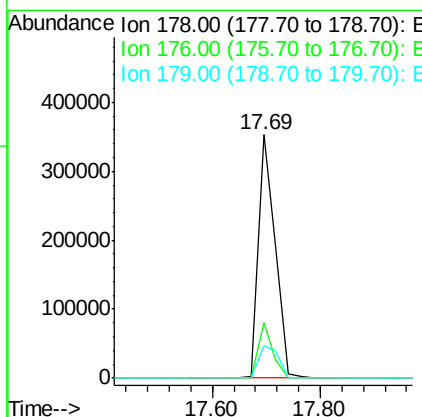
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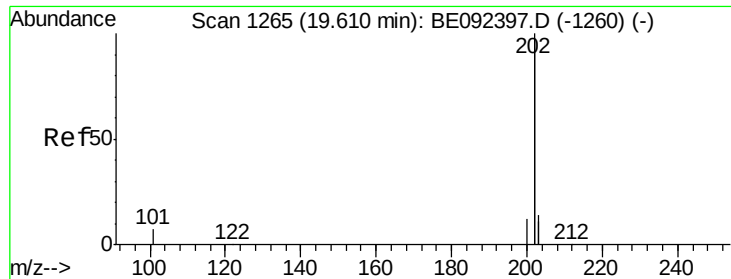
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#22
Anthracene
Concen: 48.22 ng
RT: 17.69 min Scan# 1159
Delta R.T. -0.00 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	770558		
176	19.7	15.0	22.4	
179	15.8	12.2	18.2	





#23

Fluoranthene

Concen: 117.62 ng

RT: 19.63 min Scan# 1267

Delta R.T. 0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

Tgt Ion:202 Resp: 9288201

Ion Ratio Lower Upper

202 100

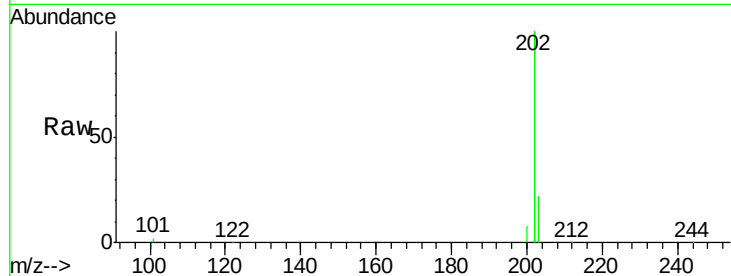
101 3.3 2.2 3.4

203 18.0 13.7 20.5

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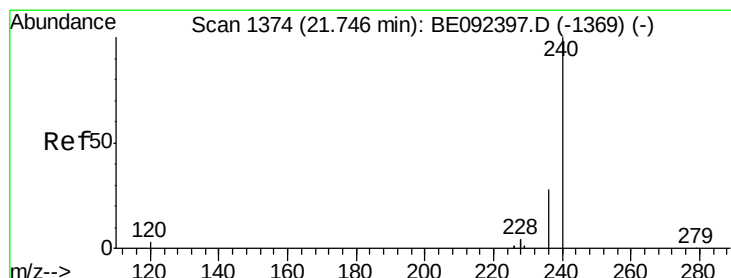
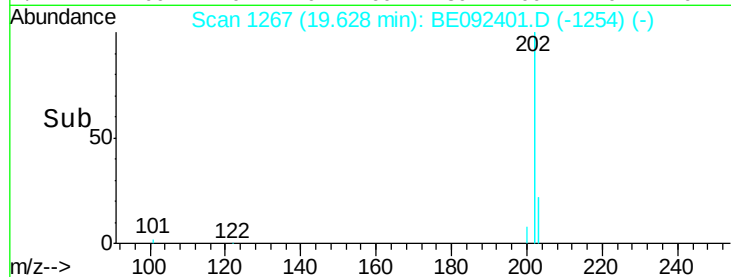
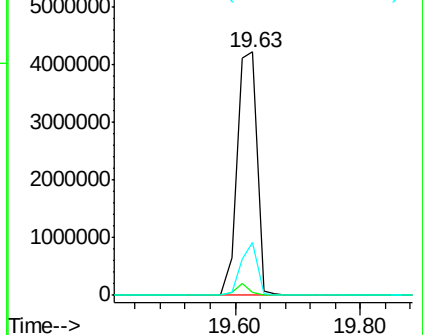
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1375

Delta R.T. -0.00 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Tgt Ion:240 Resp: 79294

Ion Ratio Lower Upper

240 100

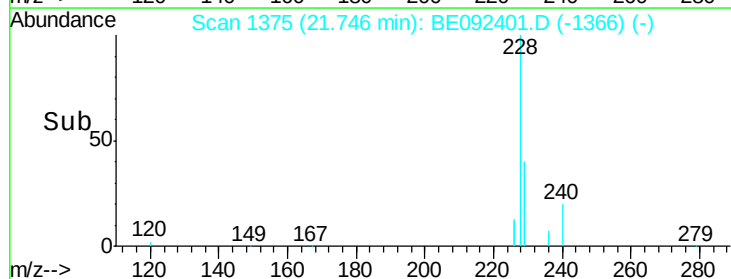
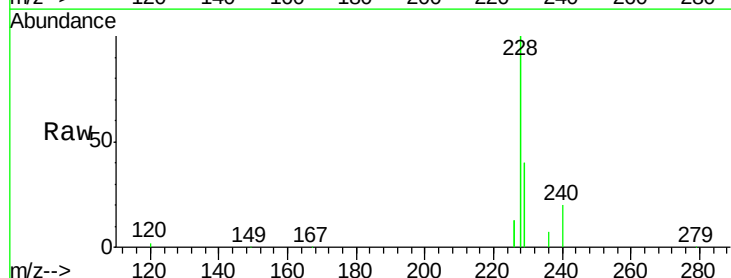
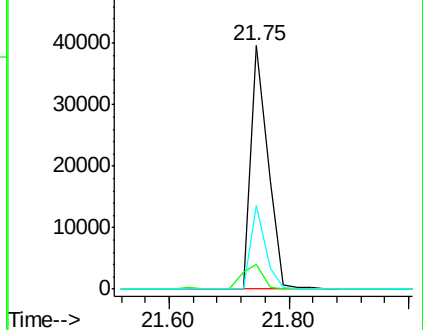
120 10.1 2.6 4.0#

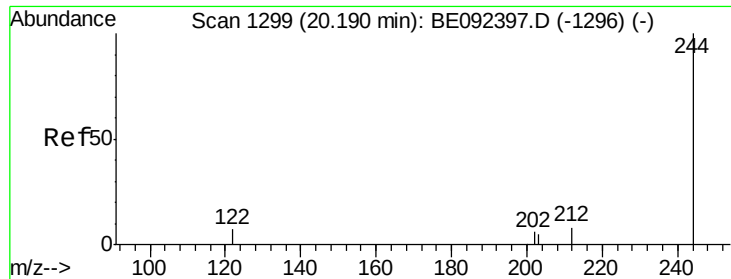
236 34.6 24.6 37.0

Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





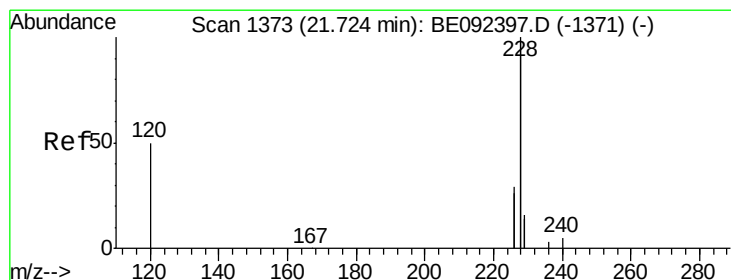
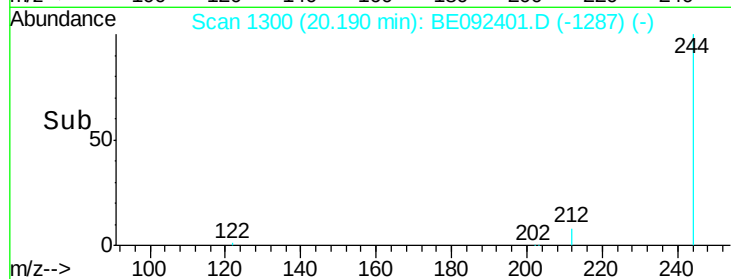
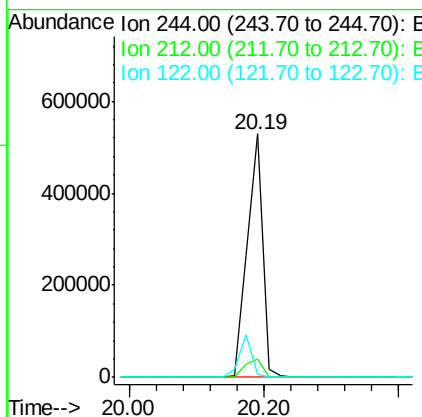
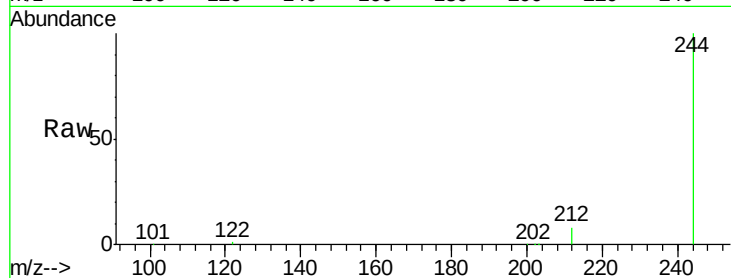
#26
 Terphenyl-d14
 Concen: 85.37 ng
 RT: 20.19 min Scan# 1300
 Delta R.T. 0.02 min
 Lab File: BE092401.D
 Acq: 22 Sep 2016 18:28

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	839719		
212	7.7	6.7	10.1	
122	1.1	3.6	5.4	

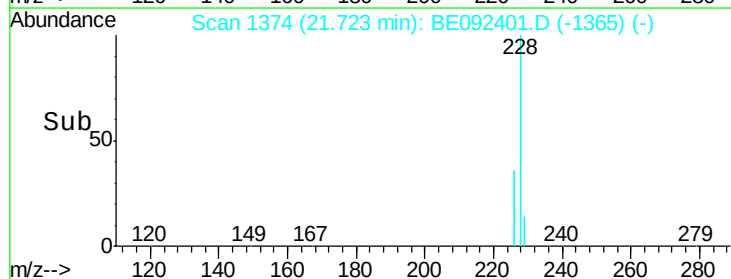
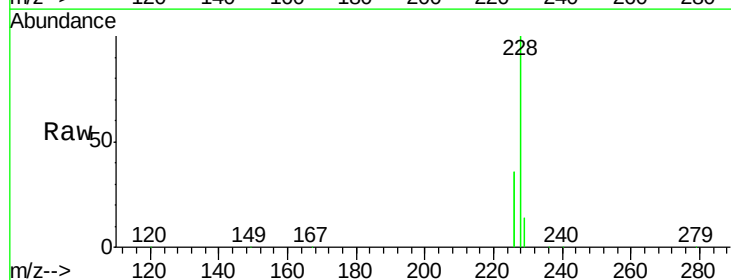
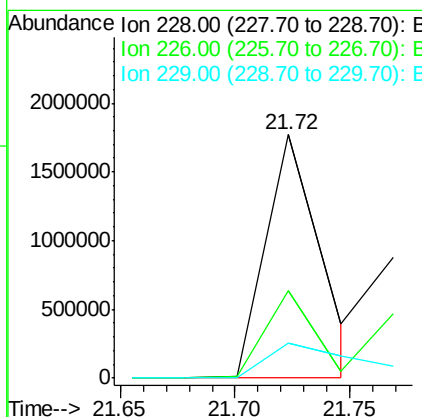
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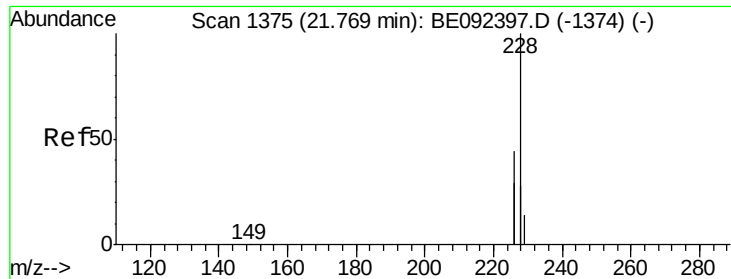
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#27
 Benzo(a)anthracene
 Concen: 38.31 ng m
 RT: 21.72 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: BE092401.D
 Acq: 22 Sep 2016 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	2960645		
226	35.7	23.6	35.4	
229	14.4	13.3	19.9	





#28

Chrysene

Concen: 84.79 ng m

RT: 21.79 min Scan# 1377

Delta R.T. 0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

Tgt Ion:228 Resp: 6000327

Ion Ratio Lower Upper

228 100

226 25.5 36.3 54.5#

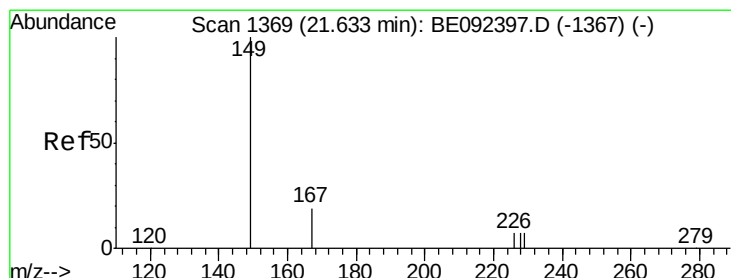
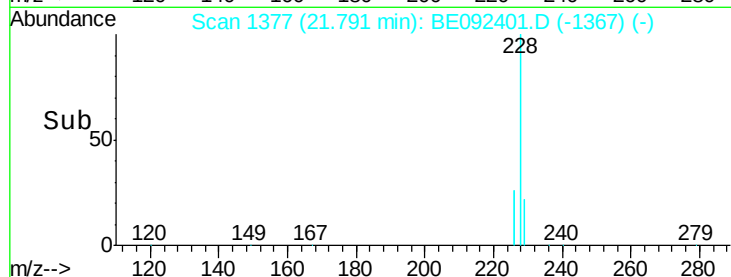
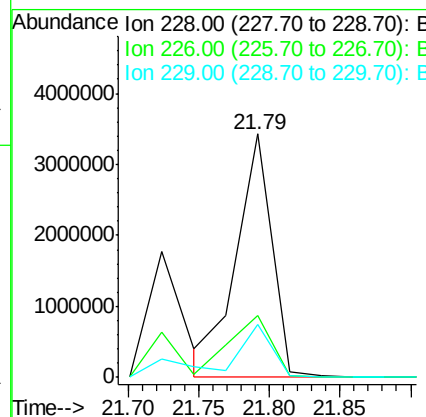
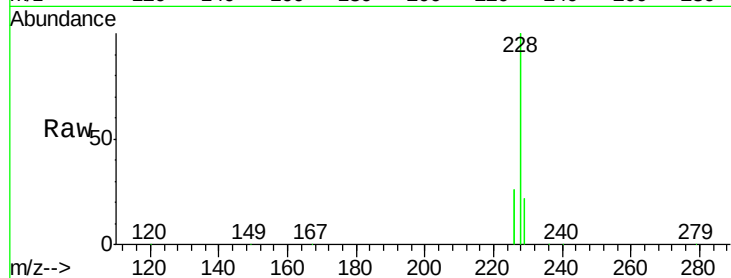
229 21.9 10.6 16.0#

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#29

Bis(2-ethylhexyl)phthalate

Concen: 67.91 ng

RT: 21.66 min Scan# 1371

Delta R.T. 0.02 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

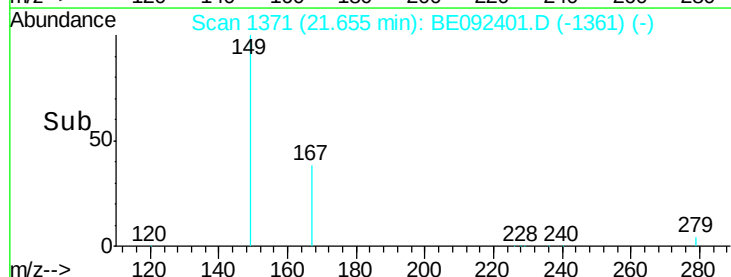
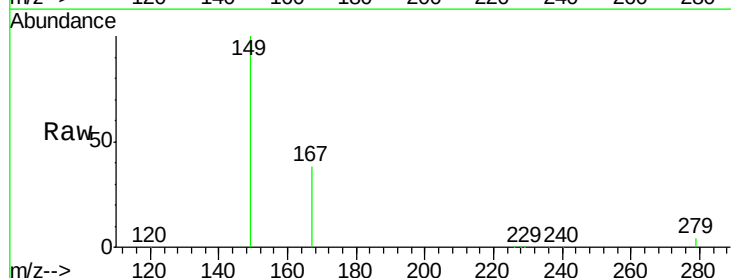
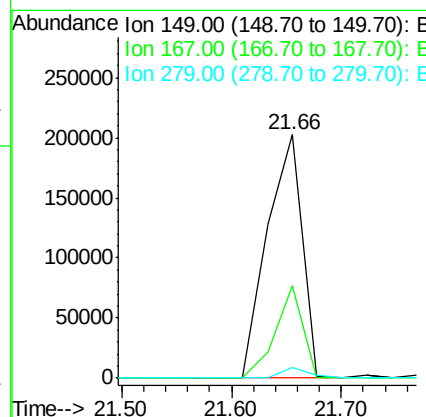
Tgt Ion:149 Resp: 451832

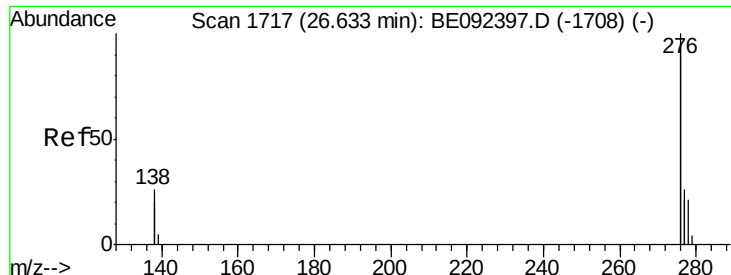
Ion Ratio Lower Upper

149 100

167 29.8 16.0 24.0#

279 3.3 16.0 24.0#





#30

Indeno(1,2,3-cd)pyrene

Concen: 63.02 ng

RT: 26.65 min Scan# 1719

Delta R.T. 0.07 min

Lab File: BE092401.D

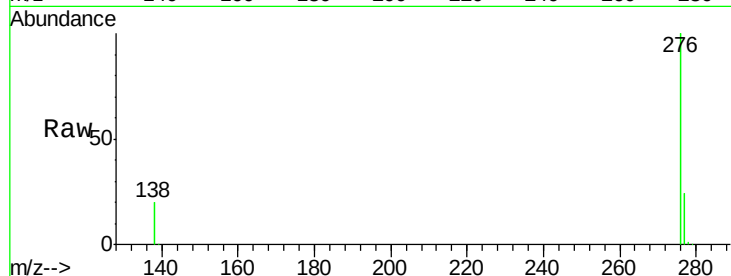
Acq: 22 Sep 2016 18:28

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP



Tgt Ion: 276 Resp: 4731361

Ion Ratio Lower Upper

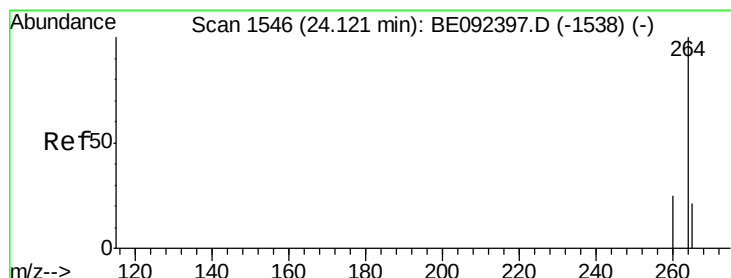
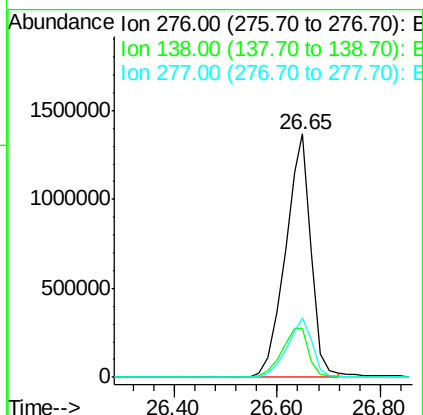
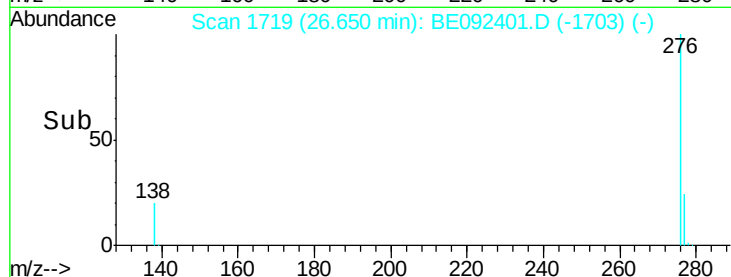
276 100

138 21.4 20.3 30.5

277 24.1 19.7 29.5

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#31

Perylene-d12

Concen: 5.00 ng

RT: 24.12 min Scan# 1547

Delta R.T. 0.04 min

Lab File: BE092401.D

Acq: 22 Sep 2016 18:28

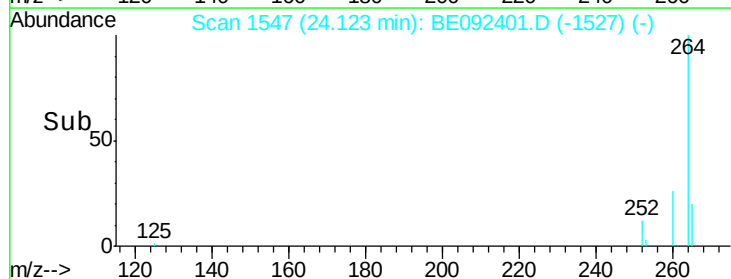
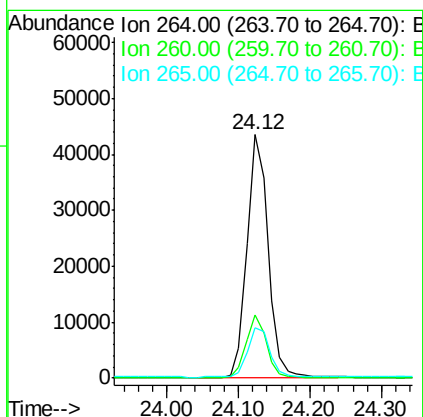
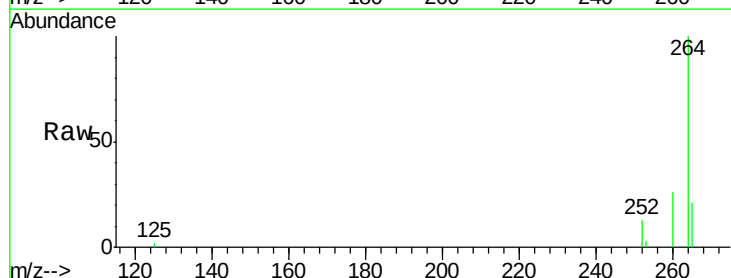
Tgt Ion: 264 Resp: 90117

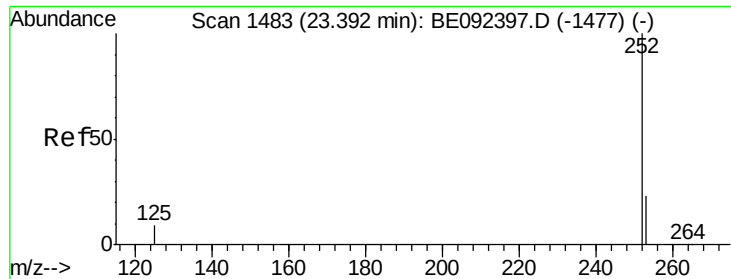
Ion Ratio Lower Upper

264 100

260 25.7 20.1 30.1

265 20.8 17.9 26.9





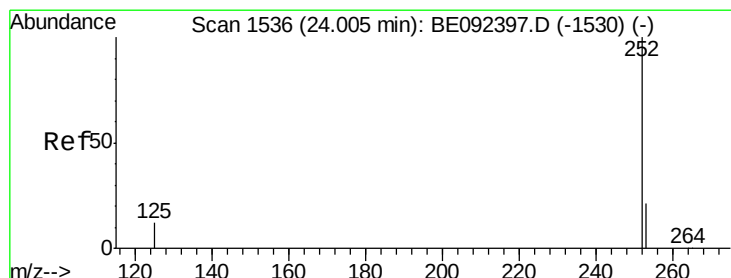
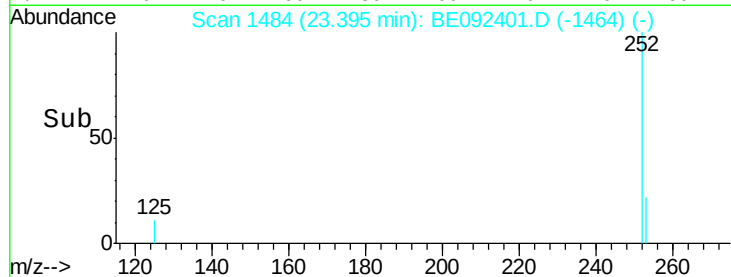
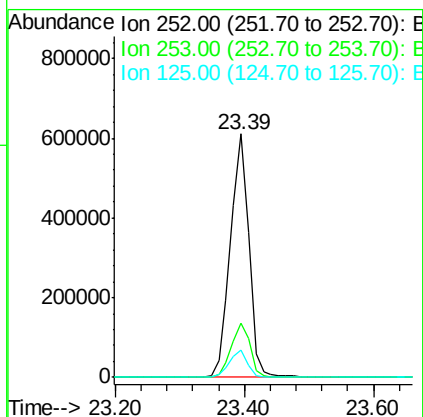
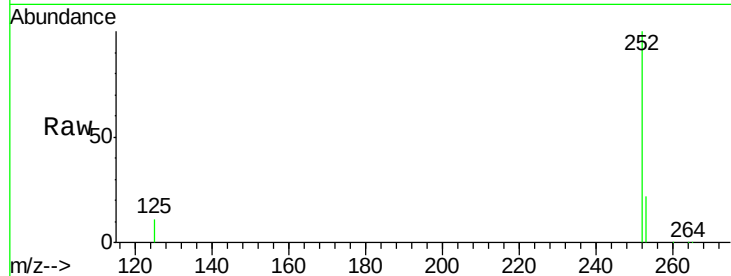
#32
Benzo(b)fluoranthene
Concen: 55.56 ng
RT: 23.39 min Scan# 1484
Delta R.T. 0.04 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

Instrument :
BNA_E
ClientSampleId :
PT-BN-WP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.7	28.1
125	11.1	10.5	15.7

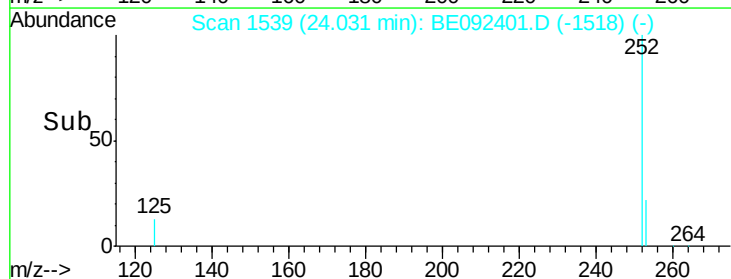
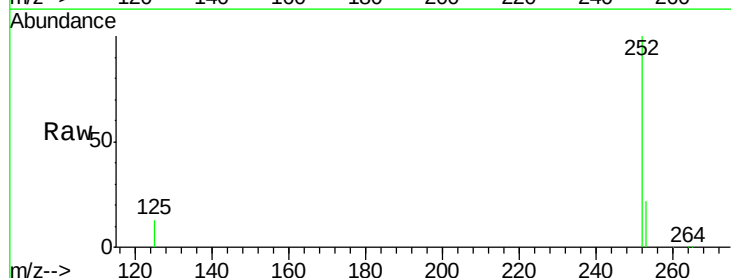
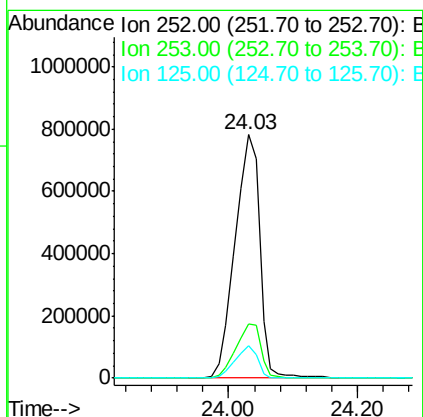
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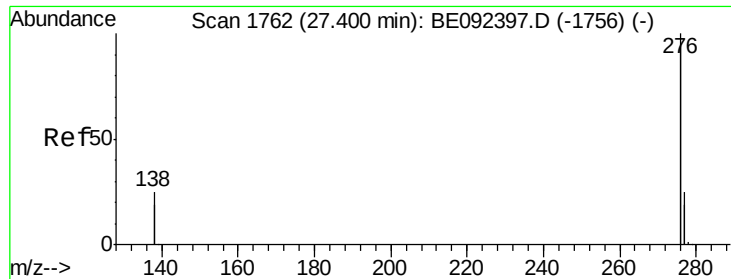
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#34
Benzo(a)pyrene
Concen: 96.67 ng
RT: 24.03 min Scan# 1539
Delta R.T. 0.05 min
Lab File: BE092401.D
Acq: 22 Sep 2016 18:28

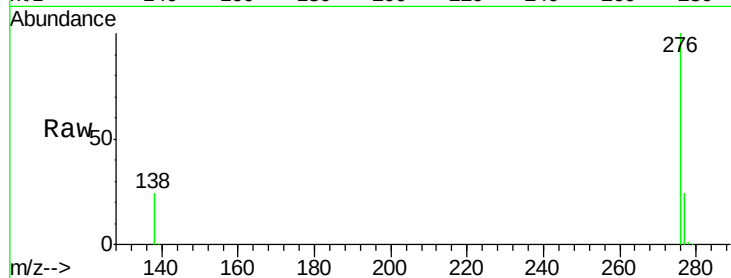
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.0	28.6
125	13.5	11.8	17.8





#36
 Benzo(g,h,i)perylene
 Concen: 92.84 ng
 RT: 27.45 min Scan# 1766
 Delta R.T. 0.10 min
 Lab File: BE092401.D
 Acq: 22 Sep 2016 18:28

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP



Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.8	29.8
138	24.4	19.8	29.6

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