

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089709.D
 Acq On : 27 Feb 2015 3:21
 Operator : TP/JJ
 Sample : PB81904BS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81904BS

Manual Integrations
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Quant Time: Feb 27 13:56:44 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE022615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 27 13:38:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	40318	5.00	ng	0.00
7) Naphthalene-d8	12.23	136	167233	5.00	ng	0.00
13) Acenaphthene-d10	16.40	164	75440	5.00	ng	0.00
17) Phenanthrene-d10	19.76	188	135999	5.00	ng	0.00
20) Chrysene-d12	23.65	240	129996	5.00	ng	0.00
27) Perylene-d12	25.34	264	105084	5.00	ng	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	6.49	112	148235	15.19	ng	0.00
4) Phenol-d6	8.61	99	199478	15.05	ng	0.00
8) Nitrobenzene-d5	10.60	82	107386	10.35	ng	0.00
14) 2,4,6-Tribromophenol	18.31	330	17297	13.29	ng	0.00
15) 2-Fluorobiphenyl	14.87	172	184273	10.99	ng	0.00
22) Terphenyl-d14	22.30	244	175663	11.15	ng	0.00
Target Compounds						
2) n-Nitrosodimethylamine	3.31	42	62701	9.09	ng	# 70
5) Phenol	8.63	94	148313	10.25	ng	# 29
6) bis(2-Chloroethyl)ether	8.82	93	119447	10.53	ng	# 99
9) Nitrobenzene	10.64	77	120643	12.25	ng	97
10) 2,4-Dimethylphenol	11.57	122	82974	10.83	ng	99
11) 2,4-Dichlorophenol	11.95	162	65091	11.61	ng	98
12) Hexachlorobutadiene	12.62	225	31034	9.75	ng	100
16) 2,4-Dinitrophenol	16.65	184	11096	14.21	ng	# 76
18) Hexachlorobenzene	18.99	284	37132	10.49	ng	# 83
19) Pentachlorophenol	19.43	266	27159	12.56	ng	94
21) Benzidine	21.96	184	298535	16.88	ng	97
23) Benzo(a)anthracene	23.64	228	1064607	11.52	ng	94
24) 3,3'-Dichlorobenzidine	23.63	252	84255	10.06	ng	# 96
25) Chrysene	23.69	228	1108317m	9.75	ng	
26) Indeno(1,2,3-cd)pyrene	26.74	276	217776	9.79	ng	# 78
28) Benzo(b)fluoranthene	24.91	252	197661	10.10	ng	98
29) Benzo(k)fluoranthene	24.94	252	285956	9.87	ng	100
30) Benzo(a)pyrene	25.27	252	202266	10.29	ng	100
31) Dibenzo(a,h)anthracene	26.77	278	176716	9.88	ng	99

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

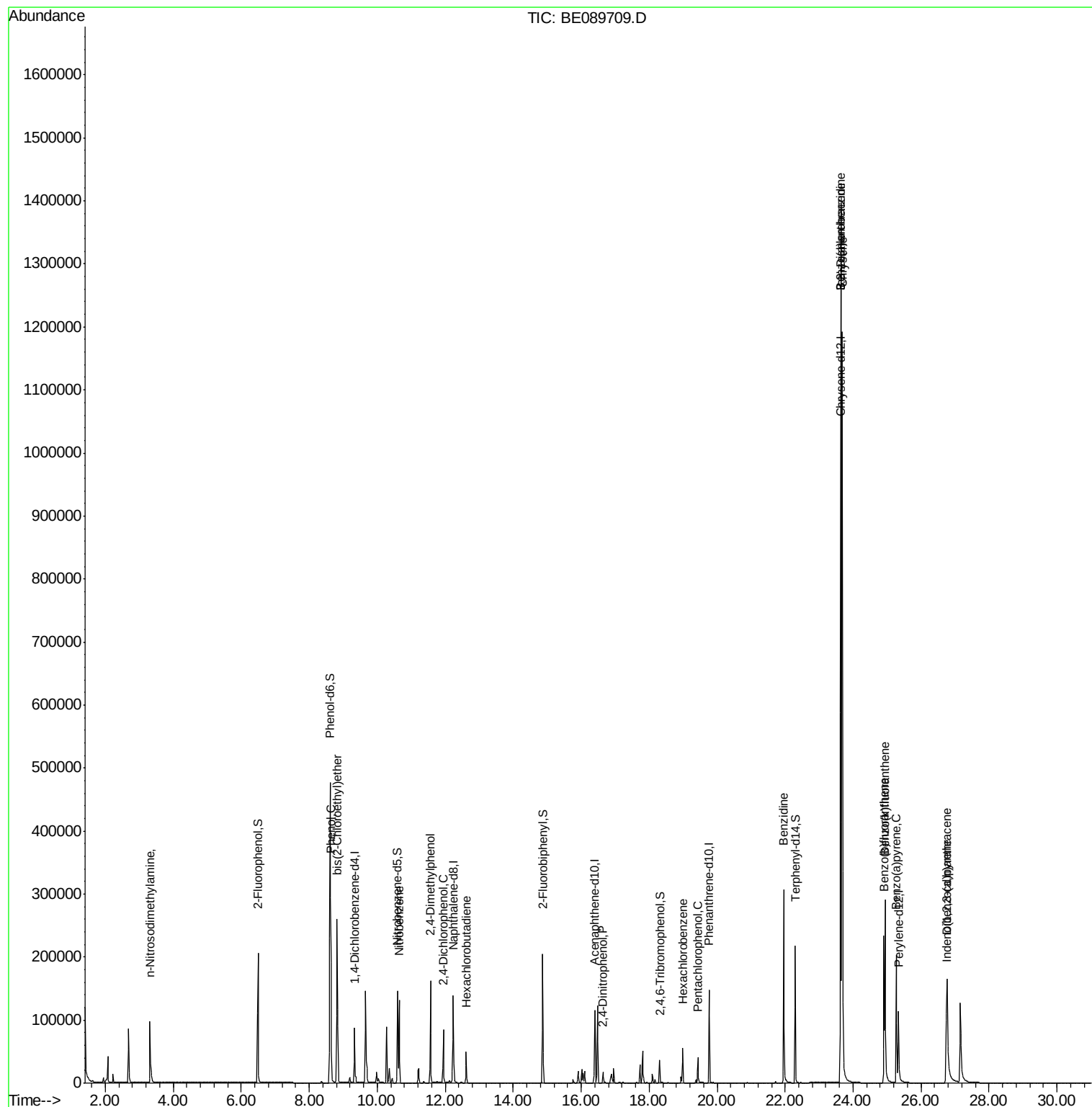
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
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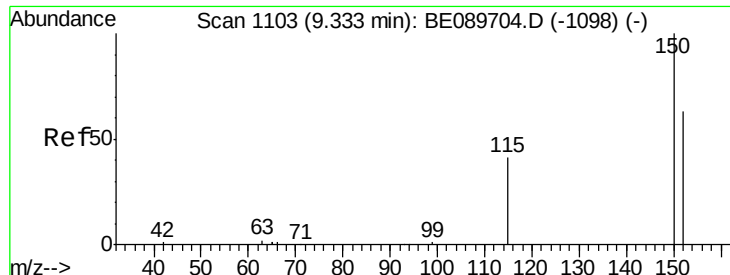
Instrument :
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PB81904BS

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 27 13:38:44 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1104

Delta R.T. 0.00 min

Lab File: BE089709.D

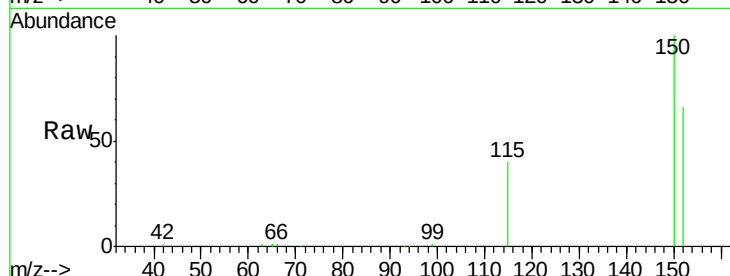
Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampleId :

PB81904BS



Tgt Ion:152 Resp: 40318

Ion Ratio Lower Upper

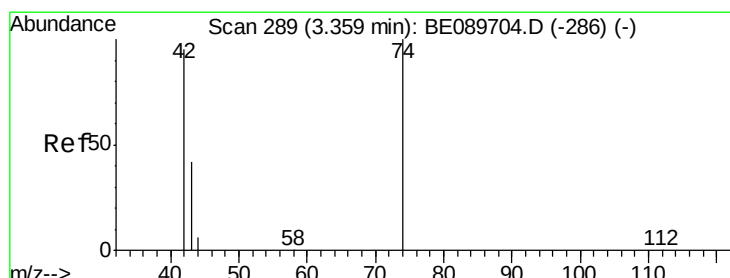
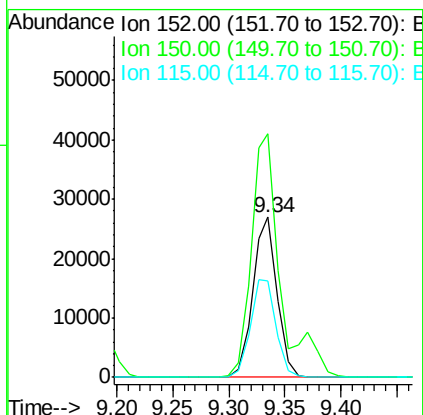
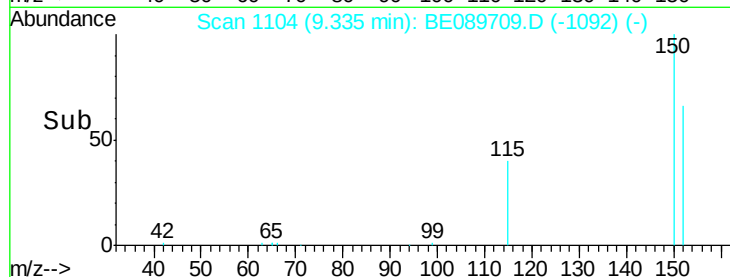
152 100

150 151.9 127.3 190.9

115 60.5 52.0 78.0

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#2

n-Nitrosodimethylamine

Concen: 9.09 ng

RT: 3.31 min Scan# 282

Delta R.T. -0.05 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

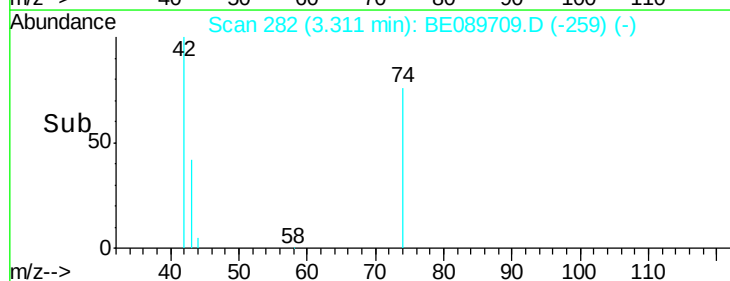
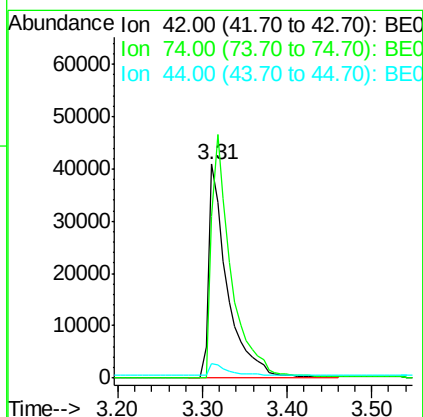
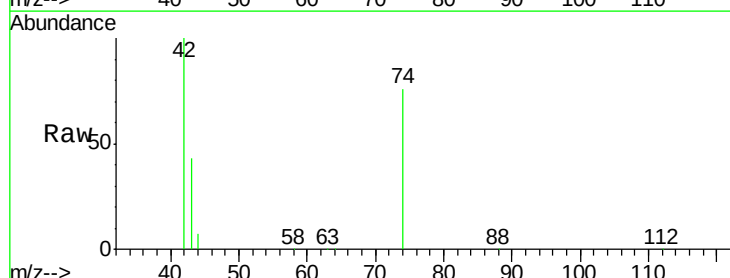
Tgt Ion: 42 Resp: 62701

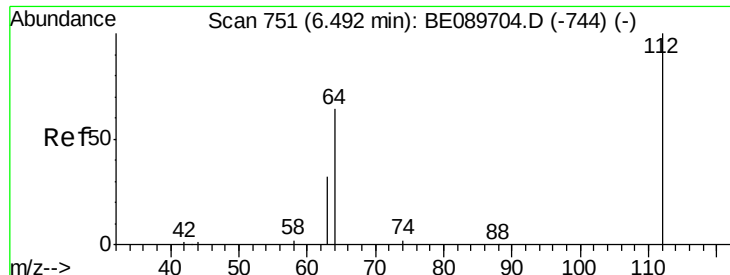
Ion Ratio Lower Upper

42 100

74 75.6 83.8 125.8#

44 6.6 19.0 28.6#





#3

2-Fluorophenol

Concen: 15.19 ng

RT: 6.49 min Scan# 751

Delta R.T. -0.00 min

Lab File: BE089709.D

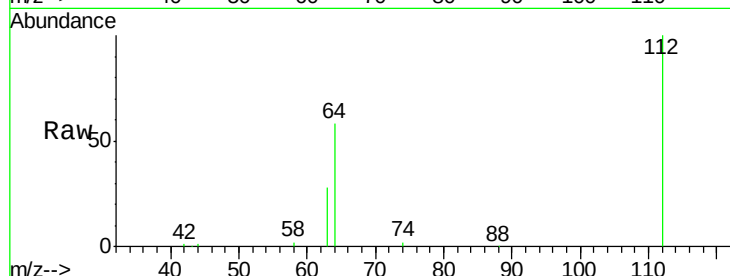
Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampleId :

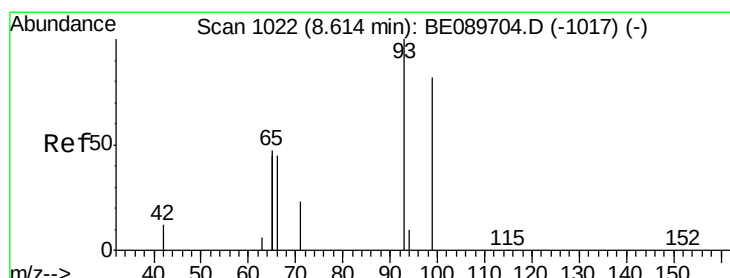
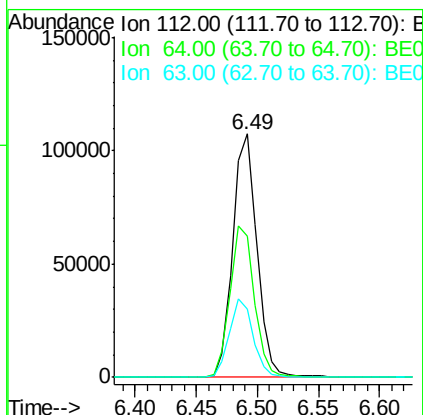
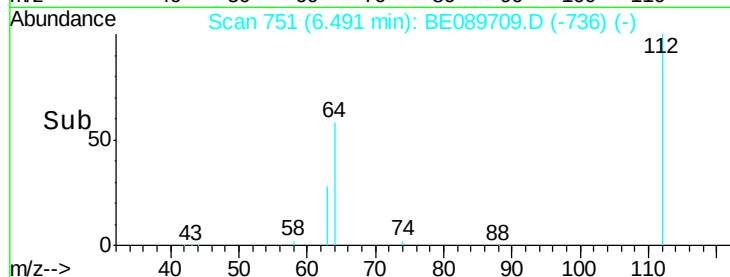
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Tgt Ion	Ratio	Resp	Lower	Upper
112	100	148235		
64	58.0	51.3	76.9	
63	28.3	26.2	39.2	

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#4

Phenol-d6

Concen: 15.05 ng

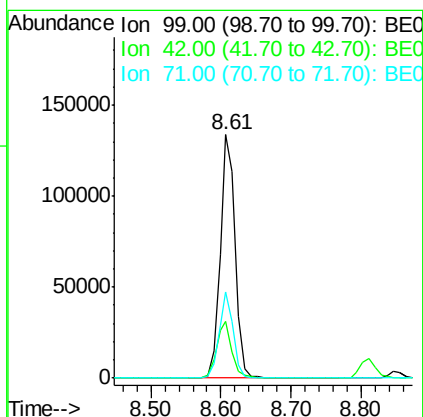
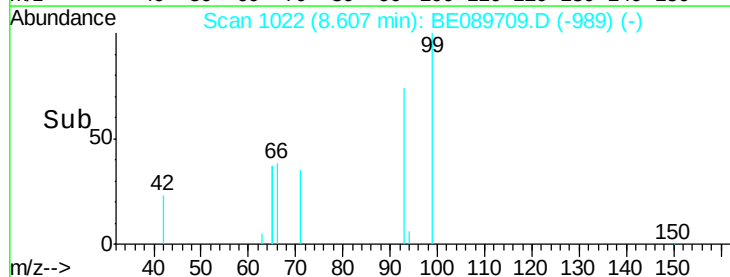
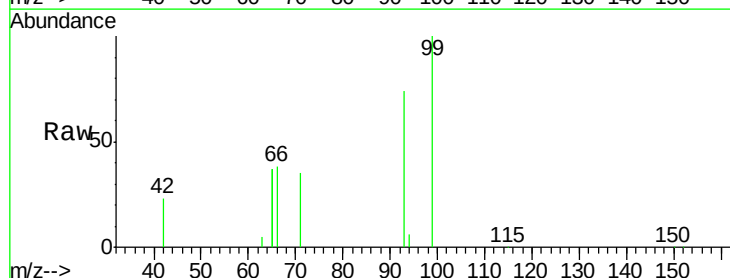
RT: 8.61 min Scan# 1022

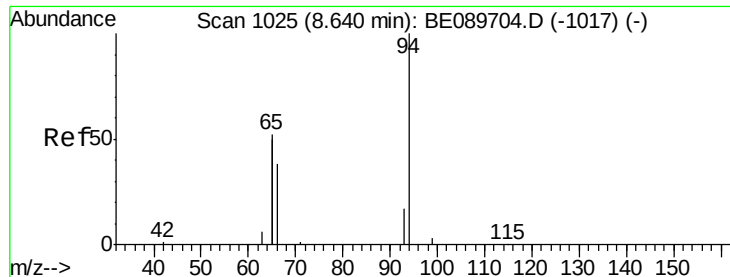
Delta R.T. -0.01 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	199478		
42	23.3	12.3	18.5#	
71	35.4	22.9	34.3#	





#5

Phenol

Concen: 10.25 ng

RT: 8.63 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

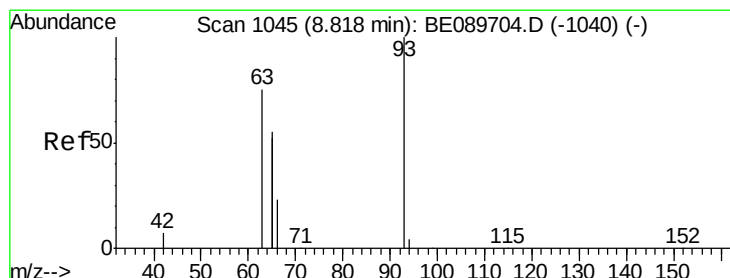
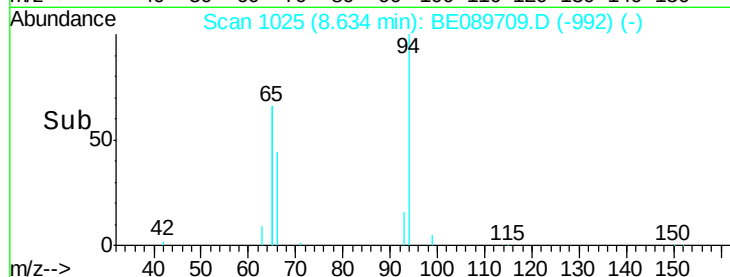
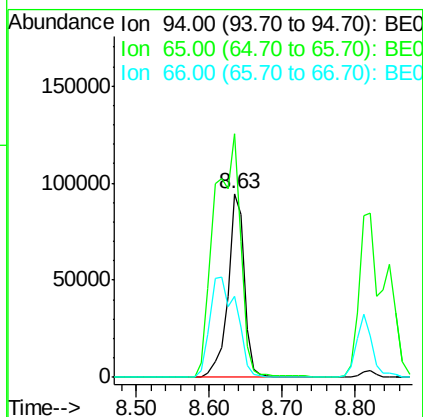
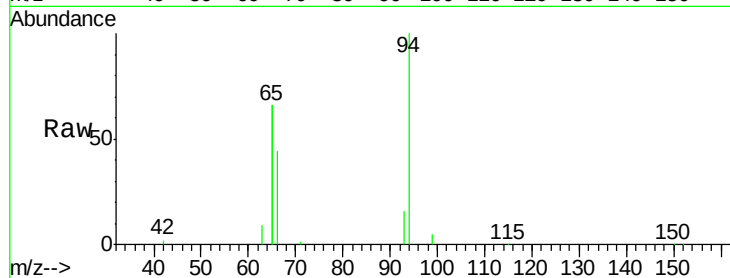
ClientSampleId :

PB81904BS

Tgt Ion:	94	Resp:	148313
Ion Ratio	Lower	Upper	
94	100		
65	132.6	31.7	71.7#
66	44.1	17.9	57.9

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#6

bis(2-Chloroethyl)ether

Concen: 10.53 ng

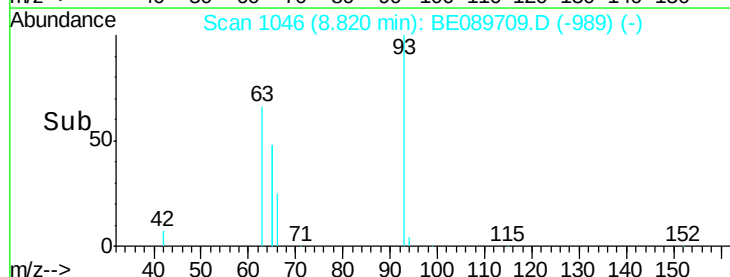
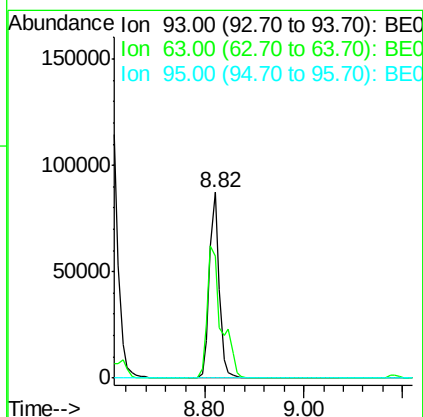
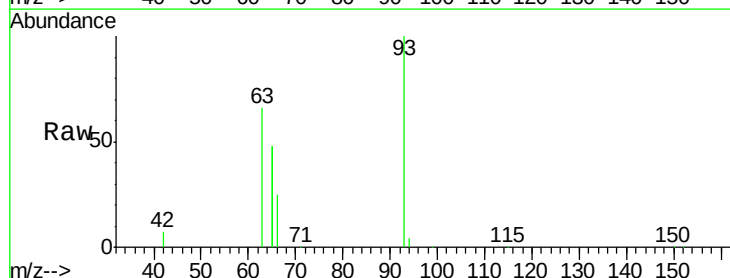
RT: 8.82 min Scan# 1046

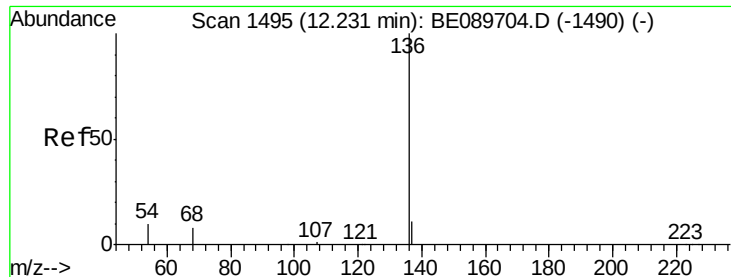
Delta R.T. 0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Tgt Ion:	93	Resp:	119447
Ion Ratio	Lower	Upper	
93	100		
63	103.5	83.8	125.8
95	0.0	0.0	0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.23 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

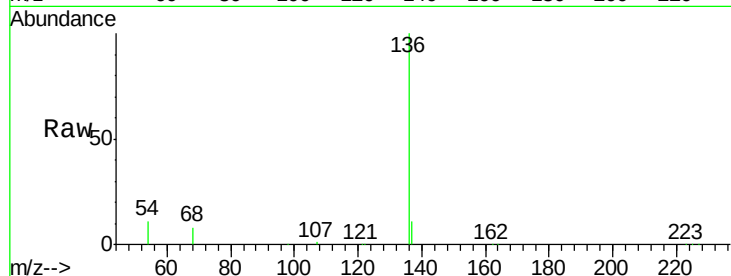
ClientSampleId :

PB81904BS

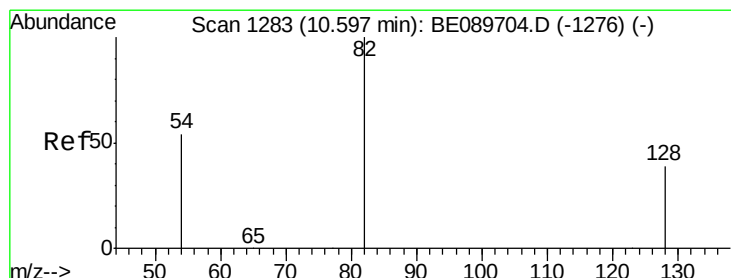
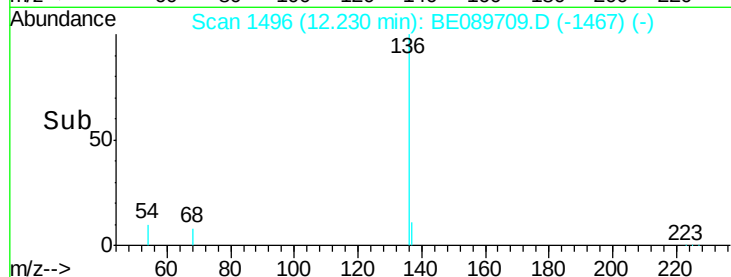
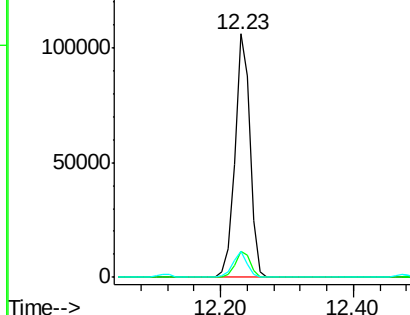
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	167233		
137	10.8	8.6	13.0	
54	10.5	8.1	12.1	

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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



#8

Nitrobenzene-d5

Concen: 10.35 ng

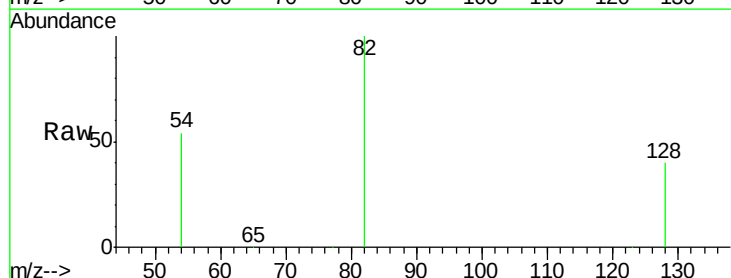
RT: 10.60 min Scan# 1284

Delta R.T. 0.00 min

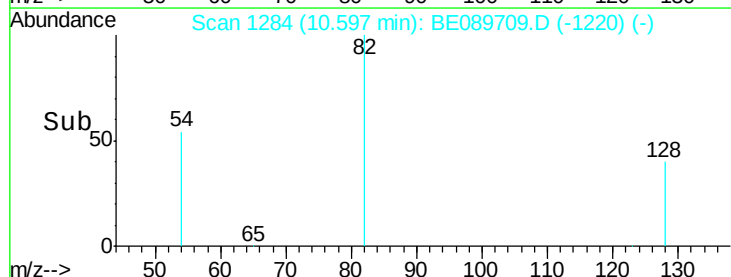
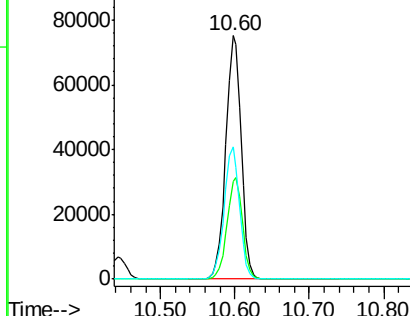
Lab File: BE089709.D

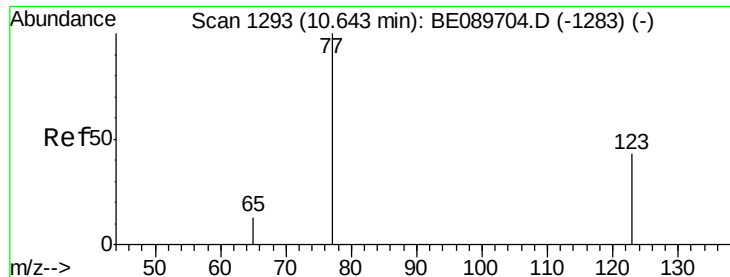
Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	107386		
128	40.3	31.4	47.2	
54	54.5	43.8	65.8	



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

Nitrobenzene

Concen: 12.25 ng

RT: 10.64 min Scan# 1294

Delta R.T. 0.00 min

Lab File: BE089709.D

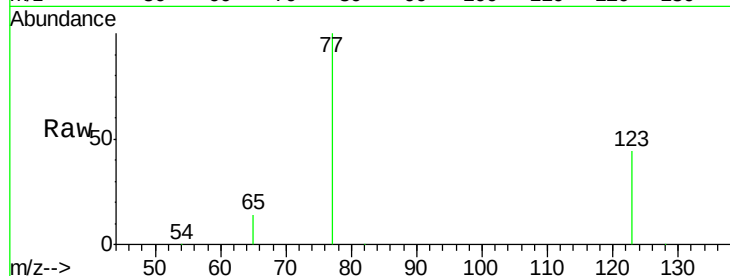
Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampled :

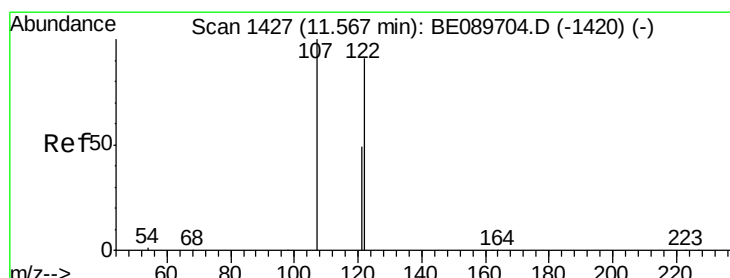
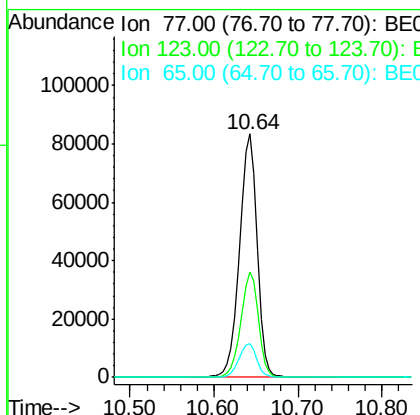
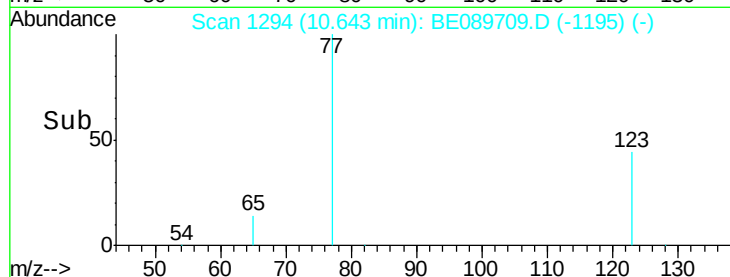
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Tgt Ion	Ratio	Lower	Upper
77	100		
123	43.2	33.2	49.8
65	14.0	10.6	15.8

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#10

2,4-Dimethylphenol

Concen: 10.83 ng

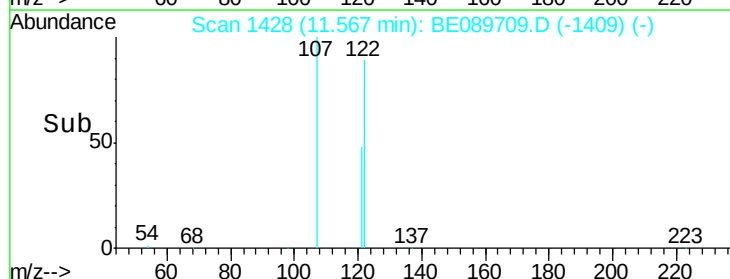
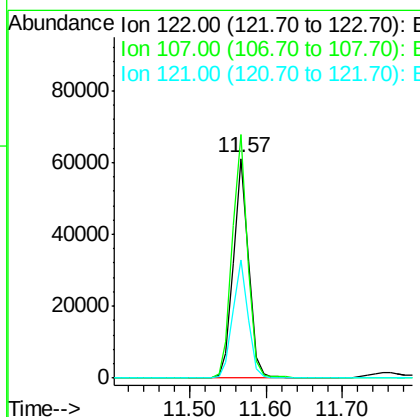
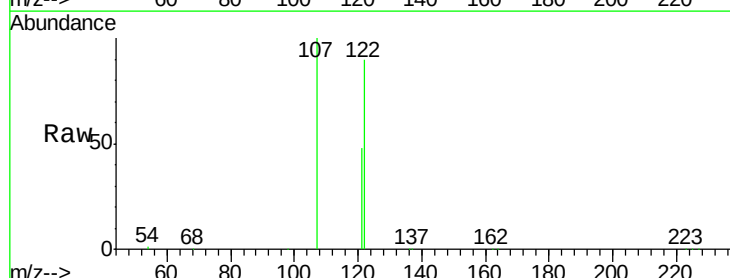
RT: 11.57 min Scan# 1428

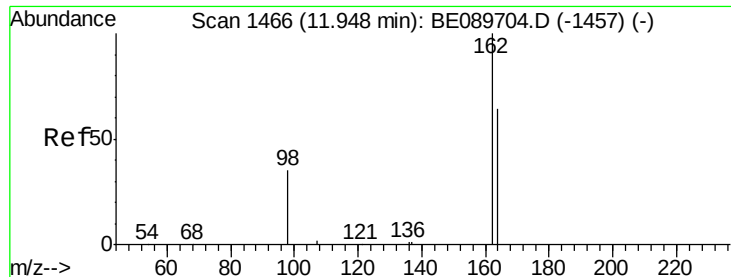
Delta R.T. -0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Lower	Upper
122	100		
107	110.8	87.6	131.4
121	53.6	43.4	65.2





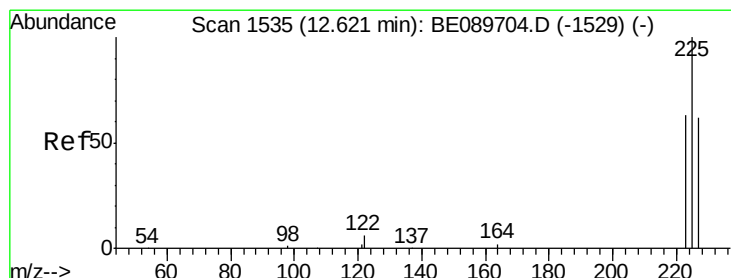
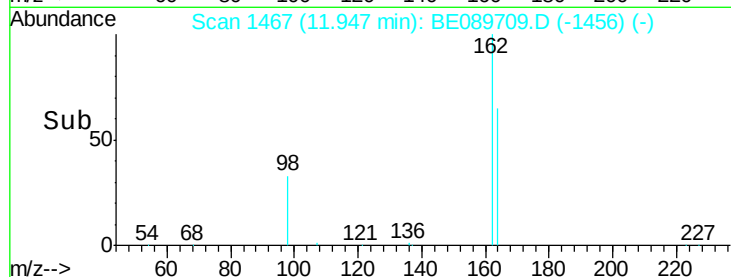
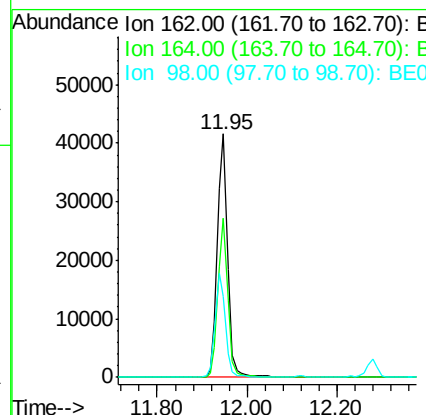
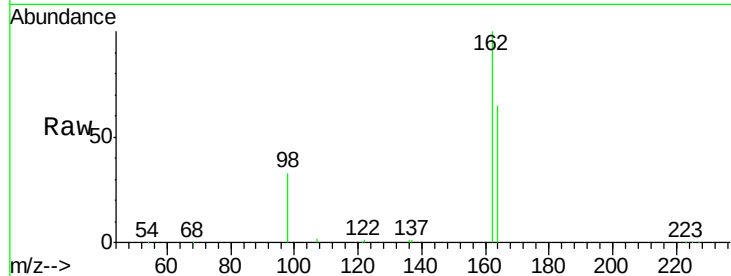
#11
2,4-Dichlorophenol
Concen: 11.61 ng
RT: 11.95 min Scan# 1467
Delta R.T. -0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Instrument :
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ClientSampled :
PB81904BS

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	65091		
164	65.1	43.9	83.9	
98	33.5	15.7	55.7	

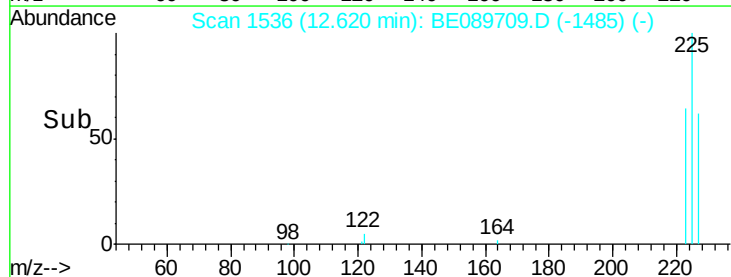
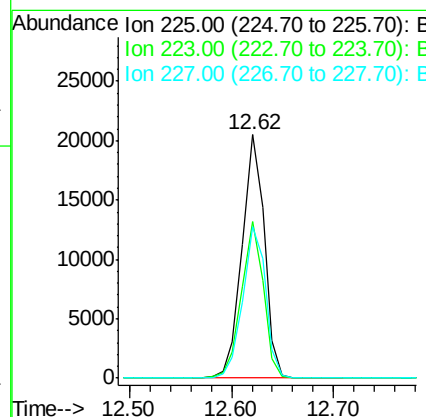
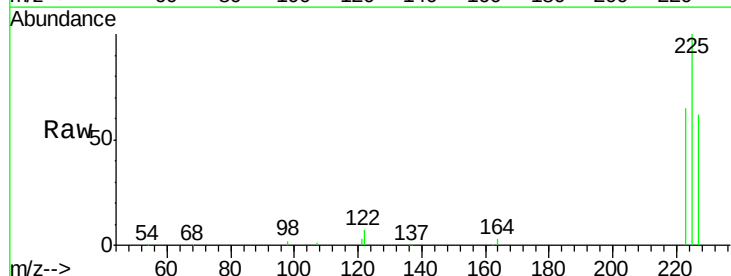
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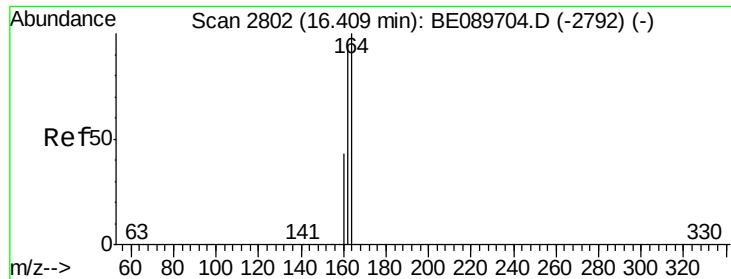
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#12
Hexachlorobutadiene
Concen: 9.75 ng
RT: 12.62 min Scan# 1536
Delta R.T. -0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	31034		
223	63.1	50.6	75.8	
227	63.7	50.8	76.2	





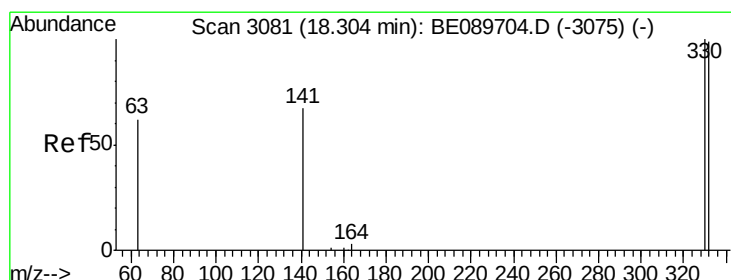
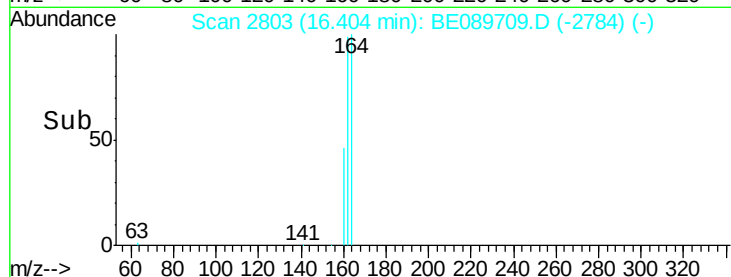
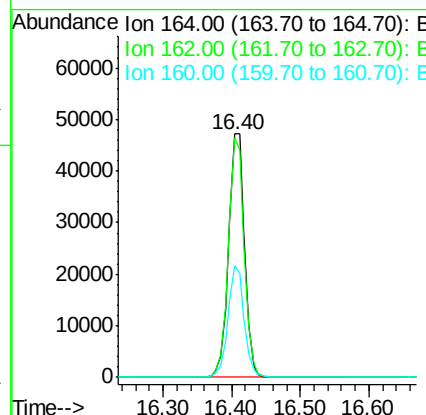
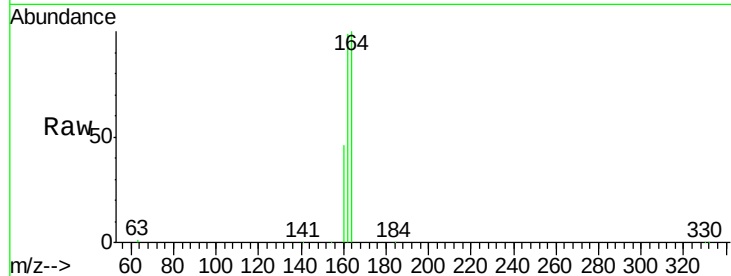
#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.40 min Scan# 2803
Delta R.T. -0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Instrument :
BNA_E
ClientSampleId :
PB81904BS

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.5	75.0	112.6
160	46.0	34.3	51.5

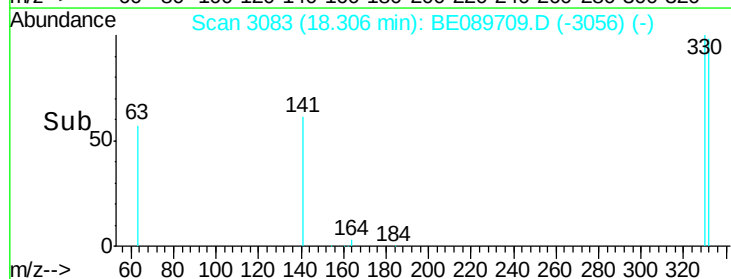
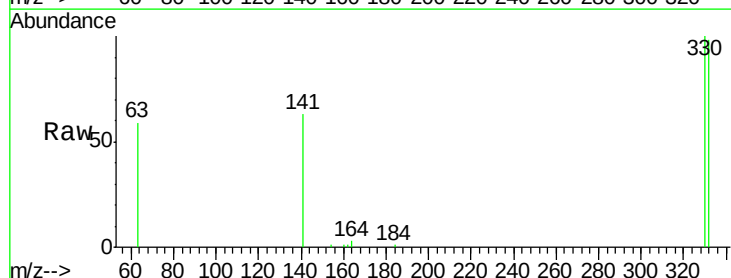
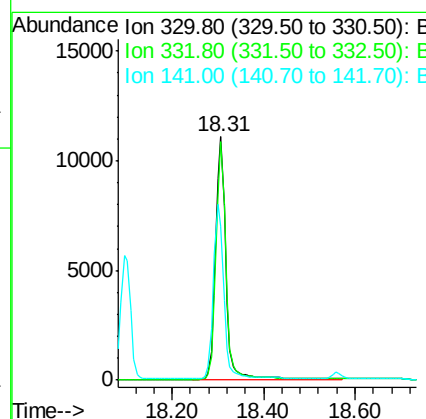
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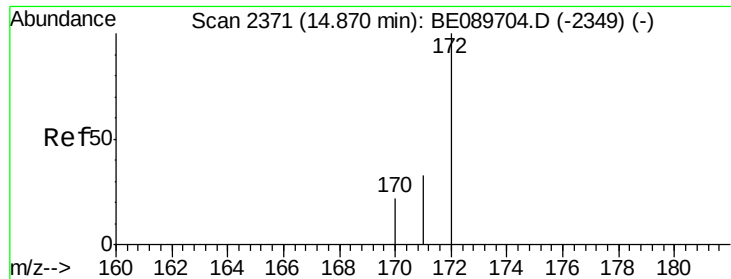
apatel
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#14
2,4,6-Tribromophenol
Concen: 13.29 ng
RT: 18.31 min Scan# 3083
Delta R.T. 0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	0.0	0.0#
141	72.7	0.0	0.0#





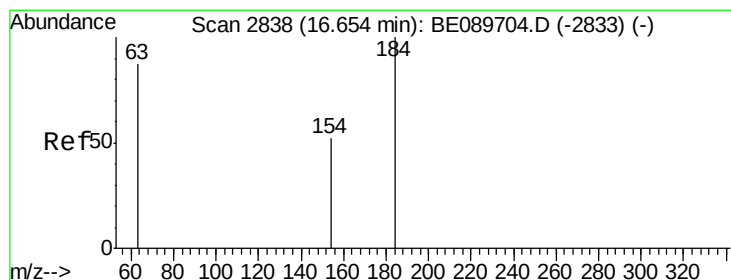
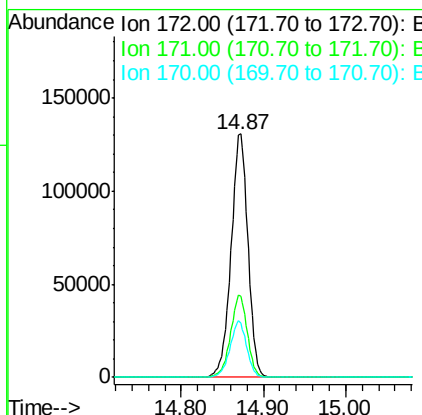
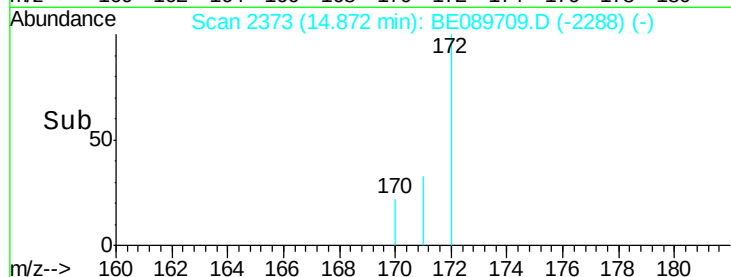
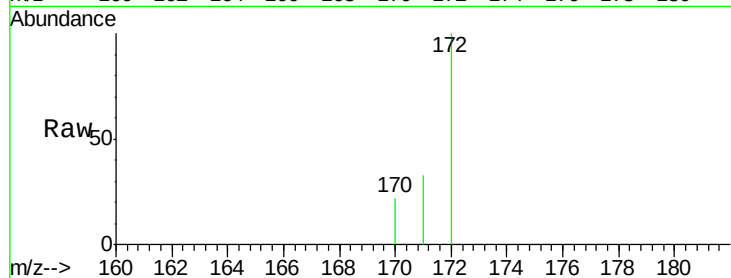
#15
2-Fluorobiphenyl
Concen: 10.99 ng
RT: 14.87 min Scan# 2373
Delta R.T. 0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Instrument :
BNA_E
ClientSampleId :
PB81904BS

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.3	26.8	40.2
170	22.2	18.0	27.0

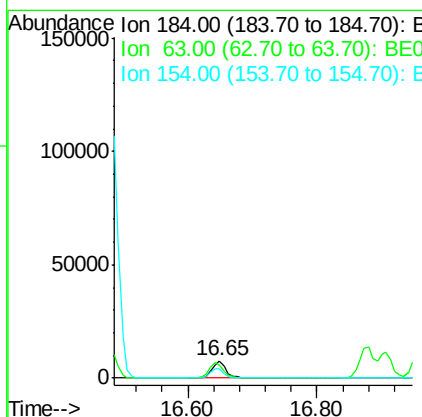
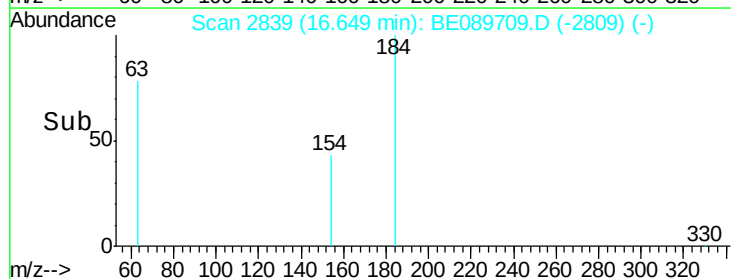
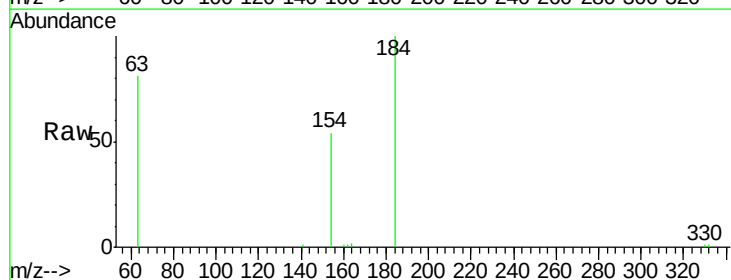
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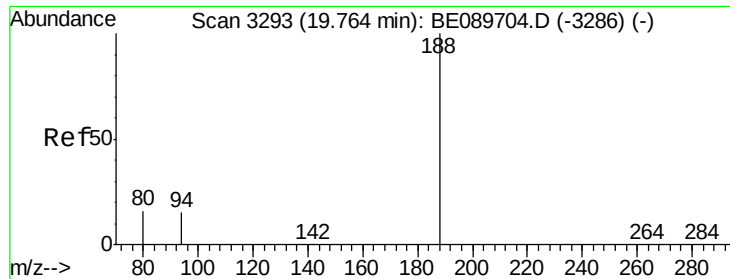
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#16
2,4-Dinitrophenol
Concen: 14.21 ng
RT: 16.65 min Scan# 2839
Delta R.T. -0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Lower	Upper
184	100		
63	81.0	82.4	123.6#
154	54.3	61.4	92.2#





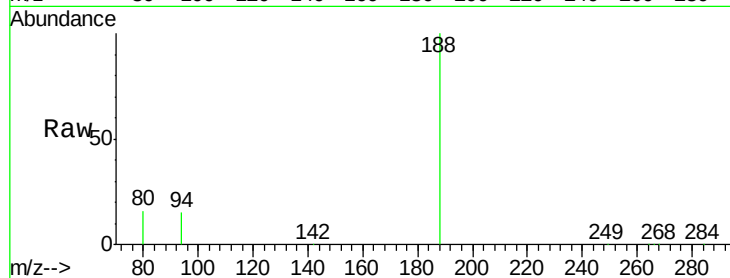
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3295
Delta R.T. 0.00 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Instrument :
BNA_E
ClientSampleId :
PB81904BS

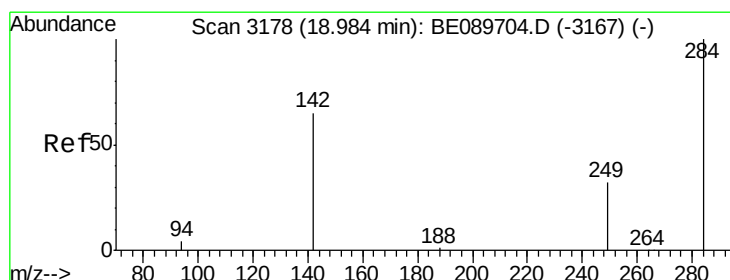
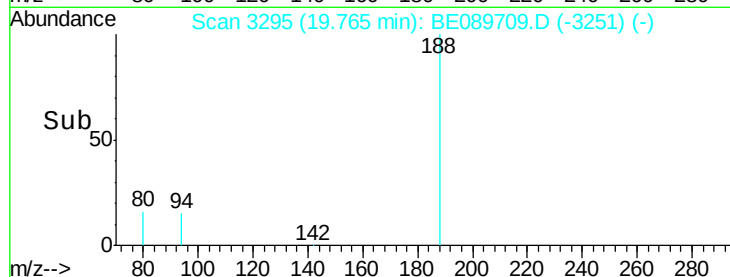
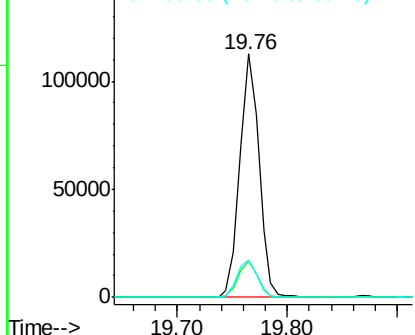
Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	14.7	12.1	18.1
80	15.7	12.7	19.1

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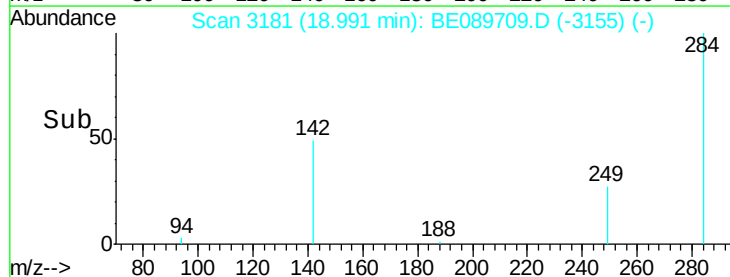
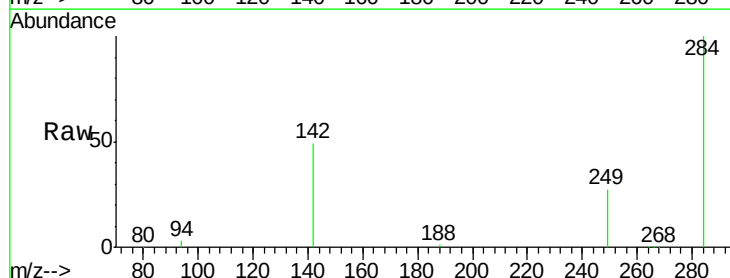
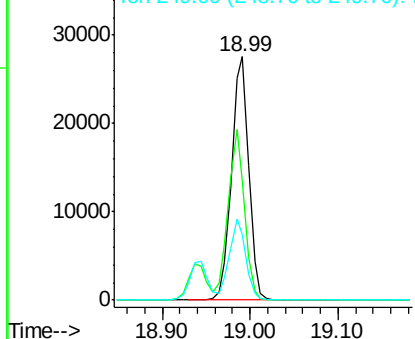
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

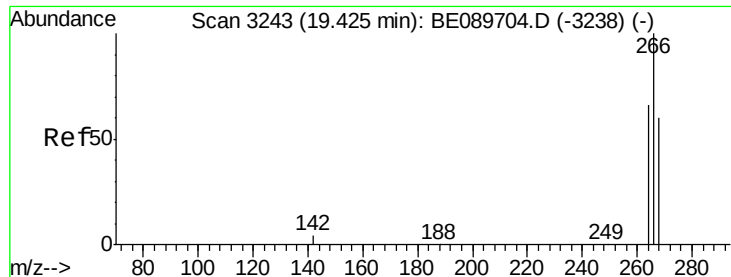


#18
Hexachlorobenzene
Concen: 10.49 ng
RT: 18.99 min Scan# 3181
Delta R.T. 0.01 min
Lab File: BE089709.D
Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp Lower	Upper
284	100		
142	49.1	52.2	78.4#
249	26.7	26.4	39.6

Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





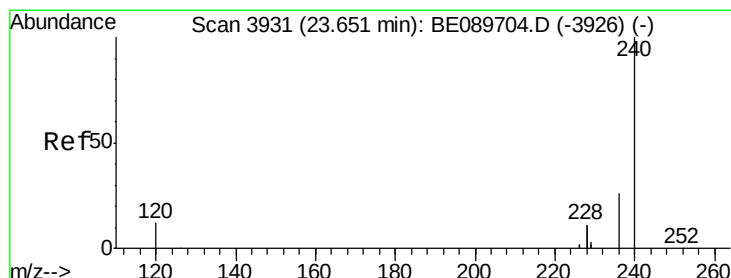
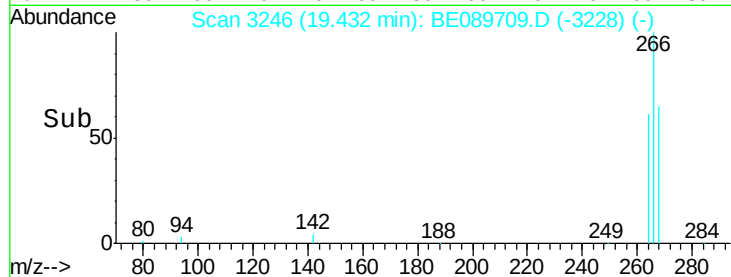
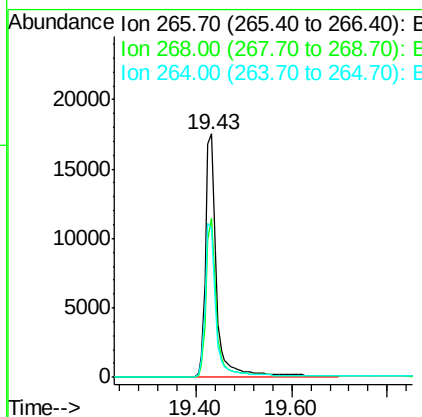
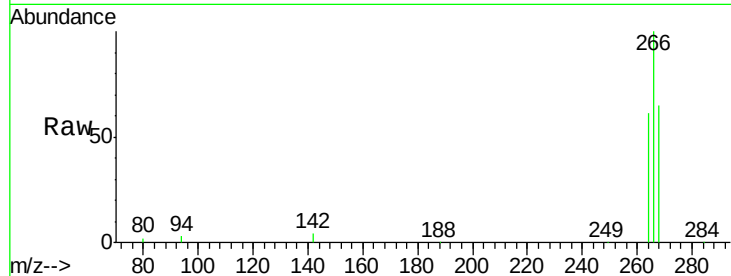
#19
 Pentachlorophenol
 Concen: 12.56 ng
 RT: 19.43 min Scan# 3246
 Delta R.T. 0.01 min
 Lab File: BE089709.D
 Acq: 27 Feb 2015 3:21

Instrument :
 BNA_E
 ClientSampleId :
 PB81904BS

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	27159		
268	65.3		51.4	77.2
264	61.1		55.8	83.8

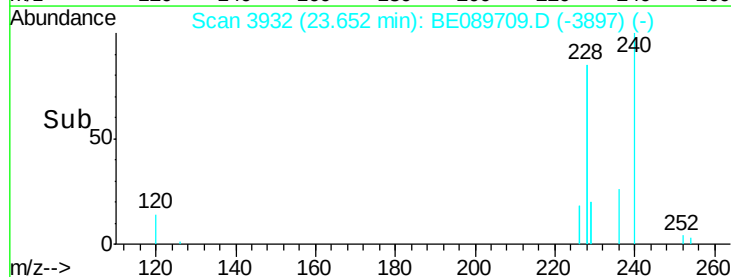
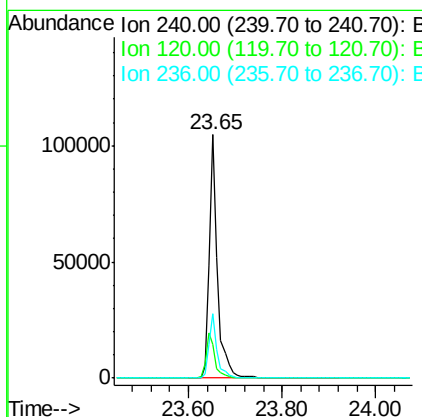
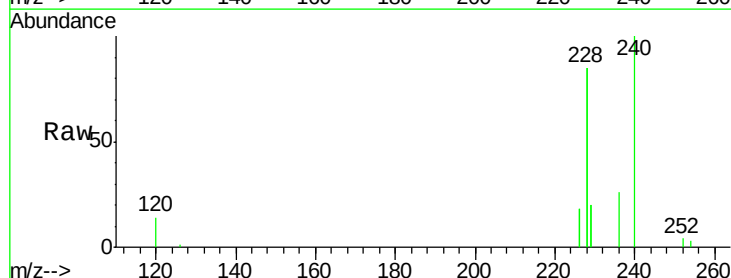
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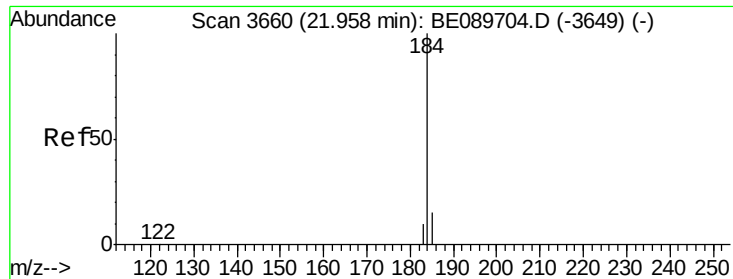
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#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.65 min Scan# 3932
 Delta R.T. 0.00 min
 Lab File: BE089709.D
 Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	129996		
120	13.8		9.9	14.9
236	26.5		21.0	31.6





#21

Benzidine

Concen: 16.88 ng

RT: 21.96 min Scan# 3661

Delta R.T. -0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

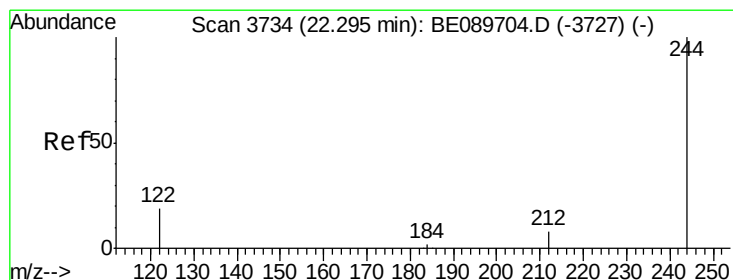
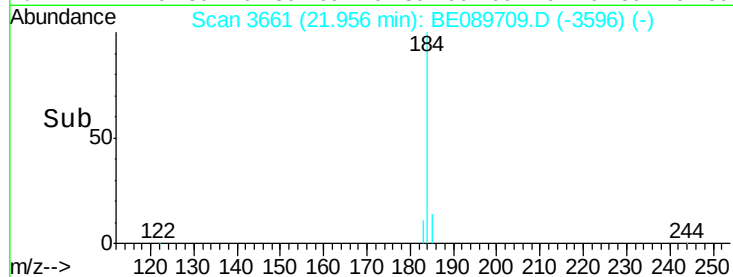
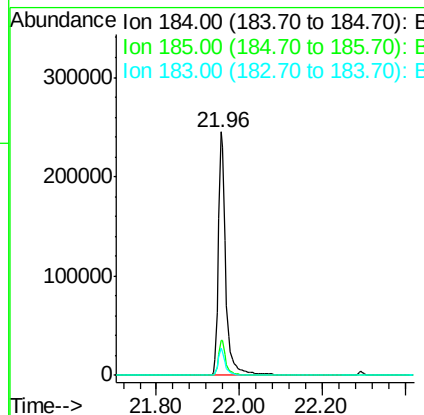
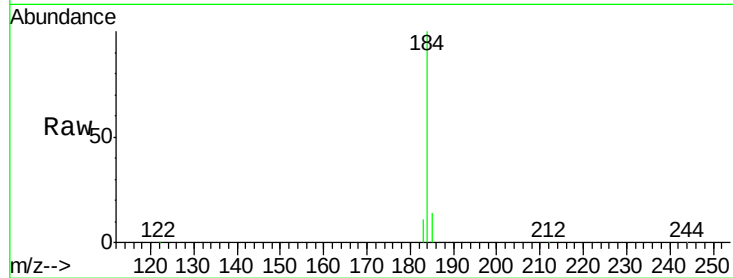
ClientSampleId :

PB81904BS

Tgt Ion:	184	Resp:	298535
Ion Ratio	Lower	Upper	
184	100		
185	14.1	12.8	19.2
183	11.1	8.8	13.2

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#22

Terphenyl-d14

Concen: 11.15 ng

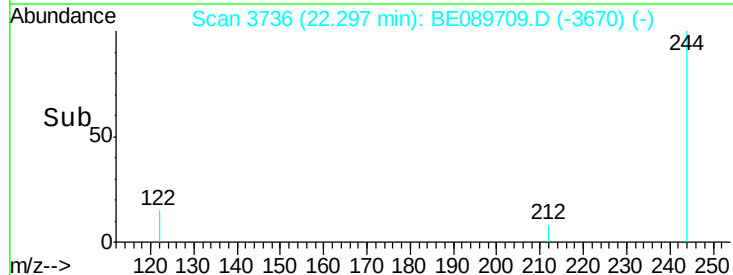
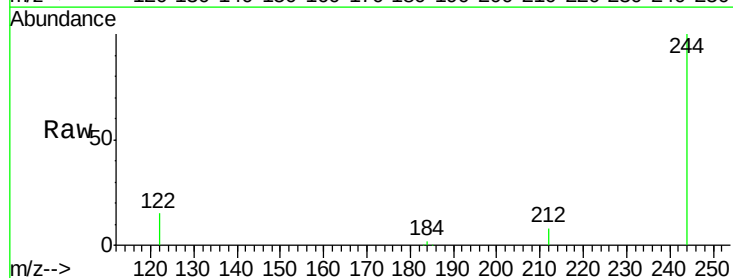
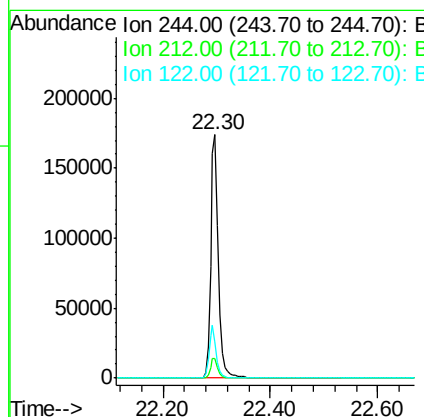
RT: 22.30 min Scan# 3736

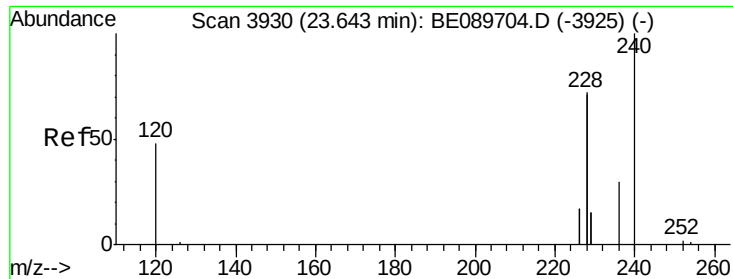
Delta R.T. 0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Tgt Ion:	244	Resp:	175663
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.7	10.1
122	15.0	15.7	23.5#





#23

Benzo(a)anthracene

Concen: 11.52 ng

RT: 23.64 min Scan# 3930

Delta R.T. -0.01 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampled :

PB81904BS

Tgt Ion:228 Resp: 1064607

Ion Ratio Lower Upper

228 100

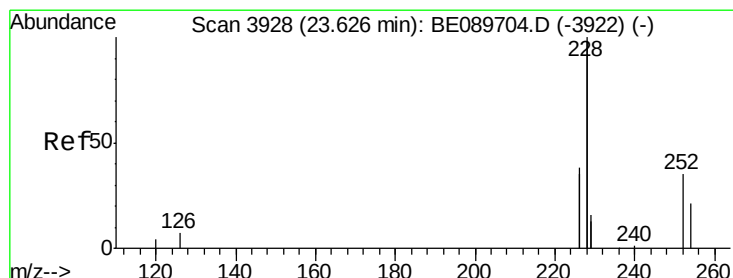
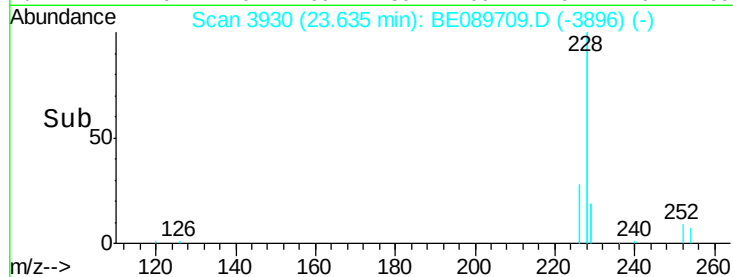
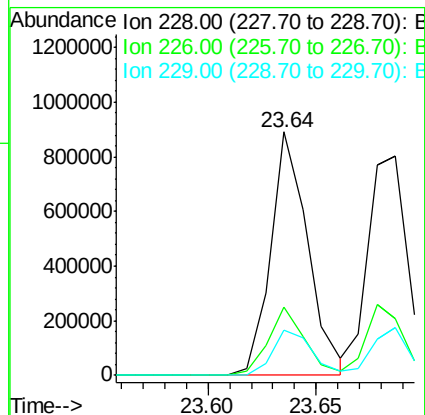
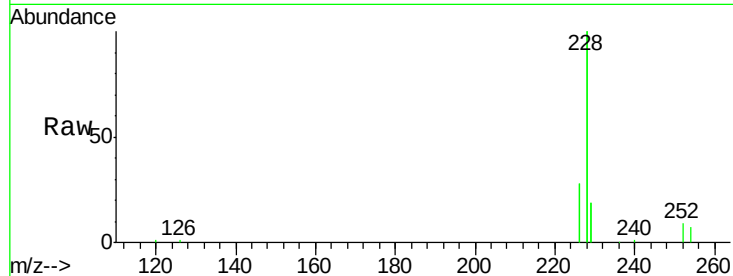
226 28.0 19.3 28.9

229 18.6 16.6 25.0

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#24

3,3'-Dichlorobenzidine

Concen: 10.06 ng

RT: 23.63 min Scan# 3929

Delta R.T. 0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

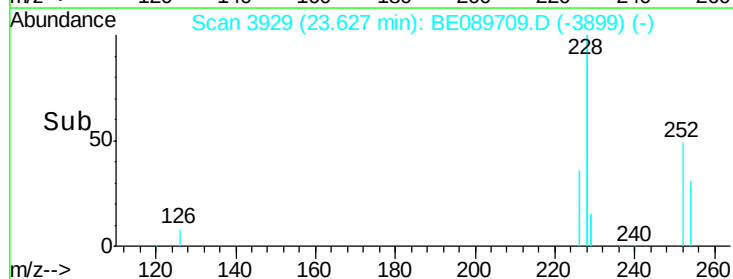
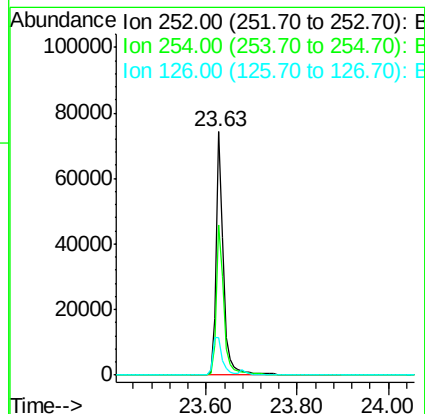
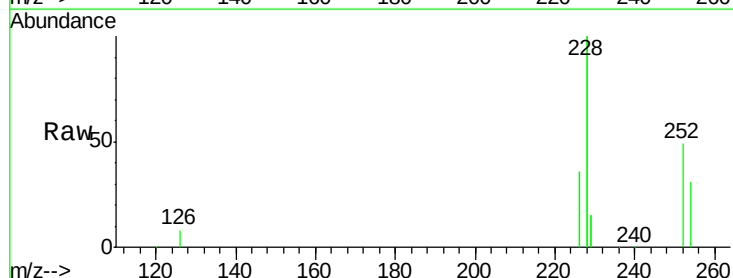
Tgt Ion:252 Resp: 84255

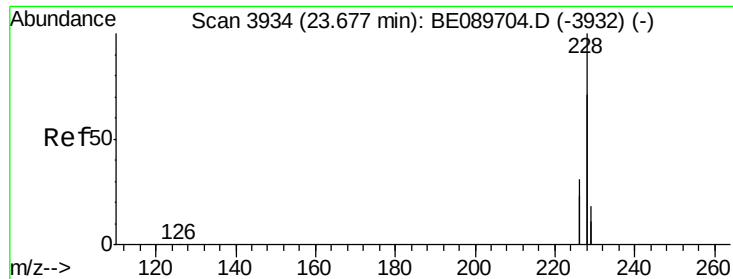
Ion Ratio Lower Upper

252 100

254 61.8 49.4 74.2

126 15.4 17.4 26.2#





#25

Chrysene

Concen: 9.75 ng m

RT: 23.69 min Scan# 3936

Delta R.T. 0.01 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampleId :

PB81904BS

Tgt Ion:228 Resp: 1108317

Ion Ratio Lower Upper

228 100

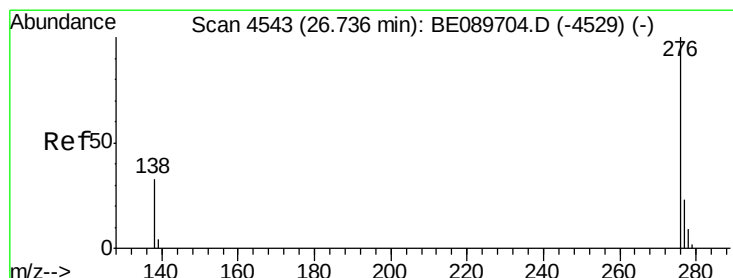
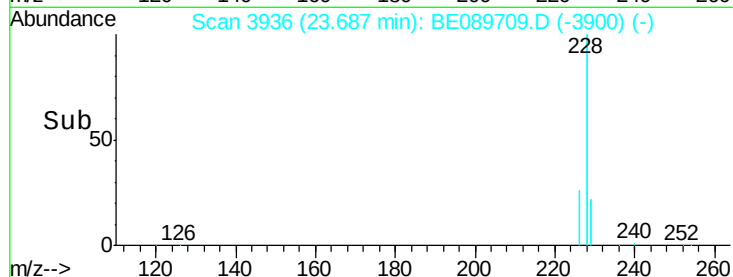
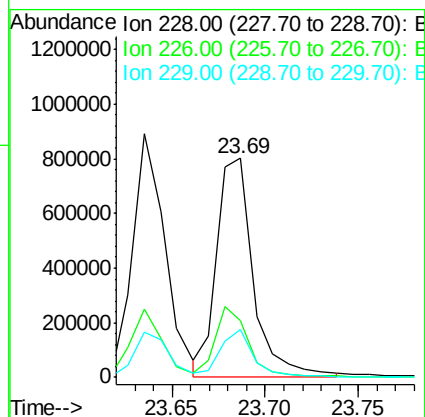
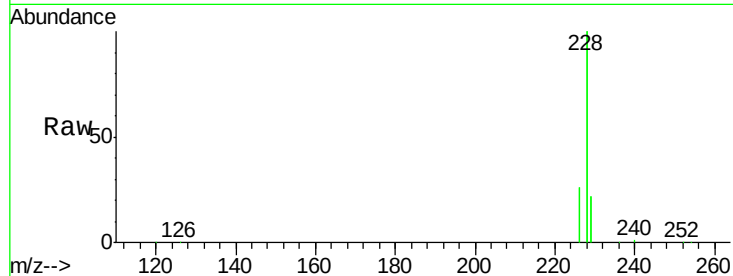
226 25.8 24.7 37.1

229 21.7 14.4 21.6#

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#26

Indeno(1,2,3-cd)pyrene

Concen: 9.79 ng

RT: 26.74 min Scan# 4546

Delta R.T. 0.01 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

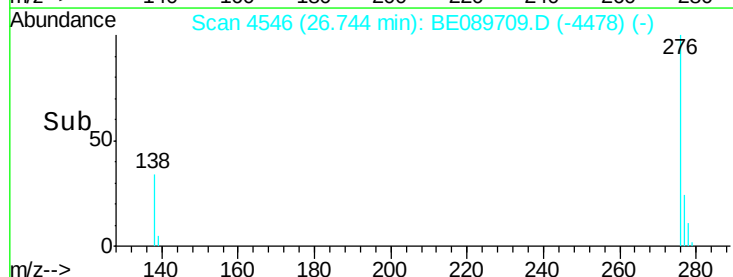
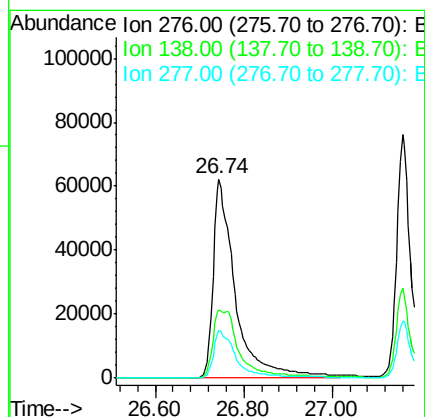
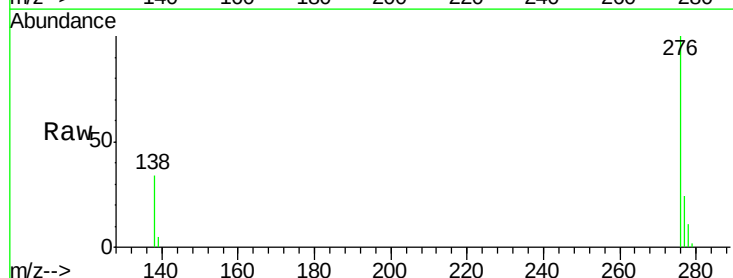
Tgt Ion:276 Resp: 217776

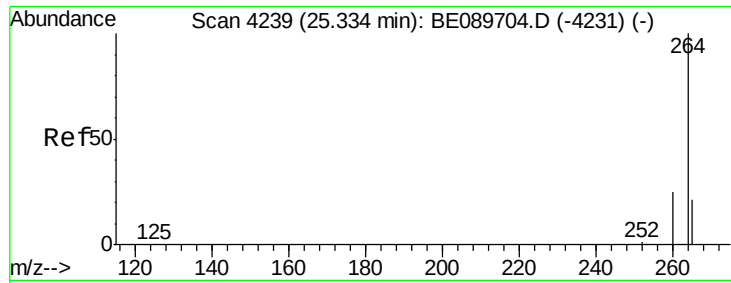
Ion Ratio Lower Upper

276 100

138 16.0 29.8 44.6#

277 25.1 19.8 29.6





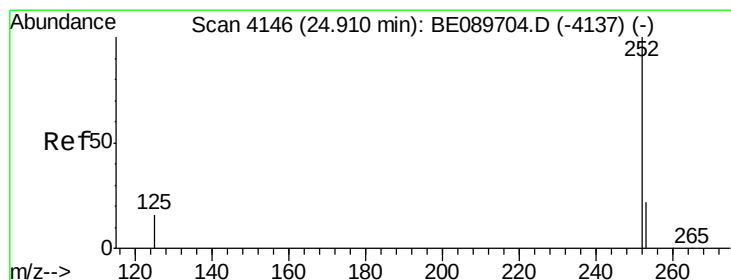
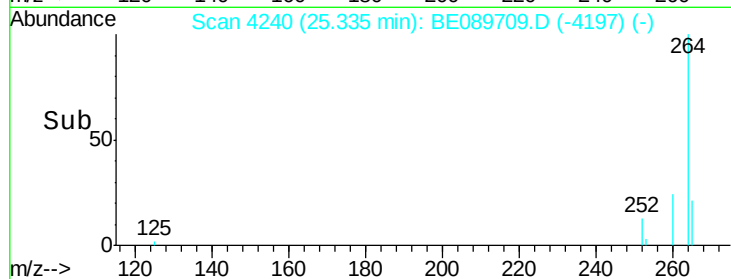
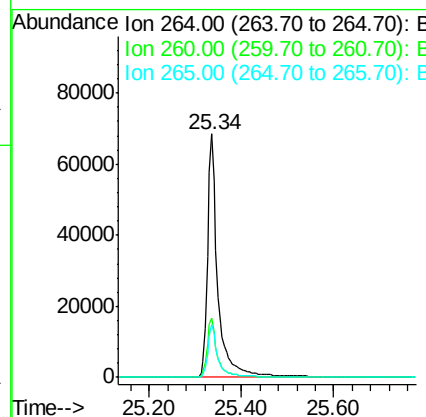
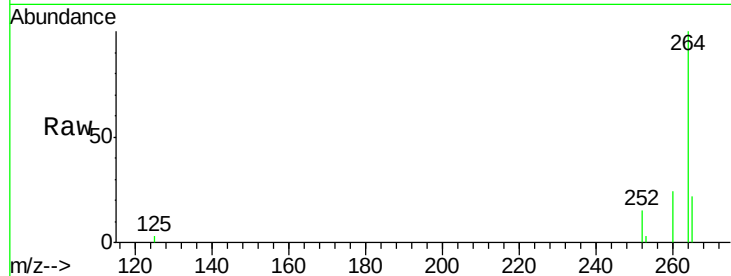
#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4240
 Delta R.T. 0.00 min
 Lab File: BE089709.D
 Acq: 27 Feb 2015 3:21

Instrument :
 BNA_E
 ClientSampleId :
 PB81904BS

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	105084		
260	24.3	20.2	30.2	
265	21.5	16.9	25.3	

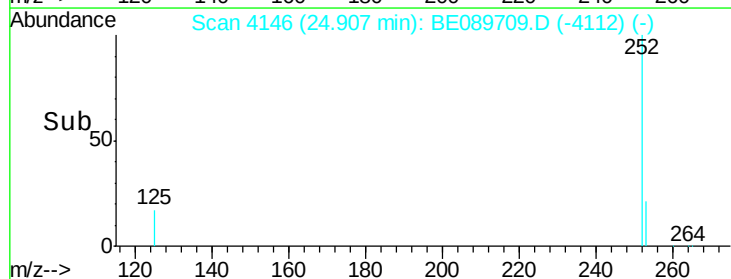
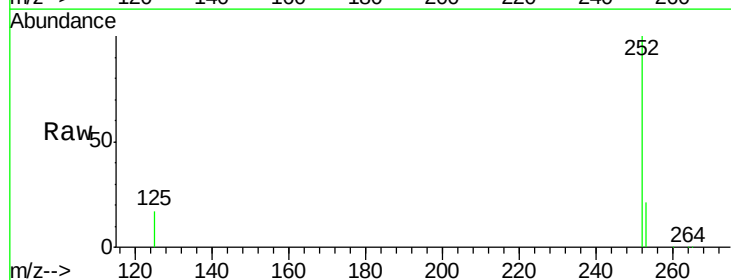
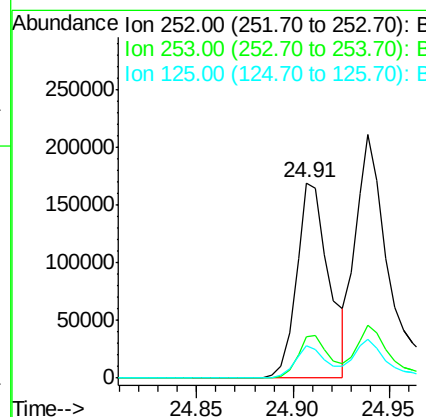
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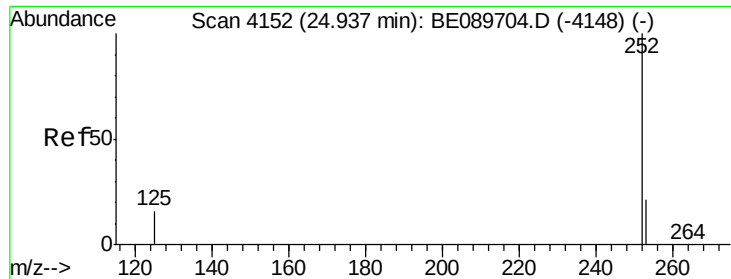
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#28
Benzo(b)fluoranthene
 Concen: 10.10 ng
 RT: 24.91 min Scan# 4146
 Delta R.T. -0.00 min
 Lab File: BE089709.D
 Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	197661		
253	21.2	17.8	26.6	
125	16.6	12.9	19.3	





#29

Benzo(k)fluoranthene

Concen: 9.87 ng

RT: 24.94 min Scan# 4153

Delta R.T. 0.00 min

Lab File: BE089709.D

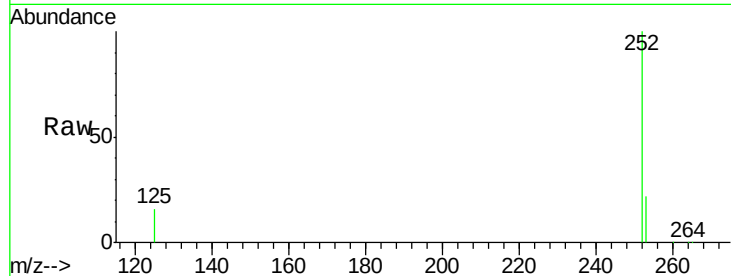
Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampleId :

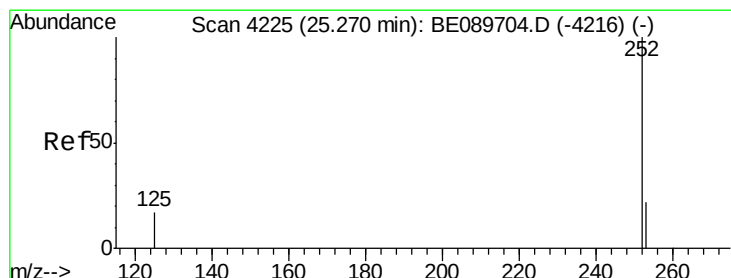
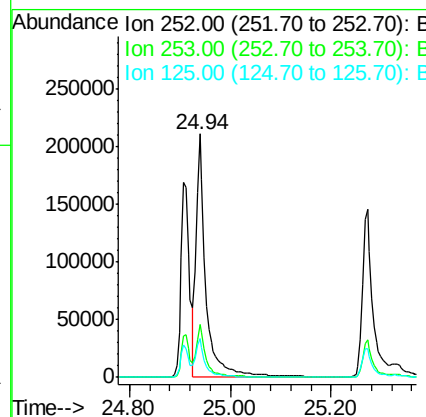
PB81904BS



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	16.1	12.9	19.3

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#30

Benzo(a)pyrene

Concen: 10.29 ng

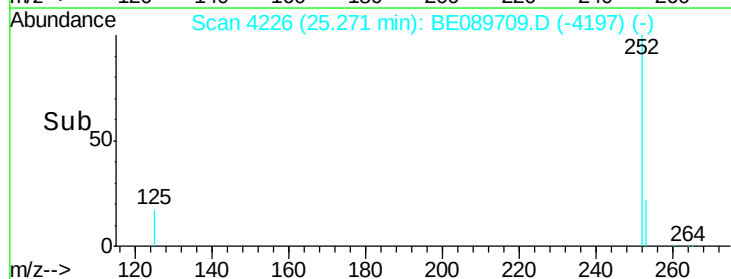
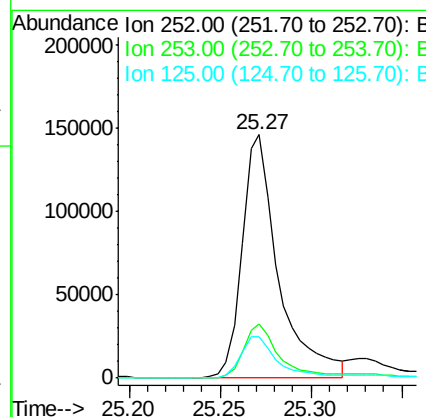
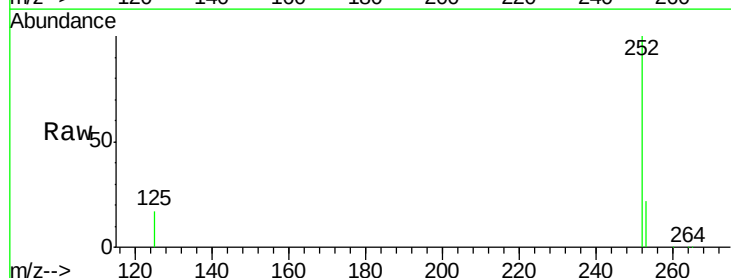
RT: 25.27 min Scan# 4226

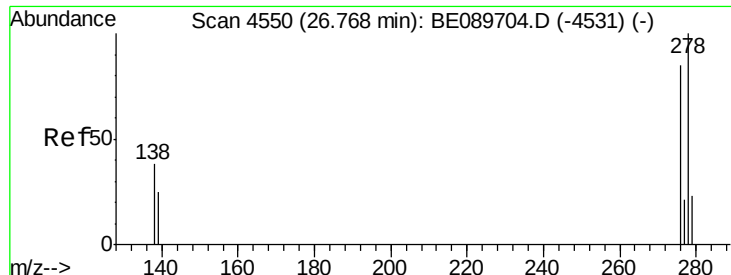
Delta R.T. 0.00 min

Lab File: BE089709.D

Acq: 27 Feb 2015 3:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	17.2	14.0	21.0





#31

Dibenzo(a,h)anthracene

Concen: 9.88 ng

RT: 26.77 min Scan# 4552

Delta R.T. 0.00 min

Lab File: BE089709.D

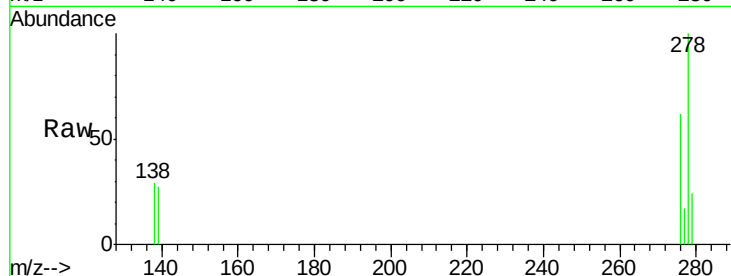
Acq: 27 Feb 2015 3:21

Instrument :

BNA_E

ClientSampleId :

PB81904BS



Tgt	Ion	Ratio	Lower	Upper
278	100			
139	26.9	21.1	31.7	
279	24.0	19.3	28.9	

Manual Integrations
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