

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
 Data File : BE090396.D
 Acq On : 7 Aug 2015 14:14
 Operator : TP/UM
 Sample : PB84854BS
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

Manual Integrations
 APPROVED

MMDadoda
 8/10/2015 7:10:59 PM

Quant Time: Aug 07 23:17:47 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 12:28:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	18223	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	81097	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	45494	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	104732	5.00	ng	0.00
25) Chrysene-d12	21.09	240	135680	5.00	ng	0.00
32) Perylene-d12	23.40	264	109431	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	25675	9.39	ng	0.00
5) Phenol-d6	6.76	99	45162	7.63	ng	-0.01
7) Nitrobenzene-d5	8.72	82	31382	4.76	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	9689	7.28	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	72850	5.82	ng	0.00
27) Terphenyl-d14	19.56	244	119674	5.99	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.20	88	11234	5.24	ng	99
3) n-Nitrosodimethylamine	3.49	42	14501	5.14	ng	99
8) Nitrobenzene	8.76	77	33409	4.74	ng	98
9) Naphthalene	10.38	128	89972	5.02	ng	98
10) Hexachlorobutadiene	10.68	225	15341	5.68	ng	100
11) 2-Methylnaphthalene	12.00	142	58014	5.59	ng	98
15) Acenaphthylene	13.91	152	414691	5.63	ng	100
16) Acenaphthene	14.26	154	62101	5.42	ng	93
17) Fluorene	15.26	166	85040	5.72	ng	98
19) 4-Bromophenyl-phenylether	16.14	248	22605	5.55	ng	91
20) Hexachlorobenzene	16.27	284	108532	5.16	ng	99
21) Pentachlorophenol	16.60	266	14673	8.46	ng	90
22) Phenanthrene	16.98	178	147645	5.63	ng	100
23) Anthracene	17.07	178	139017	6.46	ng	100
24) Fluoranthene	18.98	202	162117	6.29	ng	100
26) Pyrene	19.34	202	180920	6.15	ng	99
28) Benzo(a)anthracene	21.08	228	174316	5.80	ng	100
29) Chrysene	21.14	228	191134	5.26	ng	100
30) Bis(2-ethylhexyl)phthalate	21.03	149	45072	4.37	ng	99
31) Indeno(1,2,3-cd)pyrene	25.79	276	144099	4.42	ng	95
33) Benzo(b)fluoranthene	22.70	252	146142	5.87	ng	98
34) Benzo(k)fluoranthene	22.75	252	175174m	5.75	ng	
35) Benzo(a)pyrene	23.30	252	129503	5.51	ng	100
36) Dibenzo(a,h)anthracene	25.80	278	115675	5.04	ng	97
37) Benzo(g,h,i)perylene	26.52	276	127704	6.32	ng	98

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

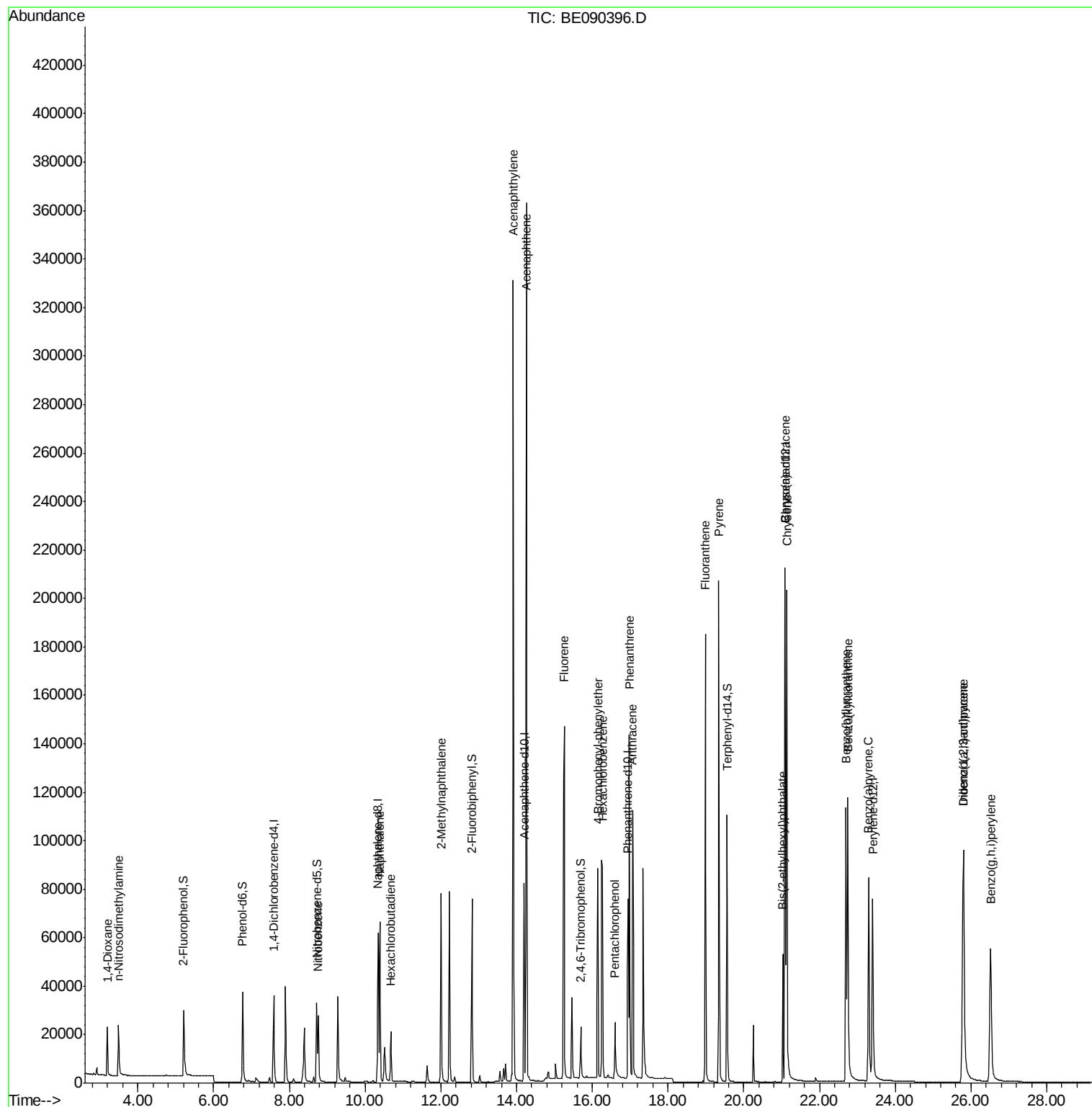
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
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Manual Integrations
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Quant Time: Aug 07 23:17:47 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

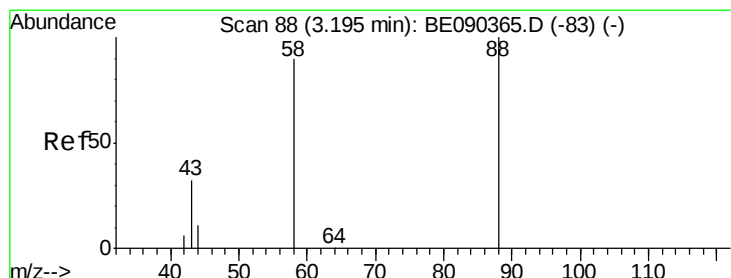
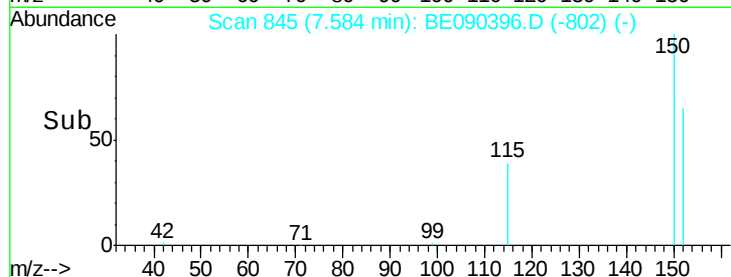
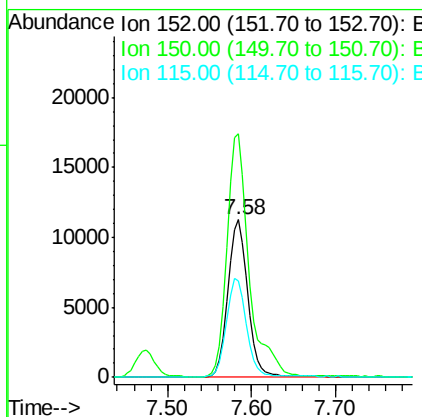
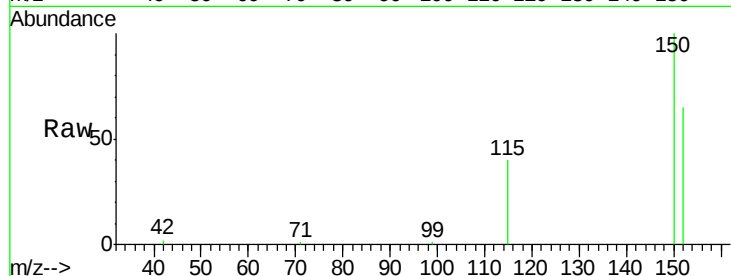
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.58 min Scan# 845
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	123.0	184.4
115	61.1	48.9	73.3

Manual Integrations
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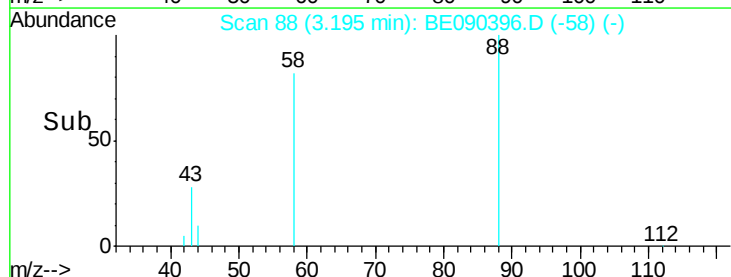
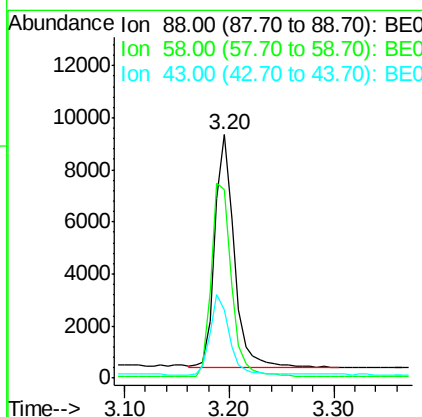
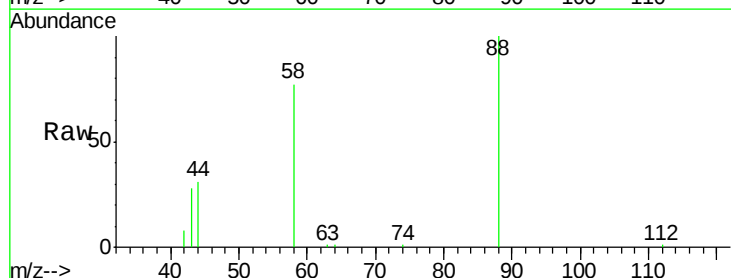
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#2

1,4-Dioxane
Concen: 5.24 ng
RT: 3.20 min Scan# 88
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	88.2	70.0	105.0
43	34.2	28.4	42.6





#3

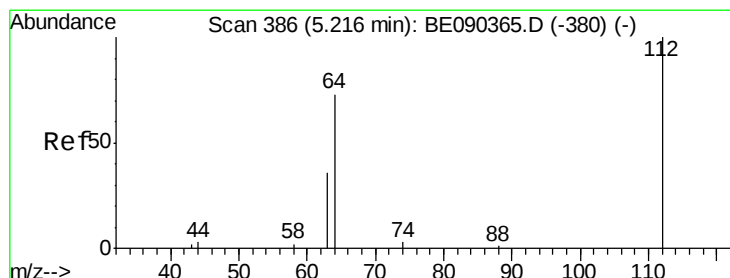
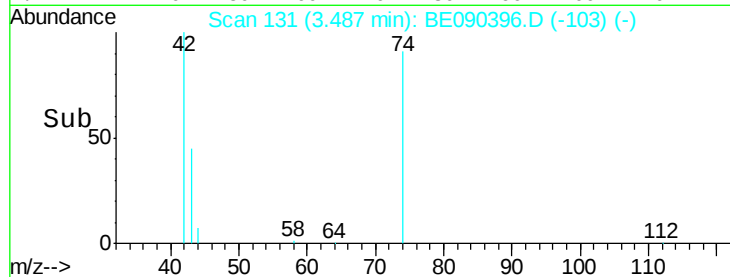
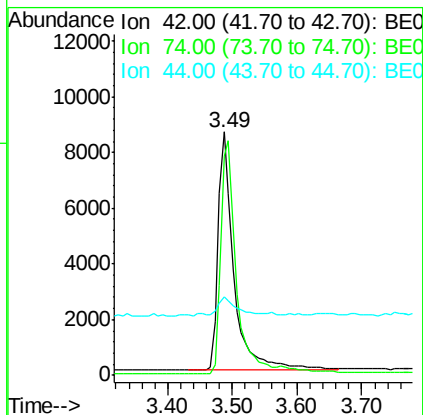
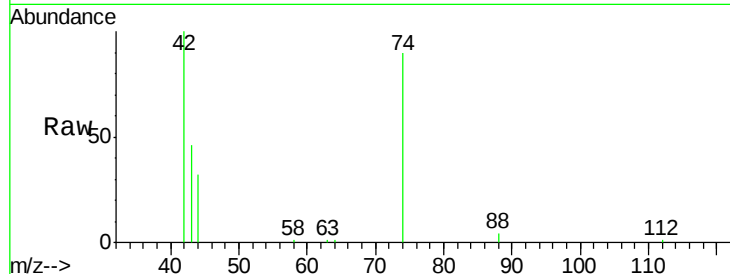
n-Nitrosodimethylamine
 Concen: 5.14 ng
 RT: 3.49 min Scan# 131
 Delta R.T. -0.01 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

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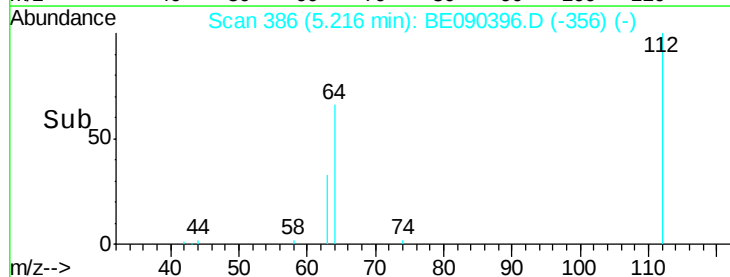
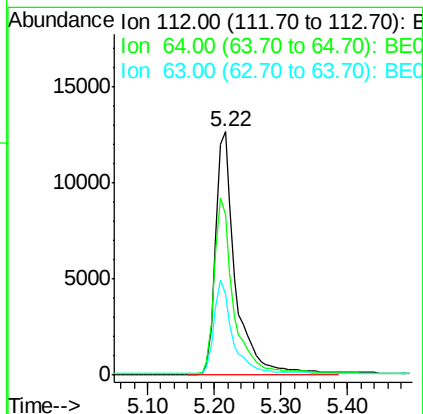
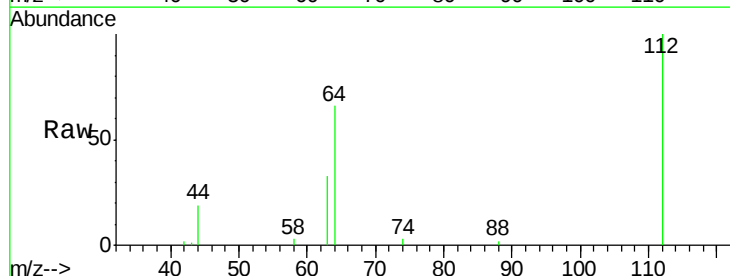
Tot Ion	Ratio	Lower	Upper
42	100		
74	93.5	75.2	112.8
44	10.4	8.7	13.1



#4

2-Fluorophenol
 Concen: 9.39 ng
 RT: 5.22 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.1	37.1	55.7#
63	37.2	19.5	29.3#





#5

Phenol-d6

Concen: 7.63 ng

RT: 6.76 min Scan# 665

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA_E

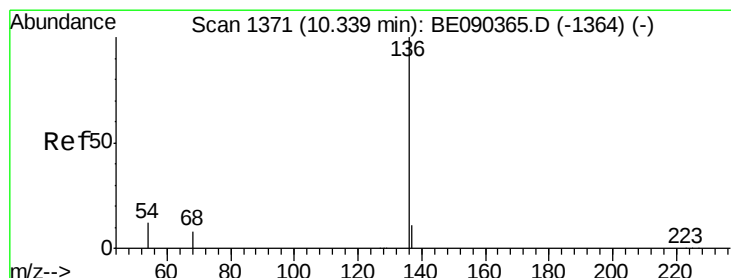
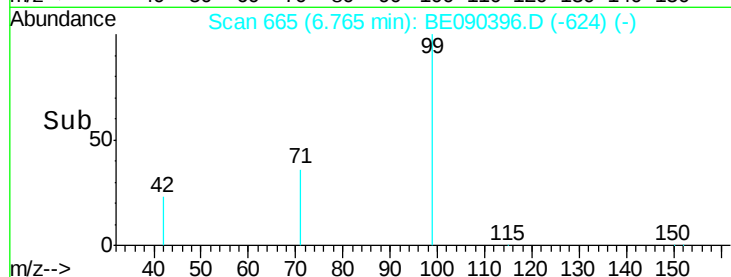
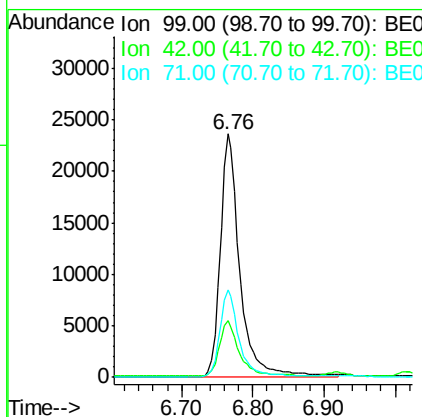
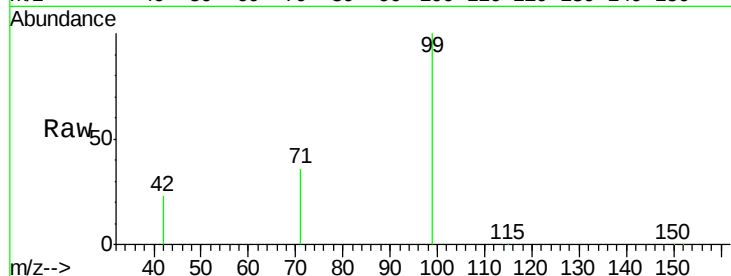
ClientSampleId :

PB84854BS

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Tot Ion:	99	Resp:	45162
Ion	Ratio	Lower	Upper
99	100		
42	23.4	18.2	27.4
71	35.3	27.4	41.0



#6

Naphthalene-d8

Concen: 5.00 ng

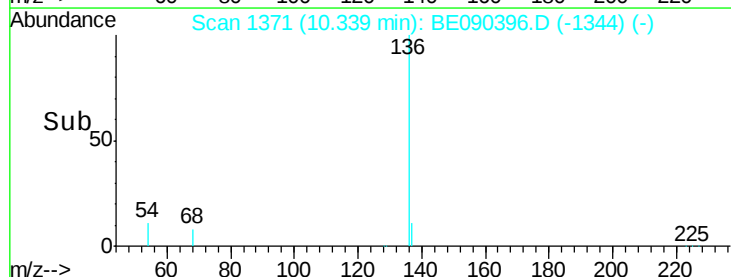
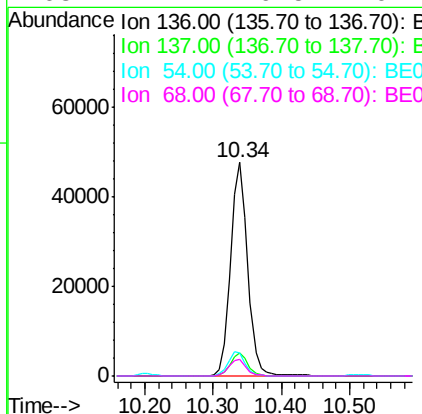
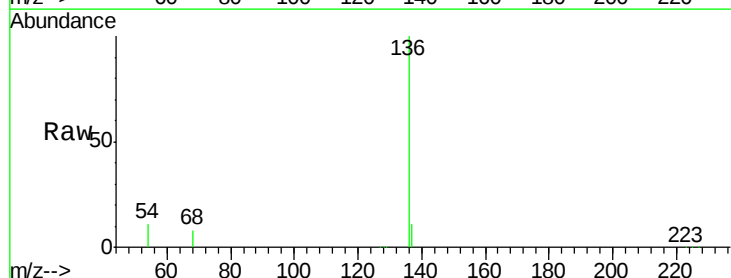
RT: 10.34 min Scan# 1371

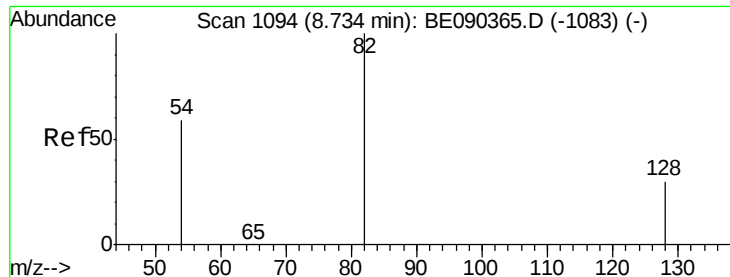
Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion:	136	Resp:	81097
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	10.7	9.4	14.0
68	7.7	6.5	9.7





#7

Nitrobenzene-d5

Concen: 4.76 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA_E

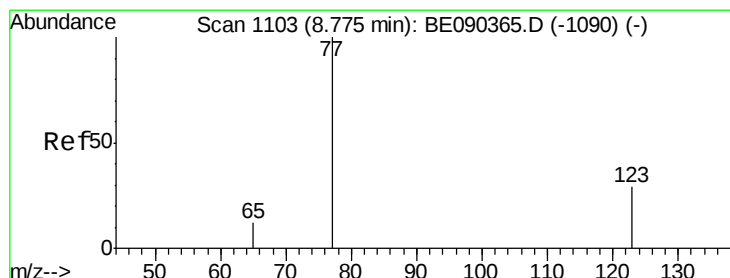
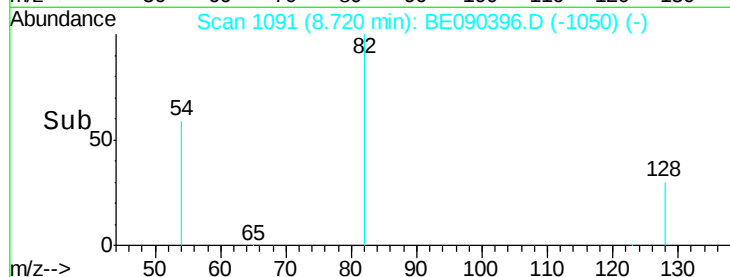
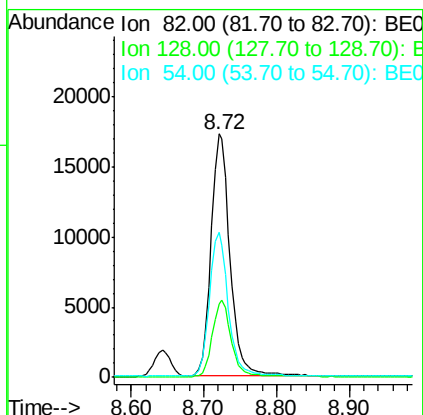
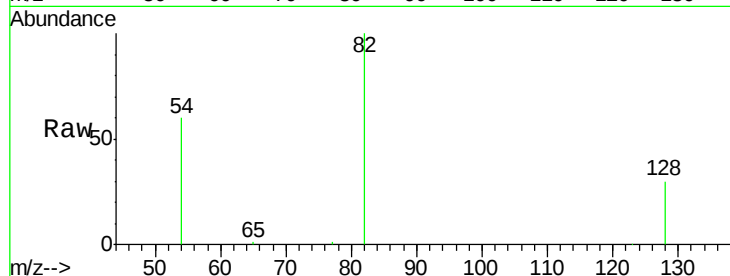
ClientSampleId :

PB84854BS

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Tot Ion	82	Resp	31382
Ion	Ratio	Lower	Upper
82	100		
128	30.0	25.0	37.6
54	59.7	48.8	73.2



#8

Nitrobenzene

Concen: 4.74 ng

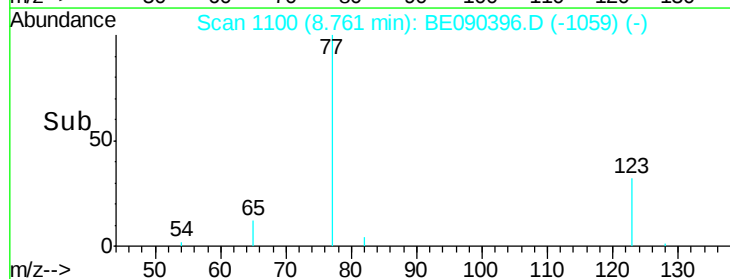
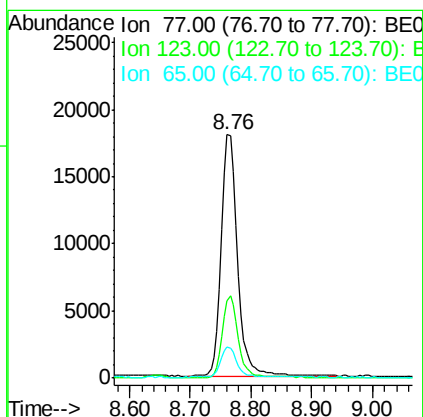
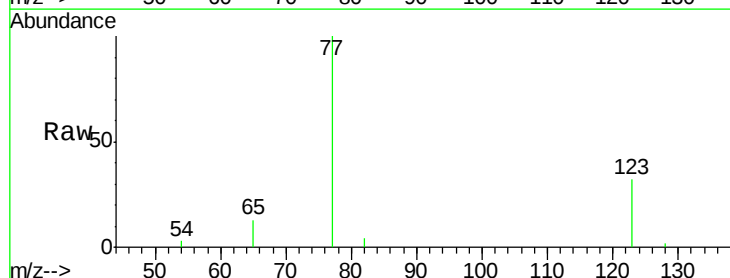
RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion	77	Resp	33409
Ion	Ratio	Lower	Upper
77	100		
123	32.8	25.1	37.7
65	12.3	9.3	13.9





#9

Naphthalene

Concen: 5.02 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA_E

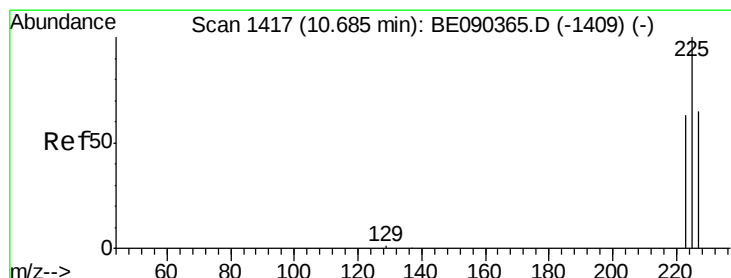
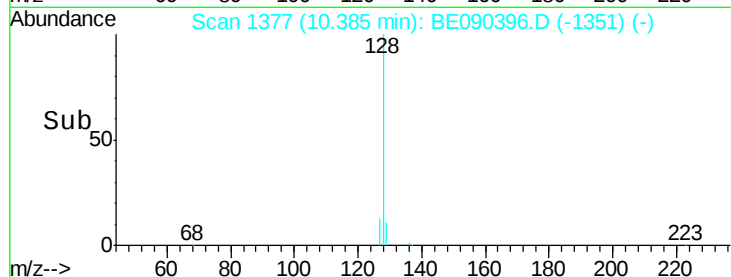
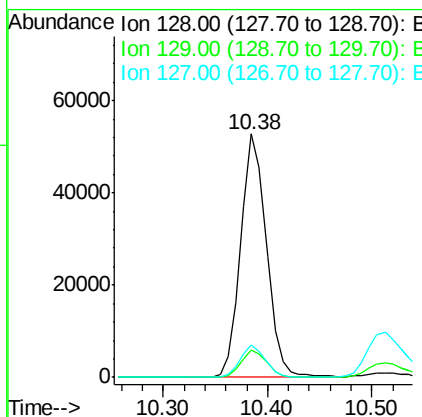
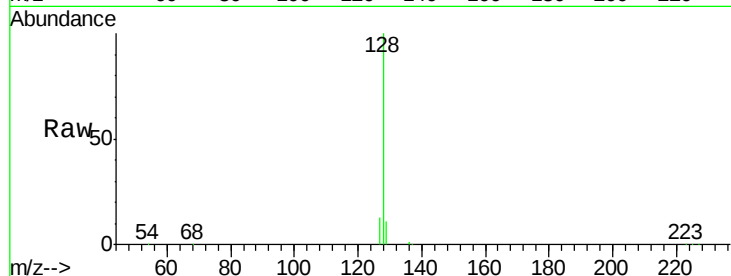
ClientSampleId :

PB84854BS

Tot Ion:	128	Resp:	89972
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.8	14.6
127	13.2	10.6	16.0

Manual Integrations
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#10

Hexachlorobutadiene

Concen: 5.68 ng

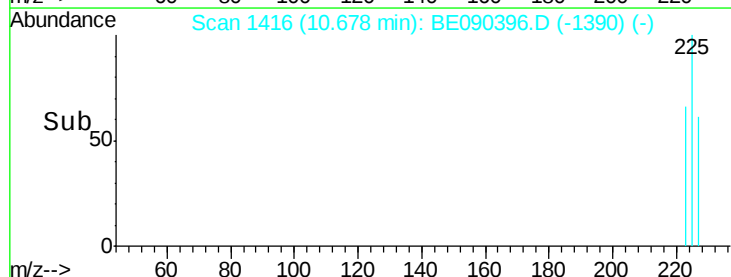
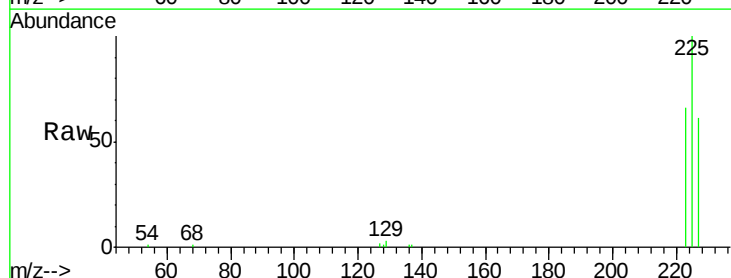
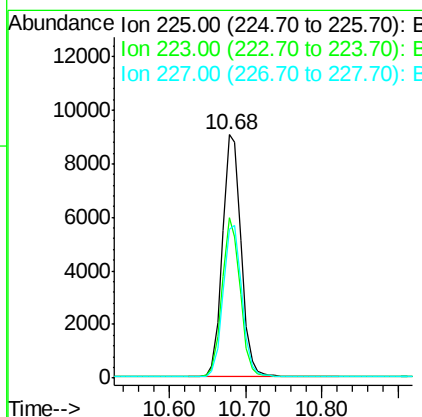
RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion:	225	Resp:	15341
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	75.8
227	63.2	50.7	76.1





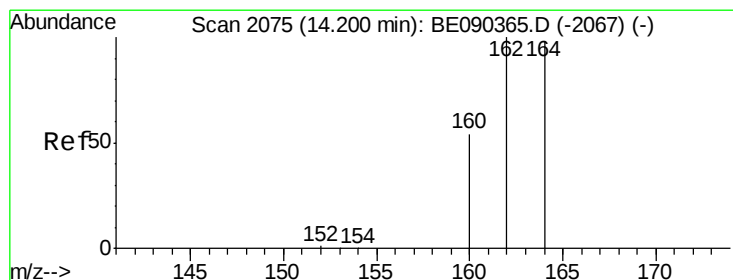
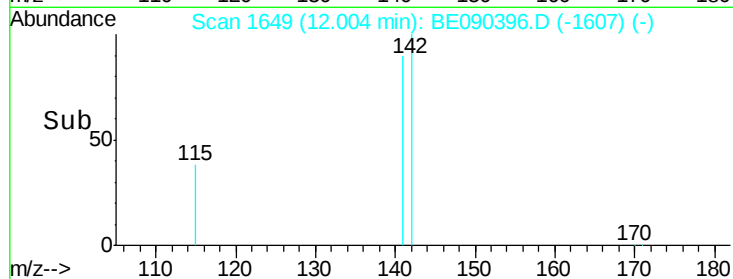
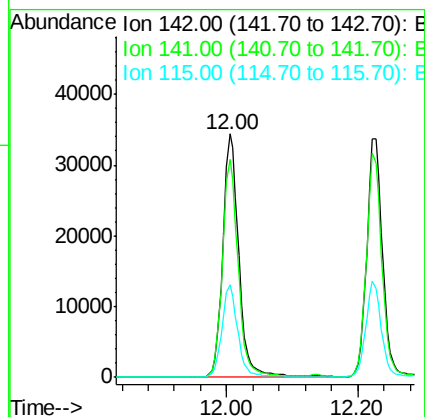
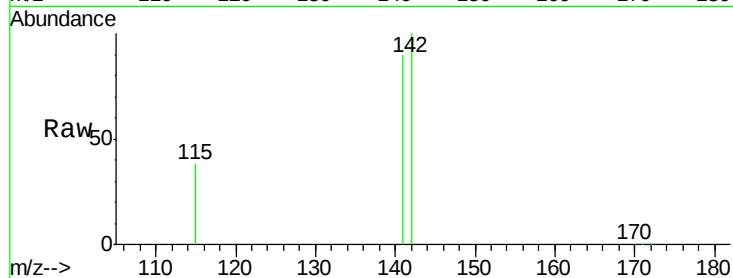
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2-Methylnaphthalene
Concen: 5.59 ng
RT: 12.00 min Scan# 1649
Delta R.T. -0.01 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.7	72.6	109.0
115	37.9	31.6	47.4

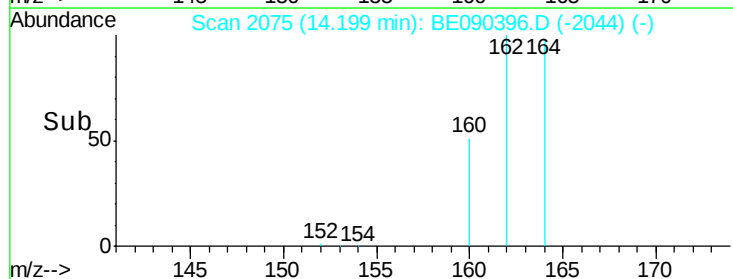
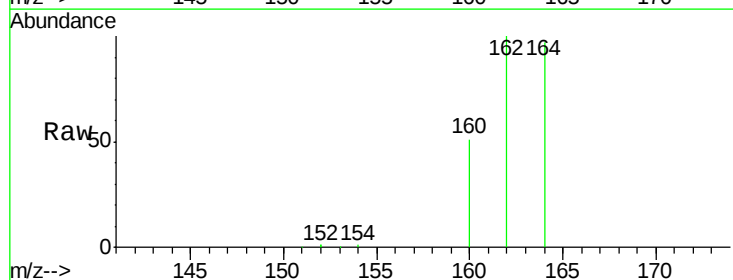
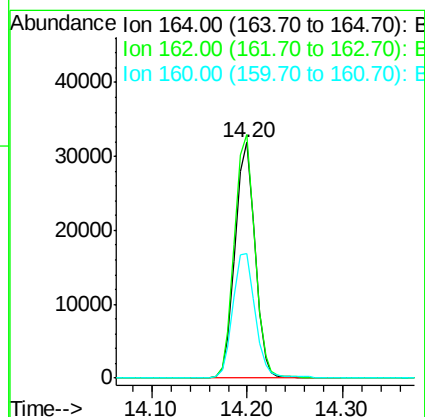
Manual Integrations
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 2075
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	81.8	122.8
160	52.9	44.2	66.4





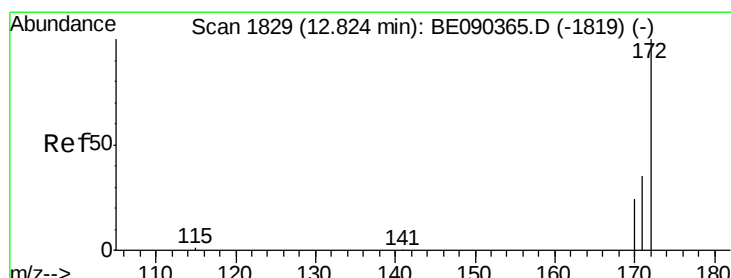
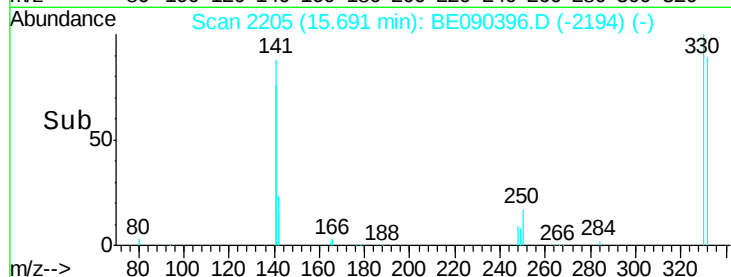
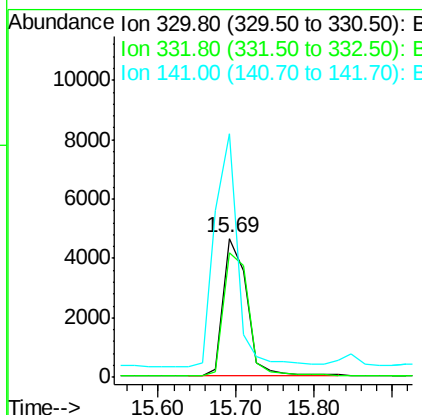
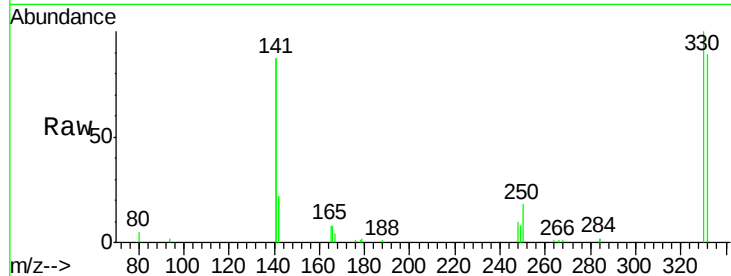
#13
 2,4,6-Tribromophenol
 Concen: 7.28 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampled :
 PB84854BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.8	113.6
141	164.4	114.4	171.6

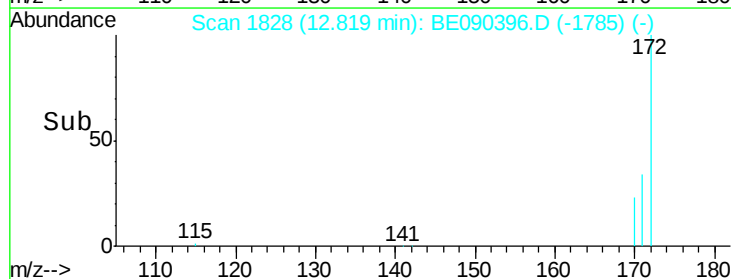
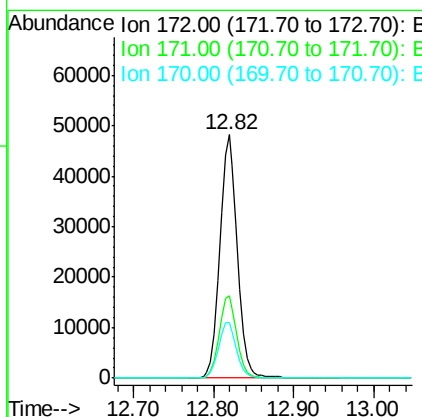
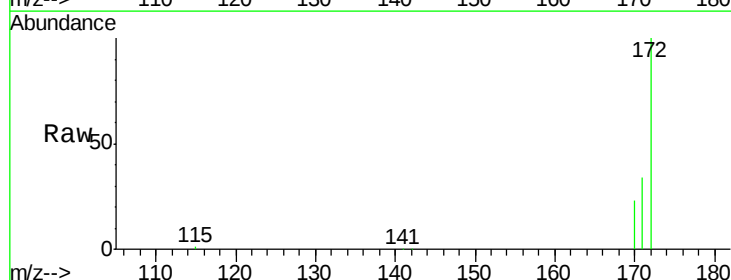
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#14
 2-Fluorobiphenyl
 Concen: 5.82 ng
 RT: 12.82 min Scan# 1828
 Delta R.T. -0.00 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.5	42.7
170	23.0	19.8	29.8





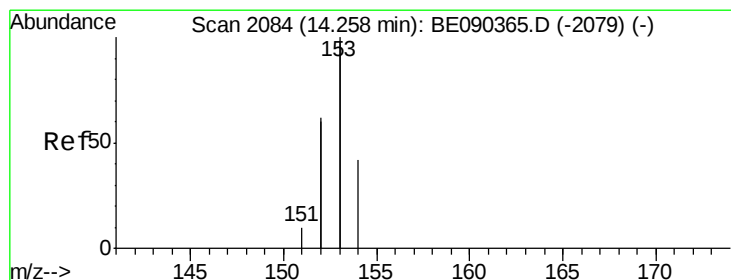
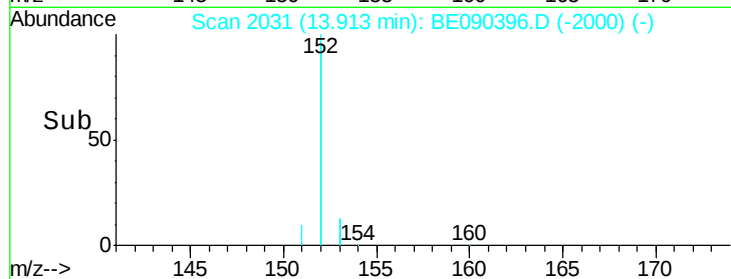
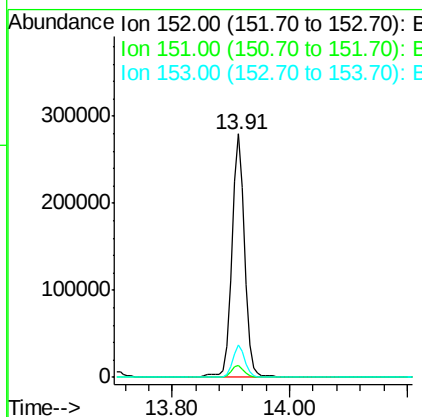
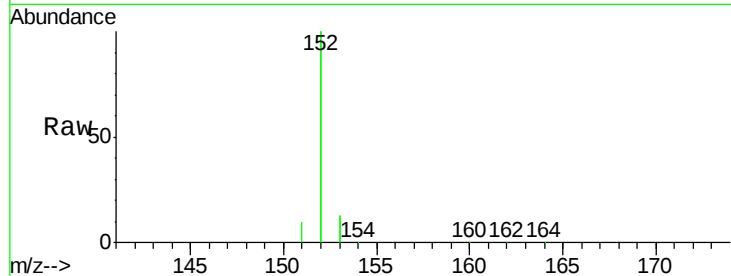
#15
Acenaphthylene
Concen: 5.63 ng
RT: 13.91 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	13.0	10.3	15.5

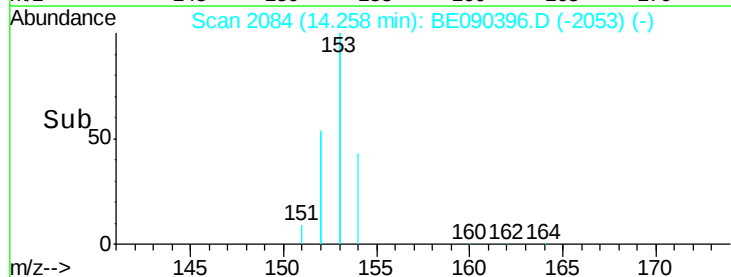
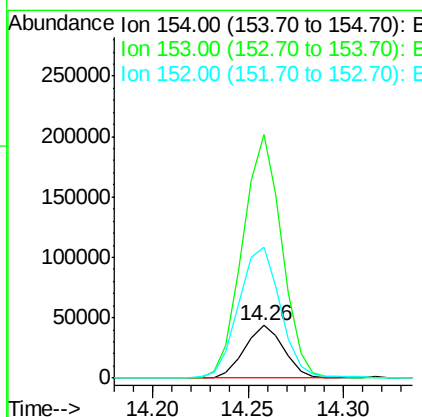
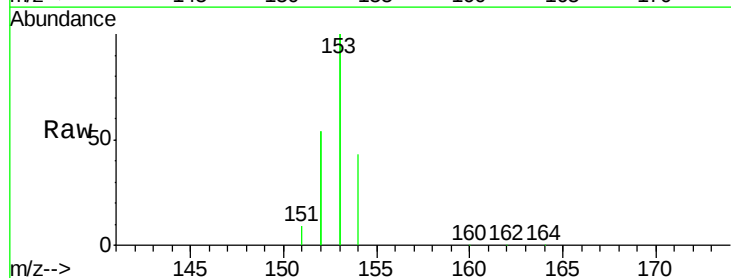
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#16
Acenaphthene
Concen: 5.42 ng
RT: 14.26 min Scan# 2084
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
154	100		
153	464.6	376.2	564.2
152	265.2	235.0	352.4





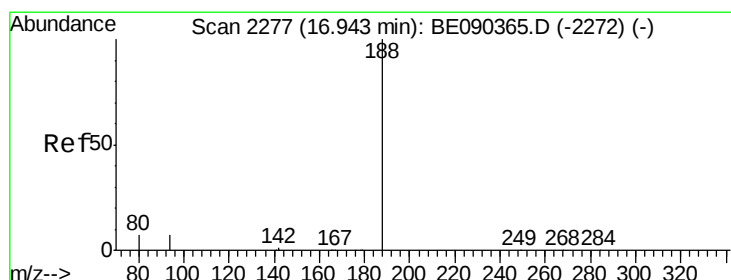
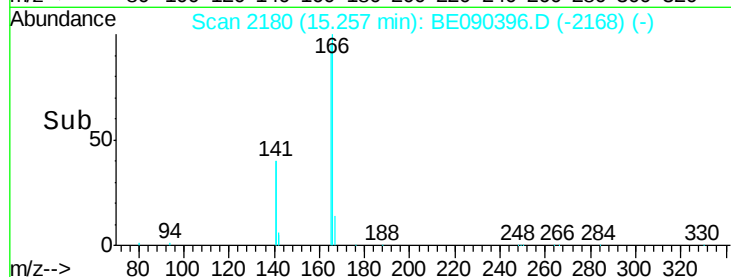
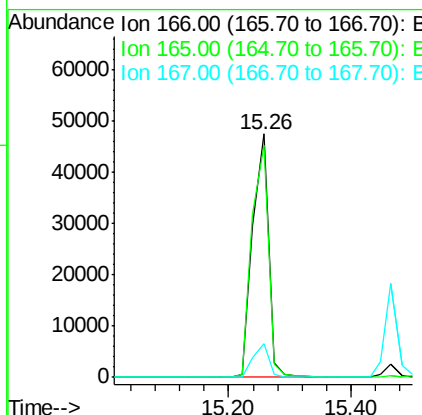
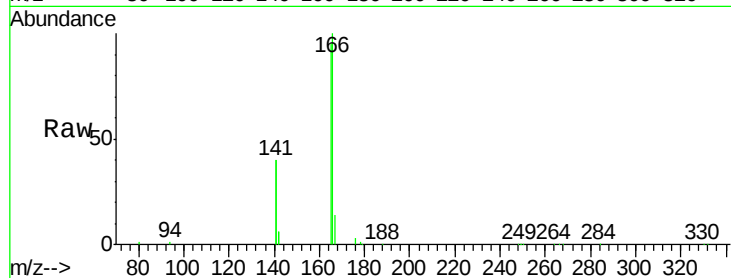
#17
Fluorene
Concen: 5.72 ng
RT: 15.26 min Scan# 2180
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	81.5	122.3
167	13.6	11.4	17.0

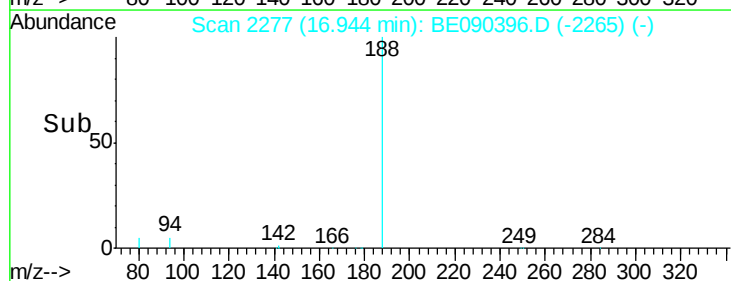
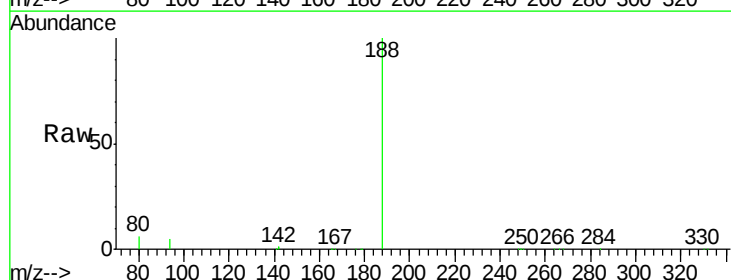
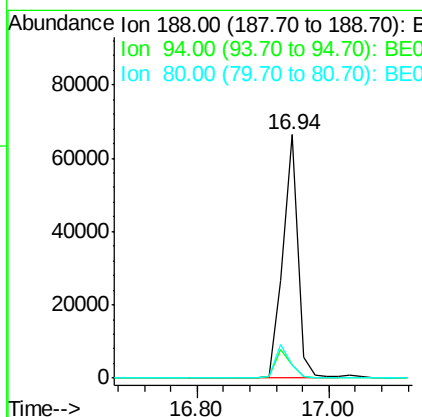
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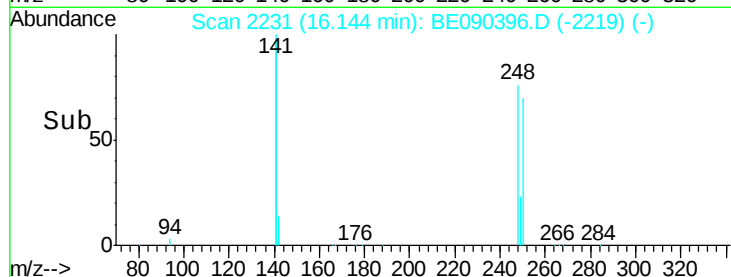
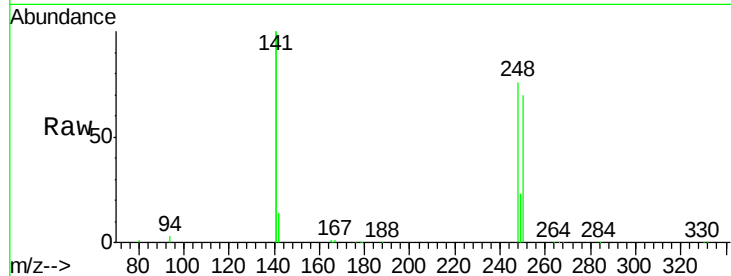
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.94 min Scan# 2277
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.5	5.7	8.5#
80	5.6	5.8	8.8#





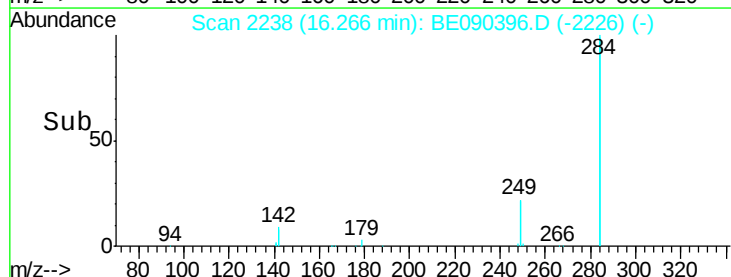
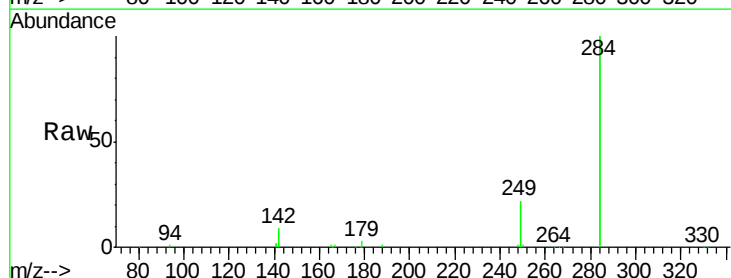
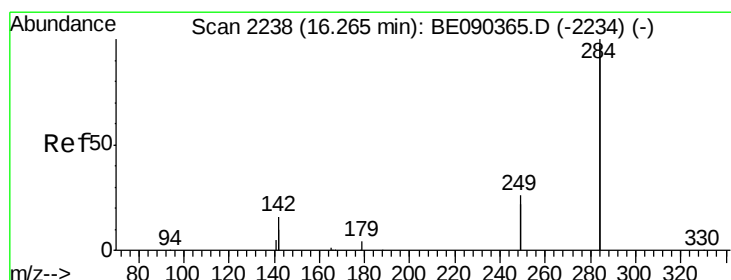
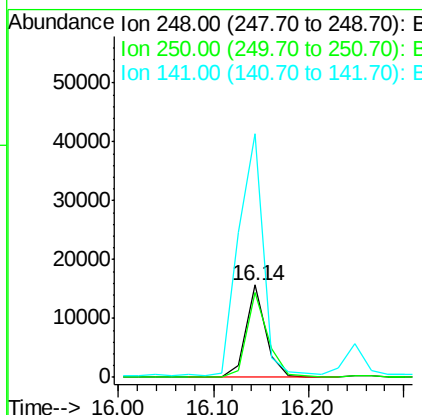
#19
4-Bromophenyl-phenylether
Concen: 5.55 ng
RT: 16.14 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Manual Integrations
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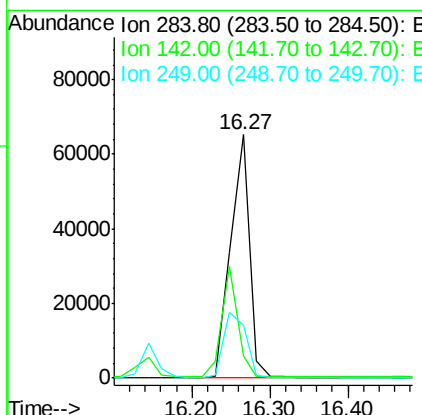
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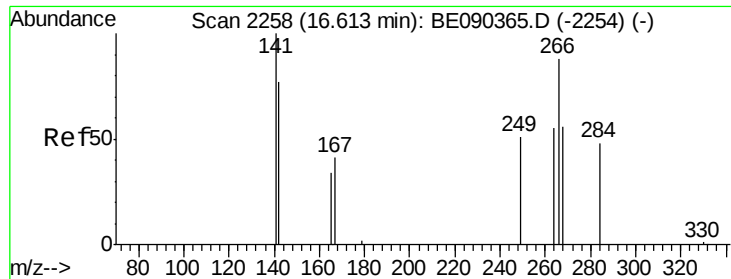
Tot Ion	Ratio	Lower	Upper
248	100		
250	96.7	79.0	118.6
141	320.8	239.5	359.3



#20
Hexachlorobenzene
Concen: 5.16 ng
RT: 16.27 min Scan# 2238
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.1	45.1
249	31.5	25.7	38.5





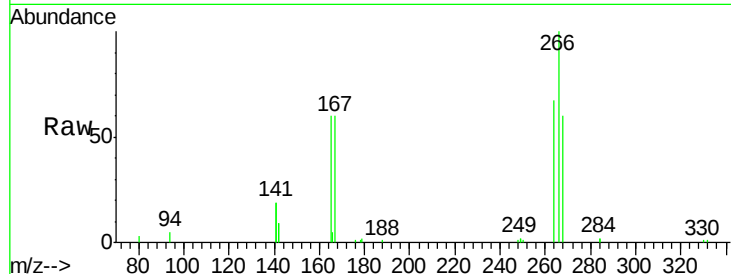
#21
 Pentachlorophenol
 Concen: 8.46 ng
 RT: 16.60 min Scan# 2257
 Delta R.T. -0.02 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

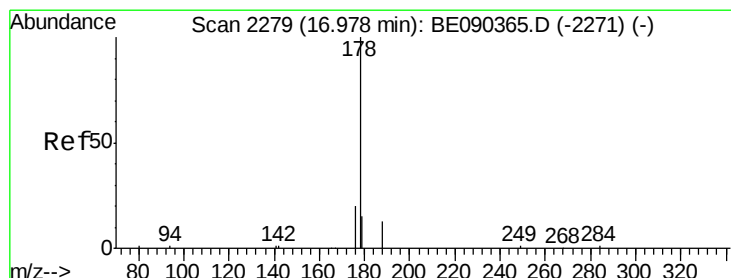
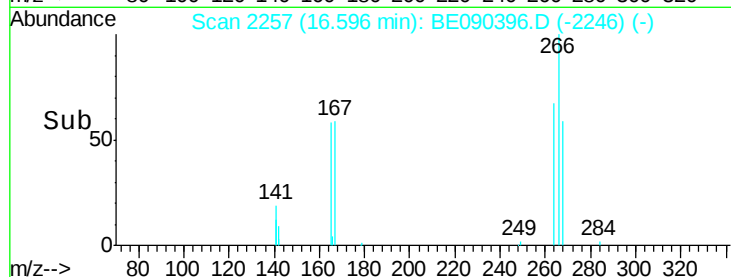
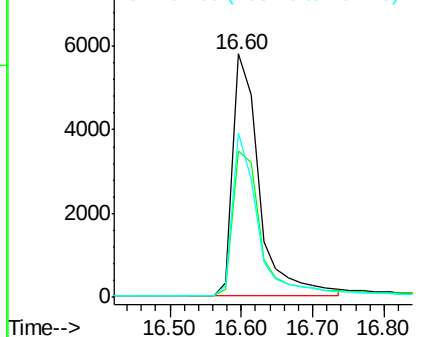
Tot Ion	Ratio	Lower	Upper
266	100		
268	59.9	58.5	87.7
264	67.4	56.0	84.0

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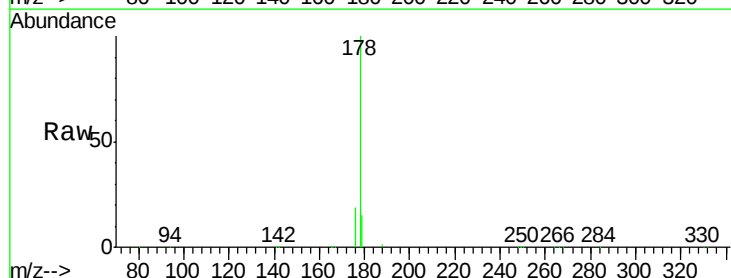


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

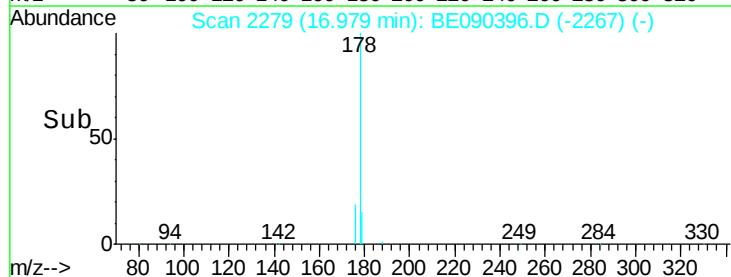
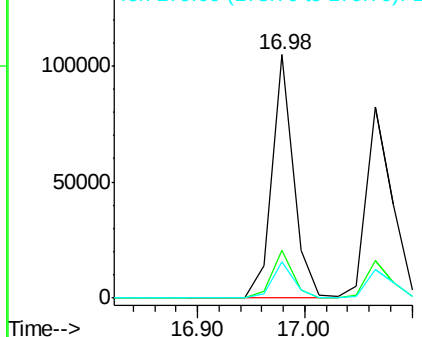


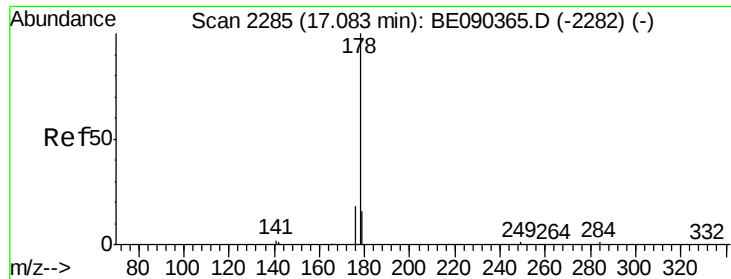
#22
 Phenanthrene
 Concen: 5.63 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.5	18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





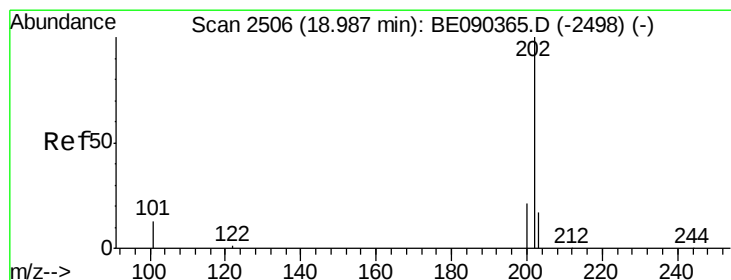
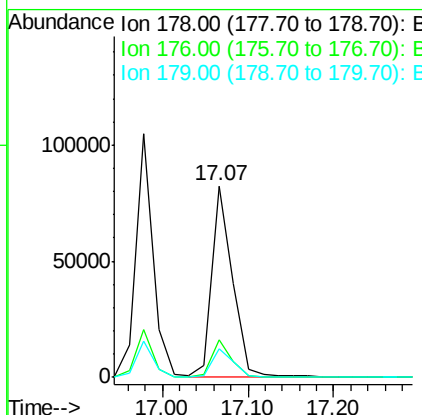
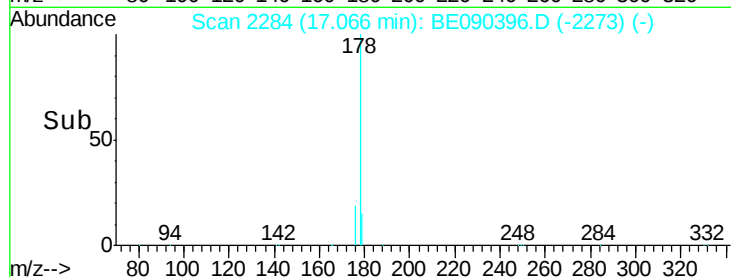
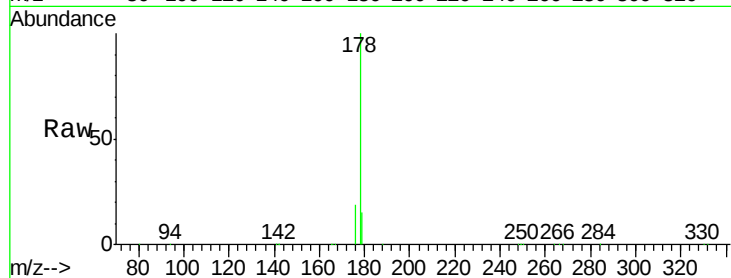
#23
 Anthracene
 Concen: 6.46 ng
 RT: 17.07 min Scan# 2284
 Delta R.T. -0.02 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.5	12.2	18.4

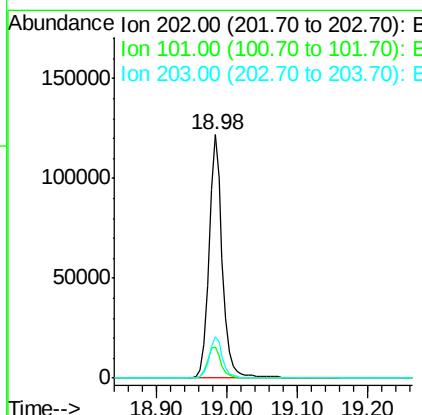
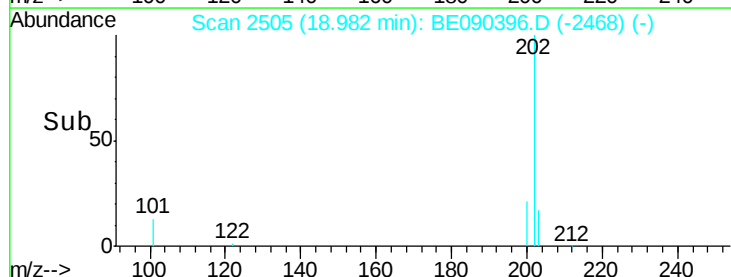
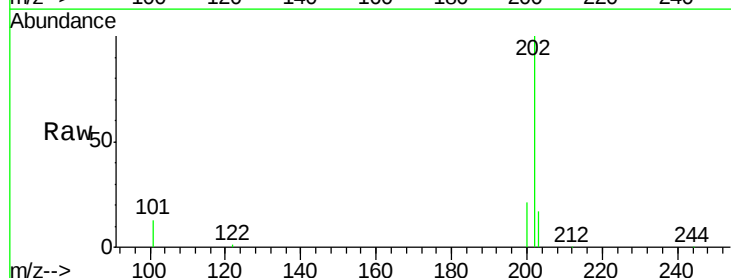
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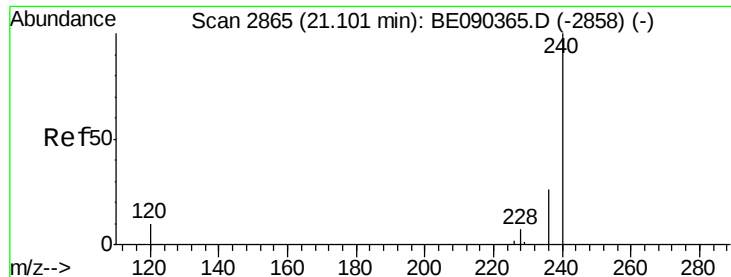
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#24
 Fluoranthene
 Concen: 6.29 ng
 RT: 18.98 min Scan# 2505
 Delta R.T. -0.01 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.3	15.5
203	17.1	13.7	20.5





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA_E

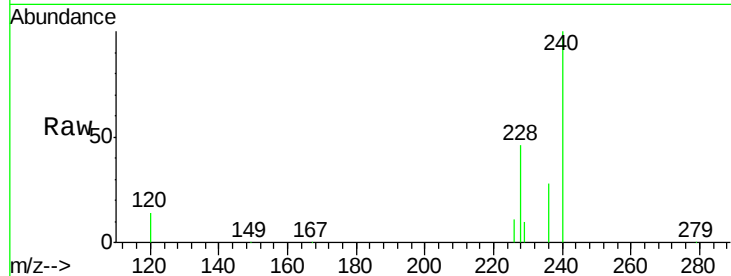
ClientSampleId :

PB84854BS

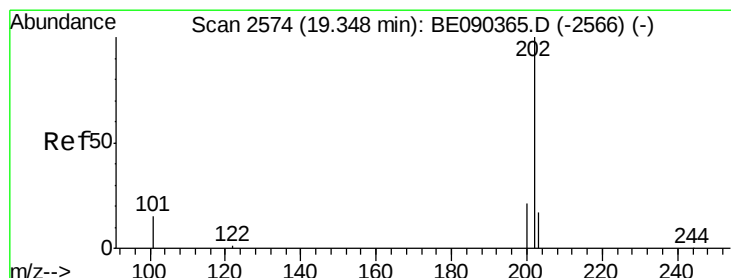
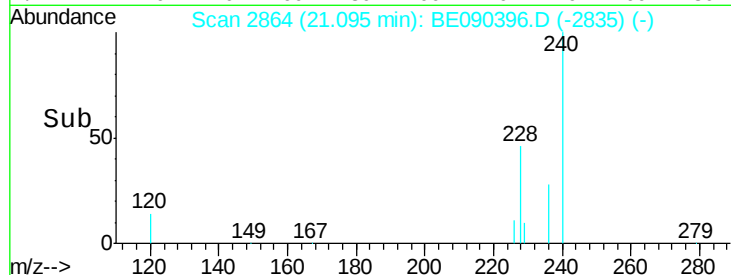
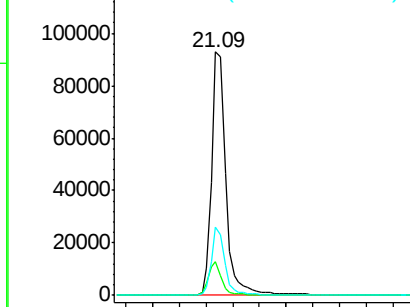
Tot Ion:	240	Resp:	135680
Ion Ratio	Lower	Upper	
240	100		
120	14.0	8.3	12.5#
236	27.8	21.0	31.4

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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

Pyrene

Concen: 6.15 ng

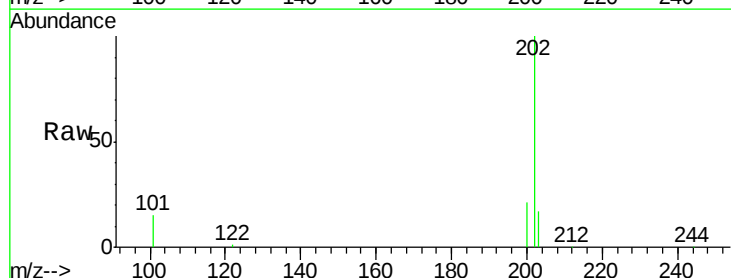
RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

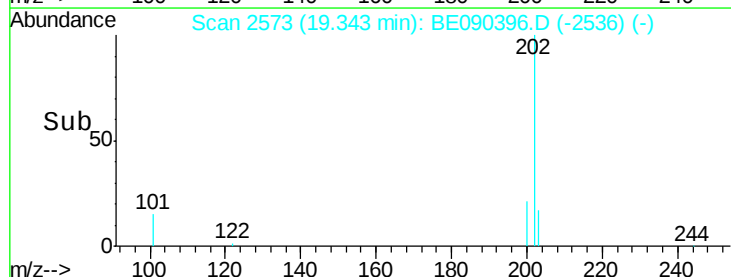
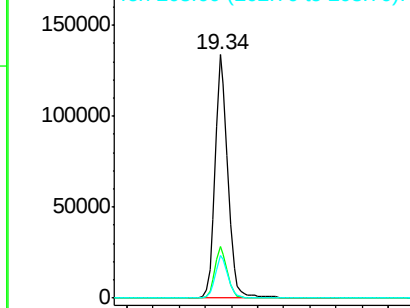
Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion:	202	Resp:	180920
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.7	25.1
203	17.9	13.8	20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





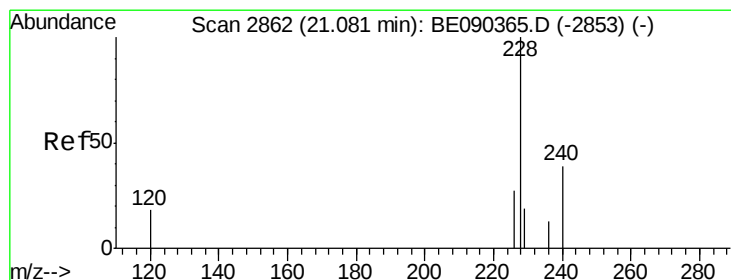
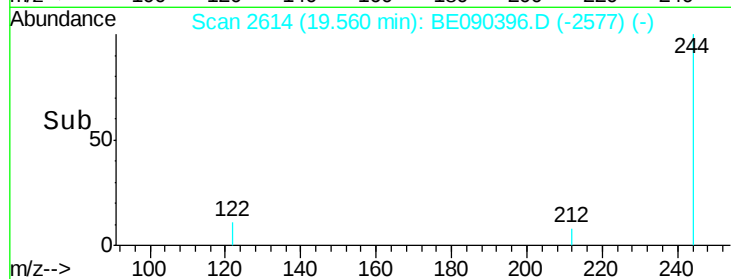
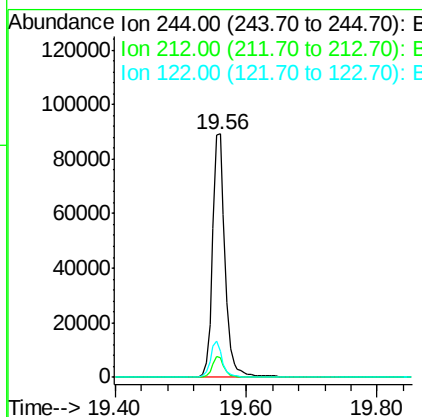
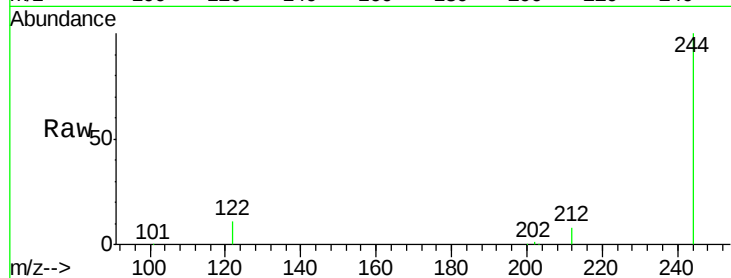
#27
 Terphenyl-d14
 Concen: 5.99 ng
 RT: 19.56 min Scan# 2614
 Delta R.T. -0.01 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

Tot Ion	Ratio	Resp	Lower	Upper
244	100	119674		
212	7.8	6.6	9.8	
122	10.9	10.2	15.4	

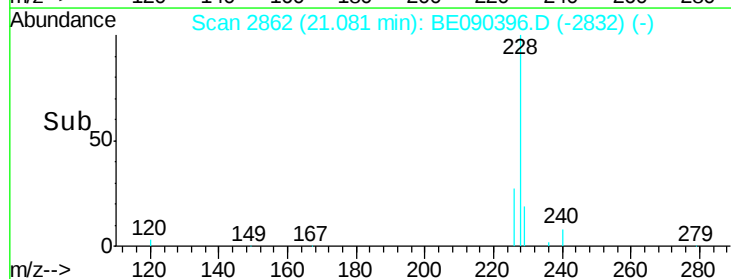
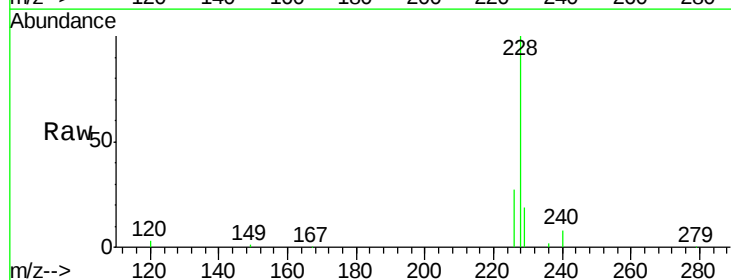
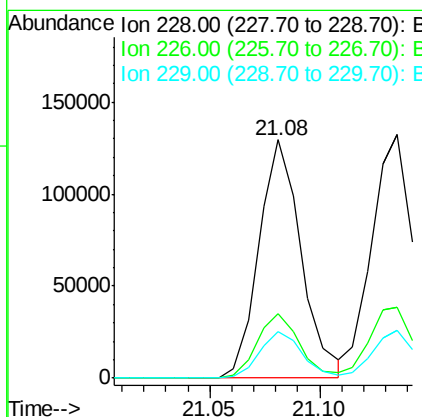
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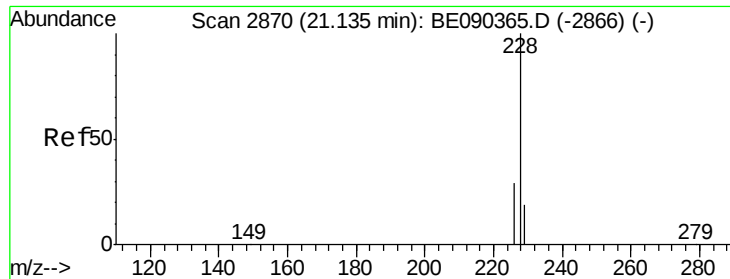
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#28
 Benzo(a)anthracene
 Concen: 5.80 ng
 RT: 21.08 min Scan# 2862
 Delta R.T. 0.00 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	174316		
226	27.2	21.9	32.9	
229	19.4	15.4	23.0	





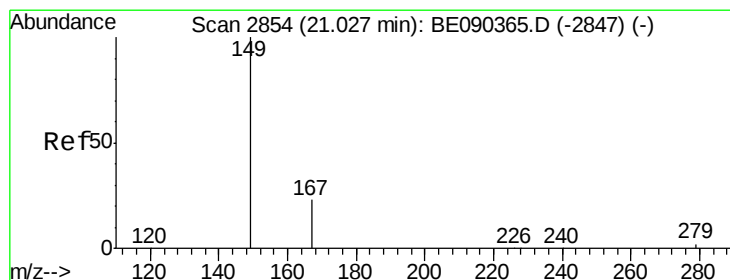
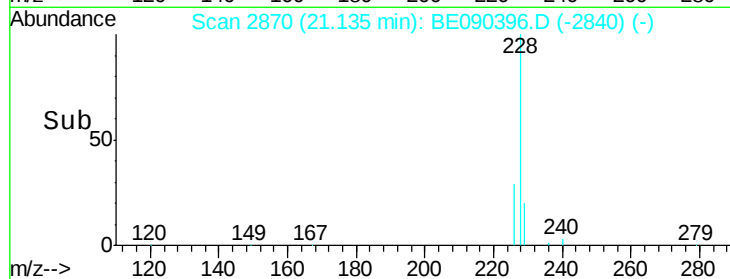
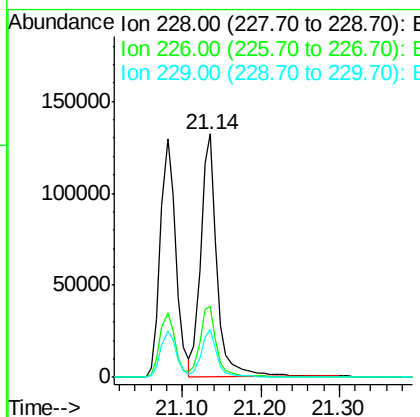
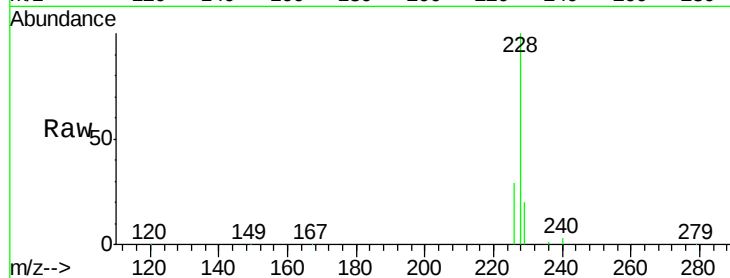
#29
Chrysene
Concen: 5.26 ng
RT: 21.14 min Scan# 2870
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.1	34.7
229	19.8	15.8	23.8

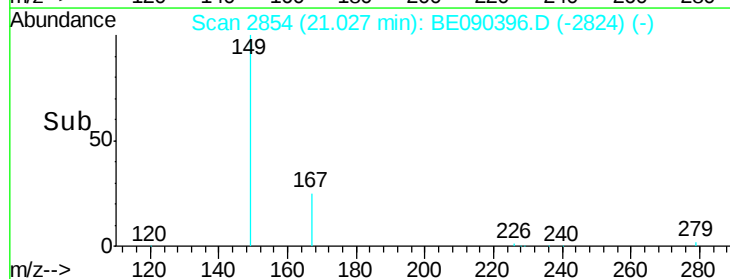
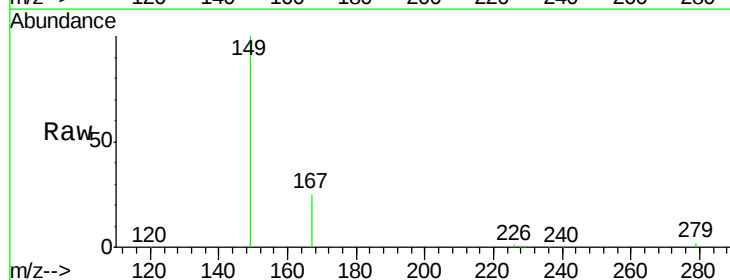
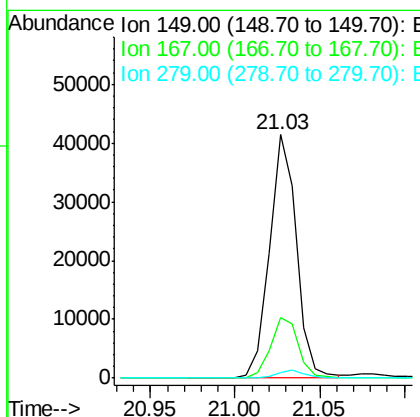
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#30
Bis(2-ethylhexyl)phthalate
Concen: 4.37 ng
RT: 21.03 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.6	19.8	29.8
279	3.0	2.4	3.6





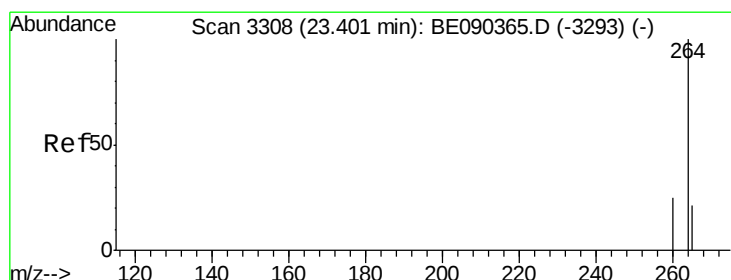
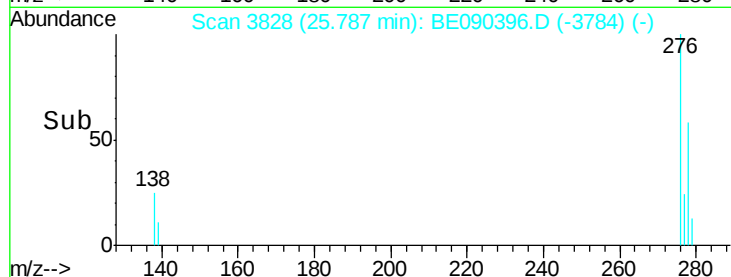
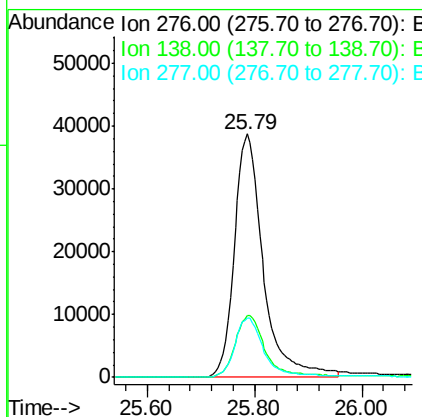
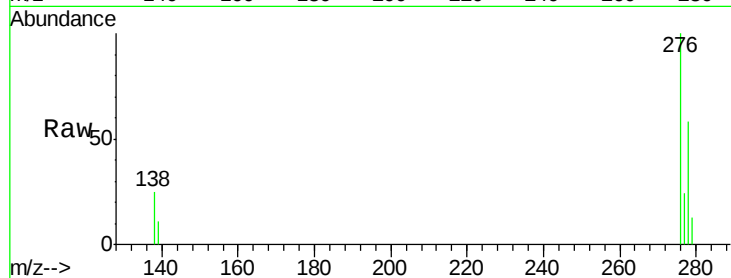
#31
Indeno(1,2,3-cd)pyrene
Concen: 4.42 ng
RT: 25.79 min Scan# 3828
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.4	18.8	28.2
277	24.8	18.2	27.4

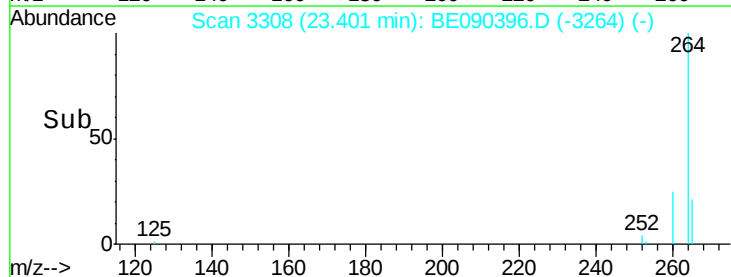
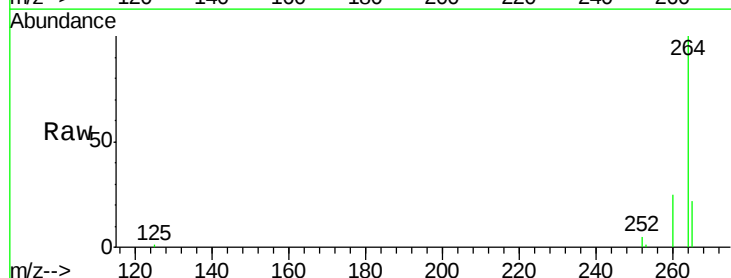
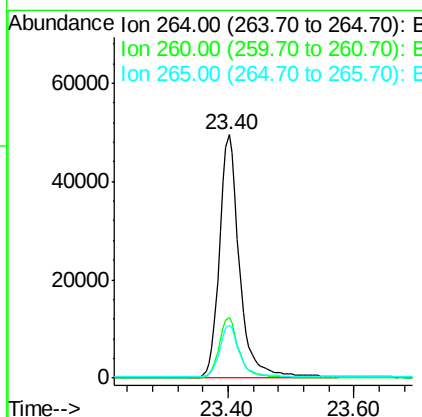
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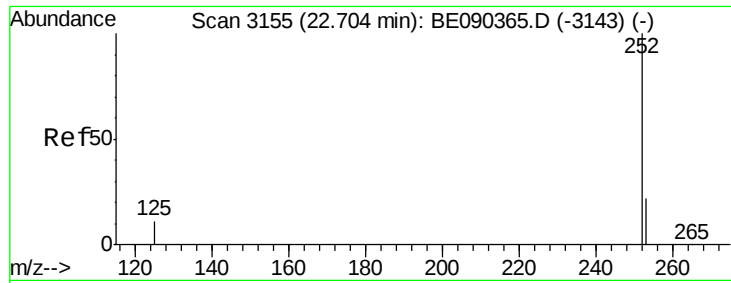
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#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3308
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	20.1	30.1
265	21.7	17.2	25.8





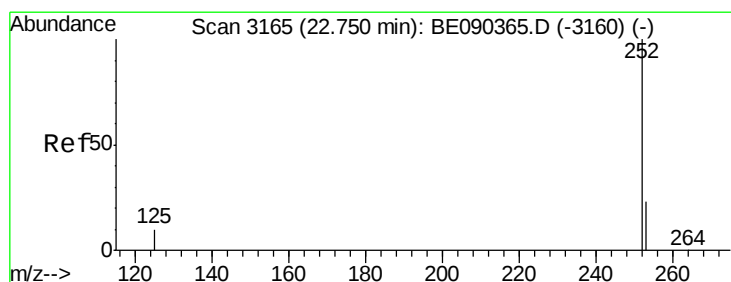
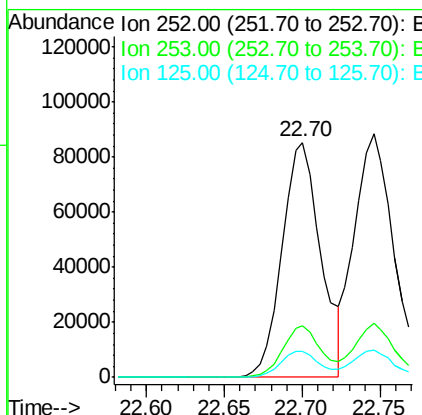
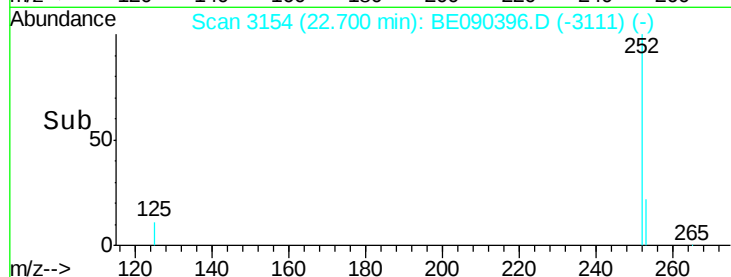
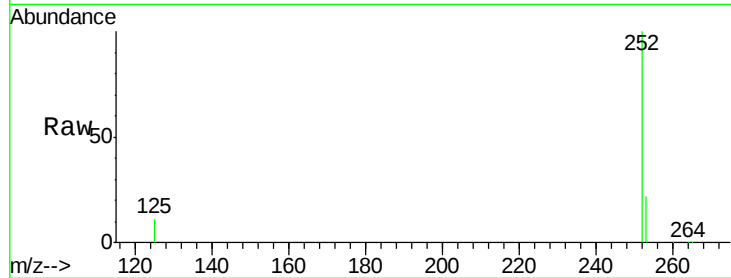
#33
Benzo(b)fluoranthene
Concen: 5.87 ng
RT: 22.70 min Scan# 3154
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1
125	10.9	9.4	14.2

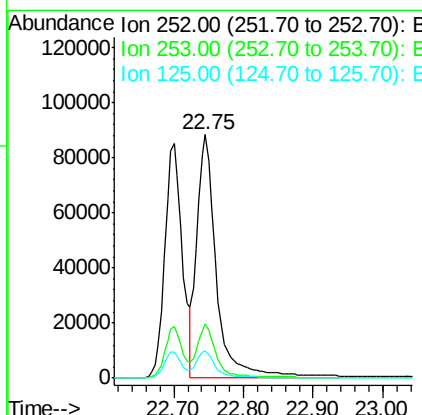
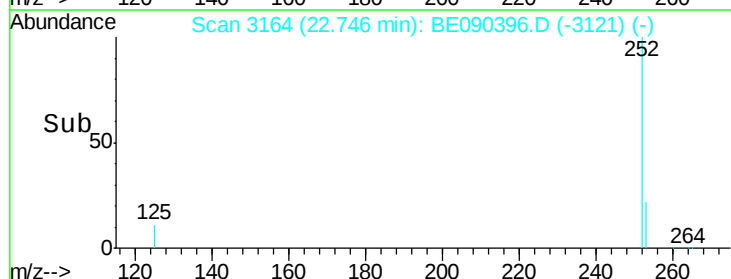
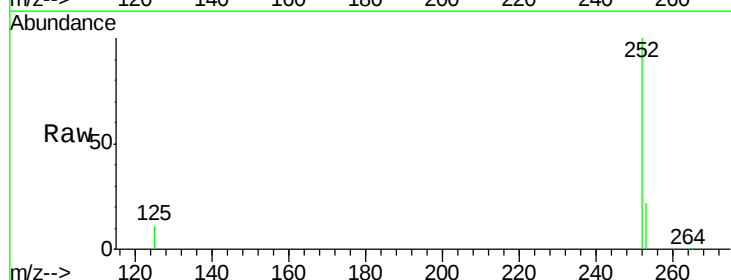
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#34
Benzo(k)fluoranthene
Concen: 5.75 ng m
RT: 22.75 min Scan# 3164
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	11.0	9.1	13.7





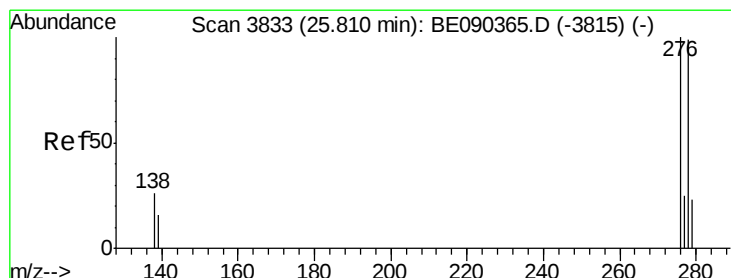
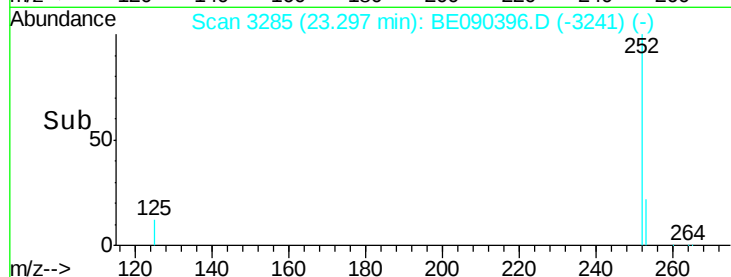
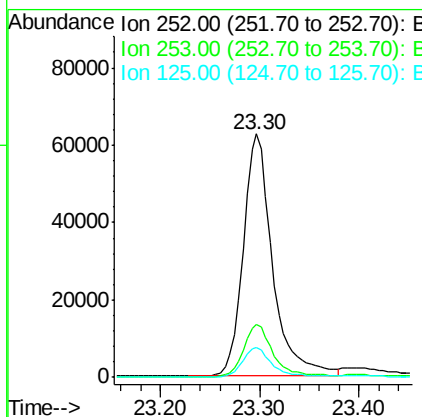
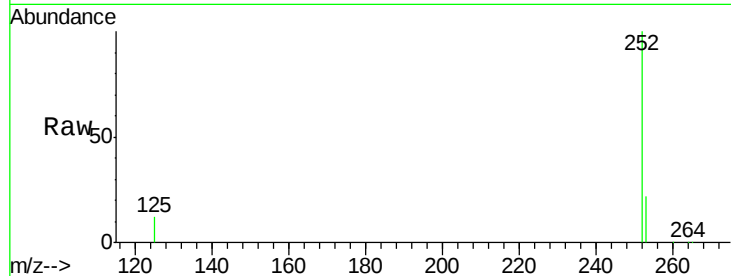
#35
Benzo(a)pyrene
Concen: 5.51 ng
RT: 23.30 min Scan# 3285
Delta R.T. 0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Instrument :
BNA_E
ClientSampleId :
PB84854BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	12.1	9.8	14.6

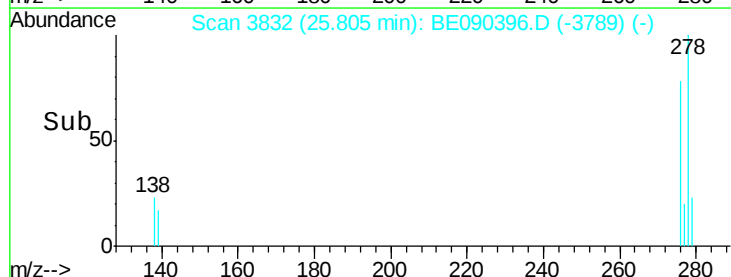
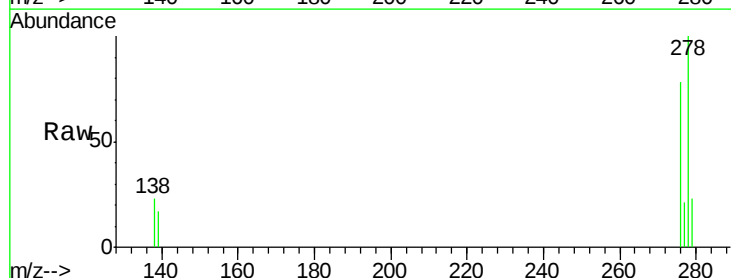
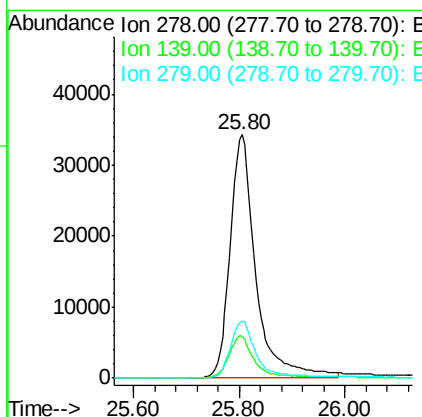
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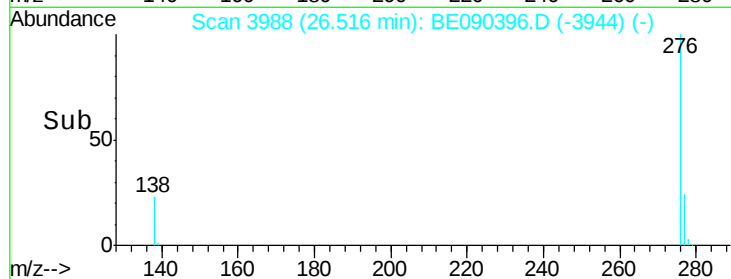
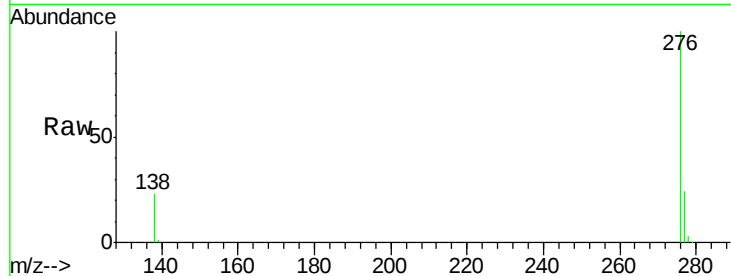
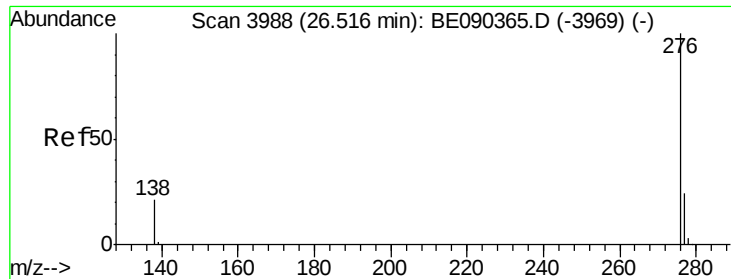
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#36
Dibenzo(a,h)anthracene
Concen: 5.04 ng
RT: 25.80 min Scan# 3832
Delta R.T. -0.00 min
Lab File: BE090396.D
Acq: 7 Aug 2015 14:14

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	23.5	20.1	30.1





#37
 Benzo(a,h,i)perylene
 Concen: 6.32 ng
 RT: 26.52 min Scan# 3988
 Delta R.T. -0.00 min
 Lab File: BE090396.D
 Acq: 7 Aug 2015 14:14

Instrument :
 BNA_E
 ClientSampleId :
 PB84854BS

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.1	30.1
138	23.0	18.1	27.1

Manual Integrations
 APPROVED

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