

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
 Data File : BE090402.D
 Acq On : 7 Aug 2015 17:52
 Operator : TP/UM
 Sample : PB84793BSD
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB84793BSD

Manual Integrations
 APPROVED

MMDadoda
 8/10/2015 7:11:33 PM

Quant Time: Aug 08 00:08:41 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	22129	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	102894	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	60417	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	140452	5.00	ng	0.00
25) Chrysene-d12	21.09	240	181273	5.00	ng	0.00
32) Perylene-d12	23.40	264	150300	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	27310	8.23	ng	0.00
5) Phenol-d6	6.76	99	46578	6.51	ng	-0.01
7) Nitrobenzene-d5	8.72	82	32266	3.90	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	10149	6.17	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	73450	4.42	ng	0.00
27) Terphenyl-d14	19.55	244	125306	4.69	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.20	88	11215	4.28	ng	98
3) n-Nitrosodimethylamine	3.49	42	14123	4.13	ng	95
8) Nitrobenzene	8.77	77	33914	3.84	ng	97
9) Naphthalene	10.38	128	89160	3.92	ng	98
10) Hexachlorobutadiene	10.68	225	15063	4.38	ng	99
11) 2-Methylnaphthalene	12.00	142	58287	4.42	ng	98
15) Acenaphthylene	13.91	152	416765	4.26	ng	100
16) Acenaphthene	14.26	154	62458	4.11	ng	91
17) Fluorene	15.26	166	84317	4.27	ng	97
19) 4-Bromophenyl-phenylether	16.14	248	23995	4.39	ng	97
20) Hexachlorobenzene	16.27	284	109879	3.89	ng	99
21) Pentachlorophenol	16.60	266	15617	7.35	ng	90
22) Phenanthrene	16.98	178	146728	4.17	ng	100
23) Anthracene	17.07	178	141005	4.88	ng	100
24) Fluoranthene	18.98	202	167779	4.85	ng	100
26) Pyrene	19.34	202	185316	4.72	ng	99
28) Benzo(a)anthracene	21.08	228	181118	4.51	ng	99
29) Chrysene	21.14	228	195964	4.04	ng	100
30) Bis(2-ethylhexyl)phthalate	21.03	149	48145	3.70	ng	99
31) Indeno(1,2,3-cd)pyrene	25.78	276	149677	3.50	ng	95
33) Benzo(b)fluoranthene	22.70	252	145932	4.32	ng	98
34) Benzo(k)fluoranthene	22.75	252	186447m	4.45	ng	
35) Benzo(a)pyrene	23.30	252	134397	4.22	ng	100
36) Dibenzo(a,h)anthracene	25.80	278	120371	3.89	ng	97
37) Benzo(g,h,i)perylene	26.51	276	131896	4.75	ng	98

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

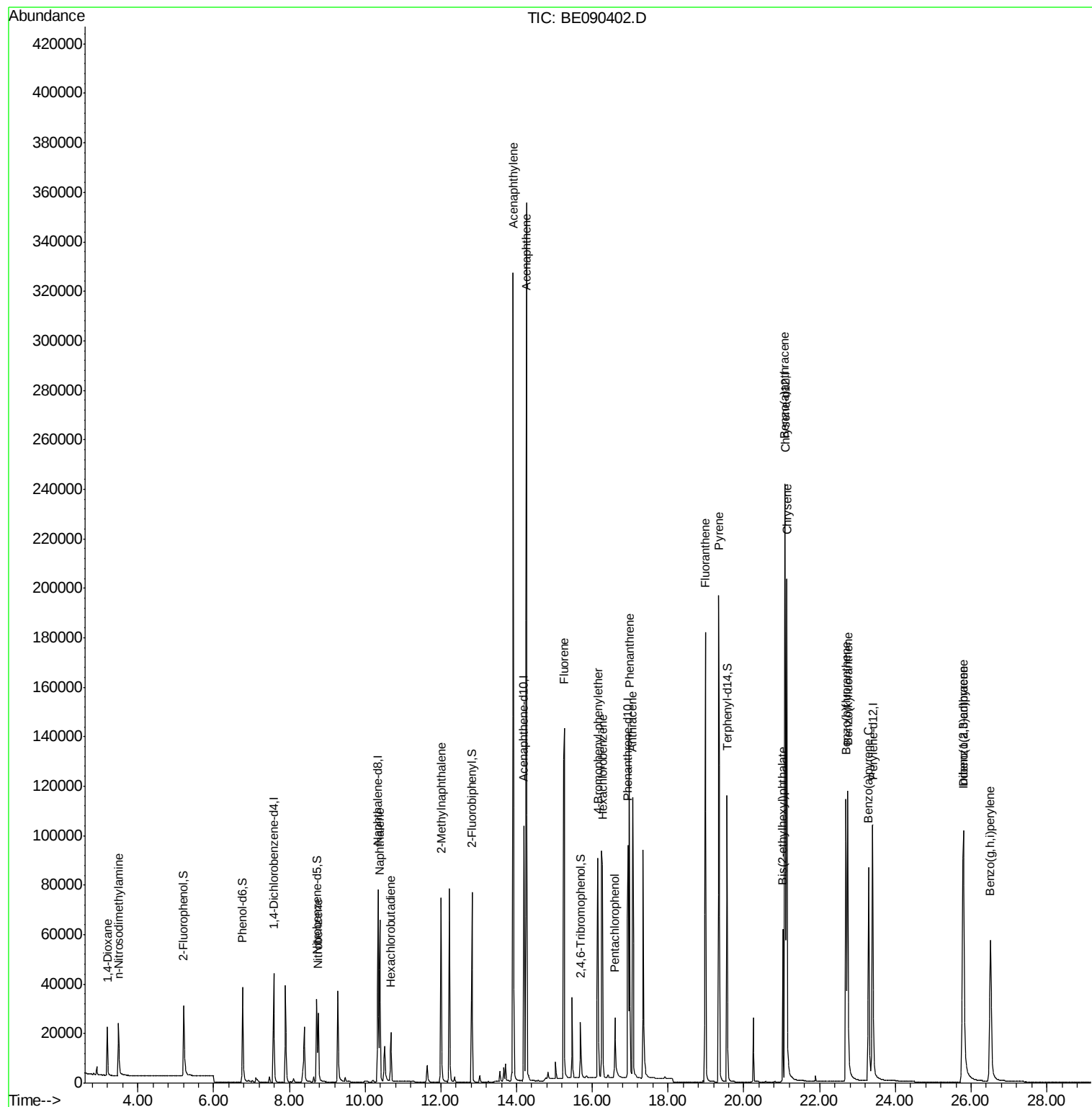
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080715\
Data File : BE090402.D
Acq On : 7 Aug 2015 17:52
Operator : TP/UM
Sample : PB84793BSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

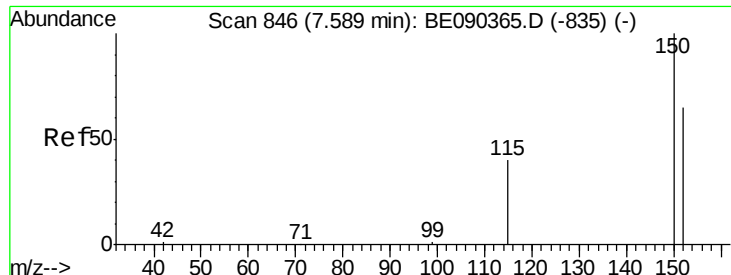
Instrument :
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Manual Integrations
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Quant Time: Aug 08 00:08:41 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 06 12:28:08 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

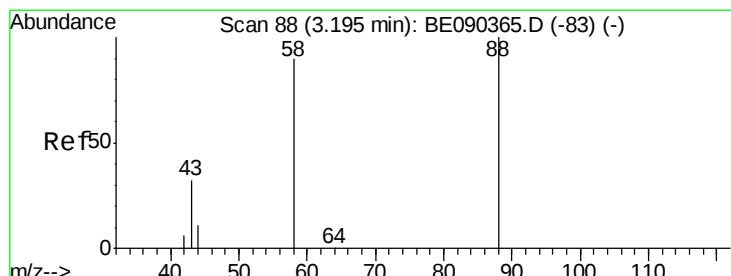
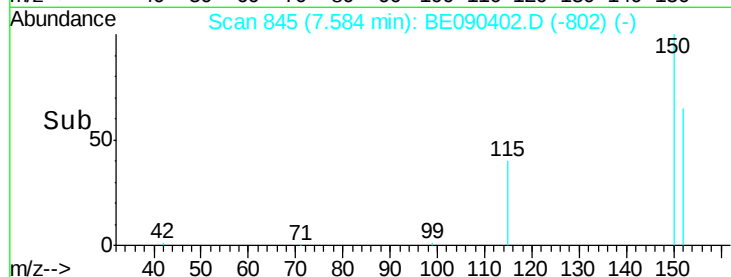
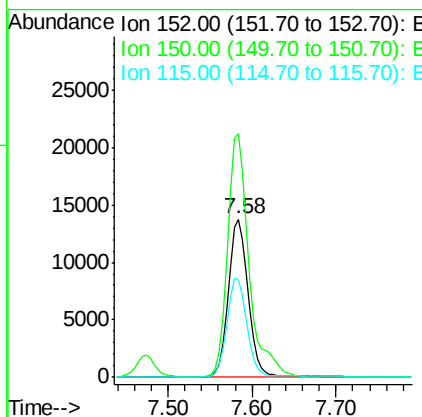
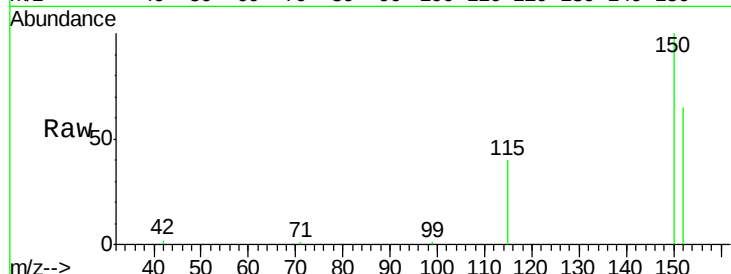
ClientSampleId :

PB84793BSD

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Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.0	184.4
115	61.6	48.9	73.3



#2

1,4-Dioxane

Concen: 4.28 ng

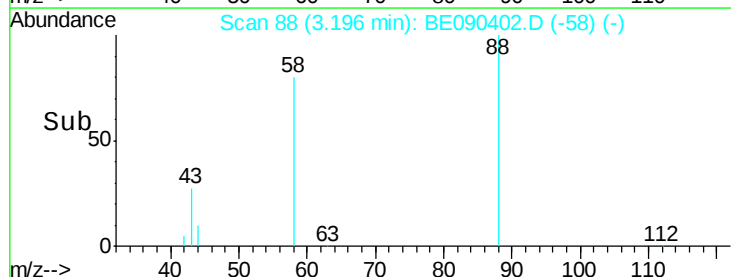
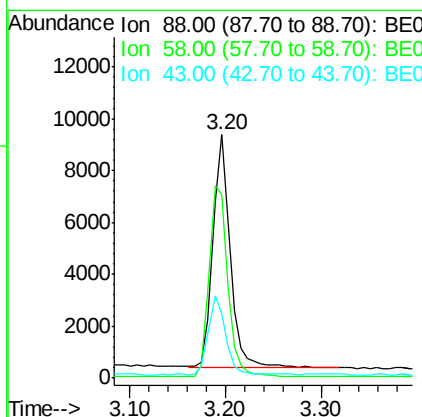
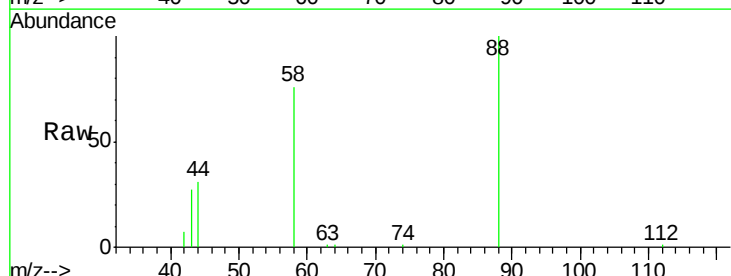
RT: 3.20 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
88	100		
58	87.0	70.0	105.0
43	33.1	28.4	42.6





#3

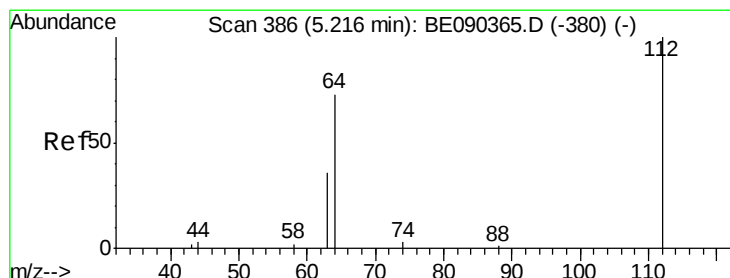
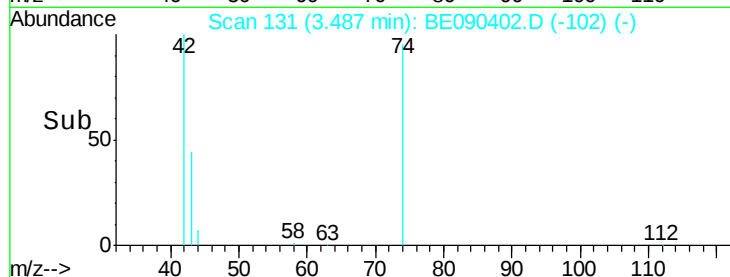
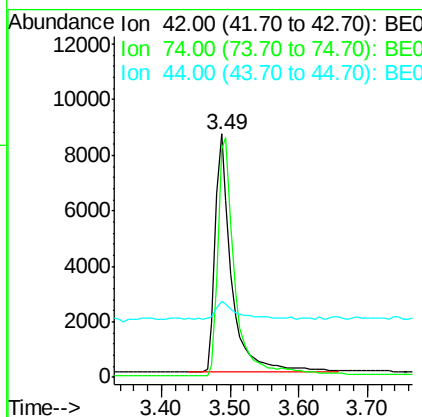
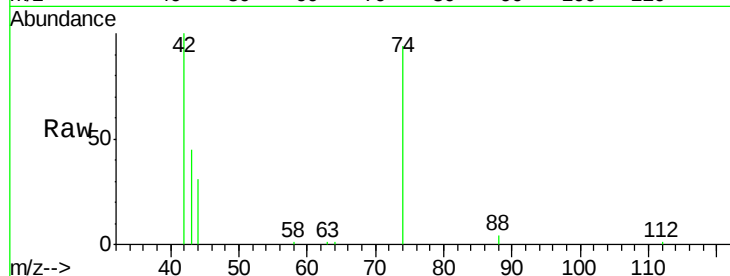
n-Nitrosodimethylamine
Concen: 4.13 ng
RT: 3.49 min Scan# 131
Delta R.T. -0.01 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

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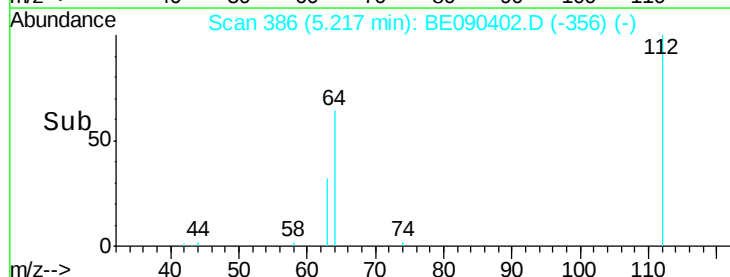
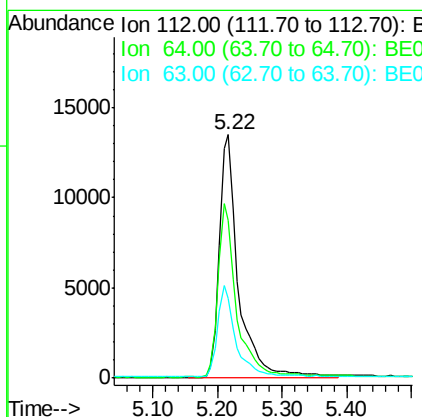
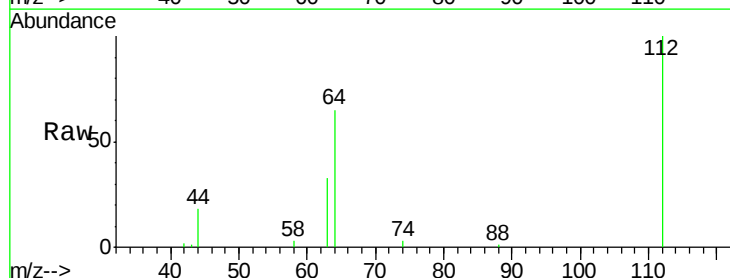
Tot Ion	Ratio	Lower	Upper
42	100		
74	99.5	75.2	112.8
44	9.8	8.7	13.1

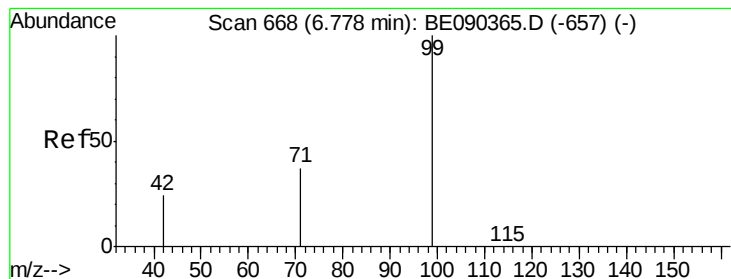


#4

2-Fluorophenol
Concen: 8.23 ng
RT: 5.22 min Scan# 386
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.3	37.1	55.7#
63	36.5	19.5	29.3#





#5

Phenol-d6

Concen: 6.51 ng

RT: 6.76 min Scan# 665

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

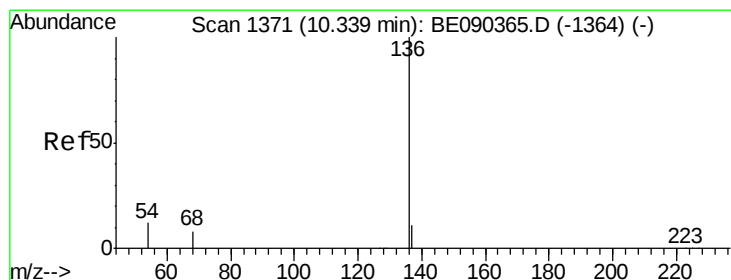
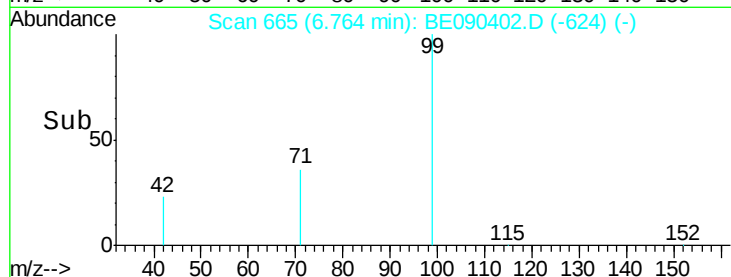
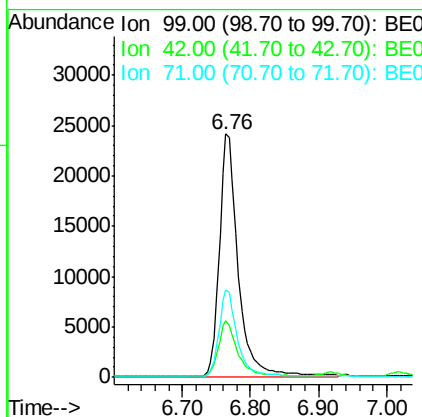
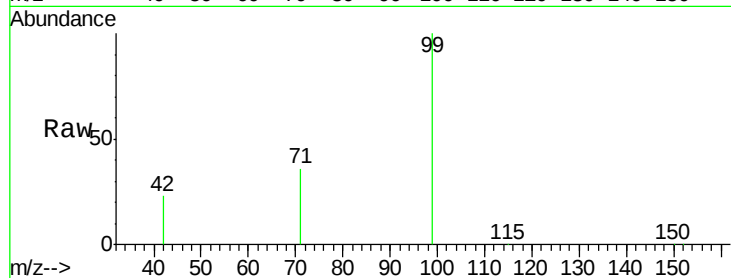
ClientSampleId :

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Tot Ion:	99	Resp:	46578
Ion	Ratio	Lower	Upper
99	100		
42	23.2	18.2	27.4
71	35.4	27.4	41.0



#6

Naphthalene-d8

Concen: 5.00 ng

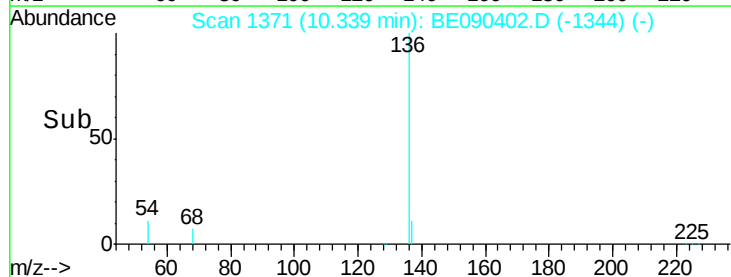
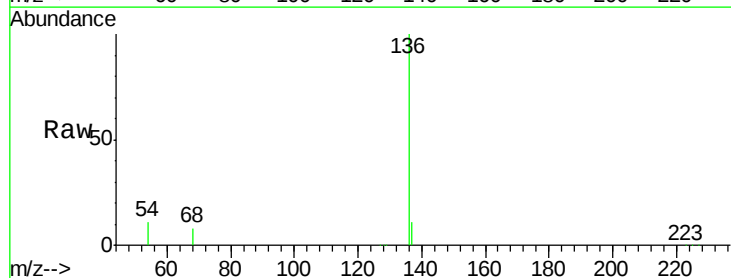
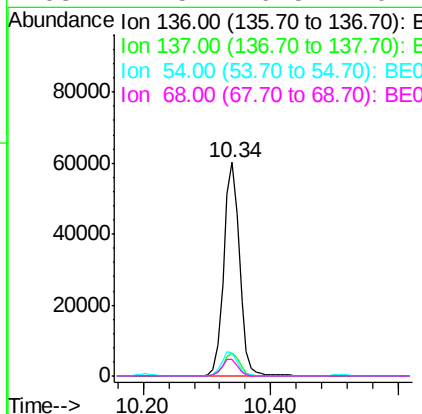
RT: 10.34 min Scan# 1371

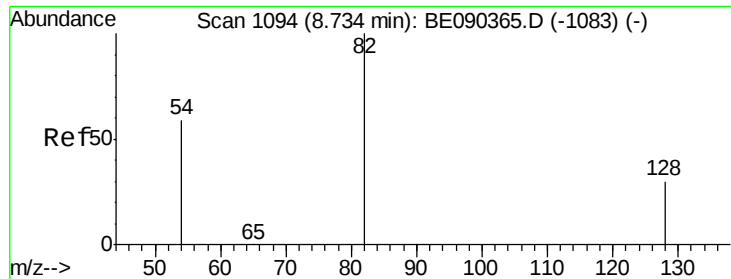
Delta R.T. 0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	136	Resp:	102894
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	10.7	9.4	14.0
68	7.5	6.5	9.7





#7

Nitrobenzene-d5

Concen: 3.90 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

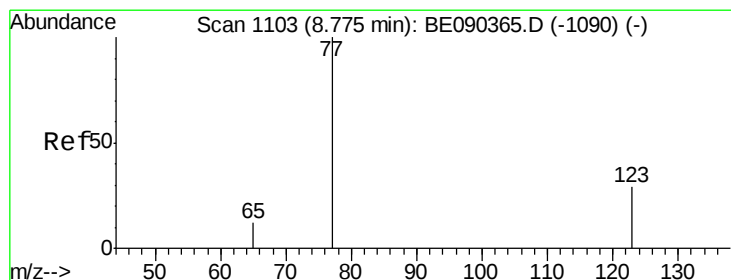
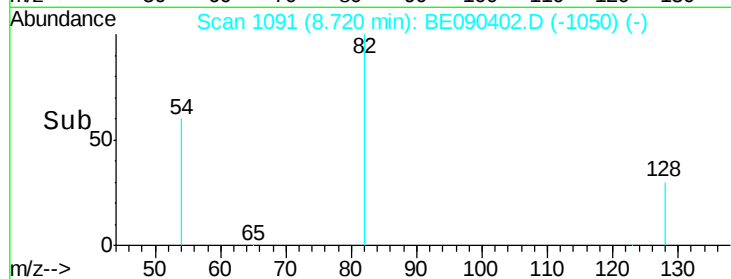
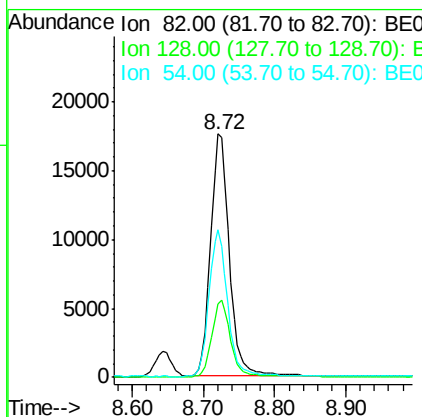
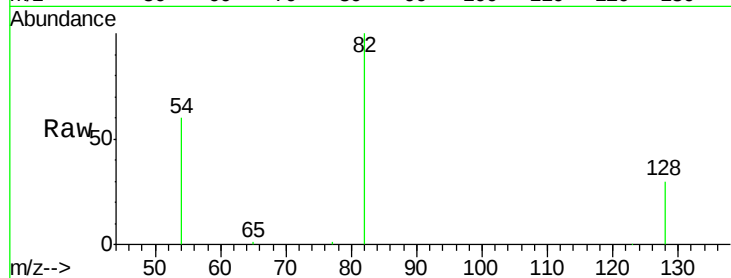
ClientSampleId :

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Tot Ion:	82	Resp:	32266
Ion	Ratio	Lower	Upper
82	100		
128	30.3	25.0	37.6
54	60.5	48.8	73.2



#8

Nitrobenzene

Concen: 3.84 ng

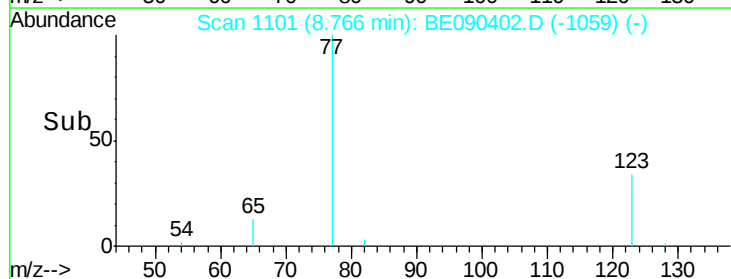
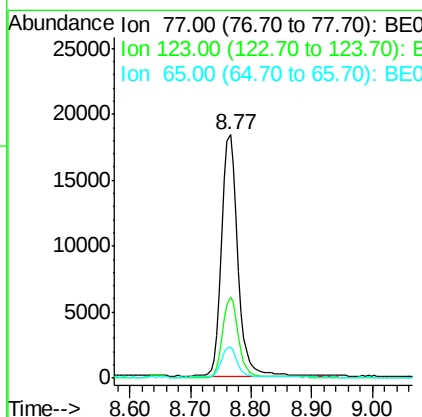
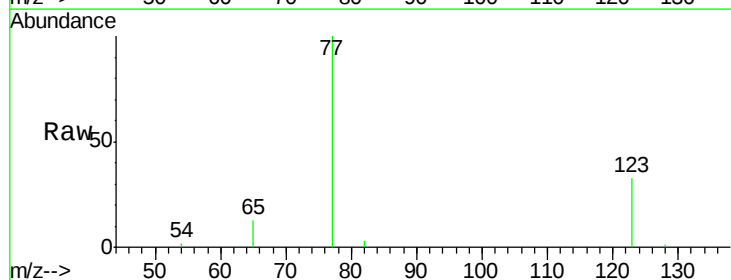
RT: 8.77 min Scan# 1101

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	77	Resp:	33914
Ion	Ratio	Lower	Upper
77	100		
123	33.0	25.1	37.7
65	12.5	9.3	13.9





#9

Naphthalene

Concen: 3.92 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

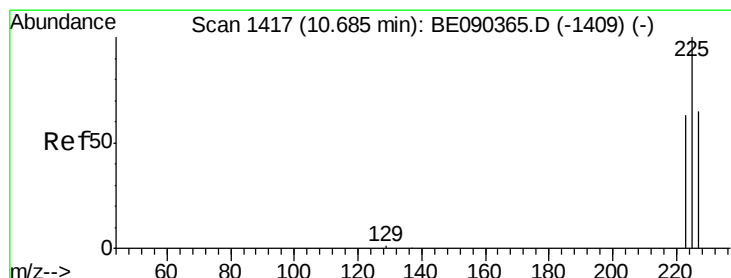
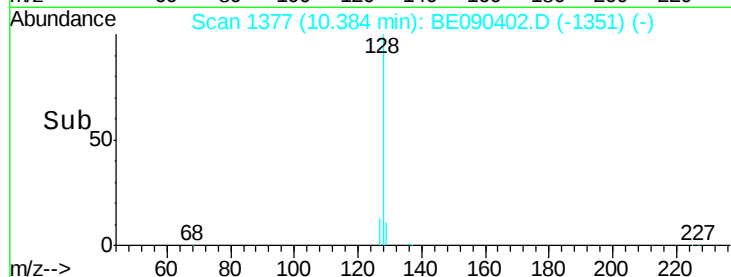
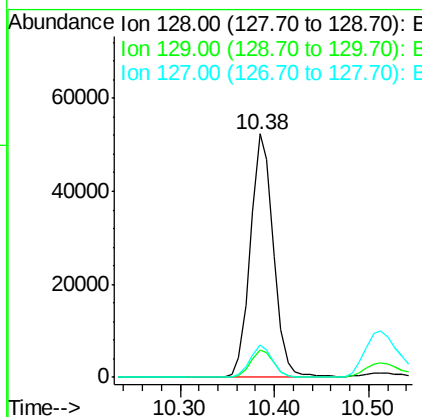
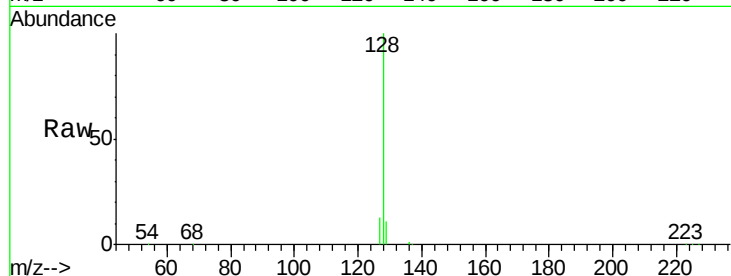
ClientSampleId :

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Tot Ion:	128	Resp:	89160
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.8	14.6
127	13.1	10.6	16.0

Manual Integrations
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#10

Hexachlorobutadiene

Concen: 4.38 ng

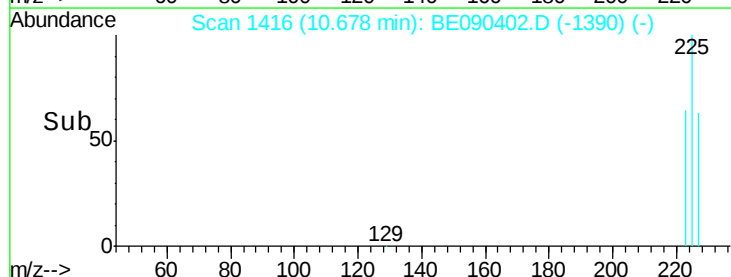
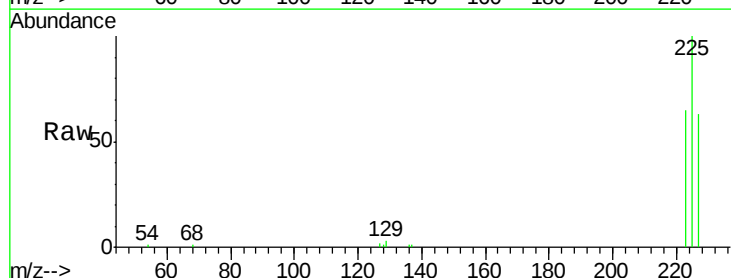
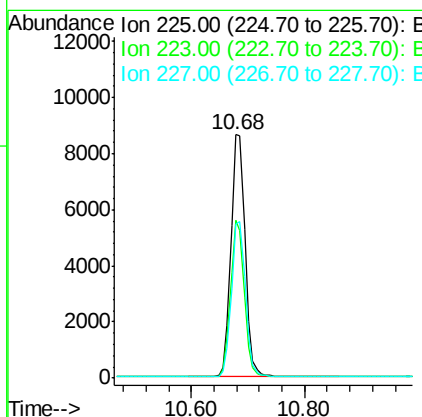
RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	225	Resp:	15063
Ion Ratio	Lower	Upper	
225	100		
223	62.2	50.6	75.8
227	63.7	50.7	76.1





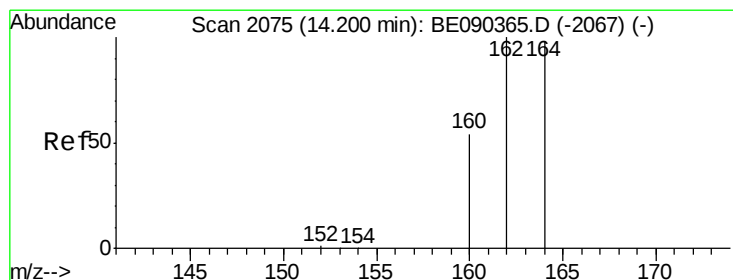
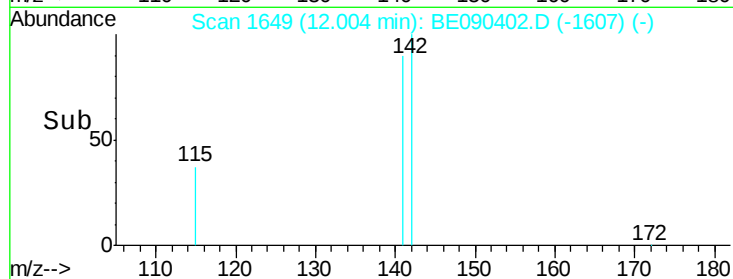
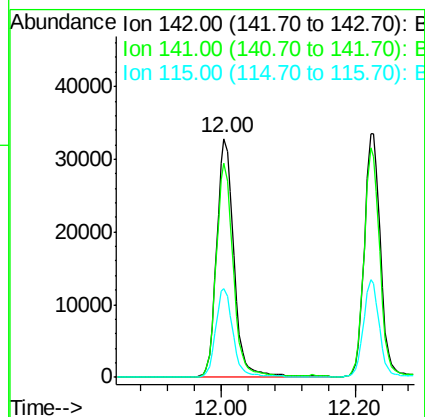
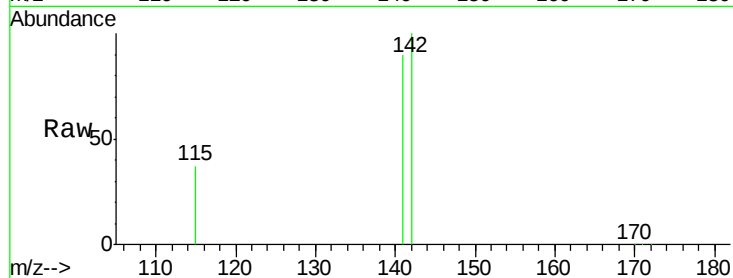
#11
2-Methylnaphthalene
Concen: 4.42 ng
RT: 12.00 min Scan# 1649
Delta R.T. -0.01 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

Tot Ion:142 Resp: 58287
Ion Ratio Lower Upper
142 100
141 89.6 72.6 109.0
115 37.2 31.6 47.4

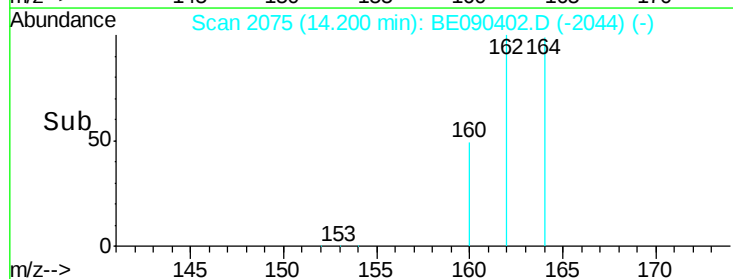
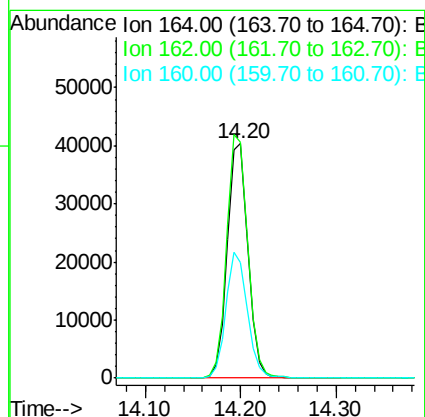
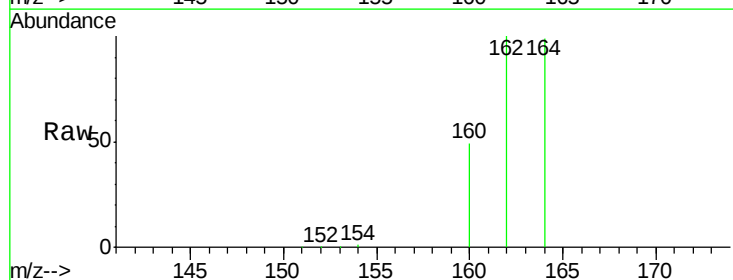
Manual Integrations
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 2075
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion:164 Resp: 60417
Ion Ratio Lower Upper
164 100
162 100.8 81.8 122.8
160 49.4 44.2 66.4





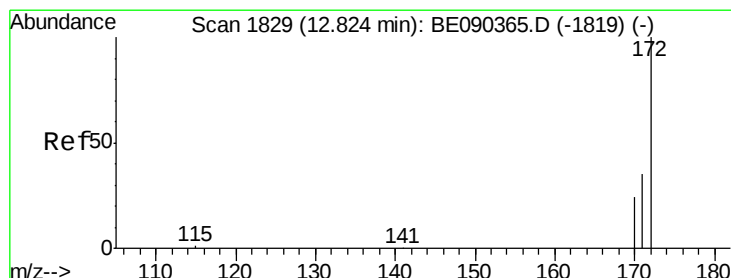
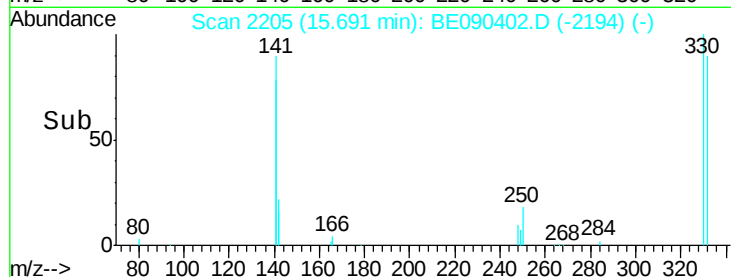
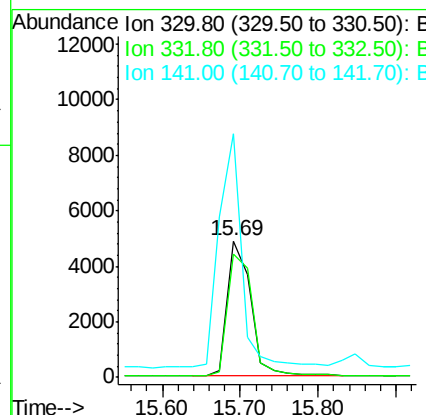
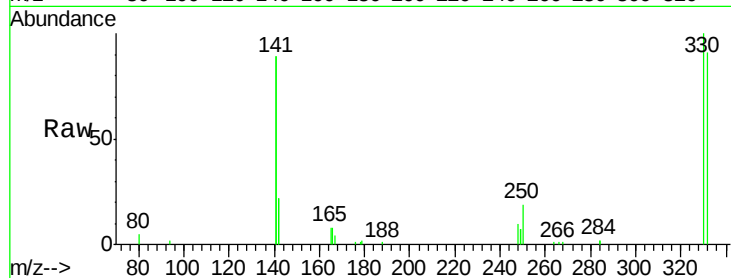
#13
 2,4,6-Tribromophenol
 Concen: 6.17 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Instrument :
 BNA_E
 ClientSampleId :
 PB84793BSD

Manual Integrations
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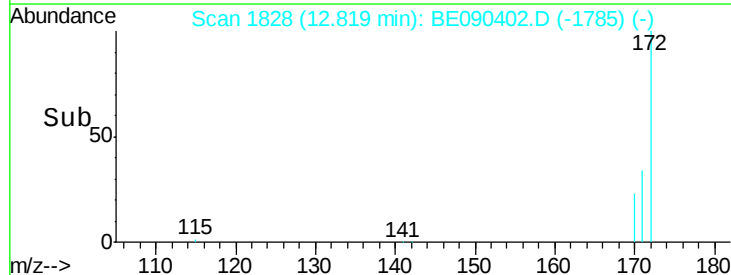
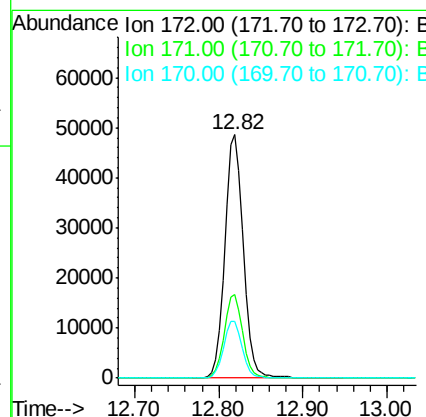
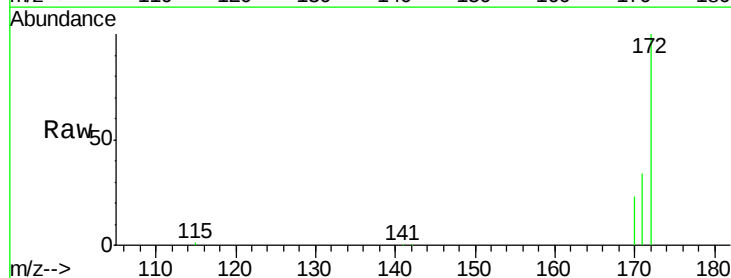
MMDadoda
 8/10/2015 7:11:33 PM

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.8	113.6
141	167.8	114.4	171.6



#14
 2-Fluorobiphenyl
 Concen: 4.42 ng
 RT: 12.82 min Scan# 1828
 Delta R.T. -0.00 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.5	42.7
170	23.3	19.8	29.8





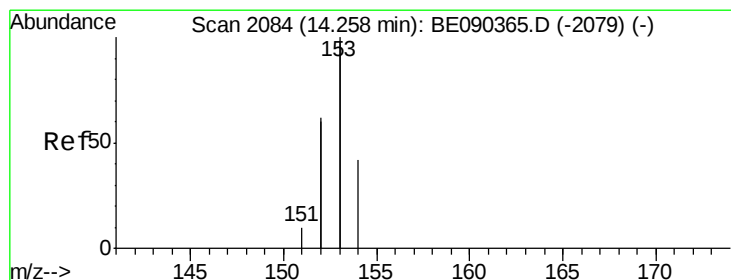
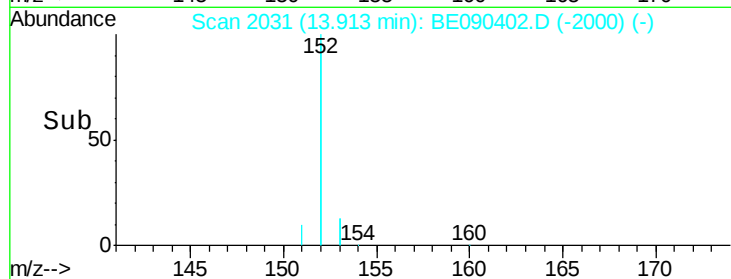
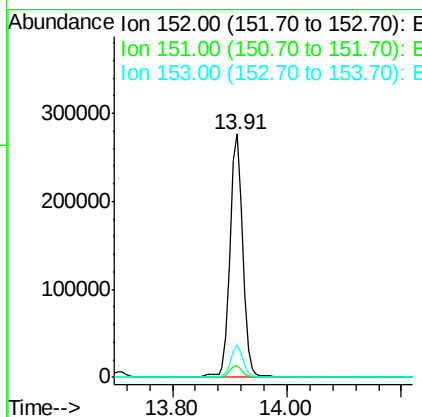
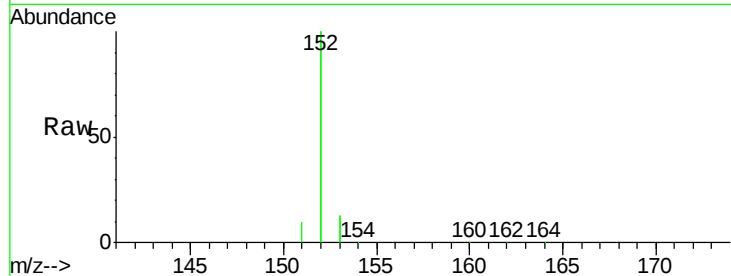
#15
Acenaphthylene
Concen: 4.26 ng
RT: 13.91 min Scan# 2031
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	12.9	10.3	15.5

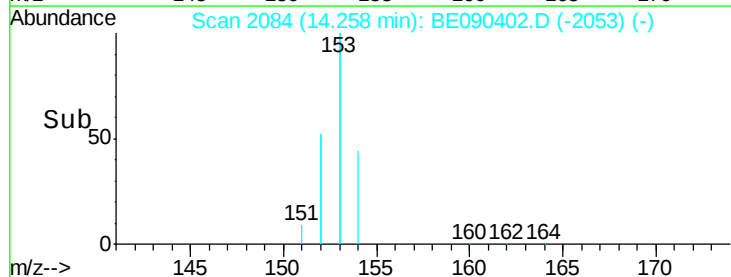
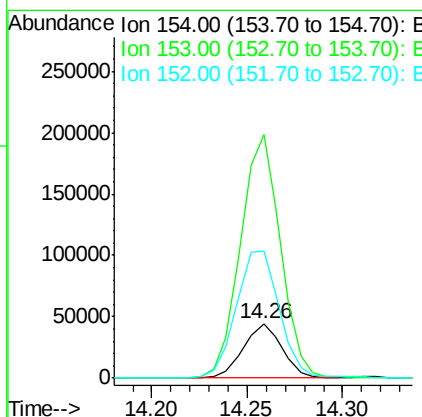
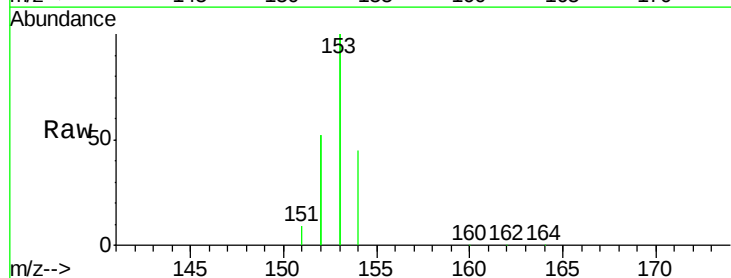
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#16
Acenaphthene
Concen: 4.11 ng
RT: 14.26 min Scan# 2084
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
154	100		
153	461.4	376.2	564.2
152	259.0	235.0	352.4





#17

Fluorene

Concen: 4.27 ng

RT: 15.26 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

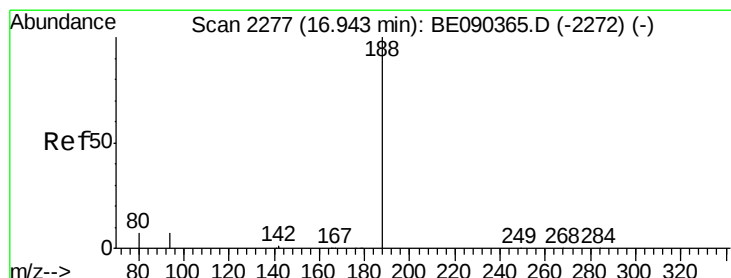
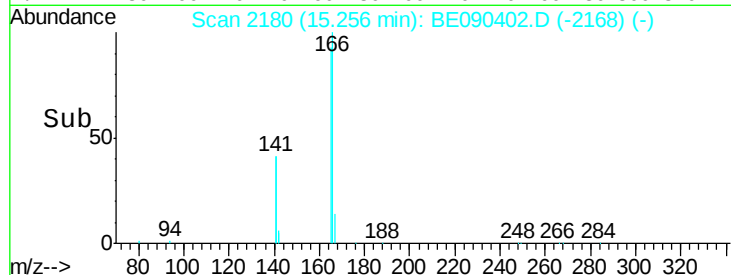
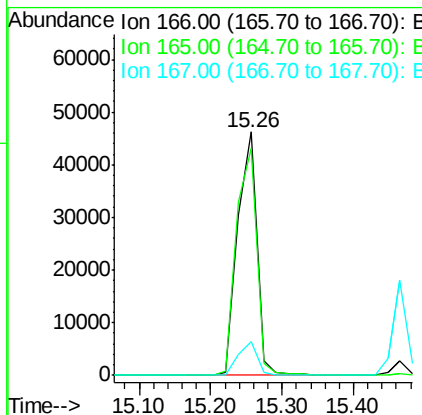
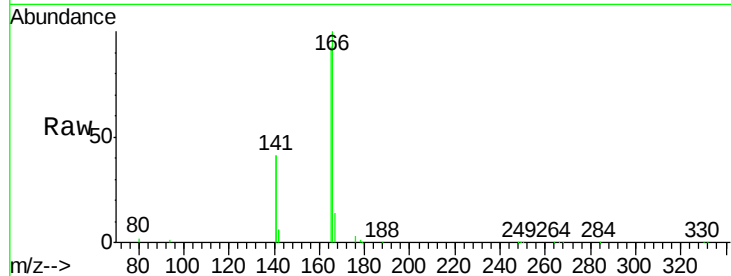
ClientSampleId :

PB84793BSD

Tot Ion:	166	Resp:	84317
Ion Ratio	Lower	Upper	
166	100		
165	99.0	81.5	122.3
167	13.4	11.4	17.0

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#18

Phenanthrene-d10

Concen: 5.00 ng

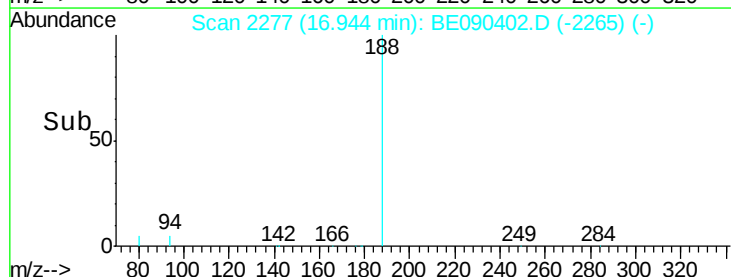
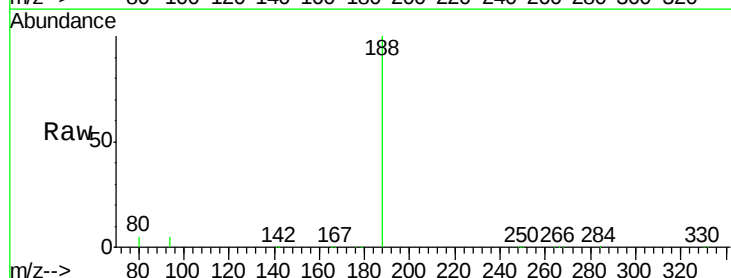
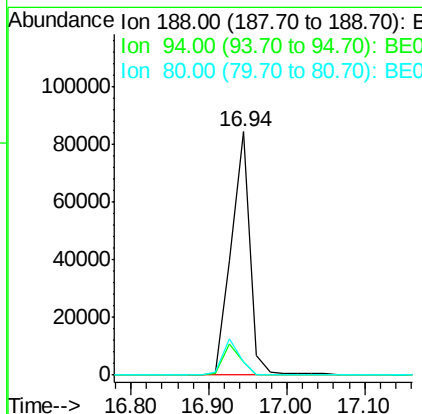
RT: 16.94 min Scan# 2277

Delta R.T. 0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	188	Resp:	140452
Ion Ratio	Lower	Upper	
188	100		
94	5.2	5.7	8.5#
80	5.3	5.8	8.8#





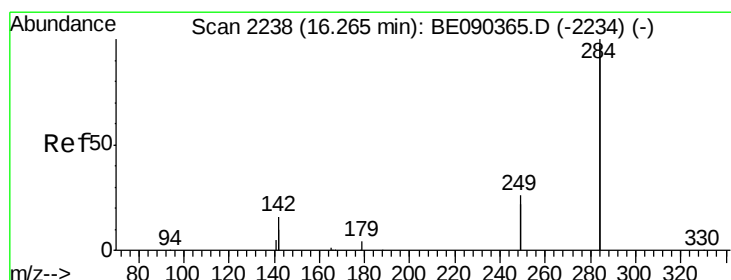
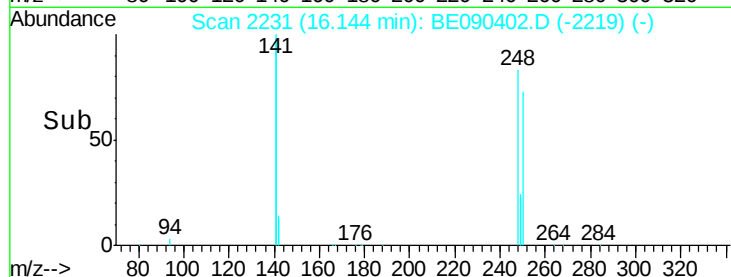
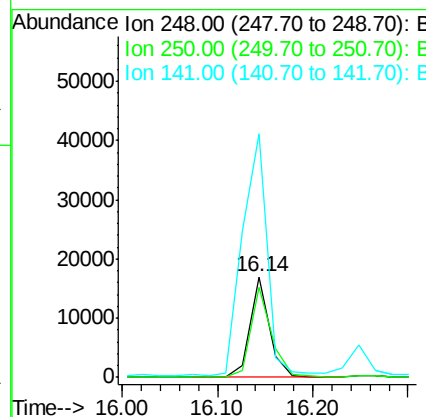
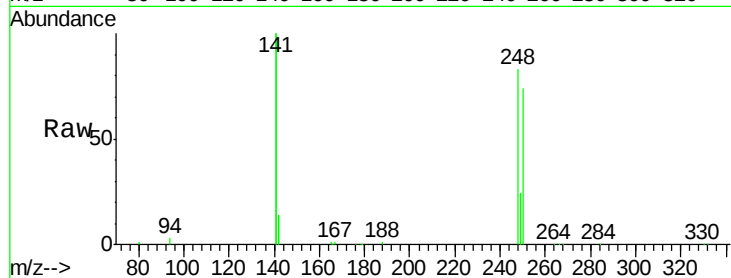
#19
4-Bromophenyl-phenylether
Concen: 4.39 ng
RT: 16.14 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampled :
PB84793BSD

Tot Ion	Ratio	Lower	Upper
248	100		
250	93.6	79.0	118.6
141	302.8	239.5	359.3

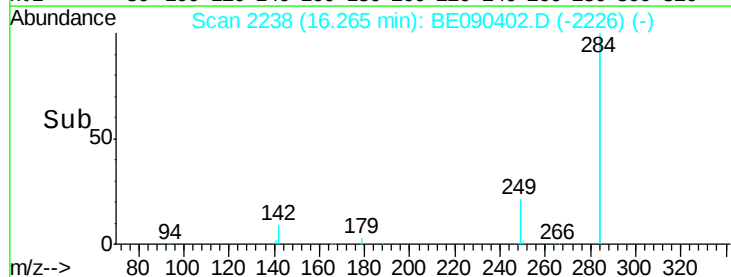
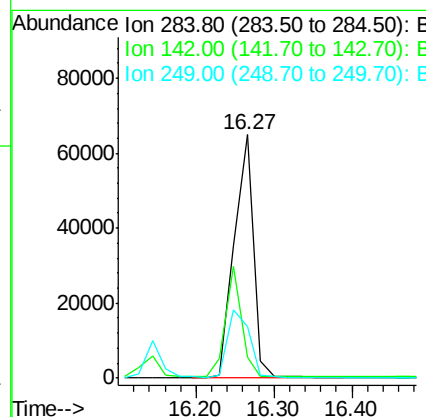
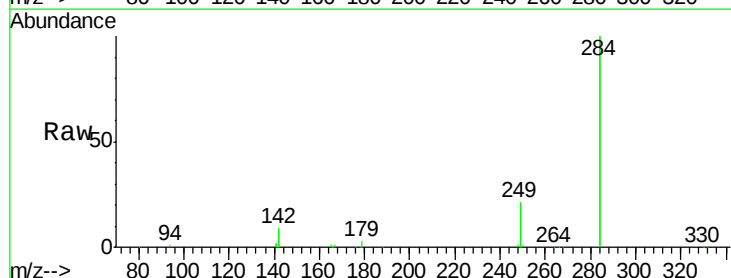
Manual Integrations
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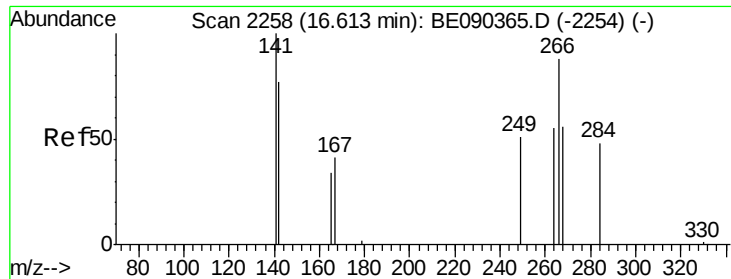
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#20
Hexachlorobenzene
Concen: 3.89 ng
RT: 16.27 min Scan# 2238
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.9	30.1	45.1
249	31.0	25.7	38.5





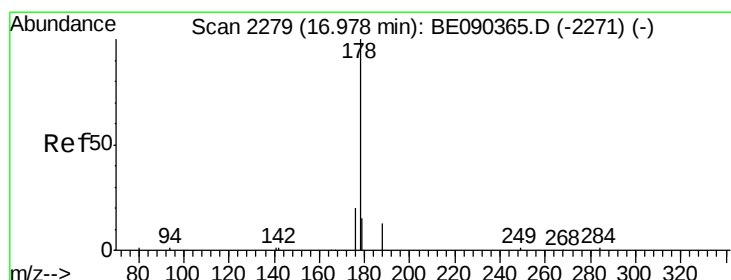
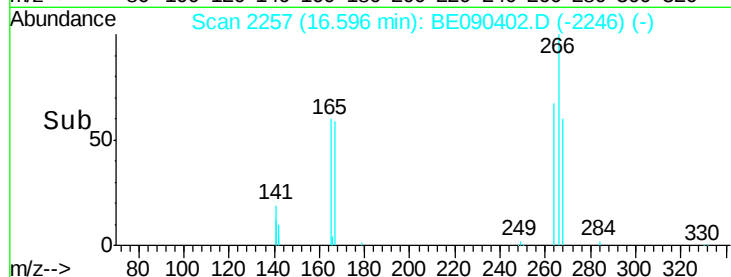
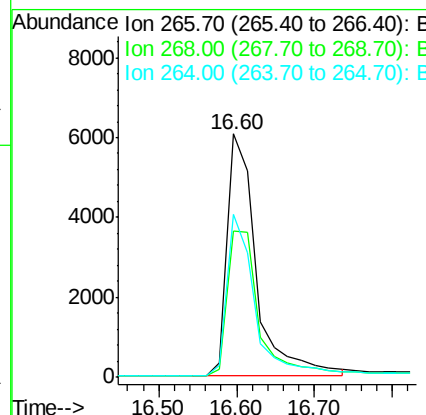
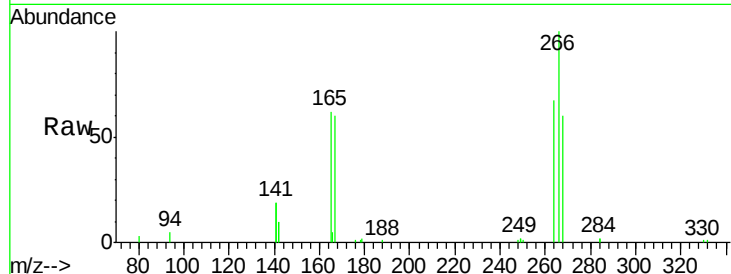
#21
 Pentachlorophenol
 Concen: 7.35 ng
 RT: 16.60 min Scan# 2257
 Delta R.T. -0.02 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Instrument :
 BNA_E
 ClientSampleID :
 PB84793BSD

Tot Ion	Ratio	Resp	Lower	Upper
266	100	15617		
268	60.0		58.5	87.7
264	67.1		56.0	84.0

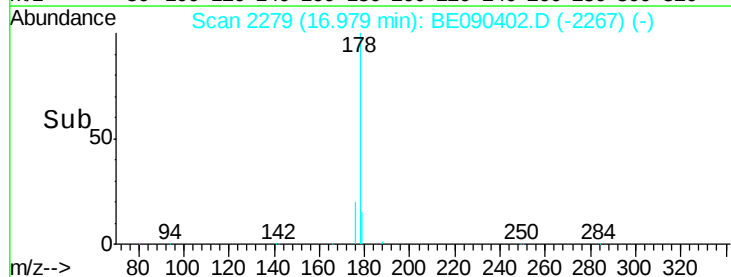
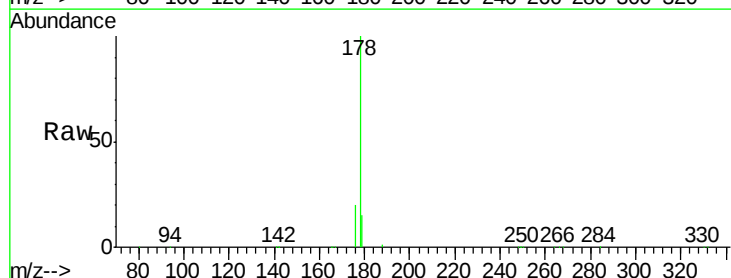
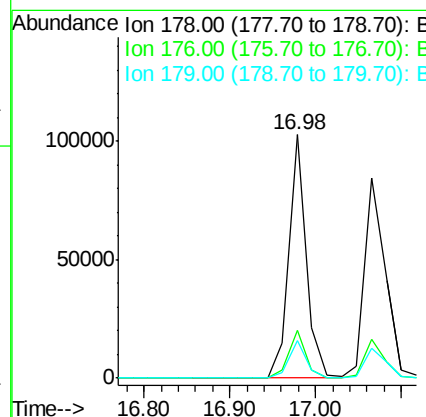
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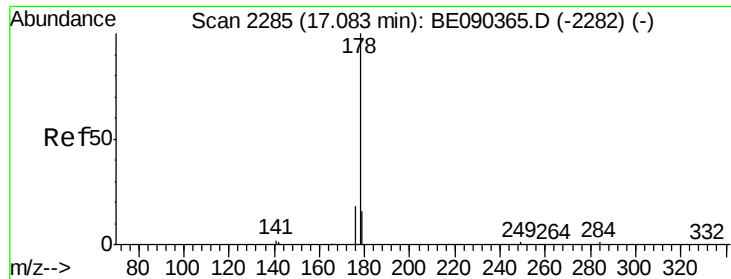
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#22
 Phenanthrene
 Concen: 4.17 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	146728		
176	19.4		15.4	23.2
179	15.3		12.5	18.7





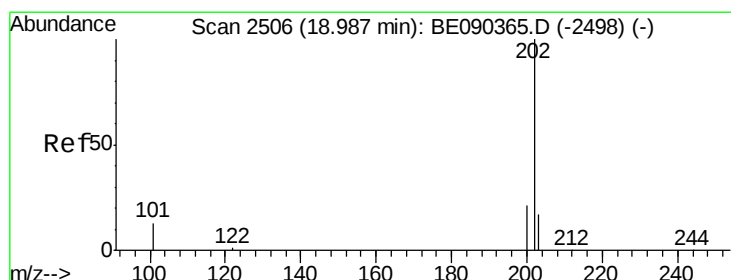
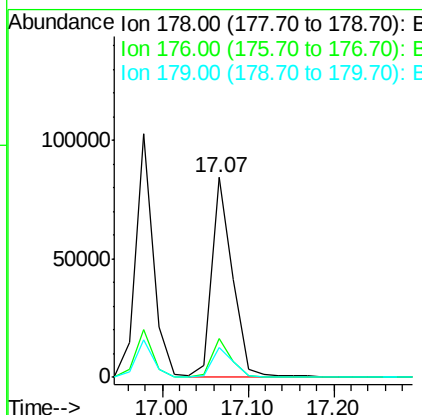
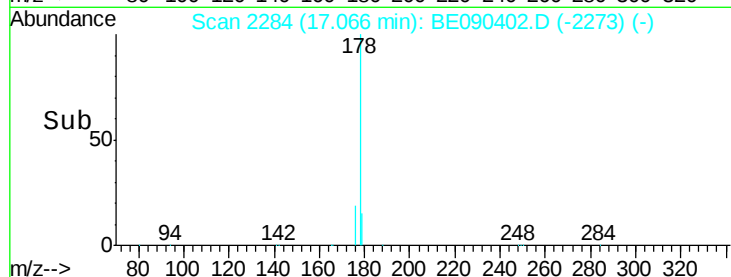
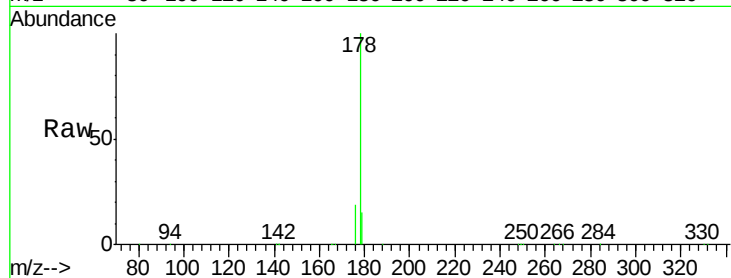
#23
 Anthracene
 Concen: 4.88 ng
 RT: 17.07 min Scan# 2284
 Delta R.T. -0.02 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Instrument :
 BNA_E
 ClientSampleId :
 PB84793BSD

Tot Ion:	178	Resp:	141005
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.9	22.3
179	15.4	12.2	18.4

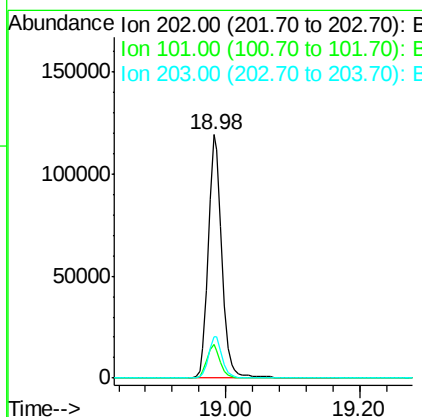
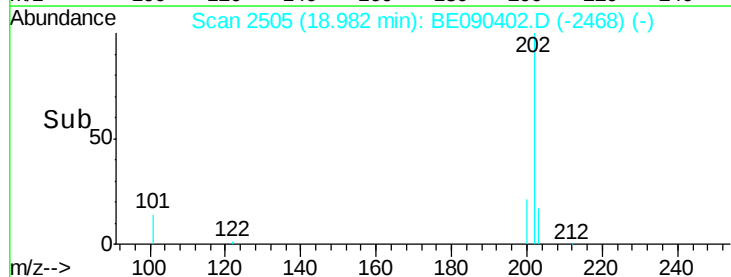
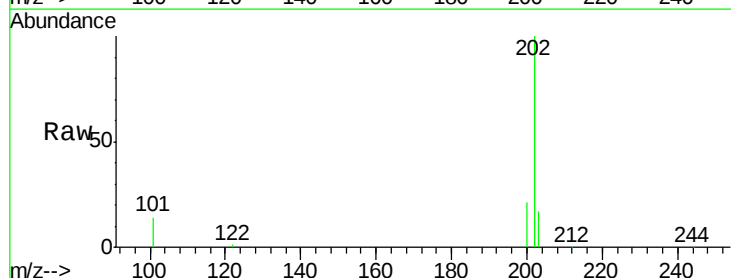
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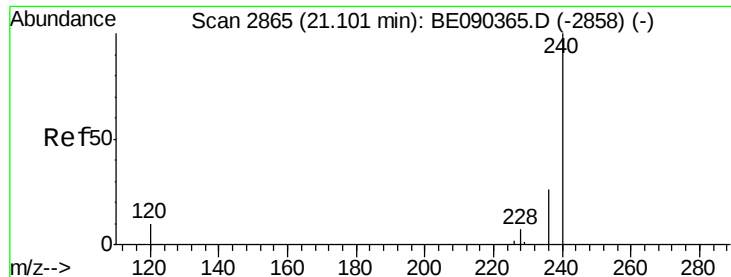
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#24
 Fluoranthene
 Concen: 4.85 ng
 RT: 18.98 min Scan# 2505
 Delta R.T. -0.01 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Tgt Ion:	202	Resp:	167779
Ion Ratio	Lower	Upper	
202	100		
101	13.2	10.3	15.5
203	17.2	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: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

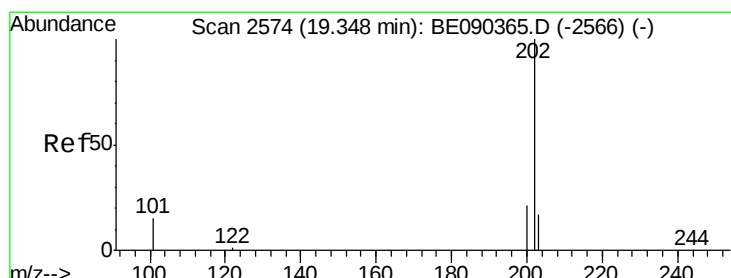
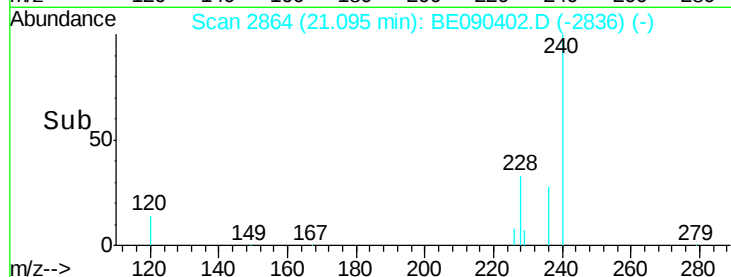
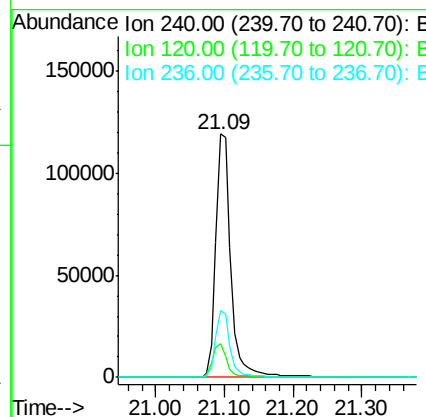
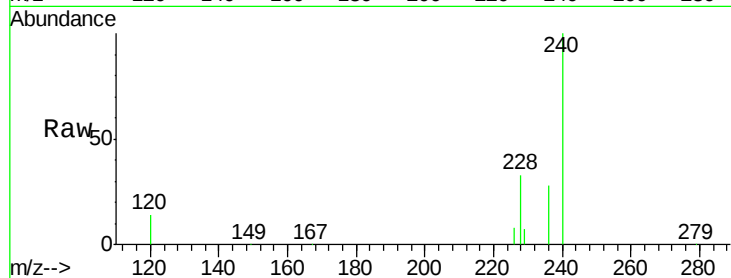
ClientSampleId :

PB84793BSD

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.8	8.3	12.5#
236	27.8	21.0	31.4

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#26

Pyrene

Concen: 4.72 ng

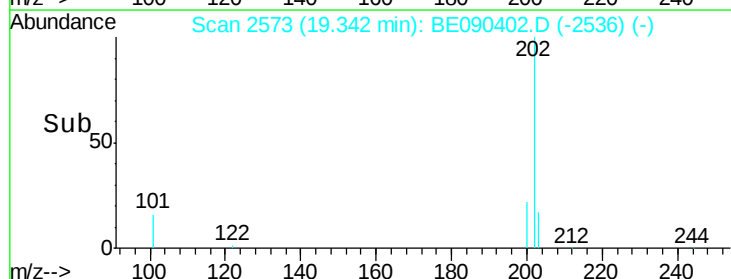
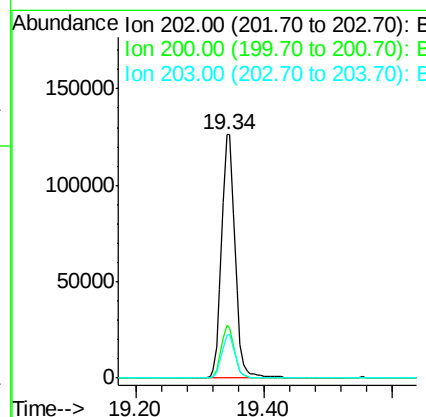
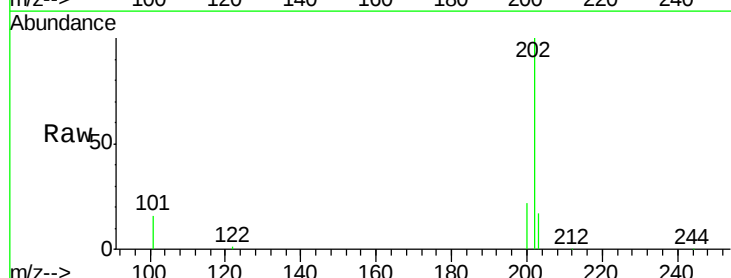
RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	18.1	13.8	20.8





#27

Terphenyl-d14

Concen: 4.69 ng

RT: 19.55 min Scan# 2613

Delta R.T. -0.01 min

Lab File: BE090402.D

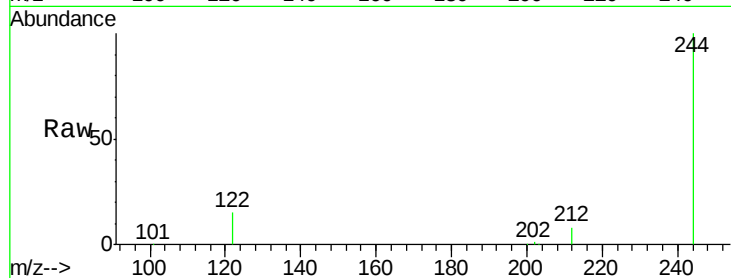
Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

ClientSampleId :

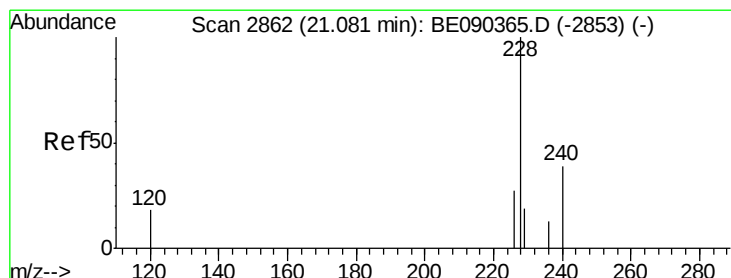
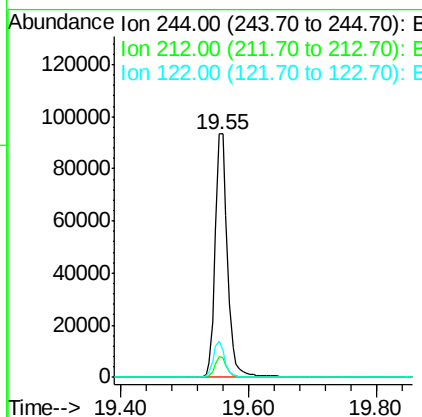
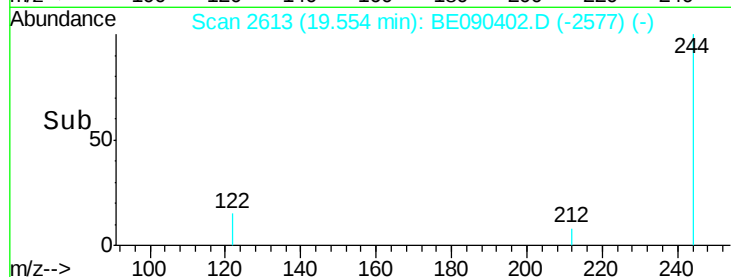
PB84793BSD



Tot Ion:	244	Resp:	125306
Ion Ratio	Lower	Upper	
244	100		
212	8.4	6.6	9.8
122	15.0	10.2	15.4

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#28

Benzo(a)anthracene

Concen: 4.51 ng

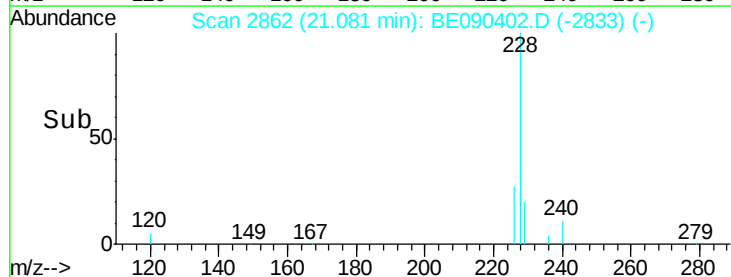
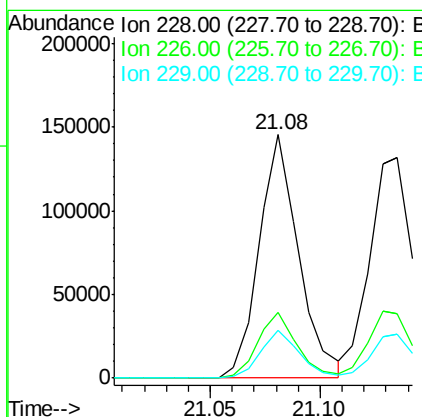
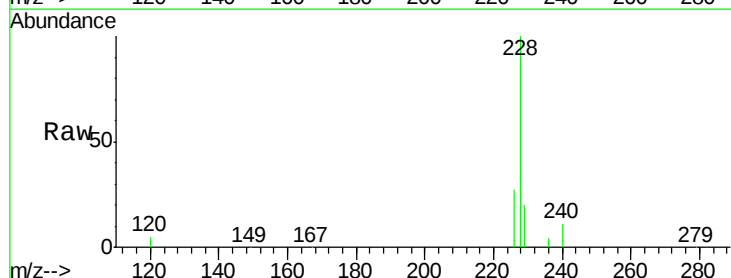
RT: 21.08 min Scan# 2862

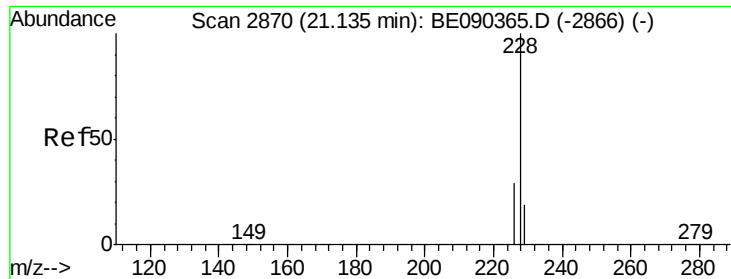
Delta R.T. 0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	228	Resp:	181118
Ion Ratio	Lower	Upper	
228	100		
226	26.8	21.9	32.9
229	19.7	15.4	23.0





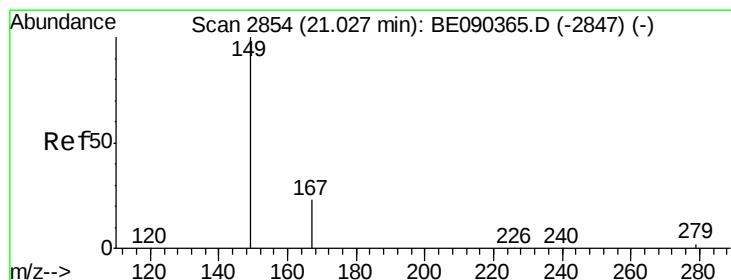
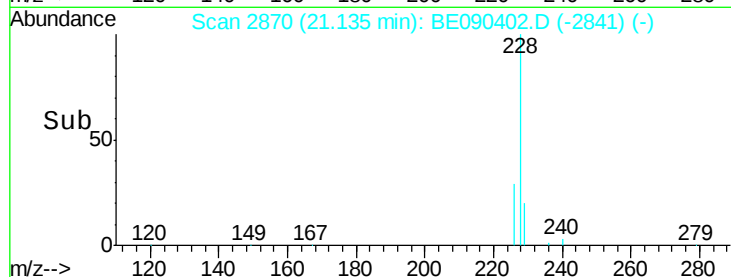
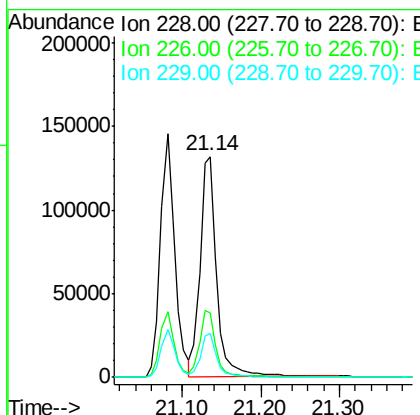
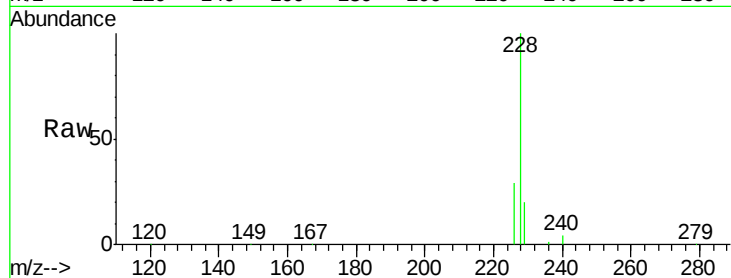
#29
Chrysene
Concen: 4.04 ng
RT: 21.14 min Scan# 2870
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

Tot Ion	Ratio	Resp	Lower	Upper
228	100	195964		
226	28.9		23.1	34.7
229	19.7		15.8	23.8

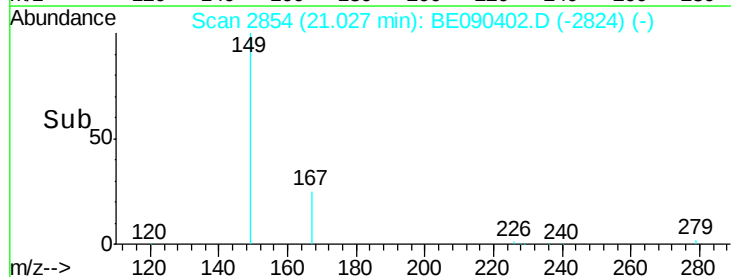
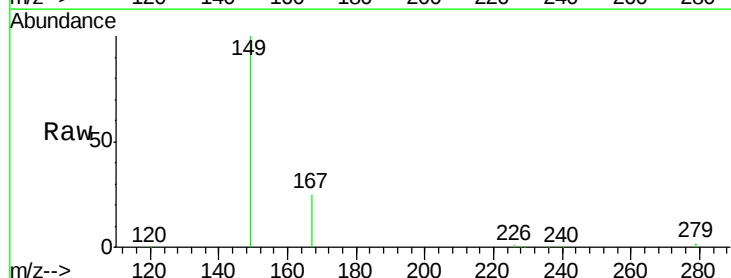
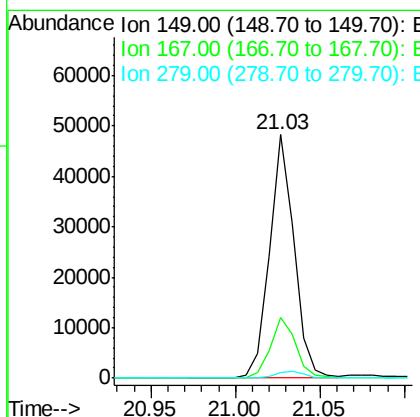
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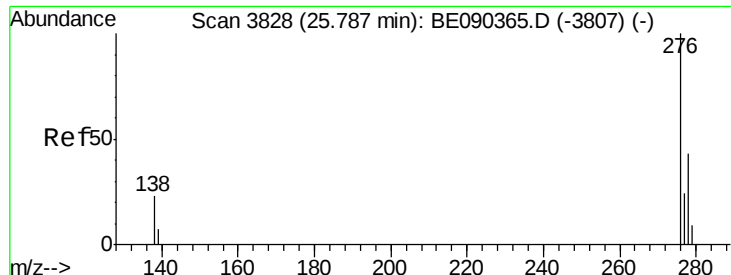
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#30
Bis(2-ethylhexyl)phthalate
Concen: 3.70 ng
RT: 21.03 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	48145		
167	25.5		19.8	29.8
279	3.0		2.4	3.6





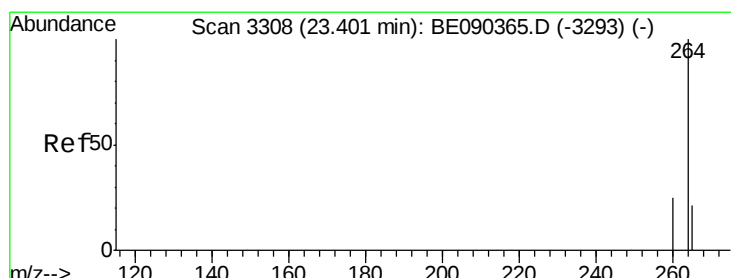
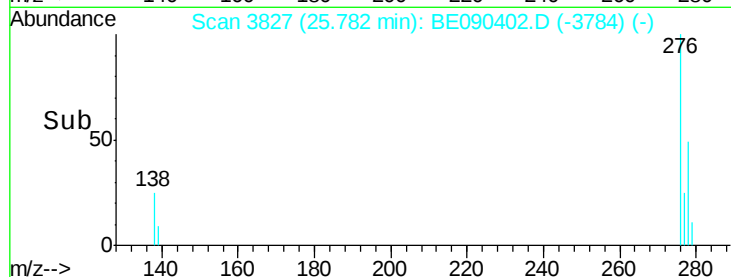
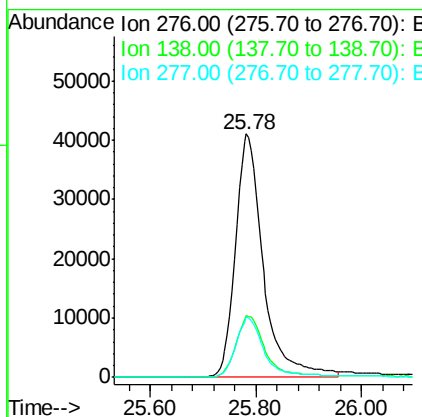
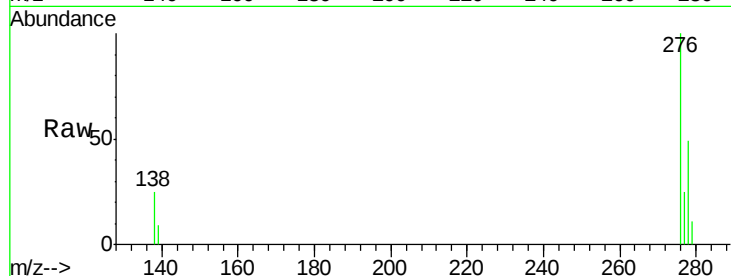
#31
Indeno(1,2,3-cd)pyrene
Concen: 3.50 ng
RT: 25.78 min Scan# 3827
Delta R.T. -0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

Tot Ion	Ratio	Resp	Lower	Upper
276	100	149677		
138	26.5		18.8	28.2
277	24.9		18.2	27.4

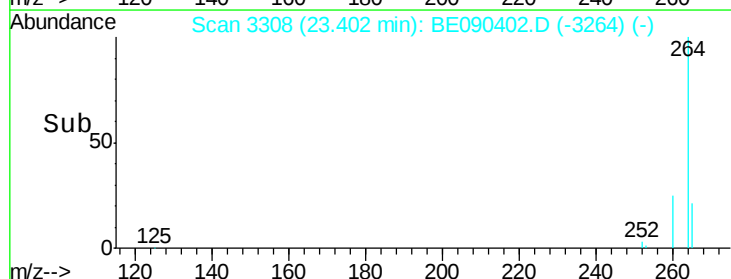
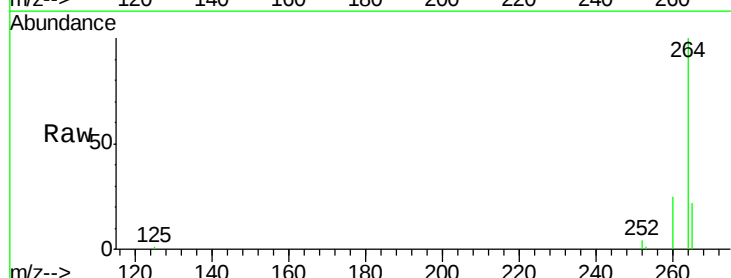
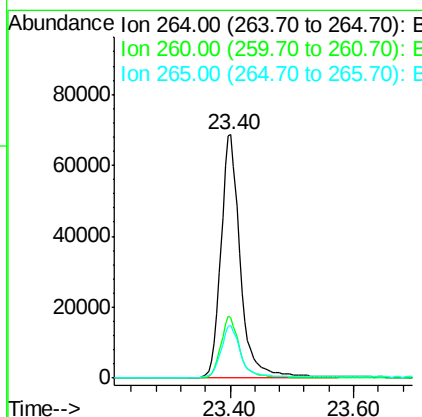
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#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3308
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	150300		
260	24.9		20.1	30.1
265	21.8		17.2	25.8





#33

Benzo(b)fluoranthene

Concen: 4.32 ng

RT: 22.70 min Scan# 3153

Delta R.T. -0.01 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Instrument :

BNA_E

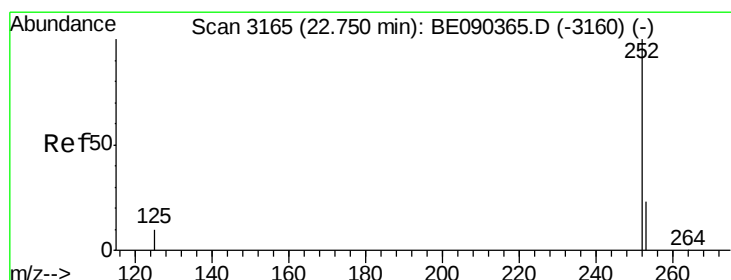
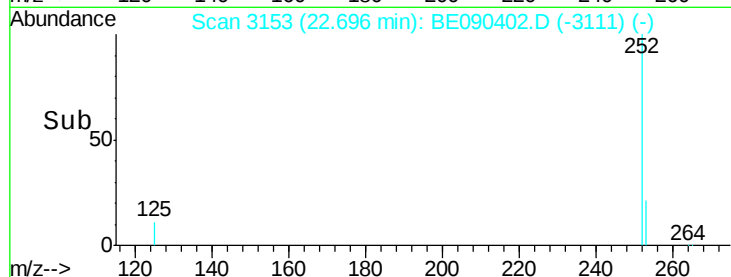
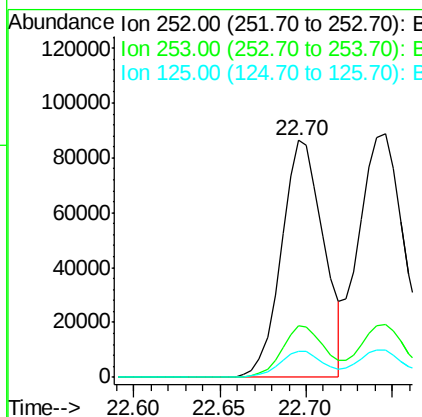
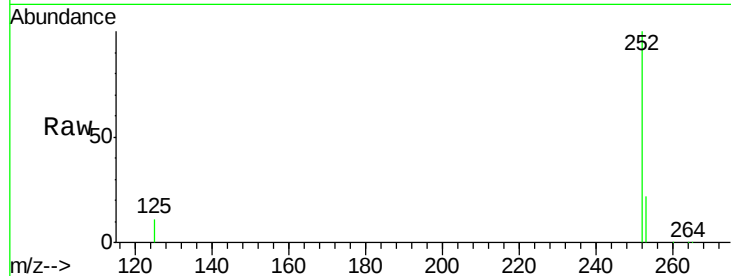
ClientSampleId :

PB84793BSD

Tot Ion:	252	Resp:	145932
Ion Ratio	Lower	Upper	
252	100		
253	21.6	18.1	27.1
125	11.2	9.4	14.2

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#34

Benzo(k)fluoranthene

Concen: 4.45 ng m

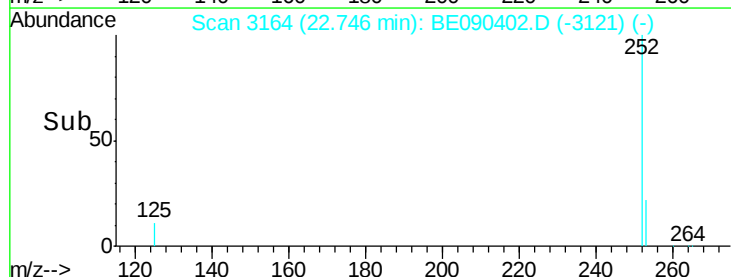
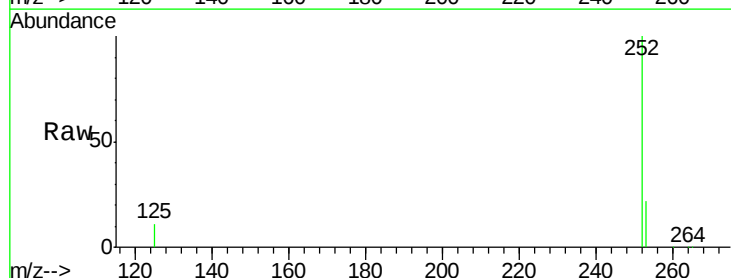
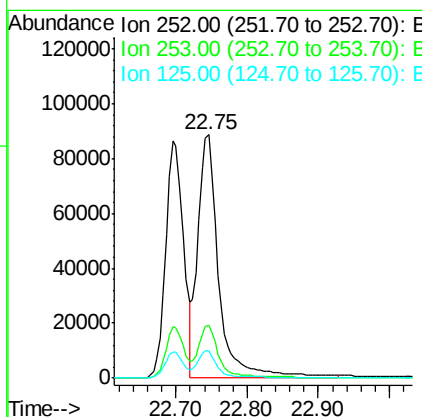
RT: 22.75 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BE090402.D

Acq: 7 Aug 2015 17:52

Tgt Ion:	252	Resp:	186447
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.1	27.1
125	11.1	9.1	13.7





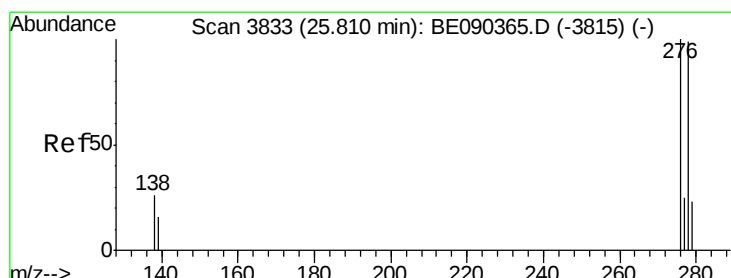
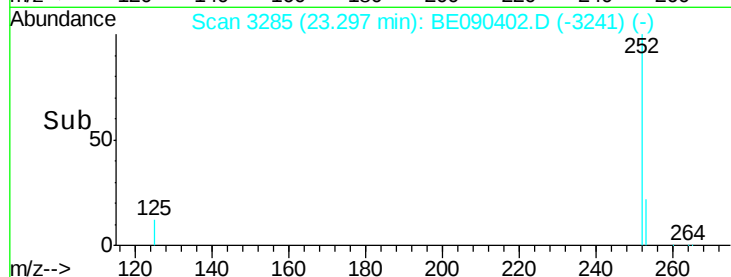
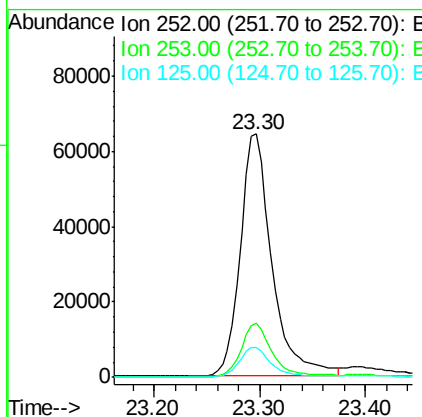
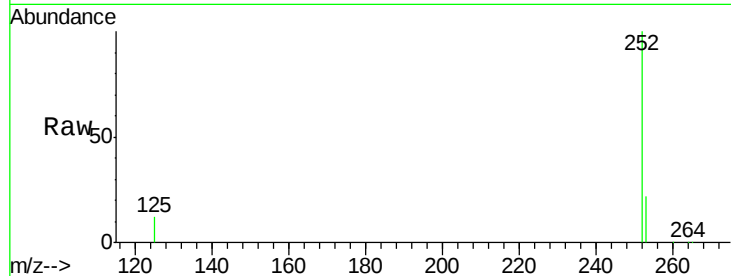
#35
Benzo(a)pyrene
Concen: 4.22 ng
RT: 23.30 min Scan# 3285
Delta R.T. 0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Instrument :
BNA_E
ClientSampleId :
PB84793BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	12.2	9.8	14.6

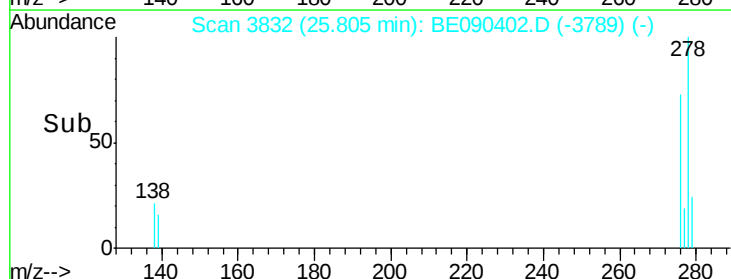
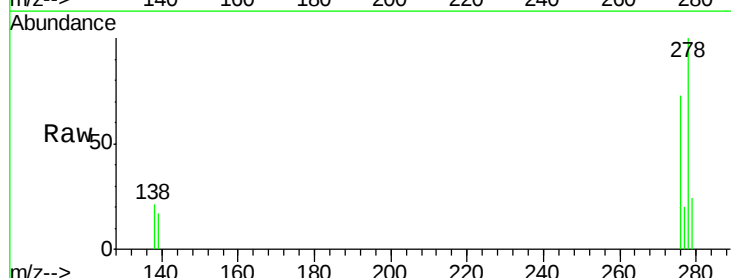
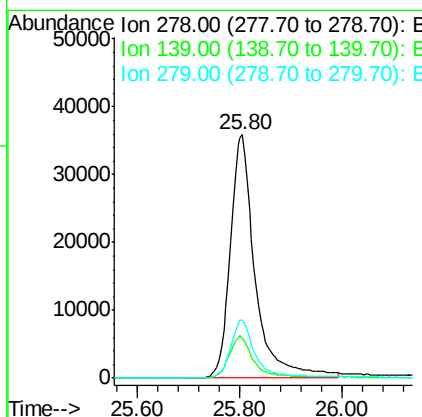
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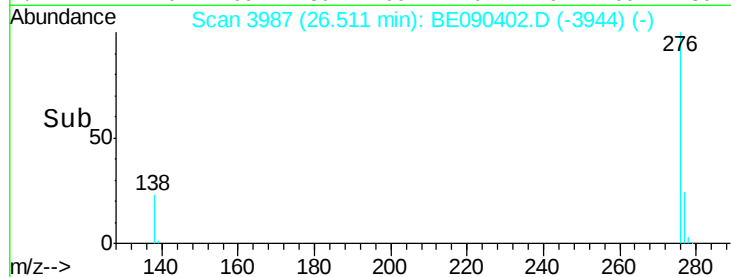
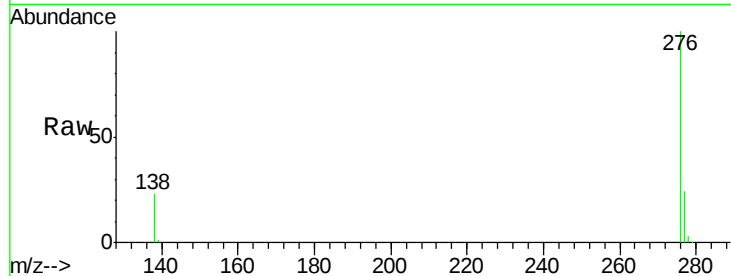
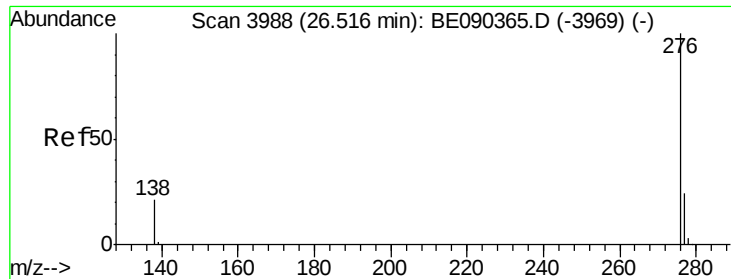
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#36
Dibenzo(a,h)anthracene
Concen: 3.89 ng
RT: 25.80 min Scan# 3832
Delta R.T. -0.00 min
Lab File: BE090402.D
Acq: 7 Aug 2015 17:52

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.6	14.2	21.4
279	23.7	20.1	30.1





#37
 Benzo(a,h,i)perylene
 Concen: 4.75 ng
 RT: 26.51 min Scan# 3987
 Delta R.T. -0.01 min
 Lab File: BE090402.D
 Acq: 7 Aug 2015 17:52

Tot Ion:	276	Resp:	131896
Ion Ratio	Lower	Upper	
276	100		
277	23.9	20.1	30.1
138	23.2	18.1	27.1

Instrument :
 BNA_E
 ClientSampleId :
 PB84793BSD

Manual Integrations
 APPROVED

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