

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088452.D
 Acq On : 1 Nov 2014 8:40
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:32 AM

Quant Time: Nov 02 04:31:42 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	21559	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	90965	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	43497	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	80631	5.00	ng	0.00
16) Chrysene-d12	18.33	240	35892	5.00	ng	0.02
22) Perylene-d12	21.39	264	34779	5.00	ng	0.02

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	42386	6.35	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	122260	9.97	ng	0.00
18) Terphenyl-d14	16.09	244	73955	11.22	ng	0.02

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.25	88	2679	0.95	ng	98
5) Naphthalene	8.68	128	18158	0.96	ng	98
6) 2-Methylnaphthalene	9.53	142	11170	0.96	ng	97
9) Acenaphthylene	10.63	152	65558	0.93	ng	99
10) Acenaphthene	10.84	154	9484	0.91	ng	98
11) Fluorene	11.49	166	10081	0.91	ng	99
13) Phenanthrene	12.95	178	69696	0.95	ng	96
14) Anthracene	13.04	178	54298	0.92	ng	100
15) Fluoranthene	15.19	202	12327	1.04	ng	100
17) Pyrene	15.65	202	12551	1.07	ng	99
19) Benzo(a)anthracene	18.31	228	36643	1.08	ng	98
20) Chrysene	18.38	228	36462	1.10	ng	98
21) Indeno(1,2,3-cd)pyrene	23.57	276	42675m	1.38	ng	
23) Benzo(b)fluoranthene	20.63	252	10883	1.43	ng	98
24) Benzo(k)fluoranthene	20.69	252	8623	1.03	ng	97
25) Benzo(a)pyrene	21.27	252	8987	1.23	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	6923	1.02	ng	95
27) Benzo(g,h,i)perylene	24.20	276	38890	1.25	ng	99

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

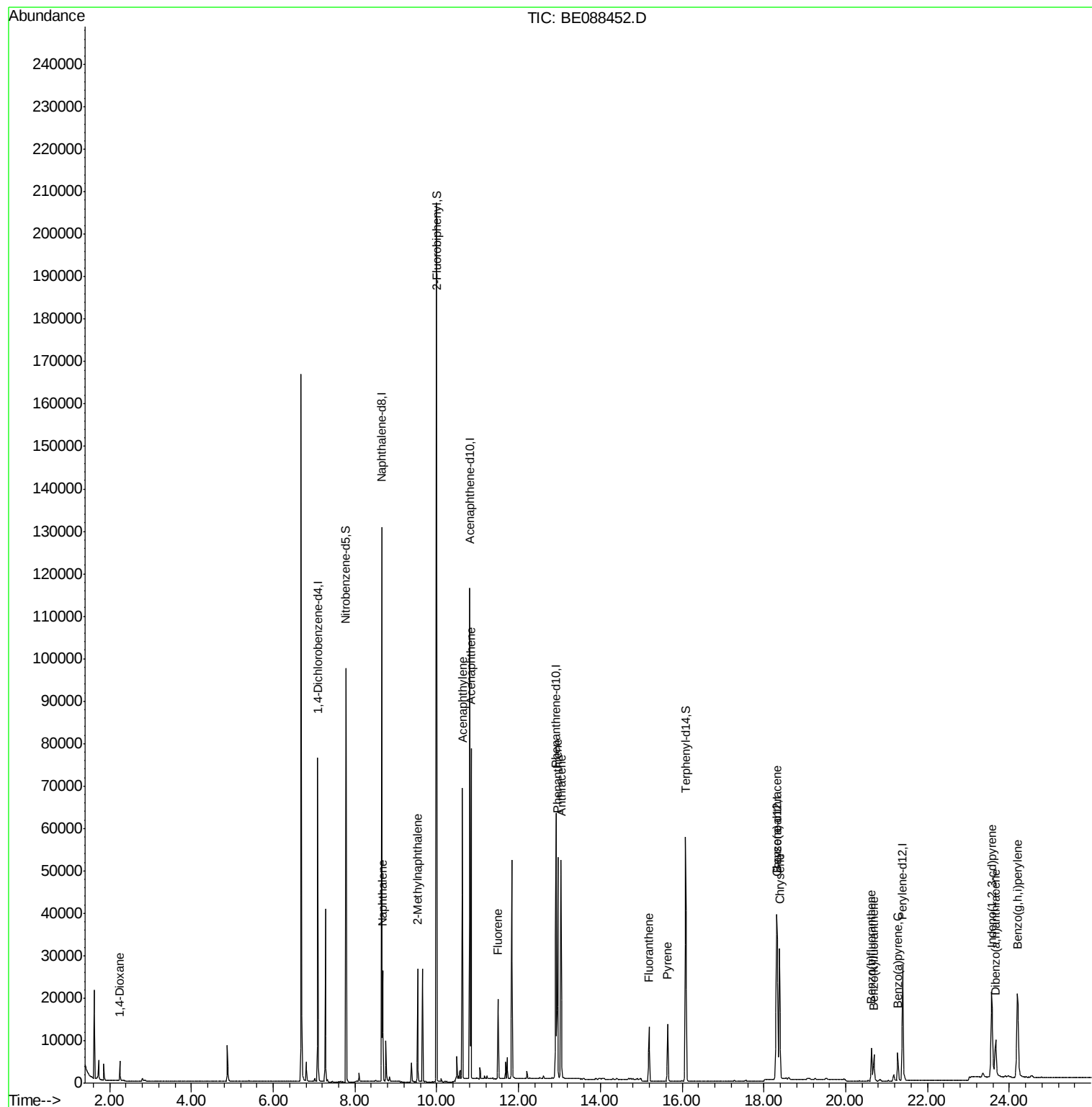
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088452.D
Acq On : 1 Nov 2014 8:40
Operator : TP/JJ
Sample : SSTDCCC001
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 01 00:42:07 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088452.D

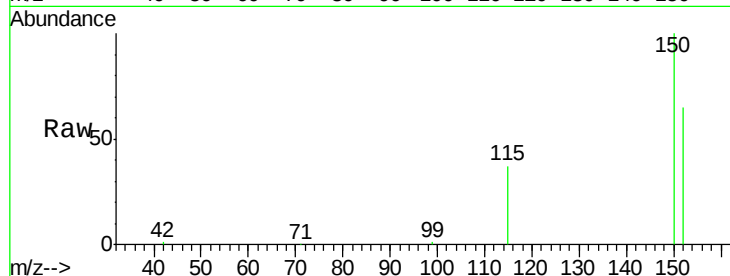
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 152 Resp: 21559

Ion Ratio Lower Upper

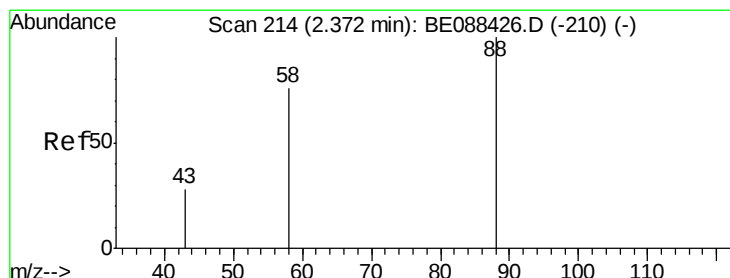
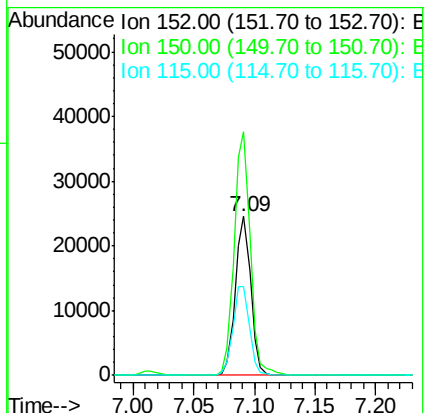
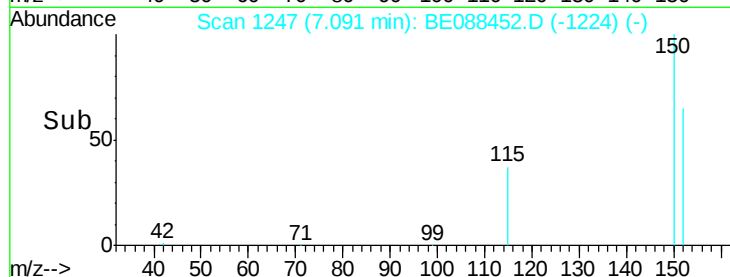
152 100

150 153.4 121.8 182.8

115 56.3 43.9 65.9

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#2

1,4-Dioxane

Concen: 0.95 ng

RT: 2.25 min Scan# 187

Delta R.T. -0.13 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

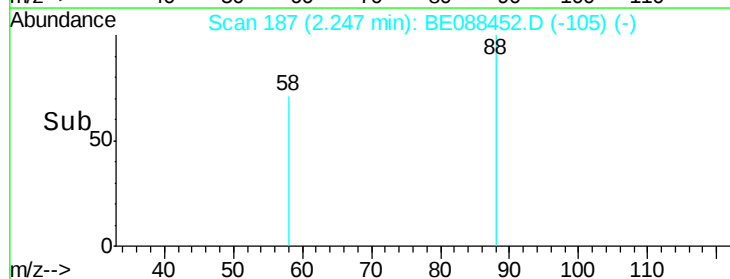
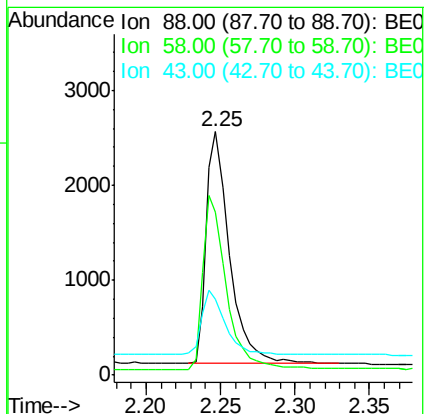
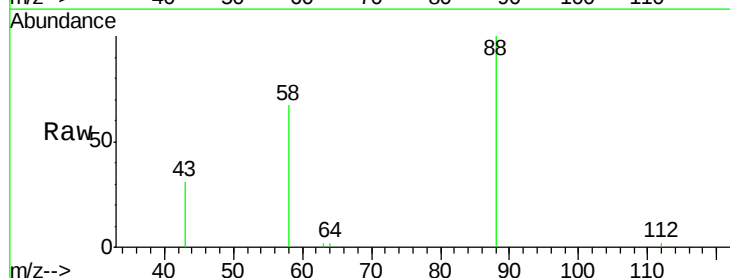
Tgt Ion: 88 Resp: 2679

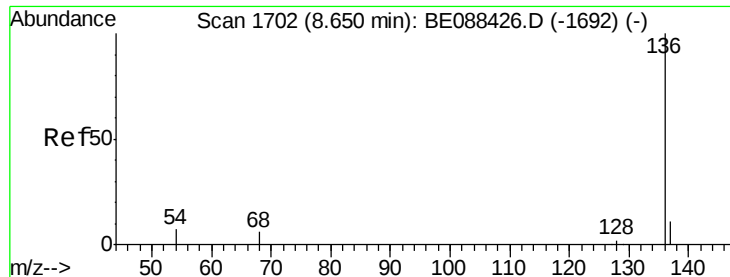
Ion Ratio Lower Upper

88 100

58 75.7 59.1 88.7

43 27.8 21.9 32.9





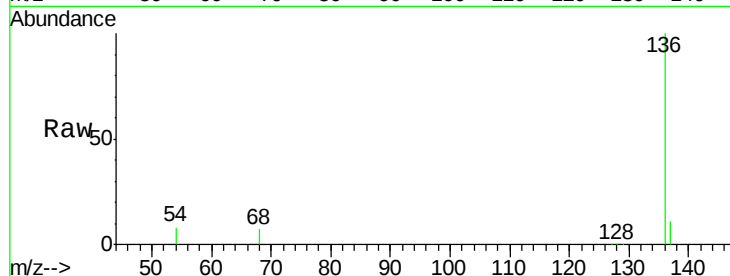
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	90965		
137	10.8	8.8	13.2	
54	7.9	5.3	7.9	

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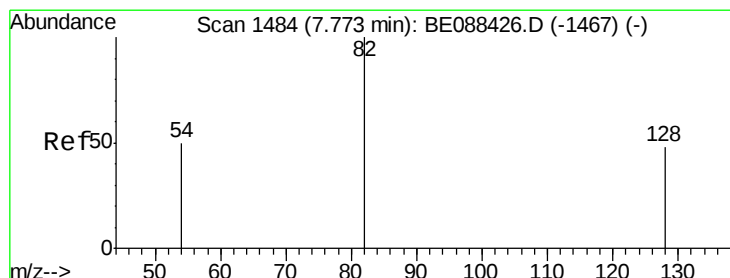
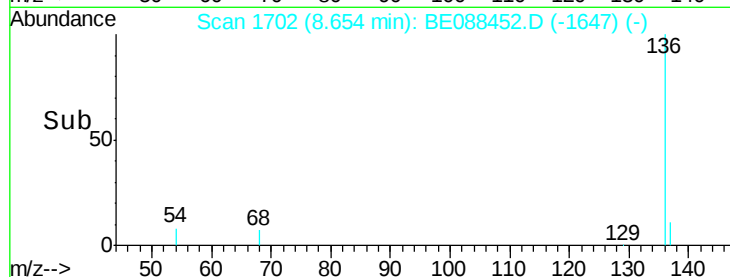
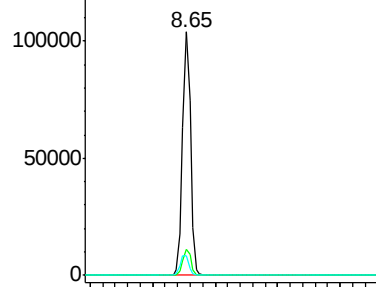
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Abundance Ion 136.00 (135.70 to 136.70): BE088452.D (-1692) (-)

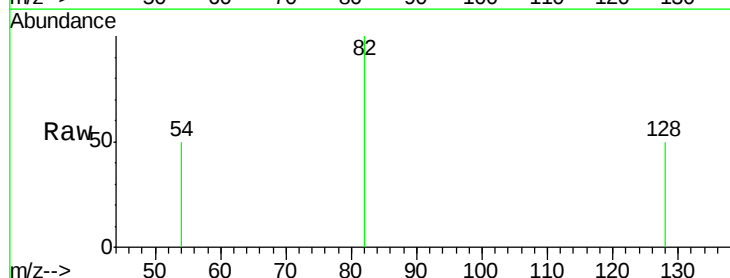
Ion 137.00 (136.70 to 137.70): BE088452.D (-1692) (-)

Ion 54.00 (53.70 to 54.70): BE088452.D (-1692) (-)



#4
Nitrobenzene-d5
Concen: 6.35 ng
RT: 7.78 min Scan# 1487
Delta R.T. 0.01 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

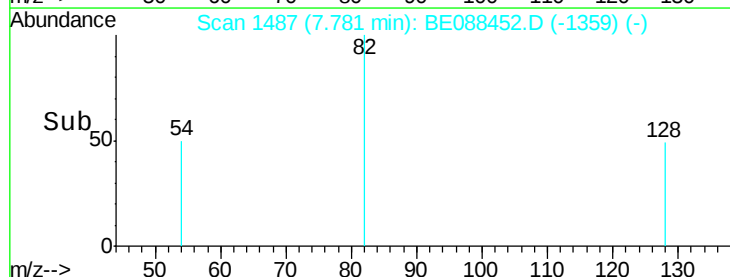
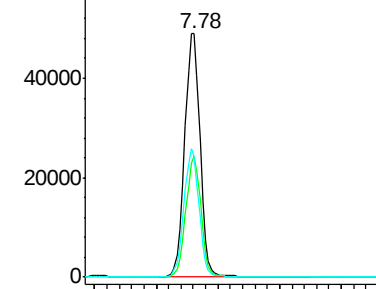
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	42386		
128	49.5	38.4	57.6	
54	49.7	40.2	60.2	



Abundance Ion 82.00 (81.70 to 82.70): BE088452.D (-1359) (-)

Ion 128.00 (127.70 to 128.70): BE088452.D (-1359) (-)

Ion 54.00 (53.70 to 54.70): BE088452.D (-1359) (-)





#5

Naphthalene

Concen: 0.96 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088452.D

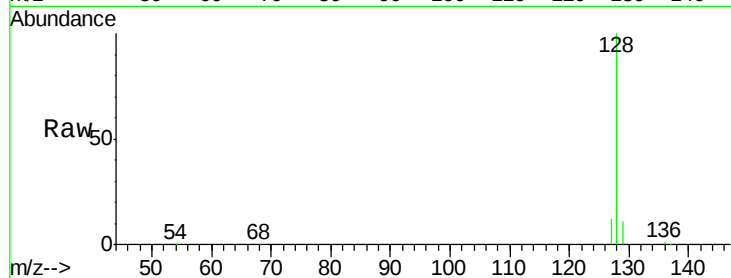
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

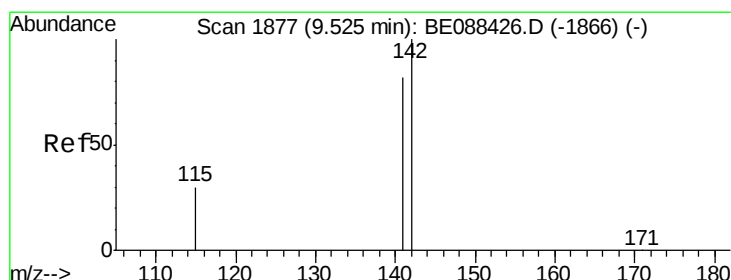
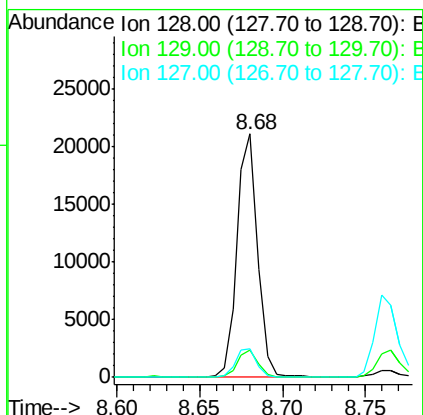
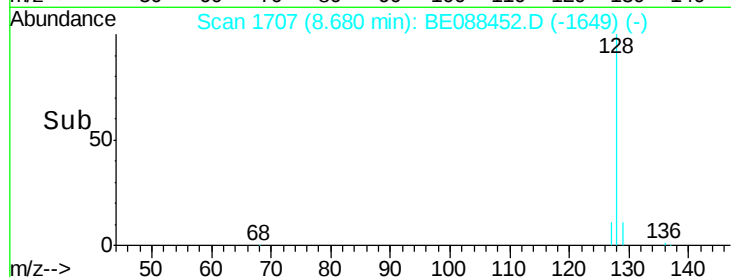
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Tgt Ion:	128	Resp:	18158
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.6	12.8
127	11.6	10.1	15.1

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#6

2-Methylnaphthalene

Concen: 0.96 ng

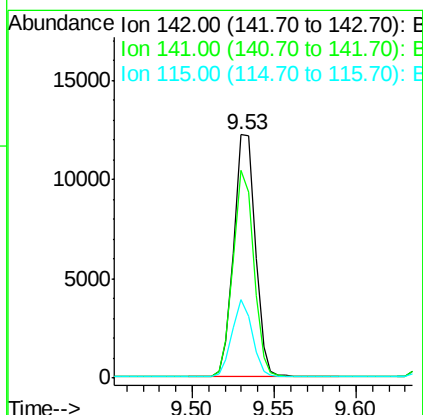
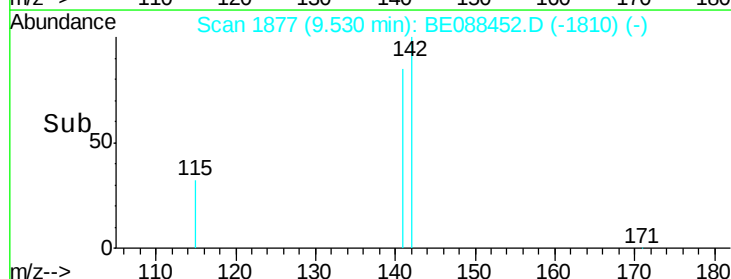
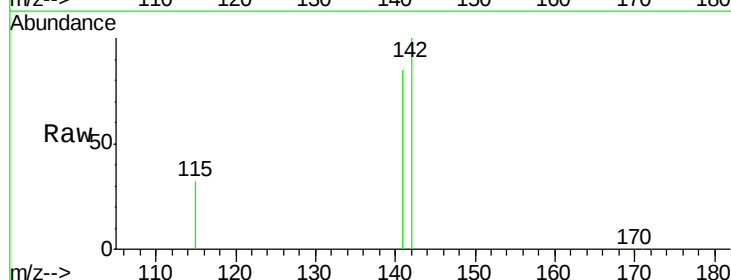
RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Tgt Ion:	142	Resp:	11170
Ion Ratio	Lower	Upper	
142	100		
141	85.1	65.8	98.8
115	32.4	24.2	36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2109

Delta R.T. 0.01 min

Lab File: BE088452.D

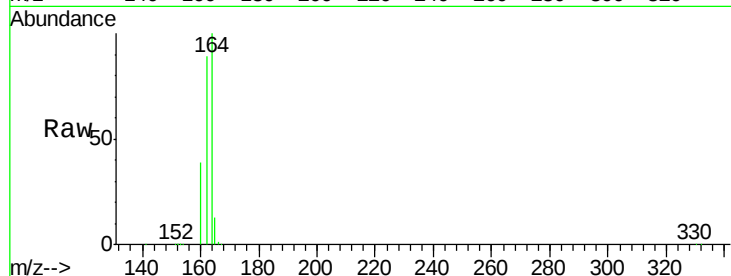
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

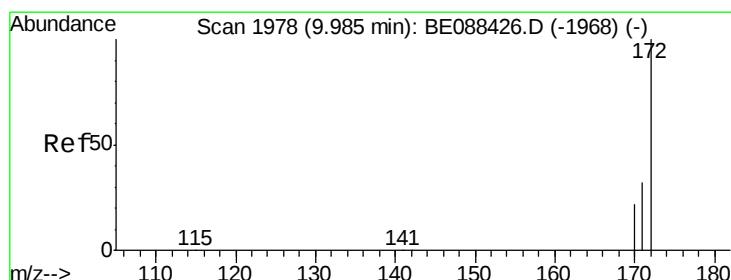
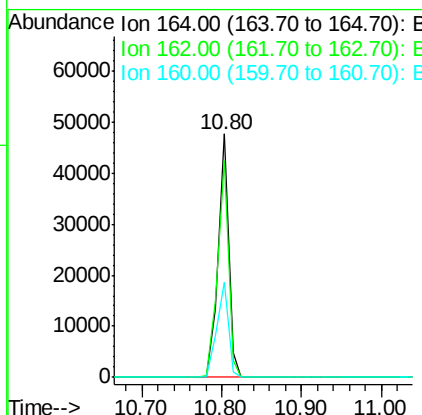
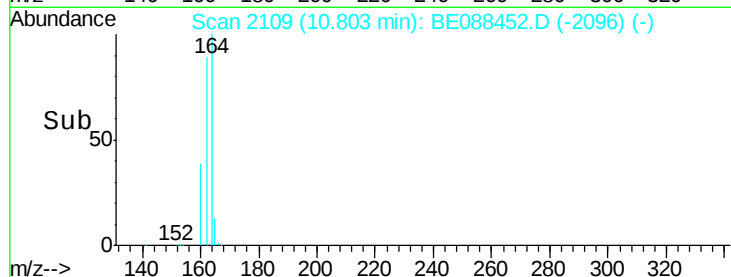
SSTDCCC001EC



Tgt Ion:	164	Resp:	43497
Ion Ratio	Lower	Upper	
164	100		
162	89.1	77.0	115.4
160	39.3	36.8	55.2

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#8

2-Fluorobiphenyl

Concen: 9.97 ng

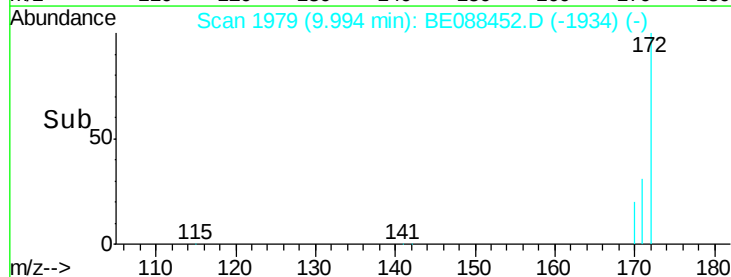
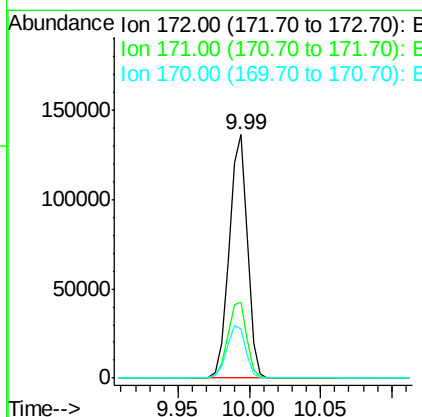
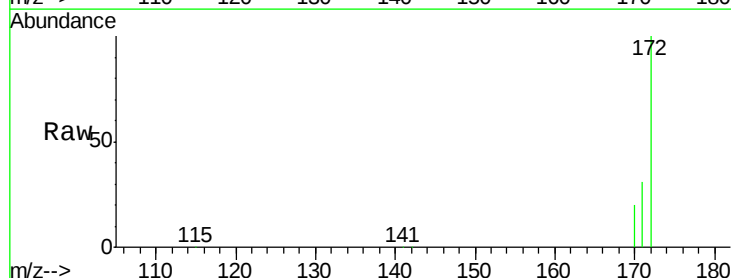
RT: 9.99 min Scan# 1979

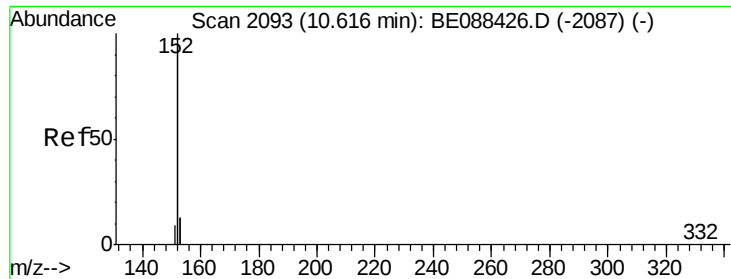
Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Tgt Ion:	172	Resp:	122260
Ion Ratio	Lower	Upper	
172	100		
171	31.1	26.0	39.0
170	20.4	17.6	26.4





#9

Acenaphthylene

Concen: 0.93 ng

RT: 10.63 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BE088452.D

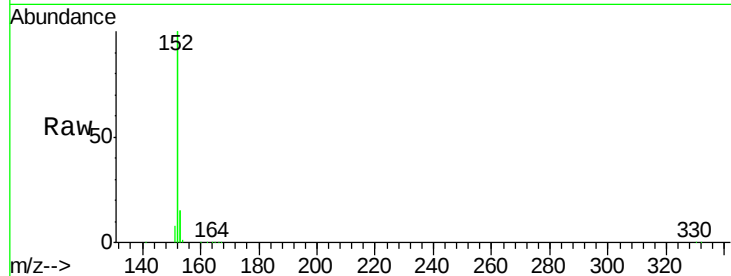
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

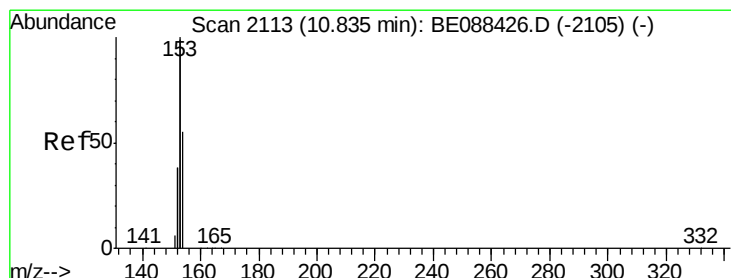
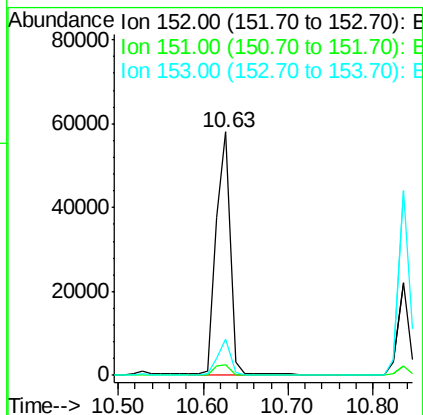
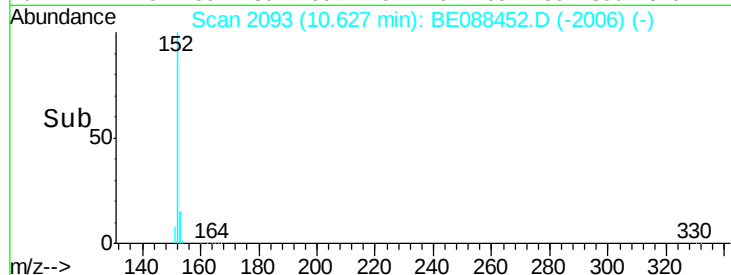
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Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.6	4.4	6.6
153	12.9	10.5	15.7

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#10

Acenaphthene

Concen: 0.91 ng

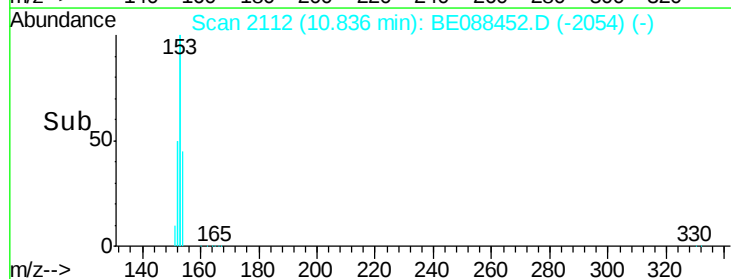
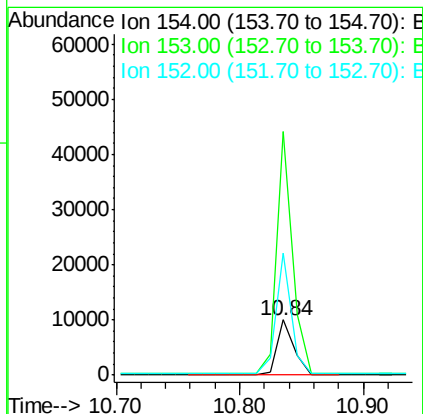
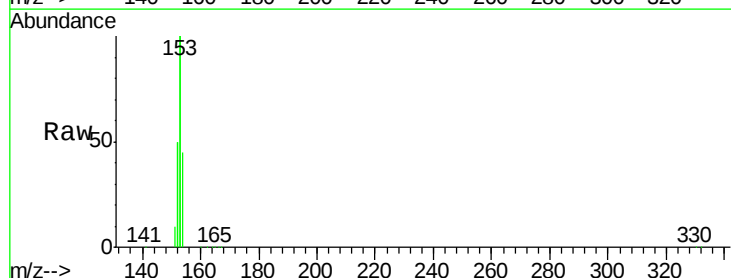
RT: 10.84 min Scan# 2112

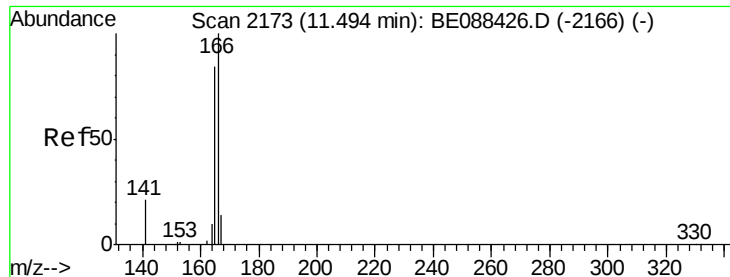
Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Tgt Ion	Ratio	Lower	Upper
154	100		
153	409.0	324.3	486.5
152	196.3	154.9	232.3





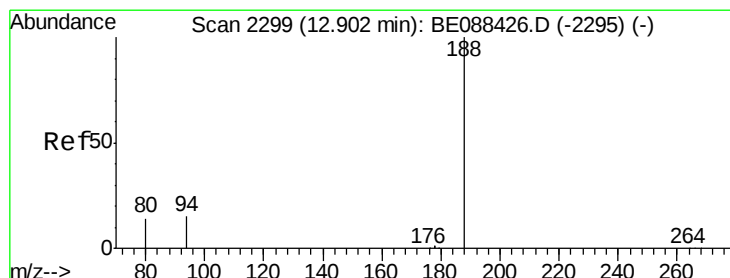
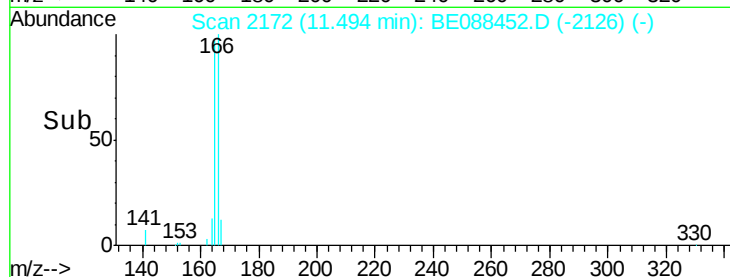
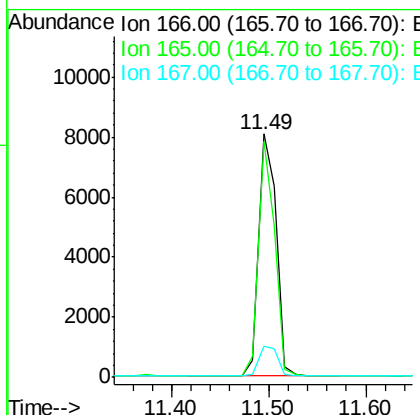
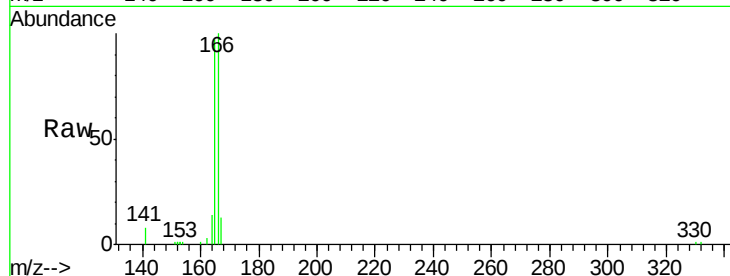
#11
Fluorene
 Concen: 0.91 ng
 RT: 11.49 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.0	71.3	106.9
167	13.3	10.7	16.1

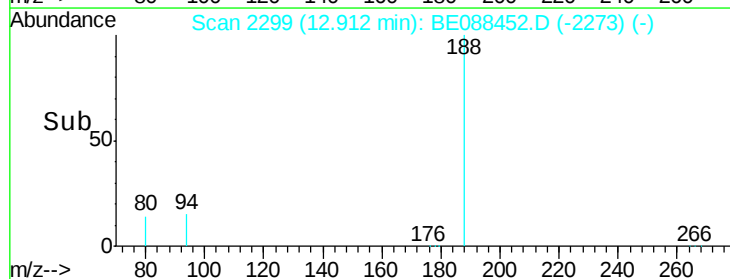
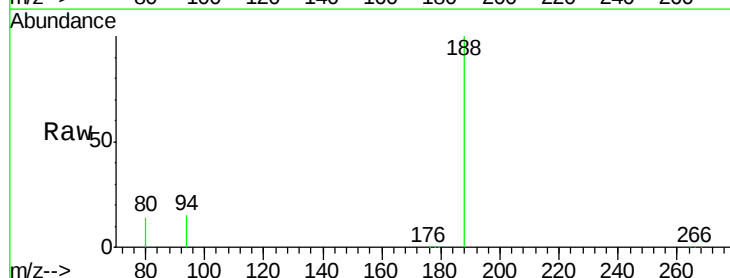
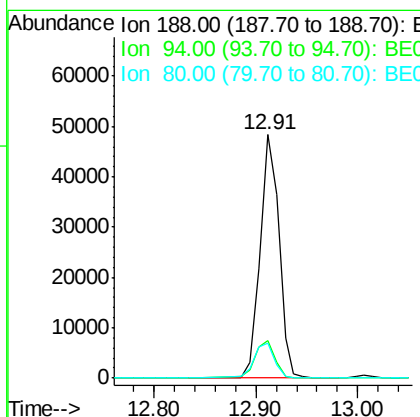
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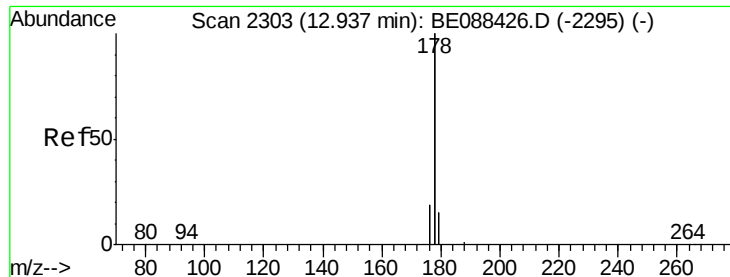
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.91 min Scan# 2299
 Delta R.T. 0.01 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	15.5	11.8	17.8
80	14.3	10.9	16.3





#13

Phenanthrene

Concen: 0.95 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.02 min

Lab File: BE088452.D

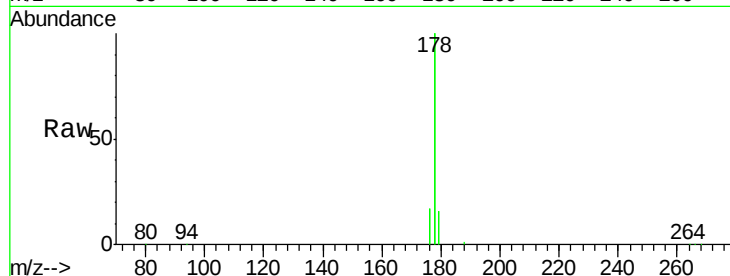
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion:178 Resp: 69696

Ion Ratio Lower Upper

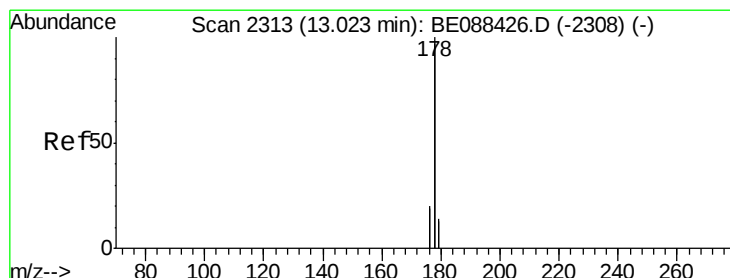
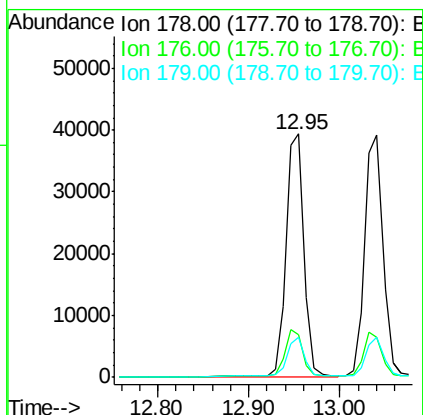
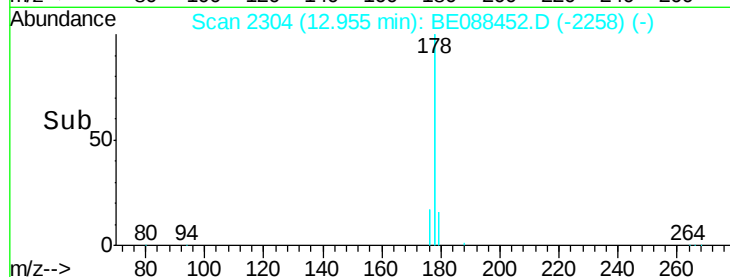
178 100

176 20.8 15.4 23.2

179 18.1 12.8 19.2

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#14

Anthracene

Concen: 0.92 ng

RT: 13.04 min Scan# 2314

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

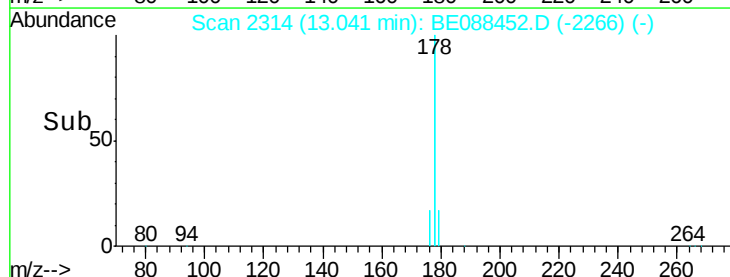
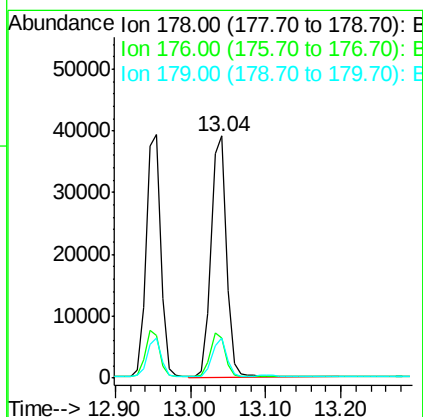
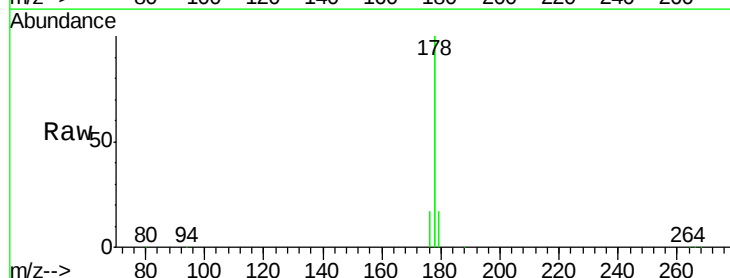
Tgt Ion:178 Resp: 54298

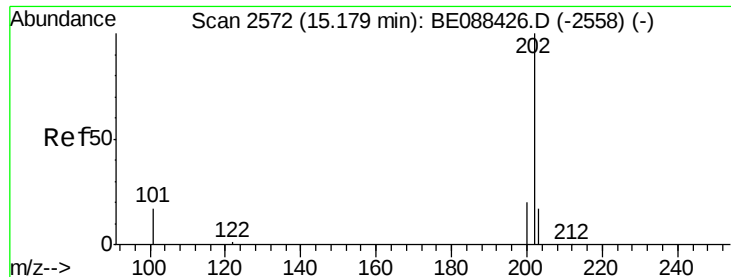
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

179 15.5 12.5 18.7





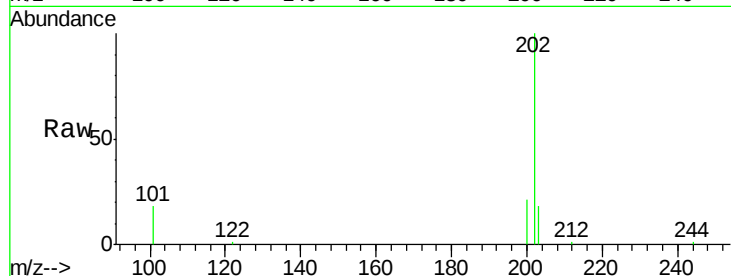
#15
 Fluoranthene
 Concen: 1.04 ng
 RT: 15.19 min Scan# 2573
 Delta R.T. 0.01 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

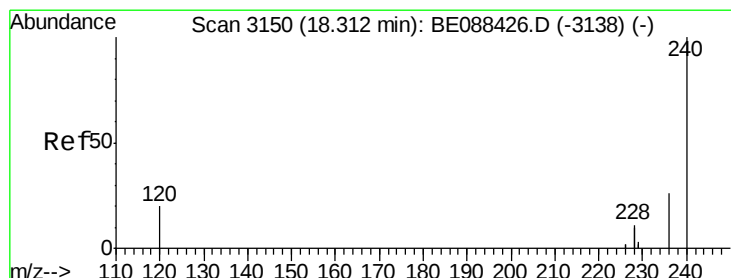
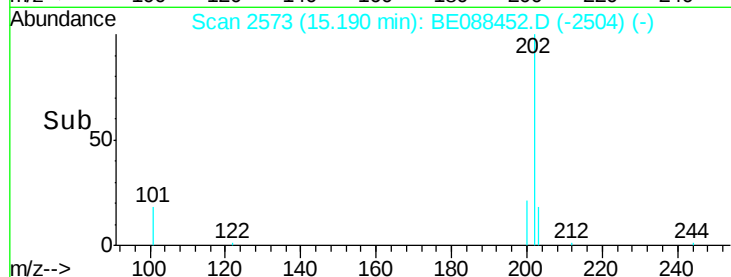
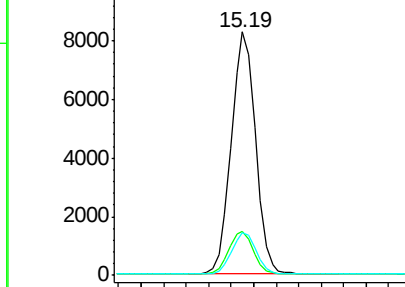
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	17.7	14.3	21.5
203	17.1	13.6	20.4

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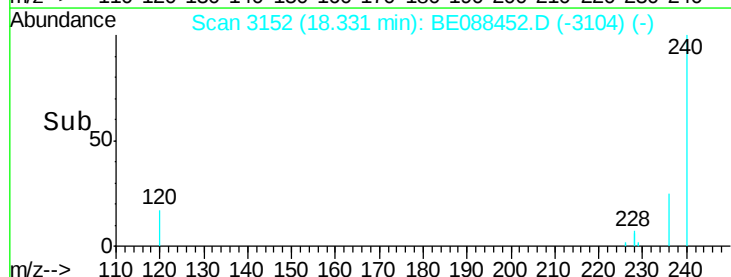
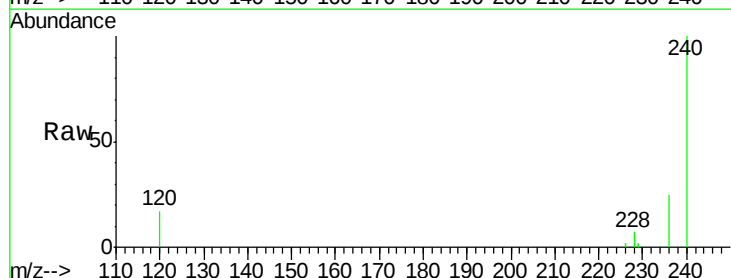
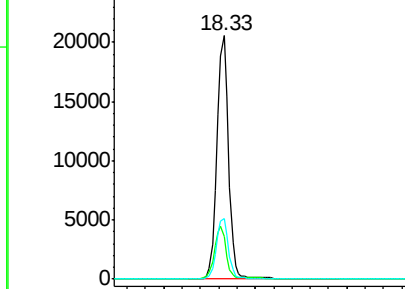
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

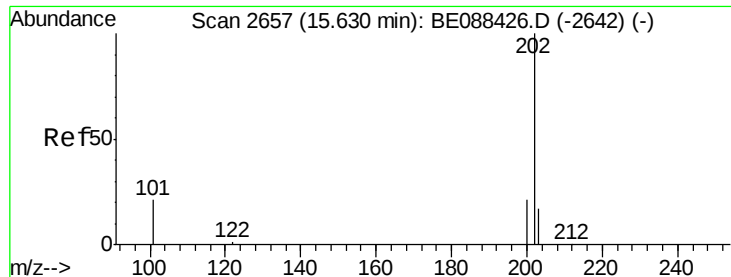


#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3152
 Delta R.T. 0.02 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	17.4	16.4	24.6
236	25.1	20.5	30.7

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





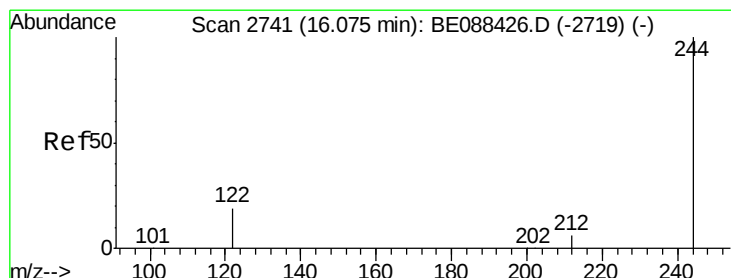
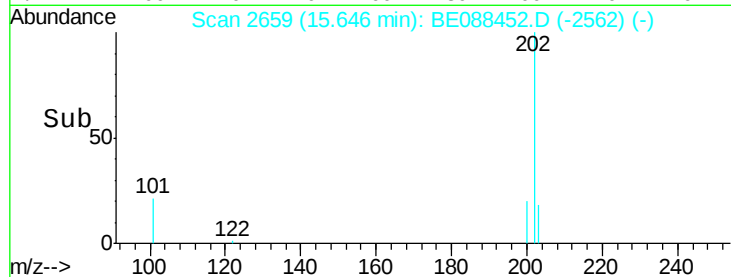
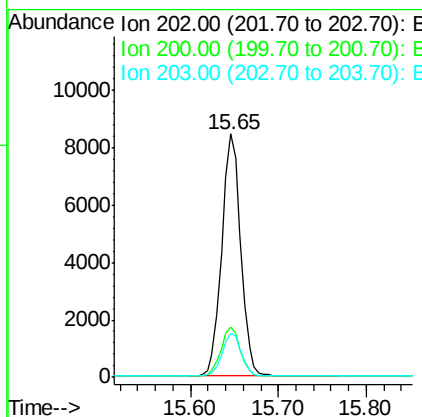
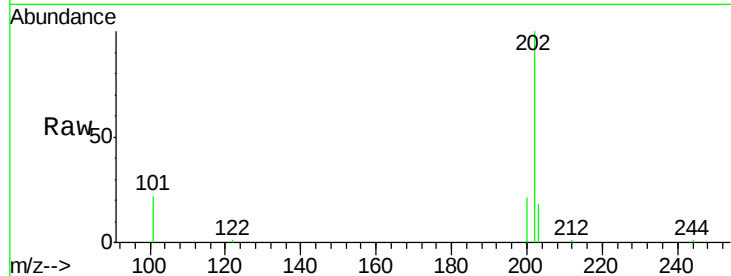
#17
Pyrene
Concen: 1.07 ng
RT: 15.65 min Scan# 2659
Delta R.T. 0.02 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.2	16.1	24.1
203	17.9	13.8	20.8

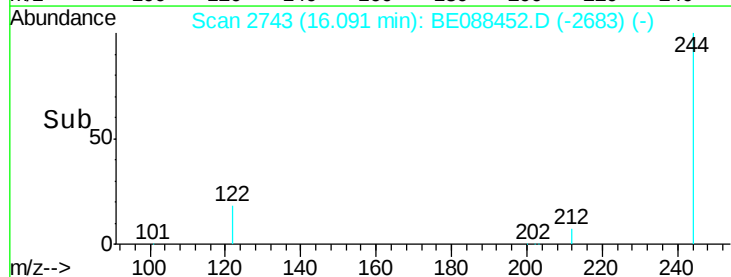
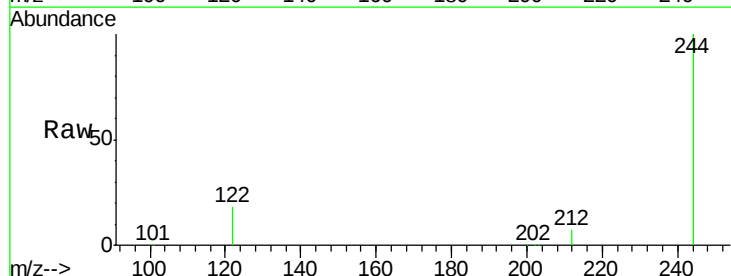
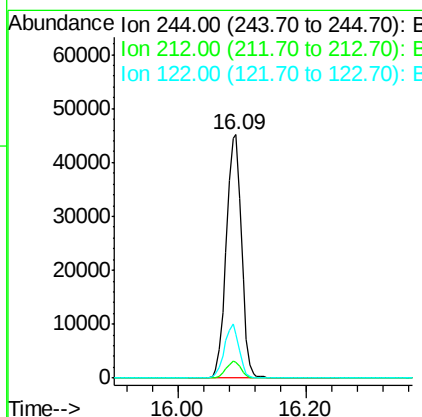
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#18
Terphenyl-d14
Concen: 11.22 ng
RT: 16.09 min Scan# 2743
Delta R.T. 0.02 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.6	5.5	8.3
122	17.8	15.6	23.4





#19

Benzo(a)anthracene

Concen: 1.08 ng

RT: 18.31 min Scan# 3148

Delta R.T. 0.01 min

Lab File: BE088452.D

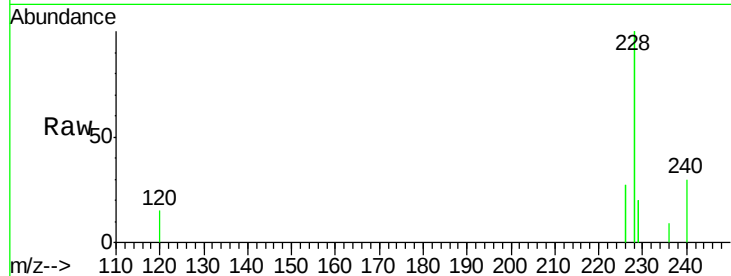
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

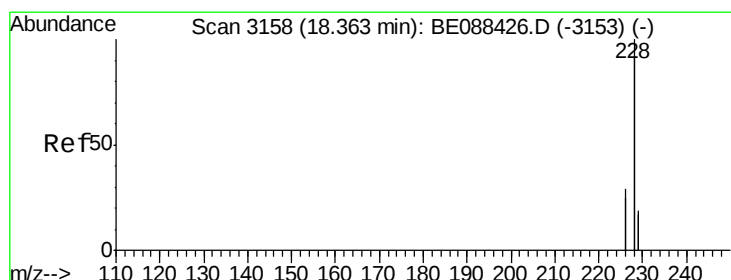
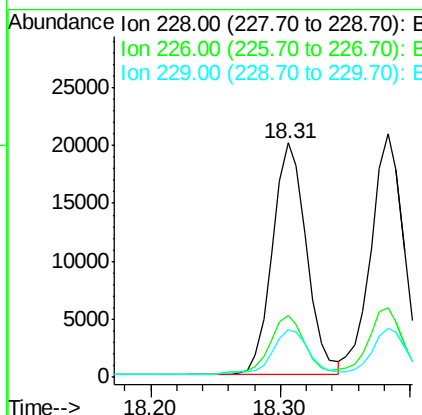
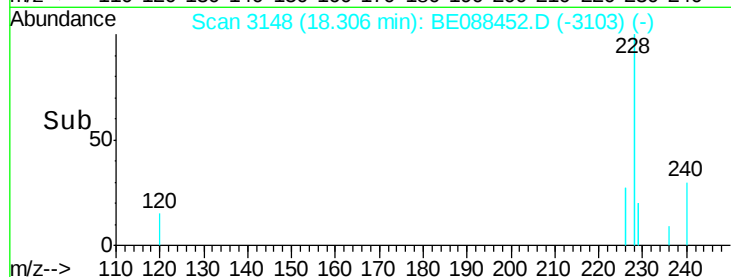
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Tgt Ion:	228	Resp:	36643
Ion Ratio	Lower	Upper	
228	100		
226	26.6	19.8	29.6
229	20.1	16.0	24.0

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#20

Chrysene

Concen: 1.10 ng

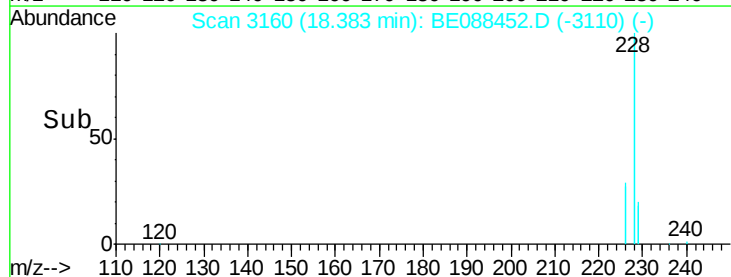
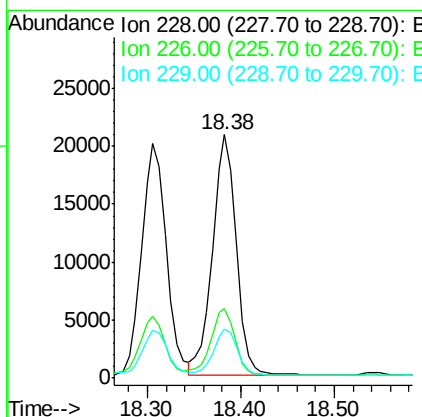
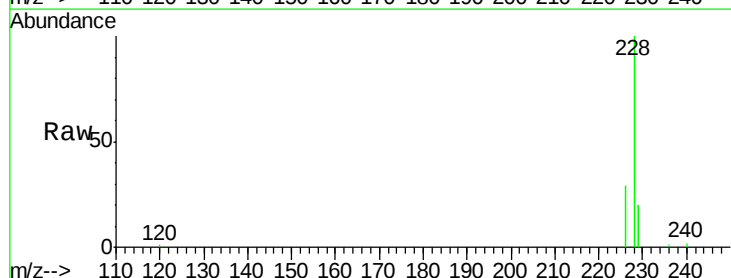
RT: 18.38 min Scan# 3160

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

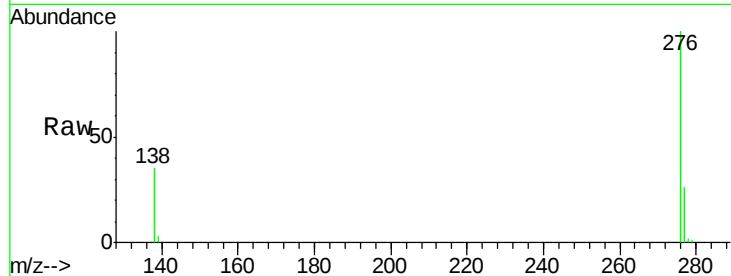
Tgt Ion:	228	Resp:	36462
Ion Ratio	Lower	Upper	
228	100		
226	28.6	23.6	35.4
229	20.3	15.4	23.2





#21
 Indeno(1,2,3-cd)pyrene
 Concen: 1.38 ng m
 RT: 23.57 min Scan# 4153
 Delta R.T. 0.03 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

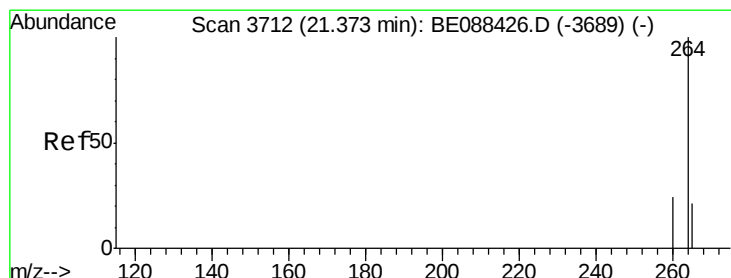
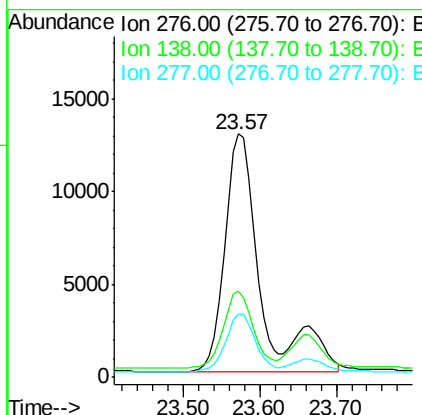
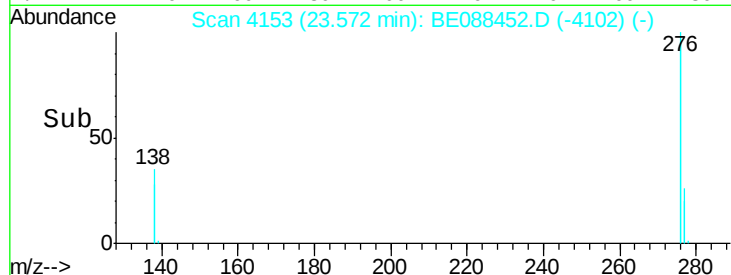
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC



Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.6	20.2	30.2
277	19.5	14.8	22.2

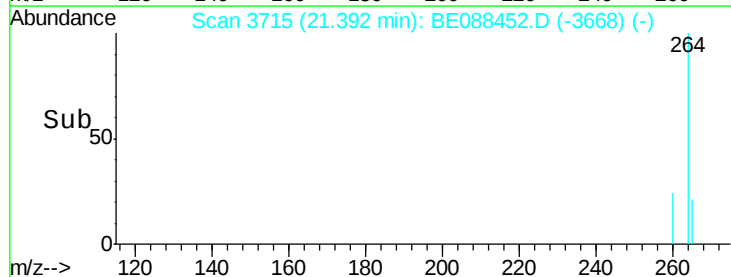
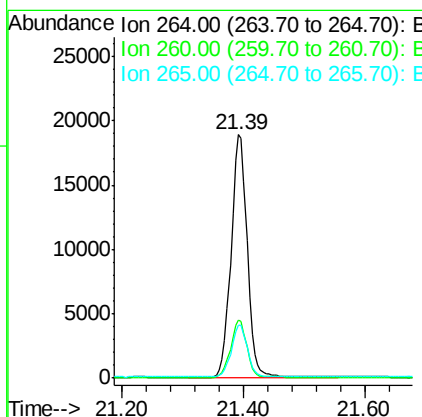
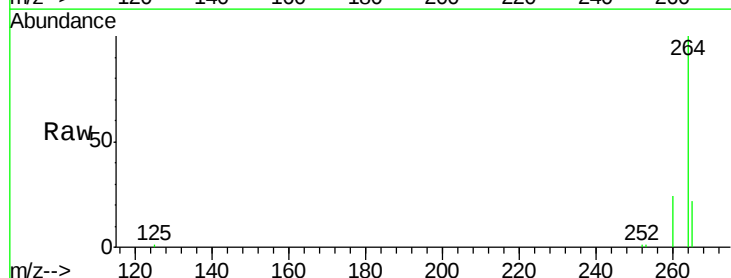
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#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.39 min Scan# 3715
 Delta R.T. 0.02 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

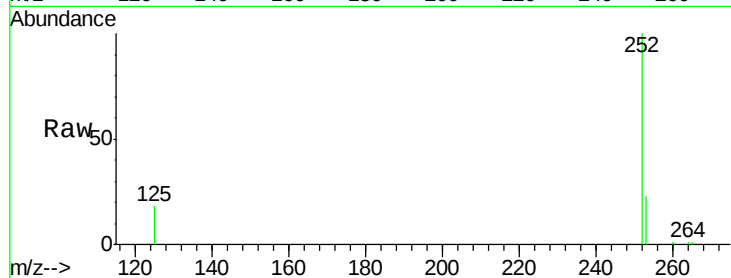
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.9	28.3
265	21.6	17.2	25.8





#23
Benzo(b)fluoranthene
Concen: 1.43 ng
RT: 20.63 min Scan# 3548
Delta R.T. 0.02 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

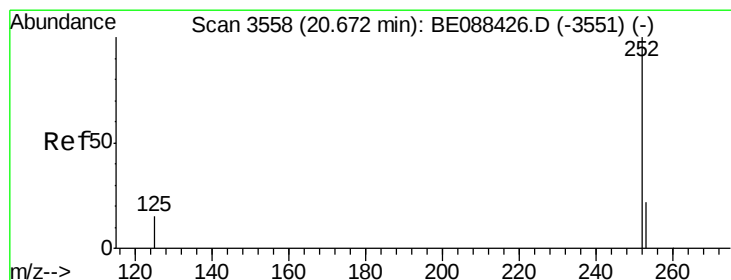
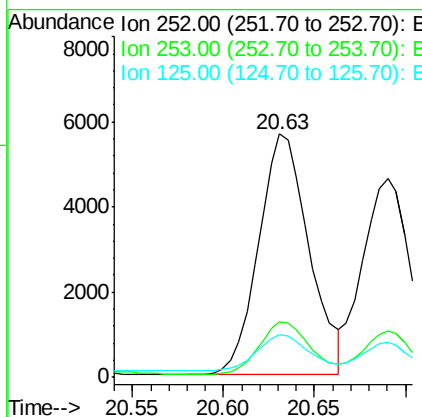
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC



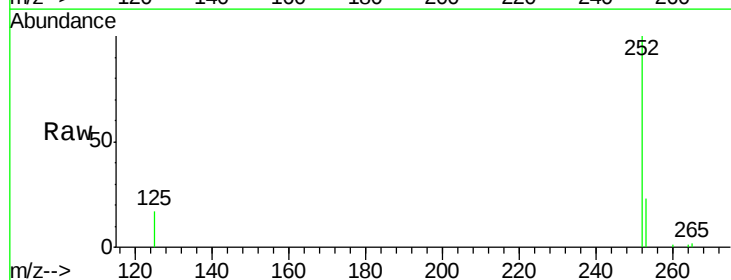
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	17.6	12.3	18.5

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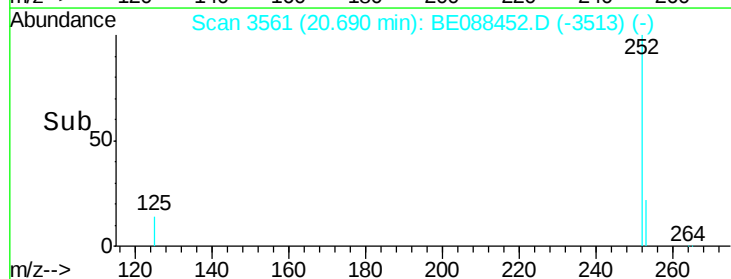
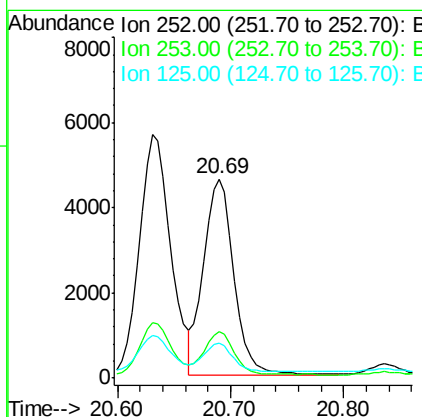
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#24
Benzo(k)fluoranthene
Concen: 1.03 ng
RT: 20.69 min Scan# 3561
Delta R.T. 0.02 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	17.4	12.2	18.4





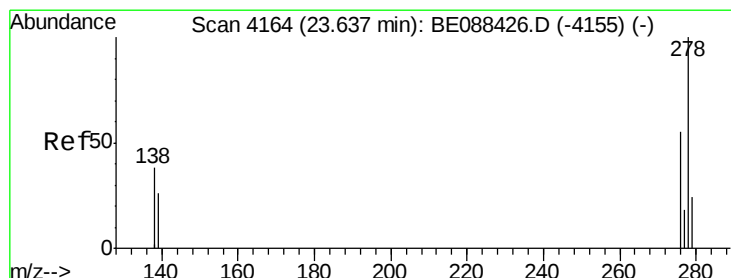
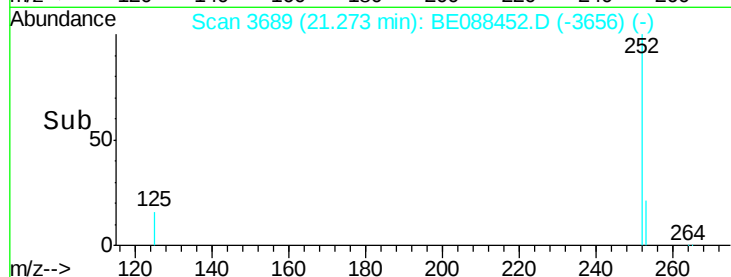
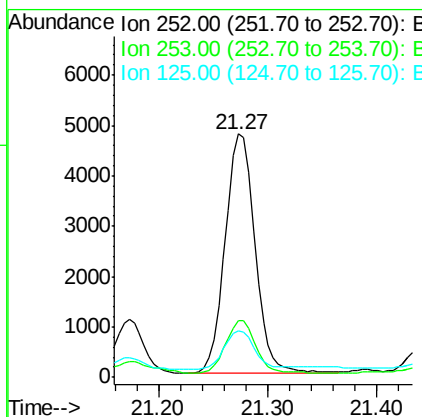
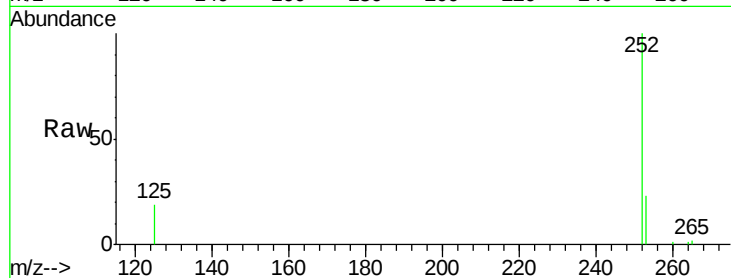
#25
Benzo(a)pyrene
Concen: 1.23 ng
RT: 21.27 min Scan# 3689
Delta R.T. 0.02 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.4
125	19.3	13.7	20.5

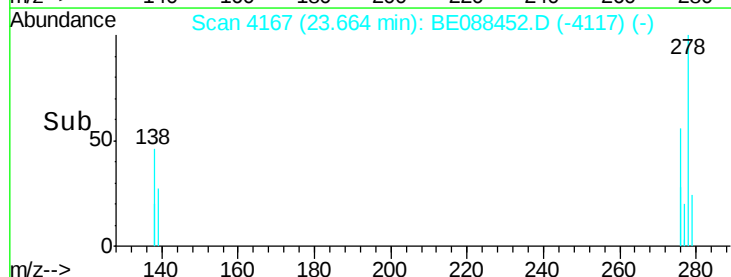
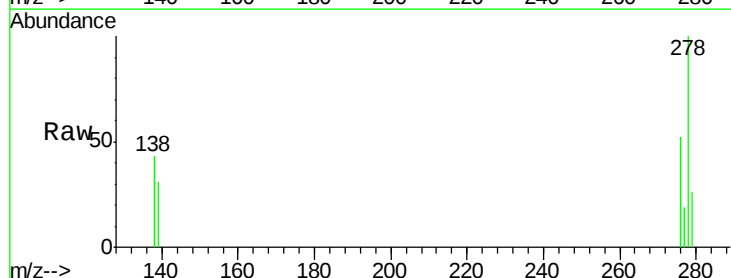
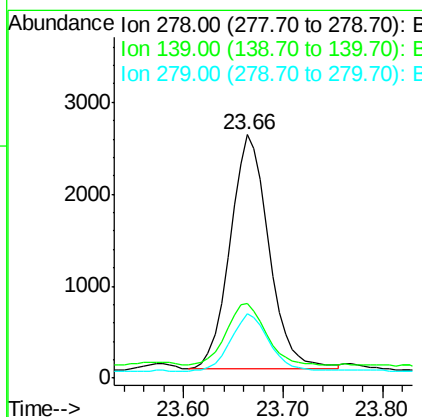
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#26
Dibenzo(a,h)anthracene
Concen: 1.02 ng
RT: 23.66 min Scan# 4167
Delta R.T. 0.03 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

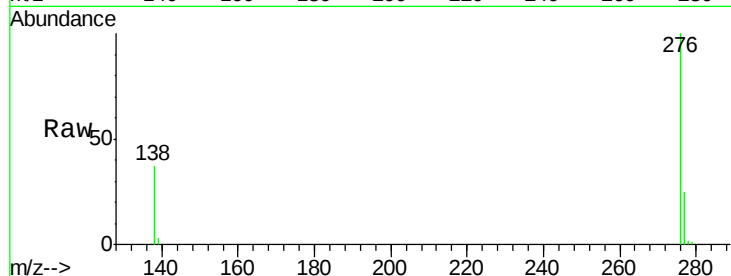
Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.8	22.1	33.1
279	26.5	19.7	29.5





#27
 Benzo(g,h,i)perylene
 Concen: 1.25 ng
 RT: 24.20 min Scan# 4250
 Delta R.T. 0.04 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC



Tgt	Ion	276	Resp:	38890
Ion	Ratio	Lower	Upper	
276	100			
277	25.2	19.8	29.6	
138	36.5	29.3	43.9	

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