

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088122.D
 Acq On : 20 Oct 2014 23:29
 Operator : TP/JJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

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 10/22/2014 1:51:43 PM

Quant Time: Oct 21 02:08:04 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 01:52:35 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	50177	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	188450	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	83168	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	155540	5.00	ng	0.00
16) Chrysene-d12	18.40	240	107937	5.00	ng	0.00
22) Perylene-d12	21.45	264	106531	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	144289	12.66	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	218466	9.51	ng	0.00
18) Terphenyl-d14	16.15	244	177325	10.58	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.40	88	73984	10.32	ng	99
5) Naphthalene	8.73	128	361328	9.46	ng	99
6) 2-Methylnaphthalene	9.58	142	221845	9.85	ng	96
9) Acenaphthylene	10.67	152	1200651	10.19	ng	100
10) Acenaphthene	10.89	154	179015	9.26	ng	98
11) Fluorene	11.55	166	193224	9.84	ng	99
13) Phenanthrene	13.01	178	1111450m	7.66	ng	
14) Anthracene	13.09	178	1136145	8.97	ng	100
15) Fluoranthene	15.25	202	269945	8.81	ng	100
17) Pyrene	15.71	202	282718	10.19	ng	100
19) Benzo(a)anthracene	18.37	228	944473	11.44	ng	100
20) Chrysene	18.45	228	902873	8.96	ng	98
21) Indeno(1,2,3-cd)pyrene	23.65	276	1126835m	13.73	ng	
23) Benzo(b)fluoranthene	20.70	252	245574	12.32	ng	99
24) Benzo(k)fluoranthene	20.75	252	254057	9.14	ng	99
25) Benzo(a)pyrene	21.34	252	235947	13.70	ng	98
26) Dibenzo(a,h)anthracene	23.75	278	231497	12.70	ng	97
27) Benzo(g,h,i)perylene	24.30	276	996560	11.35	ng	97

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

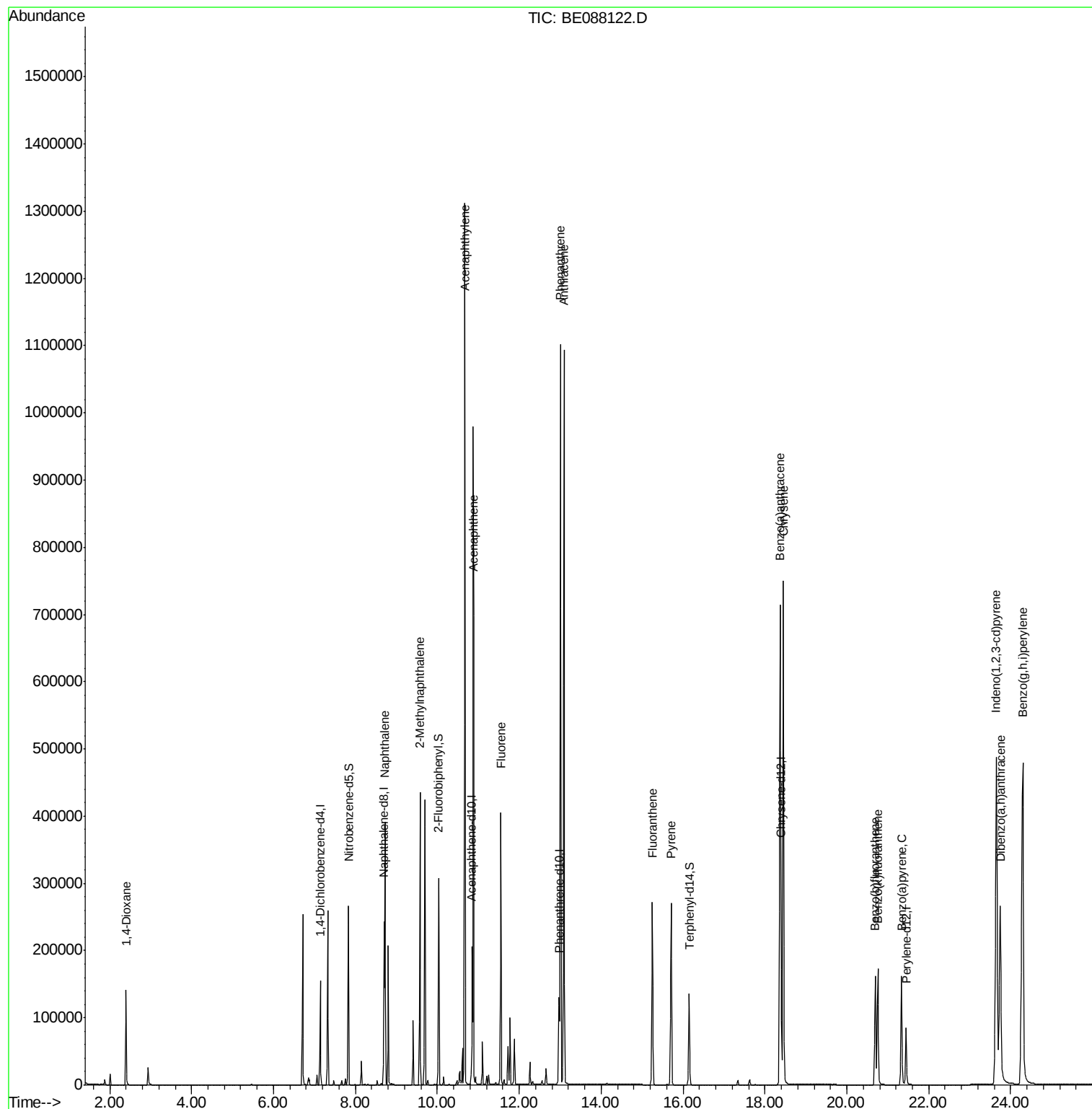
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
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ALS Vial : 9 Sample Multiplier: 1

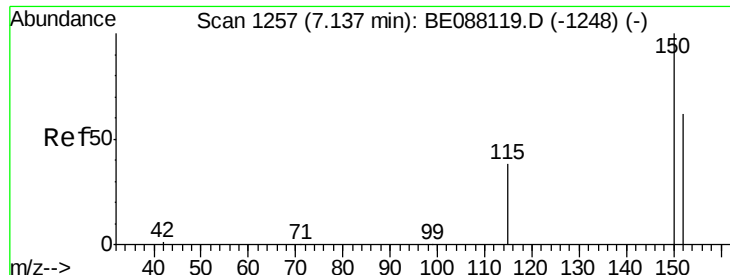
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088122.D

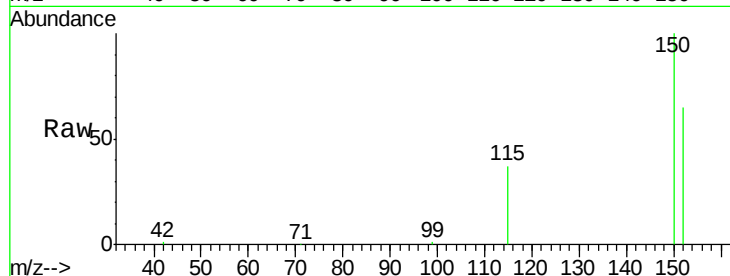
Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

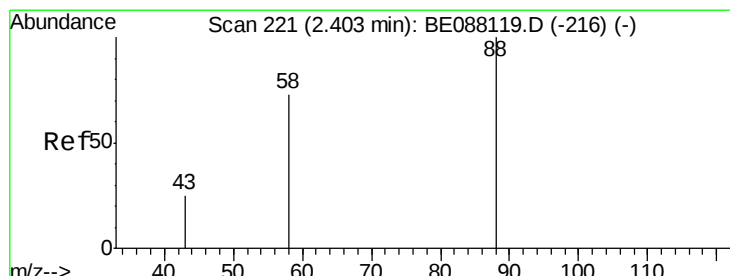
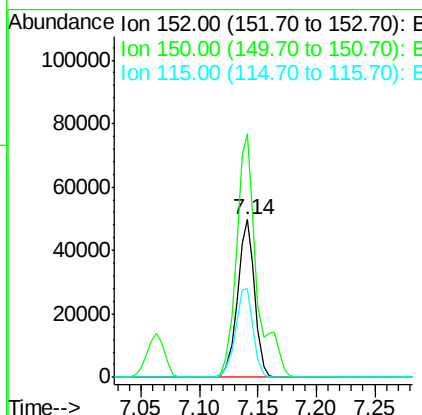
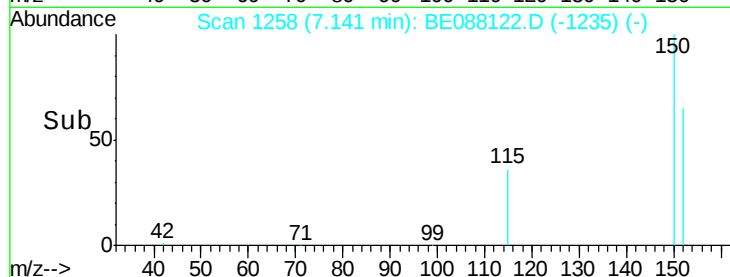
SSTDICC010



Tgt Ion:	152	Resp:	50177
Ion Ratio	Lower	Upper	
152	100		
150	154.8	129.2	193.8
115	56.6	49.3	73.9

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#2

1,4-Dioxane

Concen: 10.32 ng

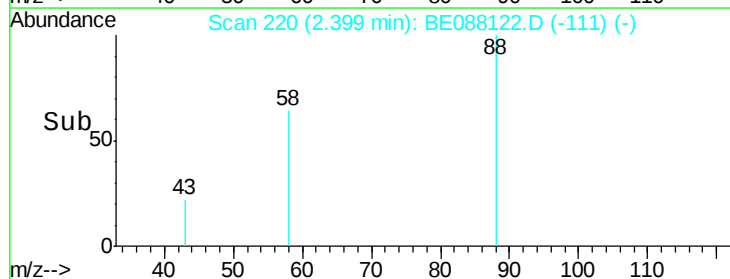
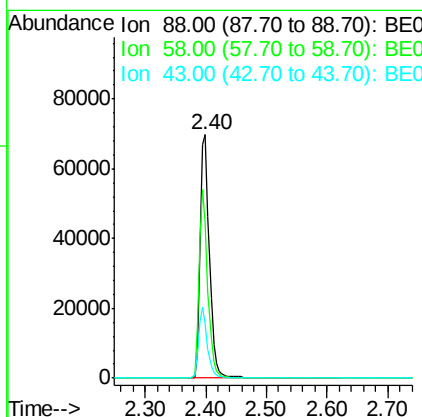
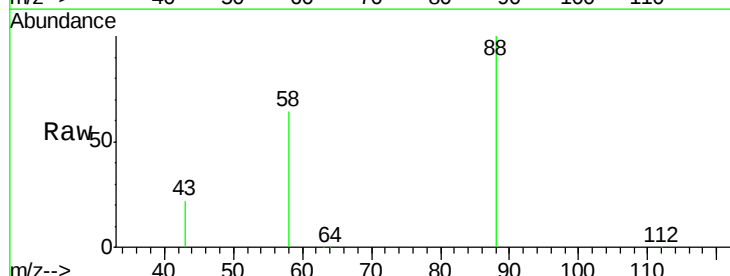
RT: 2.40 min Scan# 220

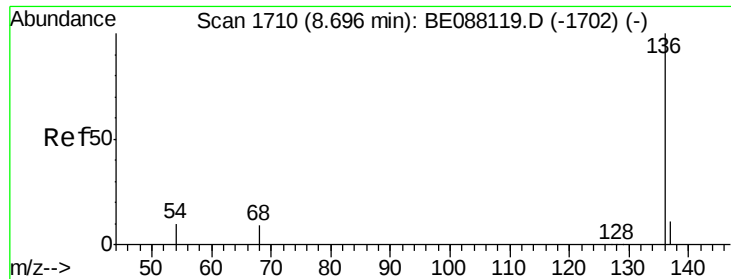
Delta R.T. -0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt Ion:	88	Resp:	73984
Ion Ratio	Lower	Upper	
88	100		
58	74.1	59.5	89.3
43	27.4	21.2	31.8





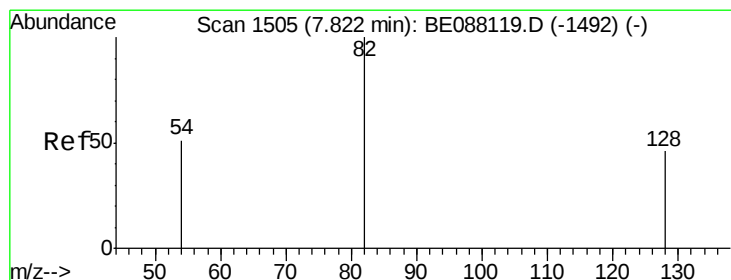
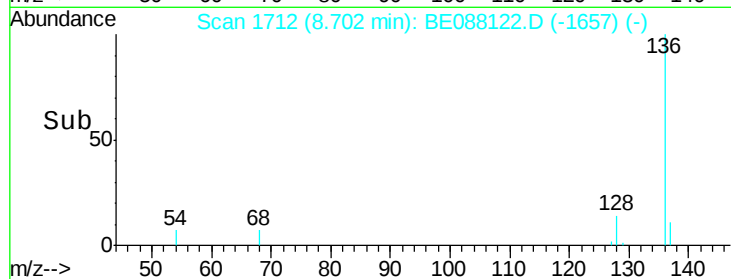
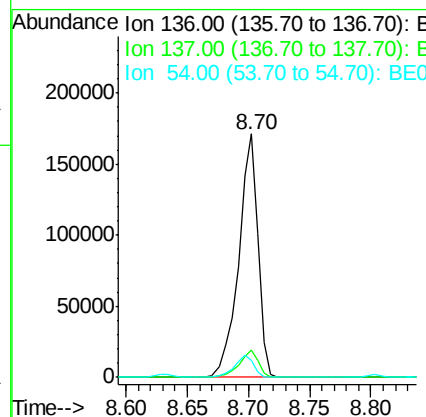
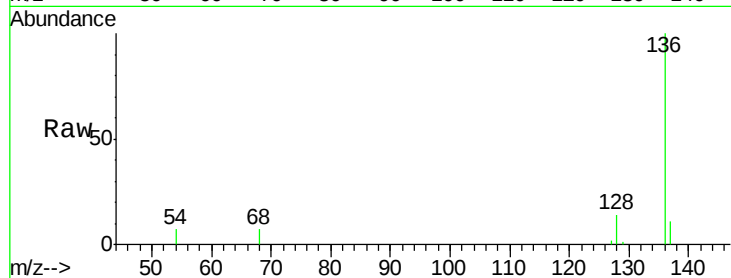
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1712
Delta R.T. 0.01 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		
137	11.1	8.6	12.8
54	6.9	7.7	11.5

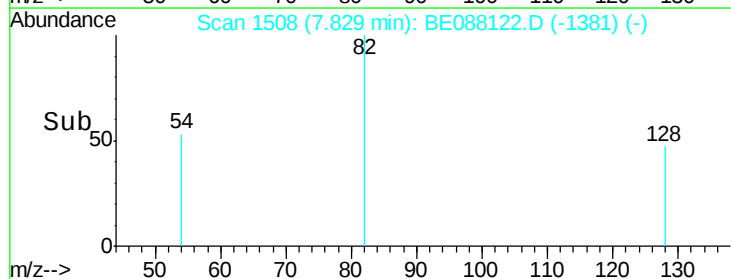
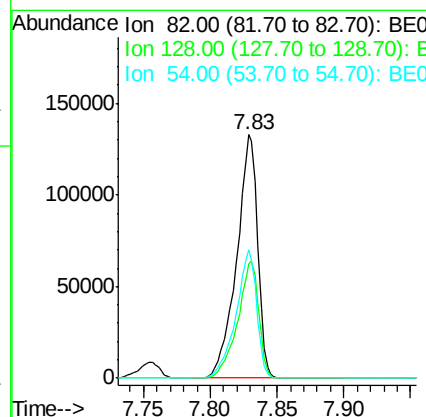
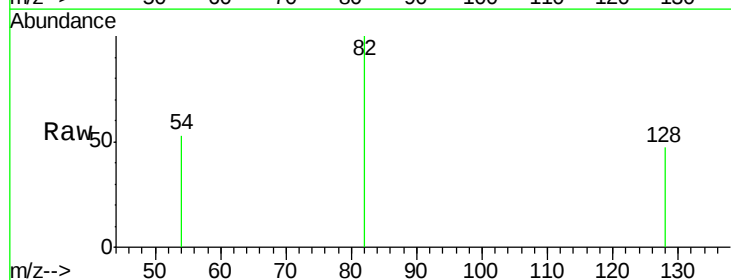
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#4
Nitrobenzene-d5
Concen: 12.66 ng
RT: 7.83 min Scan# 1508
Delta R.T. 0.01 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	47.2	37.1	55.7
54	52.9	41.1	61.7





#5

Naphthalene

Concen: 9.46 ng

RT: 8.73 min Scan# 1717

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

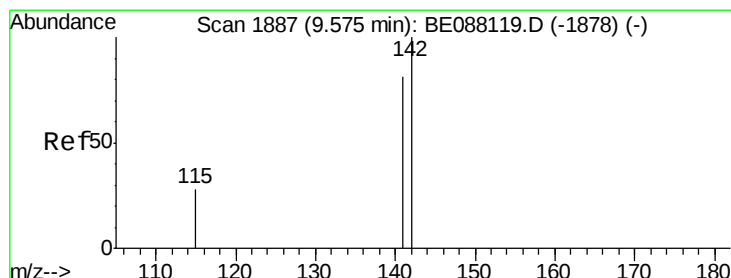
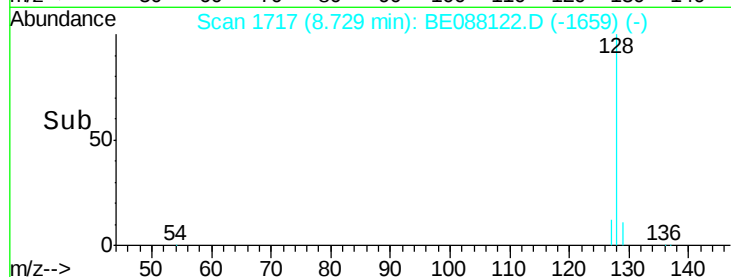
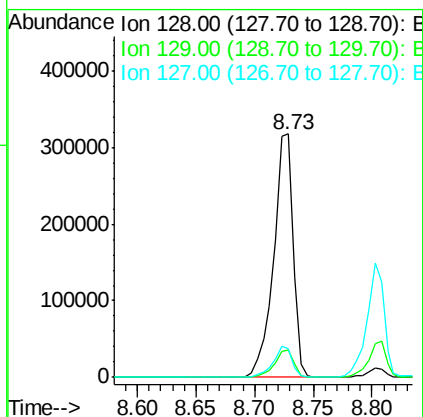
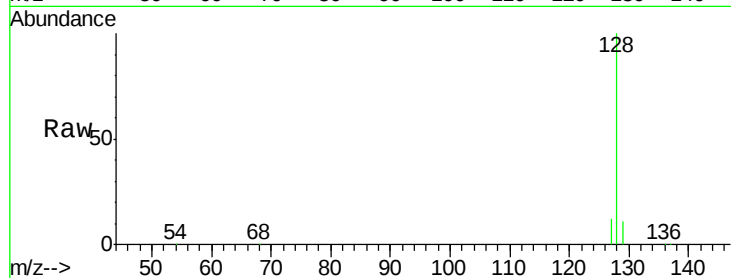
ClientSampleId :

SSTDICC010

Tgt	Ion	Ratio	Resp	Lower	Upper
128	100		361328		
129	11.4	8.9	13.3		
127	11.5	9.7	14.5		

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#6

2-Methylnaphthalene

Concen: 9.85 ng

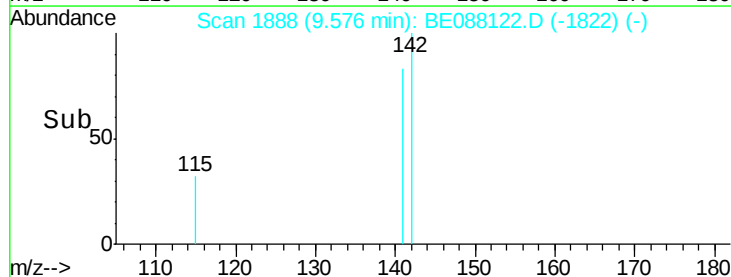
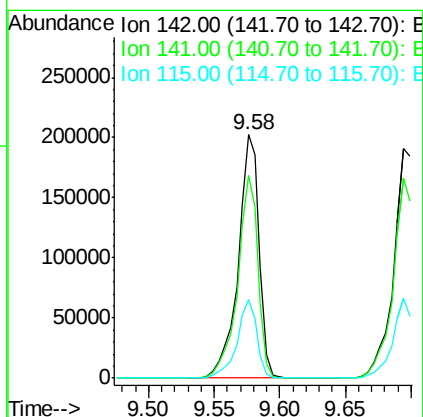
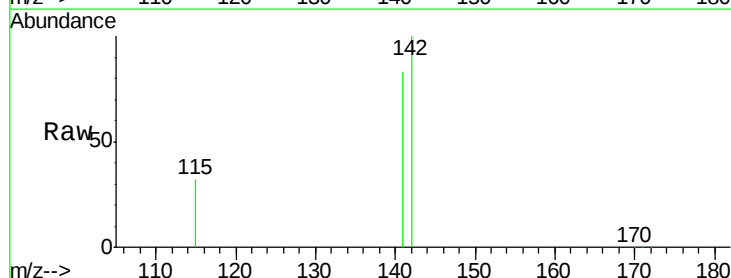
RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt	Ion	Ratio	Resp	Lower	Upper
142	100		221845		
141	83.0	64.6	97.0		
115	32.0	22.6	34.0		





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088122.D

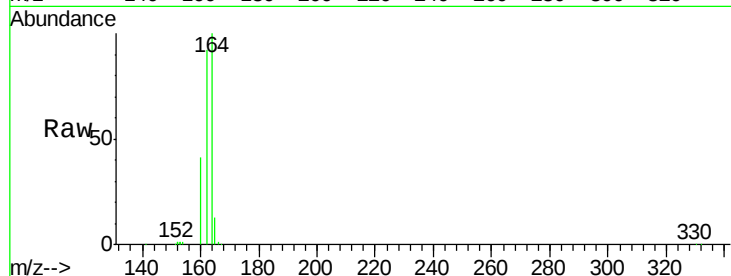
Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

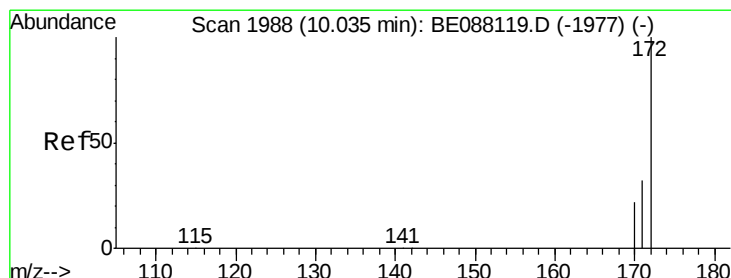
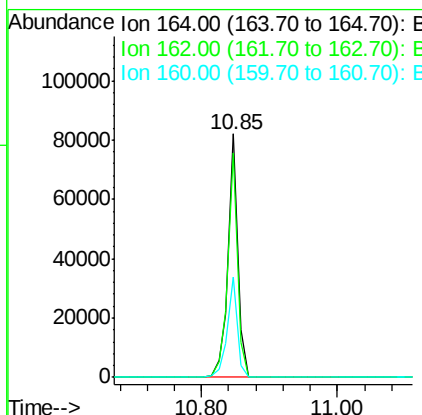
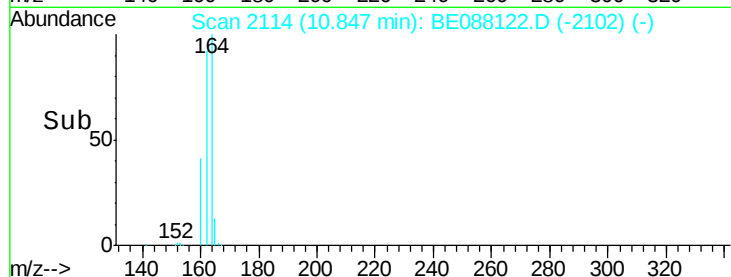
SSTDICC010



Tgt Ion:	164	Resp:	83168
Ion Ratio	Lower	Upper	
164	100		
162	91.9	68.3	102.5
160	41.4	28.7	43.1

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#8

2-Fluorobiphenyl

Concen: 9.51 ng

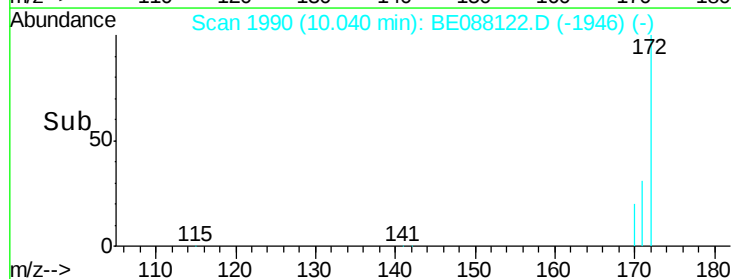
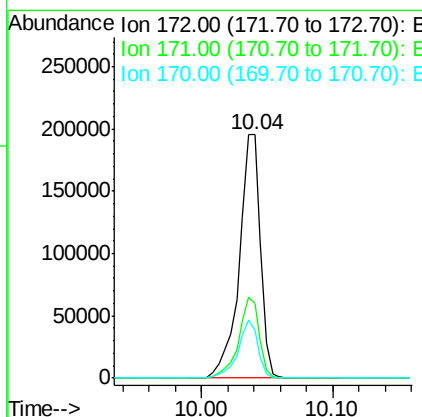
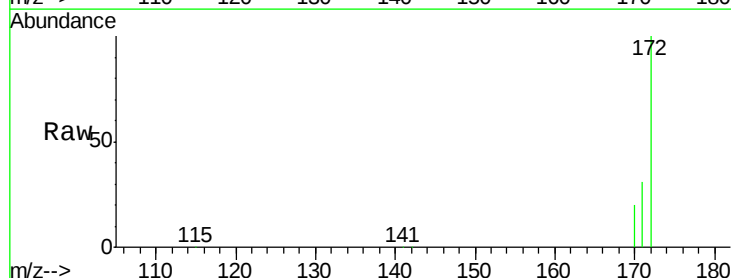
RT: 10.04 min Scan# 1990

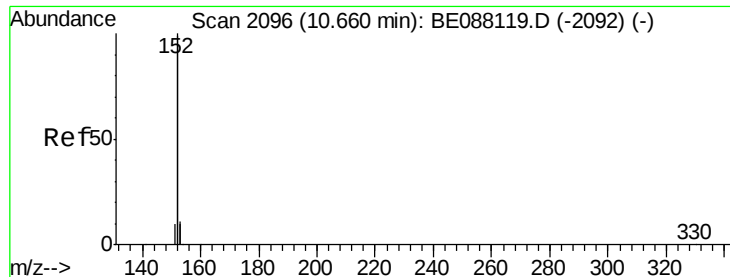
Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt Ion:	172	Resp:	218466
Ion Ratio	Lower	Upper	
172	100		
171	30.7	25.4	38.2
170	19.8	17.4	26.2





#9

Acenaphthylene

Concen: 10.19 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088122.D

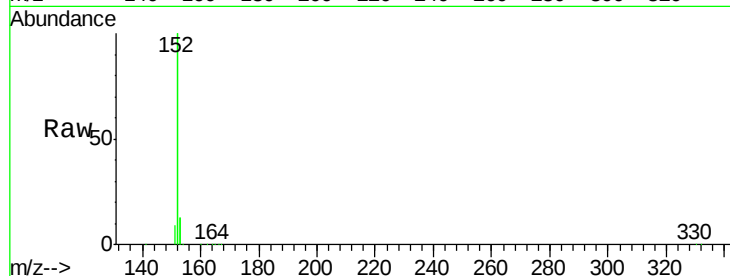
Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

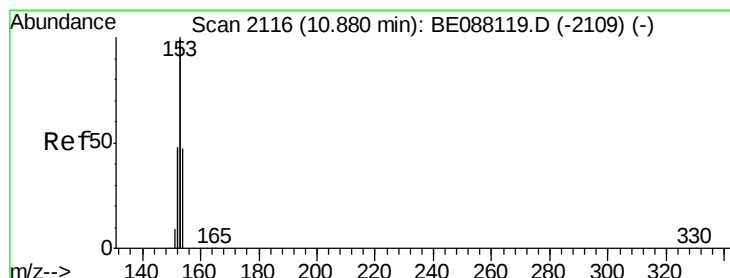
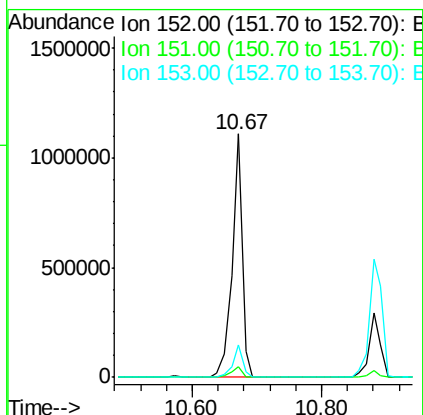
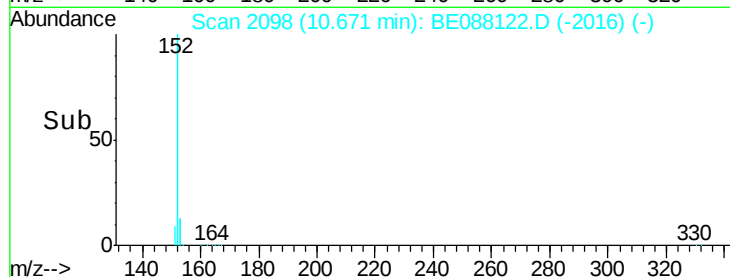
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Tgt Ion:	152	Resp:	1200651
Ion Ratio	Lower	Upper	
152	100		
151	4.7	3.7	5.5
153	13.0	10.4	15.6

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#10

Acenaphthene

Concen: 9.26 ng

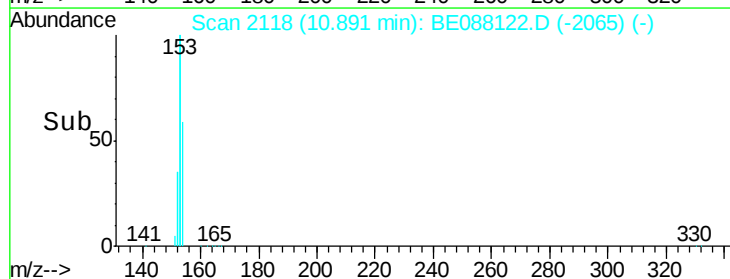
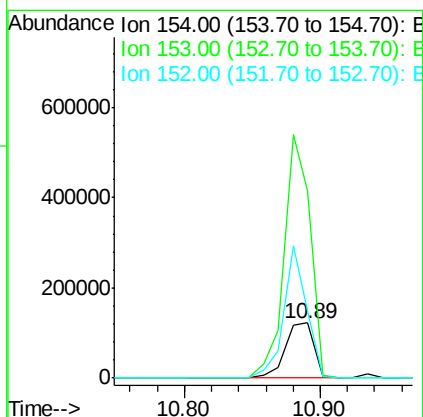
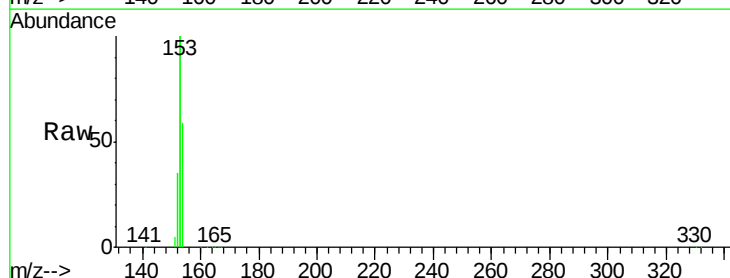
RT: 10.89 min Scan# 2118

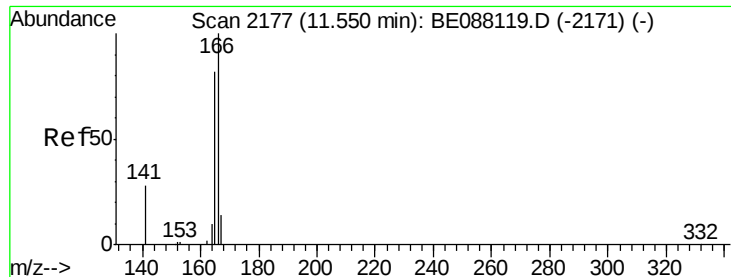
Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt Ion:	154	Resp:	179015
Ion Ratio	Lower	Upper	
154	100		
153	406.9	327.8	491.6
152	192.2	157.6	236.4





#11

Fluorene

Concen: 9.84 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

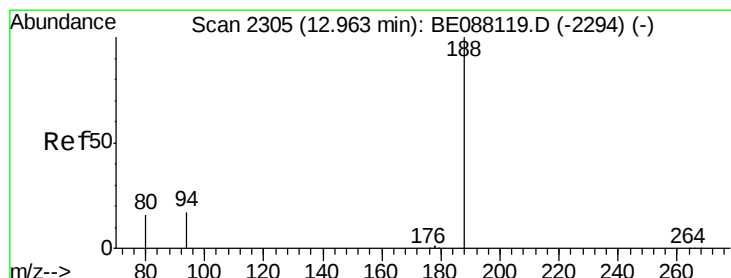
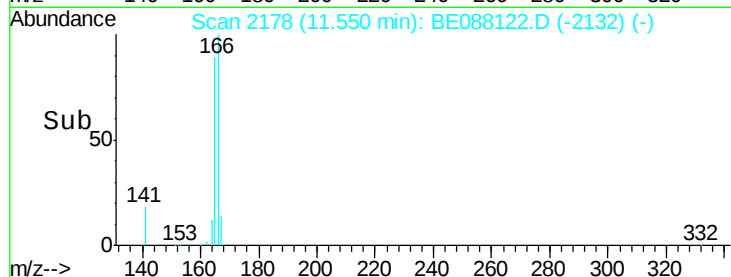
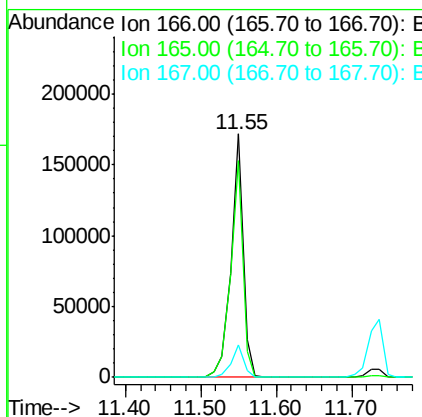
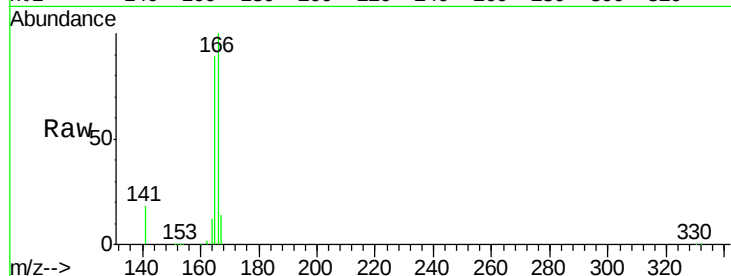
ClientSampleId :

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Tgt Ion:	166	Resp:	193224
Ion Ratio	Lower	Upper	
166	100		
165	89.9	71.4	107.2
167	13.5	10.6	16.0

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#12

Phenanthrene-d10

Concen: 5.00 ng

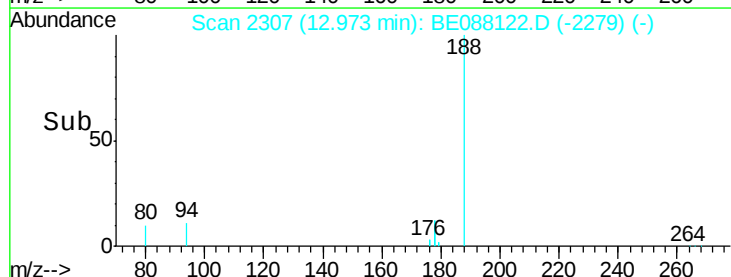
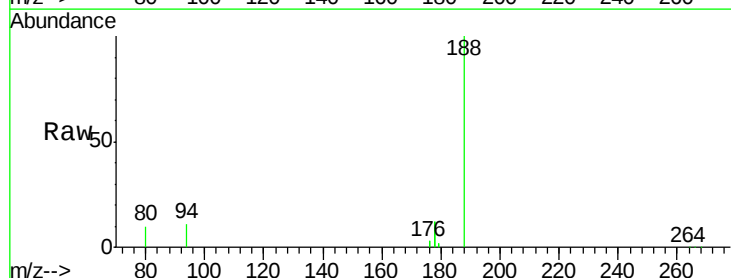
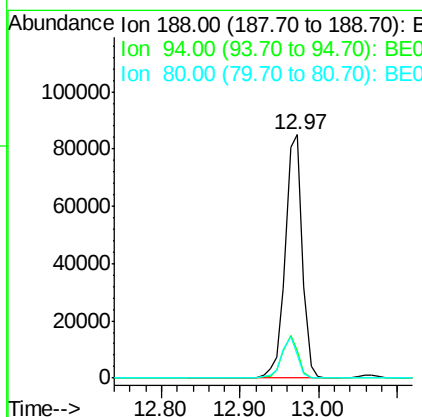
RT: 12.97 min Scan# 2307

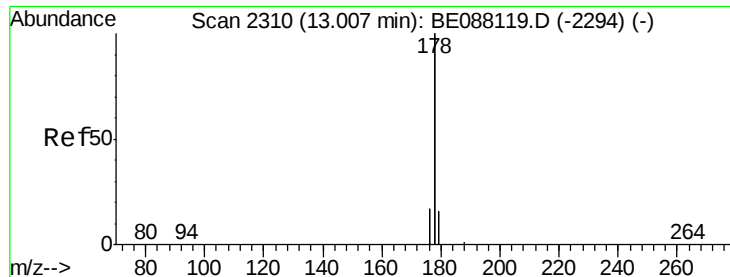
Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt Ion:	188	Resp:	155540
Ion Ratio	Lower	Upper	
188	100		
94	11.4	13.9	20.9#
80	9.9	12.9	19.3#





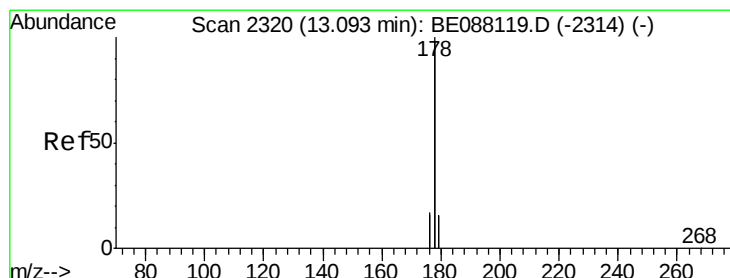
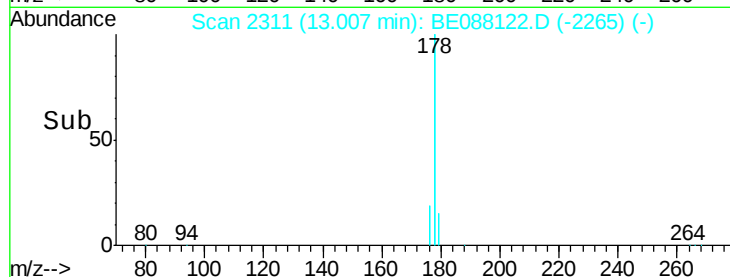
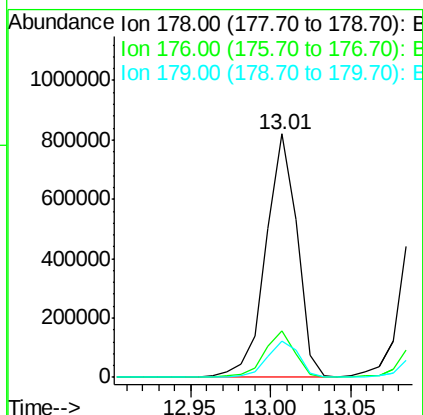
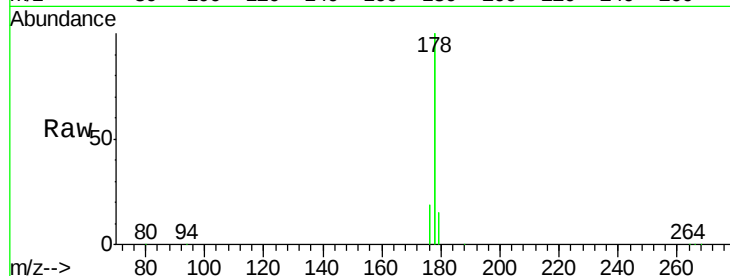
#13
Phenanthrene
Concen: 7.66 ng m
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 1111450
Ion Ratio Lower Upper
178 100
176 18.5 12.5 18.7
179 15.7 13.5 20.3

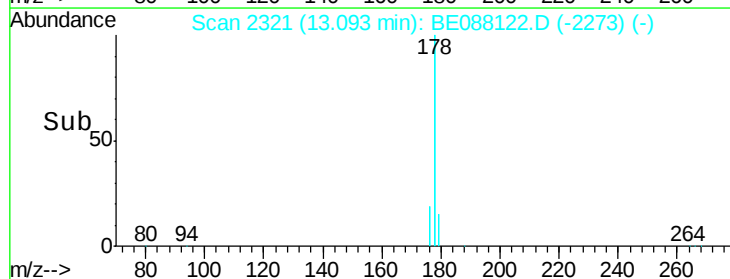
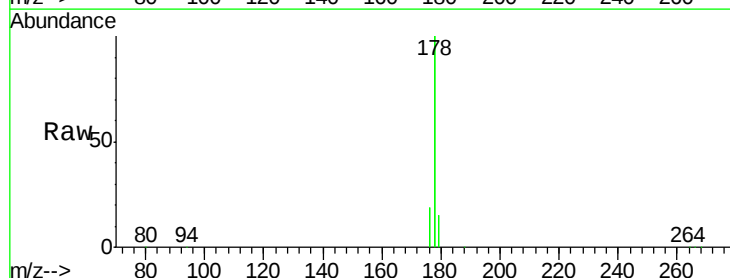
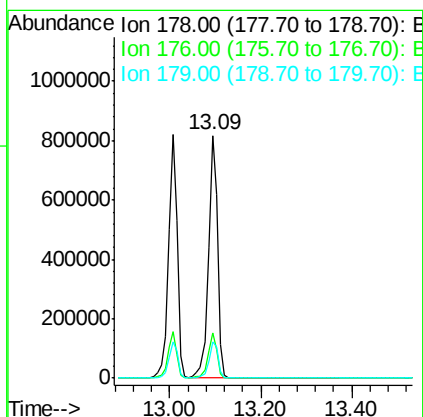
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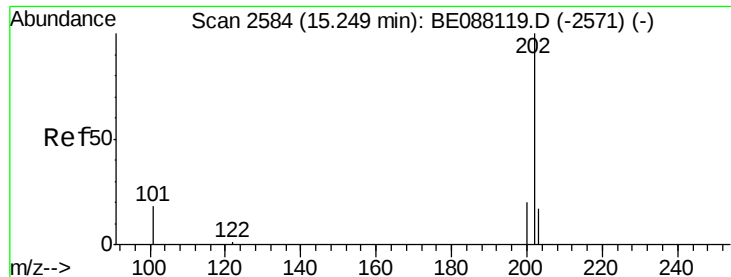
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#14
Anthracene
Concen: 8.97 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.00 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Tgt Ion:178 Resp: 1136145
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 15.4 12.5 18.7





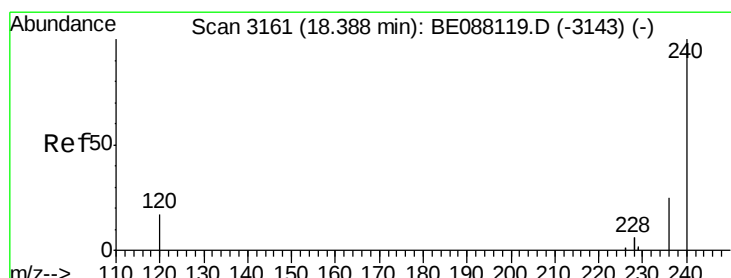
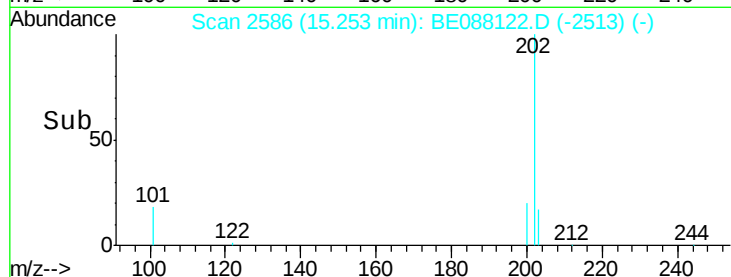
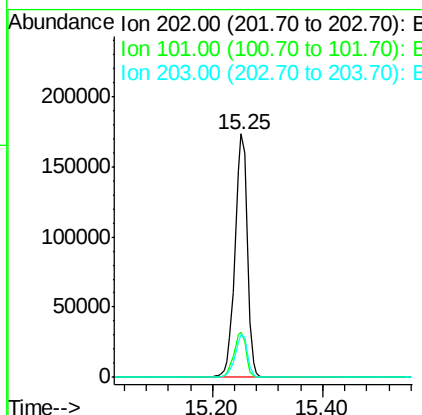
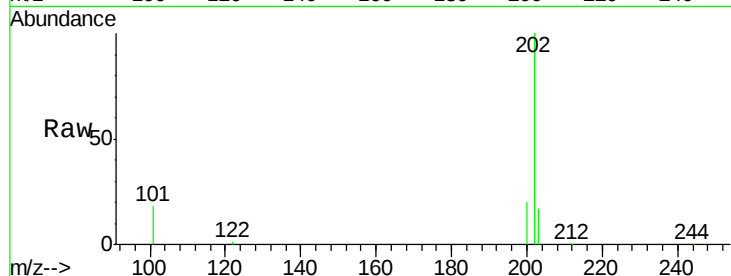
#15
 Fluoranthene
 Concen: 8.81 ng
 RT: 15.25 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	269945		
101	18.5	14.8	22.2	
203	17.2	13.5	20.3	

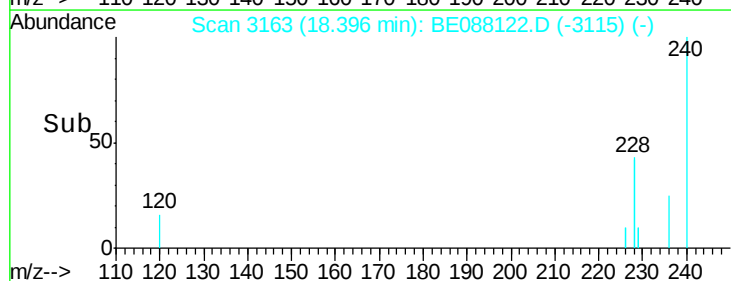
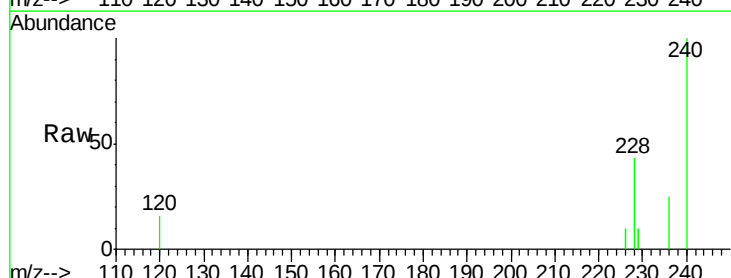
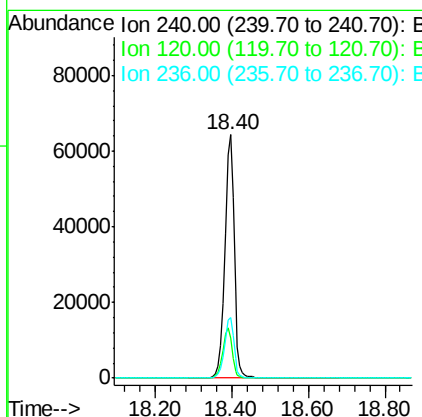
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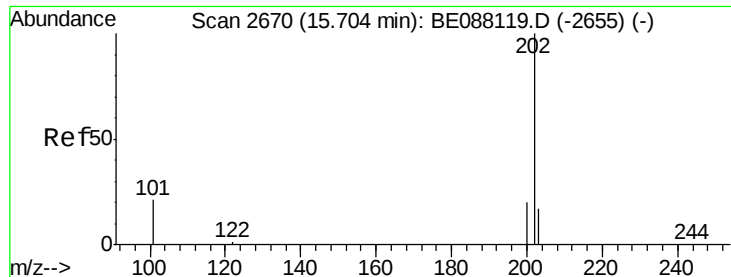
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#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.40 min Scan# 3163
 Delta R.T. 0.01 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	107937		
120	16.2	13.9	20.9	
236	25.0	19.9	29.9	





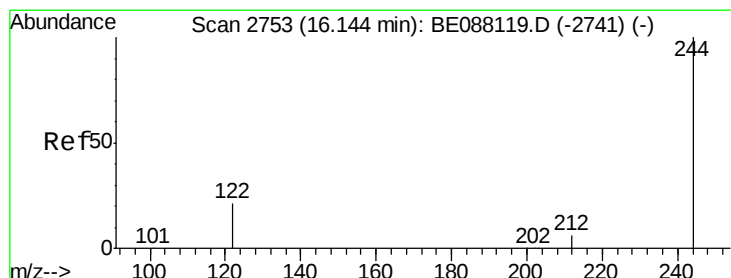
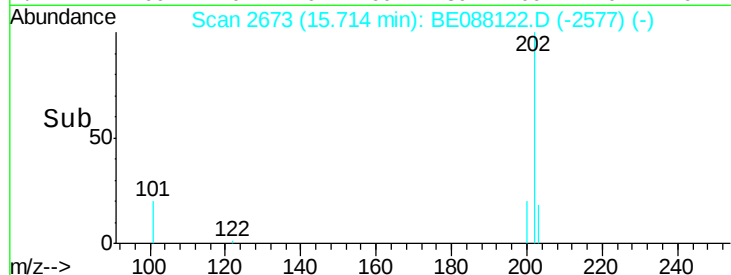
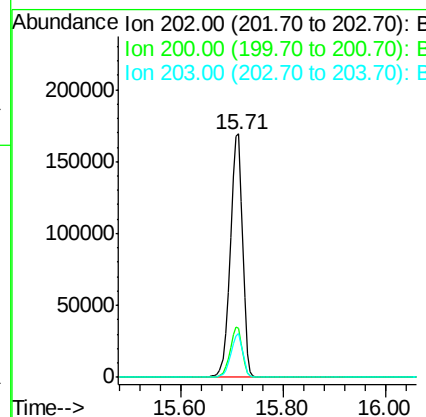
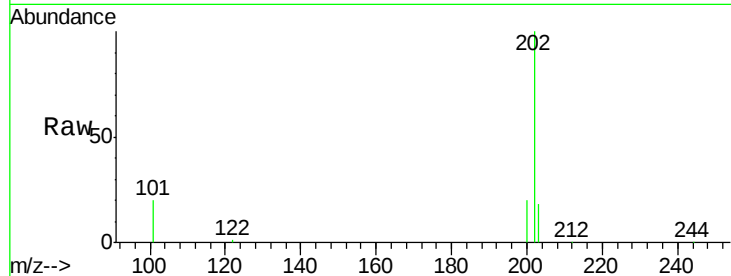
#17
 Pyrene
 Concen: 10.19 ng
 RT: 15.71 min Scan# 2673
 Delta R.T. 0.01 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion:	202	Resp:	282718
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.1	24.1
203	17.5	13.9	20.9

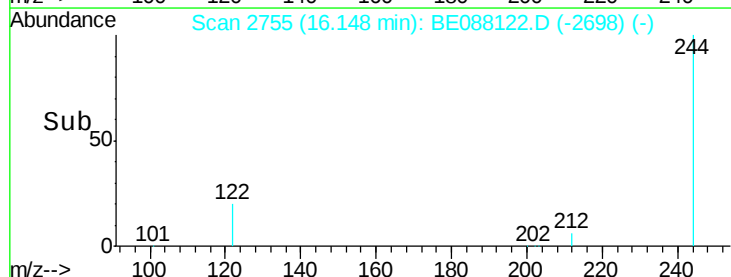
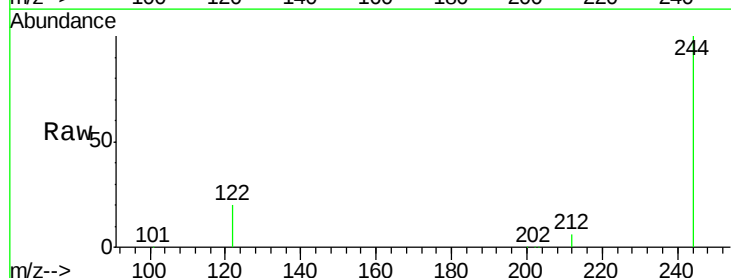
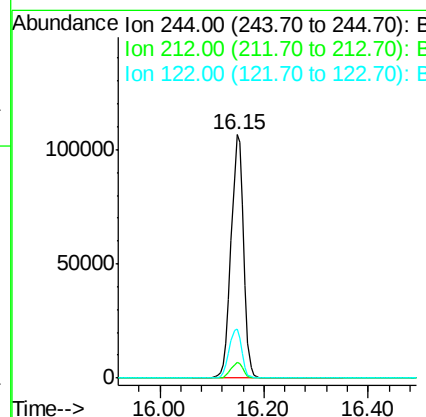
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#18
 Terphenyl-d14
 Concen: 10.58 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Tgt Ion:	244	Resp:	177325
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	20.4	17.5	26.3





#19

Benzo(a)anthracene

Concen: 11.44 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

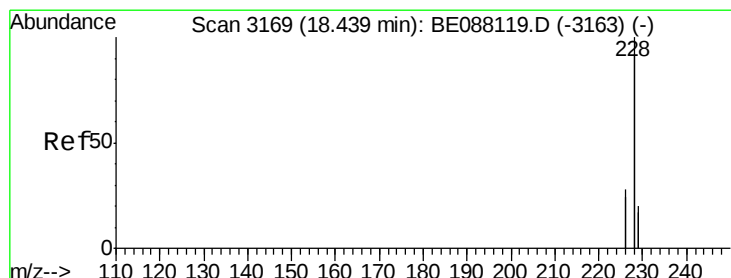
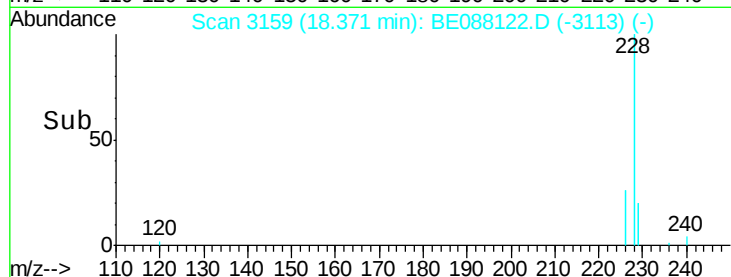
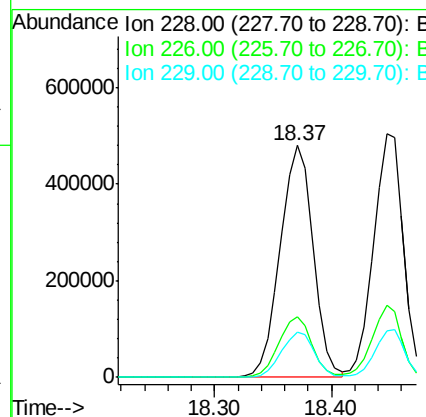
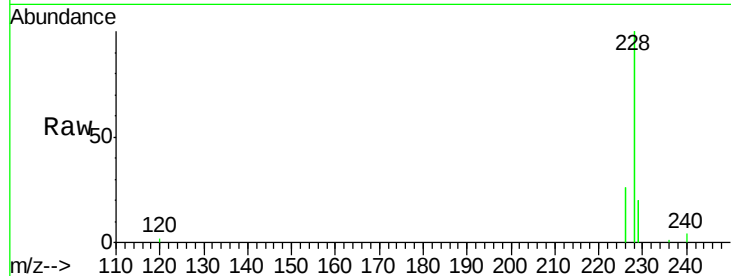
ClientSampleId :

SSTDICC010

Tgt	Ion:228	Resp:	944473
Ion	Ratio	Lower	Upper
228	100		
226	26.1	20.8	31.2
229	19.6	15.6	23.4

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#20

Chrysene

Concen: 8.96 ng

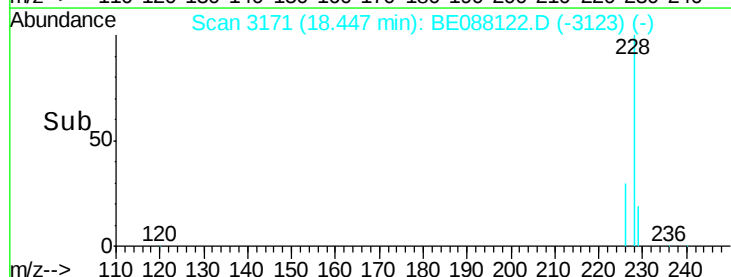
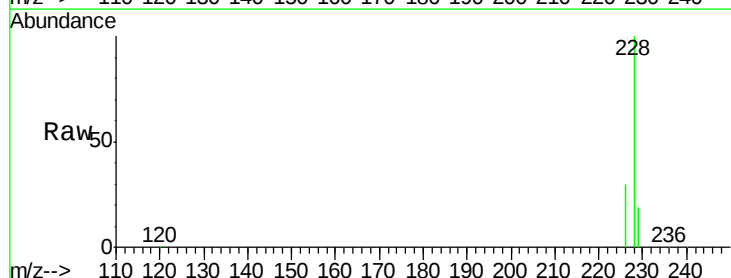
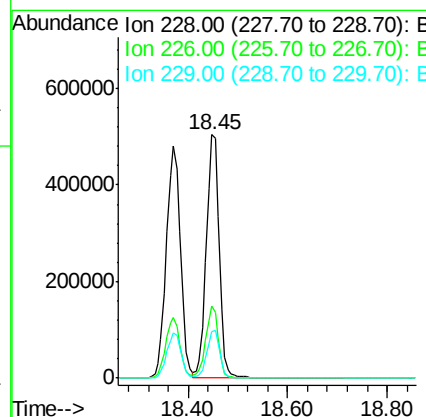
RT: 18.45 min Scan# 3171

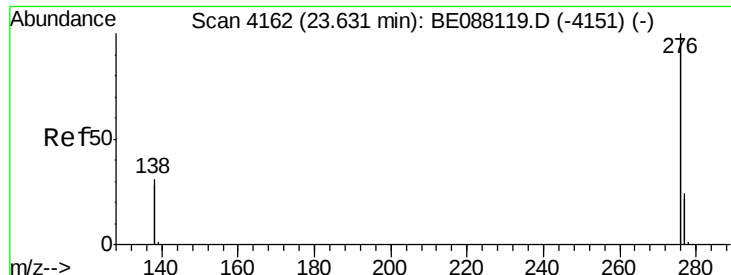
Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt	Ion:228	Resp:	902873
Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.7	34.1
229	19.1	15.8	23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 13.73 ng m

RT: 23.65 min Scan# 4166

Delta R.T. 0.02 min

Lab File: BE088122.D

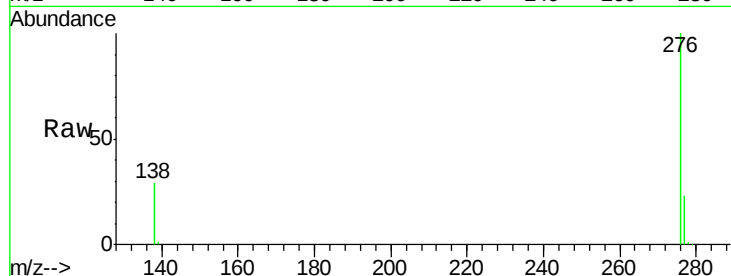
Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC010



Tgt Ion: 276 Resp: 1126835

Ion Ratio Lower Upper

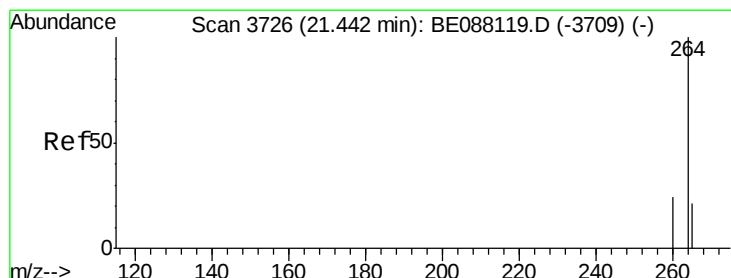
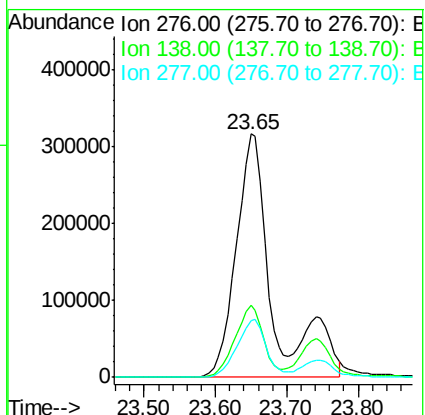
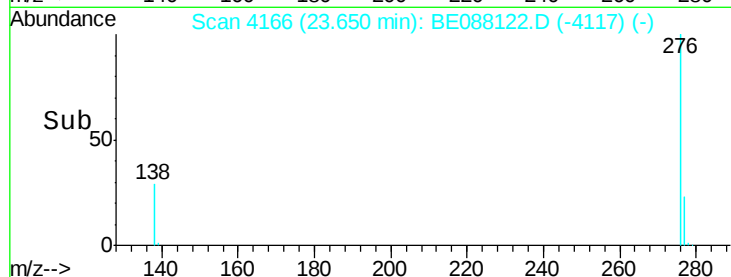
276 100

138 23.3 18.5 27.7

277 19.1 14.6 21.8

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#22

Perylene-d12

Concen: 5.00 ng

RT: 21.45 min Scan# 3728

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

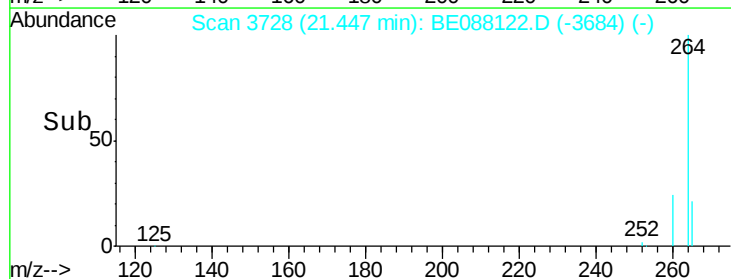
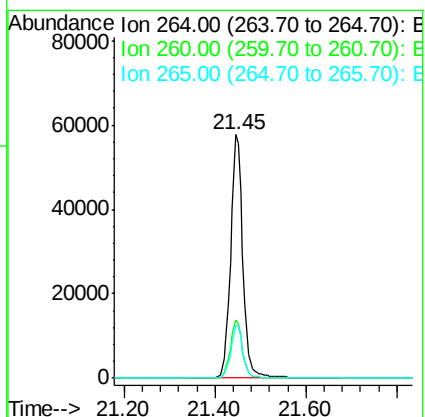
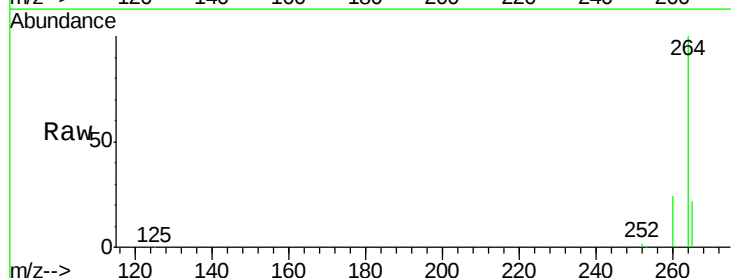
Tgt Ion: 264 Resp: 106531

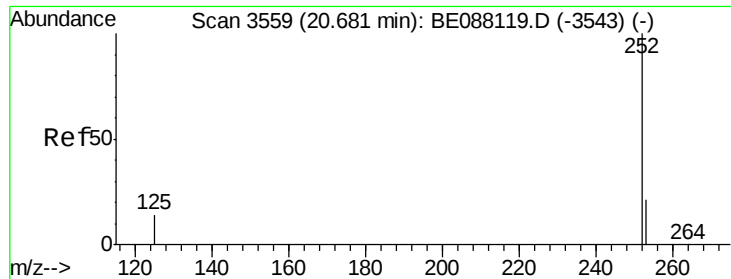
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

265 21.6 17.2 25.8





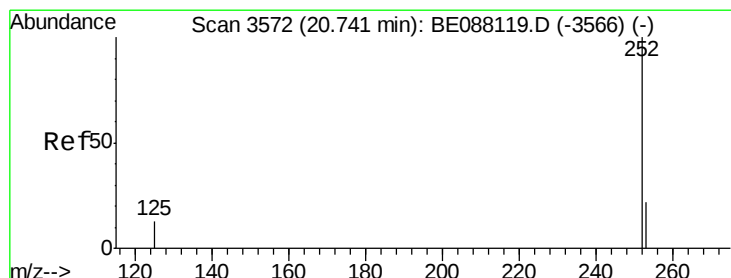
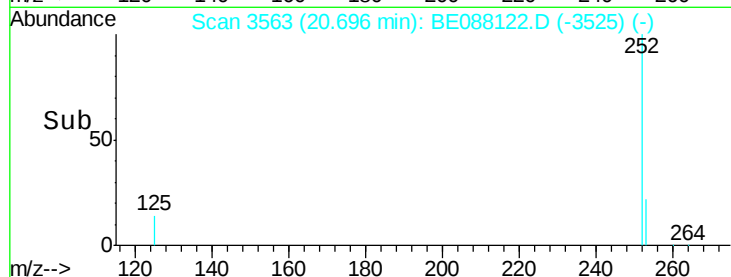
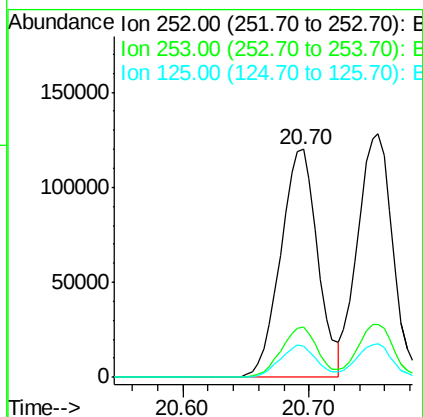
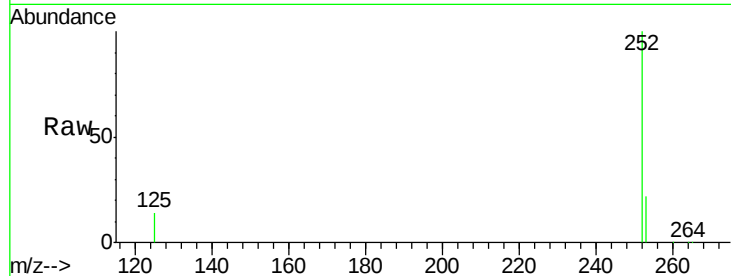
#23
Benzo(b)fluoranthene
Concen: 12.32 ng
RT: 20.70 min Scan# 3563
Delta R.T. 0.01 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	13.7	11.8	17.8

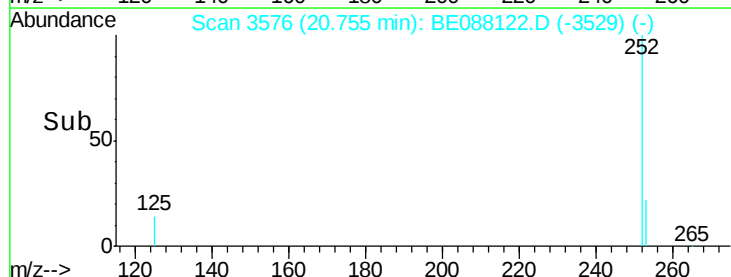
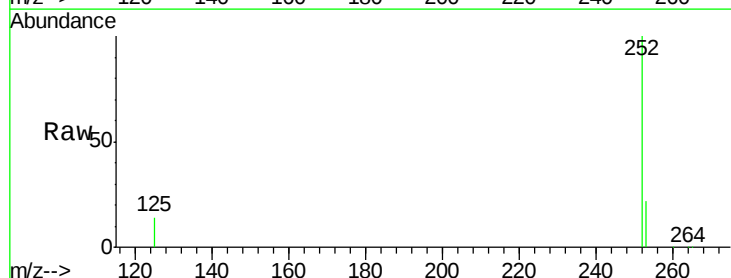
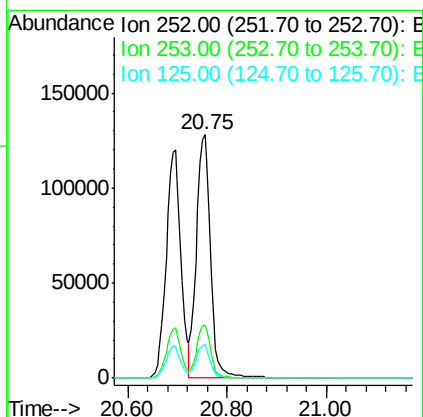
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#24
Benzo(k)fluoranthene
Concen: 9.14 ng
RT: 20.75 min Scan# 3576
Delta R.T. 0.01 min
Lab File: BE088122.D
Acq: 20 Oct 2014 23:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	13.6	11.5	17.3





#25

Benzo(a)pyrene

Concen: 13.70 ng

RT: 21.34 min Scan# 3704

Delta R.T. 0.01 min

Lab File: BE088122.D

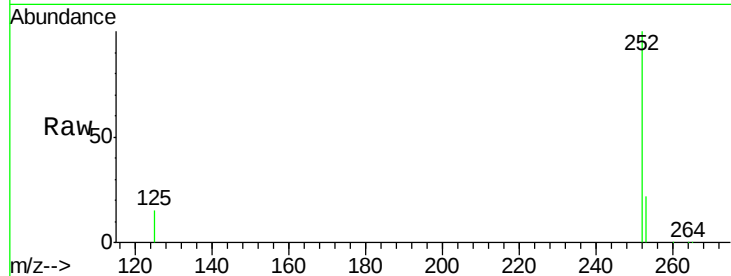
Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

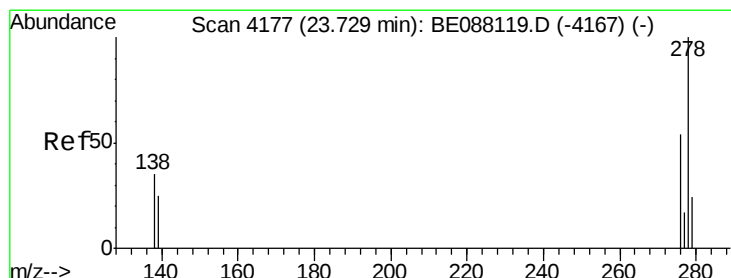
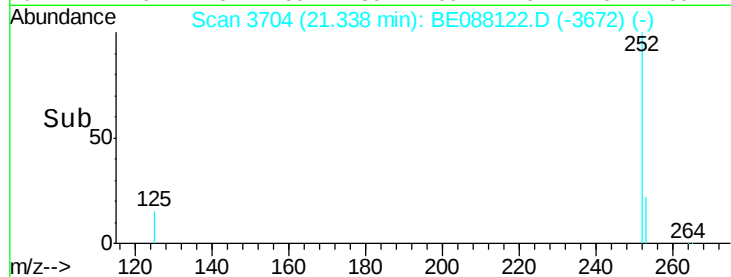
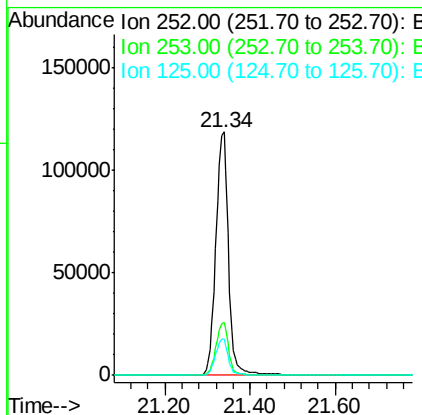
SSTDICC010



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	14.8	13.0	19.6

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#26

Dibenzo(a,h)anthracene

Concen: 12.70 ng

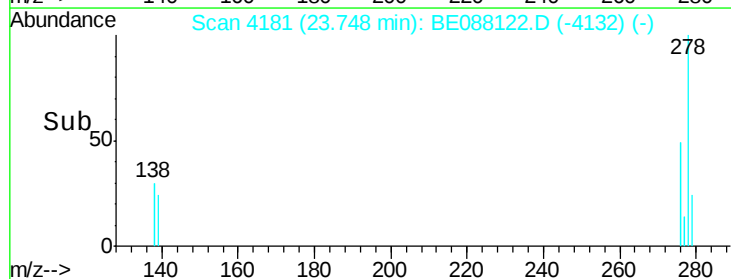
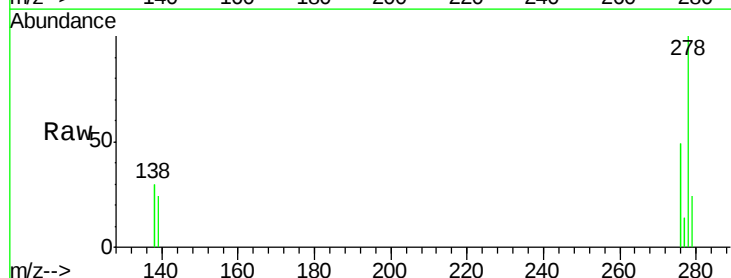
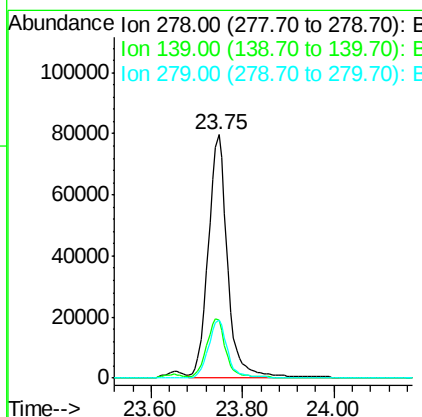
RT: 23.75 min Scan# 4181

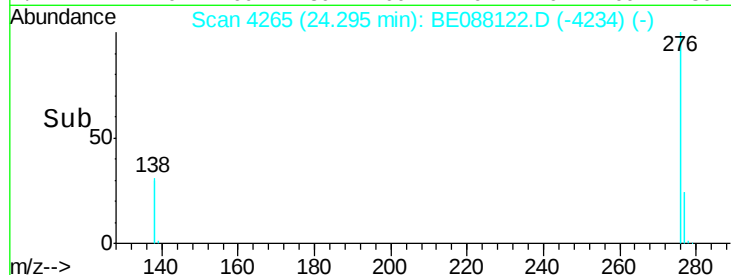
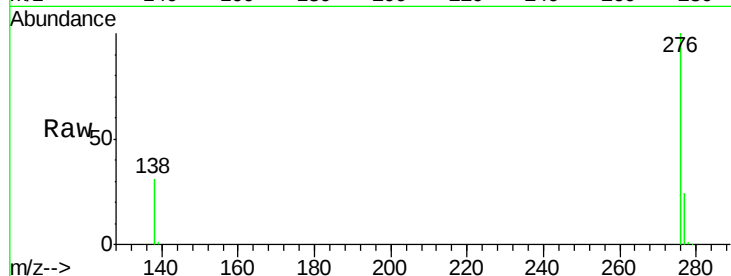
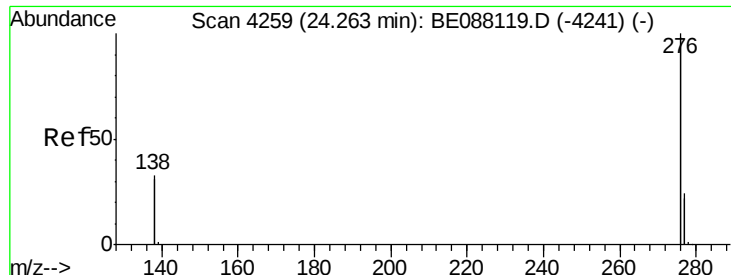
Delta R.T. 0.02 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.7	20.9	31.3
279	24.0	19.8	29.8





#27
 Benzo(g,h,i)perylene
 Concen: 11.35 ng
 RT: 24.30 min Scan# 4265
 Delta R.T. 0.03 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion:	276	Resp:	996560
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.2	28.8
138	30.7	26.6	40.0

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