

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088454.D
 Acq On : 1 Nov 2014 17:02
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:21 AM

Quant Time: Nov 02 04:33:37 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	7.08	152	27190	5.00	ng	0.00
3) Naphthalene-d8	8.64	136	103453	5.00	ng	-0.01
7) Acenaphthene-d10	10.79	164	46786	5.00	ng	0.00
12) Phenanthrene-d10	12.89	188	89397	5.00	ng	0.00
16) Chrysene-d12	18.30	240	62524	5.00	ng	-0.01
22) Perylene-d12	21.36	264	58787	5.00	ng	-0.01
System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	7831	1.03	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	13549	1.03	ng	0.00
18) Terphenyl-d14	16.06	244	10852	0.94	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	3771	1.06	ng	99
5) Naphthalene	8.66	128	22061	1.03	ng	100
6) 2-Methylnaphthalene	9.52	142	13424	1.01	ng	94
9) Acenaphthylene	10.61	152	77367	1.02	ng	99
10) Acenaphthene	10.83	154	11517	1.02	ng	99
11) Fluorene	11.48	166	12560	1.05	ng	100
13) Phenanthrene	12.93	178	96871	1.19	ng	99
14) Anthracene	13.02	178	72800	1.11	ng	99
15) Fluoranthene	15.17	202	16995	1.29	ng	100
17) Pyrene	15.62	202	18280	0.90	ng	100
19) Benzo(a)anthracene	18.27	228	61839	1.05	ng	97
20) Chrysene	18.35	228	59457	1.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.52	276	61265m	1.14	ng	
23) Benzo(b)fluoranthene	20.60	252	13885	1.08	ng	100
24) Benzo(k)fluoranthene	20.66	252	14816	1.04	ng	100
25) Benzo(a)pyrene	21.24	252	13358	1.08	ng	98
26) Dibenzo(a,h)anthracene	23.62	278	12163	1.06	ng	99
27) Benzo(g,h,i)perylene	24.14	276	55158	1.05	ng	99

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

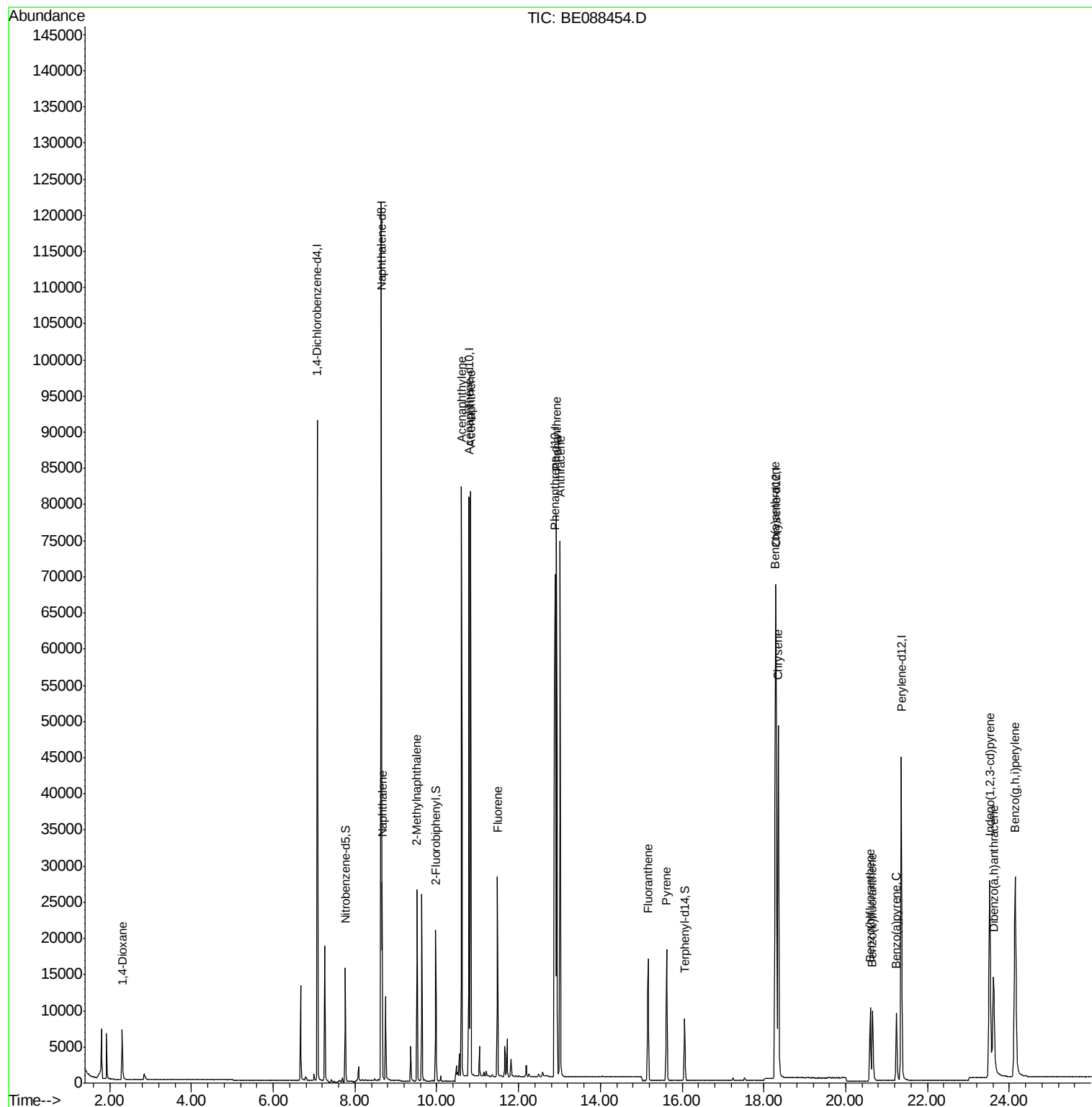
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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ALS Vial : 6 Sample Multiplier: 1

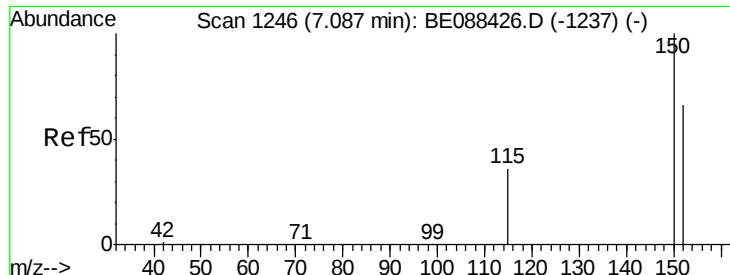
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BE088454.D

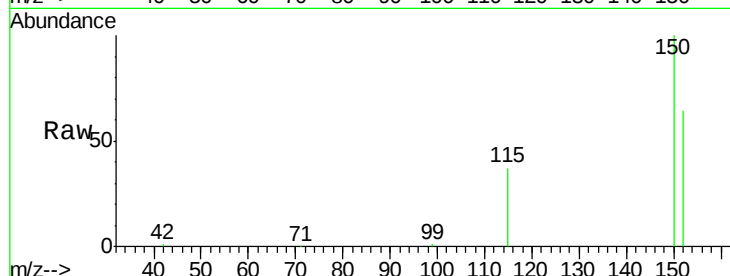
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



Tgt Ion: 152 Resp: 27190

Ion Ratio Lower Upper

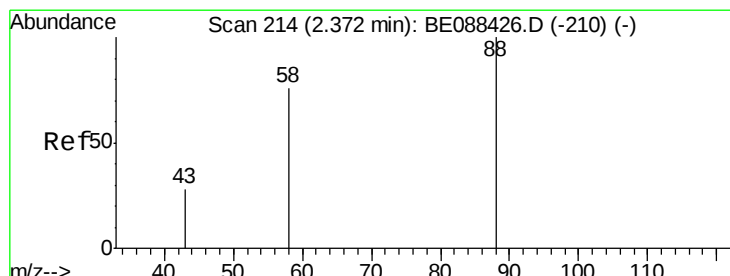
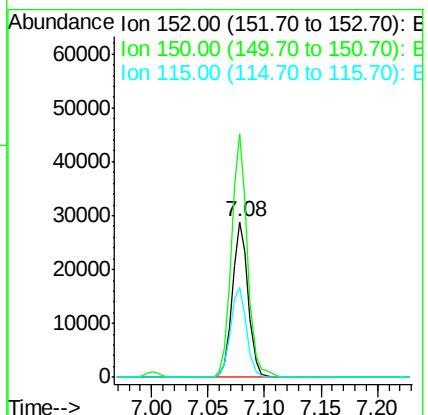
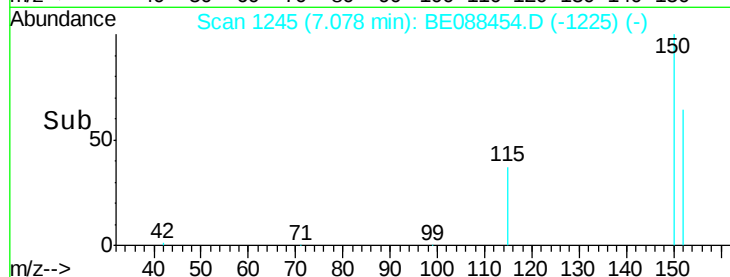
152 100

150 156.3 121.8 182.8

115 58.1 43.9 65.9

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#2

1,4-Dioxane

Concen: 1.06 ng

RT: 2.31 min Scan# 200

Delta R.T. -0.07 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

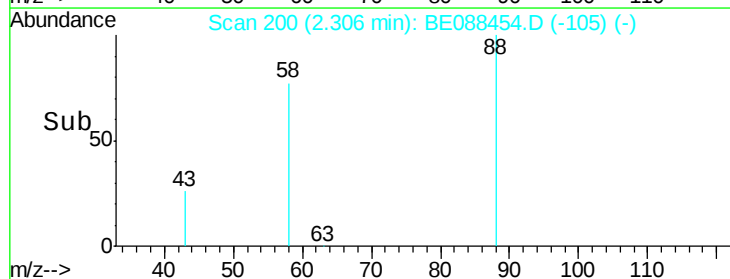
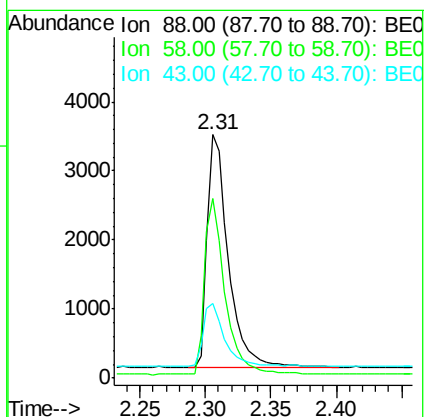
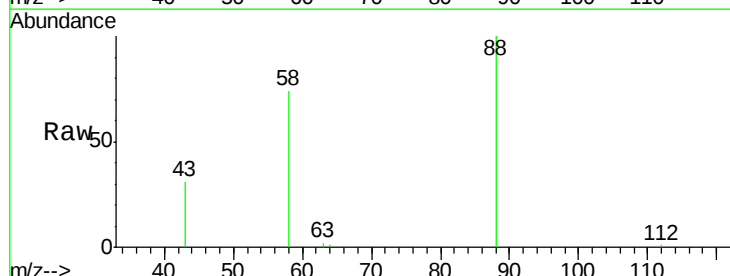
Tgt Ion: 88 Resp: 3771

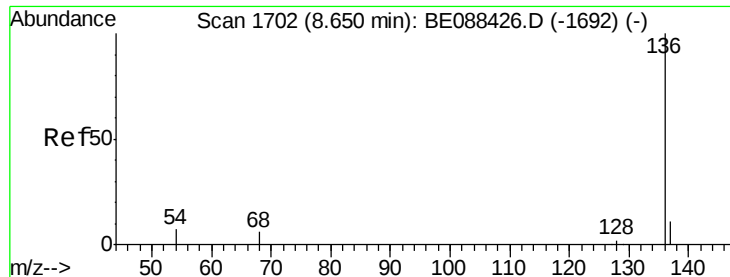
Ion Ratio Lower Upper

88 100

58 74.1 59.1 88.7

43 26.6 21.9 32.9





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.64 min Scan# 1700

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

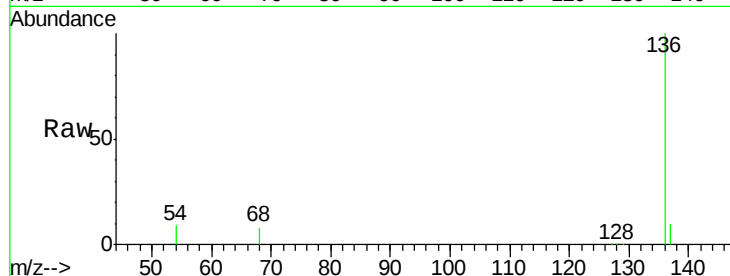
ClientSampleId :

SSTDCCC001

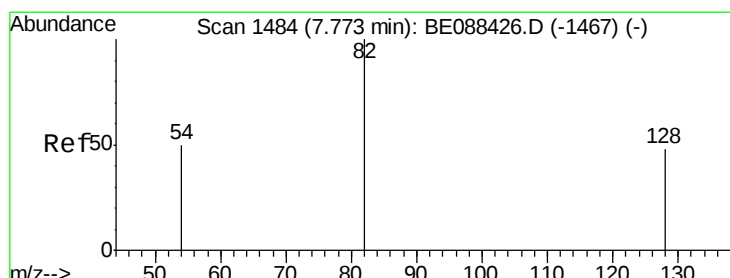
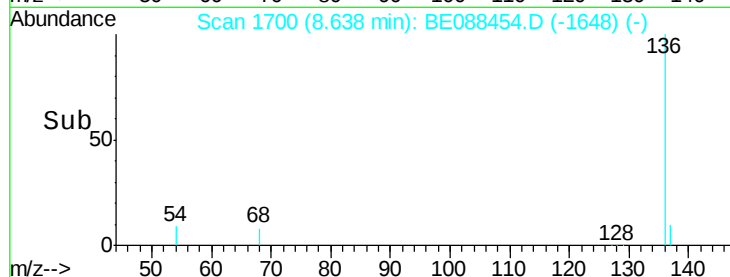
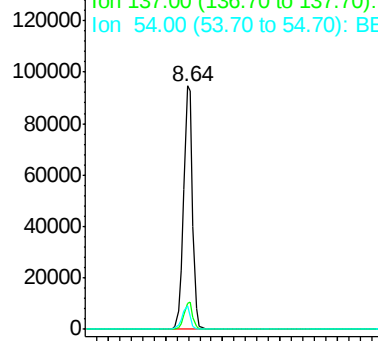
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	103453		
137	10.5	8.8	13.2	
54	9.5	5.3	7.9#	

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Abundance Ion 136.00 (135.70 to 136.70): BE088454.D (-1648) (-)



#4

Nitrobenzene-d5

Concen: 1.03 ng

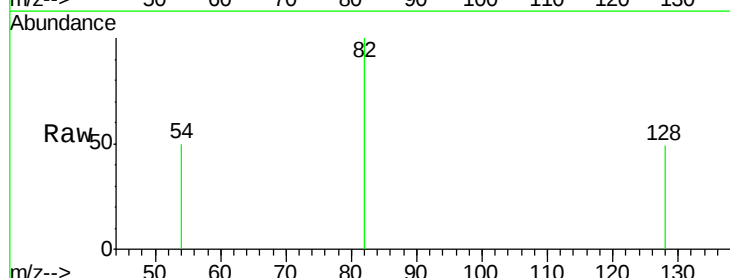
RT: 7.77 min Scan# 1482

Delta R.T. -0.01 min

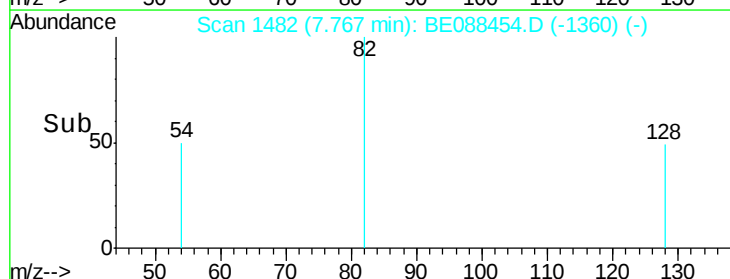
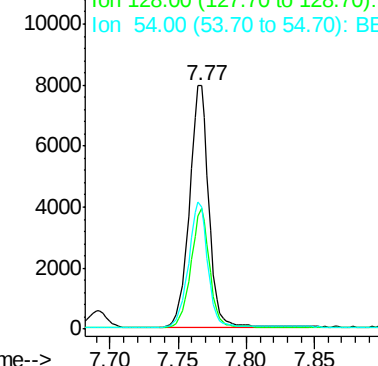
Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	7831		
128	49.4	38.4	57.6	
54	50.3	40.2	60.2	



Abundance Ion 82.00 (81.70 to 82.70): BE088454.D (-1360) (-)





#5

Naphthalene

Concen: 1.03 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088454.D

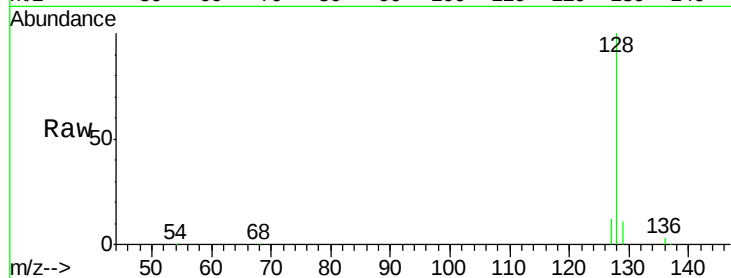
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

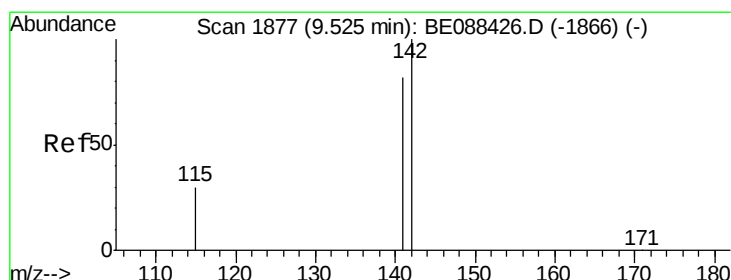
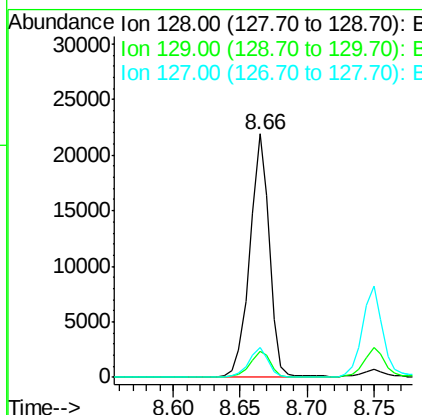
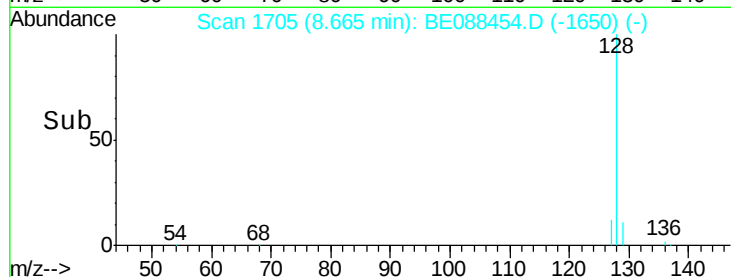
SSTDCCC001



Tgt Ion:	128	Resp:	22061
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.6	12.8
127	12.3	10.1	15.1

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#6

2-Methylnaphthalene

Concen: 1.01 ng

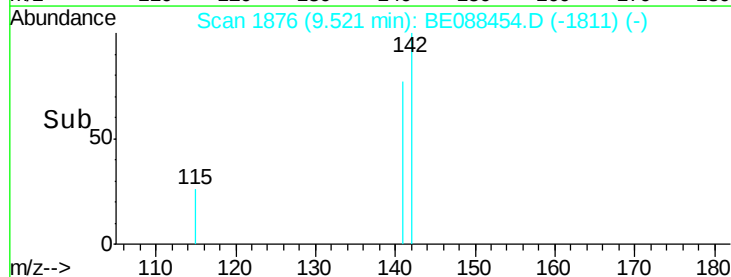
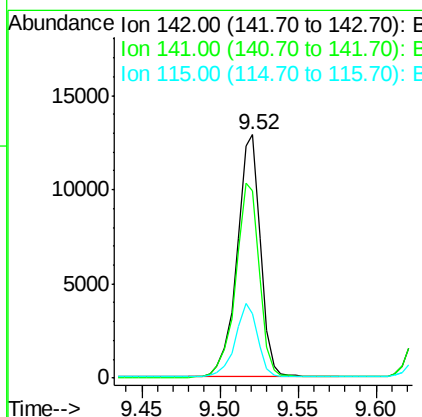
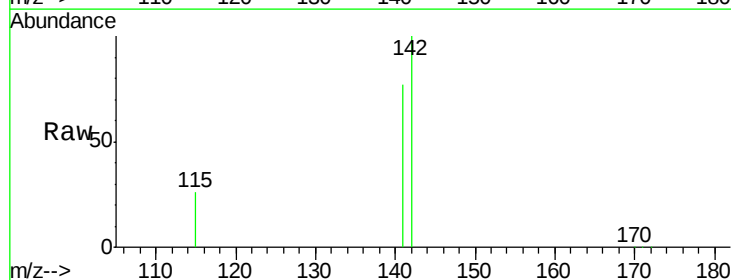
RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion:	142	Resp:	13424
Ion Ratio	Lower	Upper	
142	100		
141	77.1	65.8	98.8
115	26.3	24.2	36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088454.D

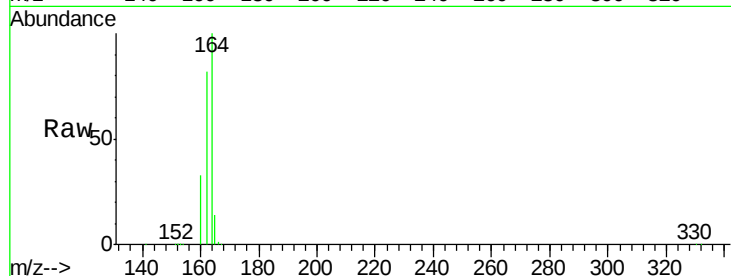
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



Tgt Ion:164 Resp: 46786

Ion Ratio Lower Upper

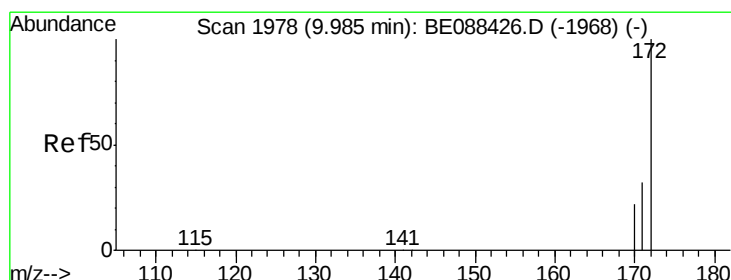
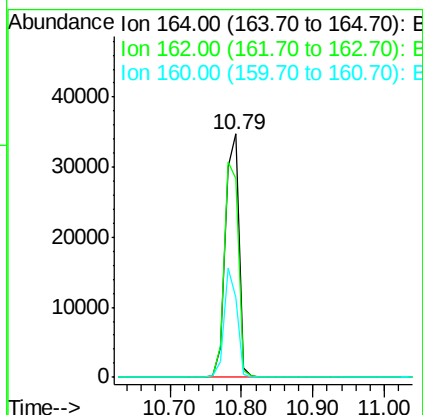
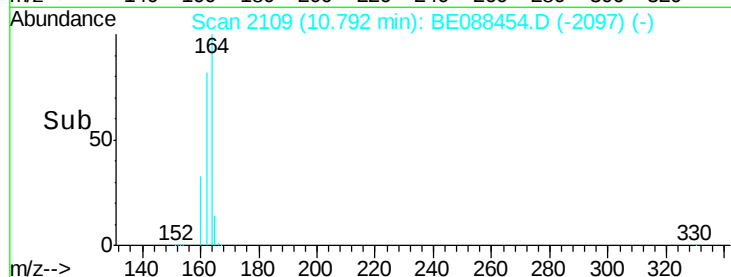
164 100

162 81.6 77.0 115.4

160 33.0 36.8 55.2#

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#8

2-Fluorobiphenyl

Concen: 1.03 ng

RT: 9.98 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

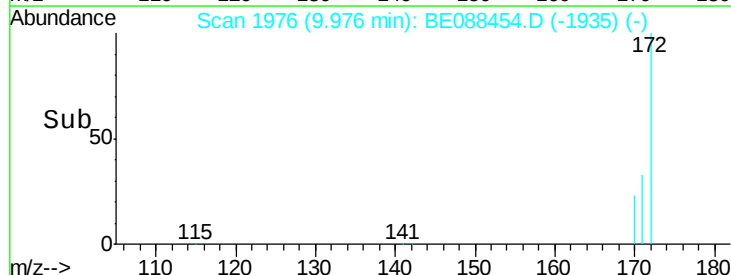
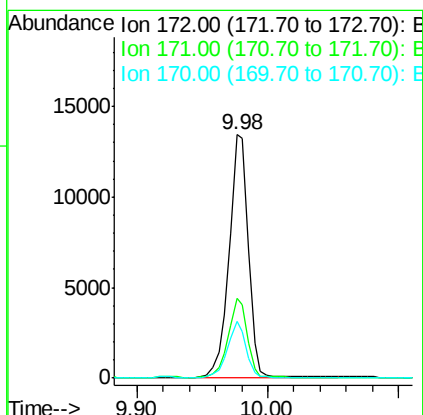
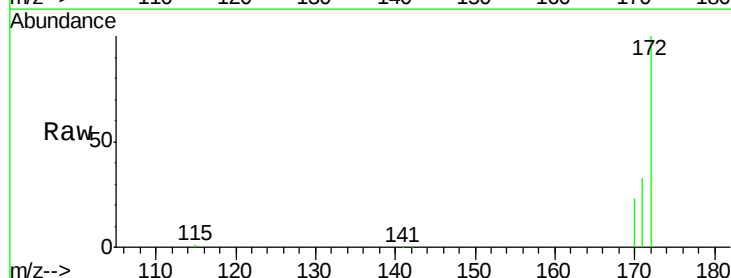
Tgt Ion:172 Resp: 13549

Ion Ratio Lower Upper

172 100

171 32.7 26.0 39.0

170 23.2 17.6 26.4





#9

Acenaphthylene

Concen: 1.02 ng

RT: 10.61 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BE088454.D

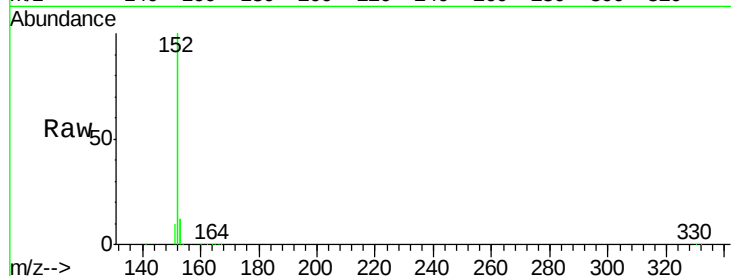
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

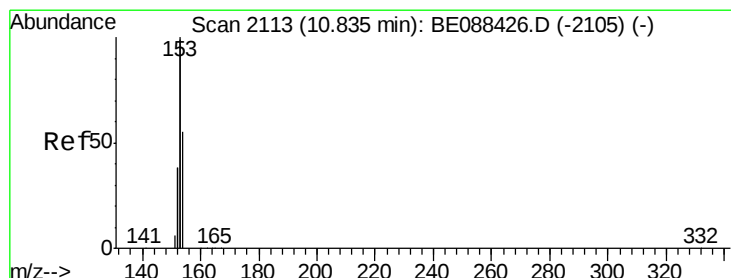
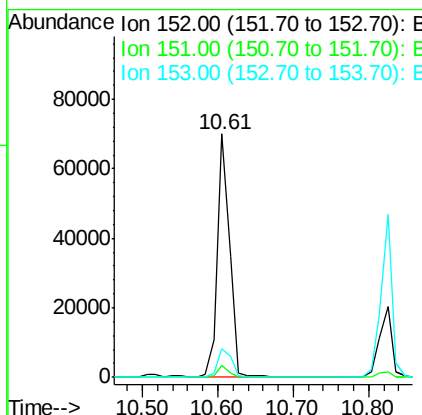
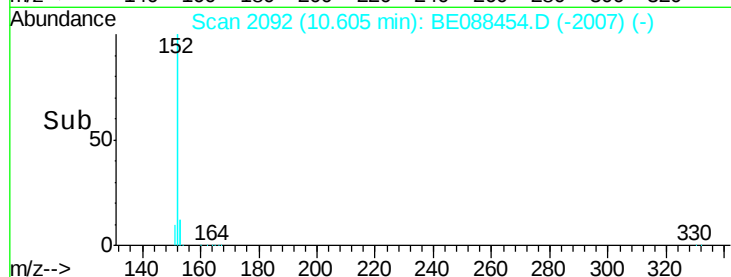
SSTDCCC001



Tgt Ion:	152	Resp:	77367
Ion Ratio	Lower	Upper	
152	100		
151	4.8	4.4	6.6
153	12.9	10.5	15.7

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#10

Acenaphthene

Concen: 1.02 ng

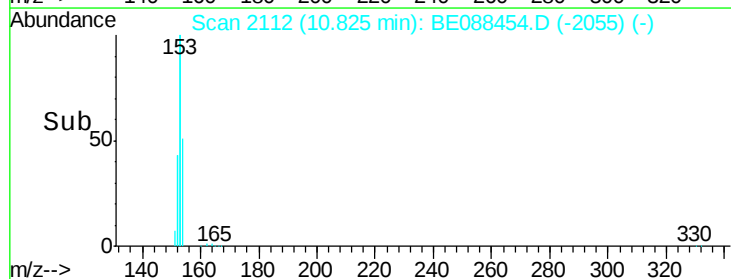
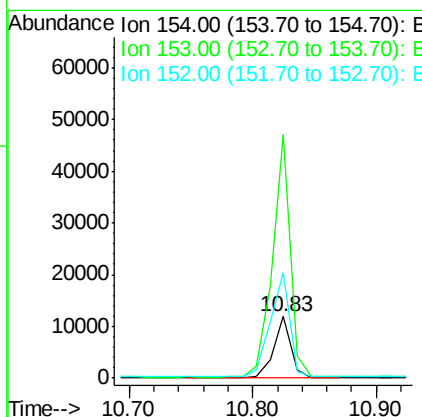
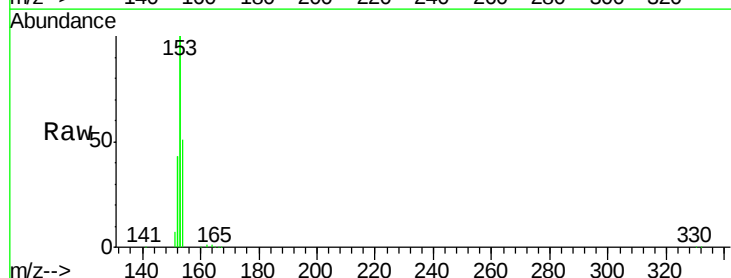
RT: 10.83 min Scan# 2112

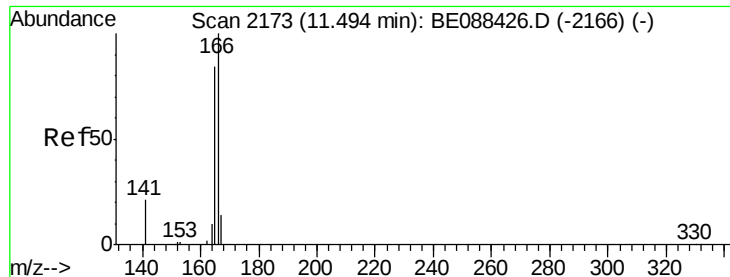
Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion:	154	Resp:	11517
Ion Ratio	Lower	Upper	
154	100		
153	407.2	324.3	486.5
152	193.4	154.9	232.3





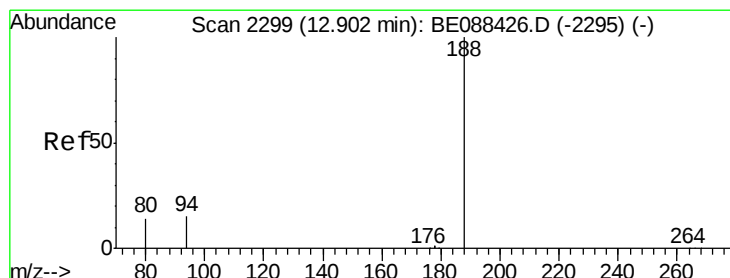
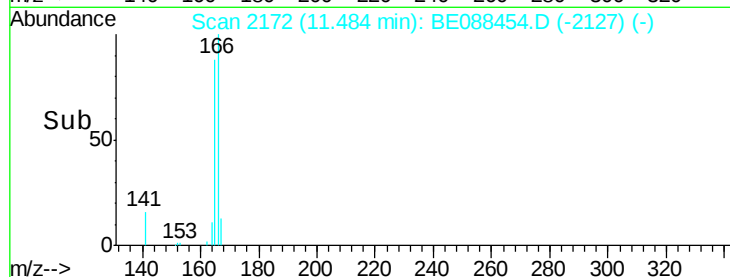
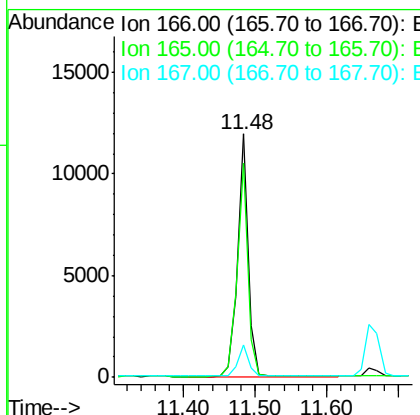
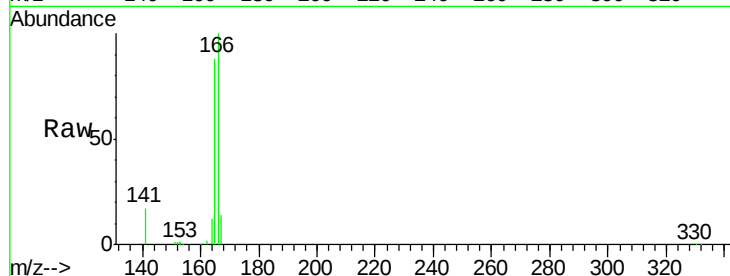
#11
Fluorene
 Concen: 1.05 ng
 RT: 11.48 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.4	71.3	106.9
167	13.2	10.7	16.1

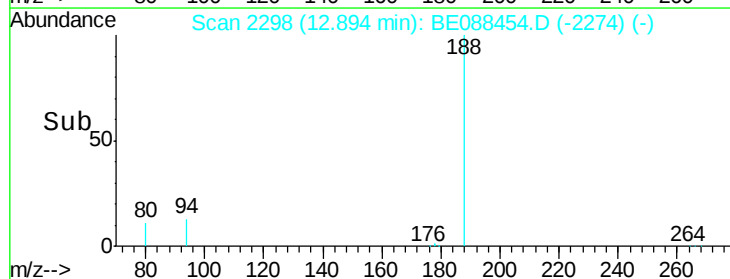
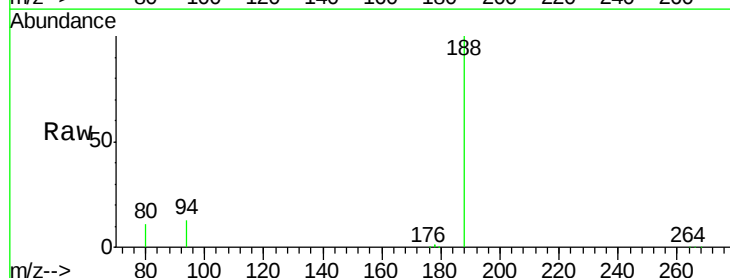
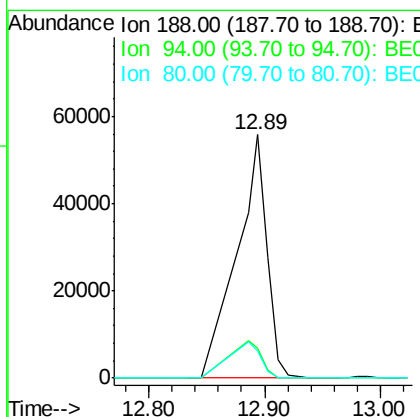
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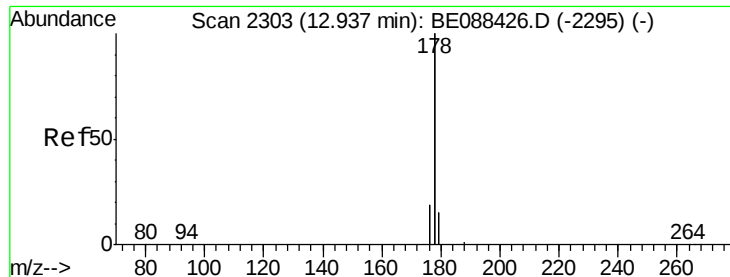
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.89 min Scan# 2298
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.5	11.8	17.8
80	11.1	10.9	16.3





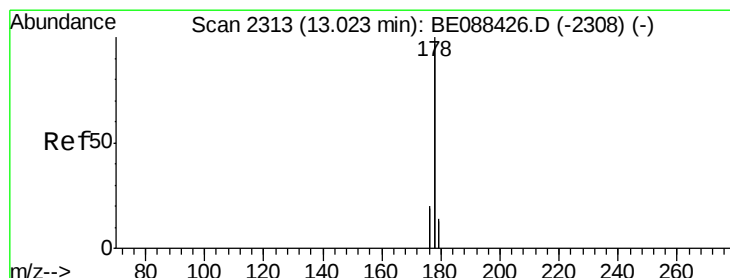
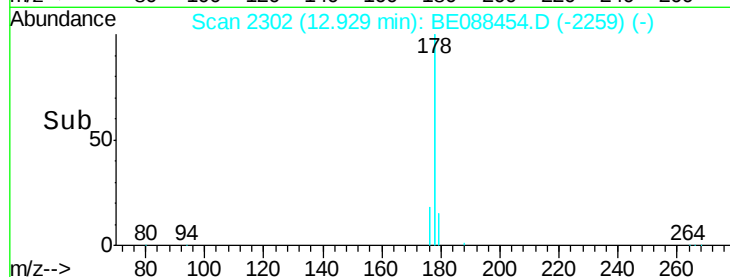
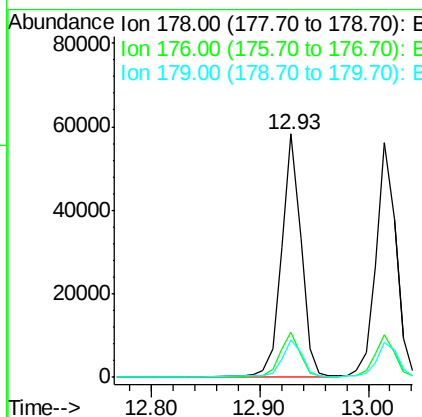
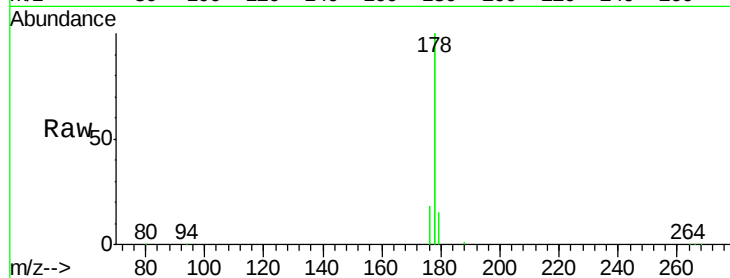
#13
Phenanthrene
Concen: 1.19 ng
RT: 12.93 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	16.6	12.8	19.2

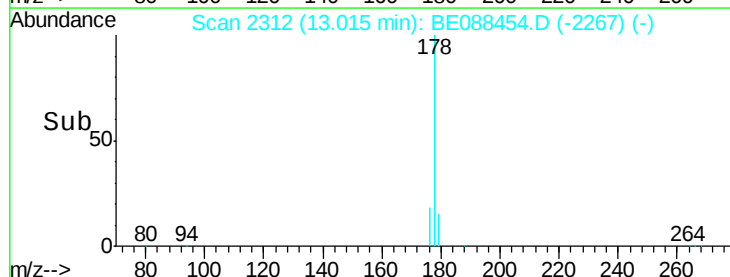
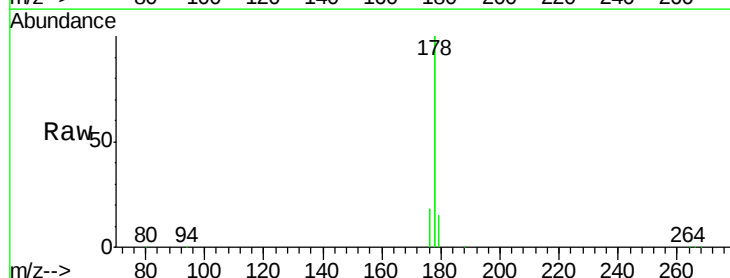
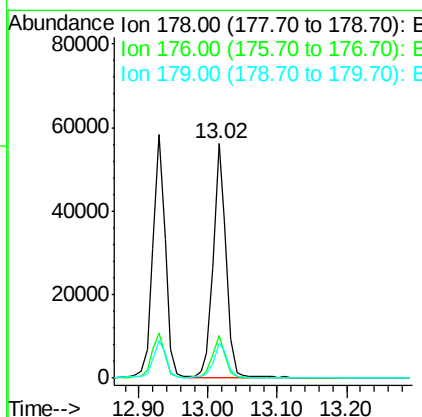
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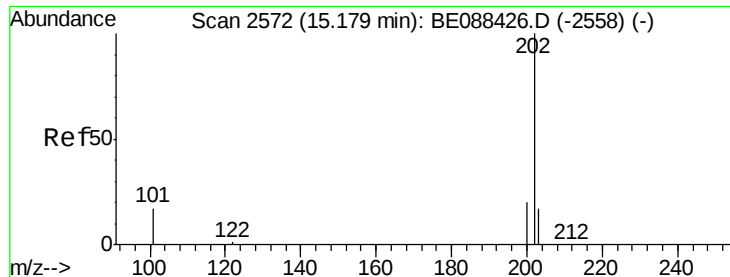
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#14
Anthracene
Concen: 1.11 ng
RT: 13.02 min Scan# 2312
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.4
179	15.7	12.5	18.7





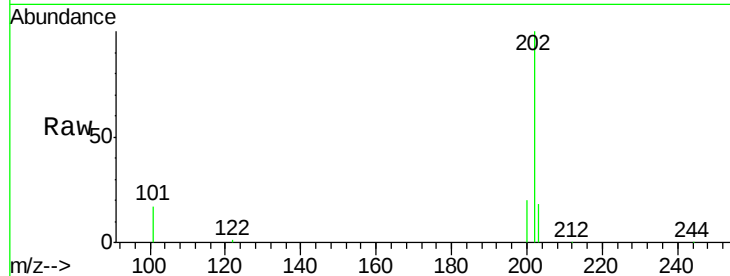
#15
Fluoranthene
 Concen: 1.29 ng
 RT: 15.17 min Scan# 2570
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

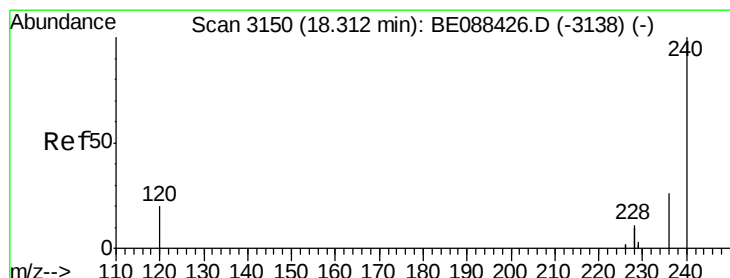
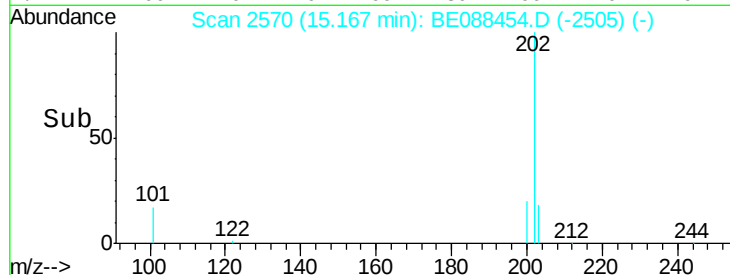
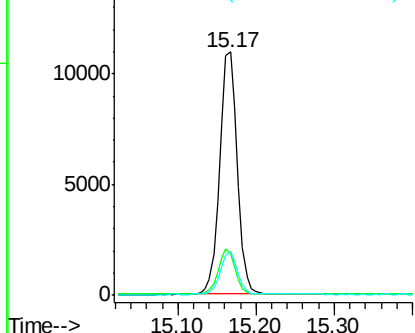
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	18.0	14.3	21.5
203	17.1	13.6	20.4

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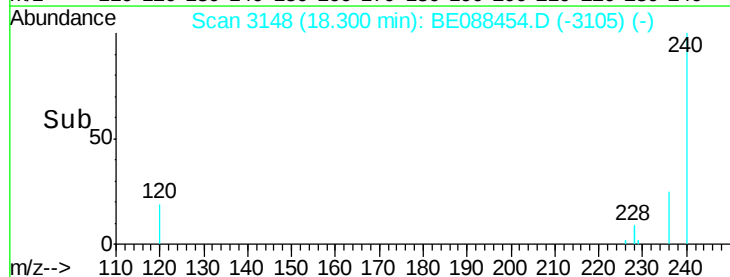
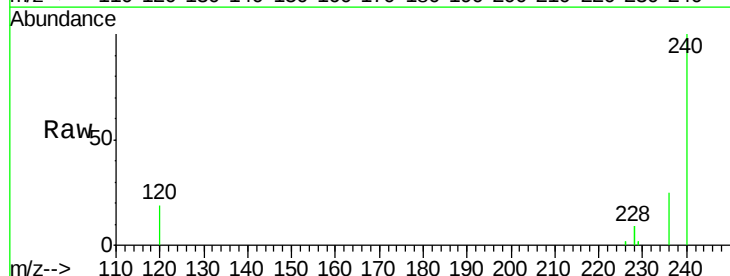
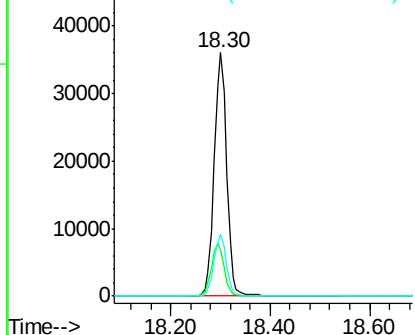
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

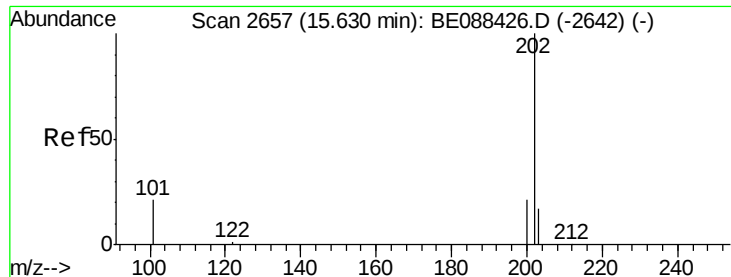


#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.30 min Scan# 3148
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	19.3	16.4	24.6
236	25.2	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: 0.90 ng

RT: 15.62 min Scan# 2656

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

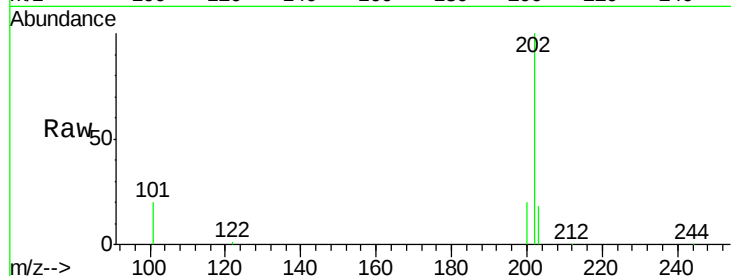
ClientSampleId :

SSTDCCC001

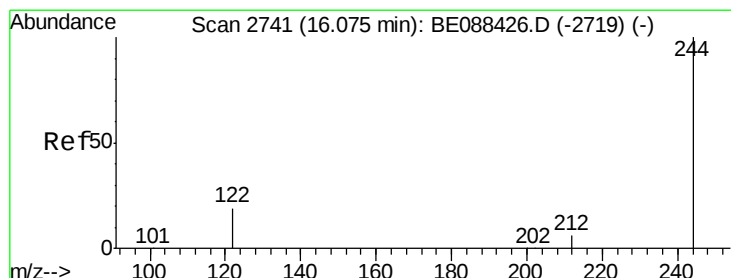
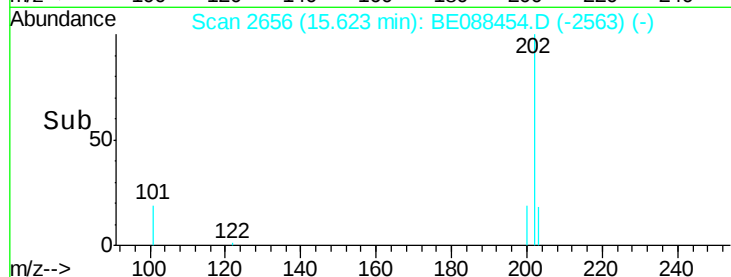
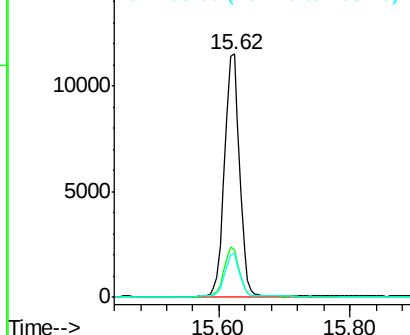
Tgt Ion:	202	Resp:	18280
Ion Ratio	Lower	Upper	
202	100		
200	20.0	16.1	24.1
203	17.3	13.8	20.8

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



#18

Terphenyl-d14

Concen: 0.94 ng

RT: 16.06 min Scan# 2739

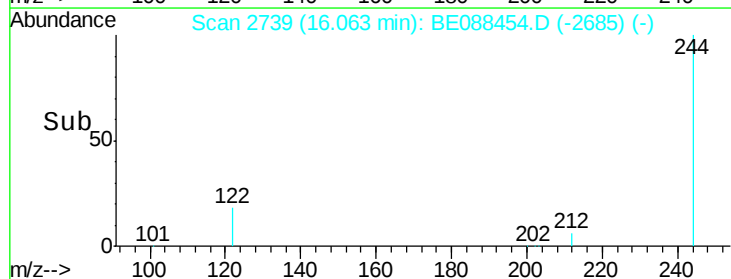
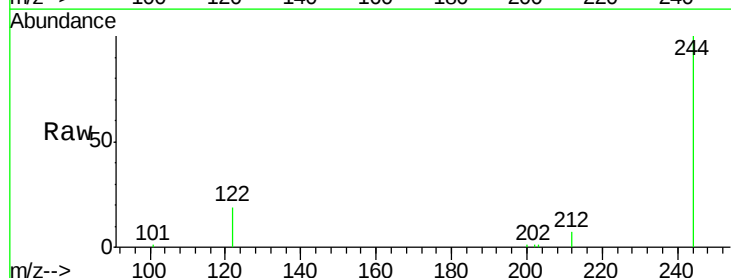
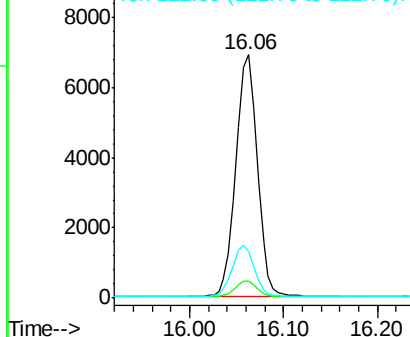
Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion:	244	Resp:	10852
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.5	8.3
122	19.1	15.6	23.4

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.05 ng

RT: 18.27 min Scan# 3144

Delta R.T. -0.02 min

Lab File: BE088454.D

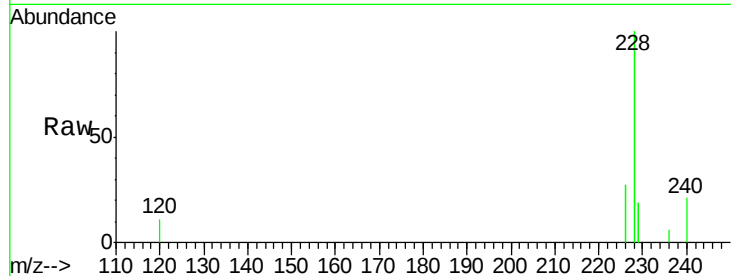
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

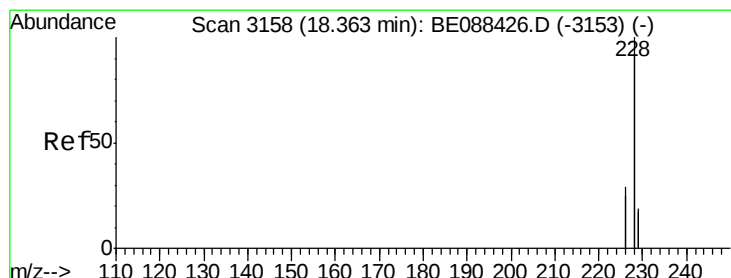
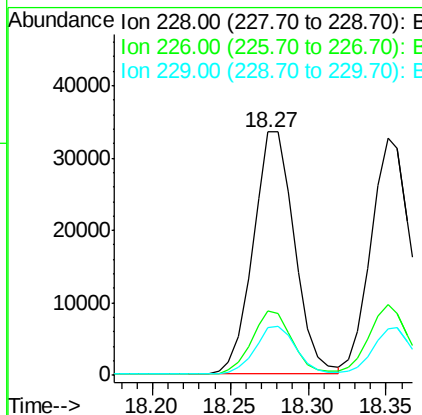
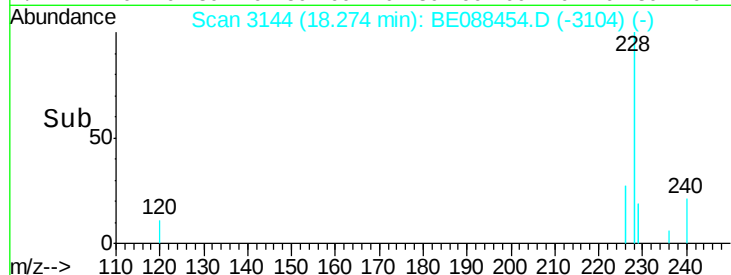
SSTDCCC001



Tgt Ion:	228	Resp:	61839
Ion Ratio	Lower	Upper	
228	100		
226	26.5	19.8	29.6
229	19.4	16.0	24.0

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#20

Chrysene

Concen: 1.03 ng

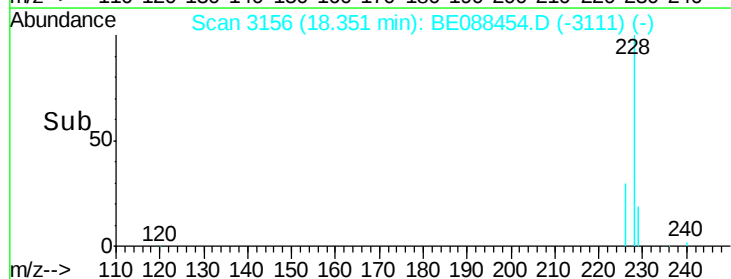
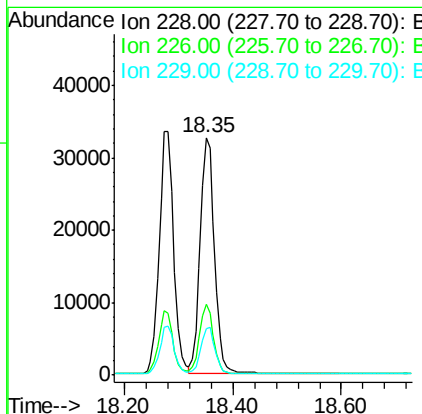
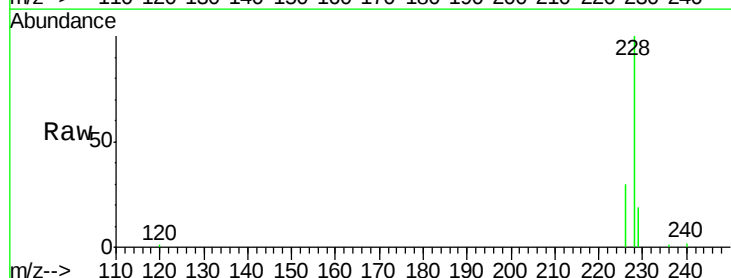
RT: 18.35 min Scan# 3156

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion:	228	Resp:	59457
Ion Ratio	Lower	Upper	
228	100		
226	29.6	23.6	35.4
229	19.5	15.4	23.2





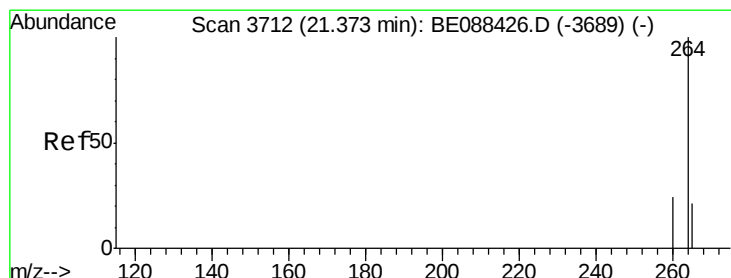
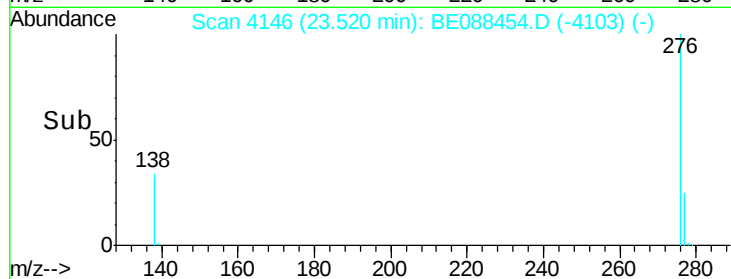
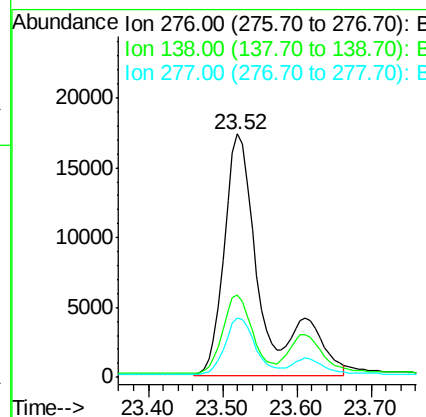
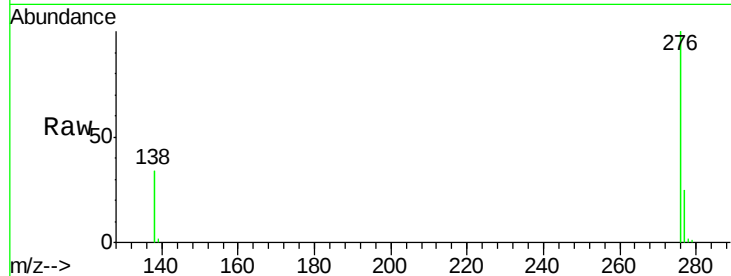
#21
Indeno(1,2,3-cd)pyrene
Concen: 1.14 ng m
RT: 23.52 min Scan# 4146
Delta R.T. -0.02 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.8	20.2	30.2
277	18.8	14.8	22.2

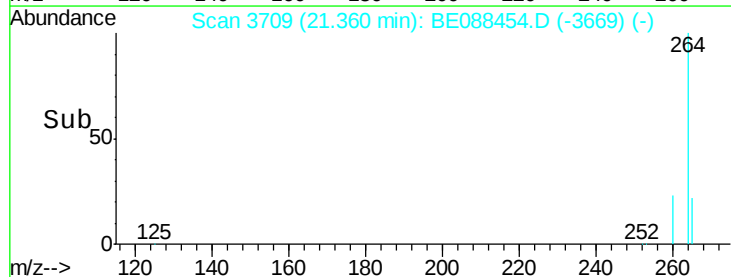
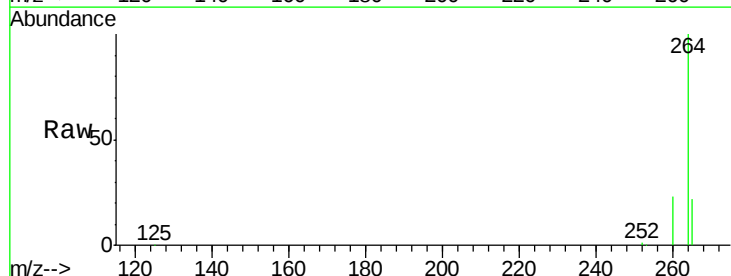
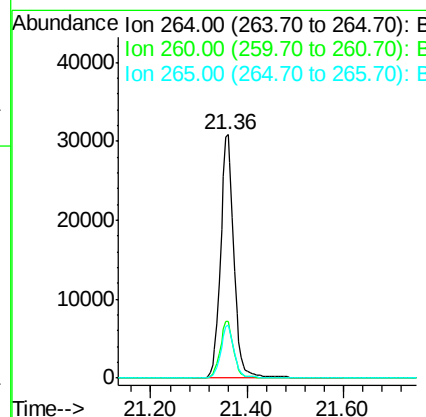
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.36 min Scan# 3709
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.9	28.3
265	21.9	17.2	25.8





#23

Benzo(b)fluoranthene

Concen: 1.08 ng

RT: 20.60 min Scan# 3542

Delta R.T. -0.01 min

Lab File: BE088454.D

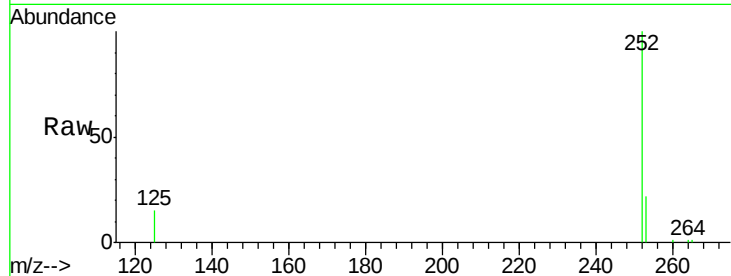
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

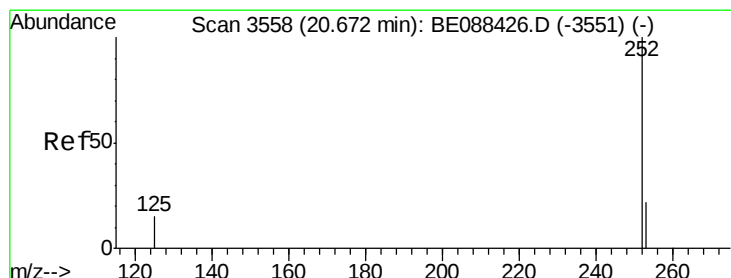
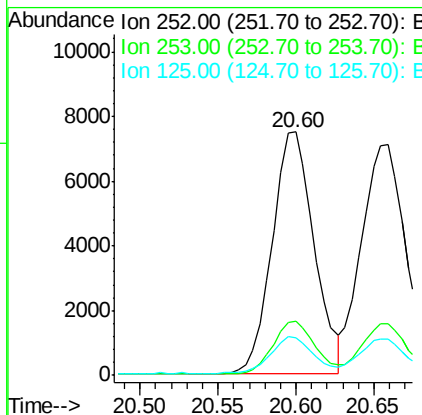
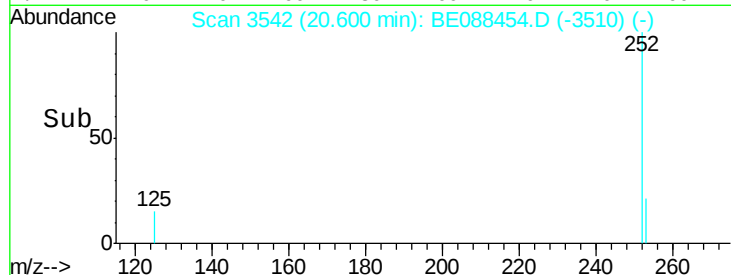
SSTDCCC001



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	15.5	12.3	18.5

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#24

Benzo(k)fluoranthene

Concen: 1.04 ng

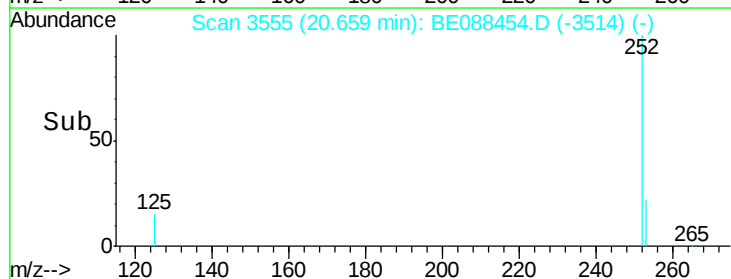
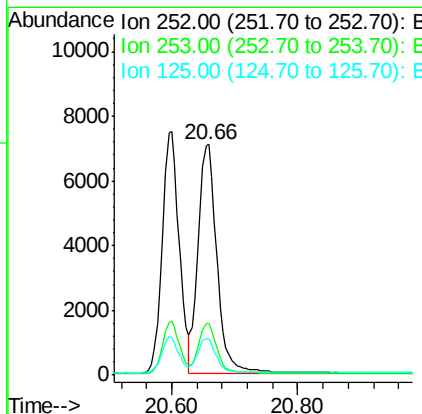
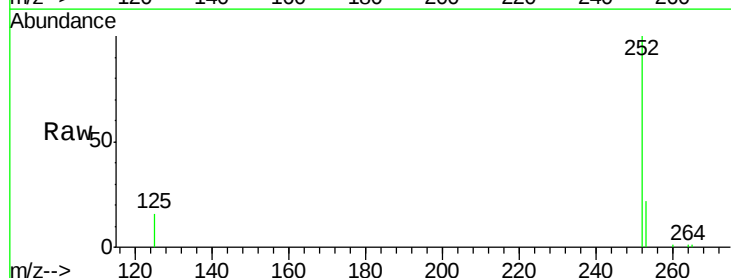
RT: 20.66 min Scan# 3555

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	15.7	12.2	18.4





#25

Benzo(a)pyrene

Concen: 1.08 ng

RT: 21.24 min Scan# 3682

Delta R.T. -0.02 min

Lab File: BE088454.D

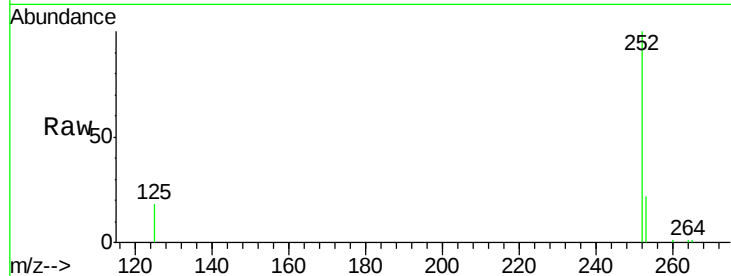
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

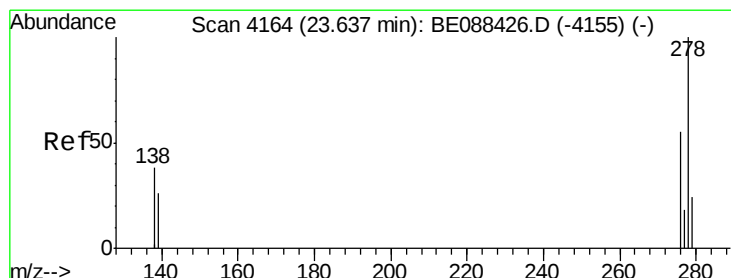
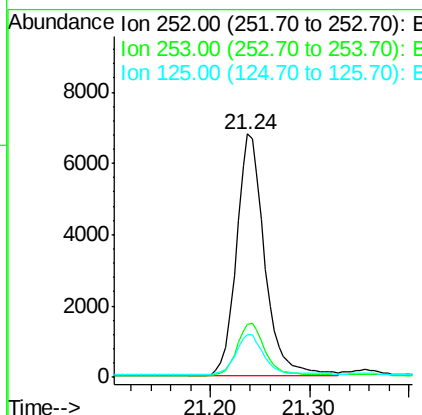
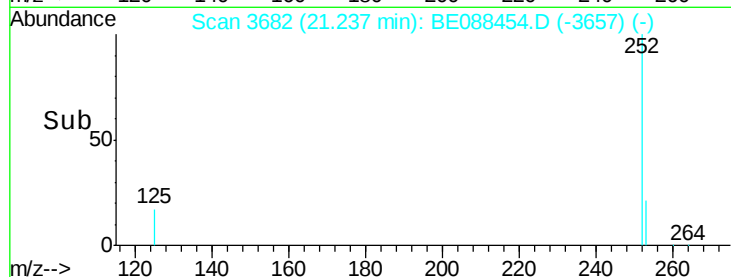
SSTDCCC001



Tgt Ion:	252	Resp:	13358
Ion Ratio	Lower	Upper	
252	100		
253	21.7	18.2	27.4
125	17.7	13.7	20.5

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#26

Dibenzo(a,h)anthracene

Concen: 1.06 ng

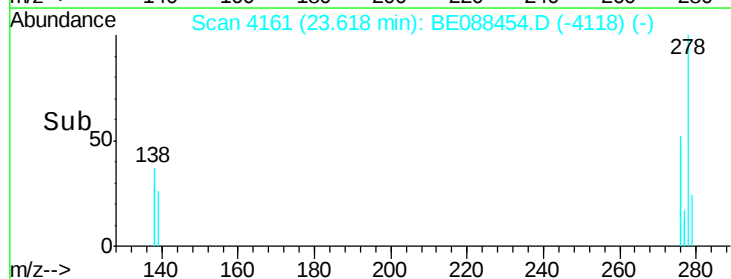
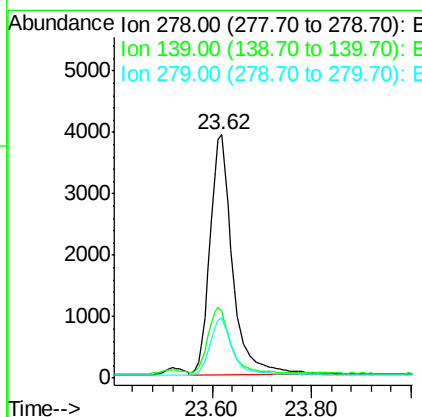
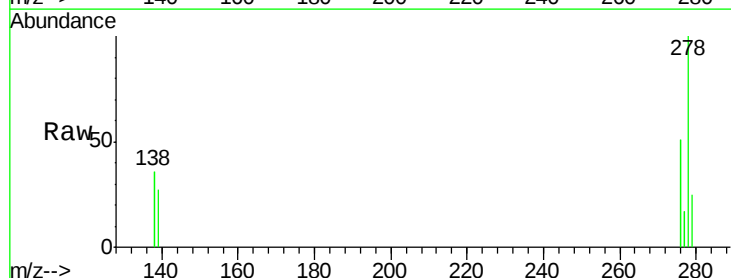
RT: 23.62 min Scan# 4161

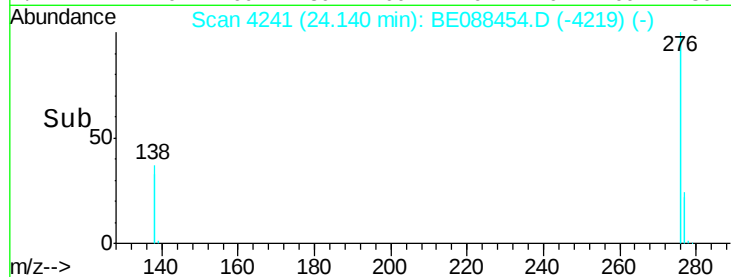
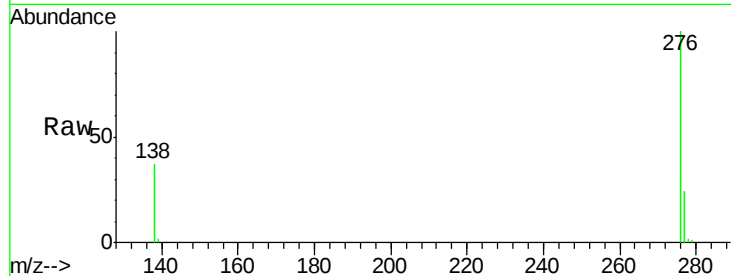
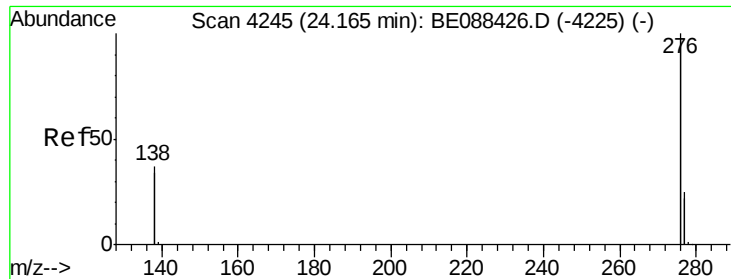
Delta R.T. -0.02 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Tgt Ion:	278	Resp:	12163
Ion Ratio	Lower	Upper	
278	100		
139	27.5	22.1	33.1
279	25.0	19.7	29.5





#27
 Benzo(g,h,i)perylene
 Concen: 1.05 ng
 RT: 24.14 min Scan# 4241
 Delta R.T. -0.03 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.2	19.8	29.6
138	36.8	29.3	43.9

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