

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088165.D
 Acq On : 22 Oct 2014 5:14
 Operator : TP/JJ
 Sample : F4303-13DL 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS04-1014DL

Manual Integrations
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 10/22/2014 1:55:45 PM

Quant Time: Oct 22 05:48:44 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 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	21551	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	84869	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	45193	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	87932	5.00	ng	0.00
16) Chrysene-d12	18.38	240	50860	5.00	ng	0.00
22) Perylene-d12	21.44	264	42932	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	71658	11.71	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	115659	9.27	ng	0.00
18) Terphenyl-d14	16.15	244	90770	11.09	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	1494	0.09	ng	95
6) 2-Methylnaphthalene	9.58	142	555	0.05	ng	# 97
9) Acenaphthylene	10.66	152	5821	0.08	ng	99
10) Acenaphthene	10.88	154	2566	0.24	ng	95
11) Fluorene	11.55	166	2925	0.26	ng	98
13) Phenanthrene	13.00	178	206366	3.10	ng	95
14) Anthracene	13.09	178	47407m	0.69	ng	
15) Fluoranthene	15.25	202	67367	4.03	ng	99
17) Pyrene	15.70	202	57695	4.17	ng	97
19) Benzo(a)anthracene	18.36	228	85978	1.90	ng	98
20) Chrysene	18.44	228	86478	1.95	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	43790	0.89	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	21226	2.08	ng	98
24) Benzo(k)fluoranthene	20.74	252	9388	0.86	ng	97
25) Benzo(a)pyrene	21.32	252	15528	1.65	ng	97
26) Dibenzo(a,h)anthracene	23.72	278	2147	0.23	ng	# 87
27) Benzo(g,h,i)perylene	24.26	276	43915	1.08	ng	99

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

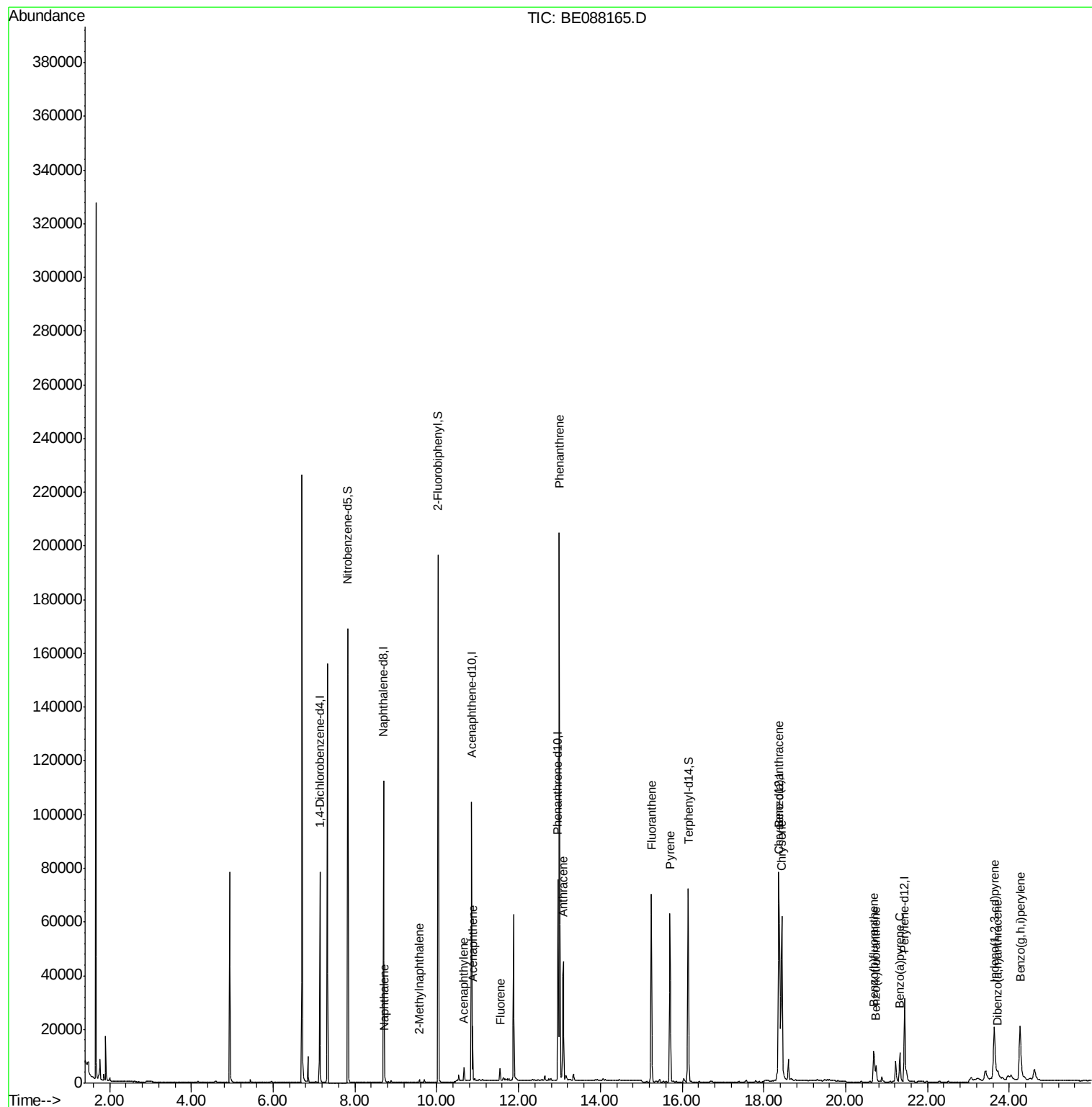
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
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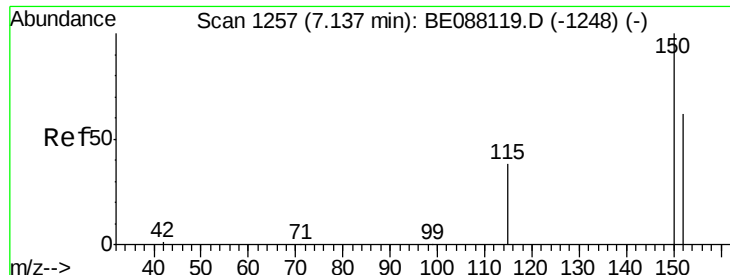
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088165.D

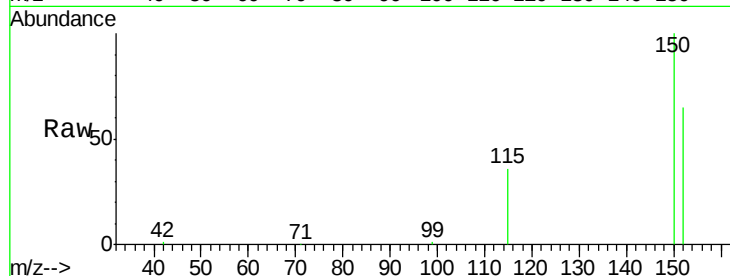
Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL



Tgt Ion:152 Resp: 21551

Ion Ratio Lower Upper

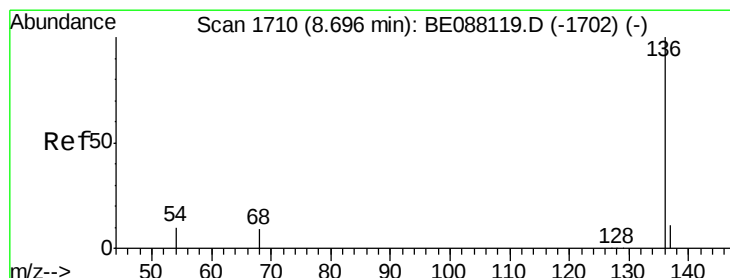
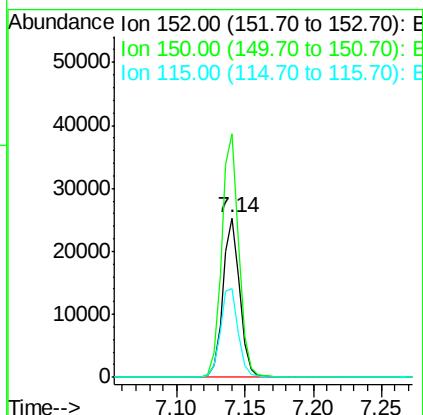
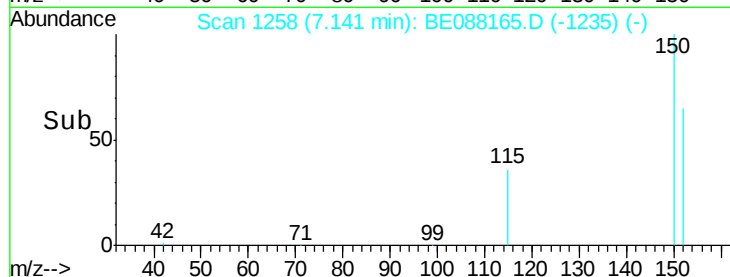
152 100

150 152.8 129.2 193.8

115 55.3 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

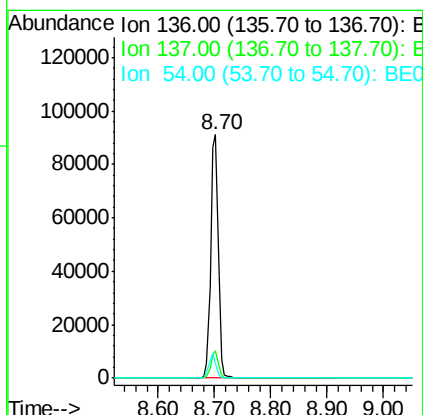
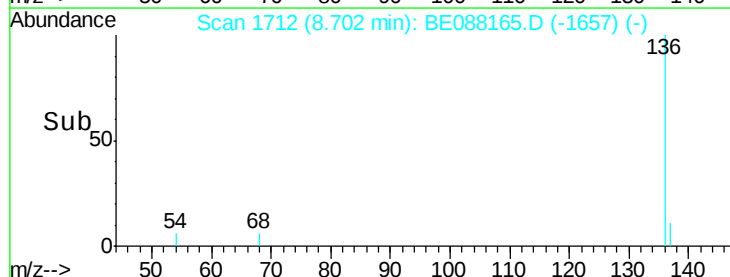
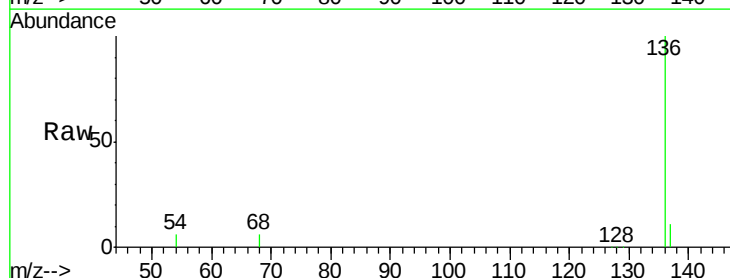
Tgt Ion:136 Resp: 84869

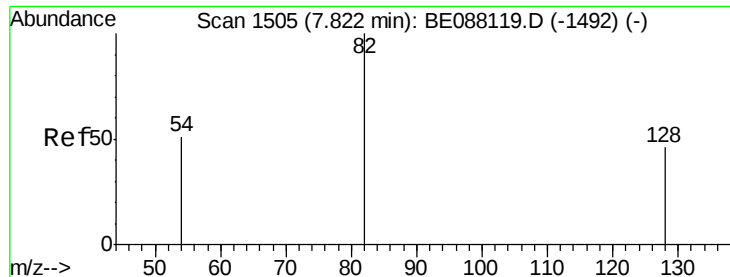
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 5.7 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 11.71 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

Tgt Ion: 82 Resp: 71658

Ion Ratio Lower Upper

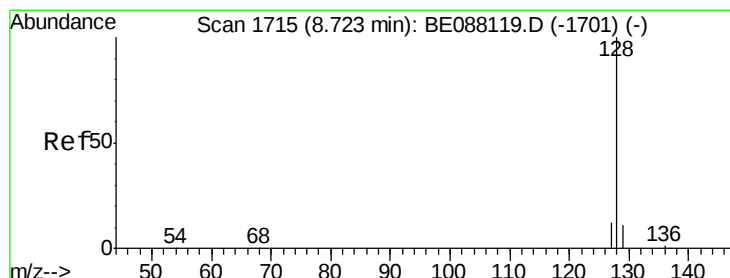
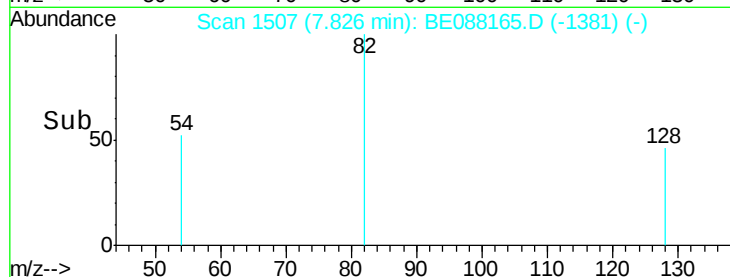
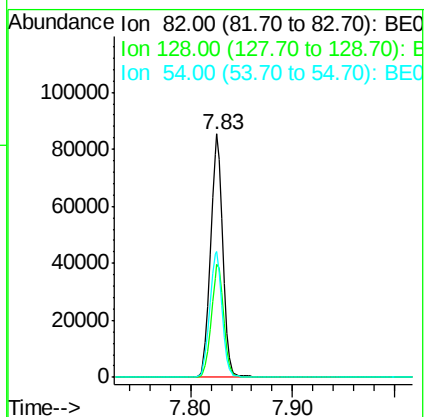
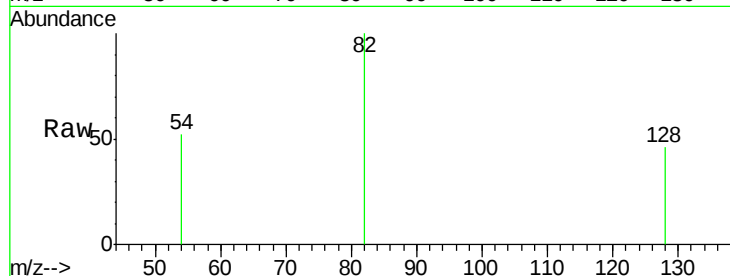
82 100

128 46.2 37.1 55.7

54 52.0 41.1 61.7

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#5

Naphthalene

Concen: 0.09 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

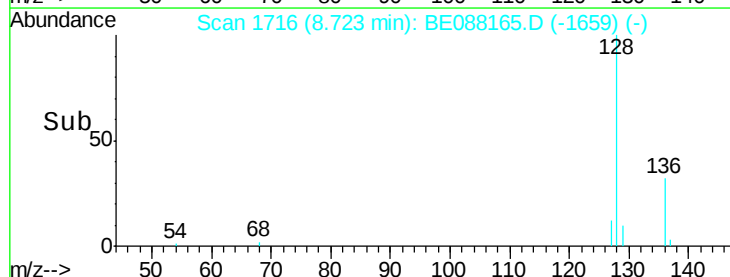
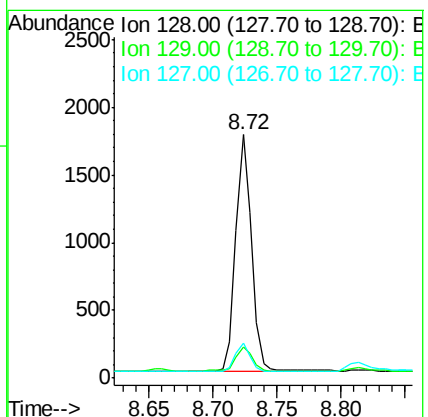
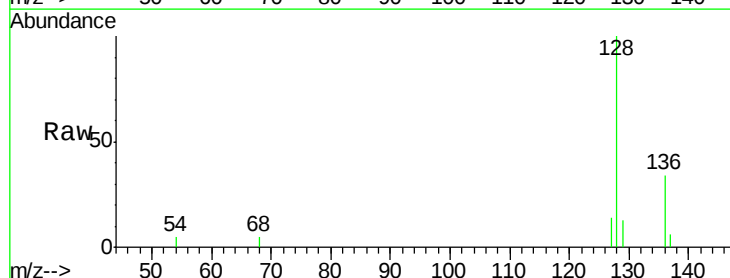
Tgt Ion: 128 Resp: 1494

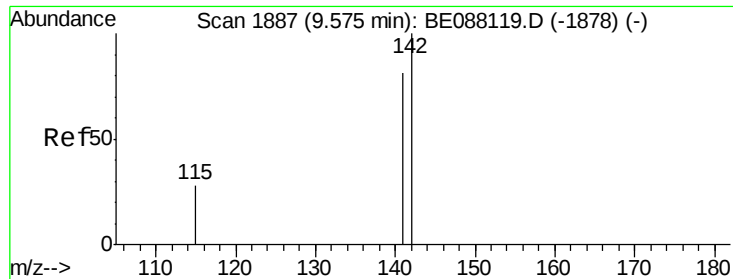
Ion Ratio Lower Upper

128 100

129 13.0 8.9 13.3

127 14.2 9.7 14.5





#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

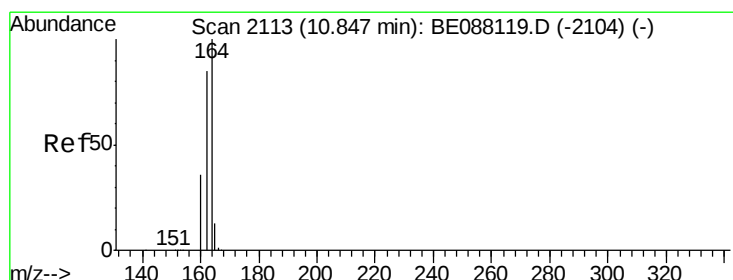
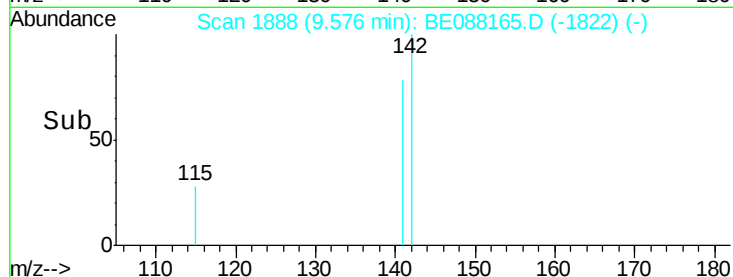
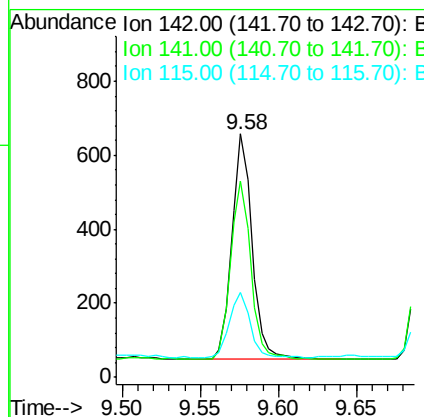
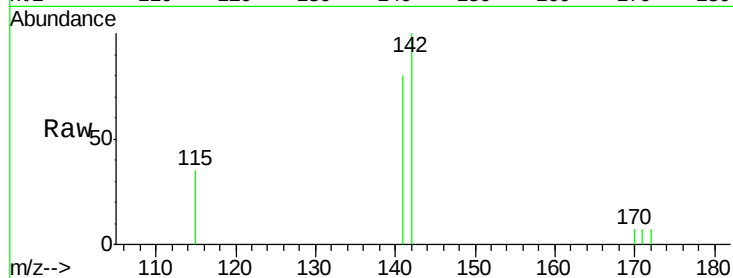
ClientSampleId :

YS19-SS04-1014DL

Tgt Ion:	142	Resp:	555
Ion Ratio	Lower	Upper	
142	100		
141	80.4	64.6	97.0
115	34.7	22.6	34.0#

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#7

Acenaphthene-d10

Concen: 5.00 ng

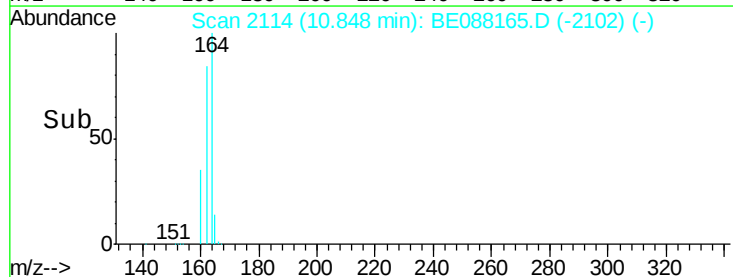
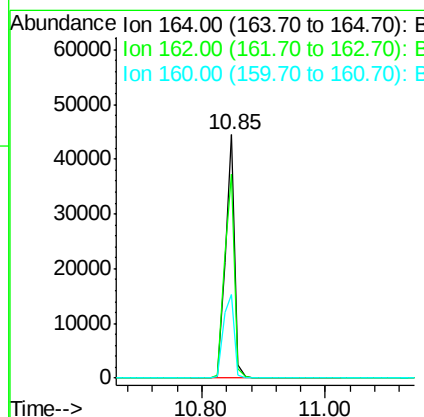
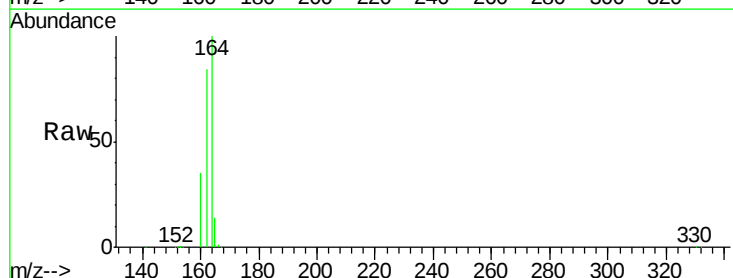
RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:	164	Resp:	45193
Ion Ratio	Lower	Upper	
164	100		
162	83.9	68.3	102.5
160	34.6	28.7	43.1





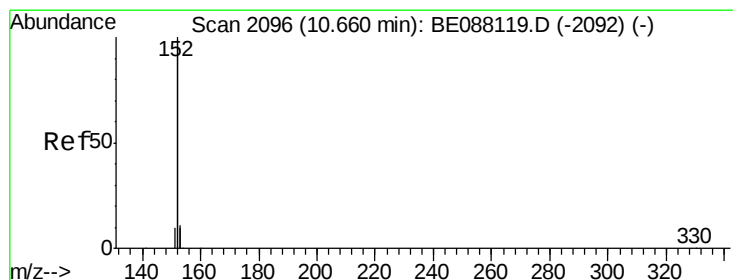
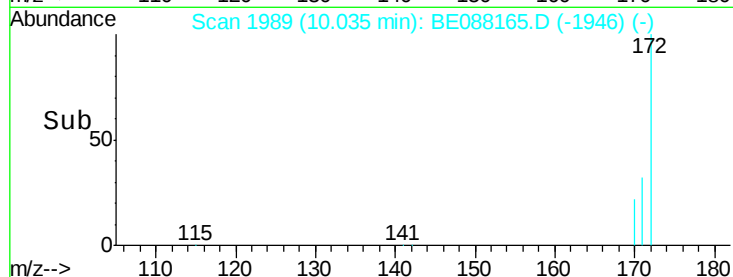
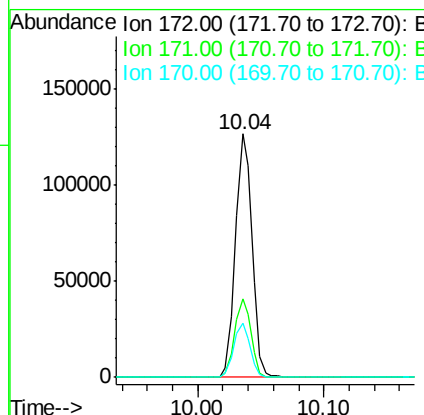
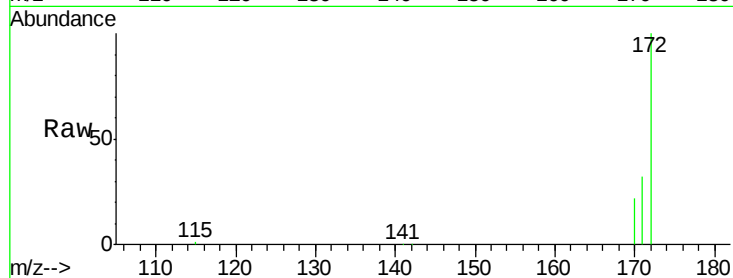
#8
2-Fluorobiphenyl
Concen: 9.27 ng
RT: 10.04 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	115659		
171	32.5	25.4	38.2	
170	22.2	17.4	26.2	

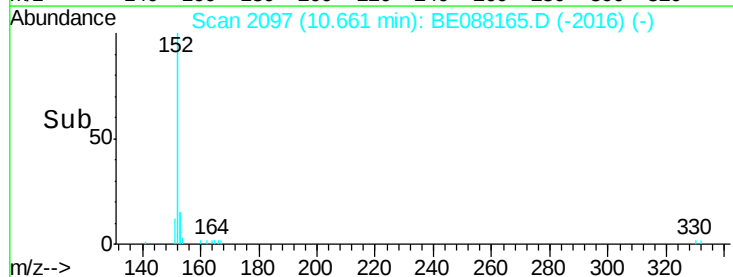
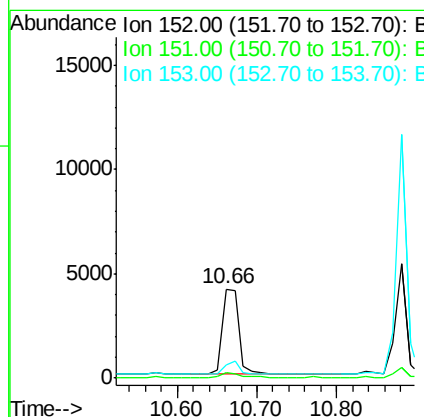
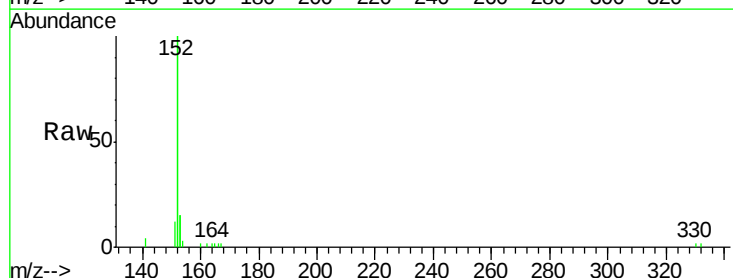
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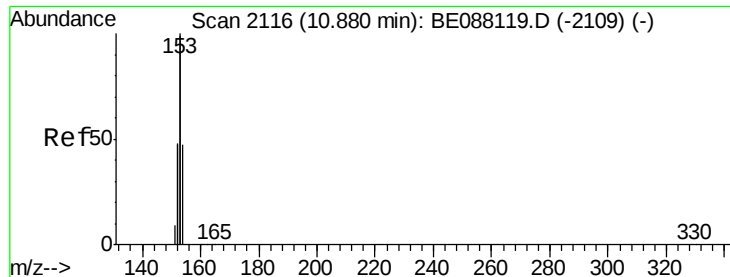
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#9
Acenaphthylene
Concen: 0.08 ng
RT: 10.66 min Scan# 2097
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	5821		
151	4.7	3.7	5.5	
153	13.6	10.4	15.6	





#10

Acenaphthene

Concen: 0.24 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

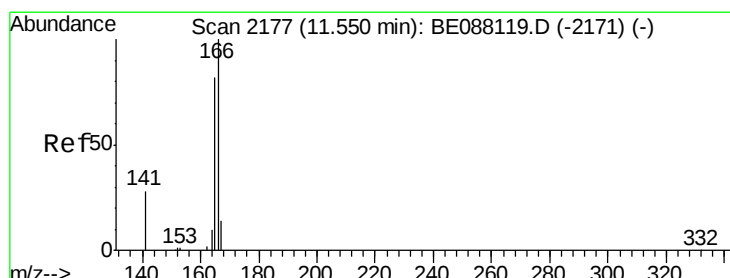
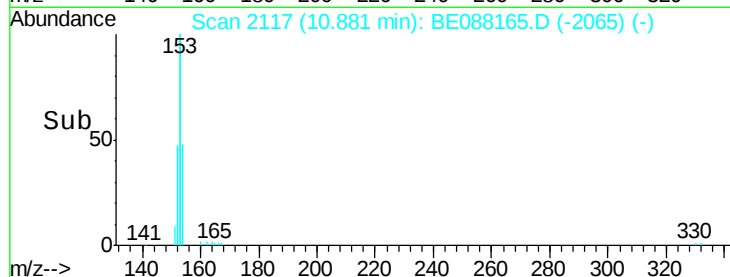
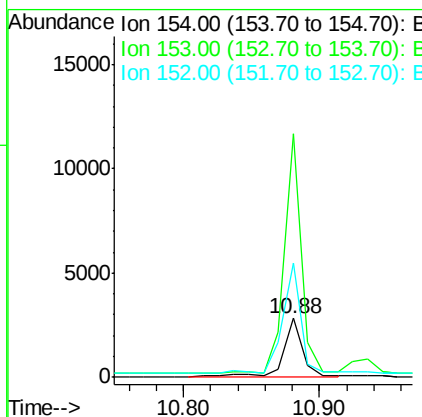
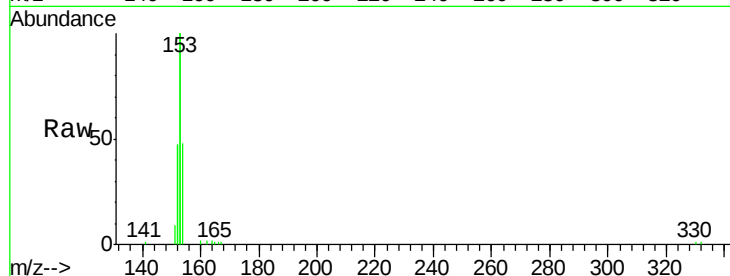
ClientSampleId :

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Tgt Ion:	154	Resp:	2566
Ion Ratio	Lower	Upper	
154	100		
153	391.5	327.8	491.6
152	196.8	157.6	236.4



#11

Fluorene

Concen: 0.26 ng

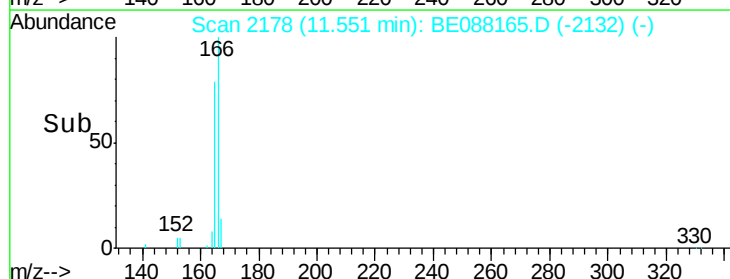
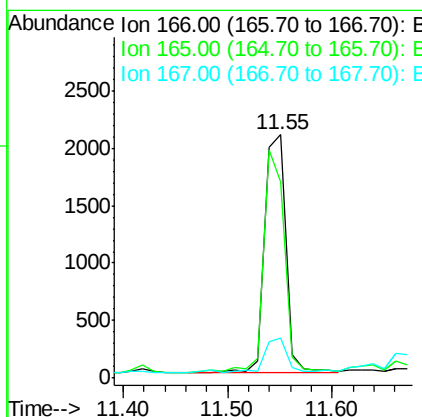
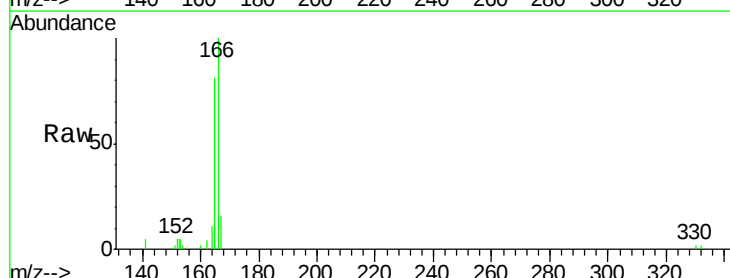
RT: 11.55 min Scan# 2178

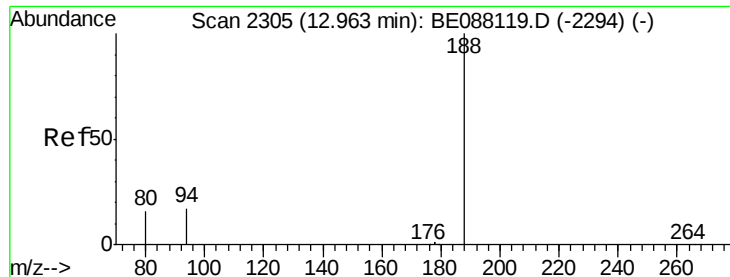
Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:	166	Resp:	2925
Ion Ratio	Lower	Upper	
166	100		
165	90.8	71.4	107.2
167	14.2	10.6	16.0





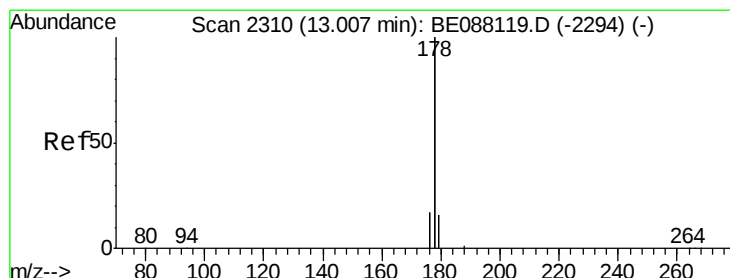
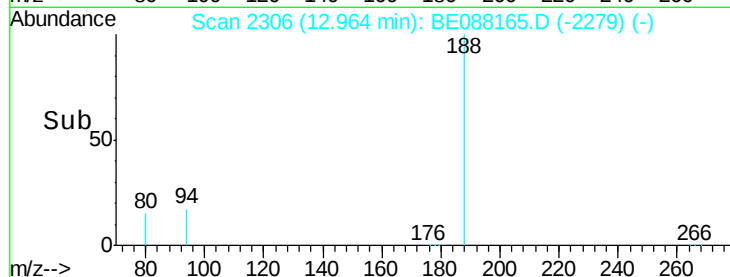
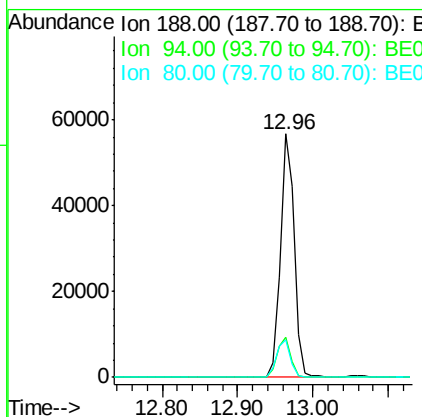
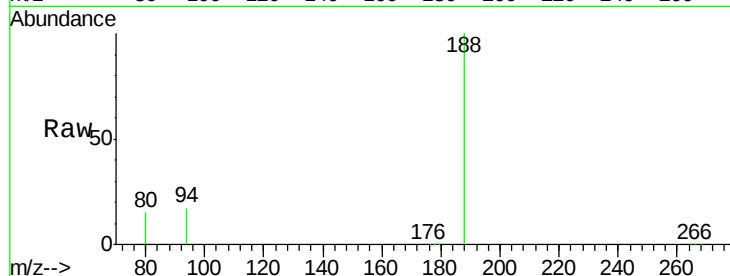
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088165.D
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	16.6	13.9	20.9
80	15.5	12.9	19.3

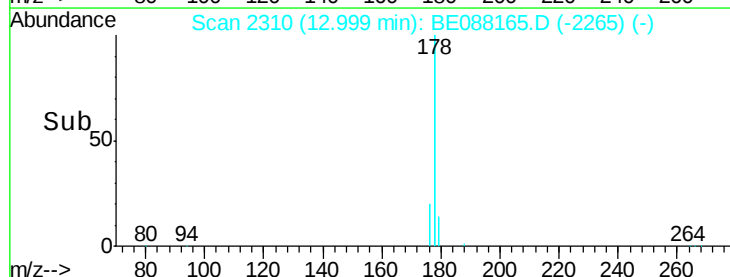
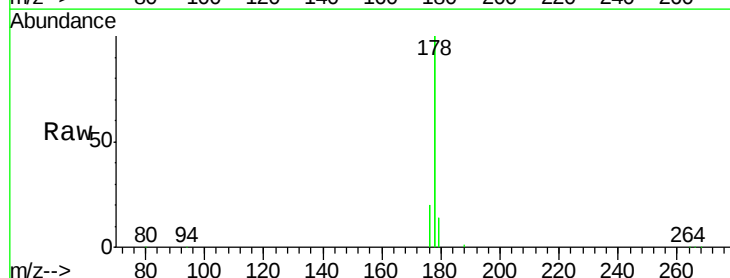
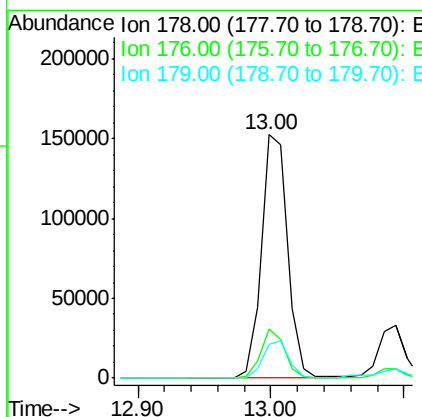
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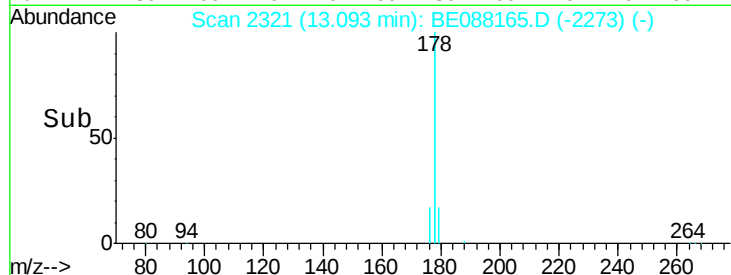
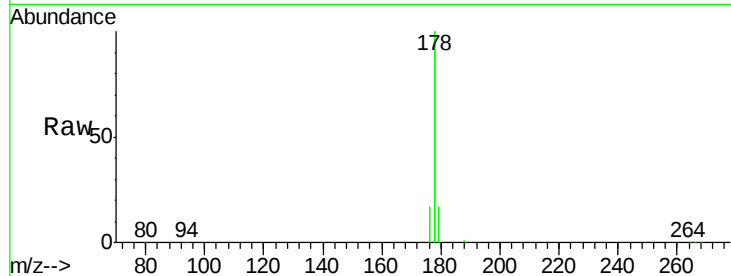
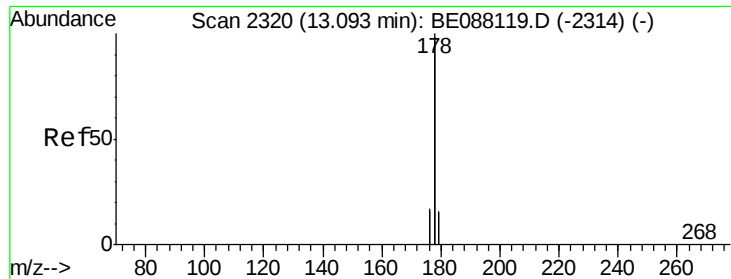
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#13
Phenanthrene
Concen: 3.10 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.5	12.5	18.7
179	15.4	13.5	20.3





#14

Anthracene

Concen: 0.69 ng m

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:	178	Resp:	47407
Ion Ratio	Lower	Upper	
178	100		
176	80.6	14.6	21.8#
179	67.1	12.5	18.7#

Instrument :

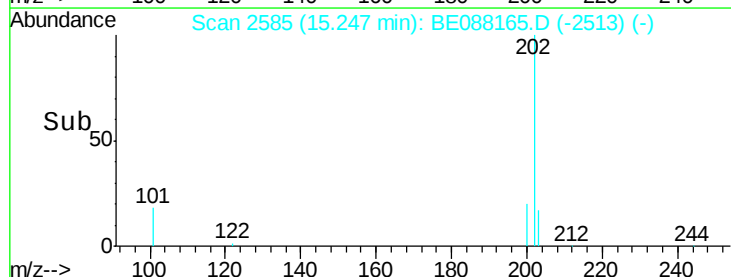
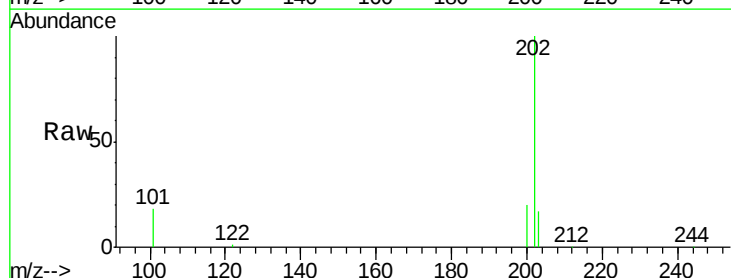
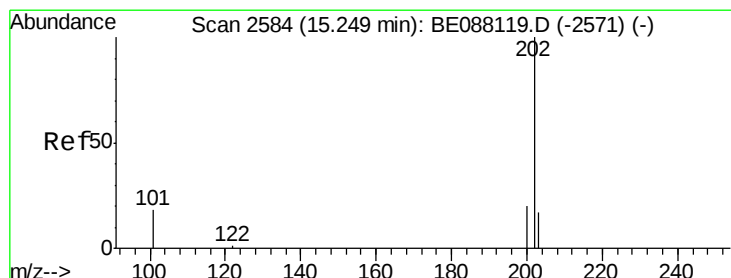
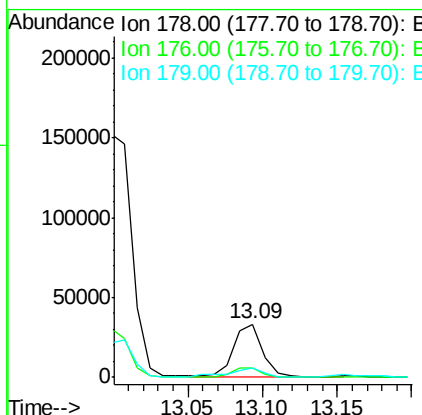
BNA_E

ClientSampleId :

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#15

Fluoranthene

Concen: 4.03 ng

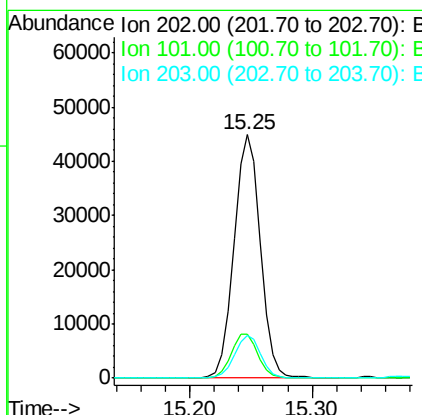
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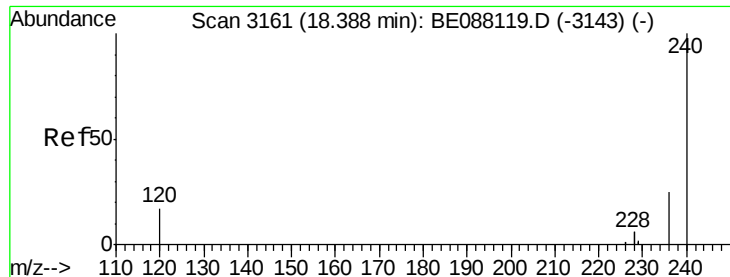
Delta R.T. -0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:	202	Resp:	67367
Ion Ratio	Lower	Upper	
202	100		
101	18.3	14.8	22.2
203	17.2	13.5	20.3





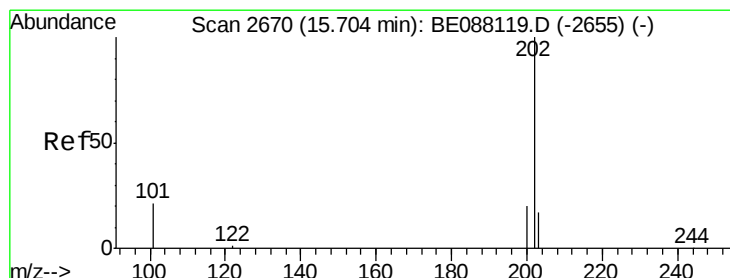
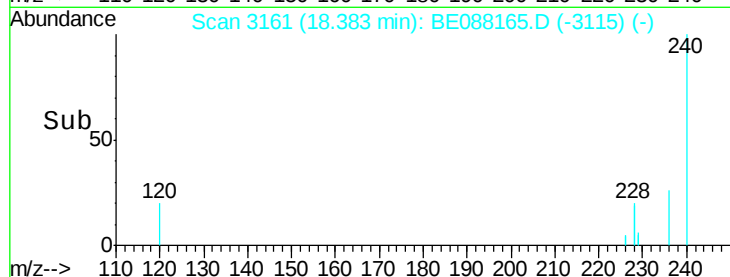
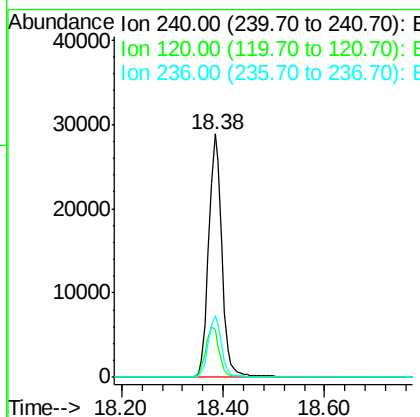
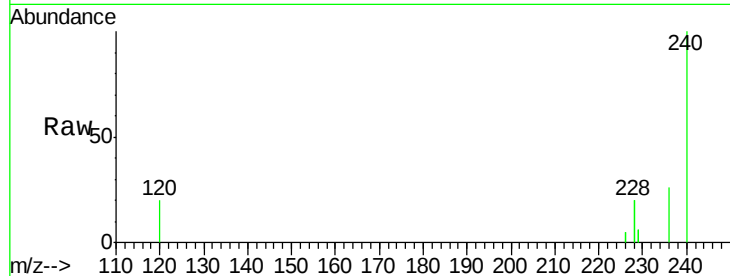
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	50860		
120	19.9	13.9	20.9	
236	25.7	19.9	29.9	

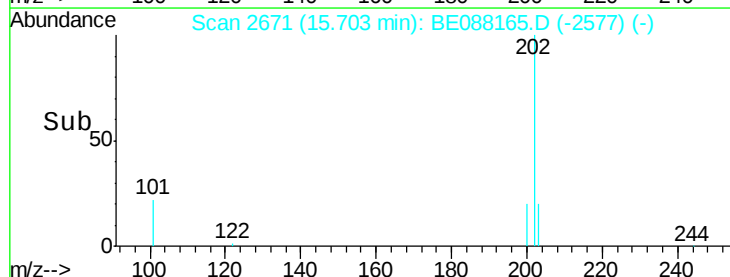
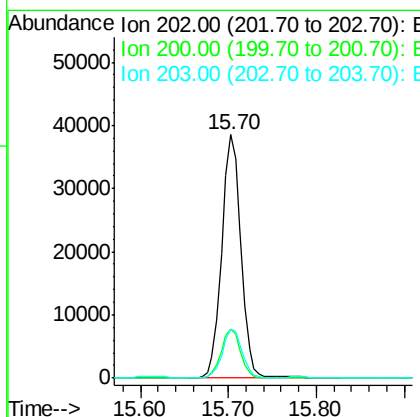
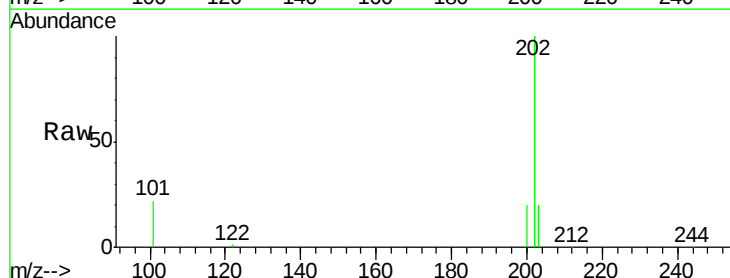
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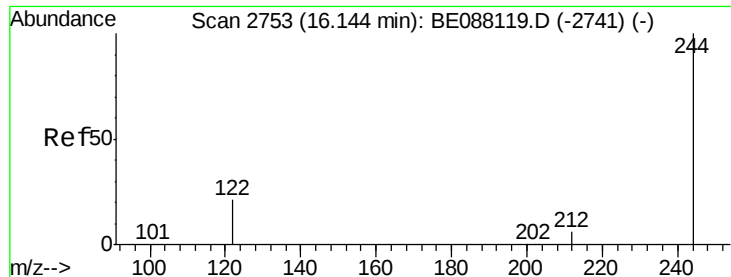
mohammad
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#17
Pyrene
Concen: 4.17 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	57695		
200	20.3	16.1	24.1	
203	20.2	13.9	20.9	





#18

Terphenyl-d14

Concen: 11.09 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088165.D

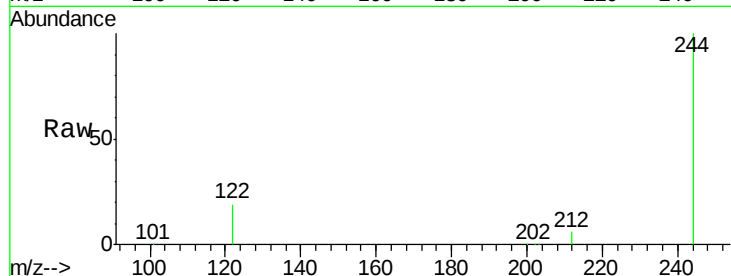
Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

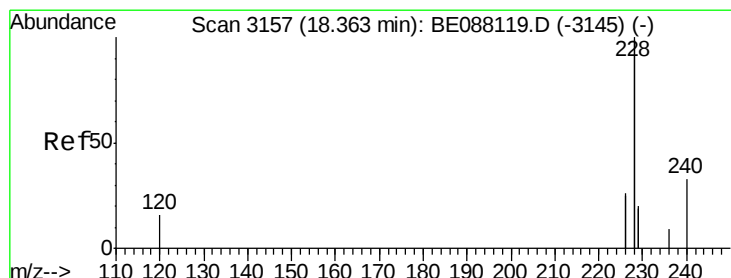
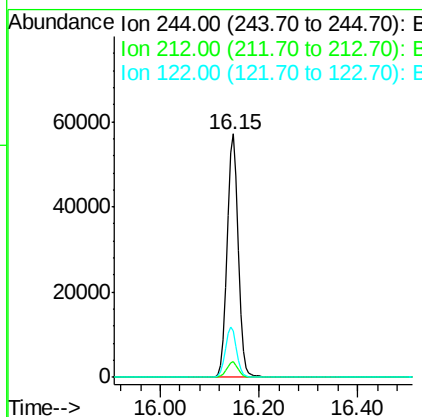
YS19-SS04-1014DL



Tgt Ion:	244	Resp:	90770
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.0
122	19.1	17.5	26.3

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#19

Benzo(a)anthracene

Concen: 1.90 ng

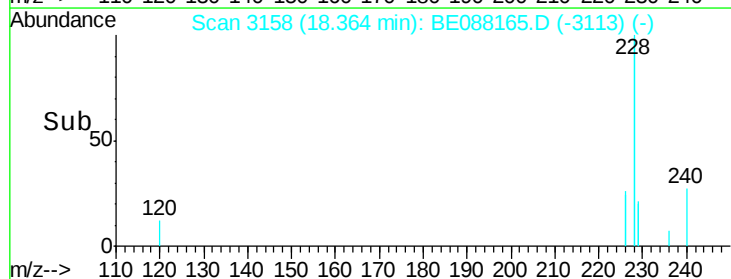
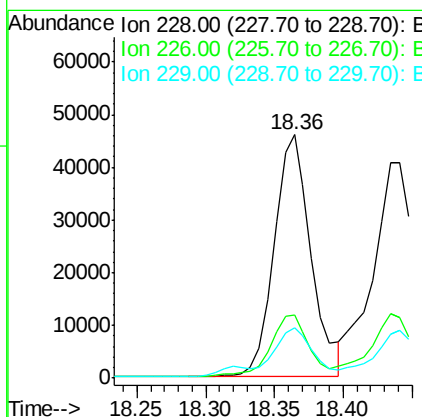
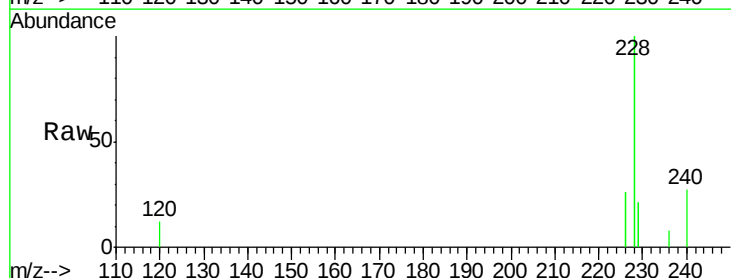
RT: 18.36 min Scan# 3158

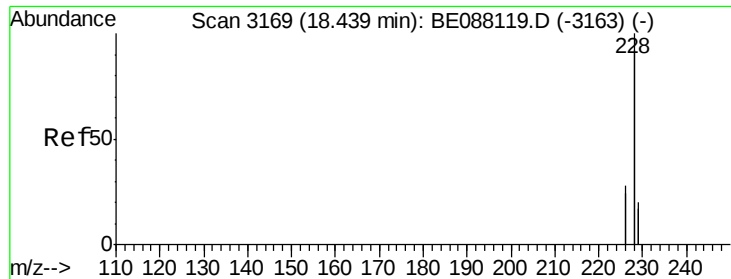
Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

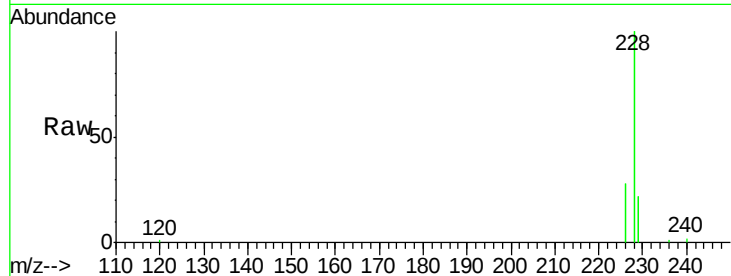
Tgt Ion:	228	Resp:	85978
Ion Ratio	Lower	Upper	
228	100		
226	25.7	20.8	31.2
229	20.8	15.6	23.4





#20
Chrysene
Concen: 1.95 ng
RT: 18.44 min Scan# 3170
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

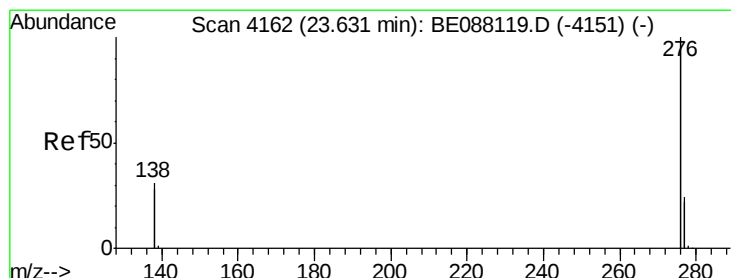
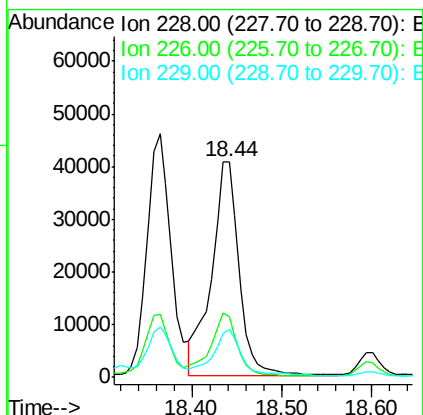
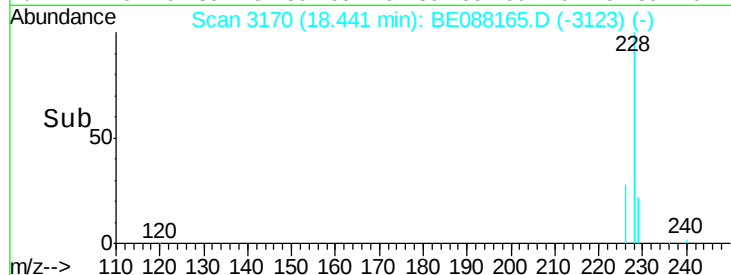
Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL



Tgt Ion: 228 Resp: 86478
Ion Ratio Lower Upper
228 100
226 27.8 22.7 34.1
229 22.3 15.8 23.6

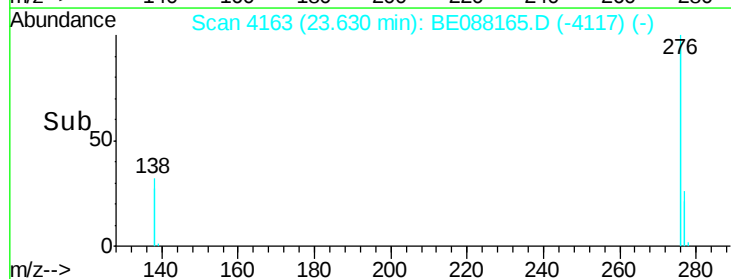
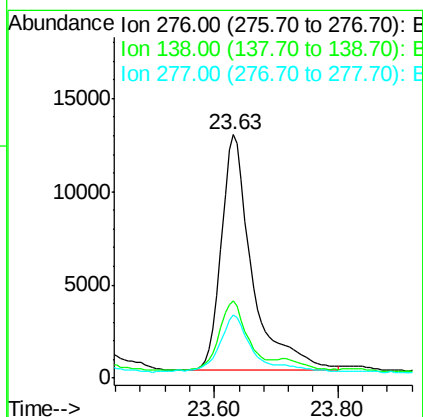
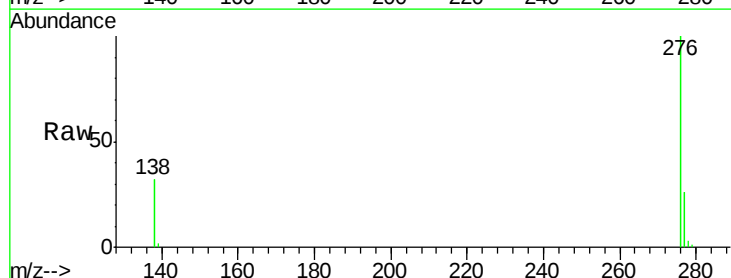
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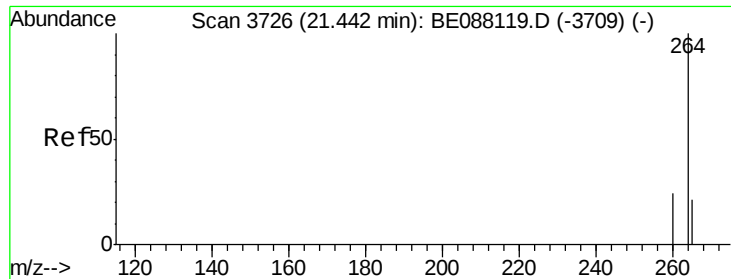
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#21
Indeno(1,2,3-cd)pyrene
Concen: 0.89 ng
RT: 23.63 min Scan# 4163
Delta R.T. -0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion: 276 Resp: 43790
Ion Ratio Lower Upper
276 100
138 27.1 18.5 27.7
277 26.7 14.6 21.8#





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088165.D

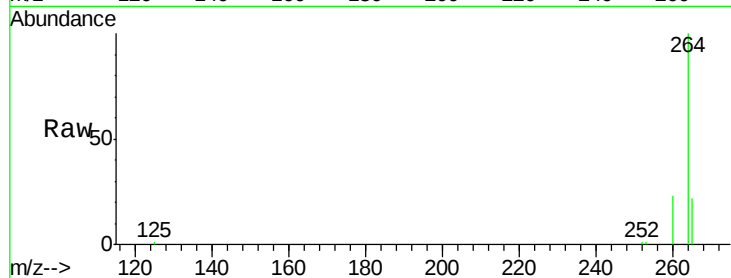
Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

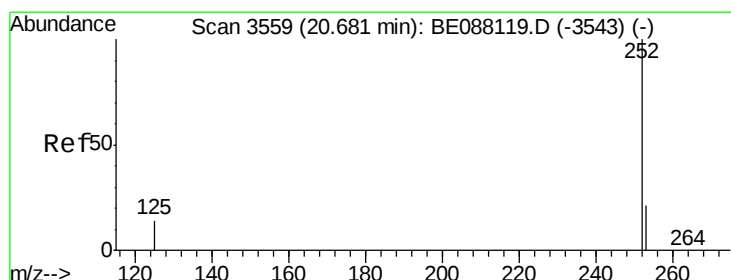
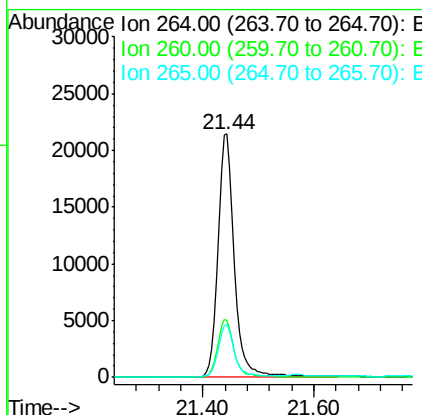
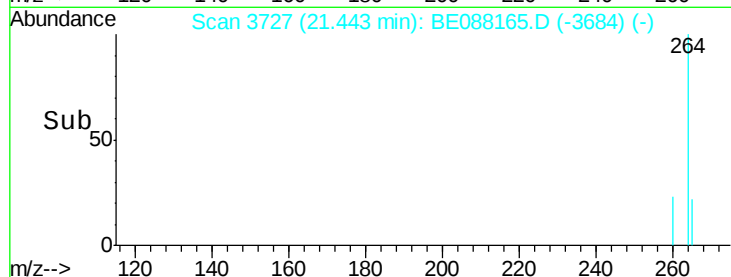
YS19-SS04-1014DL



Tgt Ion:	264	Resp:	42932
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.0	28.4
265	22.0	17.2	25.8

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#23

Benzo(b)fluoranthene

Concen: 2.08 ng

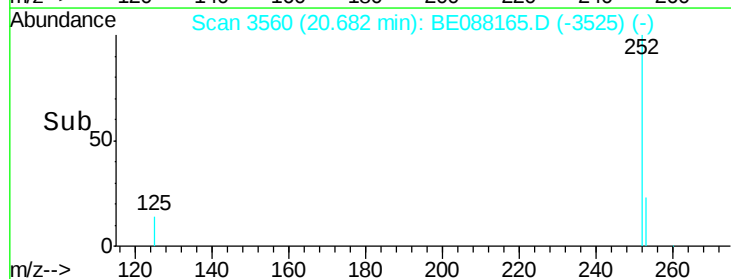
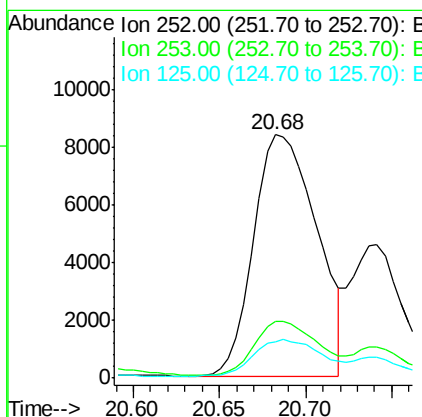
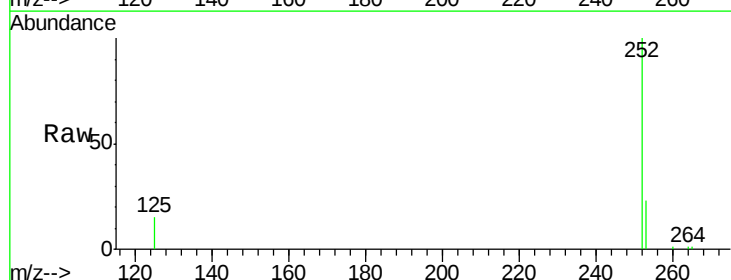
RT: 20.68 min Scan# 3560

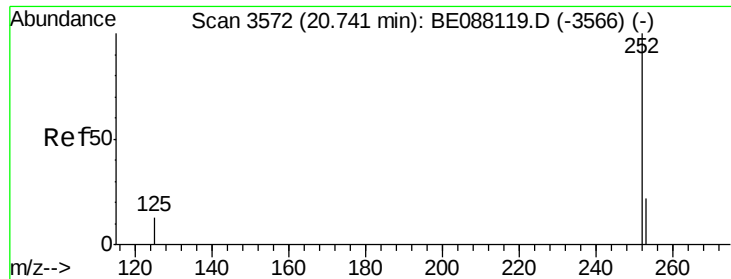
Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:	252	Resp:	21226
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.0
125	15.1	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 0.86 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088165.D

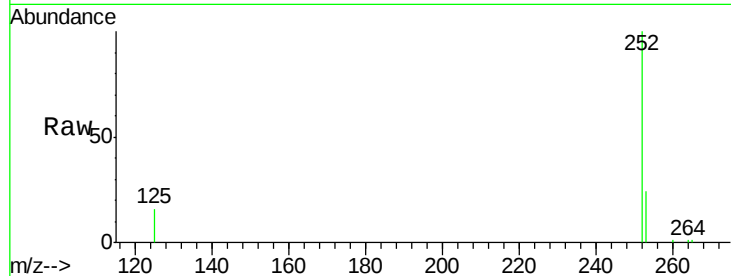
Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

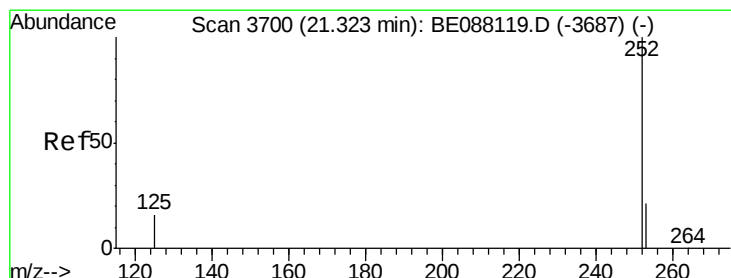
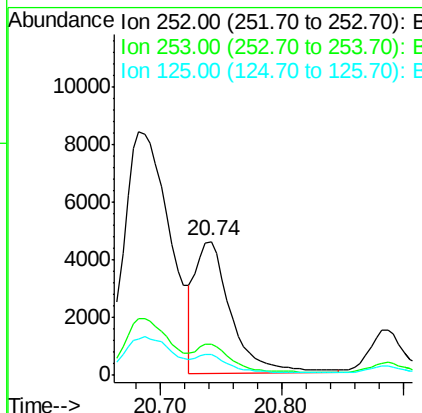
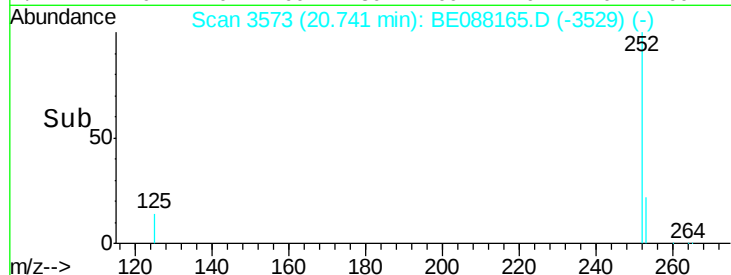
YS19-SS04-1014DL



Tgt Ion:	252	Resp:	9388
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.6	26.4
125	15.6	11.5	17.3

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#25

Benzo(a)pyrene

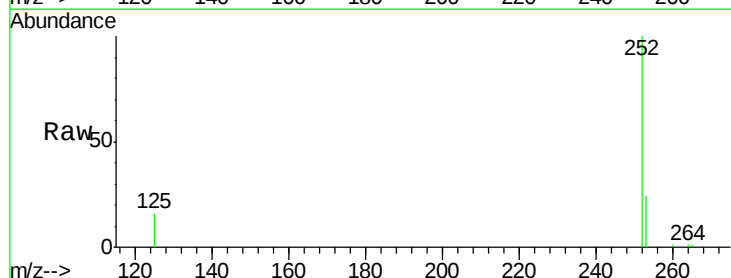
Concen: 1.65 ng

RT: 21.32 min Scan# 3701

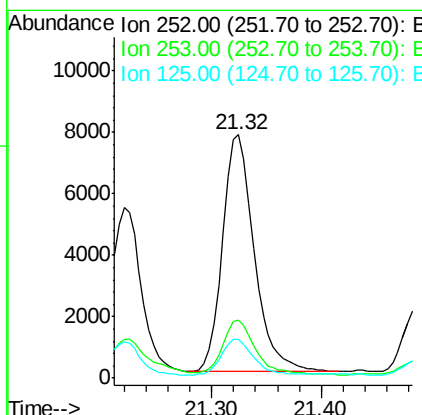
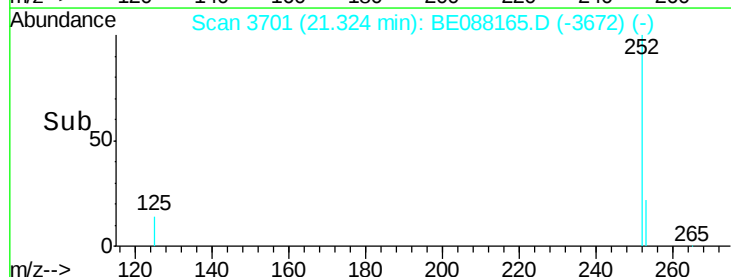
Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14



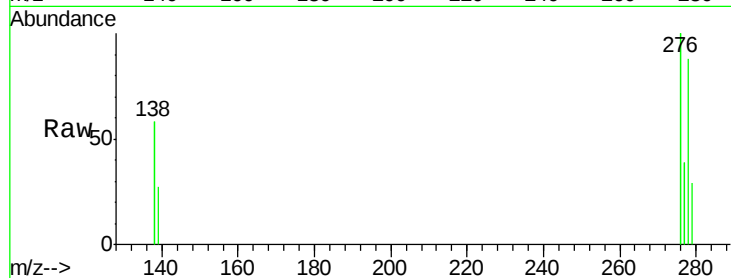
Tgt Ion:	252	Resp:	15528
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.5	26.3
125	15.9	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.23 ng
RT: 23.72 min Scan# 4177
Delta R.T. -0.01 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

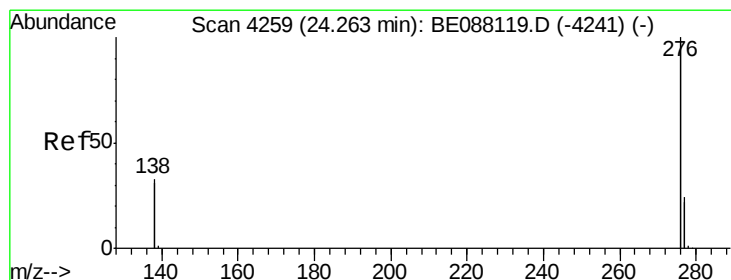
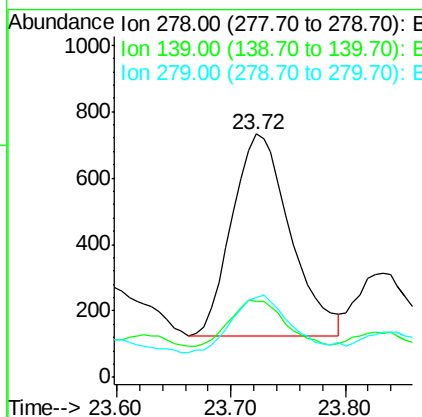
Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL



Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.0	20.9	31.3
279	33.0	19.8	29.8

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#27
Benzo(g,h,i)perylene
Concen: 1.08 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.2	28.8
138	33.6	26.6	40.0

