

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088162.D
 Acq On : 22 Oct 2014 3:32
 Operator : TP/JJ
 Sample : F4303-12DL 10X
 Misc : 1.5 TIME INT STD
 ALS Vial : 20 Sample Multiplier: 1.5

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

Manual Integrations
 APPROVED

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Quant Time: Oct 22 04:33:59 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	22361	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	88197	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	47555	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	75371	5.00	ng	0.00
16) Chrysene-d12	18.38	240	52833	5.00	ng	0.00
22) Perylene-d12	21.44	264	42444	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	55517	13.10	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	88692	10.13	ng	0.00
18) Terphenyl-d14	16.15	244	66774	11.78	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	2766	0.23	ng	97
6) 2-Methylnaphthalene	9.57	142	1046	0.14	ng	96
9) Acenaphthylene	10.67	152	4330	0.09	ng	# 76
10) Acenaphthene	10.88	154	4818	0.65	ng	97
11) Fluorene	11.55	166	5669	0.72	ng	99
13) Phenanthrene	13.01	178	308843	8.38	ng	95
14) Anthracene	13.09	178	79818m	2.04	ng	
15) Fluoranthene	15.25	202	95441	9.98	ng	99
17) Pyrene	15.70	202	78513m	8.20	ng	
19) Benzo(a)anthracene	18.36	228	122779m	3.92	ng	
20) Chrysene	18.44	228	127421	4.15	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	56948	1.67	ng	# 85
23) Benzo(b)fluoranthene	20.69	252	29080	4.32	ng	98
24) Benzo(k)fluoranthene	20.74	252	13953	1.93	ng	98
25) Benzo(a)pyrene	21.32	252	20579	3.32	ng	97
27) Benzo(g,h,i)perylene	24.26	276	55768	2.07	ng	98

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

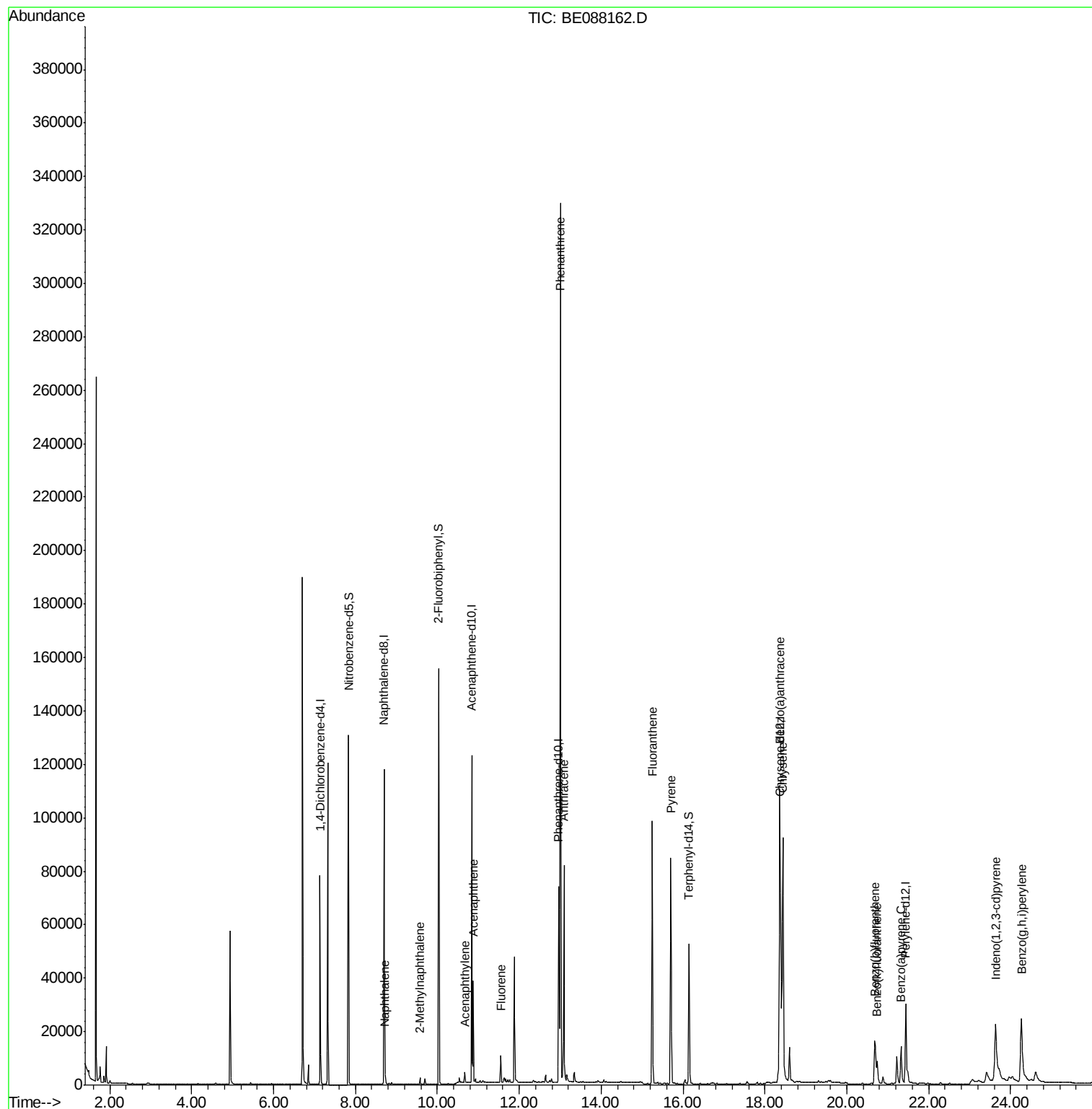
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088162.D
Acq On : 22 Oct 2014 3:32
Operator : TP/JJ
Sample : F4303-12DL 10X
Misc : 1.5 TIME INT STD
ALS Vial : 20 Sample Multiplier: 1.5

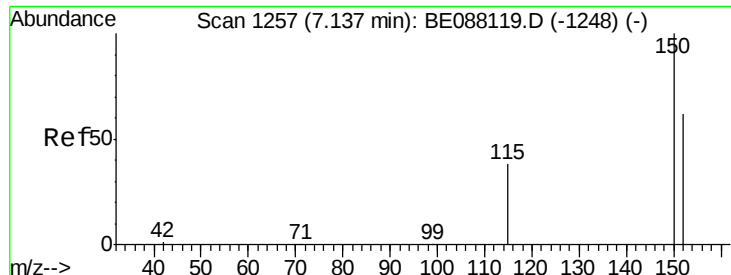
Instrument :
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YS19-SB03-1014DL

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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
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QLast Update : Tue Oct 21 02:11:14 2014
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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: BE088162.D

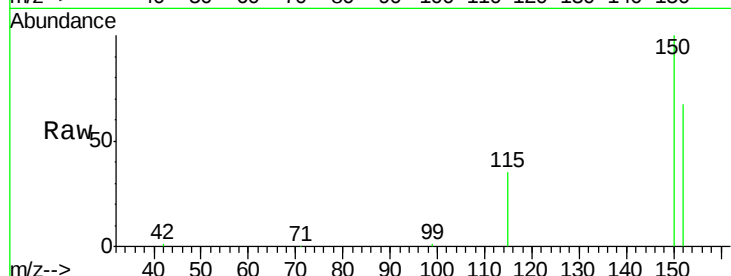
Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleID :

YS19-SB03-1014DL



Tgt Ion:152 Resp: 22361

Ion Ratio Lower Upper

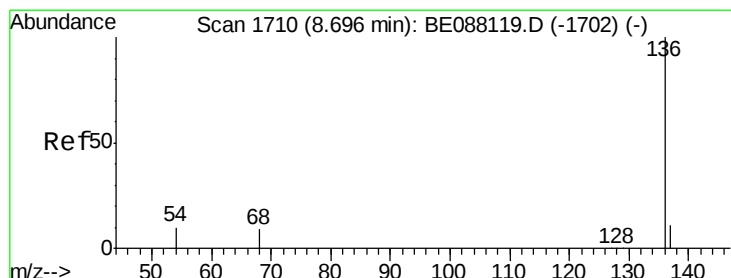
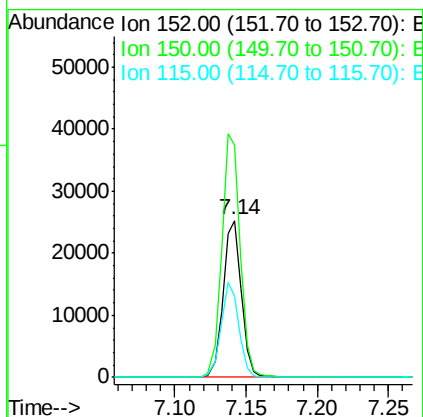
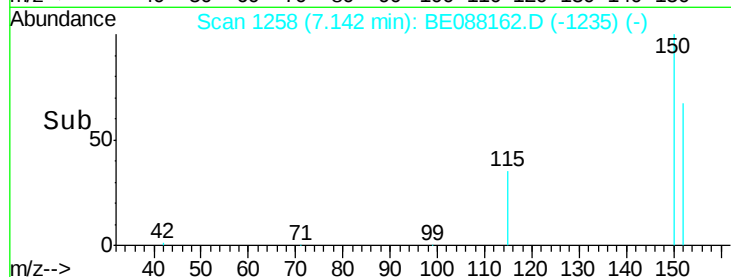
152 100

150 148.2 129.2 193.8

115 52.2 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

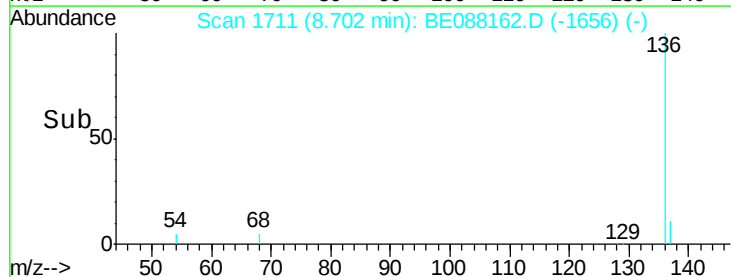
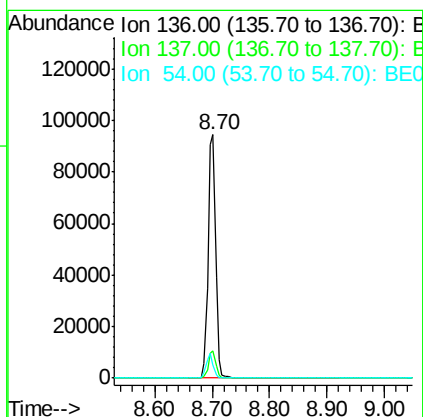
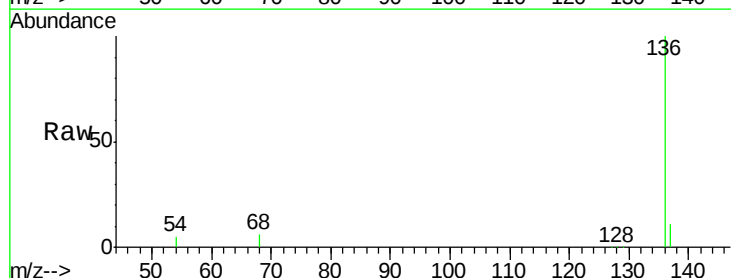
Tgt Ion:136 Resp: 88197

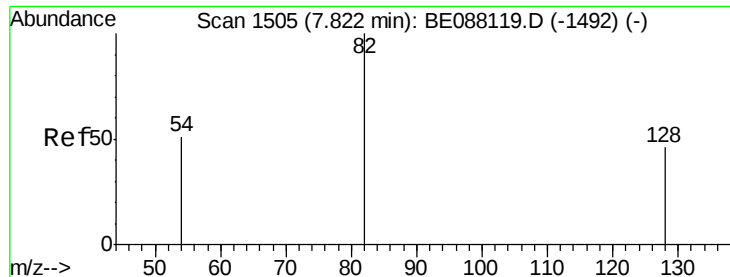
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 5.5 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 13.10 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088162.D

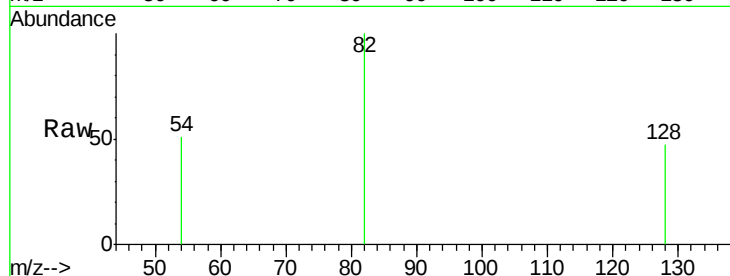
Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL



Tgt Ion: 82 Resp: 55517

Ion Ratio Lower Upper

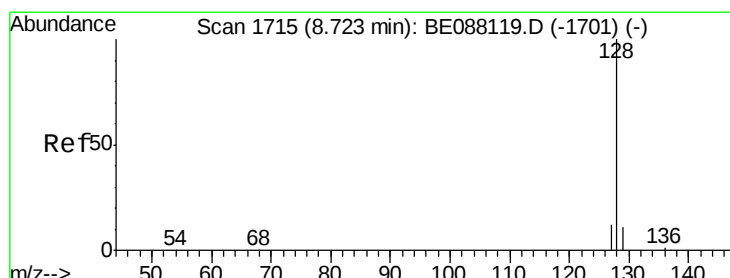
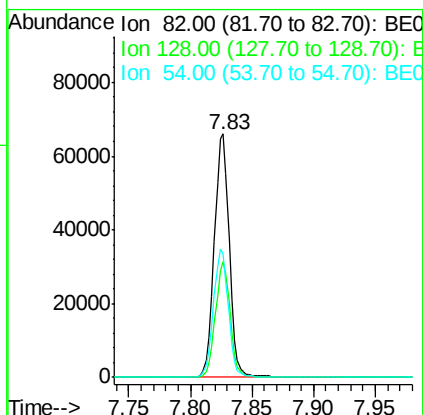
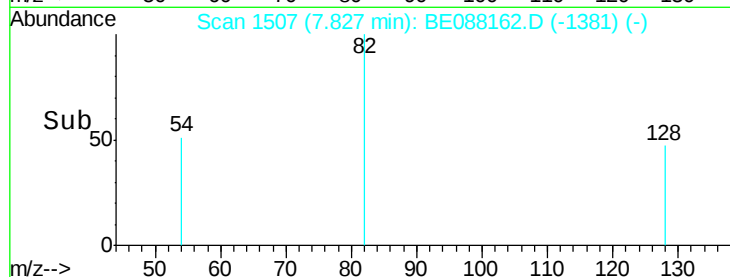
82 100

128 47.5 37.1 55.7

54 50.8 41.1 61.7

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#5

Naphthalene

Concen: 0.23 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

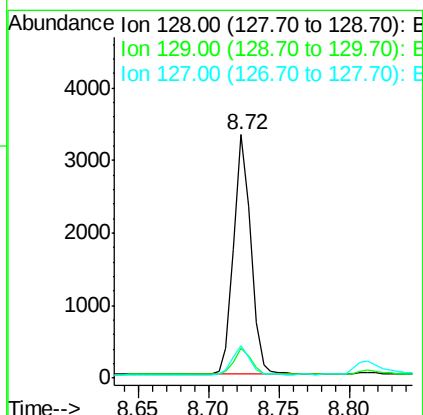
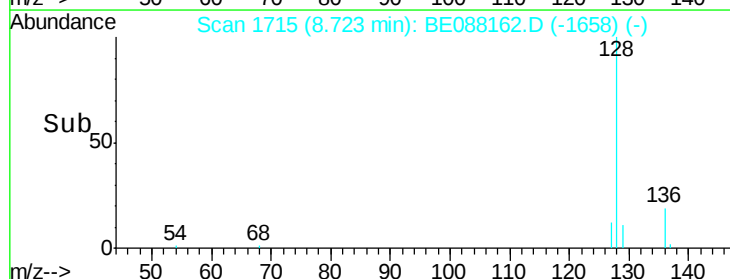
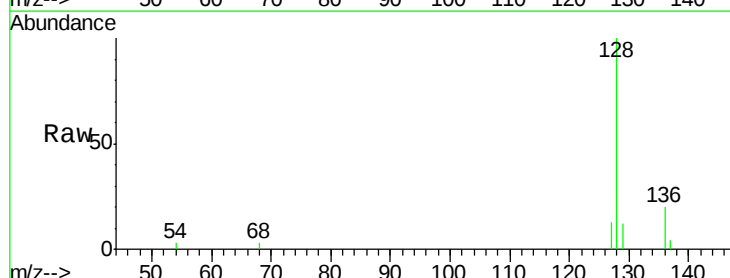
Tgt Ion: 128 Resp: 2766

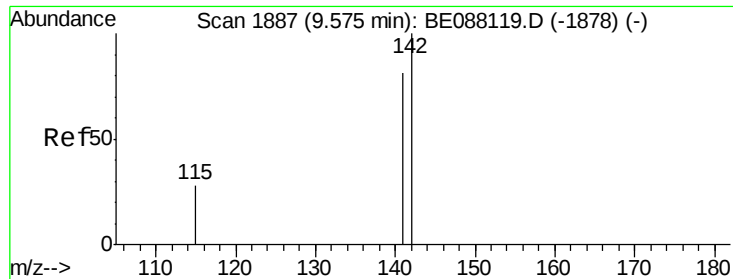
Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

127 13.3 9.7 14.5





#6

2-Methylnaphthalene

Concen: 0.14 ng

RT: 9.57 min Scan# 1887

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

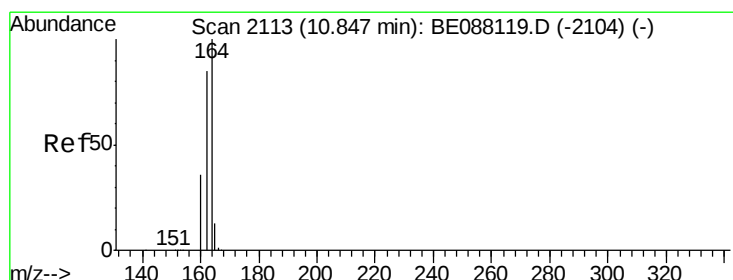
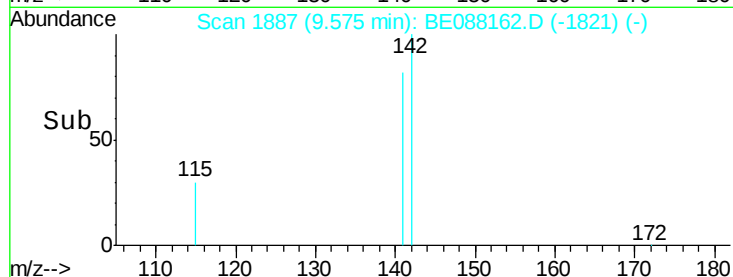
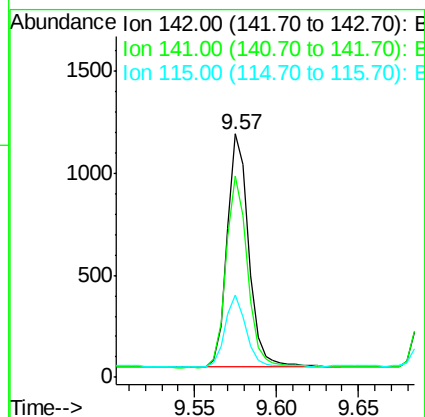
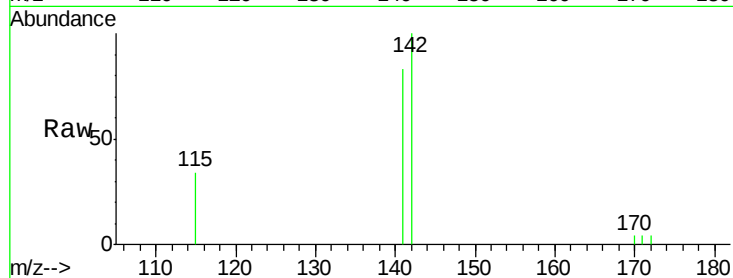
ClientSampleId :

YS19-SB03-1014DL

Tgt Ion:	142	Resp:	1046
Ion Ratio	Lower	Upper	
142	100		
141	82.7	64.6	97.0
115	33.8	22.6	34.0

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#7

Acenaphthene-d10

Concen: 5.00 ng

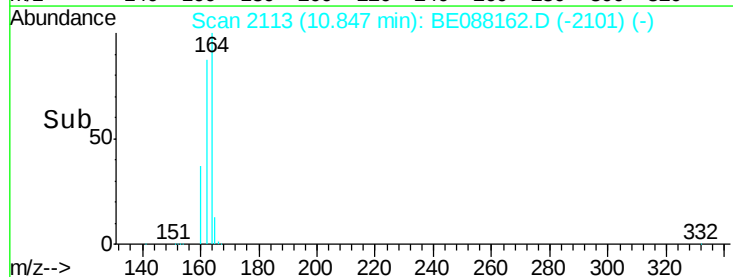
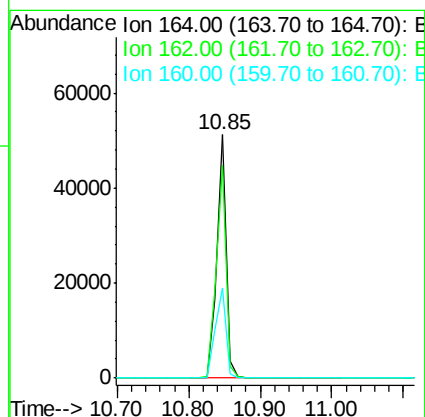
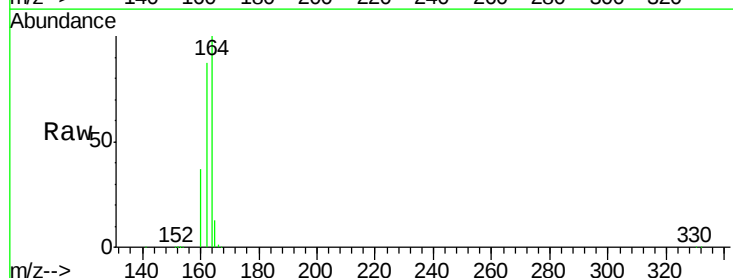
RT: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Tgt Ion:	164	Resp:	47555
Ion Ratio	Lower	Upper	
164	100		
162	87.4	68.3	102.5
160	37.2	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 10.13 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

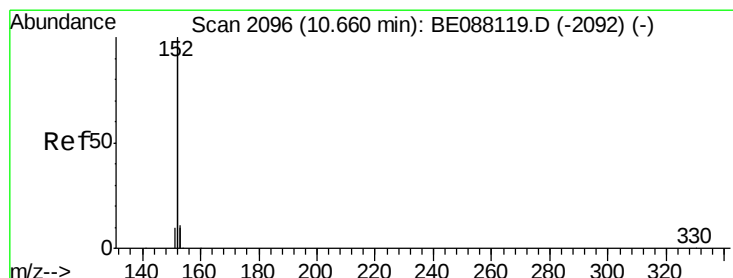
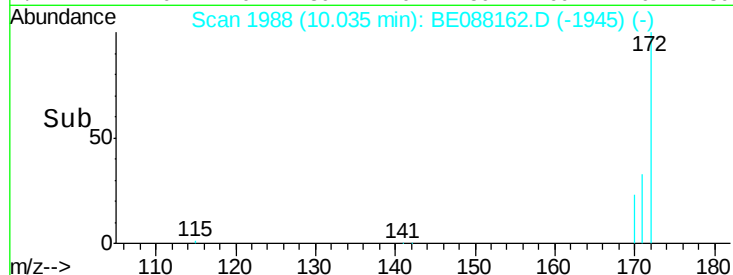
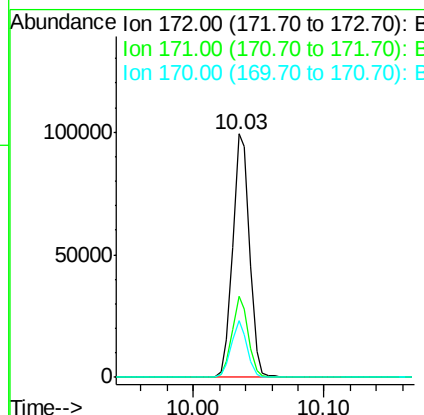
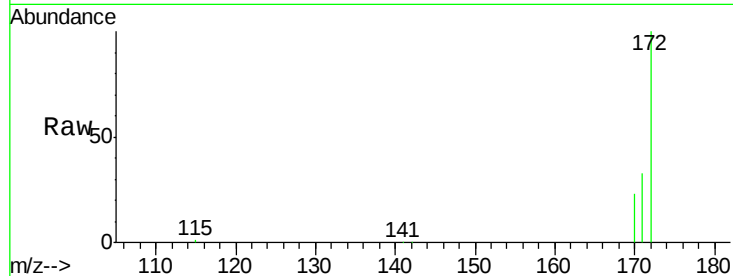
ClientSampleId :

YS19-SB03-1014DL

Tgt Ion:	172	Resp:	88692
Ion Ratio	Lower	Upper	
172	100		
171	33.1	25.4	38.2
170	23.2	17.4	26.2

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#9

Acenaphthylene

Concen: 0.09 ng

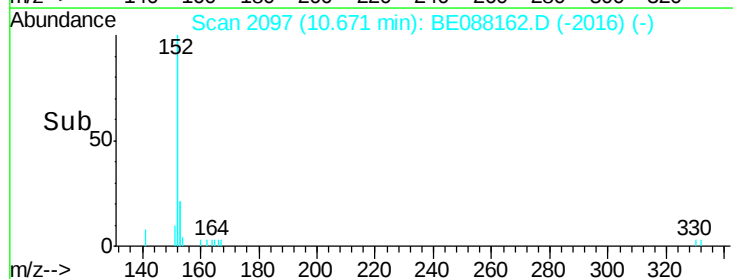
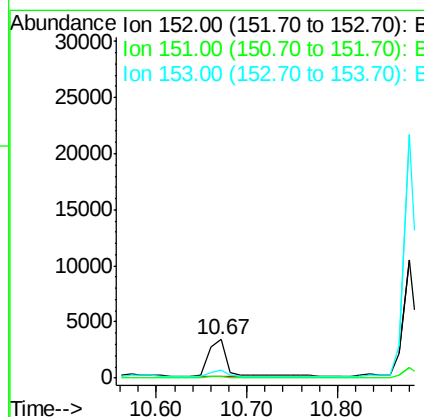
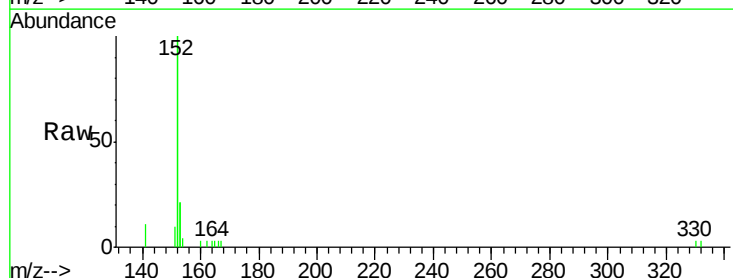
RT: 10.67 min Scan# 2097

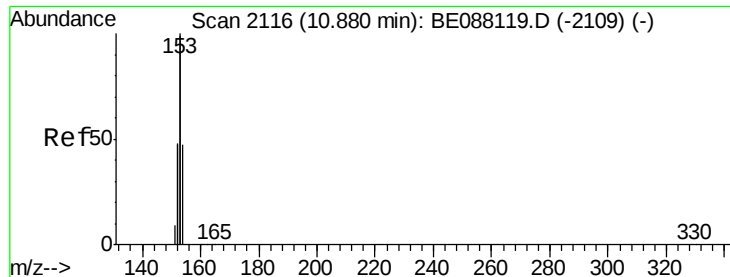
Delta R.T. 0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Tgt Ion:	152	Resp:	4330
Ion Ratio	Lower	Upper	
152	100		
151	4.5	3.7	5.5
153	0.0	10.4	15.6#





#10

Acenaphthene

Concen: 0.65 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088162.D

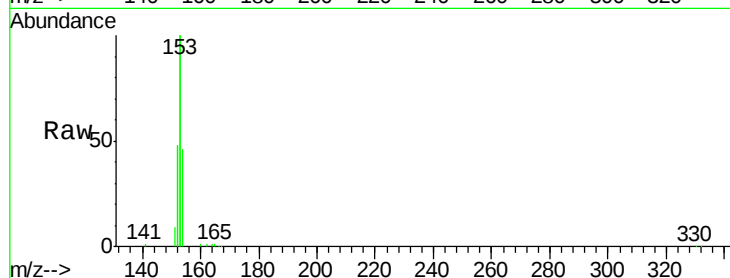
Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

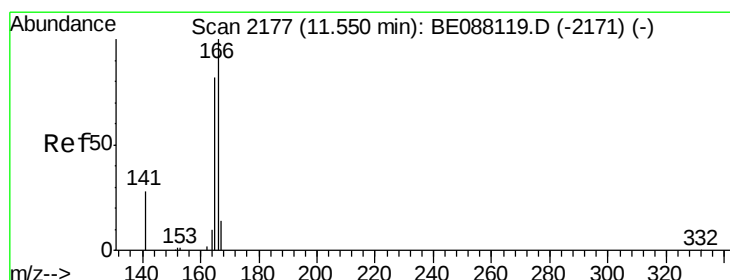
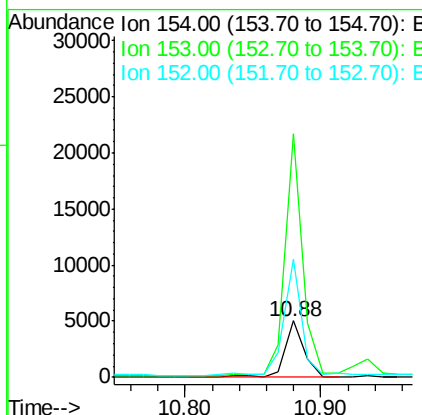
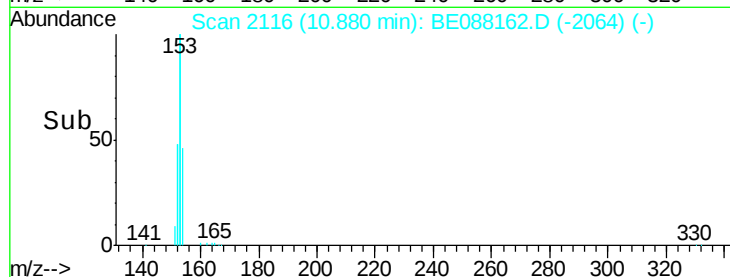
YS19-SB03-1014DL



Tgt Ion	Ratio	Lower	Upper
154	100		
153	402.7	327.8	491.6
152	199.9	157.6	236.4

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#11

Fluorene

Concen: 0.72 ng

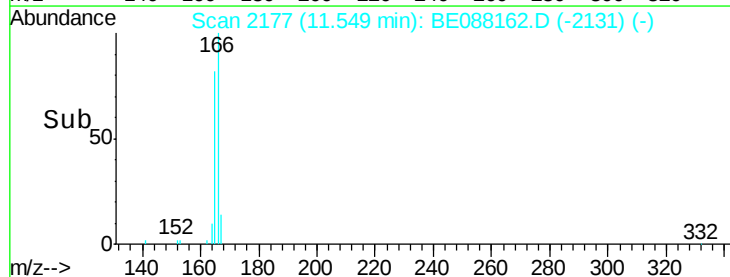
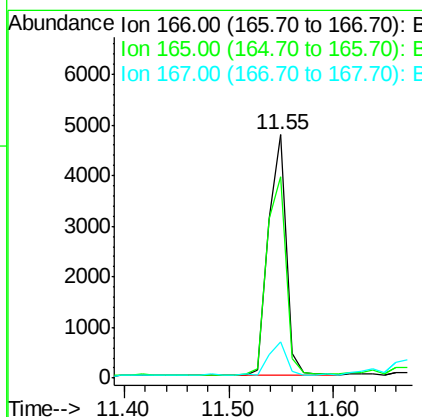
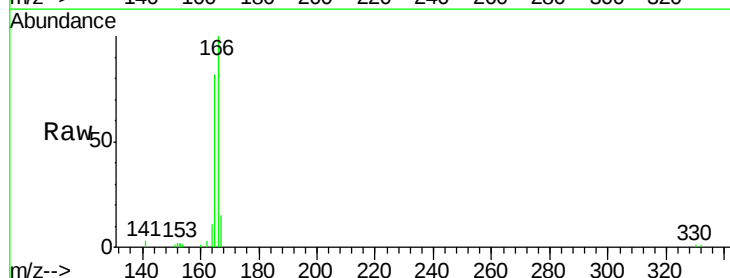
RT: 11.55 min Scan# 2177

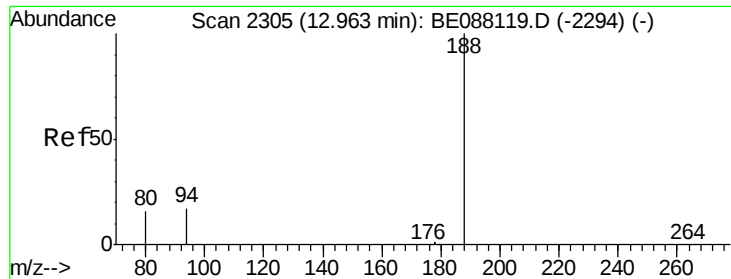
Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.0	71.4	107.2
167	14.1	10.6	16.0





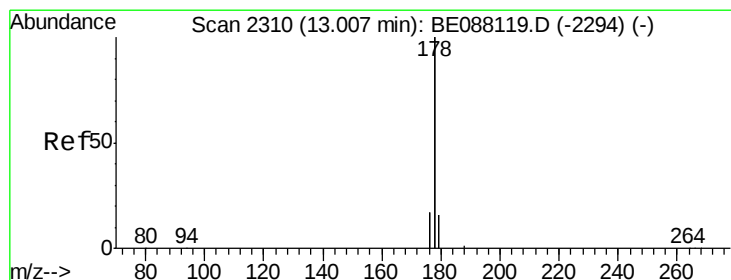
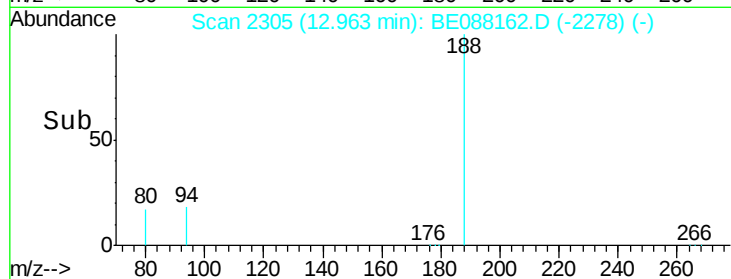
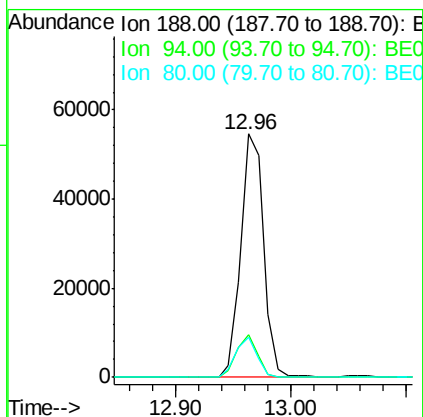
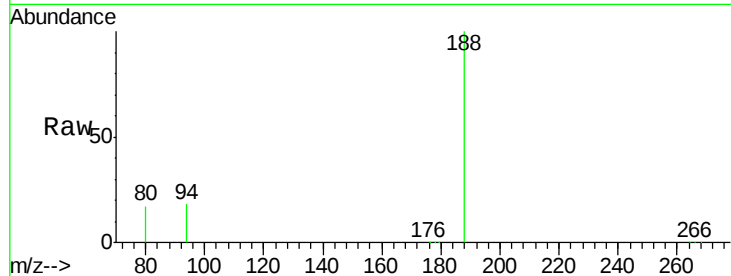
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

Instrument :
BNA_E
ClientSampleId :
YS19-SB03-1014DL

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.7	13.9	20.9
80	16.7	12.9	19.3

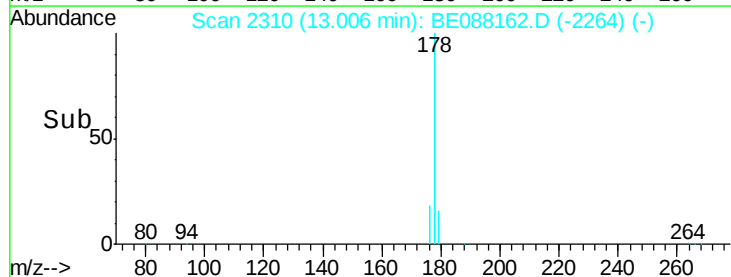
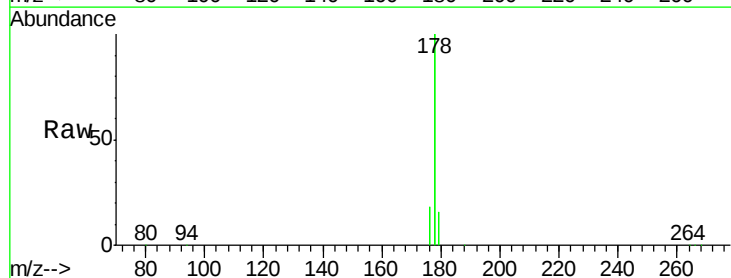
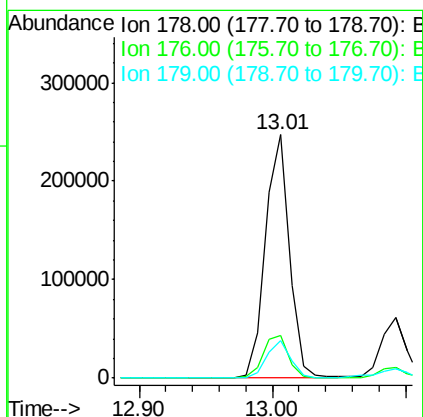
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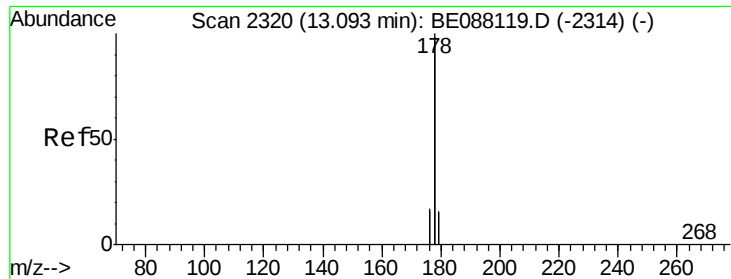
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#13
Phenanthrene
Concen: 8.38 ng
RT: 13.01 min Scan# 2310
Delta R.T. 0.00 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	12.5	18.7
179	15.3	13.5	20.3





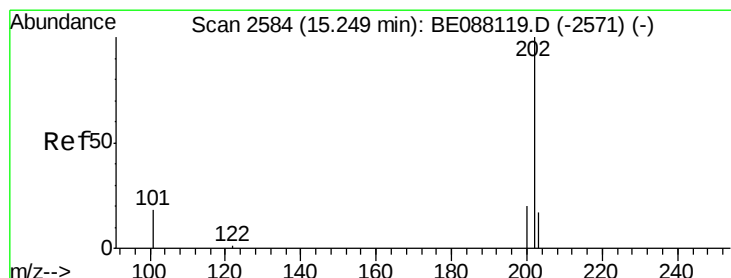
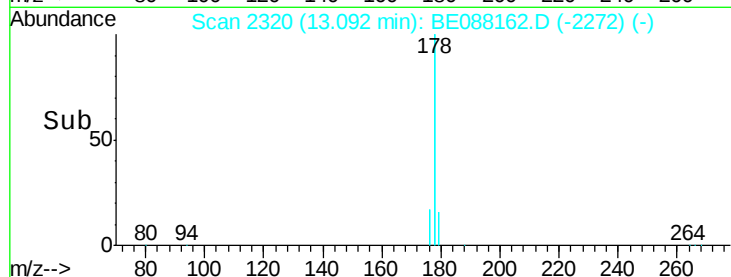
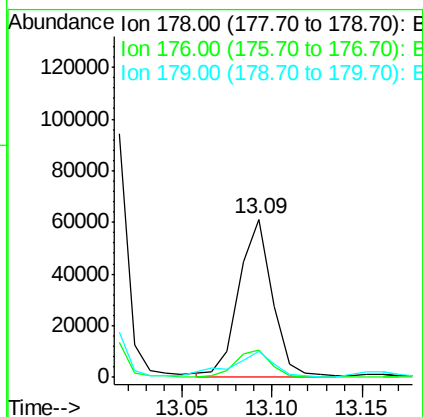
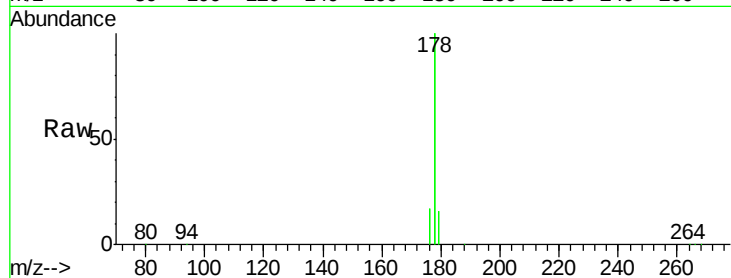
#14
 Anthracene
 Concen: 2.04 ng m
 RT: 13.09 min Scan# 2320
 Delta R.T. -0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	71.8	14.6	21.8#
179	59.0	12.5	18.7#

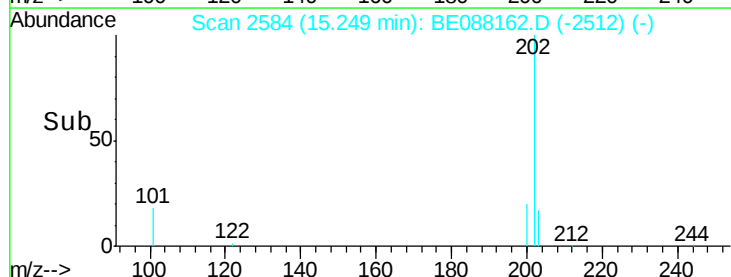
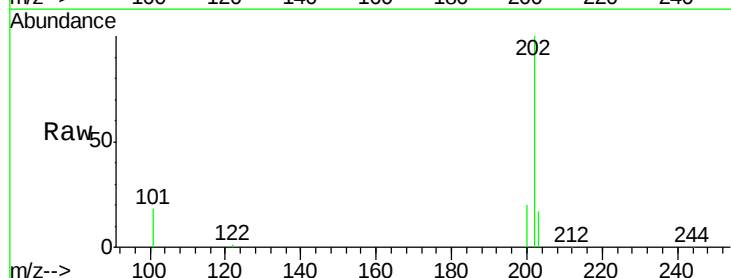
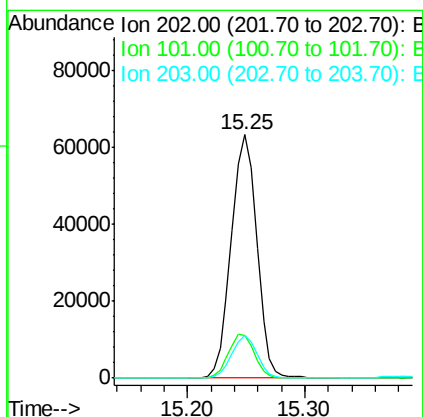
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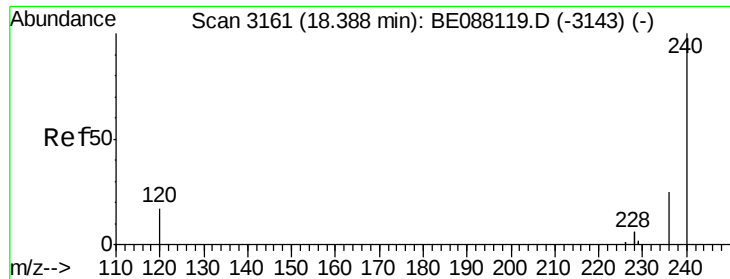
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#15
 Fluoranthene
 Concen: 9.98 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. 0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

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





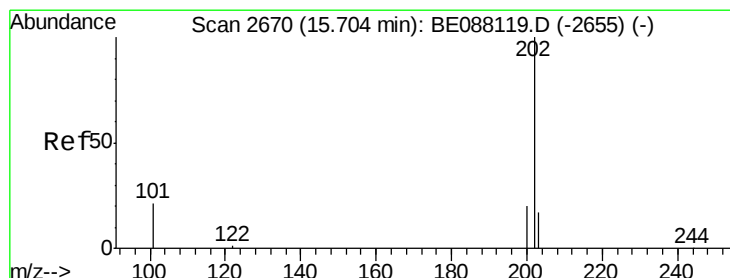
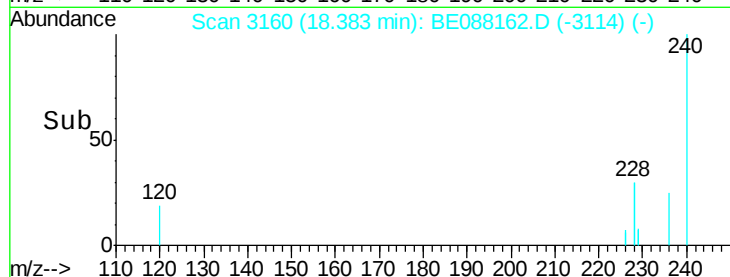
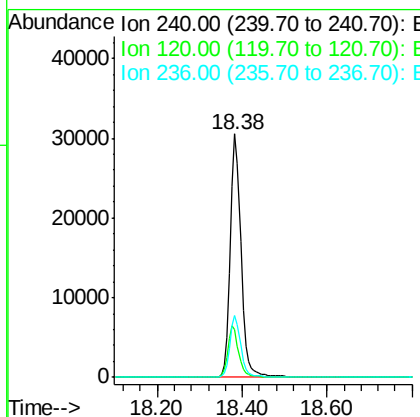
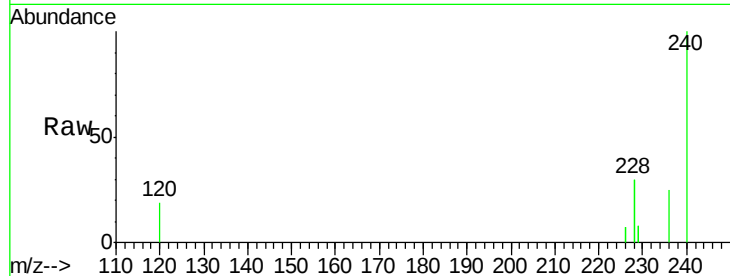
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3160
Delta R.T. -0.01 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

Instrument :
BNA_E
ClientSampleId :
YS19-SB03-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	19.5	13.9	20.9
236	25.5	19.9	29.9

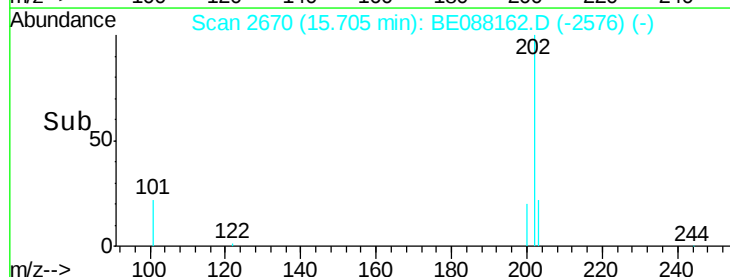
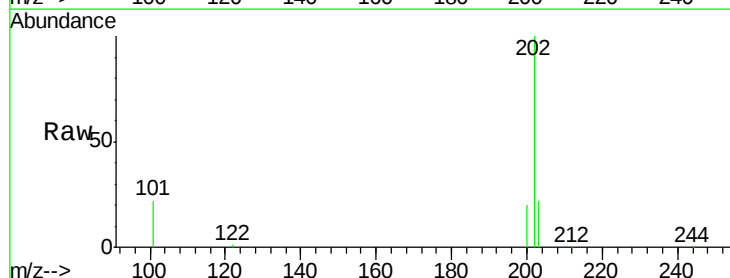
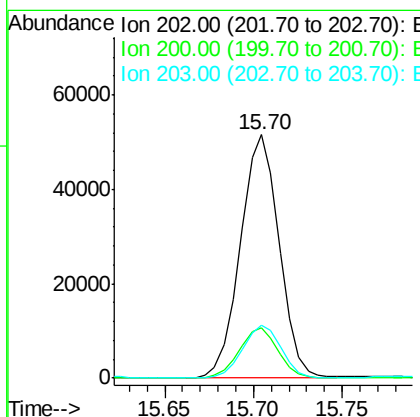
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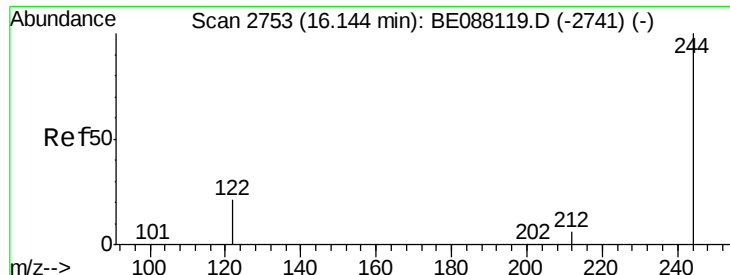
mohammad
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#17
Pyrene
Concen: 8.20 ng m
RT: 15.70 min Scan# 2670
Delta R.T. 0.00 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	24.3	16.1	24.1#
203	20.9	13.9	20.9





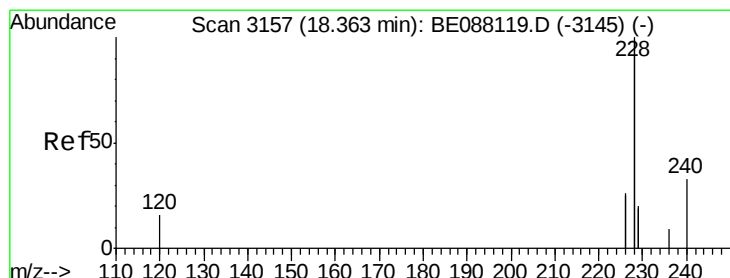
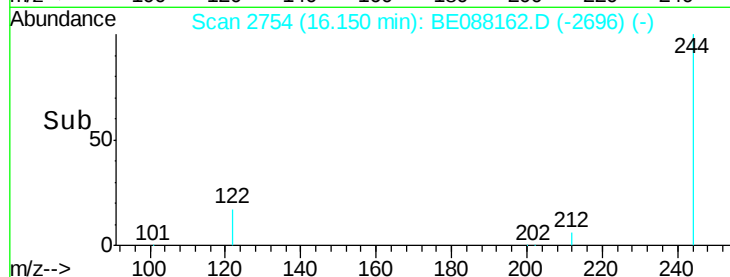
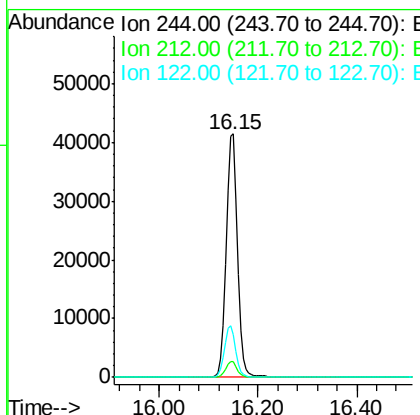
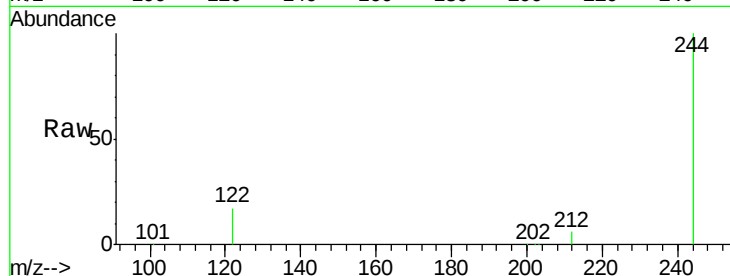
#18
 Terphenyl-d14
 Concen: 11.78 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.01 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.3	5.4	8.0
122	17.4	17.5	26.3

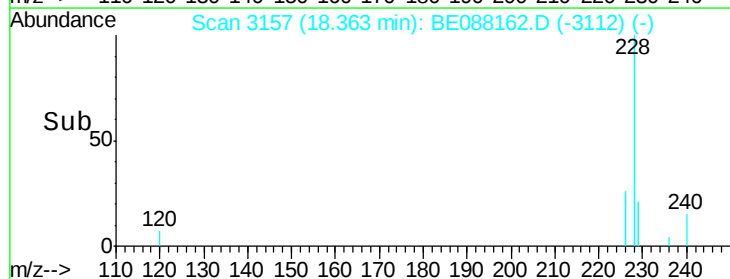
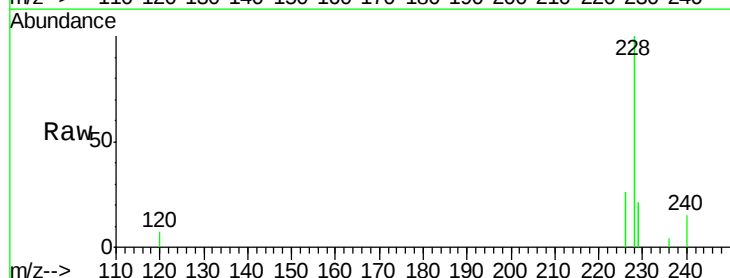
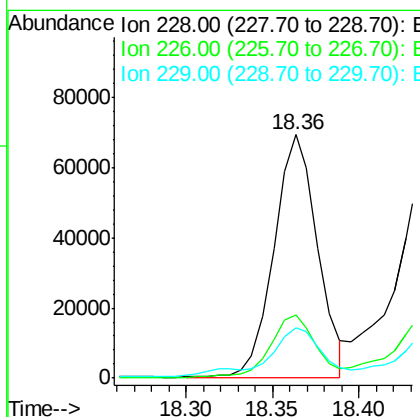
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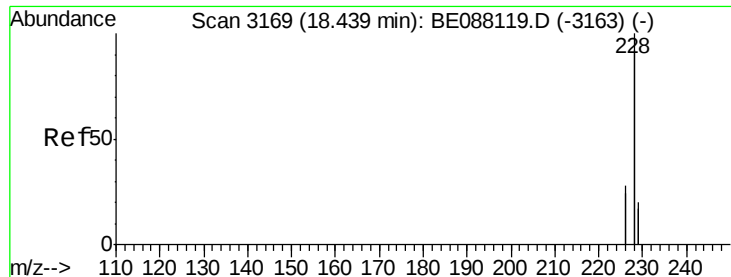
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#19
 Benzo(a)anthracene
 Concen: 3.92 ng m
 RT: 18.36 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	25.9	20.8	31.2
229	20.6	15.6	23.4





#20

Chrysene

Concen: 4.15 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088162.D

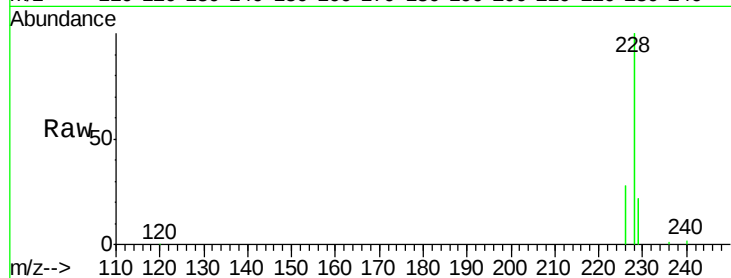
Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

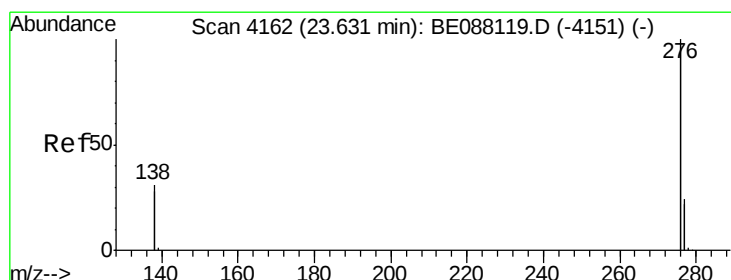
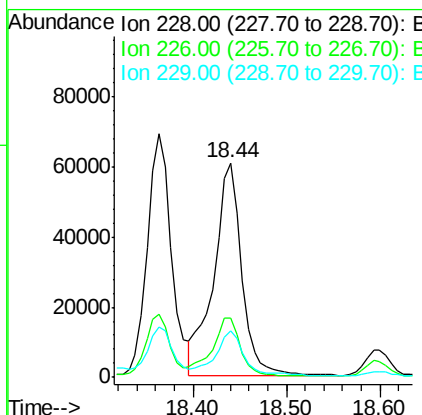
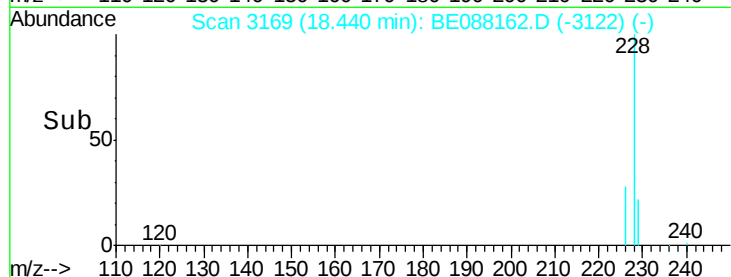
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Tgt Ion:	228	Resp:	127421
Ion Ratio	Lower	Upper	
228	100		
226	27.9	22.7	34.1
229	21.8	15.8	23.6

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#21

Indeno(1,2,3-cd)pyrene

Concen: 1.67 ng

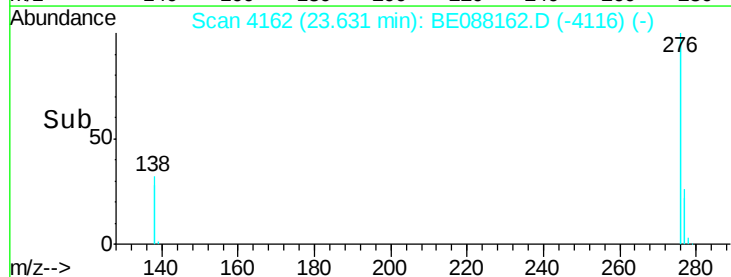
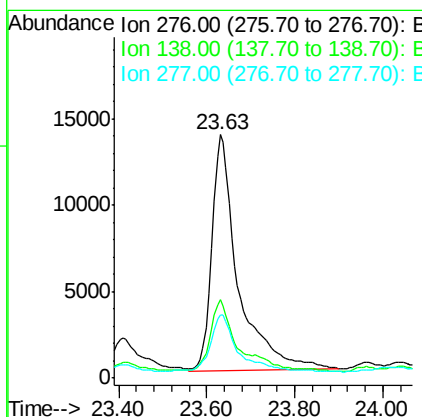
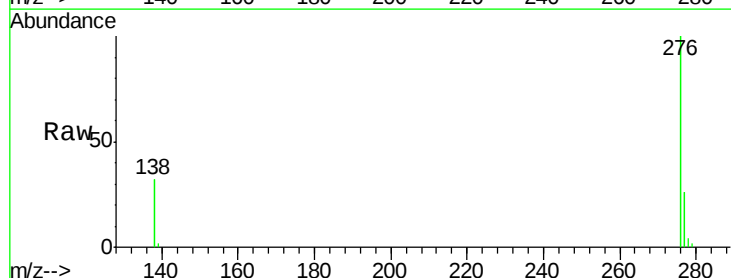
RT: 23.63 min Scan# 4162

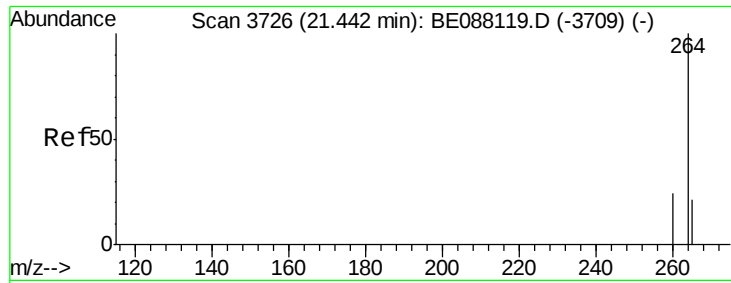
Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

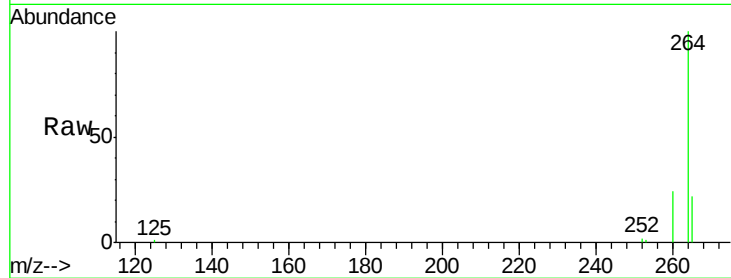
Tgt Ion:	276	Resp:	56948
Ion Ratio	Lower	Upper	
276	100		
138	29.6	18.5	27.7#
277	26.1	14.6	21.8#





#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3725
 Delta R.T. -0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

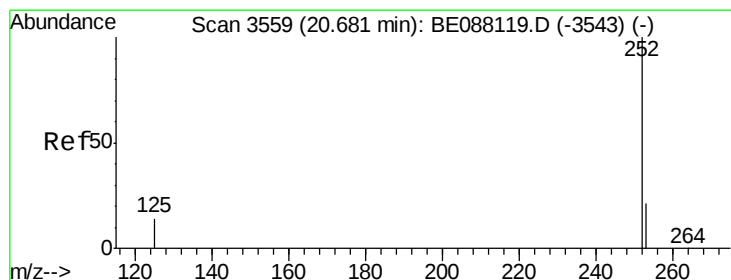
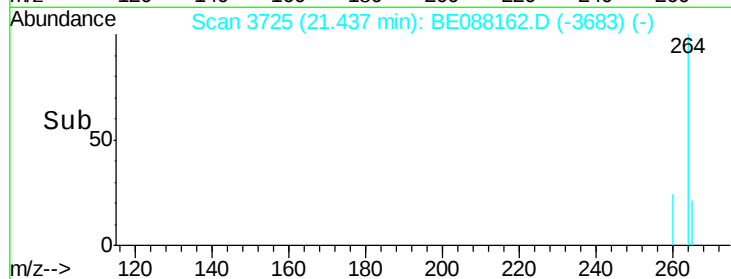
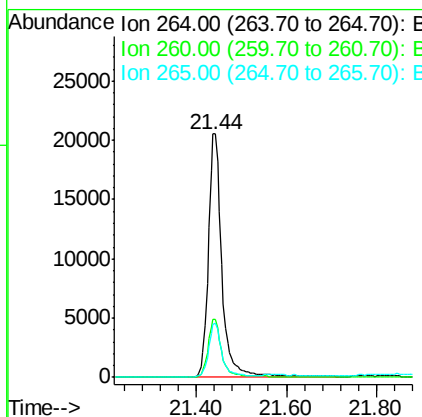
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL



Tgt Ion:	264	Resp:	42444
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.0	28.4
265	21.7	17.2	25.8

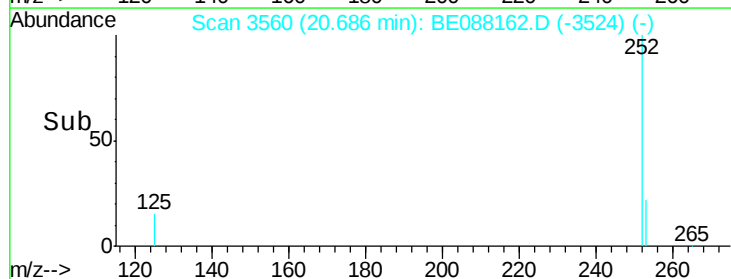
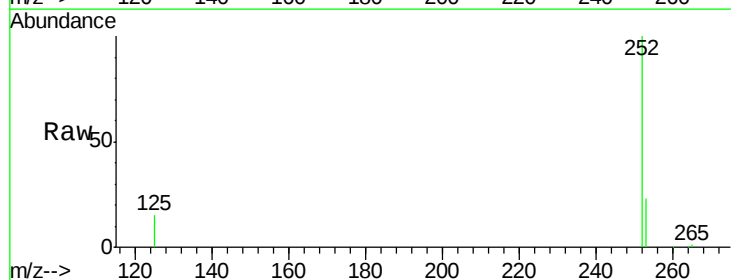
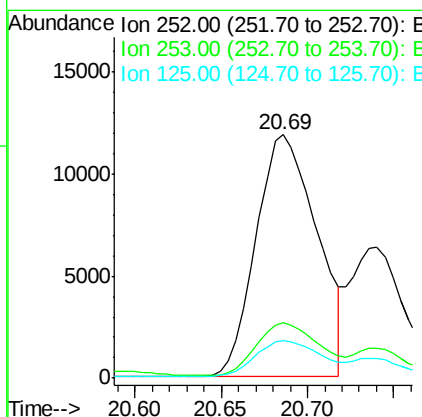
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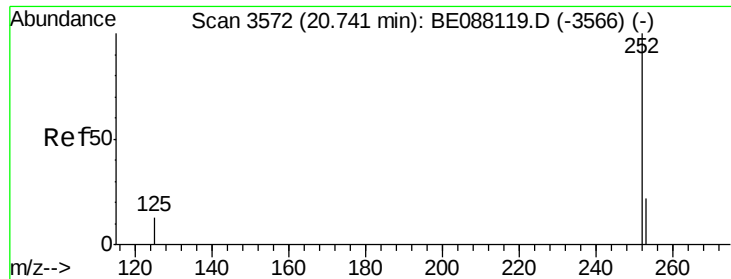
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#23
 Benzo(b)fluoranthene
 Concen: 4.32 ng
 RT: 20.69 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Tgt Ion:	252	Resp:	29080
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.4	26.0
125	15.3	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 1.93 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088162.D

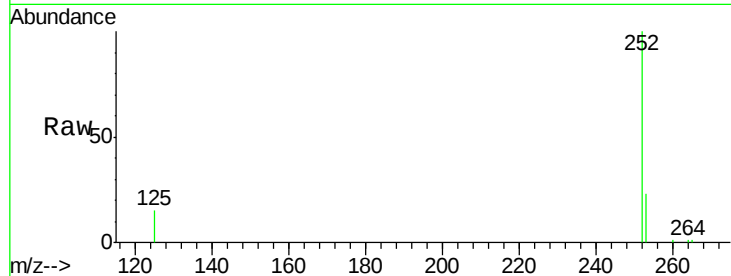
Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

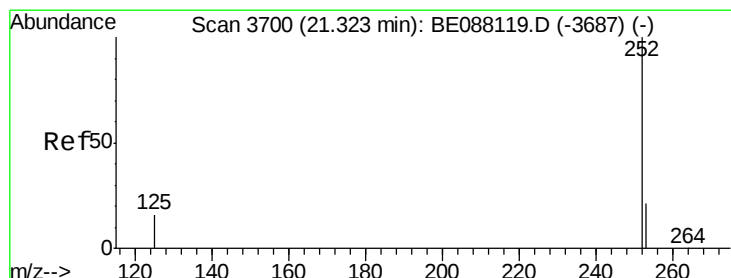
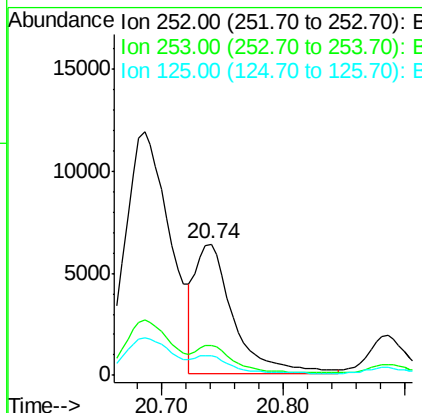
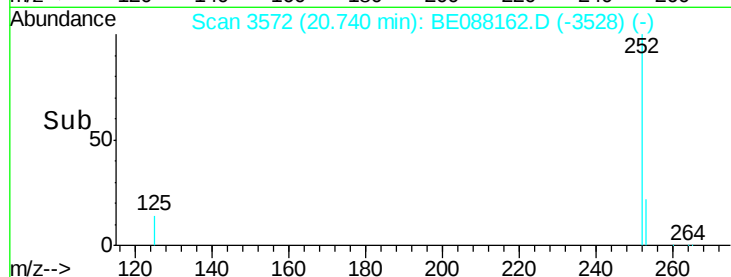
YS19-SB03-1014DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	15.2	11.5	17.3

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#25

Benzo(a)pyrene

Concen: 3.32 ng

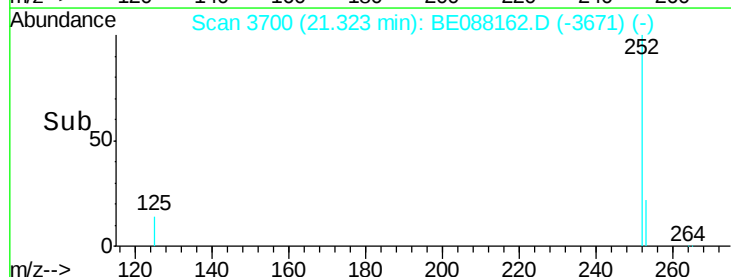
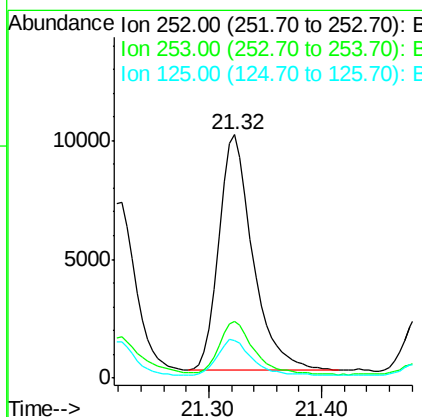
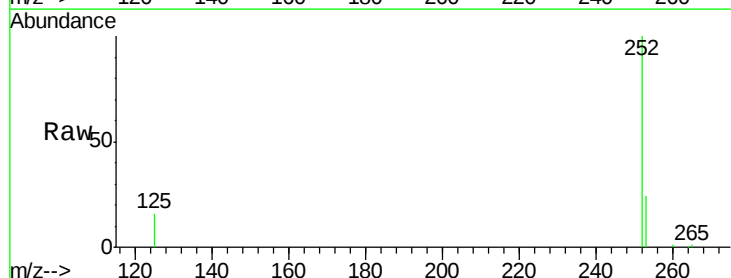
RT: 21.32 min Scan# 3700

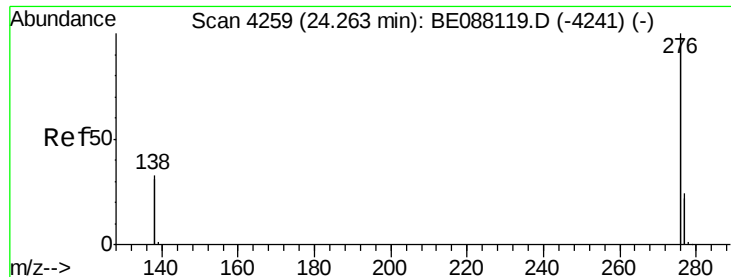
Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

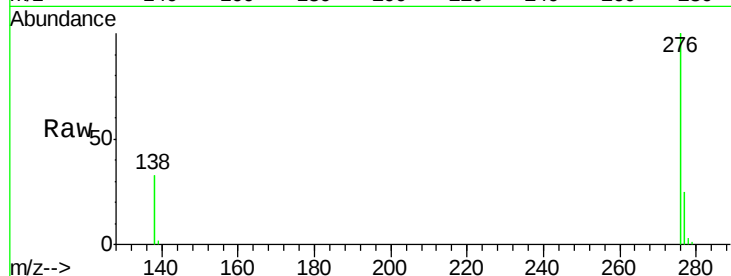
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	15.6	13.0	19.6





#27
 Benzo(g,h,i)perylene
 Concen: 2.07 ng
 RT: 24.26 min Scan# 4259
 Delta R.T. -0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		55768		
277	25.2	19.2	28.8		
138	32.6	26.6	40.0		

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