

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
 Data File : BE088187.D
 Acq On : 22 Oct 2014 18:14
 Operator : TP/JJ
 Sample : F4337-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MS

Manual Integrations
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 10/28/2014 12:06:49 PM

Quant Time: Oct 27 04:29:41 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	27953	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	111693	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	58727	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	110466	5.00	ng	0.00
16) Chrysene-d12	18.39	240	57570	5.00	ng	0.00
22) Perylene-d12	21.44	264	56167	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	52764	6.55	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	103489	6.38	ng	0.00
18) Terphenyl-d14	16.15	244	81559	8.80	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	20326	5.05	ng	98
5) Naphthalene	8.72	128	129150	5.61	ng	98
6) 2-Methylnaphthalene	9.57	142	84603	6.14	ng	95
9) Acenaphthylene	10.67	152	467317	5.22	ng	100
10) Acenaphthene	10.88	154	70351	5.09	ng	99
11) Fluorene	11.55	166	79308	5.42	ng	99
13) Phenanthrene	13.01	178	479041	5.92	ng	95
14) Anthracene	13.09	178	450318	5.22	ng	99
15) Fluoranthene	15.25	202	108991	5.19	ng	99
17) Pyrene	15.70	202	107720	6.88	ng	99
19) Benzo(a)anthracene	18.36	228	284197	5.55	ng	100
20) Chrysene	18.44	228	277003	5.51	ng	100
21) Indeno(1,2,3-cd)pyrene	23.64	276	321352m	5.76	ng	
23) Benzo(b)fluoranthene	20.69	252	70159	5.25	ng	99
24) Benzo(k)fluoranthene	20.75	252	73226	5.12	ng	99
25) Benzo(a)pyrene	21.33	252	69582	5.65	ng	99
26) Dibenzo(a,h)anthracene	23.74	278	62123	5.14	ng	97
27) Benzo(g,h,i)perylene	24.27	276	292251	5.47	ng	98

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

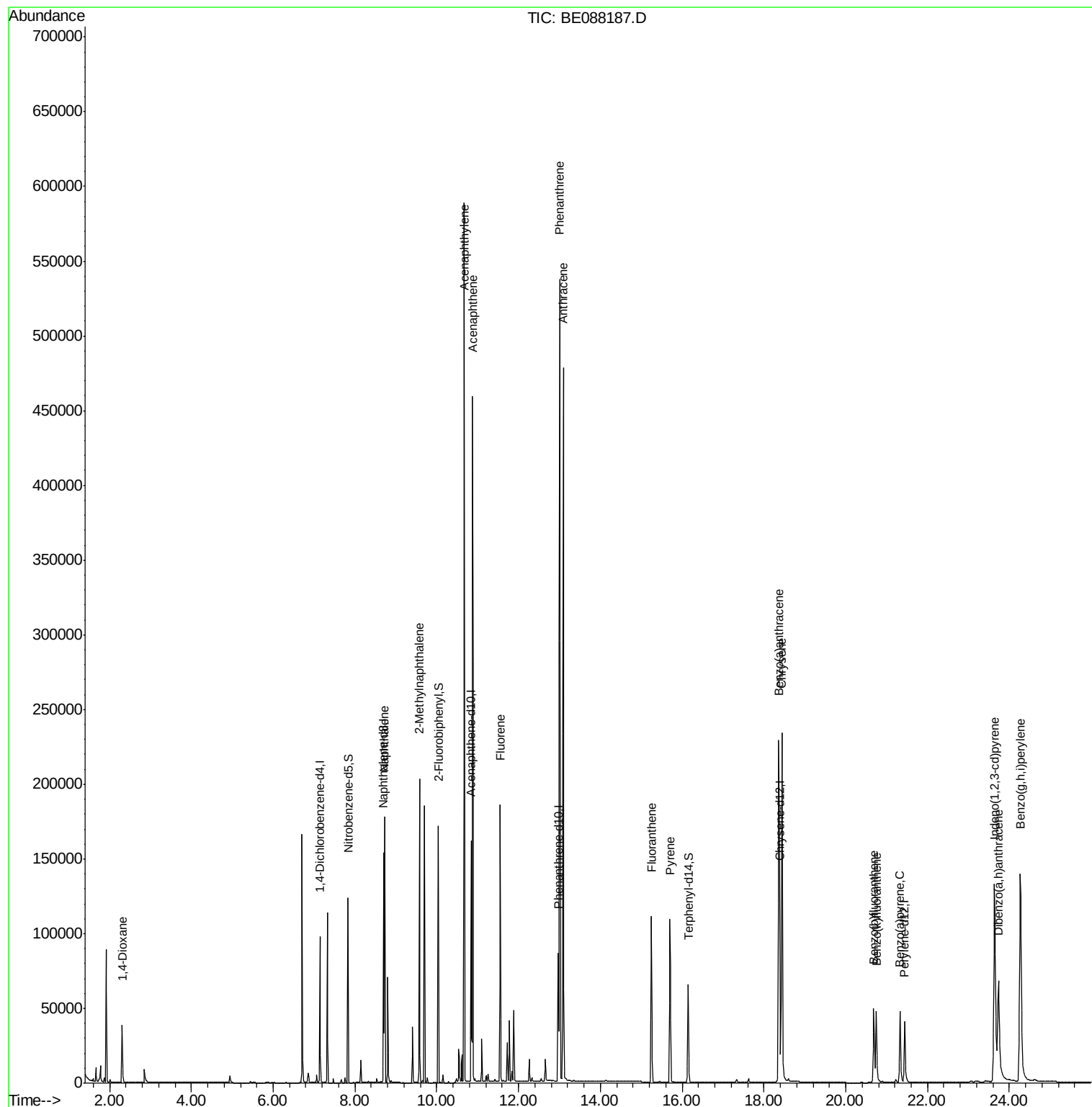
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
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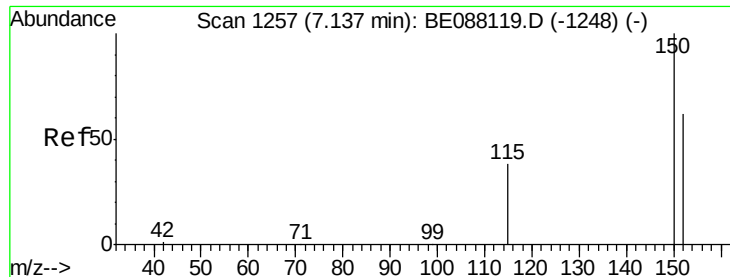
Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MS

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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: BE088187.D

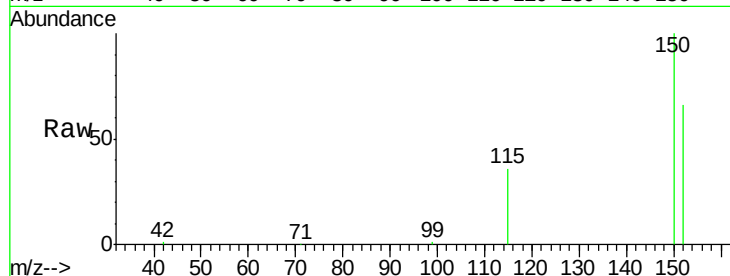
Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

ClientSampleId :

YS19-SB21-1014MS



Tgt Ion: 152 Resp: 27953

Ion Ratio Lower Upper

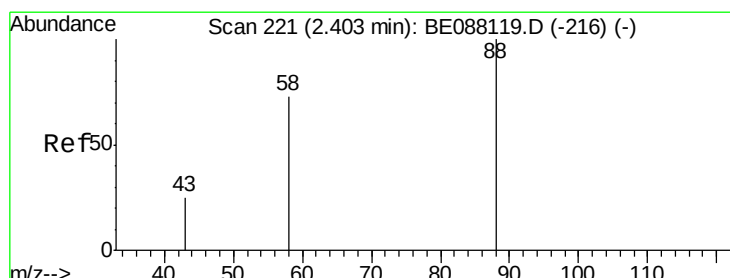
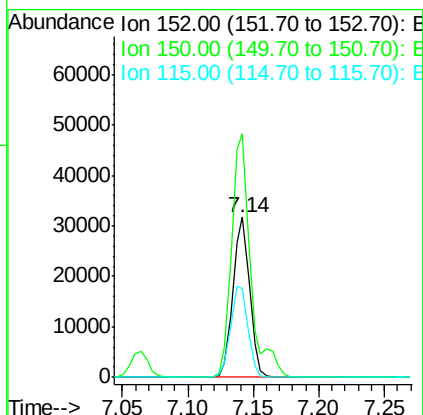
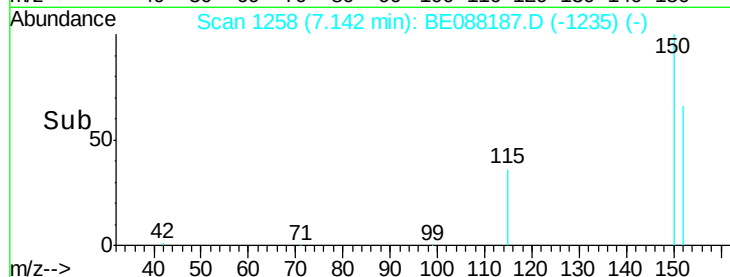
152 100

150 151.9 129.2 193.8

115 55.0 49.3 73.9

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#2

1,4-Dioxane

Concen: 5.05 ng

RT: 2.31 min Scan# 200

Delta R.T. -0.10 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

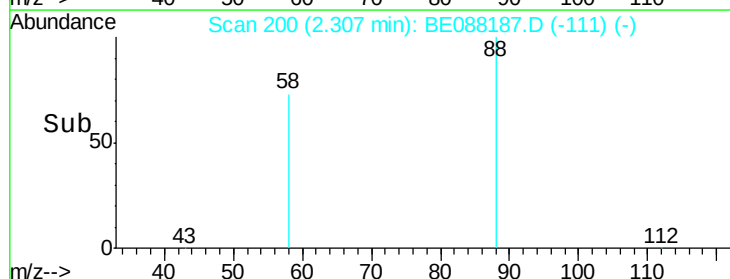
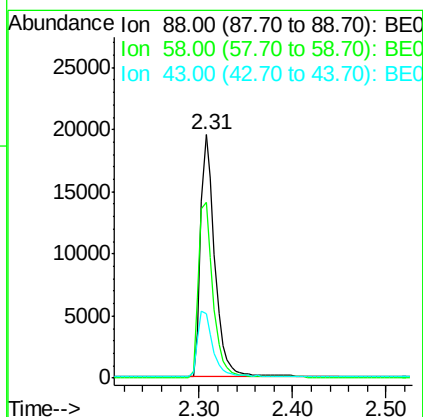
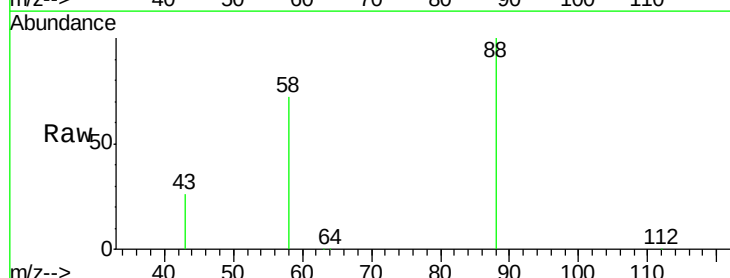
Tgt Ion: 88 Resp: 20326

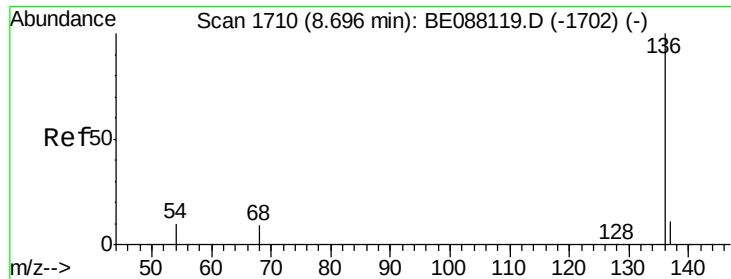
Ion Ratio Lower Upper

88 100

58 75.8 59.5 89.3

43 28.2 21.2 31.8





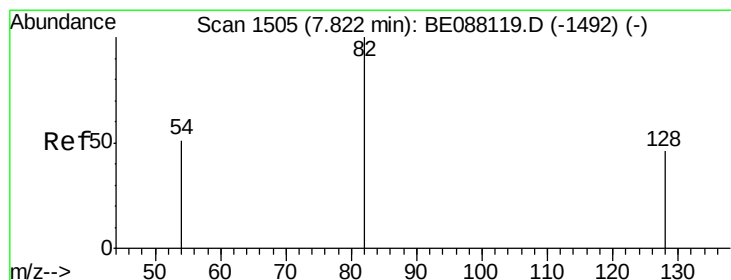
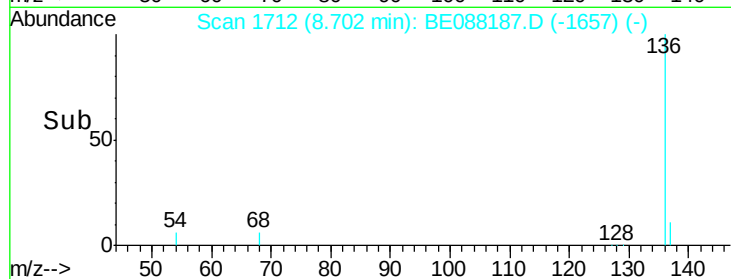
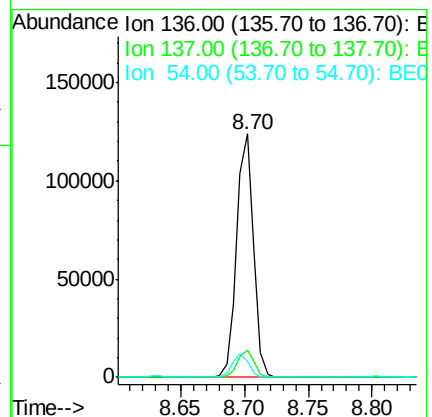
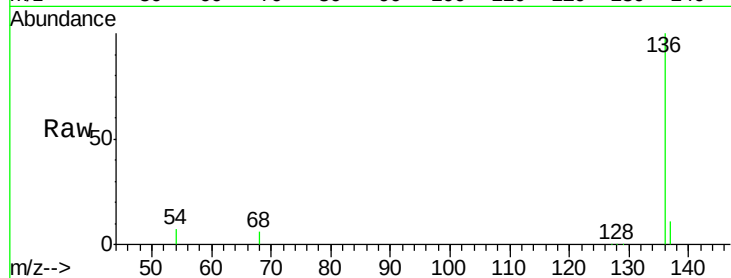
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1712
Delta R.T. 0.01 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MS

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		
137	11.1	8.6	12.8
54	6.6	7.7	11.5#

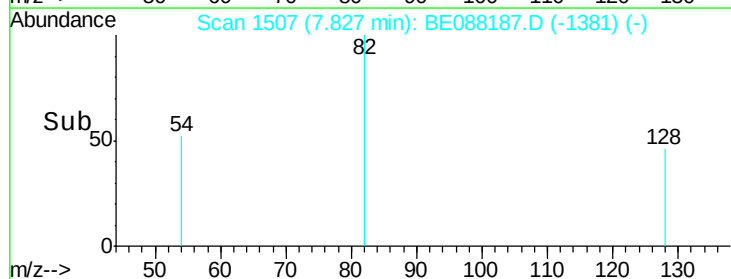
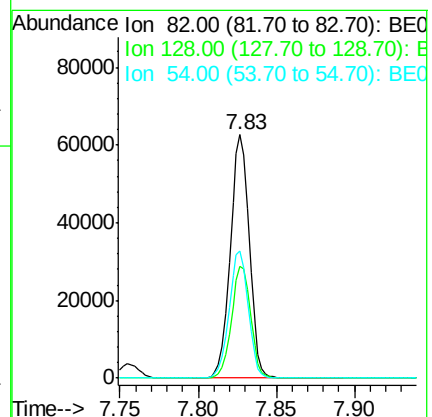
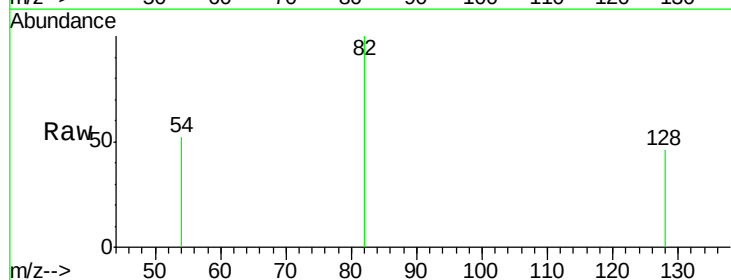
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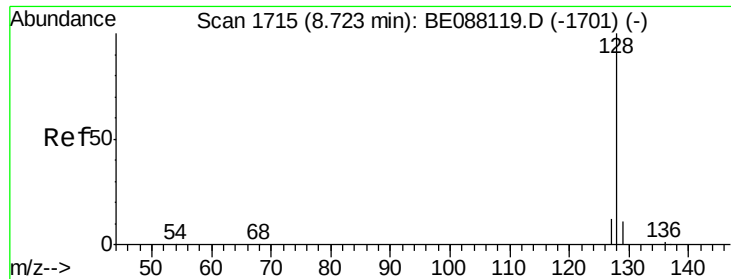
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#4
Nitrobenzene-d5
Concen: 6.55 ng
RT: 7.83 min Scan# 1507
Delta R.T. 0.00 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	45.9	37.1	55.7
54	52.3	41.1	61.7





#5

Naphthalene

Concen: 5.61 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

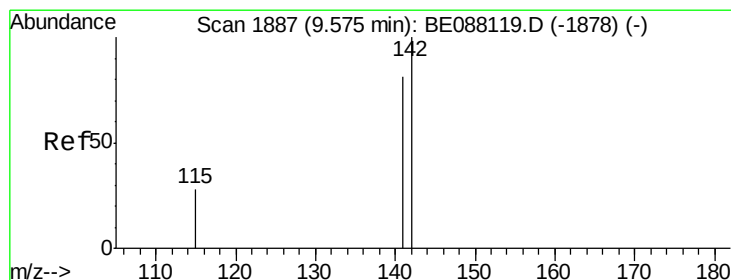
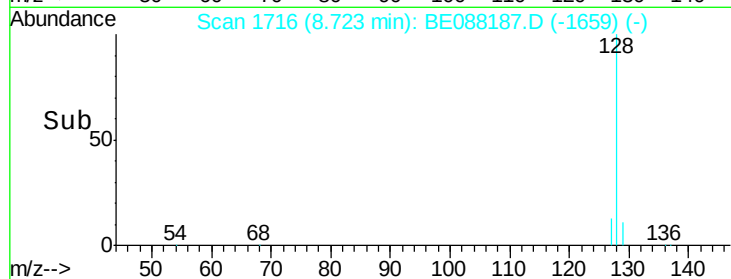
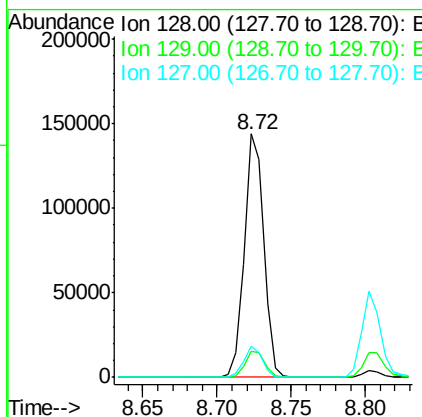
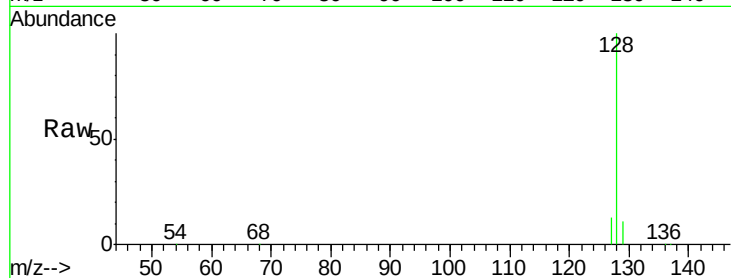
ClientSampleId :

YS19-SB21-1014MS

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	129150		
129	10.6	8.9	13.3	
127	12.8	9.7	14.5	

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#6

2-Methylnaphthalene

Concen: 6.14 ng

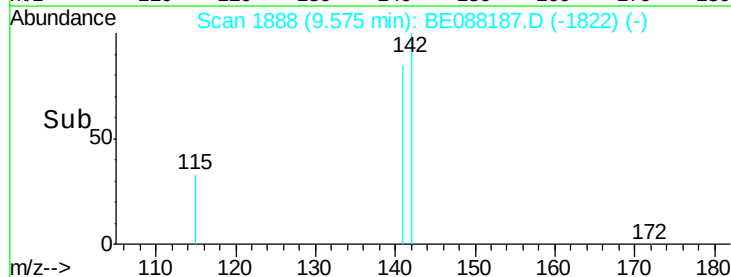
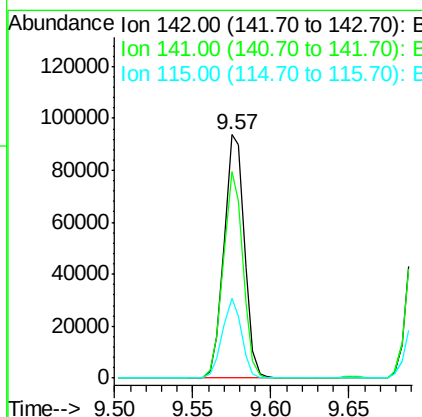
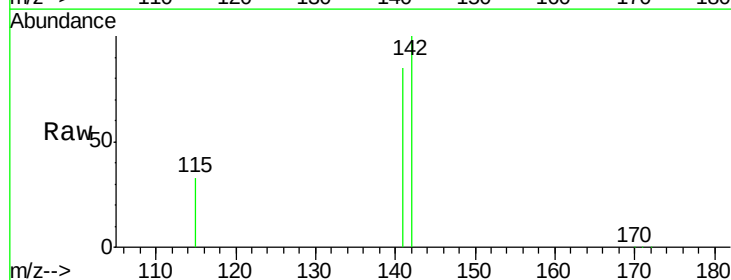
RT: 9.57 min Scan# 1888

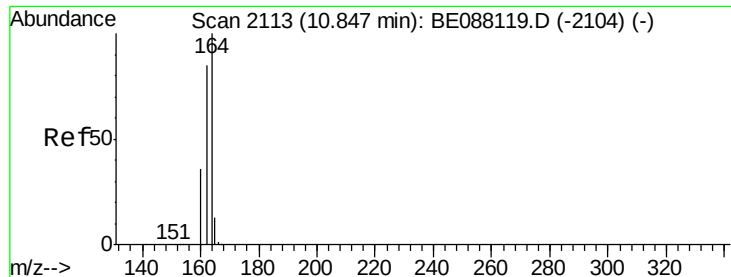
Delta R.T. -0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	84603		
141	84.6	64.6	97.0	
115	32.7	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: BE088187.D

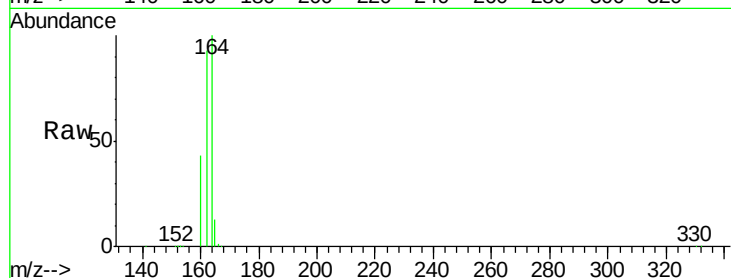
Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

ClientSampleId :

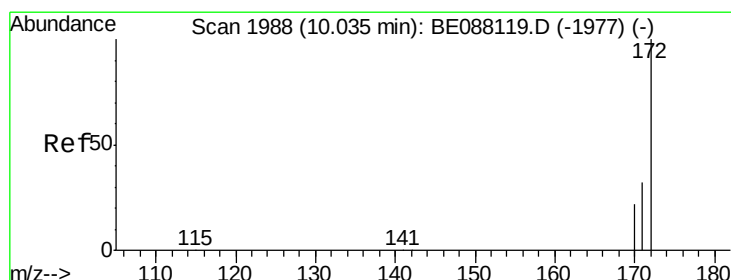
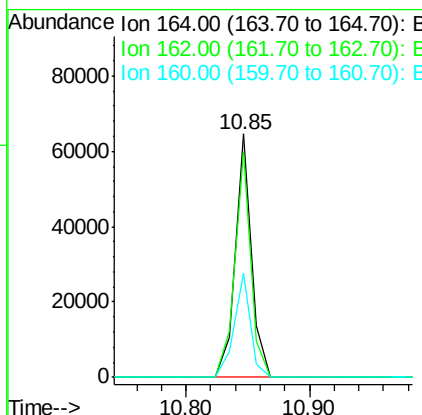
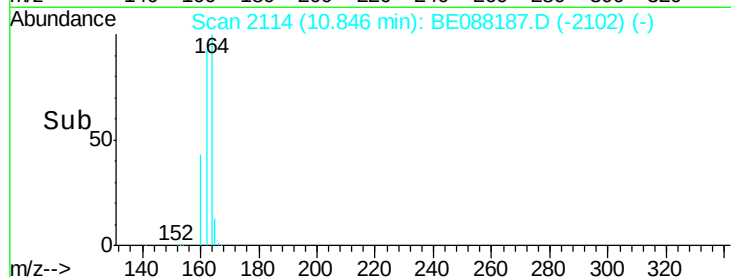
YS19-SB21-1014MS



Tgt Ion:	164	Resp:	58727
Ion Ratio	Lower	Upper	
164	100		
162	92.5	68.3	102.5
160	42.6	28.7	43.1

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#8

2-Fluorobiphenyl

Concen: 6.38 ng

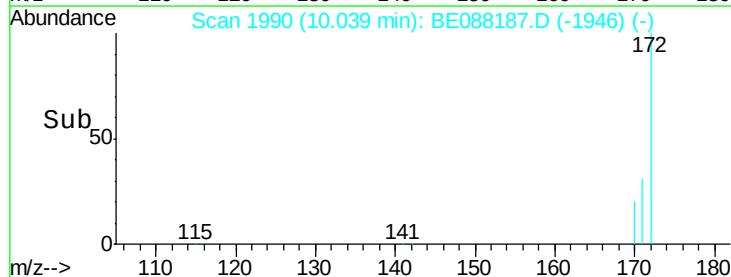
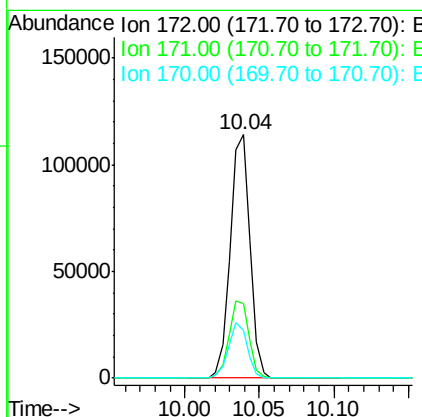
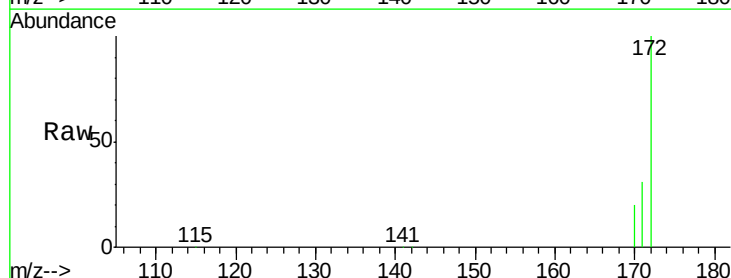
RT: 10.04 min Scan# 1990

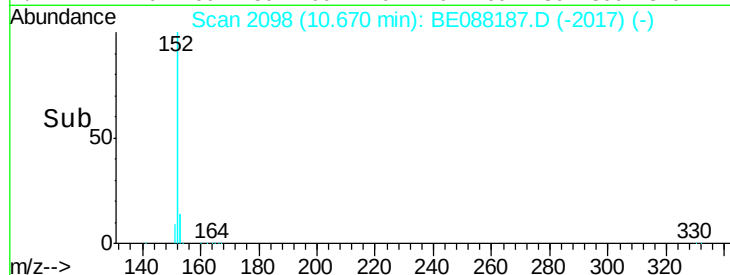
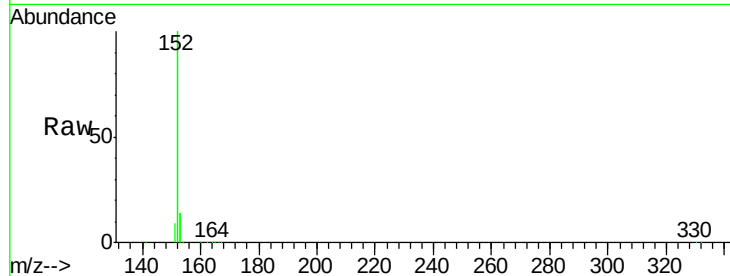
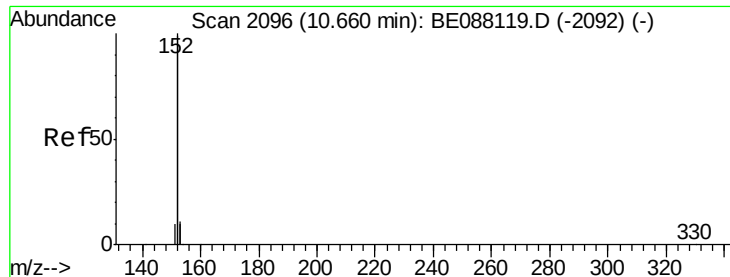
Delta R.T. 0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt Ion:	172	Resp:	103489
Ion Ratio	Lower	Upper	
172	100		
171	30.5	25.4	38.2
170	19.8	17.4	26.2





#9

Acenaphthylene

Concen: 5.22 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt Ion:	152	Resp:	467317
Ion Ratio	Lower	Upper	
152	100		
151	4.7	3.7	5.5
153	13.1	10.4	15.6

Instrument :

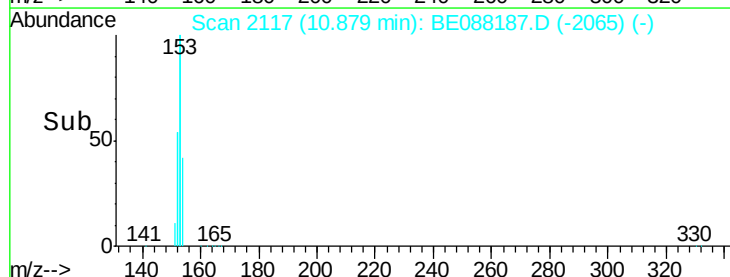
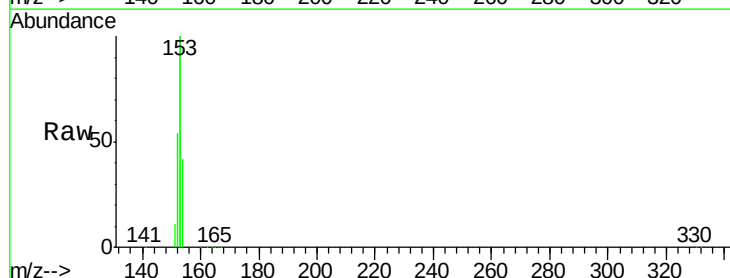
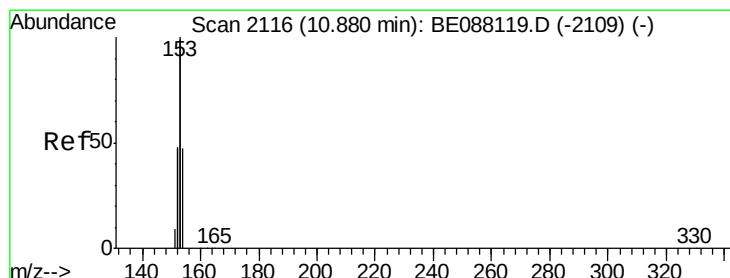
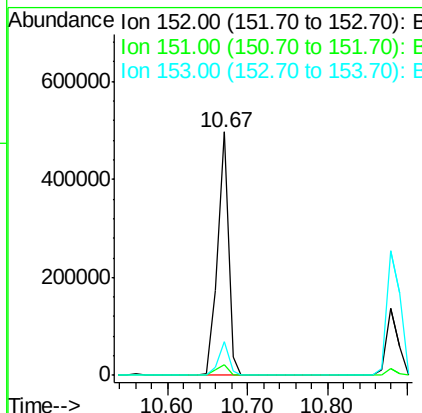
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ClientSampleId :

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#10

Acenaphthene

Concen: 5.09 ng

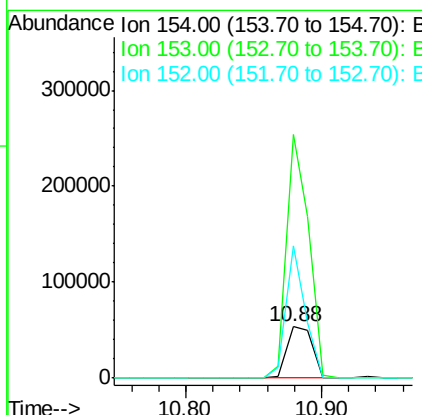
RT: 10.88 min Scan# 2117

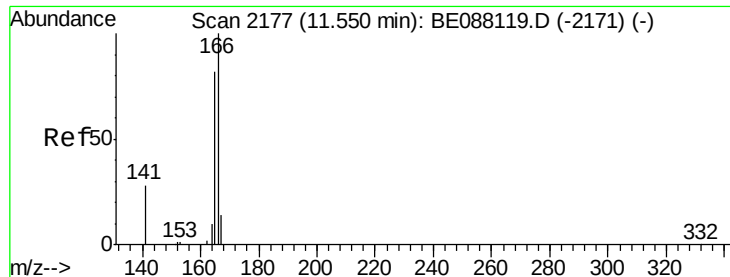
Delta R.T. -0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt Ion:	154	Resp:	70351
Ion Ratio	Lower	Upper	
154	100		
153	410.3	327.8	491.6
152	194.5	157.6	236.4





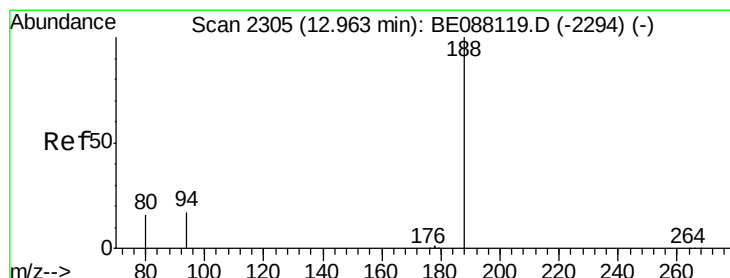
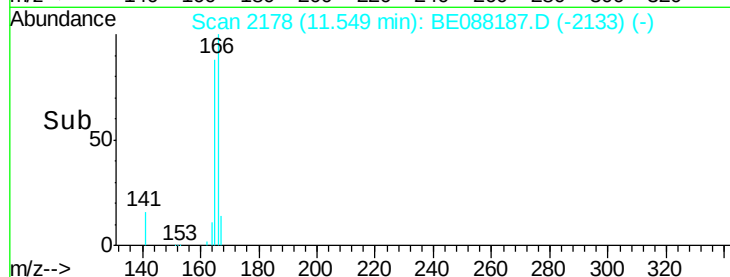
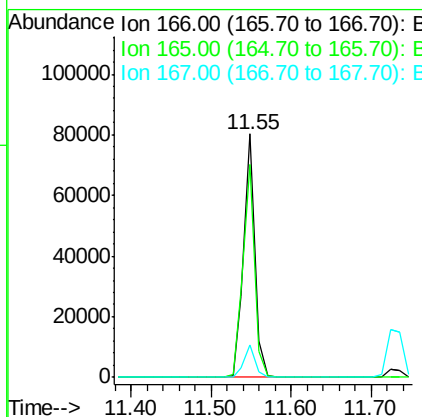
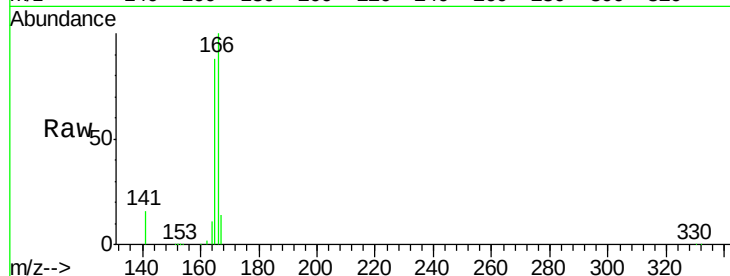
#11
Fluorene
 Concen: 5.42 ng
 RT: 11.55 min Scan# 2178
 Delta R.T. -0.00 min
 Lab File: BE088187.D
 Acq: 22 Oct 2014 18:14

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.3	71.4	107.2
167	13.5	10.6	16.0

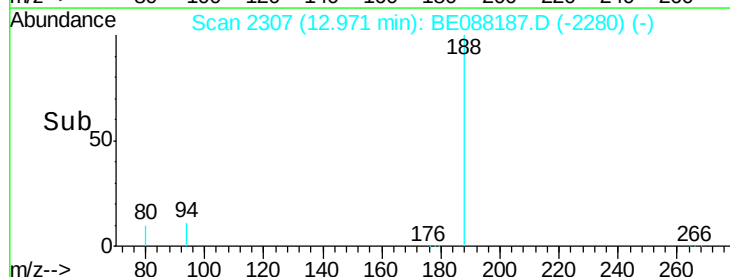
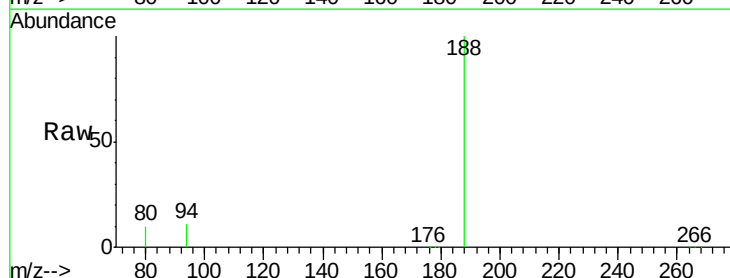
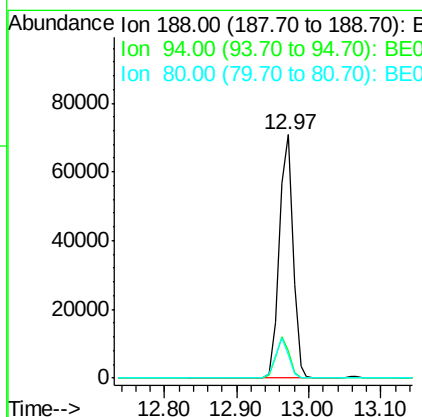
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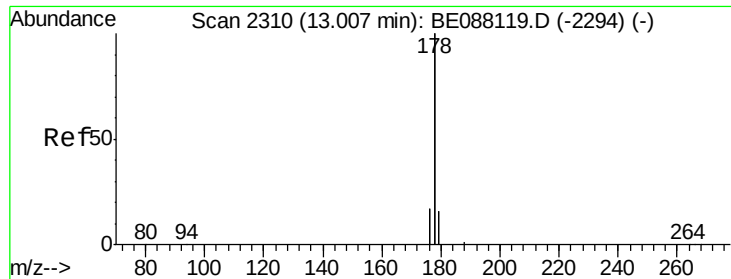
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.97 min Scan# 2307
 Delta R.T. 0.01 min
 Lab File: BE088187.D
 Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	13.9	20.9#
80	9.9	12.9	19.3#





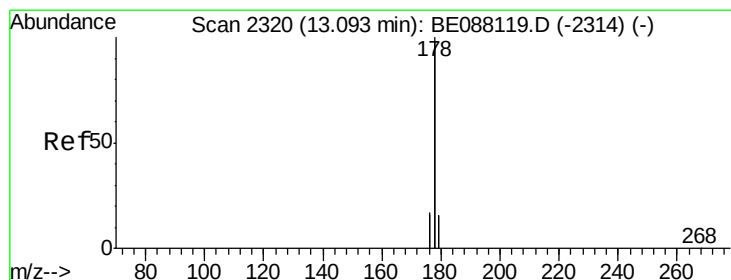
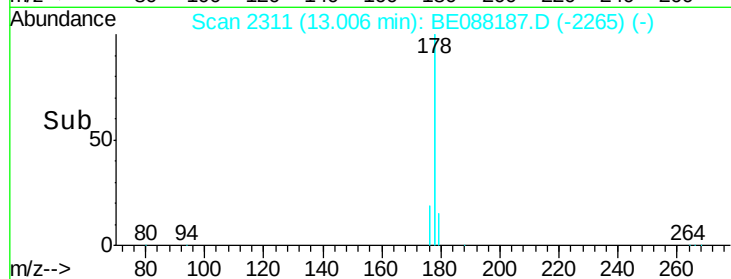
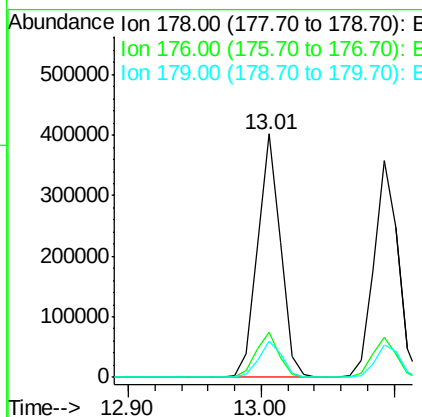
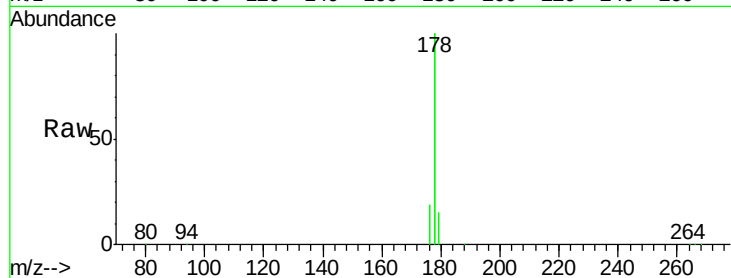
#13
Phenanthrene
Concen: 5.92 ng
RT: 13.01 min Scan# 2311
Delta R.T. -0.00 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	12.5	18.7
179	15.3	13.5	20.3

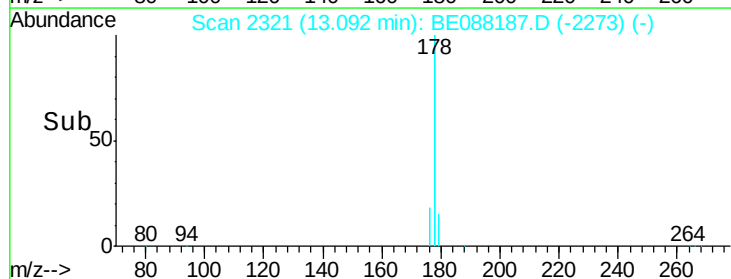
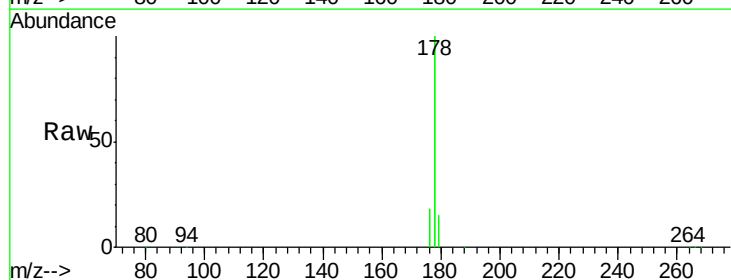
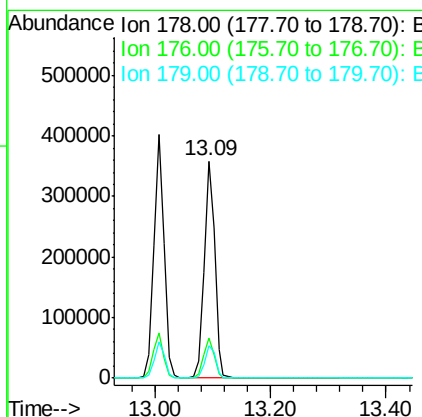
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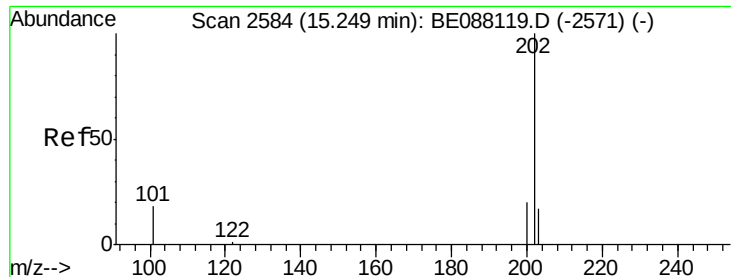
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#14
Anthracene
Concen: 5.22 ng
RT: 13.09 min Scan# 2321
Delta R.T. -0.00 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	15.1	12.5	18.7





#15

Fluoranthene

Concen: 5.19 ng

RT: 15.25 min Scan# 2586

Delta R.T. 0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

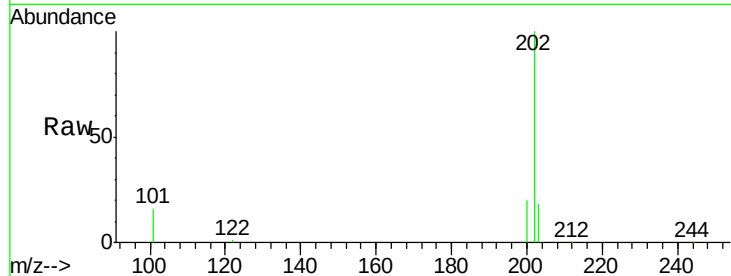
ClientSampleId :

YS19-SB21-1014MS

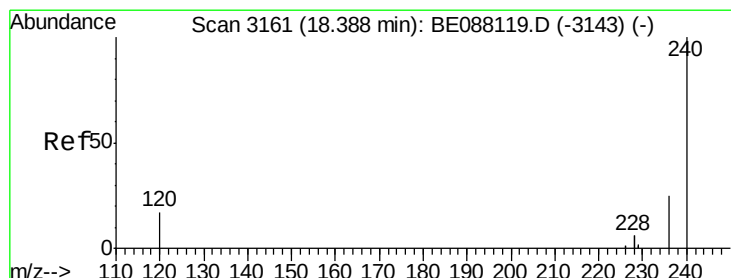
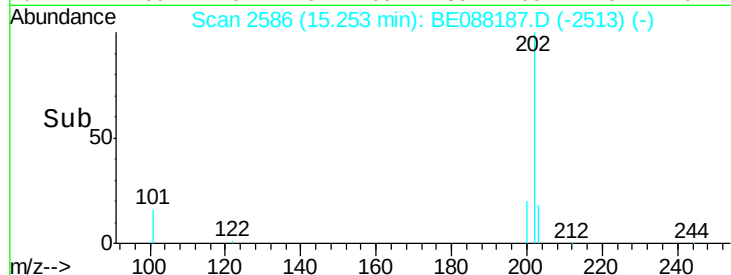
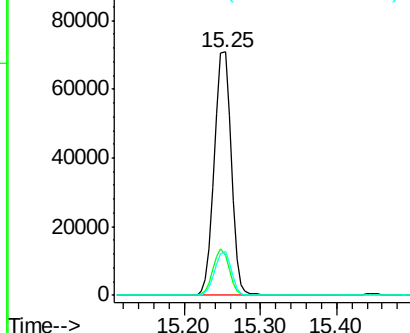
Tgt	Ion	202	Resp:	108991
Ion	Ratio	Lower	Upper	
202	100			
101	18.2	14.8	22.2	
203	17.3	13.5	20.3	

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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: 18.39 min Scan# 3162

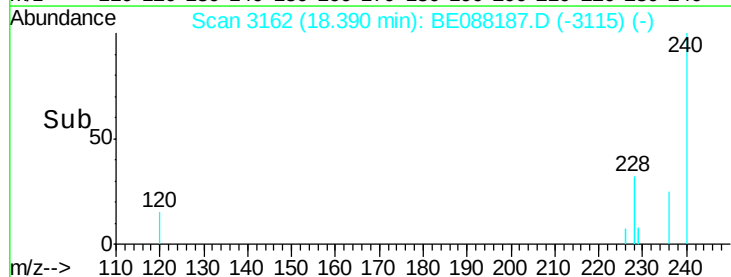
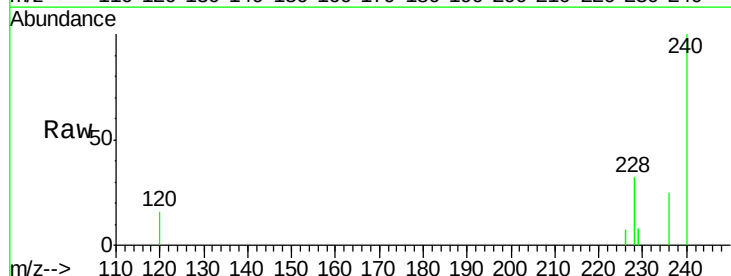
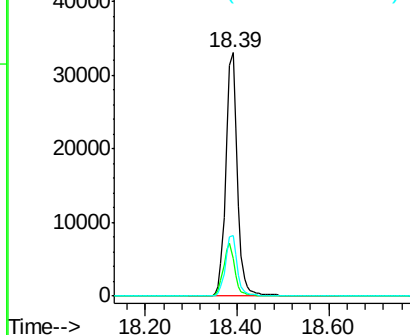
Delta R.T. 0.00 min

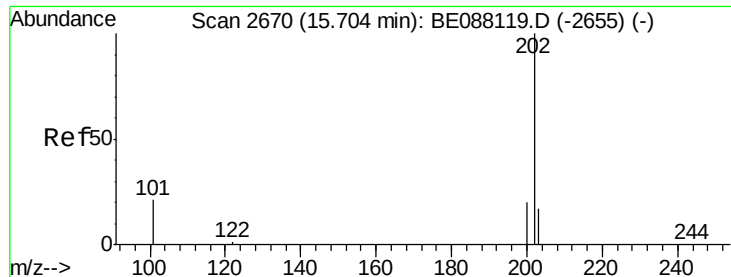
Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt	Ion	240	Resp:	57570
Ion	Ratio	Lower	Upper	
240	100			
120	15.7	13.9	20.9	
236	24.9	19.9	29.9	

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





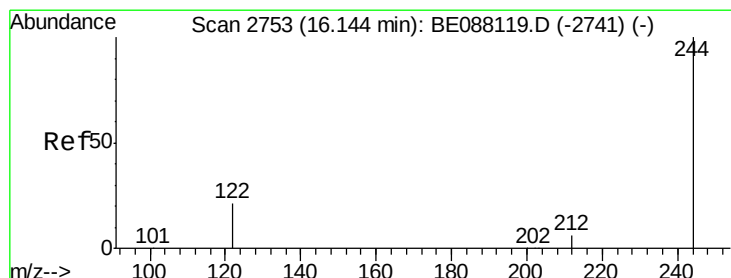
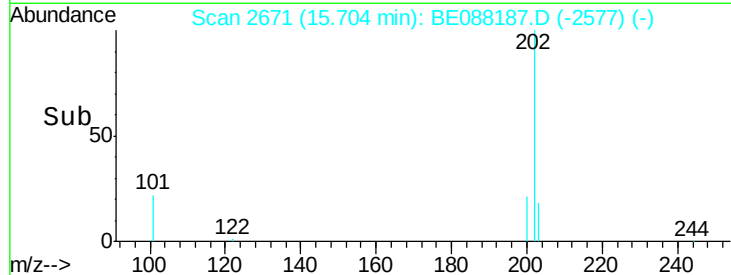
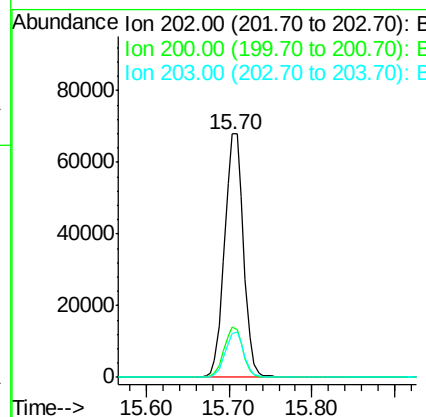
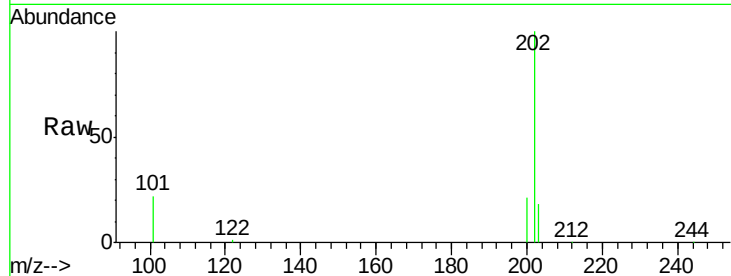
#17
 Pyrene
 Concen: 6.88 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088187.D
 Acq: 22 Oct 2014 18:14

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MS

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	107720		
200	20.2	16.1	24.1	
203	18.1	13.9	20.9	

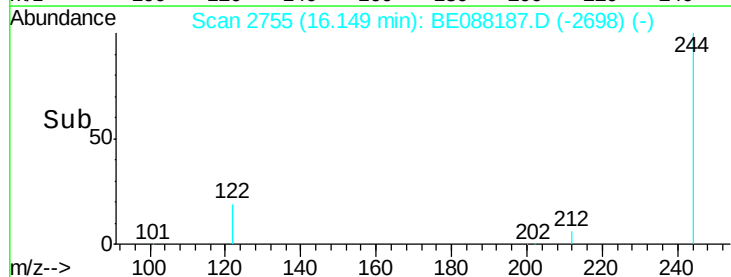
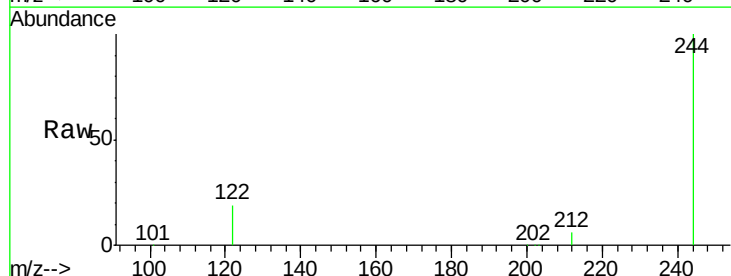
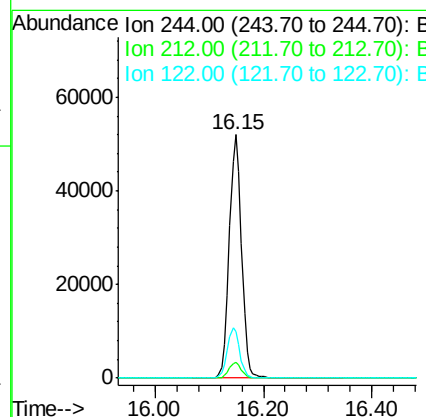
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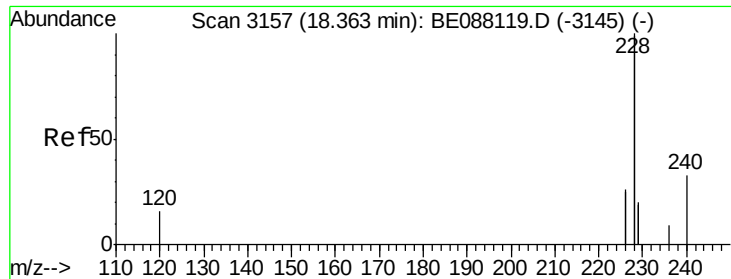
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#18
 Terphenyl-d14
 Concen: 8.80 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088187.D
 Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	81559		
212	6.4	5.4	8.0	
122	19.1	17.5	26.3	





#19

Benzo(a)anthracene

Concen: 5.55 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088187.D

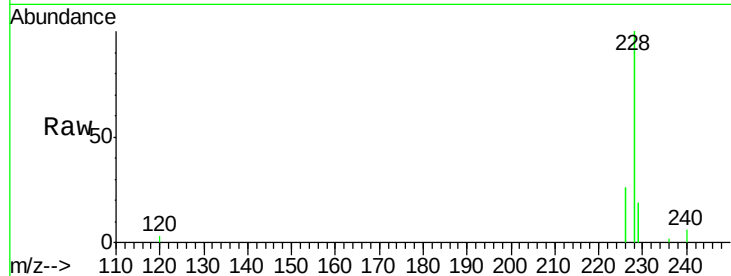
Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

ClientSampleId :

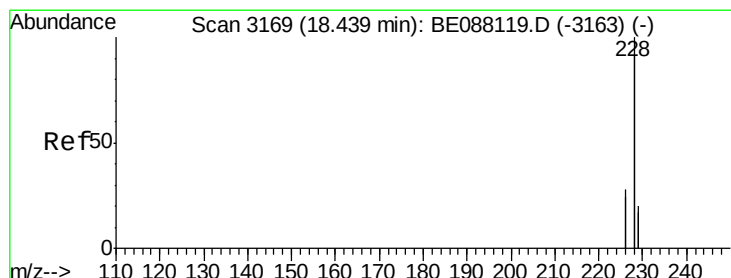
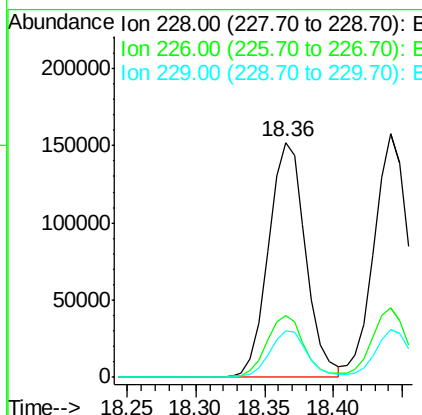
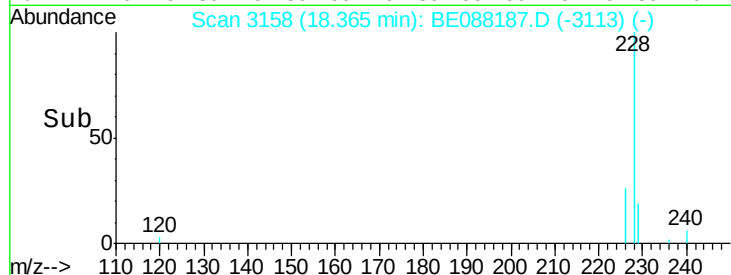
YS19-SB21-1014MS



Tgt	Ion	Ratio	Lower	Upper
228	100			
226	26.2	20.8	31.2	
229	19.5	15.6	23.4	

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#20

Chrysene

Concen: 5.51 ng

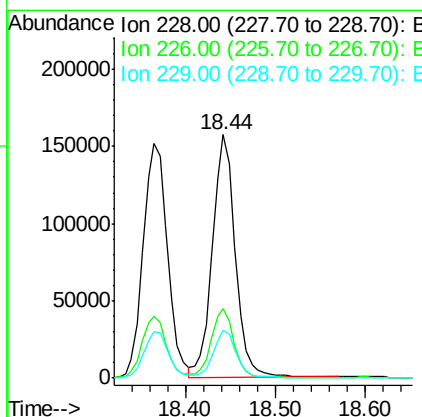
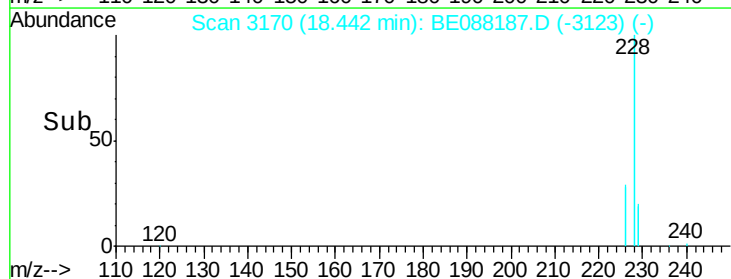
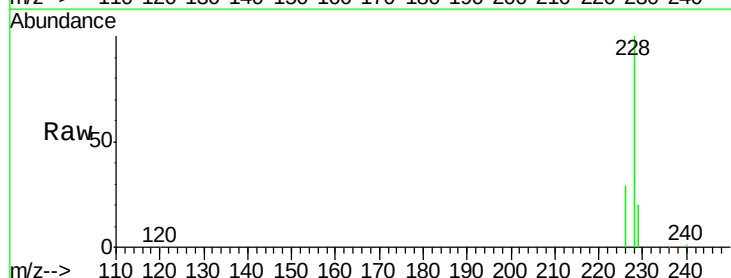
RT: 18.44 min Scan# 3170

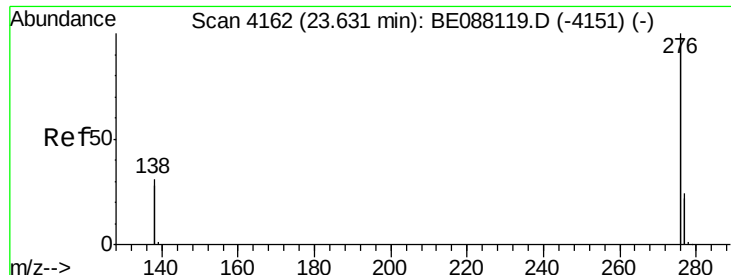
Delta R.T. 0.00 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	28.7	22.7	34.1	
229	19.5	15.8	23.6	





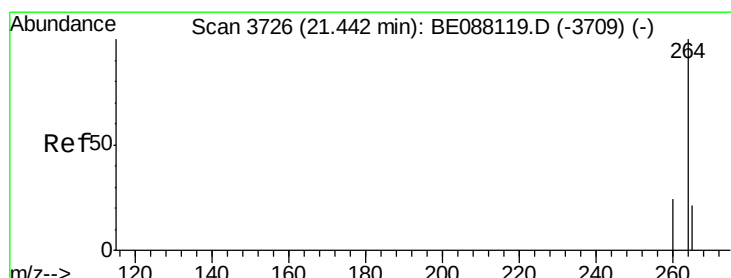
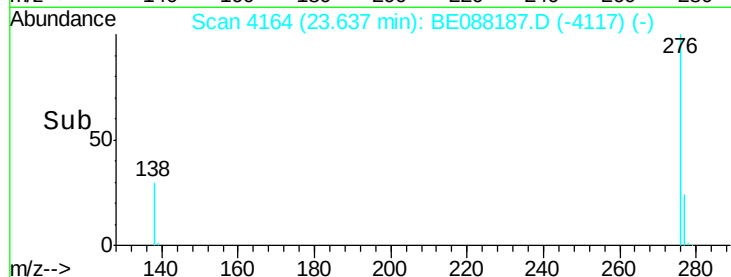
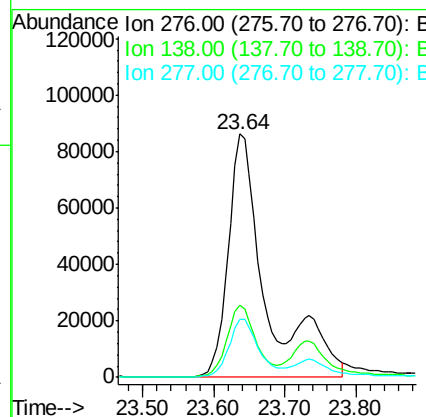
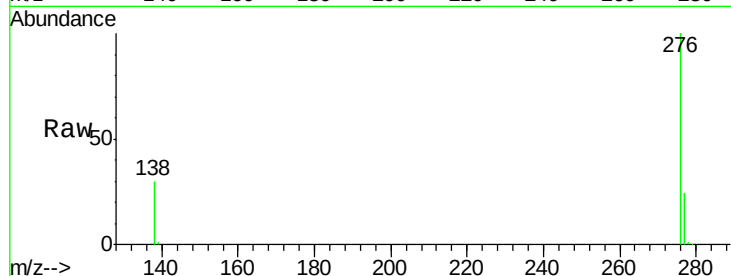
#21
Indeno(1,2,3-cd)pyrene
Concen: 5.76 ng m
RT: 23.64 min Scan# 4164
Delta R.T. 0.01 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MS

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	321352		
138	22.3	18.5	27.7	
277	18.3	14.6	21.8	

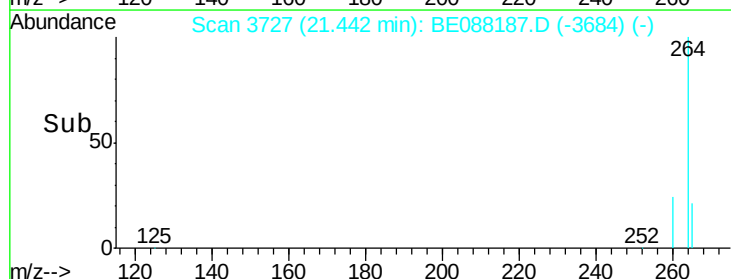
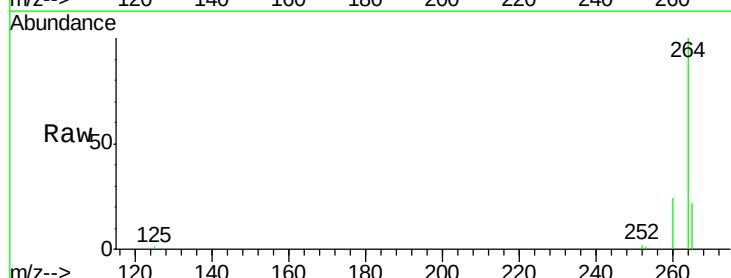
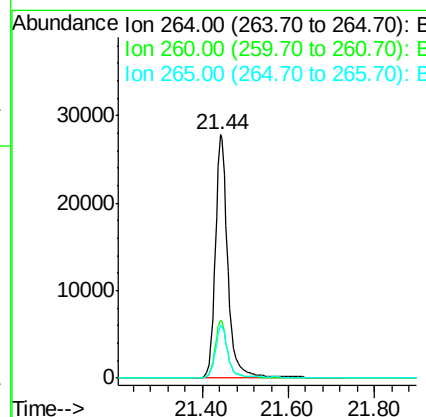
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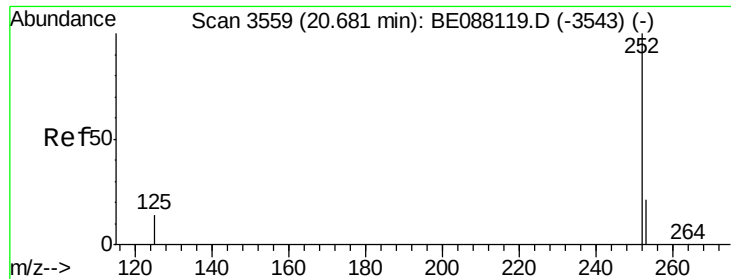
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.44 min Scan# 3727
Delta R.T. -0.00 min
Lab File: BE088187.D
Acq: 22 Oct 2014 18:14

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	56167		
260	24.0	19.0	28.4	
265	21.6	17.2	25.8	





#23

Benzo(b)fluoranthene

Concen: 5.25 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.00 min

Lab File: BE088187.D

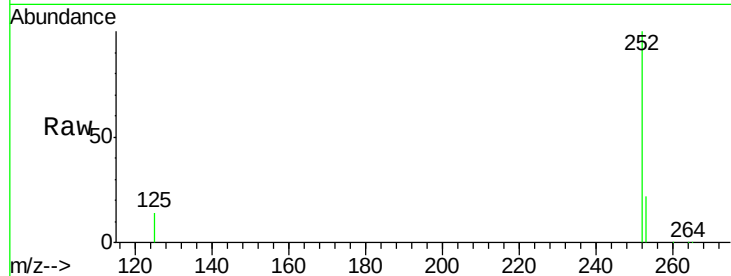
Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

ClientSampleId :

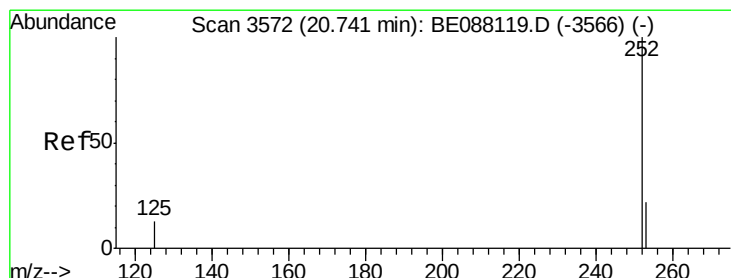
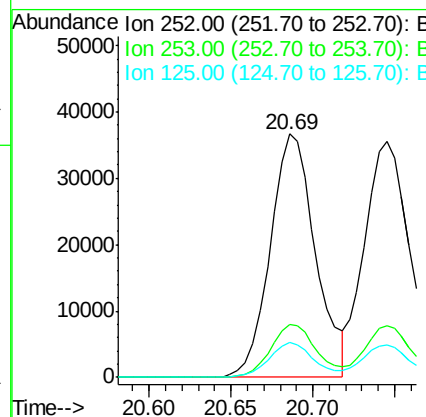
YS19-SB21-1014MS



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	14.2	11.8	17.8

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#24

Benzo(k)fluoranthene

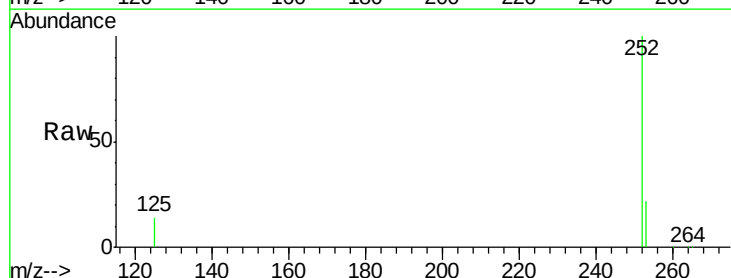
Concen: 5.12 ng

RT: 20.75 min Scan# 3574

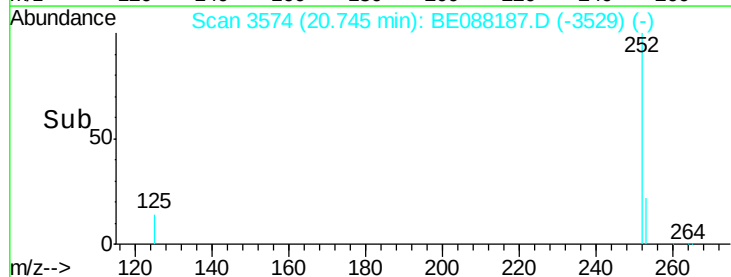
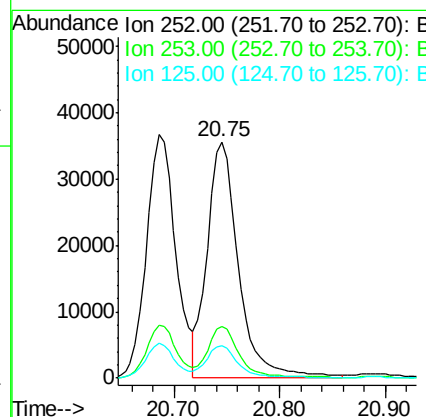
Delta R.T. 0.00 min

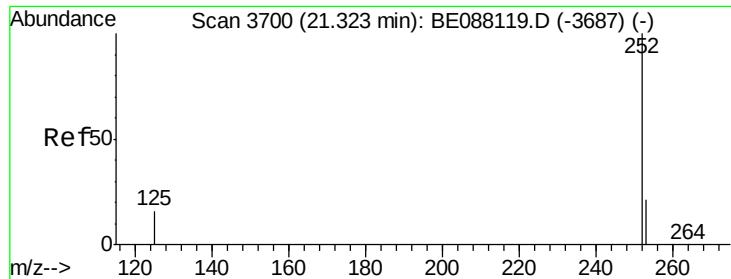
Lab File: BE088187.D

Acq: 22 Oct 2014 18:14



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	13.8	11.5	17.3





#25

Benzo(a)pyrene

Concen: 5.65 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088187.D

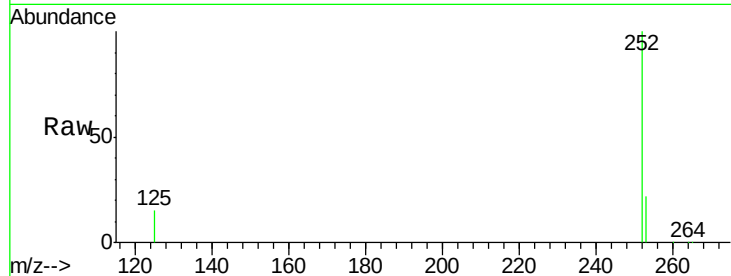
Acq: 22 Oct 2014 18:14

Instrument :

BNA_E

ClientSampleId :

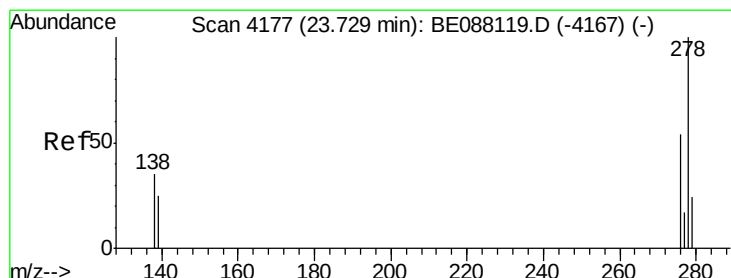
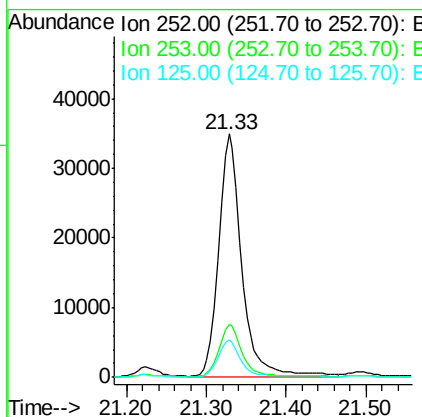
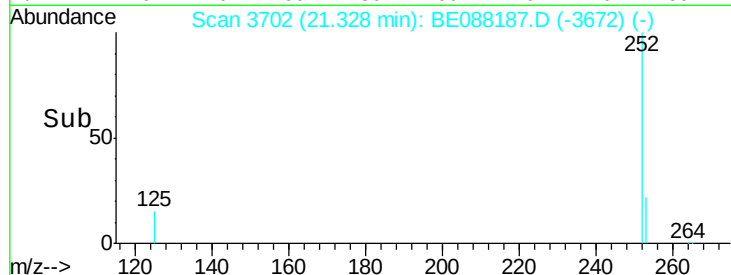
YS19-SB21-1014MS



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	15.5	13.0	19.6

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#26

Dibenzo(a,h)anthracene

Concen: 5.14 ng

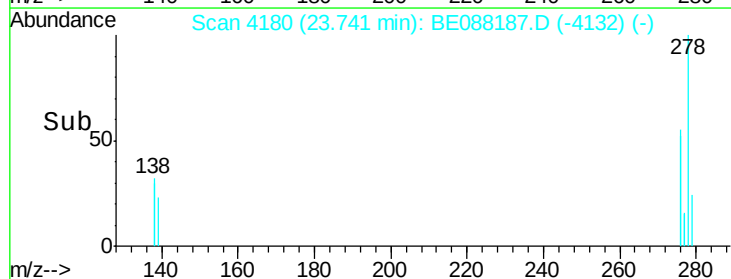
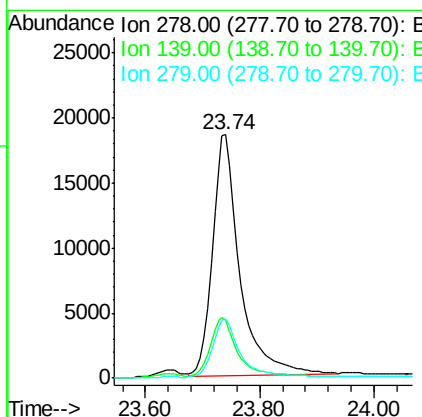
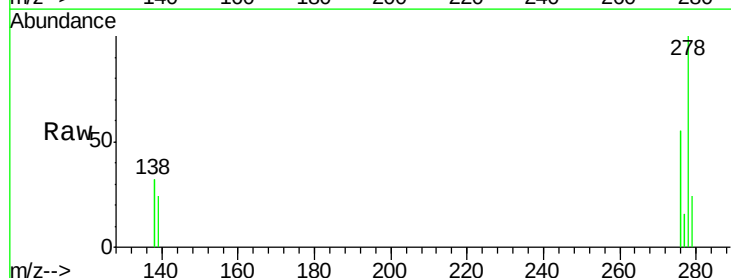
RT: 23.74 min Scan# 4180

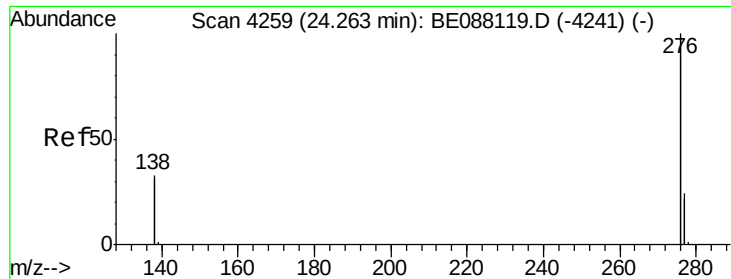
Delta R.T. 0.01 min

Lab File: BE088187.D

Acq: 22 Oct 2014 18:14

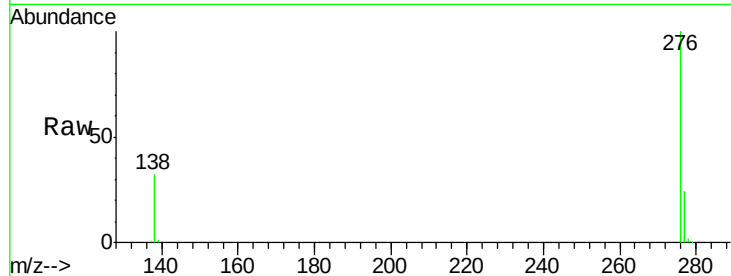
Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.7	20.9	31.3
279	24.1	19.8	29.8





#27
 Benzo(g,h,i)perylene
 Concen: 5.47 ng
 RT: 24.27 min Scan# 4261
 Delta R.T. 0.01 min
 Lab File: BE088187.D
 Acq: 22 Oct 2014 18:14

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MS



Tgt	Ion	Ratio	Lower	Upper
276	100			
277	23.7	19.2	28.8	
138	32.1	26.6	40.0	

Manual Integrations
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