

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
 Data File : BE088188.D
 Acq On : 22 Oct 2014 18:50
 Operator : TP/JJ
 Sample : F4337-02MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MSD

Manual Integrations
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Quant Time: Oct 27 04:31:32 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	28027	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	113316	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	58917	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	91974	5.00	ng	0.00
16) Chrysene-d12	18.39	240	58599	5.00	ng	0.00
22) Perylene-d12	21.44	264	55023	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	51380	6.29	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	98132	6.03	ng	0.00
18) Terphenyl-d14	16.15	244	76886	8.15	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.30	88	22393	5.55	ng	98
5) Naphthalene	8.72	128	141455	6.06	ng	99
6) 2-Methylnaphthalene	9.58	142	96760	6.92	ng	98
9) Acenaphthylene	10.67	152	557810	6.21	ng	100
10) Acenaphthene	10.88	154	80964	5.84	ng	99
11) Fluorene	11.55	166	93386	6.36	ng	99
13) Phenanthrene	13.01	178	530330	7.96	ng	94
14) Anthracene	13.09	178	528799	7.37	ng	99
15) Fluoranthene	15.25	202	118964	6.80	ng	99
17) Pyrene	15.71	202	119949	7.53	ng	99
19) Benzo(a)anthracene	18.37	228	335544	6.44	ng	98
20) Chrysene	18.44	228	321595	6.29	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	375034m	6.60	ng	
23) Benzo(b)fluoranthene	20.69	252	80629	6.16	ng	99
24) Benzo(k)fluoranthene	20.75	252	83715	5.97	ng	99
25) Benzo(a)pyrene	21.33	252	78367	6.50	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	75642	6.39	ng	98
27) Benzo(g,h,i)perylene	24.28	276	337308	6.45	ng	98

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

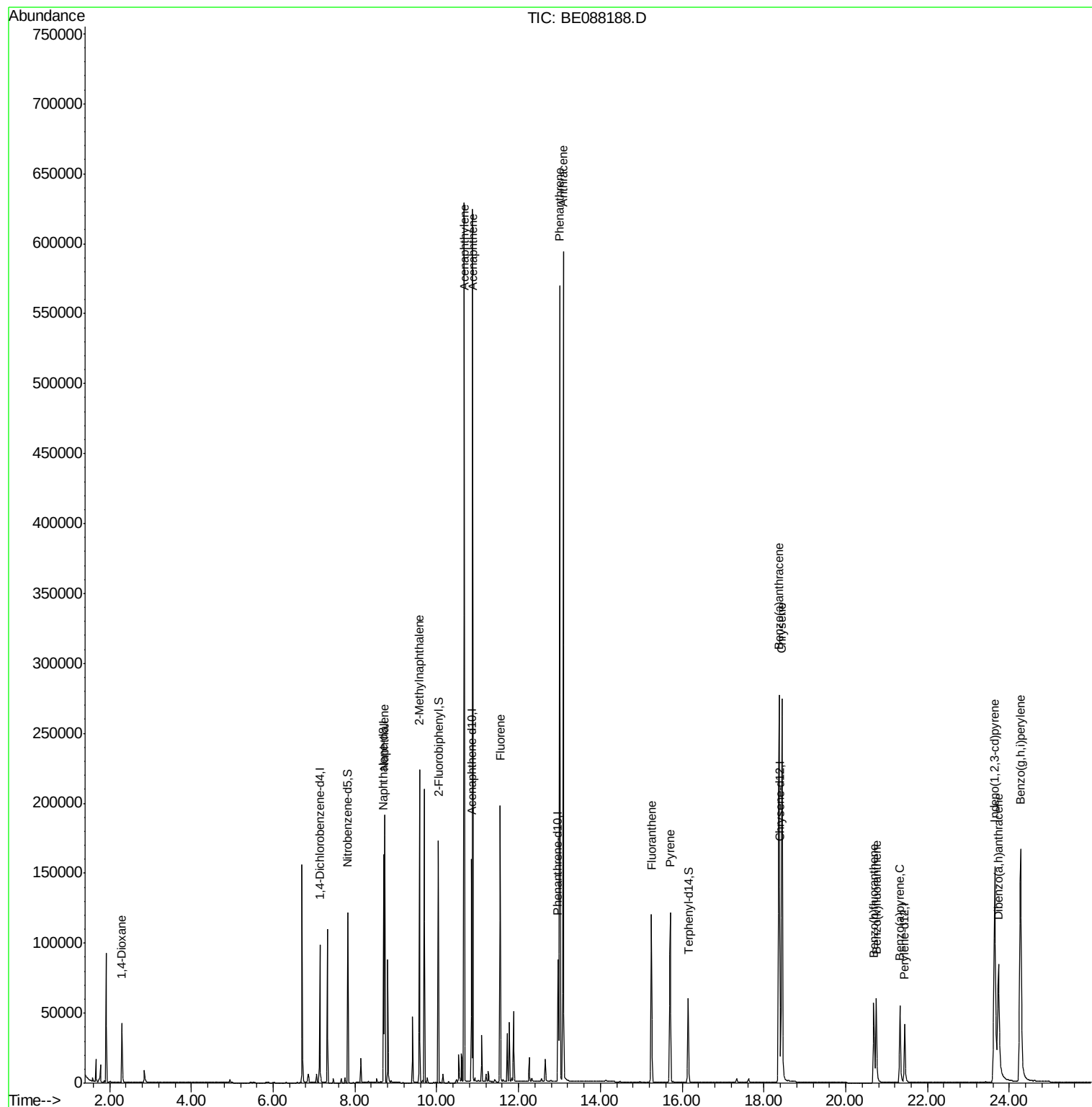
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
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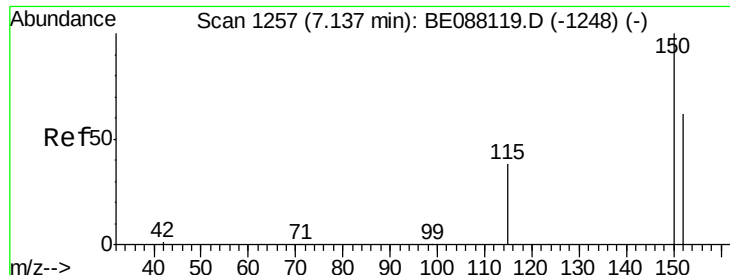
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088188.D

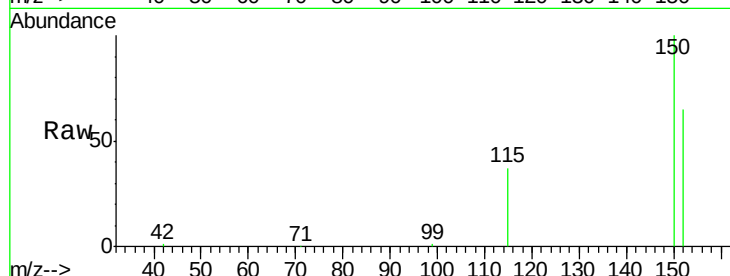
Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB21-1014MSD



Tgt Ion: 152 Resp: 28027

Ion Ratio Lower Upper

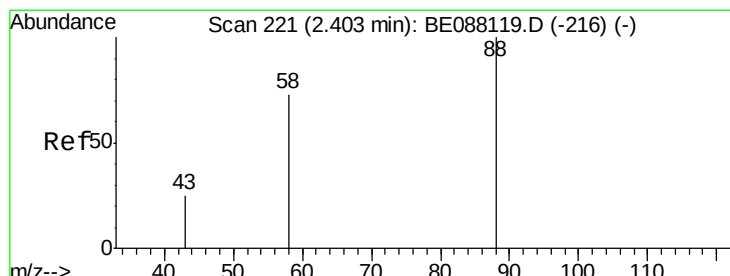
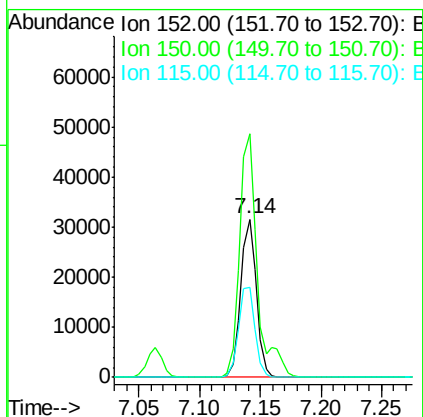
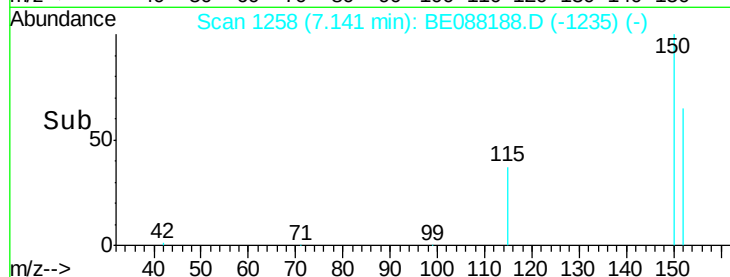
152 100

150 154.0 129.2 193.8

115 57.2 49.3 73.9

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#2

1,4-Dioxane

Concen: 5.55 ng

RT: 2.30 min Scan# 199

Delta R.T. -0.10 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

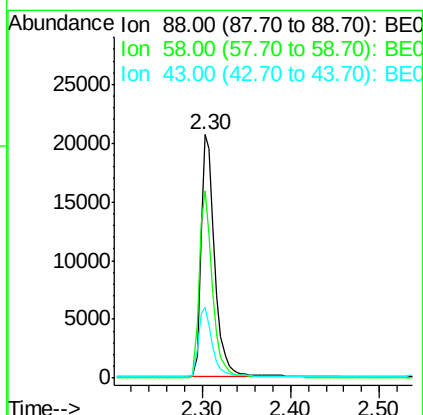
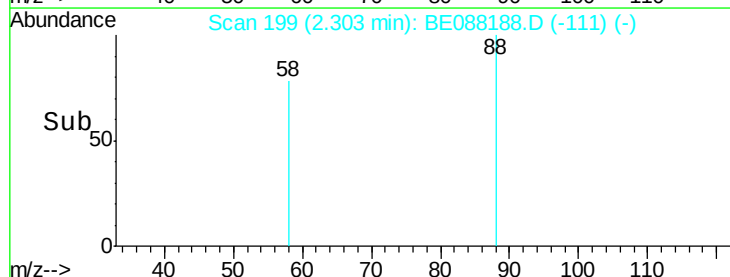
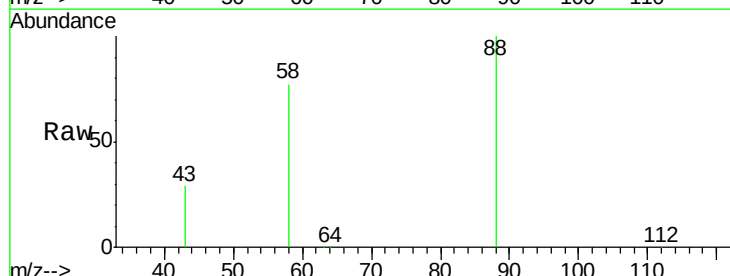
Tgt Ion: 88 Resp: 22393

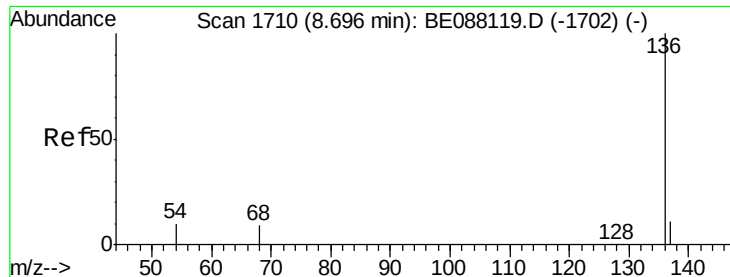
Ion Ratio Lower Upper

88 100

58 75.3 59.5 89.3

43 28.4 21.2 31.8





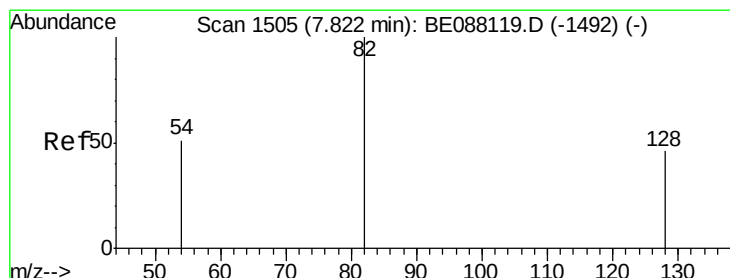
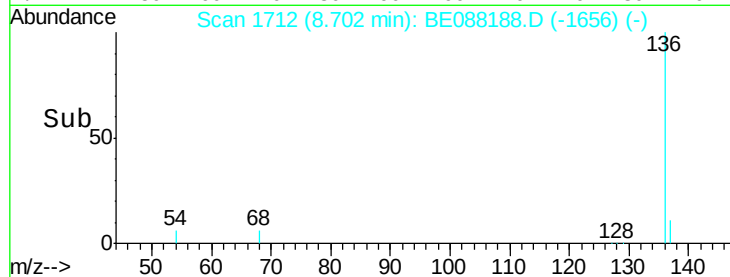
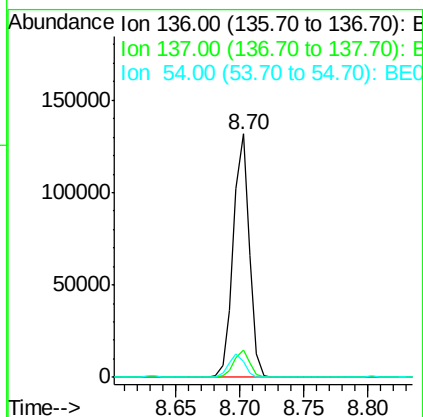
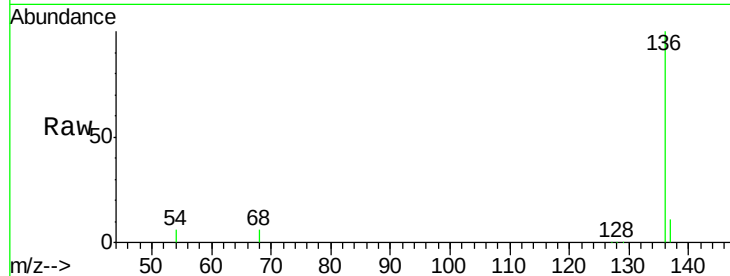
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1712
Delta R.T. 0.01 min
Lab File: BE088188.D
Acq: 22 Oct 2014 18:50

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		
137	11.1	8.6	12.8
54	6.4	7.7	11.5

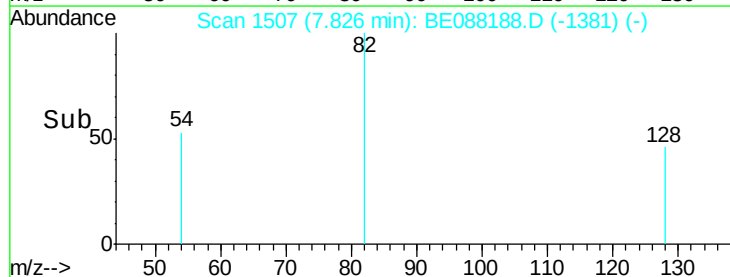
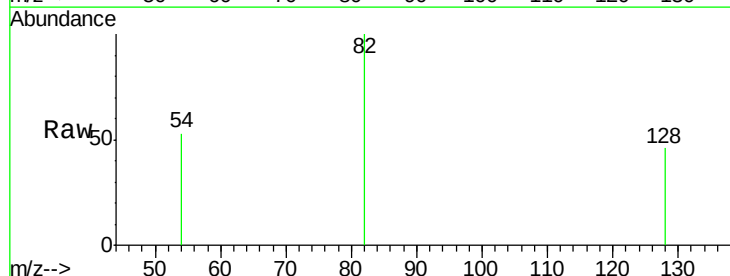
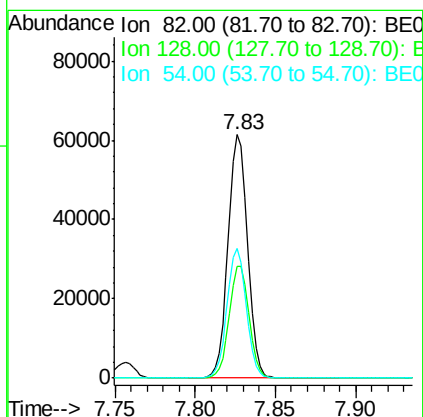
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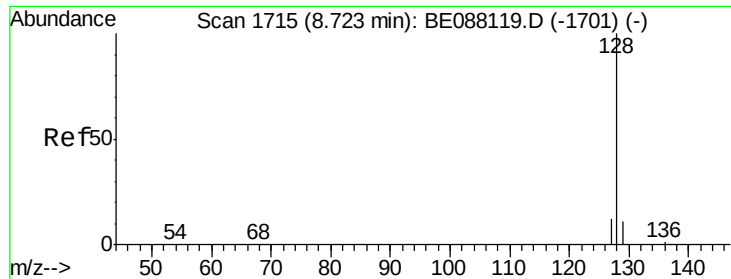
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#4
Nitrobenzene-d5
Concen: 6.29 ng
RT: 7.83 min Scan# 1507
Delta R.T. 0.00 min
Lab File: BE088188.D
Acq: 22 Oct 2014 18:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	45.8	37.1	55.7
54	53.1	41.1	61.7





#5

Naphthalene

Concen: 6.06 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

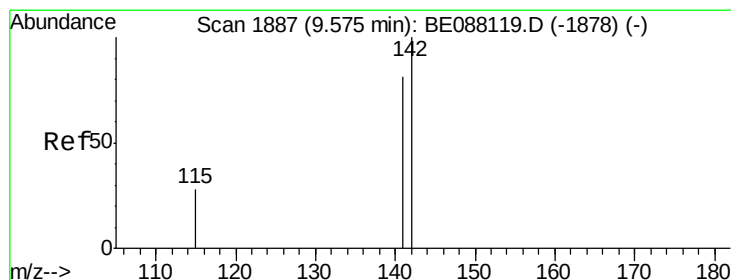
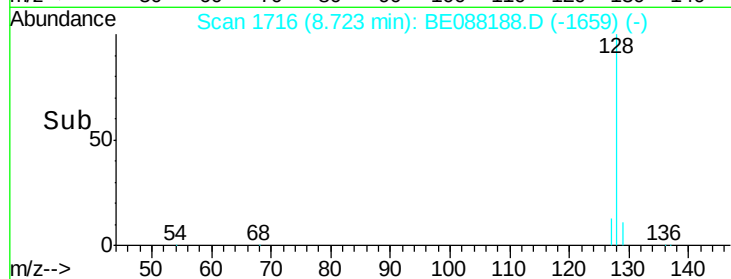
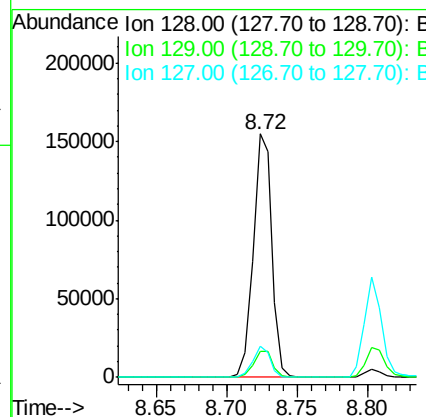
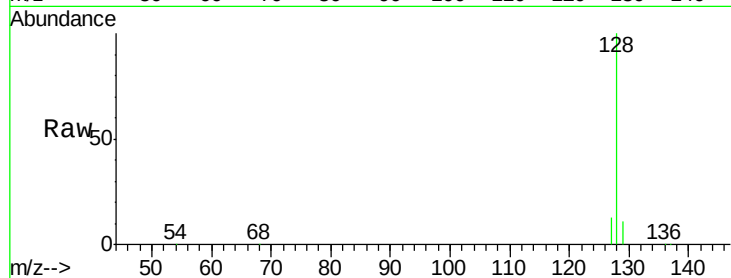
ClientSampleId :

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Tgt Ion:	128	Resp:	141455
Ion Ratio		Lower	Upper
128	100		
129	10.7	8.9	13.3
127	12.8	9.7	14.5

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#6

2-Methylnaphthalene

Concen: 6.92 ng

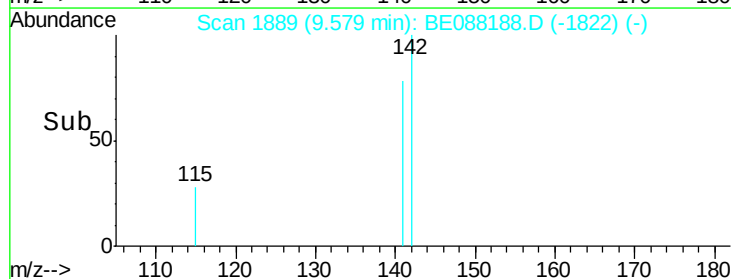
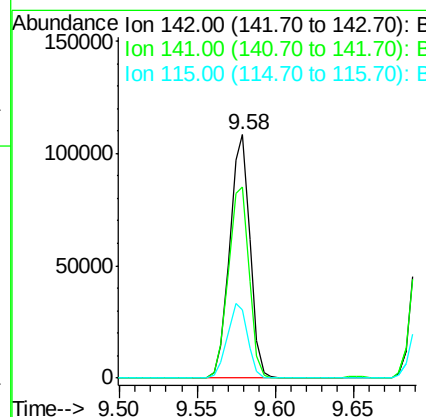
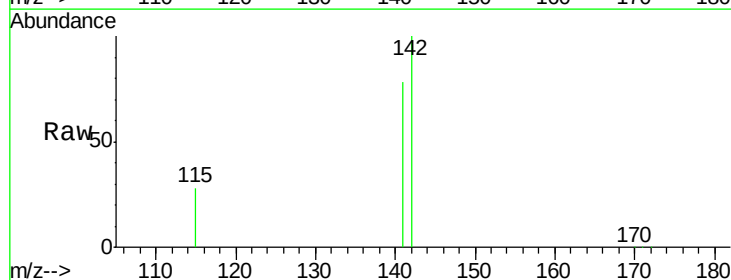
RT: 9.58 min Scan# 1889

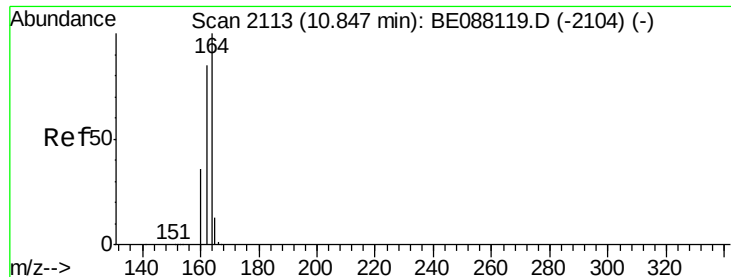
Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion:	142	Resp:	96760
Ion Ratio		Lower	Upper
142	100		
141	78.5	64.6	97.0
115	28.2	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: BE088188.D

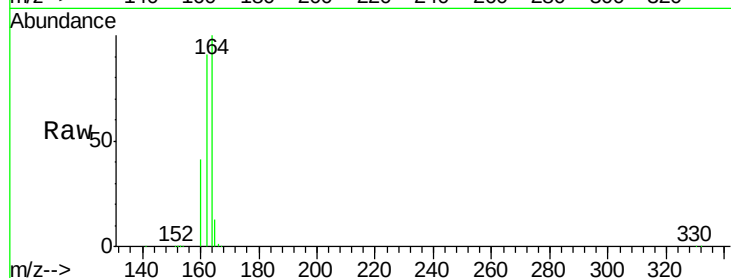
Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

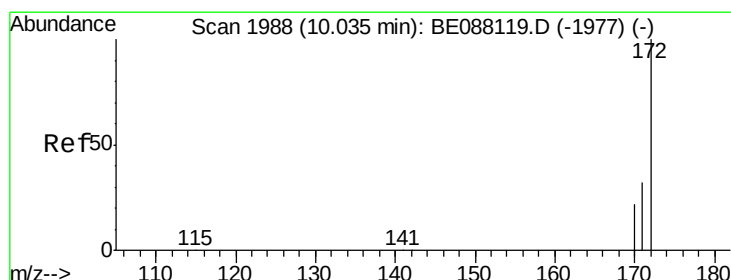
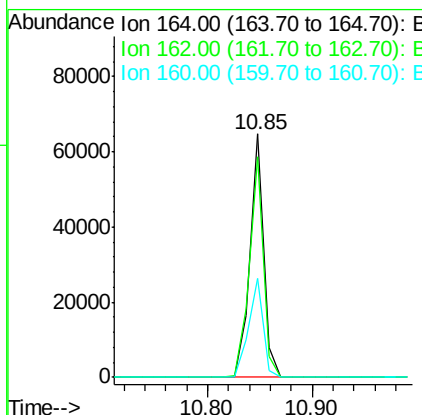
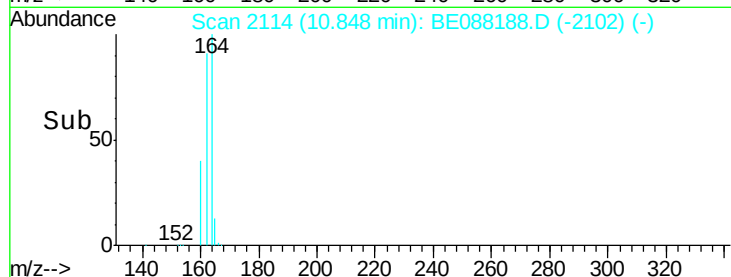
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Tgt Ion:	164	Resp:	58917
Ion Ratio	Lower	Upper	
164	100		
162	90.6	68.3	102.5
160	40.5	28.7	43.1

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#8

2-Fluorobiphenyl

Concen: 6.03 ng

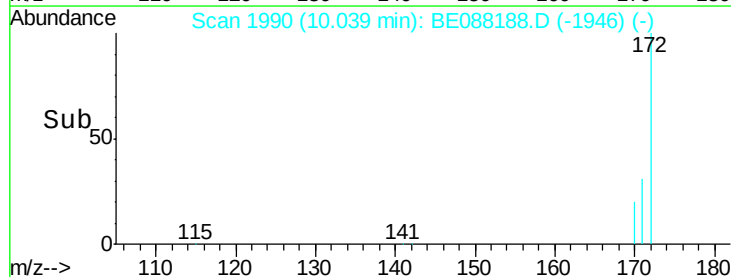
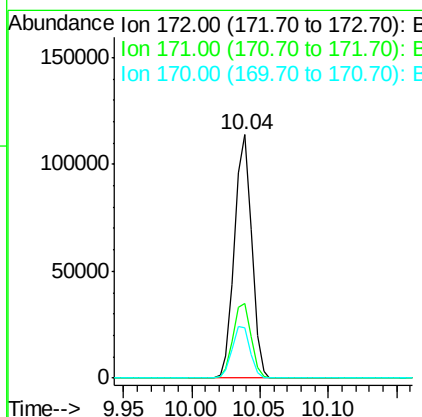
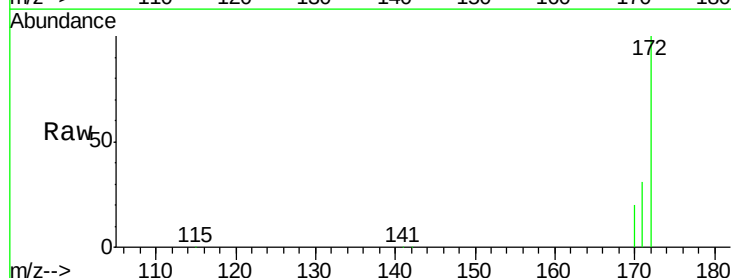
RT: 10.04 min Scan# 1990

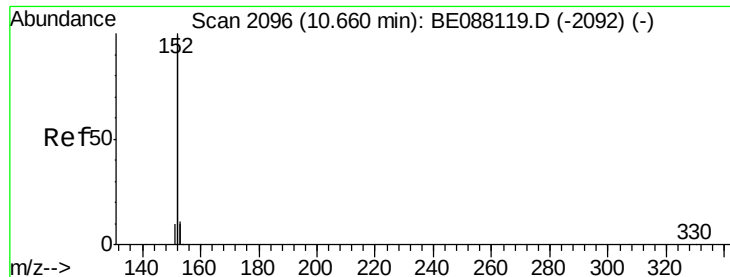
Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion:	172	Resp:	98132
Ion Ratio	Lower	Upper	
172	100		
171	30.9	25.4	38.2
170	20.5	17.4	26.2





#9

Acenaphthylene

Concen: 6.21 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

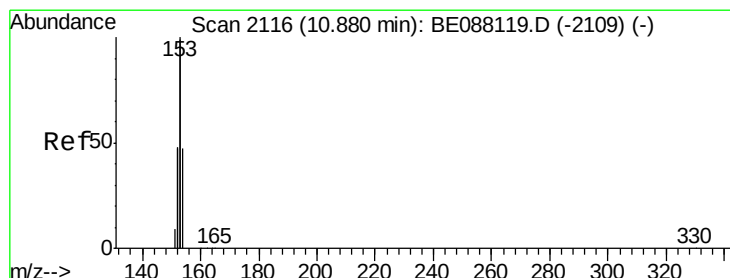
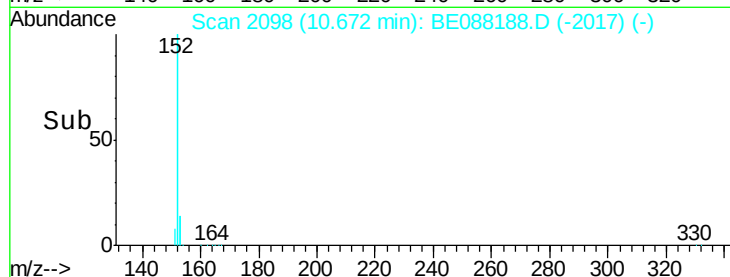
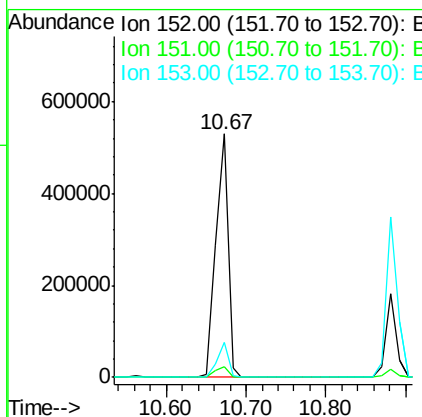
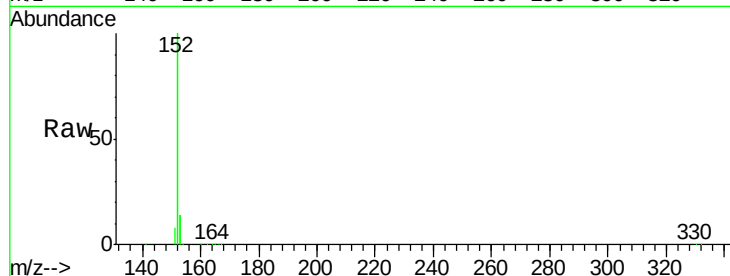
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Tgt Ion:	152	Resp:	557810
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	13.0	10.4	15.6



#10

Acenaphthene

Concen: 5.84 ng

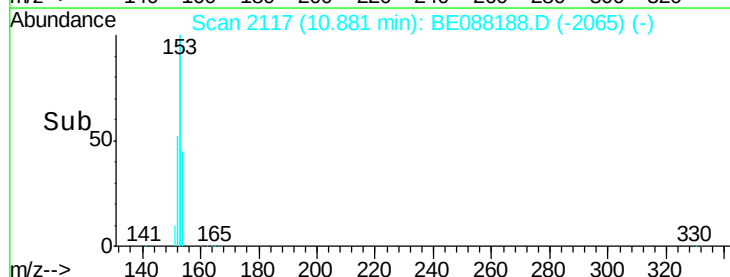
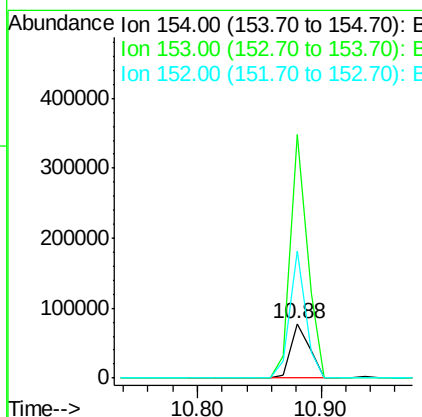
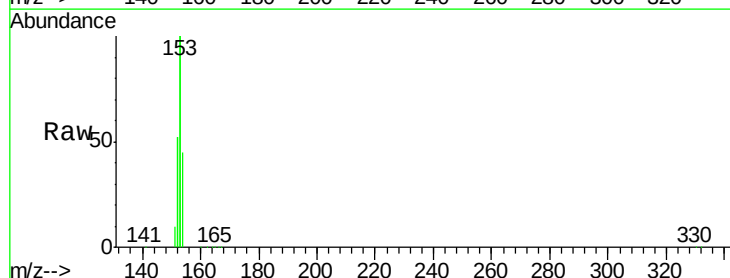
RT: 10.88 min Scan# 2117

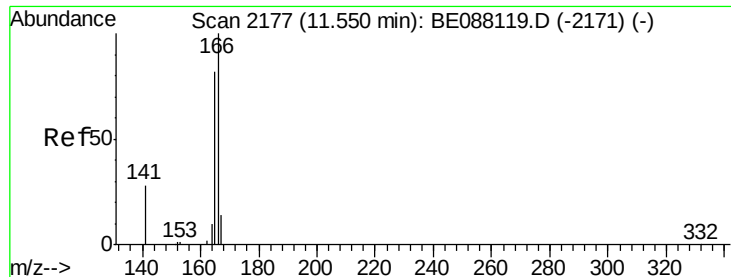
Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion:	154	Resp:	80964
Ion Ratio	Lower	Upper	
154	100		
153	408.3	327.8	491.6
152	198.0	157.6	236.4





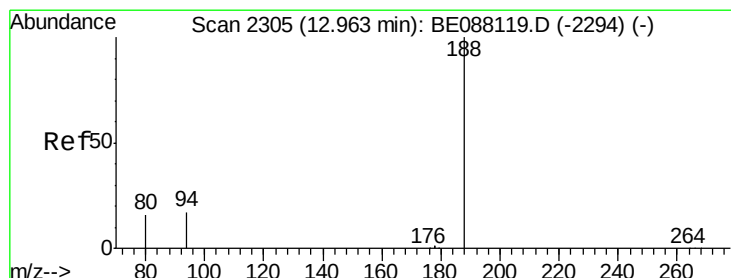
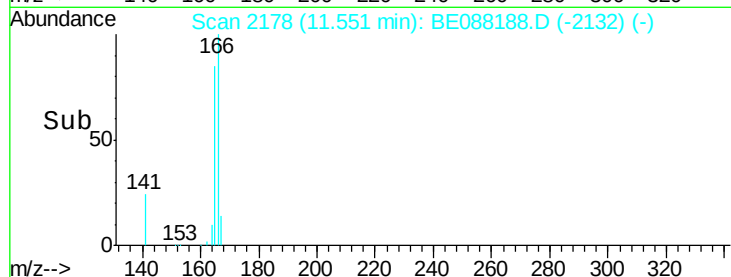
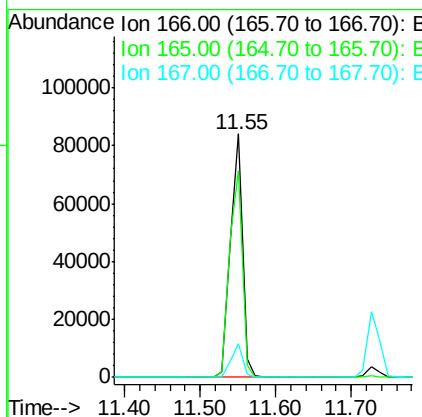
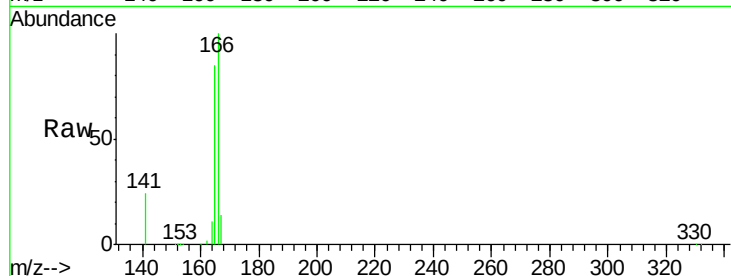
#11
Fluorene
Concen: 6.36 ng
RT: 11.55 min Scan# 2178
Delta R.T. 0.00 min
Lab File: BE088188.D
Acq: 22 Oct 2014 18:50

Instrument :
BNA_E
ClientSampleId :
YS19-SB21-1014MSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.2	71.4	107.2
167	13.5	10.6	16.0

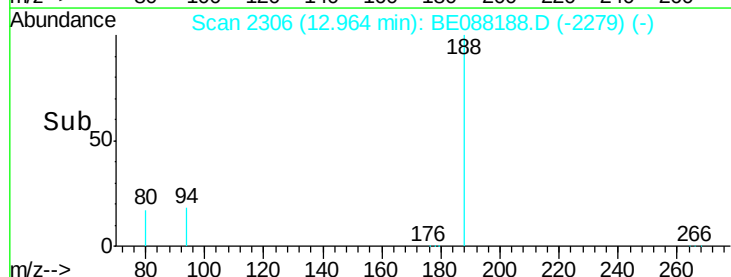
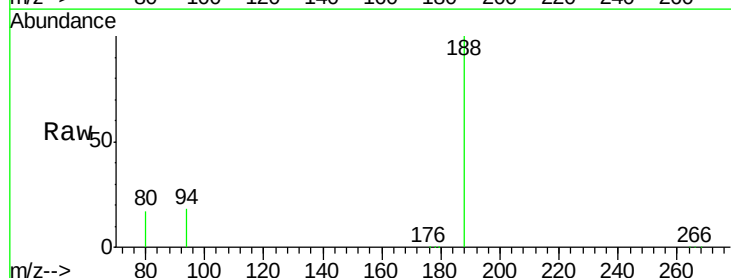
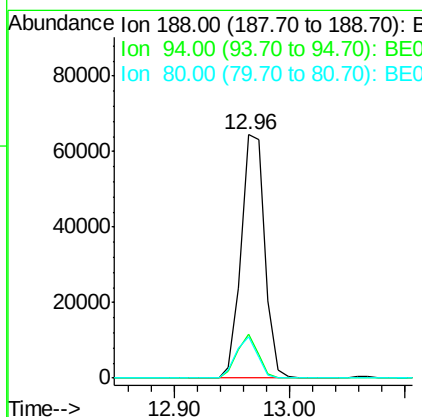
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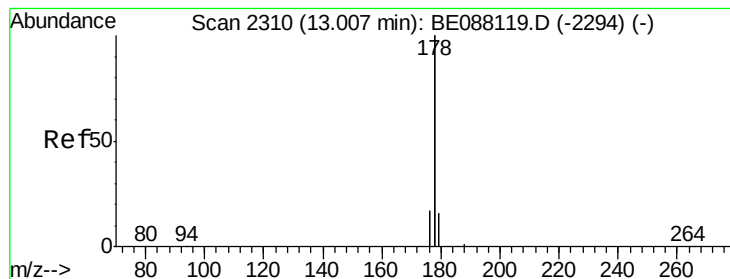
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#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088188.D
Acq: 22 Oct 2014 18:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.9	13.9	20.9
80	17.1	12.9	19.3





#13

Phenanthrene

Concen: 7.96 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088188.D

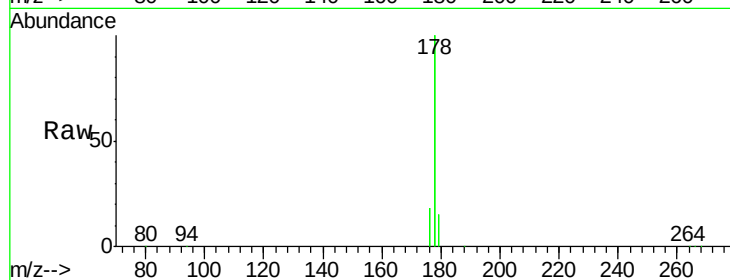
Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

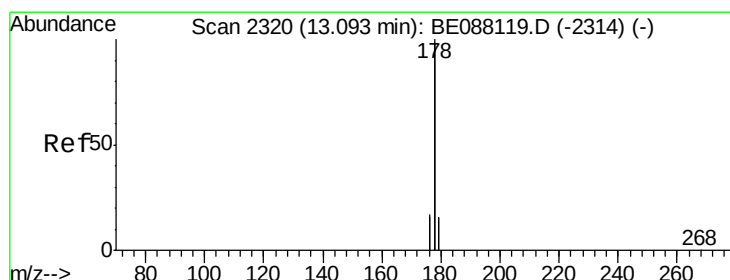
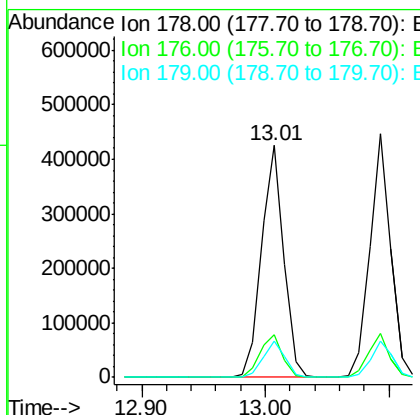
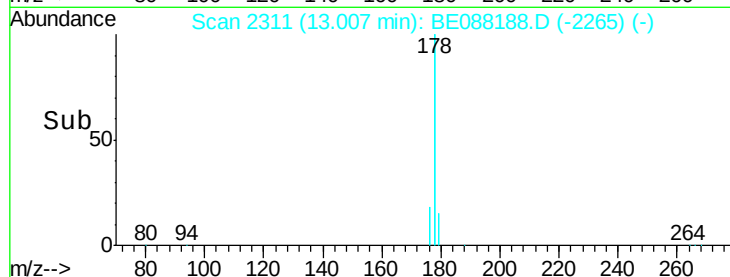
YS19-SB21-1014MSD



Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	12.5	18.7
179	15.2	13.5	20.3

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#14

Anthracene

Concen: 7.37 ng

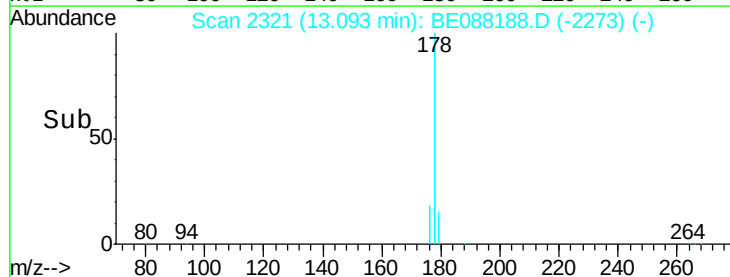
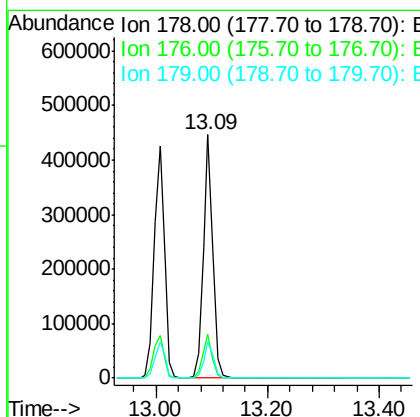
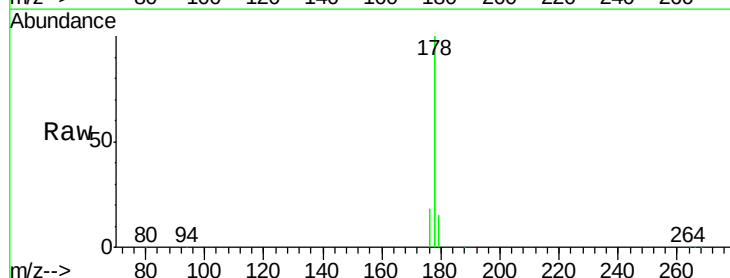
RT: 13.09 min Scan# 2321

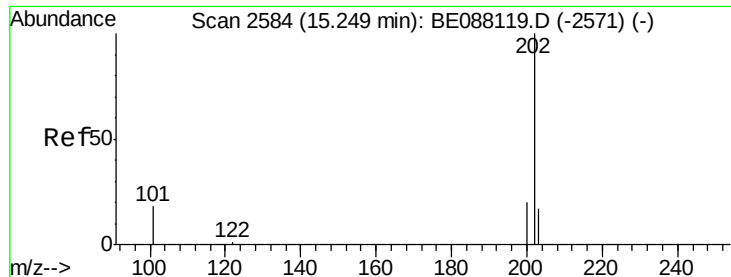
Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	14.9	12.5	18.7





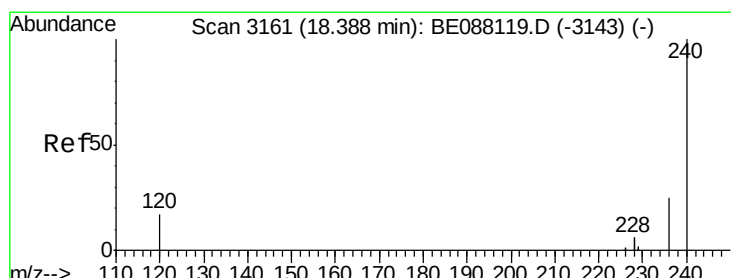
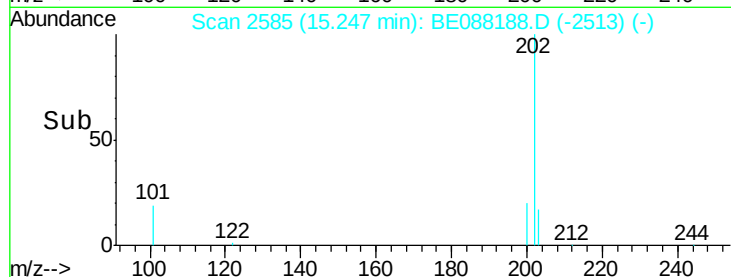
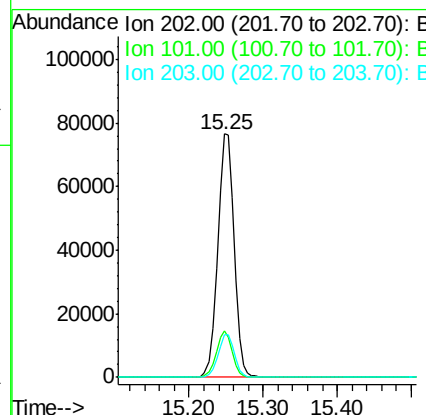
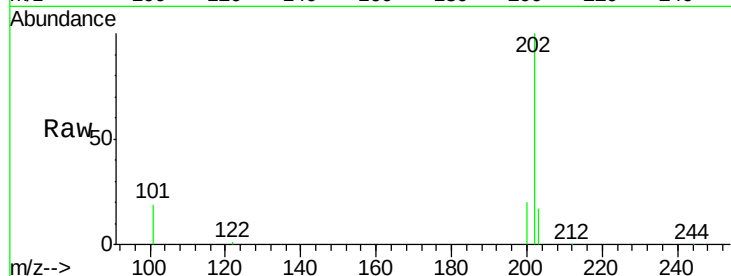
#15
Fluoranthene
 Concen: 6.80 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088188.D
 Acq: 22 Oct 2014 18:50

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MSD

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	118964		
101	18.2	14.8	22.2	
203	17.3	13.5	20.3	

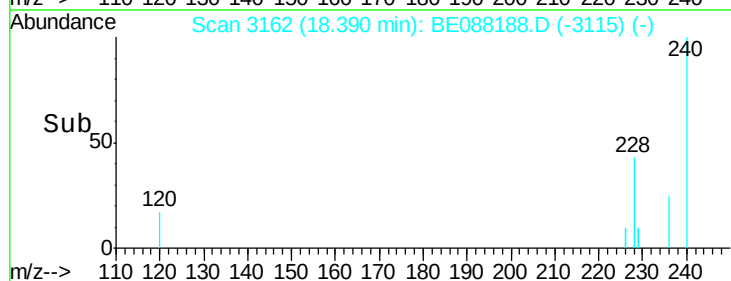
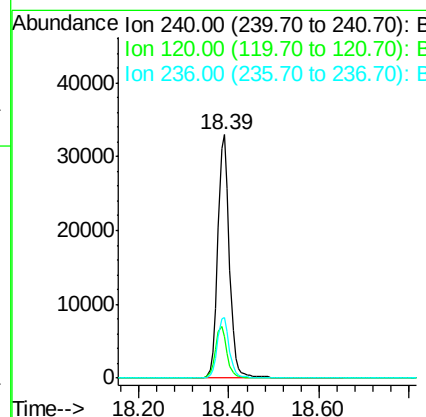
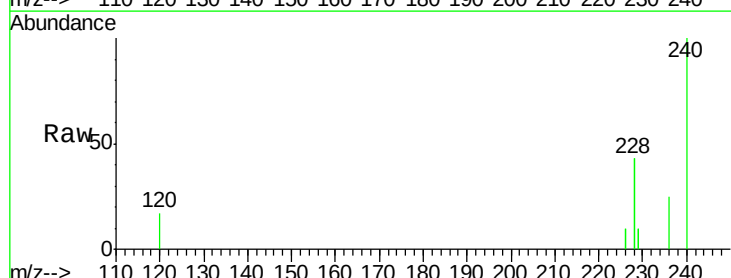
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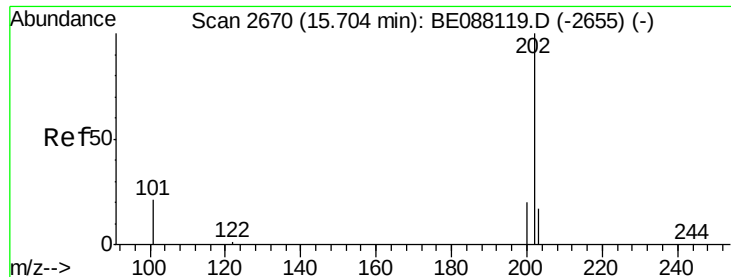
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#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3162
 Delta R.T. 0.00 min
 Lab File: BE088188.D
 Acq: 22 Oct 2014 18:50

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	58599		
120	17.2	13.9	20.9	
236	25.0	19.9	29.9	





#17

Pyrene

Concen: 7.53 ng

RT: 15.71 min Scan# 2672

Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

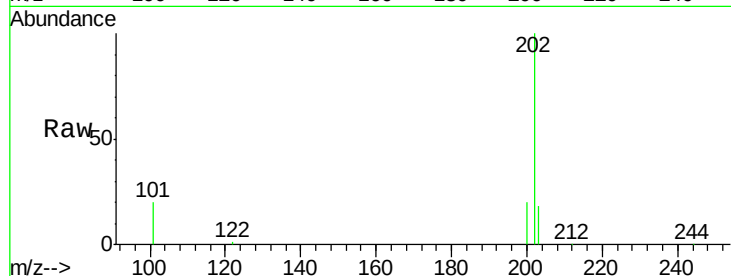
ClientSampleId :

YS19-SB21-1014MSD

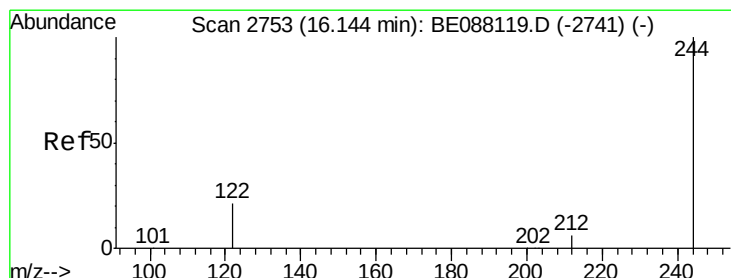
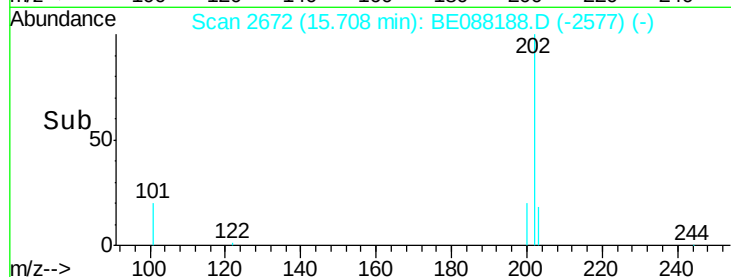
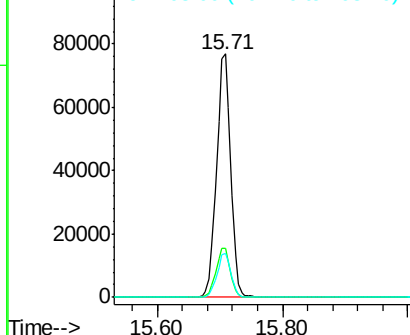
Tgt Ion:	202	Resp:	119949
Ion Ratio		Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.9	13.9	20.9

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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: 8.15 ng

RT: 16.15 min Scan# 2755

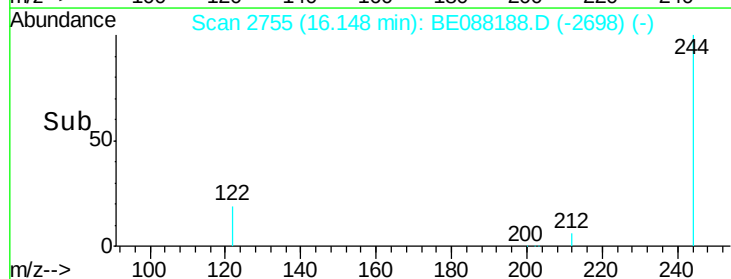
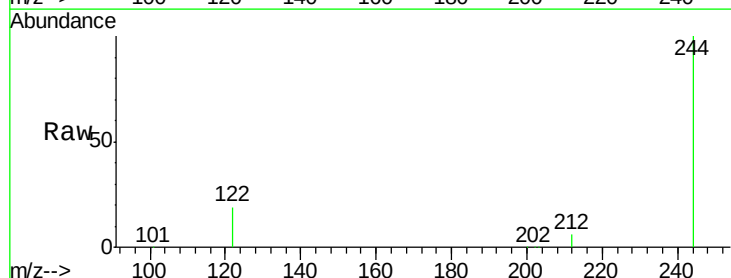
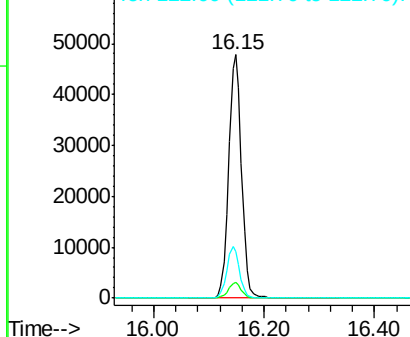
Delta R.T. 0.00 min

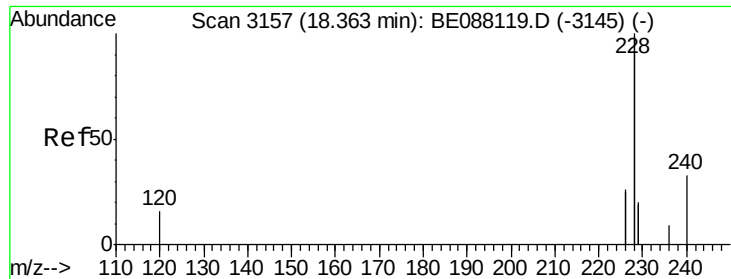
Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion:	244	Resp:	76886
Ion Ratio		Lower	Upper
244	100		
212	6.4	5.4	8.0
122	19.2	17.5	26.3

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: 6.44 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

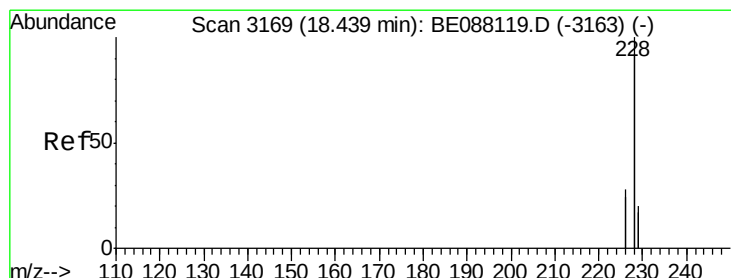
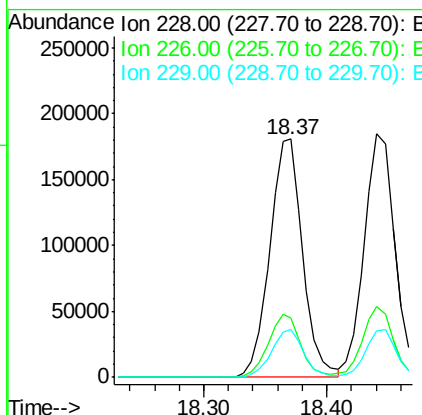
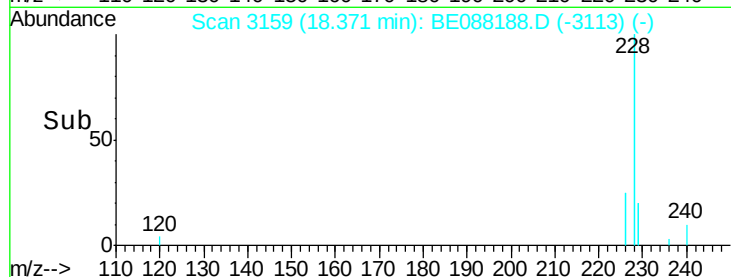
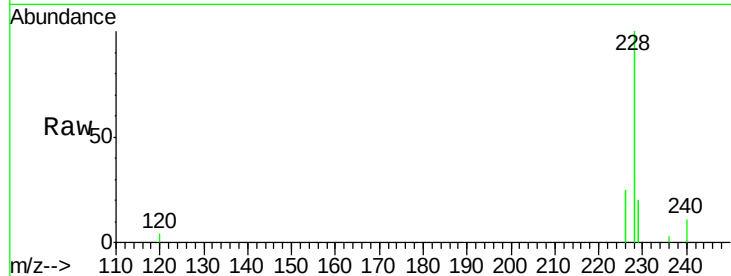
ClientSampleId :

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Tgt	Ion	Ratio	Lower	Upper
228	100			
226	24.9	20.8	31.2	
229	20.0	15.6	23.4	



#20

Chrysene

Concen: 6.29 ng

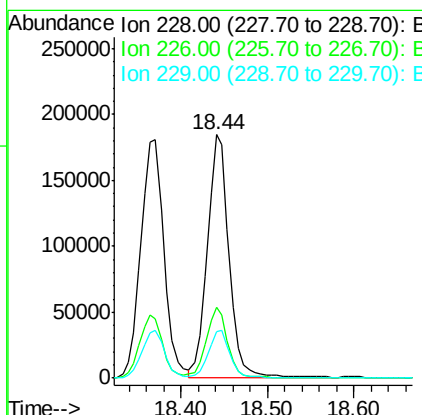
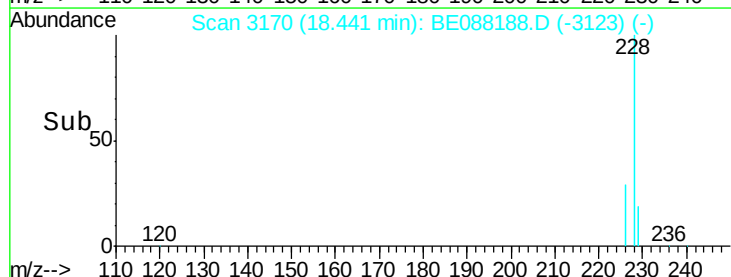
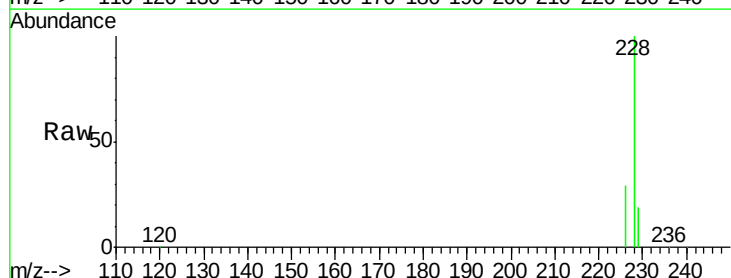
RT: 18.44 min Scan# 3170

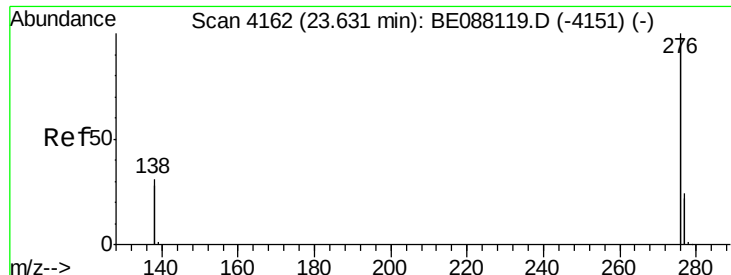
Delta R.T. 0.00 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

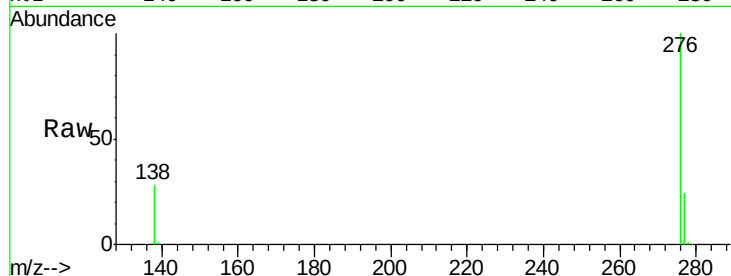
Tgt	Ion	Ratio	Lower	Upper
228	100			
226	29.3	22.7	34.1	
229	19.2	15.8	23.6	





#21
 Indeno(1,2,3-cd)pyrene
 Concen: 6.60 ng m
 RT: 23.64 min Scan# 4165
 Delta R.T. 0.01 min
 Lab File: BE088188.D
 Acq: 22 Oct 2014 18:50

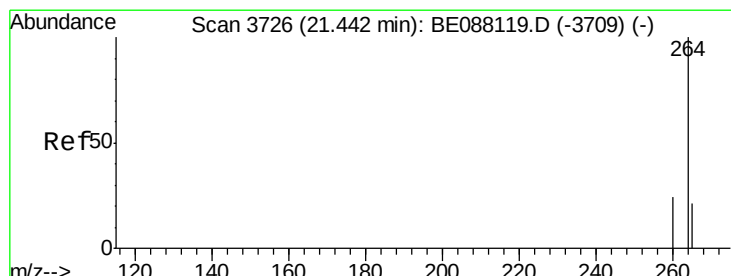
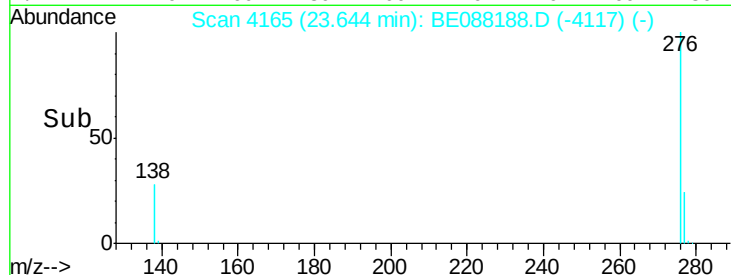
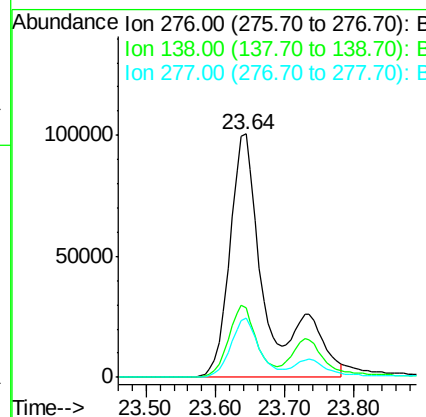
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB21-1014MSD



Tgt Ion	Ratio	Resp	Lower	Upper
276	100	375034		
138	22.4	18.5	27.7	
277	18.3	14.6	21.8	

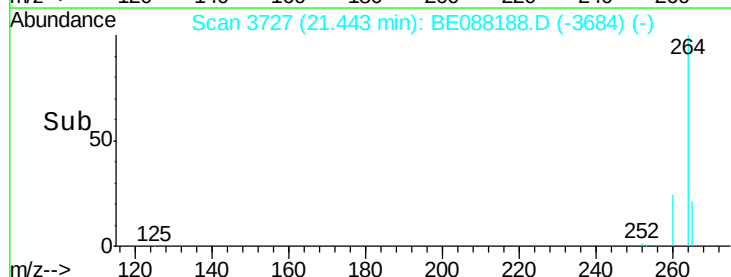
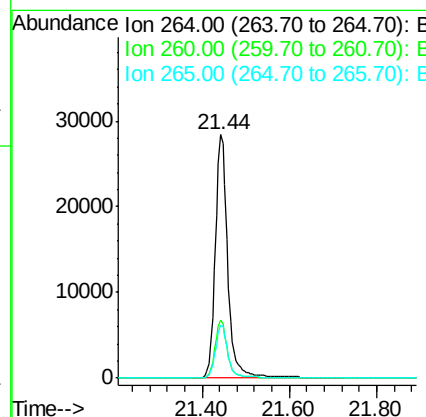
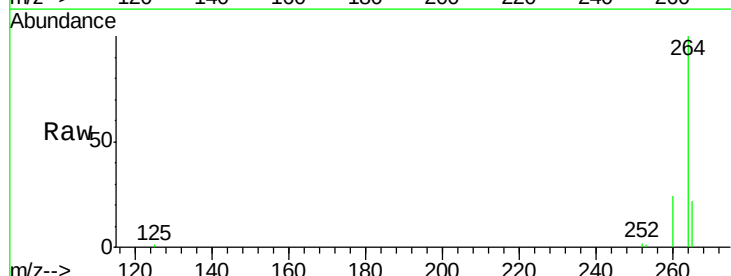
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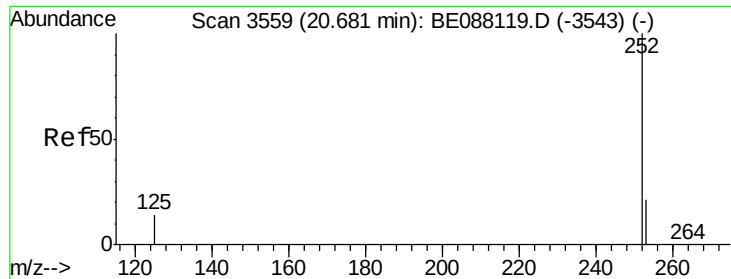
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#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088188.D
 Acq: 22 Oct 2014 18:50

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	55023		
260	23.8	19.0	28.4	
265	21.6	17.2	25.8	





#23

Benzo(b)fluoranthene

Concen: 6.16 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088188.D

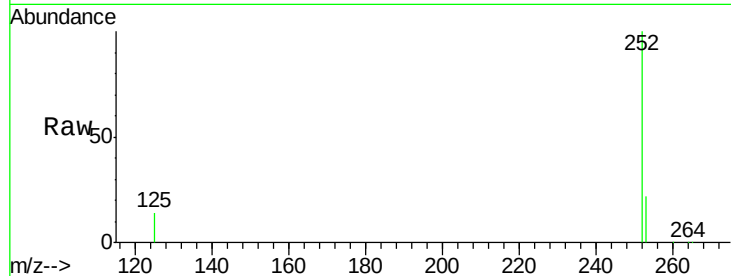
Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

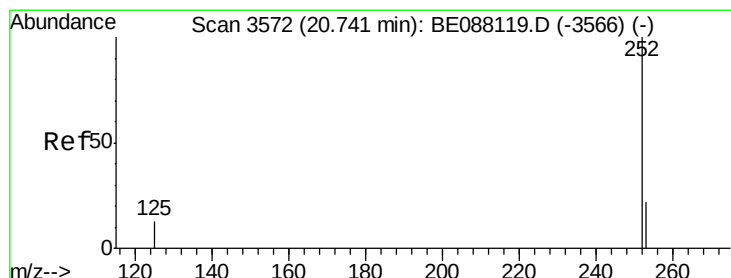
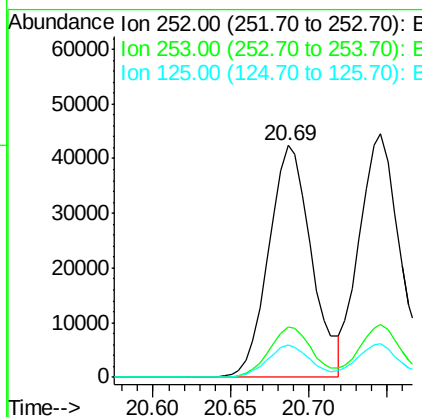
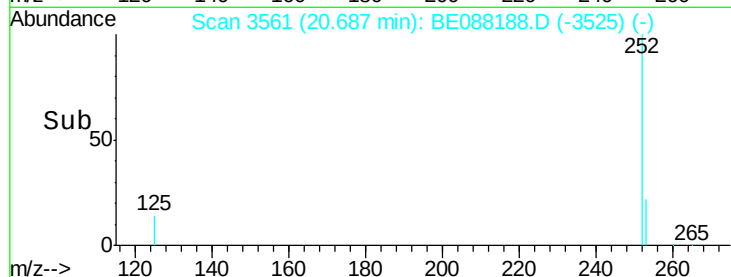
YS19-SB21-1014MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	13.9	11.8	17.8

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#24

Benzo(k)fluoranthene

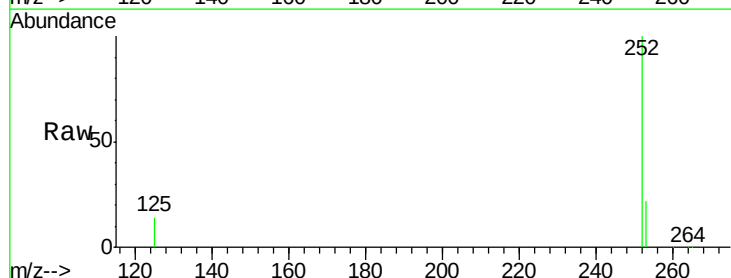
Concen: 5.97 ng

RT: 20.75 min Scan# 3574

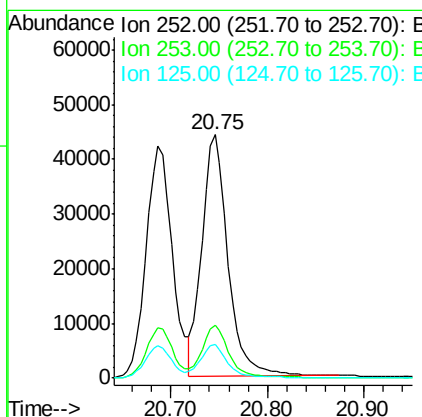
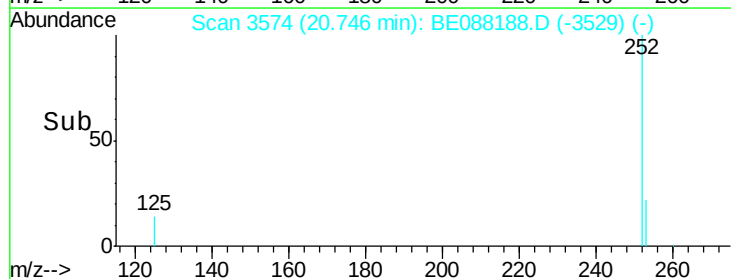
Delta R.T. 0.01 min

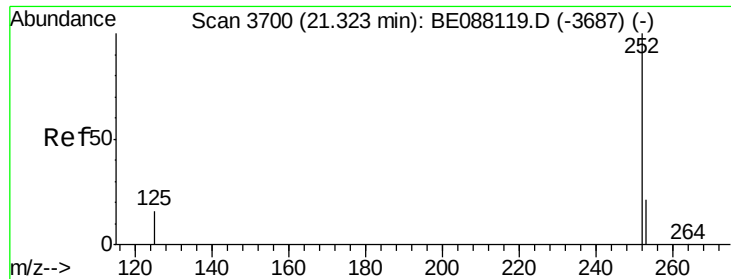
Lab File: BE088188.D

Acq: 22 Oct 2014 18:50



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	13.7	11.5	17.3





#25

Benzo(a)pyrene

Concen: 6.50 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.01 min

Lab File: BE088188.D

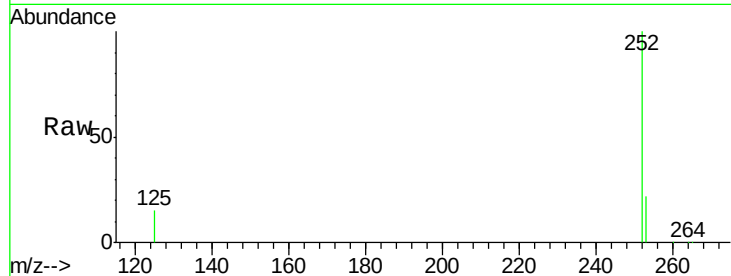
Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

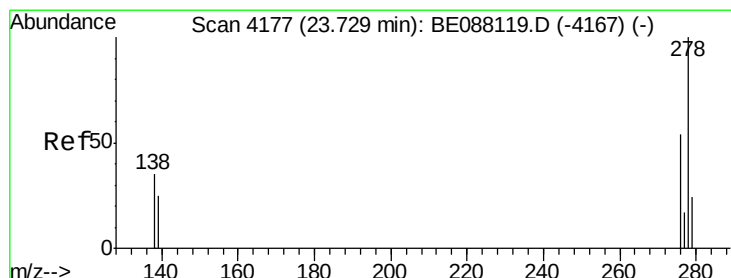
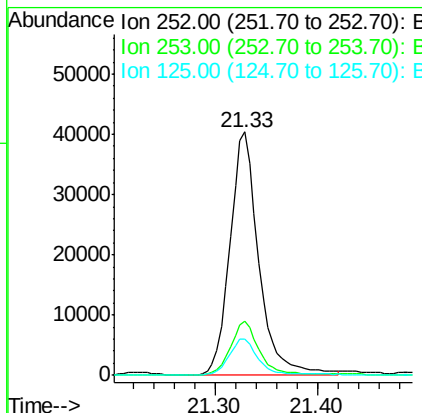
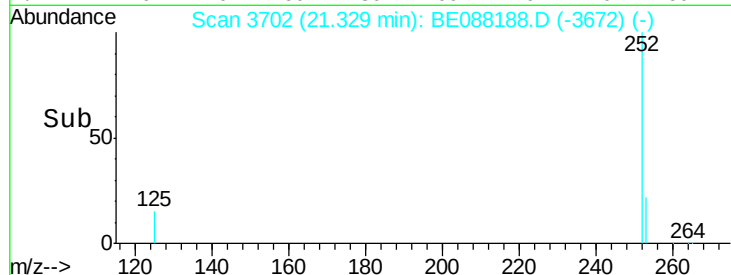
YS19-SB21-1014MSD



Tgt Ion:	252	Resp:	78367
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.5	26.3
125	15.1	13.0	19.6

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#26

Dibenzo(a,h)anthracene

Concen: 6.39 ng

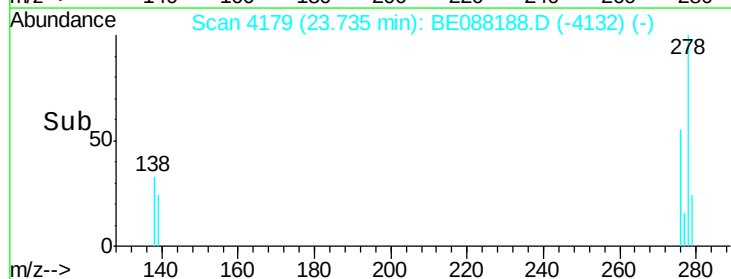
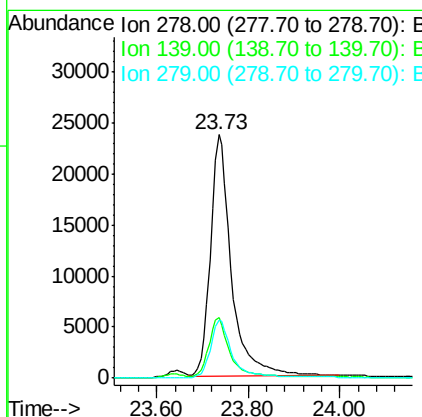
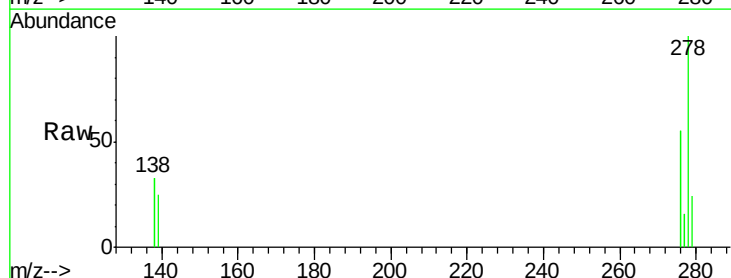
RT: 23.73 min Scan# 4179

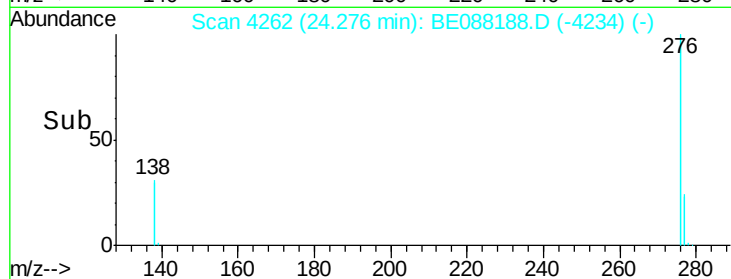
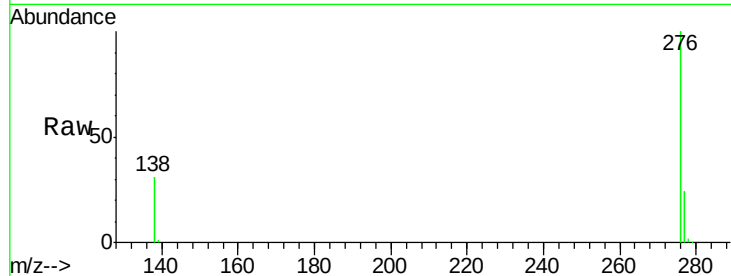
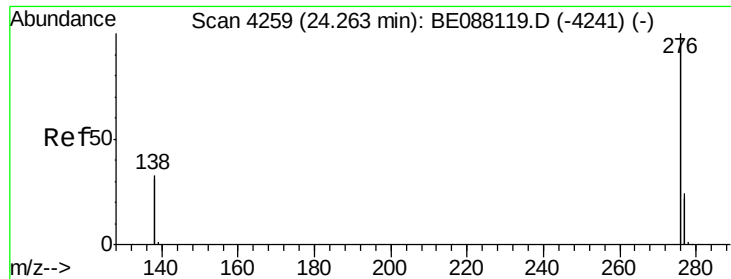
Delta R.T. 0.01 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Tgt Ion:	278	Resp:	75642
Ion Ratio	Lower	Upper	
278	100		
139	24.6	20.9	31.3
279	23.8	19.8	29.8





#27

Benzo(g,h,i)perylene

Concen: 6.45 ng

RT: 24.28 min Scan# 4262

Delta R.T. 0.01 min

Lab File: BE088188.D

Acq: 22 Oct 2014 18:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB21-1014MSD

Tgt Ion: 276 Resp: 337308

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 31.1 26.6 40.0

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