

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088460.D
 Acq On : 1 Nov 2014 20:22
 Operator : TP/JJ
 Sample : F4368-10MSD
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014MSD

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:40 AM

Quant Time: Nov 02 04:53:23 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	27937	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	107747	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	51163	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	99450	5.00	ng	0.00
16) Chrysene-d12	18.33	240	58235	5.00	ng	0.02
22) Perylene-d12	21.40	264	59671	5.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	74017	9.37	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	121674	8.44	ng	0.00
18) Terphenyl-d14	16.08	244	92358	8.63	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.30	88	34983	9.57	ng	99
5) Naphthalene	8.67	128	207660	9.31	ng	100
6) 2-Methylnaphthalene	9.53	142	133108	9.64	ng	98
9) Acenaphthylene	10.62	152	711339	8.58	ng	99
10) Acenaphthene	10.84	154	106813	8.69	ng	96
11) Fluorene	11.49	166	117177	8.99	ng	98
13) Phenanthrene	12.95	178	874742	9.68	ng	99
14) Anthracene	13.03	178	703865	9.65	ng	99
15) Fluoranthene	15.19	202	171471	11.69	ng	99
17) Pyrene	15.65	202	176869	9.31	ng	99
19) Benzo(a)anthracene	18.31	228	598267	10.91	ng	99
20) Chrysene	18.39	228	526366	9.78	ng	98
21) Indeno(1,2,3-cd)pyrene	23.60	276	655581m	13.07	ng	
23) Benzo(b)fluoranthene	20.64	252	143527	10.97	ng	99
24) Benzo(k)fluoranthene	20.70	252	138862	9.64	ng	99
25) Benzo(a)pyrene	21.28	252	136759	10.89	ng	99
26) Dibenzo(a,h)anthracene	23.68	278	129182	11.07	ng	99
27) Benzo(g,h,i)perylene	24.24	276	560870	10.48	ng	96

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

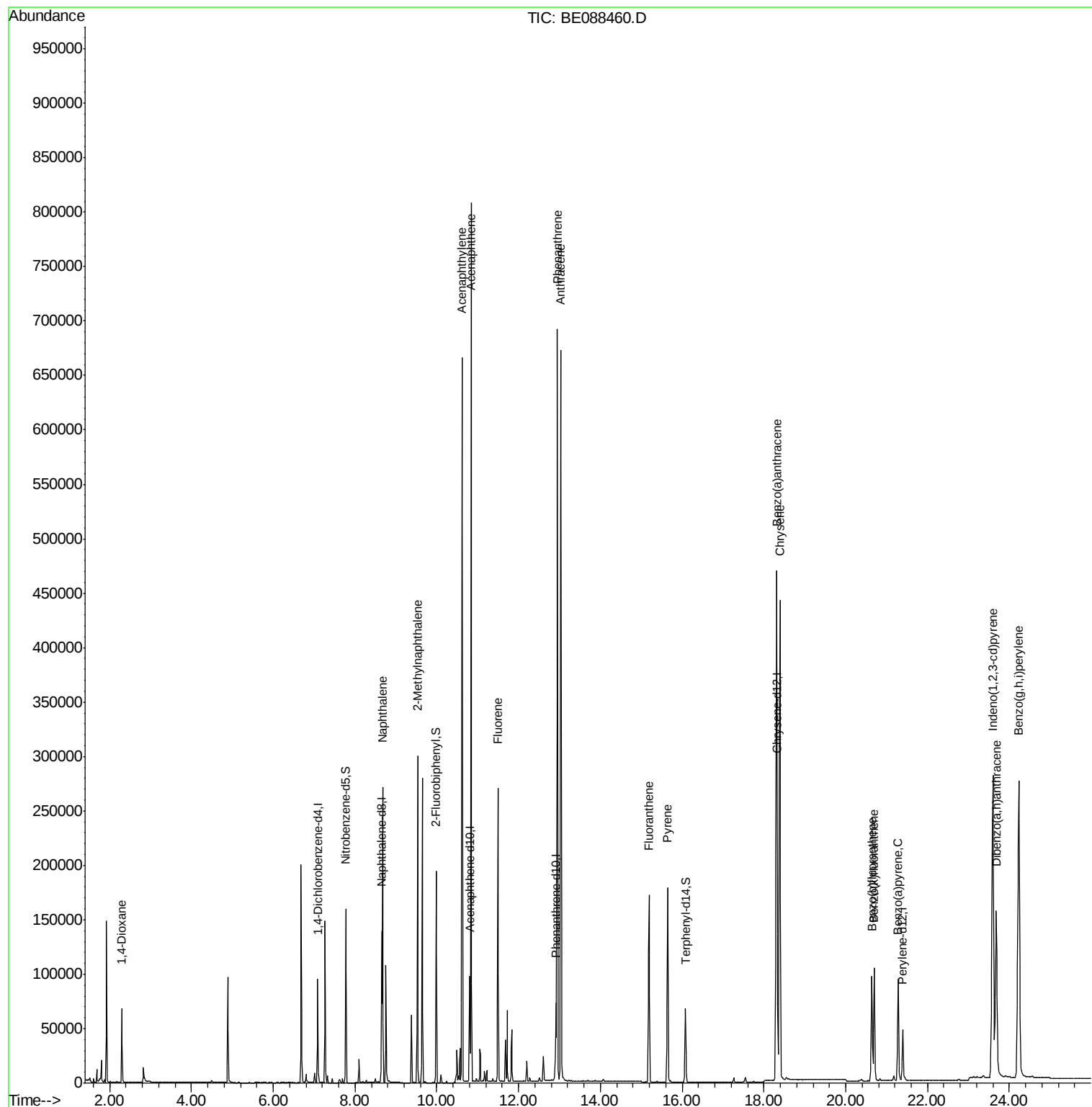
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QLast Update : Sat Nov 01 00:42:07 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE088460.D

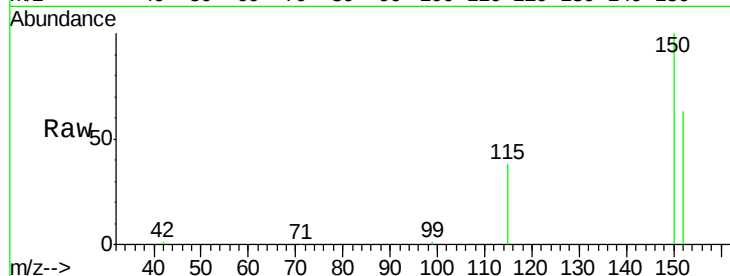
Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MSD



Tgt Ion: 152 Resp: 27937

Ion Ratio Lower Upper

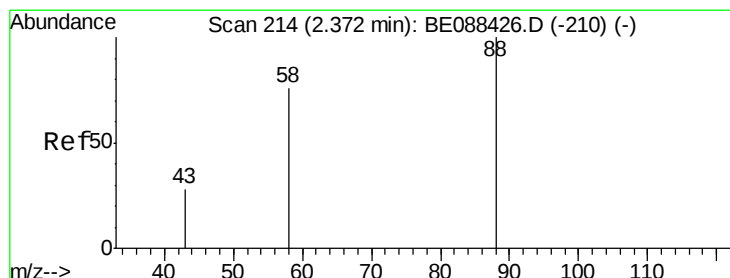
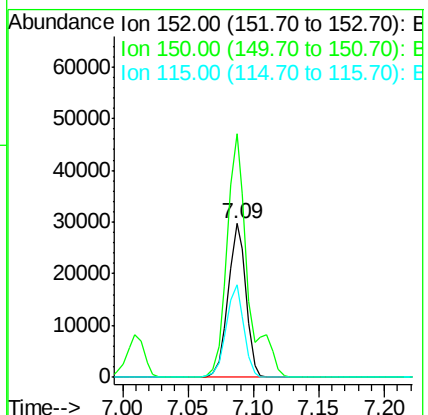
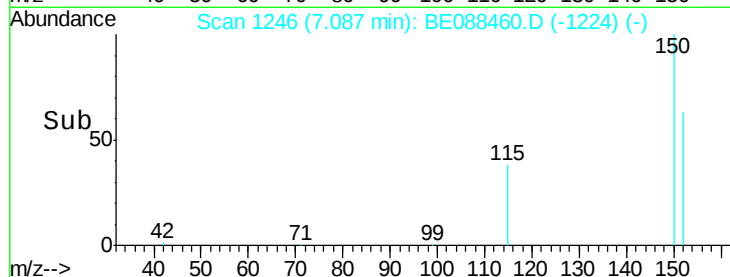
152 100

150 158.6 121.8 182.8

115 60.1 43.9 65.9

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#2

1,4-Dioxane

Concen: 9.57 ng

RT: 2.30 min Scan# 198

Delta R.T. -0.07 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

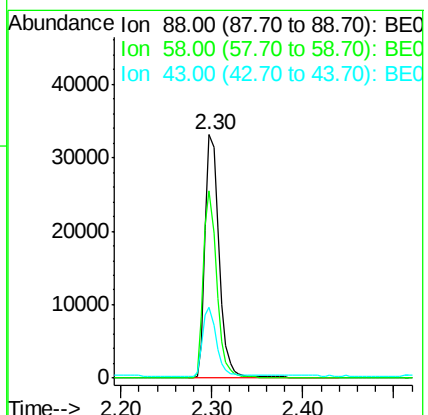
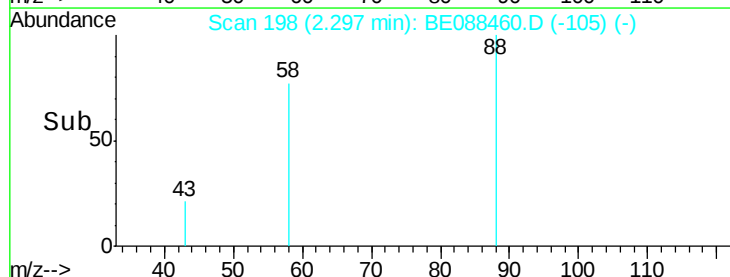
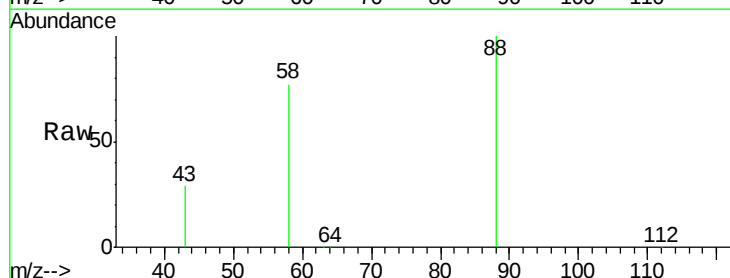
Tgt Ion: 88 Resp: 34983

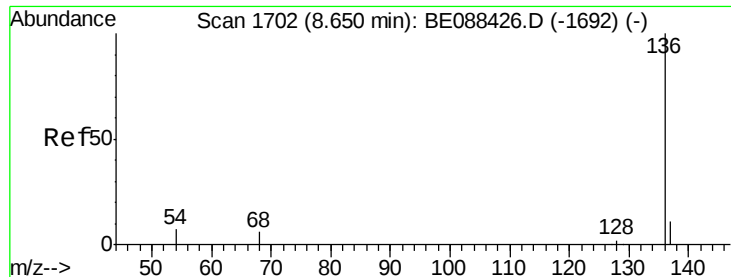
Ion Ratio Lower Upper

88 100

58 74.5 59.1 88.7

43 28.2 21.9 32.9





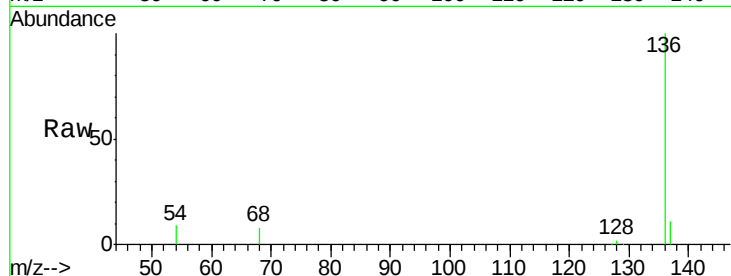
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1701
Delta R.T. -0.00 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014MSD

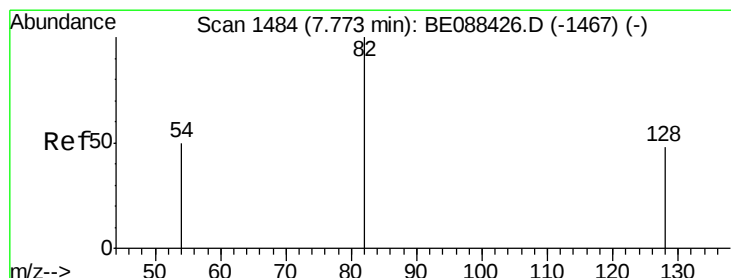
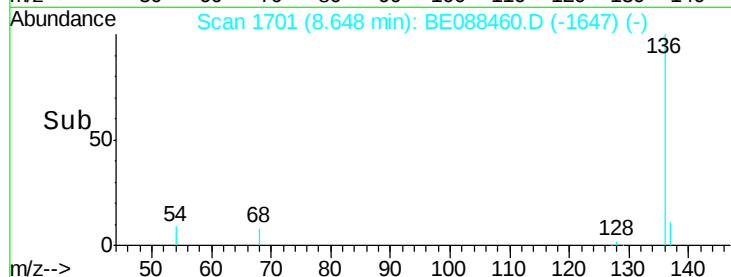
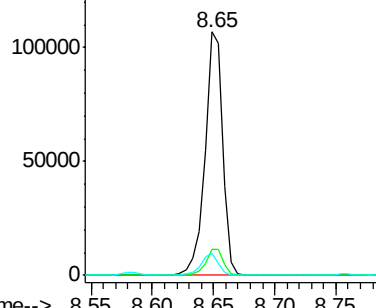
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	107747		
137	10.6	8.8	13.2	
54	9.4	5.3	7.9	

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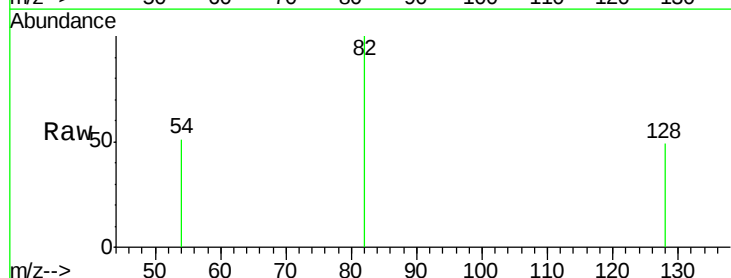


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

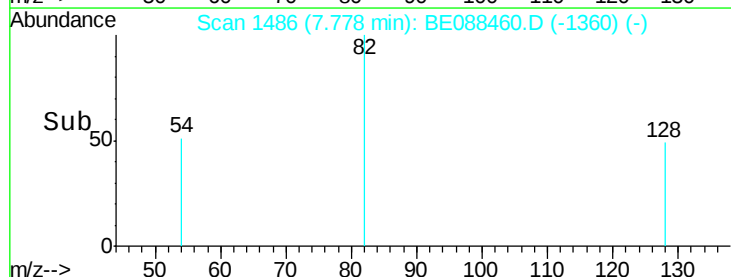
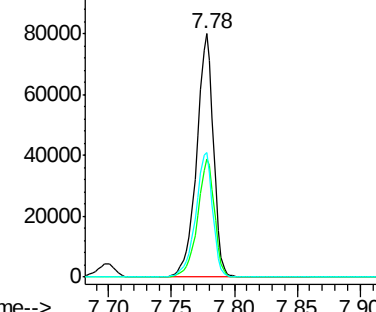


#4
Nitrobenzene-d5
Concen: 9.37 ng
RT: 7.78 min Scan# 1486
Delta R.T. 0.01 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	74017		
128	48.6	38.4	57.6	
54	51.1	40.2	60.2	



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 9.31 ng

RT: 8.67 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

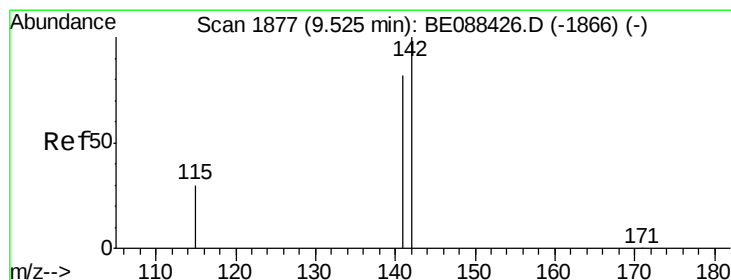
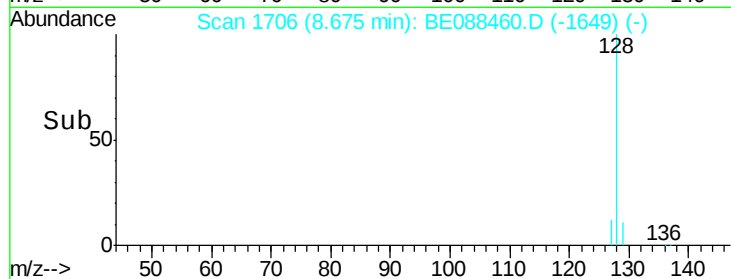
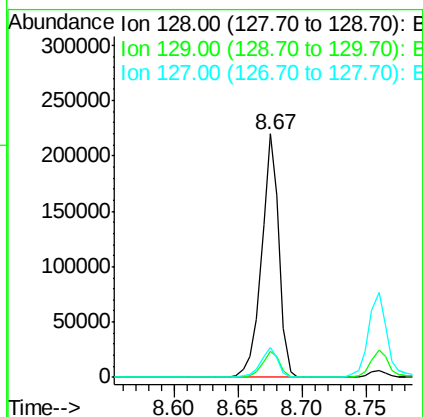
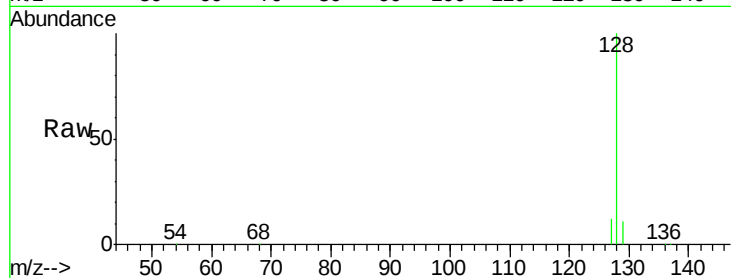
ClientSampleId :

YS19-SB40-1014MSD

Tgt Ion:	128	Resp:	207660
Ion Ratio		Lower	Upper
128	100		
129	10.8	8.6	12.8
127	12.4	10.1	15.1

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#6

2-Methylnaphthalene

Concen: 9.64 ng

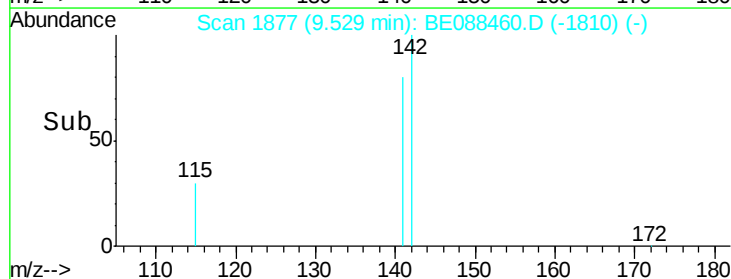
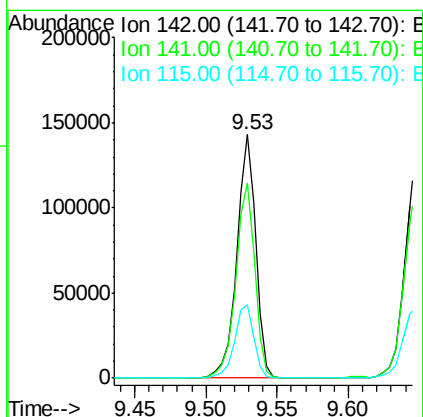
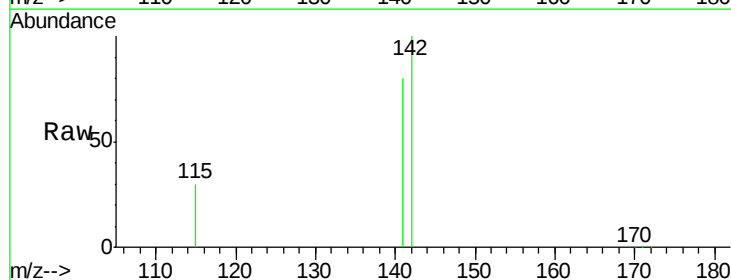
RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion:	142	Resp:	133108
Ion Ratio		Lower	Upper
142	100		
141	80.2	65.8	98.8
115	30.0	24.2	36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2109

Delta R.T. 0.01 min

Lab File: BE088460.D

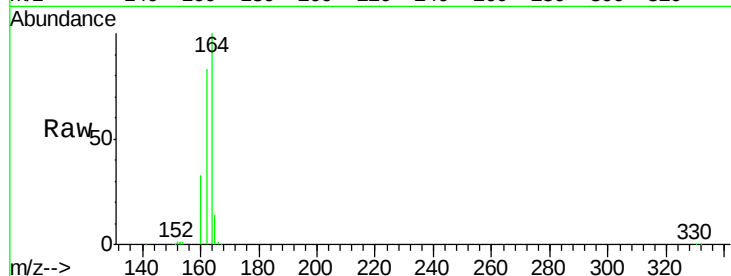
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Instrument :

BNA_E

ClientSampleId :

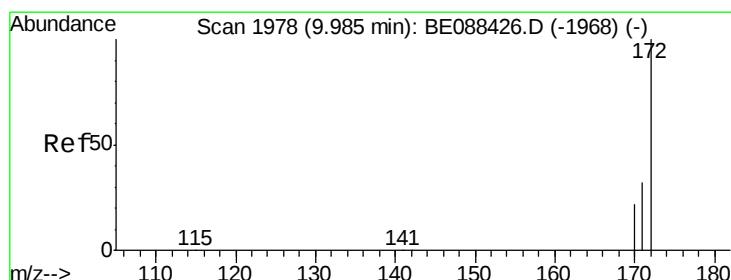
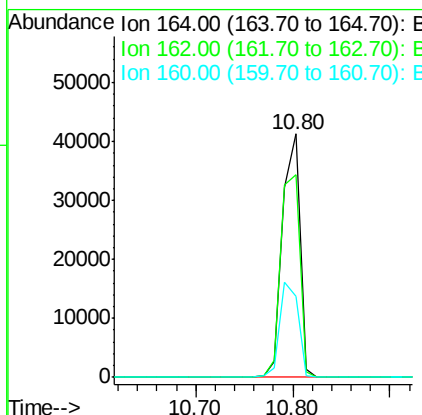
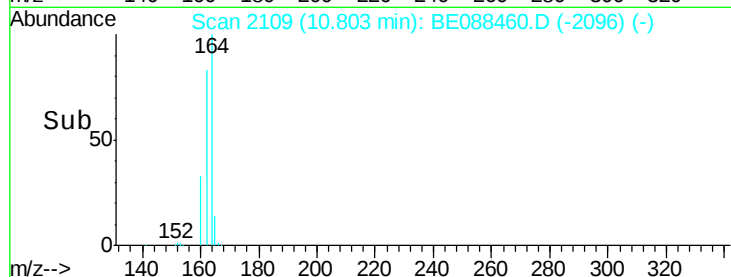
YS19-SB40-1014MSD



Tgt Ion:	164	Resp:	51163
Ion Ratio	Lower	Upper	
164	100		
162	83.0	77.0	115.4
160	33.2	36.8	55.2#

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#8

2-Fluorobiphenyl

Concen: 8.44 ng

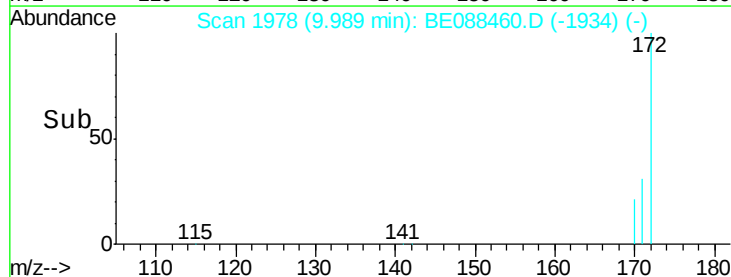
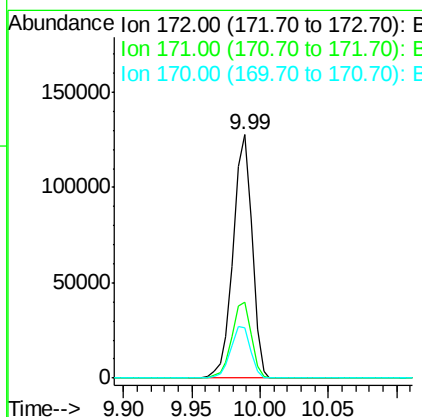
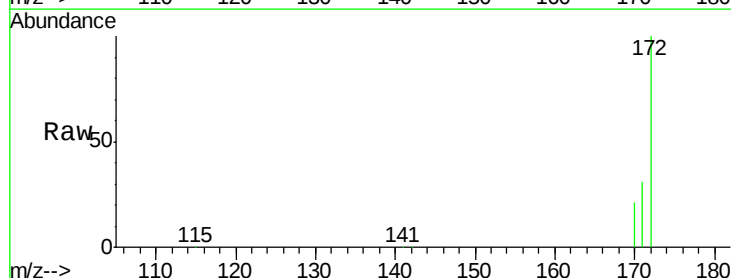
RT: 9.99 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion:	172	Resp:	121674
Ion Ratio	Lower	Upper	
172	100		
171	31.3	26.0	39.0
170	20.6	17.6	26.4





#9

Acenaphthylene

Concen: 8.58 ng

RT: 10.62 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

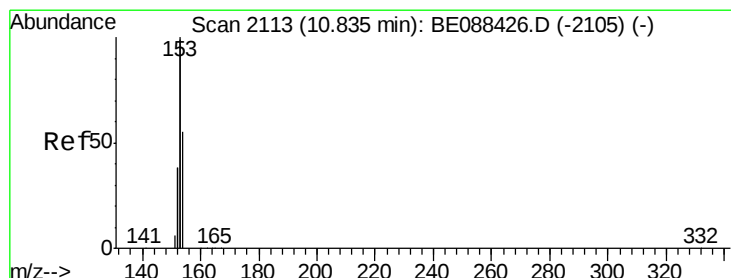
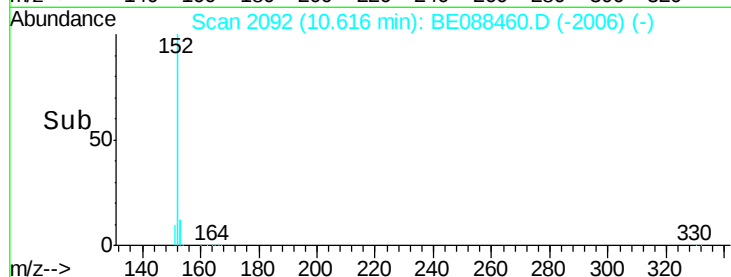
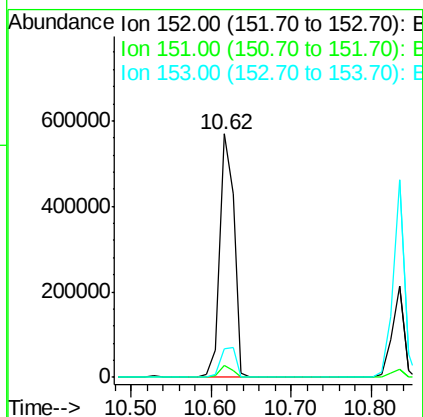
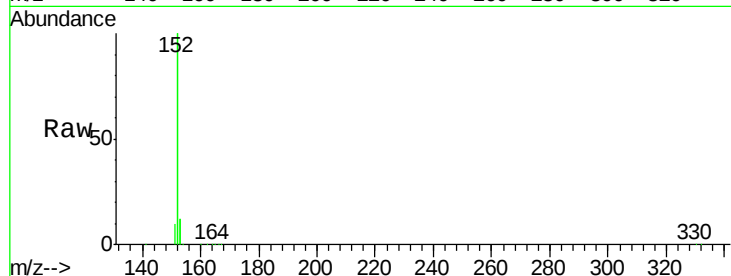
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.6	4.4	6.6
153	13.3	10.5	15.7



#10

Acenaphthene

Concen: 8.69 ng

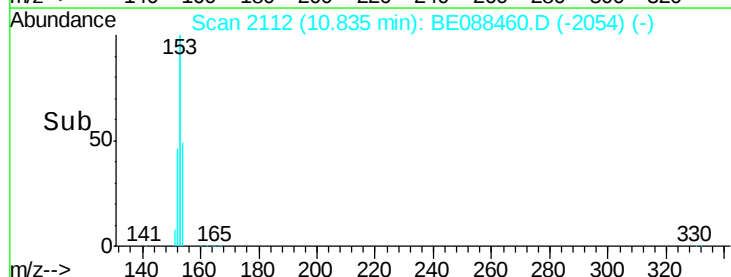
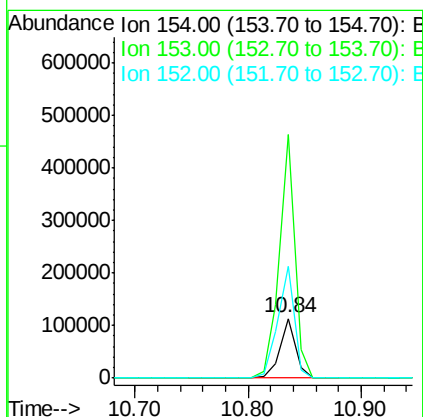
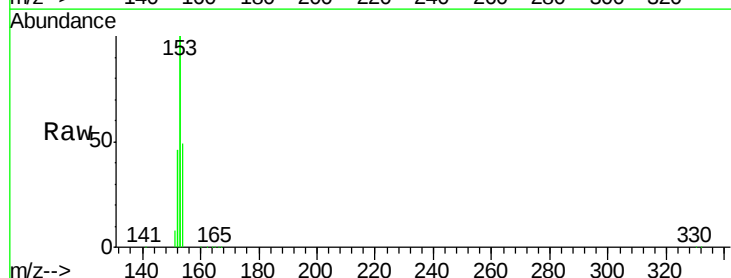
RT: 10.84 min Scan# 2112

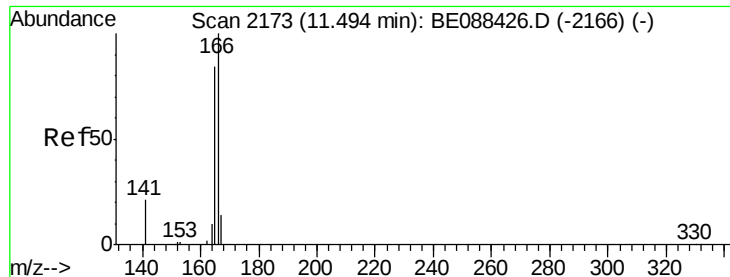
Delta R.T. 0.00 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Lower	Upper
154	100		
153	414.4	324.3	486.5
152	200.6	154.9	232.3





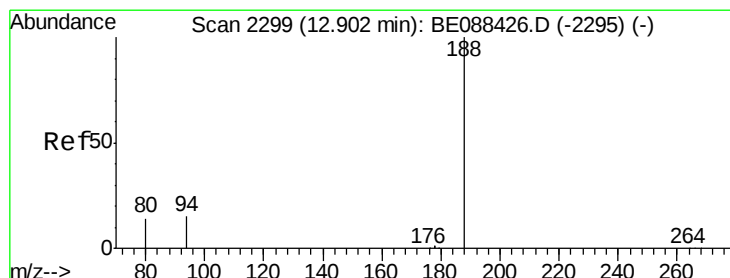
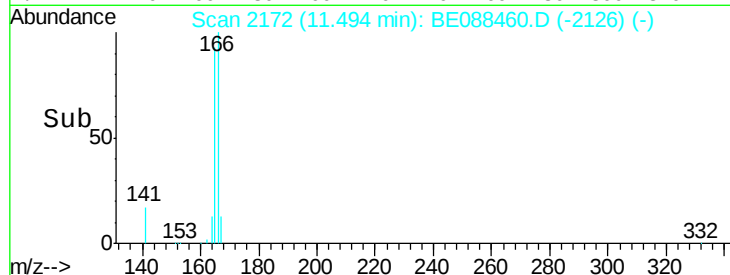
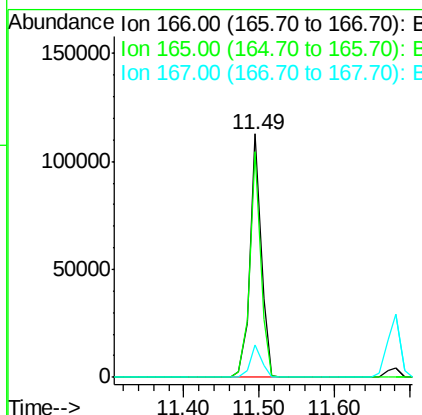
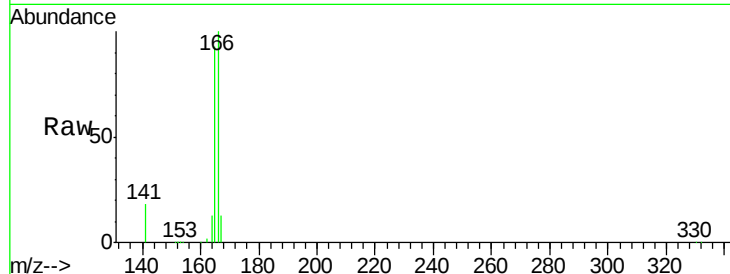
#11
Fluorene
 Concen: 8.99 ng
 RT: 11.49 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: BE088460.D
 Acq: 1 Nov 2014 20:22

Instrument :
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 YS19-SB40-1014MSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.9	71.3	106.9
167	13.5	10.7	16.1

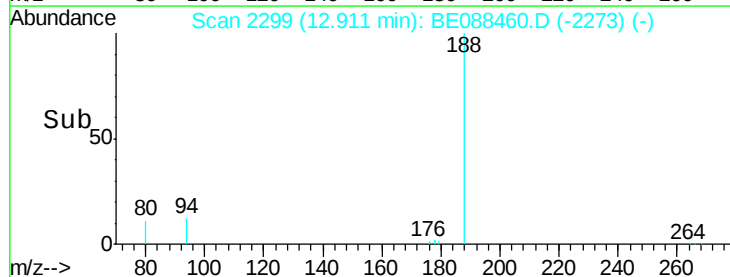
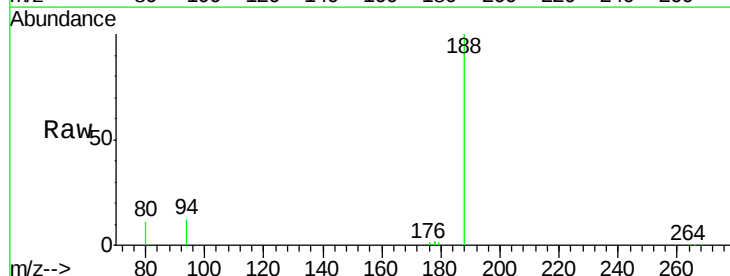
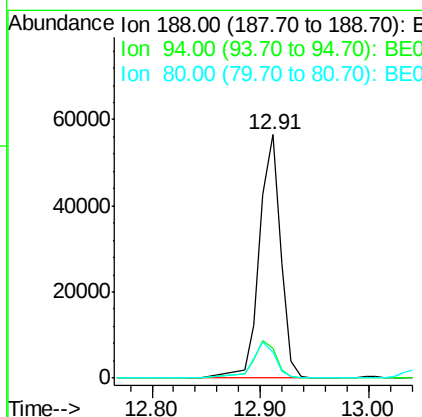
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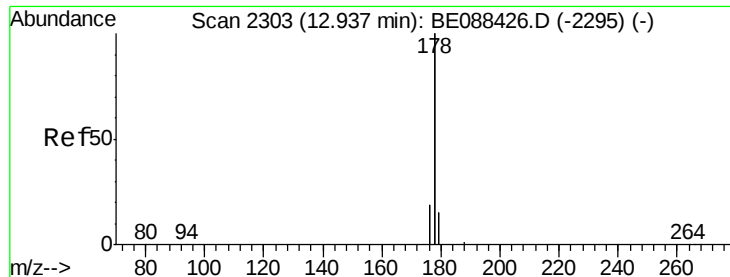
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.91 min Scan# 2299
 Delta R.T. 0.01 min
 Lab File: BE088460.D
 Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.4	11.8	17.8
80	10.9	10.9	16.3





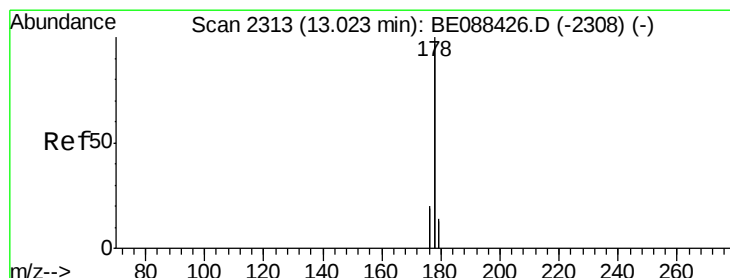
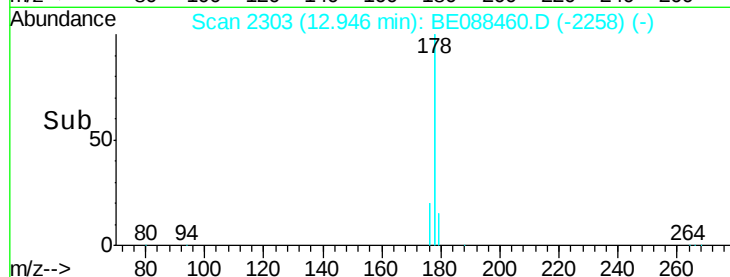
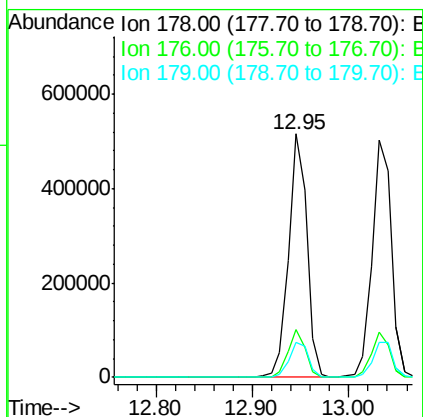
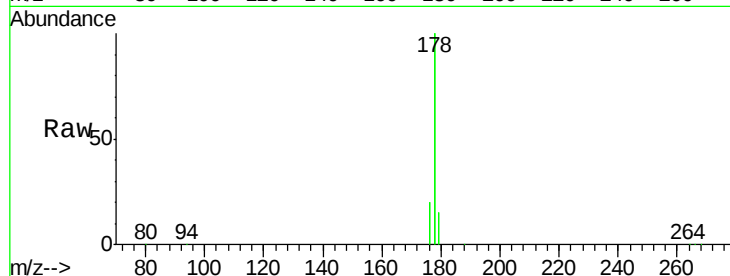
#13
Phenanthrene
Concen: 9.68 ng
RT: 12.95 min Scan# 2303
Delta R.T. 0.01 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014MSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.6	12.8	19.2

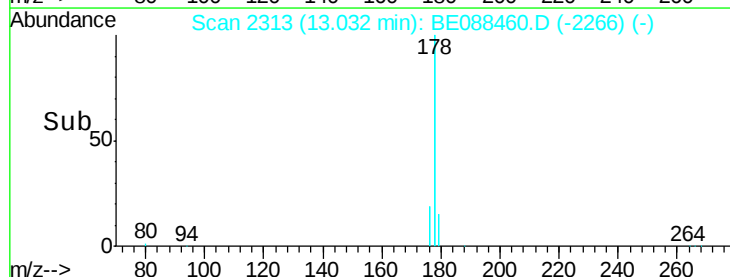
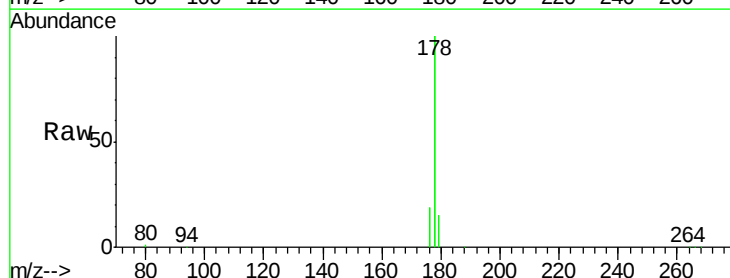
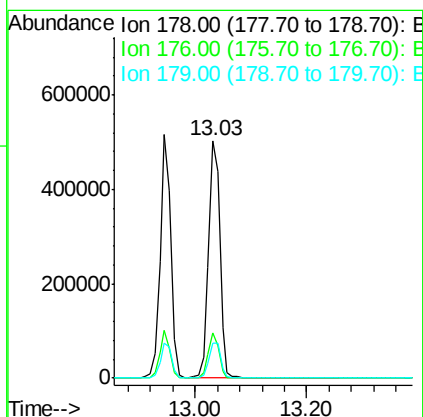
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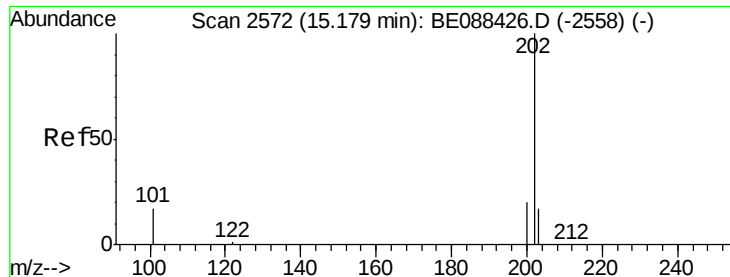
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#14
Anthracene
Concen: 9.65 ng
RT: 13.03 min Scan# 2313
Delta R.T. 0.01 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.4
179	15.4	12.5	18.7





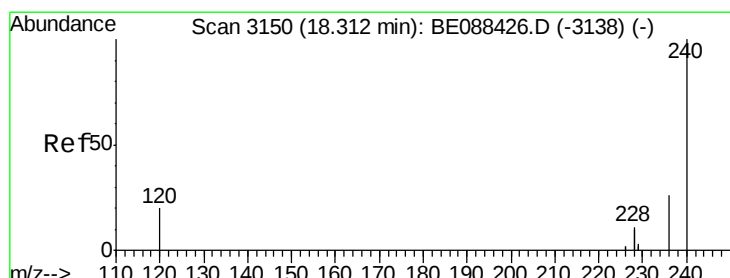
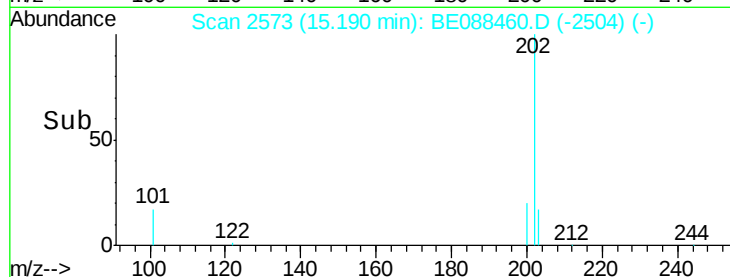
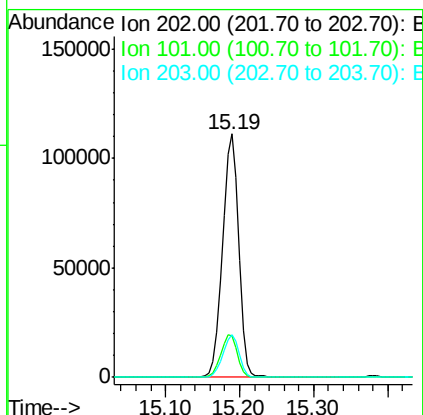
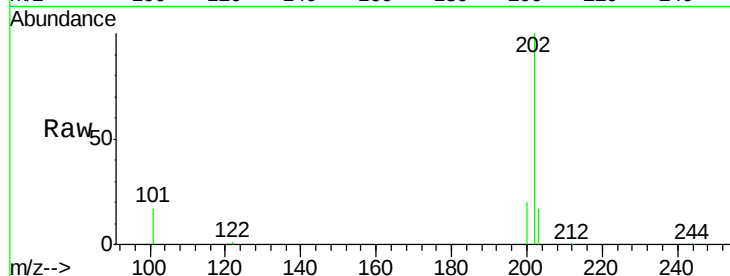
#15
Fluoranthene
 Concen: 11.69 ng
 RT: 15.19 min Scan# 2573
 Delta R.T. 0.01 min
 Lab File: BE088460.D
 Acq: 1 Nov 2014 20:22

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014MSD

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	171471		
101	17.5	14.3	21.5	
203	17.2	13.6	20.4	

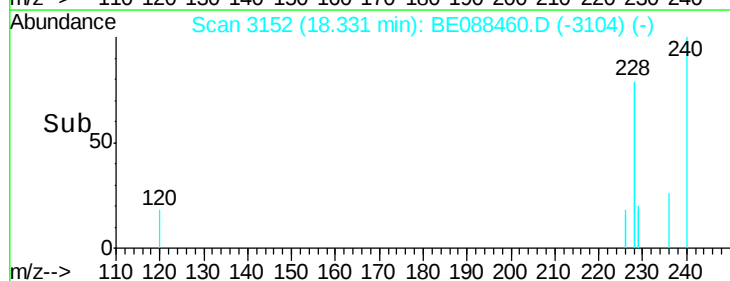
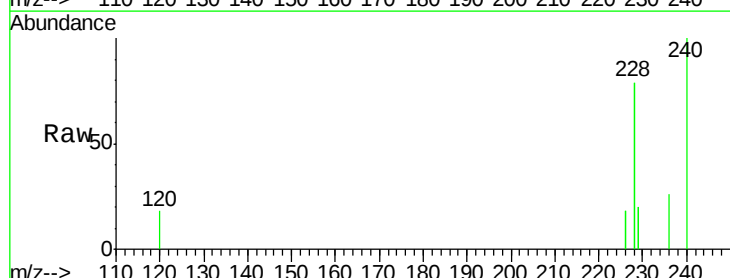
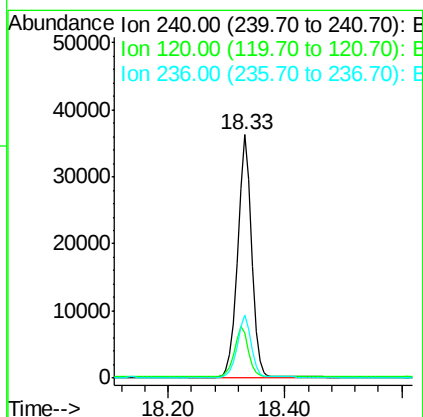
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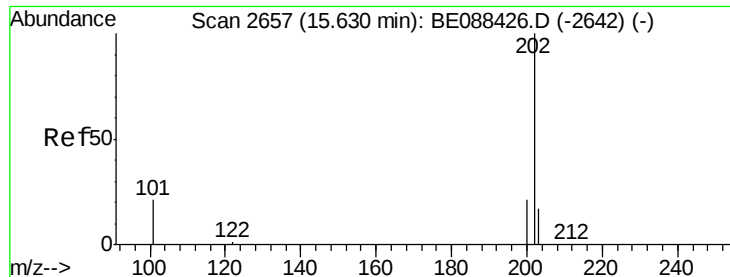
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#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3152
 Delta R.T. 0.02 min
 Lab File: BE088460.D
 Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	58235		
120	18.3	16.4	24.6	
236	26.0	20.5	30.7	





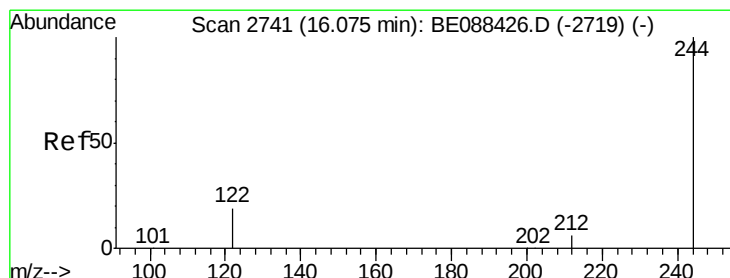
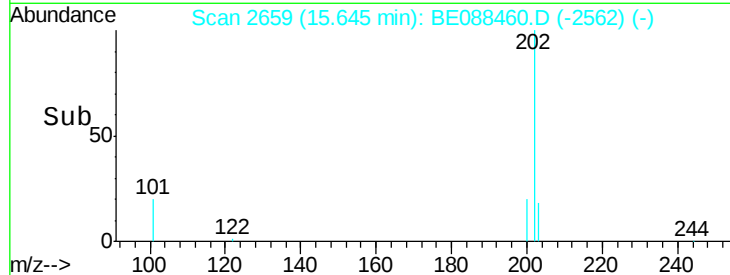
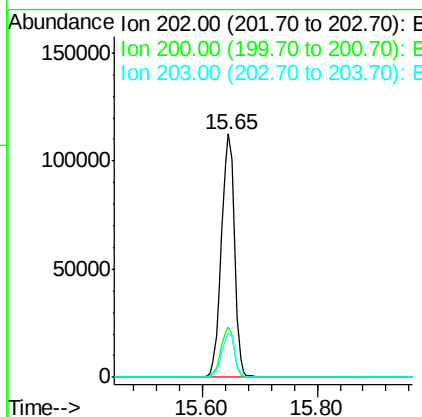
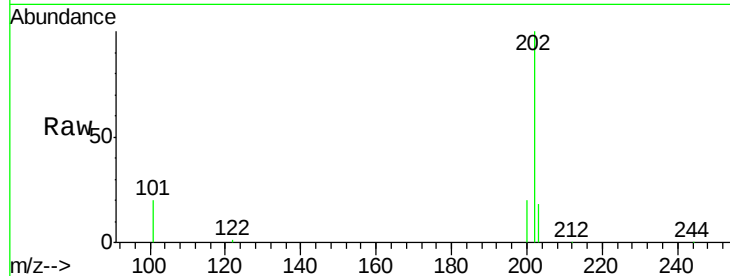
#17
Pyrene
Concen: 9.31 ng
RT: 15.65 min Scan# 2659
Delta R.T. 0.02 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014MSD

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	176869		
200	20.2	16.1	24.1	
203	18.0	13.8	20.8	

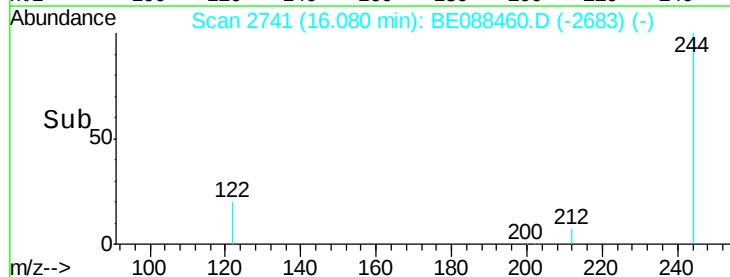
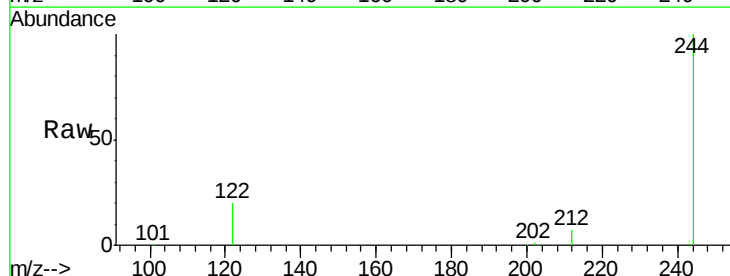
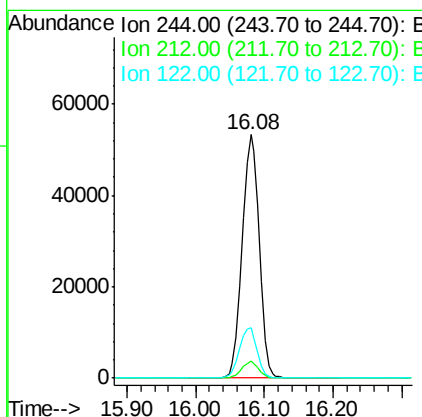
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#18
Terphenyl-d14
Concen: 8.63 ng
RT: 16.08 min Scan# 2741
Delta R.T. 0.01 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	92358		
212	6.9	5.5	8.3	
122	20.4	15.6	23.4	





#19

Benzo(a)anthracene

Concen: 10.91 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.02 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

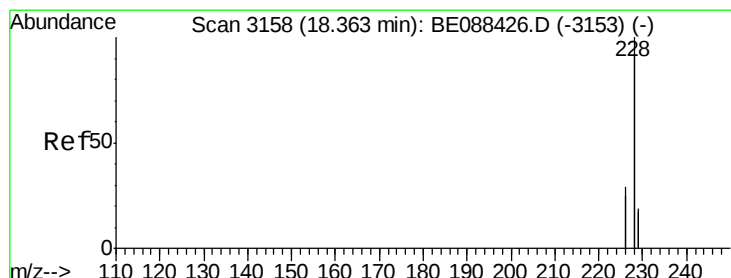
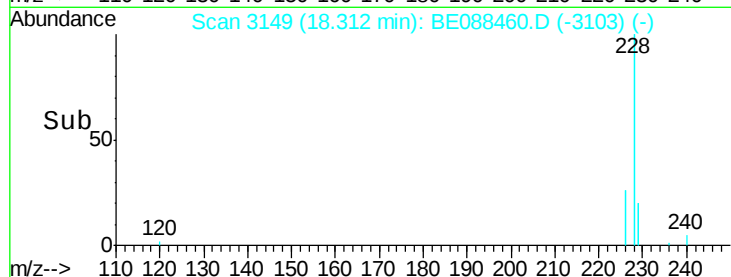
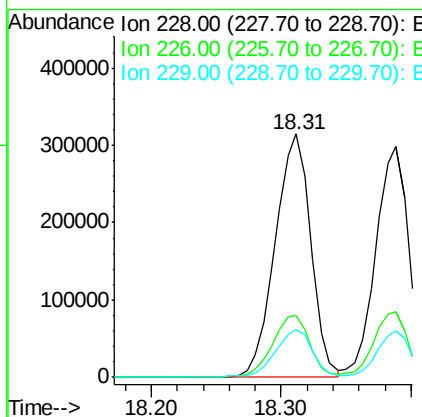
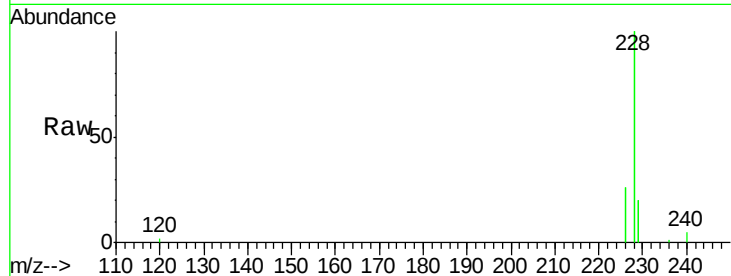
ClientSampleId :

YS19-SB40-1014MSD

Tgt Ion:	228	Resp:	598267
Ion Ratio	Lower	Upper	
228	100		
226	25.6	19.8	29.6
229	19.6	16.0	24.0

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#20

Chrysene

Concen: 9.78 ng

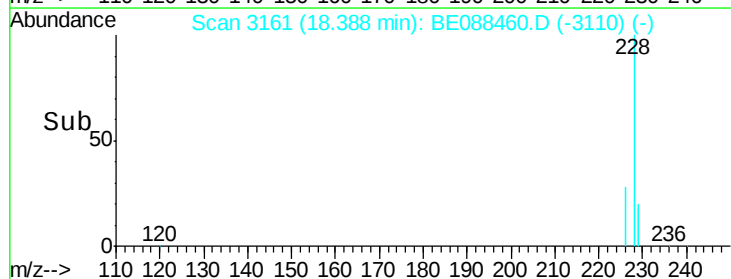
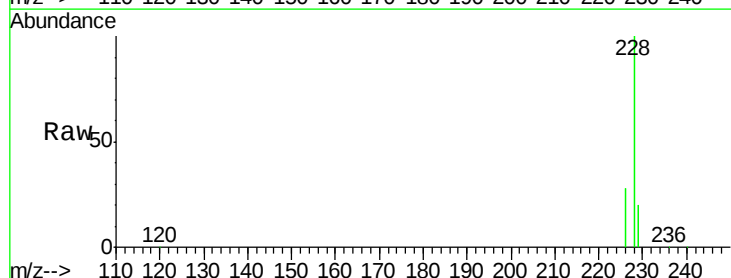
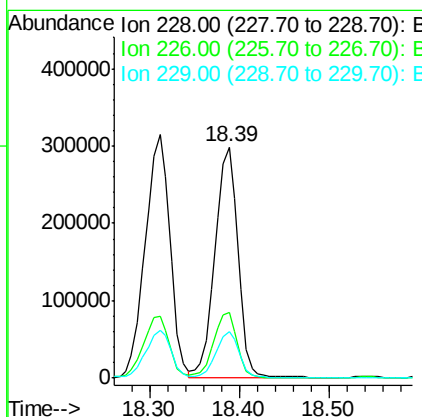
RT: 18.39 min Scan# 3161

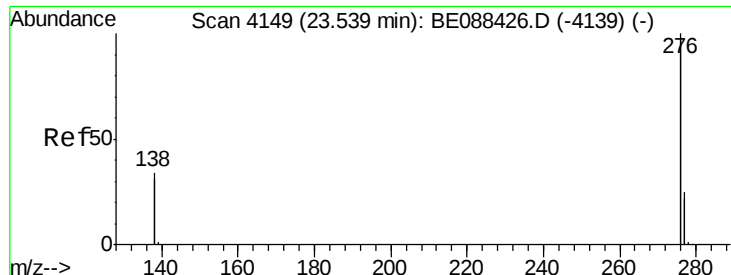
Delta R.T. 0.03 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion:	228	Resp:	526366
Ion Ratio	Lower	Upper	
228	100		
226	28.3	23.6	35.4
229	19.9	15.4	23.2





#21

Indeno(1,2,3-cd)pyrene

Concen: 13.07 ng m

RT: 23.60 min Scan# 4157

Delta R.T. 0.06 min

Lab File: BE088460.D

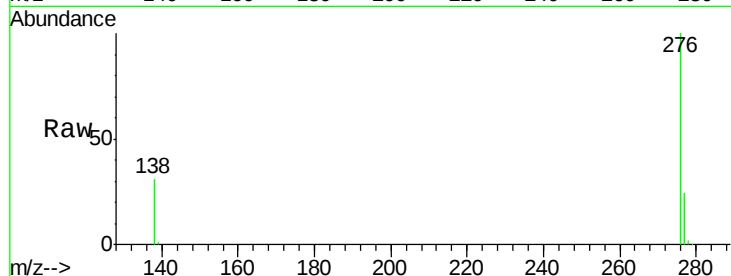
Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

ClientSampleId :

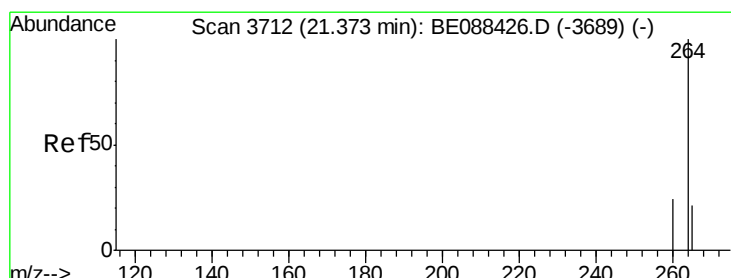
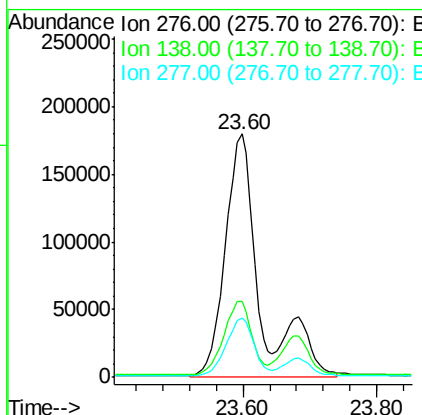
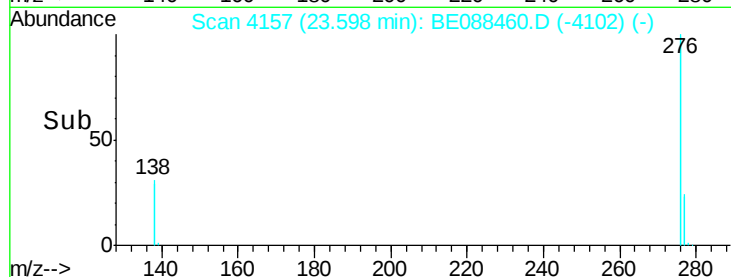
YS19-SB40-1014MSD



Tgt Ion:	276	Resp:	655581
Ion Ratio	Lower	Upper	
276	100		
138	24.3	20.2	30.2
277	18.9	14.8	22.2

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#22

Perylene-d12

Concen: 5.00 ng

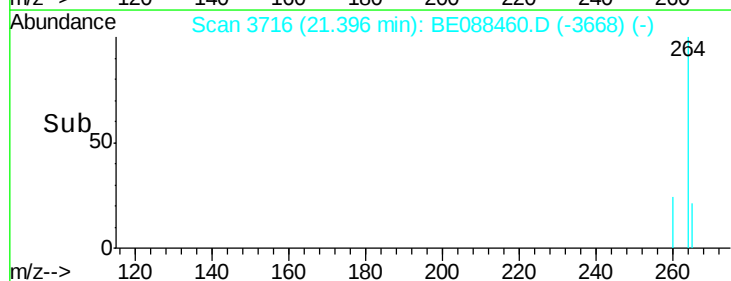
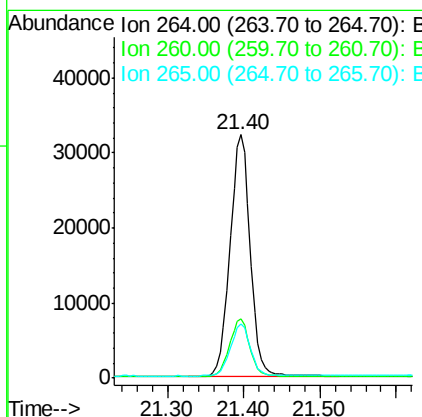
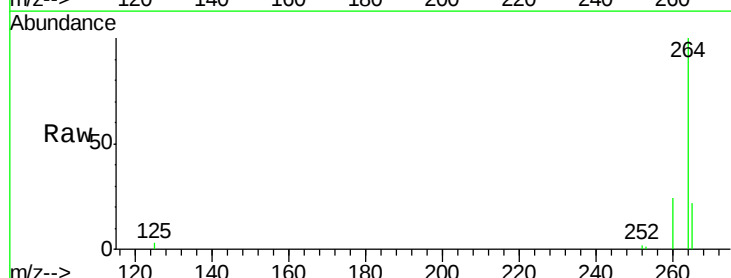
RT: 21.40 min Scan# 3716

Delta R.T. 0.02 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion:	264	Resp:	59671
Ion Ratio	Lower	Upper	
264	100		
260	24.1	18.9	28.3
265	22.2	17.2	25.8





#23

Benzo(b)fluoranthene

Concen: 10.97 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.03 min

Lab File: BE088460.D

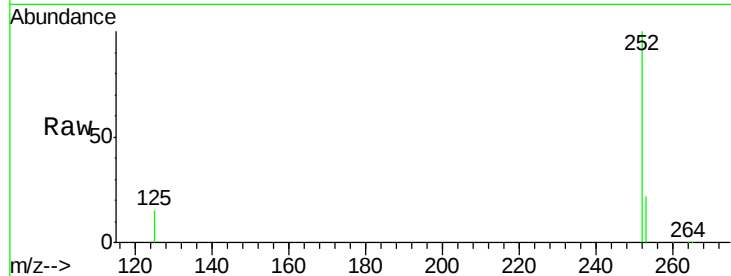
Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

ClientSampleId :

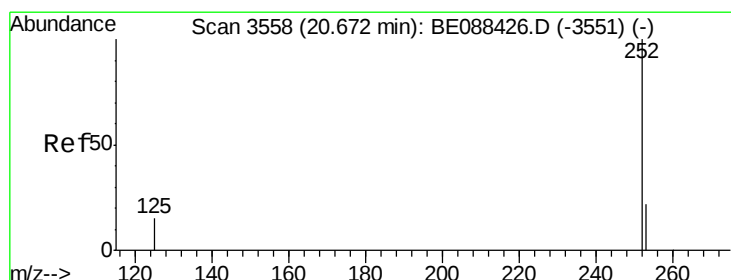
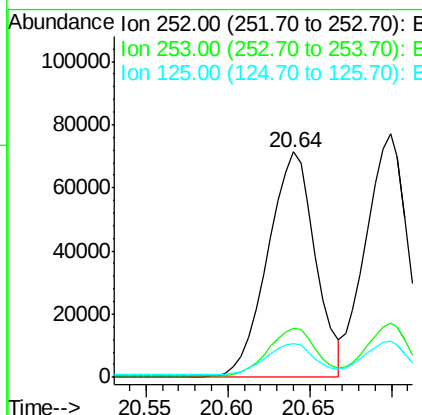
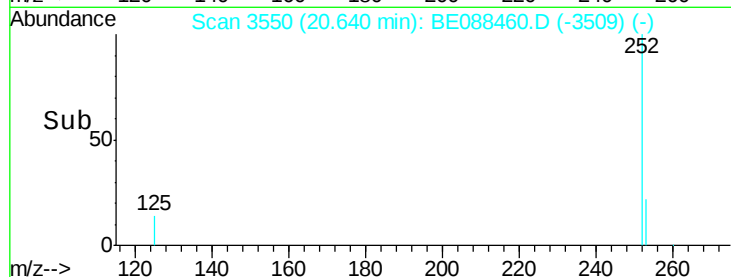
YS19-SB40-1014MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	15.2	12.3	18.5

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#24

Benzo(k)fluoranthene

Concen: 9.64 ng

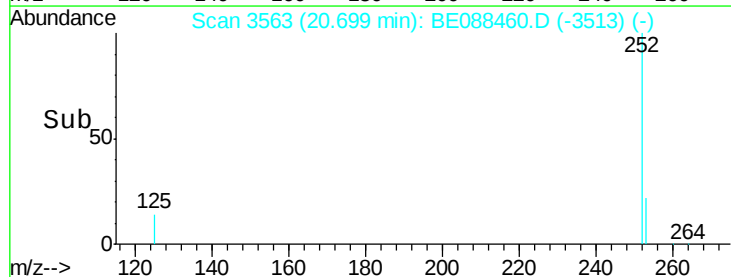
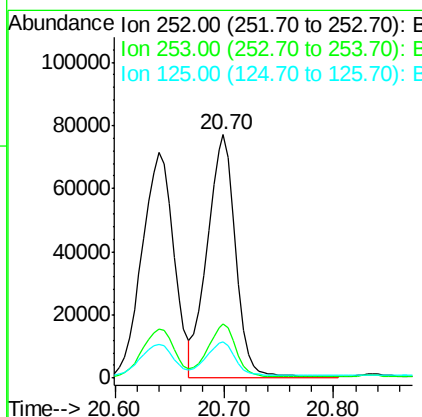
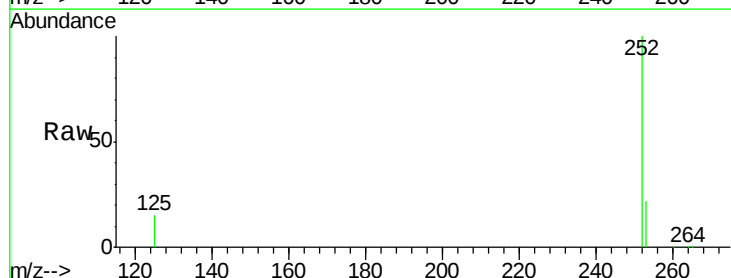
RT: 20.70 min Scan# 3563

Delta R.T. 0.03 min

Lab File: BE088460.D

Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	14.8	12.2	18.4





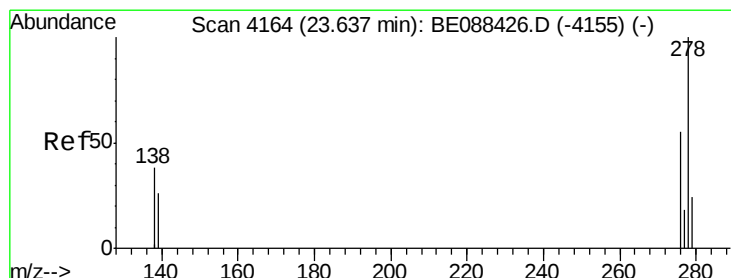
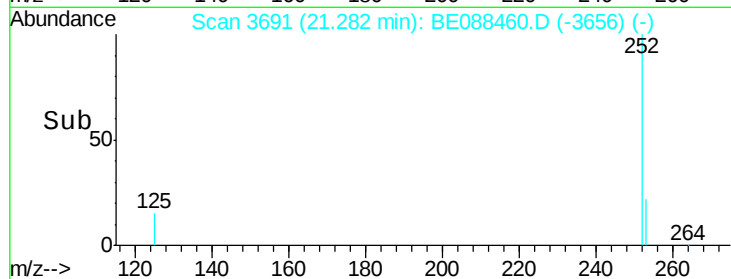
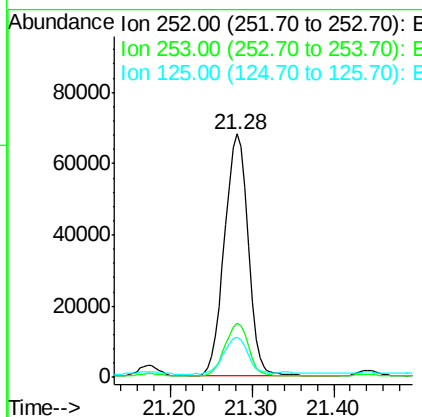
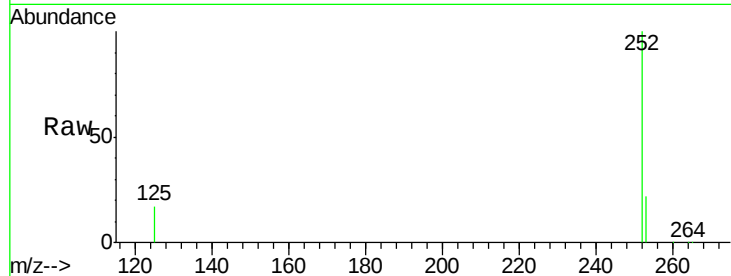
#25
Benzo(a)pyrene
Concen: 10.89 ng
RT: 21.28 min Scan# 3691
Delta R.T. 0.03 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	16.6	13.7	20.5

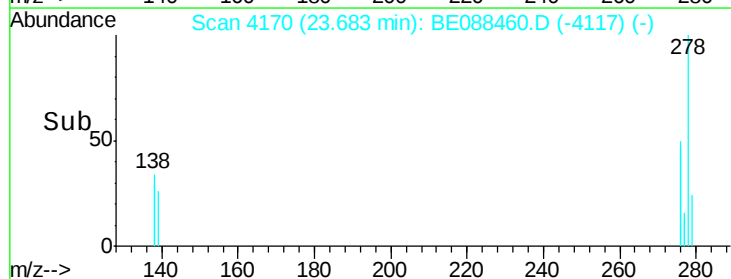
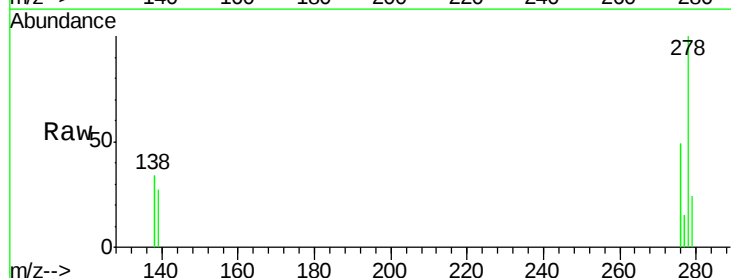
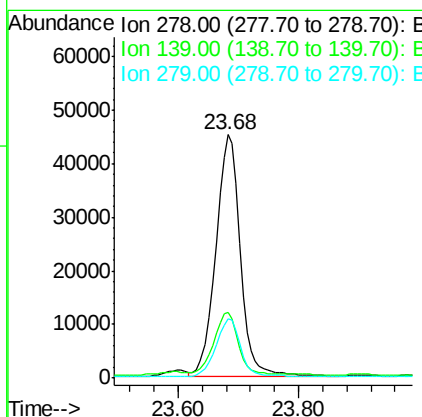
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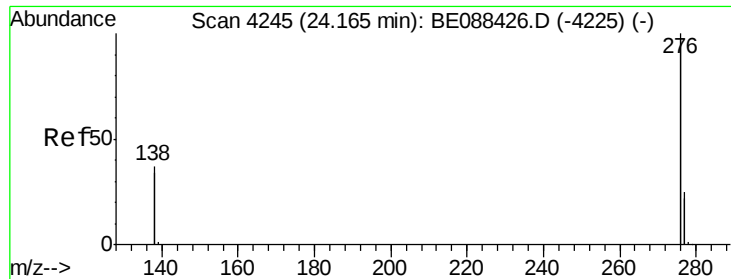
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#26
Dibenzo(a,h)anthracene
Concen: 11.07 ng
RT: 23.68 min Scan# 4170
Delta R.T. 0.05 min
Lab File: BE088460.D
Acq: 1 Nov 2014 20:22

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.8	22.1	33.1
279	24.3	19.7	29.5





#27

Benzo(g,h,i)perylene

Concen: 10.48 ng

RT: 24.24 min Scan# 4255

Delta R.T. 0.07 min

Lab File: BE088460.D

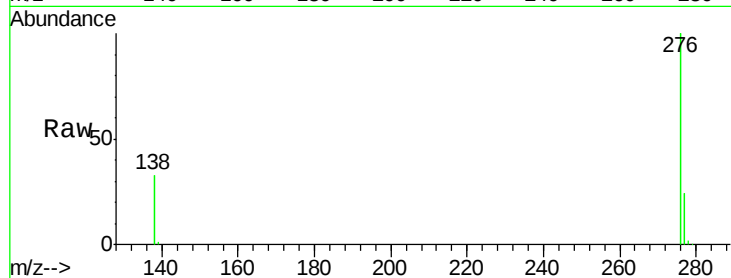
Acq: 1 Nov 2014 20:22

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MSD



Tgt Ion: 276 Resp: 560870

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 32.8 29.3 43.9

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