APPENDIX 1

STATA LOG FILE/OUTPUT: theo_CV=2_30comp_uncensored.log

label list
method:
1 original
2 Allender
3 Novigen
4 MaxLIP1

. sort meth

. by meth: summarize residue,detail

-> meth=original

residue

Percentiles		Smallest		
1%	.002512	.0011884		
5%	.0055915	.0015736		
10%	.0087305	.001632	Obs	450
25%	.01904	.0024258	Sum of Wgt.	450
50%	.0446428		Mean	.1001748
	Largest		Std. Dev.	.1898224
75%	.1051224	1.021243		
90%	.2268092	1.247094	Variance	.0360326
95%	.3613527	1.335169	Skewness	6.774018
99%	.8992397	2.533085	Kurtosis	70.76885

-> meth=Allender

residue

Percentiles		Smallest		
1%	.00409	.0021		
5%	.00833	.0027		
10%	.01239	.00279	Obs	450
25%	.02479	.00396	Sum of Wgt.	450
50%	.052905		Mean	.1003352
	Largest		Std. Dev.	.1565942
75%	.11334	.85673		
90%	.22464	1.02339	Variance	.0245217

95%	.33996	1.08744	Skewness	5.593789
99%	.76505	1.92235	Kurtosis	51.01083

-> meth= Novigen

residue

Percentiles		Smallest		
1%	.0014286	.0010695		
5%	.0043364	.0010941		
10%	.0079836	.0011415	Obs	450
25%	.0190545	.0011662	Sum of Wgt.	450
50%	.0489341		Mean	.0985186
	Largest		Std. Dev.	.1263297
75%	.1186389	.5417213		
90%	.243962	.5599318	Variance	.0159592
95%	.4451822	.5666574	Skewness	2.145612
99%	.5308715	.7022806	Kurtosis	7.231329

-> meth= MaxLIP1

residue

Percentiles		Smallest		
1%	.00346	.001578		
5%	.00758	.00219		
10%	.0115985	.002772	Obs	450
25%	.023184	.00313	Sum of Wgt.	450
50%	.051655		Mean	.1002643
	Largest		Std. Dev.	.154345
75%	.113096	.883497		
90%	.228798	1.01795	Variance	.0238224
95%	.353235	1.24546	Skewness	4.72429
99%	.755985	1.61948	Kurtosis	35.03111

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0778	0.066	
Allender:	-0.0111	0.946	
Combined K-S:	0.0778	0.131	0.115

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0467	0.375	
Novigen:	-0.0222	0.801	
Combined K-S:	0.0467	0.711	0.682

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0578	0.223	
MaxLIP1:	-0.0067	0.980	
Combined K-S:	0.0578	0.440	0.408

. qqplot logres1 logres1, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic101)

. qqplot logres1 logres2, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic102)

. qqplot logres1 logres3, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic103)

. qqplot logres1 logres4, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic104)

. graph using pic101 pic102 pic103 pic104, margin(15) saving(pic100)

Q-Q PLOTS: theo_CV=2_30comp_uncensored

STATA LOG FILE/OUTPUT: theo_CV=1_30comp_censored.log

```
label list
method:
           1 original
           2 MaxLIP1
           3 MaxLIP2
           4 MaxLIP3
           5 MaxLIP4
           6 MaxLIP5
           7 Allender
           8 Novigen

. sort meth

. by meth: summarize residue, detail

-> meth=original
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%     .0104443       .0064023
 5%     .0182625       .0078619
10%     .0241493       .0087233       Obs                 450
25%      .040491       .0094144       Sum of Wgt.         450

50%     .0704659                      Mean           .1000437
                      Largest       Std. Dev.      .0991227
75%     .1241246       .5153022
90%     .2044574        .609885       Variance       .0098253
95%     .2848463       .6113446       Skewness       3.384686
99%     .5067896       .9999917       Kurtosis       22.12941

-> meth= MaxLIP1
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%      .006801       .003112
 5%      .012948       .004712
10%      .018105        .00522       Obs                 450
25%      .033539       .006293       Sum of Wgt.         450

50%     .0639835                      Mean           .0982464
                      Largest       Std. Dev.      .1065999
```

75%	.122838	.568162		
90%	.2168105	.620855	Variance	.0113635
95%	.293713	.709869	Skewness	3.071871
99%	.538324	.951251	Kurtosis	17.23734

-> meth= MaxLIP2

residue

Percentiles		Smallest		
1%	.0341	.0218		
5%	.0501	.0273		
10%	.0636	.0297	Obs	450
25%	.0776	.0323	Sum of Wgt.	450
50%	.08645		Mean	.1039447
	Largest		Std. Dev.	.0563251
75%	.11	.361		
90%	.168	.391	Variance	.0031725
95%	.213	.434	Skewness	2.899569
99%	.34	.509	Kurtosis	14.91835

-> meth= MaxLIP3

residue

Percentiles		Smallest		
1%	.00804	0		
5%	.0209	0		
10%	.0284	0	Obs	450
25%	.0458	0	Sum of Wgt.	450
50%	.0761		Mean	.0980601
	Largest		Std. Dev.	.081478
75%	.125	.442		
90%	.19	.469	Variance	.0066387
95%	.247	.56	Skewness	2.621793
99%	.417	.717	Kurtosis	14.33496

-> meth= MaxLIP4

residue

Percentiles		Smallest		
1%	.0488	1.09e-26		
5%	.0696	4.13e-23		
10%	.0737	6.17e-21	Obs	450
25%	.0811	1.10e-18	Sum of Wgt.	450

50%	.09205	Mean	.1020758
	Largest	Std. Dev.	.0318593
75%	.119	.203	
90%	.1485	.209	Variance .001015
95%	.165	.218	Skewness .8910966
99%	.198	.234	Kurtosis 4.740295

-> meth= MaxLIP5

residue

Percentiles		Smallest		
1%	.0623	1.72e-23		
5%	.071	.0502		
10%	.07455	.0577	Obs	450
25%	.0814	.0605	Sum of Wgt.	450

50%	.09255	Mean	.1037798
	Largest	Std. Dev.	.0329351
75%	.119	.22	
90%	.15	.225	Variance .0010847
95%	.17	.241	Skewness 1.452663
99%	.214	.271	Kurtosis 5.832544

-> meth=Allender

residue

Percentiles		Smallest		
1%	.02129	.01464		
5%	.03263	.01713		
10%	.04039	.01855	Obs	450
25%	.05996	.01966	Sum of Wgt.	450

50%	.09156	Mean	.1124434
	Largest	Std. Dev.	.0792857
75%	.14113	.41884	
90%	.206655	.47641	Variance .0062862
95%	.26626	.47728	Skewness 2.297578
99%	.41354	.69517	Kurtosis 11.94352

-> meth= Novigen

residue

Percentiles		Smallest
1%	.0004956	.000075

5%	.002254	.0003163		
10%	.0049331	.0004724	Obs	450
25%	.015895	.0004758	Sum of Wgt.	450
50%	.0455017		Mean	.0885098
	Largest		Std. Dev.	.1153374
75%	.1068703	.5294565		
90%	.238763	.5486197	Variance	.0133027
95%	.368078	.5711085	Skewness	2.228153
99%	.5110412	.5974749	Kurtosis	7.83988

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0133	0.923	
MaxLIP1:	-0.0711	0.103	
Combined K-S:	0.0711	0.205	0.182

. with logres meth if meth==1|meth==7: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1756	0.000	
Allender:	-0.0133	0.923	
Combined K-S:	0.1756	0.000	0.000

. with logres meth if meth==1|meth==8: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0356	0.566	
Novigen:	-0.2422	0.000	
Combined K-S:	0.2422	0.000	0.000

. qqplot logres1 logres1, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic201)

. qqplot logres1 logres7, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic202)

```
. qqplot logres1 logres8, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic203)

. qqplot logres1 logres2, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic204)

. graph using pic201 pic202 pic203 pic204, margin(15) saving(pic200)
```

Q-Q PLOTS: theo_CV=1_30comp_censored

STATA LOG FILE/OUTPUT: theo_cv=1_10comp_uncensored.

```
label list
method:
         1 original
         2 Allender
         3 Novigen
         4 MaxLIP1

. sort meth

. by meth: summarize residue, detail

-> meth=original
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%     .0106457       .0064023
 5%     .0182469       .0106457
10%     .0242162       .0113911       Obs                 150
25%     .0403267       .0131453       Sum of Wgt.         150

50%     .0705089                      Mean           .099377
                     Largest       Std. Dev.      .0937839
75%     .1241246       .3799233
90%     .2044574       .4373933       Variance       .0087954
95%     .2848463       .5153022       Skewness       2.524185
99%     .5153022        .609885       Kurtosis       11.3392

-> meth=Allender
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%         .01            .01
 5%         .02            .01
10%         .02            .01       Obs                 150
25%         .04            .01       Sum of Wgt.         150

50%         .07                      Mean           .0992667
                     Largest       Std. Dev.      .0991785
75%         .12             .4
90%         .21            .46       Variance       .0098364
95%         .29            .55       Skewness       2.650132
99%         .55            .65       Kurtosis       12.13445
```

-> meth= Novigen

residue

	Percentiles	Smallest		
1%	.0060007	.0024436		
5%	.0115108	.0060007		
10%	.0165487	.0066583	Obs	150
25%	.0333049	.0081255	Sum of Wgt.	150
50%	.0660467		Mean	.0980262
	Largest		Std. Dev.	.0936227
75%	.1280603	.4147782		
90%	.2227006	.4346096	Variance	.0087652
95%	.3116175	.4372376	Skewness	1.808153
99%	.4372376	.4562849	Kurtosis	6.300382

-> meth= MaxLIP1

residue

	Percentiles	Smallest		
1%	.006678	.004565		
5%	.012775	.006678		
10%	.0181775	.008076	Obs	150
25%	.03228	.009358	Sum of Wgt.	150
50%	.0639495		Mean	.1010434
	Largest		Std. Dev.	.1133421
75%	.123211	.441192		
90%	.225403	.493464	Variance	.0128464
95%	.320747	.58564	Skewness	2.82956
99%	.58564	.777415	Kurtosis	13.52952

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0267	0.899	
Allender:	-0.0667	0.513	
Combined K-S:	0.0667	0.893	0.866

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0333	0.846	
Novigen:	-0.0867	0.324	
Combined K-S:	0.0867	0.626	0.574

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0267	0.899	
MaxLIP1:	-0.0867	0.324	
Combined K-S:	0.0867	0.626	0.574

. qqplot logres1 logres1, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic301)

. qqplot logres1 logres2, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic202)
file pic202.gph already exists
r(602);

. qqplot logres1 logres2, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic302)

. qqplot logres1 logres3, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic303)

. qqplot logres1 logres4, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic304)

. graph using pic301 pic302 pic303 pic304, margin(15) saving(pic300)

.

Q-Q PLOT: theo_cv=1_10comp_uncensored

STATA LOG FILE/OUTPUT: theo_cv=1_10comp_censored

```
label list
method:
         1 original
         2 Allender
         3 Novigen
         4 MaxLIP1

. sort meth

. by meth: summarize residue, detail

-> meth=original
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%       .01065          .0064
 5%       .01825         .01065
10%      .024215         .01139       Obs                 150
25%       .04033         .01315       Sum of Wgt.         150

50%       .07051                      Mean           .099377
                     Largest       Std. Dev.      .0937834
75%       .12412         .37992
90%       .20446         .43739       Variance       .0087953
95%       .28485          .5153       Skewness       2.524163
```

99% .5153 .60988 Kurtosis 11.33908

-> meth=Allender

residue

Percentiles	Smallest		
1%	.0144658	.0119897	
5%	.0292241	.0144658	
10%	.0396419	.018851	Obs 150
25%	.0568663	.0241437	Sum of Wgt. 150
50%	.0836838		Mean .1036115
	Largest		Std. Dev. .0725697
75%	.1248899	.2869433	
90%	.1856865	.2930372	Variance .0052664
95%	.2471603	.3350985	Skewness 2.522367
99%	.3350985	.5692753	Kurtosis 13.88663

-> meth= Novigen

residue

Percentiles	Smallest		
1%	.0008644	.0007836	
5%	.0027517	.0008644	
10%	.0052957	.000879	Obs 150
25%	.015139	.0012189	Sum of Wgt. 150
50%	.0467842		Mean .0899784
	Largest		Std. Dev. .1150946
75%	.1135213	.4738443	
90%	.2398872	.4764183	Variance .0132468
95%	.3712737	.483834	Skewness 2.158361
99%	.483834	.5739807	Kurtosis 7.452154

-> meth= MaxLIP1

residue

Percentiles	Smallest		
1%	.00457	.00321	
5%	.00931	.00457	
10%	.0137	.00557	Obs 150
25%	.0274	.00634	Sum of Wgt. 150
50%	.05785		Mean .1010811
	Largest		Std. Dev. .124524

75%	.124	.484		
90%	.2375	.542	Variance	.0155062
95%	.334	.633	Skewness	2.977822
99%	.633	.868	Kurtosis	14.69869

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1600	0.021	
Allender:	-0.0333	0.846	
Combined K-S:	0.1600	0.043	0.032

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0400	0.787	
Novigen:	-0.2333	0.000	
Combined K-S:	0.2333	0.001	0.000

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0333	0.846	
MaxLIP1:	-0.1333	0.069	
Combined K-S:	0.1333	0.139	0.111

. qqplot logres1 logres1, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic401)

. qqplot logres1 logres2, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic402)

. qqplot logres1 logres3, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic403)

. qqplot logres1 logres4, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic404)

. graph using pic401 pic402 pic403 pic404, margin(15) saving(pic400)

Q-Q

PLOT: theo_cv=1_10comp_censored

STATA LOG FILE/OUTPUT: theo2dist(25%)_ cv=1 _cens.log

label list
method:
1 Original
2 Allender
3 Novigen
4 MaxLIP1
5 MaxLIP2
6 MaxLIP3
7 MaxLIP4
8 MaxLIP5

. sort meth

. by meth: summarize residue, detail

-> meth=Original

residue

Percentiles		Smallest		
1%	.013145	.006402		
5%	.024512	.010444		
10%	.0344085	.010646	Obs	450
25%	.061403	.011391	Sum of Wgt.	450
50%	.1211225		Mean	.2046446
		Largest	Std. Dev.	.2646265
75%	.247587	1.303771		
90%	.450136	1.550776	Variance	.0700272
95%	.637528	1.922001	Skewness	4.668925
99%	1.272551	3.059975	Kurtosis	38.87212

-> meth=Allender

residue

Percentiles		Smallest		
1%	.0123877	.0041459		
5%	.025437	.0078348		
10%	.0387616	.0104602	Obs	450
25%	.0733772	.0119519	Sum of Wgt.	450

50%	.1536242		Mean	.274754
		Largest	Std. Dev.	.5237432
75%	.310614	2.12866		
90%	.5808705	2.385667	Variance	.2743069
95%	.8561678	2.637975	Skewness	11.33465
99%	1.890491	9.082289	Kurtosis	181.0417

-> meth= Novigen

residue

	Percentiles	Smallest		
1%	.0002374	.0000252		
5%	.0008388	.0000694		
10%	.0018749	.0001249	Obs	450
25%	.0111889	.0002316	Sum of Wgt.	450
50%	.0608923		Mean	.1939281
		Largest	Std. Dev.	.3284133
75%	.2058088	1.640383		
90%	.5631062	1.65851	Variance	.1078553
95%	.8685383	1.725988	Skewness	2.809264
99%	1.62936	1.875082	Kurtosis	11.26928

-> meth= MaxLIP1

residue

	Percentiles	Smallest		
1%	.00121	.00039		
5%	.00345	.00066		
10%	.006345	.00092	Obs	450
25%	.01657	.00111	Sum of Wgt.	450
50%	.0496		Mean	.1959748
		Largest	Std. Dev.	.501669
75%	.15113	3.07284		
90%	.411	3.52139	Variance	.2516718
95%	.8328	3.97003	Skewness	5.954972
99%	2.7684	5.55595	Kurtosis	47.80728

-> meth= MaxLIP2

residue

	Percentiles	Smallest
1%	.0209	.0133

5%	.0365	.0159		
10%	.04845	.0177	Obs	450
25%	.0786	.0195	Sum of Wgt.	450
50%	.14		Mean	.2084231
	Largest		Std. Dev.	.210582
75%	.26	1.13		
90%	.45	1.29	Variance	.0443448
95%	.603	1.45	Skewness	2.967521
99%	1.05	1.84	Kurtosis	16.3107

-> meth= MaxLIP3

residue

Percentiles		Smallest		
1%	1.01e-23	9.48e-28		
5%	1.69e-18	1.05e-25		
10%	.0328	8.82e-25	Obs	450
25%	.0701	2.63e-24	Sum of Wgt.	450
50%	.1375		Mean	.2016791
	Largest		Std. Dev.	.2139922
75%	.262	1.15		
90%	.4435	1.26	Variance	.0457927
95%	.603	1.48	Skewness	2.889687
99%	1.03	1.86	Kurtosis	16.0941

-> meth= MaxLIP4

residue

Percentiles		Smallest		
1%	1.06e-19	4.90e-22		
5%	4.05e-17	5.97e-21		
10%	6.42e-15	1.58e-20	Obs	450
25%	.0643	4.55e-20	Sum of Wgt.	450
50%	.1735		Mean	.1973293
	Largest		Std. Dev.	.1884106
75%	.27	.989		
90%	.3955	1.1	Variance	.0354986
95%	.532	1.22	Skewness	2.145598
99%	.915	1.44	Kurtosis	10.95138

-> meth= MaxLIP5

residue

```
-------------------------------------------------------------
      Percentiles      Smallest
 1%       .0923         .0604
 5%        .113         .0749
10%        .113         .0819      Obs                 450
25%        .113         .0872      Sum of Wgt.         450

50%         .14                    Mean           .2161073
                    Largest        Std. Dev.      .1692832
75%        .259          .982
90%       .3965          1.07      Variance       .0286568
95%         .55          1.18      Skewness       3.203414
99%        .905          1.62      Kurtosis       18.57704


.  wtih logres meth if meth==1|meth==2: ksmirnov logres, by(meth)
unrecognized command:  wtih
r(199);

.  with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
 Original:          0.1000    0.011
 Allender:         -0.0044    0.991
 Combined K-S:      0.1000    0.022      0.018

.  with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
 Original:          0.0356    0.566
 Novigen:          -0.3133    0.000
 Combined K-S:      0.3133    0.000      0.000

.  with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
```

```
 Original:          0.0267    0.726
 MaxLIP1:          -0.3267    0.000
 Combined K-S:      0.3267    0.000      0.000

.  with logres meth if meth==1|meth==5: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
 Original:          0.0978    0.014
 MaxLIP2:          -0.0133    0.923
 Combined K-S:      0.0978    0.027      0.022

. label list
method:
         1 Original
         2 Allender
         3 Novigen
         4 MaxLIP1
         5 MaxLIP2
         6 MaxLIP3
         7 MaxLIP4
         8 MaxLIP5

. label var logres 1 "Original"
invalid syntax
r(198);

. label var logres1 "Original"

. label var logres2 "Allender"

. label var logres3 "Novigen"

. label var logres4 "MaxLIP1"

. label var logres5 "MaxLIP2"

. qqplot logres1 logres1, xlab (-12(2) 2) ylab(-12(2) 2)

. qqplot logres1 logres1, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic501)

. qqplot logres1 logres2, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic502)
```

```
. qqplot logres1 logres3, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic503)

. qqplot logres1 logres4, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic504)

. qqplot logres1 logres5, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic505)

. graph using pic501 pic502 pic503 pic504 pic505, margin(15) saving(pic500)

.
```

Q-Q PLOT: theo2dist(25%)_ cv=1 _cens.log

STATA LOG FILE/OUTPUT: theo2dist(10%)_ cv=1 _cens.log

label list
method:
1 original
2 MaxLIP1
3 MaxLIP2
4 MaxLIP3
5 MaxLIP4
6 MaxLIP5
7 Novigen
8 Allender

. sort meth

. by meth: summarize residue, detail

-> meth=original

residue

Percentiles		Smallest		
1%	.013145	.006402		
5%	.025809	.010444		
10%	.035604	.010646	Obs	450
25%	.070851	.011391	Sum of Wgt.	450
50%	.2063645		Mean	.4797407
	Largest		Std. Dev.	.746337
75%	.60958	3.6846		
90%	1.19396	4.34091	Variance	.557019
95%	1.6318	5.13767	Skewness	4.601158
99%	3.58921	8.42393	Kurtosis	37.23031

-> meth= MaxLIP1

residue

Percentiles		Smallest		
1%	.00025	.0000573		
5%	.000949	.000111		
10%	.00214	.000154	Obs	450
25%	.008	.000207	Sum of Wgt.	450
50%	.03425		Mean	.4977525

	Largest	Std. Dev.	1.870777	
75%	.149	12.2		
90%	.615	13.2	Variance	3.499808
95%	2.07	14.7	Skewness	5.631229
99%	11.3	16.7	Kurtosis	37.28558

-> meth= MaxLIP2

residue

Percentiles		Smallest		
1%	.0203	.0103		
5%	.0339	.0149		
10%	.0466	.0177	Obs	450
25%	.0843	.0189	Sum of Wgt.	450
50%	.199		Mean	.4859113
	Largest		Std. Dev.	.7390395
75%	.581	4.04		
90%	1.23	4.52	Variance	.5461794
95%	1.84	5.03	Skewness	3.689396
99%	3.71	6.86	Kurtosis	22.47118

-> meth= MaxLIP3

residue

Percentiles		Smallest		
1%	.0151	.00701		
5%	.0339	.0106		
10%	.05625	.0126	Obs	450
25%	.112	.0135	Sum of Wgt.	450
50%	.1805		Mean	.4896067
	Largest		Std. Dev.	.7602744
75%	.592	4.02		
90%	1.205	4.52	Variance	.5780172
95%	1.82	5.43	Skewness	4.116962
99%	3.72	7.68	Kurtosis	28.13415

-> meth= MaxLIP4

residue

Percentiles		Smallest		
1%	7.47e-27	6.94e-30		
5%	1.83e-23	2.29e-28		
10%	1.86e-20	9.07e-28	Obs	450

25%	.067	2.30e-27	Sum of Wgt.	450
50%	.223		Mean	.4754802
		Largest	Std. Dev.	.5962599
75%	.728	2.84		
90%	1.255	3.1	Variance	.3555259
95%	1.58	3.56	Skewness	2.276724
99%	2.66	4.66	Kurtosis	11.01786

-> meth= MaxLIP5

residue

Percentiles		Smallest		
1%	.000682	.0000995		
5%	.00837	.00022		
10%	.0751	.000373	Obs	450
25%	.112	.000539	Sum of Wgt.	450
50%	.237		Mean	.5076794
		Largest	Std. Dev.	.6039606
75%	.749	2.97		
90%	1.145	3.26	Variance	.3647685
95%	1.55	3.78	Skewness	3.224579
99%	2.68	6.16	Kurtosis	22.79787

-> meth= Novigen

residue

Percentiles		Smallest		
1%	.0000169	4.69e-06		
5%	.0001228	7.30e-06		
10%	.0003898	.0000107	Obs	450
25%	.0034506	.0000137	Sum of Wgt.	450
50%	.0755196		Mean	.4644568
		Largest	Std. Dev.	.9707761
75%	.4803623	5.32036		
90%	1.261279	5.636536	Variance	.9424062
95%	2.099527	6.184605	Skewness	3.619737
99%	5.188283	6.280733	Kurtosis	17.46399

-> meth=Allender

residue

Percentiles	Smallest

1%	.01152	.00751		
5%	.03316	.00899		
10%	.05105	.0102	Obs	450
25%	.11684	.01099	Sum of Wgt.	450
50%	.282035		Mean	.6501363
	Largest		Std. Dev.	1.121444
75%	.69361	6.15467		
90%	1.52257	8.66661	Variance	1.257638
95%	2.50073	9.71312	Skewness	4.558668
99%	5.90843	9.74456	Kurtosis	30.28356

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0511	0.309	
MaxLIP2:	-0.0311	0.647	
Combined K-S:	0.0511	0.599	0.567

. with logres meth if meth==1|meth==7: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0244	0.764	
Novigen:	-0.3644	0.000	
Combined K-S:	0.3644	0.000	0.000

. with logres meth if meth==1|meth==8: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1311	0.000	
Allender:	-0.0044	0.991	
Combined K-S:	0.1311	0.001	0.001

. qqplot logres1 logres1, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic601)

```
. qqplot logres1 logres8, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic601)
file pic601.gph already exists
r(602);

. qqplot logres1 logres8, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic602)

. qqplot logres1 logres7, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic603)

. qqplot logres1 logres3, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic604)

. graph using pic601 pic602 pic603 pic604, margin(15) saving(pic600)
```

Q-Q PLOT: theor_2dist(10%)_ cv=1 _cens.log

STATA LOG FILE/OUTPUT: novartis_diazinon_peaches

```
label list
method:
         1 field trial single-item
         2 Allender
         3 Novigen
         4 MaxLIP1
         5 MaxLIP2
         6 MaxLIP3
         7 MaxLIP4
         8 MaxLIP5

. sort meth

. by meth: summarize residue, detail

-> meth=field trial single-item
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%        .0035          .001
 5%         .006          .003
10%          .01          .004       Obs                 200
25%        .0195          .004       Sum of Wgt.         200

50%         .067                     Mean           .144605
                     Largest       Std. Dev.      .2047197
75%        .1855          .829
90%        .4175          .877       Variance       .0419101
95%          .51         1.069       Skewness       2.965827
99%         .973         1.499       Kurtosis       15.00825

-> meth=              Allender
                      residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%          .01             0
 5%         .015           .01
10%          .02           .01       Obs                 200
25%          .04           .01       Sum of Wgt.         200

50%          .08                     Mean            .14705
                     Largest       Std. Dev.      .1920997
```

75%	.17	.75		
90%	.36	.91	Variance	.0369023
95%	.525	1.14	Skewness	3.194047
99%	1.025	1.43	Kurtosis	16.80296

-> meth= Novigen
residue

Percentiles		Smallest		
1%	.0008437	.0003666		
5%	.0046175	.0005848		
10%	.0076326	.0011025	Obs	200
25%	.0242813	.0012014	Sum of Wgt.	200
50%	.0757128		Mean	.1432559
	Largest		Std. Dev.	.1753759
75%	.1751336	.7213647		
90%	.4211342	.755182	Variance	.0307567
95%	.5299276	.7655723	Skewness	1.770232
99%	.7603771	.7718232	Kurtosis	5.564711

-> meth= MaxLIP1
residue

Percentiles		Smallest		
1%	.00527	.00329		
5%	.01152	.00478		
10%	.01755	.00576	Obs	200
25%	.03457	.00676	Sum of Wgt.	200
50%	.07455		Mean	.14387
	Largest		Std. Dev.	.217439
75%	.160745	.89415		
90%	.317935	1.03781	Variance	.0472797
95%	.51104	1.32316	Skewness	4.298318
99%	1.180485	1.8706	Kurtosis	27.71191

-> meth= MaxLIP2
residue

Percentiles		Smallest		
1%	.00931	.0058		
5%	.017805	.00831		
10%	.025725	.01031	Obs	200
25%	.045515	.01164	Sum of Wgt.	200

50%	.083875	Mean	.1471731
	Largest	Std. Dev.	.2016268
75%	.16487	.80878	
90%	.32218	.96647	Variance .0406534
95%	.48202	1.23865	Skewness 4.256404
99%	1.10256	1.755	Kurtosis 27.72849

-> meth= MaxLIP3
residue

Percentiles		Smallest	
1%	.01082	.00693	
5%	.02087	.0098	
10%	.029765	.01184	Obs 200
25%	.05919	.01343	Sum of Wgt. 200

50%	.118755	Mean	.1468229
	Largest	Std. Dev.	.1105692
75%	.210635	.42206	
90%	.30757	.44664	Variance .0122255
95%	.3528	.49029	Skewness 1.10568
99%	.468465	.62281	Kurtosis 4.193542

-> meth= MaxLIP4
residue

Percentiles		Smallest	
1%	.023355	.01886	
5%	.037045	.02189	
10%	.048455	.02482	Obs 200
25%	.07965	.02728	Sum of Wgt. 200

50%	.11889	Mean	.1434092
	Largest	Std. Dev.	.120316
75%	.157125	.55377	
90%	.249195	.62339	Variance .0144759
95%	.35951	.71483	Skewness 3.557626
99%	.66911	1.03541	Kurtosis 21.2153

-> meth= MaxLIP5
residue

Percentiles		Smallest	
1%	.030295	.02294	

5%	.04658	.02847	
10%	.060685	.03212	Obs 200
25%	.08897	.03452	Sum of Wgt. 200
50%	.116055		Mean .1451988
		Largest	Std. Dev. .087273
75%	.178155	.38303	
90%	.287105	.39794	Variance .0076166
95%	.33202	.41706	Skewness 1.300914
99%	.4075	.46759	Kurtosis 4.177967

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.0600	0.487	
Novigen:	-0.0400	0.726	
Combined K-S:	0.0600	0.864	0.837

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.1600	0.006	
MaxLIP1:	-0.0500	0.607	
Combined K-S:	0.1600	0.012	0.009

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.2048	0.000	
Allender:	-0.0347	0.787	
Combined K-S:	0.2048	0.000	0.000

. qqplot logres1 logres1, saving(picnov101) xlab(-8(2) 0) ylab(-8(2) 0)
file picnov101.gph already exists
r(602);

```
. qqplot logres1 logres1, saving(picnov11) xlab(-8(2) 0) ylab(-8(2) 0)

. qqplot logres1 logres1, saving(picnov12) xlab(-8(2) 0) ylab(-8(2) 0)

. qqplot logres1 logres2, saving(picnov13) xlab(-8(2) 0) ylab(-8(2) 0)

. qqplot logres1 logres3, saving(picnov14) xlab(-8(2) 0) ylab(-8(2) 0)

. qqplot logres1 logres4, saving(picnov15) xlab(-8(2) 0) ylab(-8(2) 0)

. graph using picnov11 picnov13 picnov14 picnov15, margin(15) saving(picnov10)

.
```

Q-Q PLOT: novartis_diazinon_peaches

STATA OUTPUT/LOGFILE: PDP Single-serving Special Study

```
label list
method:
           1 original
           2 Allender
           3 MaxLIP4
           4 Novigen

. sort meth

. by meth: summarize residue, detail

-> meth=original
                        residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%      .001816       .0011817
 5%     .0034675       .0015394
10%     .0050123        .001816       Obs                 229
25%     .0096883       .0020533       Sum of Wgt.         229

50%     .0197696                      Mean           .0346431
                       Largest       Std. Dev.      .0385296
75%         .044           .15
90%         .099           .16       Variance       .0014845
95%          .12           .17       Skewness       2.043471
99%          .16           .24       Kurtosis       7.641382

-> meth=Allender
                        residue
-------------------------------------------------------------
      Percentiles      Smallest
 1%      .016251       .014212
 5%      .019556       .014937
10%      .021986       .016251       Obs                 231
25%      .026654       .016676       Sum of Wgt.         231

50%      .032538                     Mean           .035152
                       Largest       Std. Dev.      .0119166
75%      .042244       .067989
90%      .050417        .06859       Variance        .000142
95%       .05794        .08377       Skewness        1.096623
99%       .06859       .083983       Kurtosis        4.739464
```

-> meth= MaxLIP4

residue

Percentiles		Smallest		
1%	.0000152	.0000119		
5%	.0000206	.0000143		
10%	.000025	.0000152	Obs	231
25%	.0000373	.0000162	Sum of Wgt.	231
50%	.00815		Mean	.0305996
	Largest		Std. Dev.	.0726232
75%	.0298	.277		
90%	.0735	.331	Variance	.0052741
95%	.131	.461	Skewness	5.824271
99%	.331	.74	Kurtosis	47.94944

-> meth= Novigen

residue

Percentiles		Smallest		
1%	6.43e-06	9.38e-07		
5%	.0000328	2.80e-06		
10%	.0001093	6.43e-06	Obs	231
25%	.0006945	7.99e-06	Sum of Wgt.	231
50%	.0053245		Mean	.0348873
	Largest		Std. Dev.	.0673469
75%	.0339306	.2970301		
90%	.0963392	.3259095	Variance	.0045356
95%	.1882241	.3350351	Skewness	3.008914
99%	.3259095	.4361157	Kurtosis	13.11701

. with logres meth if meth==1|meth==2: ksmirnov logres by(meth)
time-series operators not allowed
r(101);

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.4808	0.000	

```
 Allender:          -0.1312    0.019
 Combined K-S:       0.4808    0.000      0.000

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
 original:          0.0303    0.810
 MaxLIP4:           -0.4242    0.000
 Combined K-S:       0.4242    0.000      0.000

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

 Smaller group       D       P-value  Corrected
 ------------------------------------------------
 original:          0.0562    0.484
 Novigen:           -0.3977    0.000
 Combined K-S:       0.3977    0.000      0.000

. qqplot logres1 logres1, saving(picpdp11) xlab(-14(2) 0) ylab(-14(2) 0)
file picpdp11.gph already exists
r(602);

. qqplot logres1 logres1, saving(picpdp1) xlab(-14(2) 0) ylab(-14(2) 0)

. qqplot logres1 logres2, saving(picpdp2) xlab(-14(2) 0) ylab(-14(2) 0)

. qqplot logres1 logres3, saving(picpdp3) xlab(-14(2) 0) ylab(-14(2) 0)

. qqplot logres1 logres4, saving(picpdp4) xlab(-14(2) 0) ylab(-14(2) 0)

. graph using picpdp1 picpdp2 picpdp3 picpdp4, margin(15) saving(pdppic0)

.
```