Residuals of Model 2005

Absolute Values of Residuals of Model 2005
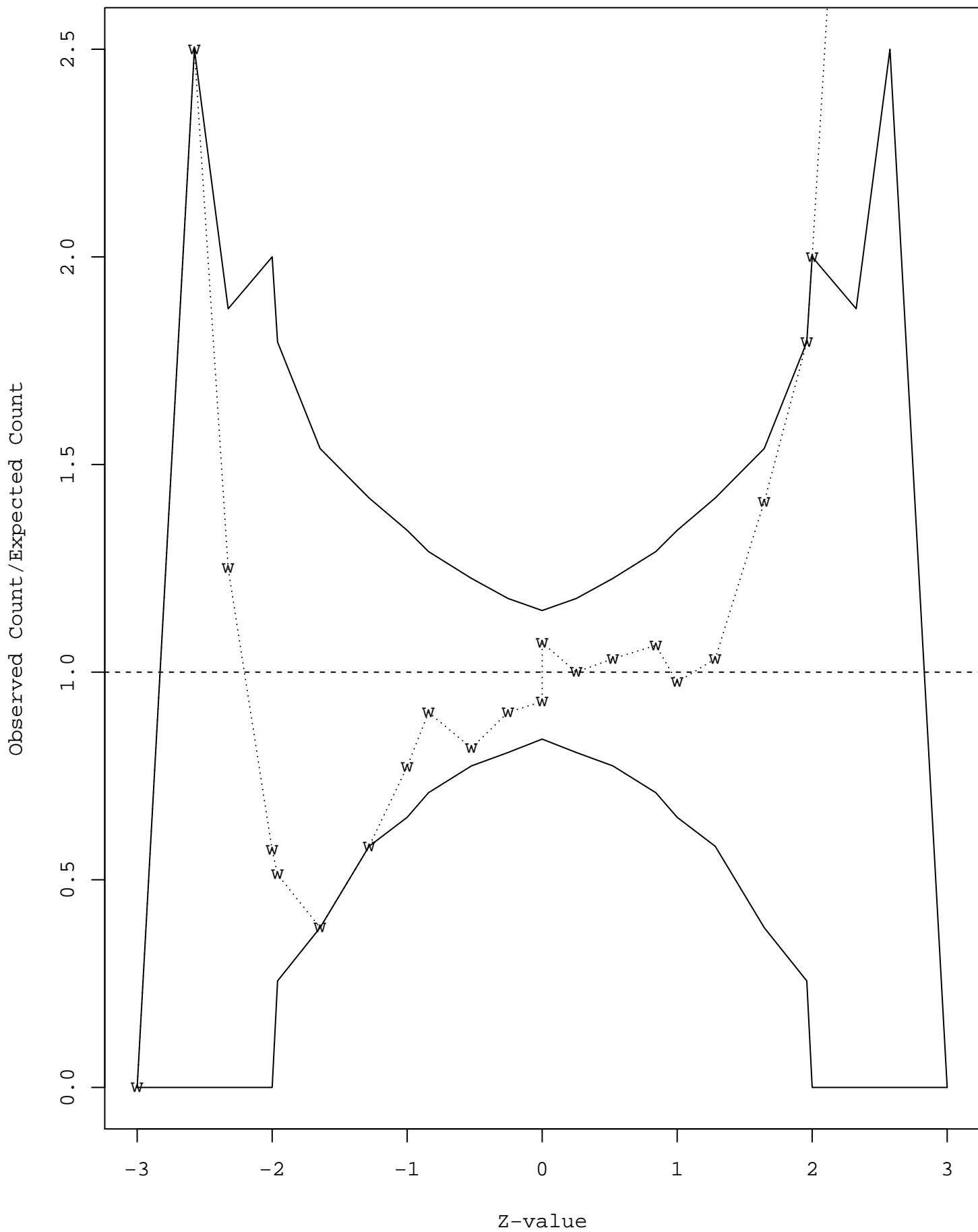
Distribution of Residuals of Model 2005

Shapiro-Wilk test p-value = 0.02039

WRES SD = 1.012

Shapiro-Wilk test p-value = 0.2207

CWRES SD = 1.002

Shapiro-Wilk test p-value = 4.456e-05

IWRES SD = 0.7904
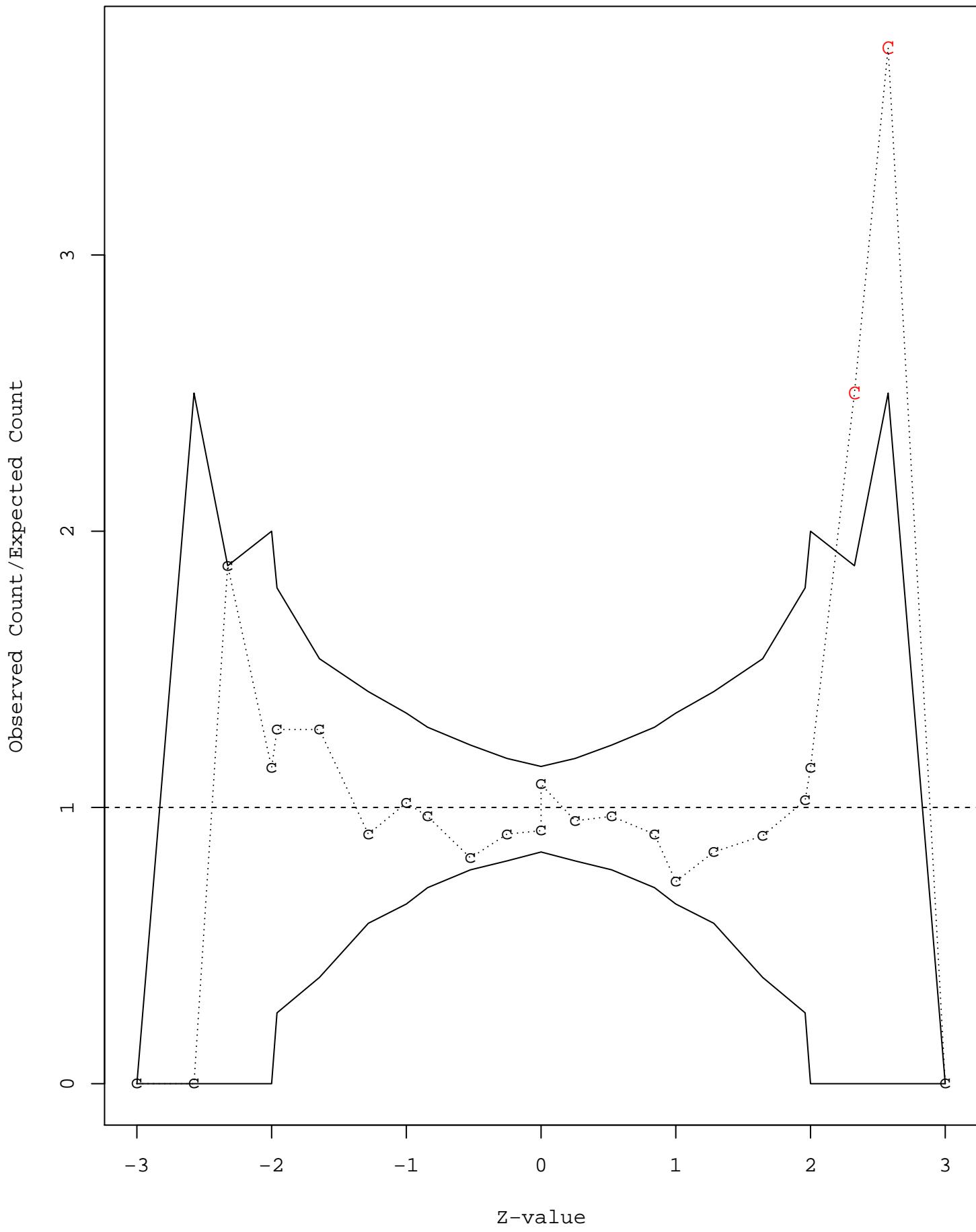
Test of residual counts using binomial distribution

|	Z-value	Percent	Expected	LB	UB	WRES Cnt	WRES p-val	CWRE Cnt	CWRE p-val	IWRE Cnt	IWRE p-val
[1,]	-3.000	0.13	0.2	0	0	0	0.189	0	0.189	0	0.189
[2,]	-2.576	0.50	0.8	0	2	2	0.043	0	0.460	2	0.043
[3,]	-2.326	1.00	1.6	0	3	2	0.203	3	0.071	2	0.203
[4,]	-2.000	2.28	3.5	0	7	2	0.313	4	0.278	3	0.470
[5,]	-1.960	2.50	3.9	1	7	2	0.253	5	0.193	3	0.456
[6,]	-1.645	5.00	7.8	3	12	3	0.046	10	0.155	4	0.109
[7,]	-1.282	10.00	15.5	9	22	9	0.047	14	0.408	6	0.004
[8,]	-1.000	15.87	24.6	16	33	19	0.130	25	0.412	14	0.010
[9,]	-0.842	20.00	31.0	22	40	28	0.313	30	0.468	18	0.004
[10,]	-0.524	30.00	46.5	36	57	38	0.079	38	0.079	30	0.002
[11,]	-0.253	40.00	62.0	50	73	56	0.184	56	0.184	44	0.002
[12,]	0.000	50.00	77.5	65	89	72	0.211	71	0.168	74	0.315
[13,]	0.000	50.00	77.5	65	89	83	0.168	84	0.130	81	0.260
[14,]	0.253	40.00	62.0	50	73	62	0.465	59	0.343	52	0.059
[15,]	0.524	30.00	46.5	36	57	48	0.359	45	0.435	30	0.002
[16,]	0.842	20.00	31.0	22	40	33	0.303	28	0.313	15	0.000
[17,]	1.000	15.87	24.6	16	33	24	0.498	18	0.086	10	0.000
[18,]	1.282	10.00	15.5	9	22	16	0.382	13	0.305	9	0.047
[19,]	1.645	5.00	7.8	3	12	11	0.089	7	0.486	4	0.109
[20,]	1.960	2.50	3.9	1	7	7	0.042	4	0.346	3	0.456
[21,]	2.000	2.28	3.5	0	7	7	0.026	4	0.278	3	0.470
[22,]	2.326	1.00	1.6	0	3	6	0.001	4	0.020	1	0.460
[23,]	2.576	0.50	0.8	0	2	5	0.000	3	0.008	1	0.182
[24,]	3.000	0.13	0.2	0	0	1	0.019	0	0.189	0	0.189
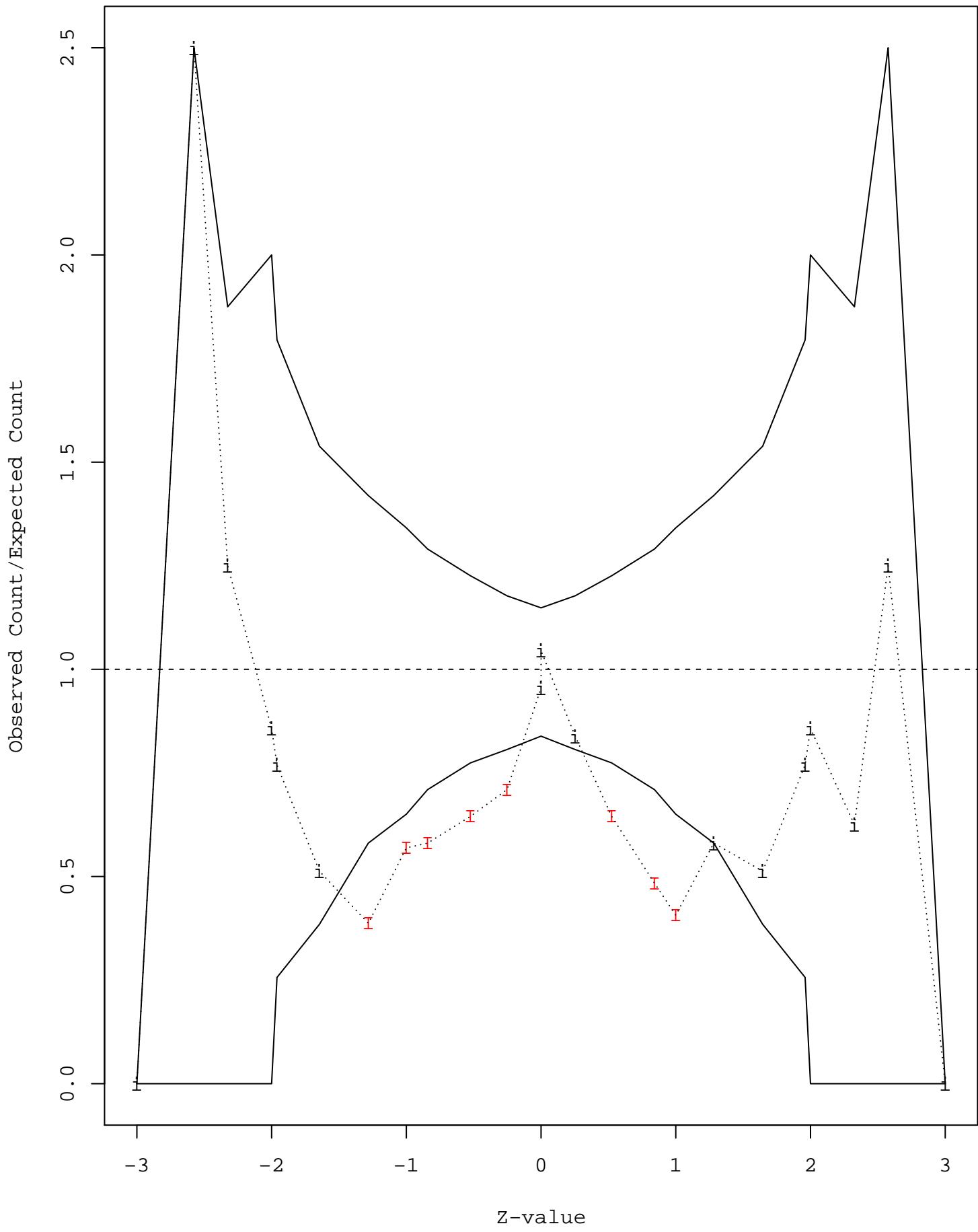
Ratio of WRES Count to Expected Count

Observed Count/Expected Count

Z-value

Ratio of CWRES Count to Expected Count

Ratio of IWRES Count to Expected Count

Extreme WRES values larger than 3

```
     ID TIME   DV   PRED   IPRE   WRES   CWRE    IWRE
661 52    83 38.1 19.803 32.681 3.1724 2.5987 1.7525
```

Extreme WRES values larger than 3

```
     ID TIME   DV   PRED   IPRE   WRES   CWRE    IWRE
661 52    83 38.1 19.803 32.681 3.1724 2.5987 1.7525
```

Extreme WRES values larger than 2

```
      ID  TIME    DV     PRED    IPRE    WRES     CWRE     IWRE
189 14    2.3  25.6  15.4680  19.934   2.6333   2.4848   2.17100
254 18    2.8  21.9  14.0280  15.056   2.9219   2.8894   2.76820
367 25   61.5  16.7  17.2170  24.111  -2.6162  -2.4245  -2.69420
375 25  121.5  38.0  21.9800  31.219   2.9490   2.6054   2.23850
591 48    2.8  12.9   9.8193  20.337  -2.6812  -2.4672  -2.83580
602 48  137.9  35.8  13.8950  32.180   2.6817   1.8999   1.17890
630 50   89.0  67.9  40.7800  63.404   2.1020   1.6382   0.96617
661 52   83.0  38.1  19.8030  32.681   3.1724   2.5987   1.75250
701 56   20.0  18.8   8.7761  17.209   2.3609   1.7875   0.62907
```
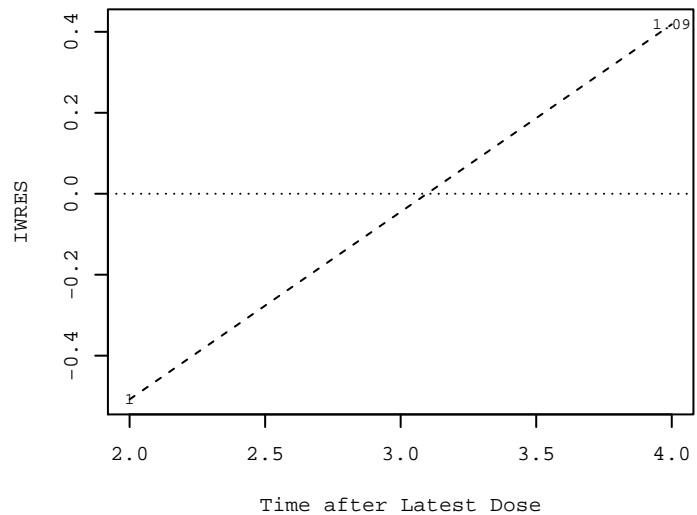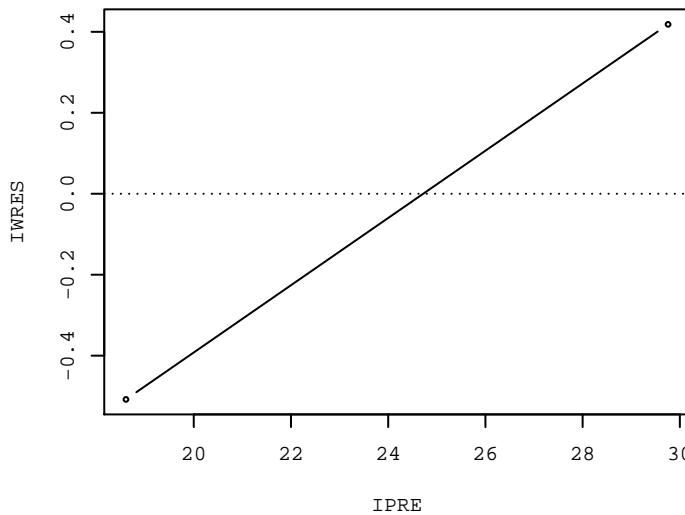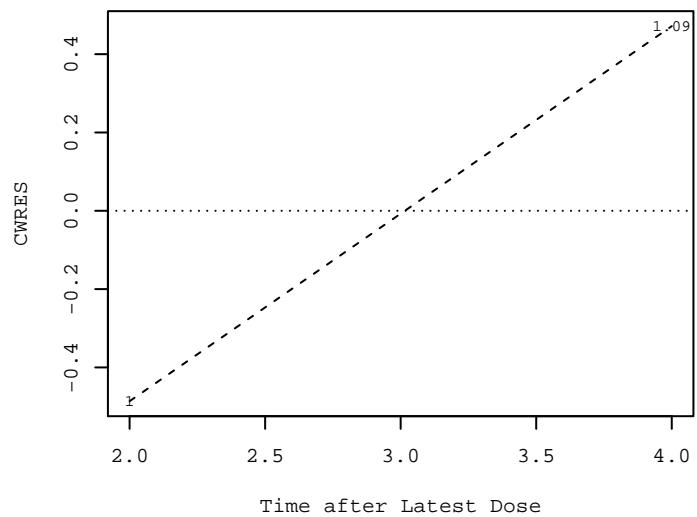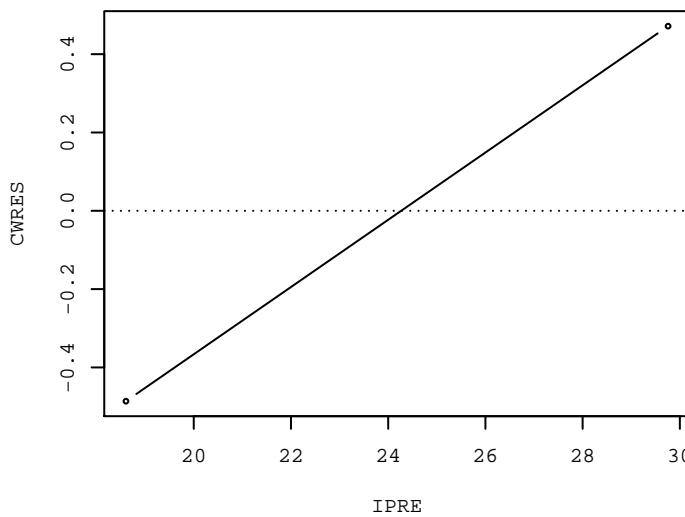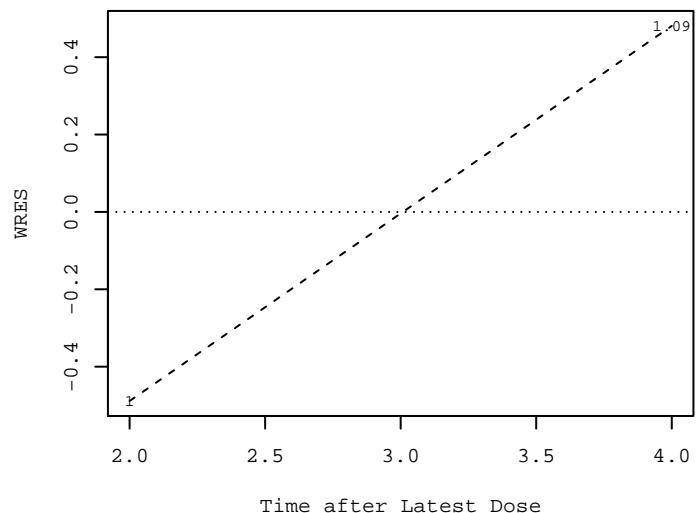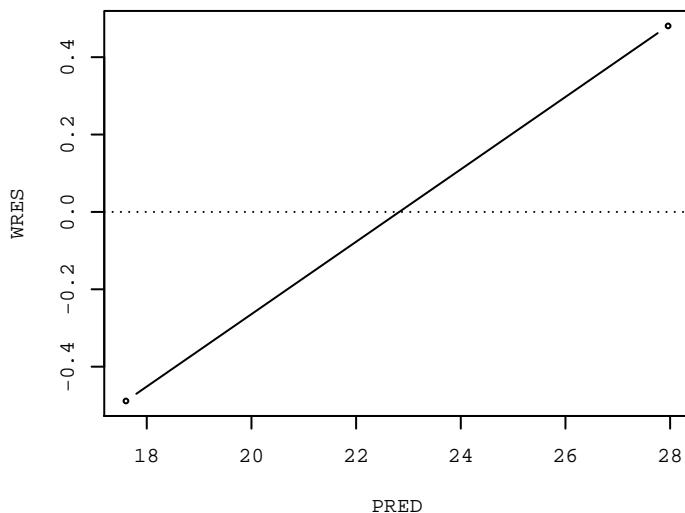
Extreme CWRE values larger than 2

ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
189	14	2.3	25.6 15.4680	19.934	2.6333	2.4848	2.17100
254	18	2.8	21.9 14.0280	15.056	2.9219	2.8894	2.76820
367	25	61.5	16.7 17.2170	24.111	−2.6162	−2.4245	−2.69420
375	25	121.5	38.0 21.9800	31.219	2.9490	2.6054	2.23850
400	28	2.0	16.9 42.2460	18.708	−1.4849	−2.1790	−0.70286
551	42	95.5	13.9 50.4240	16.098	−1.4363	−2.4809	−0.87944
591	48	2.8	12.9 9.8193	20.337	−2.6812	−2.4672	−2.83580
661	52	83.0	38.1 19.8030	32.681	3.1724	2.5987	1.75250

Extreme IWRE values larger than 2
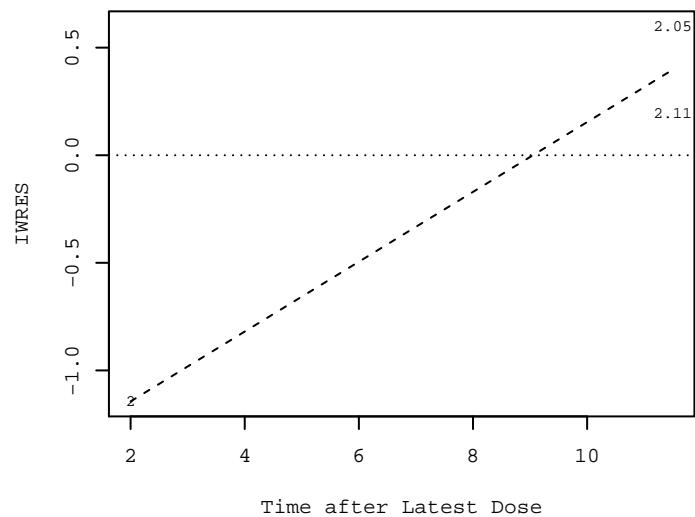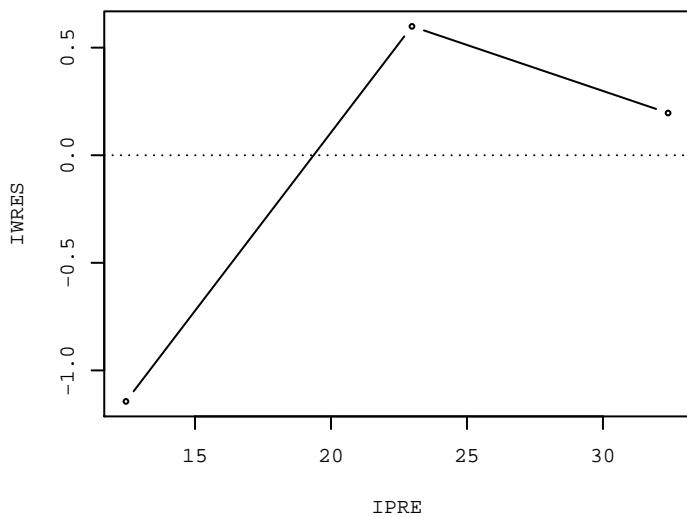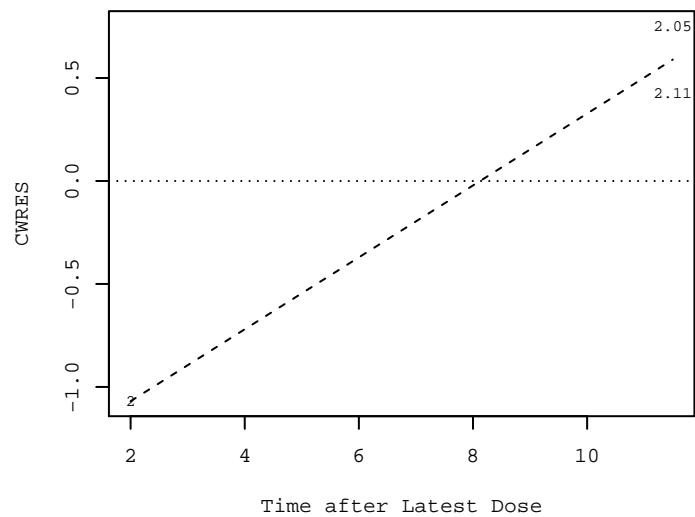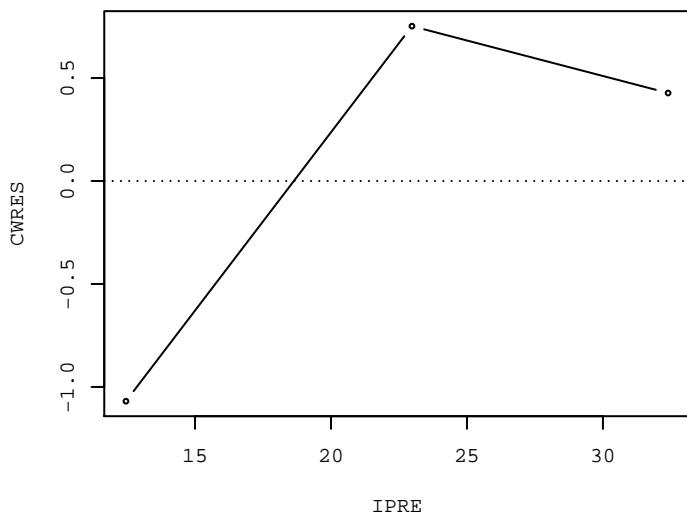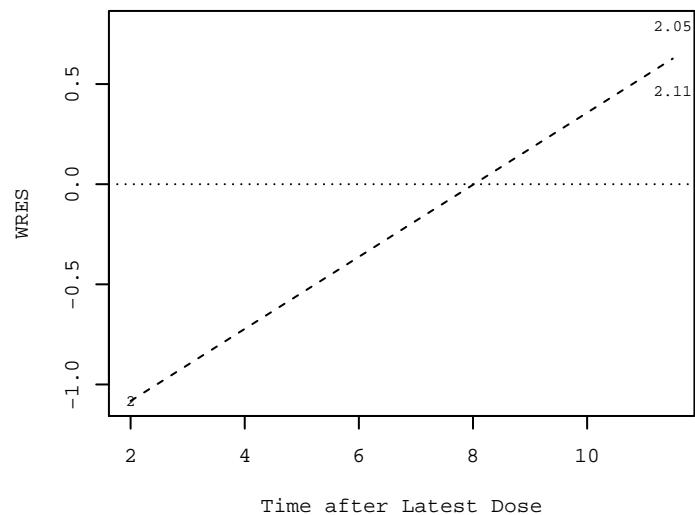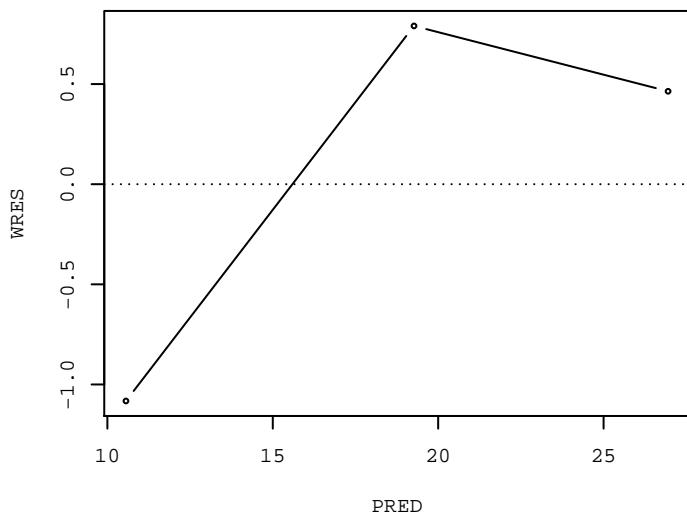
ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
189	14	2.3	25.6	15.4680	19.934	2.6333	2.4848	2.1710
254	18	2.8	21.9	14.0280	15.056	2.9219	2.8894	2.7682
367	25	61.5	16.7	17.2170	24.111	-2.6162	-2.4245	-2.6942
375	25	121.5	38.0	21.9800	31.219	2.9490	2.6054	2.2385
591	48	2.8	12.9	9.8193	20.337	-2.6812	-2.4672	-2.8358
668	52	155.0	31.2	22.7660	38.230	-1.2590	-1.1186	-2.1033

Individiual Residual Curve, ID = 1
IOFV = 7.86461 , OFV per DV = 3.9323 , Run Test(CWRES) p = 1
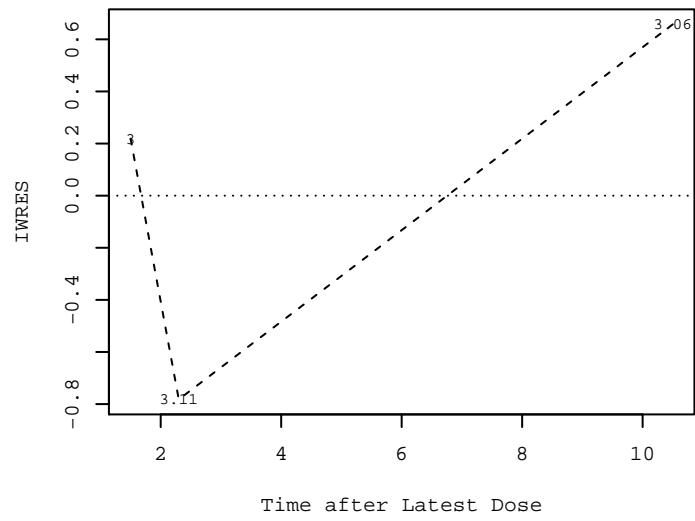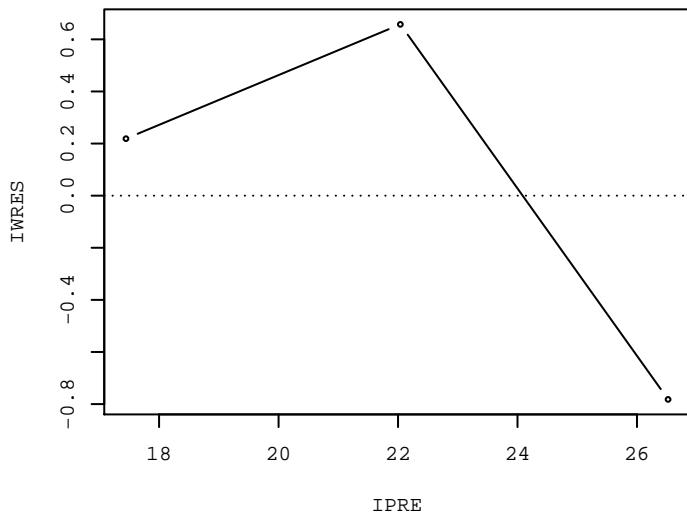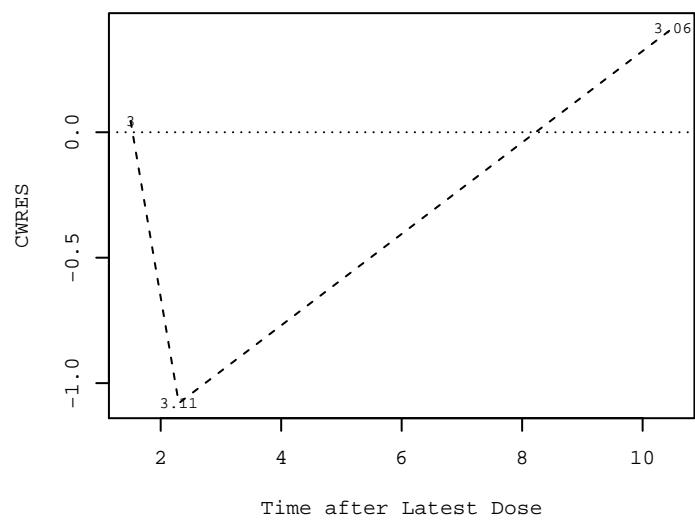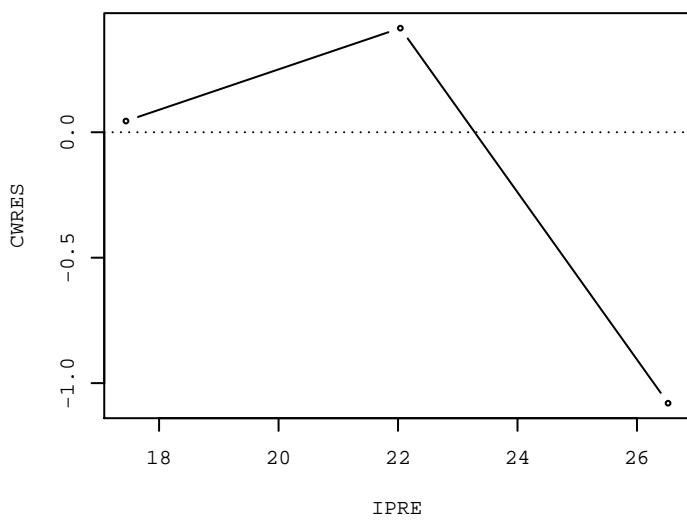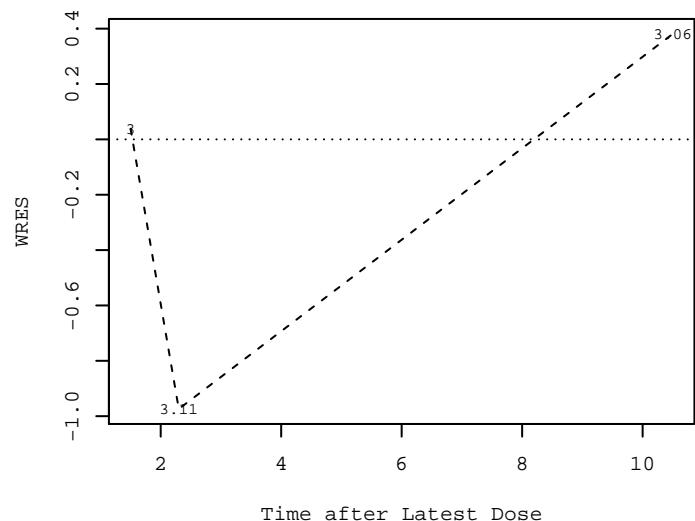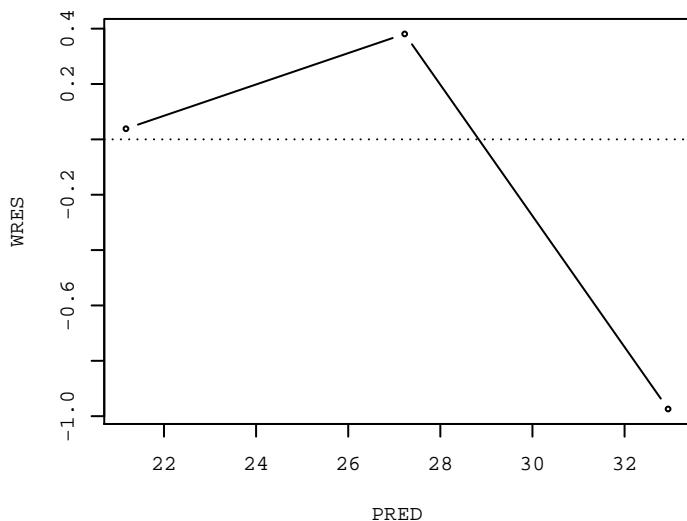
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 2
IOFV = 11.5596 , OFV per DV = 3.8532 , Run Test(CWRES) p = 1
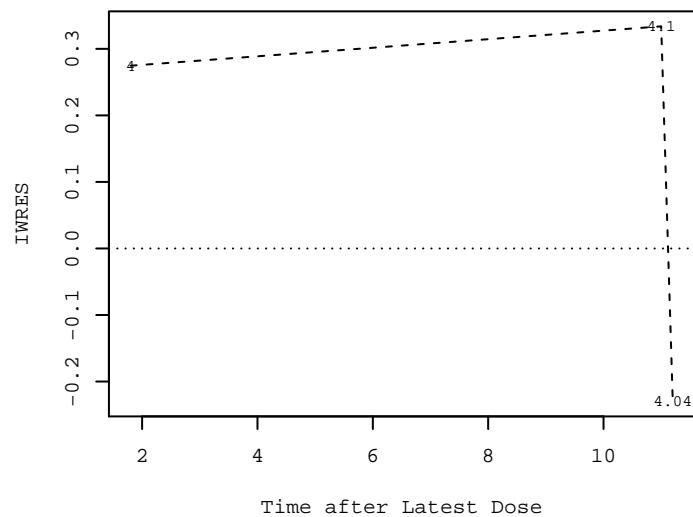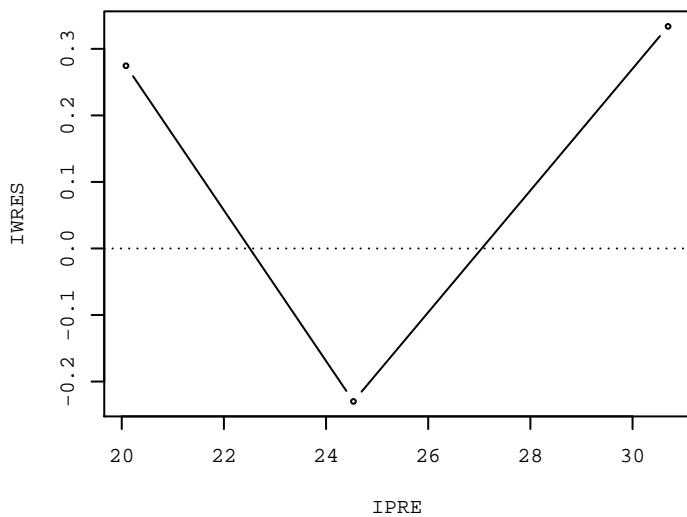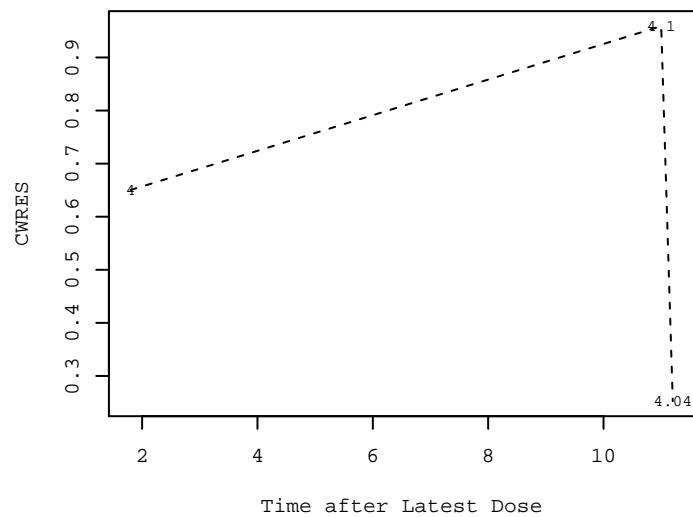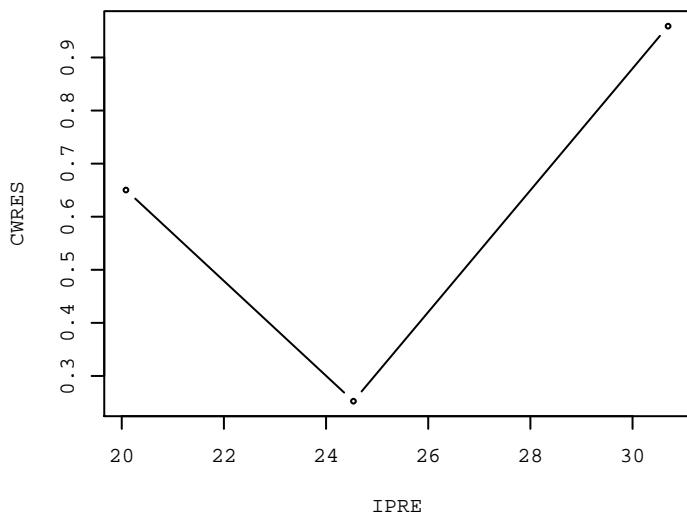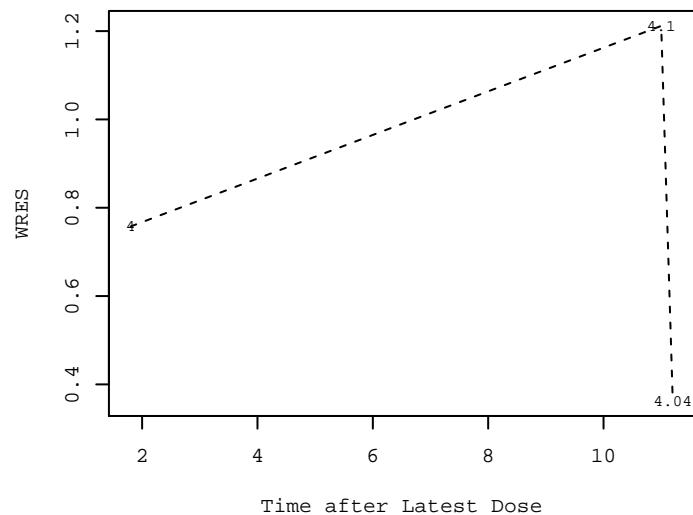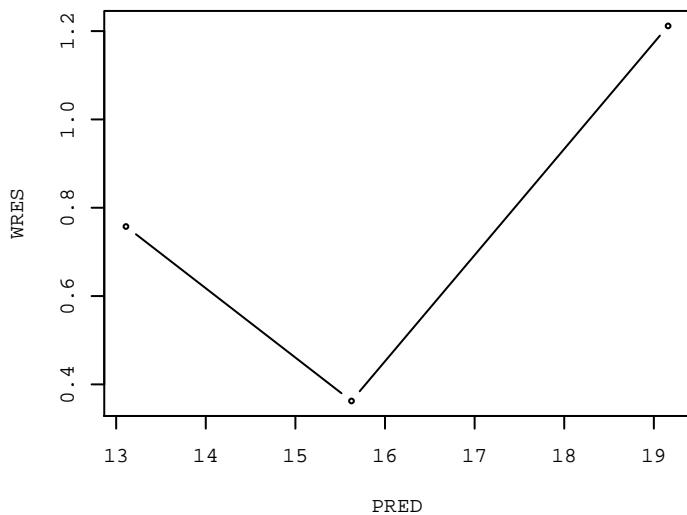
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 3
IOFV = 10.9088 , OFV per DV = 3.6363 , Run Test(CWRES) p = 1
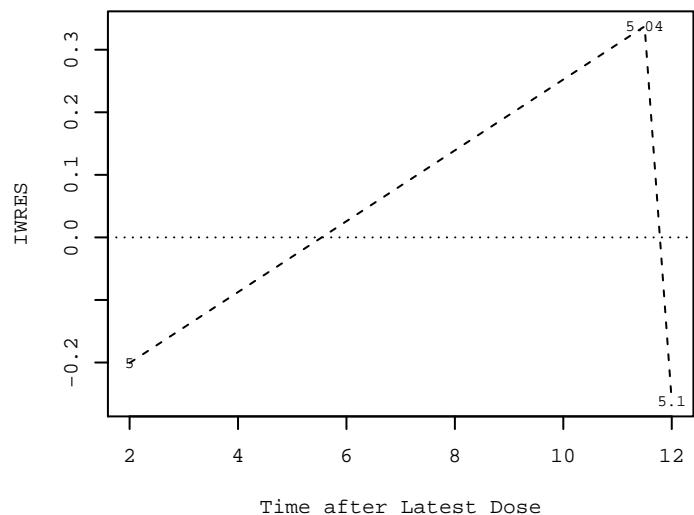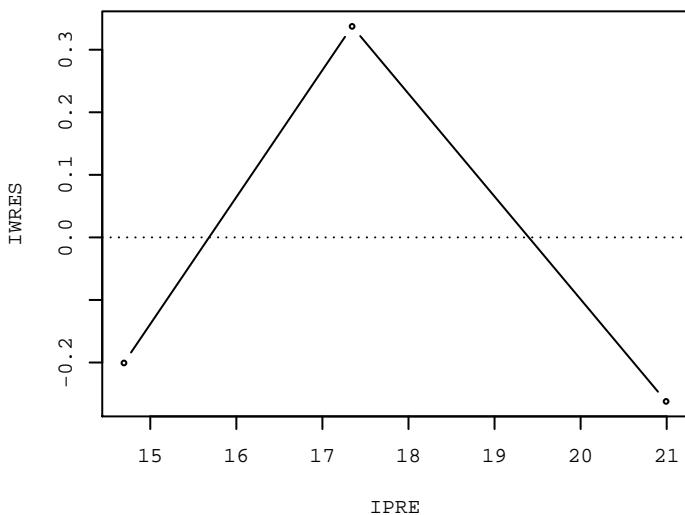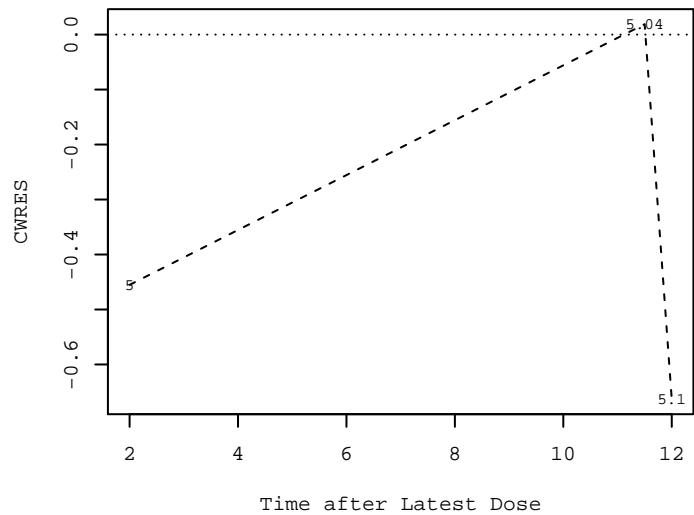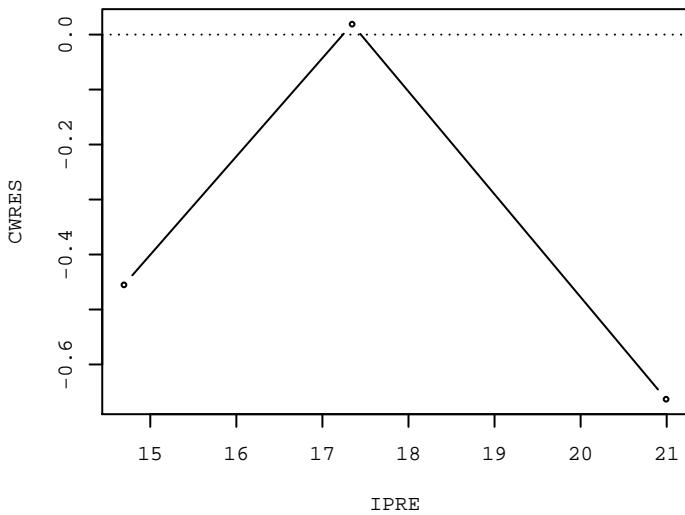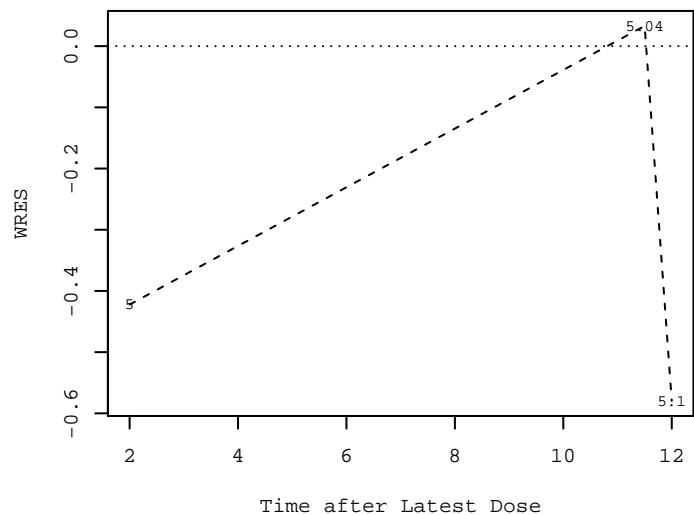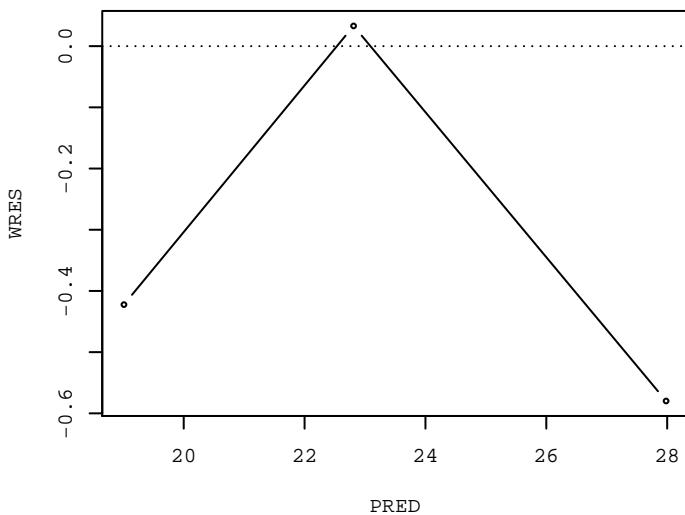
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 4

IOFV = 11.3617 , OFV per DV = 3.7872 , Run Test(CWRES) p = 0.25
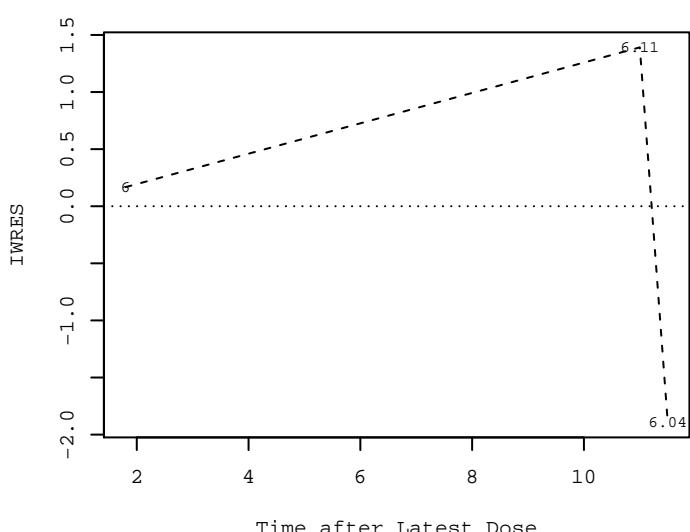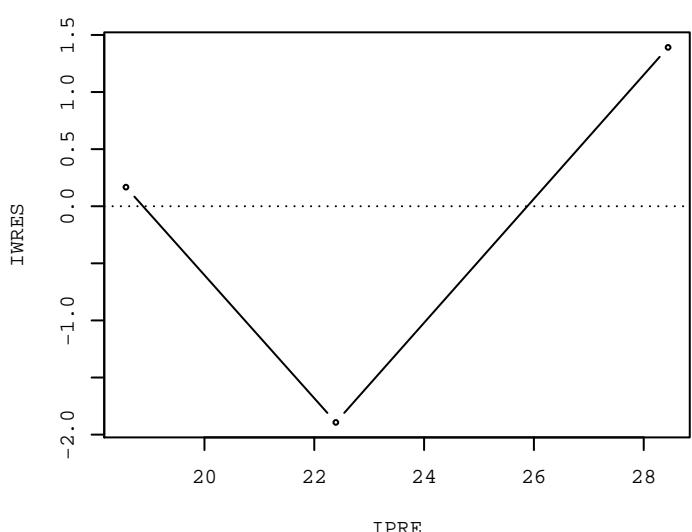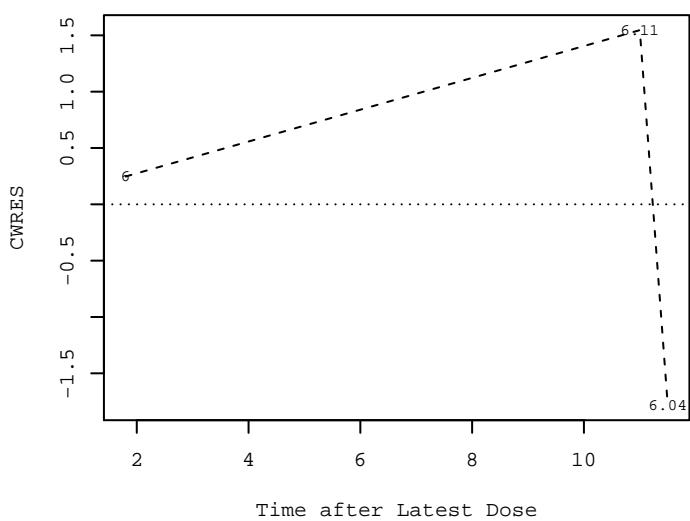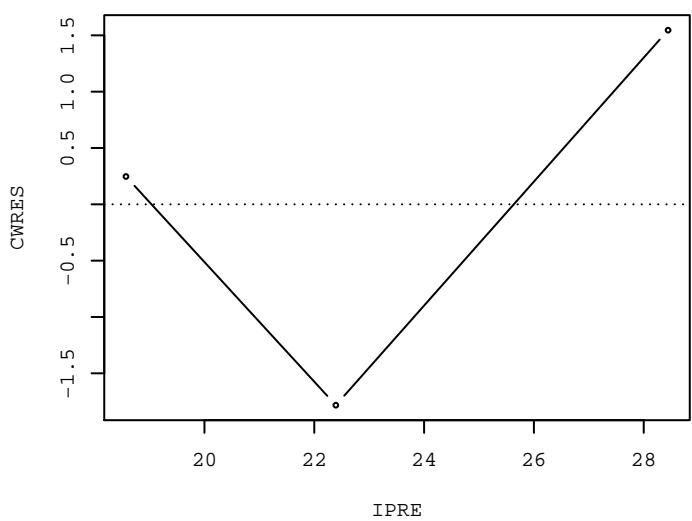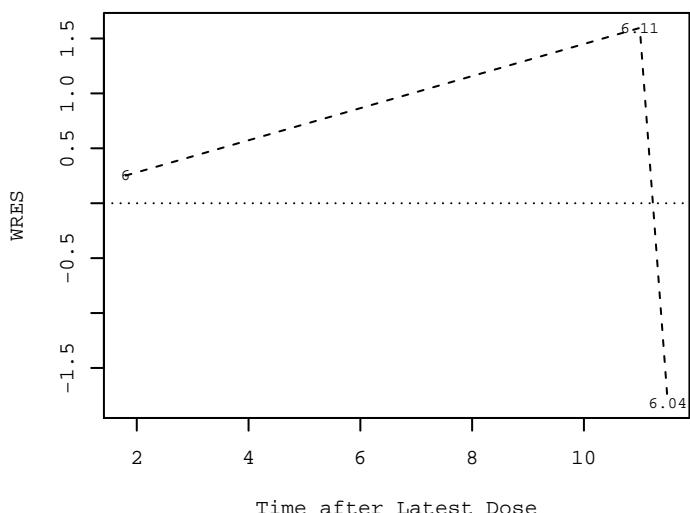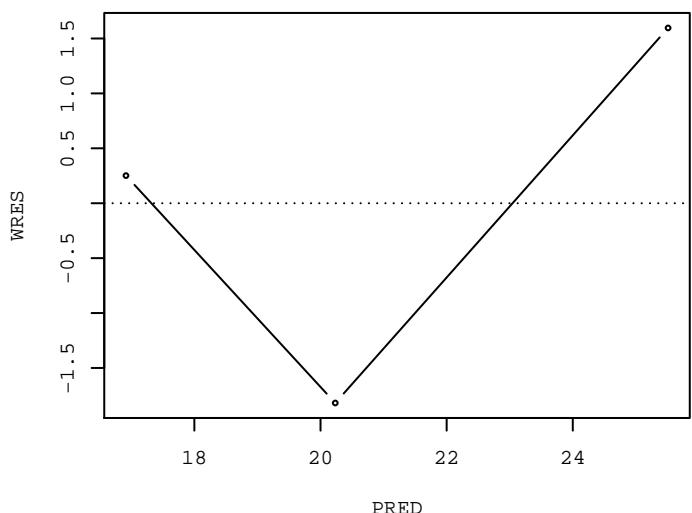
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 5
IOFV = 9.57444 , OFV per DV = 3.1915 , Run Test(CWRES) p = 0.333
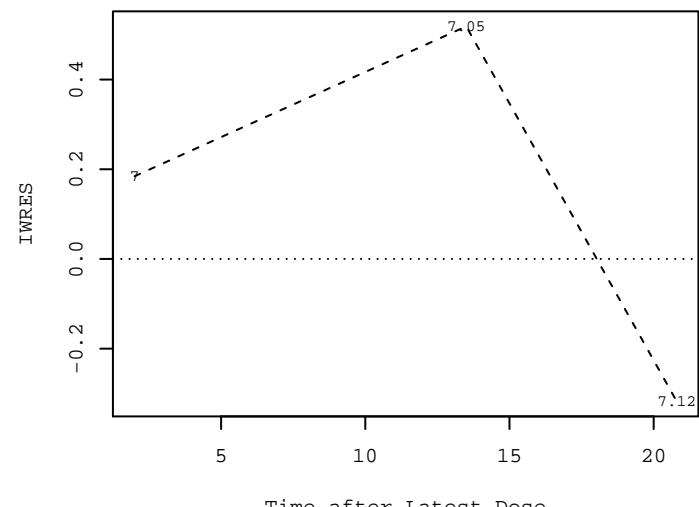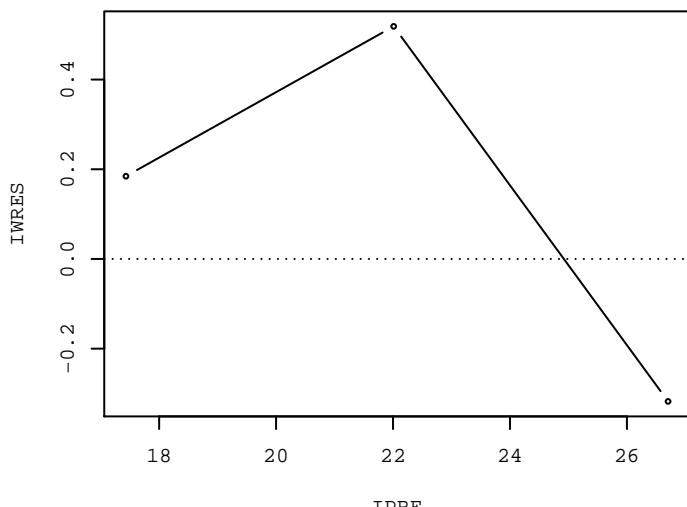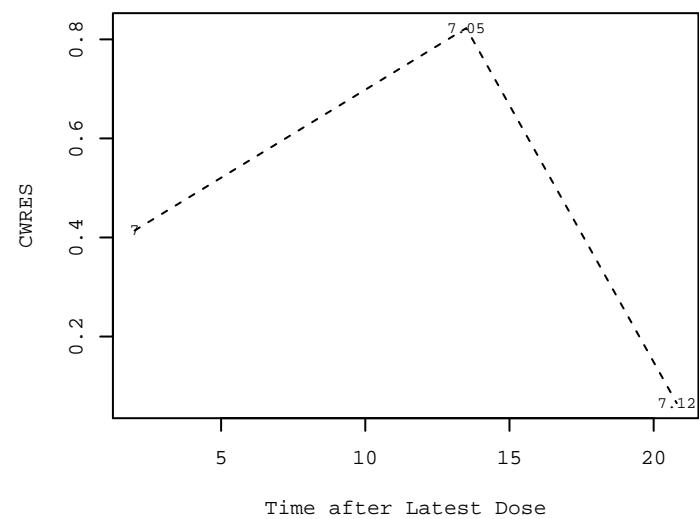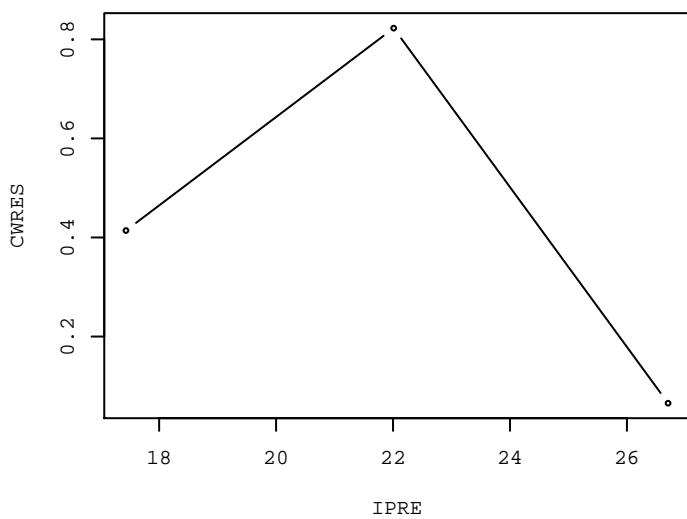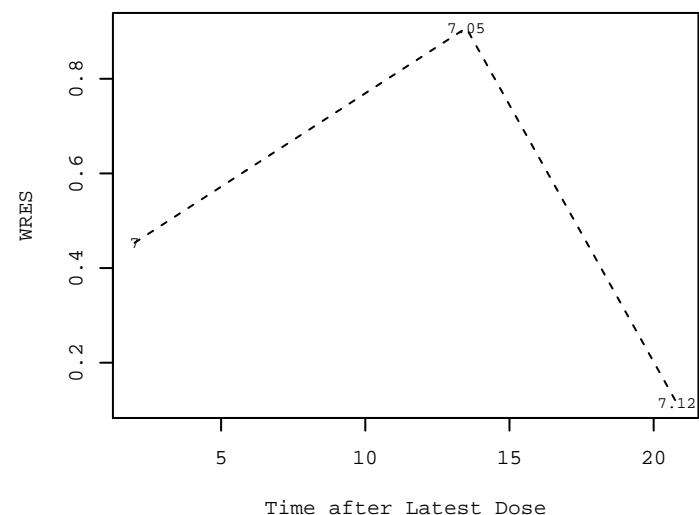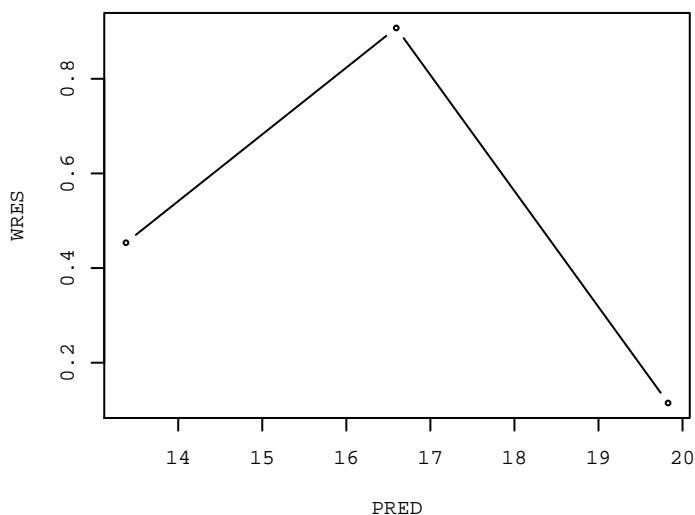
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 6
IOFV = 15.3438 , OFV per DV = 5.1146 , Run Test(CWRES) p = 0.333
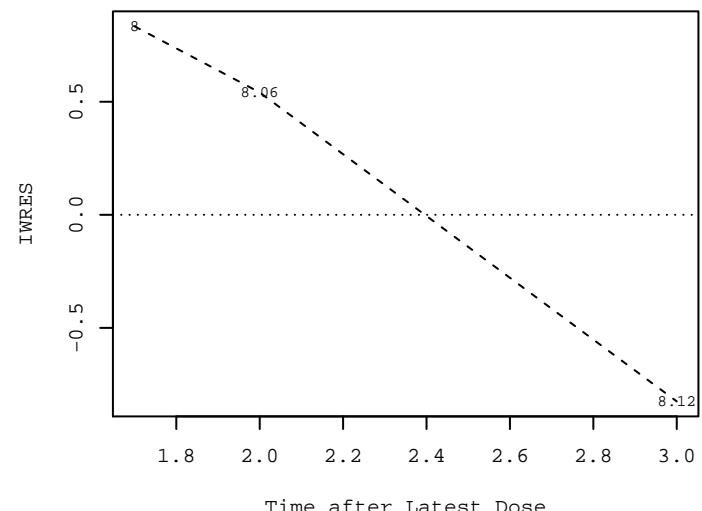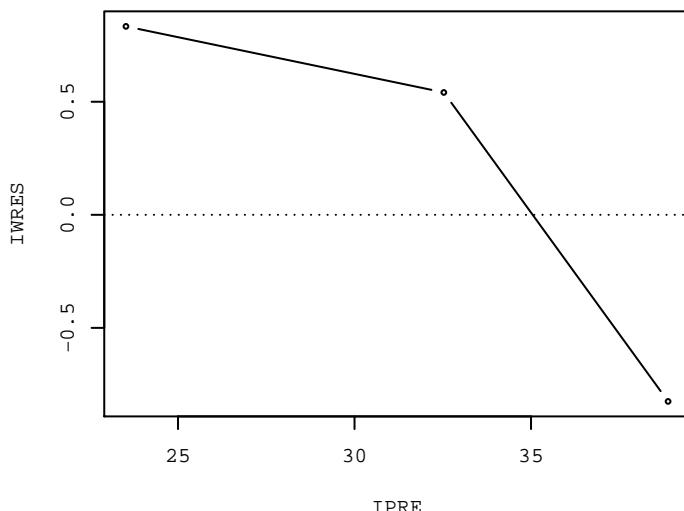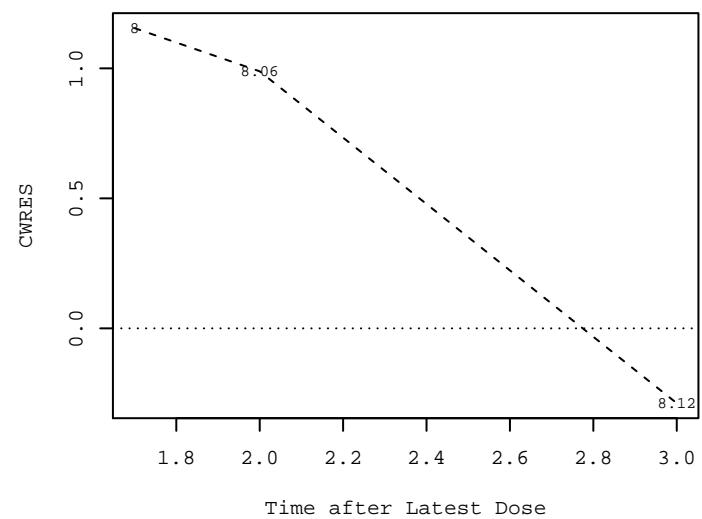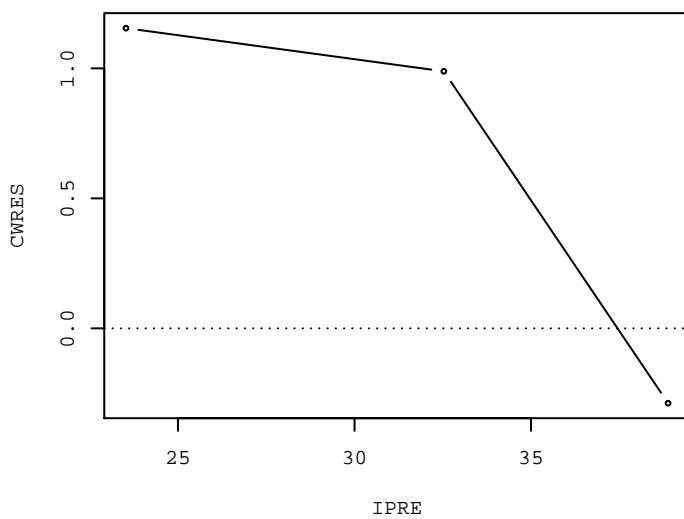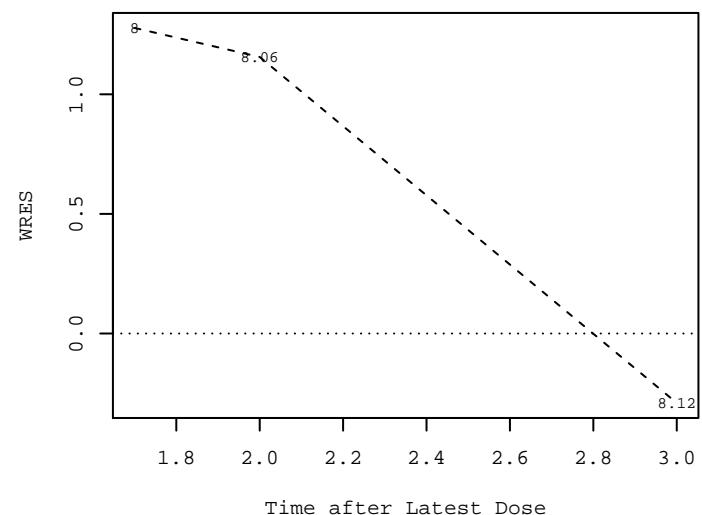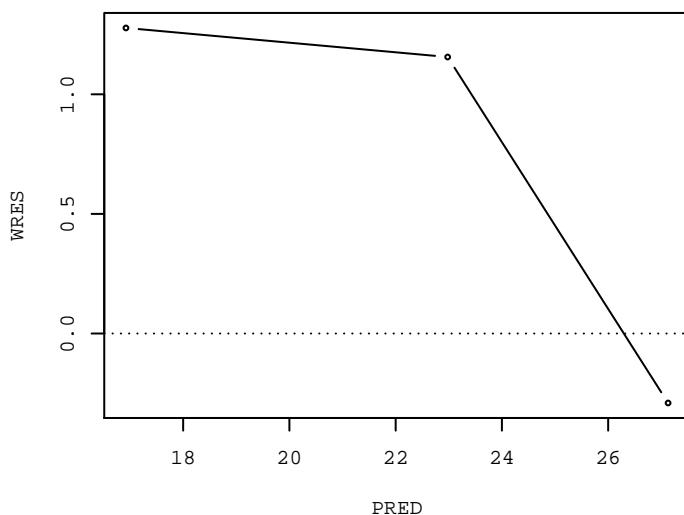
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 7
IOFV = 10.4396 , OFV per DV = 3.4799 , Run Test(CWRES) p = 0.25
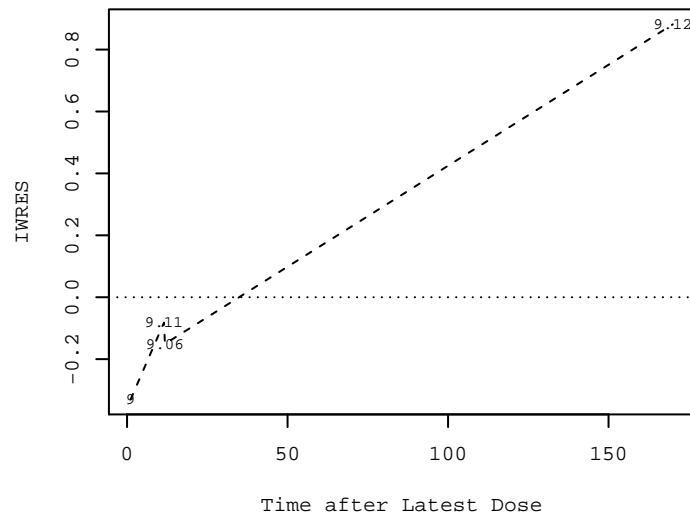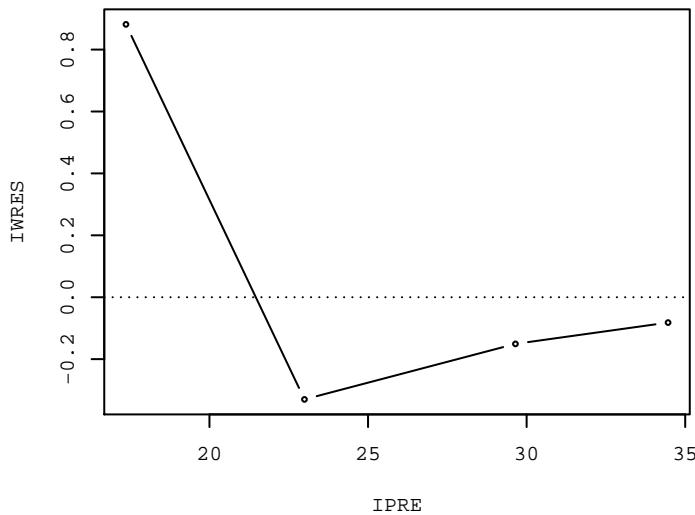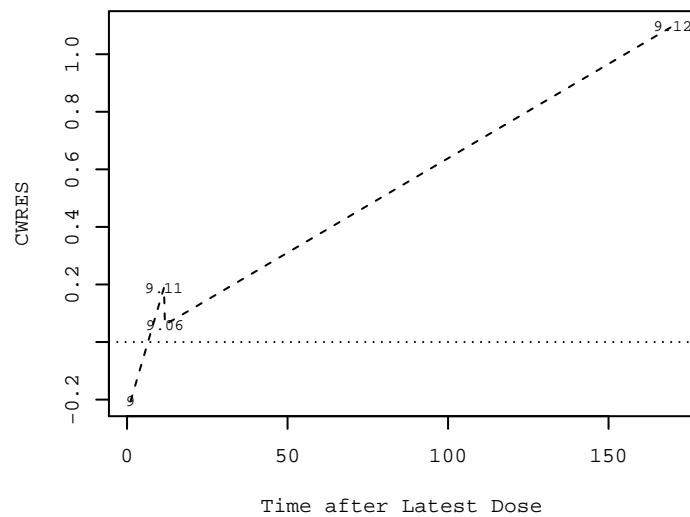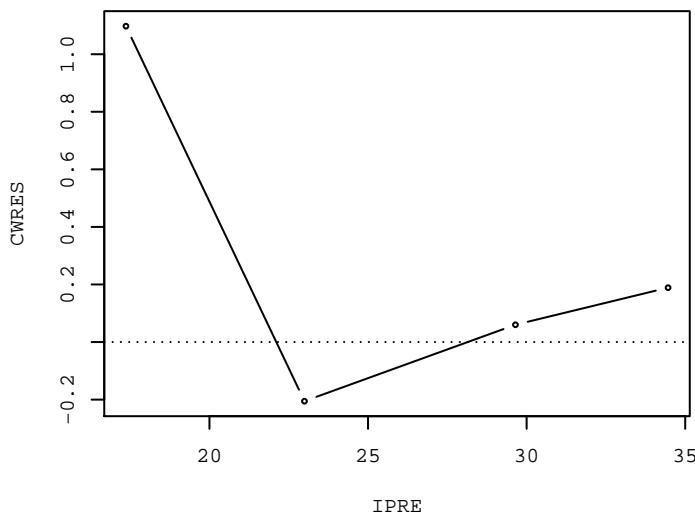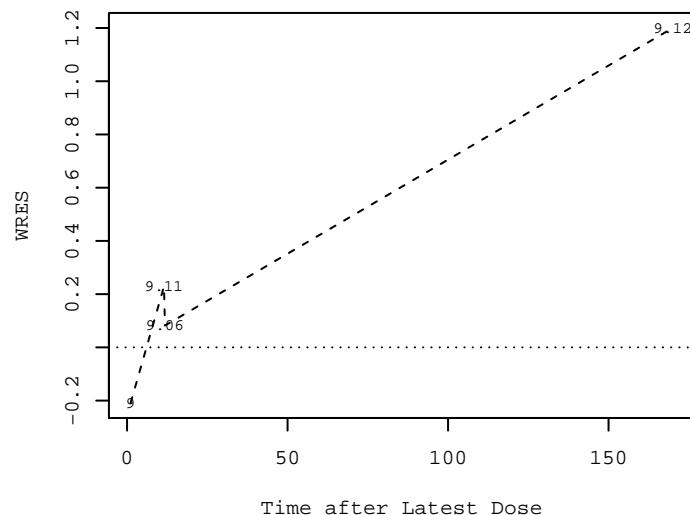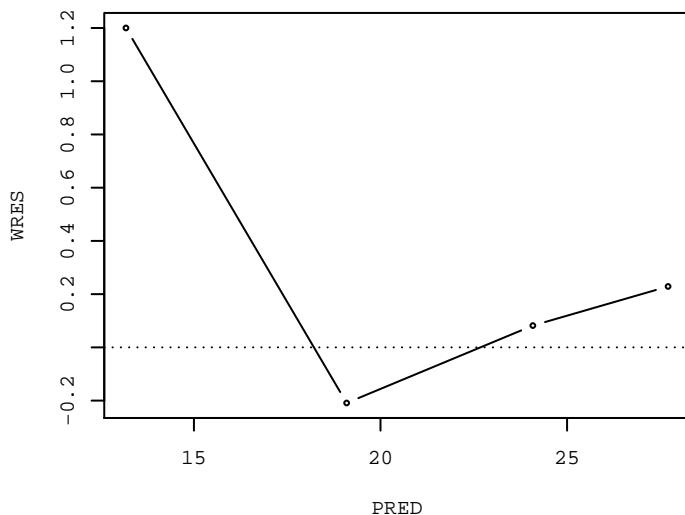

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 8
IOFV = 13.1693 , OFV per DV = 4.3898 , Run Test(CWRES) p = 1
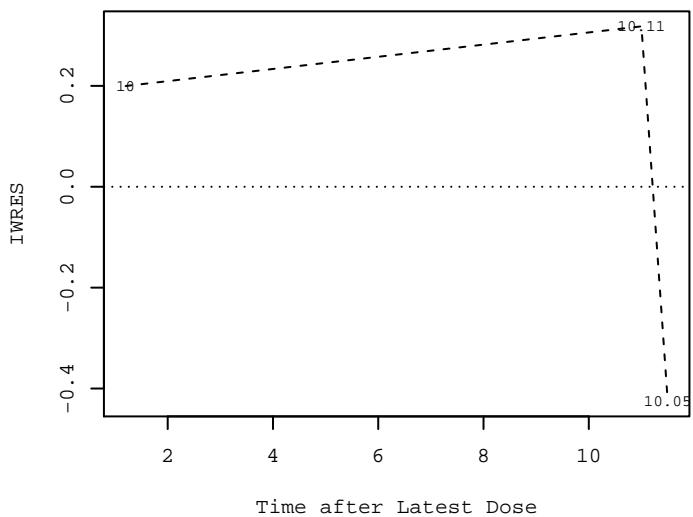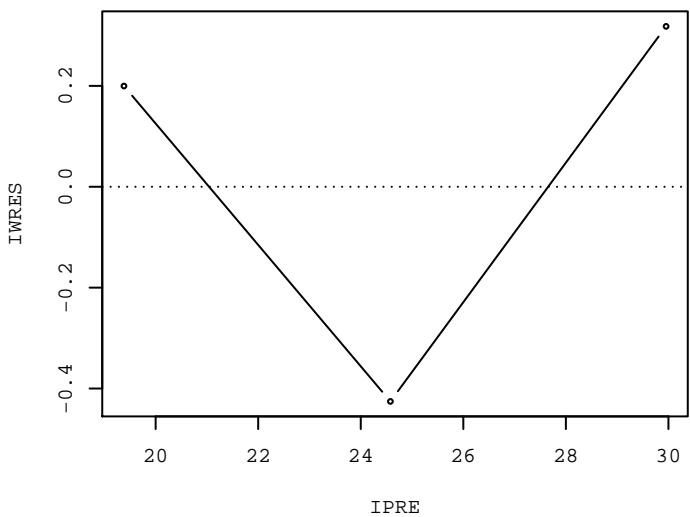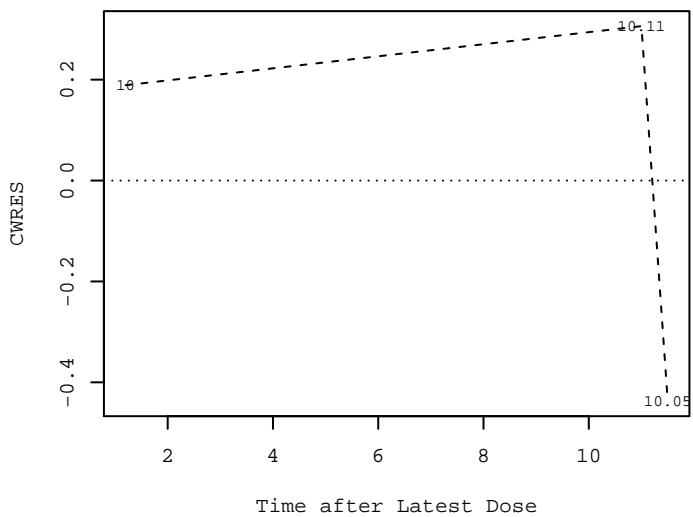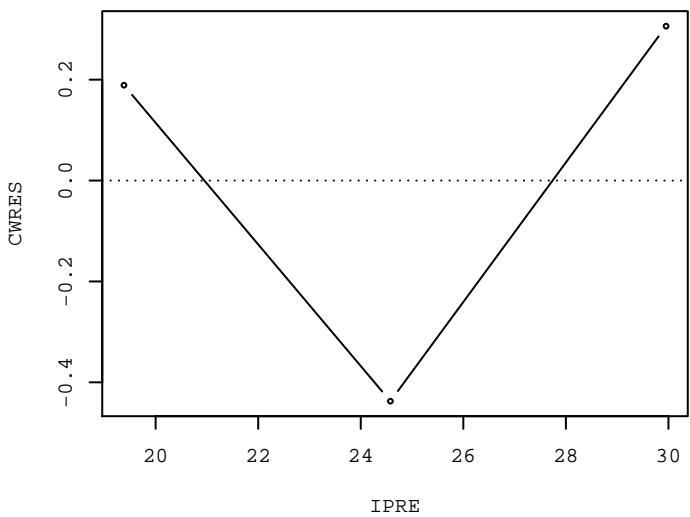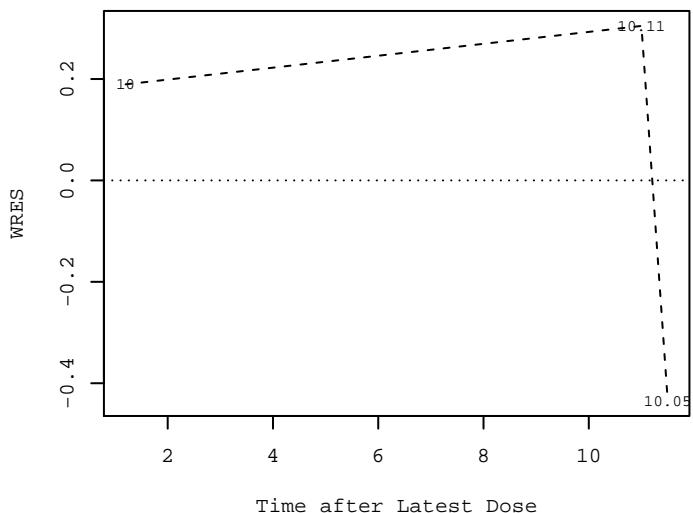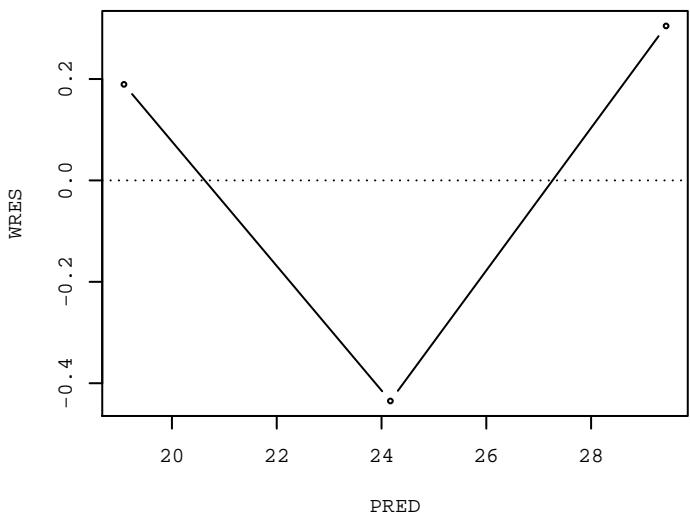

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 9
IOFV = 13.944 , OFV per DV = 3.486 , Run Test(CWRES) p = 0.5
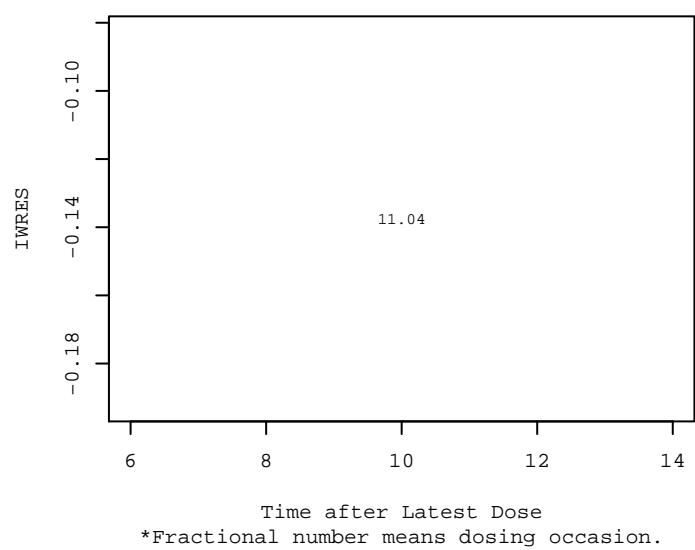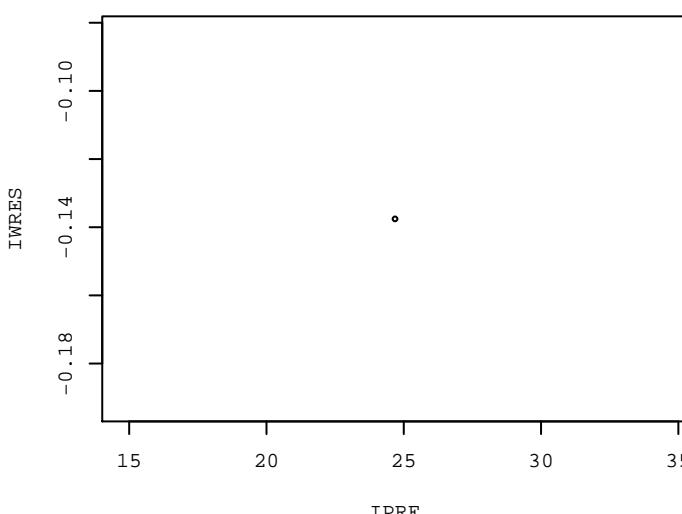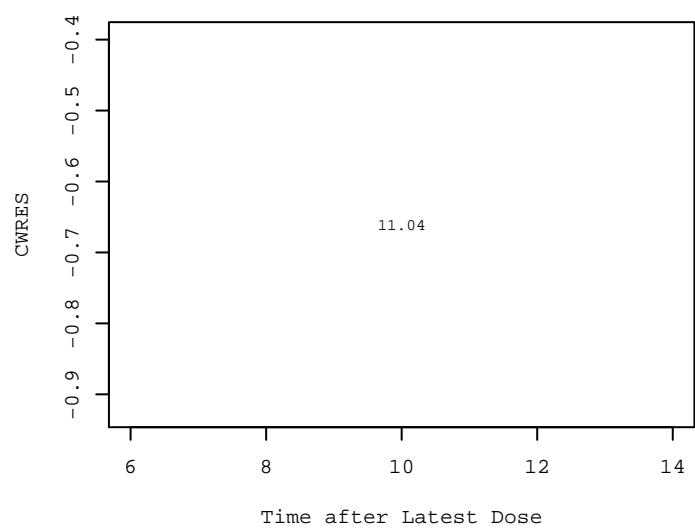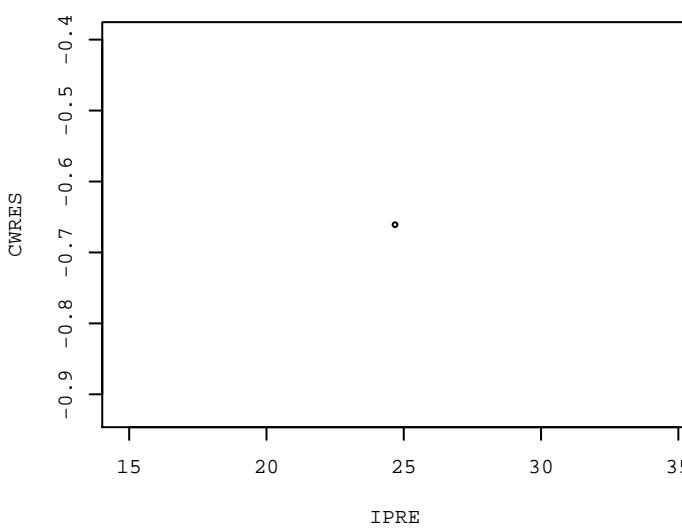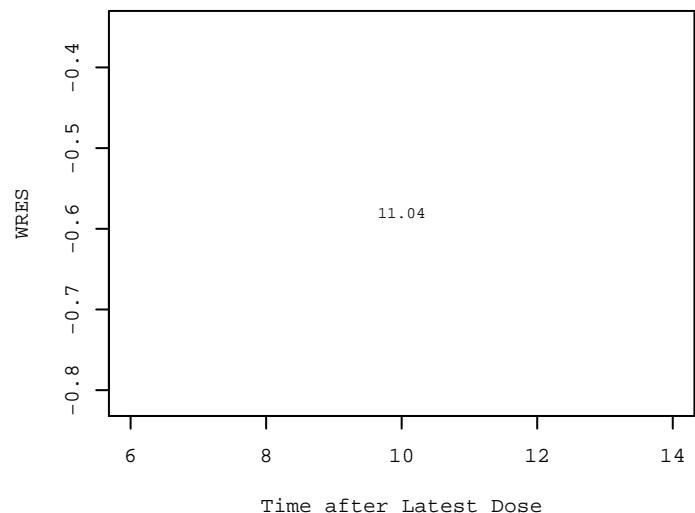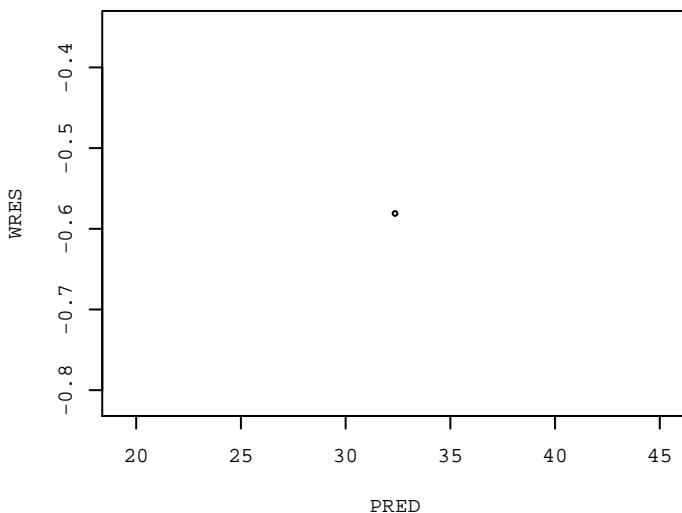
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 10
## IOFV = 10.244 , OFV per DV = 3.4147 , Run Test(CWRES) p = 0.333
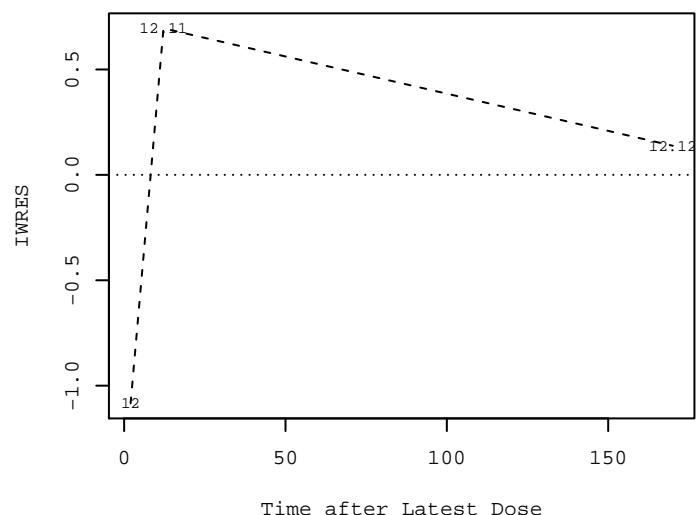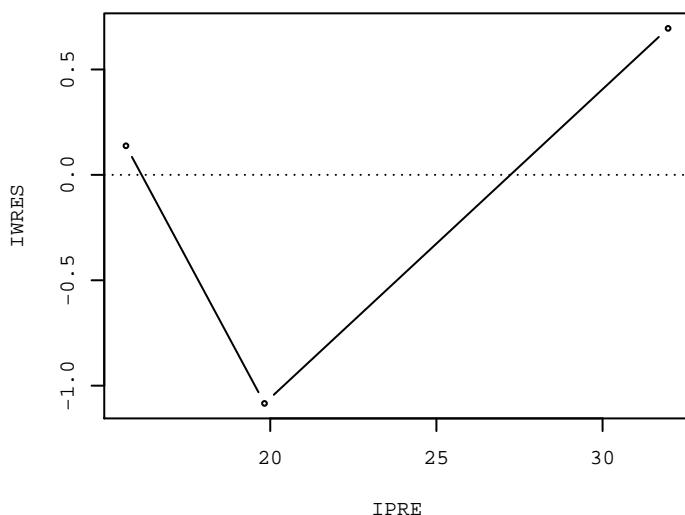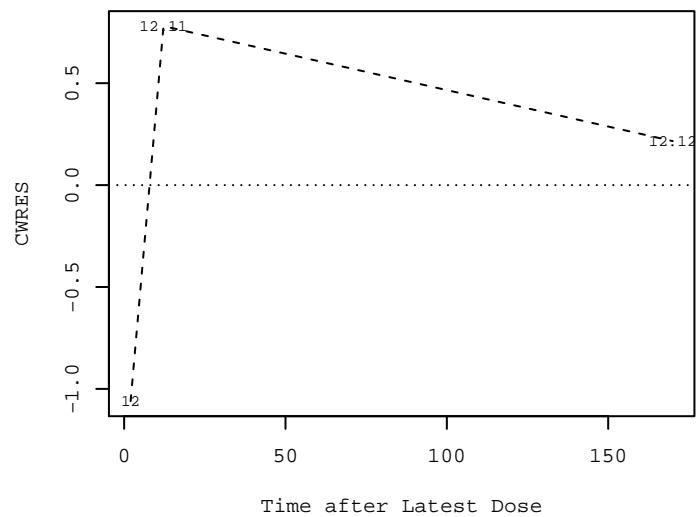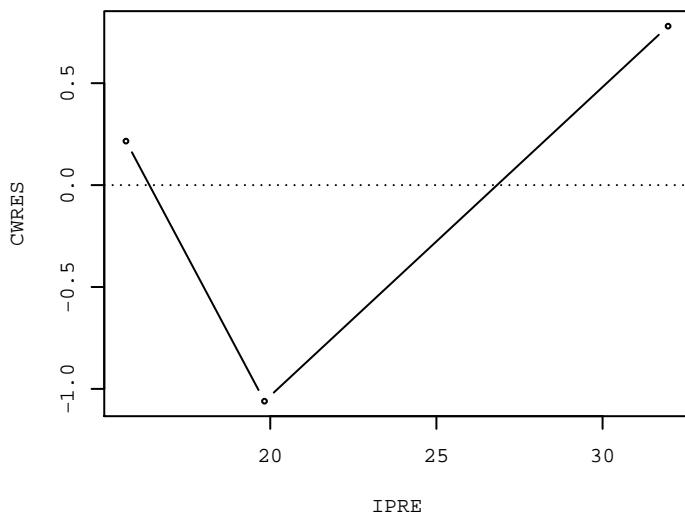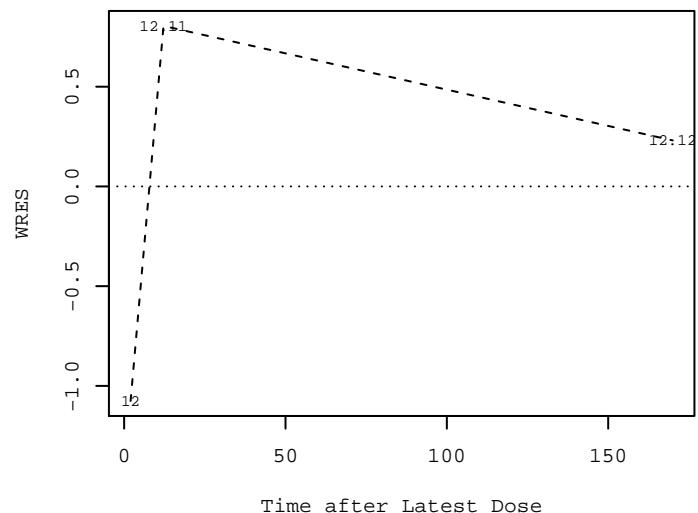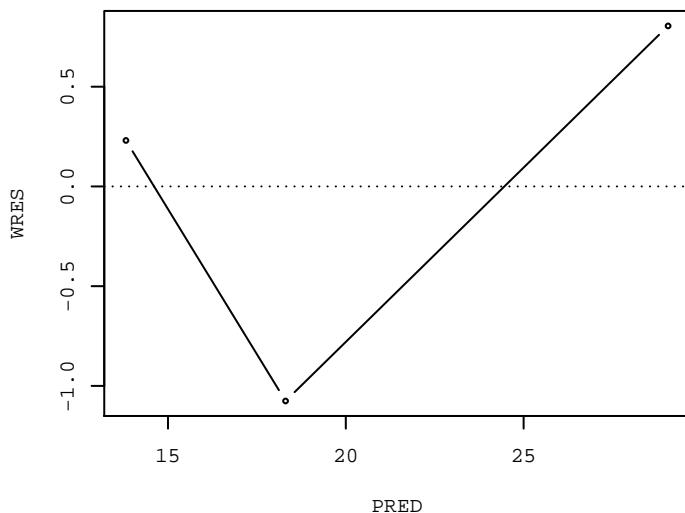
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 11
IOFV = 5.18325 , OFV per DV = 5.1833 , Run Test(CWRES) p = 1
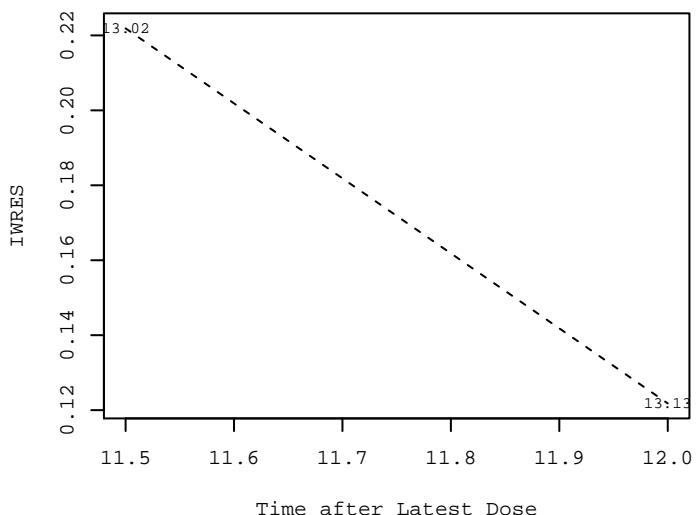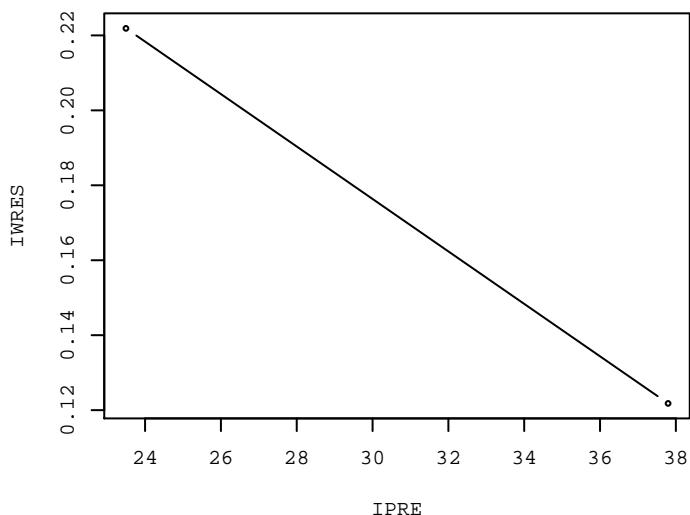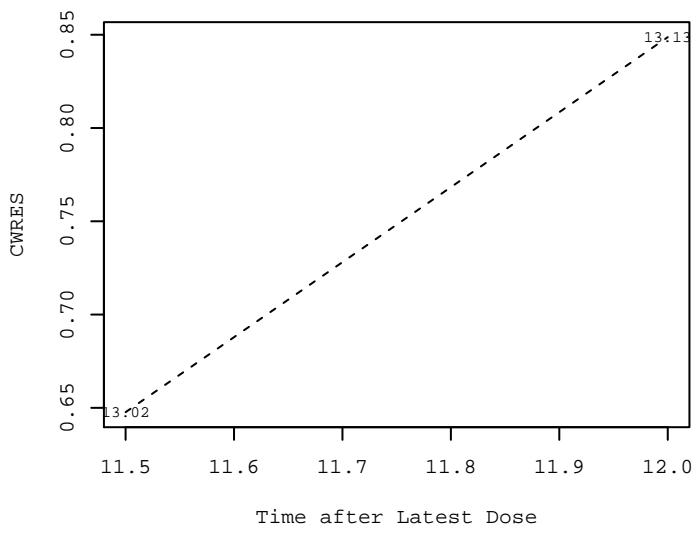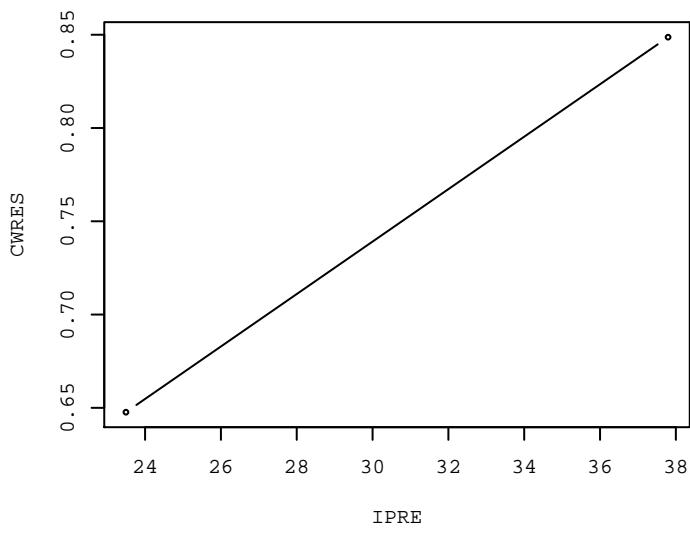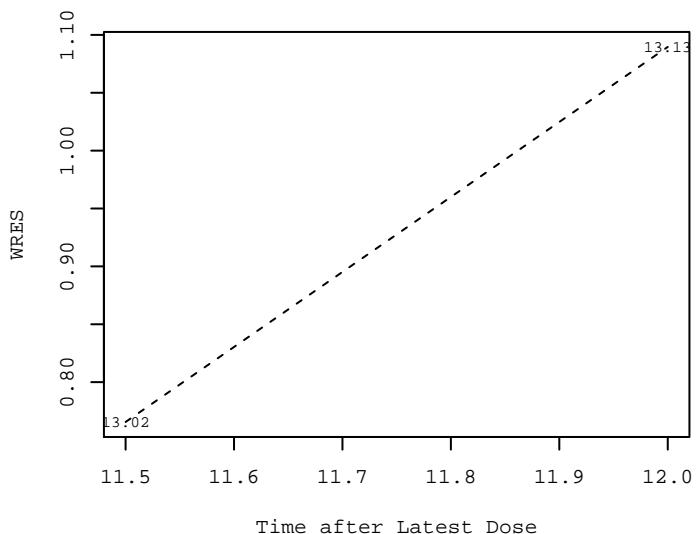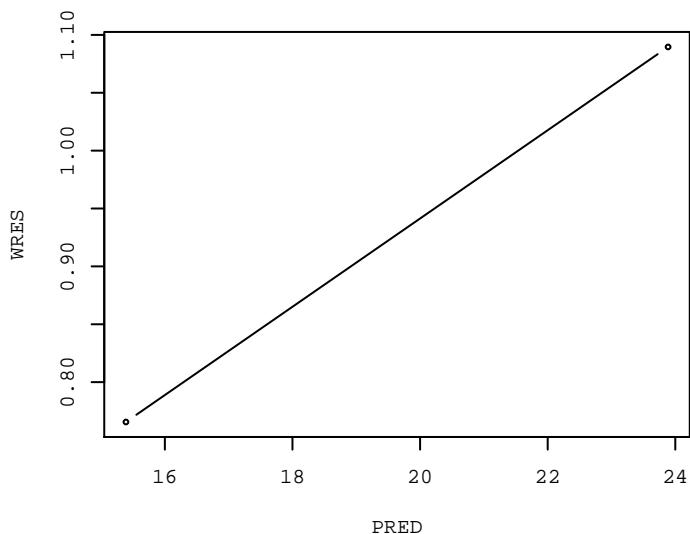
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 12
IOFV = 11.5999 , OFV per DV = 3.8666 , Run Test(CWRES) p = 1
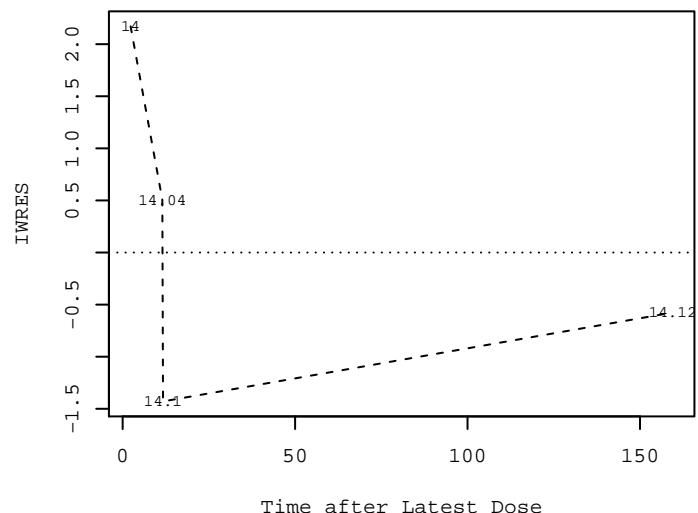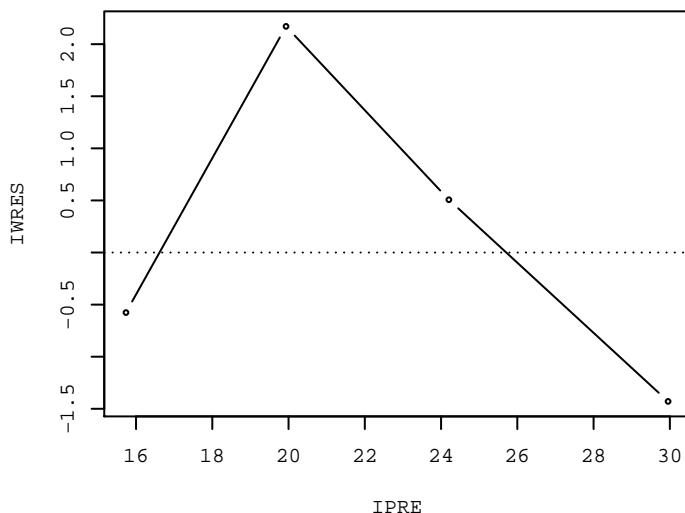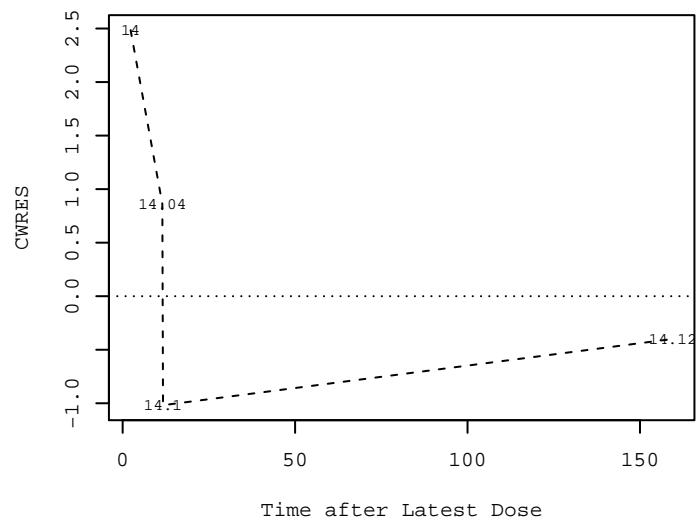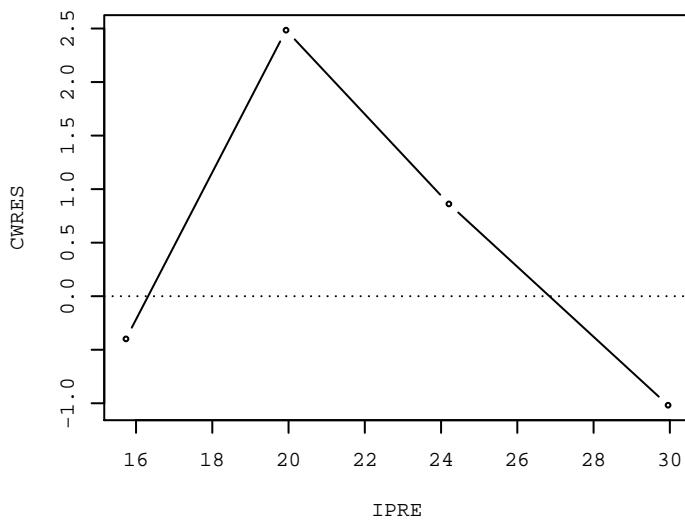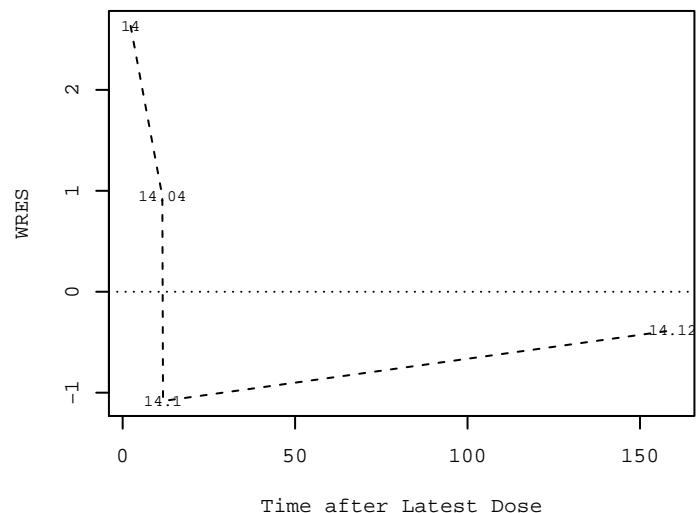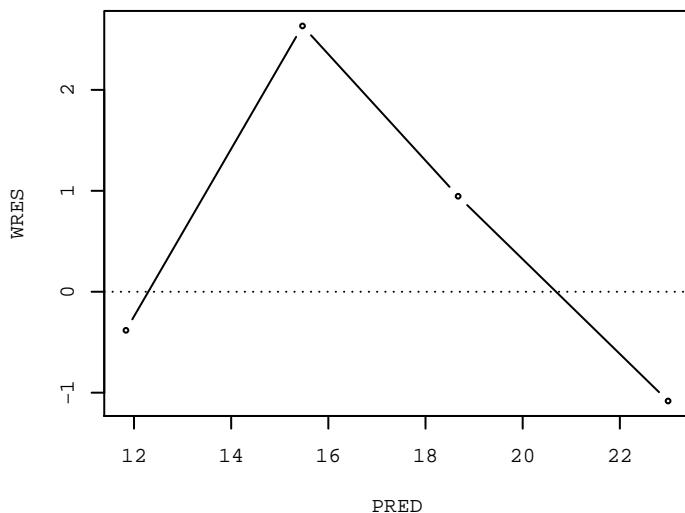
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 13
IOFV = 9.21687 , OFV per DV = 4.6084 , Run Test(CWRES) p = 0.5
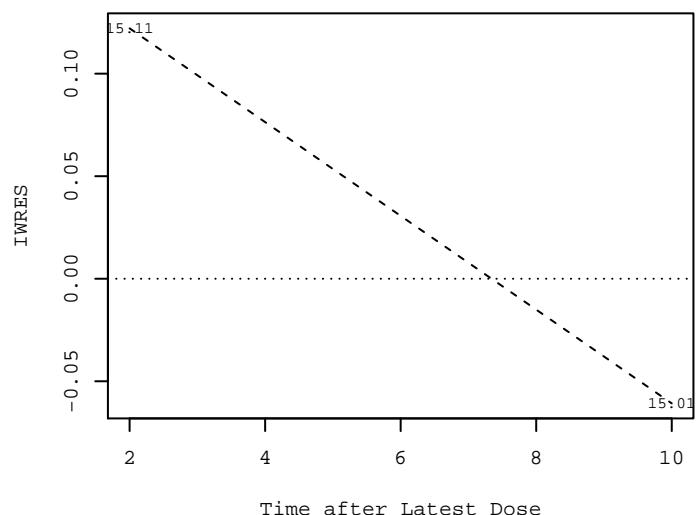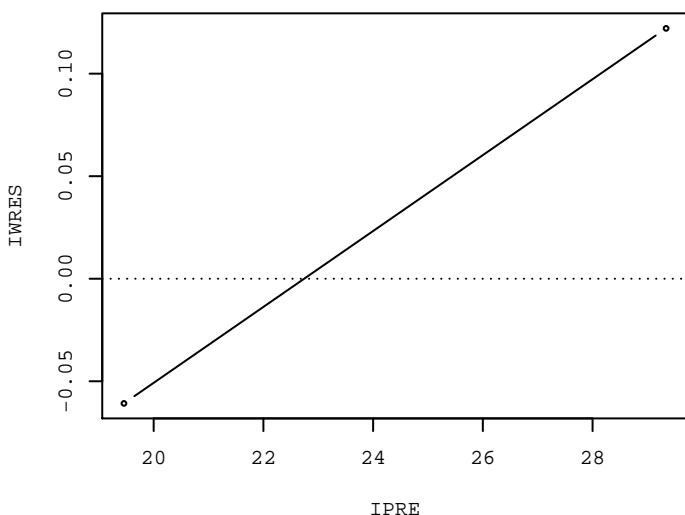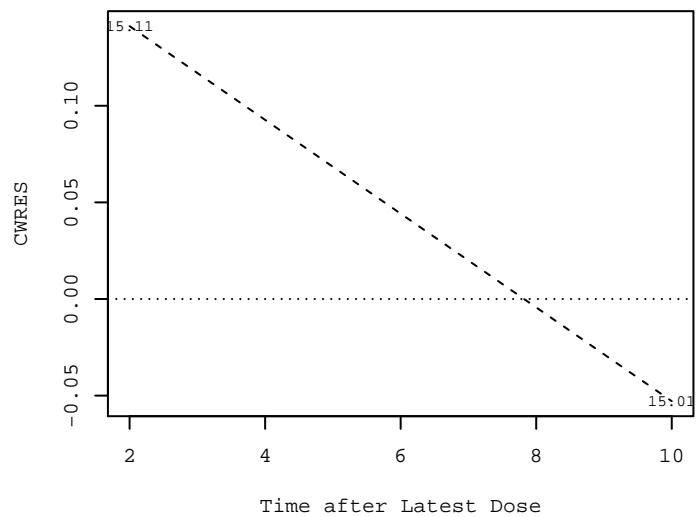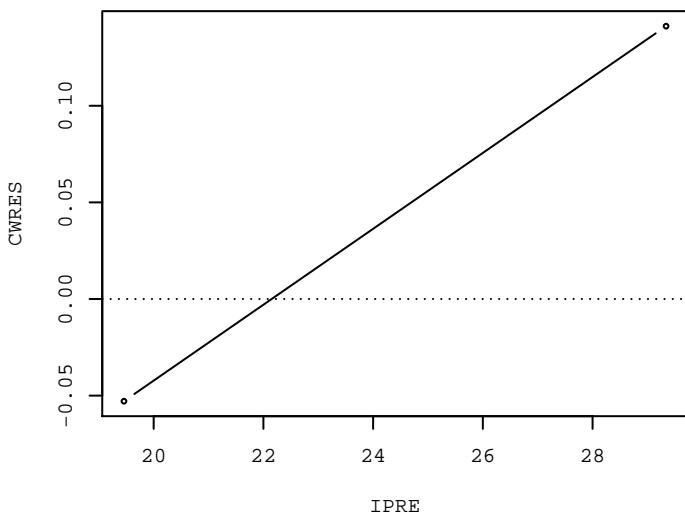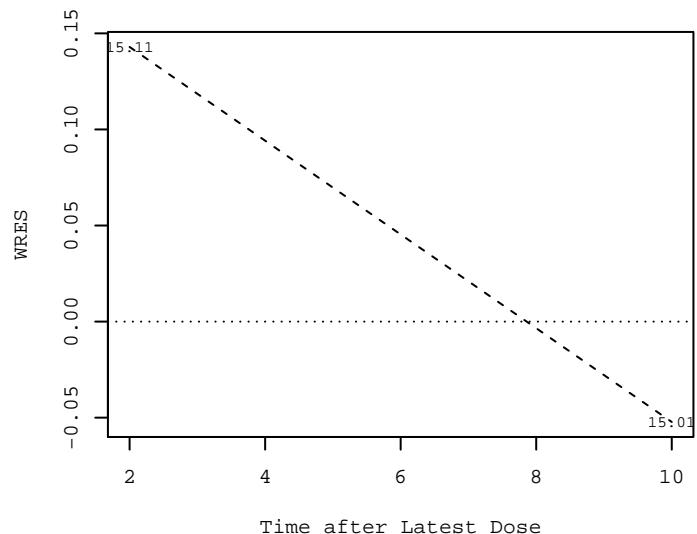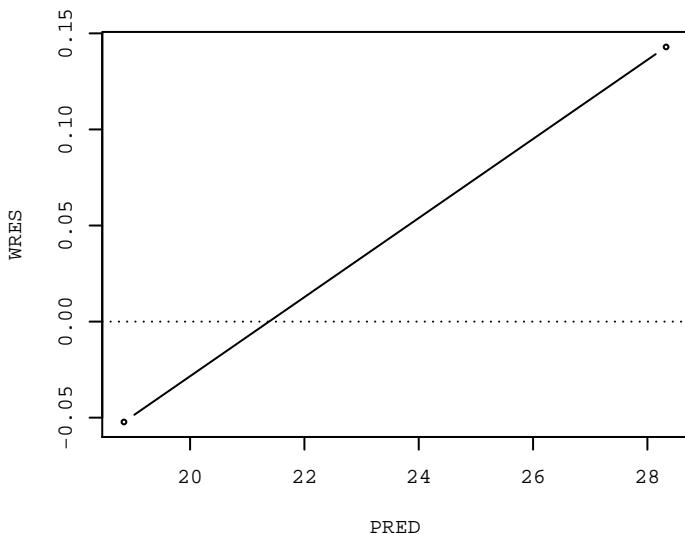
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 14
IOFV = 20.169 , OFV per DV = 5.0422 , Run Test(CWRES) p = 0.333



*Fractional number means dosing occasion.
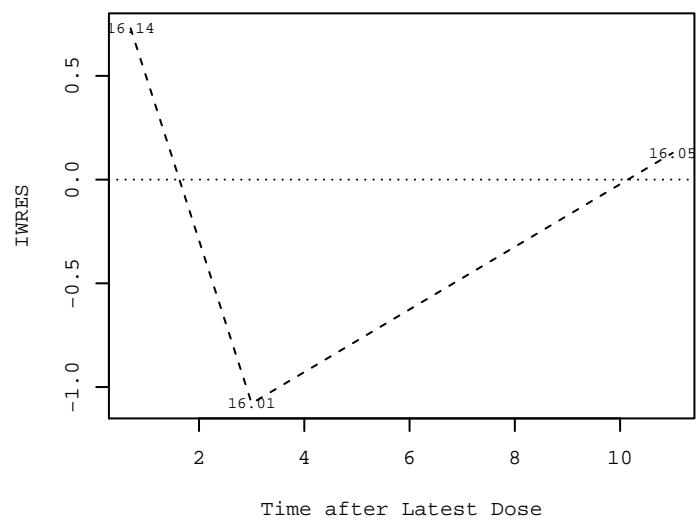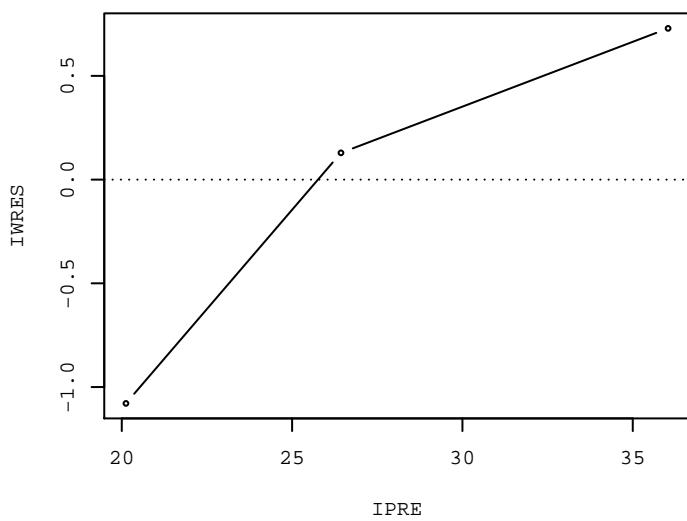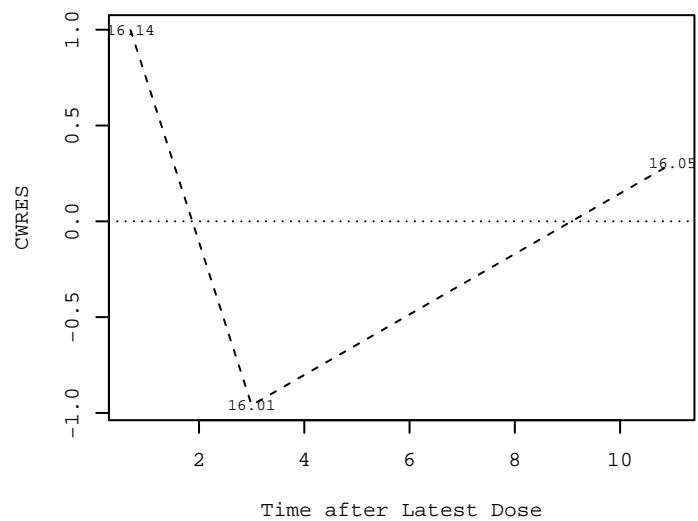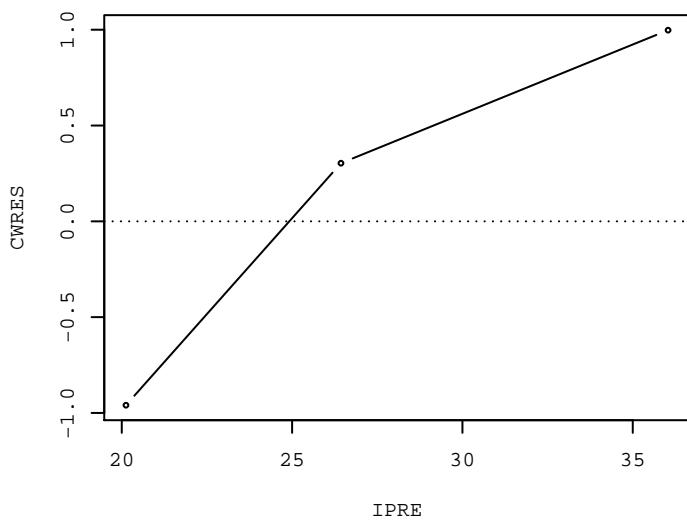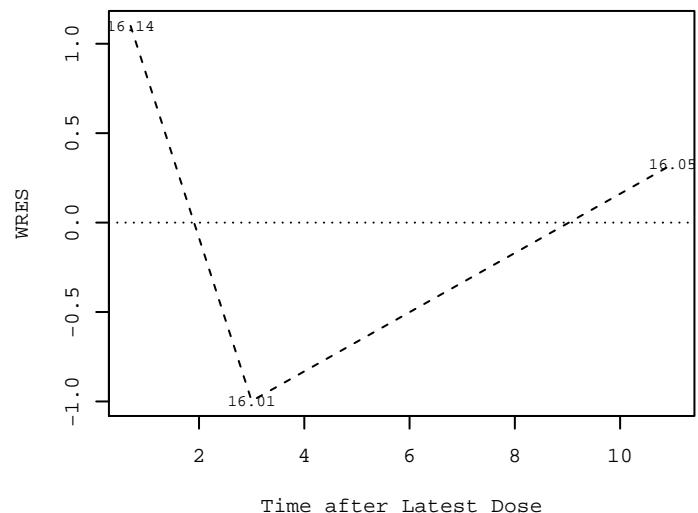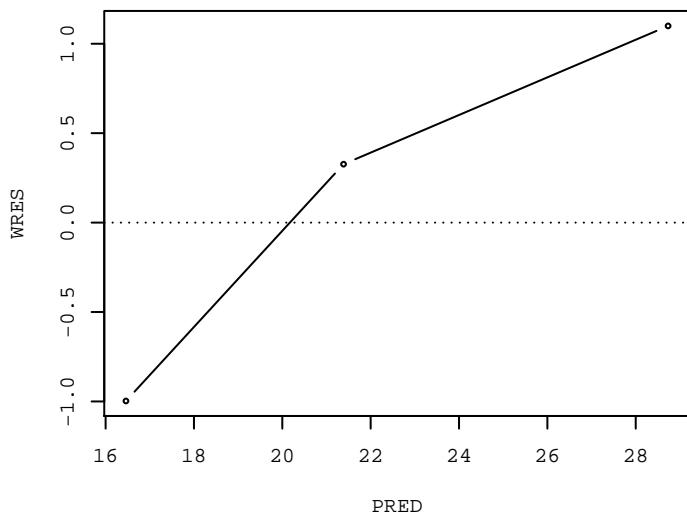
# Individiual Residual Curve, ID = 15
IOFV = 7.48533 , OFV per DV = 3.7427 , Run Test(CWRES) p = 1
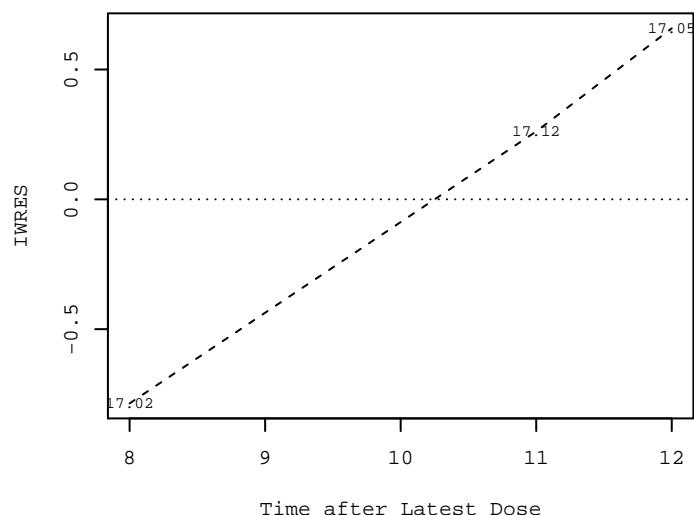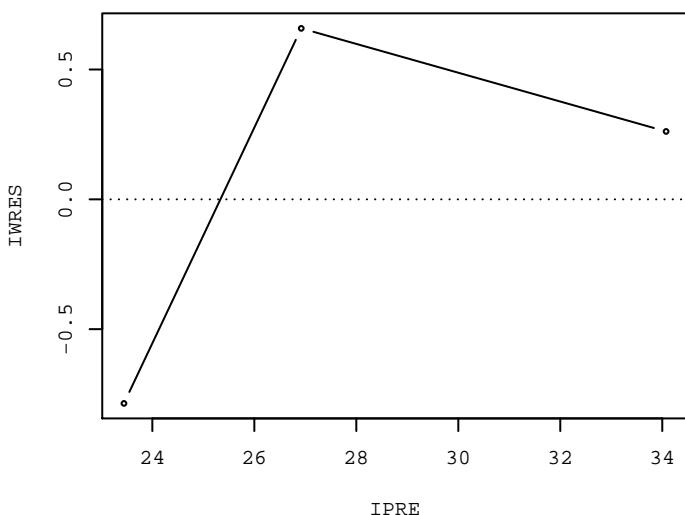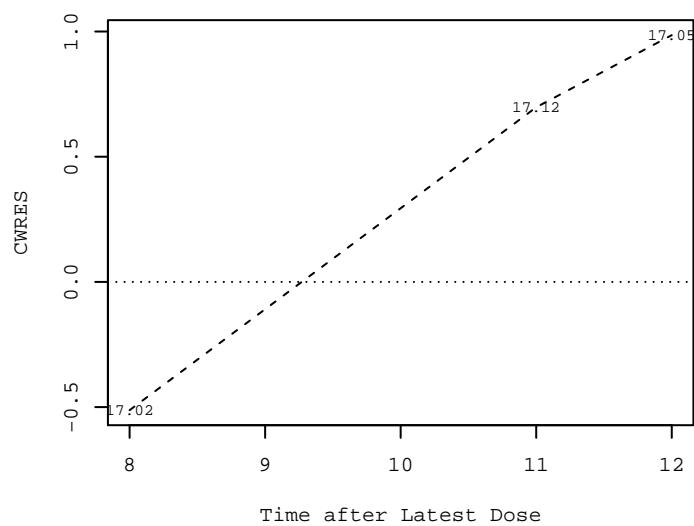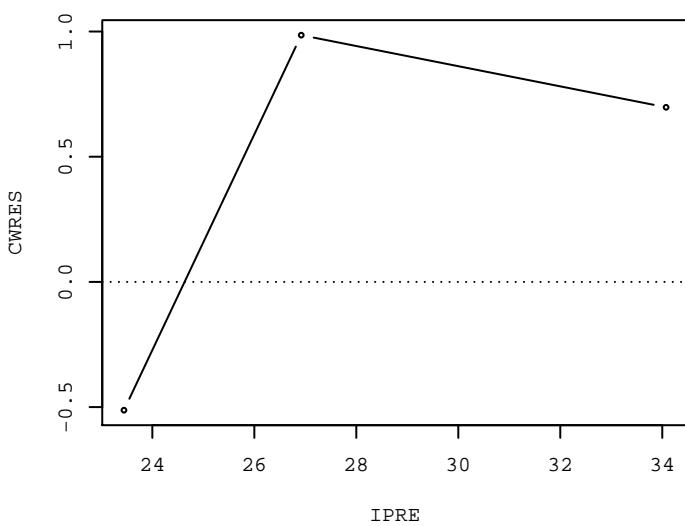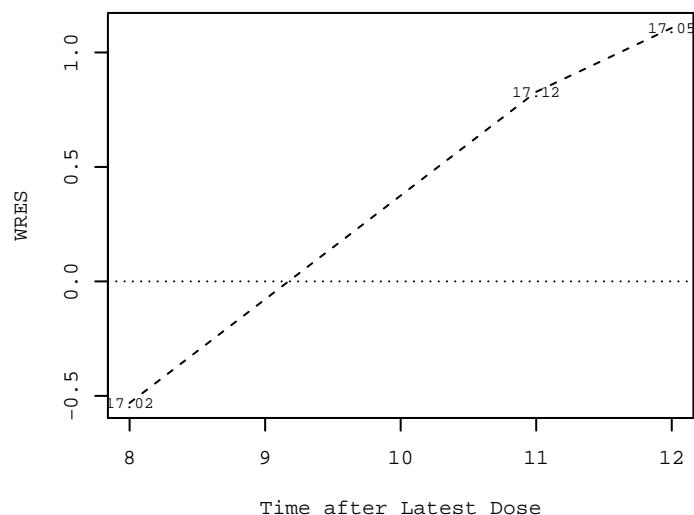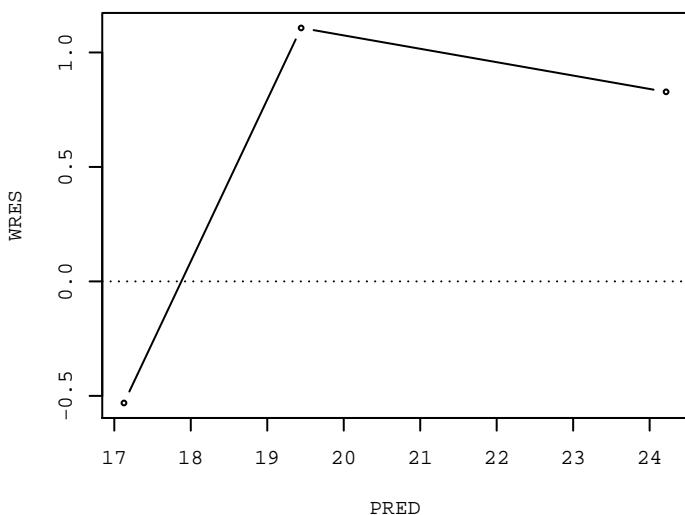
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 16
## IOFV = 12.2855 , OFV per DV = 4.0952 , Run Test(CWRES) p = 1
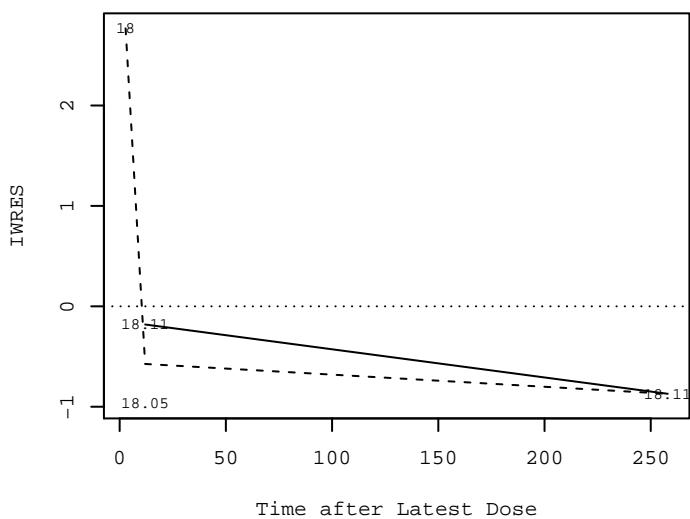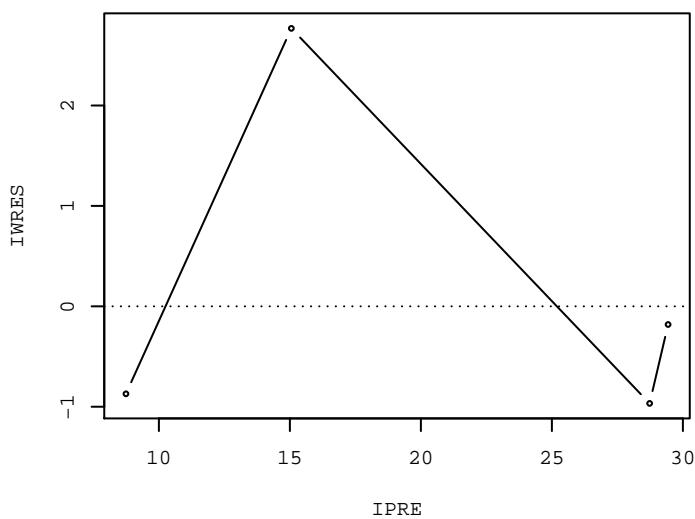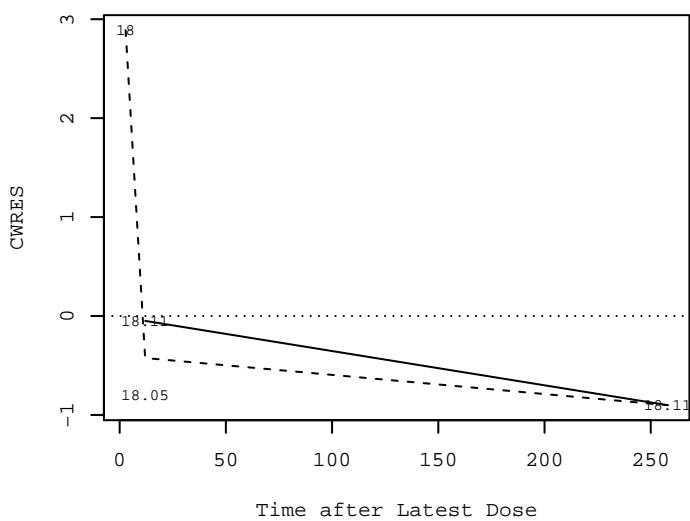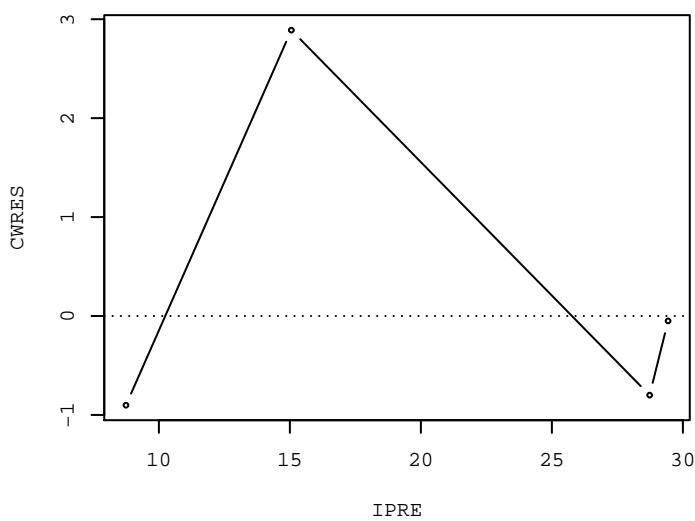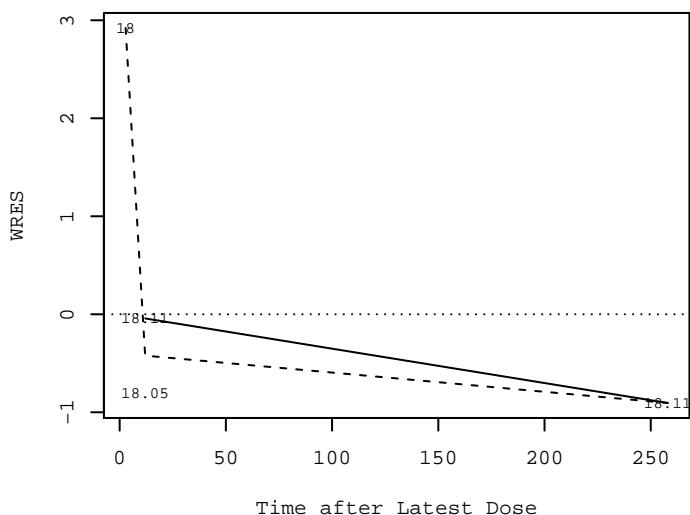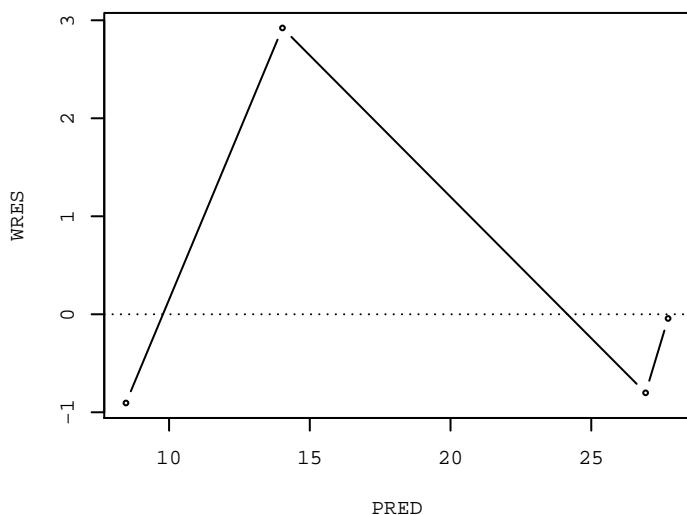
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 17
IOFV = 12.0853 , OFV per DV = 4.0284 , Run Test(CWRES) p = 1

*Fractional number means dosing occasion.
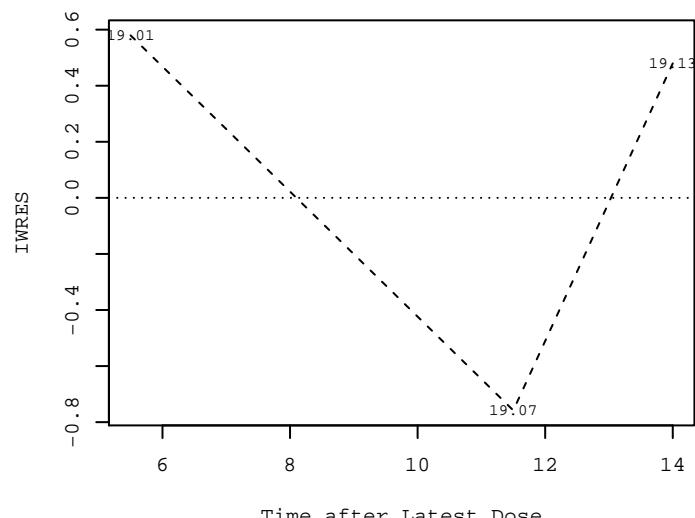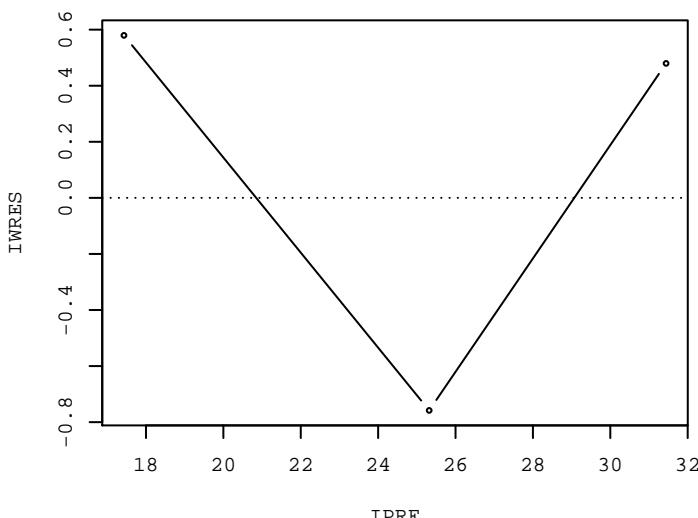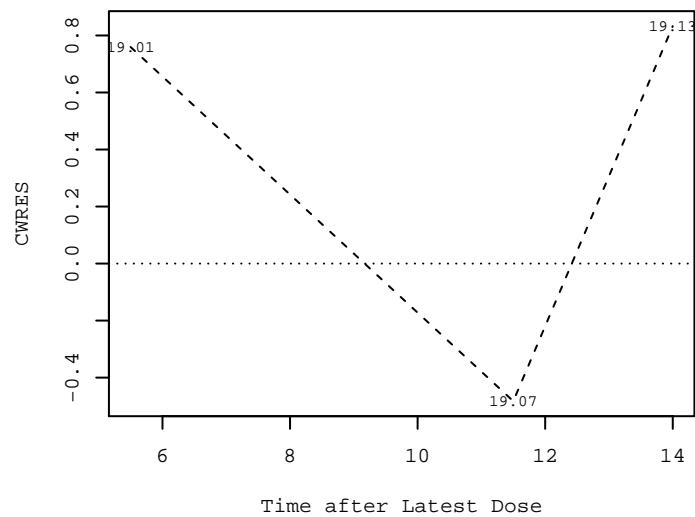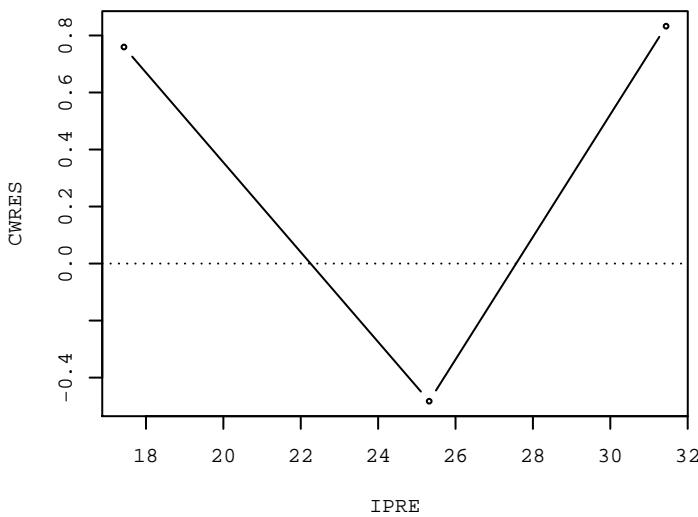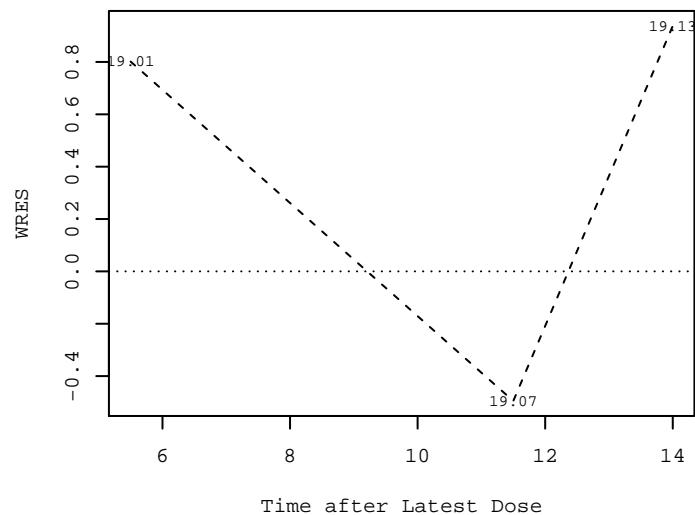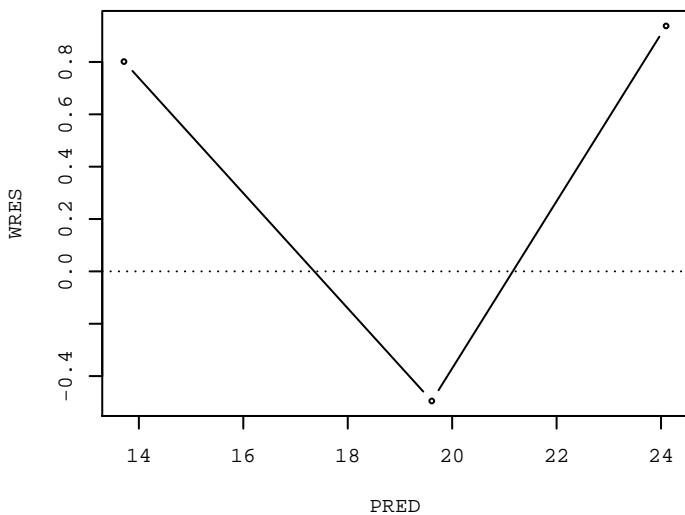
# Individiual Residual Curve, ID = 18
IOFV = 21.6332 , OFV per DV = 5.4083 , Run Test(CWRES) p = 0.5
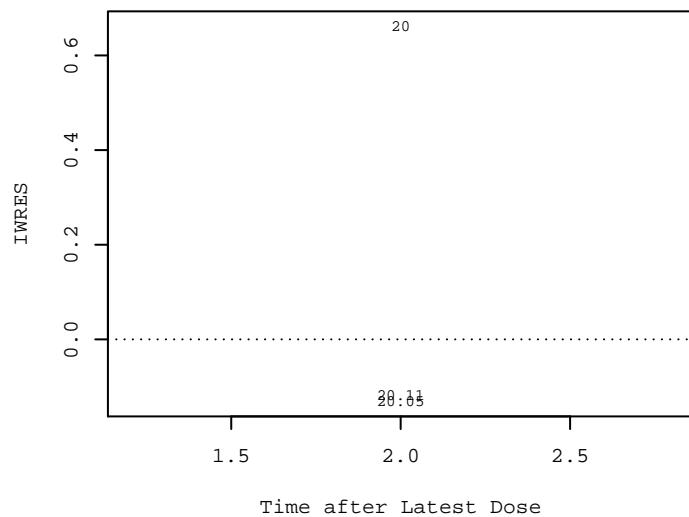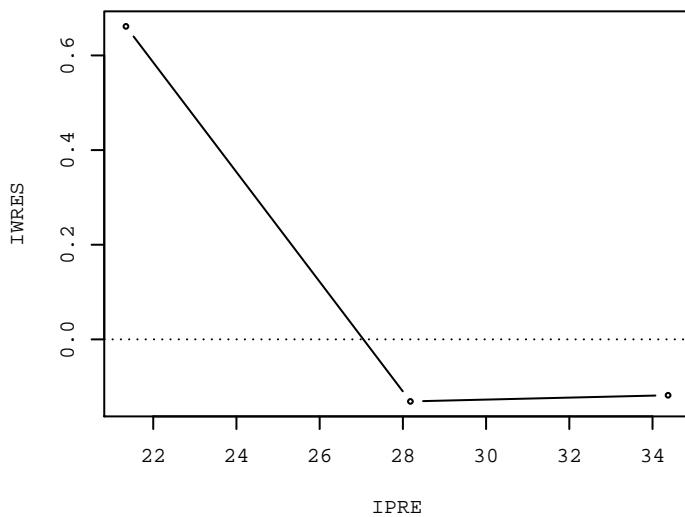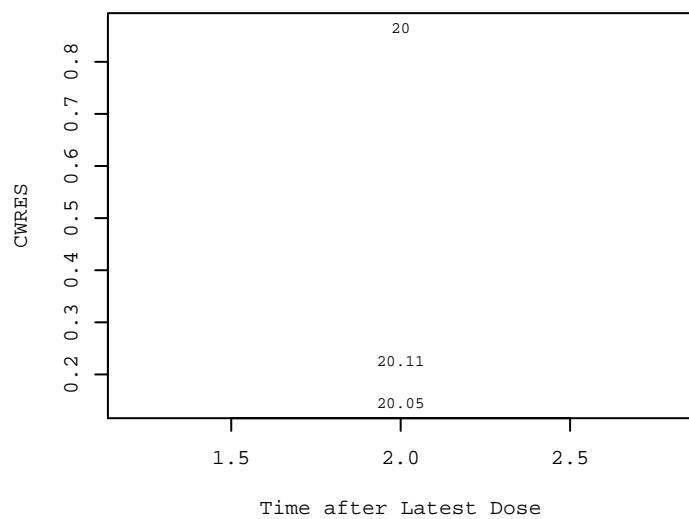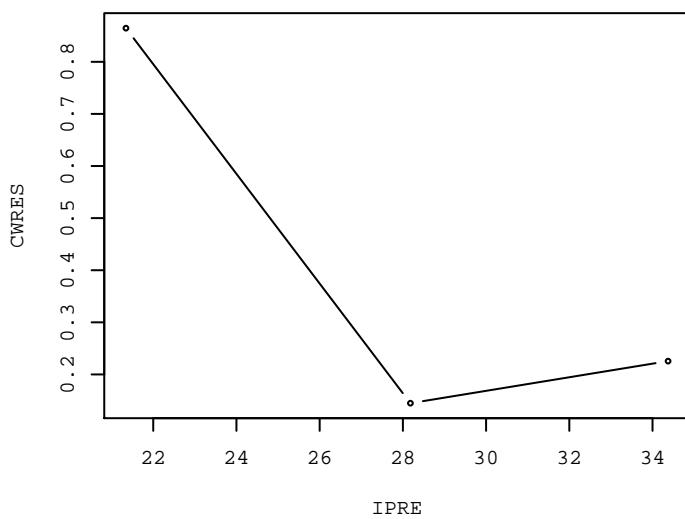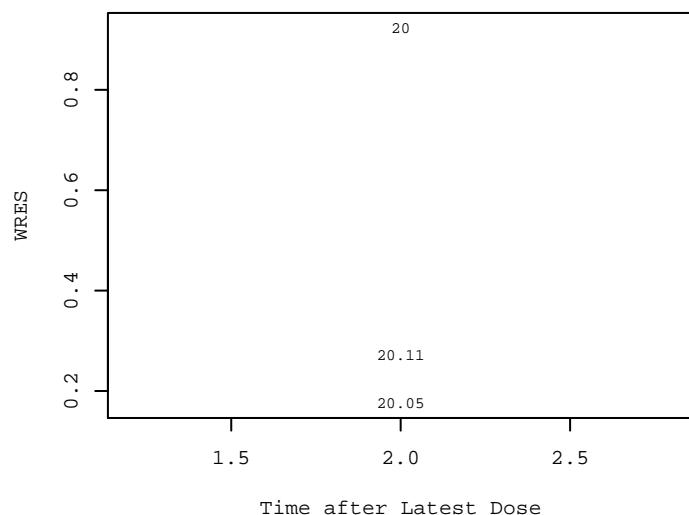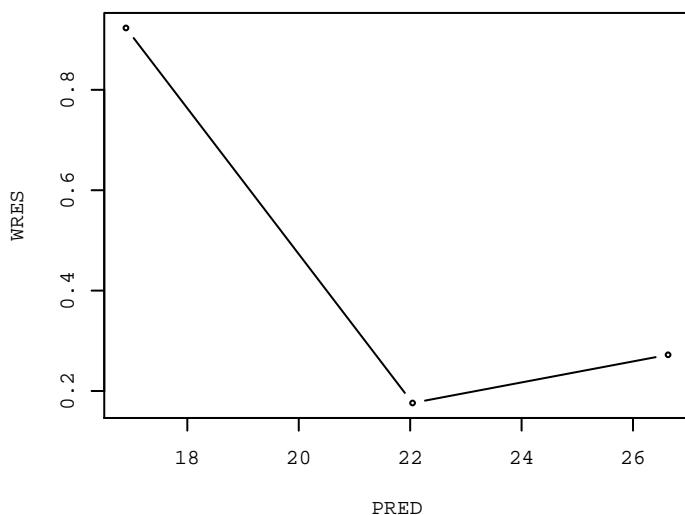
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 19
IOFV = 11.4475 , OFV per DV = 3.8158 , Run Test(CWRES) p = 0.333
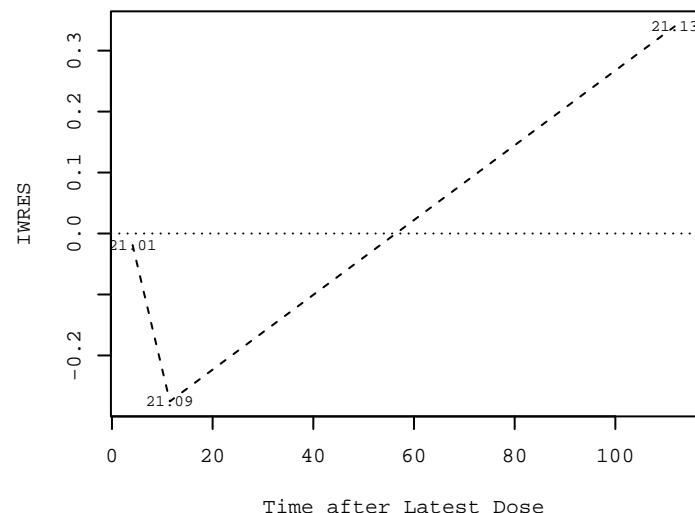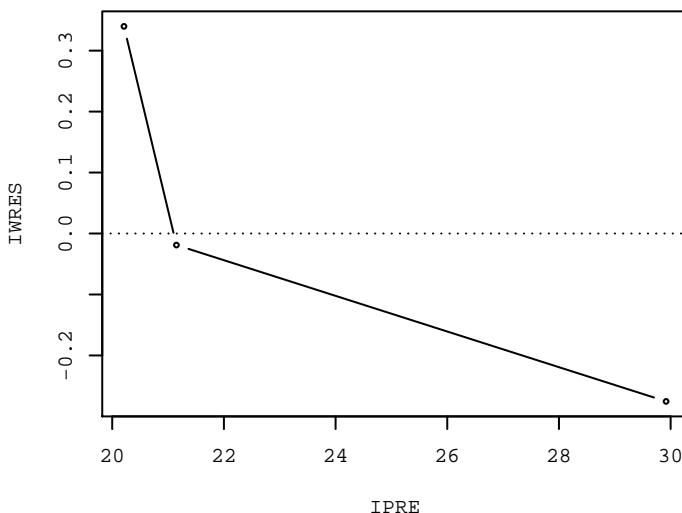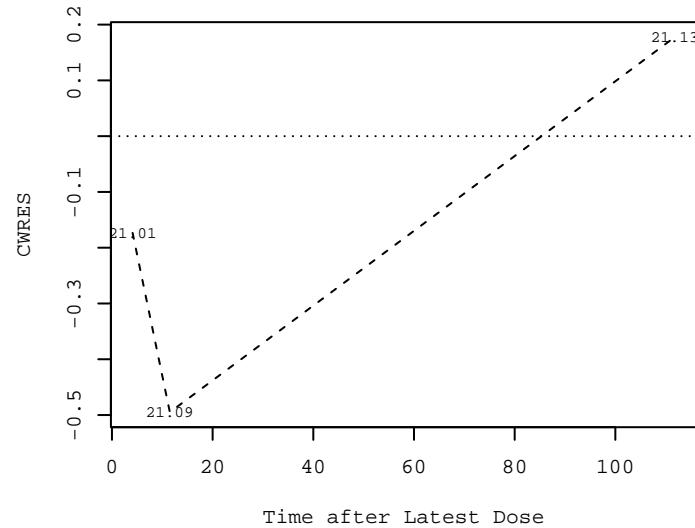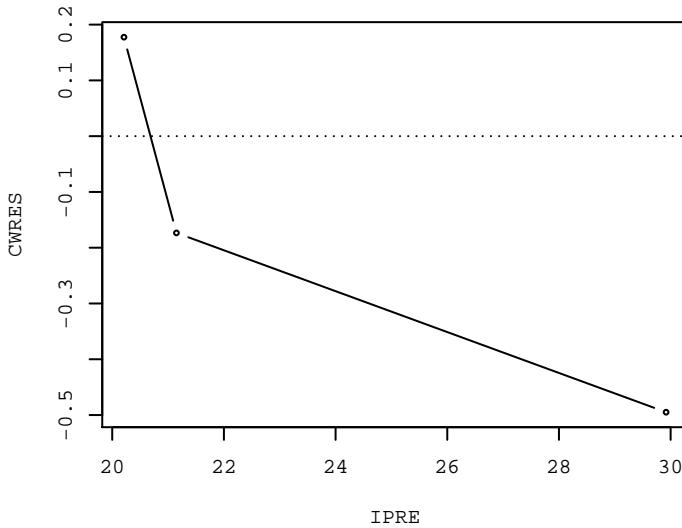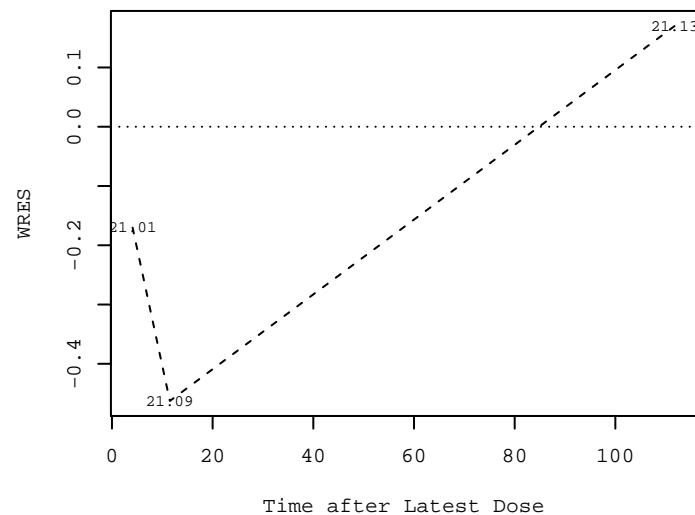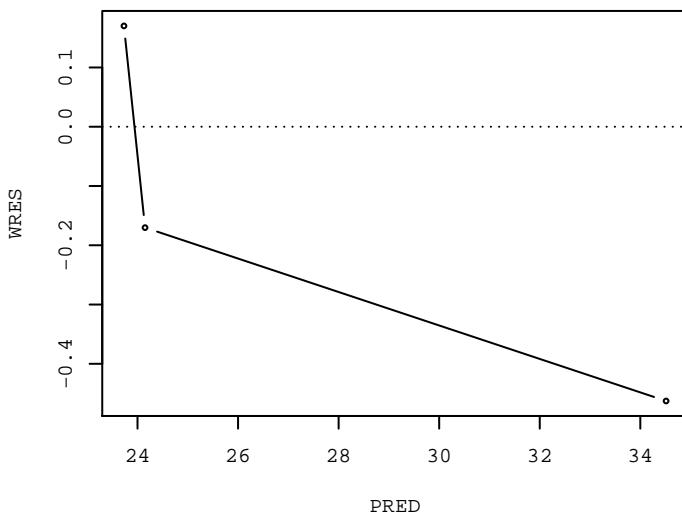
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 20
IOFV = 11.1432 , OFV per DV = 3.7144 , Run Test(CWRES) p = 0.25
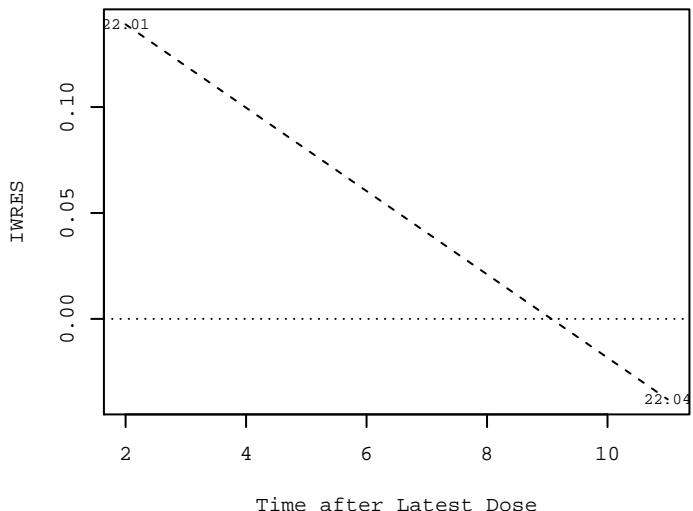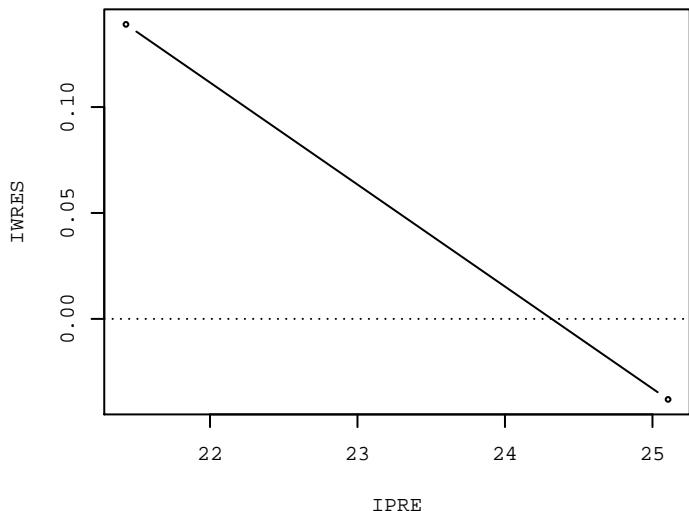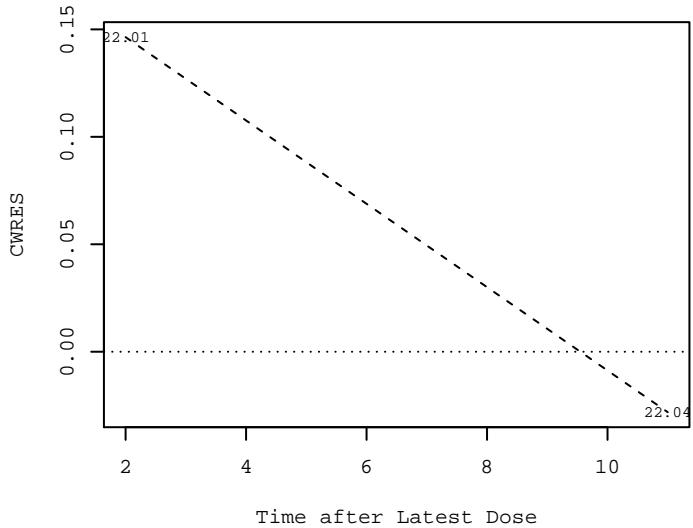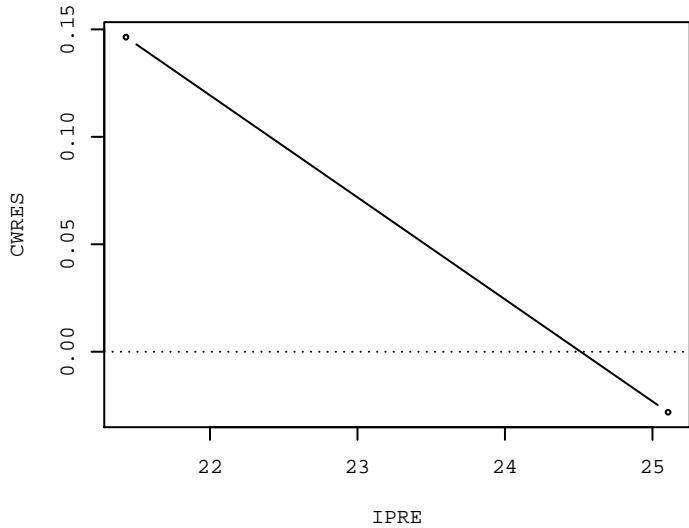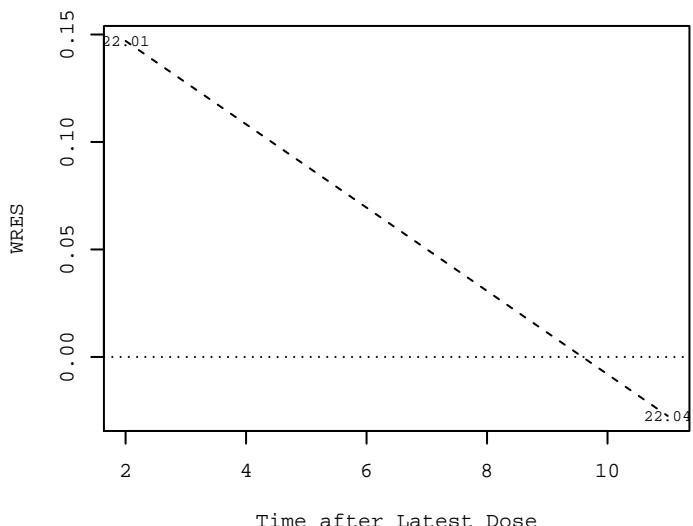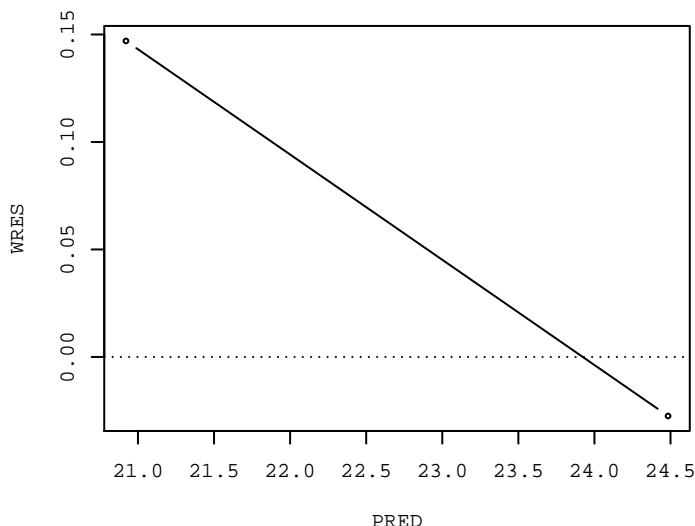
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 21
IOFV = 10.2705 , OFV per DV = 3.4235 , Run Test(CWRES) p = 1

*Fractional number means dosing occasion.
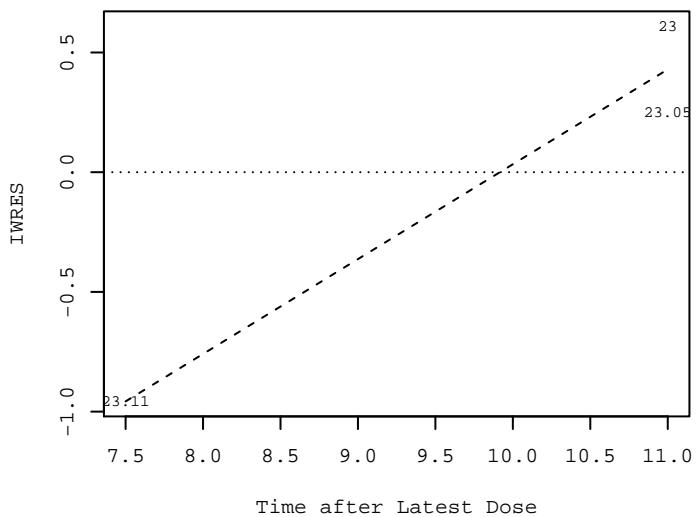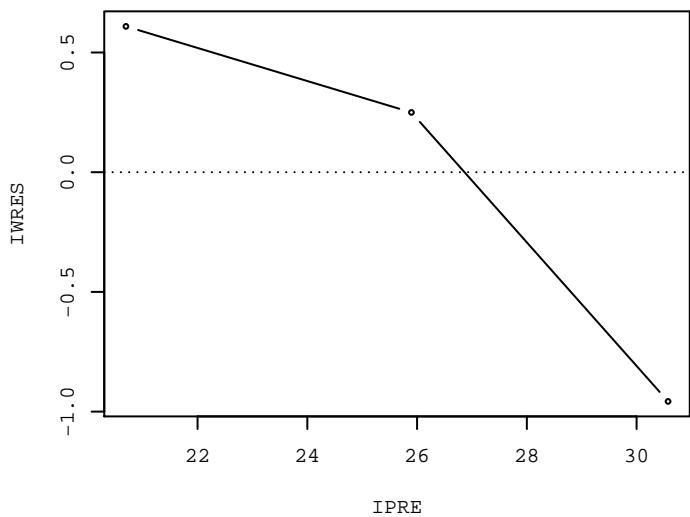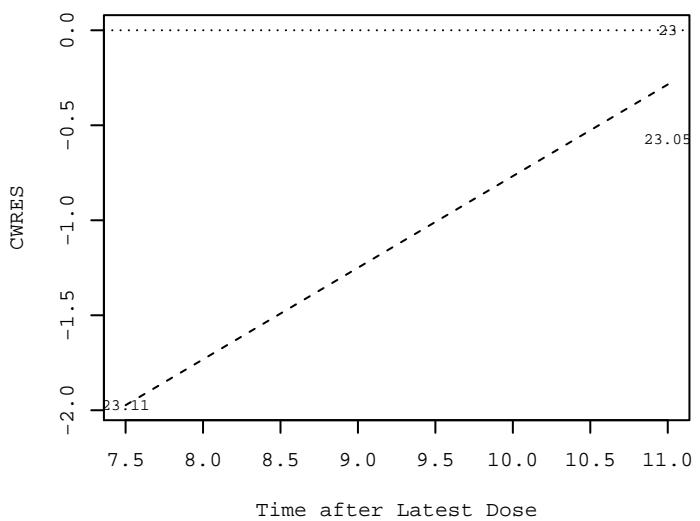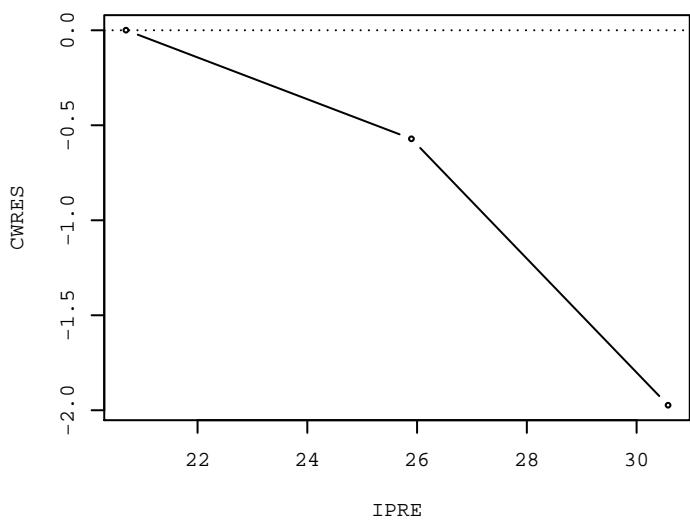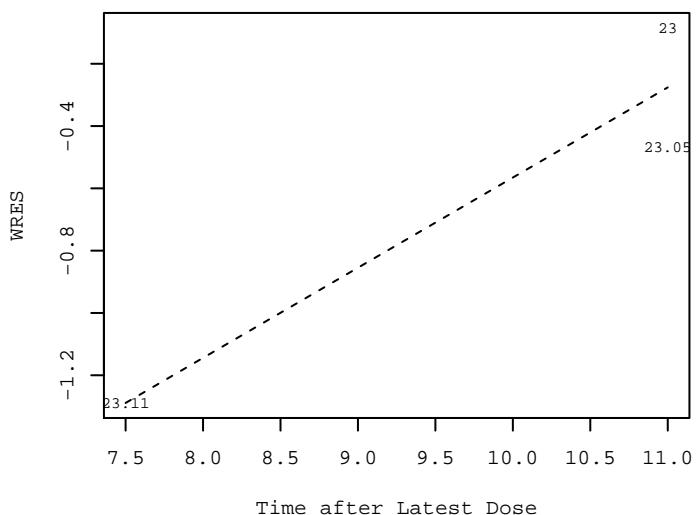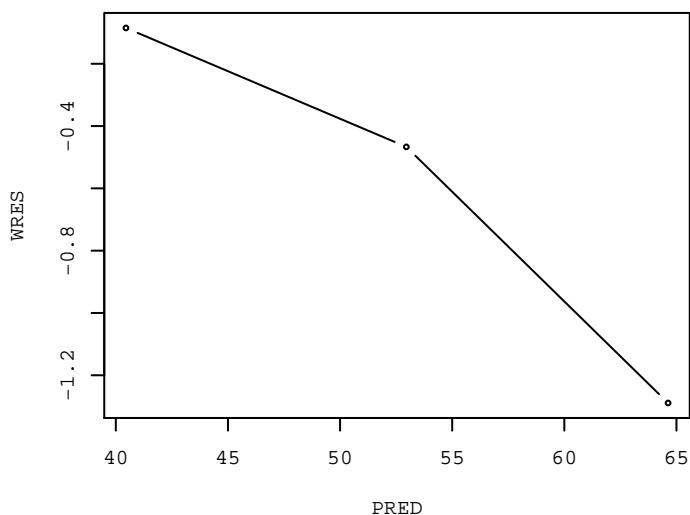
Individiual Residual Curve, ID = 22
IOFV = 7.26079 , OFV per DV = 3.6304 , Run Test(CWRES) p = 1
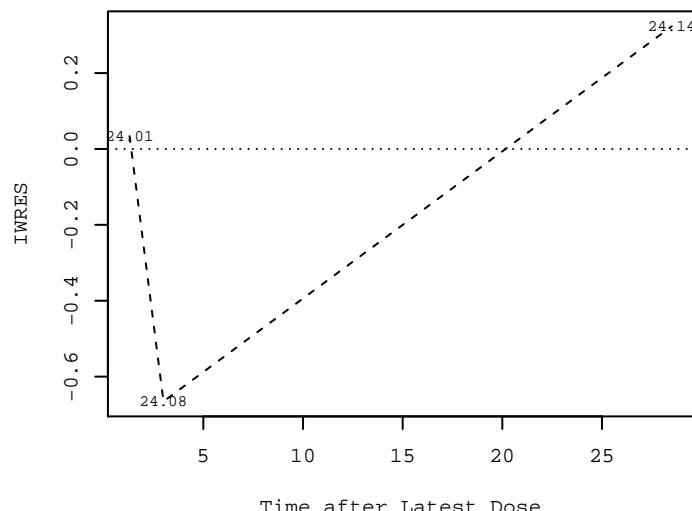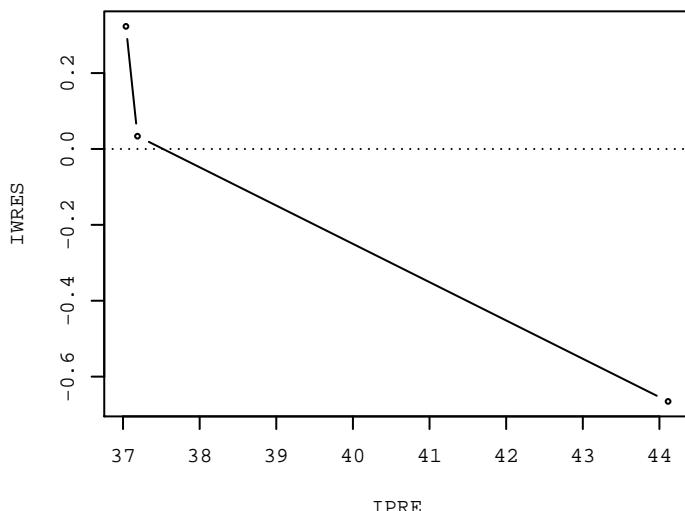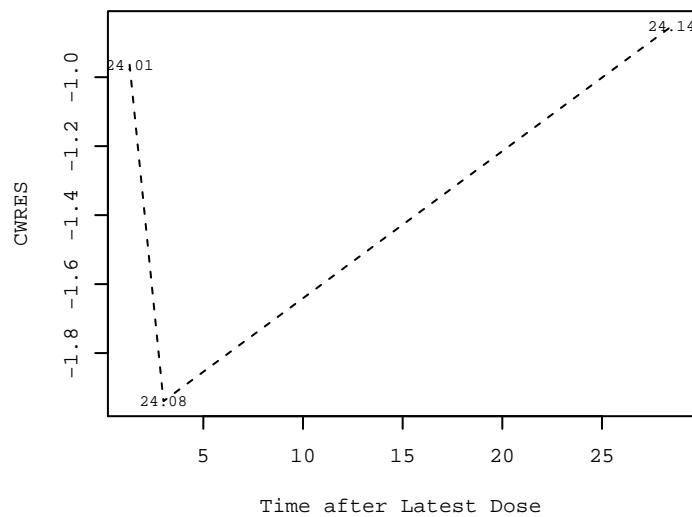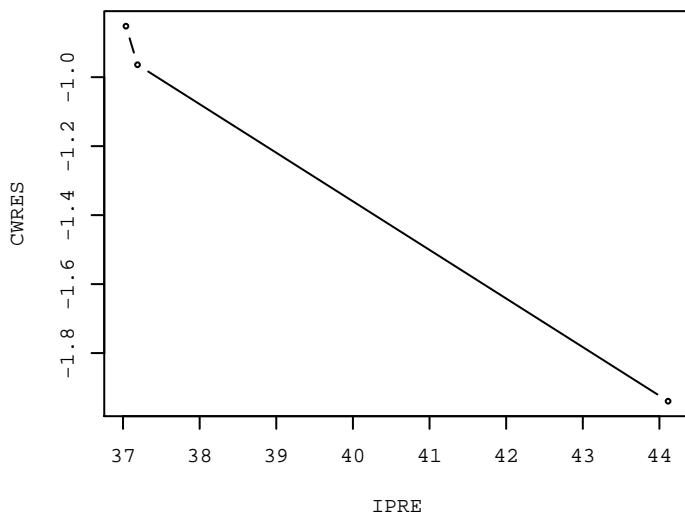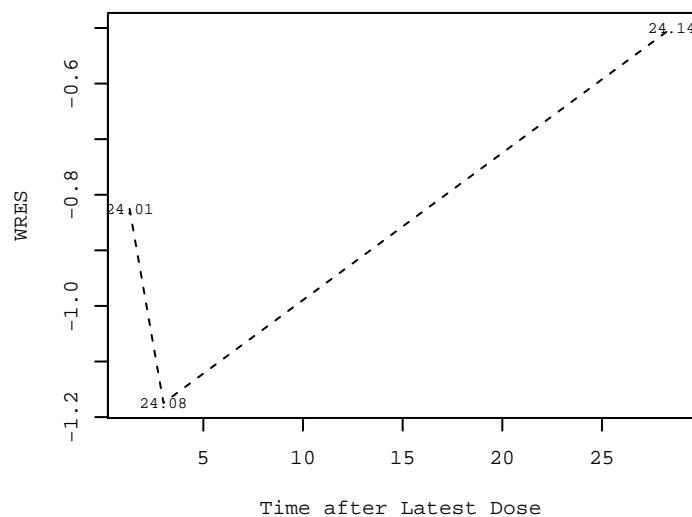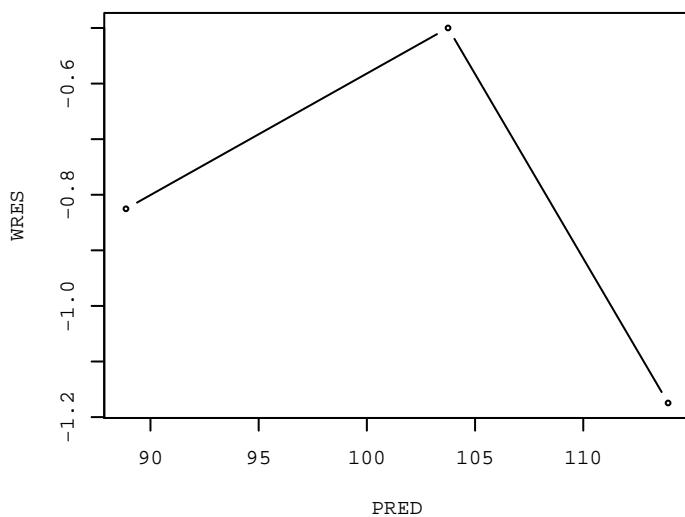
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 23
IOFV = 14.3126 , OFV per DV = 4.7709 , Run Test(CWRES) p = 1
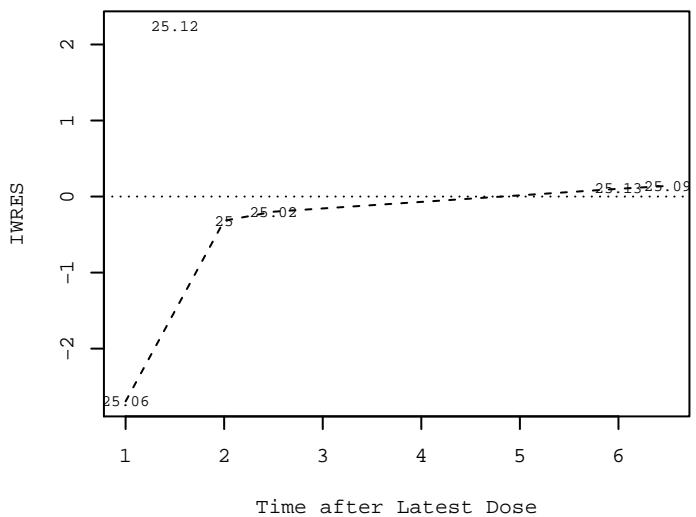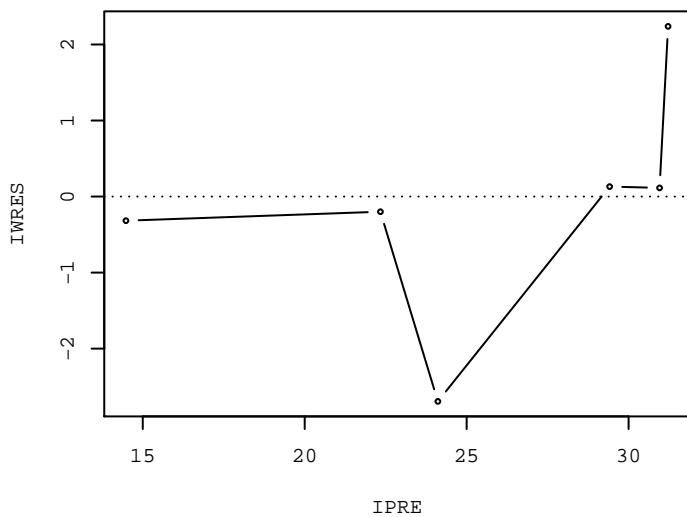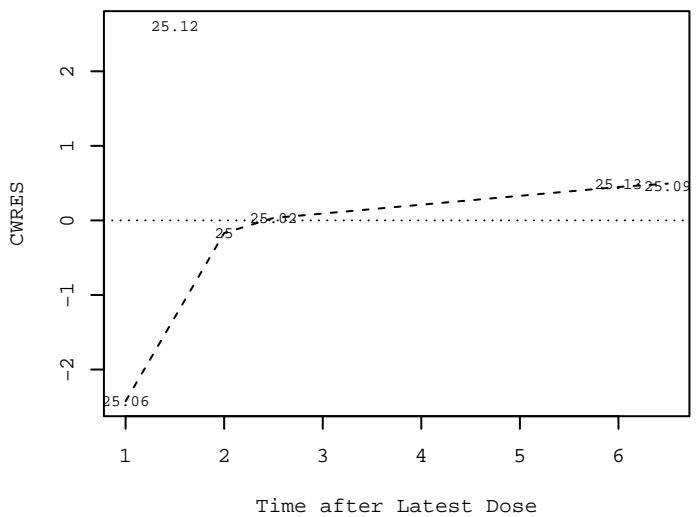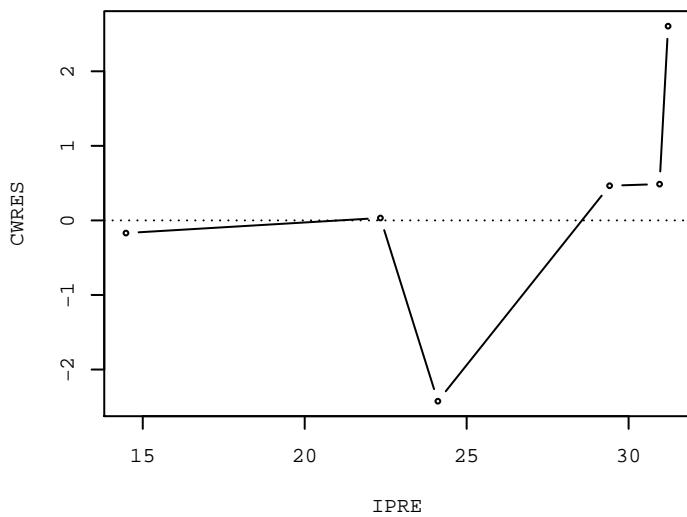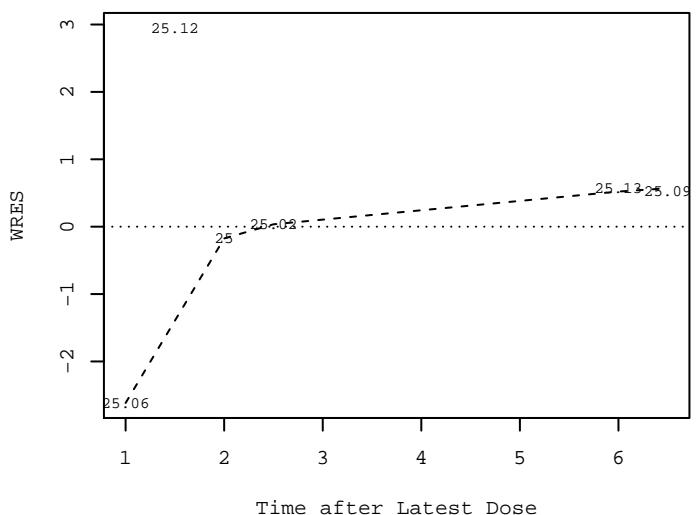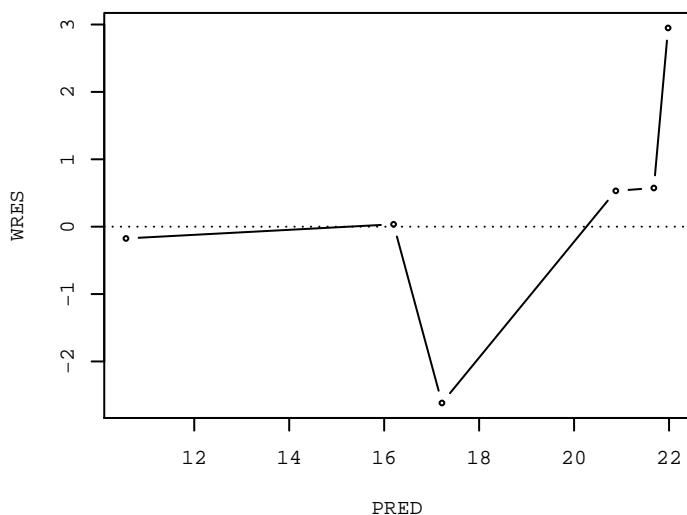
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 24
IOFV = 17.2406 , OFV per DV = 5.7469 , Run Test(CWRES) p = 0.25
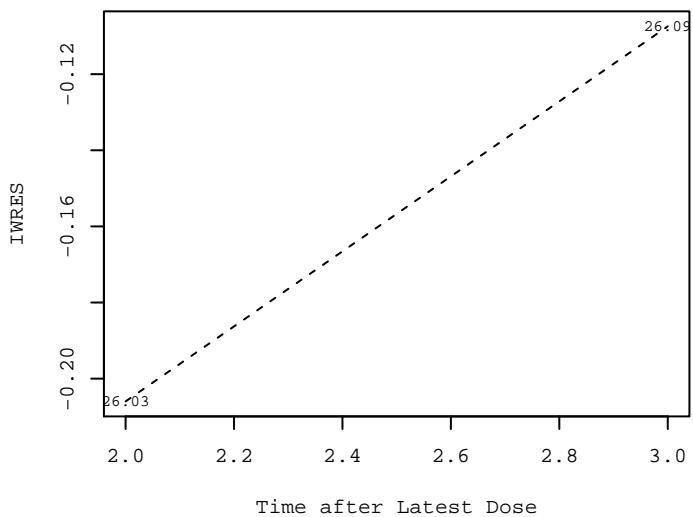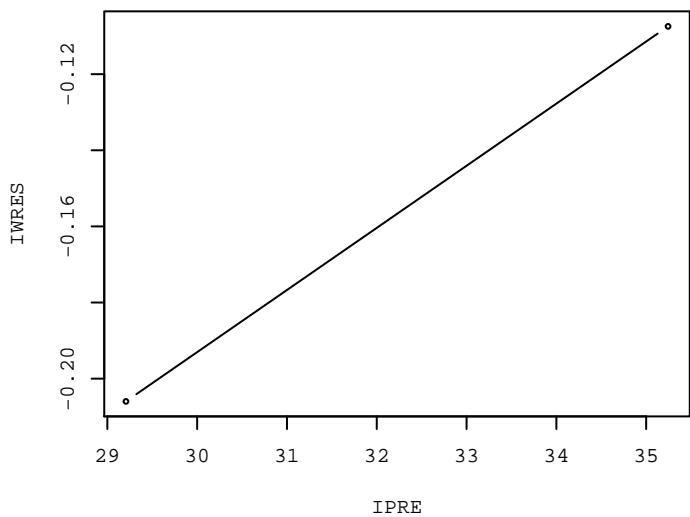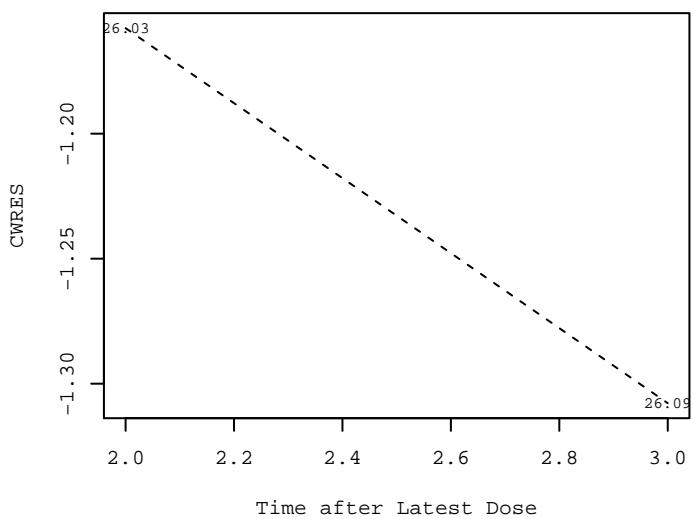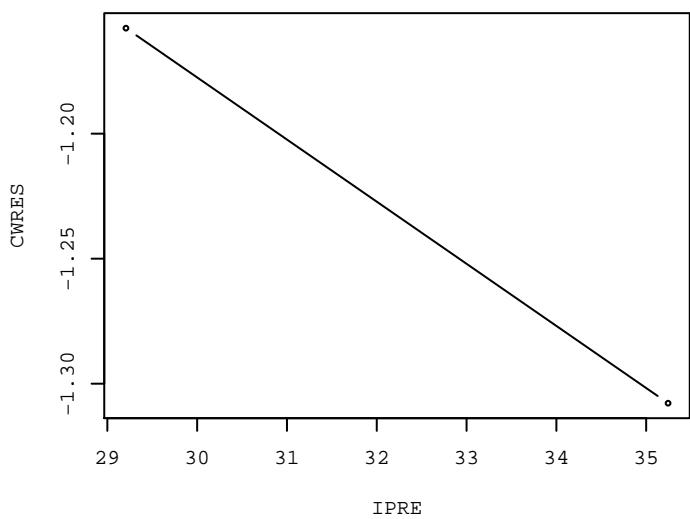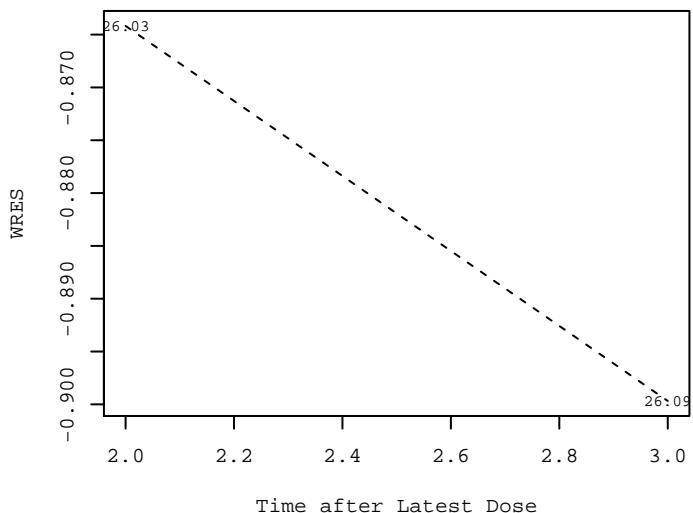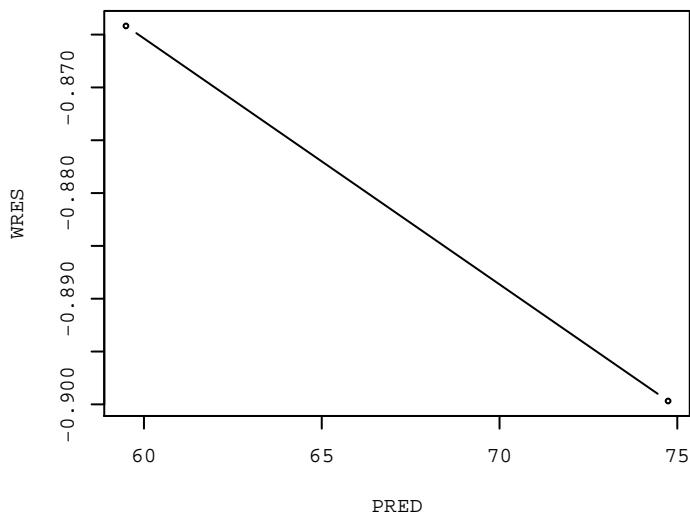
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 25
IOFV = 30.062 , OFV per DV = 5.0103 , Run Test(CWRES) p = 0.6
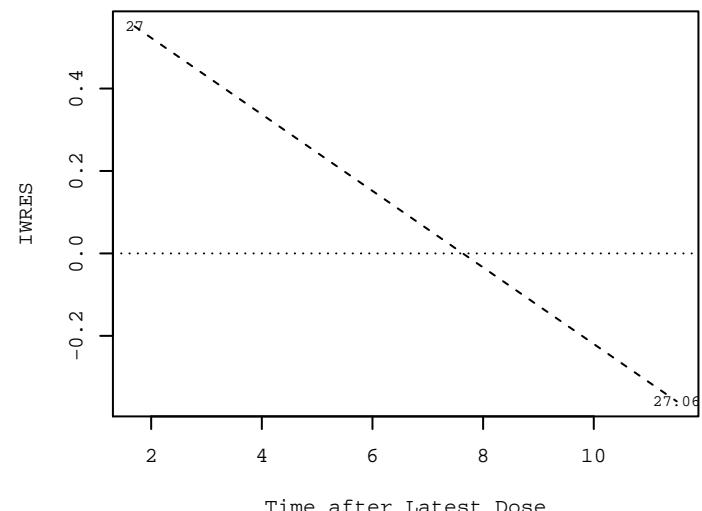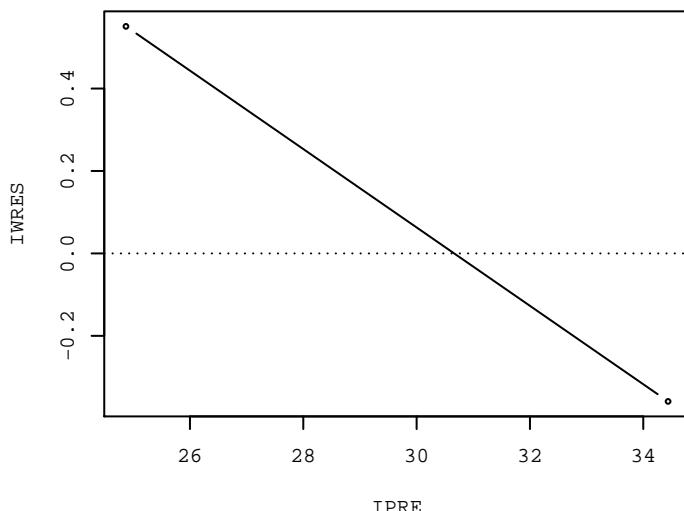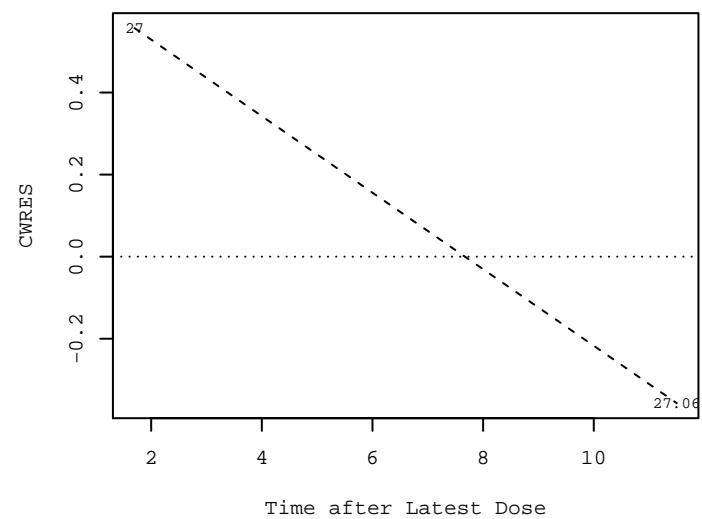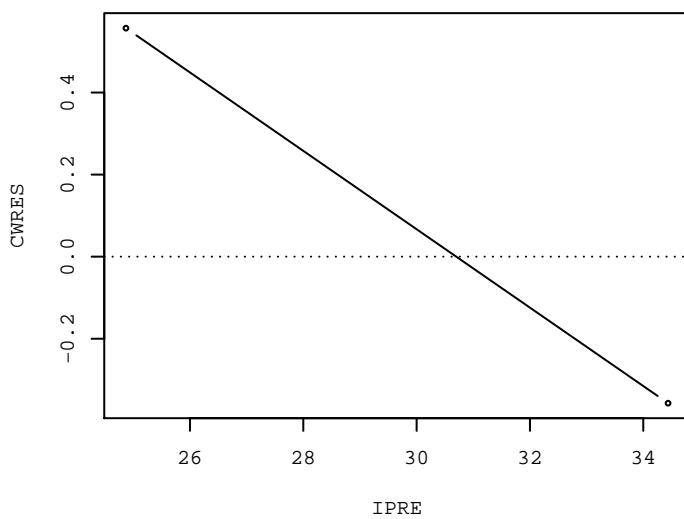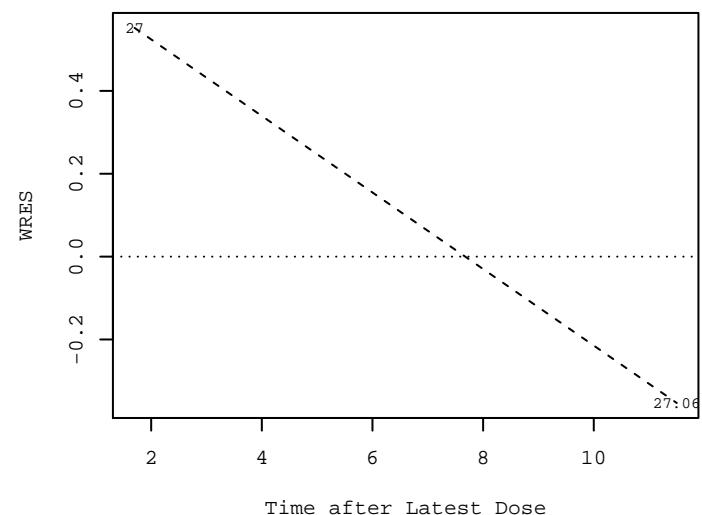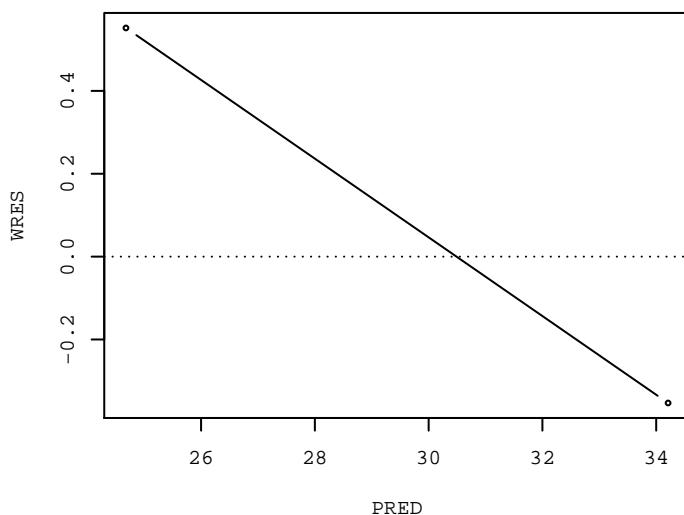
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 26
## IOFV = 11.2696 , OFV per DV = 5.6348 , Run Test(CWRES) p = 0.5

*Fractional number means dosing occasion.
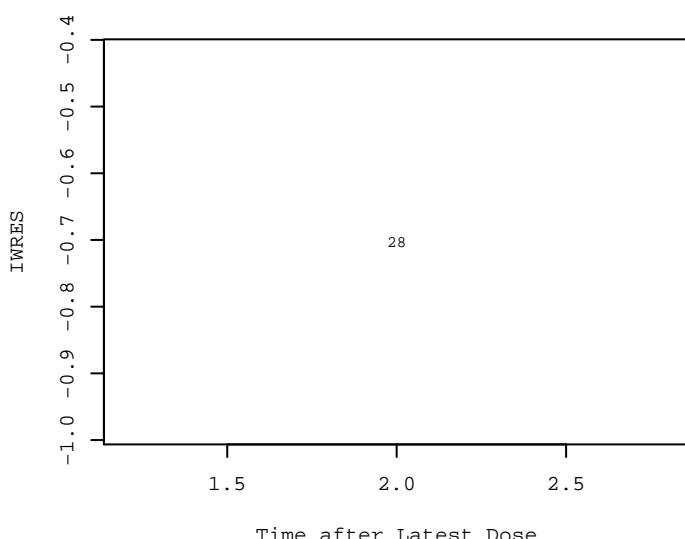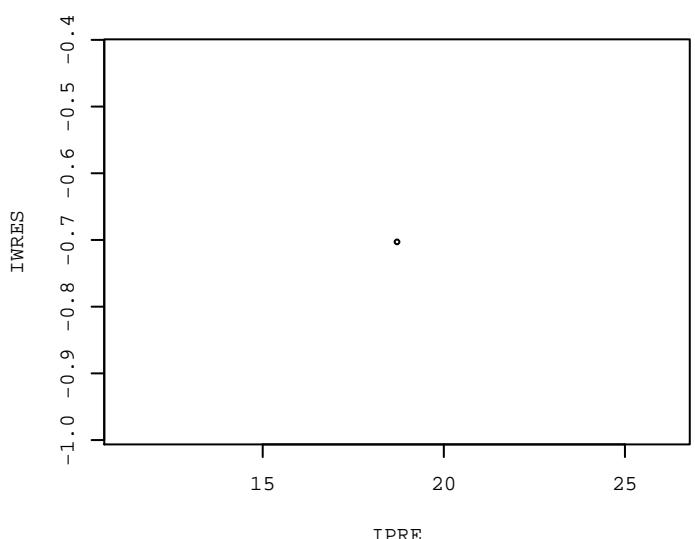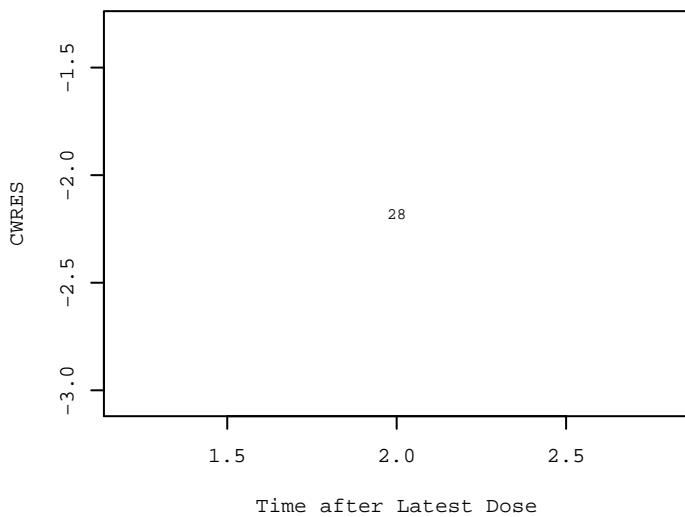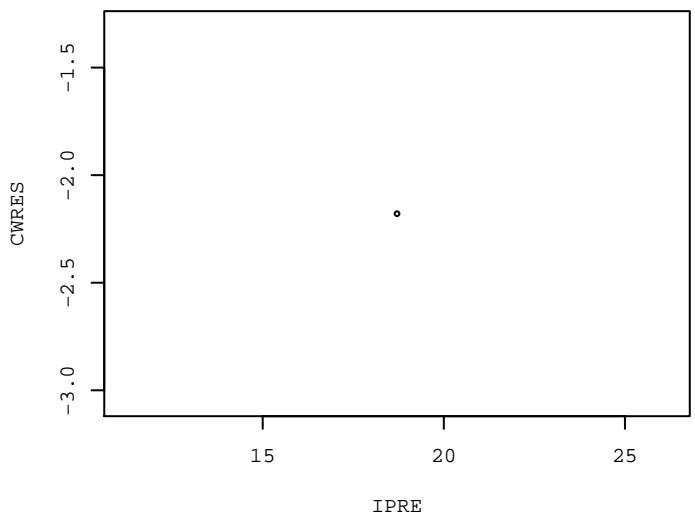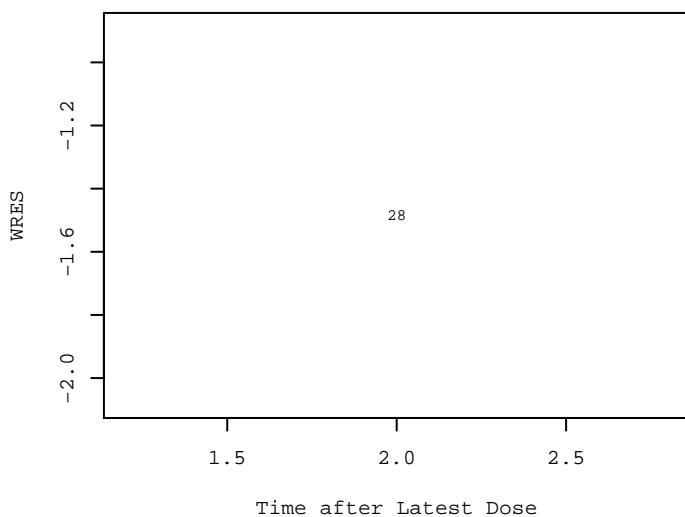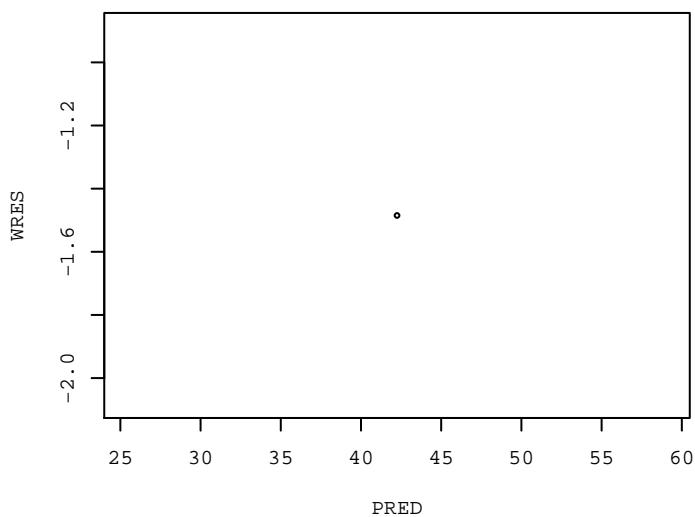
Individiual Residual Curve, ID = 27
IOFV = 8.36004 , OFV per DV = 4.18 , Run Test(CWRES) p = 1
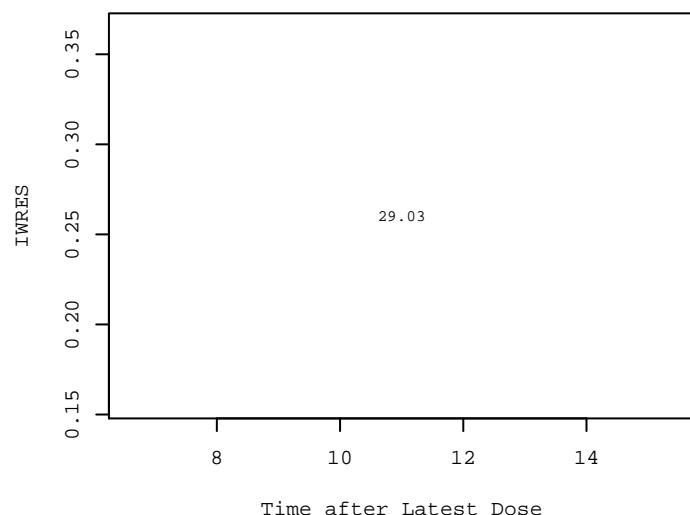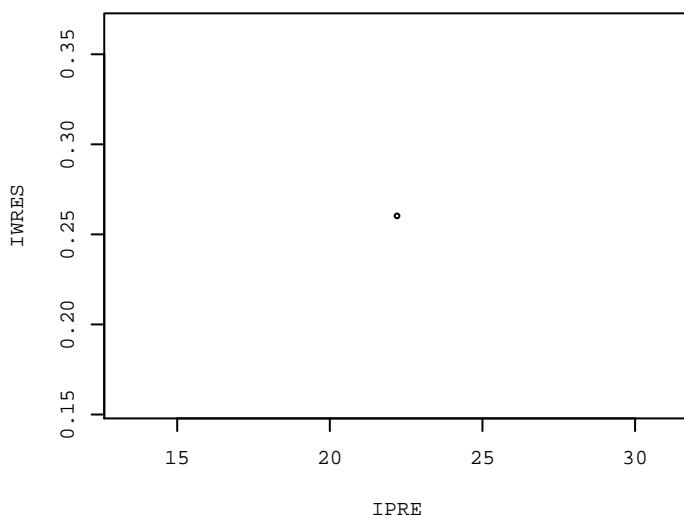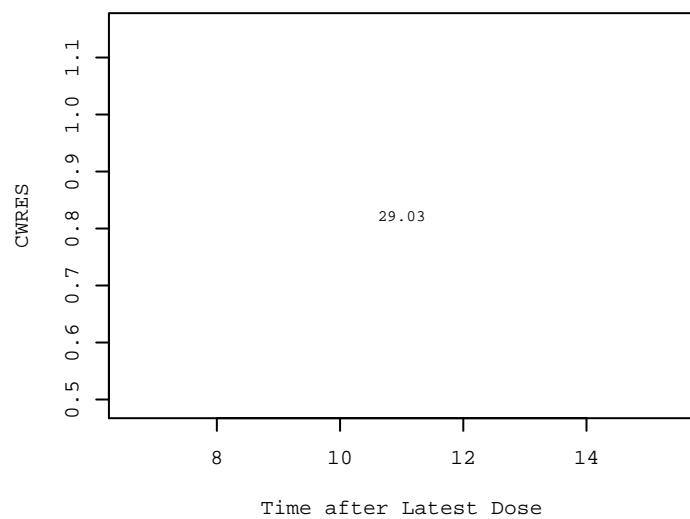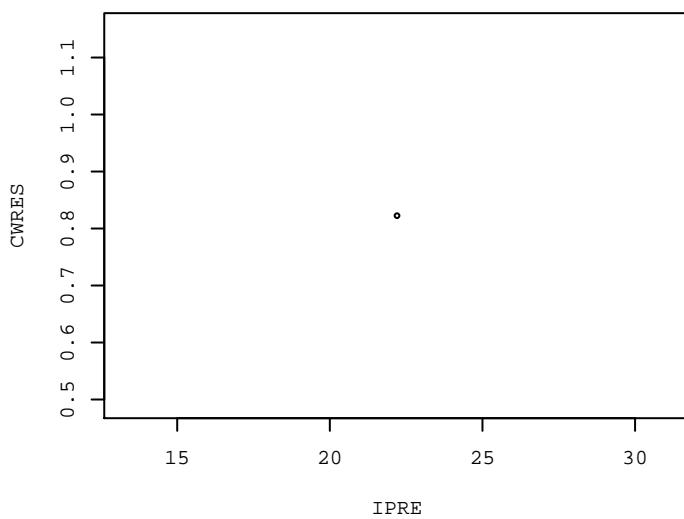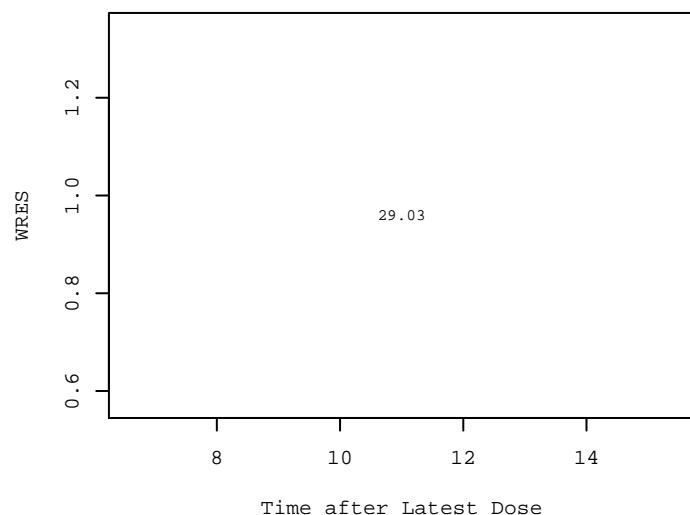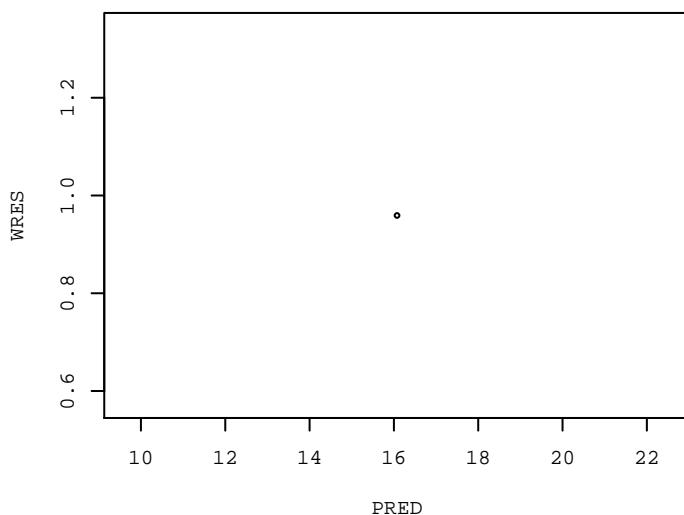
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 28
IOFV = 8.86448 , OFV per DV = 8.8645 , Run Test(CWRES) p = 1
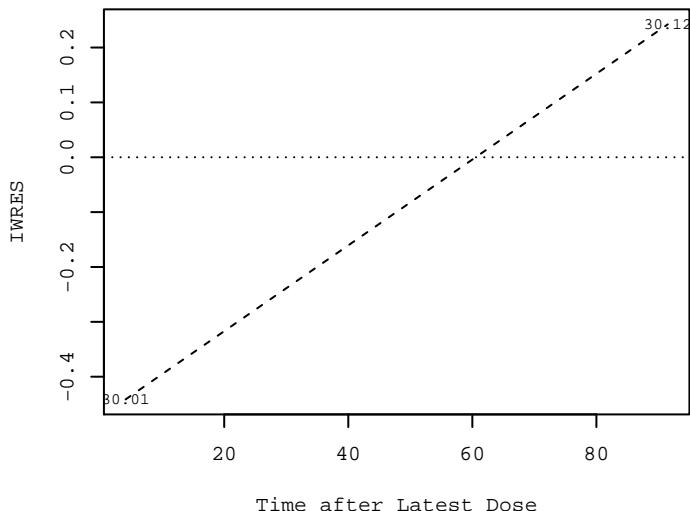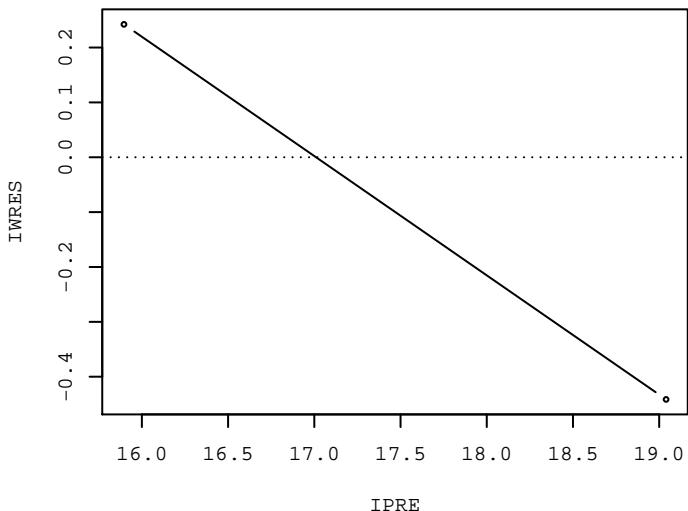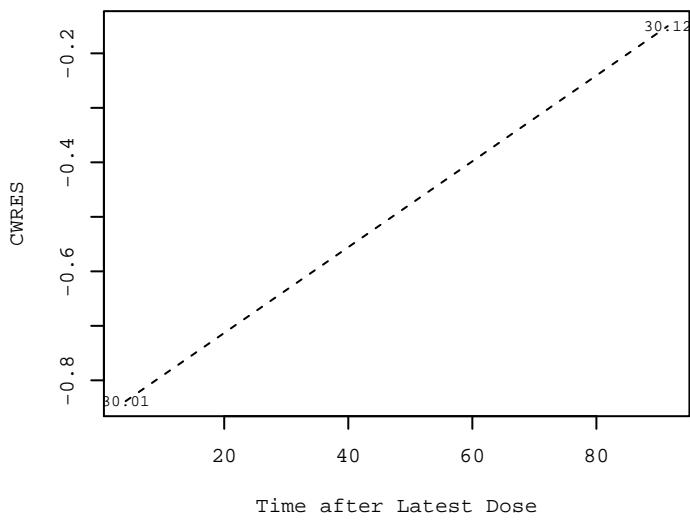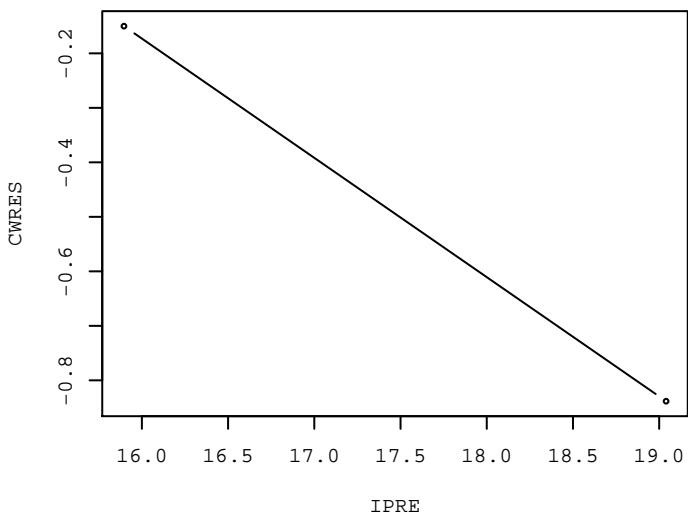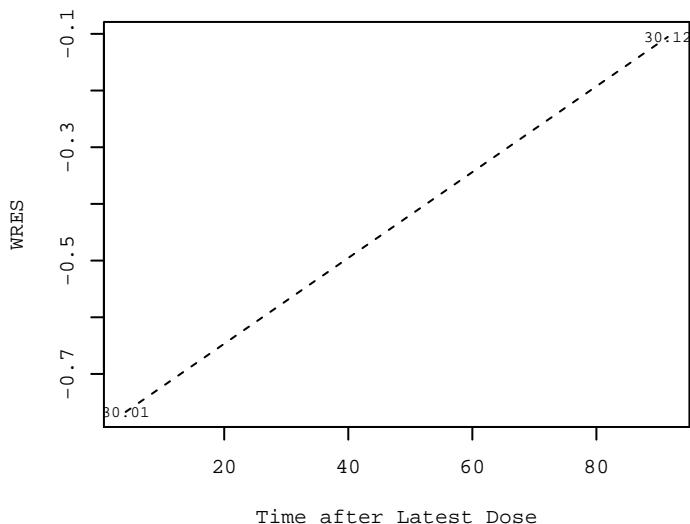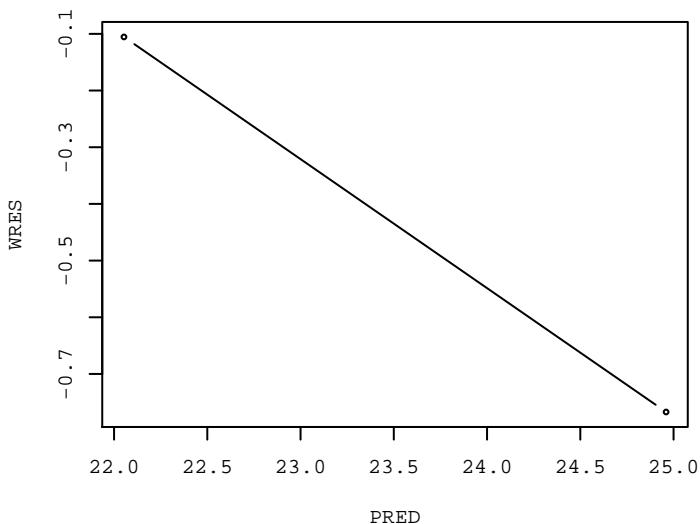
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 29
IOFV = 5.19262 , OFV per DV = 5.1926 , Run Test(CWRES) p = 1
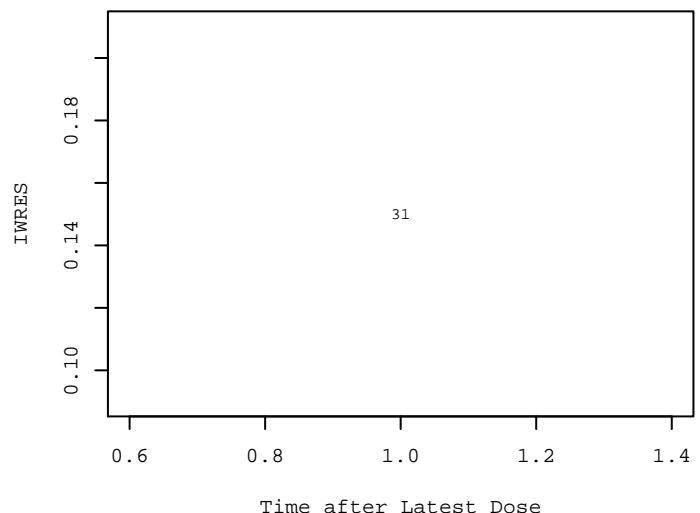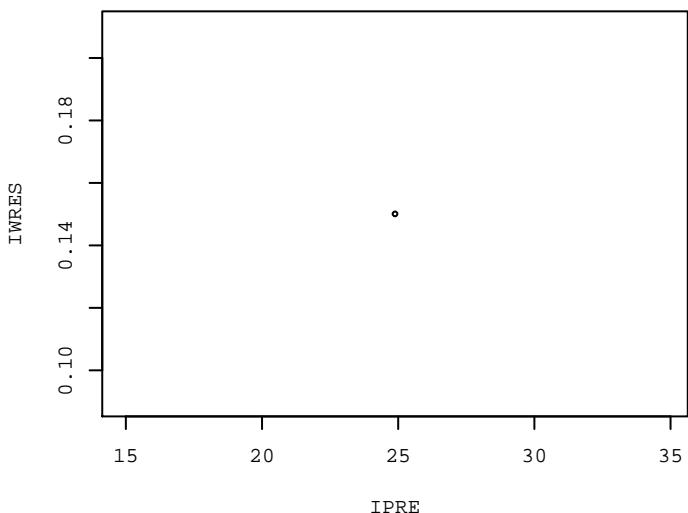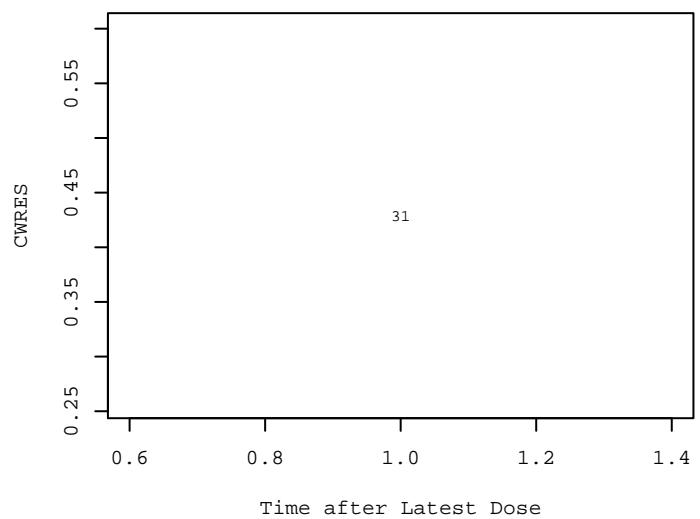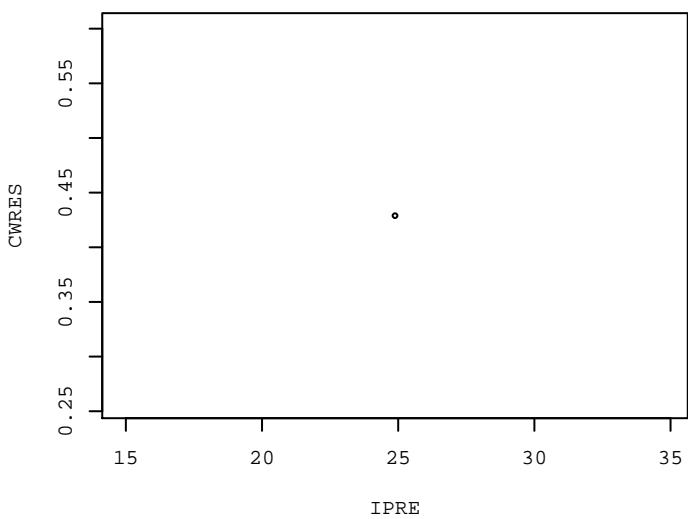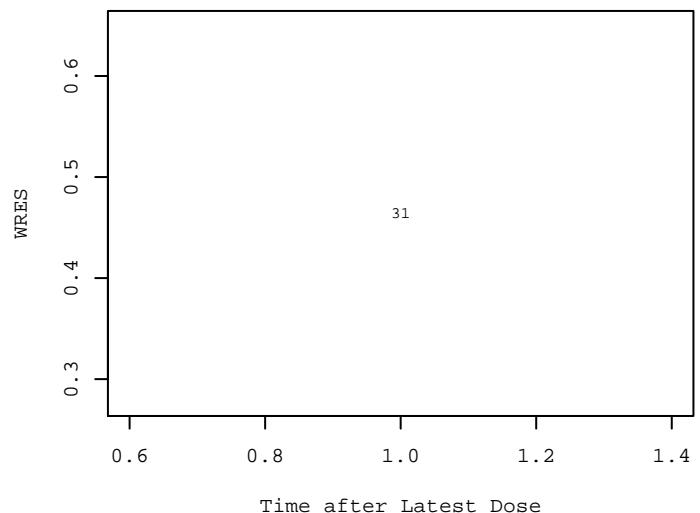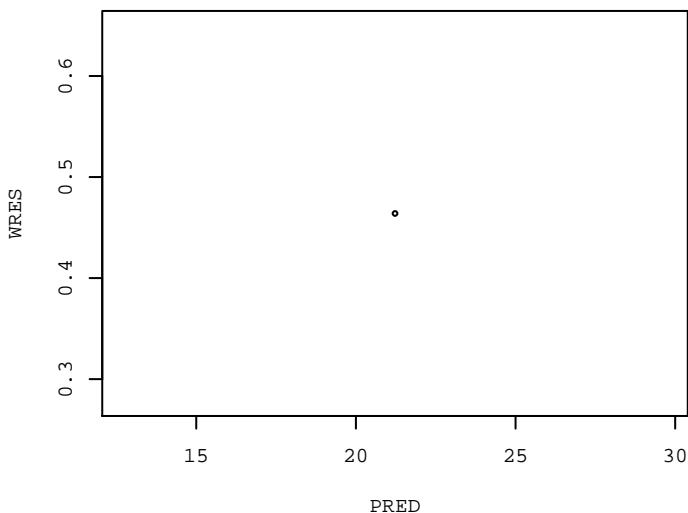

*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 30
IOFV = 7.48013 , OFV per DV = 3.7401 , Run Test(CWRES) p = 0.5
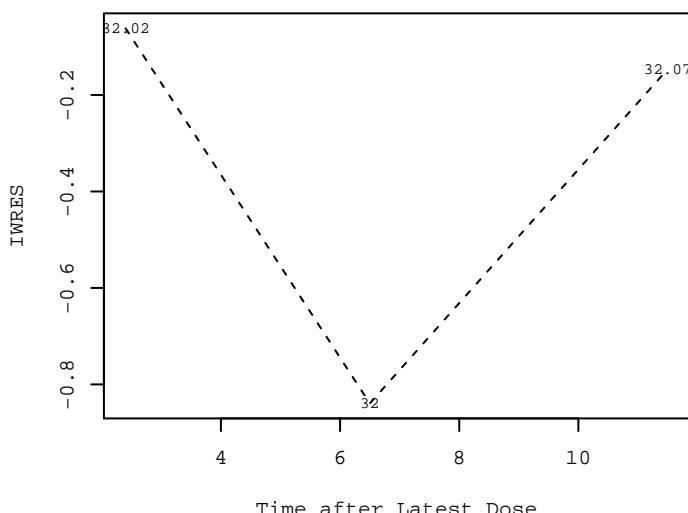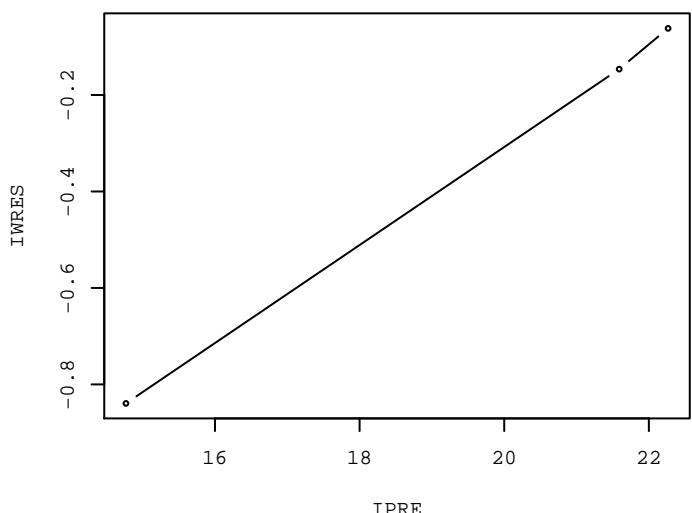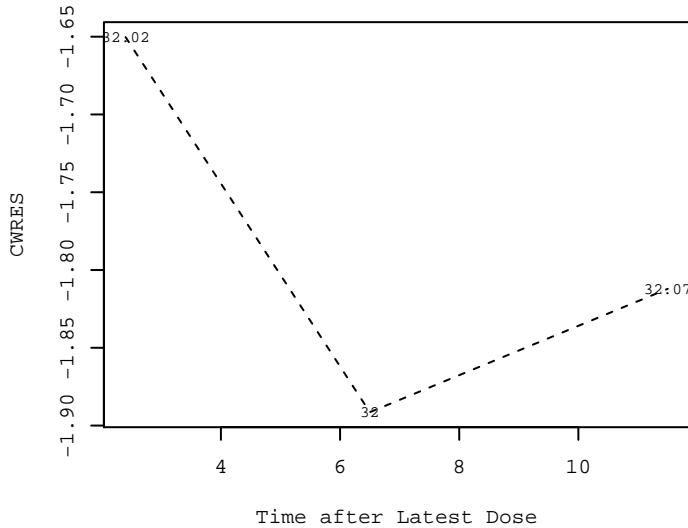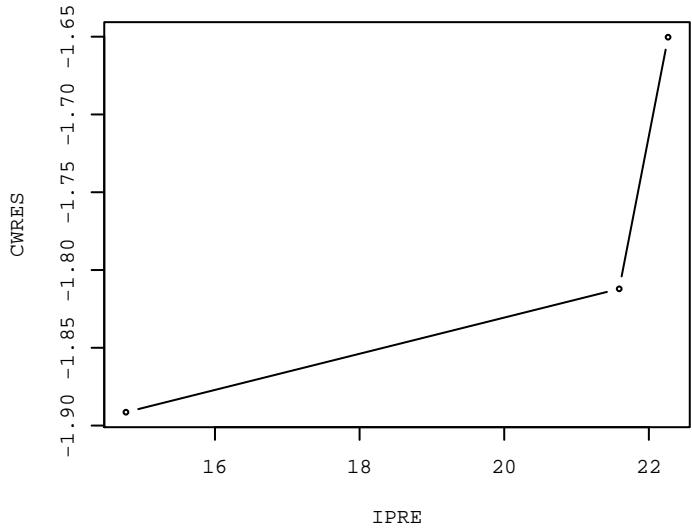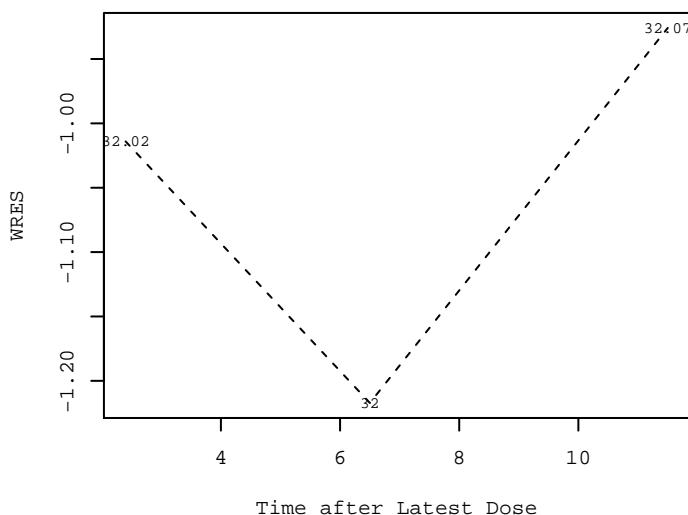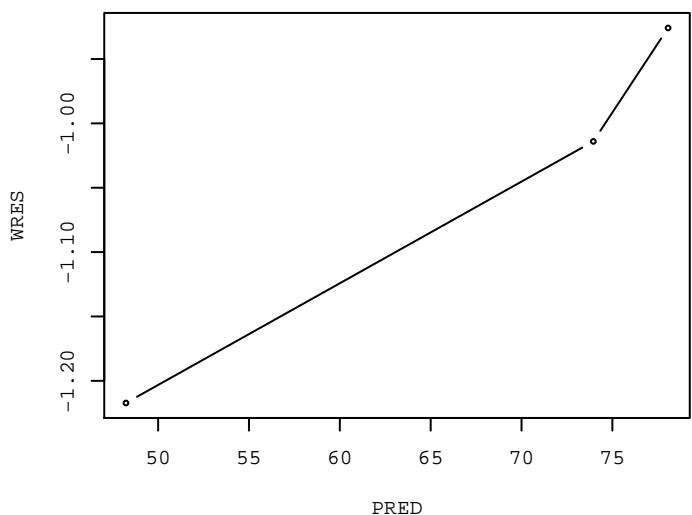

*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 31
IOFV = 4.83175 , OFV per DV = 4.8318 , Run Test(CWRES) p = 1
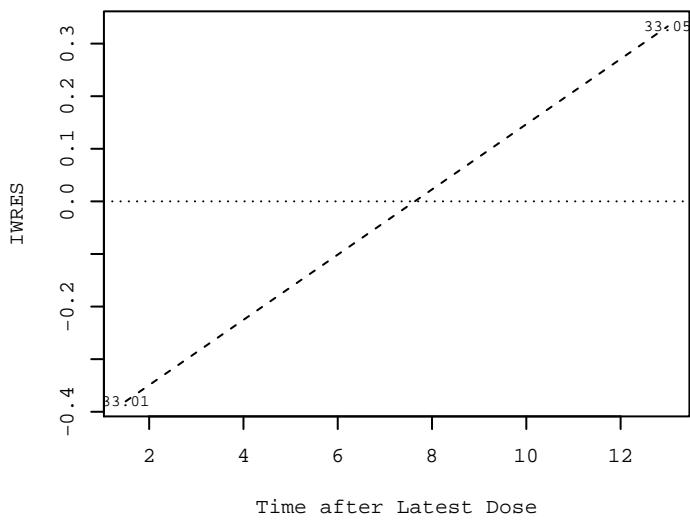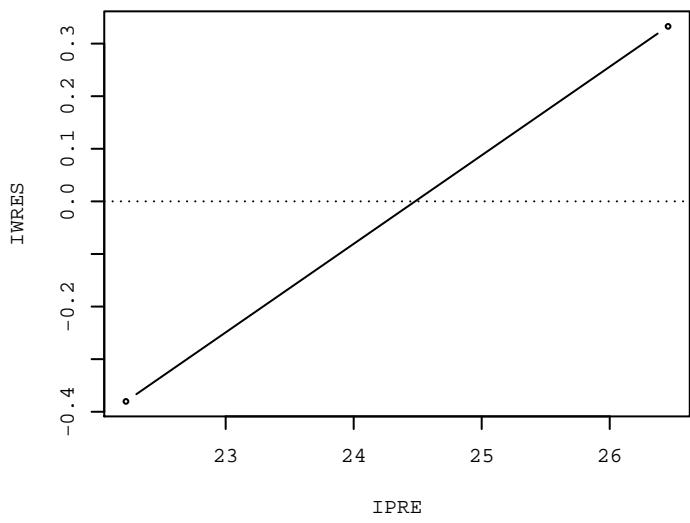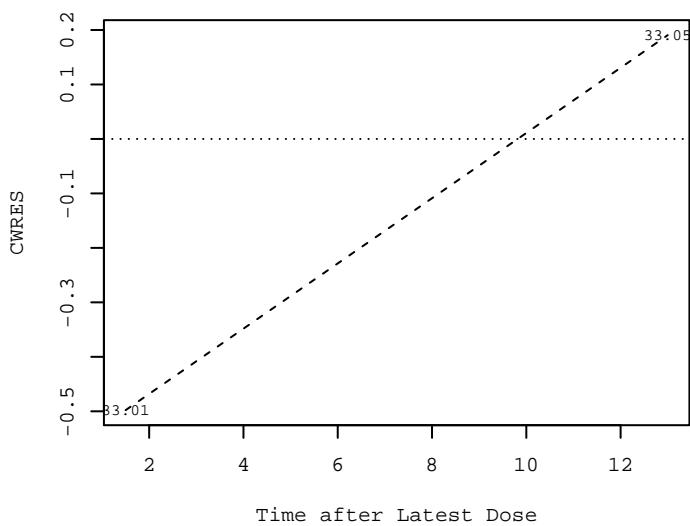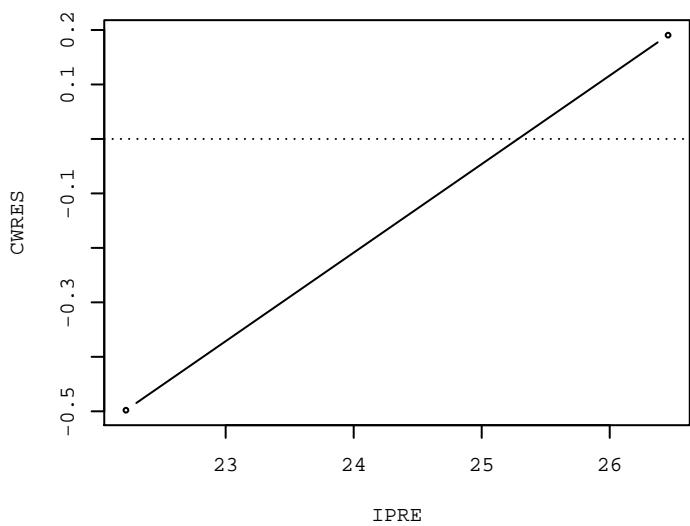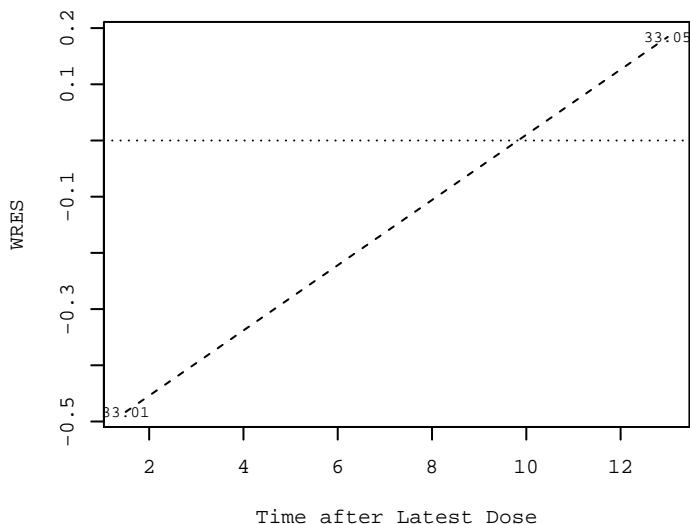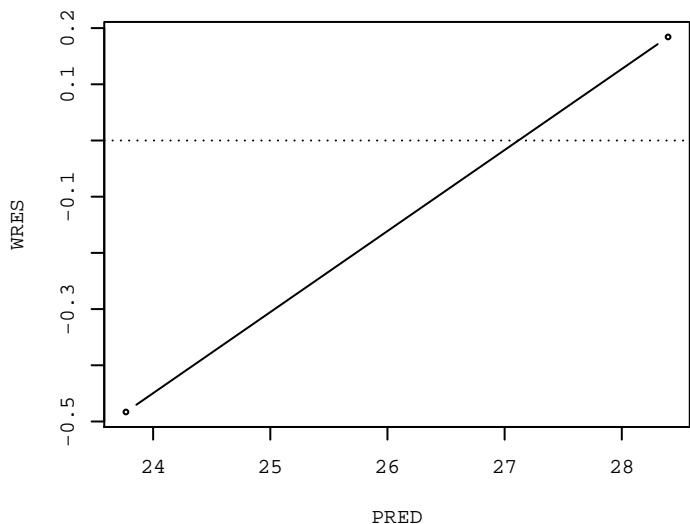
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 32
IOFV = 18.7671 , OFV per DV = 6.2557 , Run Test(CWRES) p = 0.25
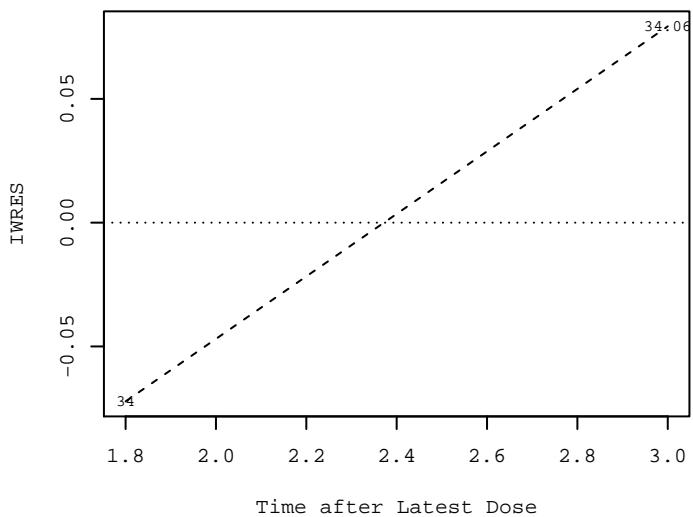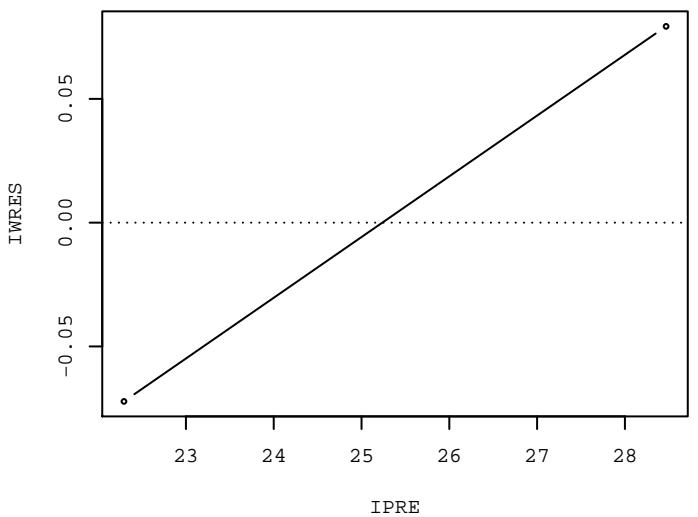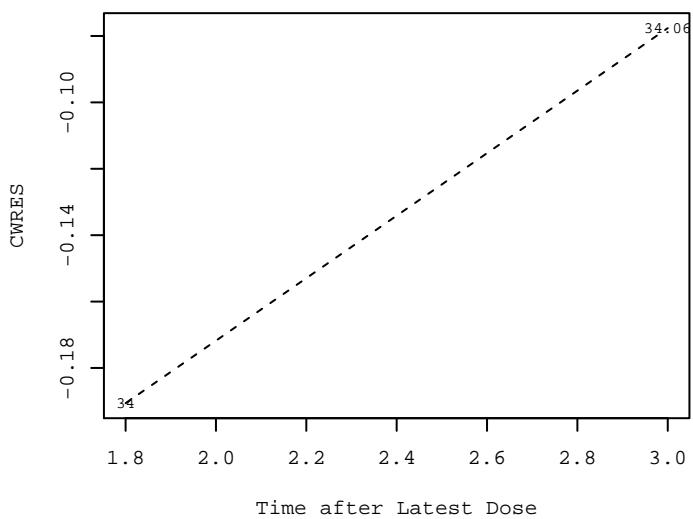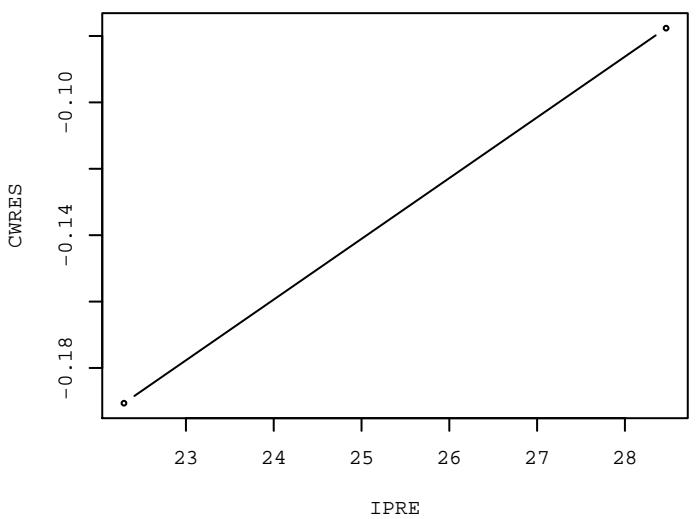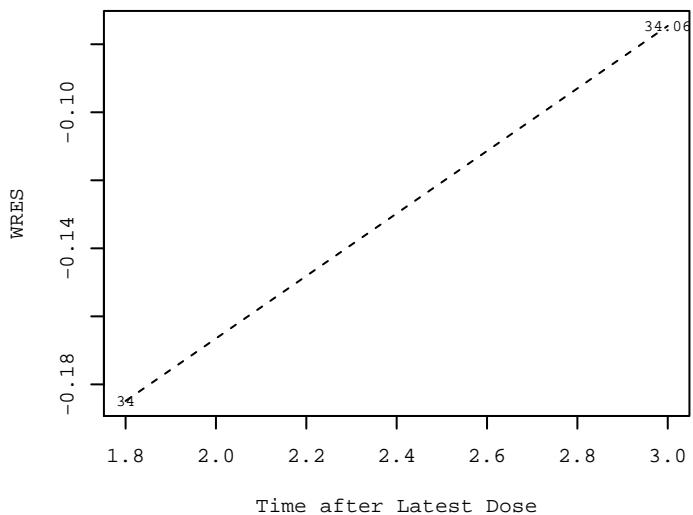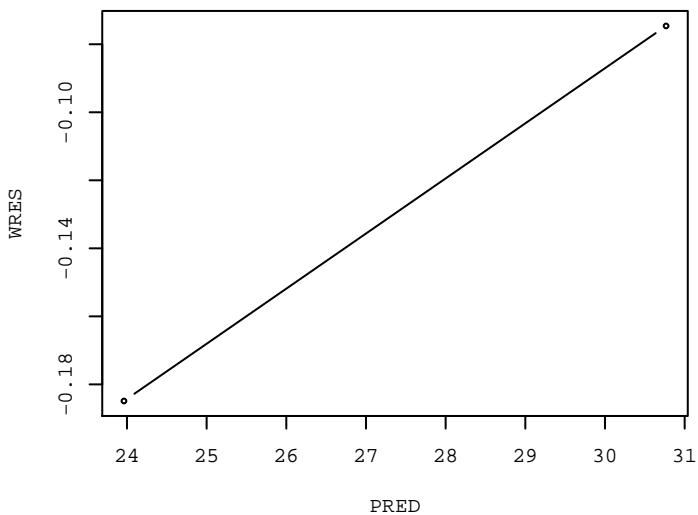
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 33
IOFV = 7.6568 , OFV per DV = 3.8284 , Run Test(CWRES) p = 1
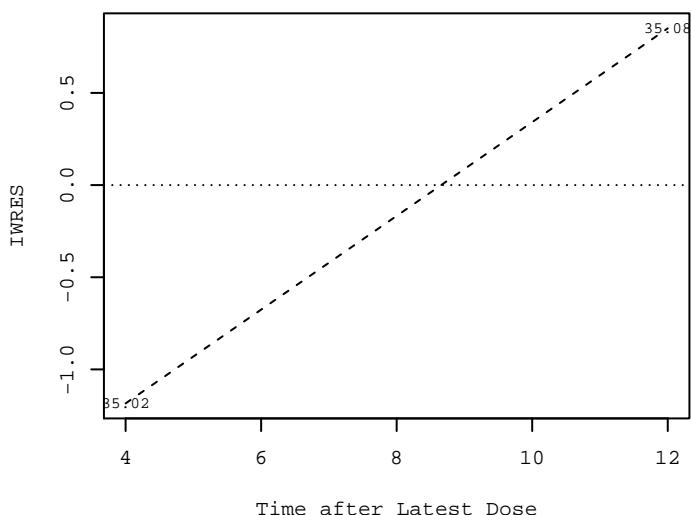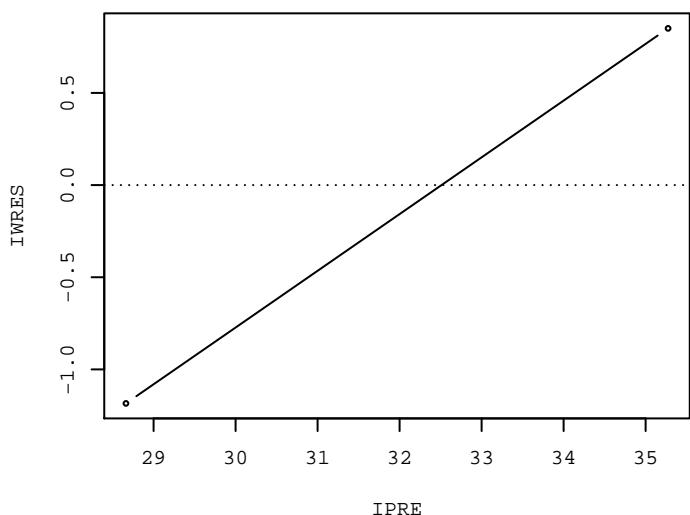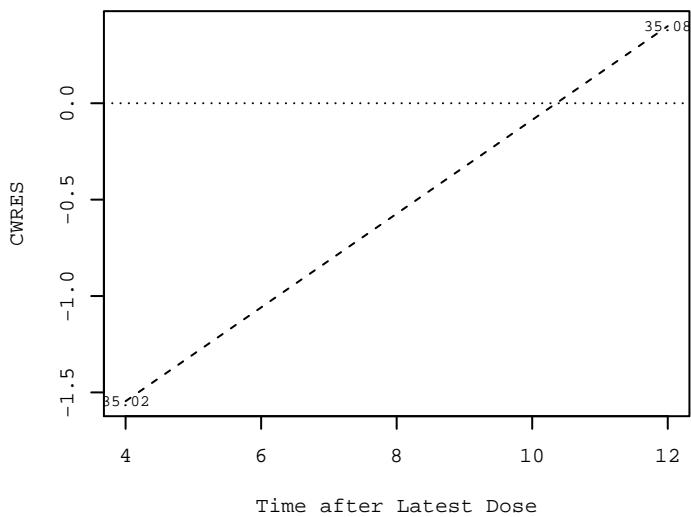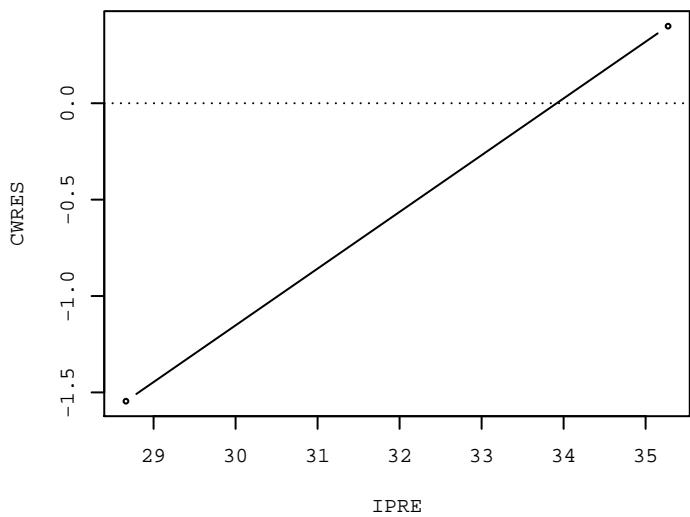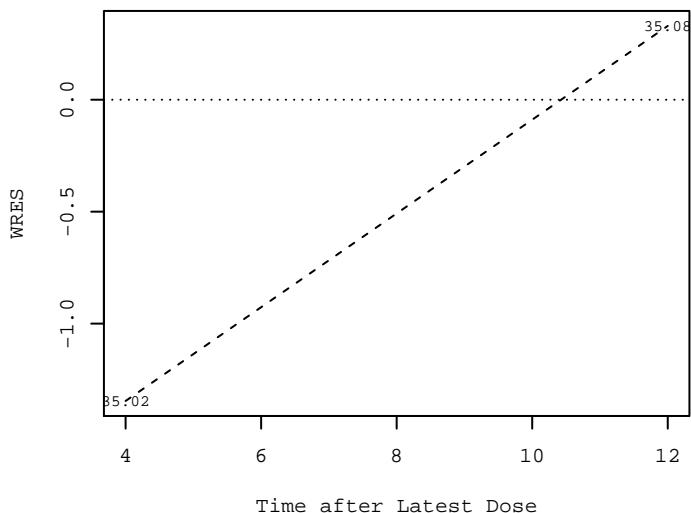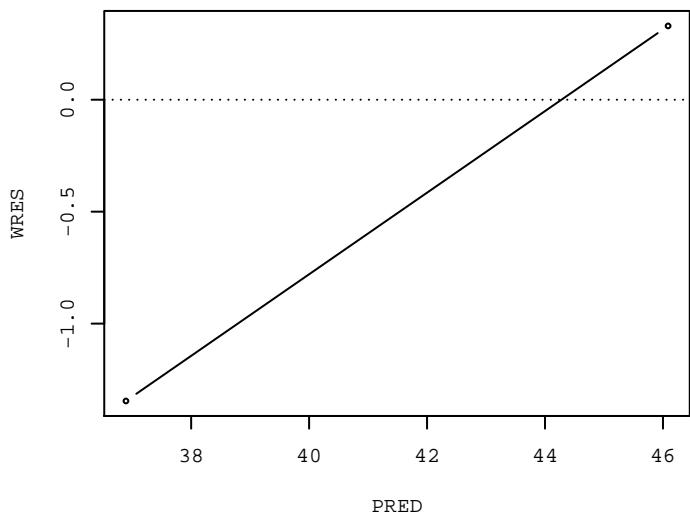
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 34
IOFV = 7.54757 , OFV per DV = 3.7738 , Run Test(CWRES) p = 0.5
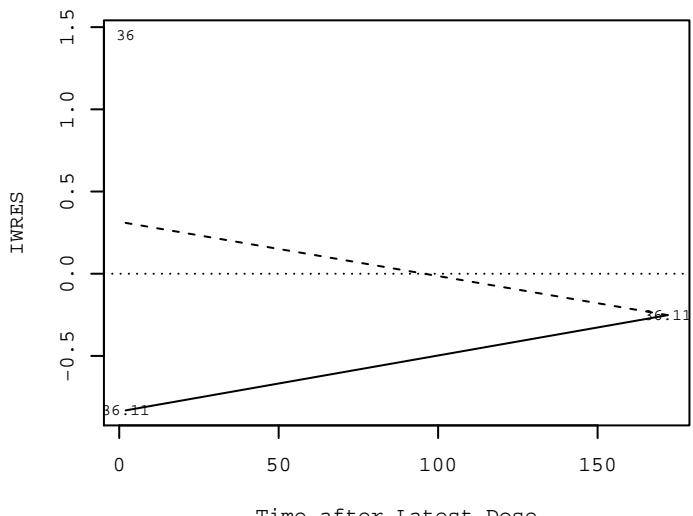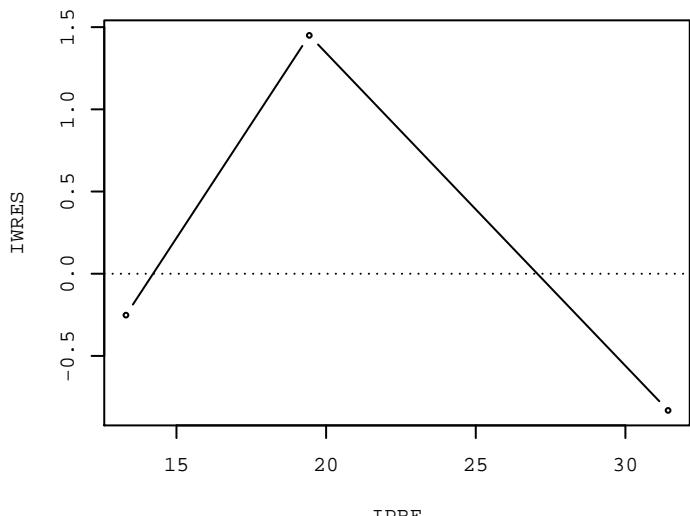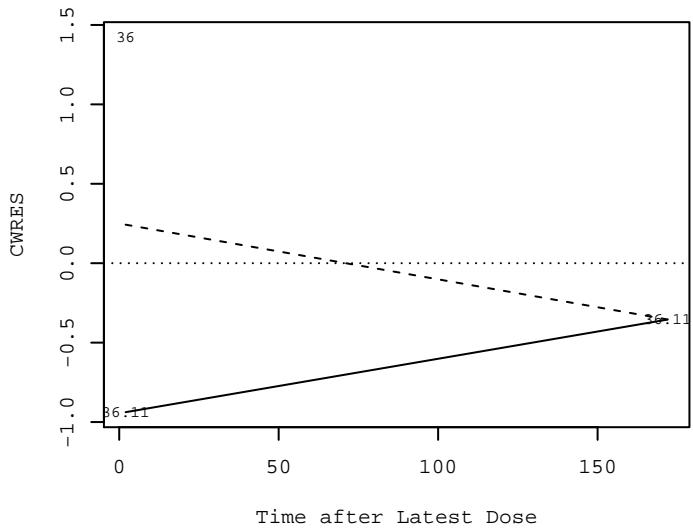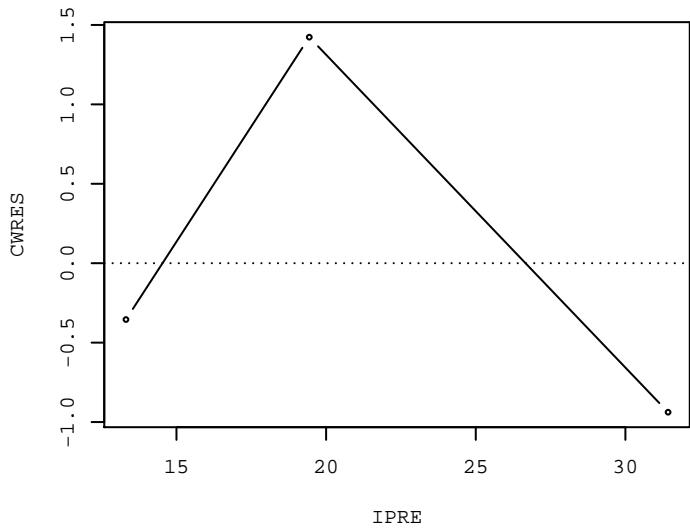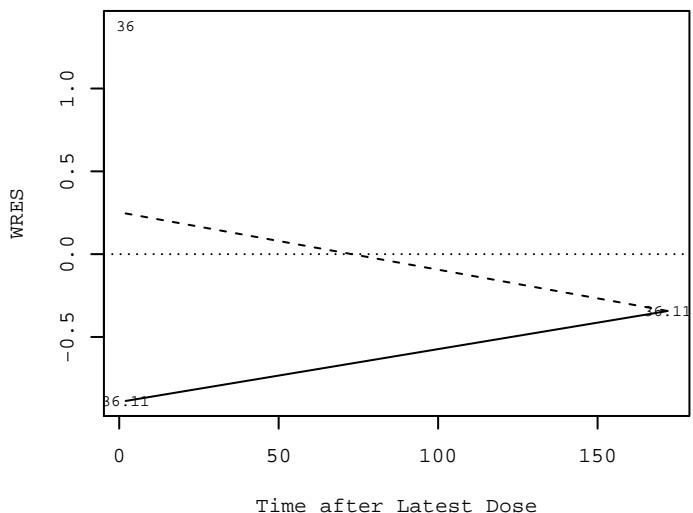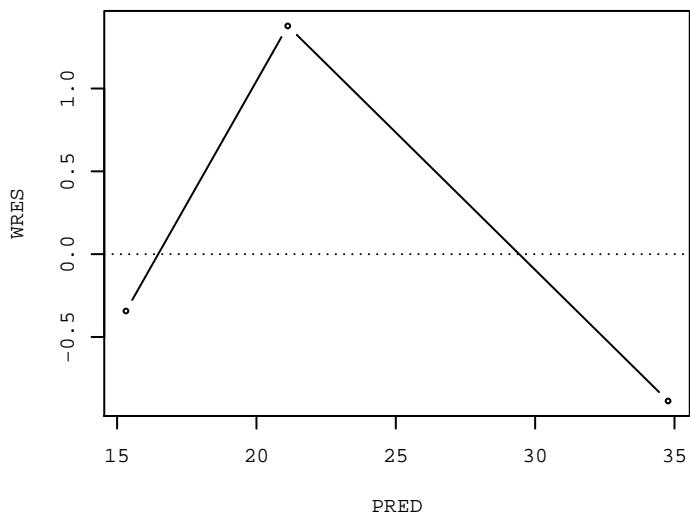
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 35
IOFV = 10.7121 , OFV per DV = 5.356 , Run Test(CWRES) p = 1
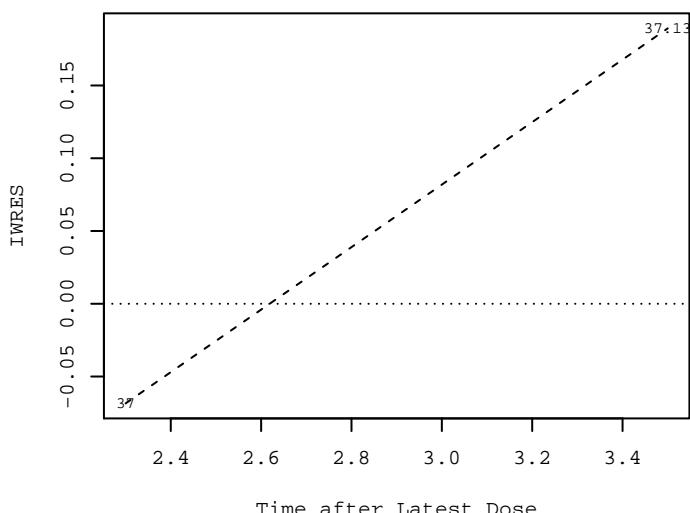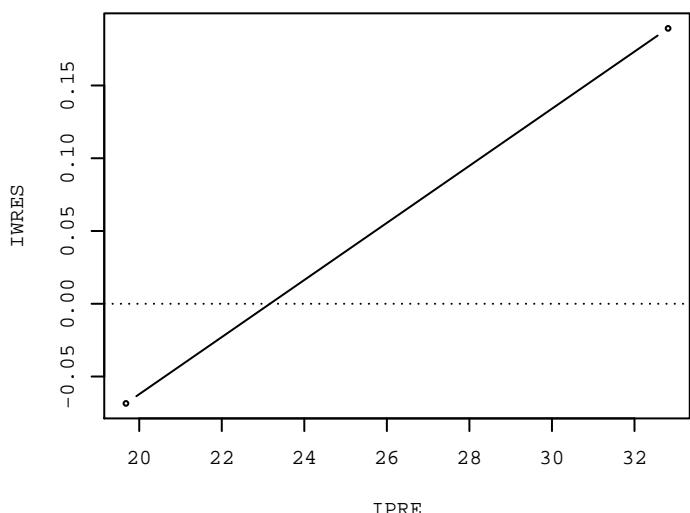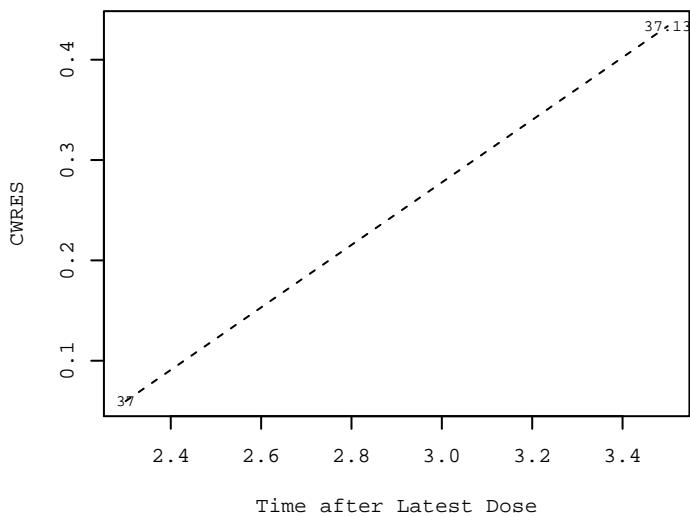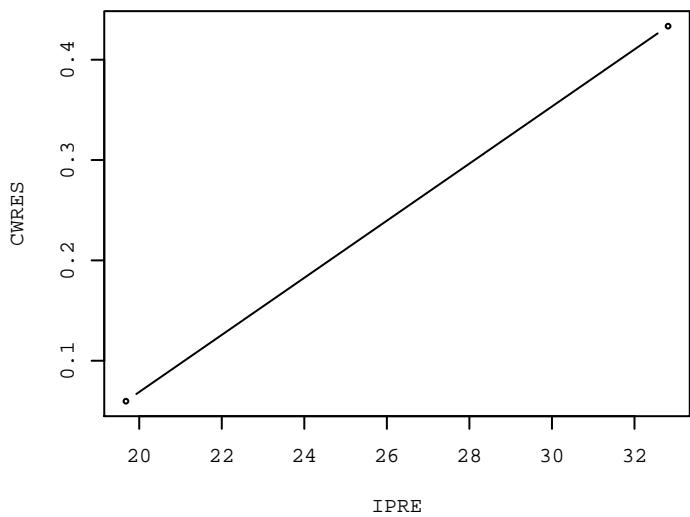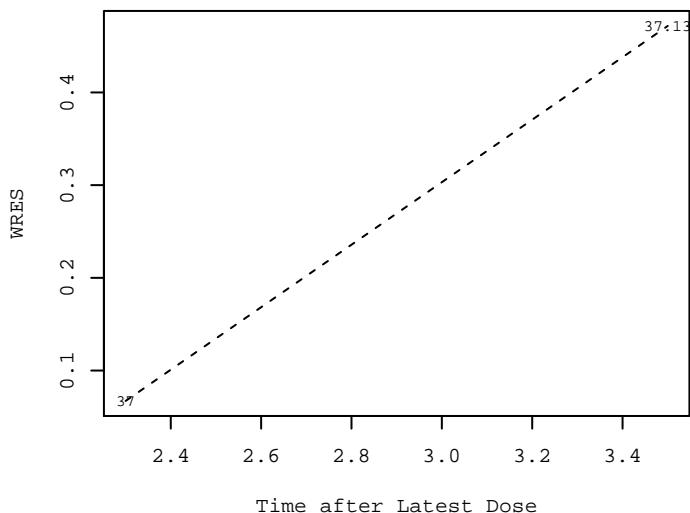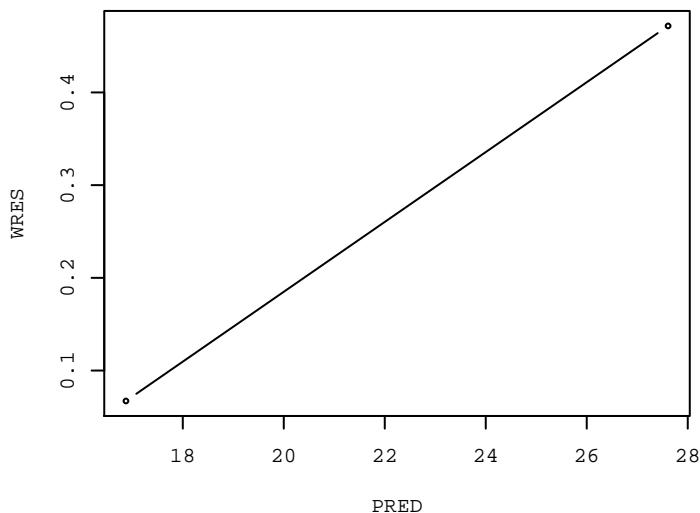

*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 36
IOFV = 12.701 , OFV per DV = 4.2337 , Run Test(CWRES) p = 1
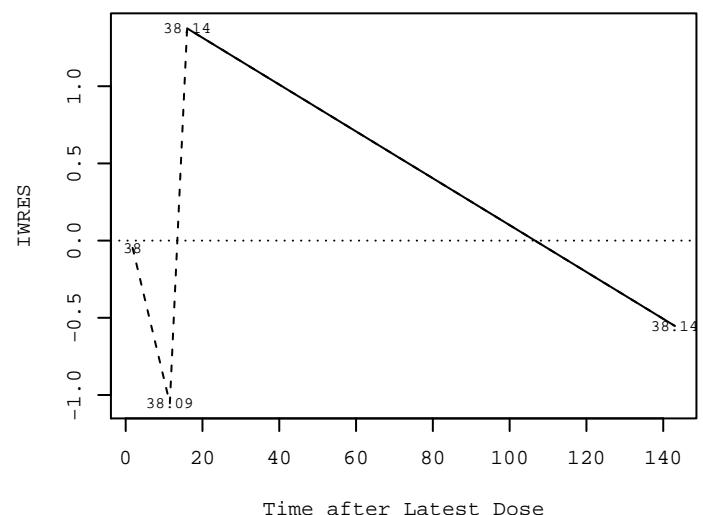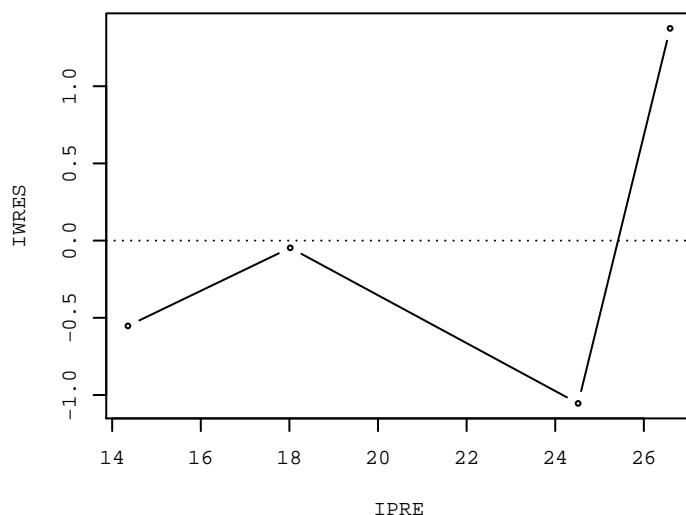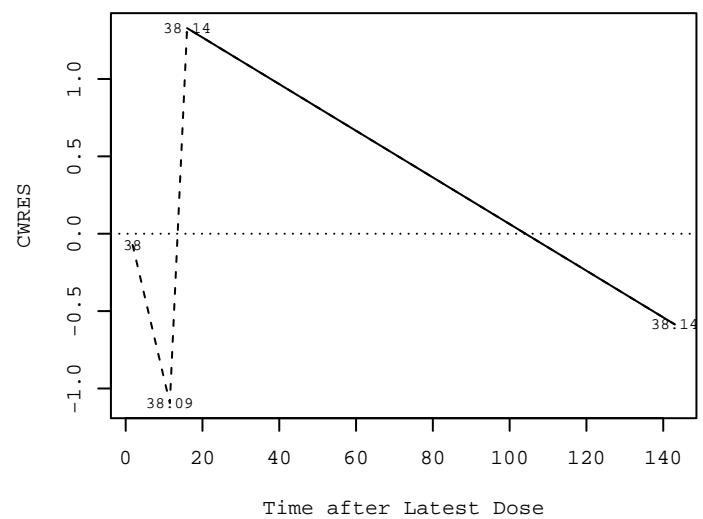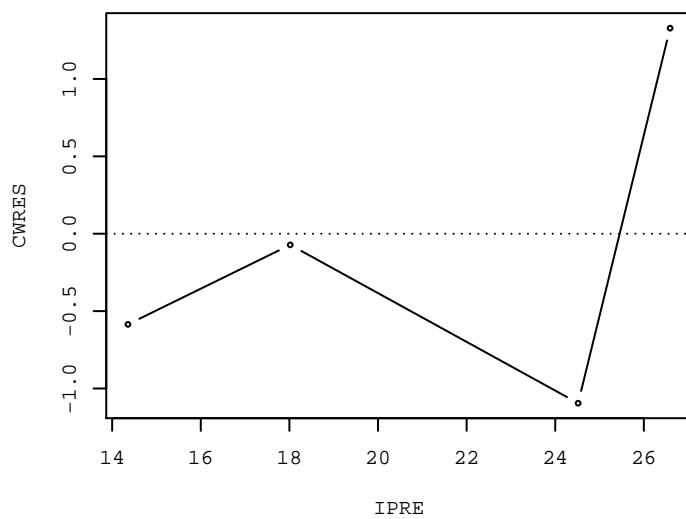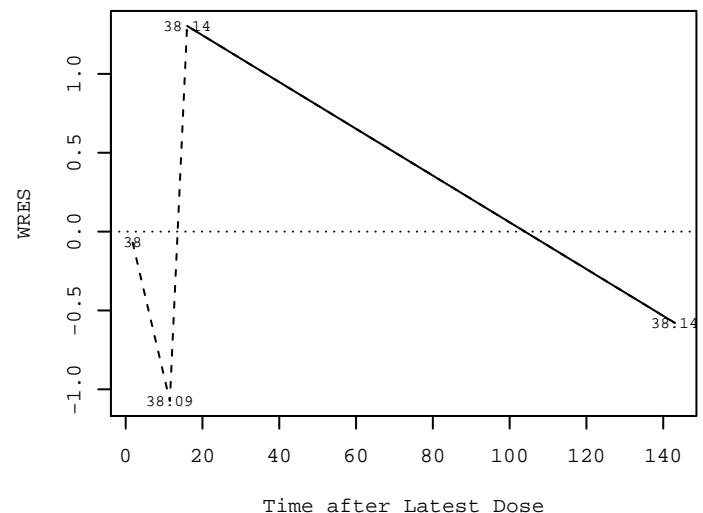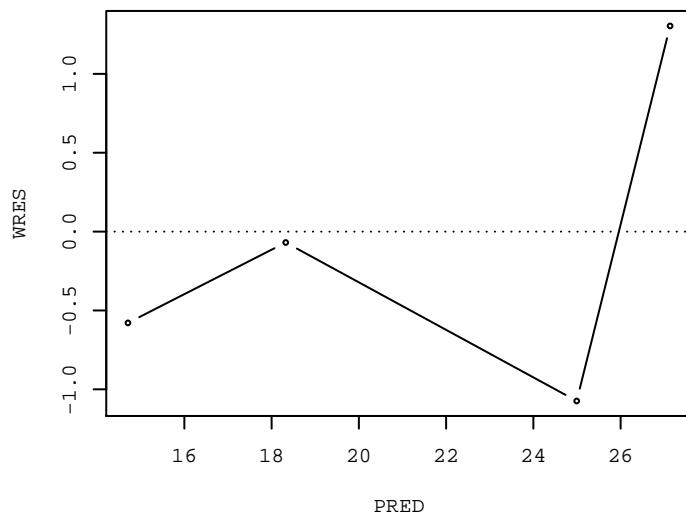
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 37
IOFV = 7.85162 , OFV per DV = 3.9258 , Run Test(CWRES) p = 0.5
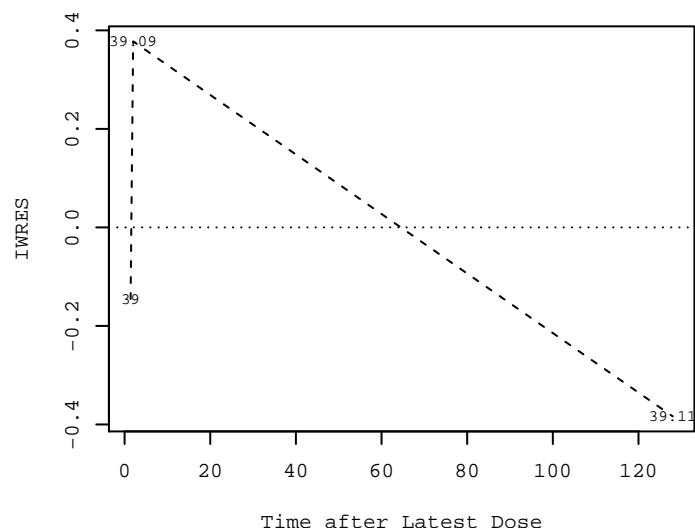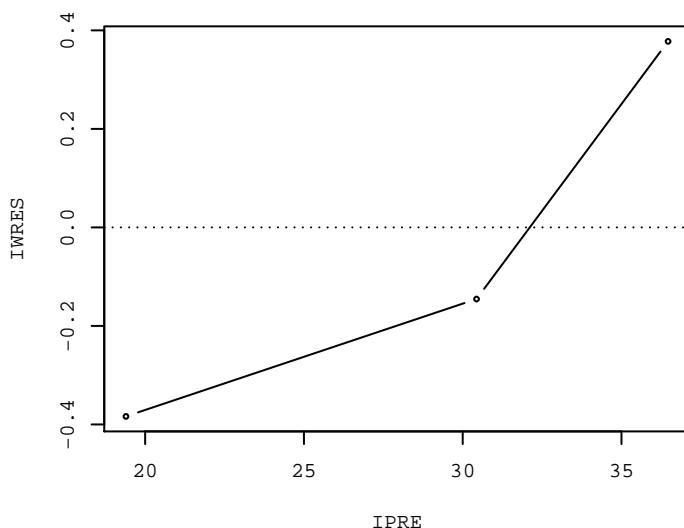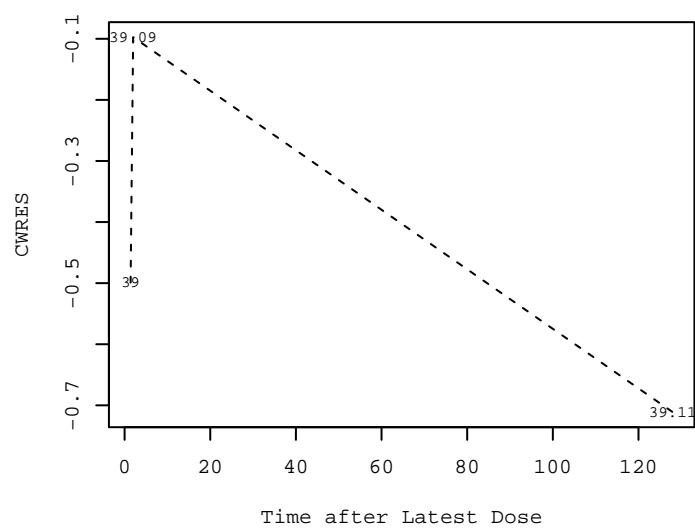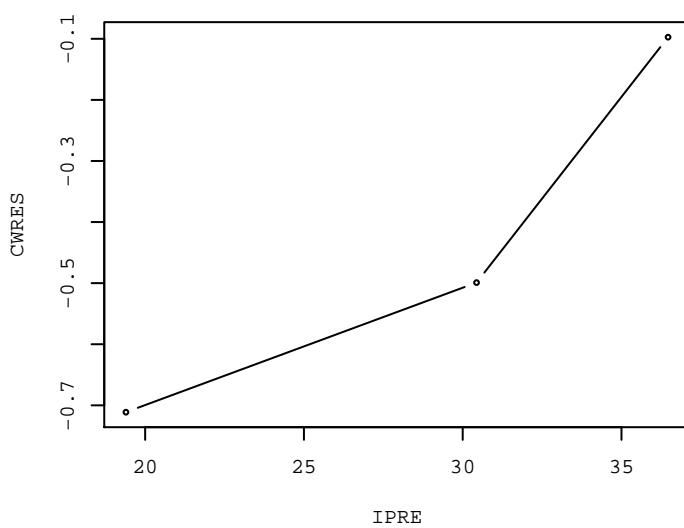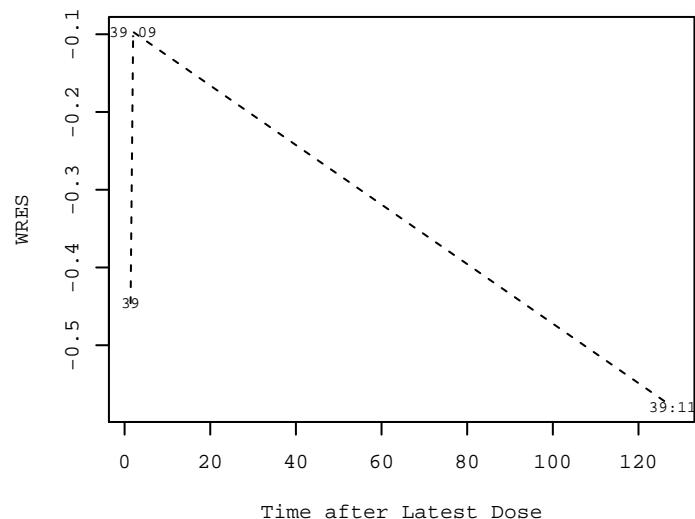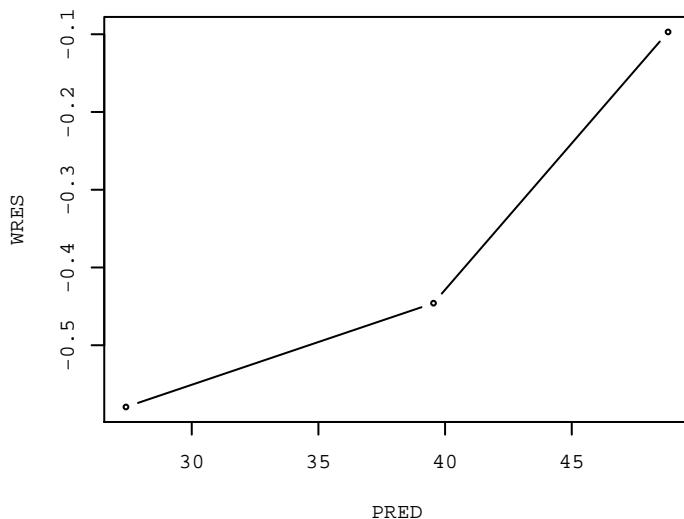
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 38

IOFV = 15.131 , OFV per DV = 3.7828 , Run Test(CWRES) p = 0.5
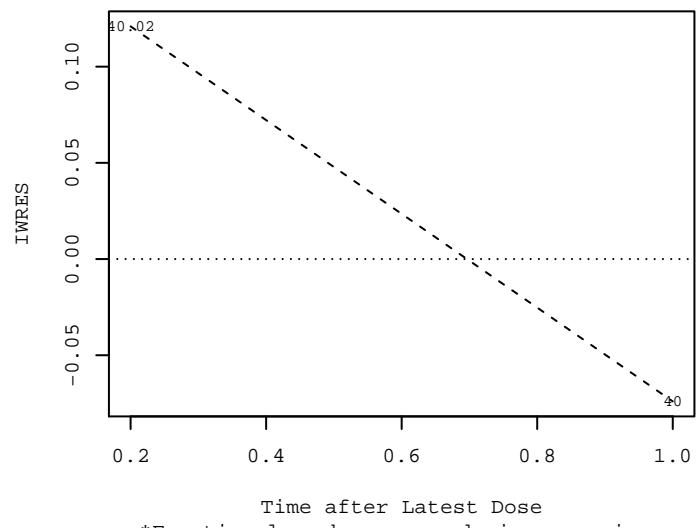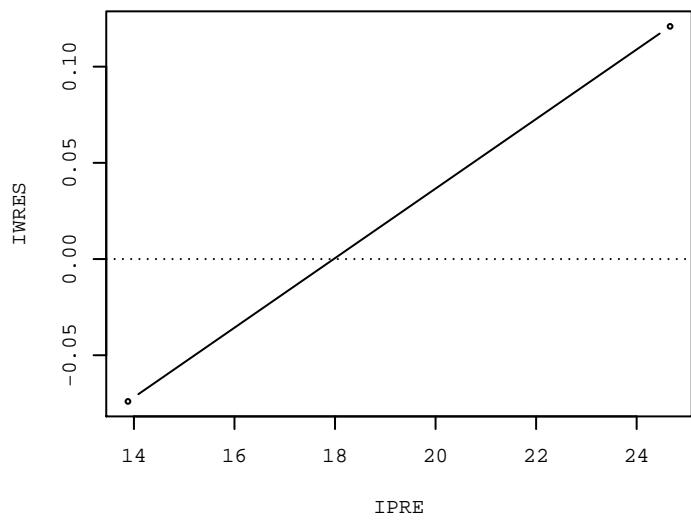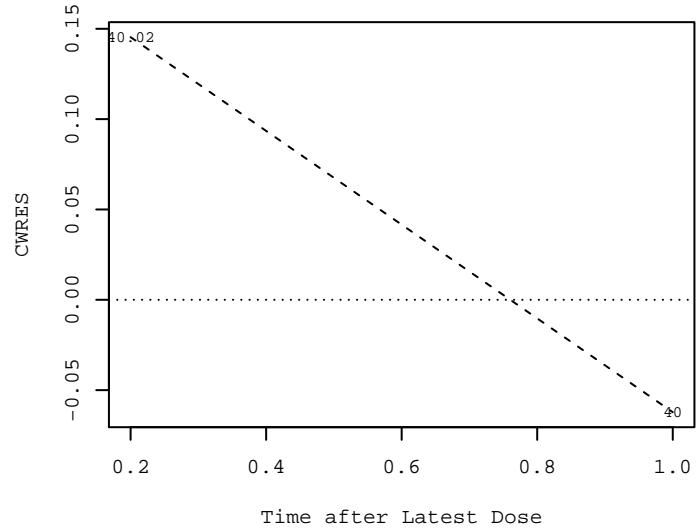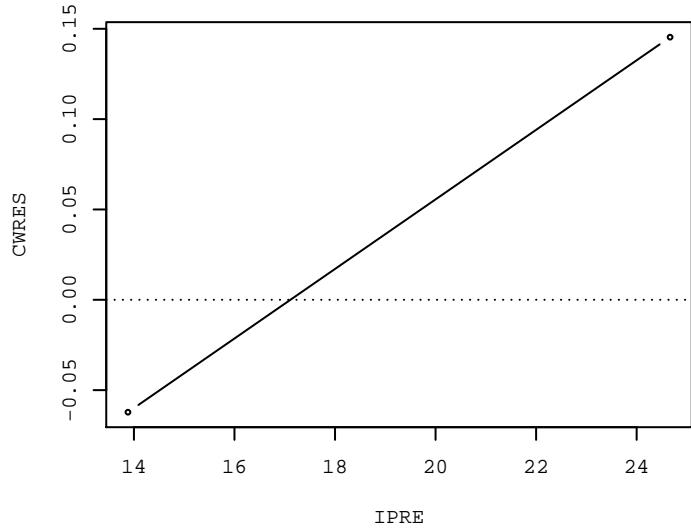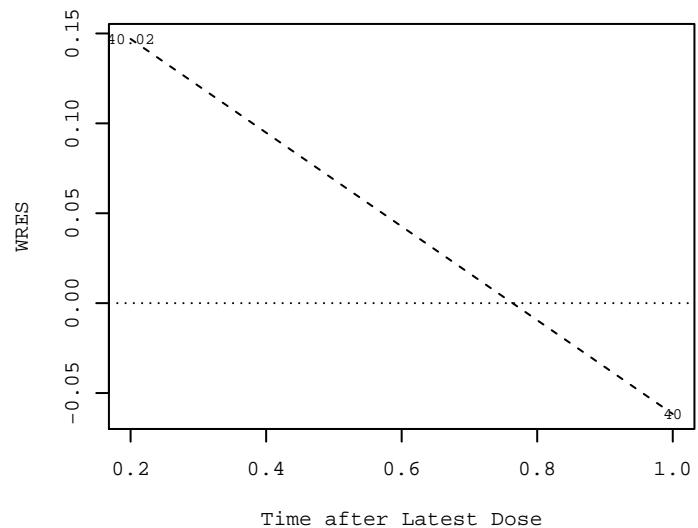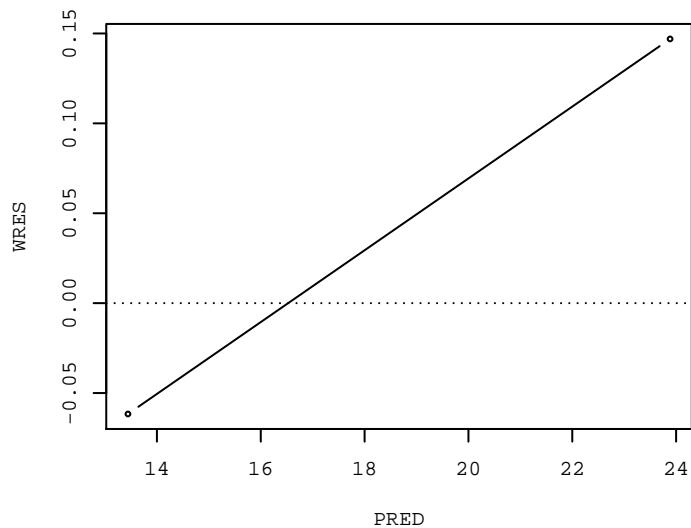
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 39
IOFV = 11.4078 , OFV per DV = 3.8026 , Run Test(CWRES) p = 0.25
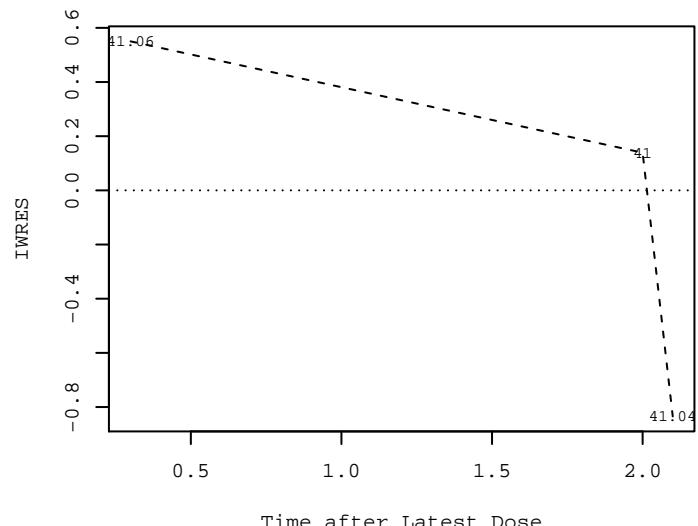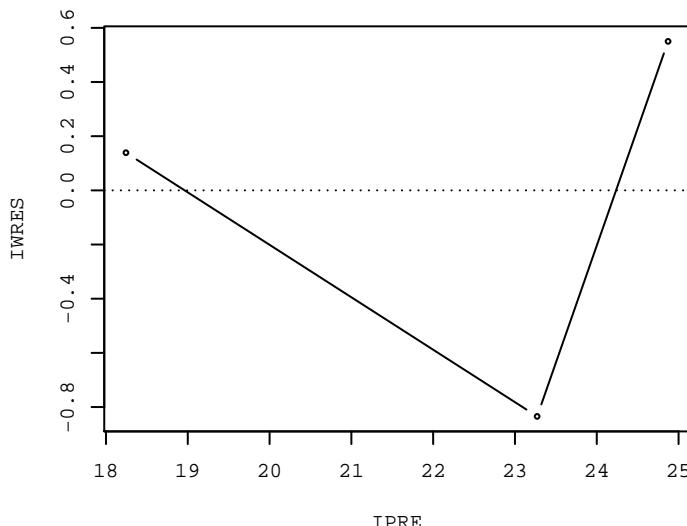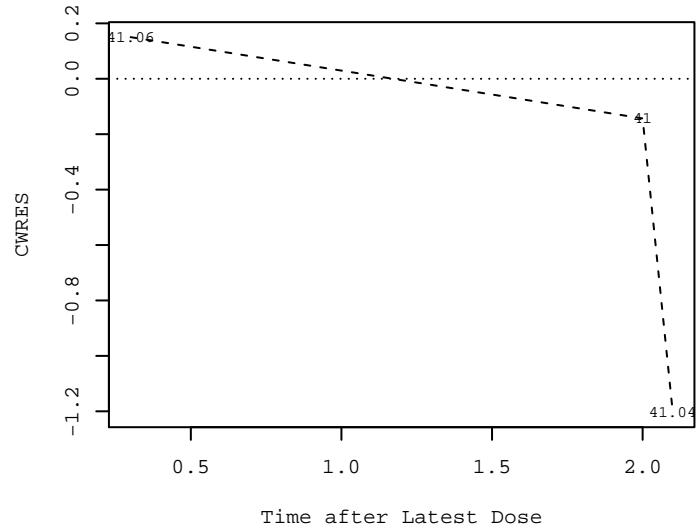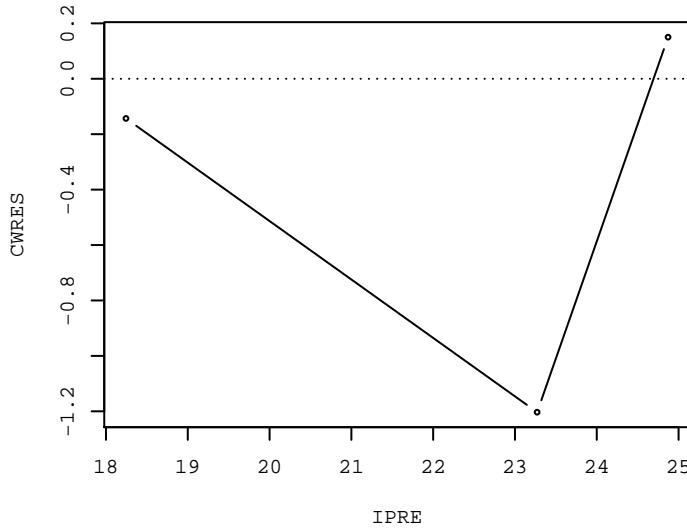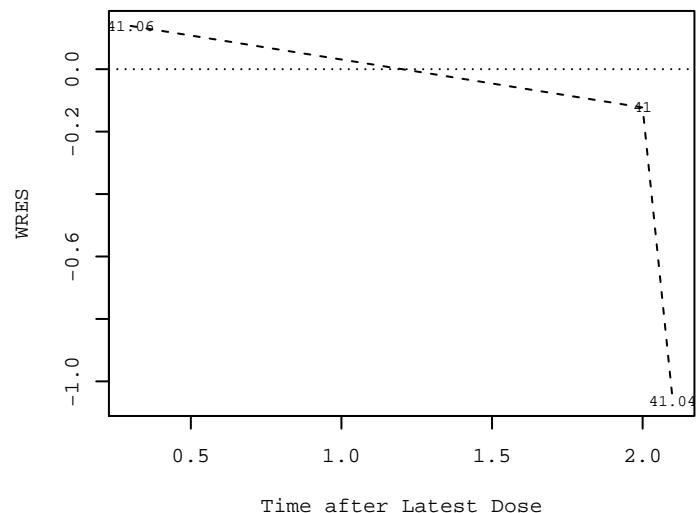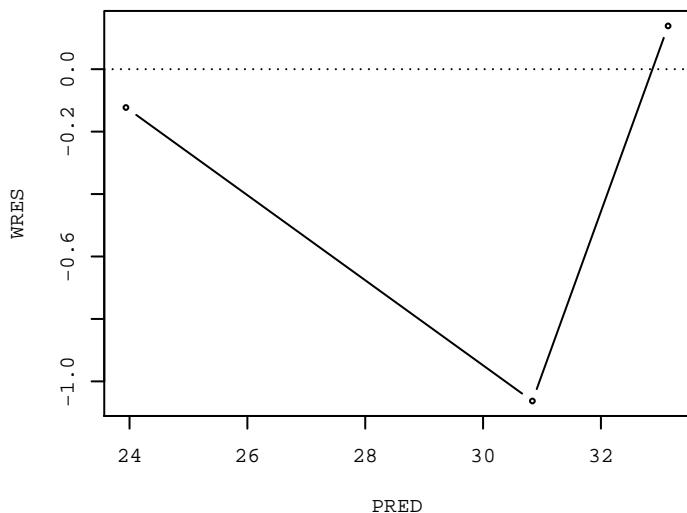
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 40
IOFV = 6.76564 , OFV per DV = 3.3828 , Run Test(CWRES) p = 1
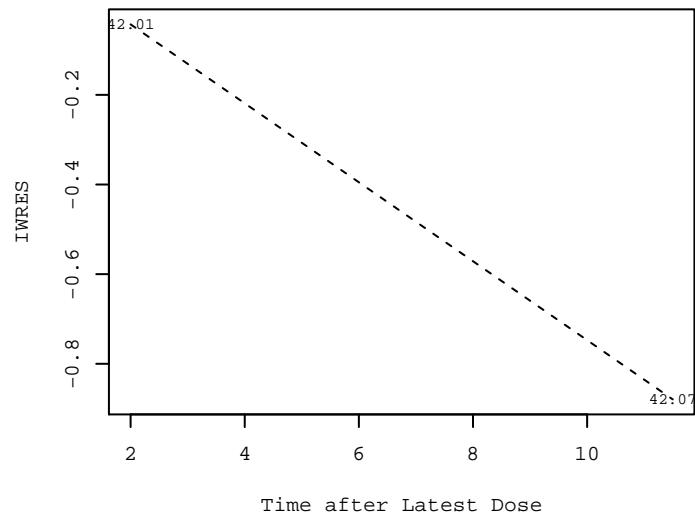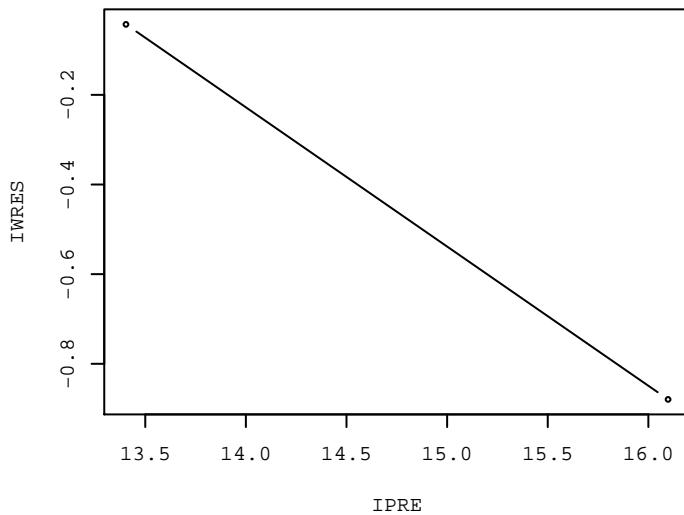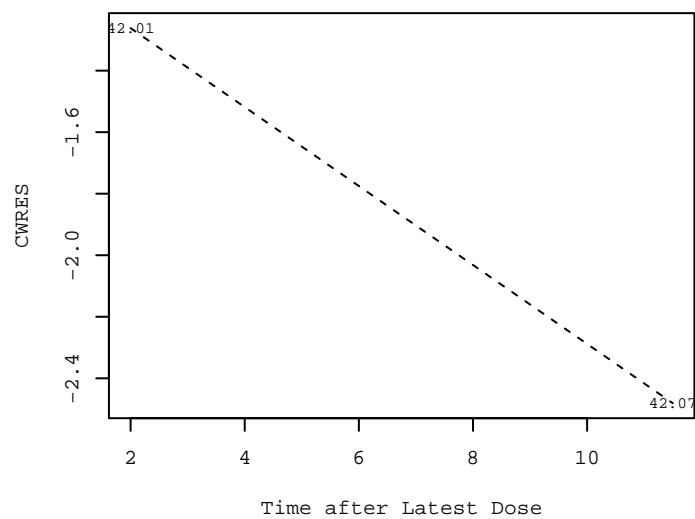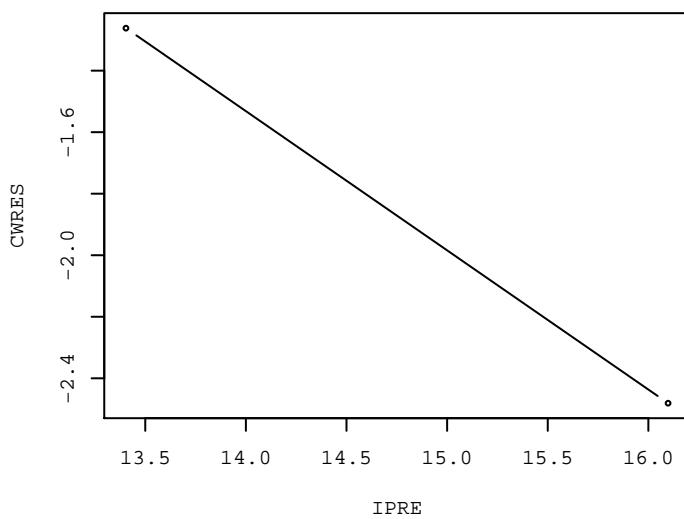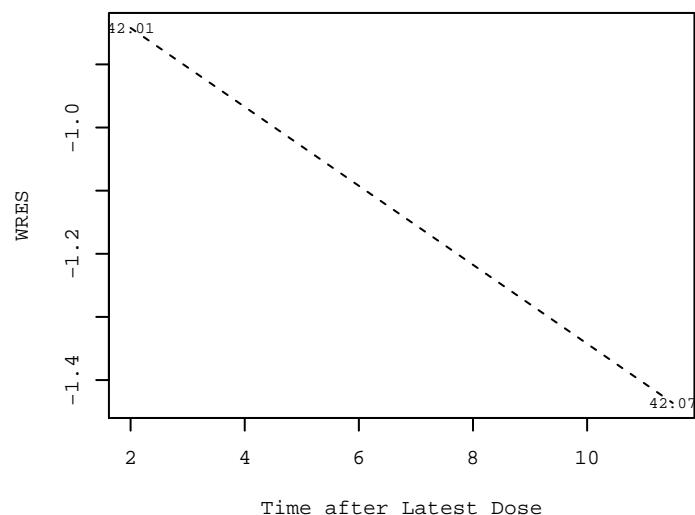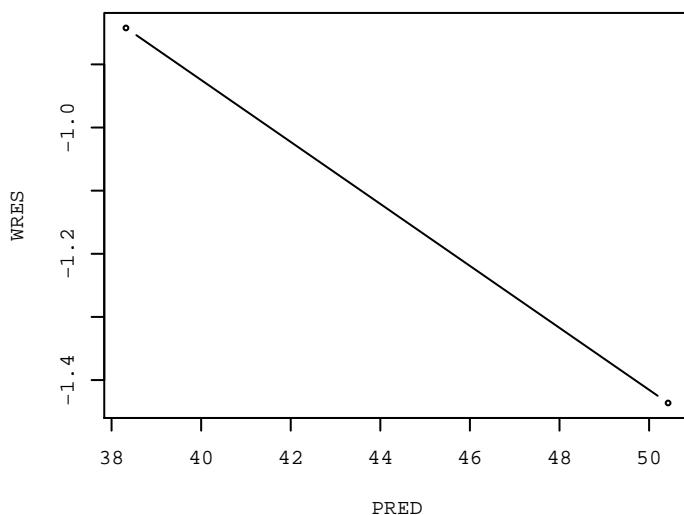
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 41
IOFV = 10.987 , OFV per DV = 3.6623 , Run Test(CWRES) p = 1
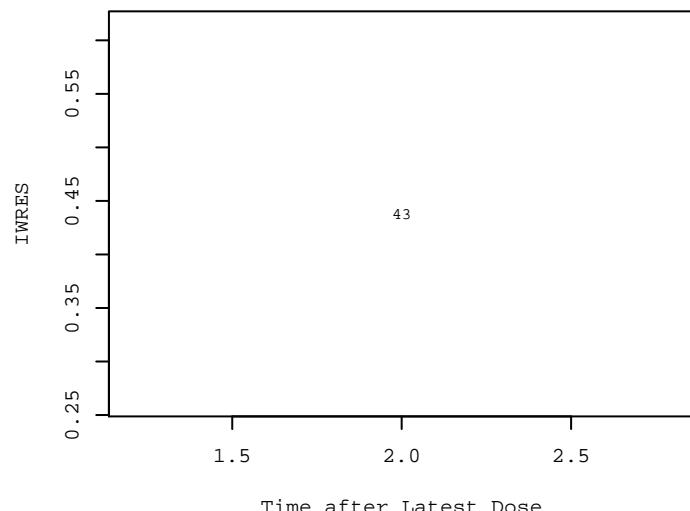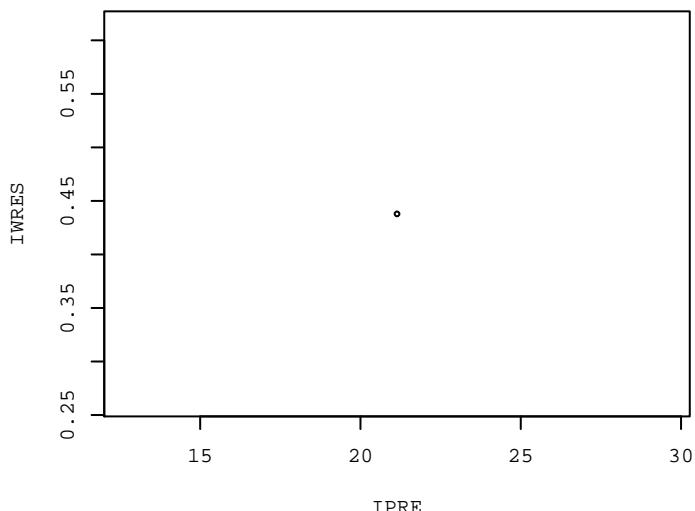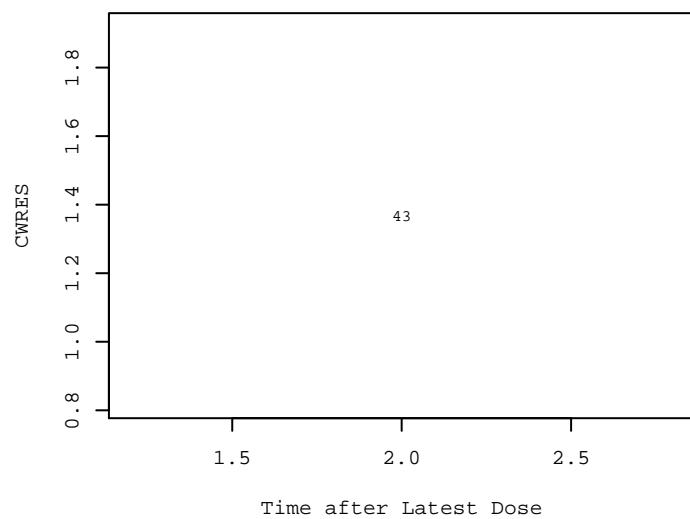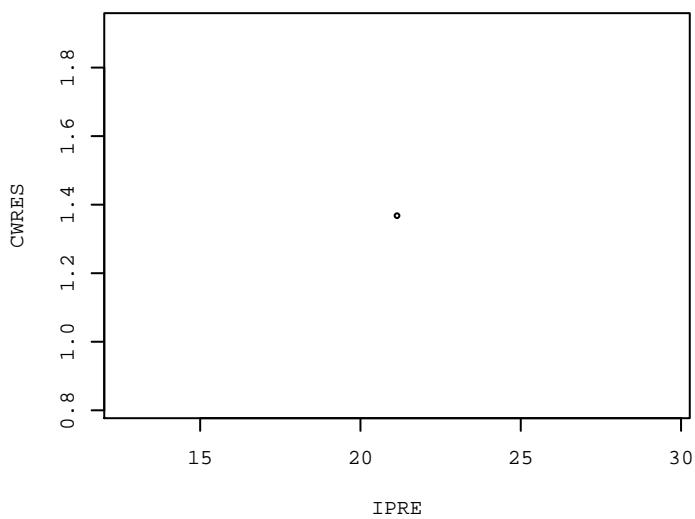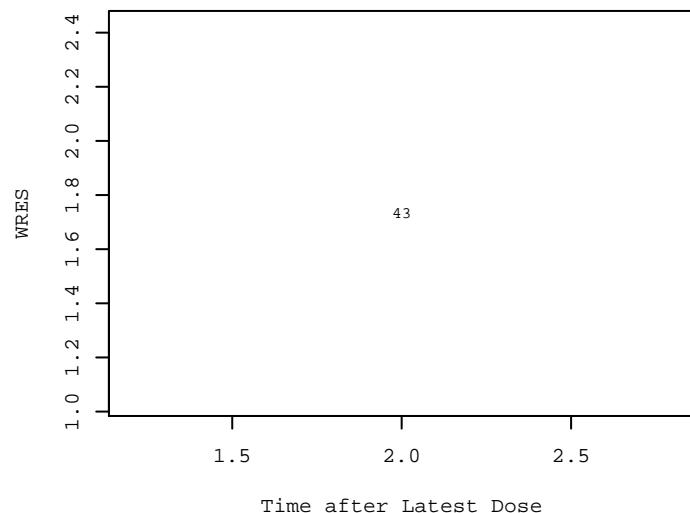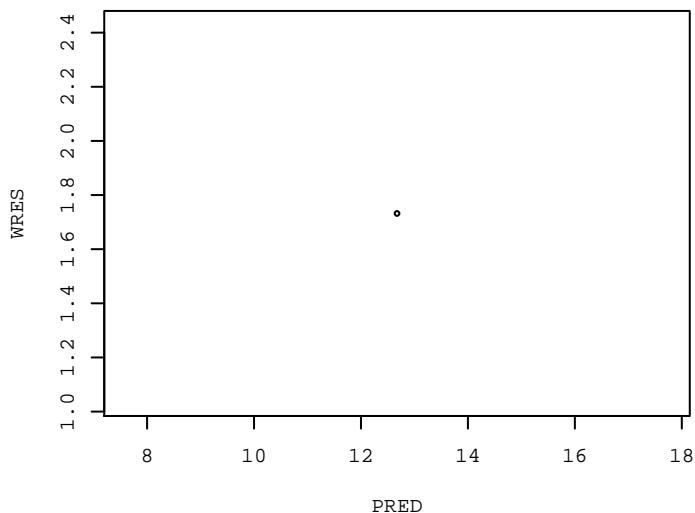
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 42
IOFV = 13.9911 , OFV per DV = 6.9956 , Run Test(CWRES) p = 0.5
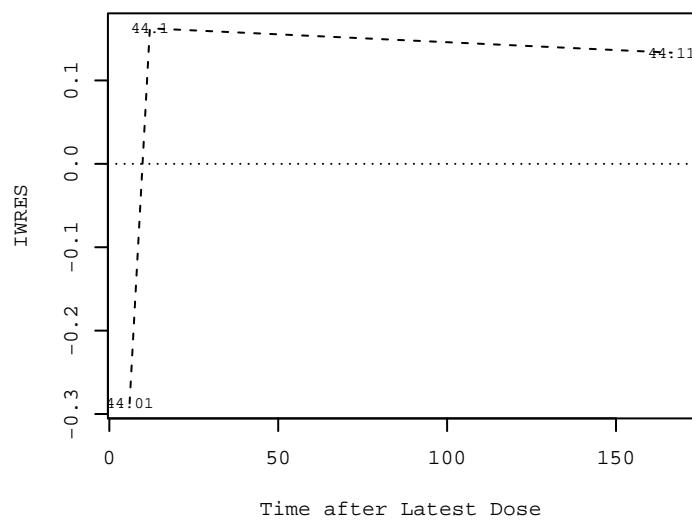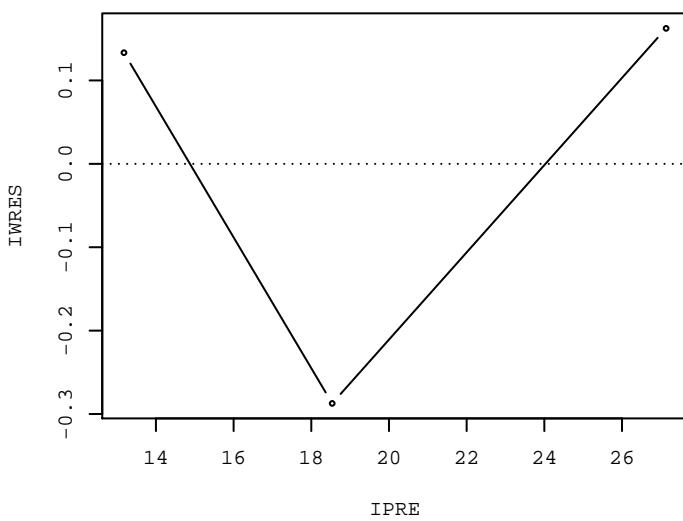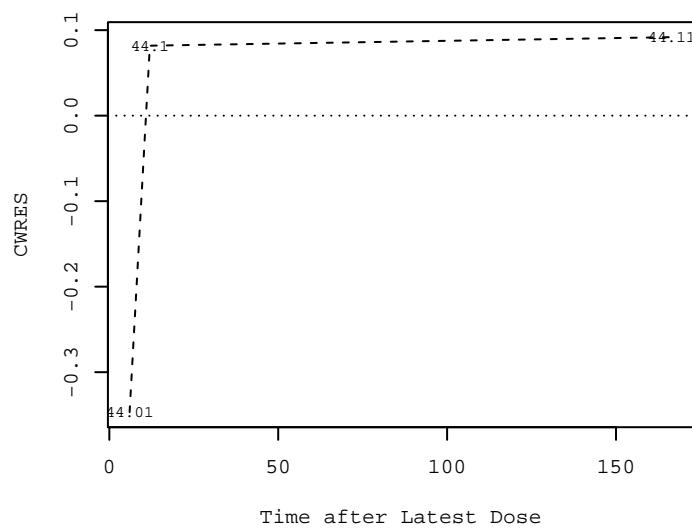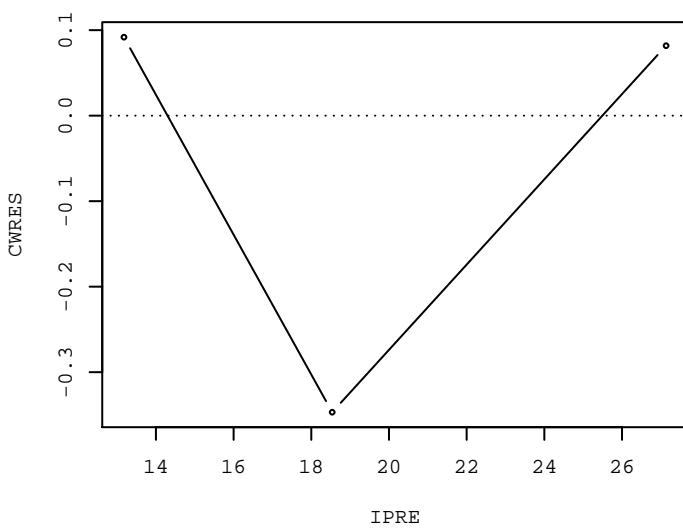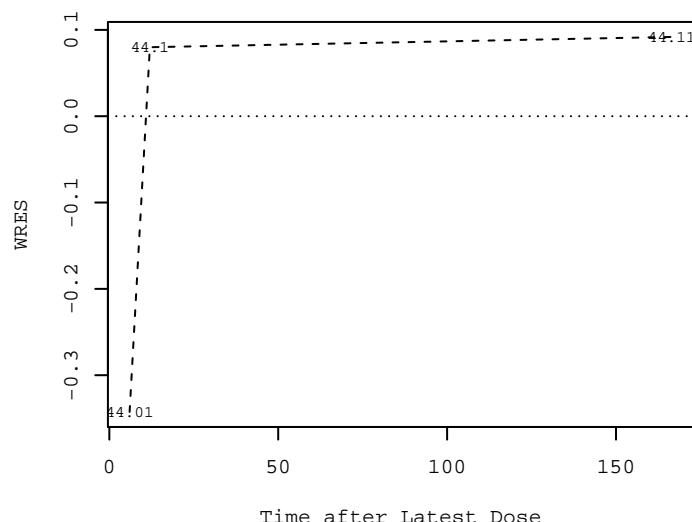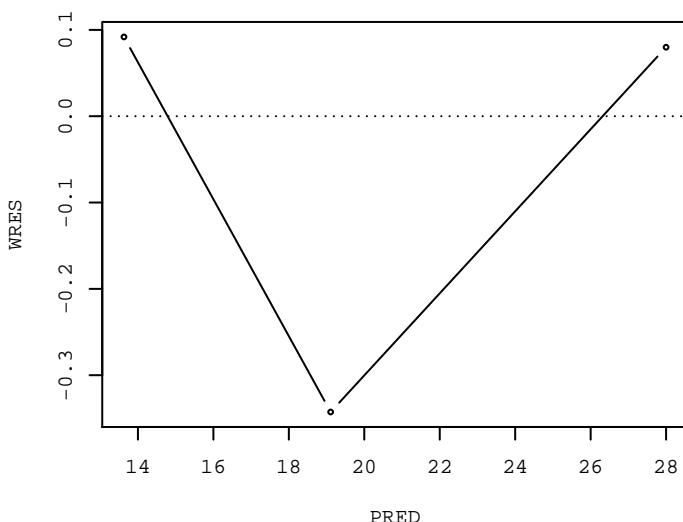

*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 43
IOFV = 6.21275 , OFV per DV = 6.2128 , Run Test(CWRES) p = 1
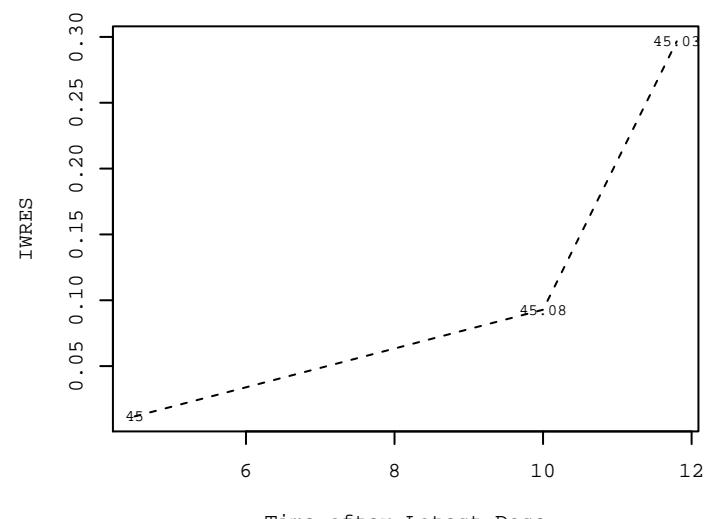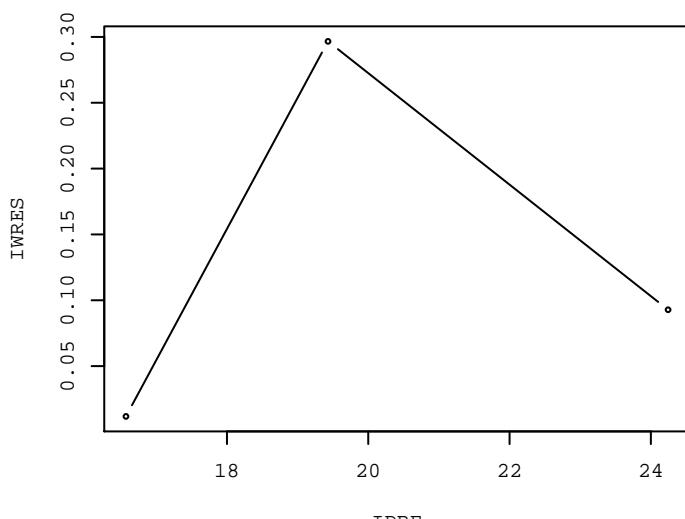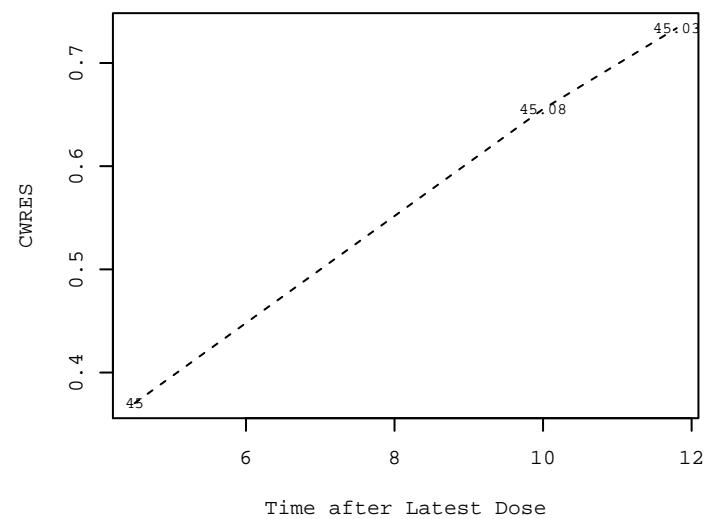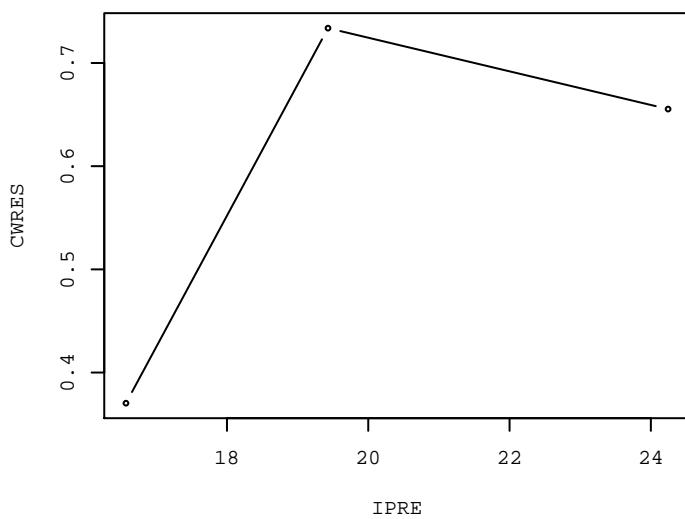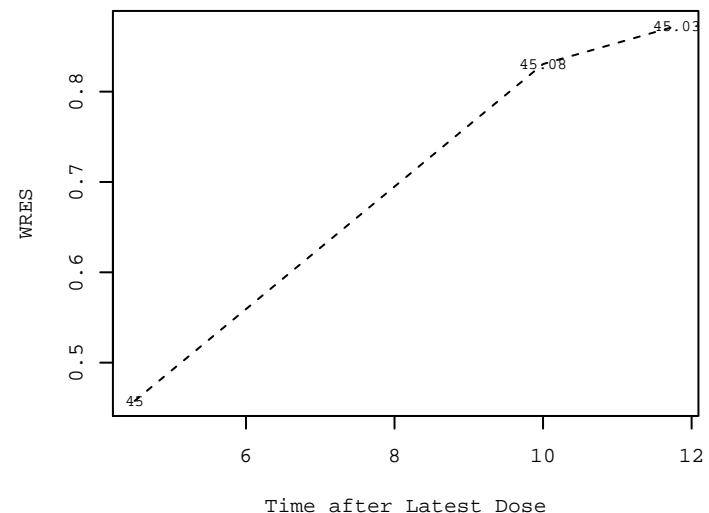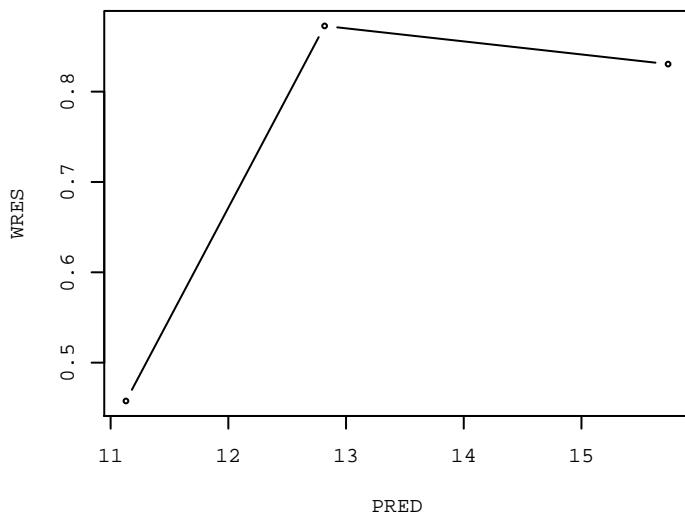
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 44
IOFV = 9.52542 , OFV per DV = 3.1751 , Run Test(CWRES) p = 1

*Fractional number means dosing occasion.
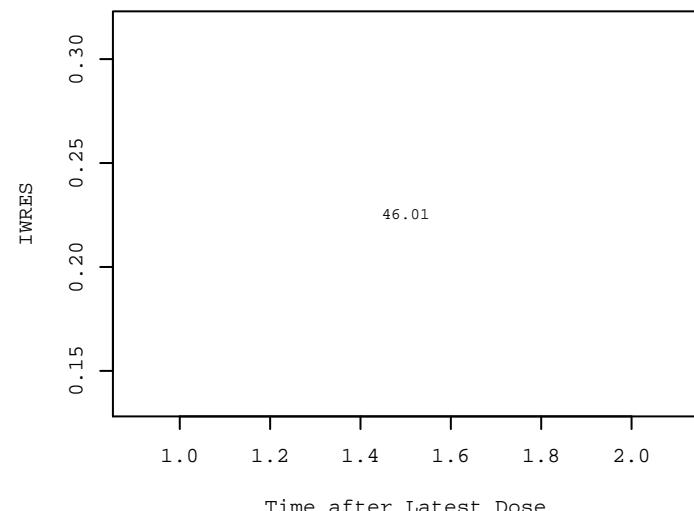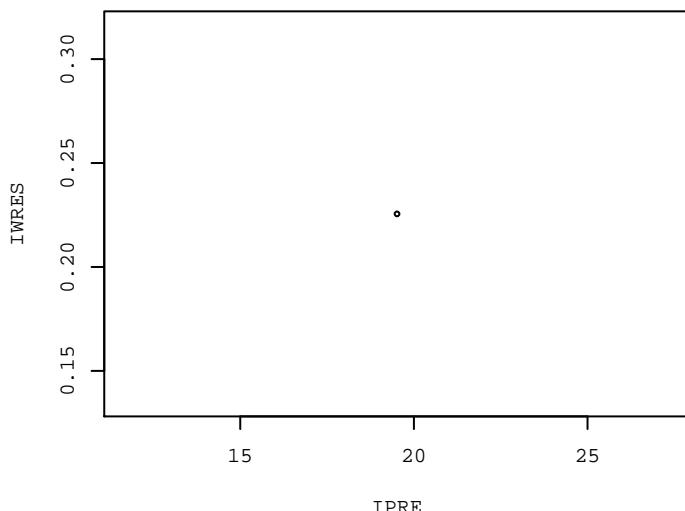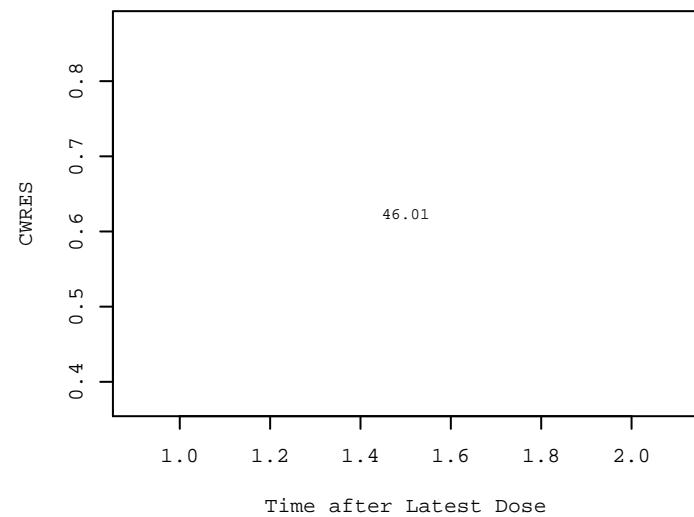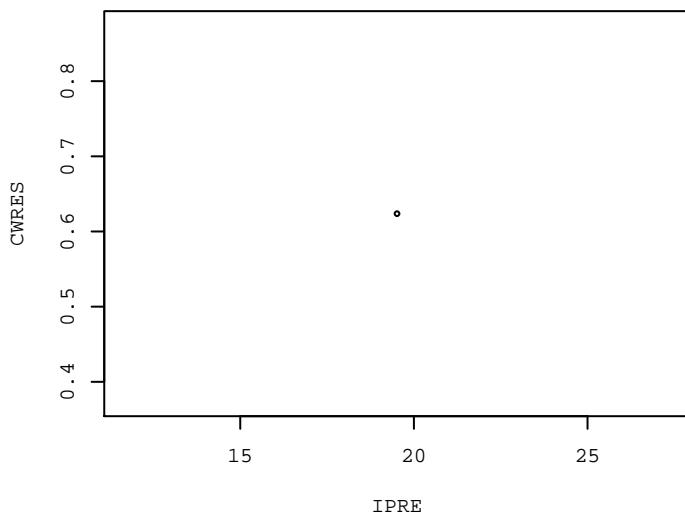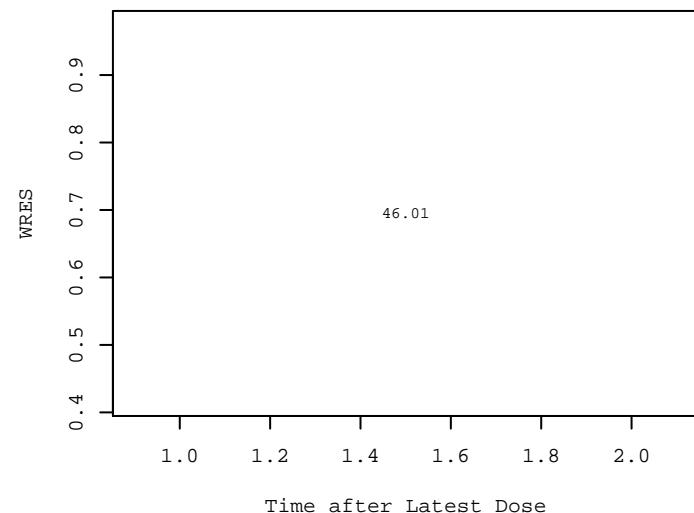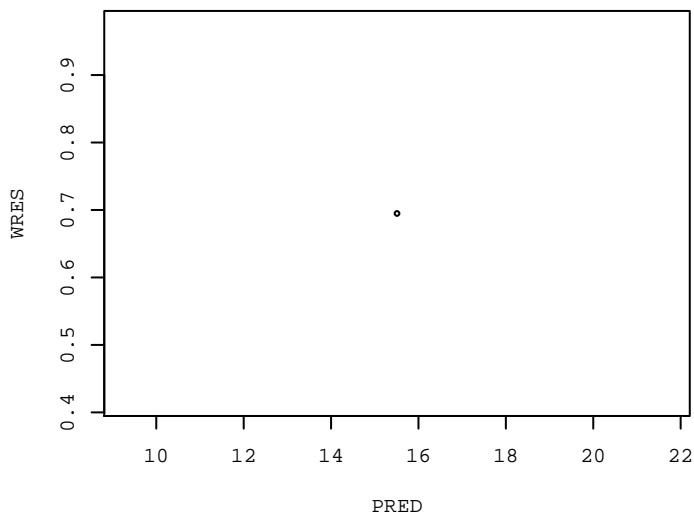
# Individiual Residual Curve, ID = 45
IOFV = 10.3479 , OFV per DV = 3.4493 , Run Test(CWRES) p = 0.25
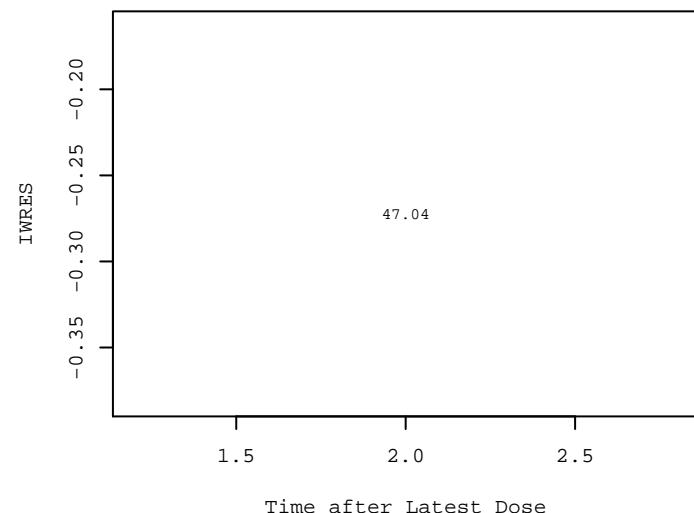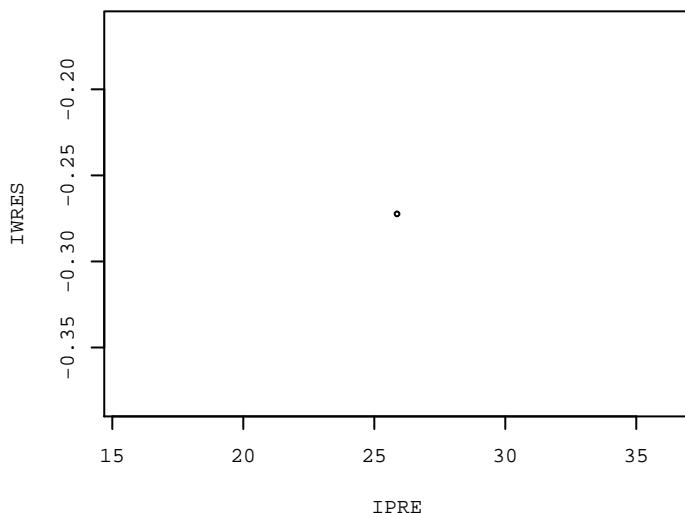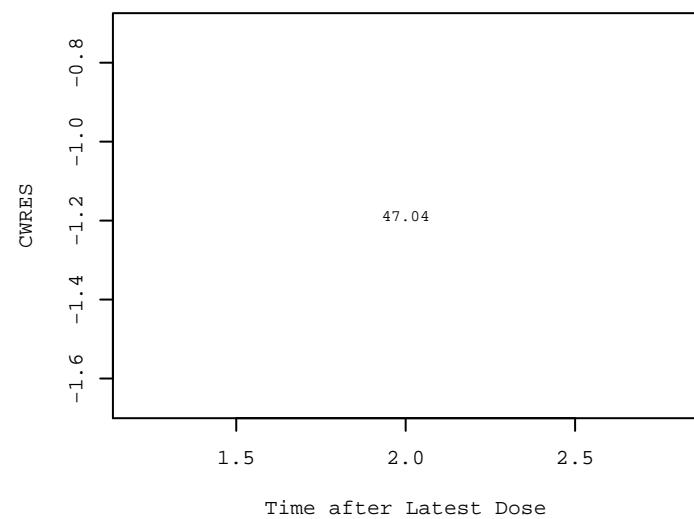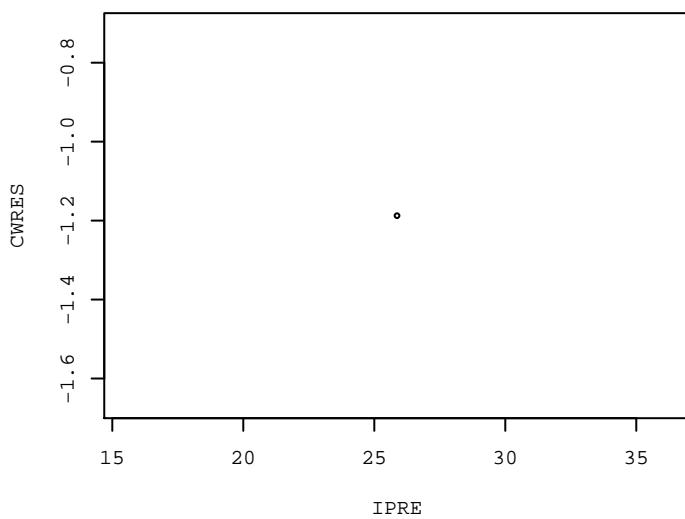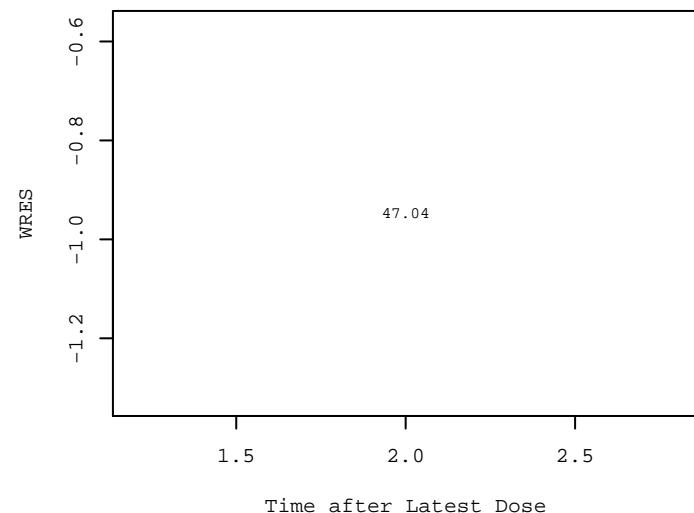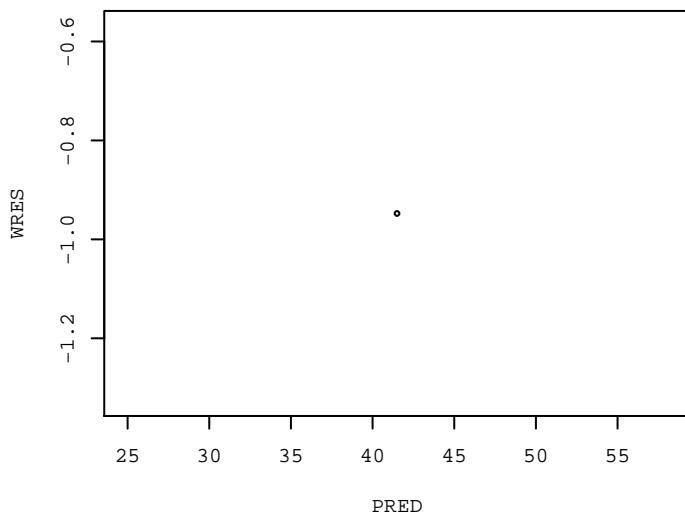

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 46
IOFV = 4.58181 , OFV per DV = 4.5818 , Run Test(CWRES) p = 1
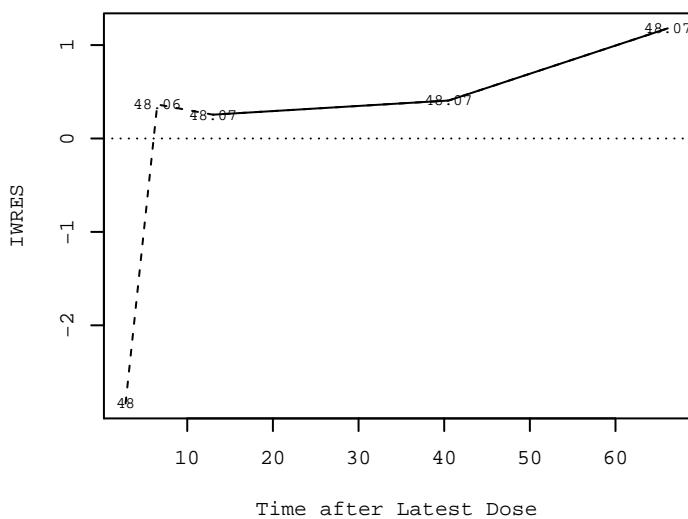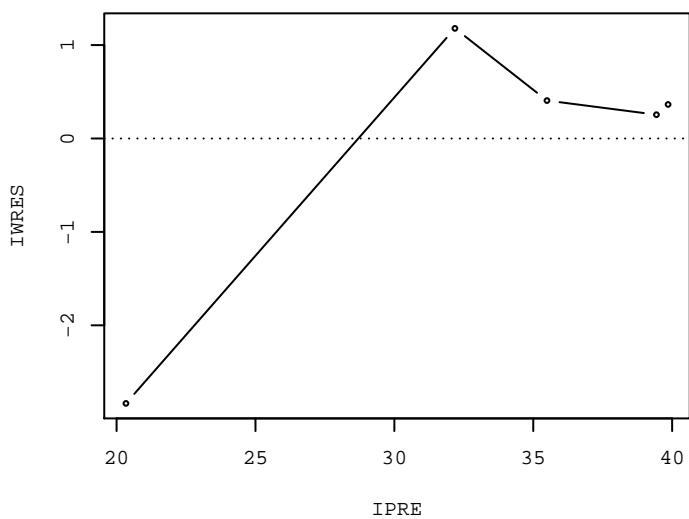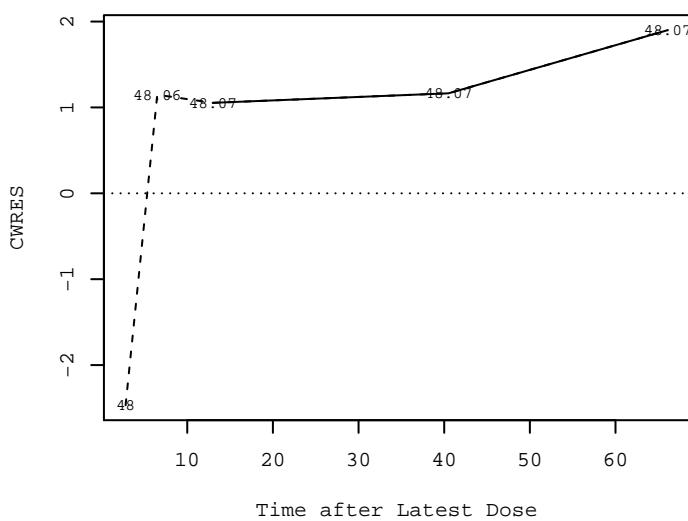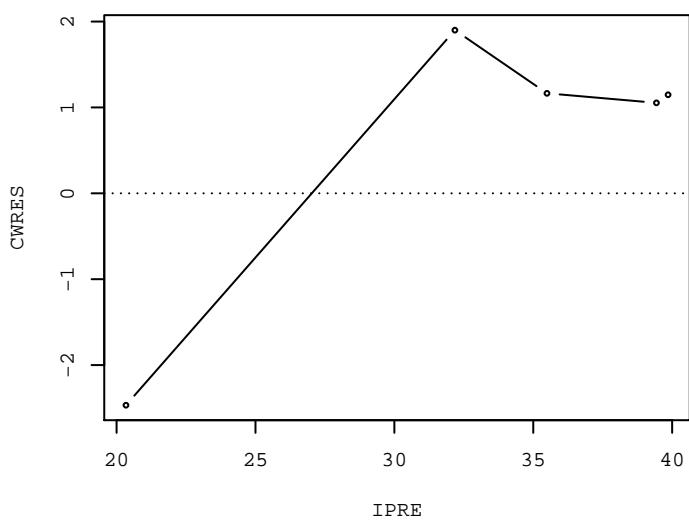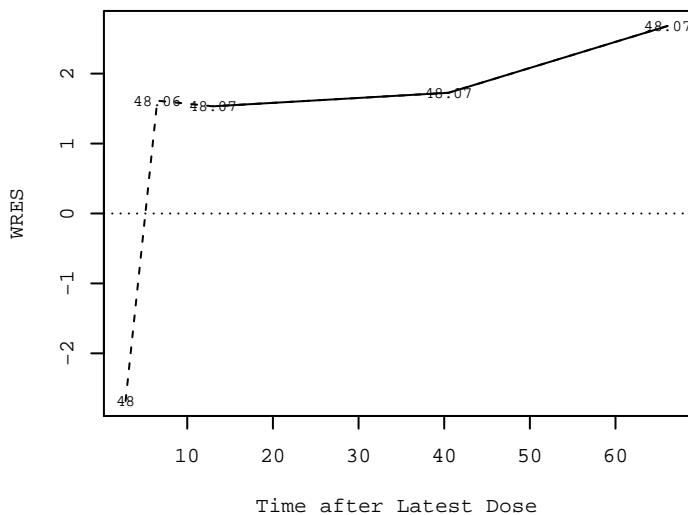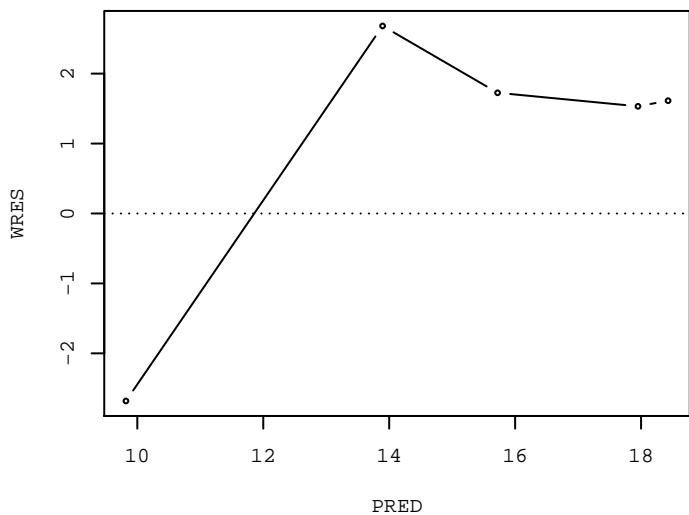
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 47
IOFV = 6.20312 , OFV per DV = 6.2031 , Run Test(CWRES) p = 1


47.04

47.04

47.04
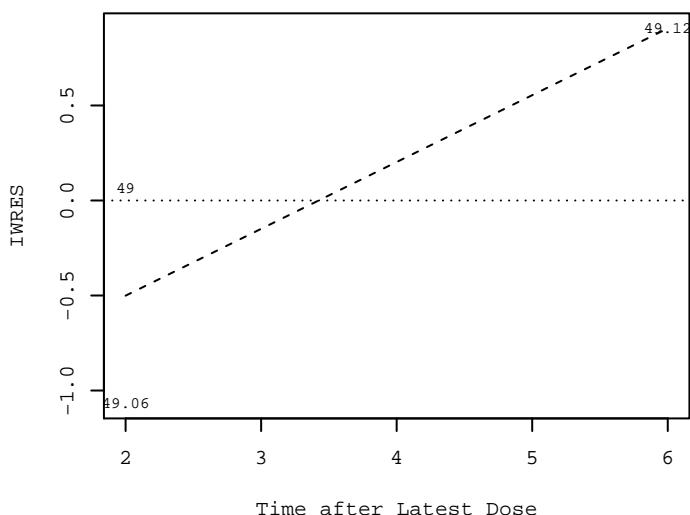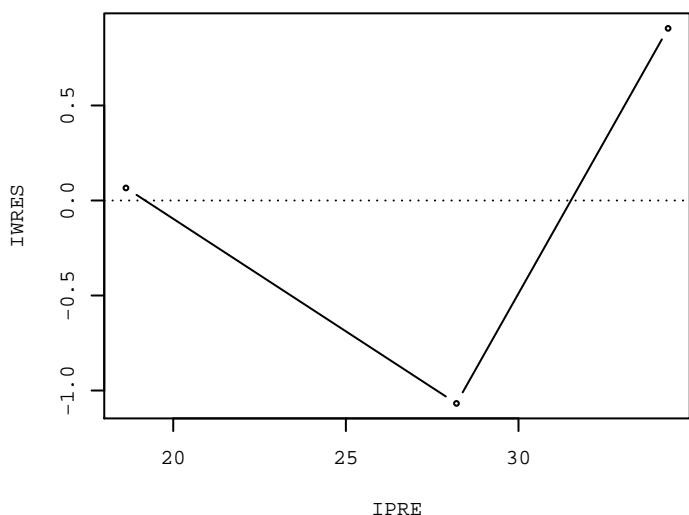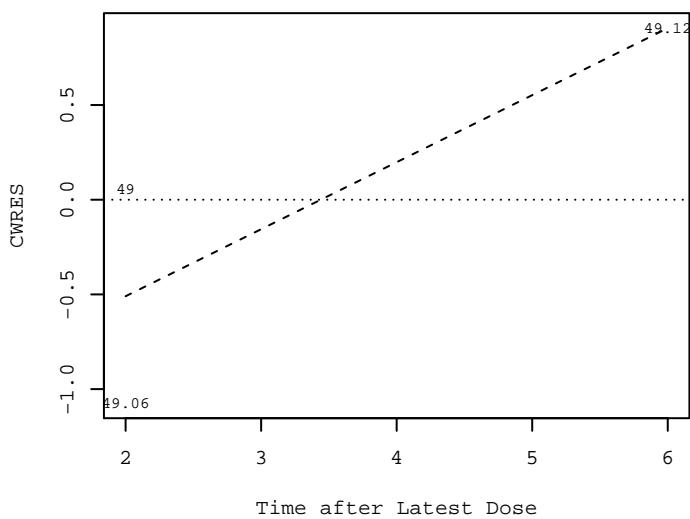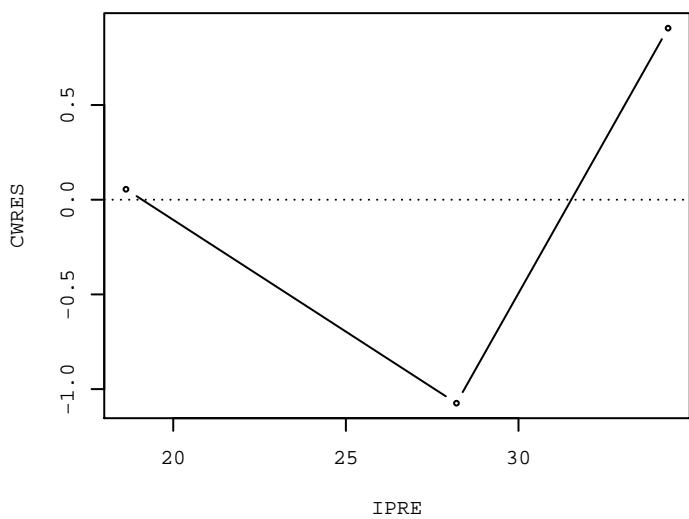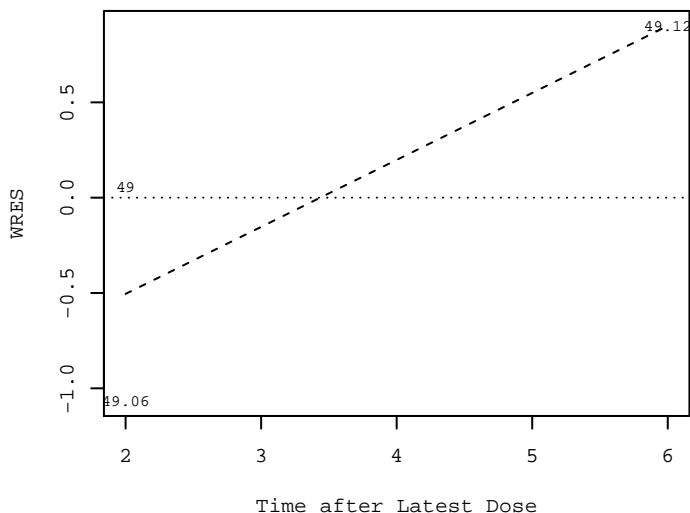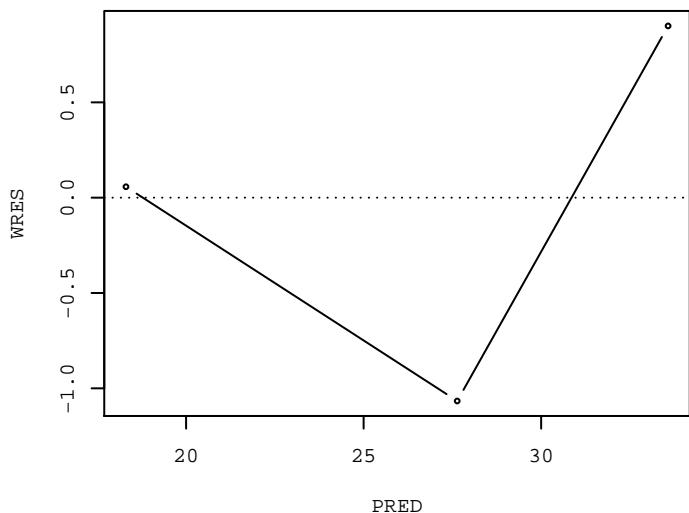
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 48
IOFV = 29.551 , OFV per DV = 5.9102 , Run Test(CWRES) p = 0.4

*Fractional number means dosing occasion.
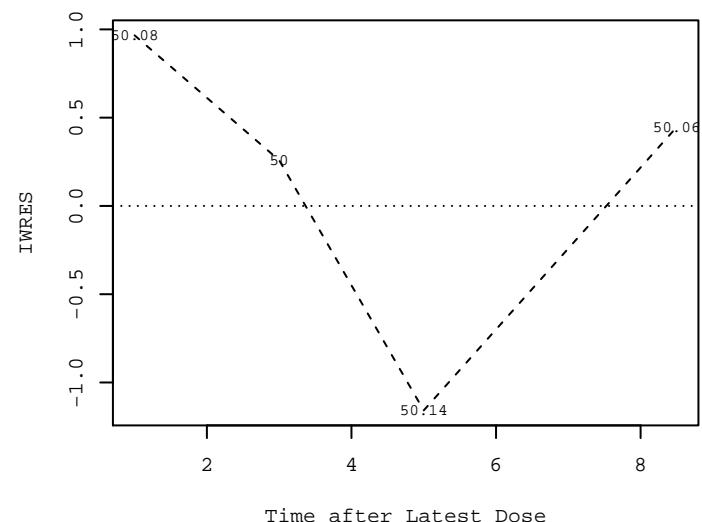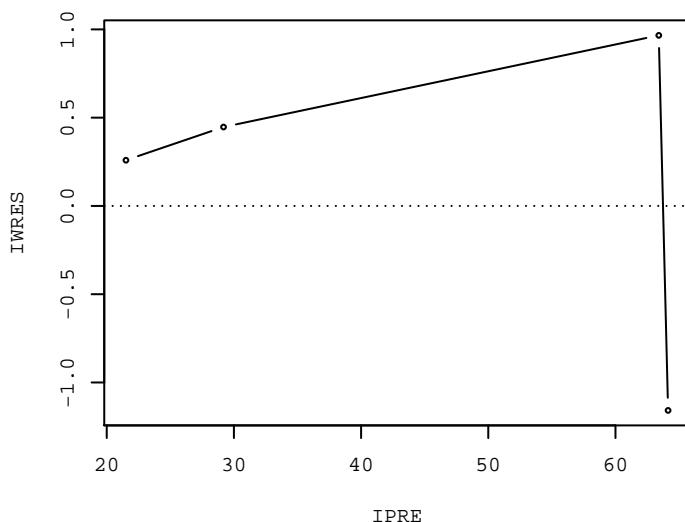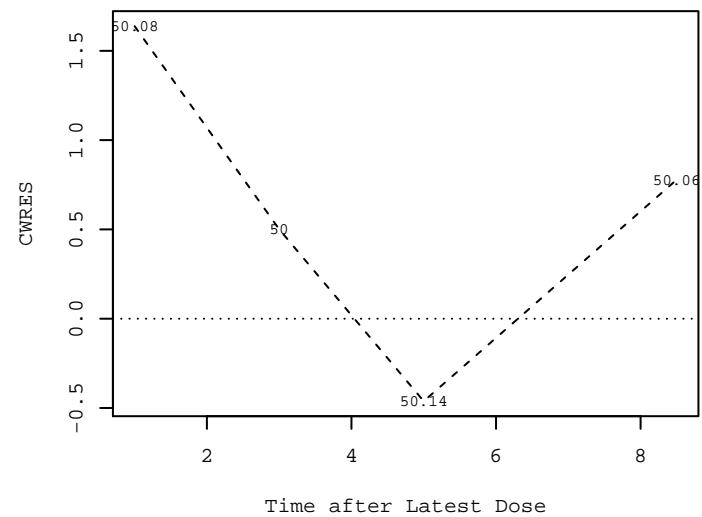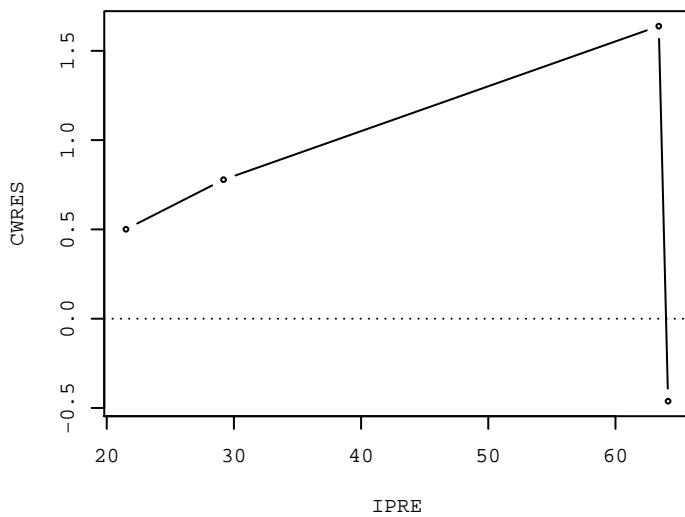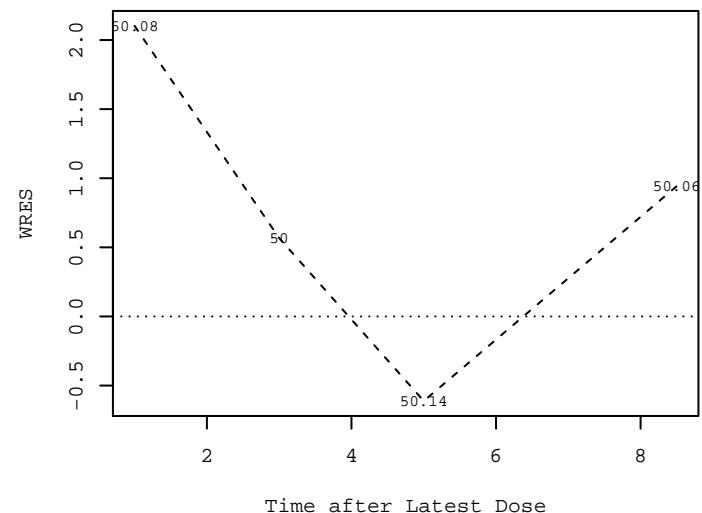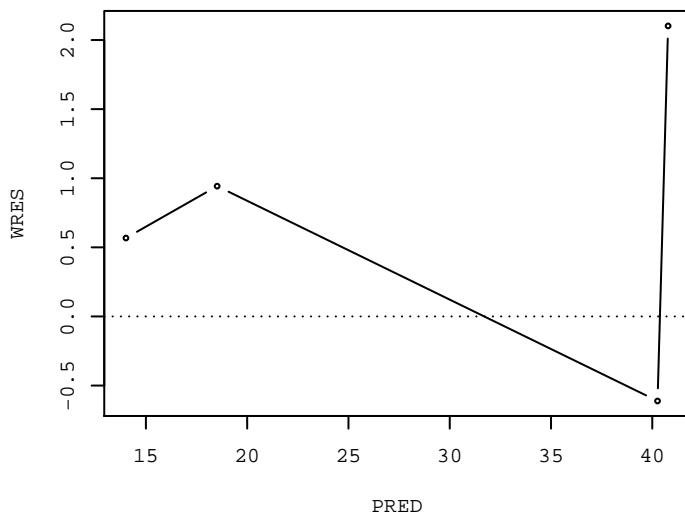
Individiual Residual Curve, ID = 49
IOFV = 12.2096 , OFV per DV = 4.0699 , Run Test(CWRES) p = 0.333
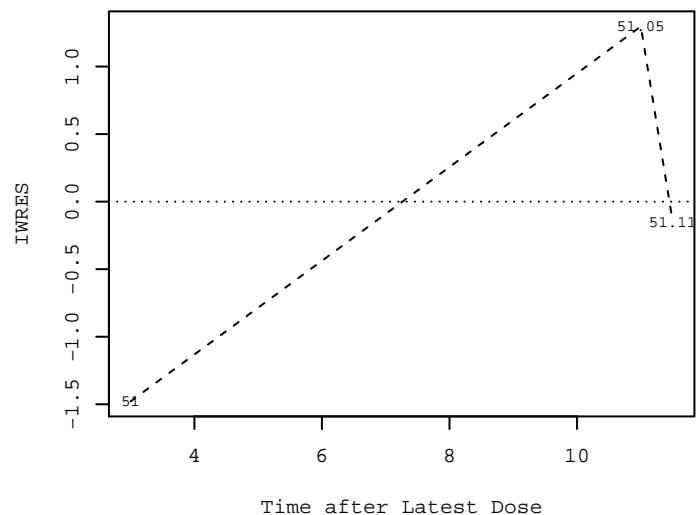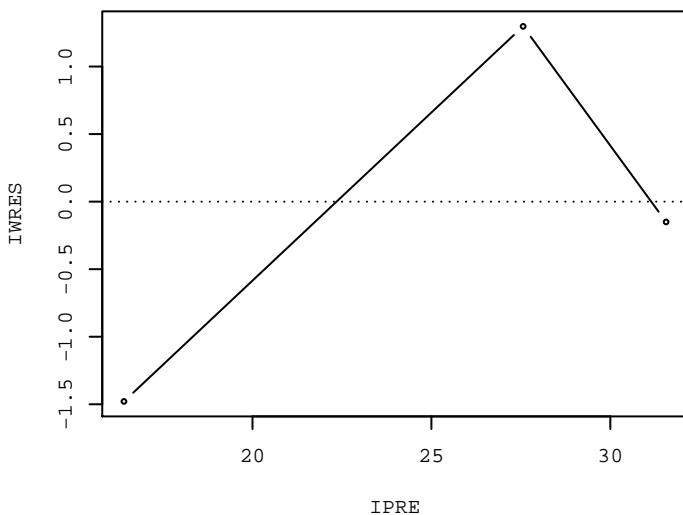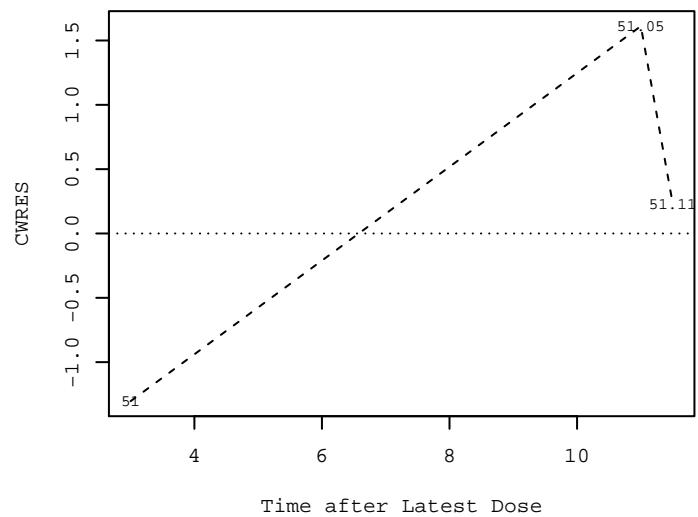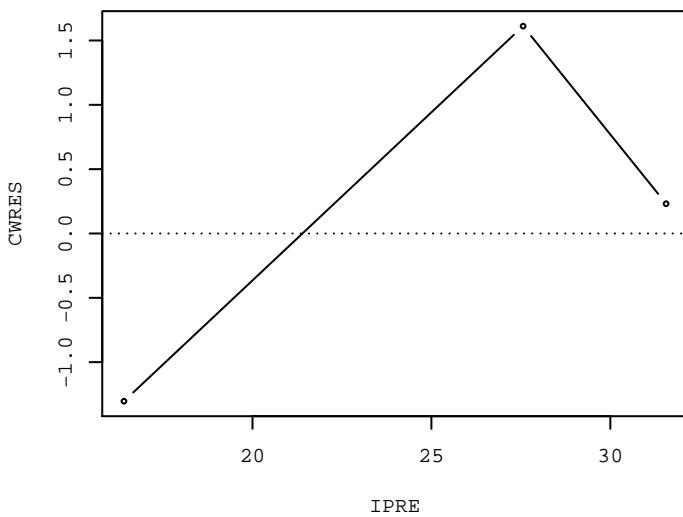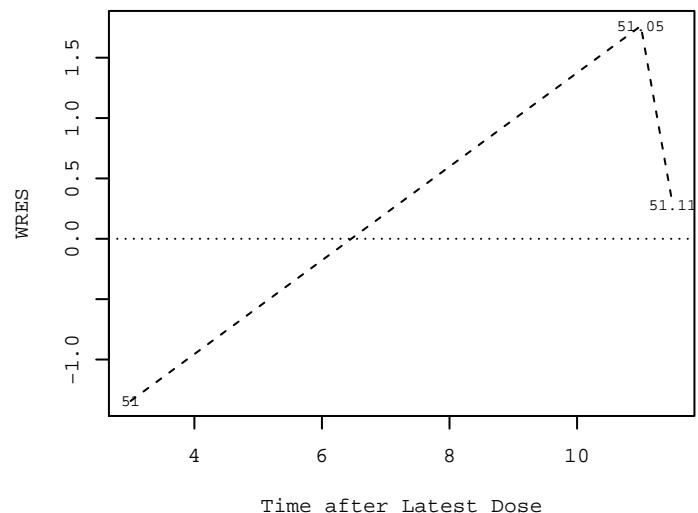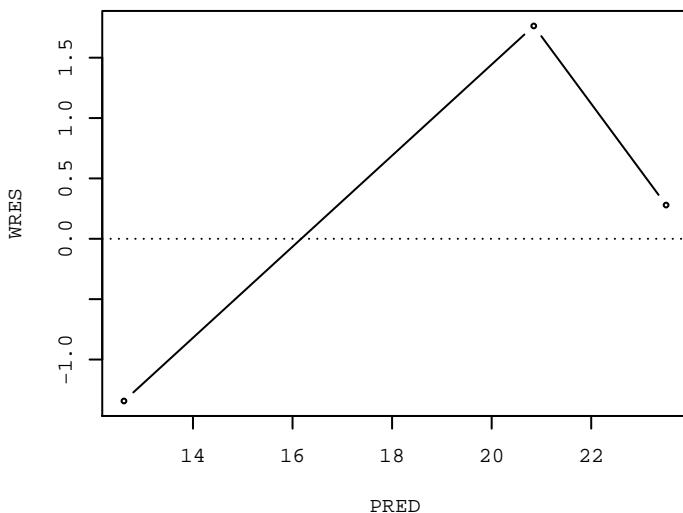

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 50
IOFV = 18.6268 , OFV per DV = 4.6567 , Run Test(CWRES) p = 0.5
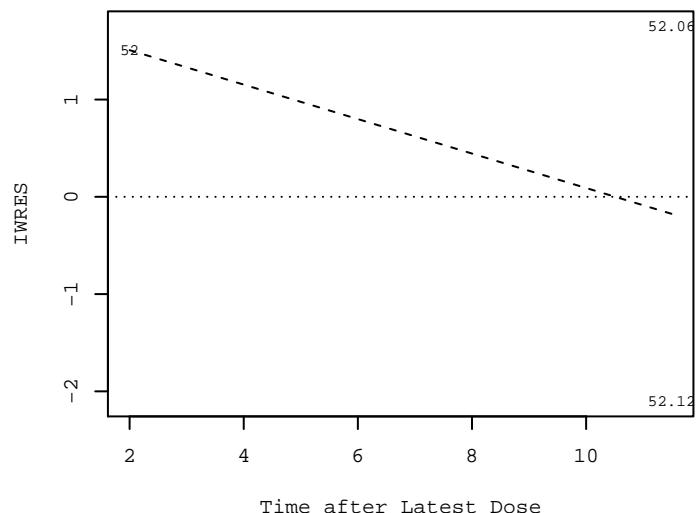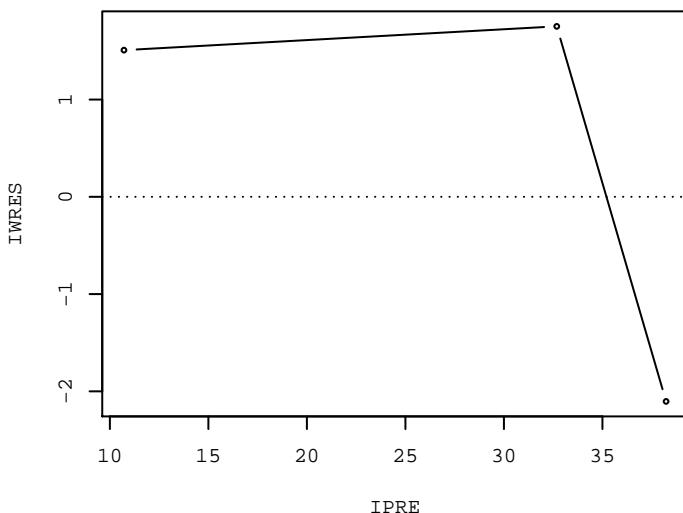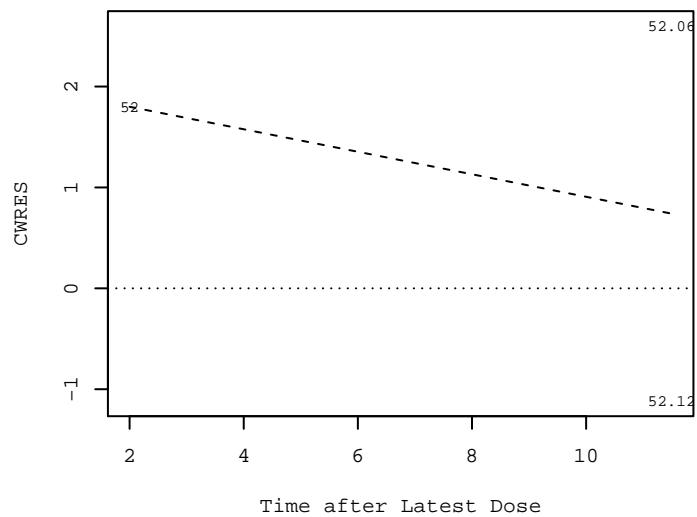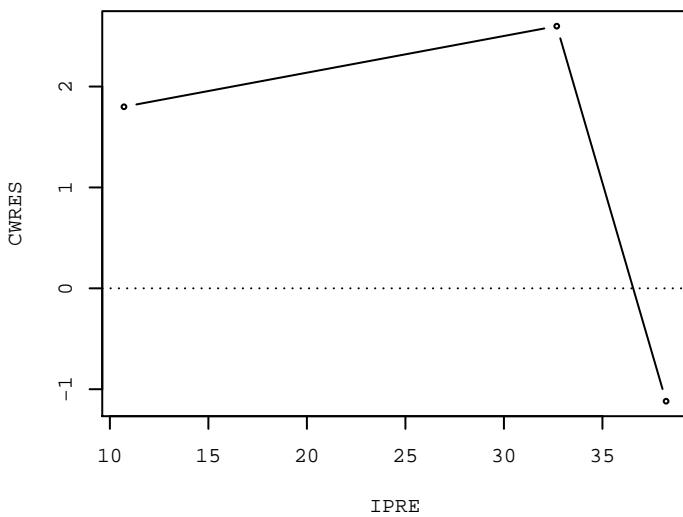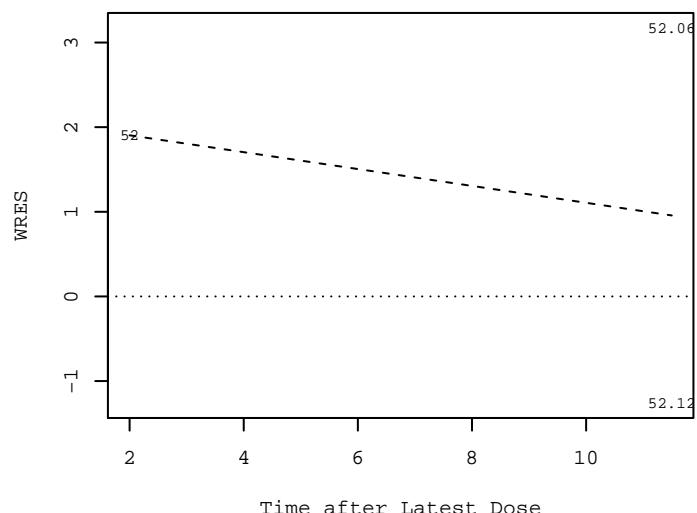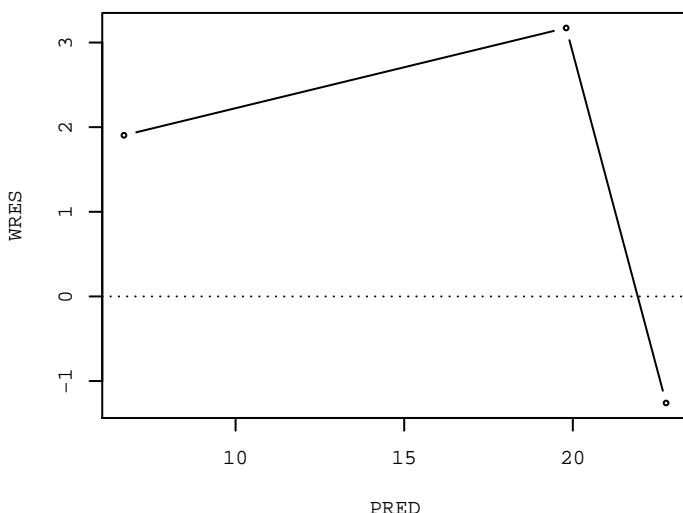
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 51
## IOFV = 14.3393 , OFV per DV = 4.7798 , Run Test(CWRES) p = 1
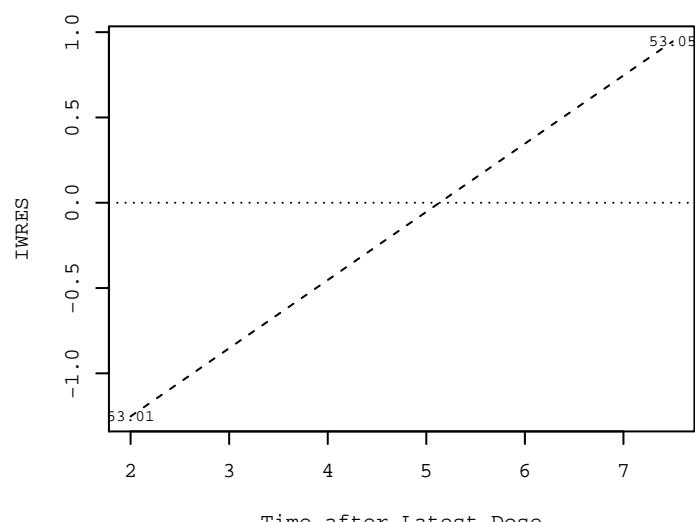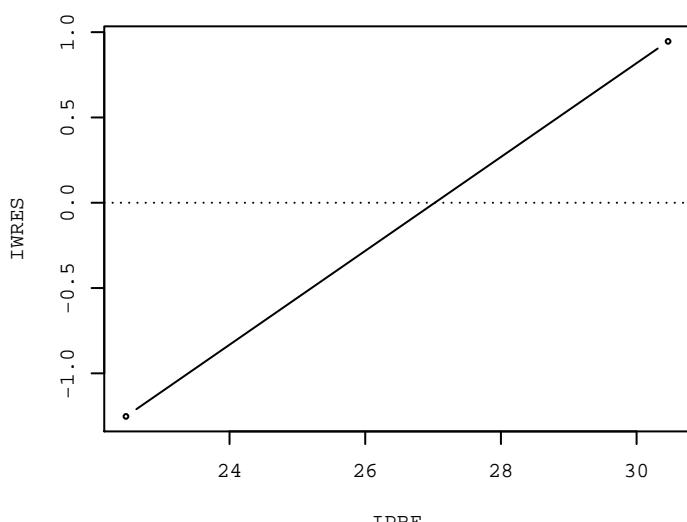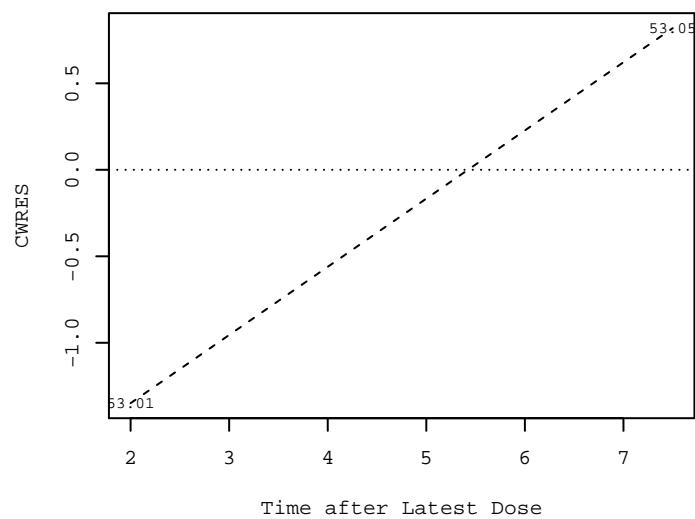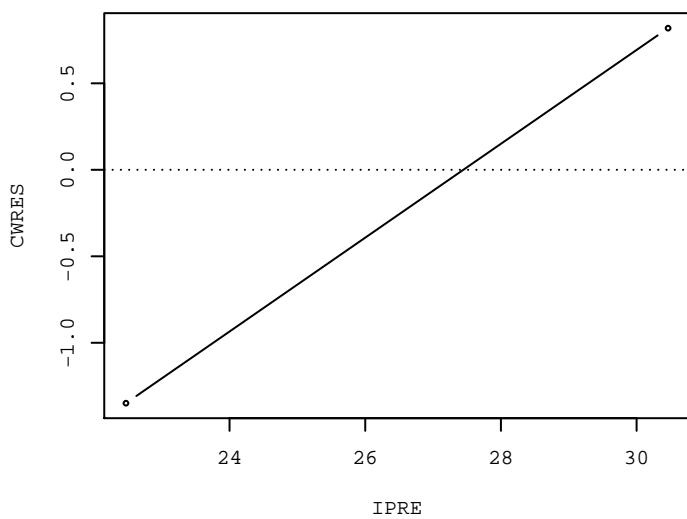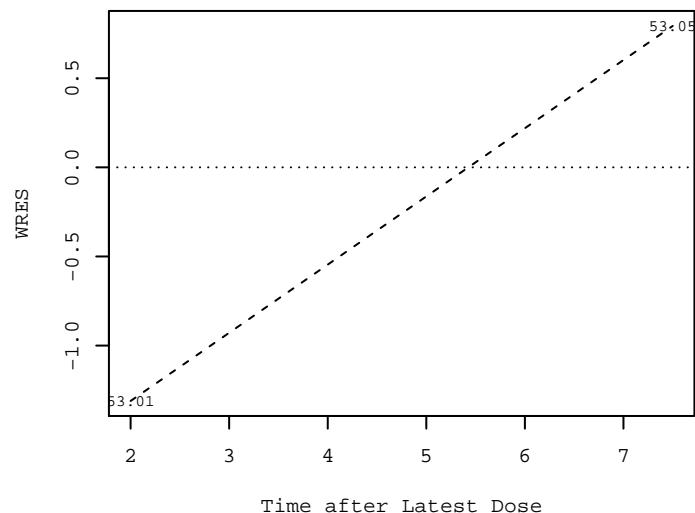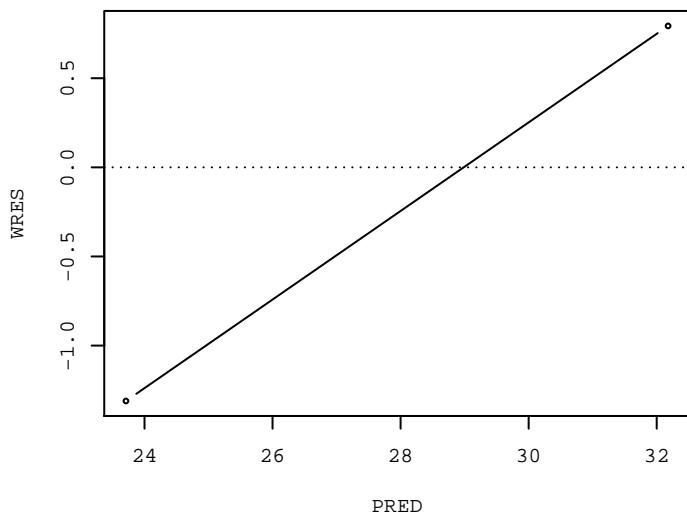
*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 52
IOFV = 21.5992 , OFV per DV = 7.1997 , Run Test(CWRES) p = 1
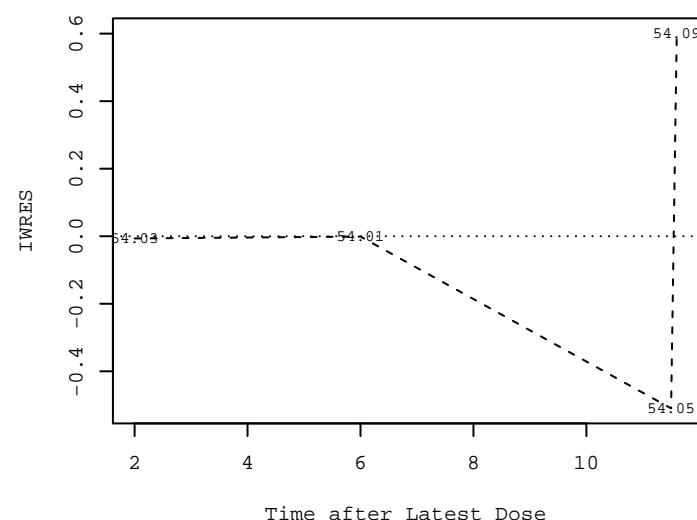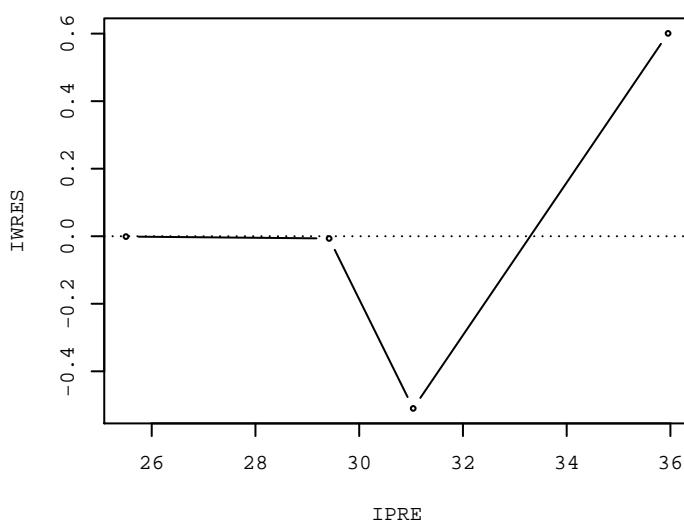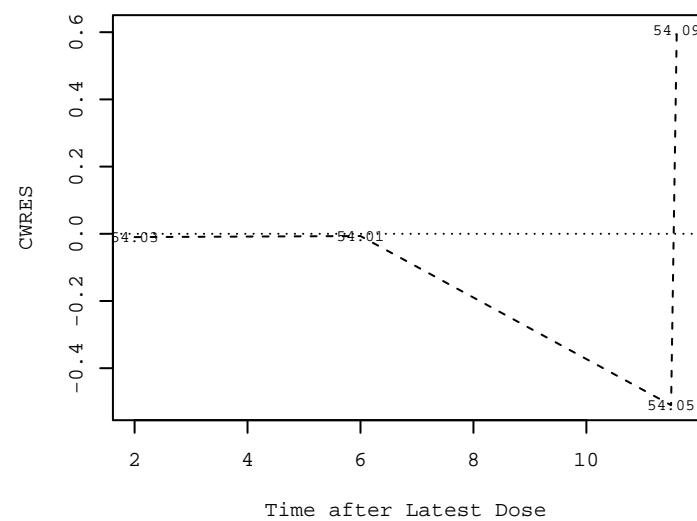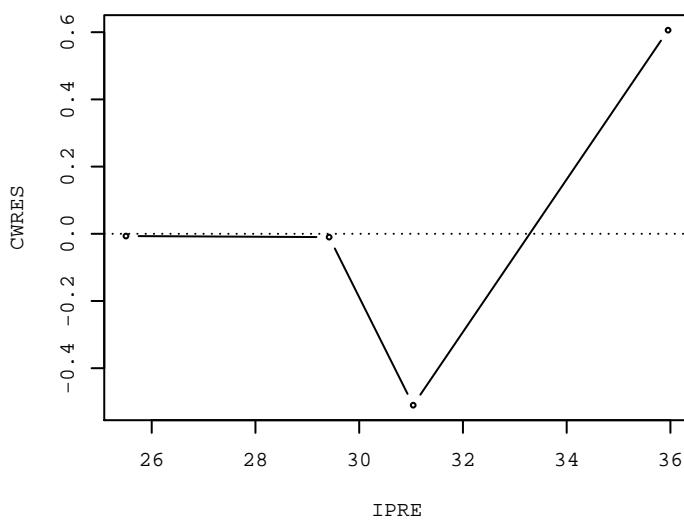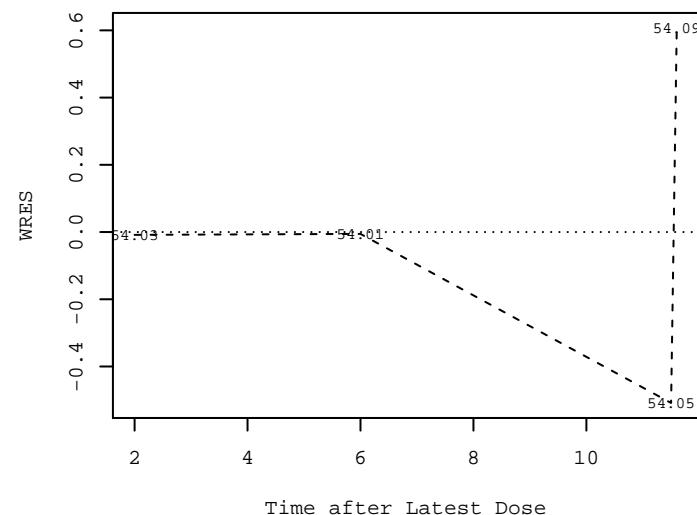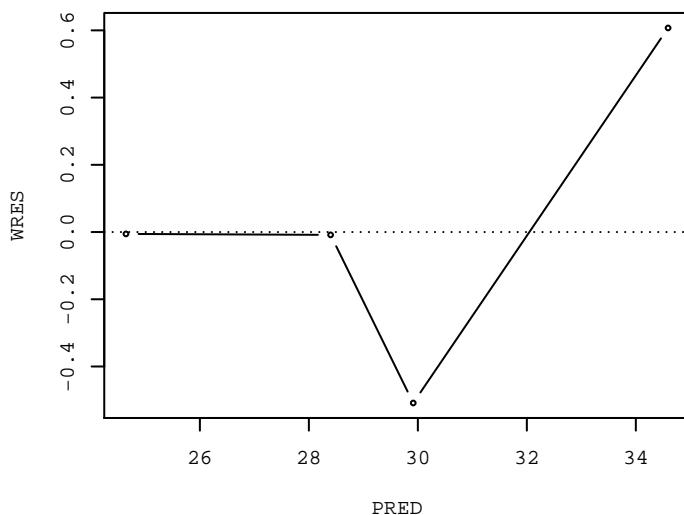

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 53
IOFV = 10.0556 , OFV per DV = 5.0278 , Run Test(CWRES) p = 1
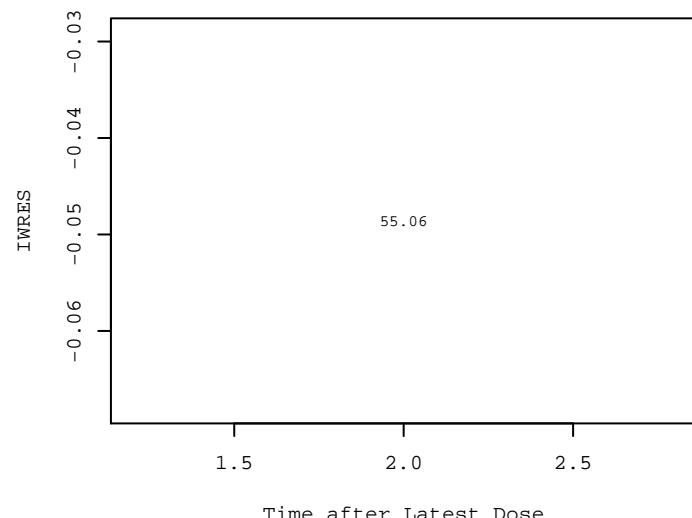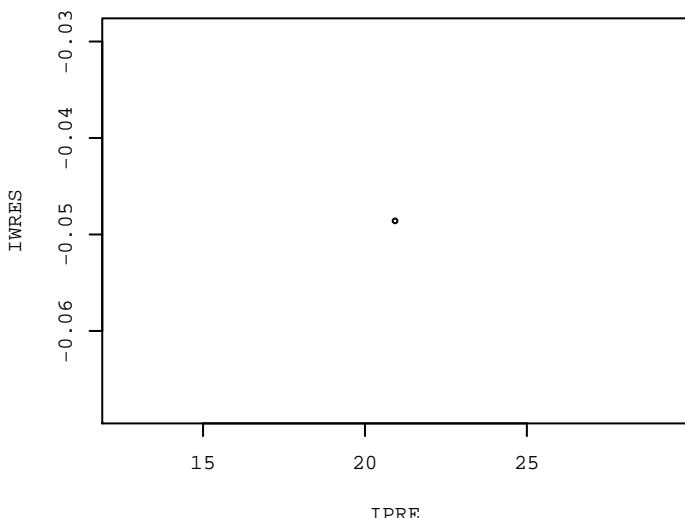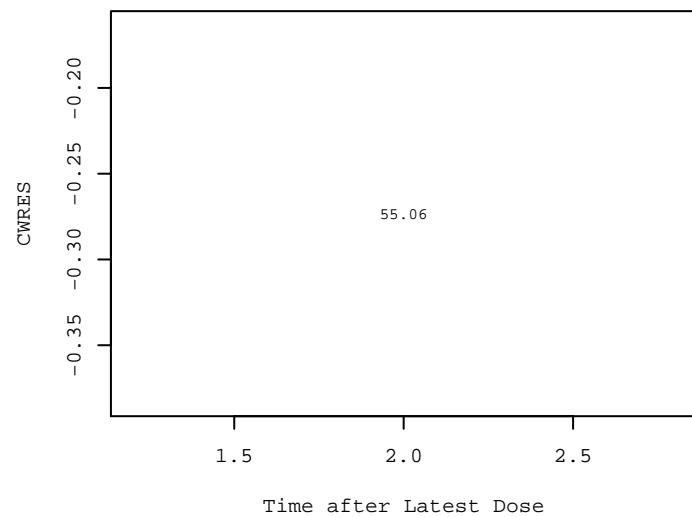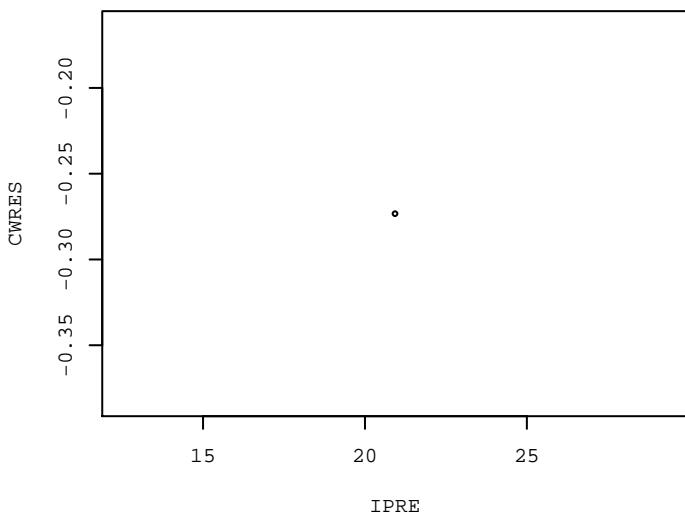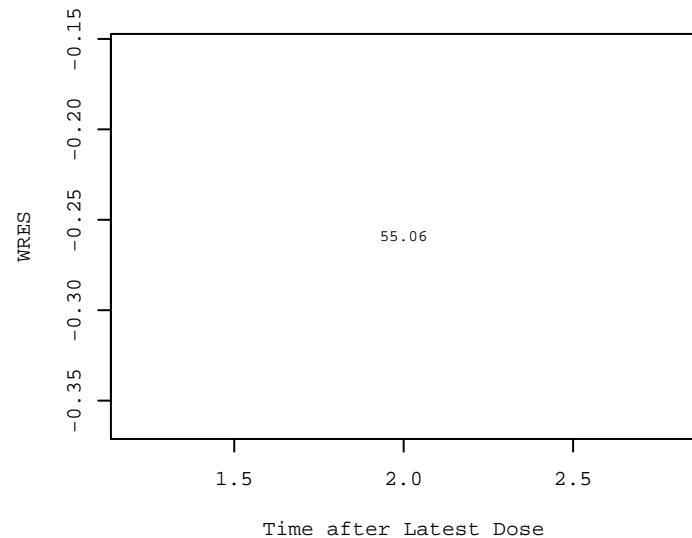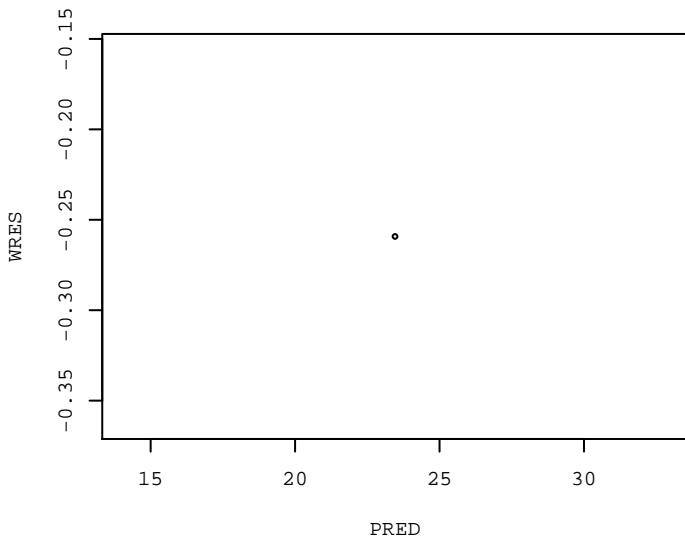

*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 54
IOFV = 13.7268 , OFV per DV = 3.4317 , Run Test(CWRES) p = 0.5

*Fractional number means dosing occasion.
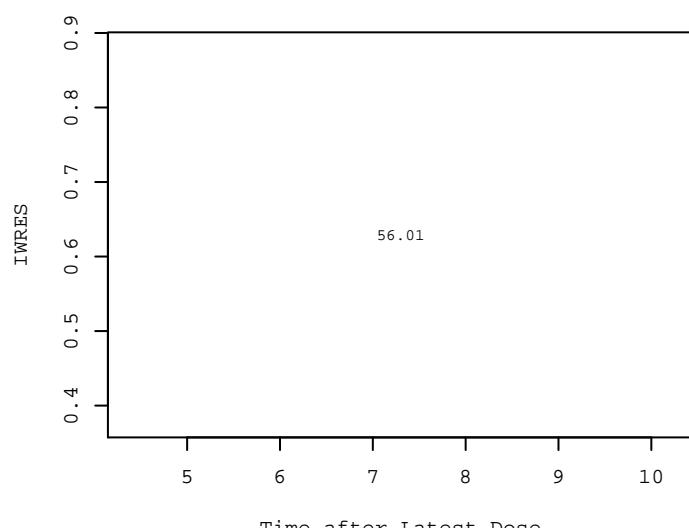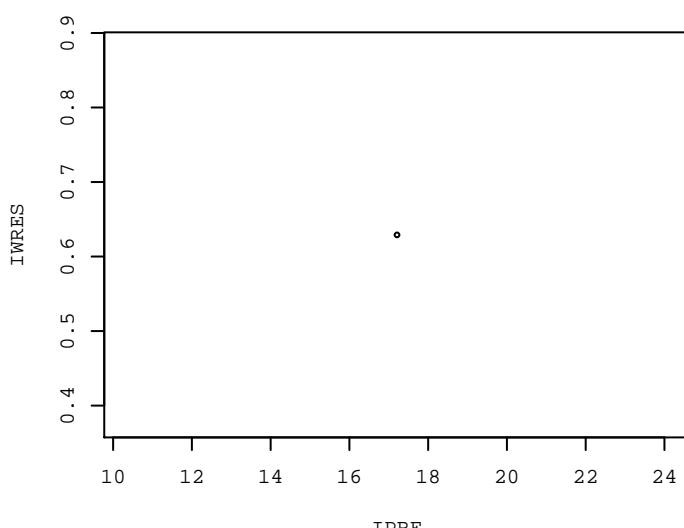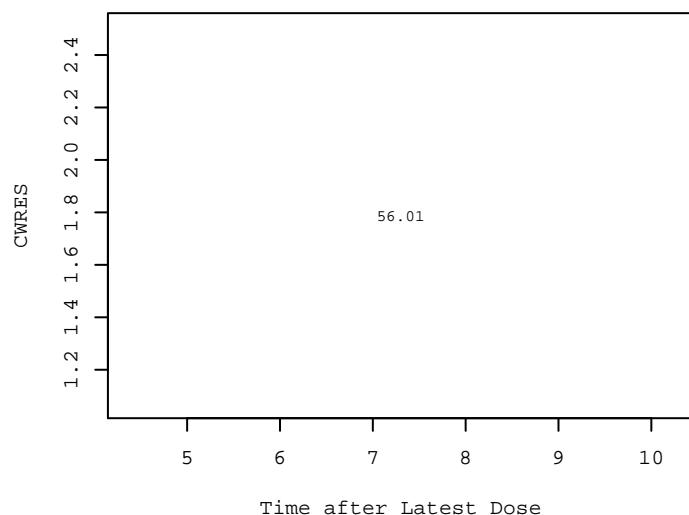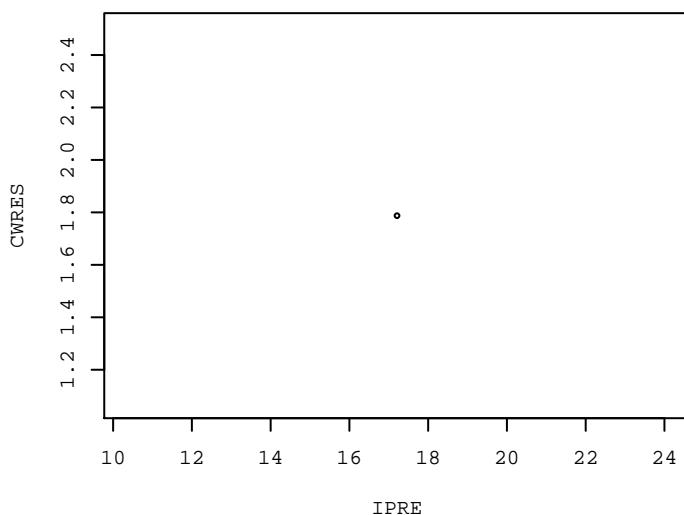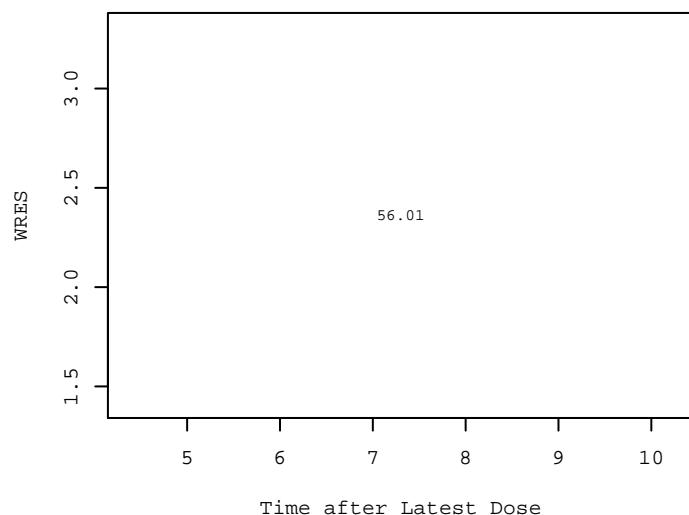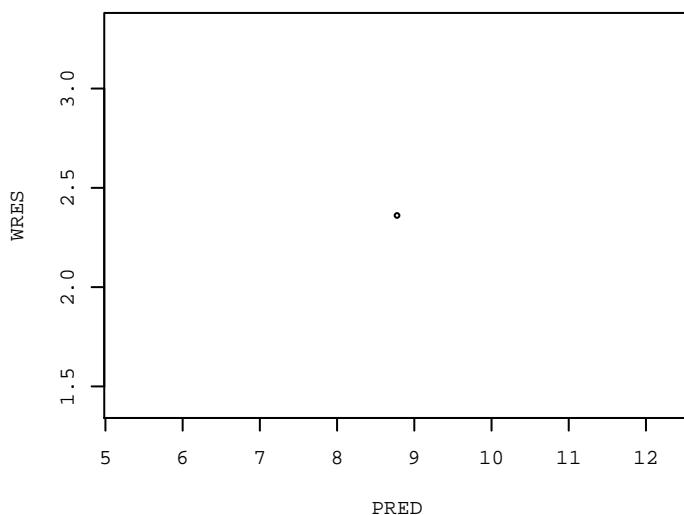
# Individiual Residual Curve, ID = 55
IOFV = 4.52009 , OFV per DV = 4.5201 , Run Test(CWRES) p = 1

55.06

55.06

55.06
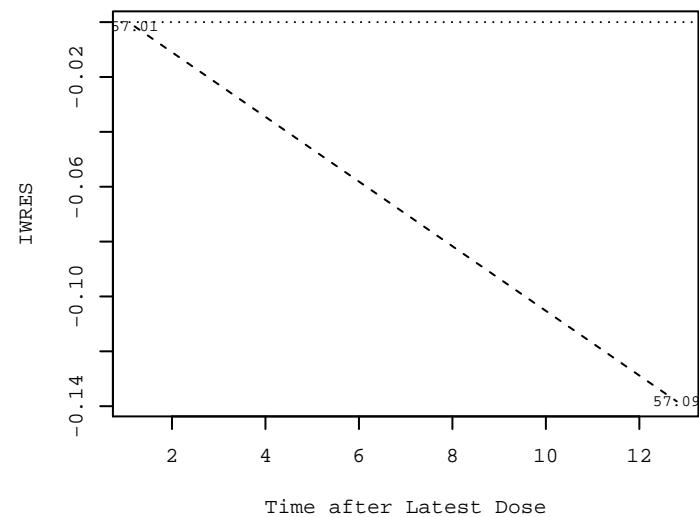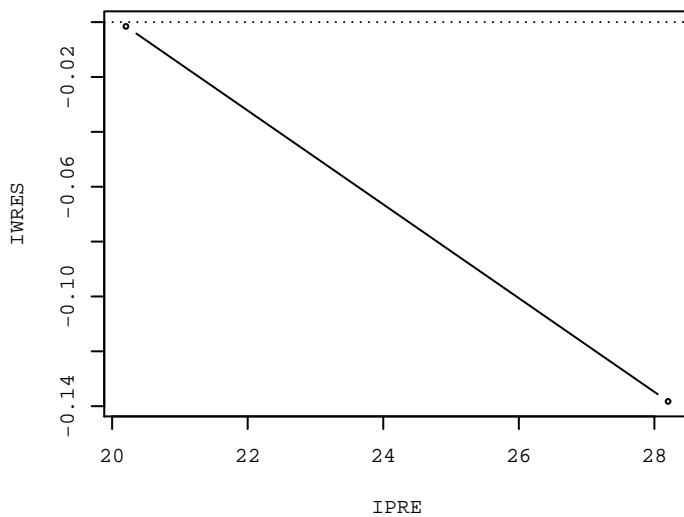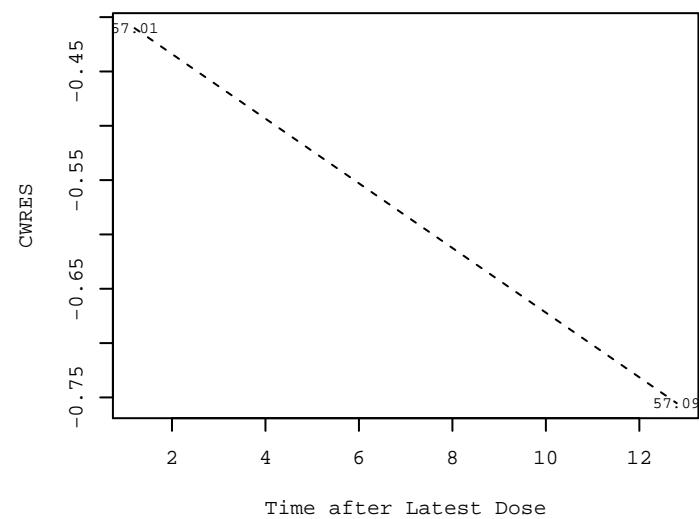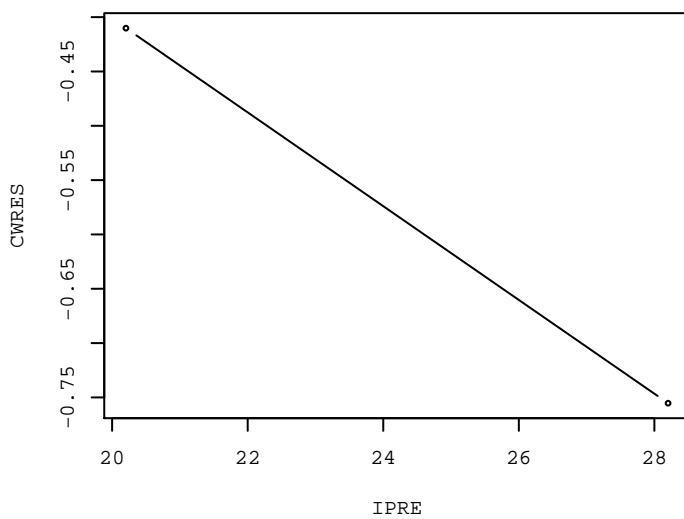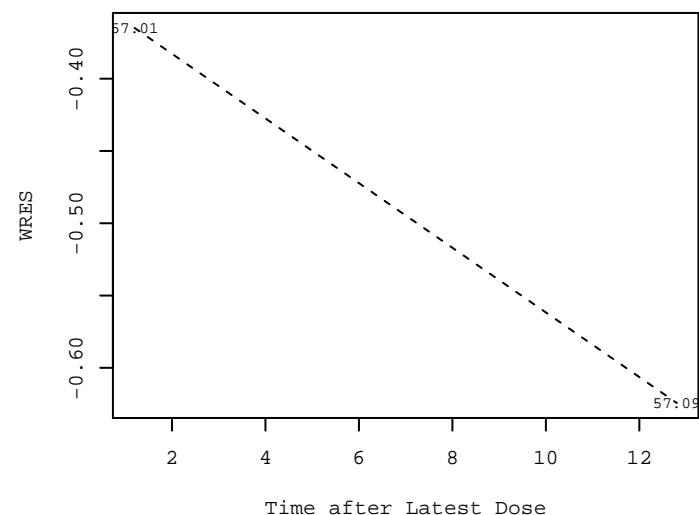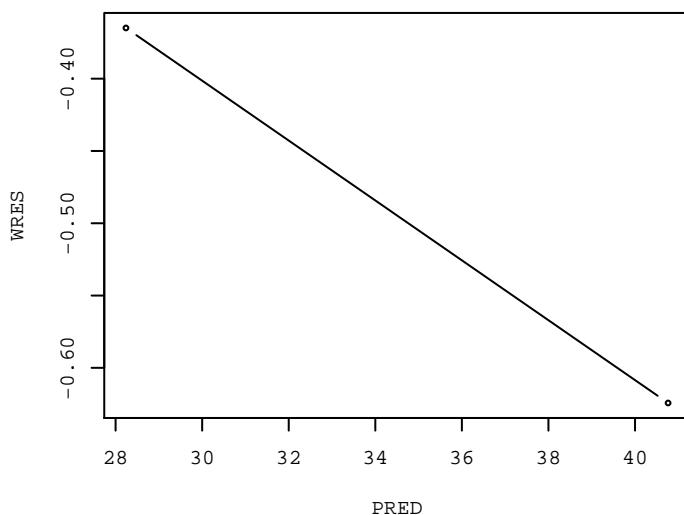
*Fractional number means dosing occasion.

Individiual Residual Curve, ID = 56
## IOFV = 7.18925 , OFV per DV = 7.1893 , Run Test(CWRES) p = 1
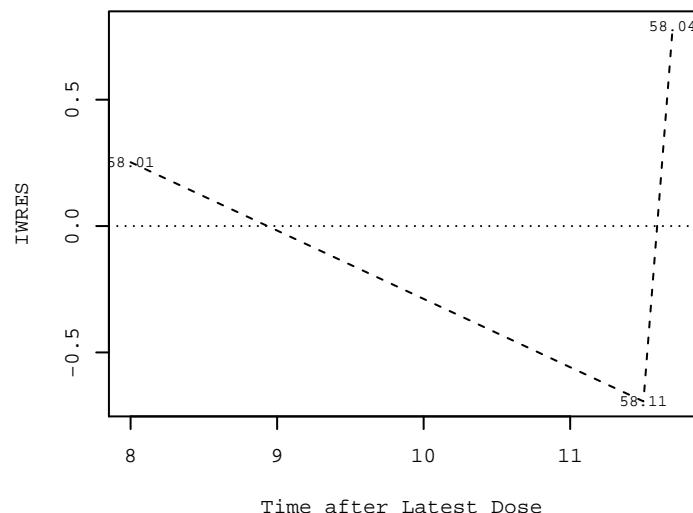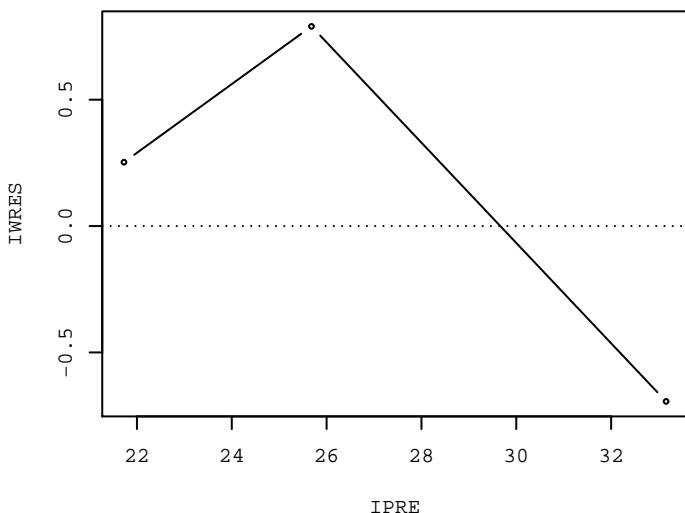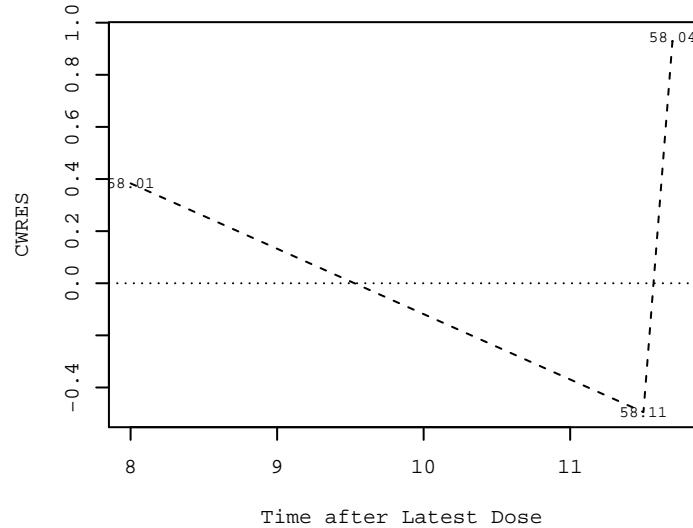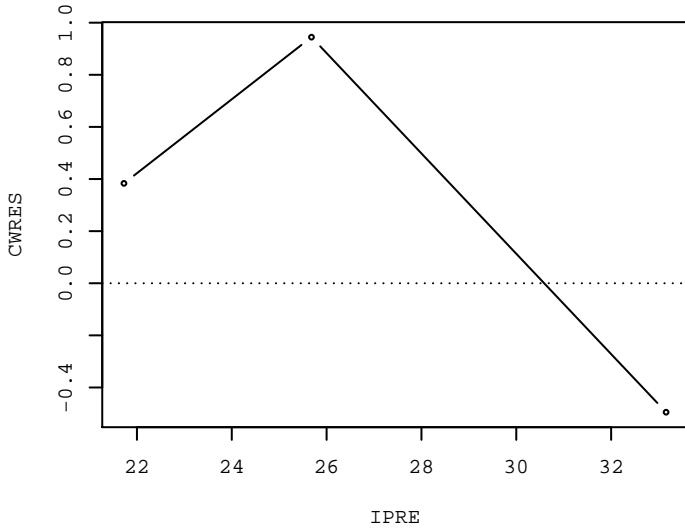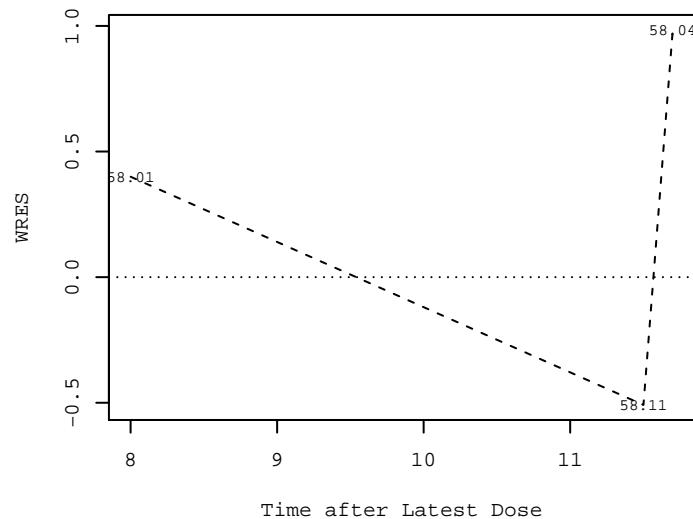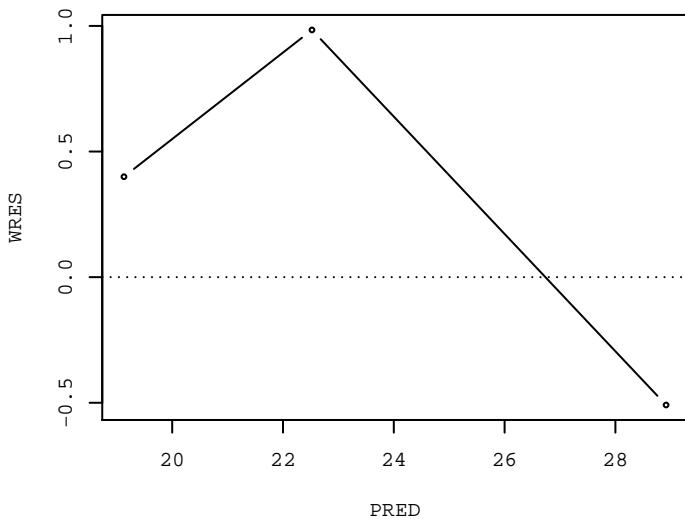


*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 57
IOFV = 8.15911 , OFV per DV = 4.0796 , Run Test(CWRES) p = 0.5
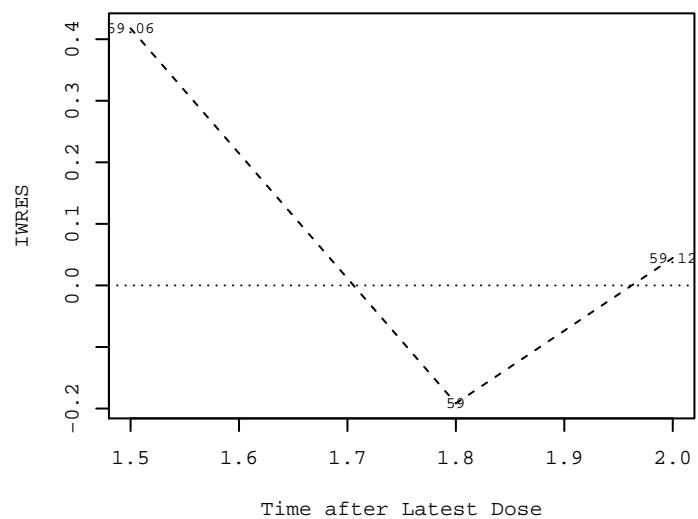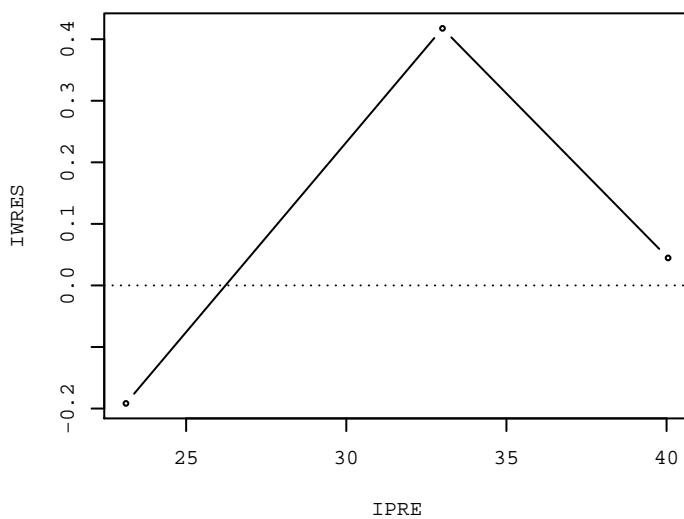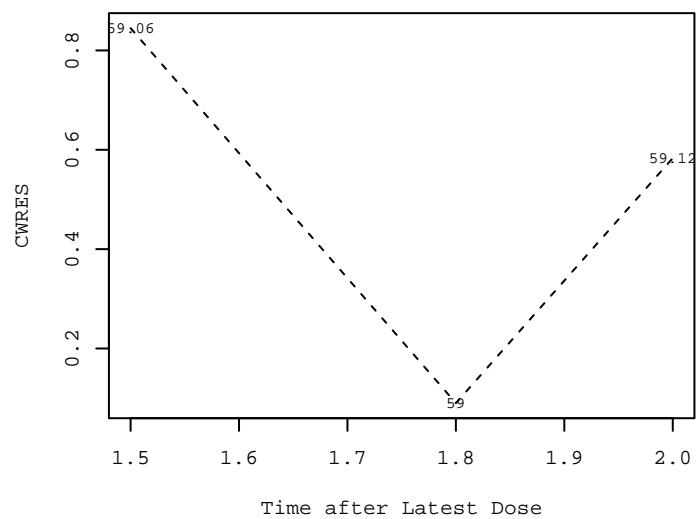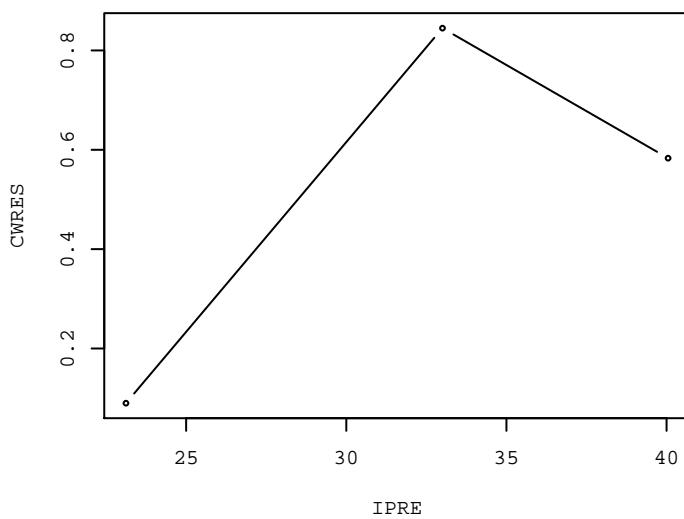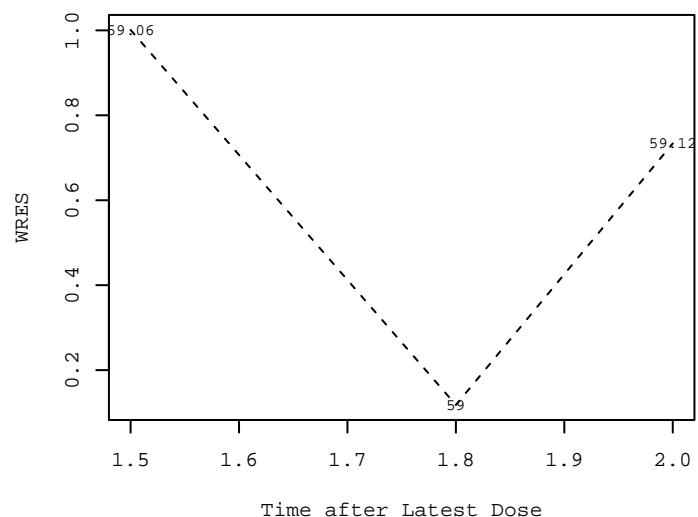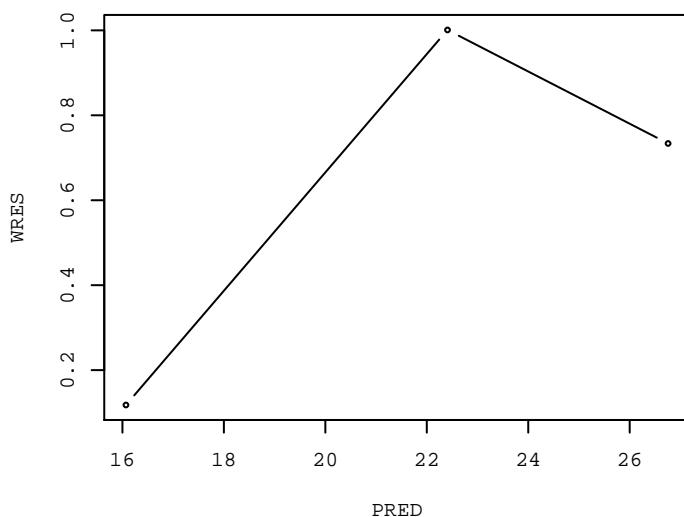


*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 58
IOFV = 11.4725 , OFV per DV = 3.8242 , Run Test(CWRES) p = 1

*Fractional number means dosing occasion.

# Individiual Residual Curve, ID = 59
IOFV = 11.8823 , OFV per DV = 3.9608 , Run Test(CWRES) p = 0.25

*Fractional number means dosing occasion.

Subjects with Bad Run Test Result on CWRES

None