

Compliance Engineering Services Inc.

Project No. : 99U0599

Report No. : 991223

Date : 12/23/1999

Time : 13:48

Test Engr : MIKE / THU

>> 3 M RADIATED EMISSION DATA <<

Company : MATTEL

Equipment Under Test : 27 Mhz Transmitter

RC Car Racin'Rat M/N: 96426

Test Configuration : EUT only

Type of Test : FCC CLASS B

Mode of Operation : Normal

Freq. dBuV PreAmp Ant Cable dBuV/m Limit Margin Hgt(m) Az
Active Loop Antenna M/N:102615 ; Pre-pamp = 8447D-P8 2944A06589:

Center of Loop Antenna:

EUT @ X-Position (Lay Down)

AV:27.14 (80.9-7.5) -27.28 9.00 1.29 56.41 80.00 -23.56 1.0 90

EUT @ Y-Position (Straight Stand)

AV:27.14 (78.7-7.5) -27.28 9.00 1.29 54.21 80.00 -25.79 1.0 90

EUT @ Z-Position (Side Stand)

AV:27.14 (83.7-7.5) -27.28 9.00 1.29 59.21 80.00 -20.79 1.0 90

Side of Loop Antenna:

EUT @ X-Position (Lay Down)

AV:27.14 (79.7-7.5) -27.28 9.00 1.29 55.21 80.00 -24.79 1.0 90

EUT @ Y-Position (Straight Stand)

AV:27.14 (77.5-7.5) -27.28 9.00 1.29 53.01 80.00 -26.99 1.0 90

EUT @ Z-Position (Side Stand)

AV:27.14 (82.7-7.5) -27.28 9.00 1.29 58.21 80.00 -21.79 1.0 90

Loop Antenna Parallel with Ground Plane:

EUT @ X-Position (Lay Down)

AV:27.14 (72.6-7.5) -27.28 9.00 1.29 48.11 80.00 -31.89 1.0 90

EUT @ Y-Position (Straight Stand)

AV:27.14 (72.5-7.5) -27.28 9.00 1.29 48.01 80.00 -31.99 1.0 90

EUT @ Z-Position (Side Stand)

AV:27.14 (75.3-7.5) -27.28 9.00 1.29 50.81 80.00 -29.19 1.0 90

* $M(\%) = 3.4 + 5.04/20 = 8.44/20 = 42\%$ or -7.5dB for 27.14Mhz

Total # of data 9

V. 112999b