



## APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)  
Liquid Temperature : 21.7 °C  
Date Tested : January 23, 2007

**DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 - SN:1007**  
**Program Name: Validation 450 MHz**

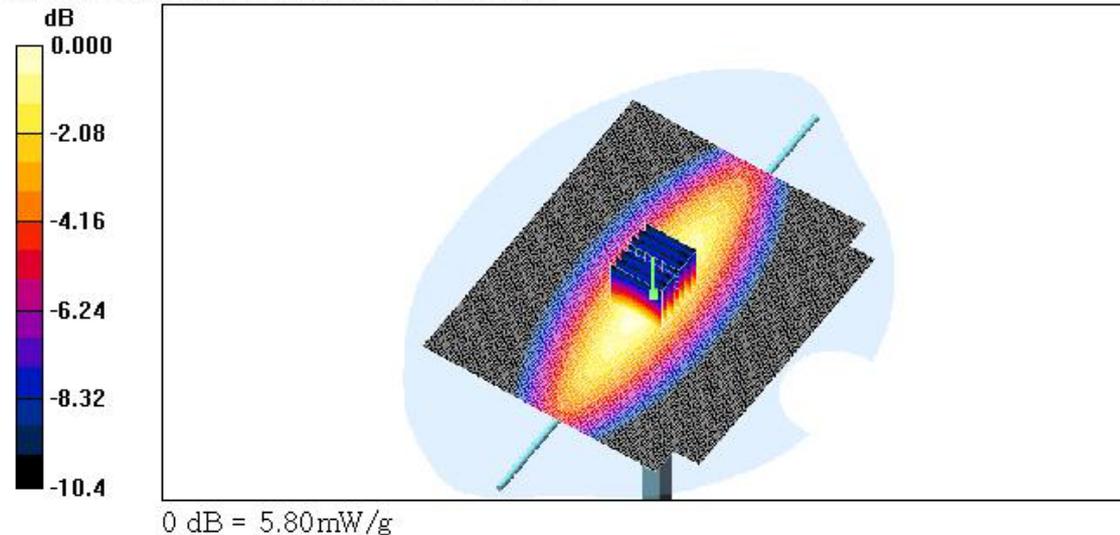
Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.849$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.82, 6.82, 6.82); Calibrated: 2006-03-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-11-15
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Validatoin 450 MHz/Area Scan (101x121x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 5.78 mW/g

**Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 85.5 V/m; Power Drift = -0.025 dB  
Peak SAR (extrapolated) = 8.41 W/kg  
**SAR(1 g) = 5.32 mW/g; SAR(10 g) = 3.39 mW/g**  
Maximum value of SAR (measured) = 5.80 mW/g



# Title : GXT850

SubTitle : 450MHz(HEAD)

January 23, 2007 08:24 AM

Frequency	e'	e''
400.000000 MHz	47.1604	36.7015
405.000000 MHz	46.9684	36.2303
410.000000 MHz	46.8200	35.9583
415.000000 MHz	46.6027	35.4813
420.000000 MHz	46.3090	35.1977
425.000000 MHz	46.1007	34.7899
430.000000 MHz	45.9404	34.5406
435.000000 MHz	45.7752	34.2401
440.000000 MHz	45.7281	34.0616
445.000000 MHz	45.6947	33.9604
450.000000 MHz	45.4286	33.9179
455.000000 MHz	45.3681	33.7325
460.000000 MHz	45.3361	33.7116
465.000000 MHz	45.2854	33.6761
470.000000 MHz	45.2893	33.6323
475.000000 MHz	45.2512	33.6499
480.000000 MHz	45.2227	33.5062
485.000000 MHz	45.1044	33.3456
490.000000 MHz	45.1468	33.1951
495.000000 MHz	44.9993	33.0460
500.000000 MHz	44.9800	32.9287

# Title : GXT850

SubTitle : 450MHz(BODY)

January 23, 2007 02:05 PM

Frequency	e'	e''
400.000000 MHz	55.7821	41.7922
405.000000 MHz	55.5345	41.2606
410.000000 MHz	55.4291	40.8005
415.000000 MHz	55.2446	40.4686
420.000000 MHz	55.0686	40.1637
425.000000 MHz	54.9365	39.8582
430.000000 MHz	54.6911	39.3609
435.000000 MHz	54.7105	39.2014
440.000000 MHz	54.4374	38.9437
445.000000 MHz	54.3062	38.5881
450.000000 MHz	54.2062	38.4836
455.000000 MHz	53.9757	38.0840
460.000000 MHz	53.9306	37.8453
465.000000 MHz	53.9233	37.4174
470.000000 MHz	54.1148	37.1142
475.000000 MHz	54.1564	37.0828
480.000000 MHz	54.0872	36.9926
485.000000 MHz	54.1445	36.8959
490.000000 MHz	54.0935	36.8765
495.000000 MHz	53.9210	36.6890
500.000000 MHz	53.8216	36.6652