

## APPENDIX D – DIPOLE VALIDATION PLOTS

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Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)  
Liquid Temperature : 22.1 °C  
Date Tested : July 13, 2006

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

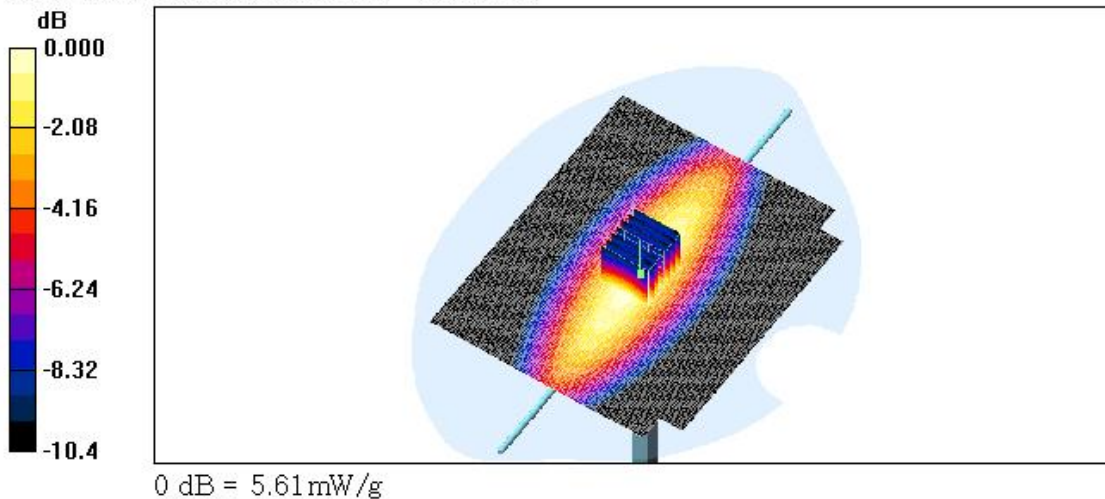
Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.851$  mho/m;  $\epsilon_r = 45.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.82, 6.82, 6.82); Calibrated: 2006-03-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn447; Calibrated: 2005-11-30
- Phantom: SAM 835/900 MHz; Type: SAM

**Validatoin 450 MHz/Area Scan (101x121x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 5.79 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) = 8.42 W/kg  
**SAR(1 g) = 5.03 mW/g; SAR(10 g) = 3.39 mW/g**  
Maximum value of SAR (measured) = 5.61 mW/g



# Title : LXT314

## SubTitle : 450MHz

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Frequency	e'	e''
400.000000 MHz	47.1932	36.7804
405.000000 MHz	46.9696	36.3749
410.000000 MHz	46.7685	35.9559
415.000000 MHz	46.7227	35.6043
420.000000 MHz	46.3059	35.1782
425.000000 MHz	46.1411	34.9218
430.000000 MHz	46.0949	34.6530
435.000000 MHz	45.8904	34.3571
440.000000 MHz	45.8579	34.1556
445.000000 MHz	45.7496	34.0651
450.000000 MHz	45.6109	34.0007
455.000000 MHz	45.5786	33.8835
460.000000 MHz	45.4494	33.8399
465.000000 MHz	45.4685	33.6818
470.000000 MHz	45.3698	33.6277
475.000000 MHz	45.3843	33.5914
480.000000 MHz	45.2631	33.5347
485.000000 MHz	45.1273	33.3768
490.000000 MHz	45.1130	33.2010
495.000000 MHz	45.0406	32.9870
500.000000 MHz	45.0599	32.8974