

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)

Liquid Temperature : 21.6 °C

Date Tested : March 27, 2007

DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 - SN:1007

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.854$ mho/m; $\epsilon_r = 45.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.02, 7.02, 7.02); Calibrated: 2007-02-21

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn466; Calibrated: 2007-01-25

- 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) = 5.69 mW/g

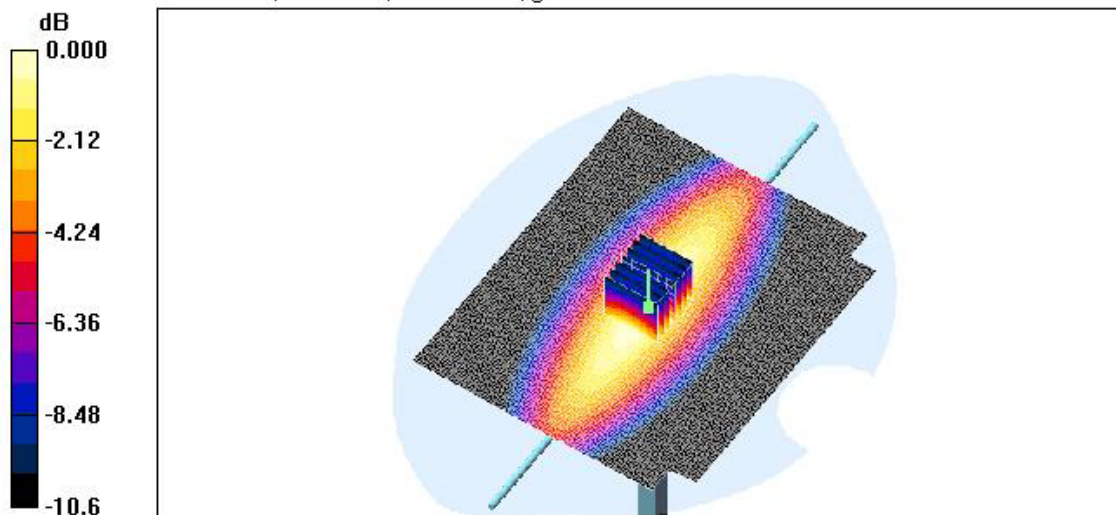
Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 84.6 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 8.37 W/kg

SAR(1 g) = 5.21 mW/g; SAR(10 g) = 3.27 mW/g

Maximum value of SAR (measured) = 5.71 mW/g



0 dB = 5.71mW/g

Title : LTK-1300HR

SubTitle : 450MHz(Head)

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Frequency	e'	e''
400.000000 MHz	47.1994	36.8213
405.000000 MHz	46.9585	36.4387
410.000000 MHz	46.8060	36.1343
415.000000 MHz	46.7441	35.7425
420.000000 MHz	46.4038	35.4228
425.000000 MHz	46.2201	35.0478
430.000000 MHz	46.1441	34.8407
435.000000 MHz	45.9393	34.5427
440.000000 MHz	45.8849	34.3234
445.000000 MHz	45.7455	34.2742
450.000000 MHz	45.5922	34.1162
455.000000 MHz	45.4850	33.9918
460.000000 MHz	45.5061	33.8489
465.000000 MHz	45.4804	33.7527
470.000000 MHz	45.4317	33.7797
475.000000 MHz	45.3932	33.6435
480.000000 MHz	45.3783	33.5857
485.000000 MHz	45.2556	33.4071
490.000000 MHz	45.1895	33.2398
495.000000 MHz	45.2226	33.0409
500.000000 MHz	45.1439	32.9849

Title : LTK-1300HR

SubTitle : 450MHz(Body)

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Frequency	e'	e''
400.000000 MHz	57.2663	41.3553
405.000000 MHz	57.1090	41.0186
410.000000 MHz	57.0990	40.7255
415.000000 MHz	57.0826	40.3983
420.000000 MHz	57.0467	40.1838
425.000000 MHz	56.9145	39.8301
430.000000 MHz	56.9684	39.5987
435.000000 MHz	56.8907	39.3076
440.000000 MHz	56.8383	38.9883
445.000000 MHz	56.7671	38.7666
450.000000 MHz	56.7166	38.4489
455.000000 MHz	56.5398	38.1633
460.000000 MHz	56.5051	37.9115
465.000000 MHz	56.4145	37.6574
470.000000 MHz	56.1518	37.3242
475.000000 MHz	56.0608	37.0907
480.000000 MHz	55.9098	36.8656
485.000000 MHz	55.8484	36.5004
490.000000 MHz	55.7254	36.2620
495.000000 MHz	55.6264	36.1644
500.000000 MHz	55.5306	35.9107