

Report No.: HCT-SAR07-1002 FCC ID: VTBTR-450H DATE: October 22, 2007

APPENDIX D – DIPOLE VALIDATION PLOTS

Report No.: HCT-SAR07-1002 FCC ID: VTBTR-450H **DATE: October 22, 2007**

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

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

Medium parameters used: f = 450 MHz; $\sigma = 0.883 \text{ mho/m}$; $\varepsilon_r = 44.3$; $\rho = 1000 \text{ kg/m}^3$

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

SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(7.25, 7.25, 7.25); Calibrated: 2007-08-30

- 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=15mm, dy=15mm Maximum value of SAR (interpolated) = 5.36 mW/g

Validatoin 450 MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

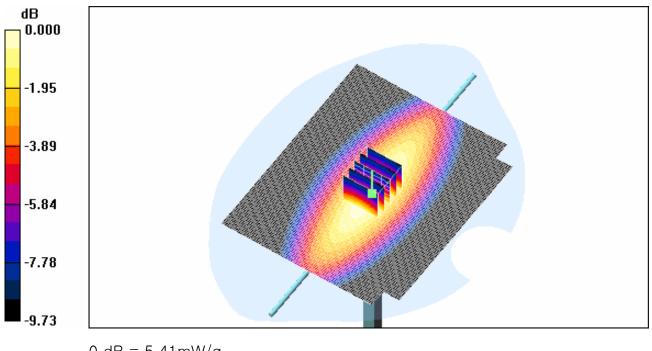
dy=8mm, dz=5mm

Reference Value = 79.7 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 7.96 W/kg

SAR(1 g) = 5.07 mW/g; SAR(10 g) = 3.37 mW/g

Maximum value of SAR (measured) = 5.41 mW/g



0 dB = 5.41 mW/g



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Title: TR-450H

SubTitle: 450MHz(HEAD)
October 17, 2007 09:08 AM

Frequency	e'	e''
400,000000 MHz	45.5643	37.9644
405.000000 MHz	45.4319	37.6711
410.000000 MHz	45.3549	37.3871
415.000000 MHz	45.1866	37,0929
420.000000 MHz	44.9809	36,8617
425.000000 MHz	44.8806	36,6405
430.000000 MHz	44.7922	36,2263
435.000000 MHz	44.5835	36,0340
440,000000 MHz	44.4563	35.7188
445,000000 MHz	44.3497	35,5216
450.000000 MHz	44 .2528	35,2520
455.000000 MHz	44.0944	35,0540
460.000000 MHz	44.0449	34,8247
465.000000 MHz	43,9880	34,6012
470.000000 MHz	43,9253	34.4465
475.000000 MHz	43.8153	34.2670
480.000000 MHz	43,8072	34,0477
485.000000 MHz	43.6489	33,8753
490.000000 MHz	43.6804	33.6746
495.000000 MHz	43,6228	33,5615
500.000000 MHz	43,6191	33,3559

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SubTitle: 450MHz(BODY)
October 17, 2007 11:14 AM

Frequency	e'	e"
400.000000 MHz	55,6381	41.2188
405.000000 MHz	55,5376	40.9219
410.000000 MHz	55,4536	40.4722
415.000000 MHz	55,3883	40.2358
420.000000 MHz	55,1978	39,9766
425.000000 MHz	55.1443	39,7793
430.000000 MHz	54.9771	39,6075
435.000000 MHz	54.6676	39.2887
440.000000 MHz	54.6255	39,0059
445,000000 MHz	54,5485	38,6385
450.000000 MHz	54.3804	38.3924
455.000000 MHz	54.3591	38,1992
460.000000 MHz	54.1149	37.9219
465.000000 MHz	54.0699	37,6863
470.000000 MHz	54.0708	37,3998
475.000000 MHz	54.0517	37.2869
480,000000 MHz	54.0671	37,1598
485.000000 MHz	54.0834	37.0344
490,000000 MHz	53,9065	37.0047
495.000000 MHz	53,7991	36,6970
500,000000 MHz	53.8110	36,6149