

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)
Liquid Temperature : 21.7 °C
Date Tested : March 9, 2007

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

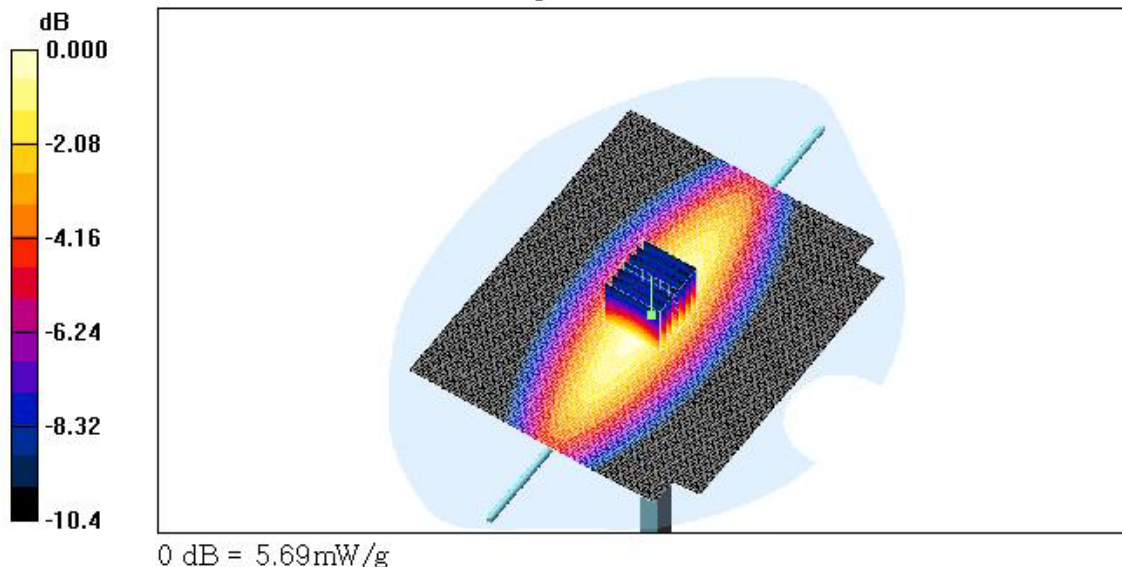
Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 450$ MHz; $\sigma = 0.85$ mho/m; $\epsilon_r = 45.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.82, 6.82, 6.82); Calibrated: 2006-03-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: SAM 1800/1900 MHz; Type: SAM

Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm
Maximum value of SAR (interpolated) = 5.77 mW/g

Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $\Delta x = 5$ mm, $\Delta y = 5$ mm, $\Delta z = 5$ mm
Reference Value = 85.4 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 8.39 W/kg
SAR(1 g) = 5.21 mW/g; SAR(10 g) = 3.38 mW/g
Maximum value of SAR (measured) = 5.69 mW/g



Title : GMRS2572

SubTitle : 450MHz(Head)

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Frequency	e'	e''
400.000000 MHz	47.2813	36.8090
405.000000 MHz	47.0070	36.3486
410.000000 MHz	46.8469	35.9337
415.000000 MHz	46.6741	35.5511
420.000000 MHz	46.2760	35.2428
425.000000 MHz	46.1128	34.8670
430.000000 MHz	46.0578	34.5416
435.000000 MHz	45.9311	34.3700
440.000000 MHz	45.8676	34.0966
445.000000 MHz	45.7406	34.0098
450.000000 MHz	45.5654	33.9518
455.000000 MHz	45.4612	33.8471
460.000000 MHz	45.5180	33.6997
465.000000 MHz	45.5187	33.6552
470.000000 MHz	45.4532	33.6406
475.000000 MHz	45.3609	33.5596
480.000000 MHz	45.3402	33.4682
485.000000 MHz	45.2748	33.3160
490.000000 MHz	45.2232	33.2339
495.000000 MHz	45.1390	33.0558
500.000000 MHz	45.1232	32.8690

Title : GMRS2572

SubTitle : 450MHz(Body)

March 09, 2007 01:15 PM

Frequency	e'	e''
400.000000 MHz	57.5638	41.2263
405.000000 MHz	57.4922	40.9164
410.000000 MHz	57.5989	40.6010
415.000000 MHz	57.5367	40.2817
420.000000 MHz	57.5149	40.1151
425.000000 MHz	57.4847	39.7406
430.000000 MHz	57.4918	39.5067
435.000000 MHz	57.3527	39.3358
440.000000 MHz	57.3633	38.9624
445.000000 MHz	57.1070	38.6206
450.000000 MHz	57.1899	38.4106
455.000000 MHz	57.0302	38.1392
460.000000 MHz	56.9649	37.8543
465.000000 MHz	56.9524	37.6386
470.000000 MHz	56.7237	37.3613
475.000000 MHz	56.6442	37.0770
480.000000 MHz	56.4950	36.8859
485.000000 MHz	56.3466	36.5189
490.000000 MHz	56.2774	36.3024
495.000000 MHz	56.2419	36.1531
500.000000 MHz	56.0439	35.9374