

Test Of: IPWireless.
2600 MHz PCMCIA Modem.
To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 2. SAR Distribution Scans

This appendix contains SAR Distribution Scans.

Plot Number	Title
GPH/45219/001	Flat Section 2600 MHz 12 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Top Slot ACer Host
GPH/45219/002	Flat Section 2600 MHz 12MHz Channel 0 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host
GPH/45219/003	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host
GPH/45219/004	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host Worst Case Low
GPH/45219/005	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host Worst Case High
GPH/45219/006	Flat Section 2600 MHz 6 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Top Slot ACer Host
GPH/45219/007	Flat Section 2600 MHz 6 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host
GPH/45219/008	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host
GPH/45219/009	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host Worst Case Low
GPH/45219/010	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot ACer Host Worst Case High
GPH/45219/011	Flat Section 2600 MHz 12 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Top Slot UMAX Host
GPH/45219/012	Flat Section 2600 MHz 12 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host
GPH/45219/013	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host
GPH/45219/014	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host Worst Case Low
GPH/45219/015	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host Worst Case High
GPH/45219/016	Flat Section 2600 MHz 6 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Top Slot UMAX Host
GPH/45219/017	Flat Section 2600 MHz 6 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host
GPH/45219/018	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host

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SAR Distribution Scans (Continued)

Plot Number	Title
GPH/45219/019	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host Worst Case Low
GPH/45219/020	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Bottom Slot UMAX Host Worst Case High
GPH/45219/021	Flat Section 2600 MHz 12 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host
GPH/45219/022	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host
GPH/45219/023	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host Worst Case Low
GPH/45219/024	Flat Section 2600 MHz 12 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host Worst Case High
GPH/45219/025	Flat Section 2600 MHz 6 MHz Channel 0 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host
GPH/45219/026	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host
GPH/45219/027	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host Worst Case Low
GPH/45219/028	Flat Section 2600 MHz 6 MHz Channel 90 Degrees to Phantom PCMCIA Modem in Slot Single Slot Only SONY Host Worst Case High
GPH/45219/029	Validation001
GPH/45219/030	Validation002
GPH/45219/031	Validation003
GPH/45219/032	Validation004

RFI GLOBAL SERVICES LTD.

TEST REPORT

S.No. RFI/SARE2/RP45219JD07A

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Issue Date: 19 August 2004

Test Of: IPWireless.

2600 MHz PCMCIA Modem.

To: OET Bulletin 65 Supplement C: (2001-01)

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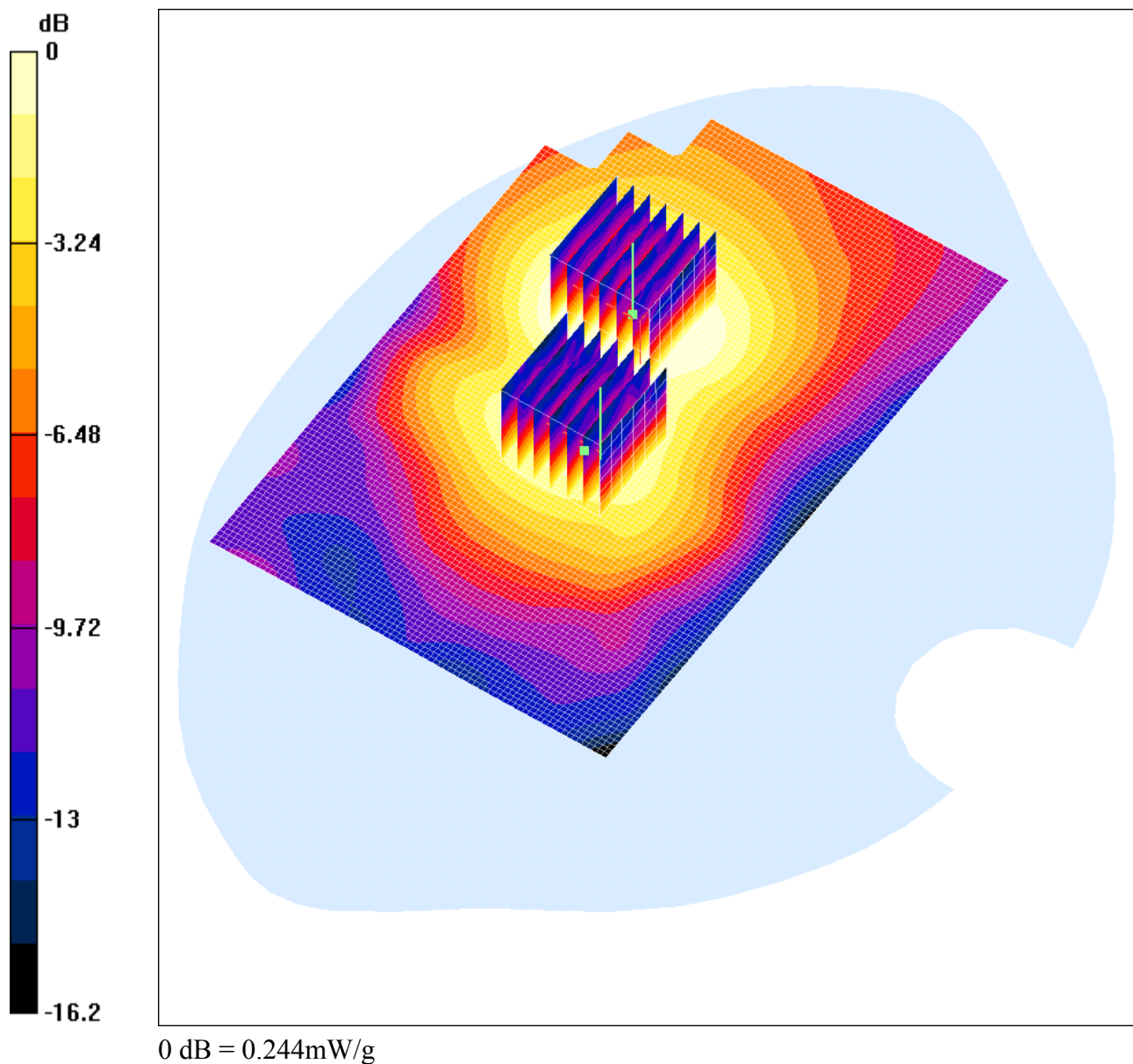
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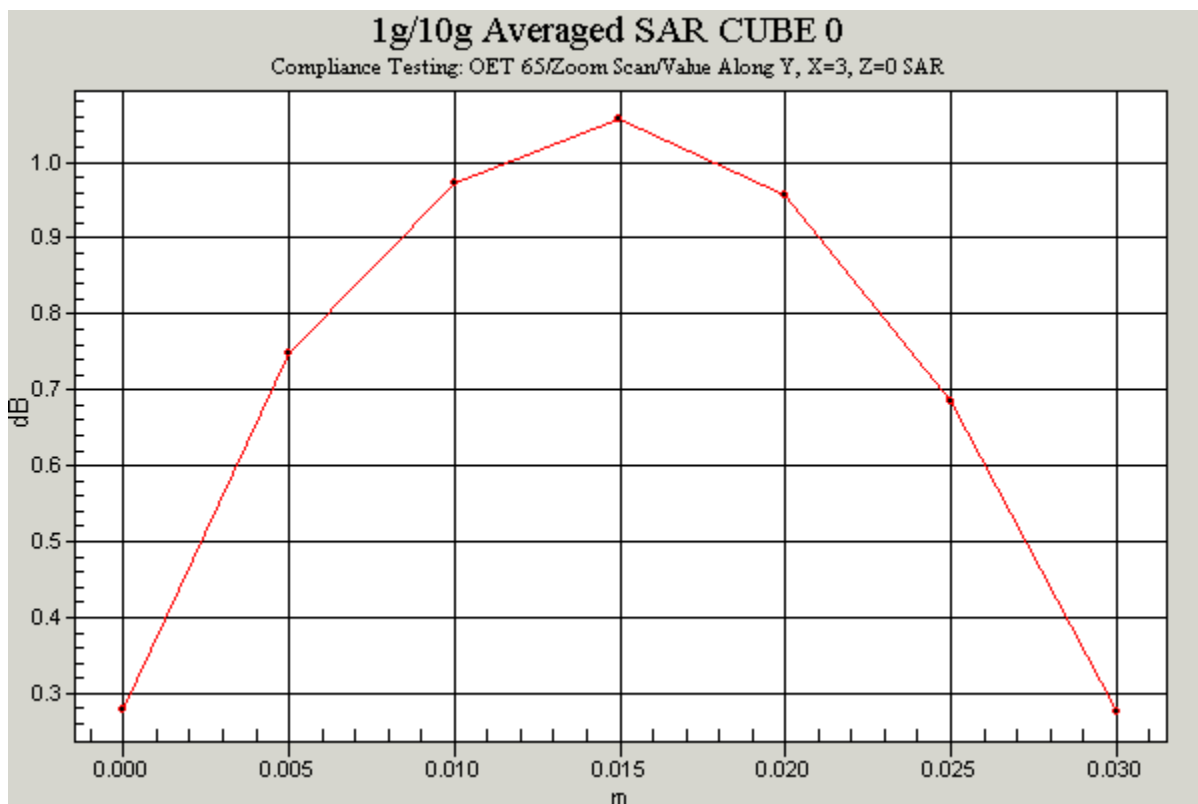
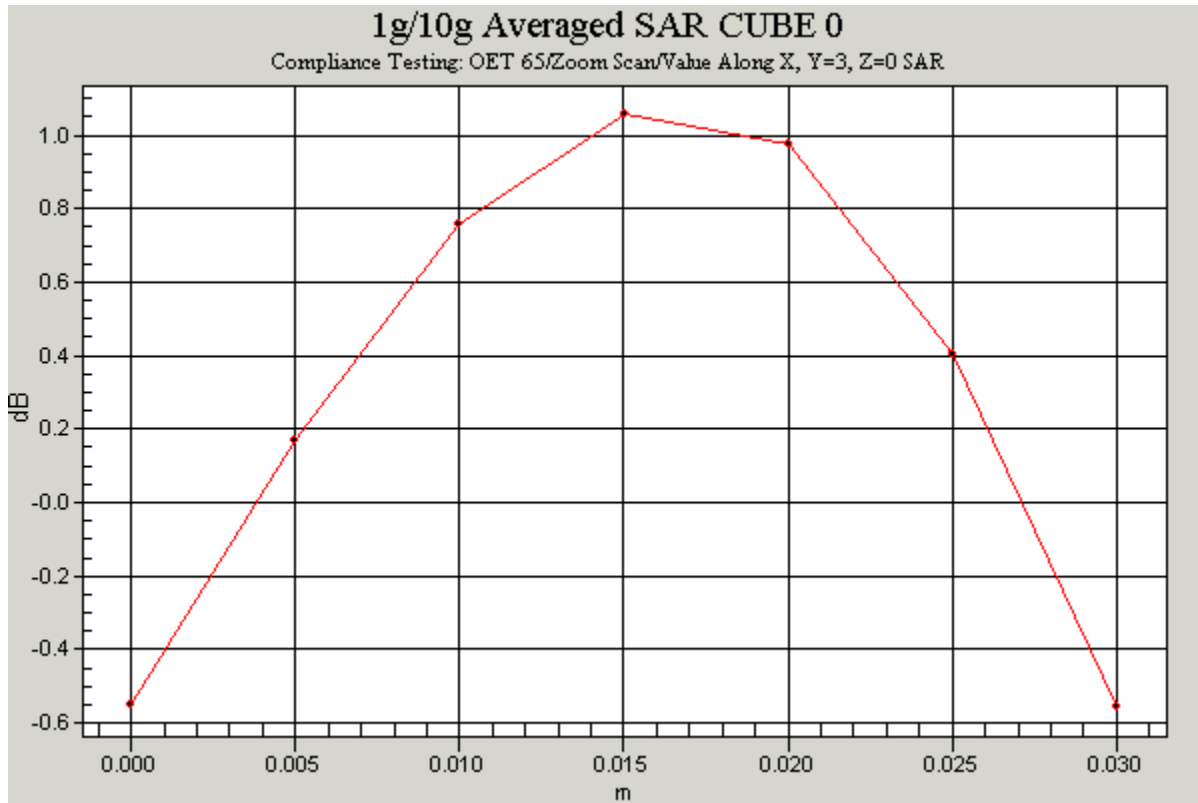
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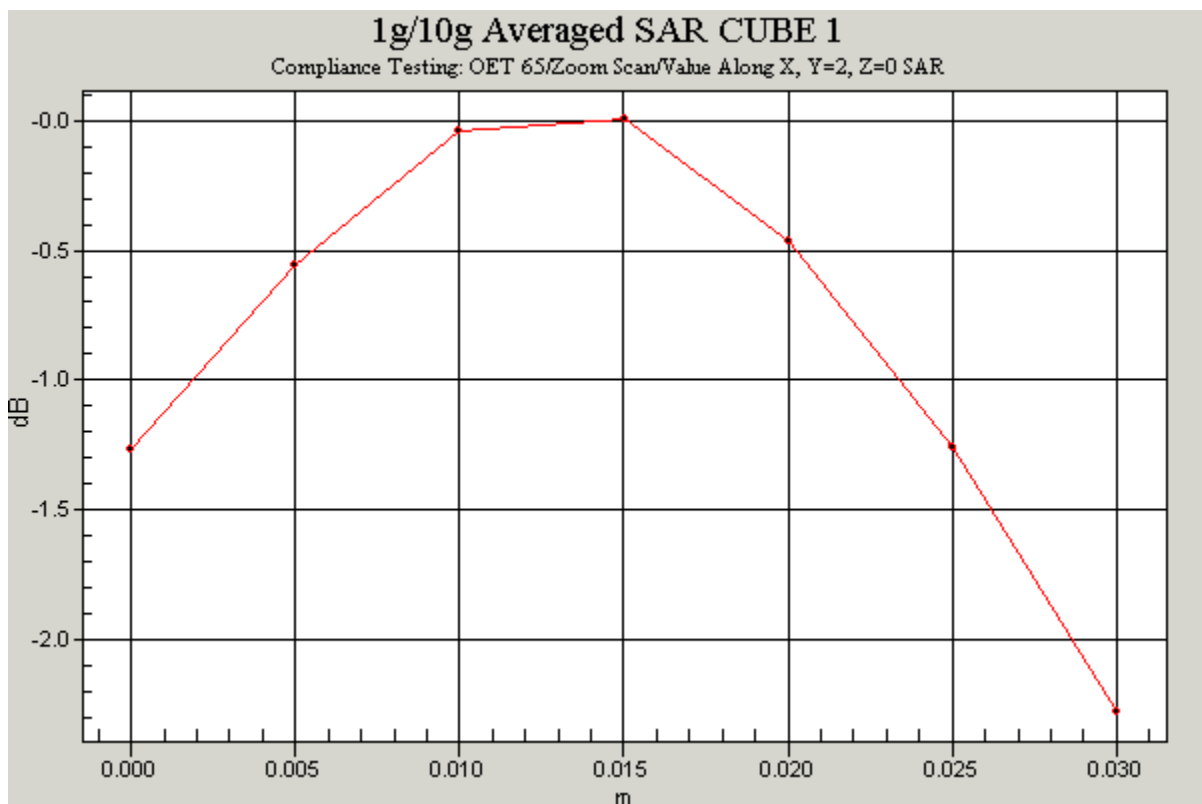
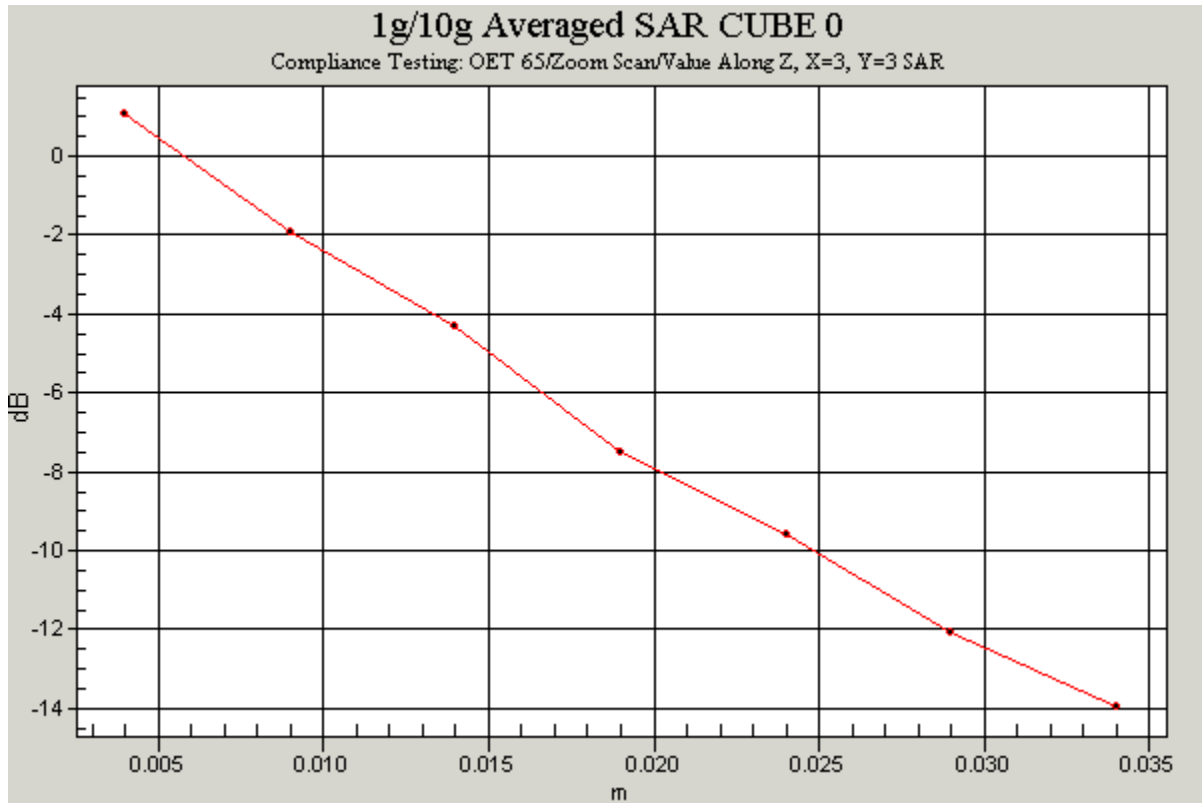
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

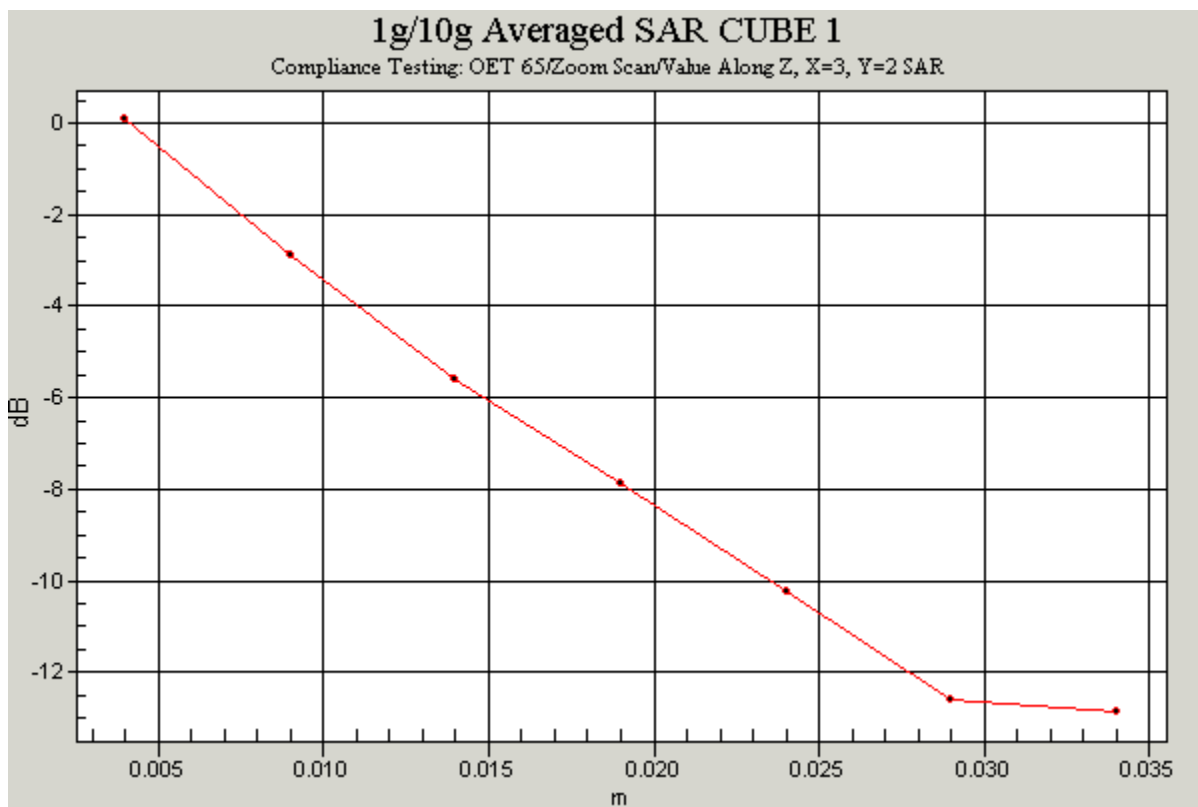
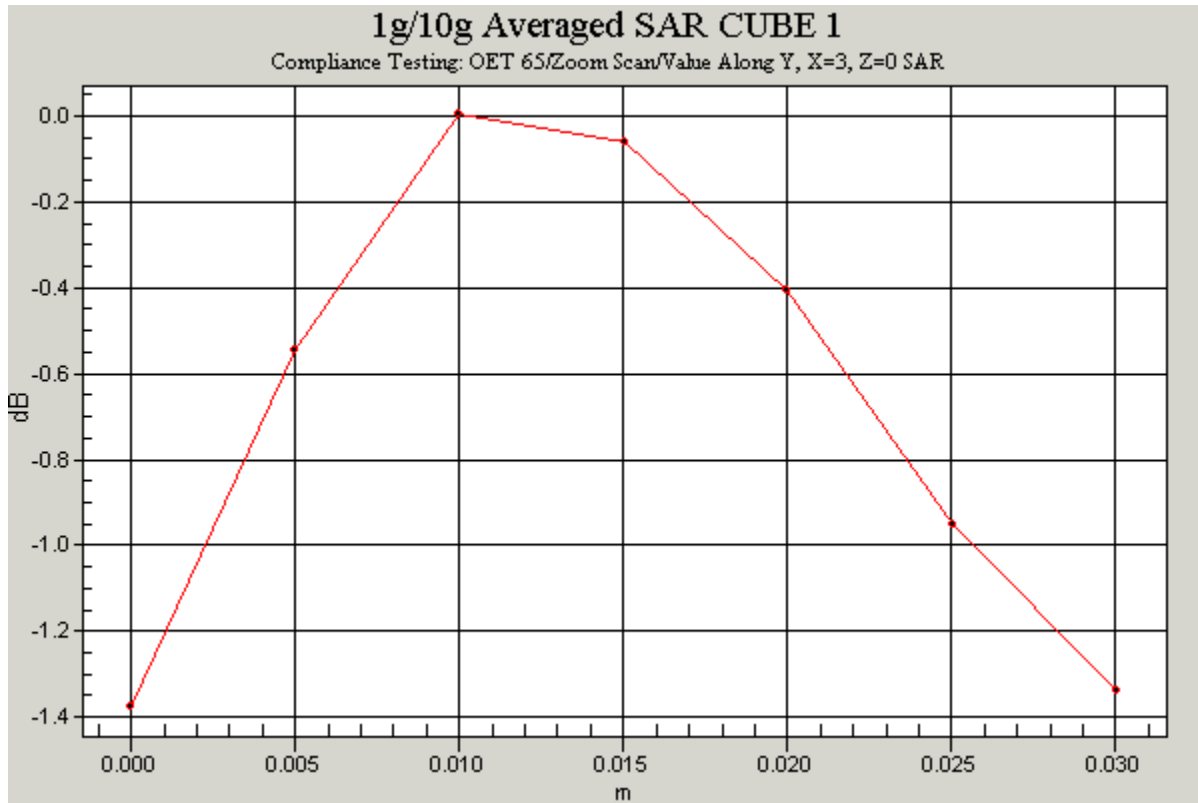
45219_JD07_Flat_Section_2600MHz_12MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Top_Slot_ACer Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213









Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r =$

53.1; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Area Scan (81x121x1): Measurement

grid: dx=15mm, dy=15mm

Reference Value = 7.36 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.305 mW/g

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.36 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.311 mW/g

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.165 mW/g

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.36 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.244 mW/g

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.126 mW/g

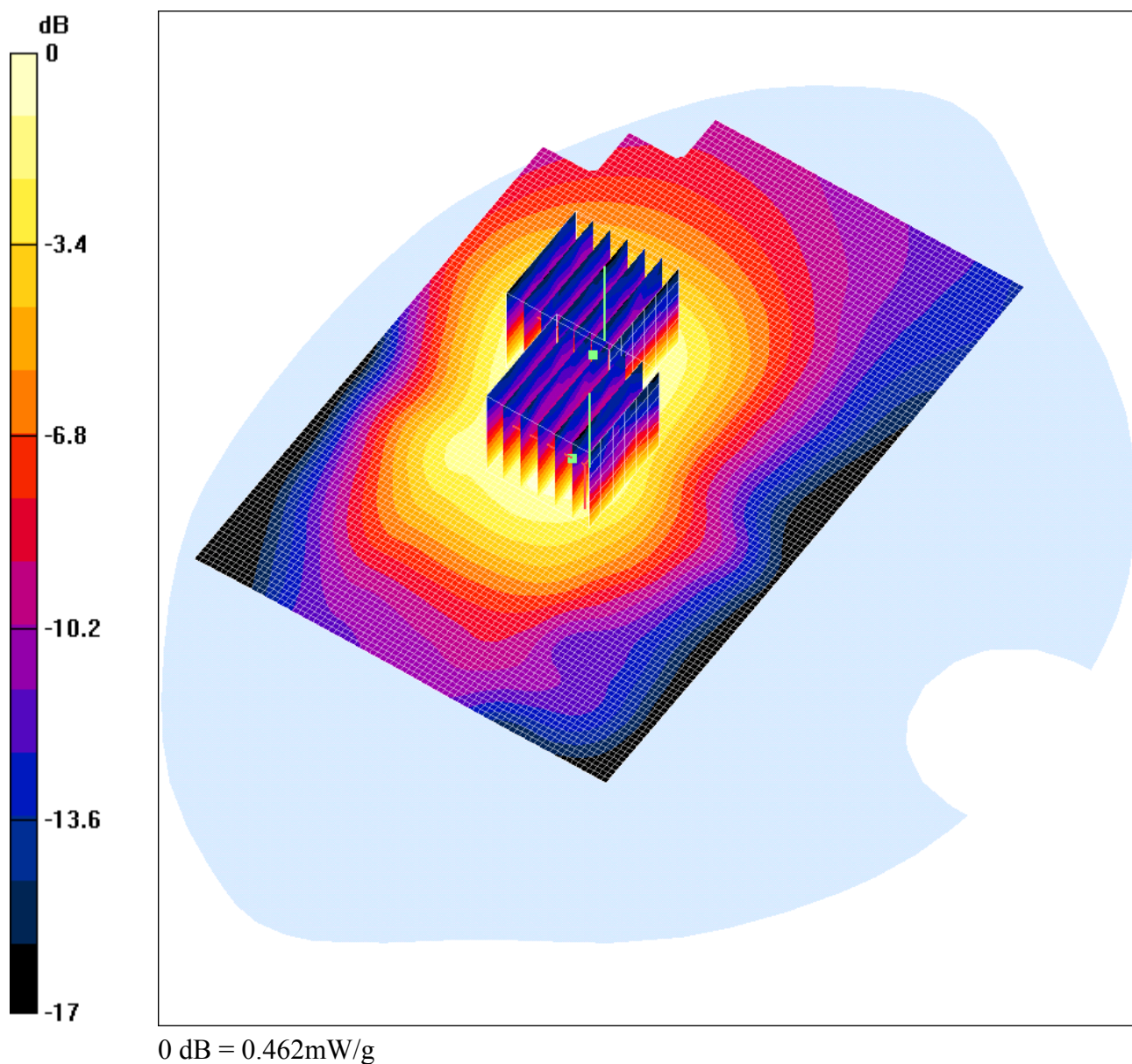
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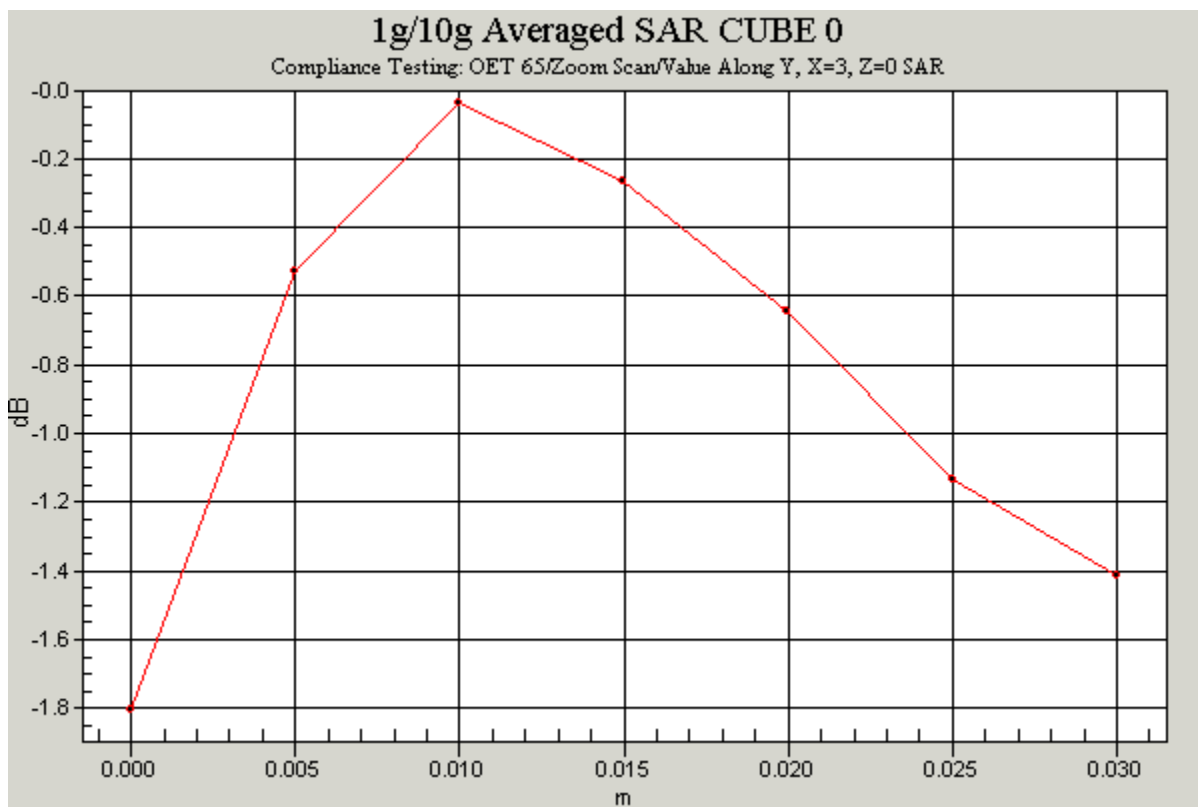
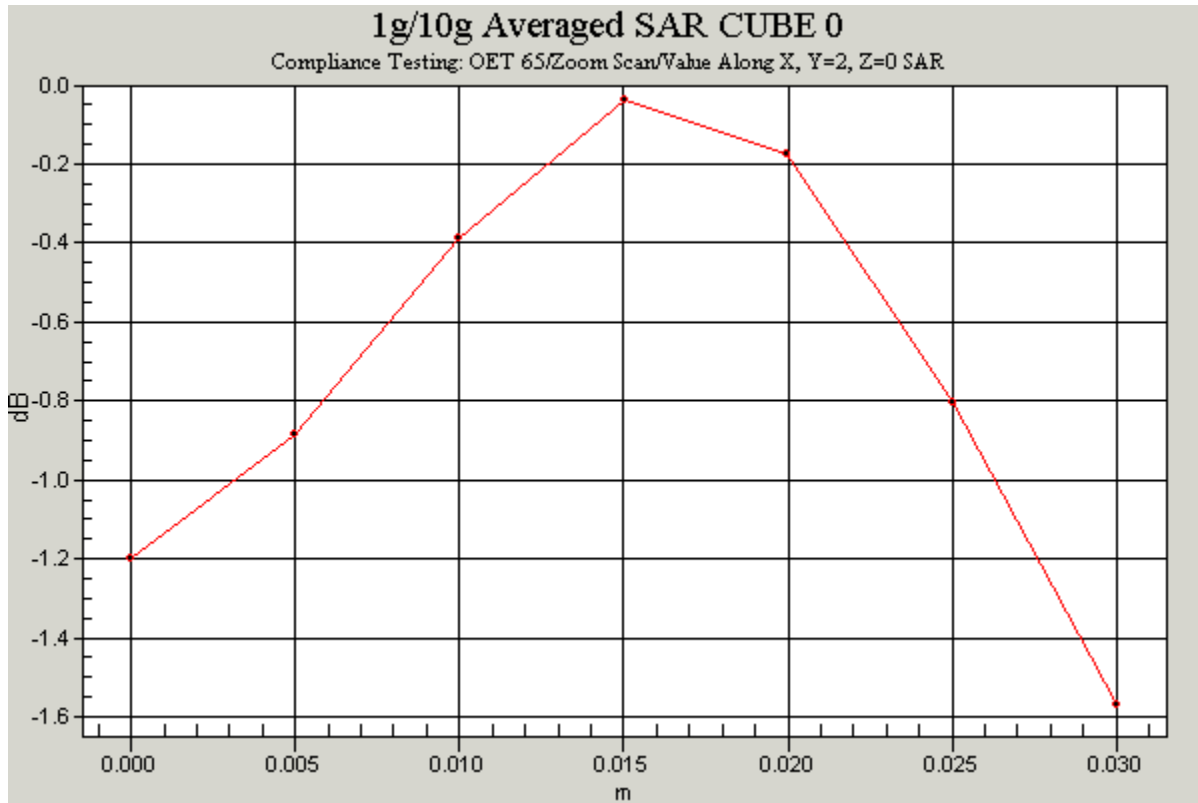
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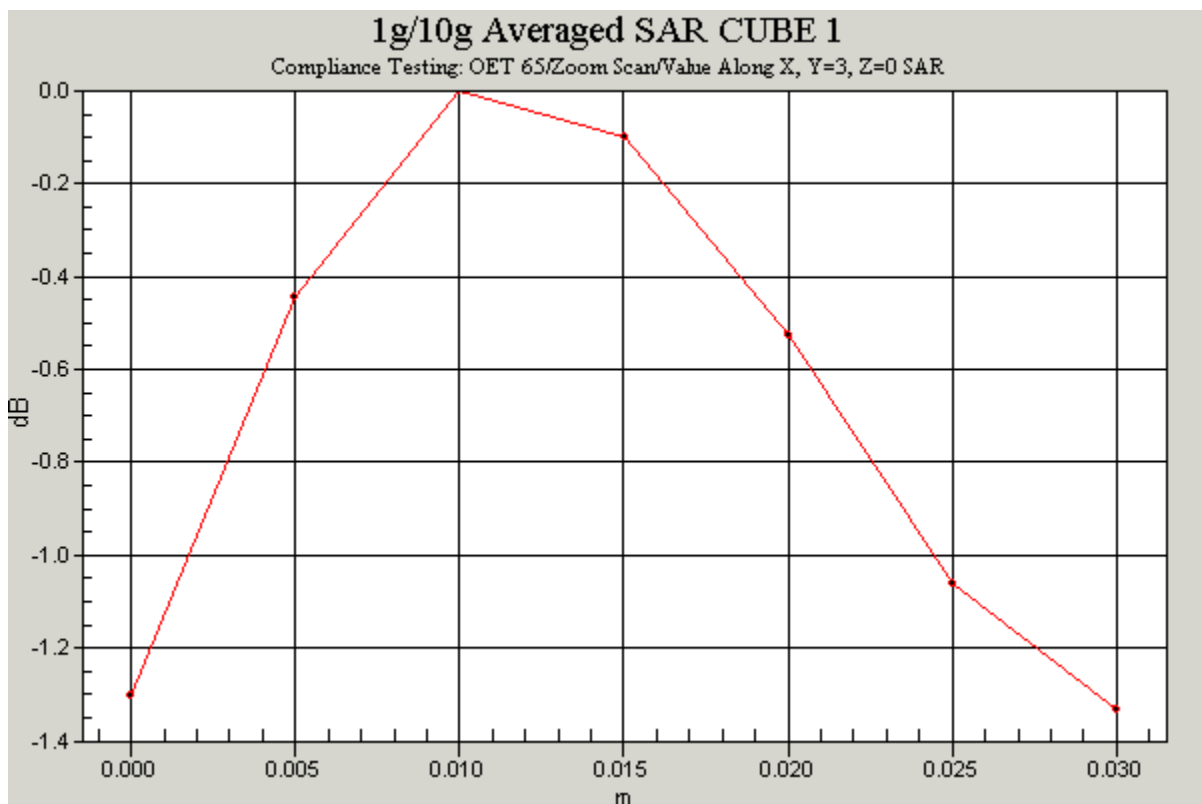
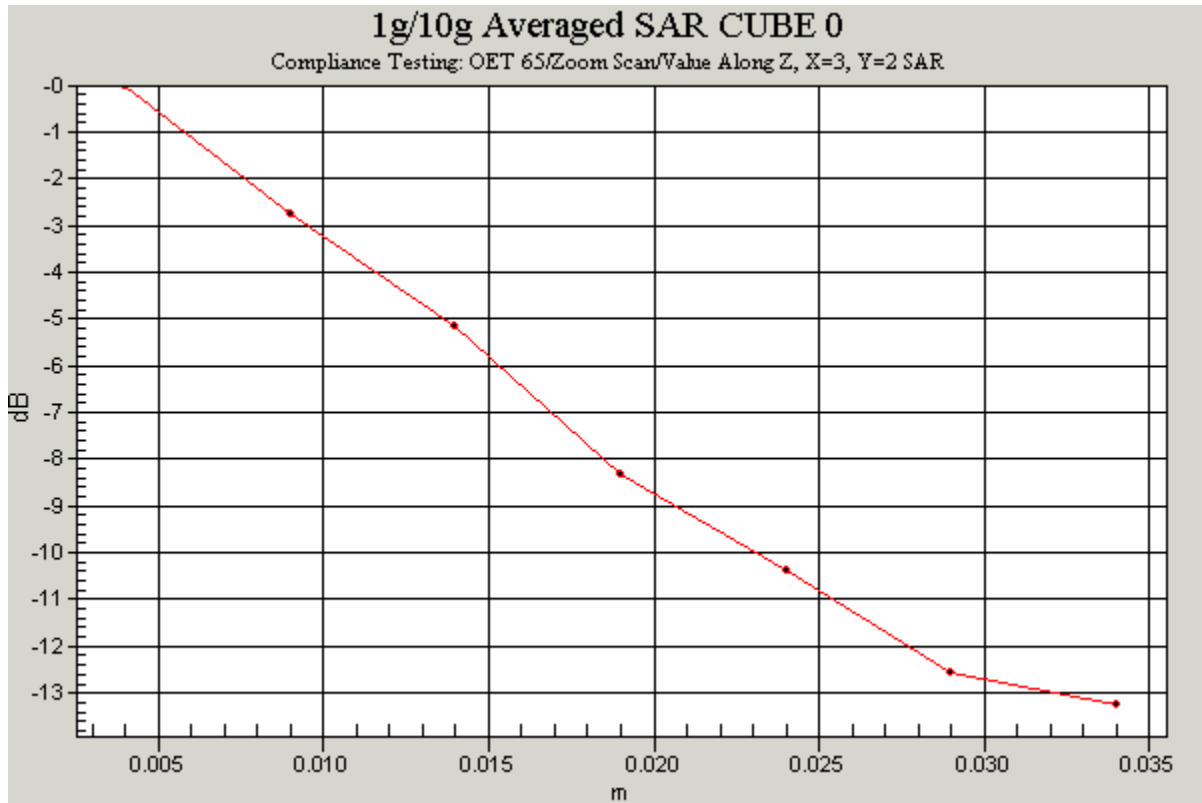
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

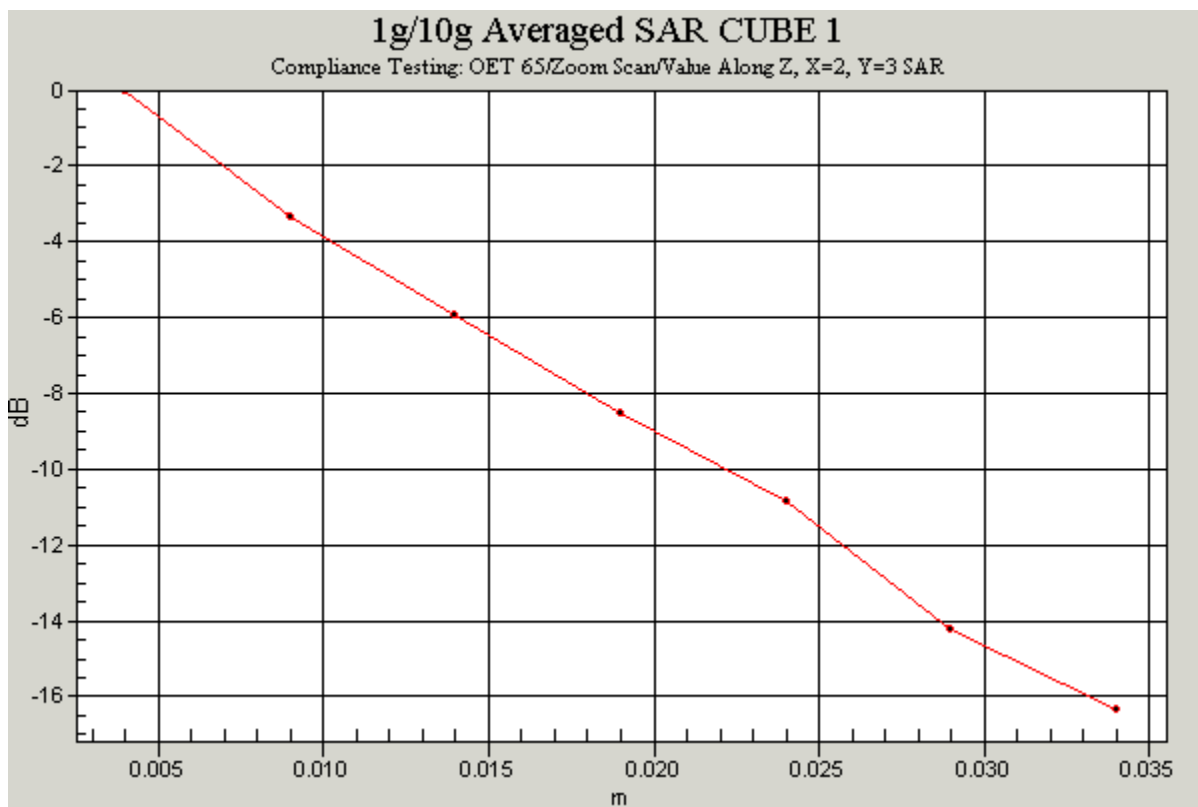
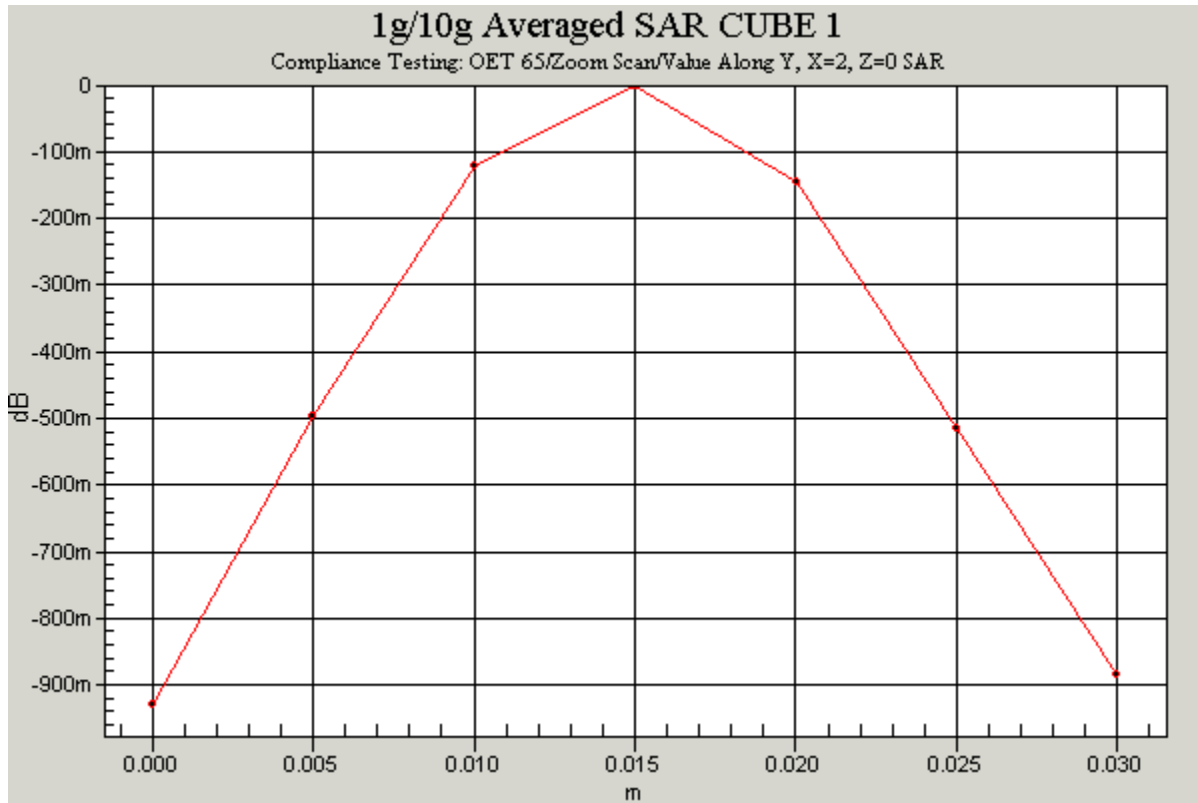
45219_JD07_Flat_Section_2600MHz_12MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213









Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r =$

53.1; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.9 V/m; Power Drift = 0.002 dB

Maximum value of SAR (interpolated) = 0.467 mW/g

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.9 V/m; Power Drift = 0.002 dB

Maximum value of SAR (measured) = 0.458 mW/g

Peak SAR (extrapolated) = 0.889 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.234 mW/g

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.9 V/m; Power Drift = 0.002 dB

Maximum value of SAR (measured) = 0.462 mW/g

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.240 mW/g

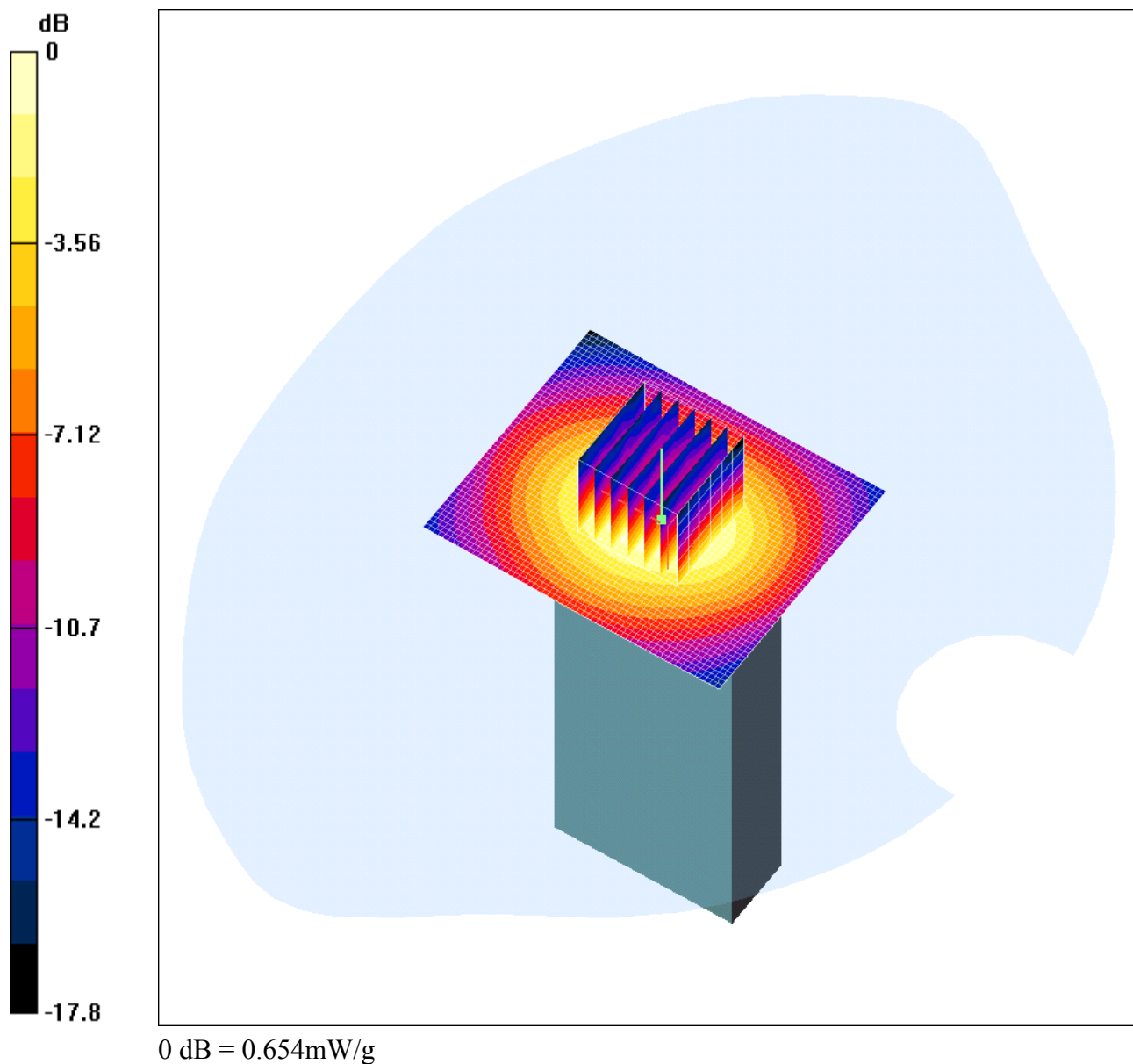
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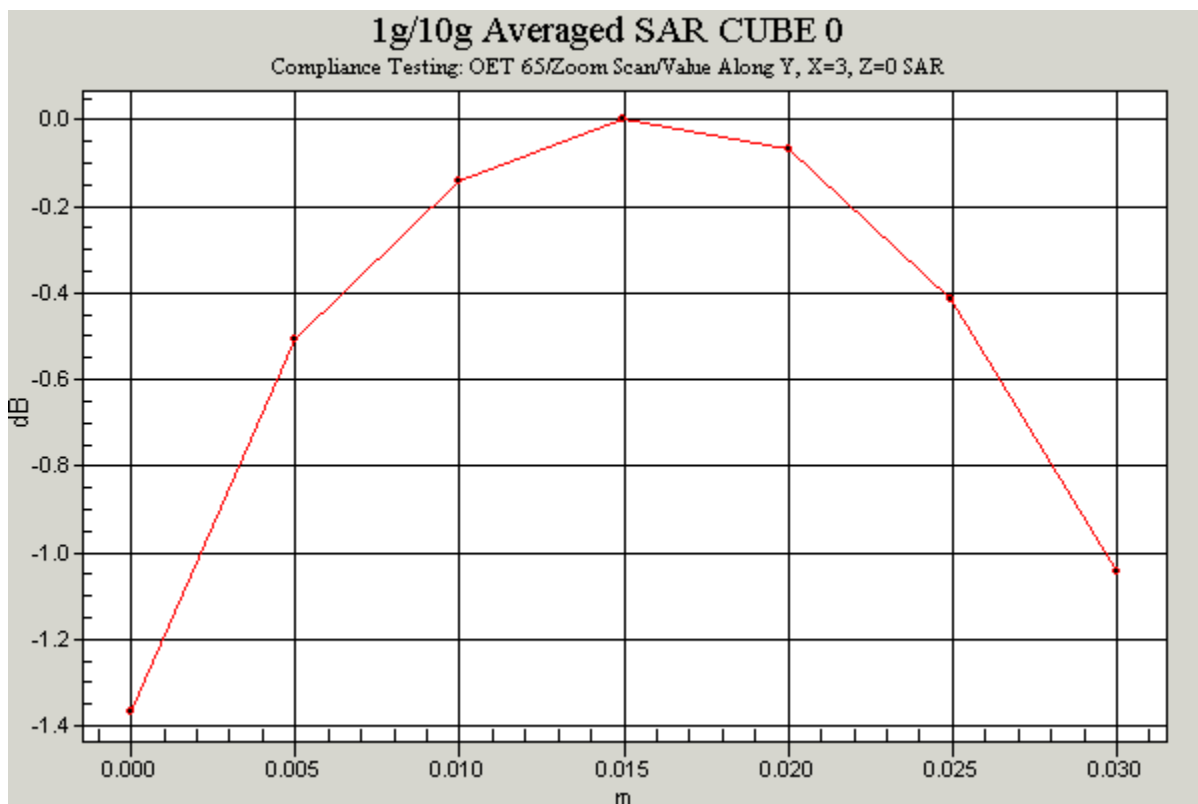
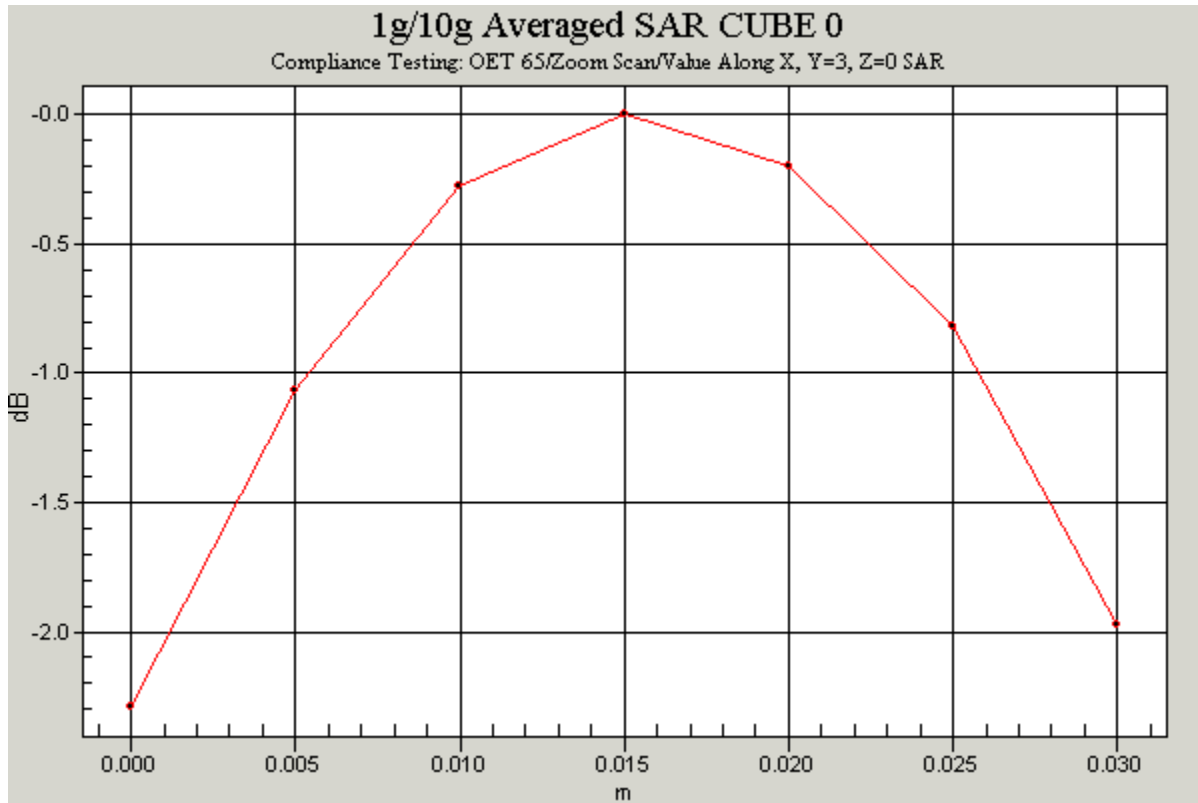
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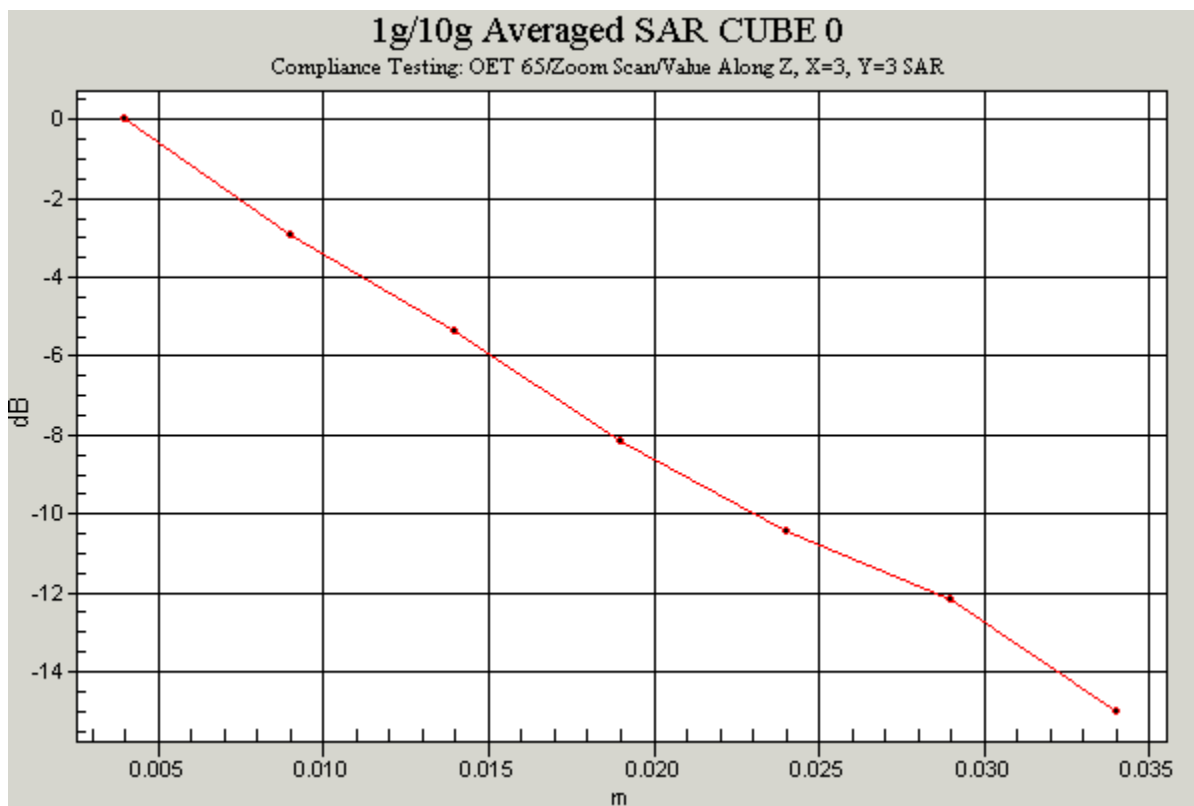
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 17.9 V/m; Power Drift = 0.0 dB
 Maximum value of SAR (interpolated) = 0.672 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 17.9 V/m; Power Drift = 0.0 dB
 Maximum value of SAR (measured) = 0.654 mW/g
 Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.340 mW/g

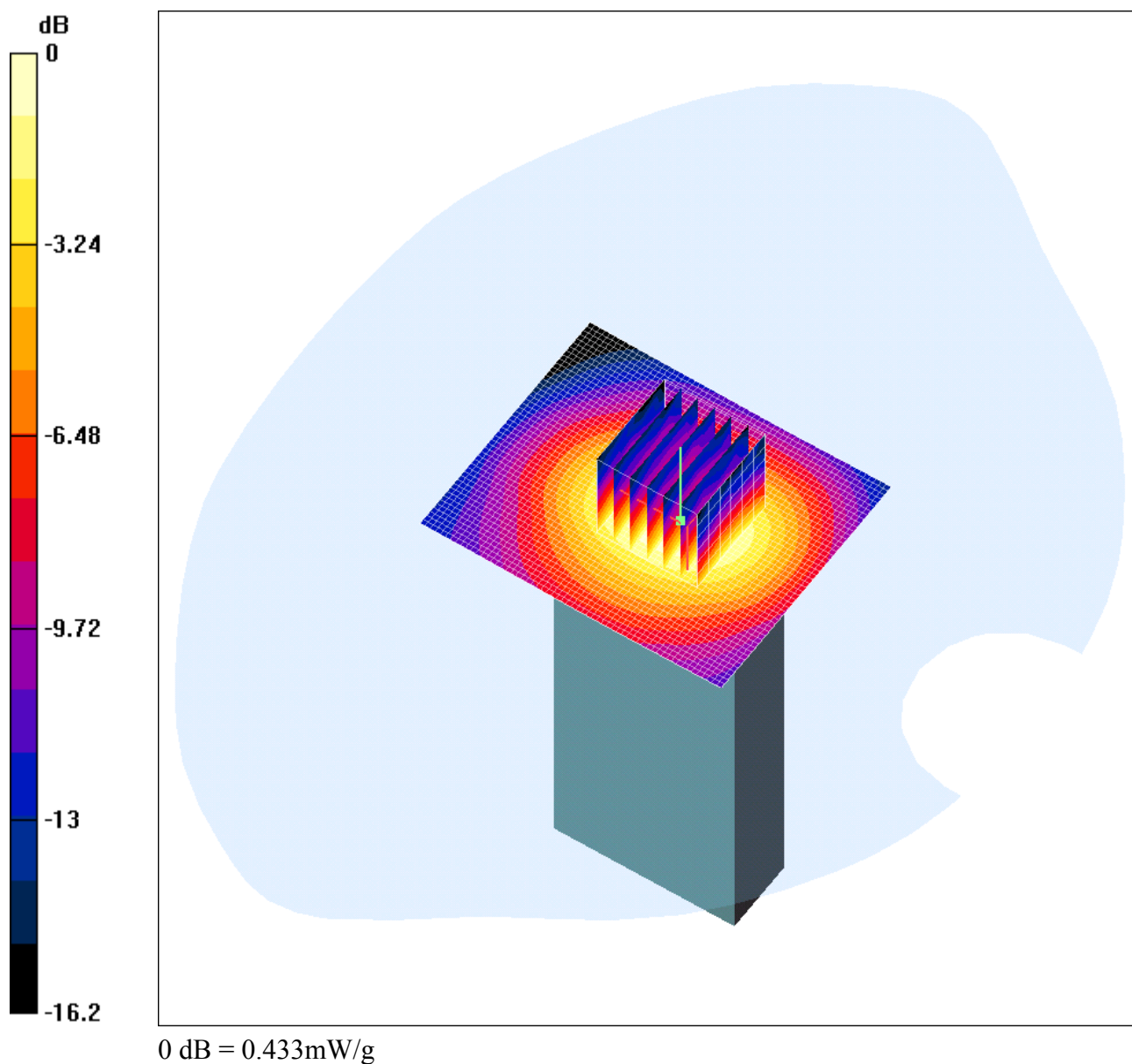
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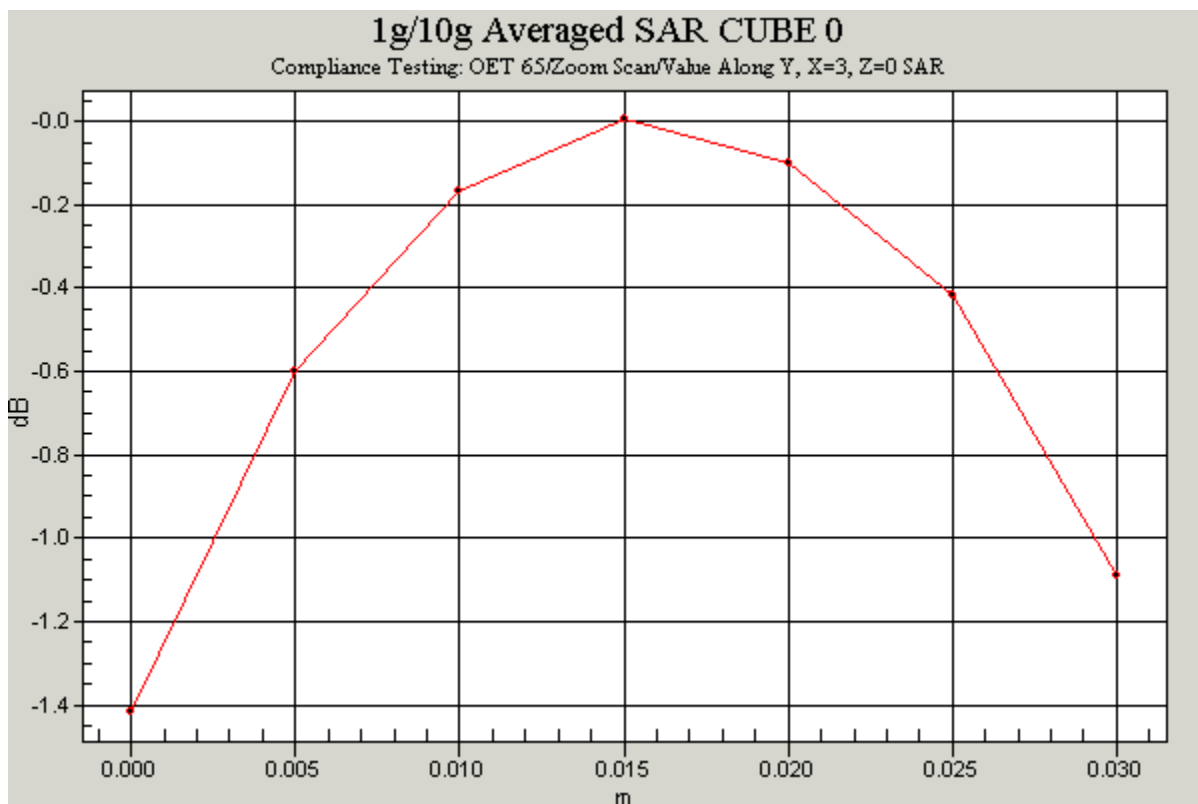
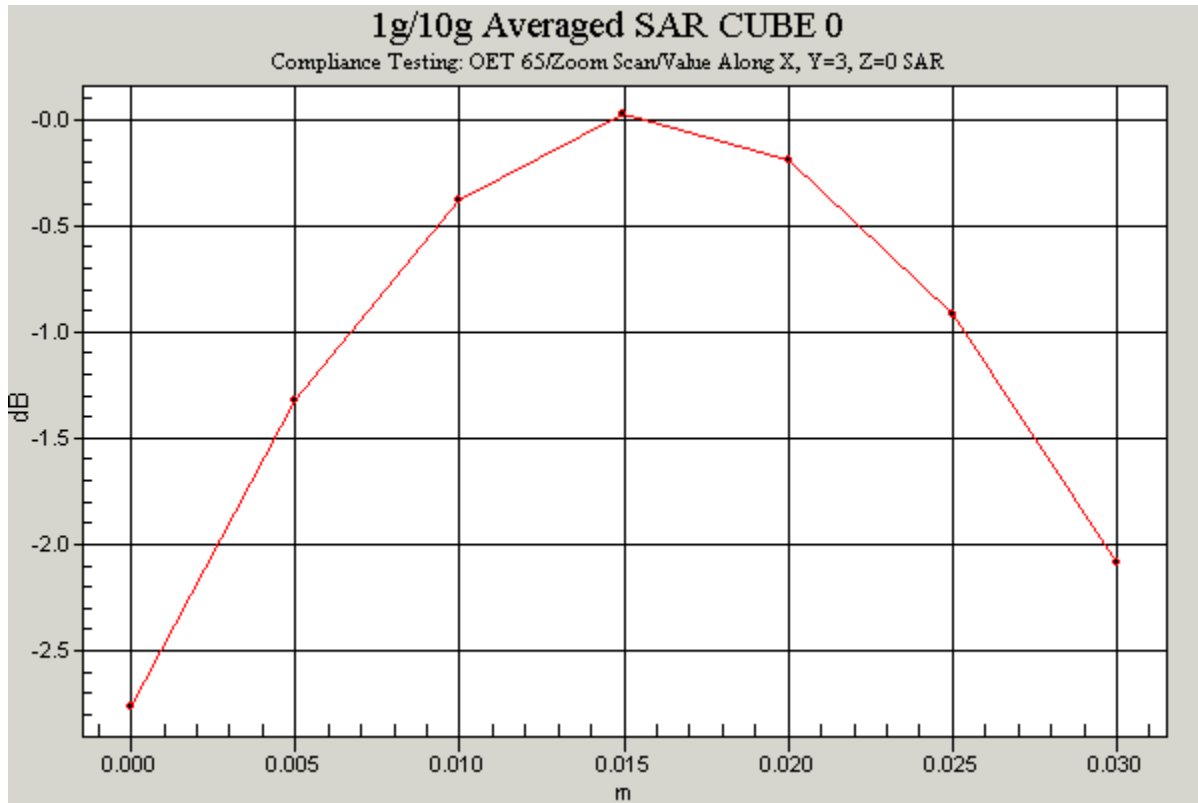
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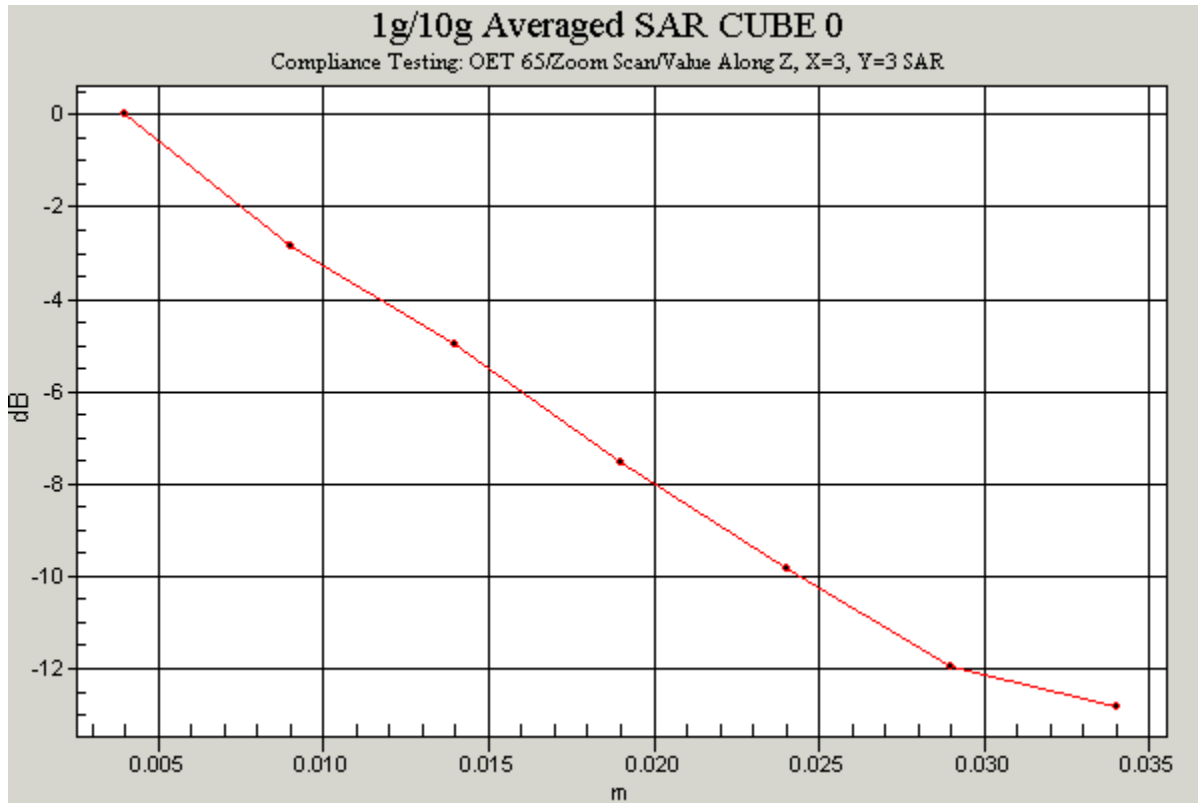
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host_Worst_Case_Low

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2506 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 2.07$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 15.1 V/m; Power Drift = 0.0 dB
 Maximum value of SAR (interpolated) = 0.454 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 15.1 V/m; Power Drift = 0.0 dB
 Maximum value of SAR (measured) = 0.433 mW/g
 Peak SAR (extrapolated) = 0.853 W/kg
SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.225 mW/g

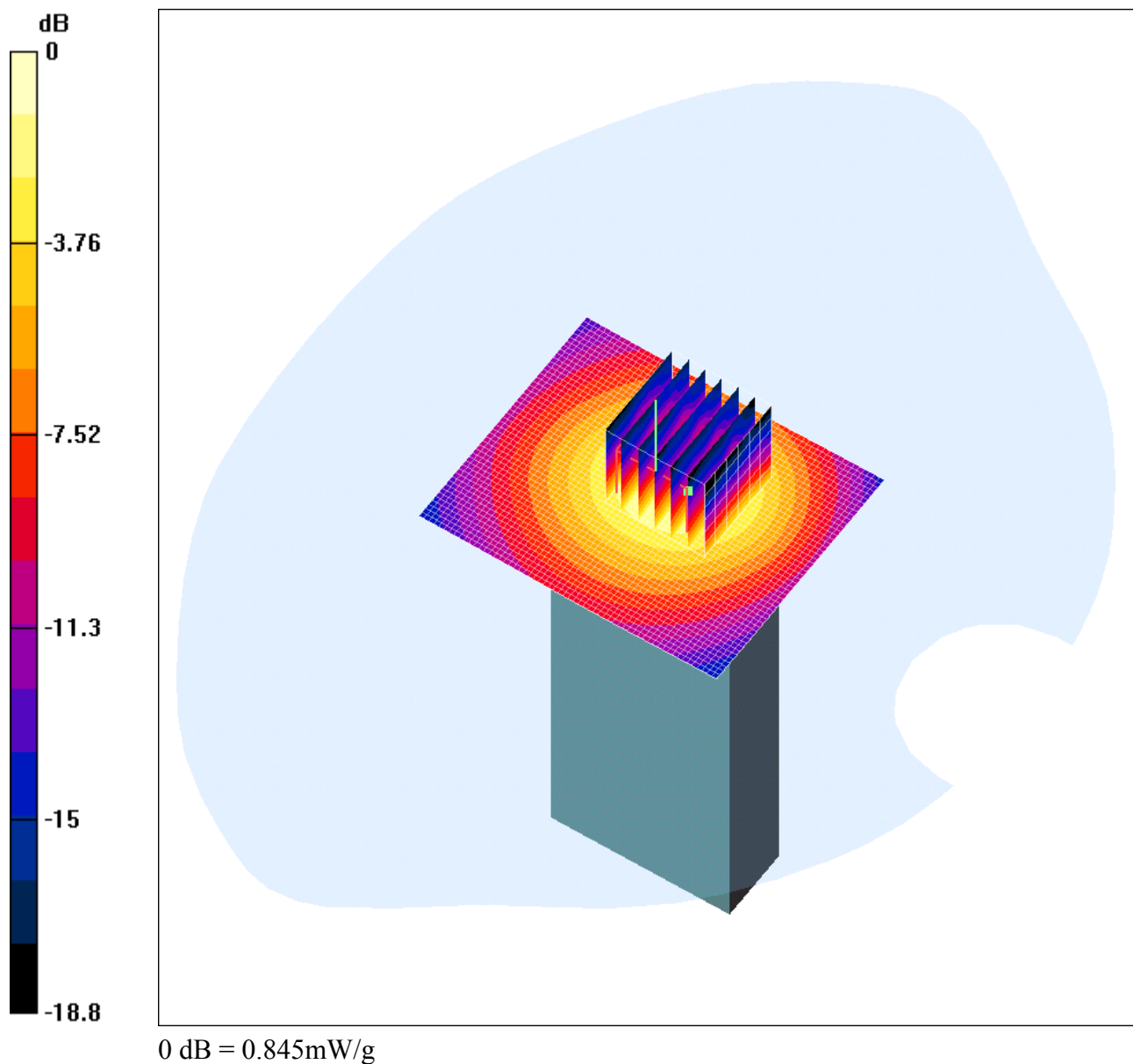
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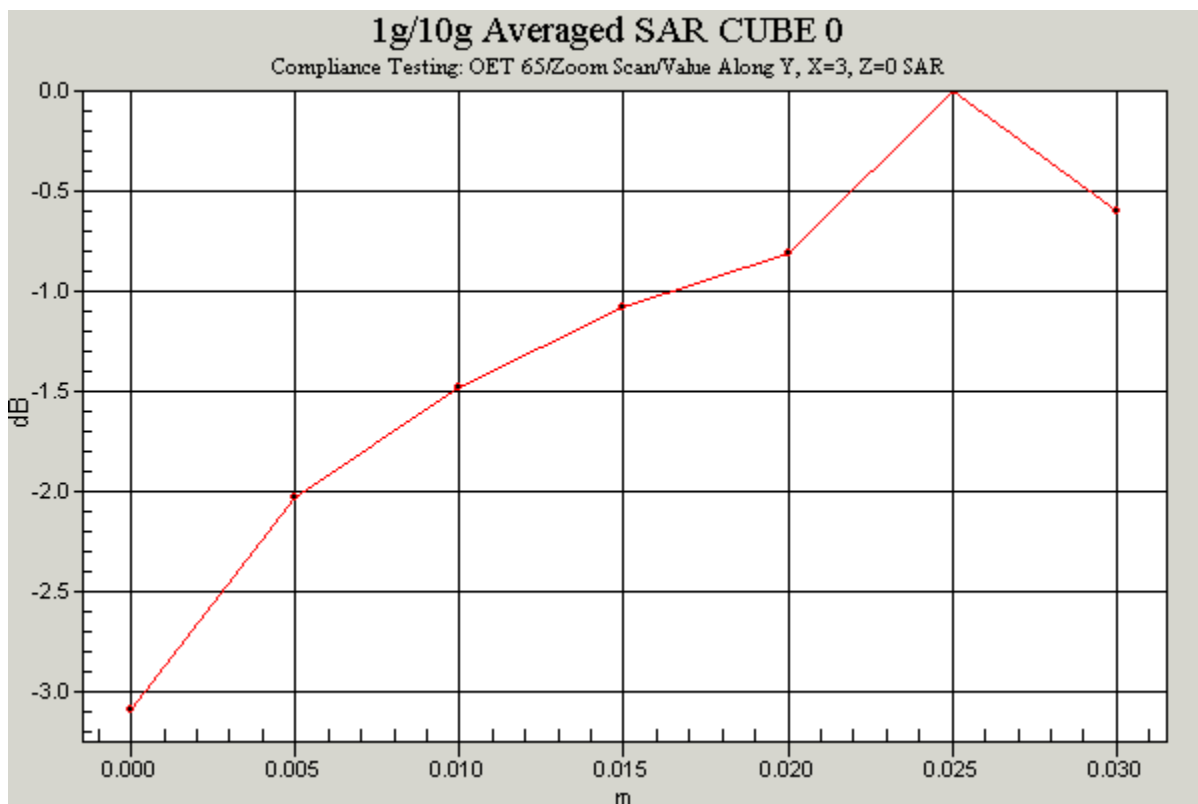
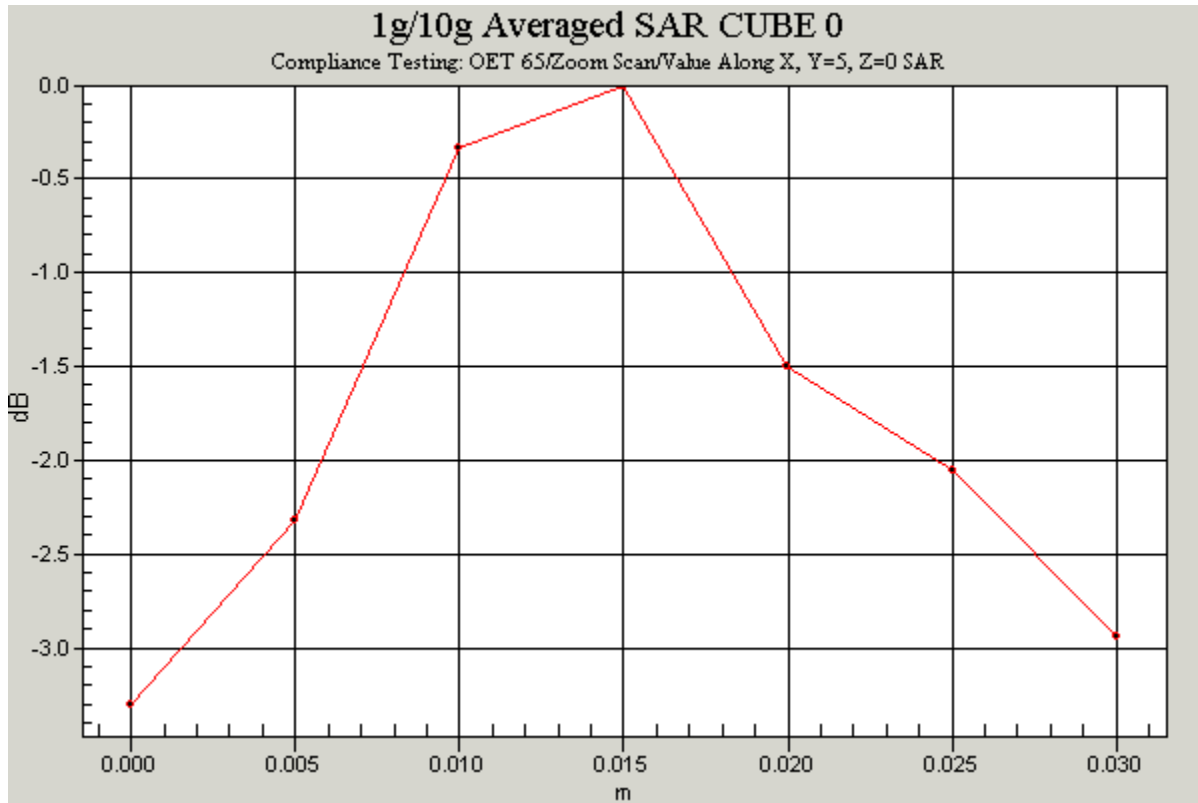
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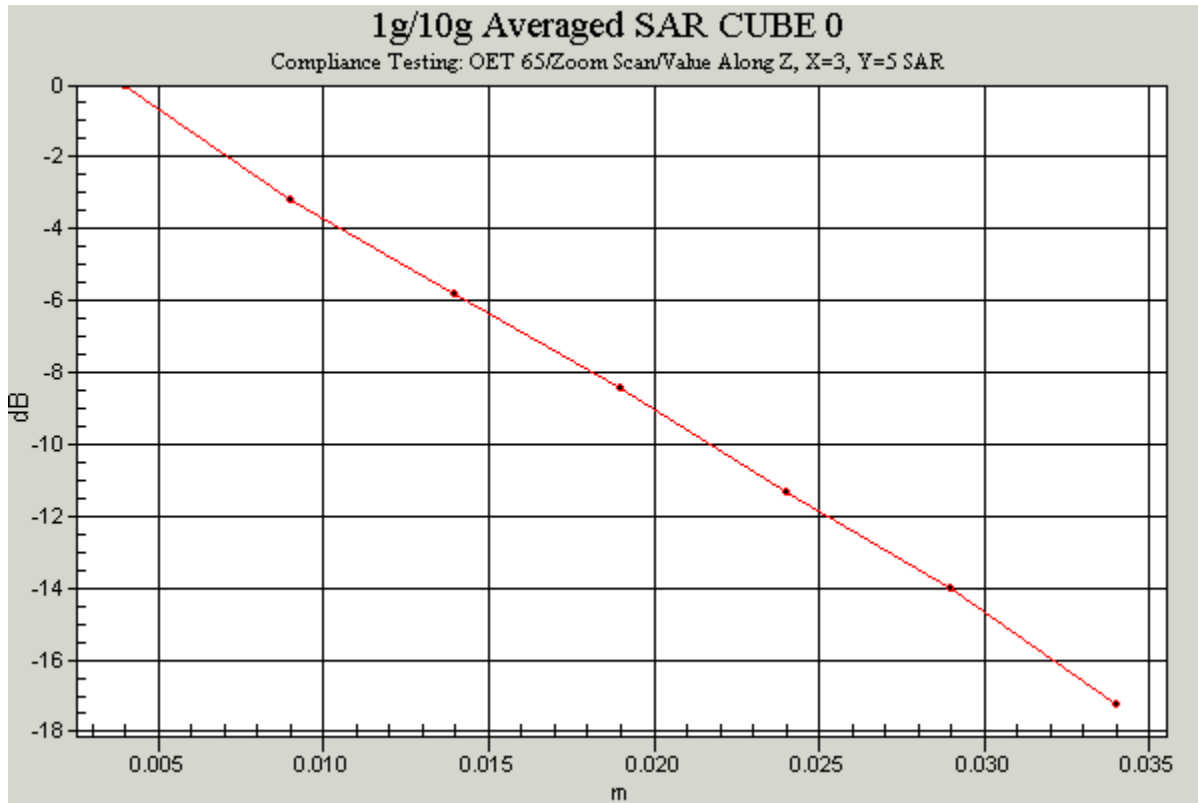
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host_Worst_Case_High

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2680 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used: $f = 2680$ MHz; $\sigma = 2.33$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$
 kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 16.3 V/m; Power Drift = -0.2 dB
 Maximum value of SAR (interpolated) = 0.697 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 16.3 V/m; Power Drift = -0.2 dB
 Maximum value of SAR (measured) = 0.845 mW/g
 Peak SAR (extrapolated) = 1.93 W/kg
SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.378 mW/g

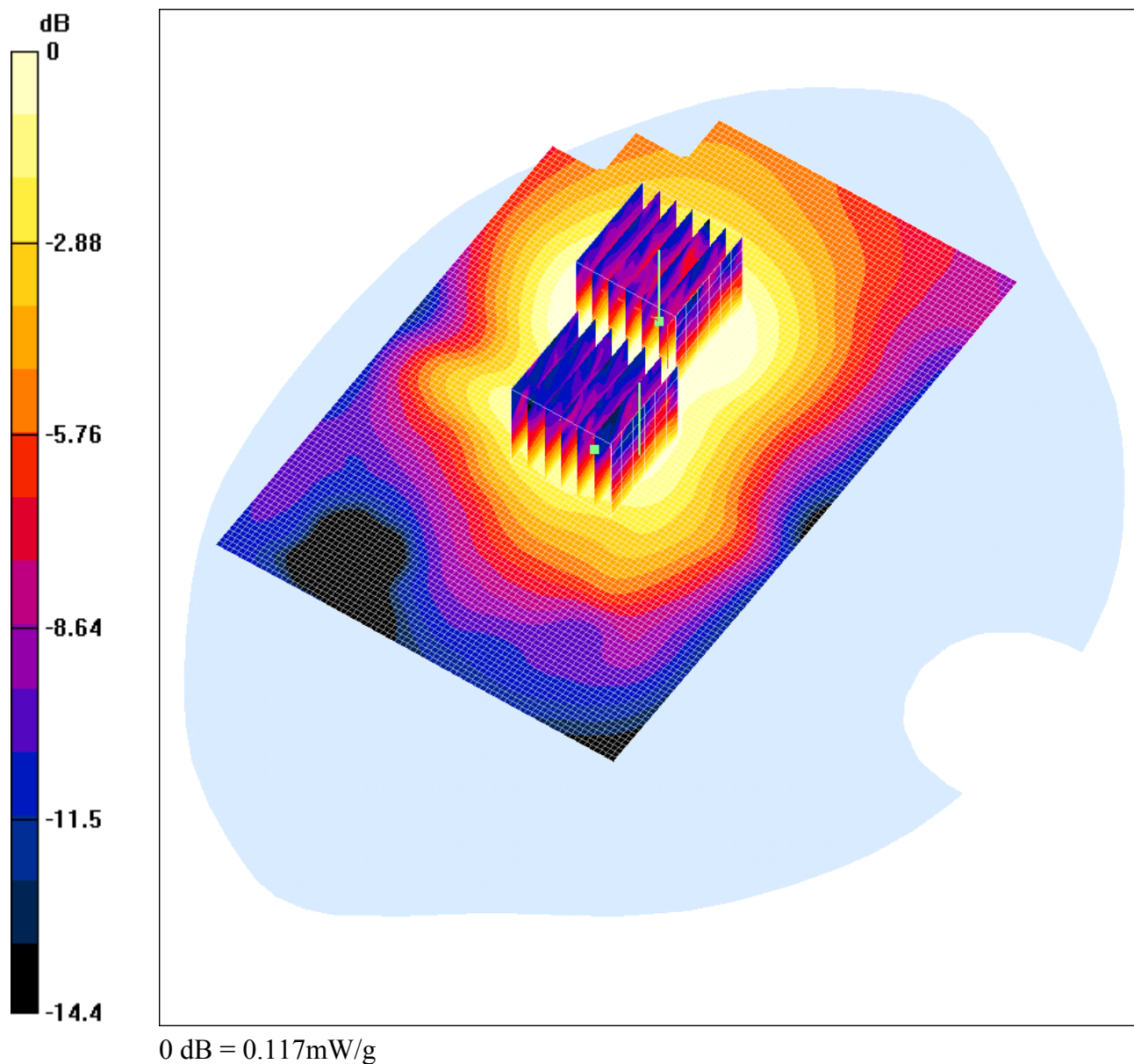
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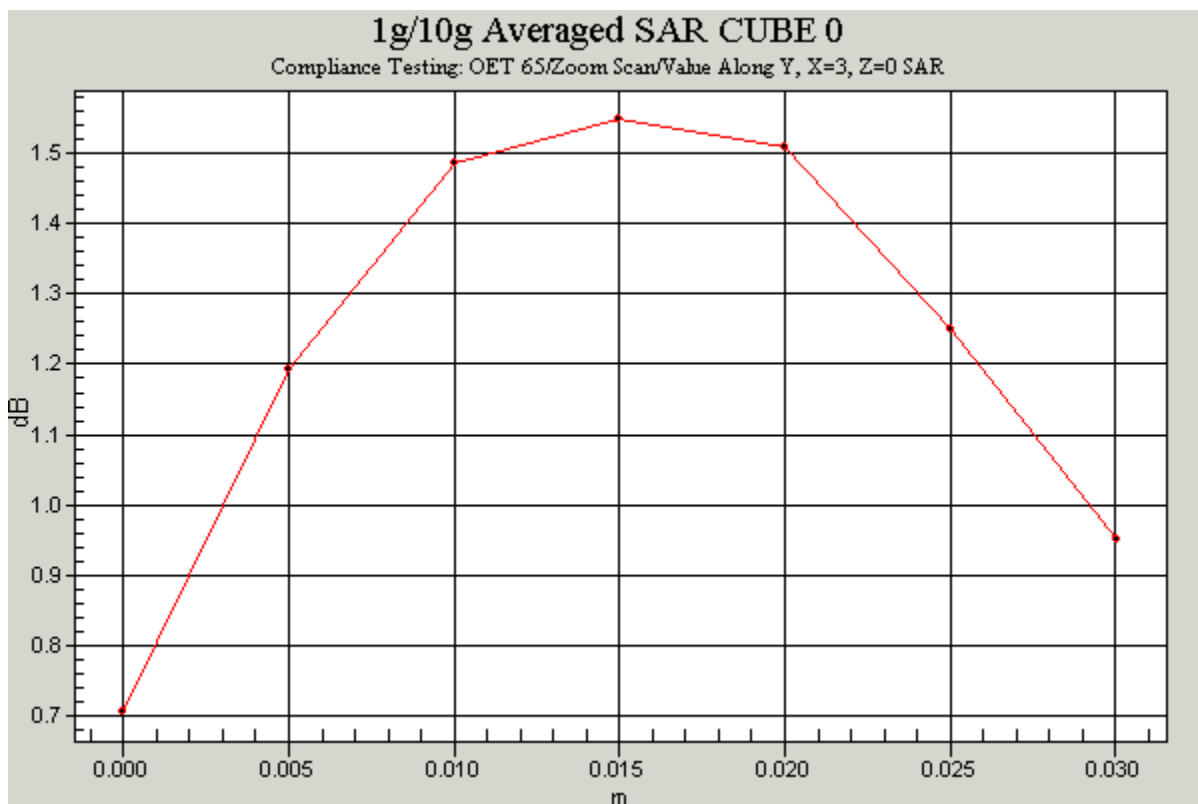
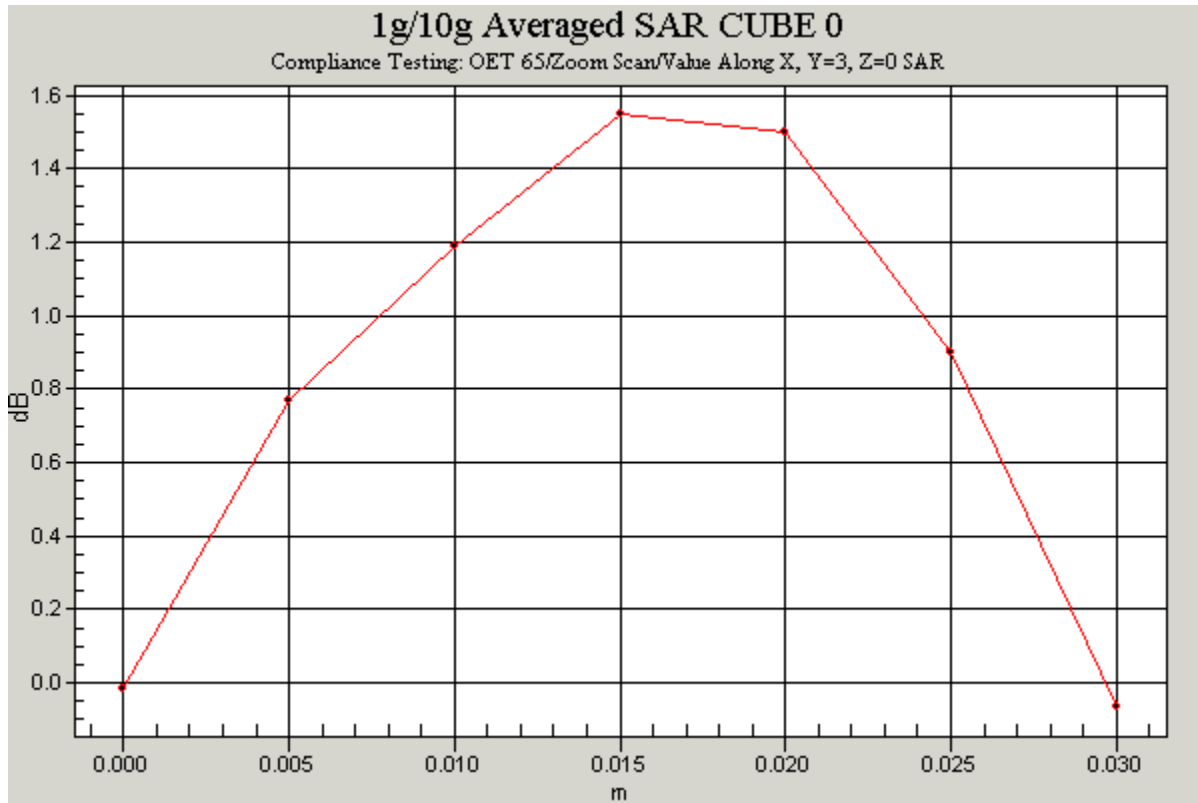
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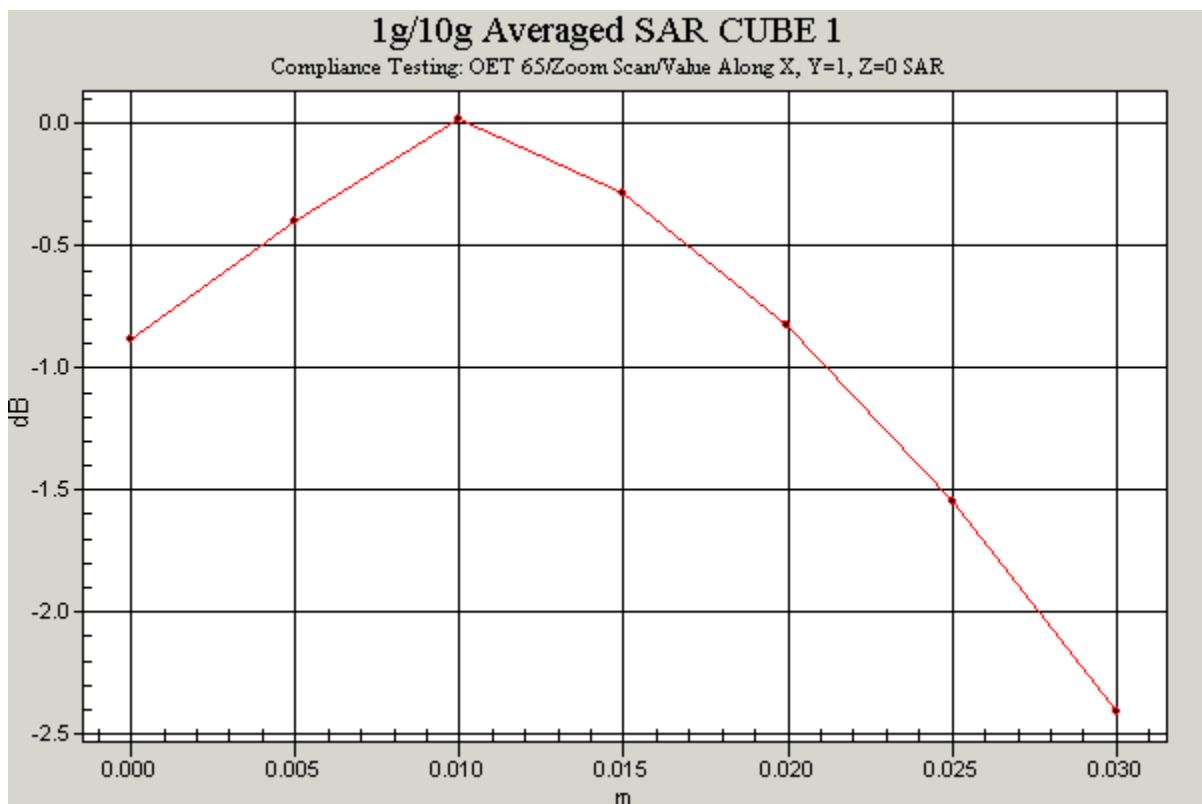
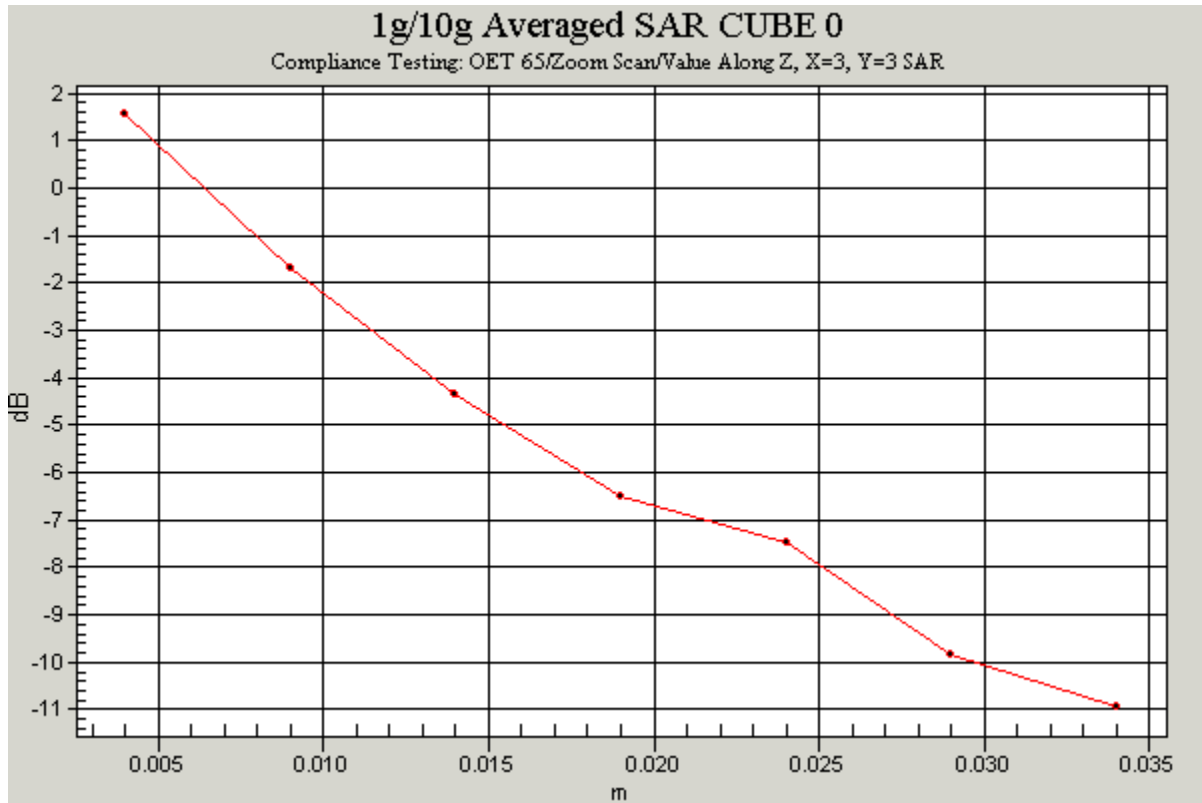
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

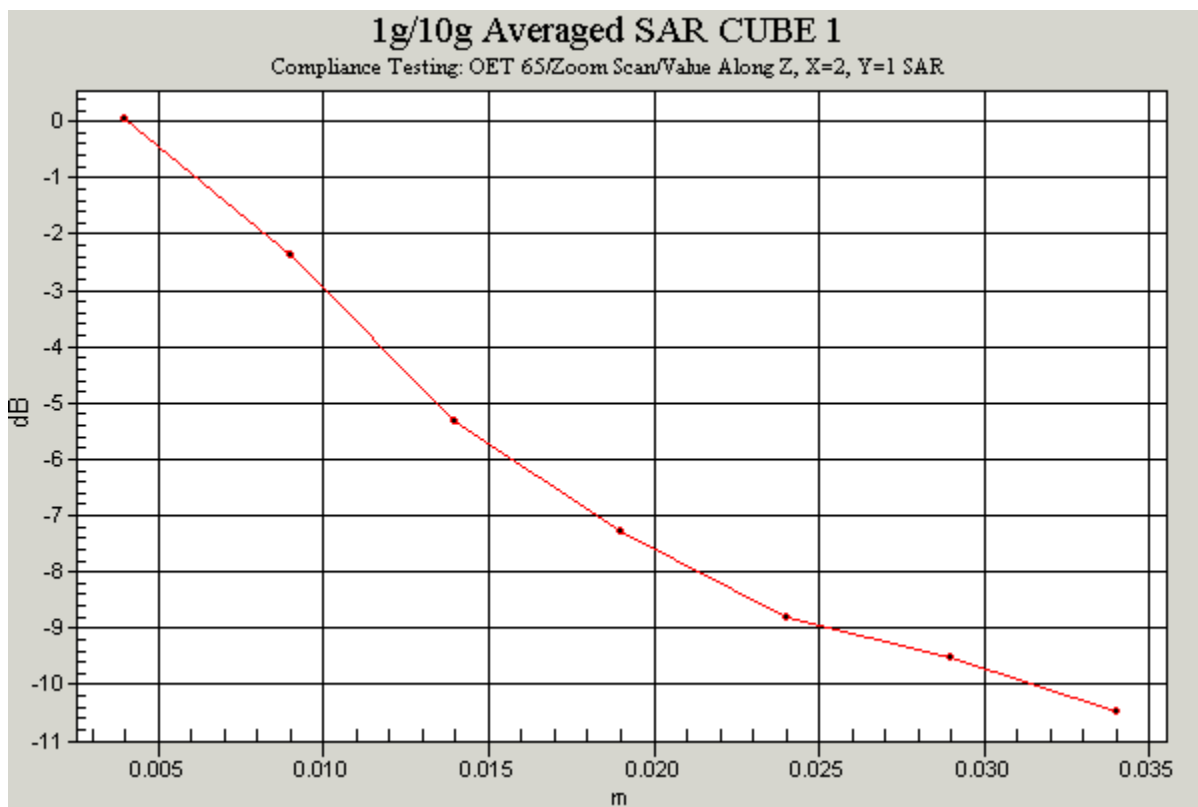
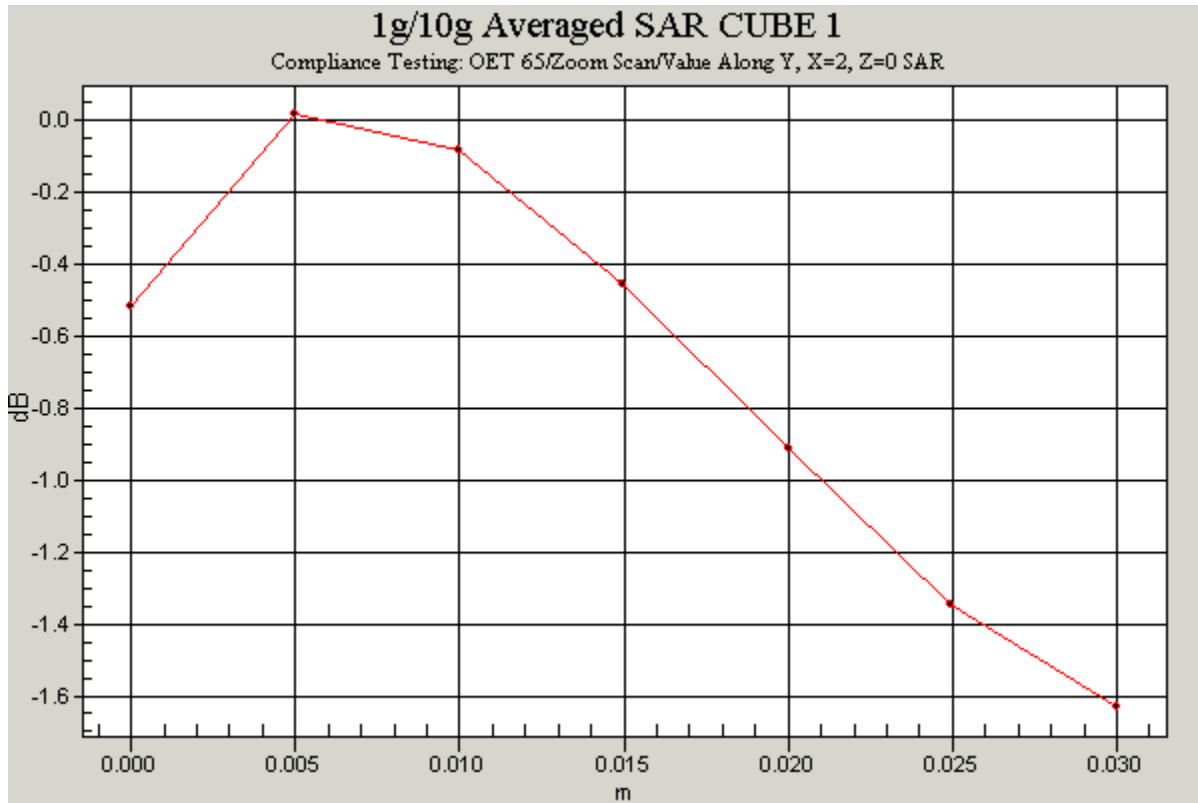
45219_JD07_Flat_Section_2600MHz_6MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Top_Slot_AcEr Host

DUT: IP Wireless UK Ltd.; Type: 6MHz Channel PCMCIA Modem; Serial: FD5D34100F213









Communication System: TDCDMA - 6MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r =$

53.6; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Area Scan (81x121x1): Measurement

grid: dx=15mm, dy=15mm

Reference Value = 5.52 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.168 mW/g

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.167 mW/g

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.089 mW/g

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.117 mW/g

Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.061 mW/g

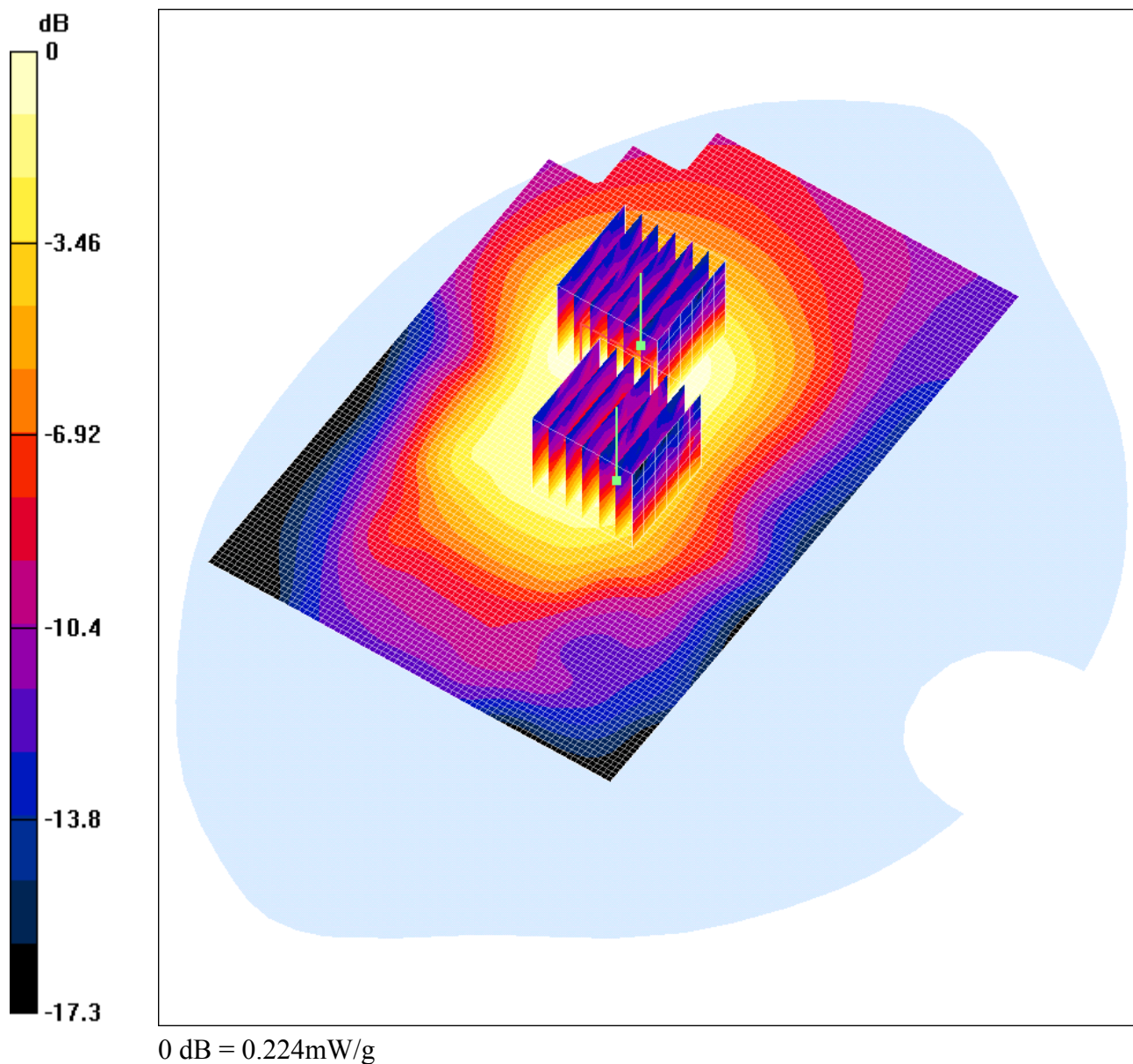
Date: 22/07/04

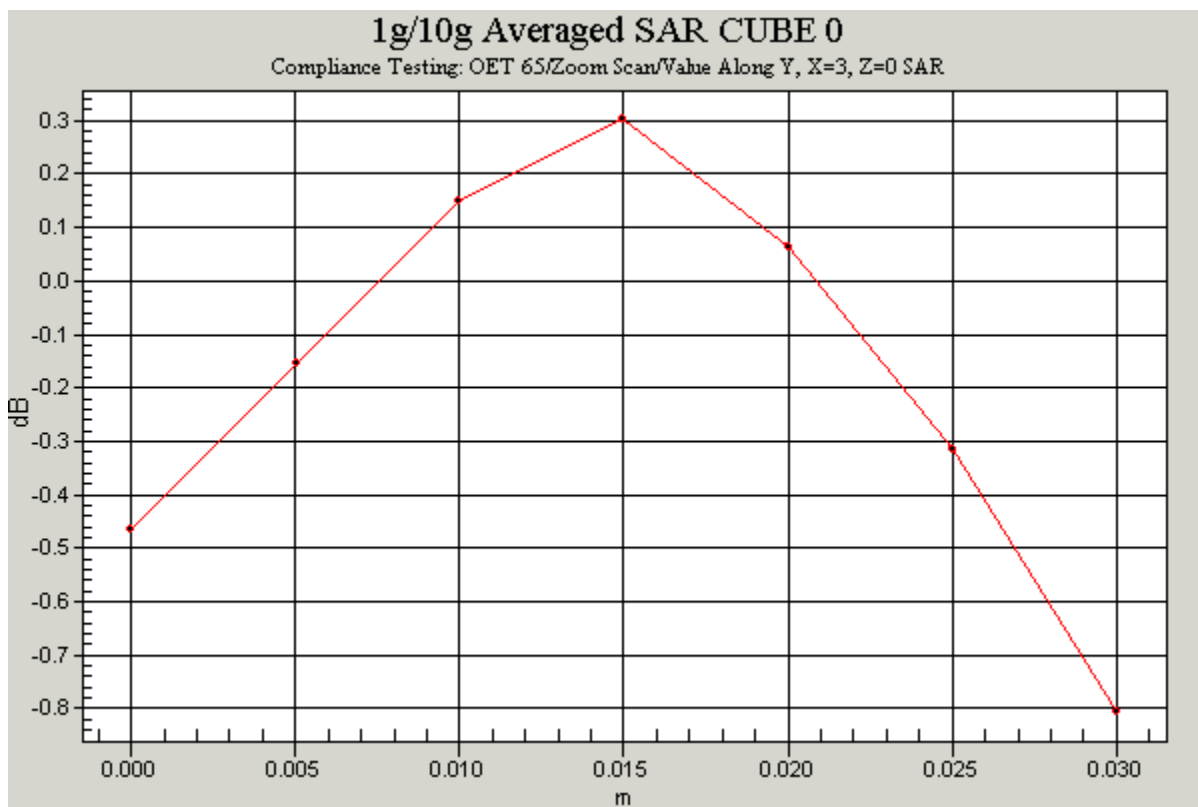
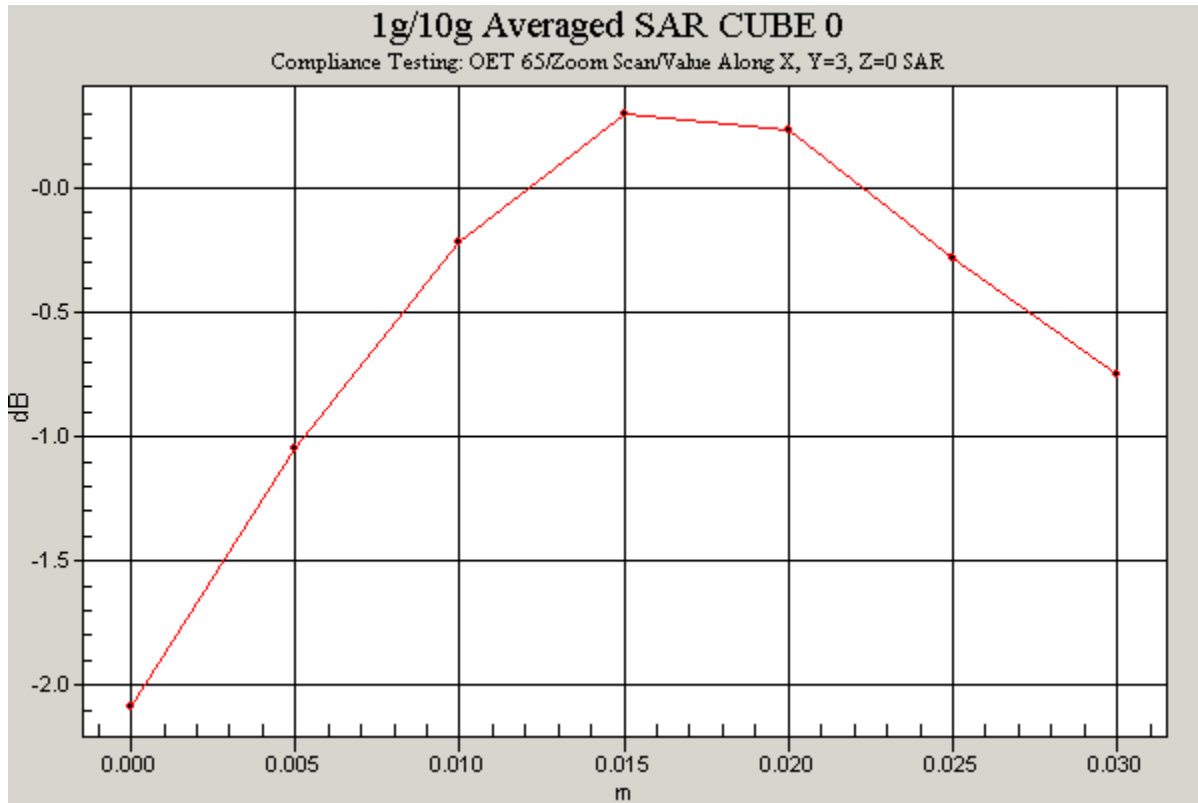
45219/07/007

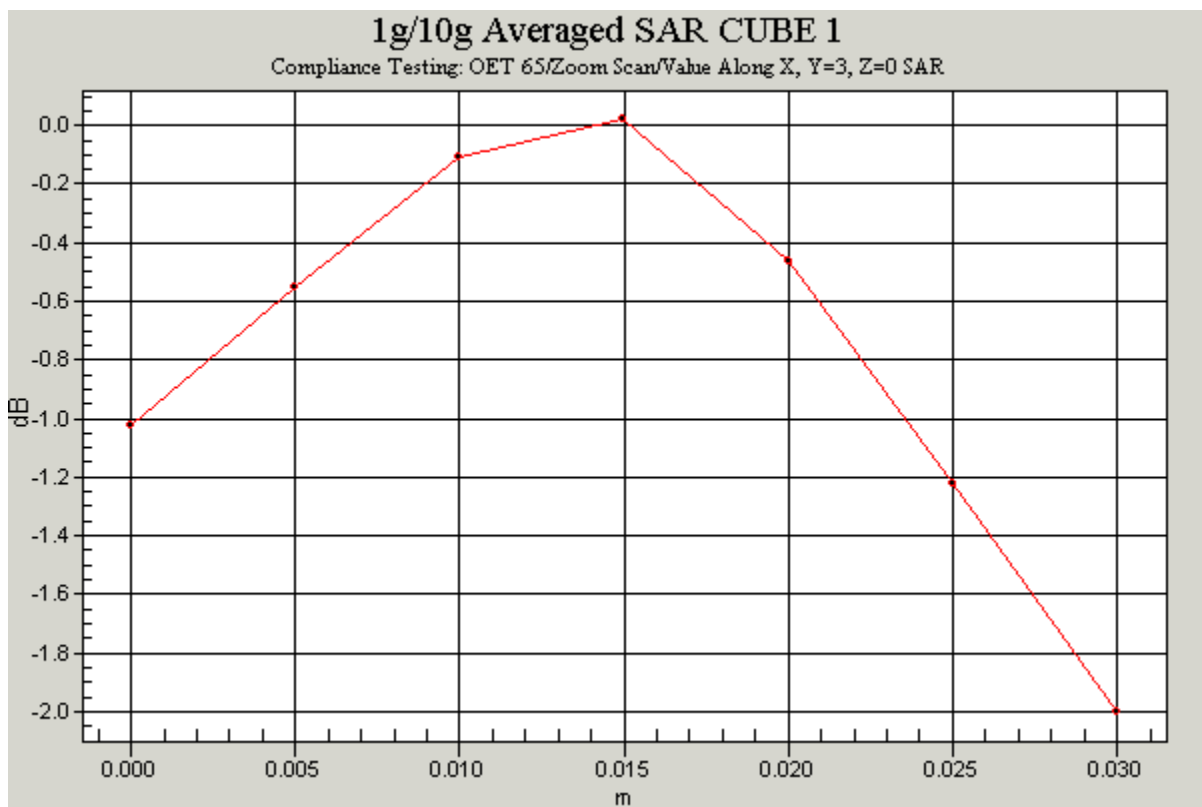
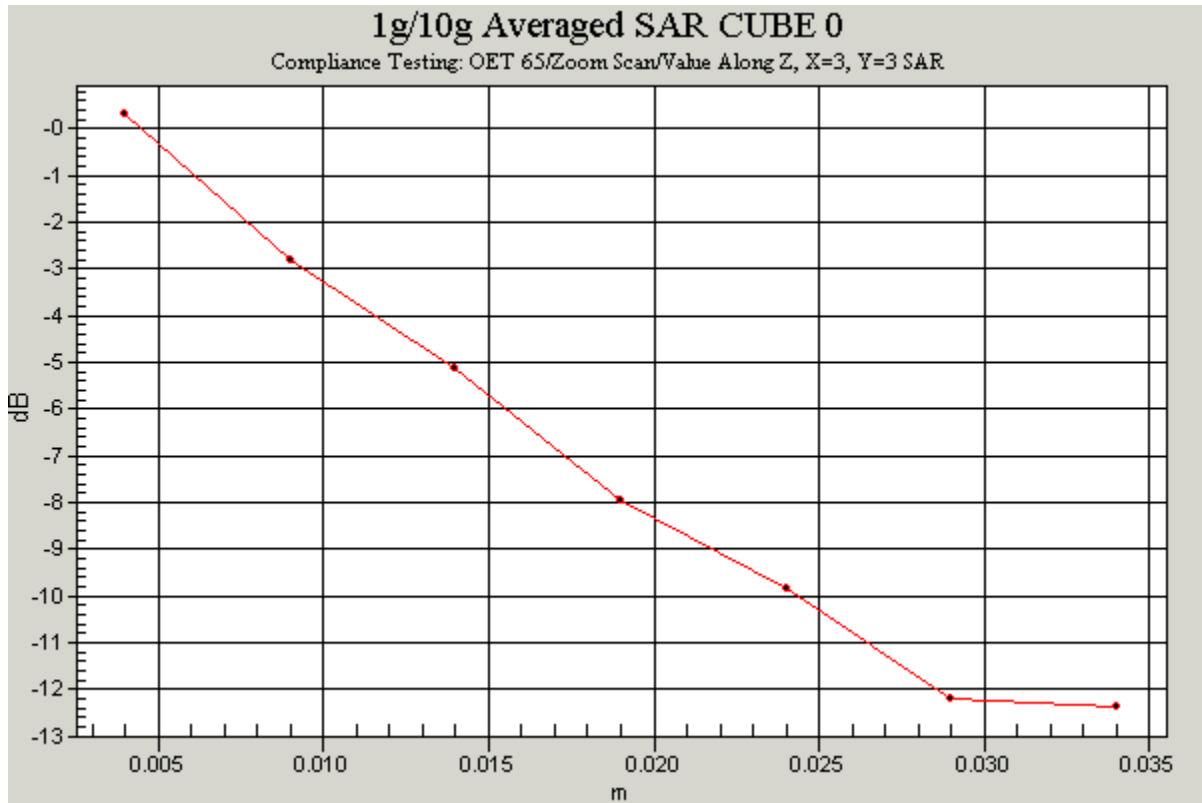
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

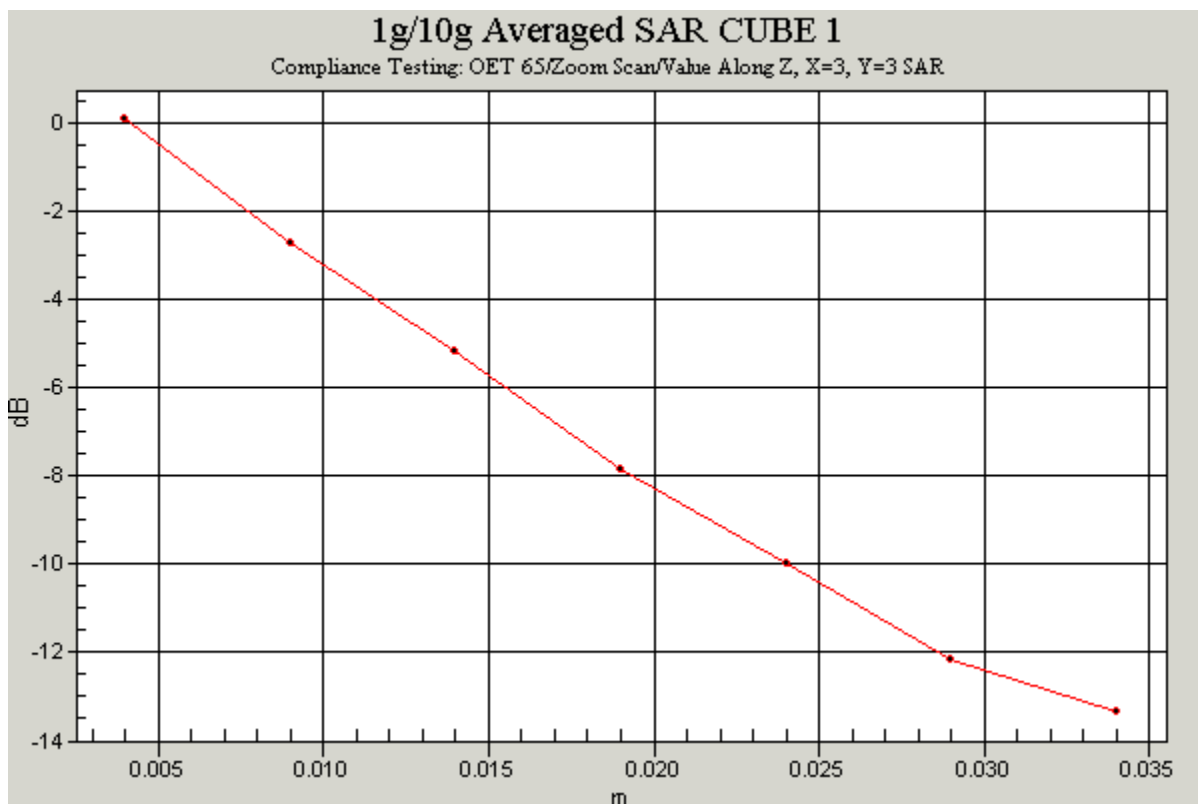
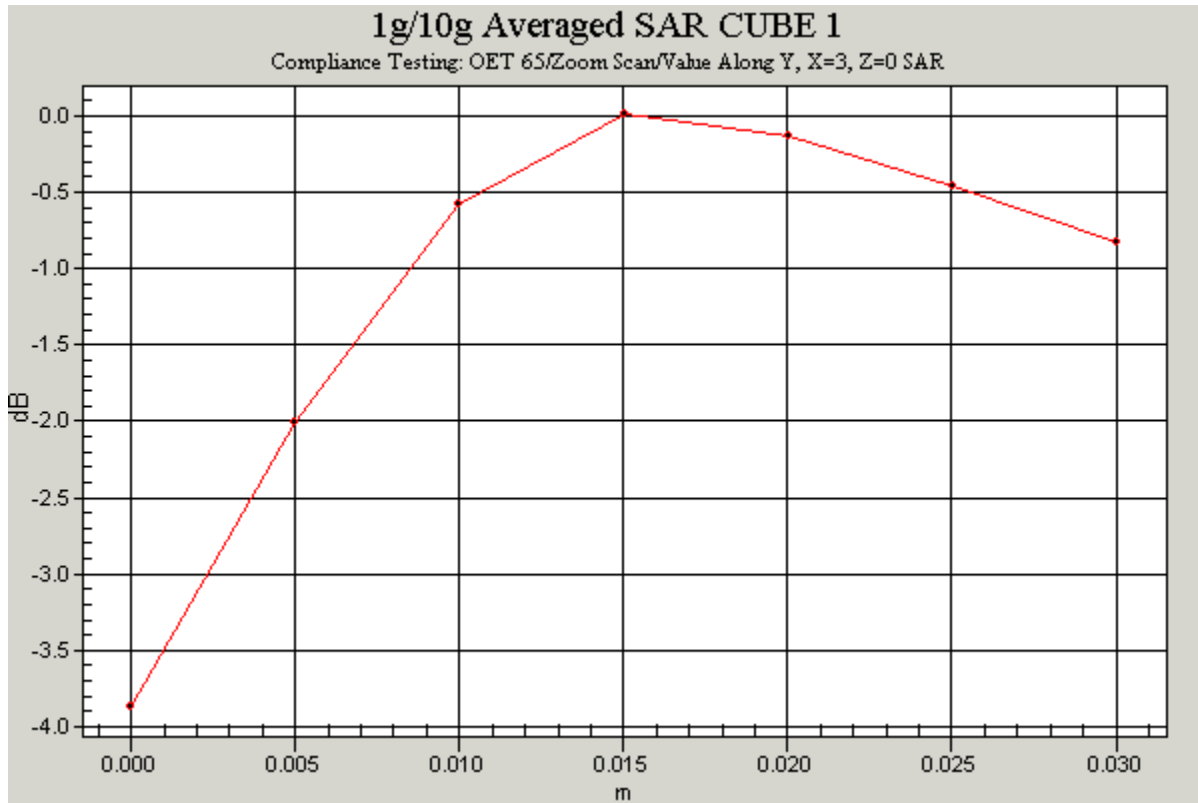
45219_JD07_Flat_Section_2600MHz_6MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host

DUT: IP Wireless UK Ltd.; Type: 6MHz Channel PCMCIA Modem; Serial: FD5D34100F213









Communication System: TDCDMA - 6MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r =$

53.6; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.41 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.229 mW/g

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.41 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.240 mW/g

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.125 mW/g

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 1:

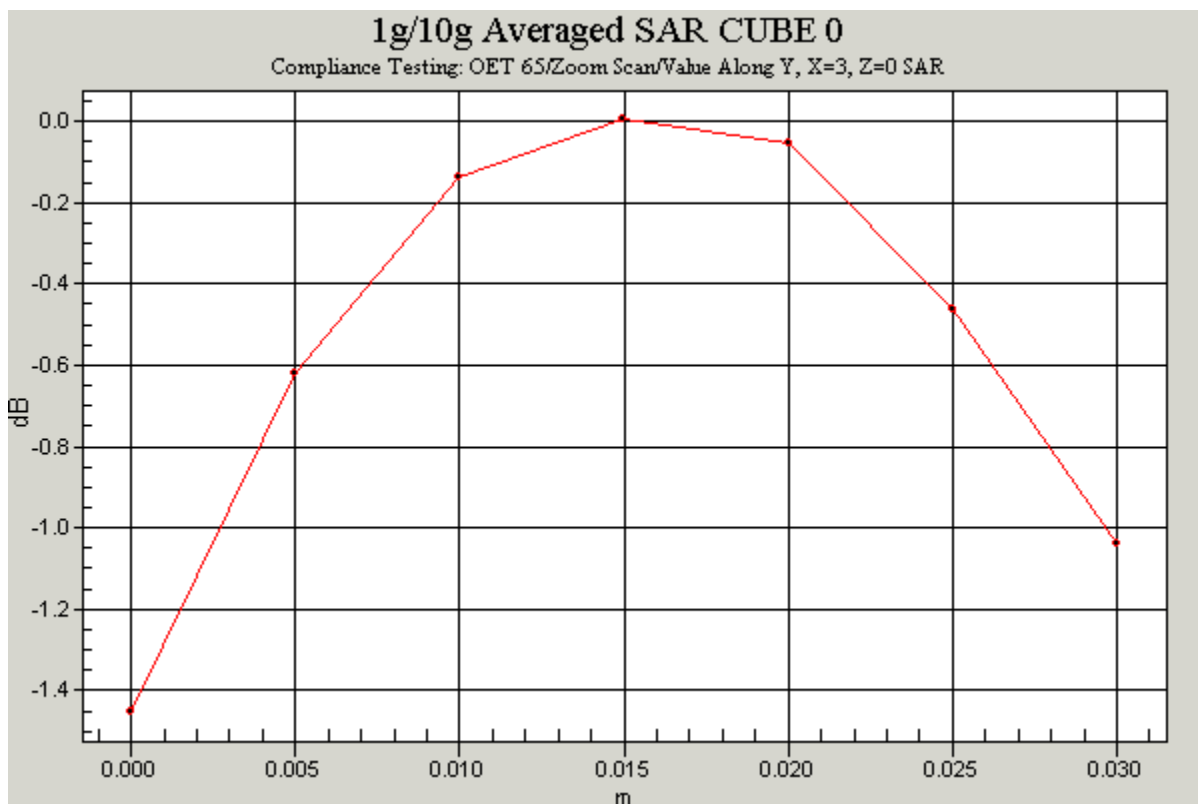
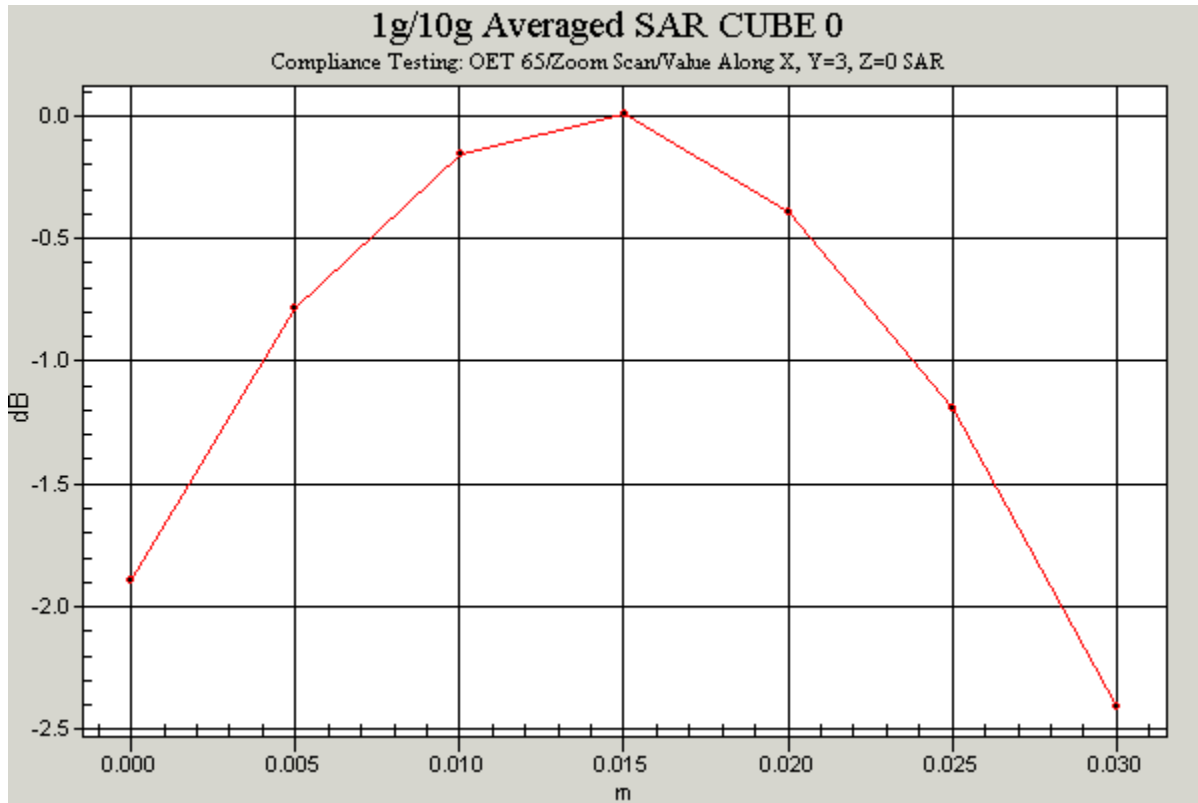
Measurement grid: dx=5mm, dy=5mm, dz=5mm

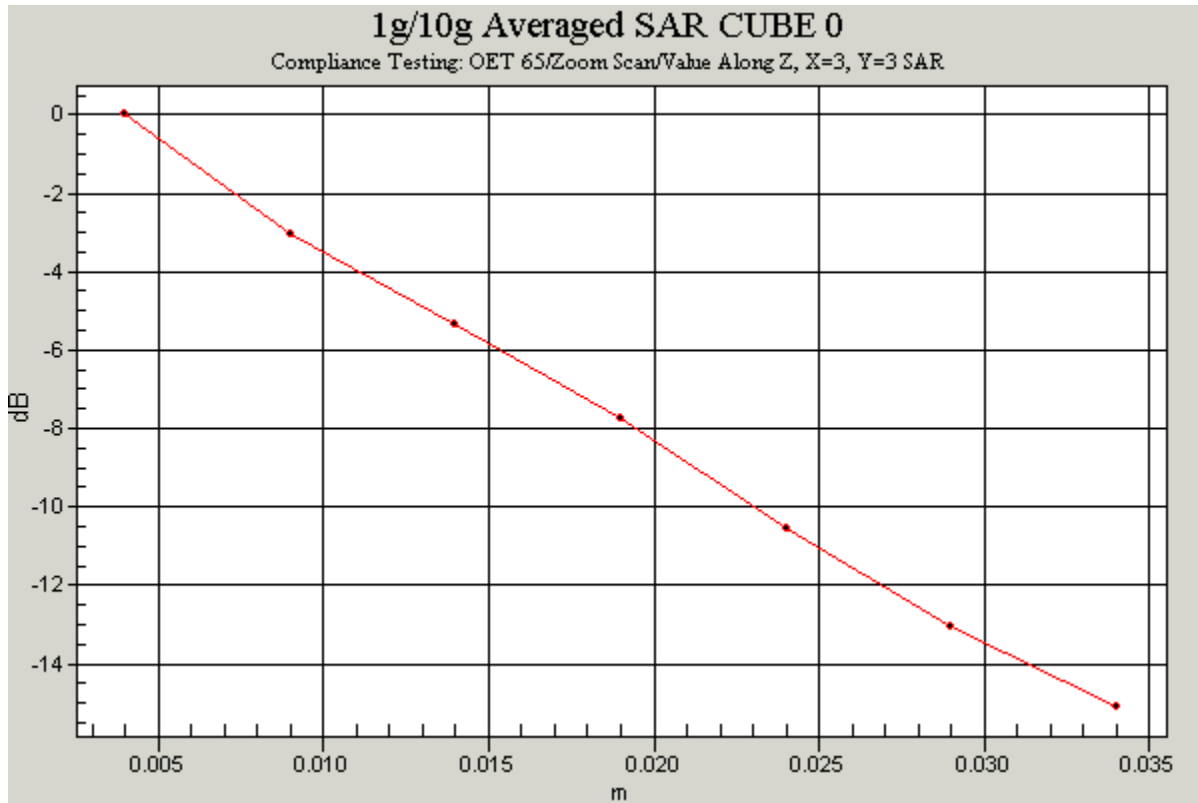
Reference Value = 5.41 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.224 mW/g

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.117 mW/g





Communication System: TDCDMA - 6MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 12.5 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (interpolated) = 0.366 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 12.5 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (measured) = 0.358 mW/g
 Peak SAR (extrapolated) = 0.767 W/kg
SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.187 mW/g

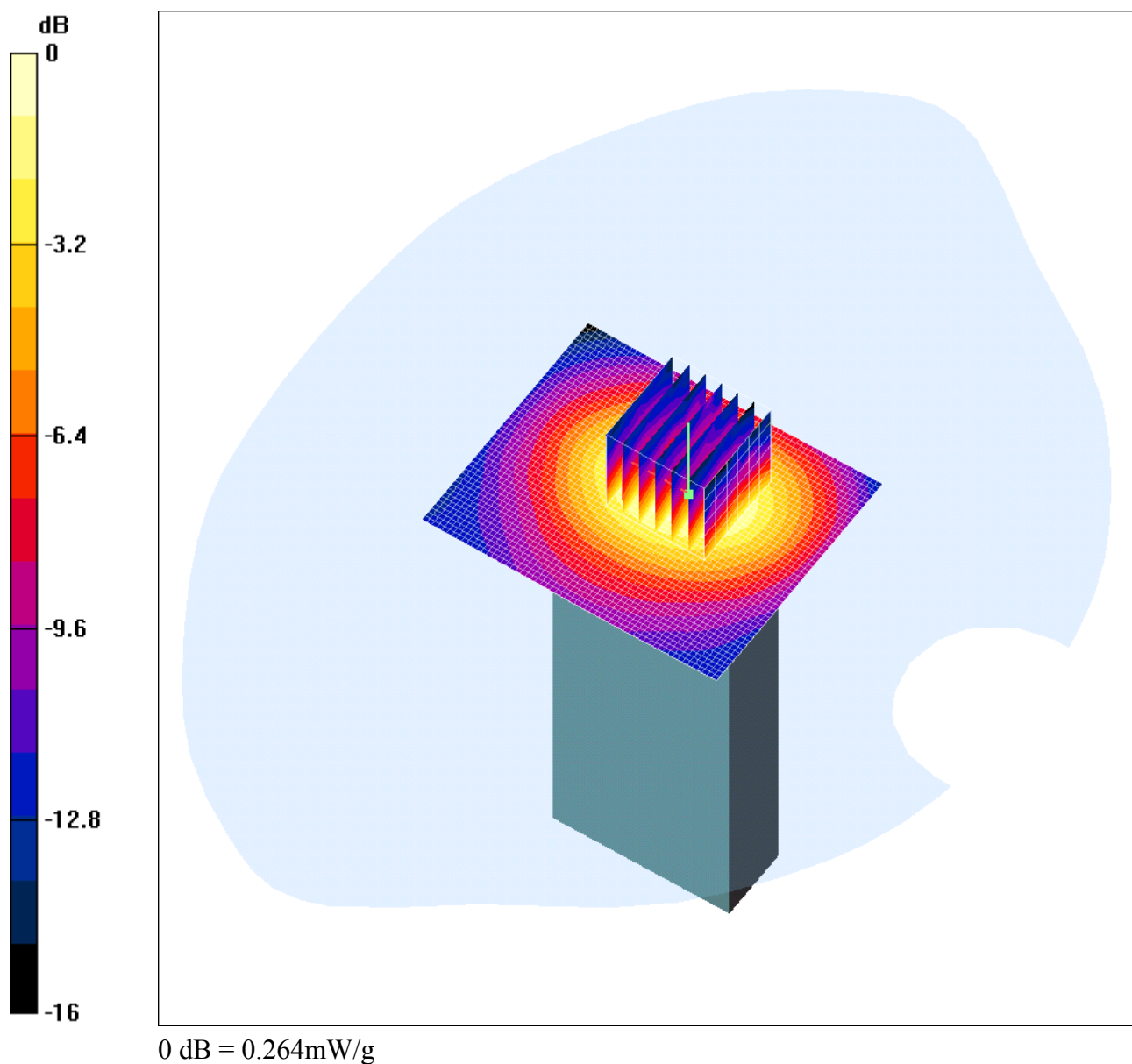
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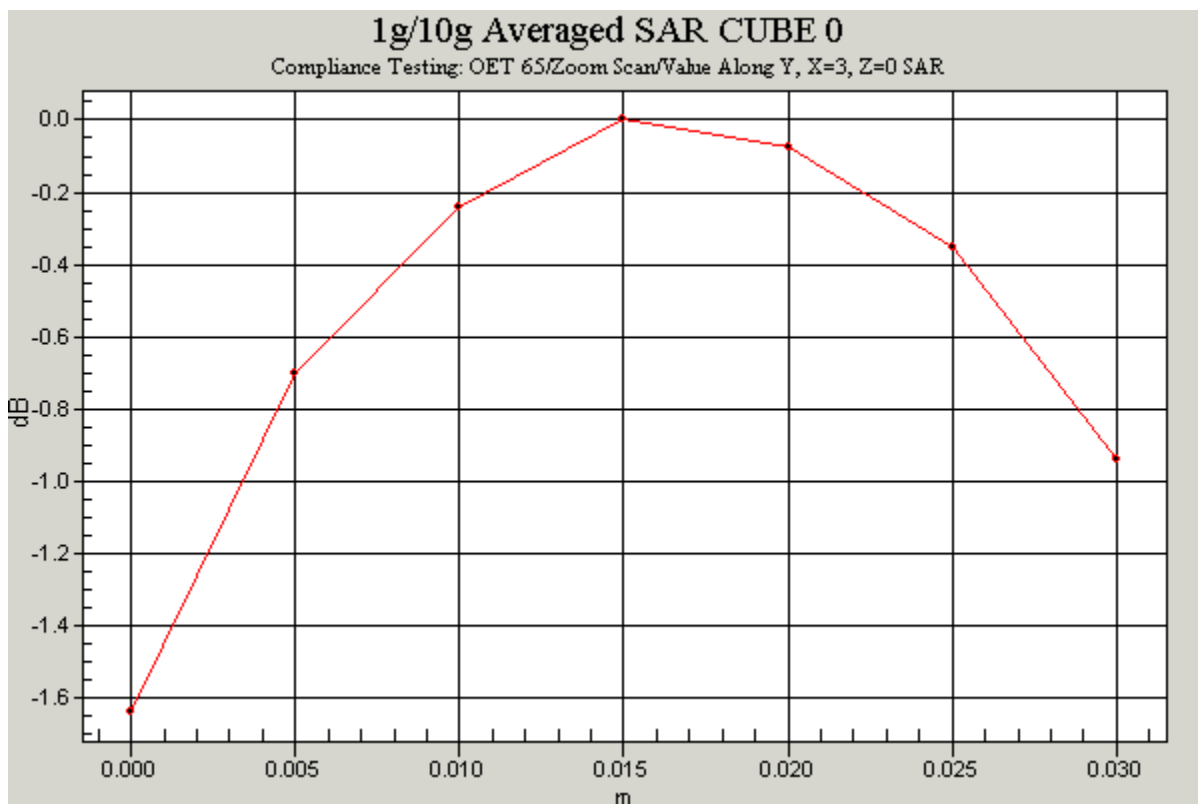
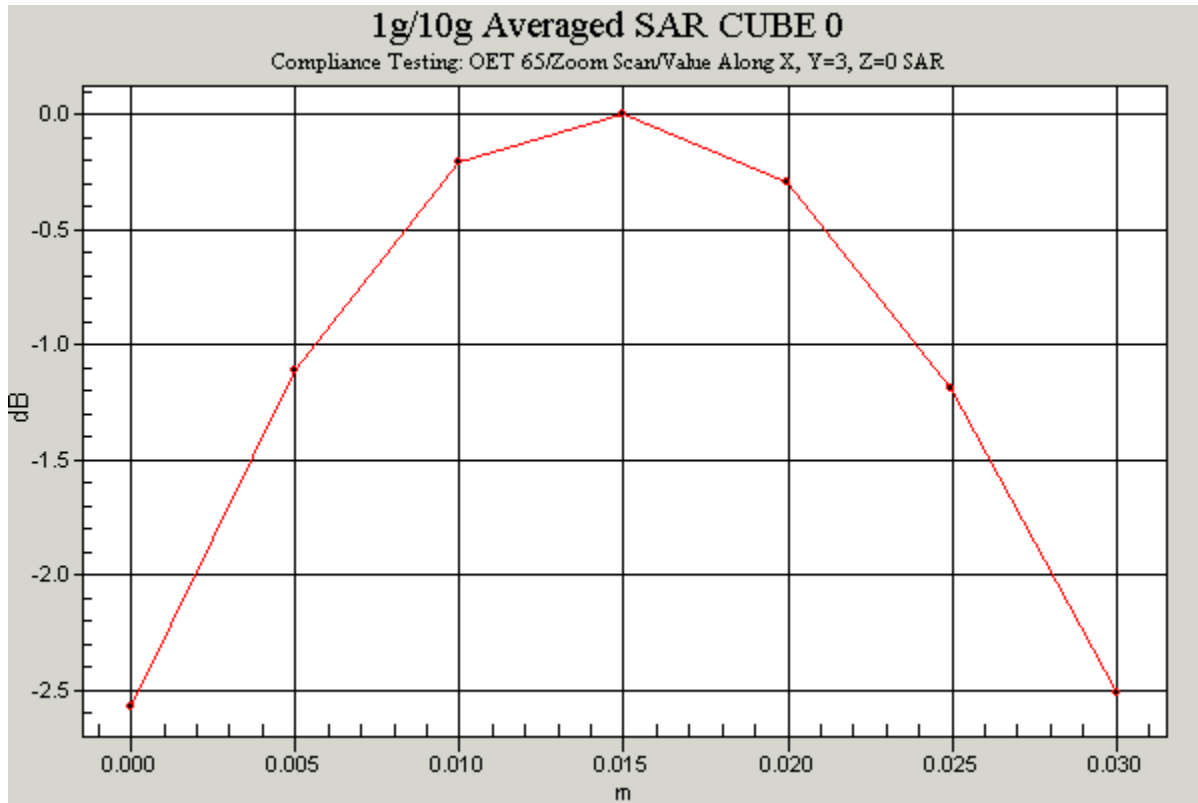
45219/07/009

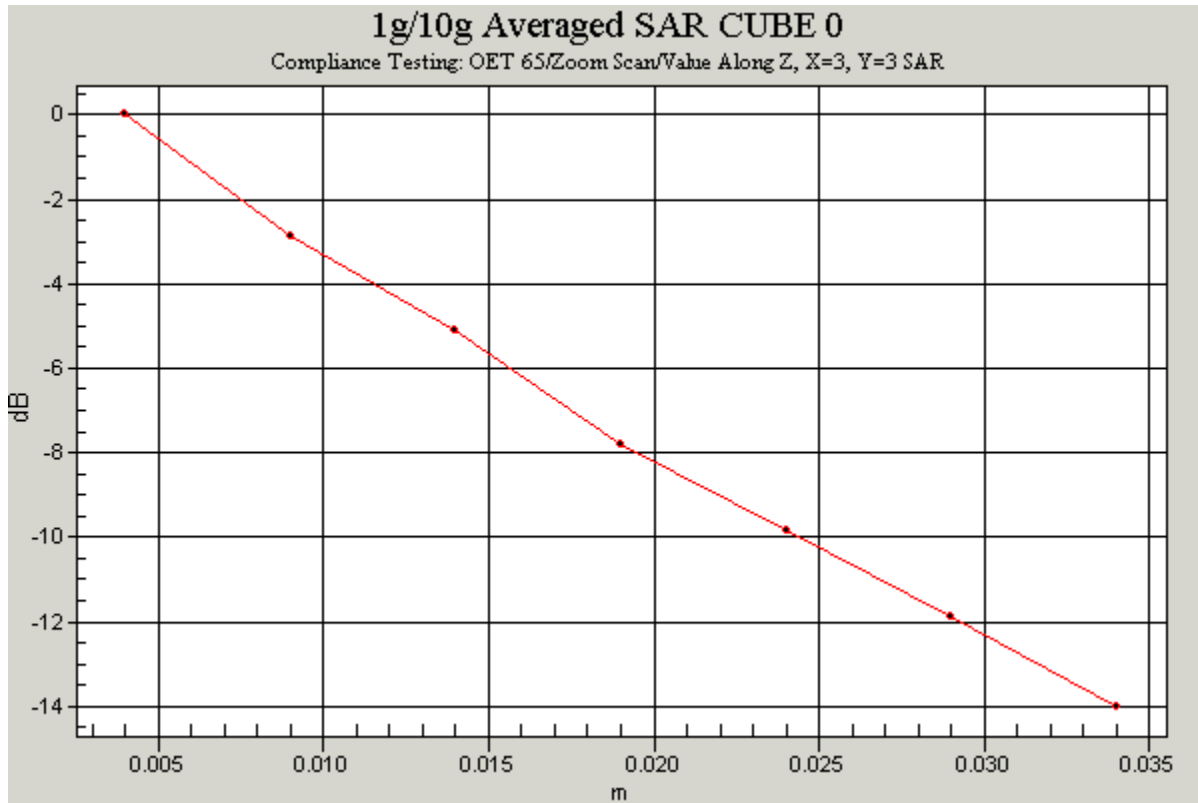
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_6MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_AcEr Host_Worst_Case_Low

DUT: IP Wireless UK Ltd.; Type: 6MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 6MHz Channel; Frequency: 2503 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2503$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 10.3 V/m; Power Drift = -0.005 dB
 Maximum value of SAR (interpolated) = 0.272 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 10.3 V/m; Power Drift = -0.005 dB
 Maximum value of SAR (measured) = 0.264 mW/g
 Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.138 mW/g

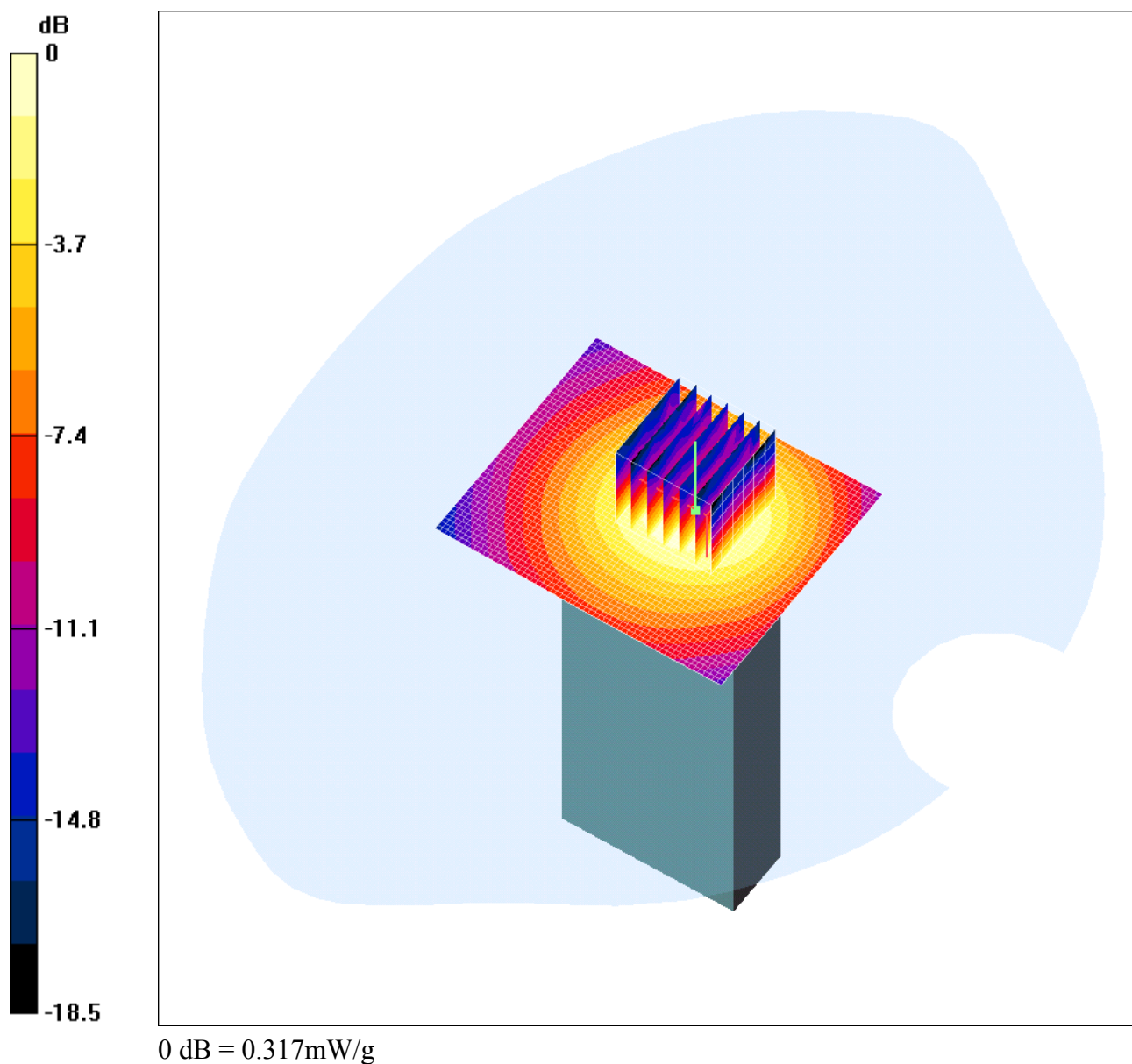
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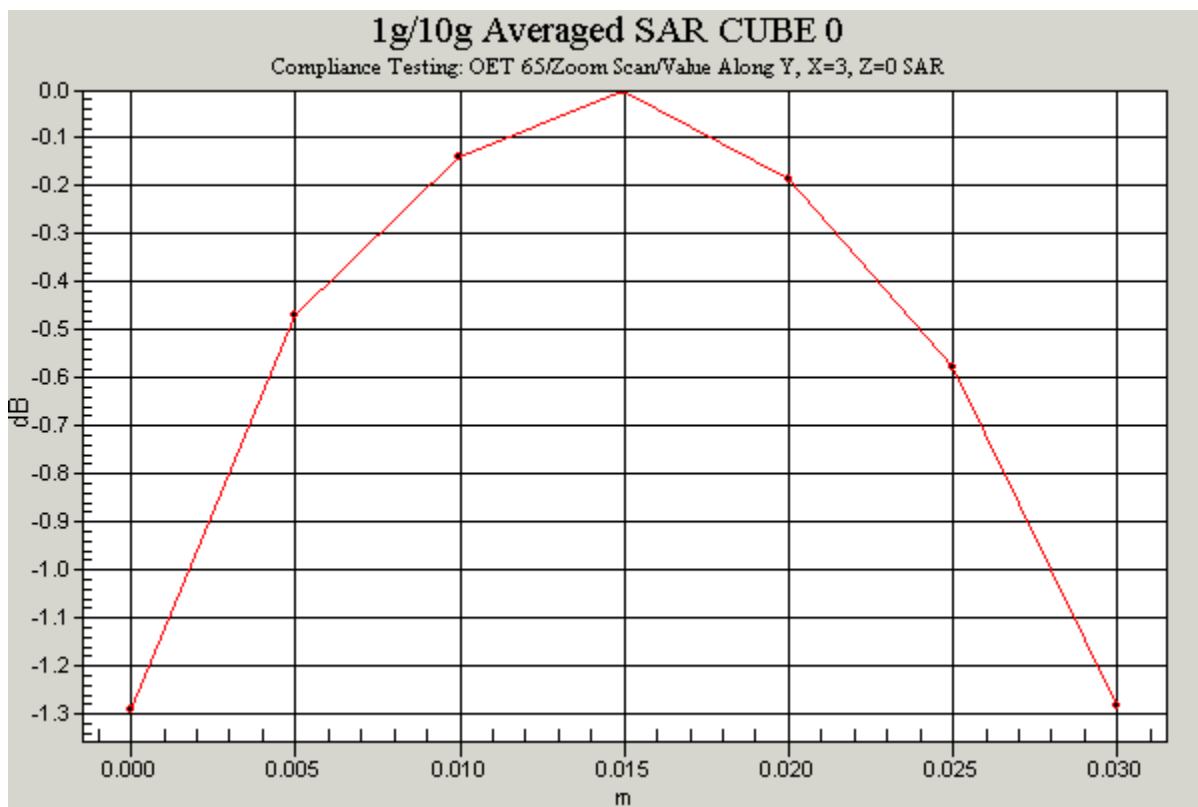
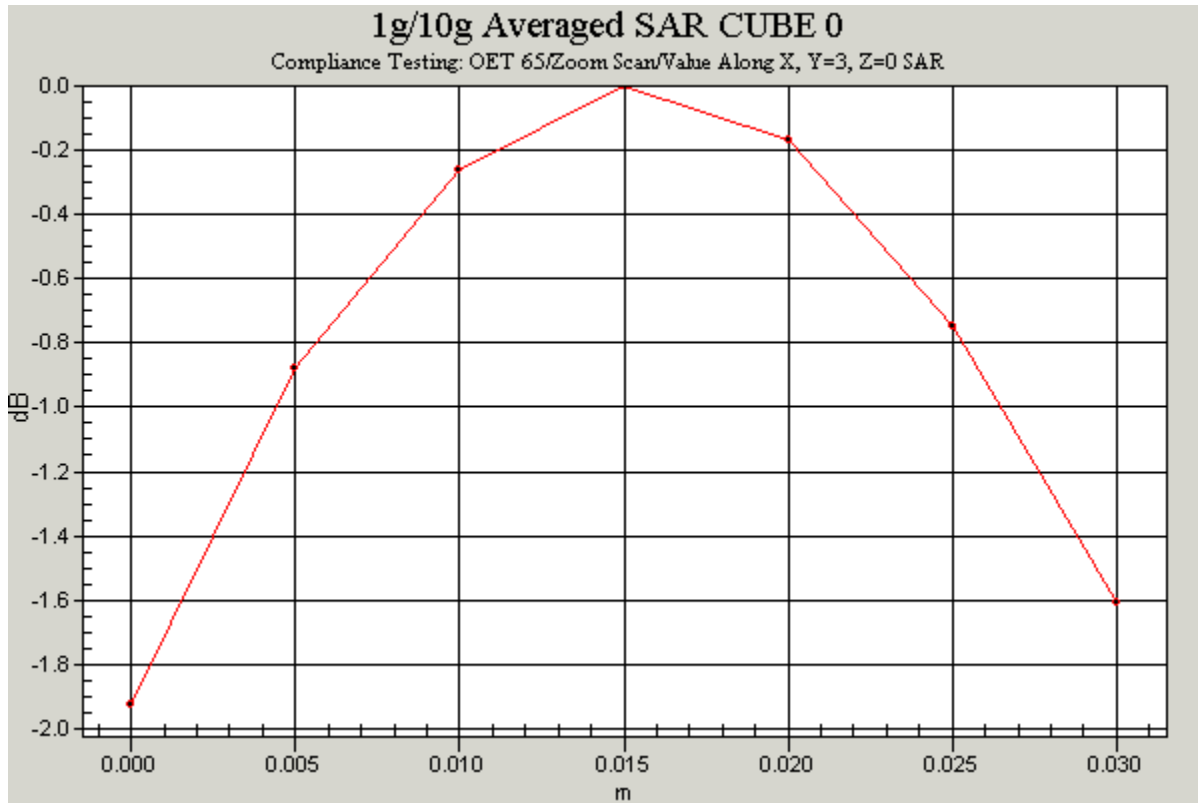
45219/07/010

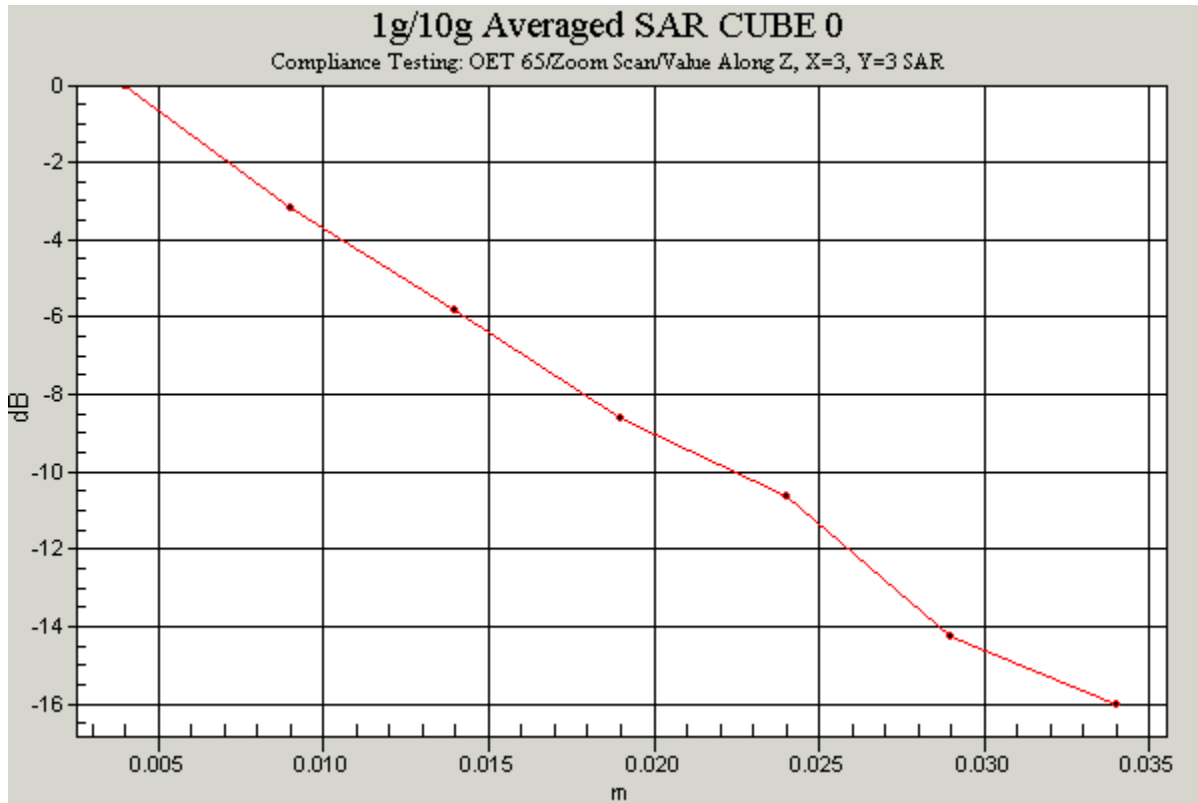
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_6MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_ACer Host_Worst_Case_High

DUT: IP Wireless UK Ltd.; Type: 6MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 6MHz Channel; Frequency: 2683 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2683$ MHz; $\sigma = 2.34$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 11.4 V/m; Power Drift = -0.1 dB
 Maximum value of SAR (interpolated) = 0.327 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 11.4 V/m; Power Drift = -0.1 dB
 Maximum value of SAR (measured) = 0.317 mW/g
 Peak SAR (extrapolated) = 0.671 W/kg
SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.163 mW/g

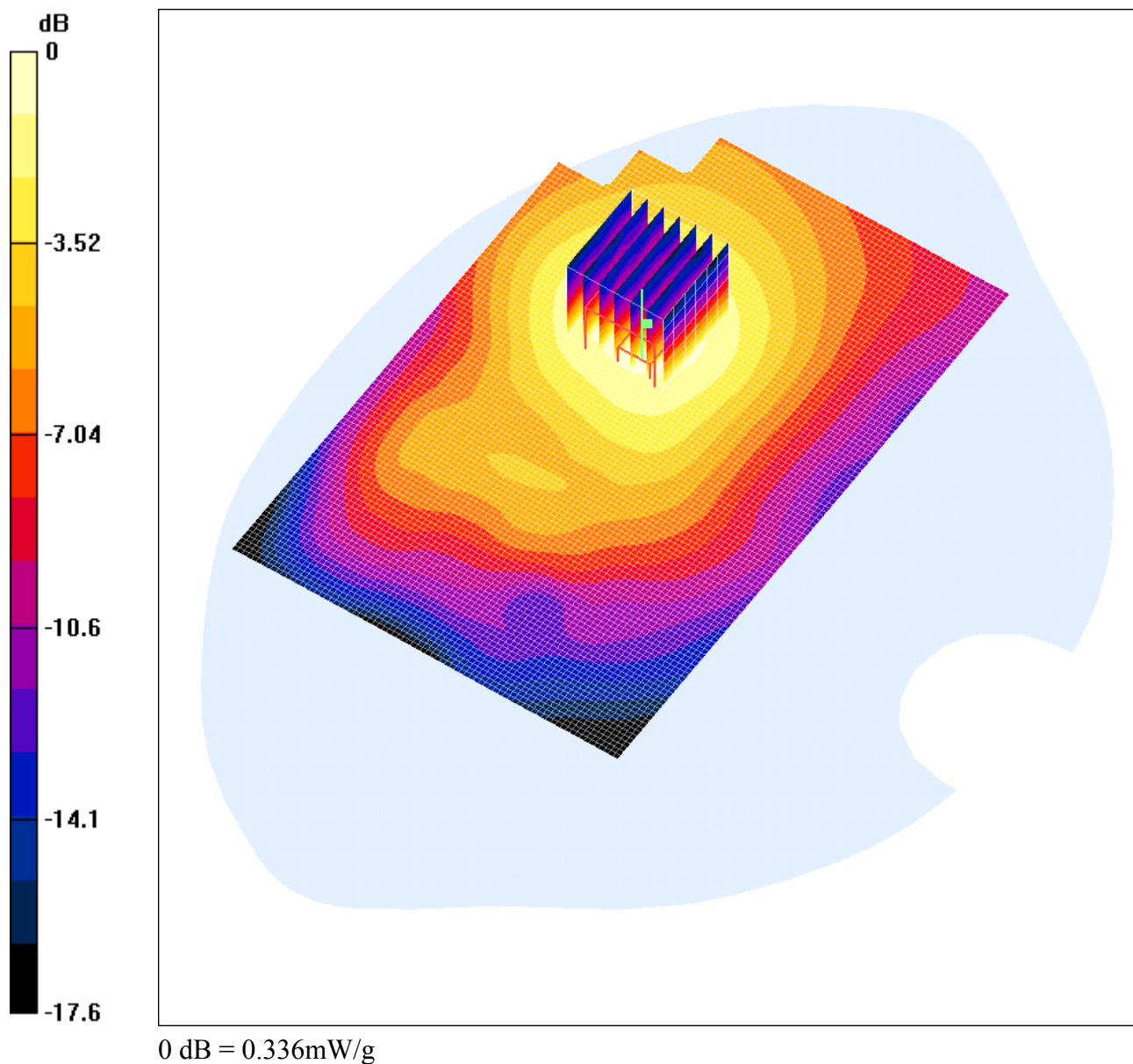
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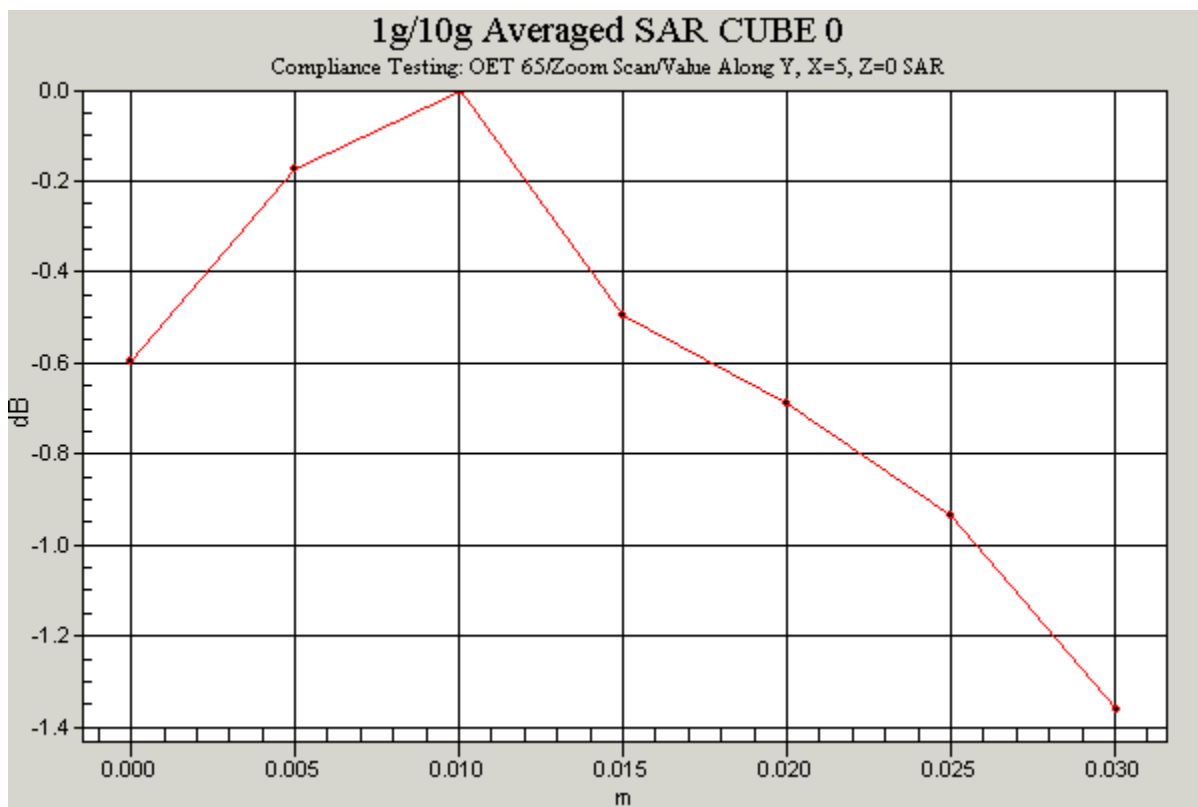
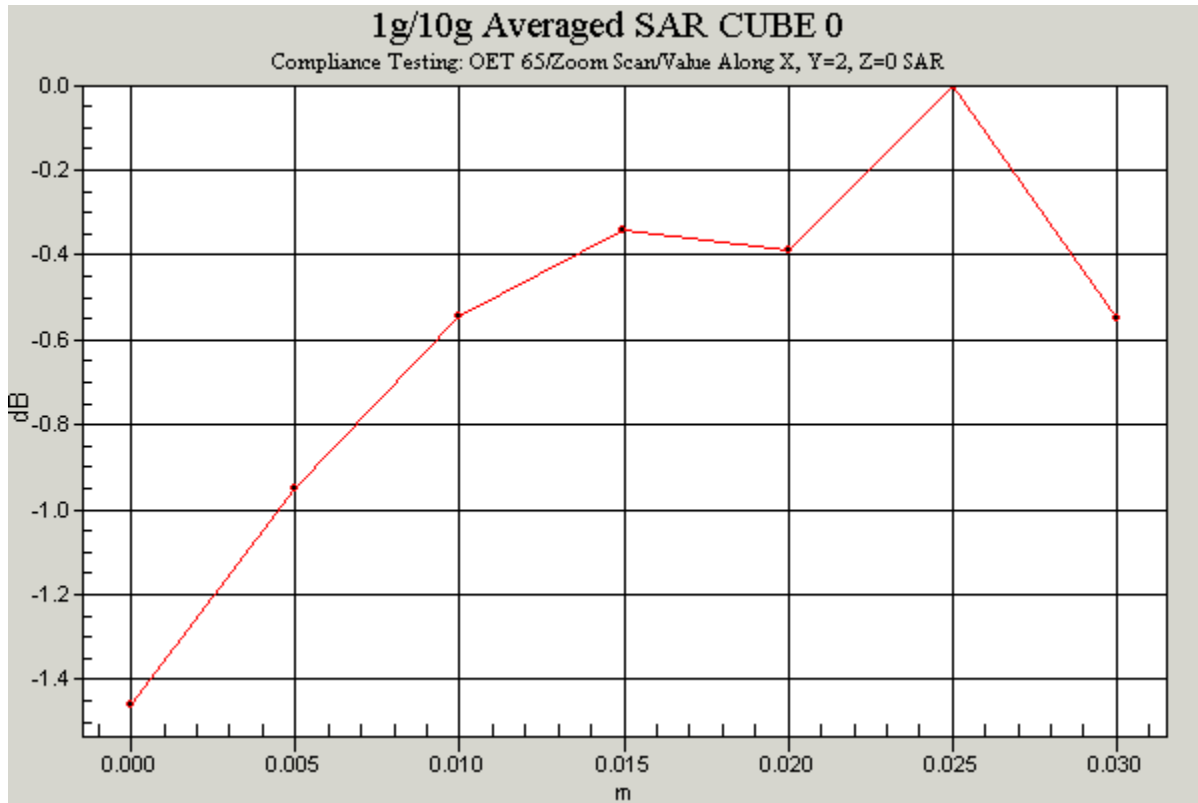
45219/07/011

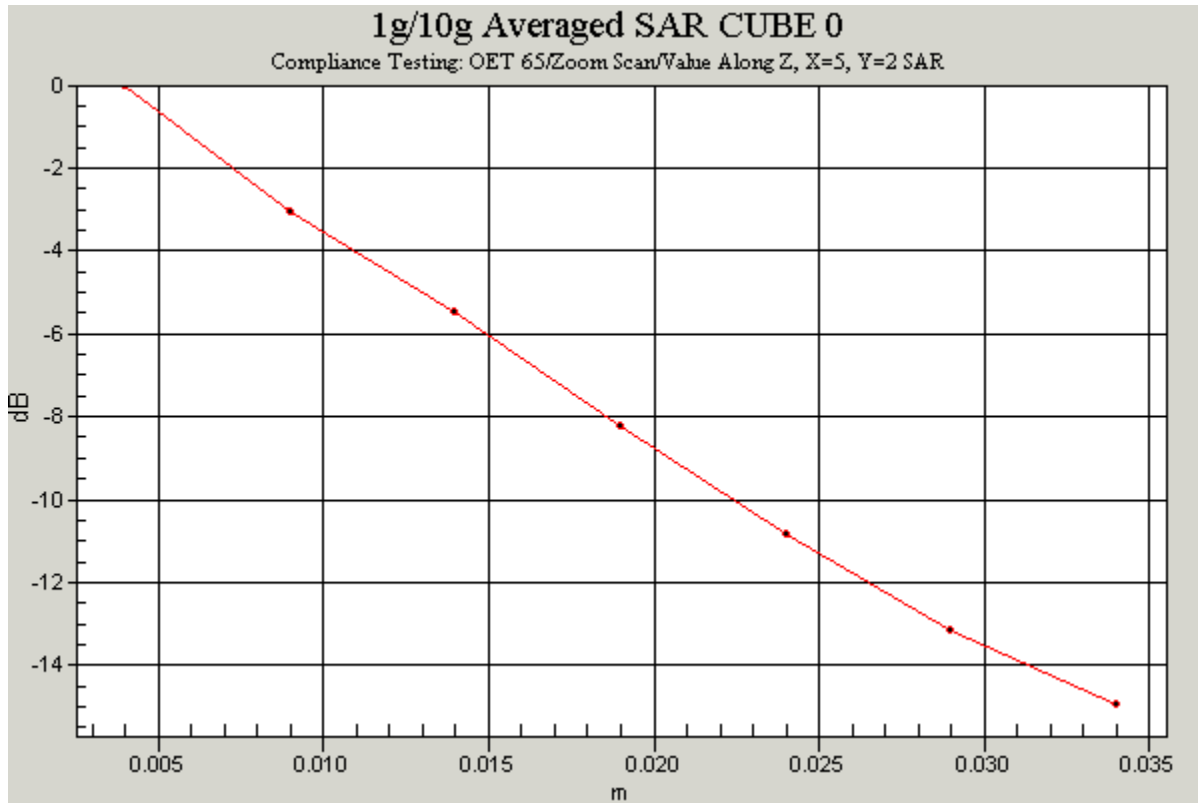
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Top_Slot_UMAX Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.1 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.313 mW/g

0 Degrees to Phantom, PCMCIA Modem in Top Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.1 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.336 mW/g

Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.177 mW/g

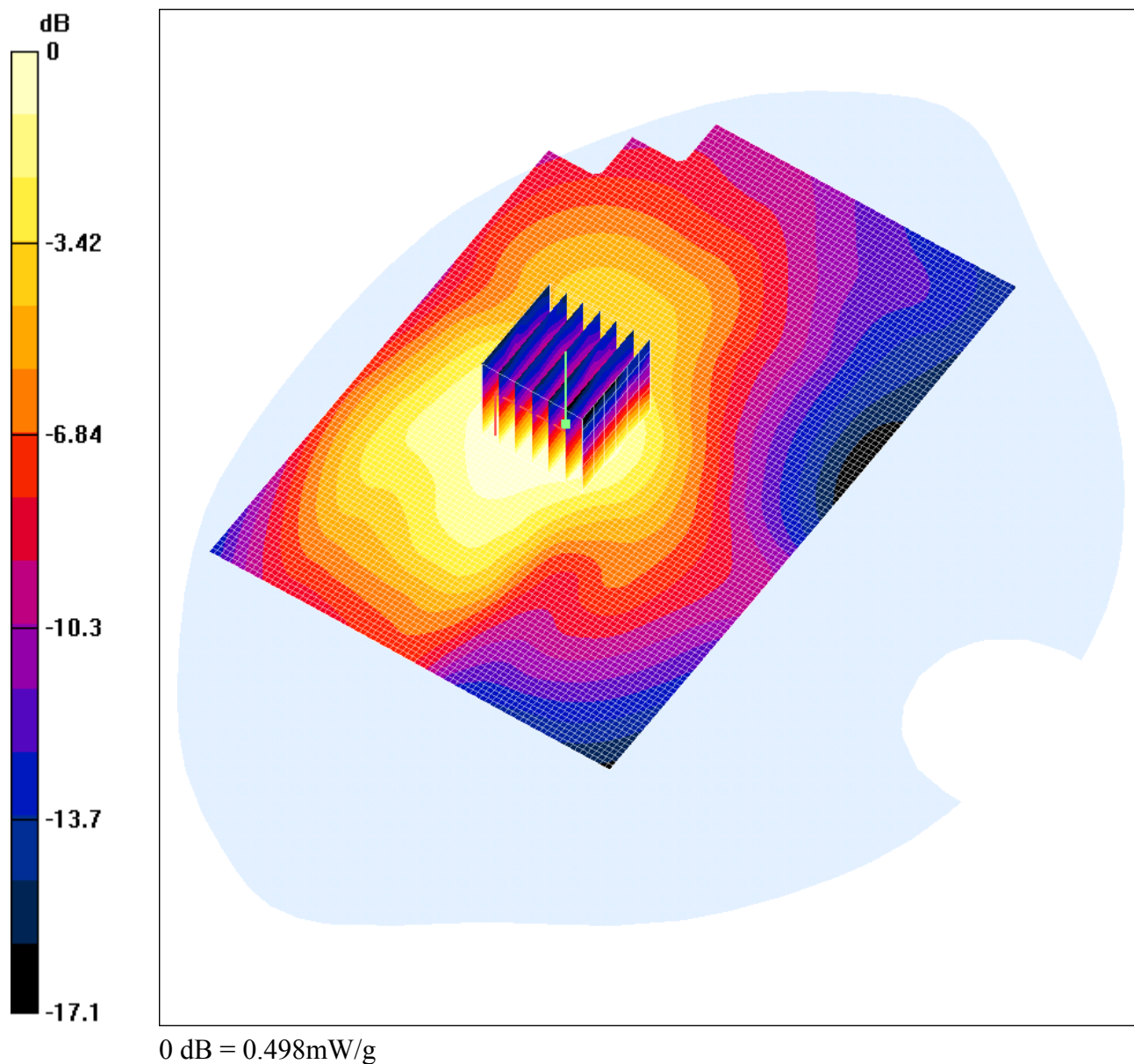
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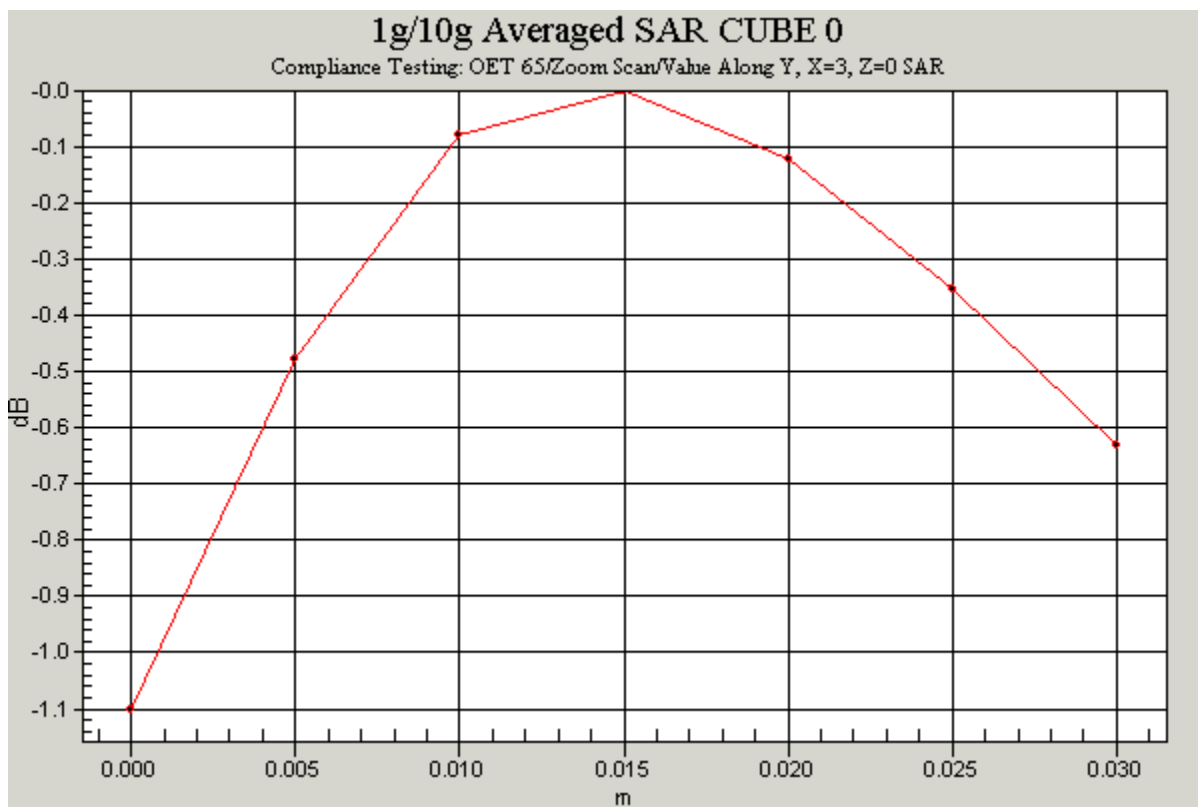
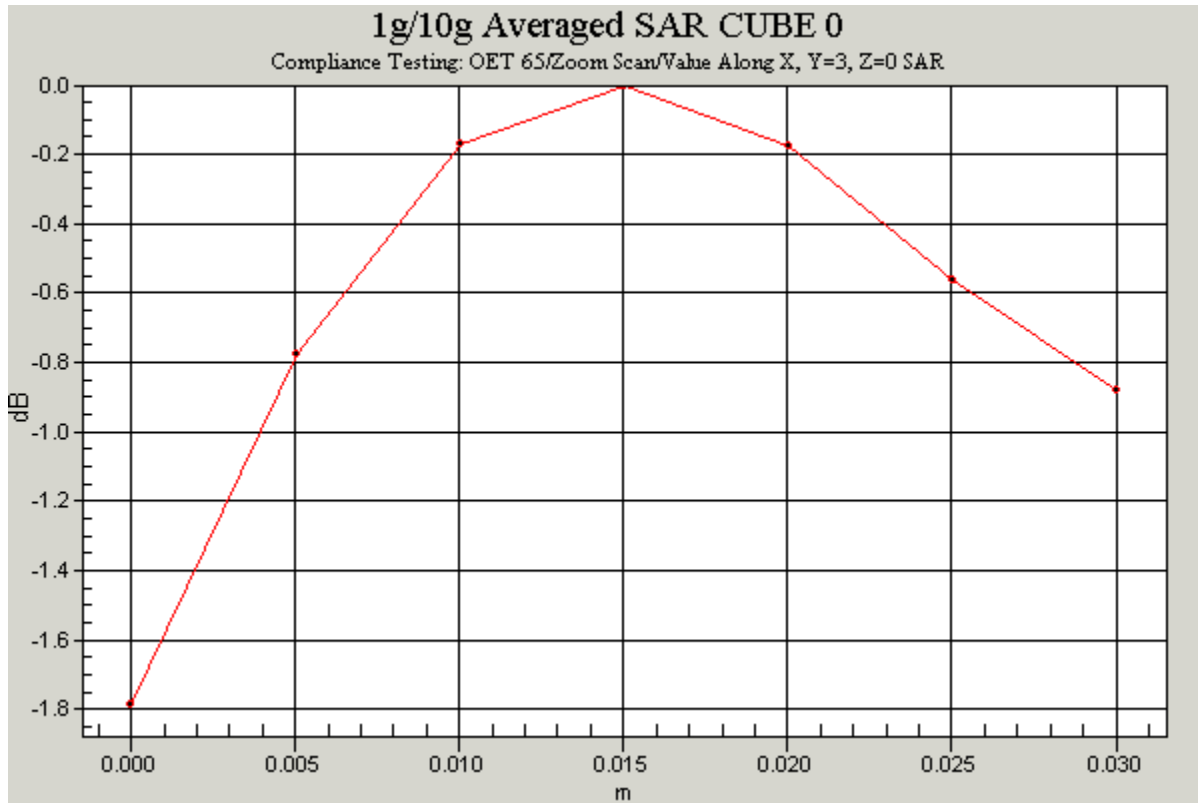
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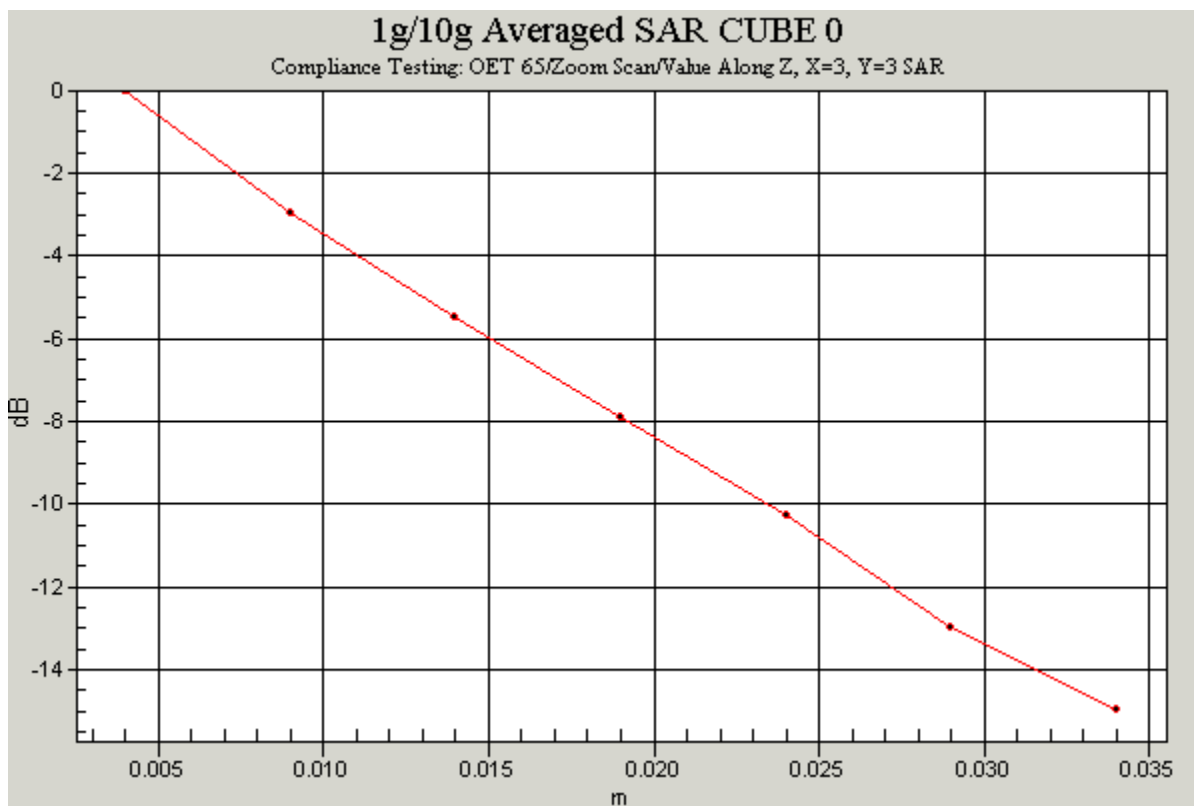
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_0 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_UMAX Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 7.83 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (interpolated) = 0.536 mW/g

0 Degrees to Phantom, PCMCIA Modem in Bottom Slot/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 7.83 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (measured) = 0.498 mW/g
 Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.267 mW/g

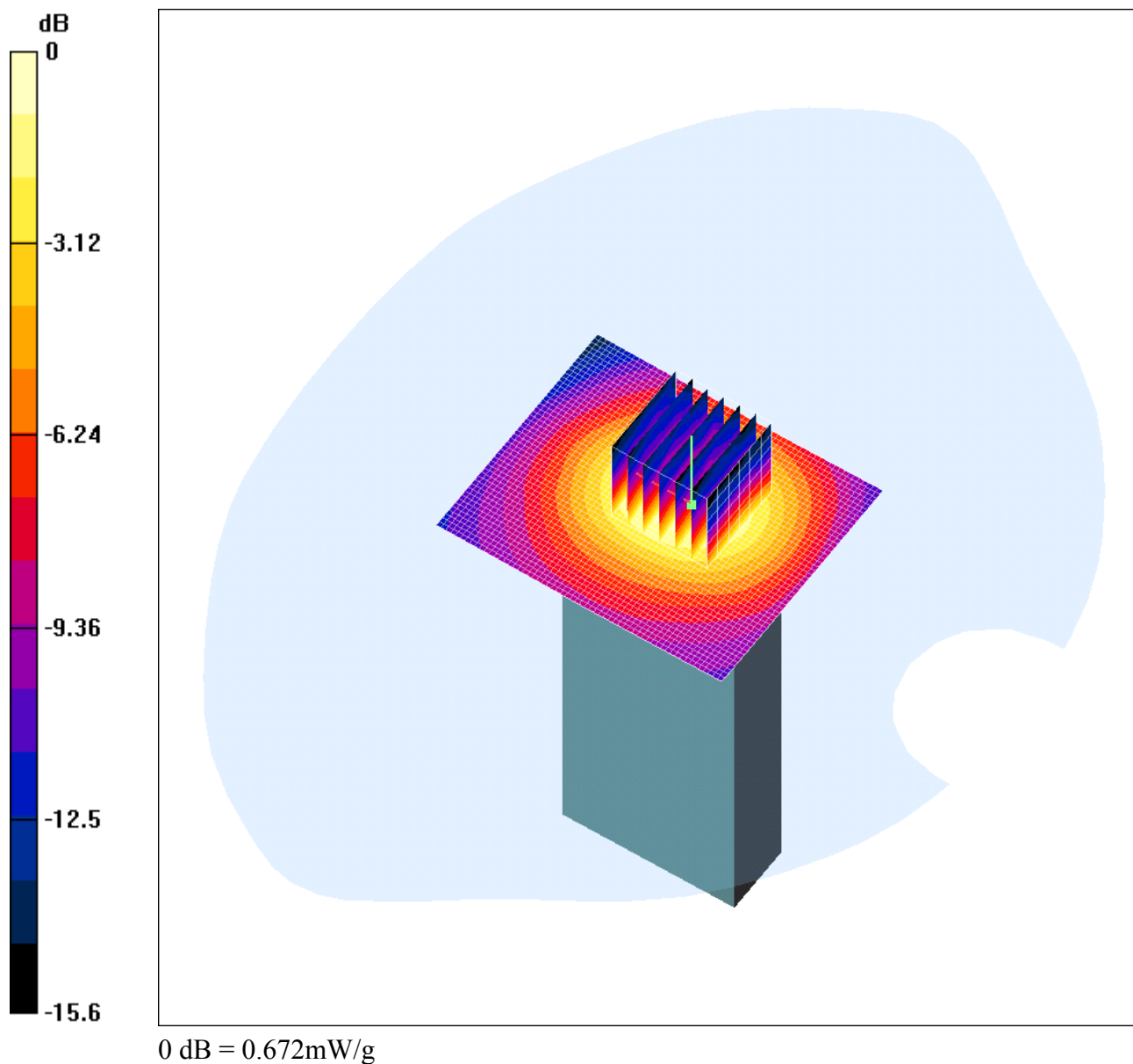
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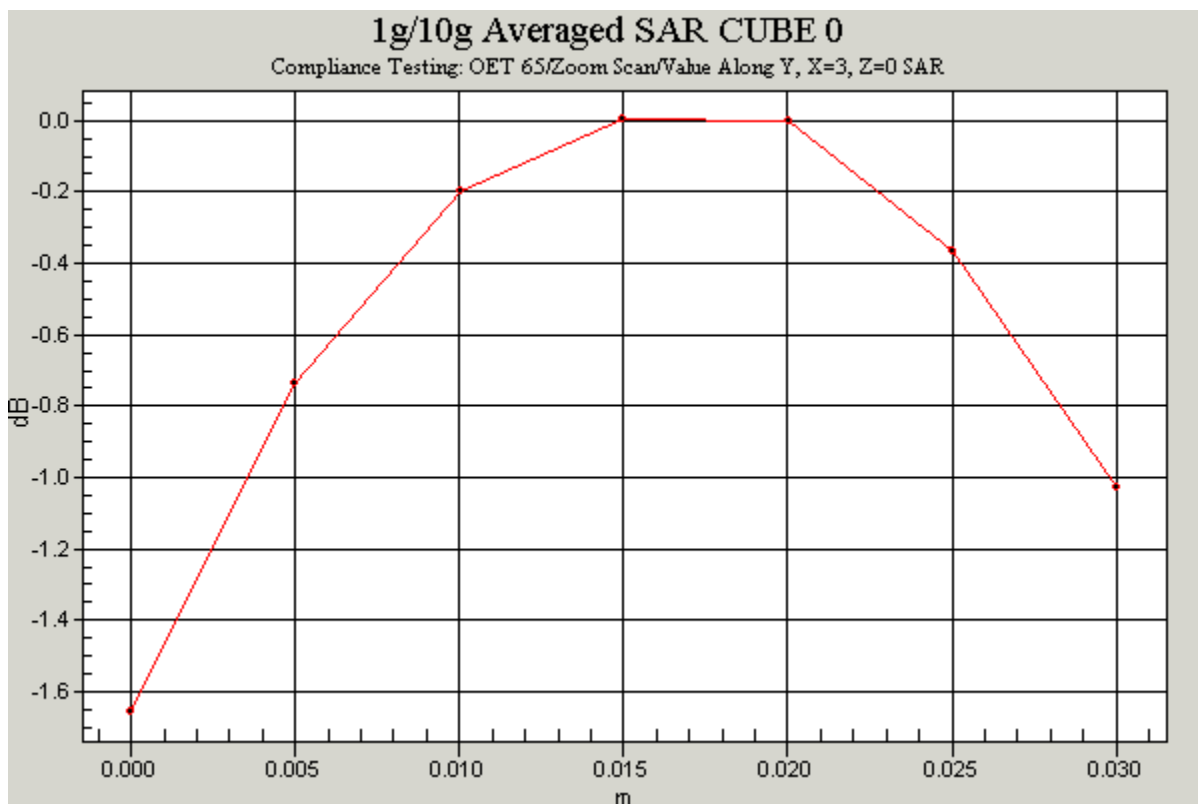
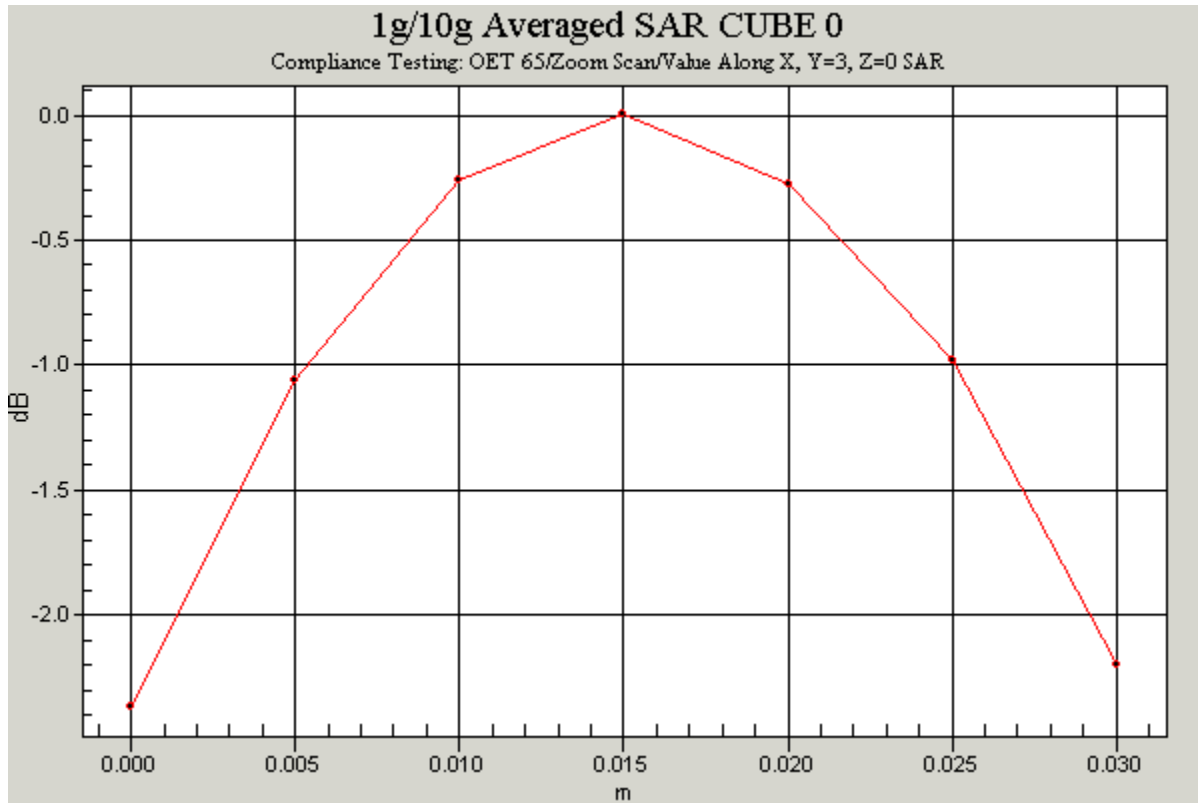
45219/07/013

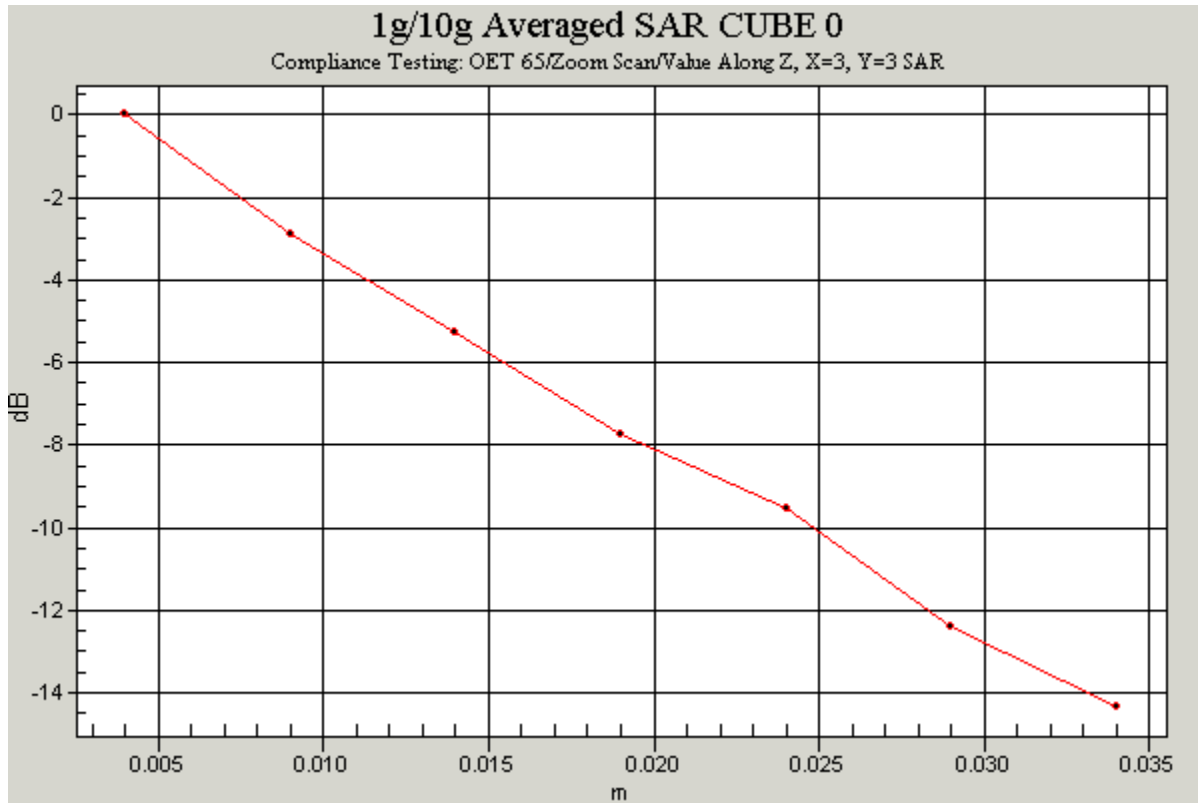
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_UMAX Host

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2596 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2596$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

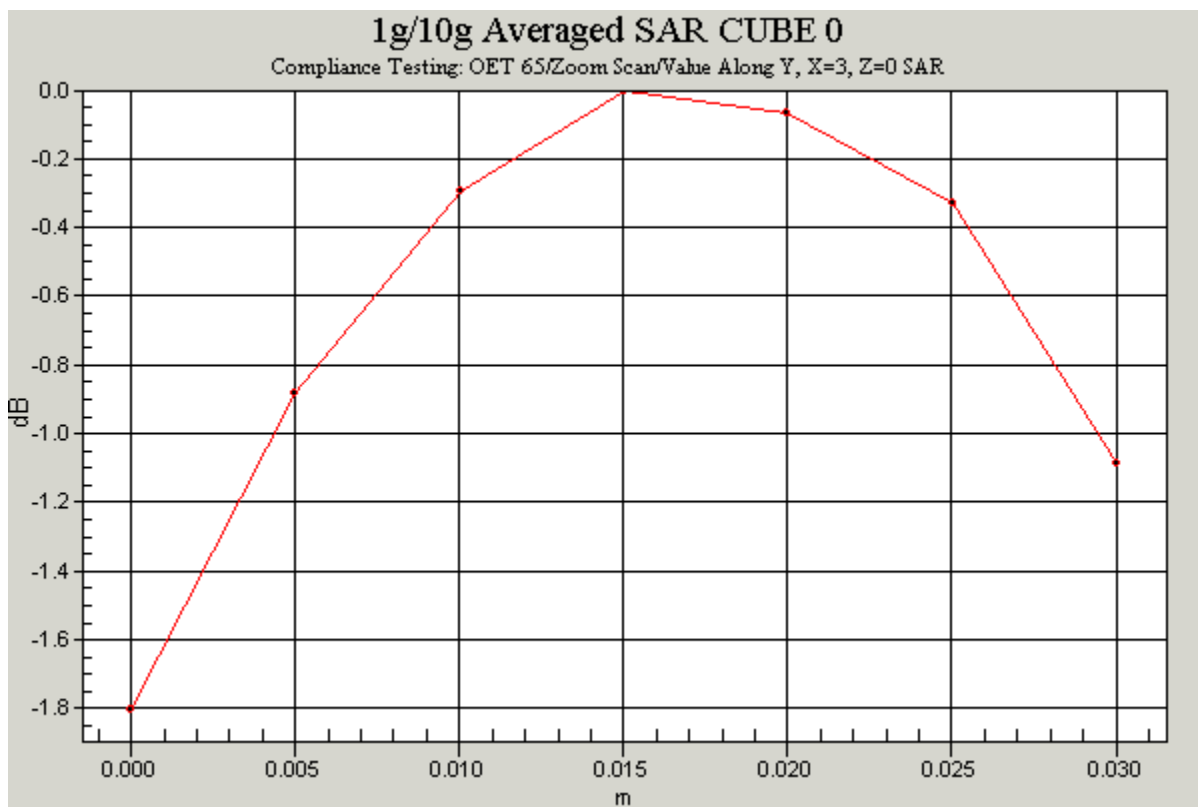
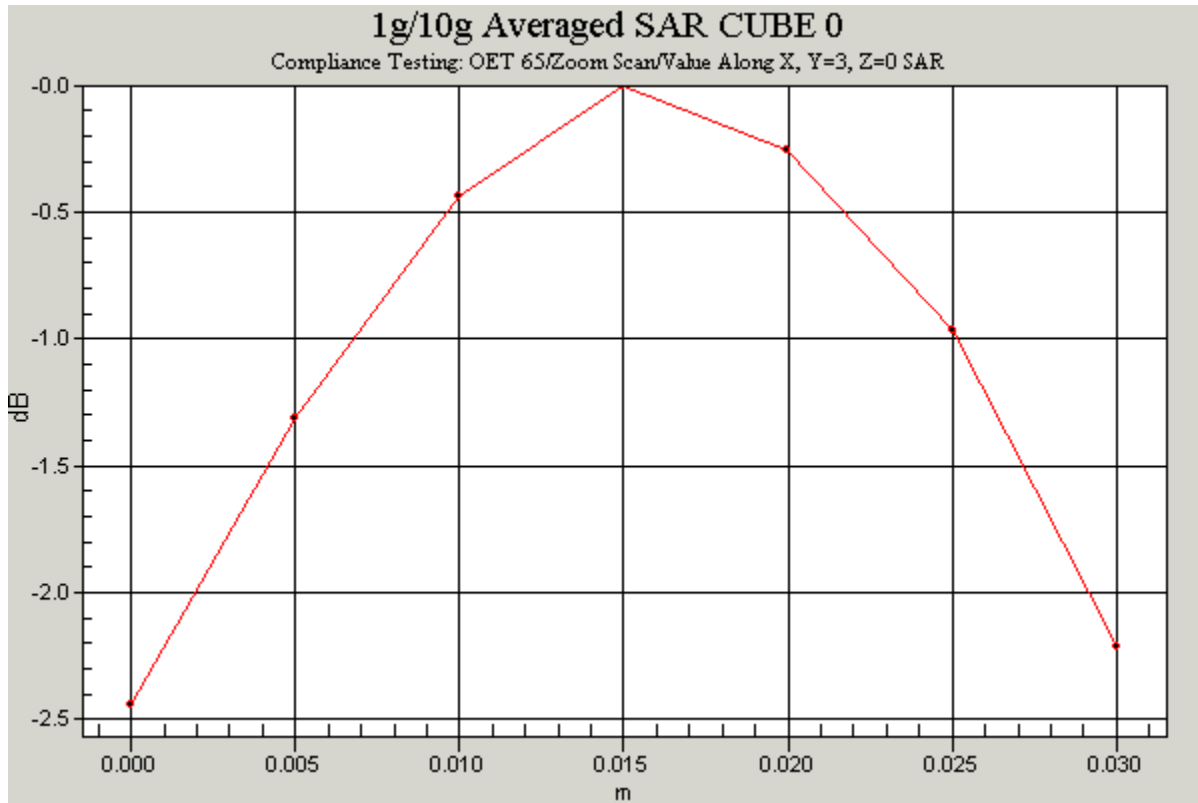
- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

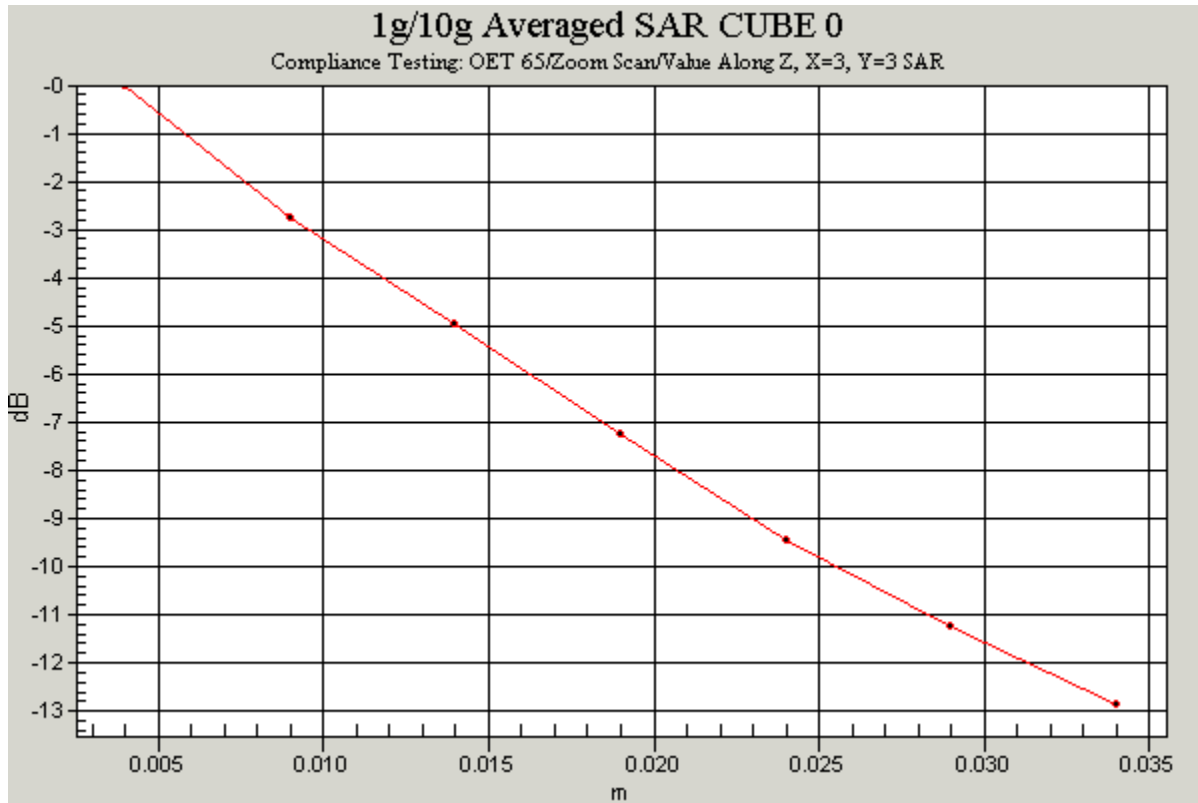
90 Degrees to Phantom, PCMCIA Modem in Bottom Slot /Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 16.8 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (interpolated) = 0.673 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot /Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 16.8 V/m; Power Drift = -0.0 dB
 Maximum value of SAR (measured) = 0.672 mW/g
 Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.351 mW/g





Communication System: TDCDMA - 12MHz Channel; Frequency: 2506 MHz; Duty Cycle: 1:3
 Medium: 2450MHz MSL Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 13.3 V/m; Power Drift = -0.1 dB
 Maximum value of SAR (interpolated) = 0.423 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (Low)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 13.3 V/m; Power Drift = -0.1 dB
 Maximum value of SAR (measured) = 0.414 mW/g
 Peak SAR (extrapolated) = 0.834 W/kg
SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.219 mW/g

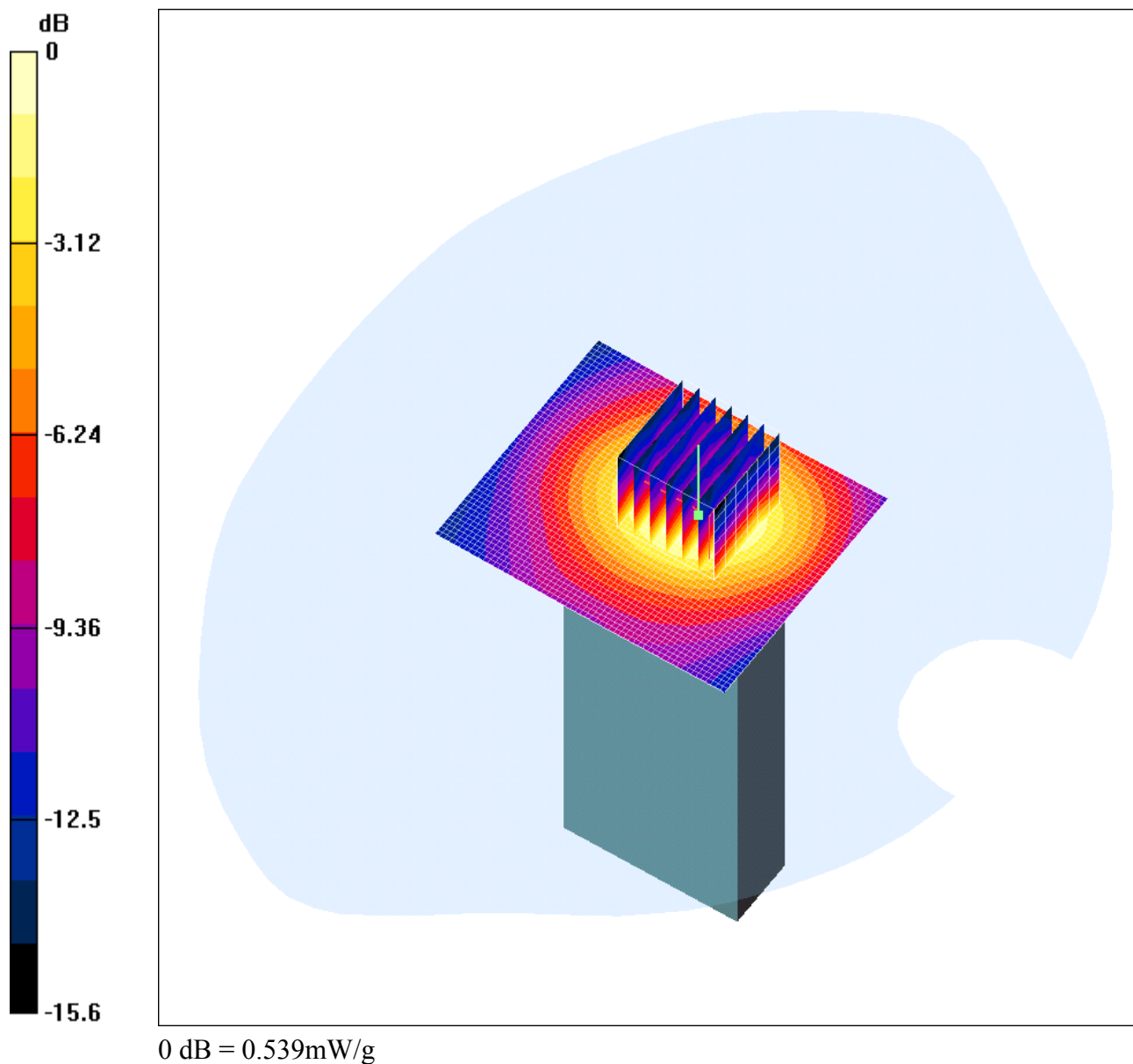
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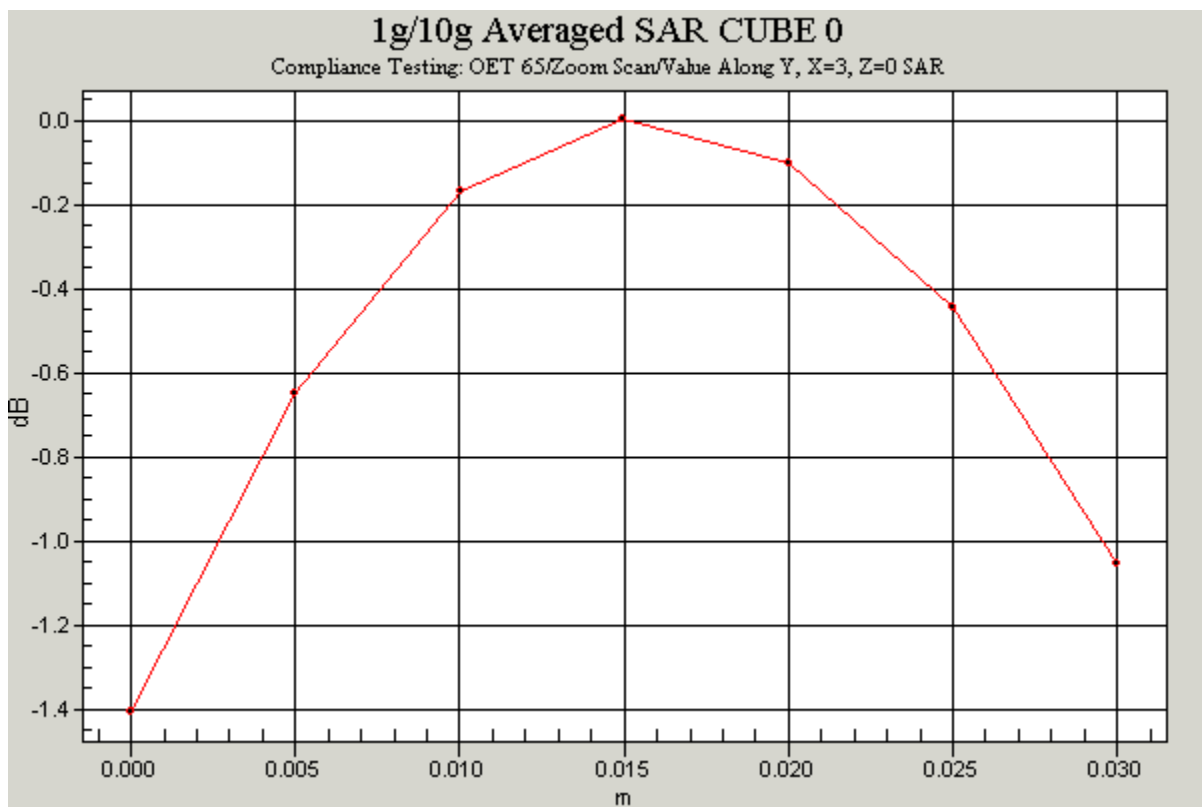
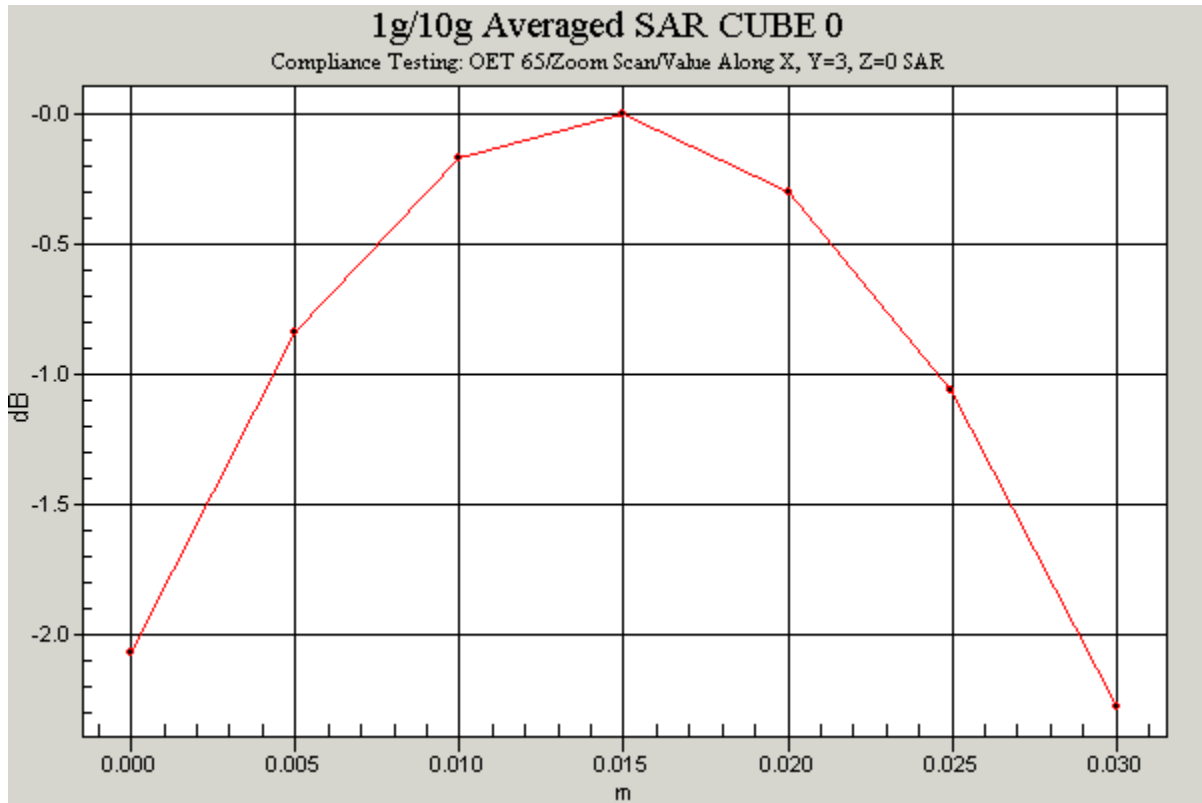
45219/07/015

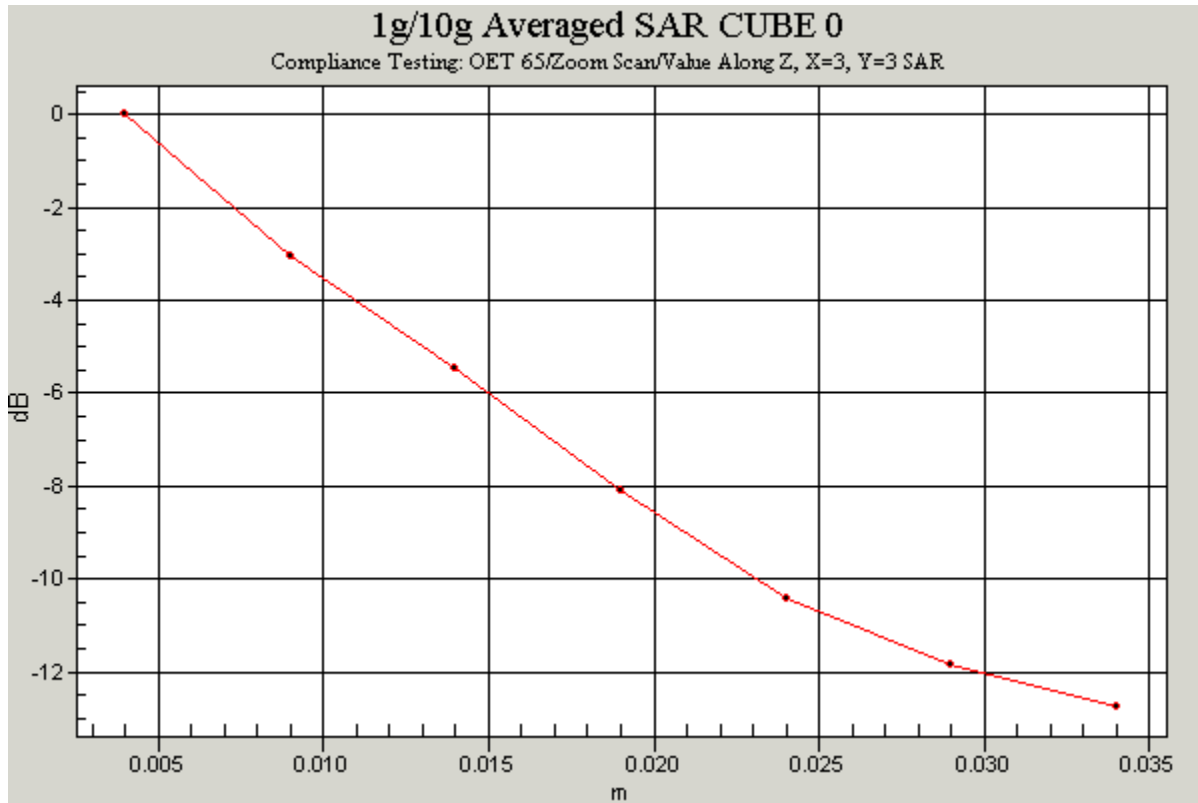
Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

45219_JD07_Flat_Section_2600MHz_12MHz Channel_90 Degrees to Phantom_PCMCIA_Modem_in_Bottom_Slot_UMAX Host_Worst_Case_High

DUT: IP Wireless UK Ltd.; Type: 12MHz Channel PCMCIA Modem; Serial: FD5D34100F213







Communication System: TDCDMA - 12MHz Channel; Frequency: 2680 MHz; Duty Cycle: 1:3
Medium: 2450MHz MSL Medium parameters used: $f = 2680$ MHz; $\sigma = 2.31$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.05, 4.05, 4.05); Calibrated: 09/06/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 14/05/2004
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Area Scan (61x51x1):

Measurement grid: dx=15mm, dy=15mm
Reference Value = 14.5 V/m; Power Drift = 0.1 dB
Maximum value of SAR (interpolated) = 0.567 mW/g

90 Degrees to Phantom, PCMCIA Modem in Bottom Slot (High)/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.5 V/m; Power Drift = 0.1 dB
Maximum value of SAR (measured) = 0.539 mW/g
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.281 mW/g