

Test Laboratory: Sporton International Inc.

#1 Antenna module 0_BW 100MHz_Back_5mm_32RB_0Offset_QPSK

Device under Test Properties

Manufacturer	Dimensions [mm]	IMEI	DUT Type
	160.0 x 75.0 x 15.0		Phone+Mod

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor
5G	BACK 5.00 mm	n260	38500.0	1.0

Hardware Setup

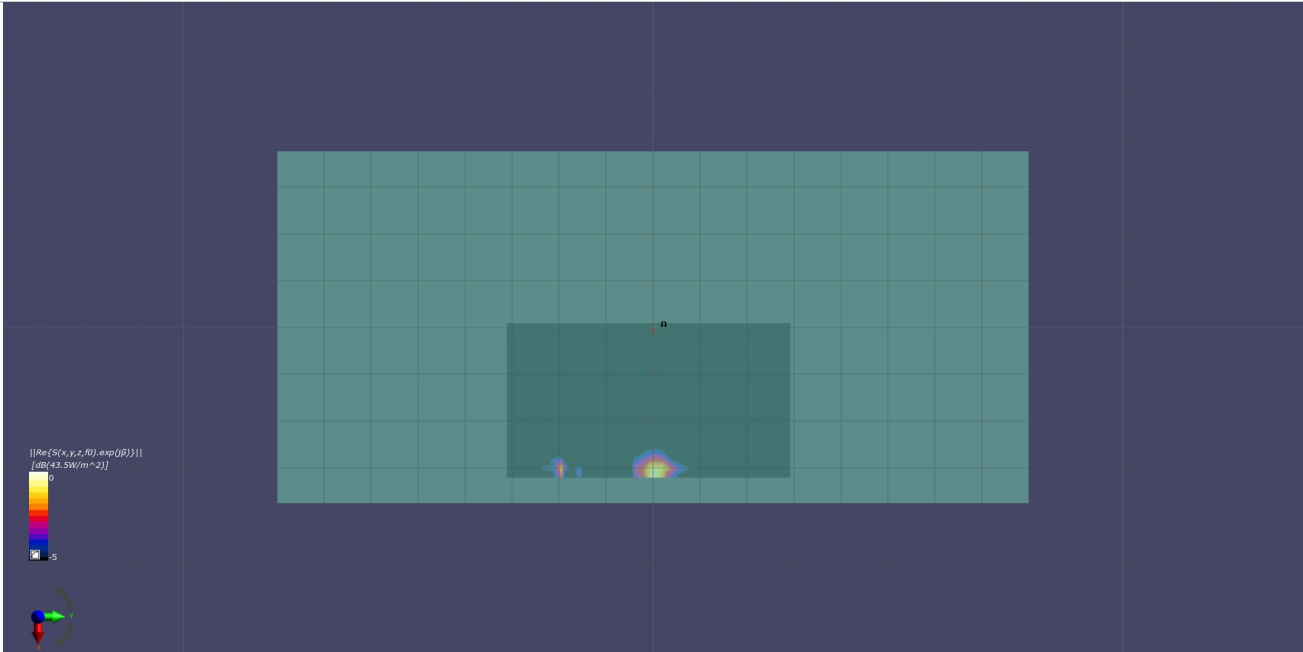
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
5G Cover	Air	EUmmWV3 - SN9390, 2018-06-28	DAE4 Sn778, 2018-05-25

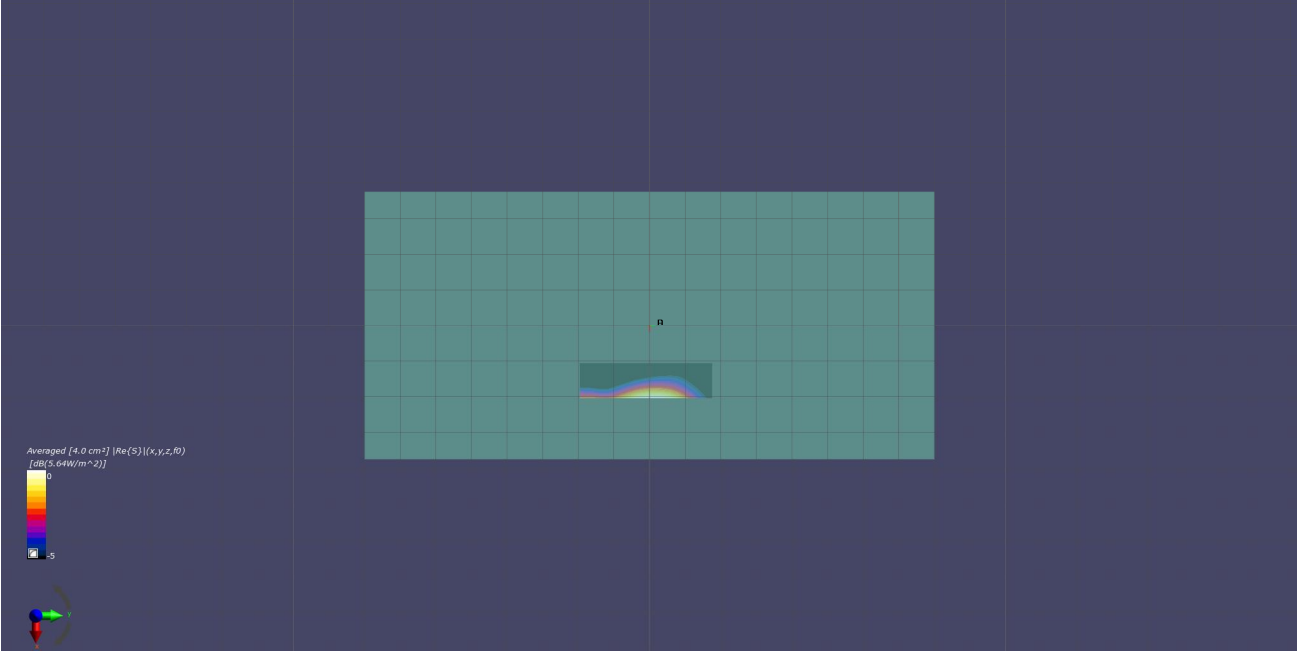
Scan Setup

	5G Scan
Grid Extents [mm]	30.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.0

Measurement Results

	5G Scan
Date	2019-01-20, 21:43
Avg. Area [cm²]	4.00
Savg tot [W/m²]	5.64
Savg inc [W/m²]	4.73
Speak [W/m²]	43.5
Epeak [V/m]	138
Hpeak [A/m]	0.337
Power Drift [dB]	0.02





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#2 Antenna module 1_BW 100MHz_Back _5mm_66RB_0Offset_QPSK

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
	160.0 x 75.0 x 15.0		Phone+Mod

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor
5G	BACK, 5.00 mm	n260	38500.0	1.0

Hardware Setup

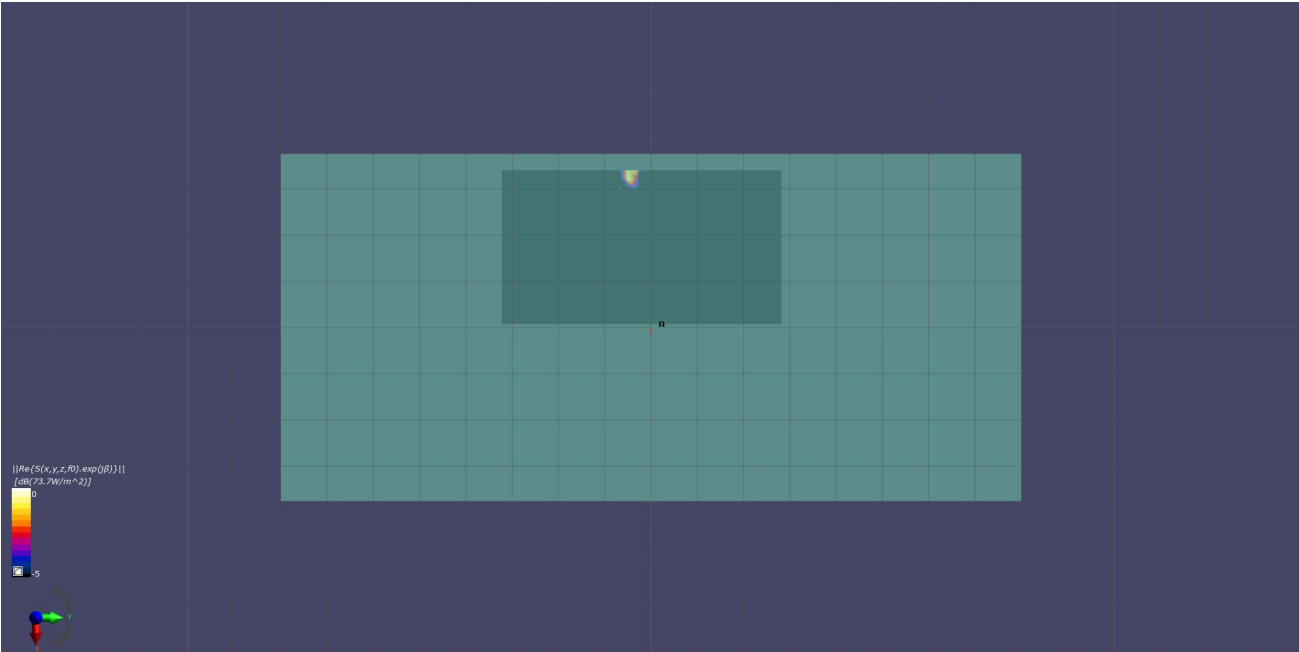
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
5G Cover	Air	EUmmWV3 - SN9390, 2018-06-28	DAE4 Sn778, 2018-05-25

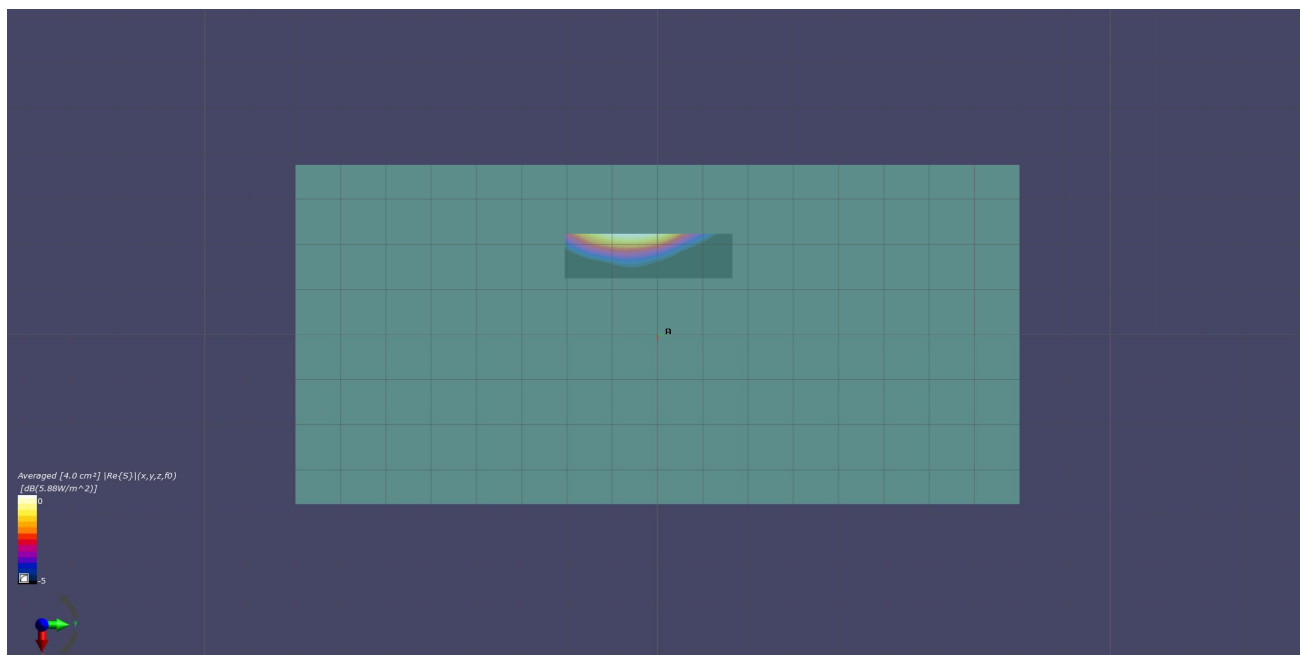
Scan Setup

	5G Scan
Grid Extents [mm]	30.0 x 70.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.0

Measurement Results

	5G Scan
Date	2019-01-23, 11:30
Avg. Area [cm²]	4.00
Savg tot [W/m²]	5.88
Savg inc [W/m²]	4.39
Speak [W/m²]	73.7
Epeak [V/m]	171
Hpeak [A/m]	0.448
Power Drift [dB]	0.10





Test Laboratory: Sporton International Inc.

#3 Antenna module 2_BW 100MHz_Top Side_5mm_32RB_0Offset_QPSK

Device under Test Properties

Manufacturer	Dimensions [mm]	IMEI	DUT Type
	160.0 x 75.0 x 15.0		Phone+Mod

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP 5.00 mm	n260	38500.0	1.0

Hardware Setup

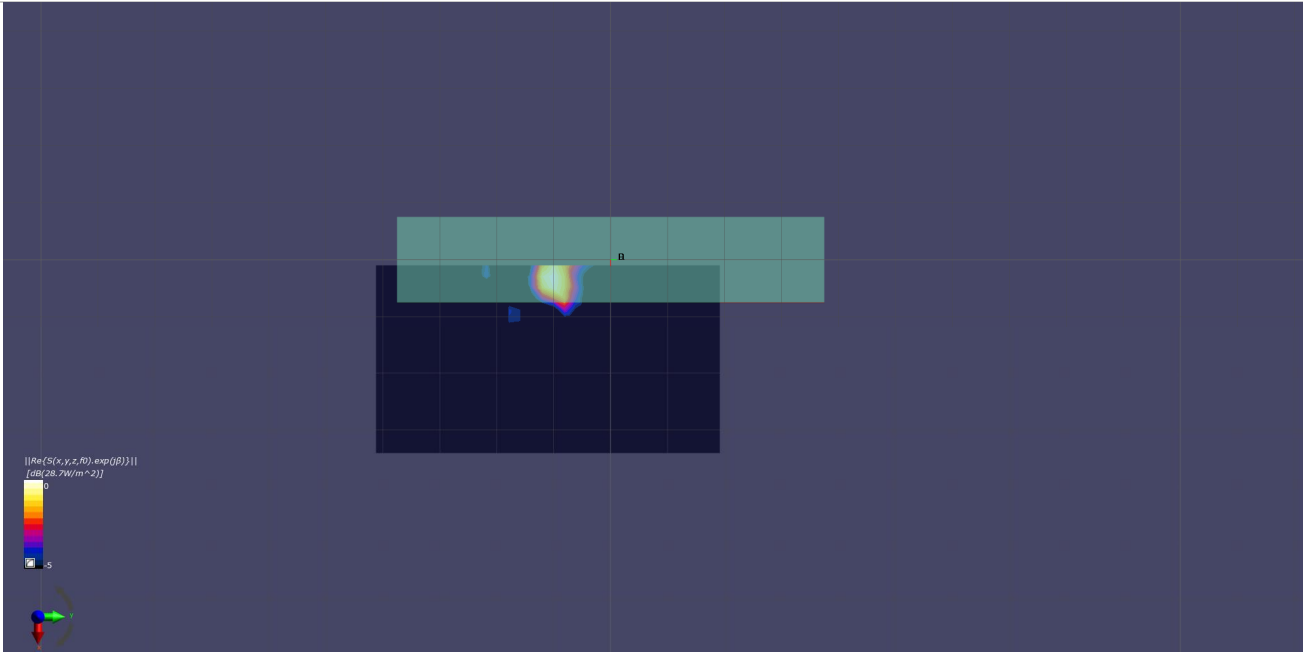
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
5G Cover	Air	EUmmWV3 - SN9390, 2018-06-28	DAE4 Sn778, 2018-05-25

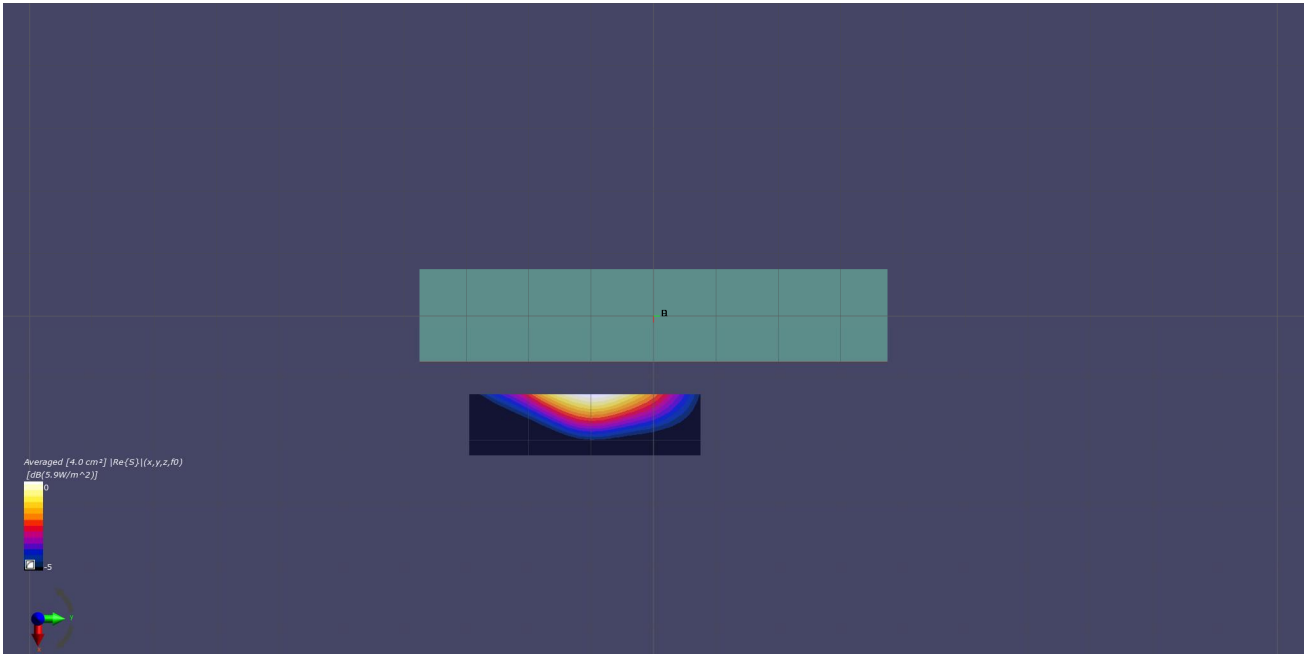
Scan Setup

	5G Scan
Grid Extents [mm]	30.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.0

Measurement Results

	5G Scan
Date	2019-01-21, 13:38
Avg. Area [cm²]	4.00
Savg tot [W/m²]	5.90
Savg inc [W/m²]	4.80
Speak [W/m²]	28.7
Epeak [V/m]	109
Hpeak [A/m]	0.266
Power Drift [dB]	-0.06





Test Laboratory: Sporton International Inc.

#4 Antenna module 3_BW 100MHz_Top Side_5mm_1RB_0Offset_QPSK

Device under Test Properties

Manufacturer	Dimensions [mm]	IMEI	DUT Type
	160.0 x 75.0 x 15.0		Phone+Mod

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP 5.00 mm	n260	37050.0	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
5G Cover	Air	EUmmWV3 - SN9390, 2018-06-28	DAE4 Sn778, 2018-05-25

Scan Setup

	5G Scan
Grid Extents [mm]	40.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.0

Measurement Results

	5G Scan
Date	2019-01-23, 01:23
Avg. Area [cm²]	4.00
Savg tot [W/m²]	3.12
Savg inc [W/m²]	2.90
Speak [W/m²]	9.91
Epeak [V/m]	63.5
Hpeak [A/m]	0.159
Power Drift [dB]	0.11

