



HW4.1 2S Meter RF (Sub GHz) Antenna Measurements Report

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2S meter Rev 7 Antenna Performance Report

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1. Introduction

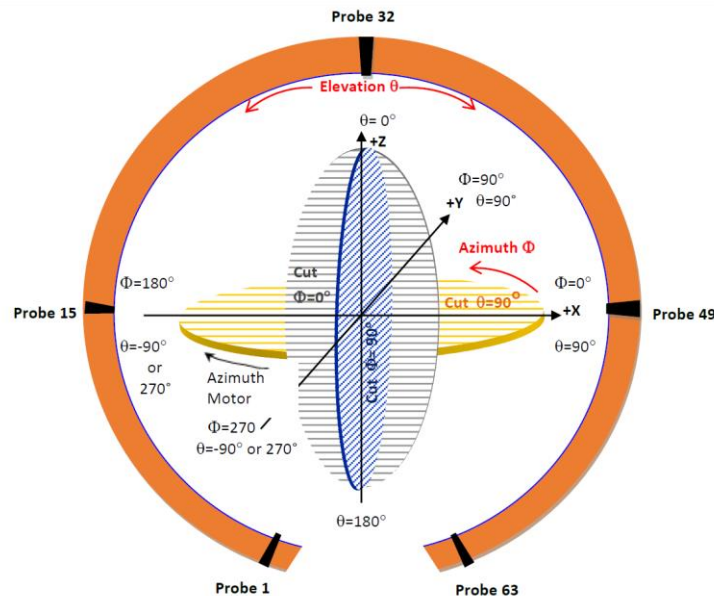
The purpose of this report is to present TRP of 2S meter 900MHz module as well as other Antenna performance (EIRP, efficiency).

2. Summary of the test

Rev 7	Meter		
	Frequency, MHz	Efficiency	Antenna Gain, dB
	902.4	50%	2.5
	915.2	44%	2.4
	927.6	44%	2

Table 1: Overview of Antenna performance

3. Antenna Test system coordinate diagram:



4. Camera Images

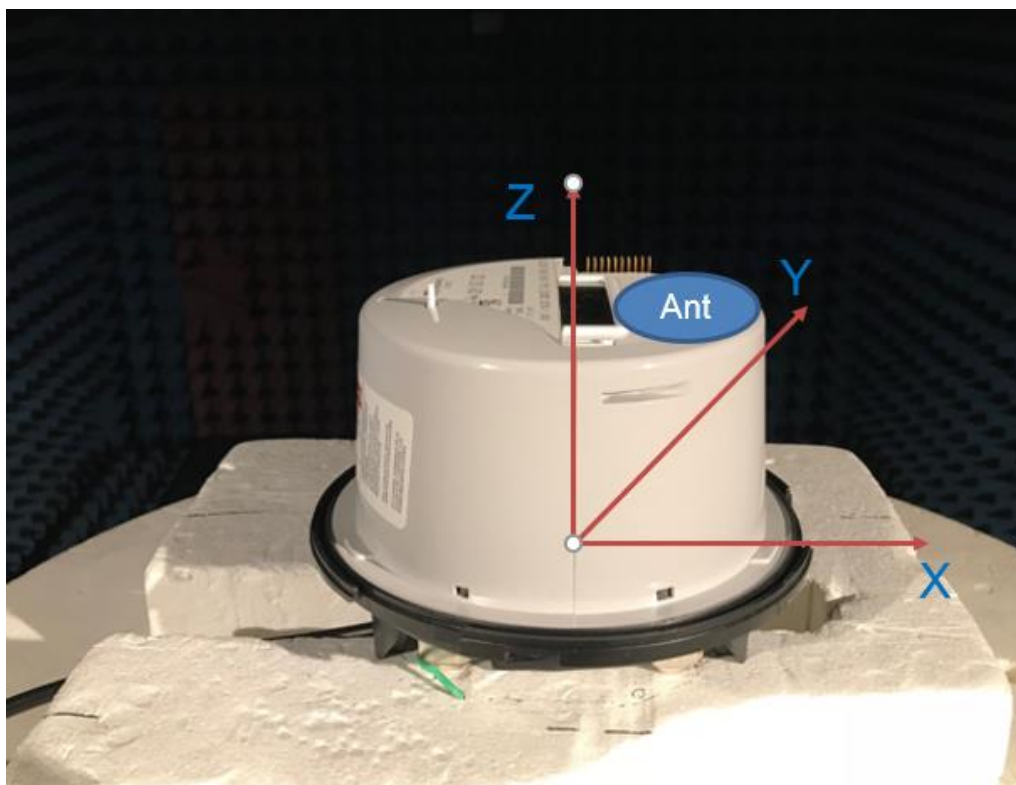


Figure 1: Meter placement view



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5. 3D plots

i. RF 915.2 MHz X-Z view:

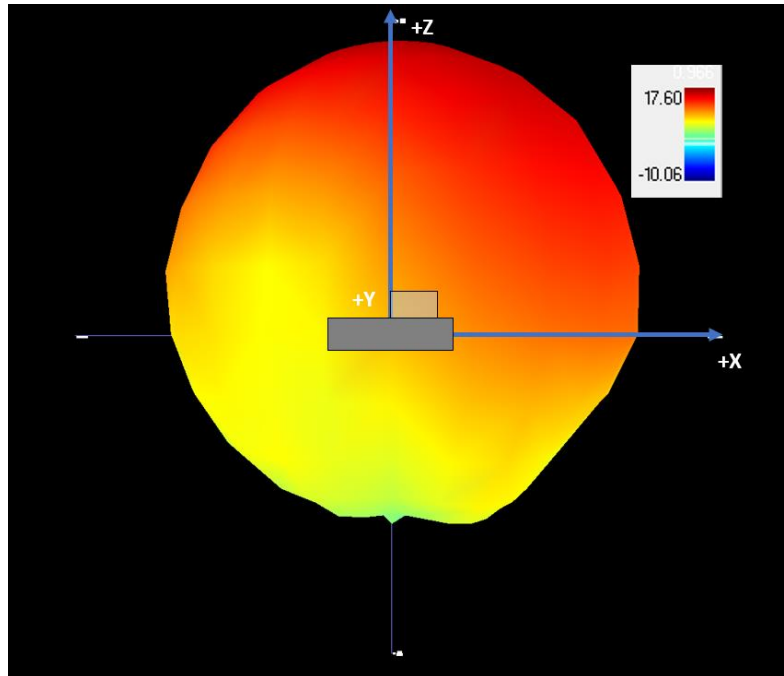
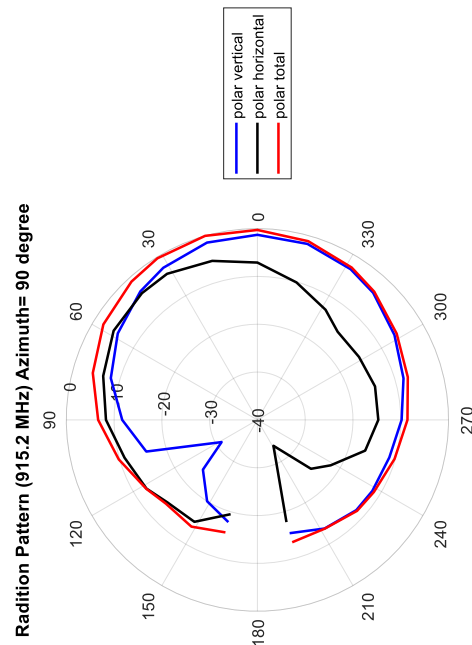


Figure 2: 3D Radiation Pattern at 915.2 MHz X-Z view





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ii. RF915.2MHz Y-Z view:

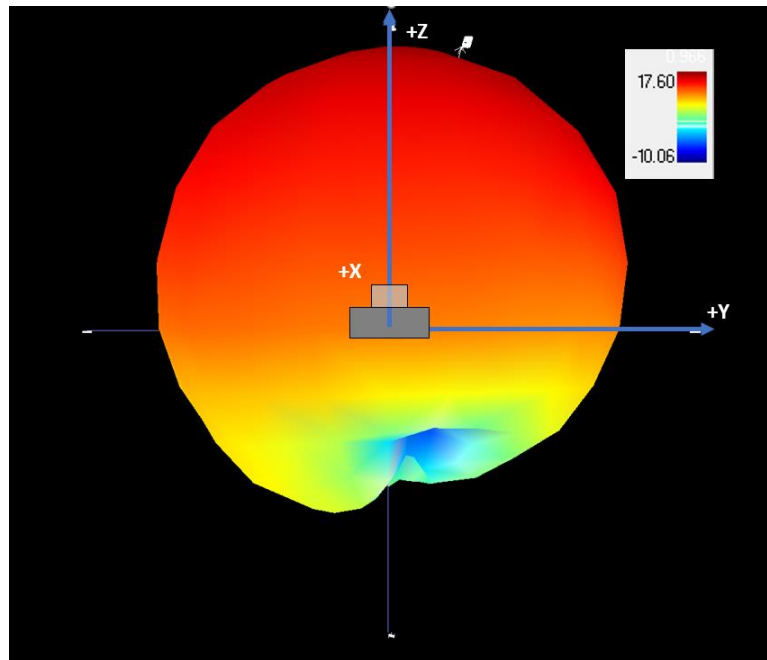
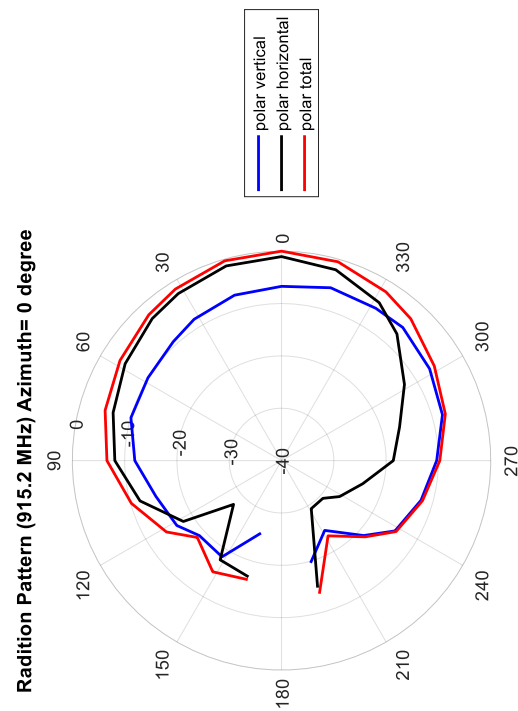


Figure 3: 3D Radiation Pattern at 915.2 MHz Y-Z view





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iii.

RF915.2MHz X-Y view:

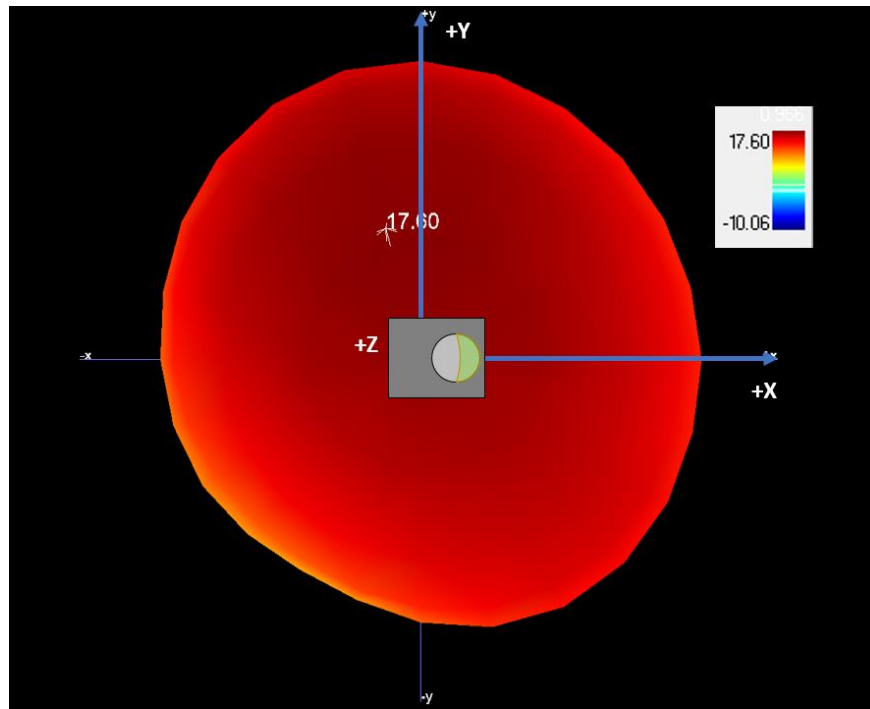


Figure 4: 3D Radiation Pattern at 915.2 MHz X-Y view



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6. 2D Plots

A. RF 902.4MHz

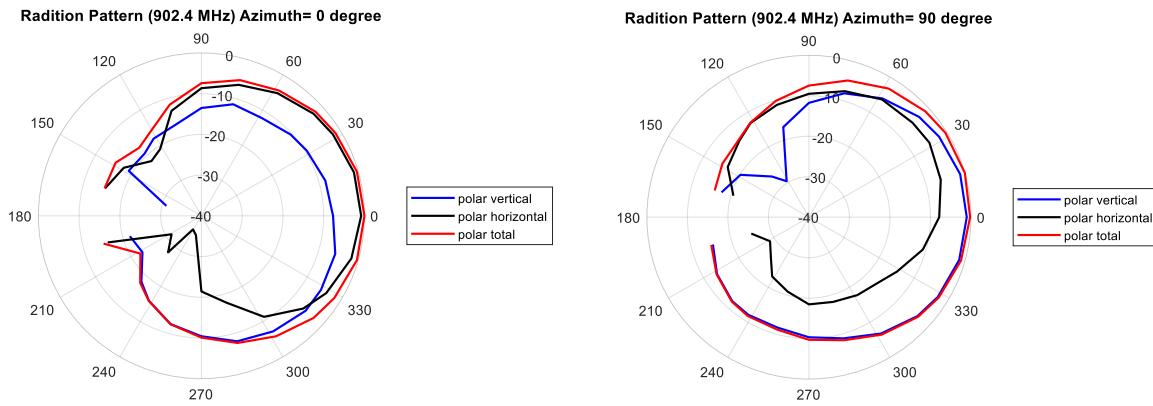


Figure 5 : 2D Radiation Pattern with Horizontal and Vertical at 902.4 MHz

B. RF 915.2 MHz

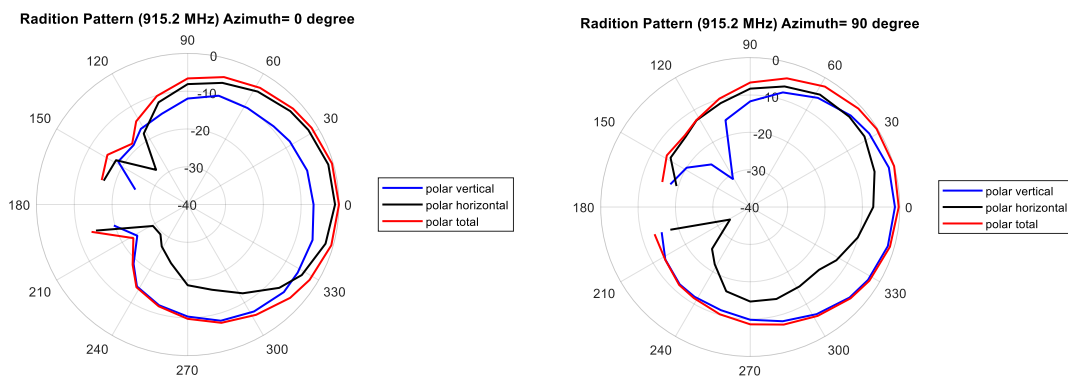


Figure 6: 2D Radiation Pattern with Horizontal and Vertical at 915.2 MHz



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C. RF 927.6 MHz

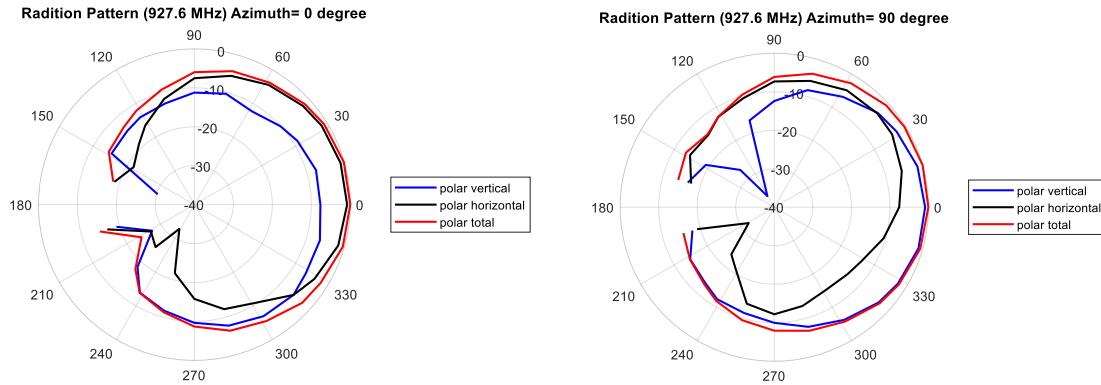


Figure 7: 2D Radiation Pattern with Horizontal and Vertical at 927.6MHzSummary

The 2S Meter Sub GHz antenna gain can range from 2.0 to 2.5dBi. All OTA results shown here have approximately +/- 0.5 dB tolerance.