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Custom Integrated Antennas (CIA)

StreamLabs Antenna Analysis

Submitted to Jorge Almirall and Chris Kang on:

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Revision History

Date of Revision	Revision Comments	Pages Affected
02/15/2019	StreamLabs Antenna Analysis	All

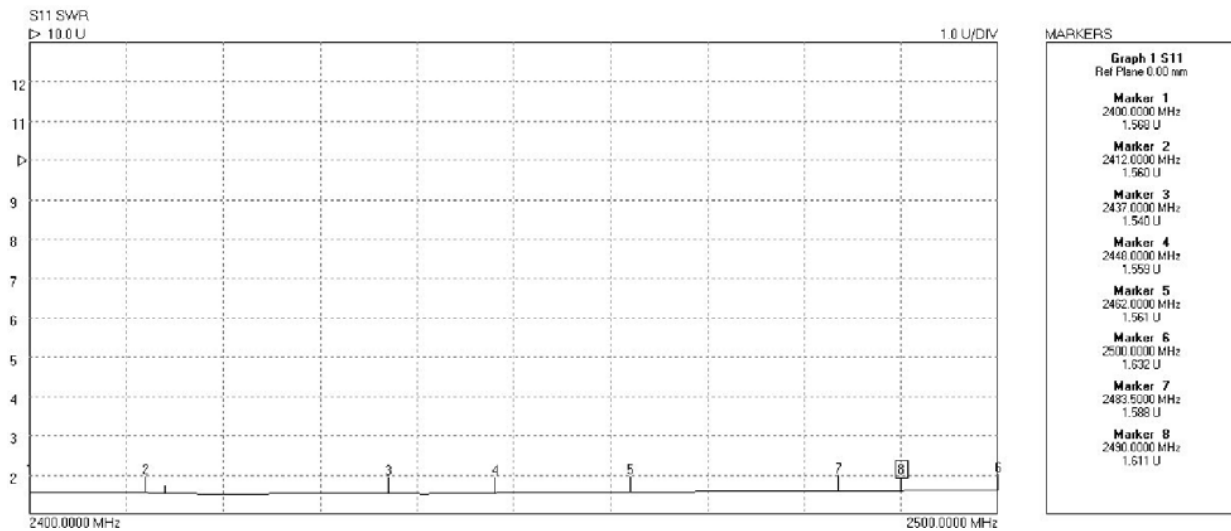


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StreamLabs Antenna Analysis (02/15/2019)

1 VSWR

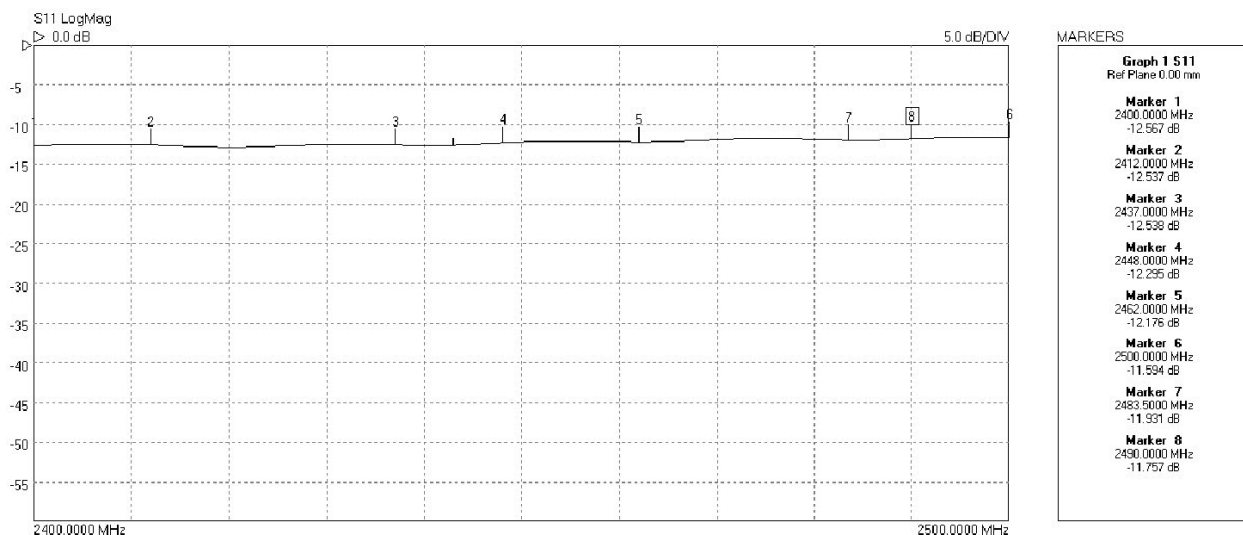




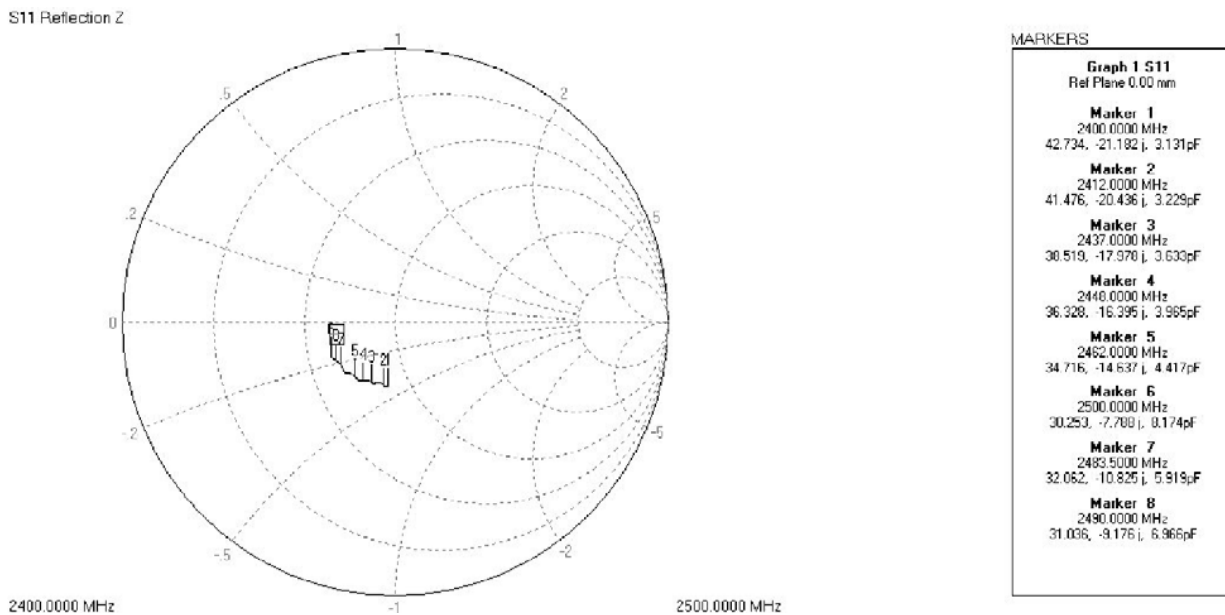
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2 Return Loss



3 Smith Chart





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4 Tabular Data

Average Gain Comparison: All data points averaged for each frequency and all angles (dBi)				Average Gain 2.4 GHz ISM Band (dBi)	Maximum Gain (dBi)
Frequency (MHz)	2400	2448	2500	Radiation Plane Average	Maximum (dBi)
StreamLabs Antenna Azimuth (02/15/2019)	-6.04	-6.45	-6.50	-6.33	0.97
StreamLabs Antenna V-Pol EL-FB (02/15/2019)	-12.02	-12.88	-12.08	-12.31	-5.60
StreamLabs Antenna V-Pol EL-LR (02/15/2019)	-6.27	-6.47	-6.04	-6.26	-2.27

Data table showing the average and peak gain for each configuration tested.

For the FCC Report: Peak gain is:
+0.97 dBi



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