

Pulse 3216 2.4 GHz Chip Antenna Proposal For Gemtek WSMN-162 Project 2.4 GHz Application

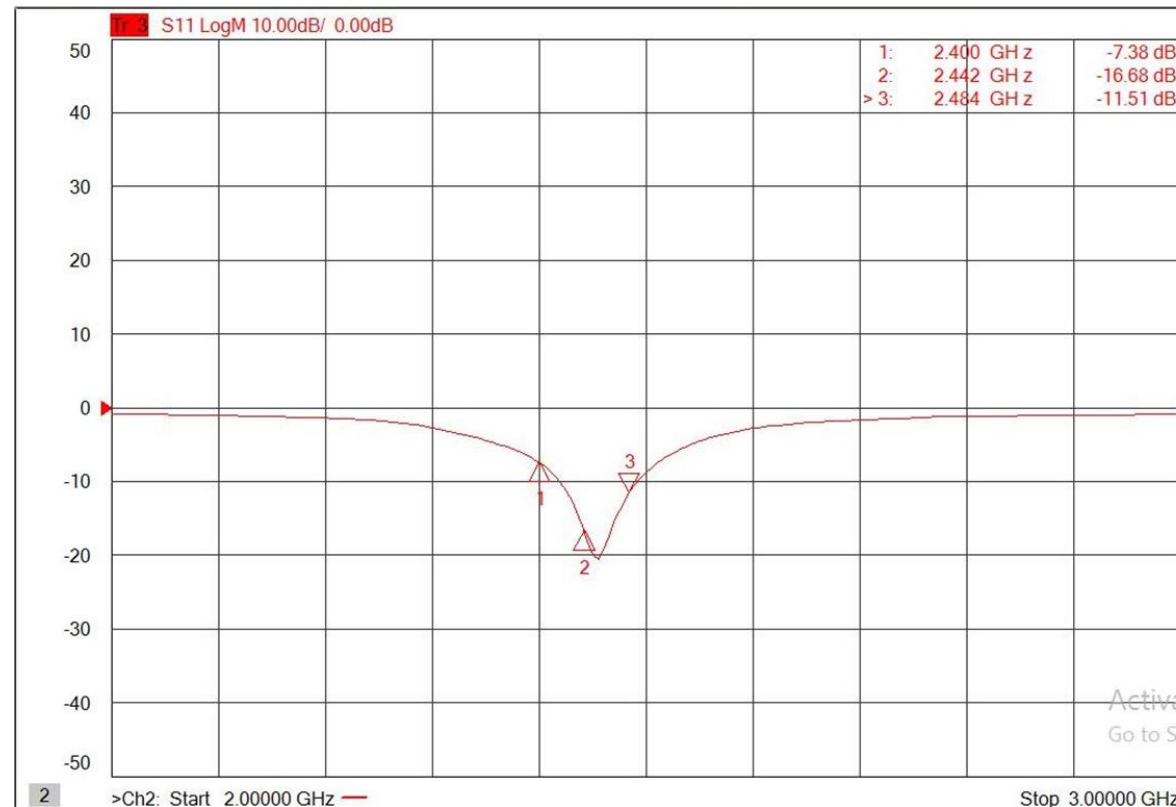
Wireless Components
LTCC R&D

September 26, 2022

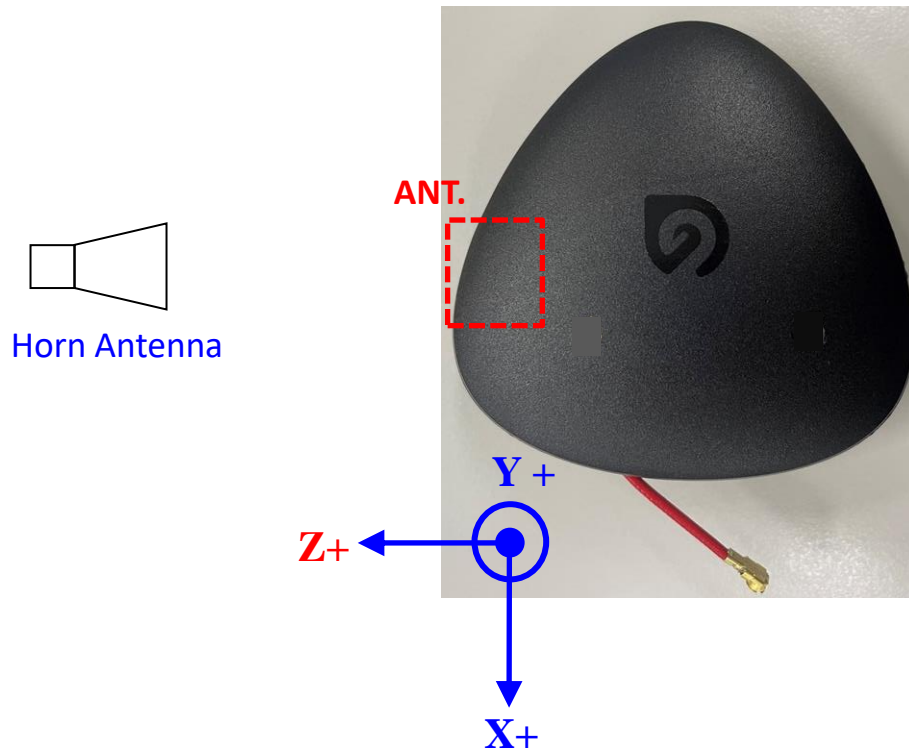


- **Customer : Gemtek**
- **Project Name : WSMN-162**
- **Application: IOT device**
- **Antenna size : 3216 2.4GHz chip antenna ([ANT3216LL11R2400A](#))**
- **PCB size : 47 * 45.5 mm**
- **Report date : 2022/09/26**
- **Version : 1**

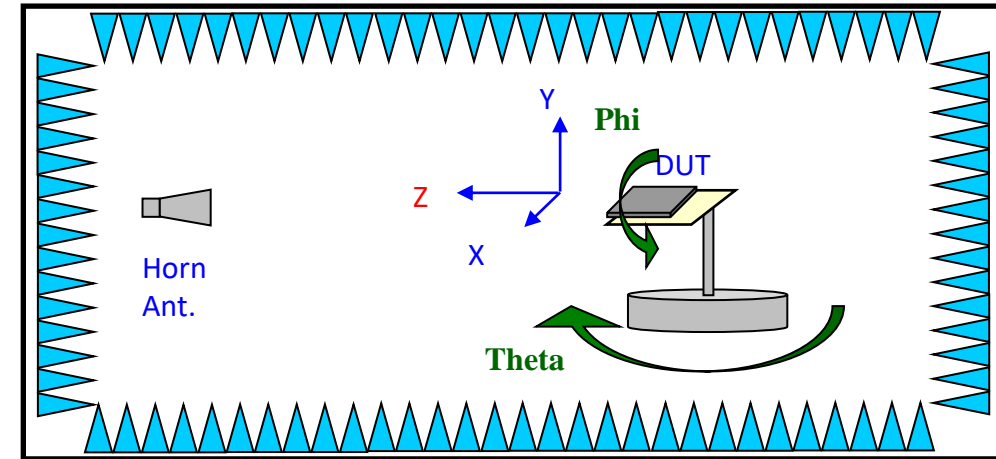
Antenna	PULSE 3216 2.4GHz Chip antenna (ANT3216LL11R2400A)		
Frequency (MHz)	2400	2442	2484
R.L. (dB)	-7.3	-16.6	-11.5
Max. Gain (dBi)	0.44	1.16	1.37
Avg. Gain (dB)	-3.34	-2.30	-2.32
Efficiency (%)	46.31	58.78	58.57



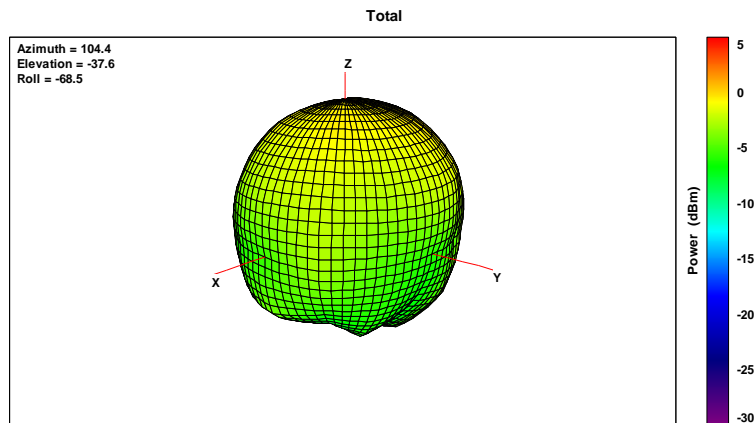
[Direction Definition]



[Anechoic Chamber]

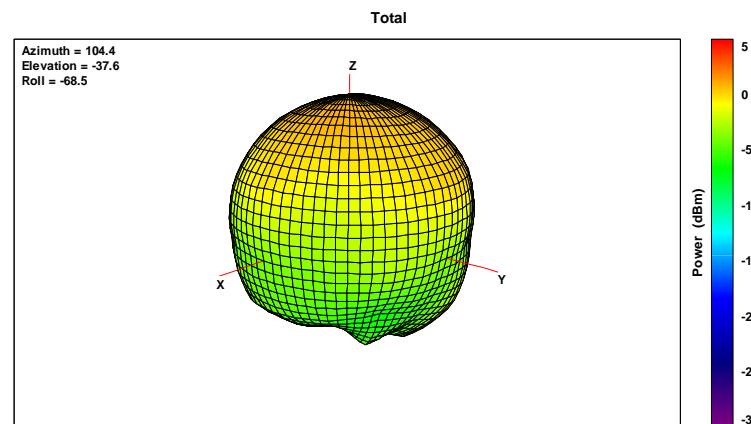


2.400 GHz



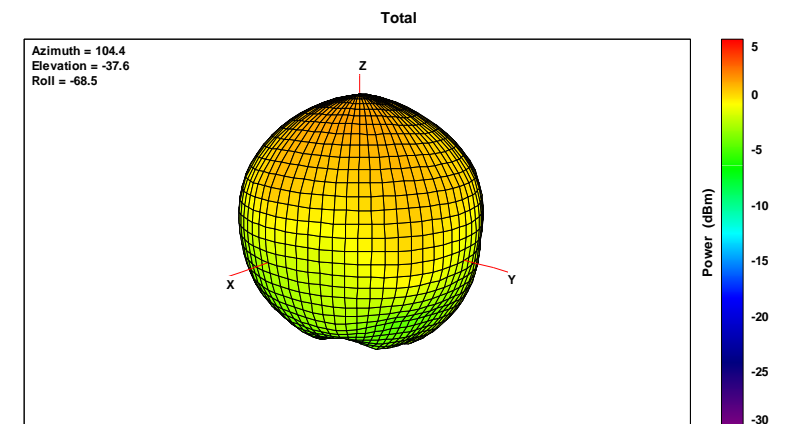
Max gain : 0.44 dBi
Avg. Gain : -3.34 dB
Directivity : 3.78 dB
Efficiency : 46.31 %

2.442 GHz



Max gain : 1.16 dBi
Avg. Gain : -2.30 dB
Directivity : 3.47 dB
Efficiency : 58.78 %

2.484 GHz



Max gain : 1.37 dBi
Avg. Gain : -2.32 dB
Directivity : 3.70 dB
Efficiency : 58.57 %

Thank You

