

Regulatory WLAN Antenna Information

Antenna information							
Vendor	Type	Antenna Part number (Main/TX2)			Antenna Part number (Aux/ TX1)		
ZTX	PIFA	HQ20604973000 2.00005367			HQ20604974000 2.00005368		
Address of Vendor (Manufacturer)	No. 236, Section 3, Huanbei Road, Zhubei City, Hsinchu County						
Peak gain w/ cable loss (dBi)							
2.4GHz 2400-2500MHz	5.2&5.3GHz 5150-5350MHz	5.5GHz 5470-5725MHz	5.8GHz 5725-5850MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	6.9GHz 6875-7125MHz
1.82	1.48	1.38	1.30	1.90	-0.99	-0.72	0.08
Module information							
Model	Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....)						
AX211NGW (Garfield Peak 2)	Intel Wi-Fi 6E AX211 + BT5.2 (802.11ax 2x2, MU-MIMO, supporting gigabit data rate) M.2						
AX201NGW (Harrison_P eak2)	Intel Wi-Fi 6 AX201 + BT5.2 (802.11ax 2x2, MU-MIMO, supporting gigabit data rate) M.2						
Notes (marked with *)							
<p>* SAR minimum separation (mm)</p> <ul style="list-style-type: none"> - Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device) - Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device) - Mini-tablet: Minimum antenna-to-edge (6 sides of the device) <p>* 3D Peak Antenna gain should be equal or greater than -2 dBi</p> <ul style="list-style-type: none"> - If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host. 							

Antenna Information

Section 1. Antenna Assembly Specifications

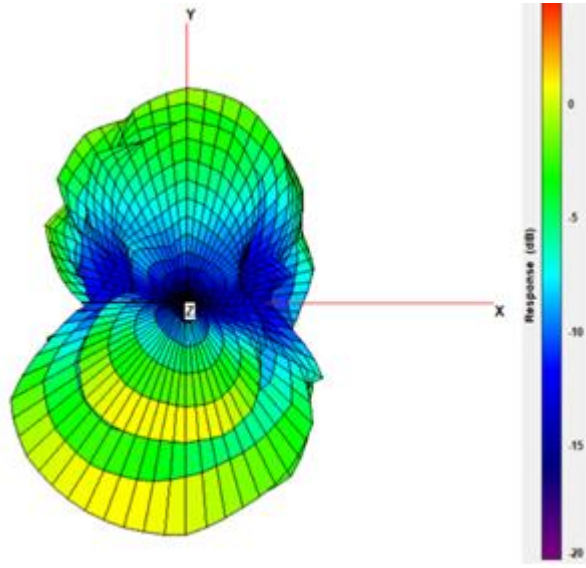
1A Antenna Part Number	1B Manu-facturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
P/N: HQ20604973000 (Vendor P/N: 2.00005367) Tx1/Main Antenna	ZTX	PIFA	1)cable p/n: GBE/Shen-Yu/YFC/Kaibo 2) 50 ohm coaxial cable 3) length:406.90mm 4) Connector p/n: I-pex:20565-001R-13 KangShuo:MHF-B13-N-01	2400-2500	1.82	2.67	3	0.85
				5150-5250	1.48	2.74	3	1.26
				5250-5350	1.48	2.75	3	1.27
				5470-5725	0.26	1.56	3	1.30
				5725-5850	0.26	1.58	3	1.32
				5925-6425	1.38	2.76	3	1.38
				6425-6525	-0.99	0.42	3	1.41
				6525-6875	-0.72	0.72	3	1.44
				6875-7125	-0.06	1.43	3	1.49
P/N: HQ20604974000 (Vendor P/N: 2.00005368) Tx2/Aux Antenna	ZTX	PIFA	1)cable p/n: GBE/Shen-Yu/YFC/Kaibo 2) 50 ohm coaxial cable 3) length:594.00mm 4) Connector p/n: I-pex:20565-001R-13 KangShuo:MHF-B13-N-01	2400-2500	0.66	1.69	3	1.03
				5150-5250	-0.31	1.22	3	1.53
				5250-5350	-0.31	1.23	3	1.54
				5470-5725	1.38	2.96	3	1.58
				5725-5850	1.30	2.90	3	1.60
				5925-6425	1.90	3.58	3	1.68
				6425-6525	-1.07	0.64	3	1.71
				6525-6875	-0.80	0.95	3	1.75
				6875-7125	0.08	1.89	3	1.81

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

Section 2. Radiation characteristics of antennae Loaded in Host Platform

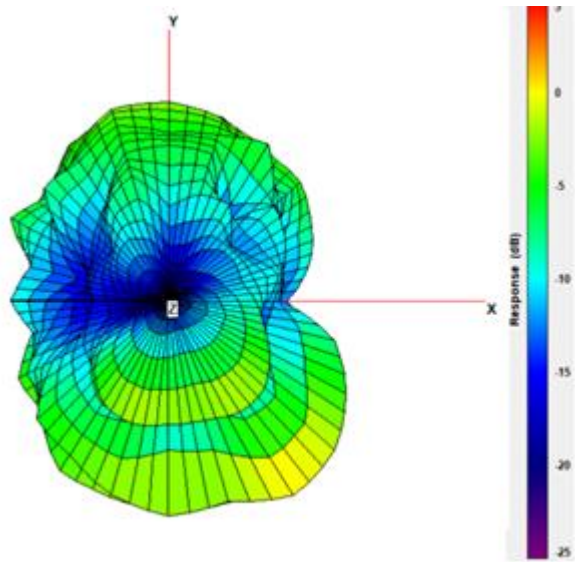
2400-2500MHz radiation characteristic (1E Peak Gain W/ Cable loss (dBi))

Main antenna:



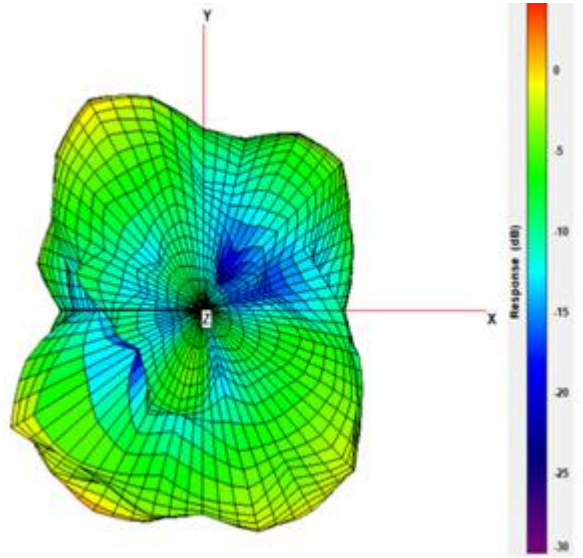
Center Frequency	2400-2500 MHz
Horizontal+ Vertical (dBi) peak	0.66

Aux antenna:



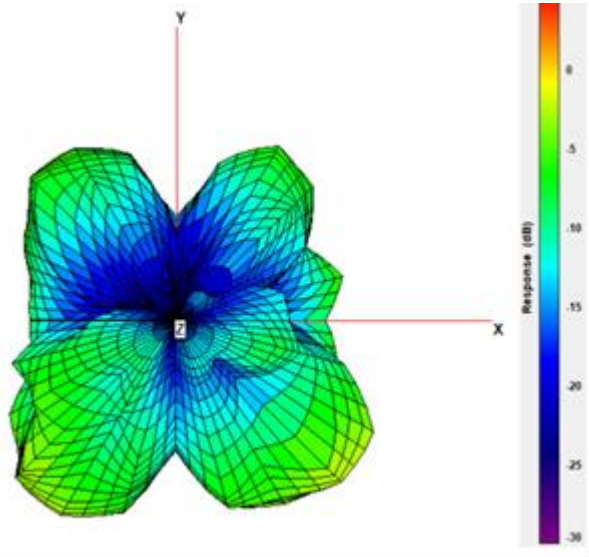
Center Frequency	2400-2500 MHz
Horizontal+ Vertical (dBi) peak	1.82

5150-5250MHz radiation characteristic
Main antenna:



Horizontal+ Vertical (dBi) peak	-0.31
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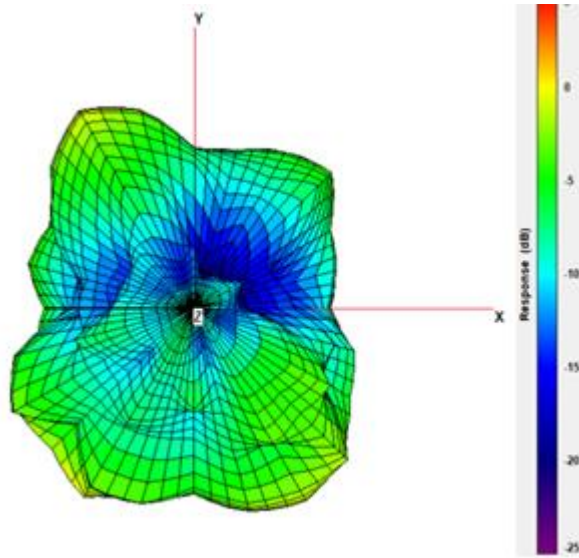
Aux antenna:



Horizontal+ Vertical (dBi) peak	1.48
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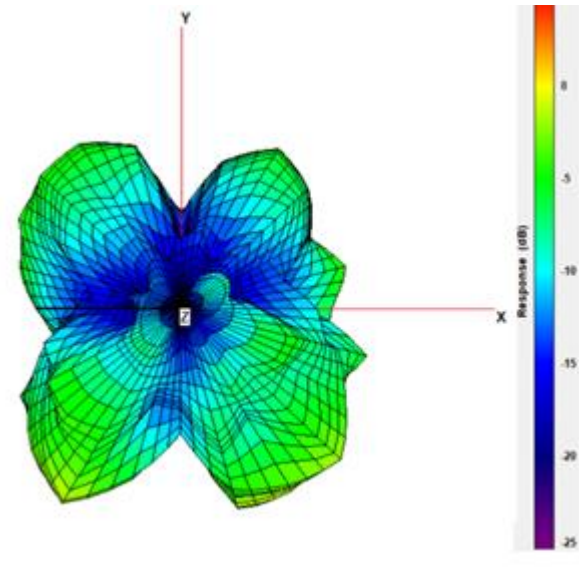
5250-5350MHz radiation characteristic

Main antenna:



Horizontal+ Vertical (dBi) peak	-0.31
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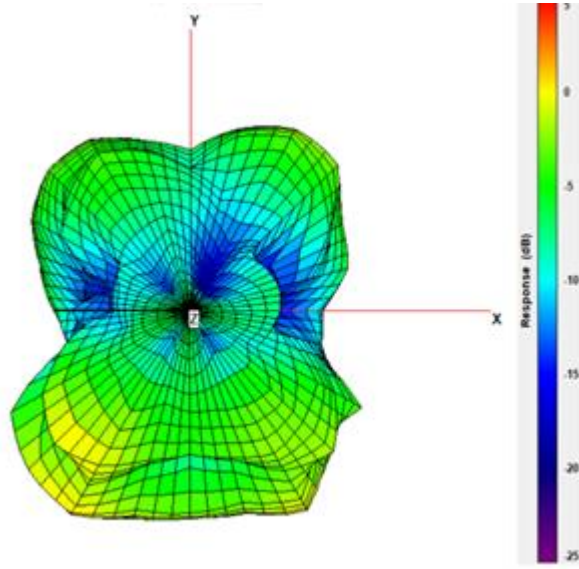
Aux antenna:



Horizontal+ Vertical (dBi) peak	1.48
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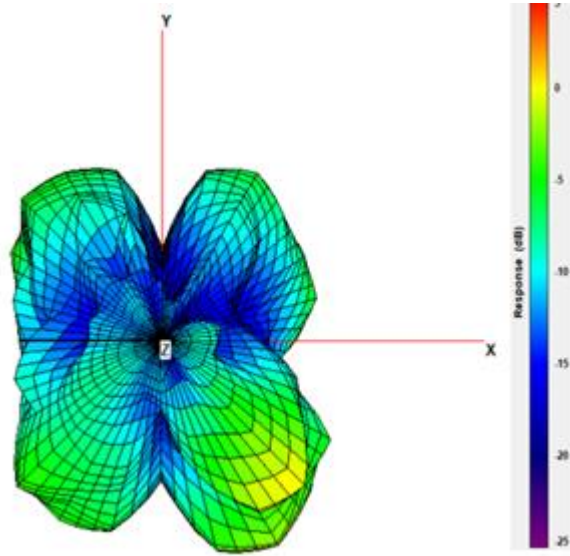
5470-5725MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	1.38
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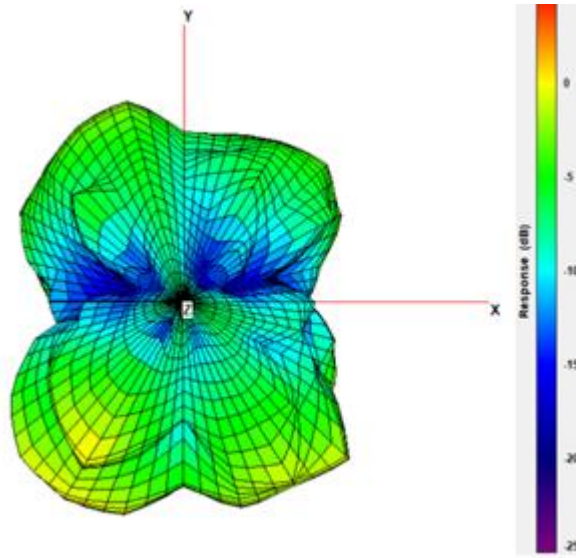
Aux antenna:



Horizontal+ Vertical (dBi) peak	0.26
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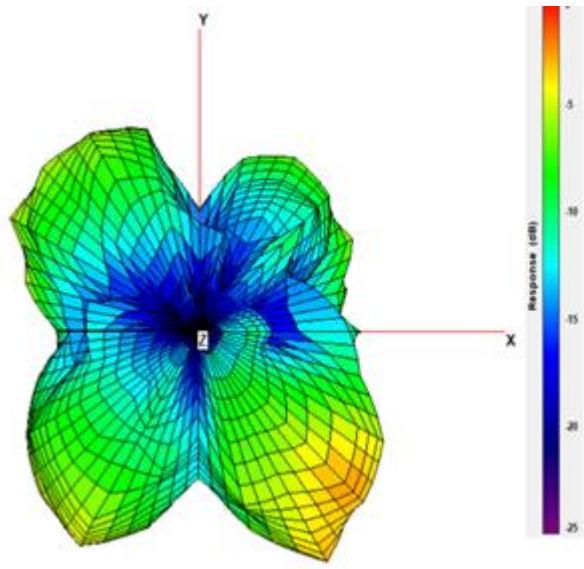
5725-5850MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	1.3
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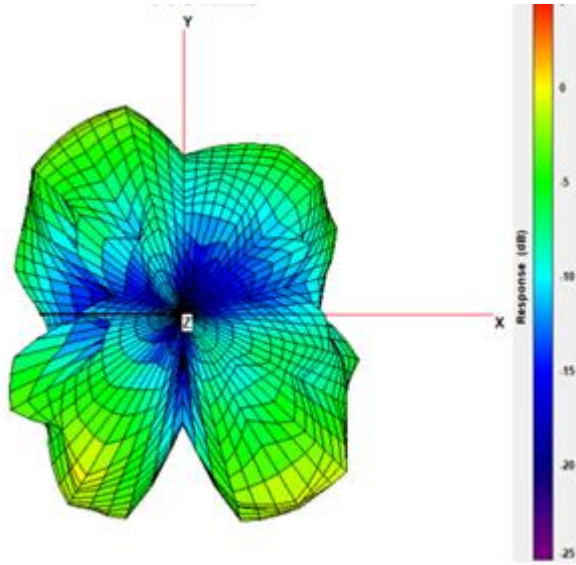
Aux antenna:



Horizontal+ Vertical (dBi) peak	0.26
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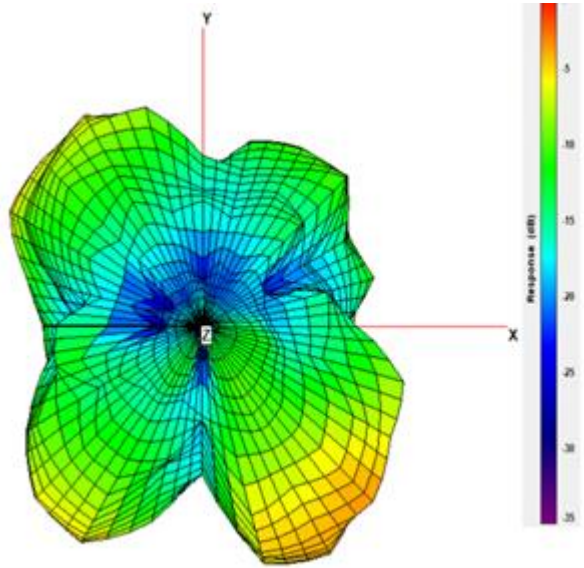
5925-6425MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	1.9
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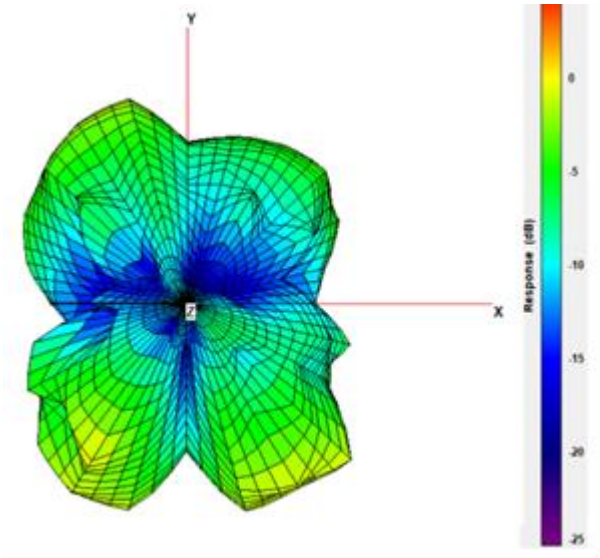
Aux antenna:



Horizontal+ Vertical (dBi) peak	1.38
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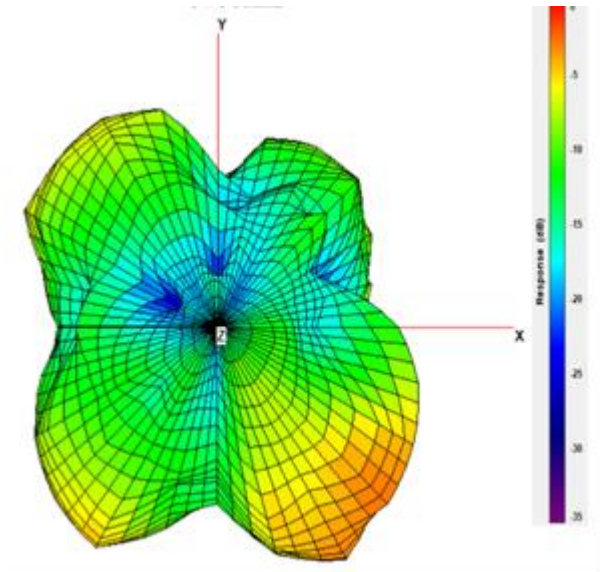
6425-6525MHz radiation characteristic (1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-1.07
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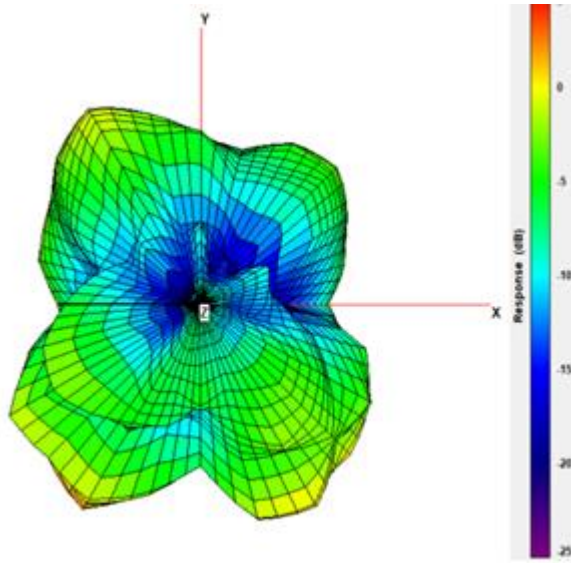
Aux antenna:



Horizontal+ Vertical (dBi) peak	-0.99
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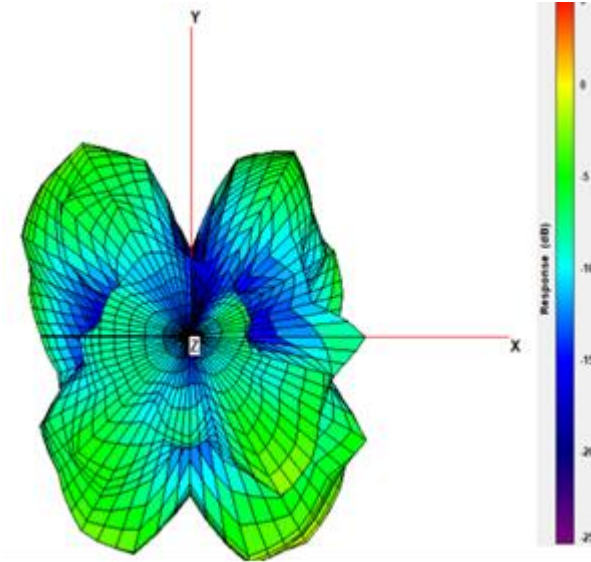
6525-6875MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-0.8
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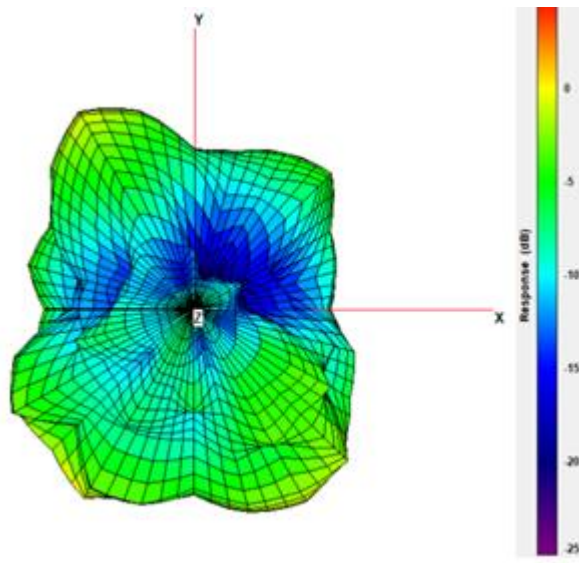
Aux antenna:



Horizontal+ Vertical (dBi) peak	-0.72
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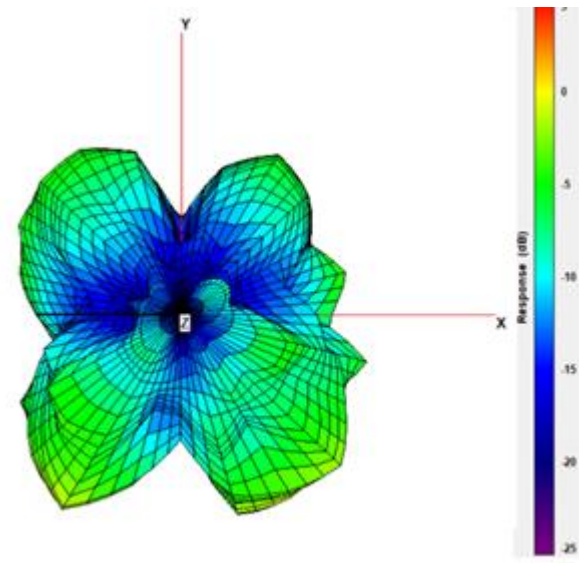
6875-7125MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	0.08
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Aux antenna:



Horizontal+ Vertical (dBi) peak	-0.06
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