

Character of BT

Antenna TYPE: Meander Monopole antenna Model:

WDAN-S1CA1002-DF

Cable: HON HAI PRECISIOIN. CO., LTD

Frequency range: 2400-2500MHz

Connector Type: UFL

Average of Gain: -4.86dBi

Peak of Gain: -0.63dBi

VSWR: 1.3MAX

Band width: 100MHZ(VSWR<3)

Center Frequency: 2.45GHZ

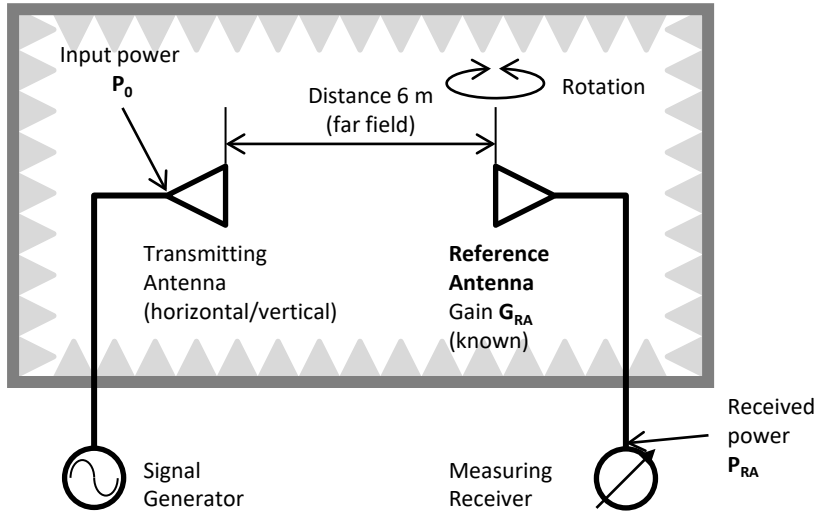
Manufacturer: FOXCONN

1. Measurement Procedure

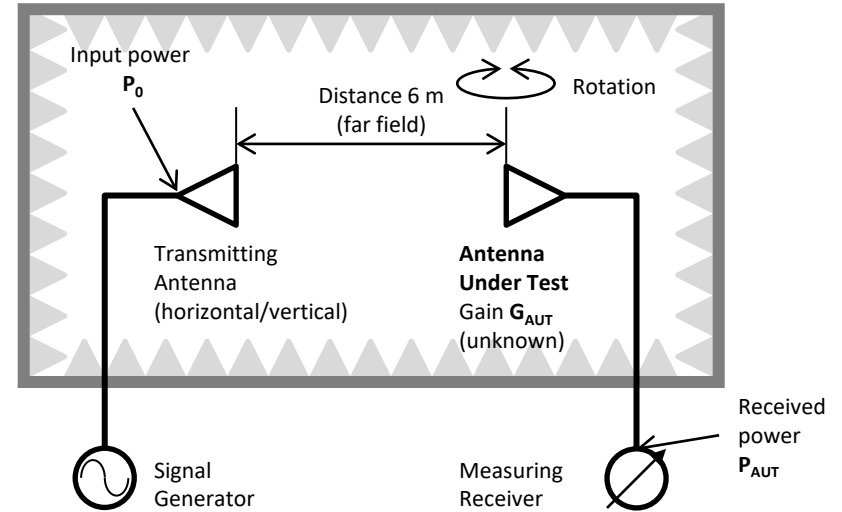
- The antenna gain is measured in a fully anechoic chamber and given as:

$$G_{\text{AUT}} [\text{dBi}] = G_{\text{RA}} [\text{dBi}] + (P_{\text{AUT}} [\text{dBm}] - P_{\text{RA}} [\text{dBm}])$$

Step 1: Reference Measurement



Step 2: Substitution Measurement



2. Test Equipment and Measurement Software

Test Equipment

Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	-	Absorber Chamber	B83117-CF454-T162	P26428	Albatross Projects GmbH	N/A	N/A	
Y	W0133	Synthesized Sweeper (0.01-26.5GHz)	83630B	3844A01237	Agilent Technologies	N/A	N/A	
Y	W0132	Synthesized Sweeper (0.01-20GHz)	83621B	3844A00353	Agilent Technologies	N/A	N/A	
Y	W0134	LO/IF Distribution Unit	85309A	3224A00484	Agilent Technologies	N/A	N/A	
Y	W0065	Microwave Receiver (45MHz-26.5GHz)	8530A	US41160226	Agilent Technologies	12 months	2017.03.16	
Y	W0131	Test Mixer Module (2-26.5GHz)	85320A	2944A00887	Agilent Technologies	N/A	N/A	
Y	W0064	Reference Mixer Module (2-26.5GHz)	85230B	2944A00786	Agilent Technologies	N/A	N/A	
Y	-	Directional Coupler (1-26.5GHz)	87300C	3239A01728	Hewlett Packard	N/A	N/A	
Y	-	Attenuator 20dB (DC-26.5GHz)	8493C	58730	Agilent Technologies	N/A	N/A	
Y	-	Attenuator 3dB (DC-18GHz)	8491B	50593	Agilent Technologies	N/A	N/A	
<ul style="list-style-type: none"> The calibration is valid until the end of the expiration month. 								

2. Test Equipment and Measurement Software

Test Equipment

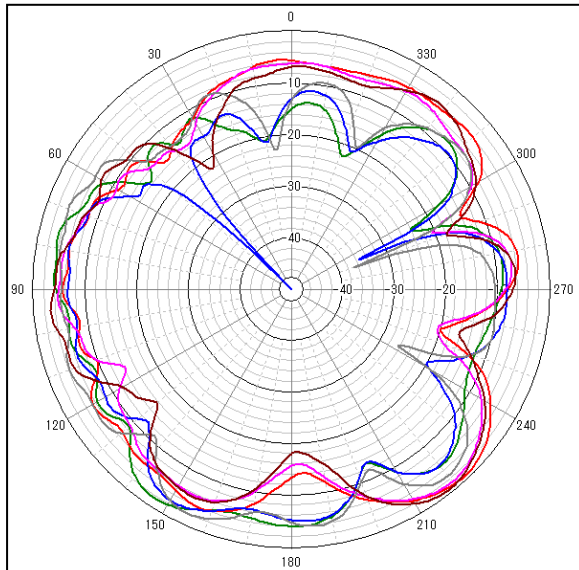
Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	A5032	Log-Periodic Antenna (0.3-5.0 GHz)	USLP9143	309	Schwarzbeck	N/A	N/A	Transmitting Antenna
Y	A5018	Dipole Antenna (2.3-2.6 GHz)	ASD-2450B	051509	Antenna Giken	N/A	N/A	Reference Antenna

Measurement Software

Used	Control No.	Software Description	Model No.	Version	Manufacturer	Remark
Y	-	Data Acquisition Software	TY2100AM	2.9.1	Toyo Corporation	
Y	-	Output Analysis Software	TY2100AO	1.15	Toyo Corporation	

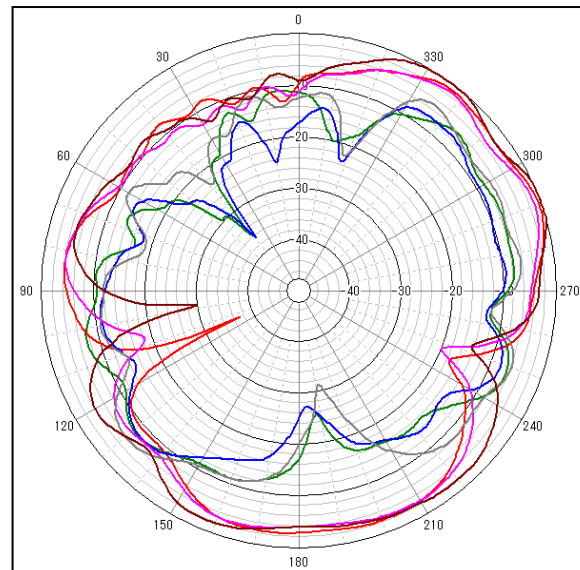
BT Antenna Pattern

X-Y



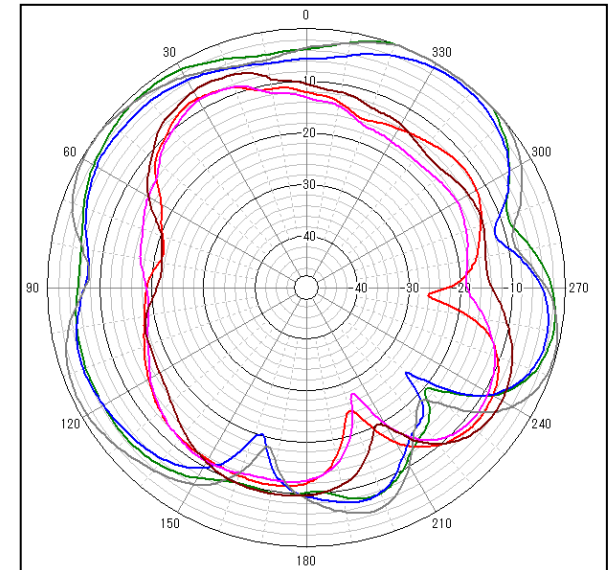
ファイル名	タイトル	周波数	偏波	ピーク	平均値 [dB]	
1	AMPS000F00H	Meas-2.4G-x	2.4000GHz	H	-1.732dB	-7.773dB
2	AMPS000F00V	Meas-2.4G-x	2.4000GHz	V	-0.806dB	-6.433dB
3	AMPS000F01H	Meas-2.4G-x	2.4500GHz	H	-2.945dB	-8.380dB
4	AMPS000F01V	Meas-2.4G-x	2.4500GHz	V	-1.577dB	-7.462dB
5	AMPS000F02H	Meas-2.4G-x	2.5000GHz	H	-2.273dB	-7.294dB
6	AMPS000F02V	Meas-2.4G-x	2.5000GHz	V	-0.755dB	-6.932dB

Y-Z



ファイル名	タイトル	周波数	偏波	ピーク	平均値 [dB]	
1	AMPS000F00H	Meas-2.4G-x	2.4000GHz	H	-6.597dB	-11.025dB
2	AMPS000F00V	Meas-2.4G-x	2.4000GHz	V	-0.473dB	-4.974dB
3	AMPS000F01H	Meas-2.4G-x	2.4500GHz	H	-7.669dB	-12.493dB
4	AMPS000F01V	Meas-2.4G-x	2.4500GHz	V	-1.226dB	-5.428dB
5	AMPS000F02H	Meas-2.4G-x	2.5000GHz	H	-5.290dB	-10.212dB
6	AMPS000F02V	Meas-2.4G-x	2.5000GHz	V	0.422dB	-4.050dB

Z-X



ファイル名	タイトル	周波数	偏波	ピーク	平均値 [dB]	
1	AMPS000F00H	Meas-2.4G-x	2.4000GHz	H	1.464dB	-3.735dB
2	AMPS000F00V	Meas-2.4G-x	2.4000GHz	V	-7.727dB	-12.555dB
3	AMPS000F01H	Meas-2.4G-x	2.4500GHz	H	-0.630dB	-5.166dB
4	AMPS000F01V	Meas-2.4G-x	2.4500GHz	V	-8.103dB	-13.267dB
5	AMPS000F02H	Meas-2.4G-x	2.5000GHz	H	1.311dB	-2.381dB
6	AMPS000F02V	Meas-2.4G-x	2.5000GHz	V	-5.942dB	-11.129dB

- Test Date:2017/06/15
- Test Institution: Sony Global Manufacturing & Operations Corporation
- Names of test personnel : Satoru Higashiyama (Sony Corporation)