# **Regulatory HMB/BT Antenna Information**

(English Language Required for Module Vendor Regulatory Review / Approval)

Platform info	rmation			
Brand	ODM	Platform model name	Platform type (ex: regular NB, convertible PC, AIOetc)	<sup>·</sup> SAR minimum separation (mm)
Sony	Inventec Appliances Corp.	SE01		
		Peak gain w/ cable loss (dBi)		
Vendor	Туре	Antenna Part number(Tx1)	Antenna Part number(Tx2)	2.4GHz
Pulse A YAGEO COMPANY	PIFA	6036A0196202 (TZ26573)	6036A0196202 (TZ26573)	-3.71
Module infor	mation <mark>(PIs ch</mark>	eck with "x" when appl	ies)	
Model	Form factor a	nd suffixes ( NGW/ HM)	W AND AN/ NB/ BN)	

# Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US/IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs <u>and</u> Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. <u>(S. Korea requires</u> photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	<u>Required</u> (Photos)	<u>Required</u> (Photos)
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

# **Antenna Information** Section 1. Antenna Assembly Specifications

1A	1B	1C	1D	1E	1F	1G	1H
Antenna Part Number	Manufacture	Antenna Type	Cable Assembly Part Number and Information	*Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	VSWR	Cable Loss (dBi)
6036A0196202 (TZ26573)Tx1 Antenna	Pulse (Suzhou) Wireless Products Co.,Ltd Address:99 HuoJu RD. SuZhou P.R. China	PIFA	None	2400-2500MHz -5.78 dBi (peak)	2400-2500MHz -5.58 dBi (peak)	2400-2500MHz 3.00 max	2400-2500MHz 0.20 dBi (peak)
6036A0196202 (TZ26573)Tx2 Antenna	Pulse (Suzhou) Wireless Products Co.,Ltd Address:99 HuoJu RD. SuZhou P.R. China	PIFA	None	2400-2500MHz -3.71 dBi (peak)	2400-2500MHz -3.51 dBi (peak)	2400-2500MHz 3.00 max	2400-2500MHz 0.20 dBi (peak)

•

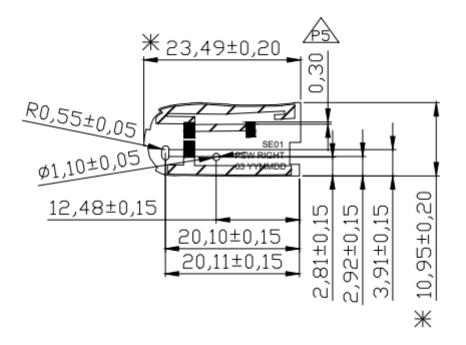
Antenna Peak Gain required being test in system basis. 1E frame contend absolutely peak antenna gain include H/V •

#### Antenna Peak Gain Table:

	Tx1 ar	ntenna	Tx2 Antenna		
	Horizontal	Vertical	Horizontal	Vertical	
Frequency (MHz)	(dBi)	(dBi)	(dBi)	(dBi)	
2400	-6.33	-9.27	-6.62	-3.71	
2450	-5.78	-10.33	-6.78	-5.00	
2500	-5.8	-10.38	-7.33	-6.25	

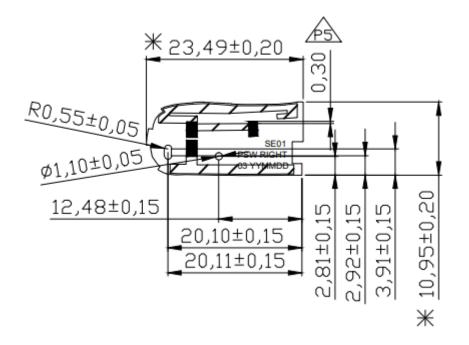
### Include a dimensioned photo and dimensioned drawing of Tx1 antenna here.

#### Tx1 Antenna Dimensioned Drawing:



Include a dimensioned photo and dimensioned drawing of Tx2 antenna here.

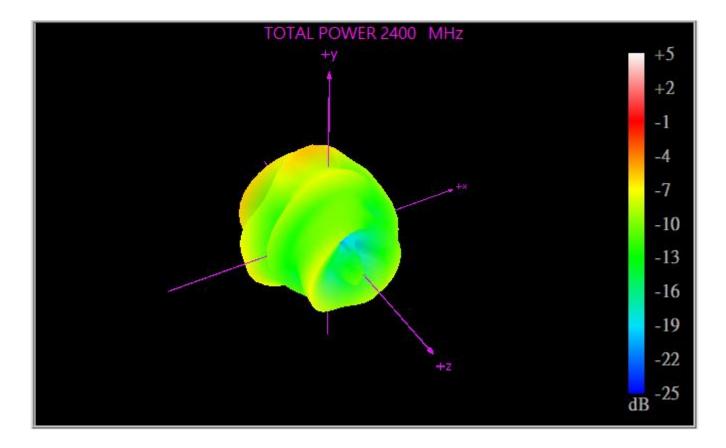
#### Tx2 Antenna Dimensioned Drawing:



# Section 3. Radiation characteristics of antennae Loaded in Host Platform

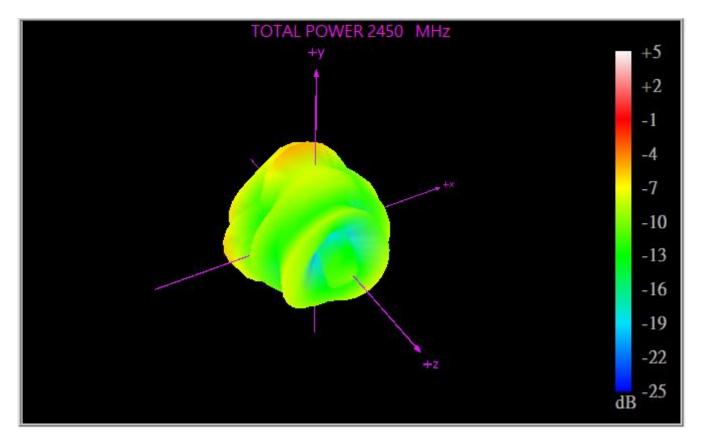
#### 2400-2500MHz radiation characteristic

#### Tx1 antenna: 2400 MHz



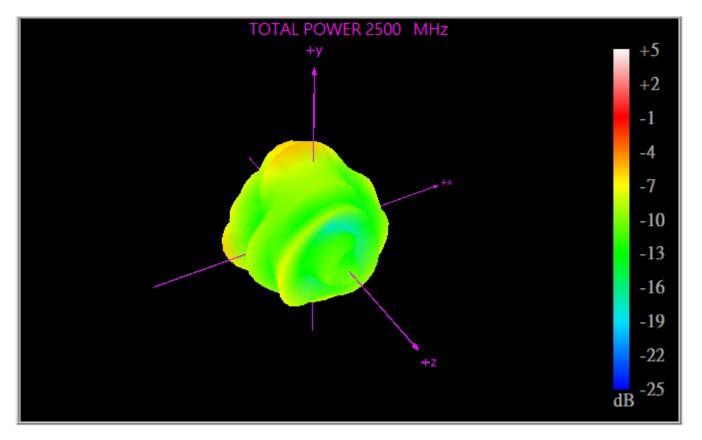
Center Frequency	2400 MHz
Horizontal (dBi) peak	-6.33
Vertical (dBi) peak	-9.27

#### Tx1 antenna: 2450 MHz

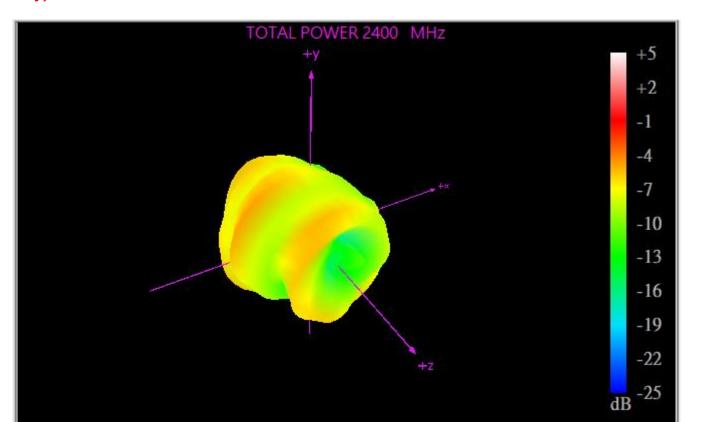


Center Frequency	2450 MHz
Horizontal (dBi) peak	-5.78
Vertical (dBi) peak	-10.33

#### Tx1 antenna: 2500 MHz

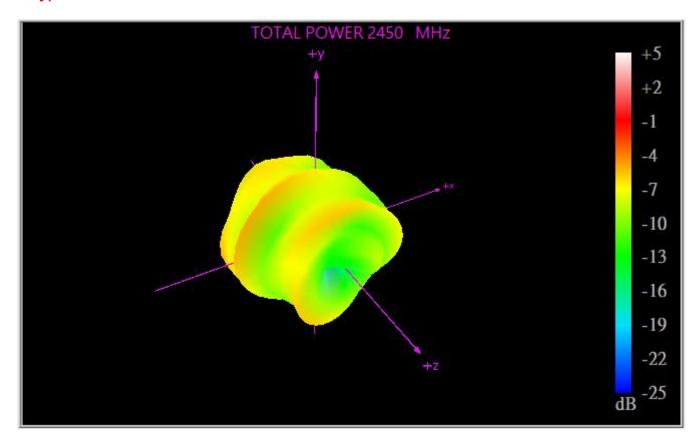


Center Frequency	2500 MHz
Horizontal (dBi) peak	-5.8
Vertical (dBi) peak	-10.38



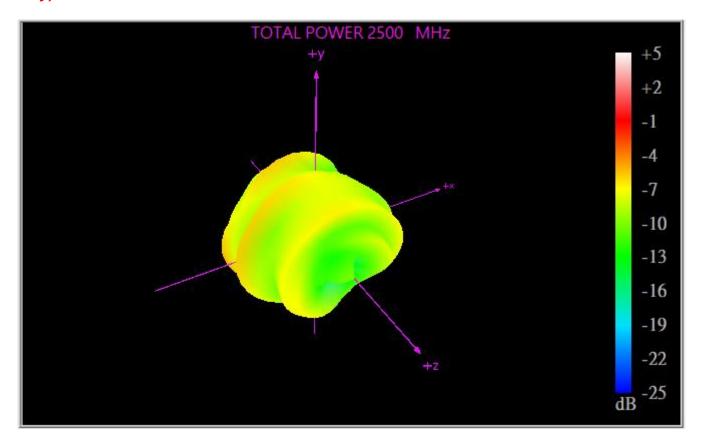
Tx2 (or Rx2) antenna: 2400 MHz (Plot is not required if 2 <sup>nd</sup> Antenna is receive only e.g. Rx2 for 512
family)

Center Frequency	2400 MHz
Horizontal (dBi) peak	-6.62
Vertical (dBi) peak	-3.71



Tx2 (or Rx2) antenna: 2450 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)

Center Frequency	2450 MHz
Horizontal (dBi) peak	-6.78
Vertical (dBi) peak	-5.00



Tx2 (or Rx2) antenna: 2500 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)

Center Frequency	2500 MHz
Horizontal (dBi) peak	-7.33
Vertical (dBi) peak	-6.25

Doc.No.:3.8.05 Rev – 8.0 draft
Section 4. Host Platform Information

OEM / ODM Host platform: (XXXXXX) platform correlated to antenna data <u>Rating Label Photo:</u>

# Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo(s) or dimensioned drawing(s)** of Tx1, Tx2 and Tx3 antenna placements (measurements are not required for <u>receive-only</u> antenna). Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

## Section 6. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo(s) or dimensioned drawing(s)** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, and ankle). For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

## Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between <u>all WLAN transmit antennas</u> and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

# Section 8. Local representative contact information

# Local representative contact information is required for regulatory support for target countries below.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Azerbaijan						
Cambodia						
Indonesia						
Israel						
Malaysia						
Philippines						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						
Vietnam						