

Page 1 of 61

# FCC Test Report

## Report No.: AGC00796180601FE03

FCC ID		: WTD-L05
APPLICA	ATION PURPOSE	: Original Equipment
PRODUC	CT DESIGNATION	: Bluetooth Headset
BRAND	NAME	: Dacom
MODEL	NAME	: See Page 4
CLIENT		: Shenzhen Sande Dacom Electronics Co., Ltd.
DATE OF	FISSUE	: Jul 04, 2018
STANDA TEST PR	RD(S) ROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
REPORT	VERSION	: V1.0

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jul.04, 2018	Valid	Initial release

#### **Report Revise Record**

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1. VERIFICATION OF CONFORMITY

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#### Applicant Shenzhen Sande Dacom Electronics Co., Ltd. 2/4/5F, Building I, NO.10 East Area of ShangXue Science&Technology Industrial Address Park, BanTian street, LongGang district, Shenzhen, China Manufacturer Shenzhen Sande Dacom Electronics Co., Ltd. 2/4/5F, Building I, NO.10 East Area of ShangXue Science&Technology Industrial Address Park, BanTian street, LongGang district, Shenzhen, China Product Designation **Bluetooth Headset** Brand Name Dacom Test Model L05 G06, L08, G18, P10, P10-MP3, HF002, Dacom G26, TRITINA LIFESPORTER, Series Model IPUDIS IG26(IPX7) Difference description All the same except for the model name.

Date of test Jun. 21, 2018 to Jun. 28, 2018 Deviation None Condition of Test Sample Normal AGCRT-US-BR/RF Report Template We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Zhano Herry

Henry Zhang(Zhang Zhuorui) Jun. 28, 2018

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**Reviewed By** 

Tested By

Cool Cheng(Cheng Mengguo)

Jul. 04, 2018

Forversto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jul. 04, 2018

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#### 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following	ajor technical description of EL	JT is described a	as following
--	----------------------------------	-------------------	--------------

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
Bluetooth Version	V4.1
Modulation	BR $\square$ GFSK, EDR $\square \pi$ /4-DQPSK, $\square$ 8DPSK BLE $\square$ GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1
Software Version	V1 A Barrier C Barrier C Barrier C
Antenna Designation	Ceramic Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery

#### 2.2. TABLE OF CARRIER FREQUENCYS

#### **BR/EDR** channel List

Frequency Band	Channel Number	Frequency	
A GC M	0	2402MHz	
	1 I I I I I I I I I I I I I I I I I I I	2403MHz	
	C C		
	38	2440 MHz	
2400~2483.5MHz	39	2441 MHz	
	40	2442 MHz	
	77	2479 MHz	
	78	2480 MHz	

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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$ U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. - Uncertainty of Conducted Emission, Uc =  $\pm$ 3.2 dB

- Uncertainty of Radiated Emission below 1GHz,  $Uc = \pm 3.9 \text{ dB}$ 

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

		-mil	The states	antestat
NO.		TEST MODE DESCRIPTIO	N	
C The Deal Course	B Auton of Golden C	Low channel GFSK		
2 2	SCO	Middle channel GFSK	A The State	Compliance
3	THE THE	High channel GFSK	Cu C	
4	C # Cobal Cobal Color	Low channel π /4-DQPS		
© 5 not clean	C C	Middle channel $\pi$ /4-DQPS	SK 💦	下格
6		High channel π /4-DQPSI	K Franciscom	Franci Global
7	Hanne B Francisco	Low channel 8DPSK	Attesta C	
A Barbarrow 8 0 B March	CO Martin	Middle channel 8DPSK		-111
90		High channel 8DPSK	T	a Compliance
10	the man	BT Link	C Allestation of C	A.C.

#### 4. DESCRIPTION OF TEST MODES

#### Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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81ueTest3		Software Settin	ng	4	
est Mode	Test	Arguments —			
PAUSE RADIO STATUS	L0	Freq. (MHz)	2402		Close
RADIO STATUS FULL	Po	ver (Ext, Int)	255	50	
TXSTART TXDATA1		er (bat, 1111)	200	100	Execute
IXDATA2 IXDATA3					
FXDATA4					Cold Reset
XXSTART1 XXSTART2					
RXDATA1					Warm Reset
est Results					
🕅 Save to file	Browse for file	Displ	ay: 🕡	Standard	C Bit Error
. \logfile. txt					
A The second sec	G Ramon Contraction				And

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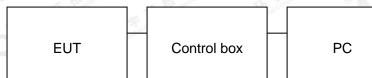
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#### 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

#### Configure 2: (Control continuous TX)



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Headset	Dacom	L05	EUT
2	Battery	ННХ	701125	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	IPOD	APPLE	A1367	A.E
6	USB Cable	N/A	1m unshielded	A.E

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#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

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#### 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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### 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

#### 8. TEST EQUIPMENT LIST

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
Antenna	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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### 9. RADIATED EMISSION

#### 9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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#### 9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP
Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP

The following table is the setting of spectrum analyzer and receiver.

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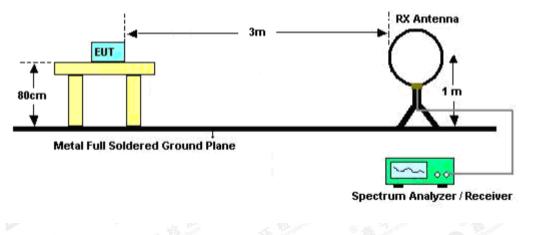




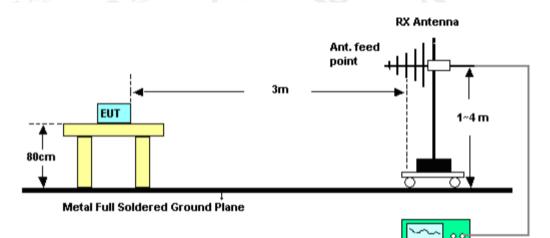
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#### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



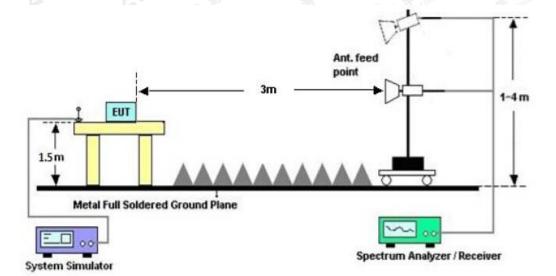
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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9.4. TEST RESULT FOR BR/EDR (Worst modulation: GFSK)

#### **RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz.

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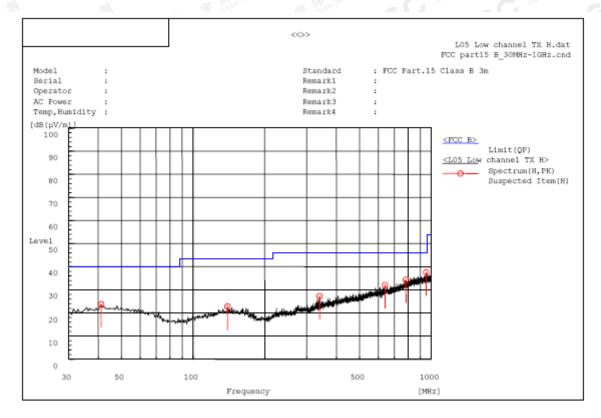


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#### **RADIATED EMISSION BELOW 1GHz**

#### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL

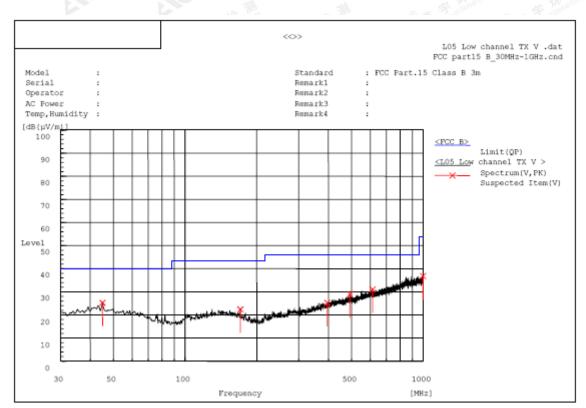


#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.155	Н	6.4	17.4	23.8	40.0	16.2	Pass	100.0	324.1
139.610	Н	6.2	16.6	22.8	43.5	20.7	Pass	100.0	252.7
339.915	н	8.7	18.5	27.2	46.0	18.8	Pass	200.0	51.8
639.645	Н	6.5	25.5	32.0	46.0	14.0	Pass	200.0	268.3
783.205	н	6.0	28.3	34.3	46.0	11.7	Pass	150.0	72.1
952.470	н	6.8	30.7	37.5	46.0	8.5	Pass	200.0	268.3

#### **RESULT: PASS**

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#### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
45.035	v	8.0	17.3	25.3	40.0	14.7	Pass	150.0	288.4
170.650	v	6.6	15.8	22.4	43.5	21.1	Pass	200.0	71.2
395.690	v	4.6	20.6	25.2	46.0	20.8	Pass	200.0	287.5
491.720	v	6.3	22.7	29.0	46.0	17.0	Pass	200.0	142.6
612.000	v	5.9	25.1	31.0	46.0	15.0	Pass	150.0	216.3
997.575	v	5.7	31.1	36.8	54.0	17.2	Pass	150.0	145.6

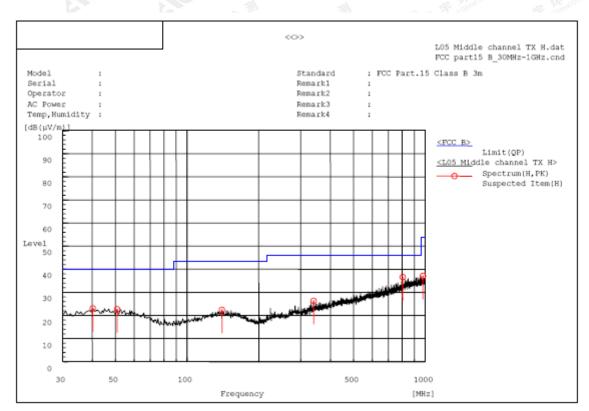
#### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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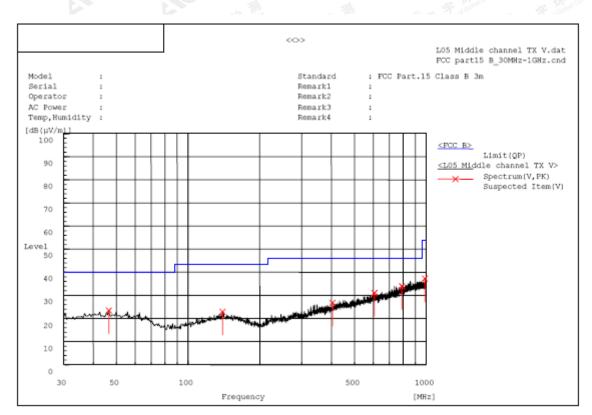
#### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(u∀)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
40.185	Н	5.6	17.4	23.0	40.0	17.0	Pass	150.0	324.1
50.855	Н	5.7	17.0	22.7	40.0	17.3	Pass	100.0	303.6
140.095	н	5.8	16.6	22.4	43.5	21.1	Pass	200.0	72.6
339.915	Н	7.8	18.5	26.3	46.0	19.7	Pass	150.0	288.4
804.060	Н	7.8	28.8	36.6	46.0	9.4	Pass	150.0	107.1
977.690	н	6.2	30.9	37.1	54.0	16.9	Pass	150.0	107.1

#### **RESULT: PASS**

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#### RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL

#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
46.490	v	6.2	17.2	23.4	40.0	16.6	Pass	150.0	36.6
139.610	v	6.3	16.6	22.9	43.5	20.6	Pass	150.0	73.0
403.935	v	5.8	20.9	26.7	46.0	19.3	Pass	150.0	287.9
605.695	v	6.0	25.0	31.0	46.0	15.0	Pass	150.0	143.7
790.480	v	5.5	28.5	34.0	46.0	12.0	Pass	100.0	2.3
987.390	v	6.3	31.0	37.3	54.0	16.7	Pass	200.0	20.6

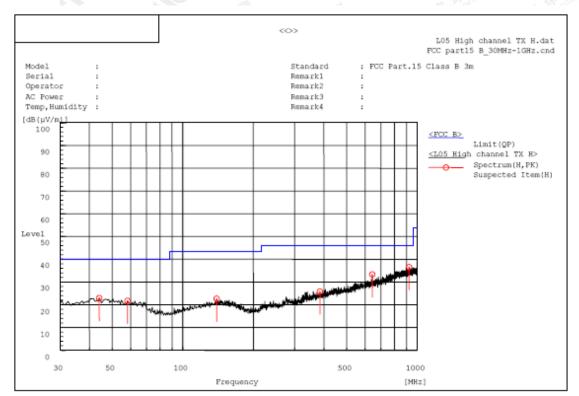
#### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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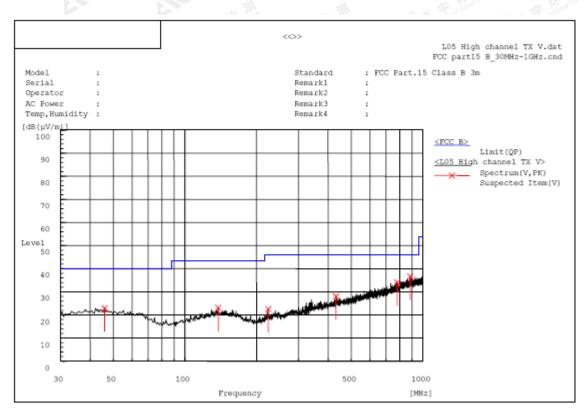
#### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

#### A. Suspected List:

Frequency MHz	Polarization			Margin dB	Pass/Fail	Height cm	Angle deg		
44.065	н	5.6	17.3	22.9	40.0	17.1	Pass	100.0	71.4
58.130	н	5.3	16.4	21.7	40.0	18.3	Pass	100.0	215.6
139.610	н	6.1	16.6	22.7	43.5	20.8	Pass	150.0	180.6
384.535	Н	5.6	20.2	25.8	46.0	20.2	Pass	100.0	107.8
643.525	н	7.8	25.5	33.3	46.0	12.7	Pass	150.0	289.8
922.400	н	6.1	30.4	36.5	46.0	9.5	Pass	200.0	158.2

#### **RESULT: PASS**

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#### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
46.005	v	5.6	17.3	22.9	40.0	17.1	Pass	200.0	143.7
138.155	v	6.4	16.6	23.0	43.5	20.5	Pass	100.0	94.4
224.000	v	7.4	15.1	22.5	46.0	23.5	Pass	150.0	287.9
431.580	v	6.3	21.7	28.0	46.0	18.0	Pass	100.0	58.0
780.295	v	5.7	28.3	34.0	46.0	12.0	Pass	150.0	72.3
885.055	v	6.6	30.0	36.6	46.0	9.4	Pass	100.0	94.4

#### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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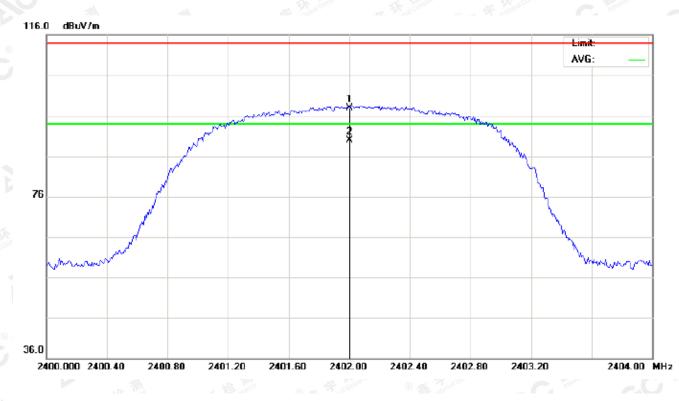
#### **RADIATED EMISSION ABOVE 1GHz**

FOR BR/EDR

(Worst modulation: GFSK)

#### For Fundamental

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



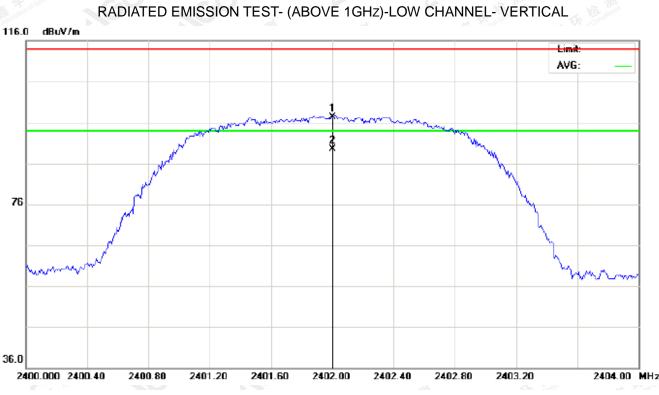
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	87.51	10.32	97.83	114.00	-16.17	peak			
2	*	2402.000	79.56	10.32	89.88	94.00	-4.12	AVG	100	163	

#### **RESULT: PASS**

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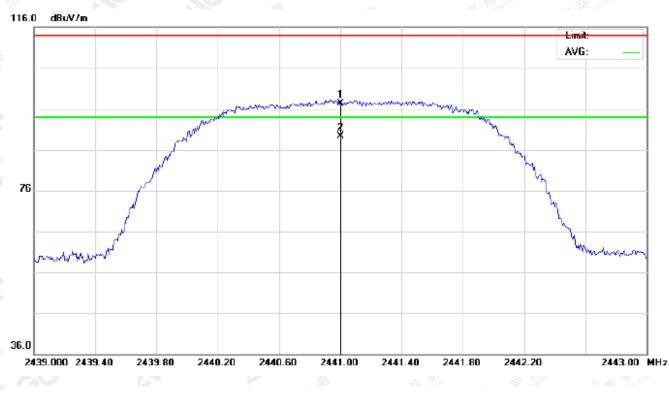


N	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2402.000	87.04	10.32	97.36	114.00	-16.64	peak			
2	*	2402.000	79.10	10.32	89.42	94.00	-4.58	AVG	100	333	

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

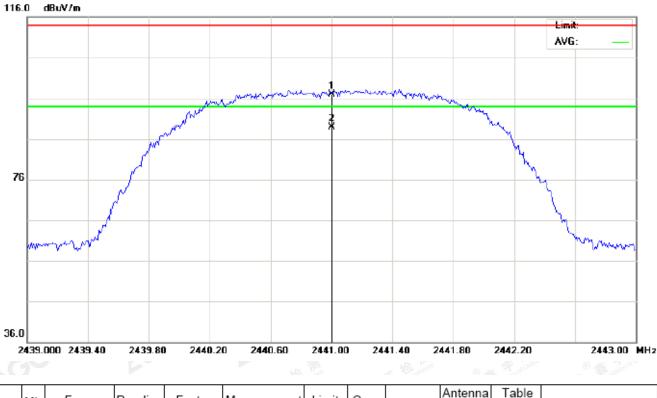
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
1	-	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2441.000	86.93	10.36	97.29	114.00	-16.71	peak			
2	*	2441.000	78.97	10.36	89.33	94.00	-4.67	AVG	100	162	

**RESULT: PASS** 

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	86.53	10.36	96.89	114.00	-17.11	peak			
2	*	2441.000	78.49	10.36	88.85	94.00	-5.15	AVG	100	339	

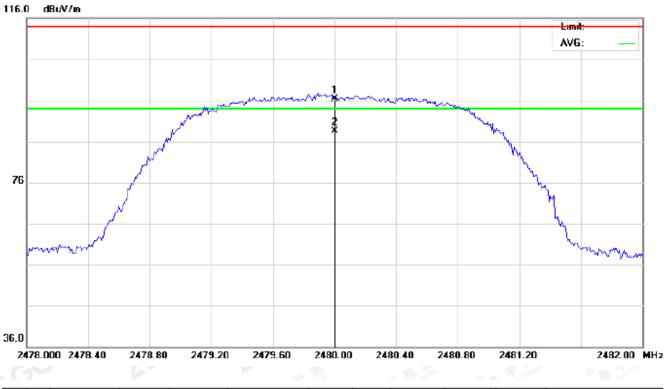
**RESULT: PASS** 

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RADIATED EMISSION TE	EST- (ABOVE 10	GHz)-HIGH CHANN	<b>IEL-HORIZONTAL</b>

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	85.96	10.41	96.37	114.00	-17.63	peak			
2	*	2480.000	78.06	10.41	88.47	94.00	-5.53	AVG	100	168	

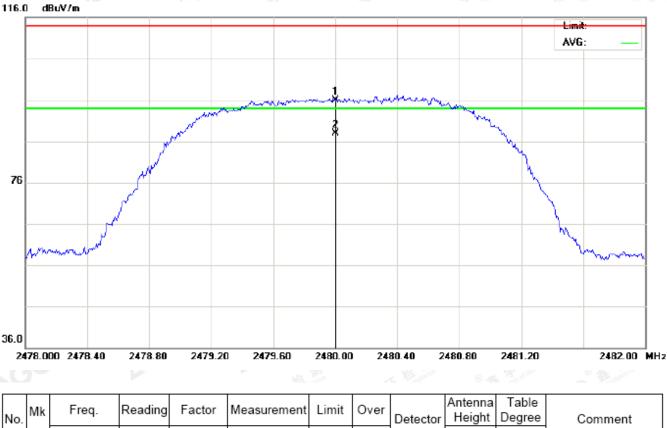
**RESULT: PASS** 

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	85.56	10.41	95.97	114.00	-18.03	peak			
2	*	2480.000	77.49	10.41	87.90	94.00	-6.10	AVG	100	338	

#### **RESULT: PASS**

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Field strength of the fundamental signal

#### 1Mbps Result:

Peak value

Frequency	Reading Level Factor		Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.51	10.32	97.83	114	-16.17	Horizontal	
2402	87.04	10.32	97.36	114	-16.64	Vertical	
2441	86.93	10.36	97.29	114 🐋	-16.71 🙀	Horizontal	
2441	86.53	10.36	96.89	114	-17.11	Vertical	
2480	85.96	10.41	96.37	114	-17.63	Horizontal	
2480	85.56	10.41	95.97	114	-18.03	Vertical	

#### Average value

Frequency	Reading Level Facto				Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.56	10.32	89.88	94	-4.12	Horizontal	
2402	79.10	10.32	89.41	94	-4.58	Vertical	
2441	78.97	10.36	89.33	94	-4.67	Horizontal	
2441	78.49	10.36	88.85	94	-5.15	Vertical	
2480	78.06	10.41	88.47	94	-5.53	Horizontal	
2480	77.49	10.41	87.90	94	-6.10	Vertical	

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#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.06	10.32	97.38	114	-16.62	Horizontal	
2402	86.61	10.32	96.93	114	-17.07	Vertical	
2441	86.45	10.36	96.81	114	-17.19	Horizontal	
2441	86.09	10.36	96.45	114	-17.55	Vertical	
2480	85.55	10.41	95.96	114	-18.04	Horizontal	
2480	85.16	10.41	95.57	114	-18.43	Vertical	

#### Average value

Frequency	Reading Level Facto		Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.06	10.32	89.38	94	-4.62	Horizontal	
2402	78.64	10.32	88.96	94	-5.04	Vertical	
2441	78.51	10.36	88.87	94	-5.13	Horizontal	
2441	78.05	10.36	88.41	94	-5.59	Vertical	
2480	77.65	10.41	88.06	94	-5.94	Horizontal	
2480	77.05	10.41	87.46	94	-6.54	Vertical	

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#### 3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.58	10.32	96.90	114	-17.10	Horizontal	
2402	86.11	10.32	96.43	114	-17.57	Vertical	
2441	86.04	10.36	96.40	114	-17.60	Horizontal	
2441	85.67	10.36	96.03	114	-17.97 👝	Vertical	
2480	85.08	10.41	95.49	114	-18.51	Horizontal	
2480	84.69	10.41	95.10	114	-18.90	Vertical	

#### Average value

Frequency	Reading Level			Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.60	10.32	88.92	94	-5.08	Horizontal	
2402	78.15	10.32	88.47	94	-5.53	Vertical	
2441	78.08	10.36	88.44	94	-5.56	Horizontal	
2441	77.58	10.36	87.94	94	-6.06	Vertical	
2480	77.22	10.41	87.63	94	-6.37	Horizontal	
2480	76.65	10.41	87.06	94	-6.94	Vertical	

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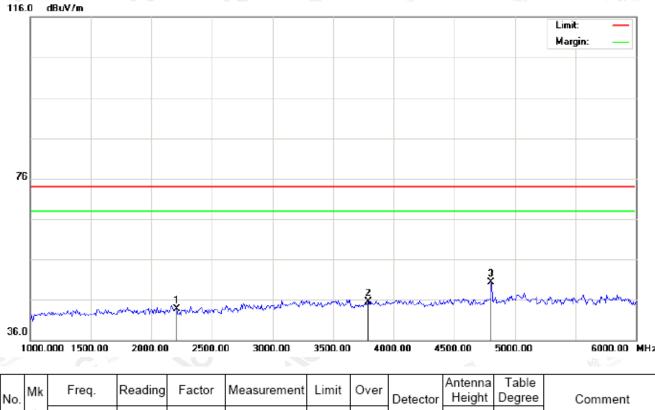
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#### FOR BR/EDR

#### (Worst modulation: GFSK)

#### For Harmonics

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	MK	Fleq.	Reading	Factor	weasurement	Limit	Over	Detector	Height	Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2208.333	33.67	10.11	43.78	74.00	-30.22	peak			
2		3791.667	31.52	13.91	45.43	74.00	-28.57	peak			
3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

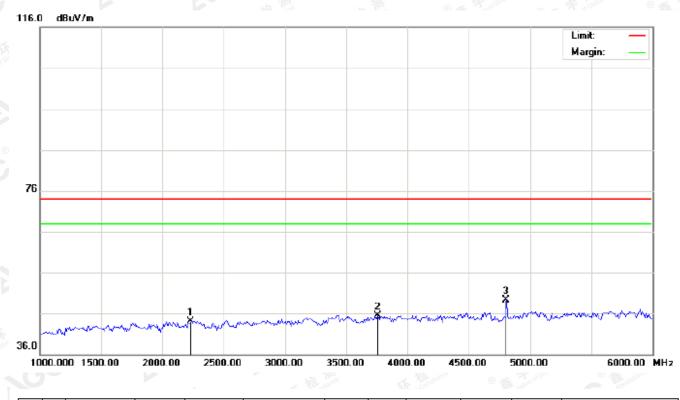
#### RESULT: PASS

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

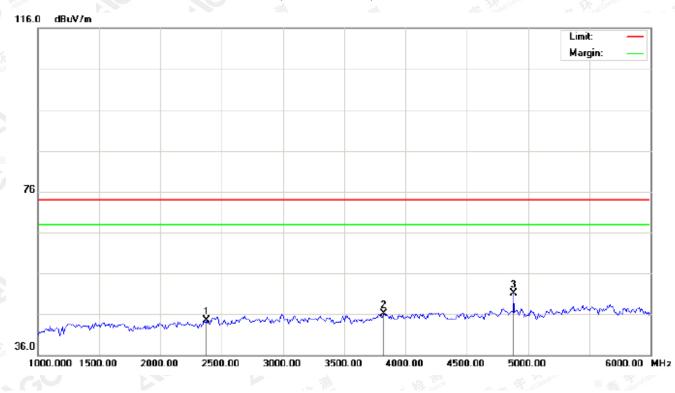
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
ſ	1		2233.333	34.05	10.14	44.19	74.00	-29.81	peak			
	2		3758.333	31.71	13.70	45.41	74.00	-28.59	peak			
	3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

**RESULT: PASS** 

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

No	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1		2375.000	34.18	10.29	44.47	74.00	-29.53	peak			
	2		3825.000	31.90	14.11	46.01	74.00	-27.99	peak			
	3	*	4882.000	43.16	7.89	51.05	74.00	-22.95	peak			

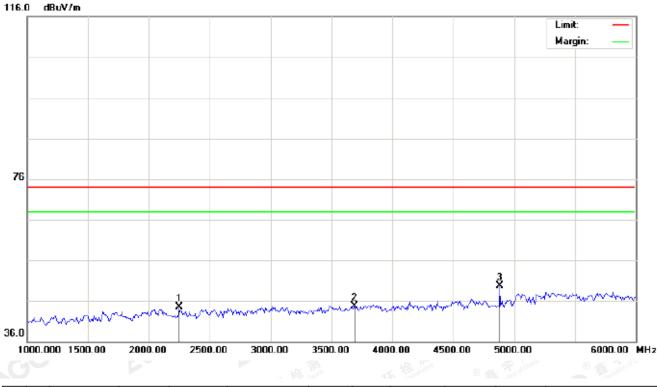
**RESULT: PASS** 

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

No.	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2250.000	34.33	10.15	44.48	74.00	-29.52	peak			
2		3691.667	31.51	13.29	44.80	74.00	-29.20	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

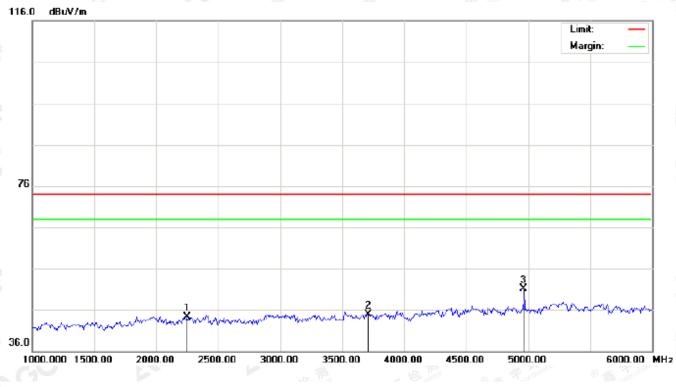
**RESULT: PASS** 

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#### RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

No.	No. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2250.000	34.13	10.15	44.28	74.00	-29.72	peak			
2		3708.333	31.59	13.39	44.98	74.00	-29.02	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

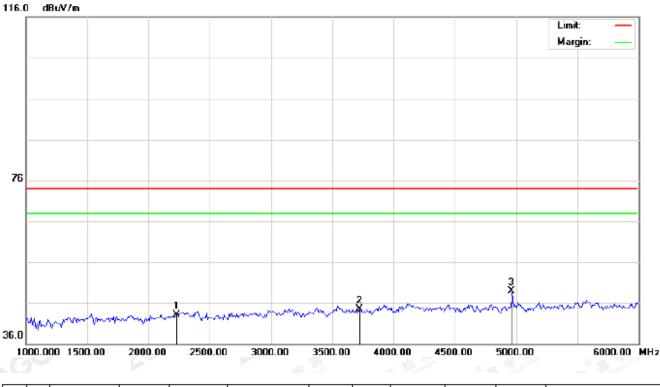
**RESULT: PASS** 

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## RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2233.333	33.03	10.14	43.17	74.00	-30.83	peak			
2		3725.000	30.92	13.50	44.42	74.00	-29.58	peak			
3	*	4960.000	40.91	8.09	49.00	74.00	-25.00	peak			

#### **RESULT: PASS**

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## **10. BAND EDGE EMISSION**

#### 10.1. MEASUREMENT PROCEDURE

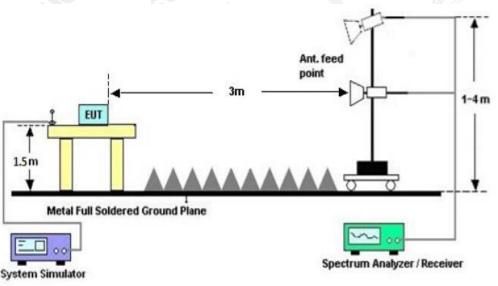
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start	frequency(MH	z)	Stop frequency(MHz)				
The second	2200	South Contraction	not C The station	2405	SCC -		
C Treasulton of Circles	2478	C Allestation of Gird	GO	2500			

#### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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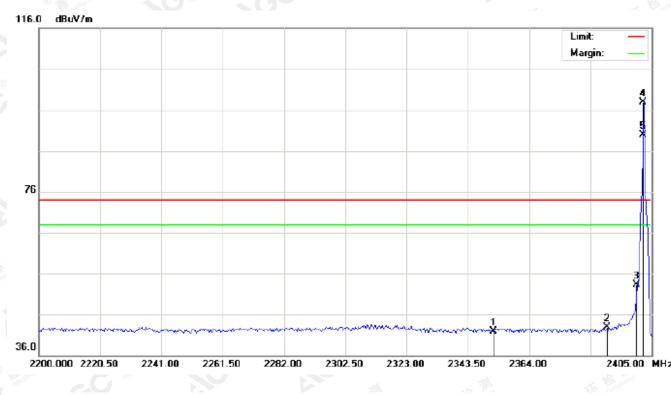
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## **10.3 RADIATED TEST RESULT**

#### FOR BR/EDR

#### (Worst modulation: GFSK)

#### TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1		2352.042	31.69	10.27	41.96	74.00	-32.04	peak			
Γ	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
Γ	3		2400.000	42.97	10.32	53.29	74.00	-20.71	peak			
	4	*	2402.000	87.55	10.32	97.87	74.00	23.87	peak			
	5	Х	2402.000	79.60	10.32	89.92	74.00	15.92	AVG	100	169	

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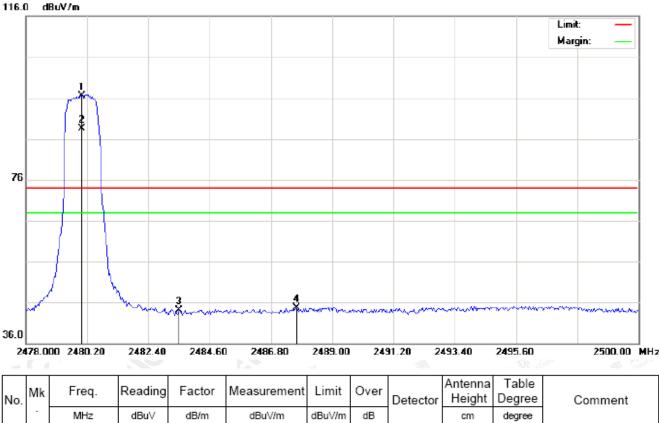
#### TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

2353.408 32.60 10.27 42.87 74.00 -31.13 1 peak 2390.000 32.21 10.31 42.52 74.00 2 -31.48 peak 2400.000 36.56 10.32 46.88 74.00 27.12 3 peak 2402.000 10.32 74.00 4 87.09 97.41 23.41 peak 5 Х 2402.000 79.07 10.32 89.39 74.00 15.39 AVG 100 336

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#### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

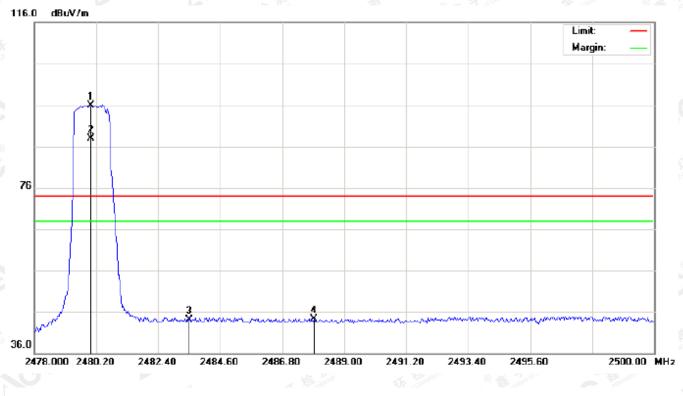
No. <sup>N</sup>	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector Height L		Comment	
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	86.00	10.41	96.41	74.00	22.41	peak			
2	Х	2480.000	78.10	10.41	88.51	74.00	14.51	AVG	100	167	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2487.716	34.18	10.42	44.60	74.00	-29.40	peak			

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#### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	85.54	10.41	95.95	74.00	21.95	peak			
Γ	2	Х	2480.000	77.53	10.41	87.94	74.00	13.94	AVG	100	334	
	3		2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
	4		2487.937	33.87	10.42	44.29	74.00	-29.71	peak			

### **RESULT: PASS**

**Note**: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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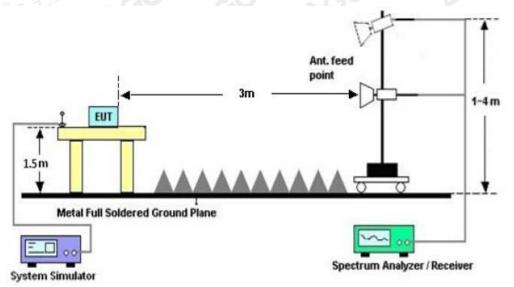
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## 11. 20DB BANDWIDTH

#### **11.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

## 11.2. TEST SET-UP



## **11.3. LIMITS AND MEASUREMENT RESULTS**

## FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Desult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The Constant of Reconstant	Low Channel	0.925	1.091	PASS				
N/A	Middle Channel	0.921	1.099	PASS				
The second second	High Channel	0.935	1.084	PASS				

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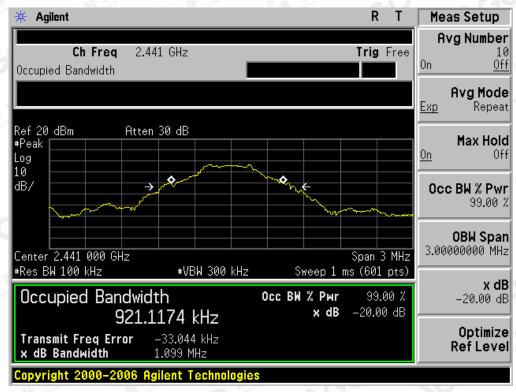


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET									
BLOLIN		OOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result							
Applicable Limits									
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The the man	Low Channel	1.202	1.366	PASS					
N/A	Middle Channel	1.205	1.369	PASS					
GG M	High Channel	1.208	1.358	PASS					

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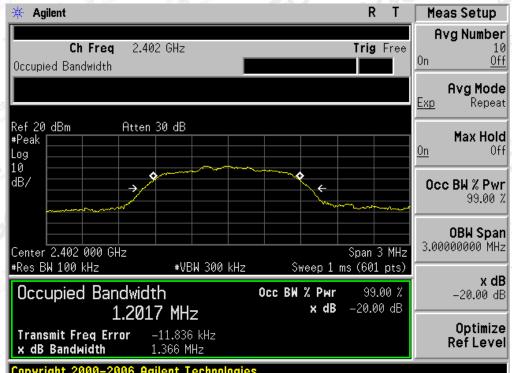
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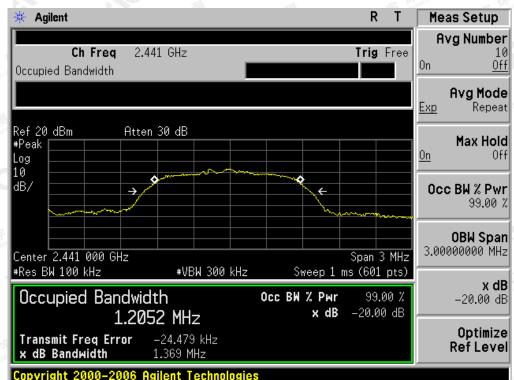
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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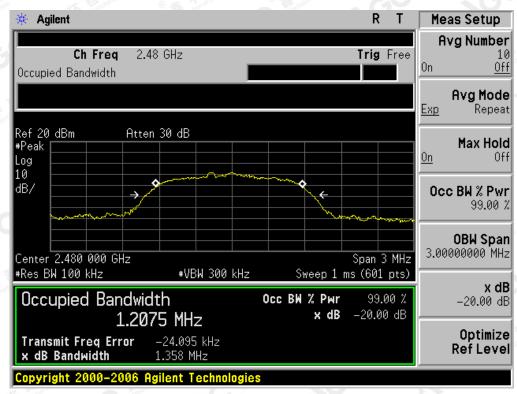




## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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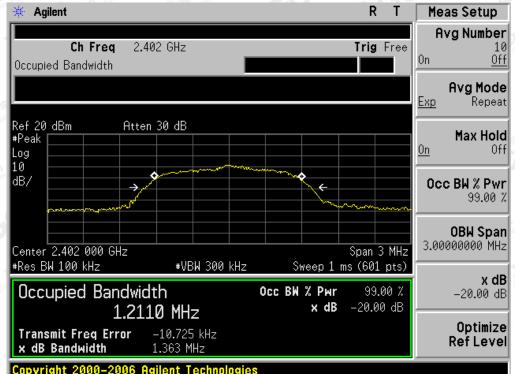
#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET	OOTH 3MBPS LIN	ITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		Dec. II							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The the man	Low Channel	1.211	1.363	PASS					
N/A	Middle Channel	1.208	1.342	PASS					
	High Channel	1.205	1.358	PASS					

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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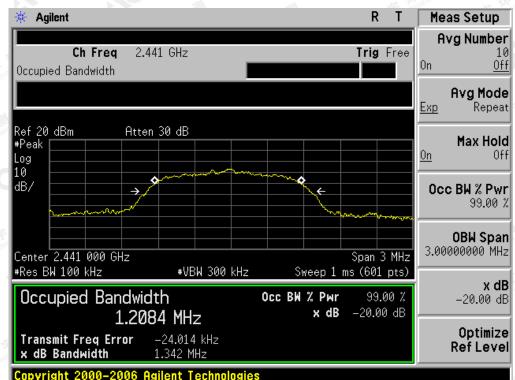
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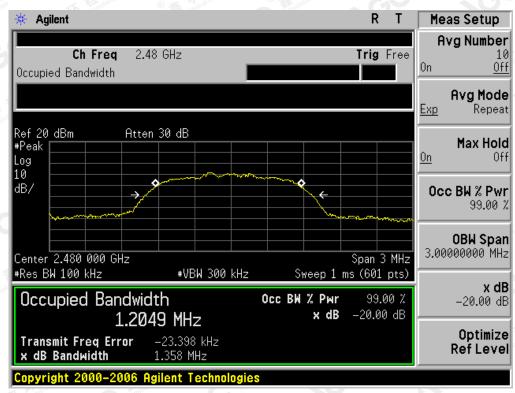
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## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## **12. FCC LINE CONDUCTED EMISSION TEST**

## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

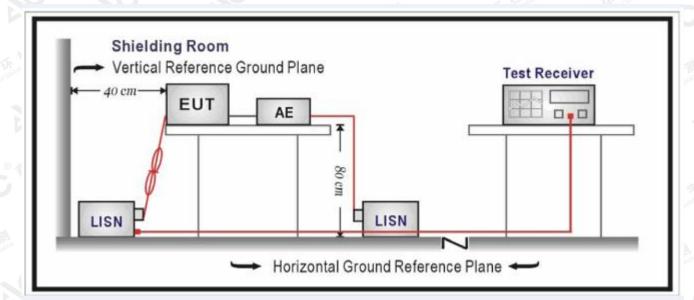
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.( dBuV)	Average( dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

#### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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#### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

## 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

## 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

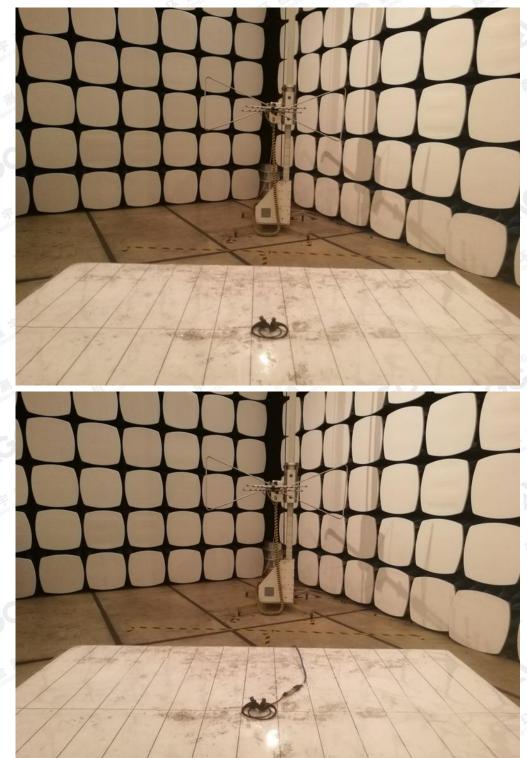
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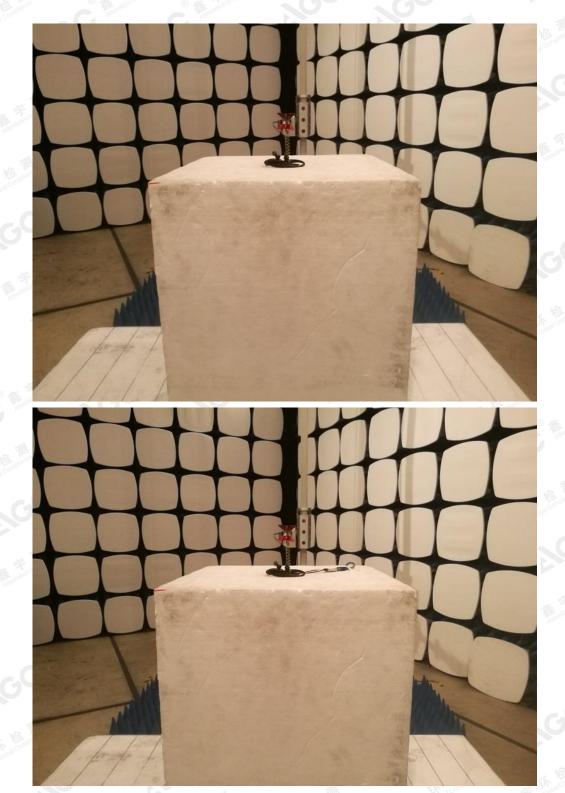
APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



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00 -90 0 6.0 0 9 10 20 10 50 30 07 05 09 10 50 30 07 09 09 04 40 30 07 05 50 09 01 08 0.9 06 09 08 01

## APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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#### FRONT VIEW OF EUT



#### BACK VIEW OF EUT



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## LEFT VIEW OF EUT



#### **RIGHT VIEW OF EUT**



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# VIEW OF EUT (PORT)





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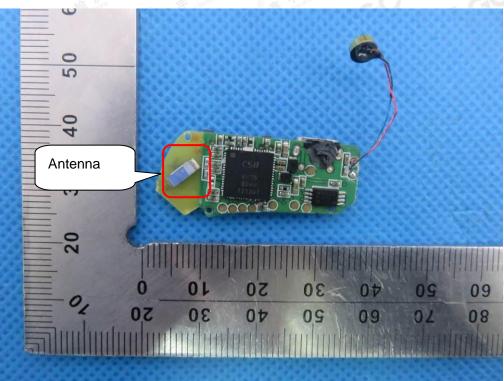


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#### VIEW OF BATTERY



#### **INTERNAL VIEW OF EUT-1**



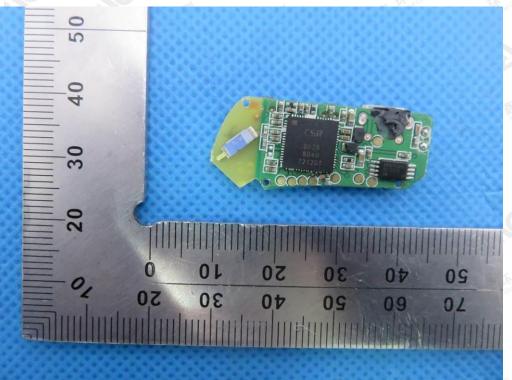
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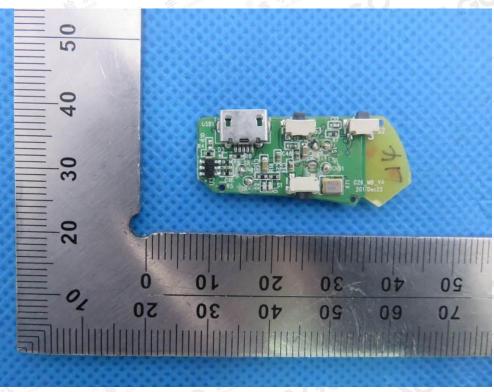


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#### **INTERNAL VIEW OF EUT-3**

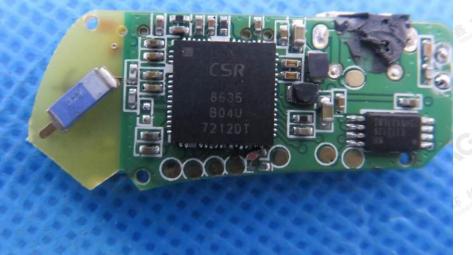


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## **INTERNAL VIEW OF EUT-4**



## ---END OF REPORT----

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