

# **FCC Test Report**

Report No.: AGC01559180509FE03

**FCC ID** : 2AANZ1311

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: WATER-RESISTANT WIRELESS SPEAKER

**BRAND NAME** : BODY GLOVE

**MODEL NAME** : See Page 4

**CLIENT** : DGL Group LTD.

**DATE OF ISSUE** : May 21, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	June 1 S	May 21, 2018	Valid	Initial release

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# 1. VERIFICATION OF CONFORMITY

Applicant	DGL Group LTD.					
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837					
Manufacturer	DGL Group LTD.					
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837					
Product Designation	WATER-RESISTANT WIRELESS SPEAKER					
Brand Name	BODY GLOVE					
Test Model	BDY-1311-BLK					
Series Model	BDY-1311-BLU, BDY-1311-PRP, BDY-1311-PNK					
Difference description	All the same except for the appearance color.					
Date of test	May 08, 2018 to May 16, 2018					
Deviation	None None					
Condition of Test Sample	Normal The state of the state o					
Report Template	AGCRT-US-BR/RF					

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.

Tested By		Hanry	Zhang	
Sichal Complaines	Henry Zhang(Zh	nang Zh	nuorui)	May 16, 2018
Reviewed By		cvg	cheng	
® Francisco de Coopal Company	Cool Cheng(Che	ng Men	igguo)	May 21, 2018
Approved By		Fore	y ei	
arce @ ##	Forrest Lei(Le			May 21, 2018



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## 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

W. 100	
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	3.72dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V3.2
Software Version	V3.2
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The USB port only	used for charging and can't be used to transfer data with PC.

# 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
NO.	0 1	2402MHz
The Manufacture	The state of the s	2403MHz
© Signatura of Clobal Control	Table of the state	
CC CC	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
Complaine @ # John of Copya Co.	40	2442 MHz
GO TO C		
	77	2479 MHz
10 mm	78	2480 MHz



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## 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

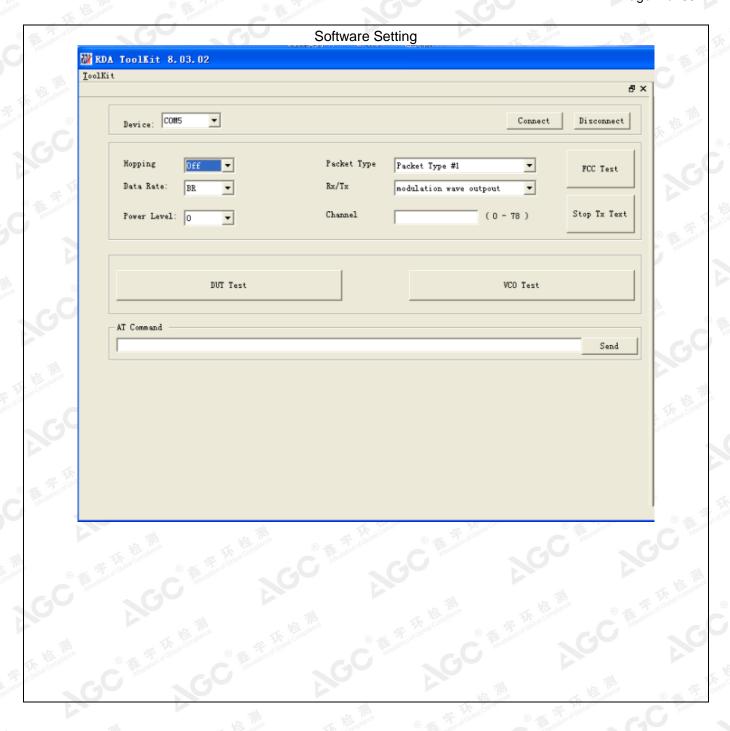
# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
8 # Tool Cool	Low channel GFSK
2 60	Middle channel GFSK
3	High channel GFSK
4 报	Low channel π /4-DQPSK
® 5 nd cloud	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
The state of the s	Middle channel 8DPSK
90	High channel 8DPSK
10	BT Link with charging
11th his rolling	BT Link
(f) 200c (at)	

#### 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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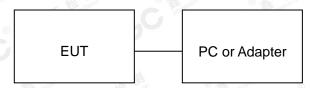


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# 5. SYSTEM TEST CONFIGURATION

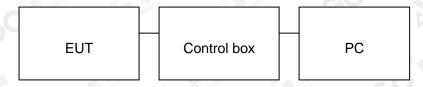
# 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



# 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1 Th	WATER-RESISTANT WIRELESS SPEAKER	BODY GLOVE	BDY-1311-BLK	EUT	
2	Battery	GJ	502530	Accessory	
3	PC	APPLE	A1465	A.E.C	
4	Control box	SERIAL	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	0.5m unshielded	Accessory	
7	USB Cable	N/A	1m unshielded	A.E	
8	IPOD	APPLE	A1421	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	Compliant
§15.215	Bandwidth	Compliant



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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 CONDUCTED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

## **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
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, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	C Ame	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	-C	Jun.20, 2017	Jun.19, 2018



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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	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)	2
0.490 ~ 1.705	30	24000/F(kHz)	吃那
1.705 ~ 30	30	30 (1)	E Sandador of Globa
30 ~ 88	3	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The factor of the second	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

- 1. 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)
- 2. 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)
- 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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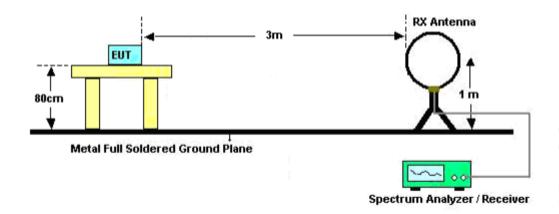
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	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
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

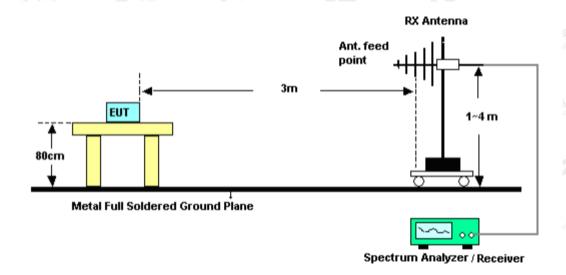


## 9.3. TEST SETUP

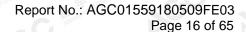
# Radiated Emission Test-Setup Frequency Below 30MHz



## RADIATED EMISSION TEST SETUP 30MHz-1000MHz

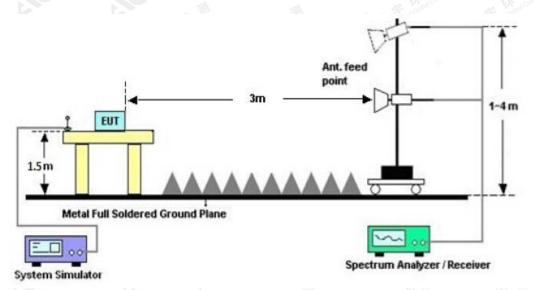


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# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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## 9.4. TEST RESULT

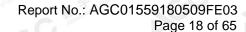
FOR BR/EDR

(Worst modulation: GFSK)

## **RADIATED EMISSION BELOW 30MHz**

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

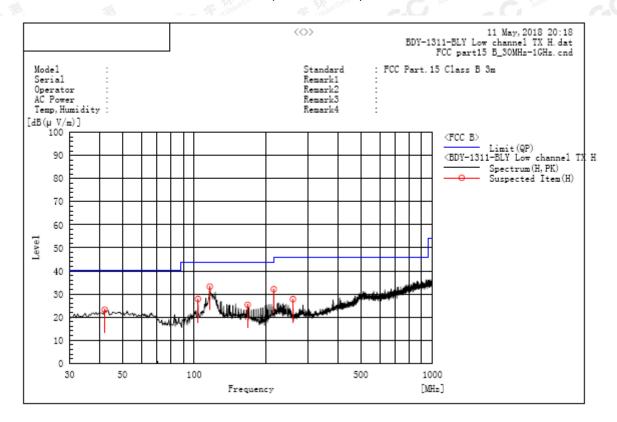
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## **RADIATED EMISSION BELOW 1GHz**

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



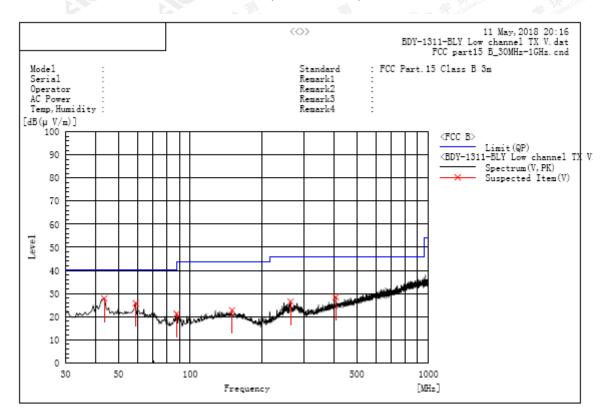
## A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u√/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	42.125	H	5.8	17.4	23.2	40.0	16.8	Pass	100.0	91.0
	103.720	H	13.9	13.9	27.8	43.5	15.7	Pass	150.0	253.1
1	116.330	Н	18.1	15.1	33.2	43.5	10.3	Pass	200.0	72.1
,	167.740	Н	9.2	16.1	25.3	43.5	18.2	Pass	150.0	72.6
	215.755	Н	17.8	14.3	32.1	43.5	11.4	Pass	100.0	91.0
	259.890	Н	11.9	15.9	27.8	46.0	18.2	Pass	200.0	325.1

**RESULT: PASS** 



# 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
43.580	V	10.4	17.4	27.8	40.0	12.2	Pass	100.0	252.6
59.100	V	9.5	16.3	25.8	40.0	14.2	Pass	200.0	267.6
87.715	V	8.9	12.3	21.2	40.0	18.8	Pass	200.0	122.5
149.795	V	6.2	16.6	22.8	43.5	20.7	Pass	150.0	71.1
263.770	V	10.4	16.1	26.5	46.0	19.5	Pass	200.0	267.6
407.815	v	7.3	21.1	28.4	46.0	17.6	Pass	200.0	339.0

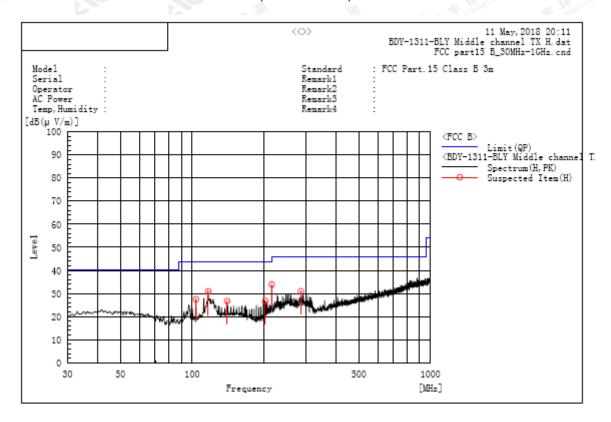
## **RESULT: PASS**

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

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



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



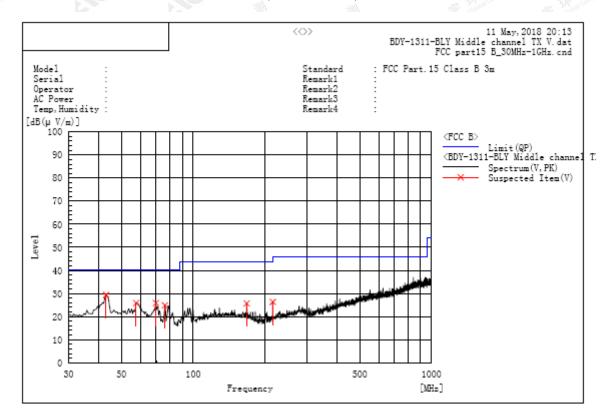
#### A. Suspected List:

	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
	103.720	H	13.6	13.9	27.5	43.5	16.0	Pass	100.0	170.9
	116.815	Н	15.8	15.1	30.9	43.5	12.6	Pass	200.0	329.1
	140.095	Н	10.1	16.6	26.7	43.5	16.8	Pass	100.0	156.9
1	202.660	Н	13.2	13.6	26.8	43.5	16.7	Pass	150.0	94.0
	215.755	Н	19.6	14.3	33.9	43.5	9.6	Pass	100.0	99.1
	286.080	Н	13.3	17.7	31.0	46.0	15.0	Pass	100.0	130.9

**RESULT: PASS** 



# 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	
	43.095	V	12.0	17.4	29.4	40.0	10.6	Pass	100.0	265.5	
	57.645	V	9.4	16.5	25.9	40.0	14.1	Pass	150.0	183.7	
	69.770	V	11.4	14.5	25.9	40.0	14.1	Pass	200.0	224.1	
1	76.075	V	12.2	12.7	24.9	40.0	15.1	Pass	100.0	178.3	
	167.740	V	9.6	16.1	25.7	43.5	17.8	Pass	150.0	142.3	
	215.755	v	12.0	14.3	26.3	43.5	17.2	Pass	100.0	281.3	

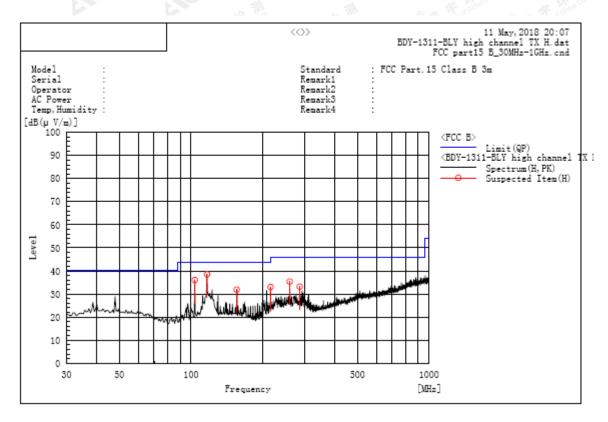
## **RESULT: PASS**

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

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



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



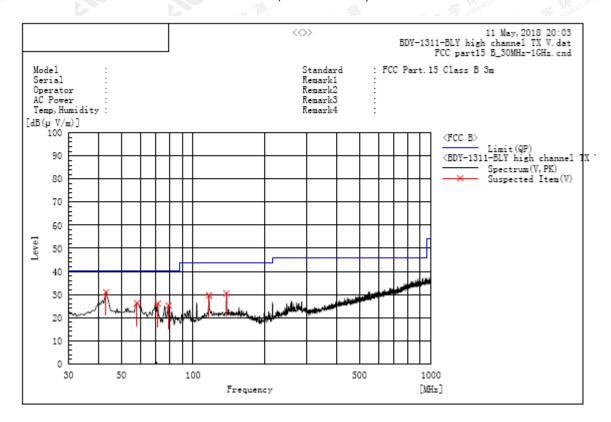
## A. Suspected List:

Frequen MHz		Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
103.72	0	H	22.2	13.9	36.1	43.5	7.4	Pass	200.0	142.4
116.81	5	H	23.4	15.1	38.5	43.5	5.0	Pass	150.0	154.1
155.61	5	Н	15.3	16.6	31.9	43.5	11.6	Pass	150.0	127.6
215.75	5	Н	18.7	14.3	33.0	43.5	10.5	Pass	100.0	100.7
259.89	0	Н	19.5	15.9	35.4	46.0	10.6	Pass	100.0	136.9
286.08	0	Н	15.5	17.7	33.2	46.0	12.8	Pass	100.0	205.1

**RESULT: PASS** 



## 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(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	43.095	V	13.6	17.4	31.0	40.0	9.0	Pass	150.0	81.5
	58.130	V	9.8	16.4	26.2	40.0	13.8	Pass	150.0	44.9
	71.225	v	12.0	14.1	26.1	40.0	13.9	Pass	100.0	315.5
K	78.985	v	13.0	12.3	25.3	40.0	14.7	Pass	150.0	26.4
	116.815	V	14.5	15.1	29.6	43.5	13.9	Pass	200.0	235.5
	138.155	V	13.9	16.6	30.5	43.5	13.0	Pass	100.0	270.0

## **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.



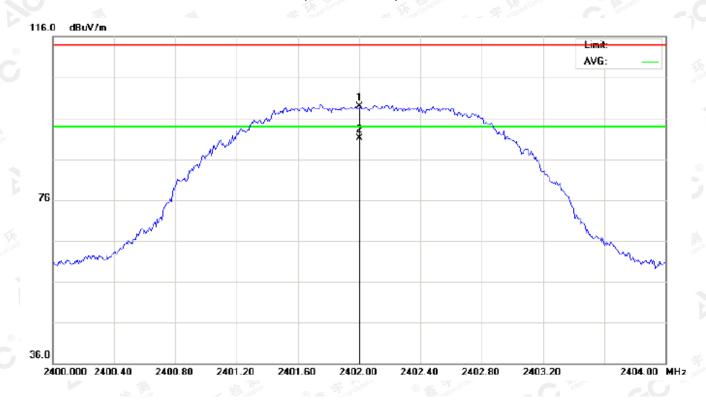
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# RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

#### For Fundamental

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



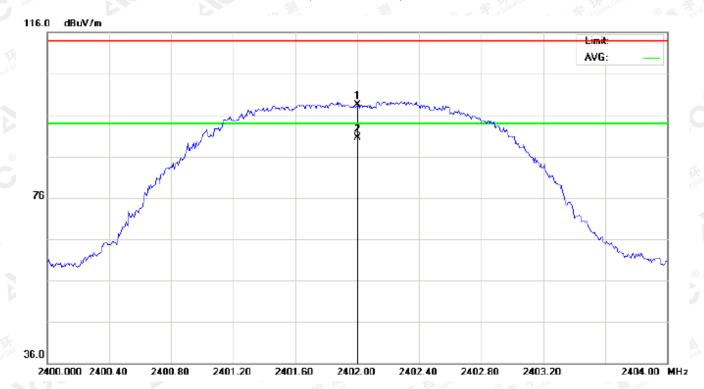
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	88.60	10.32	98.92	114.00	-15.08	peak			
2	*	2402.000	80.69	10.32	91.01	94.00	-2.99	AVG	100	265	

RESULT: PASS



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



1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2402.000	88.15	10.32	98.47	114.00	-15.53	peak			
	2	*	2402.000	80.11	10.32	90.43	94.00	-3.57	AVG	100	286	

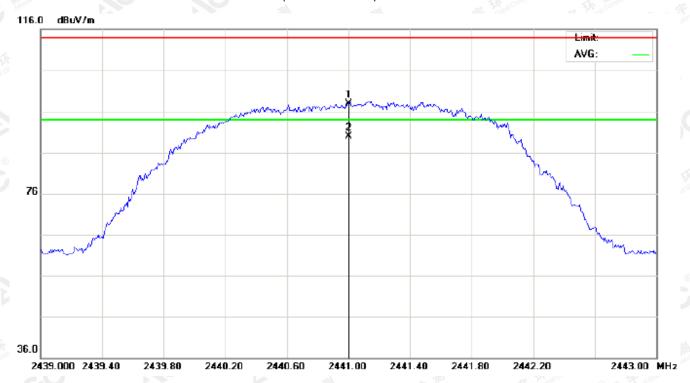
RESULT: PASS

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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
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	87.57	10.36	97.93	114.00	-16.07	peak			
2	*	2441.000	79.58	10.36	89.94	94.00	-4.06	AVG	100	214	

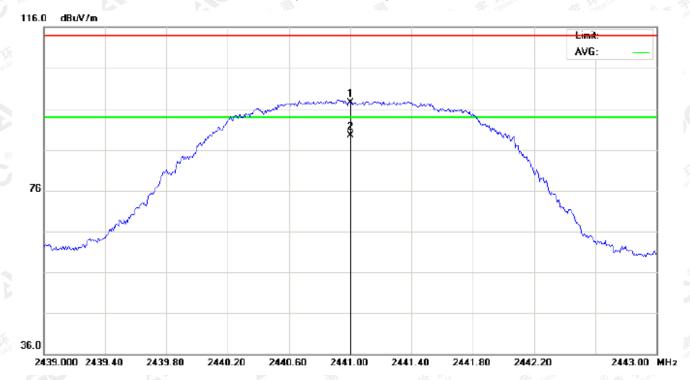
**RESULT: PASS** 

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



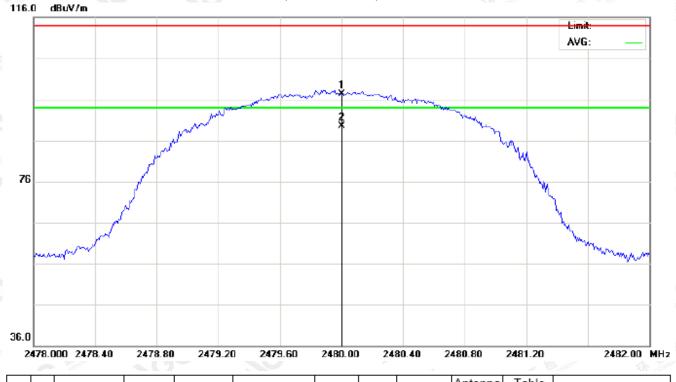
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	87.16	10.36	97.52	114.00	-16.48	peak			
2	*	2441.000	79.13	10.36	89.49	94.00	-4.51	AVG	100	121	

**RESULT: PASS** 



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



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	86.99	10.41	97.40	114.00	-16.60	peak			
2	*	2480.000	79.00	10.41	89.41	94.00	-4.59	AVG	100	358	

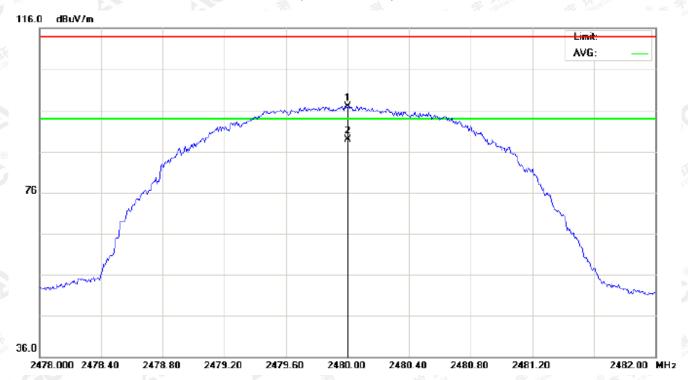
**RESULT: PASS** 

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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	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	86.56	10.41	96.97	114.00	-17.03	peak			
2	*	2480.000	78.49	10.41	88.90	94.00	-5.10	AVG	100		

## **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	88.60	10.32	98.92	114	-15.08	Horizontal	
2402	88.15	10.32	98.47	114	-15.53	Vertical	
2441	87.57	10.36	97.93	114	-16.07	Horizontal	
2441	87.16	10.36	97.52	114	-16.48	Vertical	
2480	86.99	10.41	97.40	114	-16.60	Horizontal	
2480	86.56	10.41	96.97	114	-17.03	Vertical	

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	80.69	10.32	91.01	94	-2.99	Horizontal	
2402	80.11	10.32	90.43	94	-3.57	Vertical	
2441	79.58	10.36	89.94	94	-4.06	Horizontal	
2441	79.13	10.36	89.49	94	-4.51	Vertical	
2480	79.00	10.41	89.41	94	-4.59	Horizontal	
2480	78.49	10.41	88.90	94	-5.10	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	88.17	10.32	98.49	114	-15.51	Horizontal
2402	87.66	10.32	97.98	114	-16.02	Vertical
2441	87.16	10.36	97.52	114	-16.48	Horizontal
2441	86.66	10.36	97.02	114	-16.98	Vertical
2480	86.51	10.41	96.92	114	-17.08	Horizontal
2480	86.11	10.41	96.52	114	-17.48	Vertical

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.29	10.32	90.61	94	-3.39	Horizontal
2402	79.65	10.32	89.97	94	-4.03	Vertical
2441	79.16	10.36	89.52	94	-4.48	Horizontal
2441	78.73	10.36	89.09	94	-4.91	Vertical
2480	78.58	10.41	88.99	94	-5.01	Horizontal
2480	78.00	10.41	88.41	94	-5.59	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	87.68	10.32	98.00	114	-16.00	Horizontal
2402	87.23	10.32	97.55	114	-16.45	Vertical
2441	86.75	10.36	97.11	114	-16.89	Horizontal
2441	86.17	10.36	96.53	114	-17.47	Vertical
2480	86.10	10.41	96.51	114	-17.49	Horizontal
2480	85.71	10.41	96.12	114	-17.88	Vertical

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.81	10.32	90.13	94	-3.87	Horizontal
2402	79.17	10.32	89.49	94	-4.51	Vertical
2441	78.76	10.36	89.12	94	-4.88	Horizontal
2441	78.31	10.36	88.67	94	-5.33	Vertical
2480	78.10	10.41	88.51	94	-5.49	Horizontal
2480	77.54	10.41	87.95	94	-6.05	Vertical



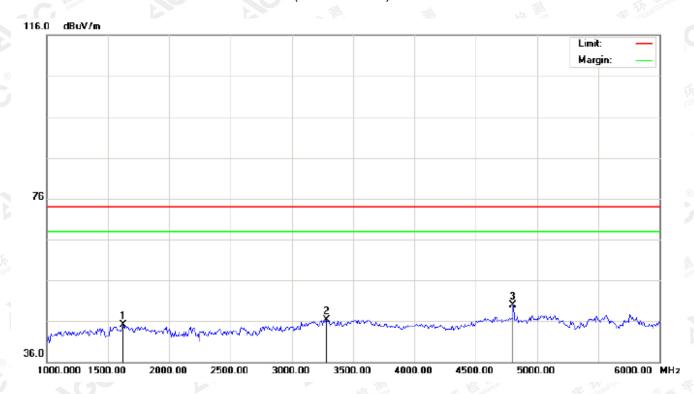
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## FOR BR/EDR

(Worst modulation: GFSK)

#### **For Harmonics**

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



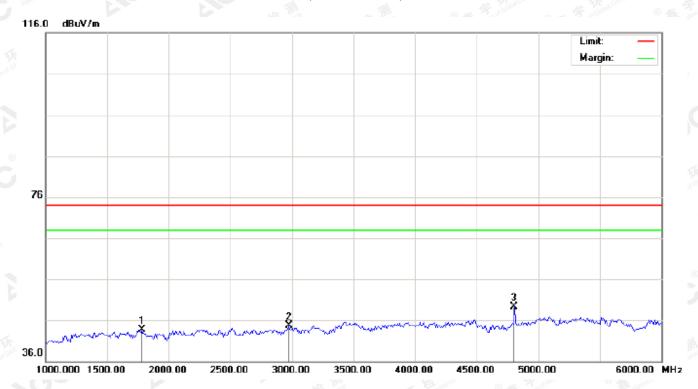
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1625.000	39.08	5.94	45.02	74.00	-28.98	peak			
2		3283.333	34.30	11.91	46.21	74.00	-27.79	peak			
3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak			

RESILIT. PASS



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



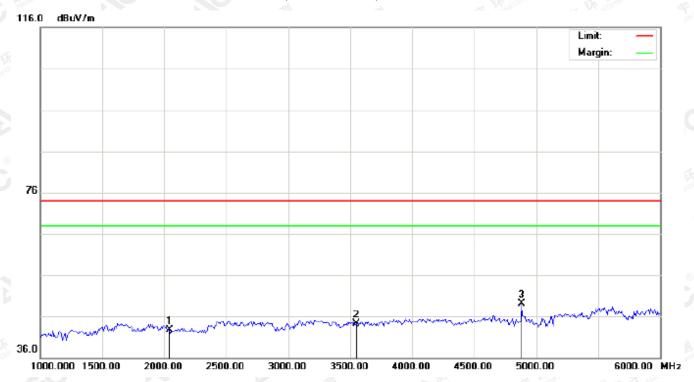
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1783.333	36.07	7.60	43.67	74.00	-30.33	peak			
2		2975.000	33.05	11.58	44.63	74.00	-29.37	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

**RESULT: PASS** 



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2041.667	32.78	9.93	42.71	74.00	-31.29	peak			
2		3550.000	31.97	12.42	44.39	74.00	-29.61	peak			
3	*	4882.000	41.16	7.89	49.05	74.00	-24.95	peak			

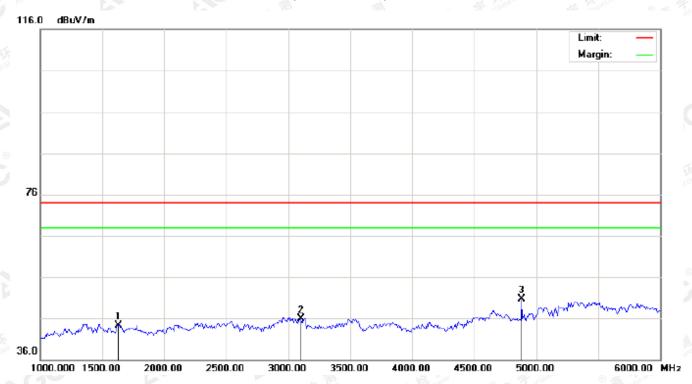
**RESULT: PASS** 

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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	dBu\//m	dBu∀/m	dB		cm	degree	
1		1633.333	38.28	6.02	44.30	74.00	-29.70	peak			
2		3100.000	34.09	11.73	45.82	74.00	-28.18	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

**RESULT: PASS** 

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1841.667	36.07	8.21	44.28	74.00	-29.72	peak			
2		3516.667	32.72	12.21	44.93	74.00	-29.07	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

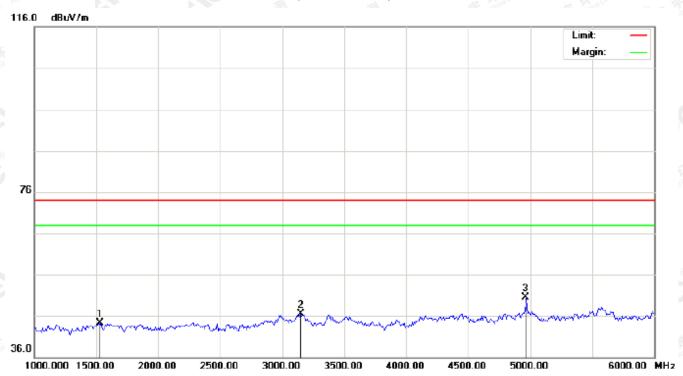
DECILIT: DACC

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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	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1533.333	39.28	4.97	44.25	74.00	-29.75	peak			
2		3150.000	34.64	11.78	46.42	74.00	-27.58	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	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

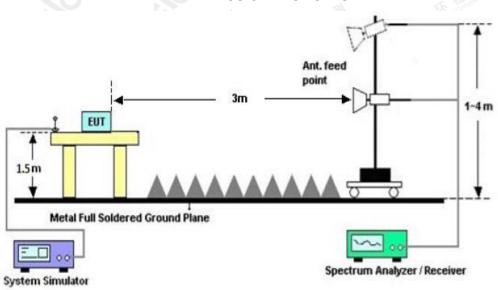
### 10.1. MEASUREMENT PROCEDURE

- 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 frequenc	y(MHz)		Stop frequency(MHz)			
	2200	Kingliance	The Compilers	© A station	2405	100°	
8 F.	2478	Global Co	attestation of Glob	-,0 "	2500		

#### **10.2 TEST SETUP**

# RADIATED EMISSION TEST SETUP



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# **10.3 RADIATED TEST RESULT**

# FOR BR/EDR

(Worst modulation: GFSK)

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



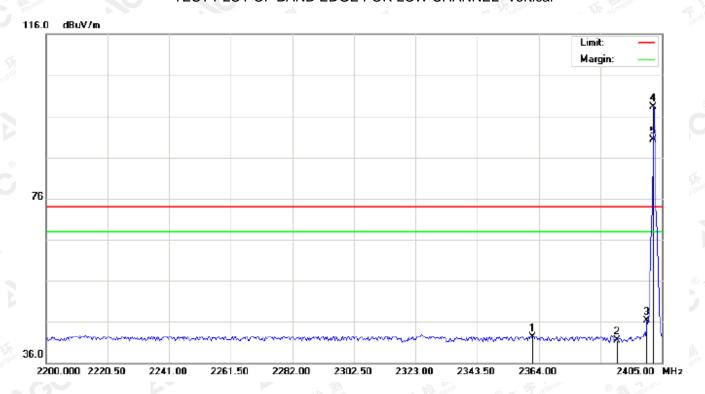
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2328.808	32.50	10.24	42.74	74.00	-31.26	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	88.47	10.32	98.79	74.00	24.79	peak			
5	Х	2402.000	80.59	10.32	90.91	74.00	16.91	AVG	100	251	

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# TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



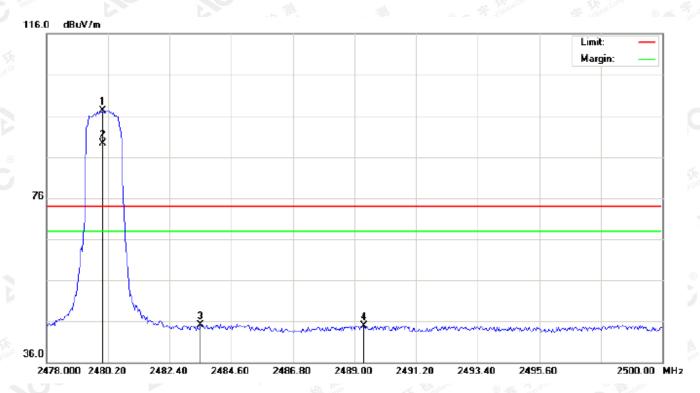
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2361.950	32.09	10.28	42.37	74.00	-31.63	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	88.00	10.32	98.32	74.00	24.32	peak			
5	Х	2402.000	79.99	10.32	90.31	74.00	16.31	AVG	100	157	

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



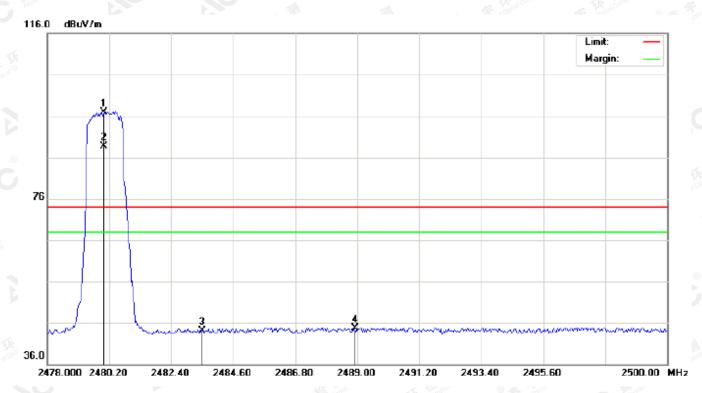
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	86.87	10.41	97.28	74.00	23.28	peak			
2	Х	2480.000	78.88	10.41	89.29	74.00	15.29	AVG	100	265	
3		2483.500	34.69	10.41	45.10	74.00	-28.90	peak			
4		2489.330	34.46	10.42	44.88	74.00	-29.12	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	dBu∀/m	dBu∀/m	dB		cm	degree		
1	*	2480.000	86.43	10.41	96.84	74.00	22.84	peak			
2	Х	2480.000	78.35	10.41	88.76	74.00	14.76	AVG	100	146	
3		2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
4		2488.927	34.34	10.42	44.76	74.00	-29.24	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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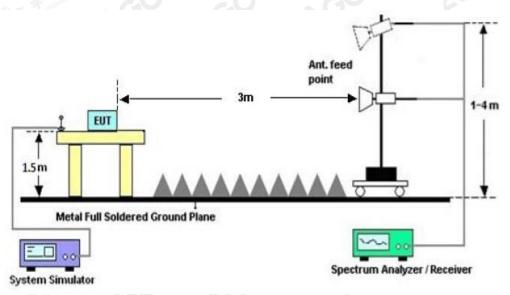
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# 11. 20DB BANDWIDTH

### 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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 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

BLUETO	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz)	-20dB BW(MHz)	Nesuit					
Stoke Company (State Little Company)	Low Channel	0.948	1.056	PASS					
N/A	Middle Channel	0.953	1.046	PASS					
	High Channel	0.933	1.070	PASS					

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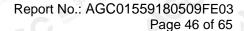
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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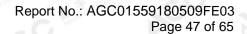




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



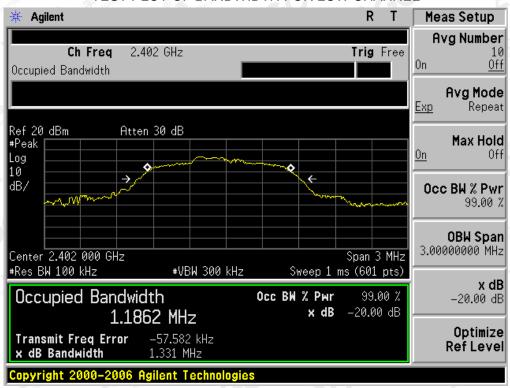
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits		Decult									
		Result									
下发现。 不是现象	Low Channel	1.186	1.331	PASS							
N/A	Middle Channel	1.195	1.318	PASS							
	High Channel	1.189	1.323	PASS							

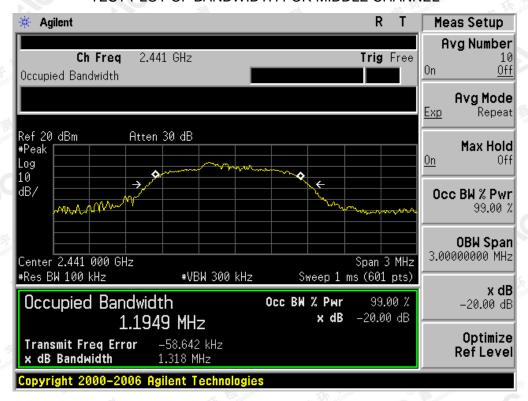
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



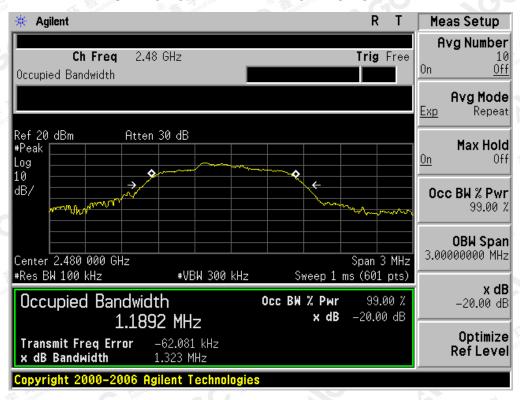
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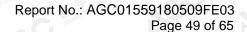
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



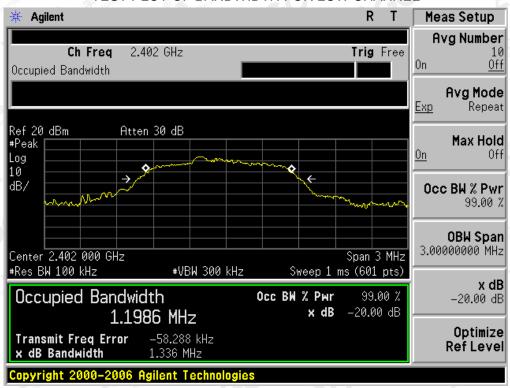
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT											
		Measurement Result									
Applicable Limits		Dooult									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
TA TO THE	Low Channel	1.199	1.336	PASS							
N/A	Middle Channel	1.194	1.316	PASS							
COC	High Channel	1.192	1.325	PASS							

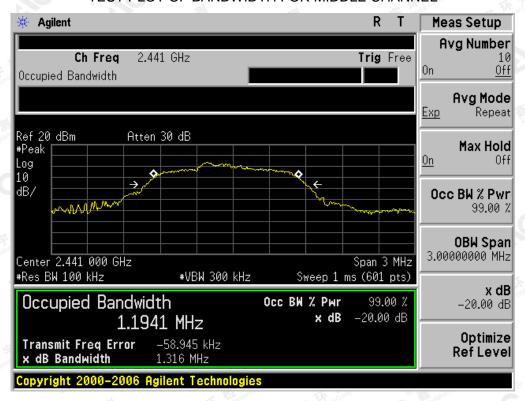
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



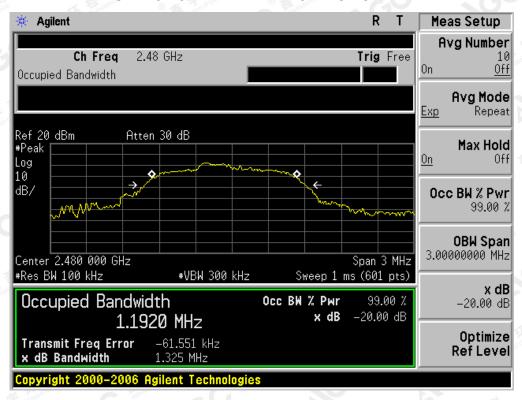
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

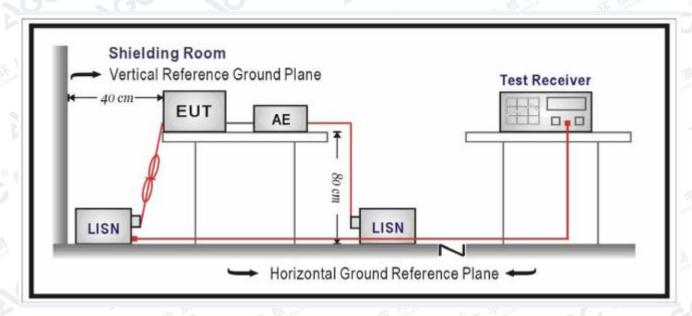
# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 Age 12	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

- 1. 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

- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. 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.

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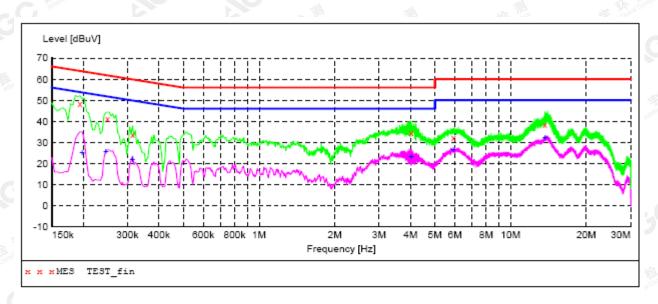
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# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

### FOR BR/EDR

### Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT: "TEST fin"

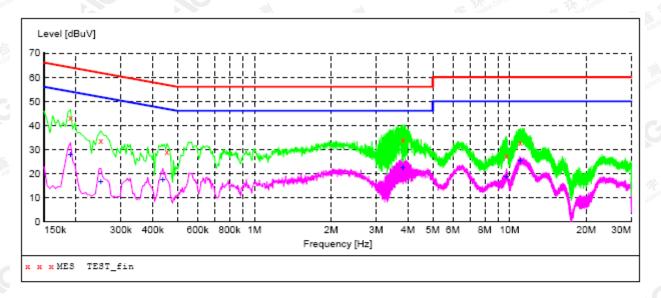
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194000 0.250000 0.314000	48.30 41.10 33.80	10.1 10.1 10.1	64 62 60	15.6 20.7 26.1	QP QP	L1 L1 L1	FLO FLO
4.026000 5.930000 13.682000	34.60 32.10 38.30	10.1 10.3 9.5	56 60 60	21.4 27.9 21.7	QP QP QP	L1 L1 L1	FLO FLO FLO

# MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000 0.246000 0.314000 4.026000 5.926000 13.682000	25.30 25.60 21.60 23.20 26.30 32.10	10.1 10.1 10.1 10.1 10.3 9.5	54 52 50 46 50		AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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# Line Conducted Emission Test Line 2-N



## MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.190000	43.10	10.1	64	20.9	QP	N	FLO
0.250000	33.60	10.1	62	28.2	QP	N	FLO
0.454000	28.90	10.1	57	27.9	QP	N	FLO
3.826000	34.20	10.1	56	21.8	QP	N	FLO
9.726000	27.50	9.8	60	32.5	QP	N	FLO
11.010000	32.80	9.6	60	27.2	QP	N	FLO

# MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.190000 0.250000 0.438000 3.826000 9.726000 11.010000	27.60 16.60 17.30 22.50 18.50 25.10	10.1 10.1 10.1 10.1 9.8 9.6	54 52 47 46 50 50	26.4 35.2 29.8 23.5 31.5 24.9	AV AV AV AV AV	N N N N N	FLO FLO FLO FLO FLO

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



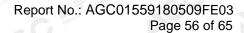
FCC RADIATED EMISSION TEST SETUP



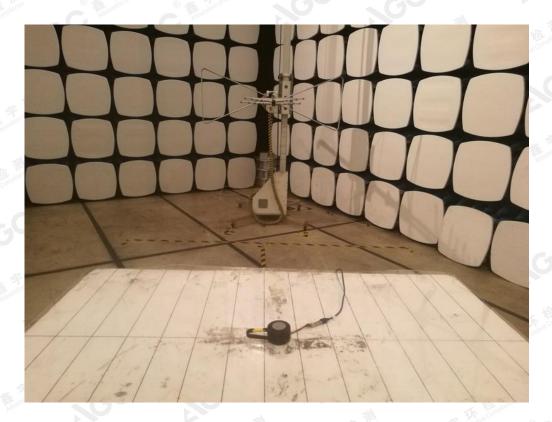
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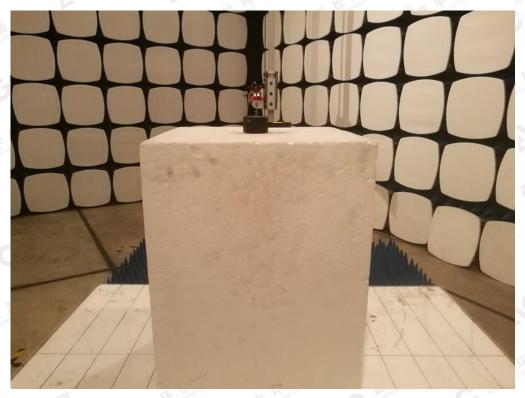
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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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## **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT



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# **BACK VIEW OF EUT**



**LEFT VIEW OF EUT** 



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# RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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# **OPEN VIEW OF EUT**



VIEW OF BATTERY



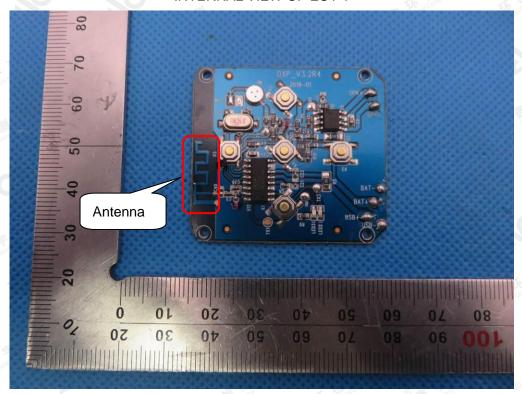
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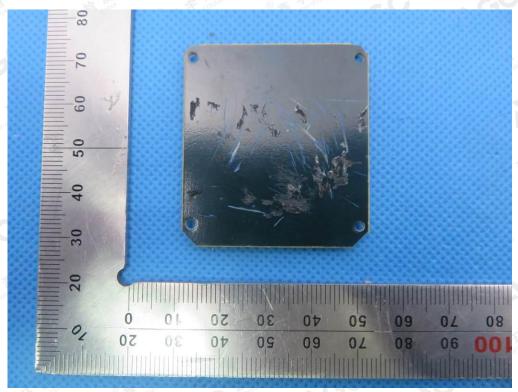
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# **INTERNAL VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-2** 



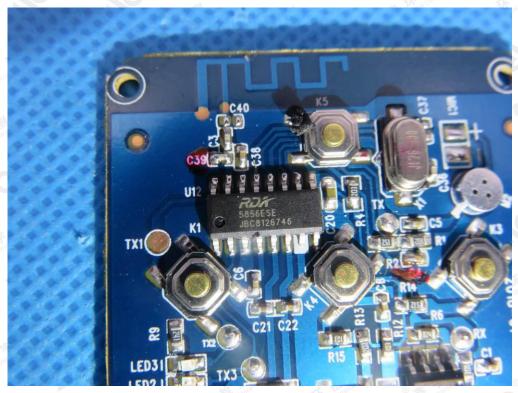
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# **INTERNAL VIEW OF EUT-3**

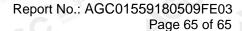


VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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# **All Model Samples**





----END OF REPORT----

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