

# **FCC Test Report**

Report No.: AGC01559180545FE03

**FCC ID** : 2AANZ6438

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: IPX7 WATERPROOF WIRELESS SPEAKER

**BRAND NAME** : BODY GLOVE

MODEL NAME BDY-6438, BDY-6438-BLK, BDY-6438-BLU,

BDY-6438-PRP, BDY-6438-PNK

**CLIENT** : DGL Group LTD.

**DATE OF ISSUE** : Jun. 13, 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

AGC B

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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	plience / © Mile	Jun. 13, 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	IPX7 WATERPROOF WIRELESS SPEAKER
Brand Name	BODY GLOVE
Test Model	BDY-6438
Series Model	BDY-6438-BLK, BDY-6438-BLU, BDY-6438-PRP, BDY-6438-PNK
Difference Description	All the same except for the appearance color
Date of test	Jun. 06, 2018 to Jun. 13, 2018
Deviation	None The second
Condition of Test Sample	Normal
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	Jorden W	and
CC	Jonhen Wang(Wang Yonghu	an) Jun. 13, 2018
Reviewed By	cual chan	JAN CO
	Cool Cheng(Cheng Menggu	o) Jun. 13, 2018
Approved By	Fowers ce	
CC 3	Forrest Lei(Lei Yonggang)  Authorized Officer	Jun. 13, 2018

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.73dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • M.
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
	used for charging and can't be used to transfer data with PC.

The test model has four kinds of color samples, all recorded in the test report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

**BR/EDR Channel List** 

Frequency Band	Channel Number	Frequency
视测	0 7 3 3 3 3 3	2402MHz
® # John of Charlest Continu	GC 1 \G	2403MHz
C CC		The state of the s
1	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
CC Manual C	40	2442 MHz
		T. T
	77	2479 MHz
F of Choose Company	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

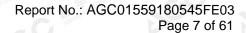
#### 4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION
	1 In Compliance	Low channel GFSK
® Atte	2	Middle channel GFSK
CO	3	High channel GFSK
	4	Low channel π /4-DQPSK
杨柳	5 Th 1000	Middle channel π /4-DQPSK
® §	6 mod Good	High channel π /4-DQPSK
CO	7	BT Link with charging
45	8	BT Link
	IIIS.	CO. 720 190-

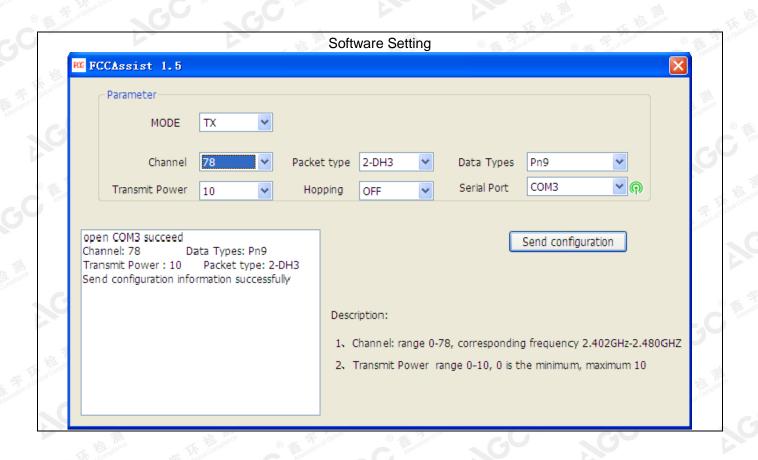
#### Note:

- 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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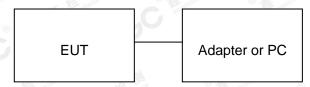


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# 5. SYSTEM TEST CONFIGURATION

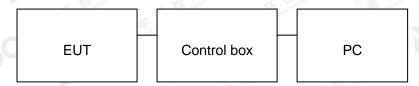
#### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and 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	IPX7 WATERPROOF WIRELESS SPEAKER	BODY GLOVE	BDY-6438	EUT	
2	Battery	HA	18650	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	USB Cable	N/A	0.5m unshielded	Accessory	
8	AUX IN Cable	N/A	0.3m unshielded	Accessory	
9	Mobile phone	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
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The terminal of the second	Jun.20, 2017	Jun.19, 2018

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#### 9. RADIATED EMISSION

#### 9.1. TEST 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 Strengths 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)	E				
1.705 ~ 30	30	30	Color Color				
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 M. GC	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.
- 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.

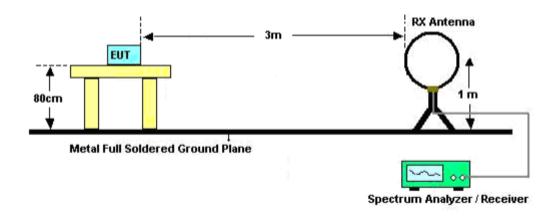
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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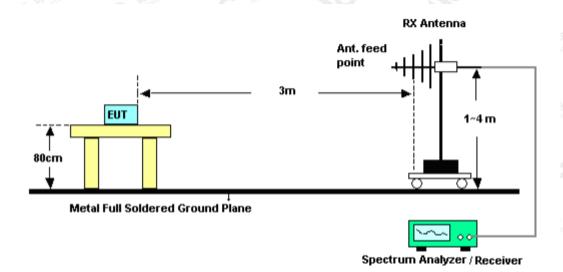


#### 9.3. TEST SETUP

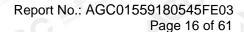
#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



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

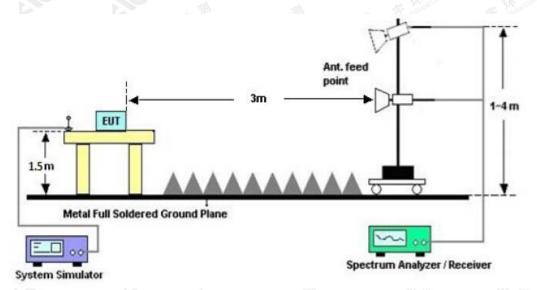


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# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

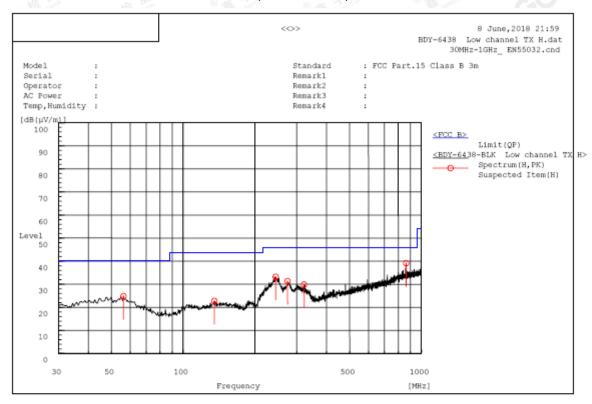
(Worst modulation: GFSK)

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

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

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

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



#### A. Suspected List:

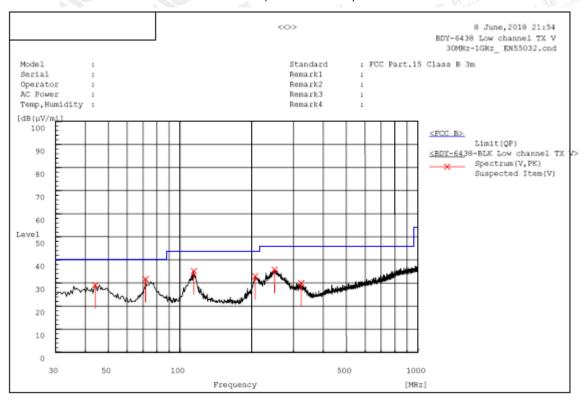
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
56.190	H	8.2	16.6	24.8	40.0	15.2	Pass	100.0	179.7
135.245	Н	6.3	16.5	22.8	43.5	20.7	Pass	100.0	288.4
244.855	Н	17.0	16.2	33.2	46.0	12.8	Pass	200.0	10.6
274.440	Н	14.0	17.4	31.4	46.0	14.6	Pass	200.0	156.5
321.970	Н	12.0	17.9	29.9	46.0	16.1	Pass	150.0	44.0
864.200	Н	9.3	29.8	39.1	46.0	6.9	Pass	150.0	189.9

**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
	44.065	v	11.7	17.3	29.0	40.0	11.0	Pass	100.0	119.8
	71.710	V	17.7	14.0	31.7	40.0	8.3	Pass	100.0	350.2
	114.390	v	20.2	14.9	35.1	43.5	8.4	Pass	100.0	232.8
	207.025	v	19.2	13.7	32.9	43.5	10.6	Pass	100.0	158.5
20	249.705	v	19.6	16.1	35.7	46.0	10.3	Pass	100.0	18.6
	323.425	V	12.1	17.9	30.0	46.0	16.0	Pass	200.0	46.3

#### **RESULT: PASS**

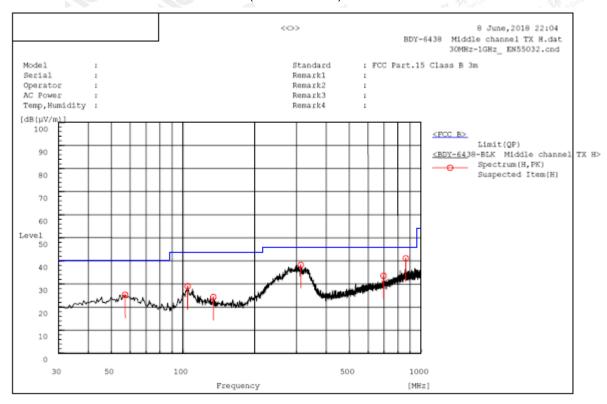
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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



#### A. Suspected List:

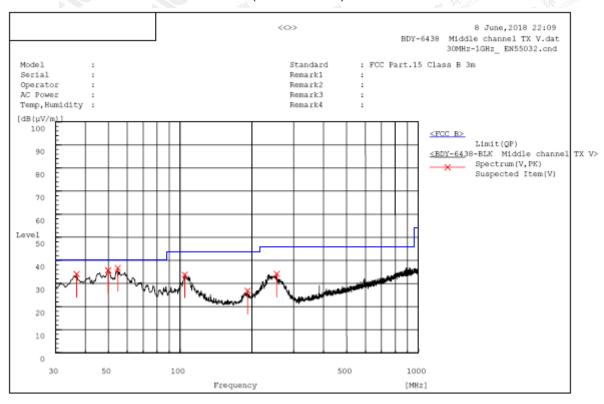
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
57.160	Н	8.8	16.5	25.3	40.0	14.7	Pass	200.0	346.2
104.690	Н	15.0	14.0	29.0	43.5	14.5	Pass	200.0	273.7
134.275	Н	7.9	16.5	24.4	43.5	19.1	Pass	200.0	307.6
312.755	Н	20.7	17.6	38.3	46.0	7.7	Pass	200.0	131.6
696.875	Н	7.2	26.3	33.5	46.0	12.5	Pass	200.0	275.1
864.200	Н	11.3	29.8	41.1	46.0	4.9	Pass	200.0	202.1

**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	Marqin dB	Pass/Fail	Height cm	Angle deg
36.790	V	17.2	16.8	34.0	40.0	6.0	Pass	200.0	161.8
49.885	V	18.6	17.1	35.7	40.0	4.3	Pass	200.0	151.5
54.735	V	20.0	16.7	36.7	40.0	3.3	Pass	200.0	41.2
104.690	V	19.8	14.0	33.8	43.5	9.7	Pass	200.0	228.8
191.990	V	13.2	13.7	26.9	43.5	16.6	Pass	200.0	7.5
254.555	V	18.2	16.0	34.2	46.0	11.8	Pass	150.0	287.8

#### **RESULT: PASS**

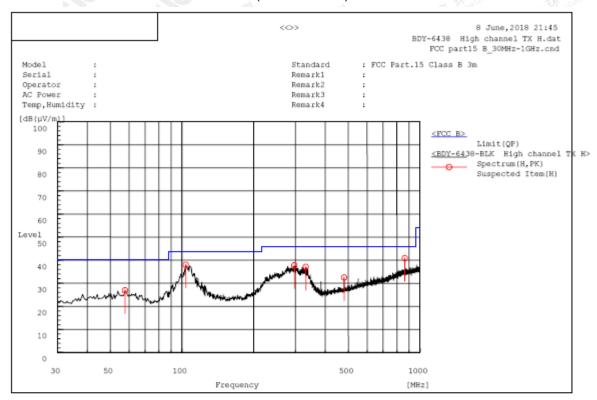
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	57.645	Н	10.4	16.5	26.9	40.0	13.1	Pass	150.0	262.0
ſ	103.720	Н	24.1	13.9	38.0	43.5	5.5	Pass	150.0	19.4
	296.750	Н	20.4	17.4	37.8	46.0	8.2	Pass	100.0	163.4
	331.670	Н	18.9	18.2	37.1	46.0	8.9	Pass	100.0	168.7
	480.080	Н	9.9	22.6	32.5	46.0	13.5	Pass	100.0	108.0
	864.200	Н	11.0	29.8	40.8	46.0	5.2	Pass	150.0	350.2

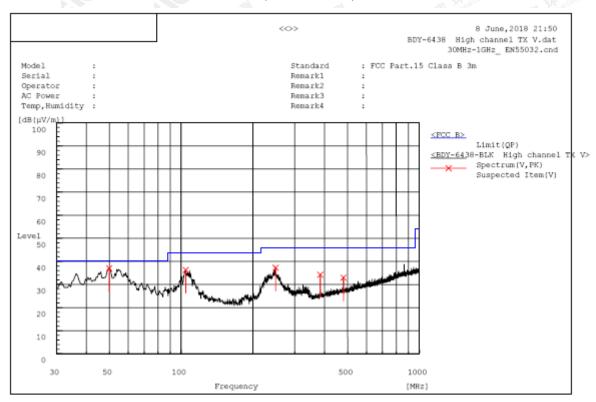
**RESULT: PASS** 

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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(u√/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
49.885	V	19.9	17.1	37.0	40.0	3.0	Pass	100.0	62.5
104.690	V	22.3	14.0	36.3	43.5	7.2	Pass	100.0	245.7
249.220	V	21.1	16.1	37.2	46.0	8.8	Pass	100.0	11.7
384.050	V	14.0	20.2	34.2	46.0	11.8	Pass	150.0	154.8
480.080	V	10.3	22.6	32.9	46.0	13.1	Pass	100.0	11.7

#### **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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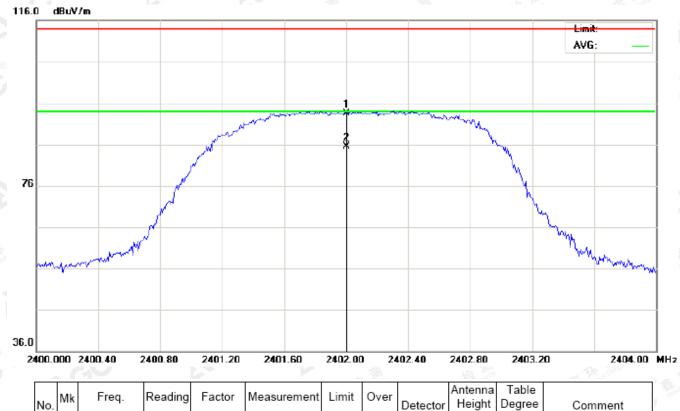
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#### **RADIATED EMISSION ABOVE 1GHZ**

(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	83.15	10.32	93.47	114.00	-20.53	peak			
2	*	2402.000	75.18	10.32	85.50	94.00	-8.50	AVG	100	71	
								2.2.2. 2.00		- 13	1711 000 - 1 -

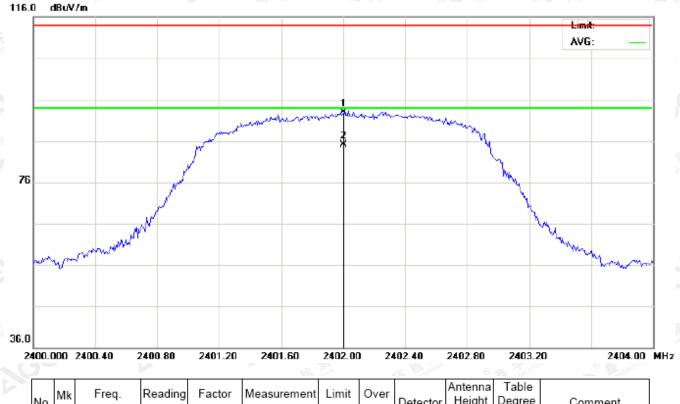
RESULT: PASS

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
lati	1		2402.000	82.65	10.32	92.97	114.00	-21.03	peak			
	2	*	2402.000	74.69	10.32	85.01	94.00	-8.99	AVG	100	204	

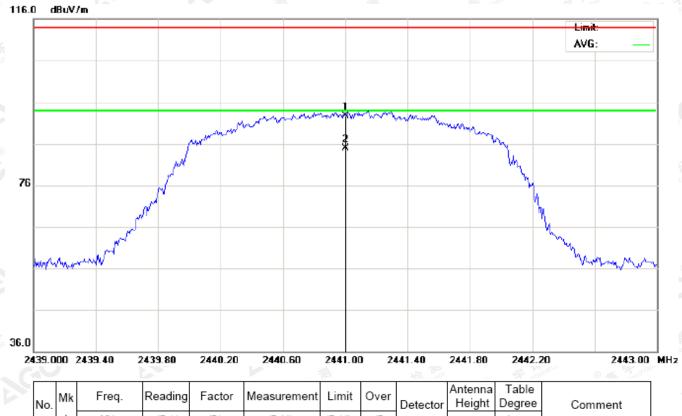
**RESULT: PASS** 

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



									-882487		O 1022	
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1		2441.000	82.38	10.36	92.74	114.00	-21.26	peak			
- 2	2	*	2441.000	74.47	10.36	84.83	94.00	-9.17	AVG	100	82	

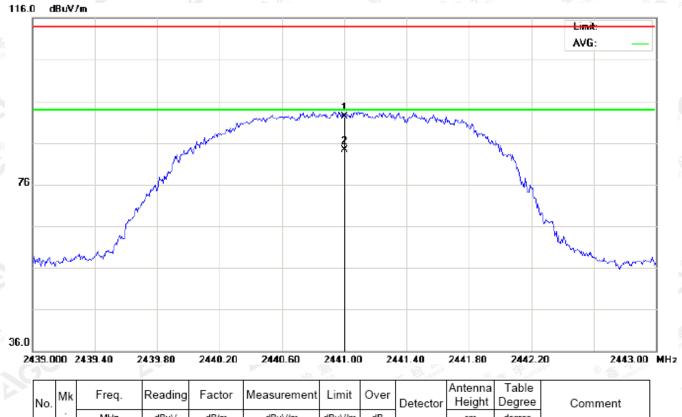
**RESULT: PASS** 

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



MHz dBu∀ dB/m dBuV/m dBuV/m dΒ degree -21.73 2441.000 81.91 10.36 92.27 114.00 peak 2441.000 73.91 10.36 94.00 AVG 100 199

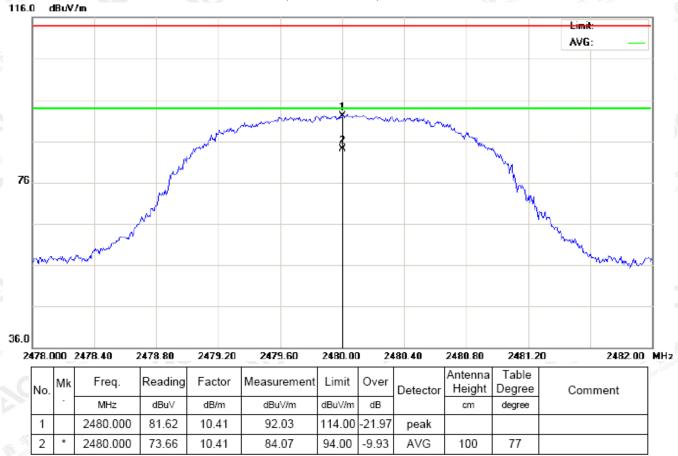
**RESULT: PASS** 

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



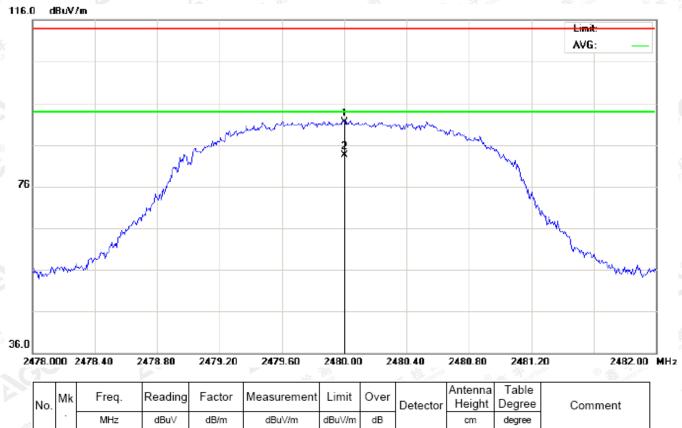
**RESULT: PASS** 

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



# MHz dBuV dB/m dBuV/m dB beteto Height begree 1 2480.000 81.16 10.41 91.57 114.00 -22.43 peak 2 \* 2480.000 73.13 10.41 83.54 94.00 -10.46 AVG 100 213

**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 Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	83.15	10.32	93.47	114	-20.53	Horizontal	
2402	82.65	10.32	92.97	114	-21.03	Vertical	
2441	82.38	10.36	92.74	114	-21.26	Horizontal	
2441	81.91	10.36	92.27	114	-21.73	Vertical	
2480	81.62	10.41	92.03	114	-21.97	Horizontal	
2480	81.16	10.41	91.57	114	-22.43	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	75.18	10.32	85.50	94	-8.50	Horizontal	
2402	74.69	10.32	85.01	94	-8.99	Vertical	
2441	74.47	10.36	84.83	94	-9.17	Horizontal	
2441	73.91	10.36	84.27	94	-9.73	Vertical	
2480	73.66	10.41	84.07	94	-9.93	Horizontal	
2480	73.13	10.41	83.54	94	-10.46	Vertical	

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#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	82.83	10.32	93.15	114	-20.85	Horizontal	
2402	82.28	10.32	92.60	114	-21.40	Vertical	
2441	81.92	10.36	92.28	114	-21.72	Horizontal	
2441	81.44	10.36	91.80	114	-22.20	Vertical	
2480	81.19	10.41	91.60	114	-22.40	Horizontal	
2480	80.67	10.41	91.08	114	-22.92	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402 74.81		10.32	85.13	94	-8.87	Horizontal	
2402	74.23	10.32	84.55	94	-9.45	Vertical	
2441	74.06	10.36	84.42	94	-9.58	Horizontal	
2441	73.58	10.36	83.94	94	-10.06	Vertical	
2480	73.25	10.41	83.66	94	-10.34	Horizontal	
2480	72.67	10.41	83.08	94	-10.92	Vertical	

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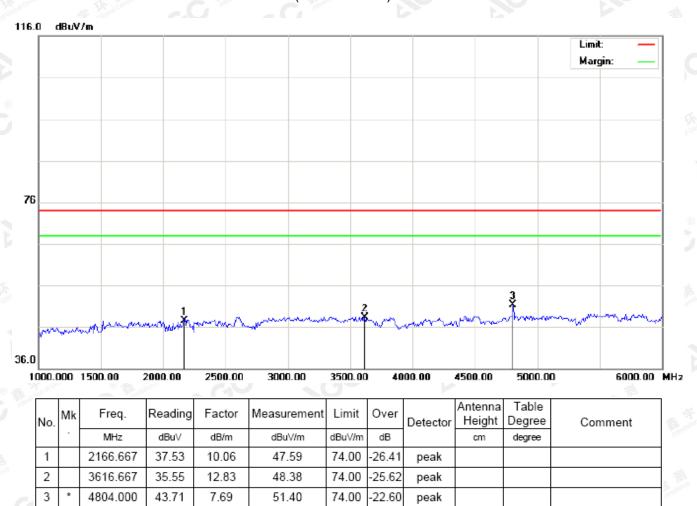


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# (Worst modulation: GFSK)

#### **For Harmonics**

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



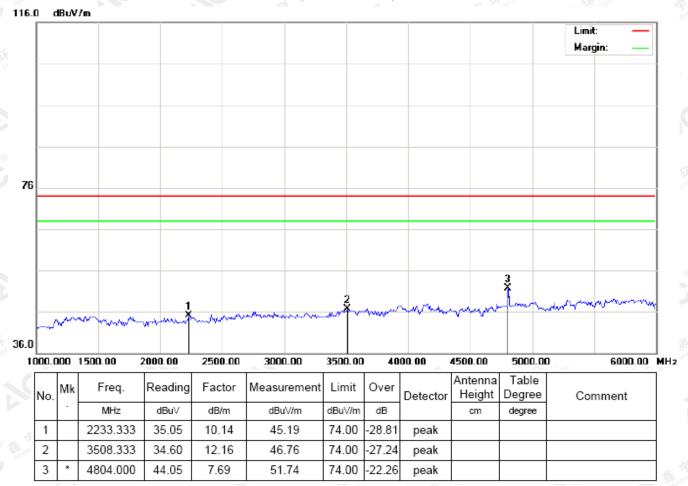
**RESULT: PASS** 

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



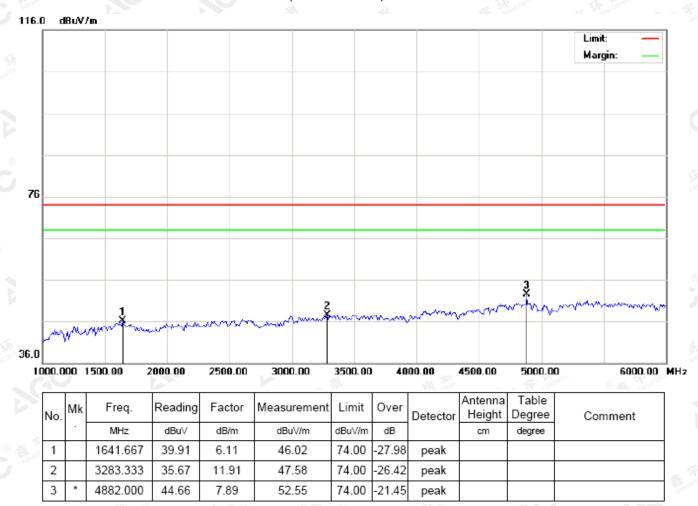
**RESULT: PASS** 

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



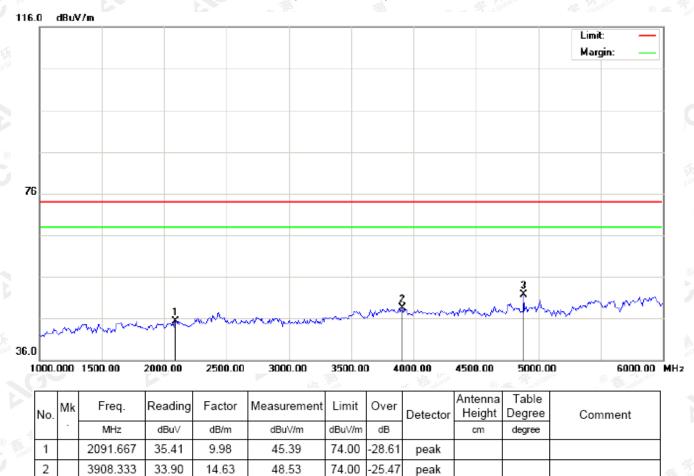
**RESULT: PASS** 

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



74.00

22.2

peak

**RESULT: PASS** 

4882.000

43.89

7.89

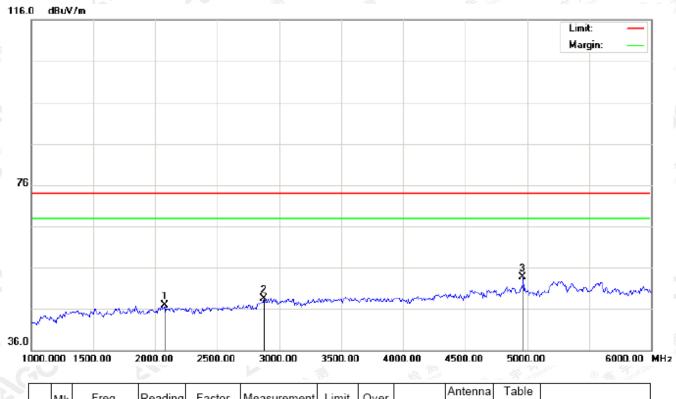
51.78

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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
8	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2075.000	36.96	9.96	46.92	74.00	-27.08	peak			
2		2875.000	37.14	11.34	48.48	74.00	-25.52	peak			
3	*	4960.000	45.60	8.09	53.69	74.00	-20.31	peak			

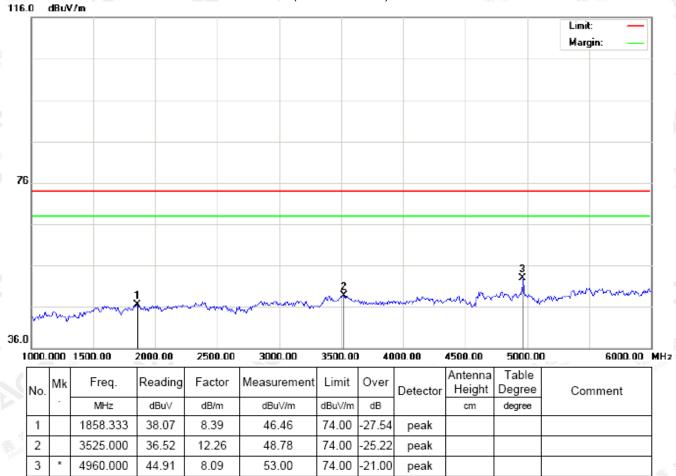
RESULT. PASS

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



#### **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

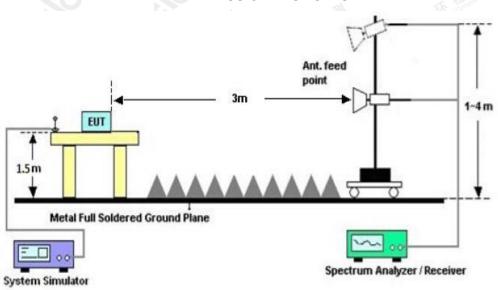
### 10.1. MEASUREMENT PROCEDURE

- 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(MHz)	Stop frequency(MHz)			
2200	2405			
2478	2500			

#### 10.2 TEST SETUP

## RADIATED EMISSION TEST SETUP



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# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



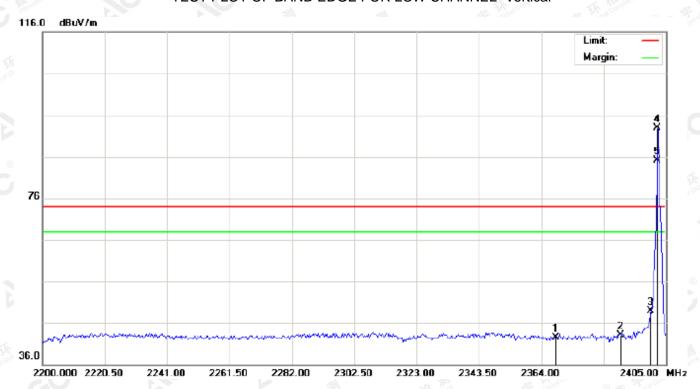
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2370.492	32.46	10.29	42.75	74.00	-31.25	peak			
2		2390.000	34.00	10.31	44.31	74.00	-29.69	peak			
3		2400.000	33.97	10.32	44.29	74.00	-29.71	peak			
4	*	2402.000	83.22	10.32	93.54	74.00	19.54	peak			
5	Х	2402.000	75.22	10.32	85.54	74.00	11.54	AVG	100	84	

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



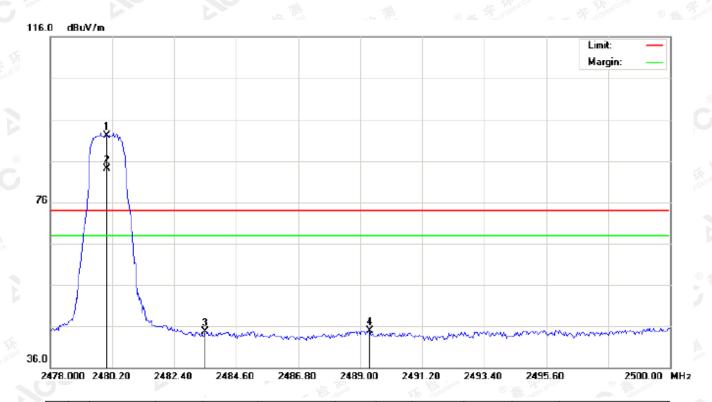
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
<u> </u>	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2368.783	32.15	10.29	42.44	74.00	-31.56	peak			
2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3		2400.000	38.56	10.32	48.88	74.00	-25.12	peak			
4	*	2402.000	82.59	10.32	92.91	74.00	18.91	peak			
5	Х	2402.000	74.75	10.32	85.07	74.00	11.07	AVG	100	208	

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



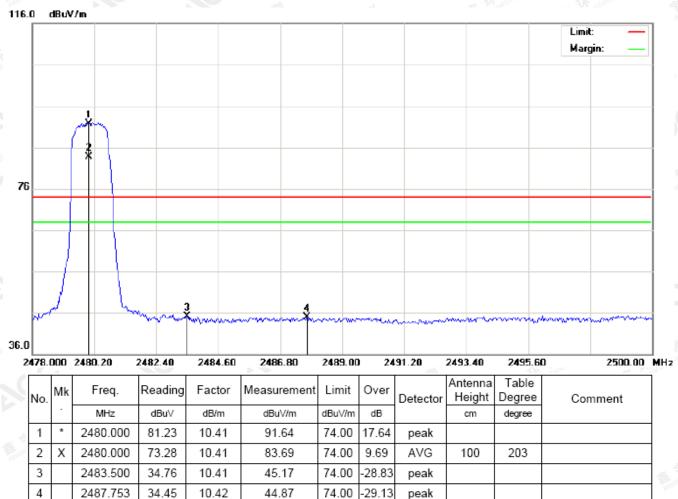
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3	-   -	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	81.71	10.41	92.12	74.00	18.12	peak			
2	Х	2480.000	73.68	10.41	84.09	74.00	10.09	AVG	100	79	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2489.330	34.46	10.42	44.88	74.00	-29.12	peak			

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



### **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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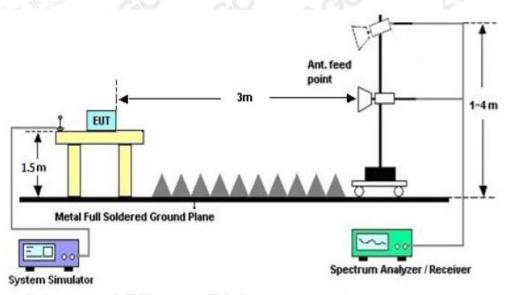
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## 11. 20DB BANDWIDTH

### 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

		VD: " >0	The salls	-100						
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measurement Result								
Applicable Limits		<b>5</b> 11								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The state of the s	Low Channel	0.908	1.078	PASS						
N/A	Middle Channel	0.900	1.060	PASS						
	High Channel	0.900	1.054	PASS						

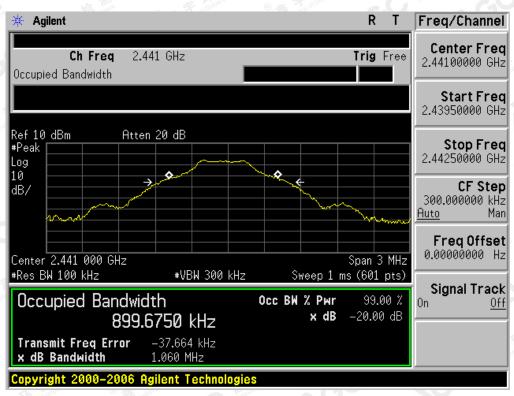
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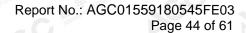
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

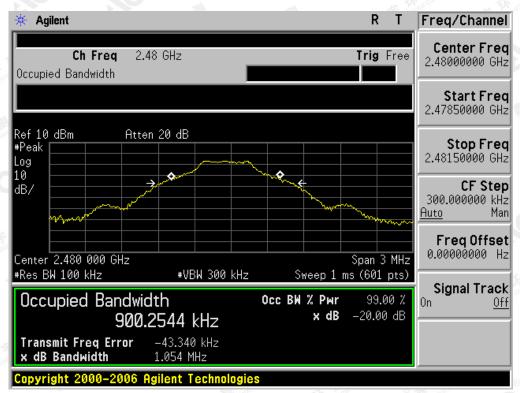


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Decell						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
不是那	Low Channel	1.210	1.382	PASS				
N/A	Middle Channel	1.210	1.366	PASS				
	High Channel	1.210	1.367	PASS				

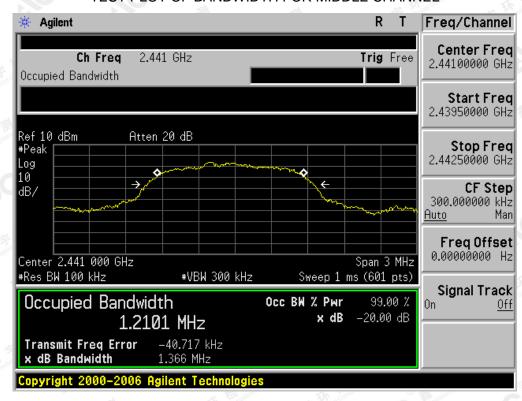
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



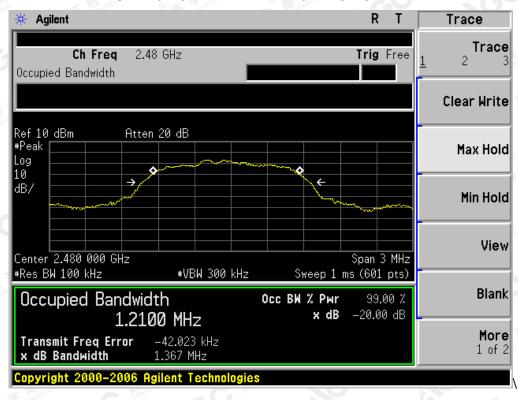
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 12. FCC LINE CONDUCTED EMISSION TEST

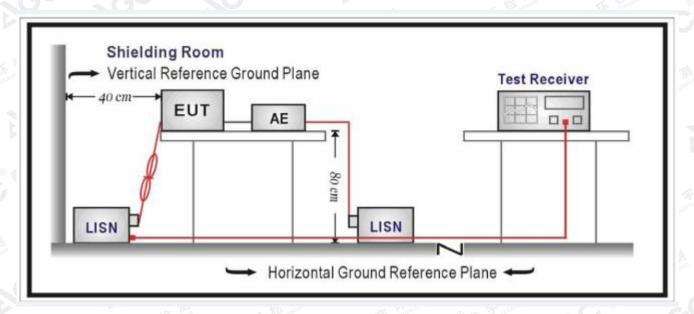
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

- 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.

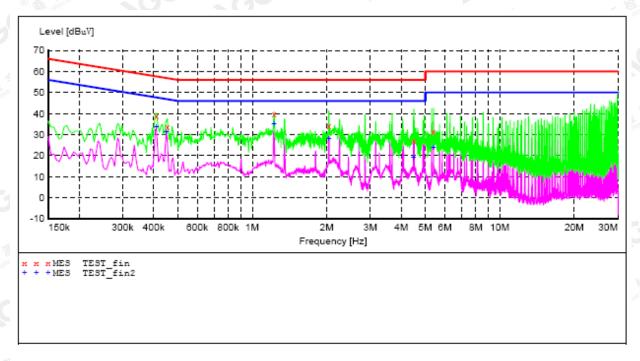
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### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### By adapter(worst case)

### Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000	38.70	10.1	58	18.9	QP	L1	FLO
0.454000	33.70	10.1	57	23.1	QP	L1	FLO
1.226000	39.70	10.2	56	16.3	QP	L1	FLO
2.038000	34.20	10.2	56	21.8	QP	L1	FLO
4.486000	27.00	10.2	56	29.0	QP	L1	FLO
5.402000	31.30	10.3	60	28.7	QP	L1	FLO

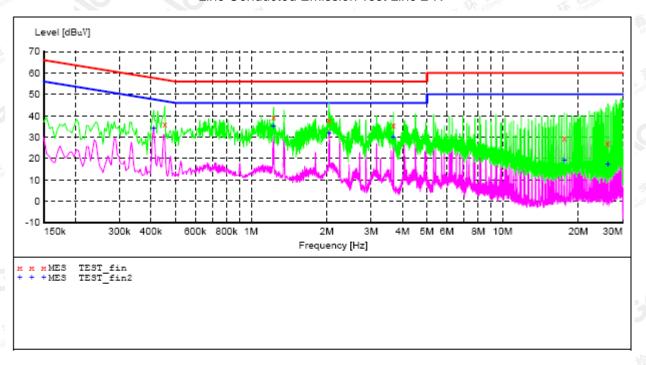
#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000 0.450000 1.226000 2.038000	33.50 31.20 35.10 28.10	10.1 10.1 10.2 10.2	48 47 46 46	14.1 15.7 10.9 17.9	AV AV AV	L1 L1 L1 L1	FLO FLO FLO
4.486000 5.402000	19.40 23.70	10.2	46 50	26.6 26.3	AV AV	L1 L1	FLO FLO

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### Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.454000 1.230000 2.042000 3.678000	35.90 39.10 37.80 35.40	10.1 10.2 10.2 10.1	57 56 56 56	20.9 16.9 18.2 20.6	QP QP QP QP	N N N	FLO FLO FLO
17.574000 26.162000	29.50 27.00	10.3 11.1	60 60	30.5 33.0	QP QP	N N	FLO FLO

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000 1.226000 2.042000 3.678000 17.574000 26.162000	34.30 34.90 31.80 30.00 19.00 17.40	10.1 10.2 10.2 10.1 10.3 11.1	48 46 46 46 50	13.3 11.1 14.2 16.0 31.0 32.6	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



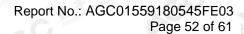
FCC RADIATED EMISSION TEST SETUP



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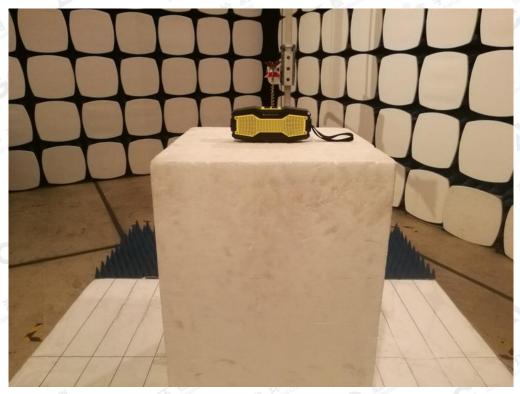
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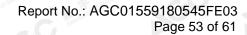








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## **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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## **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT



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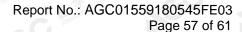
## **BACK VIEW OF EUT**



**LEFT VIEW OF EUT** 



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## RIGHT VIEW OF EUT



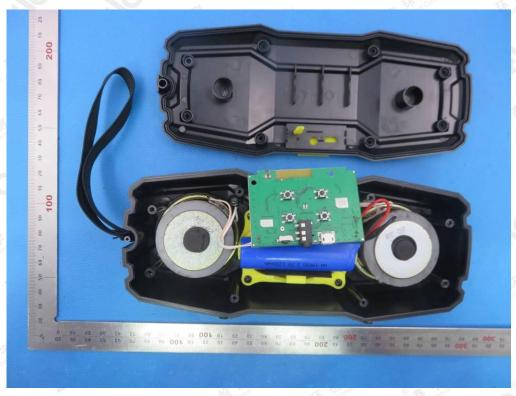
VIEW OF EUT (PORT)



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## **OPEN VIEW OF EUT**



VIEW OF BATTERY



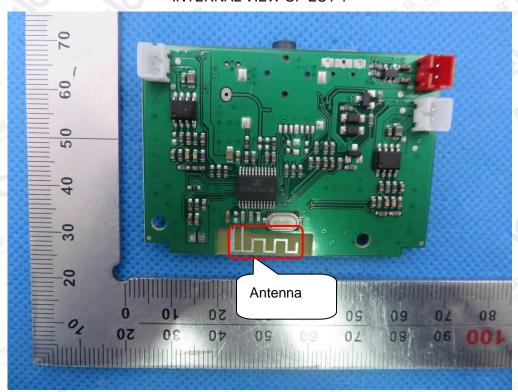
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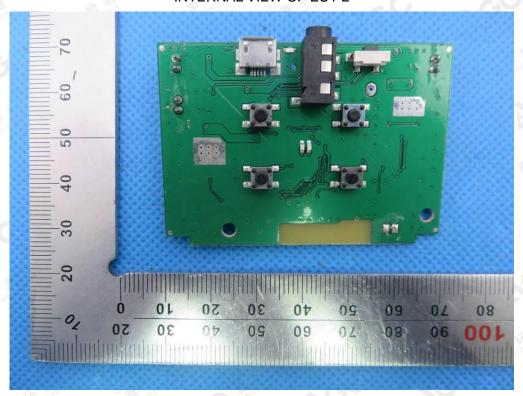
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## **INTERNAL VIEW OF EUT-1**



**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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# **Series color Samples**

**TOTAL VIEW OF EUT-1** 



**TOTAL VIEW OF EUT-2** 



----END OF REPORT----

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