

FCC Test Report

Report No.: AGC01559180301FE03

FCC ID : 2AANZHY-1511

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Alloy PRO Wireless Earphones

BRAND NAME : N/A

MODEL NAME : HY-1511-ASST

CLIENT : DGL Group LTD.

DATE OF ISSUE : Mar. 14, 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

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Marie	Mar. 14, 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	Alloy PRO Wireless Earphones
Brand Name	N/A
Test Model	HY-1511-ASST
Date of test	Mar. 02, 2018 to Mar. 12, 2018
Deviation	None San
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 Wang	
The Compiler of Goods Compiler	Jonhen Wang(Wang Yonghuan)	Mar. 12, 2018
Reviewed By	Foresto ei	A THE
The top of the state of the sta	Forrest Lei(Lei Yonggang)	Mar. 14, 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	-0.45dBm(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
Hardware Version	V4.0
Software Version	V4.0
Antenna Designation	PCB Antenna
Antenna Gain	OdBi ()
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0 1	2402MHz
The fill of the state of the st	The transfer of the state of th	2403MHz
e State adult of Citable Co. State of Citable Co. S	Too : CO	
CC CC	38	2440 MHz
	39	2441 MHz
The transfer of the transfer o	8 % 40 40 F	2442 MHz
or Godenia GO Allentia	0 50	
	77	2479 MHz
	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%.

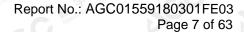
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

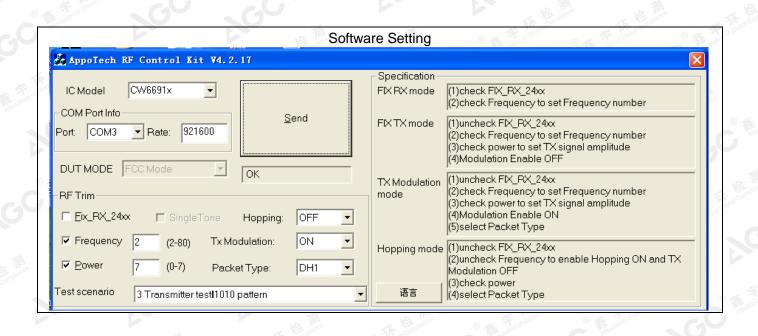
NO.	TEST MODE DESCRIPTION
1 The descriptions	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
15 Th 18 Th	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
G 7	Low channel 8DPSK
8	Middle channel 8DPSK
9 8 A Laborat Color	High channel 8DPSK
10	BT Link with charging
11	BT Link

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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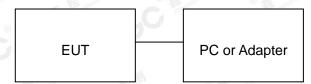


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5. SYSTEM TEST CONFIGURATION

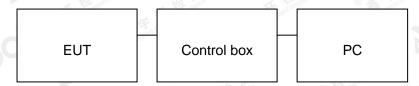
5.1. CONFIGURATION OF EUT SYSTEM

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	
Alloy PRO Wireless Earphones		DGL	HY-1511-ASST	EUT	
2	Battery	Jin Yu Zhou	371029	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	DOFLY	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	0.3m unshielded	Accessory	

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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	G A	Mar. 01, 2018	Feb. 28, 2020



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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 Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	技訓
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co
30 ~ 88	3 F 1000	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. I	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ 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)
- 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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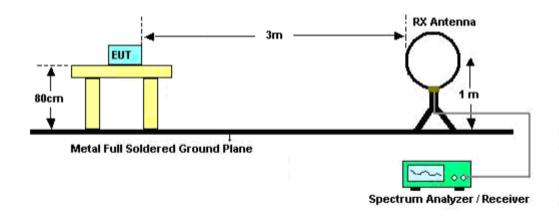
The following table is the setting of spectrum analyzer and receiver.

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

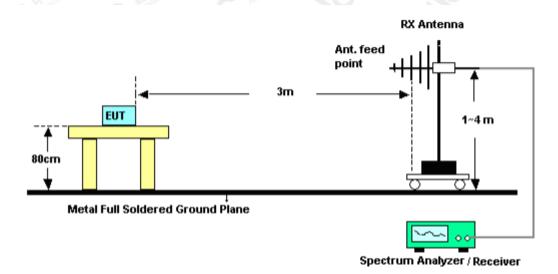


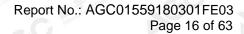
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



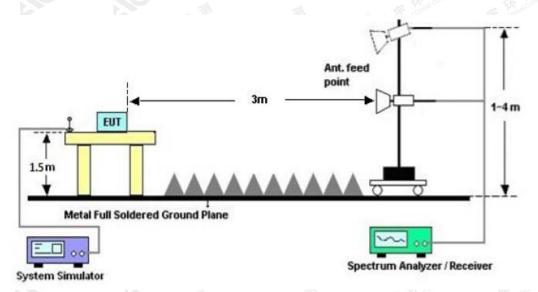
RADIATED EMISSION TEST SETUP 30MHz-1000MHz







RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

(Worst modulation: GFSK)

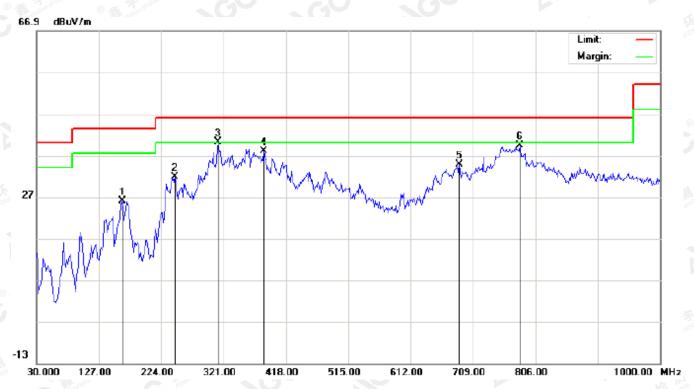
FOR BR/EDR

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



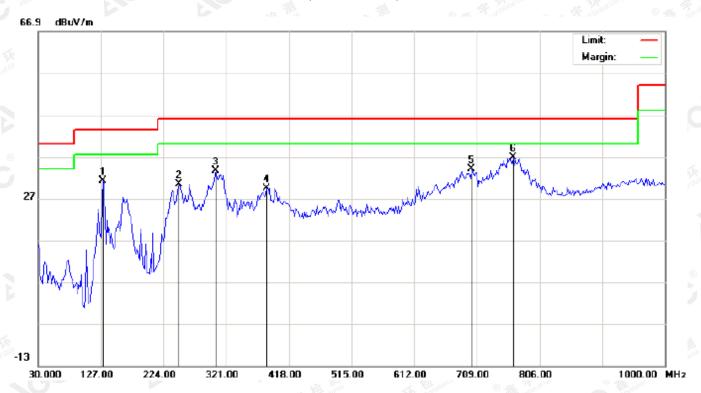
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree		
1		164.1833	15.62	10.48	26.10	43.50	-17.40	peak				7
2		245.0167	24.43	7.41	31.84	46.00	-14.16	peak				7
3	*	312.9167	23.97	16.27	40.24	46.00	-5.76	peak				7
4		384.0500	19.07	18.96	38.03	46.00	-7.97	peak				7
5		687.9833	9.86	24.89	34.75	46.00	-11.25	peak				1
6		781.7500	12.28	27.07	39.35	46.00	-6.65	peak				7

RESULT: PASS



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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW 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		130.2333	20.09	11.13	31.22	43.50	-12.28	peak			
2		248.2500	16.74	13.73	30.47	46.00	-15.53	peak			
3		304.8333	17.86	15.73	33.59	46.00	-12.41	peak			
4		384.0500	10.47	18.96	29.43	46.00	-16.57	peak			
5		700.9167	8.73	25.22	33.95	46.00	-12.05	peak			
6	*	765.5833	10.02	26.85	36.87	46.00	-9.13	peak			

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



No.	Mk	Freq.	Reading		Measurement		Over	Detector	Antenna Height	Degree	Comment
2	_	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		170.6500	14.29	10.72	25.01	43.50	-18.49	peak			
2		235.3167	23.60	8.40	32.00	46.00	-14.00	peak			
3	*	312.9167	23.45	16.27	39.72	46.00	-6.28	peak			
4		385.6667	18.98	18.98	37.96	46.00	-8.04	peak			
5		666.9666	11.00	24.31	35.31	46.00	-10.69	peak			
6		755.8833	12.57	26.71	39.28	46.00	-6.72	peak			

RESULT: PASS



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



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		131.8500	16.78	11.80	28.58	43.50	-14.92	peak			
2		251.4833	16.59	13.94	30.53	46.00	-15.47	peak			
3		304.8333	18.63	15.73	34.36	46.00	-11.64	peak			
4		385.6667	10.78	18.98	29.76	46.00	-16.24	peak			
5		686.3667	9.30	24.82	34.12	46.00	-11.88	peak			
6	*	757.5000	10.04	26.73	36.77	46.00	-9.23	peak			

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



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		39.7000	13.56	11.51	25.07	40.00	-14.93	peak			
2		160.9500	15.43	10.37	25.80	43.50	-17.70	peak			
3		241.7833	24.82	7.74	32.56	46.00	-13.44	peak			
4	į	309.6832	24.60	16.05	40.65	46.00	-5.35	peak			
5		387.2833	19.90	18.99	38.89	46.00	-7.11	peak			
6	*	767.2000	14.76	26.87	41.63	46.00	-4.37	peak	·		

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ę.	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		47.7833	21.62	8.39	30.01	40.00	-9.99	peak			
2		131.8500	15.77	11.80	27.57	43.50	-15.93	peak			
3		246.6333	16.82	13.57	30.39	46.00	-15.61	peak			
4		306.4500	19.19	15.84	35.03	46.00	-10.97	peak			
5		387.2833	11.41	18.99	30.40	46.00	-15.60	peak			
6	*	765.5833	10.22	26.85	37.07	46.00	-8.93	peak			

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.



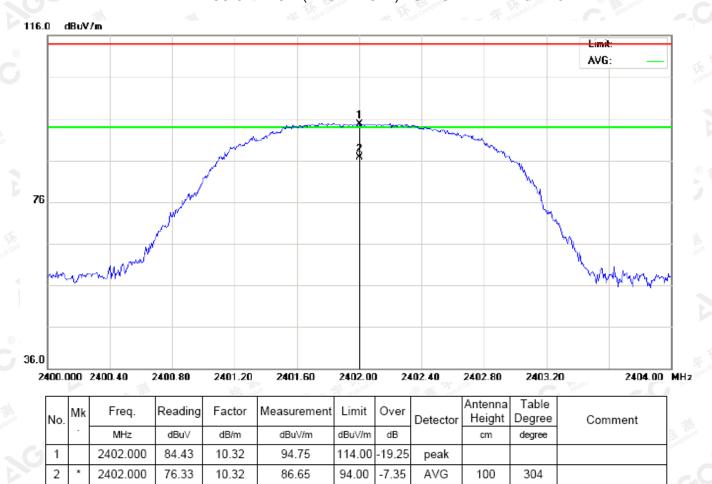
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)
FOR BR/EDR

For Fundamental

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

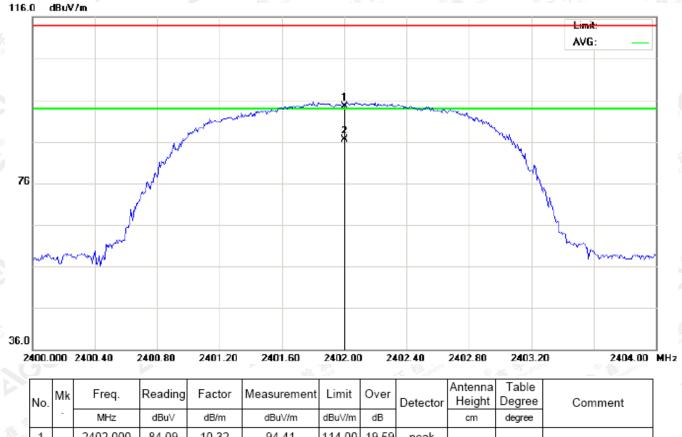


RESULT: PASS



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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
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
12	1		2402.000	84.09	10.32	94.41	114.00	-19.59	peak			
	2	*	2402.000	76.08	10.32	86.40	94.00	-7.60	AVG	100	157	

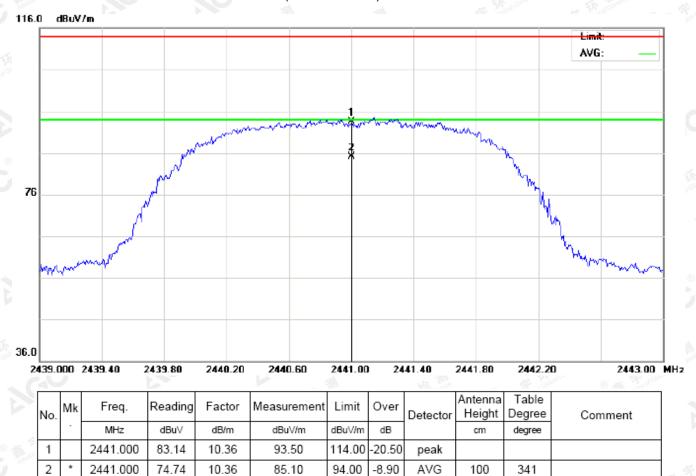
RESULT: PASS

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



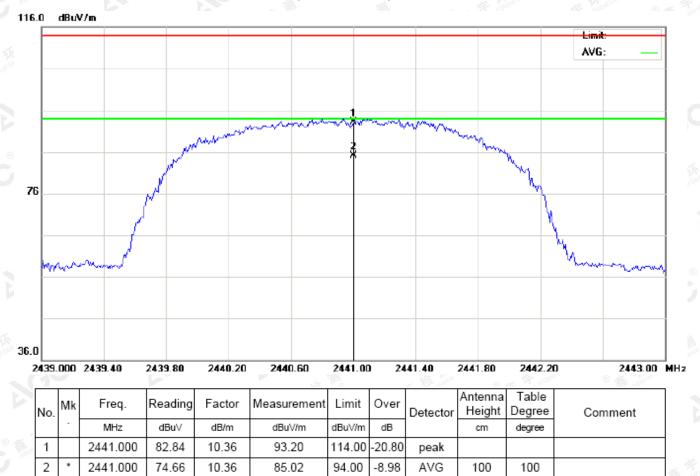
RESULT: PASS

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



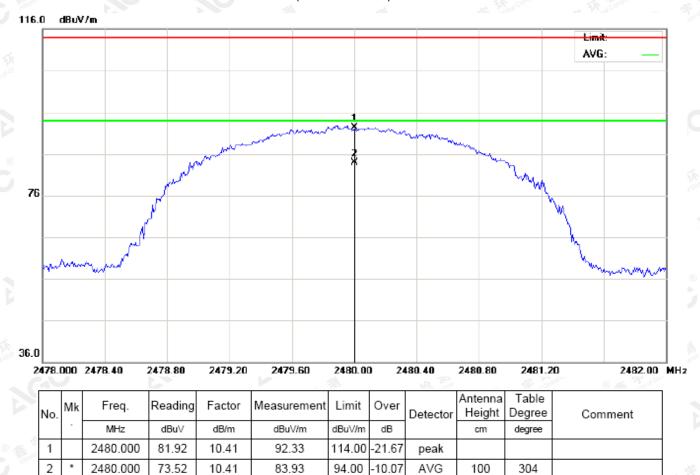
RESULT: PASS

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



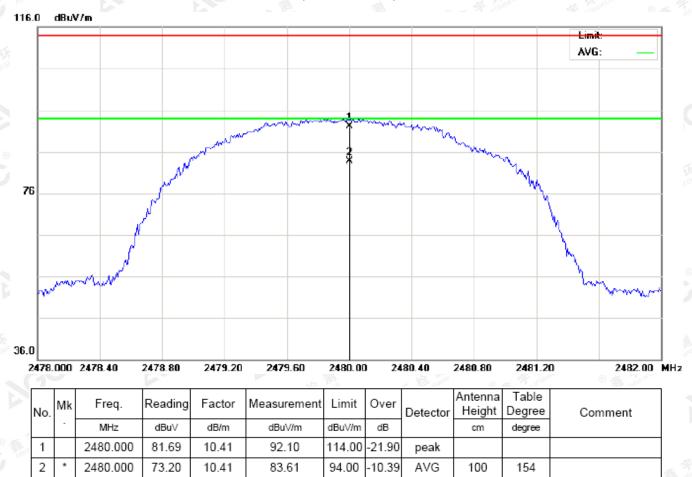
RESULT: PASS

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



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	84.43	10.32	94.75	114	-19.25	Horizontal	
2402	84.09	10.32	94.41	114	-19.59	Vertical	
2441	83.14	10.36	93.50	114	-20.50	Horizontal	
2441	82.84	10.36	93.20	114	-20.80	Vertical	
2480	81.92	10.41	92.33	114	-21.67	Horizontal	
2480	81.69	10.41	92.10	114	-21.90	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.33	10.32	86.65	94	-7.35	Horizontal	
2402	76.08	10.32	86.40	94	-7.60	Vertical	
2441	74.74	10.36	85.10	94	-8.90	Horizontal	
2441	74.66	10.36	85.02	94	-8.98	Vertical	
2480	73.52	10.41	83.93	94	-10.07	Horizontal	
2480	73.20	10.41	83.61	94	-10.39	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	83.89	10.32	94.21	114	-19.79	Horizontal
2402	83.59	10.32	93.91	114	-20.09	Vertical
2441	82.58	10.36	92.94	114	-21.06	Horizontal
2441	82.27	10.36	92.63	114	-21.37	Vertical
2480	81.41	10.41	91.82	114	-22.18	Horizontal
2480	81.15	10.41	91.56	114	-22.44	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.78	10.32	86.10	94	-7.90	Horizontal
2402	75.55	10.32	85.87	94	-8.13	Vertical
2441	74.20	10.36	84.56	94	-9.44	Horizontal
2441	73.87	10.36	84.23	94	-9.77	Vertical
2480	72.99	10.41	83.40	94	-10.60	Horizontal
2480	72.65	10.41	83.06	94	-10.94	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	83.41	10.32	93.73	114	-20.27	Horizontal
2402	83.11	10.32	93.43	114	-20.57	Vertical
2441	82.09	10.36	92.45	114	-21.55	Horizontal
2441	81.85	10.36	92.21	114	-21.79	Vertical
2480	80.95	10.41	91.36	114	-22.64	Horizontal
2480	80.65	10.41	91.06	114	-22.94	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.31	10.32	85.63	94	-8.37	Horizontal
2402	75.05	10.32	85.37	94	-8.63	Vertical
2441	73.71	10.36	84.07	94	-9.93	Horizontal
2441	73.63	10.36	83.99	94	-10.01	Vertical
2480	72.52	10.41	82.93	94	-11.07	Horizontal
2480	72.21	10.41	82.62	94	-11.38	Vertical

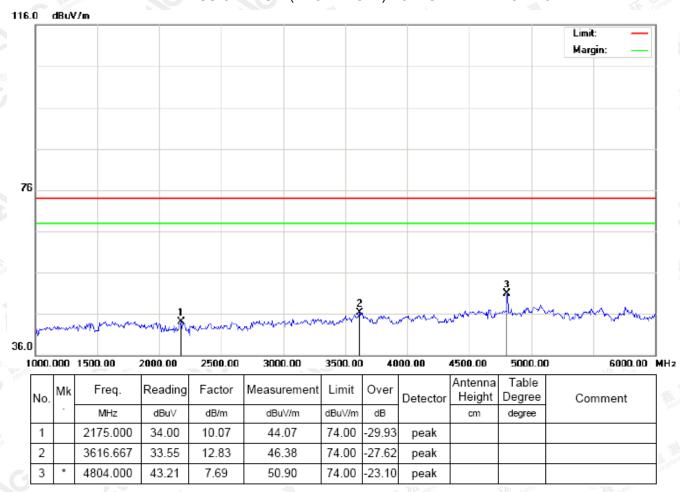


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(Worst modulation: GFSK) FOR BR/EDR

For Harmonics

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

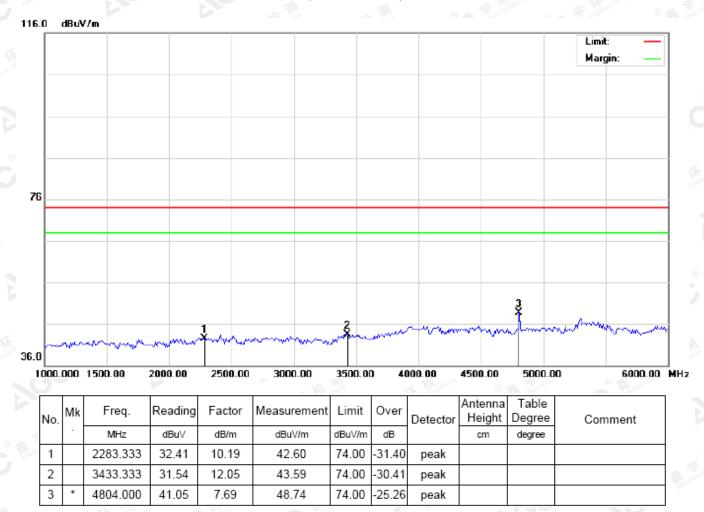


RESULT: PASS



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



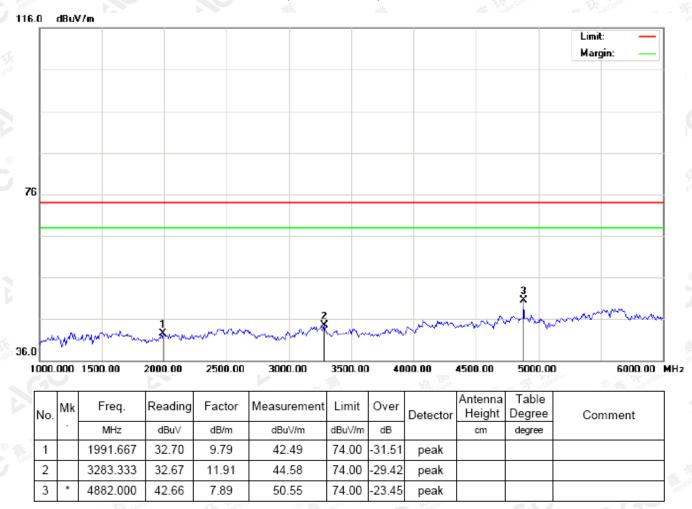
RESULT: PASS

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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 Limit: Margin: 36.0 6000.00 MHz 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 Table Antenna Freq. Reading Factor Measurement Over Limit Height Degree Detector Comment MHz dBu∀ dB/m dBuV/m dBuV/m dΒ degree 1 2433.333 34.05 10.36 44.41 74.00 -29.59 peak 2 3491.667 33.15 12.10 45.25 74.00 -28.75peak

74.00

peak

RESULT: PASS

4882.000

42.39

7.89

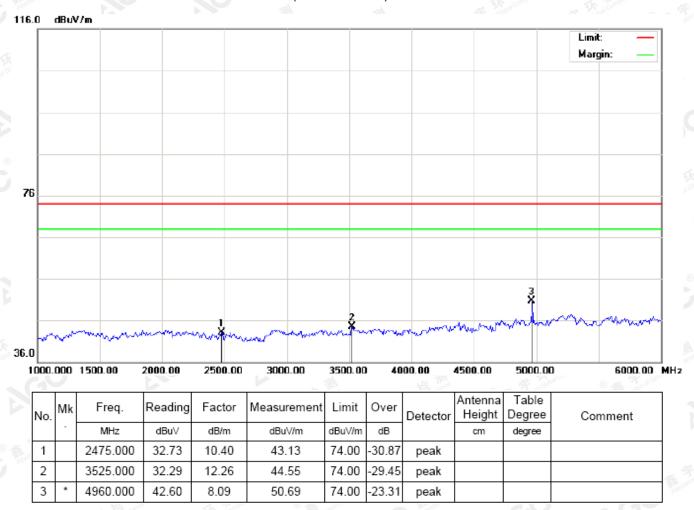
50.28

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



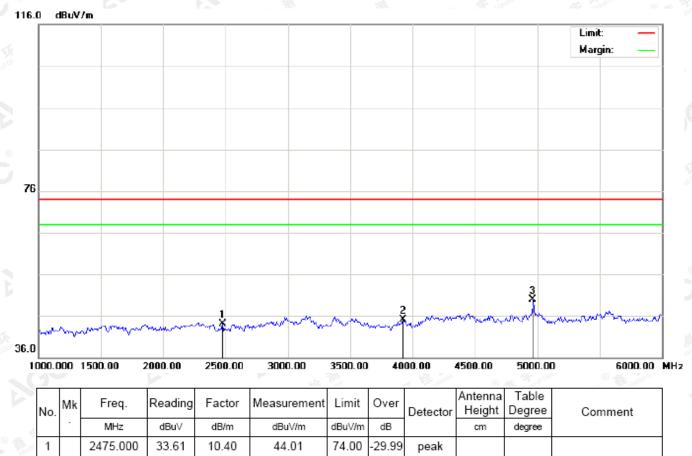
RESULT: PASS

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



RESULT: PASS

3925.000

4960.000

30.33

41.91

2

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

14.73

8.09

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

45.06

50.00

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

74.00

74.00

-28.94

-24.00

peak

peak

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10. BAND EDGE EMISSION

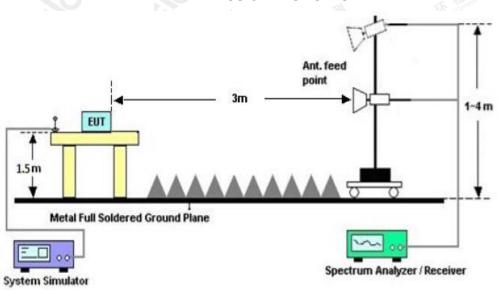
10.1. MEASUREMENT PROCEDURE

- 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 frequenc	y(MHz)			Stop frequency(MH	z)
	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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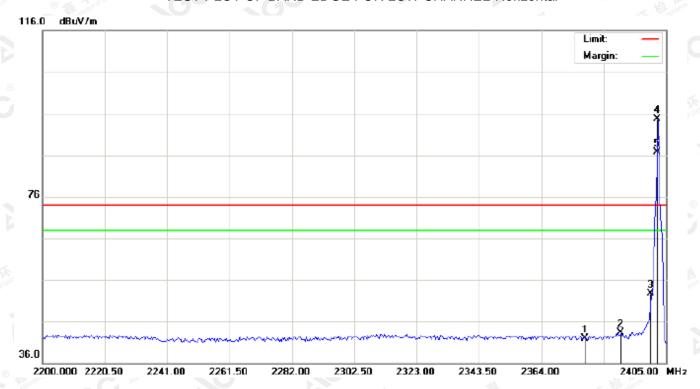
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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

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	dBuV/m	dBu√/m	dB		cm	degree	
1		2378.350	31.66	10.30	41.96	74.00	-32.04	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	84.42	10.32	94.74	74.00	20.74	peak			
5	Х	2402.000	76.29	10.32	86.61	74.00	12.61	AVG	100	301	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



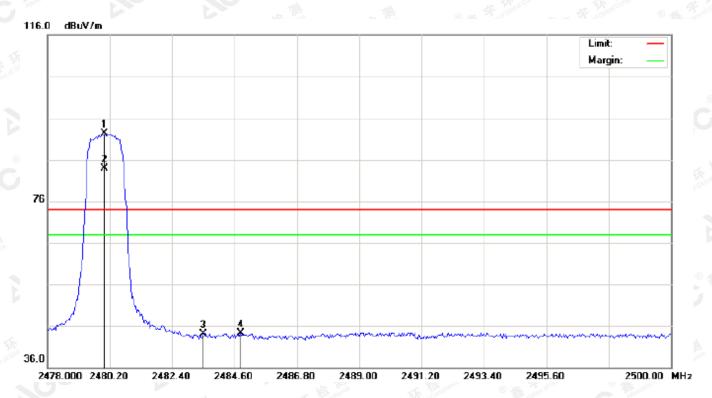
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		2379.375	31.76	10.30	42.06	74.00	-31.94	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	84.08	10.32	94.40	74.00	20.40	peak			
5	Х	2402.000	76.30	10.32	86.62	74.00	12.62	AVG	100	154	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



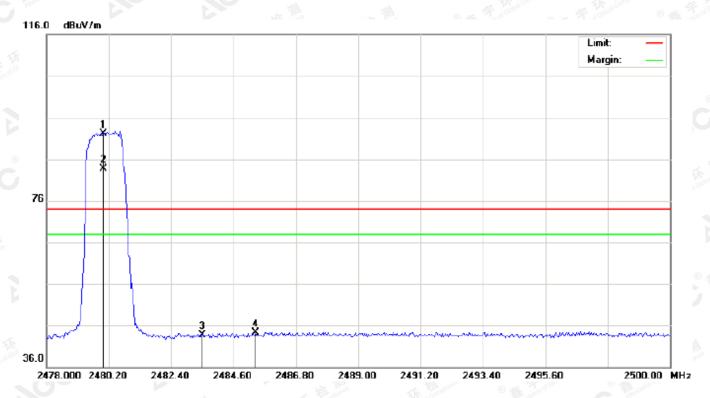
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
i	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB]	cm	degree	
1	*	2480.000	81.90	10.41	92.31	74.00	18.31	peak			
2	Х	2480.000	73.51	10.41	83.92	74.00	9.92	AVG	100	305	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2484.820	33.86	10.41	44.27	74.00	-29.73	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
Ė	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	81.69	10.41	92.10	74.00	18.10	peak			
2	Х	2480.000	73.24	10.41	83.65	74.00	9.65	AVG	100	133	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.370	33.89	10.41	44.30	74.00	-29.70	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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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

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
Sound Commission Co. St. Manufacture	Low Channel	0.990	1.120	PASS						
N/A	Middle Channel	0.986	1.120	PASS						
700	High Channel	0.998	1.120	PASS						

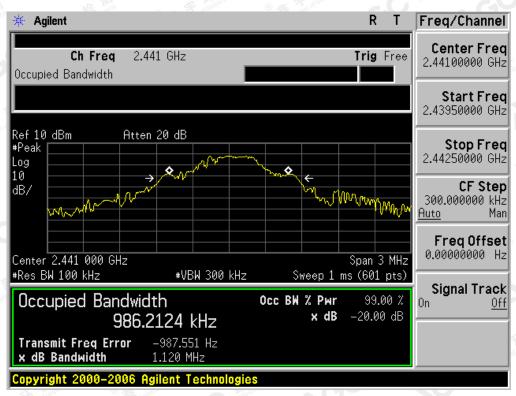
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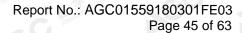
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

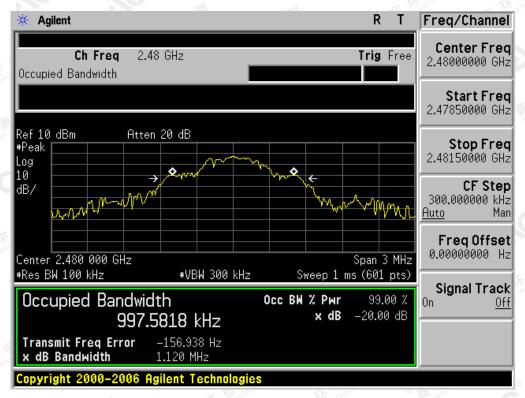


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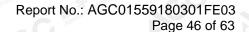




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



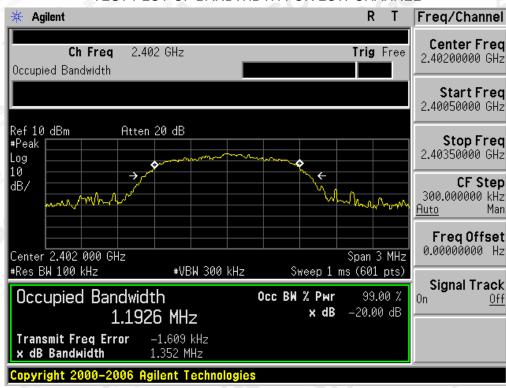
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DILIET	OCTU OMBBO LIB	AITC AND MEACH	DEMENT DECLILE	<u> </u>						
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Decult								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
不 整 测	Low Channel	1.193	1.352	PASS						
N/A	Middle Channel	1.210	1.328	PASS						
COC "	High Channel	1.197	1.347	PASS						

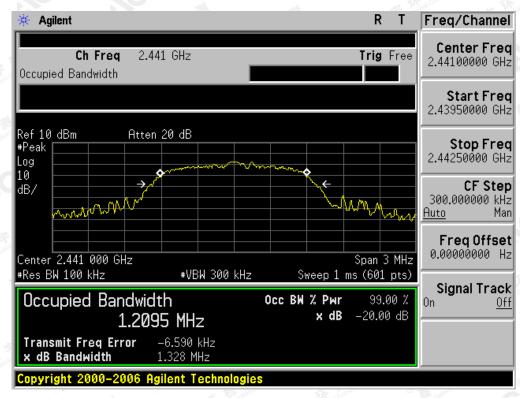
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



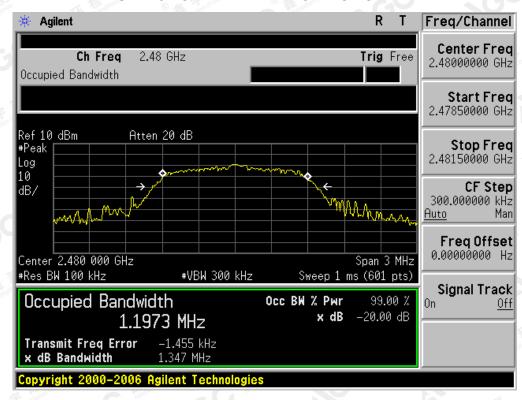
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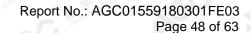
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



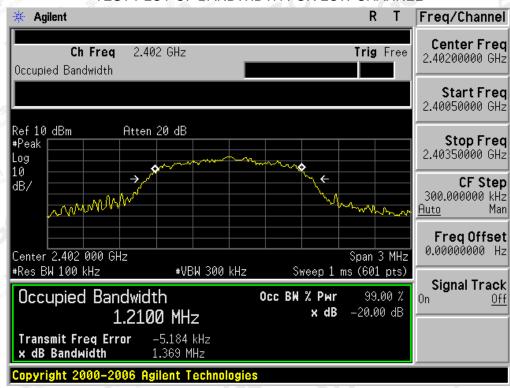
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DI HET/	OTH MADE III	AITS AND MEASU	DEMENT DESILIT	CONT. CONT.						
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result	T						
Applicable Limits		Result								
		Result								
TO THE	Low Channel	1.210	1.369	PASS						
N/A	Middle Channel	1.210	1.349	PASS						
	High Channel	1.193	1.321	PASS						

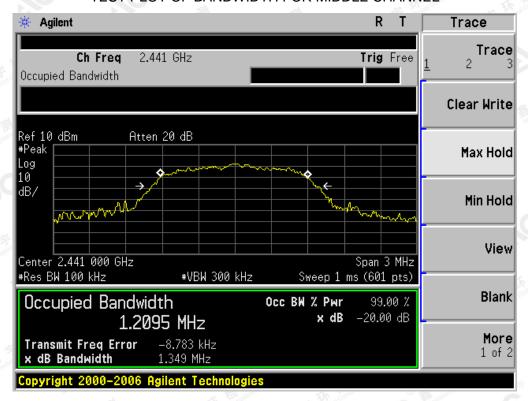
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



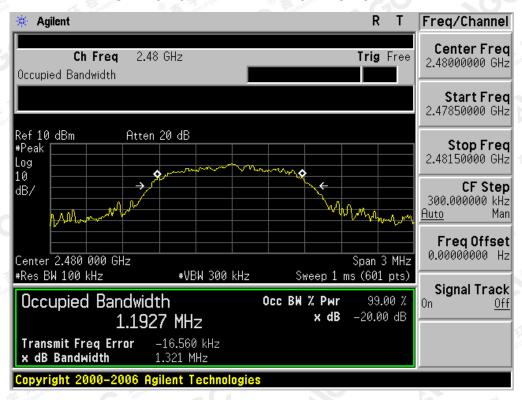
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

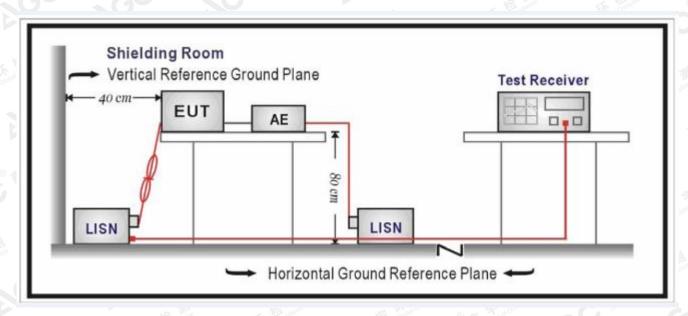
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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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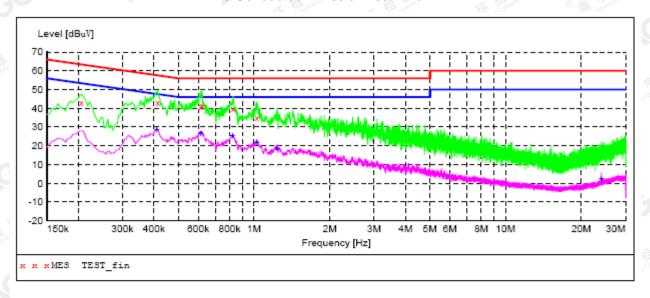
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/3/9 Freque		Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.20	6000	42.80	11.4	63	20.6	QP	L1	FLO
0.41	4000	43.20	11.4	58	14.4	QP	L1	FLO
0.61	4000	40.80	11.4	56	15.2	QP	L1	FLO
0.622	2000	41.30	11.4	56	14.7	QP	L1	FLO
0.82	6000	39.90	11.3	56	16.1	QP	L1	FLO
1.02	6000	35.20	11.3	56	20.8	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/3/9 10:43 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000	28.50	11.4	48	19.1	AV	L1	FLO
0.614000	26.60	11.4	46	19.4	AV	L1	FLO
0.822000	25.20	11.3	46	20.8	AV	L1	FLO
1.026000	21.60	11.3	46	24.4	AV	L1	FLO
1.234000	18.60	11.3	46	27.4	AV	L1	FLO
23.986000	2.40	11.0	50	47.6	AV	L1	FLO

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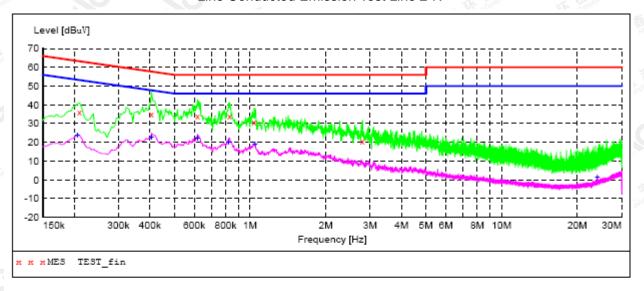
FLO

FLO

Ν



Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

2018/3/9 10:47 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.210000	35.80	11.4	63	27.4	QP	N	FLO
0.406000	34.70	11.4	58	23.0	QP	N	FLO
0.618000	34.10	11.4	56	21.9	QP	N	FLO
0.830000	33.80	11.3	56	22.2	QP	N	FLO

11.3

11.4

56

25.3

35.7

QP

MEASUREMENT RESULT: "TEST fin2"

30.70

20.30

1.038000

2.798000

2018/3/9 10: Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.206000	23.90	11.4	53	29.5	AV	N	FLO
0.406000	22.90	11.4	48	24.8	AV	N	FLO
0.618000	22.20	11.4	46	23.8	AV	N	FLO
0.822000	20.20	11.3	46	25.8	AV	N	FLO
1.046000	18.80	11.3	46	27.2	AV	N	FLO
23.982000	1.50	11.0	50	48.5	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

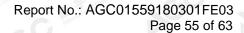


FCC RADIATED EMISSION TEST SETUP



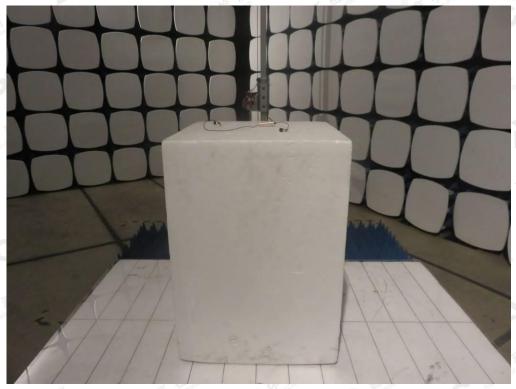
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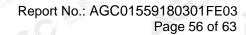




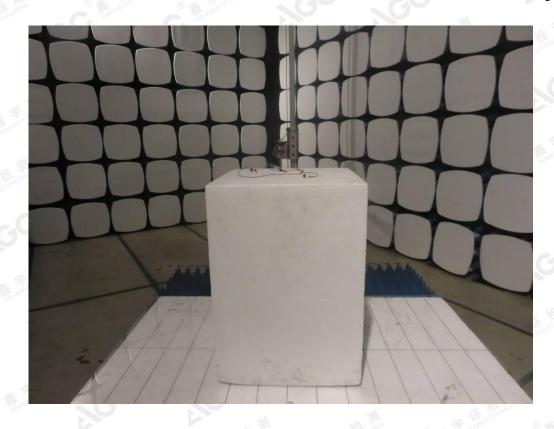


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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



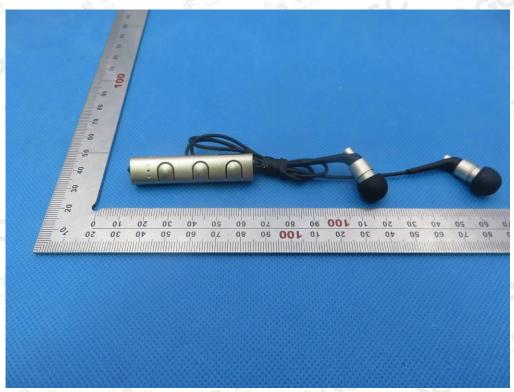
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BOTTOM VIEW OF EUT



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)

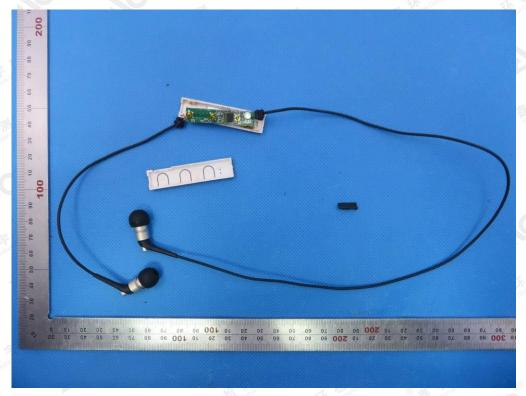


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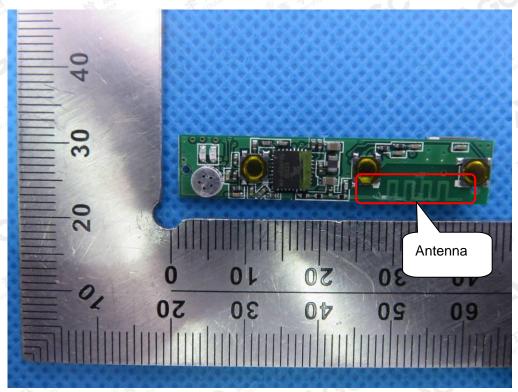
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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1

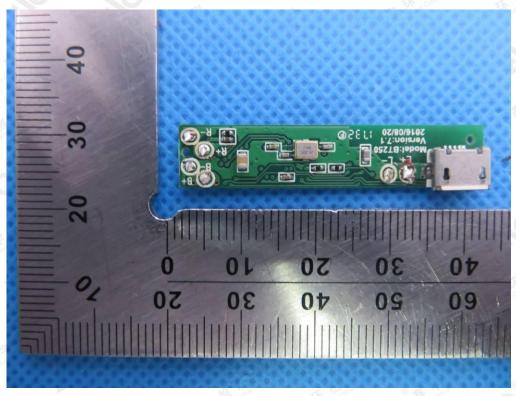


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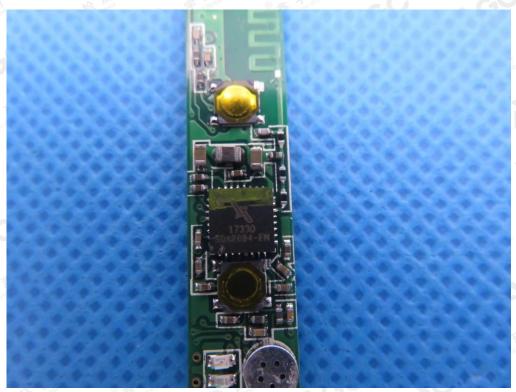
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC
All Color Sample



----END OF REPORT----

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