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FCC Test Report

Report No.: AGC03565180402FE03

FCC ID : 2AIRJ-HYDROBEAST

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Portable Speaker

BRAND NAME : HydroBeast

MODEL NAME : HydroBeast, NX-4017F

CLIENT: Shenzhen Jilongchang Electronics Co.,Ltd

DATE OF ISSUE : May 03, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249:2015

REPORT VERSION V1.0

Attestation of Global Comp

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	The state of the s	May 03, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Jilongchang Electronics Co.,Ltd				
Address	No.134, Gangzai Stree, Furong Industrial Park, Shajing Town, Baoan District, Shenzhen, 518000, China				
Manufacturer	Shenzhen Jilongchang Electronics Co.,Ltd				
Address	No.134, Gangzai Stree, Furong Industrial Park, Shajing Town, Baoan District, Shenzhen, 518000, China				
Product Designation	Portable Speaker				
Brand Name	HydroBeast				
Test Model	HydroBeast				
Series Model	NX-4017F				
Difference Description	All the same except for the mode name.				
Date of test	Apr. 18, 2018 to Apr. 27, 2018				
Deviation	None				
Condition of Test Sample	Normal Statement Control of the Cont				
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	I I	um Tuo	
CC	Tom Tuo(Tuo D	ewei)	Apr. 27, 2018
Reviewed By	· · · · · · · · · · · · · · · · · · ·	id chang	CC The state of th
	Cool Cheng(Cheng N	Mengguo)	May 03, 2018
Approved By	A REAL PROPERTY OF THE PARTY OF	west in	
GC Mark	Forrest Lei(Lei Yo		May 03, 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	1.79dBm(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	4.2
Software Version	4.2
Antenna Designation	PCB Antenna
Antenna Gain	1.2dBi
Power Supply	DC 7.4V 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
100	O K Manager	2402MHz
The Williams		2403MHz
© Figure of Cubbal Co	The same of the sa	
30 ° 300	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
Manufacture (8) Manufacture Commence	40	2442 MHz
GC Marine		
	77	2479 MHz
THE STATE OF THE S	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%.

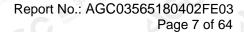
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

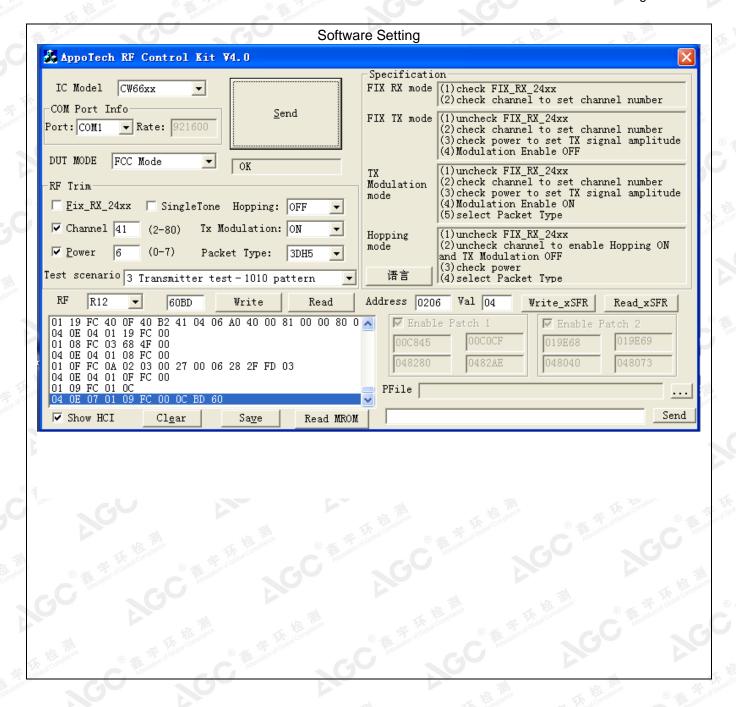
NO.	TEST MODE DESCRIPTION
8 American Section 8	Low channel GFSK
2 60	Middle channel GFSK
3	High channel GFSK
4 展	Low channel π /4-DQPSK
® 5 nd cloud	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
The state of the s	Middle channel 8DPSK
90	High channel 8DPSK
10	BT Link with charging
11th his rolling	BT Link
(1) 100c, INV	

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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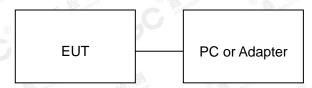


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5. SYSTEM TEST CONFIGURATION

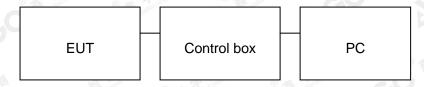
5.1. CONFIGURATION OF EUT SYSTEM

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 ,	Portable Speaker	HydroBeast HydroBeast		EUT	
2	Battery	ZEC	18650	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	DOFLY	LY-USB-TIL V2.2	A.E	
5	Adapter	N/A	MX12X8-0502000UU	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	AUX in Cable	N/A	1m unshielded	A.E	
8	IPOD	APPLE	A1367	A.E	
9	TF Card	Kingston	SDA 10/16GB A.E		
10	U-disk	Kingston	DT101G2	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, 2020
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 Strengths 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)
- 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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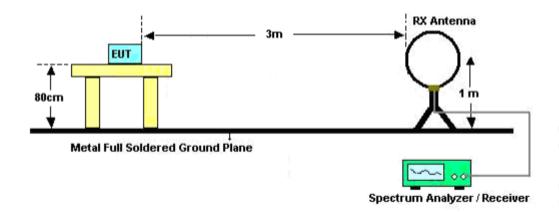
The following table is the setting of spectrum analyzer and receiver.

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

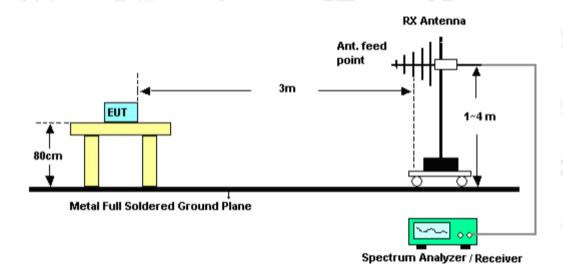


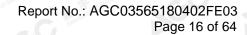
9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



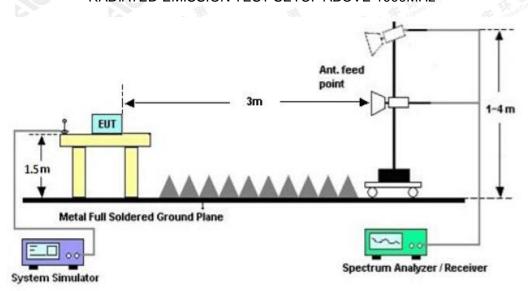
RADIATED EMISSION TEST SETUP 30MHz-1000MHz







RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

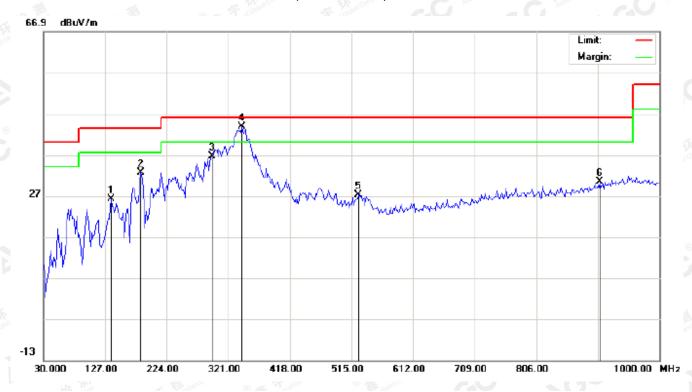
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RADIATED EMISSION BELOW 1GHz

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



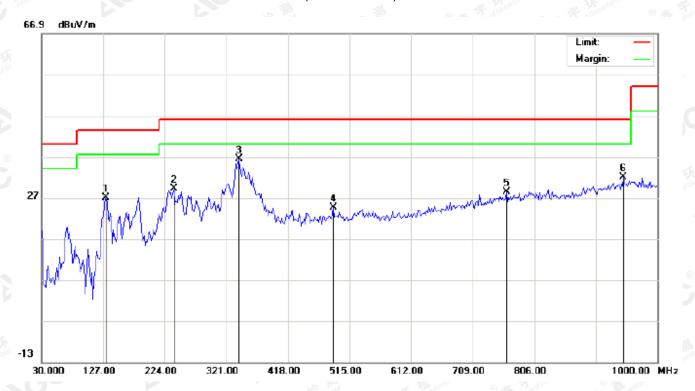
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		136.7000	12.56	13.66	26.22	43.50	-17.28	peak			
2		183.5833	21.43	11.24	32.67	43.50	-10.83	peak			
3		295.1333	21.93	14.58	36.51	46.00	-9.49	peak			
4	*	342.0167	25.58	18.21	43.79	46.00	-2.21	peak			
5		526.3167	5.29	21.84	27.13	46.00	-18.87	peak			
6		906.2333	1.67	28.78	30.45	46.00	-15.55	peak			

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	dBu∀/m	dBu∀/m	dB		cm	degree	
1		131.8500	15.30	11.80	27.10	43.50	-16.40	peak			
2		238.5500	16.42	12.78	29.20	46.00	-16.80	peak			
3	*	340.4000	18.35	18.10	36.45	46.00	-9.55	peak			
4		489.1333	3.56	21.01	24.57	46.00	-21.43	peak			
5		762.3500	1.69	26.80	28.49	46.00	-17.51	peak			
6		946.6500	2.08	29.91	31.99	46.00	-14.01	peak			

RESULT: PASS

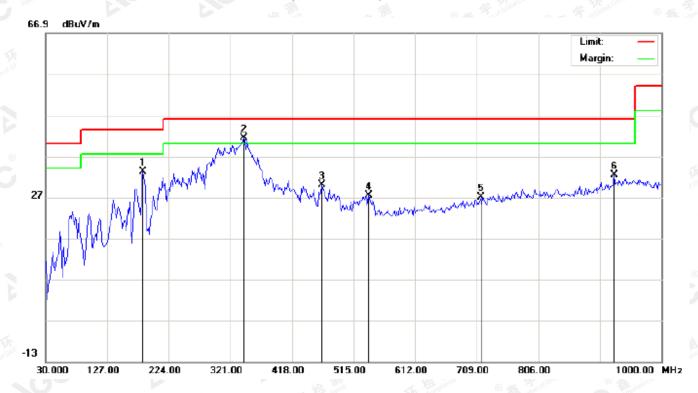
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



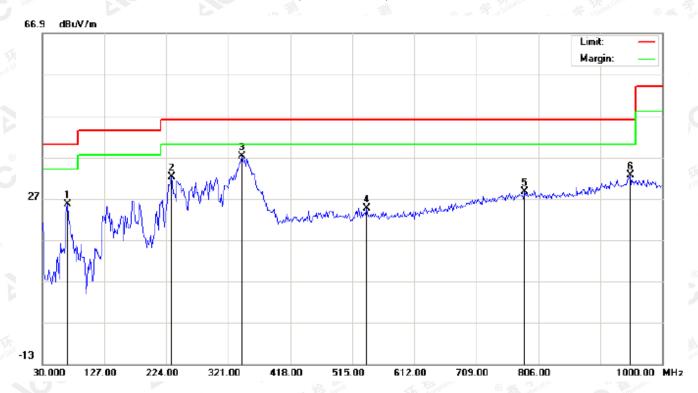
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		183.5833	21.90	11.24	33.14	43.50	-10.36	peak			
2	*	342.0167	23.15	18.21	41.36	46.00	-4.64	peak			
3		464.8833	9.19	20.75	29.94	46.00	-16.06	peak			
4		539.2500	5.21	22.19	27.40	46.00	-18.60	peak			
5		715.4667	1.28	25.66	26.94	46.00	-19.06	peak			
6		925.6333	3.13	29.32	32.45	46.00	-13.55	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	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		68.8000	20.79	4.73	25.52	40.00	-14.48	peak			
2		232.0833	20.05	12.14	32.19	46.00	-13.81	peak			
3	*	342.0167	18.98	18.21	37.19	46.00	-8.81	peak			
4		537.6332	2.49	22.15	24.64	46.00	-21.36	peak			
5		784.9833	1.59	27.11	28.70	46.00	-17.30	peak			
6		949.8833	2.65	30.00	32.65	46.00	-13.35	peak			

RESULT: PASS

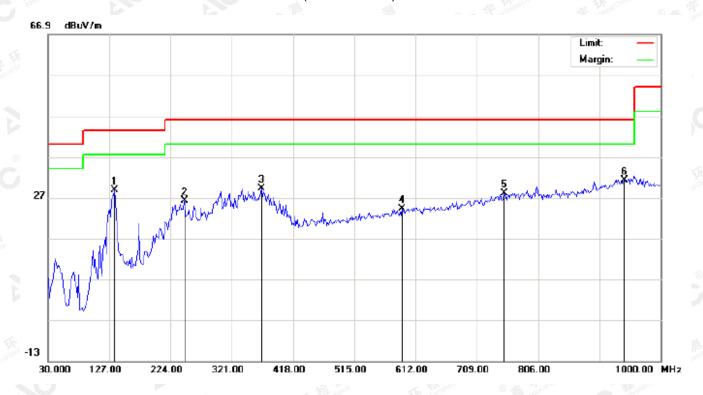
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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		135.0833	15.83	12.90	28.73	43.50	-14.77	peak			
2		246.6333	18.92	7.24	26.16	46.00	-19.84	peak			
3		367.8833	10.37	18.86	29.23	46.00	-16.77	peak			
4		590.9833	0.78	23.50	24.28	46.00	-21.72	peak			
5		752.6500	1.37	26.67	28.04	46.00	-17.96	peak			
6	*	941.8000	1.52	29.77	31.29	46.00	-14.71	peak			

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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
	-	MHz	dBu∀	dB/m	dBu√/m	dBu√/m	dB		cm	degree	
1		131.8500	14.83	11.80	26.63	43.50	-16.87	peak			
2		235.3167	18.50	12.46	30.96	46.00	-15.04	peak			
3	*	340.4000	17.52	18.10	35.62	46.00	-10.38	peak			
4		526.3167	2.28	21.84	24.12	46.00	-21.88	peak			
5		720.3167	1.41	25.78	27.19	46.00	-18.81	peak			
6		948.2667	1.53	29.95	31.48	46.00	-14.52	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.



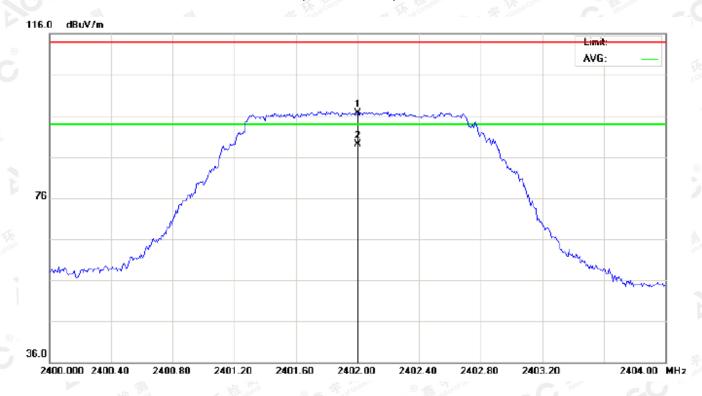
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

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



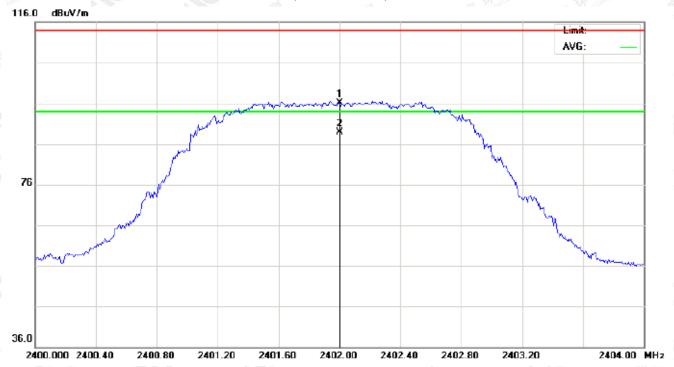
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	86.29	10.32	96.61	114.00	-17.39	peak			
2	*	2402.000	78.81	10.32	89.13	94.00	-4.87	AVG	100	56	

RESULT: PASS



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



N	0.	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	ı		2402.000	85.79	10.32	96.11	114.00	-17.89	peak			
2	2	*	2402.000	78.51	10.32	88.83	94.00	-5.17	AVG	100	217	

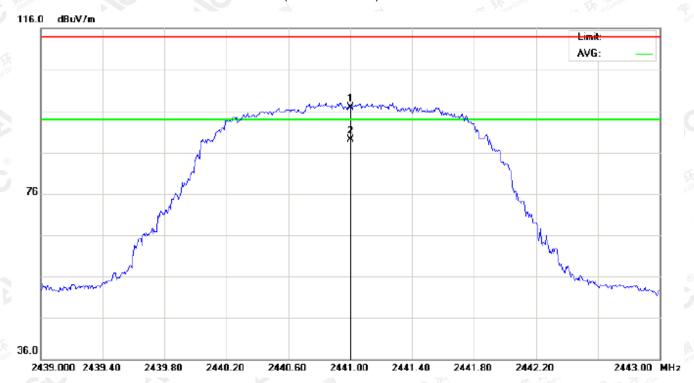
RESULT: PASS

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



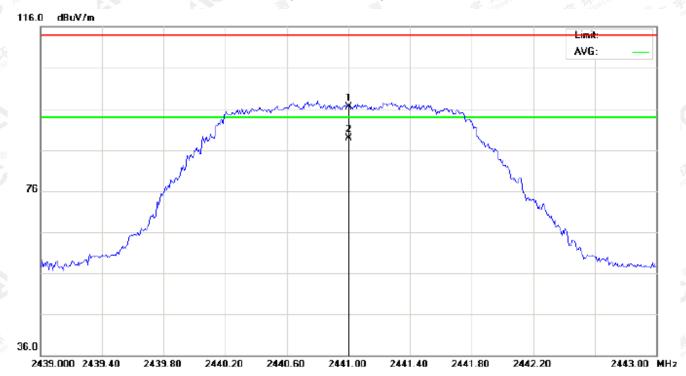
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	86.63	10.36	96.99	114.00	-17.01	peak			
2	*	2441.000	78.82	10.36	89.18	94.00	-4.82	AVG	100	61	

RESULT: PASS



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



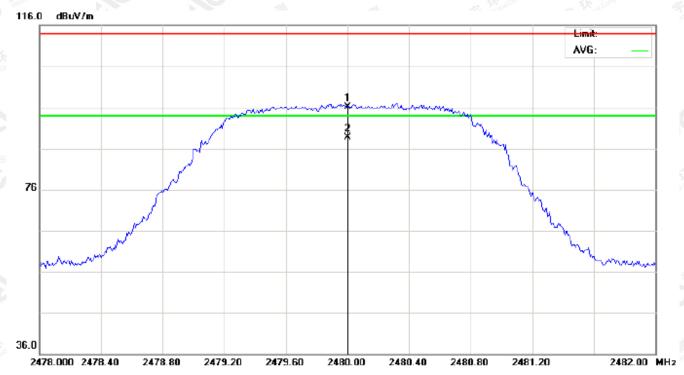
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	86.13	10.36	96.49	114.00	-17.51	peak			
2	*	2441.000	78.48	10.36	88.84	94.00	-5.16	AVG	100	221	

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	dBuV/m	dBu∀/m	dB		cm	degree	
1		2480.000	85.75	10.41	96.16	114.00	-17.84	peak			
2	*	2480.000	78.28	10.41	88.69	94.00	-5.31	AVG	100	52	

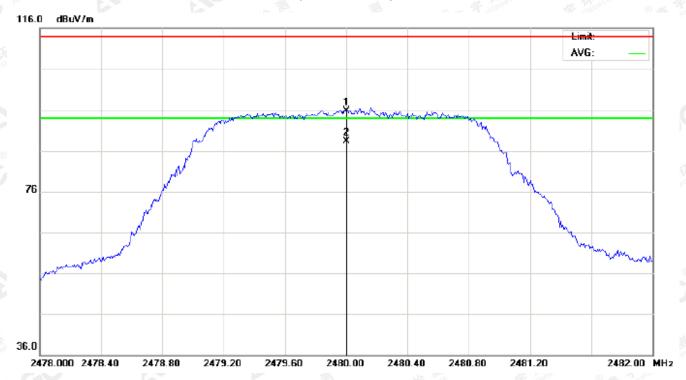
RESULT: PASS

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



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	85.25	10.41	95.66	114.00	-18.34	peak			
2	*	2480.000	77.88	10.41	88.29	94.00	-5.71	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	86.29	10.32	96.61	114	-17.39	Horizontal	
2402	85.79	10.32	96.11	114	-17.89	Vertical	
2441	86.63	10.36	96.99	114	-17.01	Horizontal	
2441	86.13	10.36	96.49	114	-17.51	Vertical	
2480	85.75	10.41	96.16	114	-17.84	Horizontal	
2480	85.25	10.41	95.66	114	-18.34	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.81	10.32	89.13	94	-4.87	Horizontal	
2402	78.51	10.32	88.63	94	-5.17	Vertical	
2441	78.82	10.36	89.18	94	-4.82	Horizontal	
2441	78.48	10.36	88.84	94	-5.16	Vertical	
2480	78.28	10.41	88.69	94	-5.31	Horizontal	
2480	77.88	10.41	88.29	94	-5.71	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	85.89	10.32	96.21	114	-17.79	Horizontal
2402	85.49	10.32	95.81	114	-18.19	Vertical
2441	86.27	10.36	96.63	114	-17.37	Horizontal
2441	85.79	10.36	96.15	114	-17.85	Vertical
2480	85.44	10.41	95.85	114	-18.15	Horizontal
2480	84.91	10.41	95.32	114	-18.68	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.36	10.32	88.68	94	-5.32	Horizontal
2402	77.98	10.32	88.30	94	-5.70	Vertical
2441	78.46	10.36	88.82	94	-5.18	Horizontal
2441	78.03	10.36	88.39	94	-5.61	Vertical
2480	77.93	10.41	88.34	94	-5.66	Horizontal
2480	77.40	10.41	87.81	94	-6.19	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	85.37	10.32	95.69	114	-18.31	Horizontal
2402	84.96	10.32	95.28	114	-18.72	Vertical
2441	85.73	10.36	96.09	114	-17.91	Horizontal
2441	85.17	10.36	95.53	114	-18.47	Vertical
2480	84.91	10.41	95.32	114	-18.68	Horizontal
2480	84.35	10.41	94.76	114	-19.24	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.91	10.32	88.23	94	-5.77	Horizontal
2402	77.37	10.32	87.69	94	-6.31	Vertical
2441	77.92	10.36	88.28	94	-5.72	Horizontal
2441	77.62	10.36	87.98	94	-6.02	Vertical
2480	77.39	10.41	87.80	94	-6.20	Horizontal
2480	76.96	10.41	87.37	94	-6.63	Vertical



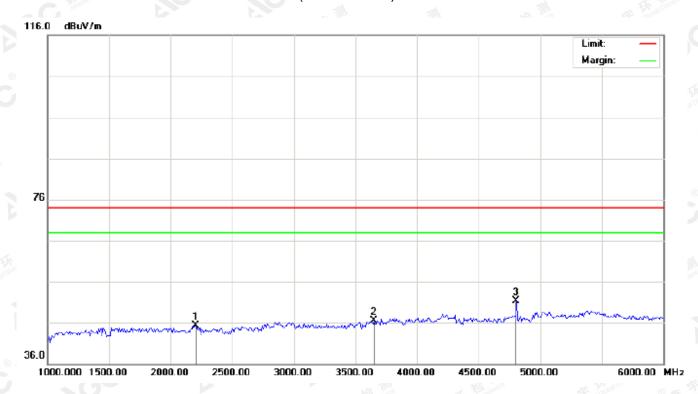
age 33 of 64

FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

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



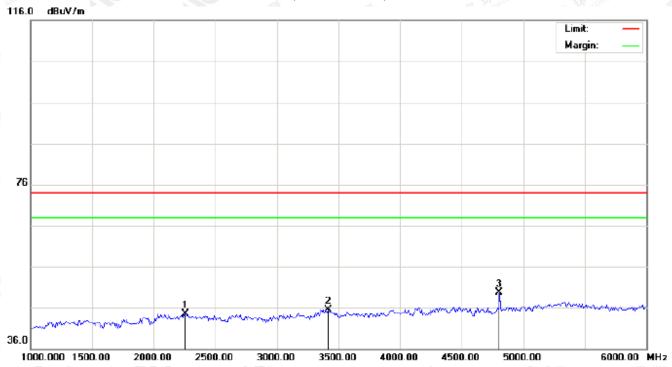
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2200.000	35.15	10.10	45.25	74.00	-28.75	peak			
2		3650.000	33.57	13.03	46.60	74.00	-27.40	peak			
3	*	4804.000	43.71	7.69	51.40	74.00	-22.60	peak			

RESULT: PASS



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



N	0.	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	П		2258.333	34.42	10.16	44.58	74.00	-29.42	peak			
2	2		3416.667	33.57	12.03	45.60	74.00	-28.40	peak			
3	3	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

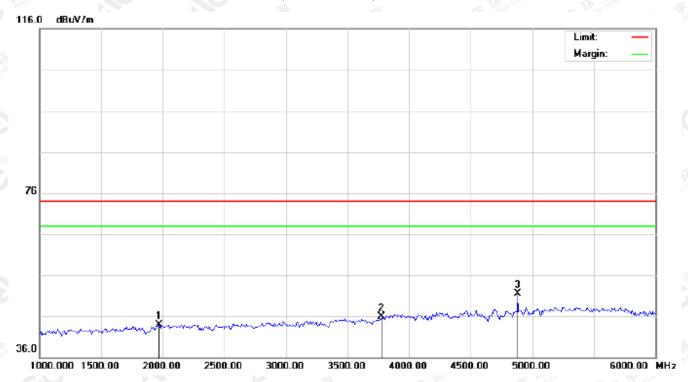
RESULT: PASS

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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		1966.667	34.47	9.53	44.00	74.00	-30.00	peak			
2		3775.000	32.15	13.80	45.95	74.00	-28.05	peak			
3	*	4882.000	43.66	7.89	51.55	74.00	-22.45	peak			

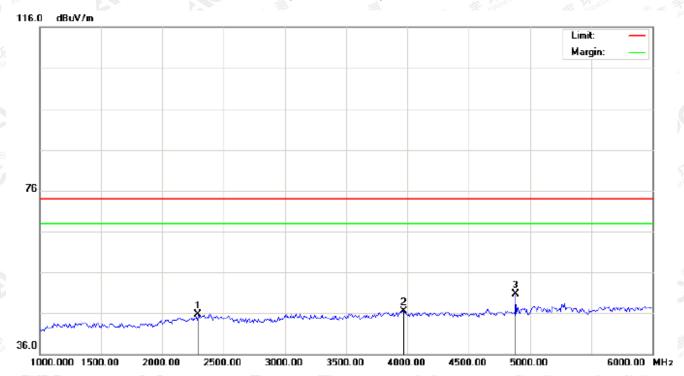
RESULT: PASS

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



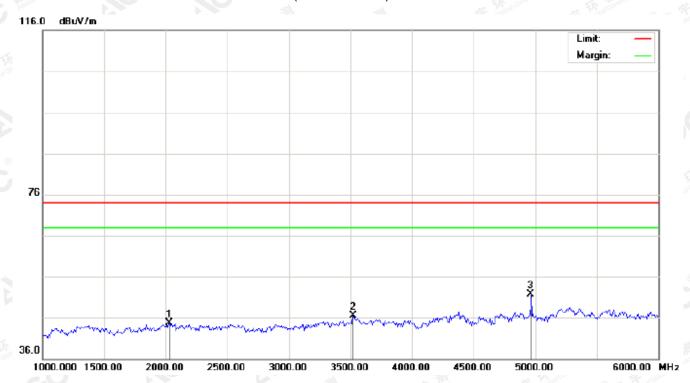
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2291.667	35.47	10.20	45.67	74.00	-28.33	peak			
2		3966.667	31.62	14.98	46.60	74.00	-27.40	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

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		2033.333	34.84	9.92	44.76	74.00	-29.24	peak			
2		3525.000	34.29	12.26	46.55	74.00	-27.45	peak			
3	*	4960.000	43.60	8.09	51.69	74.00	-22.31	peak			

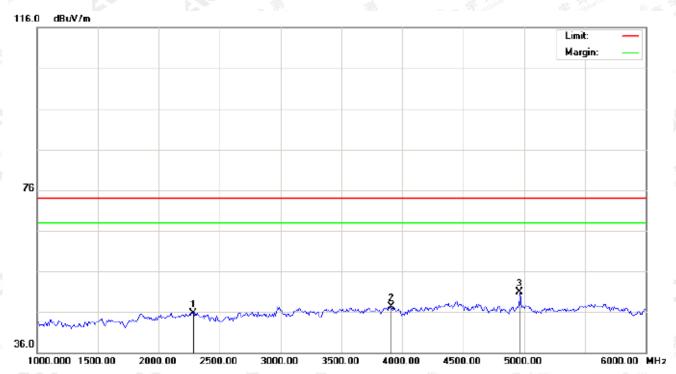
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
, al	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2283.333	35.55	10.19	45.74	74.00	-28.26	peak			
2		3908.333	32.68	14.63	47.31	74.00	-26.69	peak			
3	*	4960.000	42.91	8.09	51.00	74.00	-23.00	peak			

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

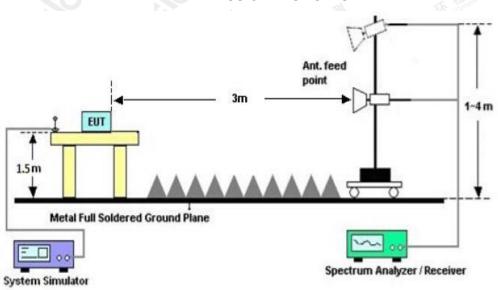
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

	Start frequenc	y(MHz)		Stop frequency(MHz)			
	2200				2405		
(S) ### (1)	2478	3lobal C	testation of Glob	,O .	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	M	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2371.858	31.84	10.29	42.13	74.00	-31.87	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	86.22	10.32	96.54	74.00	22.54	peak			
5	Х	2402.000	78.79	10.32	89.11	74.00	15.11	AVG	100	64	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



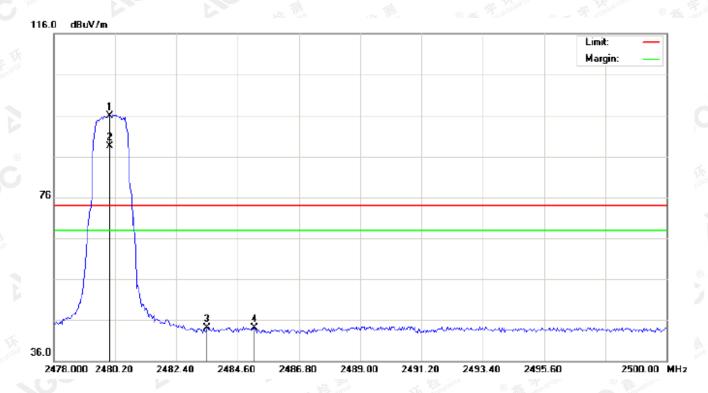
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2365.366	31.57	10.28	41.85	74.00	-32.15	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.56	10.32	46.88	74.00	-27.12	peak			
4	*	2402.000	86.09	10.32	96.41	74.00	22.41	peak			
5	Х	2402.000	78.49	10.32	88.81	74.00	14.81	AVG	100		

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



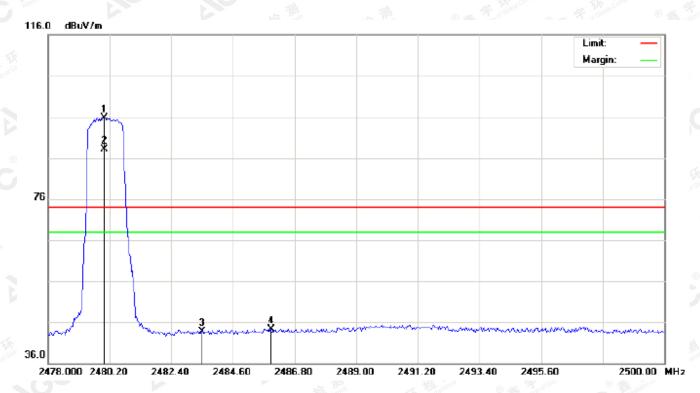
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.55	10.41	95.96	74.00	21.96	peak			
2	Х	2480.000	78.06	10.41	88.47	74.00	14.47	AVG	100	55	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2485.187	33.78	10.41	44.19	74.00	-29.81	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
	1	*	2480.000	85.32	10.41	95.73	74.00	21.73	peak			
	2	Х	2480.000	77.68	10.41	88.09	74.00	14.09	AVG	100	216	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.957	33.98	10.41	44.39	74.00	-29.61	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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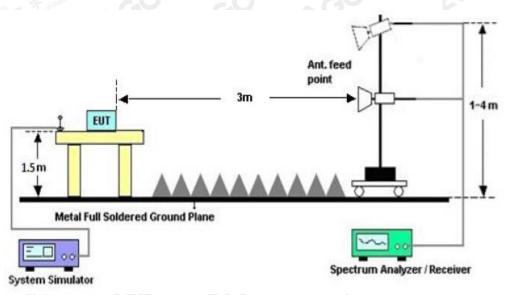
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11. 20DB BANDWIDTH

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

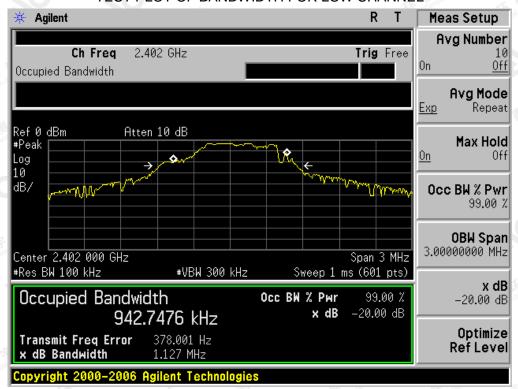
FOR BR/EDR

BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz)	-20dB BW(MHz)	Nesuit					
And Committee Co	Low Channel	0.943	1.127	PASS					
N/A	Middle Channel	0.940	1.126	PASS					
	High Channel	0.971	1.137	PASS					

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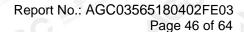
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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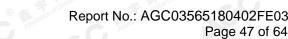




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.120 **PASS** 1.263 **PASS** Middle Channel 1.067 1.187 **PASS High Channel** 1.189 1.310

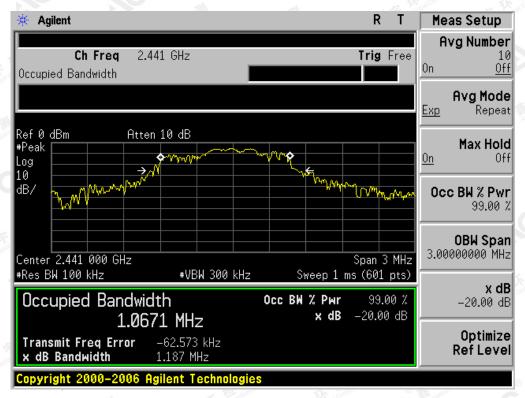
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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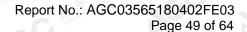
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.165 **PASS** 1.329 1.179 **PASS** N/A Middle Channel 1.305 **PASS** High Channel 1.196 1.328

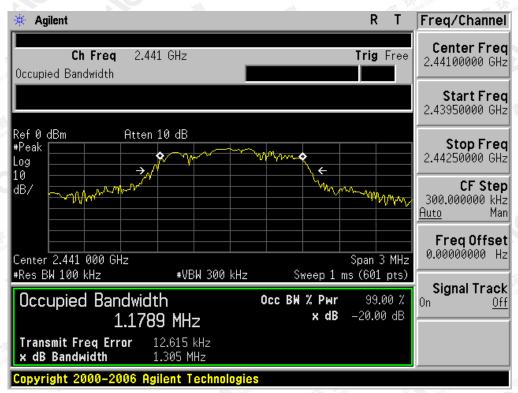
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



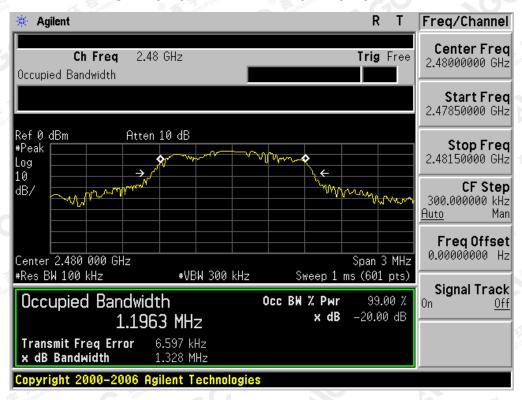
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

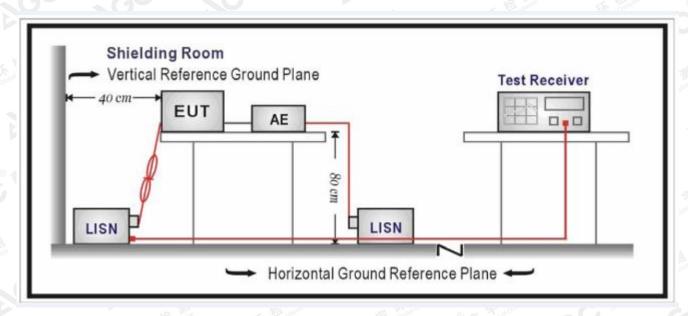
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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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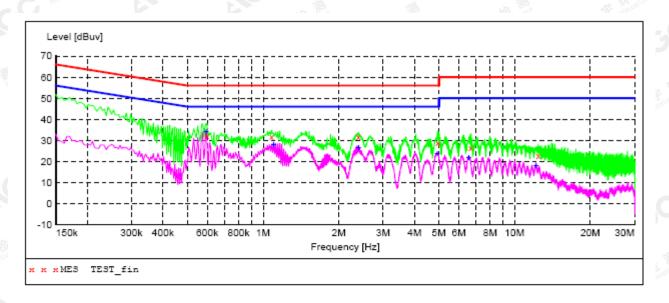
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/4/27 19:28

2010/1/2/ 15.	.20						
Frequency MHz	Level dBuv			Margin dB	Detector	Line	PE
0.598000	32.10	10.1	56	23.9	QP	L1	FLO
1.082000	31.80	10.2	56	24.2	QP	L1	FLO
2.394000	31.70	10.1	56	24.3	QP	L1	FLO
4.946000	29.10	10.3	56	26.9	QP	L1	FLO
6.698000	26.30	10.3	60	33.7	QP	L1	FLO
12,422000	22.70	9.6	60	37.3	OP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

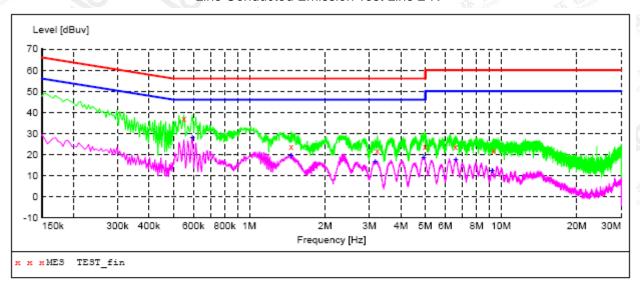
2018/4/27 19:28

Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.594000 1.102000	34.30 28.10	10.1	46 46	11.7 17.9		L1 L1	FLO FLO
2.398000	26.40	10.1	46	19.6		L1	FLO
4.926000 6.566000	23.80 21.90	10.3	46 50	22.2 28.1	AV AV	L1 L1	FLO FLO
12.162000	18.10	9.6	50	31.9	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

0.010	/4/00	10.07
ZUIU	/4/27	19:37

2018/4/2/ 19:	3/						
Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.550000	36.80	10.1	56	19.2	QP	N	FLO
1.466000	23.90	10.2	56	32.1	QP	N	FLO
3.226000	21.90	9.9	56	34.1	QP	N	FLO
4.990000	23.90	10.3	56	32.1	QP	N	FLO
6.590000	23.50	10.3	60	36.5	QP	N	FLO
9.322000	21.80	9.8	60	38.2	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/4/27 19:37

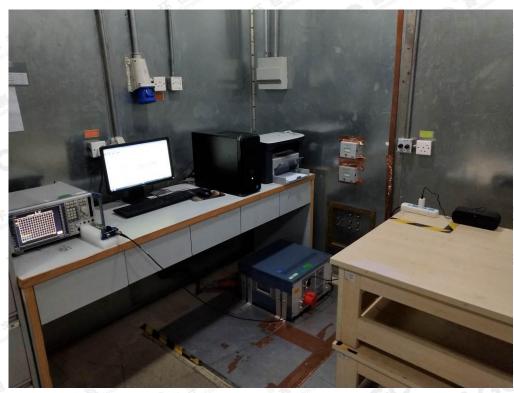
Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.594000	27.80	10.1	46	18.2	AV	N	FLO
1.466000	19.20	10.2	46	26.8	AV	N	FLO
3.166000	16.50	9.9	46	29.5	AV	N	FLO
4.926000	18.60	10.3	46	27.4	AV	N	FLO
6.606000	17.30	10.3	50	32.7	AV	N	FLO
9.206000	12.20	9.9	50	37.8	AV	N	FLO

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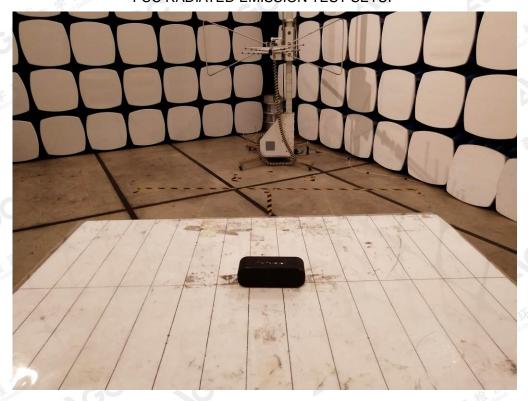


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



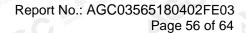
FCC RADIATED EMISSION TEST SETUP



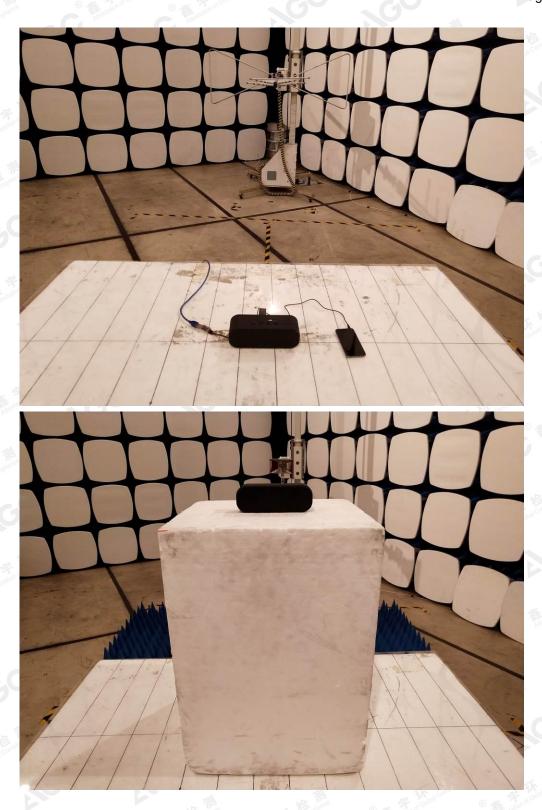
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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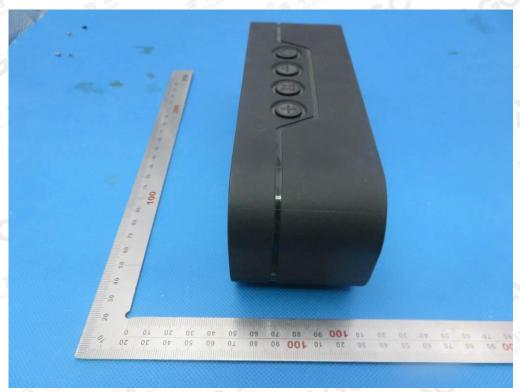
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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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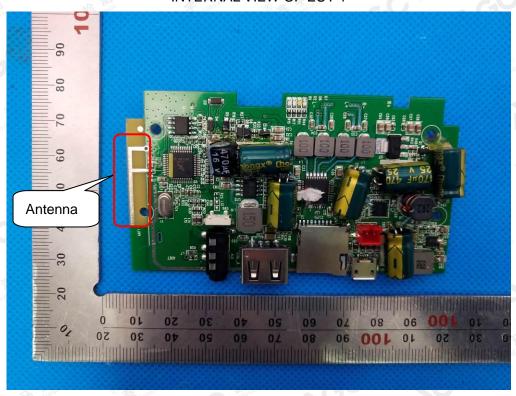
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



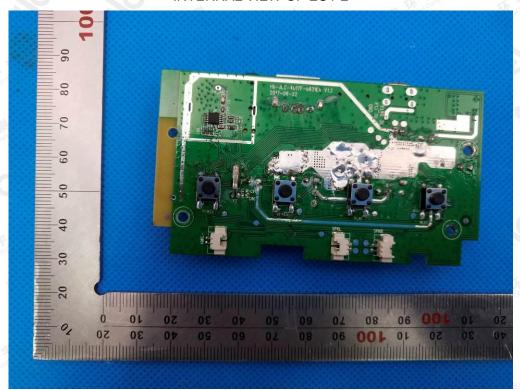
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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