

FCC Test Report

Report No.: AGC01993180601FE03

FCC ID : 2AEKFRSX

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Smart Ski Helmet

BRAND NAME : LIVALL

MODEL NAME RS1, RS2, RS3, RS4, RS5, RS6, RS7, RS8, RS9, RS10, SS1,

SS2, SS3, SS4, SS5, SS6, SS7, SS8, SS9, SS10

CLIENT: LIVALL Tech Co., Ltd.

DATE OF ISSUE : July 16, 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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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		July 16, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	LIVALL Tech Co., Ltd.			
Address	Room 904, 9F., R&D Building, Shenzhen Tsinghua Hi-Tech Park, Nanshan District, Shenzhen, China			
Manufacturer	LIVALL Tech Co., Ltd.			
Address	Room 904, 9F., R&D Building, Shenzhen Tsinghua Hi-Tech Park, Nanshan District, Shenzhen, China			
Product Designation	Smart Ski Helmet			
Brand Name	LIVALL			
Test Model	RS1			
Series Model	RS2, RS3, RS4, RS5, RS6, RS7, RS8, RS9, RS10, SS1, SS2, SS3, SS4, SS5, SS6, SS7, SS8, SS9, SS10			
Difference Description	All the same except for the appearance structure			
Date of test	June 29, 2018 to July 13, 2018			
Deviation	None of the state			
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 Wan	S SE TO A STORMAN
bal Complian	Jonhen Wang	(Wang Yonghuan)	July 13, 2018
Reviewed By		cual change	
	Cool Cheng(Cheng Mengguo)	July 16, 2018
Approved By	不 提 測	Forest ce	© Martiner of Colonia Complainted
© Filestan	Forrest Lei	i(Lei Yonggang) rized Officer	July 16, 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	
Bluetooth Version	V4.2	The state of the s
Bluetooth module	AB1522S	NRF51822
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ☑GFSK
Number of channels	79 for BR/EDR, 40 for BLE	the country of the state of the
Hardware Version	V1.3	CO E
Software Version	V1.0	不是那 不是那
Antenna Designation	PCB Antenna	O M. Maria de Maria Como Como Como Como Como Como Como Com
Antenna Gain	0dBi for AB1522S, 0dBi for NRF51822	C C C D
Power Supply	DC 3.7V by battery	
intercom(NRF51822).	etooth modules. One is for Bluetooth head	CO CO

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
CC *** CC	0	2402MHz
	· 利1	2403MHz
The state of the s	(a) The standard count (b) The standard of the	-C - 10 10
of Goldan Company	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
711	40	2442 MHz
S To the state of	and com	
S American CO	77	2479 MHz
	78	2480 MHz

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BLE Channel List

Frequency Band	Channel Number	Frequency	
A cooling committee of the committee of	C image CO	2402MHz	
C American	1 4	2404MHz	
2400~2483.5MHz	M Thomas The State of the State		
The Manufactor	38	2478 MHz	
Milestyllon O' (8) Milestyllon old O'	39	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

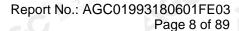
4. DESCRIPTION OF TEST MODES

	W. Co., 24 100g.
NO.	TEST MODE DESCRIPTION
© ## 1 rd 0000 00 .	Low channel GFSK
2 2	Middle channel GFSK
3	High channel GFSK
4 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Low channel π /4-DQPSK
© 45 to the contract of the co	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
# Thurstonn 8 @ # Hand	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

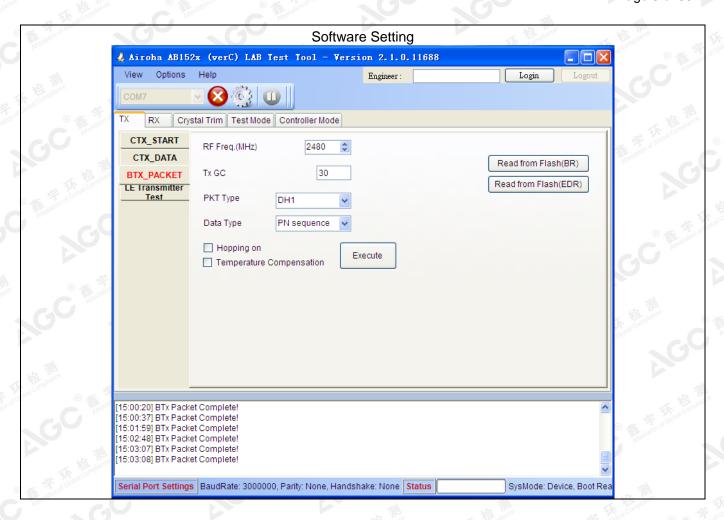
Note:

- 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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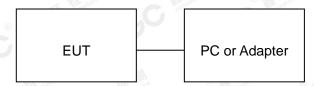


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5. SYSTEM TEST CONFIGURATION

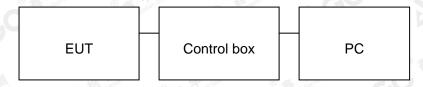
5.1. CONFIGURATION OF EUT SYSTEM

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
1 ,	Smart Ski Helmet	LIVALL	RS1	EUT
2	Battery	GUOJU	GJ504050	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	AIROHA	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1367	A.E
7	Mobile phone	APPLE	8 Plus	A.E

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5.3. SUMMARY OF TEST RESULTS

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

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

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

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	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)	E. A. S.					
1.705 ~ 30	30	30	E Cobado @ E Color					
30 ~ 88	3	100	40.0					
88 ~ 216	3 - 6	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3 January Community	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.

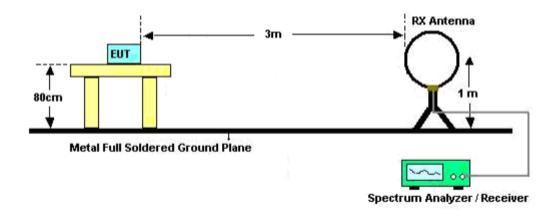
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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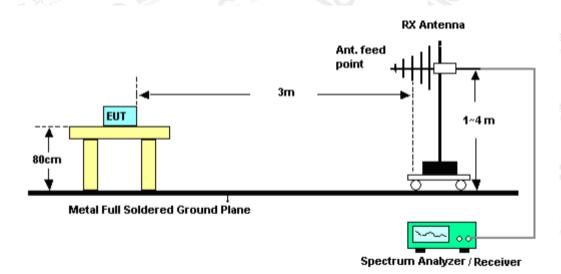
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

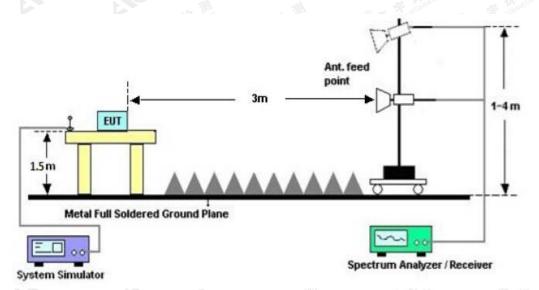


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

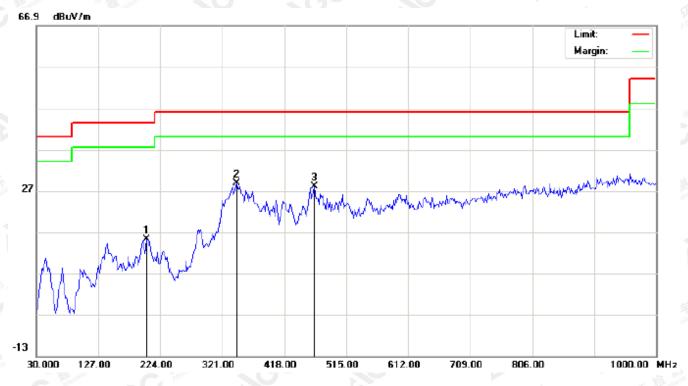
(Worst modulation: 8DPSK)

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	Table Degree	Comment
ľ	10.	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
3	1		202.9832	3.46	11.70	15.16	43.50	-28.34	peak			
35	2	*	343.6333	10.49	18.32	28.81	46.00	-17.19	peak			
	3		464.8833	7.26	20.75	28.01	46.00	-17.99	peak			

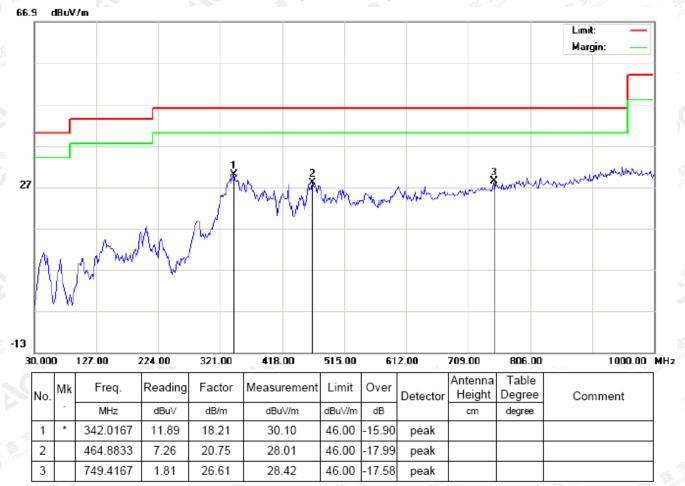
RESULT: PASS

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



RESULT: PASS

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

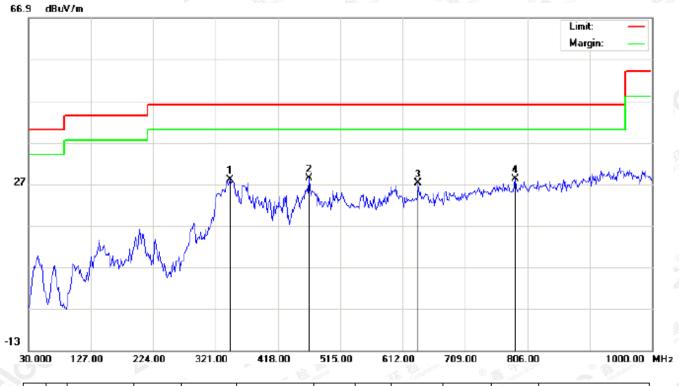
2. The "Factor" value can be calculated automatically by software of measurement system.

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
727		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
ं	1		343.6333	9.76	18.32	28.08	46.00	-17.92	peak			
	2	*	466.5000	7.56	20.77	28.33	46.00	-17.67	peak			
	3		636.2500	3.39	23.82	27.21	46.00	-18.79	peak			
	4		786.6000	1.04	27.14	28.18	46.00	-17.82	peak	·		

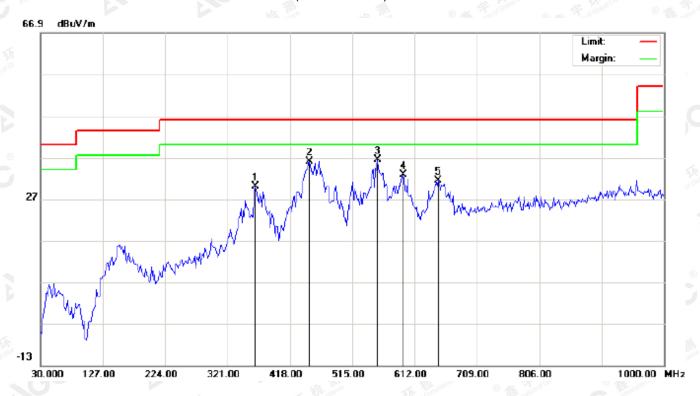
RESULT: PASS

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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		
10	1		364.6500	11.13	18.84	29.97	46.00	-16.03	peak				
	2		448.7167	15.46	20.55	36.01	46.00	-9.99	peak				
	3	*	553.8000	13.91	22.50	36.41	46.00	-9.59	peak				
	4		594.2167	10.11	22.70	32.81	46.00	-13.19	peak				
	5		649.1833	7.64	23.83	31.47	46.00	-14.53	peak				JAMA
- 4													1

RESULT: PASS

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

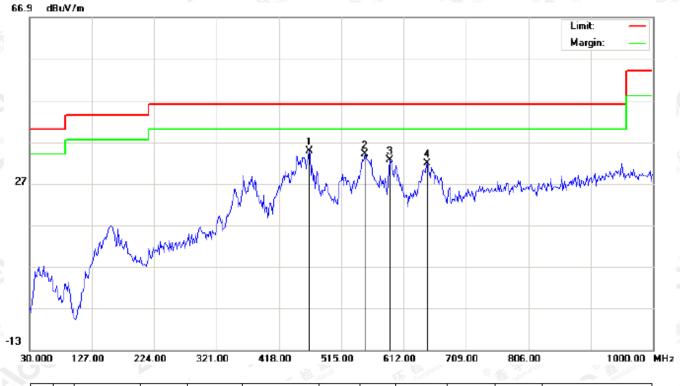
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No). N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ă		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		*	464.8833	14.06	20.75	34.81	46.00	-11.19	peak			
2			552.1833	11.44	22.49	33.93	46.00	-12.07	peak			
3			590.9833	9.98	22.68	32.66	46.00	-13.34	peak			
4			649.1833	7.99	23.83	31.82	46.00	-14.18	peak			

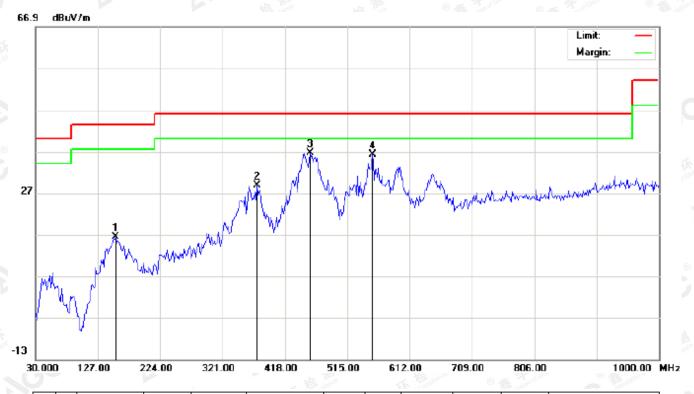
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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d)		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
V.	1		154.4832	1.09	15.29	16.38	43.50	-27.12	peak			
	2		374.3500	9.86	18.90	28.76	46.00	-17.24	peak			
	3	*	456.8000	15.89	20.66	36.55	46.00	-9.45	peak			
	4		553.8000	13.72	22.50	36.22	46.00	-9.78	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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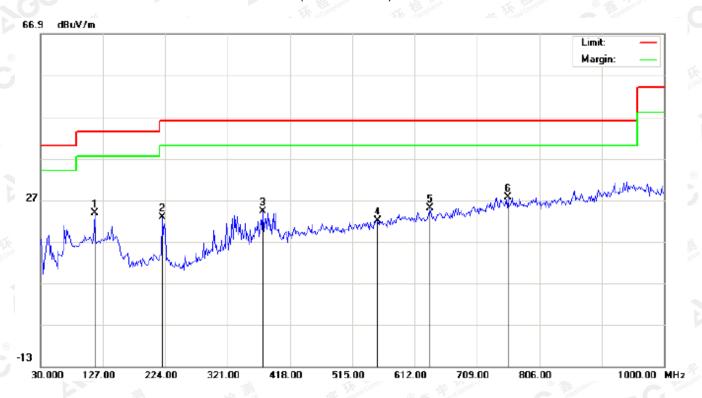
FOR BLE

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	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		114.0667	16.66	7.23	23.89	43.50	-19.61	peak			
2		219.1500	12.67	10.05	22.72	46.00	-23.28	peak			
3		375.9667	5.20	18.91	24.11	46.00	-21.89	peak			
4		553.8000	-0.54	22.58	22.04	46.00	-23.96	peak			
5		636.2500	1.12	23.82	24.94	46.00	-21.06	peak			
6	*	757.5000	0.86	26.73	27.59	46.00	-18.41	peak			

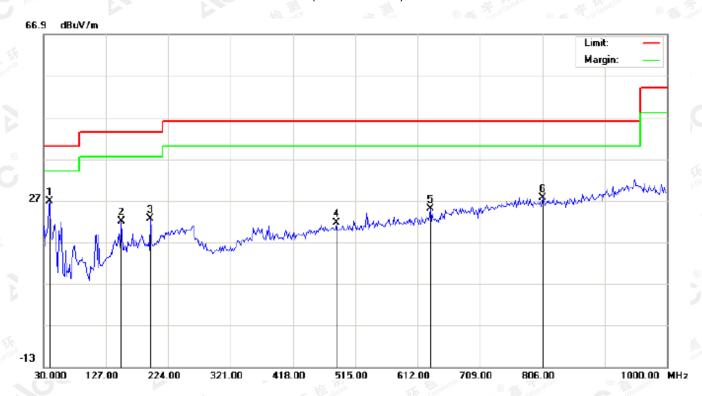
RESULT: PASS

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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	*	39.7000	18.22	8.51	26.73	40.00	-13.27	peak			
2		151.2500	6.81	15.27	22.08	43.50	-21.42	peak			
3		196.5166	12.63	9.88	22.51	43.50	-20.99	peak			
4		485.9000	0.61	20.98	21.59	46.00	-24.41	peak			
5		631.4000	1.62	23.43	25.05	46.00	-20.95	peak			
6		806.0000	0.32	27.32	27.64	46.00	-18.36	peak			

RESULT: PASS

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

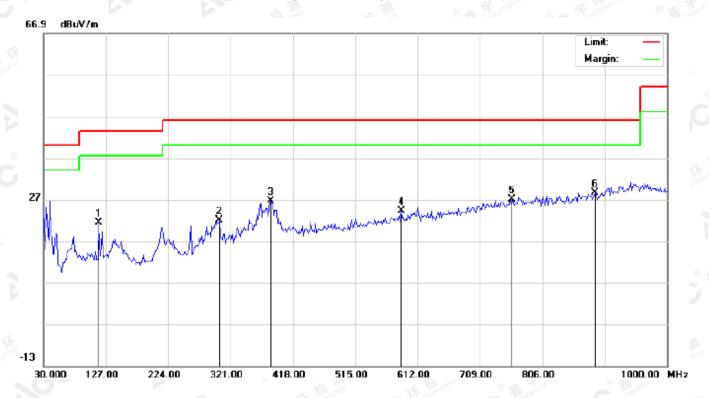
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		115.6833	14.51	6.86	21.37	43.50	-22.13	peak			
2		303.2167	6.46	15.62	22.08	46.00	-23.92	peak			
3		384.0500	7.65	18.96	26.61	46.00	-19.39	peak			
4		586.1333	0.85	23.38	24.23	46.00	-21.77	peak			
5		759.1167	0.18	26.76	26.94	46.00	-19.06	peak			
6	*	888.4500	0.38	28.31	28.69	46.00	-17.31	peak			

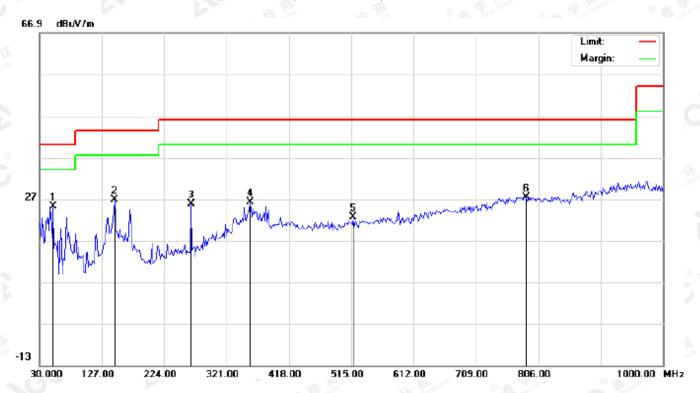
RESULT: PASS

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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
ę.	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	51.0167	16.94	8.23	25.17	40.00	-14.83	peak			
2		146.4000	11.51	15.24	26.75	43.50	-16.75	peak			
3		266.0333	11.52	14.38	25.90	46.00	-20.10	peak			
4		358.1832	7.48	18.79	26.27	46.00	-19.73	peak			
5		518.2333	1.01	21.62	22.63	46.00	-23.37	peak			
6		786.6000	0.21	27.14	27.35	46.00	-18.65	peak			

RESULT: PASS

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

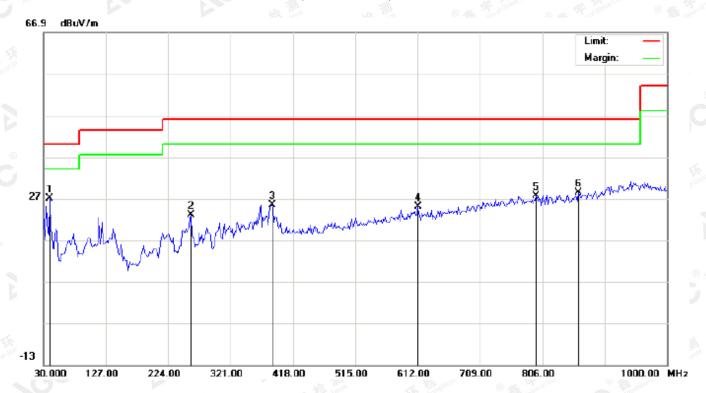
2. The "Factor" value can be calculated automatically by software of measurement system.

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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	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	39.7000	15.57	11.51	27.08	40.00	-12.92	peak			
2		259.5667	14.50	8.53	23.03	46.00	-22.97	peak			
3		385.6667	6.49	18.98	25.47	46.00	-20.53	peak			
4		612.0000	1.25	23.76	25.01	46.00	-20.99	peak			
5		796.3000	0.41	27.27	27.68	46.00	-18.32	peak	·		
6		862.5833	0.70	27.64	28.34	46.00	-17.66	peak			

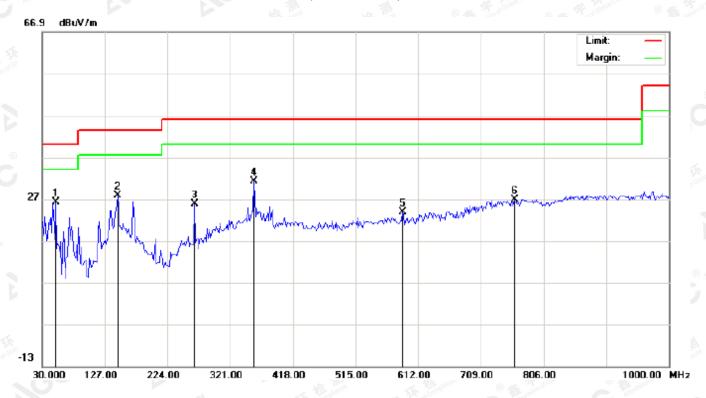
RESULT: PASS

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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
d d	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	51.0167	17.94	8.23	26.17	40.00	-13.83	peak			
2		146.4000	12.51	15.24	27.75	43.50	-15.75	peak			
3		266.0333	11.52	14.38	25.90	46.00	-20.10	peak			
4		358.1832	12.48	18.79	31.27	46.00	-14.73	peak			
5		587.7500	1.04	22.67	23.71	46.00	-22.29	peak			
6		760.7333	0.02	26.78	26.80	46.00	-19.20	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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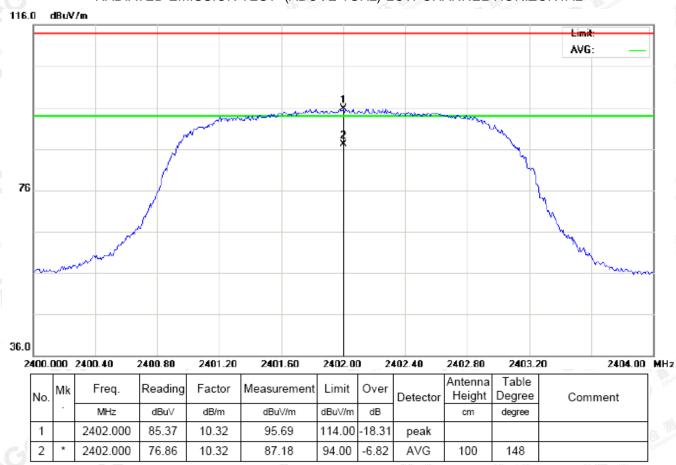
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

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



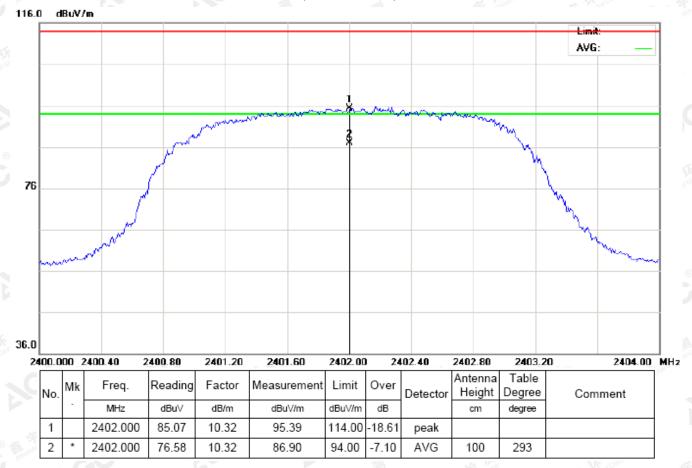
RESULT: PASS

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



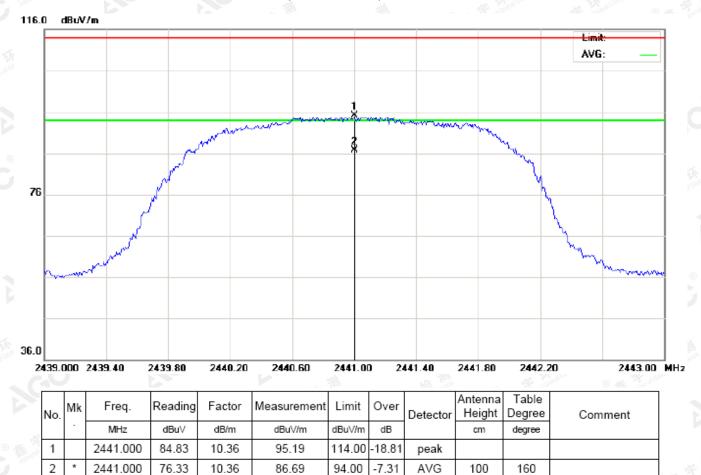
RESULT: PASS

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cert.com.



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



94.00

AVG

100

160

RESULT: PASS

2441.000

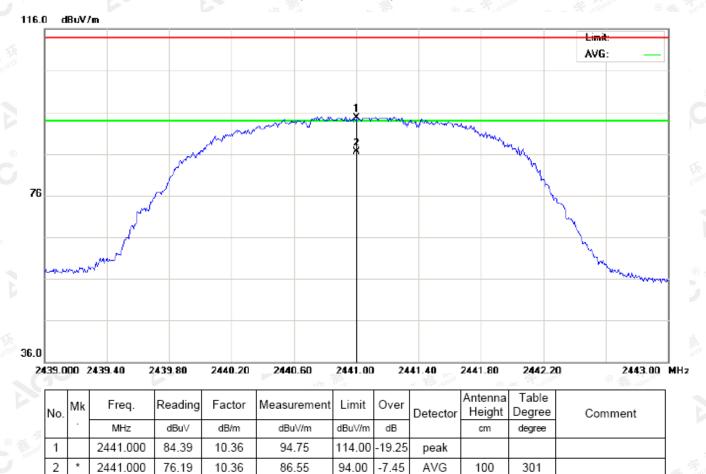
76.33

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



RESULT: PASS

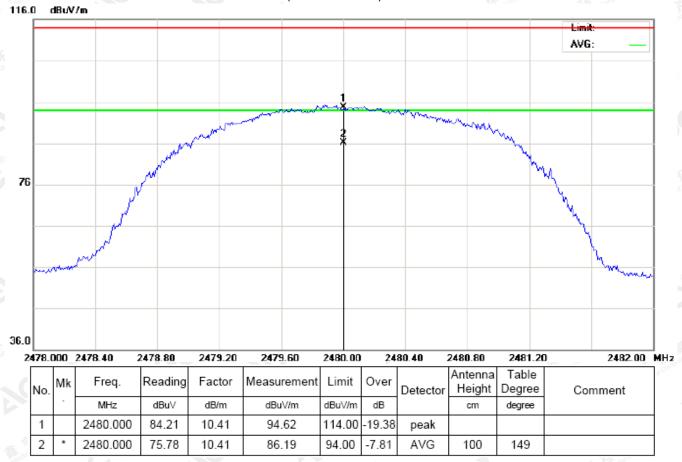
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance



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



RESULT: PASS

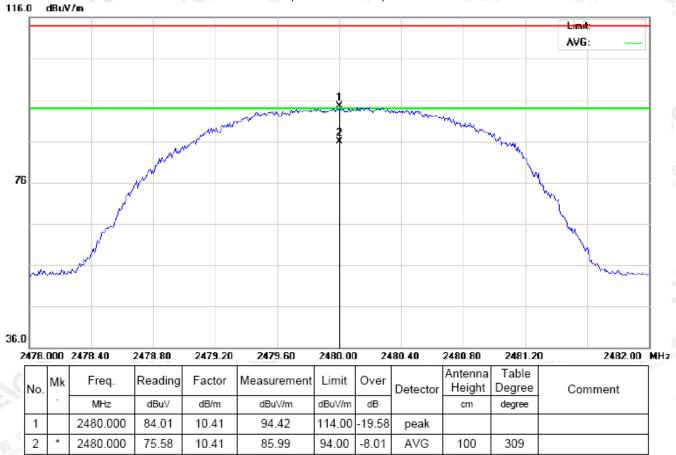
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance



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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.

The results spowfil this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



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Field strength of the fundamental signal 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	85.07	10.32	95.39	114	-18.61	Vertical
2441	84.83	10.36	95.19	114	-18.81	Horizontal
2441	84.39	10.36	94.75	114	-19.25	Vertical
2480	84.21	10.41	94.62	114	-19.38	Horizontal
2480	84.01	10.41	94.42	114	-19.58	Vertical

Average value

,						
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.86	10.32	87.18	94	-6.82	Horizontal
2402	76.58	10.32	86.90	94	-7.10	Vertical
2441	76.33	10.36	86.69	94	-7.31	Horizontal
2441	76.19	10.36	86.55	94	-7.45	Vertical
2480	75.78	10.41	86.19	94	-7.81	Horizontal
2480	75.58	10.41	85.99	94	-8.01	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	84.91	10.32	95.23	114	-18.77	Horizontal	
2402	84.72	10.32	95.04	114	-18.96	Vertical	
2441	84.33	10.36	94.69	114	-19.31	Horizontal	
2441	83.95	10.36	94.31	114	-19.69	Vertical	
2480	83.77	10.41	94.18	114	-19.82	Horizontal	
2480	83.60	10.41	94.01	114	-19.99	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.41	10.32	86.73	94	-7.27	Horizontal	
2402	76.11	10.32	86.43	94	-7.57	Vertical	
2441	75.93	10.36	86.29	94	-7.71	Horizontal	
2441	75.84	10.36	86.20	94	-7.80	Vertical	
2480	75.43	10.41	85.84	94	-8.16	Horizontal	
2480	75.13	10.41	85.54	94	-8.46	Vertical	

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	84.64	10.32	94.96	114	-19.04	Horizontal	
2402	84.29	10.32	94.61	114	-19.39	Vertical	
2441	84.05	10.36	94.41	114	-19.59	Horizontal	
2441	83.87	10.36	94.23	114	-19.77	Vertical	
2480	83.70	10.41	94.11	114	-19.89	Horizontal	
2480	83.46	10.41	93.87	114	-20.13	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	76.42	10.32	86.74	94	-7.26	Horizontal	
2402	76.15	10.32	86.47	94	-7.53	Vertical	
2441	75.87	10.36	86.23	94	-7.77	Horizontal	
2441	75.69	10.36	86.05	94	-7.95	Vertical	
2480	75.44	10.41	85.85	94	-8.15	Horizontal	
2480	75.25	10.41	85.66	94	-8.34	Vertical	

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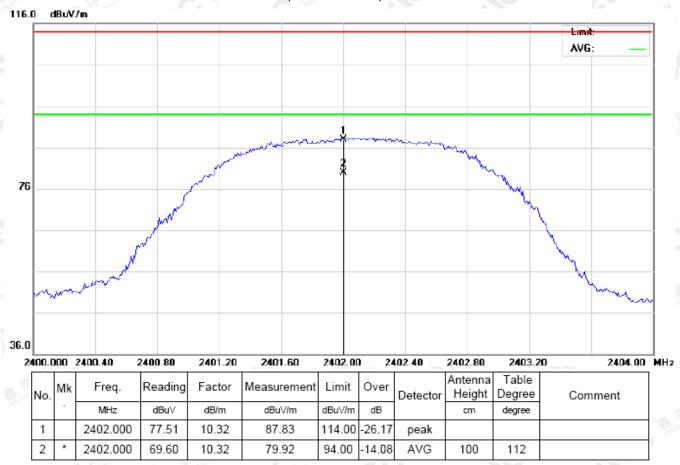


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FOR BLE

For Fundamental

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



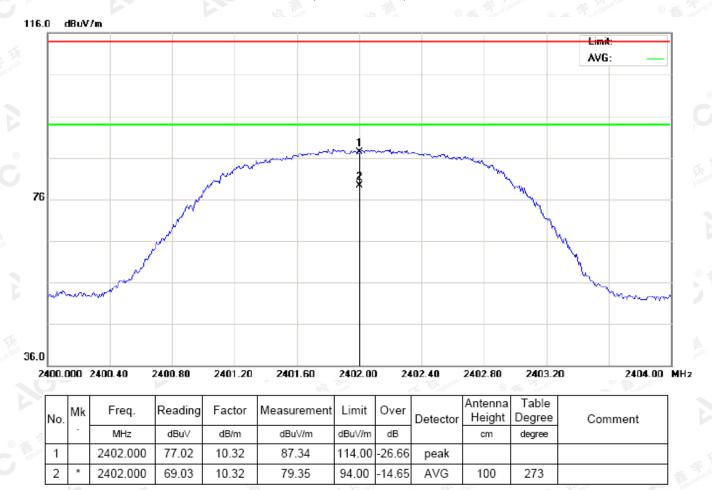
RESULT: PASS

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



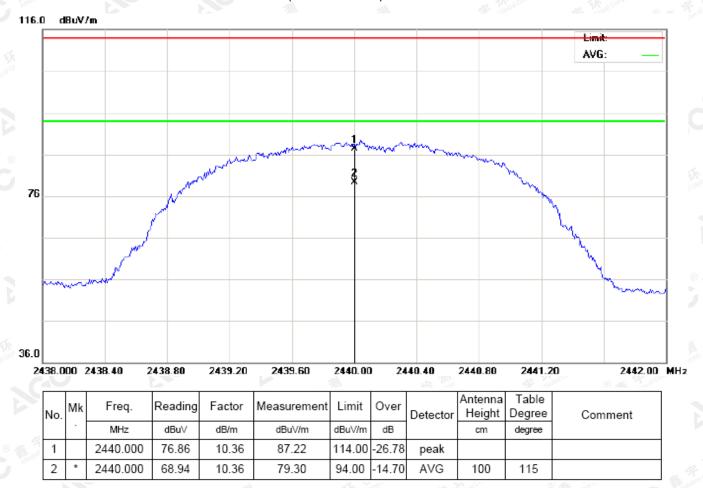
RESULT: PASS

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



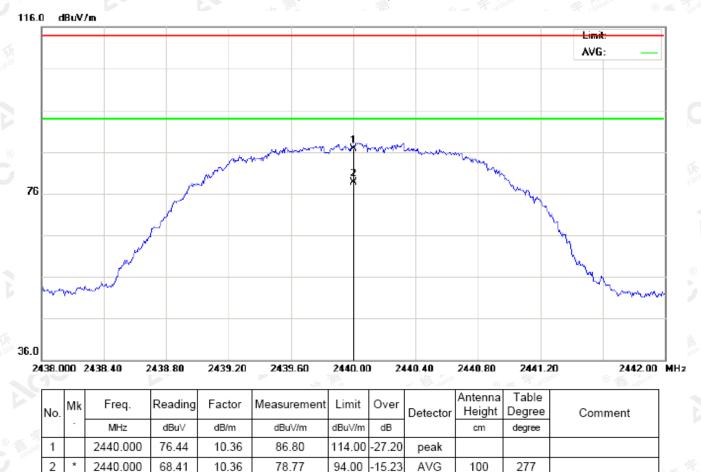
RESULT: PASS

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



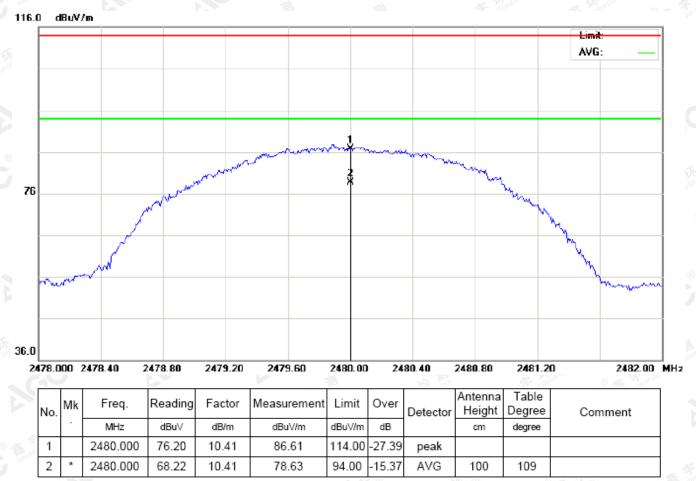
RESULT: PASS

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



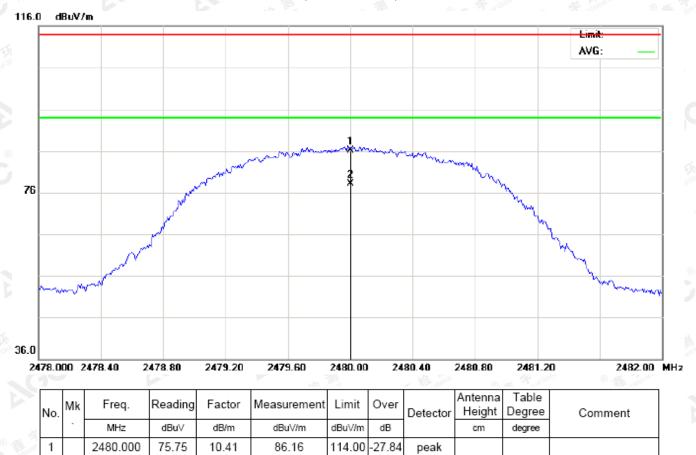
RESULT: PASS

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



RESULT: PASS

2480.000

67.76

10.41

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

78.17

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

94.00

-15.83

AVG

100

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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	77.51	10.32	87.83	114	-26.17	Horizontal	
2402	77.02	10.32	87.34	114	-26.66	Vertical	
2441	76.86	10.36	87.22	114	-26.78	Horizontal	
2441	76.44	10.36	86.80	114	-27.20	Vertical	
2480	76.20	10.41	86.61	114	-27.39	Horizontal	
2480	75.75	10.41	86.16	114	-27.84	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	69.60	10.32	79.92	94	-14.08	Horizontal	
2402	69.03	10.32	79.35	94	-14.65	Vertical Horizontal	
2441	68.94	10.36	79.30	94	-14.70		
2441	68.41	10.36	78.77	94	-15.23	Vertical	
2480	68.22	10.41	78.63	94	-15.37	Horizontal	
2480	67.76	10.41	78.17	94	-15.83	Vertical	

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FOR BR/EDR

(Worst modulation: 8DPSK)

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		2175.000	35.00	10.07	45.07	74.00	-28.93	peak			
2		3575.000	32.70	12.57	45.27	74.00	-28.73	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

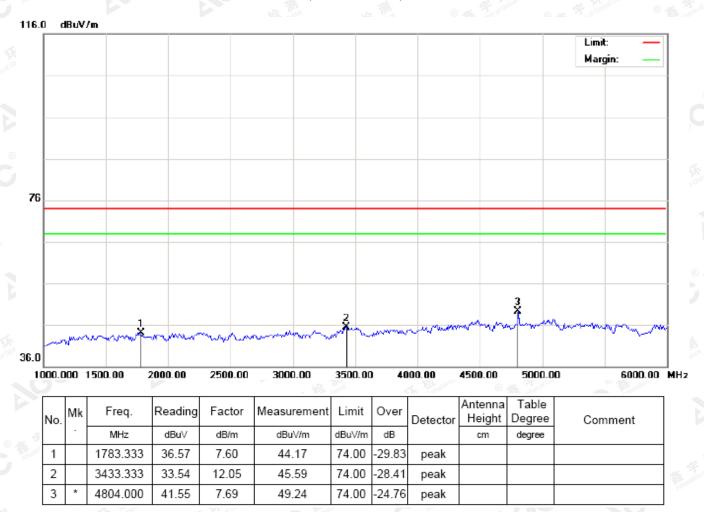
RESULT: PASS

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



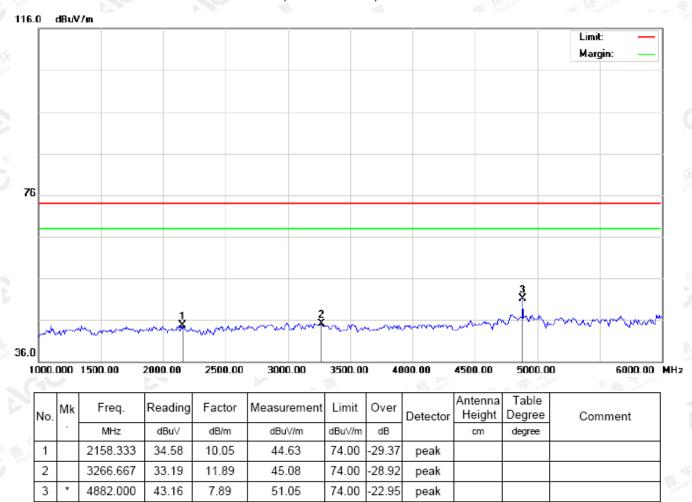
RESULT: PASS

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



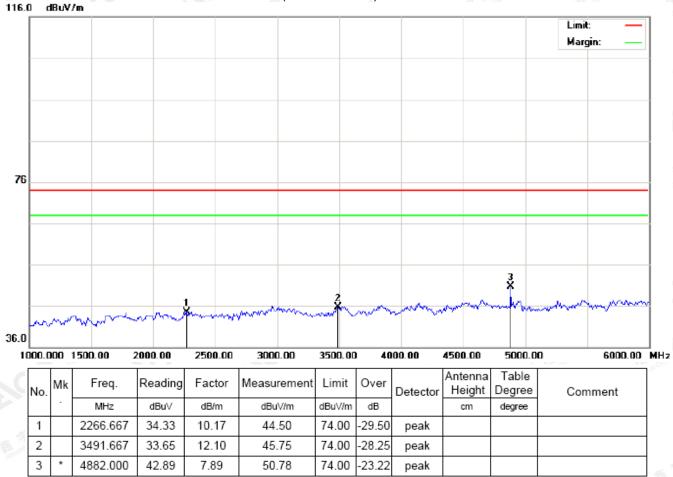
RESULT: PASS

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



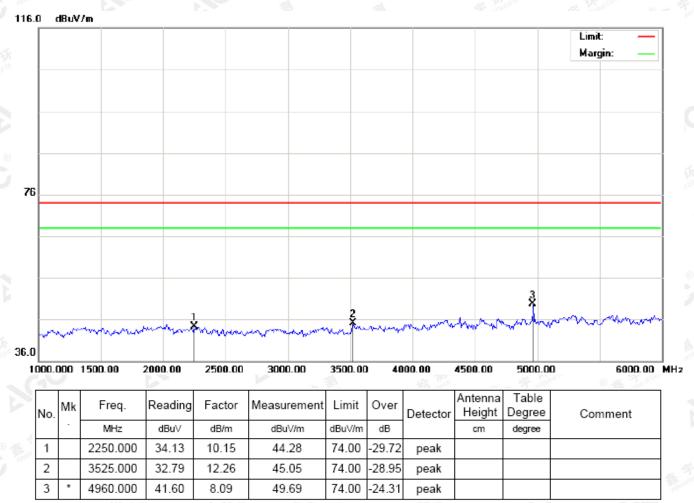
RESULT: PASS

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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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ä		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
stat	1		1858.333	36.57	8.39	44.96	74.00	-29.04	peak			
	2		3525.000	34.02	12.26	46.28	74.00	-27.72	peak			
	3	*	4960.000	43.41	8.09	51.50	74.00	-22.50	peak			

RESULT: PASS

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

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

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

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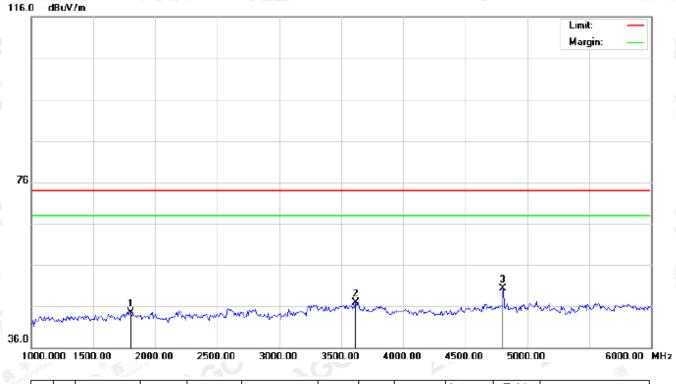


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FOR BLE

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		1800.000	36.79	7.78	44.57	74.00	-29.43	peak			
2		3616.667	34.05	12.83	46.88	74.00	-27.12	peak			
3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

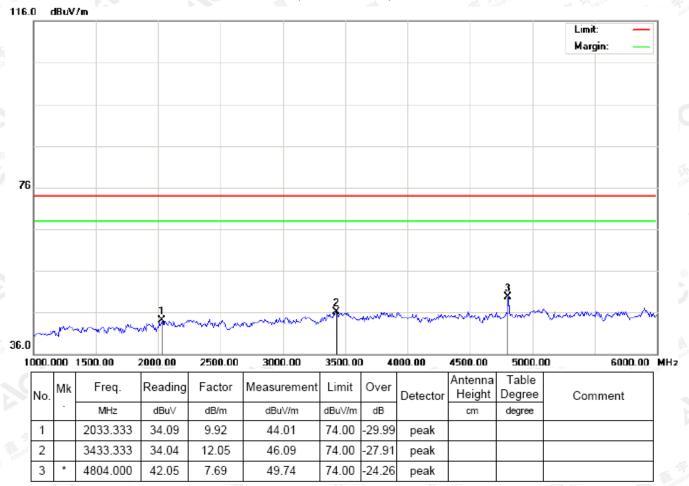
RESULT: PASS

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



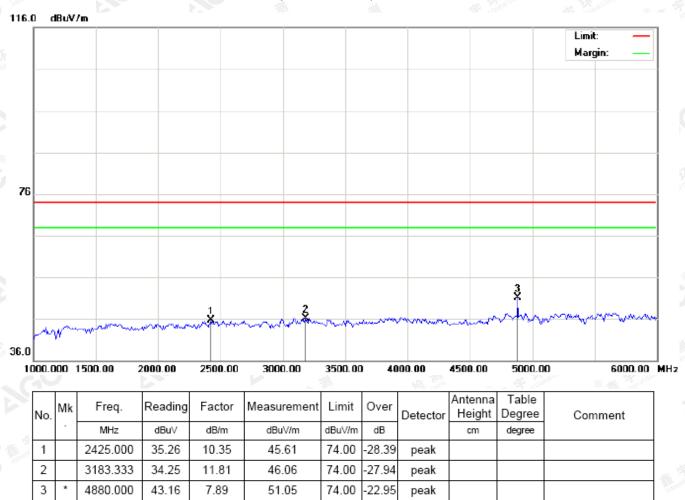
RESULT: PASS

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



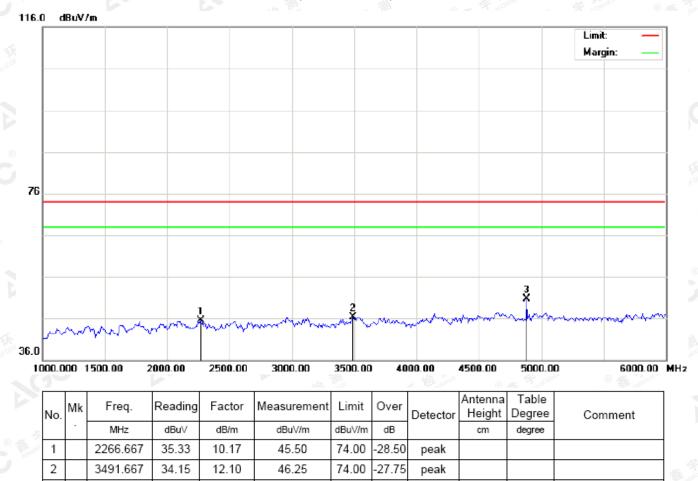
RESULT: PASS

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



74.00

23.2

peak

RESULT: PASS

4880.000

7.89

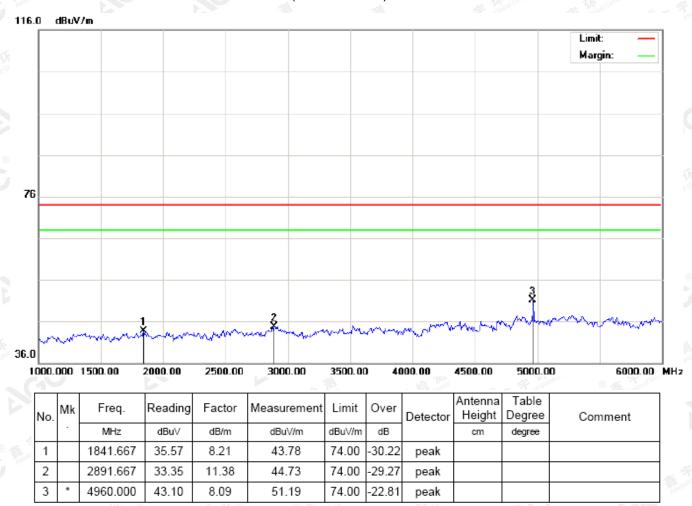
42.89

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



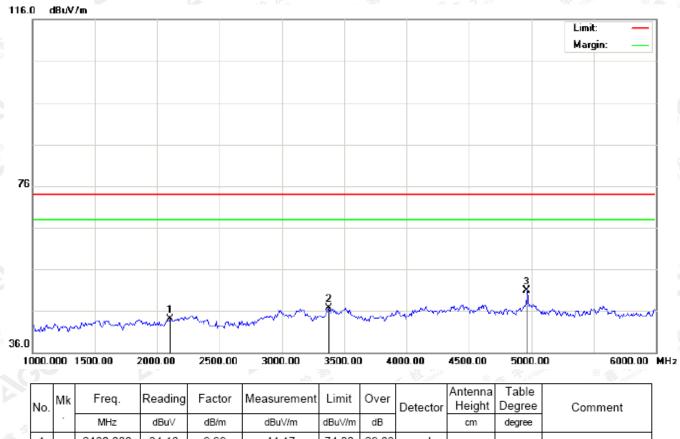
RESULT: PASS

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



1 2100.000 34.18 9.99 44.17 74.00 -29.83 peak 2 3375.000 34.79 11.99 46.78 74.00 -27.22 peak 4960.000 42.91 8.09 51.00 74.00 -23.00peak

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

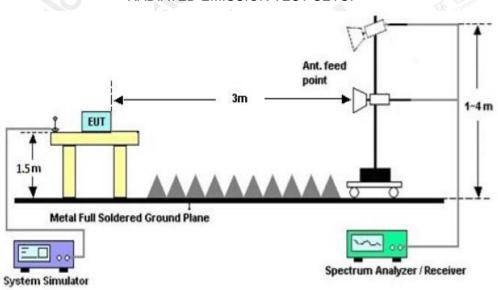
10.1. MEASUREMENT PROCEDURE

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

Start frequency(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

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



N	lo.	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		2373.225	32.17	10.29	42.46	74.00	-31.54	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
	3		2400.000	38.97	10.32	49.29	74.00	-24.71	peak			
	4	*	2402.000	85.42	10.32	95.74	74.00	21.74	peak			
	5	Х	2402.000	76.91	10.32	87.23	74.00	13.23	AVG	100	157	

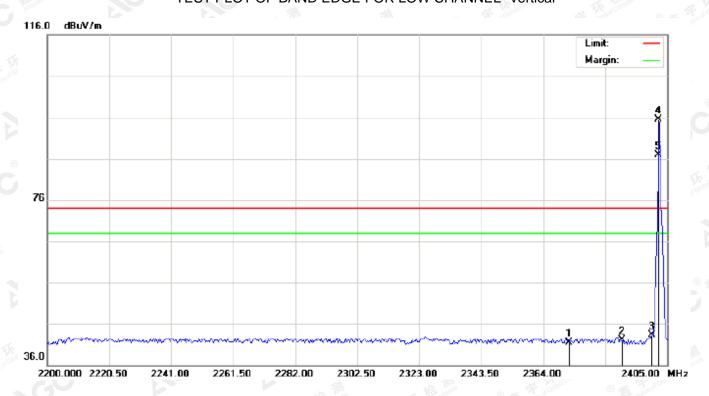
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@ 400 089 2118

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



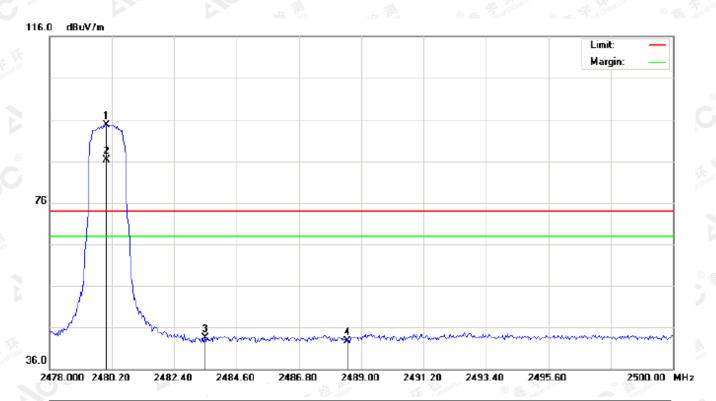
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2372.542	31.28	10.29	41.57	74.00	-32.43	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	33.06	10.32	43.38	74.00	-30.62	peak			
4	*	2402.000	85.14	10.32	95.46	74.00	21.46	peak			
5	Х	2402.000	76.66	10.32	86.98	74.00	12.98	AVG	100	328	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



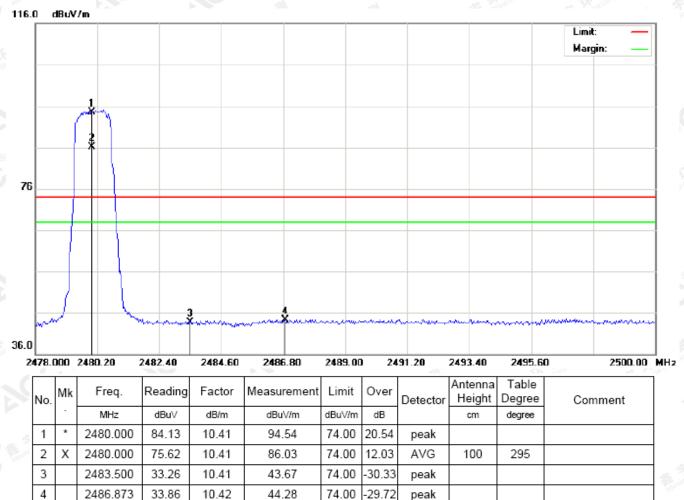
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
a)	1	*	2480.000	84.32	10.41	94.73	74.00	20.73	peak			
	2	Х	2480.000	75.80	10.41	86.21	74.00	12.21	AVG	100	155	
	3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
	4		2488.523	32.24	10.42	42.66	74.00	-31.34	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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FOR BLE

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2324.708	32.28	10.24	42.52	74.00	-31.48	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	40.97	10.32	51.29	74.00	-22.71	peak			
4	*	2402.000	77.72	10.32	88.04	74.00	14.04	peak			
5	Х	2402.000	69.63	10.32	79.95	74.00	5.95	AVG	100	118	

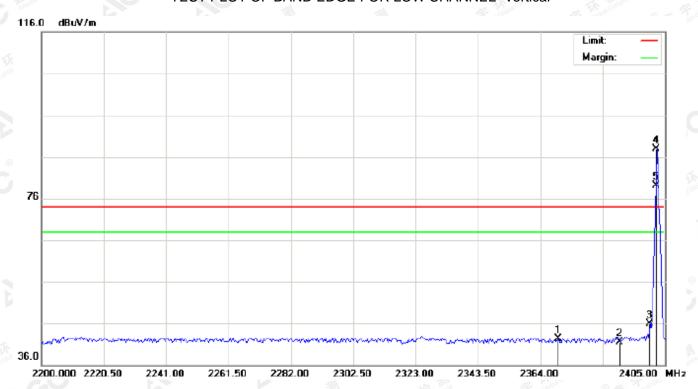
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@ 400 089 2118

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



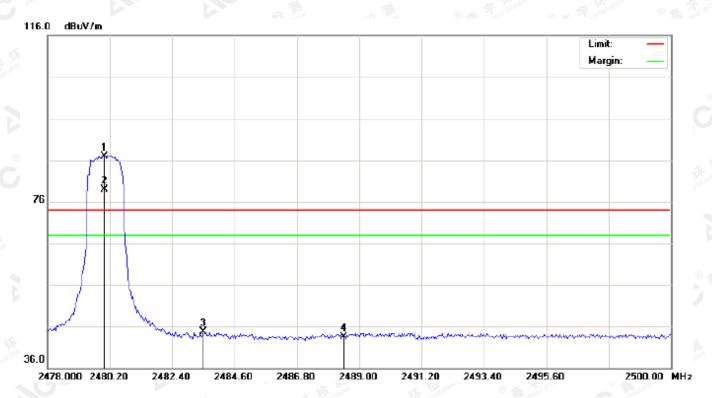
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ă		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
8	1		2369.808	31.93	10.29	42.22	74.00	-31.78	peak			
Γ	2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
Γ	3		2400.000	35.56	10.32	45.88	74.00	-28.12	peak			
Γ	4	*	2402.000	77.59	10.32	87.91	74.00	13.91	peak			
	5	Х	2402.000	68.86	10.32	79.18	74.00	5.18	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
ġ		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
36	1	*	2480.000	76.55	10.41	86.96	74.00	12.96	peak			
	2	Х	2480.000	68.44	10.41	78.85	74.00	4.85	AVG	100	104	
	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2488.450	33.03	10.42	43.45	74.00	-30.55	peak			

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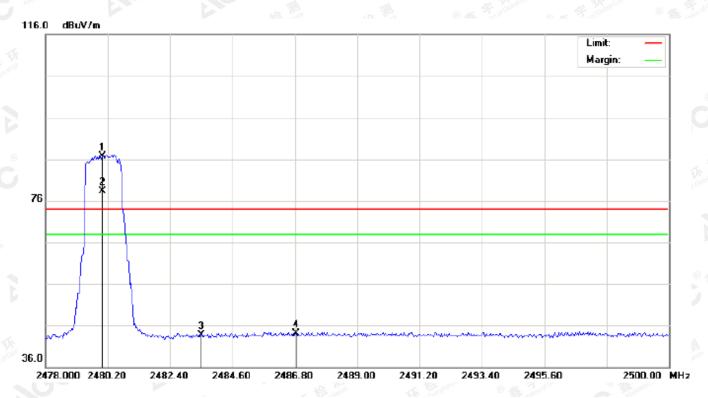
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Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ġ		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
36	1	*	2480.000	76.32	10.41	86.73	74.00	12.73	peak			
	2	Х	2480.000	67.82	10.41	78.23	74.00	4.23	AVG	100	269	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2486.837	33.73	10.42	44.15	74.00	-29.85	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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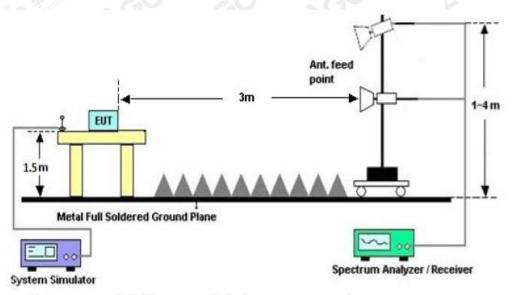
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11. 20DB BANDWIDTH

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	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Test Data (MHz))	Dooult
		99%OBW (MHz)	-20dB BW(MHz)	Result
A common (6) Amendment	Low Channel	0.942	1.071	PASS
N/A	Middle Channel	0.959	1.079	PASS
700	High Channel	0.953	1.095	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

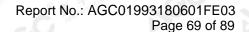


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



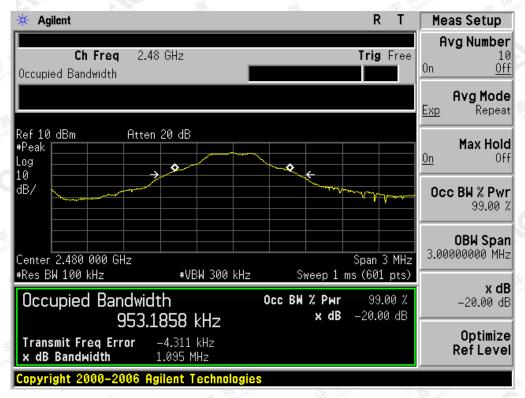
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MGC 2





TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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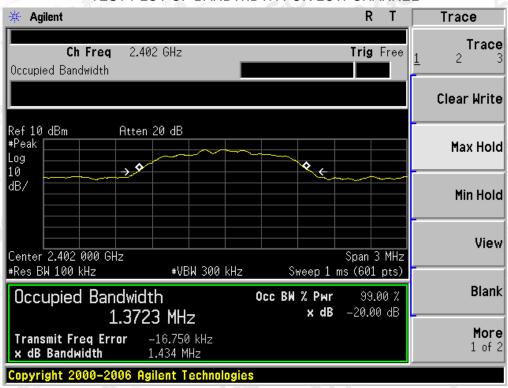
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Test Data (MHz)		Dooult
		99%OBW (MHz)	-20dB BW(MHz)	Result
	Low Channel	1.372	1.434	PASS
N/A	Middle Channel	1.314	1.380	PASS
	High Channel	1.293	1.378	PASS

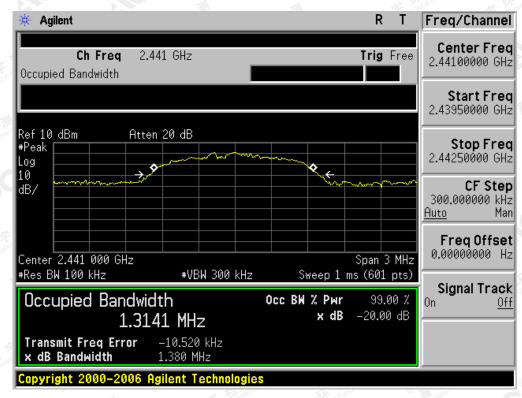
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



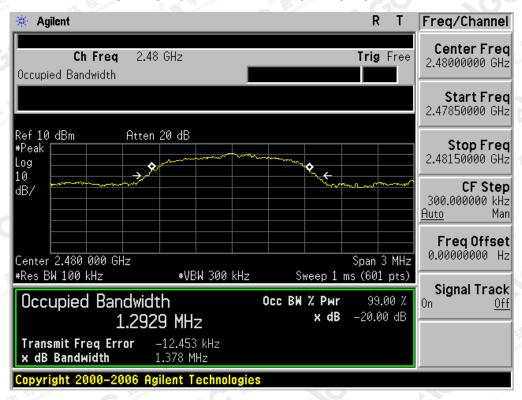
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



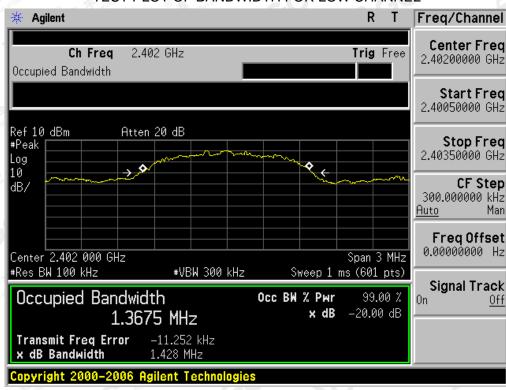
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BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Doguli						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The familiance of the familian	Low Channel	1.368	1.428	PASS				
N/A	Middle Channel	1.314	1.411	PASS				
	High Channel	1.285	1.400	PASS				

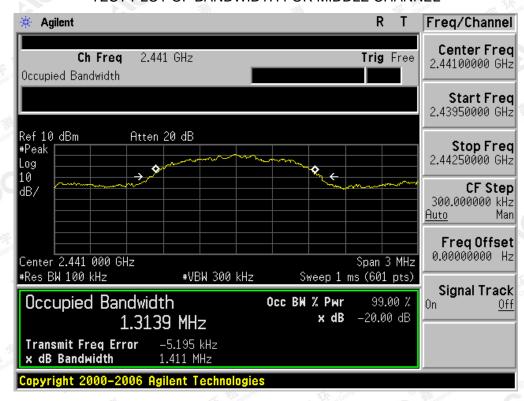
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



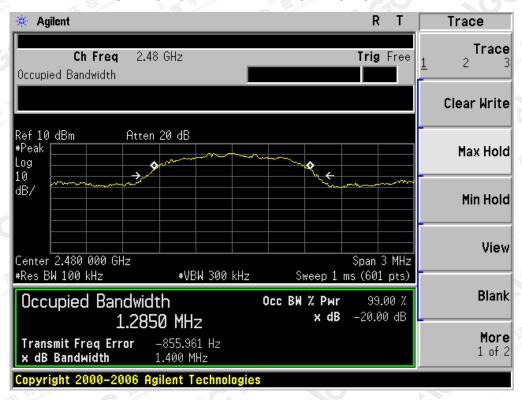
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data (MHz)			Dooult.	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The Scholares IV Britains	Low Channel	1.080	1.279	PASS	
N/A	Middle Channel	1.065	1.255	PASS	
	High Channel	1.070	1.268	PASS	

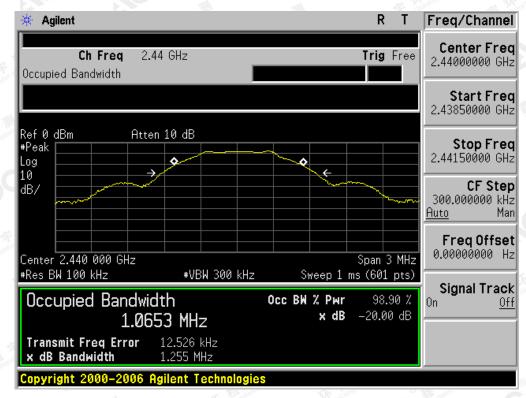
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



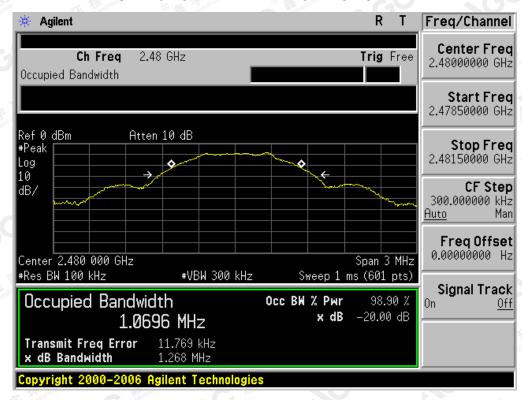
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

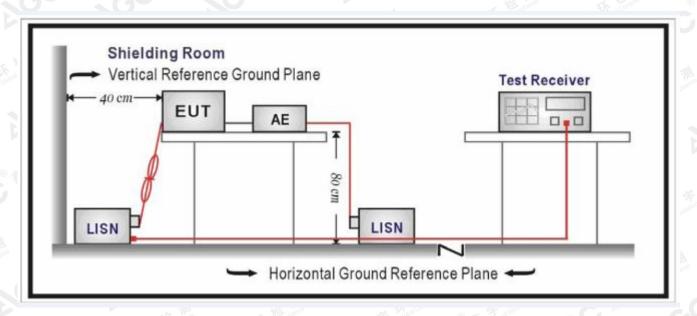
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	© 48 7 10 10 10 10 10 10 10 10 10 10 10 10 10	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

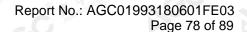
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of two modules is not work when charging.

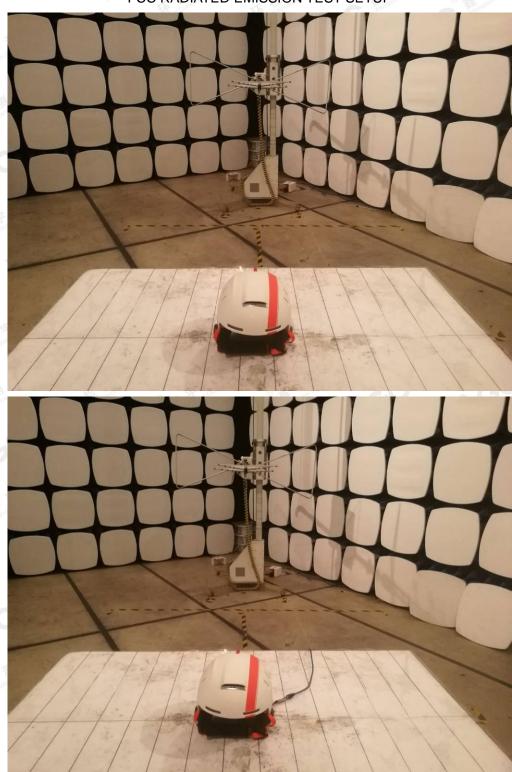
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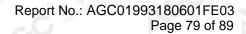
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



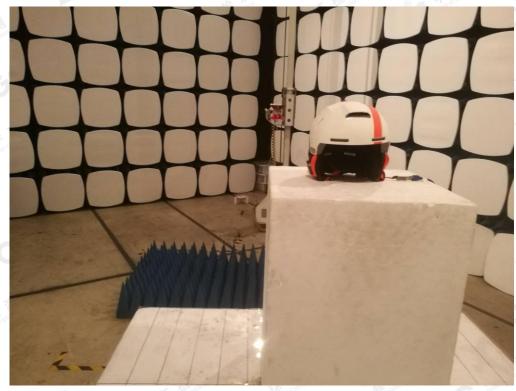
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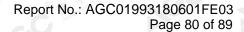








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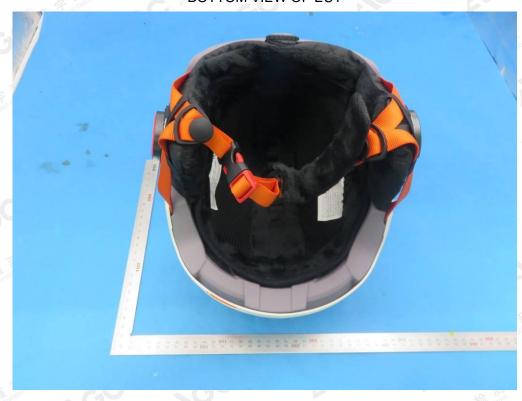


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT-1

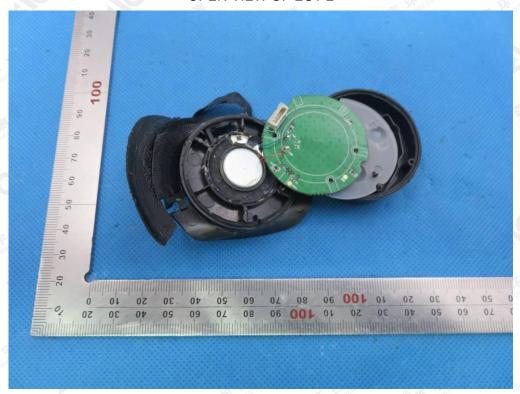


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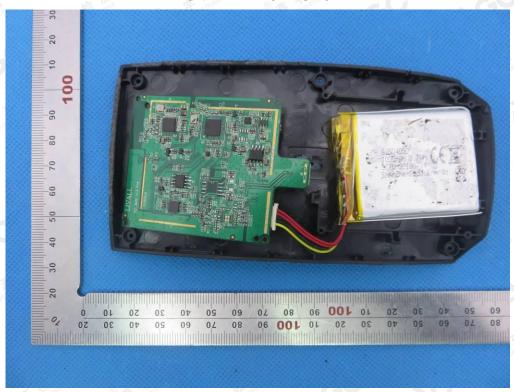
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OPEN VIEW OF EUT-2



OPEN VIEW OF EUT-3



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OPEN VIEW OF EUT-4



VIEW OF BATTERY

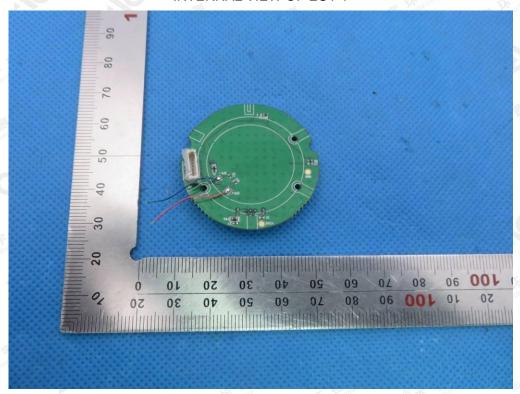


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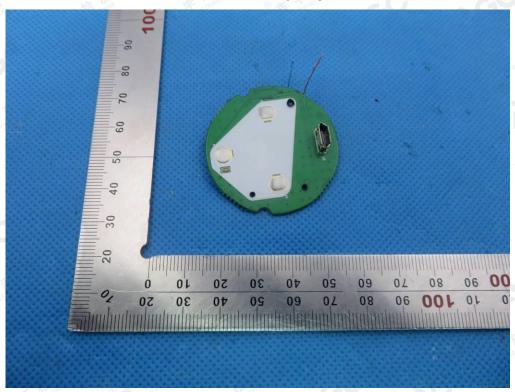
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

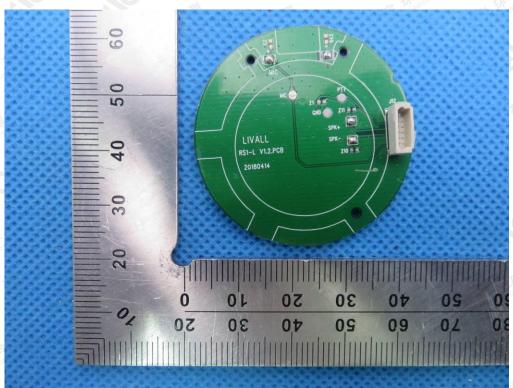


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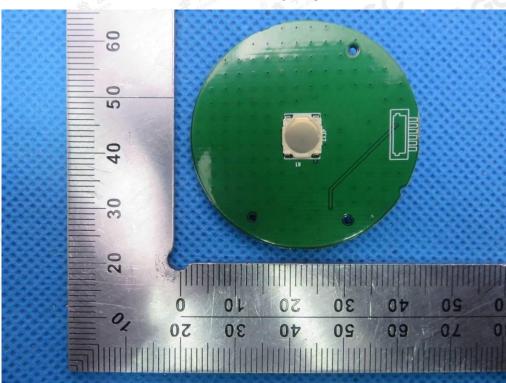
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

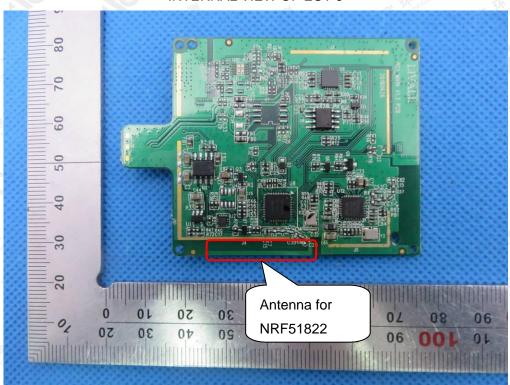


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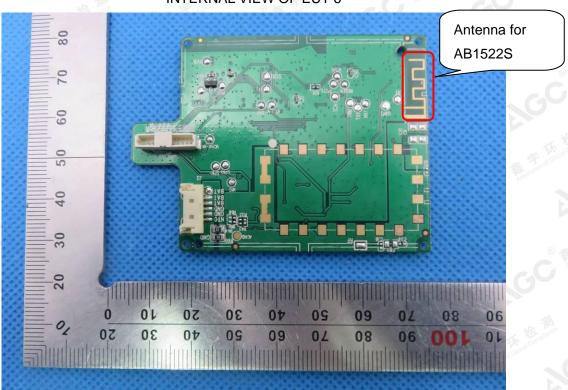
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INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6

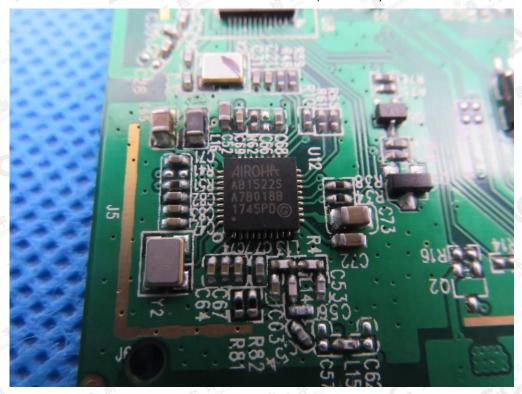


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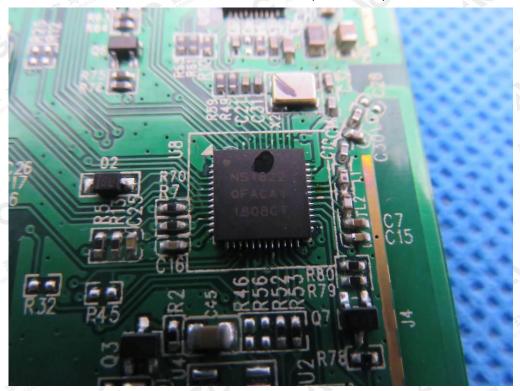
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INTERNAL VIEW OF EUT-7(AB1522S)



INTERNAL VIEW OF EUT-8(NRF51822)



----END OF REPORT----

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