

FCC Test Report

Report No.: AGC00637180603FE03

FCC ID : 2AHYVUNIVMIC

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth Earbuds

BRAND NAME : JLAB

MODEL NAME : JBudsPro BT, FIT SPORT BT

CLIENT: PEAG, LLC dba JLab Audio

DATE OF ISSUE : July 12, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	pliance / ® Maria	July 12, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	PEAG, LLC dba JLab Audio			
Address	2281 Las Palmas Dr, Suite 101, Carlsbad, CA 92011, USA			
Manufacturer	Cosonic Intelligent Technologies Co.,Ltd.			
Address	5th Floor, 1st Building,No.6, South Industry Road, Songshan Lake National High-tech Industrial Development Zone, Dongguan City, Guangdong, China 523808			
Product Designation	Bluetooth Earbuds			
Brand Name	JLAB			
Test Model	JBudsPro BT			
Series Model	FIT SPORT BT			
Difference Description	All the same except for appearance structure			
Date of test	July 04, 2018 to July 11, 2018			
Deviation	None			
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	Honry Zhan	9
Tooled By	Henry Zhang(Zhang Zhuorui)	July 11, 2018
Reviewed By	and change	
® Allestation of Global C	Cool Cheng(Cheng Mengguo)	July 12, 2018
Approved By	Foresto ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	July 12, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

A major technical descript	ion of Eon is described as following
Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	1.63dBi
Power Supply	DC 3.7V by battery
Noto	

The USB port only used for charging and can't be used to transfer data with PC. The BT function of EUT isn't work when charging.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
1 300	0	2402MHz		
The state of the s	The state of the s	2403MHz		
8 See Thorotopia Con 8	CO E CO			
GC TO LOC	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
	40	2442 MHz		
no Good Com	C SO N			
	77	2479 MHz		
	78	2480 MHz		

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

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

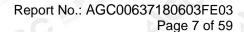
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1 The Manual of the second of	Low channel GFSK			
2 2	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 Th 1000 min	Middle channel π /4-DQPSK			
6	High channel π /4-DQPSK			
7	Low channel 8DPSK			
8	Middle channel 8DPSK			
9 @ Management of Cook	High channel 8DPSK			
10	BT Link(Hopping mode)			

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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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KE.	
EUT	station	Control box	0.00	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

J.Z. EQU	FWICHT OSED IN EUT STST	EIVI GOOD		
Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Earbuds	JLAB	JBudsPro BT	EUT
2	Battery	SUPER POLY	SP75300	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

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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, 2019
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	anion of Guard	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

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(μV)/m				
0.009 ~ 0.490	300	2400/F(kHz)					
0.490 ~ 1.705	30	24000/F(kHz)	电温				
1.705 ~ 30	30	30) Mar Tong Cook Cook				
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 The file and the second	Other:74.0 dB(µV)/m (Average)	n (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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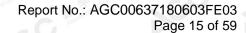


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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

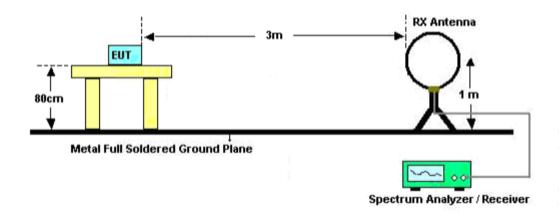
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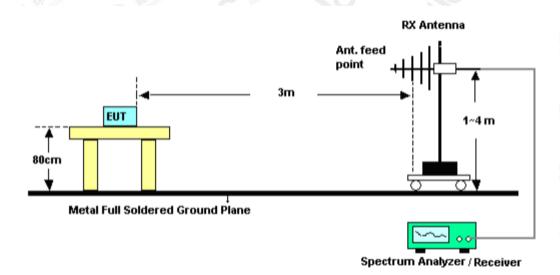


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

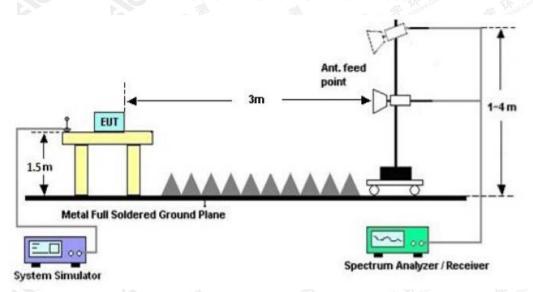


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

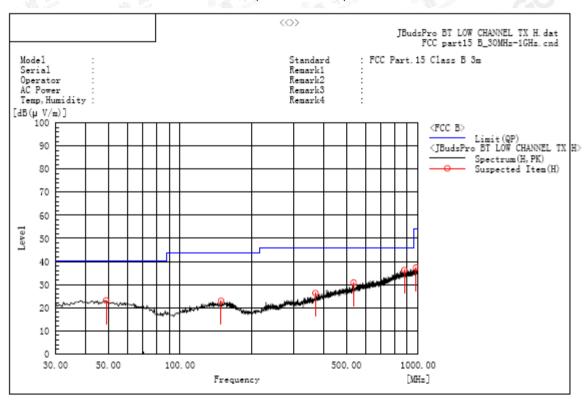
(Worst modulation: 8DPSK)

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



A. Suspected List:

S 3	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	48.915	H	6.0	17.1	23.1	40.0	16.9	Pass	200.0	181.8
	148.825	Н	6.3	16.6	22.9	43.5	20.6	Pass	200.0	145.4
	370.470	Н	6.6	19.7	26.3	46.0	19.7	Pass	200.0	202.6
	536.340	Н	7.3	23.6	30.9	46.0	15.1	Pass	200.0	119.5
	876.325	Н	6.4	29.9	36.3	46.0	9.7	Pass	200.0	74.5
	980.115	Н	6.4	30.9	37.3	54.0	16.7	Pass	100.0	252.0

RESULT: PASS

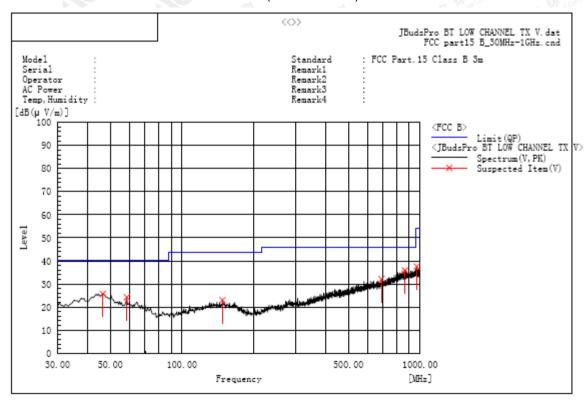
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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



A. Suspected List:

i	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	46.490	V	8.5	17.2	25.7	40.0	14.3	Pass	100.0	342.3
Г	58.615	V	7.8	16.4	24.2	40.0	15.8	Pass	150.0	70.5
Г	147.855	V	6.4	16.6	23.0	43.5	20.5	Pass	150.0	70.5
	689.115	V	5.9	26.2	32.1	46.0	13.9	Pass	100.0	163.8
3	864.685	V	6.1	29.8	35.9	46.0	10.1	Pass	200.0	287.7
	967.990	V	6.8	30.8	37.6	54.0	16.4	Pass	150.0	354.7

RESULT: PASS

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

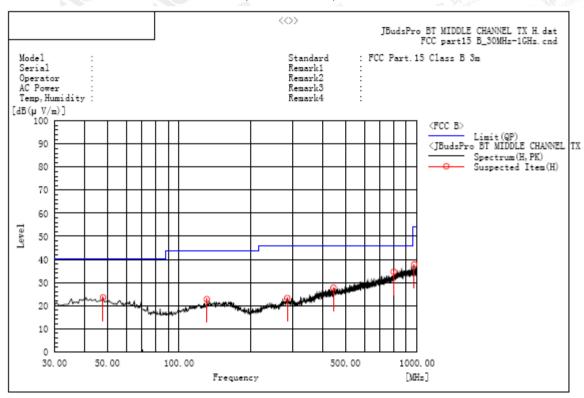
The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
47.945	Н	6.3	17.2	23.5	40.0	16.5	Pass	100.0	264.7
130.880	Н	6.4	16.3	22.7	43.5	20.8	Pass	200.0	325.2
285.110	Н	5.5	17.7	23.2	46.0	22.8	Pass	150.0	2.0
445.645	Н	5.7	22.0	27.7	46.0	18.3	Pass	100.0	340.0
798.240	Н	5.9	28.7	34.6	46.0	11.4	Pass	150.0	146.0
972.355	Н	6.9	30.9	37.8	54.0	16.2	Pass	150.0	255.9

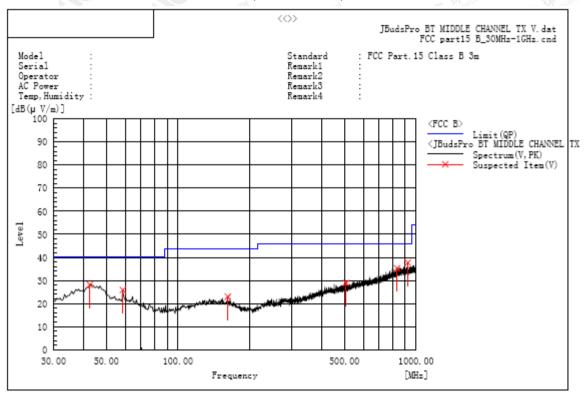
RESULT: PASS

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



A. Suspected List:

Fr	requency MHz			Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	42.610	V	10.8	17.4	28.2	40.0	11.8	Pass	150.0	216.0
	58.615	V	9.5	16.4	25.9	40.0	14.1	Pass	100.0	71.9
	161.920	V	6.4	16.6	23.0	43.5	20.5	Pass	200.0	351.6
	508.210	V	6.0	23.0	29.0	46.0	17.0	Pass	200.0	207.3
	832.190	V	6.0	29.3	35.3	46.0	10.7	Pass	200.0	313.8
	922.400	V	7.3	30.4	37.7	46.0	8.3	Pass	200.0	313.8

RESULT: PASS

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

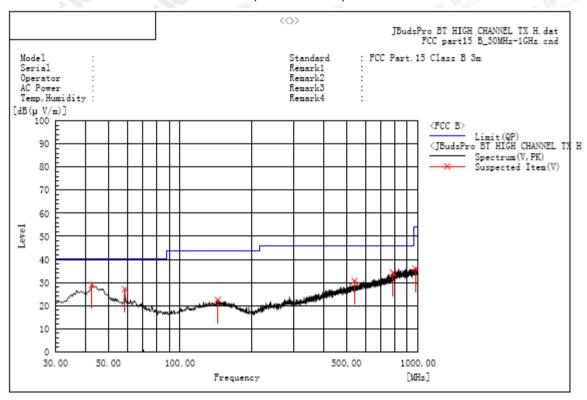
The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

	uency IHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.	.610	H	11.6	17.4	29.0	40.0	11.0	Pass	100.0	182.4
58.	.615	Н	10.6	16.4	27.0	40.0	13.0	Pass	200.0	145.3
143	.975	Н	5.9	16.6	22.5	43.5	21.0	Pass	150.0	326.4
540).705	Н	7.0	23.7	30.7	46.0	15.3	Pass	200.0	325.7
784	1.660	Н	5.9	28.4	34.3	46.0	11.7	Pass	150.0	72.2
974	1.780	Н	5.2	30.9	36.1	54.0	17.9	Pass	150.0	326.4

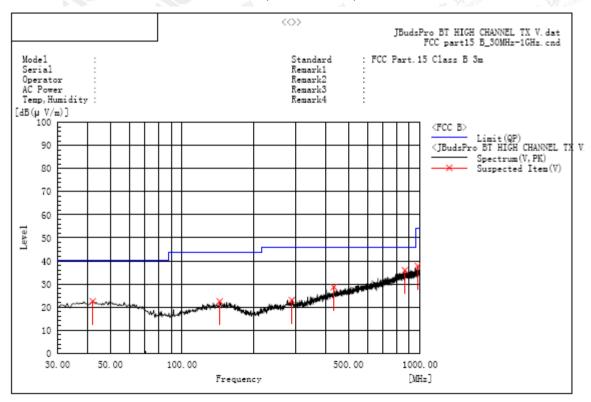
RESULT: PASS

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



A. Suspected List:

	Frequency MHz	y Polarization Reading dB(uV)		Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	42.125	V	5.1	17.4	22.5	40.0	17.5	Pass	200.0	271.8
	143.975	V	5.9	16.6	22.5	43.5	21.0	Pass	200.0	271.8
	288.990	v	5.4	17.6	23.0	46.0	23.0	Pass	200.0	271.8
	434.005	V	6.9	21.8	28.7	46.0	17.3	Pass	200.0	268.9
3	863.715	v	6.1	29.8	35.9	46.0	10.1	Pass	100.0	144.3
	977.205	v	6.9	30.9	37.8	54.0	16.2	Pass	200.0	196.7

RESULT: PASS

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

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

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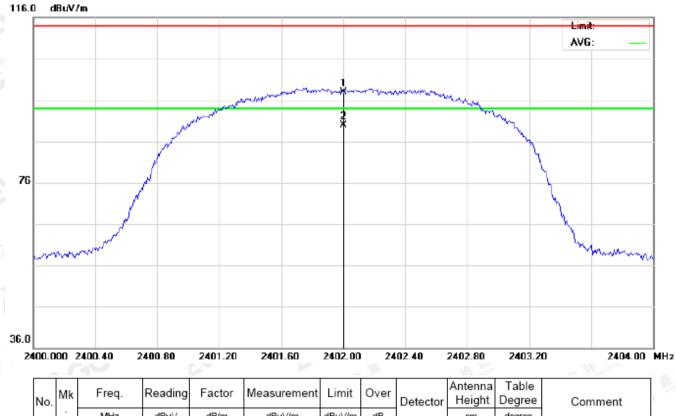
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: 8DPSK)

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	87.61	10.32	97.93	114.00	-16.07	peak			
2	*	2402.000	79.65	10.32	89.97	94.00	-4.03	AVG	100	136	

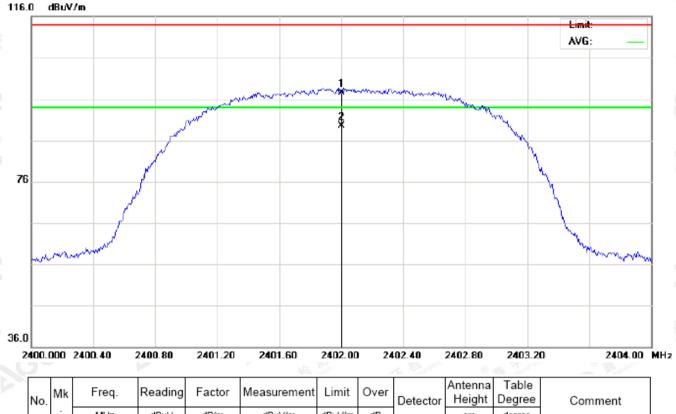
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	87.18	10.32	97.50	114.00	-16.50	peak			
2	*	2402.000	79.19	10.32	89.51	94.00	-4.49	AVG	100	315	

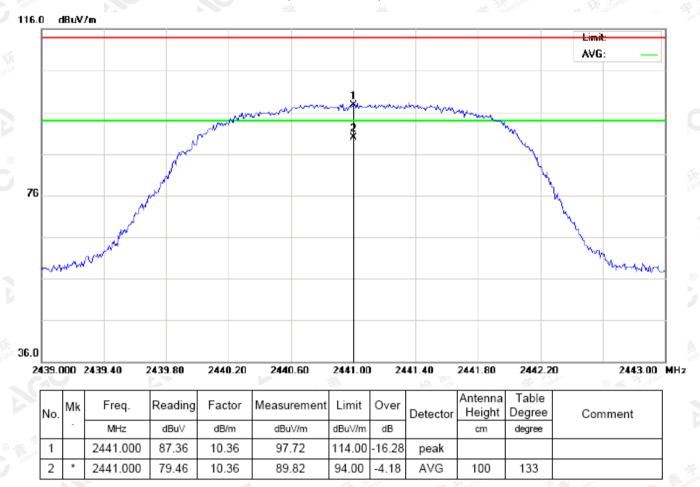
RESULT: PASS

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



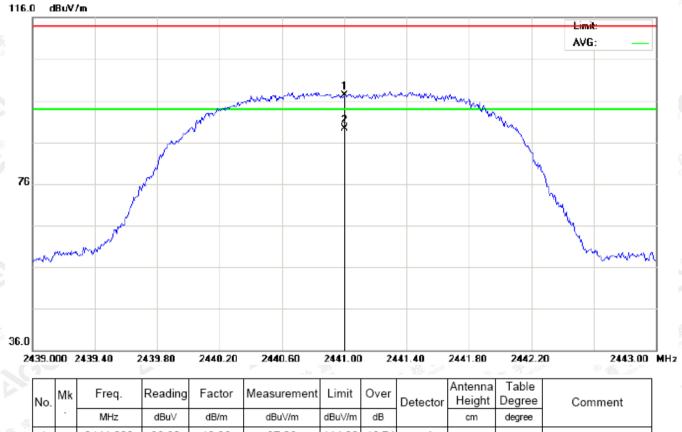
RESULT: PASS

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



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	86.90	10.36	97.26	114.00	-16.74	peak			
2	*	2441.000	78.92	10.36	89.28	94.00	-4.72	AVG	100	318	

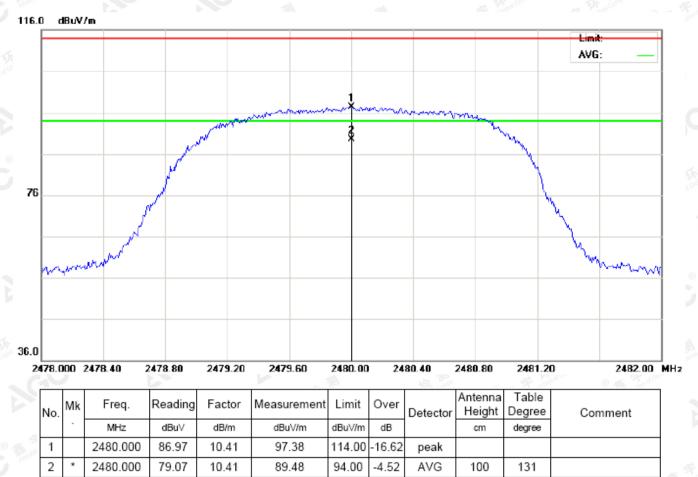
RESULT: PASS

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



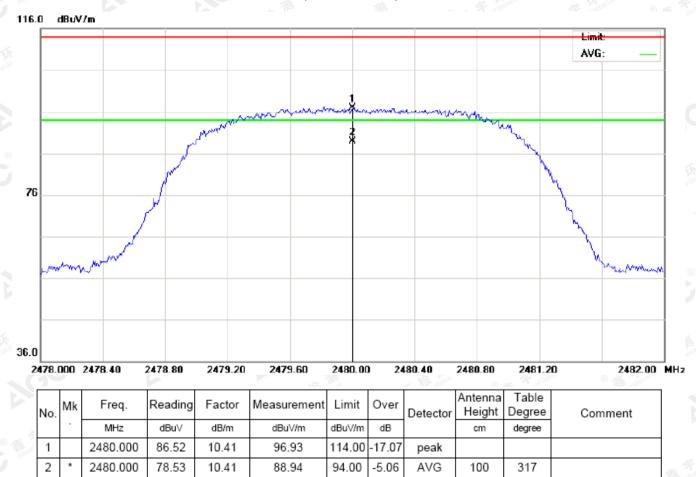
RESULT: PASS

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



RESULT: PASS

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

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

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-16.74

-16.62

-17.07

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Vertical

Horizontal

Vertical

Field strength of the fundamental signal

86.90

86.97

86.52

10.36

10.41

10.41

3Mbps Result:

Peak value

3	Frequency	uency Reading F		Factor Measurement		Over	Antenna	
	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
ľ	2402	87.61	10.32	97.93	114	-16.07	Horizontal	
1009	2402	87.18	10.32	97.50	114	-16.50	Vertical	
T	2441	87 36	10.36	97 72	114	-16 28	Horizontal	

97.26

97.38

96.93

114

114

114

Average value

2441 2480

2480

			Min 200	. Glo	(B) Ale and			
Frequency Reading Level		Factor	Measurement	Limit	Over	Antenna		
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization		
2402	79.65	10.32	89.97	94	-4.03	Horizontal		
2402	79.19	10.32	89.51	94	-4.49	Vertical		
2441	79.46	10.36	89.82	94	-4.18	Horizontal		
2441	78.92	10.36	89.28	94	-4.72	Vertical		
2480	79.07	10.41	89.48	94	-4.52	Horizontal		
2480	78.53	10.41	88.94	94	-5.06	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	87.21	10.32	97.53	114	-16.47	Horizontal
2402	86.77	10.32	97.09	114	-16.91	Vertical
2441	86.91	10.36	97.27	114	-16.73	Horizontal
2441	86.43	10.36	96.79	114	-17.21	Vertical
2480	86.53	10.41	96.94	114	-17.06	Horizontal
2480	86.12	10.41	96.53	114	-17.47	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.24	10.32	89.56	94	-4.44	Horizontal
2402	78.71	10.32	89.03	94	-4.97	Vertical
2441	79.03	10.36	89.39	94	-4.61	Horizontal
2441	78.50	10.36	88.86	94	-5.14	Vertical
2480	78.60	10.41	89.01	94	-4.99	Horizontal
2480	78.06	10.41	88.47	94	-5.53	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.81	10.32	97.13	114	-16.87	Horizontal
2402	86.29	10.32	96.61	114	-17.39	Vertical
2441	86.47	10.36	96.83	114	-17.17	Horizontal
2441	85.96	10.36	96.32	114	-17.68	Vertical
2480	86.12	10.41	96.53	114	-17.47	Horizontal
2480	85.71	10.41	96.12	114	-17.88	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.74	10.32	89.06	94	-4.94	Horizontal
2402	78.26	10.32	88.58	94	-5.42	Vertical
2441	78.59	10.36	88.95	94	-5.05	Horizontal
2441	78.10	10.36	88.46	94	-5.54	Vertical
2480	78.15	10.41	88.56	94	-5.44	Horizontal
2480	77.57	10.41	87.98	94	-6.02	Vertical

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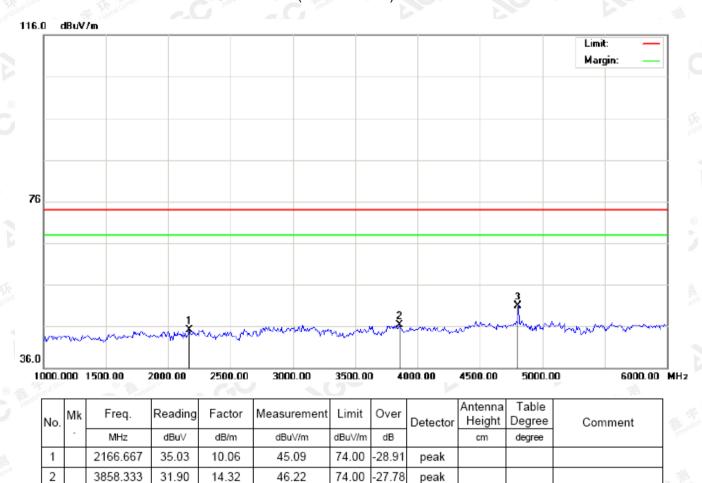


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(Worst modulation: 8DPSK)

For Harmonics

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



RESULT: PASS

4804.000

43.21

7.69

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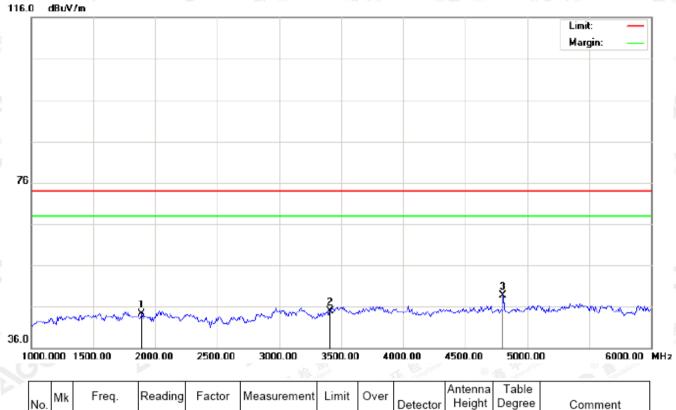
Attestation of Global Compliance

peak



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



N	ю.	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	
al	1		1891.667	35.51	8.74	44.25	74.00	-29.75	peak			
Γ	2		3408.333	32.92	12.02	44.94	74.00	-29.06	peak			
	3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

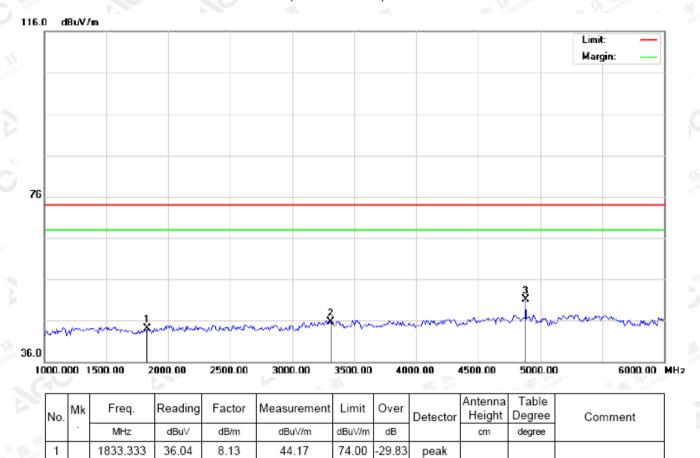
RESULT: PASS

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



74.00

74.00

-28.35

-22.95

peak

peak

RESULT: PASS

2

3308.333

4882.000

11.93

7.89

45.65

51.05

33.72

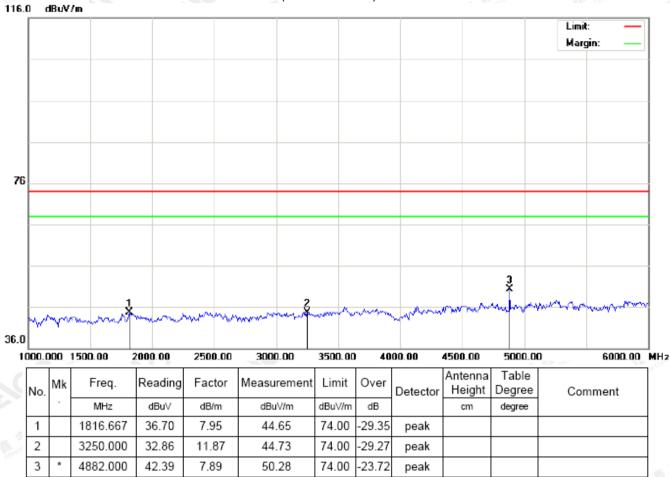
43.16

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



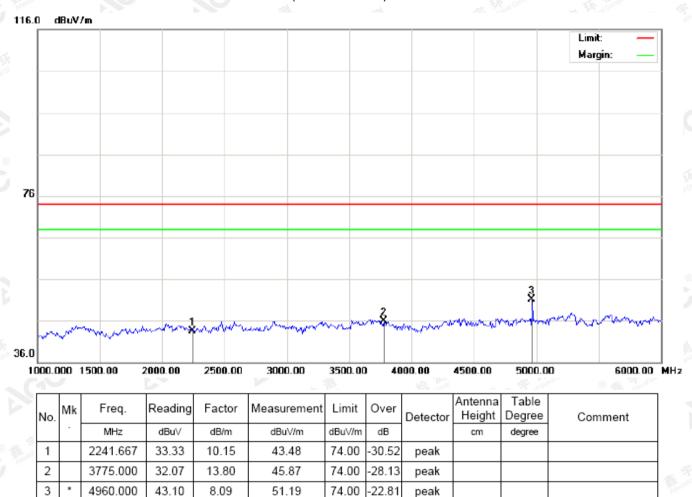
RESULT: PASS

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



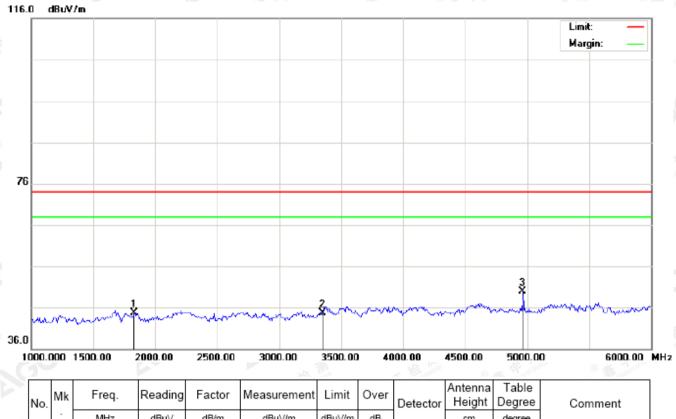
RESULT: PASS

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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
ă	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1833.333	36.66	8.13	44.79	74.00	-29.21	peak			
2		3350.000	32.66	11.97	44.63	74.00	-29.37	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	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

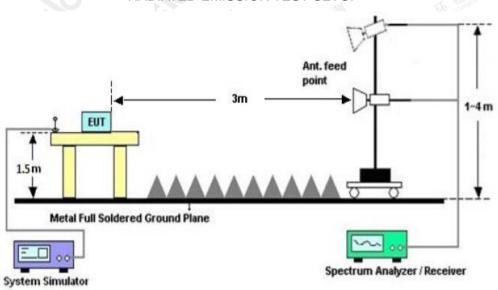
10.1. MEASUREMENT PROCEDURE

- 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)				
下	2200	Kindlance	The Manual of	· · · · · · · · · · · · · · · · · · ·	2405	-CO		
® ## data of Global	2478	3lopal C	Attestation of Glob	CO "	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



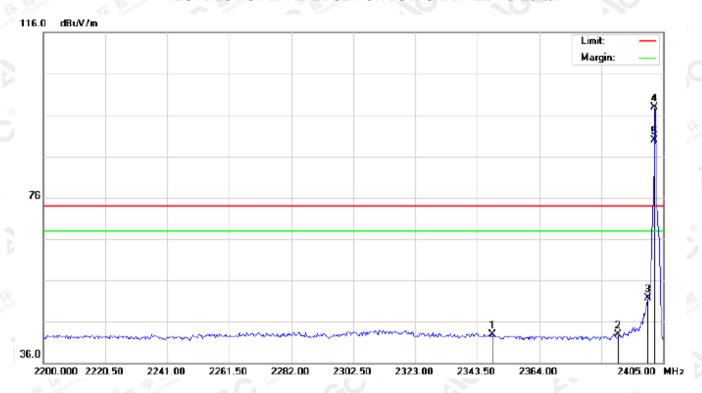


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10.3 RADIATED TEST RESULT

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



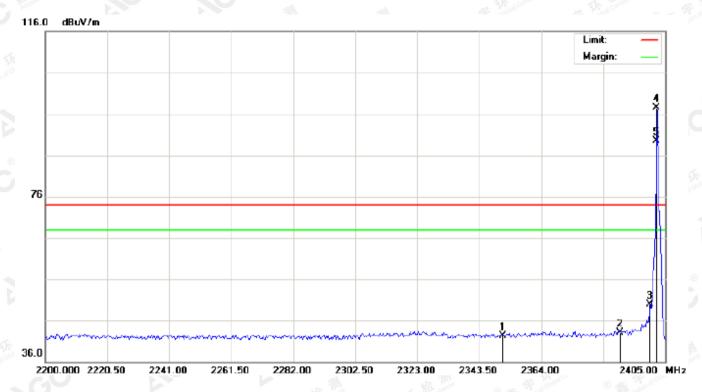
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2348.625	32.65	10.26	42.91	74.00	-31.09	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4	*	2402.000	87.55	10.32	97.87	74.00	23.87	peak		·	
5	Х	2402.000	79.59	10.32	89.91	74.00	15.91	AVG	100	136	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



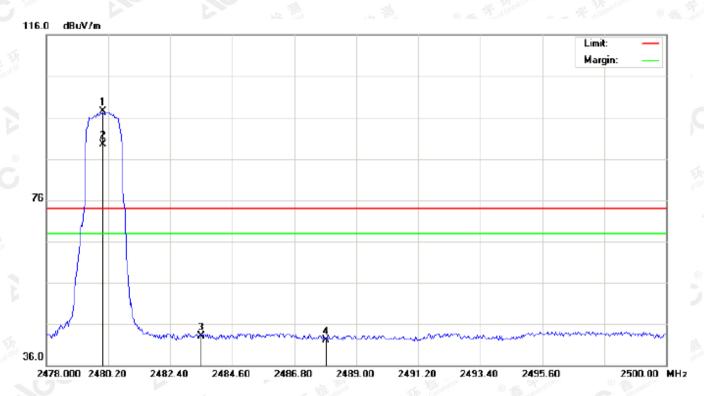
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2351.358	31.98	10.27	42.25	74.00	-31.75	peak			
2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3		2400.000	39.56	10.32	49.88	74.00	-24.12	peak			
4	*	2402.000	87.13	10.32	97.45	74.00	23.45	peak			
5	Х	2402.000	79.12	10.32	89.44	74.00	15.44	AVG	100	310	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



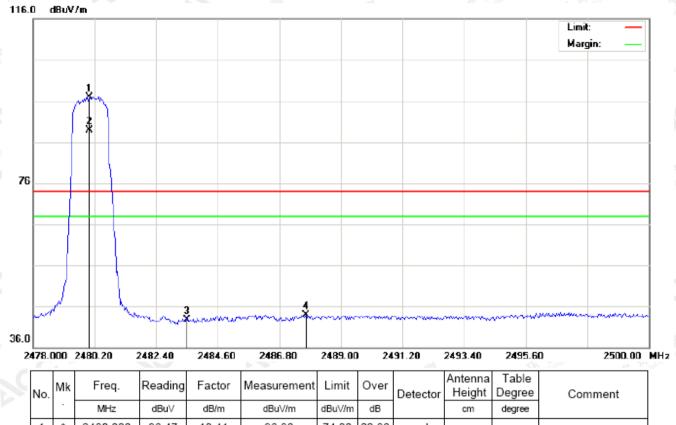
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ğ		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
0	1	*	2480.000	87.02	10.41	97.43	74.00	23.43	peak			
	2	Х	2480.000	79.03	10.41	89.44	74.00	15.44	AVG	100	138	
	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2487.937	31.73	10.42	42.15	74.00	-31.85	peak		·	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



2480.000 86.47 10.41 96.88 74.00 22.88 peak 2480.000 74.00 14.89 2 78.48 10.41 88.89 AVG 100 314 2483.500 32.26 10.41 42.67 74.00 -31.33 peak 2487.753 33.45 10.42 43.87 74.00 -30.13 peak

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.



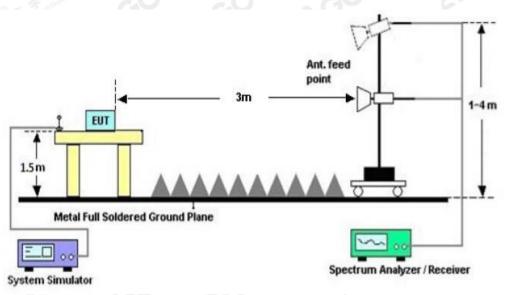
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11, 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

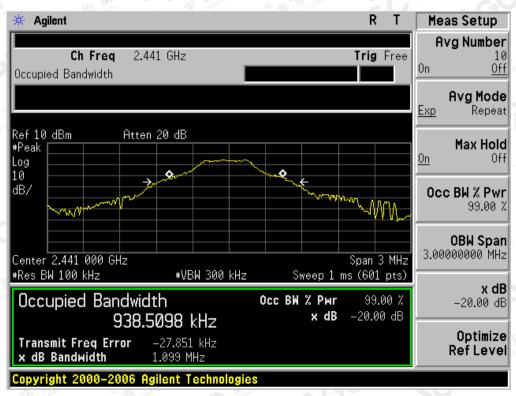
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		D K								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
the state of the s	Low Channel	0.949	1.088	PASS						
N/A	Middle Channel	0.939	1.099	PASS						
100	High Channel	0.943	1.081	PASS						



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



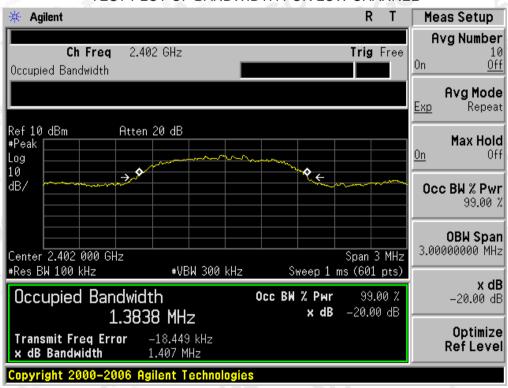
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
		Measurement Result							
Applicable Limits		5 "							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
下格型 下格型	Low Channel	1.384	1.407	PASS					
N/A	Middle Channel	1.320	1.404	PASS					
SGC III	High Channel	1.275	1.400	PASS					

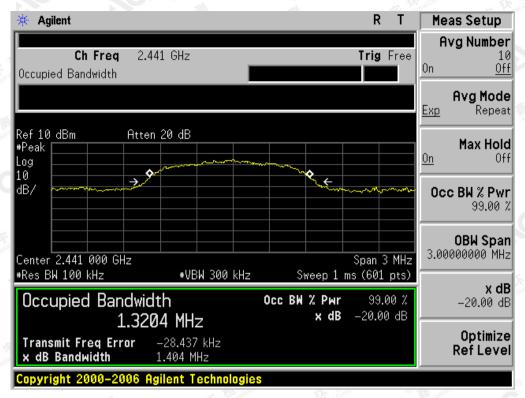
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



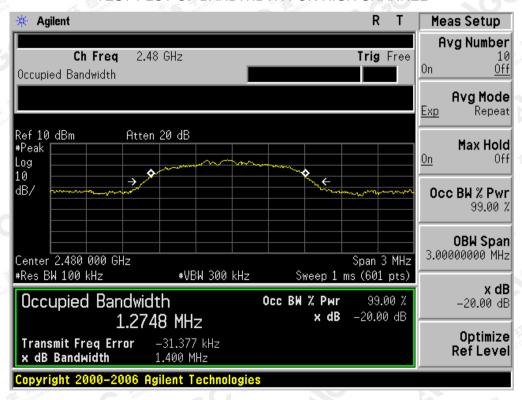
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

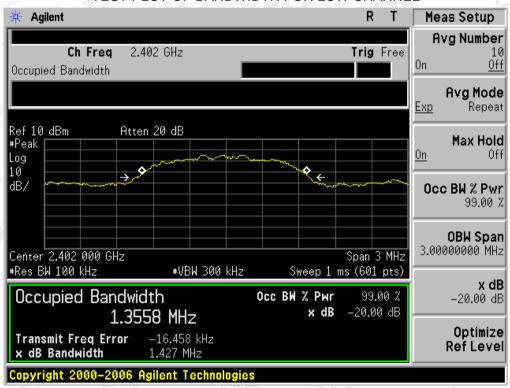




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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT										
		Measurement Result								
Applicable Limits		Result								
TO THE	Low Channel	1.356	1.427	PASS						
N/A	Middle Channel	1.309	1.404	PASS						
	High Channel	1.274	1.391	PASS						

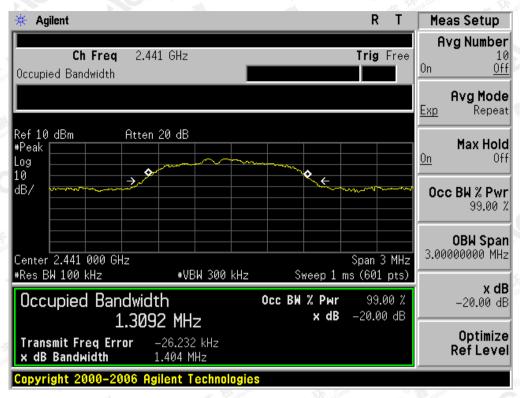
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



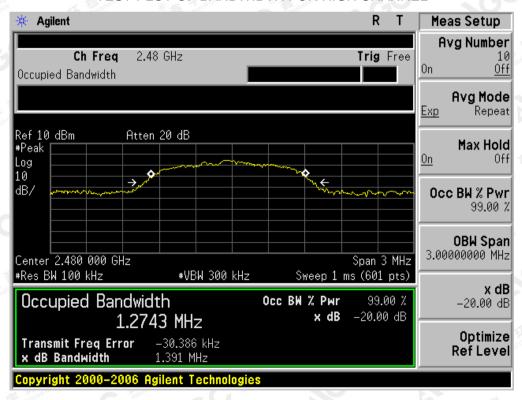
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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12. FCC LINE CONDUCTED EMISSION TEST

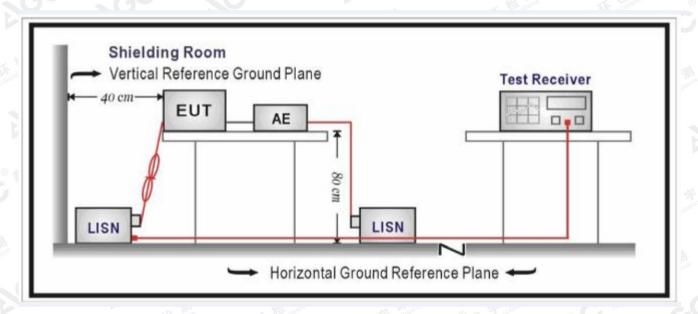
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

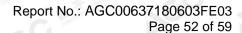
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.
- 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 EUT isn't work when charging.





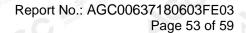
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

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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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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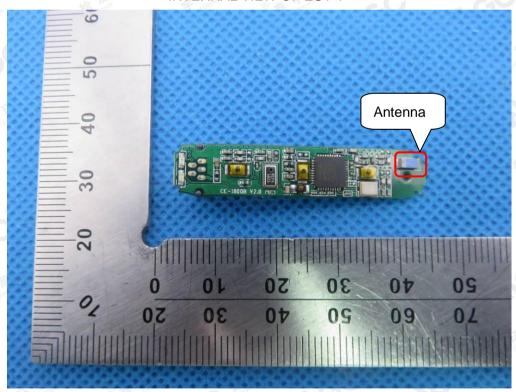
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



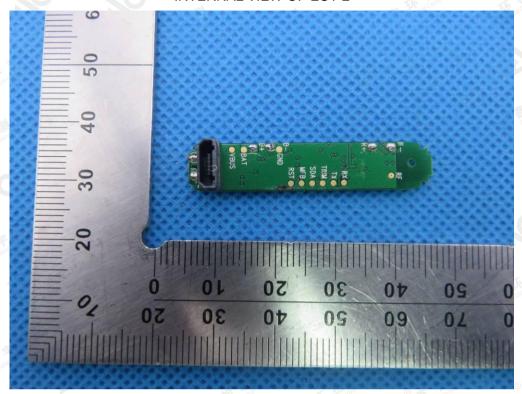
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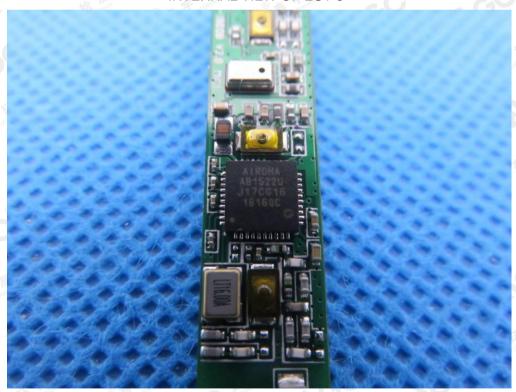
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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