

FCC Test Report

Report No.: AGC04138180502FE03

FCC ID : 2AAXO-SMM475

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Duet Karaoke Microphone

BRAND NAME : Singing Machine

MODEL NAME : See page 4

CLIENT: The Singing Machine Company, Inc.

DATE OF ISSUE : Jun. 05, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC 3

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Sold Transfer	Jun. 05, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	The Singing Machine Company, Inc.				
Address	6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA				
Manufacturer	Zhuhai Fullwing Electronic Co., Ltd Zhongshan Branch				
Address	4/F & 5/F, No 10, Xing Ye Road, Xin Xu, San Xiang, Zhongshan, China				
Product Designation	Duet Karaoke Microphone				
Brand Name	Singing Machine				
Test Model	SMM475				
Series Model	SMM475XX, SMM465B, SMM465P, SMM465XX (X is reserved for future color change. It can be replaced by 0-9, A-Z or N/A)				
Difference description	All the same except for the model name and appearance color				
Date of test	May 23, 2018 to Jun. 04, 2018				
Deviation	None 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	Jowhen Wang	
The Compliance & The Control of the	Jonhen Wang(Wang Yonghuan)	Jun. 04, 2018
	and change	
Reviewed By	Enterior Company	(S) September 1997
	Cool Cheng(Cheng Mengguo)	Jun. 05, 2018
Approved By	Foresto ei	
All Control of Manager of the Control of the Contro	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 05, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

W Control of the street of the	
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-6.93dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79
Hardware Version	smc475hw_v0.1
Software Version	smc475hw_v0.1
Antenna Designation	PCB Antenna
Antenna Gain	-0.58dBi
Power Supply	DC 3.7V by battery
Note: The USB port only us	sed for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Cha	Channel Number		Frequency	
NG o	-mil	O K KA	The Compliance	2402MHz	® ## Findon
	The compliance	© #1 John of Ciobar ©	Attestation of Gib	2403MHz	0
	e alon of Gibb			:	
		38	- FILE	2440 MHz	K Clobal Compile
2400~2483.5MHz	N TO THE	39	omplia" (8 # Jon of Glob	2441 MHz	-0
	® American of Globas	40	GO MINISTER	2442 MHz	
			7111	**************************************	事。
	lin:	77	Global Compliance	2479 MHz	Allestation
	The tomplanes	78	the station	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 1	Low channel GFSK	
	© 7 2 2 10 C	Middle channel GFSK	
C	3	High channel GFSK	
	4	Low channel π /4-DQPSK	3
Kit plane	5	Middle channel π /4-DQPSK	
bbal Co	6	High channel π /4-DQPSK	K3 Th
G	7	BT Link with charging	000
	8	BT Link	4

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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Software Setting FCCAssist 1.5 Parameter ΤX MODE Channel Packet type 2-DH3 Data Types Pn9 COM3 Serial Port Transmit Power Hopping OFF open COM3 succeed Send configuration Channel: 78 Data Types: Pn9 Transmit Power: 10 Packet type: 2-DH3 Send configuration information successfully Description: 1. Channel: range 0-78, corresponding frequency 2.402GHz-2.480GHZ 2. Transmit Power range 0-10, 0 is the minimum, maximum 10

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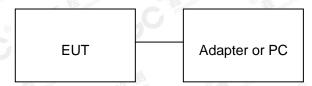


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5. SYSTEM TEST CONFIGURATION

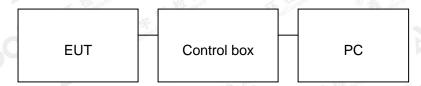
5.1. CONFIGURATION OF EUT SYSTEM

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	Duet Karaoke Microphone	Singing Machine	SMM475	EUT	
2	Battery	EXL EXL	18650	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A GO	1m unshielded	A.E	
7	IPOD	APPLE	Touch 5	A.E	

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5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The total complaints (S. W.	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	技訓
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co
30 ~ 88	3 F 1000	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3. I	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 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.

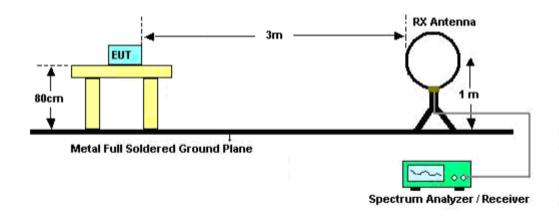
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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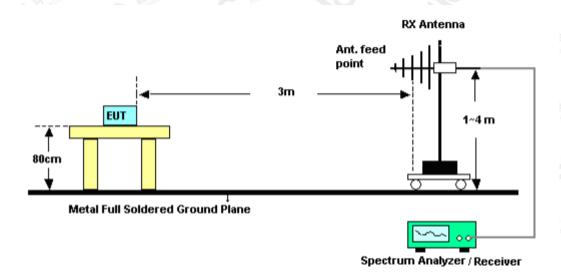


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

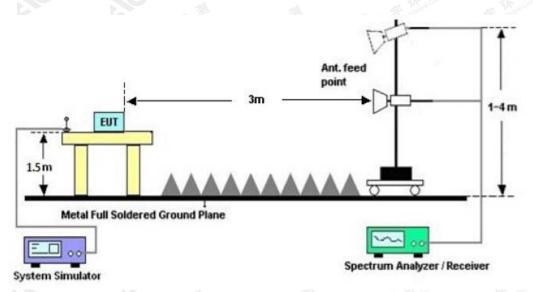


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

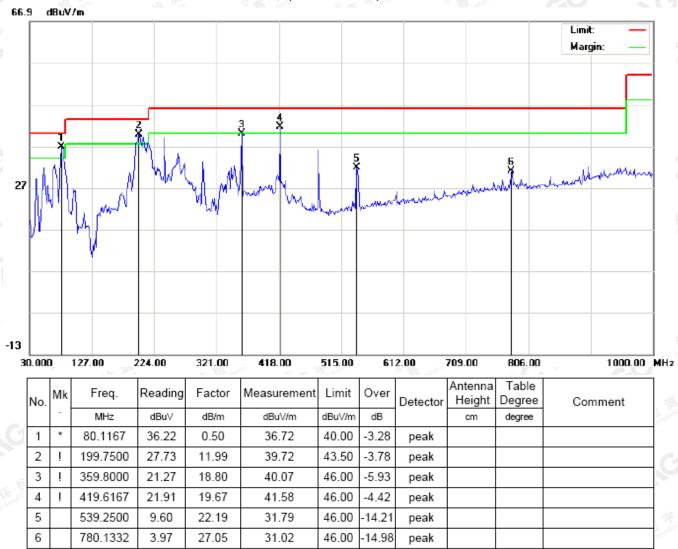
(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

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



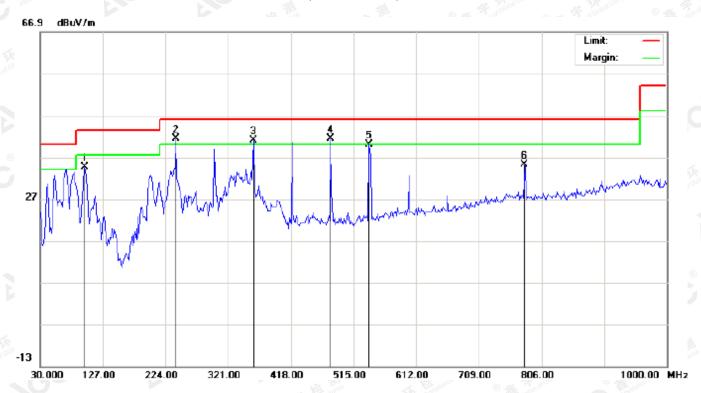
RESULT: PASS

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



ı	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	
37.	1		99.5167	24.70	10.00	34.70	43.50	-8.80	peak			
	2	ļ	240.1667	33.48	7.90	41.38	46.00	-4.62	peak			
	3	į	359.8000	22.14	18.80	40.94	46.00	-5.06	peak			
	4	*	479.4333	20.55	20.91	41.46	46.00	-4.54	peak			
	5	į	539.2500	17.89	22.19	40.08	46.00	-5.92	peak			
	6		780.1332	8.07	27.05	35.12	46.00	-10.88	peak			

RESULT: PASS

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

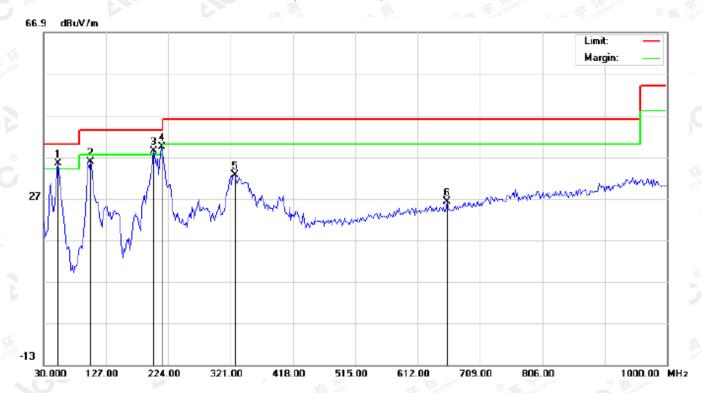
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	į	52.6333	27.02	8.41	35.43	40.00	-4.57	peak			
2		102.7500	25.92	9.84	35.76	43.50	-7.74	peak			
3	į	201.3667	26.51	11.86	38.37	43.50	-5.13	peak			
4	*	214.3000	28.91	10.54	39.45	43.50	-4.05	peak			
5		327.4667	15.31	17.24	32.55	46.00	-13.45	peak			
6		657.2667	2.09	24.05	26.14	46.00	-19.86	peak			

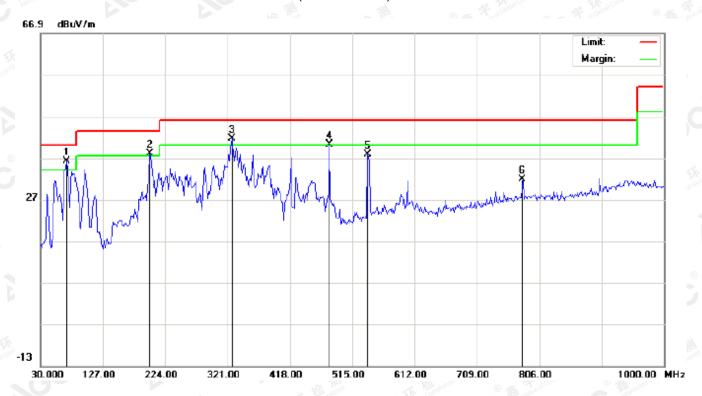
RESULT: PASS

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
30	1	*	70.4167	26.38	9.85	36.23	40.00	-3.77	peak			
	2	į	199.7500	26.02	11.99	38.01	43.50	-5.49	peak			
	3	į	327.4667	24.33	17.24	41.57	46.00	-4.43	peak			
-	4	į	479.4333	19.33	20.91	40.24	46.00	-5.76	peak			
	5		539.2500	15.65	22.19	37.84	46.00	-8.16	peak			
	6		780.1332	4.83	27.05	31.88	46.00	-14.12	peak			

RESULT: PASS

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

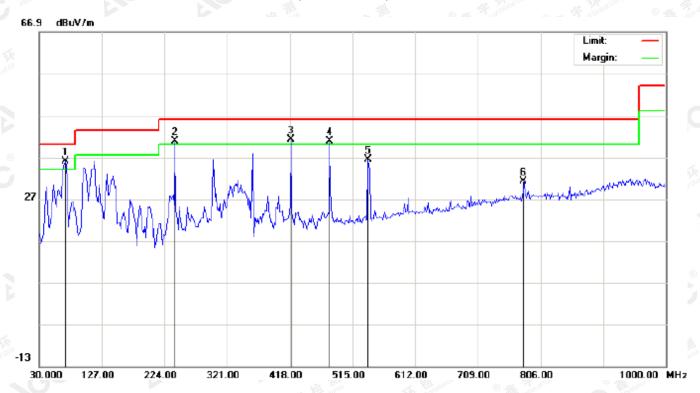
2. The "Factor" value can be calculated automatically by software of measurement system.

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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
ę		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
313	1	*	70.4167	26.23	9.85	36.08	40.00	-3.92	peak			
	2	İ	240.1667	32.84	7.90	40.74	46.00	-5.26	peak			
	3	İ	419.6167	21.61	19.67	41.28	46.00	-4.72	peak			
	4	İ	479.4333	19.91	20.91	40.82	46.00	-5.18	peak			
	5		539.2500	14.26	22.19	36.45	46.00	-9.55	peak			
	6		780.1332	4.10	27.05	31.15	46.00	-14.85	peak			

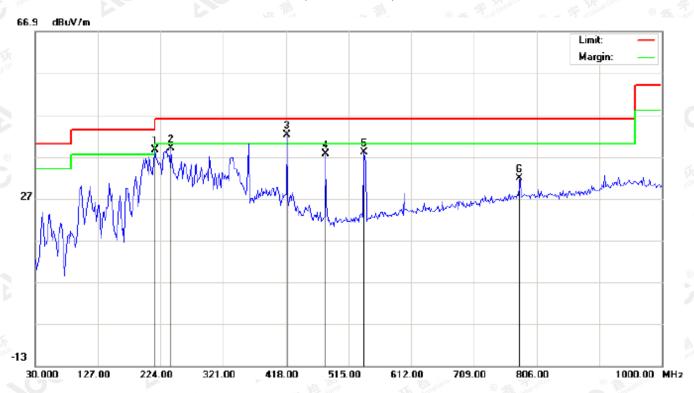
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	Į.	215.9167	28.23	10.38	38.61	43.50	-4.89	peak			
2		240.1667	31.15	7.90	39.05	46.00	-6.95	peak			
3	*	419.6167	22.58	19.67	42.25	46.00	-3.75	peak			
4		479.4333	16.79	20.91	37.70	46.00	-8.30	peak			
5		539.2500	15.79	22.19	37.98	46.00	-8.02	peak			
6		780.1332	4.81	27.05	31.86	46.00	-14.14	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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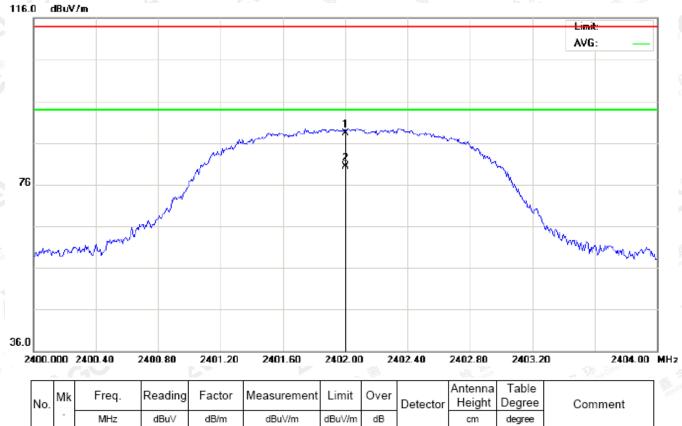
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	77.95	10.32	88.27	114.00	-25.73	peak			
2	*	2402.000	70.03	10.32	80.35	94.00	-13.65	AVG	100	32	

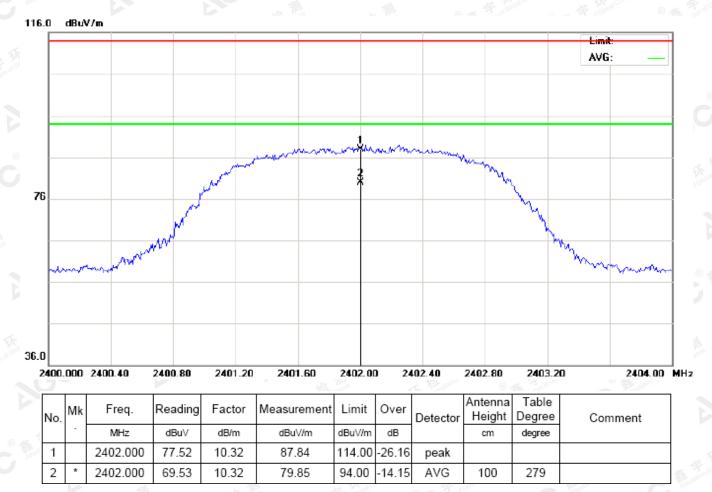
RESULT. PASS

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



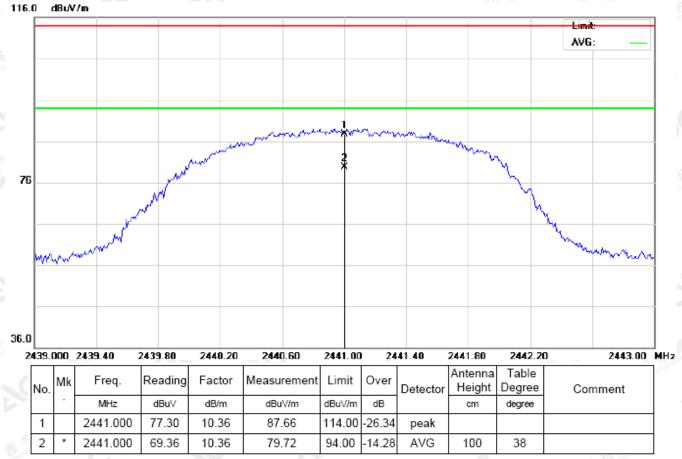
RESULT: PASS

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



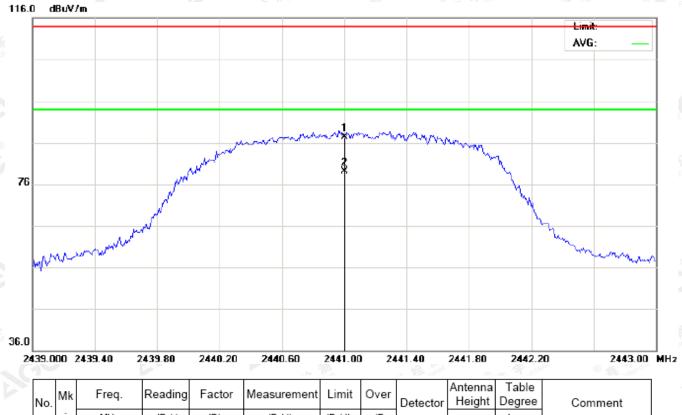
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
į.	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	76.88	10.36	87.24	114.00	-26.76	peak			
2	*	2441.000	68.82	10.36	79.18	94.00	-14.82	AVG	100	286	

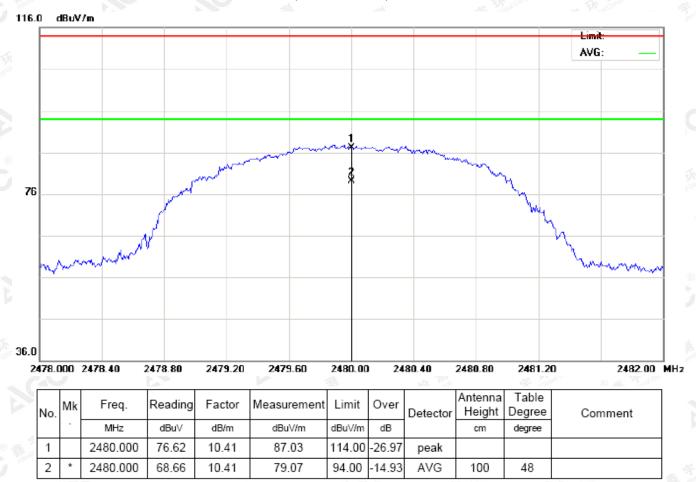
RESULT: PASS

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



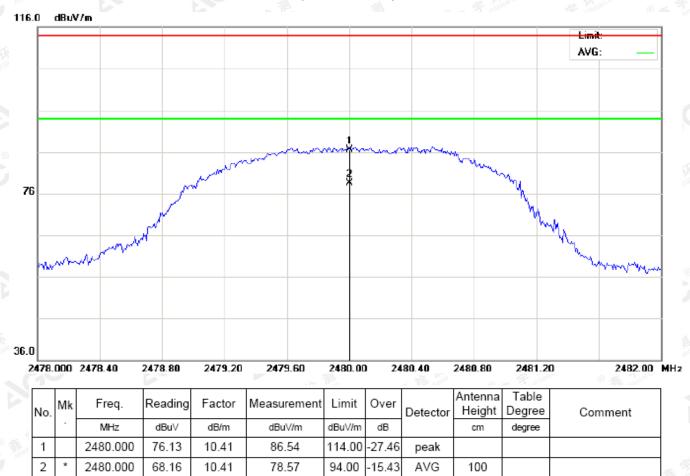
RESULT: PASS

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



RESULT: PASS

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.95	10.32	88.27	114	-25.73	Horizontal
2402	77.52	10.32	87.84	114	-26.16	Vertical
2441	77.30	10.36	87.66	114	-26.34	Horizontal
2441	76.88	10.36	87.24	114	-26.76	Vertical
2480	76.62	10.41	87.03	114	-26.97	Horizontal
2480	76.13	10.41	86.54	114	-27.46	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	70.03	10.32	80.35	94	-13.65	Horizontal
2402	69.53	10.32	79.85	94	-14.15	Vertical
2441	69.36	10.36	79.72	94	-14.28	Horizontal
2441	68.82	10.36	79.18	94	-14.82	Vertical
2480	68.66	10.41	79.07	94	-14.93	Horizontal
2480	68.16	10.41	78.57	94	-15.43	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	77.45	10.32	87.77	114	-26.23	Horizontal	
2402	77.02	10.32	87.34	114	-26.66	Vertical	
2441	76.85	10.36	87.21	114	-26.79	Horizontal	
2441	76.47	10.36	86.83	114	-27.17	Vertical	
2480	76.31	10.41	86.72	114	-27.28	Horizontal	
2480	75.71	10.41	86.12	114	-27.88	Vertical	

Average value

3							
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	69.67	10.32	79.99	94	-14.01	Horizontal	
2402	69.17	10.32	79.49	94	-14.51	Vertical	
2441	68.88	10.36	79.24	94	-14.76	Horizontal	
2441	68.43	10.36	78.79	94	-15.21	Vertical	
2480	68.16	10.41	78.57	94	-15.43	Horizontal	
2480	67.73	10.41	78.14	94	-15.86	Vertical	

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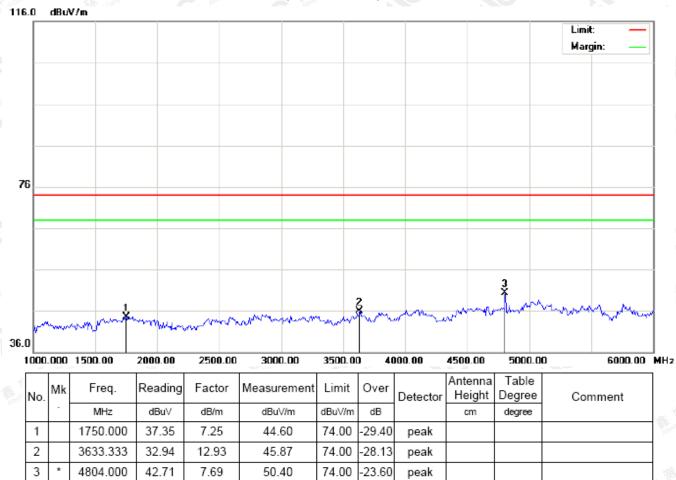


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(Worst modulation: GFSK)

For Harmonics

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



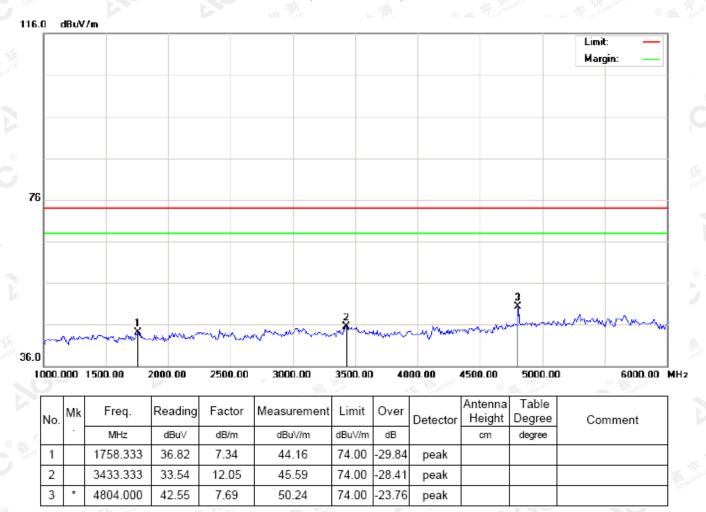
RESULT: PASS

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



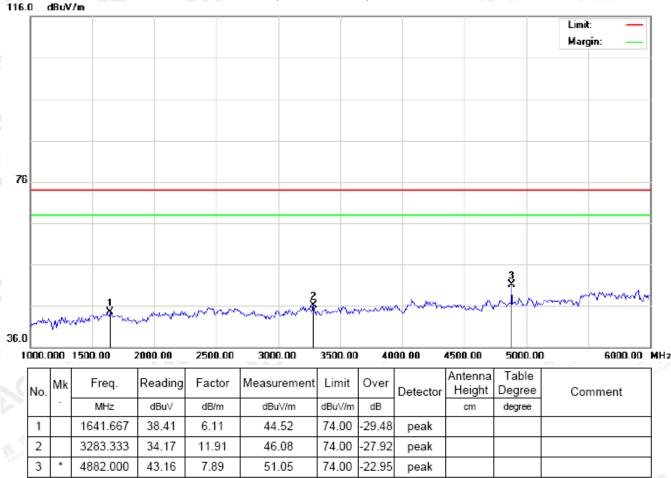
RESULT: PASS

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



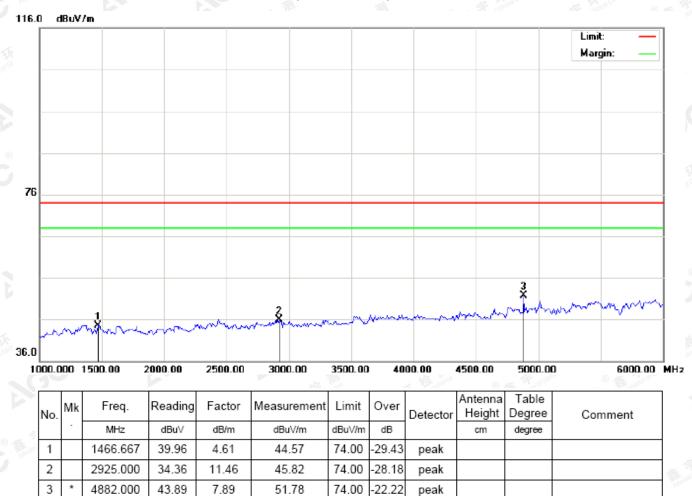
RESULT: PASS

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



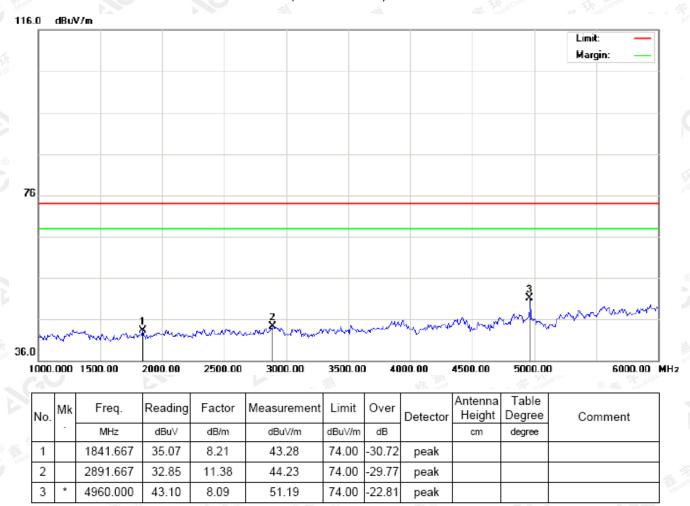
RESULT: PASS

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



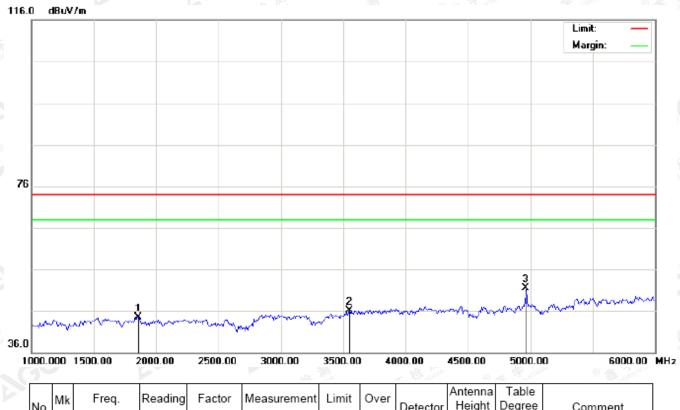
RESULT: PASS

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



N	D. N	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
8		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
10			1858.333	36.07	8.39	44.46	74.00	-29.54	peak			
2	!		3550.000	33.65	12.42	46.07	74.00	-27.93	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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10. BAND EDGE EMISSION

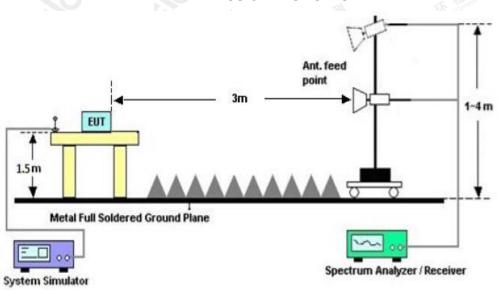
10.1. MEASUREMENT PROCEDURE

- 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

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



-				3.31								
NZ	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		2343.158	32.88	10.26	43.14	74.00	-30.86	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	78.22	10.32	88.54	74.00	14.54	peak			
	5	Х	2402.000	70.15	10.32	80.47	74.00	6.47	AVG	100	39	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



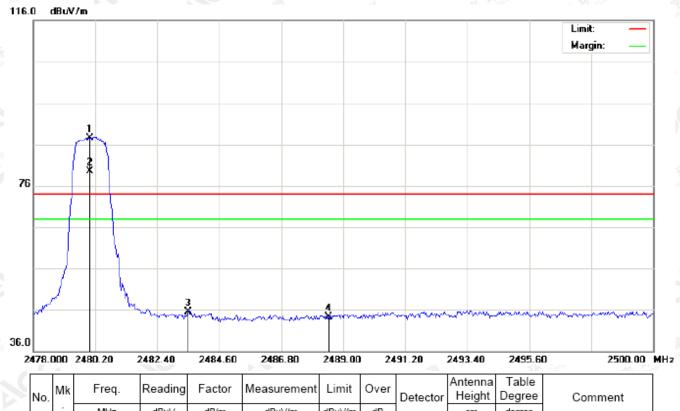
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
its	1		2362.975	32.05	10.28	42.33	74.00	-31.67	peak			
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
	4	*	2402.000	78.09	10.32	88.41	74.00	14.41	peak			
	5	Х	2402.000	69.80	10.32	80.12	74.00	6.12	AVG	100		

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



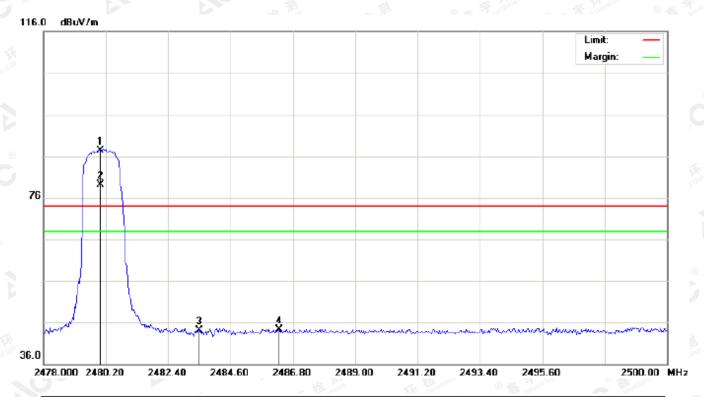
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1	*	2480.000	77.05	10.41	87.46	74.00	13.46	peak			
3	2	Х	2480.000	69.10	10.41	79.51	74.00	5.51	AVG	100	35	
	3		2483.500	35.19	10.41	45.60	74.00	-28.40	peak			
4	4		2488.486	33.81	10.42	44.23	74.00	-29.77	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



N). I	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		*	2480.000	76.82	10.41	87.23	74.00	13.23	peak			
2		Х	2480.000	68.67	10.41	79.08	74.00	5.08	AVG	100	267	
3			2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
4			2486.323	33.94	10.41	44.35	74.00	-29.65	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

BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		D							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The state of the s	Low Channel	0.895	1.053	PASS					
N/A	Middle Channel	0.893	1.023	PASS					
100	High Channel	0.910	1.071	PASS					

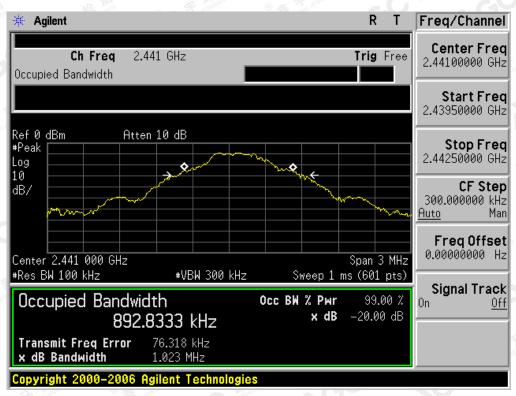
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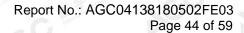
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

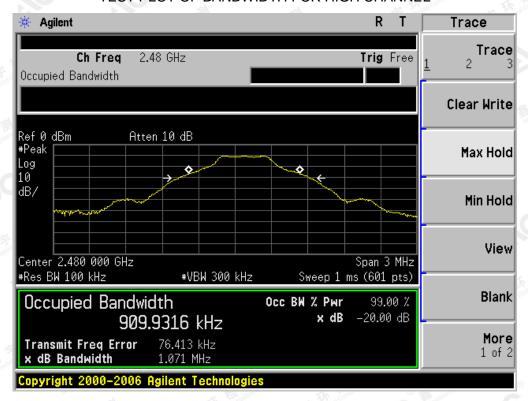


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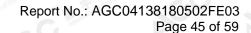




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



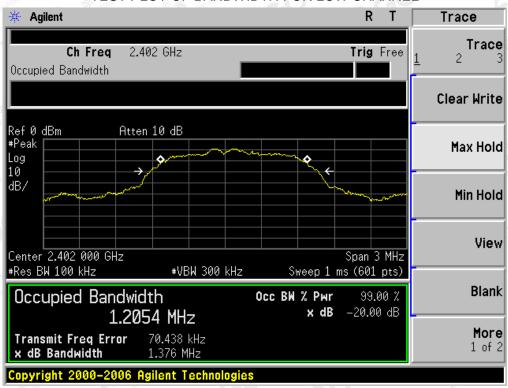
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.205 **PASS** 1.376 1.211 **PASS** N/A Middle Channel 1.379 1.211 **PASS High Channel** 1.376

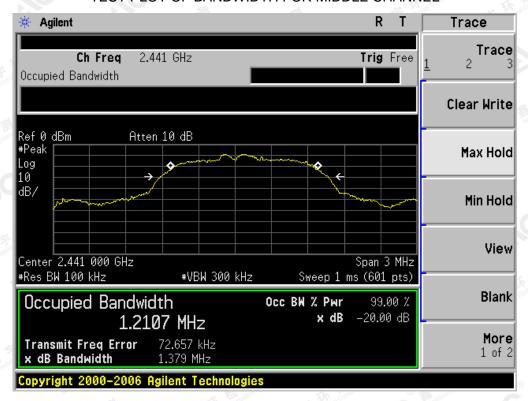
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



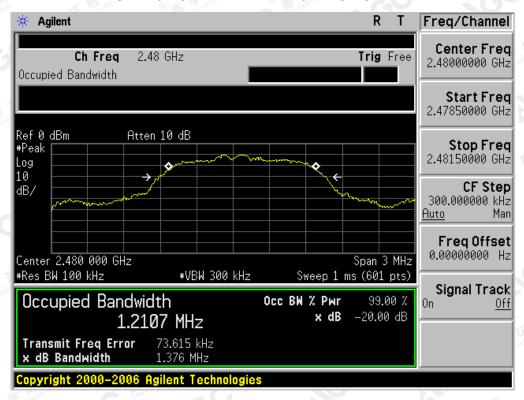
The results spowfil this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

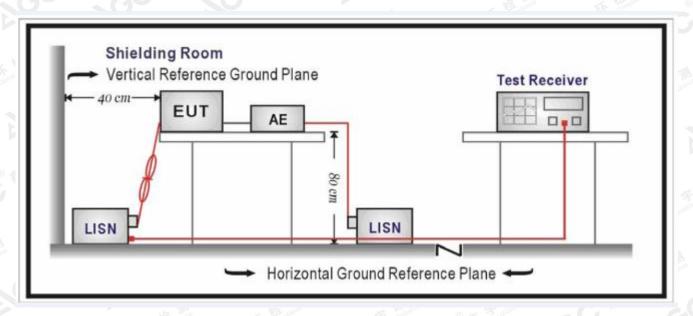
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

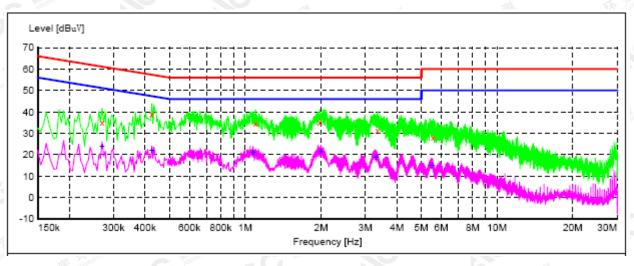
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.270000	35.20	10.1	61	25.9	QP	L1	FLO
0.426000	38.90	10.0	57	18.4	QP	L1	FLO
1.098000	34.50	10.1	56	21.5	QP	L1	FLO
1.974000	35.10	9.9	56	20.9	QP	L1	FLO
3.354000	31.50	10.0	56	24.5	QP	L1	FLO
5.570000	28.10	10.2	60	31.9	QP	L1	FLO

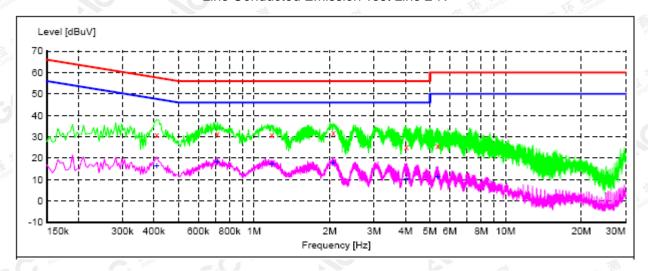
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.270000 0.426000	23.80 21.80	10.1	51 47	27.3 25.5	AV AV	L1 L1	FLO FLO
1.074000	21.00	10.1	46	25.0	AV	L1	FLO
1.994000	21.60	9.9	46	24.4	AV	L1	FLO
3.310000	18.80	10.0	46	27.2	AV	L1	FLO
5.490000	15.10	10.2	50	34.9	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



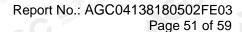
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000	31.00	10.0	58	26.6	QP	N	FLO
0.714000	31.40	9.9	56	24.6	QP	N	FLO
1.178000	30.90	10.1	56	25.1	QP	N	FLO
2.066000	32.00	9.9	56	24.0	QP	N	FLO
4.034000	25.40	10.1	56	30.6	QP	N	FLO
5.366000	25.80	10.2	60	34.2	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.410000 0.714000 1.178000	16.50 18.30 17.50	10.0 9.9 10.1	48 46 46	31.1 27.7 28.5	AV AV	N N N	FLO FLO FLO
2.066000 4.034000	17.70	9.9	46 46		AV AV	N N	FLO FLO
5.366000	11.40	10.2	50	38.6	AV	N	FLO

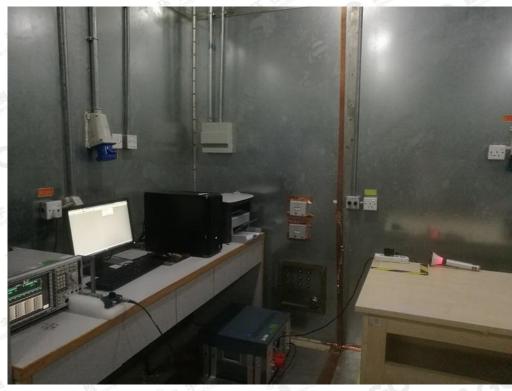
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



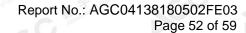
FCC RADIATED EMISSION TEST SETUP



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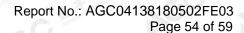
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



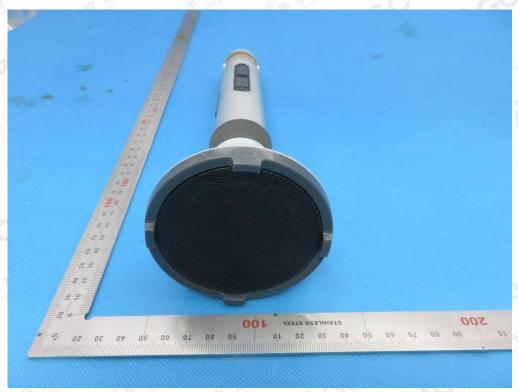
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FRONT VIEW OF EUT



BACK VIEW OF EUT



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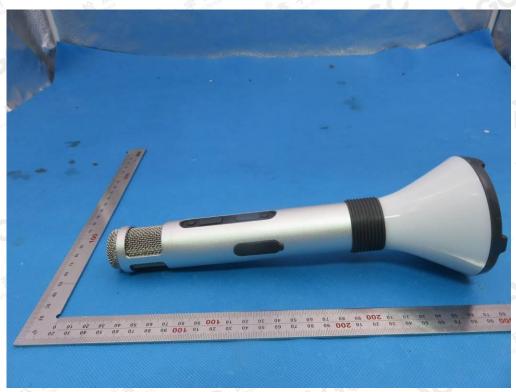
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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



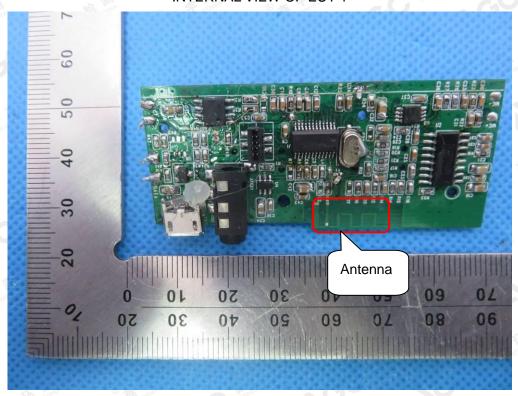
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



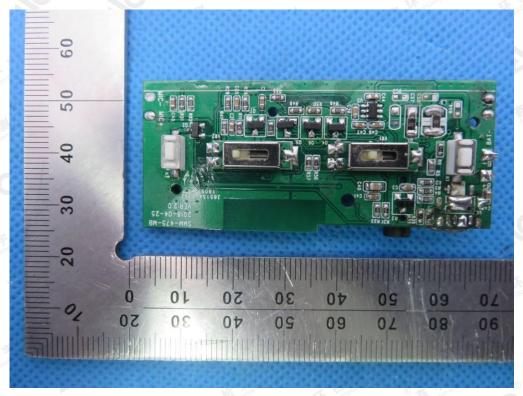
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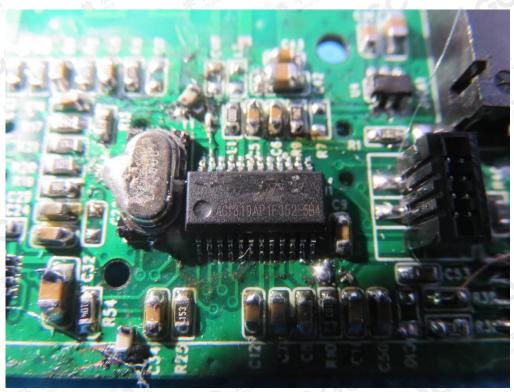
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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