

FCC Test Report

Report No.: AGC02320180201FE03

FCC ID : 2AO47-A1

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Flame Atmosphere Lamp Wireless Speaker

BRAND NAME : N/A

MODEL NAME : A1+

CLIENT: Shenzhen Kingstar Industrial Co., Ltd

DATE OF ISSUE : Mar. 08, 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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Attestation of Global Compliance

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Page 2 of 63

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Allenos / Salar	Mar. 08, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5 5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 9
6. TEST FACILITY	10
7. TEST METHOD	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1. TEST LIMIT	12 13
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	38
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43 43
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	54
APPENDIX B. PHOTOGRAPHS OF FUT	57



age 4 of 63

1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Kingstar Industrial Co., Ltd			
Address	Room 211, Min Le technology Building, Meiban Road, LongHua District, Shenzhen China			
Manufacturer	Shenzhen Kingstar Industrial Co., Ltd			
Address	Room 211, Min Le technology Building, Meiban Road, LongHua District, Shenzhen China			
Product Designation	Flame Atmosphere Lamp Wireless Speaker			
Brand Name	N/A			
Test Model	A1+			
Date of test	Mar. 01, 2018 to Mar. 05, 2018			
Deviation	None			
Condition of Test Sample	Normal Normal State of the Stat			
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	Bong Lu	
June of Complaints (6) Milestation	Berg Lu(Lu Bing)	Mar. 05, 2018
Reviewed By	Foresto ce	
The Williams	Forrest Lei(Lei Yonggang)	Mar. 08, 2018

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Page 5 of 63

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	3.15dBm(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	V1.1
Software Version	4.2.10
Antenna Designation	PCB Antenna
Antenna Gain	OdBi Samura Samu
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
(8) Afficiation of Goden	0	2402MHz
CO		2403MHz
The Manual Control of the Control of	THE THE CONTRACTOR OF THE PARTY	- GC - GC
® ## # Cubalco	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
The Manuscree & Manuscree Could	© Martine of Section 1	-10 - DO DO
of Godaliu	77	2479 MHz
	78	2480 MHz



Page 6 of 63

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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

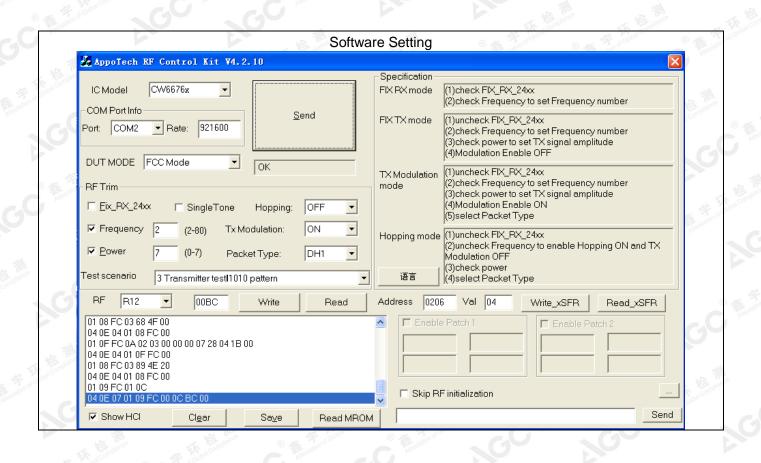
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1 The Warming	Low channel GFSK			
® # 2 do @ #	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
1 5 Th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Middle channel π /4-DQPSK			
6 and Good	High channel π /4-DQPSK			
7	Low channel 8DPSK			
8	Middle channel 8DPSK			
9 @ A grand Close	High channel 8DPSK			
10	BT Link with charging			
11	BT Link			

Note

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.







Page 8 of 63

5. SYSTEM TEST CONFIGURATION

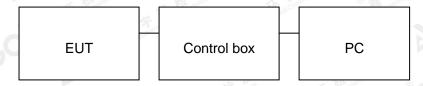
5.1. CONFIGURATION OF EUT SYSTEM

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.	pe No. Remark	
1	Flame Atmosphere Lamp Wireless Speaker	Kingstar	A1+	EUT	
2	Battery	N/A	N/A	Accessory	
3	PC	APPLE	A1465	A.E	
4	TF Card	Kingston	SDA10/16GB	A.E	
5	Control box	DOFLY	N/A	A.E	
6	Adapter	IPRO	NTR-S01	A.E	
7	USB Cable	N/A	1m unshielded	A.E	



Page 9 of 63

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



Page 10 of 63

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		



age 11 of 63

7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	G	Mar. 01, 2018	Feb. 28, 2020



Page 12 of 63

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 St	rengths 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)	电视 不是心
1.705 ~ 30	30	30	Company of Circumstance of Cir
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 F. F. Standard 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.



Page 13 of 63

9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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Page 14 of 63

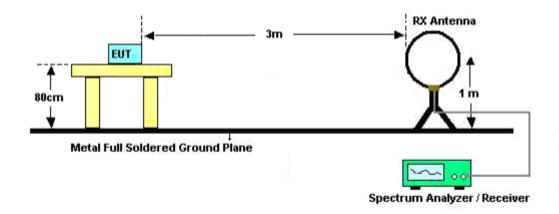
The following table is the setting of spectrum analyzer and receiver.

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

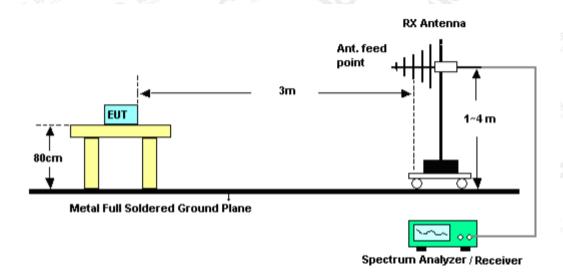


9.3. TEST SETUP

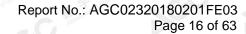
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

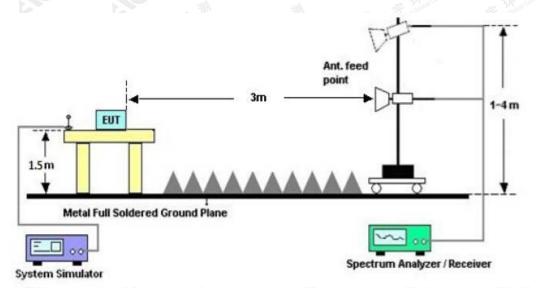


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 63

9.4. TEST RESULT

(Worst modulation: GFSK)

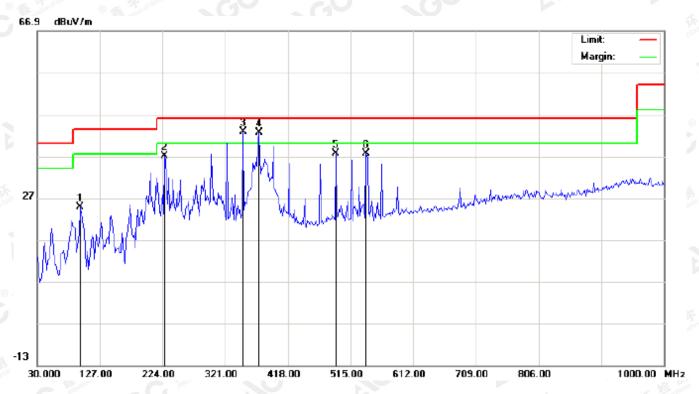
FOR BR/EDR

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

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



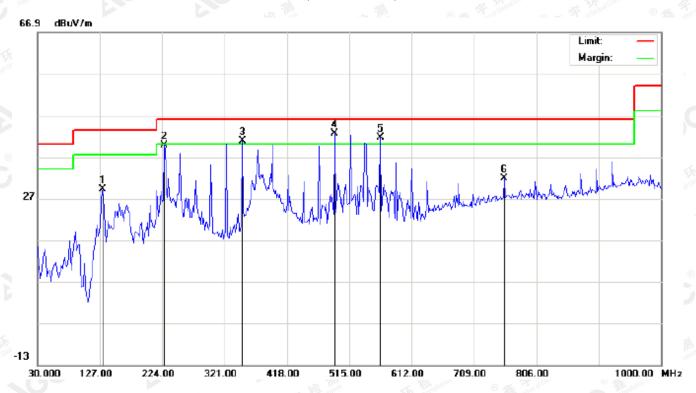
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	17.98	6.77	24.75	43.50	-18.75	peak			
2		227.2333	27.82	9.22	37.04	46.00	-8.96	peak			
3	*	348.4833	24.16	18.64	42.80	46.00	-3.20	peak			
4	İ	372.7333	23.75	18.89	42.64	46.00	-3.36	peak			
5		492.3667	16.62	21.05	37.67	46.00	-8.33	peak			
6		539.2500	15.35	22.19	37.54	46.00	-8.46	peak			

RESULT: PASS



Page 18 of 63

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
F	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		131.8500	17.41	11.80	29.21	43.50	-14.29	peak			
2		227.2333	28.16	11.67	39.83	46.00	-6.17	peak			
3	İ	348.4833	22.26	18.64	40.90	46.00	-5.10	peak			
4	*	492.3667	21.64	21.05	42.69	46.00	-3.31	peak			
5	İ	563.5000	18.97	22.55	41.52	46.00	-4.48	peak			
6		755.8833	5.10	26.71	31.81	46.00	-14.19	peak		·	-

RESULT: PASS

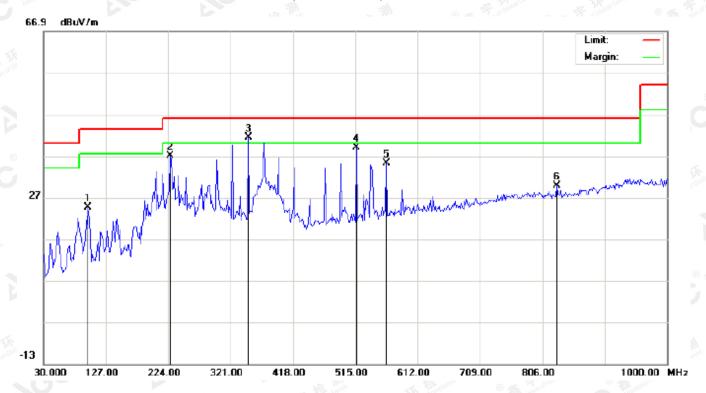
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 19 of 63

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		99.5167	14.66	10.00	24.66	43.50	-18.84	peak			
2		227.2333	27.79	9.22	37.01	46.00	-8.99	peak			
3	*	348.4833	22.72	18.64	41.36	46.00	-4.64	peak			
4		516.6167	17.52	21.58	39.10	46.00	-6.90	peak			
5		563.5000	12.38	22.82	35.20	46.00	-10.80	peak			
6		828.6333	2.52	27.31	29.83	46.00	-16.17	peak		·	

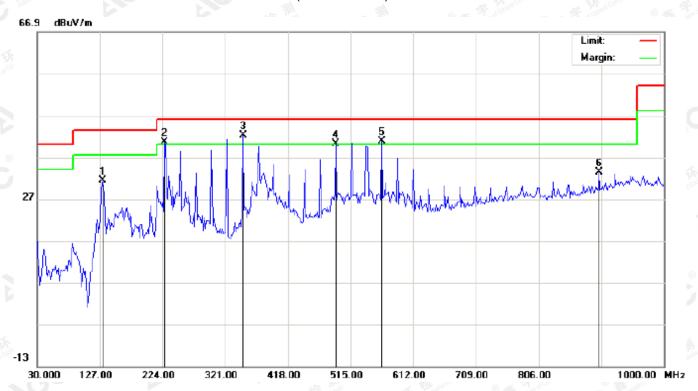
RESULT: PASS

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Page 20 of 63

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
e e	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		131.8500	19.57	11.80	31.37	43.50	-12.13	peak			
2	İ	227.2333	28.89	11.67	40.56	46.00	-5.44	peak			
3	*	348.4833	23.57	18.64	42.21	46.00	-3.79	peak			
4	İ	492.3667	19.21	21.05	40.26	46.00	-5.74	peak			
5	ļ	563.5000	18.27	22.55	40.82	46.00	-5.18	peak			
6		899.7667	4.74	28.60	33.34	46.00	-12.66	peak			

RESULT: PASS

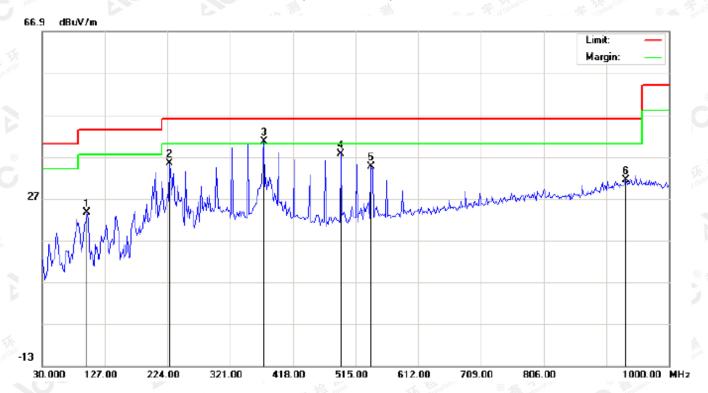
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 21 of 63

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



١	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
510	1		99.5167	13.60	10.00	23.60	43.50	-19.90	peak			
	2		227.2333	26.21	9.22	35.43	46.00	-10.57	peak			
	3	*	372.7333	21.74	18.89	40.63	46.00	-5.37	peak			
	4		492.3667	16.64	21.05	37.69	46.00	-8.31	peak			
	5		539.2500	12.49	22.19	34.68	46.00	-11.32	peak			
	6		933.7167	1.83	29.55	31.38	46.00	-14.62	peak			

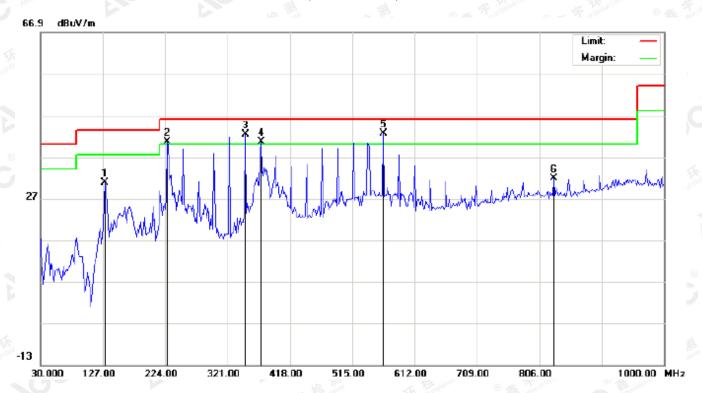
RESULT: PASS

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Page 22 of 63

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	dBuV/m	dBu∀/m	dB		cm	degree	
1		130.2333	19.58	11.13	30.71	43.50	-12.79	peak			
2	ļ	227.2333	28.84	11.67	40.51	46.00	-5.49	peak			
3	İ	348.4833	23.75	18.64	42.39	46.00	-3.61	peak			
4	İ	372.7333	21.70	18.89	40.59	46.00	-5.41	peak			
5	*	563.5000	20.15	22.55	42.70	46.00	-3.30	peak			
6		828.6333	4.49	27.31	31.80	46.00	-14.20	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.



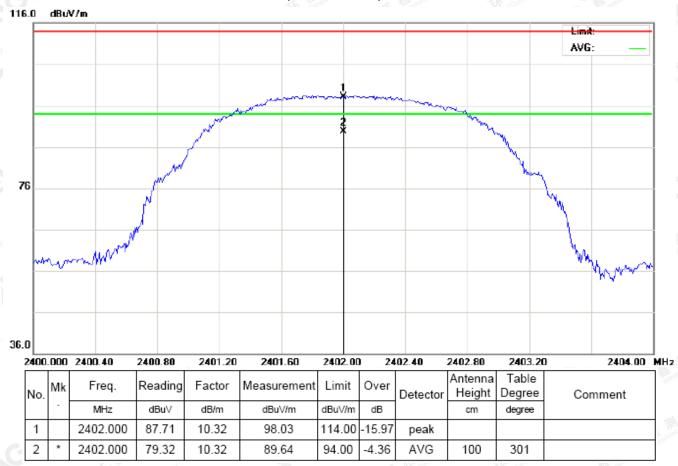
Page 23 of 63

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)
FOR BR/EDR

For Fundamental

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

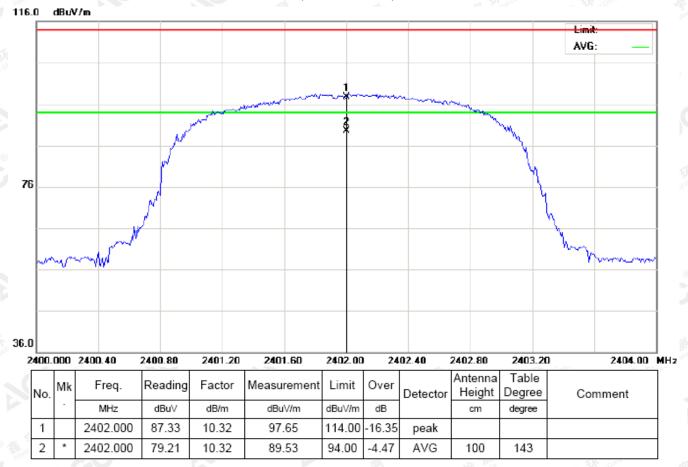


RESULT: PASS



Page 24 of 63

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



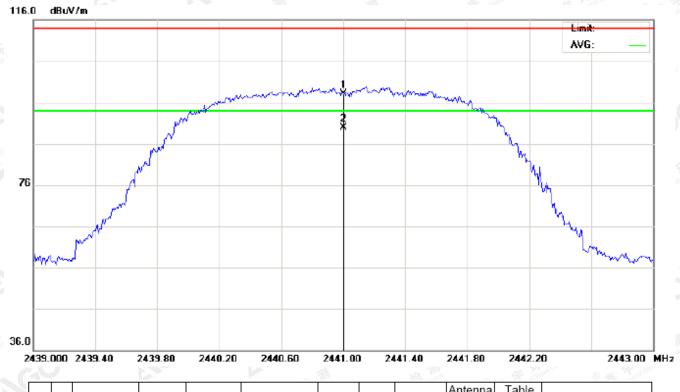
RESULT: PASS

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Page 25 of 63

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



4 .												
	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	
30	1		2441.000	87.80	10.36	98.16	114.00	-15.84	peak			
	2	*	2441.000	79.50	10.36	89.86	94.00	-4.14	AVG	100	354	

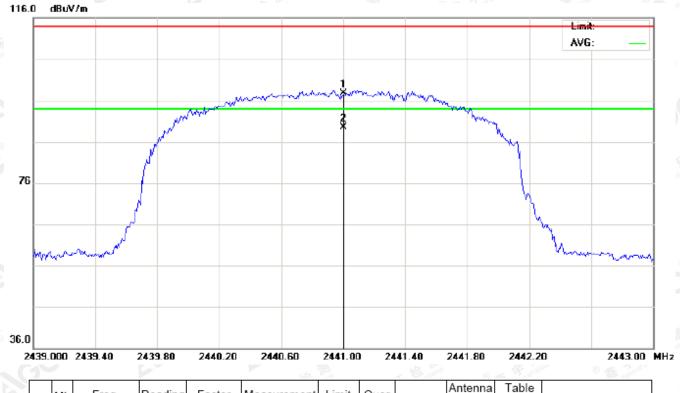
RESULT: PASS

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Page 26 of 63

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	87.37	10.36	97.73	114.00	-16.27	peak			
2	*	2441.000	79.20	10.36	89.56	94.00	-4.44	AVG	100	124	

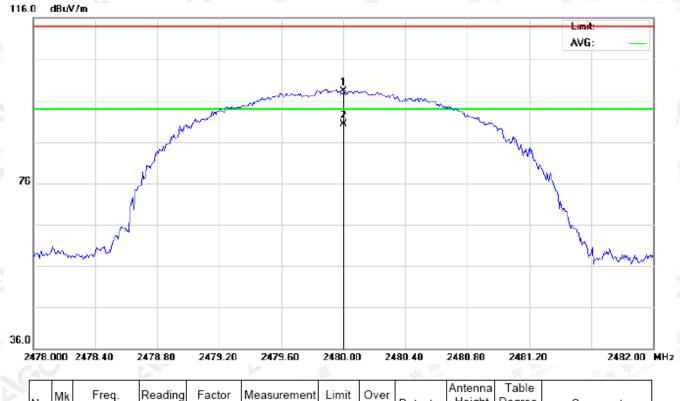
RESULT: PASS

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Page 27 of 63

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
50	1		2480.000	87.94	10.41	98.35	114.00	-15.65	peak			
	2	*	2480.000	79.94	10.41	90.35	94.00	-3.65	AVG	100	321	

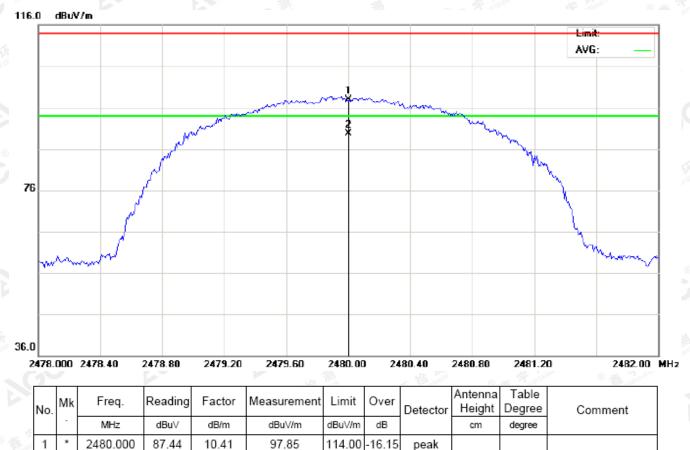
RESULT: PASS

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Page 28 of 63

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



RESULT: PASS

2480.000

79.18

10.41

2

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

89.59

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

94.00

-4.41

AVG

100

136

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Page 29 of 63

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	87.71	10.32	98.03	114	-15.97 -16.35	Horizontal	
2402	87.33	10.32	10.32 97.65	114		Vertical	
2441	87.80	10.36	98.16	114	-15.84	Horizontal	
2441	87.37	10.36	97.73	114	-16.27	Vertical	
2480	87.94	10.41	98.35	114 -15.65		Horizontal	
2480	87.44	10.41	97.85	114	-16.15	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit Over		Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.32	10.32	89.64	94	-4.36	Horizontal	
2402	79.21	10.32	89.53	94	94 -4.47		
2441	79.50	10.36	89.86	94	-4.14	Horizontal	
2441	79.20	10.36	89.56	94	-4.44	Vertical	
2480	79.94	10.41	90.35	94	-3.65	Horizontal	
2480	79.30	10.41	89.59	94	-4.41	Vertical	



Page 30 of 63

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit Over		Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.17	10.32	97.49	114 -16.51	Horizontal		
2402	86.82	10.32	97.14	114	-16.86 -16.40	Vertical Horizontal	
2441	87.24	10.36	97.60	114			
2441	86.84	10.36	97.20	114	-16.80	Vertical	
2480	87.43	10.41	97.84	114	-16.16	Horizontal	
2480	86.88	10.41	97.29	114	-16.71	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit Over		Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.77	10.32	89.09	94	-4.91	Horizontal
2402	78.67	10.32	88.99	88.99 94		Vertical
2441	78.96	10.36	89.32	94	-4.68	Horizontal
2441	78.65	10.36	89.01	94	-4.99	Vertical
2480	79.41	10.41	89.82	94	-4.18	Horizontal
2480	78.66	10.41	89.07	94	-4.93	Vertical



Page 31 of 63

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit Over		Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.69	10.32	97.01	114	-16.99	Horizontal	
2402	86.35	10.32	96.67	114 114	-17.33	Vertical Horizontal	
2441	86.75	10.36	97.11		-16.89		
2441	86.38	10.36	96.74	114	-17.26	Vertical	
2480	86.97	10.41	97.38	114	-16.62	2 Horizontal	
2480	86.40	10.41	96.81	114	-17.19	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.30	10.32	88.62	94	-5.38	Horizontal	
2402	78.18	10.32	2 88.50	94	-5.50	Vertical Horizontal	
2441	78.47	10.36	88.83	94	-5.17		
2441	78.17	10.36	88.53	94	-5.47	Vertical	
2480	78.94	10.41	89.35	94	-4.65	Horizontal	
2480	78.19	10.41	88.60	94	-5.40	Vertical	

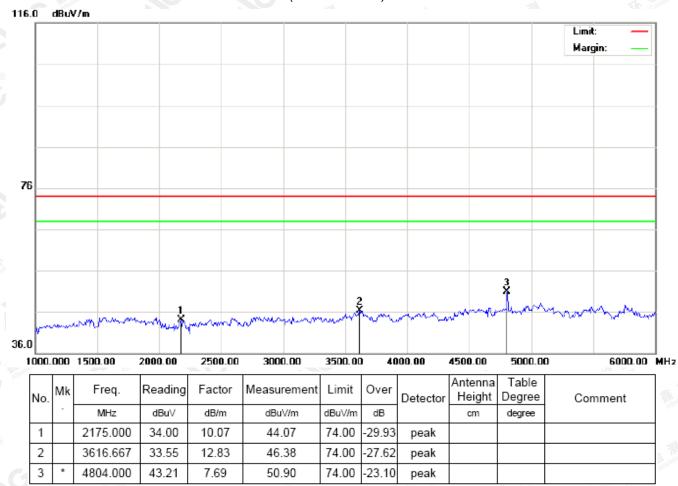


Page 32 of 63

(Worst modulation: GFSK) FOR BR/EDR

For Harmonics

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

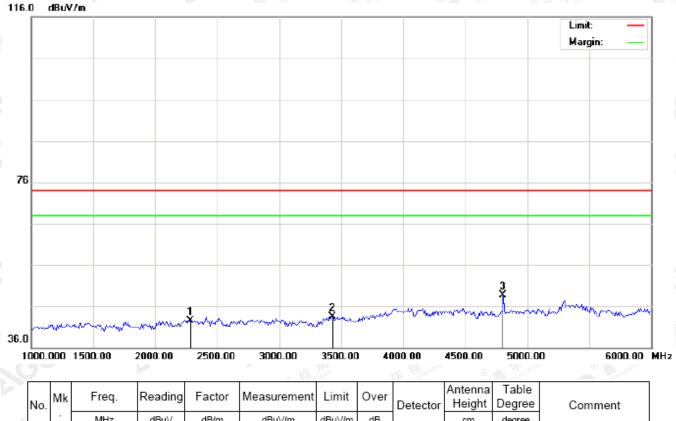


RESULT: PASS



Page 33 of 63

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Detector	Antenna Height	Table Degree	Comment
i	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		
1		2283.333	32.41	10.19	42.60	74.00	-31.40	peak				
2		3433.333	31.54	12.05	43.59	74.00	-30.41	peak				
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak				

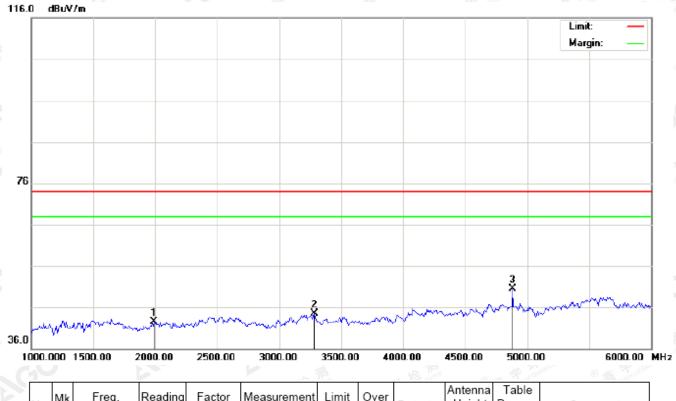
RESULT: PASS

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Page 34 of 63

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



No). N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1			1991.667	32.70	9.79	42.49	74.00	-31.51	peak			
2			3283.333	32.67	11.91	44.58	74.00	-29.42	peak			
3		*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

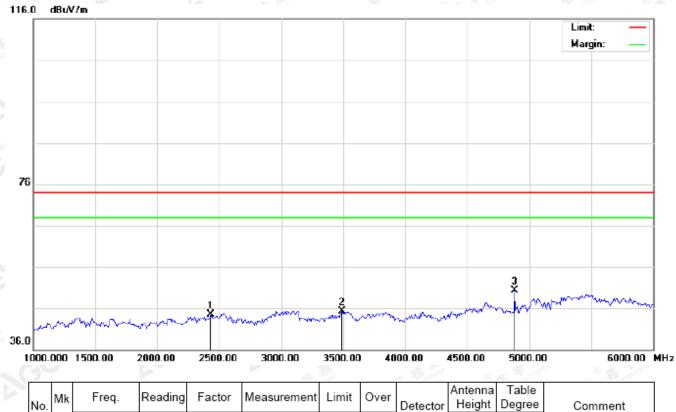
RESULT: PASS

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Page 35 of 63

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
estr	1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
	2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
	3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

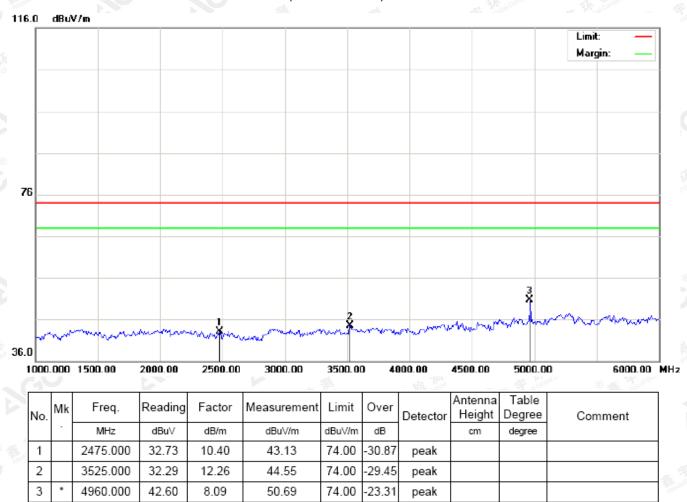
RESULT: PASS

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Page 36 of 63

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



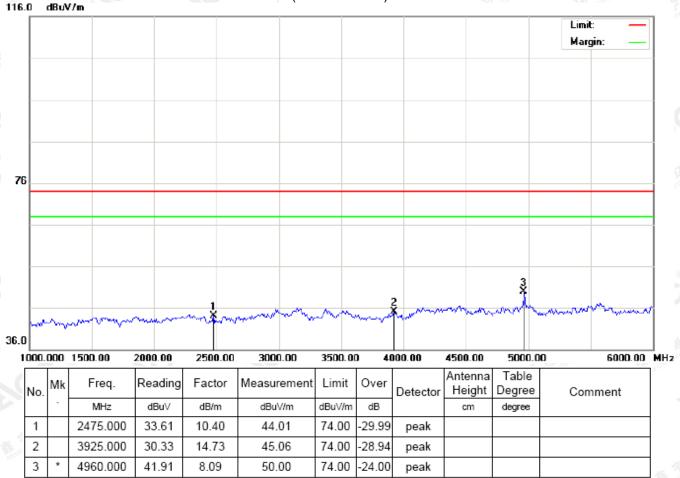
RESULT: PASS

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Page 37 of 63

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



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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Page 38 of 63

10. BAND EDGE EMISSION

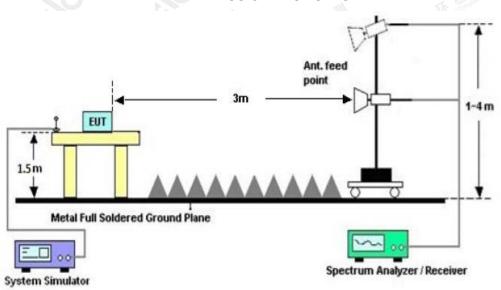
10.1. MEASUREMENT PROCEDURE

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

	Start frequenc	y(MHz)			Stop frequency(MH	z)
	2200	Kingliance	The Compilers	© A station	2405	100°
8 F.	2478	Global Co	attestation of Glob	-,0 "	2500	

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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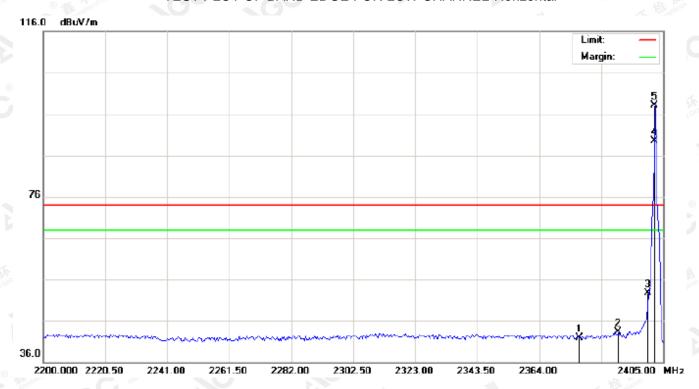
Page 39 of 63

10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2377.325	31.52	10.29	41.81	74.00	-32.19	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	Х	2402.000	79.20	10.32	89.52	74.00	15.52	AVG	100	301	
5	*	2402.000	87.69	10.32	98.01	74.00	24.01	peak			

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Page 40 of 63

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2373.225	31.64	10.29	41.93	74.00	-32.07	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	Х	2402.000	79.19	10.32	89.51	74.00	15.51	AVG	100	145	
5	*	2402.000	87.30	10.32	97.62	74.00	23.62	peak			

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Page 41 of 63

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



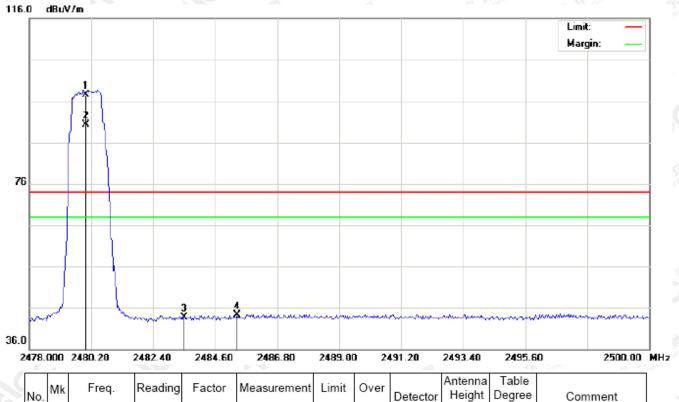
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu√/m	dB		cm	degree	
ă	1	*	2480.000	87.93	10.41	98.34	74.00	24.34	peak			
ď	2	Х	2480.000	79.90	10.41	90.31	74.00	16.31	AVG	100	351	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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Page 42 of 63

TEST PLOT OF BAND EDGE FOR 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	
Š	1	*	2480.000	87.08	10.41	97.49	74.00	23.49	peak			
stat	2	Х	2480.000	79.80	10.41	90.21	74.00	16.21	AVG	100	154	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.370	33.89	10.41	44.30	74.00	-29.70	peak			

RESULT: PASS

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

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

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

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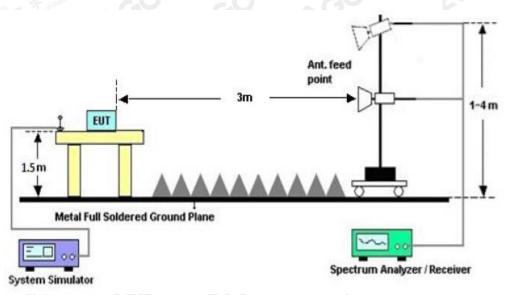
Page 43 of 63

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

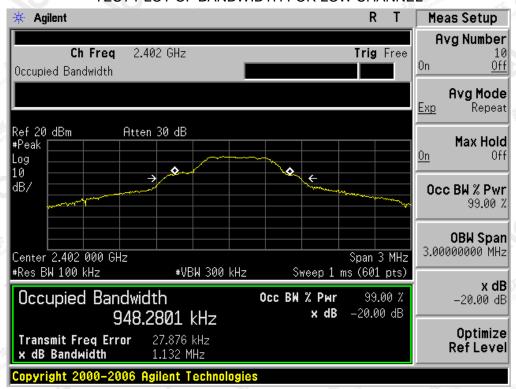
FOR BR/EDR

BLUETO	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz)	-20dB BW(MHz)	Nesult					
Social Compiles (8) State and on the Sta	Low Channel	0.948	1.132	PASS					
N/A	Middle Channel	0.948	1.122	PASS					
	High Channel	0.935	1.126	PASS					

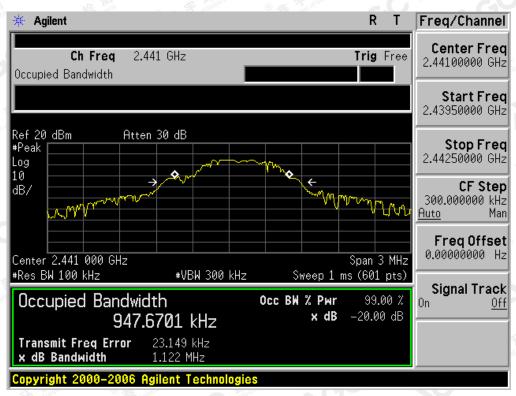
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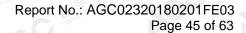
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

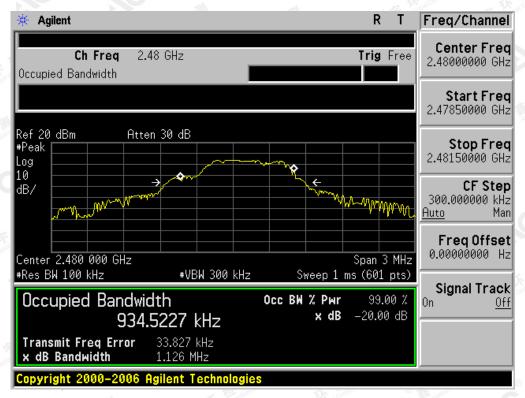


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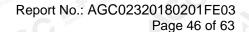




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



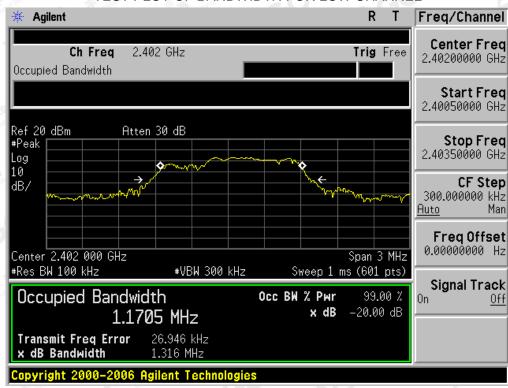
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Alle			- The rest	20 CO					
BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Danult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The plants of the plants	Low Channel	1.171	1.316	PASS					
N/A	Middle Channel	1.164	1.317	PASS					
	High Channel	1.173	1.325	PASS					

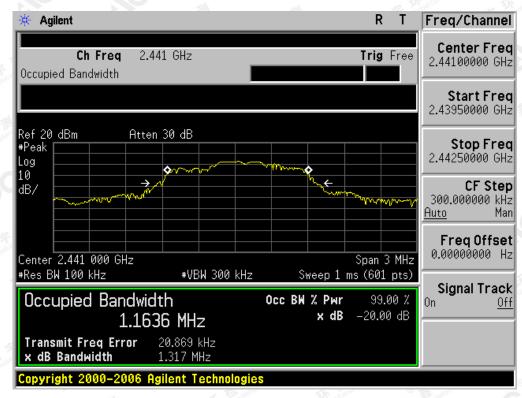
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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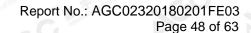
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



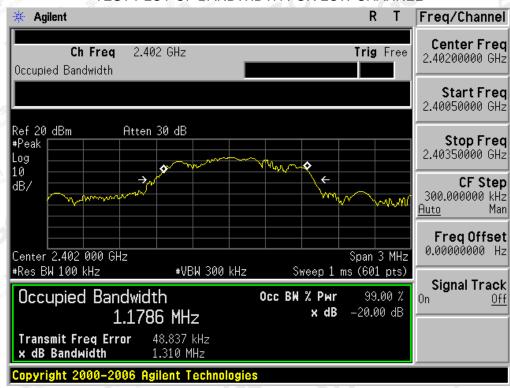
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz)	-20dB BW(MHz)	Nesuit					
TO THE THE THE THE THE THE THE THE THE THE	Low Channel	1.179	1.310	PASS					
N/A	Middle Channel	1.192	1.324	PASS					
CO "	High Channel	1.177	1.311	PASS					

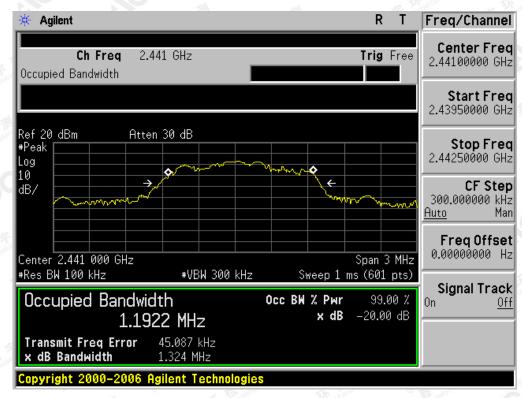
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



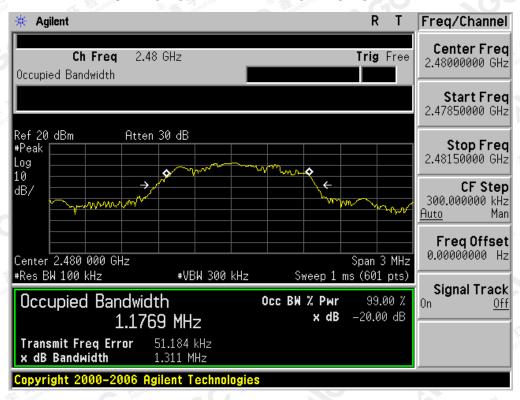
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 63

12. FCC LINE CONDUCTED EMISSION TEST

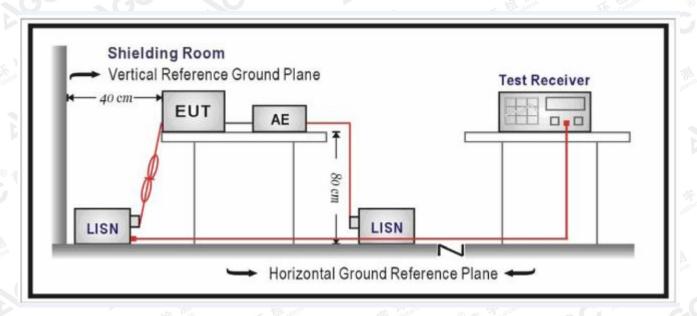
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage								
Frequency	Q.P.(dBuV)	Average(dBuV)								
150kHz~500kHz	66-56	56-46								
500kHz~5MHz	8 Age 12	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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Page 51 of 63

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.

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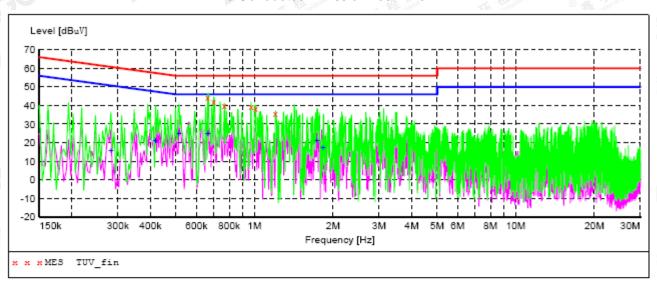


12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TUV fin"

2018-3-5 14:21 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				
0.662000 0.698000 0.766000 0.970000 1.010000 1.202000	44.10 42.10 39.90 39.20 38.60 35.90	0.2 0.2 0.2 0.2 0.2	56 56 56 56 56	11.9 13.9 16.1 16.8 17.4 20.1	QP QP QP QP QP QP	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO	ON ON ON ON

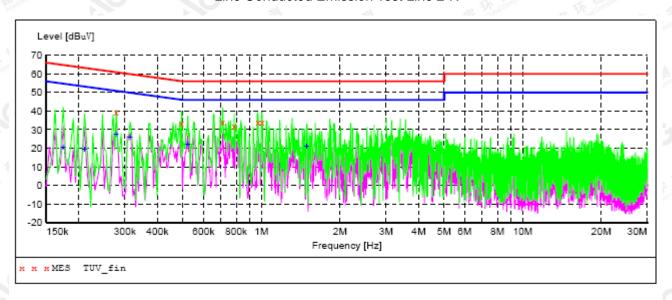
MEASUREMENT RESULT: "TUV fin2"

2018-3-5 14:21 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				DIALL
0.282000 0.418000 0.514000 0.662000 1.738000 1.834000	15.80 21.00 24.70 24.90 20.90 17.50	0.2 0.2 0.2 0.2 0.3	51 48 46 46 46 46	35.0 26.5 21.3 21.1 25.1 28.5	AV AV AV AV AV	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO	ON ON ON ON ON

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Line Conducted Emission Test Line 2-N



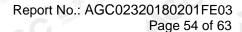
MEASUREMENT RESULT: "TUV fin"

2018-3-5 14:39 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				DIALL
0.278000 0.494000 0.710000 0.786000 0.970000 1.006000	39.60 33.50 34.00 32.10 34.30 34.30	0.2 0.2 0.2 0.2 0.2	61 56 56 56 56	21.3 22.6 22.0 23.9 21.7 21.7	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO	ON ON ON ON

MEASUREMENT RESULT: "TUV fin2"

2018-3-5 14:39 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				DIAIL
0.174000	20.30	0.2	55	34.5	AV	N	FLO	ON
0.210000	19.60	0.2	53	33.6	AV	N	FLO	ON
0.278000	27.70	0.2	51	23.2	AV	N	FLO	ON
0.314000	26.00	0.2	50	23.9	AV	N	FLO	ON
0.522000	22.00	0.2	46	24.0	AV	N	FLO	ON
1.490000	21.20	0.2	46	24.8	AV	N	FLO	ON

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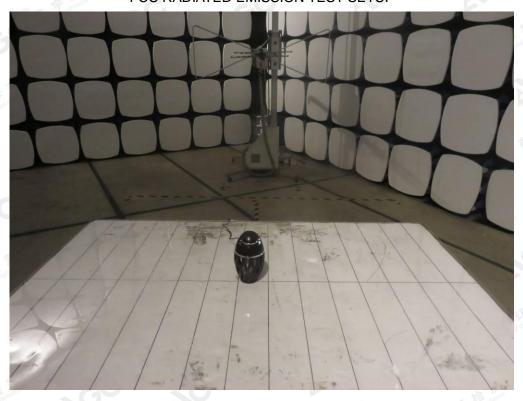


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

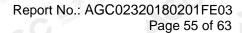


FCC RADIATED EMISSION TEST SETUP

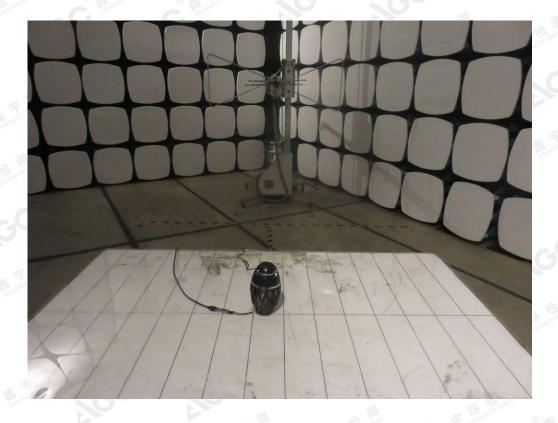


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Page 56 of 63

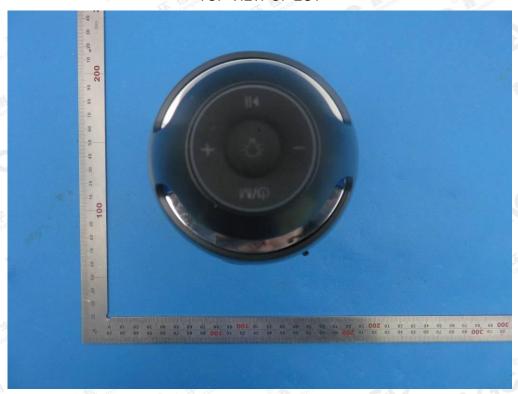


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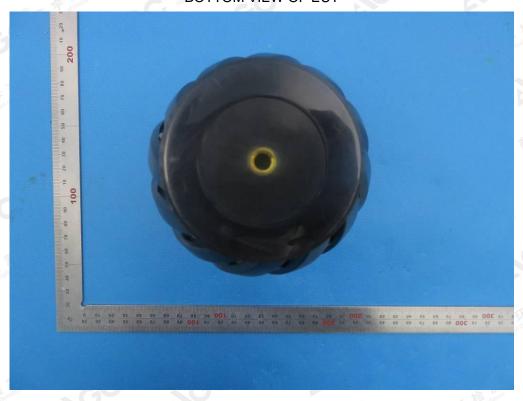


APPENDIX B: PHOTOGRAPHS OF EUT

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

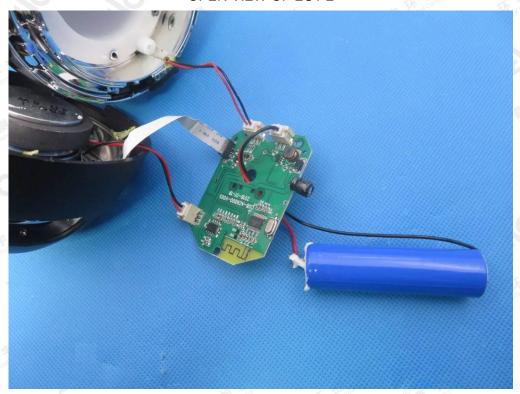


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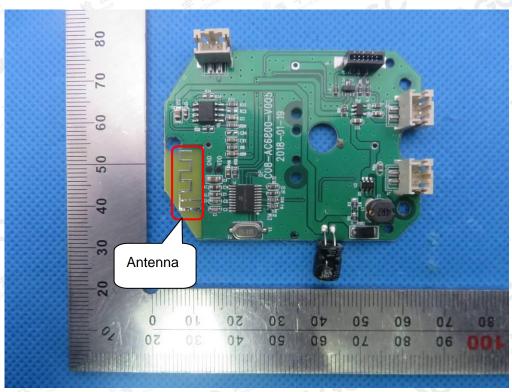
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OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1

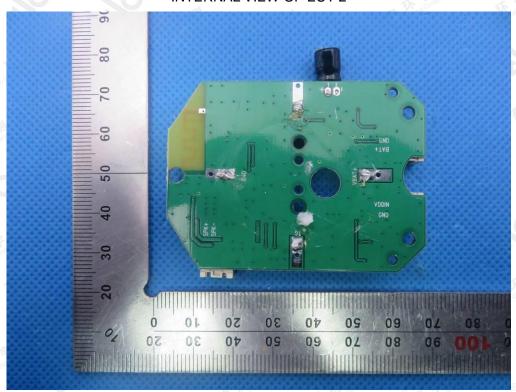


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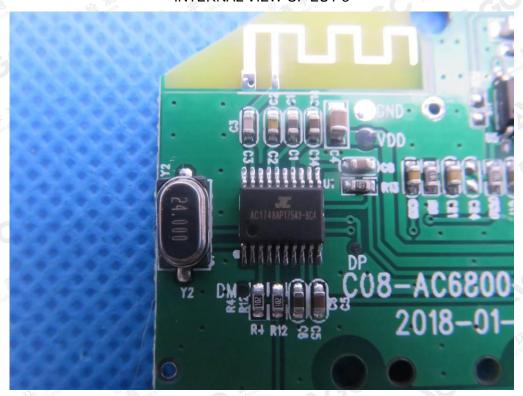
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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Page 63 of 63

@ 400 089 2118

VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

--END OF REPORT-

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