

FCC Test Report

Report No.: AGC00145180501FE03

FCC ID : V08-U2

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth headset

BRAND NAME : Bluedio

MODEL NAME : U2, T, V, BS, U, TS

CLIENT: GuangZhou LIWEI Electronics, LTD

DATE OF ISSUE : May 25, 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 65

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	pliance / ® ##	May 25, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.2. TABLE OF CARRIER FREQUENCYS	5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM5.2. EQUIPMENT USED IN EUT SYSTEM5.3. SUMMARY OF TEST RESULTS	8
6. TEST FACILITY	10
7. TEST METHOD	11
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1. TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12 13 15
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE11.2. TEST SET-UP11.3. LIMITS AND MEASUREMENT RESULTS	43
12. FCC LINE CONDUCTED EMISSION TEST	50
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50 51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	54
ADDENIDIY D. DUOTOCDADUS OF FUT	57



Page 4 of 65

1. VERIFICATION OF CONFORMITY

Applicant	GuangZhou LIWEI Electronics, LTD			
Address	No.33 Zhenzhong North Rd., ShenShan Ind. Park BaiYun District, GuangZhou GuangDong, China			
Manufacturer	GuangZhou LIWEI Electronics, LTD			
Address	No.33 Zhenzhong North Rd., ShenShan Ind. Park BaiYun District, GuangZhou GuangDong, China			
Product Designation	Bluetooth headset			
Brand Name	Bluedio			
Test Model	U2			
Series Model	T, V, BS, U, TS			
Difference Description	All the same except for the appearance color			
Date of test	May 08, 2018 to May 23, 2018			
Deviation	None Mone			
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	Tum Tuo	
Clobal Compiler (8) Alfasta	Tom Tuo (Tuo Dewei)	May 23, 2018
Reviewed By	and change	
® Managaron of Goods Com	Cool Cheng(Cheng Mengguo)	May 25, 2018
Approved By	Forrestoci	
	Forrest Lei(Lei Yonggang) Authorized Officer	May 25, 2018



Page 5 of 65

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	2.04dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	1.0
Software Version	1.0
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	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	Channel Number	Frequency		
NO I	0	2402MHz		
The Hallance	The state of the s	2403MHz		
© ## Julion of Ciobal Co.	CO CO			
30 m	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
Compliance © Mar Thomas Comm	40	2442 MHz		
GC TO CO				
	77	2479 MHz		
100	78	2480 MHz		



Page 6 of 65

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

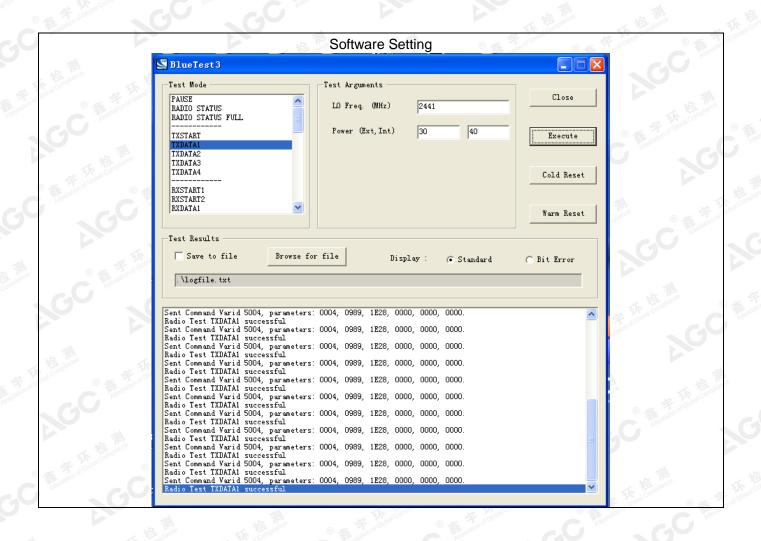
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1 The Completion	Low channel GFSK			
® # 2 ***	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 Th 100 Miles	Middle channel π /4-DQPSK			
6 md G	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.





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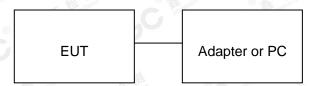


Page 8 of 65

5. SYSTEM TEST CONFIGURATION

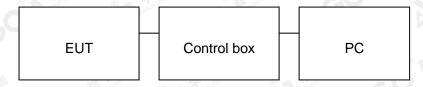
5.1. CONFIGURATION OF EUT SYSTEM

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	Bluetooth headset	Bluedio	CU2	EUT
2	Battery	HLY	583136	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	Adapter	HUAWEI	HW-05010002W	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	IPOD	APPLE	A1367	A.E



Page 9 of 65

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 65

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 65

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

		76.5	3665 AC	7 7 70 111	(B) A864
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 transfer of the second	Jun.20, 2017	Jun.19, 2018

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Page 12 of 65

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)	2					
0.490 ~ 1.705	30	24000/F(kHz)	电测 乐意					
1.705 ~ 30	30	30	See The second of the second o					
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 Maria Commission	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 65

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.
- 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 65

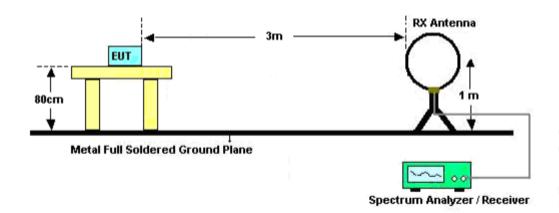
The following table is the setting of spectrum analyzer and receiver.

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

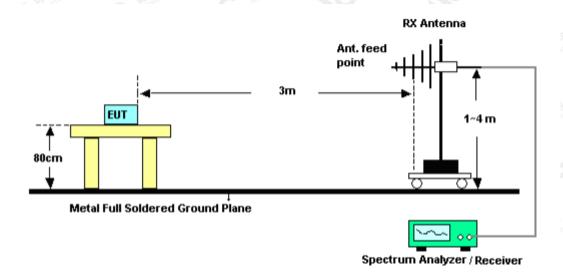


9.3. TEST SETUP

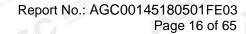
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

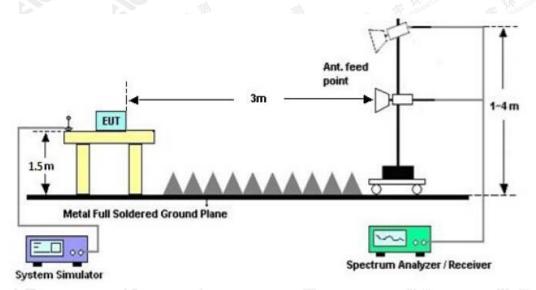


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 65

9.4. TEST RESULT

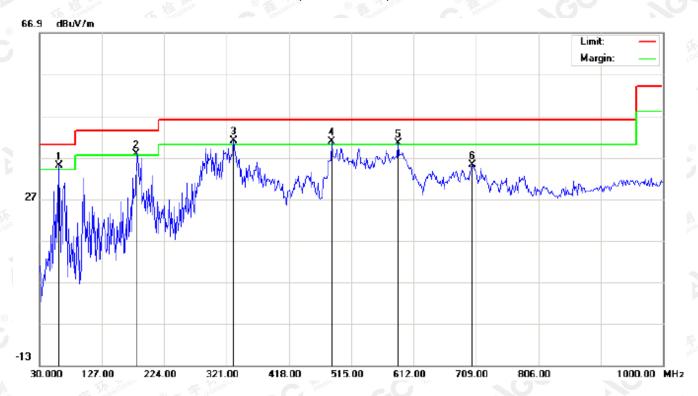
(Worst modulation: 8DPSK)

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



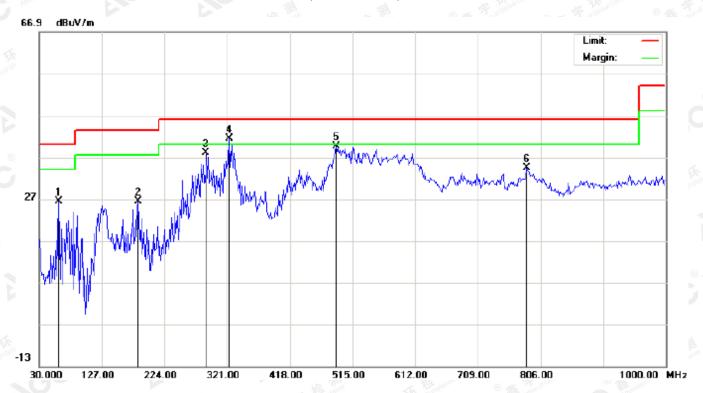
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	į	60.7167	33.82	1.20	35.02	40.00	-4.98	peak			
2	ļ	180.3500	26.66	11.09	37.75	43.50	-5.75	peak			
3	*	332.3167	23.52	17.56	41.08	46.00	-4.92	peak			
4	İ	484.2833	19.79	20.96	40.75	46.00	-5.25	peak			
5	İ	587.7500	16.92	23.42	40.34	46.00	-5.66	peak			
6		702.5333	9.87	25.29	35.16	46.00	-10.84	peak		·	

RESULT: PASS



Page 18 of 65

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



No.	Mk	Freq.	Reading	Factor	Measurement	rement Limit Over Detecto	Detector	Antenna Height	Table Degree	Comment	
Š	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		60.7167	18.48	7.87	26.35	40.00	-13.65	peak			
2		183.5833	13.34	13.16	26.50	43.50	-17.00	peak			
3		288.6666	22.93	15.07	38.00	46.00	-8.00	peak			
4	*	324.2333	24.37	17.02	41.39	46.00	-4.61	peak			
5		489.1333	18.66	21.01	39.67	46.00	-6.33	peak		·	
6		784.9833	7.34	27.11	34.45	46.00	-11.55	peak			

RESULT: PASS

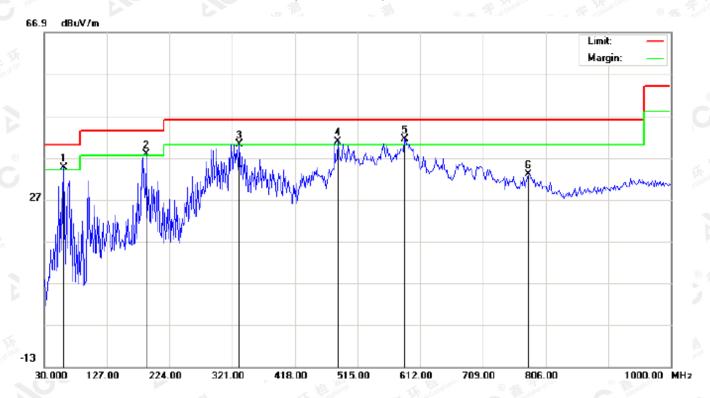
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 19 of 65

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



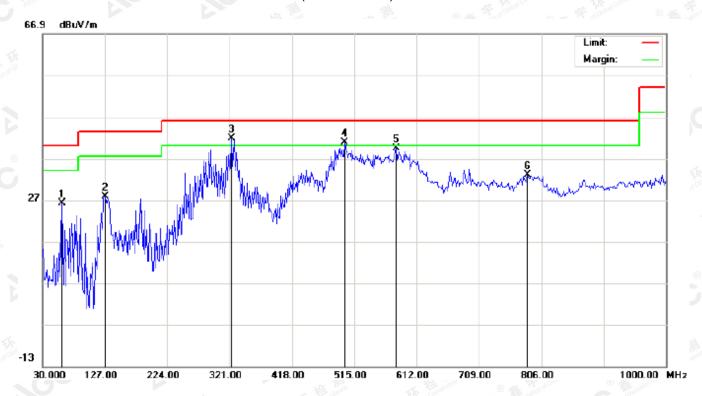
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1	ļ	60.7167	33.46	1.20	34.66	40.00	-5.34	peak			
2	İ	188.4333	26.28	11.46	37.74	43.50	-5.76	peak			
3	ļ	332.3167	22.73	17.56	40.29	46.00	-5.71	peak			
4	İ	484.2833	19.94	20.96	40.90	46.00	-5.10	peak			
5	*	587.7500	17.92	23.42	41.34	46.00	-4.66	peak			
6		780.1332	5.97	27.05	33.02	46.00	-12.98	peak			_

RESULT: PASS



Page 20 of 65

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		60.7167	18.40	7.87	26.27	40.00	-13.73	peak			
2		127.0000	18.12	9.78	27.90	43.50	-15.60	peak			
3	*	324.2333	24.71	17.02	41.73	46.00	-4.27	peak			
4	İ	500.4500	19.57	21.14	40.71	46.00	-5.29	peak			
5		579.6667	16.87	22.63	39.50	46.00	-6.50	peak			
6		784.9833	5.82	27.11	32.93	46.00	-13.07	peak			

RESULT: PASS

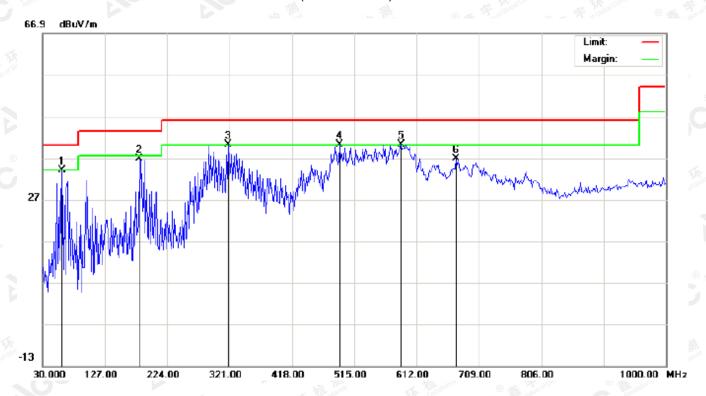
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 21 of 65

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



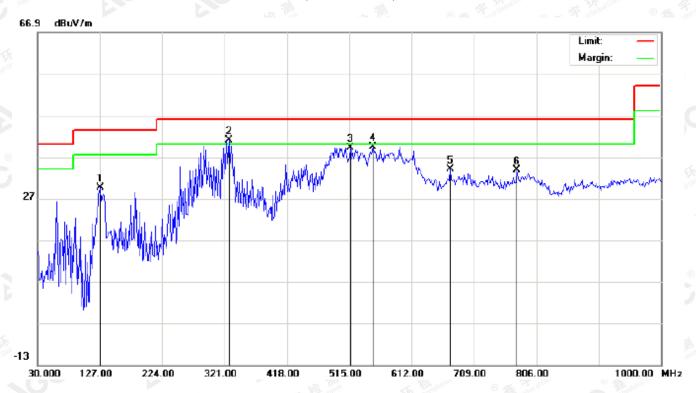
No	. M	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ę l	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm degree		
1	į	60.7167	32.83	1.20	34.03	40.00	-5.97	peak			
2		180.3500	25.67	11.09	36.76	43.50	-6.74	peak			
3	į	319.3833	23.47	16.70	40.17	46.00	-5.83	peak			
4	ļ	492.3667	19.16	21.05	40.21	46.00	-5.79	peak			
5	*	587.7500	16.80	23.42	40.22	46.00	-5.78	peak			
6		673.4333	12.28	24.49	36.77	46.00	-9.23	peak			

RESULT: PASS



Page 22 of 65

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



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		127.0000	19.75	9.78	29.53	43.50	-13.97	peak			
2	*	327.4667	23.69	17.24	40.93	46.00	-5.07	peak			
3		516.6167	17.56	21.58	39.14	46.00	-6.86	peak			
4		552.1833	16.99	22.49	39.48	46.00	-6.52	peak			
5		671.8167	9.55	24.43	33.98	46.00	-12.02	peak			
6		775.2833	6.79	26.98	33.77	46.00	-12.23	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.



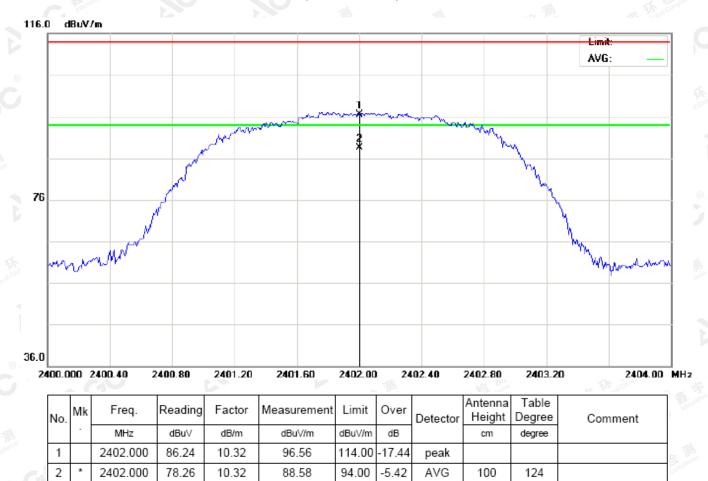
Page 23 of 65

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: 8DPSK)

For Fundamental

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

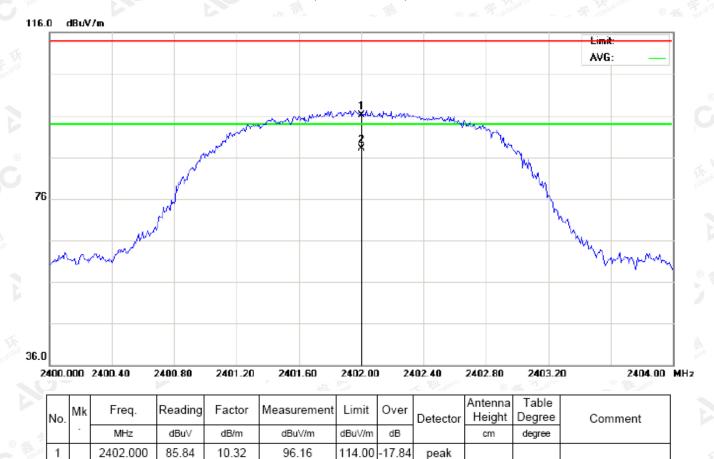


RESULT. PASS



Page 24 of 65

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



94.00

AVG

100

331

RESULT: PASS

2

2402.000

77.78

10.32

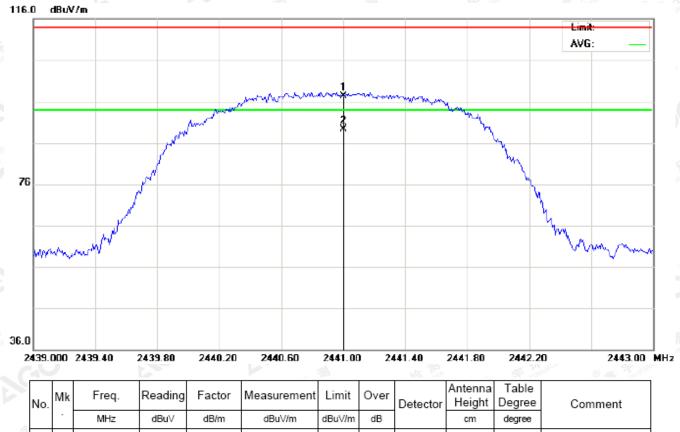
88.10

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Page 25 of 65

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
101	1		2441.000	86.88	10.36	97.24	114.00	-16.76	peak			
	2	*	2441.000	78.88	10.36	89.24	94.00	-4.76	AVG	100	128	

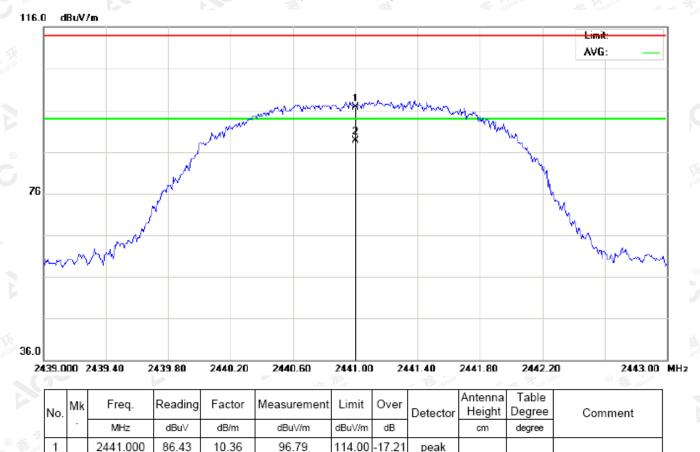
RESULT: PASS

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Page 26 of 65

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



94.00

-5.31

AVG

100

329

RESULT: PASS

2441.000

78.33

10.36

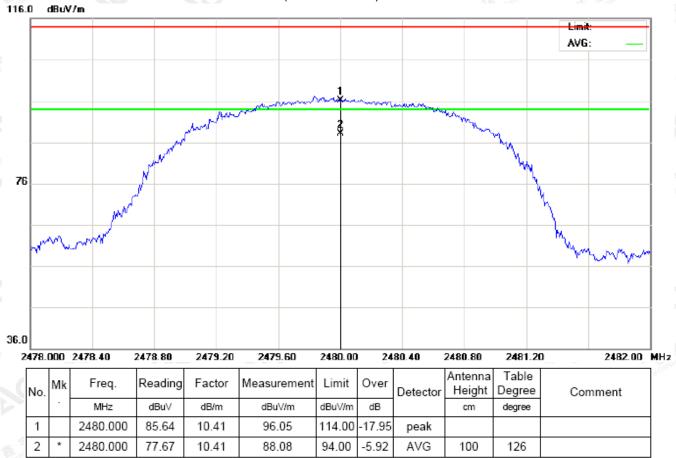
88.69

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Page 27 of 65

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



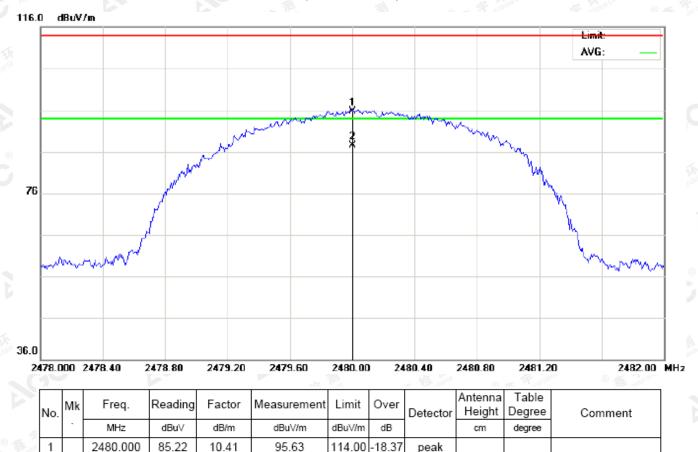
RESULT: PASS

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Page 28 of 65

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



RESULT: PASS

2480.000

77.13

10.41

2

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

87.54

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

94.00

-6.46

AVG

100

334

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Page 29 of 65

Field strength of the fundamental signal

3Mbps Result:

Peak value

Frequency	Reading Level	- Factor Weastirement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.24	10.32	96.56	114	-17.44	Horizontal	
2402	85.84	10.32	96.16	114	-17.84	Vertical	
2441	86.88	10.36	97.24	114	16.76	Horizontal	
2441	86.43	10.36	96.79	114	-17.21	Vertical	
2480	85.64	10.41	96.05	114	-17.95	Horizontal	
2480	85.22	10.41	95.63	114	-18.37	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.26	10.32	88.58	94	-5.42	Horizontal	
2402	77.78	10.32	88.10	94	-5.90	Vertical	
2441	78.88	10.36	89.24	94	-4.76	Horizontal	
2441	78.33	10.36	88.69	94	-5.31	Vertical	
2480	77.67	10.41	88.08	94	-5.92	Horizontal	
2480	77.13	10.41	87.54	94	-6.46	Vertical	



Page 30 of 65

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	85.88	10.32	96.20	114	-17.80	Horizontal	
2402	85.48	10.32	95.80	114	-18.20	Vertical	
2441	86.52	10.36	96.88	114	-17.12	Horizontal	
2441	85.98	10.36	96.34	114	-17.66	Vertical	
2480	85.19	10.41	95.60	114	-18.40	Horizontal	
2480	84.77	10.41	95.18	114	-18.82	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.79	10.32	88.11	94	-5.89	Horizontal	
2402	402 77.28 10.32		87.60	94	-6.40	Vertical	
2441	78.53	10.36	88.89	94	-5.11	Horizontal	
2441	77.98	10.36	88.34	94	-5.66	Vertical	
2480	77.37	10.41	87.78	94	-6.22	Horizontal	
2480	76.79	10.41	87.20	94	-6.80	Vertical	



Page 31 of 65

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402 85.55 10.		10.32	95.87	114	-18.13	Horizontal	
2402	85.14	10.32	95.46	114	-18.54	Vertical	
2441	86.06	10.36	96.42	114	-17.58	Horizontal	
2441	85.63	10.36	95.99	114	-18.01	Vertical	
2480	84.80	10.41	95.21	114	-18.79	Horizontal	
2480	84.46	10.41	94.87	114	-19.13	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.35	10.32	87.67	94	-6.33	Horizontal	
2402	77.05 10.32		87.37	94	-6.63	Vertical	
2441	78.17	10.36	88.53	94	-5.47	Horizontal	
2441	77.65	10.36	88.01	94	-5.99	Vertical	
2480	76.80	10.41	87.21	94	-6.79	Horizontal	
2480	76.47	10.41	86.88	94	-7.12	Vertical	

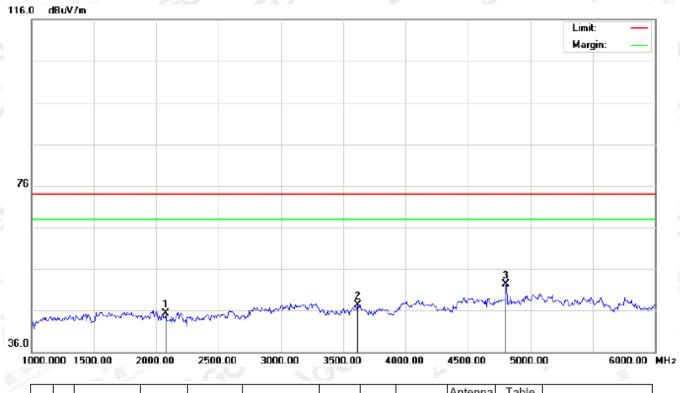


Page 32 of 65

(Worst modulation: 8DPSK)

For Harmonics

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



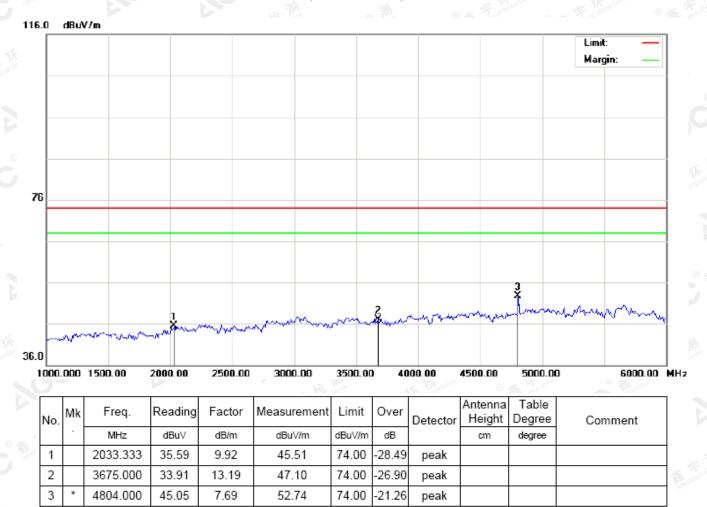
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2075.000	35.42	9.96	45.38	74.00	-28.62	peak			
2		3616.667	34.55	12.83	47.38	74.00	-26.62	peak			
3	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak		·	

RESULT: PASS



Page 33 of 65

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



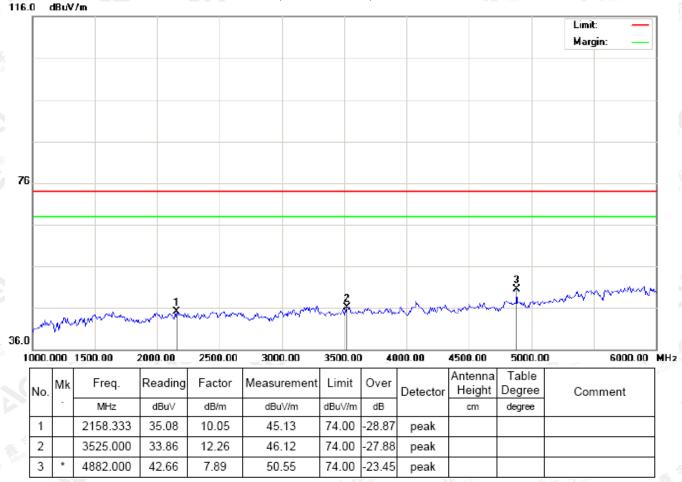
RESULT: PASS

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Page 34 of 65

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



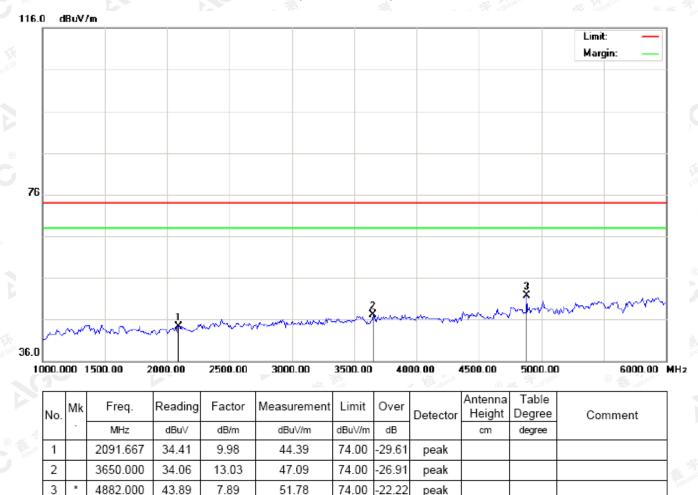
RESULT: PASS

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Page 35 of 65

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



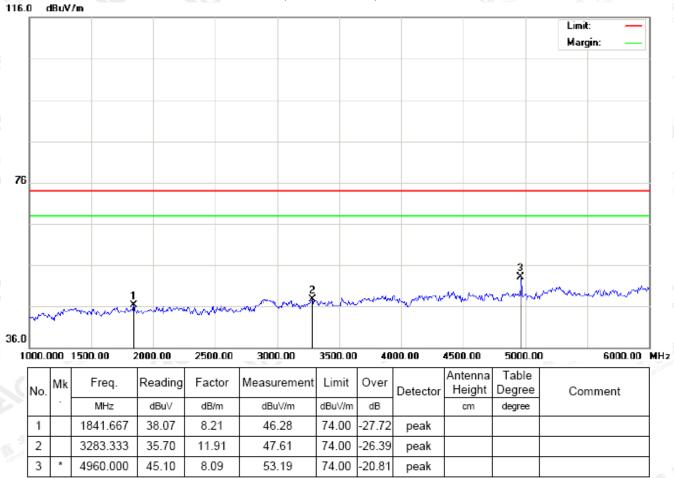
RESULT: PASS

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Page 36 of 65

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



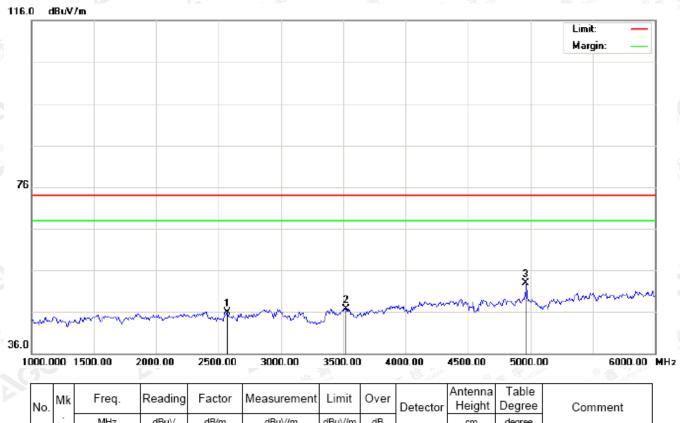
RESULT: PASS

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Page 37 of 65

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ğ	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		
stat	1		2566.667	35.29	10.59	45.88	74.00	-28.12	peak			
	2		3525.000	34.52	12.26	46.78	74.00	-27.22	peak			
	3	*	4960.000	44.91	8.09	53.00	74.00	-21.00	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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Page 38 of 65

10. BAND EDGE EMISSION

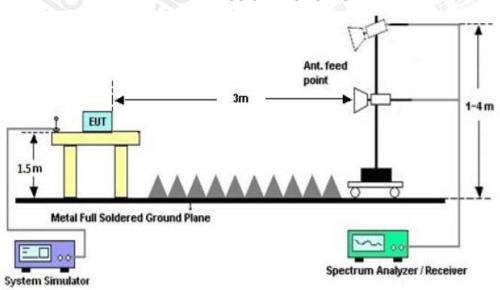
10.1. MEASUREMENT PROCEDURE

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

	Start frequenc	y(MHz)		Stop frequency(MHz)				
	2200	Kamphares	The Compline	® Agation of Glo	2405	1GO		
(S) ### (1)	2478	3lobal C	testation of Glob	,O .	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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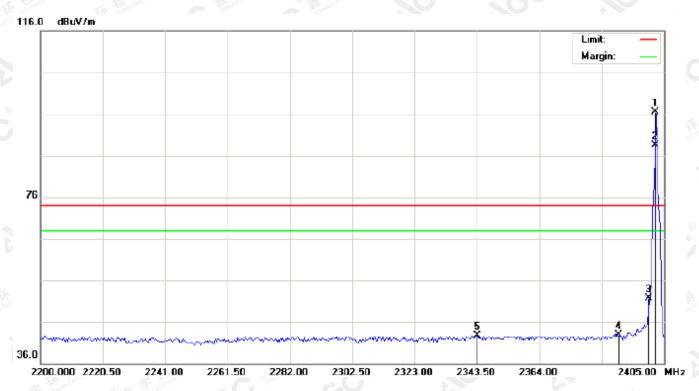


Page 39 of 65

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	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2402.000	86.24	10.32	96.56	74.00	22.56	peak			
2	Х	2402.000	78.26	10.32	88.58	74.00	14.58	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
5		2343.500	32.44	10.26	42.70	74.00	-31.30	AVG	100	136	

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Page 40 of 65

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
\$	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2402.000	85.84	10.32	96.16	74.00	22.16	peak			
2	Х	2402.000	77.76	10.32	88.08	74.00	14.08	peak			
3		2400.000	37.06	10.32	47.38	74.00	-26.62	peak			
4		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
5		2349.991	31.80	10.26	42.06	74.00	-31.94	AVG	100	325	

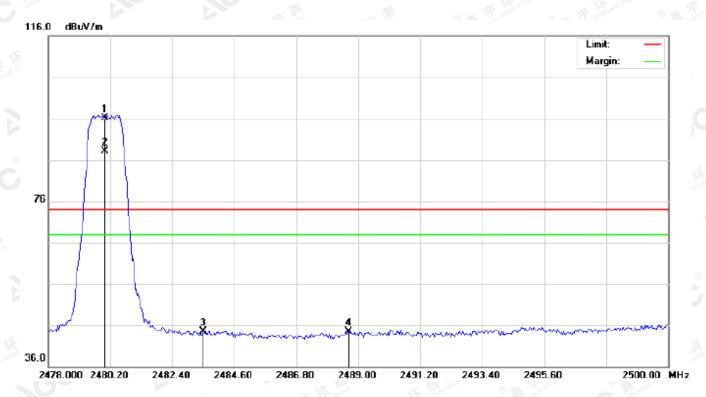
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Page 41 of 65

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	
1	*	2480.000	85.64	10.41	96.05	74.00	22.05	peak			
2	Х	2480.000	77.69	10.41	88.10	74.00	14.10	AVG	100	135	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2488.670	34.15	10.42	44.57	74.00	-29.43	peak			

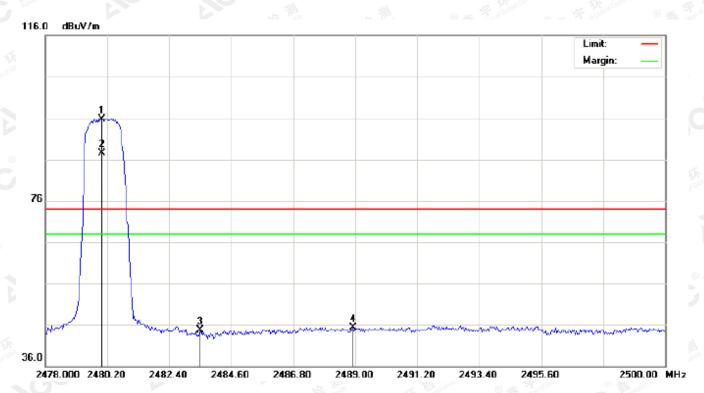
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Page 42 of 65

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Antenna Detector Height		Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.22	10.41	95.63	74.00	21.63	peak			
2	Х	2480.000	77.13	10.41	87.54	74.00	13.54	AVG	100	323	
3		2483.500	34.26	10.41	44.67	74.00	-29.33	peak			
4		2488.927	34.84	10.42	45.26	74.00	-28.74	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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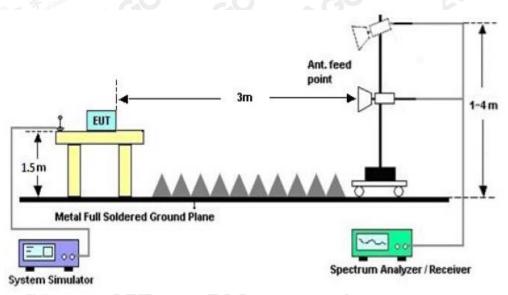
Page 43 of 65

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

		WE " 48		6101					
BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result								
Applicable Limits		5 4							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The the tenter of the tenter o	Low Channel	0.940	1.102	PASS					
N/A	Middle Channel	0.929	1.097	PASS					
100	High Channel	0.917	1.095	PASS					

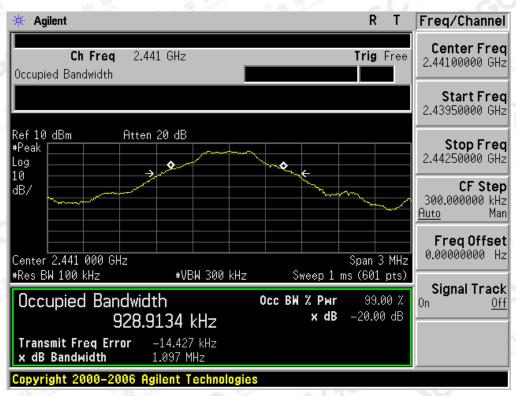
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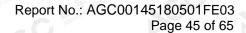
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

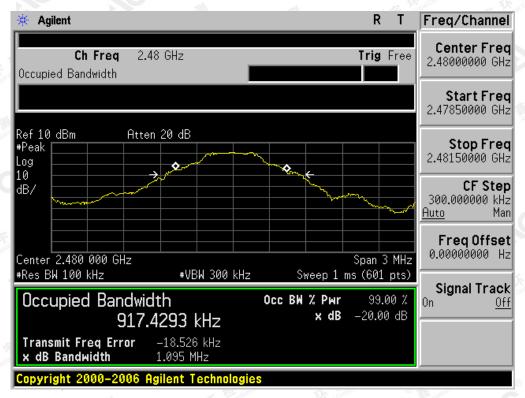


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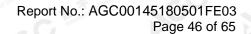


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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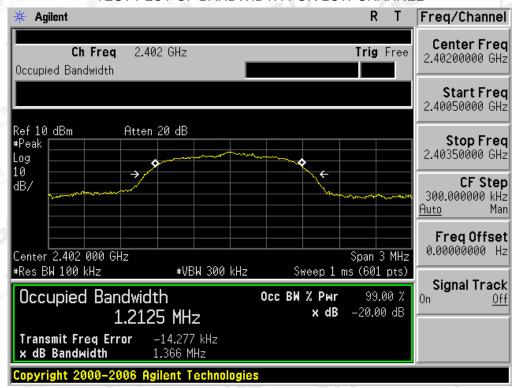
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.213 **PASS** 1.366 1.206 **PASS** Middle Channel 1.360 **PASS High Channel** 1.206 1.367

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

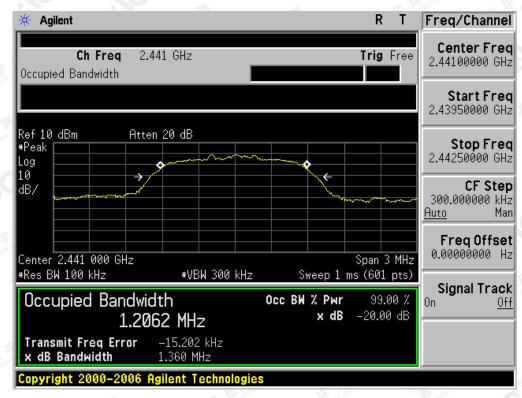


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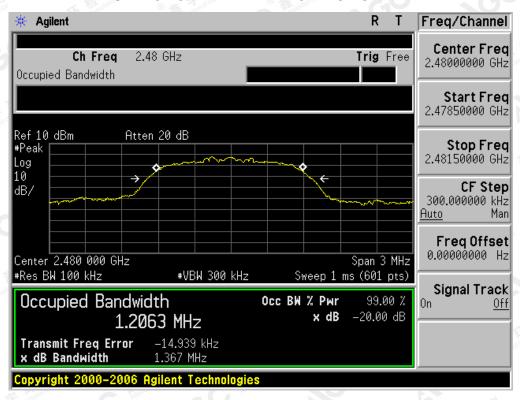
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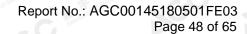
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



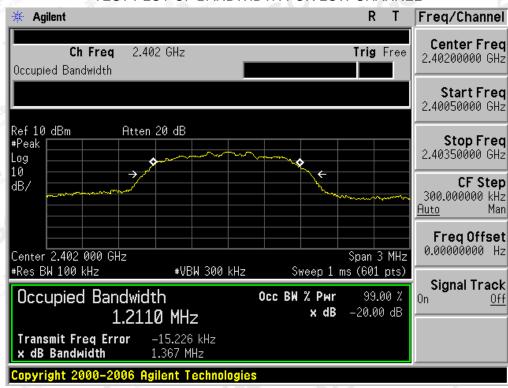
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.211 **PASS** 1.367 **PASS** Middle Channel 1.223 1.376 **PASS High Channel** 1.219 1.357

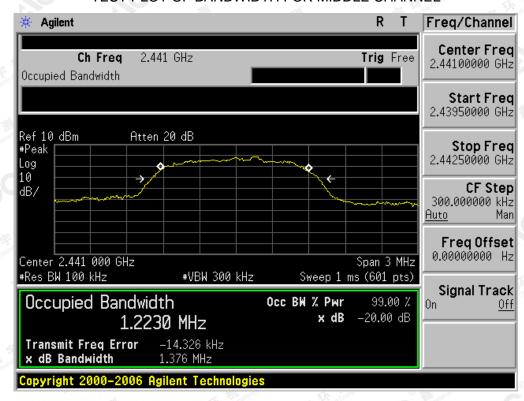
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



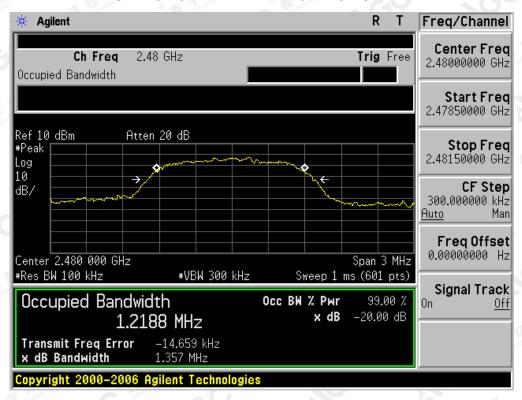
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 65

12. FCC LINE CONDUCTED EMISSION TEST

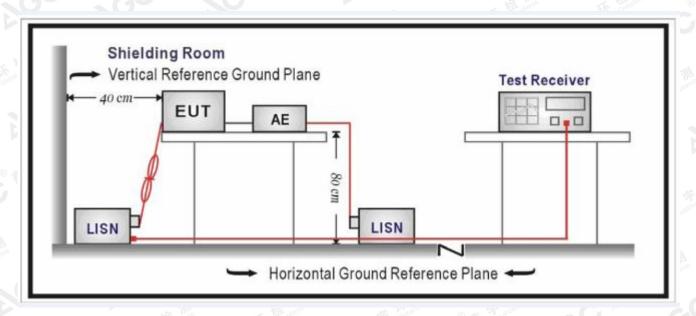
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage								
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 Age 15	A6							
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 65

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.

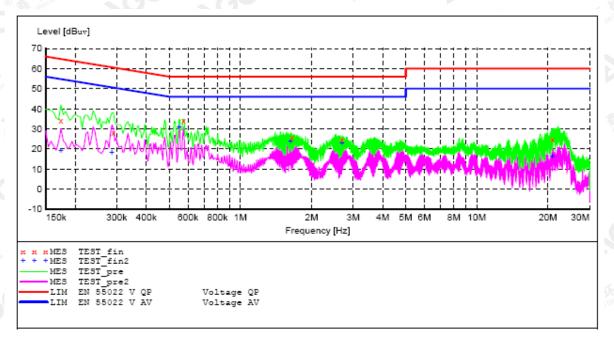
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

2018/5/	23 14:	44						
Fred	quency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.1	74000	34.20	10.0	65	30.6	QP	L1	FLO
0.2	290000	28.00	10.1	61	32.5	QP	L1	FLO
0.5	74000	34.30	9.9	56	21.7	QP	L1	FLO
1.6	54000	25.60	10.0	56	30.4	QP	L1	FLO
2.6	86000	25.00	9.9	56	31.0	QP	L1	FLO
20.8	82000	24.60	9.6	60	35.4	QP	L1	FLO

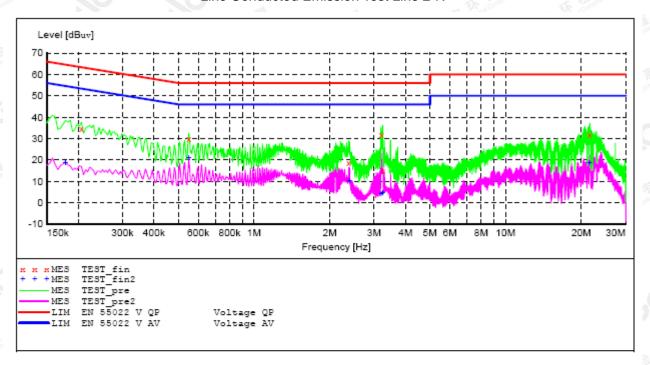
MEASUREMENT RESULT: "TEST fin2"

2018/5/	/23 14:4	4						
Fred	quency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.3	174000	19.00	10.0	55	35.8	AV	L1	FLO
0.2	286000	18.40	10.1	51	32.2	AV	L1	FLO
0.5	550000	31.10	9.9	46	14.9	AV	L1	FLO
1.6	630000	24.10	10.0	46	21.9	AV	L1	FLO
2.6	686000	23.00	9.9	46	23.0	AV	L1	FLO
20.8	362000	16.40	9.6	50	33.6	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



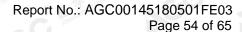
MEASUREMENT RESULT: "TEST fin"

2018/5/23 14: Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.206000 0.550000 2.378000 3.198000 3.246000 21.562000	34.50 30.00 18.90 31.80 14.80 31.70	10.1 9.9 9.9 9.9 10.0 9.7	63 56 56 56 56	28.9 26.0 37.1 24.2 41.2 28.3	QP QP QP QP QP OP	N N N N N	FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "TEST fin2"

2018/5/23 14	:38						
Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.178000	18.60	10.0	55	36.0	AV	N	FLO
0.550000	21.20	9.9	46	24.8	AV	N	FLO
2.394000	10.50	9.9	46	35.5	AV	N	FLO
3.198000	4.10	9.9	46	41.9	AV	N	FLO
3.246000	4.60	10.0	46	41.4	AV	N	FLO
21.562000	18.60	9.7	50	31.4	AV	N	FLO

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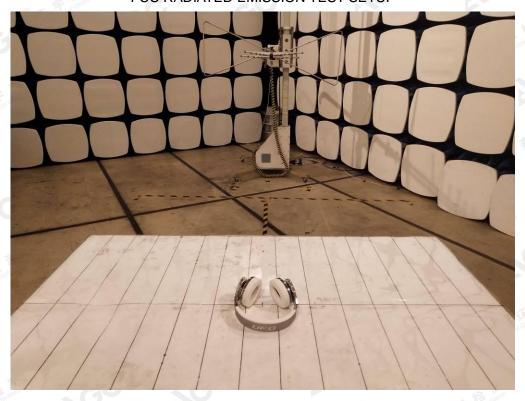


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



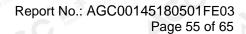
FCC RADIATED EMISSION TEST SETUP



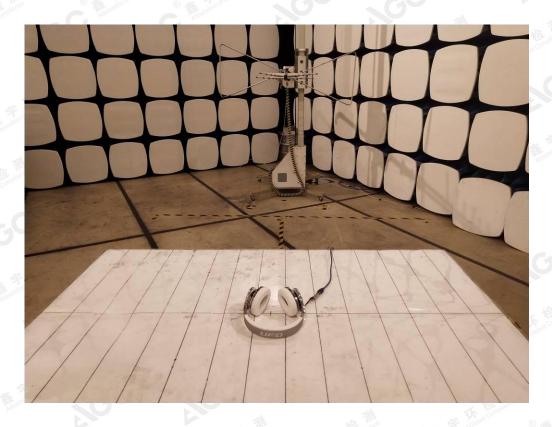
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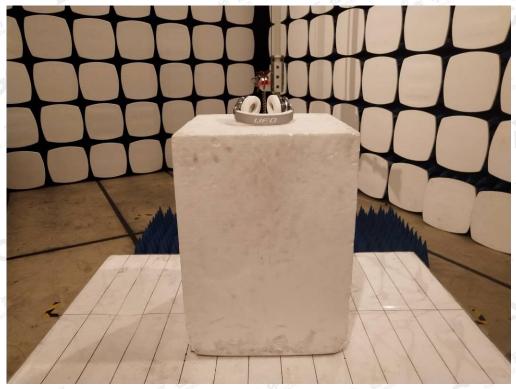
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Page 56 of 65



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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)-1



VIEW OF EUT (PORT)-2



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OPEN VIEW OF EUT



VIEW OF BATTERY

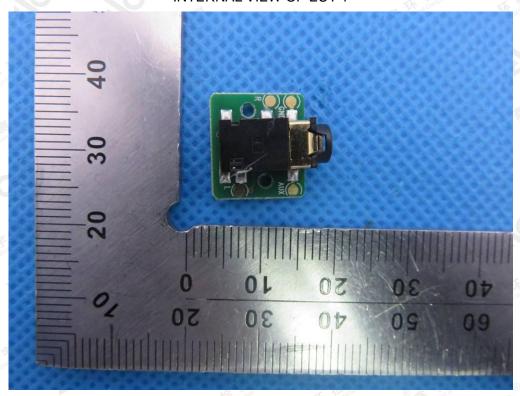


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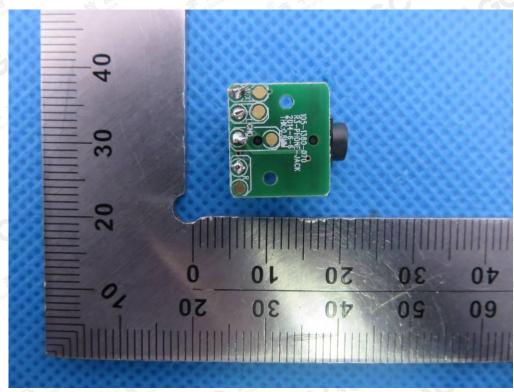
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INTERNAL VIEW OF EUT-2

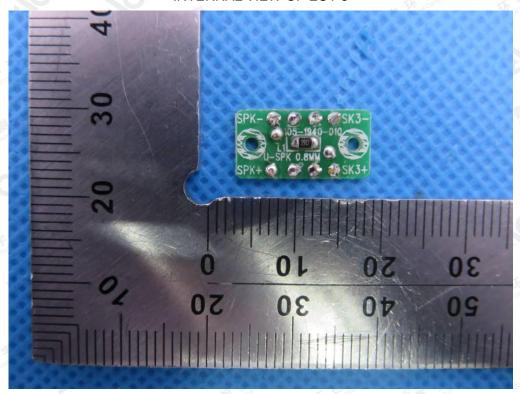


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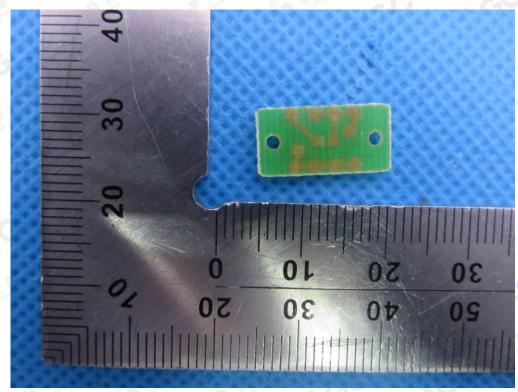
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INTERNAL VIEW OF EUT-4

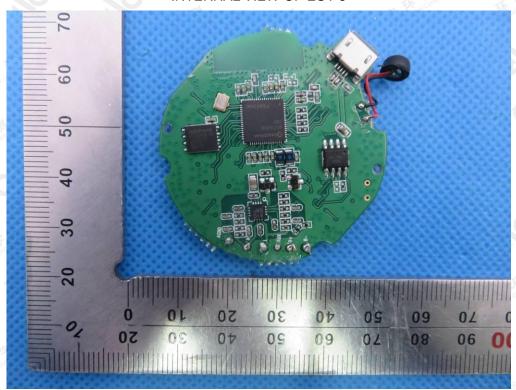


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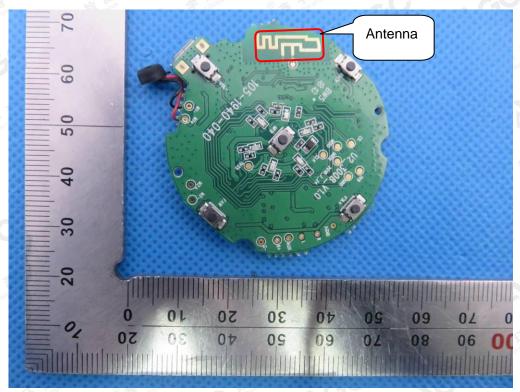
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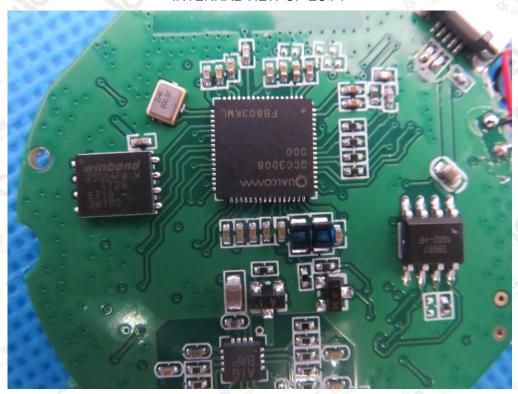
INTERNAL VIEW OF EUT-6



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VIEW OF ADAPTER (AE)



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----END OF REPORT----

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