

FCC Test Report

Report No.: AGC01132180654FE03

FCC ID : 2AFN5-TR-HS001

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Helmet Speaker

BRAND NAME : N/A

MODEL NAME : TR-HS001

CLIENT : 4 Sizzle Inc

DATE OF ISSUE : July 09, 2018

STANDARD(S)

TEST PROCEDURE(S)

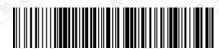
: FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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



Page 2 of 65

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	So The second se	July 09, 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



age 4 of 65

1. VERIFICATION OF CONFORMITY

Applicant	4 Sizzle Inc
Address	PO Box 4470, stateline NV 89449
Manufacturer	JIAXING TR-TECHNOLOGY CO., LTD
Address	Floor 2nd, build one, No. 868, Junli Road, Chengnan Industry District Jiaxing, Zhejiang, China
Product Designation	Helmet Speaker
Brand Name	N/A
Test Model	TR-HS001
Reference No	NL1LT061256
Date of test	June 20, 2018 to July 04, 2018
Deviation	None San Annual Control of the Contr
Condition of Test Sample	Normal San Command
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By	Honry Zhang	
超测器	Henry Zhang(Zhang Zhuorui)	July 04, 2018
Reviewed By	and change	
	Cool Cheng(Cheng Mengguo)	July 09, 2018
Approved By	Lowesto ei	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Forrest Lei(Lei Yonggang) Authorized Officer	July 09, 2018

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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
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V2.0
Software Version	V4.00
Antenna Designation	PCB Antenna
Antenna Gain	1.3dBi
Power Supply	DC 7.4V by battery
Charging voltage(by adapter)	Model name: WT12-0901200-U INPUT:100-240~ 50-60Hz 1.6A OUTPUT: 9.0V==-1.2A

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
	O The Committee	2402MHz
The things of the state of the	The state of the s	2403MHz
Republic of Clark Control of Auto	CO SO	
GO YOU	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
And Completion of Comm	40	2442 MHz
	77	2479 MHz
The manufacture of the second	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

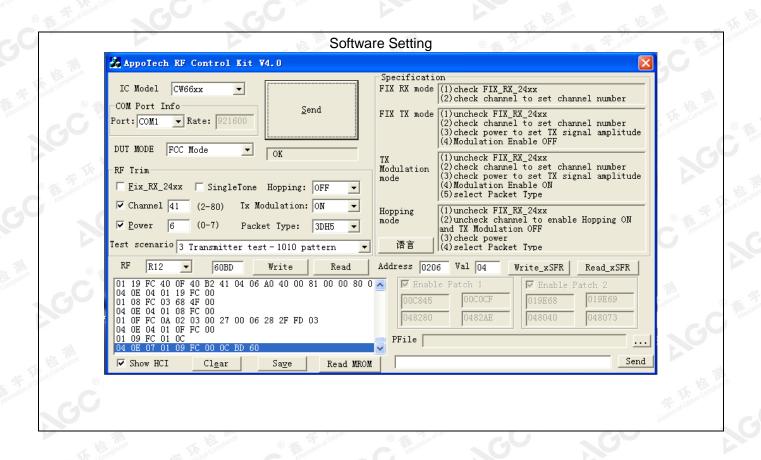
4. DESCRIPTION OF TEST MODES

TEST MODE DESCRIPTION			
Low channel GFSK			
Middle channel GFSK			
High channel GFSK			
Low channel π /4-DQPSK			
Middle channel π /4-DQPSK			
High channel π /4-DQPSK			
Low channel 8DPSK			
Middle channel 8DPSK			
High channel 8DPSK			
BT Link with charging			
BT Link(Hopping mode)			

Note

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





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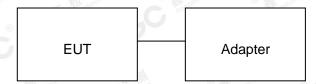


Page 8 of 65

5. SYSTEM TEST CONFIGURATION

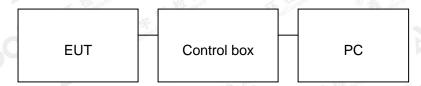
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and testing may be performed while adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Helmet Speaker	JIAXING	TR-HS001	EUT
2	Battery	XinPeng	WGP7.4/2.2	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	Adapter	WenTong	WT12-0901200-U	Accessory
6	USB Cable	N/A 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

Part of the second of the seco	
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 70111	(B) A864
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The Compliance	Jun.20, 2018	Jun.19, 2019

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Page 12 of 65

9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (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)	吃那			
1.705 ~ 30	30	30	E Solution of Global			
30 ~ 88	3	100	40.0			
88 ~ 216	3 6	150	43.5			
216 ~ 960	3	200	46.0			
960 ~ 1000	3	500	54.0			
Above 1000	3 T. GO	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

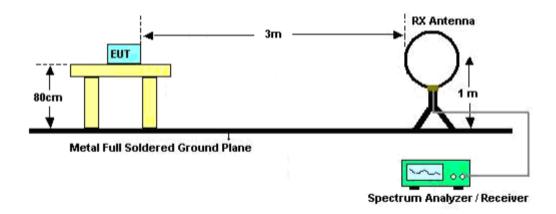
The following table is the setting of spectrum analyzer and receiver.

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

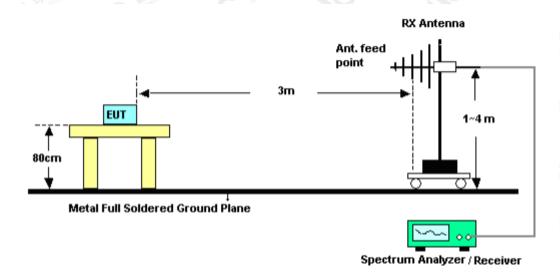


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



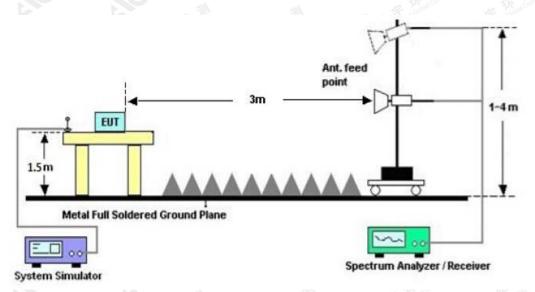
RADIATED EMISSION TEST SETUP 30MHz-1000MHz







RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 65

9.4. TEST RESULT

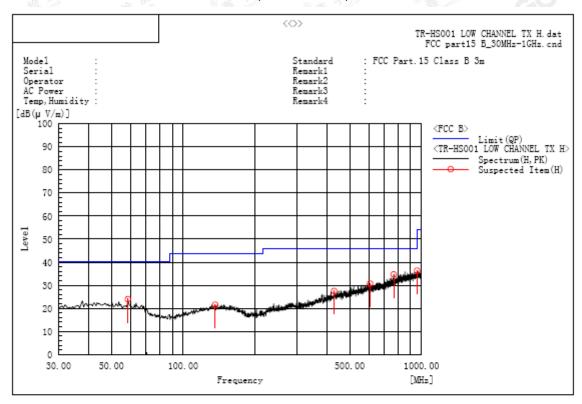
(Worst modulation: GFSK)

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



A. Suspected List:

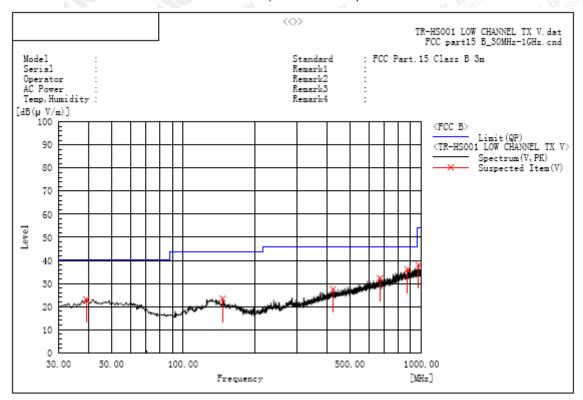
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
58.615	H	7.6	16.4	24.0	40.0	16.0	Pass	150.0	181.7
958.290	Н	5.6	30.7	36.3	46.0	9.7	Pass	200.0	91.3
764.290	Н	6.8	27.9	34.7	46.0	11.3	Pass	150.0	288.9
608.605	Н	5.6	25.1	30.7	46.0	15.3	Pass	150.0	39.6
430.125	Н	5.8	21.7	27.5	46.0	18.5	Pass	100.0	70.0
136.215	Н	5.0	16.6	21.6	43.5	21.9	Pass	100.0	288.0

RESULT: PASS



Page 18 of 65

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



A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	39.215	V	5.7	17.4	23.1	40.0	16.9	Pass	150.0	289.5
Г	146.400	V	6.9	16.6	23.5	43.5	20.0	Pass	150.0	74.2
	425.275	v	5.9	21.6	27.5	46.0	18.5	Pass	200.0	144.1
	669.230	V	6.4	25.9	32.3	46.0	13.7	Pass	150.0	182.4
3/1	872.930	V	6.1	29.9	36.0	46.0	10.0	Pass	100.0	93.7
	973.325	V	7.1	30.9	38.0	54.0	16.0	Pass	100.0	93.7

RESULT: PASS

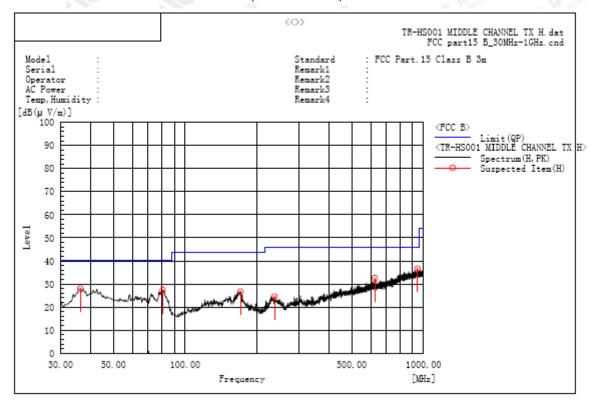
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



A. Suspected List:

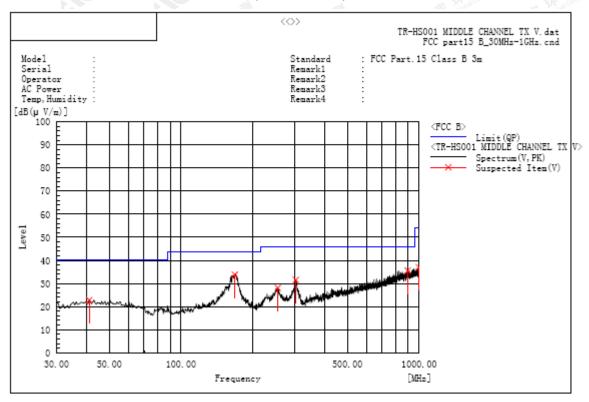
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	36.305	H	11.4	16.6	28.0	40.0	12.0	Pass	150.0	288.4
	80.440	Н	15.1	12.3	27.4	40.0	12.6	Pass	200.0	35.3
	170.650	Н	11.0	15.8	26.8	43.5	16.7	Pass	100.0	91.6
6	237.095	Н	8.4	16.1	24.5	46.0	21.5	Pass	150.0	107.5
31/	624.610	Н	7.2	25.3	32.5	46.0	13.5	Pass	200.0	216.8
	944.710	Н	6.0	30.6	36.6	46.0	9.4	Pass	100.0	91.6

RESULT: PASS



Page 20 of 65

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.155	V	5.4	17.4	22.8	40.0	17.2	Pass	150.0	144.0
168.225	V	17.7	16.1	33.8	43.5	9.7	Pass	200.0	92.9
255.040	V	12.1	16.0	28.1	46.0	17.9	Pass	100.0	287.9
303.540	V	14.1	17.5	31.6	46.0	14.4	Pass	200.0	92.9
895.725	V	5.5	30.1	35.6	46.0	10.4	Pass	100.0	215.2
997.575	V	6.0	31.1	37.1	54.0	16.9	Pass	100.0	142.0

RESULT: PASS

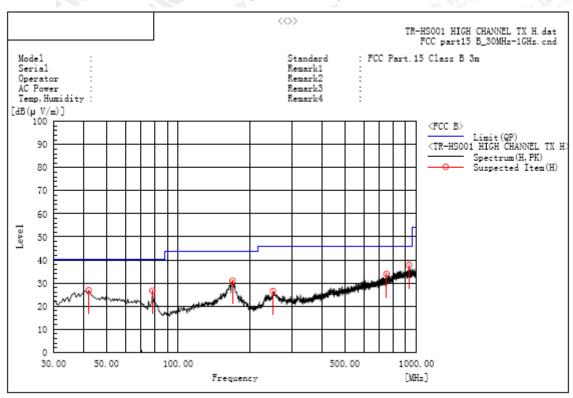
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



A. Suspected List:

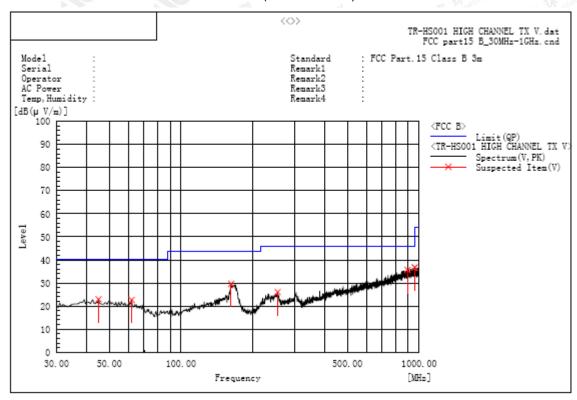
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	H	9.5	17.4	26.9	40.0	13.1	Pass	200.0	93.9
78.015	H	14.3	12.4	26.7	40.0	13.3	Pass	200.0	93.9
169.195	H	15.0	16.0	31.0	43.5	12.5	Pass	150.0	254.5
250.190	Н	10.4	16.1	26.5	46.0	19.5	Pass	200.0	93.9
748.285	H	6.5	27.5	34.0	46.0	12.0	Pass	150.0	5.2
931.130	H	7.3	30.5	37.8	46.0	8.2	Pass	200.0	93.9

RESULT: PASS



Page 22 of 65

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



A. Suspected List:

	quency VIHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
4:	5.035	v	5.7	17.3	23.0	40.0	17.0	Pass	100.0	92.6
62	2.010	V	6.7	16.0	22.7	40.0	17.3	Pass	150.0	287.8
16	2.405	v	13.1	16.6	29.7	43.5	13.8	Pass	100.0	92.6
25	4.555	v	10.1	16.0	26.1	46.0	19.9	Pass	150.0	144.6
89	3.785	V	5.5	30.1	35.6	46.0	10.4	Pass	200.0	147.2
95	8.775	v	6.1	30.7	36.8	46.0	9.2	Pass	200.0	288.9

RESULT: PASS

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

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



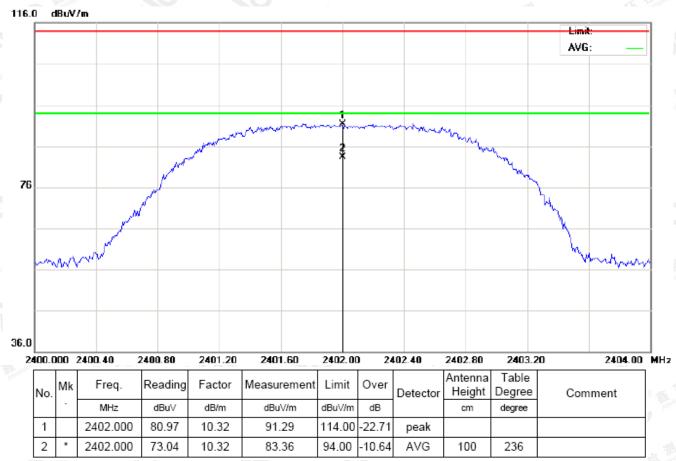
Page 23 of 65

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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

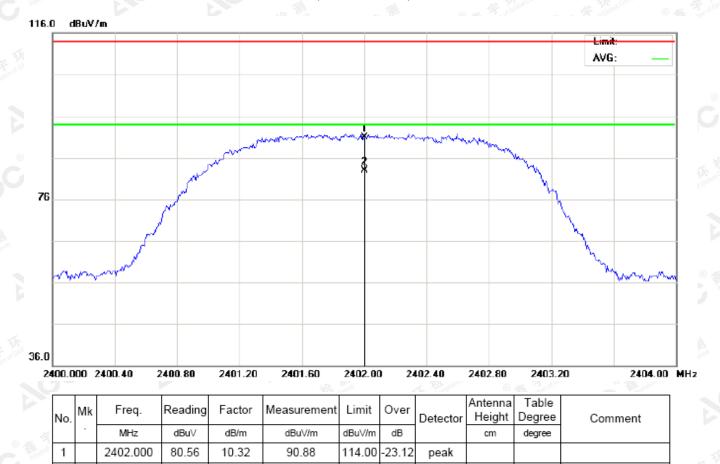


RESULT: PASS



Page 24 of 65

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



94.00

-11.12

AVG

100

103

RESULT: PASS

2402.000

72.56

10.32

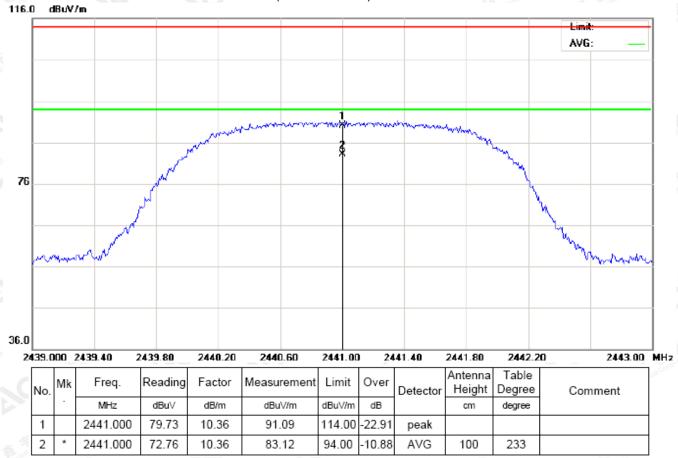
82.88

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Page 25 of 65

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



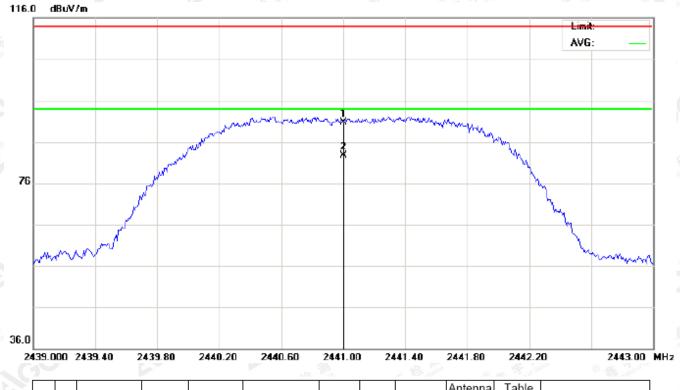
RESULT: PASS

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Page 26 of 65

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ā l	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	80.31	10.36	90.67	114.00	-23.33	peak			
2	*	2441.000	72.25	10.36	82.61	94.00	-11.39	AVG	100	102	

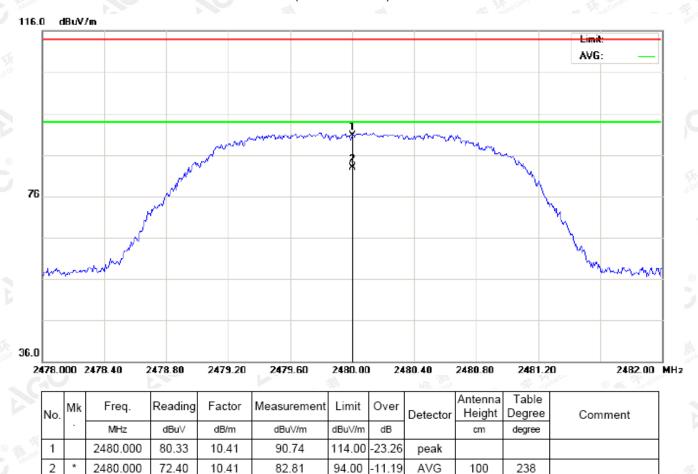
RESULT: PASS

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Page 27 of 65

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



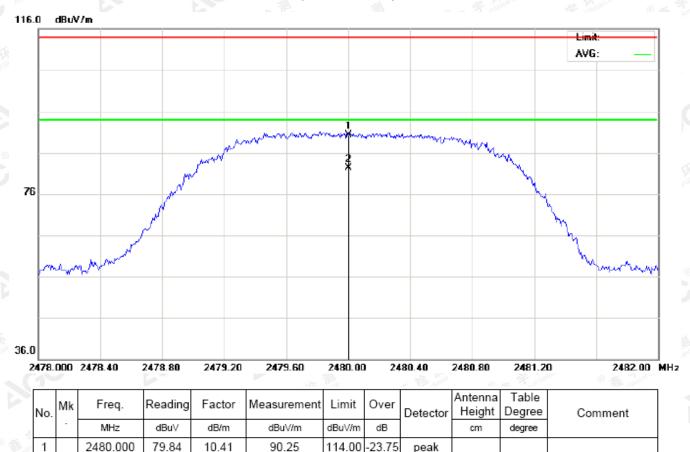
RESULT: PASS

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Page 28 of 65

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



RESULT: PASS

2480.000

71.88

10.41

2

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

82.29

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

94.00

-11.71

AVG

100

107



Page 29 of 65

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	80.97	10.32	91.29	114	-22.71	Horizontal
2402	80.56	10.32	90.88	114	-23.12	Vertical
2441	79.73	10.36	91.09	114	-22.91	Horizontal
2441	80.31	10.36	90.67	114	-23.33	Vertical
2480	80.33	10.41	90.74	114	-23.26	Horizontal
2480	79.84	10.41	90.25	114	-23.75	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.04	10.32	83.36	94	-10.64	Horizontal
2402	72.56	10.32	82.88	94	-11.12	Vertical
2441	72.76	10.36	83.12	94	-10.88	Horizontal
2441	72.25	10.36	82.61	94	-11.39	Vertical
2480	72.40	10.41	82.81	94	-11.19	Horizontal
2480	71.88	10.41	82.29	94	-11.71	Vertical



Page 30 of 65

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.52	10.32	90.84	114	-23.16	Horizontal
2402	80.10	10.32	90.42	114	-23.58	Vertical
2441	80.26	10.36	90.62	114	-23.38	Horizontal
2441	79.82	10.36	90.18	114	-23.82	Vertical
2480	79.89	10.41	90.30	114	-23.70	Horizontal
2480	79.40	10.41	89.81	114	-24.19	Vertical

Average value

3						
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.59	10.32	82.91	94	-11.09	Horizontal
2402	72.10	10.32	82.42	94	-11.58	Vertical
2441	72.33	10.36	82.69	94	-11.31	Horizontal
2441	71.76	10.36	82.12	94	-11.88	Vertical
2480	71.95	10.41	82.36	94	-11.64	Horizontal
2480	71.39	10.41	81.80	94	-12.20	Vertical



Page 31 of 65

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.09	10.32	90.41	114	-23.59	Horizontal
2402	79.61	10.32	89.93	114	-24.07	Vertical
2441	79.81	10.36	90.17	114	-23.83	Horizontal
2441	79.41	10.36	89.77	114	-24.23	Vertical
2480	79.47	10.41	89.88	114	-24.12	Horizontal
2480	78.98	10.41	89.39	114	-24.61	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.15	10.32	82.47	94	-11.53	Horizontal
2402	71.62	10.32	81.94	94	-12.06	Vertical
2441	71.84	10.36	82.20	94	-11.80	Horizontal
2441	71.31	10.36	81.67	94	-12.33	Vertical
2480	71.50	10.41	81.91	94	-12.09	Horizontal
2480	70.93	10.41	81.34	94	-12.66	Vertical

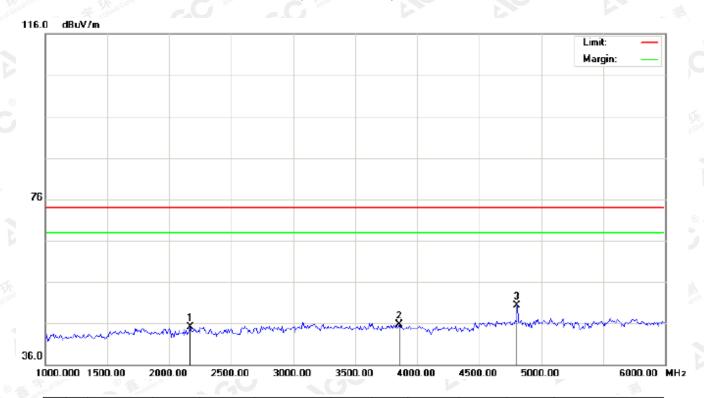


Page 32 of 65

(Worst modulation: GFSK)

For Harmonics

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



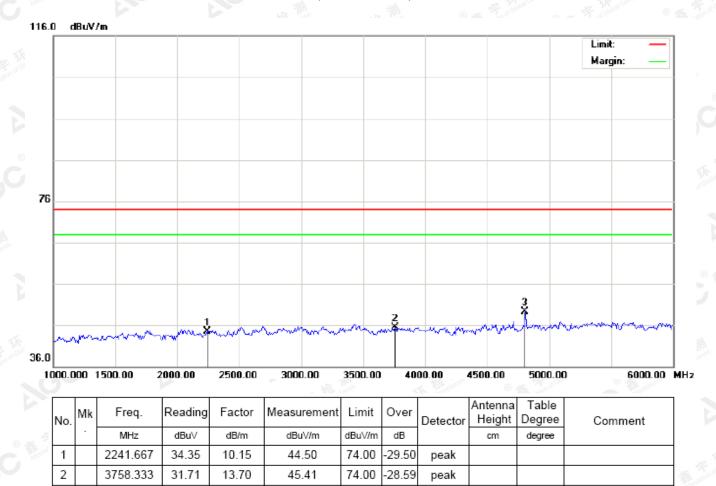
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2166.667	35.03	10.06	45.09	74.00	-28.91	peak			
2		3858.333	31.40	14.32	45.72	74.00	-28.28	peak			
3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

RESULT: PASS



Page 33 of 65

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



74.00

-24.76

peak

RESULT: PASS

4804.000

41.55

7.69

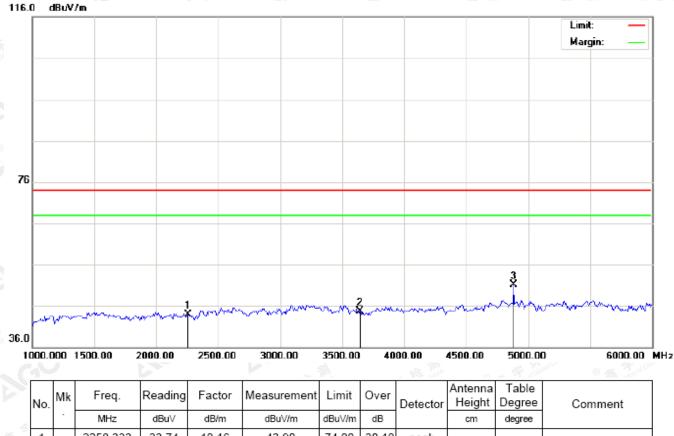
49.24

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Page 34 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	dBuV/m	dBu∀/m	dB		cm	degree	
101	1		2258.333	33.74	10.16	43.90	74.00	-30.10	peak			
	2		3641.667	31.64	12.98	44.62	74.00	-29.38	peak			
	3	*	4882.000	43.16	7.89	51.05	74.00	-22.95	peak			

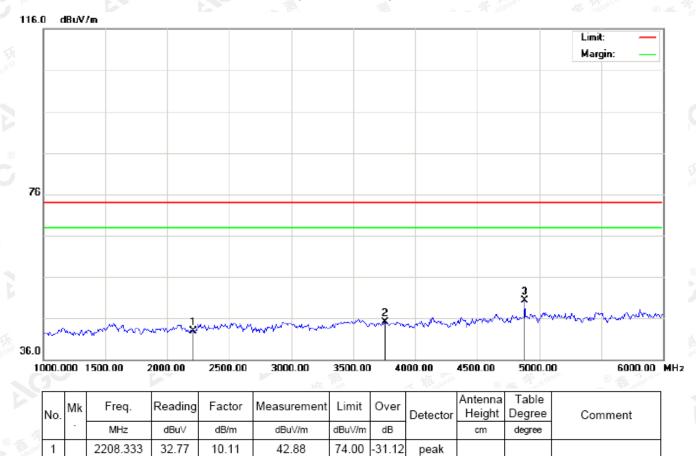
RESULT: PASS

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Page 35 of 65

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



74.00

74.00

28.97

-23.72

peak

peak

45.03

RESULT: PASS

2

3758.333

4882.000

31.33

42.39

13.70

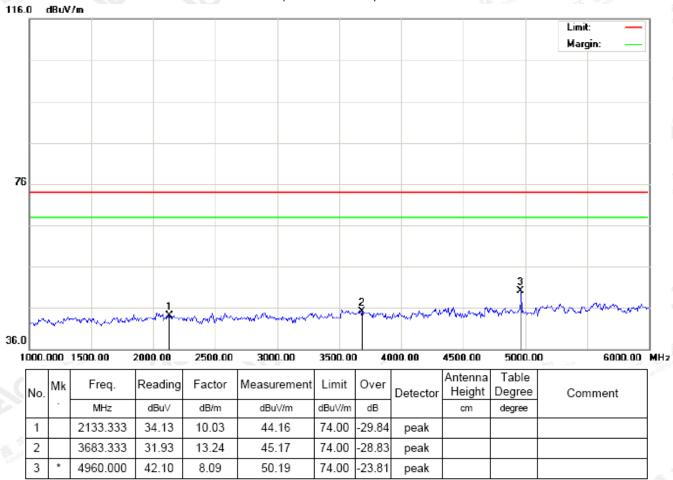
7.89

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Page 36 of 65

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



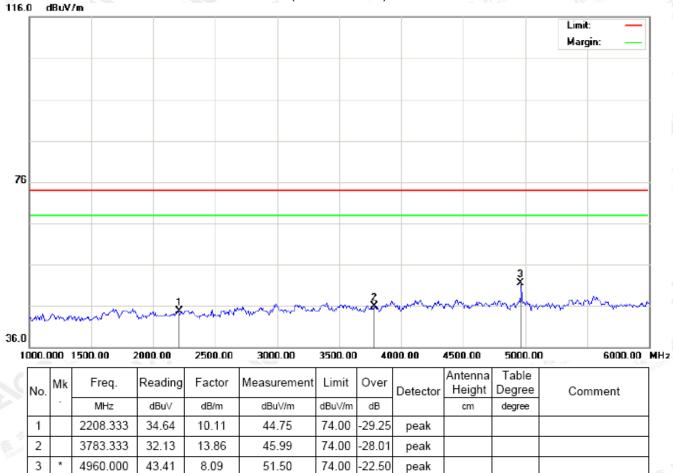
RESULT: PASS

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Page 37 of 65

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



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

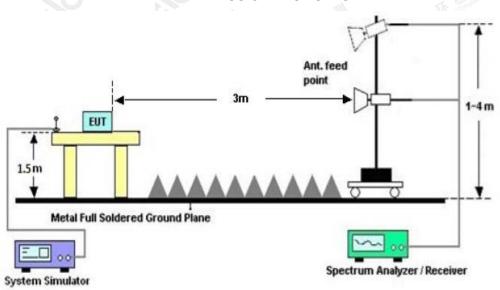
10.1. MEASUREMENT PROCEDURE

- 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 frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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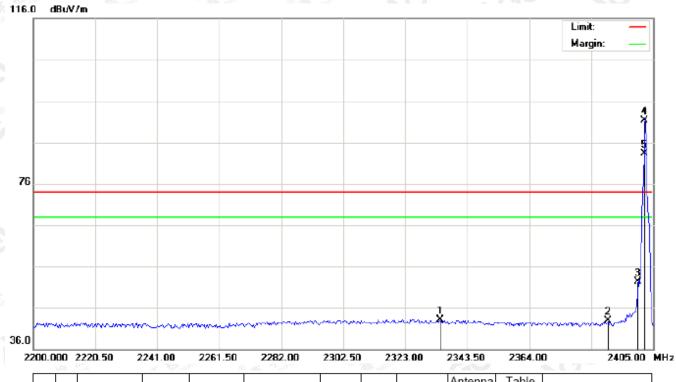


Page 39 of 65

10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



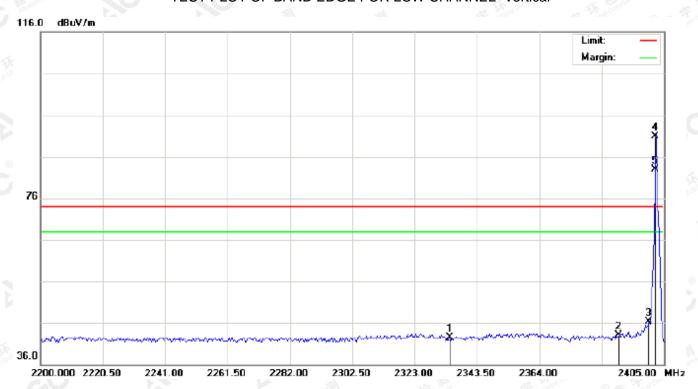
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2334.617	32.81	10.25	43.06	74.00	-30.94	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	41.97	10.32	52.29	74.00	-21.71	peak			
4	*	2402.000	80.89	10.32	91.21	74.00	17.21	peak			
5	Х	2402.000	72.99	10.32	83.31	74.00	9.31	AVG	100	231	

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Page 40 of 65

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



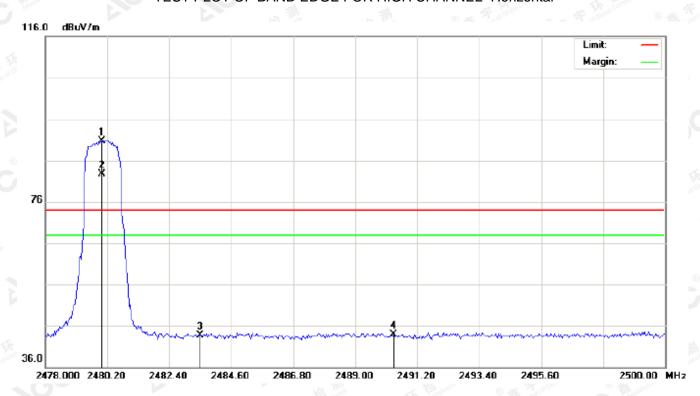
N). N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		. [MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1			2334.616	32.22	10.25	42.47	74.00	-31.53	peak			
2			2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3			2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4		*	2402.000	80.53	10.32	90.85	74.00	16.85	peak			
5		Х	2402.000	72.53	10.32	82.85	74.00	8.85	AVG	100	108	

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Page 41 of 65

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



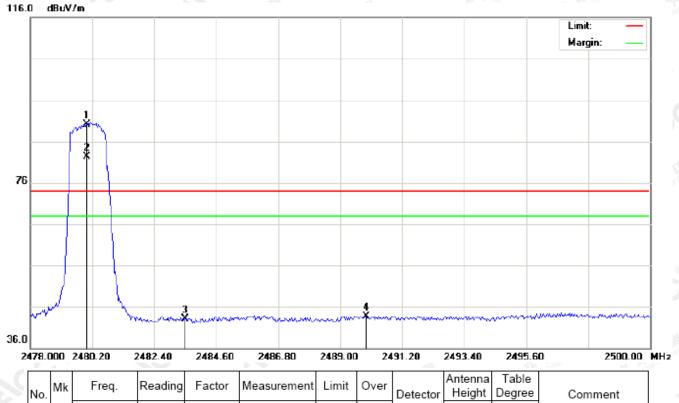
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ă		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1	*	2480.000	80.29	10.41	90.70	74.00	16.70	peak			
	2	Х	2480.000	72.35	10.41	82.76	74.00	8.76	AVG	100	235	
	3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
	4		2490.357	33.51	10.42	43.93	74.00	-30.07	peak			

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Page 42 of 65

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



N). N	Иk	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	79.79	10.41	90.20	74.00	16.20	peak			
2		Х	2480.000	71.83	10.41	82.24	74.00	8.24	AVG	100	105	
3			2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4			2489.917	33.36	10.42	43.78	74.00	-30.22	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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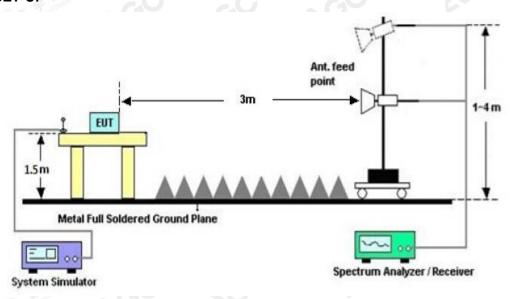
Page 43 of 65

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



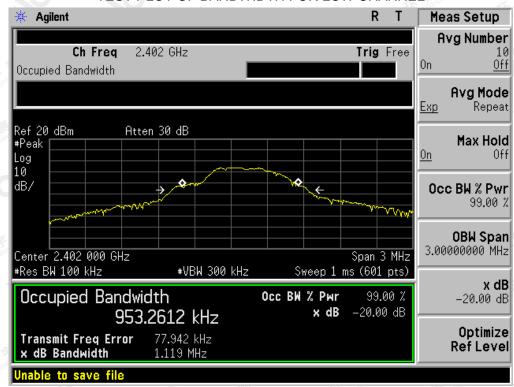
11.3. LIMITS AND MEASUREMENT RESULTS

		VD2 " -6	alla.	-100							
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Test Data (MHz)									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The state of the s	Low Channel	0.953	1.119	PASS							
N/A	Middle Channel	0.975	1.138	PASS							
	High Channel	0.978	1.138	PASS							

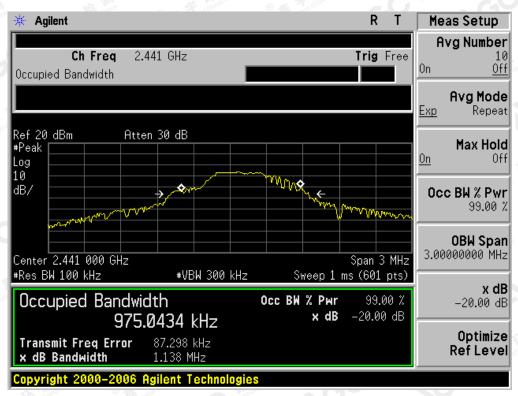
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

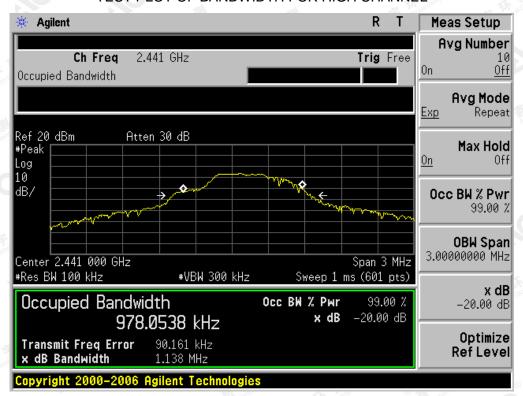


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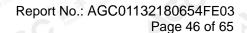




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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				AN SO GO								
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT												
		Measure	ement Result									
Applicable Limits		Result										
		99%OBW (MHz)	-20dB BW(MHz)	Result								
THE	Low Channel	1.159	1.291	PASS								
N/A	Middle Channel	1.171	1.314	PASS								
AGC "	High Channel	1.147	1.316	PASS								

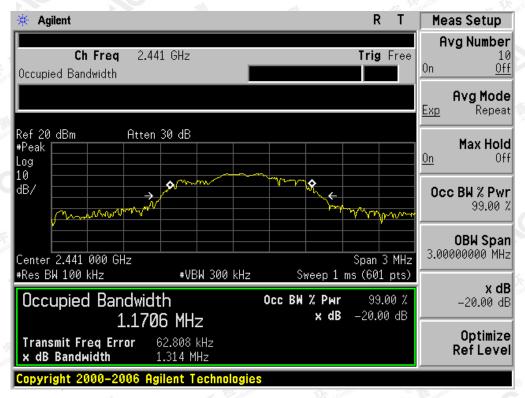
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



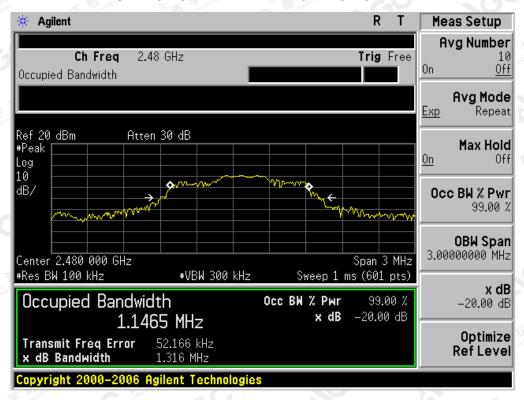
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Alle	dil		- 31 JO	* Com. 2							
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits		Doorle									
		Result									
TO THE	Low Channel	1.155	1.296	PASS							
N/A	Middle Channel	1.158	1.265	PASS							
	High Channel	1.171	1.302	PASS							

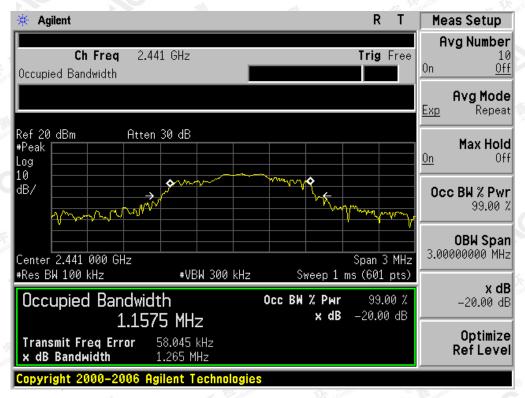
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



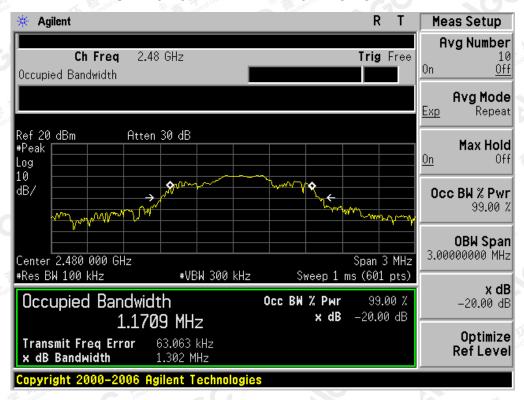
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 65

12. FCC LINE CONDUCTED EMISSION TEST

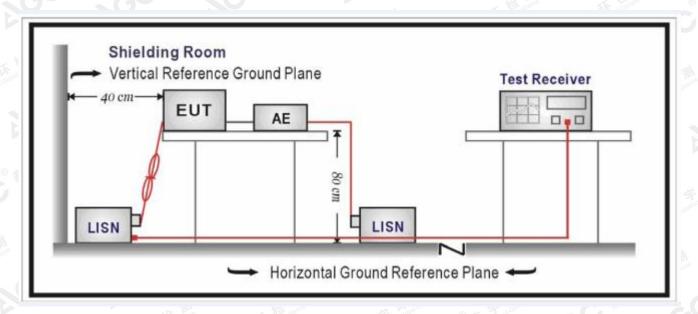
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

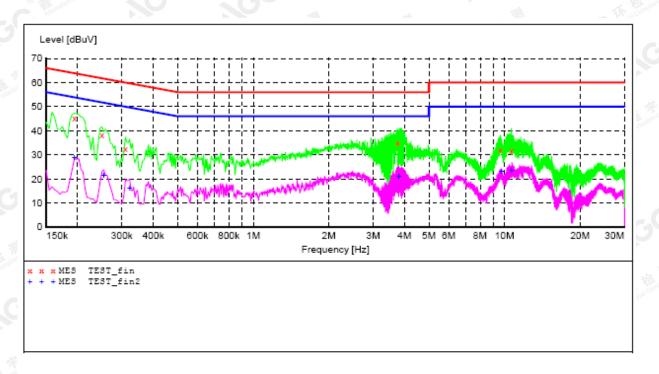
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

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
0.194000 0.250000 0.310000 3.754000	45.30 38.30 32.60 34.80	10.1 10.1 10.1 10.1	64 62 60 56	23.5 27.4 21.2	QP QP QP QP	L1 L1 L1	FLO FLO FLO
9.614000 10.646000	32.10 31.90	10.4	60 60	27.9 28.1	QP QP	L1 L1	FLO FLO

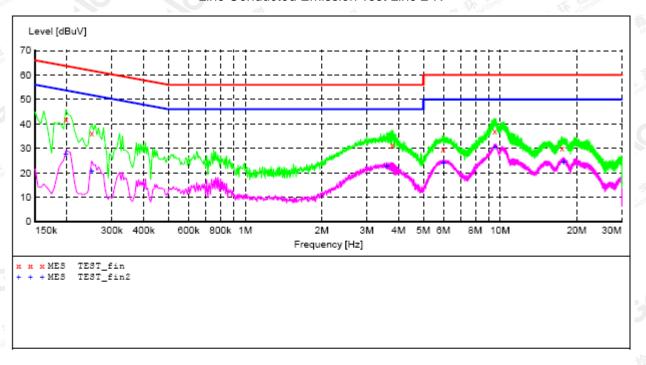
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194000	28.80	10.1	54	25.1	AV	L1	FLO
0.254000	21.60	10.1	52	30.0	AV	L1	FLO
0.322000	16.20	10.1	50	33.5	AV	L1	FLO
3.790000	20.90	10.1	46	25.1	AV	L1	FLO
9.726000	22.90	10.5	50	27.1	AV	L1	FLO
10.686000	23.40	10.4	50	26.6	AV	L1	FLO

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Report No.: AGC01132180654FE03 Page 53 of 65

Line Conducted Emission Test Line 2-N



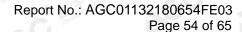
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000 0.250000 3.770000 5.966000 9.534000 17.518000	41.90 36.10 31.30 29.80 37.00 30.10	10.1 10.1 10.1 10.0 10.4 9.5	64 62 56 60 60	21.8 25.7 24.7 30.2 23.0 29.9	QP QP QP QP QP OP	N N N N N	FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	27.80	10.1	54	25.9		N	FLO
0.250000	20.60	10.1	52	31.2	AV	N	FLO
3.598000	22.50	10.0	46	23.5	AV	N	FLO
6.014000	23.90	10.0	50	26.1	AV	N	FLO
9.582000	30.60	10.4	50	19.4	AV	N	FLO
17.778000	24.50	9.5	50	25.5	AV	N	FLO

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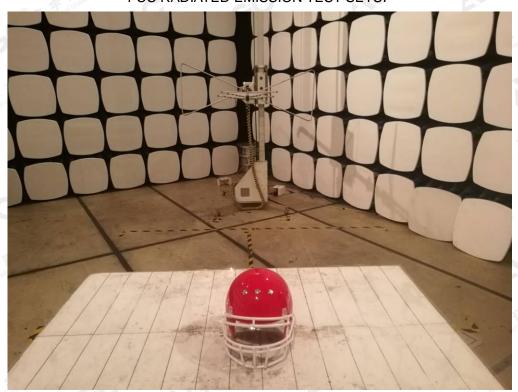


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



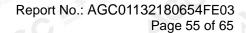
FCC RADIATED EMISSION TEST SETUP



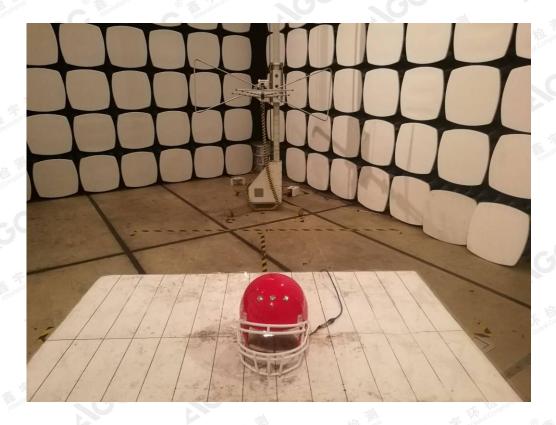
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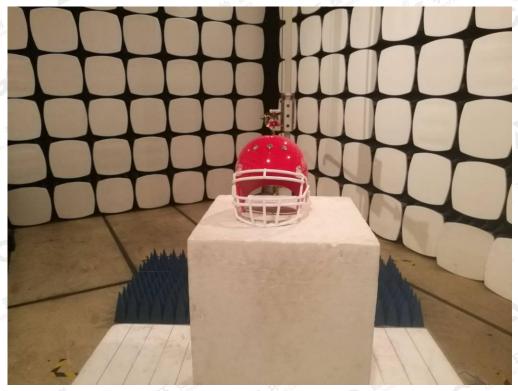
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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



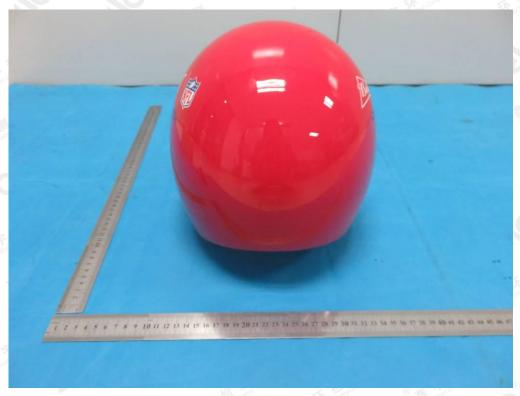
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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



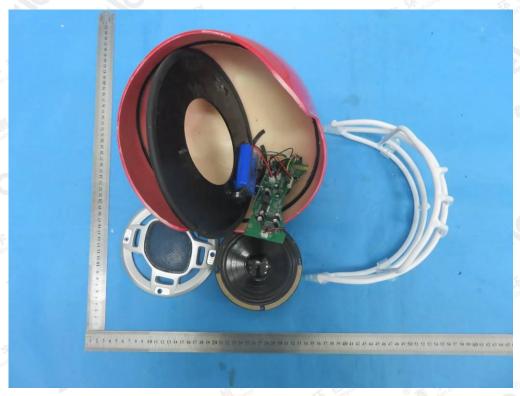
VIEW OF EUT (PORT)



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OPEN VIEW OF EUT



VIEW OF BATTERY-1



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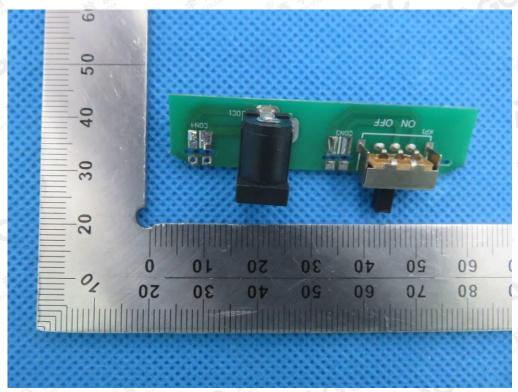
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VIEW OF BATTERY-2



INTERNAL VIEW OF EUT-1



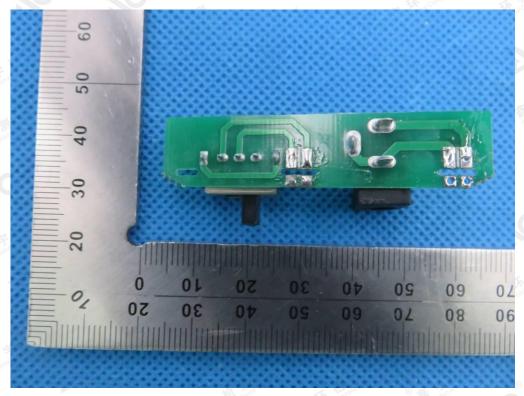
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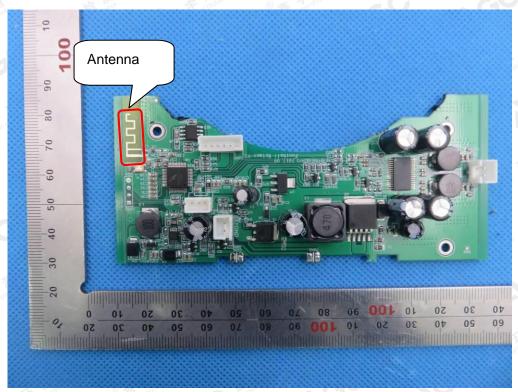
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



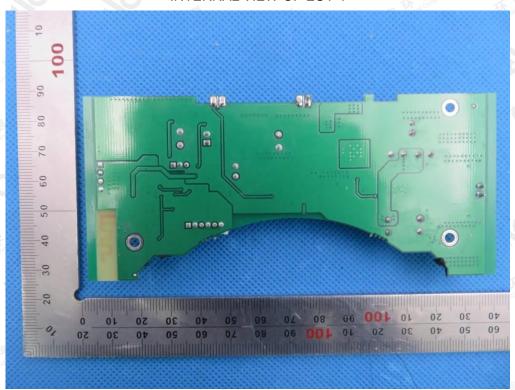
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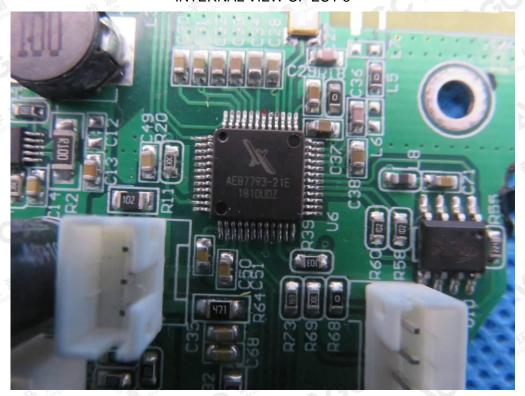
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INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



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VIEW OF ADAPTER



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