FCC Test Report

Report No.: AGC04022160303FE08

FCC ID : Z9G-EDF28

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Earbuds

BRAND NAME : EDIFIER, HEADRUSH

MODEL NAME : W295BT, W290BT, 8044492

CLIENT : Edifier International Limited

DATE OF ISSUE : Apr. 11, 2016

STANDARD(S) : FCC Part 15 Rules KDB 558074 v03r04

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 11, 2016	Valid	Original Report

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1. VERIFICATION OF COMPLIANCE

	<u></u>
Applicant	Edifier International Limited
Address	Room 2207-9,Tower Two,Lippo Centre 89 Queensway,HongKong
Manufacturer	Beijing Edifier Technology Co., Ltd.
Address	8th Floor,Zuoan Building,NO.68 BeiSiHuanXiLu,Haidian District, Beijing 100080,China
Factory	Dongguan Edifier Technology Co., Ltd.
Address	No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan,Guangdong 523808, PR.China
Product Designation	Earbuds
Brand Name	EDIFIER, HEADRUSH
Test Model	W295BT
Series Model	W290BT, 8044492
Model Difference	All the same except for the appearance.
Date of test	Mar.26, 2016 to Apr.05, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Reviewed by

Reviewed by

Rock Huang(Huang Dinglue) Apr.11, 2016

Approved by

Solger Zhang(Zhang Hongyi) Apr.11, 2016

Apr.11, 2016

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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is "BT earphone" designed as a "Communication Device". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	5.744dBm(Max)
Bluetooth Version	V4.1
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Duty cycle	100%
Antenna Designation	Integrated Antenna
Antenna Gain	0dBi
Hardware Version	BTH090MB-V10
Software Version	V1.0
Power Supply	DC3.7V by Battery or DC5V by USB port

Note: The USB port is only for charging.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402MHZ	
	1	2404MHZ	
2400~2483.5MHZ	:	:	
	38	2478 MHZ	
	39	2480 MHZ	

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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: Z9G-EDF28** filling to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v03r04.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

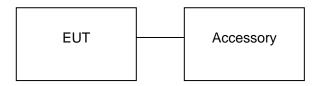
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Earbuds	EDIFIER,	W295BT	EUT
2	PC	SONY	E1412AYCW	Support
3	Control box	N/A	N/A	Support
4	Adapter	N/A	Kx-500100	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission and Band Edges	Compliant
§15.247	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.207	Line Conduction Emission	N/A

^{*}EUT is not active (does not transmit) during charging process.

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6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.		
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.		
FCC Registration No.	371540		
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009.		

ALL TEST EQUIPMENT LIST

ALL 1EST EQUIFIVIENT LIST						
Radiated Emission Test Site						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016	
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016	
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016	
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016	
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016	
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A	
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016	
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016	
Temporary antenna connector	Sat	002	N/A	June 6, 2015	June 5, 2016	
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 6, 2015	June 5, 2016	
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016	

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7. PEAK OUTPUT POWER

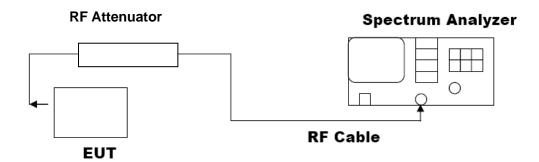
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

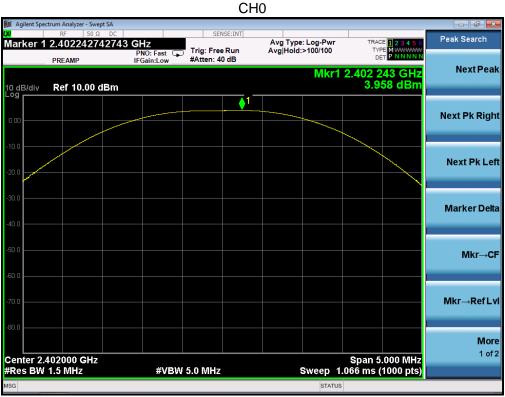
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT						
FOR GFSK MOUDULATION						
Frequency (GHz)	Dace or Fail					
2.402	3.958	21	Pass			
2.441	4.097	21	Pass			
2.480	5.744	21	Pass			



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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT					
A multipolita I timette	Applicable Limits				
Applicable Limits	Test Da	Criteria			
	Low Channel	693.2	PASS		
>500KHZ	Middle Channel	691.8	PASS		
	High Channel	691.8	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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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

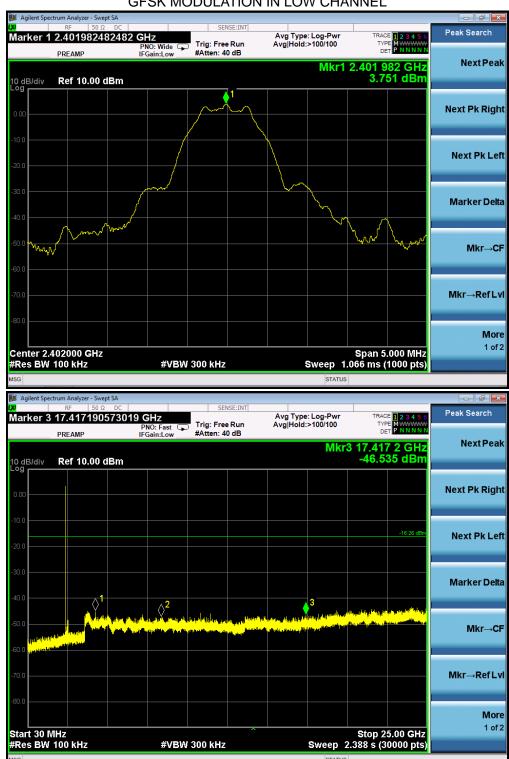
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
A collection to the Section	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS			

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TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL



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GFSK MODULATION IN MIDDLE CHANNEL



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GFSK MODULATION IN HIGH CHANNEL



Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	nnel No. PSD Limit (dBm/3kHz) (dBm/3kHz)		Result
Low Channel	-11.690	8	Pass
Middle Channel	-11.256	8	Pass
High Channel	-9.990	8	Pass





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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

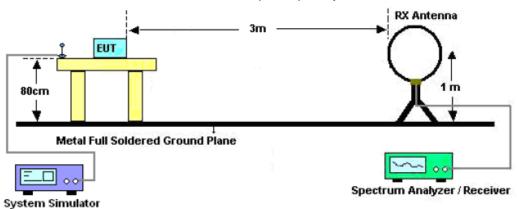
11.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

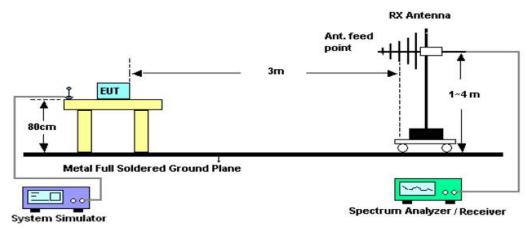
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11.2. TEST SETUP

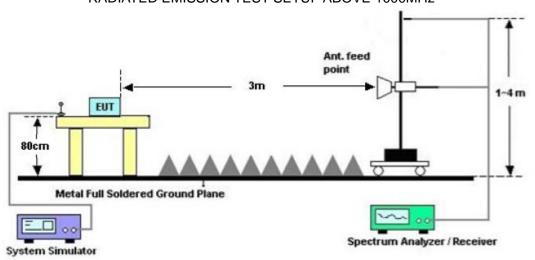
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

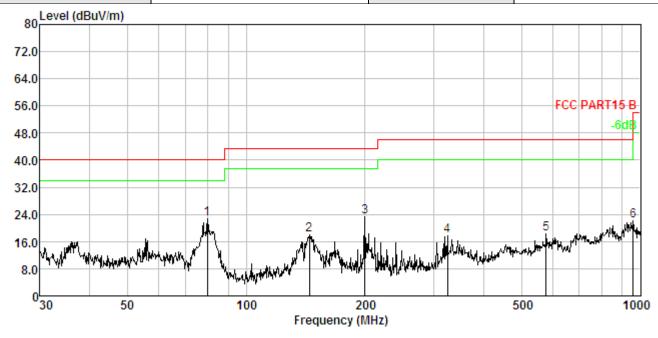
RADIATED EMISSION BELOW 30MHZ

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

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RADIATED EMISSION BELOW 1GHZ

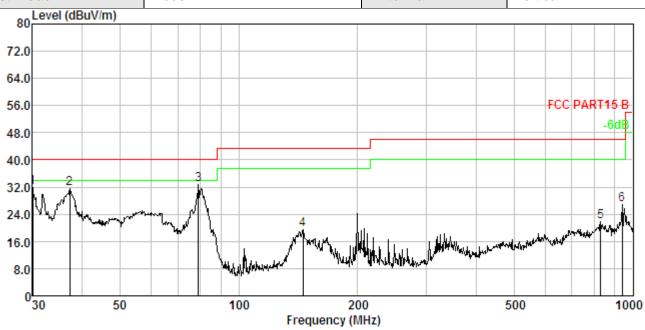
EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



No.	Freq MHz	Cable Loss dB		Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	79.800	1.94	8.81	42.16	30.31	22.60	40.00	-17.40	Peak
2.	144.842	2.48	13.63	32.31	30.52	17.90	43.50	-25.60	Peak
3.	199.986	2.77	10.38	40.90	30.63	23.42	43.50	-20.08	Peak
4.	324.456	3.21	13.75	31.52	30.80	17.68	46.00	-28.32	Peak
5.	576.644	3.73	18.55	26.92	31.00	18.20	46.00	-27.80	Peak
6.	958.794	4.19	23.43	25.60	31.18	22.04	46.00	-23.96	Peak

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EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m		Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	30.000	1.06	13.24	47.54	29.97	31.87	40.00	-8.13	Peak
2.	37.285	1.25	13.50	47.02	30.05	31.72	40.00	-8.28	Peak
3.	78.965	1.93	8.99	52.12	30.31	32.73	40.00	-7.27	Peak
4.	145.351	2.48	13.65	33.78	30.52	19.39	43.50	-24.11	Peak
5.	827.493	4.06	21.94	26.92	31.12	21.80	46.00	-24.20	Peak
6.	938.833	4.17	23.22	30.65	31.17	26.87	46.00	-19.13	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.
 - 3. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4804.026	46.59	3.74	50.33	74	-23.67	peak	
4804.026	41.23	3.74	44.97	54	-9.03	AVG	
7206.026	40.31	8.14	48.45	74	-25.55	peak	
7206.026	36.07	8.14	44.21	54	-9.79	AVG	
Remark:							
-actor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4804.026	43.21	3.74	46.95	74	-27.05	peak	
4804.026	39.54	3.74	43.28	54	-10.72	AVG	
7206.026	39.57	8.14	47.71	74	-26.29	peak	
7206.026	35.06	8.14	43.2	54	-10.8	AVG	
Remark:							
actor = Antenna Factor + Cable Loss – Pre-amplifier.							

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EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.026	45.68	3.76	49.44	74	-24.56	peak
4880.026	41.79	3.76	45.55	54	-8.45	AVG
7320.039	41.38	8.17	49.55	74	-24.45	peak
7320.039	35.74	8.17	43.91	54	-10.09	AVG
Remark:						
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.026	42.97	3.76	46.73	74	-27.27	peak
4880.026	39.26	3.76	43.02	54	-10.98	AVG
7320.039	42.33	8.17	50.5	74	-23.5	peak
7320.039	35.84	8.17	44.01	54	-9.99	AVG
Remark:						
-actor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.026	45.26	3.83	49.09	74	-24.91	peak
4960.026	41.87	3.83	45.7	54	-8.3	AVG
7440.039	42.69	8.21	50.9	74	-23.1	peak
7440.039	39.14	8.21	47.35	54	-6.65	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Value Type					
*)					
91 peak					
91 AVG					
92 peak					
37 AVG					
Remark:					
_					

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

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

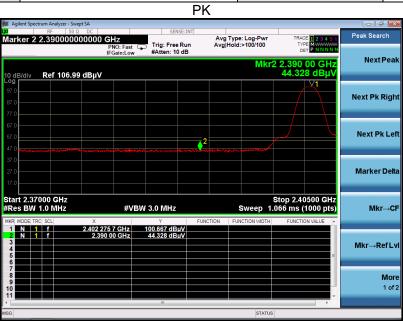
The "Factor" value can be calculated automatically by software of measurement system.

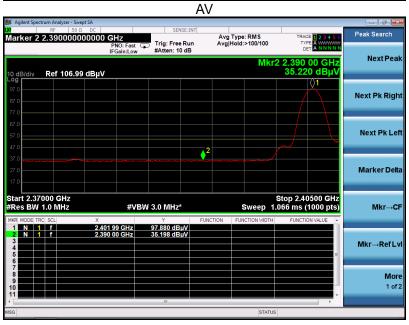
All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.

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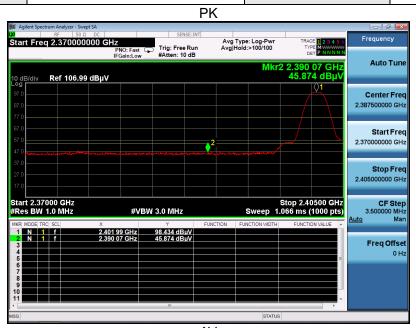
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

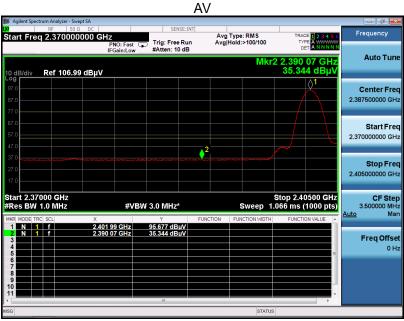
EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





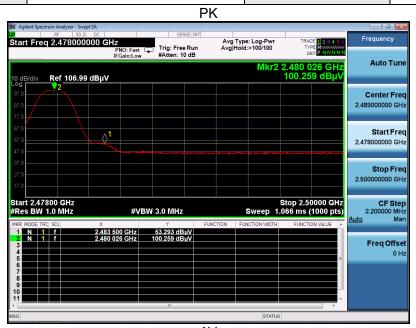
EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

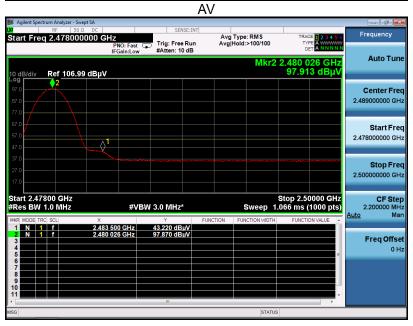




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EUT	Earbuds	Model Name	W295BT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

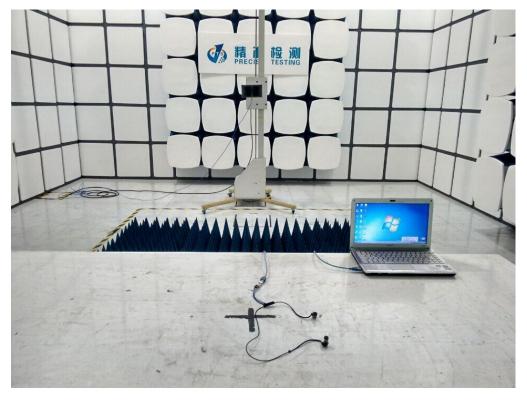
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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APPENDIX B: PHOTOGRAPHS OF EUT

Model: W295BT ALL VIEW OF EUT



PART VIEW OF EUT-1

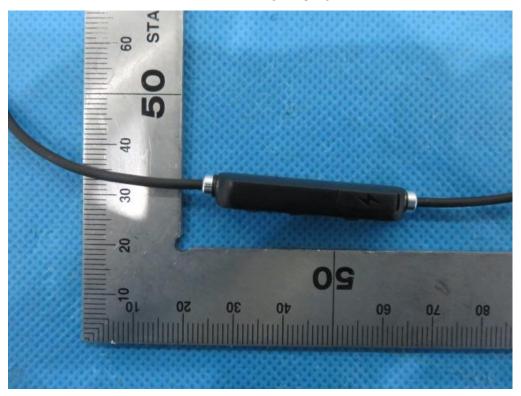


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PART VIEW OF EUT-2

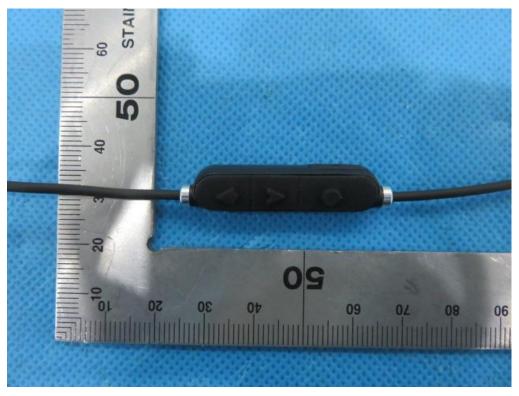


PART VIEW OF EUT-3

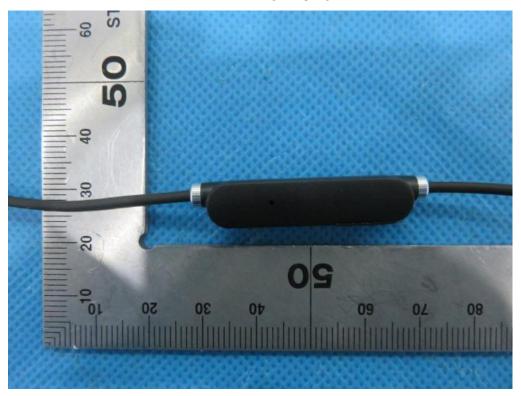


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PART VIEW OF EUT-4

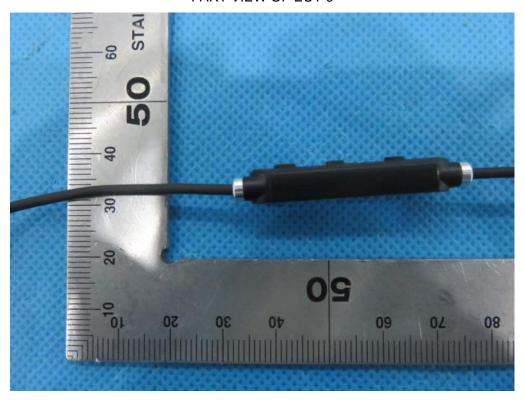


PART VIEW OF EUT-5

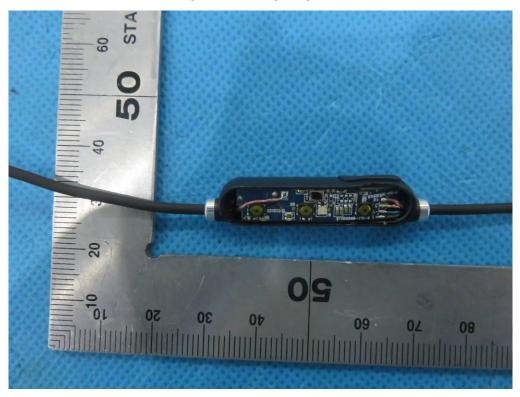


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PART VIEW OF EUT-6

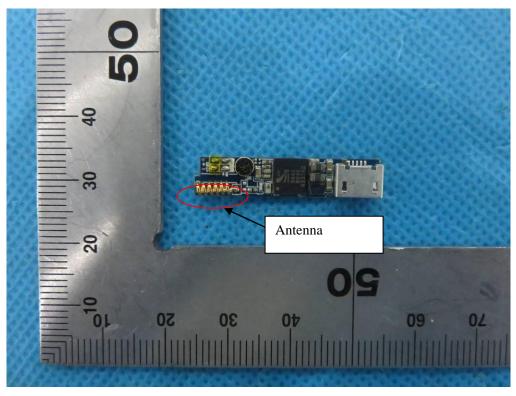


OPEN VIEW OF EUT-1

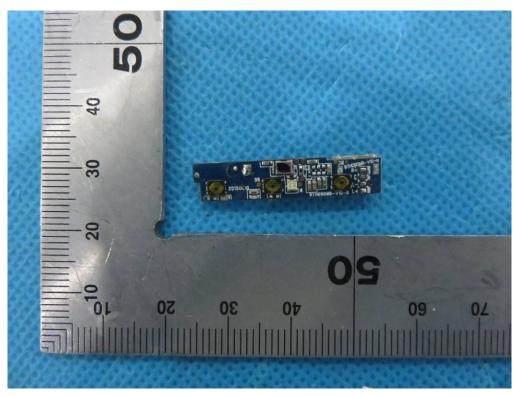


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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VIEW OF EUT-W290BT



VIEW OF EUT-8044492



----END OF REPORT----