

# **Test Report**

FCC ID: 2ADTV-A80108

Date of issue: June 05, 2019

Report Number: MTi190604E021

Sample Description: True wireless earphones

Model(s): A801-08

Applicant: ShenZhen Cannice Technology Co., Ltd.

Address: 20/F, Tower A, Building 7, Baoneng Science and Technology

Park, Qingxiang Road #1, Longhua New District, Shenzhen,

China

Date of Test: May 20, 2019 to June 05, 2019

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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## **TEST REPORT**

Applicant's name:	ShenZhen Cann	ShenZhen Cannice Technology Co., Ltd.			
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Manufacture's Name:	ShenZhen Cann	ice Technology Co., Ltd	d.		
Address:		20/F, Tower A, Building 7, Baoneng Science and Technology Park, Qingxiang Road #1, Longhua New District, Shenzhen, China			
Product name:	True wireless ea	True wireless earphones			
Trademark:	N/A				
Model name:	A801-08				
Standards:	FCC Part 15.247	,			
Test Procedure:	ANSI C63.10-20	13			
	is in compliance with		Ltd. and the test results show that the And it is applicable only to the tested		
Tested by:		< <i>/</i>	lone.lee		
		Jone Lee	June 05, 2019		
Reviewed b	y:	13	hue. Zherg		
		Blue Zheng	June 05, 2019		
Approved by:		She	ttohen		
_		Smith Chen	June 05, 2019		



## 1 General Information

## 1.1 Description of EUT

Product name:	True wireless earphones
Model name:	A801-08
Serial model:	N/A
Difference in series models:	N/A
Operation frequency:	2402-2480MHz
Modulation type:	GFSK, π/4-DQPSK,8DPSK
Bit Rate of transmitter:	1 Mbps, 2Mbps, 3Mbps
Antenna type:	FPCB Antenna
Antenna gain:	0.21dBi
Max. output power:	7.995dBm
Hardware version:	V0E
Software version:	V0C
Power supply:	DC 3.7V from battery or DC 5V from adapter
Adapter information:	N/A
Battery:	The Headset : DC 3.7V 60mAh The Charging Box: DC 3.7V 500mAh

## 1.2 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465

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Report No.: MTi190604E021

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## 微测检测

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10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

#### 1.3 Test channel list

Channel	Channel	Frequency (MHz)
Low	00	2402
Middle	39	2441
High	78	2480

## 1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	/	/	/	/

## 1.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/

#### Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2)For detachable type I/O cable should be specified the length in cm in FLength a column.



## 2 Summary of Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna requirement	Pass	
2	15.247(b)(1)	Peak output power	Pass	
3	15.207	Conducted emission	Pass	
4	15.247(d)	Band edge	Pass	
5	15.205/15.209	Spurious emission	Pass	
6	15.247(a)(1)	20dB occupied bandwidth	Pass	
7	15.247(a)(1)	Carrier Frequencies Separation	Pass	
8	15.247(a)(1)	Hopping channel number	Pass	
9	15.247(a)(1)	Dwell time	Pass	
10	15.205	Spurious RF Conducted Emissions	Pass	



3 Test Facilities and Accreditations

## 3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd.
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

#### 3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

#### 3.3 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 %

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.68dB
5	All emissions, radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

#### 3.4 Test software

Software	Manufacturer	Model	Version	
Name	Mariaractaror		7 3.31011	
RF Test System	Farad	LZ-RF	Lz_Rf 3A3	



4 Equipment List

Equipment No.	Equipment Name	Manufactur er	Model	Serial No.	Calibration date	Due date
MTI-E001	Spectrum Analyzer	Agilent	E4407B	MY41441082	2018/09/18	2019/09/17
MTI-E004	EMI Test Receiver	Rohde&schw arz	ESPI	1000314	2018/09/18	2019/09/17
MTI-E006	Broadband antenna	schwarabeck	VULB916 3	872	2018/09/18	2019/09/17
MTI-E007	Horn antenna	schwarabeck	BBHA912 0D	1201	2018/09/18	2019/09/17
MTI-E014	amplifier	America	8447D	3113A06150	2018/09/18	2019/09/17
MTI-E015	Conduction Immunity Signal Generator	Schloder	CDG6000	126A1343/20 15	2018/09/18	2019/09/17
MTI-E016	Coupled decoupling network	Schloder	CND M2/M3	A2210332/20 15	2018/09/18	2019/09/17
MTI-E034	amplifier	Agilent	8449B	3008A02400	2018/09/18	2019/09/17
MTI-E037	Artificial power network	Schwarzbeck	NSLK812 7	#841	2018/09/18	2019/09/17
MTI-E040	Spectrum analyzer	Agilent	N9020A	MY49100060	2018/09/18	2019/09/17
MTI-E041	Signal generator	Agilent	N5182A	MY49060455	2018/09/18	2019/09/17
MTI-E042	Analog signal generator	Agilent	E4421B	GB40051240	2018/09/18	2019/09/17
MTI-E043	Power probe	Dare Instruments	RPR3006 W	16I00054SN O16	2018/09/18	2019/09/17
MTI-E047	10dB attenuator	Mini-Circuits	UNAT-10+	15542	2018/09/18	2019/09/17
MTI-E049	spectrum analyzer	Rohde&schw arz	FSP-38	100019	2018/09/18	2019/09/17
MTI-E050	PSG Signal generator	Agilent	E8257D	MY46520873	2018/09/18	2019/09/17
MTI-E061	Active Loop Antenna 9kHz - 30MHz	Schwarzbeek	FMZB 1519 B	00044	2018/09/18	2019/09/17
MTI-E052	18-40GHz amplifier	Chengdu step Micro Technology	ZLNA-18- 40G-21	1608001	2018/09/18	2019/09/17
MTI-E053	15-40G Antenna	Schwarzbeek	BBHA917 0	BBHA91705 82	2018/09/18	2019/09/17
MTI-E058	Artificial power network	Schwarzbeck	NSLK812 7	#841	2018/09/18	2019/09/17
Note: the coli	pration interval of the	abaya taat inates	······································		aalibratiana ar	

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





## 5 Test Result

#### 5.1 Antenna requirement

#### 5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

#### 5.1.2 EUT Antenna

The EUT antenna is FPCB antenna (0.21dBi). It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.



#### 5.2 Peak output power

#### 5.2.1 Limit

FCC Part15 Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)		
15.247(b)(1)	Peak output power	Power<1W(30dBm)	2400-2483.5		

## 5.2.2 Test setup



#### 5.2.3 Test procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
  RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz)
  RBW=3MHz, VBW=8MHz, Detector=Peak (If 20dB BW > 1 MHz)
- (3) The EUT was set to continuously transmitting in the max power during the test.

#### 5.2.4 Test results



Test data

EUT:	True wireless earphones	Model Name :	A801-08
Temperature:	25 °C	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V by battery

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## **GFSK**

Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	4.477	30
CH39	2441	4.225	30
CH78	2480	3.830	30

## $\pi/4$ -DQPSK

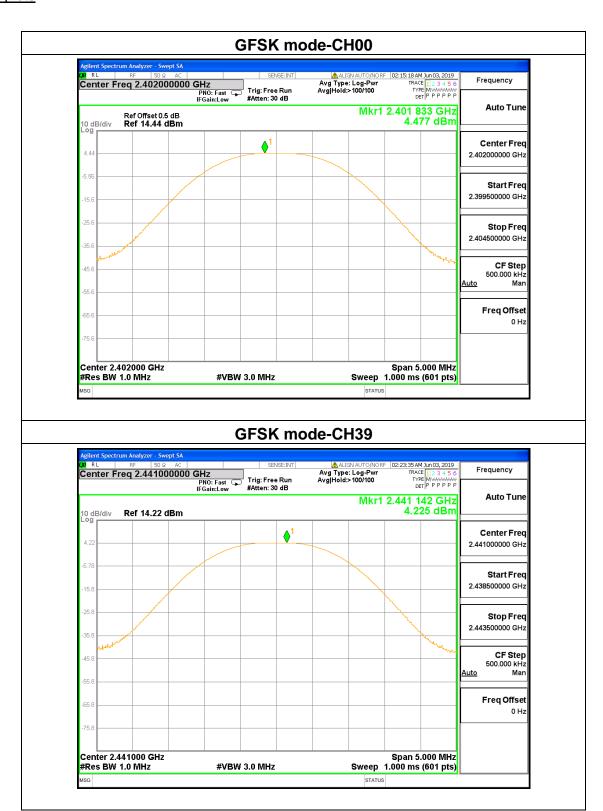
Toot Channal	Frequency	Maximum Peak Output	l: :(/ID )	
Test Channel	(MHz)	Power(dBm)	Limit (dBm)	
CH00	2402	7.405	30	
CH39	2441	7.100	30	
CH78	2480	6.590	30	

## 8DPSK

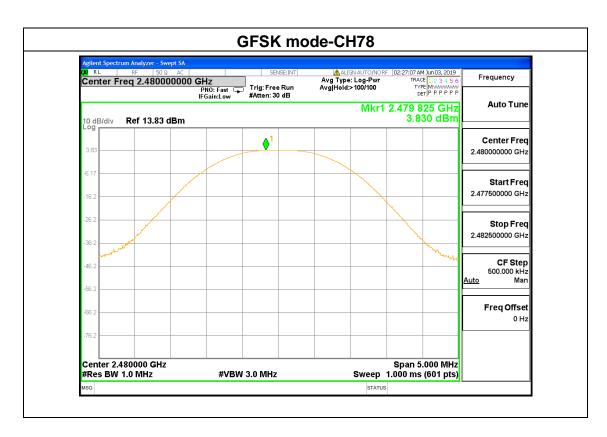
Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	7.995	30
CH39	2441	7.145	30
CH78	2480	6.472	30



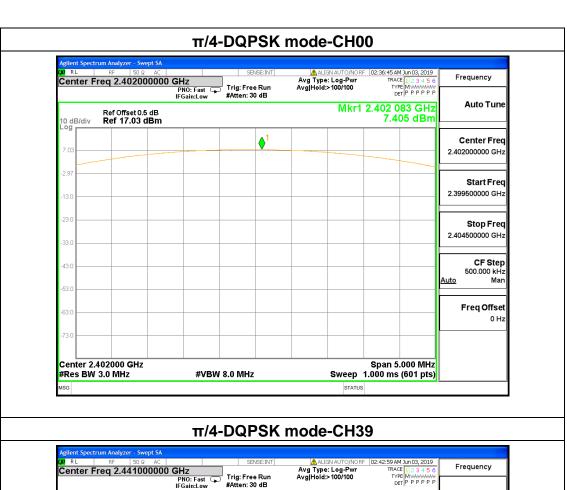
#### Test plots

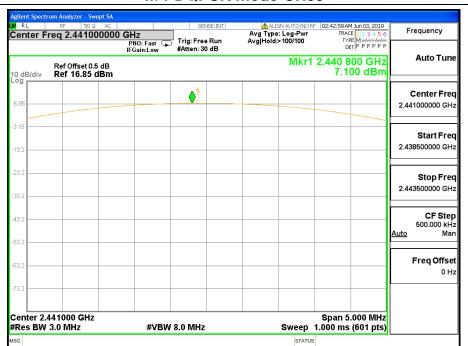




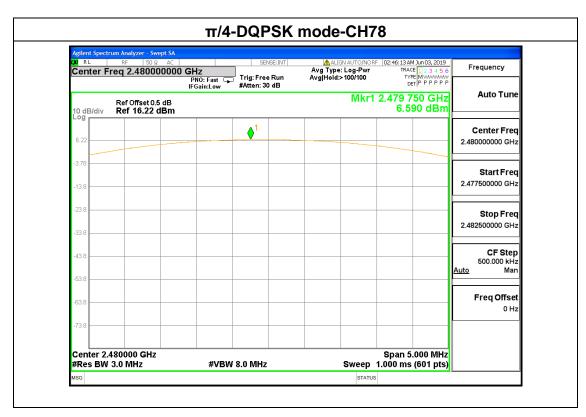


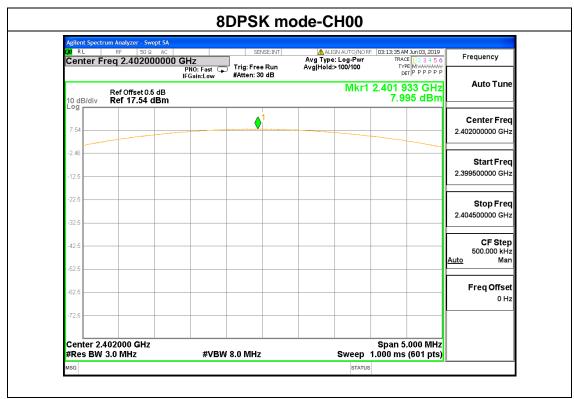


















#### 5.3 Conducted emission

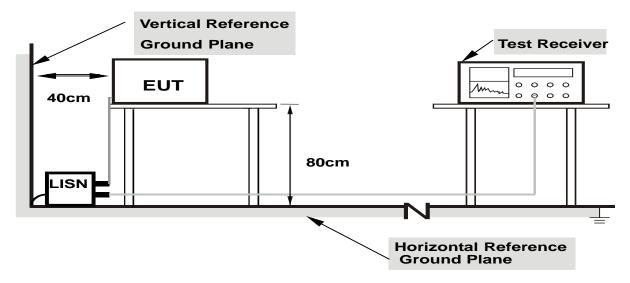
#### 5.3.1 Limits

EDECHENCY (MH-)	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

#### Note

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### 5.3.2 Test setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



#### 5.3.3 Test procedure

#### a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b. The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

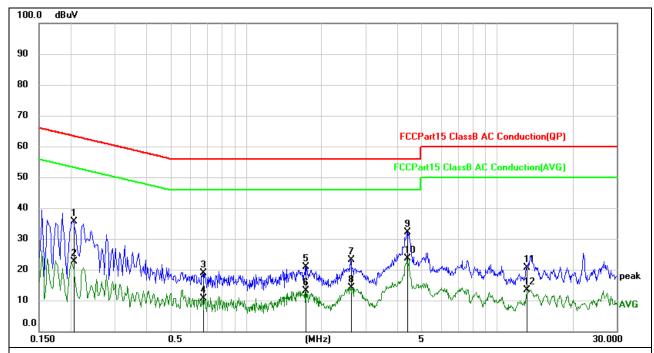
For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 5.3.4 Test results



Test data

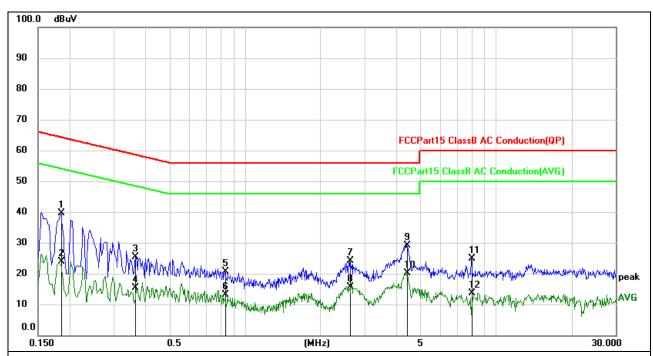
EUT: True wireless earphones		Model Name. :	A801-08
Temperature :	26.6 °C	Relative Humidity:	74%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2058	25.90	9.73	35.63	63.37	-27.74	QP	
2	0.2058	12.92	9.73	22.65	53.37	-30.72	AVG	
3	0.6740	8.88	9.90	18.78	56.00	-37.22	QP	
4	0.6740	0.70	9.90	10.60	46.00	-35.40	AVG	
5	1.7300	10.93	9.97	20.90	56.00	-35.10	QP	
6	1.7300	3.22	9.97	13.19	46.00	-32.81	AVG	
7	2.6218	13.23	9.99	23.22	56.00	-32.78	QP	
8	2.6218	4.19	9.99	14.18	46.00	-31.82	AVG	
9	4.3978	22.12	10.04	32.16	56.00	-23.84	QP	
10 *	4.3978	13.57	10.04	23.61	46.00	-22.39	AVG	
11	13.0859	10.52	10.23	20.75	60.00	-39.25	QP	
12	13.0859	3.23	10.23	13.46	50.00	-36.54	AVG	



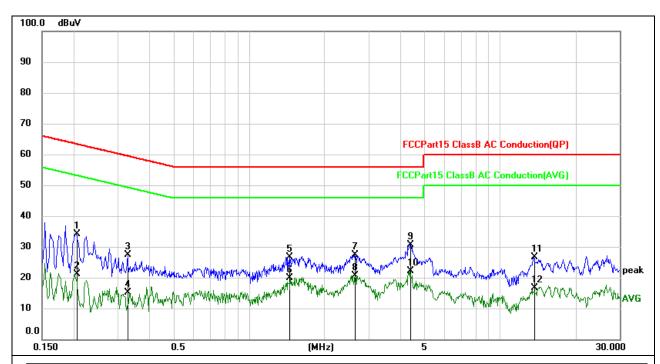
EUT:	True wireless earphones	Model Name. :	A801-08
Temperature :	26.6 °C	Relative Humidity:	74%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1859	29.85	9.73	39.58	64.22	-24.64	QP	
2		0.1859	14.05	9.73	23.78	54.22	-30.44	AVG	
3		0.3659	15.65	9.80	25.45	58.59	-33.14	QP	
4		0.3659	5.66	9.80	15.46	48.59	-33.13	AVG	
5		0.8336	10.68	9.93	20.61	56.00	-35.39	QP	
6		0.8336	3.14	9.93	13.07	46.00	-32.93	AVG	
7		2.6179	14.20	9.99	24.19	56.00	-31.81	QP	
8		2.6179	5.76	9.99	15.75	46.00	-30.25	AVG	
9		4.4179	18.98	10.04	29.02	56.00	-26.98	QP	
10		4.4179	10.13	10.04	20.17	46.00	-25.83	AVG	
11		8.0137	14.71	10.20	24.91	60.00	-35.09	QP	
12		8.0137	3.52	10.20	13.72	50.00	-36.28	AVG	



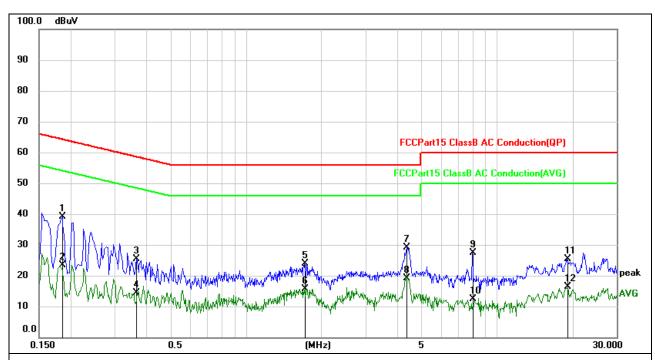
EUT:	True wireless earphones	Model Name. :	A801-08
Temperature :	26.6 °C	Relative Humidity:	74%
Pressure :	1010hPa	Phase :	L
LIACT MAITAGE .	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2058	24.40	9.73	34.13	63.37	-29.24	QP	
2	0.2058	11.42	9.73	21.15	53.37	-32.22	AVG	
3	0.3300	17.67	9.78	27.45	59.45	-32.00	QP	
4	0.3300	5.47	9.78	15.25	49.45	-34.20	AVG	
5	1.4500	16.76	9.96	26.72	56.00	-29.28	QP	
6	1.4500	9.92	9.96	19.88	46.00	-26.12	AVG	
7	2.6419	17.49	9.99	27.48	56.00	-28.52	QP	
8	2.6419	10.69	9.99	20.68	46.00	-25.32	AVG	
9	4.3978	20.62	10.04	30.66	56.00	-25.34	QP	
10 *	4.3978	12.07	10.04	22.11	46.00	-23.89	AVG	
11	13.6257	16.36	10.22	26.58	60.00	-33.42	QP	
12	13.6257	6.44	10.22	16.66	50.00	-33.34	AVG	



EUT:	True wireless earphones	Model Name. :	A801-08
Temperature :	26.6 °C	Relative Humidity:	74%
Pressure :	1010hPa	Phase :	N
LLOCT VOITOGO '	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1859	29.35	9.73	39.08	64.22	-25.14	QP	
2		0.1859	13.55	9.73	23.28	54.22	-30.94	AVG	
3		0.3659	15.65	9.80	25.45	58.59	-33.14	QP	
4		0.3659	4.53	9.80	14.33	48.59	-34.26	AVG	
5		1.7100	13.83	9.97	23.80	56.00	-32.20	QP	
6		1.7100	5.54	9.97	15.51	46.00	-30.49	AVG	
7		4.3658	19.15	10.04	29.19	56.00	-26.81	QP	
8		4.3658	9.10	10.04	19.14	46.00	-26.86	AVG	
9		8.0137	17.21	10.20	27.41	60.00	-32.59	QP	
10		8.0137	2.30	10.20	12.50	50.00	-37.50	AVG	
11		19.0853	15.34	10.11	25.45	60.00	-34.55	QP	
12		19.0853	6.18	10.11	16.29	50.00	-33.71	AVG	



## 5.4 Radiated spurious emission

#### 5.4.1 Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

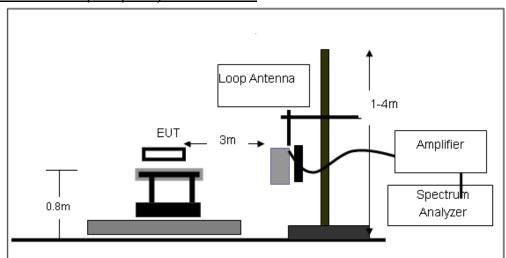
Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for	
band)	Average	

Receiver Parameter	Setting
Attenuation	Auto
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

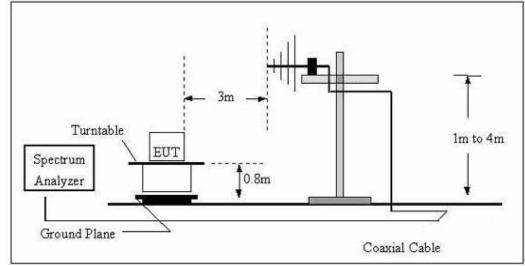


## 5.4.2 Test setup

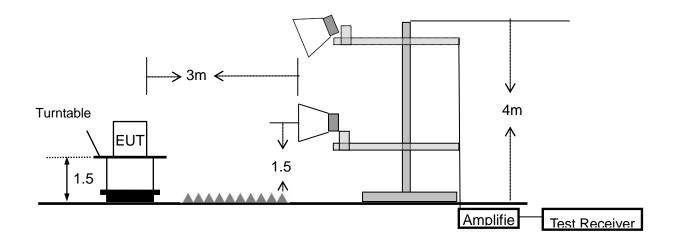
## Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



## Radiated emission test-up frequency above 1GHz



Tel:(86-755)88850135

Fax: (86-755) 88850136

Web: http://www.mtitest.com

E-mail: mti@51mti.com

Report No.: MTi190604E021

Address: No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China



#### 5.4.3 Test procedure

a. EUT operating conditions. The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: MTi190604E021

- b. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- c. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the floor on a support that is RF transparent for the frequencies of interest. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m.
- f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- h. For the actual test configuration, please refer to the related Item –EUT Test photos.

Note: Both horizontal and vertical antenna polarities were tested . The worst case emissions were reported.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ab 21/2 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



#### 5.4.4 Test results

#### 5.4.4.1 Radiation emission

## Below 30MHz

EUT:	True wireless earphones	Model Name:	A801-08
Temperature:	20 °C	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Pass
				Pass

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

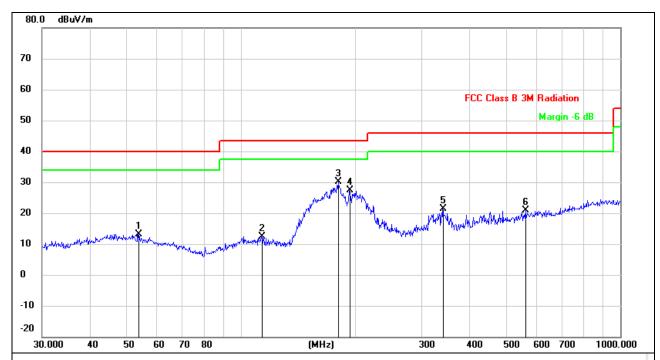


## Between 30MHz - 1GHz

Note1 : Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Note2: The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is  $\pi$  /4-DQPSK CH39

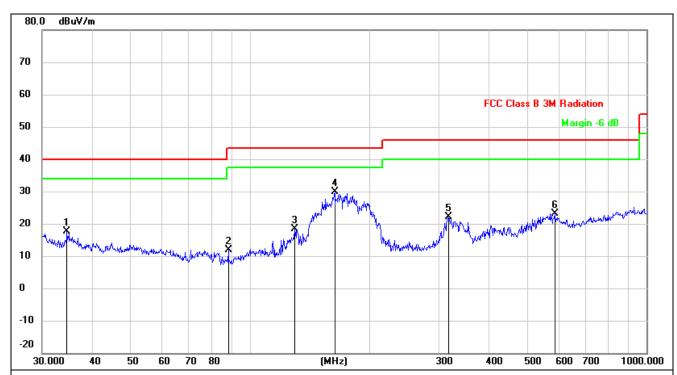
EUT :	True wireless earphones	Model Name :	A801-08
Relative Humidity:	72%	Phase:	н
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	[
		MHz	dBu∨	dBu∀/m	dBu∨/m	dBu∀/m	dB	Detector
1		53.6932	26.32	-13.13	13.19	40.00	-26.81	QP
2		113.3163	26.49	-14.08	12.41	43.50	-31.09	QP
3	*	180.6488	45.13	-15.08	30.05	43.50	-13.45	QP
4		193.0945	40.83	-13.53	27.30	43.50	-16.20	QP
5		340.7817	31.53	-10.13	21.40	46.00	-24.60	QP
6		562.6624	27.86	-6.99	20.87	46.00	-25.13	QP



EUT:	True wireless earphones	Model Name :	A801-08
Relative Humidity:	72%	Phase:	V
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dBuV/m	dBu∀/m	dBu√/m	dB	Detector
1		34.6385	31.99	-14.48	17.51	40.00	-22.49	QP
2		88.3421	28.10	-16.15	11.95	43.50	-31.55	QP
3		129.9225	35.67	-17.19	18.48	43.50	-25.02	QP
4	*	163.7550	45.86	-15.98	29.88	43.50	-13.62	QP
5		315.4808	32.97	-10.79	22.18	46.00	-23.82	QP
6		586.8437	29.63	-6.46	23.17	46.00	-22.83	QP



## 1G-25GHz

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

- (2) Emission Level= Antenna Factor + Cable Loss + Read Level Preamp Factor
- (3) All other emissions more than 20dB below the limit.

All the modulation modes have been tested, and the worst result was report as below:

Frequenc y	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	i		
	Low Channel (2402 MHz)(8DPSK)Above 1G									
4804.03	62.89	5.21	35.59	44.30	59.39	74.00	-14.61	Pk	Vertical	
4804.03	41.32	5.21	35.59	44.30	37.82	54.00	-16.18	AV	Vertical	
7206.27	60.46	6.48	36.27	44.60	58.61	74.00	-15.39	Pk	Vertical	
7206.27	44.74	6.48	36.27	44.60	42.89	54.00	-11.11	AV	Vertical	
4804.11	61.25	5.21	35.55	44.30	57.71	74.00	-16.29	Pk	Horizontal	
4804.11	42.59	5.21	35.55	44.30	39.05	54.00	-14.95	AV	Horizontal	
7206.22	64.12	6.48	36.27	44.52	62.35	74.00	-11.65	Pk	Horizontal	
7206.22	48.31	6.48	36.27	44.52	46.54	54.00	-7.46	AV	Horizontal	
			Mid Cha	nnel (2441 l	MHz)(8DPS	SK)Above	1G			
4882.4	64.00	5.21	35.66	44.20	60.67	74.00	-13.33	Pk	Vertical	
4882.4	42.58	5.21	35.66	44.20	39.25	54.00	-14.75	AV	Vertical	
7323.24	60.67	7.10	36.50	44.43	59.84	74.00	-14.16	Pk	Vertical	
7323.24	47.75	7.10	36.50	44.43	46.92	54.00	-7.08	AV	Vertical	
4882.11	60.93	5.21	35.66	44.20	57.60	74.00	-16.40	Pk	Horizontal	
4882.11	48.92	5.21	35.66	44.20	45.59	54.00	-8.41	AV	Horizontal	
7323.13	61.14	7.10	36.50	44.43	60.31	74.00	-13.69	Pk	Horizontal	
7323.13	42.30	7.10	36.50	44.43	41.47	54.00	-12.53	AV	Horizontal	
			High Cha	nnel (2480 l	MHz)(8DPS	SK) Above	e 1G			
4960.4	65.92	5.21	35.52	44.21	62.44	74.00	-11.56	Pk	Vertical	
4960.4	43.61	5.21	35.52	44.21	40.13	54.00	-13.87	AV	Vertical	
7440.2	62.40	7.10	36.53	44.60	61.43	74.00	-12.57	Pk	Vertical	
7440.2	45.41	7.10	36.53	44.60	44.44	54.00	-9.56	AV	Vertical	
4960.23	67.39	5.21	35.52	44.21	63.91	74.00	-10.09	Pk	Horizontal	
4960.23	47.22	5.21	35.52	44.21	43.74	54.00	-10.26	AV	Horizontal	
7440.3	61.04	7.10	36.53	44.60	60.07	74.00	-13.93	Pk	Horizontal	
7440.3	45.23	7.10	36.53	44.60	44.26	54.00	-9.74	AV	Horizontal	



## 5.4.4.2 Band edge - radiated

All the modulation modes have been tested, and the worst result was report as below:

			CON LOGICO	<i>.</i>		Trac report	40 DOIO111.		
Frequenc	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector	<u>ا</u> .
У	Reading	Loss	Factor	Factor	Level				Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			1	Mbps (8DP	SK)-hoppin	g			
2310.00	56.36	2.97	27.80	43.80	43.33	74	-30.67	Pk	Horizontal
2310.00	44.54	2.97	27.80	43.80	31.51	54	-22.49	AV	Horizontal
2310.00	59.71	2.97	27.80	43.80	46.68	74	-27.32	Pk	Vertical
2310.00	42.58	2.97	27.80	43.80	29.55	54	-24.45	AV	Vertical
2390.00	59.52	3.14	27.21	43.80	46.07	74	-27.93	Pk	Vertical
2390.00	41.97	3.14	27.21	43.80	28.52	54	-25.48	AV	Vertical
2390.00	58.04	3.14	27.21	43.80	44.59	74	-29.41	Pk	Horizontal
2390.00	43.45	3.14	27.21	43.80	30.00	54	-24.00	AV	Horizontal
2483.50	58.07	3.58	27.70	44.00	45.35	74	-28.65	Pk	Vertical
2483.50	43.75	3.58	27.70	44.00	31.03	54	-22.97	AV	Vertical
2483.50	59.51	3.58	27.70	44.00	46.79	74	-27.21	Pk	Horizontal
2483.50	42.26	3.58	27.70	44.00	29.54	54	-24.46	AV	Horizontal
			1Mb	ps(8DPSK	)- Non-hop	ping			
2310.00	56.36	2.97	27.80	43.80	43.33	74	-30.67	Pk	Horizontal
2310.00	43.45	2.97	27.80	43.80	30.42	54	-23.58	AV	Horizontal
2310.00	58.16	2.97	27.80	43.80	45.13	74	-28.87	Pk	Vertical
2310.00	42.61	2.97	27.80	43.80	29.58	54	-24.42	AV	Vertical
2390.00	58.00	3.14	27.21	43.80	44.55	74	-29.45	Pk	Vertical
2390.00	42.84	3.14	27.21	43.80	29.39	54	-24.61	AV	Vertical
2390.00	58.00	3.14	27.21	43.80	44.55	74	-29.45	Pk	Horizontal
2390.00	41.94	3.14	27.21	43.80	28.49	54	-25.51	AV	Horizontal
2483.50	57.55	3.58	27.70	44.00	44.83	74	-29.17	Pk	Vertical
2483.50	43.28	3.58	27.70	44.00	30.56	54	-23.44	AV	Vertical
2483.50	59.52	3.58	27.70	44.00	46.80	74	-27.20	Pk	Horizontal
2483.50	42.01	3.58	27.70	44.00	29.29	54	-24.71	AV	Horizontal



## 5.4.4.3 Spurious Emission in Restricted Band 3260MHz-18000MHz

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ V/m)	(dB)	Туре	Comment
3260	60.21	4.04	29.57	44.70	49.12	74	-24.88	Pk	Vertical
3260	50.02	4.04	29.57	44.70	38.93	54	-15.07	AV	Vertical
3260	62.70	4.04	29.57	44.70	51.61	74	-22.39	Pk	Horizontal
3260	51.25	4.04	29.57	44.70	40.16	54	-13.84	AV	Horizontal
3332	64.74	4.26	29.87	44.40	54.47	74	-19.53	Pk	Vertical
3332	53.82	4.26	29.87	44.40	43.55	54	-10.45	AV	Vertical
3332	63.41	4.26	29.87	44.40	53.14	74	-20.86	Pk	Horizontal
3332	53.70	4.26	29.87	44.40	43.43	54	-10.57	AV	Horizontal
17797	43.62	10.99	43.95	43.50	55.06	74	-18.94	Pk	Vertical
17797	32.34	10.99	43.95	43.50	43.78	54	-10.22	AV	Vertical
17788	43.84	11.81	43.69	44.60	54.74	74	-19.26	Pk	Horizontal
17788	31.59	11.81	43.69	44.60	42.49	54	-11.51	AV	Horizontal



## 5.5 20dB occupied channel bandwidth

#### 5.5.1 Limit

FCC Part15 (15.247), Subpart C							
Section Test Item		Limit	Frequency Range (MHz)				
15.247a(1)	20dB bandwidth	N/A	2400-2483.5				

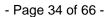
## 5.5.2 Test setup



#### 5.5.3 Test procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
  Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

#### 5.5.4 Test results





Test data

EUT:	True wireless earphones	Model Name :	A801-08
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V by battery

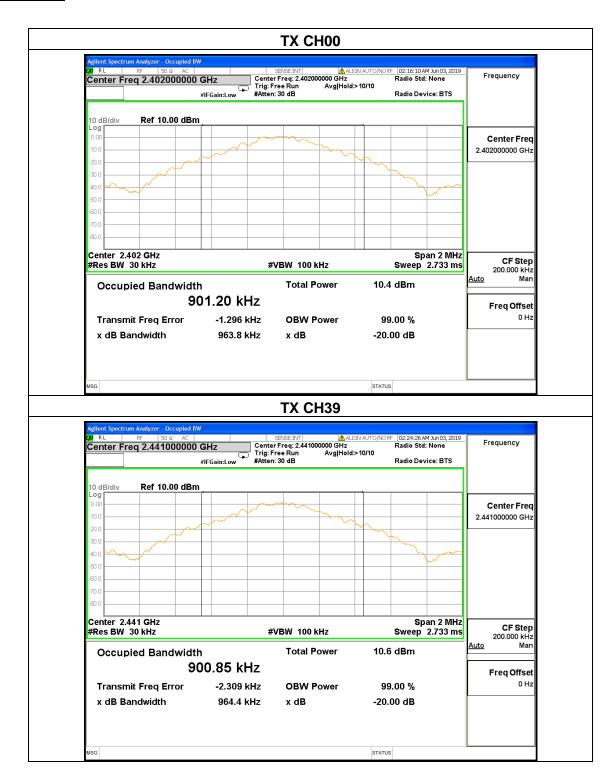
Report No.: MTi190604E021

Mode	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Result
	2402	0.9638	N/A	Pass
GFSK	2441	0.9644	N/A	Pass
	2480	0.9633	N/A	Pass
	2402	1.369	N/A	Pass
π/4-DQPSK	2441	1.371	N/A	Pass
	2480	1.368	N/A	Pass
	2402	1.352	N/A	Pass
8DPSK	2441	1.353	N/A	Pass
	2480	1.352	N/A	Pass

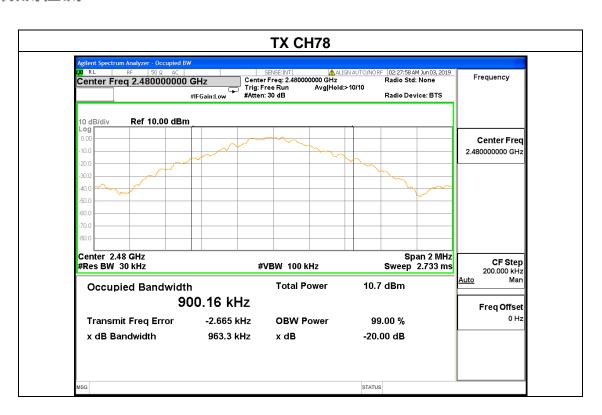


#### Test plots

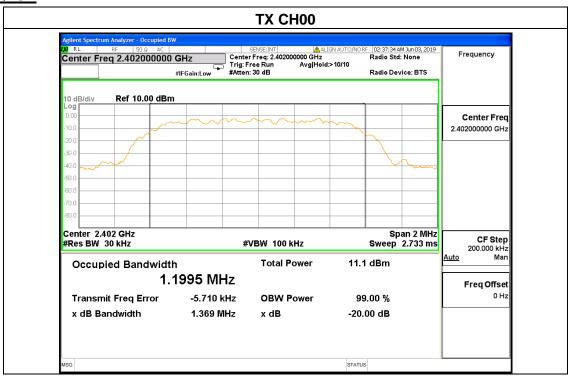
## **GFSK mode**



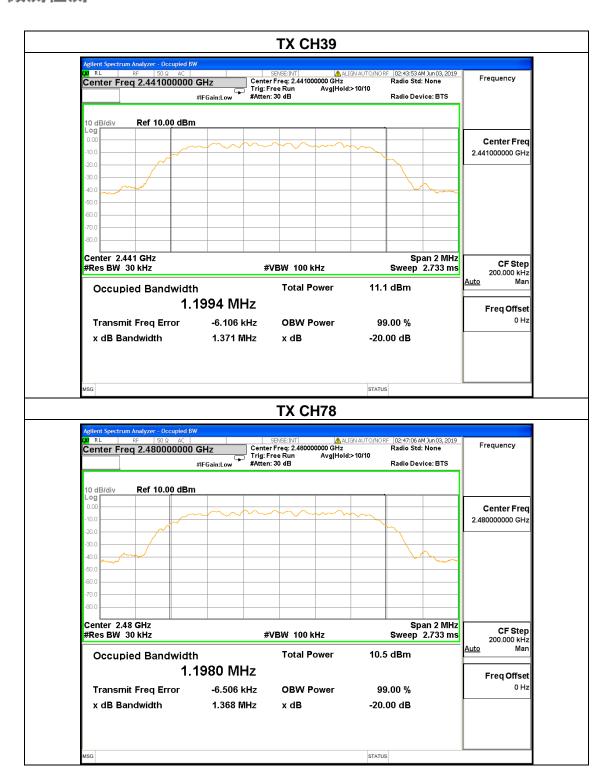




## π/4-DQPSK





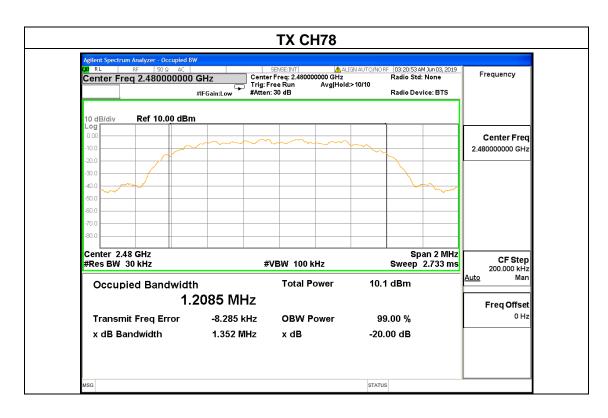




### 8DPSK mode









### 5.6 Carrier frequency separation

#### 5.6.1 Limit

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz)					
15.247(a)(1)	Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth (Which is greater)	2400-2483.5		

### 5.6.2 Test setup



# 5.6.3 Test procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=30 kHz, VBW=100 kHz, detector= Peak, Sweep Time =auto.
- (3) The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Test.

#### 5.6.4 Test results

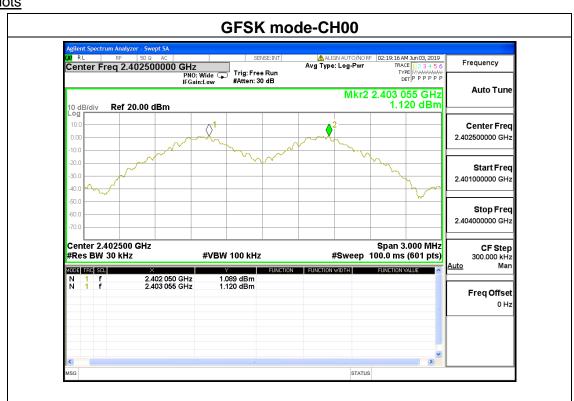


# Test data

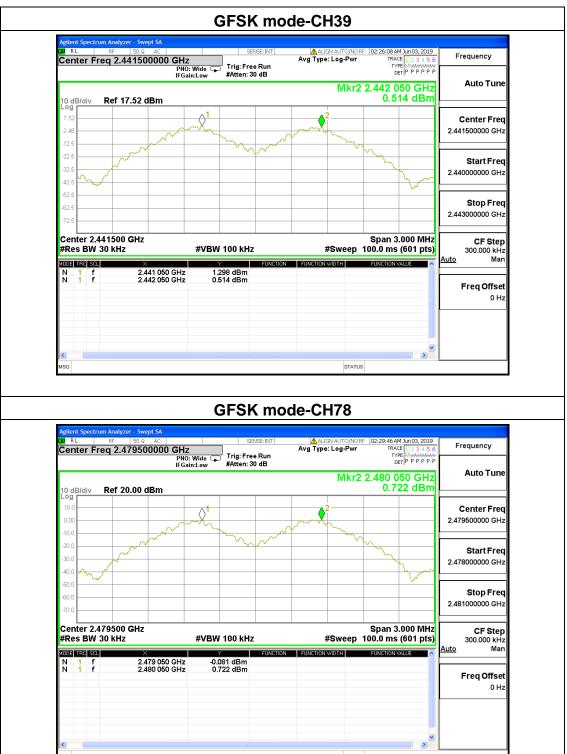
EUT:	True wireless earphones	Model Name :	A801-08	
Temperature :	25 °C	Relative Humidity:	60%	
Pressure :	012 hPa Test Voltage : DC 3.7V by battery			
Test Mode :	GFSK, π/4-DQPSK, 8DPSK /CH00, CH39, CH78			

Mode	Channel	Frequency (MHz)	Test Result	Limit (kHz)		Result
	Low	2402	1005	642.533	2/3 of 20dB BW	Pass
GFSK	Middle	2441	1000	642.933	2/3 of 20dB BW	Pass
	High	2480	1000	642.200	2/3 of 20dB BW	Pass
	Low	2402	1000	912.667	2/3 of 20dB BW	Pass
π/4-DQPSK	Middle	2441	1000	914.000	2/3 of 20dB BW	Pass
	High	2480	995	912.000	2/3 of 20dB BW	Pass
	Low	2402	1000	901.333	2/3 of 20dB BW	Pass
8DPSK	Middle	2441	1000	902.000	2/3 of 20dB BW	Pass
	High	2480	1180	901.333	2/3 of 20dB BW	Pass

### Test plots

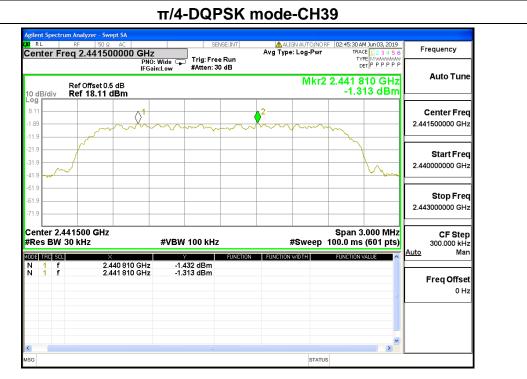












Freq Offset 0 Hz



π/4-DQPSK mode-CH78 Agilent Spectrum Anny

RL RF 50 2 AC |

Center Freq 2.479500000 GHz

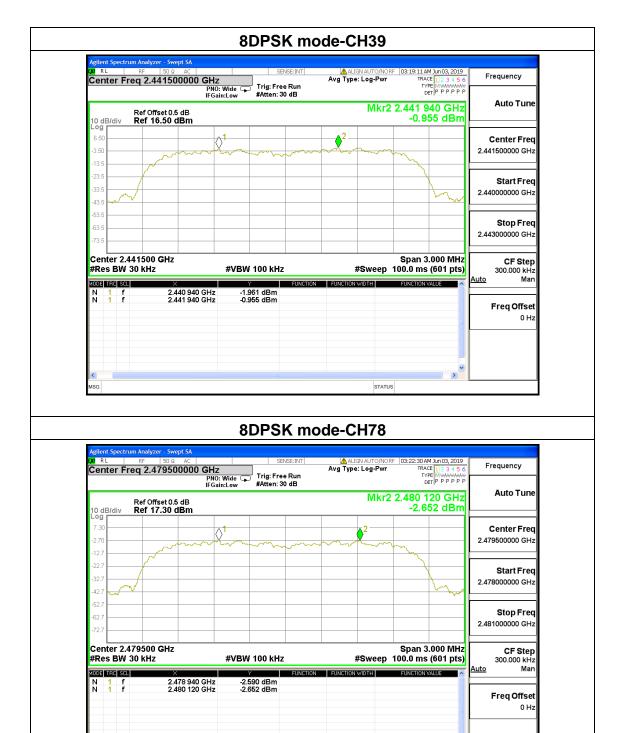
PNO: Wide 

IFGaint.ow Avg Type: Log-Pwr Frequency Trig: Free Run #Atten: 30 dB Auto Tun Mkr2 2.479 810 GHz -1.976 dBm Ref Offset 0.5 dB Ref 17.93 dBm Center Fred 2.479500000 GH: Start Freq 2.478000000 GH Stop Freq 2.481000000 GHz CF Step 300.000 kHz Man Span 3.000 MHz #Sweep 100.0 ms (601 pts) Center 2.479500 GHz #Res BW 30 kHz **#VBW 100 kHz** ODE TRC SCL 2.478 815 GHz 2.479 810 GHz -1.989 dBm -1.976 dBm Freq Offset 0 Hz 8DPSK mode-CH00 ALIGN AUTO/NORF 03:16:08 AM Jun 03, 2019

Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Center Freq 2.402500000 GHz
PN0: Wide IFGain:Low #Atten: 30 dB Frequency Auto Tune Mkr2 2.402 940 GHz Ref Offset 0.5 dB Ref 18.80 dBm -2.072 dBm Center Fred 2.402500000 GH: Start Fred 2.401000000 GHz Stop Freq 2.404000000 GH Center 2.402500 GHz #Res BW 30 kHz Span 3.000 MHz #Sweep 100.0 ms (601 pts) CF Step **#VBW 100 kHz** 300.000 kH -1.177 dBm -2.072 dBm

2.401 940 GHz 2.402 940 GHz







### 5.7 Hopping Channel

#### 5.7.1 Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

### 5.7.2 Test setup

FUT	Spectrum
_ EU1	Analyzer

### 5.7.3 Test procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW

Sweep = auto

Detector function = peak

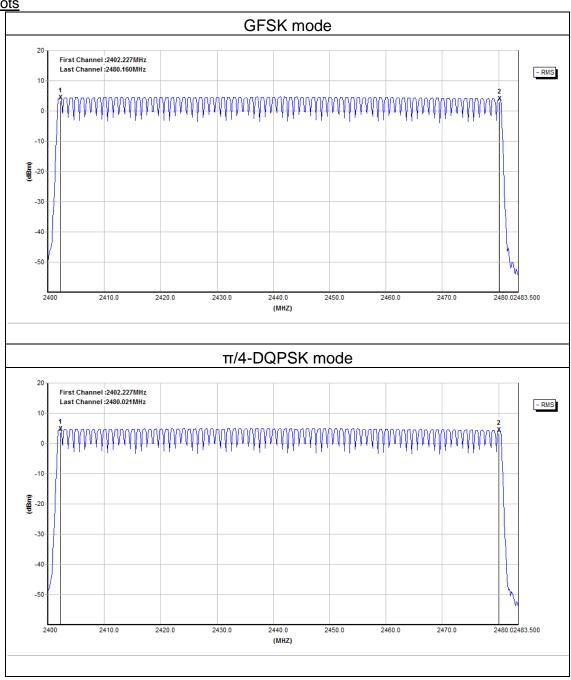
Trace = max hold

5.7.4 Test results

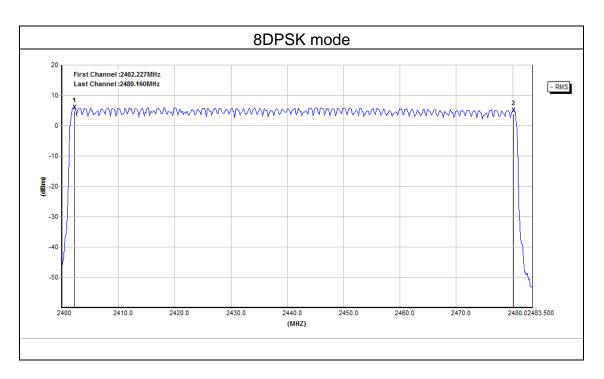


Mode	Quantity of Hopping Channel	Limit	Results
GFSK, π/4-DQPSK, 8DPSK	79	>15	Pass











#### 5.8 Dwell time

#### 5.8.1 Limit

FCC Part15 (15.247), Subpart C				
Section Test Item Limit Frequency Range (MHz)				
15.247(a)(a)	Dwell time	0.4 sec	2400-2483.5	

#### 5.8.2 Test setup



#### 5.8.3 Test procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) The EUT was set to the Hopping Mode for Dwell Time Test

#### 5.8.4 Test results



### Test data

EUT:	True wireless earphones	Model Name :	A801-08	
Temperature :	25 °C	Relative Humidity:	60%	
Pressure :	1012 hPa Test Voltage : DC 3.7V by battery			
Test Mode :	GFSK, π/4-DQPSK, 8DPSK /CH39			

Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit(s)	Conclusion
	DH1	2441	0.38	121.60	<0.4	Pass
GFSK	DH3	2441	1.64	262.40	<0.4	Pass
	DH5	2441	2.89	308.27	<0.4	Pass
	2DH1	2441	0.38	121.60	<0.4	Pass
π/4 DQPSK	2DH3	2441	1.64	262.40	<0.4	Pass
	2DH5	2441	2.89	308.27	<0.4	Pass
	3DH1	2441	0.39	124.80	<0.4	Pass
8DPSK	3DH3	2441	1.64	262.40	<0.4	Pass
	3DH5	2441	2.90	309.33	<0.4	Pass

Note1: A period time = 0.4 (s) \* 79 = 31.6(s)

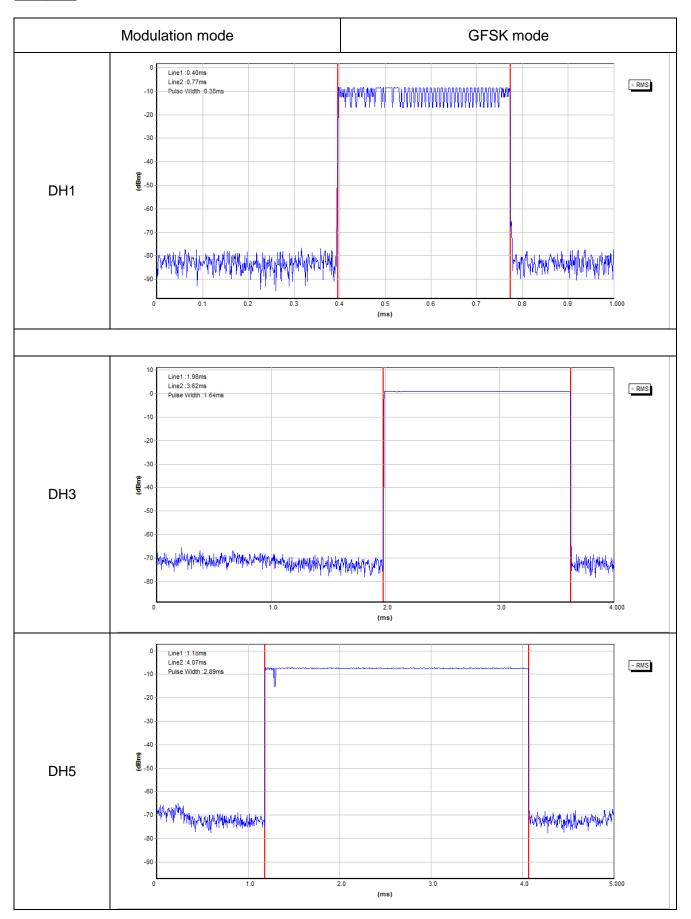
Note2:

DH1 time slot = Pulse Duration \* (1600/(2\*79)) \* A period time DH3 time slot = Pulse Duration \* (1600/(4\*79)) \* A period time DH5 time slot = Pulse Duration \* (1600/(6\*79)) \* A period time

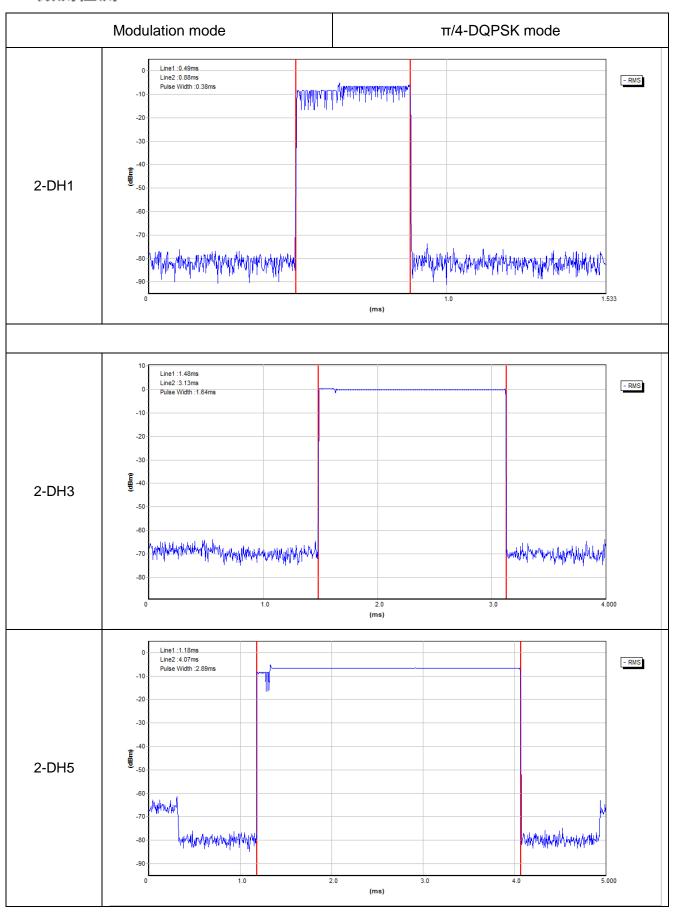
Note3: For GFSK, π/4-DQPSK and 8DPSK: The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s



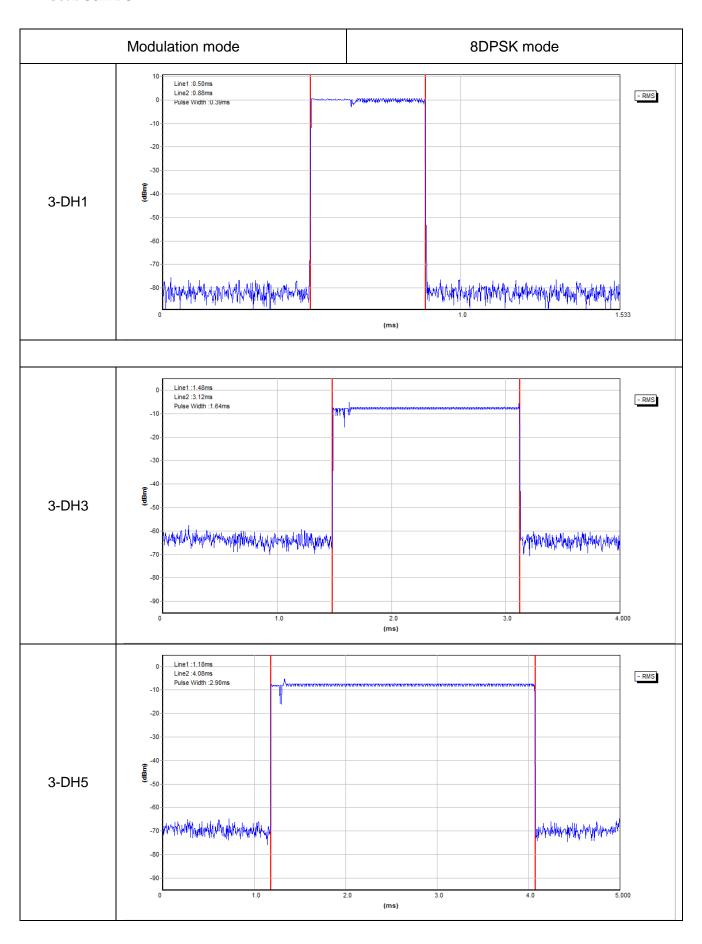
# Test plots













### 5.9 Conducted band edge

#### 5.9.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 5.9.2 Test setup

FUT	Spectrum
	Analyzer

#### 5.9.3 Test procedure

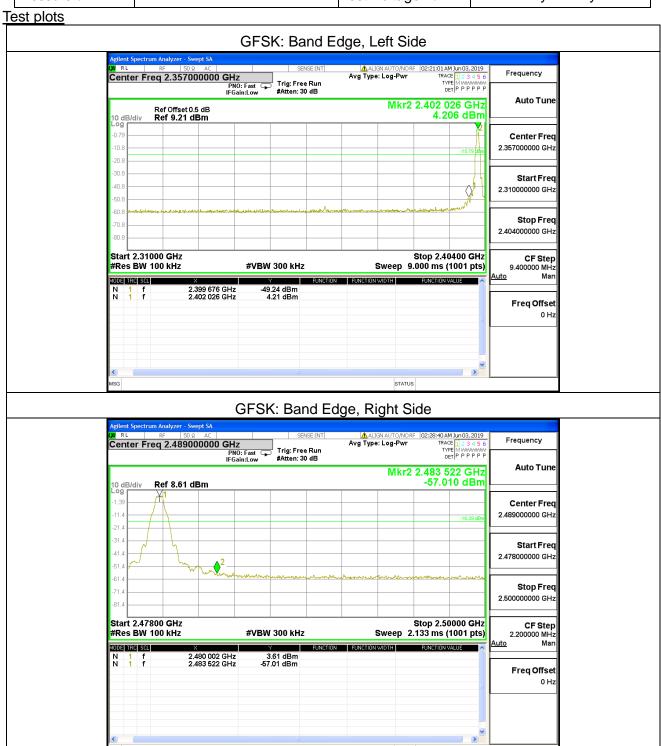
- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

#### 5.9.4 Test results



Test data

EUT:	True wireless earphones	Model Name :	A801-08
Temperature :	25 °C	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V by battery



Freq Offset 0 Hz



π/4-DQPSK: Band Edge, Left Side ALIGN AUTO/NORF 02:38:29 AM Jun 03, 2019

Avg Type: Log-Pwr TRACE 12:3:4:5:6

TYPE MWWWWW.

DET P P P P P P Center Freq 2.357000000 GHz
PN0: Fast PRGain:Low #Atten: 30 dB Frequency Auto Tune Mkr2 2.402 026 GHz 2.772 dBm Ref 7.73 dBm Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz Stop 2.40400 GHz Sweep 9.000 ms (1001 pts) Start 2.31000 GHz #Res BW 100 kHz **CF Step** 9.400000 MHz **#VBW** 300 kHz 2.399 958 GHz 2.402 026 GHz -46.62 dBm 2.77 dBm Freq Offset 0 Hz π/4-DQPSK: Band Edge, Right Side Agilent Spectrumonemy

RL RF 50 \( \tilde{\Omega} \) AC

Center Freq 2.489000000 GHz

PN0: Fast Figure 1.0 Fig ALIGN AUTO/NO Avg Type: Log-Pwr Frequency Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.483 522 GHz Ref 7.17 dBm Center Fred 2.489000000 GHz Start Freq 2.478000000 GHz Stop Freq 2.500000000 GHz Start 2.47800 GHz #Res BW 100 kHz Stop 2.50000 GHz Sweep 2.133 ms (1001 pts) CF Step 2.200000 MHz

**#VBW** 300 kHz

2.21 dBm -55.94 dBm

2.480 046 GHz 2.483 522 GHz

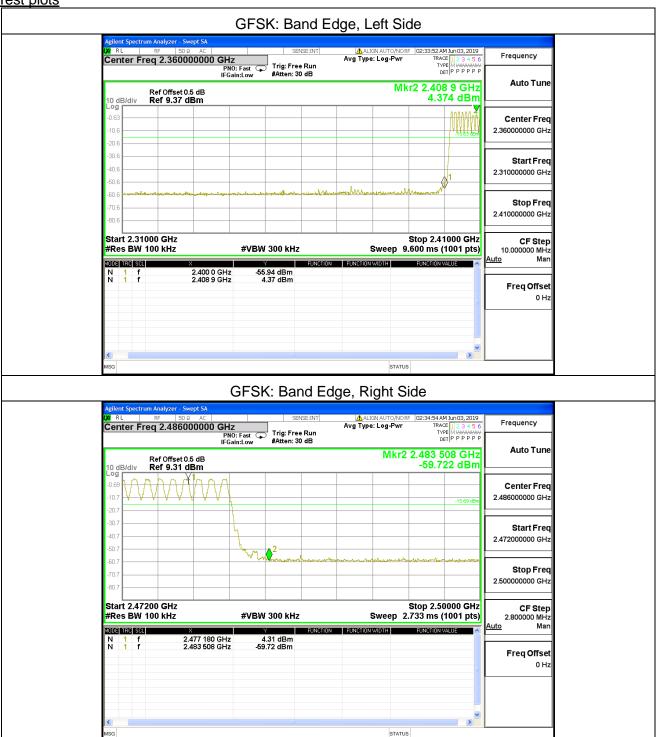






# **Hopping Mode**















### 5.10 Spurious RF Conducted Emissions

#### 5.10.1 Conformance Limit

Below -20dB of the highest emission level in operating band.

# 5.10.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 5.10.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 5.10.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 9KHz to 26.5GHz.

#### 5.10.5 Test Results

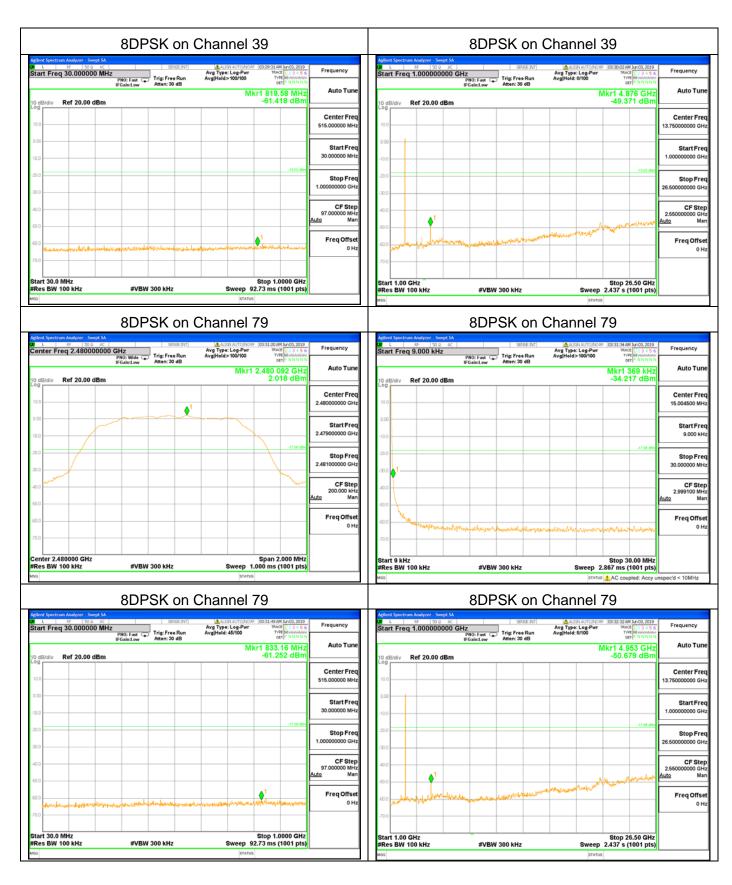
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

The worst mode is 8DPSK mode, and the report only show the worst mode data.







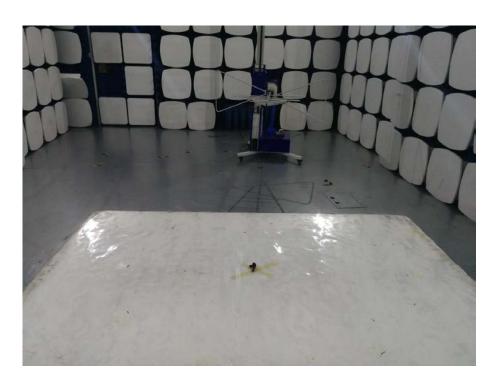




Photographs of the Test Setup

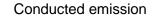
# Radiated emission

Report No.: MTi190604E021













# Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report No.: MTi190604E021-1.

----END OF REPORT----