

FCC Part 15C Test Report

FCC ID:2AH77DJ-500

Product Name:	DJ-500
Trademark:	N/A
Model Name :	DJ-500
Prepared For :	Beijing Djlink Technology Co.,Ltd
Address :	Room 502A, Building E Yingchuangdongli, No.1 Shangdi East Street, Haidian District, Beijing, China, 100085
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Apr. 22 - Apr. 29, 2016
Date of Report :	Apr. 29, 2016
Report No.:	BCTC-160404066E



TEST RESULT CERTIFICATION

Applicant's name: Beijing	g Djiink	lecnnology	CO.,Lto
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Address: Room 502A, Building E Yingchuangdongli, No.1 Shangdi East

Street, Haidian District, Beijing, China, 100085

Report No.: BCTC-160404066E

Manufacture's Name.....: Beijing Dilink Technology Co.,Ltd

Address: Room 502A, Building E Yingchuangdongli, No.1 Shangdi East

Street, Haidian District, Beijing, China, 100085

Product description

Serial Model...... N/A

Tacting Engineer

Test Standards FCC Part15.247

ANSI C63.10-2013

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Frie Yand

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FCC Report

Tel: 400-788-9558 0755-33019988

Web:Http//www.bctc-lab.com.cn

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Power Spectral Density	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

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%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Serial Model N/A Model Difference N/A Th Op	J-500 /A /A he EUT is a DJ-500		
Serial Model N/A Model Difference N/A Th Op	/A /A he EUT is a DJ-500		
Model Difference N/A Th Op	/A he EUT is a DJ-500		
Th O _I Mo	he EUT is a DJ-500		
O _I			
Me			
	peration Frequency:	802.11b/g/n20MHz:2412~2462 MHz	
Bi	odulation Type:	OFDM/DSSS	
	it Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20):Up to 72Mbps	
Nu	lumber Of Channel:	11 CH, Please see Note 2.	
Product Description Ar	ntenna Designation:	Please see Note 3.	
	Output Power(Conducted,AV):	802.11b: 15.85dBm (Max.) 802.11g: 14.52 dBm (Max.) 802.11n(20M) : 12.64dBm (Max.)	
Ar	Antenna Gain (dBi): 1.0dbi		
Us De	ser's Manual, the EUT	n, features, or specification exhibited in is considered as an ITE/Computing EUT technical specification, please ual.	
Channel List Ple	Please refer to the Note 2.		
Adapter N/.	/A		
Battery N/.	/A		
Connecting I/O Port(s) Ple	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List for 802.11b/g/n(20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		





3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
Α	N/A	N/A	PCB Antenna	1.0	Wifi Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	Link Mode

	For Conducted Emission
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission					
Final Test Mode	Description				
Mode 1	802.11b CH1/ CH6/ CH11				
Mode 2	802.11g CH1/ CH6/ CH11				
Mode 3	802.11n CH1/ CH6/ CH11				

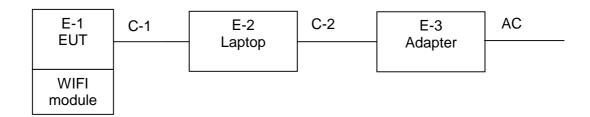
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



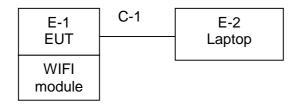
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Report No.: BCTC-160404066E

Radiated Spurious Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Report No.: BCTC-160404066E

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	DJ-500	N/A	DJ-500	N/A	EUT
E-2	Laptop	N/A	X550C	N/A	
E-3	Adapter	N/A	AD887520	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	USB cable unshielded

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 <code>[Length]</code> column.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment		. 71		calibration	until	period
1	Spectrum Analyzer	Agilent	E4407B	MY4510957 2	2015.08.25	2016.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2015.08.25	2016.08.24	1 year
3	Bilog Antenna	SCHWARZB ECK	VULB9160	VULB9160- 3369	2015.08.25	2016.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	SCHWARZB ECK	9120D	9120D-1275	2015.08.25	2016.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2015.08.25	2016.08.24	1 year
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2015.08.25	2016.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
13	RF cables	R&S	N/A	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101421	2015.08.25	2016.08.24	1 year
2	LISN	SCHWARZB ECK	NSLK8127	812779	2015.08.25	2016.08.24	1 year
3	LISN	EMCO	Feb-16	42990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCT (IVITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

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		



3.1.2 TEST PROCEDURE

a. 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.

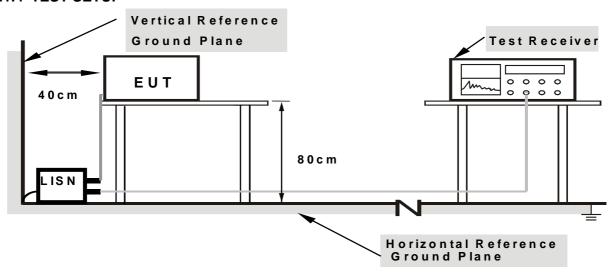
Report No.: BCTC-160404066E

- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



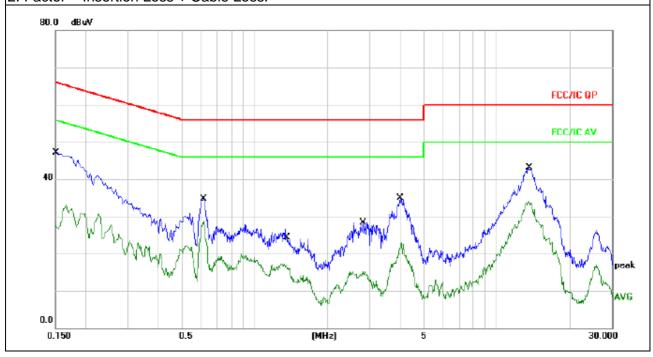
3.1.6 TEST RESULTS

Temperature:	25℃	Relative Humidity:	54%	
Pressure :	1010hPa	Phase :	L	
Test Voltage :	AC120V/60Hz DC5V from laptop adapter	Test Mode:	Link Mode	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1499	36.98	10.05	47.03	66.00	-18.97	QP
0.1499	22.78	10.05	32.83	56.00	-23.17	AVG
0.6139	24.51	10.13	34.64	56.00	-21.36	QP
0.6139	18.65	10.13	28.78	46.00	-17.22	AVG
1.3580	14.22	10.17	24.39	56.00	-31.61	QP
1.3580	7.09	10.17	17.26	46.00	-28.74	AVG
2.8100	18.20	10.19	28.39	56.00	-27.61	QP
2.8100	5.05	10.19	15.24	46.00	-30.76	AVG
4.0019	24.74	10.16	34.90	56.00	-21.10	QP
4.0019	7.77	10.16	17.93	46.00	-28.07	AVG
13.6819	32.91	10.14	43.05	60.00	-16.95	QP
13.6819	23.61	10.14	33.75	50.00	-16.25	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





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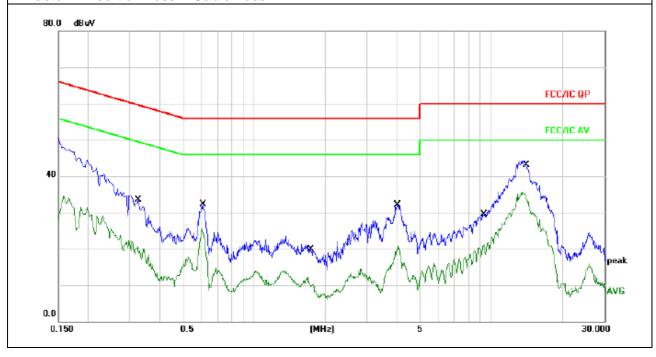
Temperature:	25 ℃	Relative Humidity:	54%
	1010hPa	Phase :	N
Test Voltage :	AC120V/60Hz DC5V from laptop adapter	Test Mode :	Link Mode

Report No.: BCTC-160404066E

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.3260	23.46	10.10	33.56	59.55	-25.99	QP
0.3260	12.24	10.10	22.34	49.55	-27.21	AVG
0.6097	22.20	10.13	32.33	56.00	-23.67	QP
0.6097	15.63	10.13	25.76	46.00	-20.24	AVG
1.7419	9.72	10.18	19.90	56.00	-36.10	QP
1.7419	-0.51	10.18	9.67	46.00	-36.33	AVG
4.0220	21.95	10.16	32.11	56.00	-23.89	QP
4.0220	10.54	10.16	20.70	46.00	-25.30	AVG
9.2378	19.39	10.12	29.51	60.00	-30.49	QP
9.2378	15.62	10.12	25.74	50.00	-24.26	AVG
14.0899	33.02	10.14	43.16	60.00	-16.84	QP
14.0899	23.77	10.14	33.91	50.00	-16.09	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

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Frequencies	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		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	4 Mile / 4 Mile for Dook 4 Mile / 40//=for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for 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



3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

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- b. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

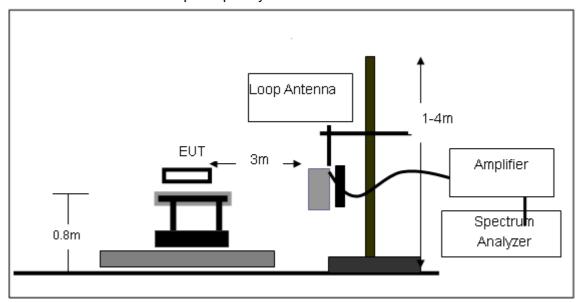
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

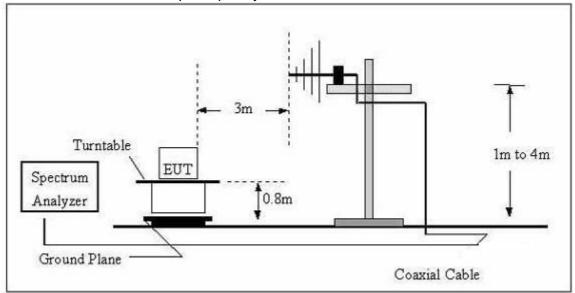


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



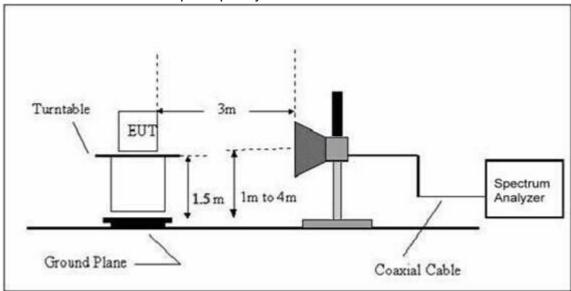
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 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.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC5V from laptop
Test Mode:	Link Mode	Polarization :	

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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.



3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

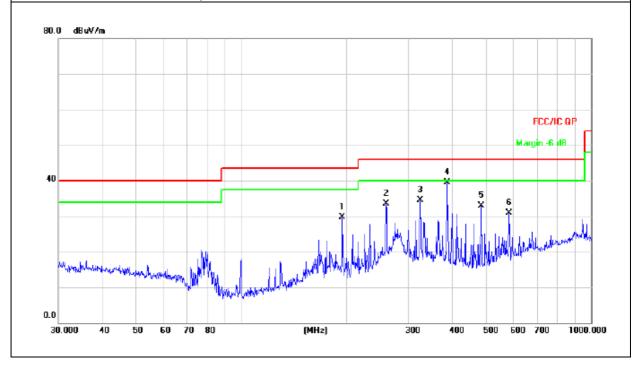
Temperature :	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Horizontal
Test Voltage :	DC5V from laptop		
Test Mode :	Link Mode		

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
194.4534	45.63	-15.86	29.77	43.50	-13.73	QP
259.2338	47.54	-13.94	33.60	46.00	-12.40	QP
324.4561	46.46	-11.95	34.51	46.00	-11.49	QP
387.9920	49.96	-10.47	39.49	46.00	-6.51	QP
485.6093	41.21	-8.36	32.85	46.00	-13.15	QP
582.7425	37.20	-6.20	31.00	46.00	-15.00	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





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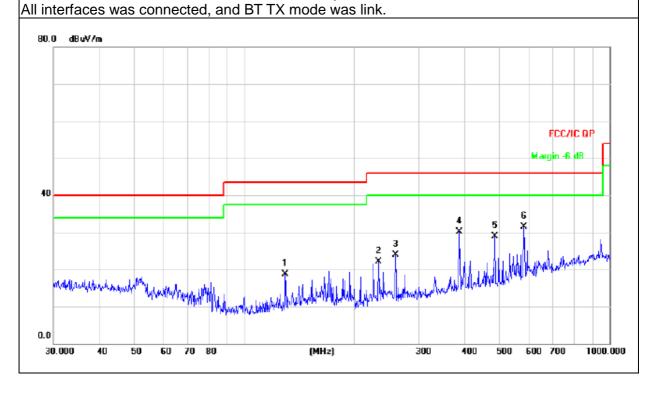
Temperature :	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	DC5V from laptop		
Test Mode :	Link Mode		

Report No.: BCTC-160404066E

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	ηΗz) (dBμV)		(dBµV/m)	(dBµV/m)	(dB)	Detector Type
129.4678	32.91	-14.14	18.77	43.50	-24.73	QP
232.5318	36.94	-14.91	22.03	46.00	-23.97	QP
259.2338	37.76	-13.94	23.82	46.00	-22.18	QP
387.9920	40.65	-10.47	30.18	46.00	-15.82	QP
485.6093	37.22	-8.36	28.86	46.00	-17.14	QP
582.7425	37.67	-6.20	31.47	46.00	-14.53	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

802.11b

Report No.: BCTC-160404066E

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		or	peration fre	quency:2412			
V	4824.00	44.75	19.36	64.11	74	-9.89	Pk
V	4824.00	25.67	19.36	45.03	54	-8.97	AV
V	7236.00	46.49	17.17	63.66	74	-10.34	Pk
V	7236.00	25.43	17.17	42.60	54	-11.40	AV
V	11650.00	24.22	17.81	42.03	74	-31.97	Pk
V	17850.00	18.41	25.39	43.80	74	-30.20	Pk
Н	4824.00	45.35	19.36	64.71	74	-9.29	Pk
Н	4824.00	26.05	19.36	45.41	54	-8.59	AV
Н	7236.00	47.08	17.17	64.25	74	-9.75	Pk
Н	7236.00	26.31	17.17	43.48	54	-10.52	AV
Н	11650.00	24.45	17.81	42.26	74	-31.74	Pk
Н	17850.00	19.12	25.39	44.51	74	-29.49	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level

Other harmonics emissions are lower than 20dB below the allowable limit.

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		0	peration fre	quency:2437			
V	4874.00	45.06	19.42	64.48	74	-9.52	Pk
V	4874.00	24.85	19.42	44.27	54	-9.73	AV
V	7311.00	47.16	17.19	64.35	74	-9.65	Pk
V	7311.00	26.35	17.19	43.54	54	-10.46	AV
V	11650.00	24.24	17.81	42.05	74	-31.95	Pk
V	17850.00	19.11	25.39	44.50	74	-29.50	Pk
Н	4874.00	44.72	19.42	64.14	74	-9.86	Pk
Н	4874.00	26.33	19.42	45.75	54	-8.25	AV
Н	7311.00	47.49	17.19	64.68	74	-9.32	Pk
Н	7311.00	27.28	17.19	44.47	54	-9.53	AV
Н	11650.00	24.62	17.81	42.43	74	-31.57	Pk
Н	17850.00	18.86	25.39	44.25	74	-29.75	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level



802.11b

Normal Voltage

Report No.: BCTC-160404066E

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(11/1/)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	туре
		O	peration fre	equency:2462			
V	4924.00	45.74	19.47	65.21	74	-8.79	Pk
V	4924.00	25.27	19.47	44.74	54	-9.26	AV
V	7386.00	47.36	17.22	64.58	74	-9.42	Pk
V	7386.00	26.54	17.22	43.76	54	-10.24	AV
V	11650.00	24.12	17.81	41.93	74	-32.07	Pk
V	17850.00	18.23	25.39	43.62	74	-30.38	Pk
Н	4924.00	45.61	19.47	65.08	74	-8.92	Pk
Н	4924.00	26.19	19.47	45.66	54	-8.34	AV
Н	7386.00	46.35	17.22	63.57	74	-10.43	Pk
Н	7386.00	26.62	17.22	43.84	54	-10.16	AV
Н	11650.00	24.36	17.81	42.17	74	-31.83	Pk
Н	17850.00	18.48	25.39	43.87	74	-30.13	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level



802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		op	eration fre	quency:2412			
V	4824.00	44.37	19.36	63.73	74	-10.27	Pk
V	4824.00	25.42	19.36	44.78	54	-9.22	AV
V	7236.00	46.31	17.17	63.48	74	-10.52	Pk
V	7236.00	25.28	17.17	42.45	54	-11.55	AV
V	11650.00	24.14	17.81	41.95	74	-32.05	Pk
V	17850.00	18.36	25.39	43.75	74	-30.25	Pk
Н	4824.00	45.49	19.36	64.85	74	-9.15	Pk
Н	4824.00	26.21	19.36	45.57	54	-8.43	AV
Н	7236.00	47.18	17.17	64.35	74	-9.65	Pk
Н	7236.00	26.22	17.17	43.39	54	-10.61	AV
Н	11650.00	24.34	17.81	42.15	74	-31.85	Pk
Н	17850.00	19.08	25.39	44.47	74	-29.53	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level

Other harmonics emissions are lower than 20dB below the allowable limit.

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		0	peration fre	quency:2437			
V	4874.00	45.16	19.42	64.58	74	-9.42	Pk
V	4874.00	24.73	19.42	44.15	54	-9.85	AV
V	7311.00	47.52	17.19	64.71	74	-9.29	Pk
V	7311.00	26.34	17.19	43.53	54	-10.47	AV
V	11650.00	24.21	17.81	42.02	74	-31.98	Pk
V	17850.00	19.26	25.39	44.65	74	-29.35	Pk
Н	4874.00	44.61	19.42	64.03	74	-9.97	Pk
Н	4874.00	26.23	19.42	45.65	54	-8.35	AV
Н	7311.00	47.44	17.19	64.63	74	-9.37	Pk
Н	7311.00	27.21	17.19	44.40	54	-9.60	AV
Н	11650.00	24.37	17.81	42.18	74	-31.82	Pk
Η	17850.00	18.58	25.39	43.97	74	-30.03	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level



802.11g

Report No.: BCTC-160404066E

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		ор	eration fre	quency:2462			
V	4924.00	45.83	19.47	65.30	74	-8.70	Pk
V	4924.00	25.24	19.47	44.71	54	-9.29	AV
V	7386.00	47.32	17.22	64.54	74	-9.46	Pk
V	7386.00	26.56	17.22	43.78	54	-10.22	AV
V	11650.00	24.36	17.81	42.17	74	-31.83	Pk
V	17850.00	18.28	25.39	43.67	74	-30.33	Pk
Н	4924.00	45.77	19.47	65.24	74	-8.76	Pk
Н	4924.00	26.34	19.47	45.81	54	-8.19	AV
Н	7386.00	46.62	17.22	63.84	74	-10.16	Pk
Н	7386.00	26.27	17.22	43.49	54	-10.51	AV
Н	11650.00	24.56	17.81	42.37	74	-31.63	Pk
Н	17850.00	18.42	25.39	43.81	74	-30.19	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level



802.11 n(20)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		op	eration fre	quency:2412			
V	4824.00	44.23	19.36	63.59	74	-10.41	Pk
V	4824.00	25.39	19.36	44.75	54	-9.25	AV
V	7236.00	45.78	17.17	62.95	74	-11.05	Pk
V	7236.00	25.49	17.17	42.66	54	-11.34	AV
V	11650.00	24.06	17.81	41.87	74	-32.13	Pk
V	17850.00	19.36	25.39	44.75	74	-29.25	Pk
Н	4824.00	45.24	19.36	64.60	74	-9.40	Pk
Н	4824.00	26.14	19.36	45.50	54	-8.50	AV
Н	7236.00	46.38	17.17	63.55	74	-10.45	Pk
Н	7236.00	26.02	17.17	43.19	54	-10.81	AV
Н	11650.00	24.53	17.81	42.34	74	-31.66	Pk
Н	17850.00	18.48	25.39	43.87	74	-30.13	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level

Other harmonics emissions are lower than 20dB below the allowable limit.

802.11n(20)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		op	eration fre	quency:2437			
V	4874.00	44.36	19.42	63.78	74	-10.22	Pk
V	4874.00	24.85	19.42	44.27	54	-9.73	AV
V	7311.00	47.25	17.19	64.44	74	-9.56	Pk
V	7311.00	26.64	17.19	43.83	54	-10.17	AV
V	11650.00	24.39	17.81	42.20	74	-31.80	Pk
V	17850.00	19.21	25.39	44.60	74	-29.40	Pk
Н	4874.00	44.86	19.42	64.28	74	-9.72	Pk
Н	4874.00	26.25	19.42	45.67	54	-8.33	AV
Н	7311.00	47.34	17.19	64.53	74	-9.47	Pk
Н	7311.00	27.52	17.19	44.71	54	-9.29	AV
Н	11650.00	24.65	17.81	42.46	74	-31.54	Pk
Н	17850.00	18.76	25.39	44.15	74	-29.85	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level



802.11 n(20)

Report No.: BCTC-160404066E

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		ор	eration fre	equency:2462			
V	4924.00	45.63	19.47	65.10	74	-8.90	Pk
V	4924.00	25.42	19.47	44.89	54	-9.11	AV
V	7386.00	47.15	17.22	64.37	74	-9.63	Pk
V	7376.00	26.57	17.22	43.79	54	-10.21	AV
V	11650.00	24.44	17.81	42.25	74	-31.75	Pk
V	17850.00	18.56	25.39	43.95	74	-30.05	Pk
Н	4924.00	45.49	19.47	64.96	74	-9.04	Pk
Н	4924.00	26.17	19.47	45.64	54	-8.36	AV
Н	7386.00	46.35	17.22	63.57	74	-10.43	Pk
Н	7376.00	26.25	17.22	43.47	54	-10.53	AV
Н	11650.00	24.38	17.81	42.19	74	-31.81	Pk
Н	17850.00	18.47	25.39	43.86	74	-30.14	Pk

Remark:

Absolute Level= ReadingLevel+ Factor

Margin= Limit- Absolute Level

Report No.: BCTC-160404066E



Band Radiated

	Frequency (MHz)	Antenna polarization (H/V)	Frequenc y (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission (dBuV/m)	(dBu	dge Limit IV/m)	Result
						PK	PK	AV	Pass
	<2400	Н	2390.00	35.15	13.83	48.98	74.00	54.00	Pass
	<2400	V	2390.00	34.73	13.83	48.56	74.00	54.00	Pass
	<2400	Н	2400.00	34.61	13.85	48.46	74.00	54.00	Pass
802.11b	<2400	V	2400.00	34.42	13.85	48.27	74.00	54.00	Pass
002.110	>2483.5	Н	2483.50	34.56	14.02	48.58	74.00	54.00	Pass
	>2483.5	V	2483.50	35.27	14.02	49.29	74.00	54.00	Pass
	>2483.5	Н	2485.30	34.52	14.04	48.56	74.00	54.00	Pass
	>2483.5	V	2485.30	35.48	14.04	49.52	74.00	54.00	Pass
	<2400	Н	2390.00	34.69	13.83	48.52	74.00	54.00	Pass
	<2400	V	2390.00	34.47	13.83	48.30	74.00	54.00	Pass
	<2400	Н	2400.00	34.51	13.85	48.36	74.00	54.00	Pass
000 44 ~	<2400	V	2400.00	35.38	13.85	49.23	74.00	54.00	Pass
802.11g	>2483.5	Н	2483.50	34.46	14.02	48.48	74.00	54.00	Pass
	>2483.5	V	2483.50	34.57	14.02	48.59	74.00	54.00	Pass
	>2483.5	Н	2484.65	34.36	14.04	48.40	74.00	54.00	Pass
	>2483.5	V	2484.65	34.25	14.04	48.29	74.00	54.00	Pass
	<2400	Н	2390.00	34.48	13.83	48.31	74.00	54.00	Pass
	<2400	V	2390.00	34.32	13.83	48.15	74.00	54.00	Pass
	<2400	Н	2400.00	35.23	13.85	49.08	74.00	54.00	Pass
802.11n	<2400	V	2400.00	34.31	13.85	48.16	74.00	54.00	Pass
(20)	>2483.5	Н	2483.50	34.43	14.02	48.45	74.00	54.00	Pass
	>2483.5	V	2483.50	33.89	14.02	47.91	74.00	54.00	Pass
	>2483.5	Н	2486.48	34.24	14.04	48.28	74.00	54.00	Pass
	>2483.5	V	2486.48	34.46	14.04	48.50	74.00	54.00	Pass
	Remark:	I					I		
		enna Factor + 0 vel = Meter Rea		•					

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

Report No.: BCTC-160404066E



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS			

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

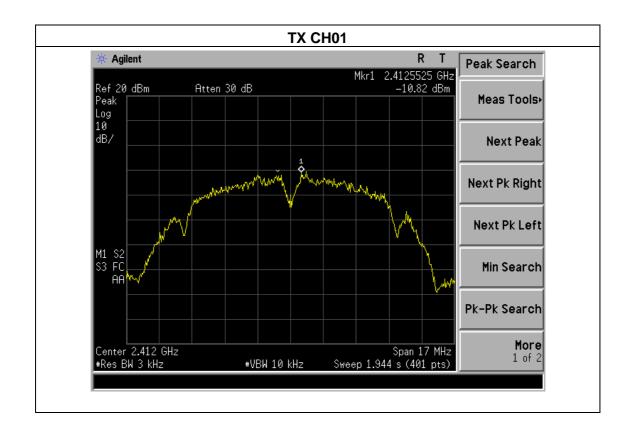
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

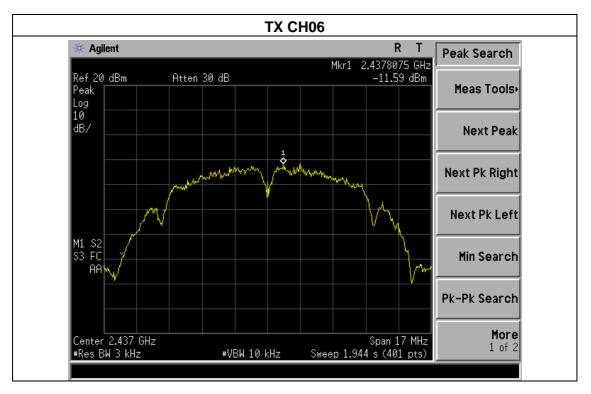
Temperature :	25 ℃	Relative Humidity:	54%
Pressure :	1015 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX b Mode /CH01, CH06, CH1	1	

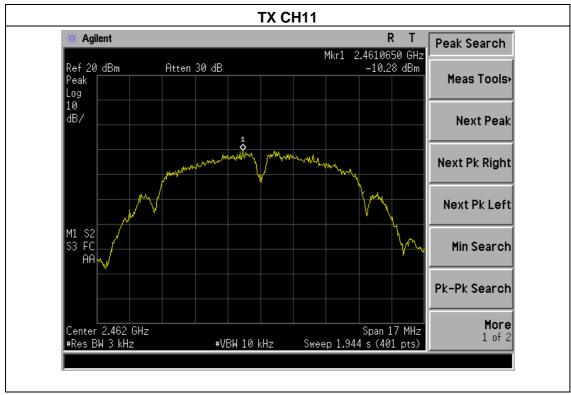
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.82	8	PASS
2437 MHz	-11.59	8	PASS
2462 MHz	-10.28	8	PASS













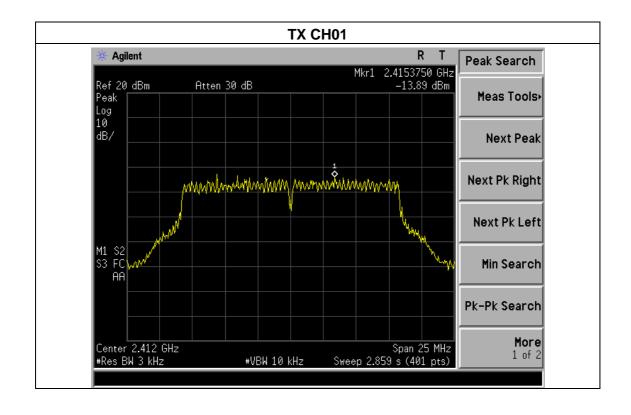
Temperature:	25 ℃	Relative Humidity:	54%

Pressure: 1015 hPa Test Voltage : DC5V from laptop

Shenzhen BCTC Technology Co., Ltd.

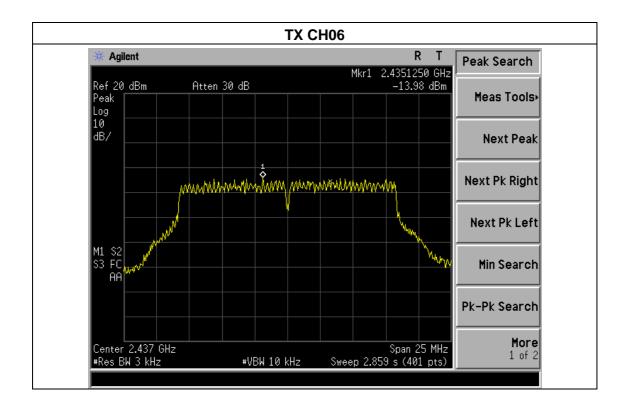
Test Mode : TX g Mode /CH01, CH06, CH11

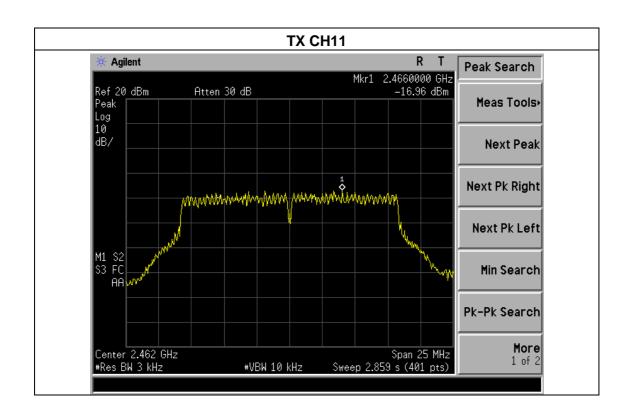
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-13.89	8	PASS
2437 MHz	-13.98	8	PASS
2462 MHz	-16.96	8	PASS







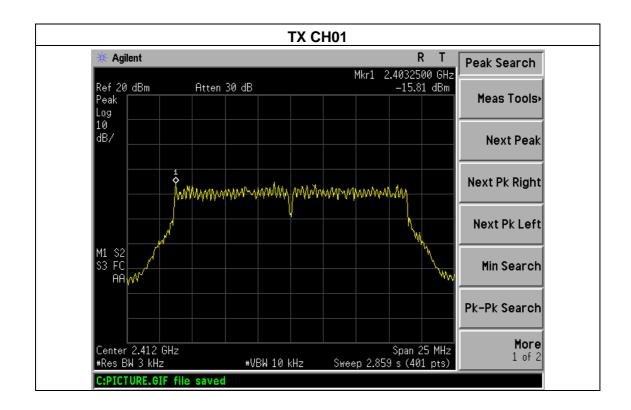




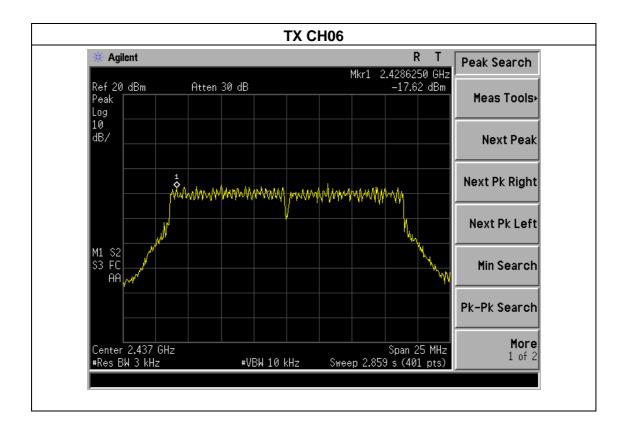


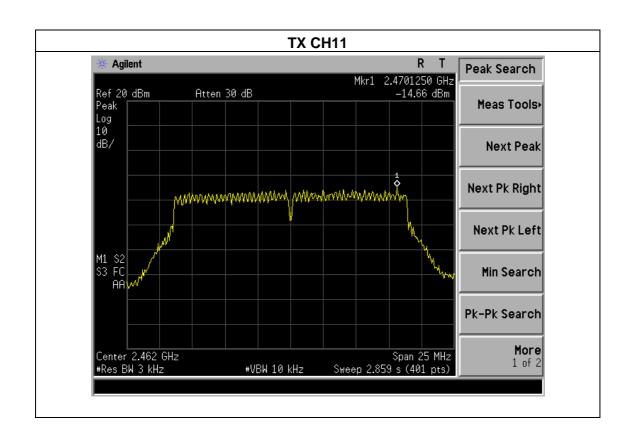
Temperature :	25 ℃	Relative Humidity:	54%
Pressure :	1015 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX n Mode(20M) /CH01, CH06	, CH11	

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.81	8	PASS
2437 MHz	-17.62	8	PASS
2462 MHz	-14.66	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

Report No.: BCTC-160404066E

5.1.1 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

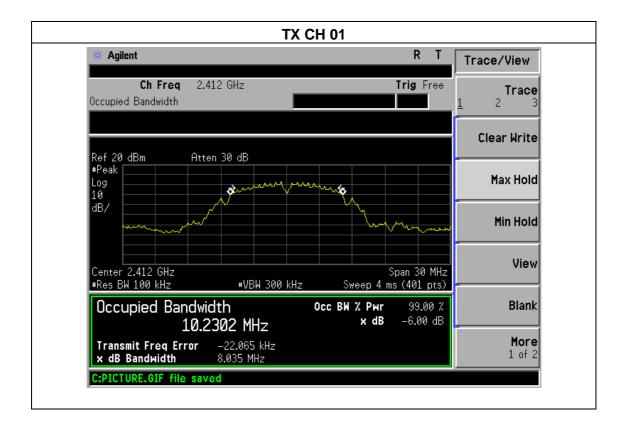
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



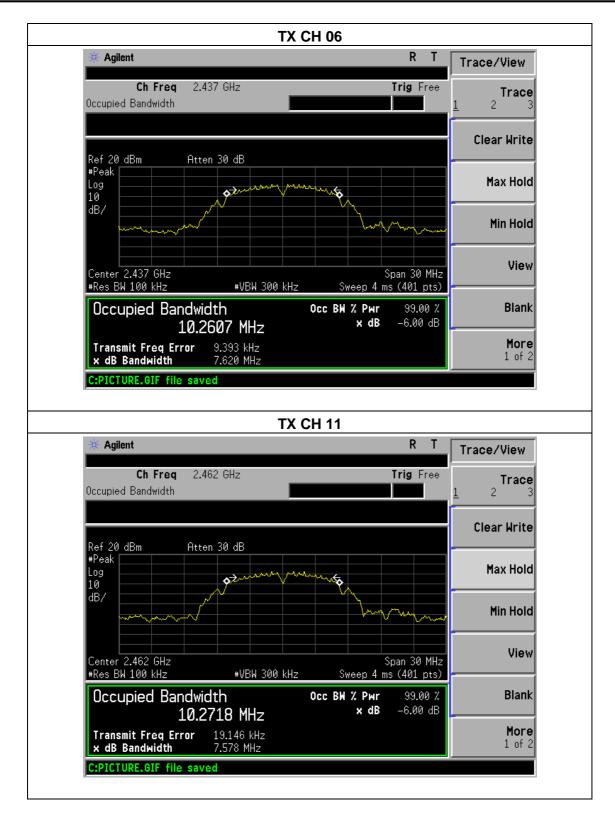
5.1.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX b Mode /CH01, CH06, CH1	1	

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	8.035	500	Pass
Middle	2437	7.620	500	Pass
High	2462	7.578	500	Pass



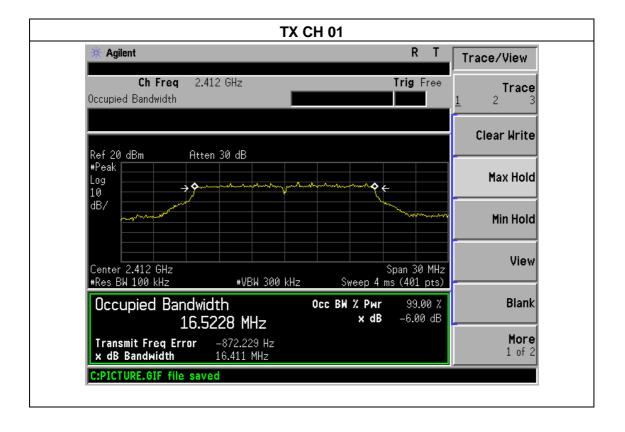




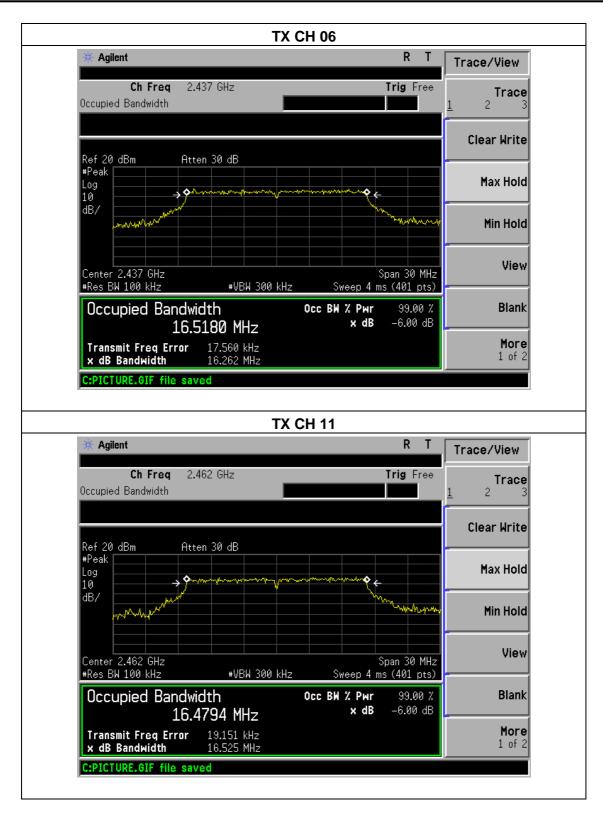


Temperature :	25 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.411	500	Pass
Middle	2437	16.262	500	Pass
High	2462	16.525	500	Pass





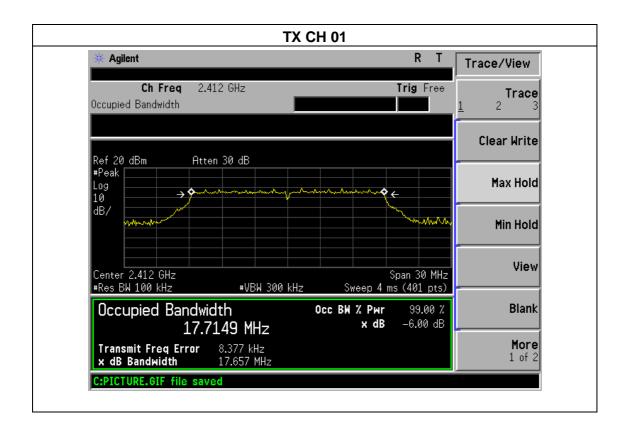




Temperature:	25℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX n Mode(20M) /CH01 CH06	CH11	

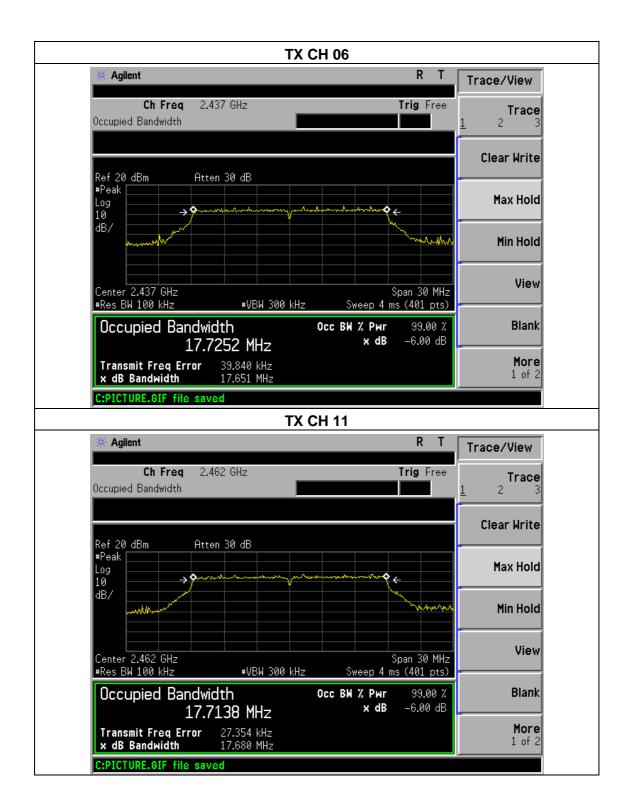
Shenzhen BCTC Technology Co., Ltd.

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.657	500	Pass
Middle	2437	17.651	500	Pass
High	2462	17.680	500	Pass











6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section Test Item Limit Frequency Range (MHz) Result					
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION 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.



6.1.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC5V from laptop
Test Mode :	TX b/g/n(20M)		

	TX 802.11b Mode					
Test Channe	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	LIMIT		
	(MHz)	(dBm)	(dBm)	dBm		
CH01	2412	17.68	15.85	30		
CH06	2437	17.57	15.72	30		
CH11	2462	17.48	15.65	30		
		TX 802.11g	Mode			
CH01	2412	15.85	14.52	30		
CH06	2437	15.63	14.43	30		
CH11	2462	15.44	14.22	30		
TX 802.11n(20) Mode						
CH01	2412	13.88	12.64	30		
CH06	2437	13.63	12.41	30		
CH11	2462	13.44	12.26	30		



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

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)).

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.

7.1 DEVIATION FROM STANDARD

No deviation.



7.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.3 EUT OPERATION 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.



7.4 TEST RESULTS

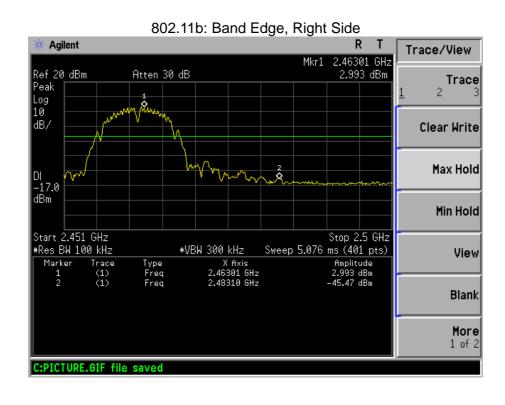
EUT:	DJ-500	Model Name :	DJ-500
Temperature:	25 ℃	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	DC5V from laptop

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
802.11b mode			
Left-band	41.51	20	Pass
Right-band	48.46	20	Pass
802.11g mode			
Left-band	33.00	20	Pass
Right-band	32.78	20	Pass
802.11n-HT20 mode			
Left-band	31.97	20	Pass
Right-band	35.92	20	Pass



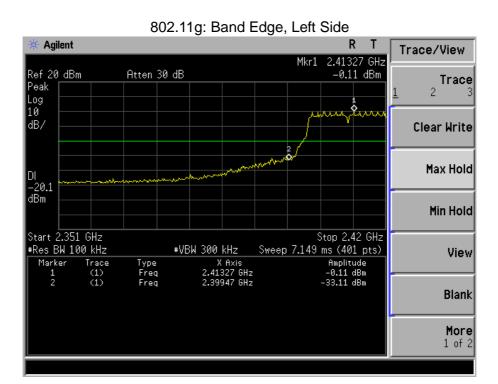


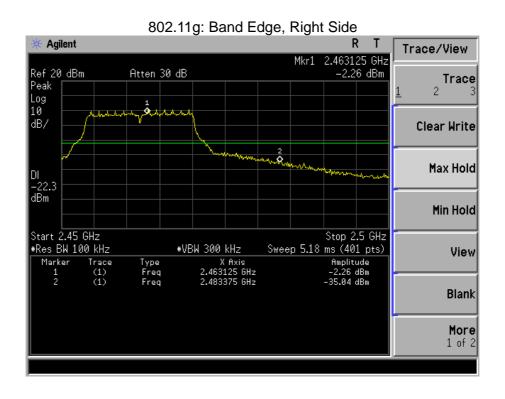
802.11b: Band Edge, Left Side Agilent Trace/View 2.41258 GHz 2.182 dBm Ref 20 dBm Peak Atten 30 dB Trace Log 10 ₫B/ Clear Write Max Hold DI -18.0 dBm Min Hold Center 2.365 GHz #Res BW 100 kHz Span 110 MHz Sweep 11.39 ms (401 pts) #VBW 300 kHz View Amplitude 2.182 dBm -39.33 dBm Trace (1) (1) Type Freq Freq X Axis 2.41258 GHz 2.39855 GHz Marker Blank More 1 of 2

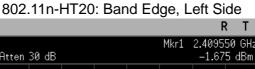




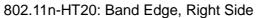


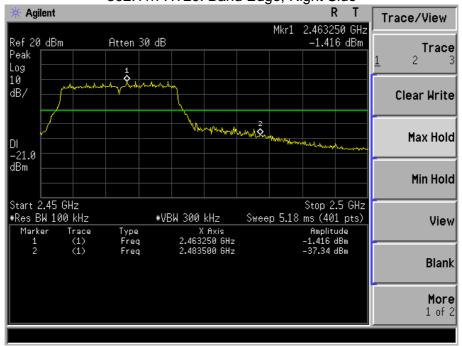














8. ANTENNA REQUIREMENT

8.1 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.

Report No.: BCTC-160404066E

8.2 EUT ANTENNA

The EUT antenna is Integrated(PCB) antenna. It comply with the standard requirement.