



# TEST REPORT



Applicant	Binatone Electronics International Ltd
Address	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

Manufacturer or Supplier	Sky Light Electronic (ShenZhen) Limited
Address	No. 1,5 and 6 Building, JinBi Industrial Area, HuangTian, BaoAn, Shenzhen, China
Product	Wi-Fi Action Camera
Brand Name	Motorola
Model	CA001
Additional Model & Model Difference	N/A
Date of tests	Jun. 03, 2016 ~ Jun. 12, 2016

The tests have been carried out according to the requirements of the following standard:

**FCC Part 15, Subpart C, Section 15.247**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Chris Chen Manager / EMC Department
	  Date: Jun. 12, 2016

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**BUREAU**  
**VERITAS**

Test Report No.: RF160523N069

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF160523N069	Original release	Jun. 12, 2016



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

## 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.70dB
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GMHz	3.62dB
	1GHz ~ 18GHz	4.03dB
	18GHz ~ 40GHz	4.84dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Wi-Fi Action Camera
<b>MODEL NO.</b>	CA001
<b>FCC ID</b>	VLJ-CA001
<b>NOMINAL VOLTAGE</b>	DC 3.8V From Battery or DC 5V From USB Host Unit
<b>MODULATION TYPE</b>	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM BT-LE(GFSK) for DTS
<b>MODULATION TECHNOLOGY</b>	DSSS, OFDM, DTS
<b>OPERATING FREQUENCY</b>	2412-2462MHz for 11b/g/n(HT20) 2402-2480MHz for BT-LE(GFSK)
<b>PEAK POWER</b>	WLAN: 24.06dBm (Maximum) BT-LE: 4.61dBm (Maximum)
<b>ANTENNA TYPE</b>	PIFA Antenna, 1.2dBi Gain For BT-LE PIFA Antenna, 1.4dBi Gain For WIFI
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	USB Line: Shielded, Detachable 0.6m.

**NOTE:**

1. The EUT incorporates a SIMO function. Physically, the EUT provides one transmitter and one receiver.

MODULATION MODE	FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	1TX/1RX
BT-LE	1TX/1RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Please refer to the EUT photo document (Reference No.: 160523N069) for detailed product photo.



### 3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

40 channels are provided for BT-LE(GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	-	√	<b>Powered by Battery with (WIFI + BT) function</b>
B	-	-	√	-	Powered by USB with (WIFI + BT) function

Where **RE<1G**: Radiated Emission below 1GHz      **RE≥1G**: Radiated Emission above 1GHz  
**PLC**: Power Line Conducted Emission      **APCM**: Antenna Port Conducted Measurement

#### POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
-	BT Link+ WIFI (2.4G) Link

#### RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11b	1 to 11	1	OFDM	DBPSK	6.0	X
A	BT-LE	0 to 39	39	DTS	GFSK	1.0	X





**RADIATED EMISSION TEST (ABOVE 1GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0	X
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
A	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
A	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0	X

**BANDEDGE MEASUREMENT:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 11	CCK	DBPSK	1.0
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5
A	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0



**ANTENNA PORT CONDUCTED MEASUREMENT:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5
A	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 61%RH	DC 3.8V From Battery	Kery He
RE≥1G	25deg. C, 61%RH	DC 3.8V From Battery	Kery He
PLC	20deg. C, 56%RH	DC 5V From USB	Breeze Jiang
APCM	20deg. C, 55%RH	DC 3.8V From Battery	Breeze Jiang

**3.3 DUTY CYCLE OF TEST SIGNAL**

Duty cycle of test signal is 100 %



### **3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

- FCC Part 15, Subpart C, Section 15.247**
- KDB 558074 D01 DTS Meas Guidance v03r05**
- ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**NOTE:** It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B(DoC). The test report has been issued separately.

### **3.5 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.

<b>NO.</b>	<b>PRODUCT</b>	<b>BRAND</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>FCC ID</b>
1	Notebook	DELL	Inspiron 14-3442	4Q3WB12	N/A

<b>NO.</b>	<b>SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS</b>
1	AC Line: Unshielded, Detachable 0.8m; DC Line: Unshielded, Undetachable 1.8m



## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101588	Jan. 22,16	Jan. 21,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed in shielded room 553.
  2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



#### 4.1.3 TEST PROCEDURES

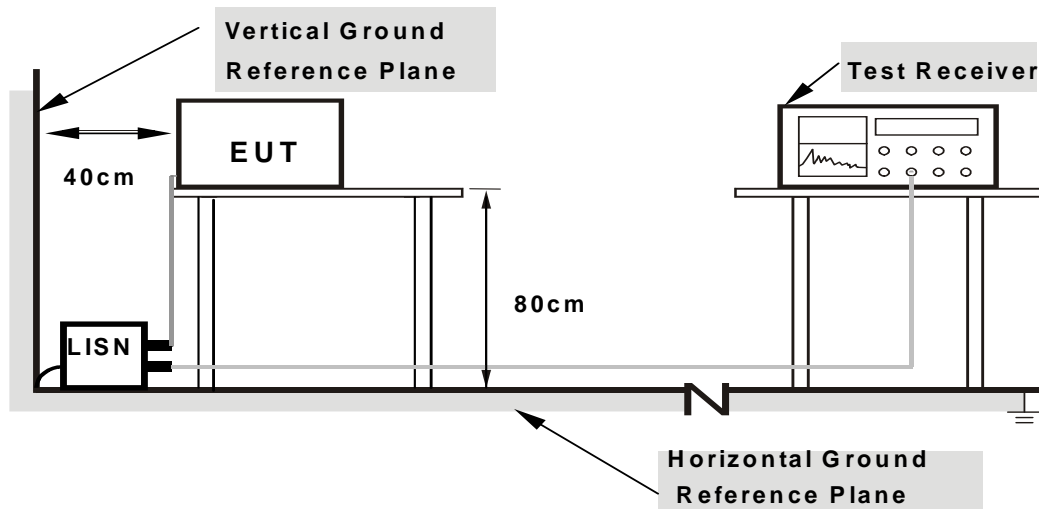
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.1.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



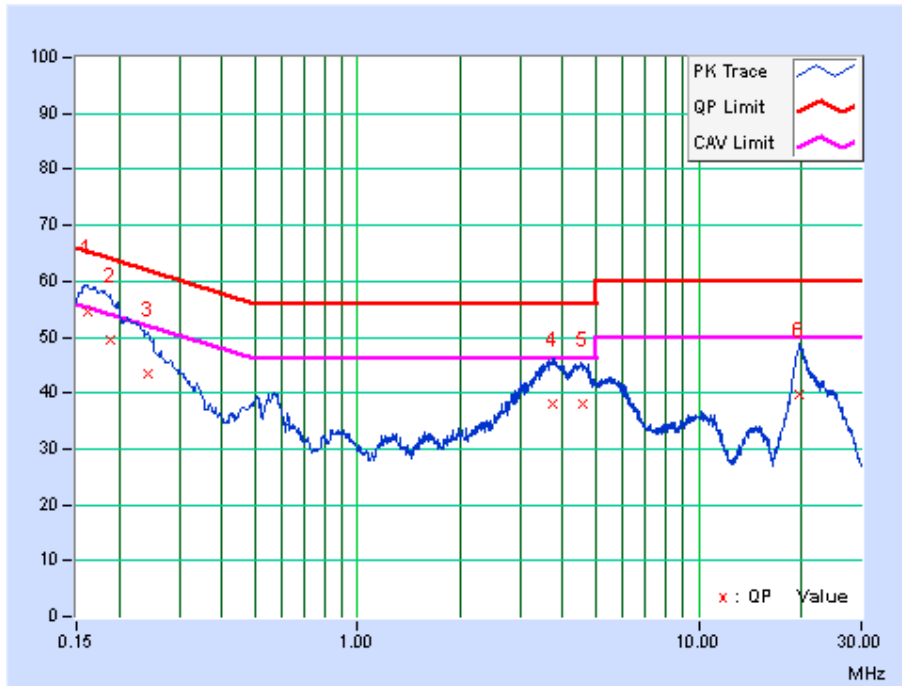
### 4.1.7 TEST RESULTS

**CONDUCTED WORST-CASE DATA: BT+WIFI**

<b>PHASE</b>	Line	<b>6dB BANDWIDTH</b>	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16125	10.02	44.50	29.47	54.52	39.49	65.40	55.40	-10.88	-15.91
2	0.18756	10.02	39.42	24.43	49.44	34.45	64.14	54.14	-14.70	-19.69
3	0.24167	10.03	33.40	19.42	43.43	29.45	62.04	52.04	-18.61	-22.59
4	3.71850	10.15	27.99	20.21	38.14	30.36	56.00	46.00	-17.86	-15.64
5	4.55100	10.14	28.05	21.02	38.19	31.16	56.00	46.00	-17.81	-14.84
6	19.85100	10.28	29.29	17.65	39.57	27.93	60.00	50.00	-20.43	-22.07

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

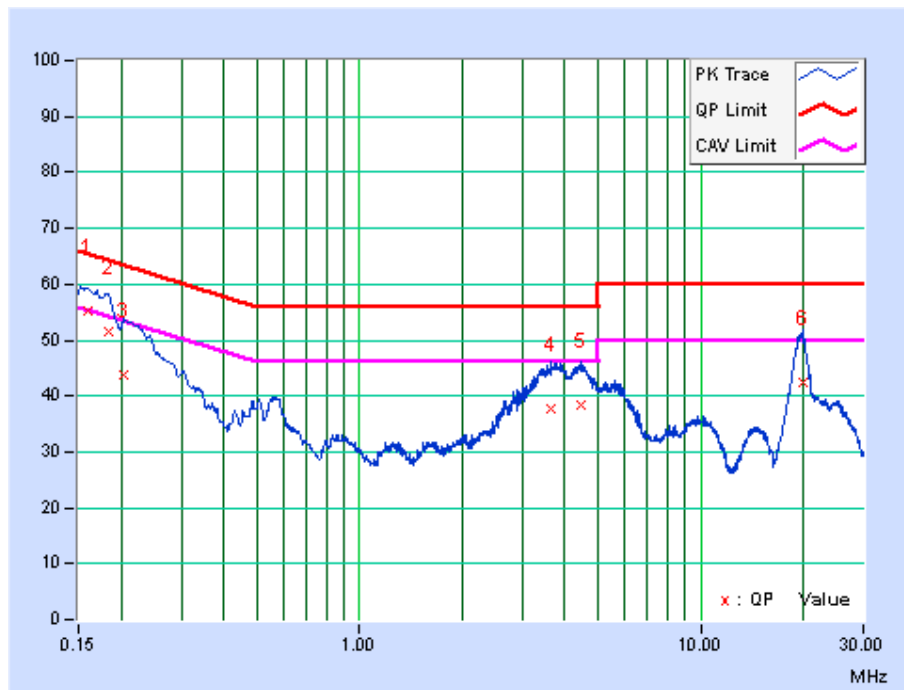




<b>PHASE</b>	Neutral	<b>6dB BANDWIDTH</b>	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15924	9.82	45.35	29.86	55.17	39.68	65.50	55.50	-10.33	-15.82
2	0.18267	9.82	41.80	26.41	51.62	36.23	64.36	54.36	-12.74	-18.13
3	0.20356	9.82	34.05	20.93	43.87	30.75	63.46	53.46	-19.59	-22.71
4	3.63075	9.90	27.67	19.67	37.57	29.57	56.00	46.00	-18.43	-16.43
5	4.46550	9.92	28.49	20.97	38.41	30.89	56.00	46.00	-17.59	-15.11
6	19.87575	10.18	32.10	19.17	42.28	29.35	60.00	50.00	-17.72	-20.65

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.







## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/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:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



#### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 16, 15	Jul. 15, 16
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30, 15	May 29, 17
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 14	Aug. 07, 16
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,16	Mar. 03, 17
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 25,16	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 20,15	Nov. 19,16
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

**NOTE:**

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 494399.



#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTE:

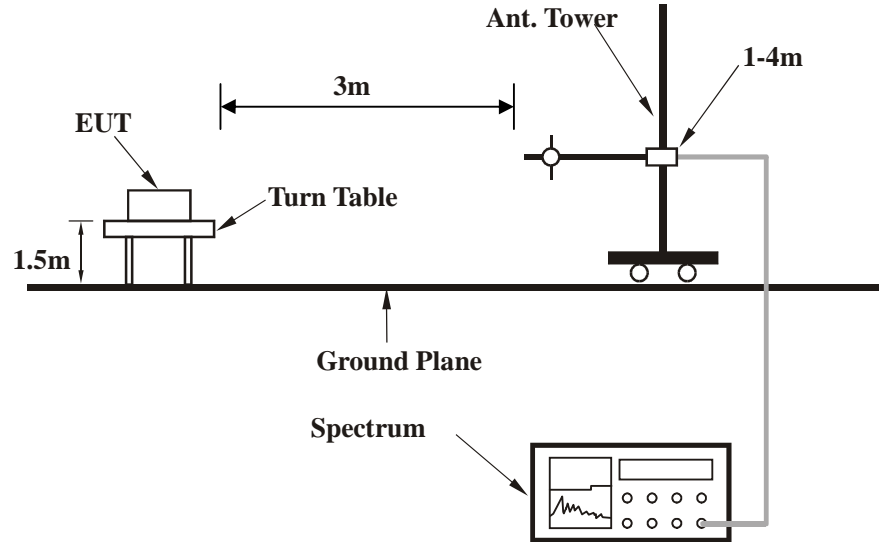
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Bluetooth duty factor correction is not correct as it is based on 79 channels, worst case would be with AFH enabled and device using the minimum of 20 channels. Channel hop rate = 800 hops/second (AFH Mode), Adjusted channel hop rate for DH5 mode = 133.33 hops/second, Time per channel hop =  $1 / 133.33$  hops/second = 7.5 ms, Time to cycle through all channels =  $7.5 \times 20$  channels = 150 ms, Number of times transmitter hits on one channel = 100 ms / 150 ms = 1 time(s), Worst case dwell time = 7.5 ms, Duty cycle connection factor =  $20\log_{10}(7.5\text{ms} / 100\text{ms}) = -22.5$  dB. Average value = peak reading + 20log(duty cycle).
4. For WiFi, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



### 4.2.7 TEST RESULTS

#### BELOW 1GHz WORST-CASE DATA:

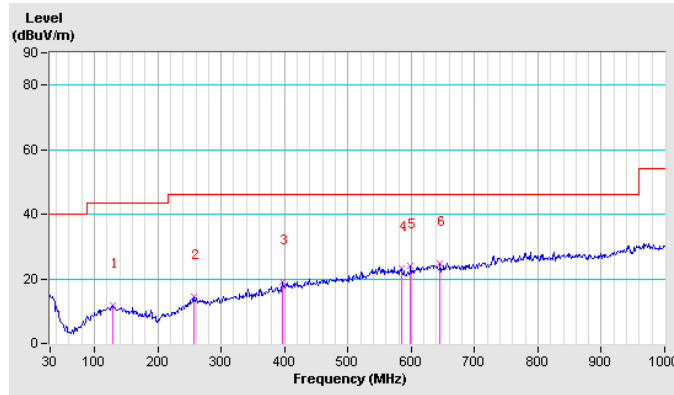
##### 802.11b

<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	128.41	11.60	43.50	-31.90	100	0	29.30	-17.70
2	256.33	14.40	46.00	-31.60	100	0	29.40	-15.00
3	396.91	19.10	46.00	-26.90	100	0	29.60	-10.50
4	583.88	23.40	46.00	-22.60	100	0	28.80	-5.40
5	599.35	24.10	46.00	-21.90	100	0	29.80	-5.70
6	645.74	24.70	46.00	-21.30	100	0	29.40	-4.70

#### REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



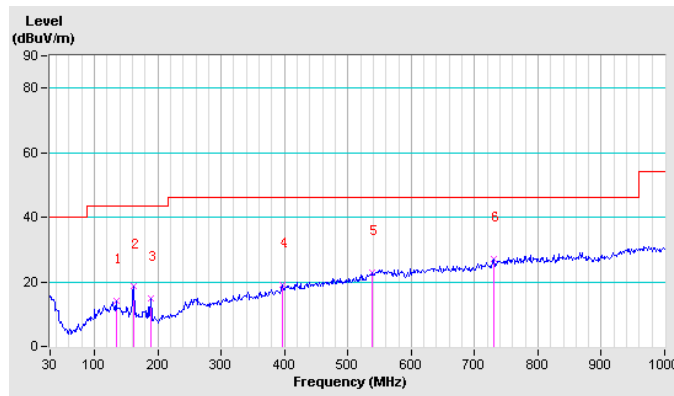


<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (cm)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	134.03	14.20	43.50	-29.30	100	0	31.80	-17.60
2	162.14	18.60	43.50	-24.90	100	0	37.30	-18.70
3	188.86	15.00	43.50	-28.50	100	0	35.00	-20.00
4	396.91	19.10	46.00	-26.90	100	0	29.60	-10.50
5	538.90	23.00	46.00	-23.00	100	0	28.70	-5.70
6	730.09	27.10	46.00	-18.90	100	0	29.40	-2.30

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHZ DATA

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	1.53 H	209	56.31	0.39
2	2390.00	50.0 AV	54.0	-4.0	1.53 H	209	49.61	0.39
3	*2412.00	93.7 PK			1.53 H	209	93.26	0.44
4	*2412.00	90.2 AV			1.53 H	209	89.76	0.44
5	4824.00	56.4 PK	74.0	-17.6	1.85 H	233	49.81	6.59
6	4824.00	32.2 AV	54.0	-21.8	1.85 H	233	25.61	6.59
7	#7236.00	49.3 PK	73.7	-24.4	1.83 H	56	37.02	12.28
8	#7236.00	44.3 AV	70.2	-25.9	1.83 H	56	32.02	12.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.6 PK	74.0	-12.4	1.56 V	237	61.24	0.39
2	2390.00	52.5 AV	54.0	-1.5	1.56 V	237	52.13	0.39
3	*2412.00	105.2 PK			1.56 V	237	104.76	0.44
4	*2412.00	102.6 AV			1.56 V	237	102.16	0.44
5	4824.00	53.4 PK	74.0	-20.6	1.63 V	280	46.81	6.59
6	4824.00	34.3 AV	54.0	-19.7	1.63 V	280	27.71	6.59
7	#7236.00	50.3 PK	85.2	-34.9	1.25 V	208	38.02	12.28
8	#7236.00	36.1 AV	82.6	-46.5	1.25 V	208	23.82	12.28

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



<b>CHANNEL</b>	TX Channel 6	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.1 PK			1.62 H	203	105.63	0.51
2	*2437.00	102.6 AV			1.62 H	203	102.13	0.51
3	4874.00	43.6 PK	74.0	-30.4	1.52 H	360	36.90	6.73
4	4874.00	33.7 AV	54.0	-20.3	1.52 H	360	26.93	6.73
5	7311.00	50.3 PK	74.0	-23.7	1.20 H	208	37.92	12.42
6	7311.00	38.5 AV	54.0	-15.5	1.20 H	208	26.12	12.42
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.1 PK			1.58 V	231	108.58	0.51
2	*2437.00	105.1 AV			1.58 V	231	104.57	0.51
3	4874.00	41.3 PK	74.0	-32.7	1.53 V	206	34.57	6.73
4	4874.00	30.5 AV	54.0	-23.5	1.53 V	206	23.73	6.73
5	7311.00	50.1 PK	74.0	-23.9	1.28 V	234	37.65	12.42
6	7311.00	36.6 AV	54.0	-17.4	1.28 V	234	24.21	12.42

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.





<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.9 PK			1.52 H	128	110.30	0.56
2	*2462.00	106.7 AV			1.52 H	128	106.11	0.56
3	2483.50	69.3 PK	74.0	-4.7	1.52 H	125	68.69	0.61
4	2483.50	52.9 AV	54.0	-1.1	1.52 H	125	52.28	0.61
5	4924.00	44.0 PK	74.0	-30.0	1.72 H	263	37.11	6.88
6	4924.00	32.3 AV	54.0	-21.7	1.72 H	263	25.42	6.88
7	7386.00	49.4 PK	74.0	-24.6	1.95 H	213	36.85	12.57
8	7386.00	38.7 AV	54.0	-15.3	1.95 H	213	26.16	12.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.9 PK			1.58 V	201	104.29	0.56
2	*2462.00	100.4 AV			1.58 V	201	99.83	0.56
3	2483.50	59.0 PK	74.0	-15.0	1.58 V	201	58.40	0.61
4	2483.50	44.9 AV	54.0	-9.1	1.58 V	201	44.26	0.61
5	4924.00	45.3 PK	74.0	-28.7	1.85 V	236	38.45	6.88
6	4924.00	32.6 AV	54.0	-21.4	1.85 V	236	25.68	6.88
7	7386.00	51.0 PK	74.0	-23.0	1.35 V	271	38.42	12.57
8	7386.00	38.7 AV	54.0	-15.3	1.35 V	271	26.12	12.57

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



802.11g

<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.2 PK	74.0	-13.8	1.26 H	56	59.78	0.39
2	2390.00	53.3 AV	54.0	-0.7	1.26 H	56	52.91	0.39
3	*2412.00	110.6 PK			1.25 H	56	110.19	0.44
4	*2412.00	105.9 AV			1.25 H	56	105.43	0.44
5	4824.00	42.3 PK	74.0	-31.7	1.96 H	238	35.68	6.59
6	4824.00	32.5 AV	54.0	-21.5	1.96 H	238	25.92	6.59
7	#7236.00	53.2 PK	90.6	-37.4	1.85 H	197	40.88	12.28
8	#7236.00	40.3 AV	85.9	-45.6	1.85 H	197	28.03	12.28

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.7 PK	74.0	-15.3	1.58 V	203	58.28	0.39
2	2390.00	52.5 AV	54.0	-1.5	1.58 V	203	52.11	0.39
3	*2412.00	107.9 PK			1.58 V	203	107.41	0.44
4	*2412.00	103.0 AV			1.58 V	203	102.51	0.44
5	4824.00	45.9 PK	74.0	-28.1	1.68 V	84	39.27	6.59
6	4824.00	32.1 AV	54.0	-21.9	1.68 V	84	25.52	6.59
7	#7236.00	51.8 PK	87.9	-36.1	1.61 V	209	39.56	12.28
8	#7236.00	36.1 AV	83.0	-46.9	1.61 V	209	23.85	12.28

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



<b>CHANNEL</b>	TX Channel 6	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.6 PK			1.53 H	302	106.12	0.51
2	*2437.00	103.2 AV			1.53 H	302	102.70	0.51
3	4874.00	45.3 PK	74.0	-28.7	1.96 H	271	38.59	6.73
4	4874.00	33.8 AV	54.0	-20.2	1.96 H	271	27.09	6.73
5	7311.00	52.1 PK	74.0	-21.9	1.50 H	203	39.66	12.42
6	7311.00	42.2 AV	54.0	-11.8	1.50 H	203	29.79	12.42

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.2 PK			1.86 V	245	106.69	0.51
2	*2437.00	102.3 AV			1.86 V	245	101.79	0.51
3	4874.00	45.9 PK	74.0	-28.1	1.69 V	23	39.12	6.73
4	4874.00	35.6 AV	54.0	-18.4	1.69 V	23	28.91	6.73
5	7311.00	52.1 PK	74.0	-21.9	1.85 V	162	39.68	12.42
6	7311.00	38.9 AV	54.0	-15.1	1.85 V	162	26.45	12.42

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.2 PK			1.18 H	273	108.64	0.56
2	*2462.00	94.2 AV			1.18 H	273	93.62	0.56
3	2483.50	68.5 PK	74.0	-5.5	1.18 H	273	67.88	0.61
4	2483.50	48.9 AV	54.0	-5.1	1.18 H	273	48.26	0.61
5	4924.00	43.9 PK	74.0	-30.1	1.49 H	237	37.05	6.88
6	4924.00	33.7 AV	54.0	-20.3	1.49 H	237	26.80	6.88
7	7386.00	52.5 PK	74.0	-21.5	1.52 H	201	39.97	12.57
8	7386.00	35.6 AV	54.0	-18.4	1.52 H	201	23.02	12.57

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.3 PK			1.27 V	302	105.70	0.56
2	*2462.00	91.9 AV			1.27 V	302	91.34	0.56
3	2483.50	64.4 PK	74.0	-9.6	1.27 V	302	63.77	0.61
4	2483.50	47.2 AV	54.0	-6.8	1.27 V	302	46.59	0.61
5	4924.00	45.9 PK	74.0	-28.1	1.85 V	177	39.00	6.88
6	4924.00	33.5 AV	54.0	-20.5	1.85 V	177	26.57	6.88
7	7386.00	47.9 PK	74.0	-26.1	1.12 V	236	35.29	12.57
8	7386.00	37.4 AV	54.0	-16.6	1.12 V	236	24.78	12.57

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



802.11n 20MHz

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.1 PK	74.0	-13.9	1.45 H	131	59.73	0.39
2	2390.00	52.7 AV	54.0	-1.3	1.45 H	131	52.33	0.39
3	*2412.00	107.5 PK			1.25 H	162	107.01	0.44
4	*2412.00	103.7 AV			1.25 H	162	103.30	0.44
5	4824.00	43.9 PK	74.0	-30.1	1.64 H	253	37.26	6.59
6	4824.00	33.9 AV	54.0	-20.1	1.64 H	253	27.32	6.59
7	#7236.00	55.0 PK	87.5	-32.5	1.98 H	241	42.76	12.28
8	#7236.00	42.9 AV	83.7	-40.8	1.98 H	241	30.64	12.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.7 PK	74.0	-14.3	1.83 V	210	59.29	0.39
2	2390.00	51.0 AV	54.0	-3.0	1.83 V	210	50.62	0.39
3	*2412.00	106.6 PK			1.83 V	210	106.19	0.44
4	*2412.00	102.5 AV			1.83 V	210	102.02	0.44
5	4824.00	45.2 PK	74.0	-28.8	1.56 V	203	38.57	6.59
6	4824.00	34.0 AV	54.0	-20.0	1.56 V	203	27.39	6.59
7	#7236.00	52.3 PK	86.6	-34.3	1.79 V	243	40.02	12.28
8	#7236.00	39.8 AV	82.5	-42.7	1.79 V	243	27.53	12.28

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



<b>CHANNEL</b>	TX Channel 6	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.6 PK			1.52 H	201	107.09	0.51
2	*2437.00	104.1 AV			1.52 H	201	103.59	0.51
3	4874.00	43.7 PK	74.0	-30.3	1.02 H	351	36.97	6.73
4	4874.00	31.4 AV	54.0	-22.6	1.02 H	351	24.64	6.73
5	7311.00	52.3 PK	74.0	-21.7	1.28 H	186	39.88	12.42
6	7311.00	38.1 AV	54.0	-15.9	1.28 H	186	25.71	12.42
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.9 PK			1.28 V	205	104.36	0.51
2	*2437.00	100.2 AV			1.28 V	205	99.66	0.51
3	4874.00	45.1 PK	74.0	-28.9	1.55 V	201	38.39	6.73
4	4874.00	34.7 AV	54.0	-19.3	1.55 V	201	27.95	6.73
5	7311.00	51.7 PK	74.0	-22.3	1.42 V	108	39.28	12.42
6	7311.00	40.3 AV	54.0	-13.7	1.42 V	108	27.84	12.42

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.9 PK			1.59 H	233	107.30	0.56
2	*2462.00	103.9 AV			1.59 H	233	103.38	0.56
3	2483.50	65.5 PK	74.0	-8.5	1.59 H	233	64.91	0.61
4	2483.50	50.4 AV	54.0	-3.6	1.59 H	233	49.76	0.61
5	4924.00	43.5 PK	74.0	-30.5	1.63 H	208	36.66	6.88
6	4924.00	34.0 AV	54.0	-20.0	1.63 H	208	27.09	6.88
7	7386.00	50.5 PK	74.0	-23.5	1.84 H	125	37.95	12.57
8	7386.00	40.7 AV	54.0	-13.3	1.84 H	125	28.12	12.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.1 PK			1.85 V	138	104.58	0.56
2	*2462.00	101.4 AV			1.85 V	138	100.82	0.56
3	2483.50	54.5 PK	74.0	-19.5	1.85 V	138	53.93	0.61
4	2483.50	45.9 AV	54.0	-8.1	1.85 V	138	45.28	0.61
5	4924.00	45.3 PK	74.0	-28.7	1.16 V	208	38.37	6.88
6	4924.00	31.7 AV	54.0	-22.3	1.16 V	208	24.85	6.88
7	7386.00	51.0 PK	74.0	-23.0	1.52 V	124	38.39	12.57
8	7386.00	37.5 AV	54.0	-16.5	1.52 V	124	24.92	12.57

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



**BELOW 1GHz WORST-CASE DATA:**

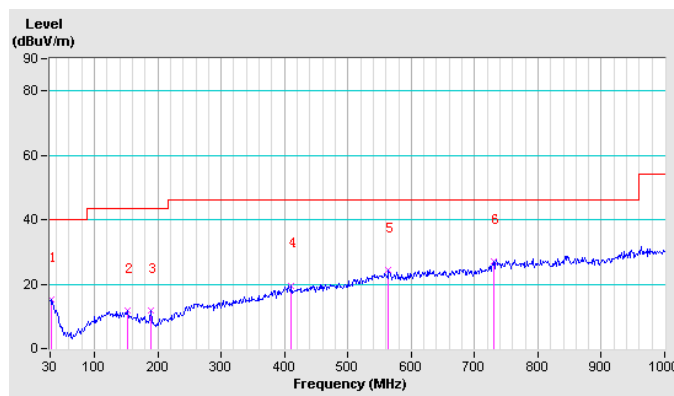
**BT-LE (GFSK)**

<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (cm)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	31.41	15.30	40.00	-24.70	100	0	28.20	-12.90
2	152.30	11.90	43.50	-31.60	100	0	30.00	-18.10
3	188.86	11.90	43.50	-31.60	100	0	31.90	-20.00
4	410.97	19.60	46.00	-26.40	100	0	29.30	-9.70
5	564.20	24.30	46.00	-21.70	100	0	29.60	-5.30
6	730.09	26.90	46.00	-19.10	100	0	29.20	-2.30

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





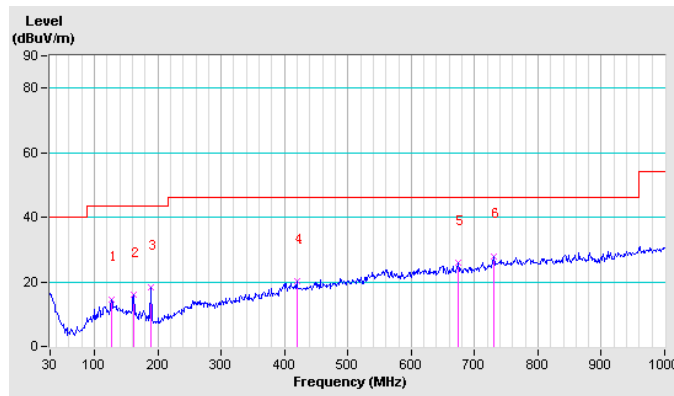


<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	127.00	14.70	43.50	-28.80	100	0	32.40	-17.70
2	162.14	16.00	43.50	-27.50	100	0	34.70	-18.70
3	188.86	18.40	43.50	-25.10	100	0	38.40	-20.00
4	419.41	20.00	46.00	-26.00	100	0	29.80	-9.80
5	673.86	25.80	46.00	-20.20	100	0	29.90	-4.10
6	730.09	28.00	46.00	-18.00	100	0	30.30	-2.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz TEST DATA:

BT-LE (GFSK)

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.2 PK	74.0	-10.8	1.00 H	335	59.60	3.60
2	2390.00	40.7 AV	54.0	-13.3	1.00 H	335	37.10	3.60
3	*2402.00	99.9 PK			1.00 H	335	96.30	3.60
4	*2402.00	77.4 AV			1.00 H	335	73.80	3.60
5	4804.00	61.7 PK	74.0	-12.3	1.96 H	114	53.20	8.50
6	4804.00	39.2 AV	54.0	-14.8	1.96 H	114	30.70	8.50
7	#7206.00	54.7 PK	79.9	-25.2	1.69 H	26	39.70	15.00
8	#7206.00	32.2 AV	57.4	-25.2	1.69 H	26	17.20	15.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.8 PK	74.0	-14.2	1.72 V	78	56.20	3.60
2	2390.00	37.3 AV	54.0	-16.7	1.72 V	78	33.70	3.60
3	*2402.00	100.2 PK			1.72 V	78	96.60	3.60
4	*2402.00	77.7 AV			1.72 V	78	74.10	3.60
5	4804.00	57.4 PK	74.0	-16.6	1.53 V	21	48.90	8.50
6	4804.00	34.9 AV	54.0	-19.1	1.53 V	21	26.40	8.50
7	#7206.00	55.9 PK	80.2	-24.3	1.13 V	150	40.90	15.00
8	#7206.00	33.4 AV	57.7	-24.3	1.13 V	150	18.40	15.00

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



<b>CHANNEL</b>	TX Channel 19	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	101.6 PK			1.01 H	192	97.80	3.80
2	*2440.00	79.1 AV			1.01 H	192	75.30	3.80
3	4880.00	61.1 PK	74.0	-12.9	1.35 H	209	52.50	8.60
4	4880.00	38.6 AV	54.0	-15.4	1.35 H	209	30.00	8.60
5	7320.00	55.2 PK	74.0	-18.8	1.60 H	110	39.80	15.40
6	7320.00	32.7 AV	54.0	-21.3	1.60 H	110	17.30	15.40

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	101.7 PK			1.66 V	76	97.90	3.80
2	*2440.00	79.2 AV			1.66 V	76	75.40	3.80
3	4880.00	57.7 PK	74.0	-16.3	1.21 V	245	49.10	8.60
4	4880.00	35.2 AV	54.0	-18.8	1.21 V	245	26.60	8.60
5	7320.00	57.1 PK	74.0	-16.9	1.87 V	142	41.70	15.40
6	7320.00	34.6 AV	54.0	-19.4	1.87 V	142	19.20	15.40

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	101.3 PK			1.86 H	189	97.40	3.90
2	*2480.00	78.8 AV			1.86 H	189	74.90	3.90
3	2483.50	62.2 PK	74.0	-11.8	1.86 H	189	58.20	4.00
4	2483.50	39.7 AV	54.0	-14.3	1.86 H	189	35.70	4.00
5	4960.00	59.1 PK	74.0	-14.9	1.50 H	225	50.40	8.70
6	4960.00	36.6 AV	54.0	-17.4	1.50 H	225	27.90	8.70
7	7440.00	53.6 PK	74.0	-20.4	1.77 H	32	37.80	15.80
8	7440.00	31.1 AV	54.0	-22.9	1.77 H	32	15.30	15.80

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	100.4 PK			1.90 V	74	96.50	3.90
2	*2480.00	77.9 AV			1.90 V	74	74.00	3.90
3	2483.50	62.6 PK	74.0	-11.4	1.90 V	74	58.60	4.00
4	2483.50	40.1 AV	54.0	-13.9	1.90 V	74	36.10	4.00
5	4960.00	58.8 PK	74.0	-15.2	1.49 V	351	50.10	8.70
6	4960.00	36.3 AV	54.0	-17.7	1.49 V	351	27.60	8.70
7	7440.00	54.8 PK	74.0	-19.2	2.01 V	45	39.00	15.80
8	7440.00	32.3 AV	54.0	-21.7	2.01 V	45	16.50	15.80

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 27,16	May 26,17
Power Sensor	Keysight	U2021XA	MY55060018	May 27,16	May 26,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 12, 15	Oct.11, 16
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.07,15	Sep. 06,16
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 28,15	Nov. 27,16
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Signal Generator	Agilent	N5183A	MY50140980	Nov. 09,15	Nov. 08,16
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 22, 16	Apr. 21, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

**NOTE:**

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

#### 4.3.3 TEST PROCEDURE

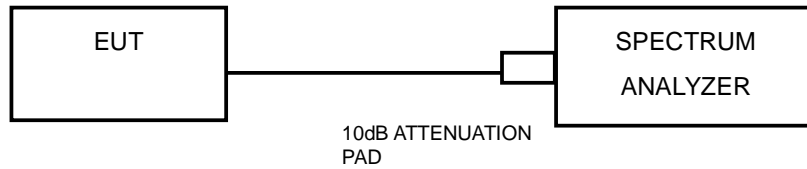
1. Set resolution bandwidth (RBW) = 100KHz
2. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.3.5 TEST SETUP



#### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



#### 4.3.7 TEST RESULTS

##### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	8.08	0.5	PASS
6	2437	8.06	0.5	PASS
11	2462	7.59	0.5	PASS

##### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.18	0.5	PASS
6	2437	15.35	0.5	PASS
11	2462	15.48	0.5	PASS

##### 802.11n 20MHz

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.72	0.5	PASS
6	2437	15.16	0.5	PASS
11	2462	16.11	0.5	PASS

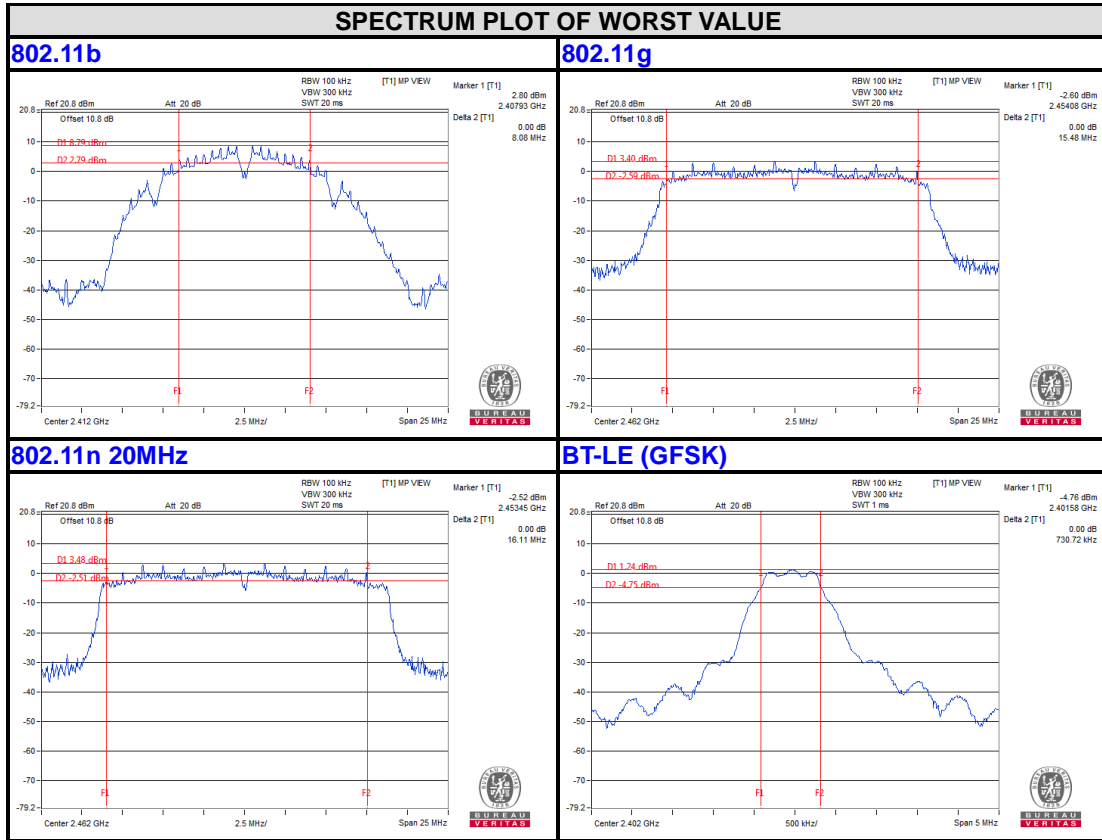
##### BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.73	0.5	PASS
19	2440	0.72	0.5	PASS
39	2480	0.72	0.5	PASS



BUREAU VERITAS

Test Report No.: RF160523N069



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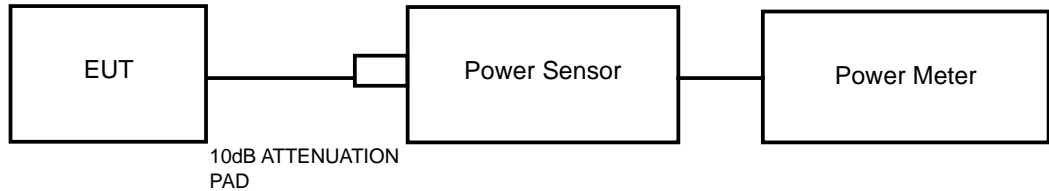


### 4.4 CONDUCTED OUTPUT POWER

#### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm).

#### 4.4.2 TEST SETUP



#### 4.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Feb. 18,16	Feb. 17,17
Power Sensor	Keysight	U2021XA	MY55060018	Feb. 18,16	Feb. 17,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 12, 15	Oct.11, 16
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.07,15	Sep. 06,16
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 28,15	Nov. 27,16
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 09,15	Nov. 08,16
Signal Generator	Agilent	N5183A	MY50140980	Nov. 09,15	Nov. 08,16
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Nov. 09,15	Nov. 08,16
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 01,15	Aug. 31,16

**NOTE:**

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



#### 4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

#### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



#### 4.4.7 TEST RESULTS

##### 4.4.7.1 MAXIMUM PEAK OUTPUT POWER

###### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	19.84	96.383	1	PASS
6	2437	19.47	88.512	1	PASS
11	2462	18.65	73.282	1	PASS

###### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	23.83	241.546	1	PASS
6	2437	23.05	201.837	1	PASS
11	2462	22.54	179.473	1	PASS

###### 802.11n 20MHz

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	<b>24.06</b>	<b>254.683</b>	1	PASS
6	2437	23.27	212.324	1	PASS
11	2462	22.36	172.187	1	PASS

###### BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	3.57	2.275	1	PASS
19	2440	4.32	2.704	1	PASS
39	2480	<b>4.61</b>	<b>2.891</b>	1	PASS



#### 4.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

##### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)	PEAK POWER LIMIT (W)	PASS / FAIL
1	2412	16.68	46.559	1	PASS
6	2437	17.06	50.816	1	PASS
11	2462	16.09	40.644	1	PASS

##### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)	PEAK POWER LIMIT (W)	PASS / FAIL
1	2412	16.84	48.306	1	PASS
6	2437	16.06	40.365	1	PASS
11	2462	15.57	36.058	1	PASS

##### 802.11n 20MHz

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)	PEAK POWER LIMIT (W)	PASS / FAIL
1	2412	<b>16.89</b>	<b>48.865</b>	1	PASS
6	2437	16.28	42.462	1	PASS
11	2462	15.21	33.189	1	PASS

##### BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
0	2402	0.42	1.102
19	2440	1.26	1.337
39	2480	<b>1.53</b>	<b>1.422</b>

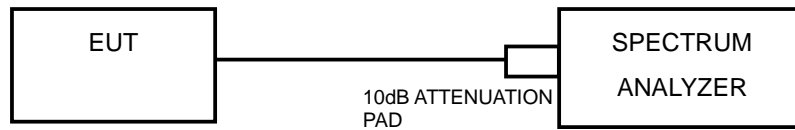


## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

### 4.5.2 TEST SETUP



### 4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.5.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: 3KHz
- d) Set VBW  $\geq 3 \times$  RBW.
- e) Detector = peak
- f) Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
- g) Sweep time = auto couple.
- h) Use the peak marker function to determine the maximum amplitude level.

### 4.5.5 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.

#### 4.5.7 TEST RESULTS

##### 802.11b

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-5.07	8.00	PASS
6	2437	-6.53	8.00	PASS
11	2462	-7.22	8.00	PASS

##### 802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-8.45	8.00	PASS
6	2437	-10.40	8.00	PASS
11	2462	-9.94	8.00	PASS

##### 802.11n 20MHz

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-9.31	8.00	PASS
6	2437	-8.92	8.00	PASS
11	2462	-10.48	8.00	PASS

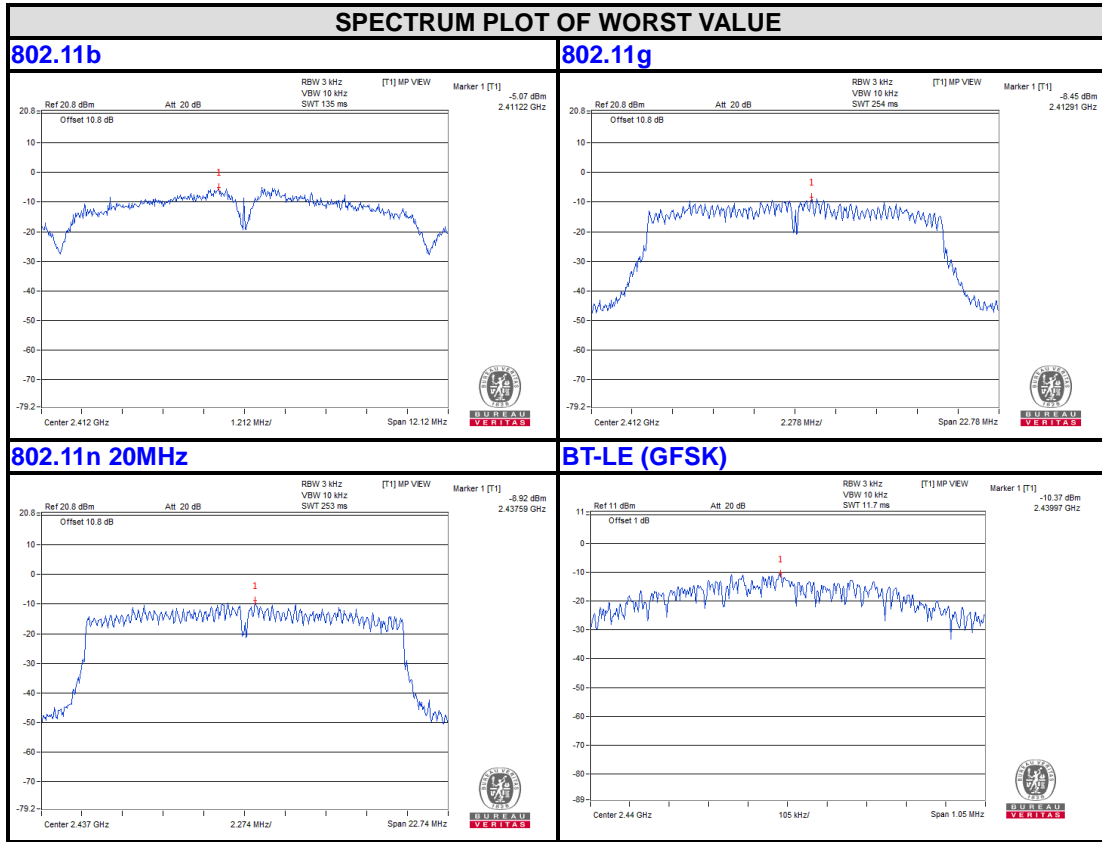
##### BT-LE (GFSK)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-12.92	8.00	PASS
19	2440	-10.37	8.00	PASS
39	2480	-10.78	8.00	PASS



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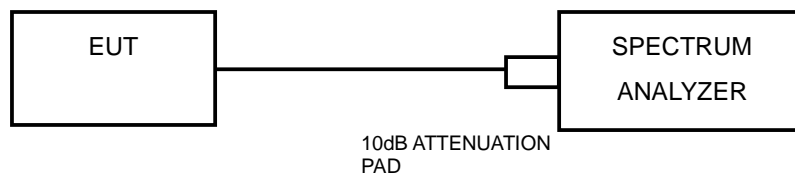


## 4.6 OUT OF BAND EMISSION MEASUREMENT

### 4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST SETUP



### 4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.6.4 TEST PROCEDURE

#### Measurement Procedure - Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.





### Measurement Procedure –Unwanted Emission Level

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

#### 4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

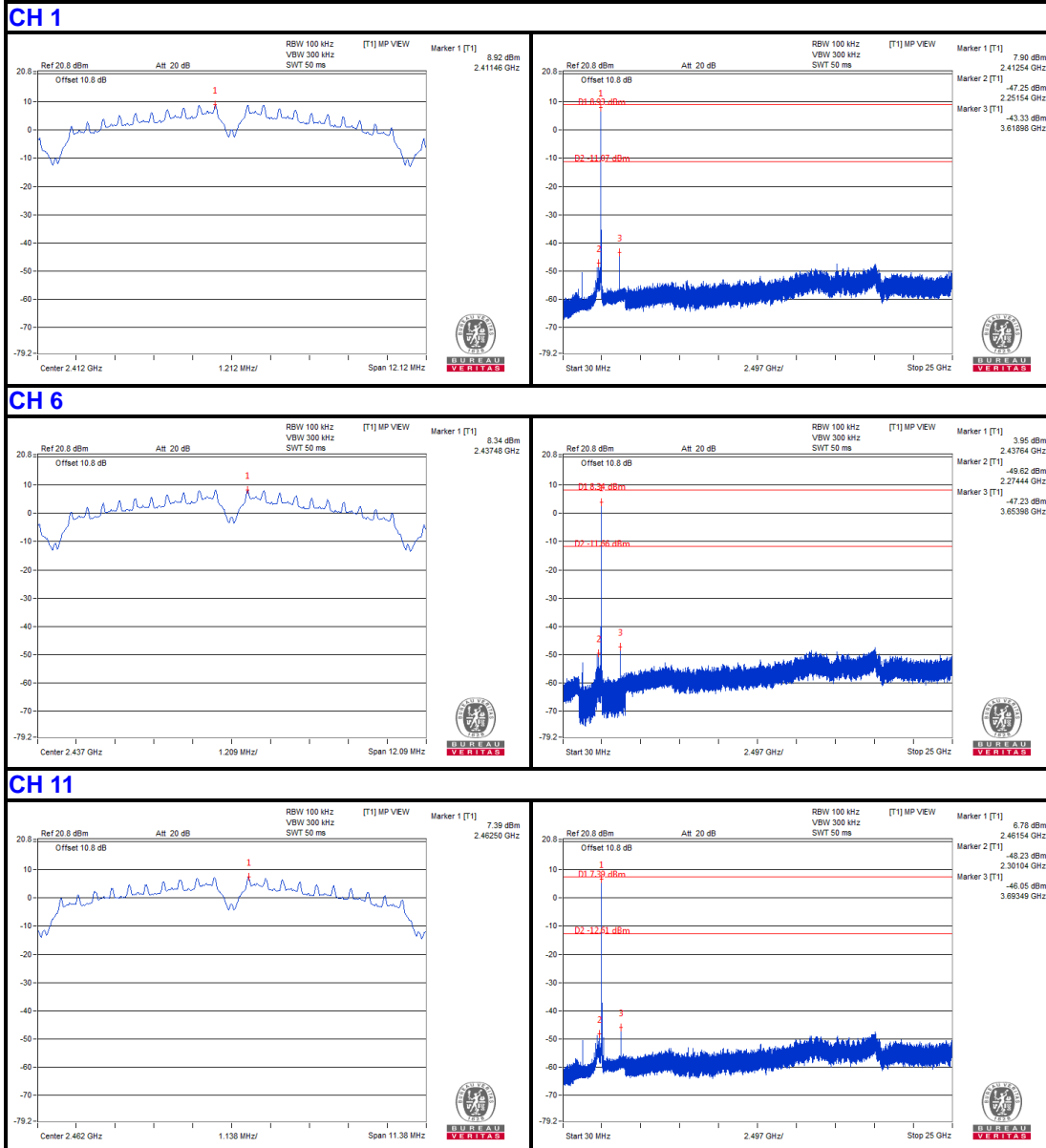
#### 4.6.6 EUT OPERATING CONDITION

Same as item 4.3.6



### 4.6.7 TEST RESULTS

#### 802.11b



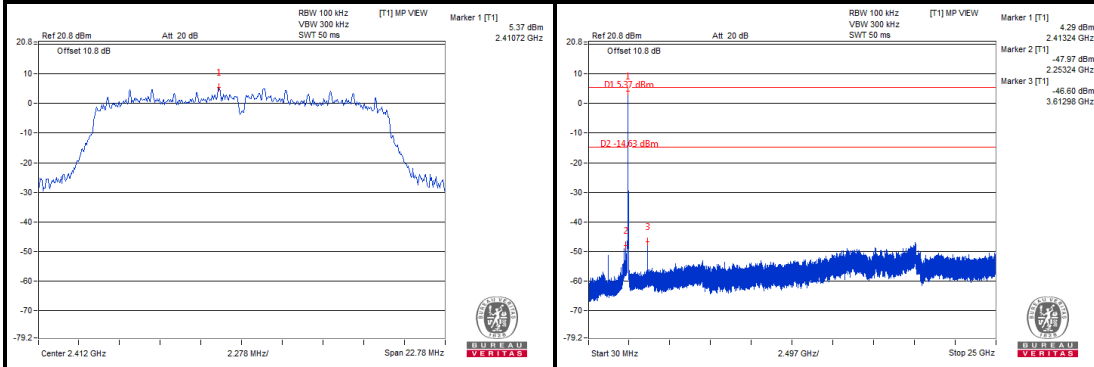


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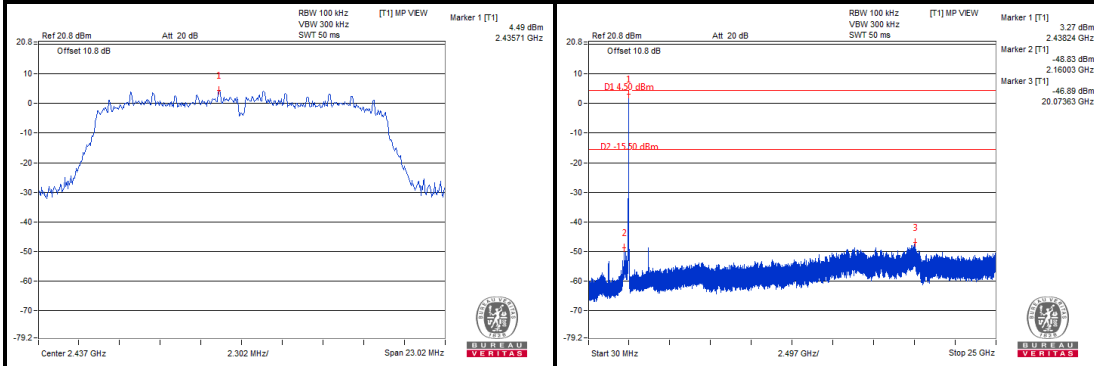
Test Report No.: RF160523N069

### 802.11g

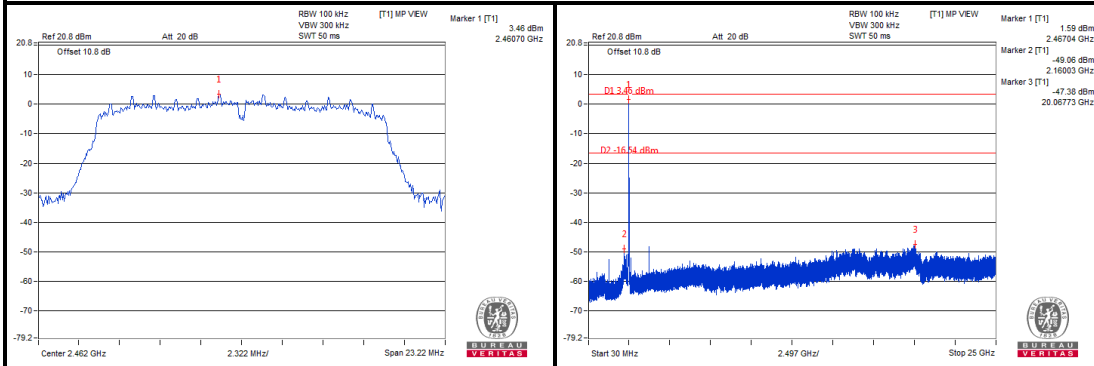
#### CH 1



#### CH 6



#### CH 11

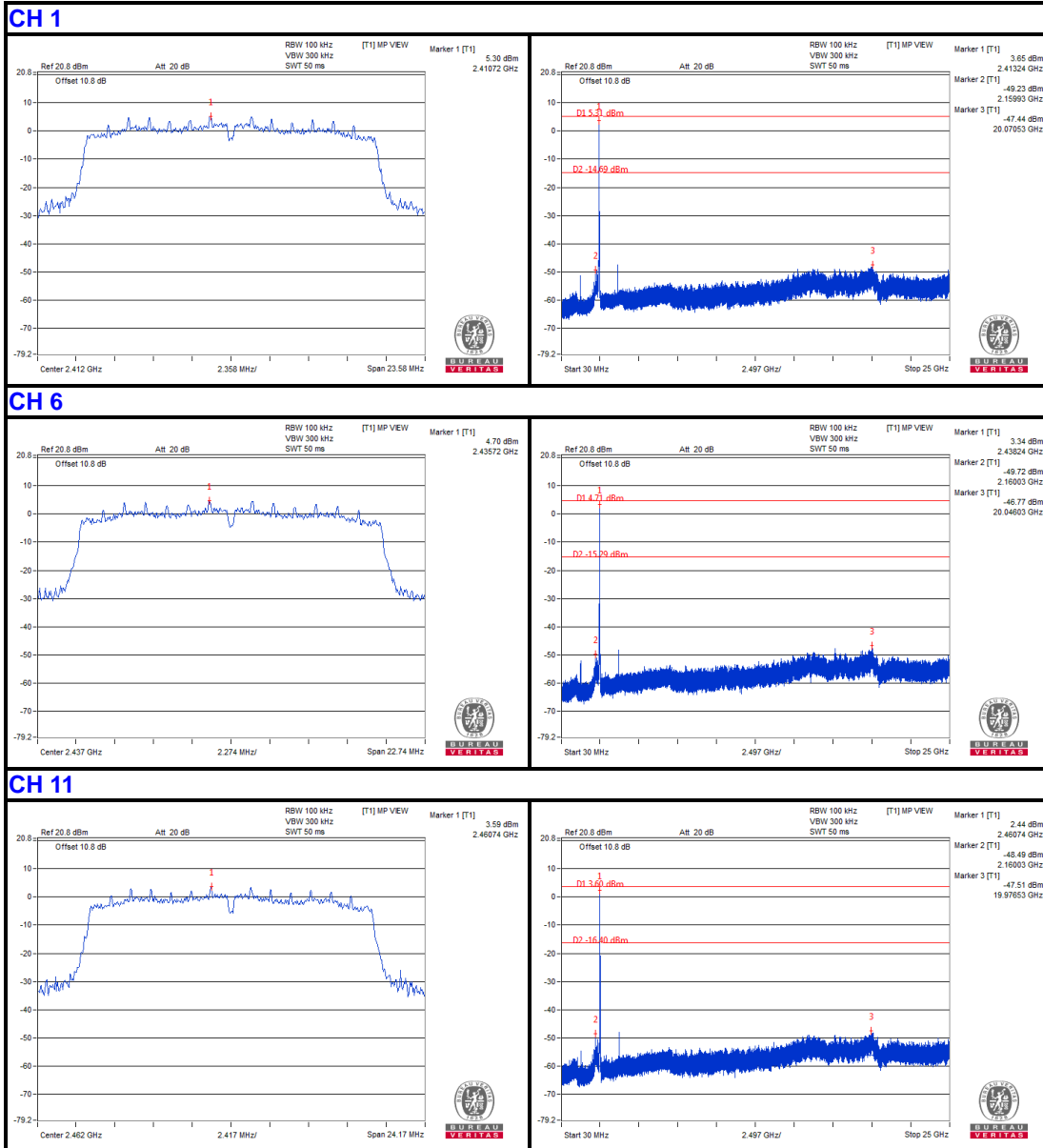




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### 802.11n 20MHz



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Guangdong 523942, China

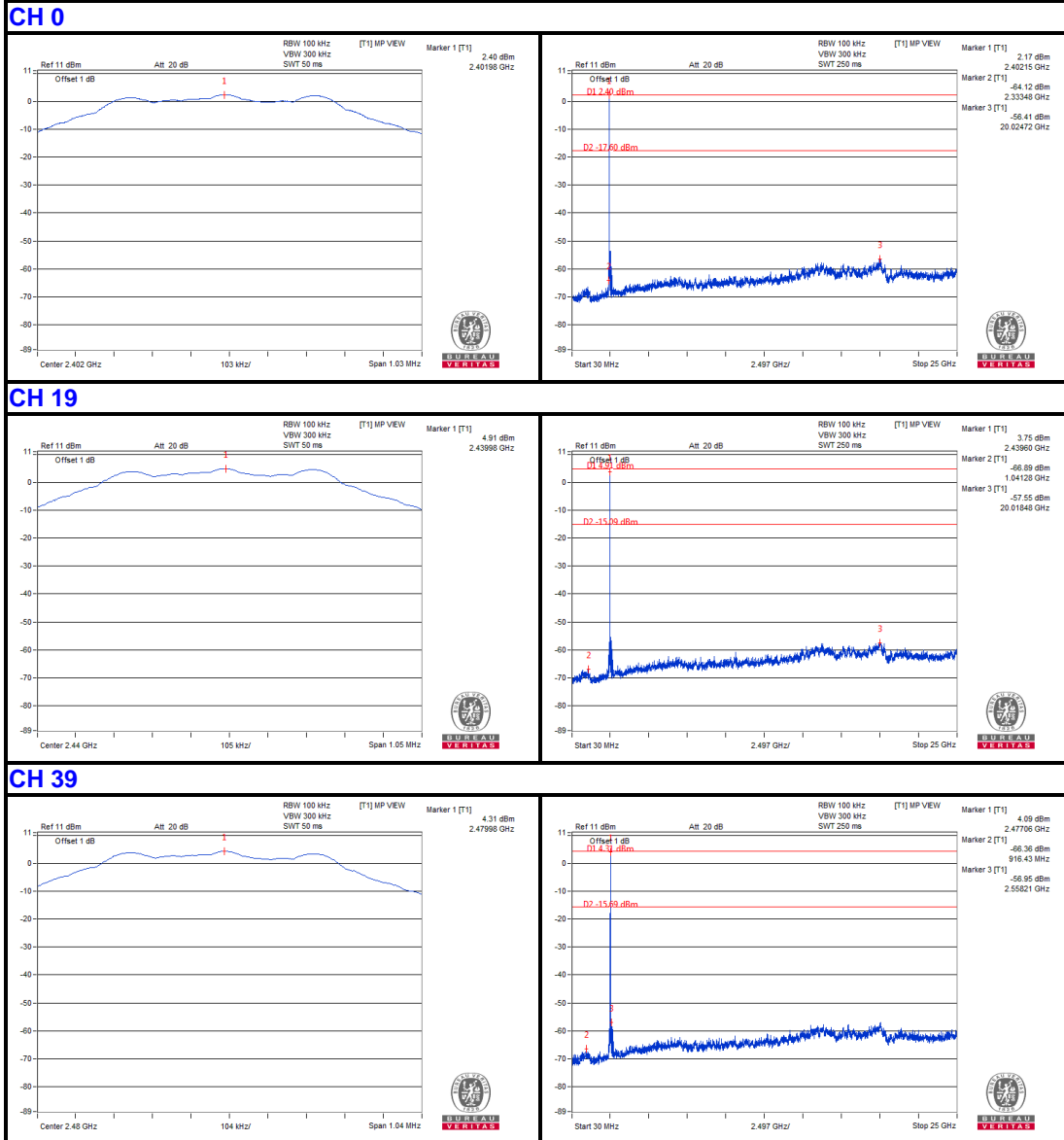
Tel: +86 769 8593 5656  
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BT-LE (GFSK)



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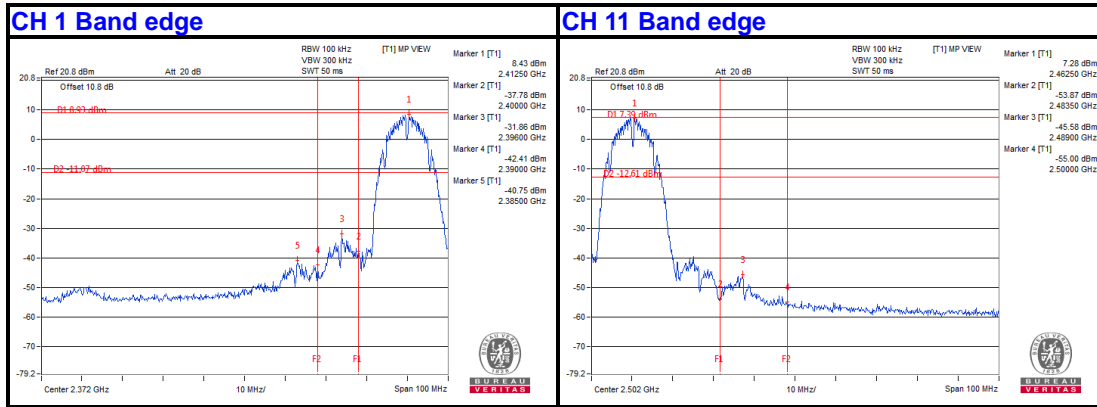
Tel: +86 769 8593 5656  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



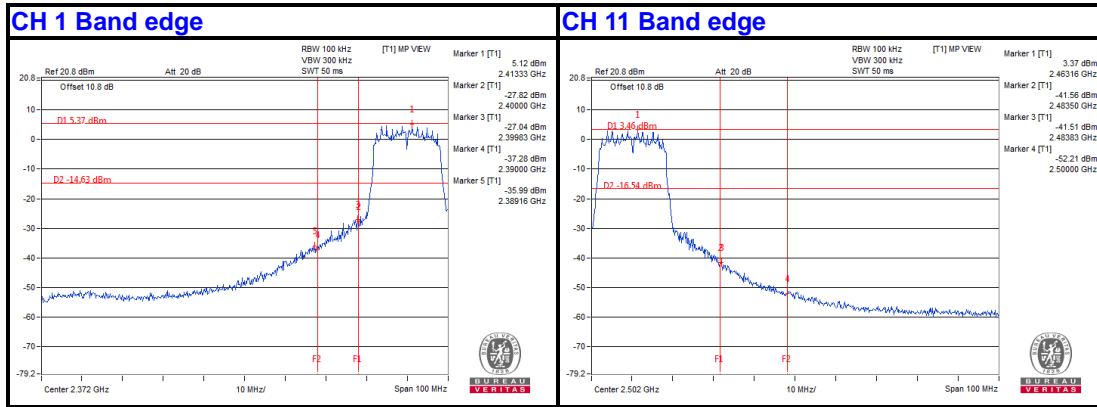
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### 802.11b



### 802.11g

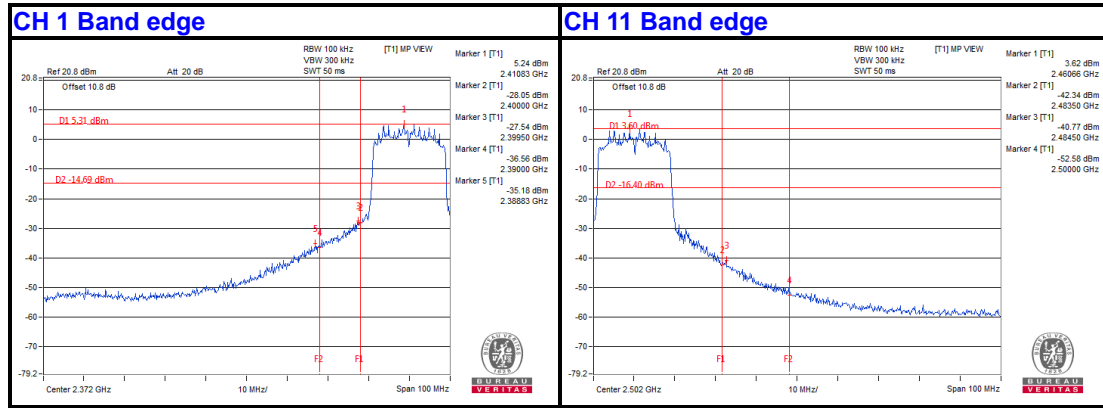




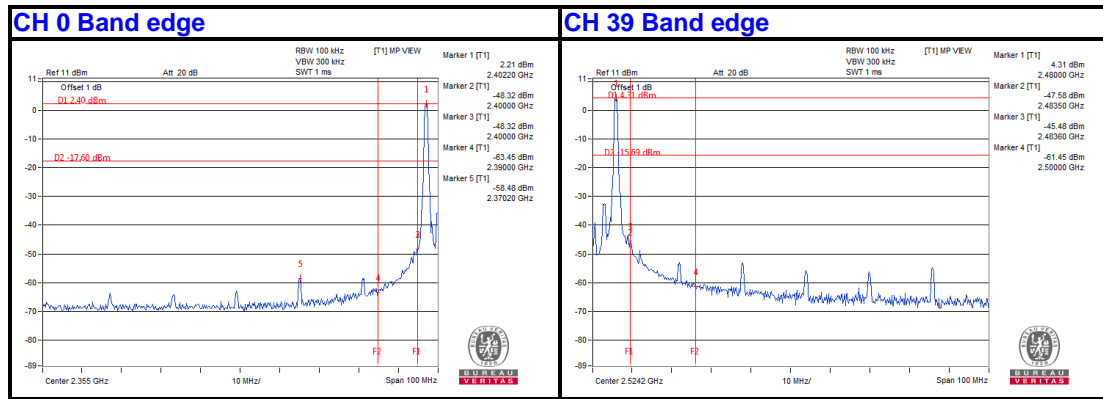
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### 802.11n 20MHz



### BT-LE (GFSK)





## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).





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## **6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

**---END---**