



BUREAU  
VERITAS

Test Report No.: RF200304W004-2



# FCC TEST REPORT (Part 15, Subpart C)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	M2003J6B2G
FCC ID:	2AFZZJ6B2G
Date of tests:	Mar. 05, 2020 ~ Apr. 10, 2020

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

- FCC Part 15, Subpart C, Section 15.247
- ANSI C63.10-2013

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

Prepared by Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Date: Apr. 13, 2020	Date: Apr. 13, 2020

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Test Report No.: RF200304W004-2

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200304W004-2	Original release	Apr. 13, 2020



# 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
15.207	AC Power Conducted Emission	Compliance
15.205 15.209	Radiated Emissions	Compliance
15.247(d)	Out of band Emission Measurement	Compliance
15.247(a)(2)	6dB bandwidth	Compliance
15.247(b)	Conducted Output power	Compliance
15.247(e)	Power Spectral Density	Compliance
15.203	Antenna Requirement	Compliance

## 1.1 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	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

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



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Mobile Phone
<b>BRAND NAME</b>	Redmi
<b>MODEL NAME</b>	M2003J6B2G
<b>NOMINAL VOLTAGE</b>	5V/9V/11V/12/20Vdc (adapter or host equipment) 3.87Vdc (Li-ion, battery)
<b>MODULATION</b>	DSSS, OFDM, GFSK
<b>TRANSMISSION RATE</b>	802.11b: 1 Mbps(Measured Worst) 802.11g: 6 Mbps(Measured Worst) 802.11n20: MCS0 (Measured Worst) 802.11n40: MCS0 (Measured Worst) BT_LE: 0.125 Mbps/ 0.5Mbps/1 Mbps/2 Mbps
<b>OPERATING FREQUENCY</b>	2412-2462MHz for 11b/g/n(HT20)/n(HT40) 2402-2480MHz for BT-LE(GFSK)
<b>MAX. OUTPUT POWER</b>	WLAN: 125.32mW (Maximum) BT-LE: 1.53mW (Maximum)
<b>ANTENNA TYPE</b>	PIFA Antenna 0 with -2.1dBi gain PIFA Antenna 1 with -2.52dBi gain
<b>IMEI CODE</b>	86531204
<b>HW VERSION</b>	P2.1
<b>SW VERSION</b>	MIUI 11
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	USB cable: 1.0 meter, non-shielded cable, with w/o ferrite core



**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a MIMO function. Physically, the EUT provides two transmitters and two receivers

<b>MODULATION MODE</b>	<b>TX/RX FUNCTION</b>
<b>802.11b</b>	2TX /2RX
<b>802.11g</b>	2TX /2RX
<b>802.11n (20MHz)</b>	2TX /2RX
<b>802.11n (40MHz)</b>	2TX /2RX
<b>BT_LE(S8)</b>	1TX /1RX
<b>BT_LE(S2)</b>	1TX /1RX
<b>BT_LE(1MHz)</b>	1TX /1RX
<b>BT_LE(2MHz)</b>	1TX /1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. The "List of Accessory" was recorded in Report NO: FV200304W004.



## 2.2 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		

7 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

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





### 2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

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

### 2.2.2 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 Y 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	
-	√	√	√	√	-

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

**NOTE:** No need to concern of Conducted Emission due to the EUT is powered by battery.

### 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 and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11n HT20	1 to 11	1	OFDM	MCS0
BT-LE	0 to 39	0	GFSK	0.25



**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 and antenna ports (if EUT with antenna diversity architecture).

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	MCS0
802.11n HT40	3 to 9	3, 6, 9	OFDM	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1&2

**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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11n HT40	3 to 9	3, 6, 9	OFDM	MCS0

**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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	MCS0
802.11n HT40	3 to 9	3, 6, 9	OFDM	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1&2



**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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	MCS0
802.11n HT40	3 to 9	3, 6, 9	OFDM	MCS0
BT-LE	0 to 39	0,19, 39	GFSK	0.125&0.5&1&2

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V/9V/11V/12/20V By Adapter	Tony Xiong
RE≥1G	23deg. C, 70%RH	DC5V/9V/11V/12/20V By Adapter	Tony Xiong
PLC	25deg. C, 52%RH	DC5V/9V/11V/12/20V By Adapter	Chase Zhou
APCM	25deg. C, 60%RH	DC 3.87V By Battery	Harris Wang



### 2.3 Duty Cycle of Test Signal

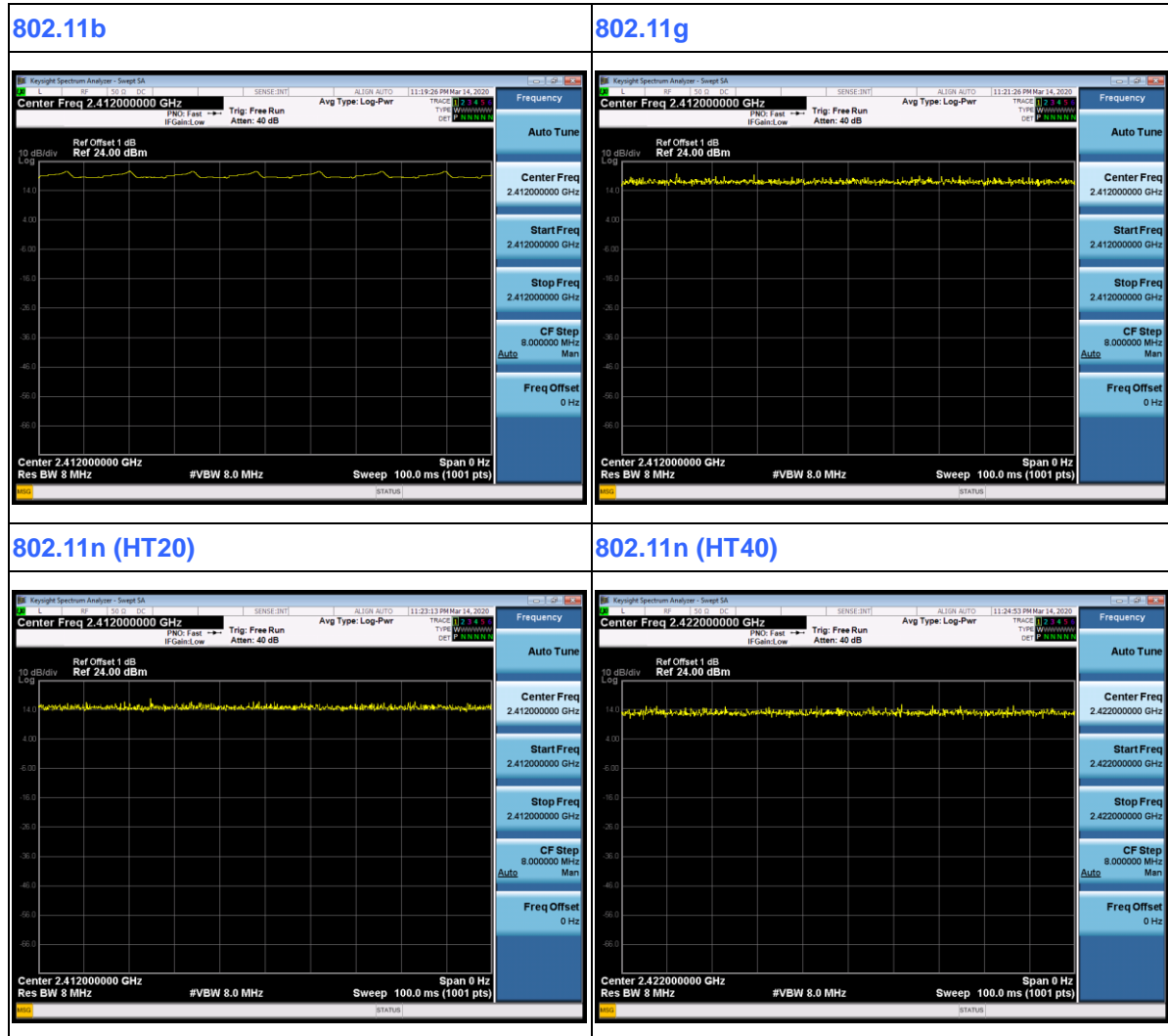
#### WIFI 2.4GHZ

802.11b: Duty cycle = 100%, Duty factor shall not be considered

802.11g: Duty cycle = 100%, Duty factor shall not be considered

802.11n (HT20): Duty cycle = 100%, Duty factor shall not be considered

802.11n (HT40): Duty cycle = 100%, Duty factor shall not be considered





**BT LE**

**BT ( S8 )** : Duty cycle = 3.102/3.762 = 0.825 < 98%, Duty factor = 10 \* log( 1/0.825 ) = 0.838

**BT ( S2 )** : Duty cycle = 1.068/1.878 = 0.569 < 98%, Duty factor = 10 \* log( 1/0.569 ) = 2.451

**BT ( 1M )** : Duty cycle = 388.0/626.0 = 0.620 < 98%, Duty factor = 10 \* log( 1/0.620 ) = 2.077

**BT ( 2M )** : Duty cycle = 204.0/626.0 = 0.326 < 98%, Duty factor = 10 \* log( 1/0.326 ) = 4.869





## 2.4 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 v05r02**

**ANSI C63.10-2013**

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

## 2.5 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad T450	PC-049PT1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m



### 3 TEST TYPES AND RESULTS

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 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.

##### 3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,20	Feb. 25,21
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,20	Feb. 25,21

- NOTE:**
1. The test was performed in CE shielded 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.



### 3.1.3 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) was not recorded.

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

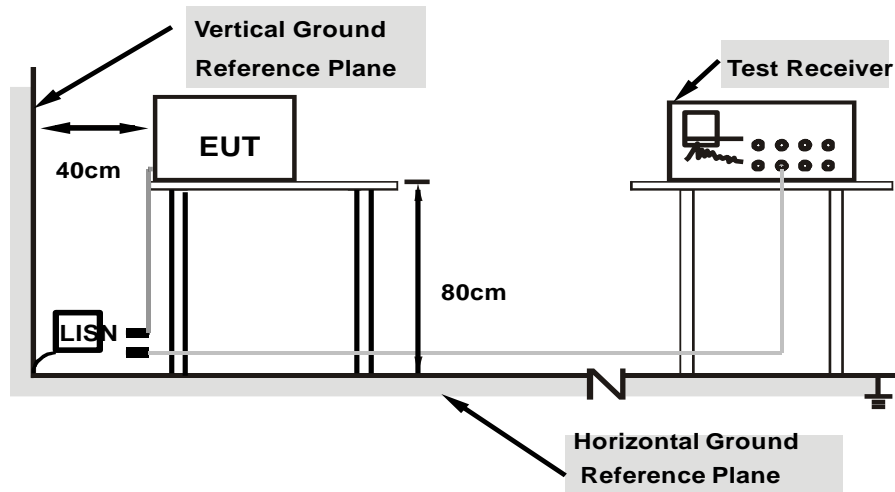
### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.





### 3.1.5 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).

### 3.1.6 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.



### 3.1.7 TEST RESULTS

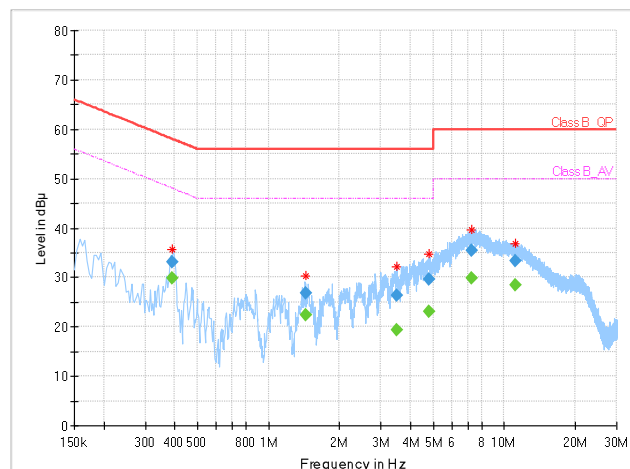
#### CONDUCTED WORST-CASE DATA:

<b>Frequency Range</b>	150KHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	23deg. C, 55RH
<b>Tested By</b>	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	CAverage (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.392000	---	29.78	48.02	-18.24	L	ON	10.0
0.392000	33.13	---	58.02	-24.89	L	ON	10.0
1.432000	---	22.44	46.00	-23.56	L	ON	10.1
1.432000	26.86	---	56.00	-29.14	L	ON	10.1
3.492000	---	19.46	46.00	-26.54	L	ON	10.2
3.492000	26.42	---	56.00	-29.58	L	ON	10.2
4.788000	---	23.19	46.00	-22.81	L	ON	10.2
4.788000	29.63	---	56.00	-26.37	L	ON	10.2
7.236000	---	29.90	50.00	-20.10	L	ON	10.3
7.236000	35.40	---	60.00	-24.60	L	ON	10.3
11.188000	---	28.55	50.00	-21.45	L	ON	10.5
11.188000	33.32	---	60.00	-26.68	L	ON	10.5

- 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.

Full Spectrum



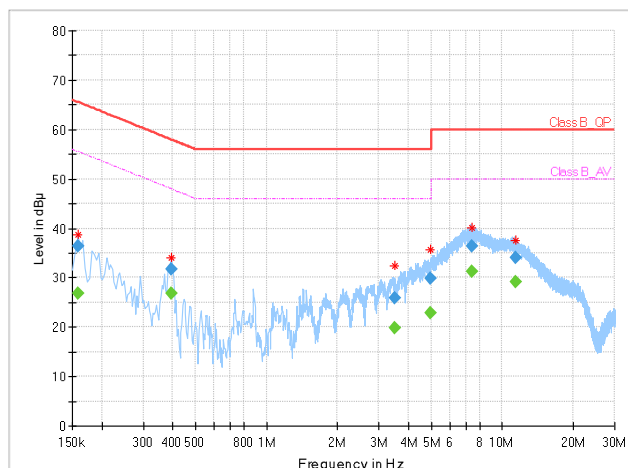


<b>Frequency Range</b>	150KHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	23deg. C, 55RH
<b>Tested By</b>	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	CAverage (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000	---	26.84	55.57	-28.73	N	ON	9.9
0.158000	36.38	---	65.57	-29.19	N	ON	9.9
0.396000	---	26.77	47.94	-21.17	N	ON	9.9
0.396000	31.64	---	57.94	-26.29	N	ON	9.9
3.488000	---	19.75	46.00	-26.25	N	ON	10.1
3.488000	25.96	---	56.00	-30.04	N	ON	10.1
4.952000	---	22.93	46.00	-23.07	N	ON	10.1
4.952000	29.81	---	56.00	-26.19	N	ON	10.1
7.404000	---	31.19	50.00	-18.81	N	ON	10.2
7.404000	36.32	---	60.00	-23.68	N	ON	10.2
11.348000	---	29.11	50.00	-20.89	N	ON	10.3
11.348000	33.98	---	60.00	-26.02	N	ON	10.3

- 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.

Full Spectrum





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 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.



### 3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Feb. 26,20	Feb. 25,21
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,20	Feb. 25,21
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,20	Feb. 25,21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Nov. 21, 19	Nov. 20, 20
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jul. 09,19	Jul. 08,20
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,20	Feb. 25,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 21,20	Jun. 20,21
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 21,20	Jun. 20,21
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 21,20	Jun. 20,21

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  2. The test was performed in 3m Chamber.
  3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



### 3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

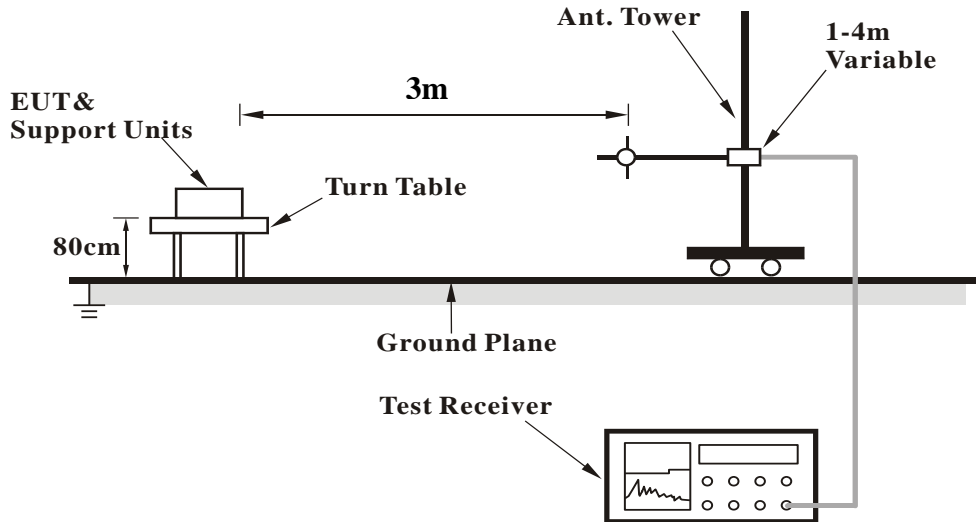
### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation

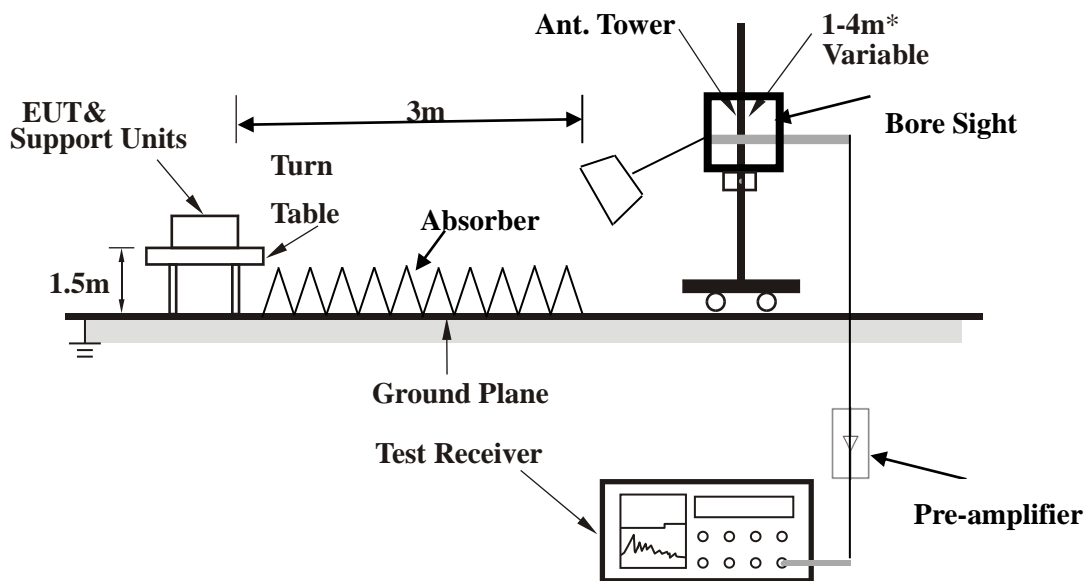


### 3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



### 3.2.6 EUT OPERATING CONDITIONS

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





### 3.2.7 TEST RESULTS

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

30 MHz – 1GHz data:

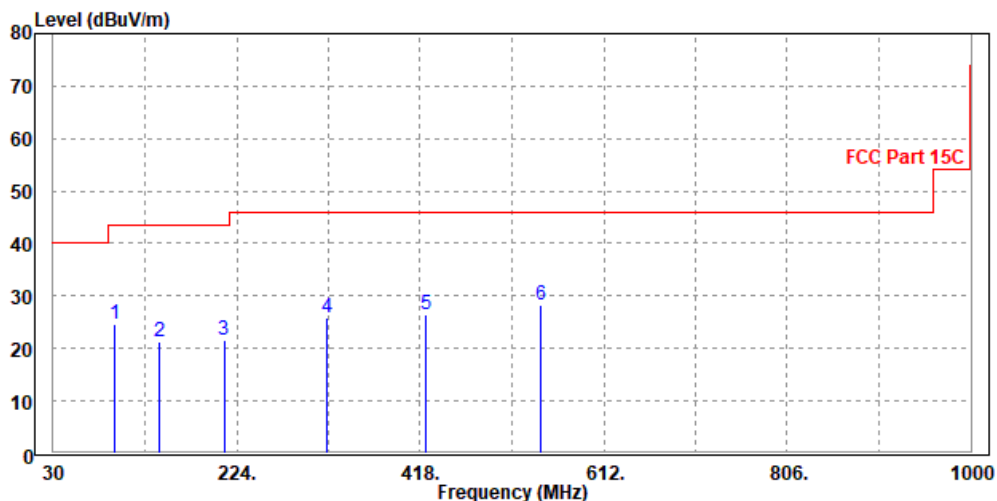
802.11n (20MHz)

<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
94.26	24.77	51.68	43.5	-18.73	9.01	1.29	37.21	101	0	Peak
142.68	21.27	47.56	43.5	-22.23	9.04	1.56	36.89	101	0	Peak
210.52	21.65	45.12	43.5	-21.85	11.26	1.84	36.57	101	0	Peak
318.55	25.82	45.61	46	-20.18	14.68	2.29	36.76	101	0	Peak
423.69	26.5	43.15	46	-19.5	17.51	2.71	36.87	101	0	Peak
545.66	28.38	43.25	46	-17.62	19.23	3.07	37.17	101	0	Peak

#### REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.



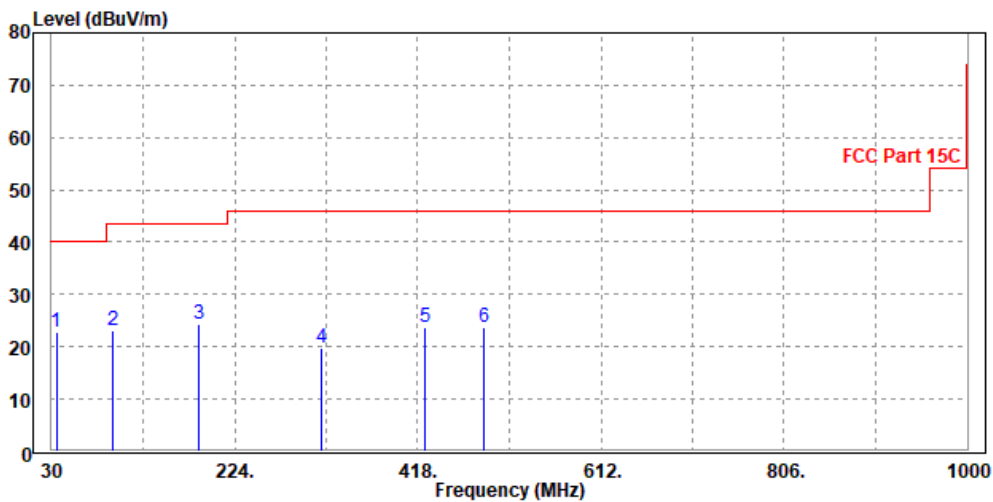


<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
35.12	22.92	45.67	40	-17.08	13.99	0.86	37.6	200	0	Peak
95.55	23.05	49.68	43.5	-20.45	9.27	1.3	37.2	200	0	Peak
185.63	24.24	48.61	43.5	-19.26	10.51	1.73	36.61	200	0	Peak
315.25	19.73	39.55	46	-26.27	14.67	2.27	36.76	200	0	Peak
425.36	23.75	40.25	46	-22.25	17.66	2.71	36.87	200	0	Peak
488.63	23.76	39.25	46	-22.24	18.54	2.95	36.98	200	0	Peak

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.





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

**Note:** For higher frequency, the emission is too low to be detected.

**SISO**

**802.11b TEST DATA:**

<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.66	61.05	74	-21.34	33.1	4.88	46.37	180	290	Peak
2390	39.7	48.09	54	-14.3	33.1	4.88	46.37	180	290	Average
2412	97.3	105.63			33.14	4.9	46.37	180	290	Peak
2412	94.63	102.96			33.14	4.9	46.37	180	290	Average
2483.5	52.26	60.38	74	-21.74	33.27	4.98	46.37	180	290	Peak
2483.5	39.9	48.02	54	-14.1	33.27	4.98	46.37	180	290	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.79	60.07	74	-23.21	32.21	4.88	46.37	180	285	Peak
2390	38.96	48.24	54	-15.04	32.21	4.88	46.37	180	285	Average
2412	97.54	106.74			32.27	4.9	46.37	180	285	Peak
2412	94.75	103.95			32.27	4.9	46.37	180	285	Average
2483.5	51.76	60.69	74	-22.24	32.46	4.98	46.37	180	285	Peak
2483.5	39.08	48.01	54	-14.92	32.46	4.98	46.37	180	285	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	55.55	63.94	74	-18.45	33.1	4.88	46.37	165	80	Peak
2390	39.57	47.96	54	-14.43	33.1	4.88	46.37	165	80	Average
2437	99.31	107.56			33.19	4.93	46.37	165	80	Peak
2437	96.18	104.43			33.19	4.93	46.37	165	80	Average
2483.5	52.8	60.92	74	-21.2	33.27	4.98	46.37	165	80	Peak
2483.5	39.81	47.93	54	-14.19	33.27	4.98	46.37	165	80	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.14	61.42	74	-21.86	32.21	4.88	46.37	160	115	Peak
2390	38.62	47.9	54	-15.38	32.21	4.88	46.37	160	115	Average
2437	101.43	110.53			32.34	4.93	46.37	160	115	Peak
2437	98.44	107.54			32.34	4.93	46.37	160	115	Average
2483.5	52.99	61.92	74	-21.01	32.46	4.98	46.37	160	115	Peak
2483.5	40.04	48.97	54	-13.96	32.46	4.98	46.37	160	115	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.13	60.52	74	-21.87	33.1	4.88	46.37	160	162	Peak
2390	39.46	47.85	54	-14.54	33.1	4.88	46.37	160	162	Average
2462	103.23	111.41			33.23	4.96	46.37	160	162	Peak
2462	100.35	108.53			33.23	4.96	46.37	160	162	Average
2483.5	52.7	60.82	74	-21.3	33.27	4.98	46.37	160	162	Peak
2483.5	40.14	48.26	54	-13.86	33.27	4.98	46.37	160	162	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.51	60.79	74	-22.49	32.21	4.88	46.37	195	180	Peak
2390	38.57	47.85	54	-15.43	32.21	4.88	46.37	195	180	Average
2462	102.51	111.52			32.4	4.96	46.37	195	180	Peak
2462	99.62	108.63			32.4	4.96	46.37	195	180	Average
2483.5	52.96	61.89	74	-21.04	32.46	4.98	46.37	195	180	Peak
2483.5	40.15	49.08	54	-13.85	32.46	4.98	46.37	195	180	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2462MHz: Fundamental frequency.



**802.11g TEST DATA:**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	58.09	66.48	74	-15.91	33.1	4.88	46.37	100	30	Peak
2390	42.63	51.02	54	-11.37	33.1	4.88	46.37	100	30	Average
2412	104.6	112.93			33.14	4.9	46.37	100	30	Peak
2412	94.41	102.74			33.14	4.9	46.37	100	30	Average
2483.5	52.59	60.71	74	-21.41	33.27	4.98	46.37	100	30	Peak
2483.5	39.89	48.01	54	-14.11	33.27	4.98	46.37	100	30	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.27	65.55	74	-17.73	32.21	4.88	46.37	124	160	Peak
2390	38.74	48.02	54	-15.26	32.21	4.88	46.37	124	160	Average
2412	98.43	107.63			32.27	4.9	46.37	124	160	Peak
2412	88.3	97.5			32.27	4.9	46.37	124	160	Average
2483.5	52.16	61.09	74	-21.84	32.46	4.98	46.37	124	160	Peak
2483.5	39.18	48.11	54	-14.82	32.46	4.98	46.37	124	160	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2412MHz: Fundamental frequency.



<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.26	61.65	74	-20.74	33.1	4.88	46.37	200	78	Peak
2390	39.73	48.12	54	-14.27	33.1	4.88	46.37	200	78	Average
2437	98.17	106.42			33.19	4.93	46.37	200	78	Peak
2437	88.13	96.38			33.19	4.93	46.37	200	78	Average
2483.5	52.5	60.62	74	-21.5	33.27	4.98	46.37	200	78	Peak
2483.5	40.03	48.15	54	-13.97	33.27	4.98	46.37	200	78	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.76	61.04	74	-22.24	32.21	4.88	46.37	192	85	Peak
2390	38.74	48.02	54	-15.26	32.21	4.88	46.37	192	85	Average
2437	100.03	109.13			32.34	4.93	46.37	192	85	Peak
2437	88.71	97.81			32.34	4.93	46.37	192	85	Average
2483.5	52.45	61.38	74	-21.55	32.46	4.98	46.37	192	85	Peak
2483.5	39.5	48.43	54	-14.5	32.46	4.98	46.37	192	85	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.8	61.19	74	-21.2	33.1	4.88	46.37	178	75	Peak
2390	39.65	48.04	54	-14.35	33.1	4.88	46.37	178	75	Average
2462	100.18	108.36			33.23	4.96	46.37	178	75	Peak
2462	90.59	98.77			33.23	4.96	46.37	178	75	Average
2483.5	53.22	61.34	74	-20.78	33.27	4.98	46.37	178	75	Peak
2483.5	40.53	48.65	54	-13.47	33.27	4.98	46.37	178	75	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	65.12	74.4	74	-8.88	32.21	4.88	46.37	100	180	Peak
2390	39.05	48.33	54	-14.95	32.21	4.88	46.37	100	180	Average
2462	102.92	111.93			32.4	4.96	46.37	100	180	Peak
2462	93.02	102.03			32.4	4.96	46.37	100	180	Average
2483.5	55.23	64.16	74	-18.77	32.46	4.98	46.37	100	180	Peak
2483.5	41.49	50.42	54	-12.51	32.46	4.98	46.37	100	180	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.





802.11n (20MHz) TEST DATA:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.66	61.05	74	-21.34	33.1	4.88	46.37	111	140	Peak
2390	39.59	47.98	54	-14.41	33.1	4.88	46.37	111	140	Average
2412	97.91	106.24			33.14	4.9	46.37	111	140	Peak
2412	88.44	96.77			33.14	4.9	46.37	111	140	Average
2483.5	52.21	60.33	74	-21.79	33.27	4.98	46.37	111	140	Peak
2483.5	39.79	47.91	54	-14.21	33.27	4.98	46.37	111	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.43	60.71	74	-22.57	32.21	4.88	46.37	100	165	Peak
2390	38.82	48.1	54	-15.18	32.21	4.88	46.37	100	165	Average
2412	101.24	110.44			32.27	4.9	46.37	100	165	Peak
2412	91.14	100.34			32.27	4.9	46.37	100	165	Average
2483.5	52.04	60.97	74	-21.96	32.46	4.98	46.37	100	165	Peak
2483.5	39.17	48.1	54	-14.83	32.46	4.98	46.37	100	165	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.13	61.52	74	-20.87	33.1	4.88	46.37	113	165	Peak
2390	39.58	47.97	54	-14.42	33.1	4.88	46.37	113	165	Average
2437	95	103.25			33.19	4.93	46.37	113	165	Peak
2437	85.21	93.46			33.19	4.93	46.37	113	165	Average
2483.5	53	61.12	74	-21	33.27	4.98	46.37	113	165	Peak
2483.5	39.7	47.82	54	-14.3	33.27	4.98	46.37	113	165	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.89	61.17	74	-22.11	32.21	4.88	46.37	150	90	Peak
2390	38.54	47.82	54	-15.46	32.21	4.88	46.37	150	90	Average
2437	96.52	105.62			32.34	4.93	46.37	150	90	Peak
2437	86.39	95.49			32.34	4.93	46.37	150	90	Average
2483.5	52.22	61.15	74	-21.78	32.46	4.98	46.37	150	90	Peak
2483.5	39.1	48.03	54	-14.9	32.46	4.98	46.37	150	90	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2437MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.62	61.01	74	-21.38	33.1	4.88	46.37	100	160	Peak
2390	39.8	48.19	54	-14.2	33.1	4.88	46.37	100	160	Average
2462	101.67	109.85			33.23	4.96	46.37	100	160	Peak
2462	88.53	96.71			33.23	4.96	46.37	100	160	Average
2483.5	56.14	64.26	74	-17.86	33.27	4.98	46.37	100	160	Peak
2483.5	41.94	50.06	54	-12.06	33.27	4.98	46.37	100	160	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.24	60.52	74	-22.76	32.21	4.88	46.37	148	98	Peak
2390	38.67	47.95	54	-15.33	32.21	4.88	46.37	148	98	Average
2462	96.49	105.5			32.4	4.96	46.37	148	98	Peak
2462	86.91	95.92			32.4	4.96	46.37	148	98	Average
2483.5	53.55	62.48	74	-20.45	32.46	4.98	46.37	148	98	Peak
2483.5	39.15	48.08	54	-14.85	32.46	4.98	46.37	148	98	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



**802.11n (40MHz) TEST DATA:**

<b>CHANNEL</b>	TX Channel 3	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	55.93	64.32	74	-18.07	33.1	4.88	46.37	100	170	Peak
2390	41.6	49.99	54	-12.4	33.1	4.88	46.37	100	170	Average
2422	99.89	108.18			33.16	4.92	46.37	100	170	Peak
2422	87.52	95.81			33.16	4.92	46.37	100	170	Average
2483.5	53.49	61.61	74	-20.51	33.27	4.98	46.37	100	170	Peak
2483.5	41	49.12	54	-13	33.27	4.98	46.37	100	170	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.94	62.22	74	-21.06	32.21	4.88	46.37	110	170	Peak
2390	39.71	48.99	54	-14.29	32.21	4.88	46.37	110	170	Average
2422	95.2	104.35			32.3	4.92	46.37	110	170	Peak
2422	84.74	93.89			32.3	4.92	46.37	110	170	Average
2483.5	52.04	60.97	74	-21.96	32.46	4.98	46.37	110	170	Peak
2483.5	38.9	47.83	54	-15.1	32.46	4.98	46.37	110	170	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2422MHz: Fundamental frequency.



<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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	55.79	64.18	74	-18.21	33.1	4.88	46.37	100	170	Peak
2390	40.43	48.82	54	-13.57	33.1	4.88	46.37	100	170	Average
2437	99.31	107.56			33.19	4.93	46.37	100	170	Peak
2437	87.28	95.53			33.19	4.93	46.37	100	170	Average
2483.5	56.91	65.03	74	-17.09	33.27	4.98	46.37	100	170	Peak
2483.5	41.86	49.98	54	-12.14	33.27	4.98	46.37	100	170	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.85	61.13	74	-22.15	32.21	4.88	46.37	110	170	Peak
2390	39.08	48.36	54	-14.92	32.21	4.88	46.37	110	170	Average
2437	93.72	102.82			32.34	4.93	46.37	110	170	Peak
2437	83.29	92.39			32.34	4.93	46.37	110	170	Average
2483.5	52.28	61.21	74	-21.72	32.46	4.98	46.37	110	170	Peak
2483.5	39.53	48.46	54	-14.47	32.46	4.98	46.37	110	170	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



<b>CHANNEL</b>	TX Channel 9	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.65	61.04	74	-21.35	33.1	4.88	46.37	100	170	Peak
2390	39.55	47.94	54	-14.45	33.1	4.88	46.37	100	170	Average
2452	101.34	109.55			33.21	4.95	46.37	100	170	Peak
2452	88.22	96.43			33.21	4.95	46.37	100	170	Average
2483.5	56.07	64.19	74	-17.93	33.27	4.98	46.37	100	170	Peak
2483.5	43.14	51.26	54	-10.86	33.27	4.98	46.37	100	170	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.5	60.78	74	-22.5	32.21	4.88	46.37	105	140	Peak
2390	38.65	47.93	54	-15.35	32.21	4.88	46.37	105	140	Average
2452	95.32	104.36			32.38	4.95	46.37	105	140	Peak
2452	84.58	93.62			32.38	4.95	46.37	105	140	Average
2483.5	53.22	62.15	74	-20.78	32.46	4.98	46.37	105	140	Peak
2483.5	40.12	49.05	54	-13.88	32.46	4.98	46.37	105	140	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2452MHz: Fundamental frequency.



**MIMO**

**802.11b TEST DATA:**

<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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.73	61.12	74	-21.27	33.1	4.88	46.37	110	65	Peak
2390	39.66	48.05	54	-14.34	33.1	4.88	46.37	110	65	Average
2412	103.8	112.13			33.14	4.9	46.37	110	65	Peak
2412	99.88	108.21			33.14	4.9	46.37	110	65	Average
2483.5	53.28	61.4	74	-20.72	33.27	4.98	46.37	110	65	Peak
2483.5	39.84	47.96	54	-14.16	33.27	4.98	46.37	110	65	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.26	61.54	74	-21.74	32.21	4.88	46.37	100	145	Peak
2390	39.2	48.48	54	-14.8	32.21	4.88	46.37	100	145	Average
2412	104.75	113.95			32.27	4.9	46.37	100	145	Peak
2412	100.11	109.31			32.27	4.9	46.37	100	145	Average
2483.5	51.34	60.27	74	-22.66	32.46	4.98	46.37	100	145	Peak
2483.5	38.71	47.64	54	-15.29	32.46	4.98	46.37	100	145	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.7	61.09	74	-21.3	33.1	4.88	46.37	110	65	Peak
2390	39.55	47.94	54	-14.45	33.1	4.88	46.37	110	65	Average
2437	104.26	112.51			33.19	4.93	46.37	110	65	Peak
2437	100.15	108.4			33.19	4.93	46.37	110	65	Average
2483.5	52.74	60.86	74	-21.26	33.27	4.98	46.37	110	65	Peak
2483.5	40.17	48.29	54	-13.83	33.27	4.98	46.37	110	65	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.77	61.05	74	-22.23	32.21	4.88	46.37	100	65	Peak
2390	38.54	47.82	54	-15.46	32.21	4.88	46.37	100	65	Average
2437	99.08	108.18			32.34	4.93	46.37	100	65	Peak
2437	96	105.1			32.34	4.93	46.37	100	65	Average
2483.5	52.04	60.97	74	-21.96	32.46	4.98	46.37	100	65	Peak
2483.5	39.18	48.11	54	-14.82	32.46	4.98	46.37	100	65	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: 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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.2	60.59	74	-21.8	33.1	4.88	46.37	110	60	Peak
2390	39.18	47.57	54	-14.82	33.1	4.88	46.37	110	60	Average
2462	105.09	113.27			33.23	4.96	46.37	110	60	Peak
2462	101.12	109.3			33.23	4.96	46.37	110	60	Average
2483.5	53.91	62.03	74	-20.09	33.27	4.98	46.37	110	60	Peak
2483.5	40.97	49.09	54	-13.03	33.27	4.98	46.37	110	60	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.66	60.94	74	-22.34	32.21	4.88	46.37	100	60	Peak
2390	38.38	47.66	54	-15.62	32.21	4.88	46.37	100	60	Average
2462	100.39	109.4			32.4	4.96	46.37	100	60	Peak
2462	97.19	106.2			32.4	4.96	46.37	100	60	Average
2483.5	51.97	60.9	74	-22.03	32.46	4.98	46.37	100	60	Peak
2483.5	39.14	48.07	54	-14.86	32.46	4.98	46.37	100	60	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2462MHz: Fundamental frequency.



**802.11g TEST DATA:**

<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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.72	65.11	74	-17.28	33.1	4.88	46.37	110	60	Peak
2390	41.94	50.33	54	-12.06	33.1	4.88	46.37	110	60	Average
2412	104.4	112.73			33.14	4.9	46.37	110	60	Peak
2412	94.18	102.51			33.14	4.9	46.37	110	60	Average
2483.5	52.62	60.74	74	-21.38	33.27	4.98	46.37	110	60	Peak
2483.5	40	48.12	54	-14	33.27	4.98	46.37	110	60	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.19	63.47	74	-19.81	32.21	4.88	46.37	100	60	Peak
2390	40.82	50.1	54	-13.18	32.21	4.88	46.37	100	60	Average
2412	102.37	111.57			32.27	4.9	46.37	100	60	Peak
2412	91.21	100.41			32.27	4.9	46.37	100	60	Average
2483.5	52.7	61.63	74	-21.3	32.46	4.98	46.37	100	60	Peak
2483.5	39.27	48.2	54	-14.73	32.46	4.98	46.37	100	60	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



<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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.43	60.82	74	-21.57	33.1	4.88	46.37	110	65	Peak
2390	39.83	48.22	54	-14.17	33.1	4.88	46.37	110	65	Average
2437	105.02	113.27			33.19	4.93	46.37	110	65	Peak
2437	94.85	103.1			33.19	4.93	46.37	110	65	Average
2483.5	53.52	61.64	74	-20.48	33.27	4.98	46.37	110	65	Peak
2483.5	40.78	48.9	54	-13.22	33.27	4.98	46.37	110	65	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.88	61.16	74	-22.12	32.21	4.88	46.37	100	60	Peak
2390	38.93	48.21	54	-15.07	32.21	4.88	46.37	100	60	Average
2437	101.23	110.33			32.34	4.93	46.37	100	60	Peak
2437	91.6	100.7			32.34	4.93	46.37	100	60	Average
2483.5	52.06	60.99	74	-21.94	32.46	4.98	46.37	100	60	Peak
2483.5	39.63	48.56	54	-14.37	32.46	4.98	46.37	100	60	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2437MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.44	60.83	74	-21.56	33.1	4.88	46.37	110	55	Peak
2390	39.6	47.99	54	-14.4	33.1	4.88	46.37	110	55	Average
2462	104.75	112.93			33.23	4.96	46.37	110	55	Peak
2462	94.82	103			33.23	4.96	46.37	110	55	Average
2483.5	58.65	66.77	74	-15.35	33.27	4.98	46.37	110	55	Peak
2483.5	43.18	51.3	54	-10.82	33.27	4.98	46.37	110	55	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.92	61.2	74	-22.08	32.21	4.88	46.37	100	65	Peak
2390	38.58	47.86	54	-15.42	32.21	4.88	46.37	100	65	Average
2462	102.75	111.76			32.4	4.96	46.37	100	65	Peak
2462	92.19	101.2			32.4	4.96	46.37	100	65	Average
2483.5	56.42	65.35	74	-17.58	32.46	4.98	46.37	100	65	Peak
2483.5	41.83	50.76	54	-12.17	32.46	4.98	46.37	100	65	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2462MHz: Fundamental frequency.



**802.11n (20MHz) TEST DATA:**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	60.28	68.67	74	-13.72	33.1	4.88	46.37	100	180	Peak
2390	44.88	53.27	54	-9.12	33.1	4.88	46.37	100	180	Average
2412	104.34	112.67			33.14	4.9	46.37	100	180	Peak
2412	81.75	90.08			33.14	4.9	46.37	100	180	Average
2483.5	53	61.12	74	-21	33.27	4.98	46.37	100	180	Peak
2483.5	40.23	48.35	54	-13.77	33.27	4.98	46.37	100	180	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.24	62.52	74	-20.76	32.21	4.88	46.37	110	150	Peak
2390	50.7	59.98	54	-3.3	32.21	4.88	46.37	110	150	Average
2412	100.67	109.87			32.27	4.9	46.37	110	150	Peak
2412	90.81	100.01			32.27	4.9	46.37	110	150	Average
2483.5	51.48	60.41	74	-22.52	32.46	4.98	46.37	110	150	Peak
2483.5	38.75	47.68	54	-15.25	32.46	4.98	46.37	110	150	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.72	61.11	74	-21.28	33.1	4.88	46.37	100	180	Peak
2390	40.14	48.53	54	-13.86	33.1	4.88	46.37	100	180	Average
2437	105.4	113.65			33.19	4.93	46.37	100	180	Peak
2437	90.58	98.83			33.19	4.93	46.37	100	180	Average
2483.5	53.6	61.72	74	-20.4	33.27	4.98	46.37	100	180	Peak
2483.5	40.65	48.77	54	-13.35	33.27	4.98	46.37	100	180	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.6	60.88	74	-22.4	32.21	4.88	46.37	110	150	Peak
2390	38.86	48.14	54	-15.14	32.21	4.88	46.37	110	150	Average
2437	98.52	107.62			32.34	4.93	46.37	110	150	Peak
2437	89.49	98.59			32.34	4.93	46.37	110	150	Average
2483.5	51.54	60.47	74	-22.46	32.46	4.98	46.37	110	150	Peak
2483.5	38.84	47.77	54	-15.16	32.46	4.98	46.37	110	150	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.42	60.81	74	-21.58	33.1	4.88	46.37	100	150	Peak
2390	39.21	47.6	54	-14.79	33.1	4.88	46.37	100	150	Average
2462	101.94	110.12			33.23	4.96	46.37	100	150	Peak
2462	91.69	99.87			33.23	4.96	46.37	100	150	Average
2483.5	53.89	62.01	74	-20.11	33.27	4.98	46.37	100	150	Peak
2483.5	40.87	48.99	54	-13.13	33.27	4.98	46.37	100	150	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.71	60.99	74	-22.29	32.21	4.88	46.37	110	155	Peak
2390	38.84	48.12	54	-15.16	32.21	4.88	46.37	110	155	Average
2462	98.73	107.74			32.4	4.96	46.37	110	155	Peak
2462	84.36	93.37			32.4	4.96	46.37	110	155	Average
2483.5	51.89	60.82	74	-22.11	32.46	4.98	46.37	110	155	Peak
2483.5	39.2	48.13	54	-14.8	32.46	4.98	46.37	110	155	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2462MHz: Fundamental frequency.



**802.11n (40MHz) TEST DATA:**

<b>CHANNEL</b>	TX Channel 3	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.63	65.02	74	-17.37	33.1	4.88	46.37	100	150	Peak
2390	43.19	51.58	54	-10.81	33.1	4.88	46.37	100	150	Average
2422	101.08	109.37			33.16	4.92	46.37	100	150	Peak
2422	90.38	98.67			33.16	4.92	46.37	100	150	Average
2483.5	53.18	61.3	74	-20.82	33.27	4.98	46.37	100	150	Peak
2483.5	40.04	48.16	54	-13.96	33.27	4.98	46.37	100	150	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.85	64.13	74	-19.15	32.21	4.88	46.37	110	155	Peak
2390	40.37	49.65	54	-13.63	32.21	4.88	46.37	110	155	Average
2422	96.79	105.94			32.3	4.92	46.37	110	155	Peak
2422	86.22	95.37			32.3	4.92	46.37	110	155	Average
2483.5	51.37	60.3	74	-22.63	32.46	4.98	46.37	110	155	Peak
2483.5	38.56	47.49	54	-15.44	32.46	4.98	46.37	110	155	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.





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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.2	62.59	74	-19.8	33.1	4.88	46.37	100	150	Peak
2390	40.47	48.86	54	-13.53	33.1	4.88	46.37	100	150	Average
2437	98.97	107.22			33.19	4.93	46.37	100	150	Peak
2437	88.82	97.07			33.19	4.93	46.37	100	150	Average
2483.5	54.74	62.86	74	-19.26	33.27	4.98	46.37	100	150	Peak
2483.5	41.25	49.37	54	-12.75	33.27	4.98	46.37	100	150	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.1	60.38	74	-22.9	32.21	4.88	46.37	110	150	Peak
2390	38.62	47.9	54	-15.38	32.21	4.88	46.37	110	150	Average
2437	97.07	106.17			32.34	4.93	46.37	110	150	Peak
2437	86.32	95.42			32.34	4.93	46.37	110	150	Average
2483.5	52.17	61.1	74	-21.83	32.46	4.98	46.37	110	150	Peak
2483.5	39.17	48.1	54	-14.83	32.46	4.98	46.37	110	150	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



<b>CHANNEL</b>	TX Channel 9	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53	61.39	74	-21	33.1	4.88	46.37	100	150	Peak
2390	39.35	47.74	54	-14.65	33.1	4.88	46.37	100	150	Average
2452	99.33	107.54			33.21	4.95	46.37	100	150	Peak
2452	89.37	97.58			33.21	4.95	46.37	100	150	Average
2483.5	54.29	62.41	74	-19.71	33.27	4.98	46.37	100	150	Peak
2483.5	41.48	49.6	54	-12.52	33.27	4.98	46.37	100	150	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.88	62.16	74	-21.12	32.21	4.88	46.37	110	140	Peak
2390	39.9	49.18	54	-14.1	32.21	4.88	46.37	110	140	Average
2452	100.08	109.12			32.38	4.95	46.37	110	140	Peak
2452	90.93	99.97			32.38	4.95	46.37	110	140	Average
2483.5	55.87	64.8	74	-18.13	32.46	4.98	46.37	110	140	Peak
2483.5	42.59	51.52	54	-11.41	32.46	4.98	46.37	110	140	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2452MHz: Fundamental frequency.



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

30 MHz – 1GHz data:

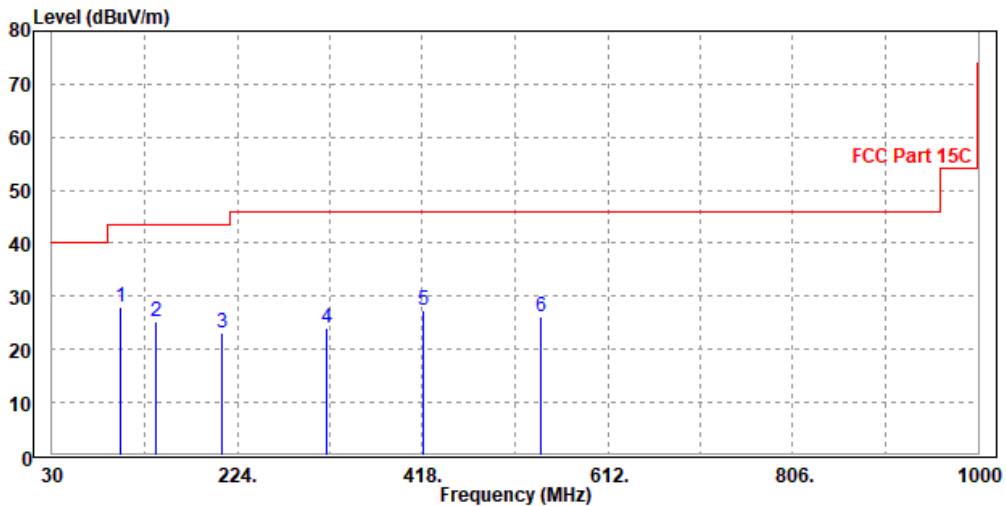
BT-LE (1M)

<b>CHANNEL</b>	TX Channel 0	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
101.85	27.88	54.12	43.5	-15.62	9.59	1.32	37.15	101	0	Peak
139.52	25.21	51.76	43.5	-18.29	8.8	1.56	36.91	101	0	Peak
207.65	23.25	46.85	43.5	-20.25	11.14	1.83	36.57	101	0	Peak
317.44	24.12	43.96	46	-21.88	14.64	2.28	36.76	101	0	Peak
418.52	27.38	44.11	46	-18.62	17.44	2.69	36.86	101	0	Peak
541.89	26.18	41.1	46	-19.82	19.17	3.06	37.15	101	0	Peak

**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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



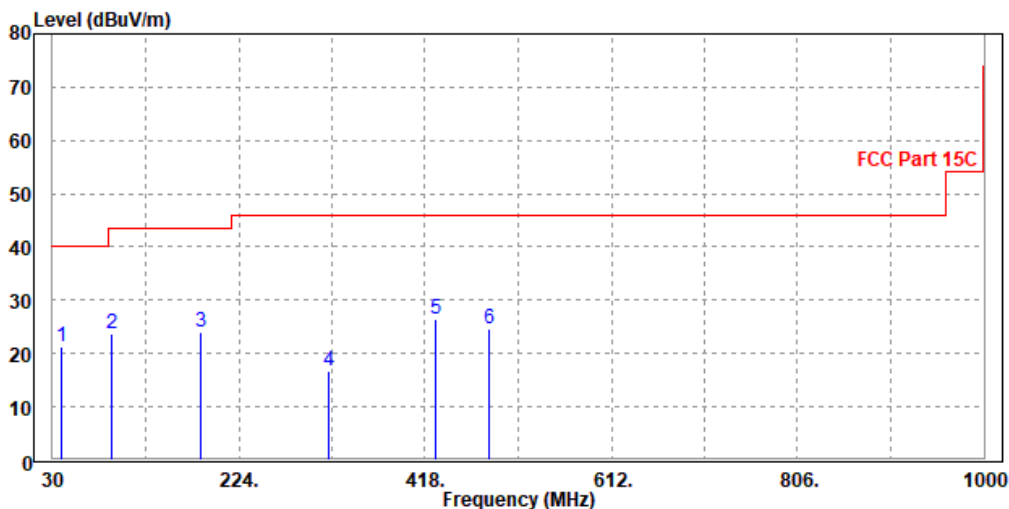


<b>CHANNEL</b>	TX Channel 0	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
38.57	21.3	44.15	40	-18.7	13.79	0.9	37.54	200	0	Peak
91.25	23.67	50.88	43.5	-19.83	8.75	1.28	37.24	200	0	Peak
184.23	24.09	48.51	43.5	-19.41	10.48	1.72	36.62	200	0	Peak
318.26	16.83	36.54	46	-29.17	14.77	2.28	36.76	200	0	Peak
429.66	26.33	42.76	46	-19.67	17.72	2.73	36.88	200	0	Peak
485.17	24.73	40.27	46	-21.27	18.49	2.94	36.97	200	0	Peak

**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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





ABOVE 1GHz TEST DATA

Note: For higher frequency, the emission is too low to be detected.

BT-LE (S8)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.97	60.36	74	-22.03	33.1	4.88	46.37	110	200	Peak
2390	38.97	47.36	54	-15.03	33.1	4.88	46.37	110	200	Average
2402	97.77	106.13			33.12	4.89	46.37	110	200	Peak
2402	92.65	101.01			33.12	4.89	46.37	110	200	Average
2483.5	52	60.12	74	-22	33.27	4.98	46.37	110	200	Peak
2483.5	39.43	47.55	54	-14.57	33.27	4.98	46.37	110	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.17	60.45	74	-22.83	32.21	4.88	46.37	130	260	Peak
2390	38.06	47.34	54	-15.94	32.21	4.88	46.37	130	260	Average
2402	89.97	99.2			32.25	4.89	46.37	130	260	Peak
2402	85.65	94.88			32.25	4.89	46.37	130	260	Average
2483.5	50.66	59.59	74	-23.34	32.46	4.98	46.37	130	260	Peak
2483.5	38.34	47.27	54	-15.66	32.46	4.98	46.37	130	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>READ LEVEL (dBuV)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA FACTOR (dB /m)</b>	<b>CABLE LOSS (dB)</b>	<b>PREAMP FACTOR (dB)</b>	<b>ANTENNA HEIGHT (cm)</b>	<b>TABLE ANGLE (Degree)</b>	<b>REMARK</b>
2390	52.8	61.19	74	-21.2	33.1	4.88	46.37	110	200	Peak
2390	39.25	47.64	54	-14.75	33.1	4.88	46.37	110	200	Average
2440	96.45	104.69			33.19	4.94	46.37	110	200	Peak
2440	91.54	99.78			33.19	4.94	46.37	110	200	Average
2483.5	51.99	60.11	74	-22.01	33.27	4.98	46.37	110	200	Peak
2483.5	39.24	47.36	54	-14.76	33.27	4.98	46.37	110	200	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>READ LEVEL (dBuV)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA FACTOR (dB /m)</b>	<b>CABLE LOSS (dB)</b>	<b>PREAMP FACTOR (dB)</b>	<b>ANTENNA HEIGHT (cm)</b>	<b>TABLE ANGLE (Degree)</b>	<b>REMARK</b>
2390	51.23	60.51	74	-22.77	32.21	4.88	46.37	130	260	Peak
2390	38.24	47.52	54	-15.76	32.21	4.88	46.37	130	260	Average
2440	88.91	98			32.34	4.94	46.37	130	260	Peak
2440	83.49	92.58			32.34	4.94	46.37	130	260	Average
2483.5	50.64	59.57	74	-23.36	32.46	4.98	46.37	130	260	Peak
2483.5	38.37	47.3	54	-15.63	32.46	4.98	46.37	130	260	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2440MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.6	61.99	74	-20.4	33.1	4.88	46.37	110	200	Peak
2390	39.5	47.89	54	-14.5	33.1	4.88	46.37	110	200	Average
2480	96.18	104.31			33.26	4.98	46.37	110	200	Peak
2480	92.77	100.9			33.26	4.98	46.37	110	200	Average
2483.5	51.81	59.93	74	-22.19	33.27	4.98	46.37	110	200	Peak
2483.5	39.13	47.25	54	-14.87	33.27	4.98	46.37	110	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.65	59.93	74	-23.35	32.21	4.88	46.37	130	260	Peak
2390	38.11	47.39	54	-15.89	32.21	4.88	46.37	130	260	Average
2480	89.58	98.52			32.45	4.98	46.37	130	260	Peak
2480	85.38	94.32			32.45	4.98	46.37	130	260	Average
2483.5	51.84	60.77	74	-22.16	32.46	4.98	46.37	130	260	Peak
2483.5	38.5	47.43	54	-15.5	32.46	4.98	46.37	130	260	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



BT-LE (S2)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.97	60.36	74	-22.03	33.1	4.88	46.37	110	200	Peak
2390	39.01	47.4	54	-14.99	33.1	4.88	46.37	110	200	Average
2402	97.27	105.63			33.12	4.89	46.37	110	200	Peak
2402	89.85	98.21			33.12	4.89	46.37	110	200	Average
2483.5	51.87	59.99	74	-22.13	33.27	4.98	46.37	110	200	Peak
2483.5	39.11	47.23	54	-14.89	33.27	4.98	46.37	110	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.26	61.54	74	-21.74	32.21	4.88	46.37	130	240	Peak
2390	38.08	47.36	54	-15.92	32.21	4.88	46.37	130	240	Average
2402	89.39	98.62			32.25	4.89	46.37	130	240	Peak
2402	81.84	91.07			32.25	4.89	46.37	130	240	Average
2483.5	50.59	59.52	74	-23.41	32.46	4.98	46.37	130	240	Peak
2483.5	38.46	47.39	54	-15.54	32.46	4.98	46.37	130	240	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.





<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.58	59.97	74	-22.42	33.1	4.88	46.37	110	200	Peak
2390	38.96	47.35	54	-15.04	33.1	4.88	46.37	110	200	Average
2440	97.68	105.92			33.19	4.94	46.37	110	200	Peak
2440	88.64	96.88			33.19	4.94	46.37	110	200	Average
2483.5	51.2	59.32	74	-22.8	33.27	4.98	46.37	110	200	Peak
2483.5	39.41	47.53	54	-14.59	33.27	4.98	46.37	110	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.8	60.08	74	-23.2	32.21	4.88	46.37	130	260	Peak
2390	38.18	47.46	54	-15.82	32.21	4.88	46.37	130	260	Average
2440	89.16	98.25			32.34	4.94	46.37	130	260	Peak
2440	80.53	89.62			32.34	4.94	46.37	130	260	Average
2483.5	50.37	59.3	74	-23.63	32.46	4.98	46.37	130	260	Peak
2483.5	38.32	47.25	54	-15.68	32.46	4.98	46.37	130	260	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2440MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.83	60.22	74	-22.17	33.1	4.88	46.37	110	200	Peak
2390	38.97	47.36	54	-15.03	33.1	4.88	46.37	110	200	Average
2480	96.19	104.32			33.26	4.98	46.37	110	200	Peak
2480	89.97	98.1			33.26	4.98	46.37	110	200	Average
2483.5	52.36	60.48	74	-21.64	33.27	4.98	46.37	110	200	Peak
2483.5	39.38	47.5	54	-14.62	33.27	4.98	46.37	110	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.44	60.72	74	-22.56	32.21	4.88	46.37	130	260	Peak
2390	37.98	47.26	54	-16.02	32.21	4.88	46.37	130	260	Average
2480	89.48	98.42			32.45	4.98	46.37	130	260	Peak
2480	83.27	92.21			32.45	4.98	46.37	130	260	Average
2483.5	51.12	60.05	74	-22.88	32.46	4.98	46.37	130	260	Peak
2483.5	38.73	47.66	54	-15.27	32.46	4.98	46.37	130	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.



BT-LE (1M)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.74	61.13	74	-21.26	33.1	4.88	46.37	110	200	Peak
2390	39.48	47.87	54	-14.52	33.1	4.88	46.37	110	200	Average
2402	98.3	106.66			33.12	4.89	46.37	110	200	Peak
2402	91.58	99.94			33.12	4.89	46.37	110	200	Average
2483.5	53.49	61.61	74	-20.51	33.27	4.98	46.37	110	200	Peak
2483.5	40.01	48.13	54	-13.99	33.27	4.98	46.37	110	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.3	60.58	74	-22.7	32.21	4.88	46.37	100	130	Peak
2390	38.53	47.81	54	-15.47	32.21	4.88	46.37	100	130	Average
2402	92.09	101.32			32.25	4.89	46.37	100	130	Peak
2402	85.05	94.28			32.25	4.89	46.37	100	130	Average
2483.5	52.18	61.11	74	-21.82	32.46	4.98	46.37	100	130	Peak
2483.5	39.06	47.99	54	-14.94	32.46	4.98	46.37	100	130	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



<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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.17	61.56	74	-20.83	33.1	4.88	46.37	110	200	Peak
2390	39.27	47.66	54	-14.73	33.1	4.88	46.37	110	200	Average
2440	96.42	104.66			33.19	4.94	46.37	110	200	Peak
2440	90.02	98.26			33.19	4.94	46.37	110	200	Average
2483.5	51.29	59.41	74	-22.71	33.27	4.98	46.37	110	200	Peak
2483.5	39.22	47.34	54	-14.78	33.27	4.98	46.37	110	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.02	61.3	74	-21.98	32.21	4.88	46.37	130	130	Peak
2390	38.63	47.91	54	-15.37	32.21	4.88	46.37	130	130	Average
2440	89.65	98.74			32.34	4.94	46.37	130	130	Peak
2440	82.54	91.63			32.34	4.94	46.37	130	130	Average
2483.5	51.46	60.39	74	-22.54	32.46	4.98	46.37	130	130	Peak
2483.5	38.76	47.69	54	-15.24	32.46	4.98	46.37	130	130	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2440MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.07	60.46	74	-21.93	33.1	4.88	46.37	110	200	Peak
2390	39.14	47.53	54	-14.86	33.1	4.88	46.37	110	200	Average
2480	96.33	104.46			33.26	4.98	46.37	110	200	Peak
2480	90.74	98.87			33.26	4.98	46.37	110	200	Average
2483.5	52.98	61.1	74	-21.02	33.27	4.98	46.37	110	200	Peak
2483.5	39.6	47.72	54	-14.4	33.27	4.98	46.37	110	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.3	60.58	74	-22.7	32.21	4.88	46.37	130	130	Peak
2390	38.53	47.81	54	-15.47	32.21	4.88	46.37	130	130	Average
2480	89.69	98.63			32.45	4.98	46.37	130	130	Peak
2480	83.49	92.43			32.45	4.98	46.37	130	130	Average
2483.5	51.91	60.84	74	-22.09	32.46	4.98	46.37	130	130	Peak
2483.5	38.69	47.62	54	-15.31	32.46	4.98	46.37	130	130	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.

**BT-LE (2M)**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.19	60.58	74	-21.81	33.1	4.88	46.37	110	200	Peak
2390	39.06	47.45	54	-14.94	33.1	4.88	46.37	110	200	Average
2402	97.85	106.21			33.12	4.89	46.37	110	200	Peak
2402	81.44	89.8			33.12	4.89	46.37	110	200	Average
2483.5	51.38	59.5	74	-22.62	33.27	4.98	46.37	110	200	Peak
2483.5	39.16	47.28	54	-14.84	33.27	4.98	46.37	110	200	Average
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.56	60.84	74	-22.44	32.21	4.88	46.37	130	260	Peak
2390	38.32	47.6	54	-15.68	32.21	4.88	46.37	130	260	Average
2402	90.91	100.14			32.25	4.89	46.37	130	260	Peak
2402	84.32	93.55			32.25	4.89	46.37	130	260	Average
2483.5	51.91	60.84	74	-22.09	32.46	4.98	46.37	130	260	Peak
2483.5	38.58	47.51	54	-15.42	32.46	4.98	46.37	130	260	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



<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**

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.29	61.68	74	-20.71	33.1	4.88	46.37	110	200	Peak
2390	39.48	47.87	54	-14.52	33.1	4.88	46.37	110	200	Average
2440	96.59	104.83			33.19	4.94	46.37	110	200	Peak
2440	80.63	88.87			33.19	4.94	46.37	110	200	Average
2483.5	52.3	60.42	74	-21.7	33.27	4.98	46.37	110	200	Peak
2483.5	39.18	47.3	54	-14.82	33.27	4.98	46.37	110	200	Average

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

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.5	59.78	74	-23.5	32.21	4.88	46.37	130	260	Peak
2390	38.05	47.33	54	-15.95	32.21	4.88	46.37	130	260	Average
2440	88.05	97.14			32.34	4.94	46.37	130	260	Peak
2440	72.52	81.61			32.34	4.94	46.37	130	260	Average
2483.5	51.1	60.03	74	-22.9	32.46	4.98	46.37	130	260	Peak
2483.5	38.3	47.23	54	-15.7	32.46	4.98	46.37	130	260	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2440MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.3	60.69	74	-21.7	33.1	4.88	46.37	110	200	Peak
2390	38.81	47.2	54	-15.19	33.1	4.88	46.37	110	200	Average
2480	98.09	106.22			33.26	4.98	46.37	110	200	Peak
2480	83.45	91.58			33.26	4.98	46.37	110	200	Average
2483.5	52.93	61.05	74	-21.07	33.27	4.98	46.37	110	200	Peak
2483.5	39.23	47.35	54	-14.77	33.27	4.98	46.37	110	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.69	59.97	74	-23.31	32.21	4.88	46.37	130	130	Peak
2390	37.92	47.2	54	-16.08	32.21	4.88	46.37	130	130	Average
2480	89.26	98.2			32.45	4.98	46.37	130	130	Peak
2480	77.89	86.83			32.45	4.98	46.37	130	130	Average
2483.5	51.15	60.08	74	-22.85	32.46	4.98	46.37	130	130	Peak
2483.5	38.26	47.19	54	-15.74	32.46	4.98	46.37	130	130	Average

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.





### 3.3 6 dB BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 26,20	Feb. 25,21
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,20	Feb. 25,21

**NOTE:**

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

#### 3.3.3 TEST PROCEDURE

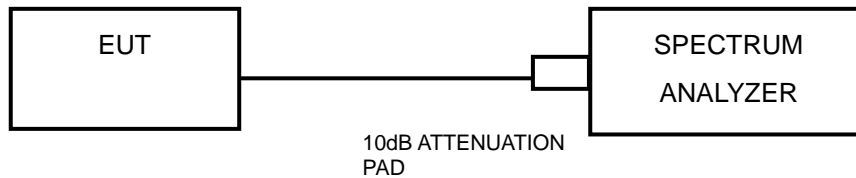
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points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



### 3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

### 3.3.5 TEST SETUP



### 3.3.6 EUT OPERATING CONDITIONS

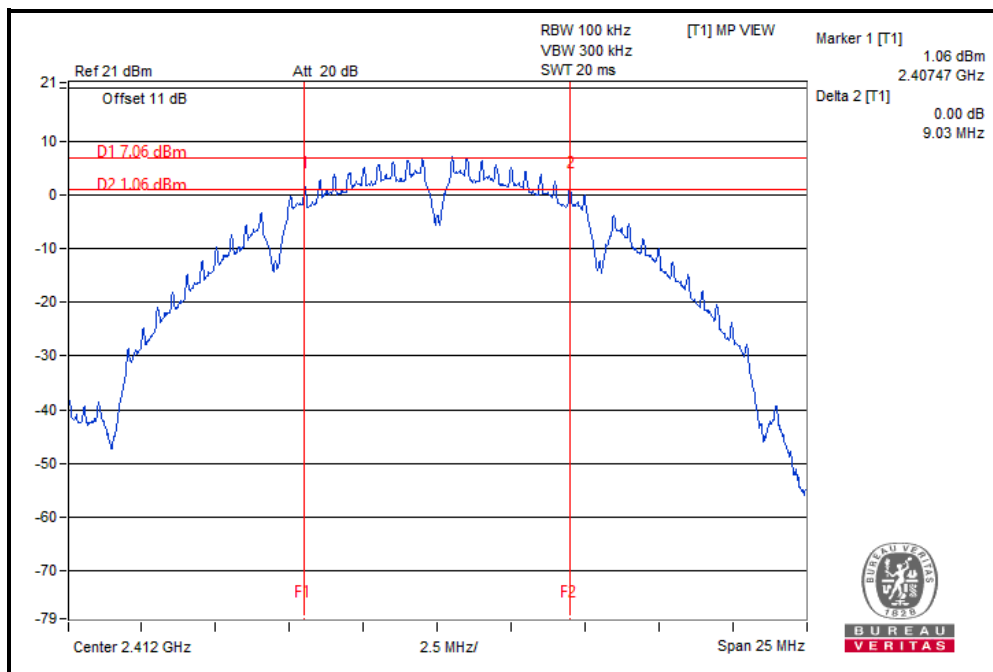
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



### 3.3.7 TEST RESULTS

#### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	9.03	0.5	PASS
6	2437	8.08	0.5	PASS
11	2462	8.58	0.5	PASS



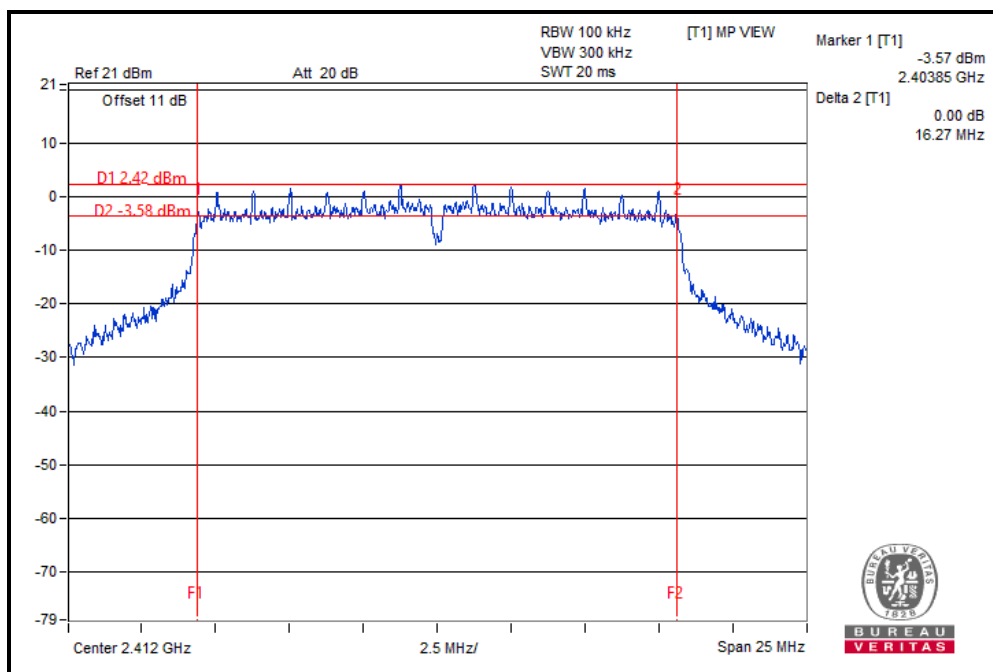


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Test Report No.: RF200304W004-2

802.11g

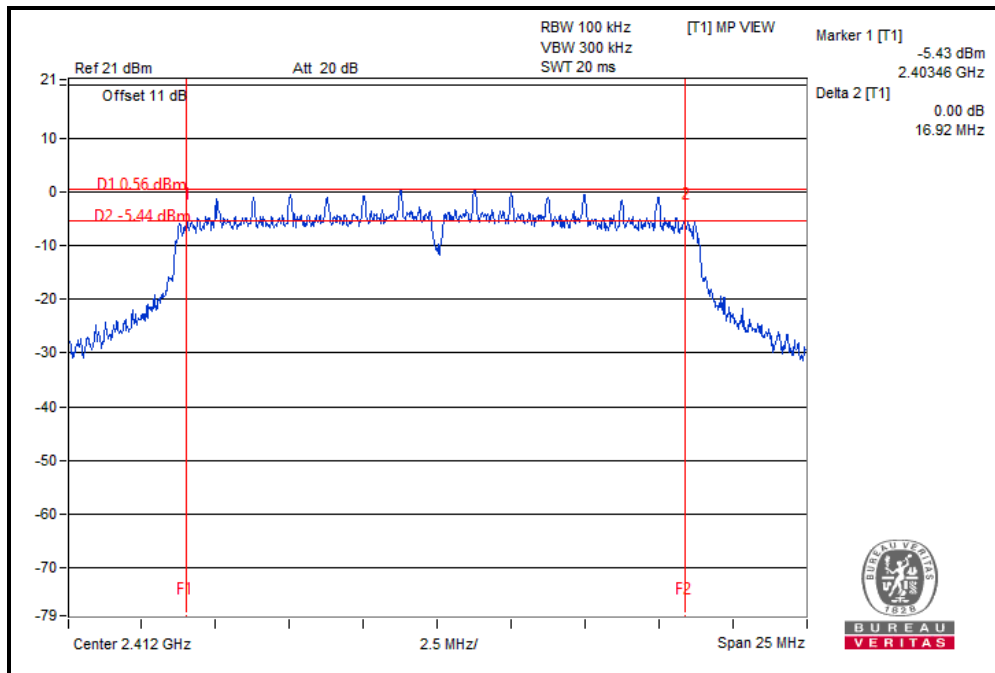
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.27	0.5	PASS
6	2437	15.36	0.5	PASS
11	2462	15.91	0.5	PASS





**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.92	0.5	PASS
6	2437	15.47	0.5	PASS
11	2462	16.92	0.5	PASS



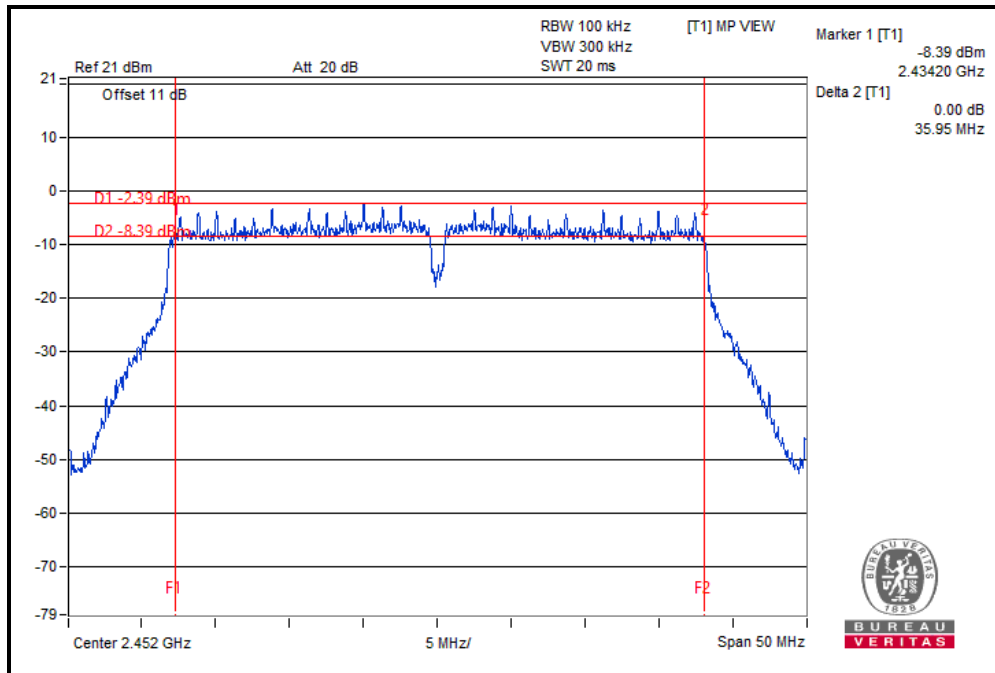


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**Test Report No.: RF200304W004-2**

**802.11n (40MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	35.51	0.5	PASS
6	2437	35.82	0.5	PASS
9	2452	35.95	0.5	PASS



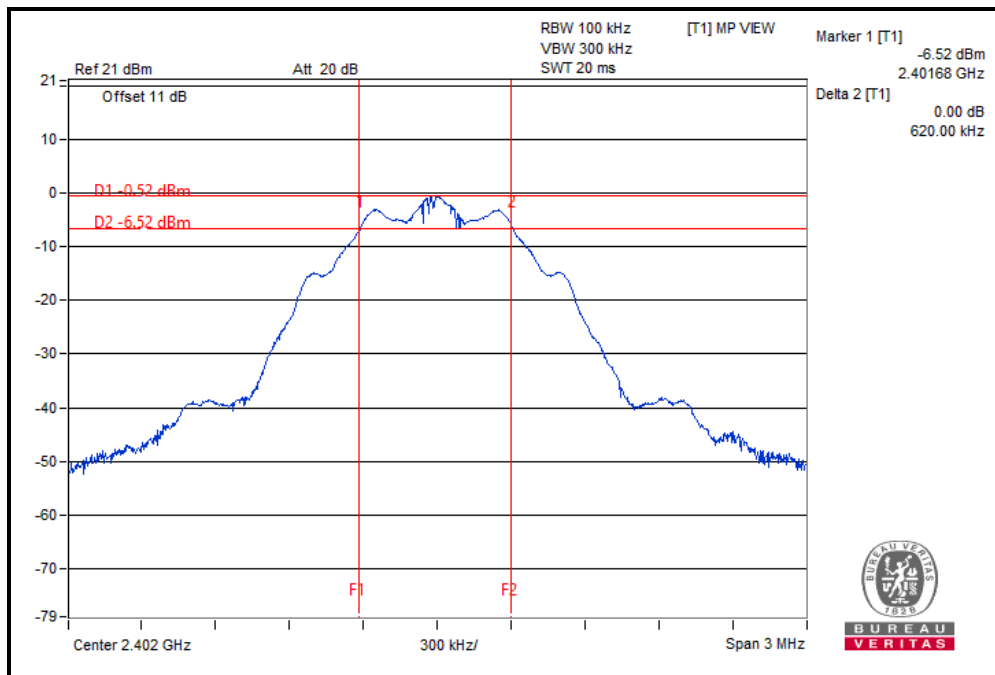


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**Test Report No.: RF200304W004-2**

**BT-LE (GFSK) (S8)**

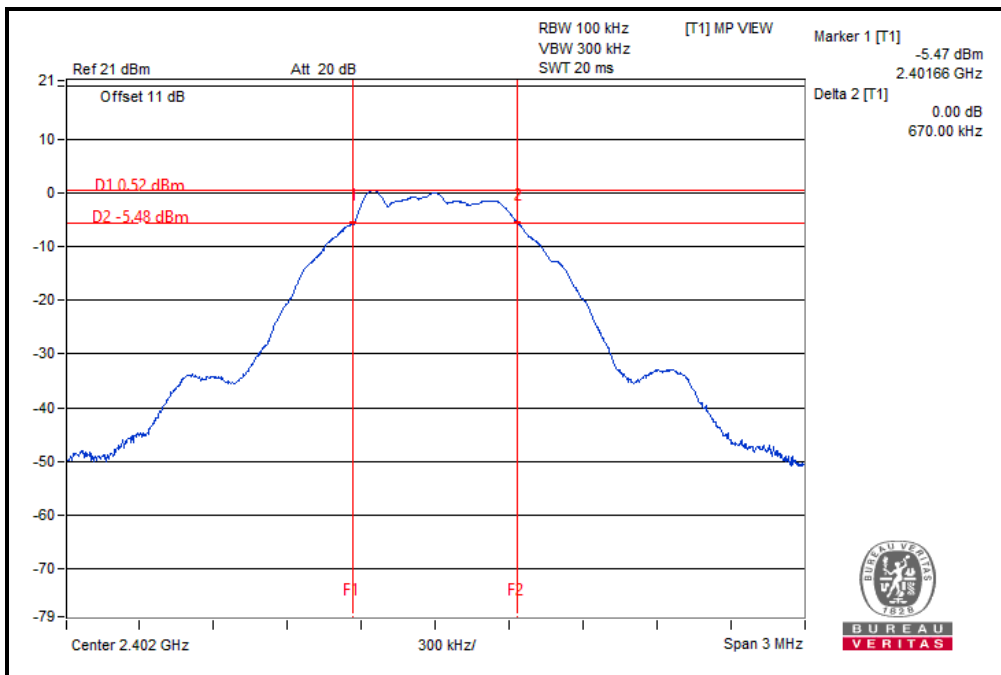
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.62	0.5	PASS
19	2440	0.62	0.5	PASS
39	2480	0.62	0.5	PASS





**BT-LE (GFSK) (S2)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.67	0.5	PASS
19	2440	0.67	0.5	PASS
39	2480	0.66	0.5	PASS





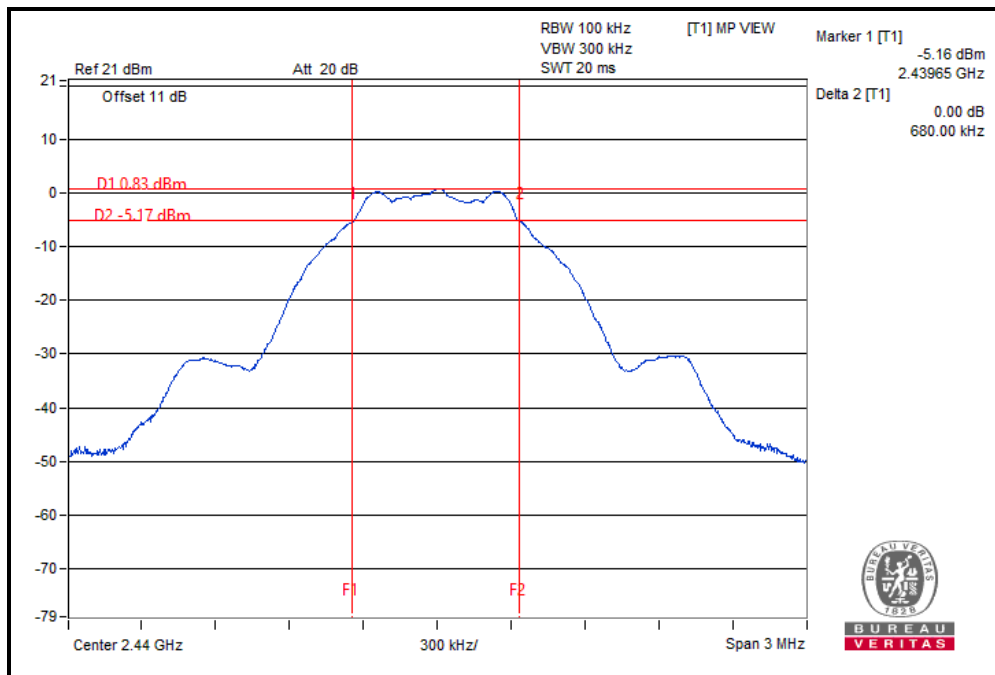


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

**BT-LE (GFSK) (1M)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.66	0.5	PASS
19	2440	0.68	0.5	PASS
39	2480	0.67	0.5	PASS



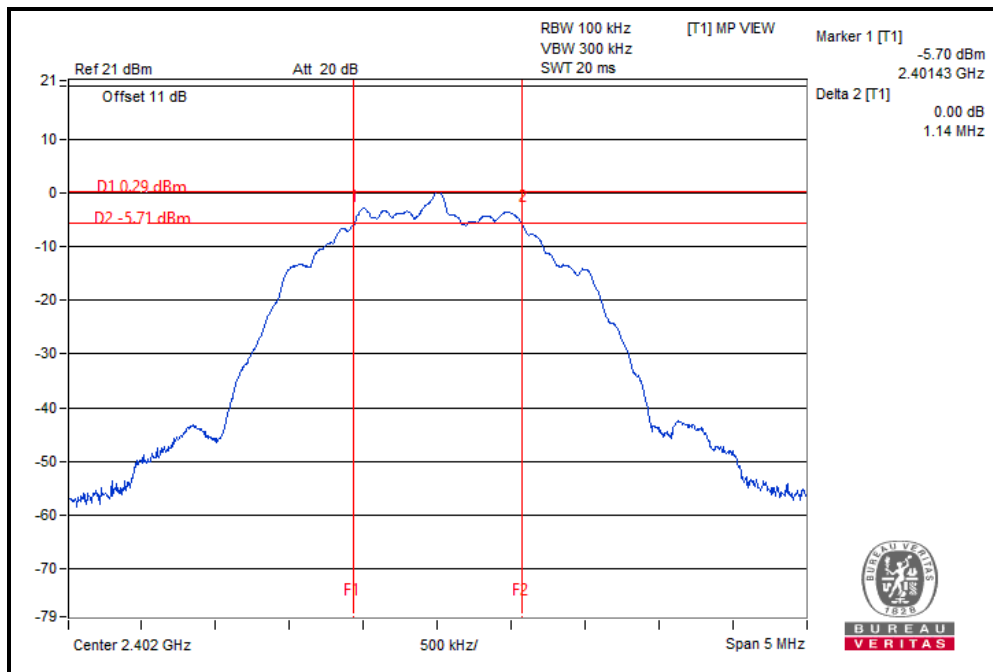


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

**BT-LE (GFSK) (2M)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.14	0.5	PASS
19	2440	1.14	0.5	PASS
39	2480	1.14	0.5	PASS



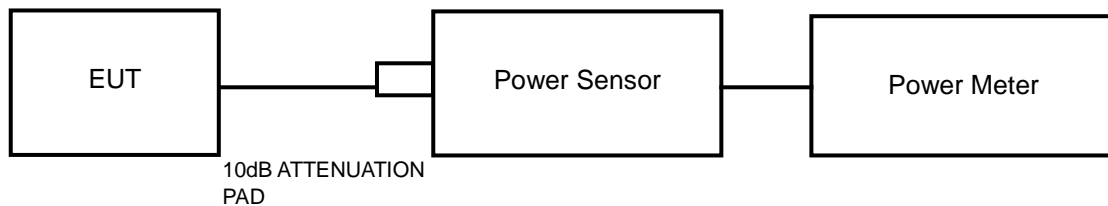


### 3.4 CONDUCTED OUTPUT POWER

#### 3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

#### 3.4.2 TEST SETUP



#### 3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.4.4 TEST PROCEDURES

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

#### 3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 3.4.6 EUT OPERATING CONDITIONS

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



### 3.4.7 TEST RESULTS

#### 3.4.7.1 MAXIMUM PEAK OUTPUT POWER

**SISO MODE:**

##### 802.11b ANT0

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	18.18	65.77	1	PASS
6	2437	18.63	72.95	1	PASS
11	2462	18.61	72.61	1	PASS

##### 802.11b ANT1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	18.79	75.68	1	PASS
6	2437	18.72	74.47	1	PASS
11	2462	18.64	73.11	1	PASS

##### 802.11g ANT0

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	17.63	57.94	1	PASS
6	2437	17.88	61.38	1	PASS
11	2462	17.02	50.35	1	PASS



**802.11g ANT1**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	18.48	70.47	1	PASS
6	2437	17.65	58.21	1	PASS
11	2462	17.26	53.21	1	PASS

**802.11n (20MHz) ANT0**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	15.71	37.24	1	PASS
6	2437	16.04	40.18	1	PASS
11	2462	15.10	32.36	1	PASS

**802.11n (20MHz) ANT1**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
1	2412	16.19	41.59	1	PASS
6	2437	15.46	35.16	1	PASS
11	2462	15.17	32.89	1	PASS

**802.11n (40MHz) ANT0**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
3	2422	18.02	63.39	1	PASS
6	2437	17.97	62.66	1	PASS
9	2452	17.86	61.09	1	PASS



**802.11n (40MHz) ANT1**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
3	2422	18.41	69.34	1	PASS
6	2437	17.48	55.98	1	PASS
9	2452	17.61	57.68	1	PASS

**MIMO MODE:**

**802.11b ANT0+1**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)		PEAK POWER (mW)		PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/ FAIL
		Chain 0	Chain 1	Chain 0	Chain 1				
		1	2412	17.98	17.96				
6	2437	18.37	18.16	68.71	65.46	21.28	134.17	1	PASS
11	2462	17.37	18.47	54.58	70.31	20.97	124.88	1	PASS

**802.11g ANT0+1**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)		PEAK POWER (mW)		PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/ FAIL
		Chain 0	Chain 1	Chain 0	Chain 1				
		1	2412	17.33	17.45				
6	2437	17.46	17.52	55.72	56.49	20.50	112.21	1	PASS
11	2462	16.92	17.69	49.20	58.75	20.33	107.95	1	PASS



802.11n (20MHz) ANT0+1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)		PEAK POWER (mW)		PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/ FAIL
		Chain	Chain	Chain	Chain				
		0	1	0	1				
1	2412	15.37	15.11	34.43	32.43	18.25	66.87	1	PASS
6	2437	15.71	15.38	37.24	34.51	18.56	71.75	1	PASS
11	2462	14.96	15.51	31.33	35.56	18.25	66.90	1	PASS

802.11n (40MHz) ANT0+1

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)		PEAK POWER (mW)		PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/ FAIL
		Chain	Chain	Chain	Chain				
		0	1	0	1				
3	2422	17.42	17.55	55.21	56.89	20.50	112.09	1	PASS
6	2437	17.78	17.16	59.98	52.00	20.49	111.98	1	PASS
9	2452	17.65	18.05	58.21	63.83	20.86	122.04	1	PASS



**BT-LE (1MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	1.24	1.33	1	PASS
19	2440	1.22	1.32	1	PASS
39	2480	1.70	1.48	1	PASS

**BT-LE (2MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	1.32	1.36	1	PASS
19	2440	1.41	1.38	1	PASS
39	2480	1.84	1.53	1	PASS

**BT-LE (S8)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	1.21	1.32	1	PASS
19	2440	1.26	1.34	1	PASS
39	2480	1.66	1.47	1	PASS

**BT-LE (S2)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	1.30	1.35	1	PASS
19	2440	1.31	1.35	1	PASS
39	2480	1.80	1.51	1	PASS





### 3.4.7.2 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.

#### SISO MODE:

##### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	PASS/FAIL
1	2412	15.92	16.6	N/A
6	2437	16.30	16.54	N/A
11	2462	15.62	16.35	N/A

##### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	PASS/FAIL
1	2412	12.91	13.72	N/A
6	2437	13.23	12.90	N/A
11	2462	12.39	12.51	N/A



**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	PASS/FAIL
1	2412	10.86	11.43	N/A
6	2437	11.20	10.71	N/A
11	2462	10.33	10.38	N/A

**802.11n (40MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	PASS/FAIL
3	2422	11.01	11.73	N/A
6	2437	11.43	10.86	N/A
9	2452	11.14	10.85	N/A



**MIMO MODE:**

**802.11b**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	AVERAGE POWER Total (dBm)	PASS/FAIL
1	2412	15.81	15.39	18.62	N/A
6	2437	16.08	15.60	18.86	N/A
11	2462	15.13	15.98	18.58	N/A

**802.11g**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	AVERAGE POWER Total (dBm)	PASS/FAIL
1	2412	12.70	12.49	15.61	N/A
6	2437	12.79	12.57	15.69	N/A
11	2462	12.23	12.64	15.45	N/A



**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	AVERAGE POWER Total (dBm)	PASS/FAIL
1	2412	10.65	10.31	13.49	N/A
6	2437	11.00	10.34	13.69	N/A
11	2462	10.13	10.46	13.31	N/A

**802.11n (40MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER ANT0 (dBm)	AVERAGE POWER ANT1 (dBm)	AVERAGE POWER Total (dBm)	PASS/FAIL
3	2422	10.86	10.85	13.87	N/A
6	2437	11.25	10.56	13.93	N/A
9	2452	10.98	11.20	14.10	N/A



**BT-LE (1MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	1.10	N/A
19	2440	1.07	N/A
39	2480	1.50	N/A

**BT-LE (2MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	1.00	N/A
19	2440	1.21	N/A
39	2480	1.58	N/A

**BT-LE (S8)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	1.07	N/A
19	2440	1.13	N/A
39	2480	1.50	N/A

**BT-LE (S2)**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	1.14	N/A
19	2440	1.18	N/A
39	2480	1.62	N/A

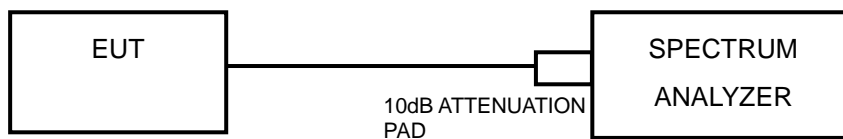


### 3.5 POWER SPECTRAL DENSITY MEASUREMENT

#### 3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

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

#### 3.5.2 TEST SETUP



#### 3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW  $\geq 3 \times$  RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

#### 3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 3.5.6 EUT OPERATING CONDITION

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

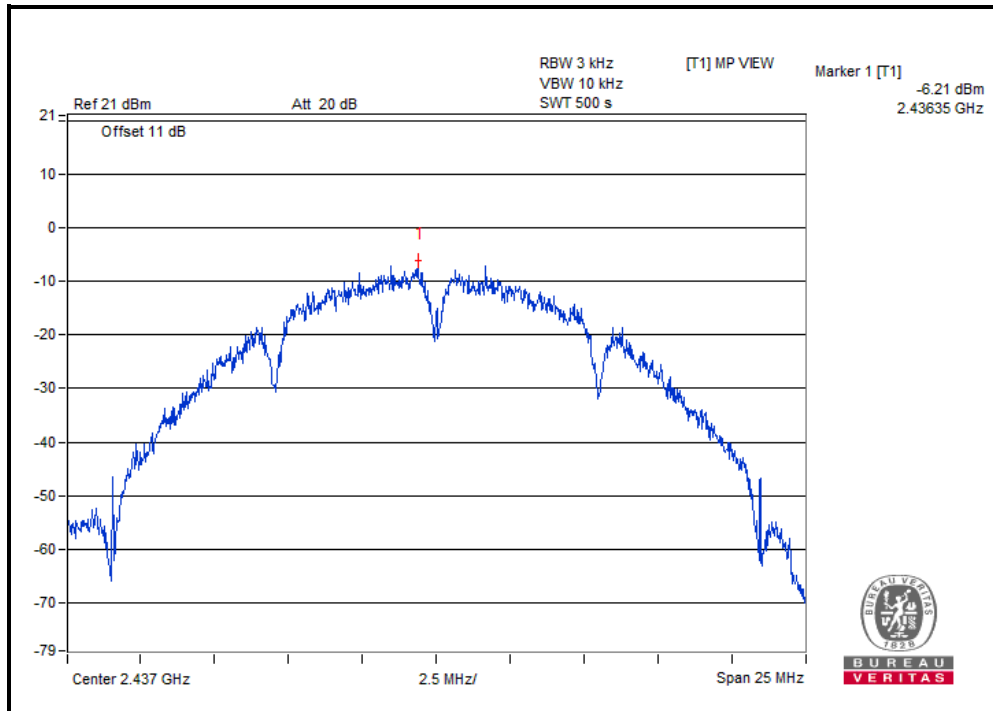


### 3.5.7 TEST RESULTS

#### SISO MODE:

#### 802.11b

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-7.83	-7.81	8	PASS
6	2437	-6.37	-6.21	8	PASS
11	2462	-7.32	-7.28	8	PASS



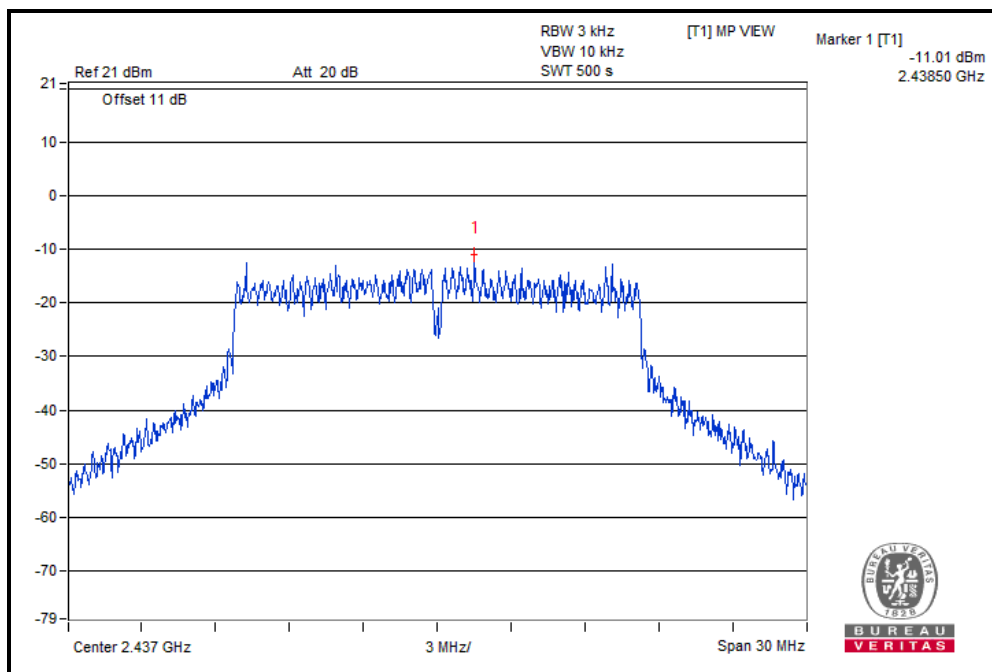


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11g

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.48	-11.79	8	PASS
6	2437	-11.01	-12.68	8	PASS
11	2462	-13.42	-12.03	8	PASS





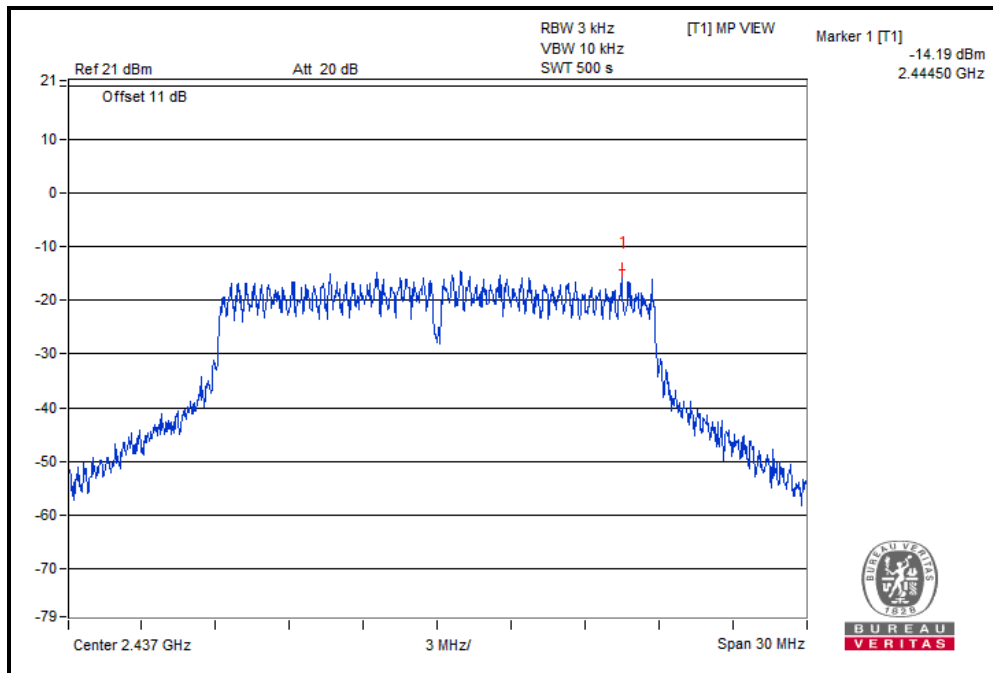


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11n (20MHz)

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-15.13	-15.39	8	PASS
6	2437	-14.19	-14.23	8	PASS
11	2462	-15.38	-15.18	8	PASS



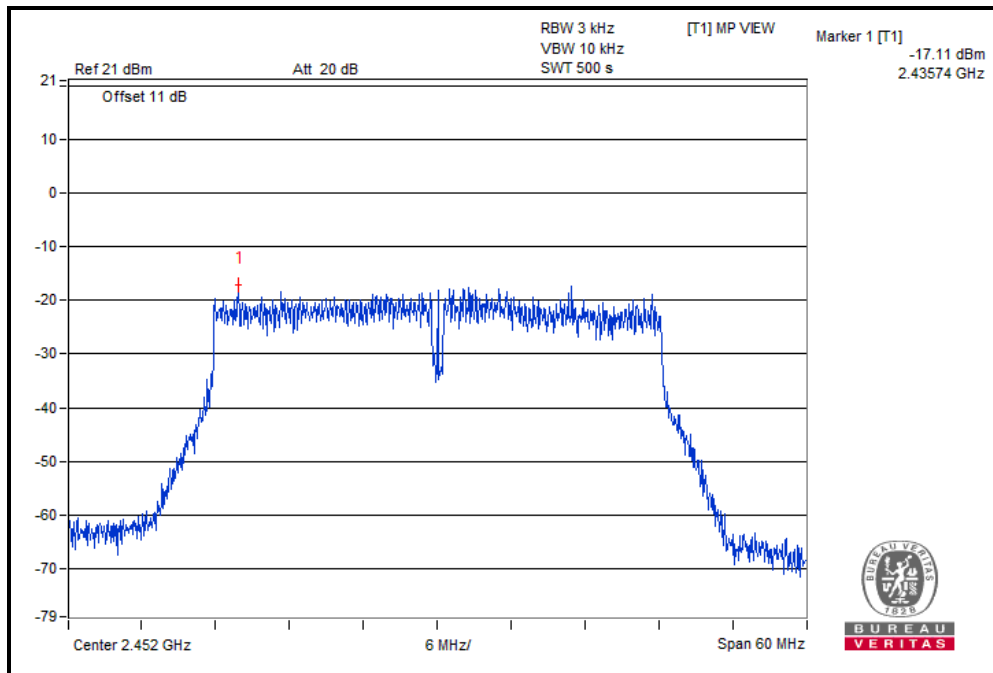


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11n (40MHz)

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-17.87	-17.62	8	PASS
6	2437	-17.77	-18.37	8	PASS
9	2452	-17.42	-17.11	8	PASS



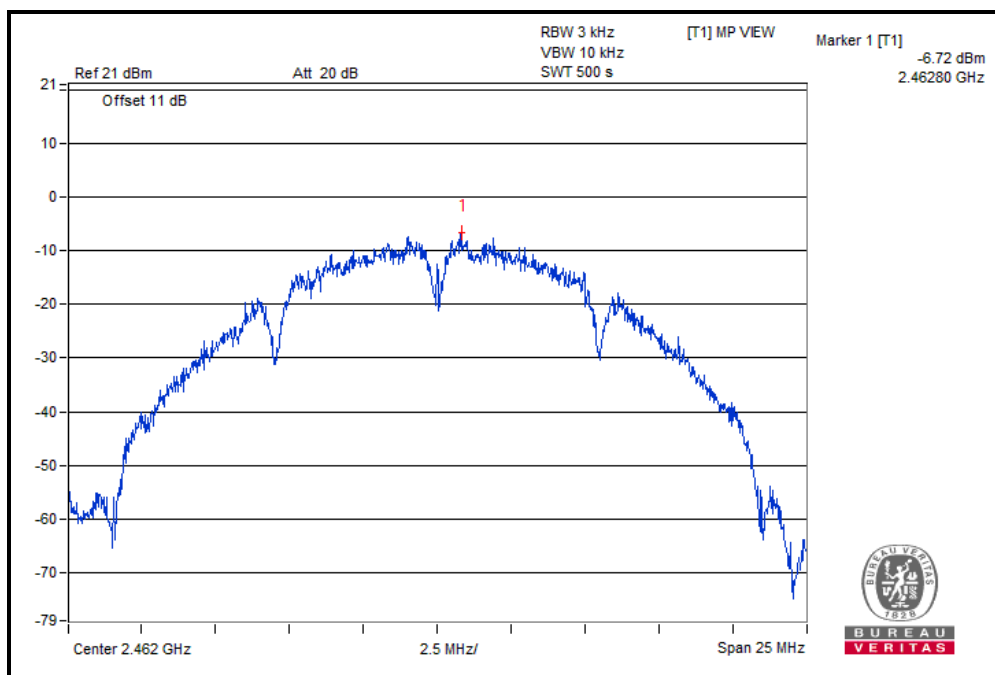


**BUREAU VERITAS** Test Report No.: RF200304W004-2

**MIMO MODE:**

**802.11b**

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-7.44	-6.90	-4.15	8	PASS
6	2437	-6.86	-7.97	-4.37	8	PASS
11	2462	-7.71	-6.72	-4.18	8	PASS



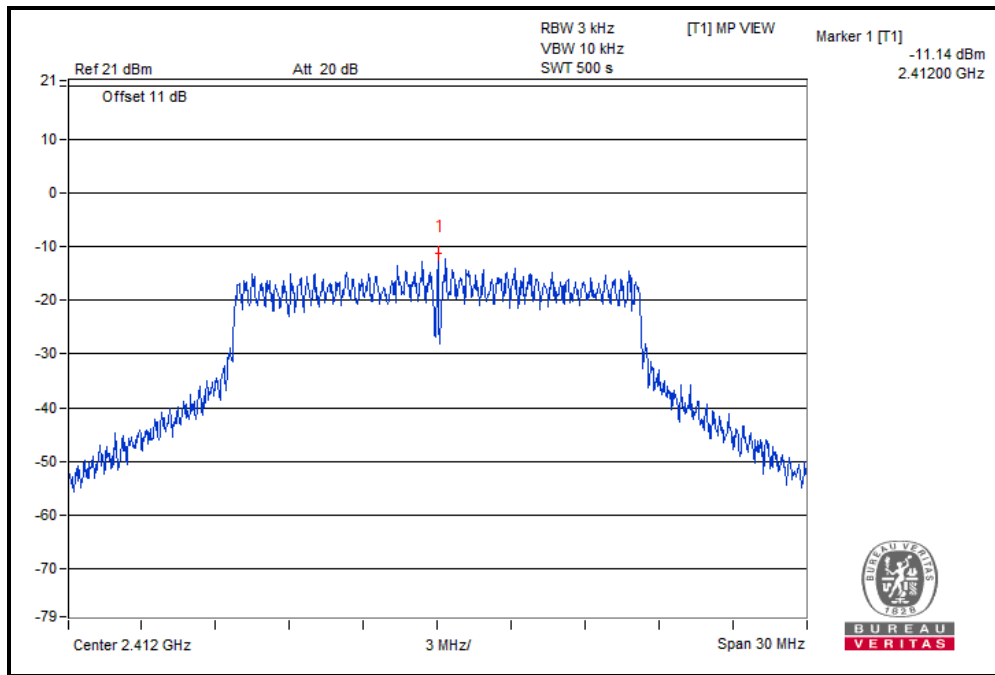


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11g

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-12.64	-11.14	-8.82	8	PASS
6	2437	-12.11	-12.82	-9.44	8	PASS
11	2462	-13.84	-12.22	-9.94	8	PASS



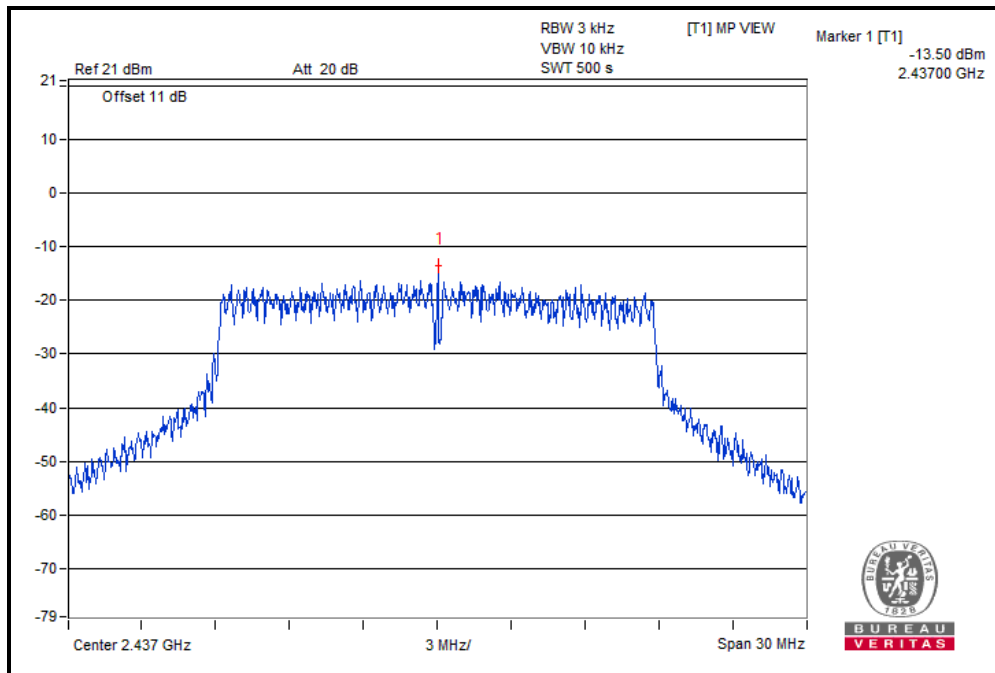


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11n (20MHz)

Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-15.96	-13.92	-11.81	8	PASS
6	2437	-13.85	-13.50	-10.66	8	PASS
11	2462	-15.67	-14.83	-12.22	8	PASS



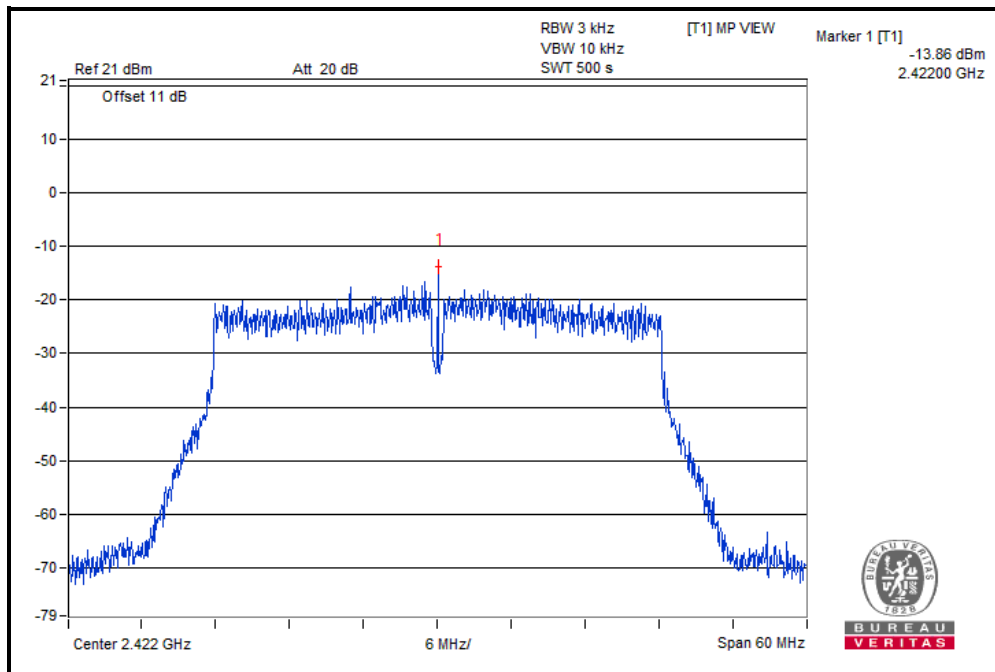


**BUREAU  
VERITAS**

Test Report No.: RF200304W004-2

802.11n (40MHz)

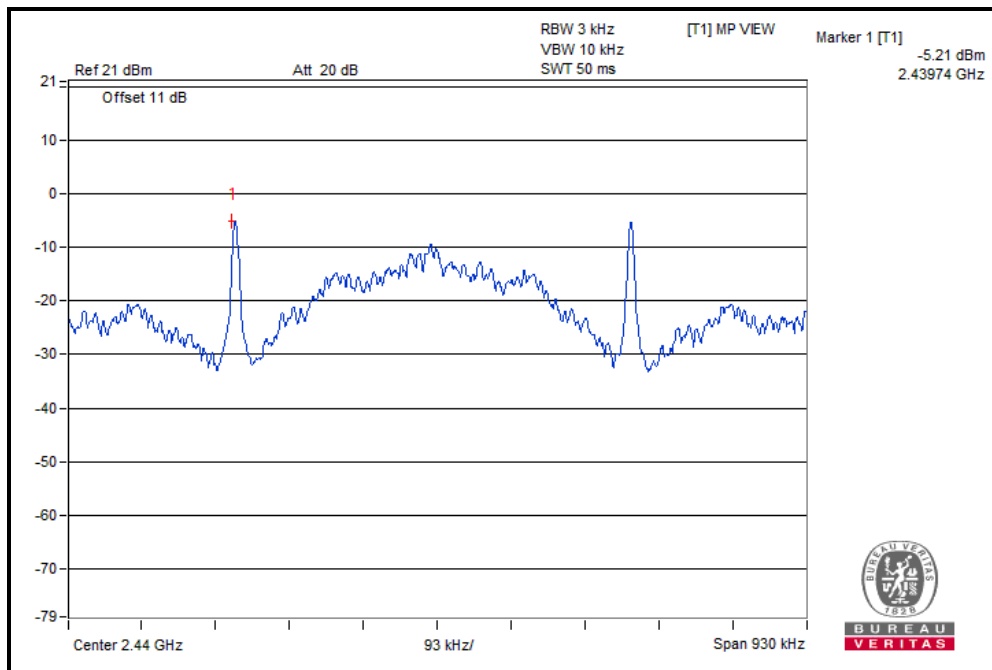
Channel	FREQ. (MHz)	ANT0 PSD (dBm/3kHz)	ANT1 PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-17.91	-13.86	-12.42	8	PASS
6	2437	-17.16	-15.02	-12.95	8	PASS
9	2452	-17.81	-14.99	-13.16	8	PASS





**BT-LE (S8)**

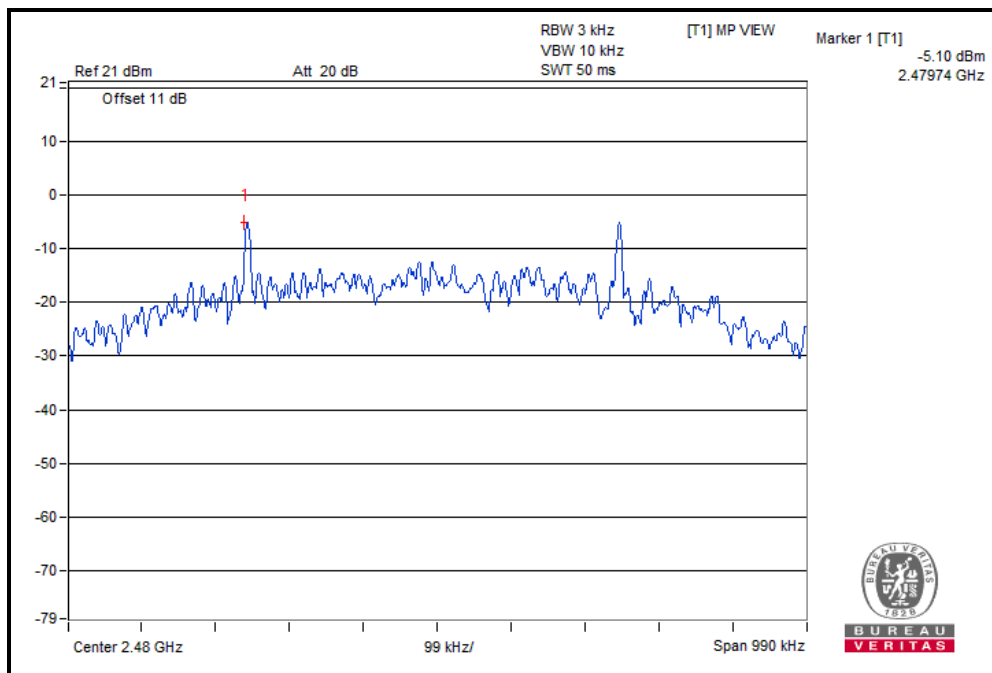
Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-5.65	8	PASS
19	2440	-5.21	8	PASS
39	2480	-5.24	8	PASS





**BT-LE (S2)**

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-5.59	8	PASS
19	2440	5.12	8	PASS
39	2480	-5.10	8	PASS

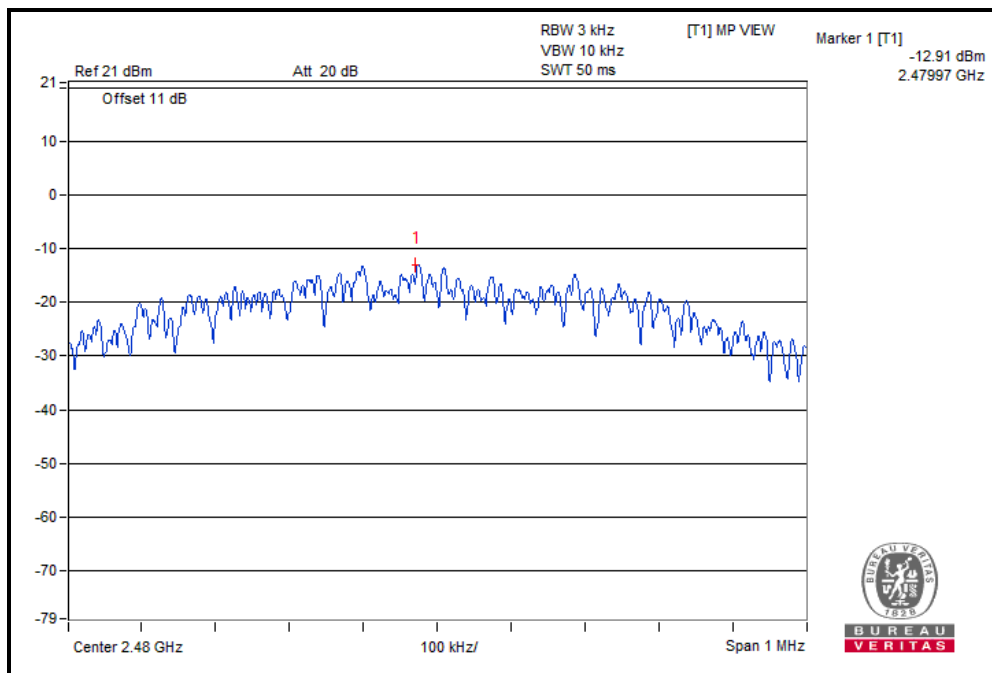






**BT-LE (1M)**

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-13.39	8	PASS
19	2440	-12.94	8	PASS
39	2480	-12.91	8	PASS



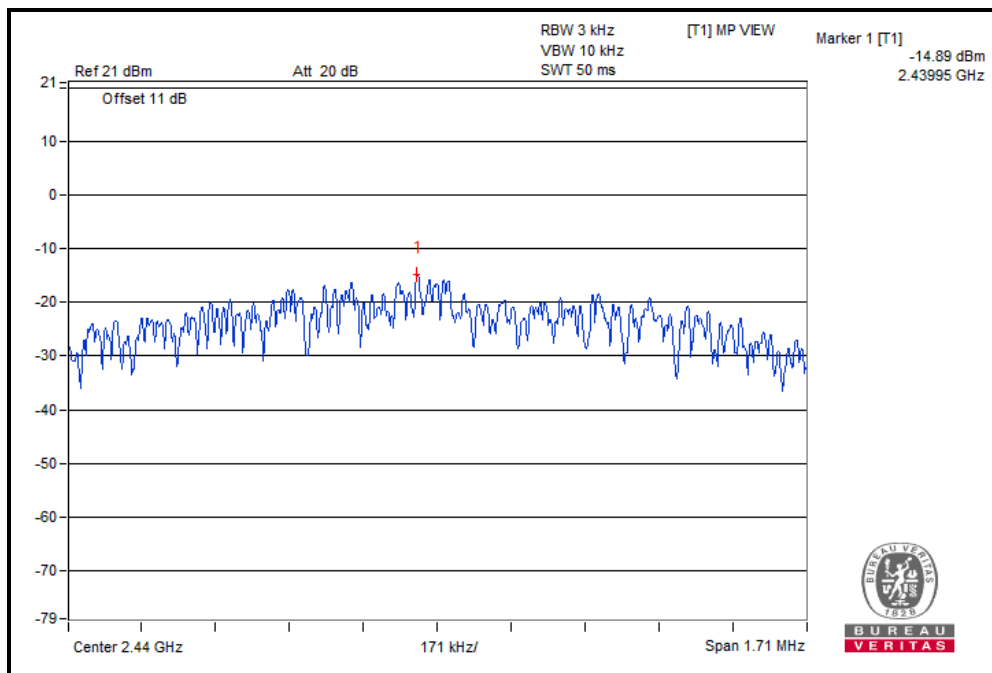


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Test Report No.: RF200304W004-2

**BT-LE (2M)**

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-15.47	8	PASS
19	2440	-14.89	8	PASS
39	2480	-14.91	8	PASS



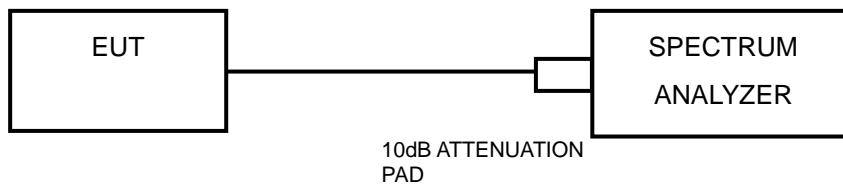


### 3.6 OUT OF BAND EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

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

#### 3.6.2 TEST SETUP



#### 3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.6.4 TEST PROCEDURE

##### MEASUREMENT PROCEDURE REF

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 OOB

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.

### 3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

### 3.6.6 EUT OPERATING CONDITION

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

### 3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

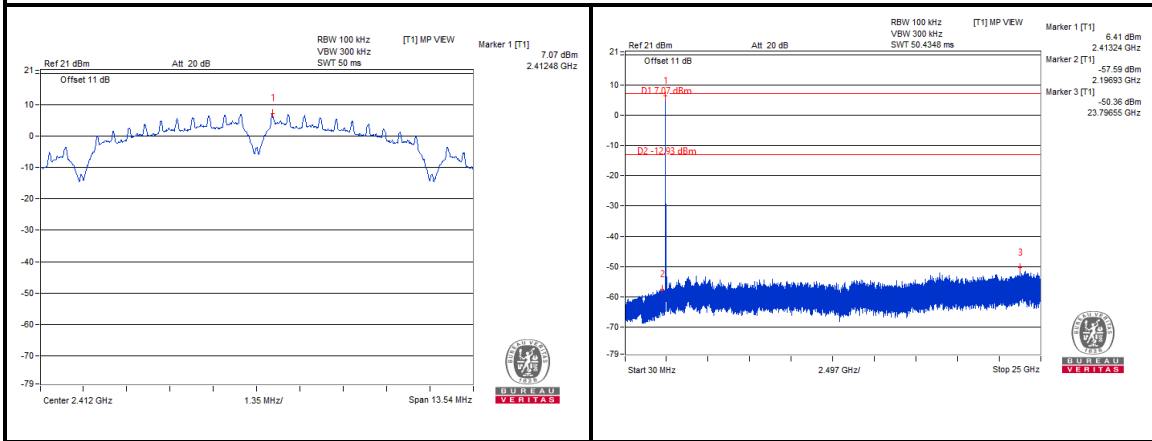


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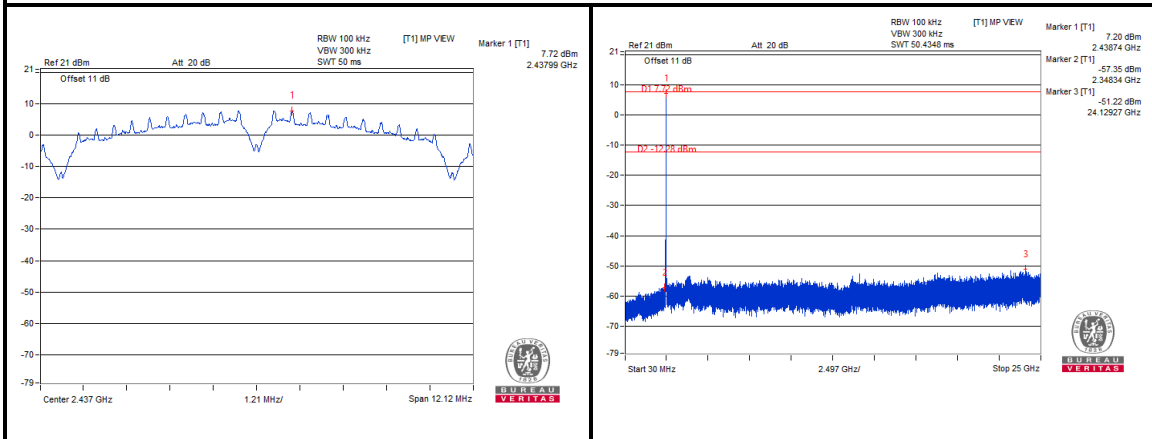
Test Report No.: RF200304W004-2

### 802.11b

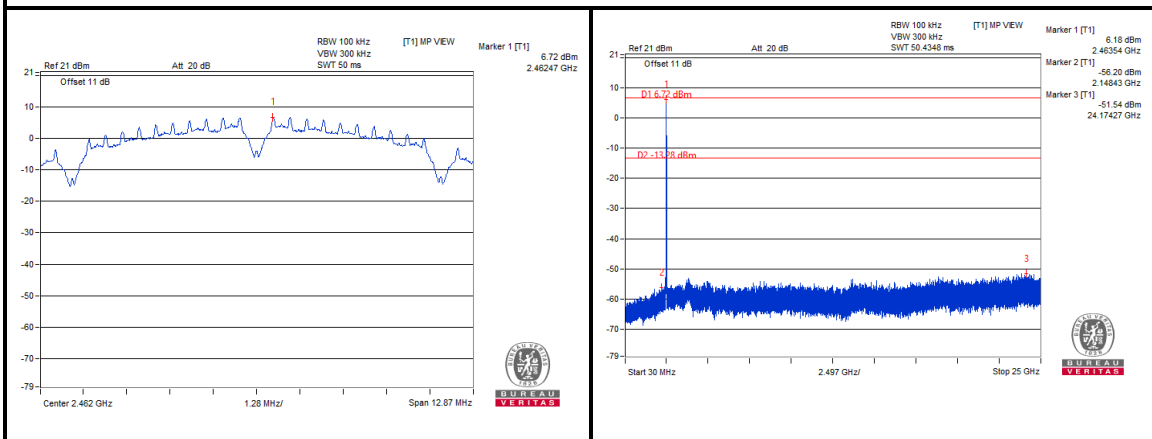
#### CH 1



#### CH 6



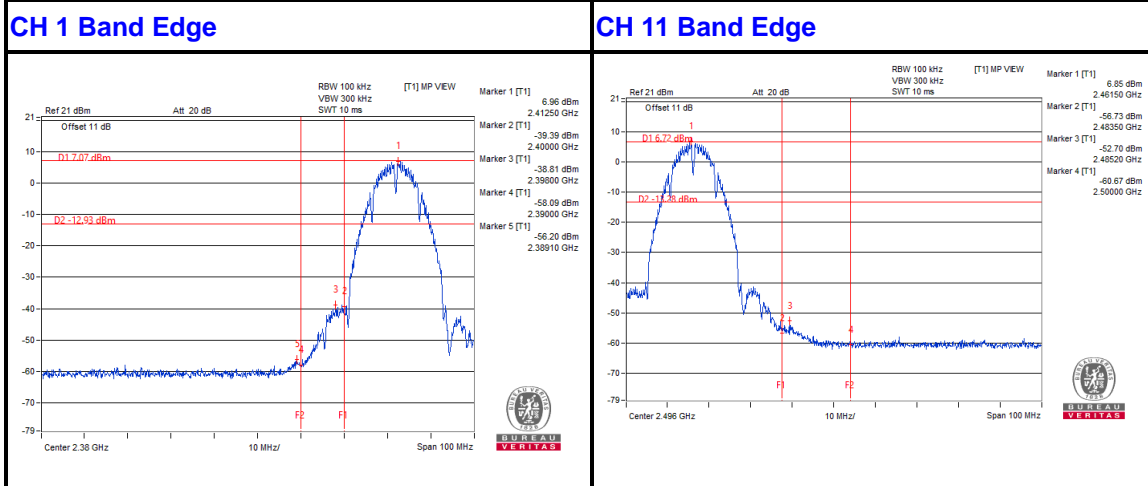
#### CH 11





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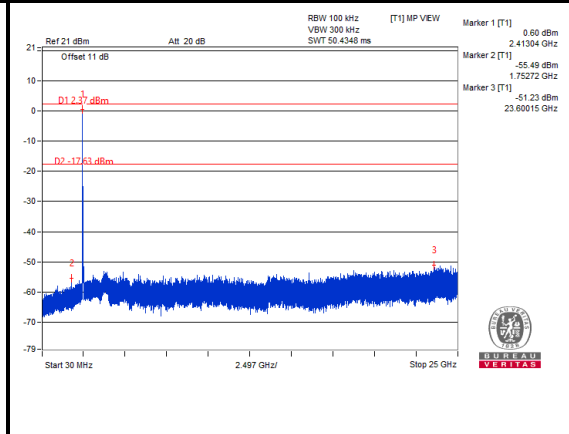
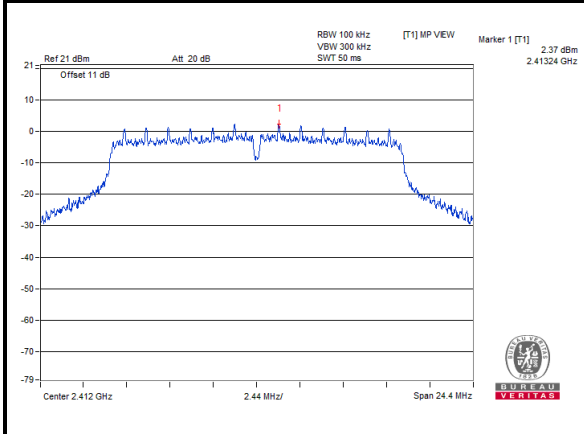


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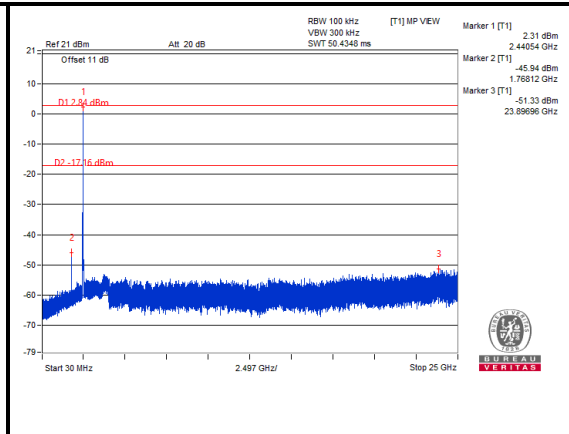
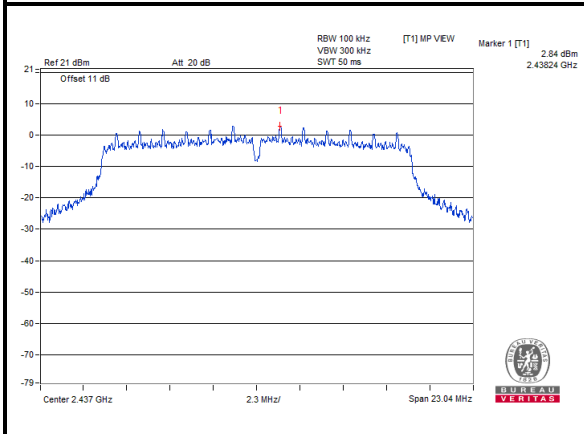
Test Report No.: RF200304W004-2

### 802.11g

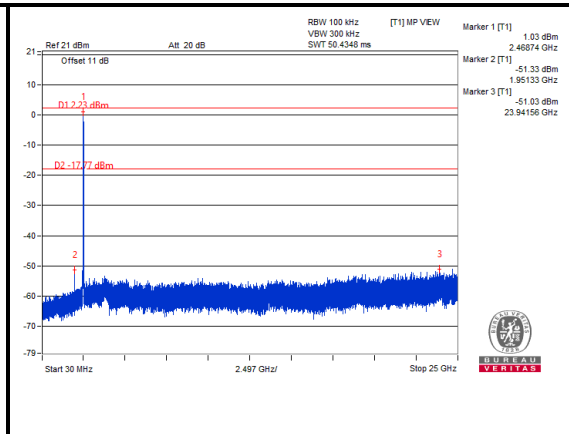
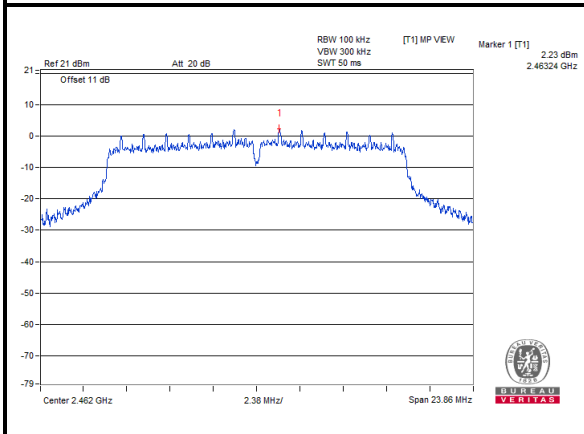
#### CH 1



#### CH 6



#### CH 11

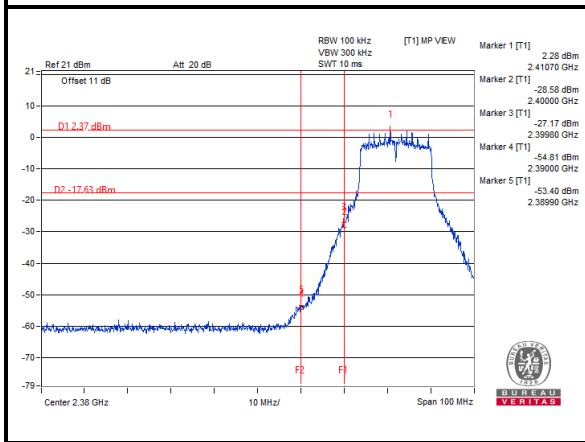




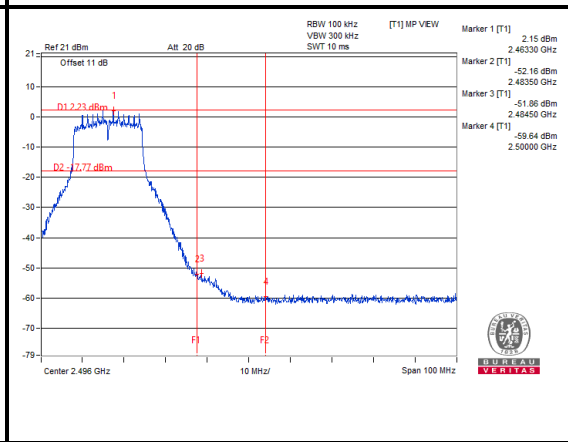
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Test Report No.: RF200304W004-2

### CH 1 Band Edge



### CH 11 Band Edge





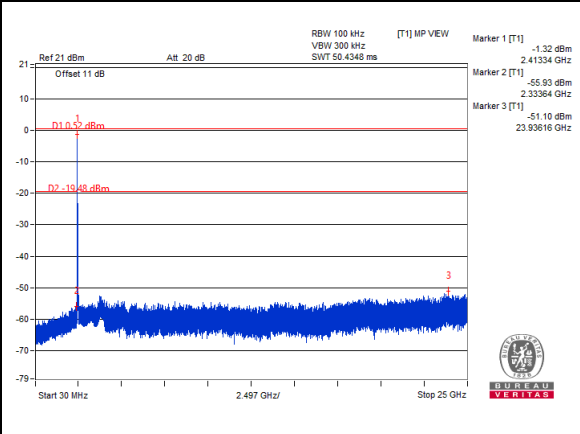
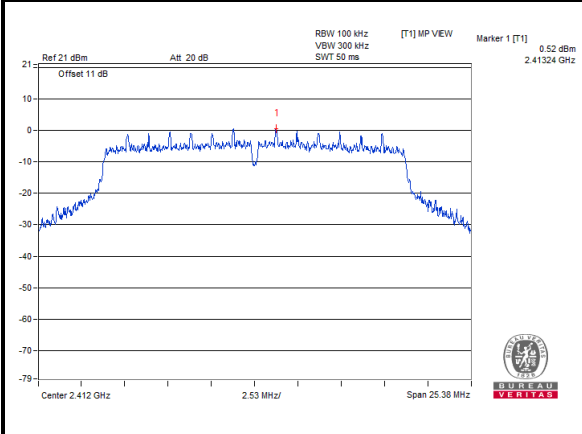


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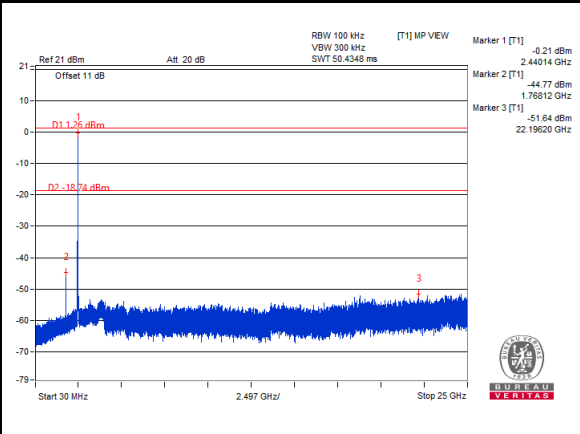
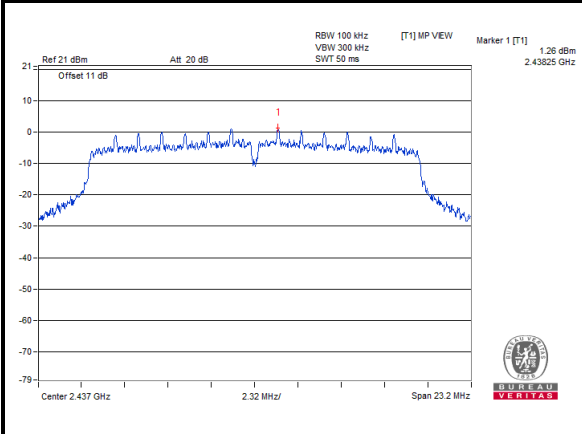
Test Report No.: RF200304W004-2

### 802.11n (20MHz)

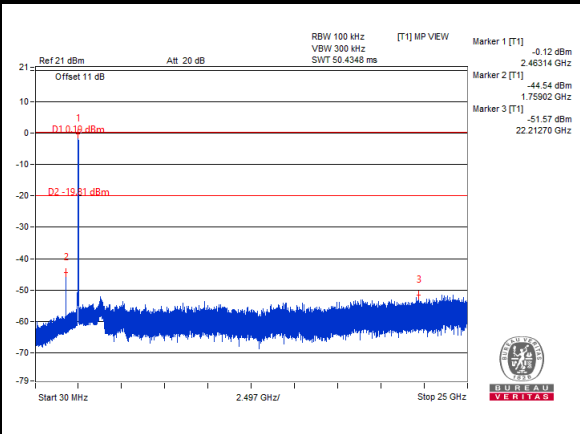
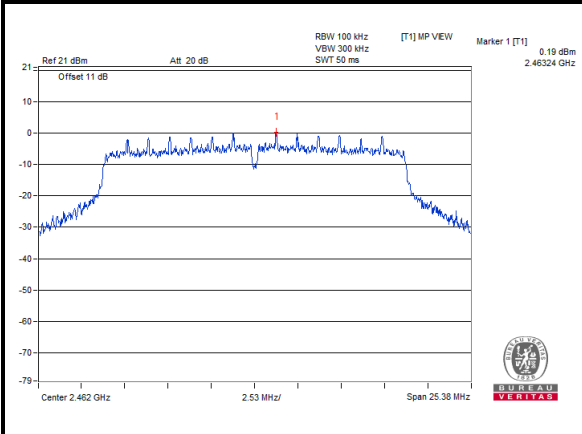
#### CH 1



#### CH 6



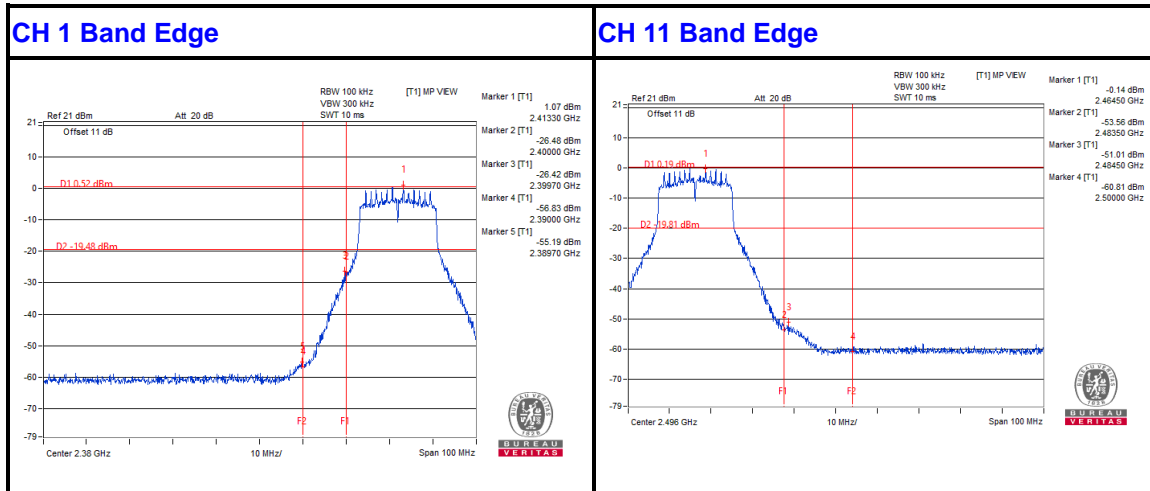
#### CH 11





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Test Report No.: RF200304W004-2



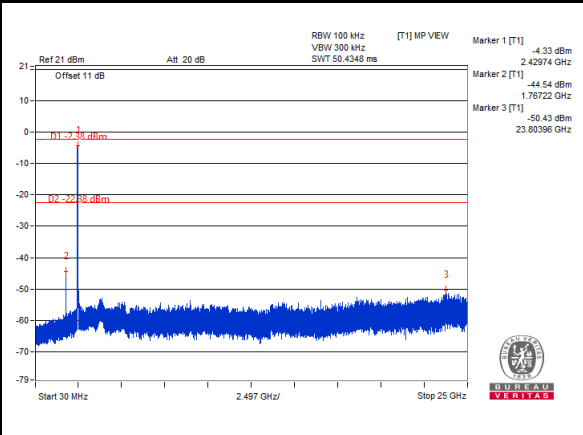
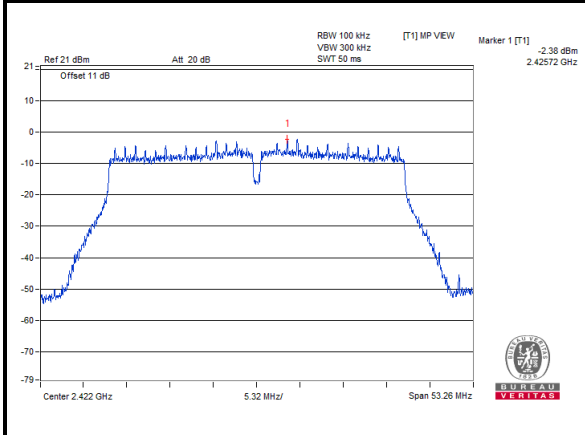


BUREAU VERITAS

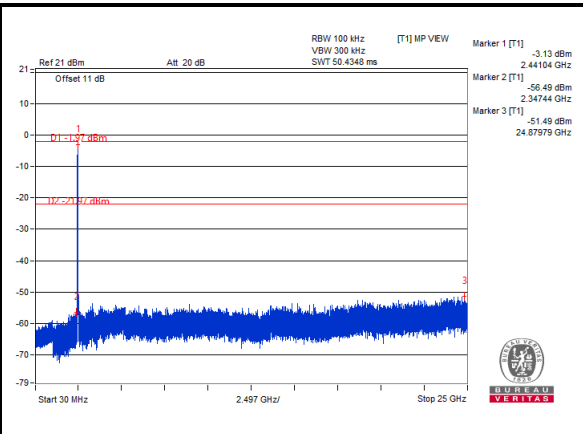
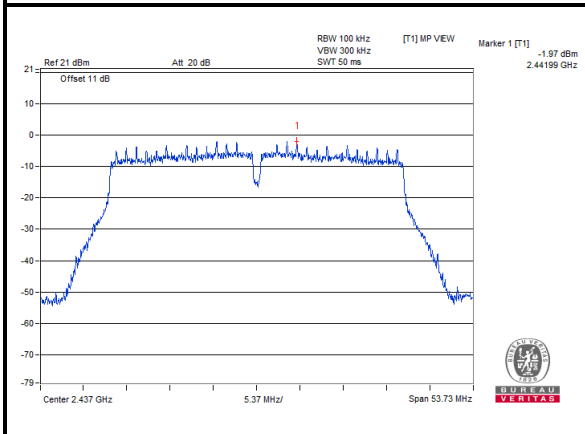
Test Report No.: RF200304W004-2

### 802.11n (40MHz)

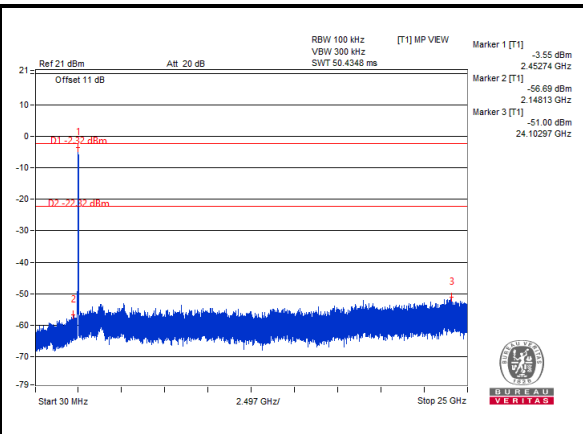
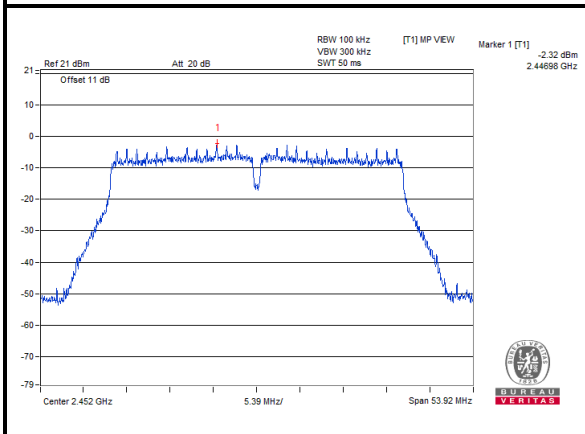
#### CH 3



#### CH 6



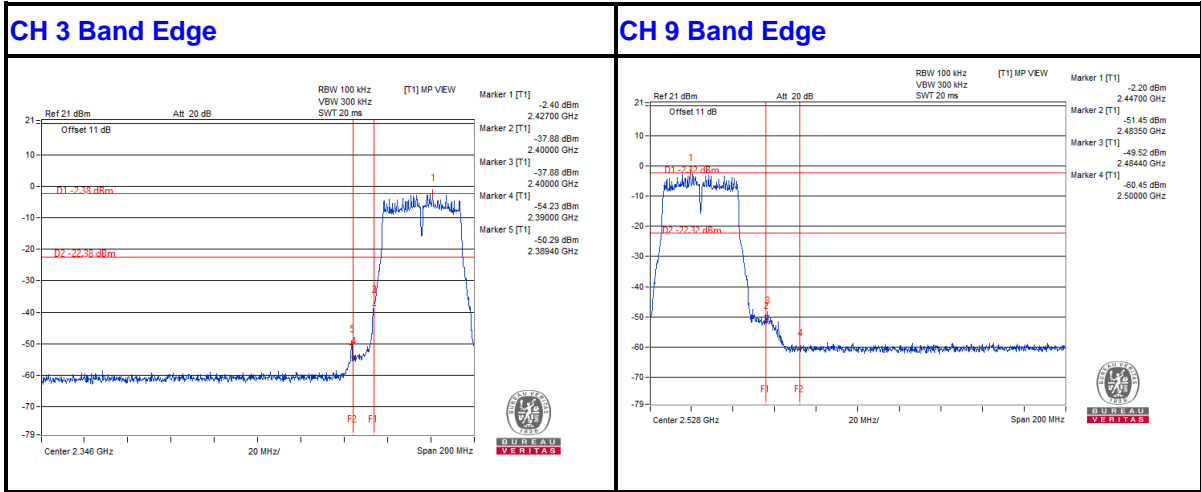
#### CH 9





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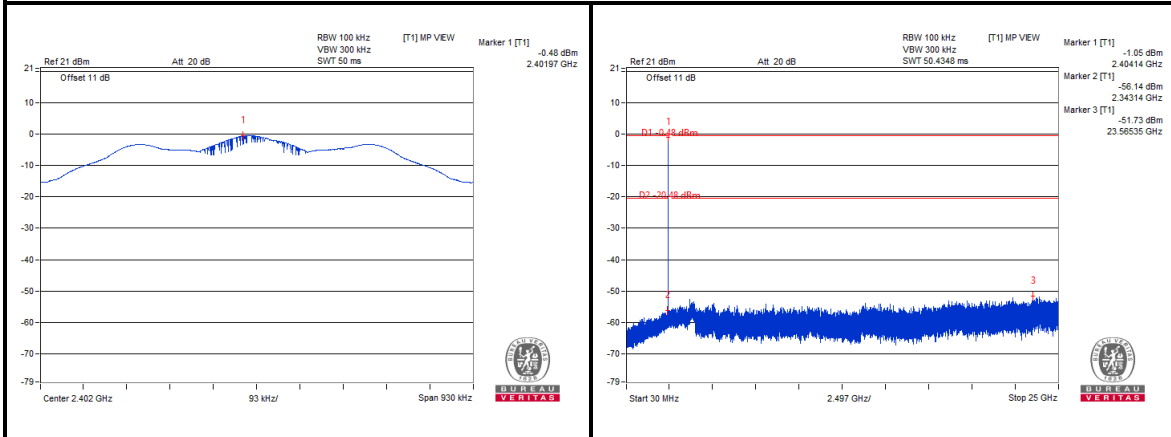


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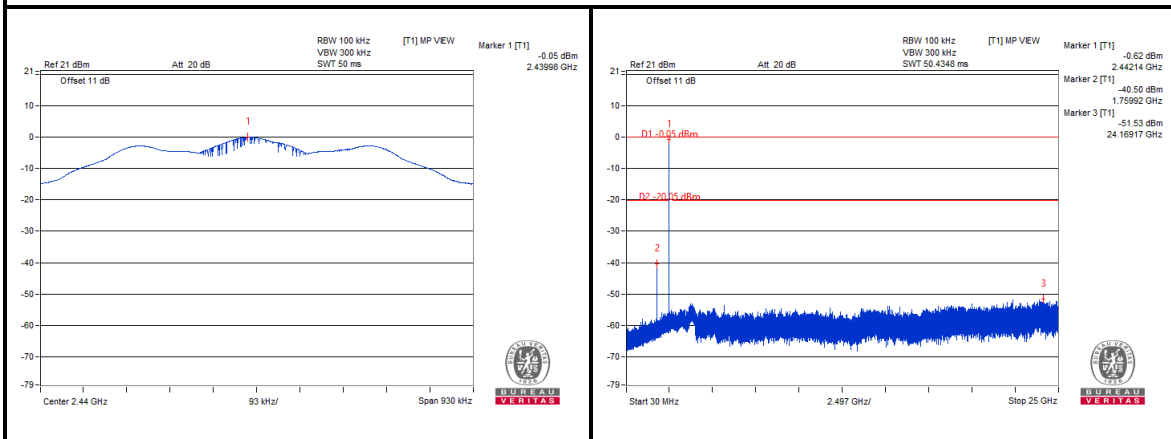
Test Report No.: RF200304W004-2

### BT-LE (S8)

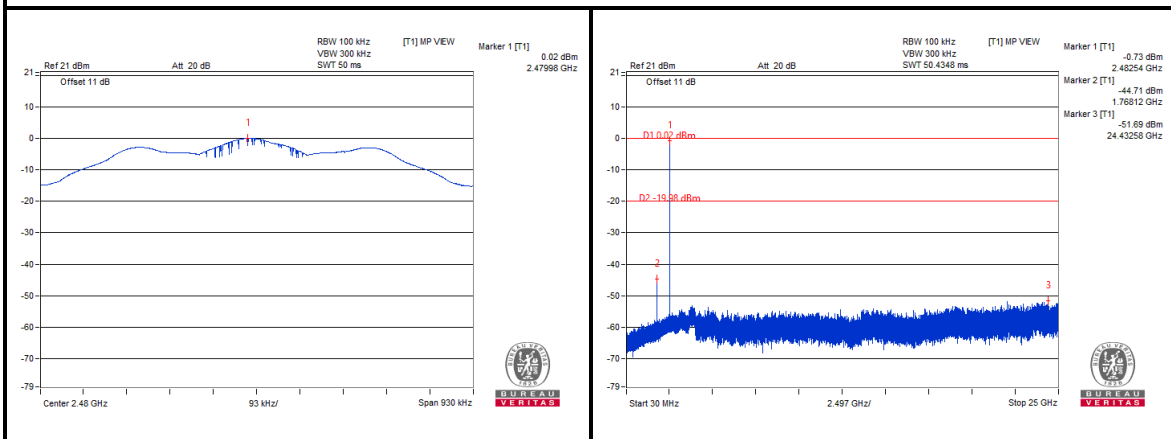
#### CH 0



#### CH 19



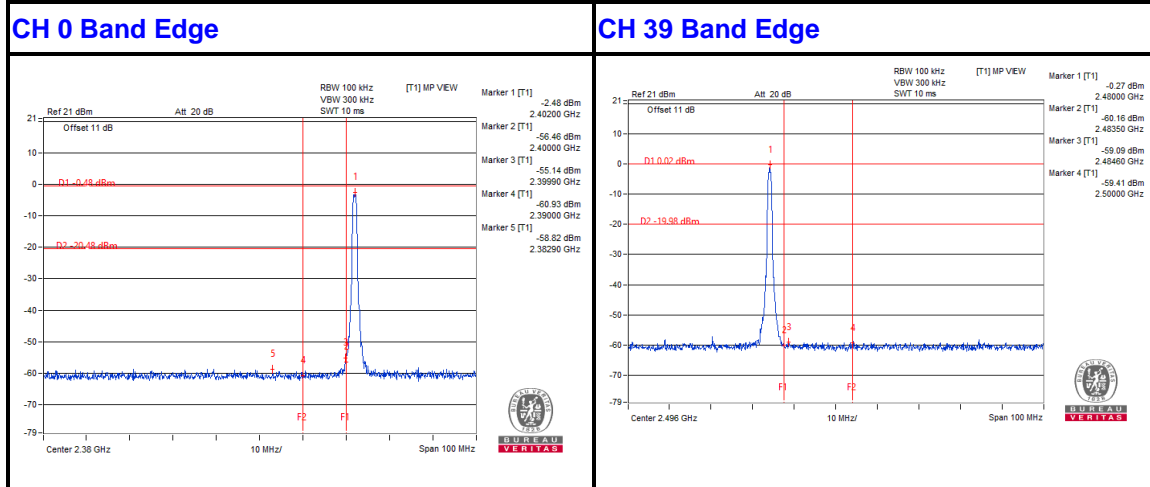
#### CH 39





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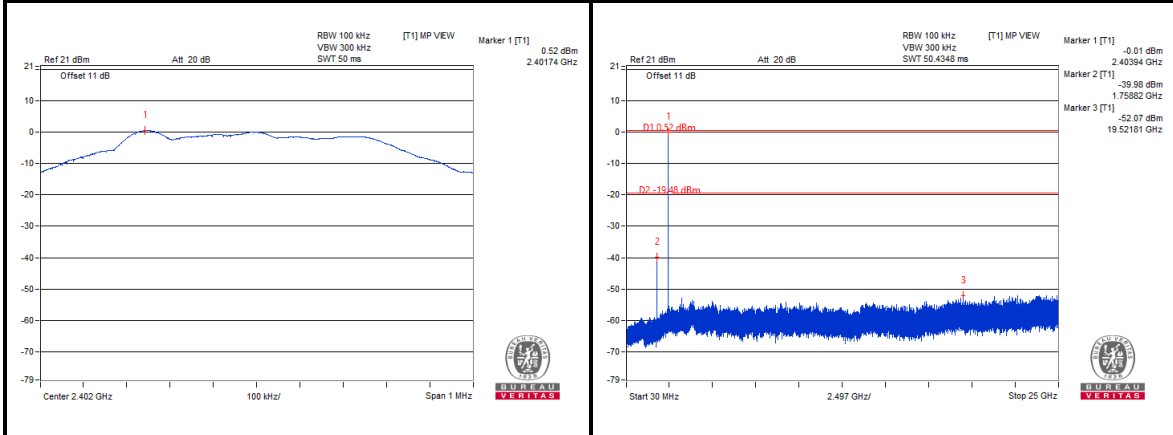


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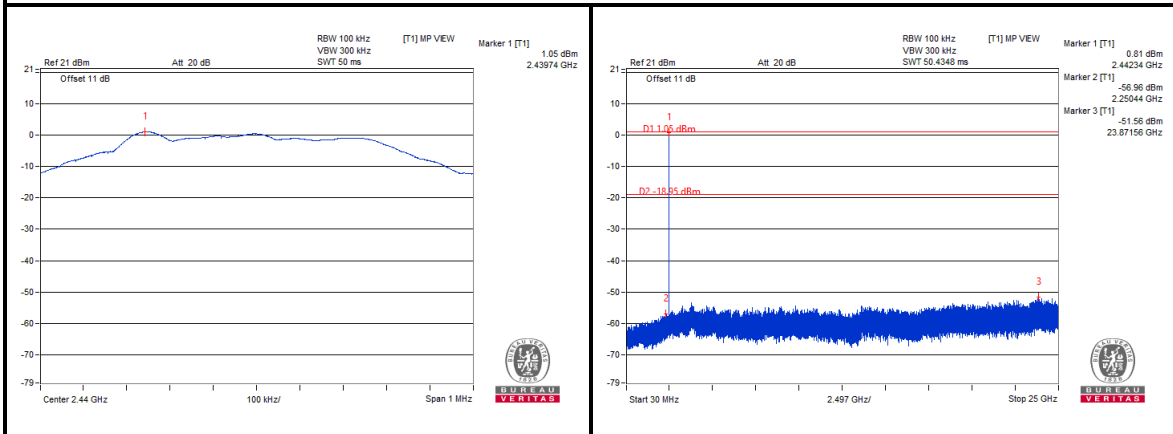
Test Report No.: RF200304W004-2

### BT-LE (S2)

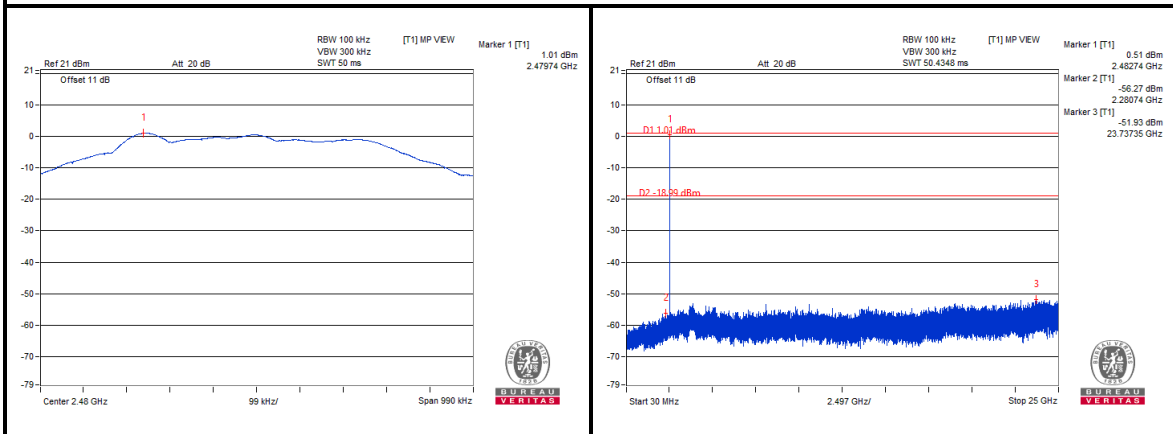
#### CH 0



#### CH 19



#### CH 39

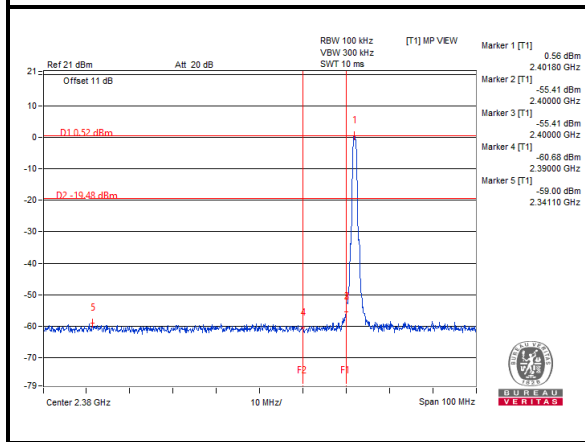




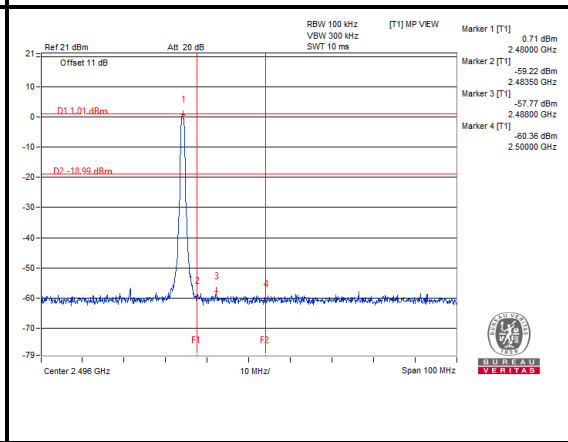
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Test Report No.: RF200304W004-2

### CH 0 Band Edge



### CH 39 Band Edge



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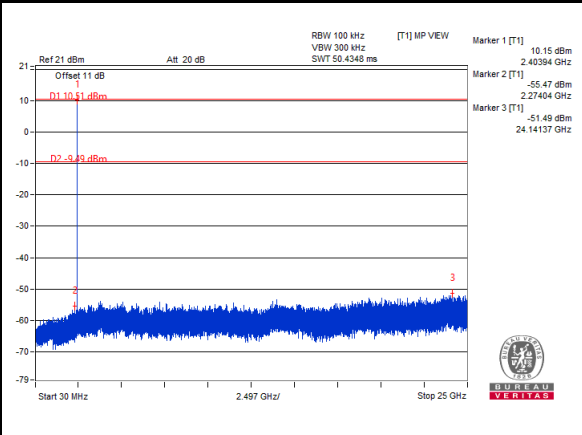
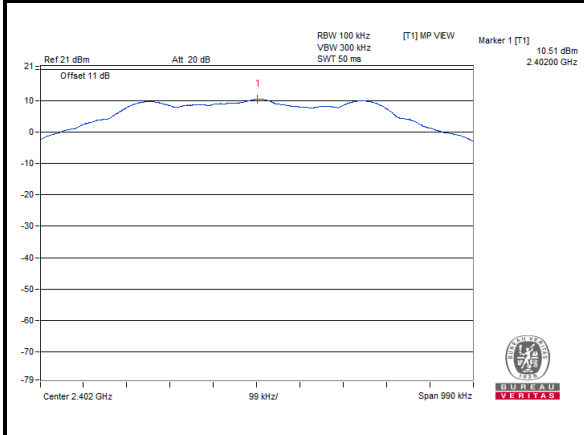


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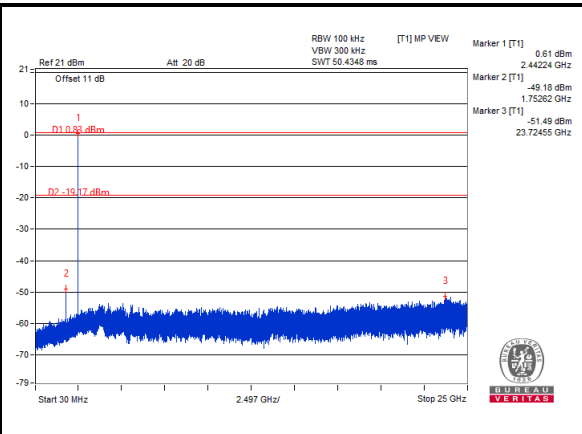
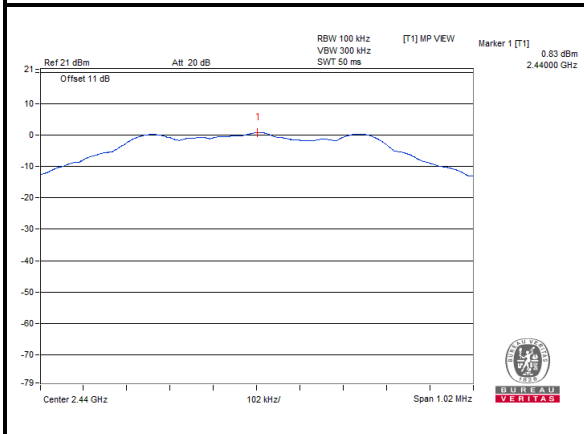
Test Report No.: RF200304W004-2

### BT-LE (1M)

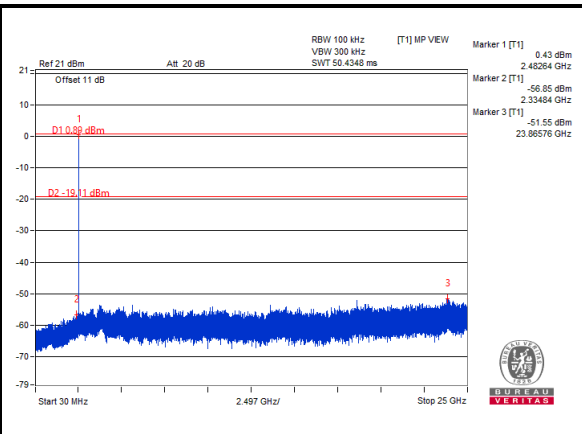
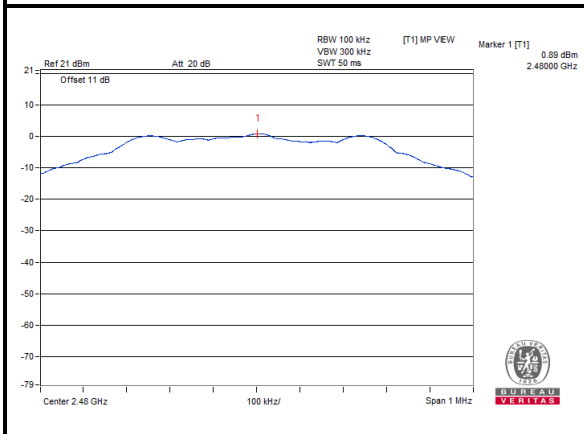
#### CH 0



#### CH 19



#### CH 39

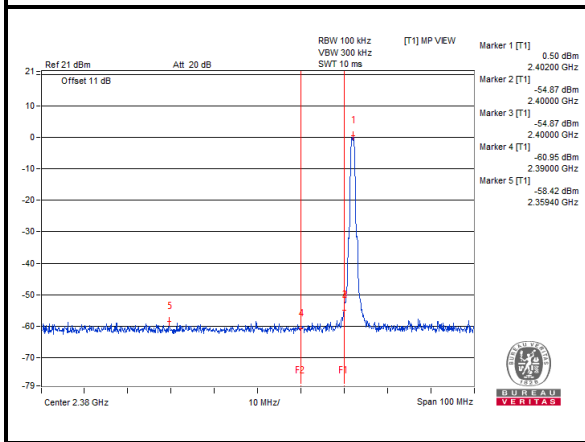




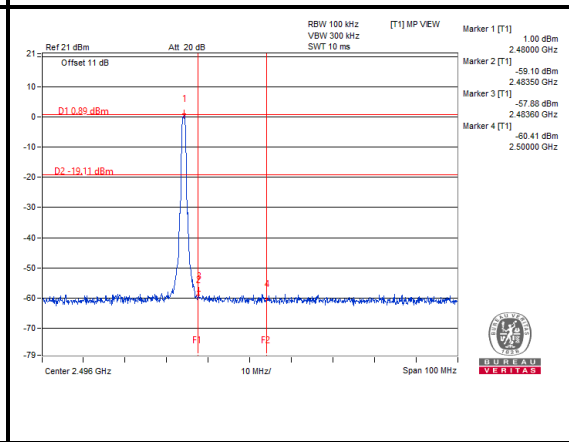
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### CH 0 Band Edge



### CH 39 Band Edge



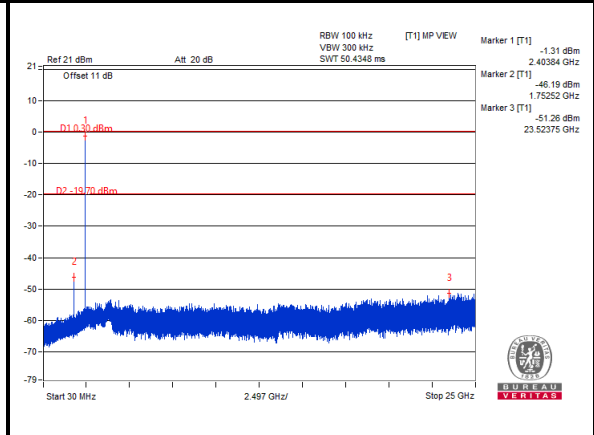
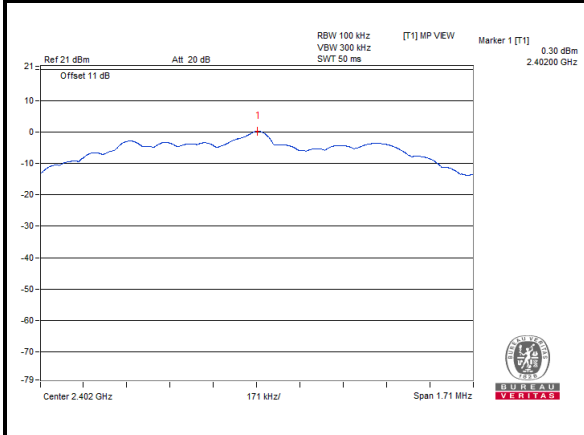


BUREAU VERITAS

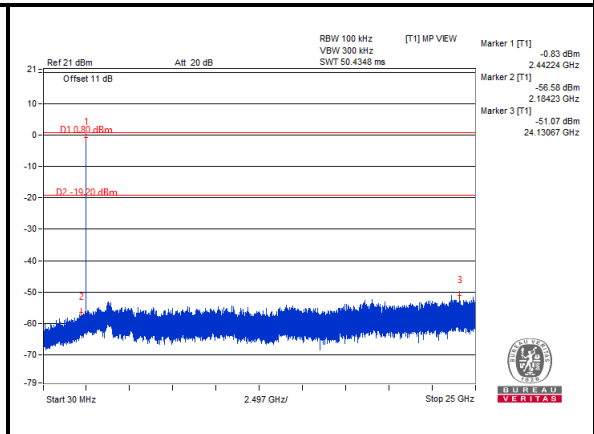
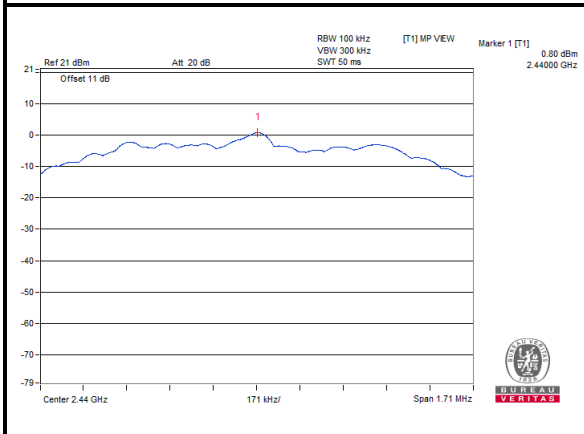
Test Report No.: RF200304W004-2

### BT-LE (2M)

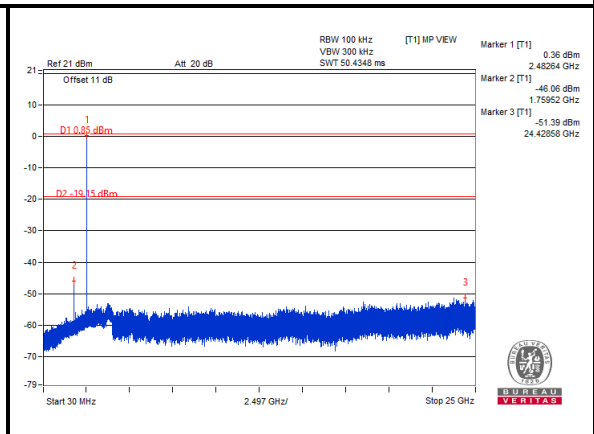
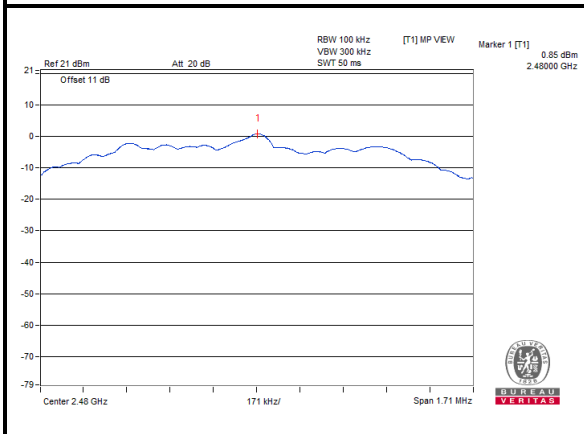
#### CH 0



#### CH 19



#### CH 39

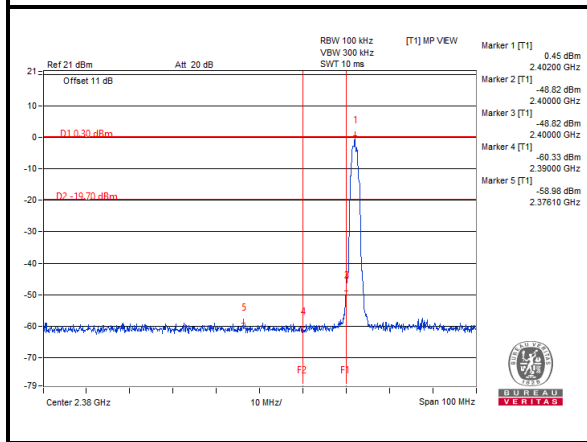




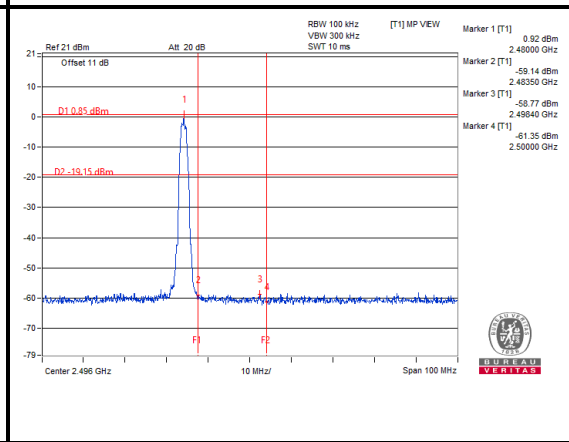
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Test Report No.: RF200304W004-2

### CH 0 Band Edge



### CH 39 Band Edge





## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



## 5 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---**