



# **FCC Radio Test Report**

FCC ID: V7TW311MI3

This report concerns (	(check one):	<b>⊠Original Grant</b>	Class ∣	l Change	<b>∐Class II</b>	Change

**Project No.** : 1711C248

**Equipment**: Auto-Install Wireless Nano USB Adapter

Test Model : W311MI Series Model : N/A

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan
Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt: Nov. 29, 2017

**Date of Test** : Nov. 29, 2017 ~ Dec. 20, 2017

Issued Date : Dec. 21, 2017 Tested by : BTL Inc.

Testing Engineer : Welly

(Wally Zhou)

Technical Manager : Shawn Xiao

(Shawn Xiao)

Authorized Signatory : Yavid Mao

(David Mao)

## BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



Report No.: BTL-FCCP-1-1711C248 Page 1 of 138





#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

**BTL**'s report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Report No.: BTL-FCCP-1-1711C248 Page 2 of 138





Table of Contents	Page
1 . CERTIFICATION	6
	_
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	10
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TES	STED 13
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS 4.1.6 EUT TEST CONDITIONS	15 15
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP 4.2.5 EUT OPERATING CONDITIONS	18 19
4.2.6 EUT TEST CONDITIONS	19
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	19
4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)	19
4.2.9 TEST RESULTS (ABOVE 1000MHZ)	19
5 . BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES	20
5.1.1 TEST PROCEDURE	20
5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP	20 20
5.1.4 EUT OPERATION CONDITIONS	20
5.1.5 EUT TEST CONDITIONS	20
5.1.6 TEST RESULTS	20
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	21

Report No.: BTL-FCCP-1-1711C248





Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT 6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD 6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS 6.1.5 EUT TEST CONDITIONS 6.1.6 TEST RESULTS	21 21 21 21 21 21 21
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	22
7.1 APPLIED PROCEDURES / LIMIT 7.1.1 TEST PROCEDURE 7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP 7.1.4 EUT OPERATION CONDITIONS 7.1.5 EUT TEST CONDITIONS 7.1.6 TEST RESULTS	22 22 22 22 22 22 22 22
8 . POWER SPECTRAL DENSITY TEST	23
8.1 APPLIED PROCEDURES / LIMIT 8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD 8.1.3 TEST SETUP 8.1.4 EUT OPERATION CONDITIONS 8.1.5 EUT TEST CONDITIONS 8.1.6 TEST RESULTS	23 23 23 23 23 23 23
9. MEASUREMENT INSTRUMENTS LIST	24
10 . EUT TEST PHOTO	26
APPENDIX A - CONDUCTED EMISSION	30
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)	33
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)	38
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)	45
APPENDIX E - BANDWIDTH	94
APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER	103
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION	105
APPENDIX H - POWER SPECTRAL DENSITY	130

Report No.: BTL-FCCP-1-1711C248 Page 4 of 138





## **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1711C248	Original Issue.	Dec. 21, 2017

Report No.: BTL-FCCP-1-1711C248 Page 5 of 138





#### 1. CERTIFICATION

Equipment : Auto-Install Wireless Nano USB Adapter

Brand Name : Tenda Test Model : W311MI Series Model : N/A

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD

Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,

Shenzhen, China. 518052

Date of Test : Nov. 29, 2017 ~ Dec. 20, 2017

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1711C248) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: BTL-FCCP-1-1711C248 Page 6 of 138





## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C					
Standard(s) Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS			

## NOTE:

(1)" N/A" denotes test is not applicable in this test report.

Report No.: BTL-FCCP-1-1711C248 Page 7 of 138





#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385 BTL's test firm number for IC: 4428B-1

#### 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cispr}$  requirement.

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Ι	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Ι	3.78
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

Report No.: BTL-FCCP-1-1711C248 Page 8 of 138





## 3. GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Auto-Install Wireless Nano USB Adapter					
Brand Name	Tenda	Tenda				
Test Model	W311MI					
Series Model	N/A					
Model Difference	N/A					
	Operation Frequency	2412~2462 MHz				
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM				
	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 M 802.11n up to 150 Mbps					
	Output Power (Max.)  802.11b: 12.79dBm 802.11g: 19.68dBm 802.11n(20MHz): 19.25dBm 802.11n(40MHz): 19.42dBm					
Power Source	Supplied from host system.					
Power Rating	DC 5V					

#### Note:

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

#### 2. Channel List:

	CH01 - CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 - CH09 for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

#### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Tenda	N/A	Internal	N/A	1	N/A

Report No.: BTL-FCCP-1-1711C248 Page 9 of 138





#### 3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	Normal Link

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test				
Final Test Mode	Description			
Mode 5	Normal Link			

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

For Band Edge Test			
Final Test Mode	Description		
Mode 1	TX B MODE CHANNEL 01/06/11		
Mode 2	TX G MODE CHANNEL 01/06/11		
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11		
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09		

Report No.: BTL-FCCP-1-1711C248 Page 10 of 138





6dB Spectrum Bandwidth		
Final Test Mode Description		
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Maximum Conducted Output Power		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Power Spectral Density		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

#### Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (13.5Mbps)

For radiated emission tests, the highest output powers were set for final test.

- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Report No.: BTL-FCCP-1-1711C248 Page 11 of 138





## 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	MPTool		
Frequency (MHz)	2412	2437	2462
802.11b	23	23	23
802.11g	32	32	32
802.11n (20MHz)	33	33	33
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	33	33	33

Report No.: BTL-FCCP-1-1711C248 Page 12 of 138





## 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

EUT	Notebook (A)	

## 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
Α	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Report No.: BTL-FCCP-1-1711C248 Page 13 of 138





#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average□	
0.15 -0.50	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

#### Note:

(1) The limit of " \* " decreases with the logarithm of the frequency

(2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

#### **4.1.2 TEST PROCEDURE**

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

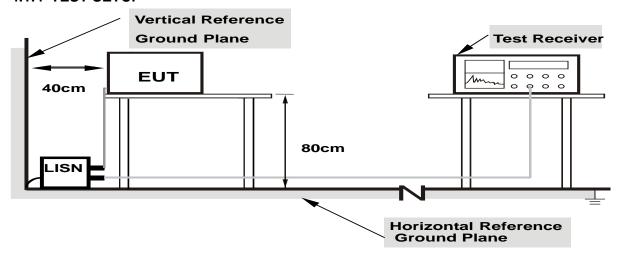
No deviation

Report No.: BTL-FCCP-1-1711C248 Page 14 of 138





## 4.1.4 TEST SETUP



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

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

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

#### **4.1.6 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

## 4.1.7 TEST RESULTS

Please refer to the Appendix A.

Report No.: BTL-FCCP-1-1711C248





#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

## LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
	PEAK	AVERAGE	
Above 1000	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Report No.: BTL-FCCP-1-1711C248





Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### **4.2.2 TEST PROCEDURE**

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

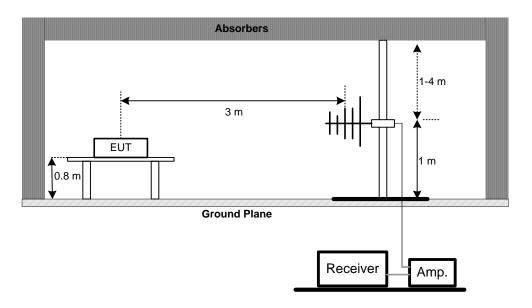
Report No.: BTL-FCCP-1-1711C248 Page 17 of 138



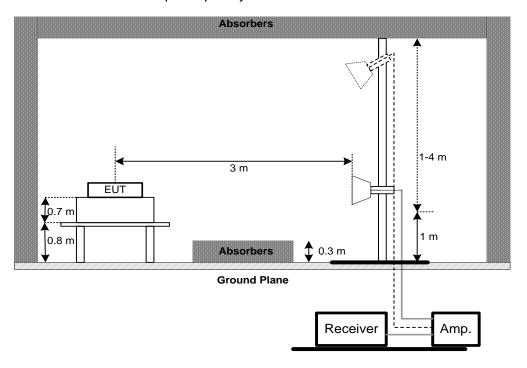


## 4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

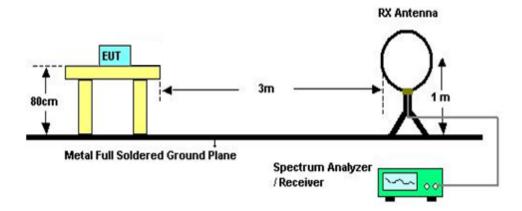


Report No.: BTL-FCCP-1-1711C248 Page 18 of 138





## (C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

#### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B

#### Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

## **4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)**

Please refer to the Appendix C.

#### 4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

#### Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Report No.: BTL-FCCP-1-1711C248 Page 19 of 138





## 5. BANDWIDTH TEST

#### **5.1 APPLIED PROCEDURES**

FCC Part15 (15.247) , Subpart C					
Section Test Item Frequency Range (MHz) Result					
15.247(a)(2) Bandwidth 2400-2483.5 PASS					

#### **5.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

#### **5.1.2 DEVIATION FROM STANDARD**

No deviation.

#### **5.1.3 TEST SETUP**

EUT	SPECTRUM	
	ANALYZER	

#### **5.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

## **5.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

#### **5.1.6 TEST RESULTS**

Please refer to the Appendix E.

Report No.: BTL-FCCP-1-1711C248 Page 20 of 138





## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

## **6.1 APPLIED PROCEDURES / LIMIT**

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

#### **6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP

EUT		Power Meter
		1 Ower Meter

#### **6.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### **6.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

Report No.: BTL-FCCP-1-1711C248 Page 21 of 138





#### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.

Report No.: BTL-FCCP-1-1711C248 Page 22 of 138





## 8. POWER SPECTRAL DENSITY TEST

#### 8.1 APPLIED PROCEDURES / LIMIT

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

#### **8.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

#### **8.1.2 DEVIATION FROM STANDARD**

No deviation.

#### 8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

#### **8.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### **8.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

#### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

Report No.: BTL-FCCP-1-1711C248 Page 23 of 138





## 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018		
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Oct. 19, 2018		

	Radiated Emission Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018		
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Antenna	EM	EM-6876-1	230	Mar. 06, 2018		

Report No.: BTL-FCCP-1-1711C248 Page 24 of 138





	Radiated Emission Above 1GHz										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018						
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018						
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018						
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018						
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018						
6	Antenna	EM	EM-6876-1	230	Mar. 06, 2018						
7	Controller	СТ	SC100	N/A	N/A						
8	Controller	MF	MF-7802	MF780208416	N/A						
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018						
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A						

	6dB Bandwidth									
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unti									
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018					

	Peak Output Power										
Item         Kind of Equipment         Manufacturer         Type No.         Serial No.         Ca											
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018						
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018						

	Antenna Conducted Spurious Emission								
Item	tem Kind of Equipment Manufacturer Type No. Serial No. Calibrated u								
1	1 Spectrum Analyzer R&S FSP40 100185 Aug. 20, 201								

	Power Spectral Density								
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unt								
1 Spectrum Analyzer R&S FSP40 100185 Aug. 20, 2018									

Remark: "N/A" denotes no model name, serial no. or calibration specified.

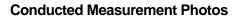
All calibration period of equipment list is one year.

Report No.: BTL-FCCP-1-1711C248 Page 25 of 138





## **10. EUT TEST PHOTO**







Report No.: BTL-FCCP-1-1711C248 Page 26 of 138





## **Radiated Measurement Photos**







Report No.: BTL-FCCP-1-1711C248 Page 27 of 138





## **Radiated Measurement Photos**

30MHz to 1000MHz





Report No.: BTL-FCCP-1-1711C248 Page 28 of 138

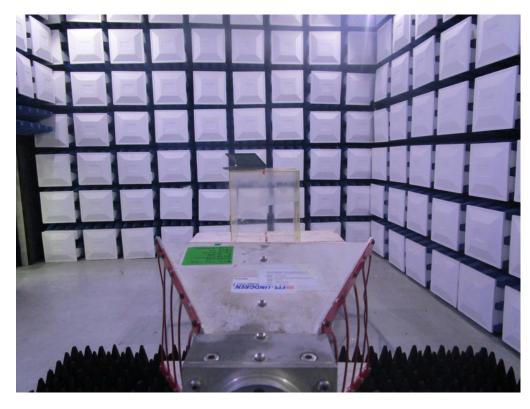




## **Radiated Measurement Photos**

## Above 1000MHz





Report No.: BTL-FCCP-1-1711C248 Page 29 of 138





APPENDIX A - CONDUCTED EMISSION	

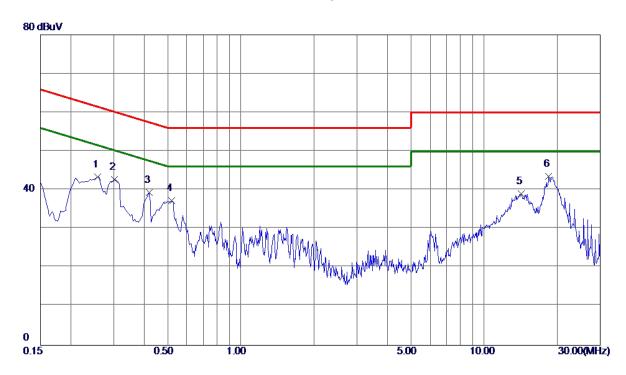
Report No.: BTL-FCCP-1-1711C248 Page 30 of 138





Test Mode : Normal Link

## Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 2580	33.64	9. 76	43. 40	61.50	-18. 10	Peak	
2	0.3030	32. 96	9. 76	42.72	60. 16	-17.44	Peak	
3	0.4200	29.61	9. 79	39. 40	57.45	<b>−18. 05</b>	Peak	
4	0.5190	27. 45	9. 80	37. 25	56.00	-18.75	Peak	
5	14. 1945	28. 53	10. 55	39. 08	60.00	<b>-20.92</b>	Peak	
6 *	18. 4335	32. 96	10.63	43. 59	60.00	-16.41	Peak	

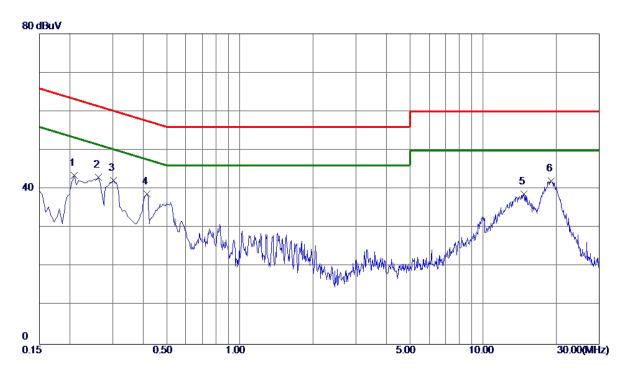
Report No.: BTL-FCCP-1-1711C248 Page 31 of 138





Test Mode : Normal Link

## **Neutral**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 2085	33. 78	9. 69	43. 47	63. 26	-19.79	Peak	
2	0. 2625	33. 32	9. 67	42.99	61.35	-18. 36	Peak	
3	0.3030	32. 50	9. 68	42. 18	60. 16	-17. 98	Peak	
4	0.4155	28. 99	9. 69	38. 68	57.54	-18.86	Peak	
5	14.7030	28. 18	10.61	38. 79	60.00	-21. 21	Peak	
6 *	19. 0995	31. 36	10. 73	42. 09	60.00	-17. 91	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 32 of 138





APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

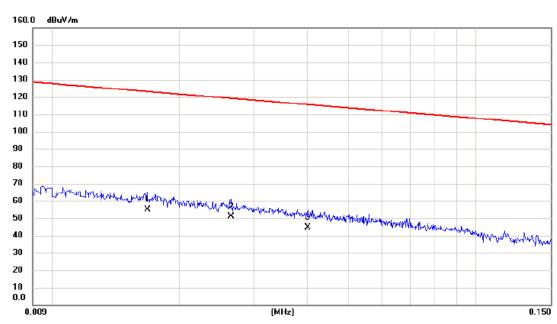
Report No.: BTL-FCCP-1-1711C248 Page 33 of 138





Test Mode: TX MODE

## Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0168	34.87	20.04	54.91	123.10	-68.19	AVG	
2 *	0.0265	31.68	19.43	51.11	119.14	-68.03	AVG	
3	0.0401	25.61	19.02	44.63	115.54	-70.91	AVG	

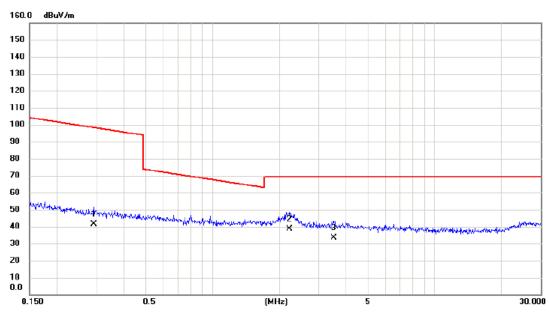
Report No.: BTL-FCCP-1-1711C248 Page 34 of 138





Test Mode: TX MODE

Ant 0°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2924	24.79	16.63	41.42	98.29	-56.87	AVG	
2 *	2.2132	23.35	15.45	38.80	69.54	-30.74	QP	
3	3.5278	18.17	15.08	33.25	69.54	-36.29	QP	

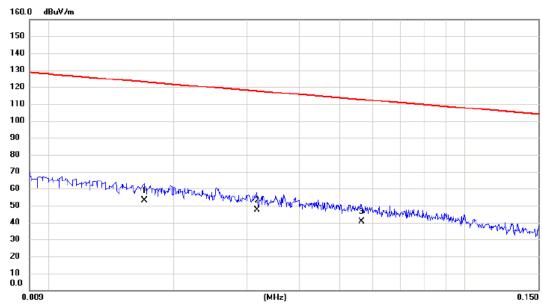
Report No.: BTL-FCCP-1-1711C248 Page 35 of 138





Test Mode: TX MODE

## Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0170	33.18	20.01	53.19	123.00	-69.81	AVG	
2	0.0317	28.33	19.27	47.60	117.58	-69.98	AVG	
3	0.0565	22.05	18.60	40.65	112.56	-71.91	AVG	

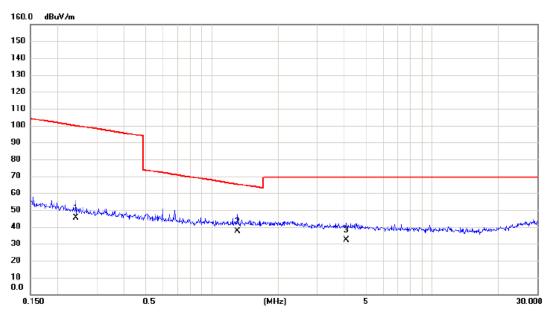
Report No.: BTL-FCCP-1-1711C248 Page 36 of 138





Test Mode: TX MODE

# Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2416	28.81	16.69	45.50	99.94	-54.44	AVG	
2 *	1.3098	21.63	15.78	37.41	65.26	-27.85	QP	
3	4.0704	17.42	14.91	32.33	69.54	-37.21	QP	

Report No.: BTL-FCCP-1-1711C248 Page 37 of 138





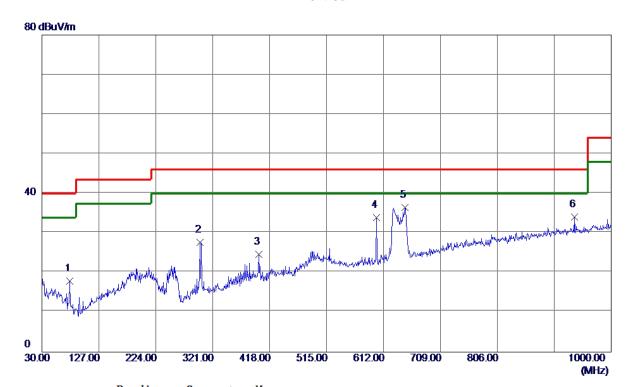
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-1-1711C248 Page 38 of 138





# Vertical



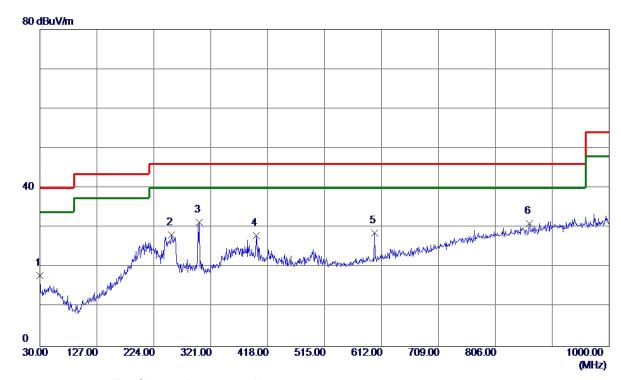
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	77. 5300	35. 58	-17.67	17. 91	40.00	<b>-22.09</b>	Peak	
2	299.6600	40. 56	-12.88	27. 68	46.00	-18. 32	Peak	
3	399. 5700	35. 95	-11. 37	24. 58	46.00	-21.42	Peak	
4	600. 3600	40. 29	-6.41	33. 88	46.00	-12. 12	Peak	
5 *	648.8600	41.99	<b>-5. 50</b>	36. 49	46.00	-9. 51	Peak	
6	936. 9500	32. 40	1.74	34. 14	46.00	-11.86	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 39 of 138





### Horizontal



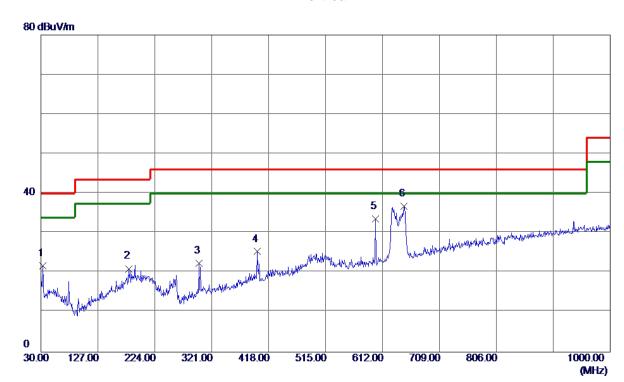
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	33. 13	-15. 25	17.88	40.00	-22. 12	Peak	
2	254.0700	43. 34	-15. 22	28. 12	46.00	-17.88	Peak	
3 *	301.6000	44. 19	-12.80	31. 39	46.00	-14.61	Peak	
4	398. 6000	39. 37	-11. 38	27. 99	46.00	-18.01	Peak	
5	600. 3600	35. 00	-6.41	28. 59	46.00	-17.41	Peak	
6	864. 2000	30. 70	0. 29	30. 99	46.00	-15.01	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 40 of 138





### **Vertical**



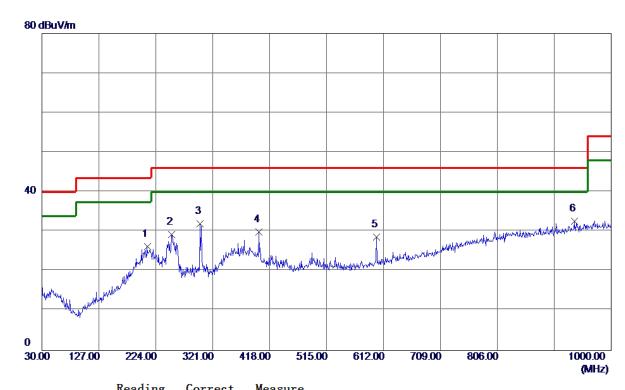
Comment

Report No.: BTL-FCCP-1-1711C248 Page 41 of 138





### Horizontal



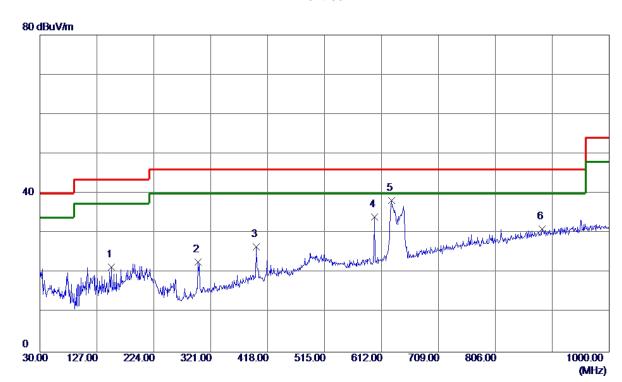
No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	209. 4500	40. 13	-13. 96	26. 17	<b>43.50</b>	-17. 33	Peak	
2	251. 1600	44. 20	-14. 98	29. 22	46.00	-16. 78	Peak	
3	299.6600	44.91	-12.88	32. 03	46.00	-13.97	Peak	
4	399. 5700	41. 29	-11. 37	29. 92	46.00	-16. 08	Peak	
5	600. 3600	34. 98	-6. 41	28. 57	46.00	-17.43	Peak	
6 *	936. 9500	30.85	1.74	32. 59	46.00	-13.41	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 42 of 138





### **Vertical**



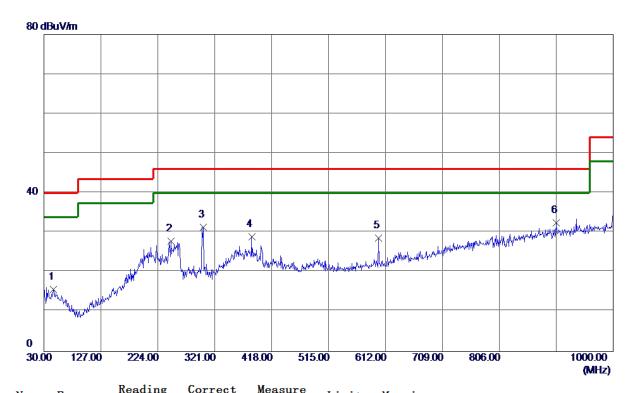
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	152. 2200	34.88	-13. 39	21. 49	43.50	-22.01	Peak	
2	299.6600	35. 66	-12.88	22. 78	46.00	-23. 22	Peak	
3	398.6000	38.00	-11. 38	26. 62	46.00	-19. 38	Peak	
4	600. 3600	40. 52	-6. 41	34. 11	46.00	-11.89	Peak	
5 *	629.4600	44. 13	-5. 86	38. 27	46.00	-7.73	Peak	
6	885. 5400	30. 31	0. 73	31. 04	46.00	-14.96	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 43 of 138





### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	46. 4900	28. 60	-12. 98	15. 62	40.00	-24.38	Peak	
2	246. 3100	42. 59	-14.69	27. 90	46.00	-18. 10	Peak	
3	301.6000	44. 19	-12.80	31. 39	46.00	-14.61	Peak	
4	384.0500	40. 54	-11. 55	28. 99	46.00	-17.01	Peak	
5	600. 3600	35. 04	-6.41	28. 63	46.00	-17. 37	Peak	
6 *	903. 0000	31. 35	1. 09	32.44	46.00	-13. 56	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 44 of 138





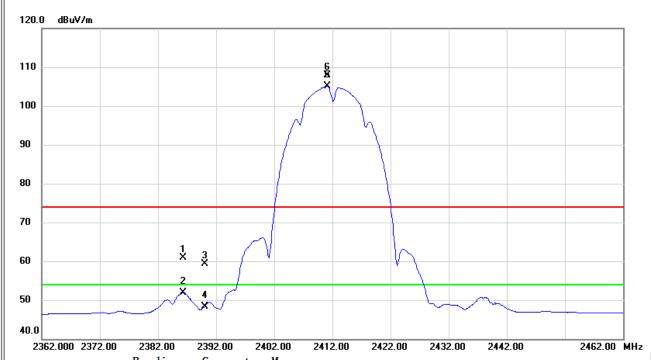
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-1-1711C248 Page 45 of 138





### Vertical



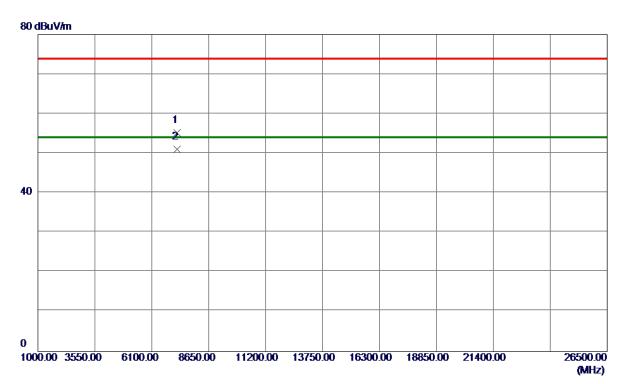
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 3000	27.88	33. 04	60. 92	74.00	-13.08	Peak	
2	2386. 3000	18. 77	33. 04	51.81	54.00	-2. 19	AVG	
3	2390. 0000	26. 30	33. 06	59. 36	74.00	-14.64	Peak	
4	2390. 0000	15. 32	33. 06	48. 38	54.00	-5. 62	AVG	
5 *	2411. 1000	71. 98	33. 14	105. 12	54.00	51. 12	AVG	No Limit
6	2411. 2000	74.68	33. 14	107.82	74.00	33.82	Peak	No Limit

Report No.: BTL-FCCP-1-1711C248 Page 46 of 138





#### **Vertical**



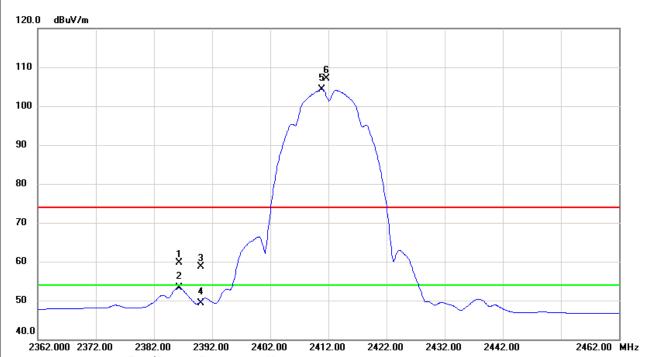
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7234.9600	42.02	13. 16	55. 18	74.00	-18.82	Peak	
2 *	7235. 2600	37. 93	13. 16	51.09	54.00	-2.91	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 47 of 138





#### Horizontal

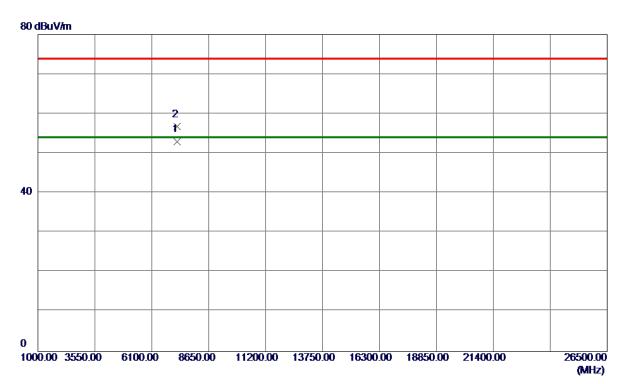


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 3000	26. 67	33. 04	59. 71	74.00	-14.29	Peak	
2	2386. 3000	20. 16	33. 04	53. 20	54.00	-0.80	AVG	
3	2390. 0000	25. 63	33. 06	58. 69	74.00	-15. 31	Peak	
4	2390. 0000	16. 21	33. 06	49. 27	54.00	-4.73	AVG	
5 *	2410. 9000	71. 22	33. 13	104. 35	54.00	50. 35	AVG	No Limit
6	2411. 7000	73. 97	33. 14	107. 11	74.00	33. 11	Peak	No Limit





#### Horizontal



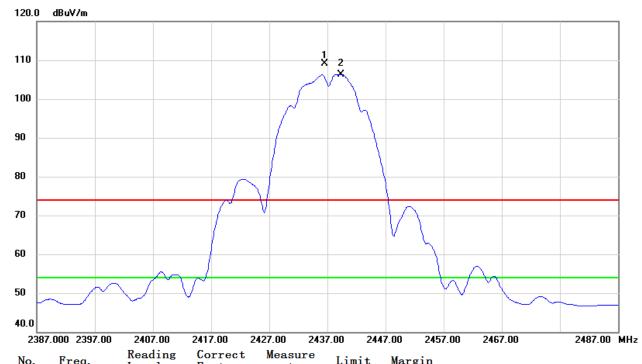
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7236.7600	39.81	13. 16	52. 97	54.00	-1.03	AVG	
2	7236. 8200	43. 56	13. 16	56.72	74.00	-17. 28	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 49 of 138





### Vertical

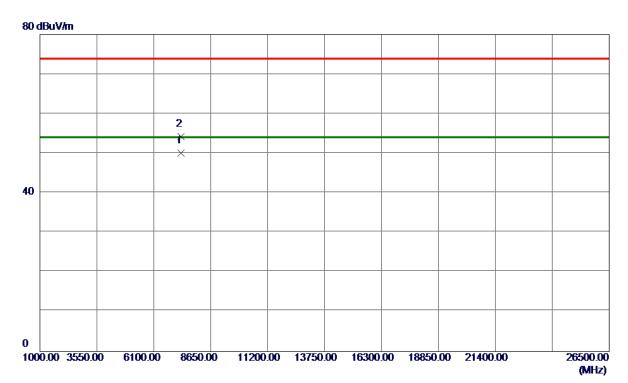


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436. 5000	75.85	33. 23	109.08	74.00	35.08	Peak	No Limit
2 *	2439. 3000	73. 10	33. 24	106. 34	54.00	52. 34	AVG	No Limit





## **Vertical**



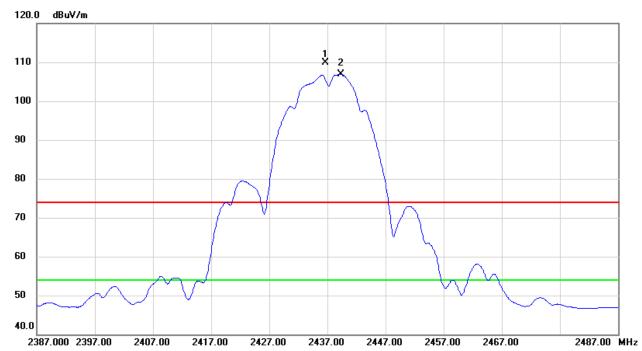
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7310. 2800	36. 80	13. 21	50.01	54.00	-3.99	AVG	
2	7310.8000	40.99	13. 21	54. 20	74.00	-19.80	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 51 of 138





#### Horizontal

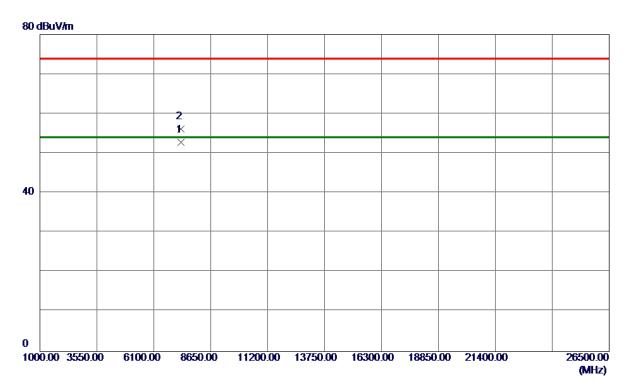


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436. 7000	76. 59	33. 23	109.82	74.00	35. 82	Peak	No Limit
2 *	2439. 3000	73. 61	33. 24	106.85	54.00	52. 85	AVG	No Limit





#### Horizontal



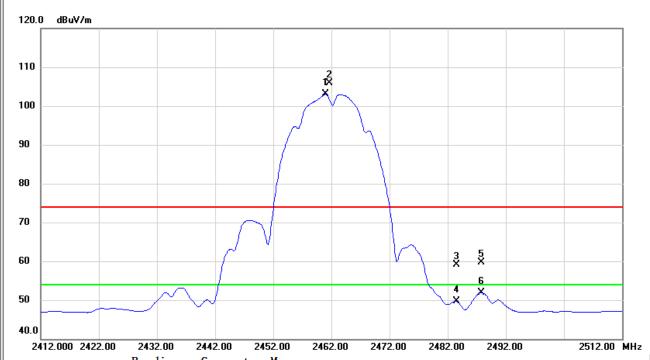
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7310. 2800	39. 62	13. 21	52.83	54.00	-1. 17	AVG	
2	7310.6600	43.01	13. 21	56. 22	74.00	-17.78	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 53 of 138





### **Vertical**



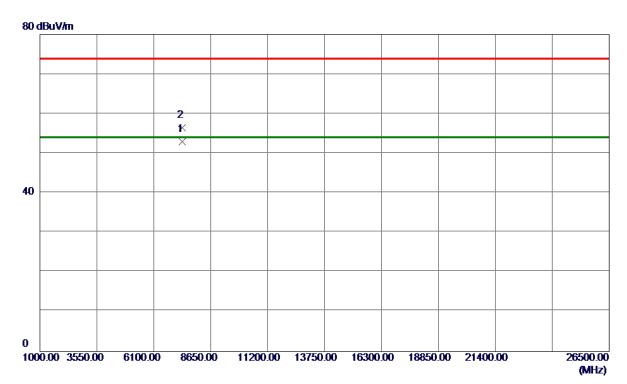
Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2461.0000	69.71	33. 32	103. 03	54.00	49.03	AVG	No Limit
2461.7000	72.62	33. 33	105. 95	74.00	31.95	Peak	No Limit
2483. 5000	25. 62	33.41	59. 03	74.00	-14.97	Peak	
2483. 5000	16. 31	33.41	49.72	54.00	-4.28	AVG	
2487.8000	26. 37	33. 42	59. 79	74.00	-14.21	Peak	
2487.8000	18. 45	33. 42	51.87	54.00	-2. 13	AVG	
	MHz 2461. 0000 2461. 7000 2483. 5000 2483. 5000 2487. 8000	Freq. Level	Hreq. Level Factor MHz dBuV/m dB 2461.0000 69.71 33.32 2461.7000 72.62 33.33 2483.5000 25.62 33.41 2483.5000 16.31 33.41 2487.8000 26.37 33.42	MHz         dBuV/m         dB         dBuV/m           2461.0000         69.71         33.32         103.03           2461.7000         72.62         33.33         105.95           2483.5000         25.62         33.41         59.03           2483.5000         16.31         33.41         49.72           2487.8000         26.37         33.42         59.79	Freq.         Level         Factor         ment         Limit           MHz         dBuV/m         dB         dBuV/m         dBuV/m           2461.0000         69.71         33.32         103.03         54.00           2461.7000         72.62         33.33         105.95         74.00           2483.5000         25.62         33.41         59.03         74.00           2483.5000         16.31         33.41         49.72         54.00           2487.8000         26.37         33.42         59.79         74.00	MHz         dBuV/m         dB         dBuV/m         dB uV/m         dB           2461.0000         69.71         33.32         103.03         54.00         49.03           2461.7000         72.62         33.33         105.95         74.00         31.95           2483.5000         25.62         33.41         59.03         74.00         -14.97           2483.5000         16.31         33.41         49.72         54.00         -4.28           2487.8000         26.37         33.42         59.79         74.00         -14.21	MHz         dBuV/m         dB         dBuV/m         dB uV/m         dB uV/m </td

Report No.: BTL-FCCP-1-1711C248 Page 54 of 138





## **Vertical**



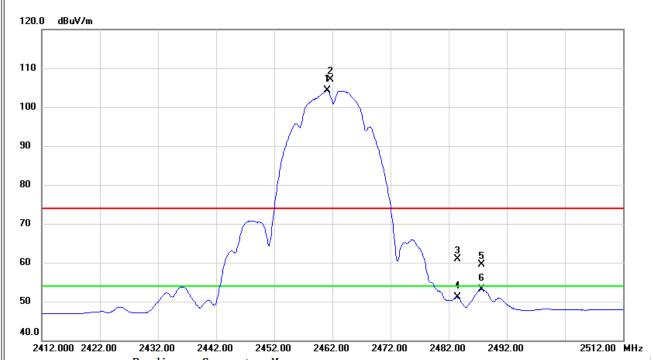
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7385. 3330	39.69	13. 27	52.96	54.00	-1.04	AVG	
2	7385. 5560	43. 28	13. 27	56. 55	74.00	-17.45	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 55 of 138





#### Horizontal

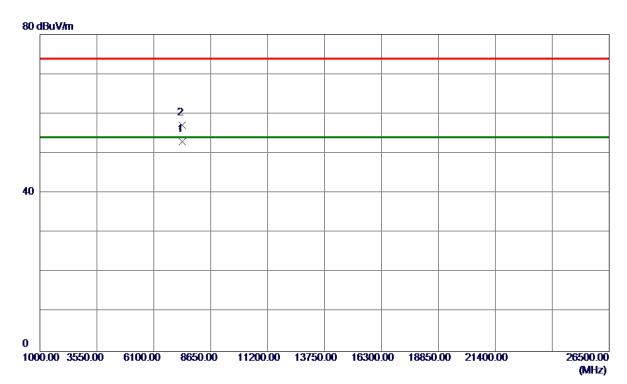


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461. 1000	70. 94	33. 32	104. 26	54.00	50. 26	AVG	No Limit
2	2461.7000	73.81	33. 33	107. 14	74.00	33. 14	Peak	No Limit
3	2483. 5000	27. 53	33.41	60. 94	74.00	-13.06	Peak	
4	2483. 5000	17.62	33.41	51. 03	54.00	-2.97	AVG	
5	2487.7000	26. 13	33. 42	59. 55	74.00	-14.45	Peak	
6	2487.7000	19.65	33. 42	53. 07	54.00	-0. 93	AVG	





#### Horizontal



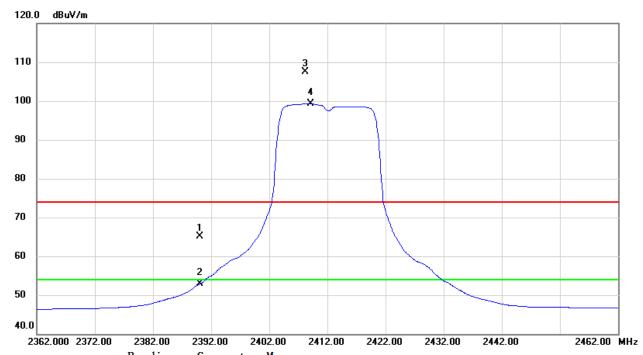
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7385. 2600	39.71	13. 27	52. 98	54.00	-1.02	AVG	
2	7386. 0200	43.78	13. 27	57.05	74.00	-16. 95	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 57 of 138





### **Vertical**



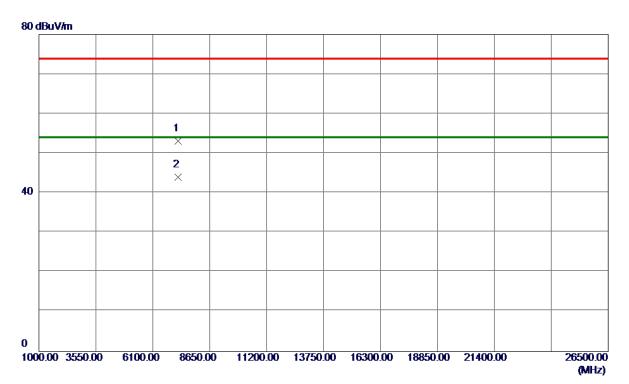
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32. 09	33.06	65. 15	74.00	-8.85	Peak	
2	2390.0000	19. 79	33.06	52.85	54.00	-1. 15	AVG	
3	2408. 2000	74. 37	33. 12	107.49	74.00	33.49	Peak	No Limit
4 *	2409. 1000	66. 12	33. 13	99. 25	54.00	45. 25	AVG	No Limit

Report No.: BTL-FCCP-1-1711C248 Page 58 of 138





#### **Vertical**



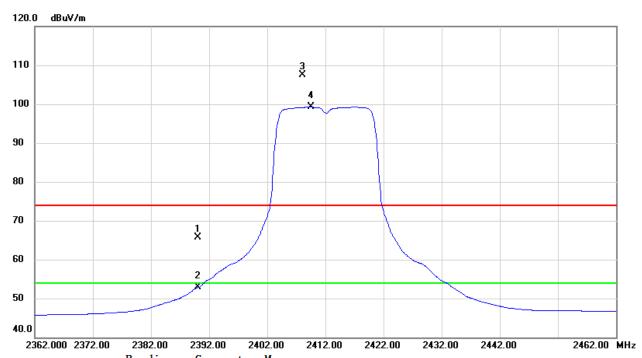
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7232. 1000	40.00	13. 15	53. 15	74.00	-20.85	Peak	
2 *	7232. 5000	30.81	13. 15	43.96	54.00	-10.04	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 59 of 138





#### Horizontal



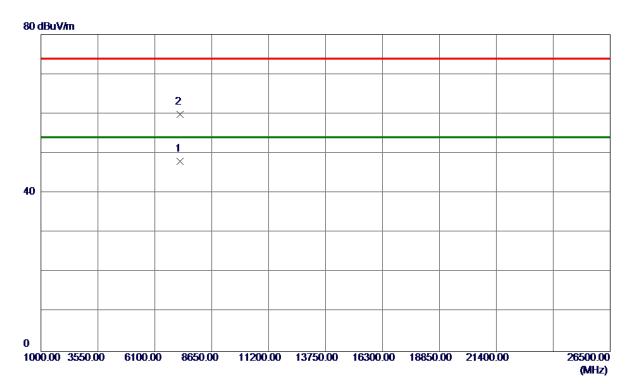
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	32.74	33.06	65. 80	74.00	-8. 2 <b>0</b>	Peak	
2	2390. 0000	19. 75	33.06	52. 81	54.00	-1. 19	AVG	
3	2408. 1000	74. 30	33. 12	107.42	74.00	33. 42	Peak	No Limit
4 *	2409. 5000	66. 12	33. 13	99. 25	54.00	45. 25	AVG	No Limit

Report No.: BTL-FCCP-1-1711C248 Page 60 of 138





### Horizontal



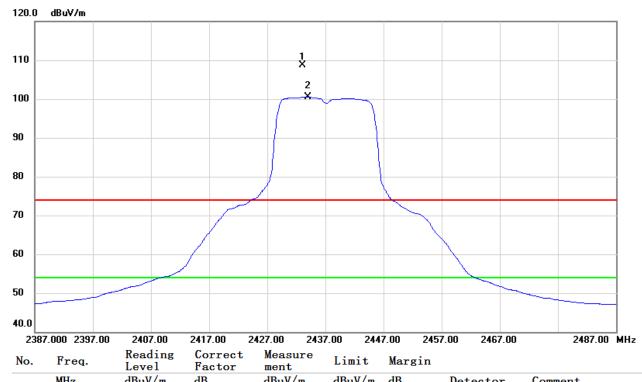
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7234. 2500	34.83	13. 16	47.99	54.00	-6. 01	AVG	
2	7238. 3000	46. 67	13. 16	59.83	74.00	-14.17	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 61 of 138





### **Vertical**

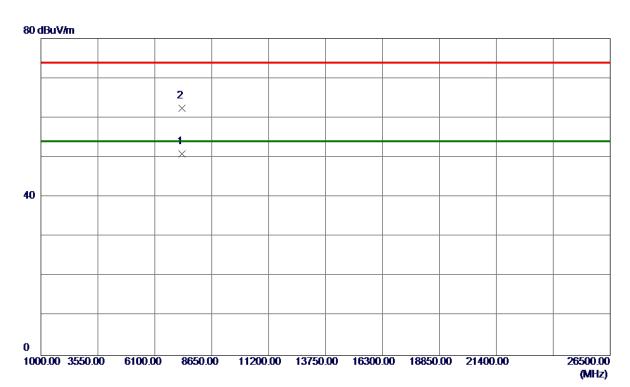


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433. 1000	75. 39	33. 22	108.61	74.00	34.61	Peak	No Limit
2 *	2434. 0000	67. 23	33. 22	100.45	54.00	46. 45	AVG	No Limit





### **Vertical**



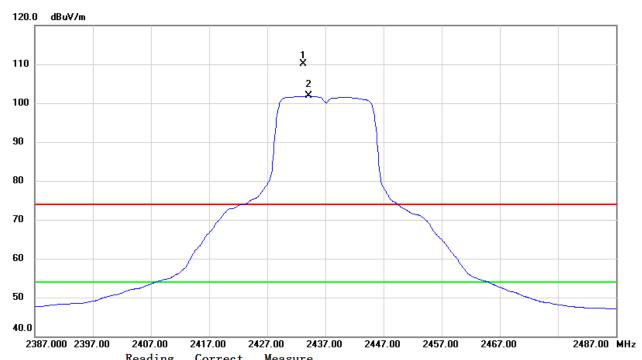
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7309. 5000	37.68	13. 21	<b>50.</b> 89	54.00	-3. 11	AVG	
2	7310. 9000	49. 15	13. 21	62. 36	74.00	-11.64	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 63 of 138





### Horizontal

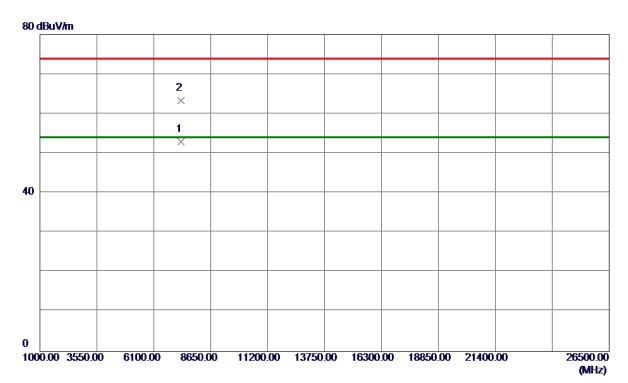


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433. 2000	76. 91	33. 22	110. 13	74.00	36. 13	Peak	No Limit
2 *	2434. 1000	68. 61	33. 22	101.83	54.00	47.83	AVG	No Limit





#### Horizontal



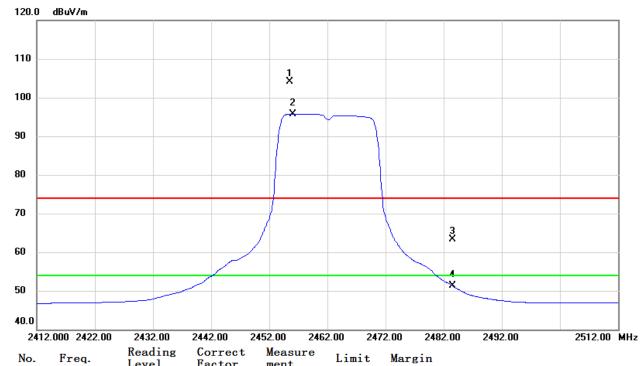
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7309. 2500	39. 75	13. 21	52.96	54.00	-1.04	AVG	
2	7312. 9000	50. 15	13. 21	63. 36	74.00	-10.64	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 65 of 138





### **Vertical**

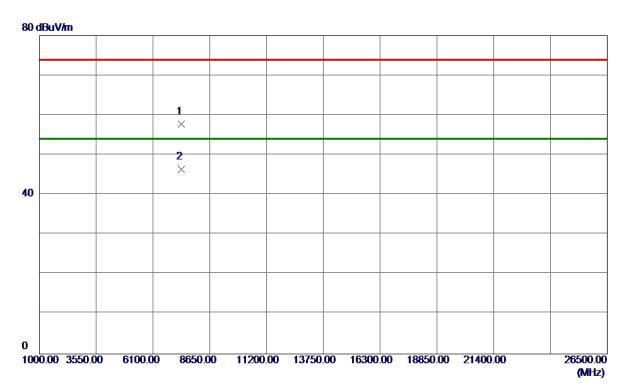


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455.6000	70.71	33. 30	104.01	74.00	30.01	Peak	No Limit
2 *	2456.0000	62.49	33. 30	95. 79	54.00	41.79	AVG	No Limit
3	2483. 5000	29.87	33.41	63. 28	74.00	-10.72	Peak	
4	2483. 5000	17. 93	33.41	51.34	54.00	-2.66	AVG	





### Vertical



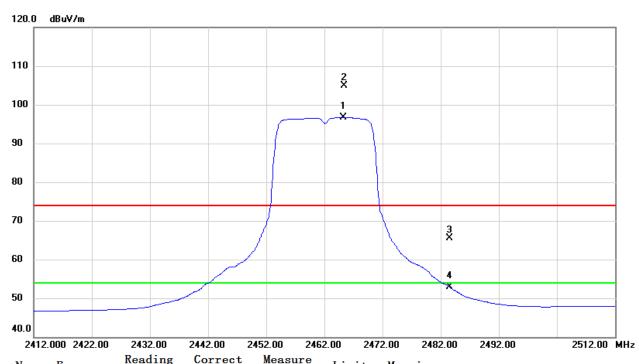
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7382. 7000	44.49	13. 27	57. 76	74.00	-16. 24	Peak	
2 *	7383. 2500	33. 20	13. 27	46. 47	54.00	-7. 53	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 67 of 138





### Horizontal

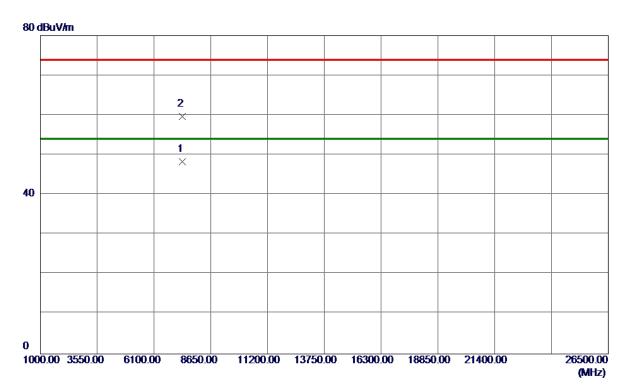


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2465. 3000	63. 32	33. 34	96. 66	54.00	42.66	AVG	No Limit
2	2465. 4000	71. 51	33. 34	104.85	74.00	30.85	Peak	No Limit
3	2483. 5000	32. 12	33.41	65. 53	74.00	-8.47	Peak	
4	2483. 5000	19. 51	33.41	52. 92	54.00	-1.08	AVG	





#### Horizontal



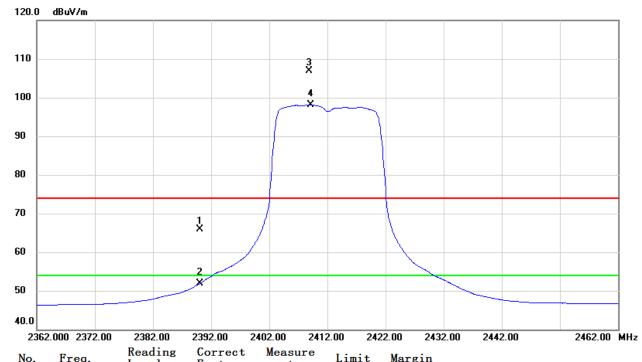
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7383. 2000	34.98	13. 27	48. 25	54.00	-5. 75	AVG	
2	7382. 7500	46. 35	13. 27	59. 62	74.00	-14. 38	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 69 of 138





### **Vertical**

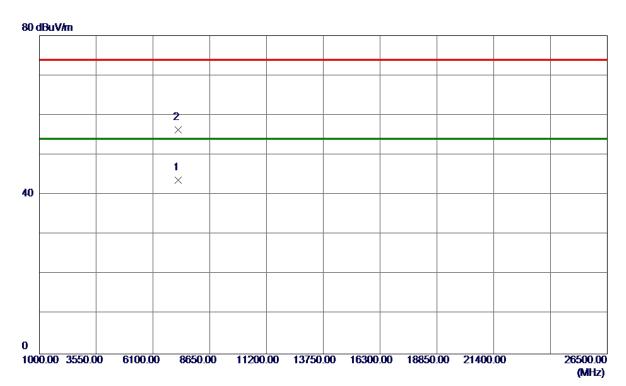


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32.81	33.06	65. 87	74.00	-8. 13	Peak	
2	2390.0000	18. 83	33.06	51.89	54.00	-2. 11	AVG	
3	2408.9000	73. 79	33. 13	106. 92	74.00	32.92	Peak	No Limit
4 *	2409. 1000	65. 02	33. 13	98. 15	54.00	44. 15	AVG	No Limit





### Vertical



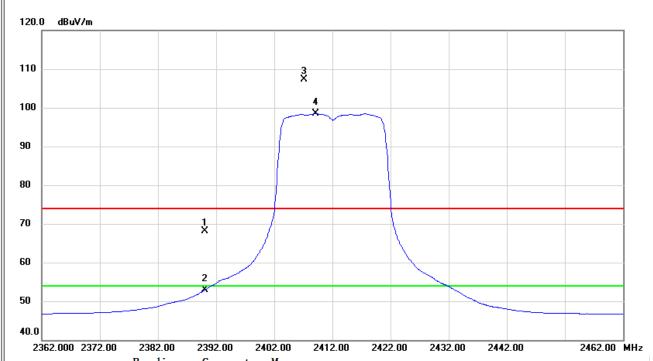
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7236. 6500	30. 59	13. 16	43.75	54.00	-10.25	AVG	
2	7237. 5000	43. 21	13. 16	56. 37	74.00	-17.63	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 71 of 138





#### Horizontal

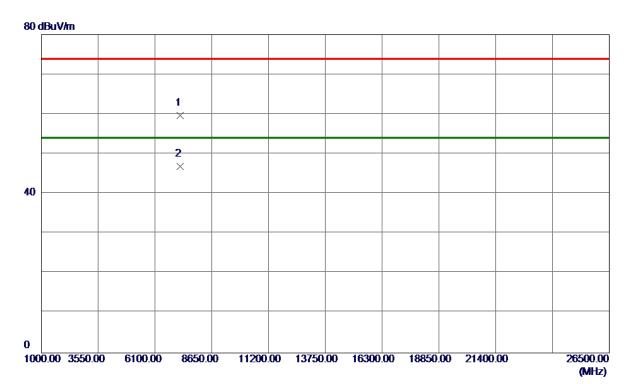


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	35. 08	33.06	68. 14	74.00	-5.86	Peak	
2	2390.0000	19. 79	33.06	52.85	54.00	-1. 15	AVG	
3	2407. 2000	74. 11	33. 12	107. 23	74.00	33. 23	Peak	No Limit
4 *	2409. 1000	65. 33	33. 13	98. 46	54.00	44.46	AVG	No Limit





#### Horizontal



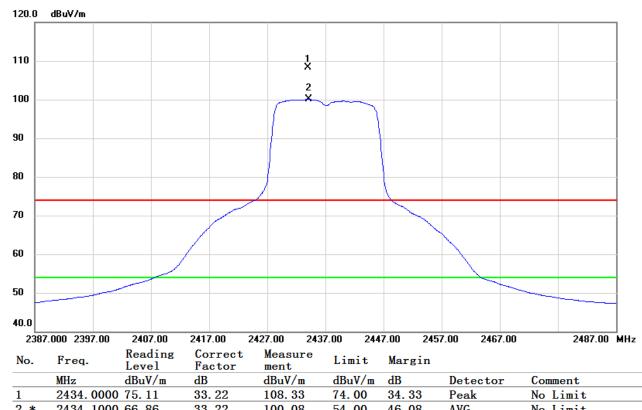
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7235. 2500	46.48	13. 16	59.64	74.00	-14.36	Peak	
2 *	7236. 5500	33. 72	13. 16	46.88	54.00	-7. 12	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 73 of 138





# Vertical

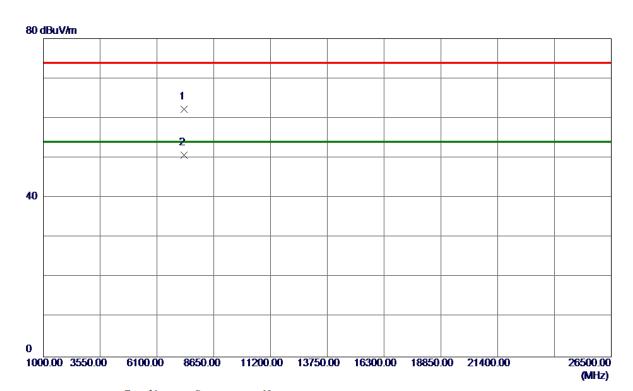


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.0000	75. 11	33. 22	108. 33	74.00	34. 33	Peak	No Limit
2 *	2434. 1000	66. 86	33. 22	100.08	54.00	46.08	AVG	No Limit





#### Vertical



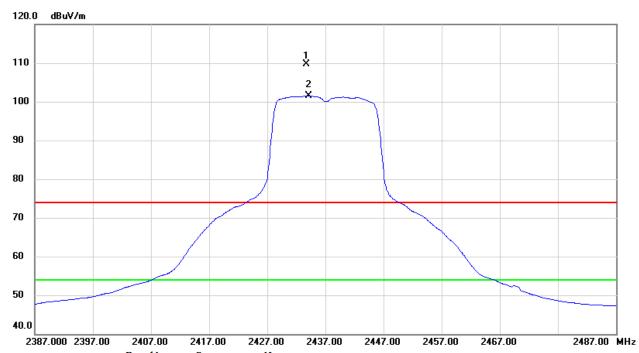
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7310. 2500	48.96	13. 21	62. 17	74.00	-11.83	Peak	
2 *	7311. 7000	37. 58	13. 21	50. 79	54.00	-3. 21	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 75 of 138





#### Horizontal

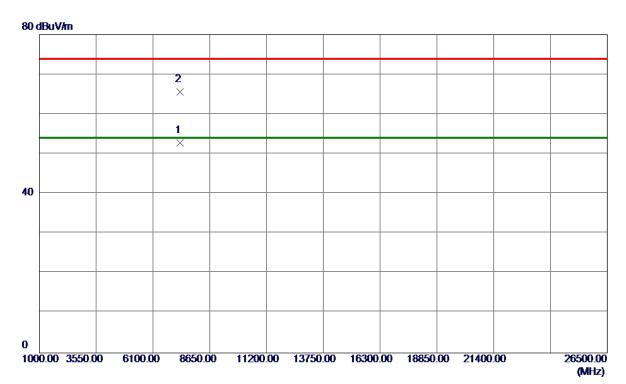


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.7000	76. 55	33. 22	109.77	74.00	35.77	Peak	No Limit
2 *	2434. 1000	68. 33	33. 22	101.55	54.00	47.55	AVG	No Limit





#### Horizontal



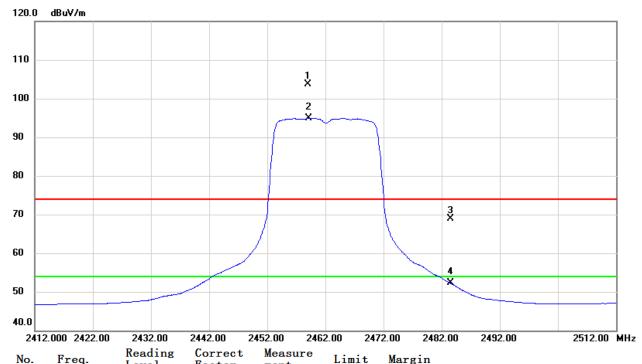
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7306. 9000	39.66	13. 21	52. 87	54.00	-1. 13	AVG	
2	7318. 2500	52. 39	13. 22	65. 61	74.00	-8. 39	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 77 of 138





# **Vertical**

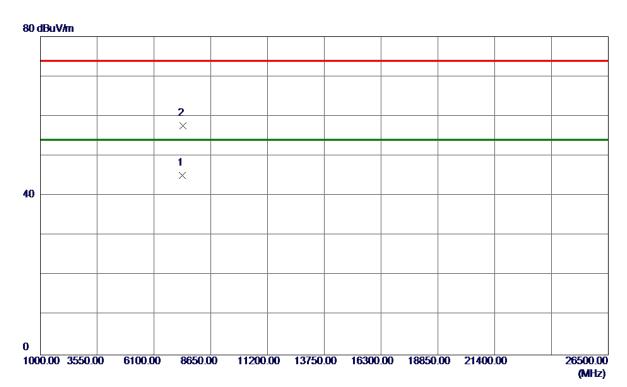


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.0000	70. 36	33. 32	103.68	74.00	29.68	Peak	No Limit
2 *	2459. 2000	61.61	33. 32	94.93	54.00	40.93	AVG	No Limit
3	2483. 5000	35. 54	33.41	68. 95	74.00	<b>−5. 0</b> 5	Peak	
4	2483. 5000	18.86	33. 41	52. 27	54.00	-1.73	AVG	





#### Vertical



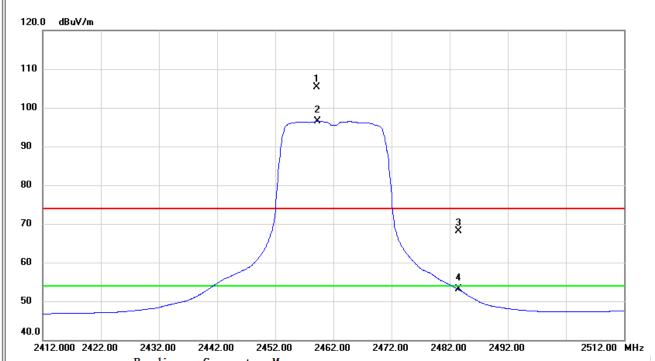
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7382. 1500	31.84	13. 27	45. 11	54.00	-8.89	AVG	
2	7392, 9000	44. 30	13. 27	57. 57	74.00	-16. 43	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 79 of 138





#### Horizontal

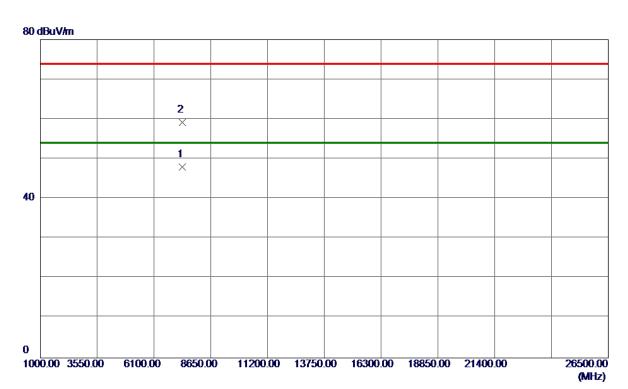


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459. 1000	72.06	33. 32	105. 38	74.00	31. 38	Peak	No Limit
2 *	2459. 3000	63. 16	33. 32	96. 48	54.00	42.48	AVG	No Limit
3	2483. 5000	34.77	33.41	68. 18	74.00	-5.82	Peak	
4	2483. 5000	19.61	33.41	53.02	54.00	-0. 98	AVG	





#### Horizontal



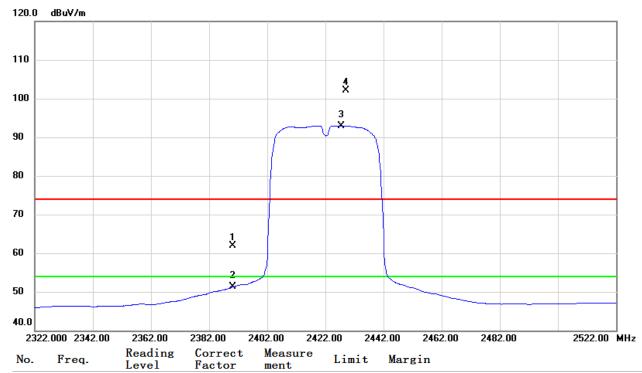
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7381.8500	34.68	13. 27	47.95	54.00	-6. 05	AVG	
2	7385. 3000	45. 98	13. 27	59. 25	74.00	-14.75	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 81 of 138





# **Vertical**

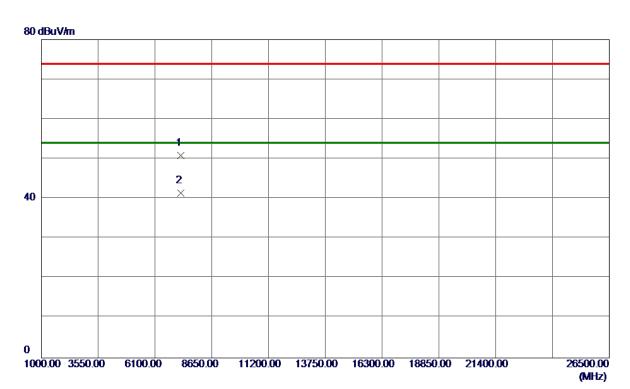


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	28.77	33. 06	61.83	74.00	-12. 17	Peak	
2	2390.0000	18. 20	33. 06	51. 26	54.00	-2.74	AVG	
3 *	2427.4000	59. 79	33. 20	92. 99	54.00	38. 99	AVG	No Limit
4	2429.0000	68. 93	33. 20	102. 13	74.00	28. 13	Peak	No Limit





#### **Vertical**



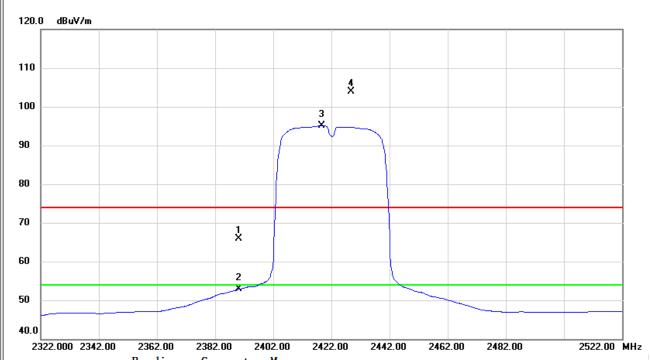
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7255. 6000	37.68	13. 17	50.85	74.00	-23. 15	Peak	
2 *	7261. 0000	28. 26	13. 18	41.44	54.00	-12. 56	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 83 of 138





#### Horizontal

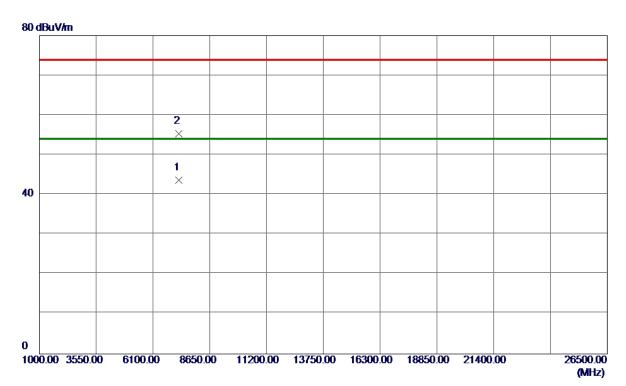


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32.81	33.06	65. 87	74.00	-8. 13	Peak	
2	2390.0000	19. 78	33.06	52.84	54.00	-1. 16	AVG	
3 *	2418.6000	61.89	33. 16	95. 05	54.00	41.05	AVG	No Limit
4	2428.8000	70.70	33. 20	103. 90	74.00	29. 90	Peak	No Limit





#### Horizontal



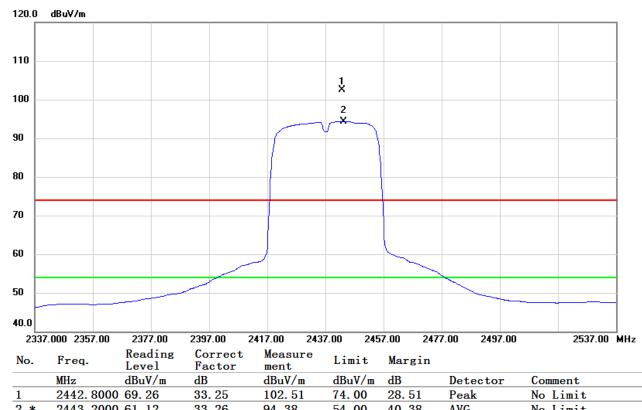
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7263.6000	30. 55	13. 18	43.73	54.00	-10. 27	AVG	
2	7264.0000	42. 16	13. 18	55. 34	74.00	-18. 66	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 85 of 138





# Vertical

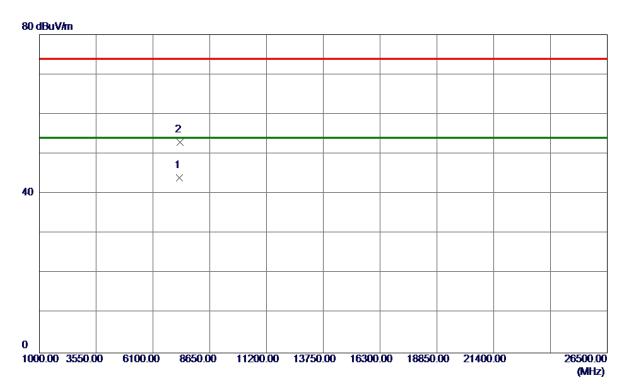


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442.8000	69. 26	33. 25	102. 51	74.00	28. 51	Peak	No Limit
2 *	2443. 2000	61. 12	33. 26	94. 38	54.00	40.38	AVG	No Limit





#### **Vertical**



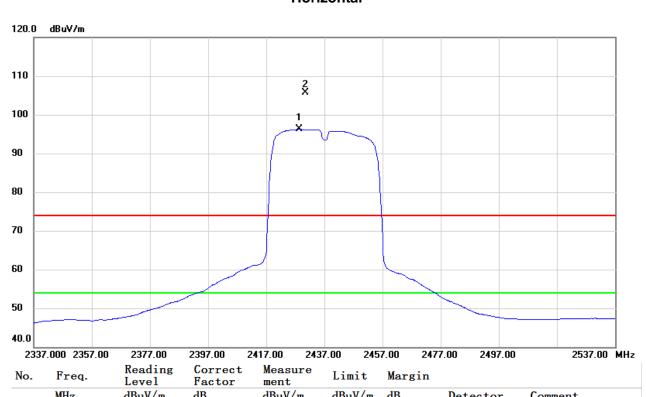
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7302.0000	30.85	13. 21	44.06	54.00	-9.94	AVG	
2	7316. 0000	39. 78	13. 22	53.00	74.00	-21.00	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 87 of 138





#### Horizontal

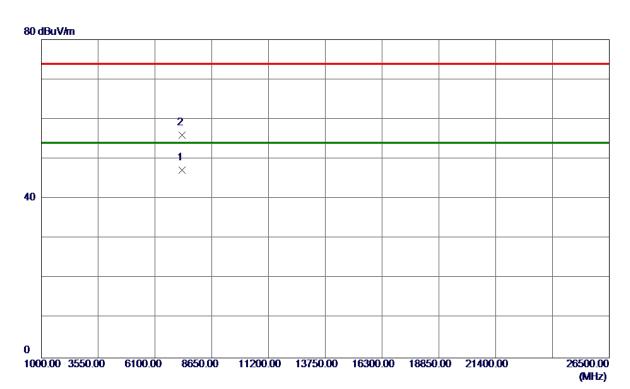


l	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2428. 4000	63. 01	33. 20	96. 21	54.00	42.21	AVG	No Limit
2	2	2430. 4000	72.48	33. 21	105. 69	74.00	31.69	Peak	No Limit





#### Horizontal



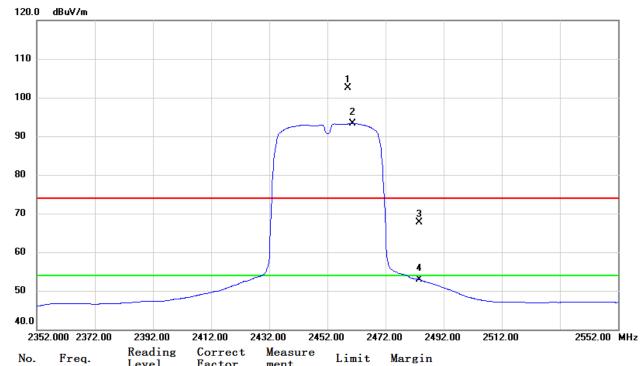
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7314.4000	33. 98	13. 22	47. 20	54.00	-6. 80	AVG	
2	7326. 8000	42.73	13. 23	55. 96	74.00	-18.04	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 89 of 138





# **Vertical**

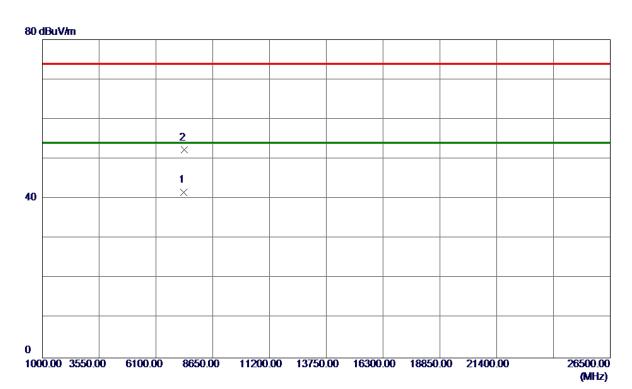


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.0000	69. 22	33. 32	102. 54	74.00	28. 54	Peak	No Limit
2 *	2460.6000	59. 98	33. 32	93. 30	54.00	39. 30	AVG	No Limit
3	2483. 5000	34. 28	33.41	67.69	74.00	-6. 31	Peak	
4	2483. 5000	19.48	33.41	52.89	54.00	-1.11	AVG	





#### **Vertical**



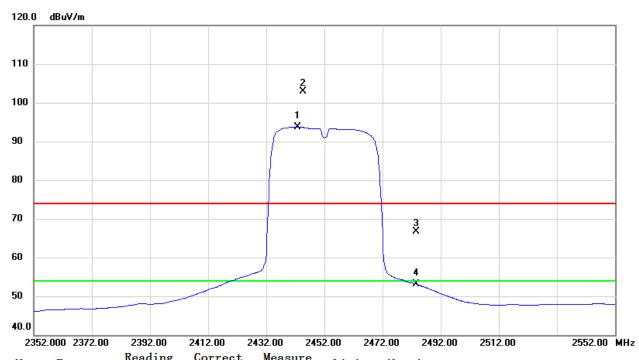
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7351.7500	28. 34	13. 24	41.58	54.00	-12.42	AVG	
2	7363. 0000	38. 99	13. 25	52. 24	74.00	-21.76	Peak	

Report No.: BTL-FCCP-1-1711C248 Page 91 of 138





#### Horizontal

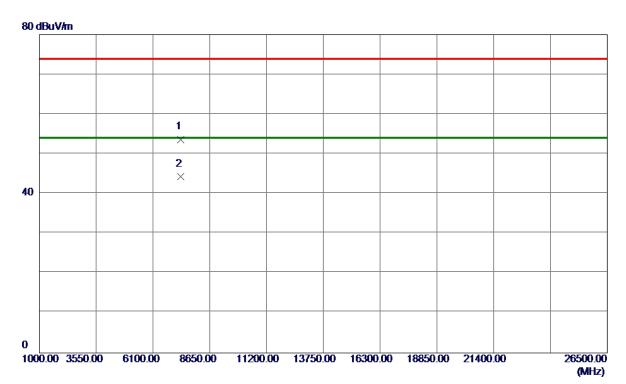


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2442.8000	60.48	33. 25	93.73	54.00	39.73	AVG	No Limit
2	2444.6000	69. 63	33. 26	102.89	74.00	28. 89	Peak	No Limit
3	2483. 5000	33. 35	33.41	66. 76	74.00	-7. 24	Peak	
4	2483. 5000	19. 73	33.41	53. 14	54.00	-0.86	AVG	





#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7347.8500	40.44	13. 24	53. 68	74.00	-20. 32	Peak	
2 *	7358. 2500	31.02	13. 25	44. 27	54.00	-9.73	AVG	

Report No.: BTL-FCCP-1-1711C248 Page 93 of 138





APPENDIX E - BANDWIDTH

Report No.: BTL-FCCP-1-1711C248 Page 94 of 138

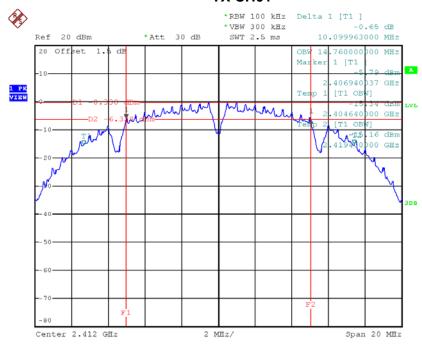




# Test Mode: TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	14.76	500	Complies
2437	10.10	14.8	500	Complies
2462	10.10	14.76	500	Complies

#### TX CH01

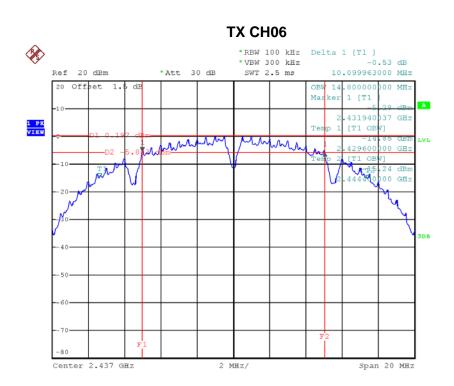


Date: 15.DEC.2017 08:43:29

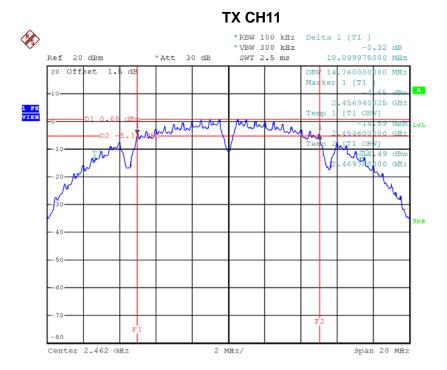
Report No.: BTL-FCCP-1-1711C248 Page 95 of 138







Date: 15.DEC.2017 08:46:54



Date: 15.DEC.2017 08:50:20

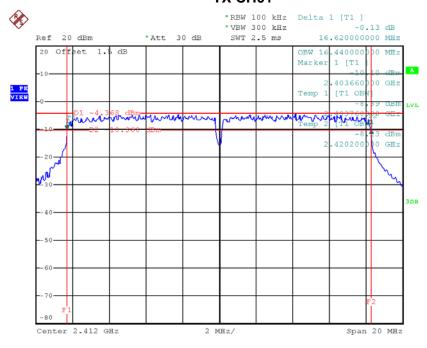




# Test Mode: TX G Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.62	16.44	500	Complies
2437	16.58	16.44	500	Complies
2462	16.58	16.44	500	Complies

# TX CH01

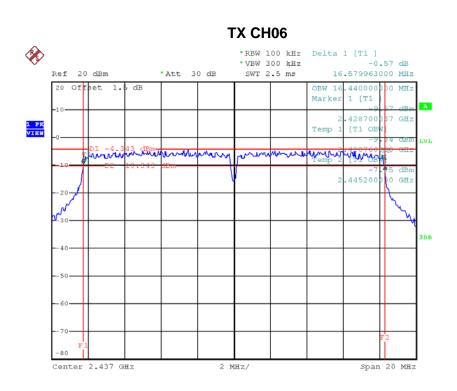


Date: 15.DEC.2017 08:51:38

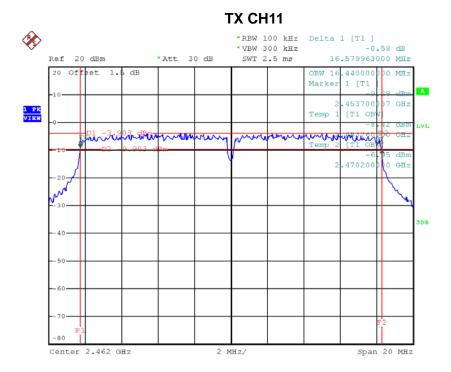
Report No.: BTL-FCCP-1-1711C248 Page 97 of 138







Date: 15.DEC.2017 08:52:53



Date: 15.DEC.2017 08:56:33

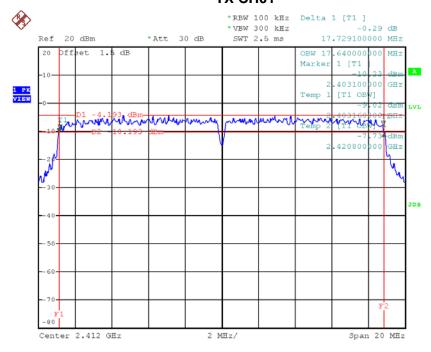




# Test Mode: TX N-20MHz Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.73	17.64	500	Complies
2437	17.69	17.6	500	Complies
2462	17.75	17.64	500	Complies

# TX CH01

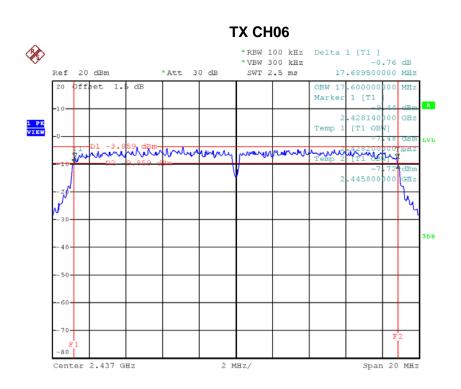


Date: 15.DEC.2017 08:57:46

Report No.: BTL-FCCP-1-1711C248 Page 99 of 138







Date: 15.DEC.2017 08:59:03

# **TX CH11** \*RBW 100 kHz Delta 1 [T1 ] \*VRW 300 kHz 0.39 dB Ref 20 dBm \*Att 30 dB SWT 2.5 ms 17.750000000 MHz Offset 1.5 dB Marke 1 [T1 453100 1 PK View DI -3.74 BELLEVILLEN mangement Telmo 470800 Center 2.462 GHz Span 20 MHz 2 MHz/

Date: 15.DEC.2017 09:00:24

Report No.: BTL-FCCP-1-1711C248 Page 100 of 138

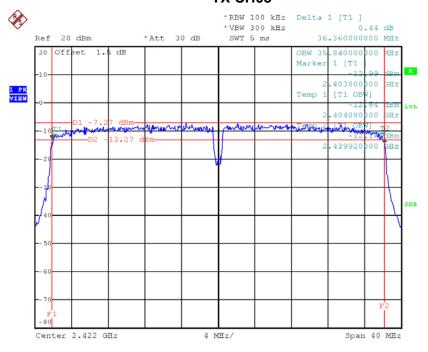




# Test Mode: TX N-40MHz Mode\_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.36	35.84	500	Complies
2437	36.40	35.84	500	Complies
2452	36.49	35.84	500	Complies

# **TX CH03**

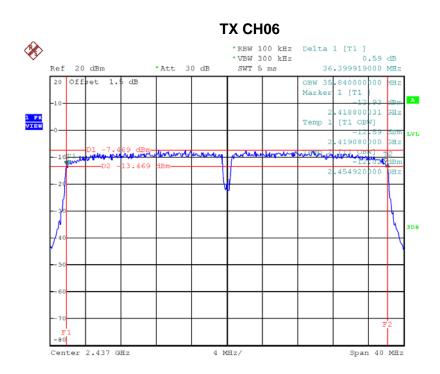


Date: 15.DEC.2017 09:01:55

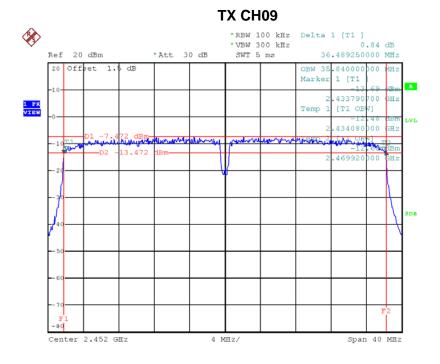
Report No.: BTL-FCCP-1-1711C248 Page 101 of 138







Date: 15.DEC.2017 09:03:08



Date: 15.DEC.2017 09:04:19





Report No.: BTL-FCCP-1-1711C248 Page 103 of 138





Test Mode :TX B Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	12.31	0.02	30.00	1.00	Complies	
2437	12.79	0.02	30.00	1.00	Complies	
2462	12.65	0.02	30.00	1.00	Complies	

Test Mode :TX G Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	19.47	0.09	30.00	1.00	Complies	
2437	19.34	0.09	30.00	1.00	Complies	
2462	19.68	0.09	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	19.05	0.08	30.00	1.00	Complies	
2437	19.23	0.08	30.00	1.00	Complies	
2462	19.25	0.08	30.00	1.00	Complies	

Test Mode :TX N40 Mode_CH03/06/09						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2422	19.20	0.08	30.00	1.00	Complies	
2437	19.17	0.08	30.00	1.00	Complies	
2452	19.42	0.09	30.00	1.00	Complies	

Report No.: BTL-FCCP-1-1711C248 Page 104 of 138