



# **FCC Radio Test Report**

FCC ID: V7TAC6-V2

This report concerns (che	ck one): ⊠Original Grant
Project No. Equipment Test Model Series Model Applicant Address	<ul> <li>: 1711C143</li> <li>: AC1200 Smart Dual-Band WiFi Router</li> <li>: AC6</li> <li>: N/A</li> <li>: SHENZHEN TENDA TECHNOLOGY CO.,LTD</li> <li>: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052</li> </ul>
Date of Receipt Date of Test Issued Date Tested by	: Nov. 16, 2017 ~ Dec. 06, 2017

Testing Engineer : Welly Zhou

Technical Manager : Shawn Xioo

# 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-1-1711C143 Page 1 of 159





#### **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-1-1711C143 Page 2 of 159





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	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	13
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TE	STED 14
3.5 DESCRIPTION OF SUPPORT UNITS	14
	15
4 . EMC EMISSION TEST	
4.1 CONDUCTED EMISSION MEASUREMENT 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	15 15
4.1.2 TEST PROCEDURE	15 15
4.1.3 DEVIATION FROM TEST STANDARD	15
4.1.4 TEST SETUP	16
4.1.5 EUT OPERATING CONDITIONS	16
4.1.6 EUT TEST CONDITIONS 4.1.7 TEST RESULTS	16 16
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 RADIATED EMISSION LIMITS	17
4.2.2 TEST PROCEDURE	18
4.2.3 DEVIATION FROM TEST STANDARD	18
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS 4.2.6 EUT TEST CONDITIONS	20 20
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	20
4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)	20
4.2.9 TEST RESULTS (ABOVE 1000MHZ)	20
5 . BANDWIDTH TEST	21
5.1 APPLIED PROCEDURES	21
5.1.1 TEST PROCEDURE	21
5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP	21 21
5.1.4 EUT OPERATION CONDITIONS	21
5.1.5 EUT TEST CONDITIONS	21
5.1.6 TEST RESULTS	21
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	22

Report No.: BTL-FCCP-1-1711C143





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	22 22 22 22 22 22 22
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	23
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	23 23 23 23 23 23 23
8 . POWER SPECTRAL DENSITY TEST	24
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	24 24 24 24 24 24
9. MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
APPENDIX A - CONDUCTED EMISSION	31
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)	34
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)	39
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)	46
APPENDIX E - BANDWIDTH	95
APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER	104
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION	108
APPENDIX H - POWER SPECTRAL DENSITY	145

Report No.: BTL-FCCP-1-1711C143 Page 4 of 159





# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1711C143	Original Issue.	Dec. 07, 2017

Report No.: BTL-FCCP-1-1711C143 Page 5 of 159





#### 1. CERTIFICATION

Equipment : AC1200 Smart Dual-Band WiFi Router

Brand Name : Tenda Test Model : AC6 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. 16, 2017 ~ Dec. 06, 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-1-1711C143) 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-1-1711C143 Page 6 of 159





## 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-1-1711C143 Page 7 of 159





#### 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 designation number for FCC: CN5020

## 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<sub>cispr</sub> 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
DG-CB03		30MHz ~ 200MHz	Н	3.78
	CISPR	200MHz ~ 1,000MHz	V	4.10
	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-1-1711C143 Page 8 of 159





## 3. GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Smart Dual-Band WiFi Router		
Brand Name	Tenda		
Test Model	AC6		
Series Model	N/A		
Model Difference	N/A		
	Operation Frequency	2412~2462 MHz	
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
Product Description	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps	
	Output Power (Max.)	802.11b: 25.54dBm 802.11g: 26.43dBm 802.11n(20MHz): 29.48dBm 802.11n(40MHz): 28.48dBm	
Power Source	DC voltage supplied from AC/DC adapter. Brand/ Model: BN052-A09009U		
Power Rating	I/P: 100-240V~ 50/60Hz 0.3A O/P:9V== 1.0A		

#### 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		

Report No.: BTL-FCCP-1-1711C143 Page 9 of 159





## 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5
2	N/A	N/A	Dipole	N/A	5

## Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G**<sub>ANT</sub>, that is Directional gain=5.

4.	,		
	Operating Mode		
	TX Mode	1TX	2TX
	802.11b	V (ANT 1)	-
	802.11g	V (ANT 1)	-
	802.11n(20MHz)	-	V (ANT 1+ANT 2)
	802.11n(40MHz)	-	V (ANT 1+ANT 2)

ANT 1 for 1TX was found to be the worst case and recorded

Report No.: BTL-FCCP-1-1711C143





## 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-1-1711C143 Page 11 of 159





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 (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)
  - 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-1-1711C143 Page 12 of 159





## 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

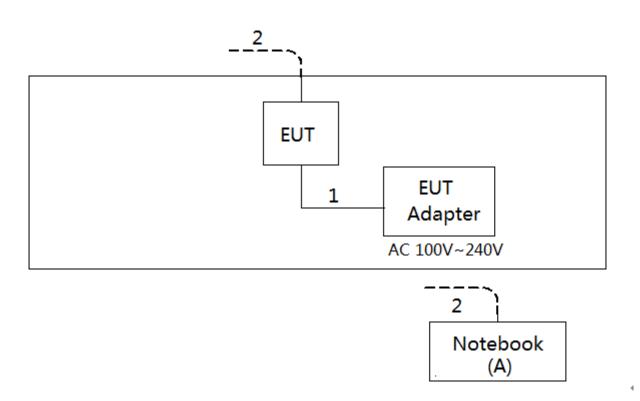
Test software version	MP_TEST		
Frequency (MHz)	2412	2437	2462
802.11b	27	32	32
802.11g	20	28	27
802.11n (20MHz)	23	28	27
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	30	36	34

Report No.: BTL-FCCP-1-1711C143 Page 13 of 159





## 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 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
1	NO	NO	1.2m	AC Cable
2	NO	NO	10m	RJ45 Cable

Report No.: BTL-FCCP-1-1711C143 Page 14 of 159





## 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

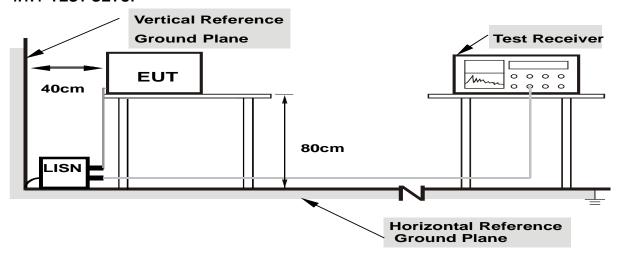
No deviation

Report No.: BTL-FCCP-1-1711C143 Page 15 of 159





#### 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-1-1711C143





#### 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)		
Frequency (Miriz)	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-1-1711C143





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

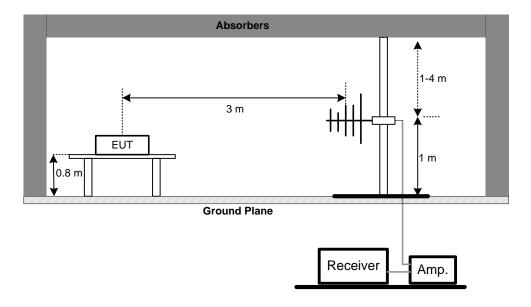
Report No.: BTL-FCCP-1-1711C143 Page 18 of 159



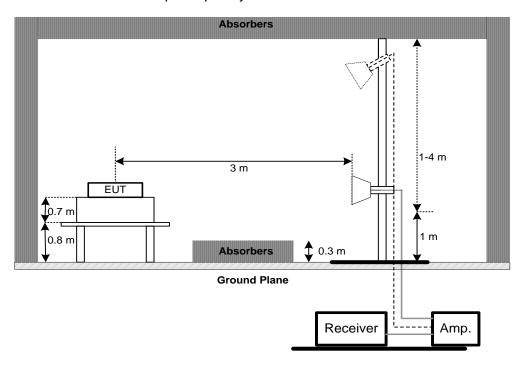


## 4.2.4 TEST SETUP

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



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

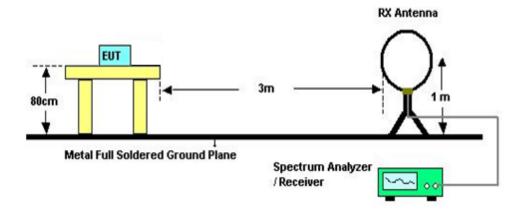


Report No.: BTL-FCCP-1-1711C143 Page 19 of 159





## (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-1-1711C143 Page 20 of 159





## 5. BANDWIDTH TEST

## **5.1 APPLIED PROCEDURES**

FCC Part15 (15.247) , Subpart C				
Section	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: AC 120V/60Hz

## **5.1.6 TEST RESULTS**

Please refer to the Appendix E.

Report No.: BTL-FCCP-1-1711C143 Page 21 of 159





## 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 and FCC KDB 662911 D01 Multiple Transmitter Output.

#### **6.1.2 DEVIATION FROM STANDARD**

No deviation.

#### 6.1.3 TEST SETUP

EUT	Power 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: AC 120V/60Hz

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

Report No.: BTL-FCCP-1-1711C143 Page 22 of 159





## 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



#### 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: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.

Report No.: BTL-FCCP-1-1711C143 Page 23 of 159





## 8. POWER SPECTRAL DENSITY TEST

## 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
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: AC 120V/60Hz

## 8.1.6 TEST RESULTS

Please refer to the Appendix H.

Report No.: BTL-FCCP-1-1711C143 Page 24 of 159





# 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	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 20, 2018	

Report No.: BTL-FCCP-1-1711C143 Page 25 of 159





	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	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018				

	Peak Output Power										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
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	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018					

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

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

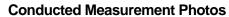
All calibration period of equipment list is one year.

Report No.: BTL-FCCP-1-1711C143 Page 26 of 159





# **10. EUT TEST PHOTO**







Report No.: BTL-FCCP-1-1711C143 Page 27 of 159

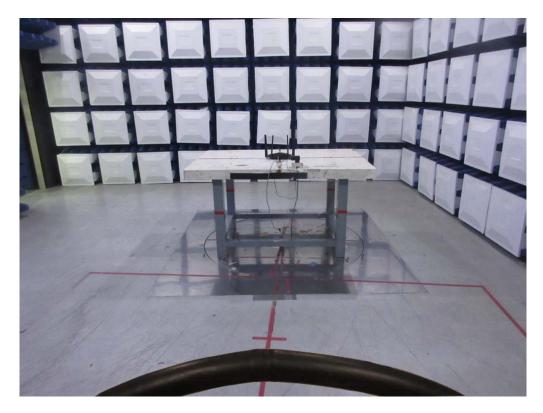




# **Radiated Measurement Photos**





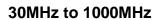


Report No.: BTL-FCCP-1-1711C143 Page 28 of 159





# **Radiated Measurement Photos**





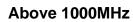


Report No.: BTL-FCCP-1-1711C143 Page 29 of 159





# **Radiated Measurement Photos**







Report No.: BTL-FCCP-1-1711C143 Page 30 of 159





APPENDIX A - CONDUCTED EMISSION	

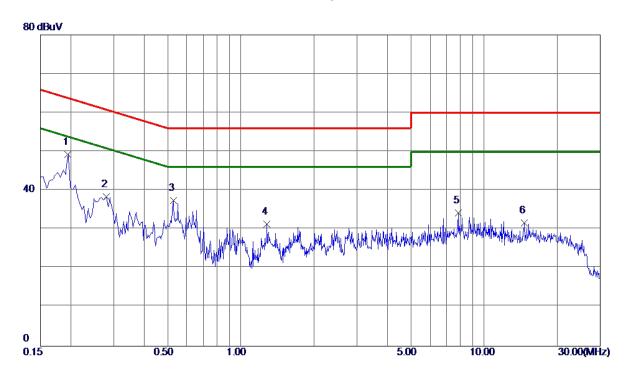
Report No.: BTL-FCCP-1-1711C143 Page 31 of 159





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. 1949	39. 53	9. 76	49. 29	63.83	-14.54	Peak	
2	0. 2805	28. 60	9. 76	38. 36	60.80	-22.44	Peak	
3	0.5280	27.67	9.80	37.47	56.00	-18. 53	Peak	
4	1. 2795	21.43	9.88	31. 31	56.00	-24.69	Peak	
5	7.8225	24.08	10. 22	34. 30	60.00	-25. 70	Peak	
6	14.6490	21. 11	10. 58	31. 69	60.00	-28. 31	Peak	

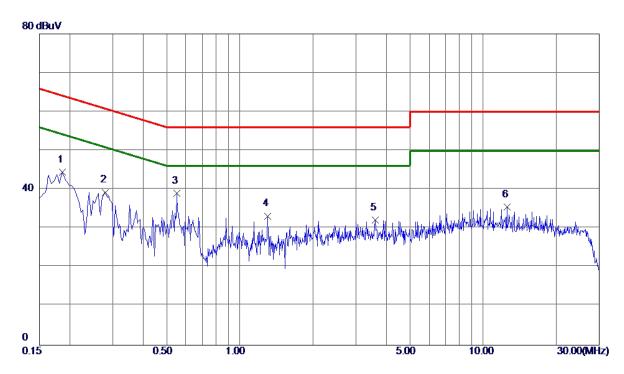
Report No.: BTL-FCCP-1-1711C143 Page 32 of 159





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. 1860	34.73	9. 69	44. 42	64.21	-19. 79	Peak	
2	0. 2805	29.60	9. 68	39. 28	60.80	-21.52	Peak	
3 *	0. 5505	29. 30	9. 70	39. 00	56.00	-17.00	Peak	
4	1.3020	23.44	9. 76	33. 20	56.00	-22.80	Peak	
5	3. 5970	22. 18	9. 93	32. 11	56.00	-23.89	Peak	
6	12. 5295	25. 07	10. 45	35. 52	60.00	-24.48	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 33 of 159





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

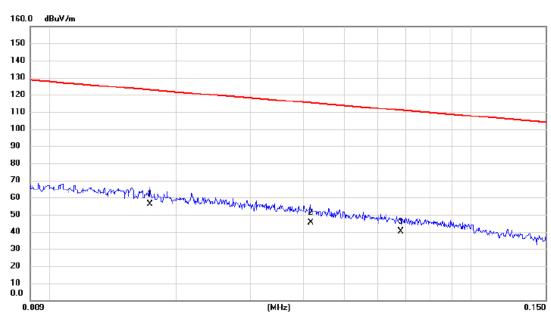
Report No.: BTL-FCCP-1-1711C143 Page 34 of 159





Test Mode: TX B MODE CHANNEL 01

Ant 0°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0173	36.15	19.97	56.12	122.84	-66.72	AVG	
2	0.0416	26.48	18.97	45.45	115.22	-69.77	AVG	
3	0.0680	21.96	18.37	40.33	110.95	-70.62	AVG	

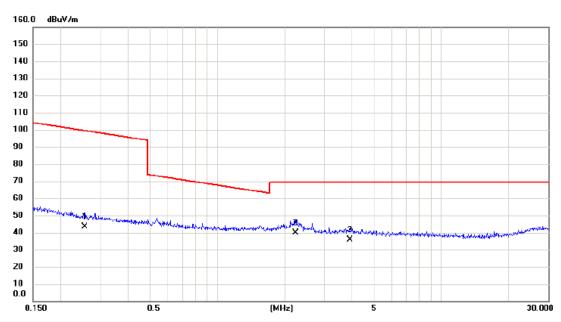
Report No.: BTL-FCCP-1-1711C143 Page 35 of 159





Test Mode: TX B MODE CHANNEL 01

## Ant 0°



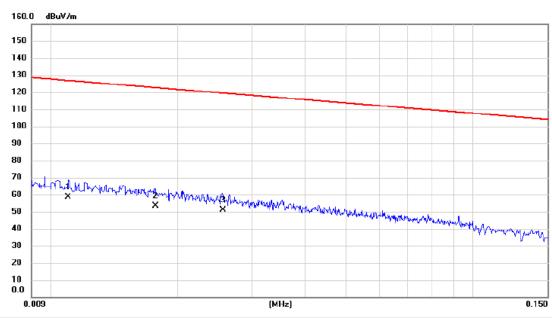
No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2562	26.85	16.66	43.51	99.43	-55.92	AVG	
2 *	2.2367	24.44	15.44	39.88	69.54	-29.66	QP	
3	3.9014	20.69	14.98	35.67	69.54	-33.87	QP	

Report No.: BTL-FCCP-1-1711C143 Page 36 of 159





# Ant 90°



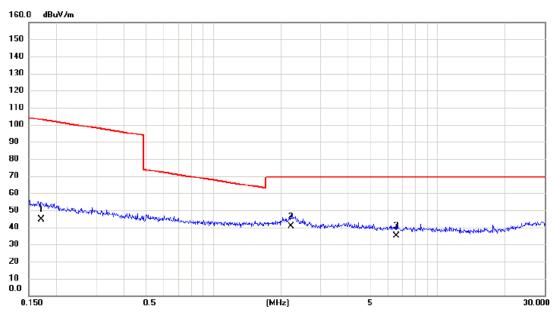
No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0110	37.70	20.79	58.49	126.78	-68.29	AVG	
2	0.0177	33.59	19.92	53.51	122.65	-69.14	AVG	
3	0.0256	31.59	19.45	51.04	119.44	-68.40	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 37 of 159





# Ant 90°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1712	27.87	16.89	44.76	102.94	-58.18	AVG	
2 *	2.2250	25.09	15.44	40.53	69.54	-29.01	QP	
3	6.5227	20.79	14.18	34.97	69.54	-34.57	QP	

Report No.: BTL-FCCP-1-1711C143 Page 38 of 159





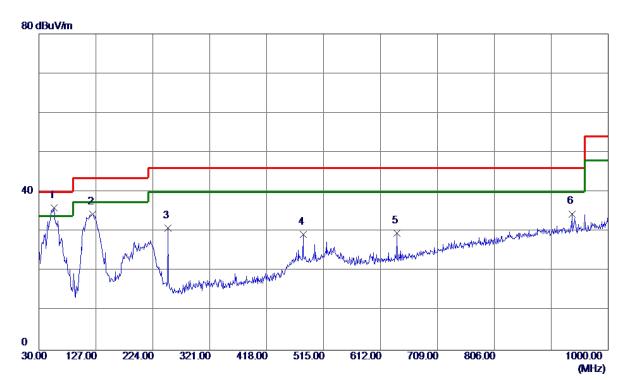
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-1-1711C143 Page 39 of 159





# Vertical



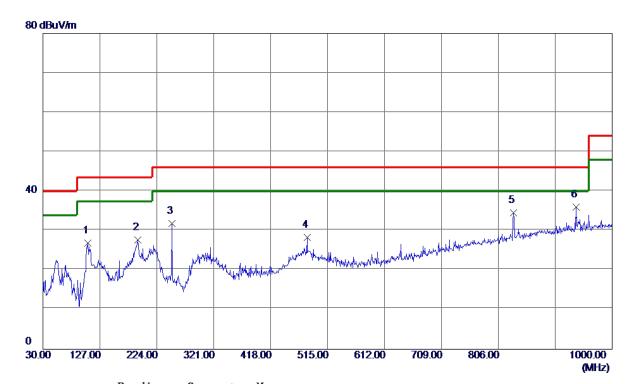
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	56. 1900	49.92	-13. 95	35. 97	40.00	-4.03	Peak	
2	121. 1800	49.65	-15. 32	34. 33	43.50	-9. 17	Peak	
3	250. 1900	45.72	-14.90	30.82	46.00	-15. 18	Peak	
4	480. 0800	38. 55	-9. 21	29. 34	46.00	-16.66	Peak	
5	640. 1300	35. 31	-5. 66	29.65	46.00	-16. 35	Peak	
6	938. 8900	32.70	1. 78	34.48	46.00	-11.52	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 40 of 159





# Horizontal



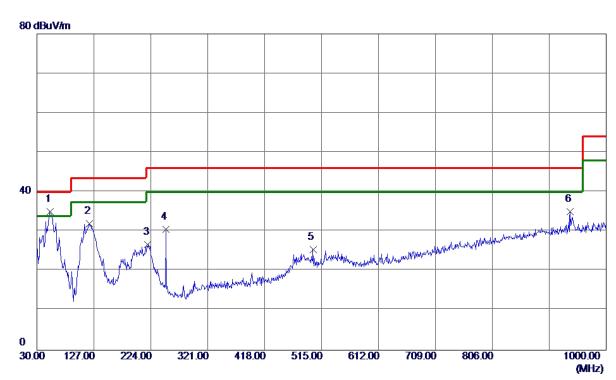
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	106. 6300	43. 45	-16.62	26.83	43.50	-16. 67	Peak	
2	191. 9900	40.74	-13.03	27.71	43.50	-15. 79	Peak	
3	250. 1900	46.77	-14.90	31.87	46.00	-14. 13	Peak	
4	480.0800	37. 59	-9. 21	28. 38	46.00	-17.62	Peak	
5	832. 1900	35. 03	-0.48	34. 55	46.00	-11.45	Peak	
6 *	938. 8900	34. 22	1. 78	36. 00	46.00	-10.00	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 41 of 159





# Vertical



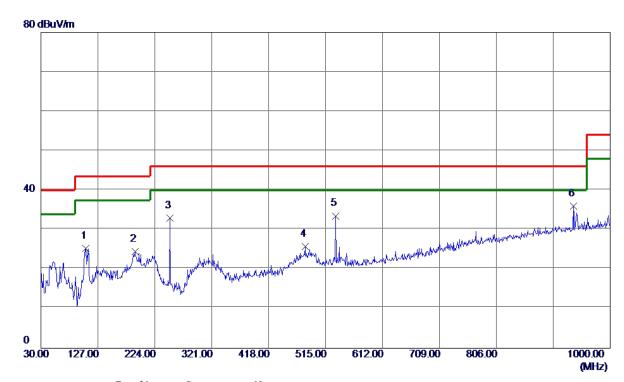
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	52.3100	48.86	-13. 79	35. 07	40.00	-4.93	Peak	
2	119. 2400	47.48	-15. 46	32.02	43.50	-11.48	Peak	
3	219. 1500	40.66	-13. 91	26. 75	46.00	-19. 25	Peak	
4	250. 1900	45. 42	-14.90	30. 52	46.00	-15.48	Peak	
5	500. 4500	34. 14	-8.71	25. 43	46.00	-20. 57	Peak	
6	938. 8900	33. 20	1. 78	34. 98	46.00	-11.02	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 42 of 159





# Horizontal



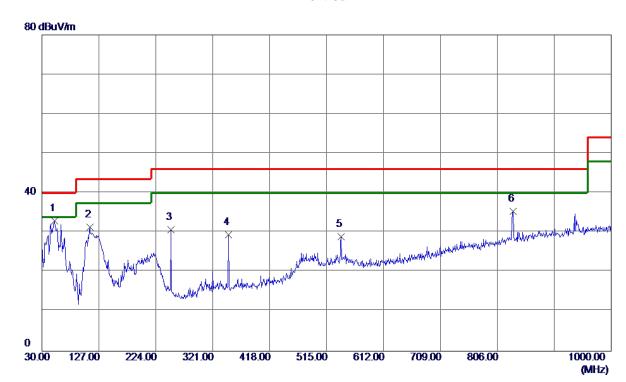
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	106. 6300	41.90	-16.62	25. 28	43.50	-18. 22	Peak	
2	190.0500	37. 39	-12.85	24.54	43.50	-18.96	Peak	
3	250. 1900	47.90	-14.90	33.00	46.00	-13.00	Peak	
4	480.0800	34.95	-9. 21	25.74	46.00	-20. 26	Peak	
5	532. 4600	41.59	-8. 07	33. 52	46.00	-12.48	Peak	
6 *	936. 9500	34. 32	1.74	36. 06	46.00	-9. 94	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 43 of 159





# Vertical



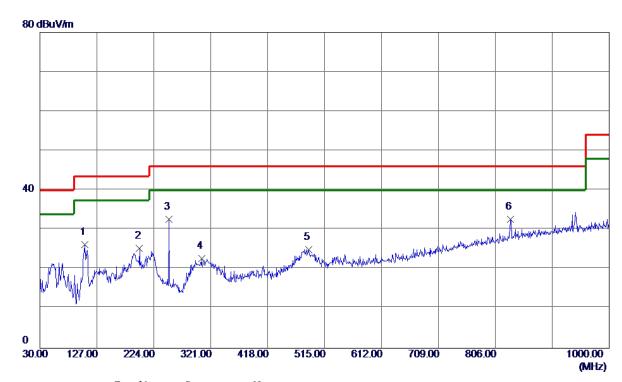
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	51.3400	46.71	-13.70	33. 01	40.00	-6. 99	Peak	
2	111.4800	47. 38	-16. 07	31. 31	43.50	-12. 19	Peak	
3	250. 1900	45.61	-14.90	30.71	46.00	-15. 29	Peak	
4	348. 1600	41.46	-11. 99	29. 47	46.00	-16. 53	Peak	
5	540. 2199	36. 88	-7.91	28. 97	46.00	-17.03	Peak	
6	833. 1599	35. 86	-0.46	35. 40	46.00	-10.60	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 44 of 159





# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	106. 6300	42.88	-16. 62	26. 26	43. 50	-17.24	Peak	
2	199.7500	38. 95	-13.73	25. 22	43.50	-18. 28	Peak	
3 *	250. 1900	47. 57	-14.90	32.67	46.00	-13. 33	Peak	
4	305. 4800	35. 49	-12.73	22.76	46.00	-23. 24	Peak	
5	487.8400	34. 04	-9. 02	25. 02	46.00	-20. 98	Peak	
6	832. 1900	33. 09	-0.48	32. 61	46.00	-13. 39	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 45 of 159





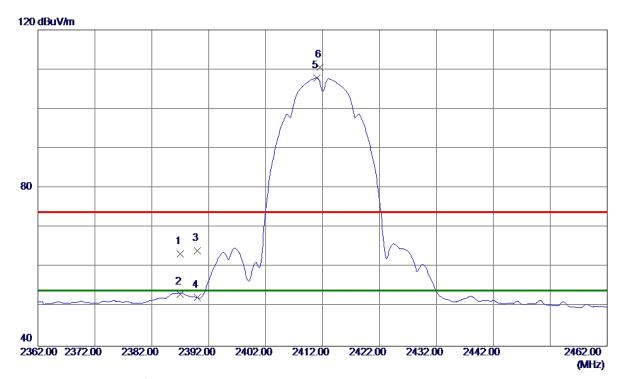
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-1-1711C143 Page 46 of 159





# Vertical



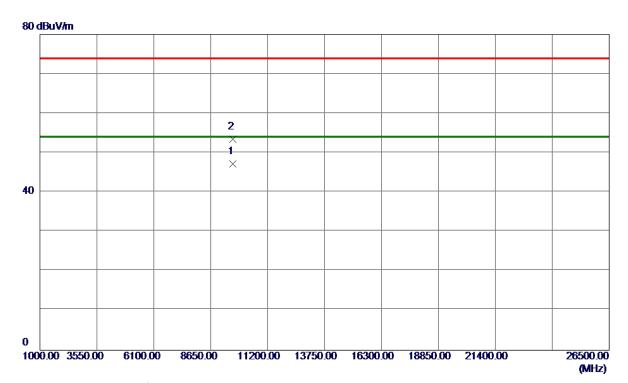
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2387.0000	30. 36	33.05	63.41	74.00	-10.59	Peak	
2	2387.0000	20.08	33. 05	53. 13	<b>54.00</b>	-0.87	AVG	
3	2390. 0000	31.08	33.06	64. 14	74.00	-9.86	Peak	
4	2390. 0000	19. 19	33. 06	52. 25	54.00	-1.75	AVG	
5 *	2411. 0000	74.70	33. 14	107.84	54.00	53.84	AVG	No Limit
6	2411. 6000	77.40	33. 14	110. 54	74.00	36. 54	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 47 of 159





### **Vertical**



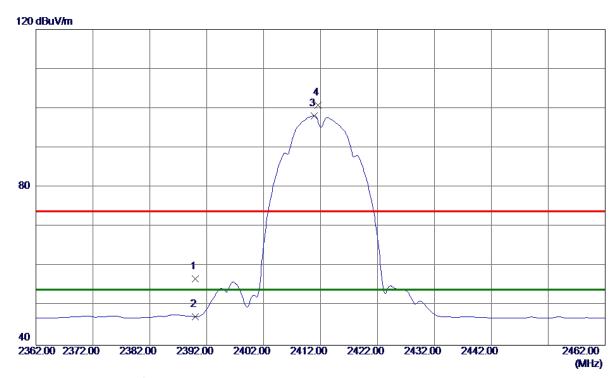
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9647. 9440	32. 11	15. 10	47. 21	54.00	-6. 79	AVG	
2	9647. 9900	38. 40	15. 10	53. 50	74.00	-20. 50	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 48 of 159





#### Horizontal



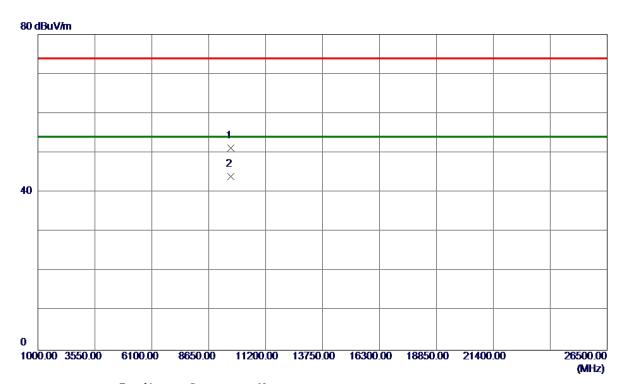
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.80	33.06	56.86	74.00	-17.14	Peak	
2	2390.0000	14. 10	33.06	47. 16	54.00	-6.84	AVG	
3 *	2410.9000	65.02	33. 13	98. 15	54.00	44. 15	AVG	No Limit
4	2411.6000	67.71	33. 14	100.85	74.00	26.85	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 49 of 159





#### Horizontal



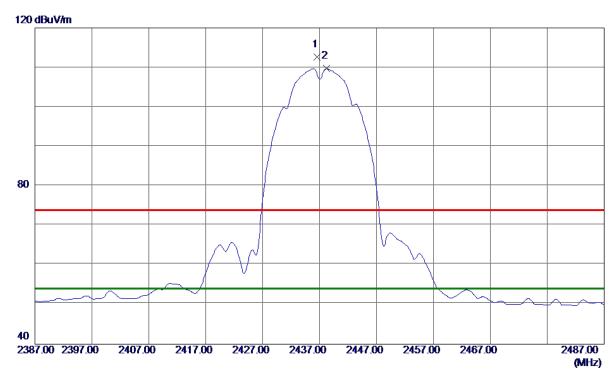
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9647. 9000	36. 07	<b>15. 10</b>	51. 17	74.00	-22.83	Peak	
2 *	9647. 9260	28. 92	15. 10	44.02	54.00	-9. 98	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 50 of 159





# Vertical



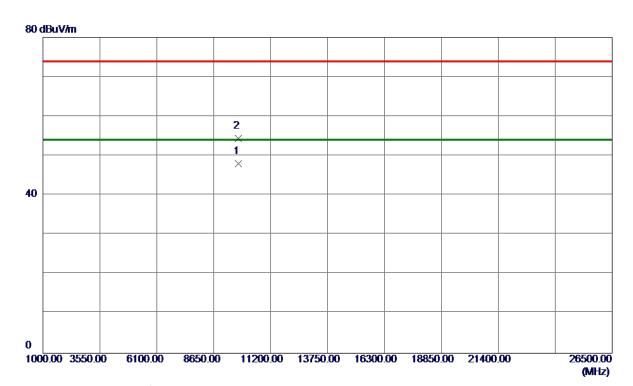
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.6000	79. 34	33. 23	112. 57	74.00	38. 57	Peak	No Limit
2 *	2438. 2000	76. 46	33. 24	109.70	54.00	<b>55.70</b>	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 51 of 159





### **Vertical**



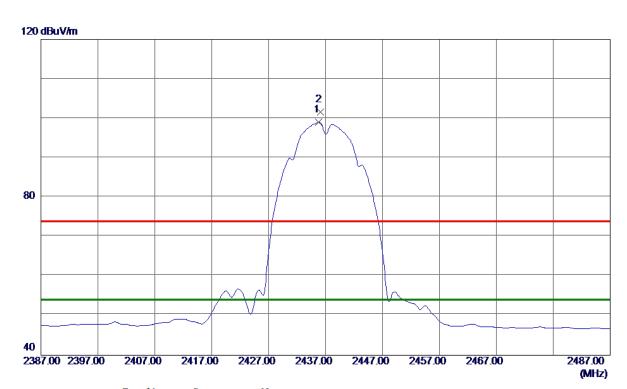
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9747. 9740	32. 78	15. 17	47.95	54.00	-6. 05	AVG	
2	9748. 1360	39. 21	15. 17	54.38	74.00	-19.62	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 52 of 159





#### Horizontal



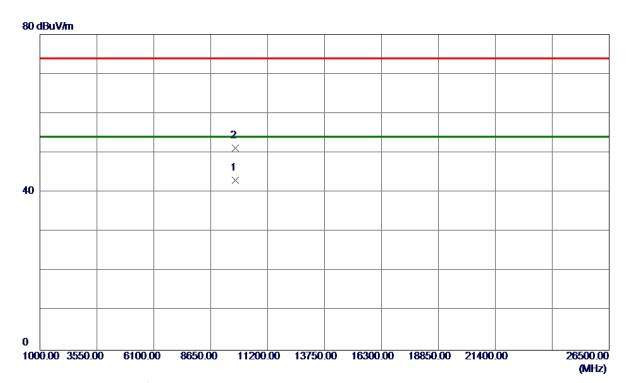
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.8000	65. 75	33. 23	98. 98	54.00	44.98	AVG	No Limit
2	2436. 1000	68. 42	33. 23	101.65	74.00	27.65	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 53 of 159





#### Horizontal



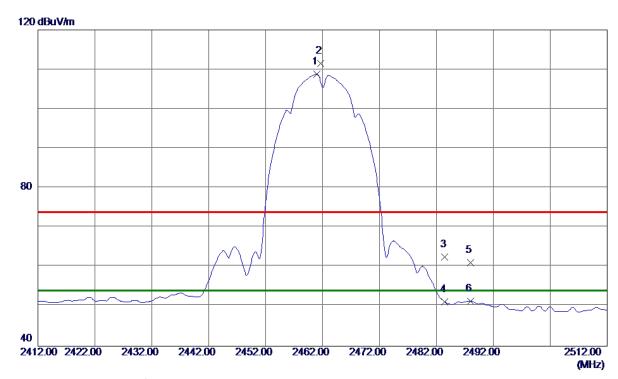
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9747.9700	27.82	15. 17	42.99	54.00	-11.01	AVG	
2	9748. 0300	36. 08	15. 17	51. 25	74.00	-22.75	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 54 of 159





# Vertical



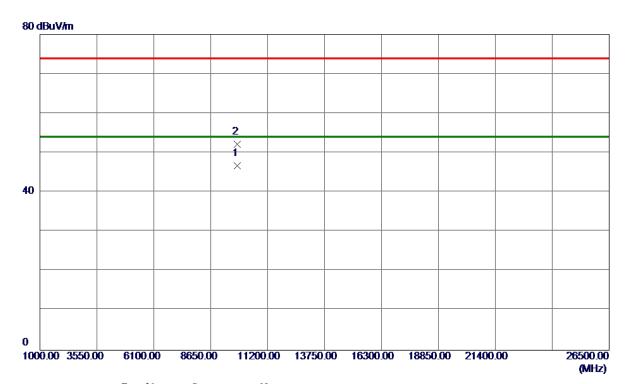
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.0000	<b>75. 50</b>	33. 32	108.82	54.00	54.82	AVG	No Limit
2	2461.7000	78. 25	33. 33	111. 58	74.00	37. 58	Peak	No Limit
3	2483. 5000	29. 13	33.41	62. 54	74.00	-11.46	Peak	
4	2483. 5000	17.73	33.41	51. 14	54.00	-2.86	AVG	
5	2488. 0000	27.64	33. 42	61.06	74.00	-12.94	Peak	
6	2488. 0000	17. 98	33. 42	51. 40	54.00	-2.60	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 55 of 159





### **Vertical**



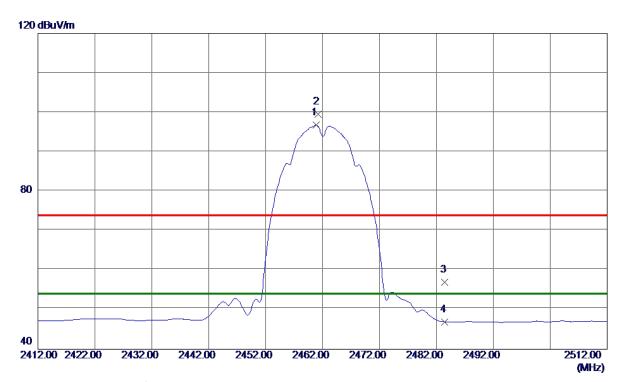
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9847.9500	31.45	15. 25	46.70	54.00	-7. 30	AVG	
2	9848. 0439	36. 86	15. 25	52. 11	74.00	-21.89	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 56 of 159





#### Horizontal



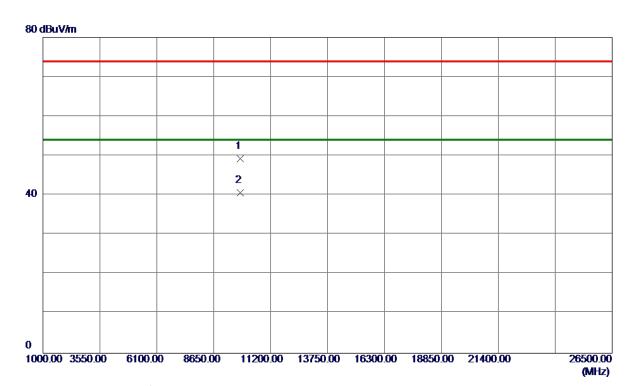
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.9000	63.42	33. 32	96.74	54.00	42.74	AVG	No Limit
2	2461. 2000	66. 21	33. 32	99. 53	74.00	25. 53	Peak	No Limit
3	2483. 5000	23.61	33.41	<b>57.02</b>	74.00	-16. 98	Peak	
4	2483. 5000	13. 53	33. 41	46. 94	54.00	-7.06	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 57 of 159





#### Horizontal



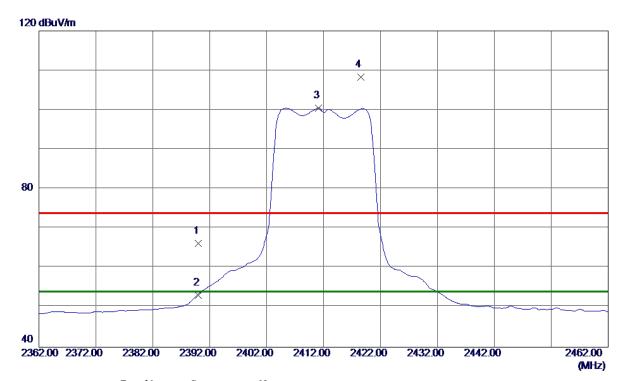
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9847.8200	34.06	15. 25	49. 31	74.00	-24.69	Peak	
2 *	9847. 9349	25. 38	15. 25	40.63	54.00	-13. 37	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 58 of 159





# **Vertical**



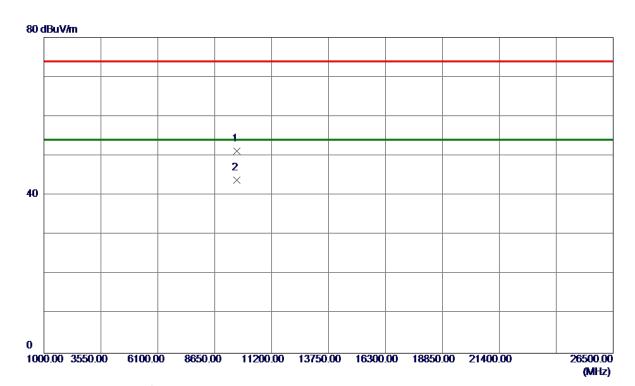
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	33. 19	33.06	66. 25	74.00	-7. 75	Peak	
2	2390.0000	20. 07	33.06	53. 13	54.00	-0.87	AVG	
3 *	2411. 1000	67. 33	33. 14	100.47	54.00	46. 47	AVG	No Limit
4	2418. 5000	75. 15	33. 16	108. 31	74.00	34.31	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 59 of 159





### **Vertical**



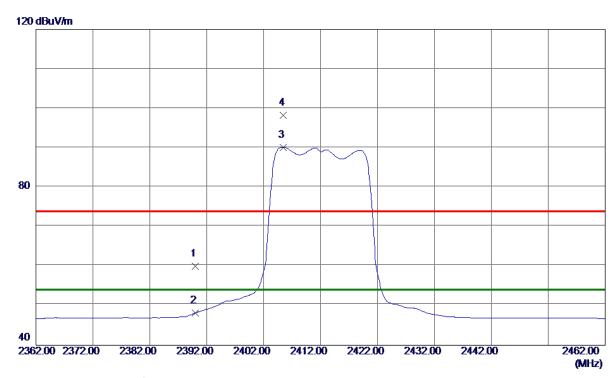
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9647.7280	36. 15	<b>15. 10</b>	51. 25	74.00	-22.75	Peak	
2 *	9647. 9420	28. 75	15. 10	43. 85	54.00	-10. 15	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 60 of 159





#### Horizontal



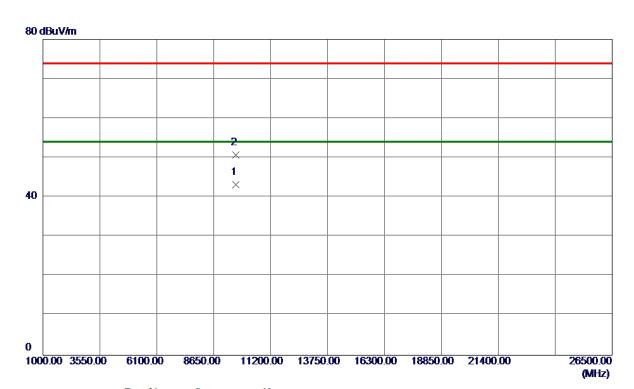
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26. 97	33. 06	60. 03	74.00	-13.97	Peak	
2	2390.0000	15. 10	33. 06	48. 16	54.00	-5.84	AVG	
3 *	2405. 4000	57.02	33. 11	90. 13	54.00	36. 13	AVG	No Limit
4	2405. 5000	65.08	33. 11	98. 19	74.00	24. 19	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 61 of 159





#### Horizontal



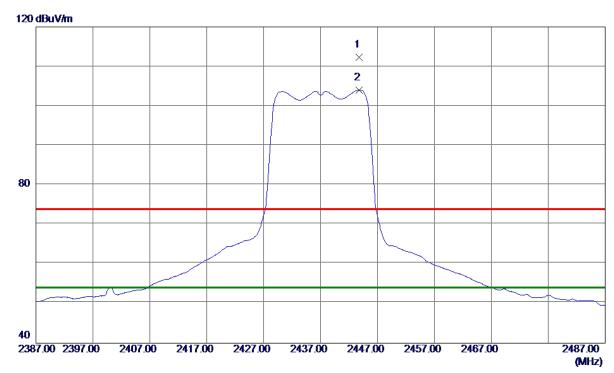
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9648. 0000	28. 04	<b>15. 10</b>	43. 14	54.00	-10.86	AVG	
2	9647.8500	35. 65	15. 10	<b>50</b> . 75	74.00	-23. 25	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 62 of 159





# Vertical



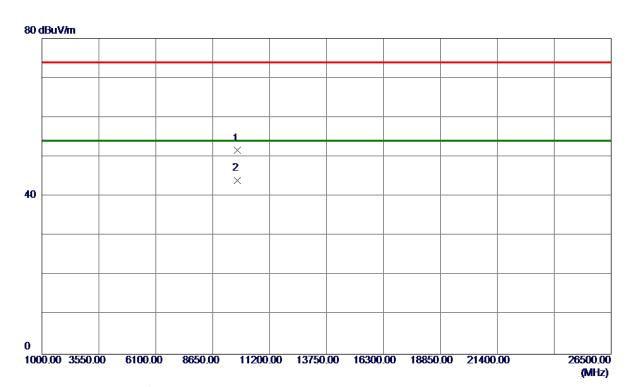
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2443.8000	79. 01	33. 26	112. 27	74.00	38. 27	Peak	No Limit
2 *	2443.8000	70.76	33. 26	104.02	54.00	<b>50.02</b>	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 63 of 159





### **Vertical**



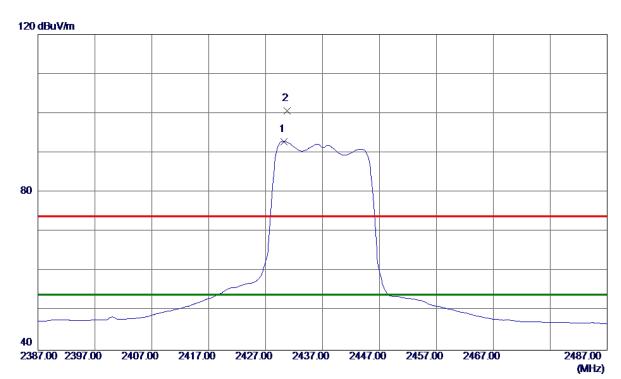
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9747.8620	36. 43	15. 17	51.60	74.00	-22.40	Peak	
2 *	9747. 9960	28. 77	15. 17	43. 94	54.00	-10.06	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 64 of 159





#### Horizontal



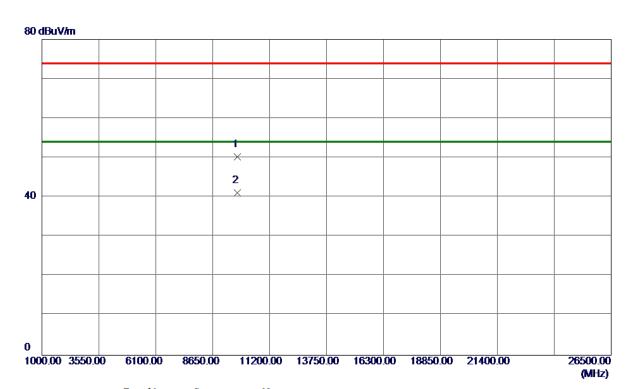
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 2000	59. 67	33. 21	92.88	54.00	38.88	AVG	No Limit
2	2430, 8000	67.40	33. 21	100.61	74.00	26, 61	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 65 of 159





#### Horizontal



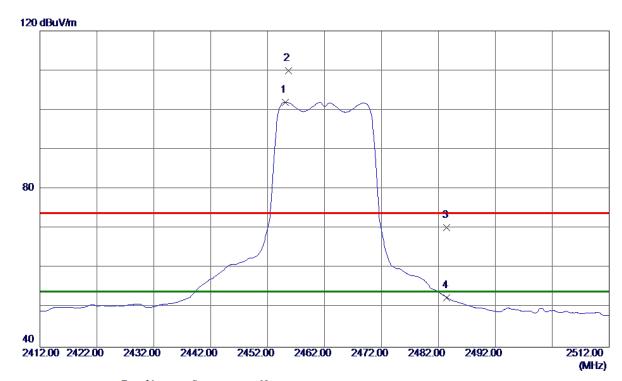
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9747.6350	35. 09	15. 17	50. 26	74.00	-23.74	Peak	
2 *	9747.8800	25. 98	15. 17	41. 15	54.00	-12.85	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 66 of 159





# Vertical



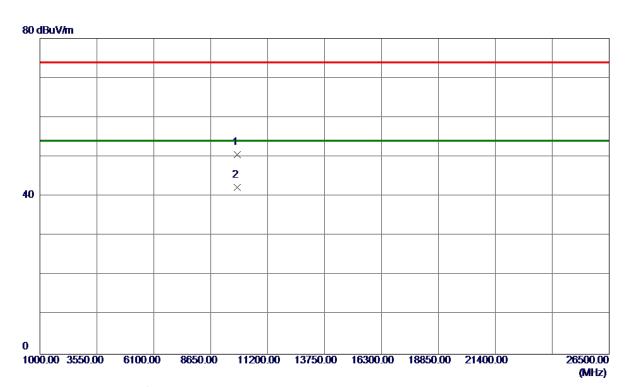
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455. 1000	68. 64	33. 30	101.94	54.00	47.94	AVG	No Limit
2	2455. 7000	76. 67	33. 30	109. 97	74.00	35. 97	Peak	No Limit
3	2483. 5000	36. 88	33.41	70. 29	74.00	-3.71	Peak	
4	2483. 5000	19. 13	33. 41	52. 54	54.00	-1.46	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 67 of 159





### **Vertical**



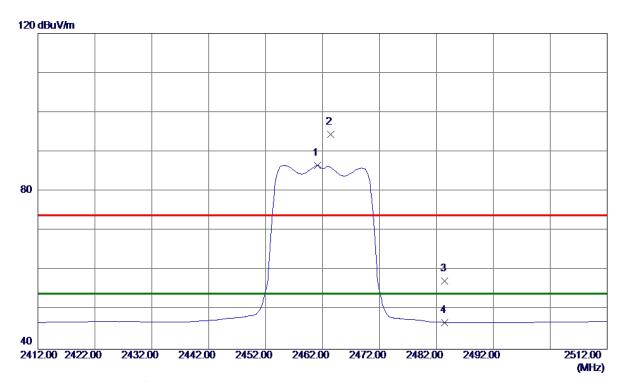
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9847. 9360	35. 31	15. 25	50. 56	74.00	-23.44	Peak	
2 *	9848. 0000	26. 92	15. 25	42. 17	54.00	-11.83	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 68 of 159





#### Horizontal



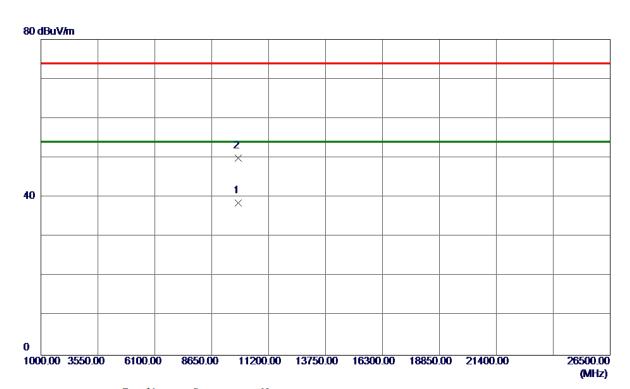
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461. 1000	53. 22	33. 32	86. 54	54.00	32. 54	AVG	No Limit
2	2463. 4000	61.02	33. 33	94.35	74.00	20.35	Peak	No Limit
3	2483. 5000	23.92	33.41	57. 33	74.00	-16.67	Peak	
4	2483. 5000	13. 36	33. 41	46.77	54.00	-7. 23	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 69 of 159





#### Horizontal



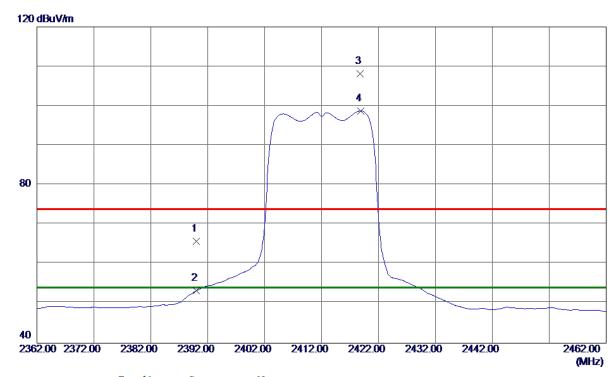
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9847. 9250	23. 33	15. 25	38. 58	54.00	-15.42	AVG	
2	9847. 9400	34.74	15. 25	49. 99	74.00	-24.01	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 70 of 159





# Vertical



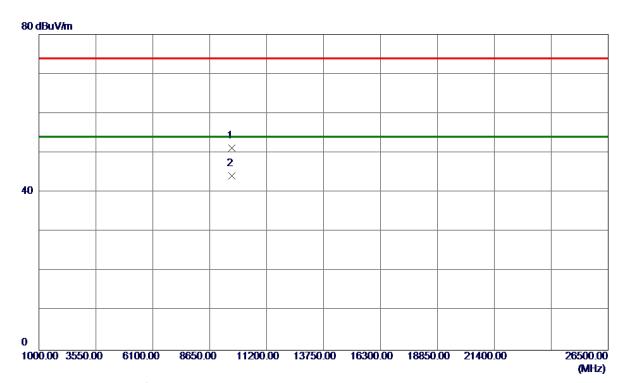
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32. 66	33. 06	65. 72	74.00	-8. 28	Peak	
2	2390.0000	20. 17	33. 06	53. 23	54.00	-0.77	AVG	
3	2418.8000	75. 08	33. 16	108. 24	74.00	34.24	Peak	No Limit
4 *	2418. 9000	65. 57	33. 16	98. 73	54.00	44.73	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 71 of 159





### Vertical



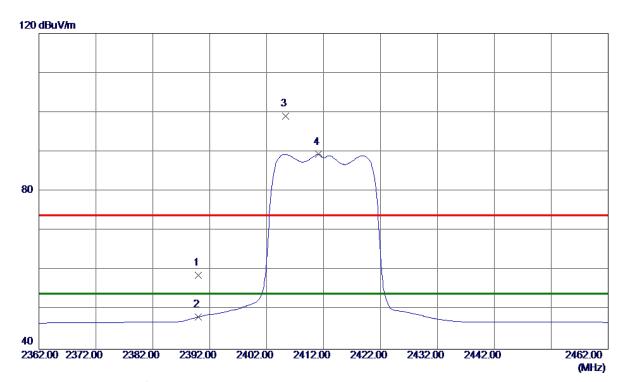
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9647.6580	36. 13	15. 10	51. 23	74.00	-22.77	Peak	
2 *	9647. 9580	29. 09	15. 10	44. 19	54.00	-9.81	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 72 of 159





#### Horizontal



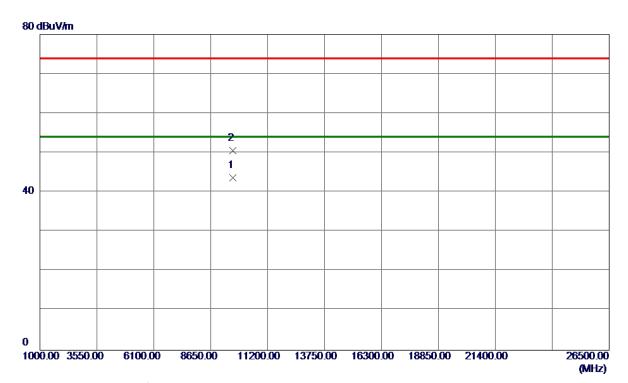
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 63	33.06	58. 69	74.00	-15. 31	Peak	
2	2390.0000	<b>15. 10</b>	33.06	48. 16	54.00	-5.84	AVG	
3	2405. 3000	66. 00	33. 11	99. 11	74.00	25. 11	Peak	No Limit
4 *	2411. 1000	56. 22	33. 14	89. 36	54.00	35. 36	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 73 of 159





#### Horizontal



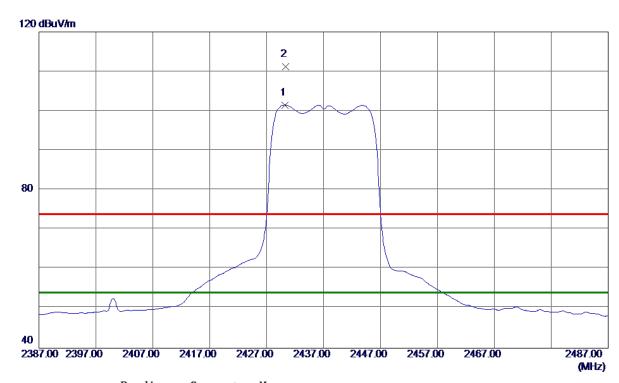
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9647.9750	28. 56	15. 10	43.66	54.00	-10.34	AVG	
2	9647. 9800	35. 53	15. 10	50.63	74.00	-23. 37	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 74 of 159





#### Vertical



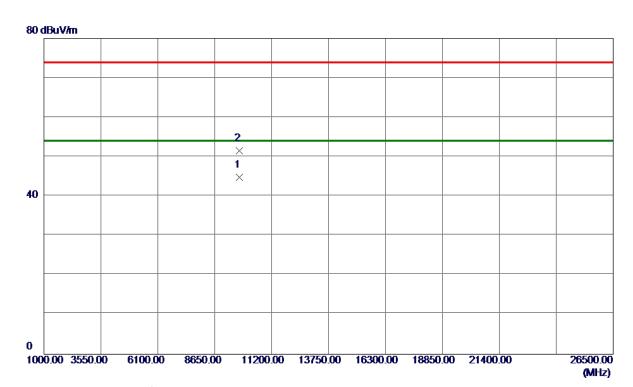
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 2000	68. 31	33. 21	101. 52	54.00	47.52	AVG	No Limit
2	2430. 3000	77. 98	33. 21	111. 19	74.00	37. 19	Peak	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 75 of 159





#### Vertical



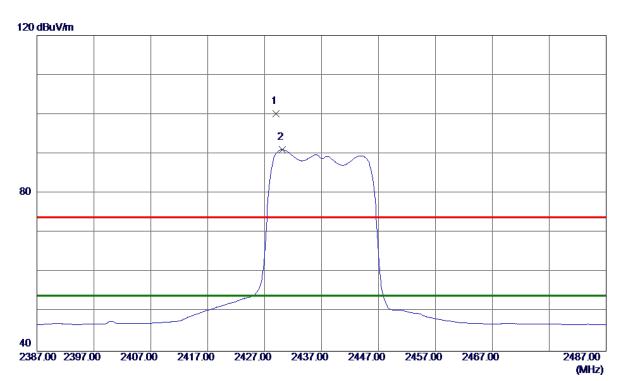
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9747. 9740	29. 57	15. 17	44.74	<b>54.00</b>	-9. 26	AVG	
2	9748. 0340	36. 35	15. 17	51. 52	74.00	-22.48	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 76 of 159





#### Horizontal



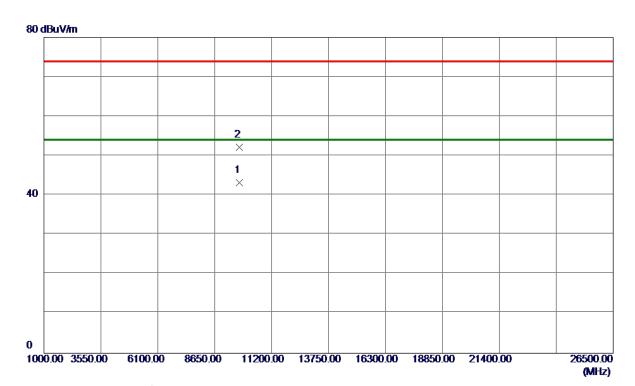
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2429. 0000	67. 04	33. 20	100. 24	74.00	26. 24	Peak	No Limit
2 *	2430, 1000	57. 81	33, 21	91. 02	54.00	37. 02	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 77 of 159





#### Horizontal



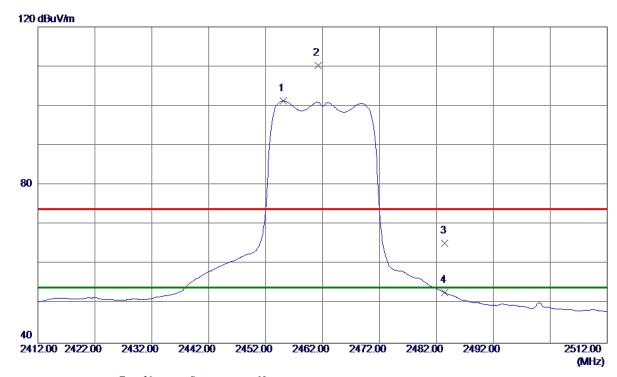
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9747. 9050	28. 04	15. 17	43. 21	54.00	-10.79	AVG	
2	9748. 0950	36. 93	15. 17	52. 10	74.00	-21. 90	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 78 of 159





#### Vertical



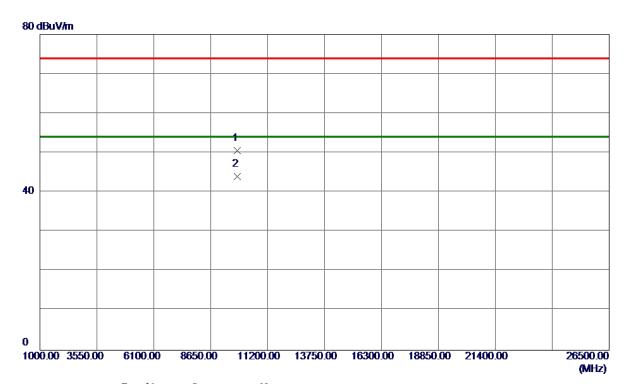
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455. 1000	67. 95	33. 30	101. 25	54.00	47. 25	AVG	No Limit
2	2461. 2000	76. 99	33. 32	110.31	74.00	36. 31	Peak	No Limit
3	2483. 5000	31.80	33.41	65. 21	74.00	-8.79	Peak	
4	2483. 5000	19. 32	33. 41	52.73	54.00	-1.27	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 79 of 159





#### Vertical



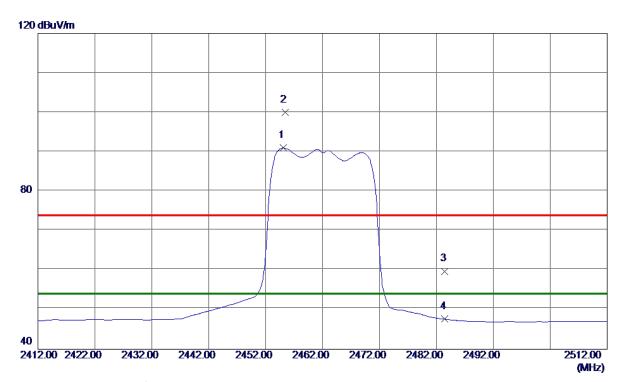
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9847.8840	35. 29	15. 25	50. 54	74.00	-23.46	Peak	
2 *	9847. 9640	28. 80	15. 25	44.05	54.00	-9. 95	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 80 of 159





#### Horizontal



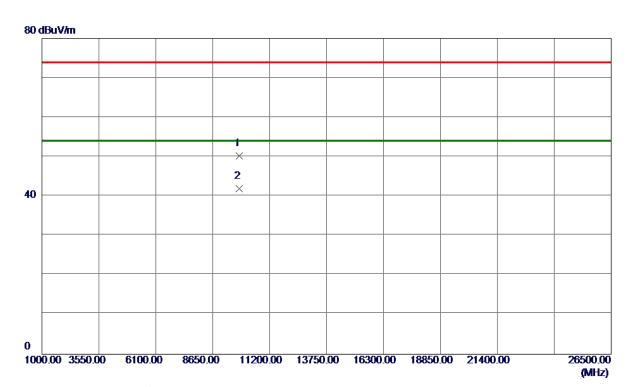
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455. 1000	57.67	33. 30	90. 97	<b>54.00</b>	36. 97	AVG	No Limit
2	2455. 4000	66.70	33. 30	100.00	74.00	26.00	Peak	No Limit
3	2483. 5000	26. 35	33.41	59. 76	74.00	-14.24	Peak	
4	2483. 5000	14. 20	33.41	47.61	54.00	-6. 39	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 81 of 159





#### Horizontal



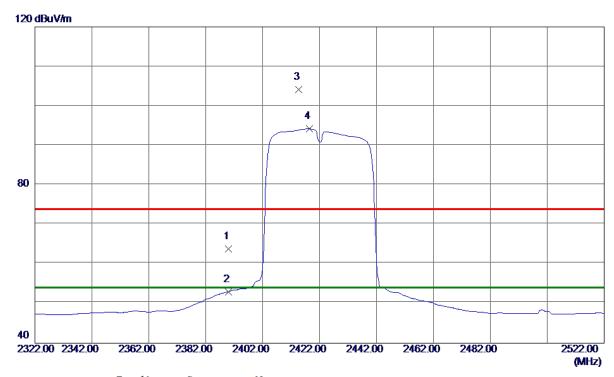
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9847.8450	34.92	15. 25	50. 17	74.00	-23.83	Peak	
2 *	9847. 9200	26. 60	15. 25	41.85	54.00	-12. 15	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 82 of 159





#### Vertical



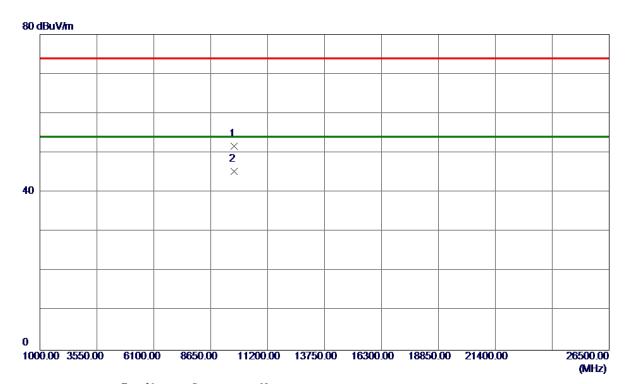
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	30.83	33. 06	63.89	74.00	-10. 11	Peak	
2	2390.0000	19.86	33. 06	52. 92	54.00	-1.08	AVG	
3	2414.6000	70. 98	33. 15	104. 13	74.00	30. 13	Peak	No Limit
4 *	2418. 4000	61. 07	33. 16	94. 23	54.00	40. 23	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 83 of 159





#### Vertical



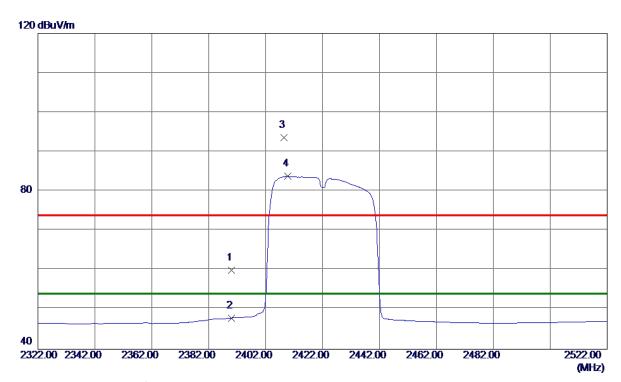
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9687.8339	36. 59	15. 13	51.72	74.00	-22. 28	Peak	
2 *	9687. 9040	30. 08	15. 13	45. 21	54.00	-8. 79	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 84 of 159





#### Horizontal



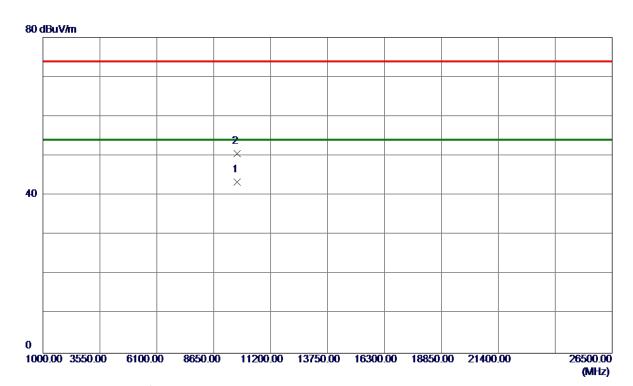
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26. 91	33.06	59. 97	74.00	-14.03	Peak	
2	2390.0000	14.82	33.06	47.88	54.00	-6. 12	AVG	
3	2408. 4000	60. 49	33. 13	93. 62	74.00	19.62	Peak	No Limit
4 *	2409.8000	50.66	33. 13	83. 79	54.00	29. 79	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 85 of 159





#### Horizontal



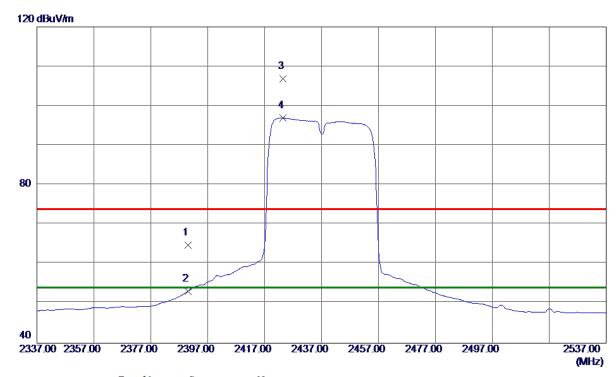
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9687.9300	28. 17	15. 13	43. 30	54.00	-10.70	AVG	
2	9687.8000	35. 48	15. 13	50. 61	74.00	-23. 39	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 86 of 159





#### Vertical



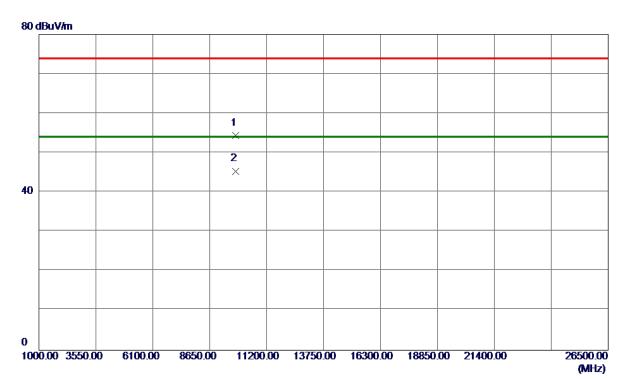
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	31.73	33.06	64.79	74.00	-9. 21	Peak	
2	2390.0000	20.04	33.06	53. 10	54.00	-0.90	AVG	
3	2423. 4000	73. 70	33. 18	106.88	74.00	32.88	Peak	No Limit
4 *	2423. 4000	63. 81	33. 18	96. 99	54.00	42.99	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 87 of 159





#### **Vertical**



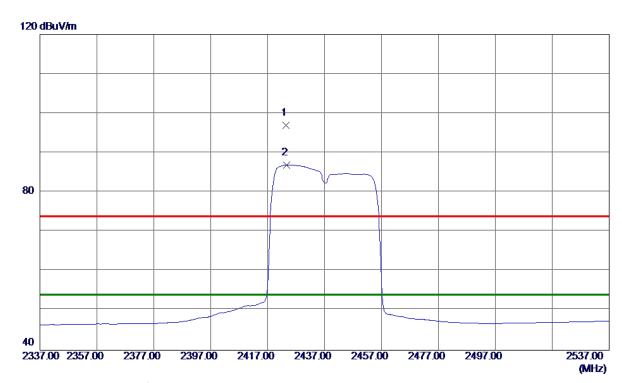
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9808. 0060	39. 11	15. 22	54. 33	74.00	-19.67	Peak	
2 *	9808. 0119	30. 14	15. 22	45. 36	54.00	-8. 64	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 88 of 159





#### Horizontal



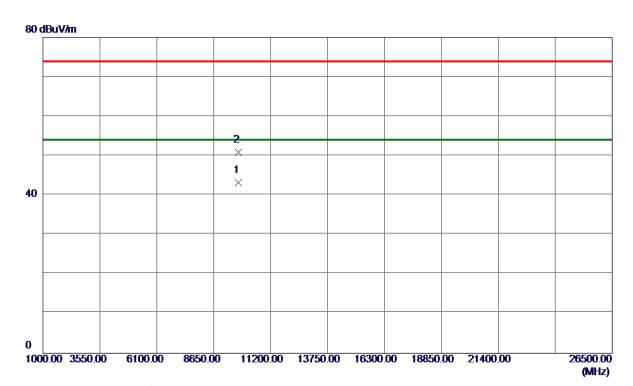
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2423.4000	63.80	33. 18	96. 98	74.00	22. 98	Peak	No Limit
2 *	2423. 6000	53. 72	33. 18	86. 90	54.00	32. 90	AVG	No Limit

Report No.: BTL-FCCP-1-1711C143 Page 89 of 159





#### Horizontal



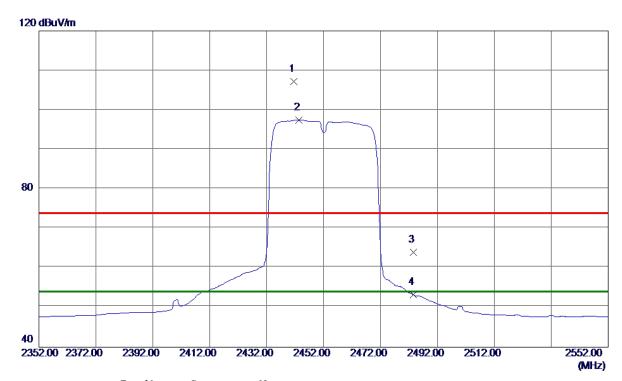
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9747.9750	28. 03	15. 17	43. 20	54.00	-10.80	AVG	
2	9748. 0950	35. 77	15. 17	50. 94	74.00	-23.06	Peak	

Report No.: BTL-FCCP-1-1711C143 Page 90 of 159





#### Vertical



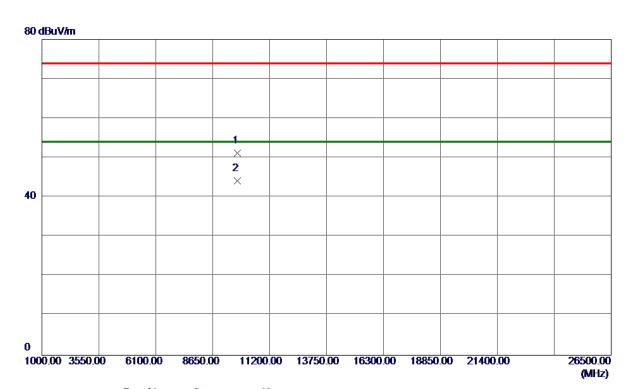
No	. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441. 6000	73.89	33. 25	107. 14	74.00	33. 14	Peak	No Limit
2	* 2443.4000	64. 22	33. 26	97.48	54.00	43.48	AVG	No Limit
3	2483. 5000	30.61	33.41	64.02	74.00	-9. 98	Peak	
4	2483. 5000	19.84	33.41	53. 25	54.00	-0.75	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 91 of 159





#### Vertical



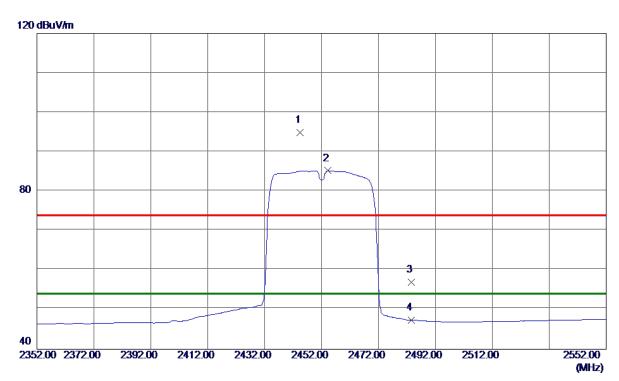
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9747. 9560	35. 97	15. 17	51. 14	74.00	-22.86	Peak	
2 *	9747. 9920	28. 97	15. 17	44. 14	54.00	-9.86	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 92 of 159





#### Horizontal



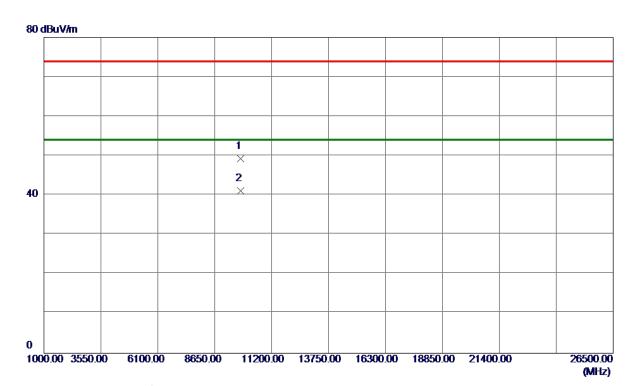
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2444. 4000	61. 58	33. 26	94.84	74.00	20.84	Peak	No Limit
2 *	2454. 2000	51. 90	33. 30	85. 20	54.00	31. 20	AVG	No Limit
3	2483. 5000	23. 57	33. 41	56. 98	74.00	-17.02	Peak	
4	2483. 5000	13. 90	33. 41	47.31	54.00	-6. 69	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 93 of 159





#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9807.8400	34. 12	15. 22	49. 34	74.00	-24.66	Peak	
2 *	9808. 0250	25. 90	15. 22	41. 12	54.00	-12.88	AVG	

Report No.: BTL-FCCP-1-1711C143 Page 94 of 159





APPENDIX E - BANDWIDTH

Report No.: BTL-FCCP-1-1711C143 Page 95 of 159

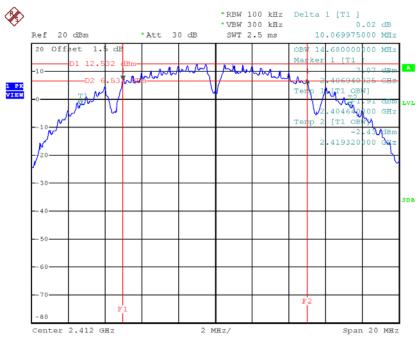




## Test Mode: TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.07	14.68	500	Complies
2437	10.14	15.00	500	Complies
2462	10.10	14.80	500	Complies

#### TX CH01

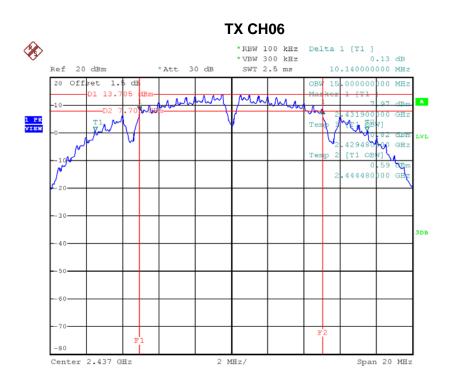


Date: 5.DEC.2017 18:19:44

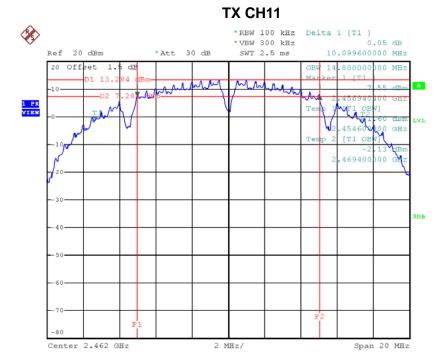
Report No.: BTL-FCCP-1-1711C143 Page 96 of 159







Date: 5.DEC.2017 18:21:04



Date: 5.DEC.2017 18:22:21

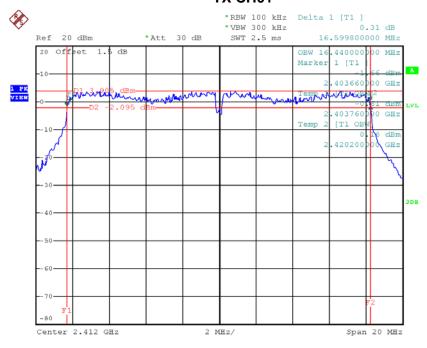




## Test Mode: TX G Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.60	16.44	500	Complies
2437	16.59	16.48	500	Complies
2462	16.62	16.44	500	Complies

#### TX CH01

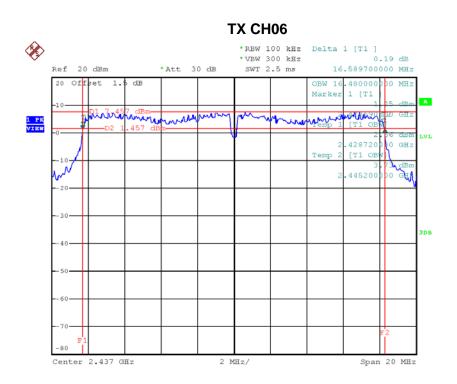


Date: 5.DEC.2017 18:23:48

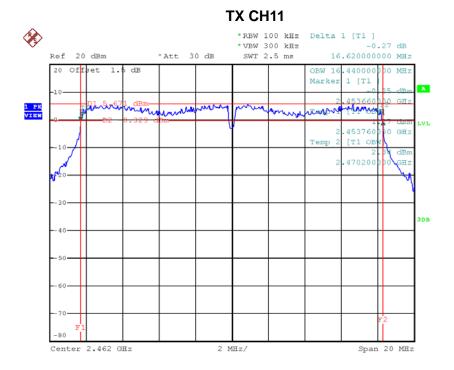
Report No.: BTL-FCCP-1-1711C143 Page 98 of 159







Date: 5.DEC.2017 18:25:43



Date: 5.DEC.2017 18:26:49

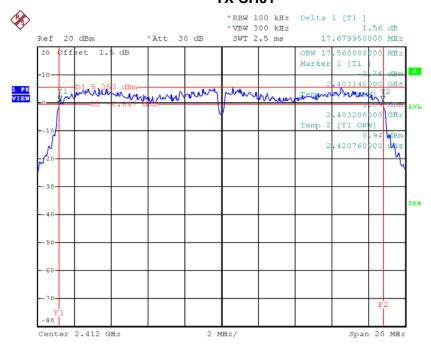




## Test Mode: TX N-20MHz Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.68	17.56	500	Complies
2437	17.65	17.56	500	Complies
2462	17.67	17.56	500	Complies

### TX CH01

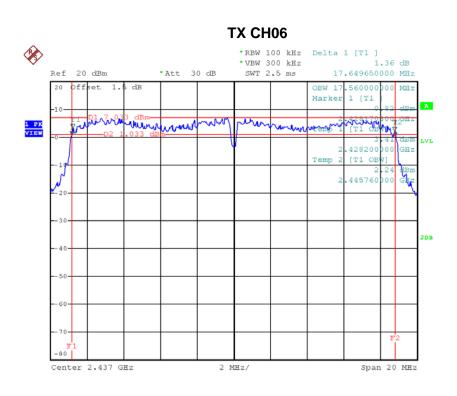


Date: 5.DEC.2017 18:28:36

Report No.: BTL-FCCP-1-1711C143 Page 100 of 159

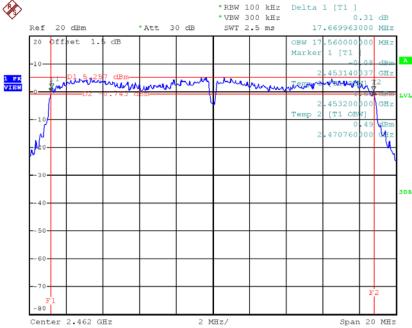






Date: 5.DEC.2017 18:29:51

# TX CH11



Date: 5.DEC.2017 18:31:03

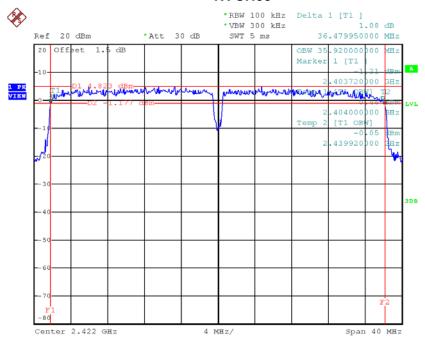




## Test Mode: TX N-40MHz Mode\_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.48	35.92	500	Complies
2437	36.44	36.08	500	Complies
2452	36.52	35.92	500	Complies

#### **TX CH03**

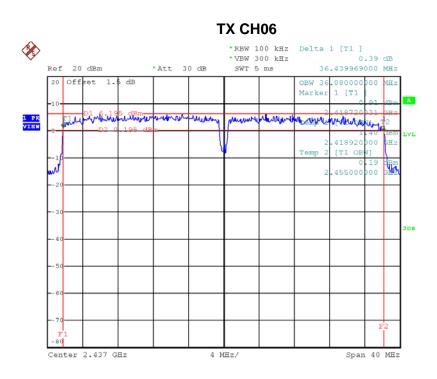


Date: 5.DEC.2017 18:32:42

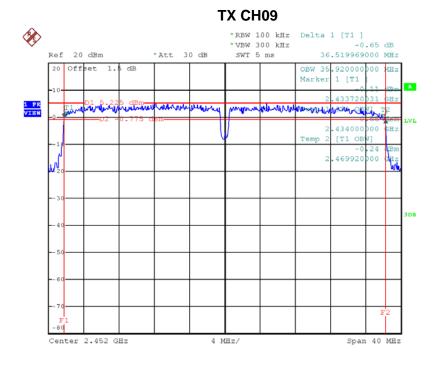
Report No.: BTL-FCCP-1-1711C143 Page 102 of 159







Date: 5.DEC.2017 18:34:15



Date: 5.DEC.2017 18:35:47

Report No.: BTL-FCCP-1-1711C143 Page 103 of 159





APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Report No.: BTL-FCCP-1-1711C143 Page 104 of 159





	Test Mode :TX B Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result		
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Resuit		
2412	24.49	0.28	30.00	1.00	Complies		
2437	25.54	0.36	30.00	1.00	Complies		
2462	25.23	0.33	30.00	1.00	Complies		

Test Mode :TX G Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Resuit	
2412	25.92	0.39	30.00	1.00	Complies	
2437	26.43	0.44	30.00	1.00	Complies	
2462	25.84	0.38	30.00	1.00	Complies	

Report No.: BTL-FCCP-1-1711C143 Page 105 of 159





Test Mode :TX N20 Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	26.01	0.40	30.00	1.00	Complies	
2437	26.31	0.43	30.00	1.00	Complies	
2462	25.46	0.35	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_ANT 2						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	24.45	0.28	30.00	1.00	Complies	
2437	26.62	0.46	30.00	1.00	Complies	
2462	25.58	0.36	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_Total						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	28.31	0.68	30.00	1.00	Complies	
2437	29.48	0.89	30.00	1.00	Complies	
2462	28.53	0.71	30.00	1.00	Complies	

Report No.: BTL-FCCP-1-1711C143 Page 106 of 159





Test Mode :TX N40 Mode_CH03/06/09_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2422	25.95	0.39	30.00	1.00	Complies	
2437	25.86	0.39	30.00	1.00	Complies	
2452	25.75	0.38	30.00	1.00	Complies	

Test Mode :TX N40 Mode_CH03/06/09_ANT 2						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Resuit	
2422	21.84	0.15	30.00	1.00	Complies	
2437	25.03	0.32	30.00	1.00	Complies	
2452	24.48	0.28	30.00	1.00	Complies	

Test Mode :TX N40 Mode_CH03/06/09_Total						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Resuit	
2422	27.37	0.55	30.00	1.00	Complies	
2437	28.48	0.70	30.00	1.00	Complies	
2452	28.17	0.66	30.00	1.00	Complies	

Report No.: BTL-FCCP-1-1711C143 Page 107 of 159