

### FCC Radio Test Report FCC ID: W59XAP310

This report concerns (check one): ⊠Original Grant □Class II Change

Project No. : 1501C010 : Standard Power Wireless 300N Low Profile Access Equipment **Point** : XAP-310 Model Name Applicant : Luxul Wireless : 14203 Minuteman Drive, Suite 201, Draper, UT USA Address Date of Receipt : Jan. 04, 2015 **Date of Test** : Jan. 04, 2015 ~ Jan. 16, 2015 Issued Date : Jan. 23, 2015 Tested by : BTL Inc. **Testing Engineer Technical Manager** (Leo Hung)

### BTL INC.

**Authorized Signatory** 

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

(Steven Lu)

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

Report No.: BTL-FCCP-1-1501C010 Page 1 of 143



### **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 the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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### 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-1-1501C010 Page 2 of 143



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	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TES	TED 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 4.1.3 DEVIATION FROM TEST STANDARD	14 14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.1.6 EUT TEST CONDITIONS	15
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	16 16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS 4.2.6 EUT TEST CONDITIONS	18 18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	19
4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)	19
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	19
5 . BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES	20
5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD	20 20
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

Report No.: BTL-FCCP-1-1501C010 Page 3 of 143



Table of Contents	Page
6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST 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 7. ANTENNA CONDUCTED SPURIOUS EMISSION	21 21 21 21 21 21 21 21
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 22
8 . POWER SPECTRAL DENSITY TEST  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 23 23
9 . MEASUREMENT INSTRUMENTS LIST	24
10 . EUT TEST PHOTO	26
ATTACHMENT A - CONDUCTED EMISSION ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	30 33
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	35
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	42
ATTACHMENT E - BANDWIDTH  ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	91 100
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	104
ATTACHMENT H - POWER SPECTRAL DENSITY	129

Report No.: BTL-FCCP-1-1501C010 Page 4 of 143



### **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1501C010	Original Issue.	Jan. 23, 2015

Report No.: BTL-FCCP-1-1501C010 Page 5 of 143



### 1. CERTIFICATION

Equipment : Standard Power Wireless 300N Low Profile Access Point

Brand Name: LUXUL
Model Name: XAP-310
Applicant: Luxul Wireless
Manufacturer: Luxul Wireless

Address : 14203 Minuteman Drive, Suite 201, Draper, UT USA

Date of Test : Jan. 04, 2015 ~ Jan. 16, 2015 Test Sample : ENGINEERING SAMPLE

Standard(s): FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009

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-1-1501C010) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: BTL-FCCP-1-1501C010 Page 6 of 143



### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C: 2013					
Standard(s) Section FCC	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			
15.209/15.205	Transmitter Radiated Emissions	PASS			

### NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

Report No.: BTL-FCCP-1-1501C010 Page 7 of 143



### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792 BTL's test firm number for FCC: 319330

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

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CD03	CISEIX	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Report No.: BTL-FCCP-1-1501C010 Page 8 of 143



### 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Standard Power Wireless 300N Low Profile Access Point			
Brand Name	LUXUL	LUXUL		
Model Name	XAP-310			
Model Difference	N/A			
	Operation Frequency	2412~2462 MHz		
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
	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: 19.72 dBm 802.11g: 25.38 dBm 802.11n(20MHz): 26.96 dBm 802.11n(40MHz): 26.86 dBm		
Power Source	Supplied from PoE Brand/Model: LUXUL/XPE-1500			
Power Rating	I/P: AC 100-240V 0.6A 50/60Hz O/P: DC 48V 15.4W			

### Note:

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

Report No.: BTL-FCCP-1-1501C010 Page 9 of 143



### 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	LUXUL	50000963	PCB	N/A	3.81	TX/RX
2	LUXUL	50001379	PCB	N/A	3.09	TX/RX

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G**<sub>ANT</sub>, that is Directional gain=3.81.
- (2) ANT 1 was the worst case for 1TX.

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)

Report No.: BTL-FCCP-1-1501C010



### 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	TX MODE

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	TX MODE	

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	

### 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-1-1501C010 Page 11 of 143



### 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		MTool_2.0.1.1	
Frequency (MHz)	2412	2437	2462
802.11b	65	65	65
802.11g	61	65	65
802.11n (20MHz)	55	55	55
Frequency	2422	2437	2452
802.11n (40MHz)	46	55	55

Report No.: BTL-FCCP-1-1501C010 Page 12 of 143



# 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED BUT 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.

14	Clairdad Tima	Camita Cana	l a a aith		Mata	
	_	_	_	_	_	
-	-	-	-	-	-	
цеп	Equipment	IVIII/Brand	Model/Type No.	FCC ID/IC	Series No.	note

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

Report No.: BTL-FCCP-1-1501C010 Page 13 of 143



### 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.	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 equipments 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.

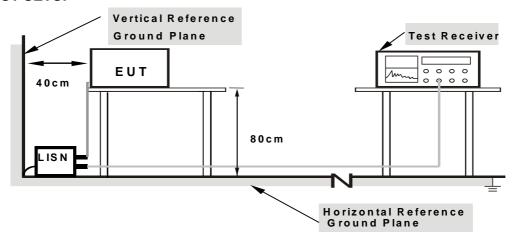
### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

Report No.: BTL-FCCP-1-1501C010 Page 14 of 143



### 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 configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

### **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 Attachment A.

Report No.: BTL-FCCP-1-1501C010 Page 15 of 143



### 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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)	
r requericy (ivil 12)	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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Report No.: BTL-FCCP-1-1501C010 Page 16 of 143



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**

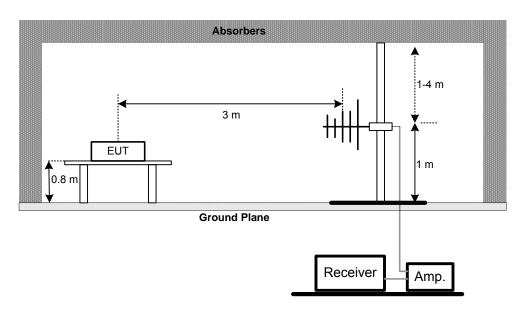
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-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 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

### 4.2.4 TEST SETUP

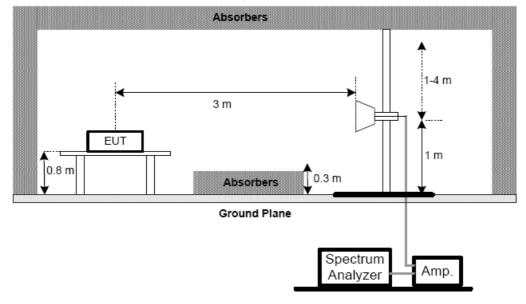
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



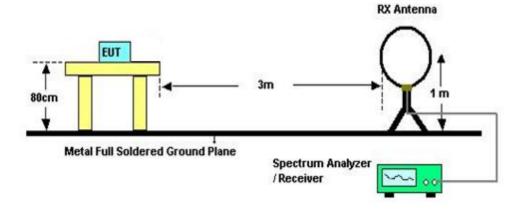
Report No.: BTL-FCCP-1-1501C010 Page 17 of 143



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



### (C) For radiated emissions below 30MHz



### 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

### **4.2.6 EUT TEST CONDITIONS**

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

Report No.: BTL-FCCP-1-1501C010 Page 18 of 143



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

Please refer to the Attachment 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 (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

### 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment 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-1-1501C010 Page 19 of 143



### **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 tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

### **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 Attachment E.

Report No.: BTL-FCCP-1-1501C010 Page 20 of 143



### 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 v03r02.

### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP

EUT	Power Meter

### **6.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

### 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 Attachment F.

Report No.: BTL-FCCP-1-1501C010 Page 21 of 143



### 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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided 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.

### 7.1.2 DEVIATION FROM STANDARD

No deviation.

### 7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

### 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 Attachment G.

Report No.: BTL-FCCP-1-1501C010 Page 22 of 143



### 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit Frequency Rang (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 tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

### **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 Attachment H.

Report No.: BTL-FCCP-1-1501C010 Page 23 of 143



### 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Antenna	ETS	3115	00075789	Mar. 29, 2015
6	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
7	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
8	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
9	Controller	СТ	SC100	N/A	N/A
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Report No.: BTL-FCCP-1-1501C010 Page 24 of 143



	6dB Bandwidth Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

	Peak Output Power Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	May. 29, 2015
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	May. 29, 2015

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

	Power Spectral Density Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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-1-1501C010 Page 25 of 143



### **10. EUT TEST PHOTO**

### **Conducted Measurement Photos**





Report No.: BTL-FCCP-1-1501C010 Page 26 of 143



### **Radiated Measurement Photos**

### 9KHz to 30MHz





Report No.: BTL-FCCP-1-1501C010 Page 27 of 143



### **Radiated Measurement Photos**

### 30MHz to 1000MHz



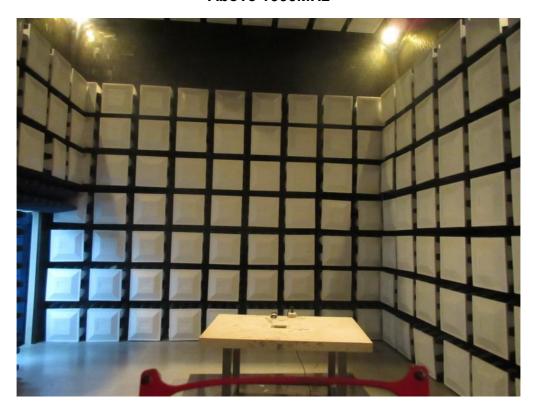


Report No.: BTL-FCCP-1-1501C010 Page 28 of 143



### **Radiated Measurement Photos**

### Above 1000MHz





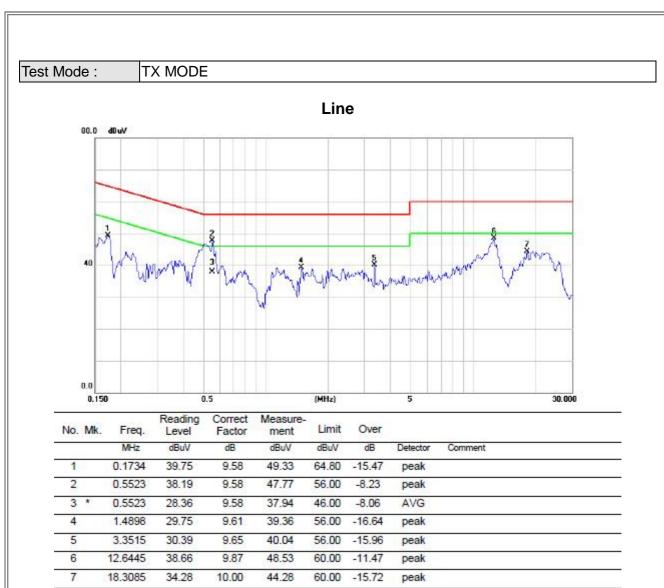
Report No.: BTL-FCCP-1-1501C010 Page 29 of 143



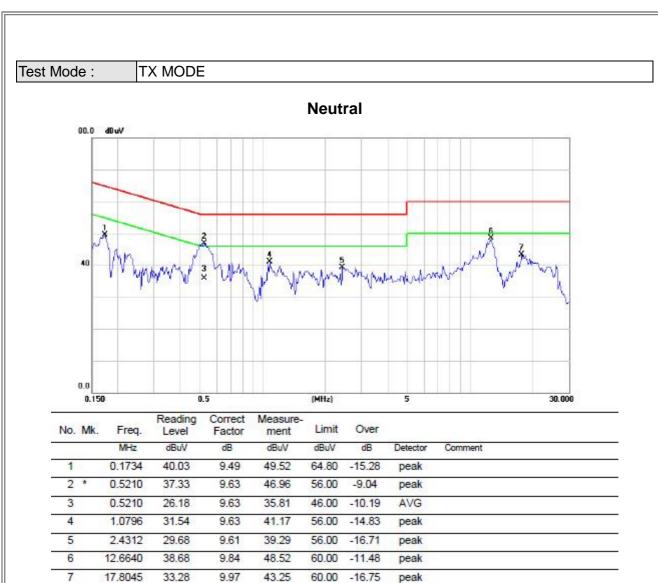
ATTACHMENT A - CONDUCTED EMISSION

Report No.: BTL-FCCP-1-1501C010 Page 30 of 143



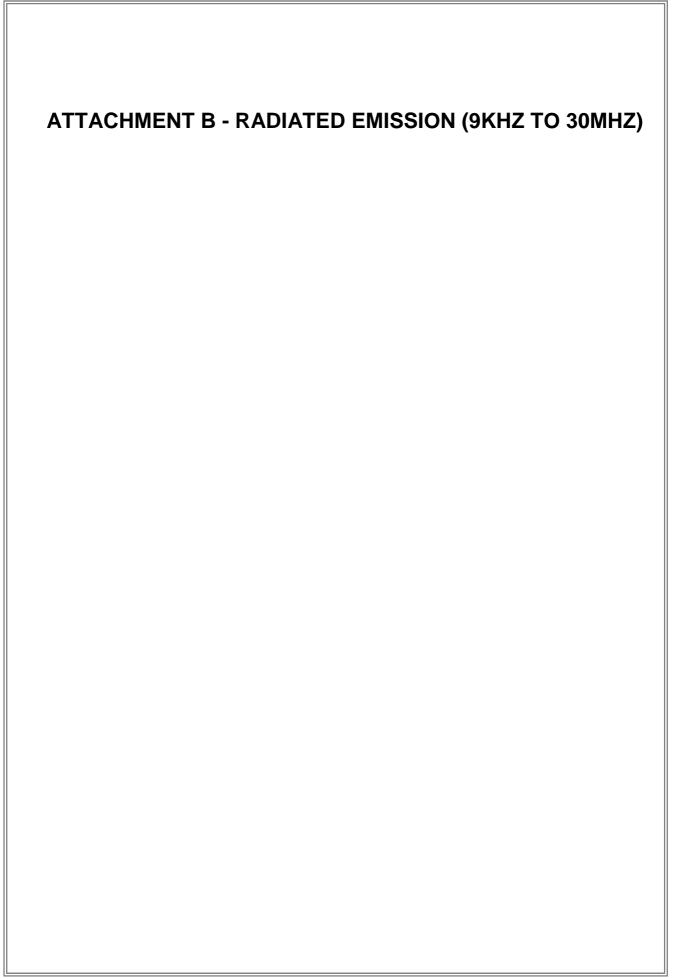






Report No.: BTL-FCCP-1-1501C010





Report No.: BTL-FCCP-1-1501C010 Page 33 of 143



Test Mode: TX Mode 2412MHz

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0069	0°	12.38	25.13	37.51	110.83	-73.32	AVG
0.0069	0°	14.11	25.13	39.24	130.83	-91.59	PEAK
0.0156	0°	5.17	24.58	29.75	103.74	-73.99	AVG
0.0156	0°	7.68	24.58	32.26	123.74	-91.48	PEAK
0.0283	0°	3.72	23.77	27.49	98.57	-71.07	AVG
0.0283	0°	5.47	23.77	29.24	118.57	-89.32	PEAK
0.0349	0°	0.82	23.36	24.18	96.75	-72.57	AVG
0.0349	0°	2.64	23.36	26.00	116.75	-90.75	PEAK
0.4810	0°	30.17	19.85	50.02	73.96	-23.95	QP
1.7620	0°	21.47	19.52	40.99	69.54	-28.55	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0071	90°	12.17	24.30	36.47	130.58	-94.11	AVG
0.0071	90°	14.28	24.30	38.58	150.58	-112.00	PEAK
0.0362	90°	6.27	23.27	29.54	116.43	-86.89	AVG
0.0362	90°	8.11	23.27	31.38	136.43	-105.05	PEAK
0.0439	90°	3.38	22.79	26.17	114.75	-88.59	AVG
0.0439	90°	5.87	22.79	28.66	134.75	-106.10	PEAK
0.0491	90°	0.86	22.46	23.32	113.78	-90.47	AVG
0.0491	90°	2.65	22.46	25.11	133.78	-108.68	PEAK
0.4950	90°	30.27	19.81	50.08	73.71	-23.63	QP
1.8730	90°	21.63	19.51	41.14	69.54	-28.40	QP

Report No.: BTL-FCCP-1-1501C010 Page 34 of 143



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

Report No.: BTL-FCCP-1-1501C010 Page 35 of 143





## Vertical 90.0 48 w//m 40 2 3 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
*	115.3600	49.02	-14.71	34.31	43.50	-9.19	peak	
	169.6800	43.91	-12.78	31.13	43.50	-12.37	peak	
	450.0100	36.84	-8.62	28.22	46.00	-17.78	peak	
	600.3600	35.66	-7.89	27.77	46.00	-18.23	peak	
	670.2000	32.23	-5.06	27.17	46.00	-18.83	peak	
	843.8300	30.31	-3.12	27.19	46.00	-18.81	peak	
	*	MHz	MHz dBuV * 115.3600 49.02 169.6800 43.91 450.0100 36.84 600.3600 35.66 670.2000 32.23	MHz dBuV dB * 115.3600 49.02 -14.71 169.6800 43.91 -12.78 450.0100 36.84 -8.62 600.3600 35.66 -7.89 670.2000 32.23 -5.06	MHz dBuV dB dBuV/m  * 115.3600 49.02 -14.71 34.31 169.6800 43.91 -12.78 31.13 450.0100 36.84 -8.62 28.22 600.3600 35.66 -7.89 27.77 670.2000 32.23 -5.06 27.17	MHz dBuV dB dBuV/m dBuV/m * 115.3600 49.02 -14.71 34.31 43.50 169.6800 43.91 -12.78 31.13 43.50 450.0100 36.84 -8.62 28.22 46.00 600.3600 35.66 -7.89 27.77 46.00 670.2000 32.23 -5.06 27.17 46.00	MHz dBuV dB dBuV/m dBuV/m dB * 115.3600 49.02 -14.71 34.31 43.50 -9.19 169.6800 43.91 -12.78 31.13 43.50 -12.37 450.0100 36.84 -8.62 28.22 46.00 -17.78 600.3600 35.66 -7.89 27.77 46.00 -18.23 670.2000 32.23 -5.06 27.17 46.00 -18.83	MHz dBuV dB dBuV/m dBuV/m dB Detector  * 115.3600 49.02 -14.71 34.31 43.50 -9.19 peak 169.6800 43.91 -12.78 31.13 43.50 -12.37 peak 450.0100 36.84 -8.62 28.22 46.00 -17.78 peak 600.3600 35.66 -7.89 27.77 46.00 -18.23 peak 670.2000 32.23 -5.06 27.17 46.00 -18.83 peak

Report No.: BTL-FCCP-1-1501C010 Page 36 of 143



Test Mode: TX B MODE CHANNEL 01

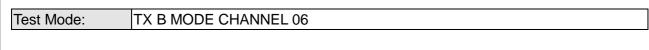
# Horizontal

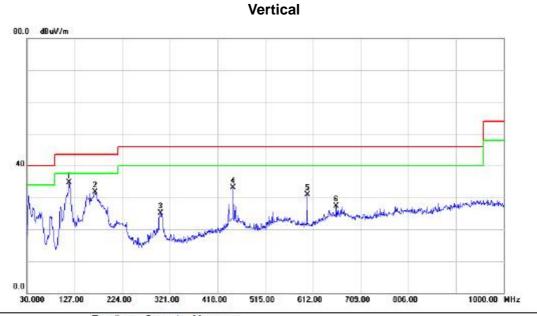


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	150.2800	39.86	-13.20	26.66	43.50	-16.84	peak	
1	191.9900	42.27	-14.48	27.79	43.50	-15.71	peak	
* 2	299.6600	42.02	-10.99	31.03	46.00	-14.97	peak	
3	366.5900	38.99	-11.03	27.96	46.00	-18.04	peak	
4	450.0100	38.81	-8.62	30.19	46.00	-15.81	peak	
8	300.1800	30.45	-2.89	27.56	46.00	-18.44	peak	
	* 2	MHz 150.2800 191.9900	Mk. Freq. Level  MHz dBuV  150.2800 39.86  191.9900 42.27  * 299.6600 42.02  366.5900 38.99  450.0100 38.81	Mk.         Freq.         Level dBuV dB         Factor dBuV dB           150.2800         39.86         -13.20           191.9900         42.27         -14.48           * 299.6600         42.02         -10.99           366.5900         38.99         -11.03           450.0100         38.81         -8.62	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           150.2800         39.86         -13.20         26.66           191.9900         42.27         -14.48         27.79           * 299.6600         42.02         -10.99         31.03           366.5900         38.99         -11.03         27.96           450.0100         38.81         -8.62         30.19	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         43.50         43.50         43.50         43.50         43.50         46.00         46.00         46.00         46.00         46.00         450.0100         38.81         -8.62         30.19         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           150.2800         39.86         -13.20         26.66         43.50         -16.84           191.9900         42.27         -14.48         27.79         43.50         -15.71           * 299.6600         42.02         -10.99         31.03         46.00         -14.97           366.5900         38.99         -11.03         27.96         46.00         -18.04           450.0100         38.81         -8.62         30.19         46.00         -15.81	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           150.2800         39.86         -13.20         26.66         43.50         -16.84         peak           191.9900         42.27         -14.48         27.79         43.50         -15.71         peak           * 299.6600         42.02         -10.99         31.03         46.00         -14.97         peak           366.5900         38.99         -11.03         27.96         46.00         -18.04         peak           450.0100         38.81         -8.62         30.19         46.00         -15.81         peak

Report No.: BTL-FCCP-1-1501C010 Page 37 of 143







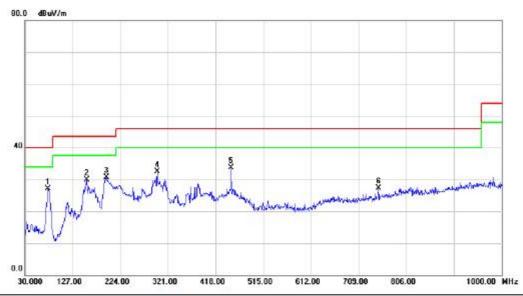
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
*	116.3300	49.23	-14.59	34.64	43.50	-8.86	peak	
	168.7100	44.57	-12.89	31.68	43.50	-11.82	peak	
	302.5700	36.16	-11.03	25.13	46.00	-20.87	peak	
	450.0100	41.71	-8.62	33.09	46.00	-12.91	peak	
	600.3600	38.75	-7.89	30.86	46.00	-15.14	peak	
	659.5300	32.40	-5.11	27.29	46.00	-18.71	peak	
	*	MHz * 116.3300	Mk. Freq. Level  MHz dBuV  * 116.3300 49.23  168.7100 44.57  302.5700 36.16  450.0100 41.71  600.3600 38.75	Mk.         Freq.         Level dBuV dB           * 116.3300         49.23         -14.59           * 168.7100         44.57         -12.89           302.5700         36.16         -11.03           450.0100         41.71         -8.62           600.3600         38.75         -7.89	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           * 116.3300         49.23         -14.59         34.64           168.7100         44.57         -12.89         31.68           302.5700         36.16         -11.03         25.13           450.0100         41.71         -8.62         33.09           600.3600         38.75         -7.89         30.86	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           * 116.3300         49.23         -14.59         34.64         43.50         -8.86           168.7100         44.57         -12.89         31.68         43.50         -11.82           302.5700         36.16         -11.03         25.13         46.00         -20.87           450.0100         41.71         -8.62         33.09         46.00         -12.91           600.3600         38.75         -7.89         30.86         46.00         -15.14	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           * 116.3300         49.23         -14.59         34.64         43.50         -8.86         peak           168.7100         44.57         -12.89         31.68         43.50         -11.82         peak           302.5700         36.16         -11.03         25.13         46.00         -20.87         peak           450.0100         41.71         -8.62         33.09         46.00         -12.91         peak           600.3600         38.75         -7.89         30.86         46.00         -15.14         peak

Report No.: BTL-FCCP-1-1501C010 Page 38 of 143





# Horizontal



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	77.5300	44.06	-16.87	27.19	40.00	-12.81	peak	
	156.1000	43.53	-13.62	29.91	43.50	-13.59	peak	
	195.8700	45.39	-14.73	30.66	43.50	-12.84	peak	
	299.6600	43.53	-10.99	32.54	46.00	-13.46	peak	
*	450.0100	42.30	-8.62	33.68	46.00	-12.32	peak	
	749.7400	32.02	-4.63	27.39	46.00	-18.61	peak	
	*	MHz 77.5300 156.1000 195.8700 299.6600	Mk. Freq. Level  MHz dBuV  77.5300 44.06  156.1000 43.53  195.8700 45.39  299.6600 43.53  * 450.0100 42.30	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           77.5300         44.06         -16.87           156.1000         43.53         -13.62           195.8700         45.39         -14.73           299.6600         43.53         -10.99           * 450.0100         42.30         -8.62	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           77.5300         44.06         -16.87         27.19           156.1000         43.53         -13.62         29.91           195.8700         45.39         -14.73         30.66           299.6600         43.53         -10.99         32.54           * 450.0100         42.30         -8.62         33.68	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         40.00         4	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           77.5300         44.06         -16.87         27.19         40.00         -12.81           156.1000         43.53         -13.62         29.91         43.50         -13.59           195.8700         45.39         -14.73         30.66         43.50         -12.84           299.6600         43.53         -10.99         32.54         46.00         -13.46           * 450.0100         42.30         -8.62         33.68         46.00         -12.32	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           77.5300         44.06         -16.87         27.19         40.00         -12.81         peak           156.1000         43.53         -13.62         29.91         43.50         -13.59         peak           195.8700         45.39         -14.73         30.66         43.50         -12.84         peak           299.6600         43.53         -10.99         32.54         46.00         -13.46         peak           * 450.0100         42.30         -8.62         33.68         46.00         -12.32         peak

Report No.: BTL-FCCP-1-1501C010 Page 39 of 143





# Vertical 80.0 d8 w//m 40 40 40 40 50.00 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

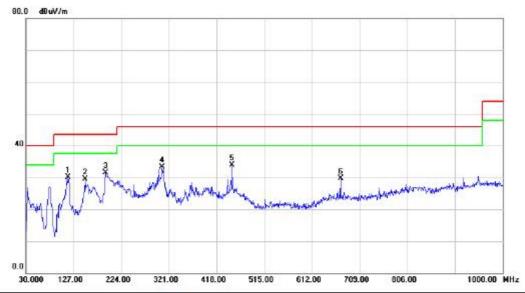
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	117.3000	50.69	-14.50	36.19	43.50	-7.31	peak	
2		159.0100	46.12	-13.81	32.31	43.50	-11.19	peak	
3		288.9900	34.12	-11.29	22.83	46.00	-23.17	peak	
4		450.0100	40.12	-8.62	31.50	46.00	-14.50	peak	
5		600.3600	36.78	-7.89	28.89	46.00	-17.11	peak	
6		749.7400	38.29	-4.63	33.66	46.00	-12.34	peak	
_									

Report No.: BTL-FCCP-1-1501C010 Page 40 of 143



Test Mode: TX B MODE CHANNEL 11

### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		116.3300	44.78	-14.59	30.19	43.50	-13.31	peak	
2	1	150.2800	42.67	-13.20	29.47	43.50	-14.03	peak	
3	* *	191.9900	46.04	-14.48	31.56	43.50	-11.94	peak	
4	3	307.4200	44.43	-11.11	33.32	46.00	-12.68	peak	
5	4	450.0100	42.55	-8.62	33.93	46.00	-12.07	peak	
6	6	670.2000	34.80	-5.06	29.74	46.00	-16.26	peak	

Report No.: BTL-FCCP-1-1501C010 Page 41 of 143

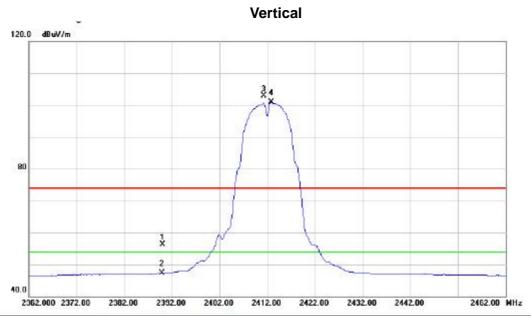


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ	<b>'.)</b>

Report No.: BTL-FCCP-1-1501C010 Page 42 of 143



Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz



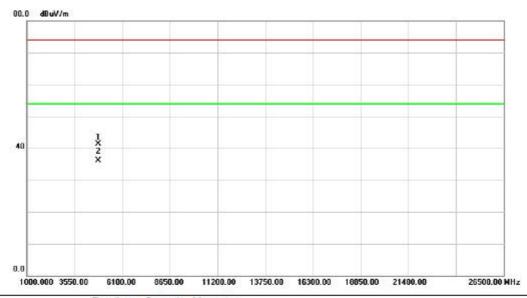
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	24.44	31.88	56.32	74.00	-17.68	peak		
2		2390.000	15.40	31.88	47.28	54.00	-6.72	AVG		
3	X	2411.200	70.94	31.91	102.85	74.00	28.85	peak	no limit	
4	*	2412.800	68.98	31.91	100.89	54.00	46.89	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 43 of 143



Test Mode: TX B MODE 2412MHz

### Vertical



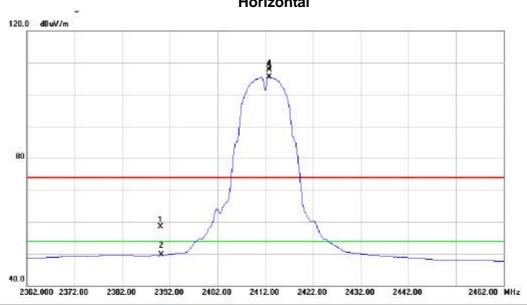
No.	٨	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1			4824.000	37.68	3.62	41.30	74.00	-32.70	peak		
2	*	t.	4824.000	32.55	3.62	36.17	54.00	-17.83	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 44 of 143



Test Mode: TX B MODE 2412MHz

# Horizontal



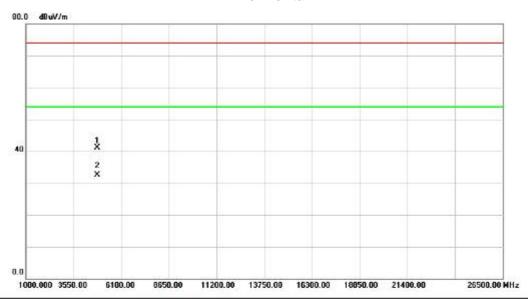
M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	23	390.000	26.53	31.88	58.41	74.00	-15.59	peak		
	23	390.000	17.74	31.88	49.62	54.00	-4.38	AVG	3.131	
*	24	112.800	73.64	31.91	105.55	54.00	51.55	AVG	no limit	
X	24	12.900	75.87	31.91	107.78	74.00	33.78	peak	no limit	
	*	* 24	MHz 2390.000 2390.000	Mk. Freq. Level  MHz dBuV  2390.000 26.53  2390.000 17.74  * 2412.800 73.64	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           2390.000         26.53         31.88           2390.000         17.74         31.88           * 2412.800         73.64         31.91	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           2390.000         26.53         31.88         58.41           2390.000         17.74         31.88         49.62           * 2412.800         73.64         31.91         105.55	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           2390.000         26.53         31.88         58.41         74.00           2390.000         17.74         31.88         49.62         54.00           * 2412.800         73.64         31.91         105.55         54.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           2390.000         26.53         31.88         58.41         74.00         -15.59           2390.000         17.74         31.88         49.62         54.00         -4.38           * 2412.800         73.64         31.91         105.55         54.00         51.55	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           2390.000         26.53         31.88         58.41         74.00         -15.59         peak           2390.000         17.74         31.88         49.62         54.00         -4.38         AVG           * 2412.800         73.64         31.91         105.55         54.00         51.55         AVG	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           2390.000         26.53         31.88         58.41         74.00         -15.59         peak           2390.000         17.74         31.88         49.62         54.00         -4.38         AVG           * 2412.800         73.64         31.91         105.55         54.00         51.55         AVG         no limit

Report No.: BTL-FCCP-1-1501C010 Page 45 of 143



Test Mode: TX B MODE 2412MHz

### Horizontal

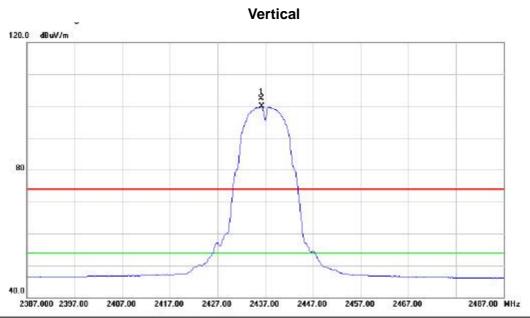


No.	Mk	k.	Freq.			Measure- ment		Over			
		7	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824	4.100	37.41	3.62	41.03	74.00	-32.97	peak		
2	*	4824	4.100	28.85	3.62	32.47	54.00	-21.53	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 46 of 143



Orthogonal Axis: X
Test Mode: TX B MODE 2437MHz



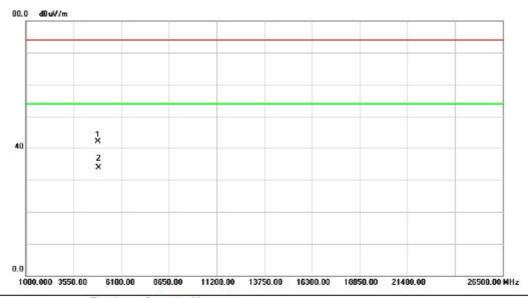
No.	M	lk.	Freq.			Measure- ment		Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	36.100	70.27	31.94	102.21	74.00	28.21	peak	no limit	
2	*	24	36.200	67.98	31.94	99.92	54.00	45.92	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 47 of 143



Test Mode: TX B MODE 2437MHz

### Vertical



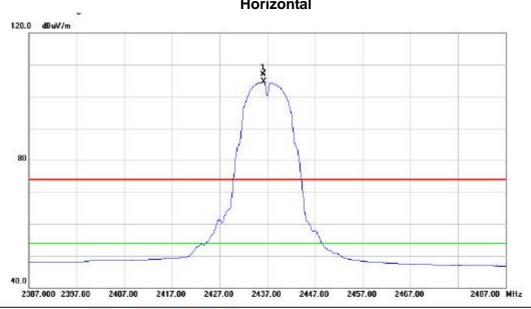
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		487	4.000	38.33	3.72	42.05	74.00	-31.95	peak	
2	*	487	4.000	30.11	3.72	33.83	54.00	-20.17	AVG	

Report No.: BTL-FCCP-1-1501C010 Page 48 of 143



Test Mode: TX B MODE 2437MHz

### Horizontal



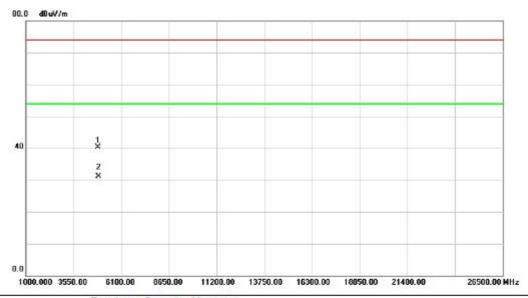
No.	Mk	k. Fr	req.			Measure- ment		Over			
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	Χ	2436.	100	75.03	31.94	106.97	74.00	32.97	peak	no limit	
2	*	2436.	200	72.75	31.94	104.69	54.00	50.69	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 49 of 143



Test Mode: TX B MODE 2437MHz

### Horizontal

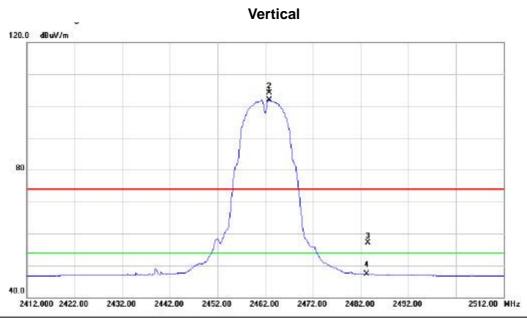


No.	Mk	. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.050	36.51	3.72	40.23	74.00	-33.77	peak		
2	*	4874.050	27.30	3.72	31.02	54.00	-22.98	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 50 of 143



Orthogonal Axis: X
Test Mode: TX B MODE 2462MHz



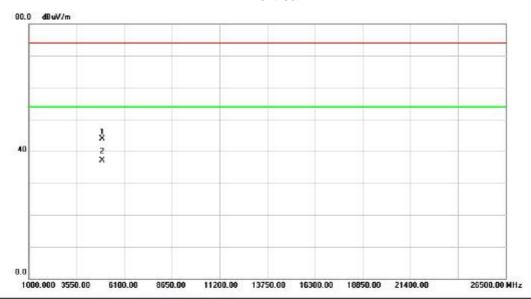
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2462.800	69.92	31.98	101.90	54.00	47.90	AVG	no limit	
2	Χ	2462.900	72.16	31.98	104.14	74.00	30.14	peak	no limit	
3		2483.500	25.00	32.01	57.01	74.00	-16.99	peak		
4		2483.500	15.28	32.01	47.29	54.00	-6.71	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 51 of 143



Test Mode: TX B MODE 2462MHz

### Vertical

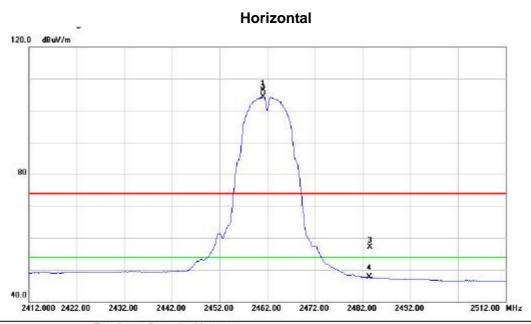


No.	Mk	. Freq.			Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	40.20	3.80	44.00	74.00	-30.00	peak		
2	*	4924.000	33.24	3.80	37.04	54.00	-16.96	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 52 of 143



Orthogonal Axis: X
Test Mode: TX B MODE 2462MHz



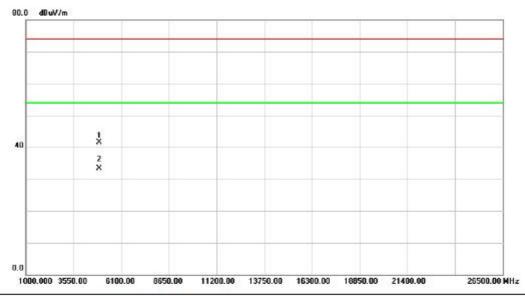
Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
Χ	2461.100	74.42	31.98	106.40	74.00	32.40	peak	no limit	
*	2461.100	72.35	31.98	104.33	54.00	50.33	AVG	no limit	
	2483.500	25.10	32.01	57.11	74.00	-16.89	peak		
	2483.500	15.64	32.01	47.65	54.00	-6.35	AVG		
	X	MHz X 2461.100 * 2461.100 2483.500	Mk. Freq. Level  MHz dBuV  X 2461.100 74.42  * 2461.100 72.35  2483.500 25.10	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           X         2461.100         74.42         31.98           *         2461.100         72.35         31.98           2483.500         25.10         32.01	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           X         2461.100         74.42         31.98         106.40           *         2461.100         72.35         31.98         104.33           2483.500         25.10         32.01         57.11	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m         dBuV/m           X         2461.100         74.42         31.98         106.40         74.00           *         2461.100         72.35         31.98         104.33         54.00           2483.500         25.10         32.01         57.11         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dB         dBuV/m         dB         dB	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           X         2461.100         74.42         31.98         106.40         74.00         32.40         peak           *         2461.100         72.35         31.98         104.33         54.00         50.33         AVG           2483.500         25.10         32.01         57.11         74.00         -16.89         peak	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         Comment           X         2461.100         74.42         31.98         106.40         74.00         32.40         peak         no limit           *         2461.100         72.35         31.98         104.33         54.00         50.33         AVG         no limit           2483.500         25.10         32.01         57.11         74.00         -16.89         peak

Report No.: BTL-FCCP-1-1501C010 Page 53 of 143



Test Mode: TX B MODE 2462MHz

### Horizontal

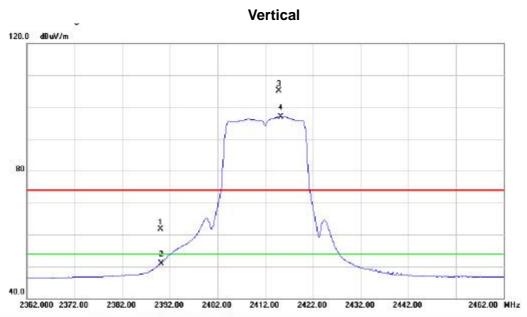


No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	37.77	3.80	41.57	74.00	-32.43	peak		
2	*	4924.000	29.45	3.80	33.25	54.00	-20.75	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 54 of 143



Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz



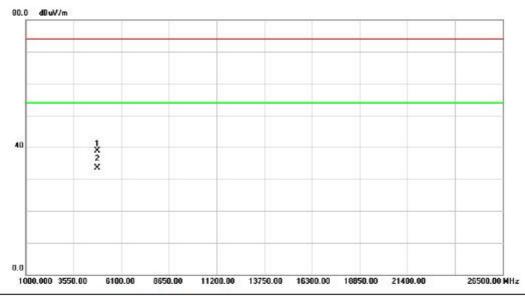
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	29.77	31.88	61.65	74.00	-12.35	peak		
2		2390.000	19.11	31.88	50.99	54.00	-3.01	AVG		
3	X	2414.900	73.25	31.91	105.16	74.00	31.16	peak	no limit	
4	*	2415.200	65.08	31.91	96.99	54.00	42.99	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 55 of 143



Test Mode: TX G MODE 2412MHz

### Vertical

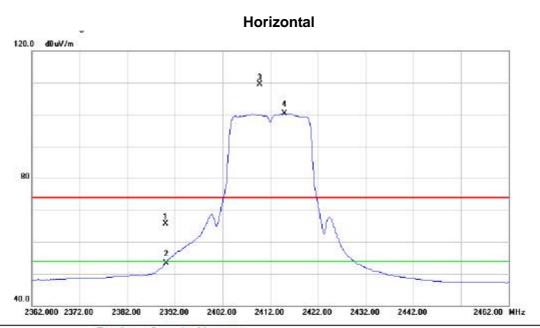


No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.100	35.33	3.62	38.95	74.00	-35.05	peak		
2	*	4824.100	29.91	3.62	33.53	54.00	-20.47	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 56 of 143



Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz



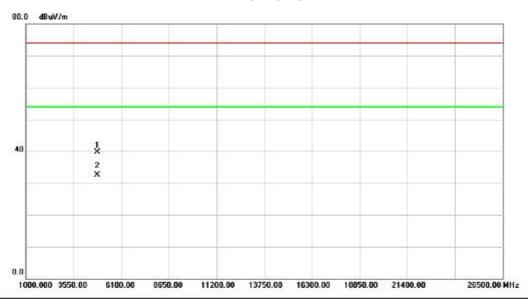
Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	2390.000	33.86	31.88	65.74	74.00	-8.26	peak		
	2390.000	21.51	31.88	53.39	54.00	-0.61	AVG		
X	2409.800	77.63	31.91	109.54	74.00	35.54	peak	no limit	
*	2415.000	68.40	31.91	100.31	54.00	46.31	AVG	no limit	
	X	MHz 2390.000 2390.000 X 2409.800	Mk. Freq. Level  MHz dBuV  2390.000 33.86  2390.000 21.51  X 2409.800 77.63	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           2390.000         33.86         31.88           2390.000         21.51         31.88           X         2409.800         77.63         31.91	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           2390.000         33.86         31.88         65.74           2390.000         21.51         31.88         53.39           X         2409.800         77.63         31.91         109.54	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m         dBuV/m           2390.000         33.86         31.88         65.74         74.00           2390.000         21.51         31.88         53.39         54.00           X         2409.800         77.63         31.91         109.54         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           2390.000         33.86         31.88         65.74         74.00         -8.26           2390.000         21.51         31.88         53.39         54.00         -0.61           X         2409.800         77.63         31.91         109.54         74.00         35.54	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           2390.000         33.86         31.88         65.74         74.00         -8.26         peak           2390.000         21.51         31.88         53.39         54.00         -0.61         AVG           X         2409.800         77.63         31.91         109.54         74.00         35.54         peak	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           2390.000         33.86         31.88         65.74         74.00         -8.26         peak           2390.000         21.51         31.88         53.39         54.00         -0.61         AVG           X         2409.800         77.63         31.91         109.54         74.00         35.54         peak         no limit

Report No.: BTL-FCCP-1-1501C010 Page 57 of 143



Test Mode: TX G MODE 2412MHz

### Horizontal

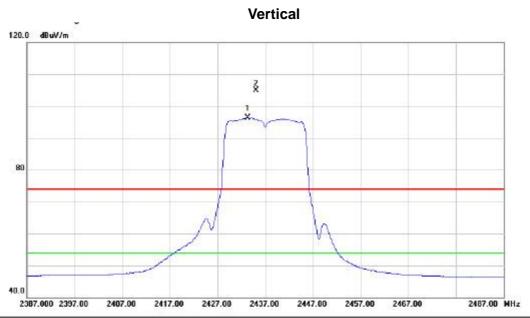


No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.100	36.00	3.62	39.62	74.00	-34.38	peak		
2	*	4824.100	28.81	3.62	32.43	54.00	-21.57	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 58 of 143



Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz



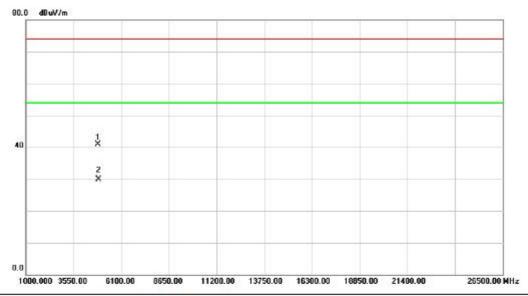
No.	Mk	k. Freq	Reading Level		Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2433.30	64.44	31.94	96.38	54.00	42.38	AVG	no limit	
2	X	2435.10	72.94	31.94	104.88	74.00	30.88	peak	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 59 of 143



Test Mode: TX G MODE 2437MHz

### Vertical



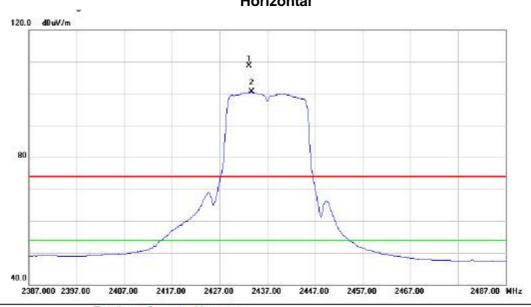
No.	Mk	k. Freq.	Reading Level		Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.950	37.24	3.72	40.96	74.00	-33.04	peak		
2	*	4873.950	26.15	3.72	29.87	54.00	-24.13	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 60 of 143



Test Mode: TX G MODE 2437MHz

### Horizontal



No.	M	lk.	Freq.			Measure- ment		Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	133.200	76.83	31.94	108.77	74.00	34.77	peak	no limit	
2	*	24	133.700	68.65	31.94	100.59	54.00	46.59	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 61 of 143



Test Mode: TX G MODE 2437MHz

### Horizontal

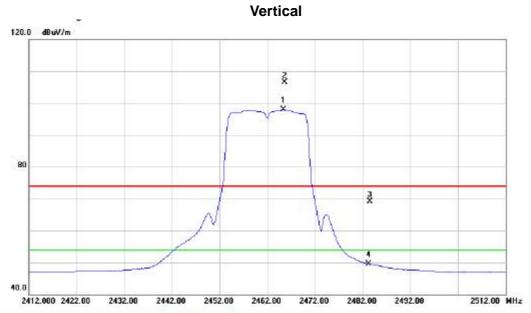


No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.950	37.62	3.72	41.34	74.00	-32.66	peak		
2	*	4873.950	26.05	3.72	29.77	54.00	-24.23	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 62 of 143



Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
_		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2465.400	65.88	31.98	97.86	54.00	43.86	AVG	no limit	
2	X	2465.700	74.52	31.98	106.50	74.00	32.50	peak	no limit	
3		2483.500	37.07	32.01	69.08	74.00	-4.92	peak		
4		2483.500	17.55	32.01	49.56	54.00	-4.44	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 63 of 143



Test Mode: TX G MODE 2462MHz

### Vertical



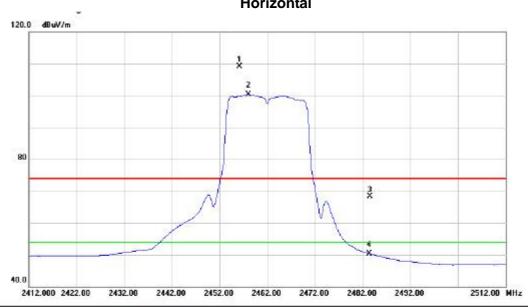
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		49	924.250	35.83	3.80	39.63	74.00	-34.37	peak		
2	*	49	924.250	26.43	3.80	30.23	54.00	-23.77	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 64 of 143



Test Mode: TX G MODE 2462MHz

### Horizontal



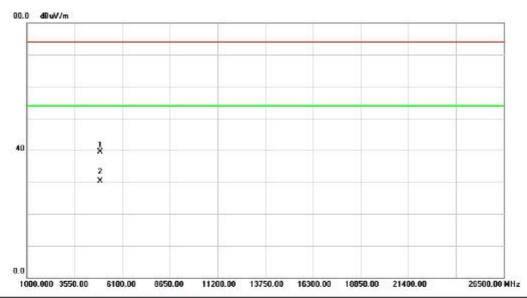
Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
Χ	2456.200	77.08	31.96	109.04	74.00	35.04	peak	no limit	
*	2458.100	68.27	31.98	100.25	54.00	46.25	AVG	no limit	
	2483.500	36.35	32.01	68.36	74.00	-5.64	peak		
	2483.500	18.38	32.01	50.39	54.00	-3.61	AVG		
	X	MHz X 2456.200 * 2458.100 2483.500	Mk. Freq. Level  MHz dBuV  X 2456.200 77.08  * 2458.100 68.27  2483.500 36.35	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           X         2456.200         77.08         31.96           *         2458.100         68.27         31.98           2483.500         36.35         32.01	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           X         2456.200         77.08         31.96         109.04           *         2458.100         68.27         31.98         100.25           2483.500         36.35         32.01         68.36	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m         dBuV/m           X         2456.200         77.08         31.96         109.04         74.00           *         2458.100         68.27         31.98         100.25         54.00           2483.500         36.35         32.01         68.36         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           X         2456.200         77.08         31.96         109.04         74.00         35.04           *         2458.100         68.27         31.98         100.25         54.00         46.25           2483.500         36.35         32.01         68.36         74.00         -5.64	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           X         2456.200         77.08         31.96         109.04         74.00         35.04         peak           *         2458.100         68.27         31.98         100.25         54.00         46.25         AVG           2483.500         36.35         32.01         68.36         74.00         -5.64         peak	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         Comment           X         2456.200         77.08         31.96         109.04         74.00         35.04         peak         no limit           *         2458.100         68.27         31.98         100.25         54.00         46.25         AVG         no limit           2483.500         36.35         32.01         68.36         74.00         -5.64         peak

Report No.: BTL-FCCP-1-1501C010 Page 65 of 143



Test Mode: TX G MODE 2462MHz

### Horizontal

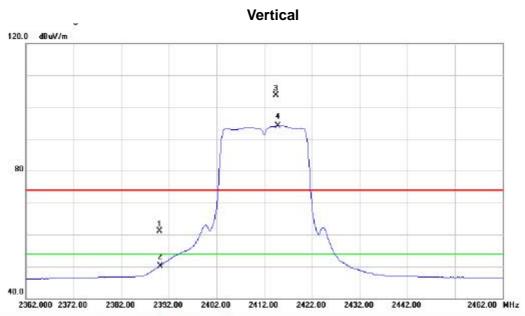


No.	Mk	. Freq.	Reading Level		Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.650	35.65	3.80	39.45	74.00	-34.55	peak		
2	*	4924.650	26.48	3.80	30.28	54.00	-23.72	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 66 of 143



Orthogonal Axis: X
Test Mode: TX N-20M MODE 2412MHz



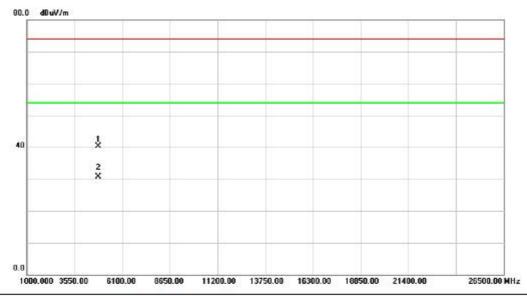
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	29.18	31.88	61.06	74.00	-12.94	peak		
2		2390.000	18.25	31.88	50.13	54.00	-3.87	AVG		
3	X	2414.500	71.73	31.91	103.64	74.00	29.64	peak	no limit	
4	*	2414.800	62.29	31.91	94.20	54.00	40.20	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 67 of 143



Test Mode: TX N-20M MODE 2412MHz

### **Vertical**



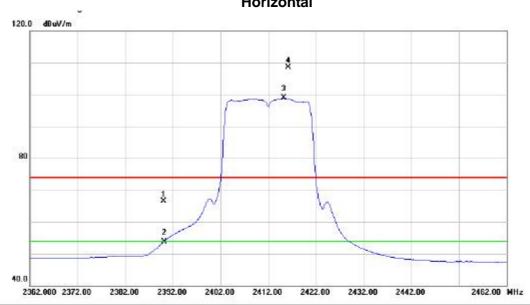
No.	Mk	. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.050	36.78	3.62	40.40	74.00	-33.60	peak		
2	*	4824.050	27.12	3.62	30.74	54.00	-23.26	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 68 of 143



Test Mode : TX N-20M MODE 2412MHz

### Horizontal



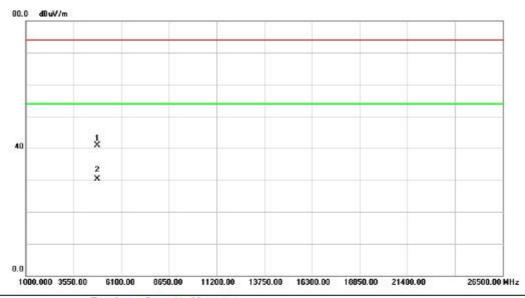
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	34.59	31.88	66.47	74.00	-7.53	peak	
2		2390.000	21.74	31.88	53.62	54.00	-0.38	AVG	
3	*	2415.300	66.92	31.91	98.83	54.00	44.83	AVG	no limit
4	X	2416.200	76.57	31.91	108.48	74.00	34.48	peak	no limit

Report No.: BTL-FCCP-1-1501C010 Page 69 of 143



Test Mode: TX N-20M MODE 2412MHz

### Horizontal

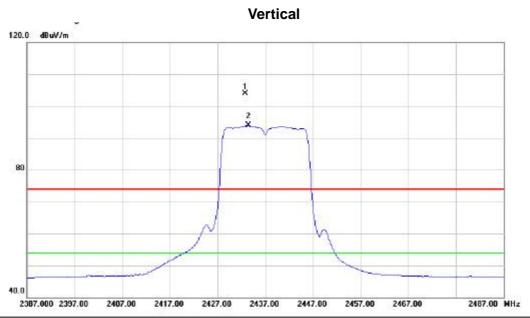


No.	M	k. Fr	eq.			Measure- ment		Over			
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.0	050	37.34	3.62	40.96	74.00	-33.04	peak		
2	*	4823.0	050	26.76	3.62	30.38	54.00	-23.62	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 70 of 143



Orthogonal Axis: X
Test Mode: TX N-20M MODE 2437MHz



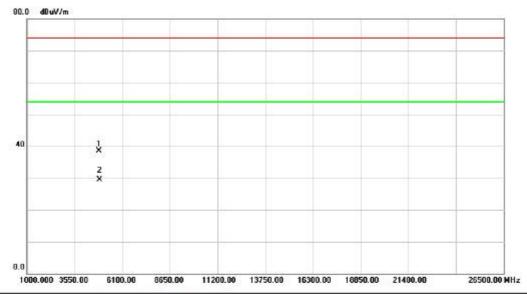
No.	M	k.	Freq.	Reading Level		Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	Χ	243	2.800	71.89	31.94	103.83	74.00	29.83	peak	no limit	
2	*	243	3.400	62.03	31.94	93.97	54.00	39.97	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 71 of 143



Test Mode: TX N-20M MODE 2437MHz

### Vertical



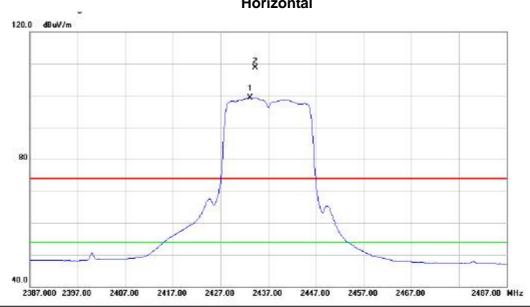
No.	Mk	. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.850	34.79	3.72	38.51	74.00	-35.49	peak		
2	*	4874.850	25.74	3.72	29.46	54.00	-24.54	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 72 of 143



Test Mode : TX N-20M MODE 2437MHz

# Horizontal



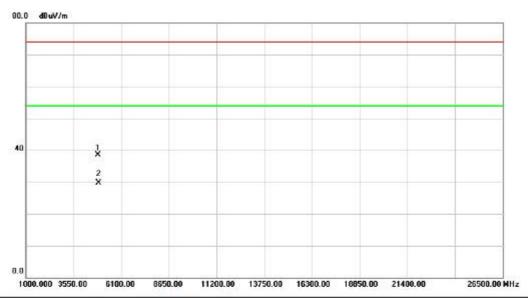
No.	M	k.	Freq.			Measure- ment		Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	243	33.200	67.28	31.94	99.22	54.00	45.22	AVG	no limit	
2	X	24	34.300	76.81	31.94	108.75	74.00	34.75	peak	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 73 of 143



Test Mode: TX N-20M MODE 2437MHz

#### Horizontal

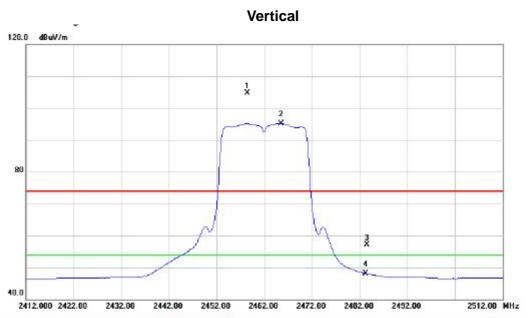


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		487	3.350	34.87	3.72	38.59	74.00	-35.41	peak	
2	*	487	3.350	26.06	3.72	29.78	54.00	-24.22	AVG	

Report No.: BTL-FCCP-1-1501C010 Page 74 of 143



Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz



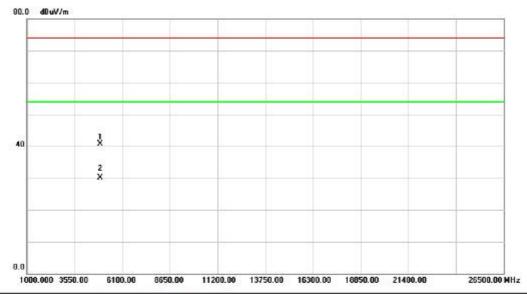
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	Χ	2458.500	72.70	31.98	104.68	74.00	30.68	peak	no limit	
2	*	2465.500	63.17	31.98	95.15	54.00	41.15	AVG	no limit	
3		2483.500	25.13	32.01	57.14	74.00	-16.86	peak		
4		2483.500	16.01	32.01	48.02	54.00	-5.98	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 75 of 143



Test Mode: TX N-20M MODE 2462MHz

#### **Vertical**



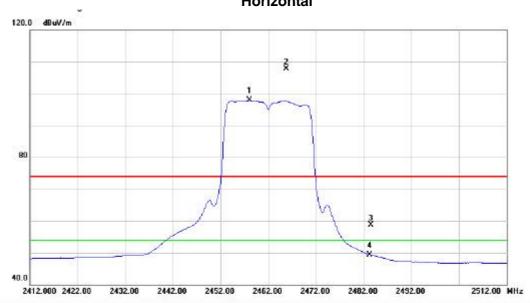
No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.500	36.99	3.80	40.79	74.00	-33.21	peak		
2	*	4924.500	26.32	3.80	30.12	54.00	-23.88	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 76 of 143



Test Mode : TX N-20M MODE 2462MHz

# Horizontal



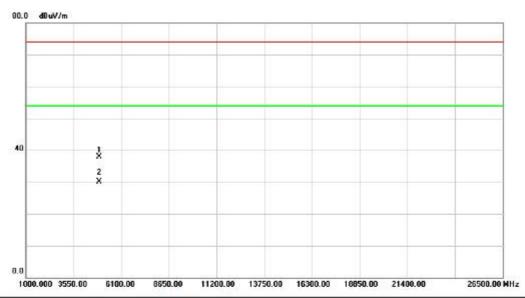
No.	M	۱k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2	458.100	65.87	31.98	97.85	54.00	43.85	AVG	no limit	
2	X	2	465.800	75.76	31.98	107.74	74.00	33.74	peak	no limit	
3		2	483.500	26.71	32.01	58.72	74.00	-15.28	peak		
4		2	483.500	17.35	32.01	49.36	54.00	-4.64	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 77 of 143



Test Mode: TX N-20M MODE 2462MHz

#### Horizontal

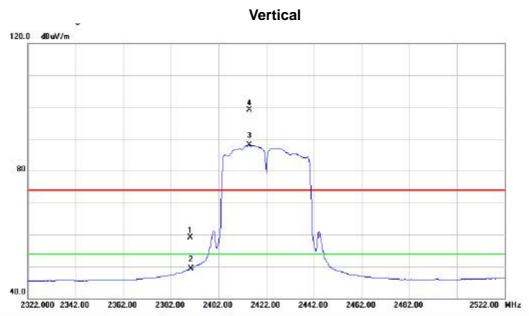


No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4925.700	34.11	3.80	37.91	74.00	-36.09	peak		
2	*	4925.700	26.30	3.80	30.10	54.00	-23.90	AVG		_

Report No.: BTL-FCCP-1-1501C010 Page 78 of 143



Orthogonal Axis: X
Test Mode: TX N-40M MODE 2422MHz



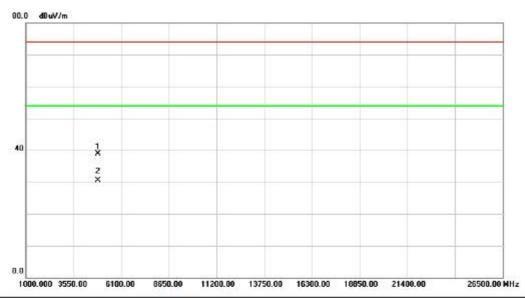
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	27.16	31.88	59.04	74.00	-14.96	peak		
2		2390.000	17.40	31.88	49.28	54.00	-4.72	AVG		
3	*	2414.800	56.17	31.91	88.08	54.00	34.08	AVG	no limit	
4	X	2415.000	67.10	31.91	99.01	74.00	25.01	peak	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 79 of 143



Test Mode: TX N-40M MODE 2422MHz

#### Vertical

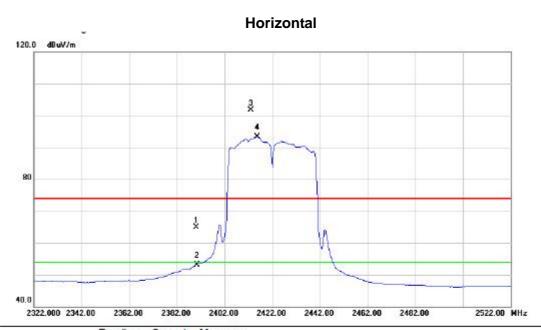


No.	Mk	k. F	req.			Measure- ment		Over			
		N	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4845.	700	35.23	3.66	38.89	74.00	-35.11	peak		
2	*	4845.	700	26.92	3.66	30.58	54.00	-23.42	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 80 of 143



Orthogonal Axis: X
Test Mode: TX N-40M MODE 2422MHz



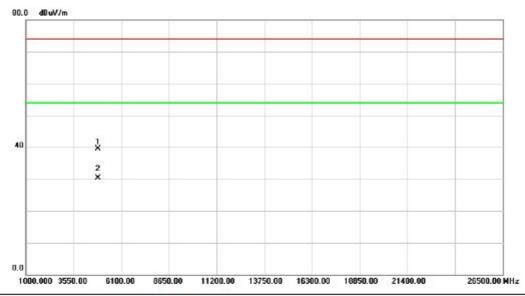
No.	ı	Μk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1			2390.000	32.96	31.88	64.84	74.00	-9.16	peak		
2			2390.000	21.22	31.88	53.10	54.00	-0.90	AVG	1111	
3	-	X	2413.000	69.87	31.91	101.78	74.00	27.78	peak	no limit	
4	1	*	2415.600	61.33	31.91	93.24	54.00	39.24	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 81 of 143



Test Mode: TX N-40M MODE 2422MHz

#### Horizontal

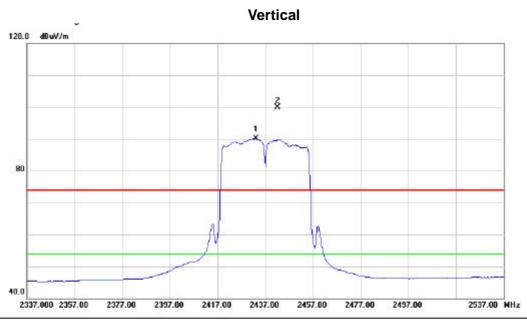


No.	Mk	k. Freq.	Reading Level		Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4843.700	35.88	3.66	39.54	74.00	-34.46	peak		
2	*	4843.700	26.69	3.66	30.35	54.00	-23.65	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 82 of 143



Orthogonal Axis: X
Test Mode: TX N-40M MODE 2437MHz



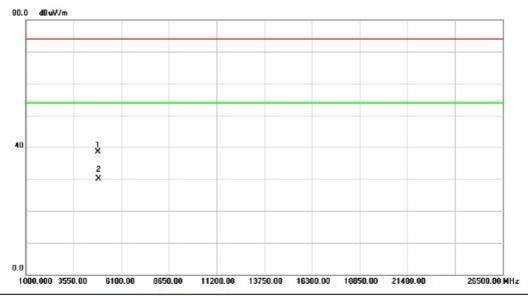
No.	M	k. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2433.000	58.16	31.94	90.10	54.00	36.10	AVG	no limit	
2	X	2442.200	67.92	31.95	99.87	74.00	25.87	peak	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 83 of 143



Test Mode: TX N-40M MODE 2437MHz

#### Vertical



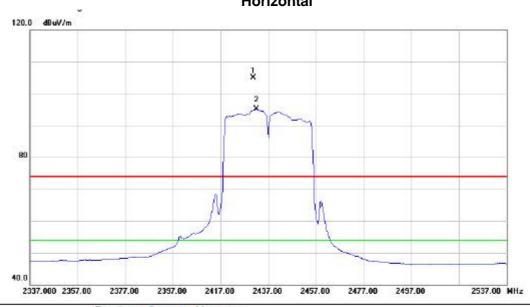
No.	M	k.	Freq.			Measure- ment		Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		48	374.300	34.76	3.72	38.48	74.00	-35.52	peak		
2	*	48	374.300	26.32	3.72	30.04	54.00	-23.96	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 84 of 143



Test Mode: TX N-40M MODE 2437MHz

# Horizontal



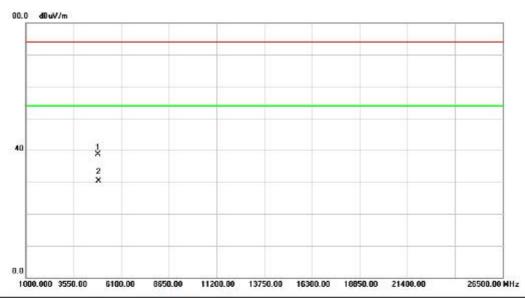
No.	M	Λk.	Freq.			Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	Х	( :	2430.600	73.02	31.93	104.95	74.00	30.95	peak	no limit	
2	*		2432.000	63.13	31.94	95.07	54.00	41.07	AVG	no limit	

Report No.: BTL-FCCP-1-1501C010 Page 85 of 143



Test Mode: TX N-40M MODE 2437MHz

#### Horizontal

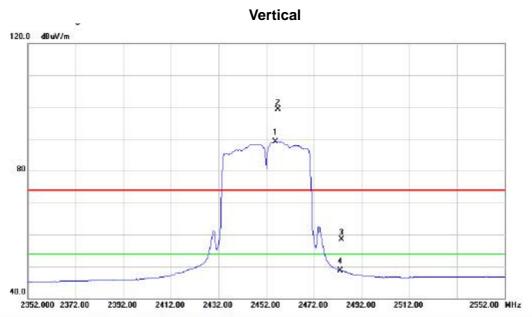


No.	Mk	. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.100	35.00	3.72	38.72	74.00	-35.28	peak		
2	*	4873.100	26.55	3.72	30.27	54.00	-23.73	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 86 of 143



Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz



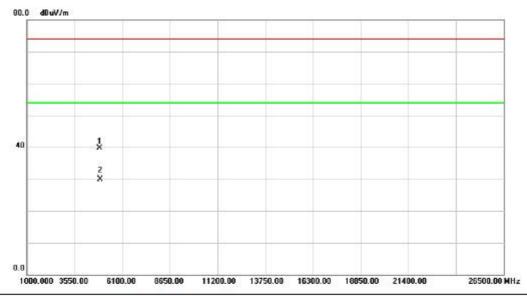
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2455.800	57.22	31.96	89.18	54.00	35.18	AVG	no limit	
2	Χ	2456.800	67.38	31.97	99.35	74.00	25.35	peak	no limit	
3		2483.500	26.57	32.01	58.58	74.00	-15.42	peak		
4		2483.500	16.69	32.01	48.70	54.00	-5.30	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 87 of 143



Test Mode: TX N-40M MODE 2452MHz

#### Vertical

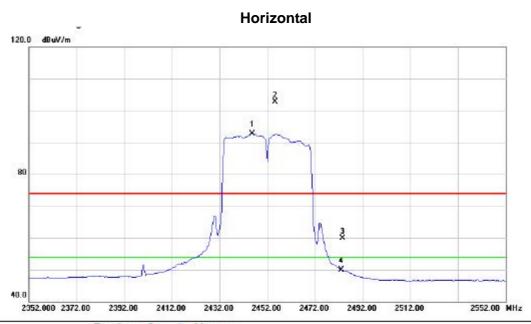


No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4902.900	35.97	3.76	39.73	74.00	-34.27	peak		
2	*	4902.900	26.16	3.76	29.92	54.00	-24.08	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 88 of 143



Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz



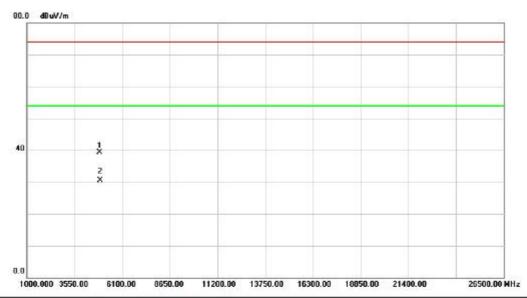
Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	2445.600	60.74	31.96	92.70	54.00	38.70	AVG	no limit	
X	2455.400	70.83	31.96	102.79	74.00	28.79	peak	no limit	
	2483.500	27.80	32.01	59.81	74.00	-14.19	peak		
	2483.500	17.91	32.01	49.92	54.00	-4.08	AVG		
	*	MHz * 2445.600 X 2455.400 2483.500	Mk. Freq. Level  MHz dBuV  * 2445.600 60.74  X 2455.400 70.83  2483.500 27.80	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           * 2445.600         60.74         31.96           X 2455.400         70.83         31.96           2483.500         27.80         32.01	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           * 2445.600         60.74         31.96         92.70           X 2455.400         70.83         31.96         102.79           2483.500         27.80         32.01         59.81	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           * 2445.600         60.74         31.96         92.70         54.00           X 2455.400         70.83         31.96         102.79         74.00           2483.500         27.80         32.01         59.81         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           * 2445.600         60.74         31.96         92.70         54.00         38.70           X 2455.400         70.83         31.96         102.79         74.00         28.79           2483.500         27.80         32.01         59.81         74.00         -14.19	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           * 2445.600         60.74         31.96         92.70         54.00         38.70         AVG           X 2455.400         70.83         31.96         102.79         74.00         28.79         peak           2483.500         27.80         32.01         59.81         74.00         -14.19         peak	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         Comment           * 2445.600         60.74         31.96         92.70         54.00         38.70         AVG         no limit           X 2455.400         70.83         31.96         102.79         74.00         28.79         peak         no limit           2483.500         27.80         32.01         59.81         74.00         -14.19         peak

Report No.: BTL-FCCP-1-1501C010 Page 89 of 143



Test Mode: TX N-40M MODE 2452MHz

#### Horizontal



No.	N	Λk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1			4904.900	35.59	3.77	39.36	74.00	-34.64	peak		
2	*	Σ.	4904.900	26.78	3.77	30.55	54.00	-23.45	AVG		

Report No.: BTL-FCCP-1-1501C010 Page 90 of 143



ATTACHMENT E - BANDWIDTH	

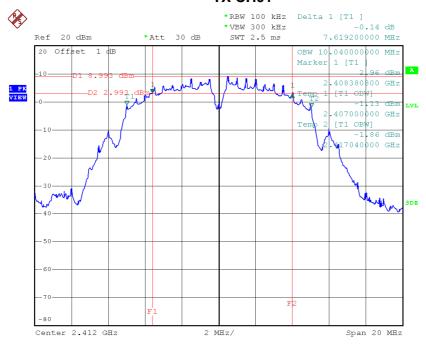
Report No.: BTL-FCCP-1-1501C010 Page 91 of 143



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

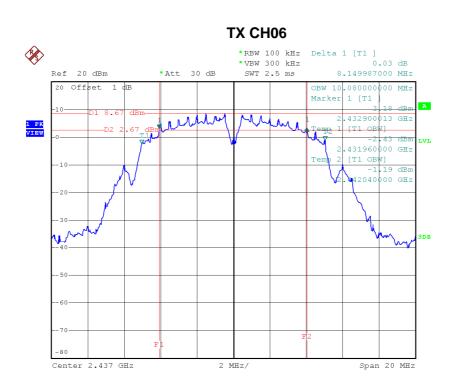
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	7.62	10.04	500	Complies
2437	8.15	10.08	500	Complies
2462	7.63	10.08	500	Complies

#### **TX CH01**

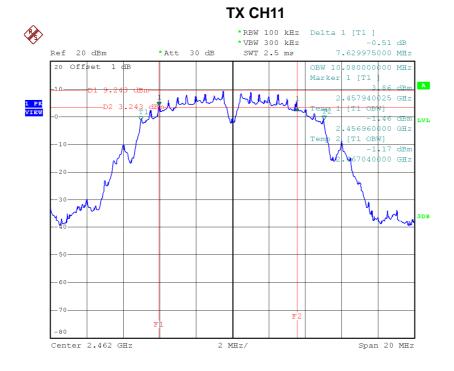


Date: 13.JAN.2015 18:35:27





Date: 13.JAN.2015 18:36:27



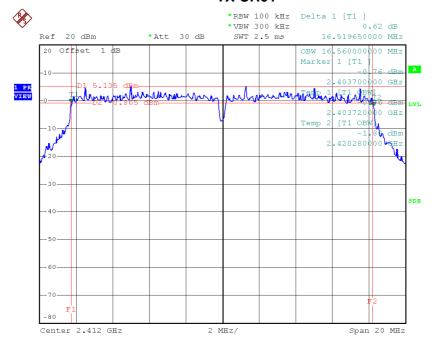
Date: 13.JAN.2015 18:37:32



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

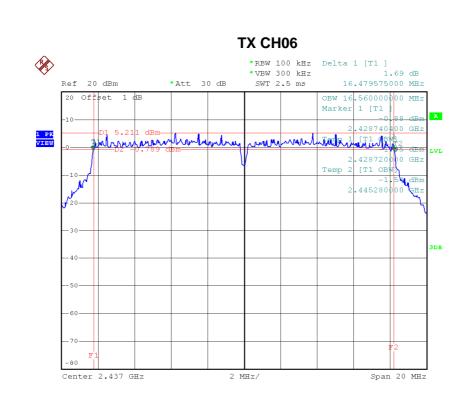
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.52	16.56	500	Complies
2437	16.48	16.56	500	Complies
2462	16.51	16.52	500	Complies

#### **TX CH01**

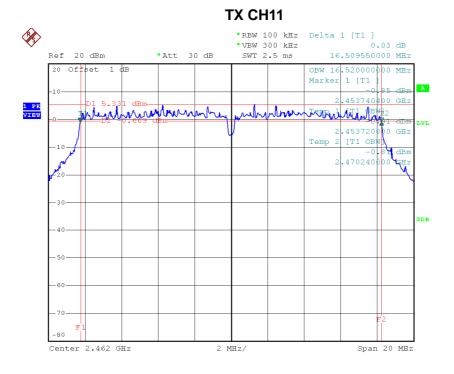


Date: 13.JAN.2015 18:38:25





Date: 13.JAN.2015 18:39:27



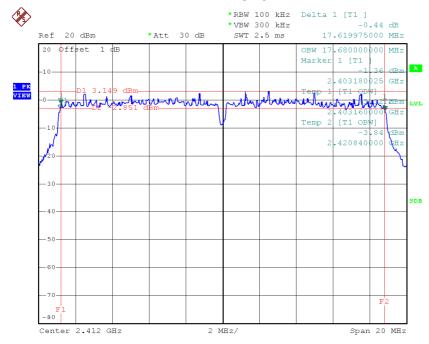
Date: 13.JAN.2015 18:40:14



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.68	500	Complies
2437	17.67	17.64	500	Complies
2462	17.66	17.68	500	Complies

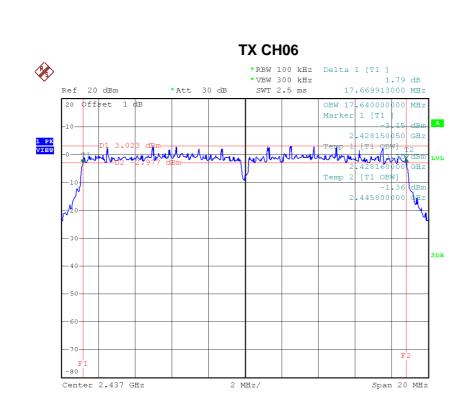
#### **TX CH01**



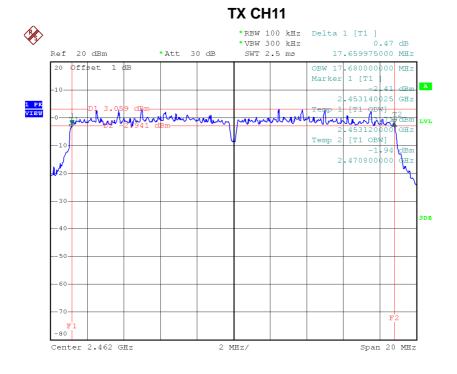
Date: 13.JAN.2015 18:41:48

Report No.: BTL-FCCP-1-1501C010 Page 96 of 143





Date: 13.JAN.2015 18:43:49



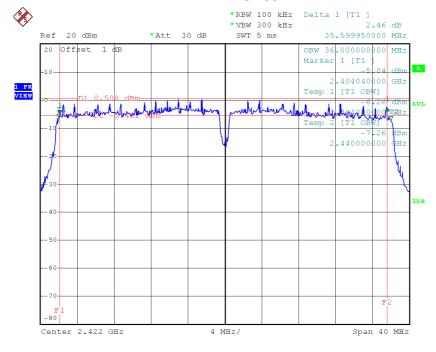
Date: 13.JAN.2015 18:46:03



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.60	36.00	500	Complies
2437	36.00	36.00	500	Complies
2452	35.60	36.00	500	Complies

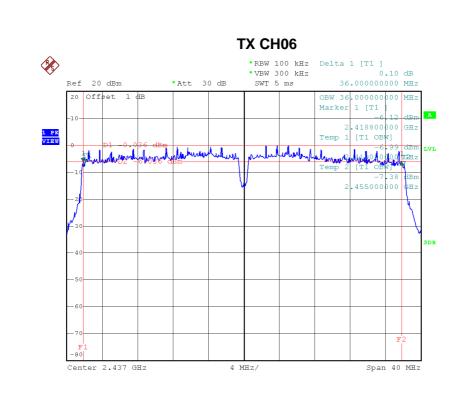
#### **TX CH03**



Date: 13.JAN.2015 18:50:39

Report No.: BTL-FCCP-1-1501C010 Page 98 of 143





#### Date: 13.JAN.2015 18:52:39

# 

Date: 13.JAN.2015 18:53:47



ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Report No.: BTL-FCCP-1-1501C010 Page 100 of 143



# Test Mode :TX B Mode\_CH01/06/11\_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.72	0.09	30.00	1.00	Complies
2437	19.26	0.08	30.00	1.00	Complies
2462	19.36	0.09	30.00	1.00	Complies

# Test Mode :TX G Mode\_CH01/06/11\_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.12	0.33	30.00	1.00	Complies
2437	25.37	0.34	30.00	1.00	Complies
2462	25.38	0.35	30.00	1.00	Complies

Report No.: BTL-FCCP-1-1501C010 Page 101 of 143



# Test Mode :TX N20 Mode\_CH01/06/11\_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.16	0.26	30.00	1.00	Complies
2437	24.20	0.26	30.00	1.00	Complies
2462	24.25	0.27	30.00	1.00	Complies

# Test Mode :TX N20 Mode\_CH01/06/11\_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.43	0.22	30.00	1.00	Complies
2437	23.54	0.23	30.00	1.00	Complies
2462	23.63	0.23	30.00	1.00	Complies

#### Test Mode :TX N20 Mode\_CH01/06/11\_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	26.82	0.48	30.00	1.00	Complies
2437	26.89	0.49	30.00	1.00	Complies
2462	26.96	0.50	30.00	1.00	Complies

Report No.: BTL-FCCP-1-1501C010 Page 102 of 143



# Test Mode :TX N40 Mode\_CH03/06/09\_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	24.02	0.25	30.00	1.00	Complies
2437	24.22	0.26	30.00	1.00	Complies
2452	24.17	0.26	30.00	1.00	Complies

# Test Mode :TX N40 Mode\_CH03/06/09\_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.37	0.22	30.00	1.00	Complies
2437	23.45	0.22	30.00	1.00	Complies
2452	23.35	0.22	30.00	1.00	Complies

# Test Mode :TX N40 Mode\_CH03/06/09\_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	26.72	0.47	30.00	1.00	Complies
2437	26.86	0.49	30.00	1.00	Complies
2452	26.79	0.48	30.00	1.00	Complies

Report No.: BTL-FCCP-1-1501C010 Page 103 of 143



ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

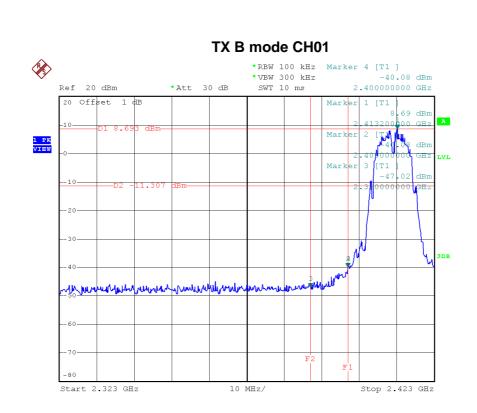
Report No.: BTL-FCCP-1-1501C010 Page 104 of 143

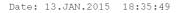


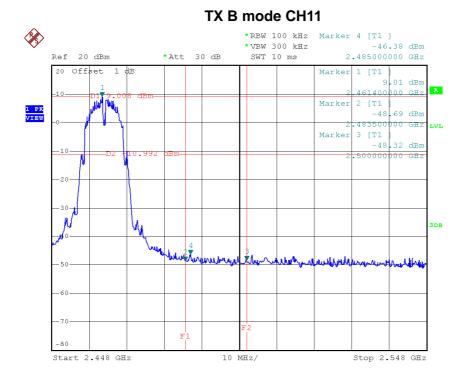
Test Mode :	TX B Mode

Report No.: BTL-FCCP-1-1501C010





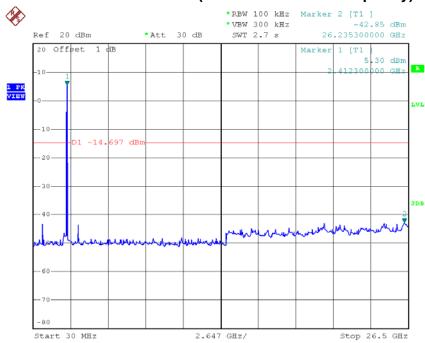




Date: 13.JAN.2015 18:37:53

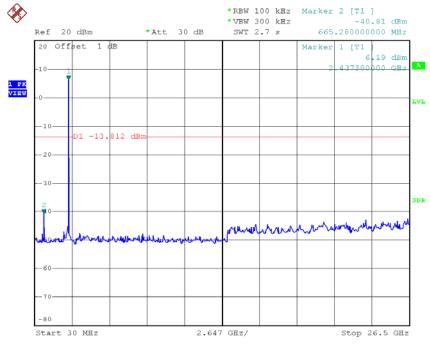






Date: 13.JAN.2015 18:35:41

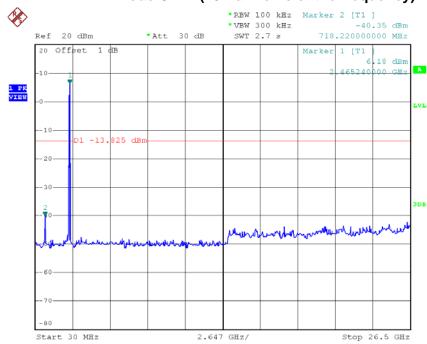
# TX B mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:36:40





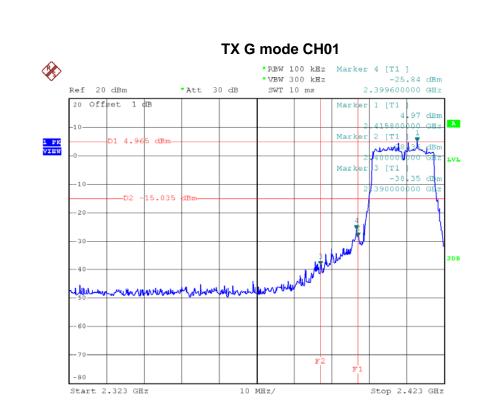


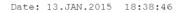
Date: 13.JAN.2015 18:37:45



est Mode :	TX G Mode		





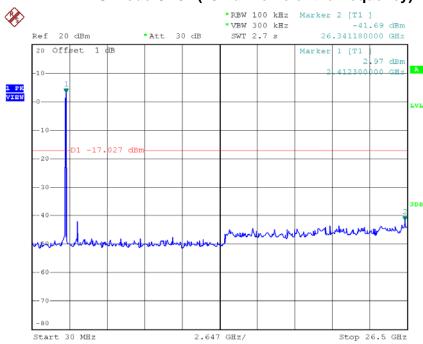


# TX G mode CH11 \*RBW 100 kHz Marker 4 [T1 ] \*VBW 300 kHz -38.27 dBm \*Att 30 dB 2.483500000 GHz Ref 20 dBm SWT 10 ms 20 Offset 1 dB Marker 1 [T1 5 00 dBm Marker 2 [T1 | -38 27 dBm 1 PK VIEW 483500000 GHZ Marker 3 [T1 -48.35 dBm 500000000 GHz -80 Start 2.448 GHz Stop 2.548 GHz 10 MHz/

Date: 13.JAN.2015 18:40:35

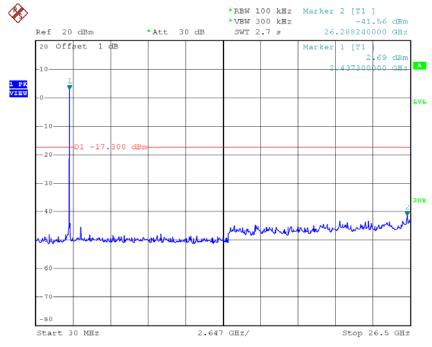






Date: 13.JAN.2015 18:38:39

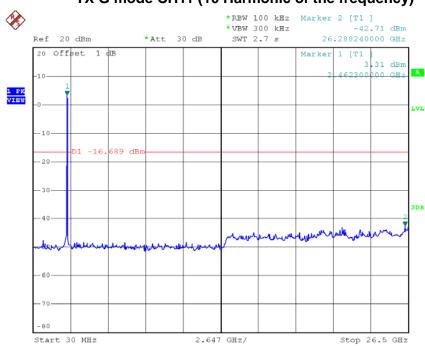
# TX G mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:39:40





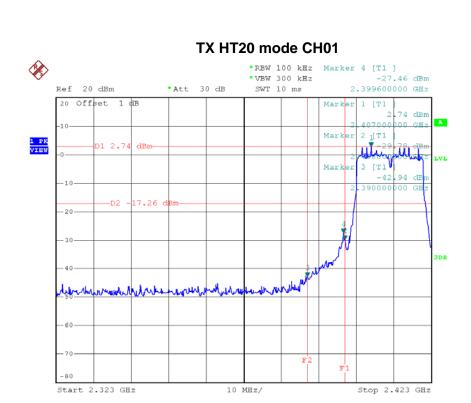


Date: 13.JAN.2015 18:40:28



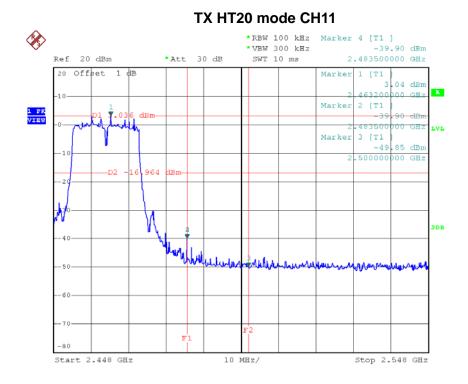
Test Mode :	TX N-20M Mode_ANT 1
	_





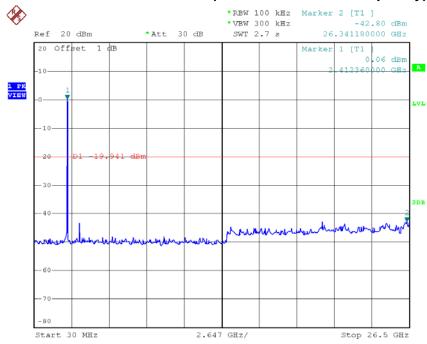


Date: 13.JAN.2015 18:46:32



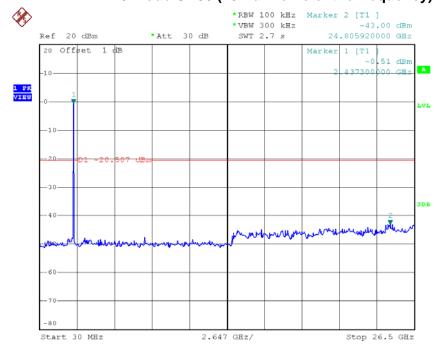






Date: 13.JAN.2015 18:42:02

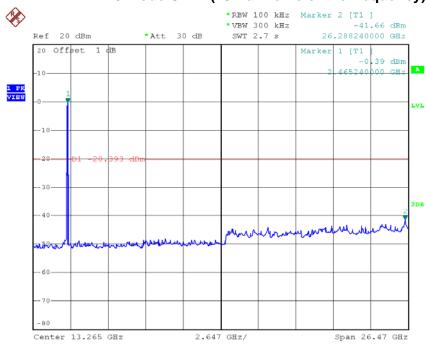
# TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:44:03



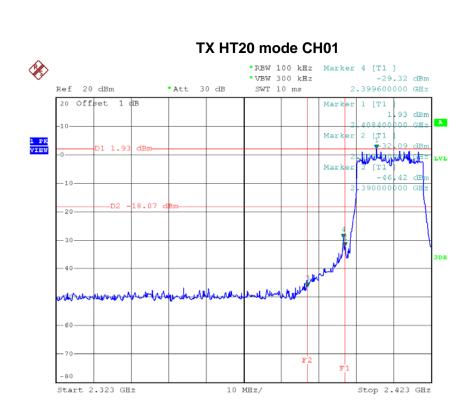




Date: 13.JAN.2015 18:46:24

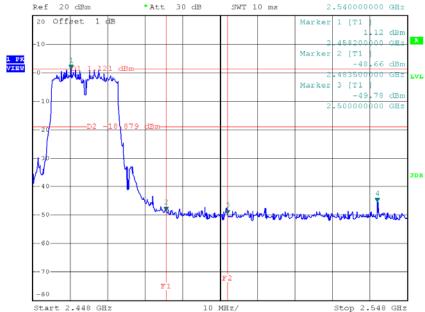






Date: 13.JAN.2015 18:47:39

# TX HT20 mode CH11 \*REW 100 kHz Marker 4 [T1] \*VBW 300 kHz -45.3 Ref 20 dBm \*Att 30 dB SWT 10 ms 2.54000000

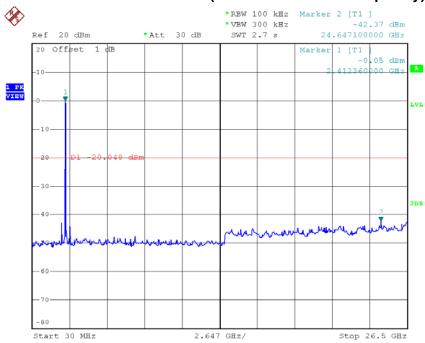


-45.36 dBm

Date: 13.JAN.2015 18:49:55

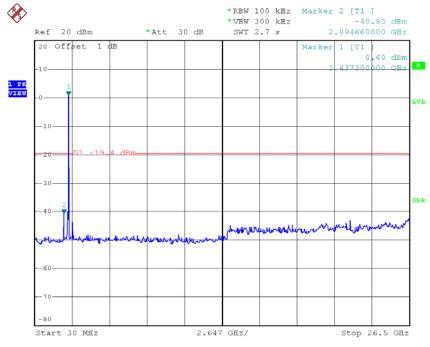






Date: 13.JAN.2015 18:47:32

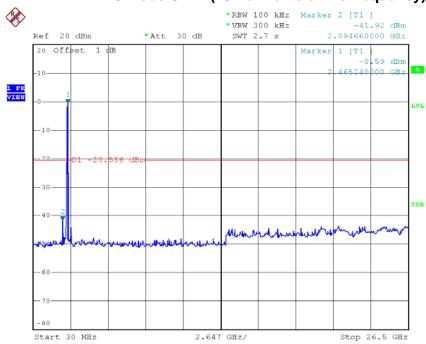
# TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:48:55





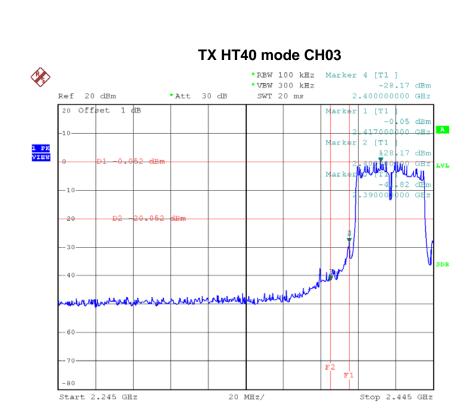


Date: 13.JAN.2015 18:49:48



Test Mode:	TX N-40M Mode_ANT 1







# TX HT40 mode CH09 \*RBW 100 kHz Marker 4 [T1 ] -44.15 dBm \*VBW 300 kHz Ref 20 dBm SWT 20 ms 2.484800000 GHz \*Att 30 dB 20 Offset 1 dB Marker 1 [T1 -0.26 dBm 2 [T1 1 PK VIEW -44.75 dBn 183500 3 [T1 | -47.96 dBm -80

20 MHz/

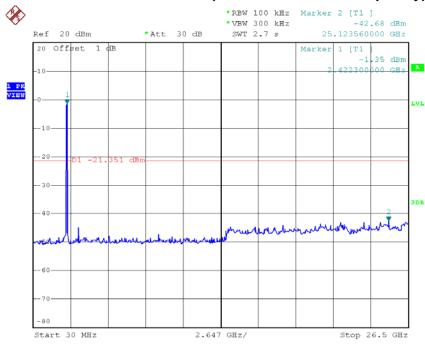
Stop 2.63 GHz

Date: 13.JAN.2015 18:54:19

Start 2.43 GHz

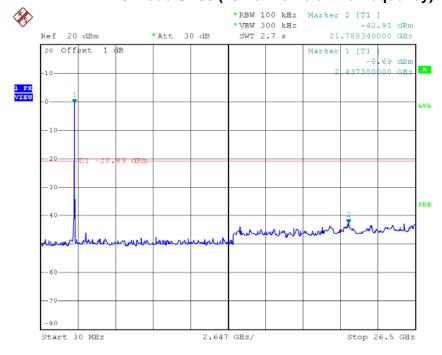






Date: 13.JAN.2015 18:51:49

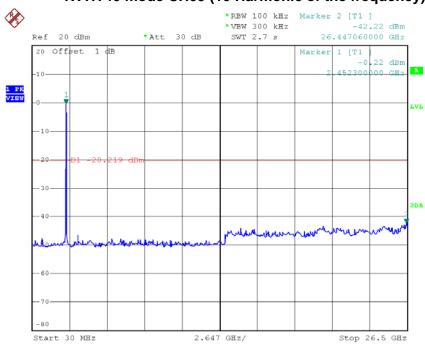
# TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:53:03



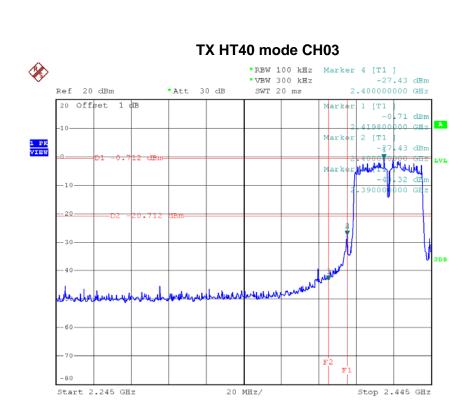




Date: 13.JAN.2015 18:54:12

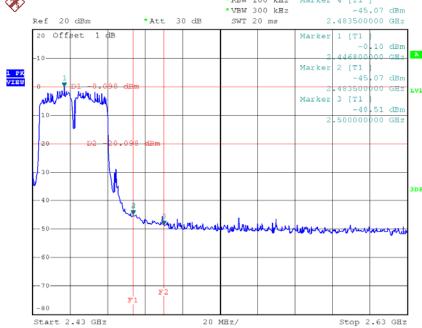






Date: 13.JAN.2015 18:55:38

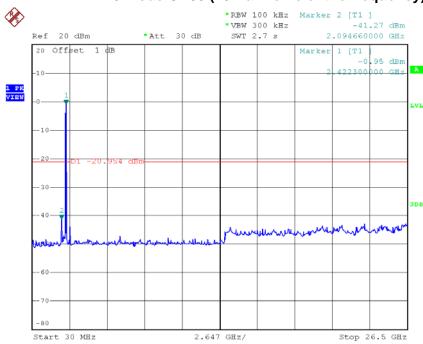
# TX HT40 mode CH09 \*RBW 100 kHz Marker 4 [T1] \*VBW 300 kHz -45.( Ref 20 dBm \*Att 30 dB SWT 20 ms 2.48350000



Date: 13.JAN.2015 18:57:42

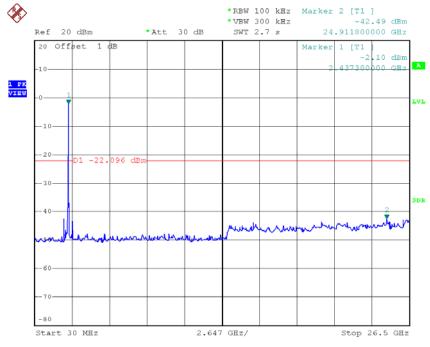






Date: 13.JAN.2015 18:55:31

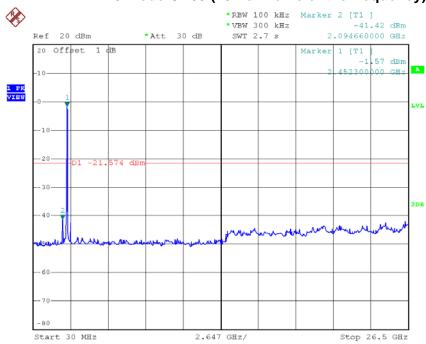
# TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 18:56:40







Date: 13.JAN.2015 18:57:35



ATTACHMENT H - POWER SPECTRAL DENSITY							

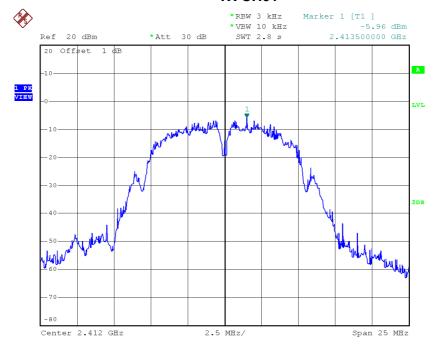
Report No.: BTL-FCCP-1-1501C010 Page 129 of 143



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

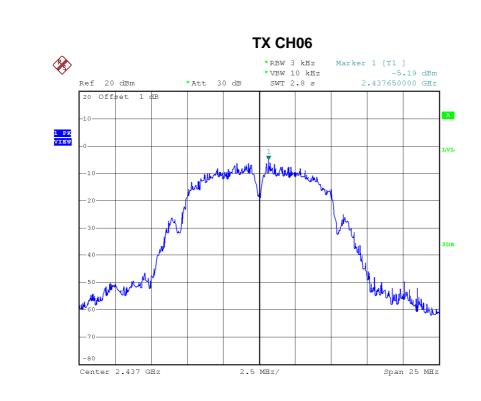
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.96	0.25	8.00	Complies
2437	-5.19	0.30	8.00	Complies
2462	-6.41	0.23	8.00	Complies

#### TX CH01

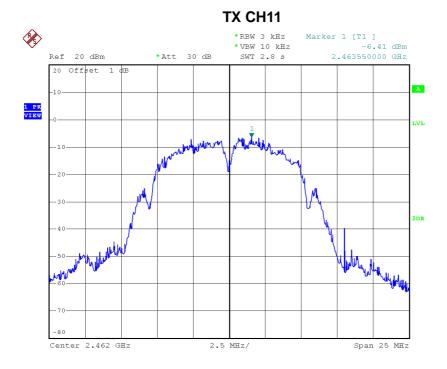


Date: 13.JAN.2015 18:35:57





Date: 13.JAN.2015 18:36:49



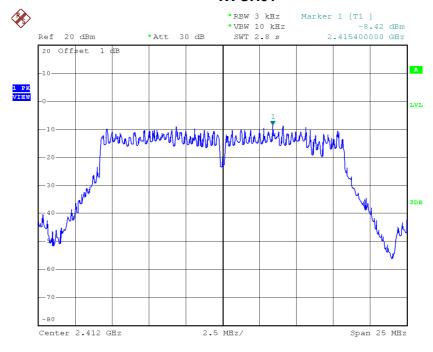
Date: 13.JAN.2015 18:38:02



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

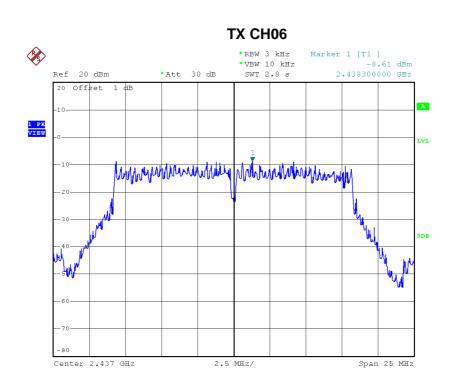
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.42	0.14	8.00	Complies
2437	-8.61	0.14	8.00	Complies
2462	-8.15	0.15	8.00	Complies

#### TX CH01



Date: 13.JAN.2015 18:38:55





Date: 13.JAN.2015 18:39:49

# \*RBW 3 kHz \*VBW 10 kHz -8.15 dBm \*Att 30 dB SWT 2.8 s 2.465450000 GHz 20 Offset 1 dB -10 -20 -30 -30 -60 -60 -70 -80 Center 2.462 GHz 2.5 MHz/ Span 25 MHz

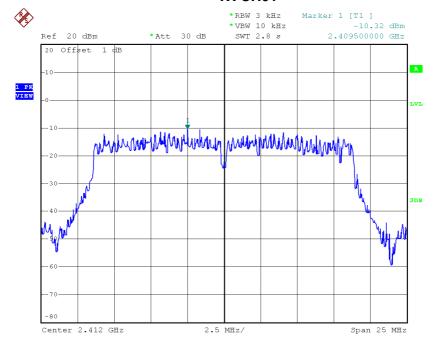
Date: 13.JAN.2015 18:40:44



#### Test Mode: TX N-20M Mode\_CH01/06/11\_ANT 1

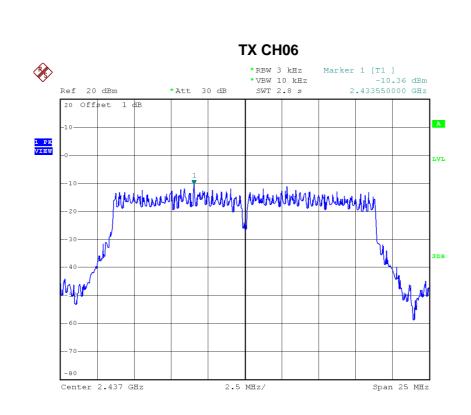
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.32	0.09	8.00	Complies
2437	-10.36	0.09	8.00	Complies
2462	-11.71	0.07	8.00	Complies

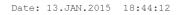
#### TX CH01

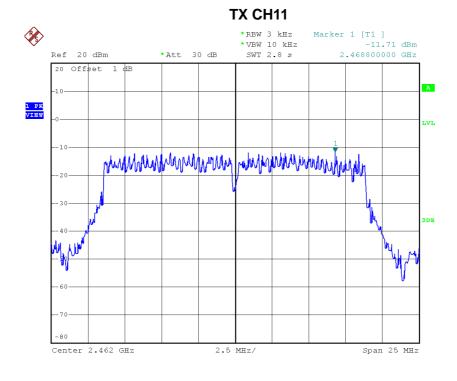


Date: 13.JAN.2015 18:42:18









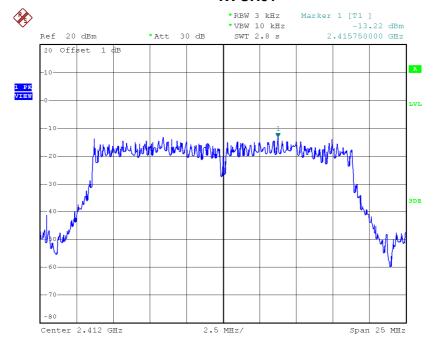
Date: 13.JAN.2015 18:46:41



#### Test Mode: TX N-20M Mode\_CH01/06/11\_ANT 2

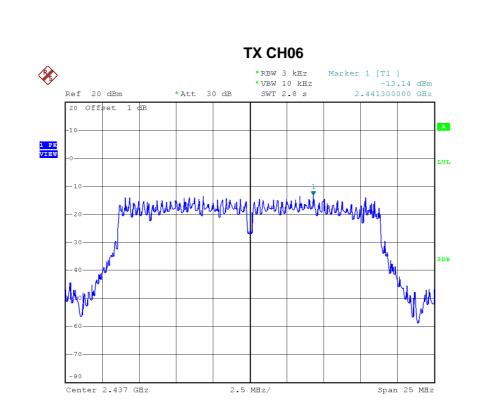
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.22	0.05	8.00	Complies
2437	-13.14	0.05	8.00	Complies
2462	-12.73	0.05	8.00	Complies

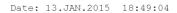
#### TX CH01



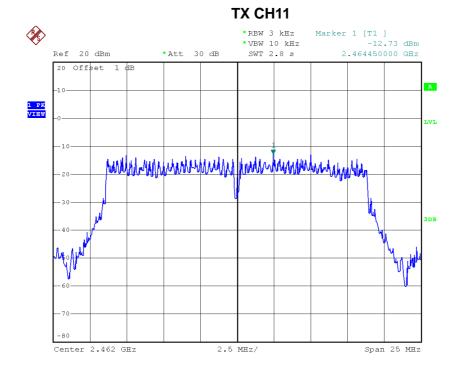
Date: 13.JAN.2015 18:47:48







Date: 13.JAN.2015 18:50:04





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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.52	0.14	8.00	Complies
2437	-8.52	0.14	8.00	Complies
2462	-9.18	0.12	8.00	Complies

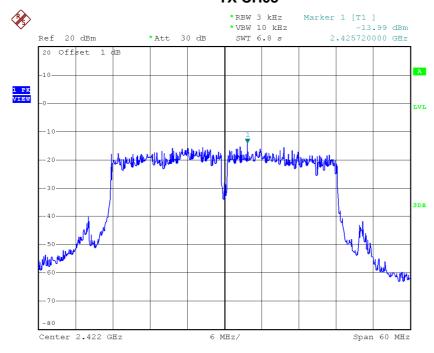
Report No.: BTL-FCCP-1-1501C010 Page 138 of 143



Test Mode: TX N-40M Mode\_CH03/06/09\_ANT 1

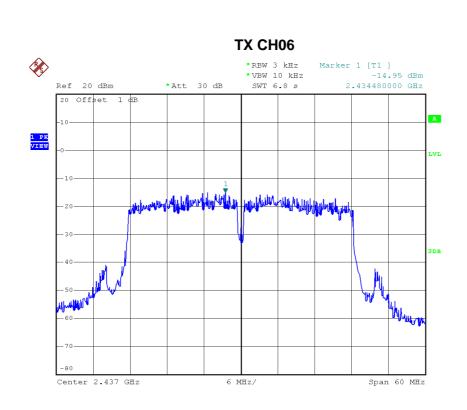
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-13.99	0.04	8.00	Complies
2437	-14.95	0.03	8.00	Complies
2452	-14.58	0.03	8.00	Complies

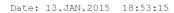
#### **TX CH03**

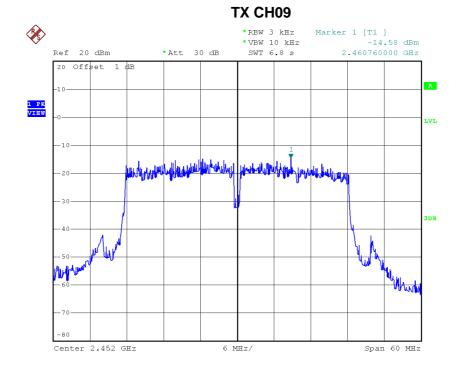


Date: 13.JAN.2015 18:52:09









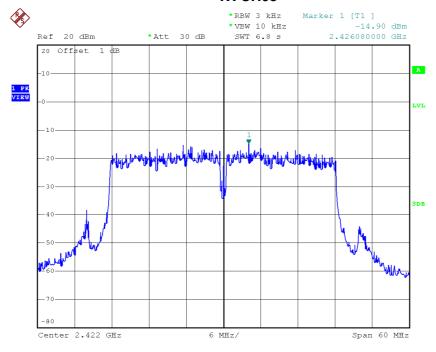
Date: 13.JAN.2015 18:54:31



Test Mode: TX N-40M Mode\_CH03/06/09\_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-14.90	0.03	8.00	Complies
2437	-15.79	0.03	8.00	Complies
2452	-15.66	0.03	8.00	Complies

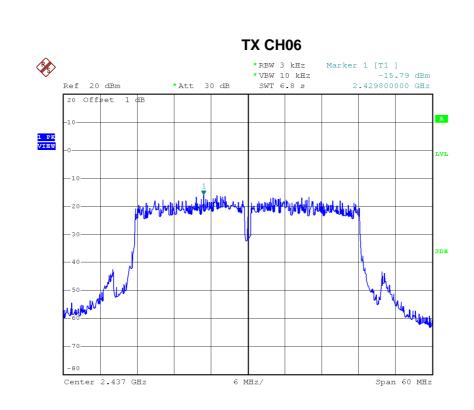
#### TX CH03

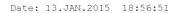


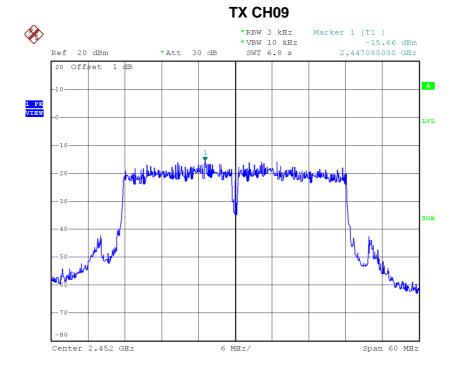
Date: 13.JAN.2015 18:55:50

Report No.: BTL-FCCP-1-1501C010 Page 141 of 143









Date: 13.JAN.2015 18:57:54



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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-11.41	0.07	8.00	Complies
2437	-12.34	0.06	8.00	Complies
2452	-12.08	0.06	8.00	Complies

Report No.: BTL-FCCP-1-1501C010 Page 143 of 143