

# FCC Radio Test Report

## FCC ID: X4YKRNS3V2

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

**Project No.** : 1605C184  
**Equipment** : Universal Range Extender  
**Model Name** : AEIEL304U1  
**Applicant** : NEXXT SOLUTIONS  
**Address** : 3505 N.W 107TH AVE, MIAMI, FL,33178

**Date of Receipt** : May 24, 2016  
**Date of Test** : May 24, 2016 ~ Jun. 07, 2016  
**Issued Date** : Jun. 08, 2016  
**Tested by** : BTL Inc.

**Testing Engineer** : Shawn Xiao  
(Shawn Xiao)

**Technical Manager** : David Mao  
(David Mao)

**Authorized Signatory** : Steven Lu  
(Steven Lu)

**B T L I N C .**

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

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

## **Declaration**

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

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

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

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

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

## **Limitation**

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

Table of Contents	Page
<b>1 . CERTIFICATION</b>	<b>6</b>
<b>2 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
<b>2.1 TEST FACILITY</b>	<b>8</b>
<b>2.2 MEASUREMENT UNCERTAINTY</b>	<b>8</b>
<b>3 . GENERAL INFORMATION</b>	<b>9</b>
<b>3.1 GENERAL DESCRIPTION OF EUT</b>	<b>9</b>
<b>3.2 DESCRIPTION OF TEST MODES</b>	<b>11</b>
<b>3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING</b>	<b>13</b>
<b>3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED</b>	<b>14</b>
<b>3.5 DESCRIPTION OF SUPPORT UNITS</b>	<b>14</b>
<b>4 . EMC EMISSION TEST</b>	<b>15</b>
<b>4.1 CONDUCTED EMISSION MEASUREMENT</b>	<b>15</b>
<b>4.1.1 POWER LINE CONDUCTED EMISSION LIMITS</b>	<b>15</b>
<b>4.1.2 TEST PROCEDURE</b>	<b>15</b>
<b>4.1.3 DEVIATION FROM TEST STANDARD</b>	<b>15</b>
<b>4.1.4 TEST SETUP</b>	<b>16</b>
<b>4.1.5 EUT OPERATING CONDITIONS</b>	<b>16</b>
<b>4.1.6 EUT TEST CONDITIONS</b>	<b>16</b>
<b>4.1.7 TEST RESULTS</b>	<b>16</b>
<b>4.2 RADIATED EMISSION MEASUREMENT</b>	<b>17</b>
<b>4.2.1 RADIATED EMISSION LIMITS</b>	<b>17</b>
<b>4.2.2 TEST PROCEDURE</b>	<b>18</b>
<b>4.2.3 DEVIATION FROM TEST STANDARD</b>	<b>18</b>
<b>4.2.4 TEST SETUP</b>	<b>19</b>
<b>4.2.5 EUT OPERATING CONDITIONS</b>	<b>20</b>
<b>4.2.6 EUT TEST CONDITIONS</b>	<b>20</b>
<b>4.2.7 TEST RESULTS (9KHZ TO 30MHZ)</b>	<b>20</b>
<b>4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)</b>	<b>20</b>
<b>4.2.9 TEST RESULTS (ABOVE 1000 MHZ)</b>	<b>20</b>
<b>5 . BANDWIDTH TEST</b>	<b>21</b>
<b>5.1 APPLIED PROCEDURES</b>	<b>21</b>
<b>5.1.1 TEST PROCEDURE</b>	<b>21</b>
<b>5.1.2 DEVIATION FROM STANDARD</b>	<b>21</b>
<b>5.1.3 TEST SETUP</b>	<b>21</b>
<b>5.1.4 EUT OPERATION CONDITIONS</b>	<b>21</b>
<b>5.1.5 EUT TEST CONDITIONS</b>	<b>21</b>
<b>5.1.6 TEST RESULTS</b>	<b>21</b>
<b>6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST</b>	<b>22</b>

Table of Contents	Page
<b>6.1 APPLIED PROCEDURES / LIMIT</b>	<b>22</b>
<b>6.1.1 TEST PROCEDURE</b>	<b>22</b>
<b>6.1.2 DEVIATION FROM STANDARD</b>	<b>22</b>
<b>6.1.3 TEST SETUP</b>	<b>22</b>
<b>6.1.4 EUT OPERATION CONDITIONS</b>	<b>22</b>
<b>6.1.5 EUT TEST CONDITIONS</b>	<b>22</b>
<b>6.1.6 TEST RESULTS</b>	<b>22</b>
<b>7 . ANTENNA CONDUCTED SPURIOUS EMISSION</b>	<b>23</b>
<b>7.1 APPLIED PROCEDURES / LIMIT</b>	<b>23</b>
<b>7.1.1 TEST PROCEDURE</b>	<b>23</b>
<b>7.1.2 DEVIATION FROM STANDARD</b>	<b>23</b>
<b>7.1.3 TEST SETUP</b>	<b>23</b>
<b>7.1.4 EUT OPERATION CONDITIONS</b>	<b>23</b>
<b>7.1.5 EUT TEST CONDITIONS</b>	<b>23</b>
<b>7.1.6 TEST RESULTS</b>	<b>23</b>
<b>8 . POWER SPECTRAL DENSITY TEST</b>	<b>24</b>
<b>8.1 APPLIED PROCEDURES / LIMIT</b>	<b>24</b>
<b>8.1.1 TEST PROCEDURE</b>	<b>24</b>
<b>8.1.2 DEVIATION FROM STANDARD</b>	<b>24</b>
<b>8.1.3 TEST SETUP</b>	<b>24</b>
<b>8.1.4 EUT OPERATION CONDITIONS</b>	<b>24</b>
<b>8.1.5 EUT TEST CONDITIONS</b>	<b>24</b>
<b>8.1.6 TEST RESULTS</b>	<b>24</b>
<b>9 . MEASUREMENT INSTRUMENTS LIST</b>	<b>25</b>
<b>10 . EUT TEST PHOTO</b>	<b>27</b>
<b>ATTACHMENT A - CONDUCTED EMISSION</b>	<b>31</b>
<b>ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)</b>	<b>34</b>
<b>ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)</b>	<b>36</b>
<b>ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)</b>	<b>43</b>
<b>ATTACHMENT E - BANDWIDTH</b>	<b>92</b>
<b>ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER</b>	<b>101</b>
<b>ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION</b>	<b>105</b>
<b>ATTACHMENT H - POWER SPECTRAL DENSITY</b>	<b>124</b>

**REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1605C184	Original Issue.	Jun. 08, 2016

## 1. CERTIFICATION

Equipment : Universal Range Extender  
Brand Name : NEXXT  
Model Name : AEIEL304U1  
Applicant : NEXXT SOLUTIONS  
Manufacturer : NEXXT SOLUTIONS  
Address : 3505 N.W 107TH AVE, MIAMI, FL,33178  
Date of Test : May 24, 2016 ~ Jun. 07, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1605C184) 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).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

NOTE:

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 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 BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cisp}$  requirement.

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Universal Range Extender	
Brand Name	NEXXT	
Model Name	AEIEL304U1	
Model Difference	NA	
Product Description	Operation Frequency	2412~2462 MHz
	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: 23.76 dBm 802.11g: 26.32 dBm 802.11n(20MHz): 28.87 dBm 802.11n(40MHz): 25.10 dBm
Power Source	AC Mains.	
Power Rating	I/P: 100-240V~ 50/60Hz 0.1A	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH11 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	N/A	N/A	Printed	N/A	2	TX/RX
2	N/A	N/A	Printed	N/A	2	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 = GANT, that is Directional gain=2.
- (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)

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

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

<b>6dB Spectrum Bandwidth</b>	
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

<b>Maximum Conducted Output Power</b>	
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

<b>Power Spectral Density</b>	
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:

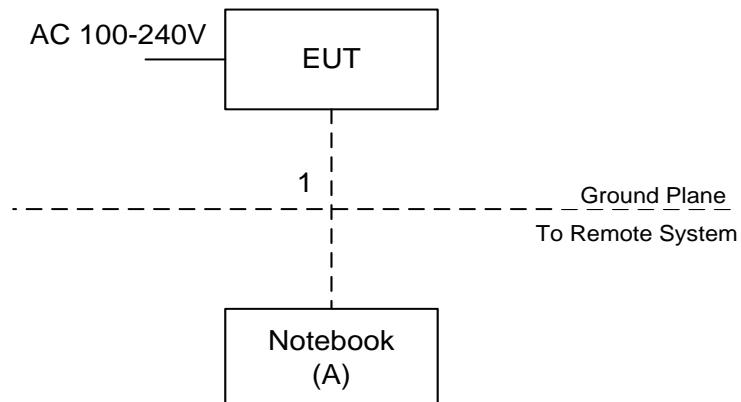
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
802.11g mode: OFDM (6Mbps)  
802.11n HT20 mode : BPSK (13Mbps)  
802.11n HT40 mode : BPSK (27Mbps)
- For radiated emission tests, the highest output powers were set for final test.
- (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%.

### 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		
Frequency (MHz)	2412	2437	2462
802.11b	77	76	72
802.11g	64	80	65
802.11n (20MHz)	58	80	60
Frequency	2422	2437	2452
802.11n (40MHz)	48	56	54

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



### 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Notebook	Dell	DCSM 745	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

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

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

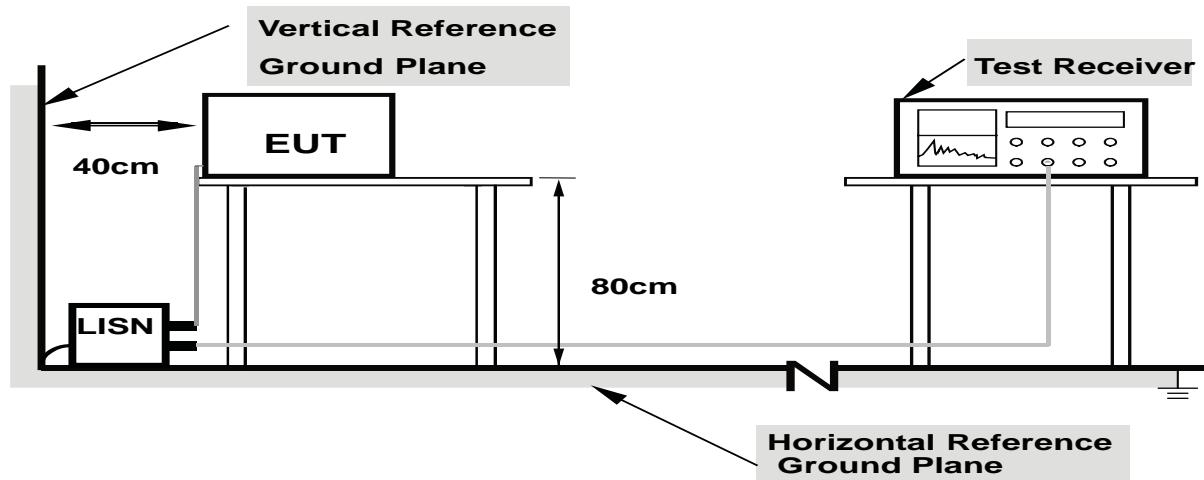
#### 4.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 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 cm from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

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

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

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

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

#### Notes:

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

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

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

#### 4.2.2 TEST PROCEDURE

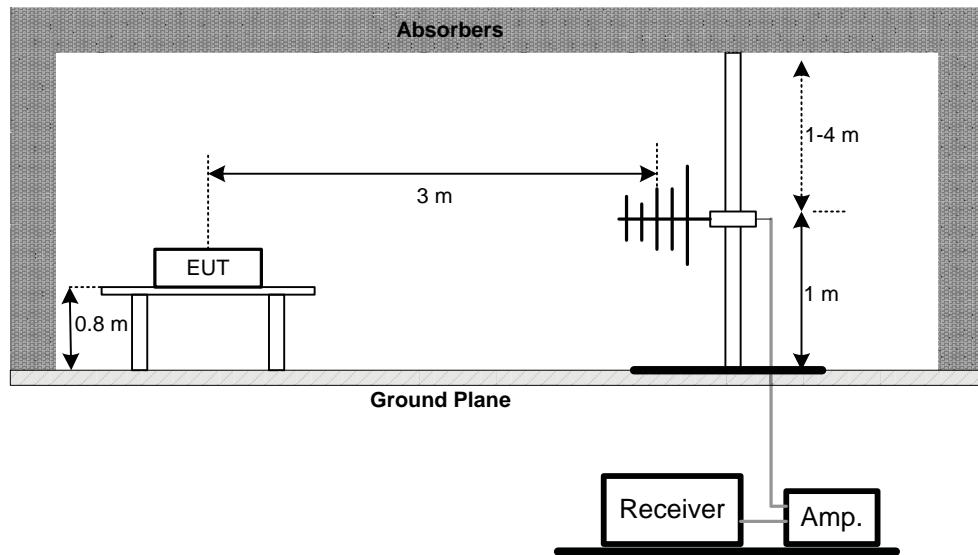
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

#### 4.2.3 DEVIATION FROM TEST STANDARD

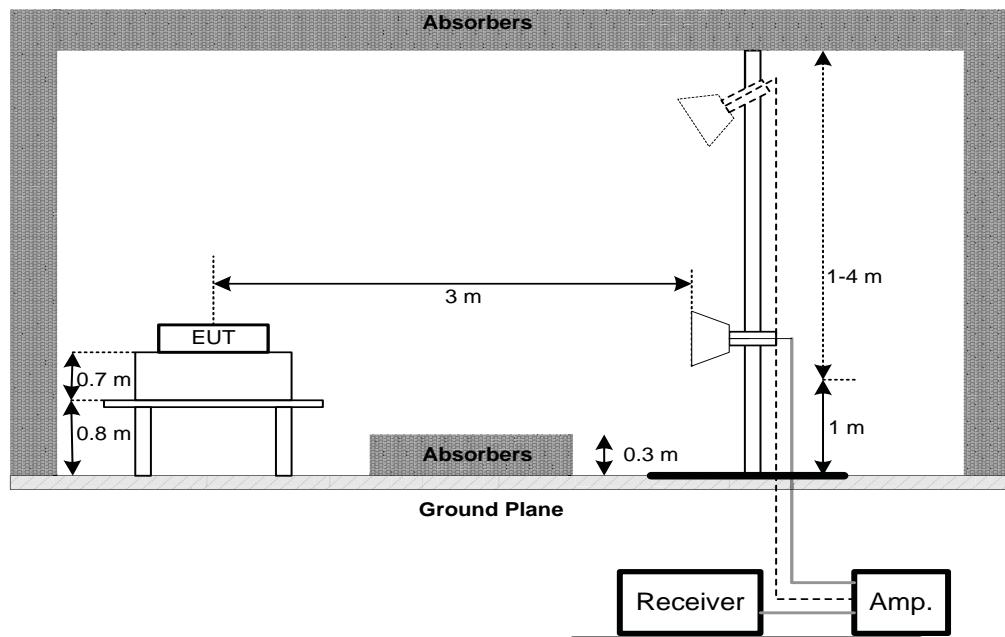
No deviation

#### 4.2.4 TEST SETUP

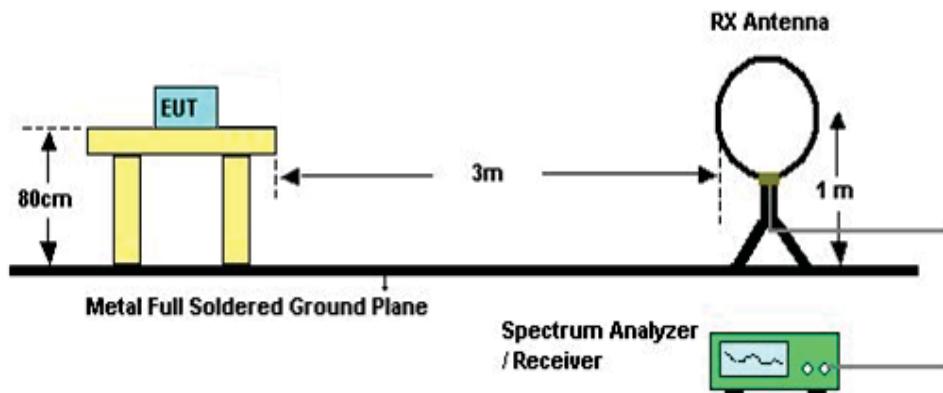
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



## (C) For Radiated Emissions Below 30MHz

**4.2.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.2.6 EUT TEST CONDITIONS**

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

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

Please refer to the 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 =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

**4.2.8 TEST RESULTS (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.

## 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

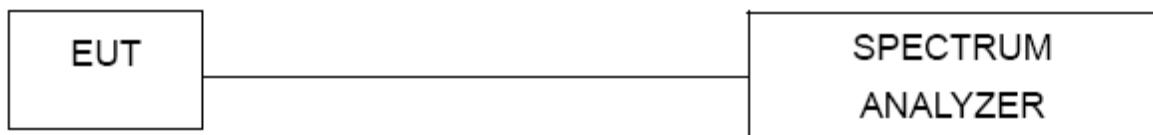
#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6.MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1APPLIED 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

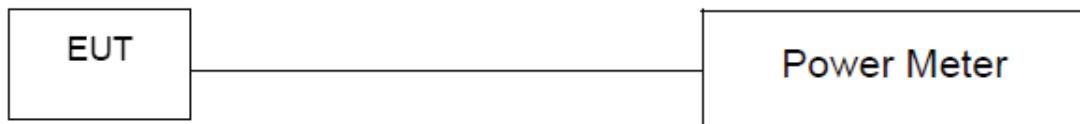
#### 6.1.1TEST PROCEDURE

- 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 KDB 662911 D01 Multiple Transmitter Output v02r01 and method 9.1.2 of FCC KDB 558074D01 DTS Meas Guidance v03r05.

#### 6.1.2DEVIATION FROM STANDARD

No deviation.

#### 6.1.3TEST SETUP



#### 6.1.4EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.1.5EUT TEST CONDITIONS

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

#### 6.1.6TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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

#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
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. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 28, 2016
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF78020841 6	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	ETS	3115	00075789	Mar. 27, 2017
9	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
10	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
11	Test Cable	emci	EMC104-SM-S M-10000(1GHz –26.5GHz)	C-68	Jun. 28, 2016
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

<b>6dB Bandwidth Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

<b>Peak Output Power Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series power meter	Agilent	N1911A	MY45100473	Oct. 26, 2016
2	Wideband power sensor	Agilent	N1921A	MY51100041	Oct. 26, 2016

<b>Antenna Conducted Spurious Emission Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

<b>Power Spectral Density Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

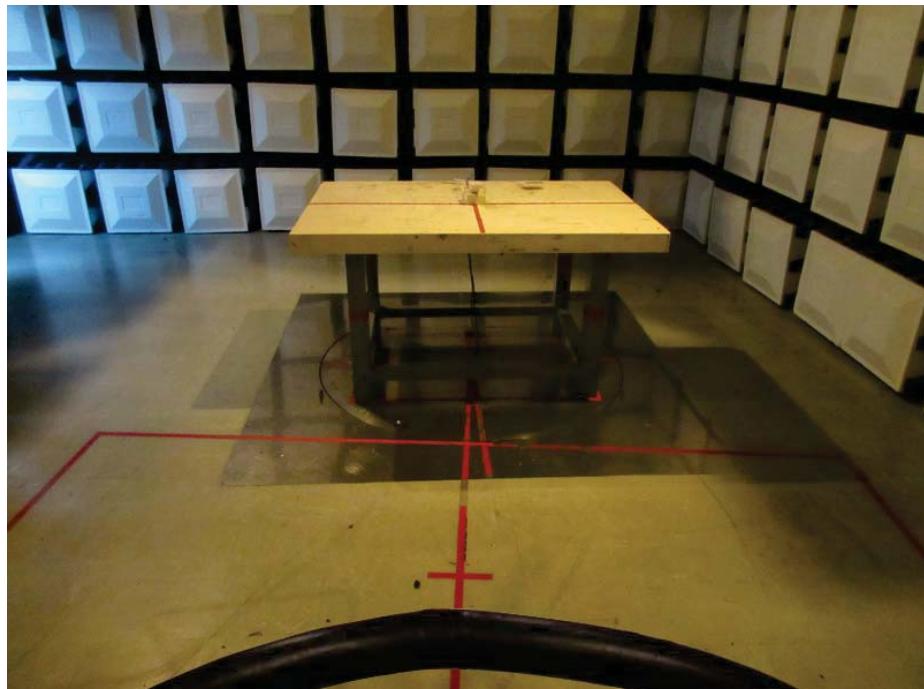
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

**10. EUT TEST PHOTO****Conducted Measurement Photos**

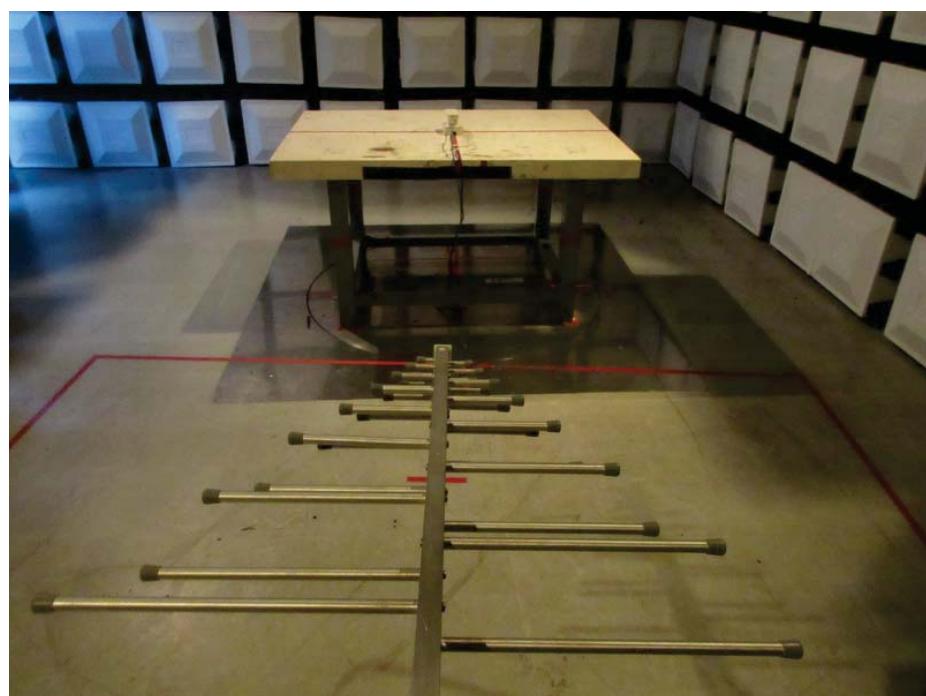
### Radiated Measurement Photos

9KHz to 30MHz



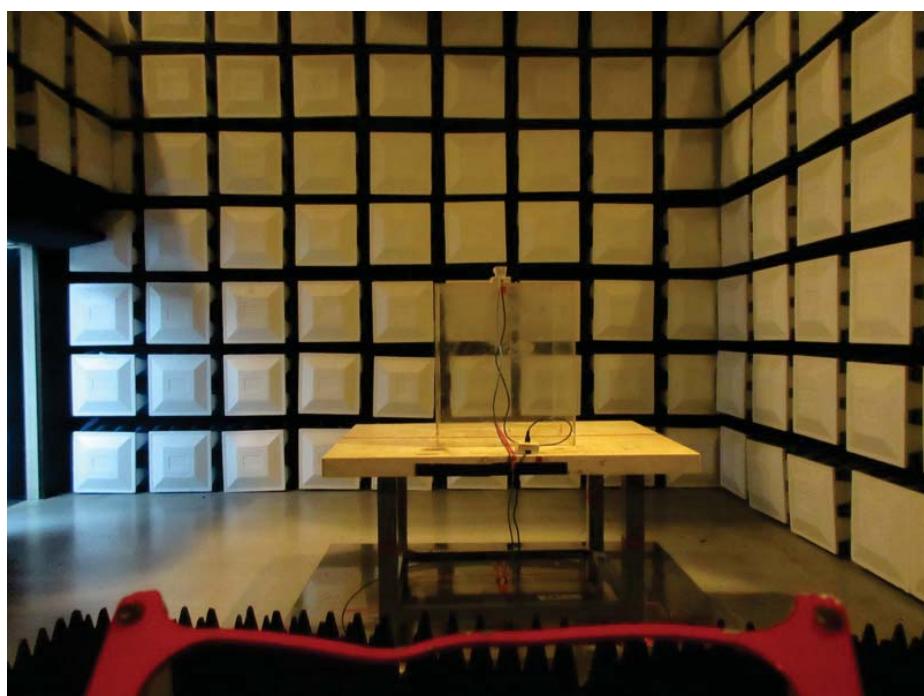
### Radiated Measurement Photos

30MHz to 1000MHz



### Radiated Measurement Photos

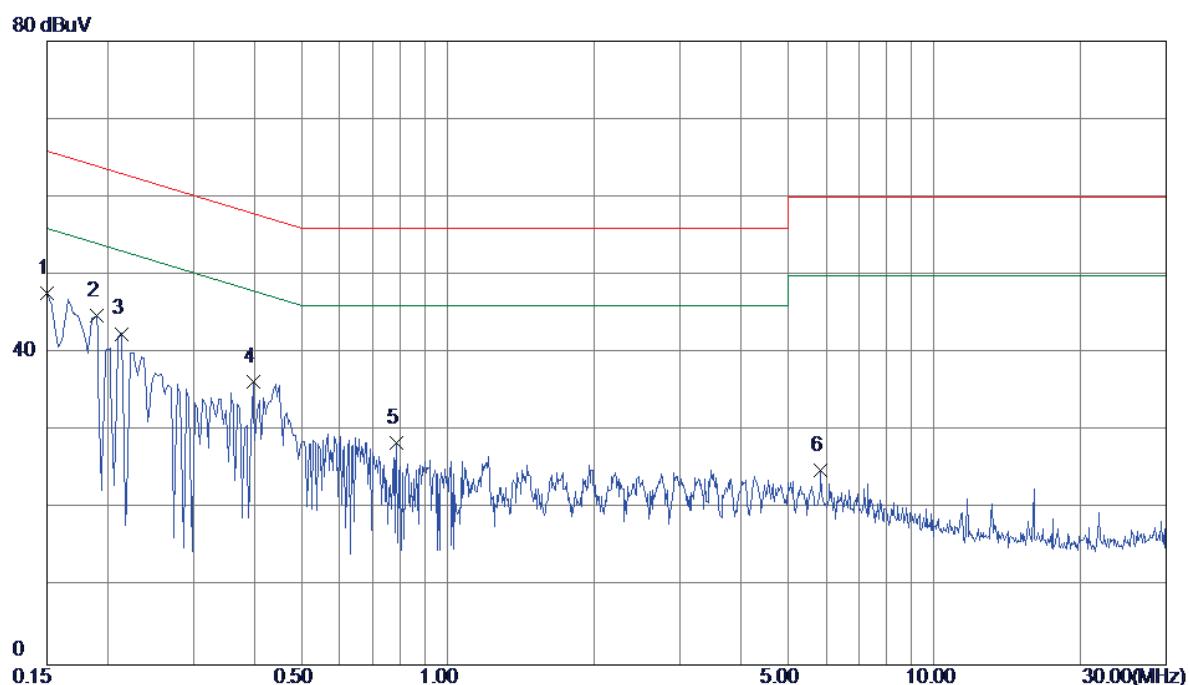
Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

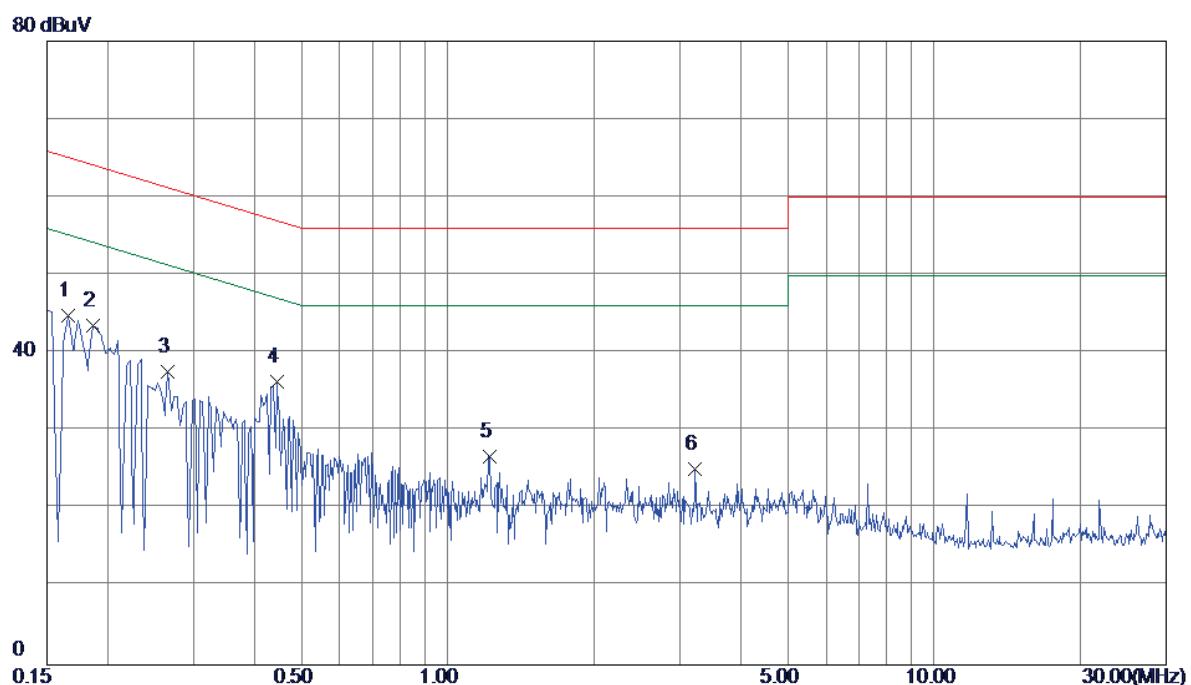
### Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	38.19	9.52	47.71	66.00	-18.29	Peak	
2	0.1900	35.32	9.53	44.85	64.04	-19.19	Peak	
3	0.2140	32.95	9.53	42.48	63.05	-20.57	Peak	
4	0.3980	26.82	9.54	36.36	57.90	-21.54	Peak	
5	0.7860	18.73	9.74	28.47	56.00	-27.53	Peak	
6	5.8380	14.95	10.06	25.01	60.00	-34.99	Peak	

Test Mode : Normal Link

### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1660	35.36	9.44	44.80	65.16	-20.36	Peak	
2	0.1860	34.05	9.48	43.53	64.21	-20.68	Peak	
3	0.2660	28.13	9.53	37.66	61.24	-23.58	Peak	
4	0.4460	26.87	9.44	36.31	56.95	-20.64	Peak	
5	1.2220	17.07	9.67	26.74	56.00	-29.26	Peak	
6	3.2300	15.28	9.81	25.09	56.00	-30.91	Peak	

## ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX B MODE CHANNEL 01
------------	----------------------

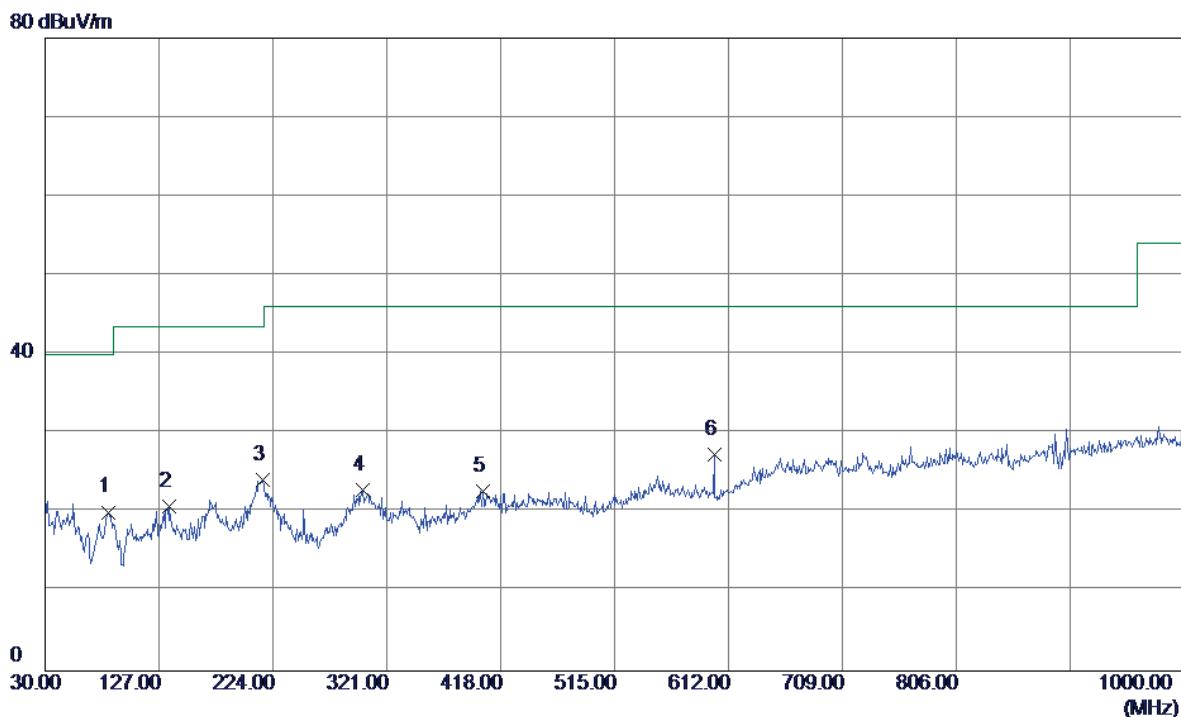
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0102	0°	13.21	24.9207	38.1307	127.4322	-89.3016	AVG
0.0102	0°	14.37	24.9207	39.2907	147.4322	-108.1416	PEAK
0.0232	0°	6.28	24.0973	30.3773	120.2945	-89.9171	AVG
0.0232	0°	8.35	24.0973	32.4473	140.2945	-107.8471	PEAK
0.0381	0°	3.26	23.1537	26.4137	115.9857	-89.5721	AVG
0.0381	0°	5.19	23.1537	28.3437	135.9857	-107.6421	PEAK
0.0623	0°	1.62	22.1540	23.7740	111.7145	-87.9405	AVG
0.0623	0°	2.7	22.1540	24.8540	131.7145	-106.8605	PEAK
0.557	0°	19.84	19.9824	39.8224	72.6871	-32.8647	QP
1.9373	0°	23.38	19.5063	42.8863	69.5400	-26.6537	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0112	90°	13.32	24.3000	37.6200	126.6199	-88.9999	AVG
0.0112	90°	14.67	24.3000	38.9700	146.6199	-107.6499	PEAK
0.0366	90°	7.08	23.2487	30.3287	116.3346	-86.0059	AVG
0.0366	90°	8.59	23.2487	31.8387	136.3346	-104.4959	PEAK
0.0478	90°	5.11	22.5393	27.6493	114.0157	-86.3663	AVG
0.0478	90°	6.23	22.5393	28.7693	134.0157	-105.2463	PEAK
0.0562	90°	1.41	22.2760	23.6860	112.6095	-88.9235	AVG
0.0562	90°	2.75	22.2760	25.0260	132.6095	-107.5835	PEAK
0.6364	90°	22.36	20.2365	42.5965	71.5296	-28.9331	QP
2.0013	90°	24.18	19.4992	43.6792	69.5400	-25.8608	QP

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

Test Mode: TX B MODE CHANNEL 01

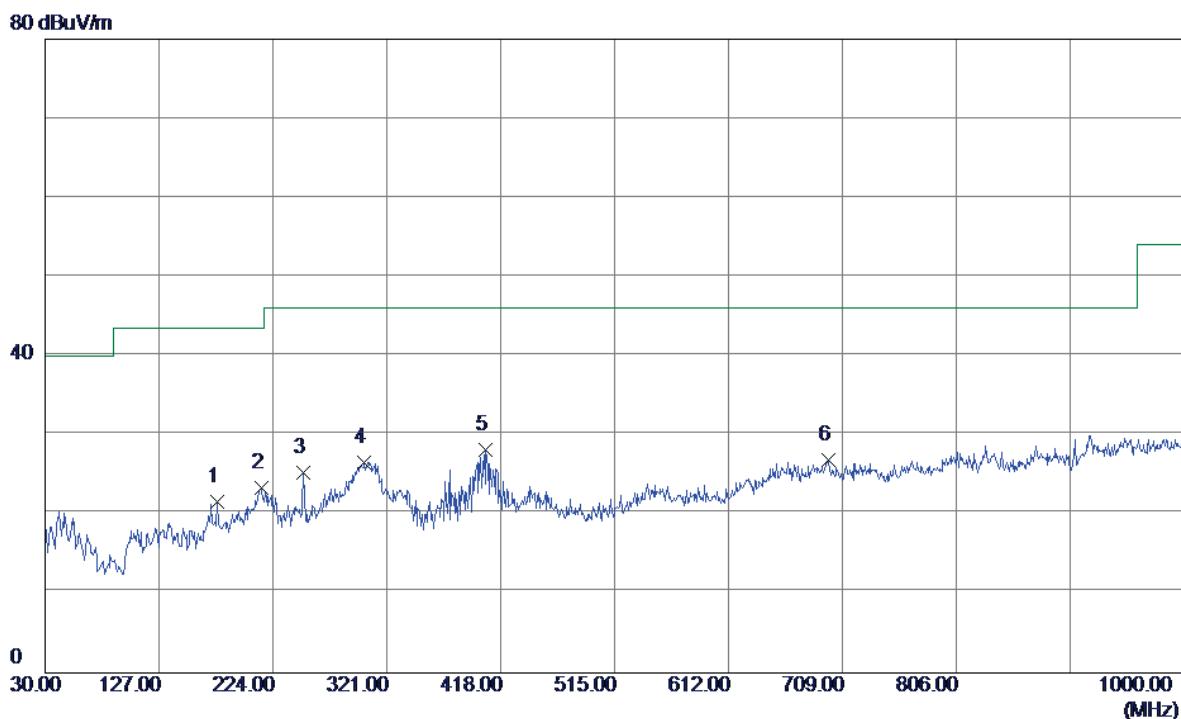
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	84.3200	36.30	-16.22	20.08	40.00	-19.92	Peak	
2	135.7300	32.35	-11.52	20.83	43.50	-22.67	Peak	
3	215.7550	38.14	-14.00	24.14	43.50	-19.36	Peak	
4	300.1450	32.91	-9.96	22.95	46.00	-23.05	Peak	
5	402.4800	29.96	-7.20	22.76	46.00	-23.24	Peak	
6 *	599.8750	32.40	-5.10	27.30	46.00	-18.70	Peak	

Test Mode: TX B MODE CHANNEL 01

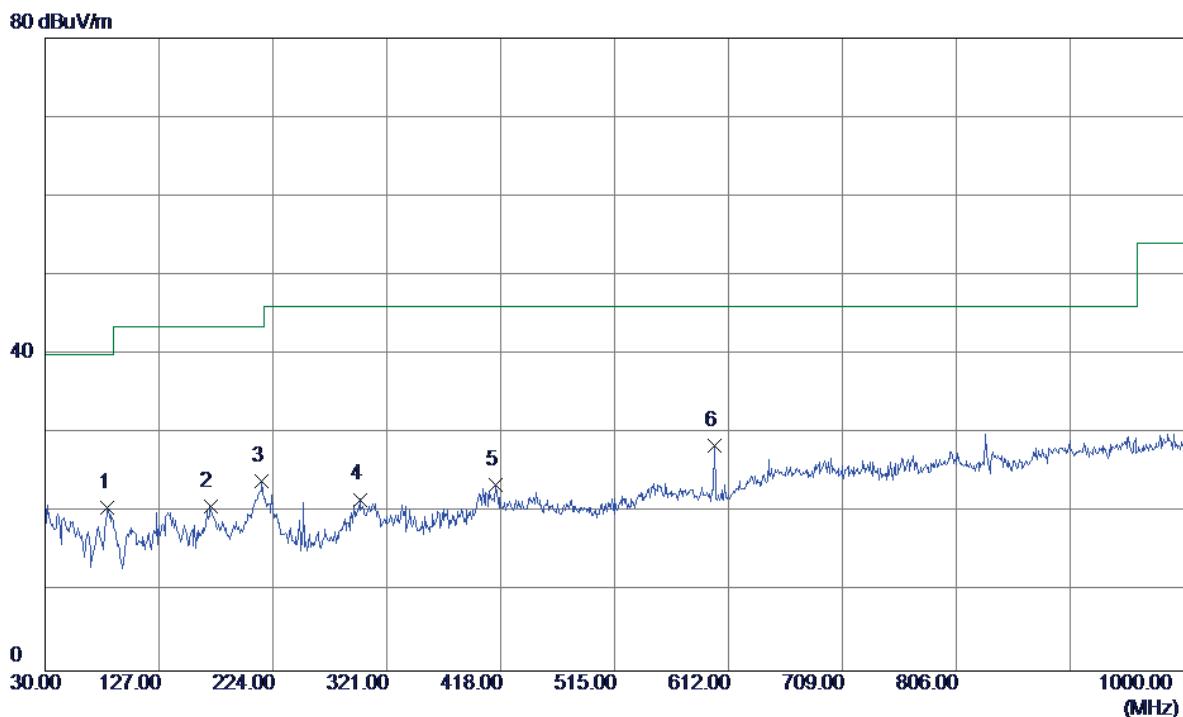
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	176.9550	33.34	-11.69	21.65	43.50	-21.85	Peak	
2	213.8150	37.46	-14.03	23.43	43.50	-20.07	Peak	
3	250.1900	38.61	-13.33	25.28	46.00	-20.72	Peak	
4	302.0850	36.57	-9.99	26.58	46.00	-19.42	Peak	
5 *	405.3900	35.37	-7.19	28.18	46.00	-17.82	Peak	
6	696.8750	27.85	-0.95	26.90	46.00	-19.10	Peak	

Test Mode: TX B MODE CHANNEL 06

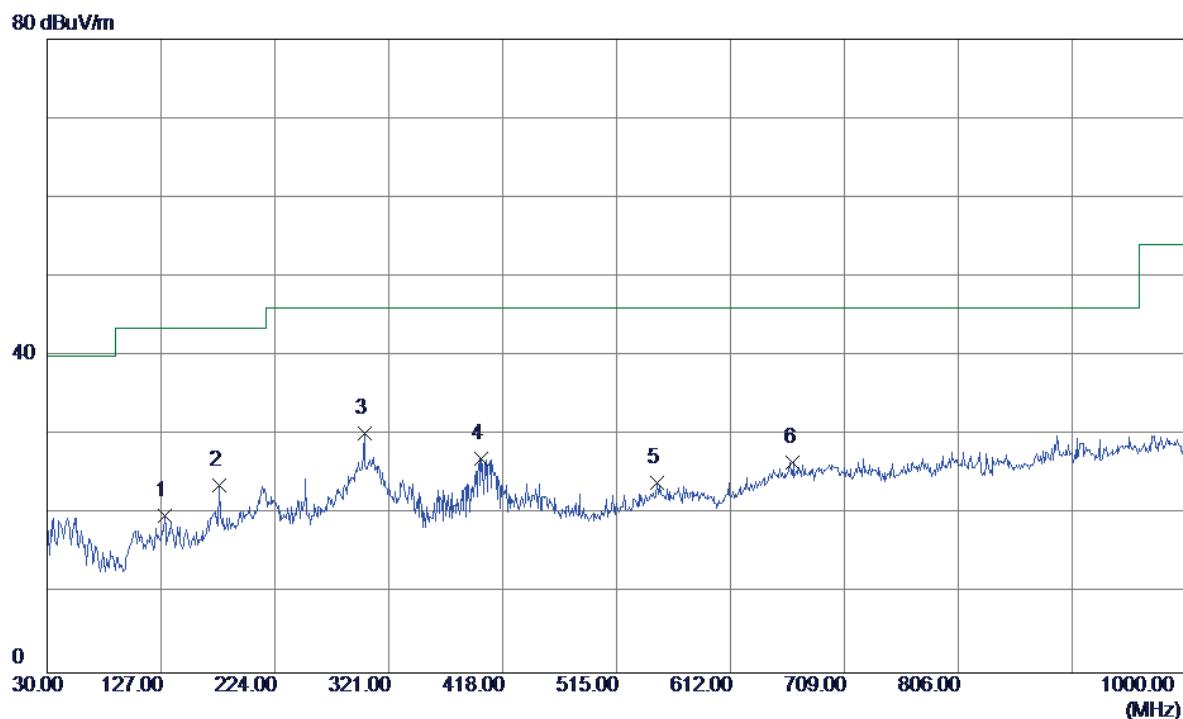
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	83.3500	36.91	-16.32	20.59	40.00	-19.41	Peak	
2	170.6500	31.60	-10.78	20.82	43.50	-22.68	Peak	
3	214.3000	38.01	-14.02	23.99	43.50	-19.51	Peak	
4	298.2049	31.65	-9.97	21.68	46.00	-24.32	Peak	
5	414.1200	30.64	-7.17	23.47	46.00	-22.53	Peak	
6 *	599.8750	33.59	-5.10	28.49	46.00	-17.51	Peak	

Test Mode: TX B MODE CHANNEL 06

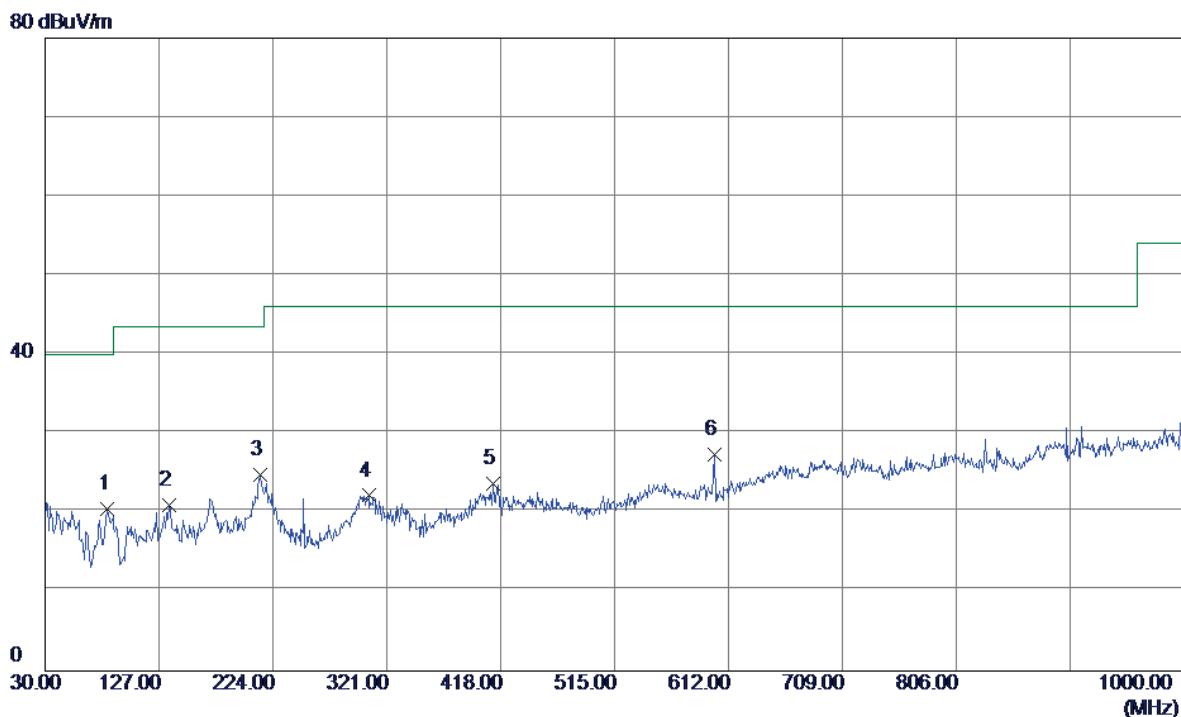
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	130.3950	31.03	-11.12	19.91	43.50	-23.59	Peak	
2	176.9550	35.39	-11.69	23.70	43.50	-19.80	Peak	
3 *	300.1450	40.19	-9.96	30.23	46.00	-15.77	Peak	
4	399.5700	34.35	-7.24	27.11	46.00	-18.89	Peak	
5	549.4350	28.67	-4.68	23.99	46.00	-22.01	Peak	
6	665.3500	28.12	-1.58	26.54	46.00	-19.46	Peak	

Test Mode: TX B MODE CHANNEL 11

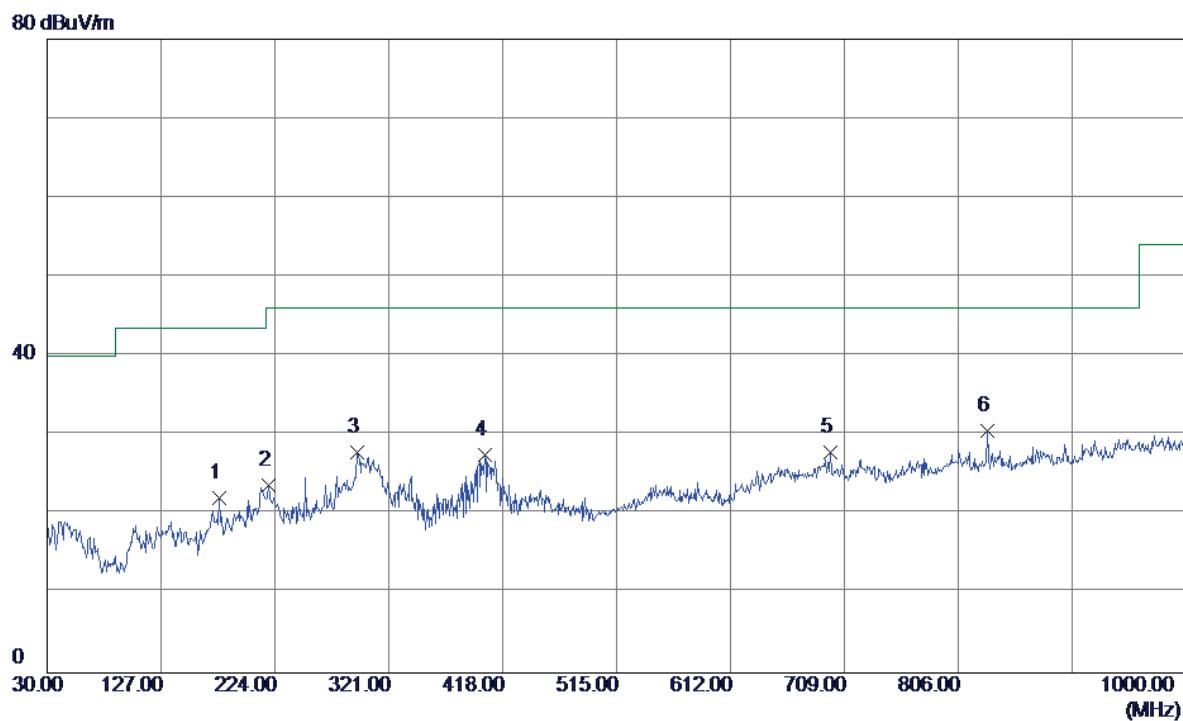
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	83.3500	36.77	-16.32	20.45	40.00	-19.55	Peak	
2	135.7300	32.46	-11.52	20.94	43.50	-22.56	Peak	
3	212.8450	38.85	-14.04	24.81	43.50	-18.69	Peak	
4	305.9650	32.22	-10.06	22.16	46.00	-23.84	Peak	
5	411.2100	30.79	-7.18	23.61	46.00	-22.39	Peak	
6 *	599.8750	32.51	-5.10	27.41	46.00	-18.59	Peak	

Test Mode: TX B MODE CHANNEL 11

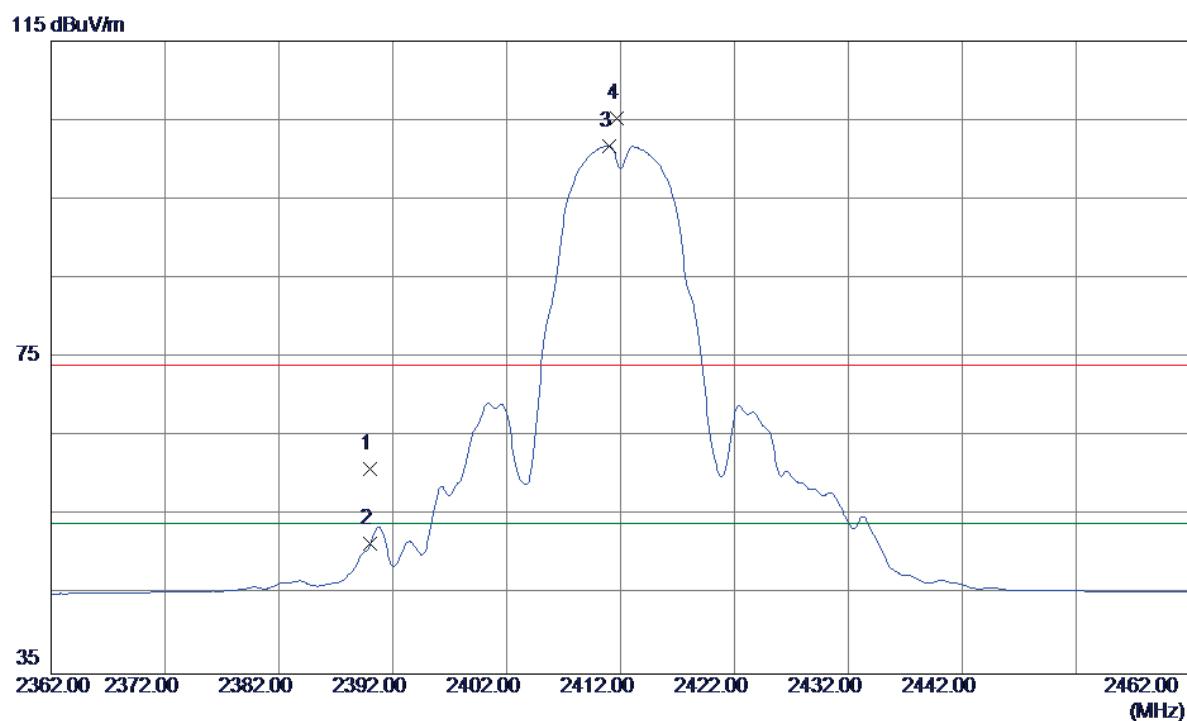
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	176.9550	33.83	-11.69	22.14	43.50	-21.36	Peak	
2	218.6650	37.68	-13.96	23.72	46.00	-22.28	Peak	
3	294.3250	37.77	-9.98	27.79	46.00	-18.21	Peak	
4	402.4800	34.70	-7.20	27.50	46.00	-18.50	Peak	
5	696.8750	28.75	-0.95	27.80	46.00	-18.20	Peak	
6 *	831.2199	30.38	0.13	30.51	46.00	-15.49	Peak	

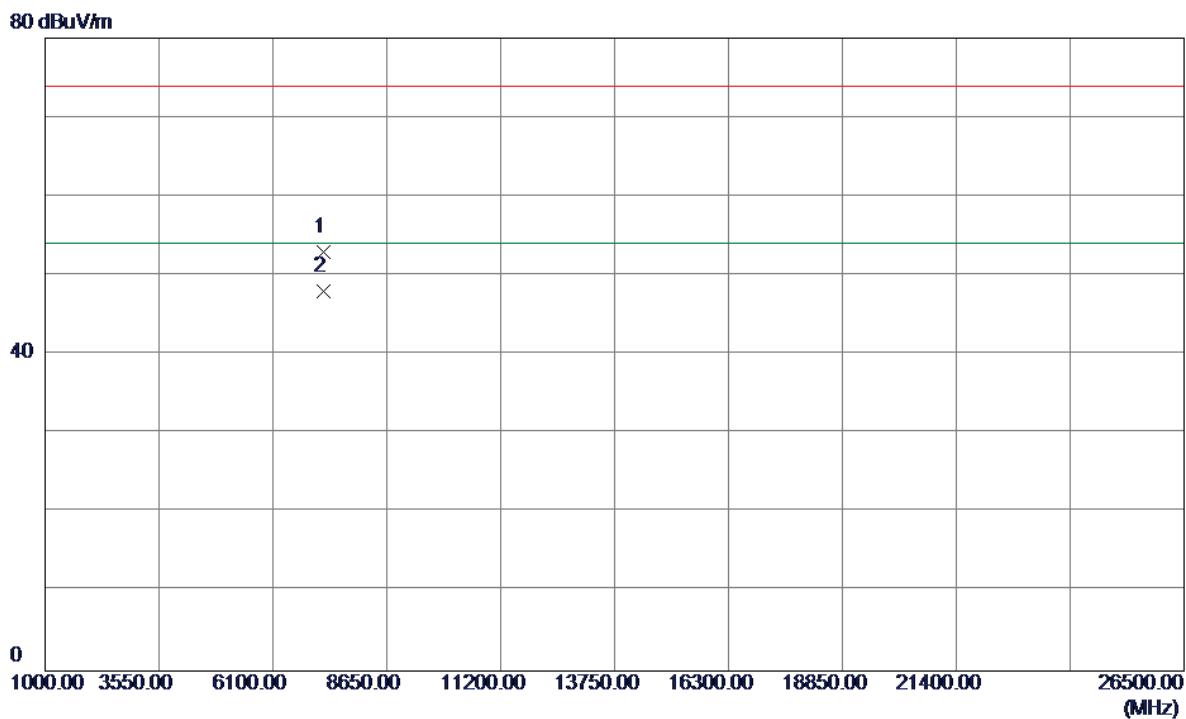
## ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

**Vertical**

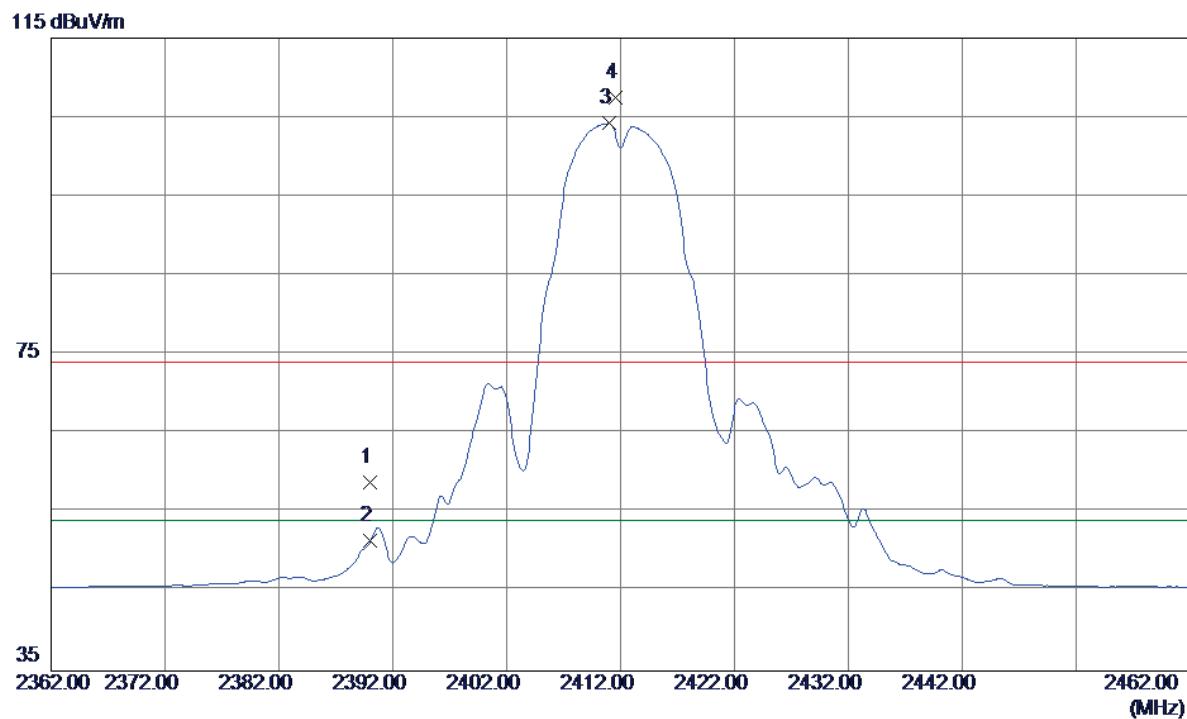
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.21	32.78	60.99	74.00	-13.01	Peak	
2	2390.0000	18.71	32.78	51.49	54.00	-2.51	AVG	
3 *	2410.9500	68.90	32.89	101.79	54.00	47.79	AVG	NO LIMIT
4	2411.6500	72.38	32.89	105.27	74.00	31.27	Peak	NO LIMIT

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

**Vertical**

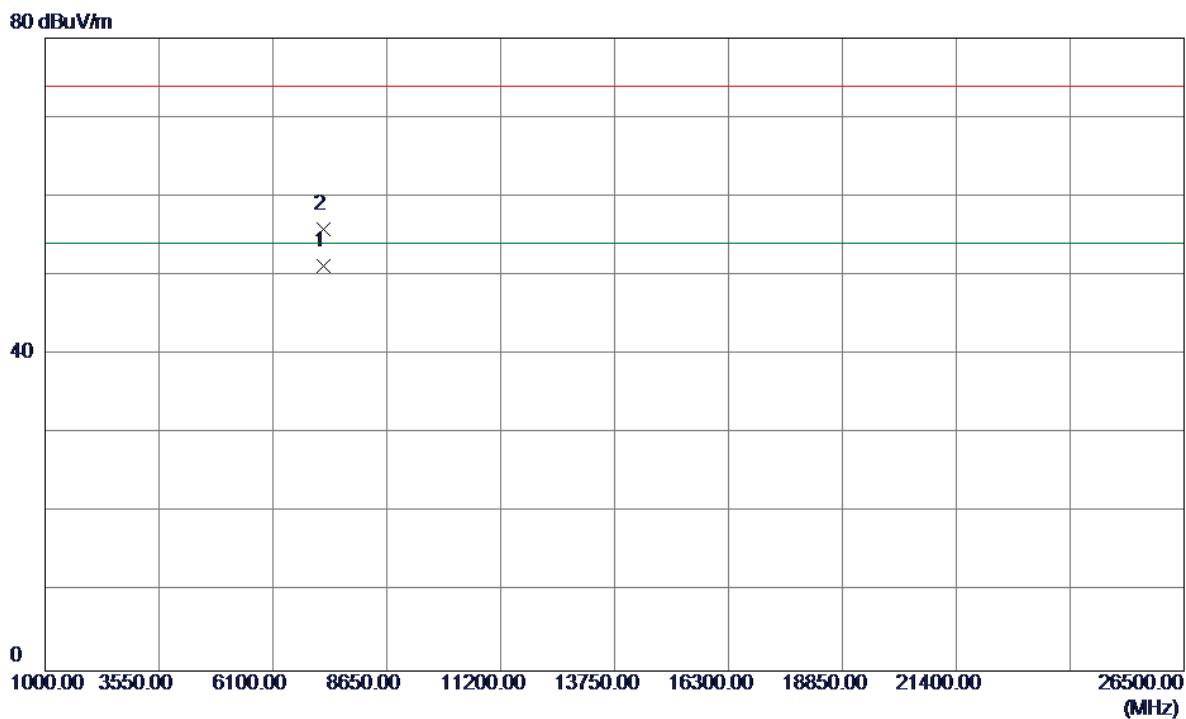
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7235.0780	43.08	9.82	52.90	74.00	-21.10	Peak	
2 *	7235.3750	38.17	9.82	47.99	54.00	-6.01	AVG	

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.12	32.78	58.90	74.00	-15.10	Peak	
2	2390.0000	18.68	32.78	51.46	54.00	-2.54	Avg	
3 *	2410.9500	71.34	32.89	104.23	54.00	50.23	Avg	NO LIMIT
4	2411.6000	74.58	32.89	107.47	74.00	33.47	Peak	NO LIMIT

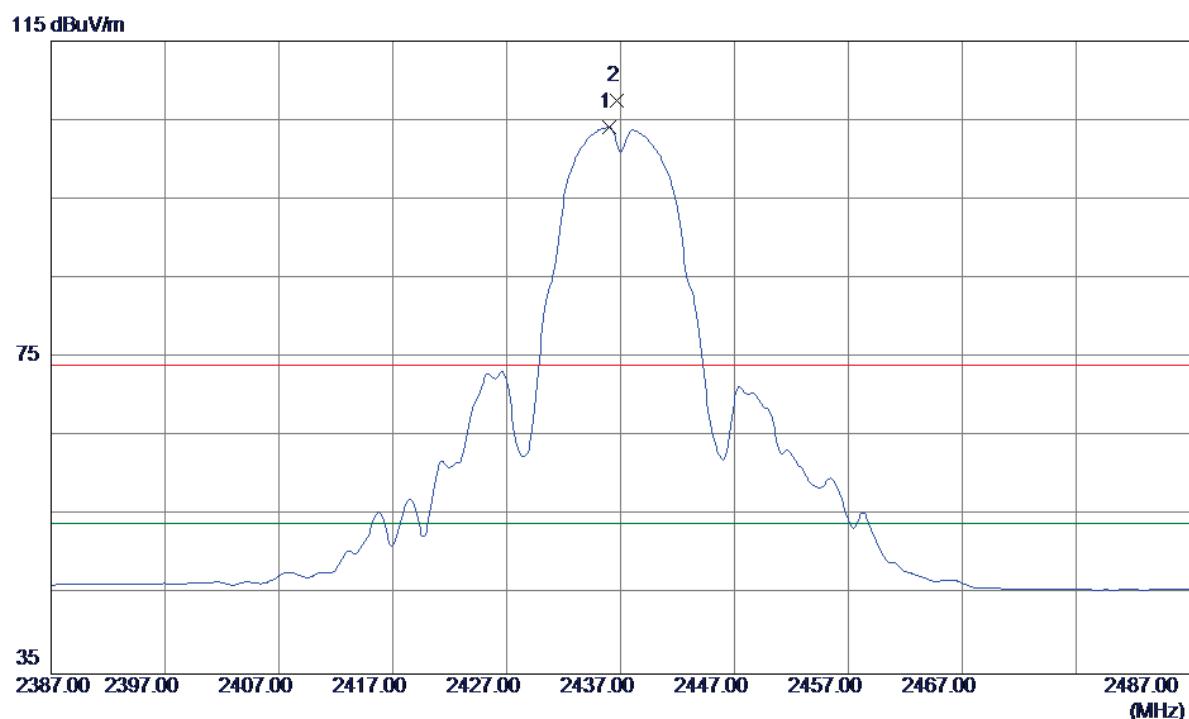
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7235.2500	41.44	9.82	51.26	54.00	-2.74	AVG	
2	7236.3500	46.00	9.82	55.82	74.00	-18.18	Peak	

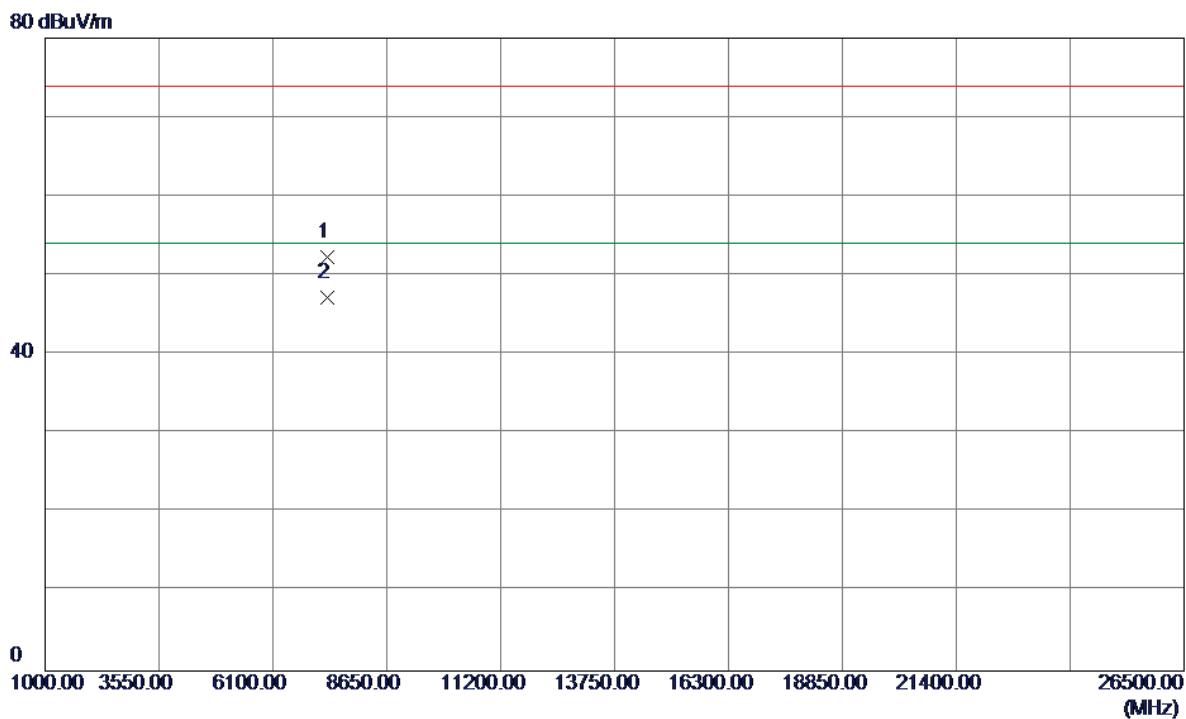
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

## Vertical



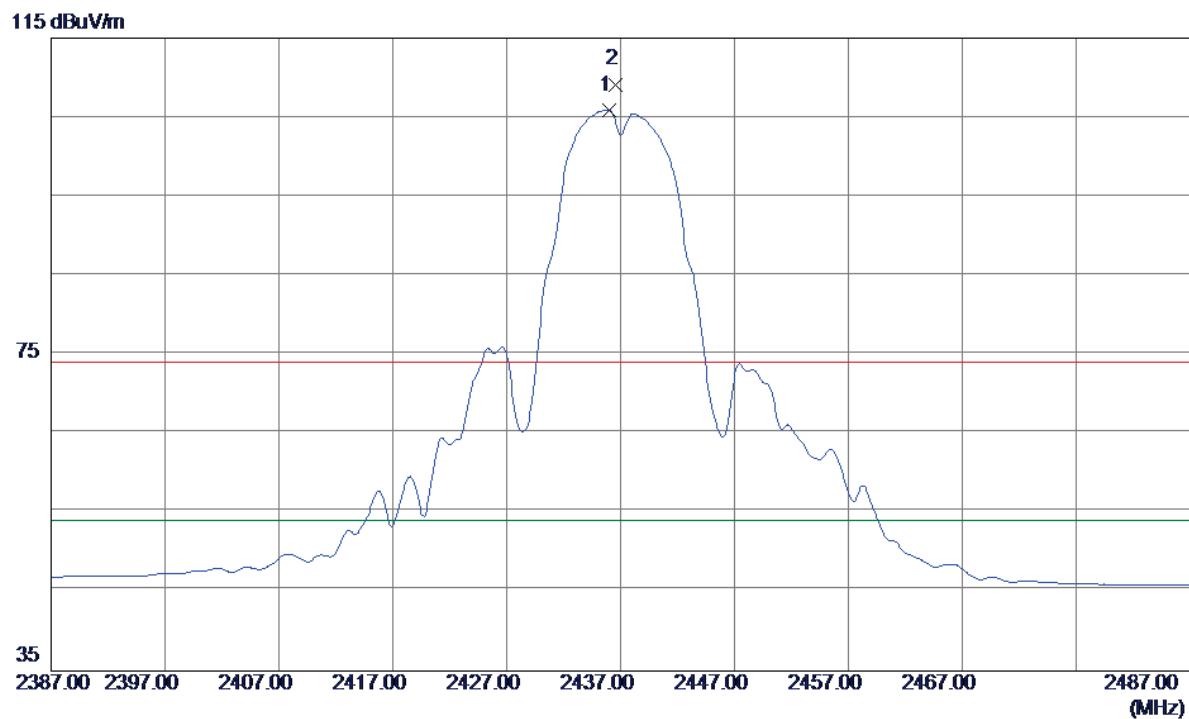
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	71.11	33.02	104.13	54.00	50.13	AVG	NO LIMIT
2	2436.6500	74.40	33.03	107.43	74.00	33.43	Peak	NO LIMIT

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

**Vertical**

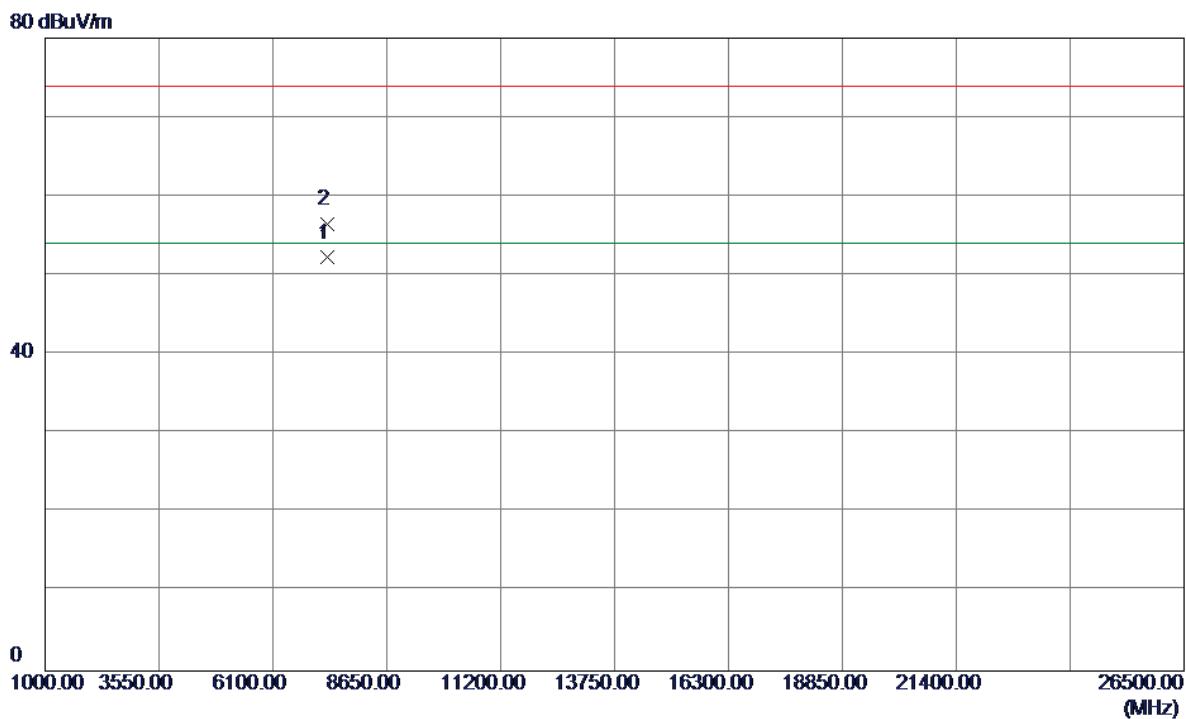
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7310.0980	42.41	9.97	52.38	74.00	-21.62	Peak	
2 *	7311.1050	37.16	9.98	47.14	54.00	-6.86	AVG	

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

**Horizontal**

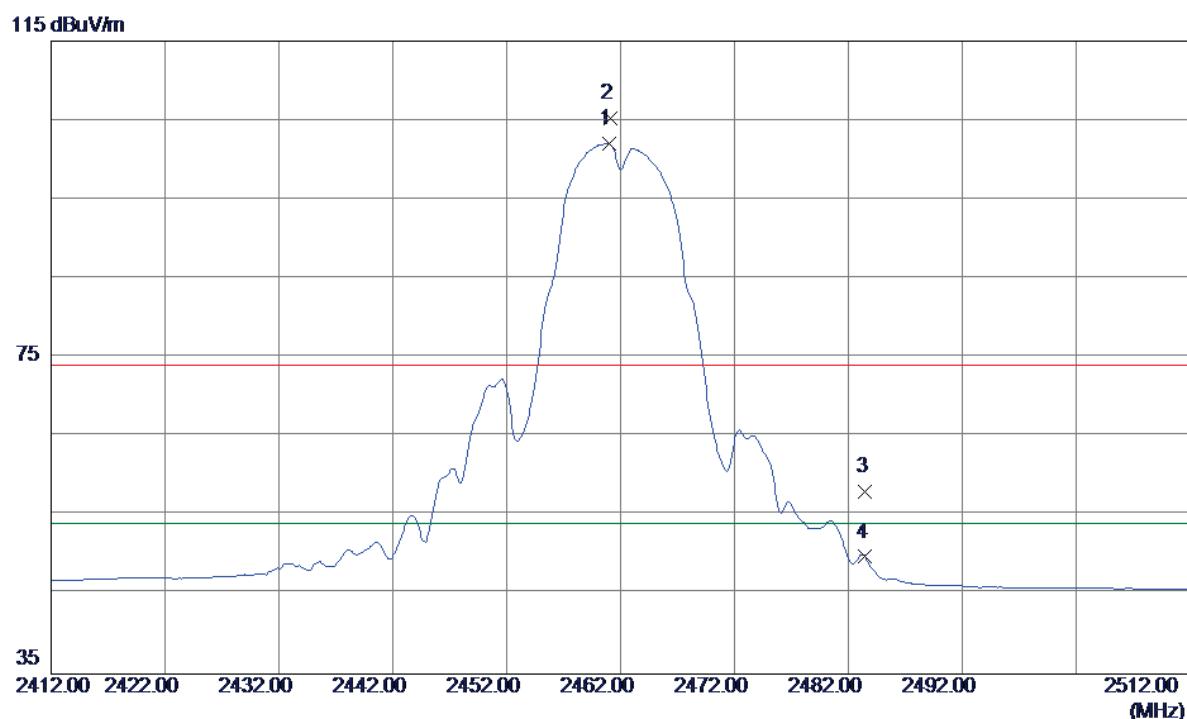
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9500	72.87	33.02	105.89	54.00	51.89	AVG	NO LIMIT
2	2436.6000	76.13	33.03	109.16	74.00	35.16	Peak	NO LIMIT

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

**Horizontal**

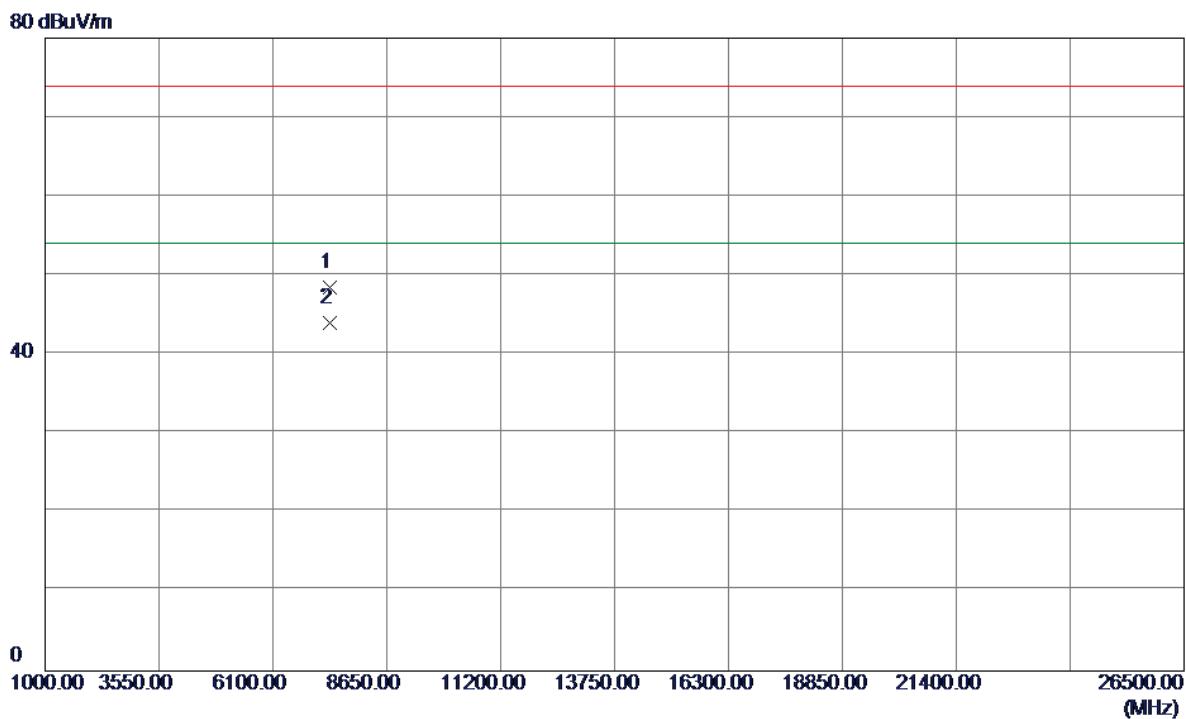
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7310.1250	42.27	9.97	52.24	54.00	-1.76	AVG	
2	7310.7250	46.57	9.97	56.54	74.00	-17.46	Peak	

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

**Vertical**

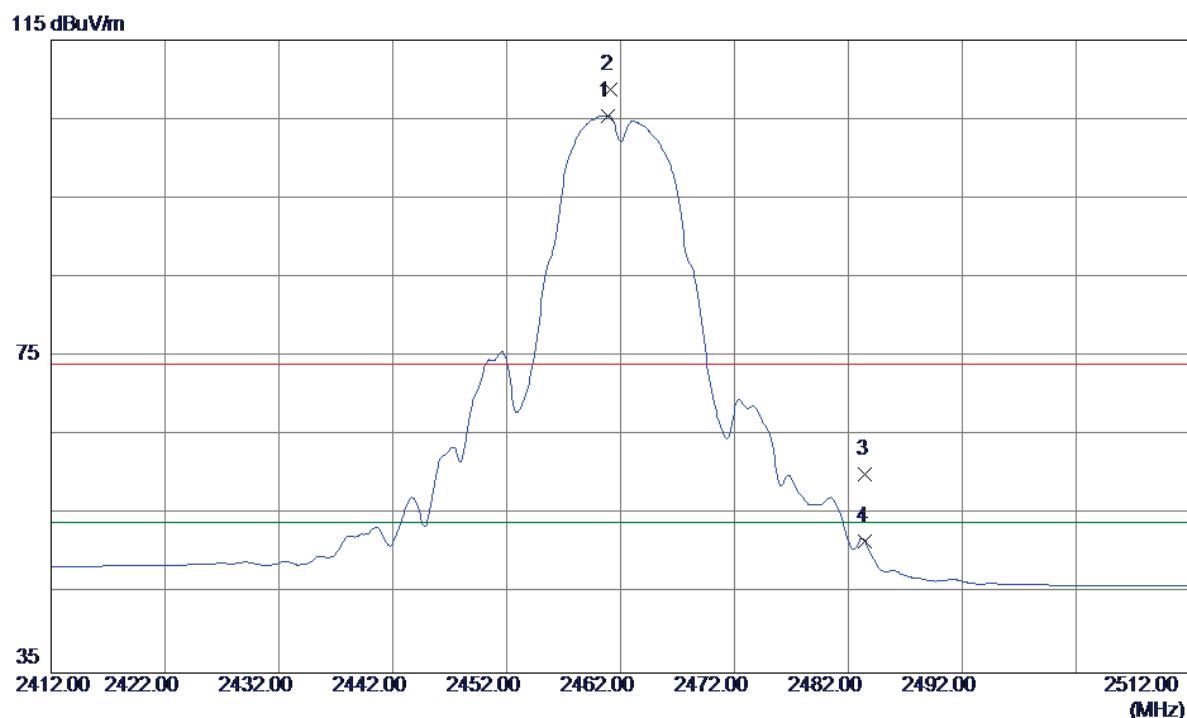
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9500	68.84	33.16	102.00	54.00	48.00	AVG	NO LIMIT
2	2461.1500	72.14	33.16	105.30	74.00	31.30	Peak	NO LIMIT
3	2483.5000	24.83	33.28	58.11	74.00	-15.89	Peak	
4	2483.5000	16.52	33.28	49.80	54.00	-4.20	AVG	

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

**Vertical**

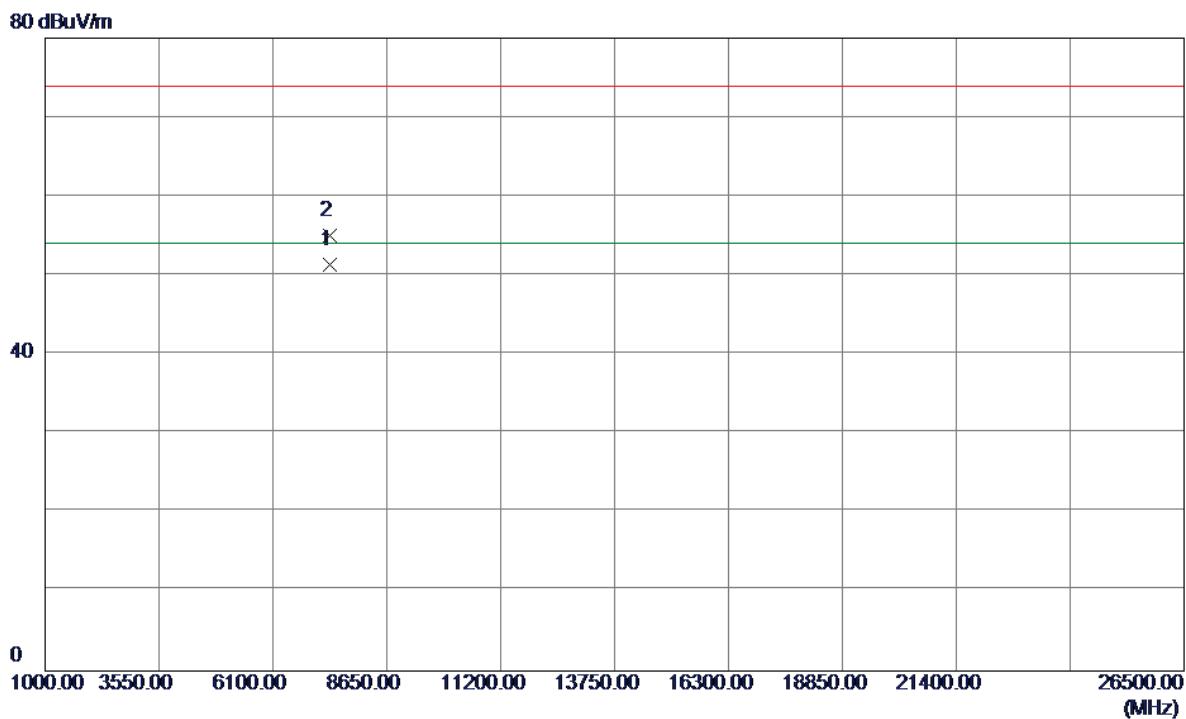
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	7385.0750	38.41	10.12	48.53	74.00	-25.47	Peak	
2 *	7386.7750	33.85	10.13	43.98	54.00	-10.02	AVG	

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

**Horizontal**

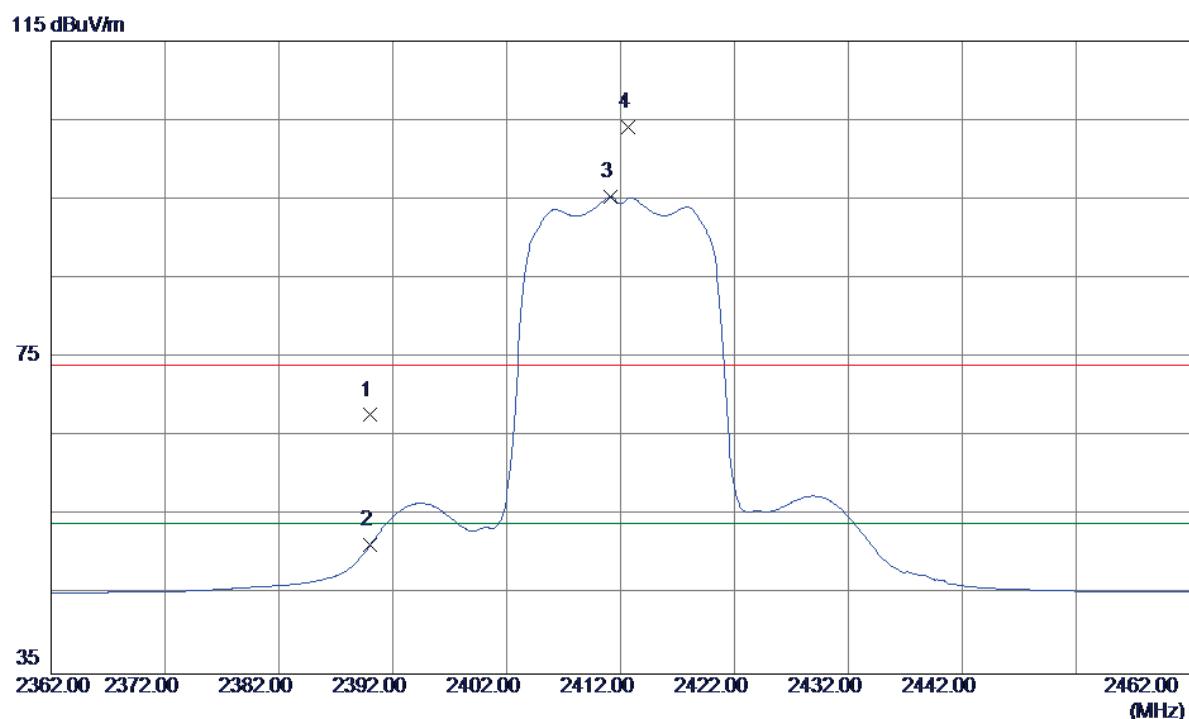
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9000	72.27	33.16	105.43	54.00	51.43	AVG	NO LIMIT
2	2461.1500	75.52	33.16	108.68	74.00	34.68	Peak	NO LIMIT
3	2483.5000	26.78	33.28	60.06	74.00	-13.94	Peak	
4	2483.5000	18.35	33.28	51.63	54.00	-2.37	AVG	

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

**Horizontal**

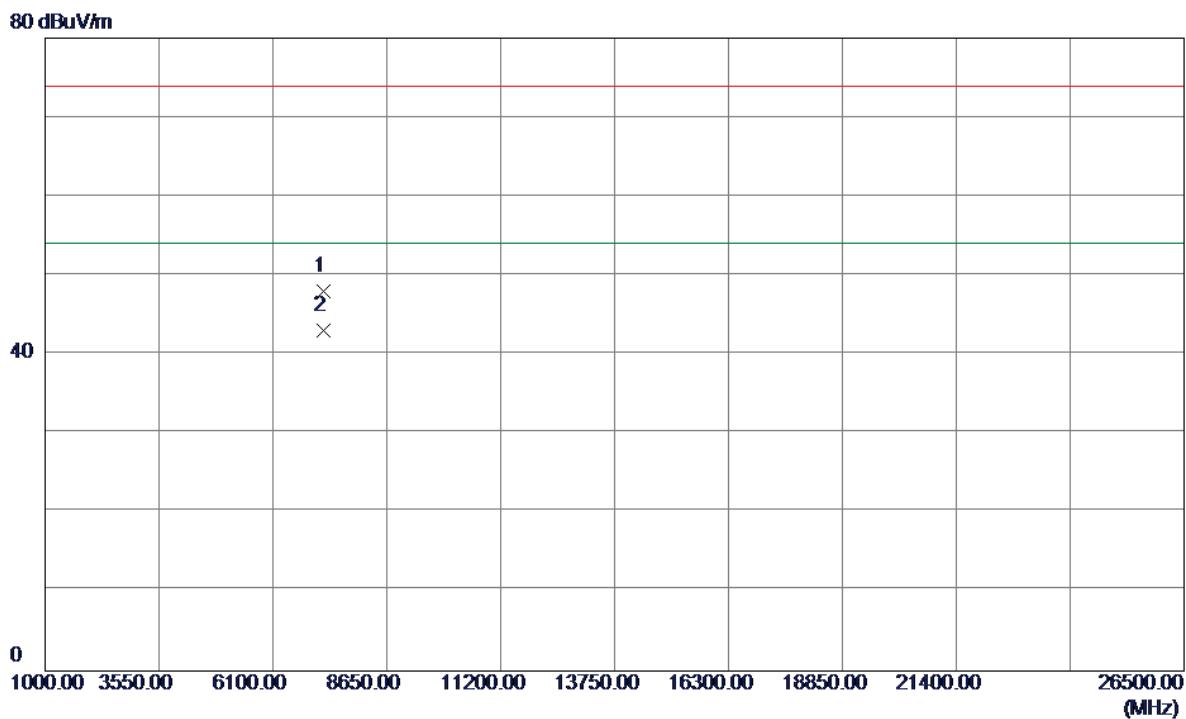
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7385.2200	41.29	10.12	51.41	54.00	-2.59	AVG	
2	7385.6400	44.86	10.12	54.98	74.00	-19.02	Peak	

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

**Vertical**

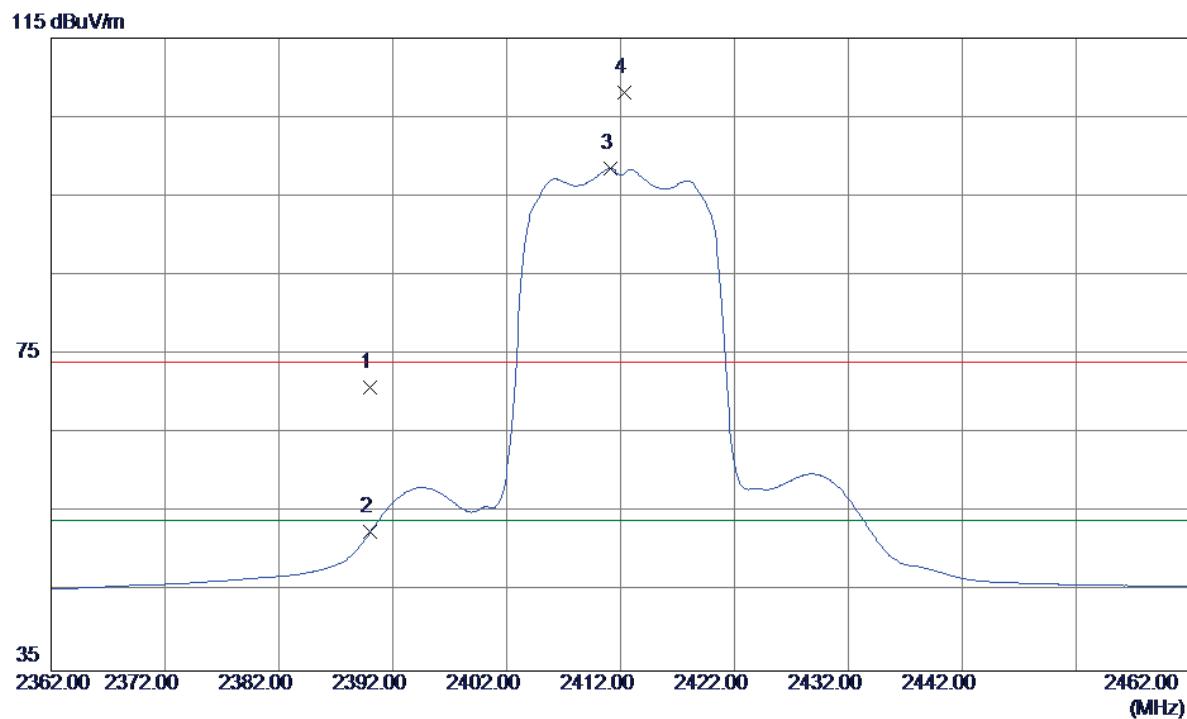
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.94	32.78	67.72	74.00	-6.28	Peak	
2	2390.0000	18.59	32.78	51.37	54.00	-2.63	AVG	
3 *	2411.1000	62.41	32.89	95.30	54.00	41.30	AVG	NO LIMIT
4	2412.6500	71.28	32.90	104.18	74.00	30.18	Peak	NO LIMIT

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

**Vertical**

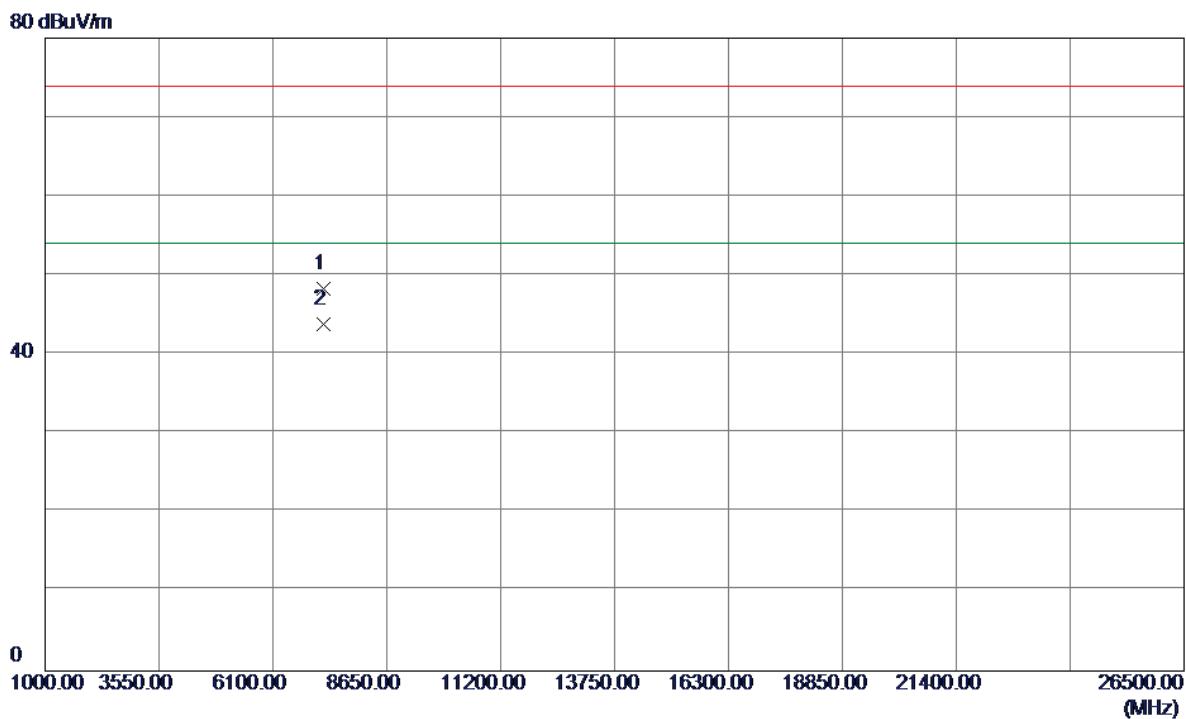
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7235.7100	38.12	9.82	47.94	74.00	-26.06	Peak	
2 *	7236.0500	33.27	9.82	43.09	54.00	-10.91	AVG	

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

**Horizontal**

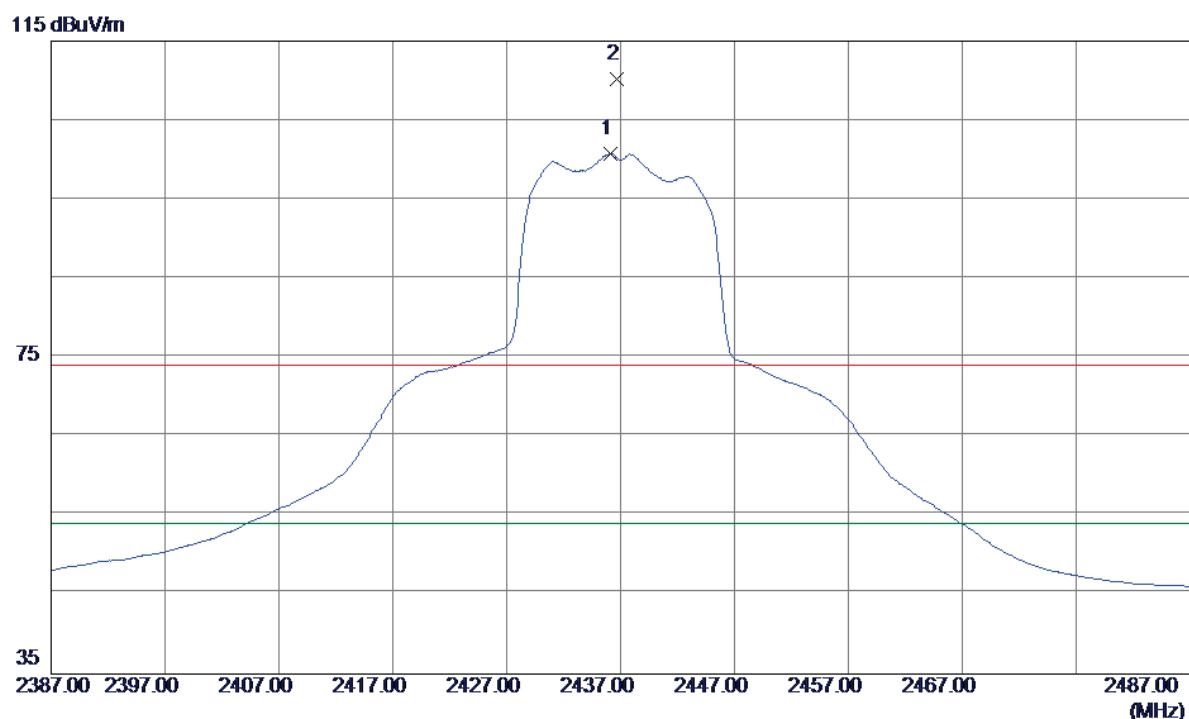
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.01	32.78	70.79	74.00	-3.21	Peak	
2	2390.0000	19.86	32.78	52.64	54.00	-1.36	Avg	
3 *	2411.1000	65.70	32.89	98.59	54.00	44.59	Avg	NO LIMIT
4	2412.3000	75.25	32.90	108.15	74.00	34.15	Peak	NO LIMIT

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

**Horizontal**

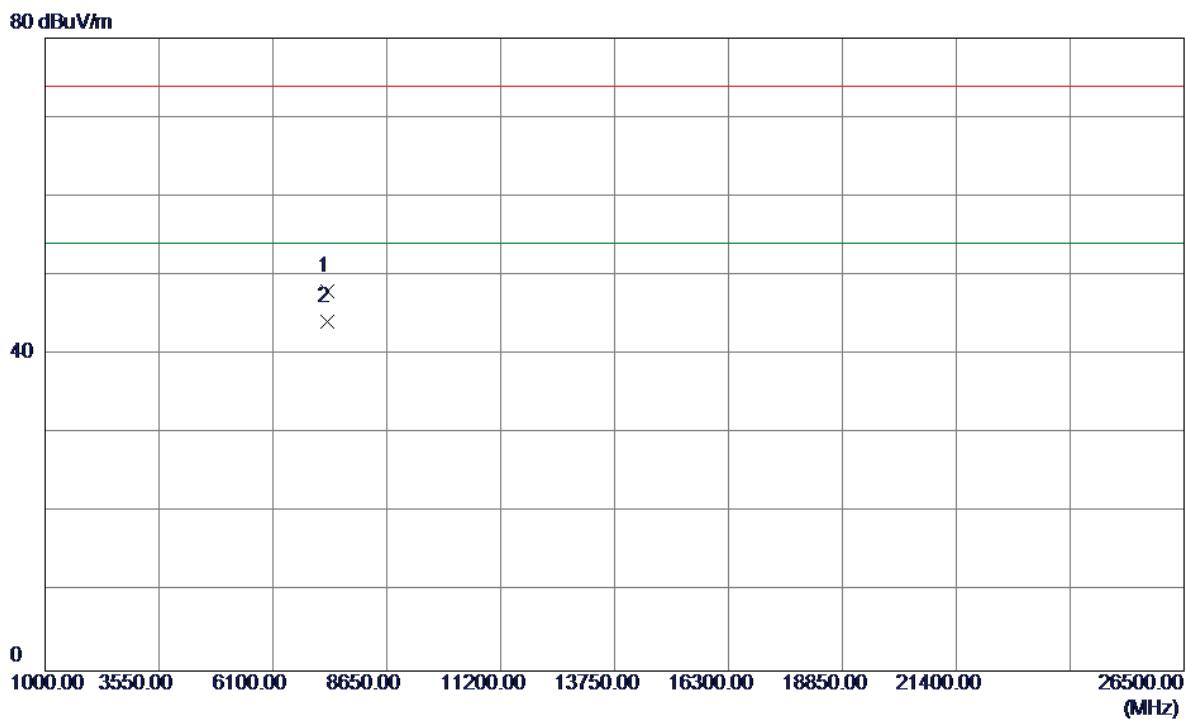
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7234.1600	38.44	9.82	48.26	74.00	-25.74	Peak	
2 *	7235.5200	34.09	9.82	43.91	54.00	-10.09	AVG	

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

**Vertical**

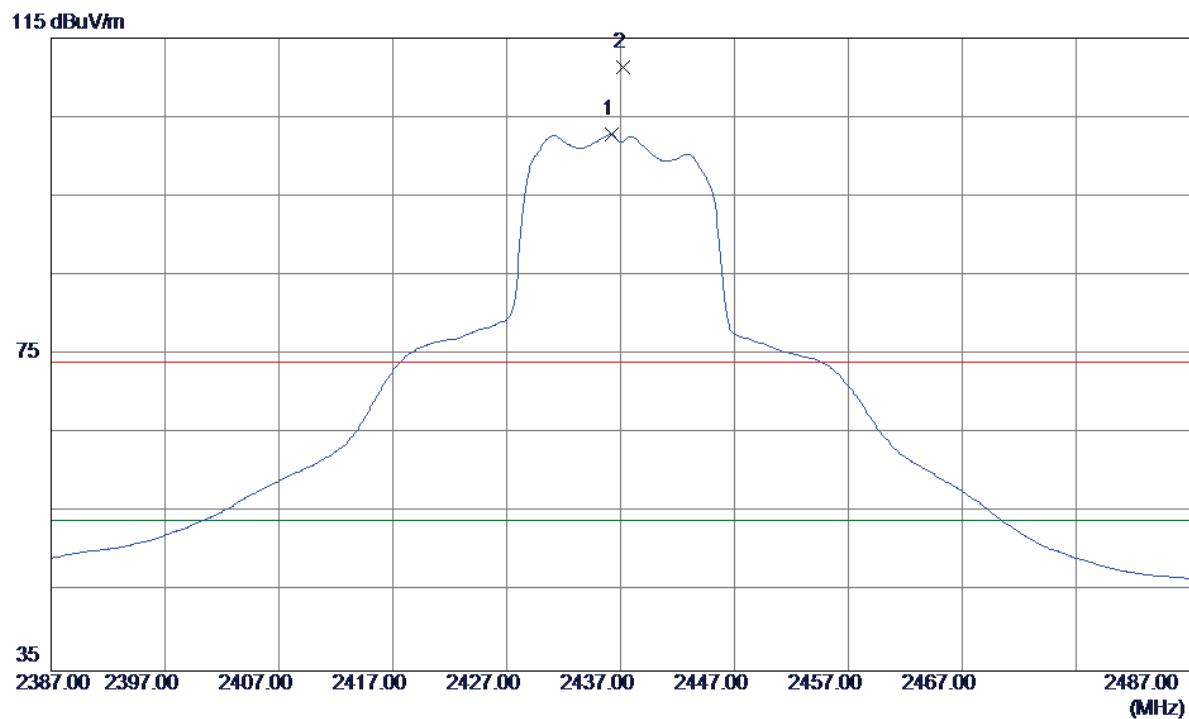
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2436.1000	67.74	33.02	100.76	54.00	46.76	AVG	NO LIMIT
2	2436.6500	77.21	33.03	110.24	74.00	36.24	Peak	NO LIMIT

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

**Vertical**

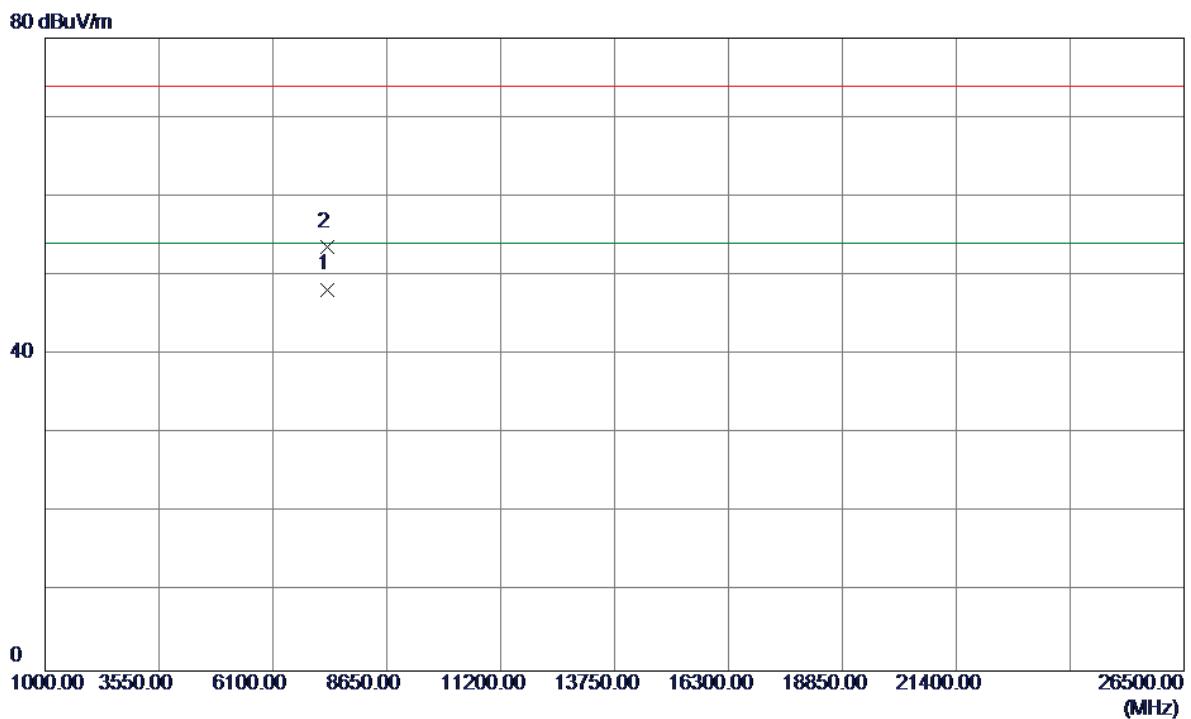
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7311.1040	38.06	9.98	48.04	74.00	-25.96	Peak	
2 *	7310.4380	34.20	9.97	44.17	54.00	-9.83	AVG	

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

**Horizontal**

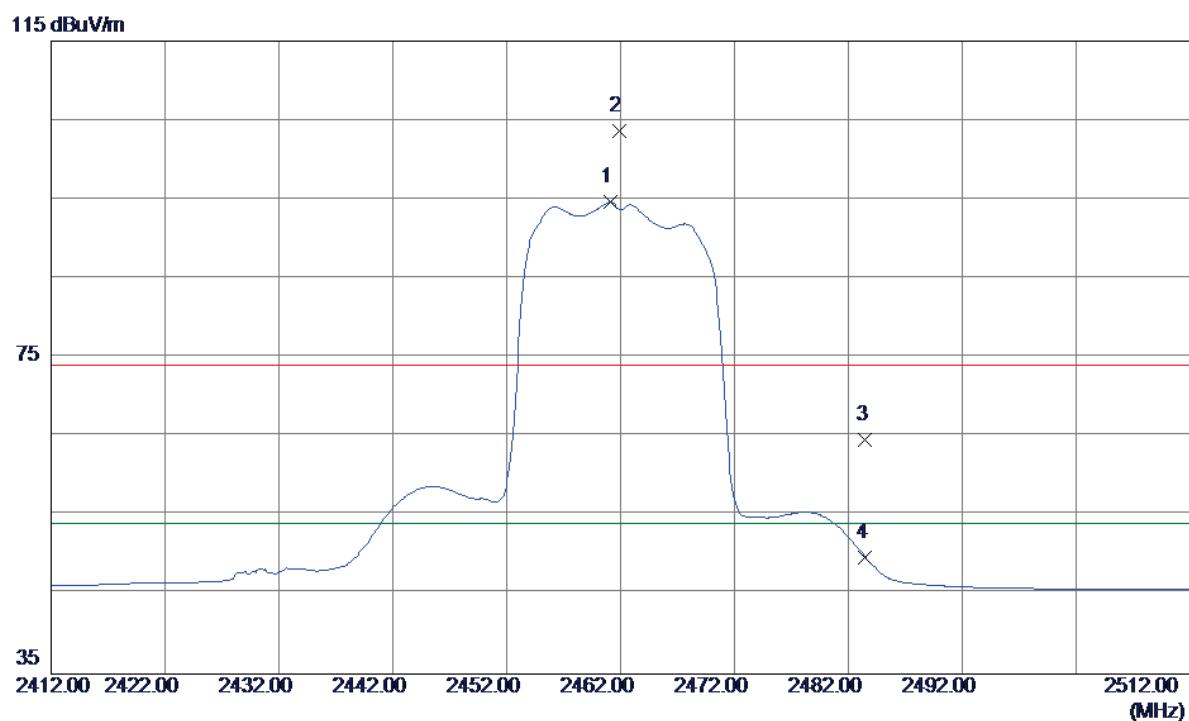
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	69.83	33.03	102.86	54.00	48.86	AVG	NO LIMIT
2	2437.2500	78.30	33.03	111.33	74.00	37.33	Peak	NO LIMIT

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

**Horizontal**

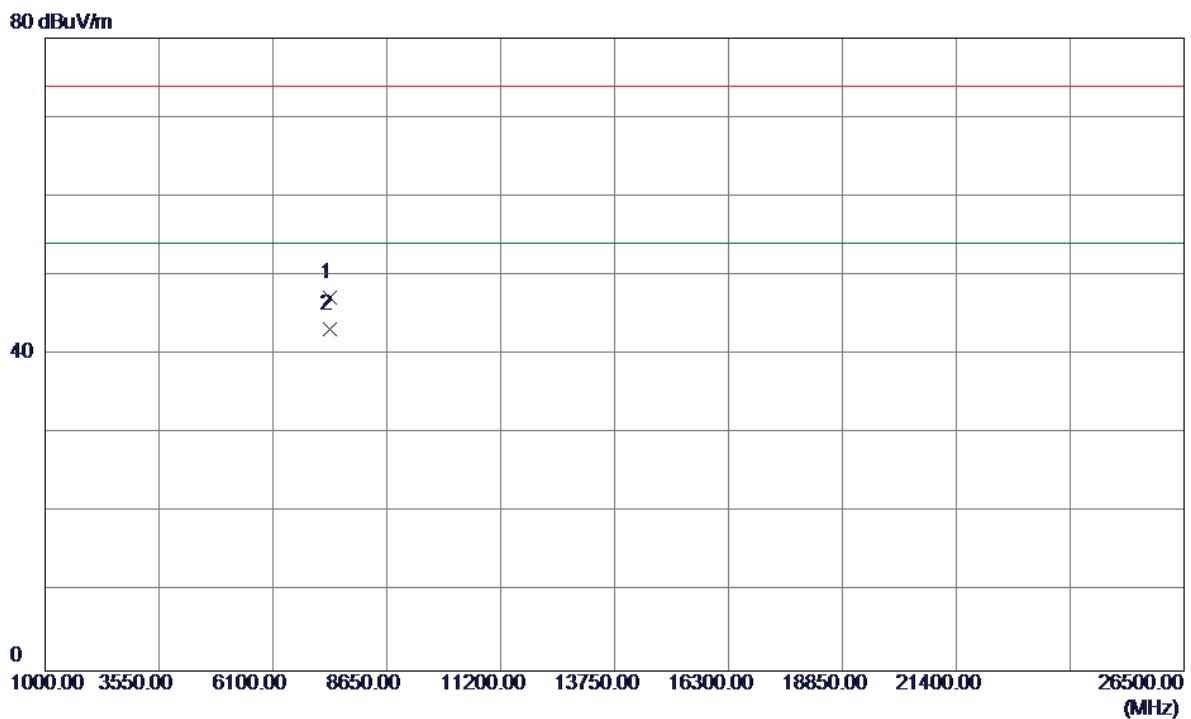
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7310.0700	38.27	9.97	48.24	54.00	-5.76	AVG	
2	7309.8270	43.61	9.97	53.58	74.00	-20.42	Peak	

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

**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1000	61.51	33.16	94.67	54.00	40.67	AVG	NO LIMIT
2	2461.8500	70.51	33.16	103.67	74.00	29.67	Peak	NO LIMIT
3	2483.5000	31.29	33.28	64.57	74.00	-9.43	Peak	
4	2483.5000	16.50	33.28	49.78	54.00	-4.22	AVG	

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

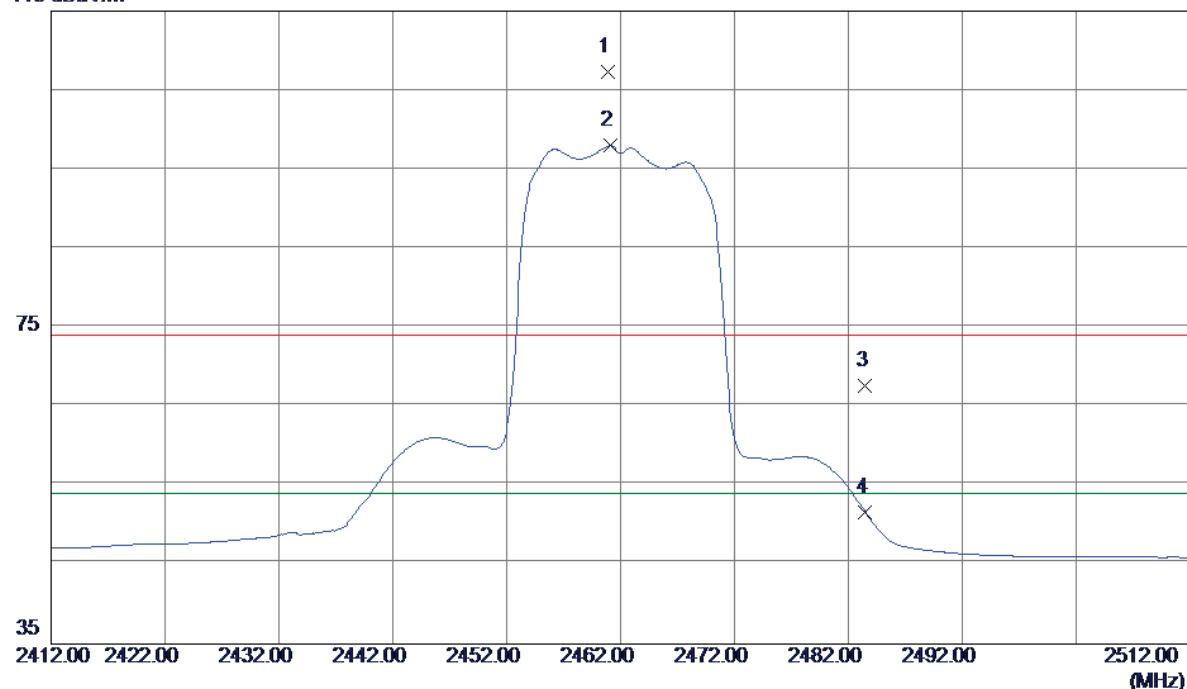
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7385.9010	37.10	10.13	47.23	74.00	-26.77	Peak	
2 *	7385.0420	33.07	10.12	43.19	54.00	-10.81	AVG	

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

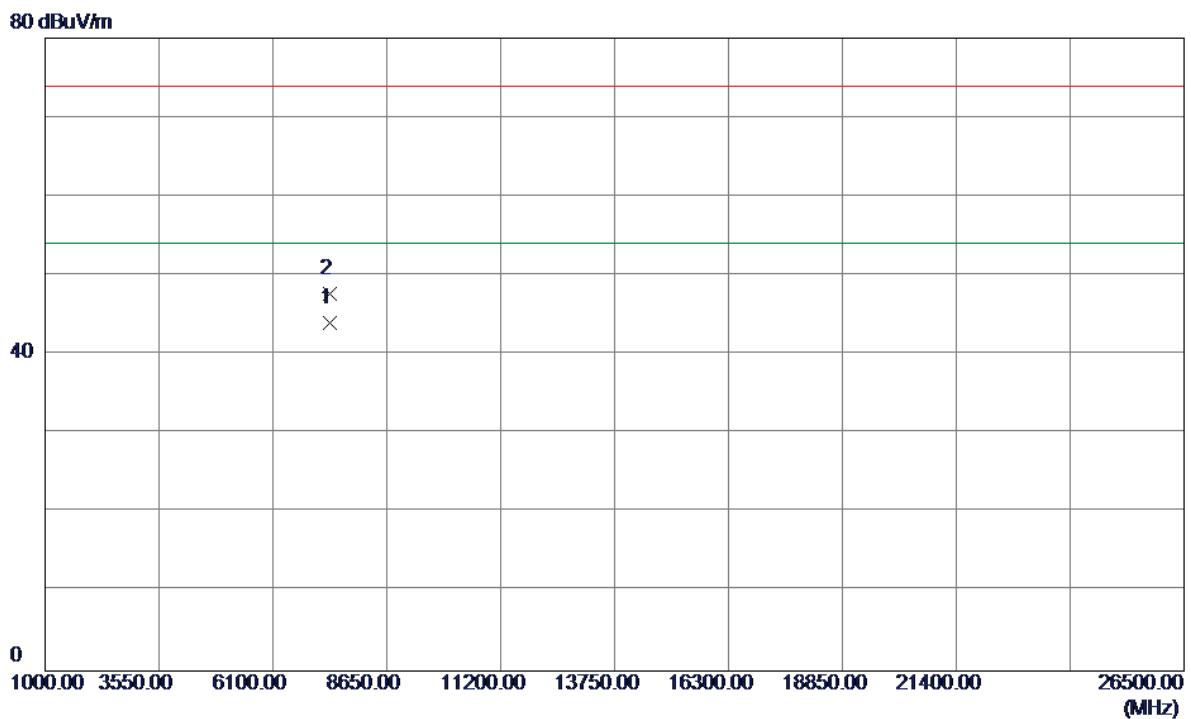
**Horizontal**

115 dBuV/m



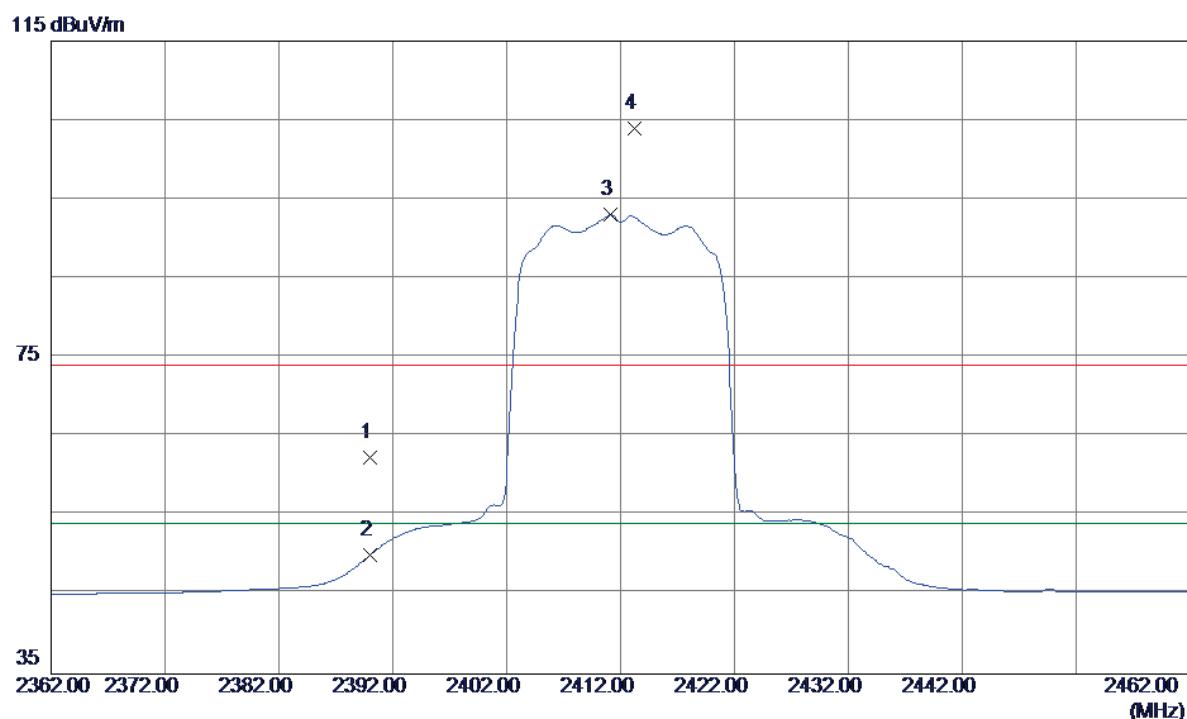
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.8500	74.17	33.16	107.33	74.00	33.33	Peak	NO LIMIT
2 *	2461.1000	64.86	33.16	98.02	54.00	44.02	AVG	NO LIMIT
3	2483.5000	34.34	33.28	67.62	74.00	-6.38	Peak	
4	2483.5000	18.40	33.28	51.68	54.00	-2.32	AVG	

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

**Horizontal**

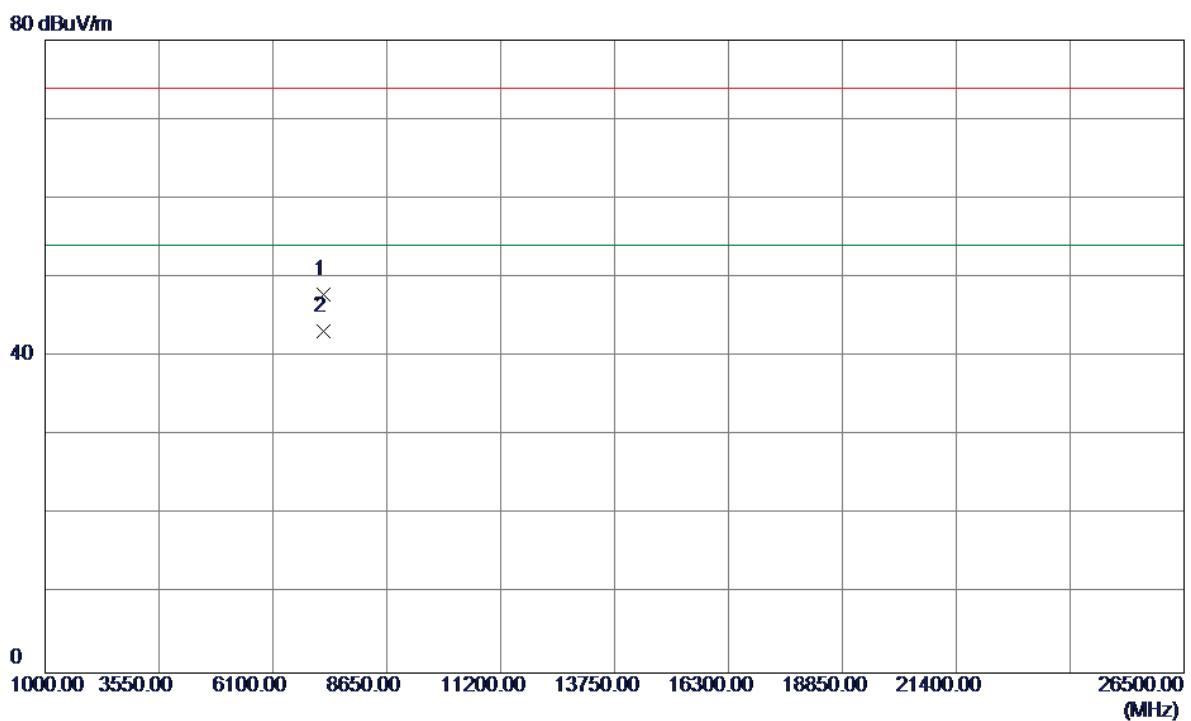
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7385.4100	33.82	10.12	43.94	54.00	-10.06	AVG	
2	7385.6000	37.49	10.12	47.61	74.00	-26.39	Peak	

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

**Vertical**

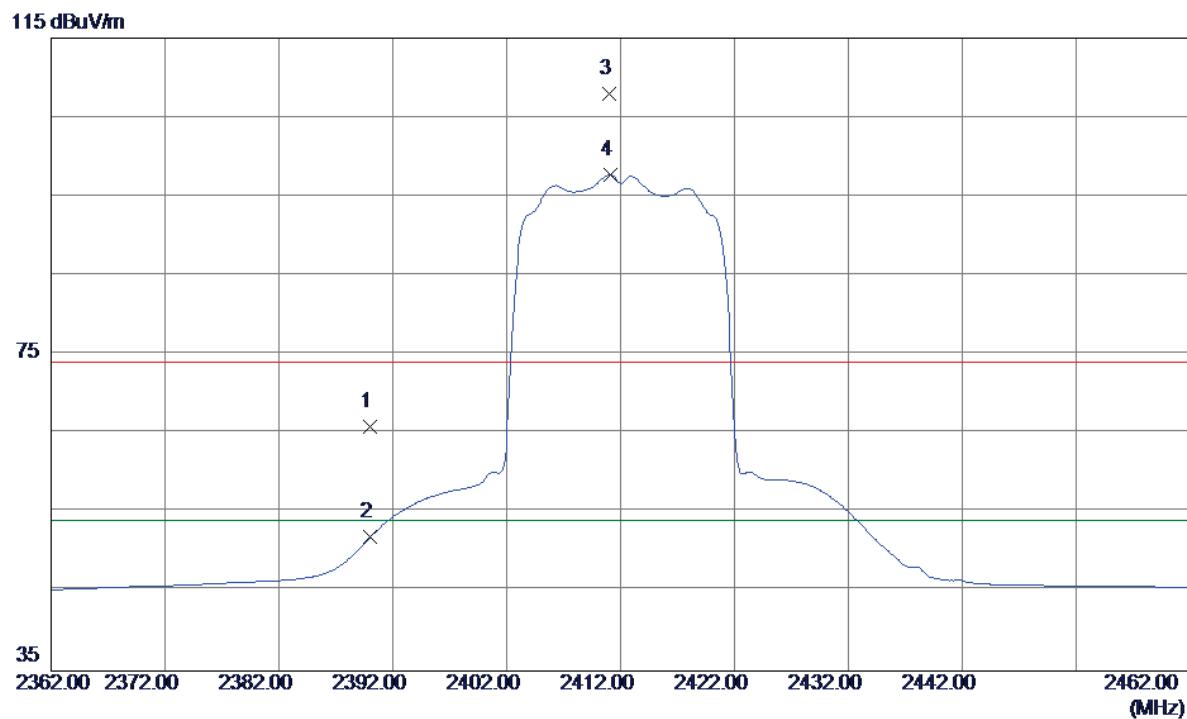
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.55	32.78	62.33	74.00	-11.67	Peak	
2	2390.0000	17.30	32.78	50.08	54.00	-3.92	AVG	
3 *	2411.1500	60.14	32.89	93.03	54.00	39.03	AVG	NO LIMIT
4	2413.2000	71.12	32.90	104.02	74.00	30.02	Peak	NO LIMIT

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

**Vertical**

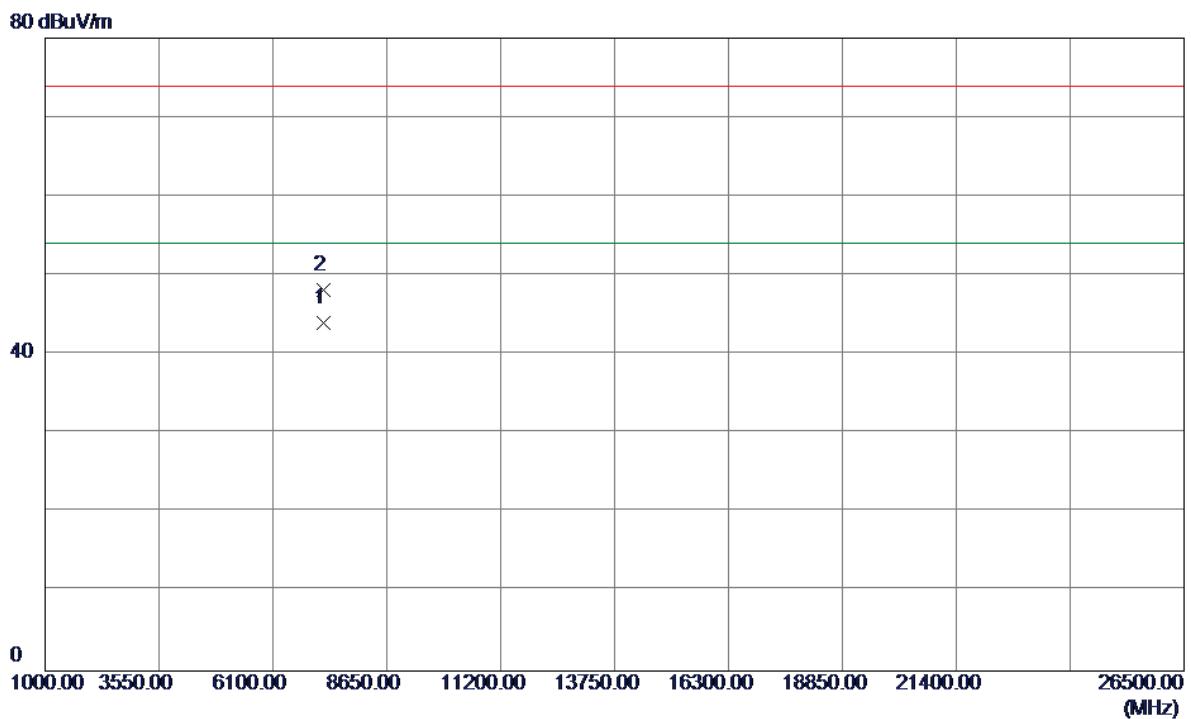
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7236.0140	38.07	9.82	47.89	74.00	-26.11	Peak	
2 *	7235.7640	33.40	9.82	43.22	54.00	-10.78	AVG	

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

**Horizontal**

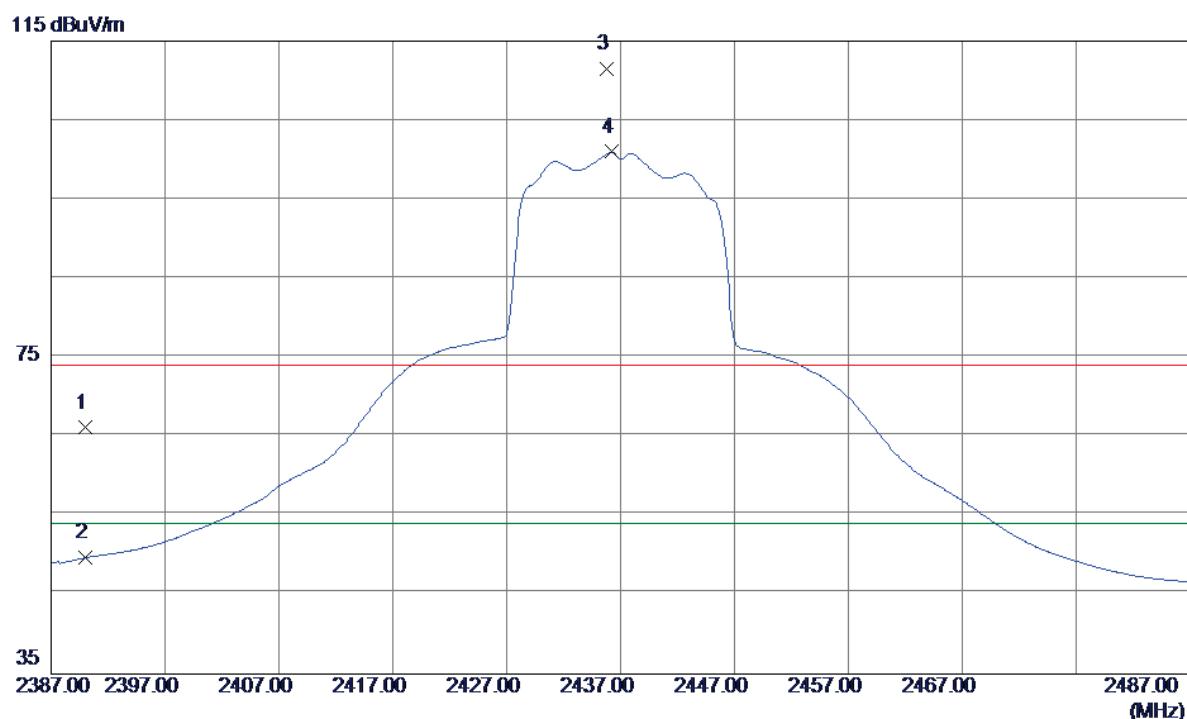
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.09	32.78	65.87	74.00	-8.13	Peak	
2	2390.0000	19.14	32.78	51.92	54.00	-2.08	Avg	
3	2411.0500	75.02	32.89	107.91	74.00	33.91	Peak	NO LIMIT
4 *	2411.1000	64.85	32.89	97.74	54.00	43.74	Avg	NO LIMIT

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

**Horizontal**

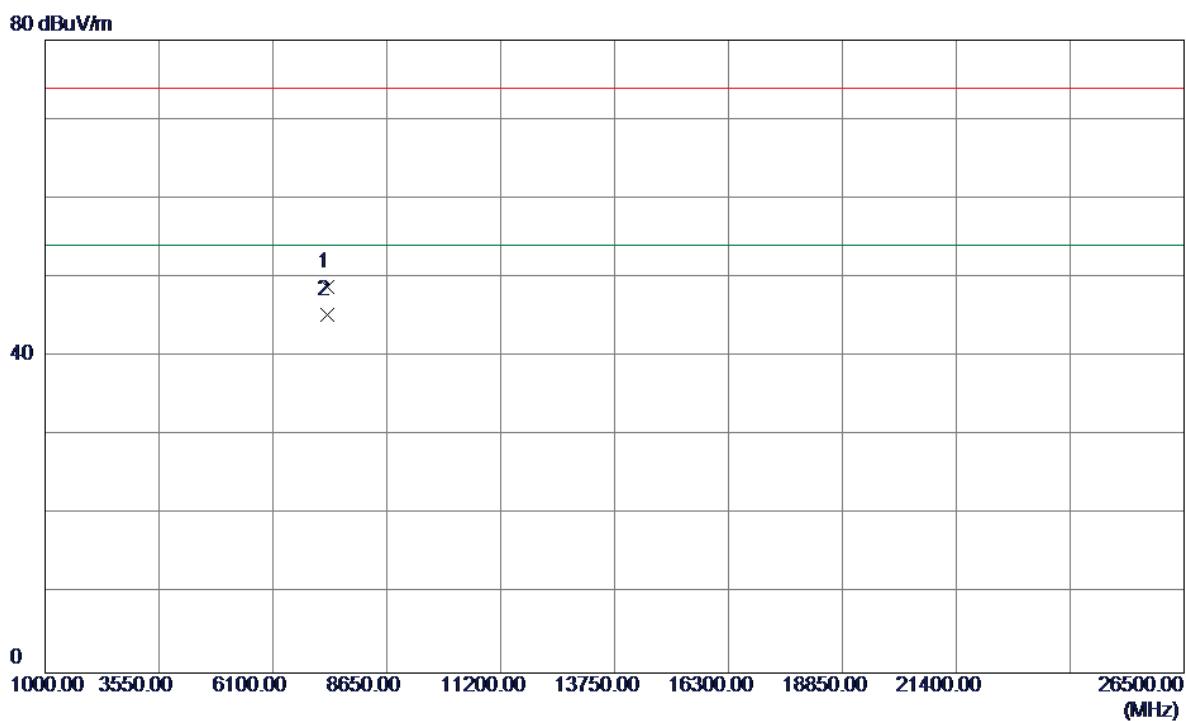
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7235.3070	34.24	9.82	44.06	54.00	-9.94	AVG	
2	7235.5140	38.31	9.82	48.13	74.00	-25.87	Peak	

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

**Vertical**

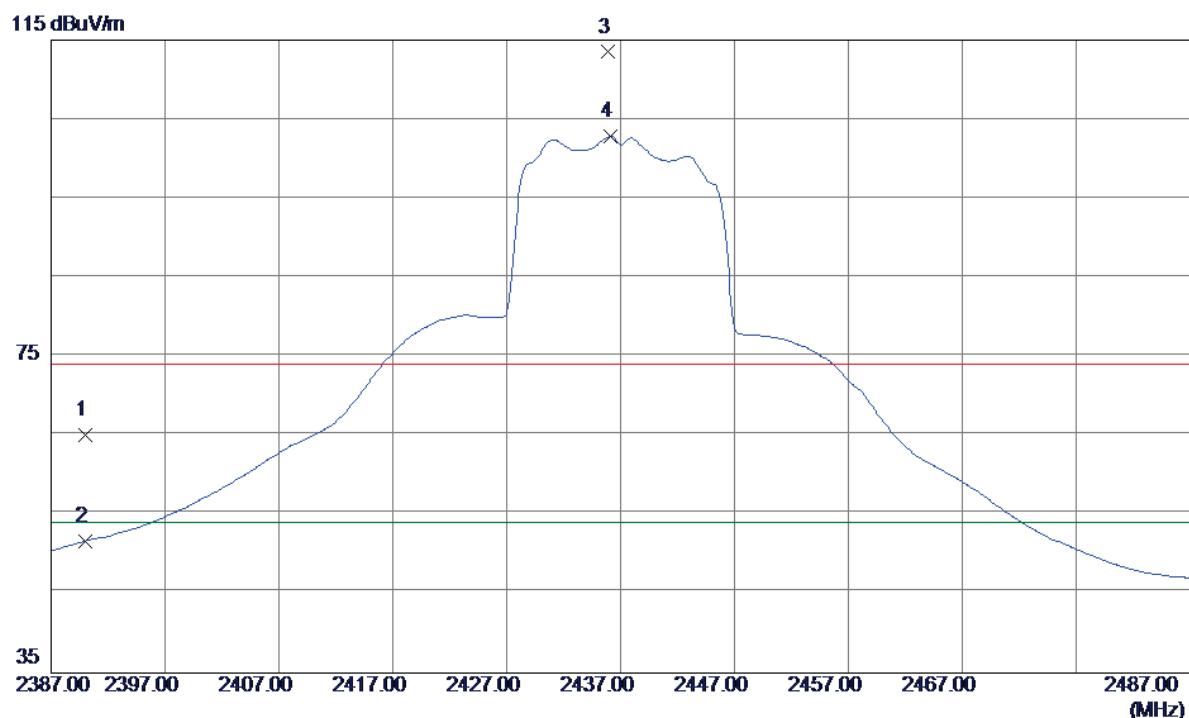
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.34	32.78	66.12	74.00	-7.88	Peak	
2	2390.0000	16.92	32.78	49.70	54.00	-4.30	AVG	
3	2435.8000	78.53	33.02	111.55	74.00	37.55	Peak	NO LIMIT
4 *	2436.2000	67.97	33.03	101.00	54.00	47.00	AVG	NO LIMIT

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

**Vertical**

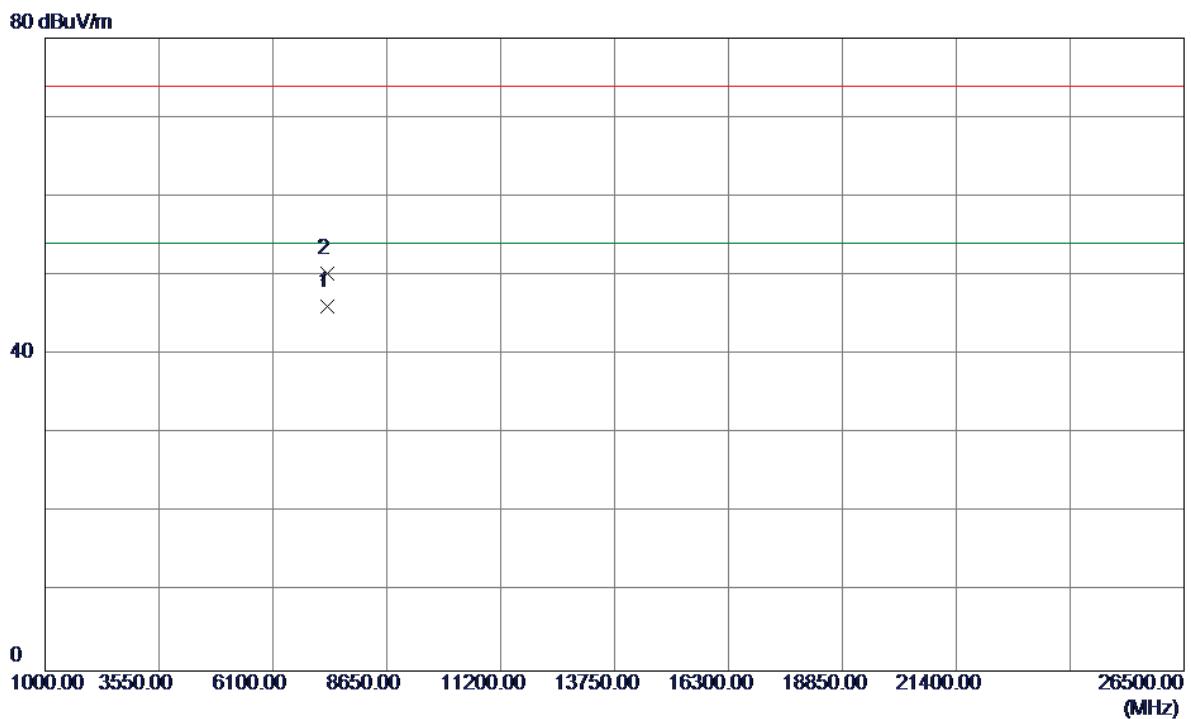
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7311.0510	38.75	9.98	48.73	74.00	-25.27	Peak	
2 *	7310.2270	35.27	9.97	45.24	54.00	-8.76	AVG	

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

**Horizontal**

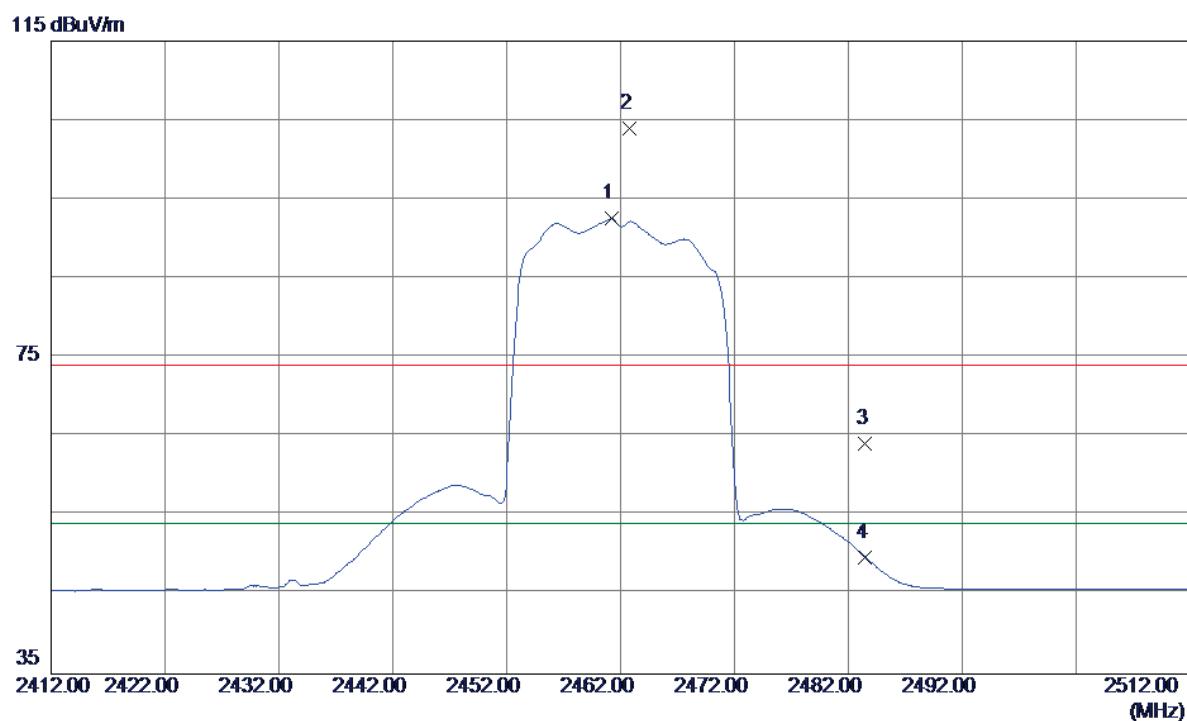
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.27	32.78	65.05	74.00	-8.95	Peak	
2	2390.0000	18.92	32.78	51.70	54.00	-2.30	Avg	
3	2435.8500	80.46	33.02	113.48	74.00	39.48	Peak	NO LIMIT
4 *	2436.1000	69.85	33.02	102.87	54.00	48.87	Avg	NO LIMIT

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

**Horizontal**

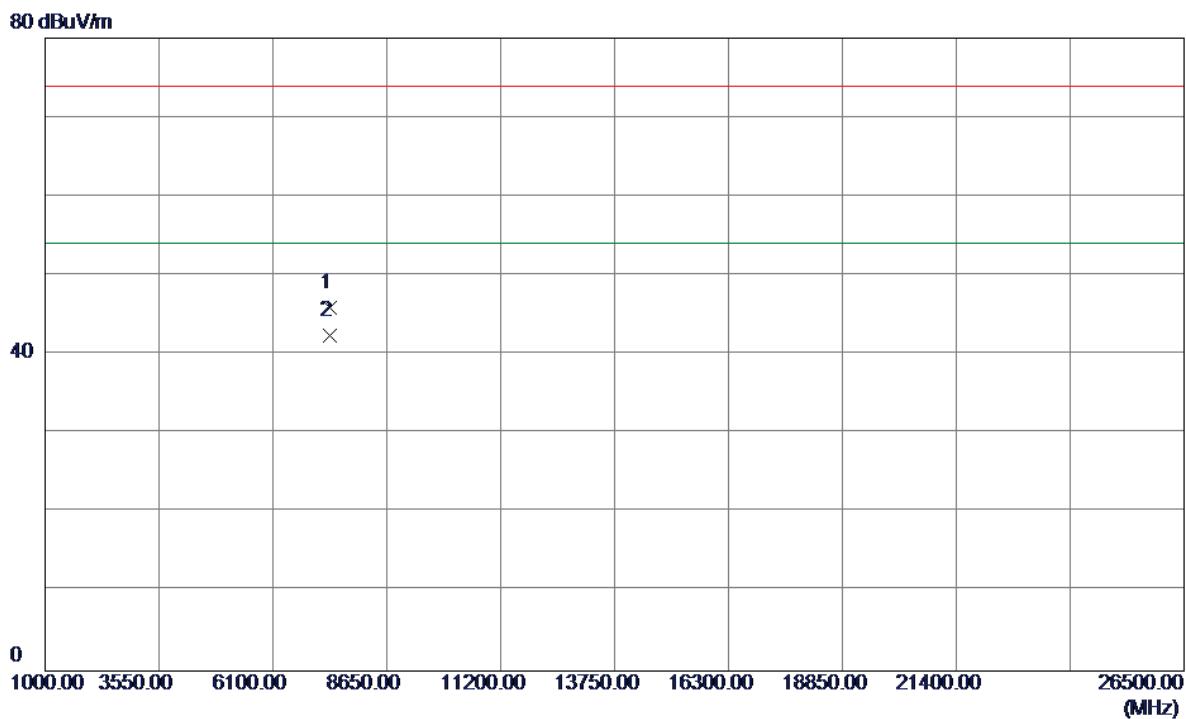
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7311.0810	36.06	9.98	46.04	54.00	-7.96	AVG	
2	7310.1700	40.24	9.97	50.21	74.00	-23.79	Peak	

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

**Vertical**

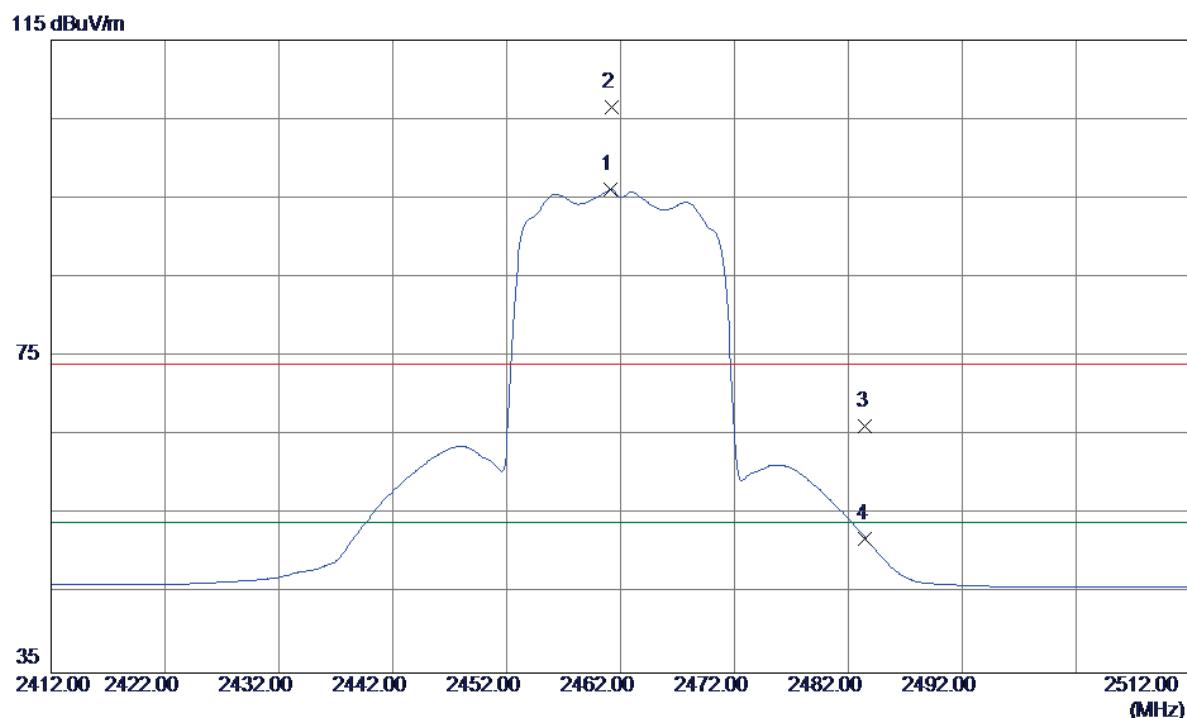
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	59.38	33.16	92.54	54.00	38.54	AVG	NO LIMIT
2	2462.8000	70.75	33.17	103.92	74.00	29.92	Peak	NO LIMIT
3	2483.5000	30.84	33.28	64.12	74.00	-9.88	Peak	
4	2483.5000	16.51	33.28	49.79	54.00	-4.21	AVG	

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

**Vertical**

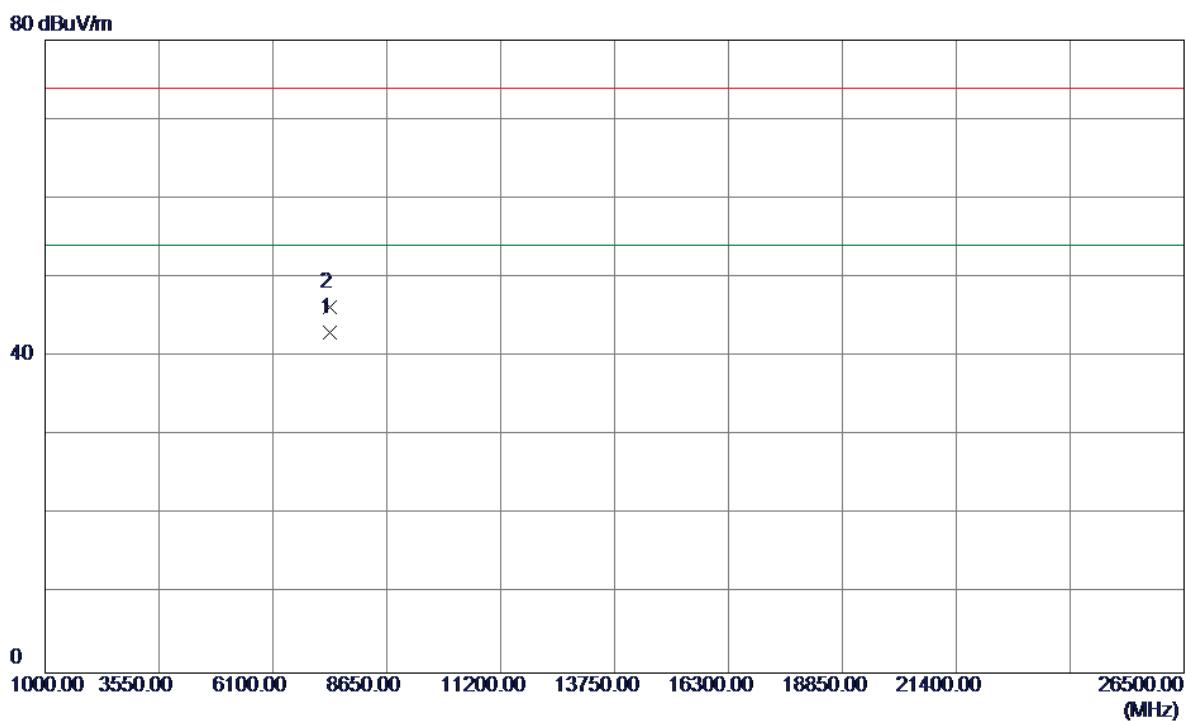
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7386.2010	35.74	10.13	45.87	74.00	-28.13	Peak	
2 *	7385.7710	32.23	10.13	42.36	54.00	-11.64	AVG	

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

**Horizontal**

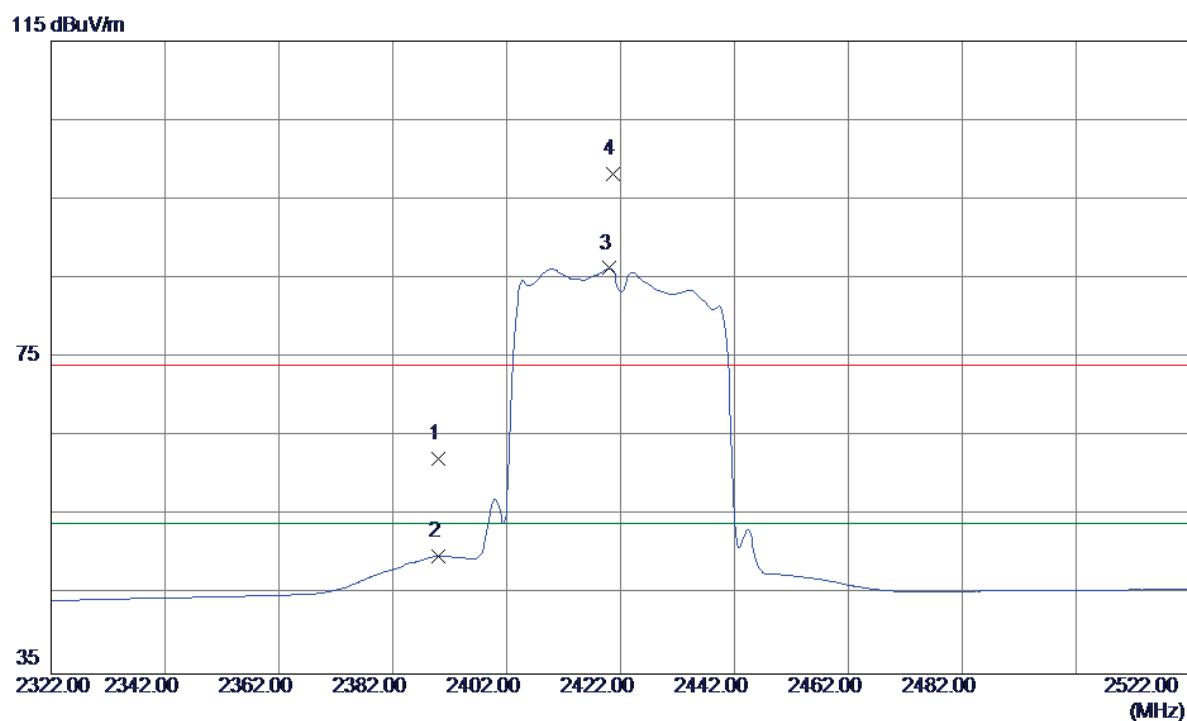
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Detector	Comment
1 *	2461.1000	62.91	33.16	96.07	54.00	42.07	AVG	NO LIMIT
2	2461.2000	73.43	33.16	106.59	74.00	32.59	Peak	NO LIMIT
3	2483.5000	32.95	33.28	66.23	74.00	-7.77	Peak	
4	2483.5000	18.75	33.28	52.03	54.00	-1.97	AVG	

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

**Horizontal**

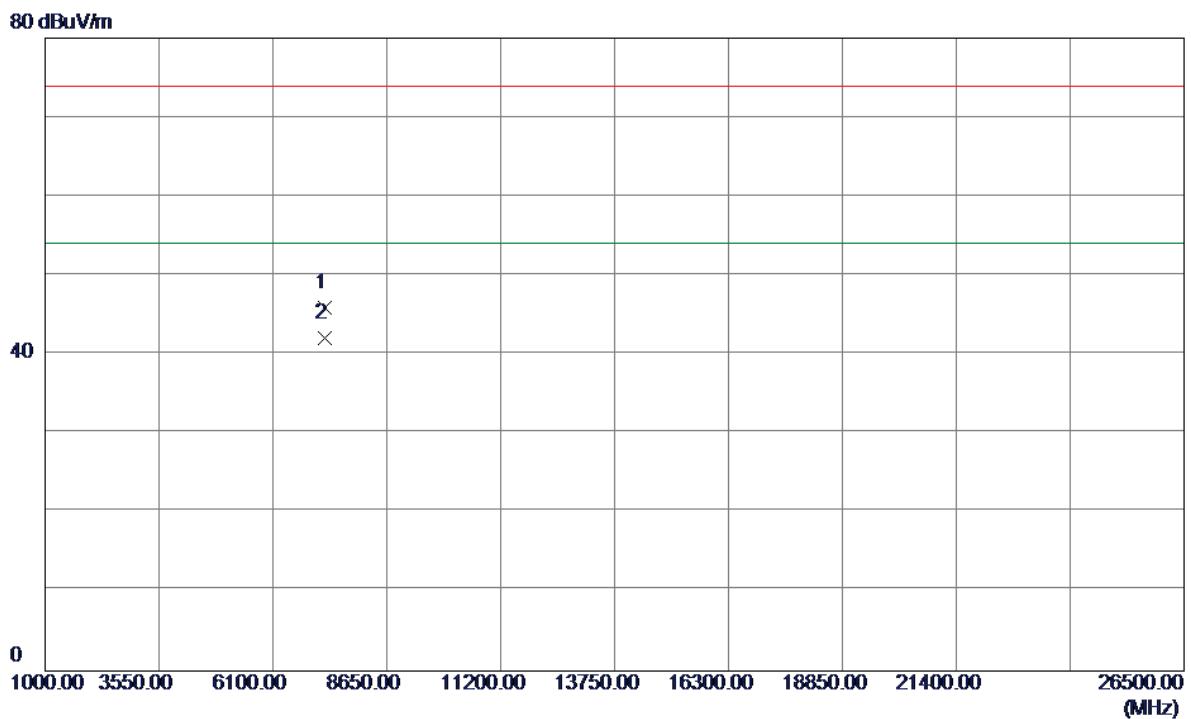
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7385.3040	32.91	10.12	43.03	54.00	-10.97	AVG	
2	7385.0900	36.17	10.12	46.29	74.00	-27.71	Peak	

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

**Vertical**

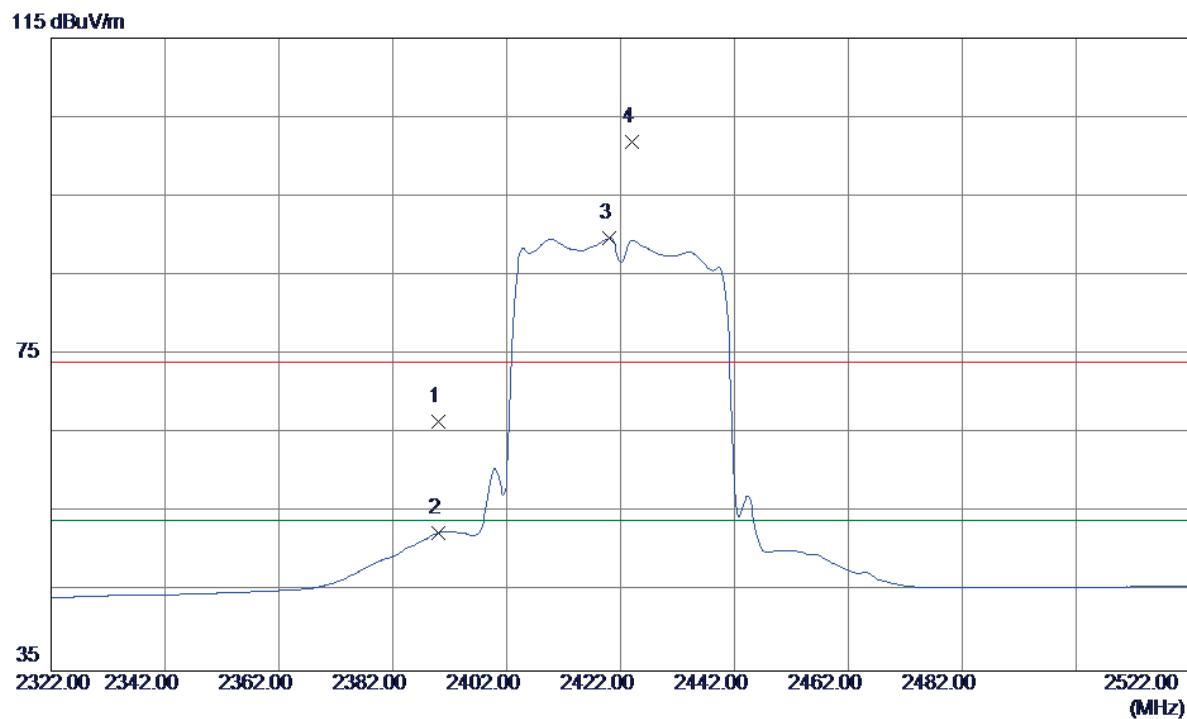
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.40	32.78	62.18	74.00	-11.82	Peak	
2	2390.0000	17.14	32.78	49.92	54.00	-4.08	AVG	
3 *	2420.1000	53.34	32.94	86.28	54.00	32.28	AVG	NO LIMIT
4	2420.6000	65.31	32.94	98.25	74.00	24.25	Peak	NO LIMIT

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

**Vertical**

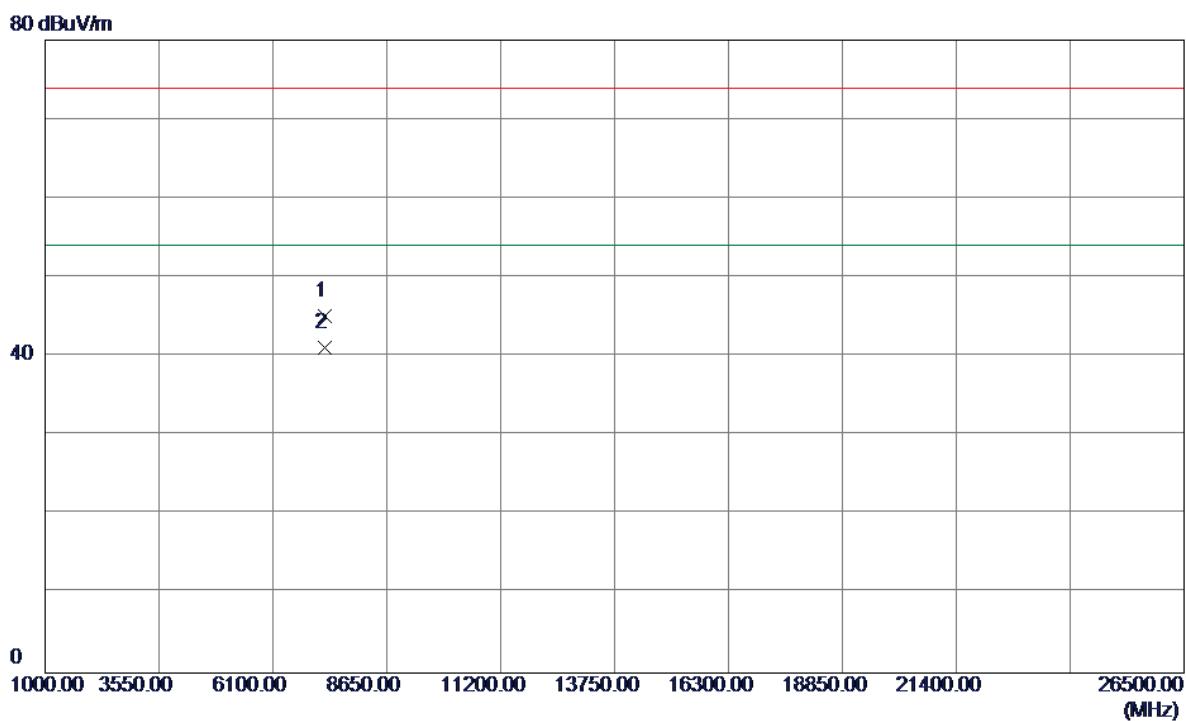
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7265.4380	36.01	9.88	45.89	74.00	-28.11	Peak	
2 *	7266.0700	32.27	9.88	42.15	54.00	-11.85	AVG	

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

**Horizontal**

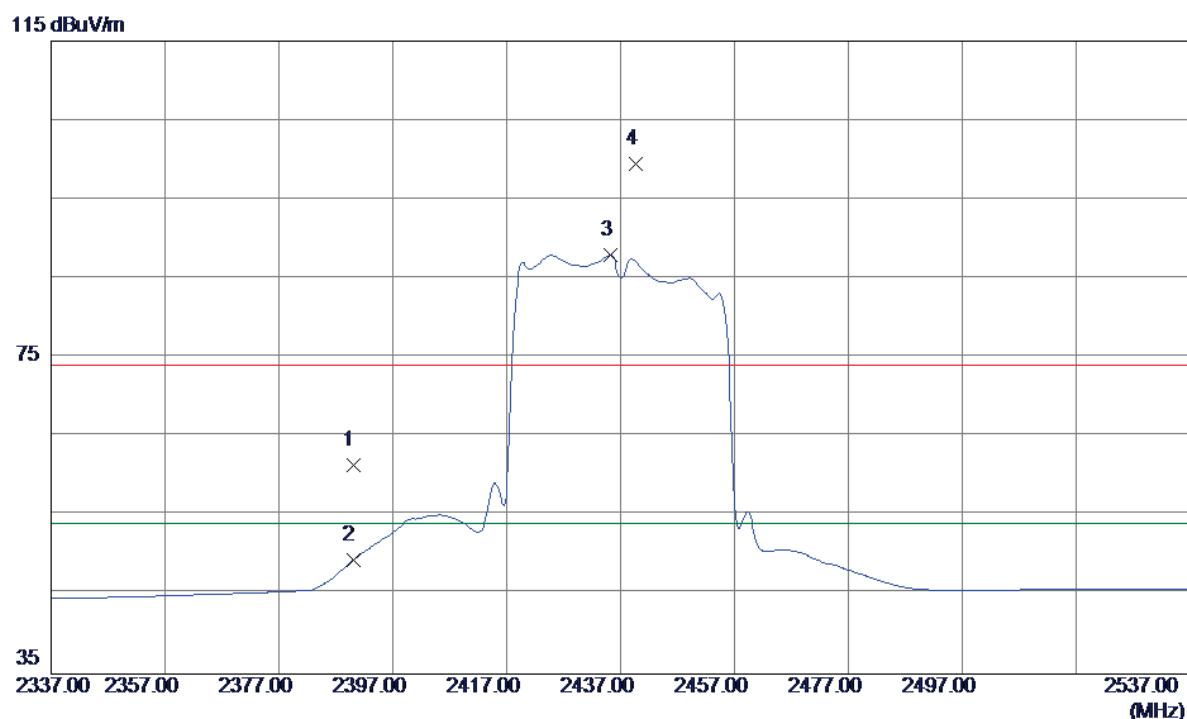
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.72	32.78	66.50	74.00	-7.50	Peak	
2	2390.0000	19.70	32.78	52.48	54.00	-1.52	Avg	
3 *	2420.1000	56.75	32.94	89.69	54.00	35.69	Avg	NO LIMIT
4	2424.1000	68.92	32.96	101.88	74.00	27.88	Peak	NO LIMIT

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

**Horizontal**

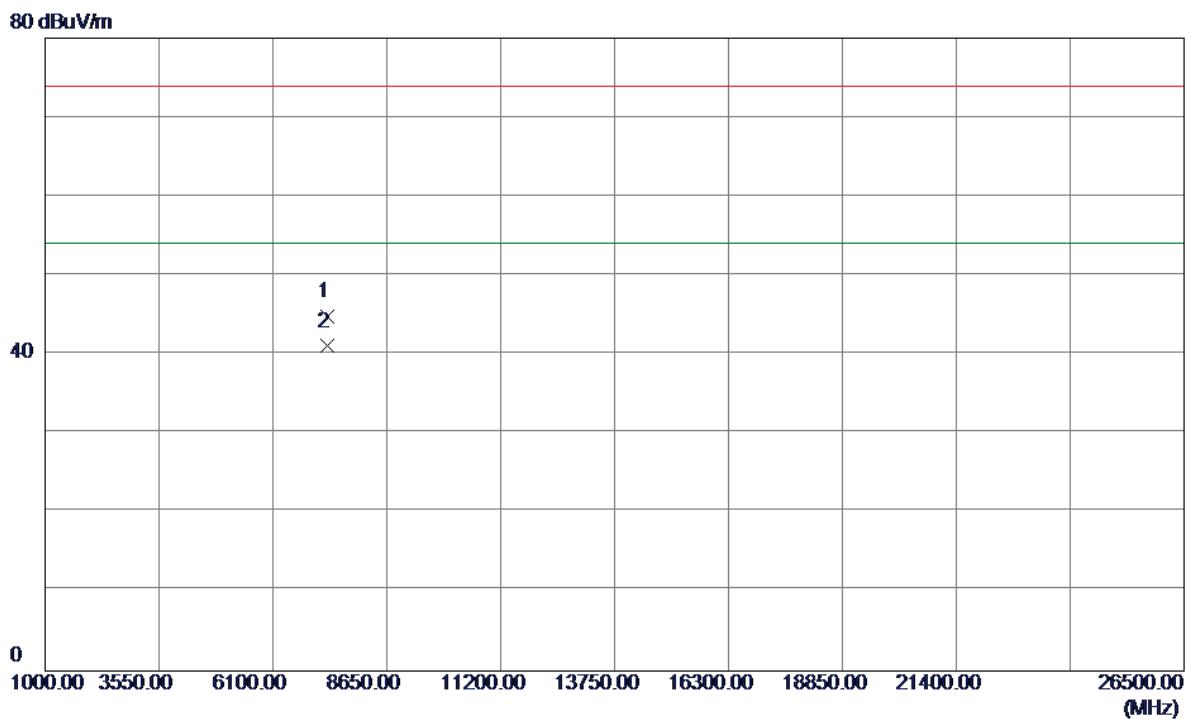
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7265.8100	35.25	9.88	45.13	74.00	-28.87	Peak	
2 *	7266.0510	31.18	9.88	41.06	54.00	-12.94	AVG	

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

**Vertical**

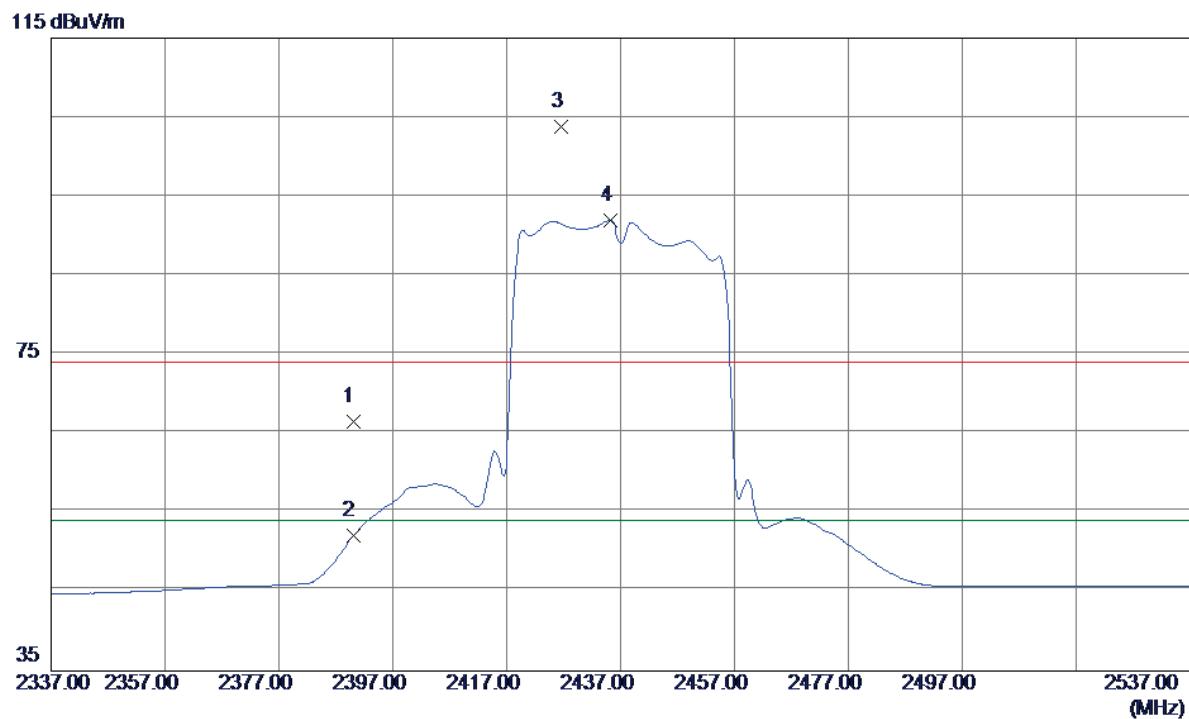
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.60	32.78	61.38	74.00	-12.62	Peak	
2	2390.0000	16.66	32.78	49.44	54.00	-4.56	AVG	
3 *	2435.2000	54.93	33.02	87.95	54.00	33.95	AVG	NO LIMIT
4	2439.6000	66.51	33.04	99.55	74.00	25.55	Peak	NO LIMIT

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

**Vertical**

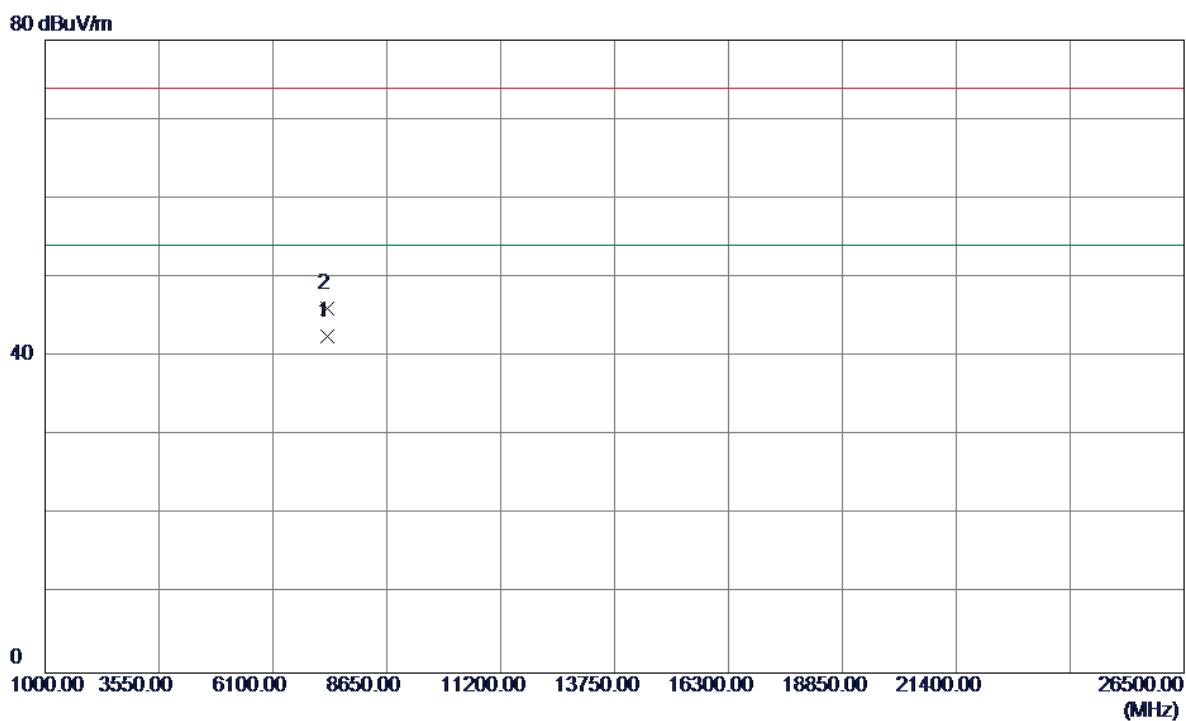
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7310.7870	34.86	9.97	44.83	74.00	-29.17	Peak	
2 *	7310.2270	31.07	9.97	41.04	54.00	-12.96	AVG	

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

**Horizontal**

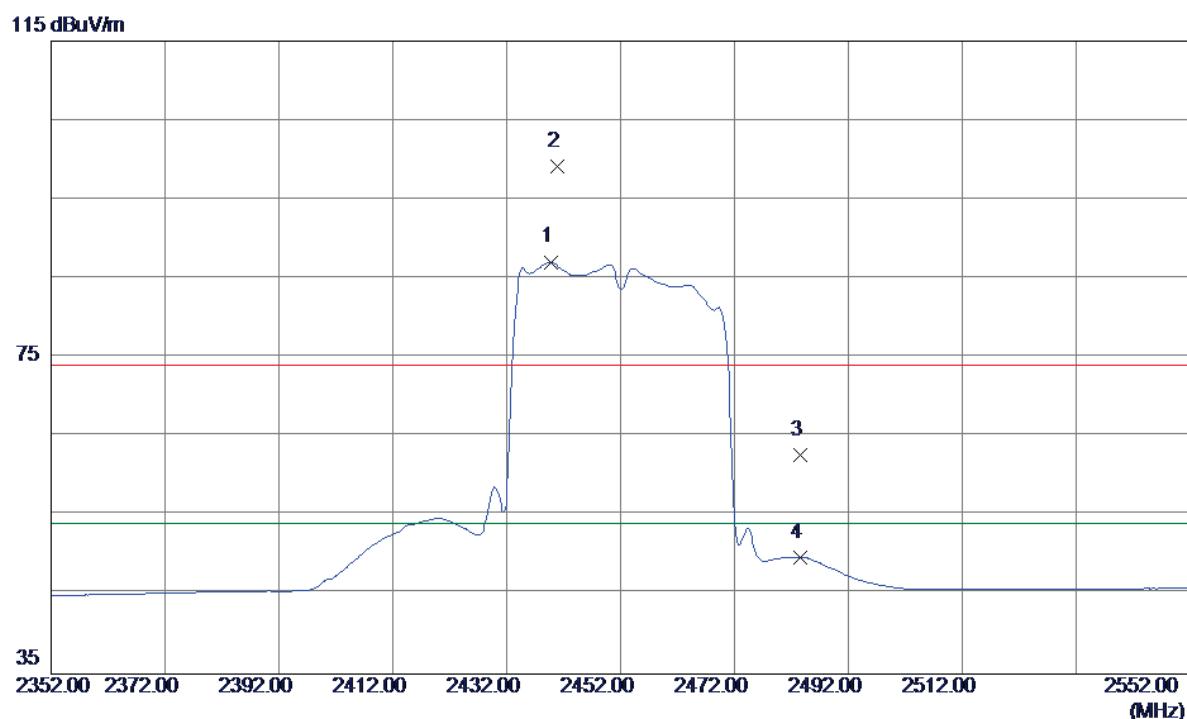
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.80	32.78	66.58	74.00	-7.42	Peak	
2	2390.0000	19.38	32.78	52.16	54.00	-1.84	Avg	
3	2426.5000	70.80	32.97	103.77	74.00	29.77	Peak	NO LIMIT
4 *	2435.2000	58.98	33.02	92.00	54.00	38.00	Avg	NO LIMIT

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

**Horizontal**

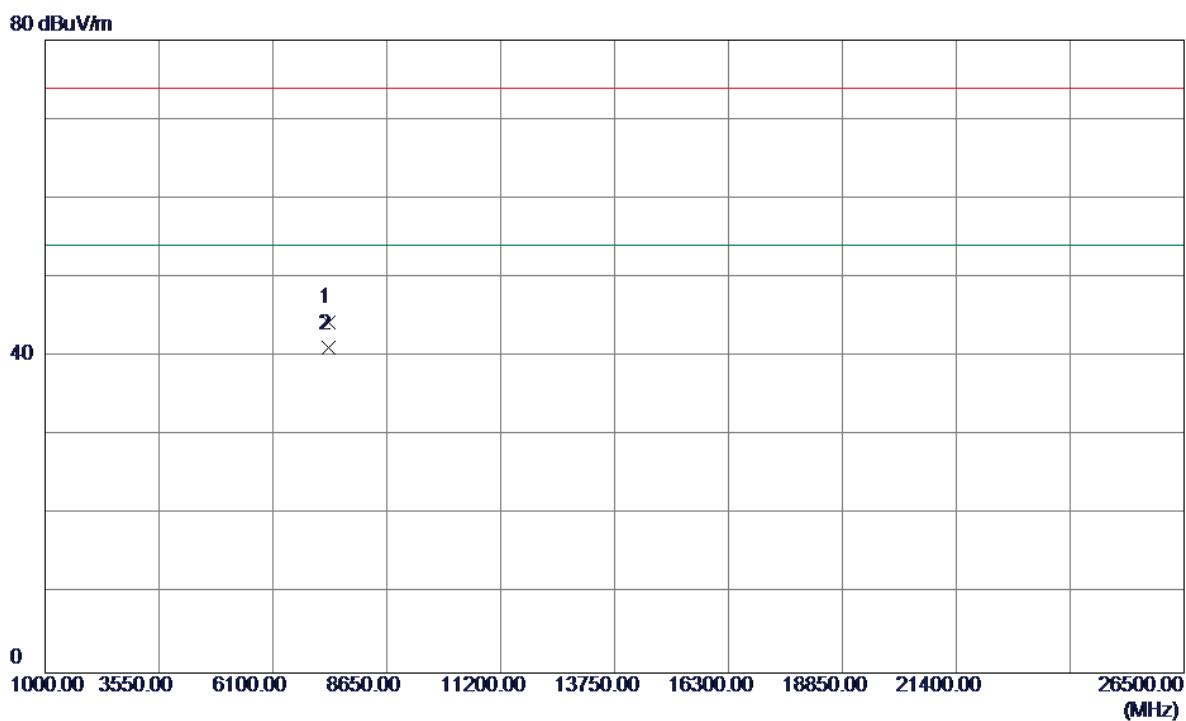
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7310.6820	32.53	9.97	42.50	54.00	-11.50	AVG	
2	7309.9840	36.12	9.97	46.09	74.00	-27.91	Peak	

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

**Vertical**

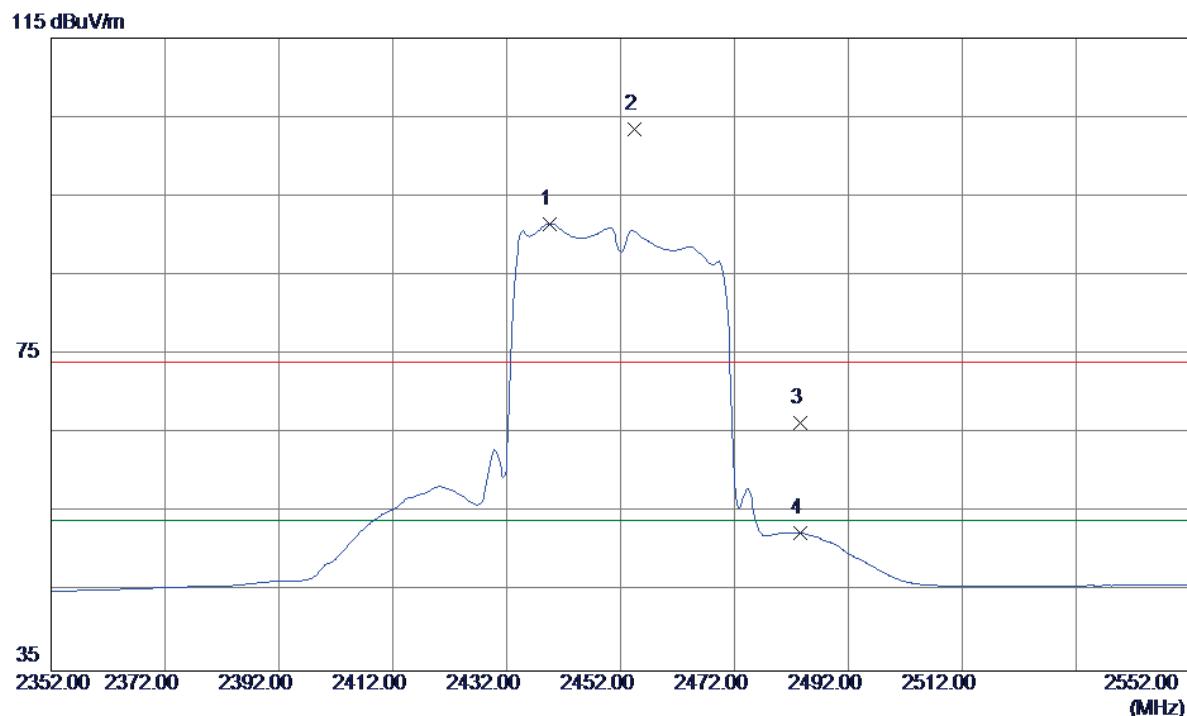
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2439.7000	54.04	33.04	87.08	54.00	33.08	AVG	NO LIMIT
2	2440.9000	66.16	33.05	99.21	74.00	25.21	Peak	NO LIMIT
3	2483.5000	29.36	33.28	62.64	74.00	-11.36	Peak	
4	2483.5000	16.51	33.28	49.79	54.00	-4.21	AVG	

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

**Vertical**

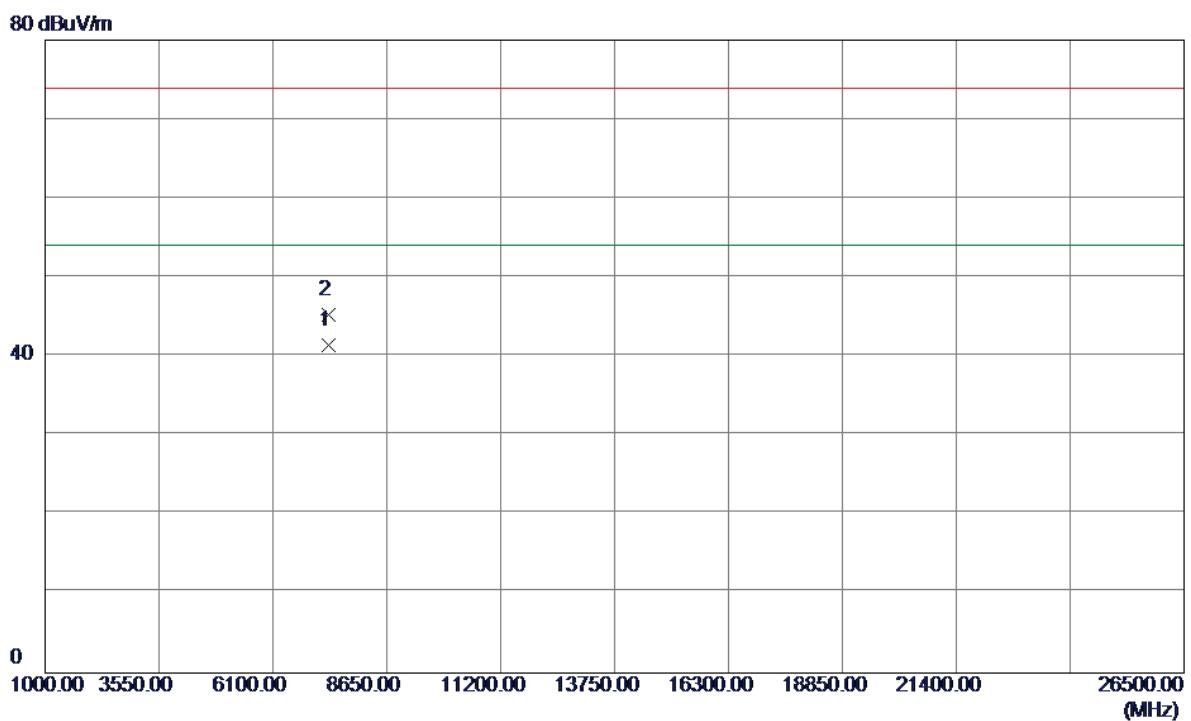
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7355.3280	34.23	10.06	44.29	74.00	-29.71	Peak	
2 *	7355.9040	30.97	10.07	41.04	54.00	-12.96	AVG	

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2439.5000	58.50	33.04	91.54	54.00	37.54	AVG	NO LIMIT
2	2454.4000	70.32	33.12	103.44	74.00	29.44	Peak	NO LIMIT
3	2483.5000	33.13	33.28	66.41	74.00	-7.59	Peak	
4	2483.5000	19.13	33.28	52.41	54.00	-1.59	AVG	

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

**Horizontal**

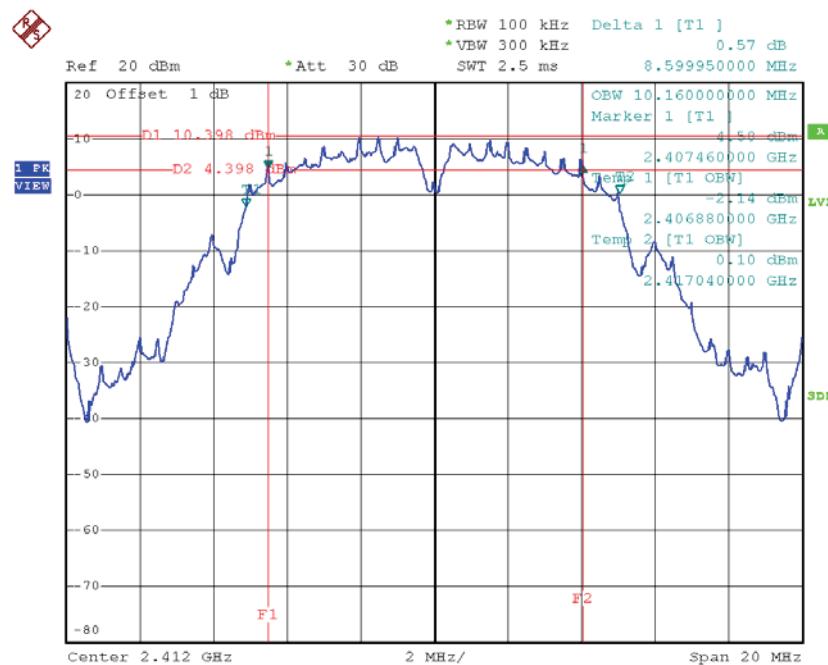
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7356.0200	31.37	10.07	41.44	54.00	-12.56	AVG	
2	7355.3130	35.21	10.06	45.27	74.00	-28.73	Peak	

## ATTACHMENT E - BANDWIDTH

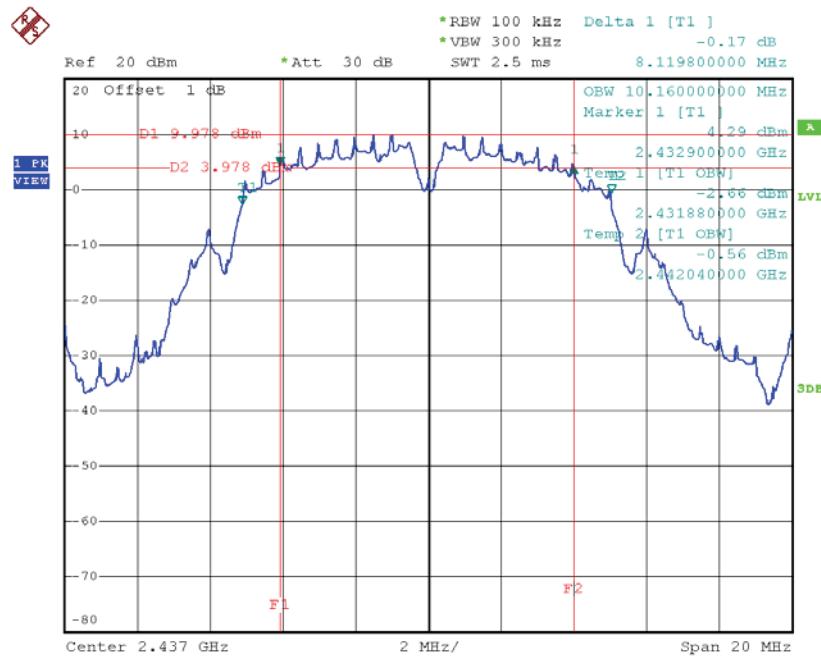
### Test Mode : TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.60	10.16	500	Complies
2437	8.12	10.16	500	Complies
2462	8.12	10.16	500	Complies

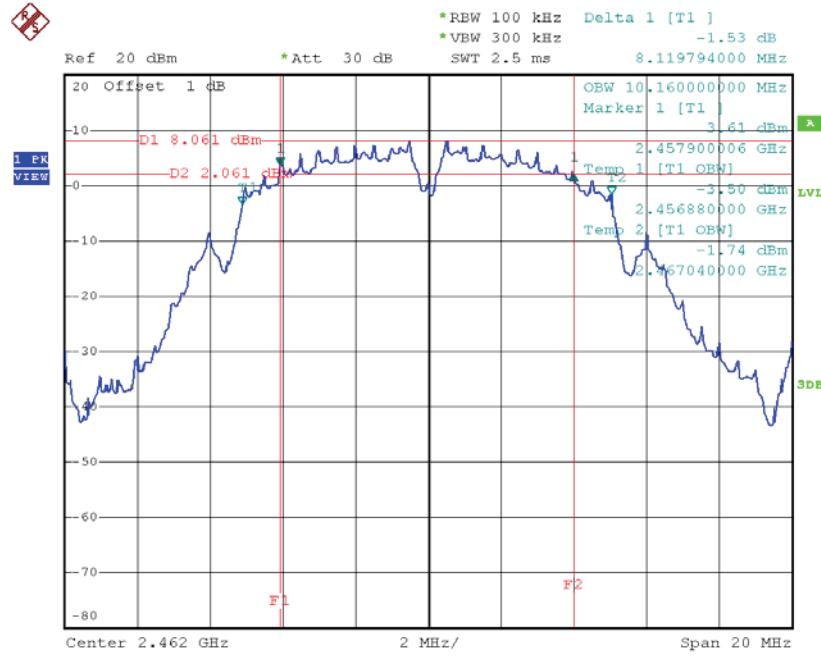
### TX CH01



Date: 3.JUN.2016 16:15:56

**TX CH06**

Date: 3.JUN.2016 16:17:34

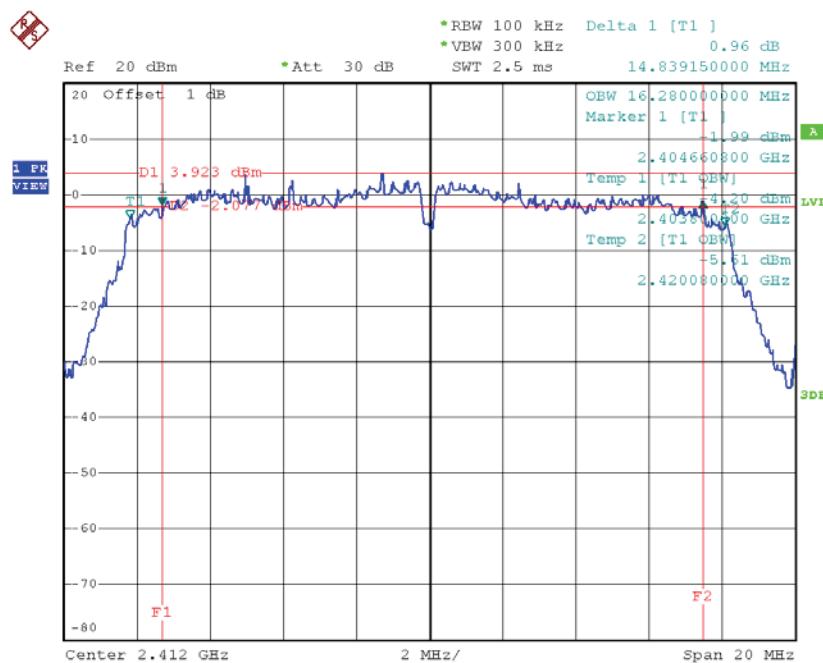
**TX CH11**

Date: 3.JUN.2016 16:23:13

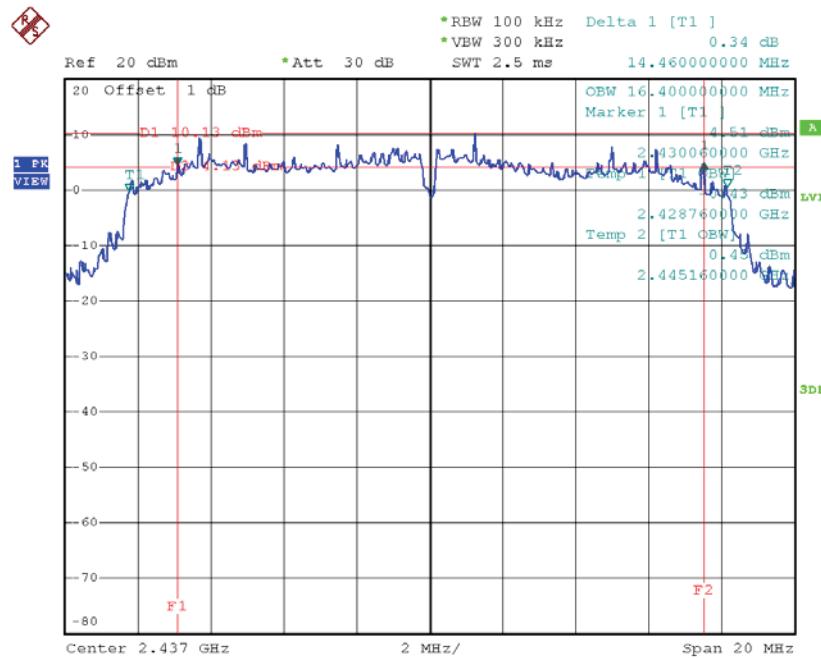
**Test Mode: TX G Mode\_CH01/06/11**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	14.84	16.28	500	Complies
2437	14.46	16.40	500	Complies
2462	14.52	16.32	500	Complies

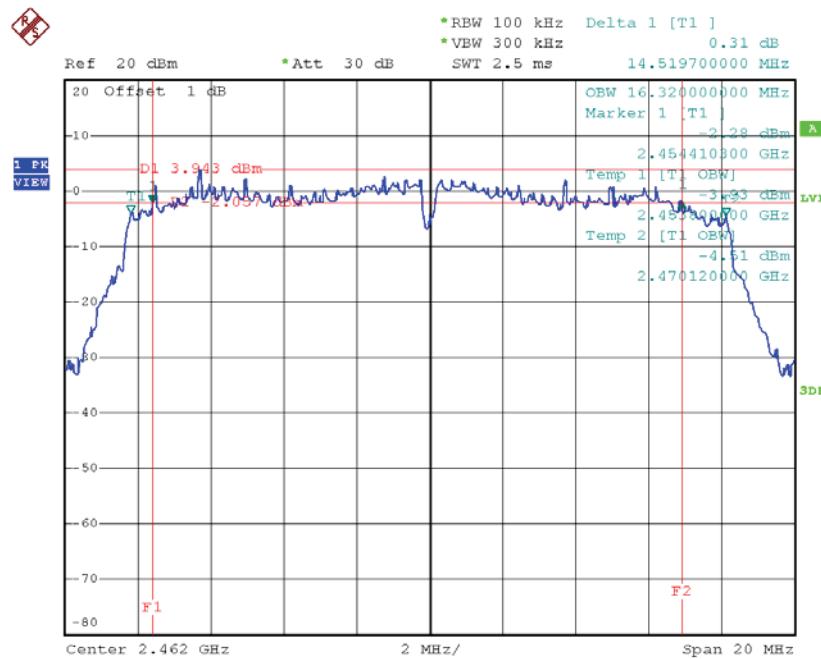
**TX CH01**



Date: 3.JUN.2016 16:24:32

**TX CH06**

Date: 3.JUN.2016 16:25:45

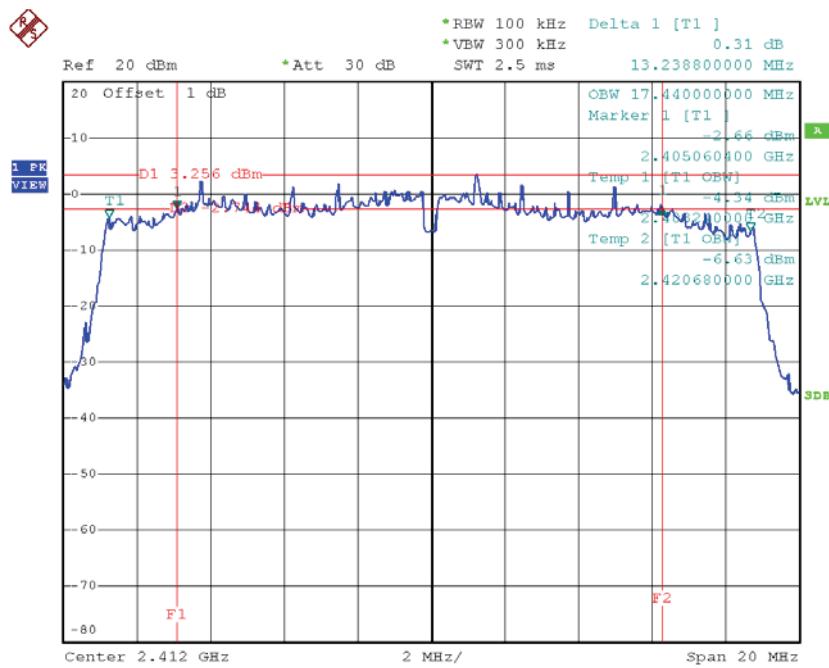
**TX CH11**

Date: 3.JUN.2016 16:26:51

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

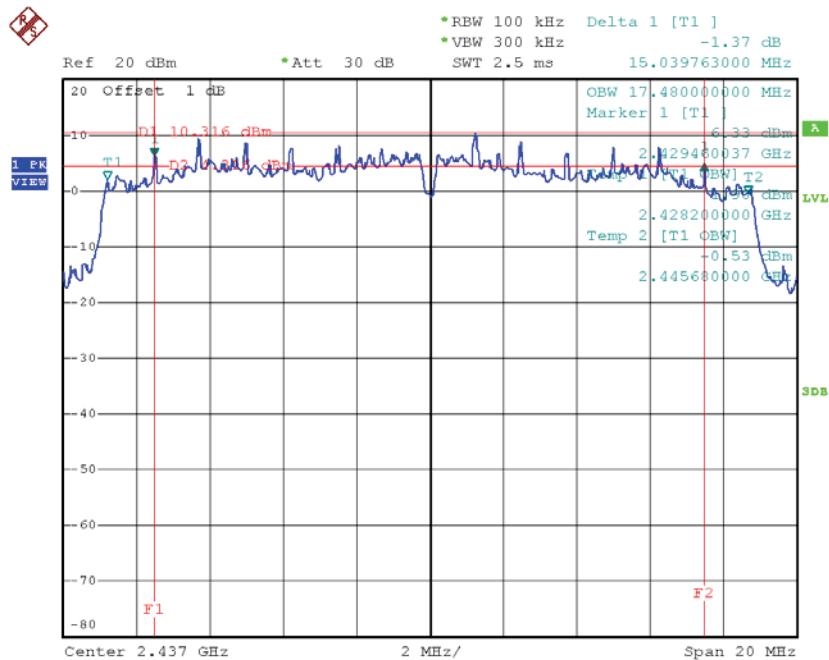
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	13.24	17.44	500	Complies
2437	15.04	17.48	500	Complies
2462	15.11	17.40	500	Complies

**TX CH01**



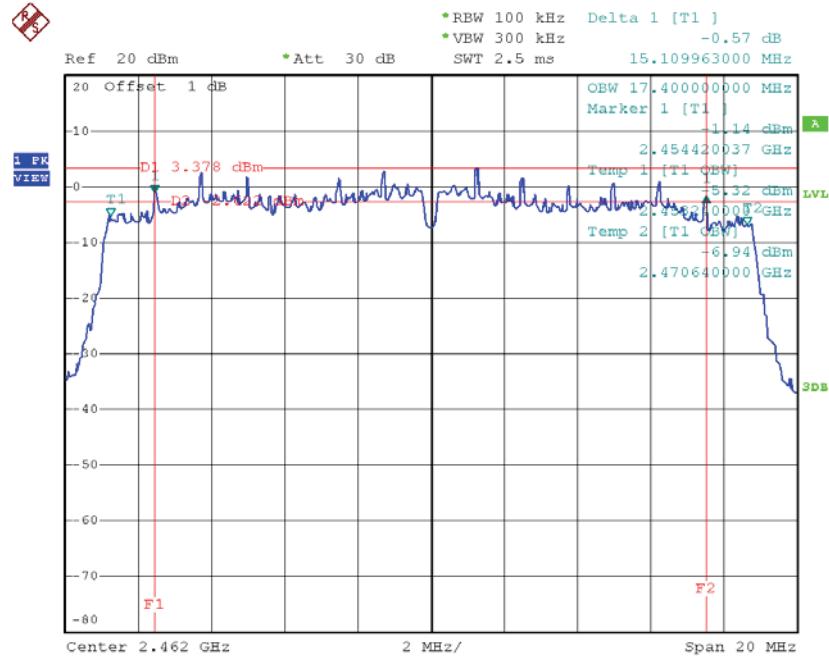
Date: 3.JUN.2016 16:28:22

## TX CH06



Date: 3.JUN.2016 16:29:33

## TX CH11

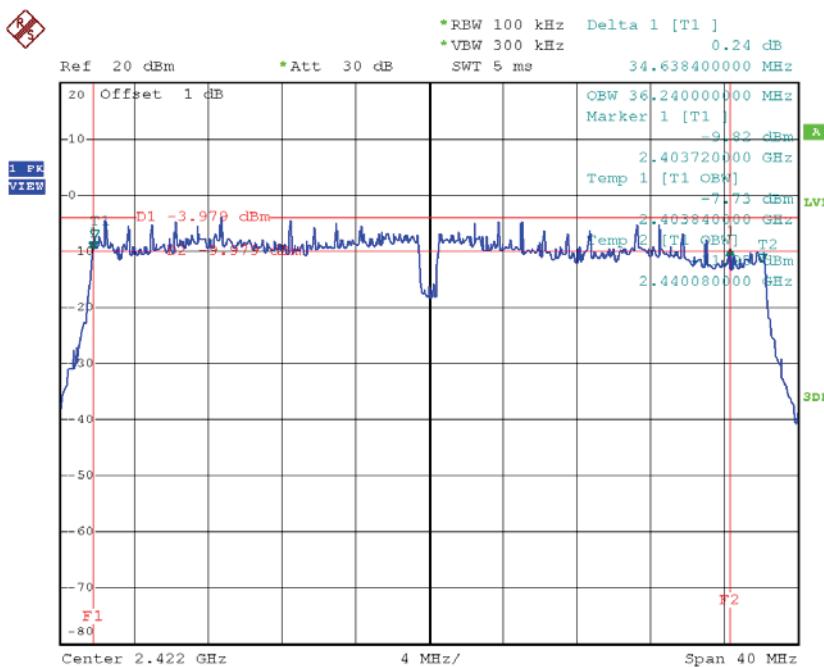


Date: 3.JUN.2016 16:30:45

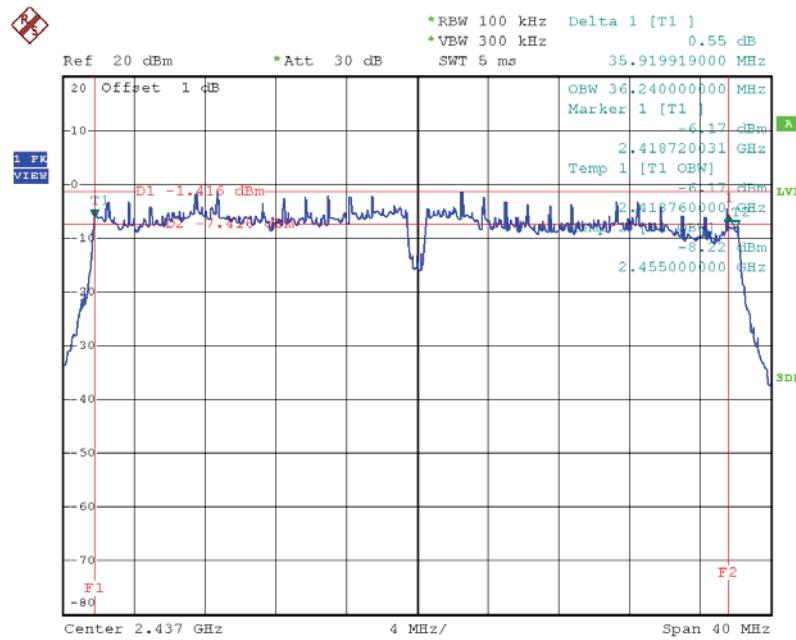
**Test Mode : TX N-40MHz Mode\_CH03/06/09**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	34.64	36.24	500	Complies
2437	35.92	36.24	500	Complies
2452	35.91	36.32	500	Complies

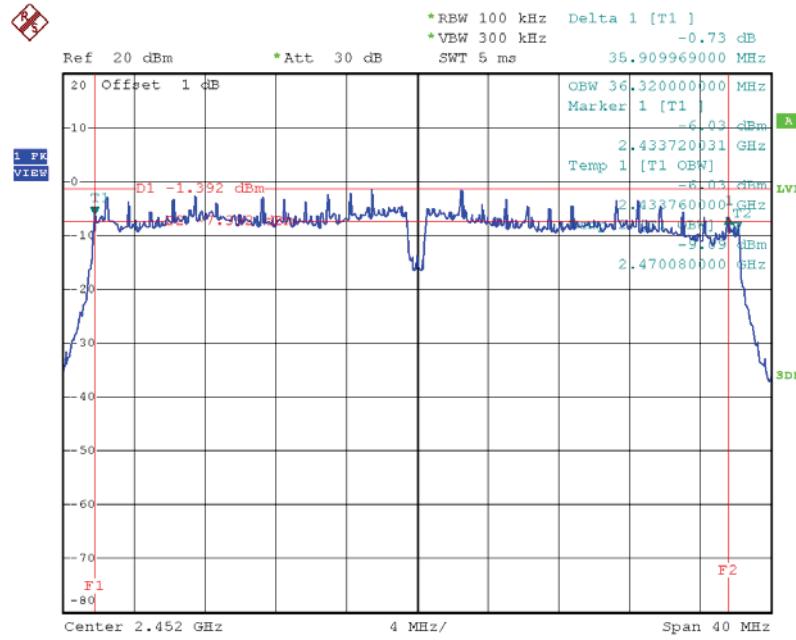
**TX CH03**



Date: 3.JUN.2016 16:35:02

**TX CH06**

Date: 3.JUN.2016 16:36:12

**TX CH09**

Date: 3.JUN.2016 16:37:10

**ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT  
POWER**

<b>Test Mode :TX B Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.76	0.24	30.00	1.00	Complies
2437	23.41	0.22	30.00	1.00	Complies
2462	22.20	0.17	30.00	1.00	Complies

<b>Test Mode :TX G Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.50	0.28	30.00	1.00	Complies
2437	26.32	0.43	30.00	1.00	Complies
2462	25.10	0.32	30.00	1.00	Complies

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	24.30	0.27	30.00	1.00	Complies
2437	27.10	0.51	30.00	1.00	Complies
2462	23.72	0.24	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	22.49	0.18	30.00	1.00	Complies
2437	24.11	0.26	30.00	1.00	Complies
2462	24.26	0.27	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	26.50	0.45	30.00	1.00	Complies
2437	28.87	0.77	30.00	1.00	Complies
2462	27.01	0.50	30.00	1.00	Complies

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	20.42	0.11	30.00	1.00	Complies
2437	22.69	0.19	30.00	1.00	Complies
2452	22.26	0.17	30.00	1.00	Complies

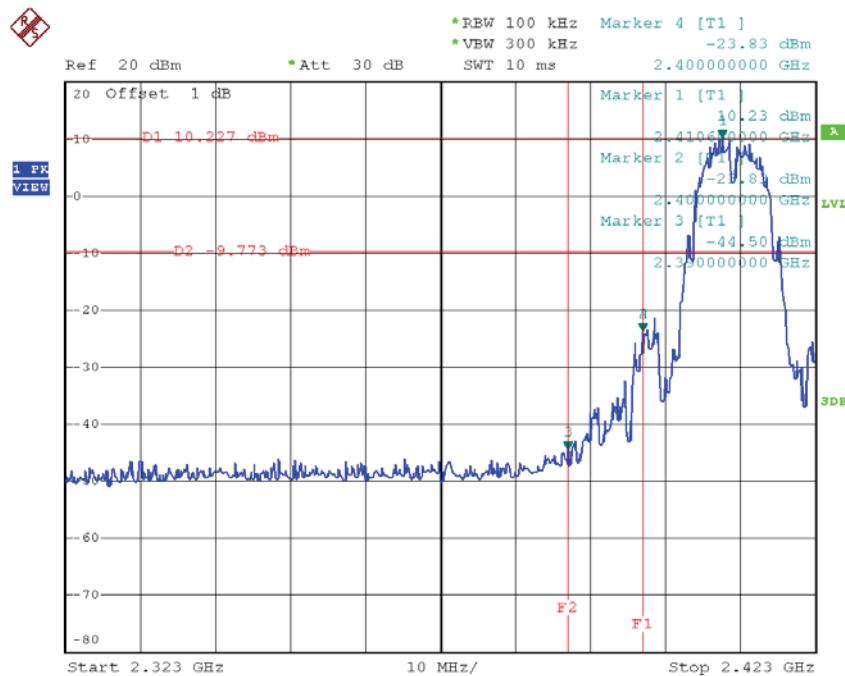
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.94	0.12	30.00	1.00	Complies
2437	21.39	0.14	30.00	1.00	Complies
2452	19.92	0.10	30.00	1.00	Complies

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	23.70	0.23	30.00	1.00	Complies
2437	25.10	0.32	30.00	1.00	Complies
2452	24.26	0.27	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**

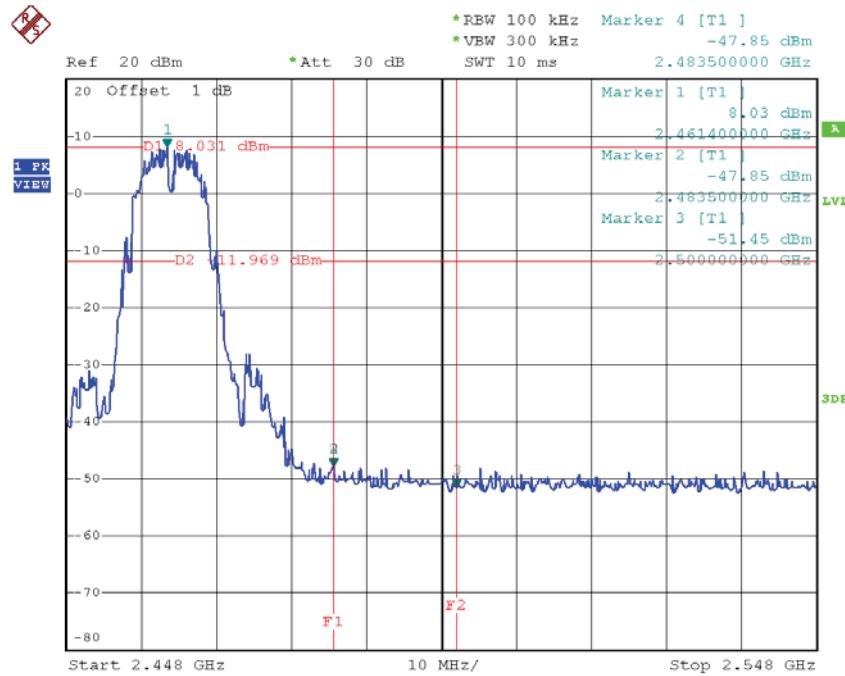
**Test Mode :** TX B Mode

### TX B mode CH01

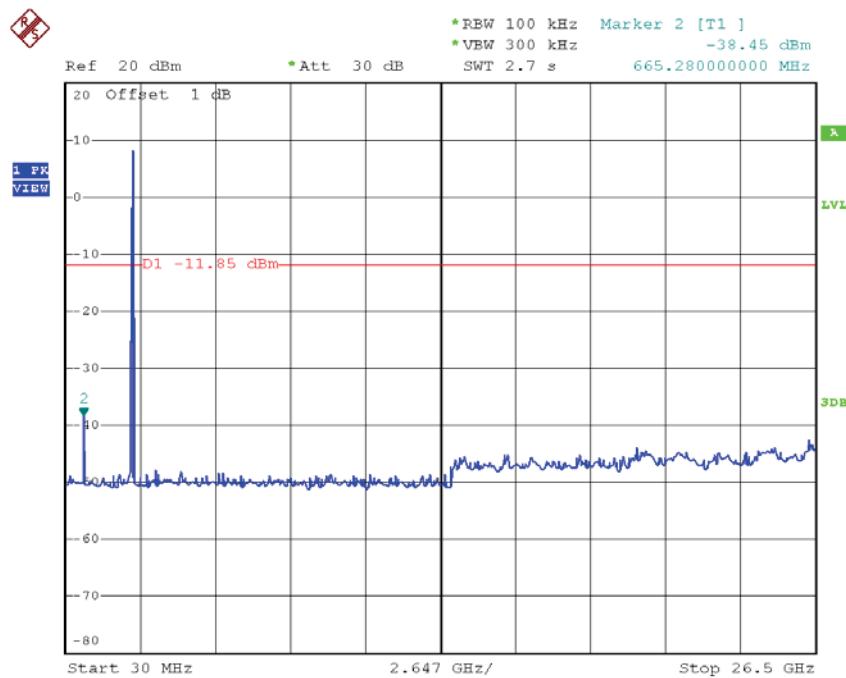


Date: 3.JUN.2016 16:16:18

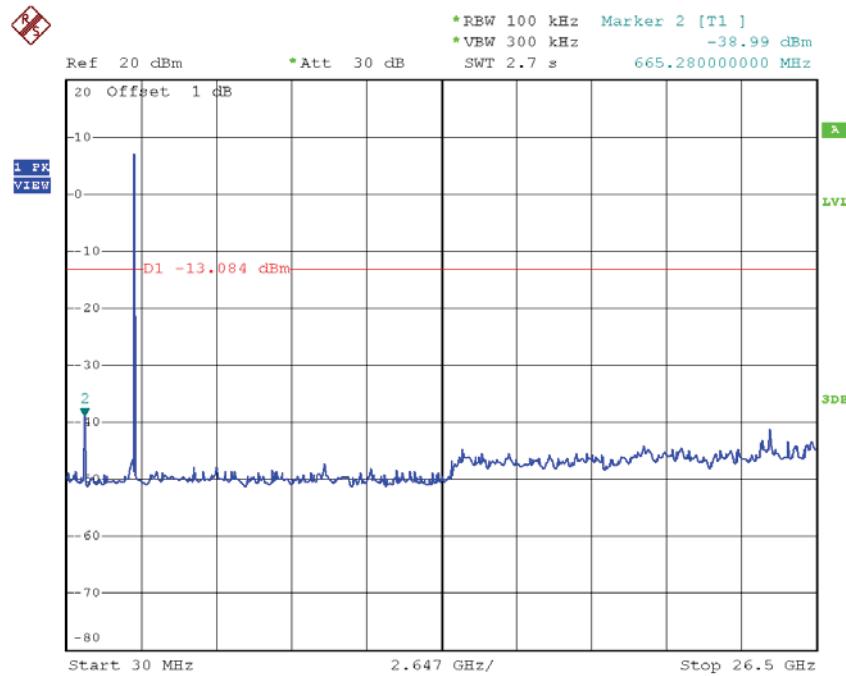
### TX B mode CH11



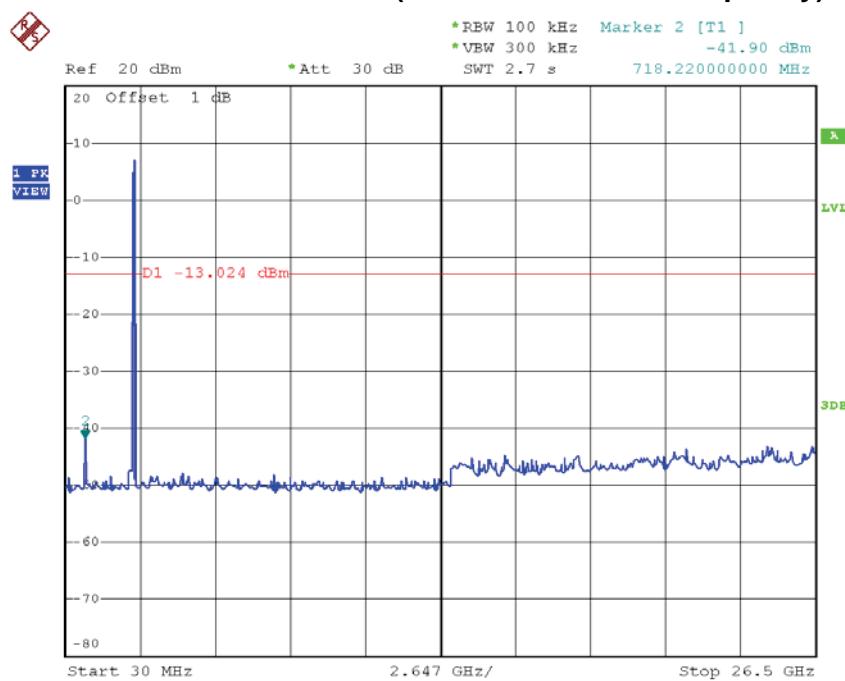
Date: 3.JUN.2016 16:23:35

**TX B mode CH01 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:16:10

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

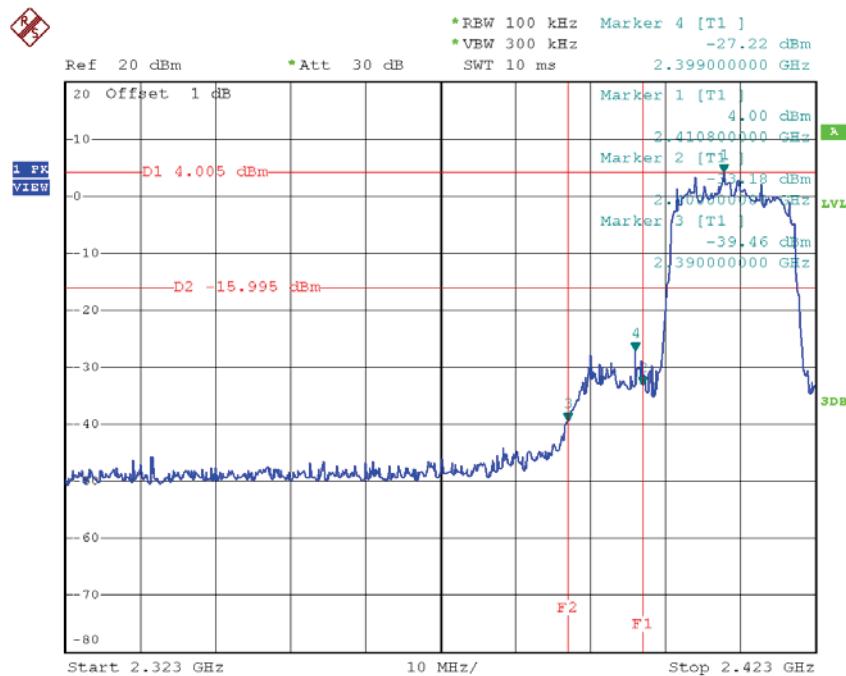
Date: 3.JUN.2016 16:17:48

**TX B mode CH11 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:23:27

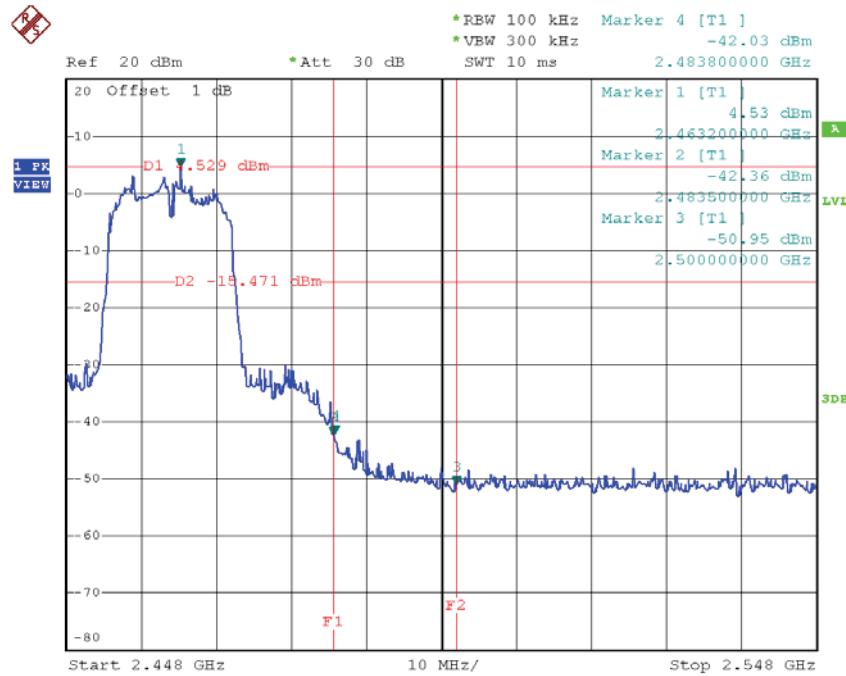
**Test Mode : TX G Mode**

### TX G mode CH01

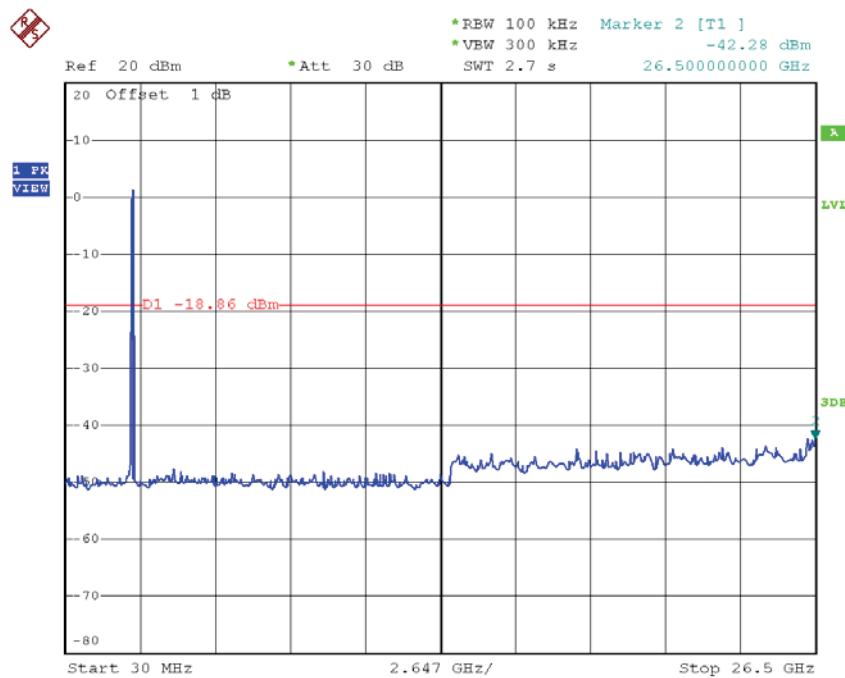


Date: 3.JUN.2016 16:24:54

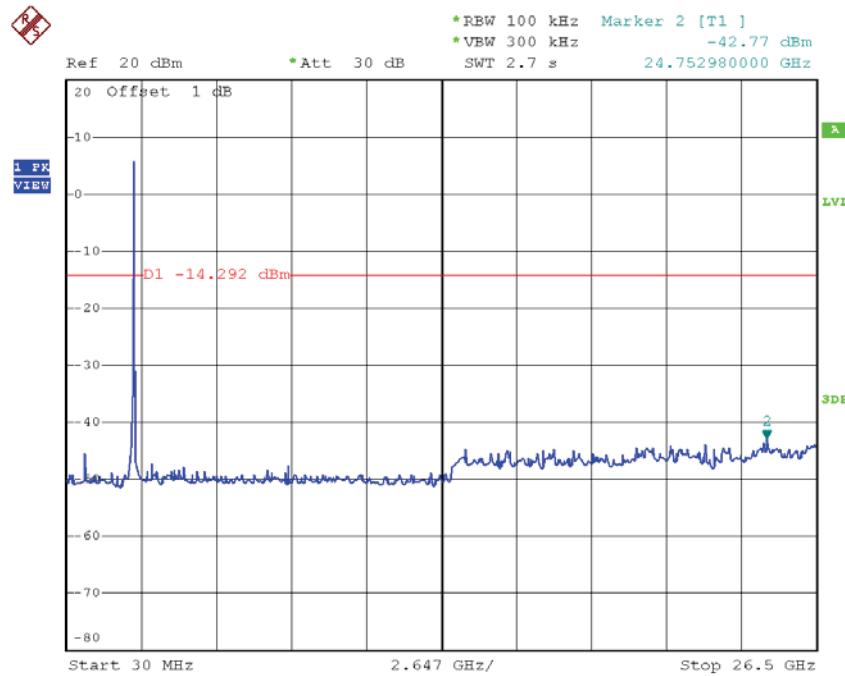
### TX G mode CH11



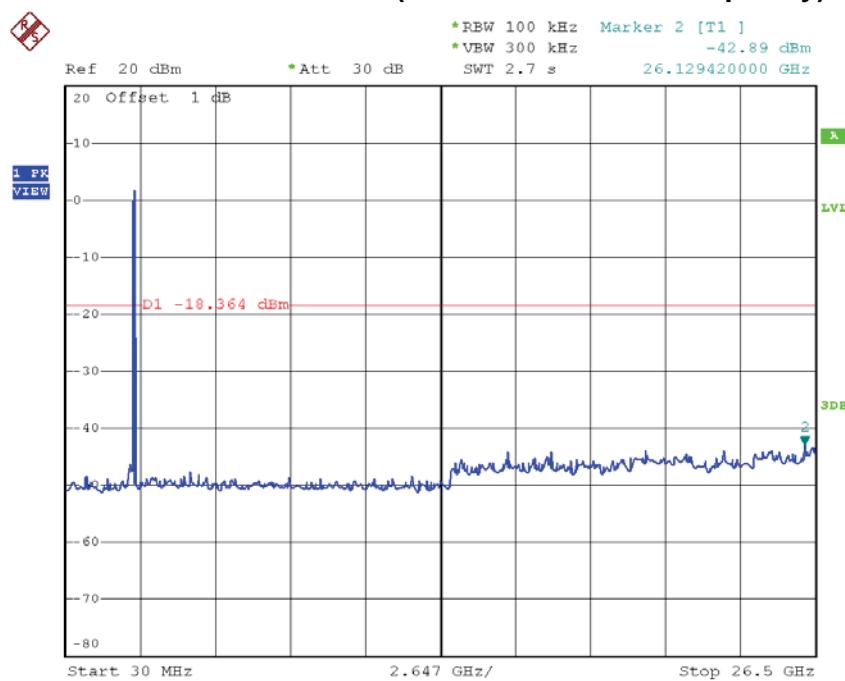
Date: 3.JUN.2016 16:27:13

**TX G mode CH01 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:24:46

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

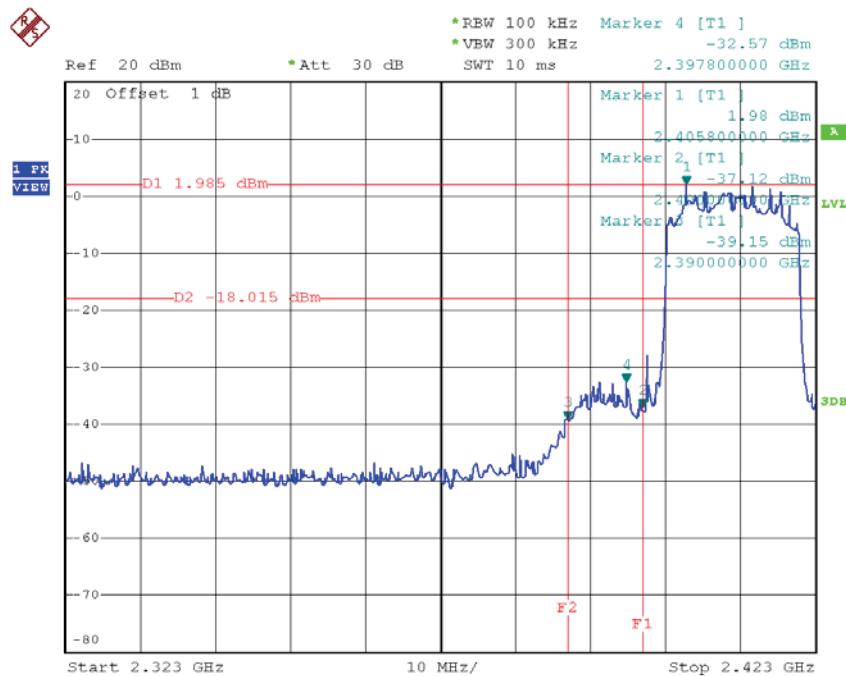
Date: 3.JUN.2016 16:25:59

**TX G mode CH11 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:27:05

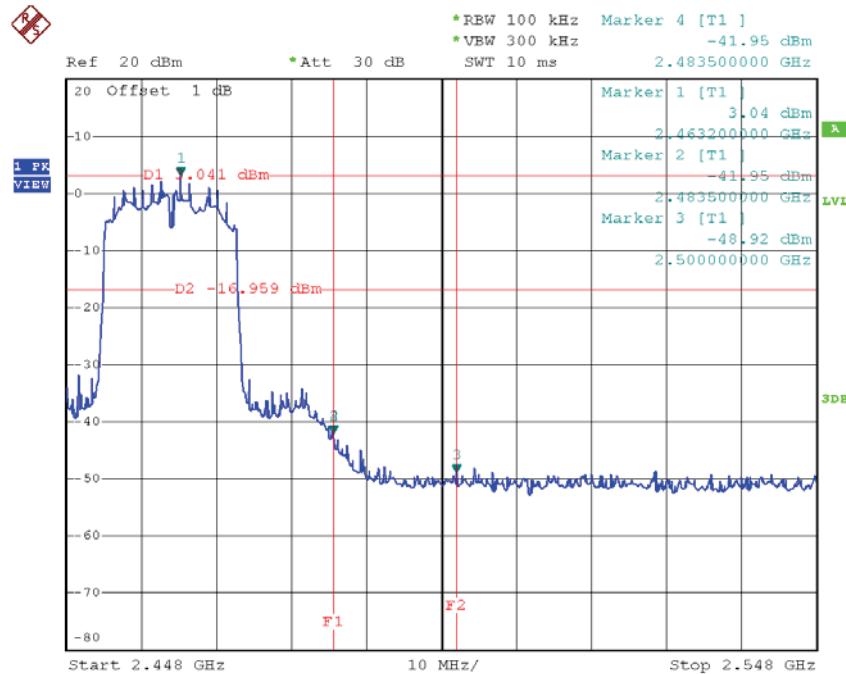
**Test Mode : TX N-20M Mode\_ANT 1**

### TX HT20 mode CH01

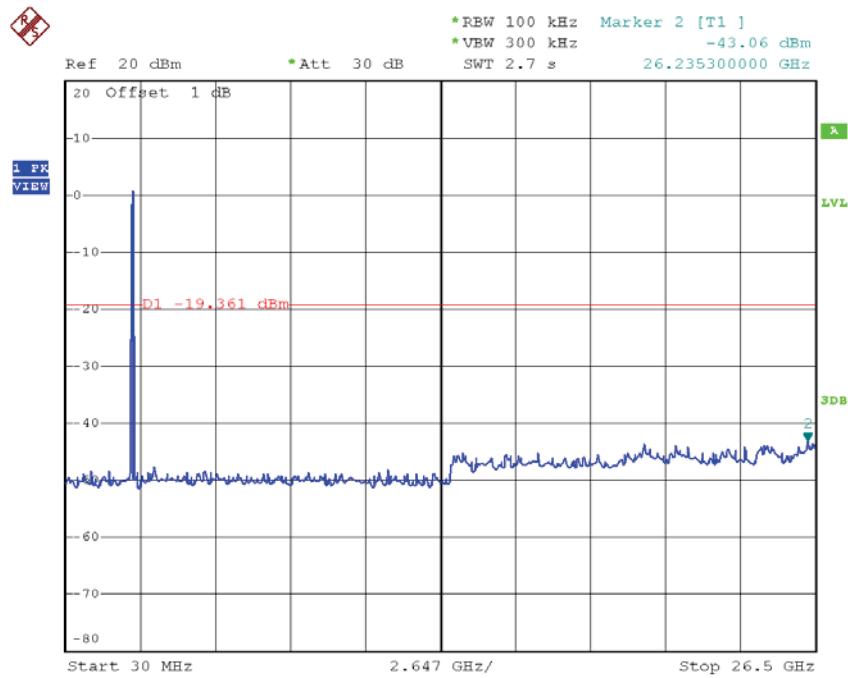


Date: 3.JUN.2016 16:28:43

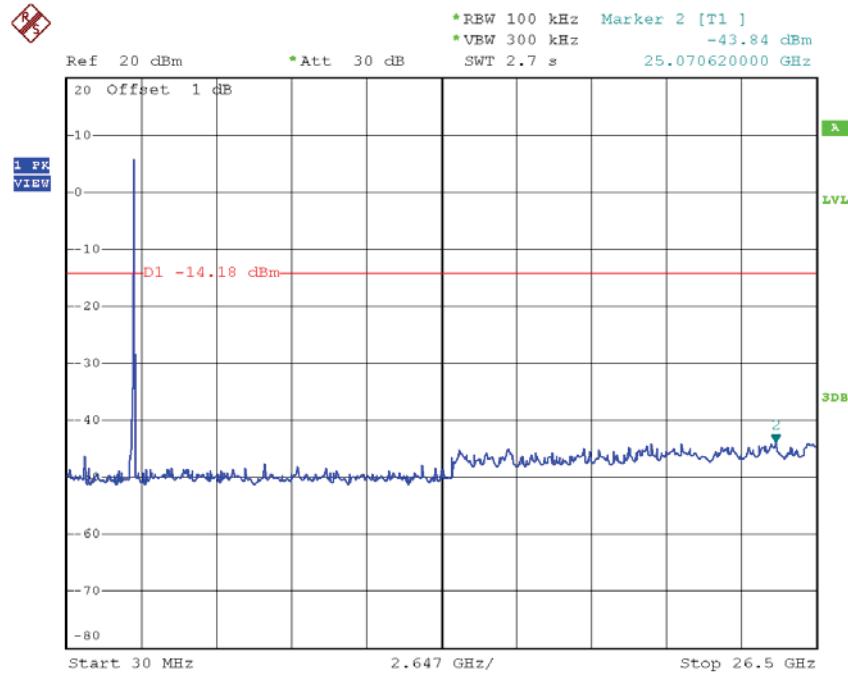
### TX HT20 mode CH11



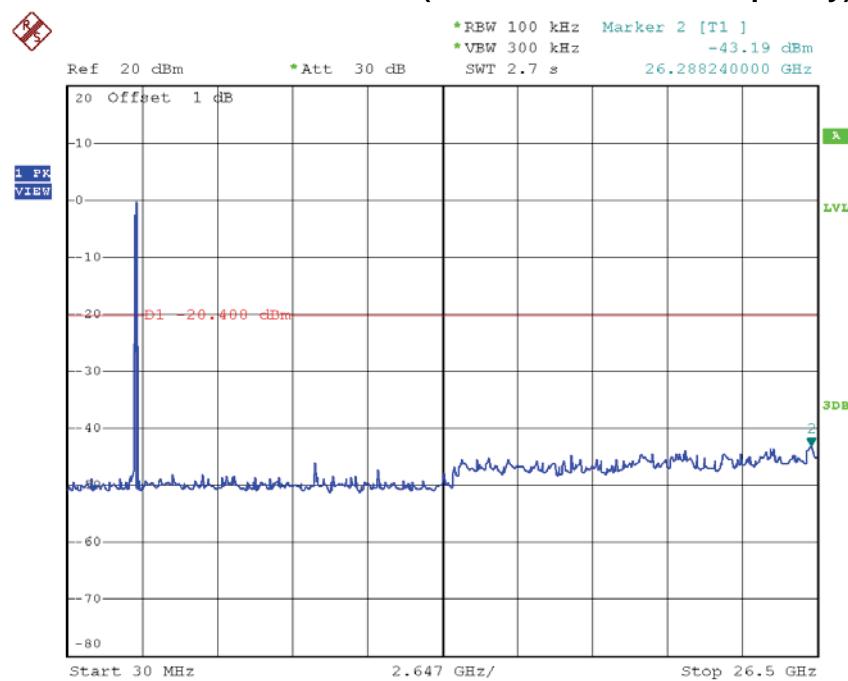
Date: 3.JUN.2016 16:31:07

**TX HT20 mode CH01 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:28:35

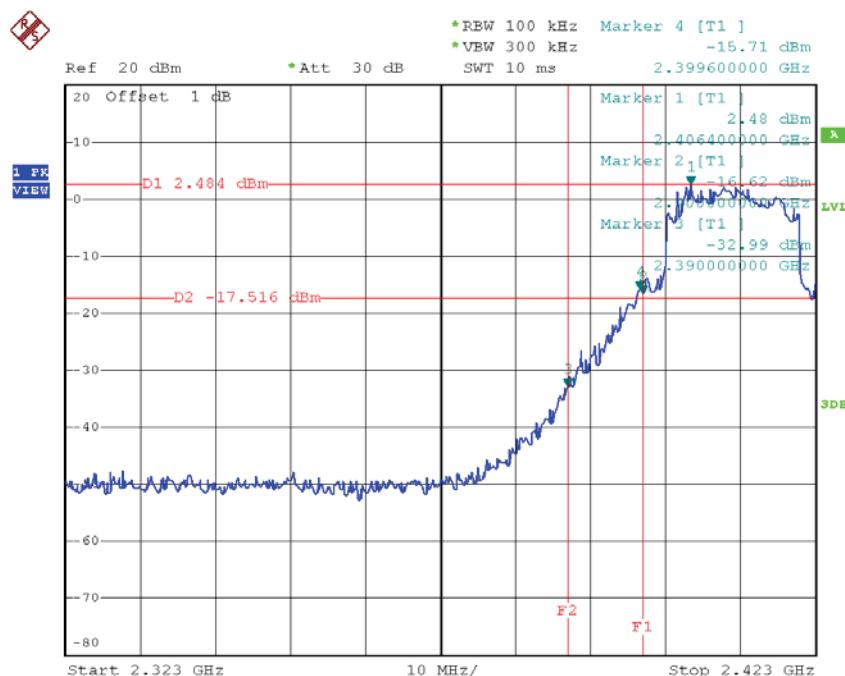
**TX HT20 mode CH06 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:29:47

**TX HT20 mode CH11 (10 Harmonic of the frequency)**

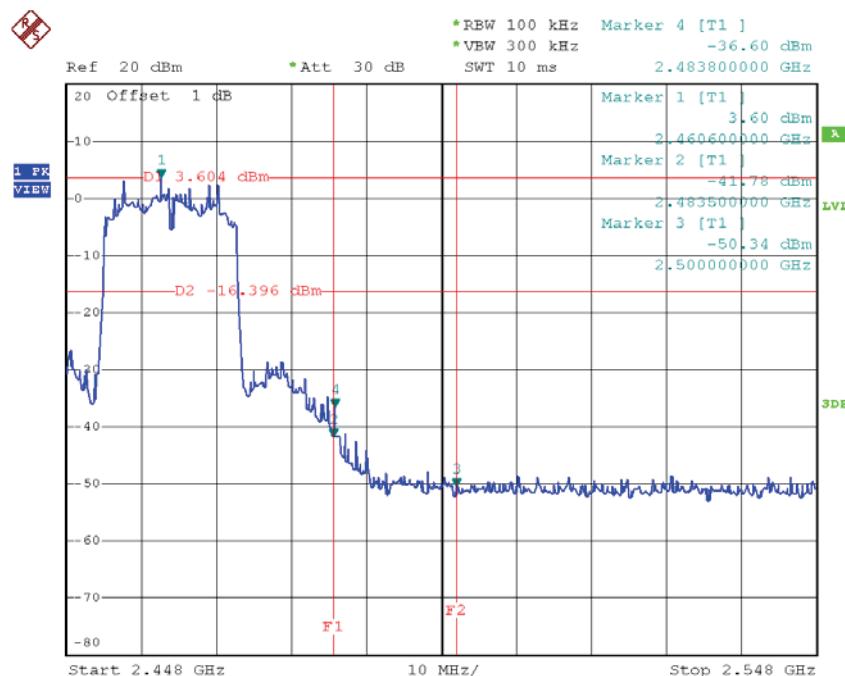
**Test Mode : TX N-20M Mode\_ANT 2**

### TX HT20 mode CH01



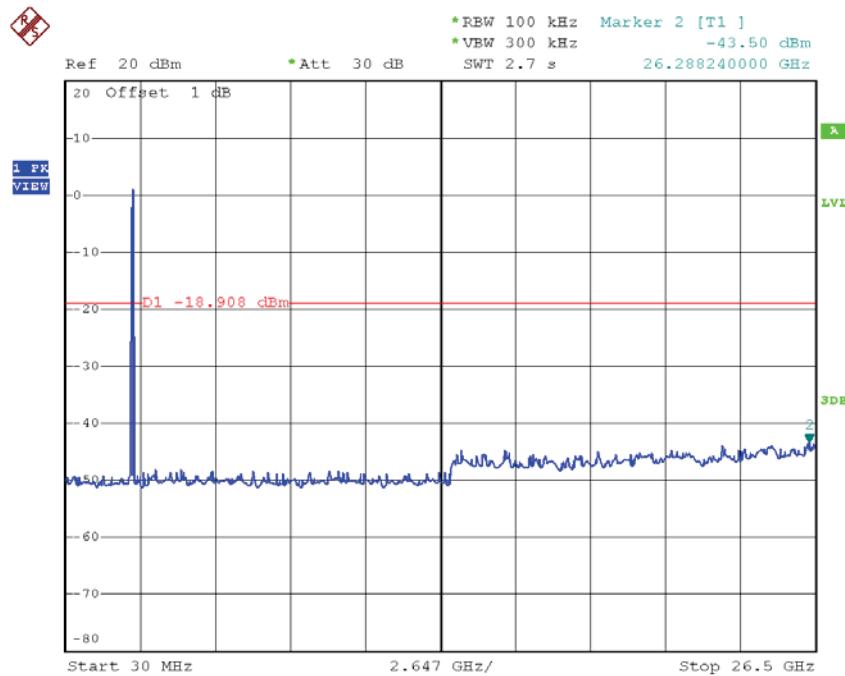
Date: 3.JUN.2016 16:40:10

### TX HT20 mode CH11



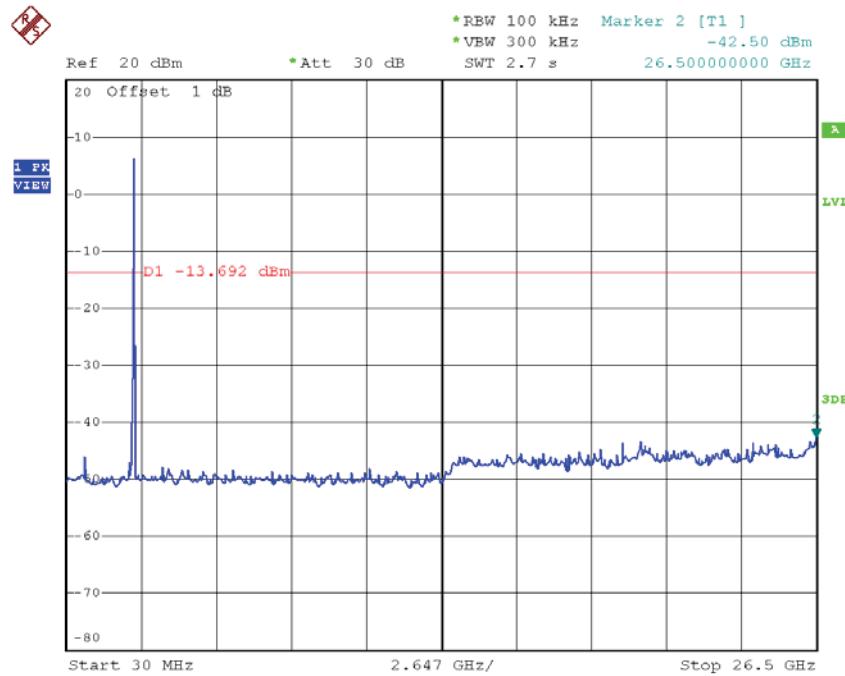
Date: 3.JUN.2016 16:42:26

### TX HT20 mode CH01 (10 Harmonic of the frequency)

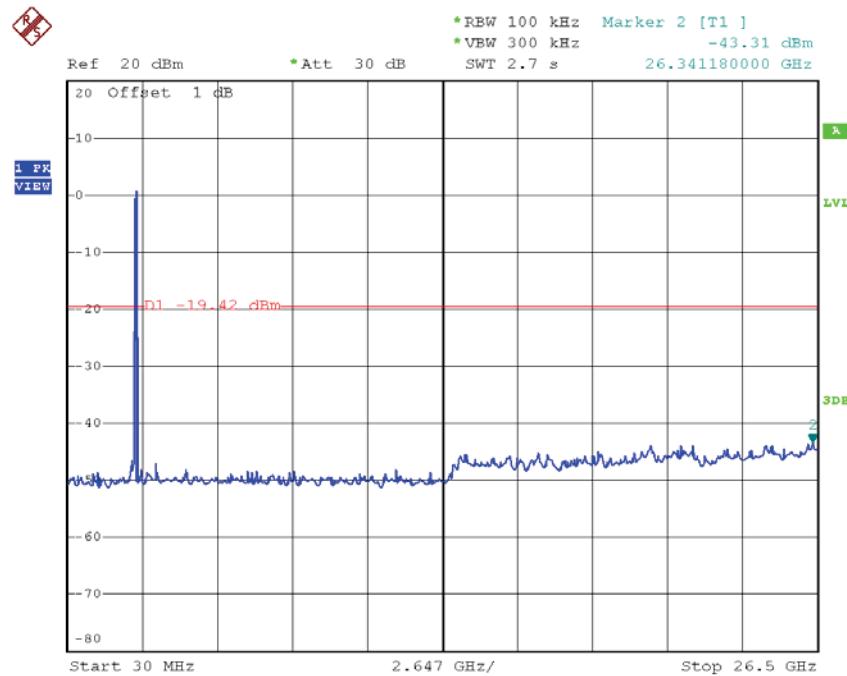


Date: 3.JUN.2016 16:40:02

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



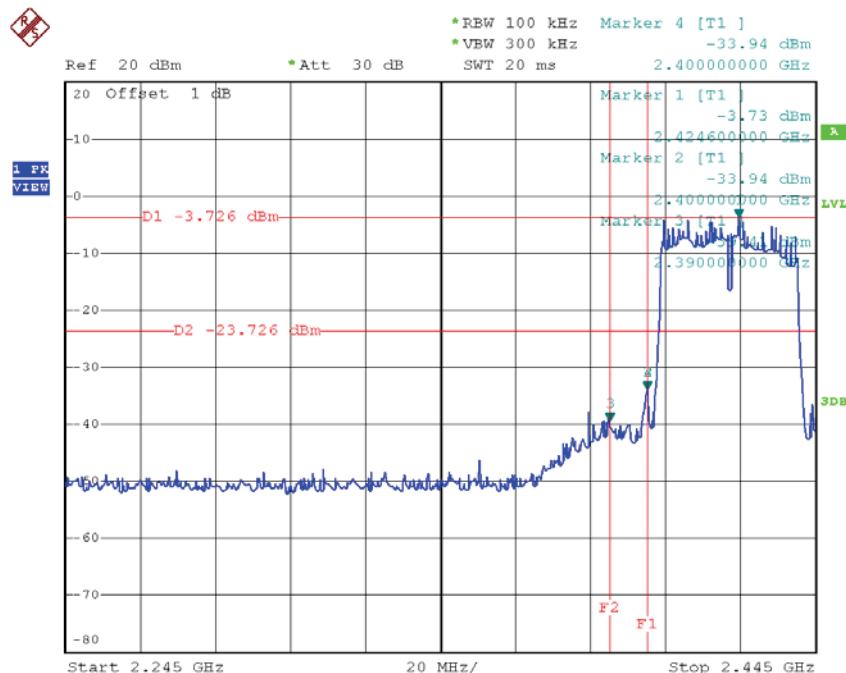
Date: 3.JUN.2016 16:41:16

**TX HT20 mode CH11 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:42:18

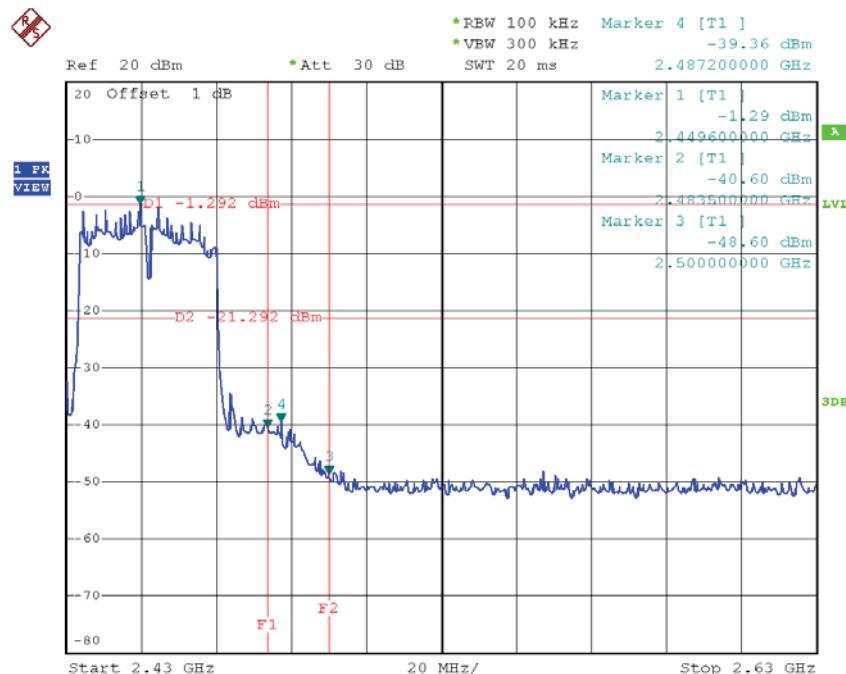
**Test Mode :** TX N-40M Mode\_ANT 1

### TX HT40 mode CH03

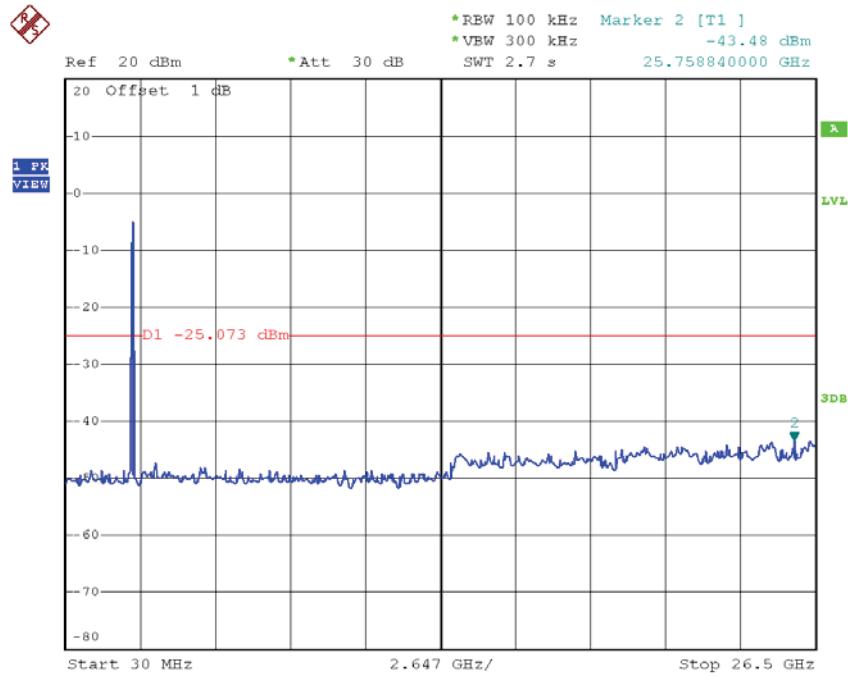


Date: 3.JUN.2016 16:35:24

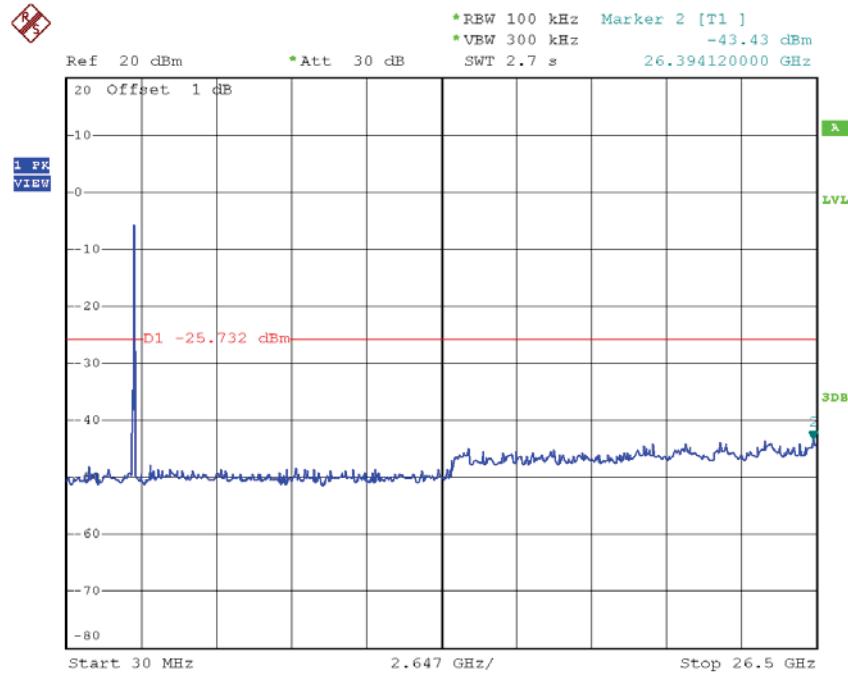
### TX HT40 mode CH09



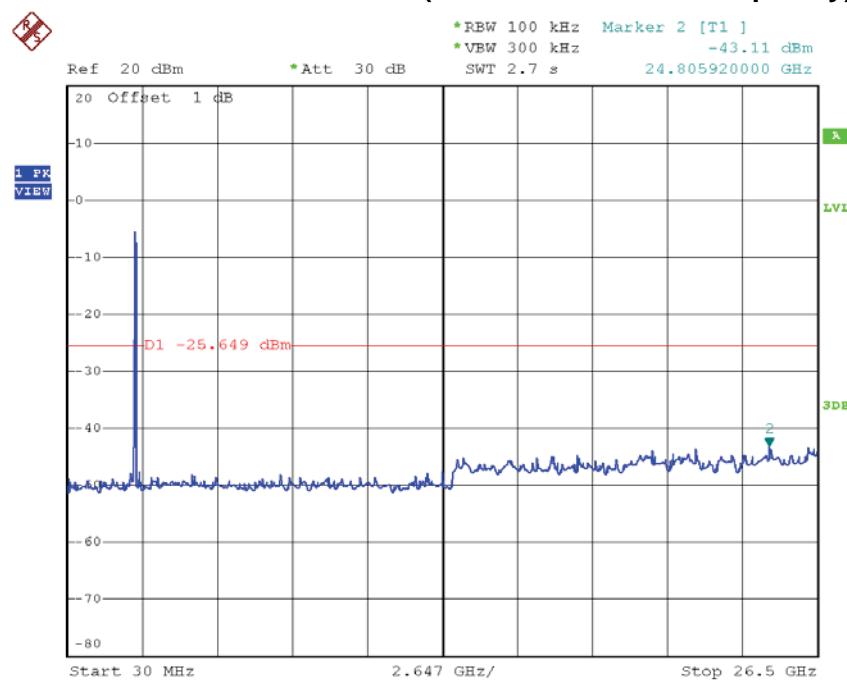
Date: 3.JUN.2016 16:37:31

**TX HT40 mode CH03 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:35:17

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

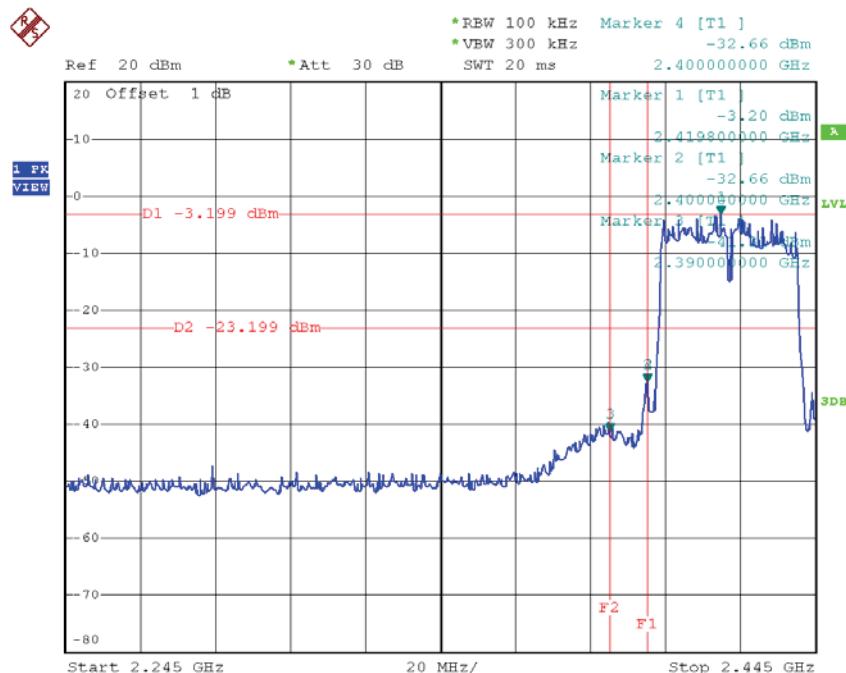
Date: 3.JUN.2016 16:36:27

**TX HT40 mode CH09 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:37:23

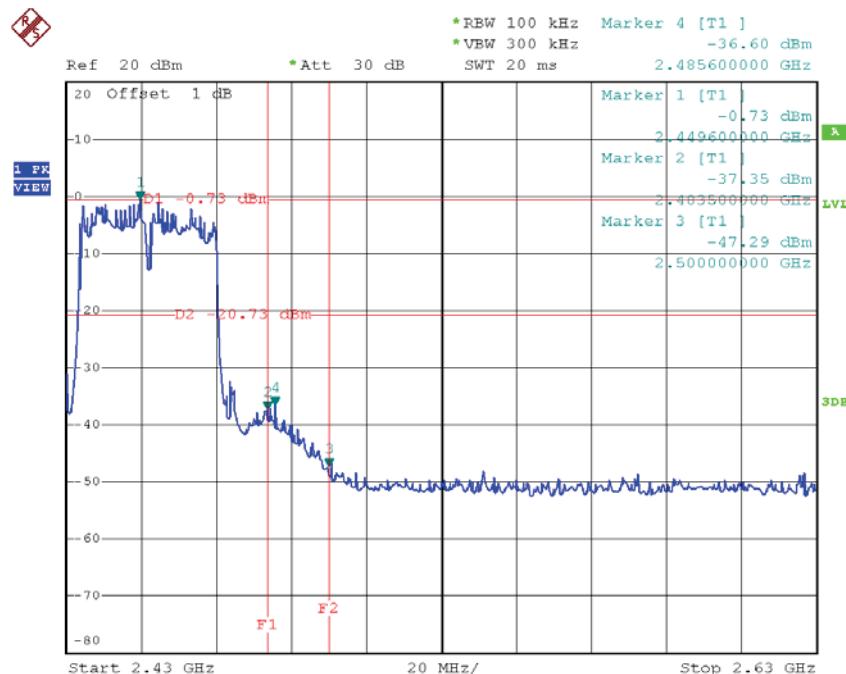
**Test Mode : TX N-40M Mode\_ANT 2**

### TX HT40 mode CH03

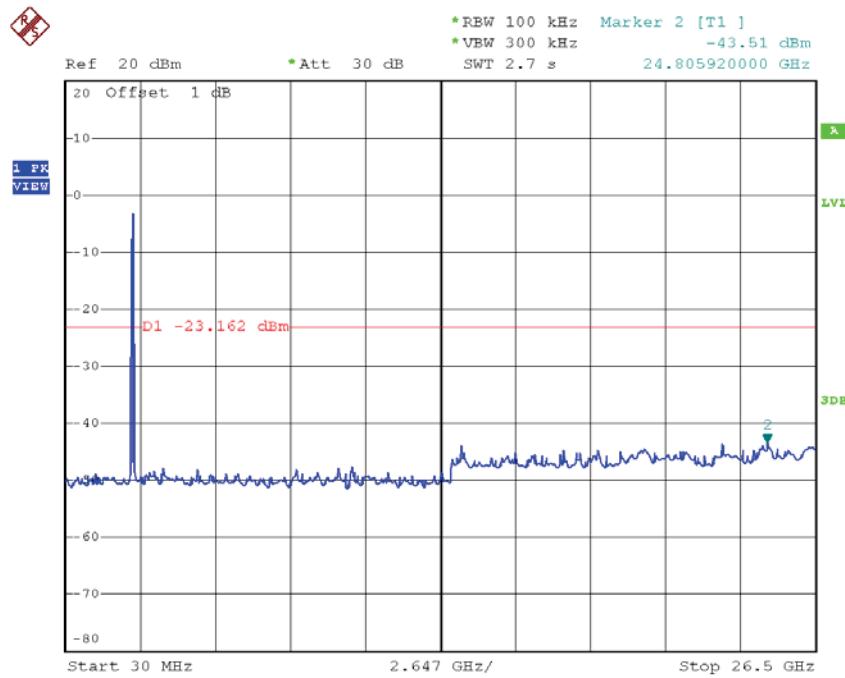


Date: 3.JUN.2016 16:43:53

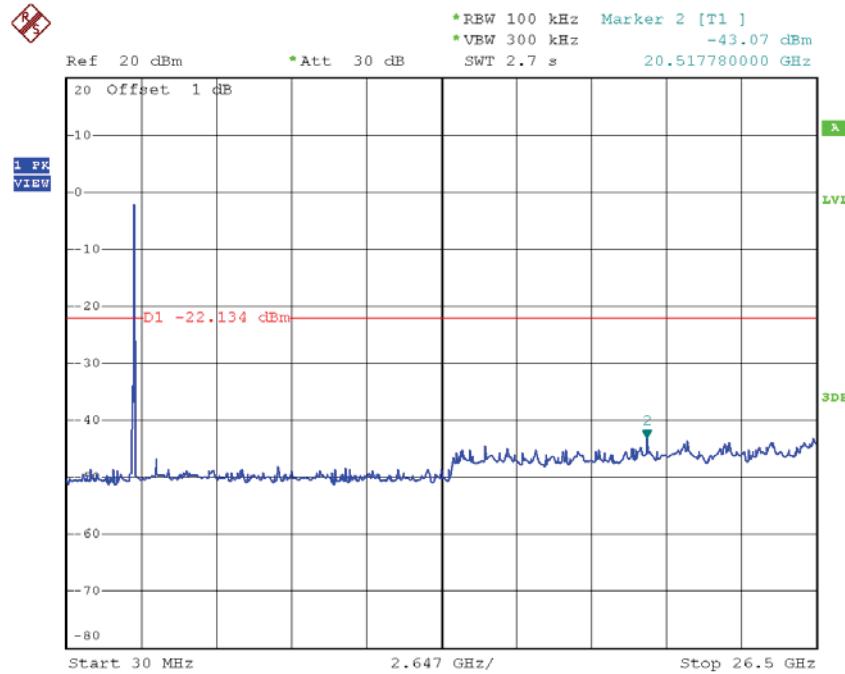
### TX HT40 mode CH09



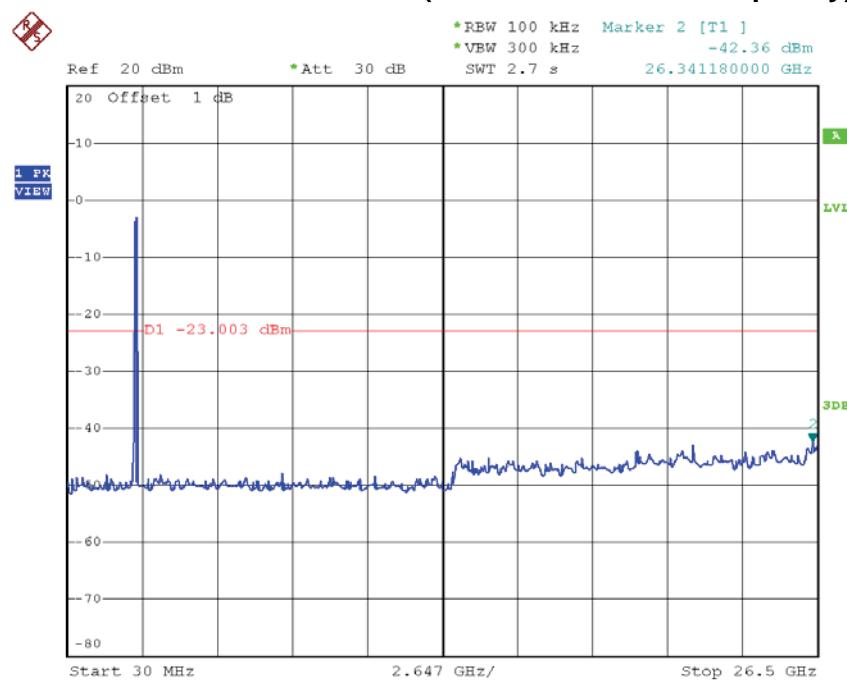
Date: 3.JUN.2016 16:46:08

**TX HT40 mode CH03 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:43:45

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

Date: 3.JUN.2016 16:45:02

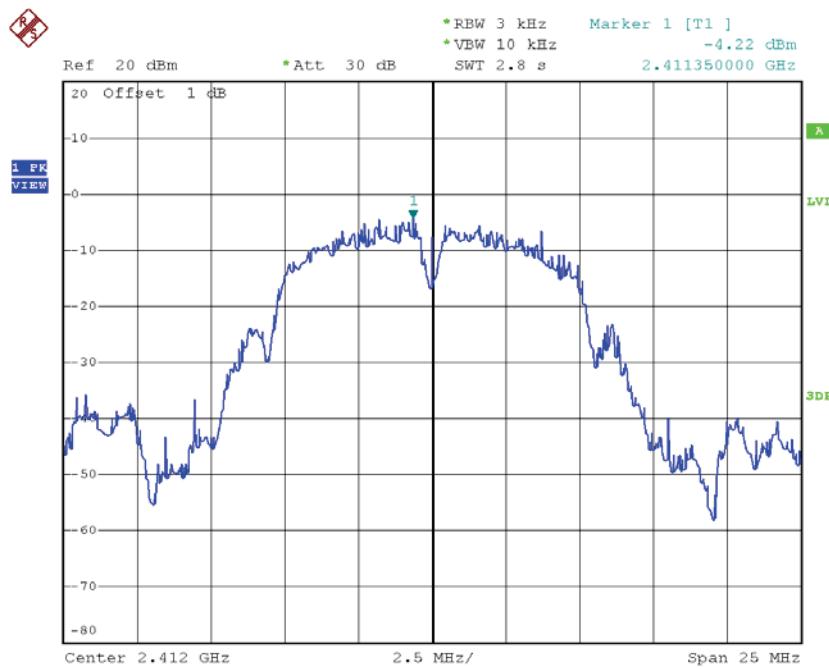
**TX HT40 mode CH09 (10 Harmonic of the frequency)**

Date: 3.JUN.2016 16:46:00

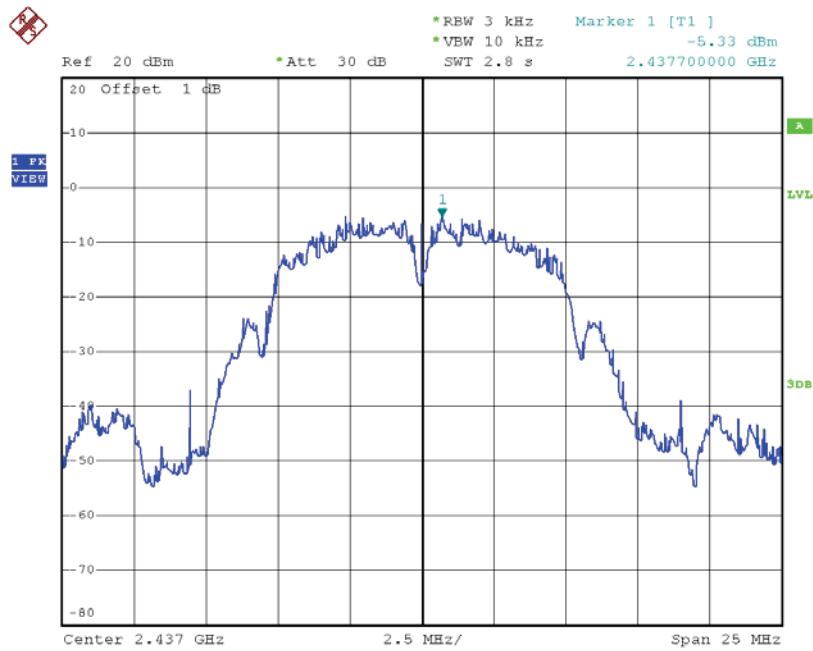
**ATTACHMENT H - POWER SPECTRAL DENSITY**

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

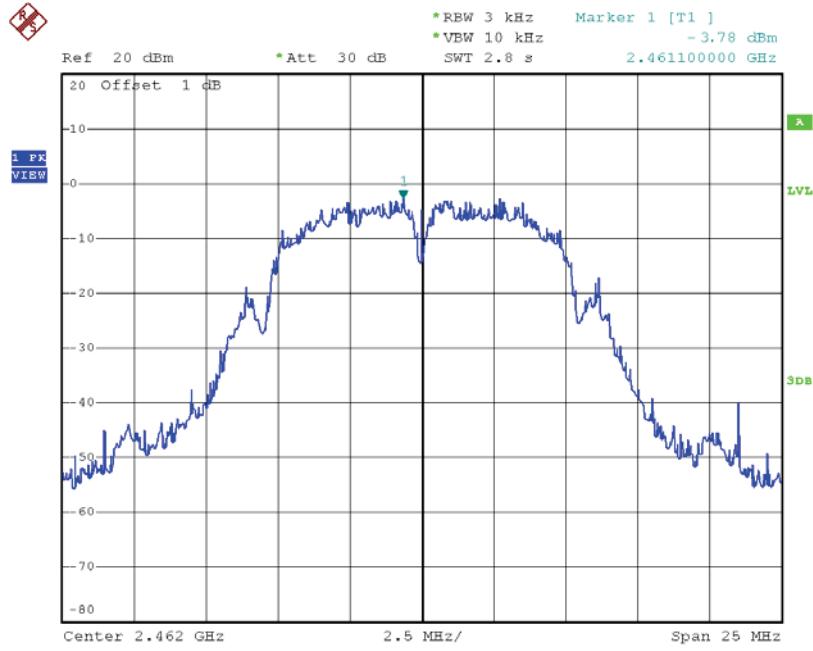
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.22	0.3784	8.00	Complies
2437	-5.33	0.2931	8.00	Complies
2462	-3.78	0.0000	8.00	Complies

**TX CH01**

Date: 3.JUN.2016 16:16:27

**TX CH06**

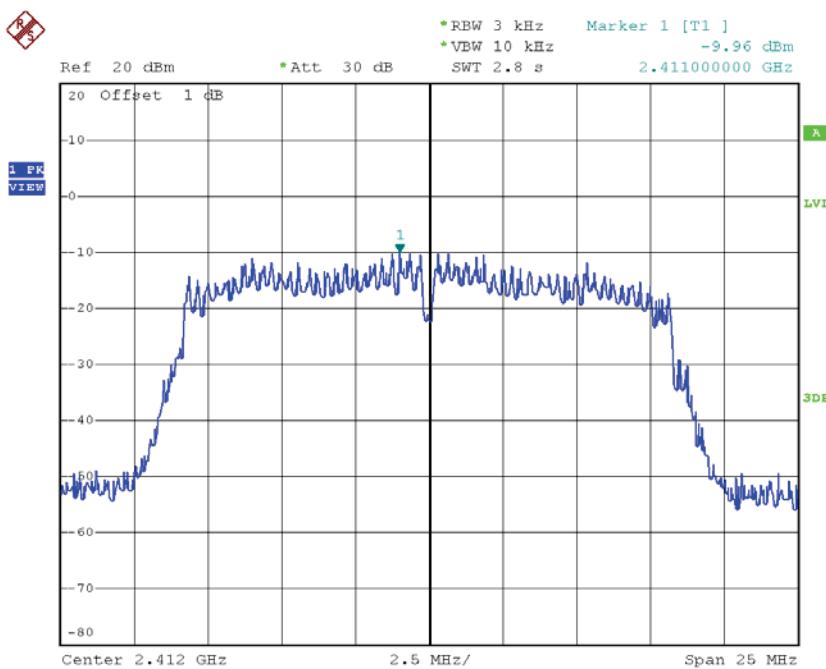
Date: 3.JUN.2016 16:17:57

**TX CH11**

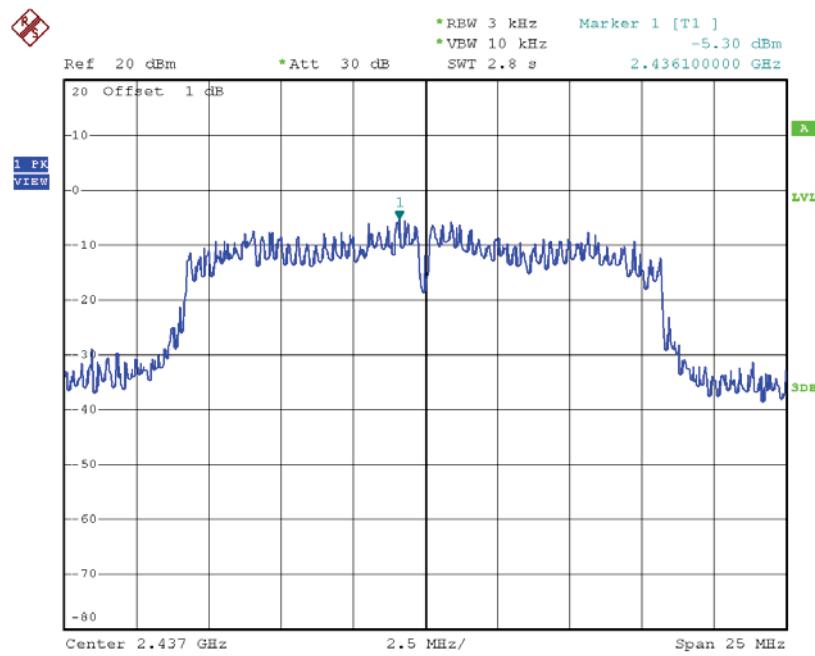
Date: 8.APR.2016 17:30:18

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

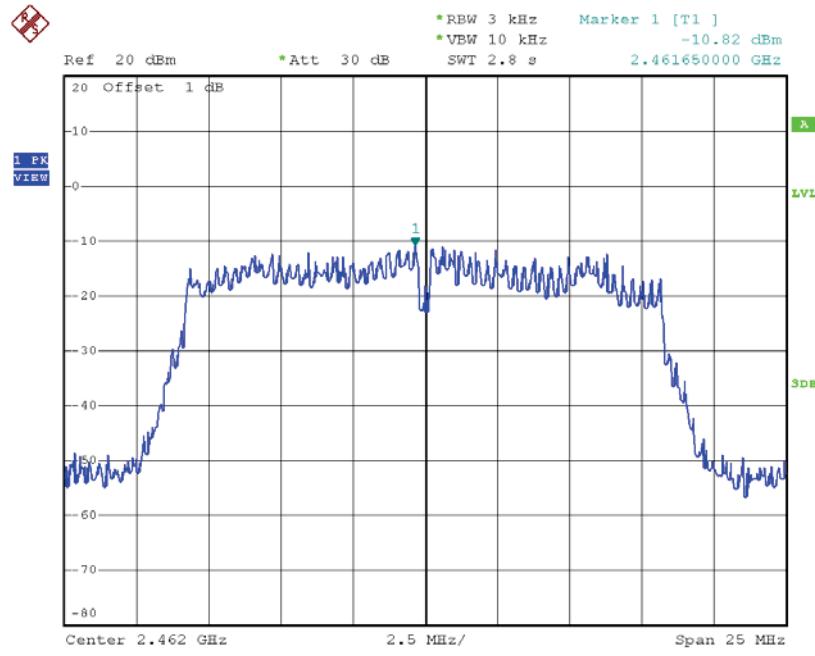
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.96	0.1009	8.00	Complies
2437	-5.30	0.2951	8.00	Complies
2462	-10.82	0.0828	8.00	Complies

**TX CH01**

Date: 3.JUN.2016 16:25:03

**TX CH06**

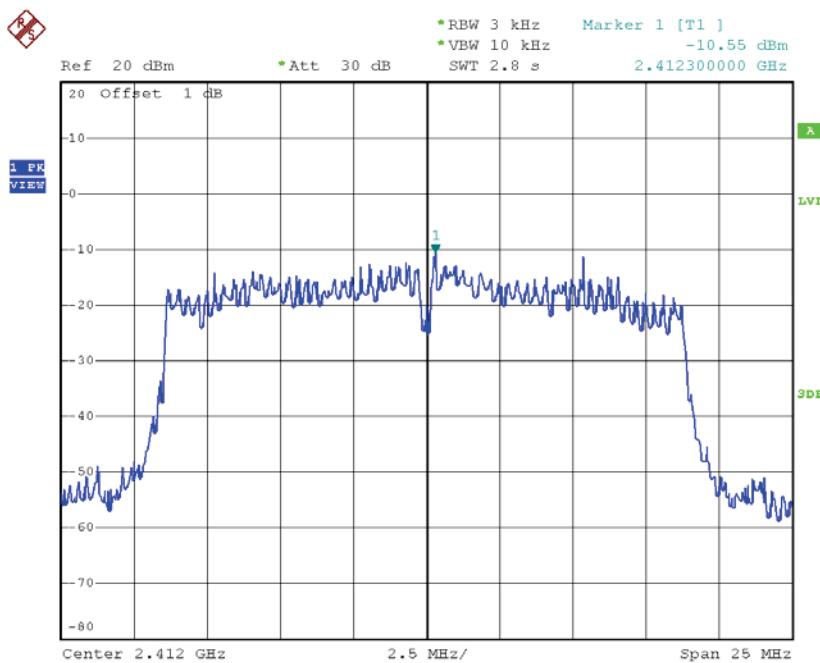
Date: 3.JUN.2016 16:26:09

**TX CH11**

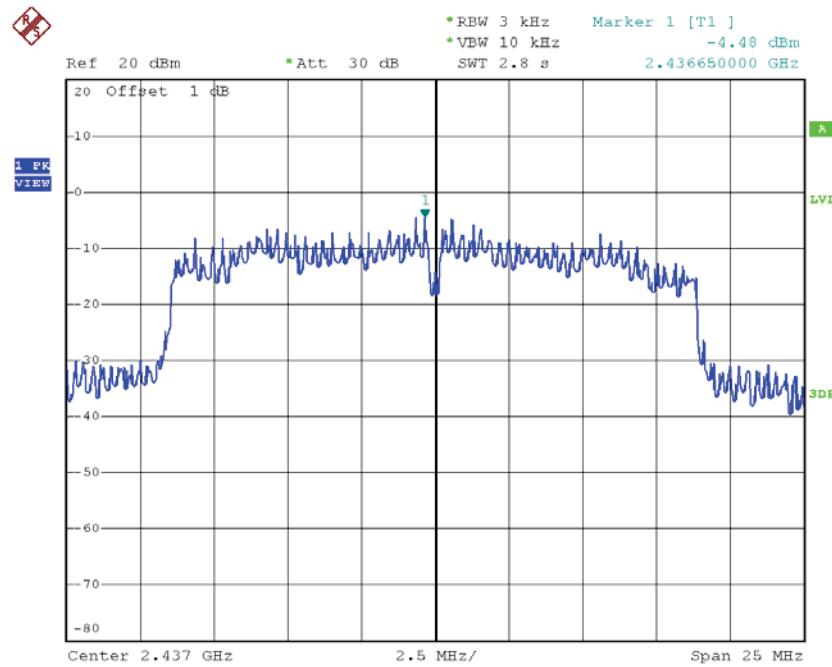
Date: 3.JUN.2016 16:27:22

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

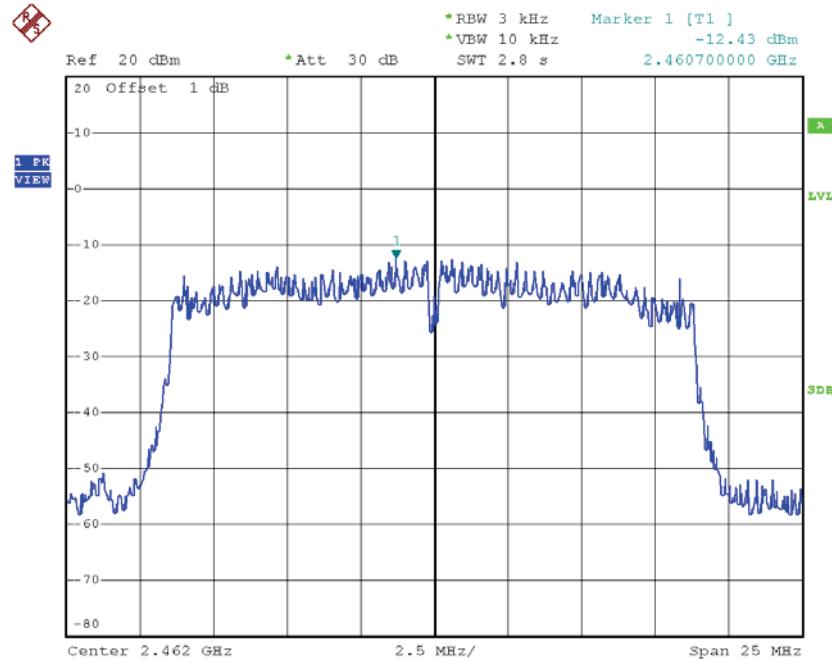
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.55	0.0881	8.00	Complies
2437	-4.48	0.3565	8.00	Complies
2462	-12.43	0.0571	8.00	Complies

**TX CH01**


Date: 3.JUN.2016 16:28:52

**TX CH06**

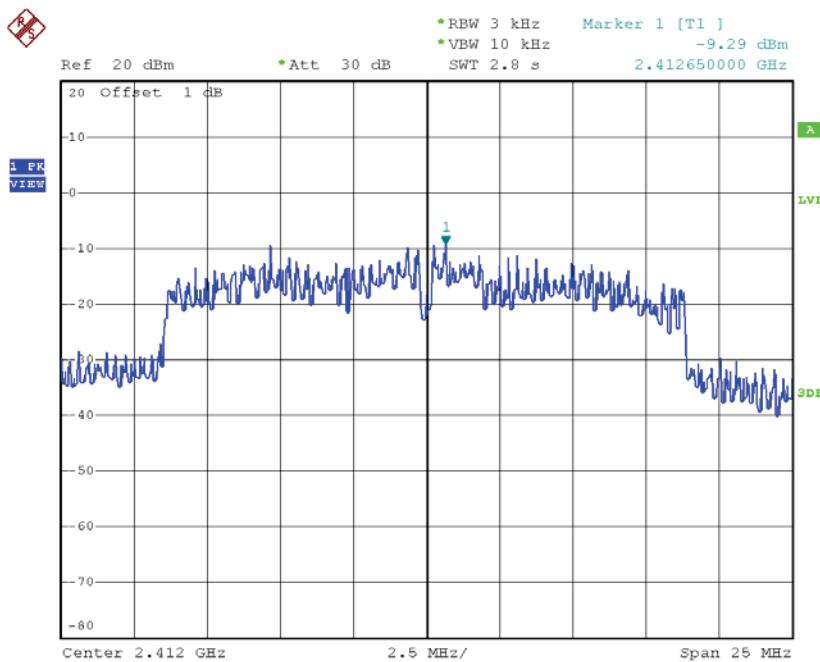
Date: 3.JUN.2016 16:29:56

**TX CH11**

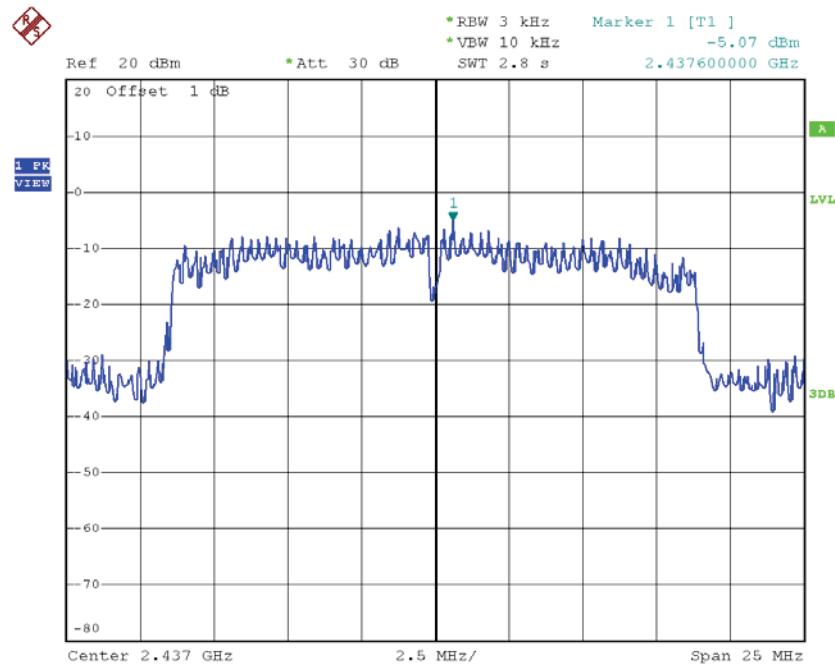
Date: 3.JUN.2016 16:31:16

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

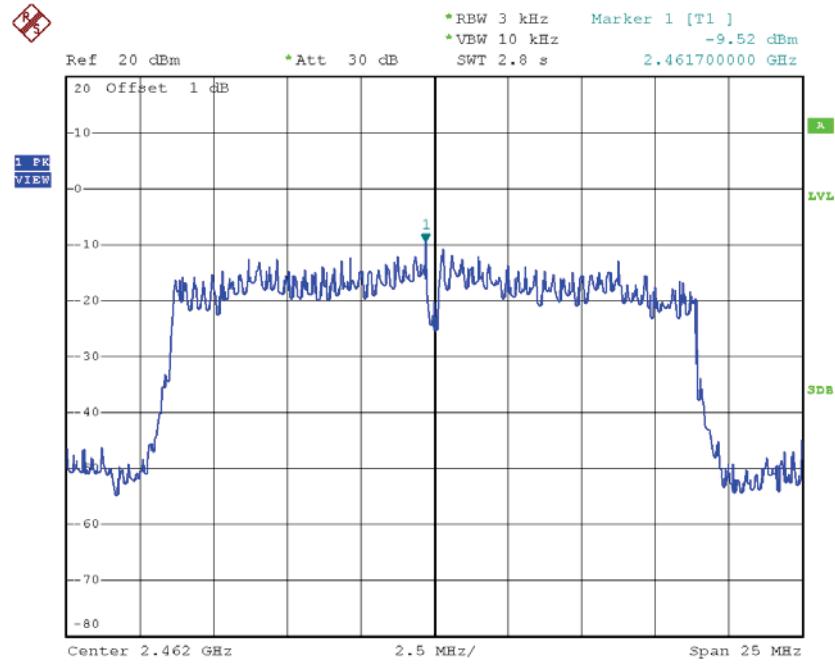
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.29	0.1178	8.00	Complies
2437	-5.07	0.3112	8.00	Complies
2462	-9.52	0.1117	8.00	Complies

**TX CH01**


Date: 3.JUN.2016 16:40:19

**TX CH06**

Date: 3.JUN.2016 16:41:25

**TX CH11**

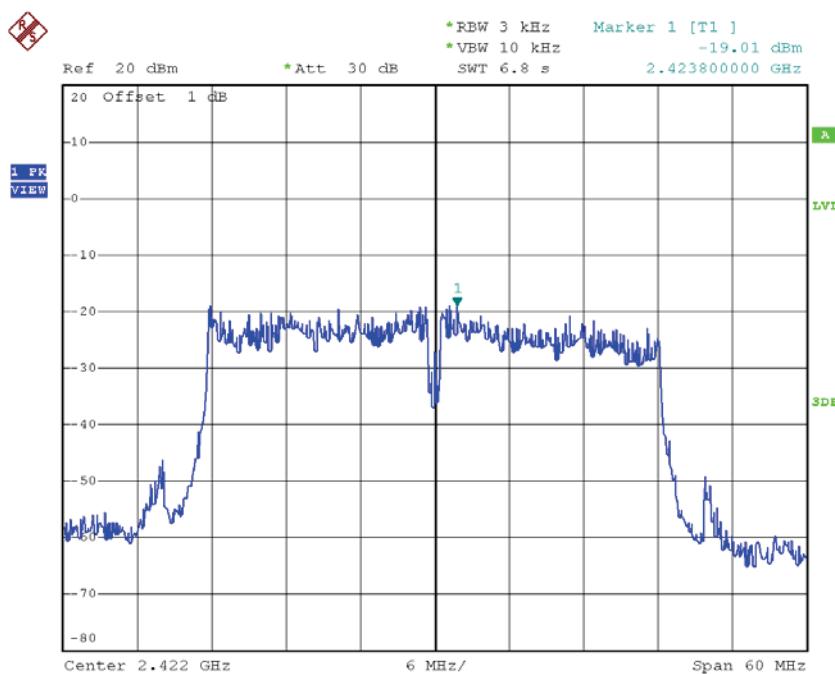
Date: 3.JUN.2016 16:42:35

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

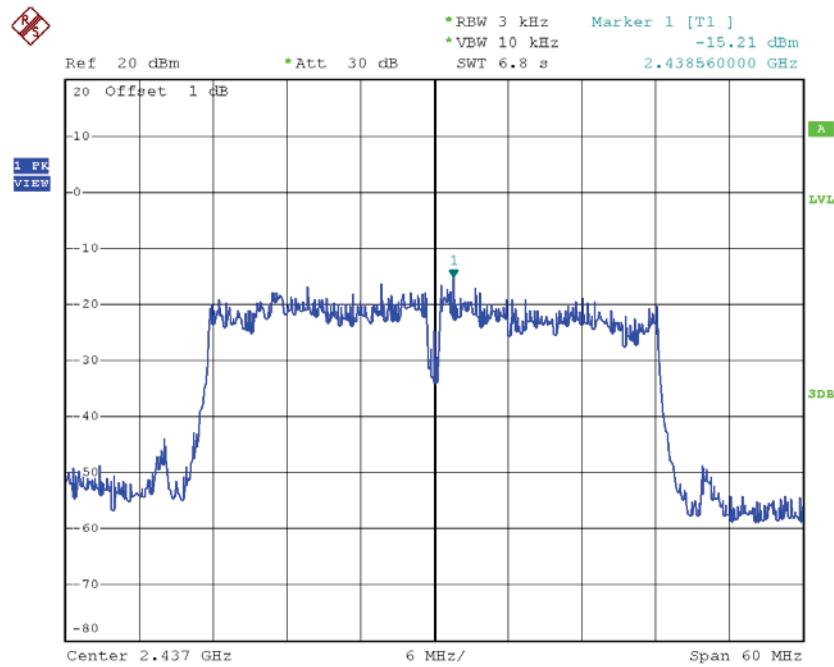
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-6.78	0.2100	8.00	Complies
2437	-1.74	0.6700	8.00	Complies
2462	-7.70	0.1700	8.00	Complies

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

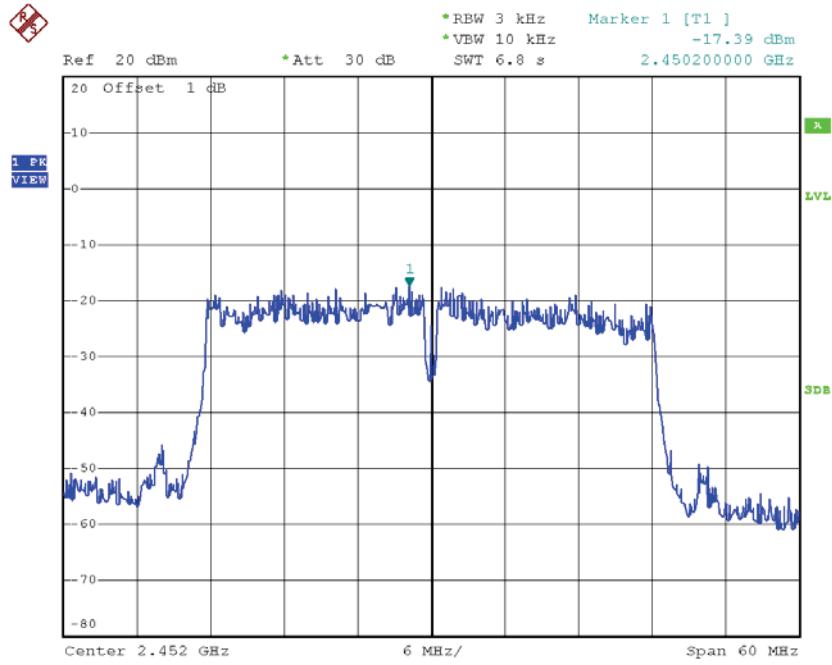
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-19.01	0.0126	8.00	Complies
2437	-15.21	0.0301	8.00	Complies
2452	-17.39	0.0182	8.00	Complies

**TX CH03**

Date: 3.JUN.2016 16:35:36

**TX CH06**

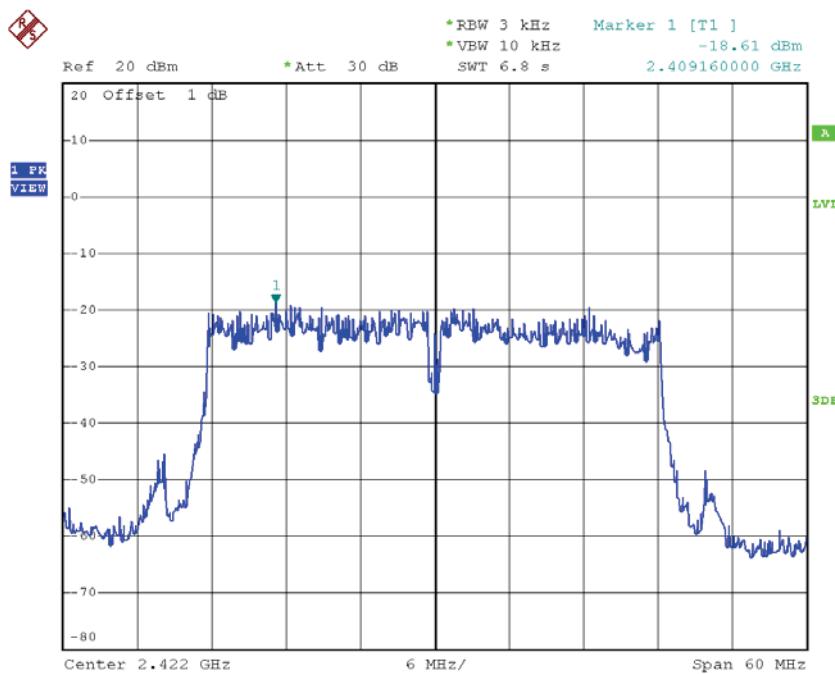
Date: 3.JUN.2016 16:36:39

**TX CH09**

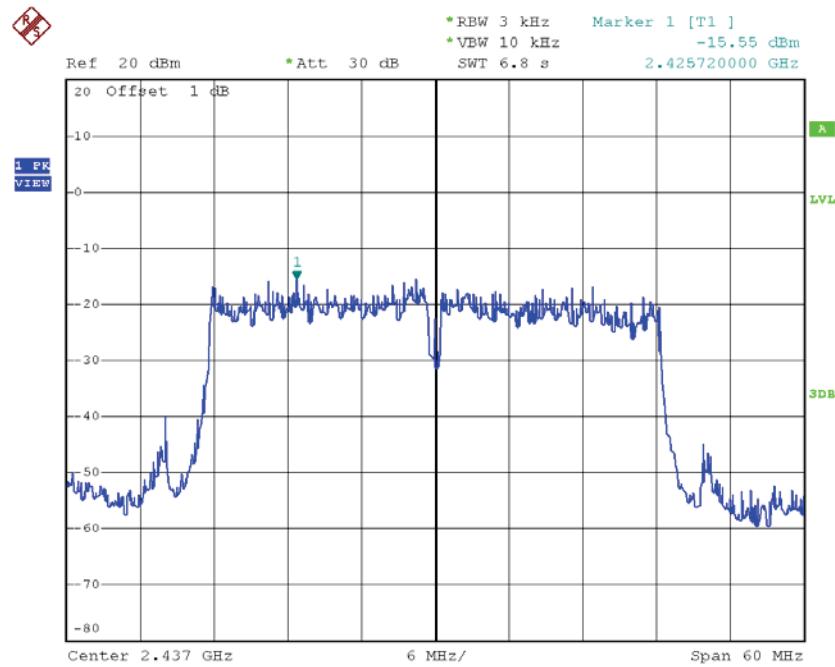
Date: 3.JUN.2016 16:37:43

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

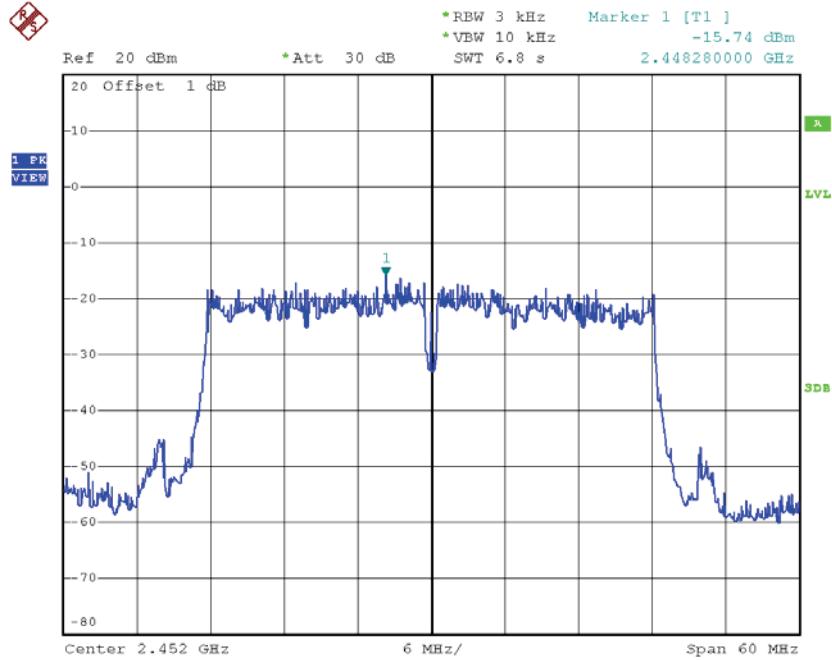
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.61	0.0138	8.00	Complies
2437	-15.55	0.0279	8.00	Complies
2452	-15.74	0.0267	8.00	Complies

**TX CH03**


Date: 3.JUN.2016 16:44:05

**TX CH06**

Date: 3.JUN.2016 16:45:14

**TX CH09**

Date: 3.JUN.2016 16:46:20

**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	-16.99	0.0200	8.00	Complies
2437	-12.22	0.0600	8.00	Complies
2452	-13.01	0.0500	8.00	Complies