

# FCC Radio Test Report

## FCC ID: X4YLNX301

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

**Project No.** : 1801C251  
**Equipment** : Lynx301 WIRELESS-N / MINI 2.0USB ADAPTER  
**Test Model** : AULUB305U4  
**Series Model** : N/A  
**Applicant** : NEXXT SOLUTIONS  
**Address** : 3505 N.W 107TH AVE. MIAMI FLORIDA 33178 U.S.A

**Date of Receipt** : Jan. 30, 2018  
**Date of Test** : Feb. 01, 2018 ~ Feb. 09, 2018  
**Issued Date** : Mar. 14, 2018  
**Tested by** : BTL Inc.

**Testing Engineer** : Chay cai  
(Chay Cai)

**Technical Manager** : Shawn xiao  
(Shawn Xiao)

**Authorized Signatory** : David Mao  
(David Mao)

## 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 manufacturer'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>10</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 (30MHZ TO 1000MHZ)</b>	<b>20</b>
<b>4.2.9 TEST RESULTS (ABOVE 1000MHZ)</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**

	<b>Page</b>
<b>6.1 APPLIED PROCEDURES / LIMIT</b>	<b>22</b>
<b>6.1.1 TEST PROCEDURE</b>	22
<b>6.1.2 DEVIATION FROM STANDARD</b>	22
<b>6.1.3 TEST SETUP</b>	22
<b>6.1.4 EUT OPERATION CONDITIONS</b>	22
<b>6.1.5 EUT TEST CONDITIONS</b>	22
<b>6.1.6 TEST RESULTS</b>	22
<b>7 . ANTENNA CONDUCTED SPURIOUS EMISSION</b>	<b>23</b>
<b>7.1 APPLIED PROCEDURES / LIMIT</b>	23
<b>7.1.1 TEST PROCEDURE</b>	23
<b>7.1.2 DEVIATION FROM STANDARD</b>	23
<b>7.1.3 TEST SETUP</b>	23
<b>7.1.4 EUT OPERATION CONDITIONS</b>	23
<b>7.1.5 EUT TEST CONDITIONS</b>	23
<b>7.1.6 TEST RESULTS</b>	23
<b>8 . POWER SPECTRAL DENSITY TEST</b>	<b>24</b>
<b>8.1 APPLIED PROCEDURES / LIMIT</b>	24
<b>8.1.1 TEST PROCEDURE</b>	24
<b>8.1.2 DEVIATION FROM STANDARD</b>	24
<b>8.1.3 TEST SETUP</b>	24
<b>8.1.4 EUT OPERATION CONDITIONS</b>	24
<b>8.1.5 EUT TEST CONDITIONS</b>	24
<b>8.1.6 TEST RESULTS</b>	24
<b>9 . MEASUREMENT INSTRUMENTS LIST</b>	<b>25</b>
<b>10 . EUT TEST PHOTO</b>	<b>27</b>
<b>APPENDIX A - CONDUCTED EMISSION</b>	<b>31</b>
<b>APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)</b>	<b>34</b>
<b>APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)</b>	<b>39</b>
<b>APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)</b>	<b>46</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>95</b>
<b>APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER</b>	<b>104</b>
<b>APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION</b>	<b>108</b>
<b>APPENDIX H - POWER SPECTRAL DENSITY</b>	<b>145</b>

**REPORT ISSUED HISTORY**

Issued No.	Version	Description	Issued Date
BTL-FCCP-1-1801C251	Rev.01	Original Issue.	Mar. 01, 2018
BTL-FCCP-1-1801C251	Rev.02	Delete the maximum peak conducted the output power of AVG data	Mar. 14, 2018

## 1. CERTIFICATION

Equipment : Lynx301 WIRELESS-N / MINI 2.0USB ADAPTER  
Brand Name : NEXXT  
Test Model : AULUB305U4  
Series Model : N/A  
Applicant : NEXXT SOLUTIONS  
Manufacturer : NEXXT SOLUTIONS  
Address : 3505 N.W 107TH AVE. MIAMI FLORIDA 33178 U.S.A  
Date of Test : Feb. 01, 2018 ~ Feb. 09, 2018  
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-1-1801C251) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

**NOTE:**

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

## 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor)  $k=1.96$  or  $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2\times U_c(y)$ .

The BTL measurement uncertainty as below table:

### 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	Lynx301 WIRELESS-N / MINI 2.0USB ADAPTER				
Brand Name	NEXXT				
Test Model	AULUB305U4				
Series Model	N/A				
Model Difference	N/A				
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			
	Peak Output Power (Max.)	802.11b: 11.77dBm 802.11g: 19.89dBm 802.11n(20MHz): 18.92dBm 802.11n(40MHz): 18.46dBm			
Power Source	DC voltage supplied from PC USB port.				
Power Rating	DC 5V				

### Note:

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

2. Channel List:

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

3. Table for Filed Antenna:

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

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

4. The worst case for 1TX/ 2TX as follow:

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:

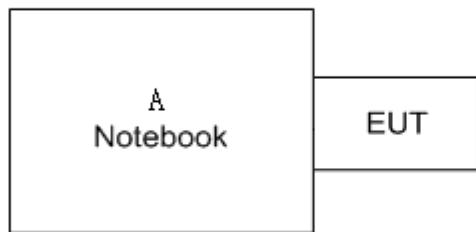
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (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	MP-Tool		
Frequency (MHz)	2412	2437	2462
802.11b	19	18	17
802.11g	27	27	27
802.11n (20MHz)	23/25	22/24	21/22
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	24/25	24/26	24/25

### 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	Lenovo	DCSM	DOC	EB22953770

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

## 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 -5.00	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " \* " decreases with the logarithm of the frequency
- (2) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

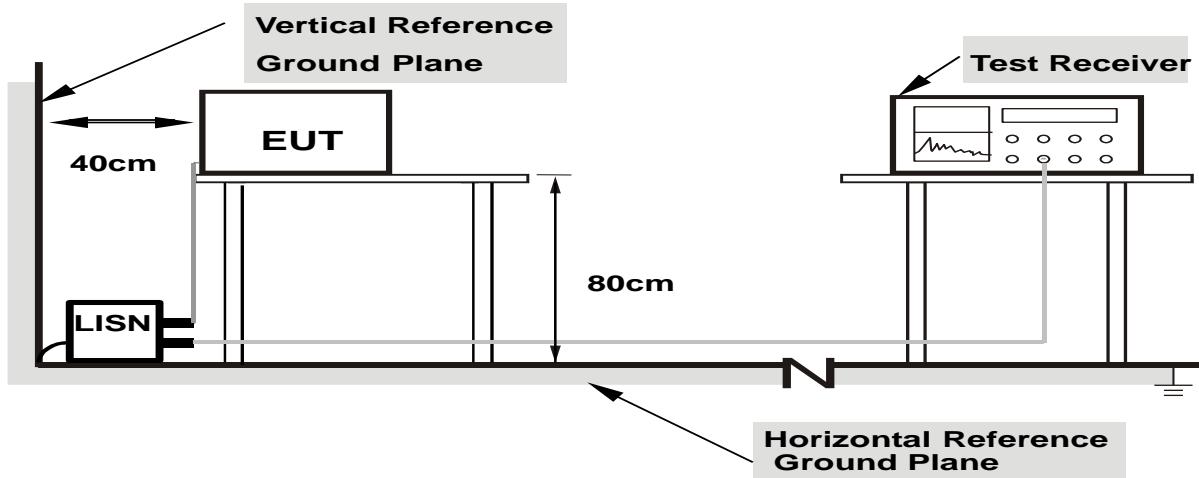
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### **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 Appendix 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

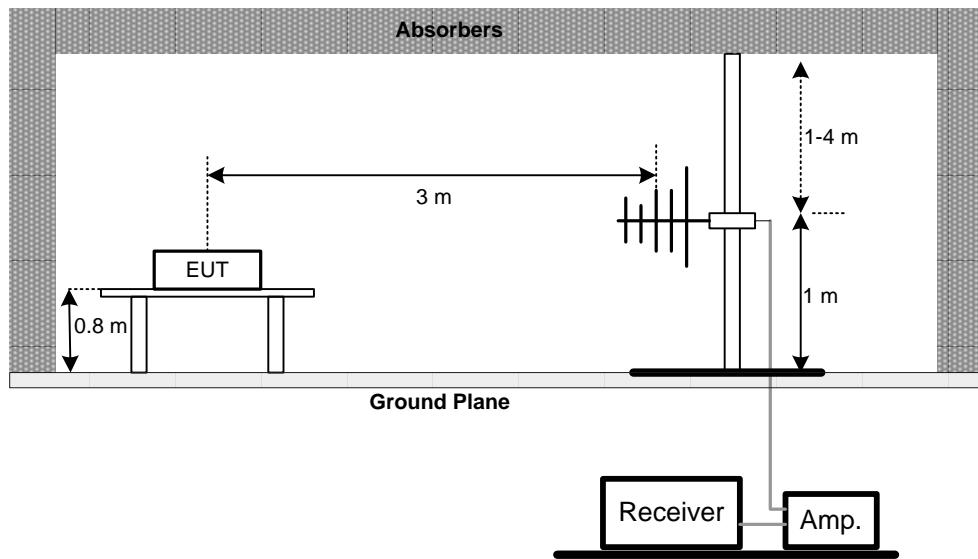
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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).
- 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.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

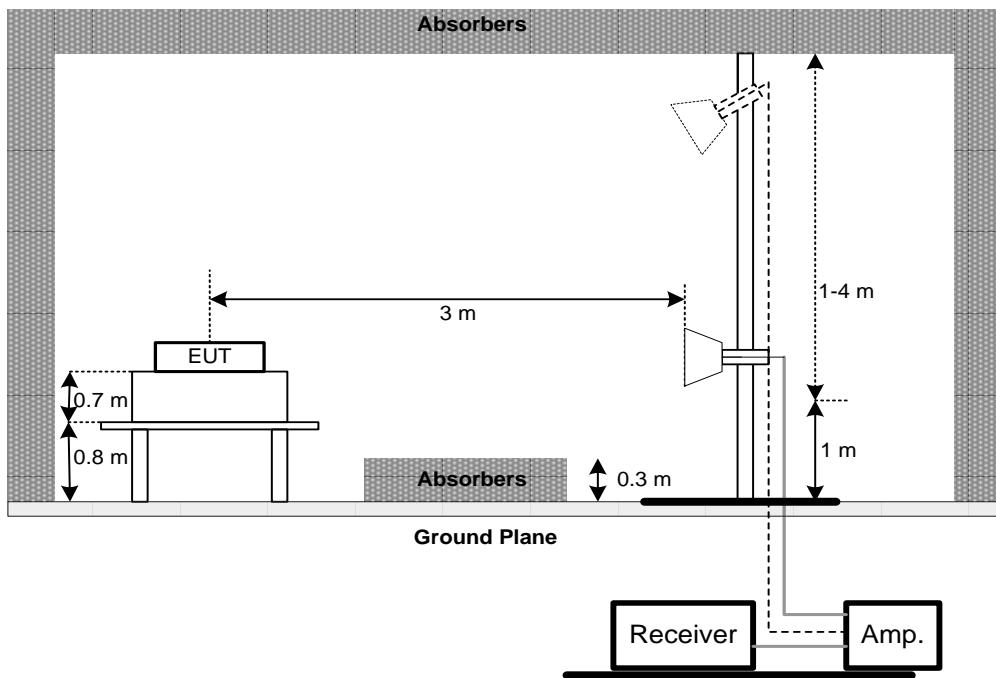
No deviation

#### **4.2.4 TEST SETUP**

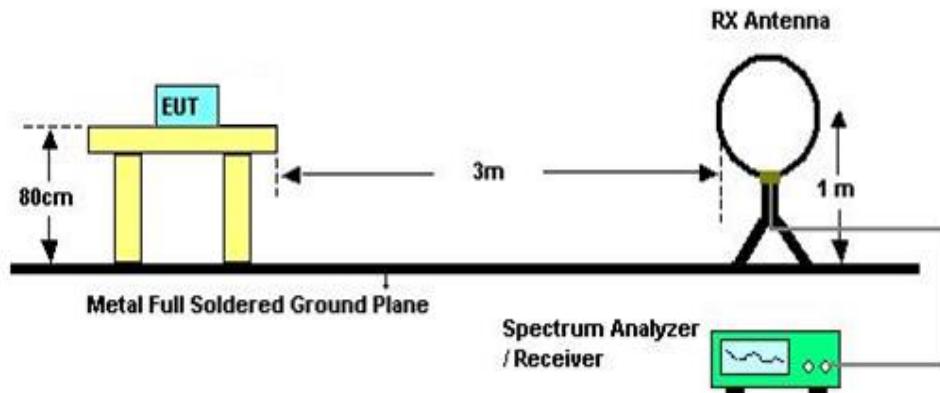
#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: DC 5V

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

Please refer to the Appendix B

Remark:

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

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

Please refer to the Appendix C.

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

Please refer to the Appendix D.

Remark:

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

## 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

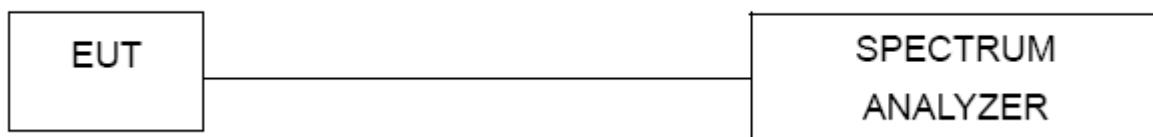
#### 5.1.1 TEST PROCEDURE

- 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



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Appendix E.

## **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 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

### **6.1.2 DEVIATION FROM STANDARD**

No deviation.

### **6.1.3 TEST SETUP**



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

The EUT was programmed to be in continuously transmitting mode.

### **6.1.5 EUT TEST CONDITIONS**

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

## 6.1.6 TEST RESULTS

Please refer to the Appendix F.

## 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: DC 5V

#### 7.1.6 TEST RESULTS

Please refer to the Appendix 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

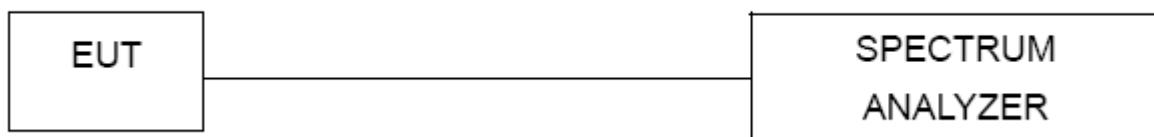
### **8.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as shown 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: DC 5V

### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 26, 2018
2	LISN	R&S	ENV216	101447	Mar. 26, 2018
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 09, 2018
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 26, 2018
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

<b>Radiated Emission Above 1GHz</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018
7	Controller	CT	SC100	N/A	N/A
8	Controller	MF	MF-7802	MF780208416	N/A
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

<b>Peak Output Power</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Aug. 20, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Aug. 20, 2018

<b>Antenna Conducted Spurious Emission</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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

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

All calibration period of equipment list is one year.

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

**Radiated Measurement Photos****9KHz to 30MHz**

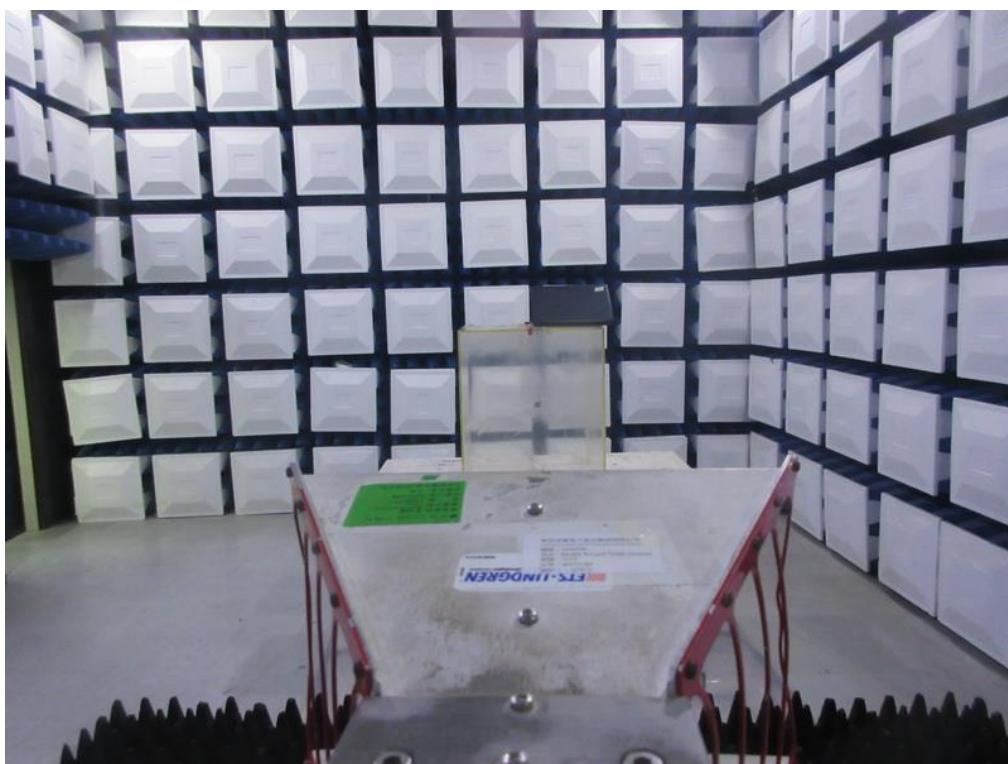
### Radiated Measurement Photos

30MHz to 1000MHz



### Radiated Measurement Photos

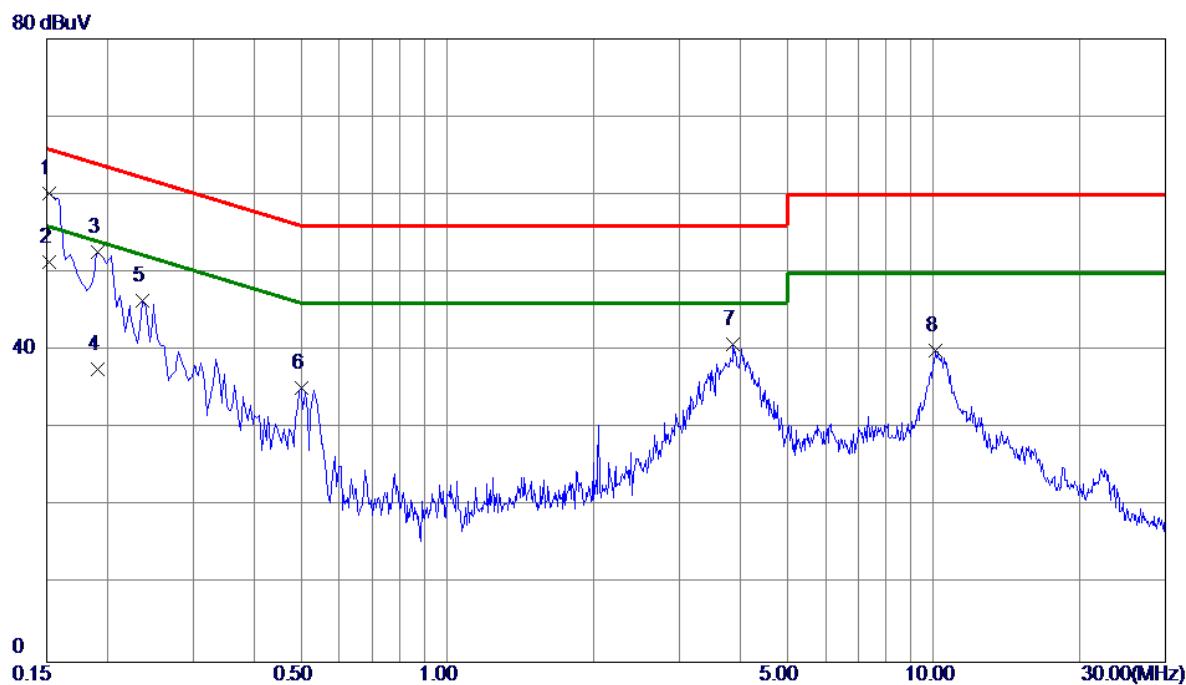
Above 1000MHz



## APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

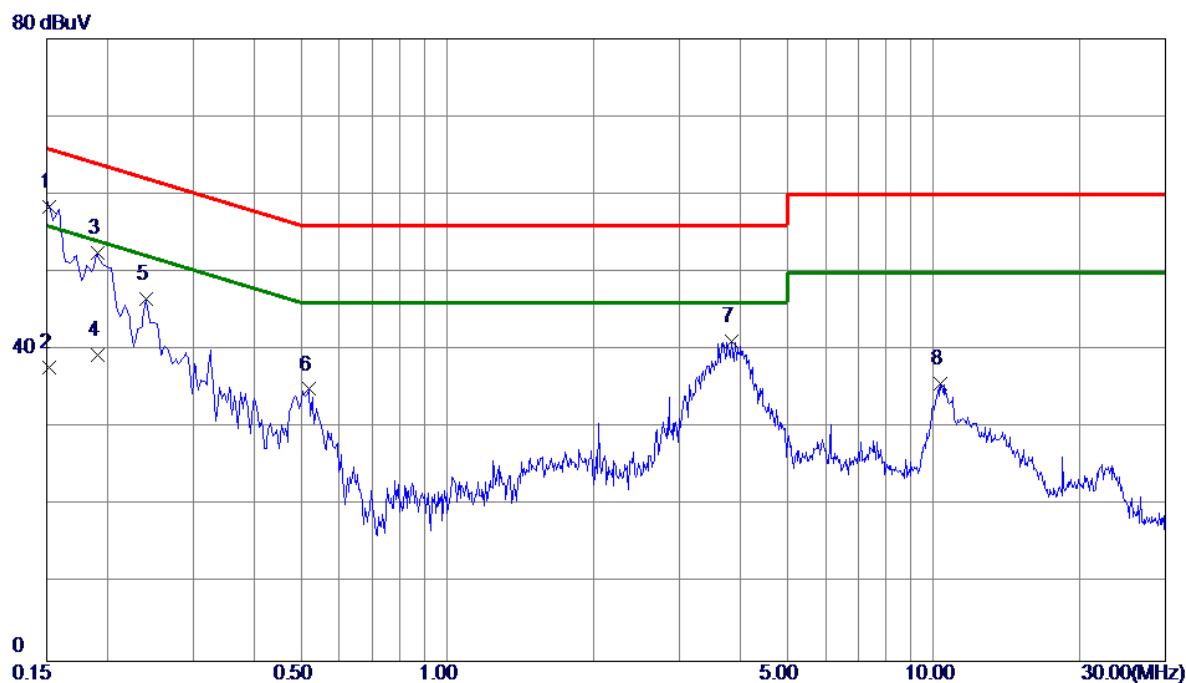
## Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1515	50.39	9.79	60.18	65.92	-5.74	Peak	
2 *	0.1515	41.50	9.79	51.29	55.92	-4.63	AVG	
3	0.1905	42.87	9.77	52.64	64.01	-11.37	Peak	
4	0.1905	27.90	9.77	37.67	54.01	-16.34	AVG	
5	0.2355	36.69	9.76	46.45	62.25	-15.80	Peak	
6	0.5010	25.36	9.80	35.16	56.00	-20.84	Peak	
7	3.8670	30.74	10.02	40.76	56.00	-15.24	Peak	
8	10.0770	29.67	10.32	39.99	60.00	-20.01	Peak	

Test Mode : Normal Link

## Neutral

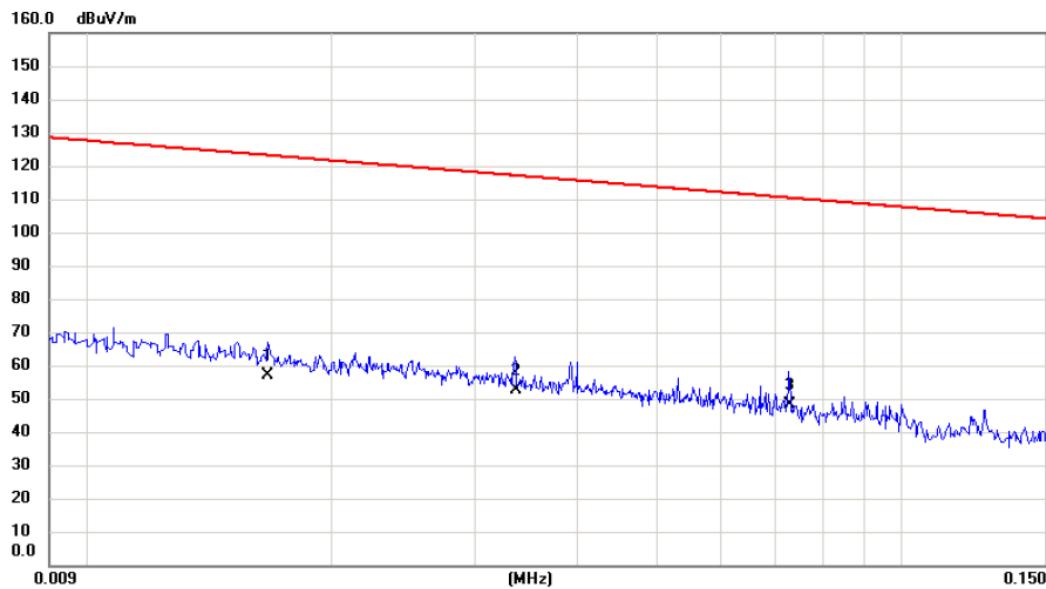


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1515	48.73	9.68	58.41	65.92	-7.51	Peak	
2	0.1515	28.10	9.68	37.78	55.92	-18.14	Avg	
3	0.1905	42.82	9.69	52.51	64.01	-11.50	Peak	
4	0.1905	29.60	9.69	39.29	54.01	-14.72	Avg	
5	0.2400	36.94	9.68	46.62	62.10	-15.48	Peak	
6	0.5190	25.26	9.70	34.96	56.00	-21.04	Peak	
7	3.8490	31.25	9.94	41.19	56.00	-14.81	Peak	
8	10.3470	25.42	10.29	35.71	60.00	-24.29	Peak	

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

Test Mode: TX B MODE CHANNEL 01

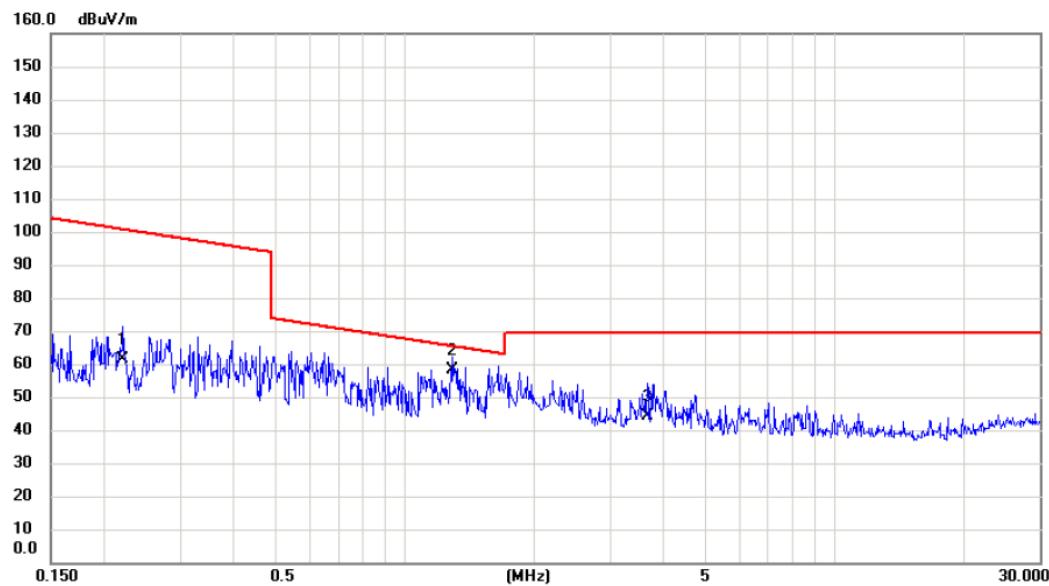
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		0.0167	36.83	20.05	56.88	123.15	-66.27	AVG
2		0.0336	33.27	19.21	52.48	117.08	-64.60	AVG
3	*	0.0728	30.01	18.27	48.28	110.36	-62.08	AVG

Test Mode: TX B MODE CHANNEL 01

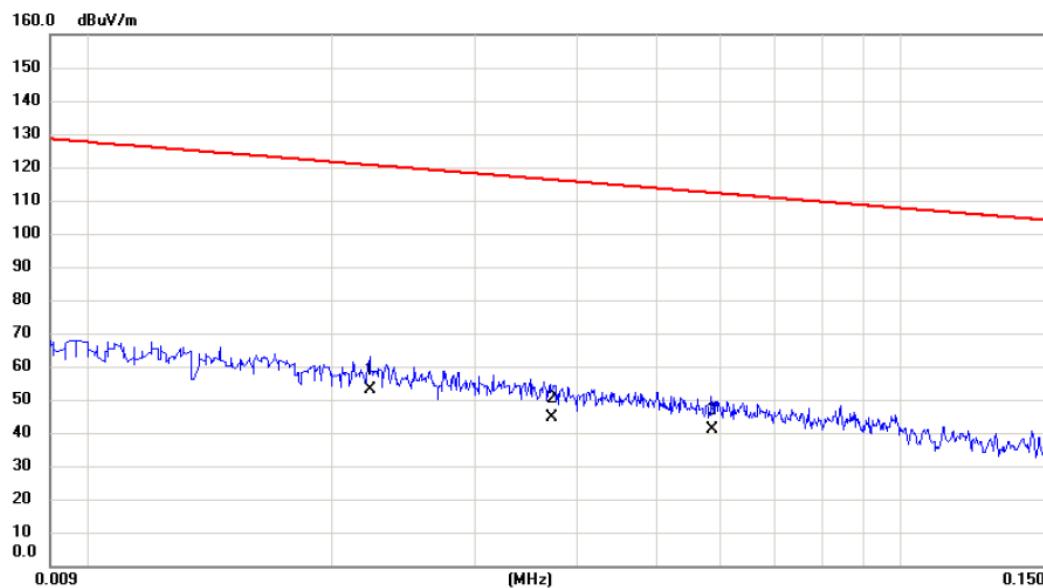
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1		0.2208	44.78	16.74	61.52	100.73	-39.21	AVG	
2	*	1.2892	42.34	15.78	58.12	65.40	-7.28	QP	
3		3.6611	29.13	15.04	44.17	69.54	-25.37	QP	

Test Mode: TX B MODE CHANNEL 01

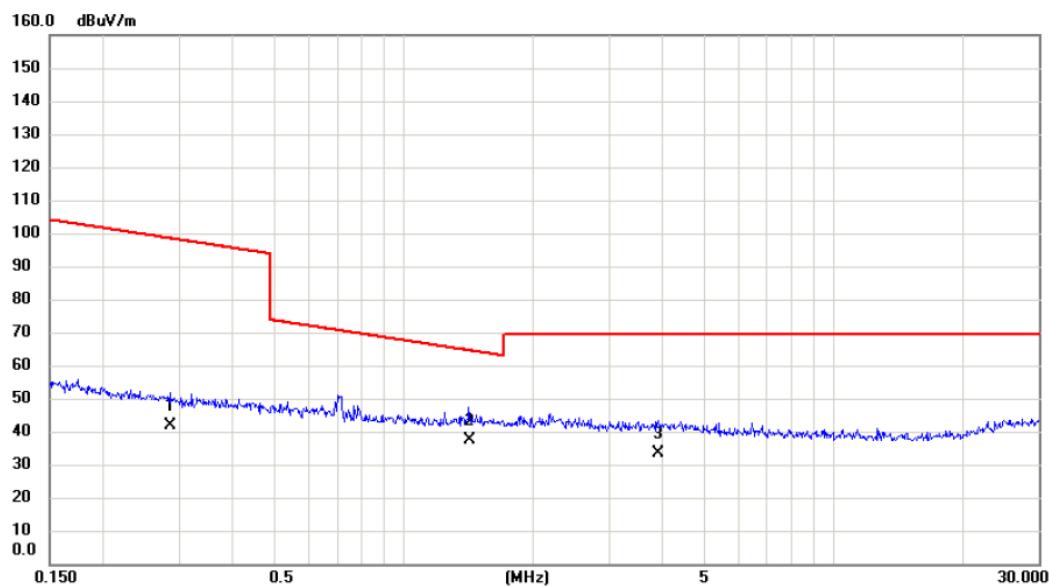
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1	*	0.0223	33.34	19.55	52.89	120.64	-67.75	AVG	
2		0.0372	25.37	19.10	44.47	116.19	-71.72	AVG	
3		0.0586	22.40	18.56	40.96	112.25	-71.29	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

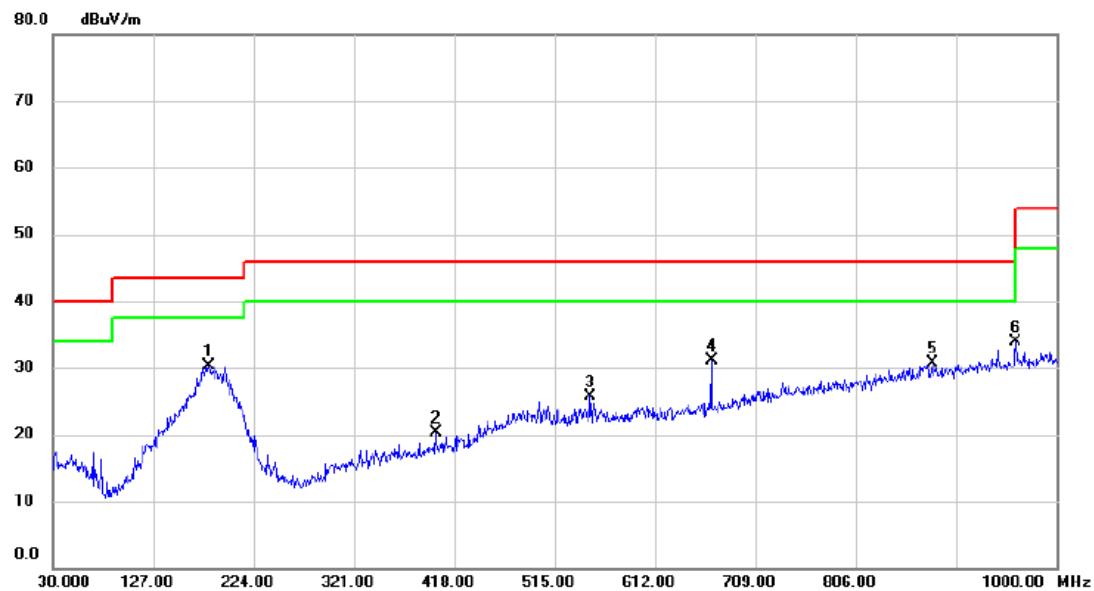


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.2863	25.06	16.63	41.69	98.47	-56.78	AVG	
2	*	1.4182	21.77	15.73	37.50	64.57	-27.07	QP	
3		3.9014	18.30	14.98	33.28	69.54	-36.26	QP	

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

Test Mode: TX B MODE CHANNEL 01

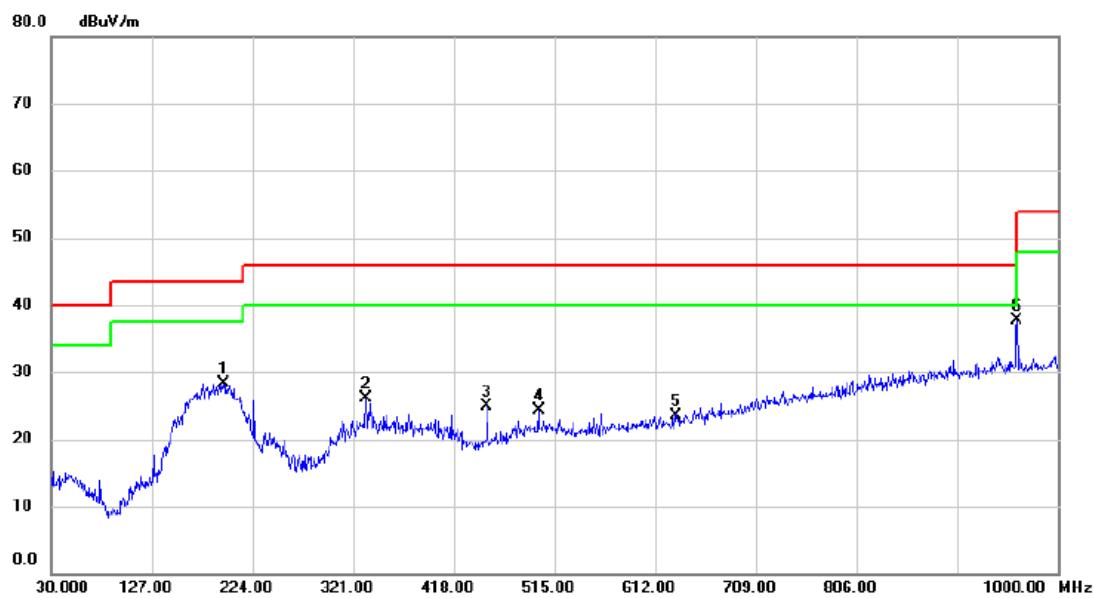
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1 *		180.350	42.37	-12.07	30.30	43.50	-13.20	peak	
2		400.055	31.60	-11.36	20.24	46.00	-25.76	peak	
3		549.920	33.39	-7.71	25.68	46.00	-20.32	peak	
4		666.805	36.04	-4.96	31.08	46.00	-14.92	peak	
5		879.720	30.18	0.61	30.79	46.00	-15.21	peak	
6		960.230	31.79	2.19	33.98	54.00	-20.02	peak	

Test Mode: TX B MODE CHANNEL 01

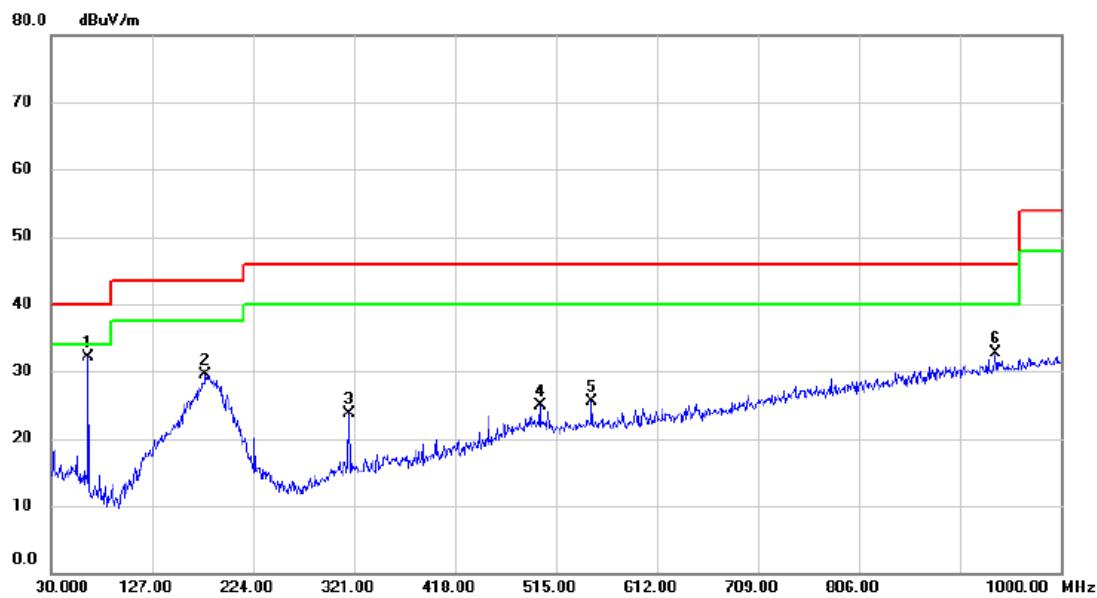
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	*	195.870	41.75	-13.38	28.37	43.50	-15.13	peak
2		332.640	38.27	-12.26	26.01	46.00	-19.99	peak
3		450.010	34.86	-9.94	24.92	46.00	-21.08	peak
4		499.965	33.06	-8.72	24.34	46.00	-21.66	peak
5		631.400	29.32	-5.83	23.49	46.00	-22.51	peak
6		960.230	35.54	2.19	37.73	54.00	-16.27	peak

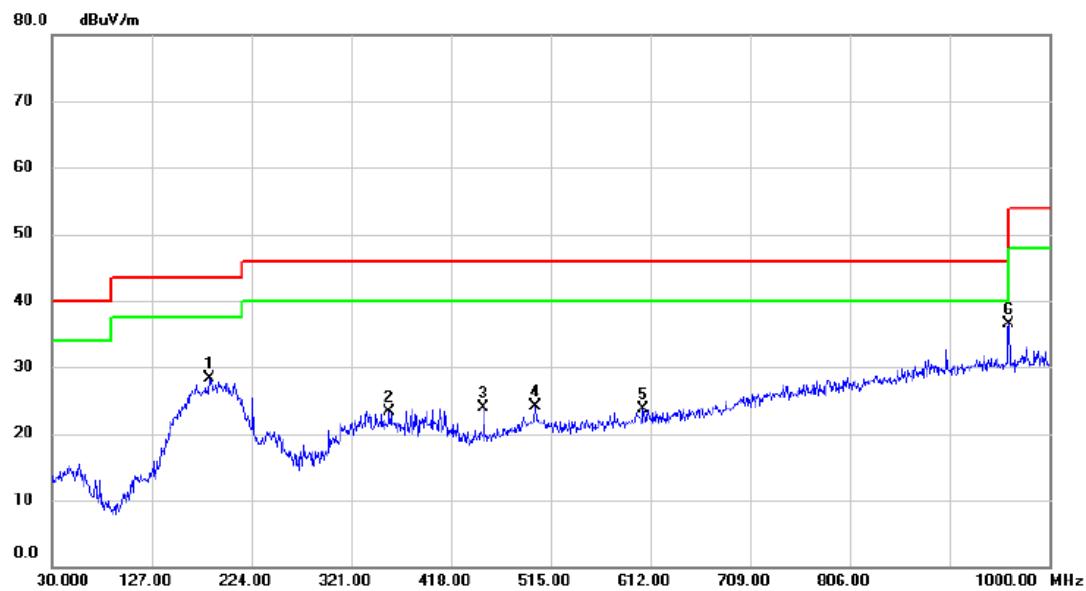
Test Mode: TX B MODE CHANNEL 06

## Vertical



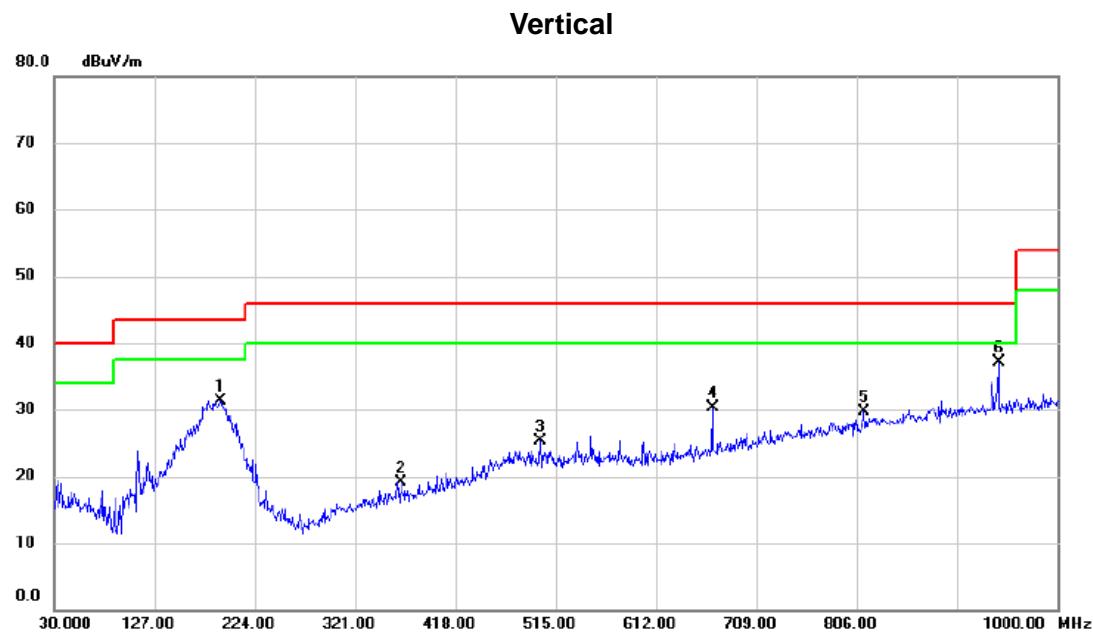
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1 *		65.890	47.42	-15.40	32.02	40.00	-7.98	peak
2		178.410	41.52	-12.08	29.44	43.50	-14.06	peak
3		316.150	36.32	-12.55	23.77	46.00	-22.23	peak
4		499.965	33.56	-8.72	24.84	46.00	-21.16	peak
5		549.920	33.21	-7.71	25.50	46.00	-20.50	peak
6		936.950	30.98	1.74	32.72	46.00	-13.28	peak

Test Mode: TX B MODE CHANNEL 06

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *		183.260	40.56	-12.30	28.26	43.50	-15.24	peak	
2		358.345	35.13	-11.85	23.28	46.00	-22.72	peak	
3		450.010	33.86	-9.94	23.92	46.00	-22.08	peak	
4		499.965	32.82	-8.72	24.10	46.00	-21.90	peak	
5		605.210	30.09	-6.33	23.76	46.00	-22.24	peak	
6		960.230	34.34	2.19	36.53	54.00	-17.47	peak	

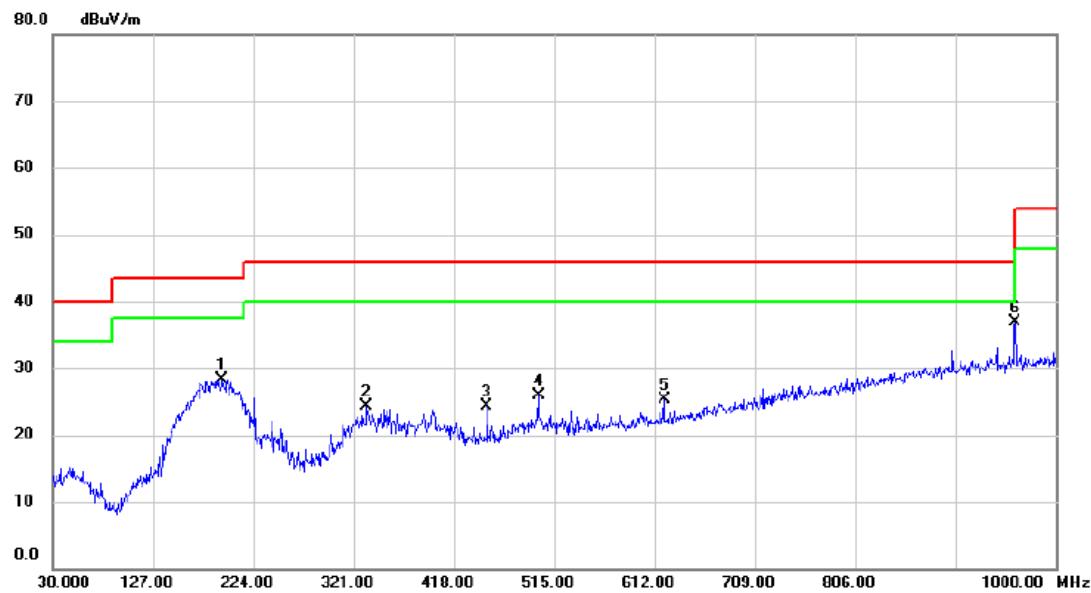
Test Mode: TX B MODE CHANNEL 11



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1		191.505	44.37	-12.98	31.39	43.50	-12.11	peak	
2		365.135	30.92	-11.78	19.14	46.00	-26.86	peak	
3		499.965	34.09	-8.72	25.37	46.00	-20.63	peak	
4		666.805	35.32	-4.96	30.36	46.00	-15.64	peak	
5		813.275	30.71	-1.00	29.71	46.00	-16.29	peak	
6 *		943.255	35.32	1.87	37.19	46.00	-8.81	peak	

Test Mode: TX B MODE CHANNEL 11

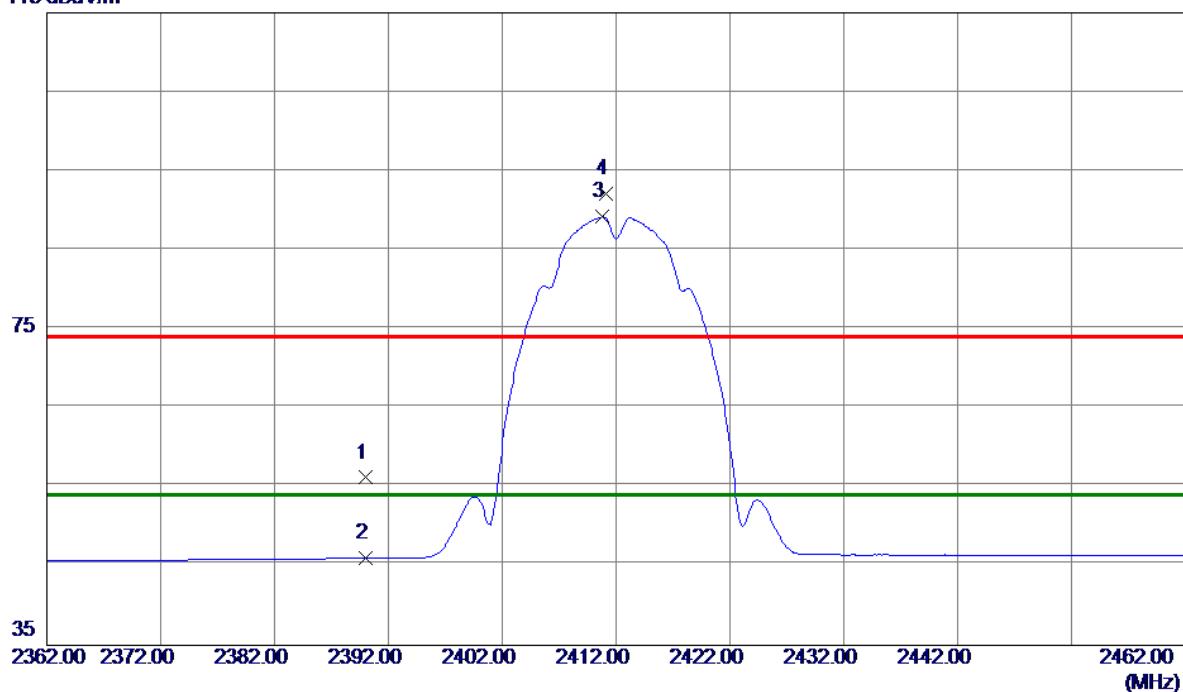
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1 *		193.930	41.52	-13.19	28.33	43.50	-15.17	peak
2		333.610	36.49	-12.24	24.25	46.00	-21.75	peak
3		450.010	34.16	-9.94	24.22	46.00	-21.78	peak
4		499.965	34.56	-8.72	25.84	46.00	-20.16	peak
5		621.215	31.40	-6.01	25.39	46.00	-20.61	peak
6		960.230	34.77	2.19	36.96	54.00	-17.04	peak

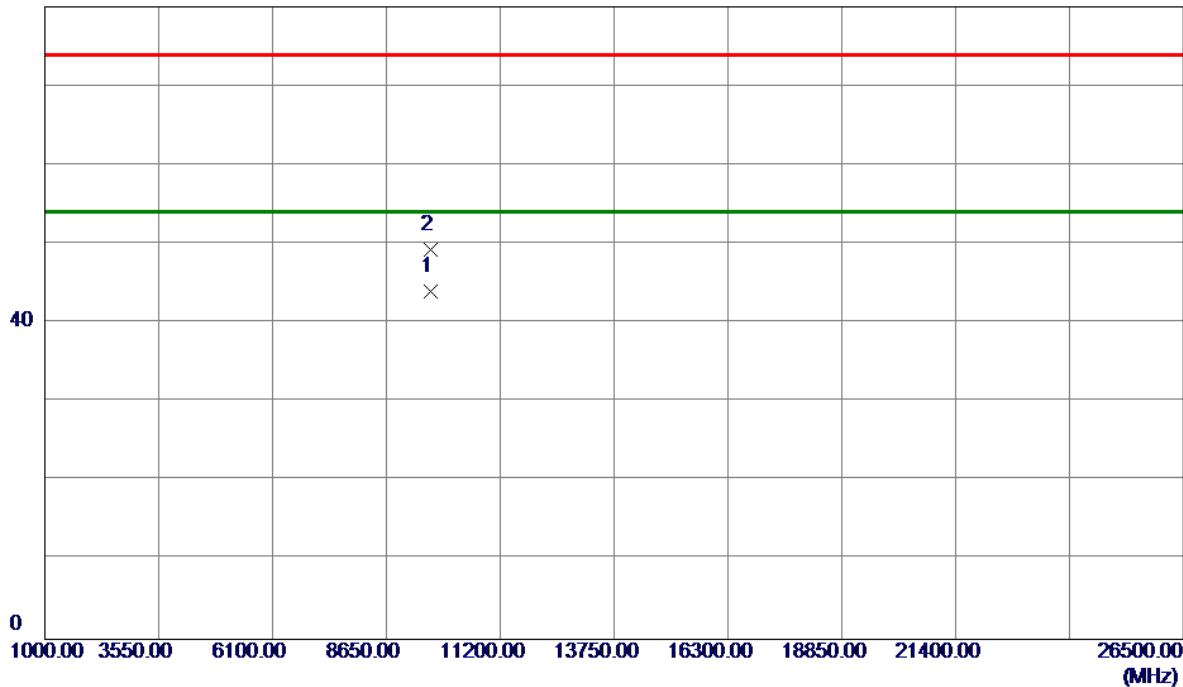
## APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

**Vertical****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	2390.0000	23.14	33.06	56.20	74.00	-17.80	Peak	
2	2390.0000	12.92	33.06	45.98	54.00	-8.02	AVG	
3 *	2410.8000	56.08	33.13	89.21	54.00	35.21	AVG	No Limit
4	2411.1500	58.90	33.14	92.04	74.00	18.04	Peak	No Limit

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

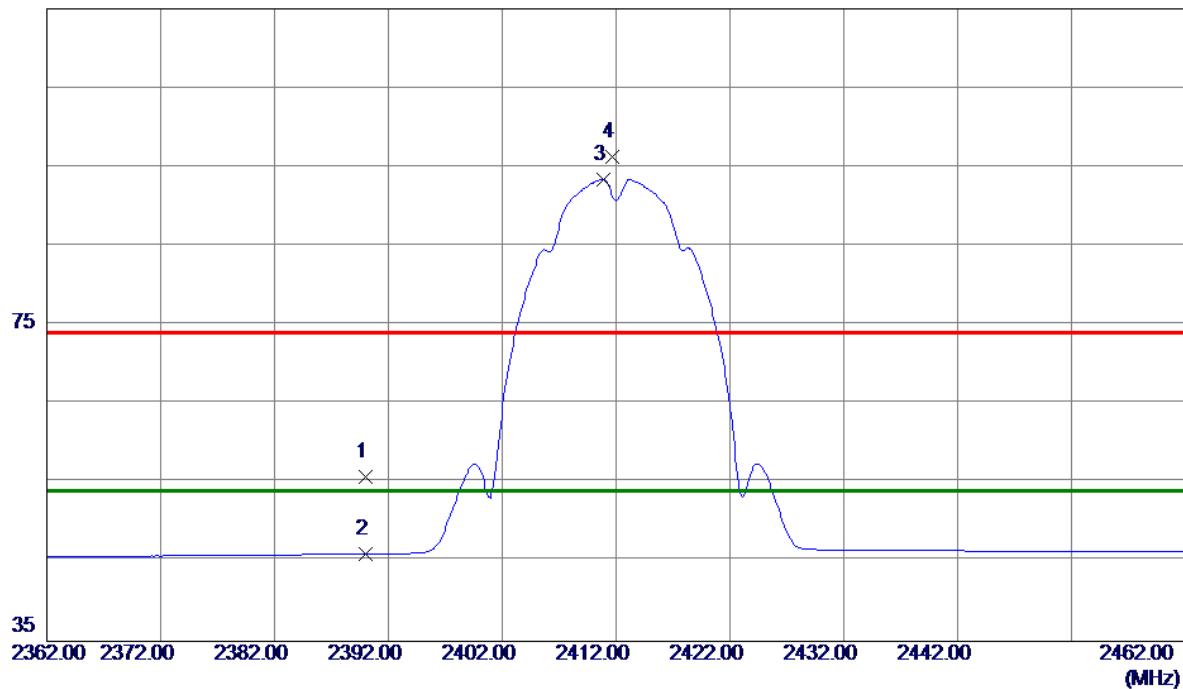
**Vertical****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.9710	28.96	15.10	44.06	54.00	-9.94	AVG	
2	9647.9860	34.25	15.10	49.35	74.00	-24.65	Peak	

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

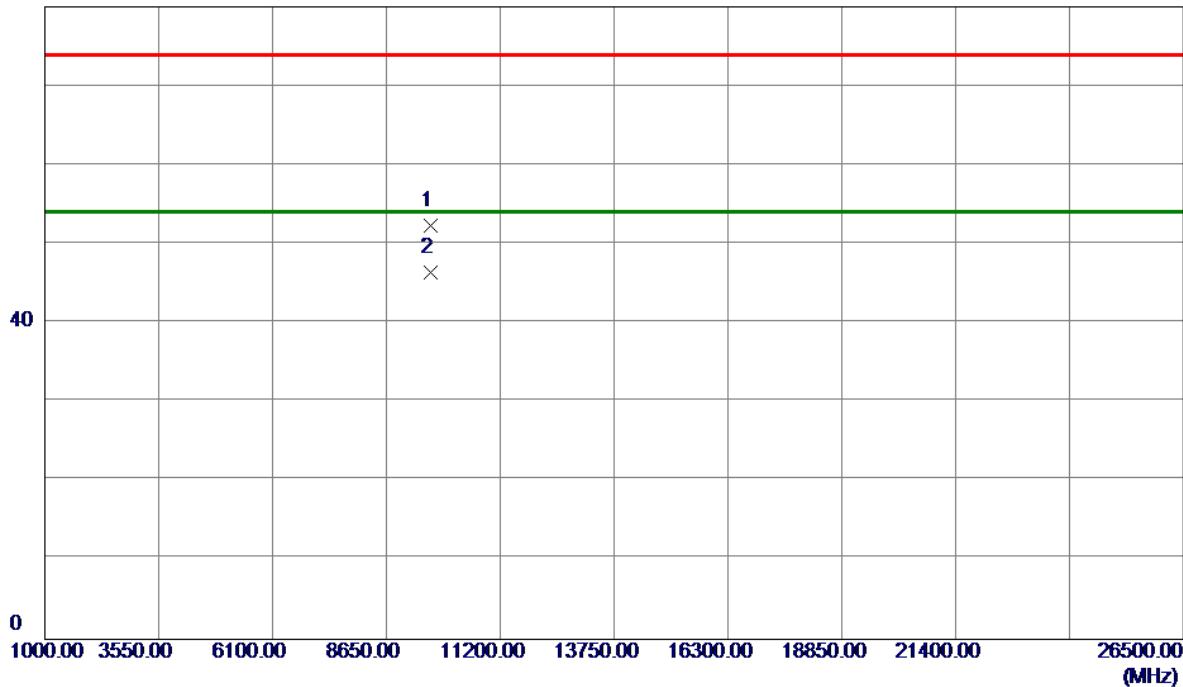
**Horizontal**

115 dBuV/m



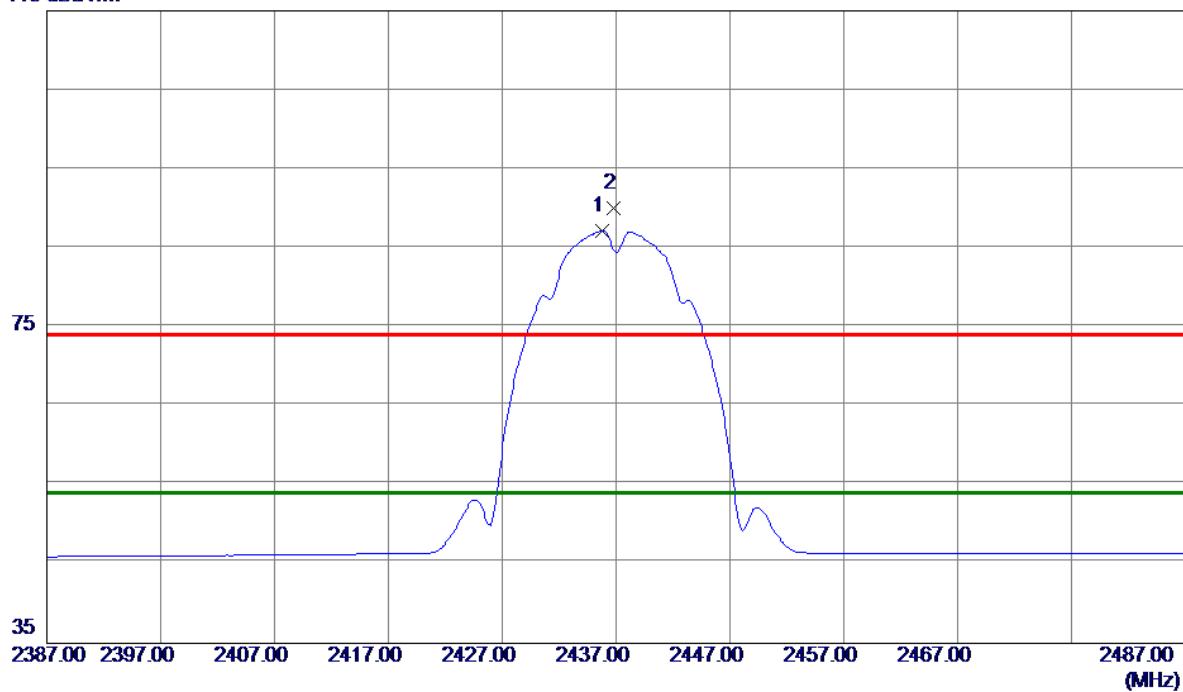
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.77	33.06	55.83	74.00	-18.17	Peak	
2	2390.0000	12.97	33.06	46.03	54.00	-7.97	AVG	
3 *	2410.8500	60.31	33.13	93.44	54.00	39.44	AVG	No Limit
4	2411.6500	63.10	33.14	96.24	74.00	22.24	Peak	No Limit

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

**Horizontal****80 dBuV/m**

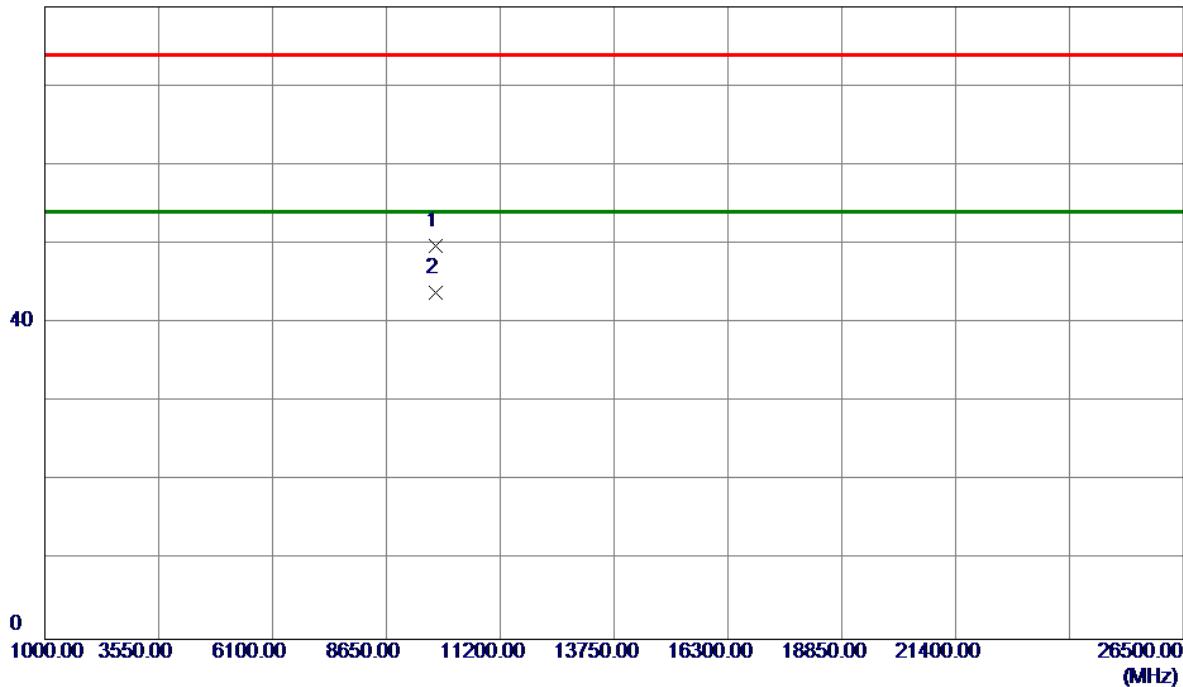
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9648.0030	37.25	15.10	52.35	74.00	-21.65	Peak	
2 *	9648.0070	31.32	15.10	46.42	54.00	-7.58	AVG	

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

**Vertical****115 dBuV/m**

No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1 *	2435.7500	53.98	33.23	87.21	54.00	33.21	AVG	No Limit
2	2436.7500	56.78	33.23	90.01	74.00	16.01	Peak	No Limit

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

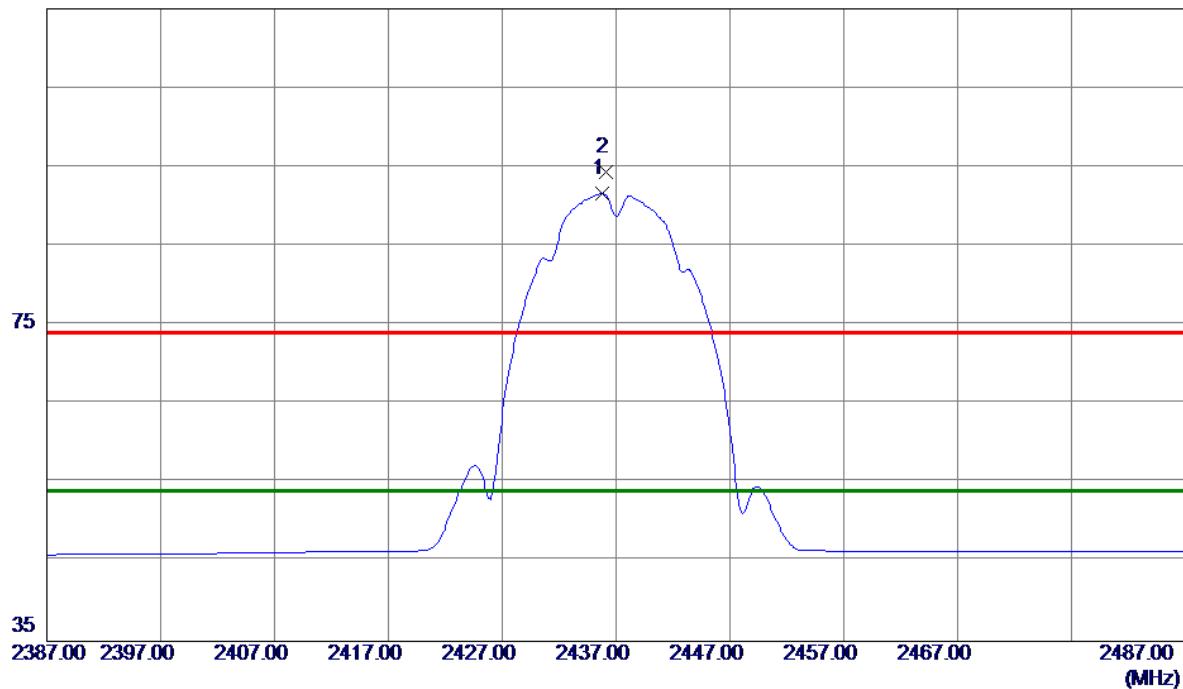
**Vertical****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.8700	34.56	15.17	49.73	74.00	-24.27	Peak	
2 *	9747.9470	28.73	15.17	43.90	54.00	-10.10	AVG	

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

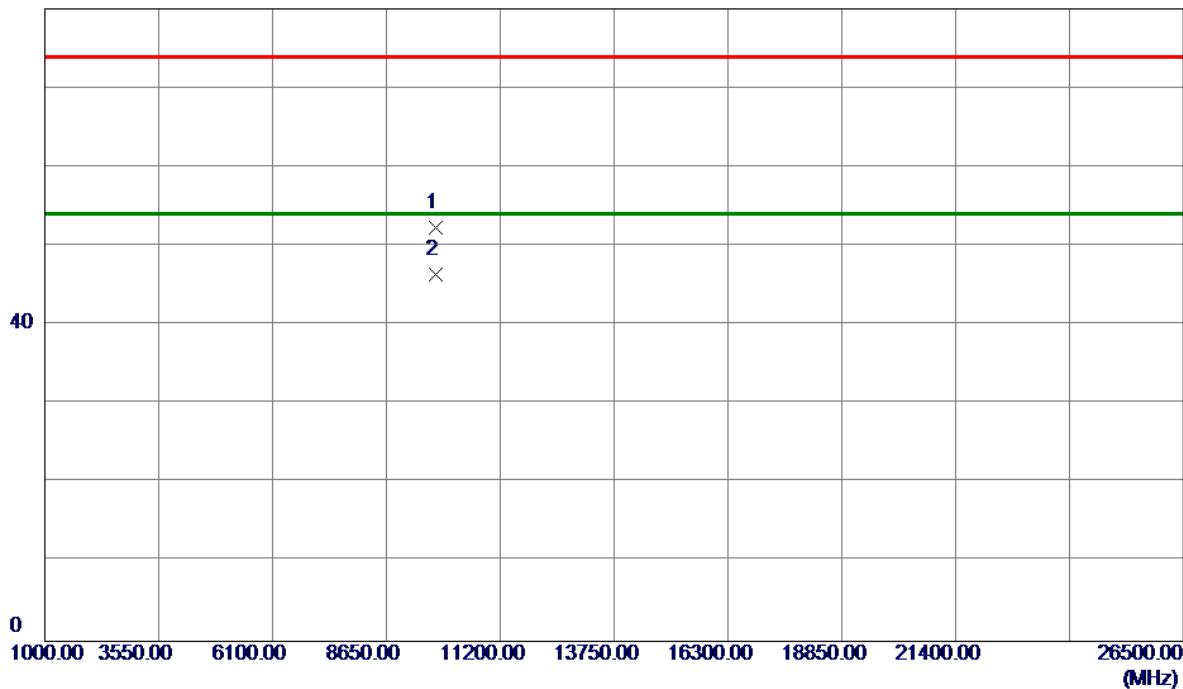
**Horizontal**

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 *	2435.7500	58.43	33.23	91.66	54.00	37.66	AVG	No Limit
2	2436.1500	61.16	33.23	94.39	74.00	20.39	Peak	No Limit

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

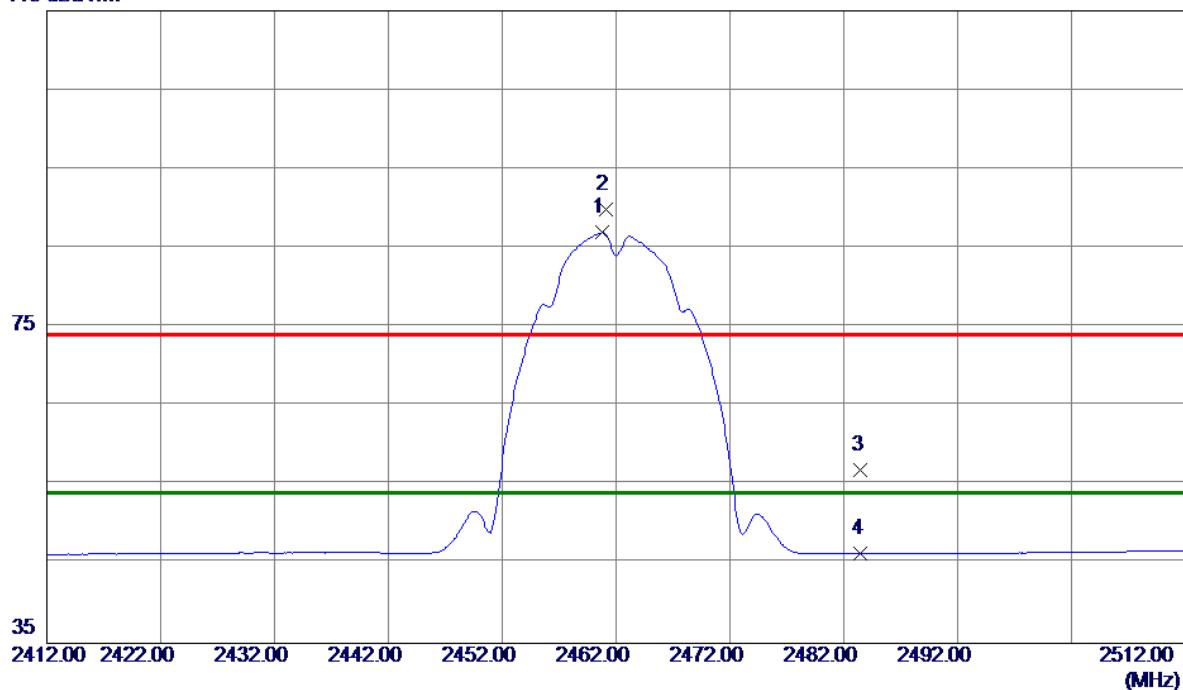
**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.8970	37.13	15.17	52.30	74.00	-21.70	Peak	
2 *	9747.9310	31.16	15.17	46.33	54.00	-7.67	AVG	

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

**Vertical**

115 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dB			
1 *	2460.7500	53.63	33.32	86.95	54.00	32.95	AVG	No Limit
2	2461.1500	56.49	33.32	89.81	74.00	15.81	Peak	No Limit
3	2483.5000	23.52	33.41	56.93	74.00	-17.07	Peak	
4	2483.5000	12.94	33.41	46.35	54.00	-7.65	AVG	

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

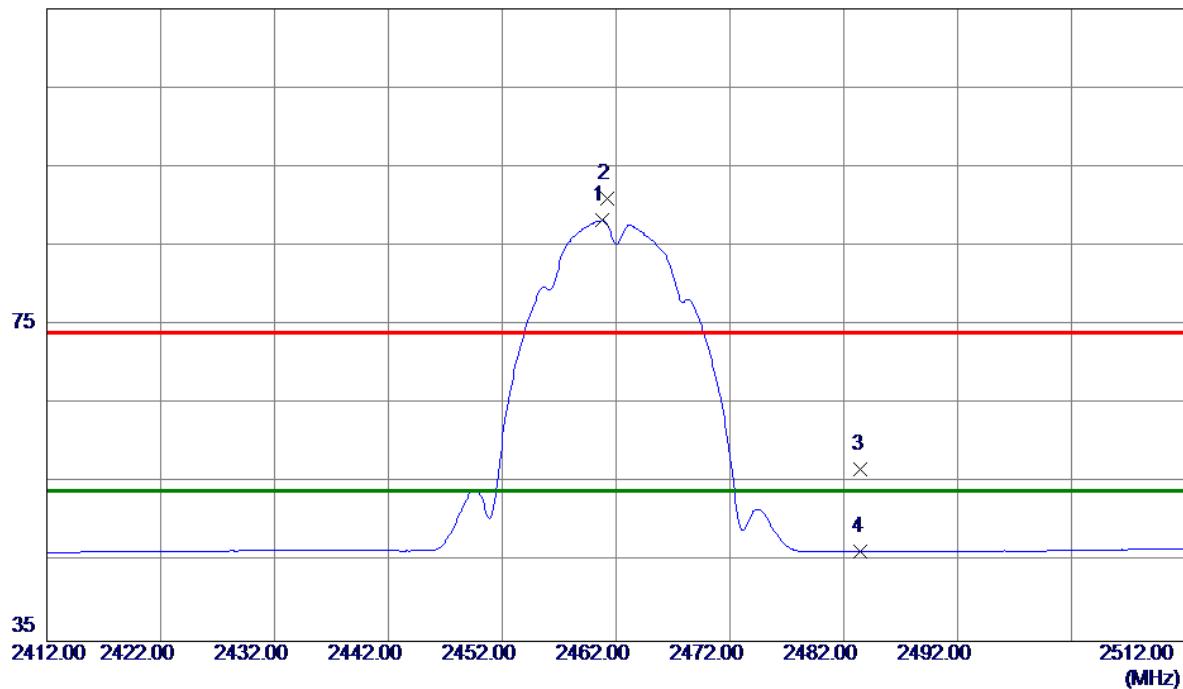
**Vertical****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9690	28.88	15.25	44.13	54.00	-9.87	AVG	
2	9848.0350	34.30	15.25	49.55	74.00	-24.45	Peak	

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

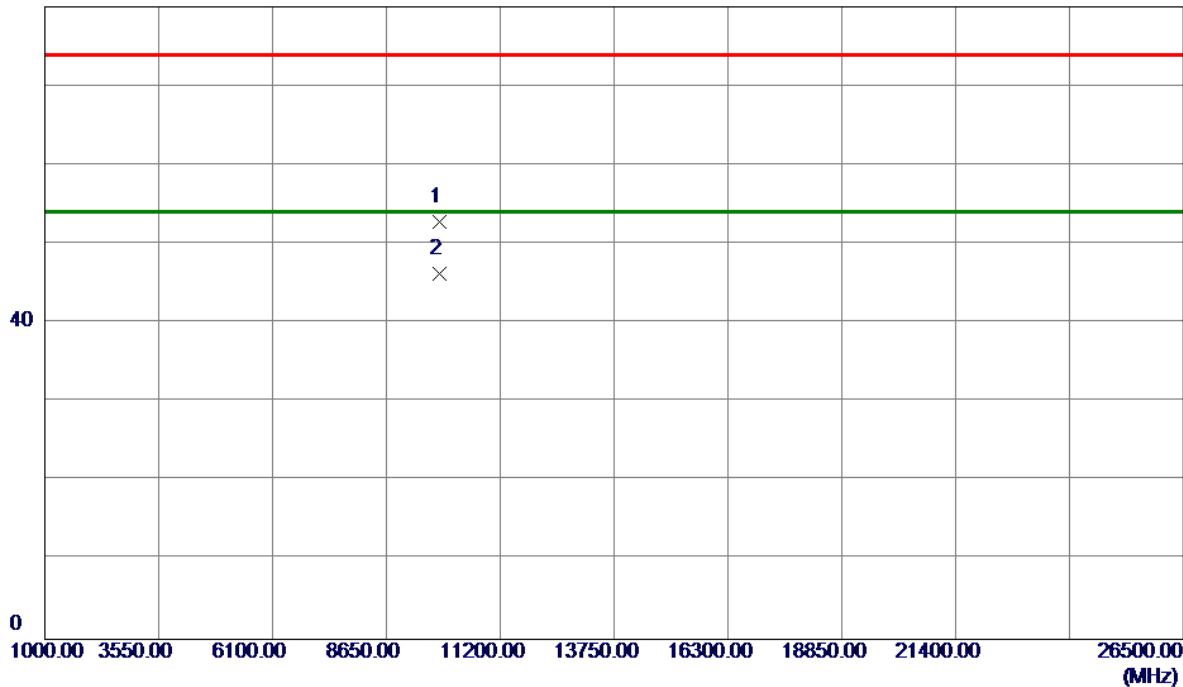
**Horizontal**

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 *	2460.7500	54.92	33.32	88.24	54.00	34.24	AVG	No Limit
2	2461.2000	57.62	33.32	90.94	74.00	16.94	Peak	No Limit
3	2483.5000	23.40	33.41	56.81	74.00	-17.19	Peak	
4	2483.5000	12.93	33.41	46.34	54.00	-7.66	AVG	

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

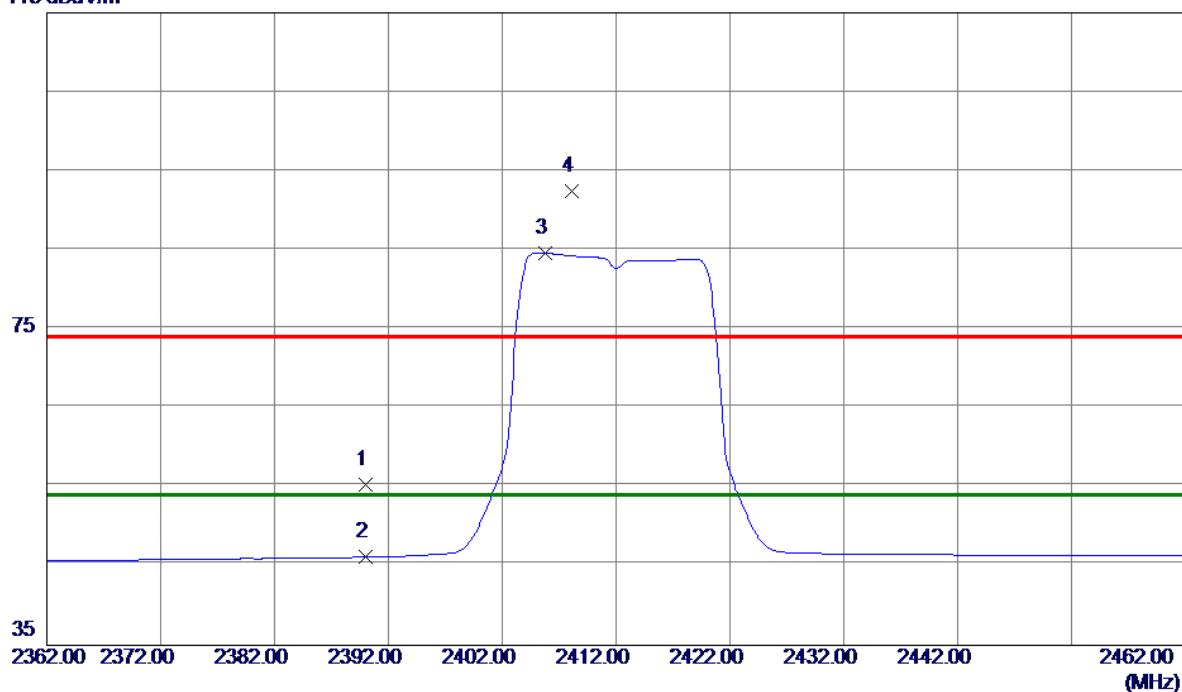
**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.9490	37.49	15.25	52.74	74.00	-21.26	Peak	
2 *	9847.9760	31.02	15.25	46.27	54.00	-7.73	AVG	

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

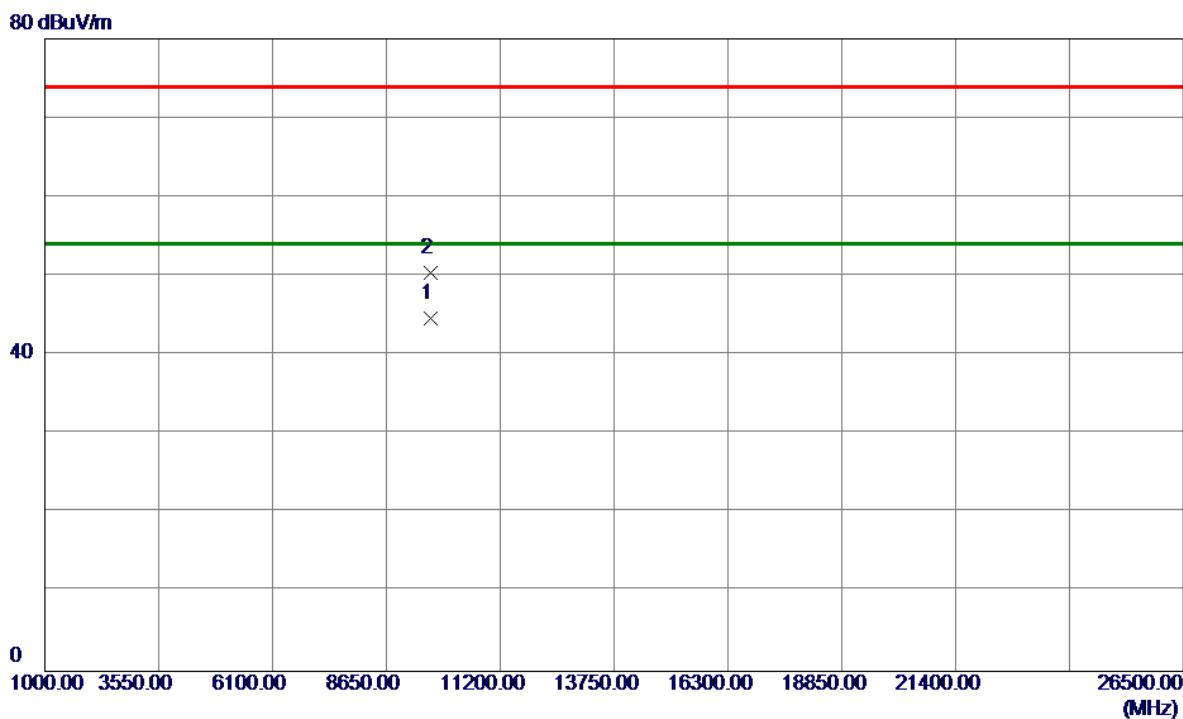
**Vertical**

115 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	22.22	33.06	55.28	74.00	-18.72	Peak	
2	2390.0000	13.08	33.06	46.14	54.00	-7.86	AVG	
3 *	2405.8000	51.49	33.12	84.61	54.00	30.61	AVG	No Limit
4	2408.1000	59.32	33.12	92.44	74.00	18.44	Peak	No Limit

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

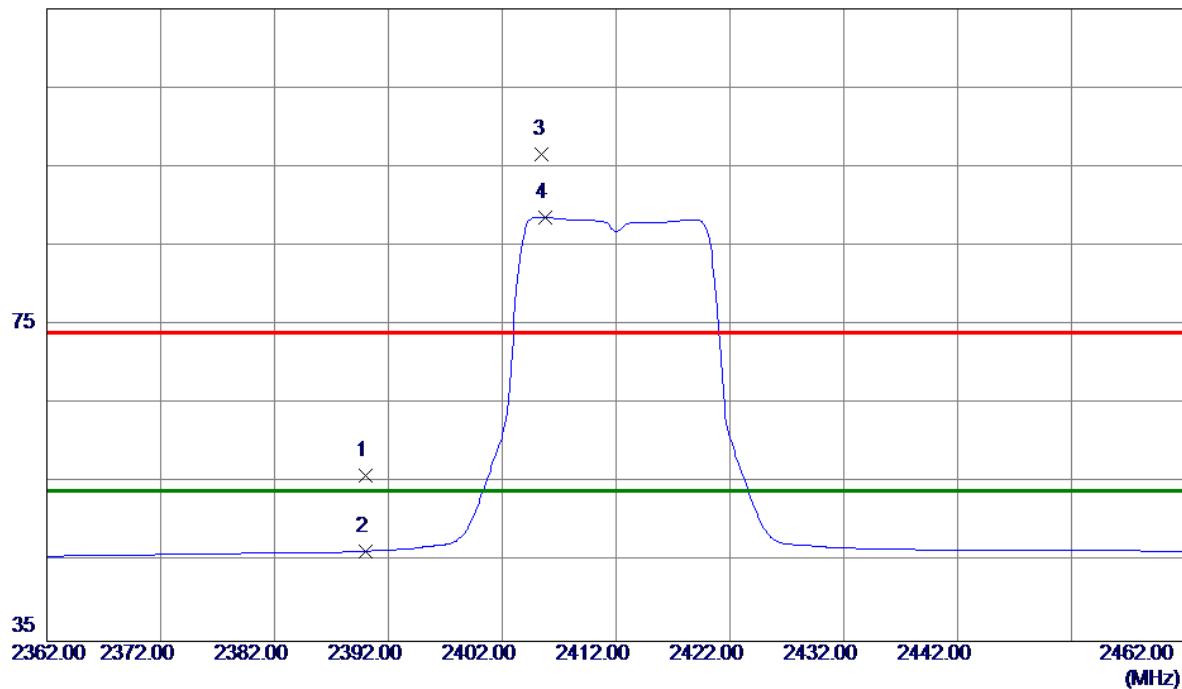
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.9530	29.50	15.10	44.60	54.00	-9.40	AVG	
2	9648.0370	35.25	15.10	50.35	74.00	-23.65	Peak	

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

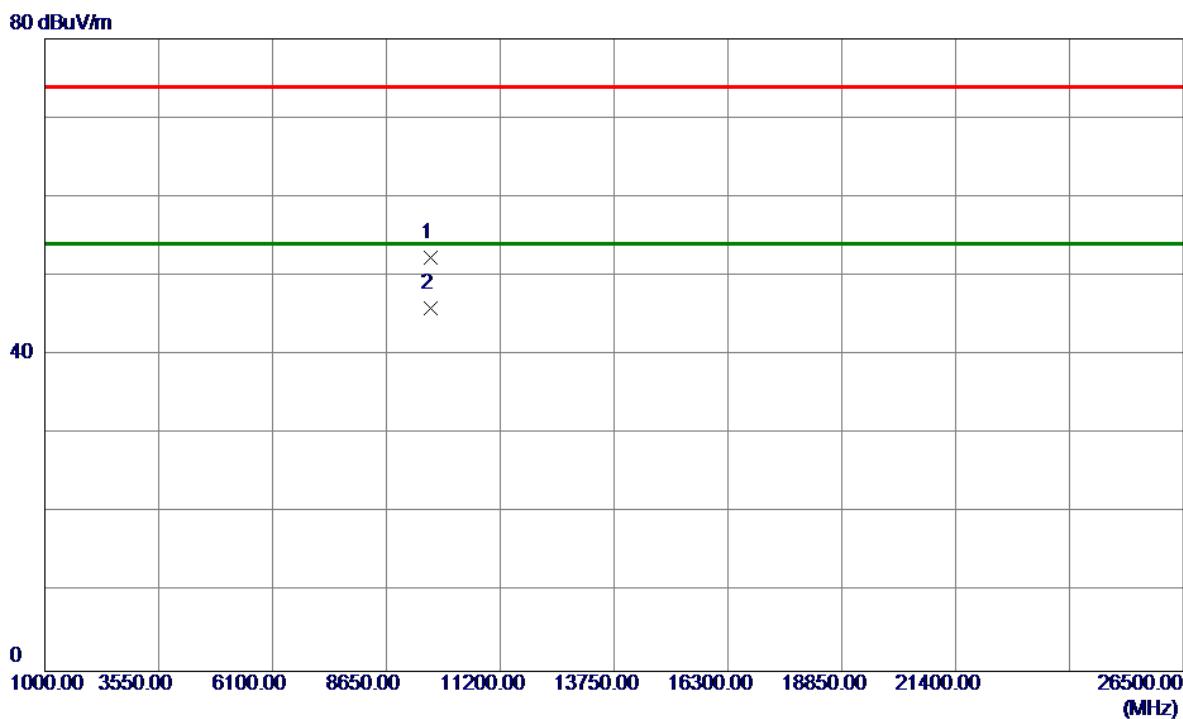
**Horizontal**

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	2390.0000	22.97	33.06	56.03	74.00	-17.97	Peak	
2	2390.0000	13.35	33.06	46.41	54.00	-7.59	AVG	
3	2405.5000	63.54	33.11	96.65	74.00	22.65	Peak	No Limit
4 *	2405.8000	55.50	33.12	88.62	54.00	34.62	AVG	No Limit

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

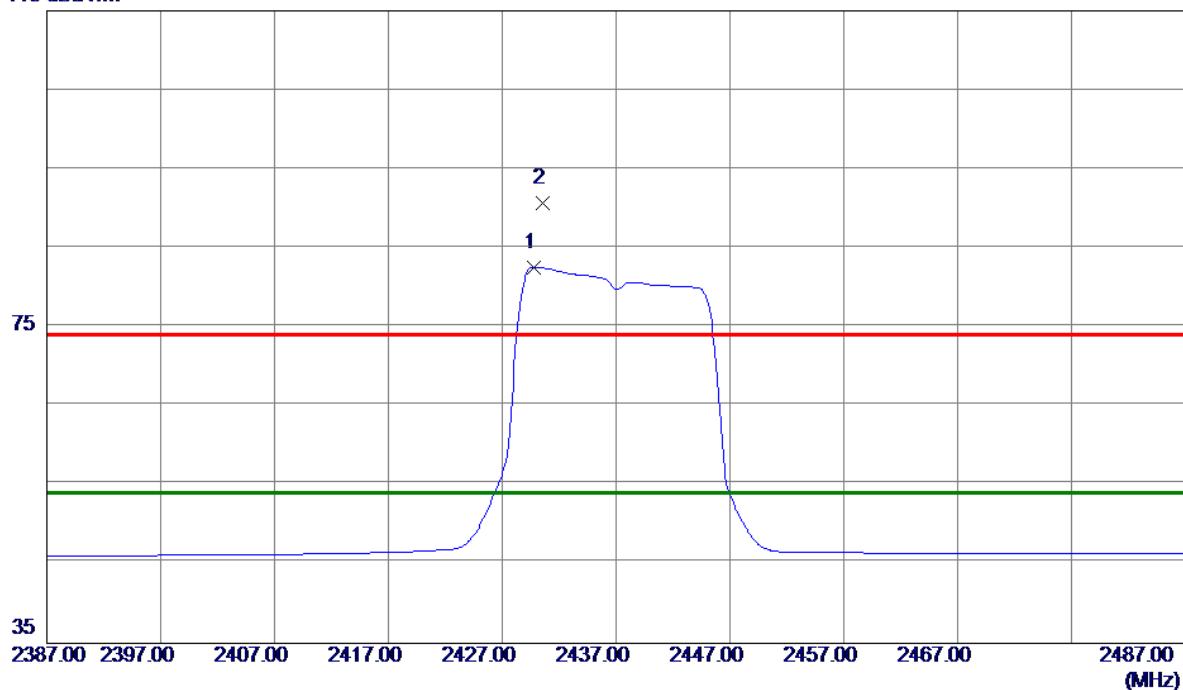
**Horizontal**

No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	9647.9540	37.23	15.10	52.33	74.00	-21.67	Peak	
2 *	9647.9790	30.87	15.10	45.97	54.00	-8.03	AVG	

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

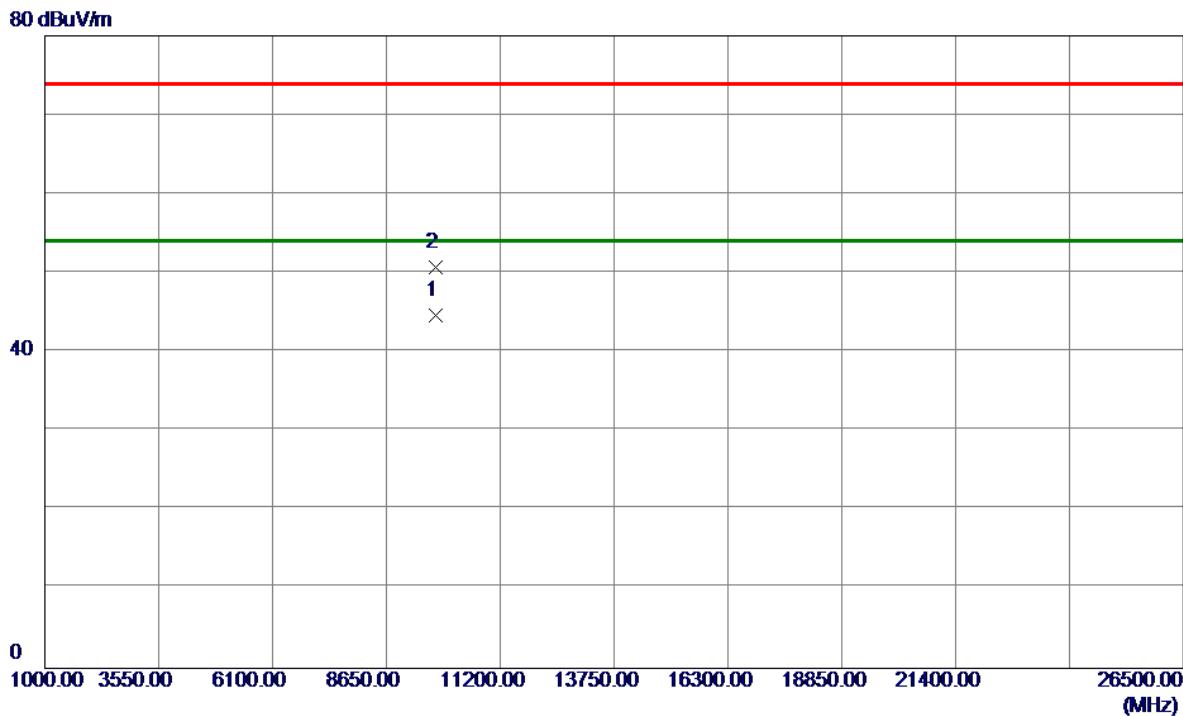
## Vertical

115 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1 *	2429.7500	49.39	33.21	82.60	54.00	28.60	AVG	No Limit
2	2430.6000	57.40	33.21	90.61	74.00	16.61	Peak	No Limit

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

**Vertical**

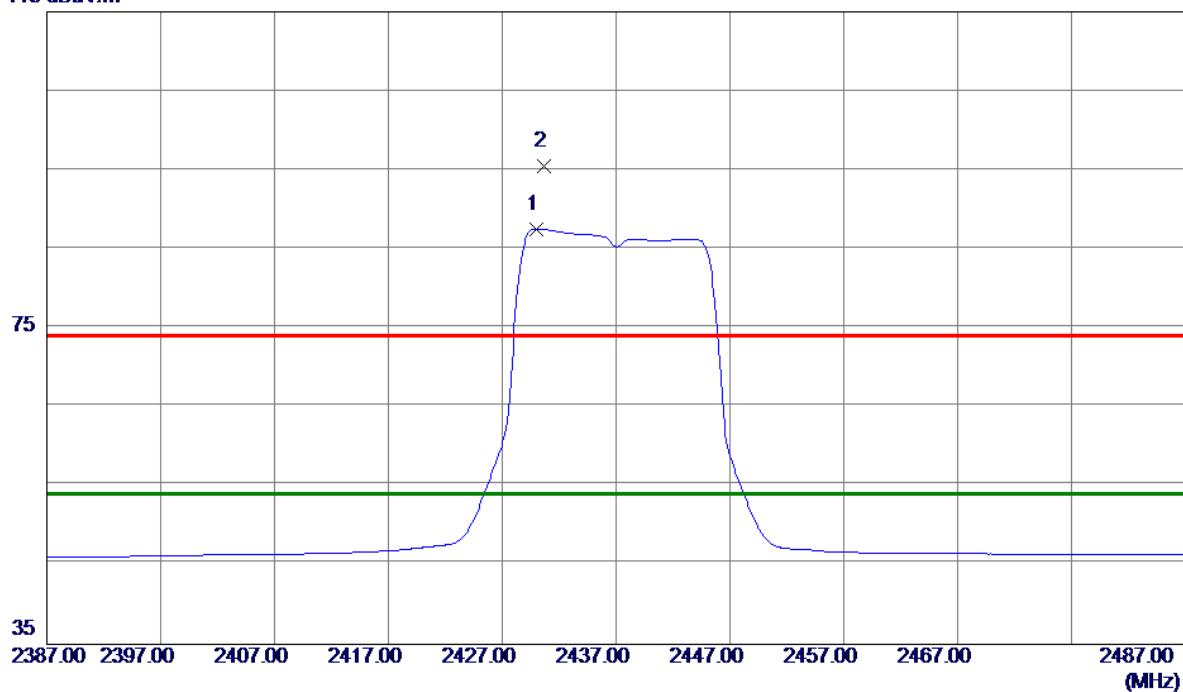
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9530	29.48	15.17	44.65	54.00	-9.35	Avg	
2	9748.0580	35.53	15.17	50.70	74.00	-23.30	Peak	

Orthogonal Axis : X

Test Mode : TX G MODE 2437MHz

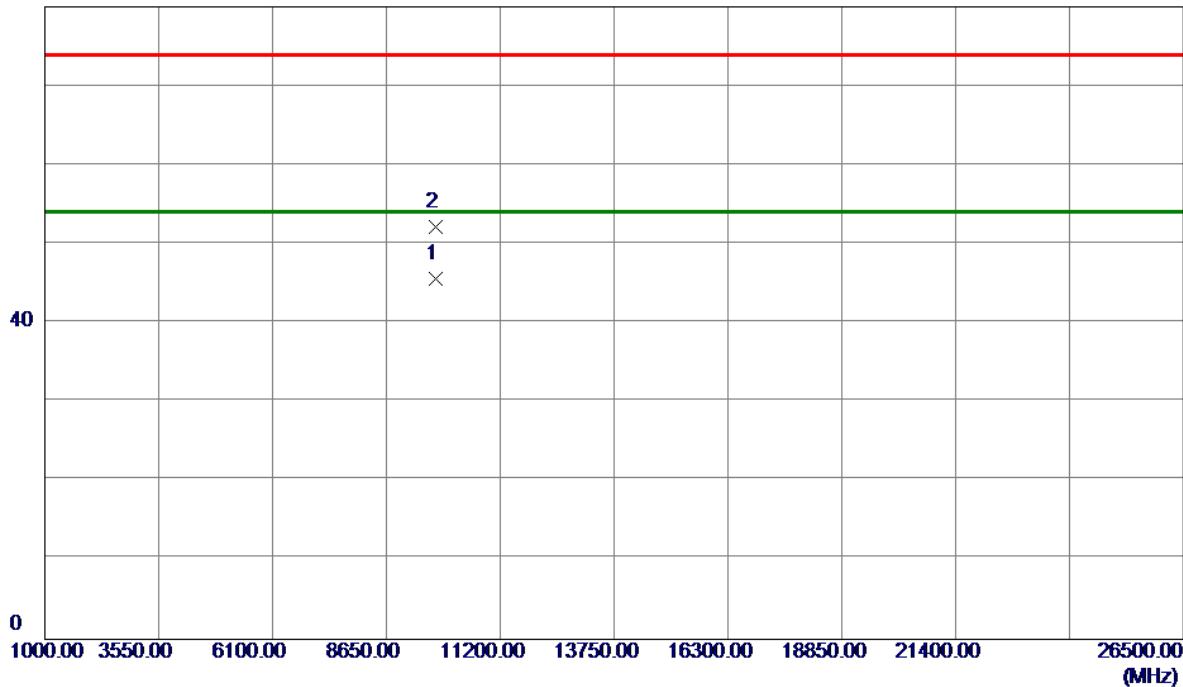
## Horizontal

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 *	2429.9500	54.29	33.21	87.50	54.00	33.50	AVG	No Limit
2	2430.7000	62.31	33.21	95.52	74.00	21.52	Peak	No Limit

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

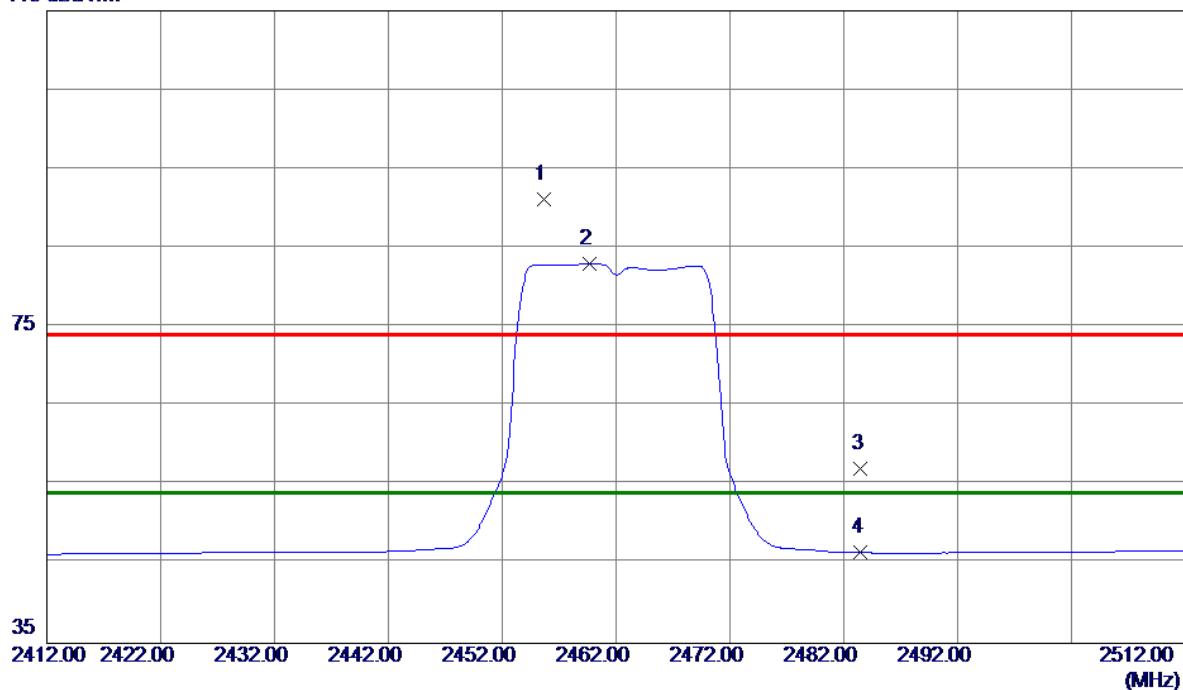
**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9340	30.45	15.17	45.62	54.00	-8.38	AVG	
2	9747.9880	37.05	15.17	52.22	74.00	-21.78	Peak	

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

## Vertical

115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Detector		Comment
							Peak	AVG	
1	2455.6500	57.81	33.30	91.11	74.00	17.11	Peak	No Limit	
2 *	2459.7000	49.72	33.32	83.04	54.00	29.04	AVG	No Limit	
3	2483.5000	23.71	33.41	57.12	74.00	-16.88	Peak		
4	2483.5000	13.07	33.41	46.48	54.00	-7.52	AVG		

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

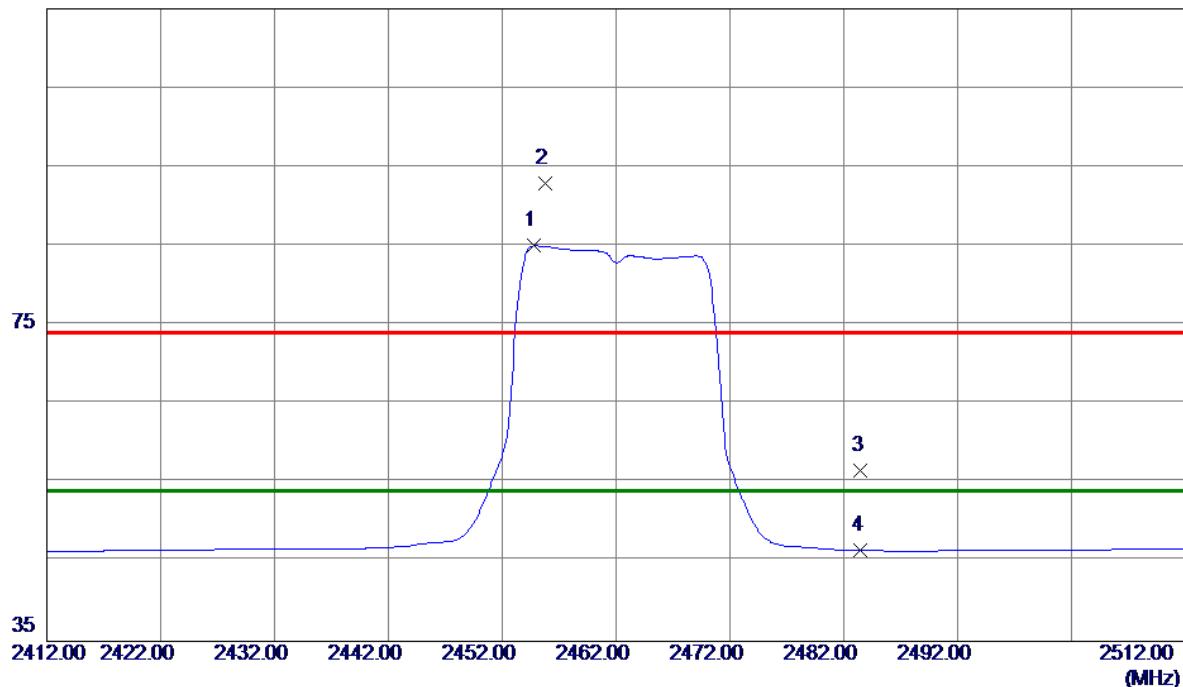
**Vertical****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8720	33.58	15.25	48.83	74.00	-25.17	Peak	
2 *	9847.8840	27.83	15.25	43.08	54.00	-10.92	AVG	

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

**Horizontal**

115 dBuV/m



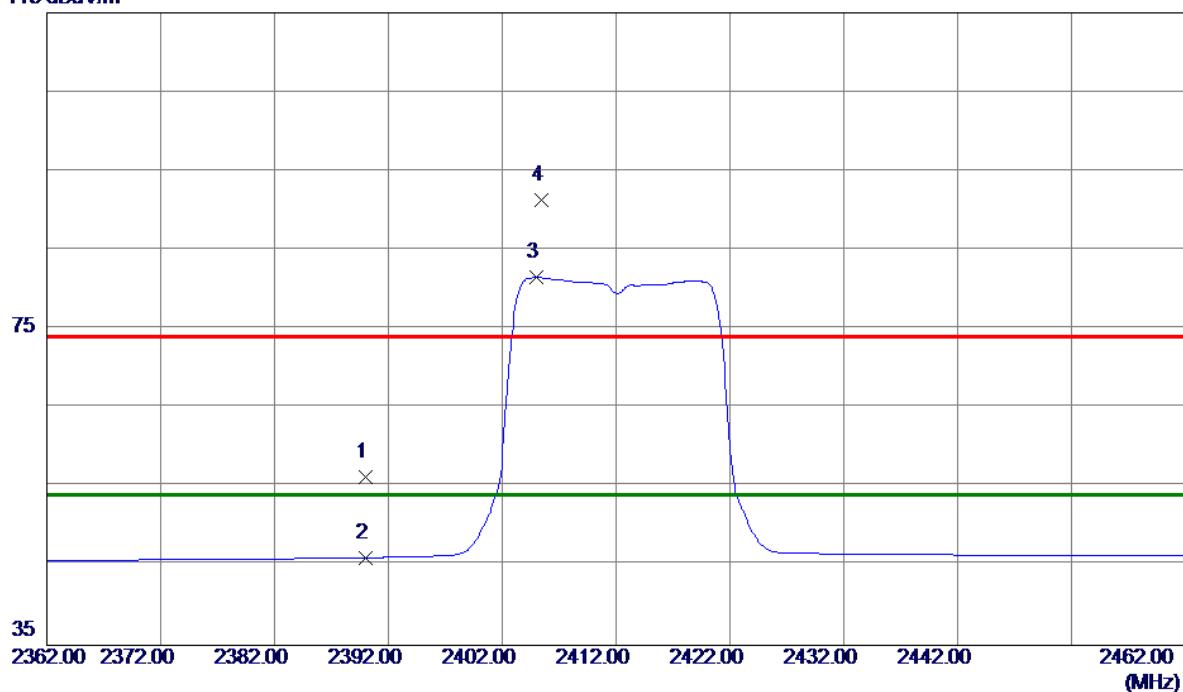
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.8000	51.72	33.30	85.02	54.00	31.02	AVG	No Limit
2	2455.7500	59.57	33.30	92.87	74.00	18.87	Peak	No Limit
3	2483.5000	23.18	33.41	56.59	74.00	-17.41	Peak	
4	2483.5000	13.07	33.41	46.48	54.00	-7.52	AVG	

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

**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9650	30.96	15.25	46.21	54.00	-7.79	AVG	
2	9847.9760	36.92	15.25	52.17	74.00	-21.83	Peak	

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

**Vertical****115 dBuV/m**

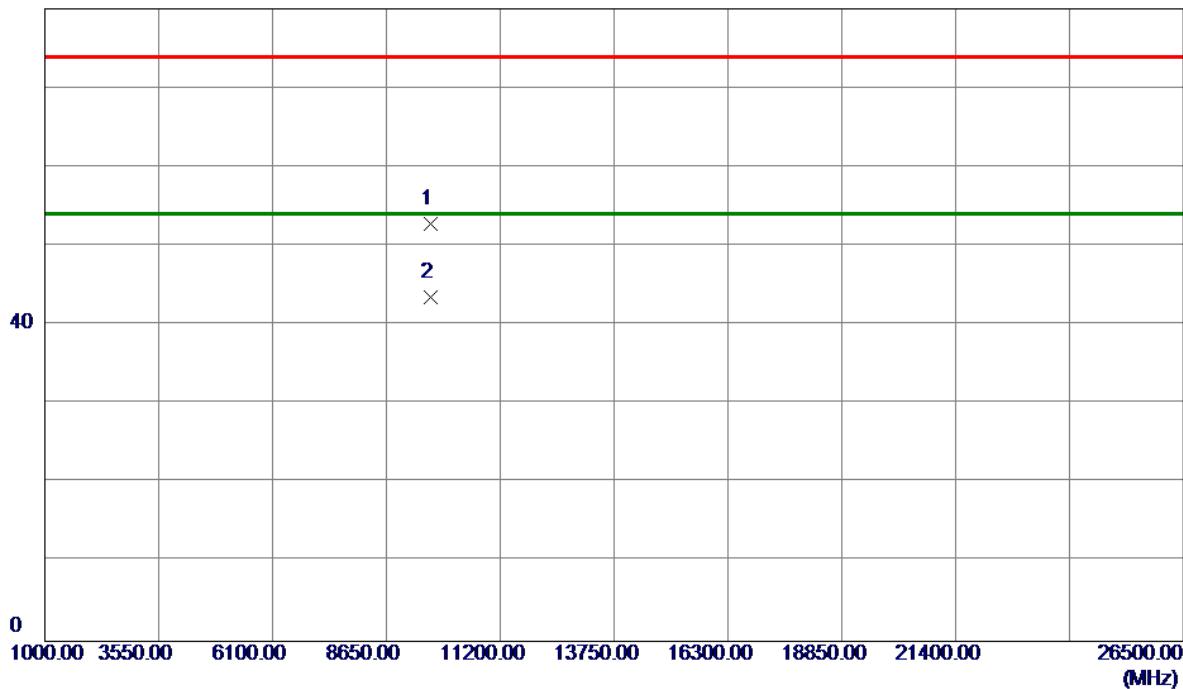
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	23.17	33.06	56.23	74.00	-17.77	Peak	
2	2390.0000	13.04	33.06	46.10	54.00	-7.90	AVG	
3 *	2405.0500	48.40	33.11	81.51	54.00	27.51	AVG	No Limit
4	2405.4500	58.16	33.11	91.27	74.00	17.27	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

## Vertical

80 dBuV/m



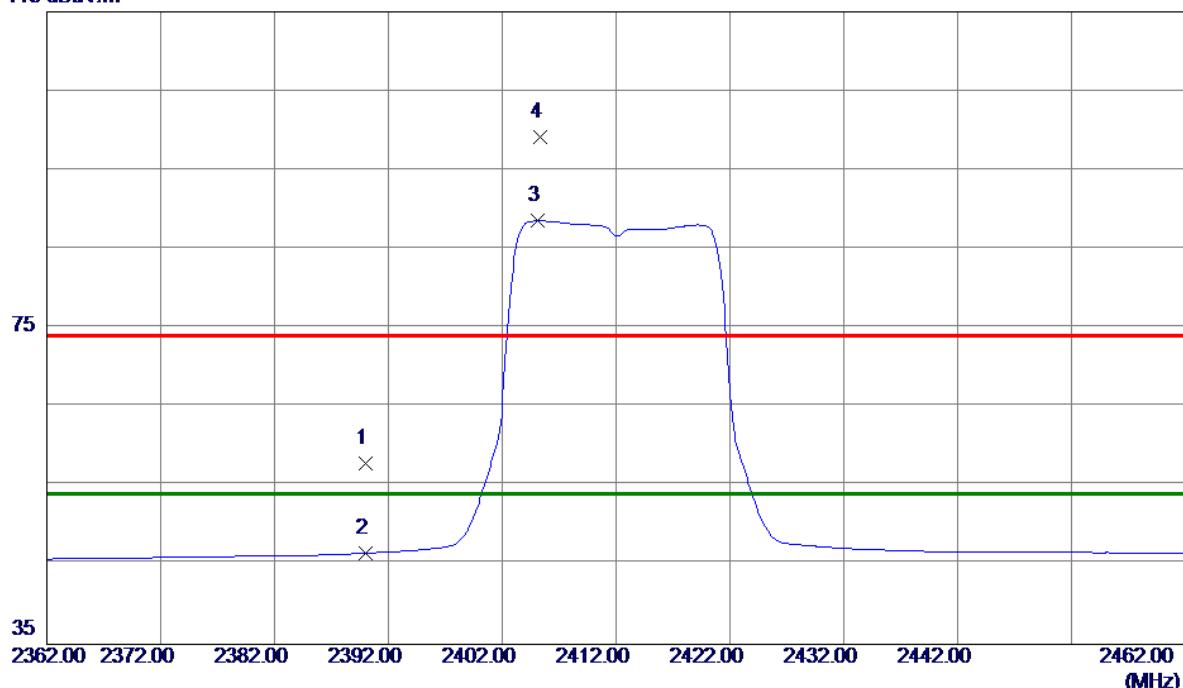
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.9870	37.69	15.10	52.79	74.00	-21.21	Peak	
2 *	9648.0380	28.39	15.10	43.49	54.00	-10.51	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

## Horizontal

115 dBuV/m



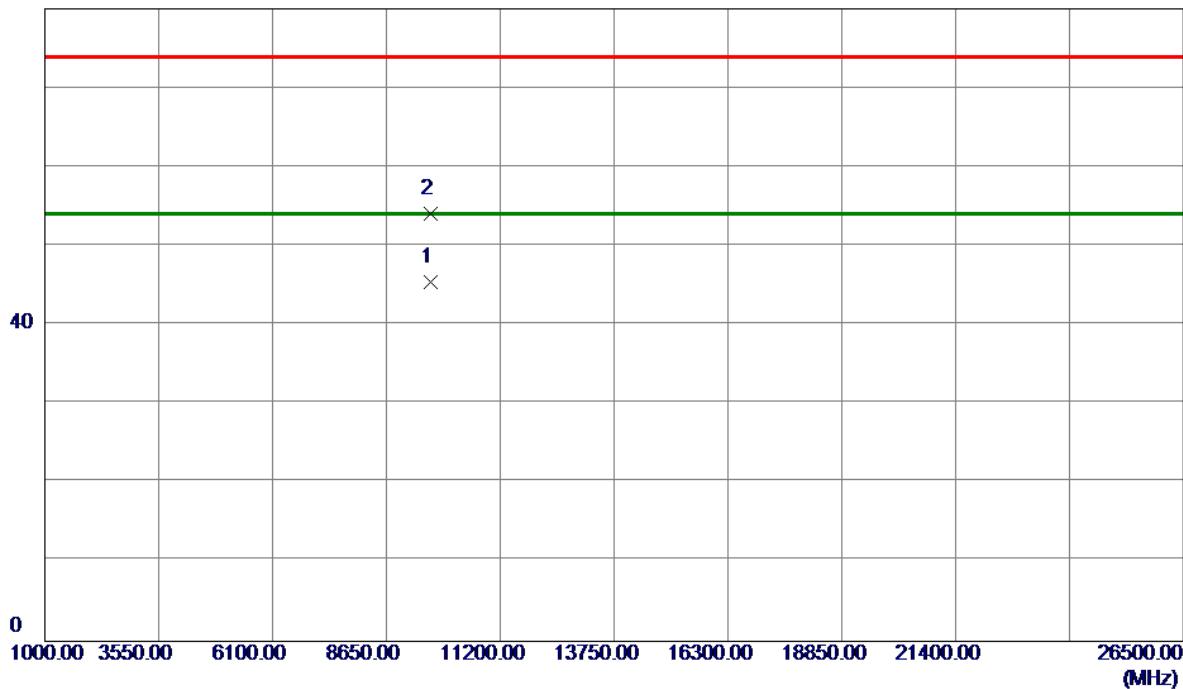
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.86	33.06	57.92	74.00	-16.08	Peak	
2	2390.0000	13.48	33.06	46.54	54.00	-7.46	AVG	
3 *	2405.1500	55.45	33.11	88.56	54.00	34.56	AVG	No Limit
4	2405.3000	66.05	33.11	99.16	74.00	25.16	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

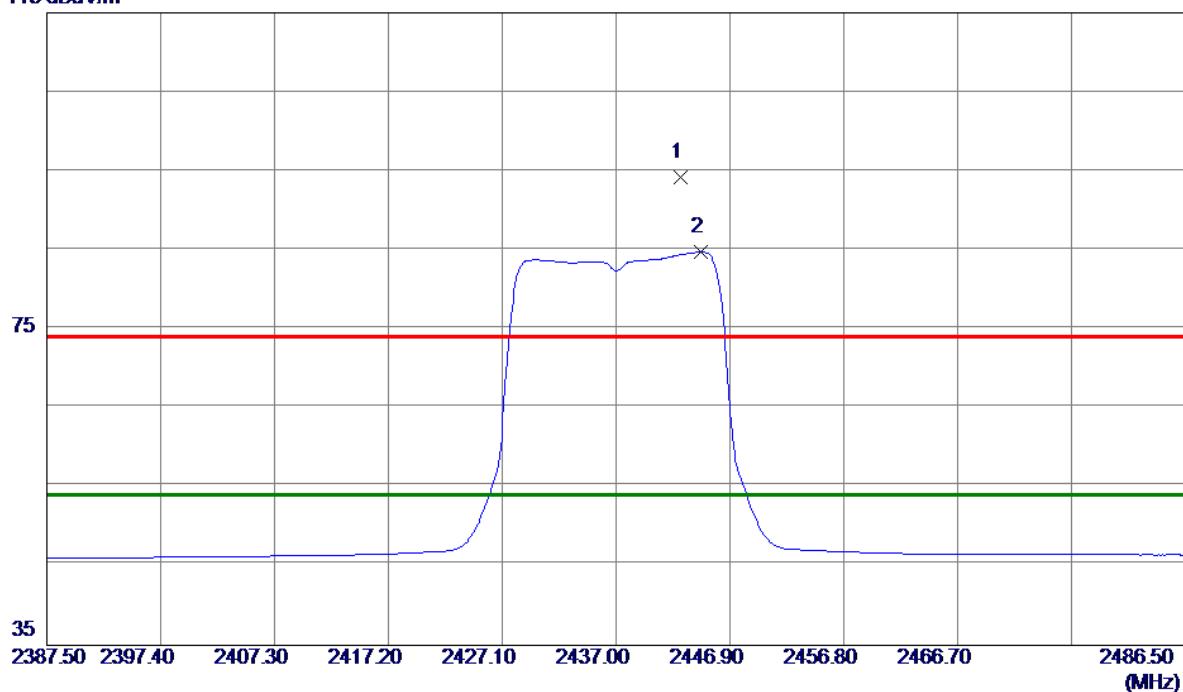
## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.9480	30.39	15.10	45.49	54.00	-8.51	AVG	
2	9648.0460	38.99	15.10	54.09	74.00	-19.91	Peak	

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

**Vertical****115 dBuV/m**

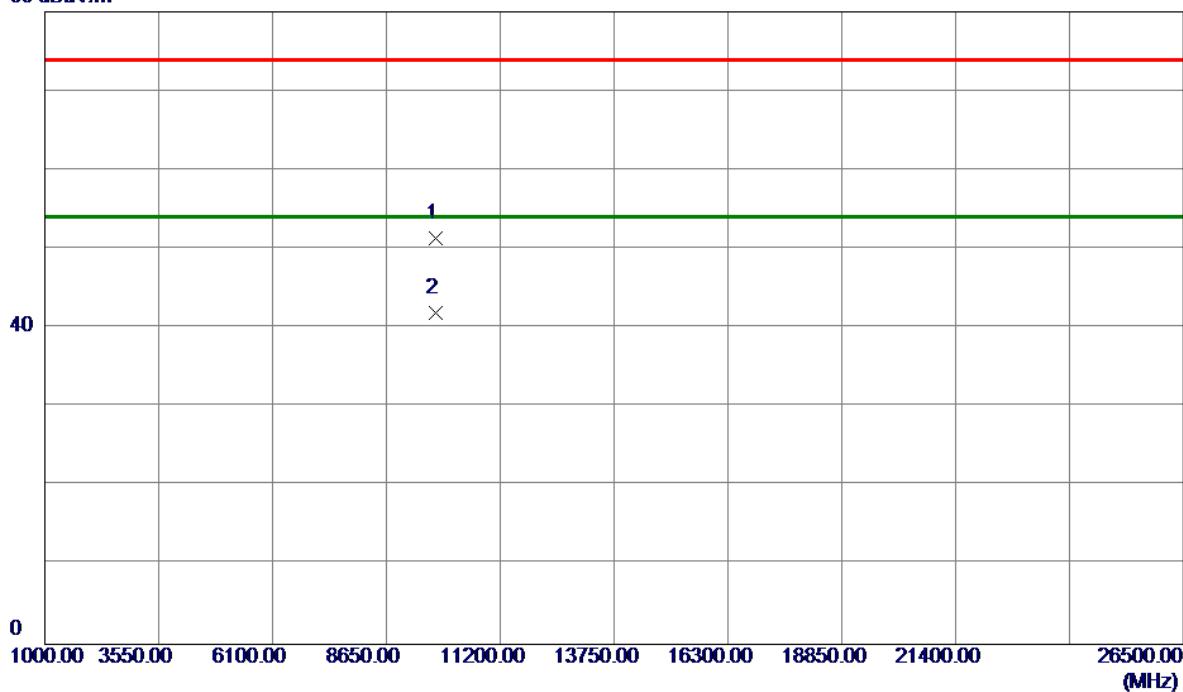
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2442.5930	60.95	33.25	94.20	74.00	20.20	Peak	No Limit
2 *	2444.3260	51.49	33.26	84.75	54.00	30.75	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

## Vertical

80 dBuV/m



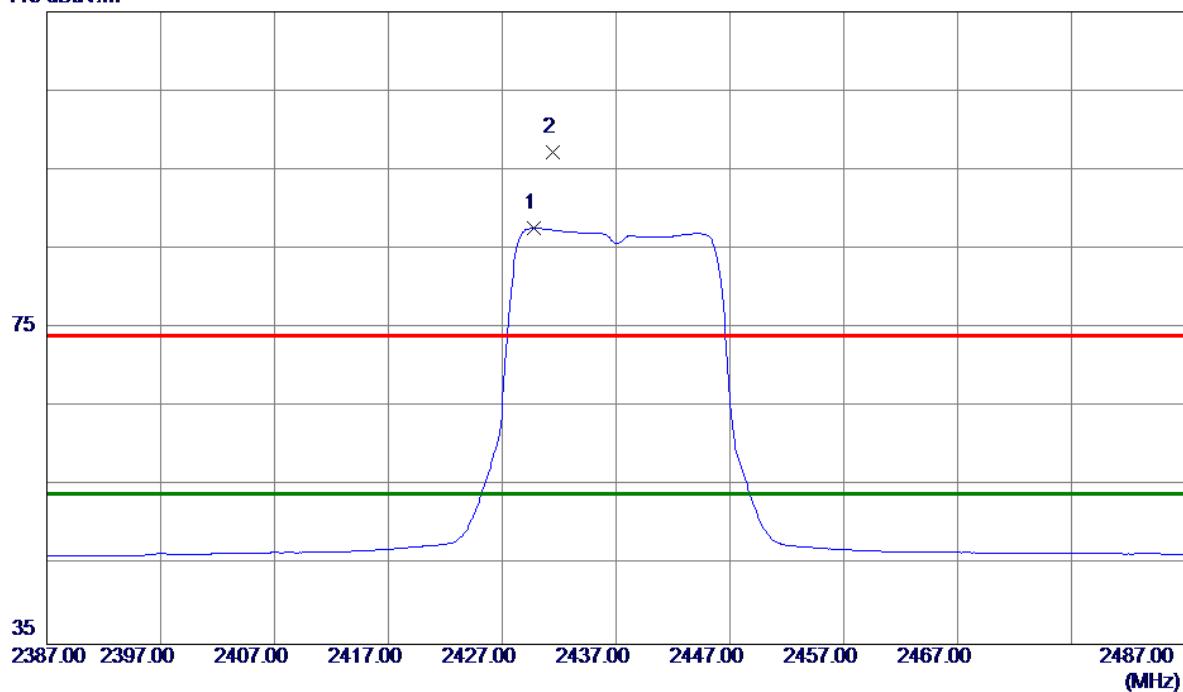
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.9860	36.16	15.17	51.33	74.00	-22.67	Peak	
2 *	9747.9860	26.82	15.17	41.99	54.00	-12.01	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

**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 *	2429.8000	54.39	33.21	87.60	54.00	33.60	AVG	No Limit
2	2431.4500	64.05	33.21	97.26	74.00	23.26	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

## Horizontal

80 dBuV/m



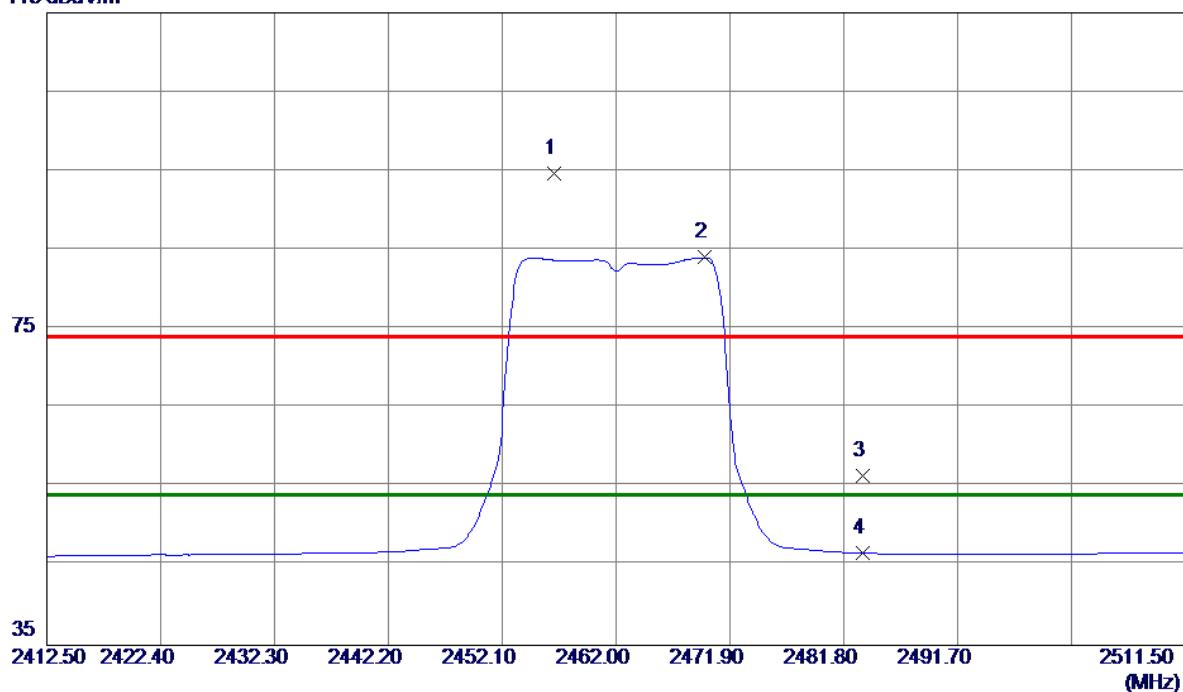
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9748.0359	30.22	15.17	45.39	54.00	-8.61	AVG	
2	9748.1350	38.34	15.17	53.51	74.00	-20.49	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

## Vertical

115 dBuV/m



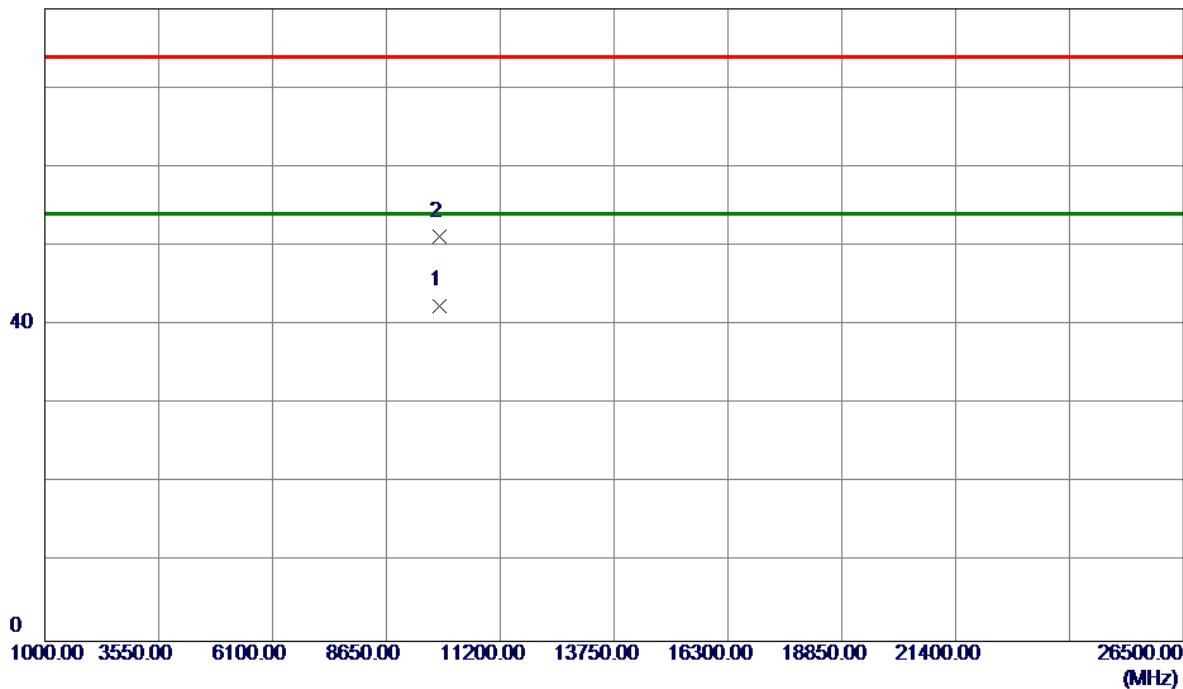
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2456.6040	61.36	33.31	94.67	74.00	20.67	Peak	No Limit
2 *	2469.6730	50.68	33.36	84.04	54.00	30.04	AVG	No Limit
3	2483.5000	23.02	33.41	56.43	74.00	-17.57	Peak	
4	2483.5000	13.25	33.41	46.66	54.00	-7.34	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

## Vertical

80 dBuV/m



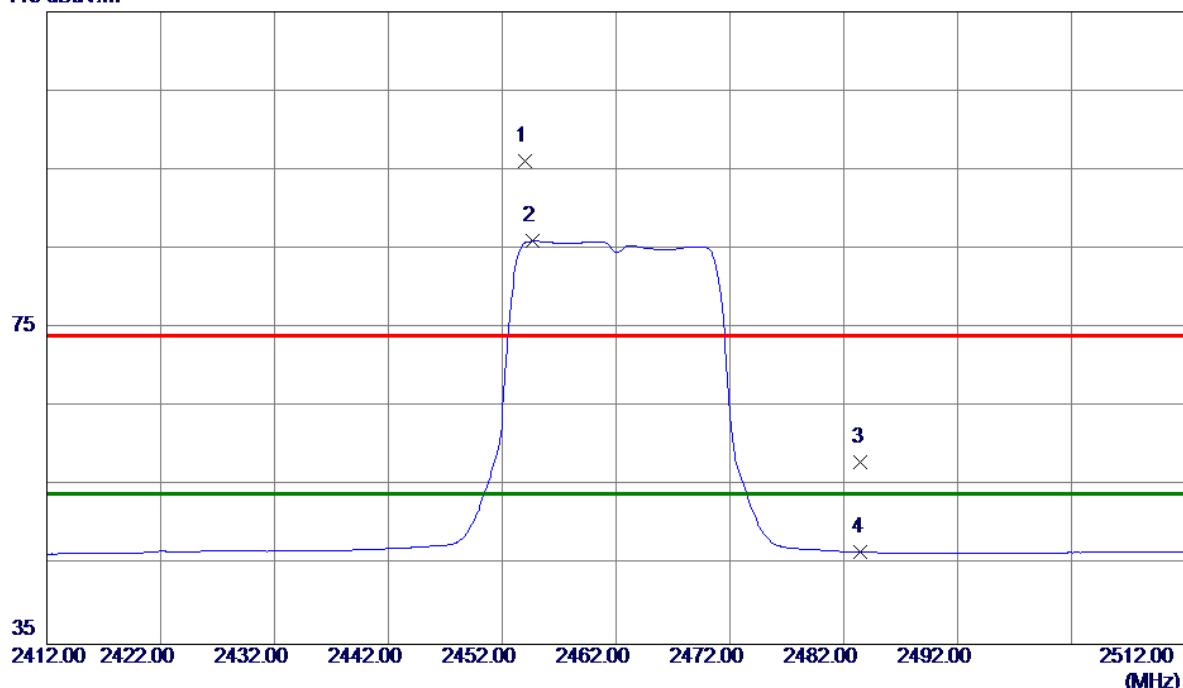
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9440	27.23	15.25	42.48	54.00	-11.52	AVG	
2	9848.1449	35.96	15.25	51.21	74.00	-22.79	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

## Horizontal

115 dBuV/m



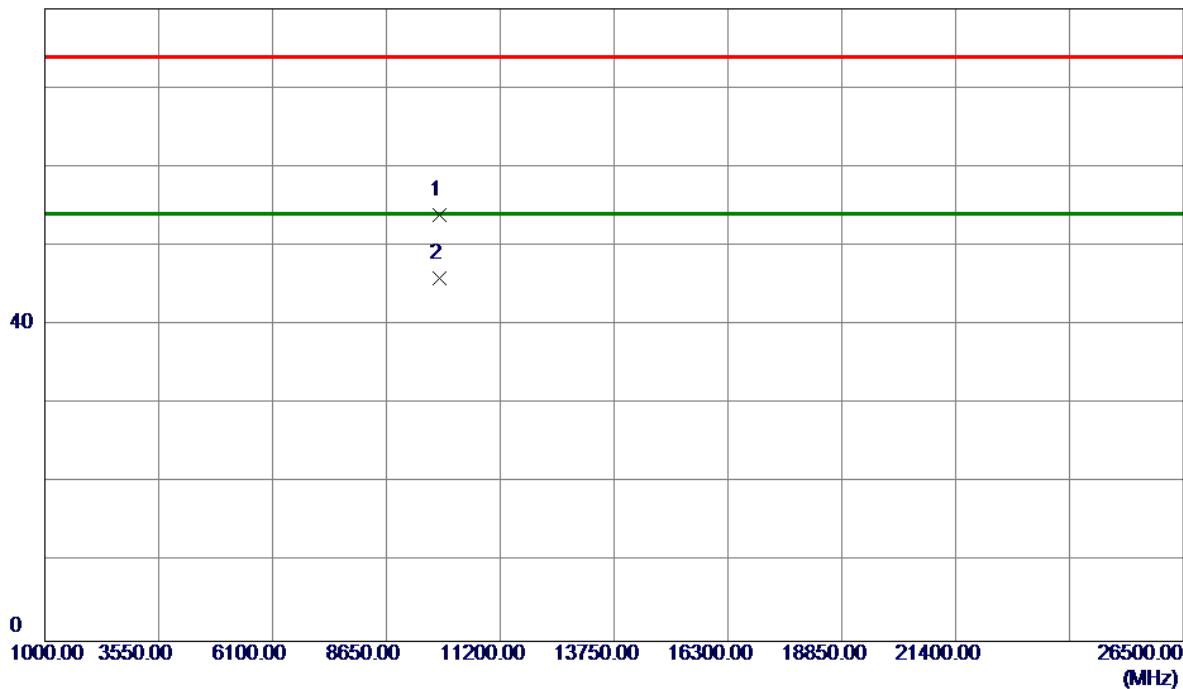
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2453.9500	62.86	33.30	96.16	74.00	22.16	Peak	No Limit
2 *	2454.7000	52.67	33.30	85.97	54.00	31.97	AVG	No Limit
3	2483.5000	24.68	33.41	58.09	74.00	-15.91	Peak	
4	2483.5000	13.27	33.41	46.68	54.00	-7.32	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

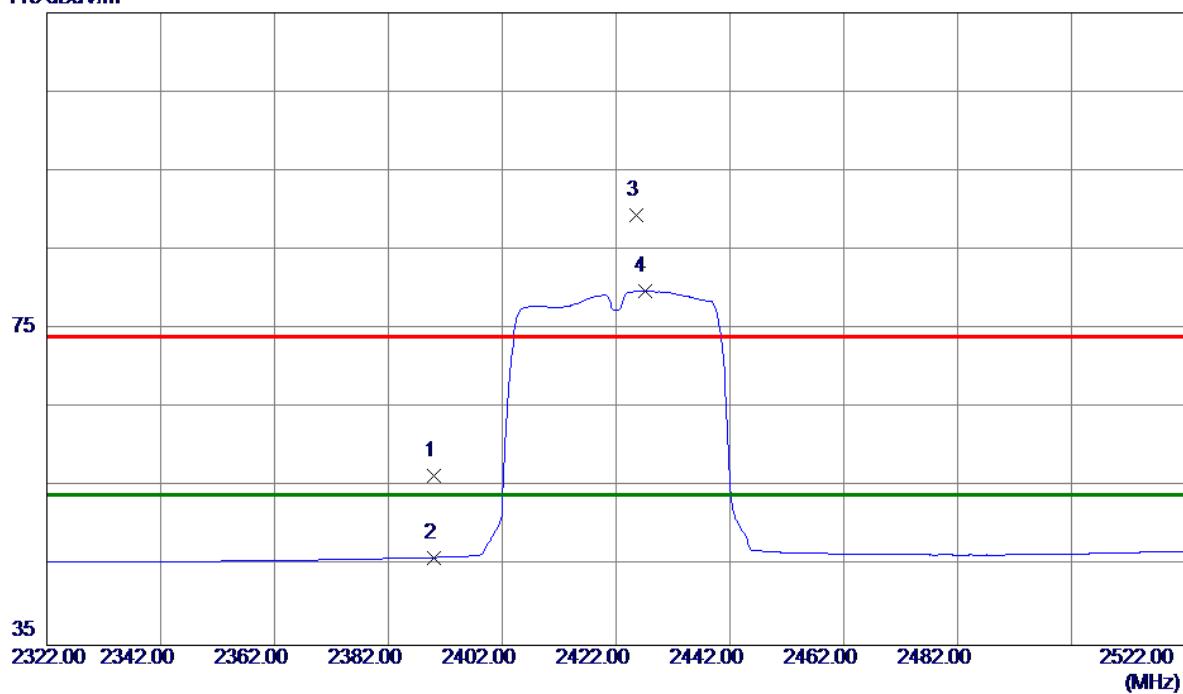
## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8400	38.59	15.25	53.84	74.00	-20.16	Peak	
2 *	9847.9940	30.62	15.25	45.87	54.00	-8.13	AVG	

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

**Vertical****115 dBuV/m**

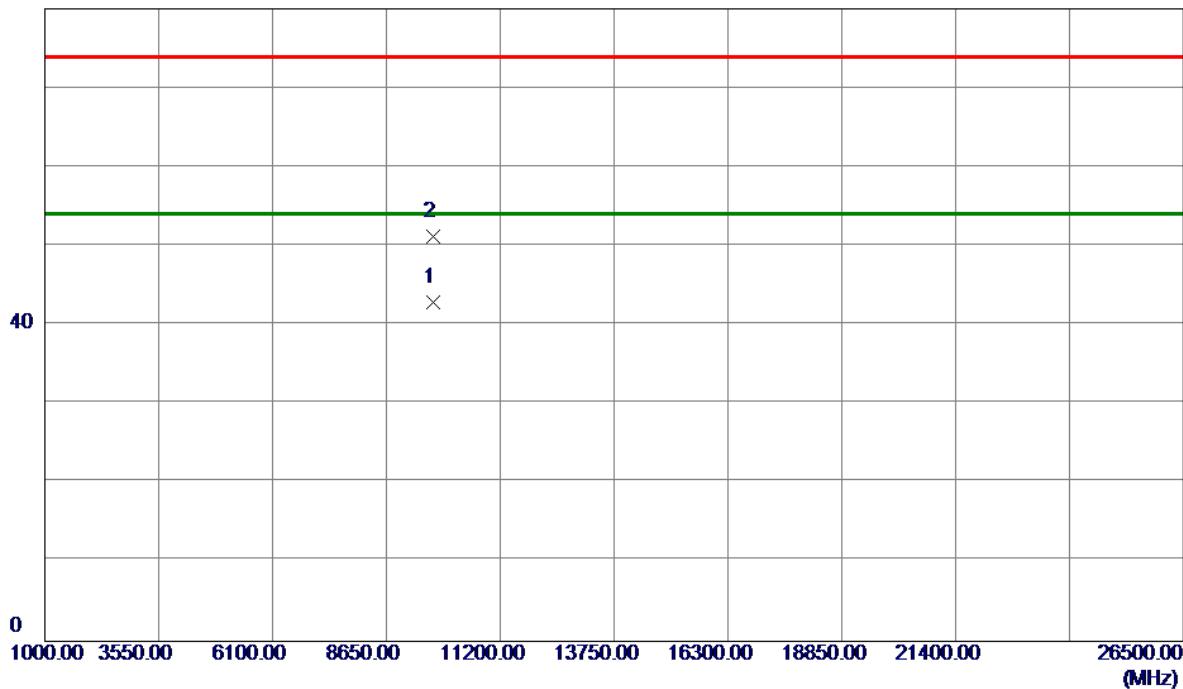
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	23.35	33.06	56.41	74.00	-17.59	Peak	
2	2390.0000	13.05	33.06	46.11	54.00	-7.89	AVG	
3	2425.6000	56.14	33.19	89.33	74.00	15.33	Peak	No Limit
4 *	2427.0000	46.62	33.20	79.82	54.00	25.82	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

## Vertical

80 dBuV/m



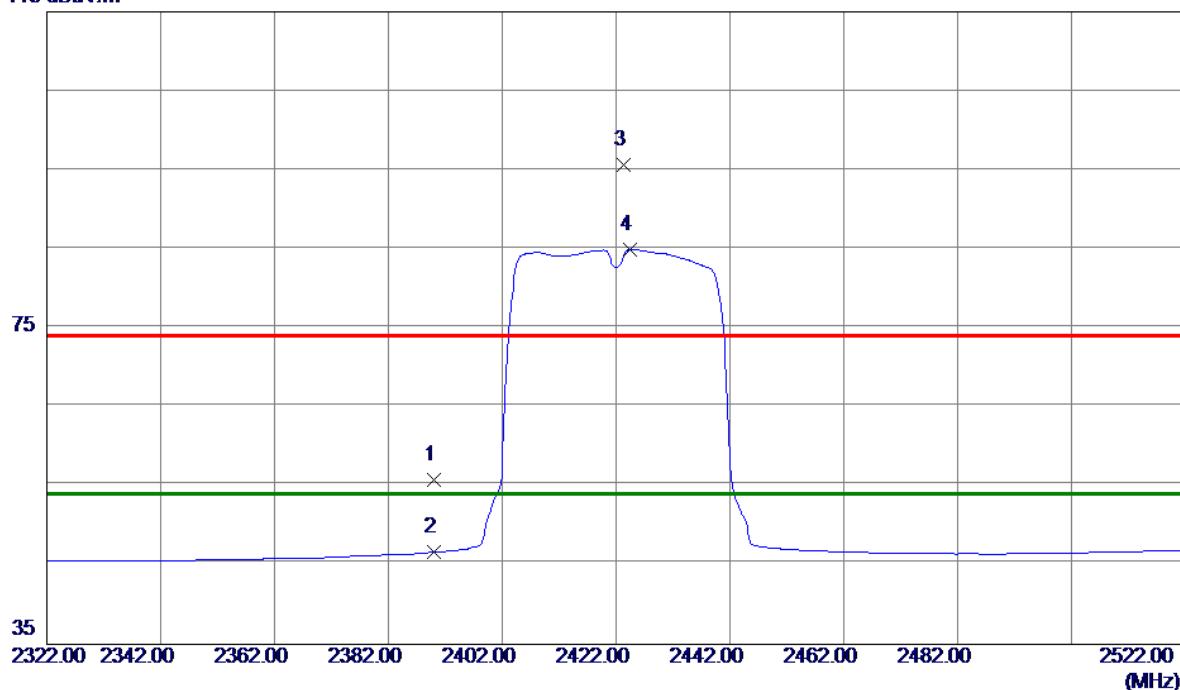
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9688.0660	27.76	15.13	42.89	54.00	-11.11	AVG	
2	9688.3200	36.12	15.13	51.25	74.00	-22.75	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

## Horizontal

115 dBuV/m



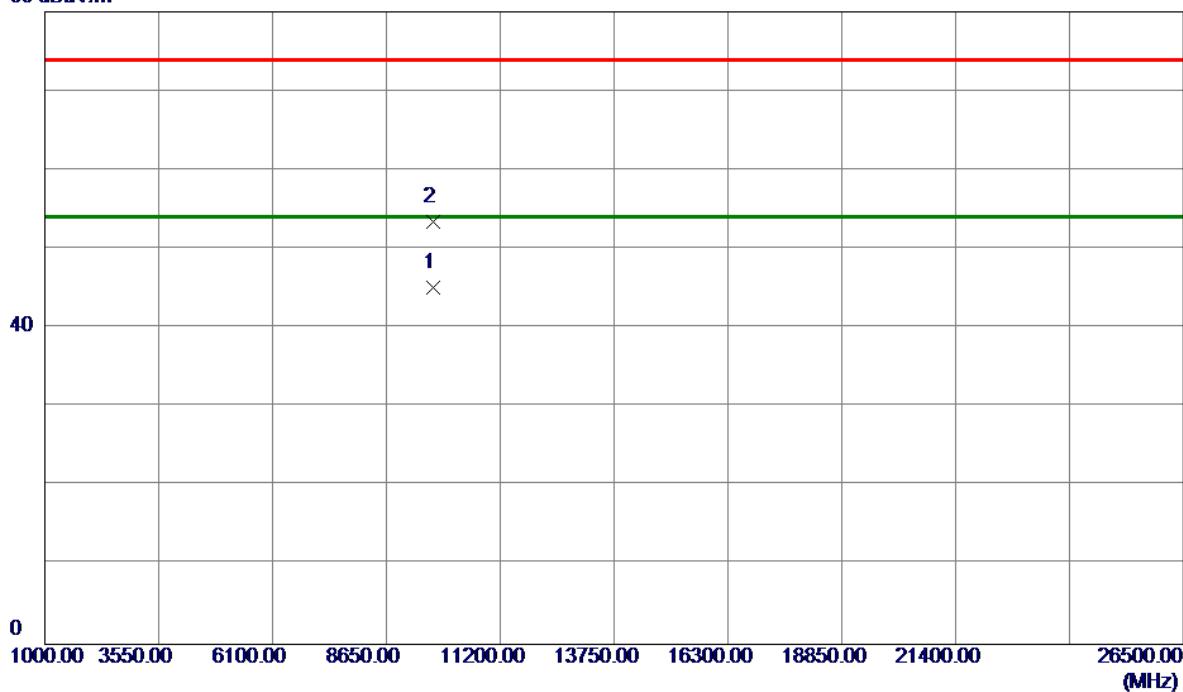
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.74	33.06	55.80	74.00	-18.20	Peak	
2	2390.0000	13.61	33.06	46.67	54.00	-7.33	AVG	
3	2423.4000	62.41	33.18	95.59	74.00	21.59	Peak	No Limit
4 *	2424.4000	51.68	33.19	84.87	54.00	30.87	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

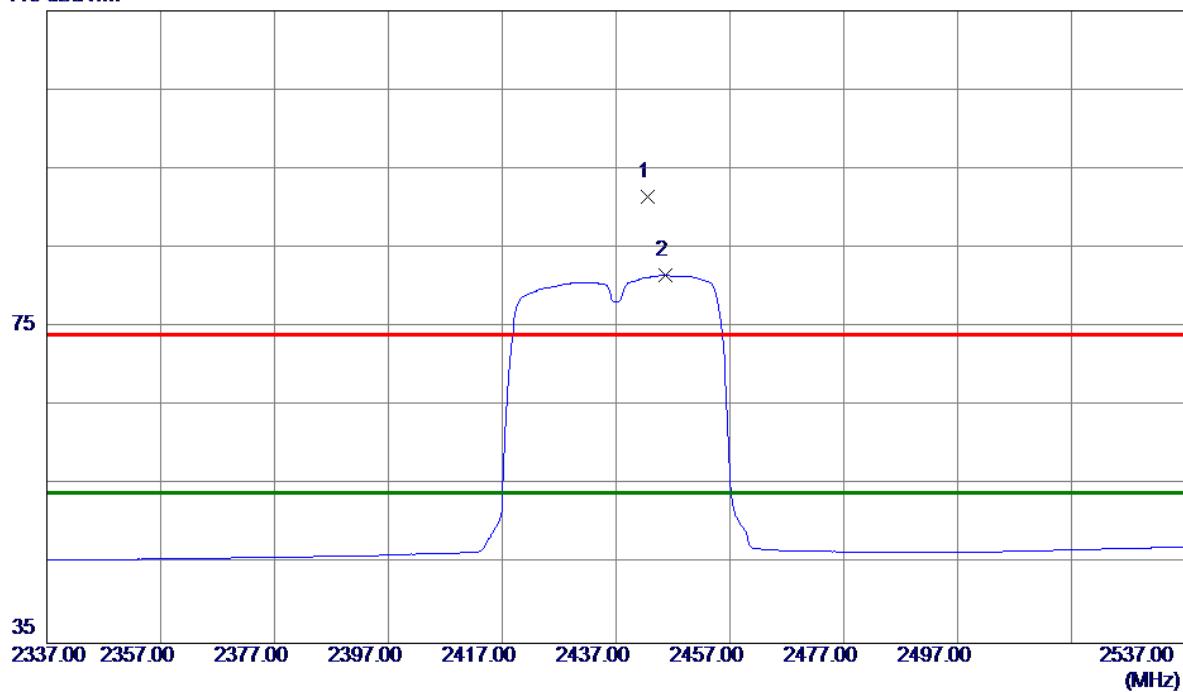
## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9688.0439	29.94	15.13	45.07	54.00	-8.93	AVG	
2	9688.0519	38.32	15.13	53.45	74.00	-20.55	Peak	

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

**Vertical****115 dBuV/m**

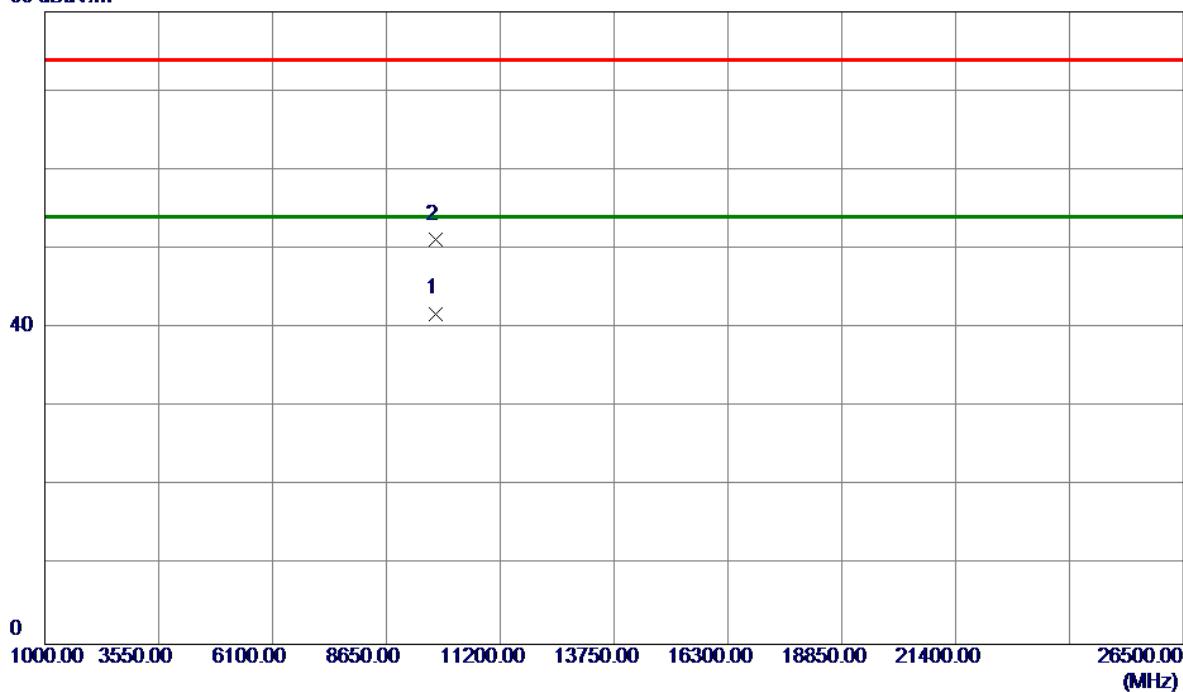
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2442.5000	58.18	33.25	91.43	74.00	17.43	Peak	No Limit
2 *	2445.6000	48.26	33.27	81.53	54.00	27.53	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

## Vertical

80 dBuV/m



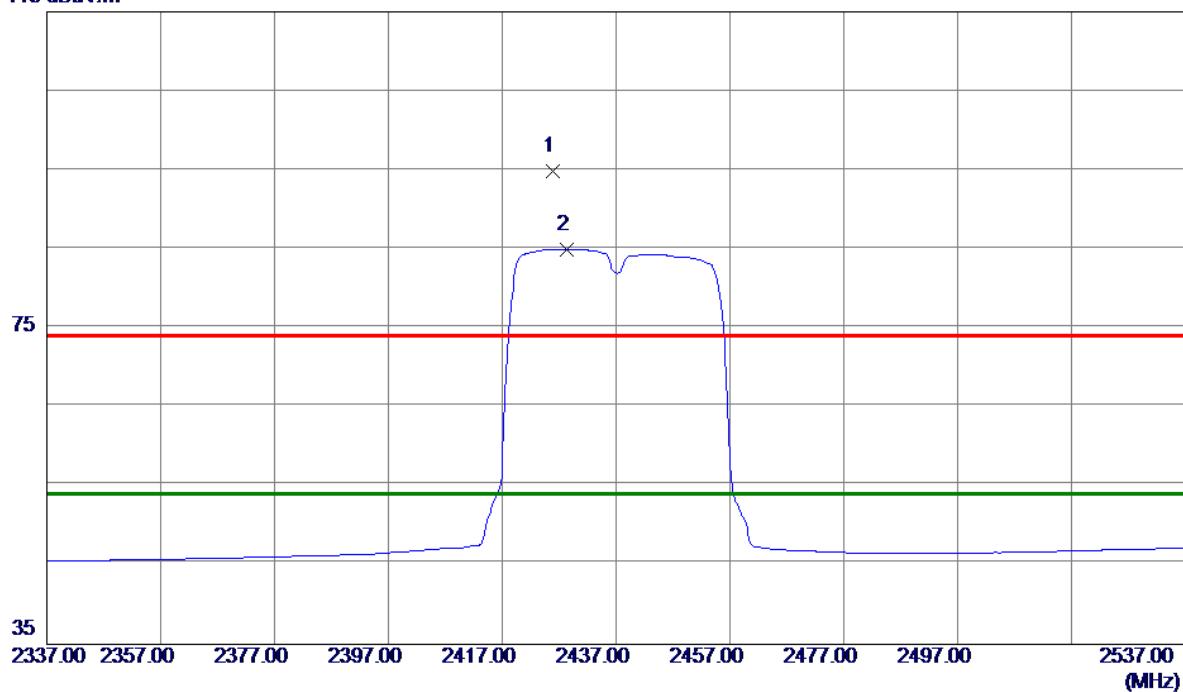
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9748.0730	26.67	15.17	41.84	54.00	-12.16	AVG	
2	9748.1050	36.01	15.17	51.18	74.00	-22.82	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

## Horizontal

115 dBuV/m



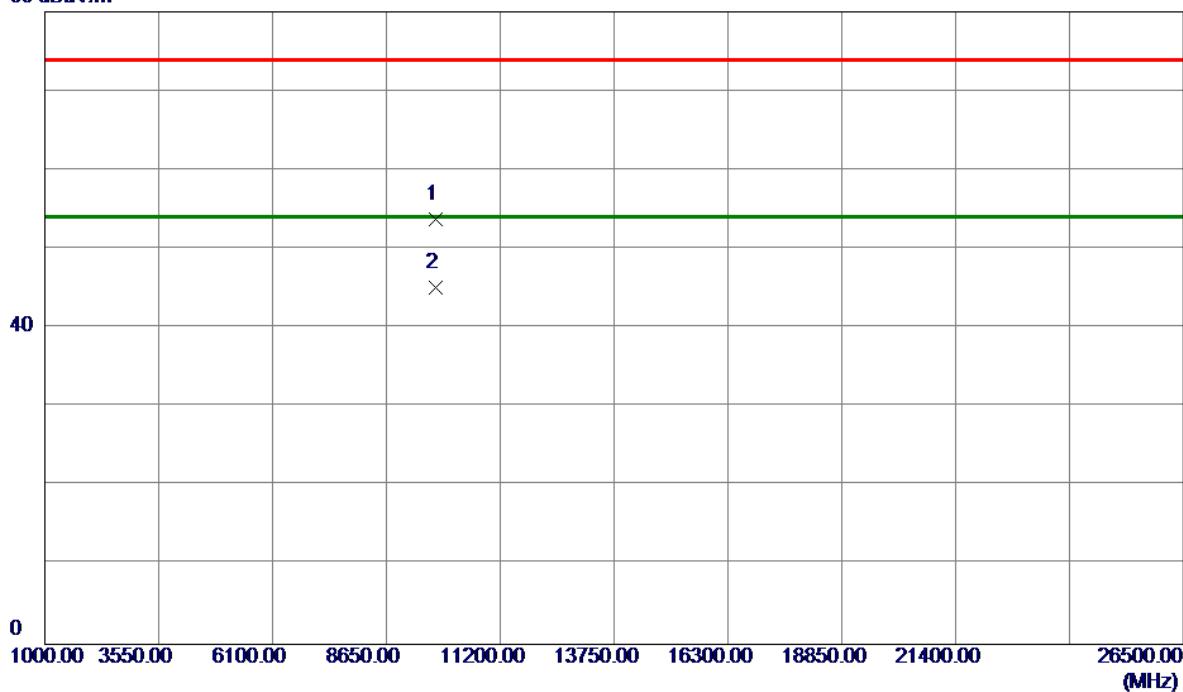
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2425.9000	61.72	33.19	94.91	74.00	20.91	Peak	No Limit
2 *	2428.4000	51.79	33.20	84.99	54.00	30.99	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

## Horizontal

80 dBuV/m



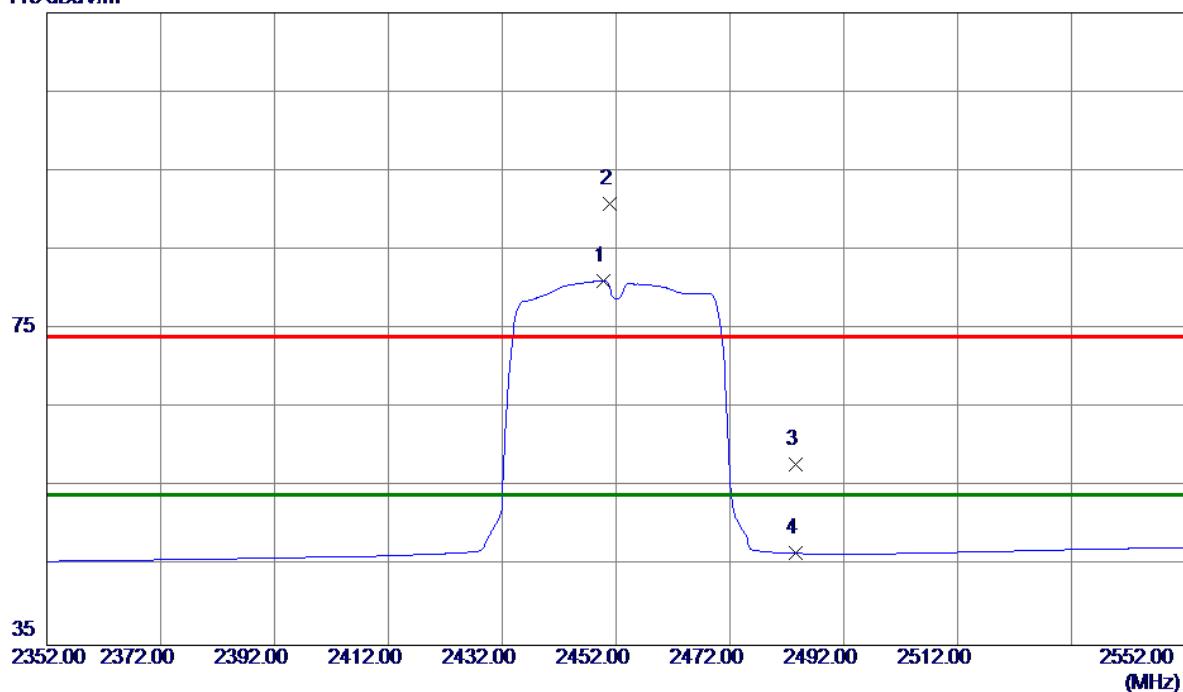
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.9349	38.56	15.17	53.73	74.00	-20.27	Peak	
2 *	9748.0199	29.89	15.17	45.06	54.00	-8.94	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

## Vertical

115 dBuV/m



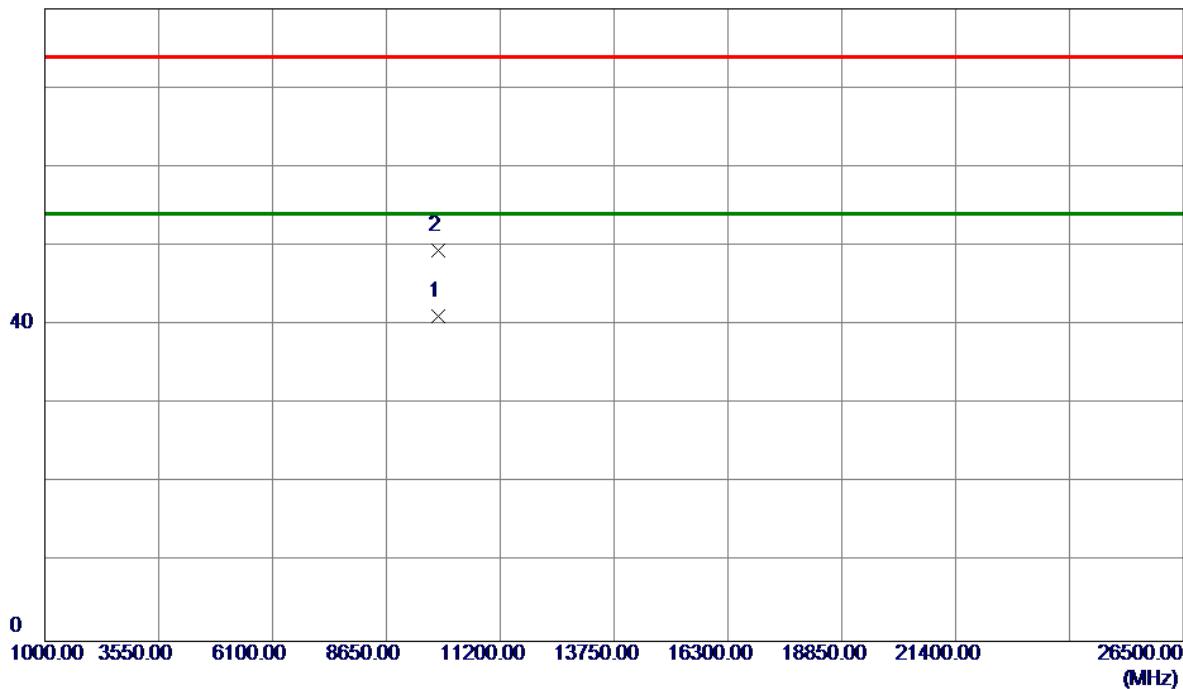
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Detector	Comment
1 *	2449.8000	47.80	33.28	81.08	54.00	27.08	AVG	No Limit
2	2450.9000	57.54	33.29	90.83	74.00	16.83	Peak	No Limit
3	2483.5000	24.54	33.41	57.95	74.00	-16.05	Peak	
4	2483.5000	13.23	33.41	46.64	54.00	-7.36	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

## Vertical

80 dBuV/m



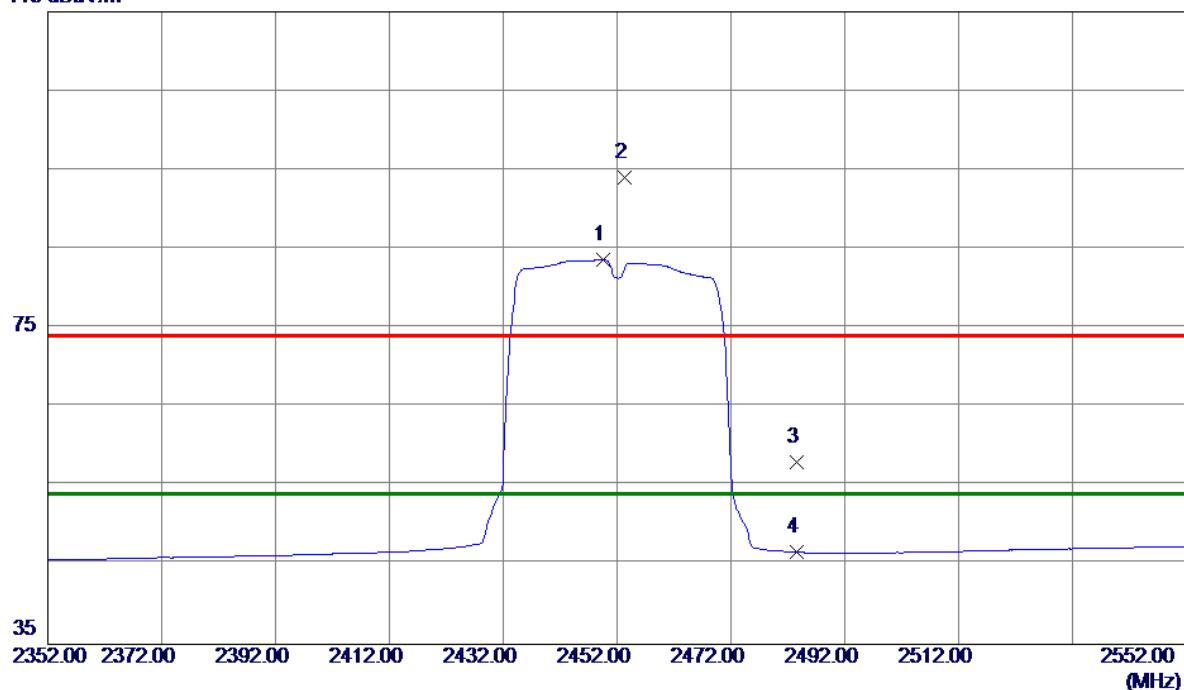
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9808.1330	25.88	15.22	41.10	54.00	-12.90	AVG	
2	9808.1710	34.24	15.22	49.46	74.00	-24.54	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

## Horizontal

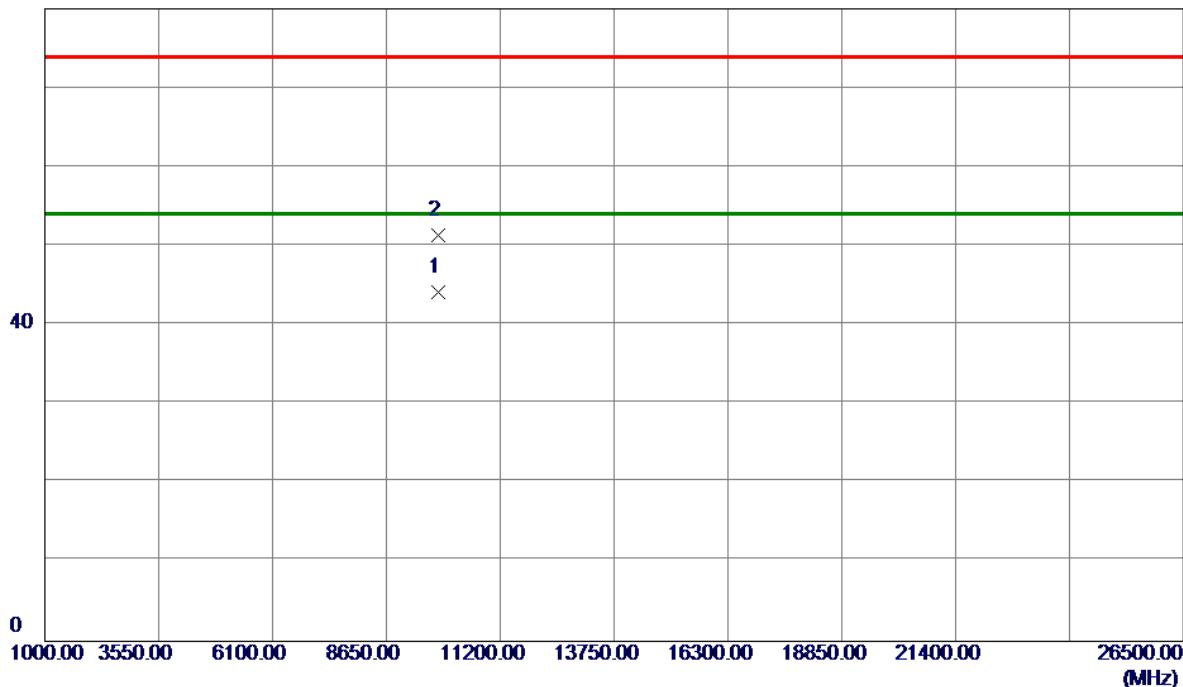
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2449.6000	50.32	33.28	83.60	54.00	29.60	AVG	No Limit
2	2453.3000	60.74	33.29	94.03	74.00	20.03	Peak	No Limit
3	2483.5000	24.60	33.41	58.01	74.00	-15.99	Peak	
4	2483.5000	13.25	33.41	46.66	54.00	-7.34	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

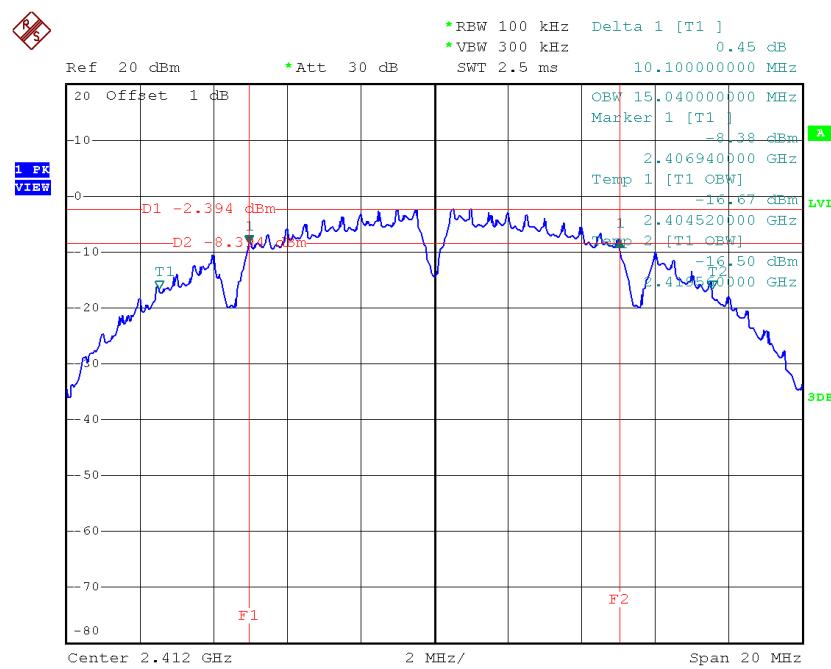
**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9808.0300	28.93	15.22	44.15	54.00	-9.85	AVG	
2	9808.0930	36.08	15.22	51.30	74.00	-22.70	Peak	

## APPENDIX E - BANDWIDTH

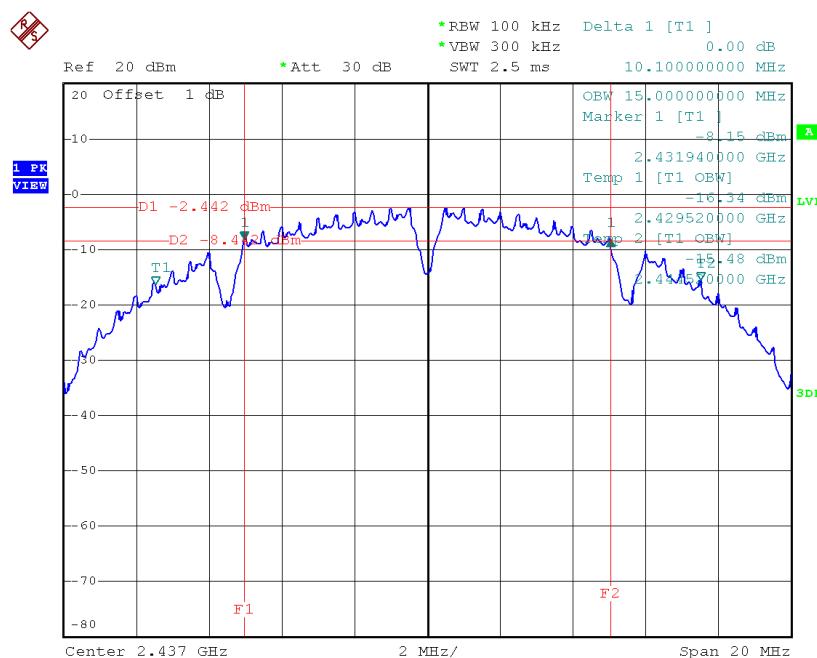
**Test Mode : TX B Mode\_CH01/06/11**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	15.04	500	Complies
2437	10.10	15.00	500	Complies
2462	10.10	15.00	500	Complies

**TX CH01**


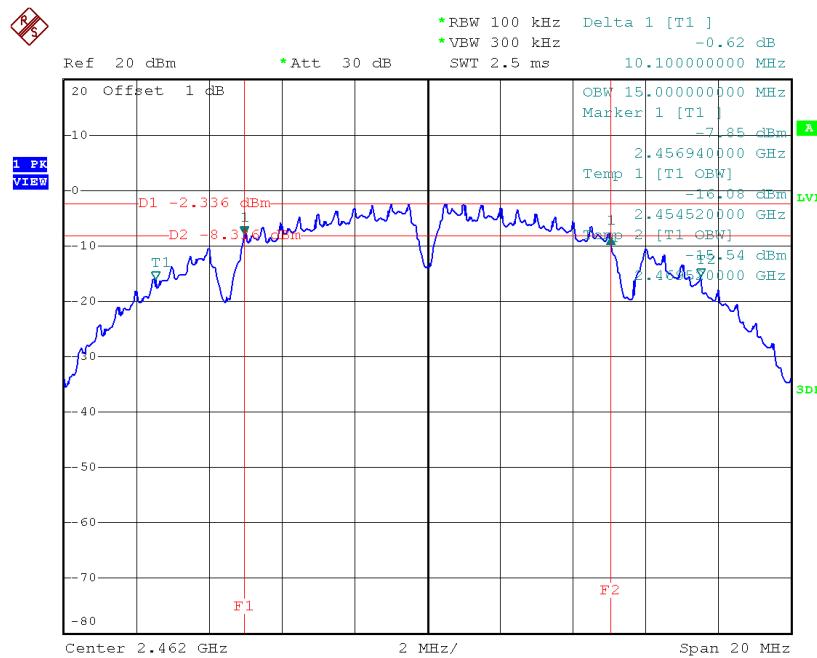
Date: 6.FEB.2018 09:59:14

## TX CH06



Date: 6.FEB.2018 10:03:17

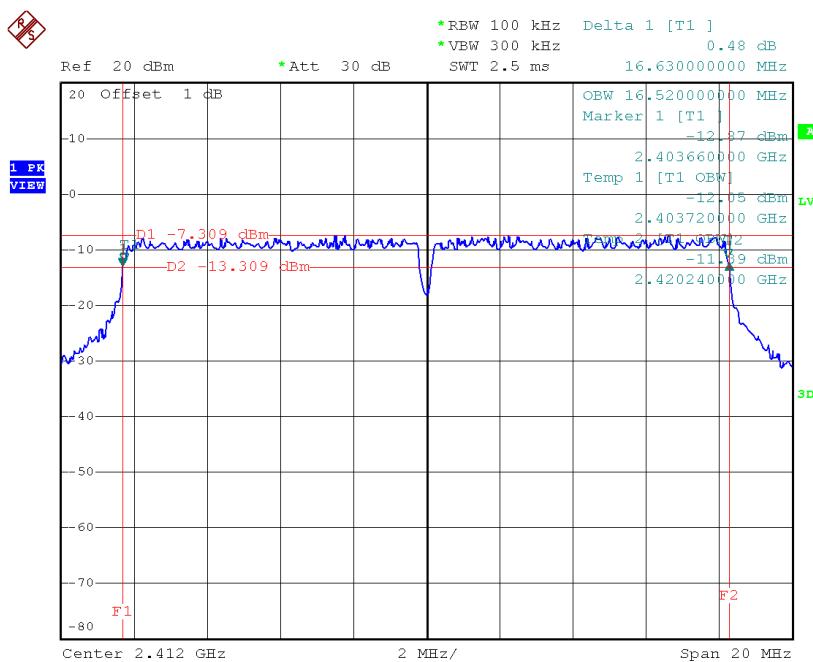
## TX CH11



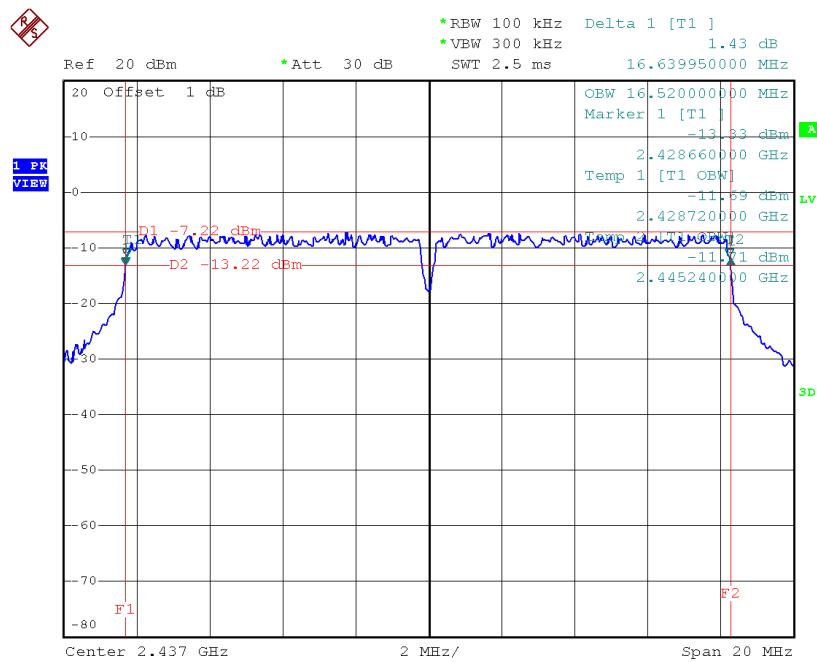
Date: 6.FEB.2018 10:05:10

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

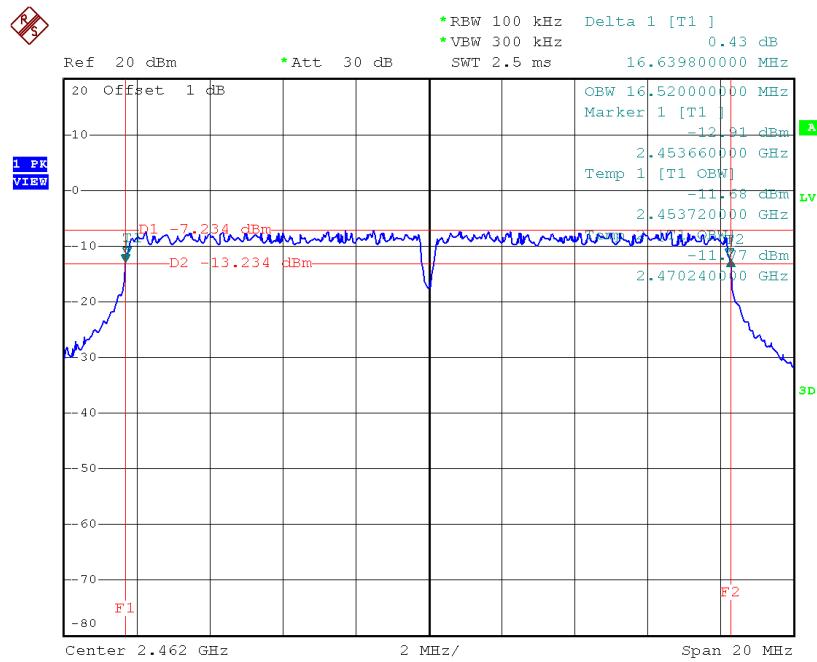
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.63	16.52	500	Complies
2437	16.64	16.52	500	Complies
2462	16.64	16.52	500	Complies

**TX CH01**


Date: 6.FEB.2018 10:07:51

**TX CH06**

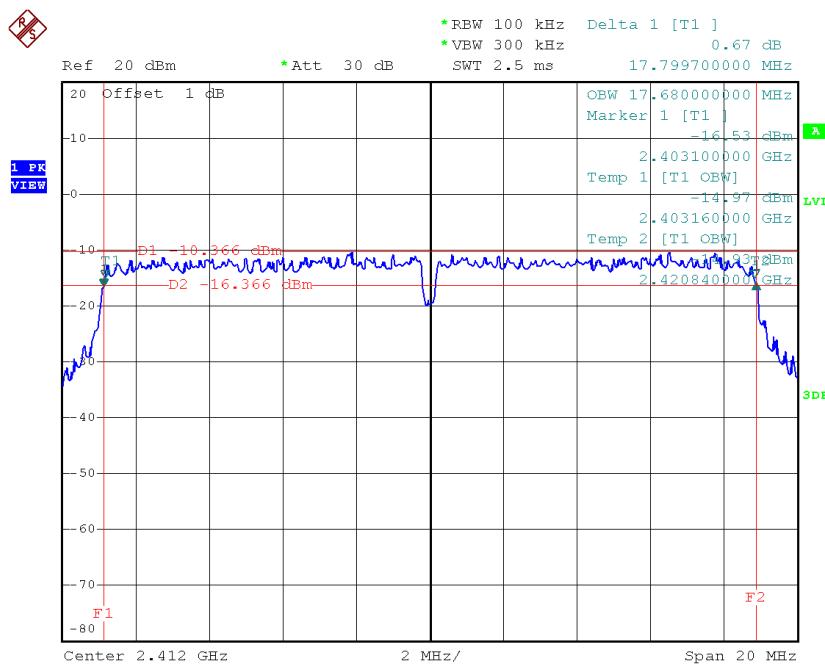
Date: 6.FEB.2018 10:09:22

**TX CH11**

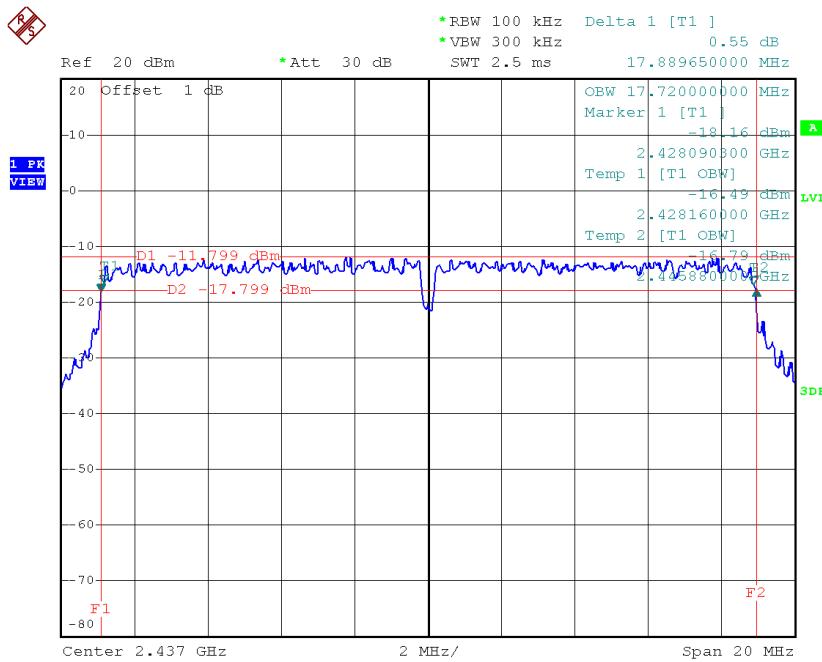
Date: 6.FEB.2018 10:10:45

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

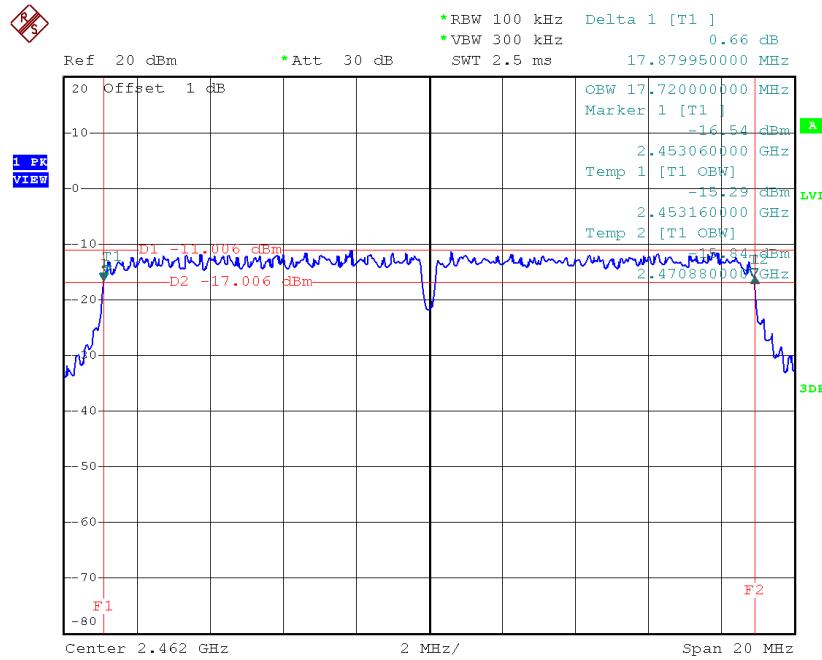
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.80	17.68	500	Complies
2437	17.89	17.72	500	Complies
2462	17.88	17.72	500	Complies

**TX CH01**


Date: 6.FEB.2018 10:12:41

**TX CH06**

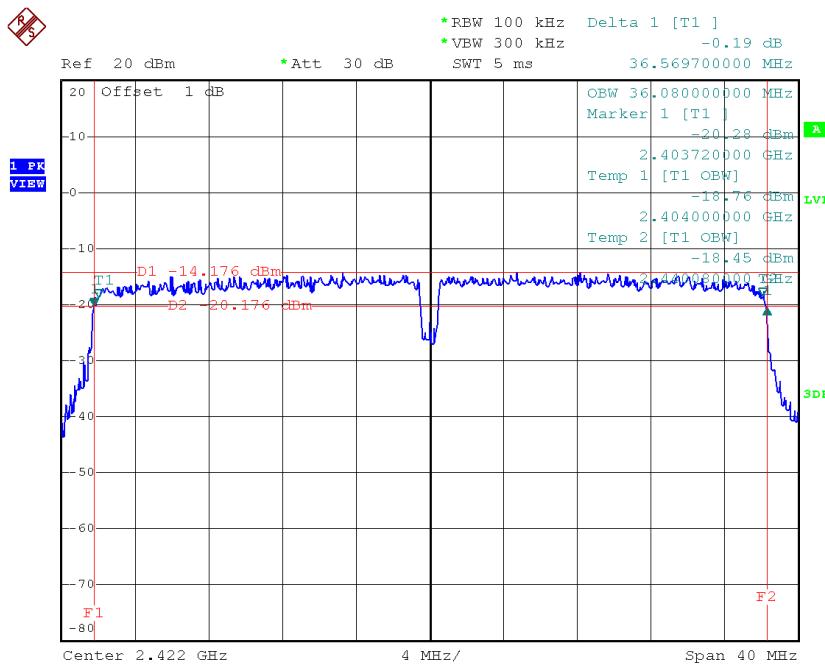
Date: 6.FEB.2018 10:15:01

**TX CH11**

Date: 6.FEB.2018 10:16:48

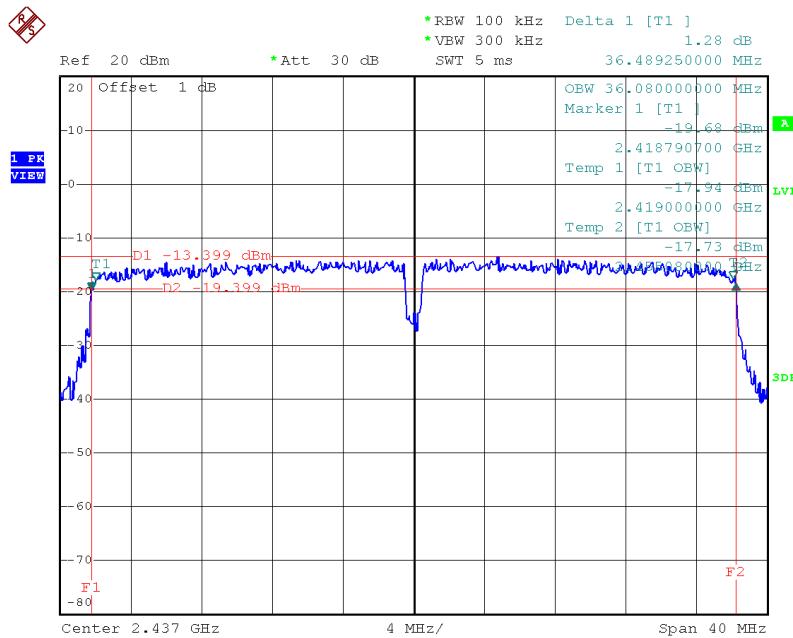
**Test Mode : TX N-40MHz Mode\_CH03/06/09**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.57	36.08	500	Complies
2437	36.49	36.08	500	Complies
2452	36.60	36.16	500	Complies

**TX CH03**


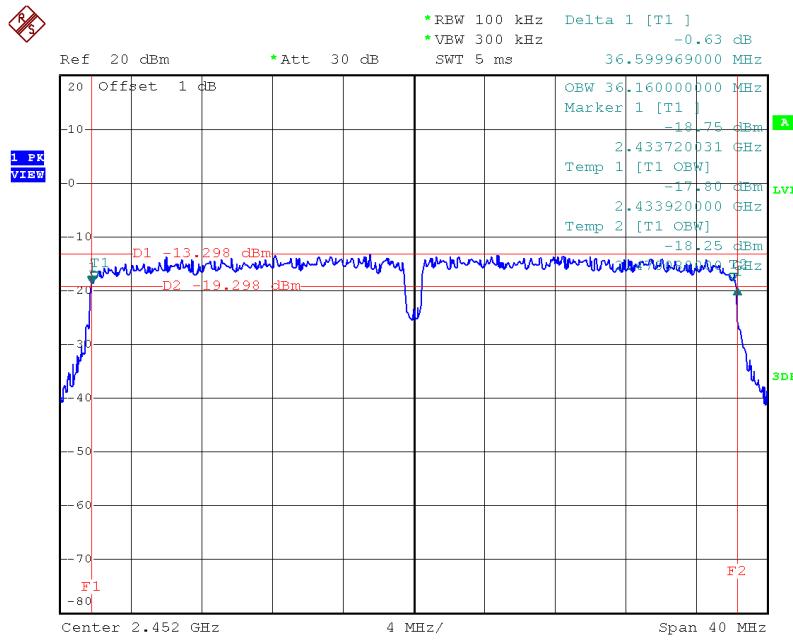
Date: 6.FEB.2018 10:19:11

## TX CH06



Date: 6.FEB.2018 10:22:28

## TX CH09



Date: 6.FEB.2018 10:23:53

## APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

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

Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	11.51	30.00	1.00	Complies
2437	11.72	30.00	1.00	Complies
2462	11.77	30.00	1.00	Complies

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

Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.89	30.00	1.00	Complies
2437	19.64	30.00	1.00	Complies
2462	19.69	30.00	1.00	Complies

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

Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.08	30.00	1.00	Complies
2437	16.47	30.00	1.00	Complies
2462	15.92	30.00	1.00	Complies

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

Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	15.18	30.00	1.00	Complies
2437	15.27	30.00	1.00	Complies
2462	15.01	30.00	1.00	Complies

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

Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.66	30.00	1.00	Complies
2437	18.92	30.00	1.00	Complies
2462	18.50	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1				
Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.49	30.00	1.00	Complies
2437	15.32	30.00	1.00	Complies
2452	15.65	30.00	1.00	Complies

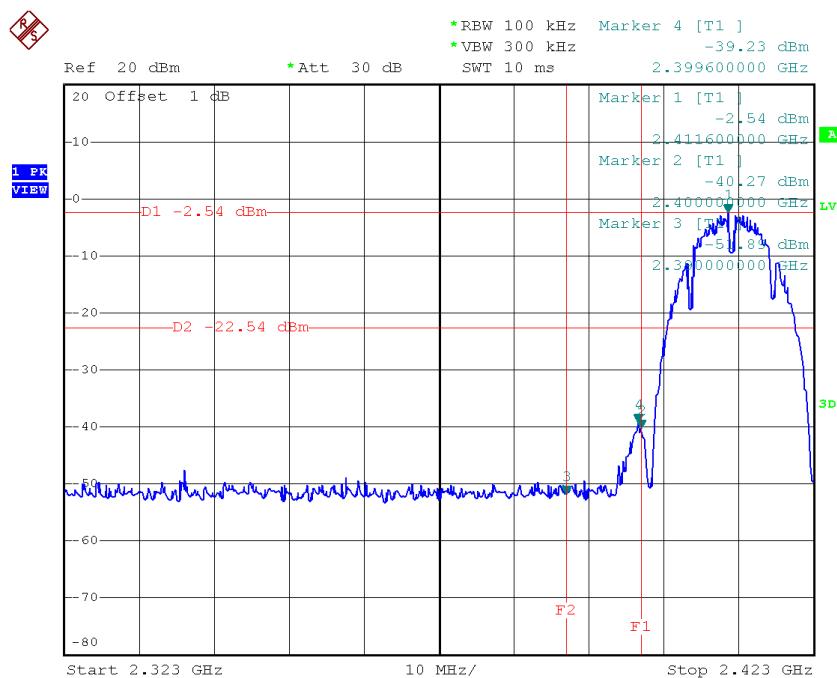
Test Mode :TX N40 Mode_CH03/06/09_ANT 2				
Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.39	30.00	1.00	Complies
2437	15.58	30.00	1.00	Complies
2452	15.15	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total				
Frequency (MHz)	Peak Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.45	30.00	1.00	Complies
2437	18.46	30.00	1.00	Complies
2452	18.42	30.00	1.00	Complies

## APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

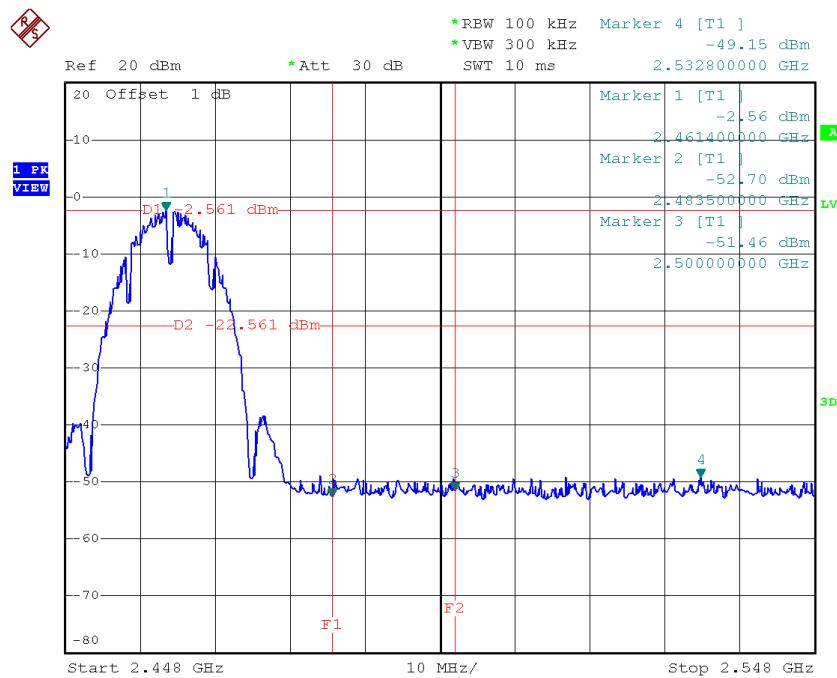
**Test Mode :** TX B Mode\_ANT 1

### TX B mode CH01



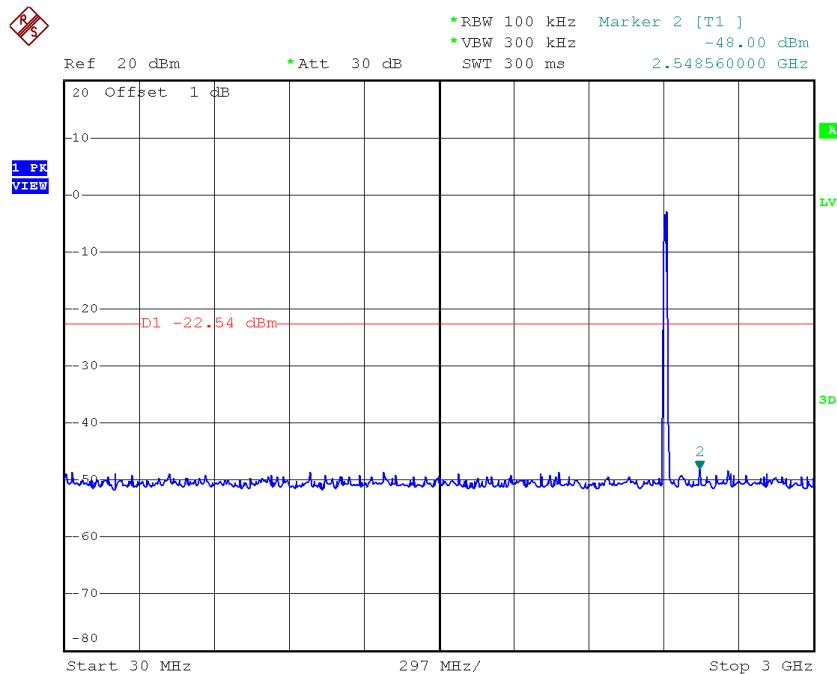
Date: 6.FEB.2018 09:59:22

### TX B mode CH11

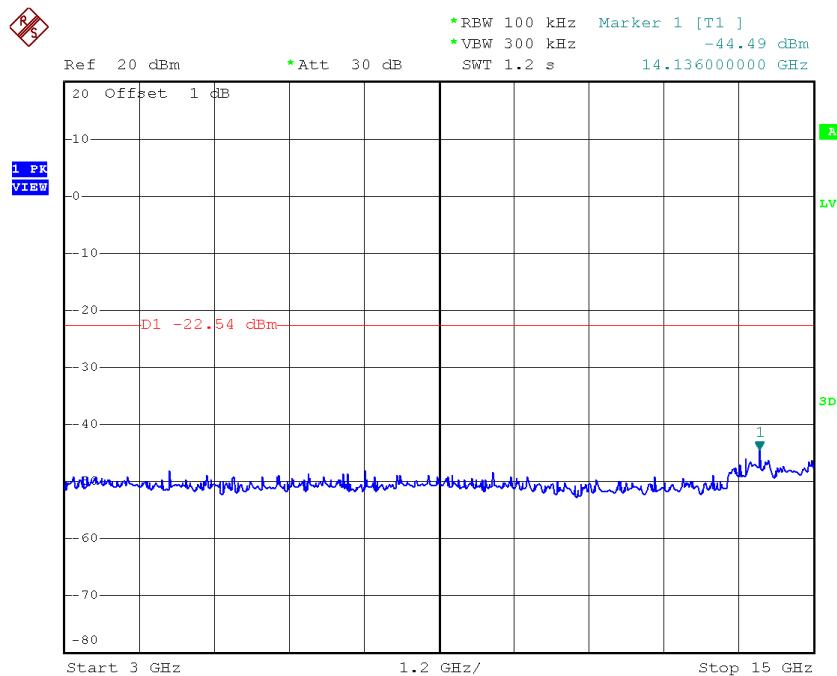


Date: 6.FEB.2018 10:05:18

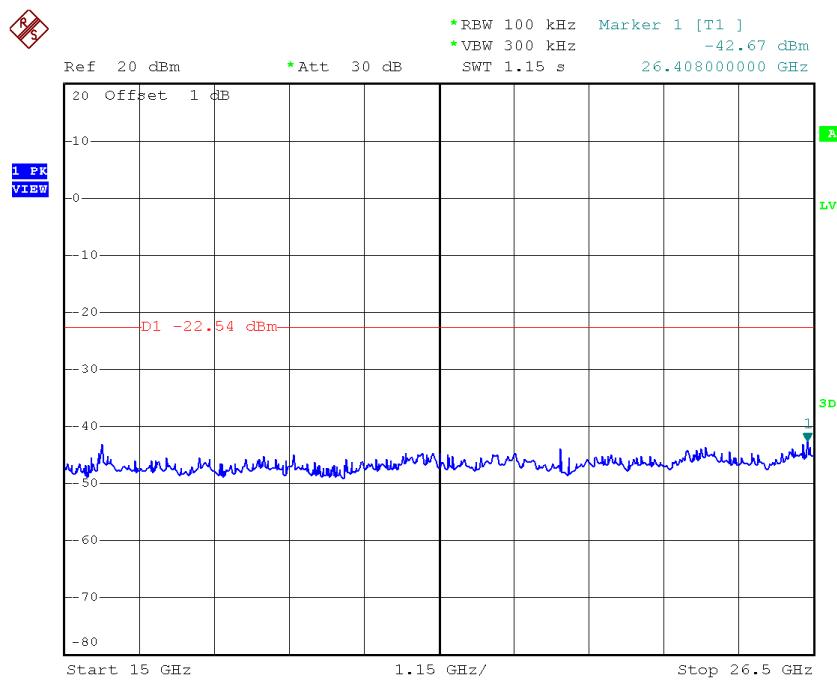
## TX B mode CH01 (10 Harmonic of the frequency)



Date: 6.FEB.2018 09:59:36

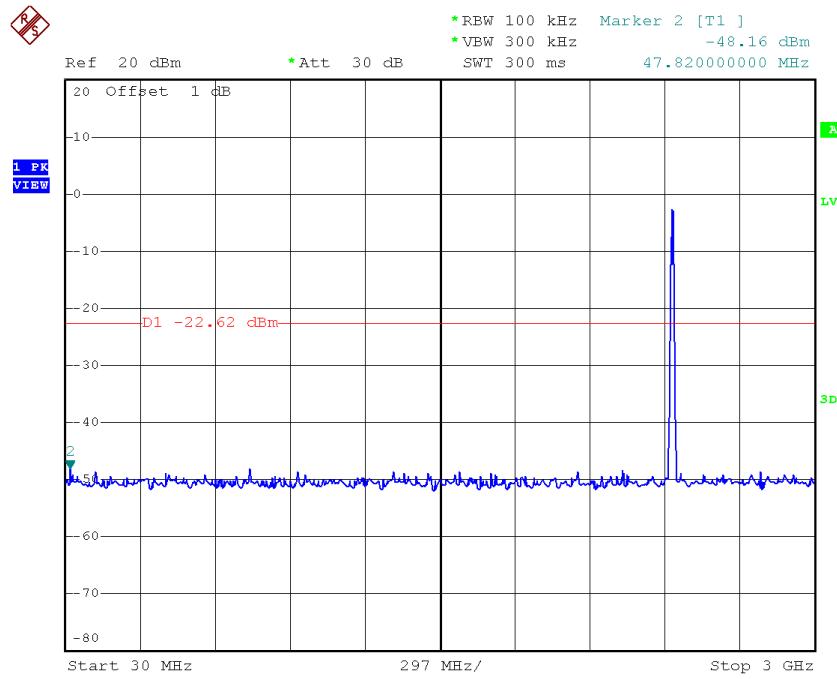


Date: 6.FEB.2018 09:59:44

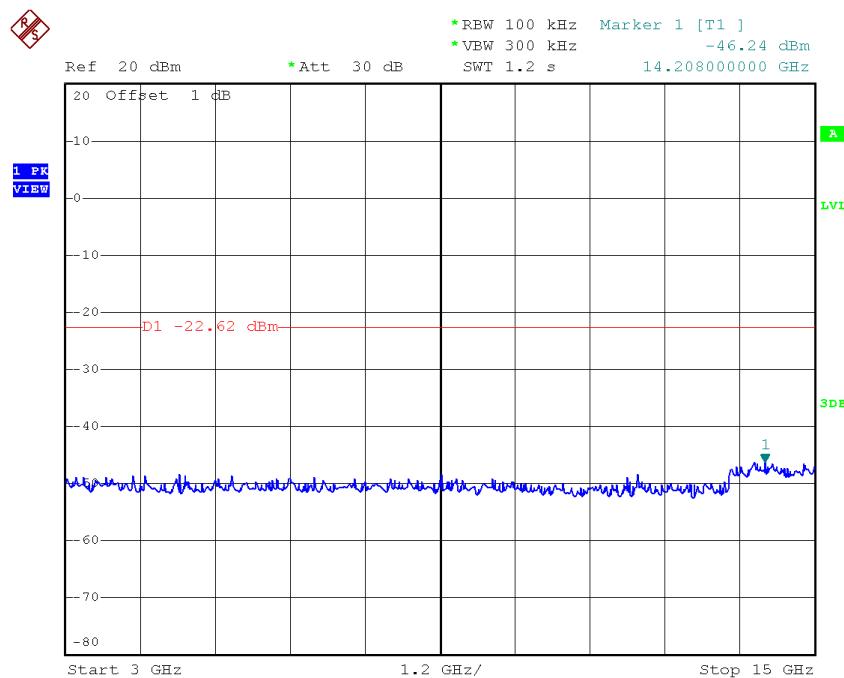


Date: 6.FEB.2018 09:59:52

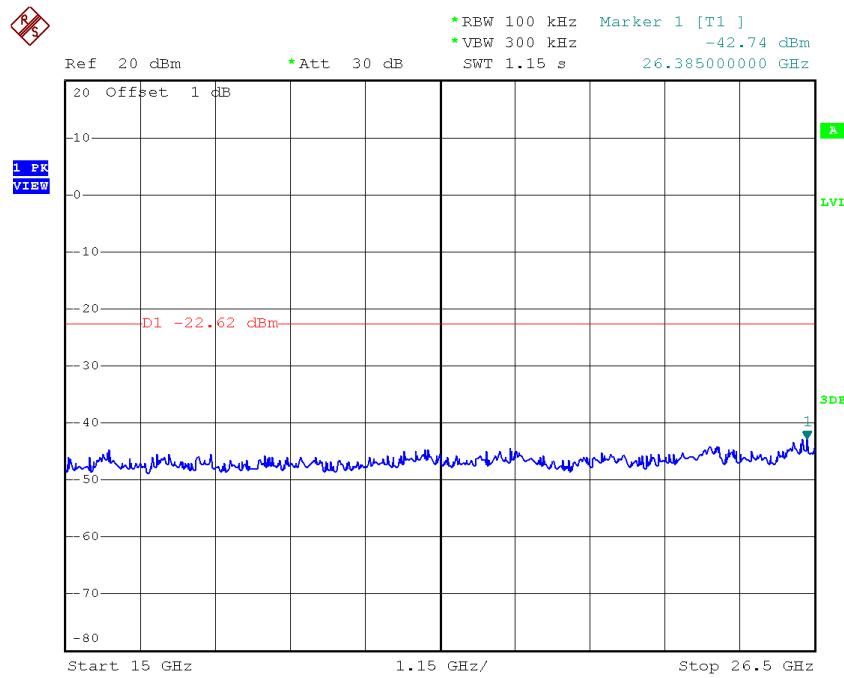
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:03:39

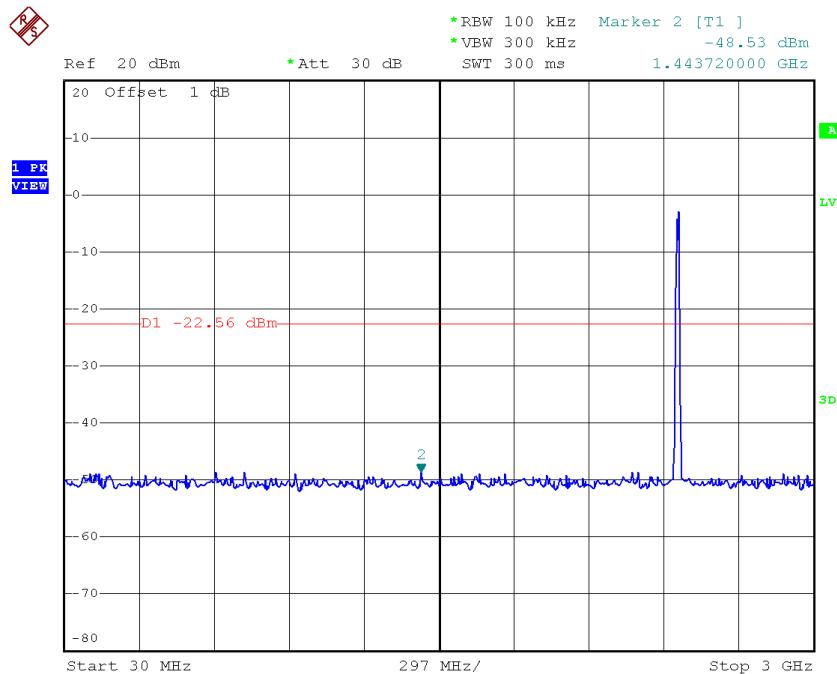


Date: 6.FEB.2018 10:03:48

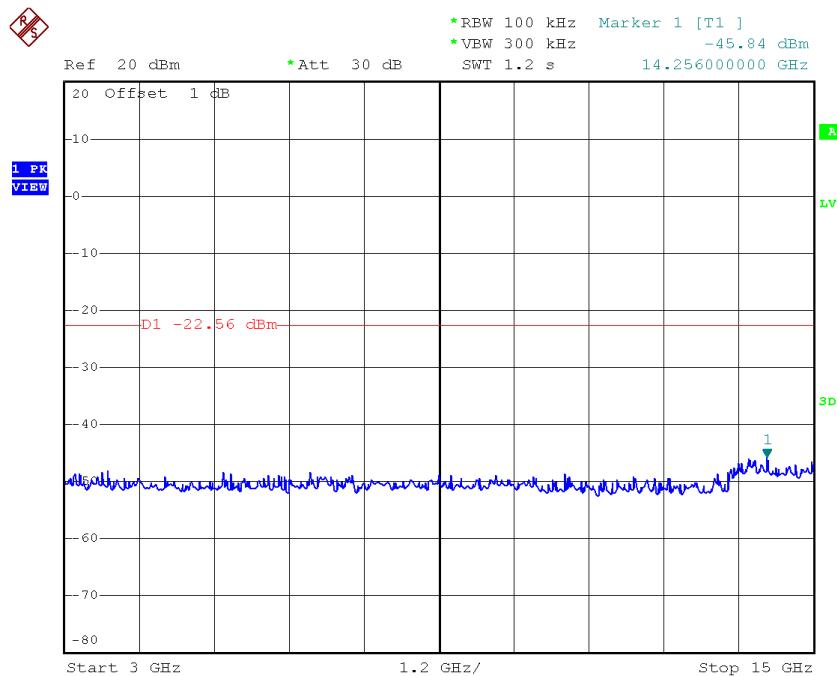


Date: 6.FEB.2018 10:03:56

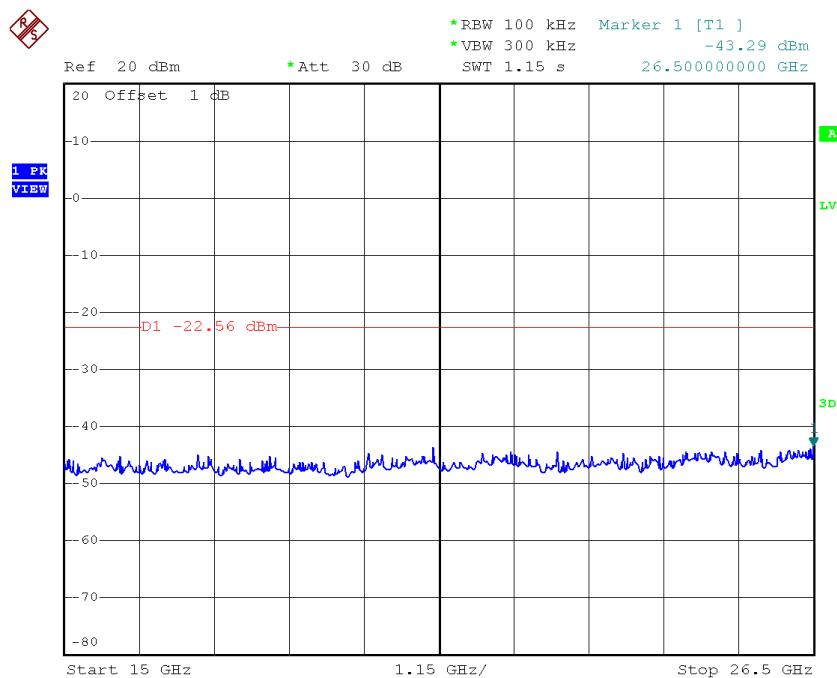
## TX B mode CH11 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:05:32



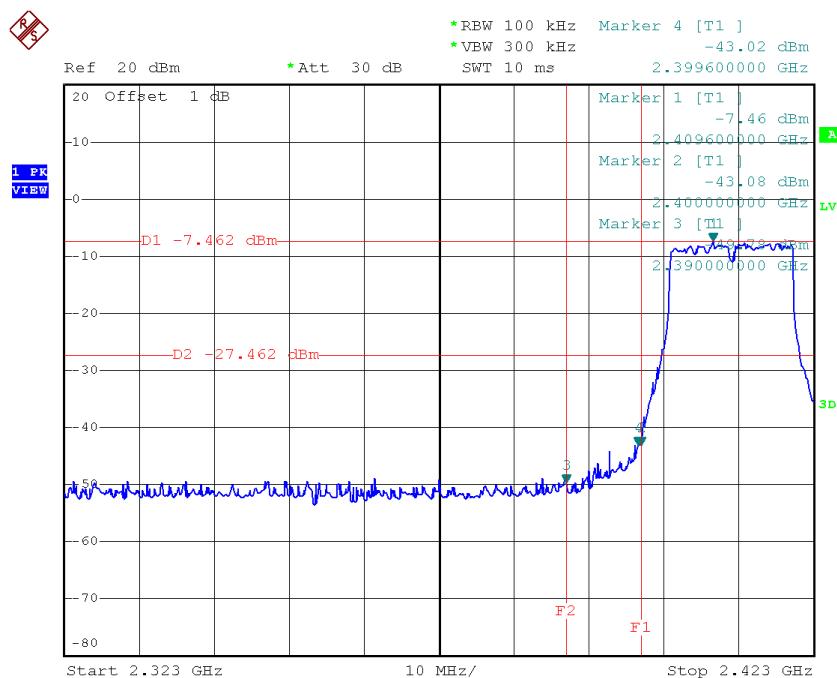
Date: 6.FEB.2018 10:05:41



Date: 6.FEB.2018 10:05:49

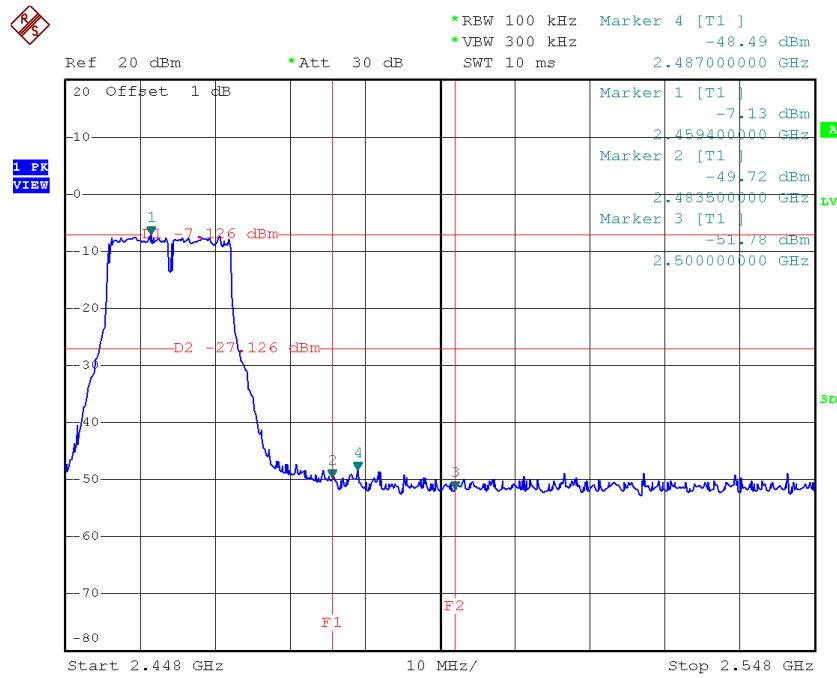
**Test Mode : TX G Mode\_ANT 1**

### TX G mode CH01



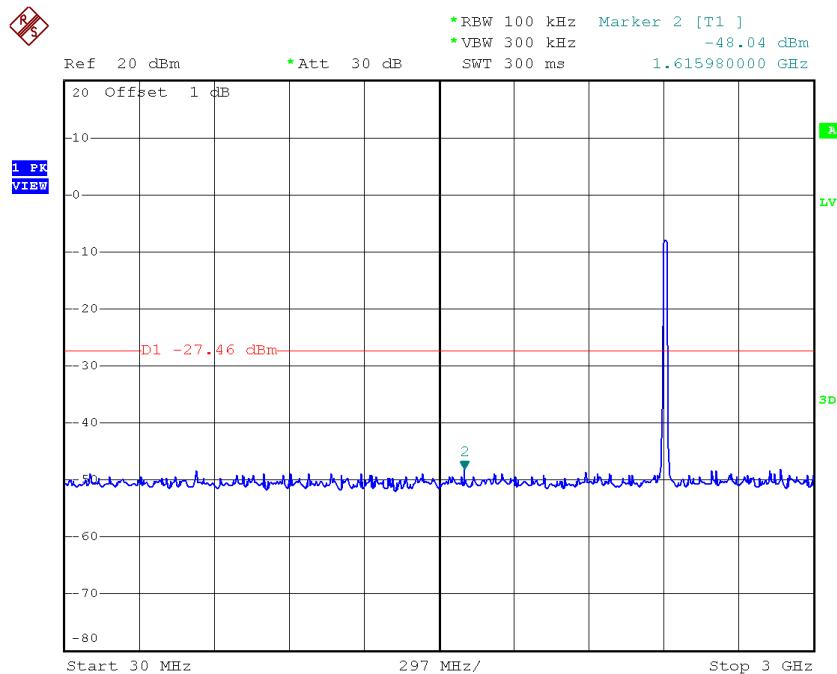
Date: 6.FEB.2018 10:08:00

### TX G mode CH11

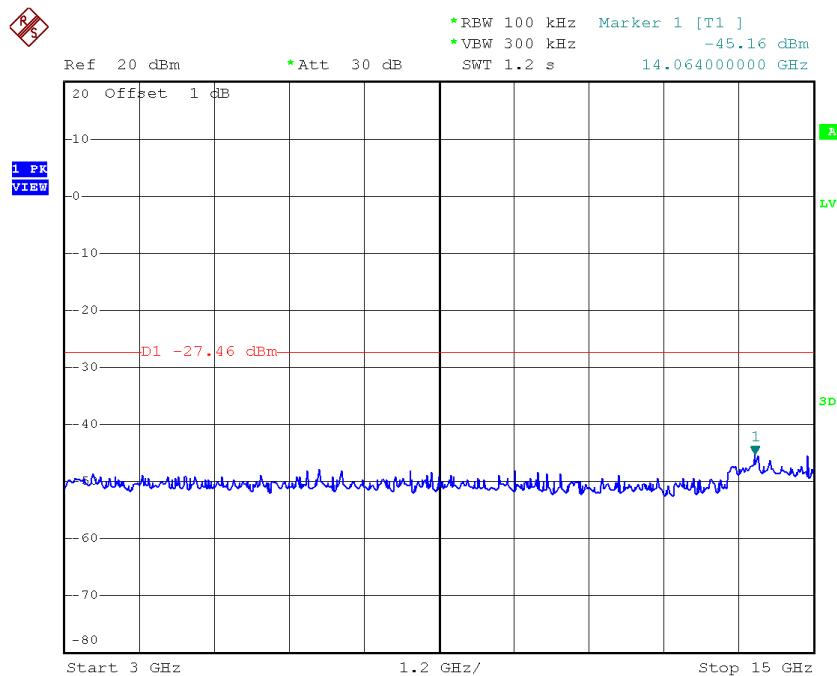


Date: 6.FEB.2018 10:10:53

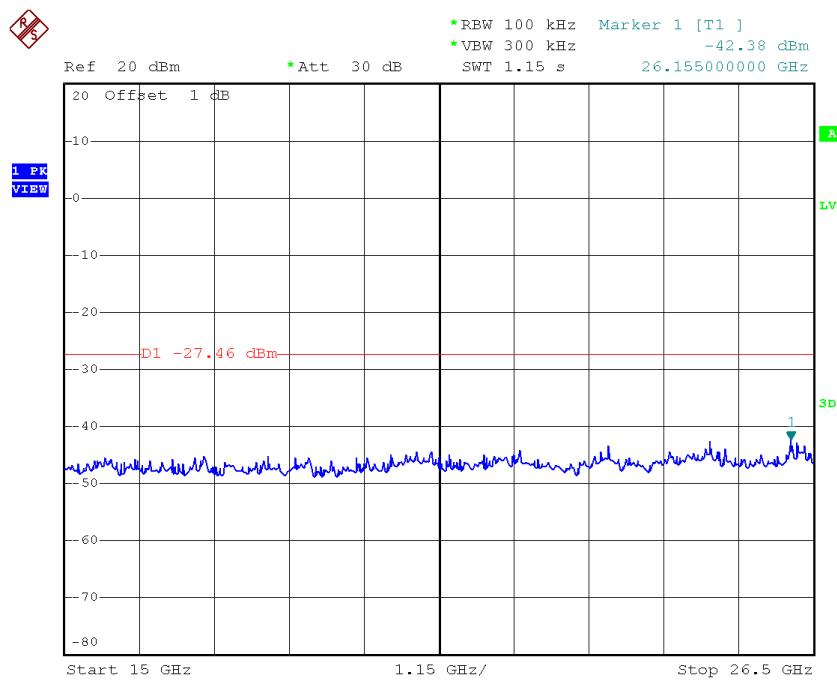
## TX G mode CH01 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:08:13

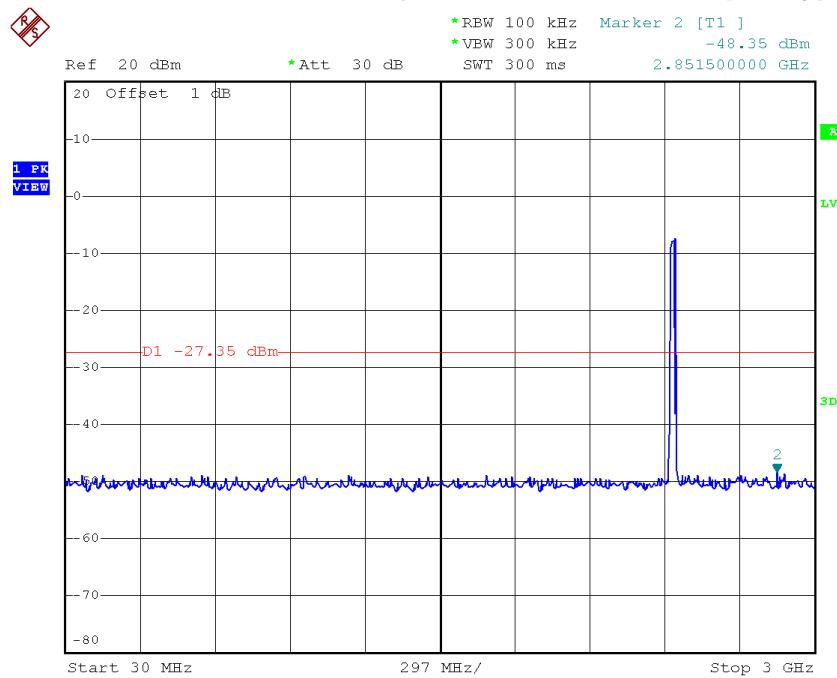


Date: 6.FEB.2018 10:08:22

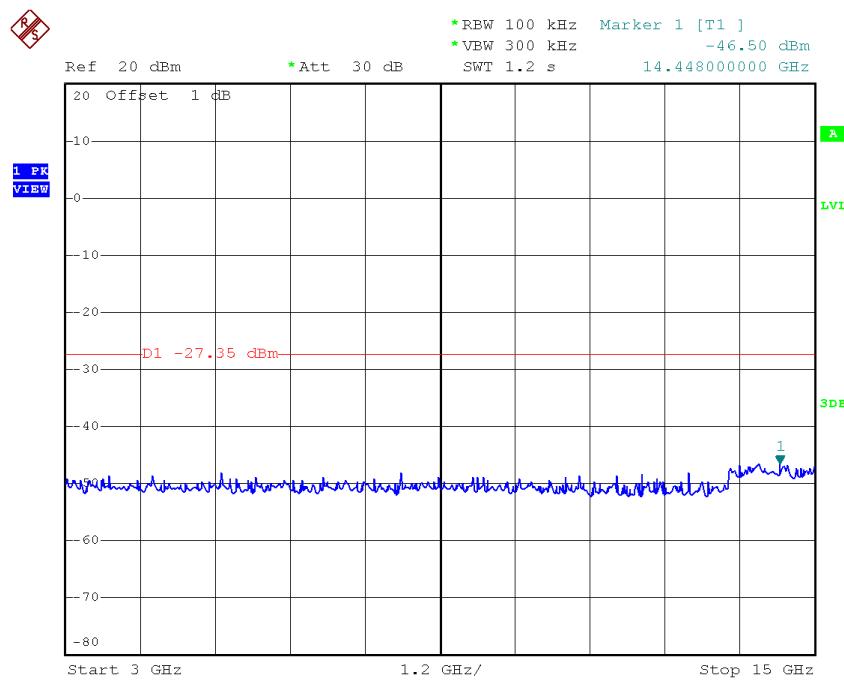


Date: 6.FEB.2018 10:08:30

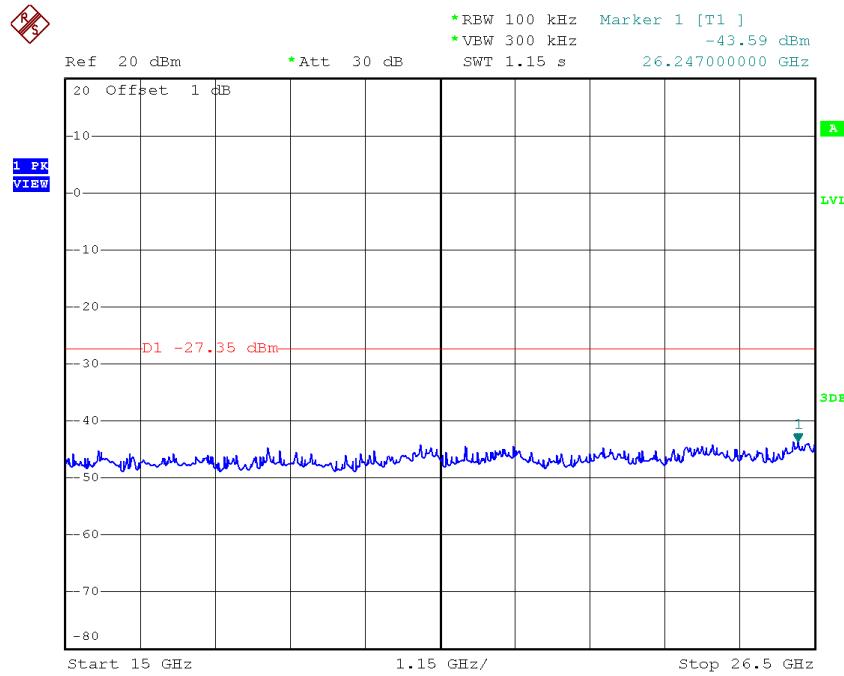
### TX G mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:09:44

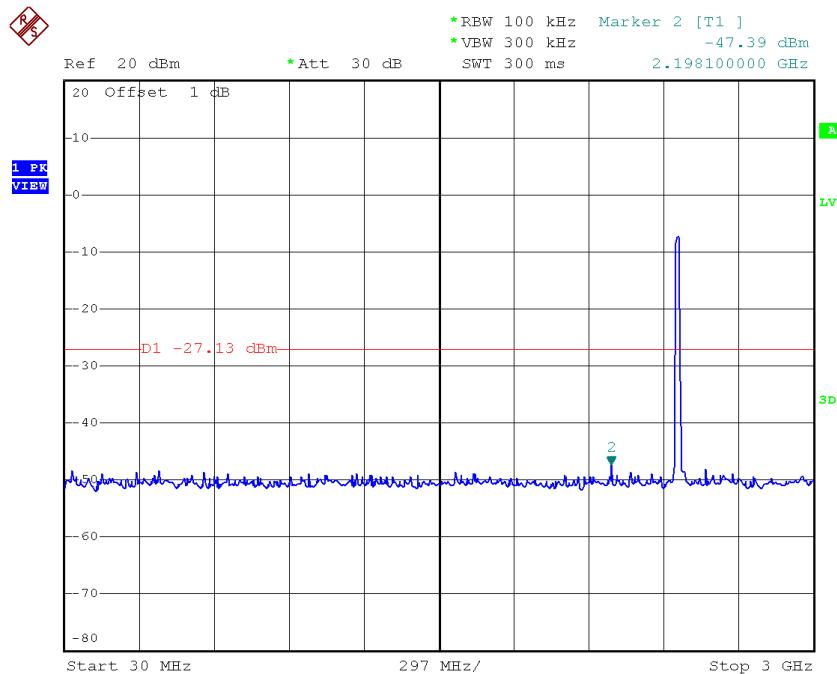


Date: 6.FEB.2018 10:09:53

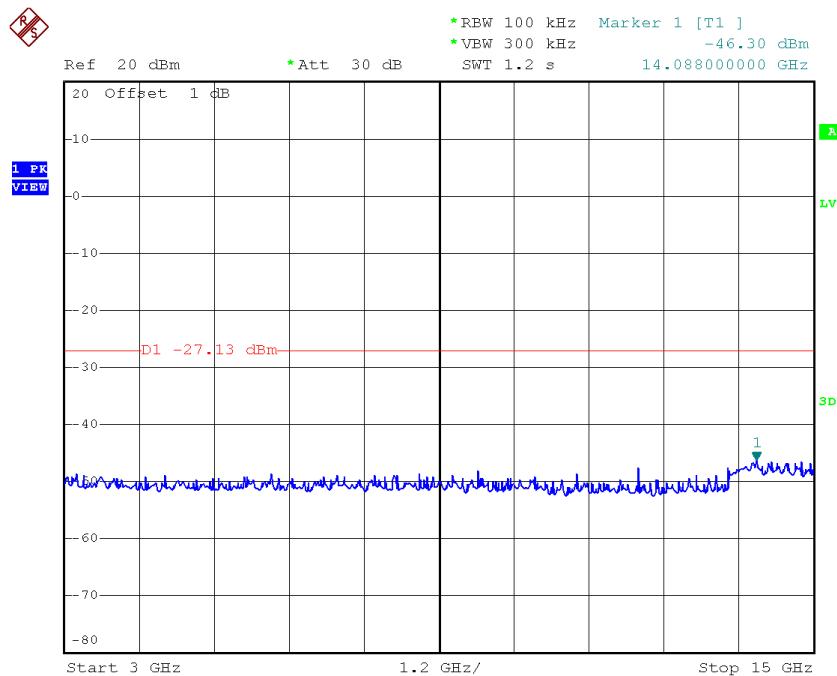


Date: 6.FEB.2018 10:10:01

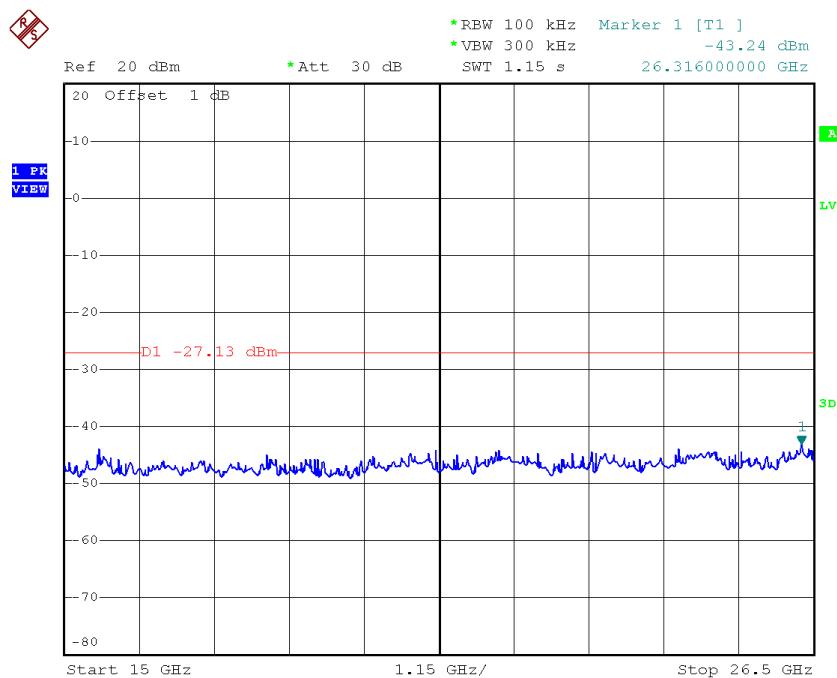
## TX G mode CH11 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:11:07



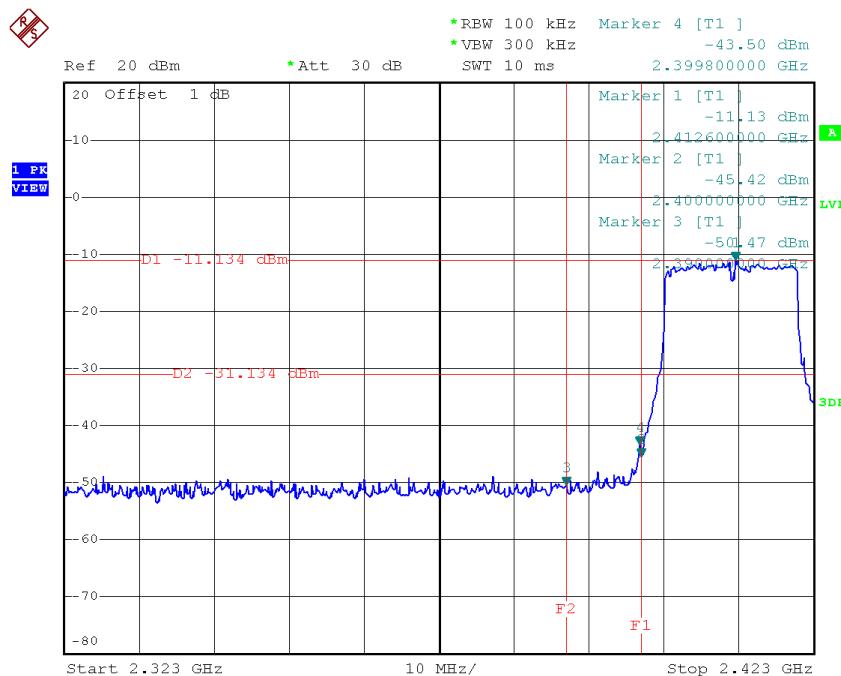
Date: 6.FEB.2018 10:11:15



Date: 6.FEB.2018 10:11:23

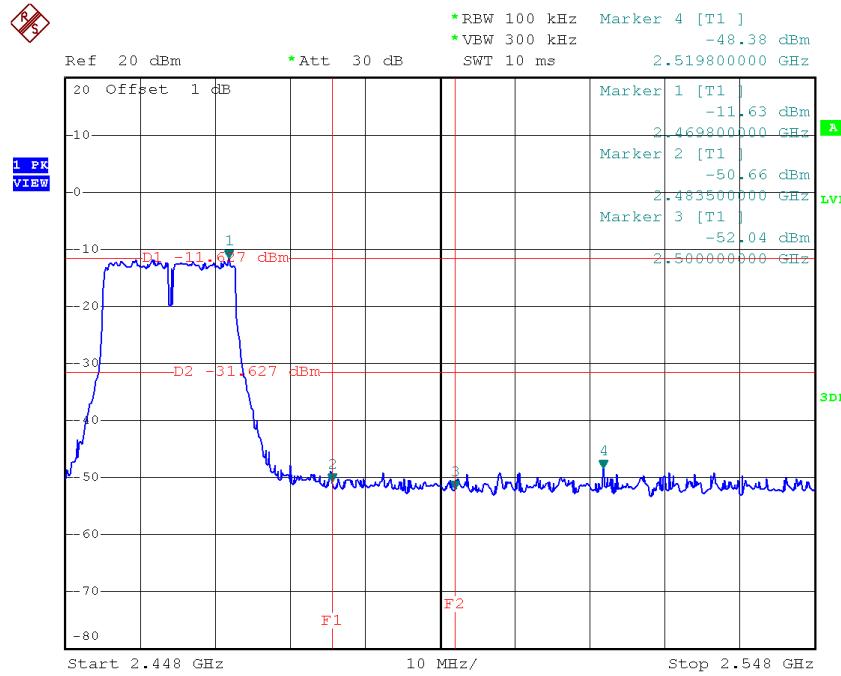
**Test Mode : TX N-20M Mode\_ANT 1**

### TX HT20 mode CH01



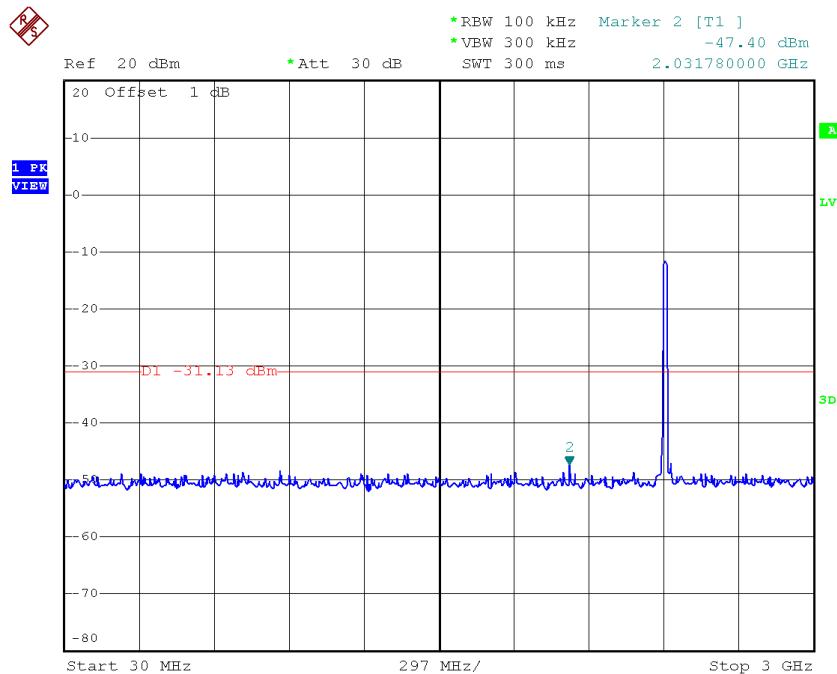
Date: 6.FEB.2018 10:12:49

### TX HT20 mode CH11

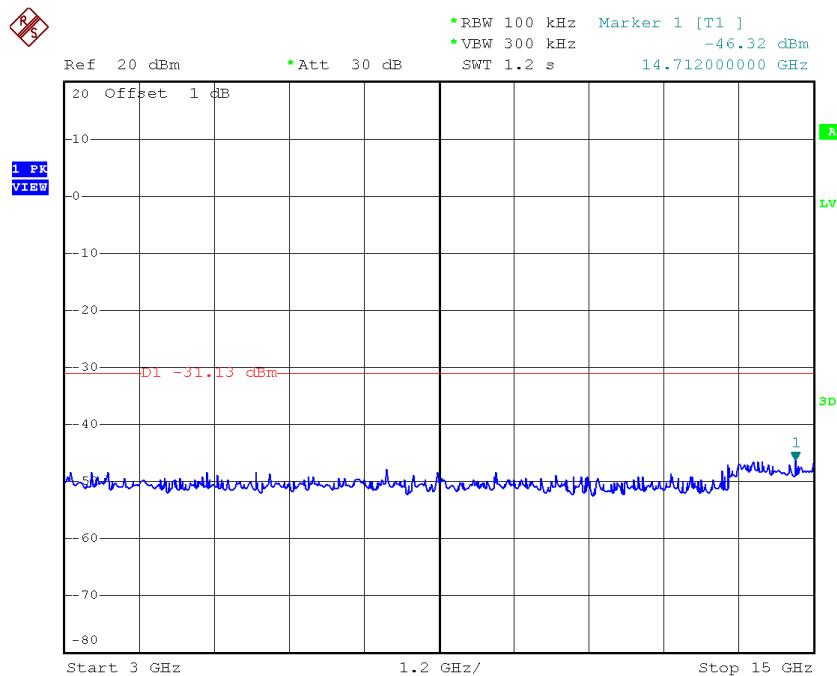


Date: 6.FEB.2018 10:16:57

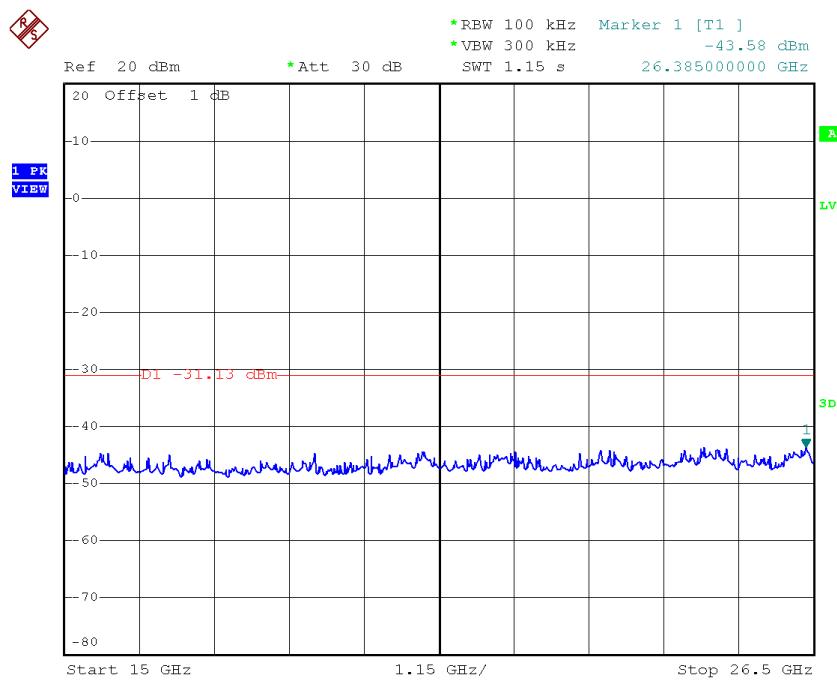
## TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:13:03

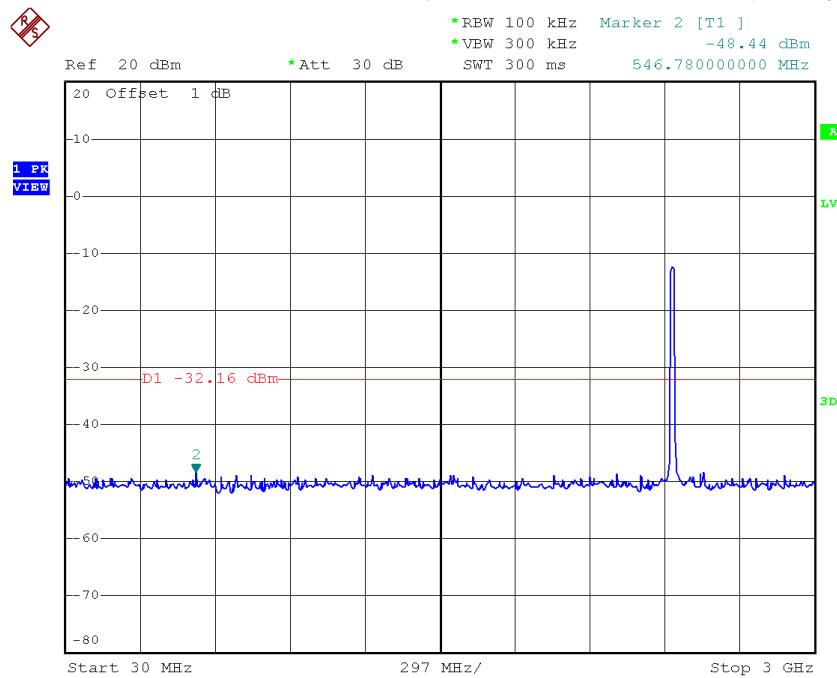


Date: 6.FEB.2018 10:13:11

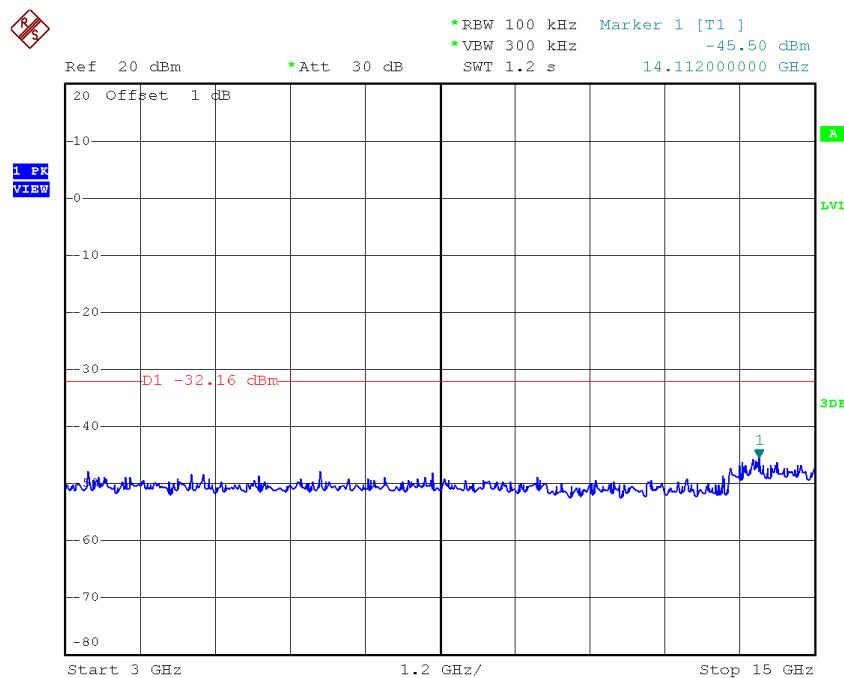


Date: 6.FEB.2018 10:13:19

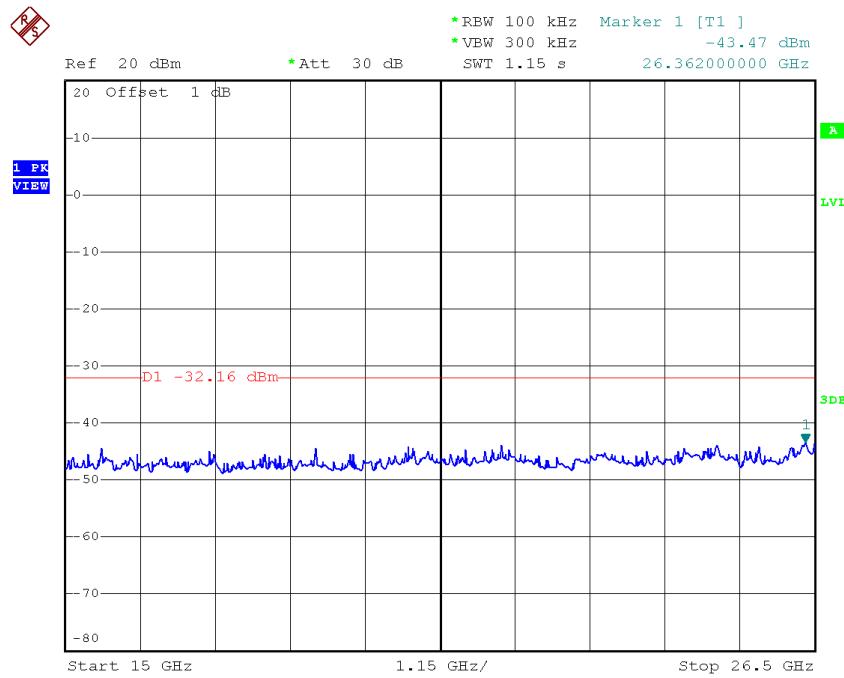
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:15:23

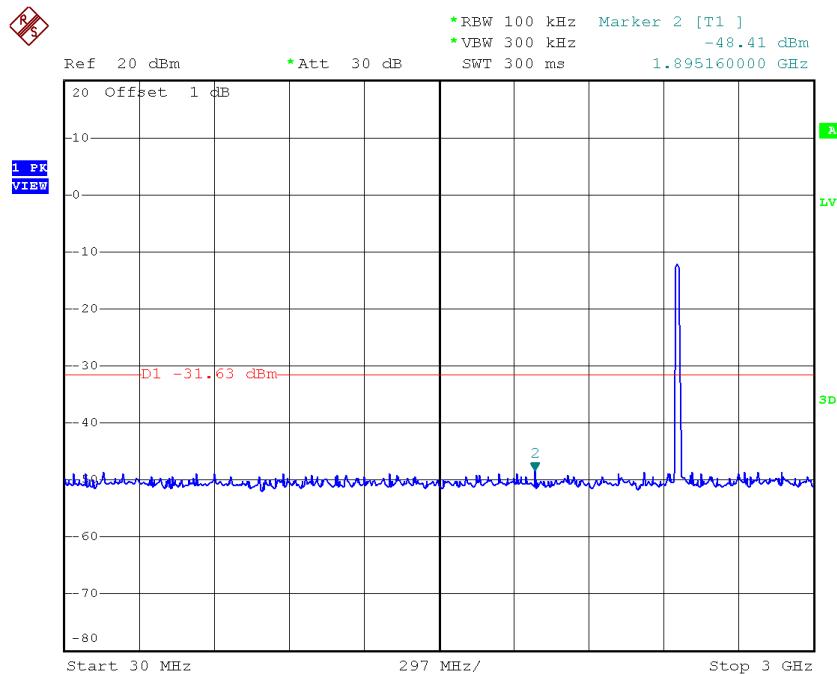


Date: 6.FEB.2018 10:15:32

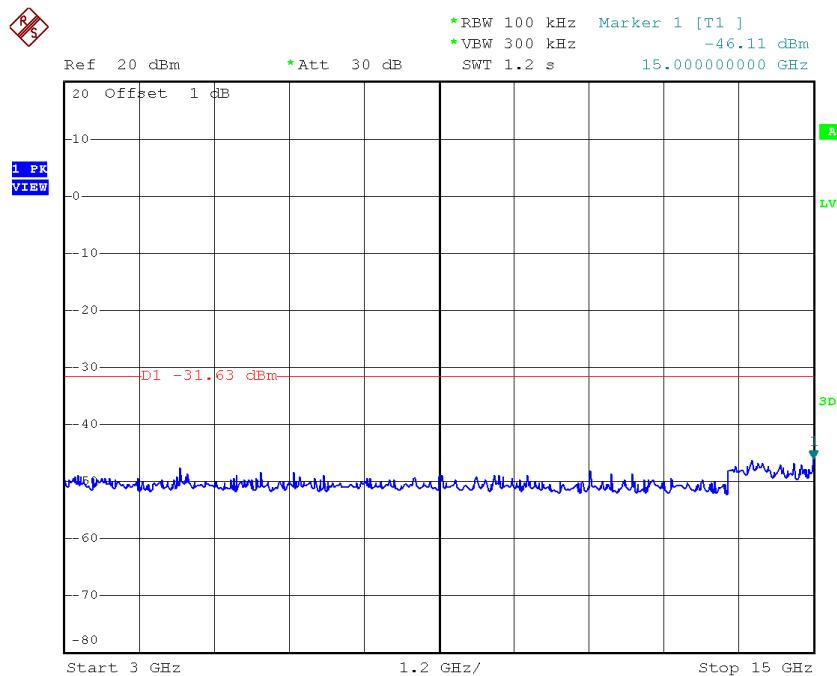


Date: 6.FEB.2018 10:15:40

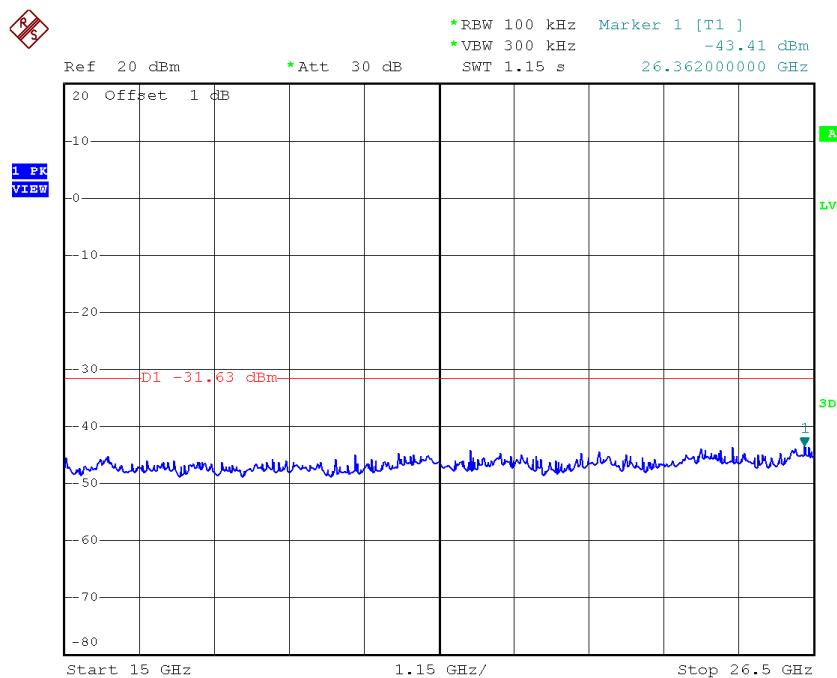
## TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:17:10



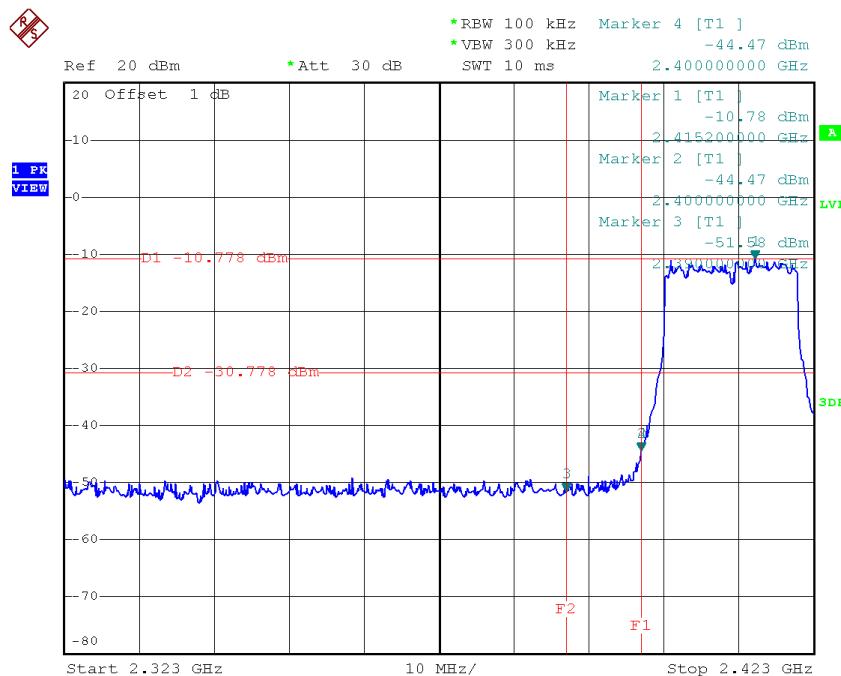
Date: 6.FEB.2018 10:17:19



Date: 6.FEB.2018 10:17:27

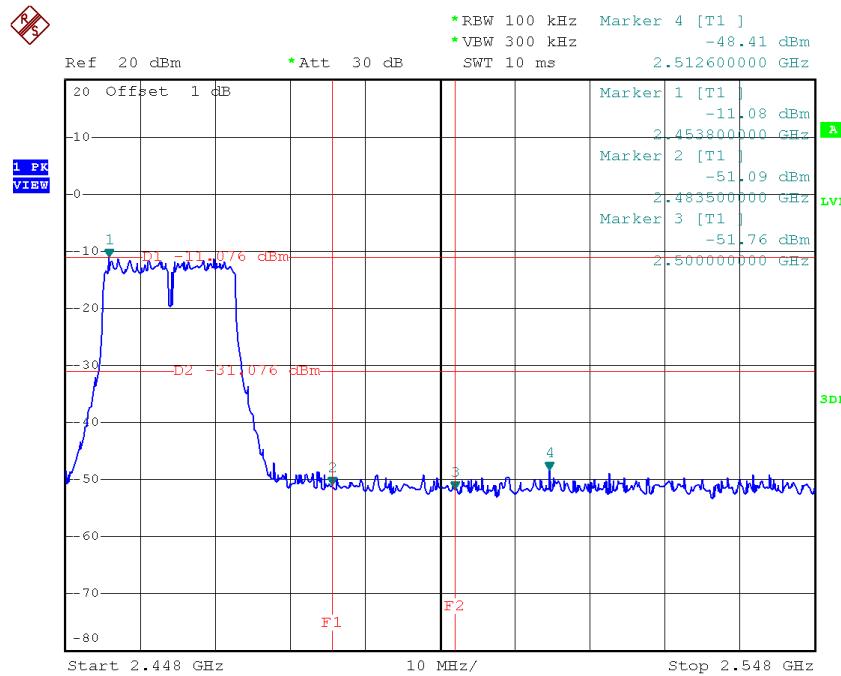
**Test Mode : TX N-20M Mode\_ANT 2**

### TX HT20 mode CH01



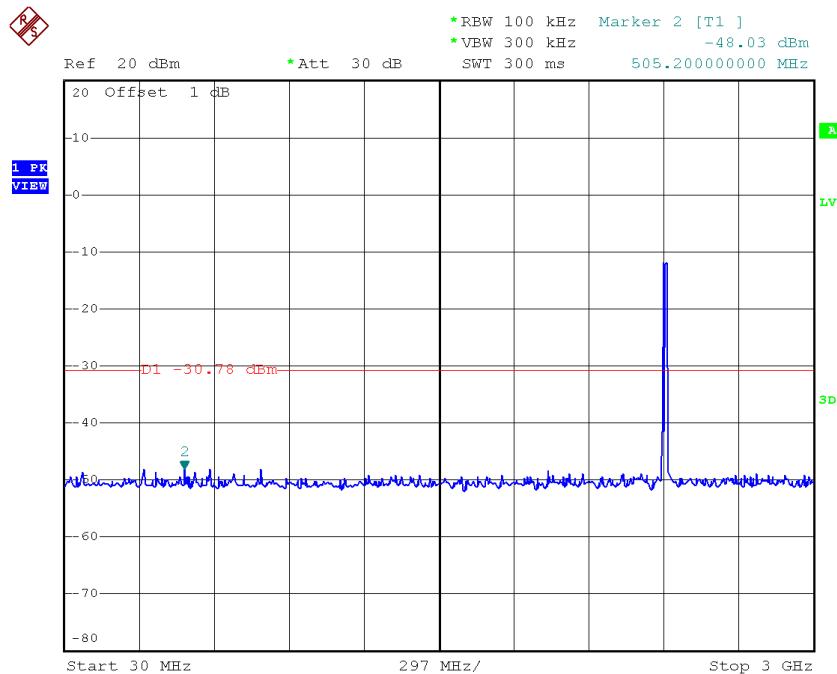
Date: 6.FEB.2018 10:28:23

### TX HT20 mode CH11

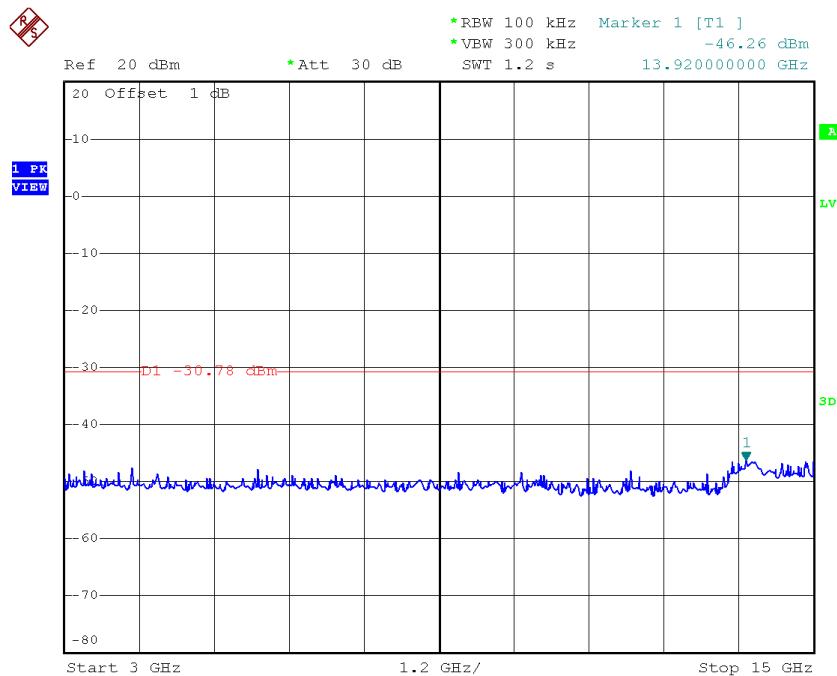


Date: 6.FEB.2018 10:32:30

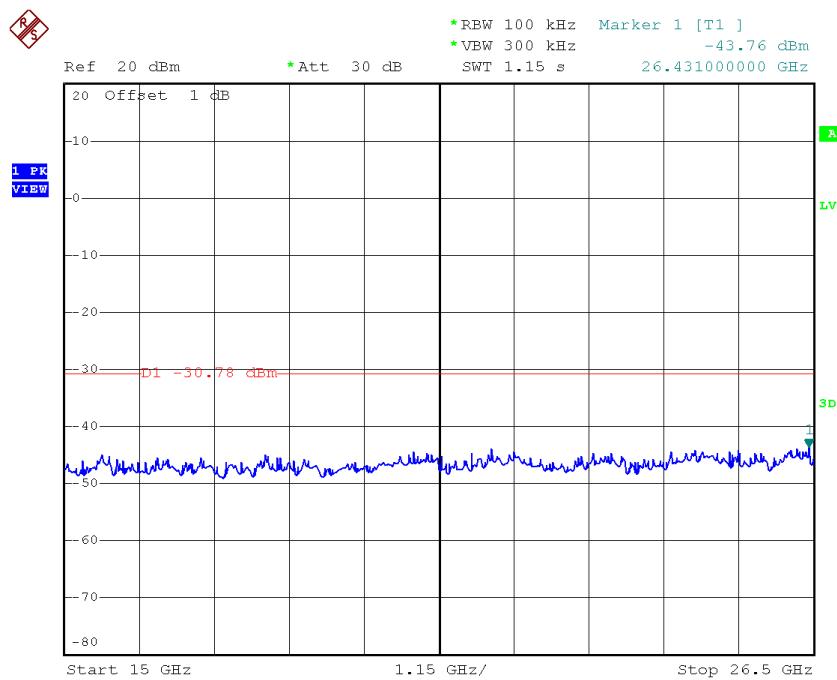
## TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:28:37

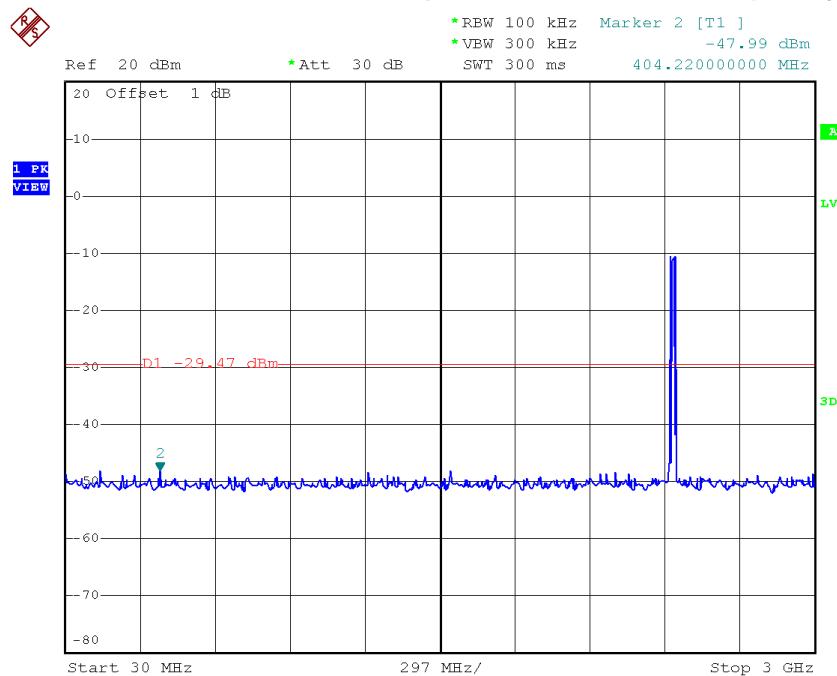


Date: 6.FEB.2018 10:28:45

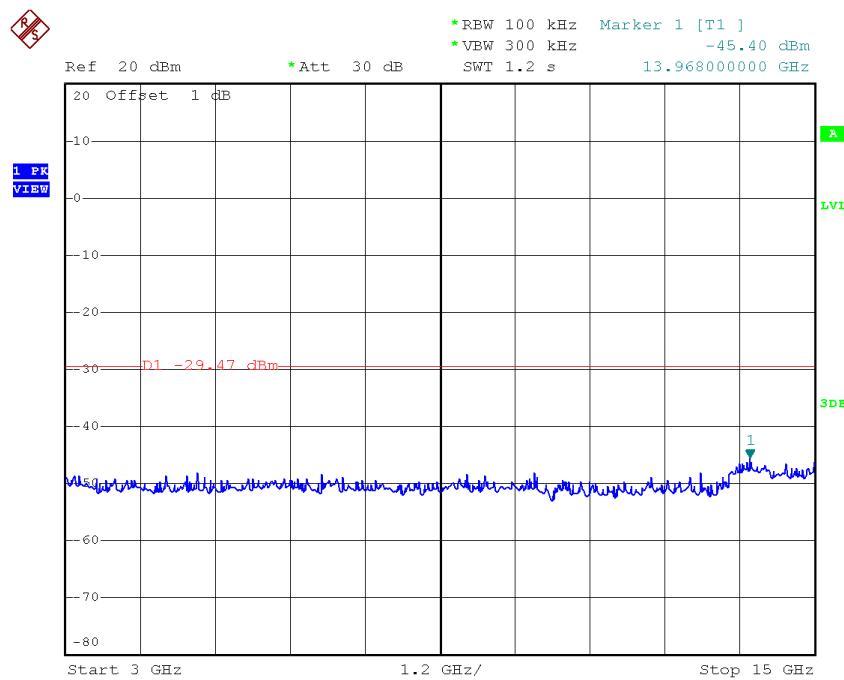


Date: 6.FEB.2018 10:28:53

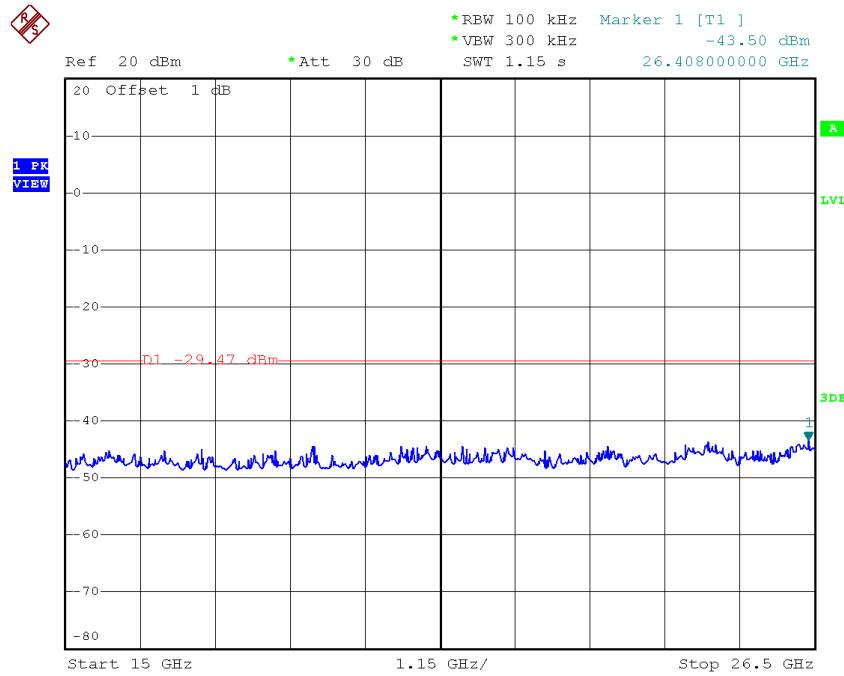
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:31:12

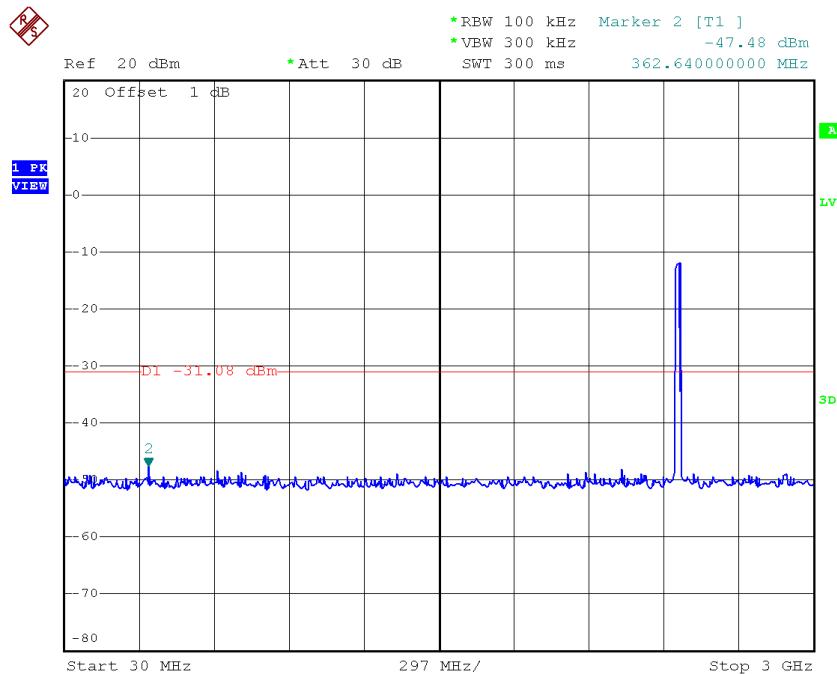


Date: 6.FEB.2018 10:31:21

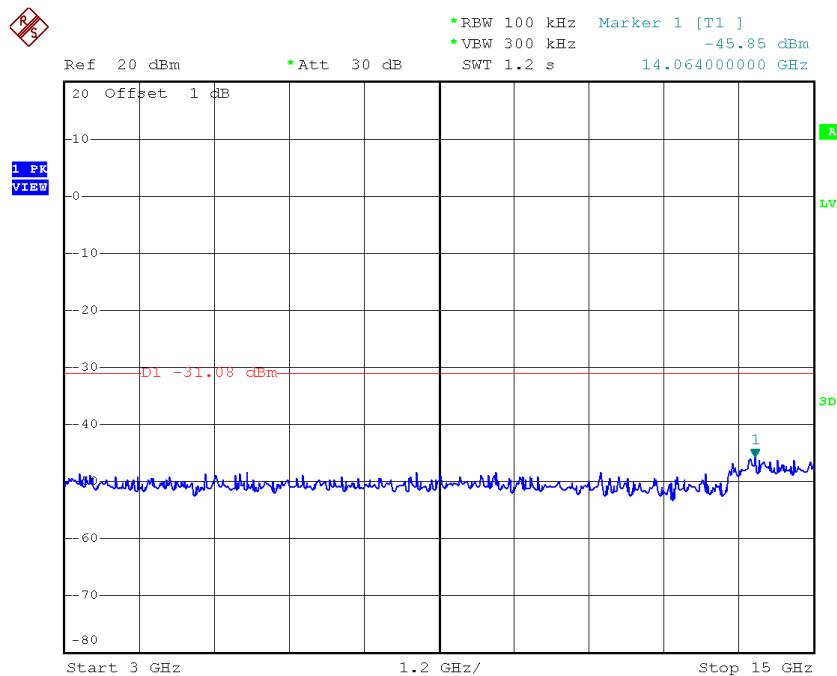


Date: 6.FEB.2018 10:31:29

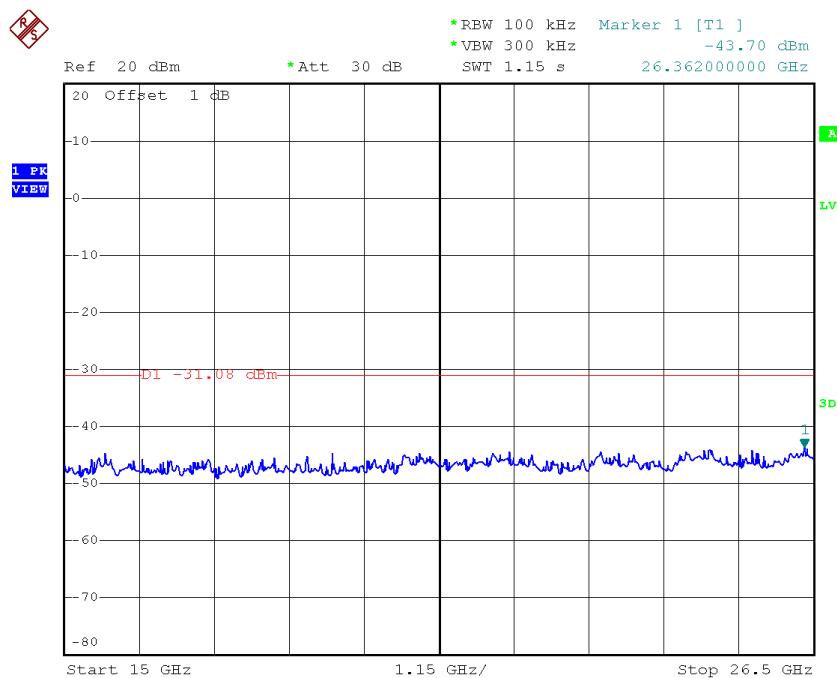
## TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:32:44



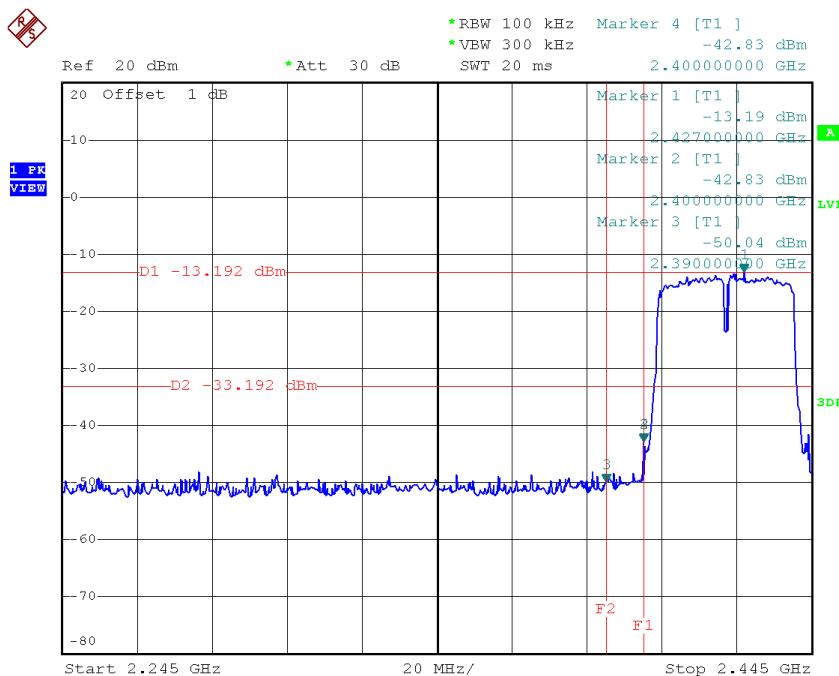
Date: 6.FEB.2018 10:32:52



Date: 6.FEB.2018 10:33:01

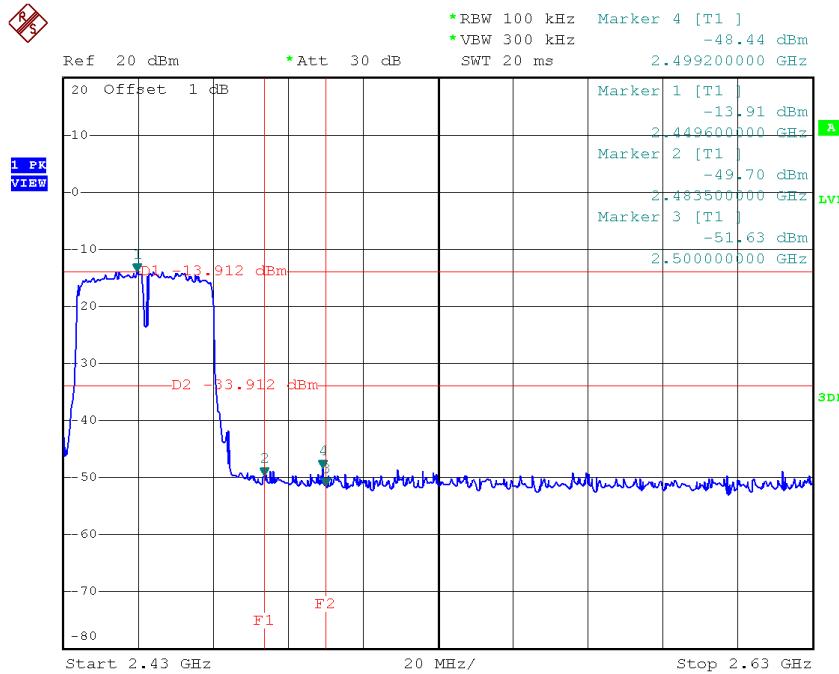
**Test Mode : TX N-40M Mode\_ANT 1**

### TX HT40 mode CH03



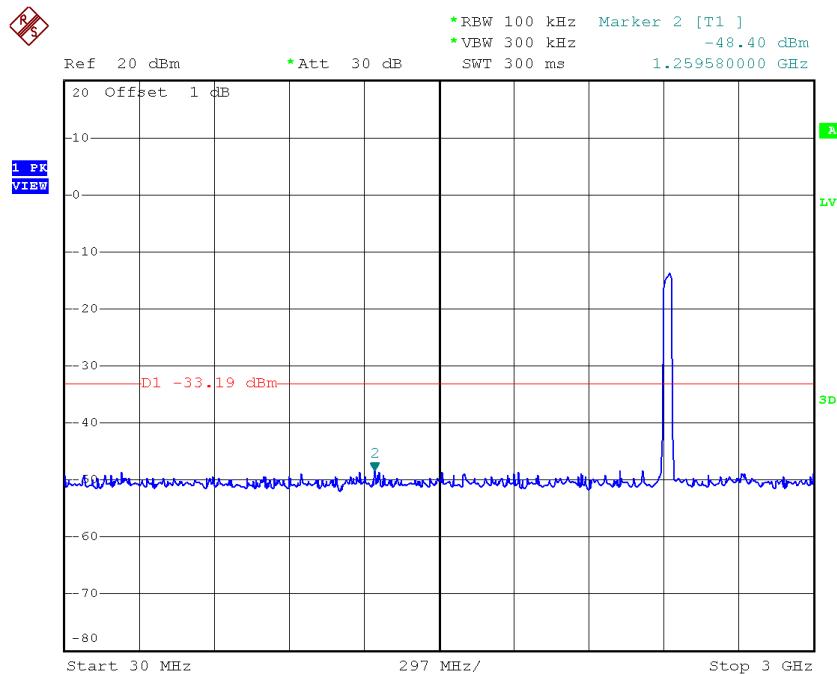
Date: 6.FEB.2018 10:20:48

### TX HT40 mode CH09

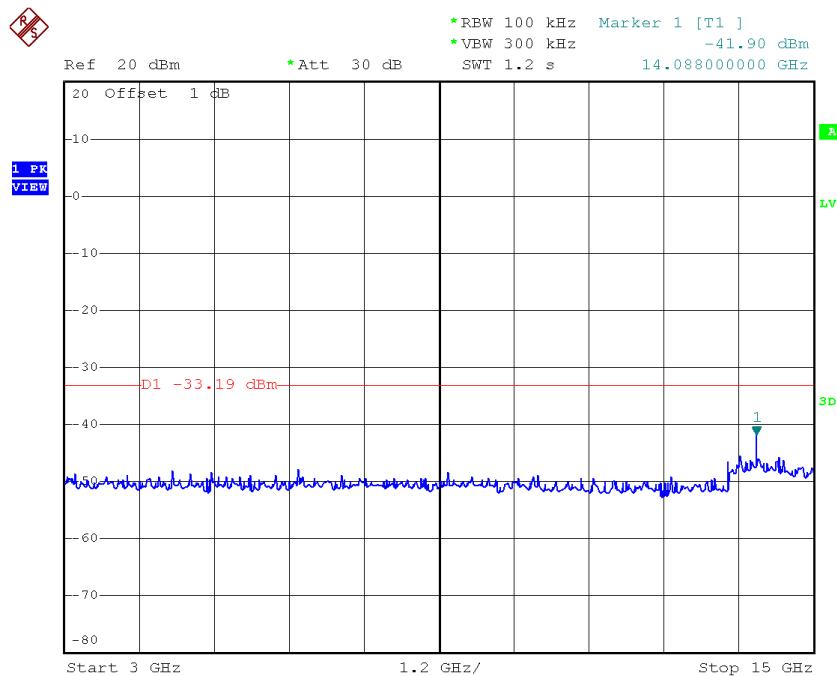


Date: 6.FEB.2018 10:24:01

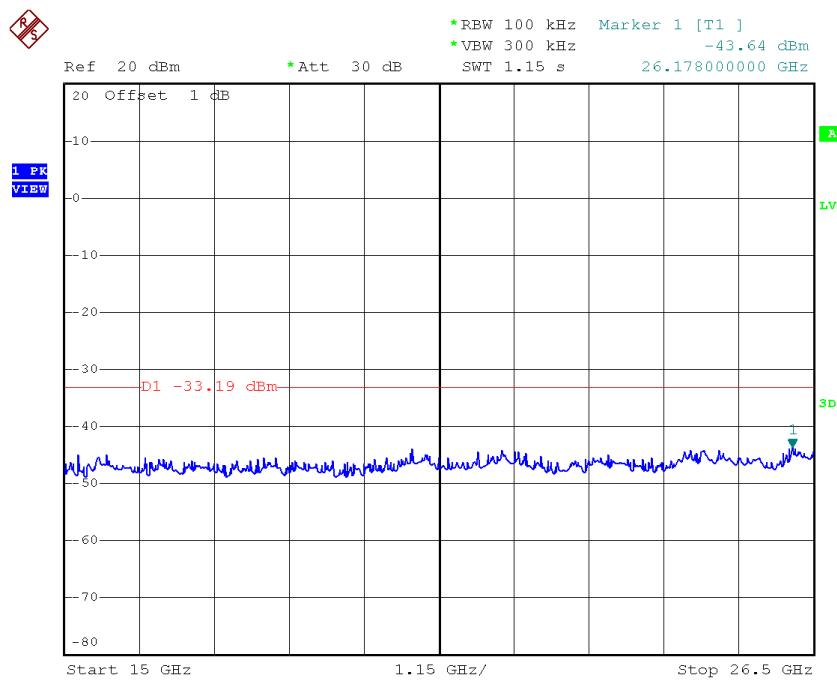
## TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:21:02

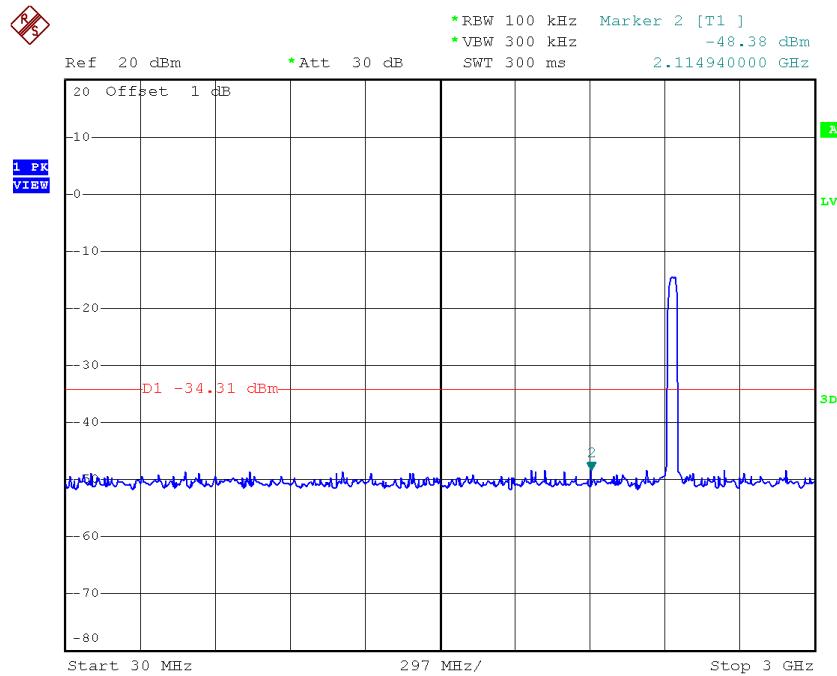


Date: 6.FEB.2018 10:21:10

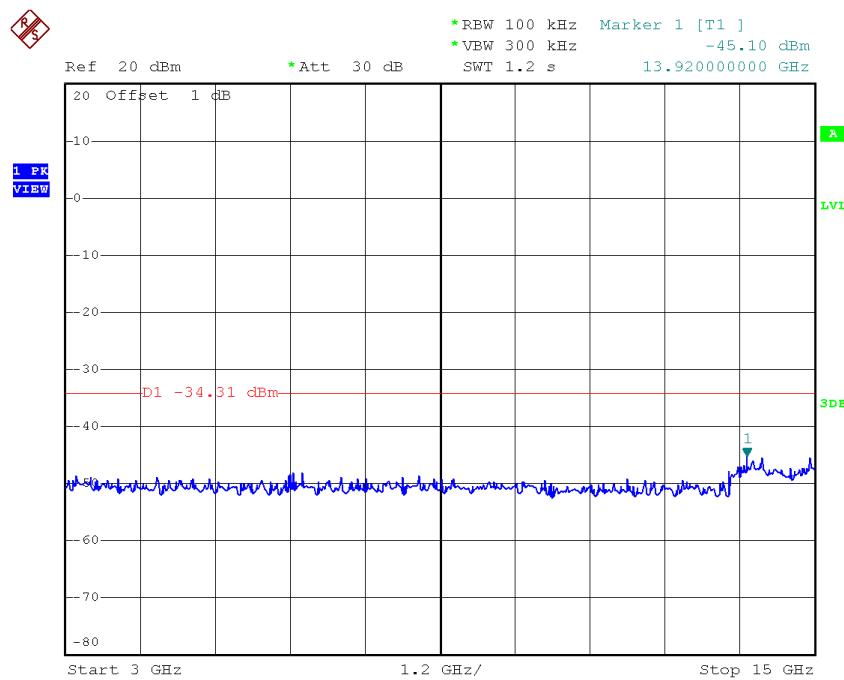


Date: 6.FEB.2018 10:21:19

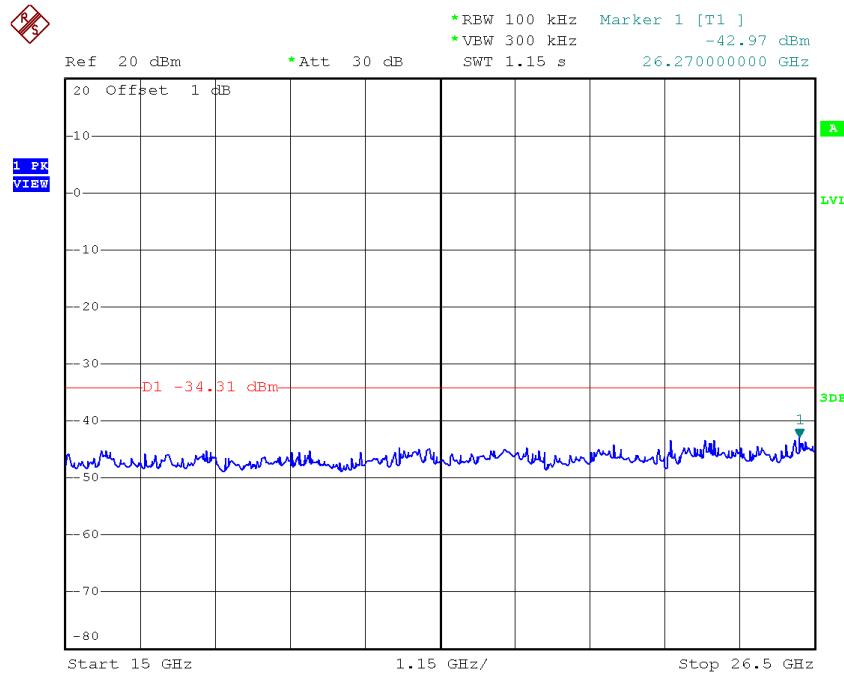
### TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:22:50

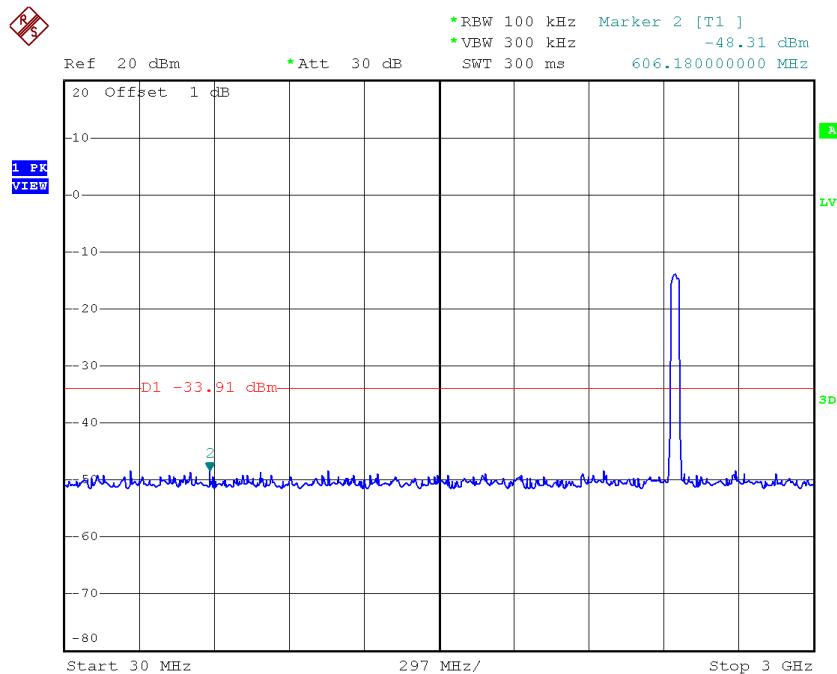


Date: 6.FEB.2018 10:22:58

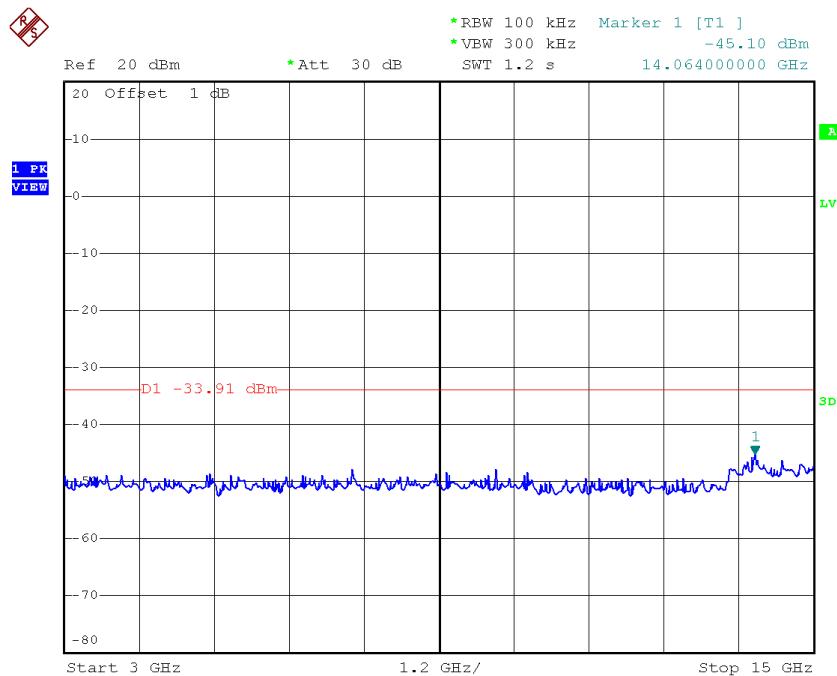


Date: 6.FEB.2018 10:23:07

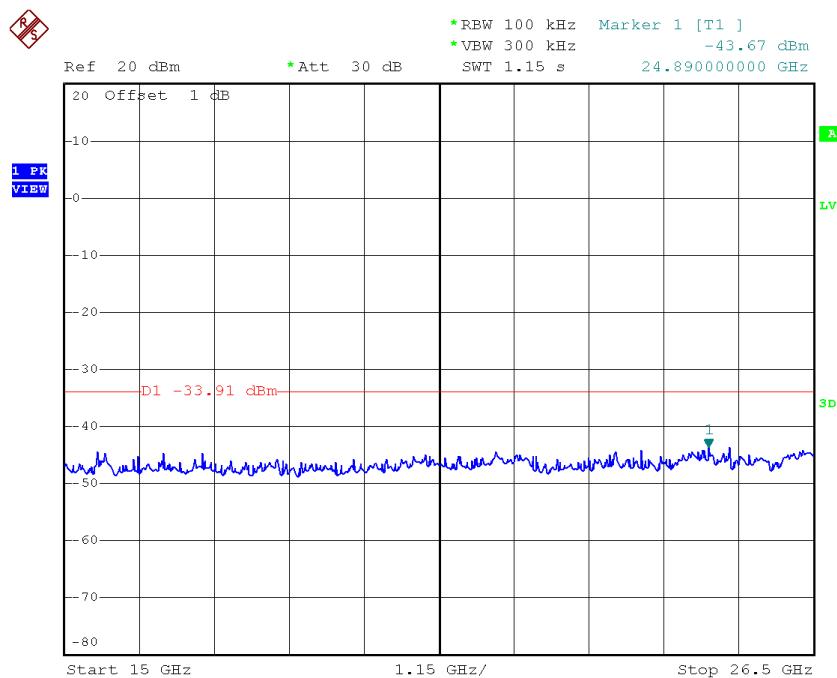
## TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:24:14



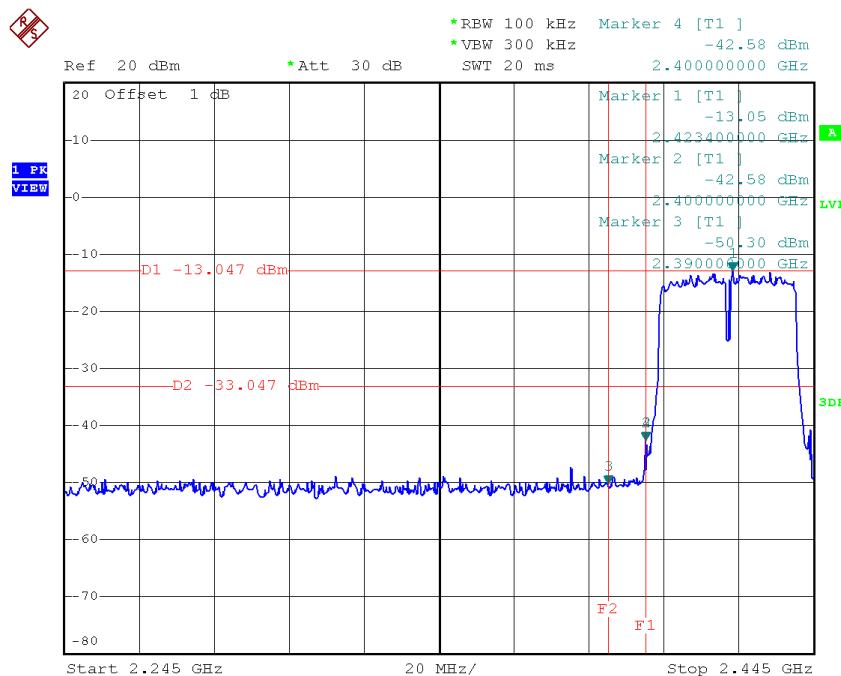
Date: 6.FEB.2018 10:24:23



Date: 6.FEB.2018 10:24:31

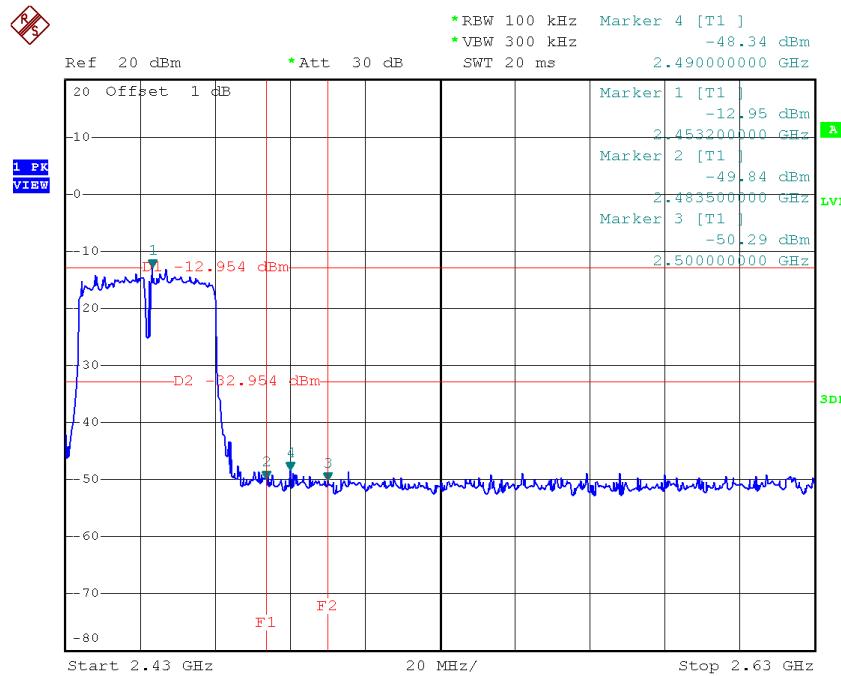
**Test Mode : TX N-40M Mode\_ANT 2**

### TX HT40 mode CH03



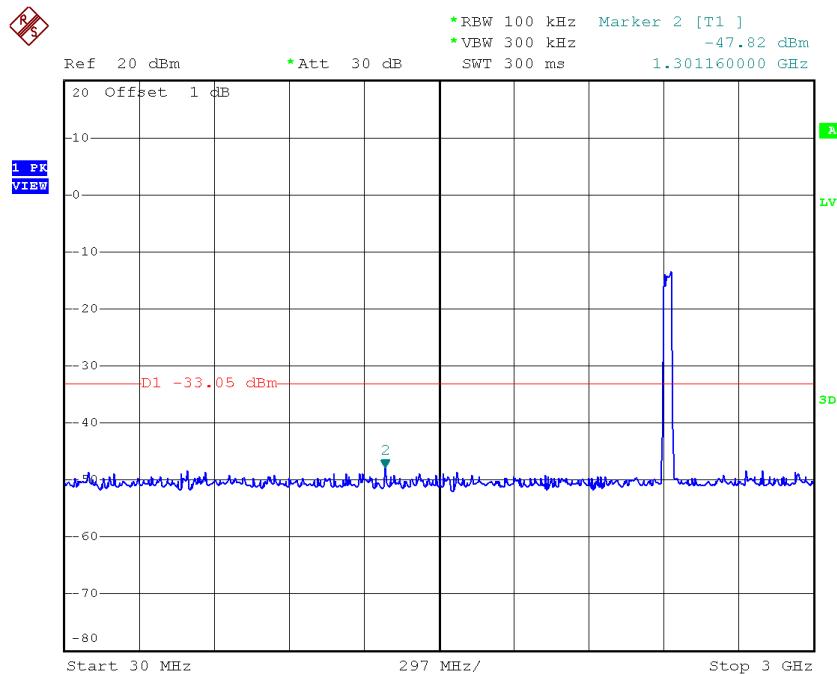
Date: 6.FEB.2018 10:34:15

### TX HT40 mode CH09

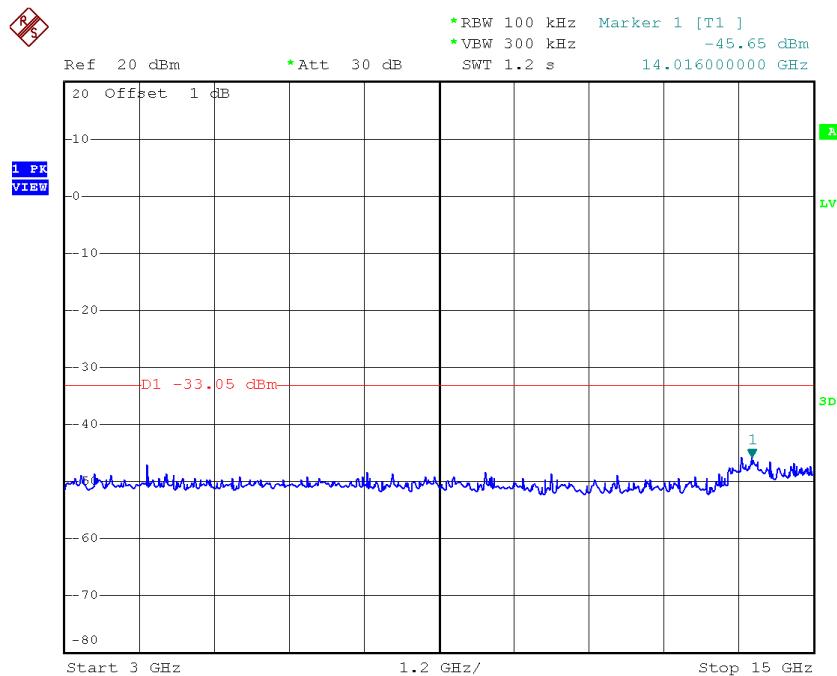


Date: 6.FEB.2018 10:37:31

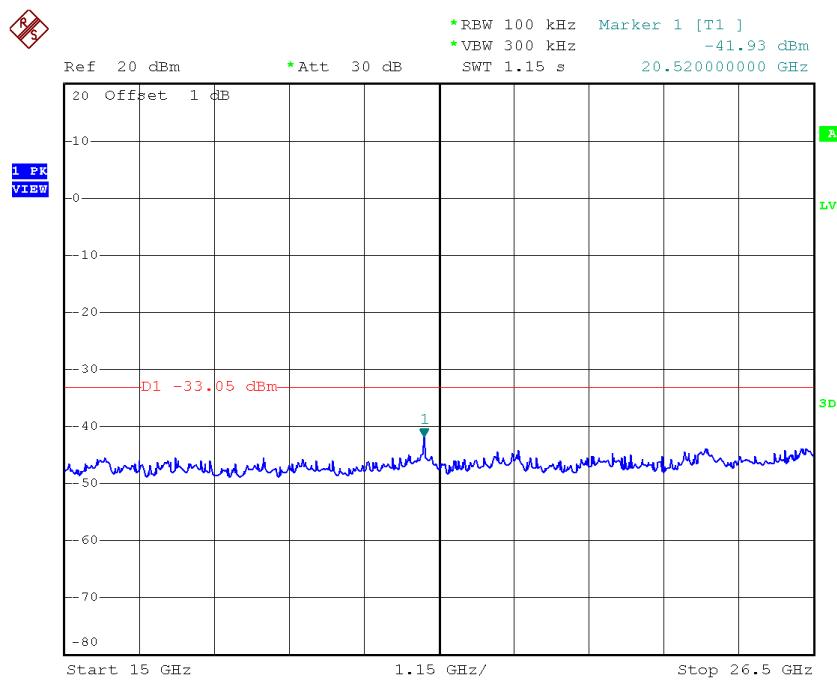
## TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:34:28

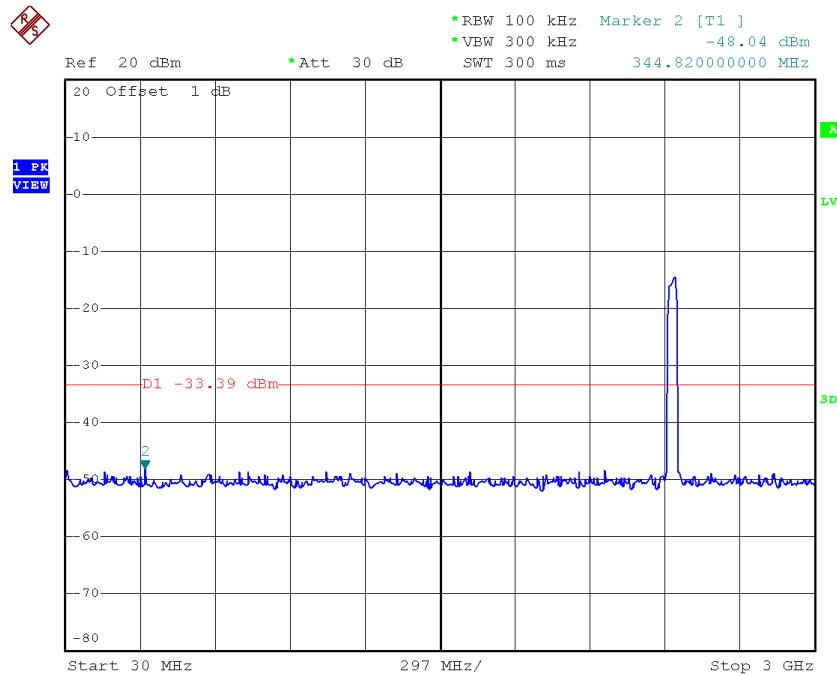


Date: 6.FEB.2018 10:34:37

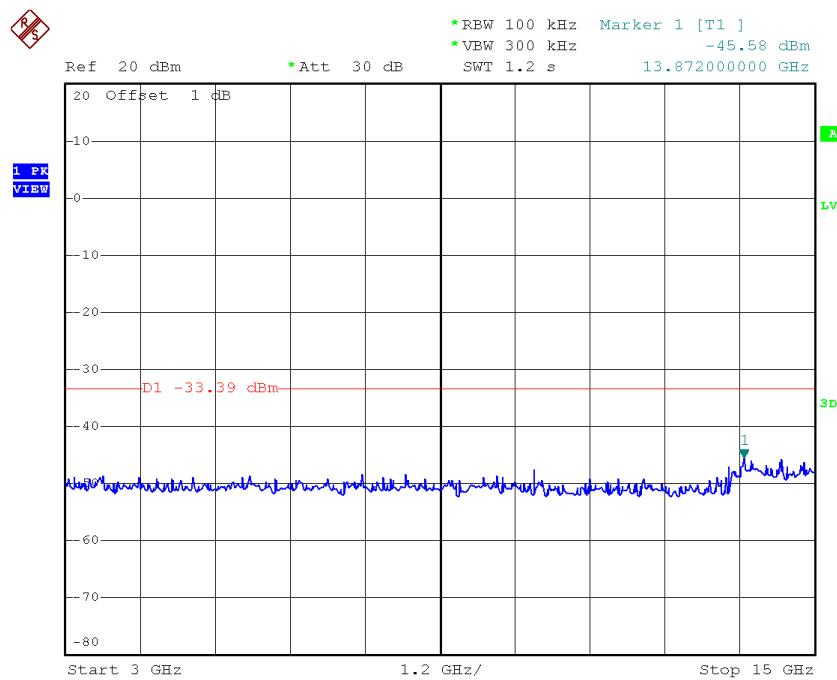


Date: 6.FEB.2018 10:34:45

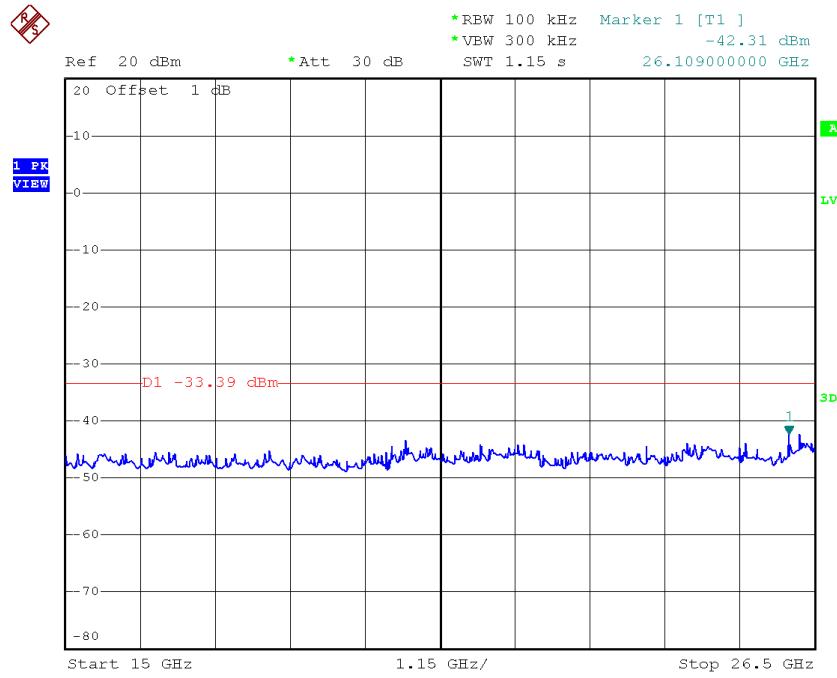
### TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:36:02

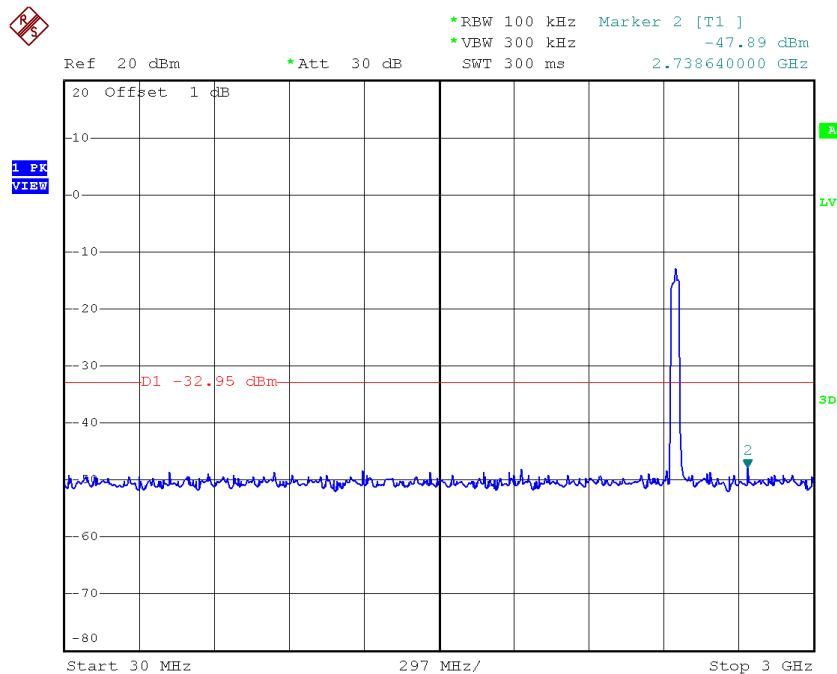


Date: 6.FEB.2018 10:36:11

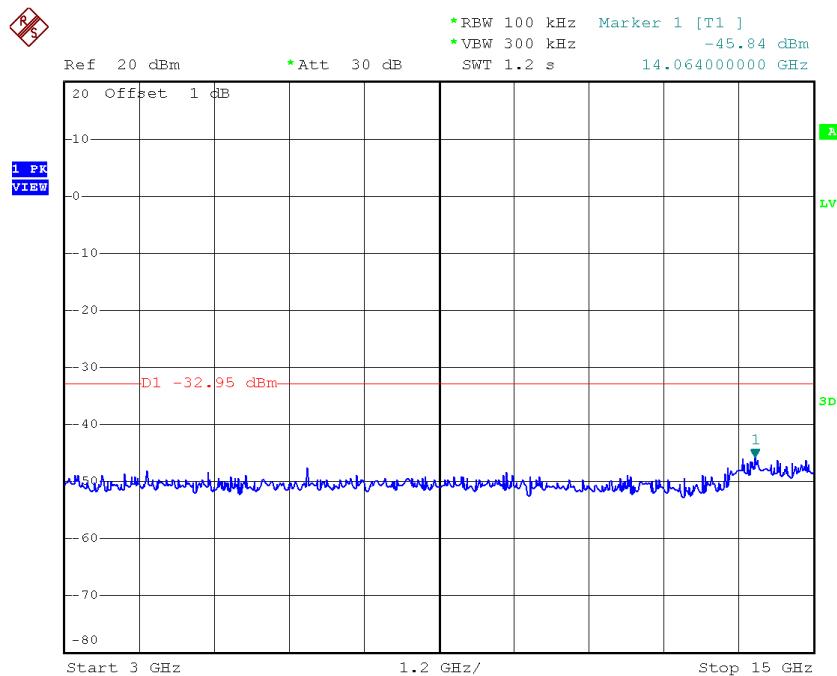


Date: 6.FEB.2018 10:36:19

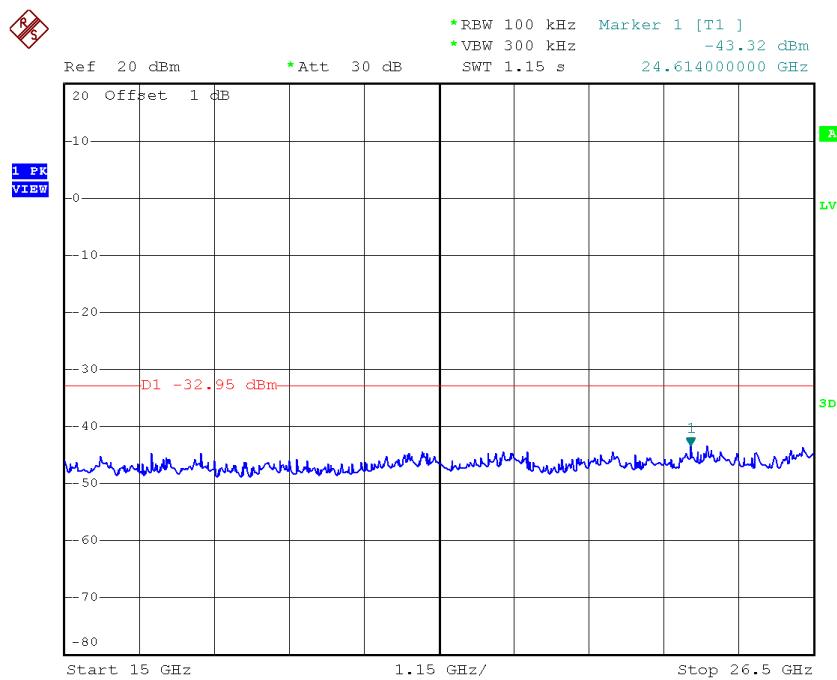
## TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 6.FEB.2018 10:37:44



Date: 6.FEB.2018 10:37:53



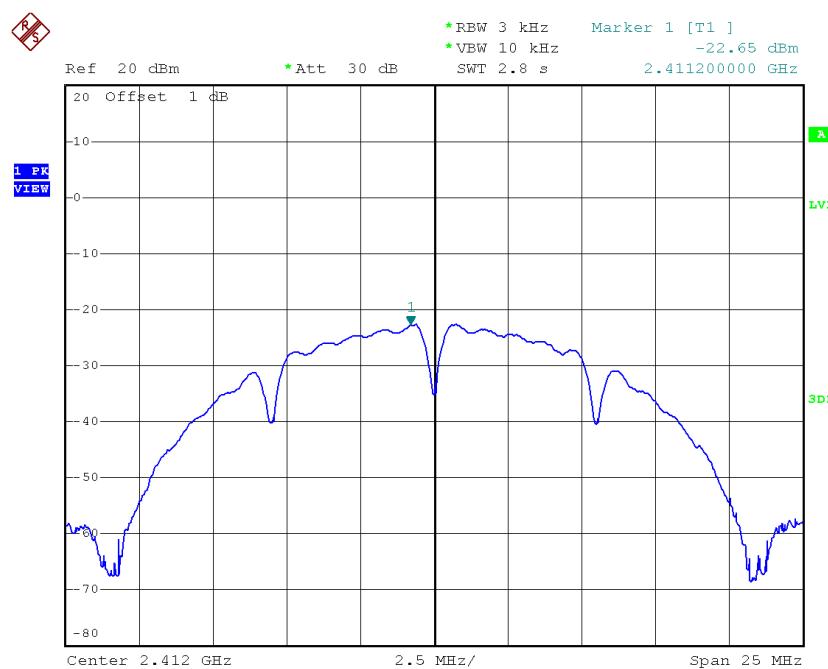
Date: 6.FEB.2018 10:38:01

## APPENDIX H - POWER SPECTRAL DENSITY

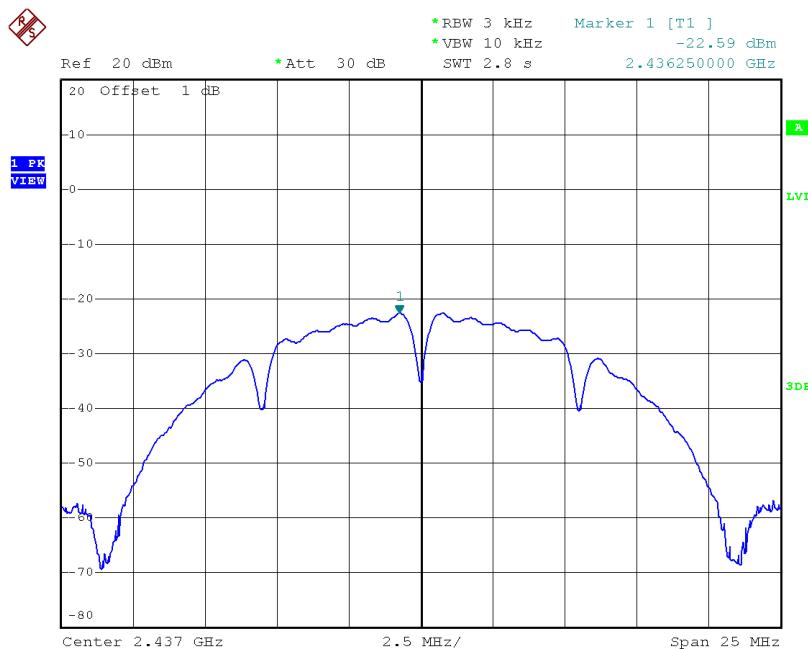
## Test Mode :TX B Mode\_CH01/06/11\_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-22.65	0.0054	8.00	Complies
2437	-22.59	0.0055	8.00	Complies
2462	-22.54	0.0056	8.00	Complies

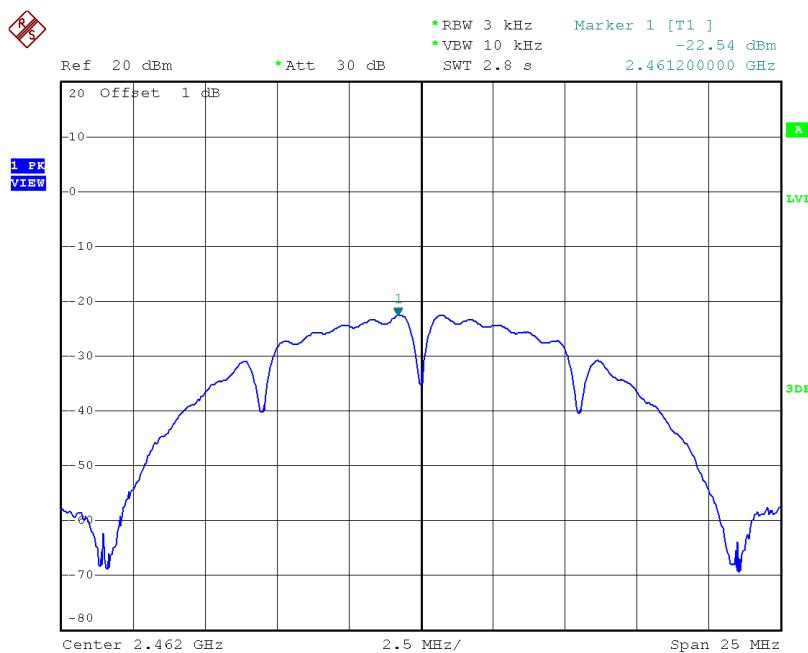
## TX CH01



Date: 6.FEB.2018 10:00:02

**TX CH06**

Date: 6.FEB.2018 10:04:05

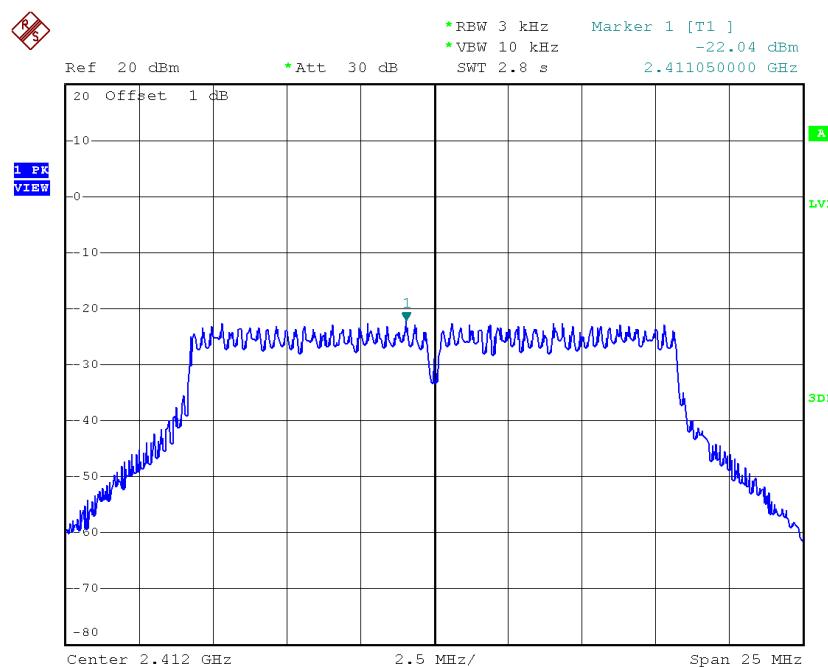
**TX CH11**

Date: 6.FEB.2018 10:05:58

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

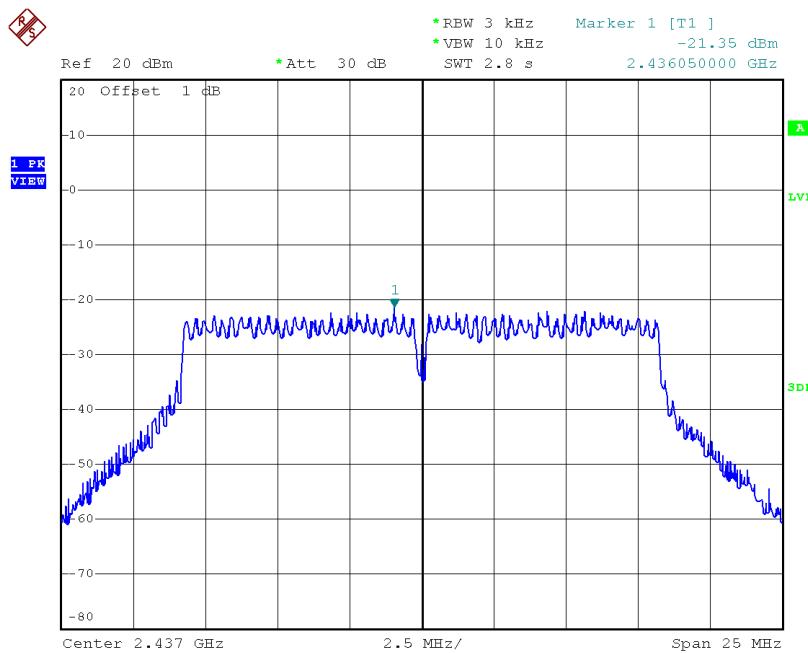
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-22.04	0.0063	8.00	Complies
2437	-21.35	0.0073	8.00	Complies
2462	-21.16	0.0077	8.00	Complies

## TX CH01



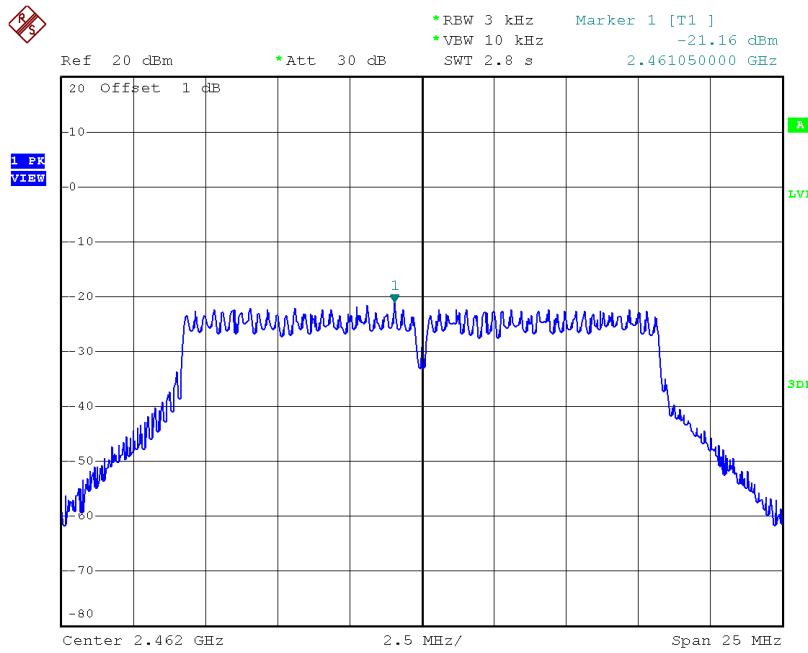
Date: 6.FEB.2018 10:08:39

## TX CH06



Date: 6.FEB.2018 10:10:10

## TX CH11

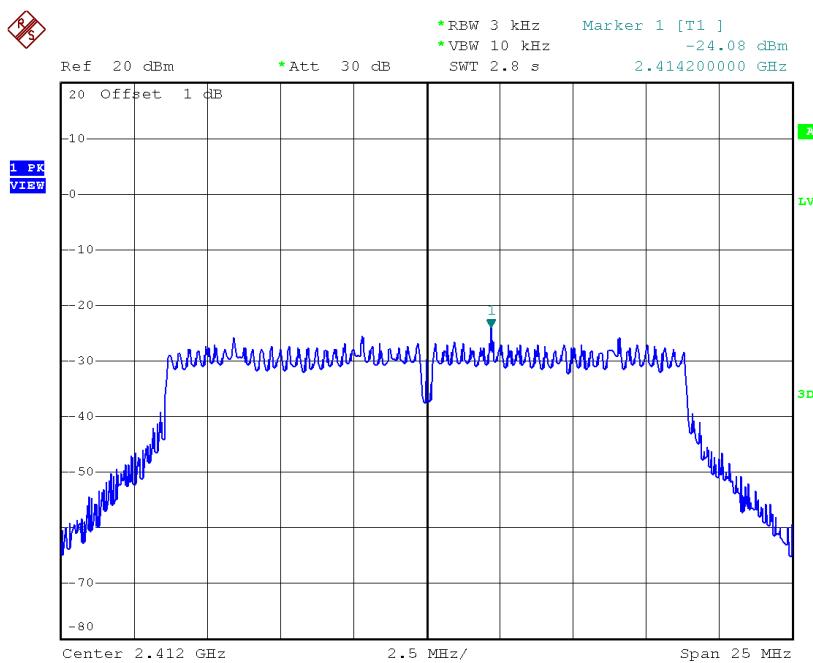


Date: 6.FEB.2018 10:11:32

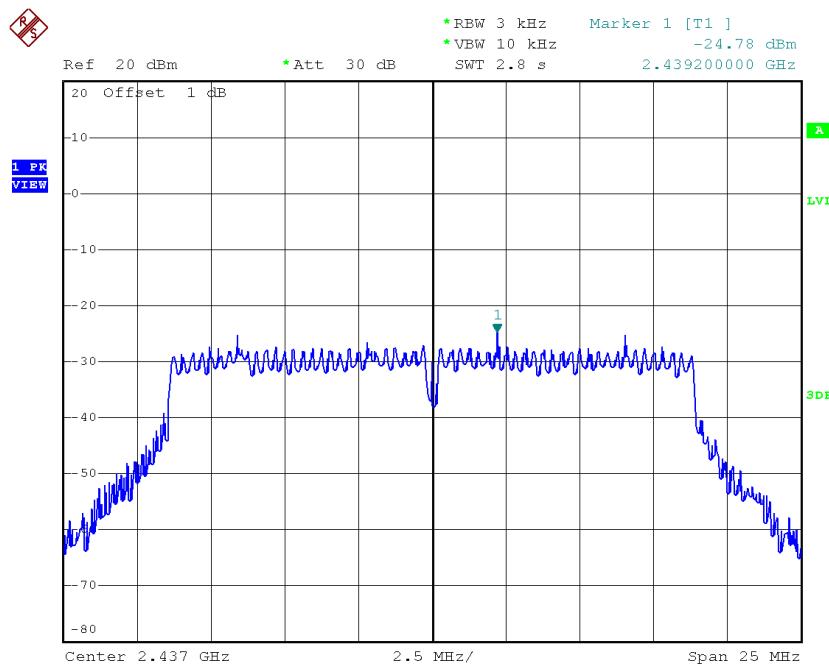
## Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-24.08	0.0039	8.00	Complies
2437	-24.78	0.0033	8.00	Complies
2462	-24.70	0.0034	8.00	Complies

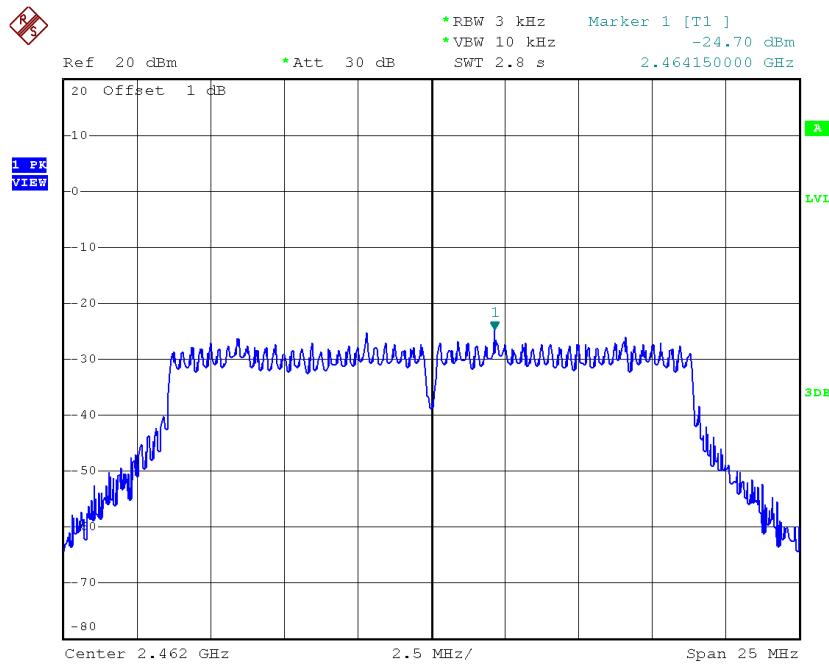
## TX CH01



Date: 6.FEB.2018 10:13:28

**TX CH06**

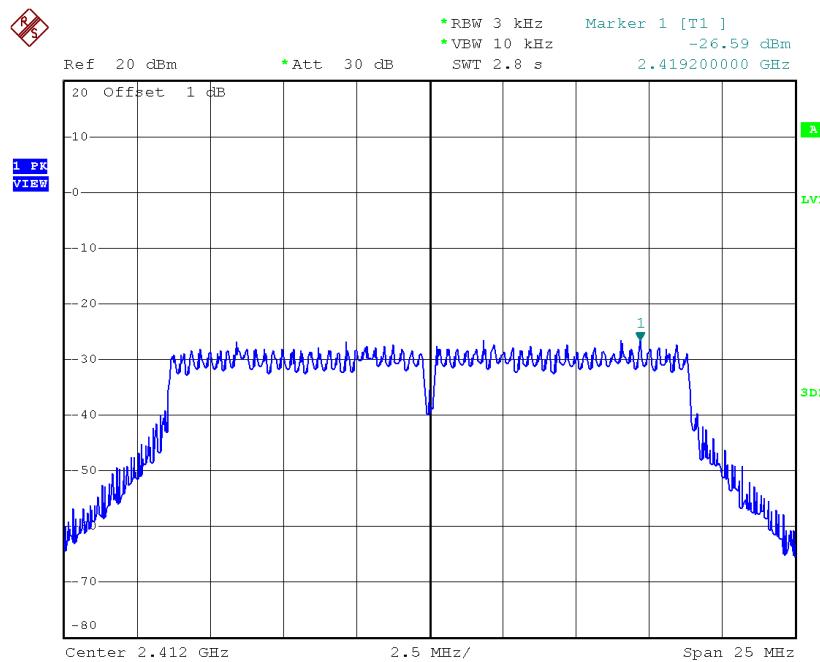
Date: 6.FEB.2018 10:15:49

**TX CH11**

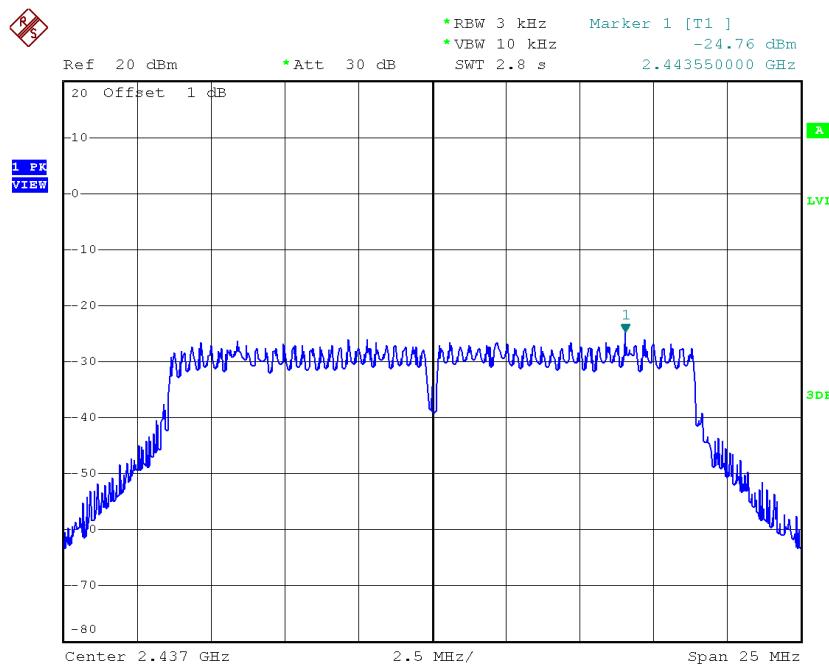
Date: 6.FEB.2018 10:17:36

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

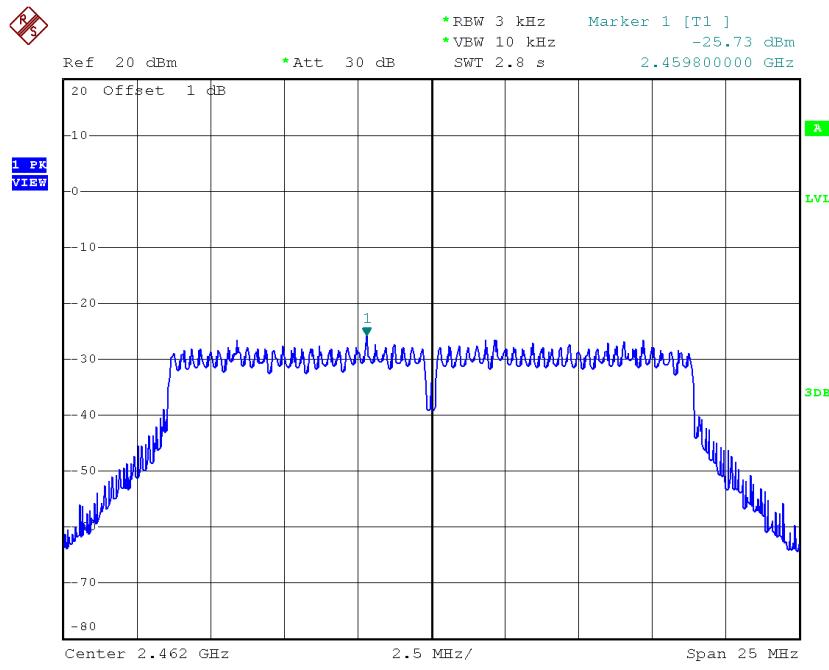
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-26.59	0.0022	8.00	Complies
2437	-24.76	0.0033	8.00	Complies
2462	-25.73	0.0027	8.00	Complies

**TX CH01**

Date: 6.FEB.2018 10:29:03

**TX CH06**

Date: 6.FEB.2018 10:31:38

**TX CH11**

Date: 6.FEB.2018 10:33:10

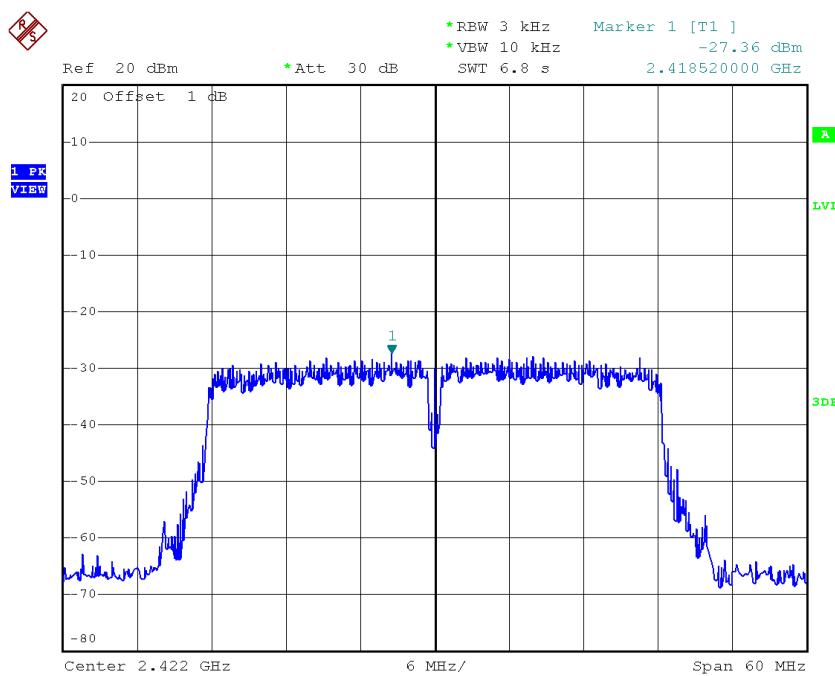
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-22.15	0.0061	8.00	Complies
2437	-21.80	0.0066	8.00	Complies
2462	-22.15	0.0061	8.00	Complies

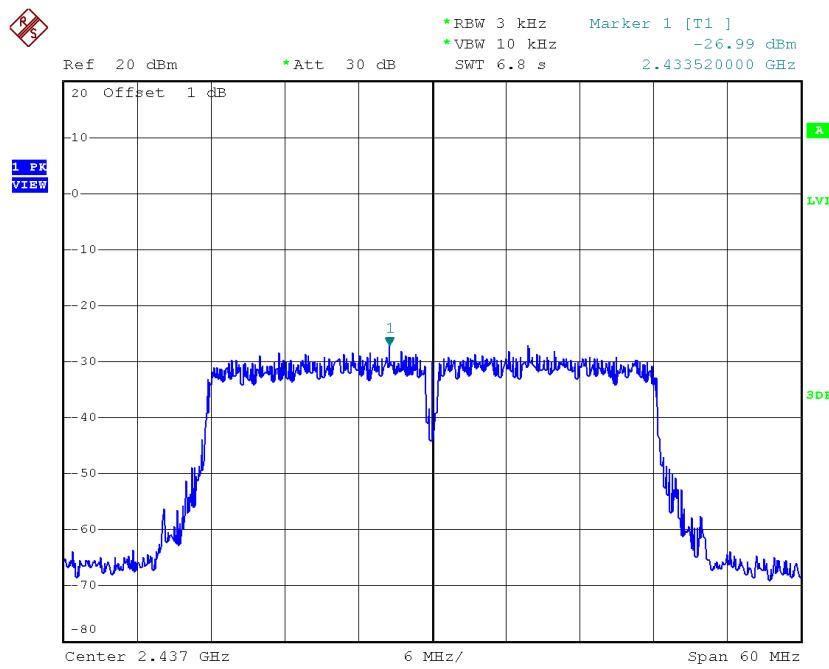
## Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-27.36	0.0018	8.00	Complies
2437	-26.99	0.0020	8.00	Complies
2452	-26.70	0.0021	8.00	Complies

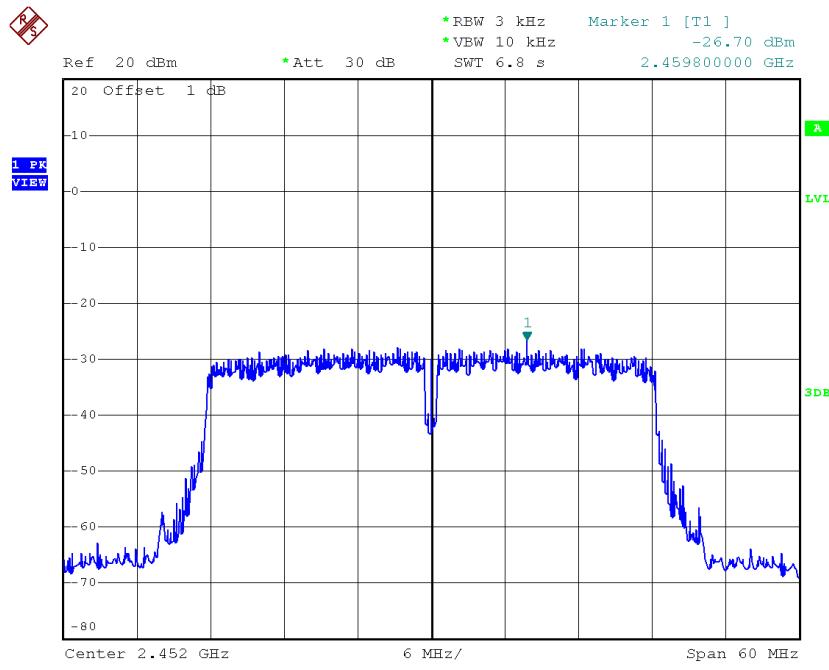
## TX CH03



Date: 6.FEB.2018 10:21:31

**TX CH06**

Date: 6.FEB.2018 10:23:19

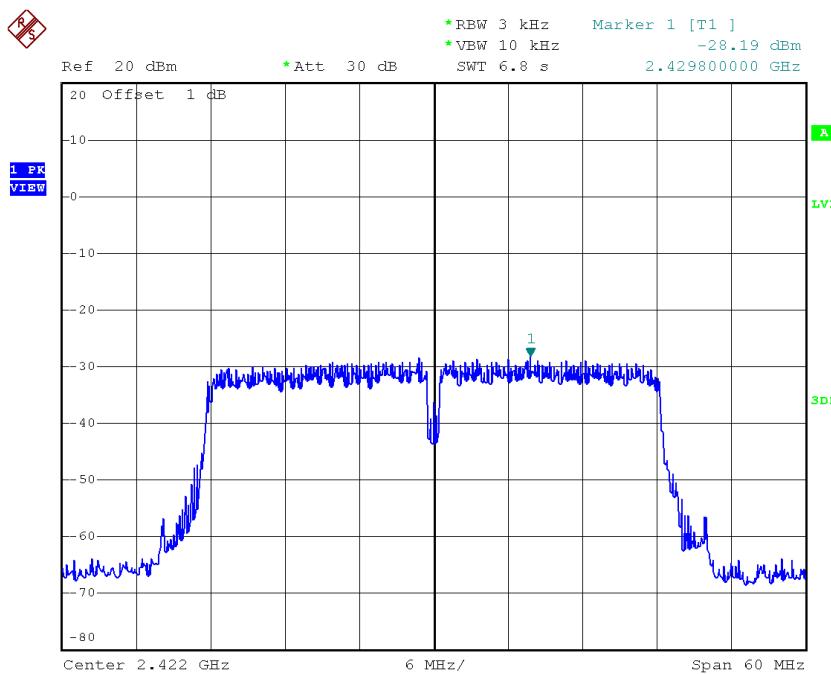
**TX CH09**

Date: 6.FEB.2018 10:24:43

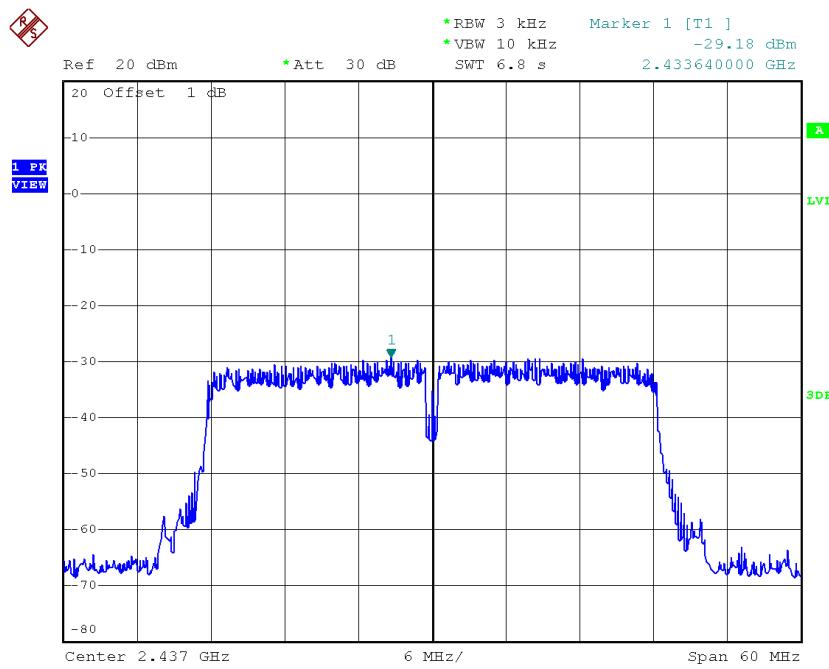
## Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-28.19	0.0015	8.00	Complies
2437	-29.18	0.0012	8.00	Complies
2452	-28.90	0.0013	8.00	Complies

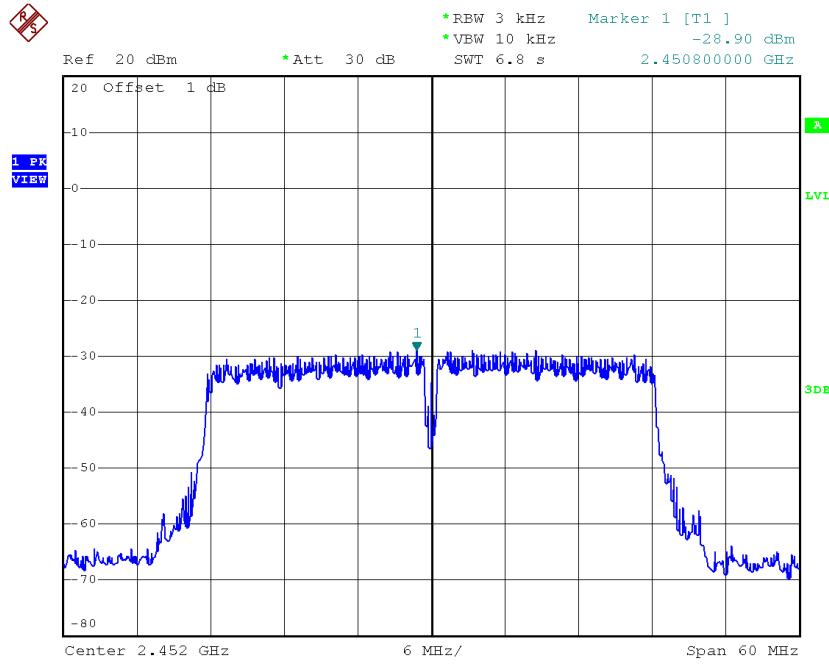
## TX CH03



Date: 6.FEB.2018 10:34:57

**TX CH06**

Date: 6.FEB.2018 10:36:31

**TX CH09**

Date: 6.FEB.2018 10:38:13

**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	-24.81	0.0033	8.00	Complies
2437	-24.95	0.0032	8.00	Complies
2452	-24.69	0.0034	8.00	Complies