

# FCC Radio Test Report

## FCC ID: I38VDSL5038GRV

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

**Project No.** : 1502C148  
**Equipment** : VDSL2 WIRELESS-AC 4-PORT GATEWAY WITH  
USB 2.0 HOST  
**Model Name** : VDSL5038GRV(AC)  
**Applicant** : AZTECH TECHNOLOGIES PTE LTD.  
**Address** : 31, Ubi Road 1, #09-01, Singapore 408694

**Date of Receipt** : Feb. 25, 2015  
**Date of Test** : Feb. 25, 2015~ Apr. 07, 2015  
**Issued Date** : Apr. 08, 2015  
**Tested by** : BTL Inc.

**Testing Engineer** : David Mao  
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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.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1502C148	Original Issue.	Apr. 08, 2015

## 1. CERTIFICATION

Equipment : VDSL2 WIRELESS-AC 4-PORT GATEWAY WITH USB 2.0 HOST  
Brand Name : Aztech  
Model Name : VDSL5038GRV(AC)  
Applicant : AZTECH TECHNOLOGIES PTE LTD.  
Manufacturer : Aztech Technologies Pte Ltd.  
Address : 31, Ubi Road 1, #09-01, Singapore 408694  
Factory : Aztech Communication Device (DG) LTD  
Address : JiuJiangshui, Chang Ping town, Dongguan, Guang Dong  
Date of Test : Feb. 25, 2015~ Apr. 07, 2015  
Test Sample : ENGINEERING SAMPLE  
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.4-2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1502C148) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2014</b>				
Standard(s)	Section	Test Item	Judgment	Remark
<b>FCC</b>				
15.207		Conducted Emission	PASS	
15.247(d)		Antenna conducted Spurious Emission	PASS	
15.247(a)(2)		6dB Bandwidth	PASS	
15.247(b)(3)		Peak Output Power	PASS	
15.247(e)		Power Spectral Density	PASS	
15.203		Antenna Requirement	PASS	
15.209/15.205		Transmitter Radiated Emissions	PASS	

**NOTE:**

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

### A. Conducted Measurement :

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

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
DG-C 03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	VDSL2 WIRELESS-AC 4-PORT GATEWAY WITH USB 2.0 HOST	
Brand Name	Aztech	
Model Name	VDSL5038GRV(AC)	
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
	Output Power (Max.)	802.11b: 18.90dBm 802.11g: 23.65dBm 802.11n(20MHz): 24.46dBm 802.11n(40MHz): 25.52dBm
Power Source	DC Voltage supplied from AC/DC adapter. Brand/Model:AMIGO/AMS3-1202000FU	
Power Rating	I/P: AC 100-240V, 50/60Hz,0.8A O/P:12V/2.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Walsin	RFPCA2010-01	Internal	N/A	4.00	TX/RX
2	Walsin	RFPCA2010-01	Internal	N/A	4.00	TX/RX

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain =  $G_{ANT}$** , that is Directional gain=4.

4.

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

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

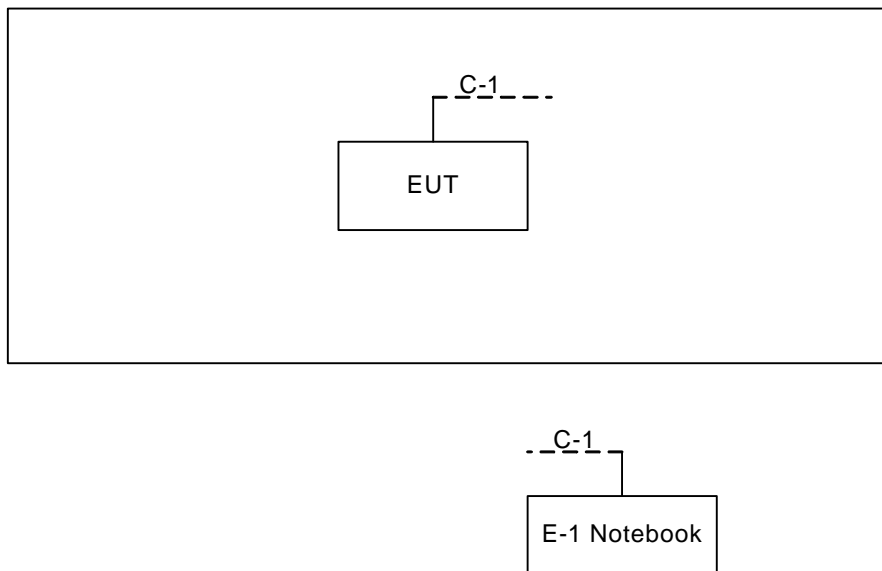
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 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	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	0E	0E	0F
802.11g	13	17	13
802.11n (20MHz)	0F , 13	13 , 17	13 , 18
Frequency	2422	2437	2452
802.11n (40MHz)	9 , 0E	14 , 19	12 , 17

### 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/IC	Series No.	Note
E-1	Notebook	DELL	INSPIRON 1420	DOC	N/A	

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

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

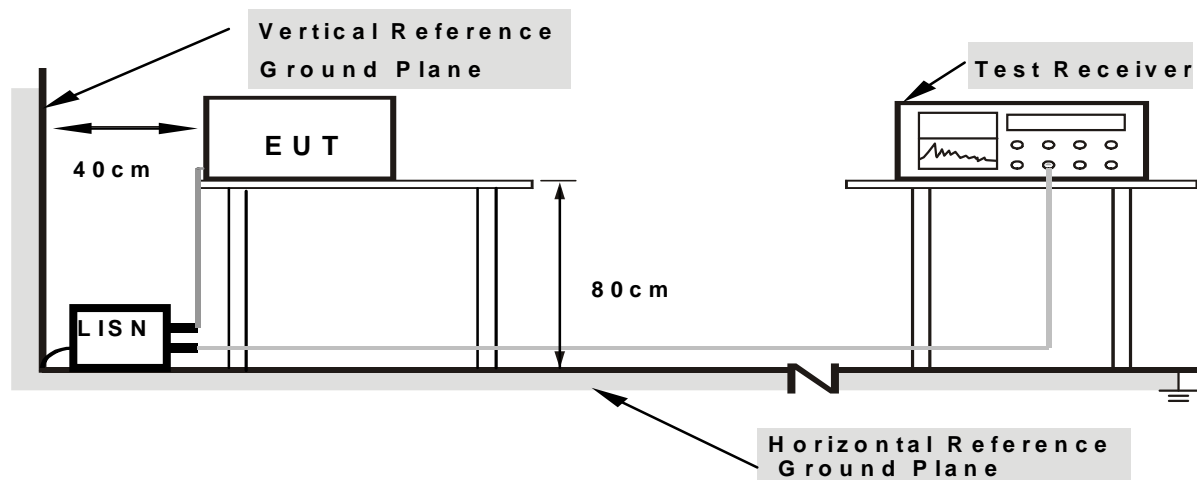
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a)& RSS-Gen 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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value



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

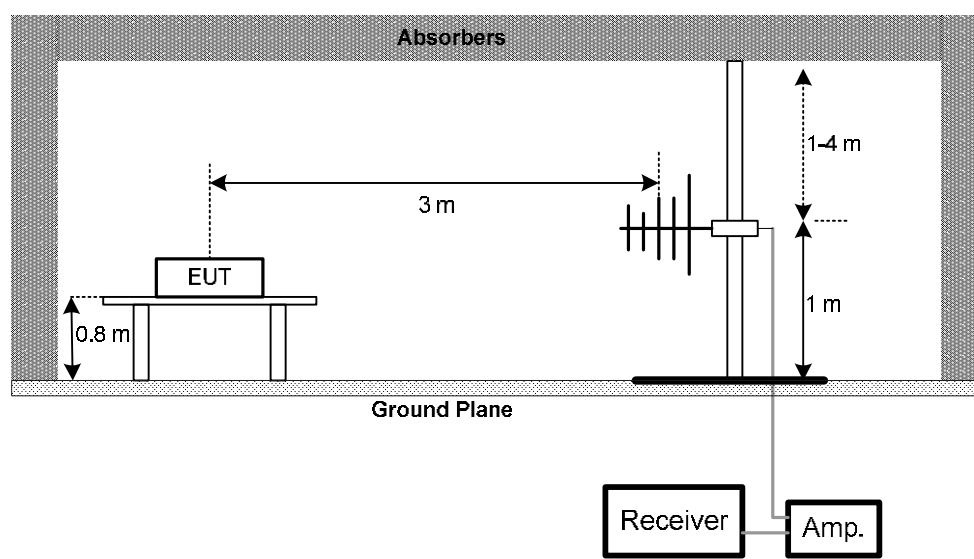
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3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

#### 4.2.3 DEVIATION FROM TEST STANDARD

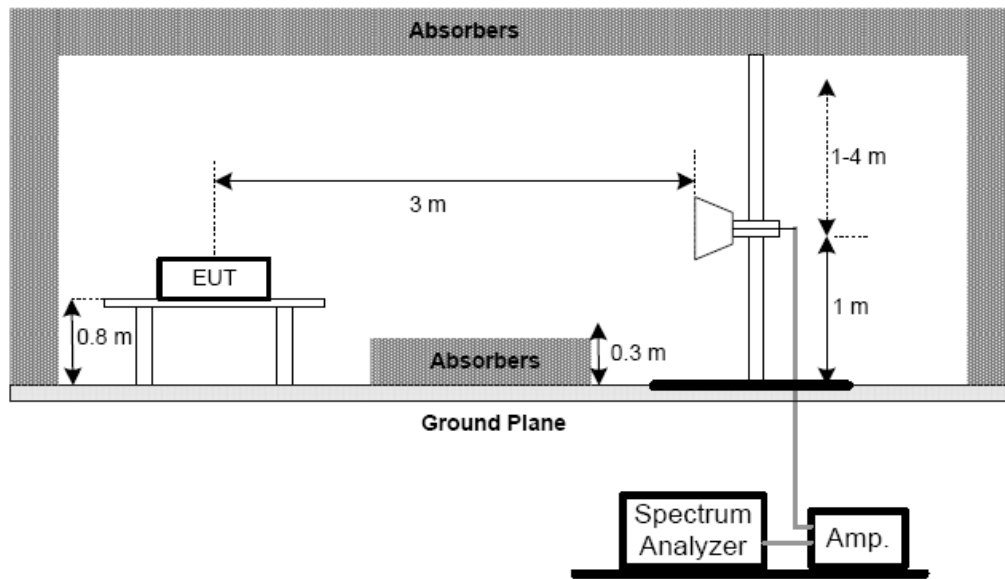
No deviation

#### 4.2.4 TEST SETUP

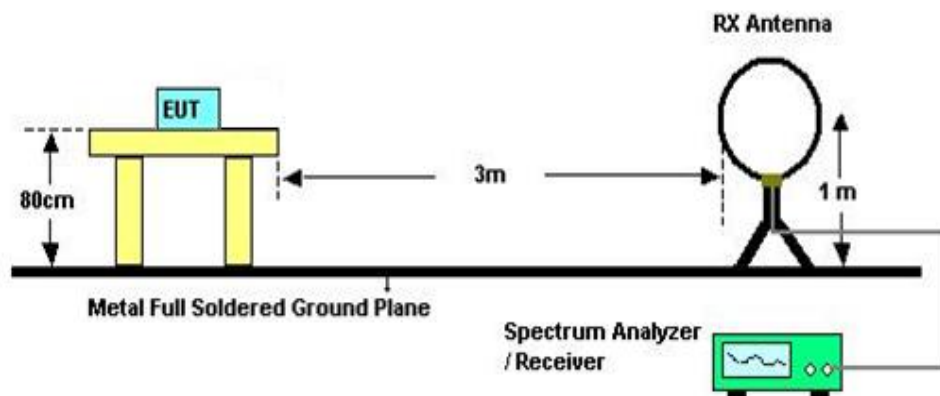
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

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

#### 4.2.6 EUT TEST CONDITIONS

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

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

Please refer to the Attachment B

Remark:

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

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

Please refer to the Attachment C.

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

Please refer to the Attachment D.

Remark:

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

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

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

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

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing. Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

#### 6.1.5 EUT TEST CONDITIONS

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

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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

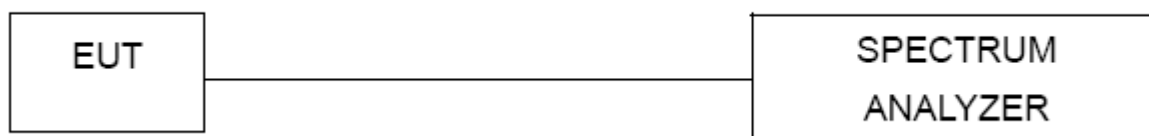
#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

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

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

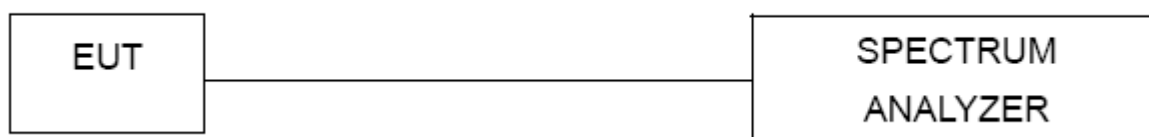
#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

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

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Mar. 28, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Mar. 28, 2016
8	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 21, 2016
12	Microwave Pre-amplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 21, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 28, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A



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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

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

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

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

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

## Radiated Measurement Photos

9KHz to 30MHz



## Radiated Measurement Photos

30MHz to 1000MHz



## Radiated Measurement Photos

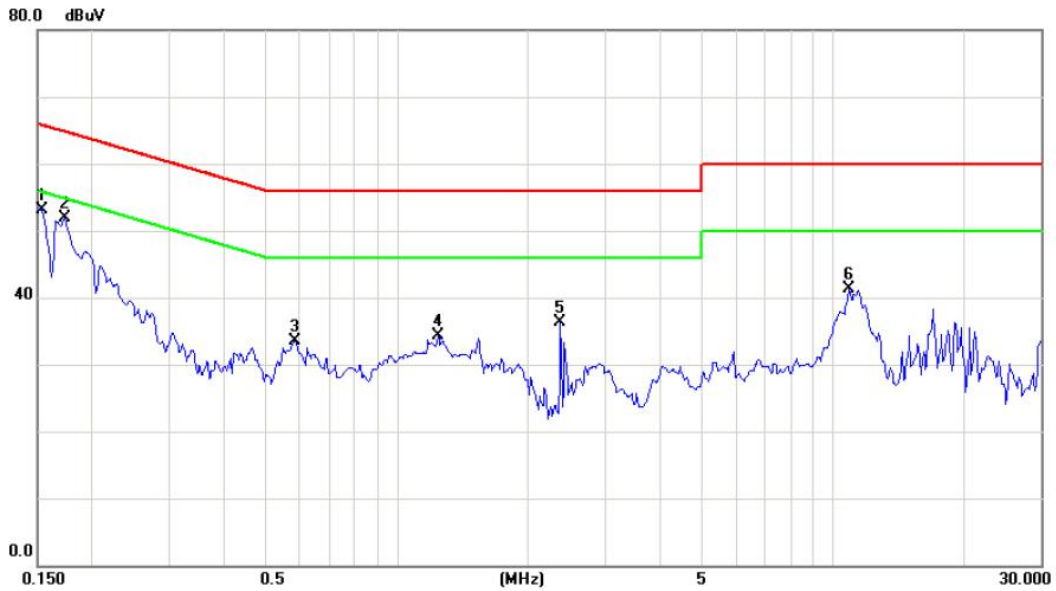
Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

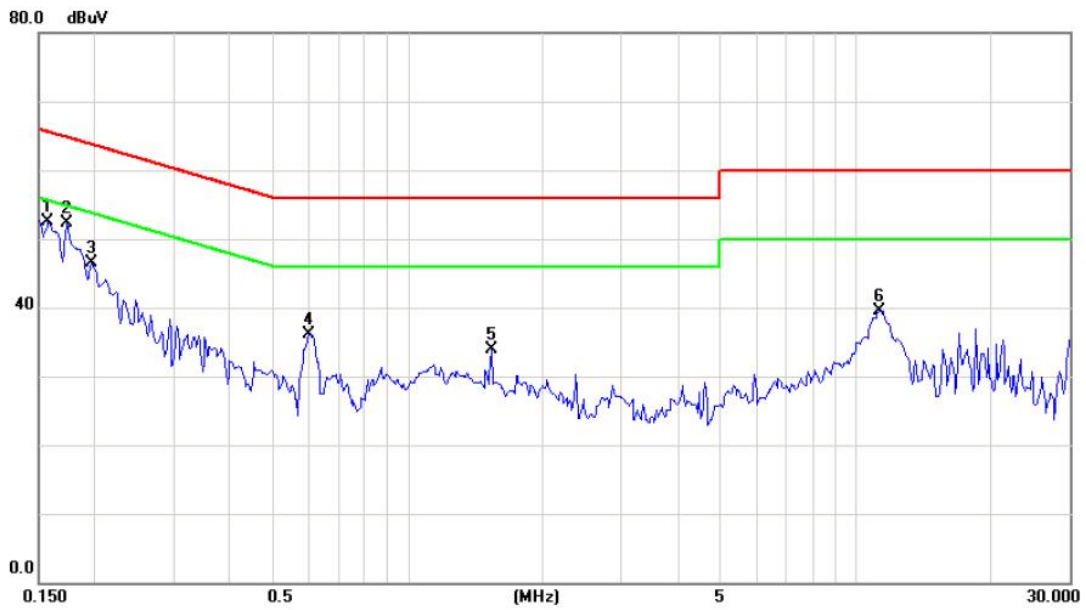
### Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1540	43.63	9.48	53.11	65.78	-12.67	peak	
2		0.1734	42.35	9.49	51.84	64.80	-12.96	peak	
3		0.5875	23.93	9.60	33.53	56.00	-22.47	peak	
4		1.2477	24.65	9.63	34.28	56.00	-21.72	peak	
5		2.3727	26.65	9.61	36.26	56.00	-19.74	peak	
6		10.8906	31.52	9.81	41.33	60.00	-18.67	peak	

Test Mode : TX MODE

### Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1578	42.85	9.59	52.44	65.58	-13.14	peak	
2	*	0.1734	42.81	9.58	52.39	64.80	-12.41	peak	
3		0.1970	37.00	9.57	46.57	63.74	-17.17	peak	
4		0.6031	26.61	9.58	36.19	56.00	-19.81	peak	
5		1.5367	24.20	9.62	33.82	56.00	-22.18	peak	
6		11.2656	29.75	9.83	39.58	60.00	-20.42	peak	



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

Test Mode:	TX Mode 2412MHz
------------	-----------------

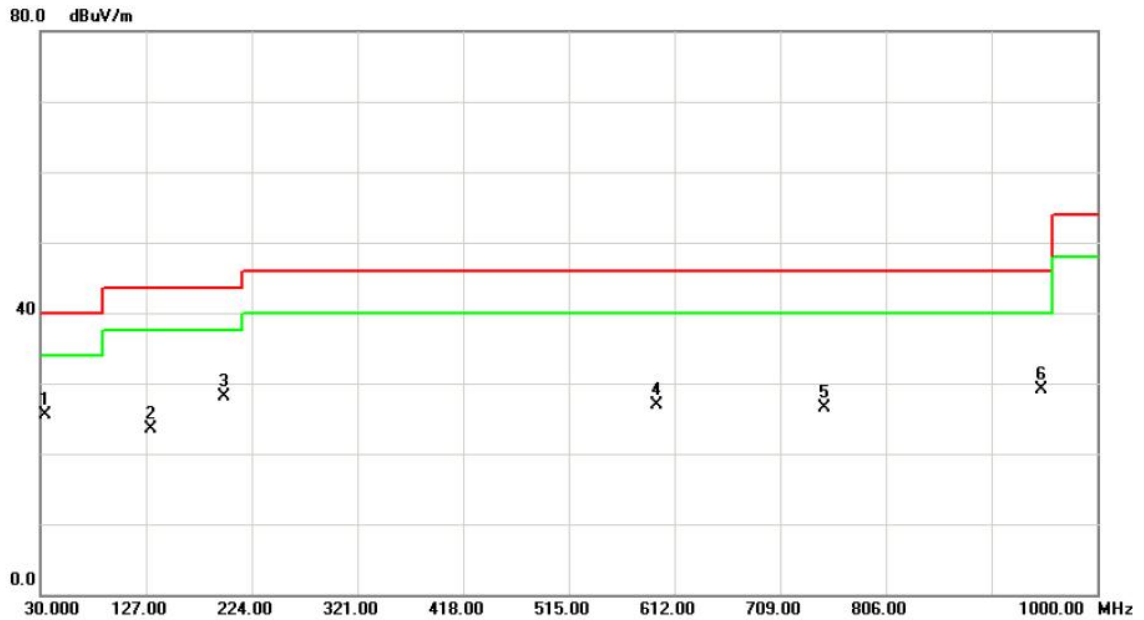
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0118	0°	10.06	24.30	34.36	126.20	-91.84	AVG
0.0118	0°	13.52	24.30	37.82	146.20	-108.38	PEAK
0.0283	0°	7.59	23.77	31.36	118.57	-87.20	AVG
0.0283	0°	9.24	23.77	33.01	138.57	-105.55	PEAK
0.0406	0°	5.36	23.00	28.36	115.43	-87.08	AVG
0.0406	0°	6.52	23.00	29.52	135.43	-105.92	PEAK
0.0517	0°	1.72	22.37	24.09	113.33	-89.25	AVG
0.0517	0°	2.58	22.37	24.95	133.33	-108.39	PEAK
0.6019	0°	18.23	20.13	38.36	72.01	-33.66	QP
2.0175	0°	24.19	19.49	43.68	69.54	-25.86	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0089	90°	7.26	24.30	31.56	128.62	-97.06	AVG
0.0089	90°	10.13	24.30	34.43	148.62	-114.19	PEAK
0.0185	90°	5.72	24.30	30.02	122.26	-92.24	AVG
0.0185	90°	6.18	24.30	30.48	142.26	-111.78	PEAK
0.0268	90°	2.05	23.87	25.92	119.04	-93.12	AVG
0.0268	90°	3.82	23.87	27.69	139.04	-111.35	PEAK
0.0431	90°	0.13	22.84	22.97	114.91	-91.95	AVG
0.0431	90°	1.52	22.84	24.36	134.91	-110.56	PEAK
0.4752	90°	20.07	19.86	39.93	94.07	-54.14	QP
1.9317	90°	25.36	19.51	44.87	69.54	-24.67	QP

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

Test Mode: TX B MODE CHANNEL 01

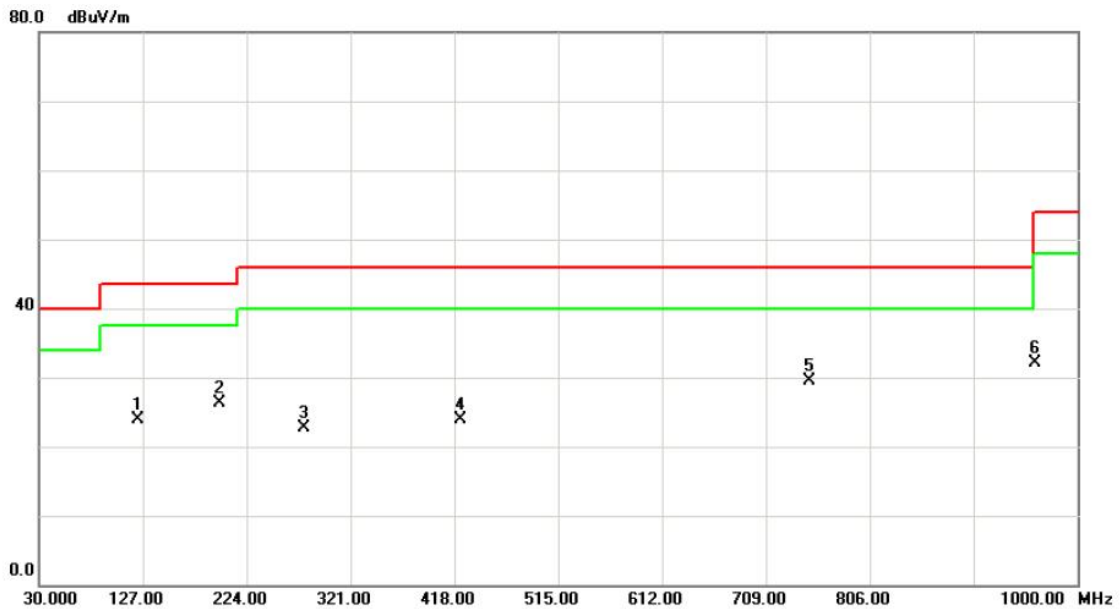
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	34.8500	40.19	-14.75	25.44	40.00	-14.56	peak	
2		131.8500	36.52	-13.08	23.44	43.50	-20.06	peak	
3		198.7800	43.07	-14.90	28.17	43.50	-15.33	peak	
4		595.5100	34.82	-7.91	26.91	46.00	-19.09	peak	
5		749.7400	31.10	-4.63	26.47	46.00	-19.53	peak	
6		948.5900	29.39	-0.25	29.14	46.00	-16.86	peak	

Test Mode: TX B MODE CHANNEL 01

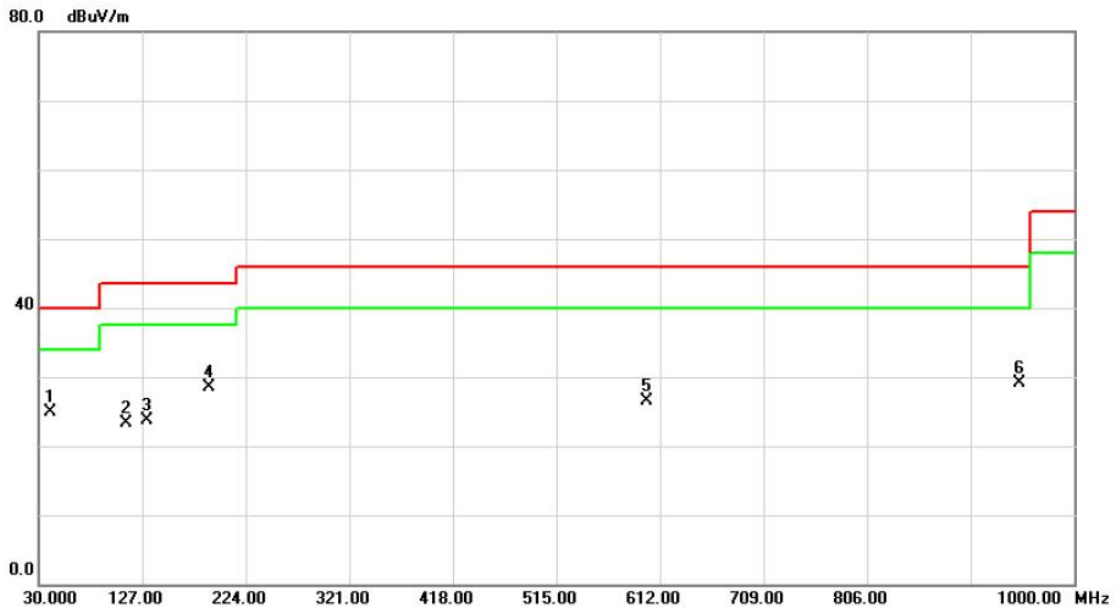
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		122.1500	37.93	-13.96	23.97	43.50	-19.53	peak	
2		198.7800	41.15	-14.90	26.25	43.50	-17.25	peak	
3		277.3500	35.17	-12.54	22.63	46.00	-23.37	peak	
4		423.8200	33.10	-9.10	24.00	46.00	-22.00	peak	
5	*	749.7400	34.08	-4.63	29.45	46.00	-16.55	peak	
6		960.2300	32.42	-0.25	32.17	54.00	-21.83	peak	

Test Mode: TX B MODE CHANNEL 06

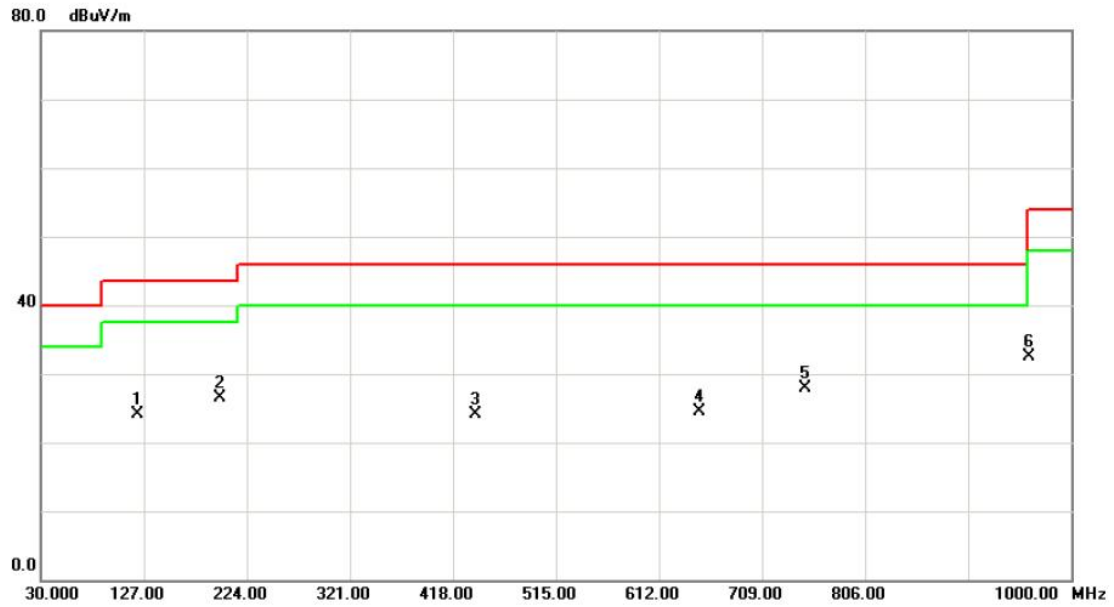
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	40.6700	39.14	-14.16	24.98	40.00	-15.02	peak	
2		112.4500	38.26	-15.02	23.24	43.50	-20.26	peak	
3		130.8800	36.77	-13.07	23.70	43.50	-19.80	peak	
4		190.0500	42.78	-14.35	28.43	43.50	-15.07	peak	
5		599.3900	34.42	-7.91	26.51	46.00	-19.49	peak	
6		948.5900	29.26	-0.25	29.01	46.00	-16.99	peak	

Test Mode: TX B MODE CHANNEL 06

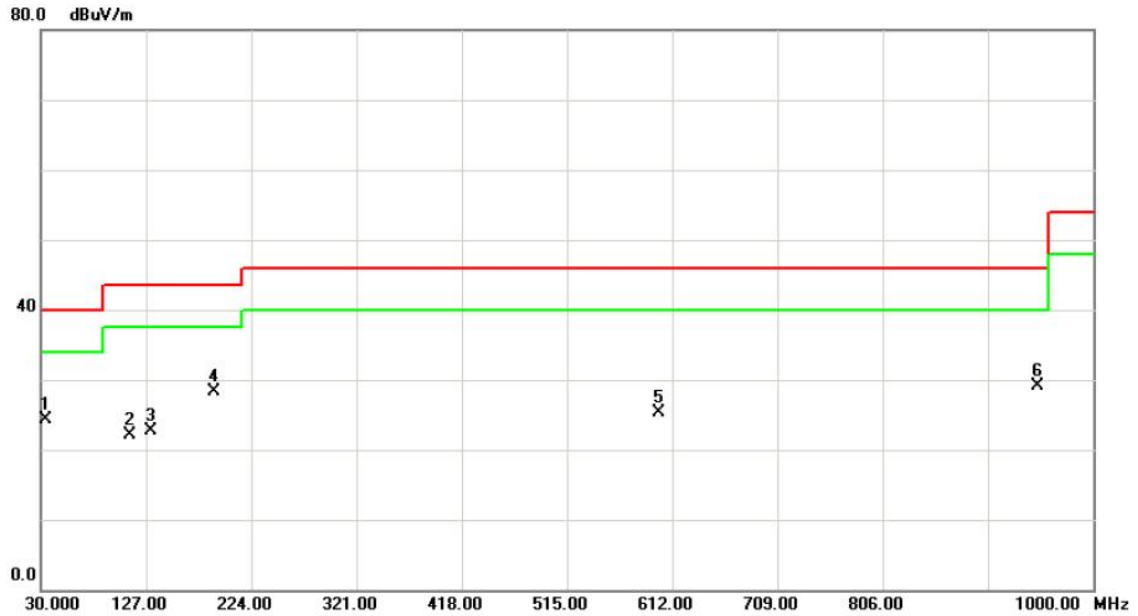
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		121.1800	38.21	-14.08	24.13	43.50	-19.37	peak	
2	*	198.7800	41.37	-14.90	26.47	43.50	-17.03	peak	
3		439.3400	32.94	-8.82	24.12	46.00	-21.88	peak	
4		649.8300	29.59	-5.16	24.43	46.00	-21.57	peak	
5		749.7400	32.54	-4.63	27.91	46.00	-18.09	peak	
6		960.2300	32.84	-0.25	32.59	54.00	-21.41	peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

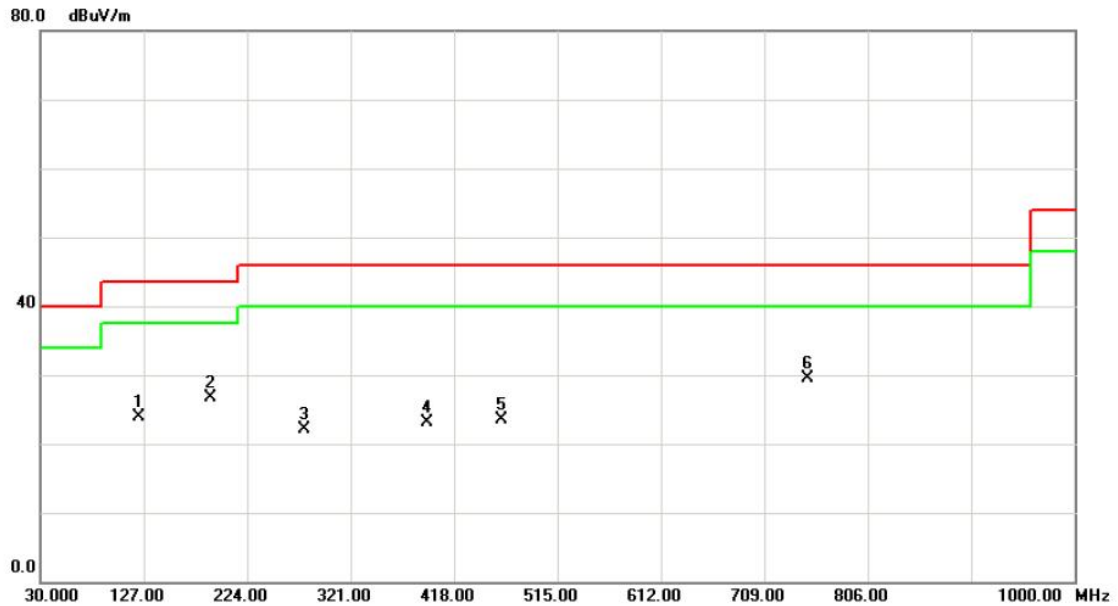


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		34.8500	39.09	-14.75	24.34	40.00	-15.66	peak	
2		112.4500	37.21	-15.02	22.19	43.50	-21.31	peak	
3		130.8800	35.80	-13.07	22.73	43.50	-20.77	peak	
4	*	190.0500	42.59	-14.35	28.24	43.50	-15.26	peak	
5		599.3900	33.28	-7.91	25.37	46.00	-20.63	peak	
6		948.5900	29.43	-0.25	29.18	46.00	-16.82	peak	



Test Mode: TX B MODE CHANNEL 11

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		122.1500	37.78	-13.96	23.82	43.50	-19.68	peak	
2		190.0500	40.96	-14.35	26.61	43.50	-16.89	peak	
3		277.3500	34.58	-12.54	22.04	46.00	-23.96	peak	
4		392.7800	32.90	-9.86	23.04	46.00	-22.96	peak	
5		462.6200	32.65	-9.10	23.55	46.00	-22.45	peak	
6	*	749.7400	34.22	-4.63	29.59	46.00	-16.41	peak	

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

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

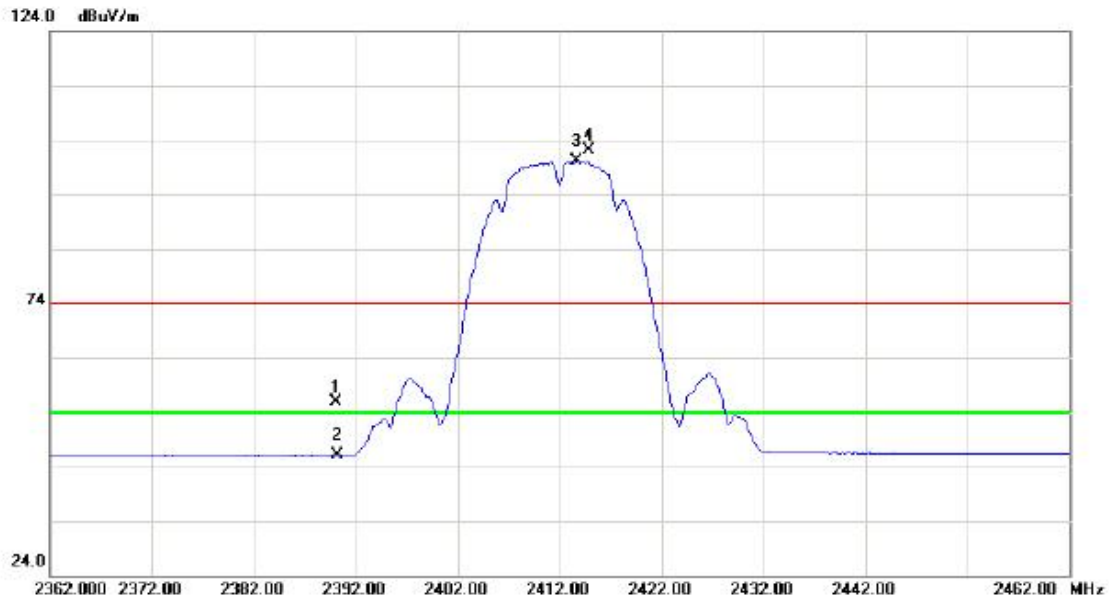
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.800	44.40	3.62	48.02	74.00	-25.98	peak	
2	*	4823.990	37.52	3.62	41.14	54.00	-12.86	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.02	31.88	55.90	74.00	-18.10	peak	
2		2390.000	14.18	31.88	46.06	54.00	-7.94	AVG	
3	*	2413.700	68.13	31.91	100.04	54.00	46.04	AVG	No Limit
4	X	2414.800	70.33	31.91	102.24	74.00	28.24	peak	No Limit

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

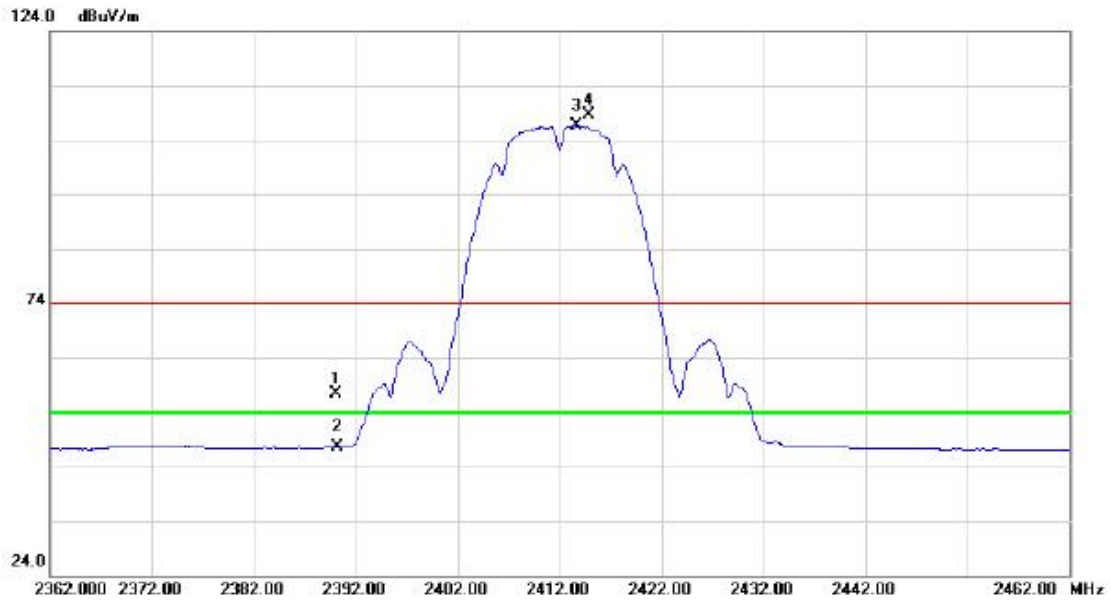
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.740	42.96	3.62	46.58	74.00	-27.42	peak	
2	*	4823.960	35.42	3.62	39.04	54.00	-14.96	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.40	31.88	57.28	74.00	-16.72	peak	
2		2390.000	15.71	31.88	47.59	54.00	-6.41	AVG	
3	*	2413.700	74.60	31.91	106.51	54.00	52.51	AVG	No Limit
4	X	2414.800	76.81	31.91	108.72	74.00	34.72	peak	No Limit

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

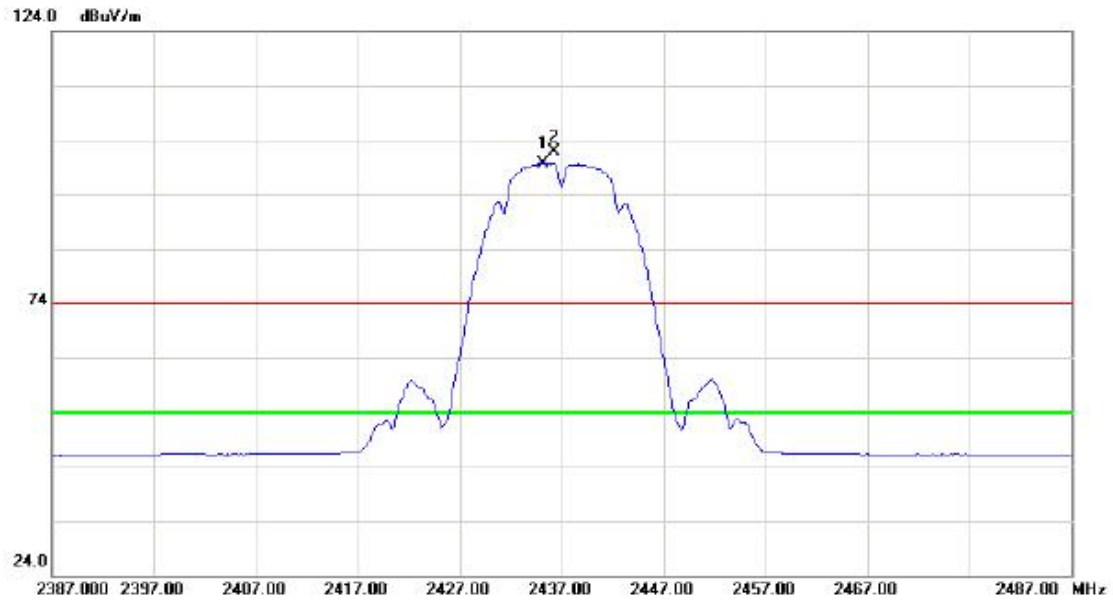
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.910	43.58	3.72	47.30	74.00	-26.70	peak	
2	*	4873.980	37.13	3.72	40.85	54.00	-13.15	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2435.200	67.80	31.94	99.74	54.00	45.74	AVG	No Limit
2	X	2436.300	69.92	31.94	101.86	74.00	27.86	peak	No Limit



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

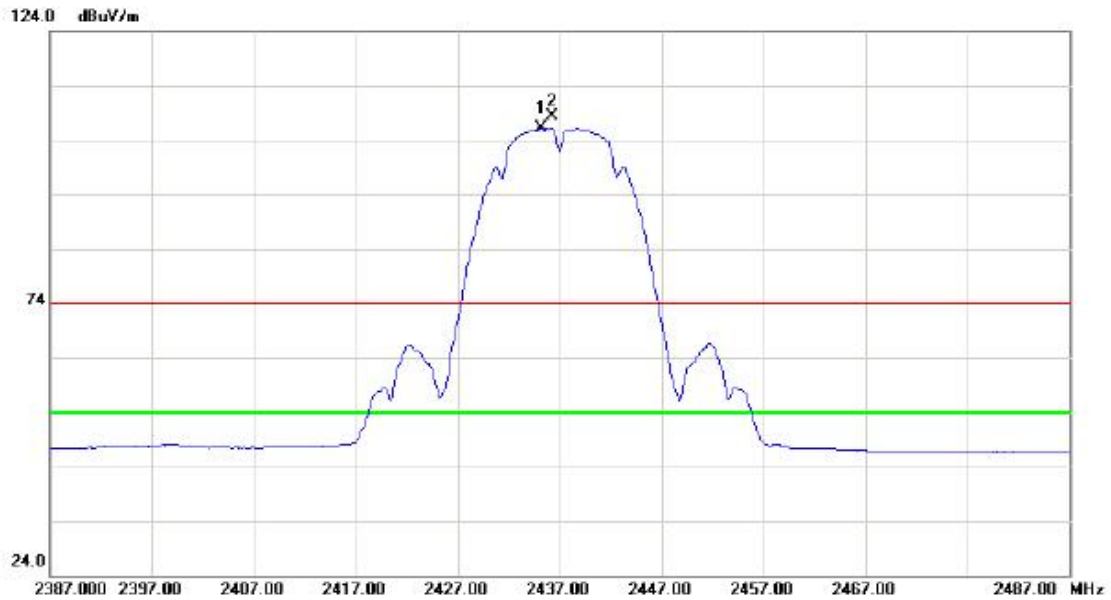
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.810	41.53	3.72	45.25	74.00	-28.75	peak	
2	*	4873.940	33.11	3.72	36.83	54.00	-17.17	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2435.200	74.25	31.94	106.19	54.00	52.19	AVG	No Limit
2	X	2436.200	76.39	31.94	108.33	74.00	34.33	peak	No Limit

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

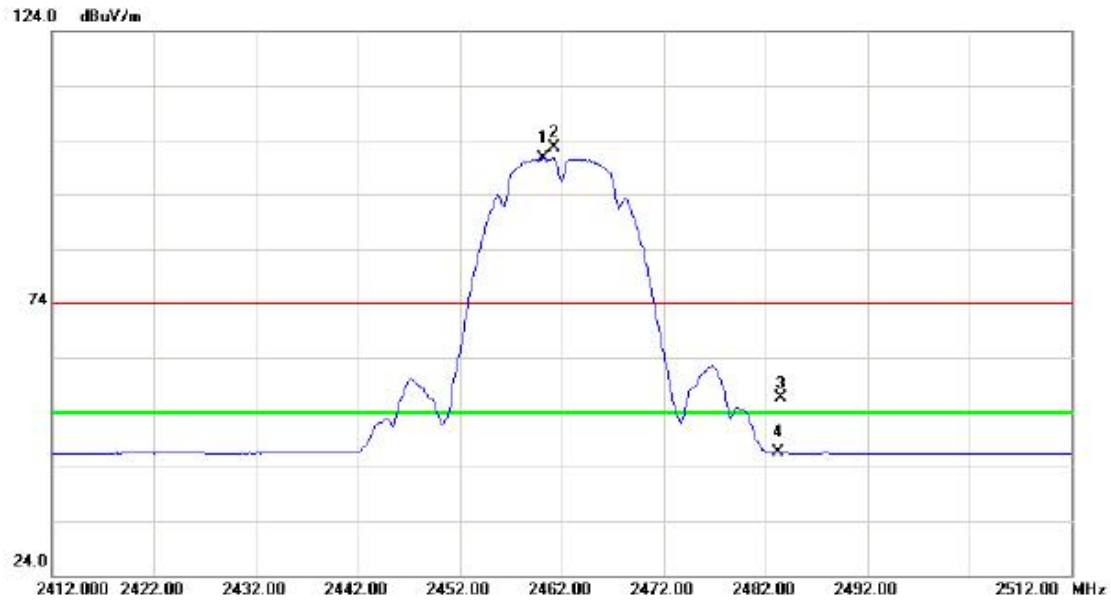
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.970	43.07	3.80	46.87	74.00	-27.13	peak	
2	*	4923.980	37.85	3.80	41.65	54.00	-12.35	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2460.200	68.63	31.98	100.61	54.00	46.61	AVG	No Limit
2	X	2461.200	70.73	31.98	102.71	74.00	28.71	peak	No Limit
3		2483.500	24.72	32.01	56.73	74.00	-17.27	peak	
4		2483.500	14.70	32.01	46.71	54.00	-7.29	AVG	

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

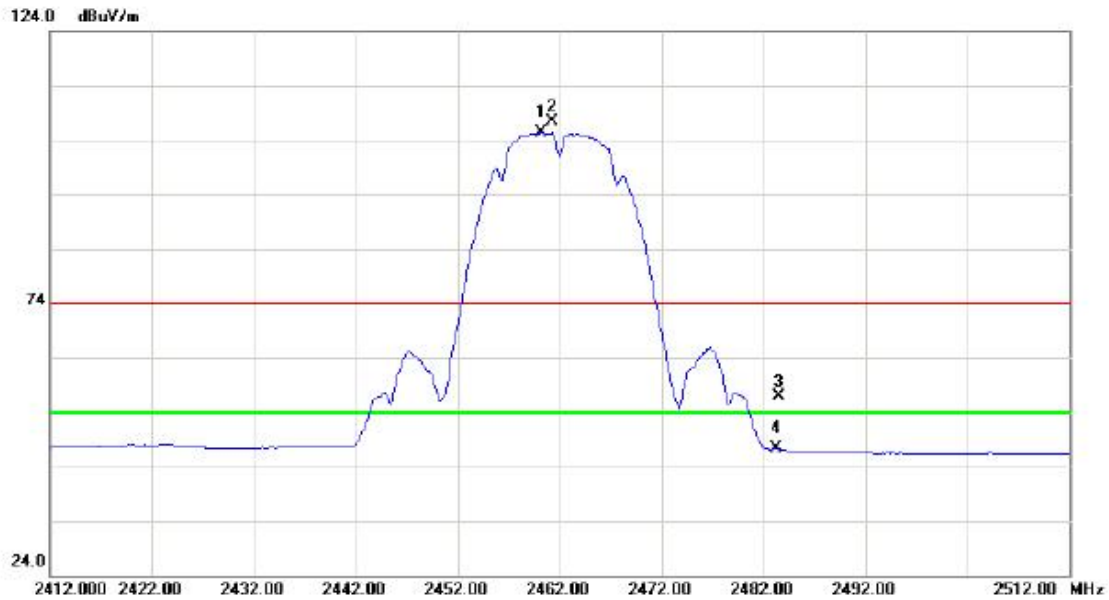
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.940	34.28	3.80	38.08	54.00	-15.92	AVG	
2		4924.100	42.17	3.80	45.97	74.00	-28.03	peak	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2460.200	73.39	31.98	105.37	54.00	51.37	AVG	No Limit
2	X	2461.200	75.45	31.98	107.43	74.00	33.43	peak	No Limit
3		2483.500	24.89	32.01	56.90	74.00	-17.10	peak	
4		2483.500	15.40	32.01	47.41	54.00	-6.59	AVG	

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

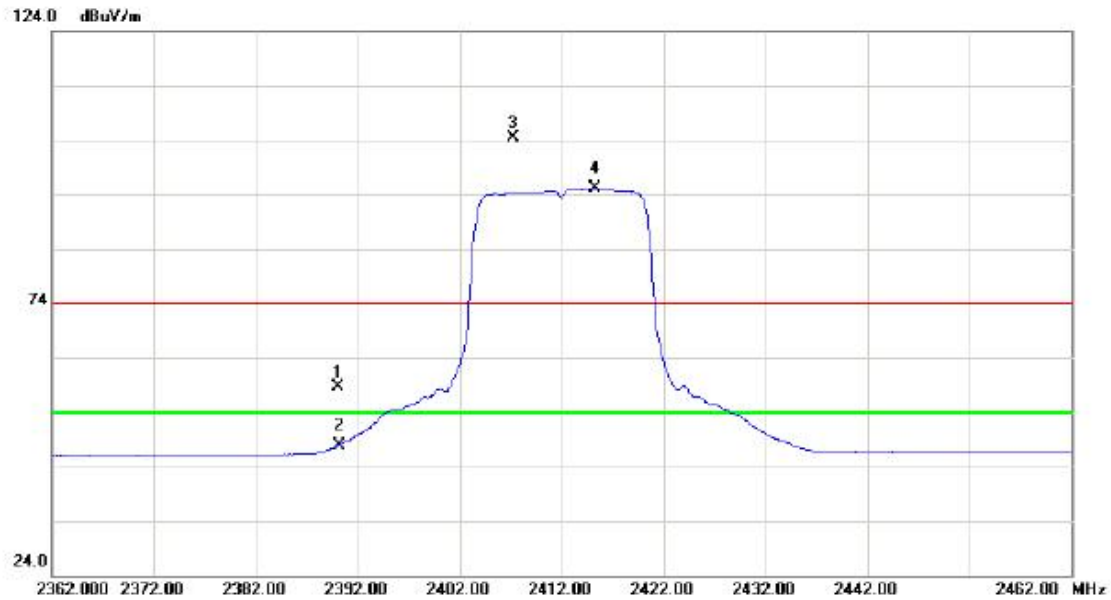
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.950	40.54	3.62	44.16	74.00	-29.84	peak	
2	*	4824.030	29.89	3.62	33.51	54.00	-20.49	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.82	31.88	58.70	74.00	-15.30	peak	
2		2390.000	16.04	31.88	47.92	54.00	-6.08	AVG	
3	X	2407.300	72.41	31.91	104.32	74.00	30.32	peak	No Limit
4	*	2415.300	63.19	31.91	95.10	54.00	41.10	AVG	No Limit



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

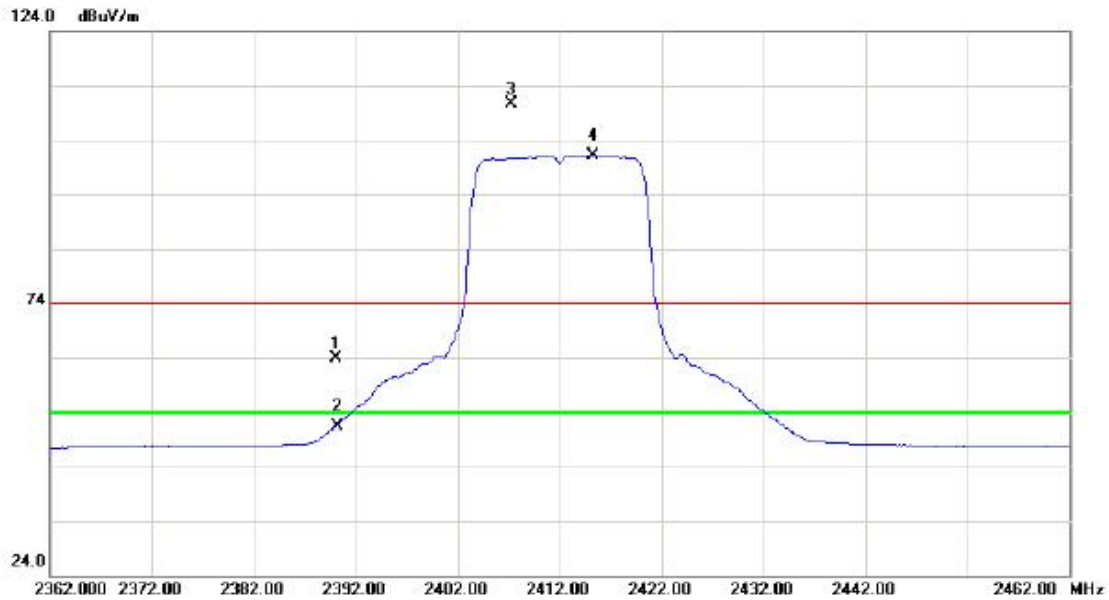
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.120	37.91	3.62	41.53	74.00	-32.47	peak	
2	*	4824.120	29.47	3.62	33.09	54.00	-20.91	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	32.12	31.88	64.00	74.00	-10.00	peak	
2		2390.000	19.50	31.88	51.38	54.00	-2.62	AVG	
3	X	2407.300	78.80	31.91	110.71	74.00	36.71	peak	No Limit
4	*	2415.300	69.34	31.91	101.25	54.00	47.25	AVG	No Limit

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

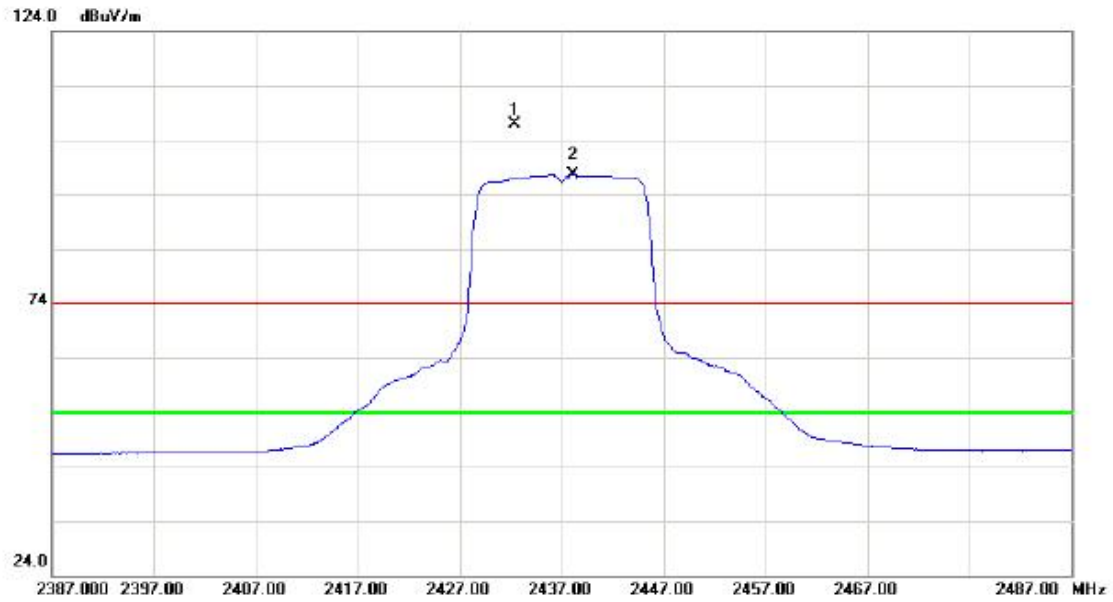
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.820	39.66	3.72	43.38	74.00	-30.62	peak	
2	*	4873.820	30.99	3.72	34.71	54.00	-19.29	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2432.400	74.92	31.94	106.86	74.00	32.86	peak	No Limit
2	*	2438.100	65.62	31.94	97.56	54.00	43.56	AVG	No Limit

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

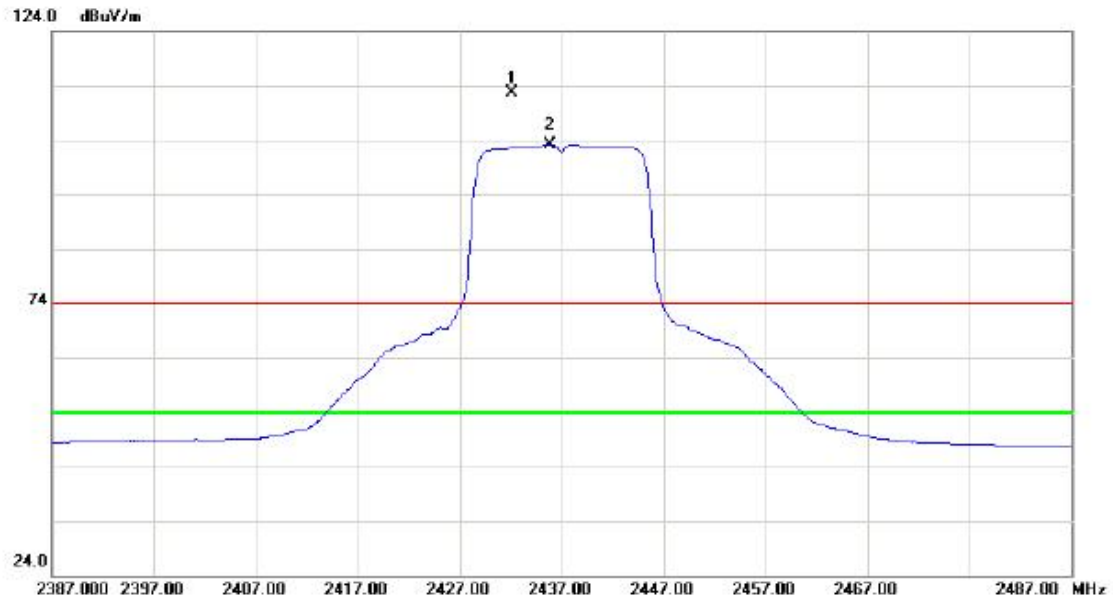
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.950	40.40	3.72	44.12	74.00	-29.88	peak	
2	*	4873.950	29.34	3.72	33.06	54.00	-20.94	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2432.100	80.70	31.94	112.64	74.00	38.64	peak	No Limit
2	*	2435.900	71.22	31.94	103.16	54.00	49.16	AVG	No Limit

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

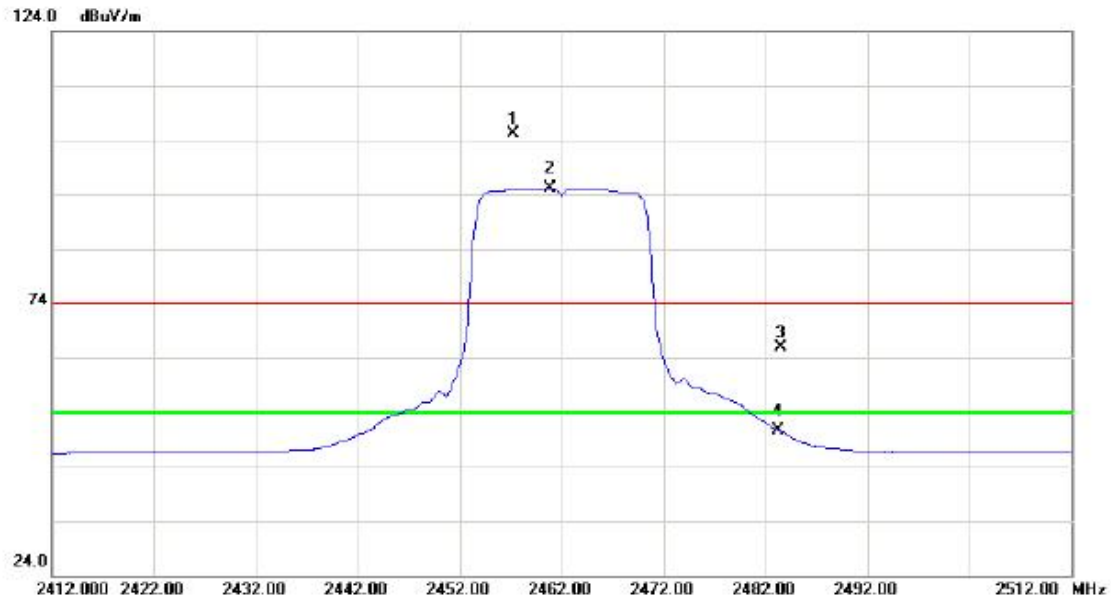
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.900	39.28	3.80	43.08	74.00	-30.92	peak	
2	*	4923.900	29.72	3.80	33.52	54.00	-20.48	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.300	73.20	31.98	105.18	74.00	31.18	peak	No Limit
2	*	2460.900	63.19	31.98	95.17	54.00	41.17	AVG	No Limit
3		2483.500	33.89	32.01	65.90	74.00	-8.10	peak	
4		2483.500	18.51	32.01	50.52	54.00	-3.48	AVG	



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

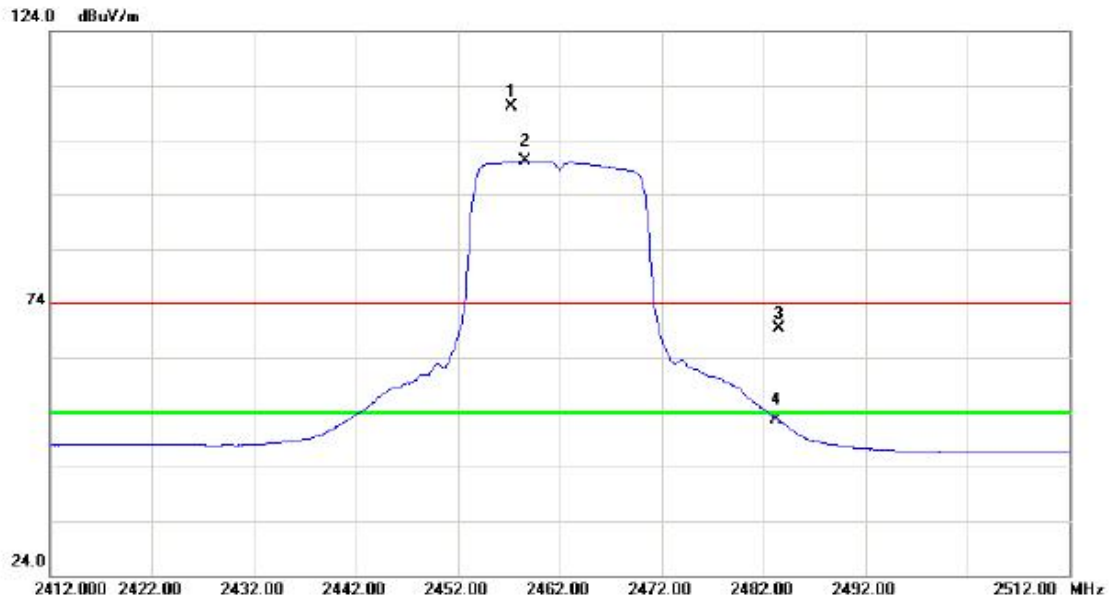
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	37.86	3.80	41.66	74.00	-32.34	peak	
2	*	4924.000	28.98	3.80	32.78	54.00	-21.22	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.200	78.21	31.98	110.19	74.00	36.19	peak	No Limit
2	*	2458.600	68.09	31.98	100.07	54.00	46.07	AVG	No Limit
3		2483.500	37.44	32.01	69.45	74.00	-4.55	peak	
4		2483.500	20.61	32.01	52.62	54.00	-1.38	AVG	

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

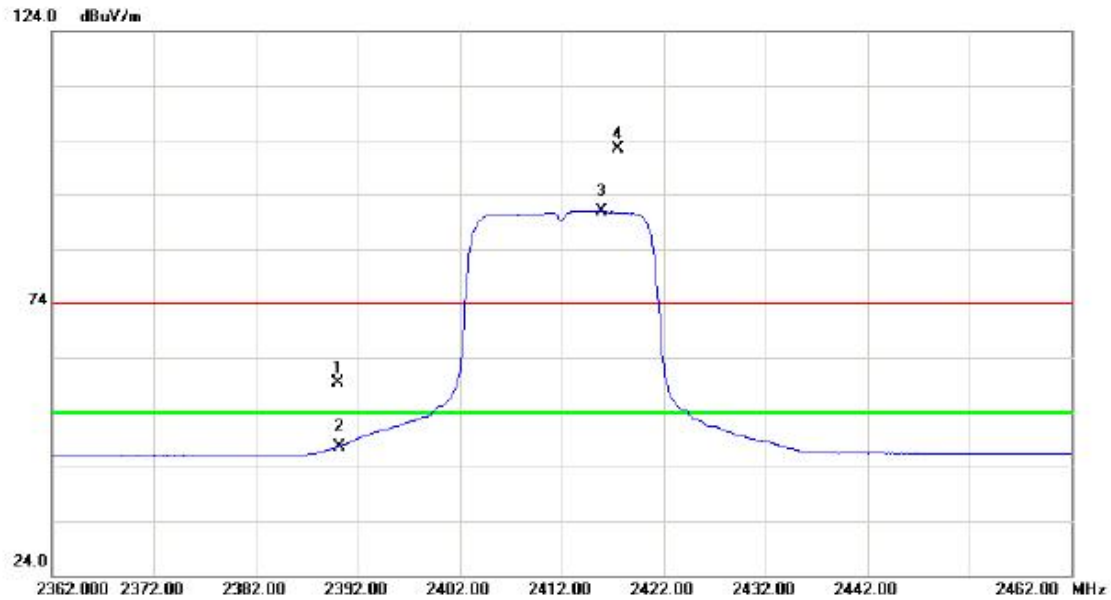
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.980	39.74	3.62	43.36	74.00	-30.64	peak	
2	*	4823.980	30.64	3.62	34.26	54.00	-19.74	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.45	31.88	59.33	74.00	-14.67	peak	
2		2390.000	15.80	31.88	47.68	54.00	-6.32	AVG	
3	*	2415.900	58.97	31.91	90.88	54.00	36.88	AVG	No Limit
4	X	2417.500	70.55	31.91	102.46	74.00	28.46	peak	No Limit

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

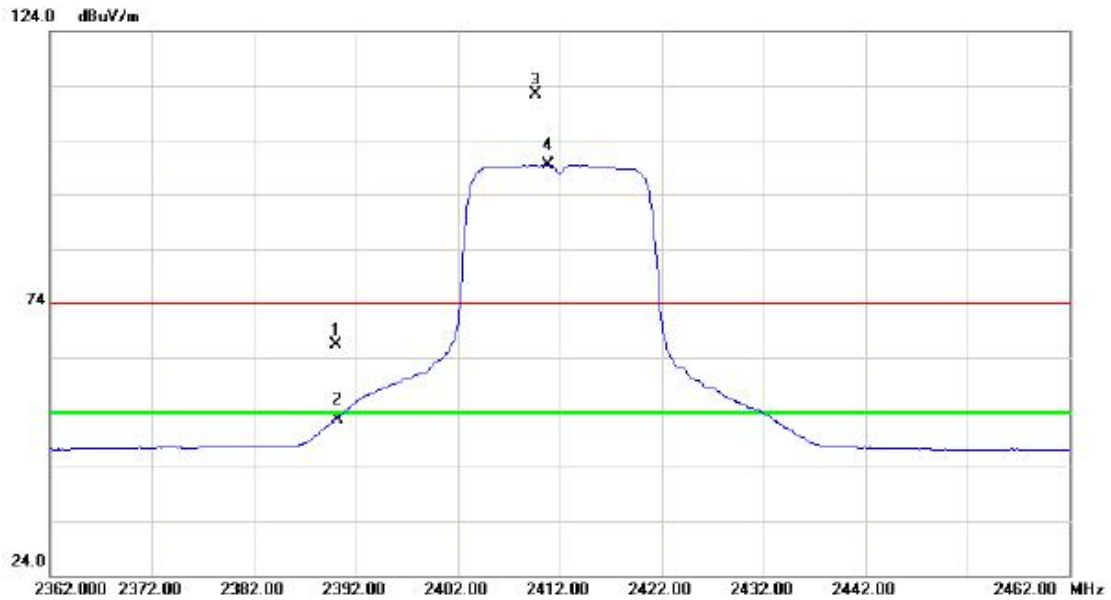
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.970	40.22	3.62	43.84	74.00	-30.16	peak	
2	*	4823.970	30.68	3.62	34.30	54.00	-19.70	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	34.52	31.88	66.40	74.00	-7.60	peak	
2		2390.000	20.79	31.88	52.67	54.00	-1.33	AVG	
3	X	2409.700	80.53	31.91	112.44	74.00	38.44	peak	No Limit
4	*	2410.900	67.56	31.91	99.47	54.00	45.47	AVG	No Limit

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

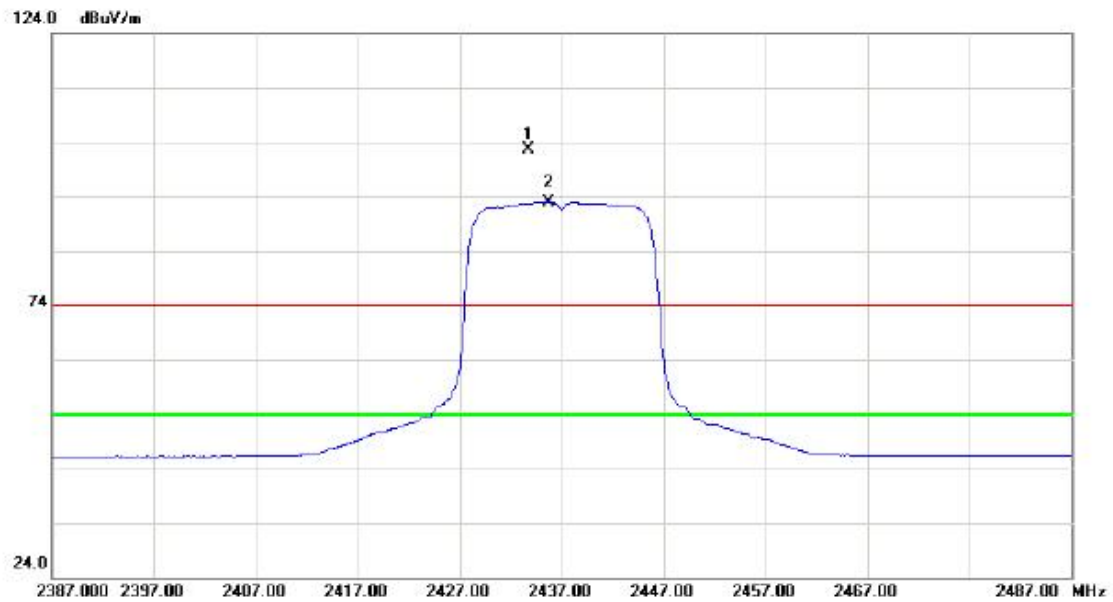
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4874.010	29.59	3.72	33.31	54.00	-20.69	AVG	
2		4874.030	40.33	3.72	44.05	74.00	-29.95	peak	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2433.700	70.60	31.94	102.54	74.00	28.54	peak	No Limit
2	*	2435.700	61.01	31.94	92.95	54.00	38.95	AVG	No Limit



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

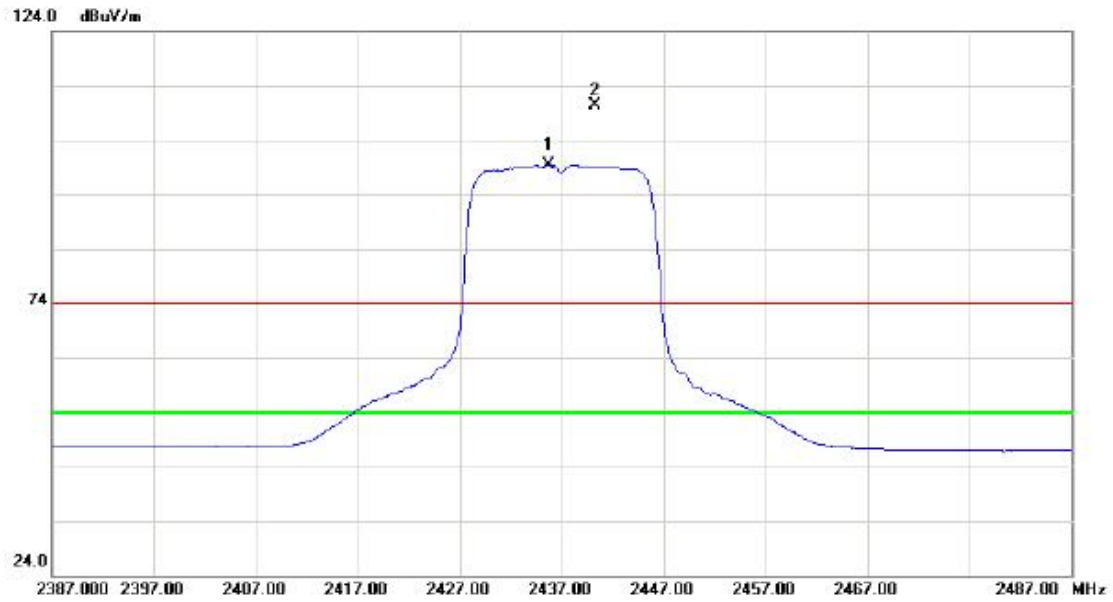
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.960	39.66	3.72	43.38	74.00	-30.62	peak	
2	*	4874.010	29.78	3.72	33.50	54.00	-20.50	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2435.700	67.47	31.94	99.41	54.00	45.41	AVG	No Limit
2	X	2440.300	78.31	31.95	110.26	74.00	36.26	peak	No Limit

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

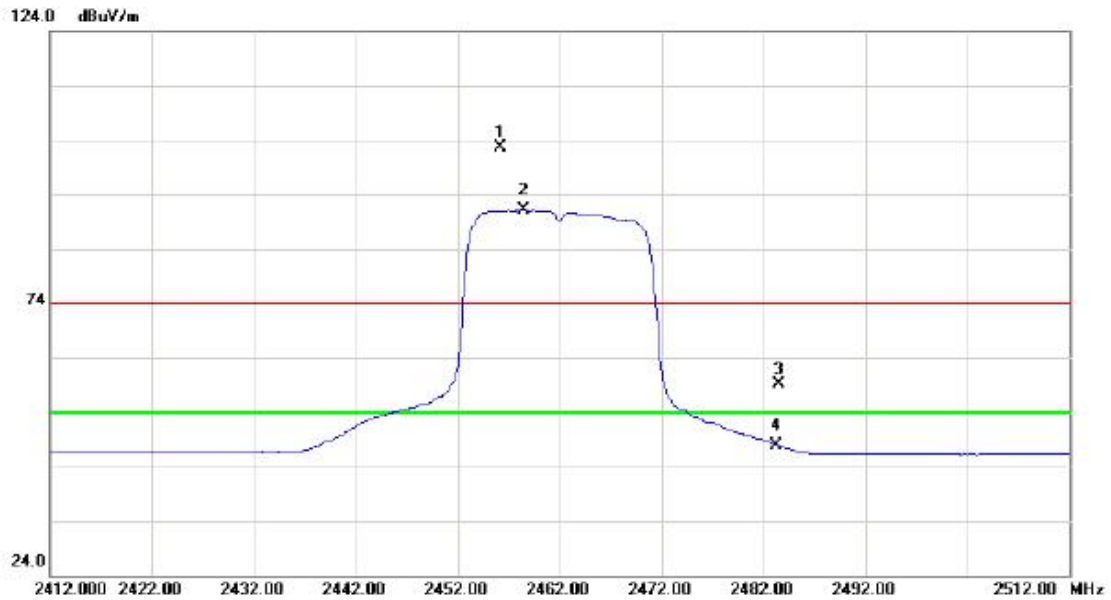
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.990	38.98	3.80	42.78	74.00	-31.22	peak	
2	*	4923.990	29.89	3.80	33.69	54.00	-20.31	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2456.200	70.67	31.96	102.63	74.00	28.63	peak	No Limit
2	*	2458.400	59.13	31.98	91.11	54.00	37.11	AVG	No Limit
3		2483.500	27.16	32.01	59.17	74.00	-14.83	peak	
4		2483.500	15.87	32.01	47.88	54.00	-6.12	AVG	

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

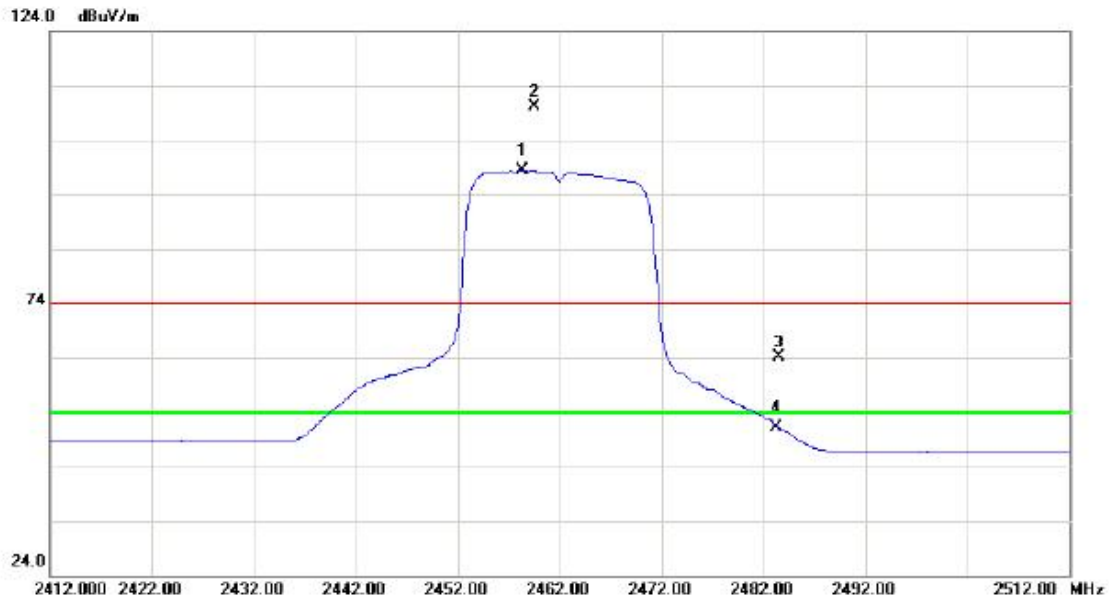
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	38.75	3.80	42.55	74.00	-31.45	peak	
2	*	4924.000	29.61	3.80	33.41	54.00	-20.59	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.300	66.39	31.98	98.37	54.00	44.37	AVG	No Limit
2	X	2459.500	78.19	31.98	110.17	74.00	36.17	peak	No Limit
3		2483.500	32.08	32.01	64.09	74.00	-9.91	peak	
4		2483.500	19.17	32.01	51.18	54.00	-2.82	AVG	

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

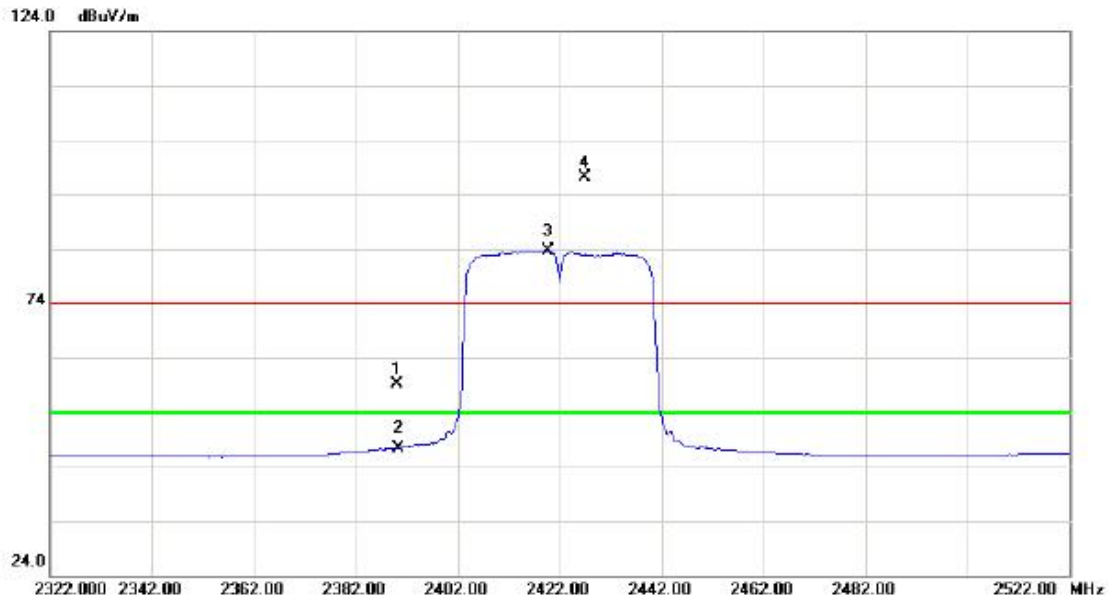
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.020	39.49	3.66	43.15	74.00	-30.85	peak	
2	*	4844.020	29.39	3.66	33.05	54.00	-20.95	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.22	31.88	59.10	74.00	-14.90	peak	
2		2390.000	15.56	31.88	47.44	54.00	-6.56	AVG	
3	*	2419.600	51.64	31.92	83.56	54.00	29.56	AVG	No Limit
4	X	2426.800	65.24	31.93	97.17	74.00	23.17	peak	No Limit



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

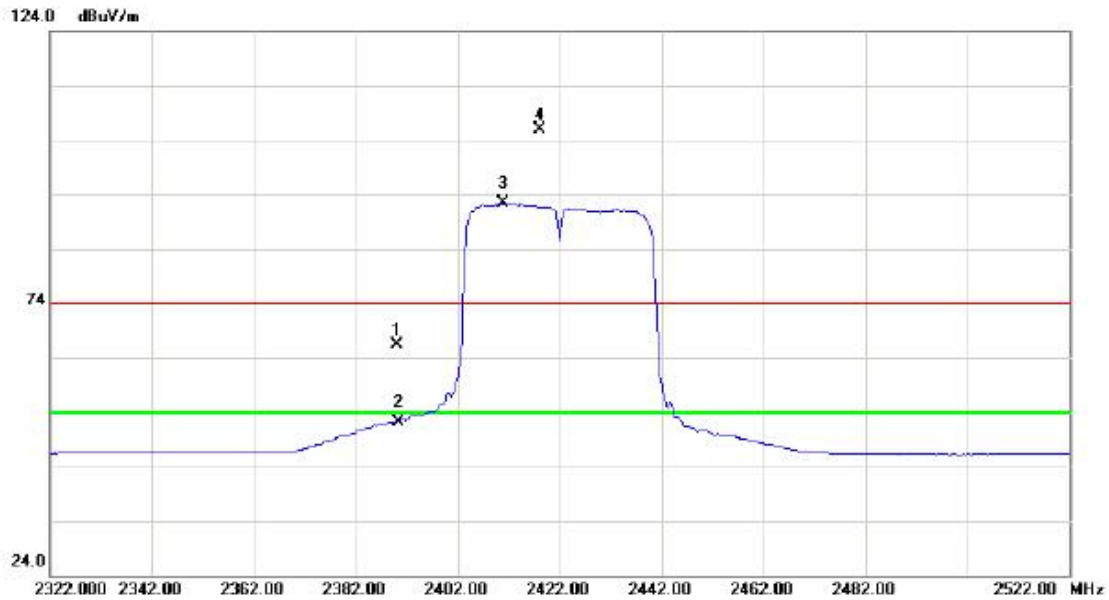
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.000	38.74	3.66	42.40	74.00	-31.60	peak	
2	*	4844.000	29.32	3.66	32.98	54.00	-21.02	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	34.39	31.88	66.27	74.00	-7.73	peak	
2		2390.000	20.34	31.88	52.22	54.00	-1.78	AVG	
3	*	2410.800	60.35	31.91	92.26	54.00	38.26	AVG	No Limit
4	X	2418.200	74.06	31.91	105.97	74.00	31.97	peak	No Limit

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

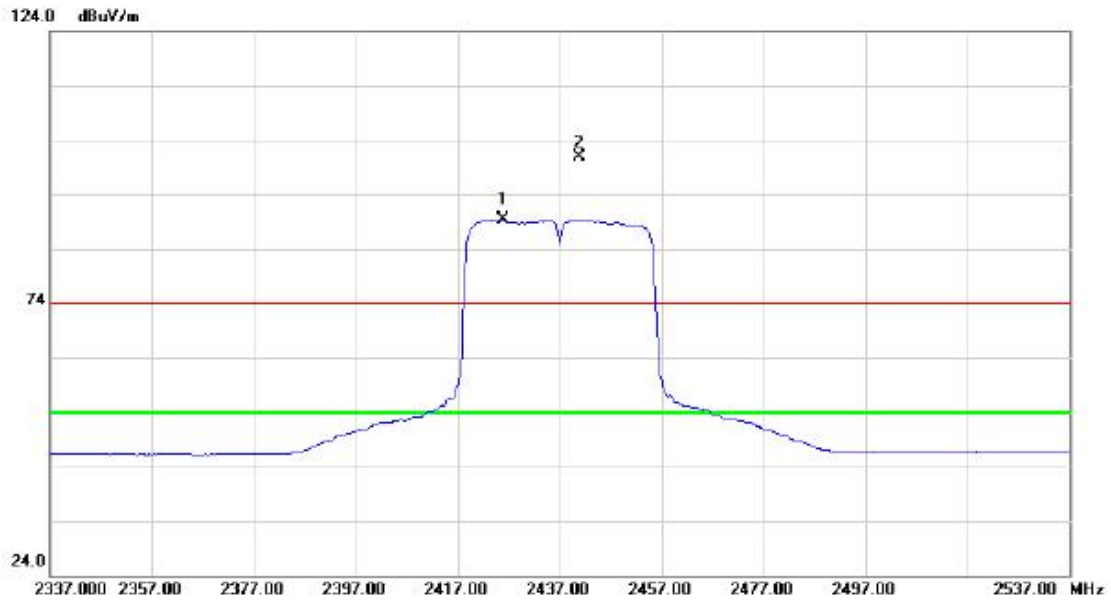
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.100	38.83	3.72	42.55	74.00	-31.45	peak	
2	*	4874.100	29.43	3.72	33.15	54.00	-20.85	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2425.800	57.41	31.93	89.34	54.00	35.34	AVG	No Limit
2	X	2440.800	69.01	31.95	100.96	74.00	26.96	peak	No Limit

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

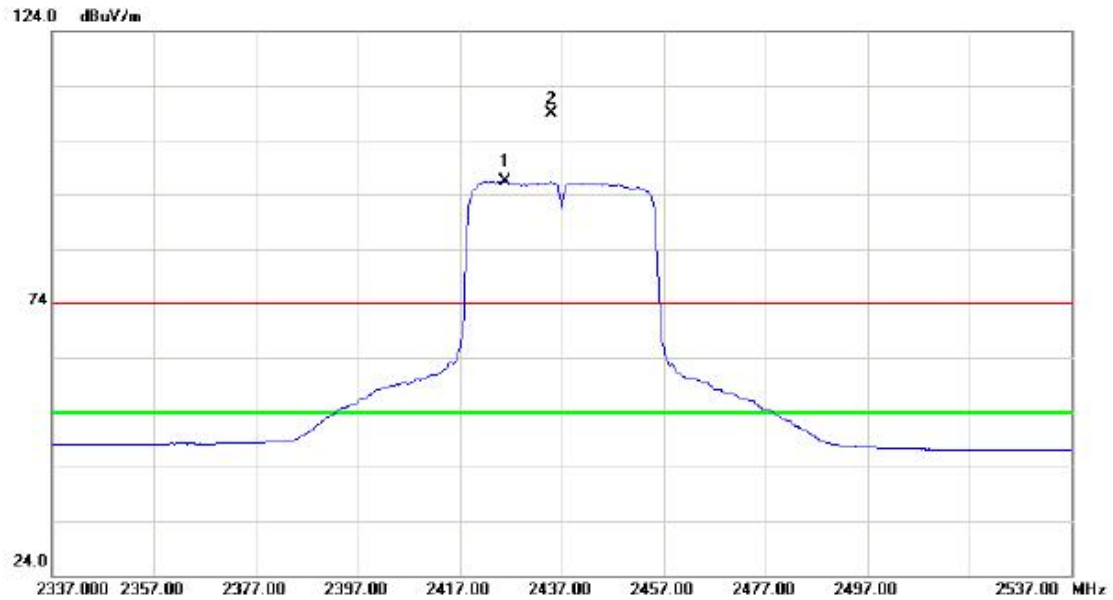
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.030	40.20	3.72	43.92	74.00	-30.08	peak	
2	*	4874.040	29.20	3.72	32.92	54.00	-21.08	AVG	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2425.800	64.51	31.93	96.44	54.00	42.44	AVG	No Limit
2	X	2435.000	76.96	31.94	108.90	74.00	34.90	peak	No Limit

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

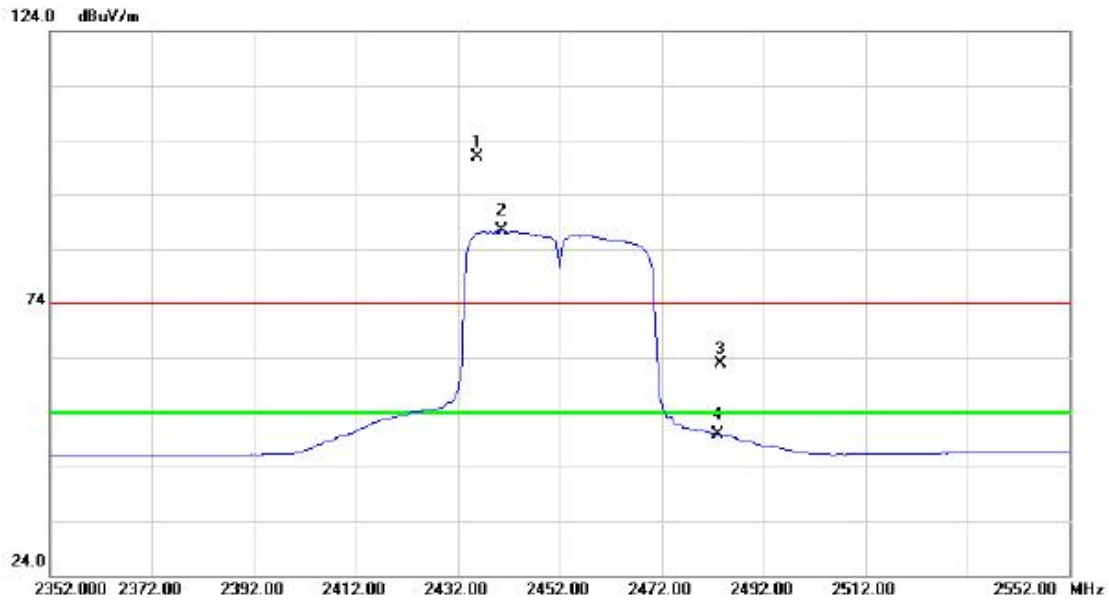
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4903.900	39.47	3.77	43.24	74.00	-30.76	peak	
2	*	4903.900	29.13	3.77	32.90	54.00	-21.10	AVG	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2435.800	68.99	31.94	100.93	74.00	26.93	peak	No Limit
2	*	2440.600	55.37	31.95	87.32	54.00	33.32	AVG	No Limit
3		2483.500	30.78	32.01	62.79	74.00	-11.21	peak	
4		2483.500	17.92	32.01	49.93	54.00	-4.07	AVG	



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

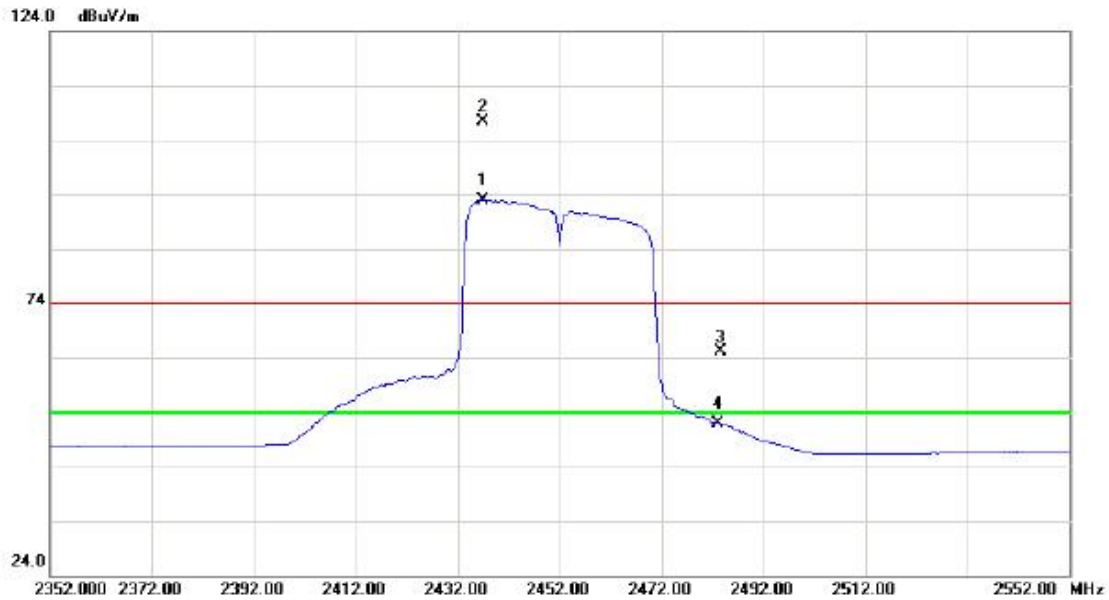
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4904.010	37.21	3.77	40.98	74.00	-33.02	peak	
2	*	4904.010	28.83	3.77	32.60	54.00	-21.40	AVG	

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

### Horizontal



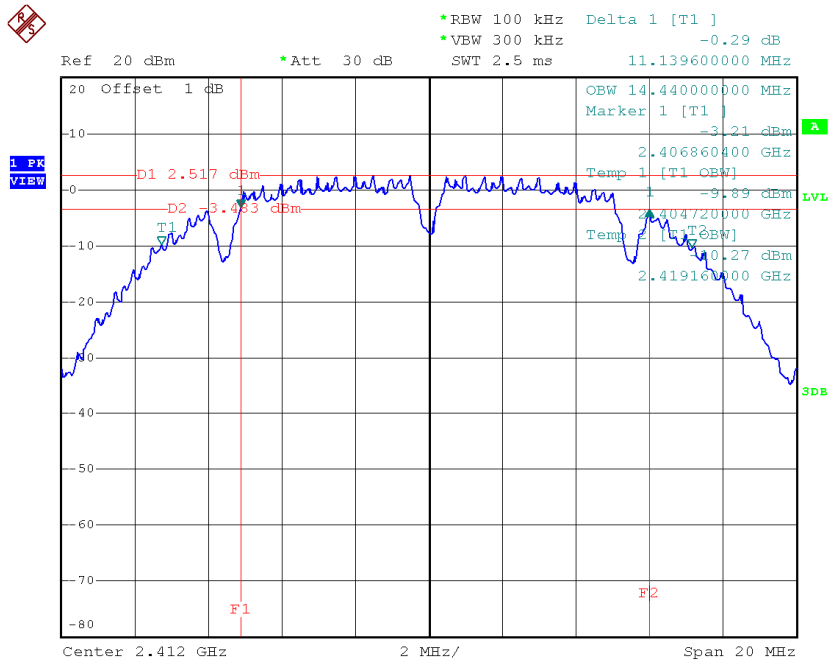
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2436.800	61.06	31.94	93.00	54.00	39.00	AVG	No Limit
2	X	2437.000	75.45	31.94	107.39	74.00	33.39	peak	No Limit
3		2483.500	33.16	32.01	65.17	74.00	-8.83	peak	
4		2483.500	19.91	32.01	51.92	54.00	-2.08	AVG	

## **ATTACHMENT E - BANDWIDTH**

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

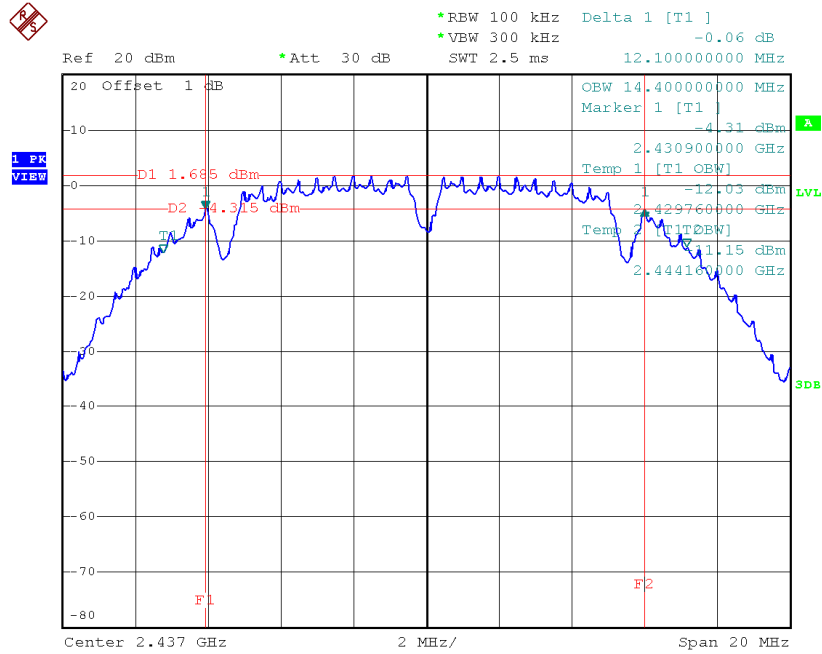
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	11.14	14.44	500	Complies
2437	12.10	14.40	500	Complies
2462	12.06	14.36	500	Complies

**TX CH01**



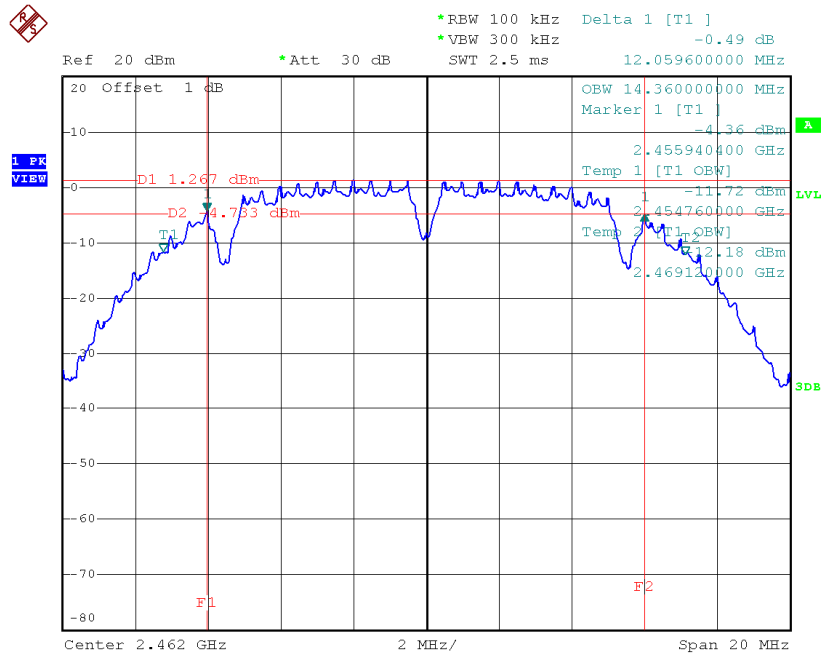
Date: 3.APR.2015 14:51:49

### TX CH06



Date: 3.APR.2015 14:52:55

### TX CH11

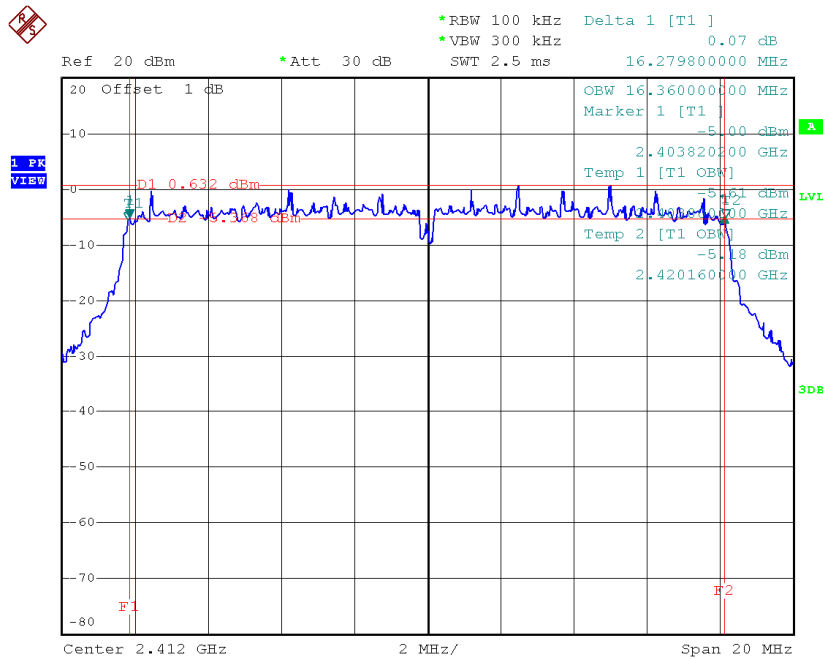


Date: 3.APR.2015 14:53:55

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

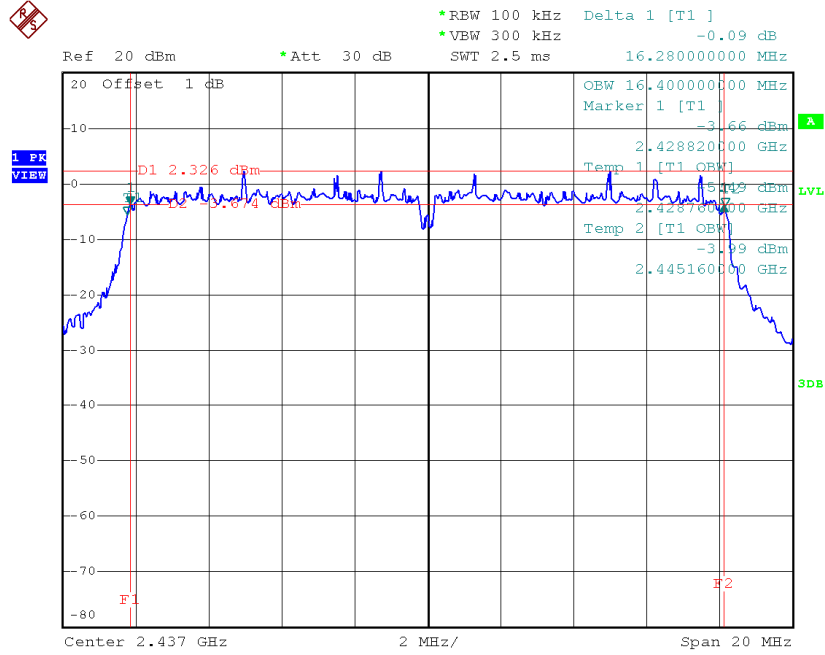
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.28	16.36	500	Complies
2437	16.28	16.40	500	Complies
2462	16.28	16.40	500	Complies

**TX CH01**



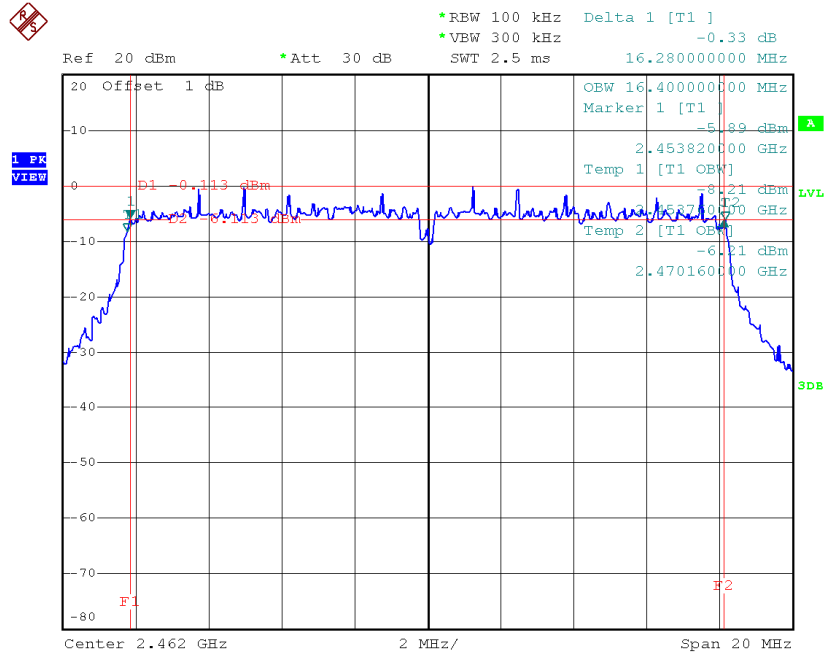
Date: 3.APR.2015 14:55:47

### TX CH06



Date: 3.APR.2015 14:56:56

### TX CH11

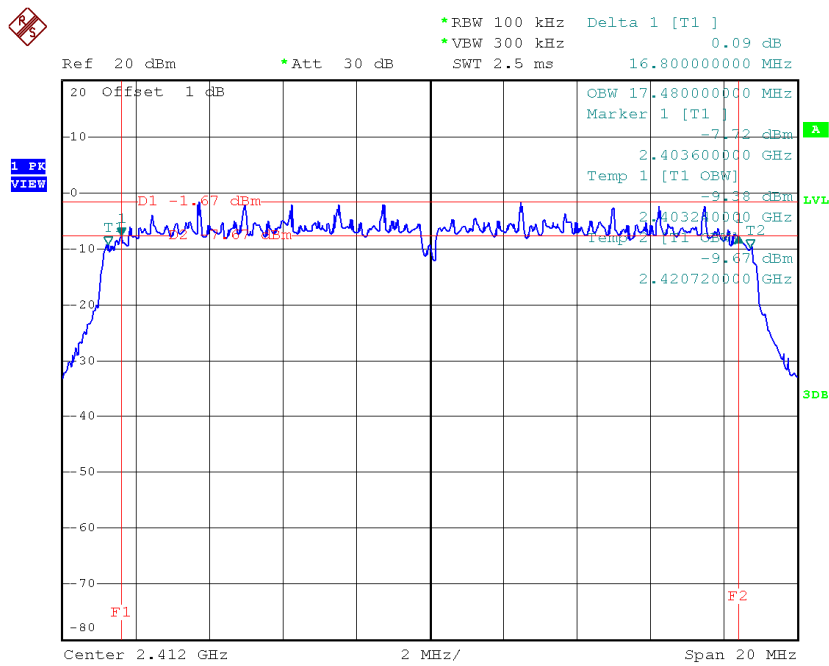


Date: 3.APR.2015 14:57:49

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.80	17.48	500	Complies
2437	16.39	17.48	500	Complies
2462	16.78	17.48	500	Complies

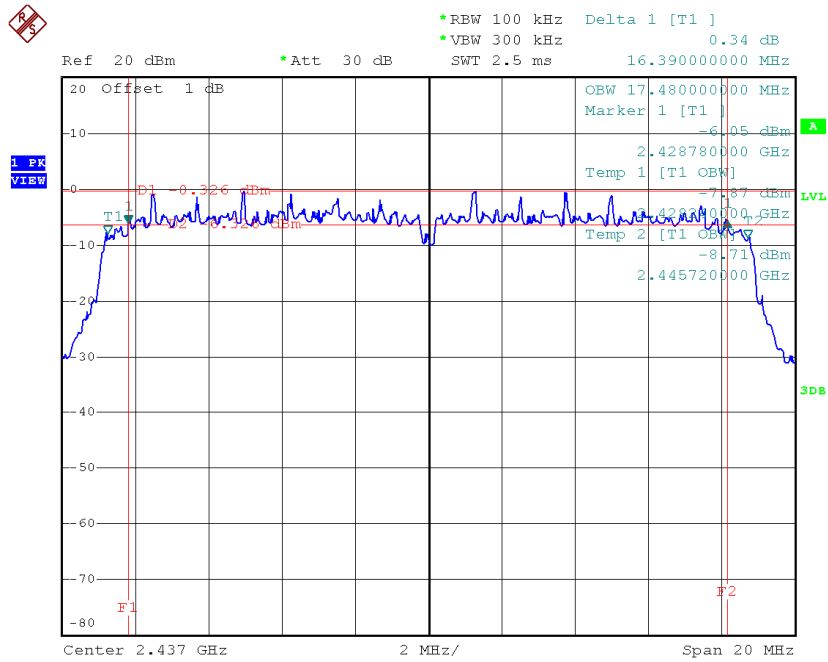
**TX CH01**



Date: 3.APR.2015 15:02:24

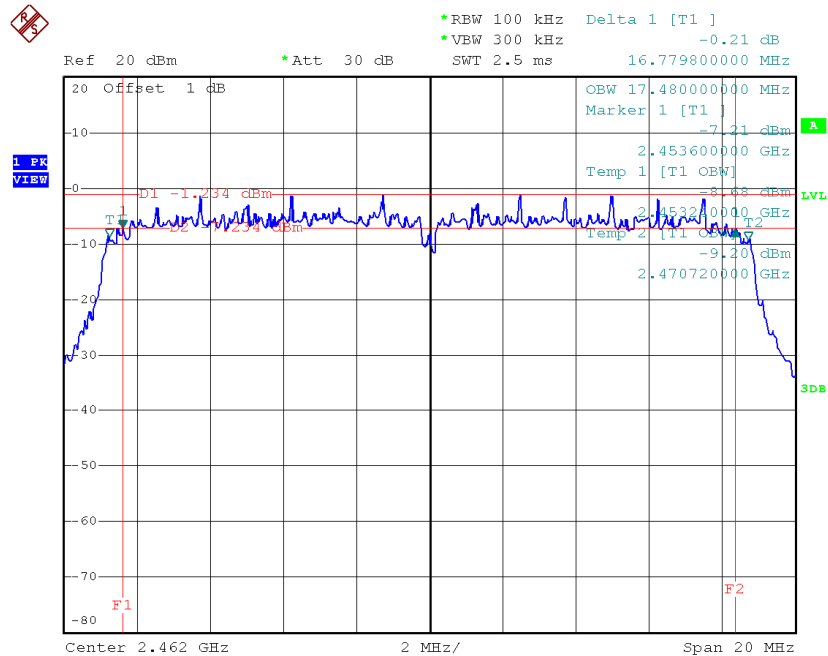


### TX CH06



Date: 3.APR.2015 15:03:45

### TX CH11

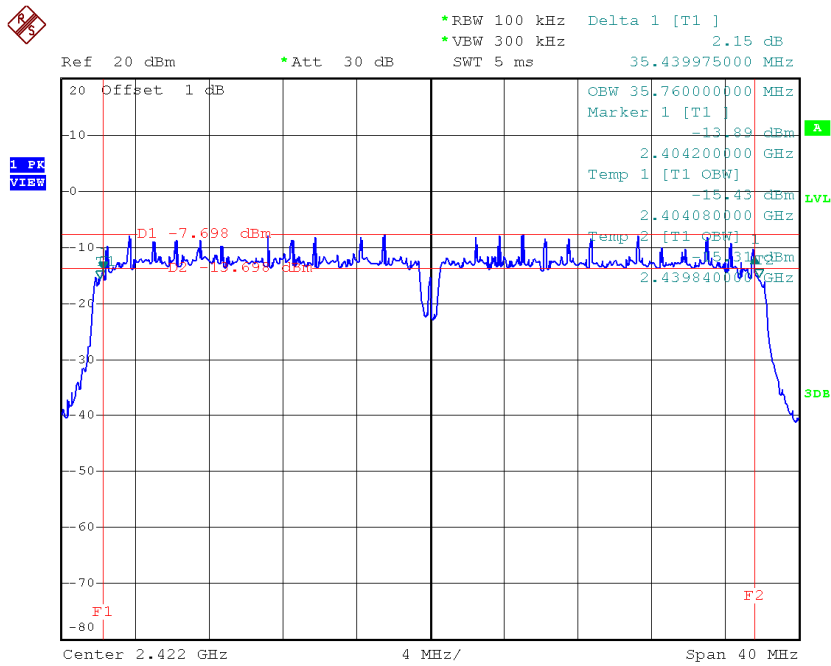


Date: 3.APR.2015 15:04:51

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

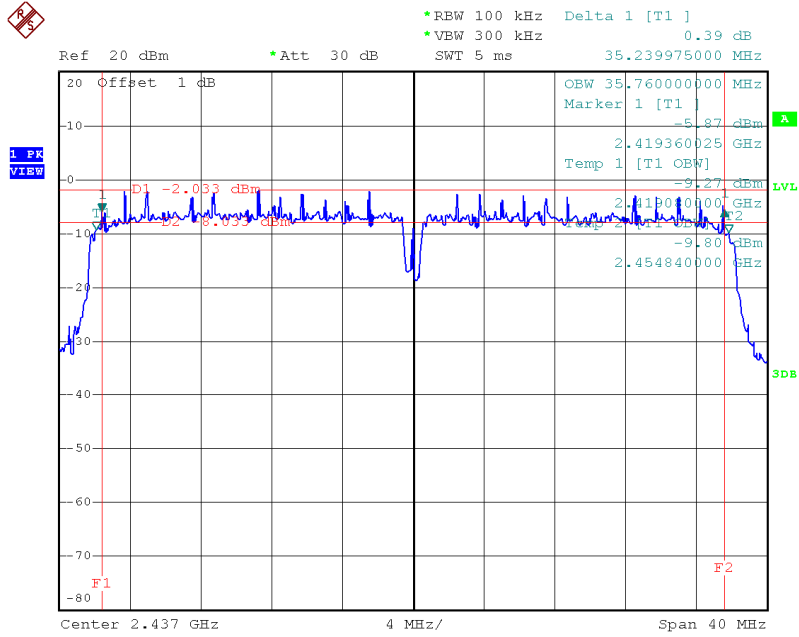
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.44	35.76	500	Complies
2437	35.24	35.76	500	Complies
2452	35.24	35.76	500	Complies

**TX CH03**



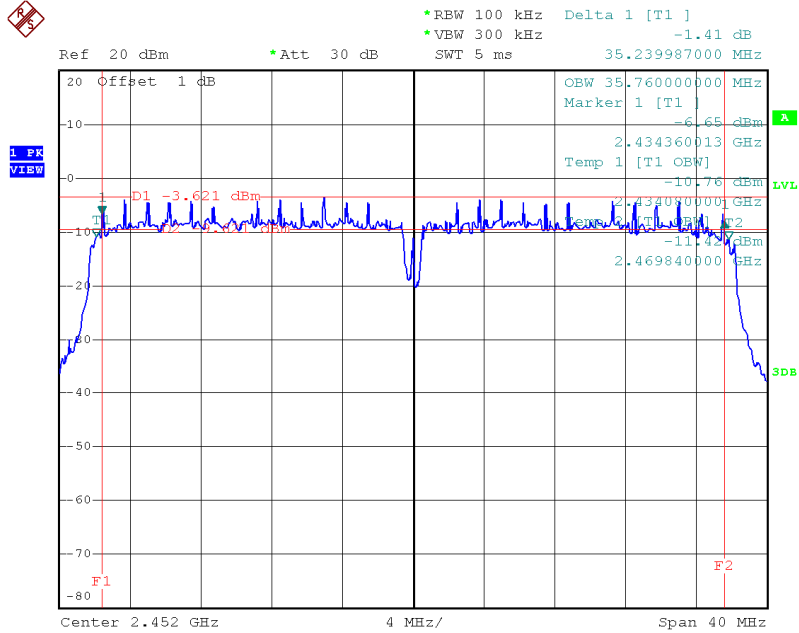
Date: 3.APR.2015 15:10:38

### TX CH06



Date: 3.APR.2015 15:12:08

### TX CH09



Date: 3.APR.2015 15:13:12

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

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.90	0.08	30.00	1.00	Complies
2437	18.71	0.07	30.00	1.00	Complies
2462	18.74	0.07	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.86	0.08	30.00	1.00	Complies
2437	23.65	0.23	30.00	1.00	Complies
2462	17.75	0.06	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.15	0.05	30.00	1.00	Complies
2437	20.83	0.12	30.00	1.00	Complies
2462	20.88	0.12	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.30	0.05	30.00	1.00	Complies
2437	21.65	0.15	30.00	1.00	Complies
2462	21.96	0.16	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.24	0.11	30.00	1.00	Complies
2437	24.27	0.27	30.00	1.00	Complies
2462	24.46	0.28	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.29	0.03	30.00	1.00	Complies
2437	22.12	0.16	30.00	1.00	Complies
2452	18.76	0.08	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.82	0.04	30.00	1.00	Complies
2437	22.86	0.19	30.00	1.00	Complies
2452	17.93	0.06	30.00	1.00	Complies

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

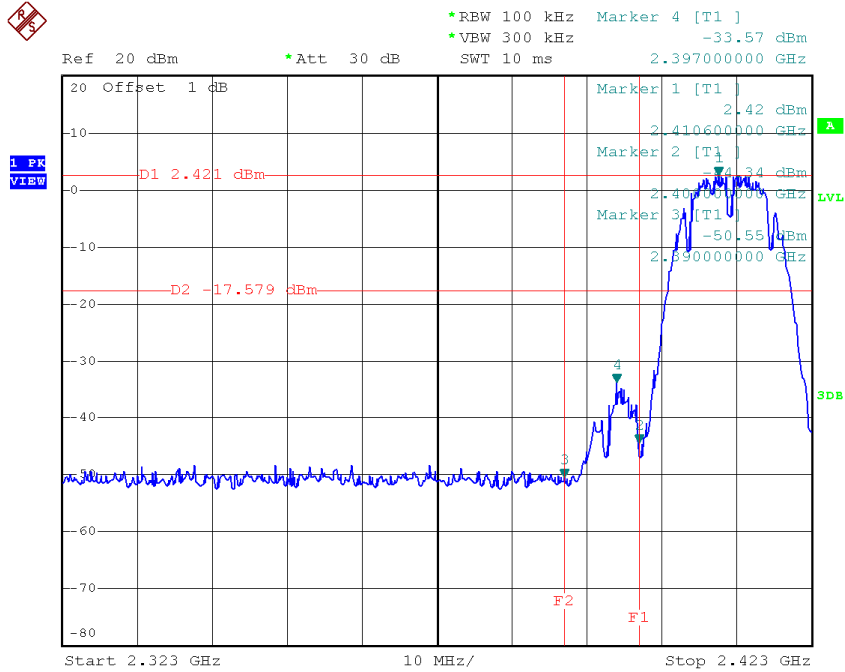
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.57	0.07	30.00	1.00	Complies
2437	25.52	0.36	30.00	1.00	Complies
2452	21.38	0.14	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**



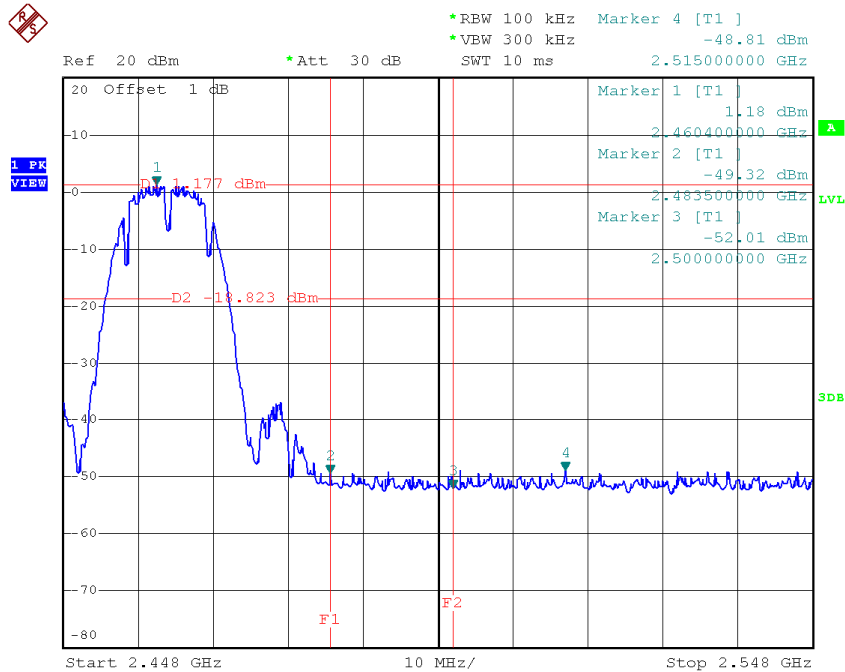
<b>Test Mode :</b>	<b>TX B Mode</b>
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### TX B mode CH01



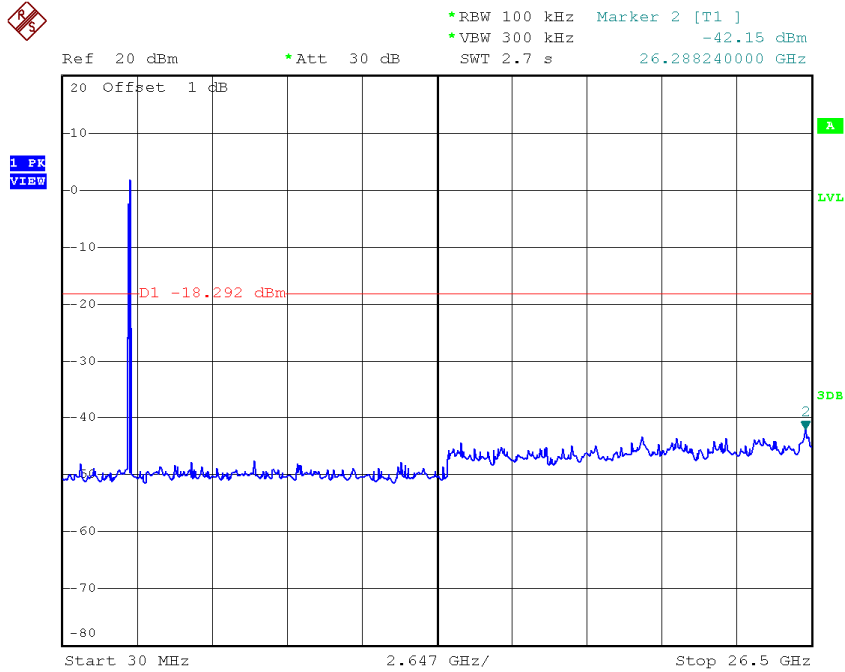
Date: 3.APR.2015 14:52:09

### TX B mode CH11



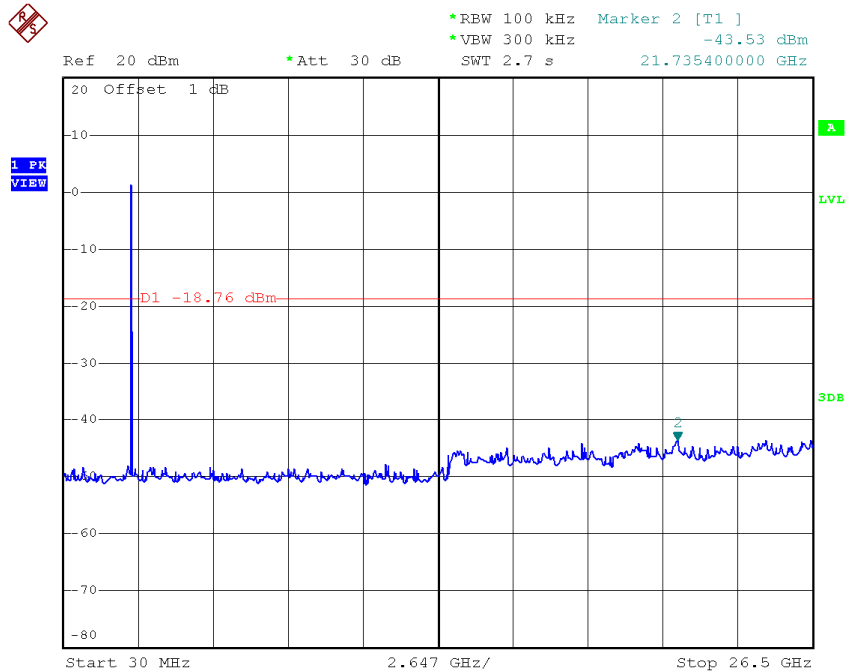
Date: 3.APR.2015 14:54:16

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



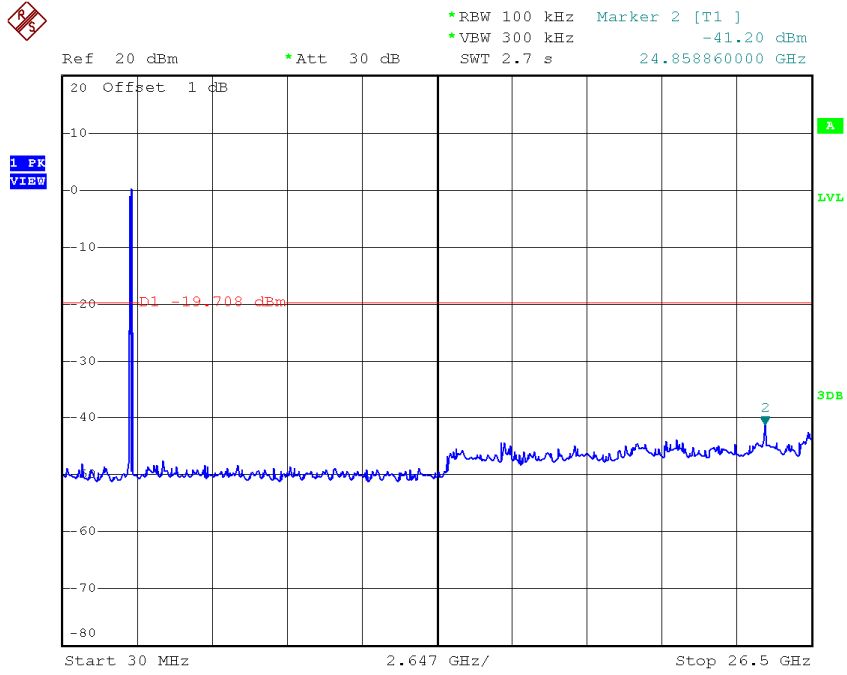
Date: 3.APR.2015 14:52:02

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



Date: 3.APR.2015 14:53:08

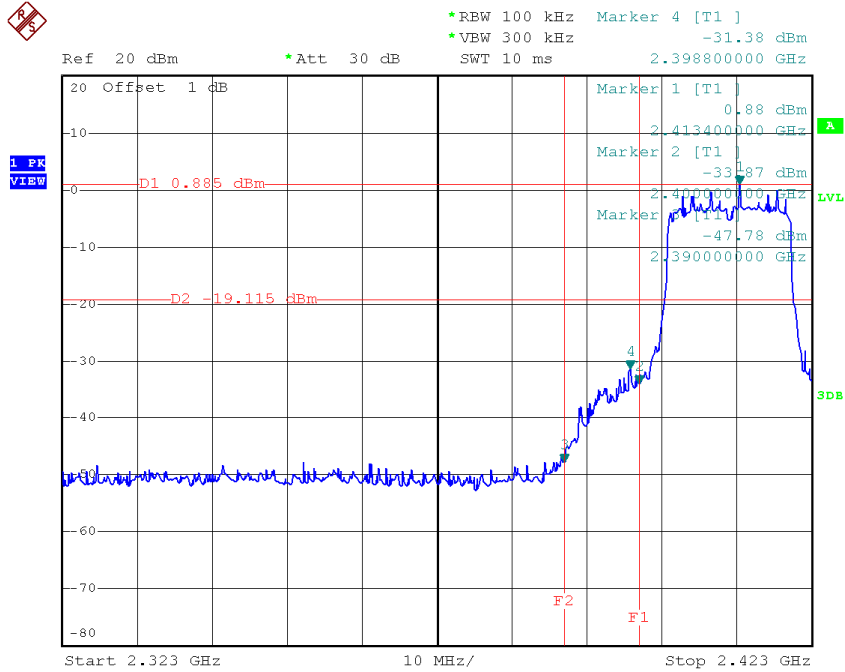
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 3.APR.2015 14:54:08

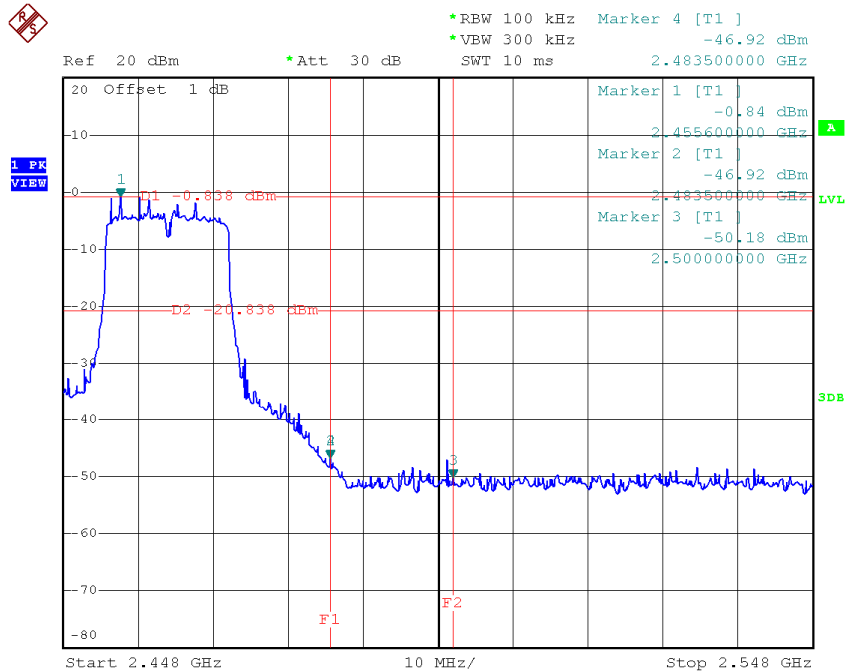
<b>Test Mode :</b>	<b>TX G Mode</b>
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### TX G mode CH01



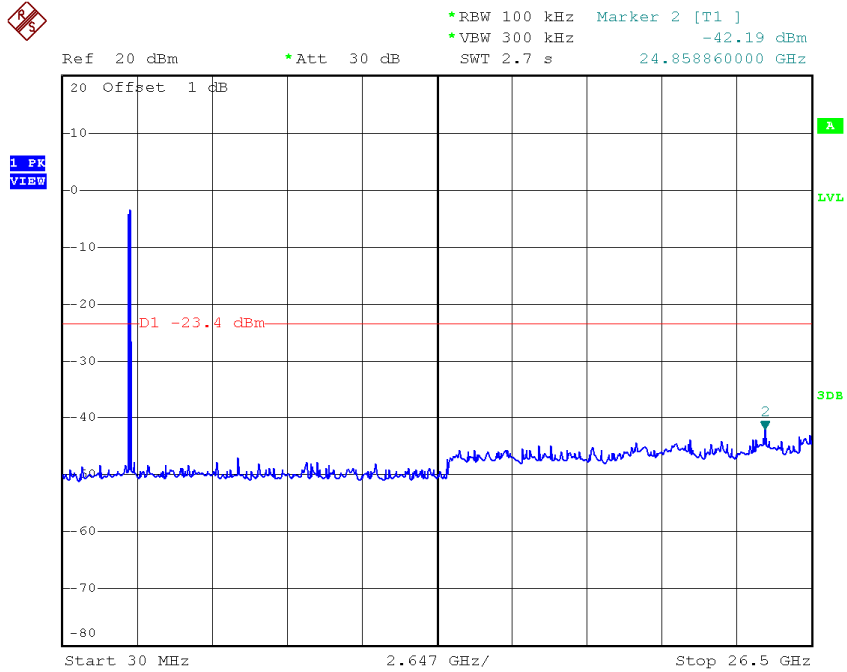
Date: 3.APR.2015 14:56:08

### TX G mode CH11



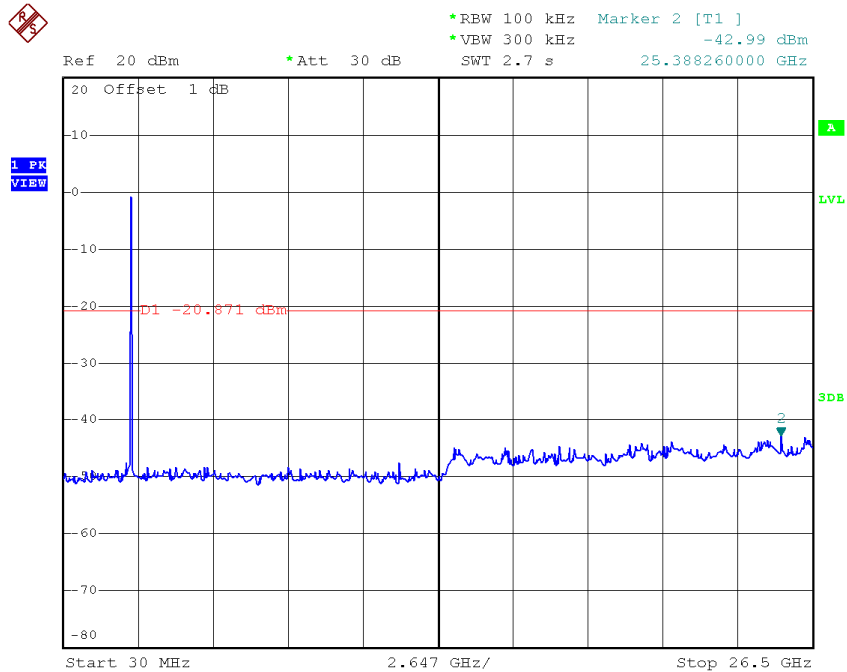
Date: 3.APR.2015 14:58:10

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



Date: 3.APR.2015 14:56:01

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



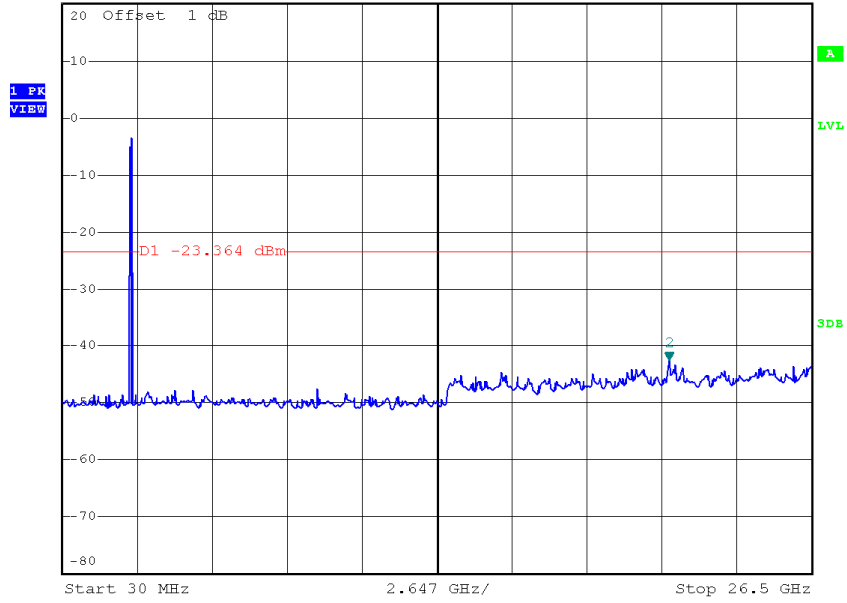
Date: 3.APR.2015 14:57:10

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



\*REW 100 kHz Marker 2 [T1 ]  
\*VBW 300 kHz -42.70 dBm  
SWT 2.7 s 21.470700000 GHz

Ref 20 dBm \*Att 30 dB

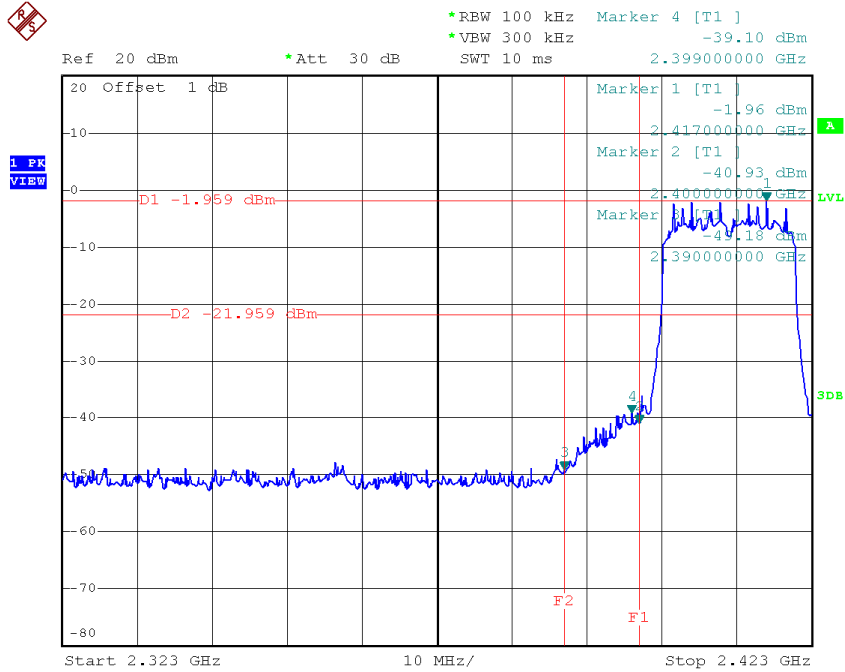


Date: 3.APR.2015 14:58:03



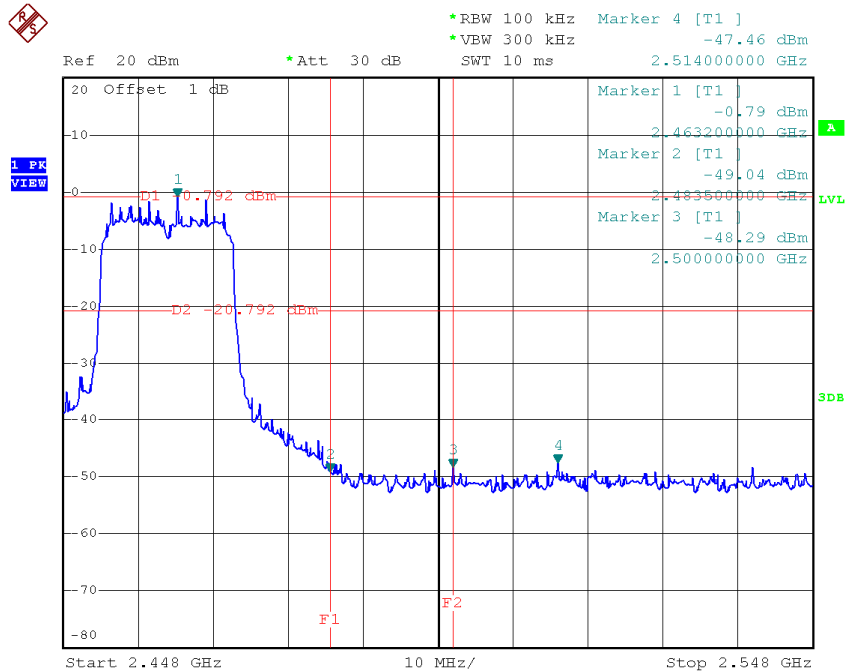
Test Mode :	TX N-20M Mode_ANT 1
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**TX HT20 mode CH01**



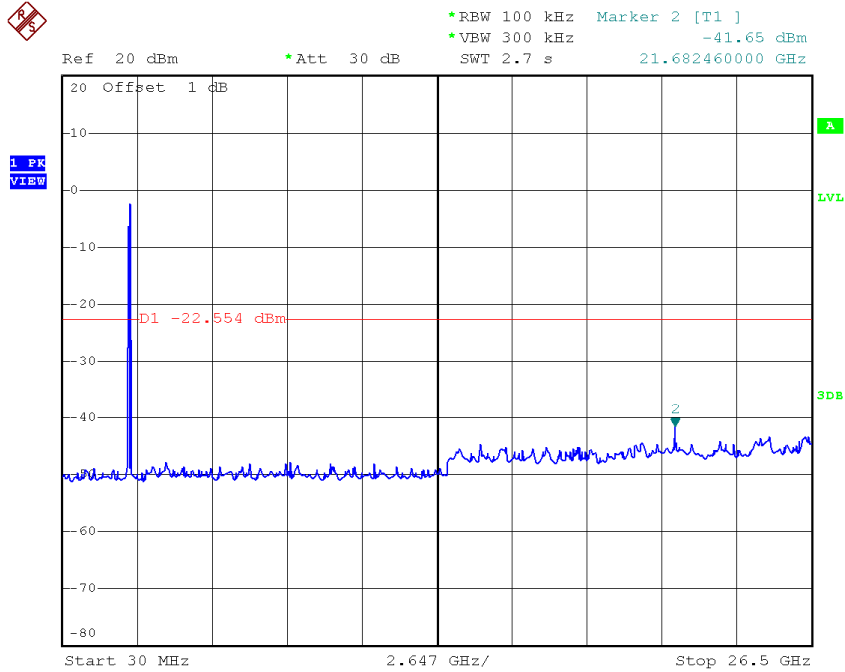
Date: 3.APR.2015 15:02:45

**TX HT20 mode CH11**



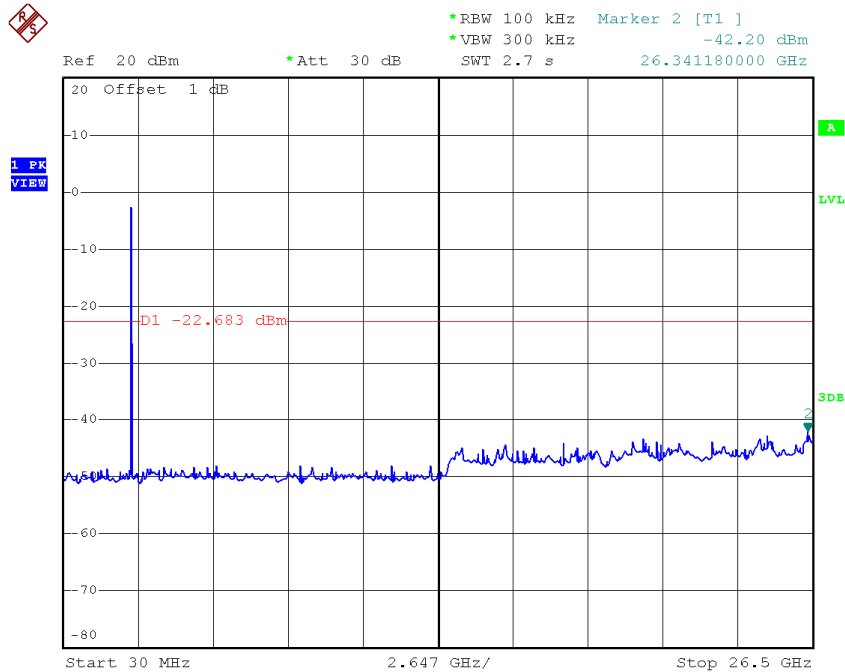
Date: 3.APR.2015 15:05:12

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



Date: 3.APR.2015 15:02:38

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

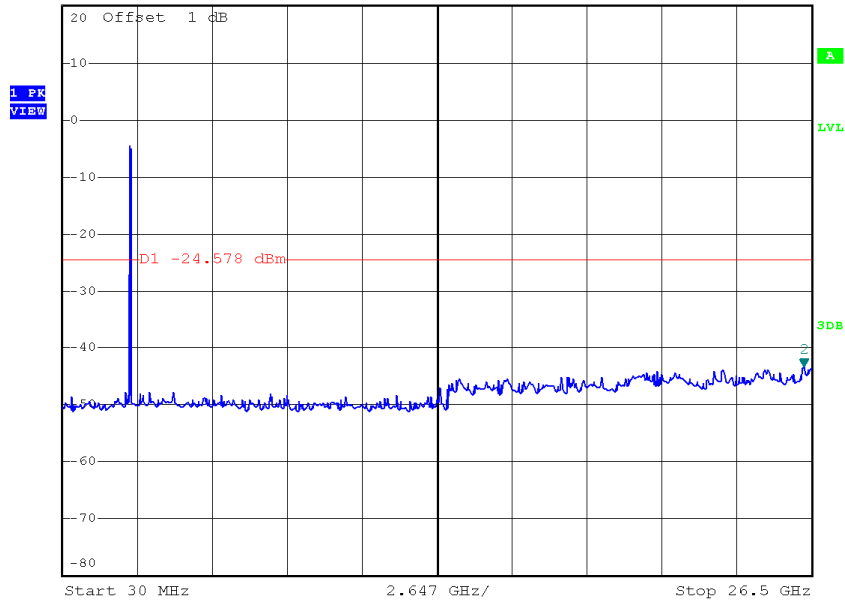


Date: 3.APR.2015 15:03:58

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



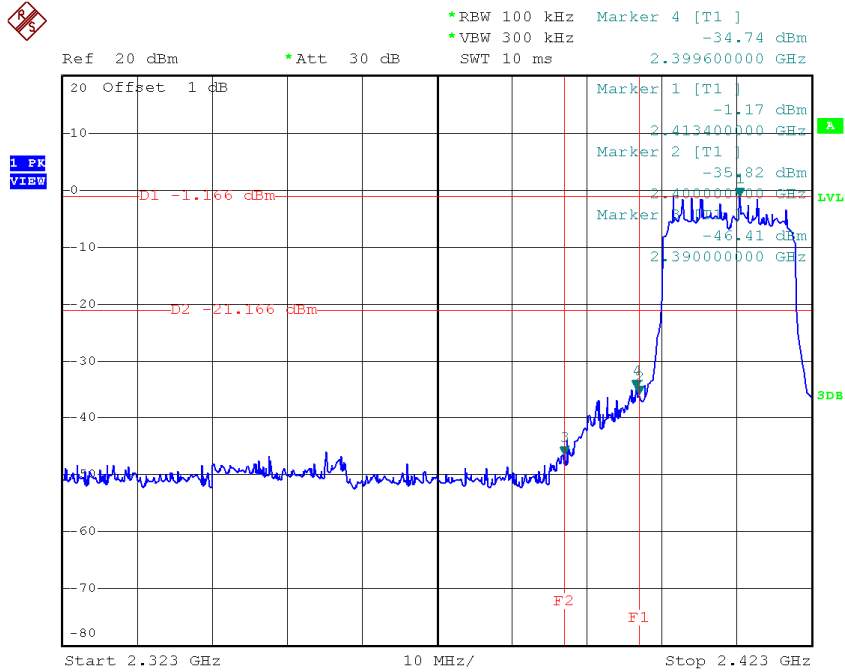
Ref 20 dBm      \*Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -43.49 dBm  
SWT 2.7 s      26.235300000 GHz



Date: 3.APR.2015 15:05:05

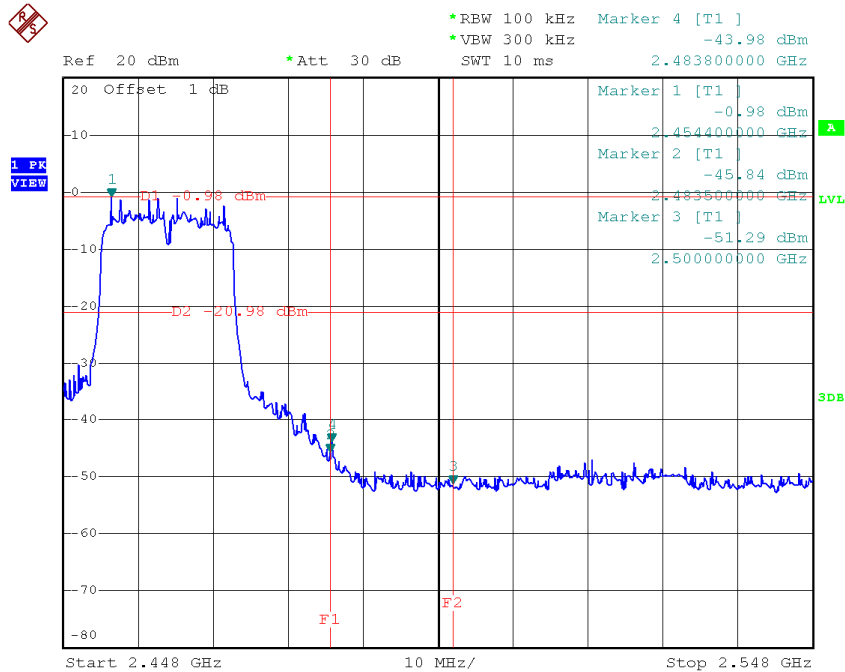
Test Mode :	TX N-20M Mode_ANT 2
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### TX HT20 mode CH01



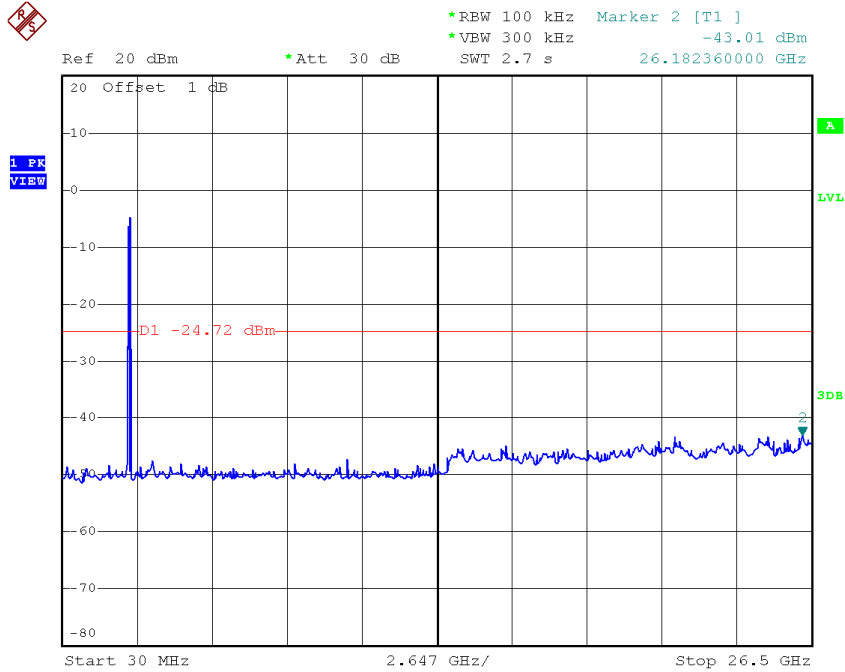
Date: 3.APR.2015 15:06:37

### TX HT20 mode CH11



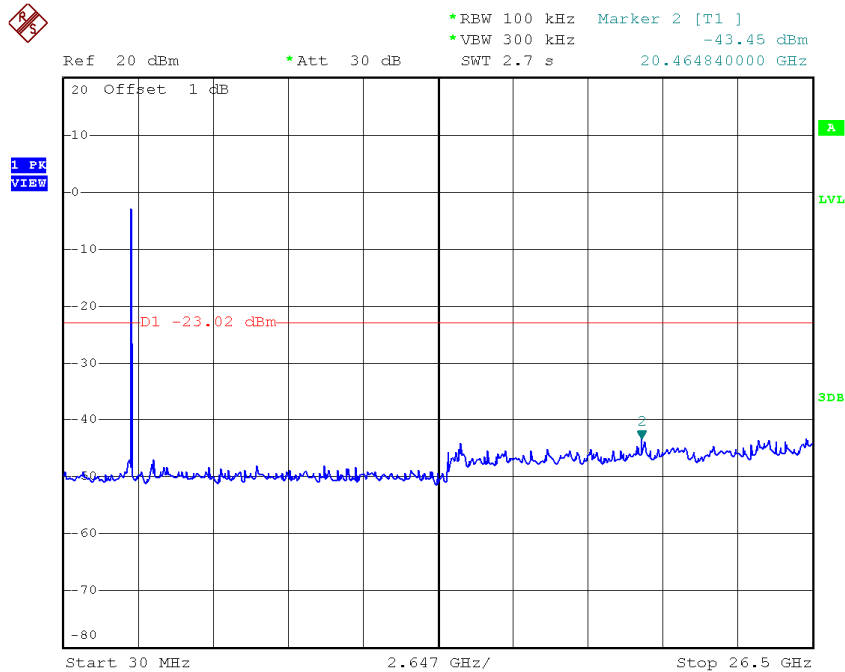
Date: 3.APR.2015 15:08:37

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



Date: 3.APR.2015 15:06:30

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

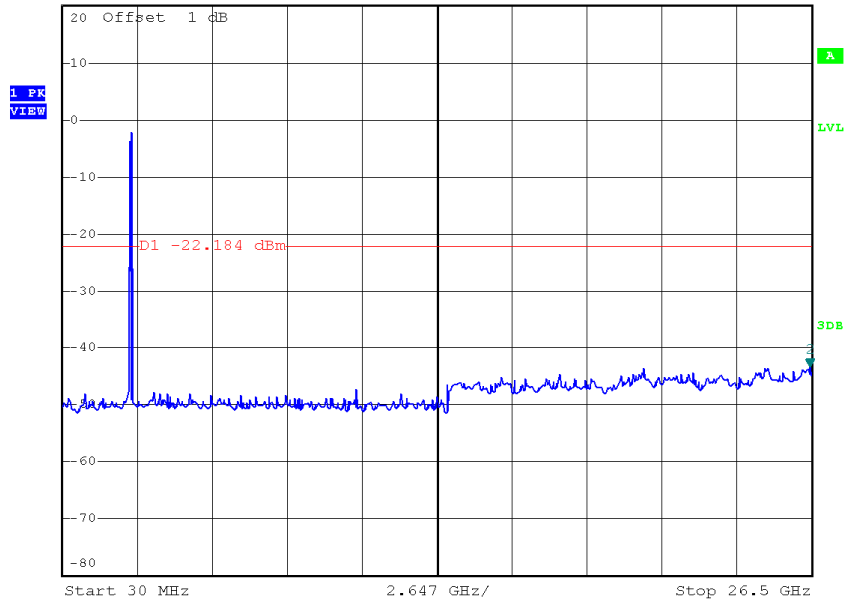


Date: 3.APR.2015 15:07:33

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -43.32 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.447060000 GHz

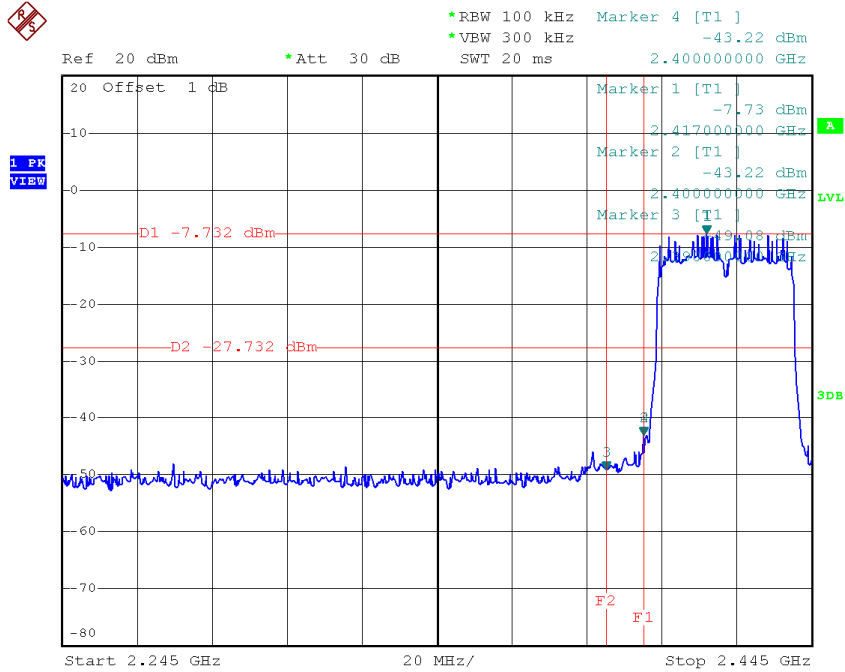


Date: 3.APR.2015 15:08:30



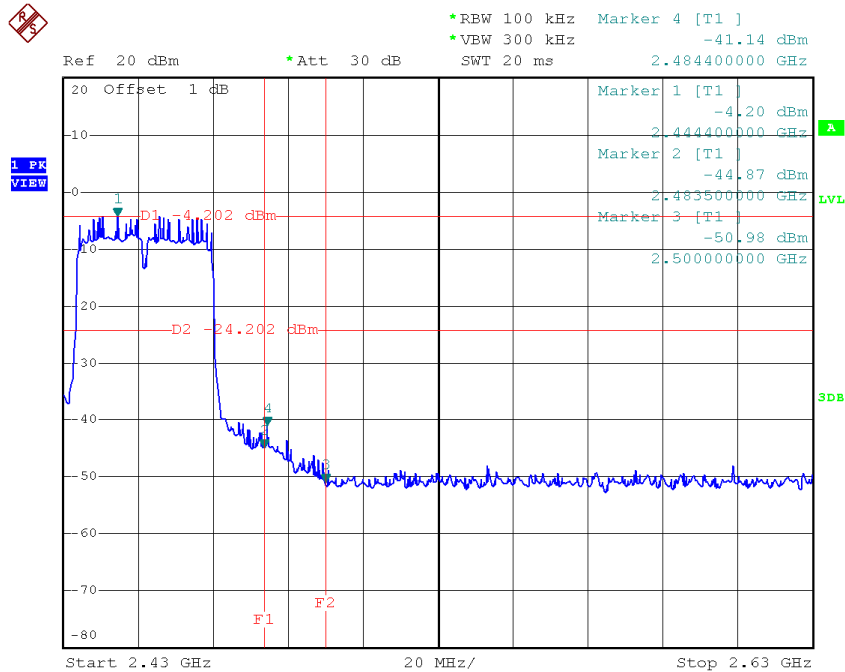
Test Mode :	TX N-40M Mode_ANT 1
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### TX HT40 mode CH03



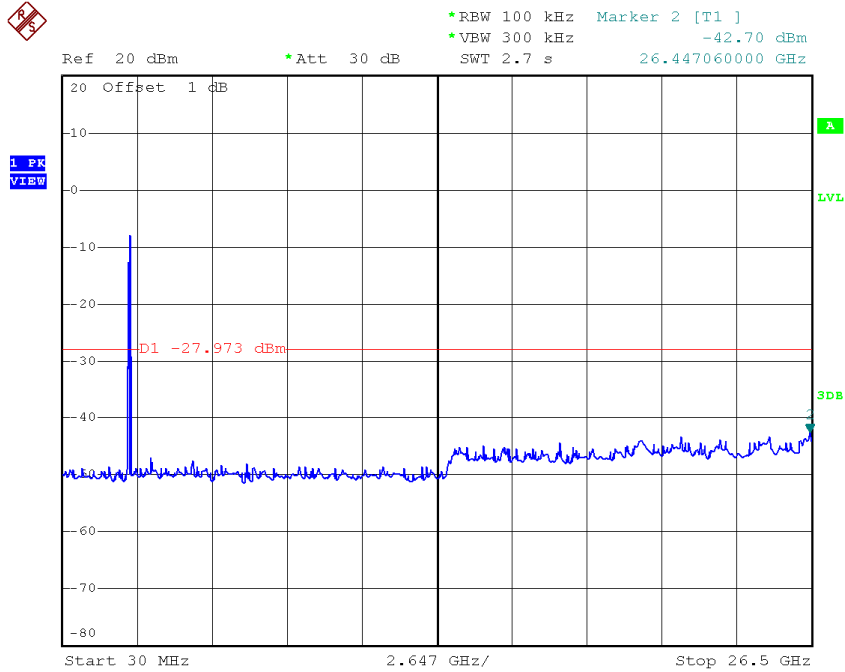
Date: 3.APR.2015 15:10:59

### TX HT40 mode CH09



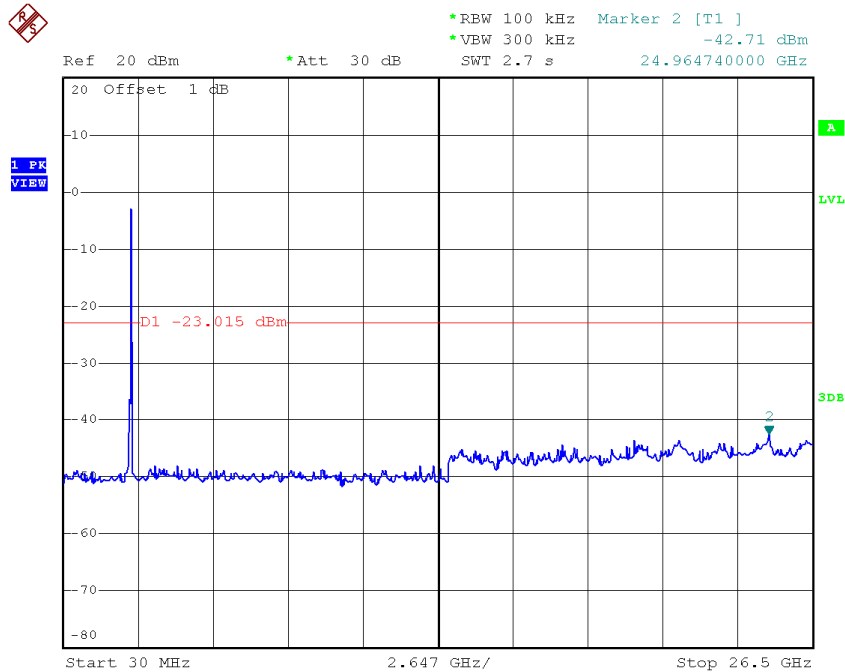
Date: 3.APR.2015 15:13:33

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



Date: 3.APR.2015 15:10:52

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

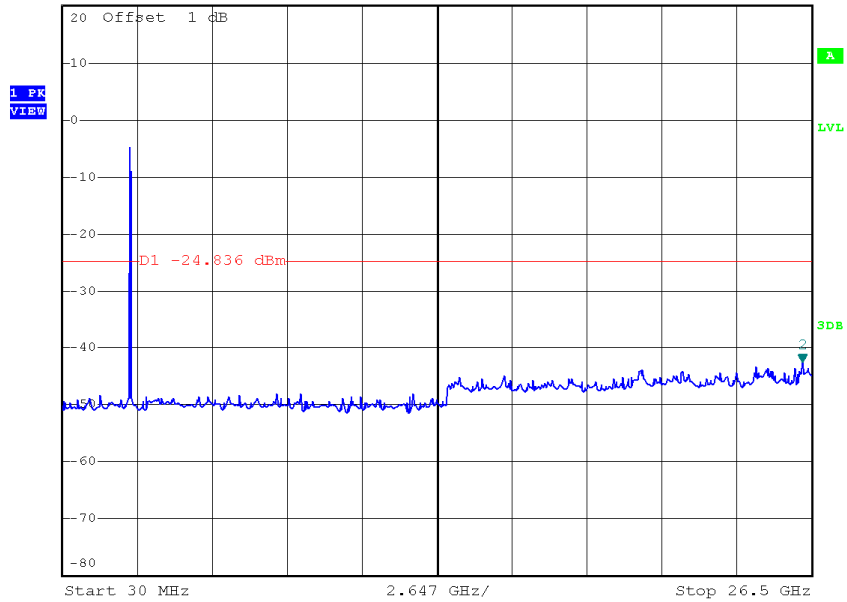


Date: 3.APR.2015 15:12:22

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



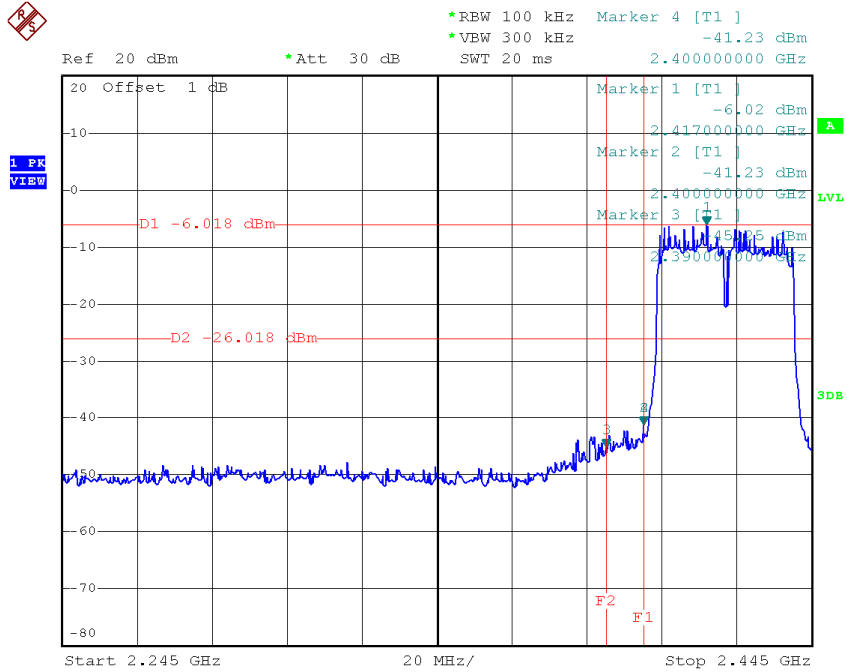
\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -42.57 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.182360000 GHz



Date: 3.APR.2015 15:13:26

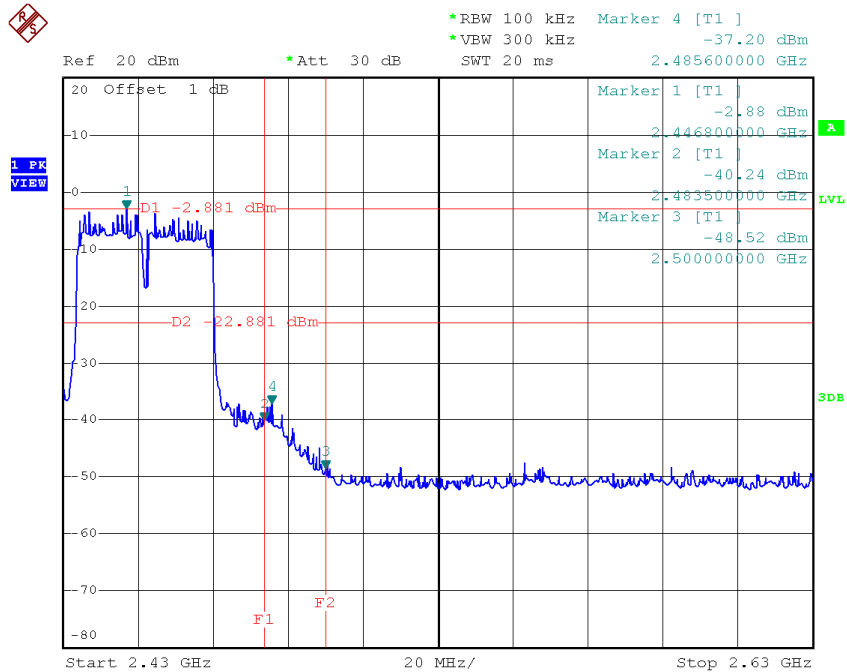
Test Mode :	TX N-40M Mode_ANT 2
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### TX HT40 mode CH03



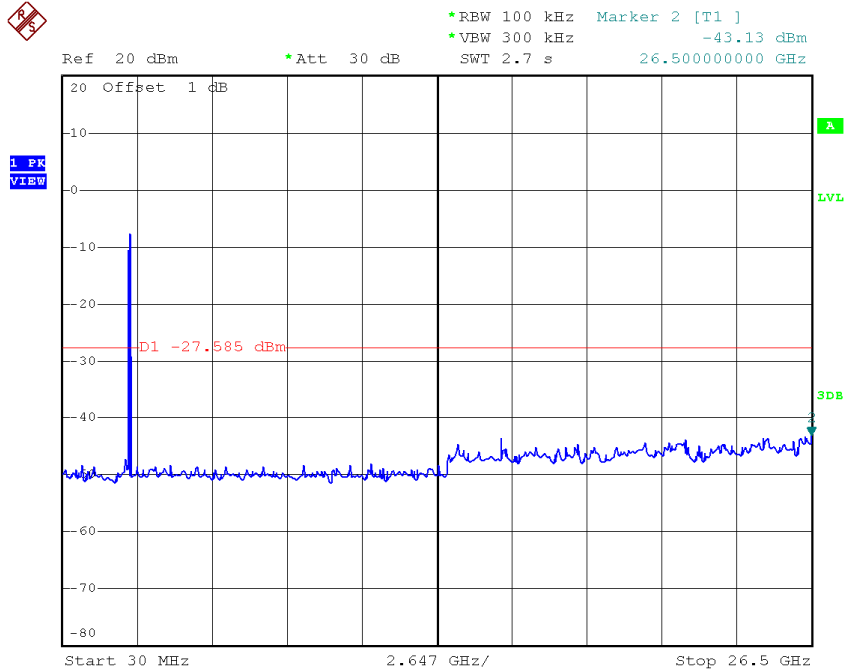
Date: 3.APR.2015 15:15:08

### TX HT40 mode CH09



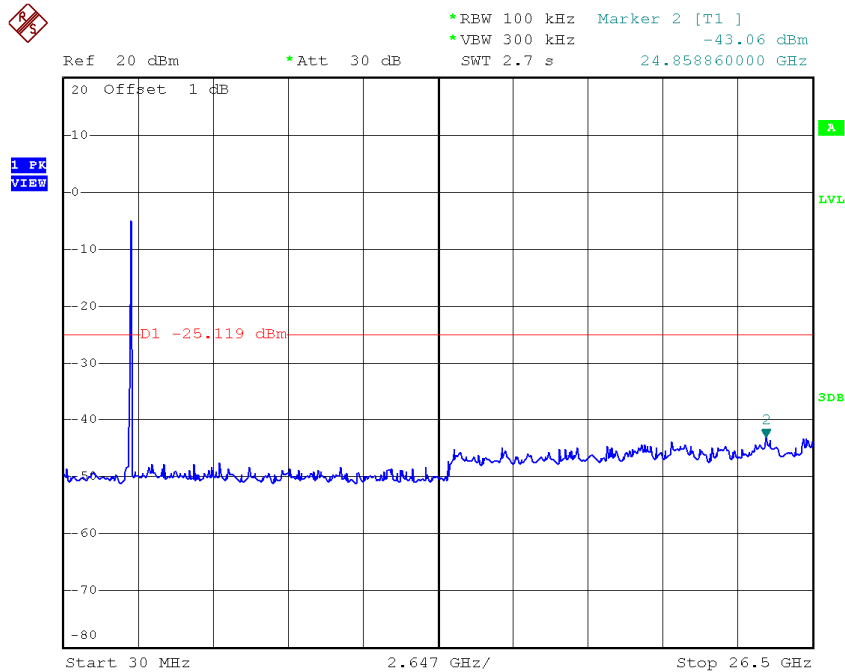
Date: 3.APR.2015 15:17:18

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



Date: 3.APR.2015 15:15:01

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

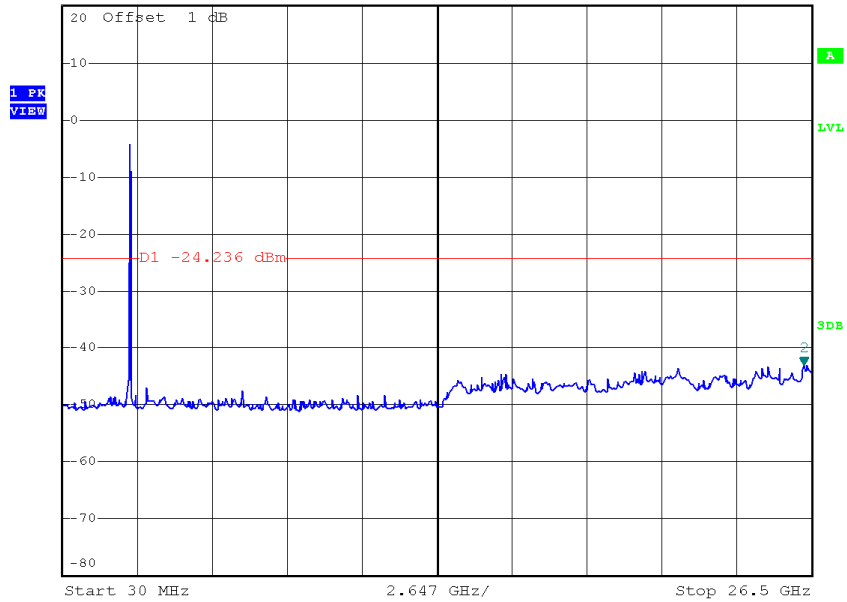


Date: 3.APR.2015 15:16:10

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -43.09 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.235300000 GHz



Date: 3.APR.2015 15:17:11

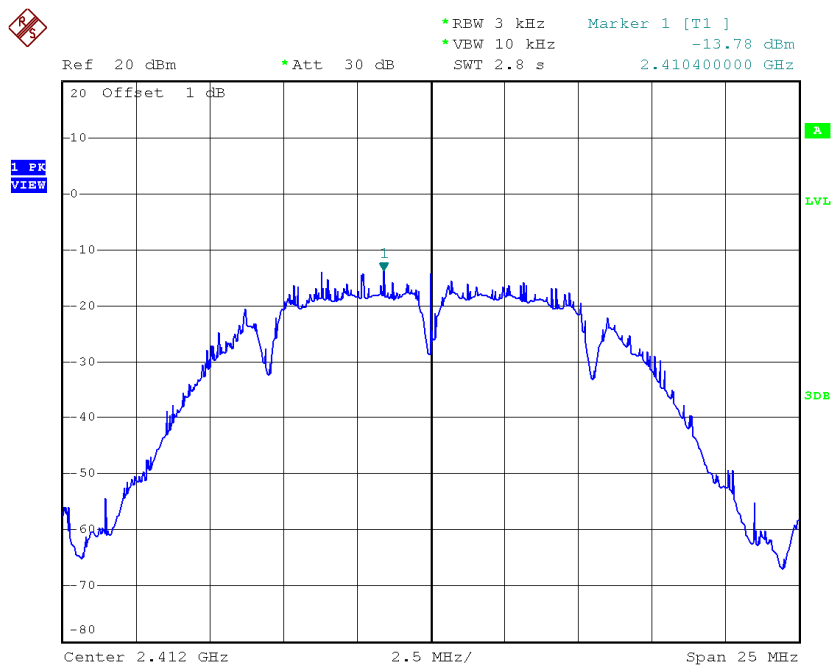


## ATTACHMENT H - POWER SPECTRAL DENSITY

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

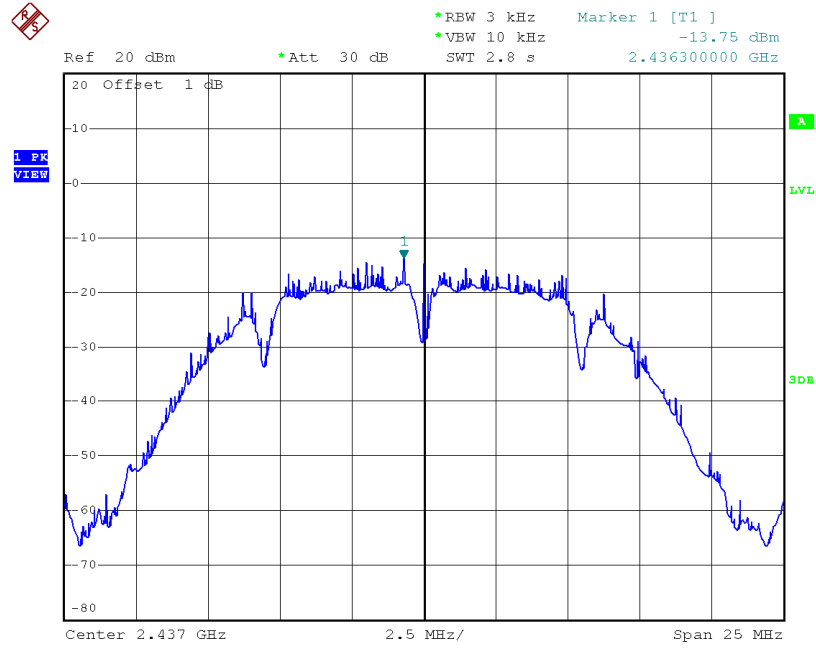
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.78	0.04	8.00	Complies
2437	-13.75	0.04	8.00	Complies
2462	-15.53	0.03	8.00	Complies

**TX CH01**



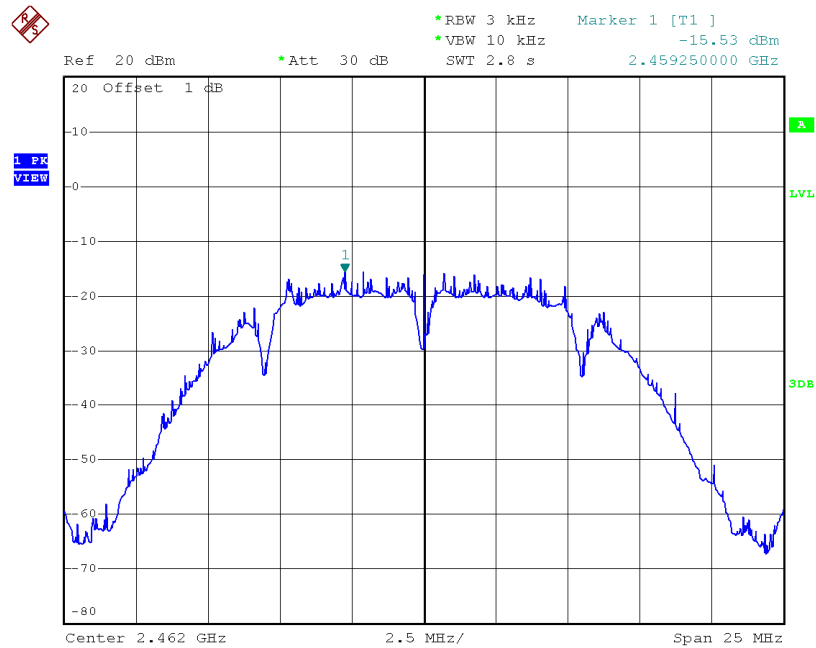
Date: 3.APR.2015 14:52:18

### TX CH06



Date: 3.APR.2015 14:53:17

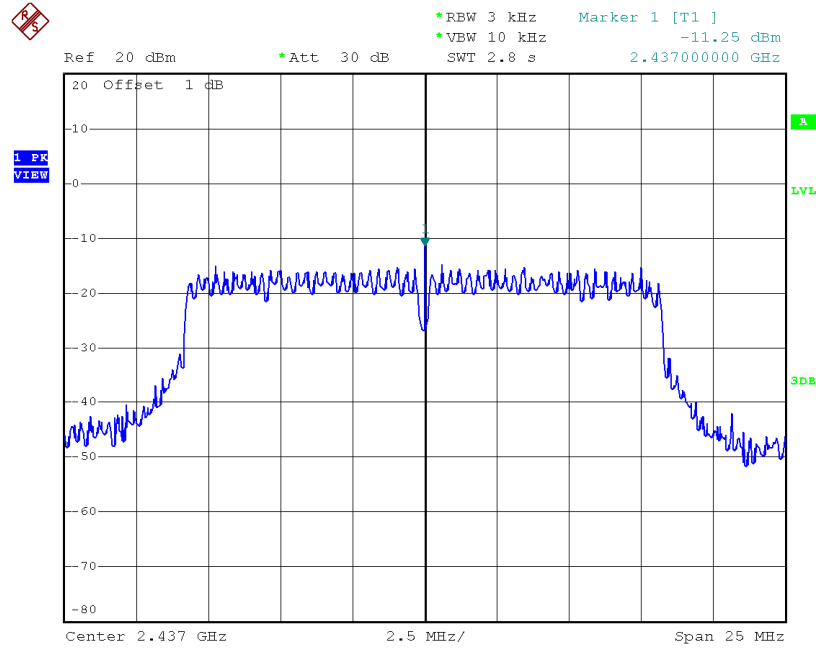
### TX CH11



Date: 3.APR.2015 14:54:25

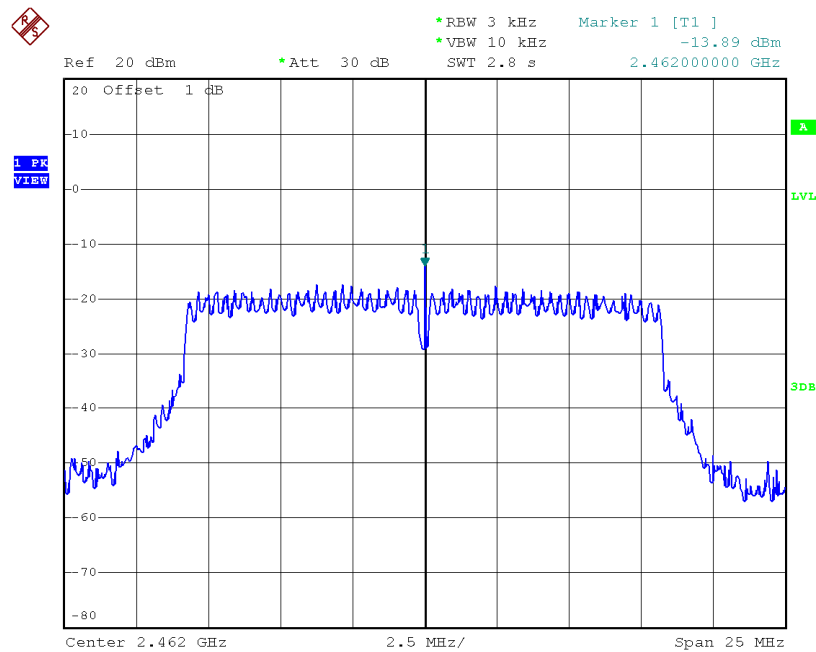


### TX CH06



Date: 3.APR.2015 14:57:18

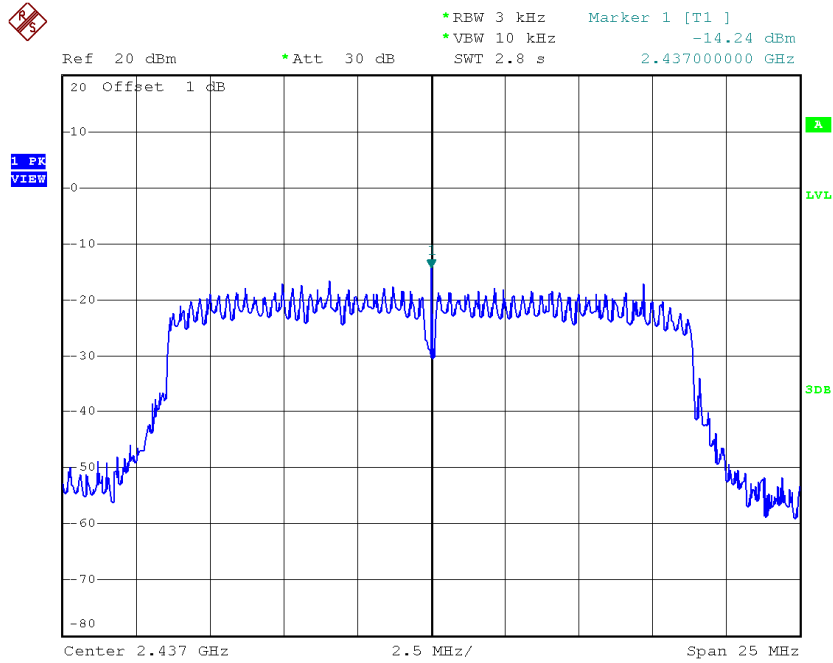
### TX CH11



Date: 3.APR.2015 14:58:19

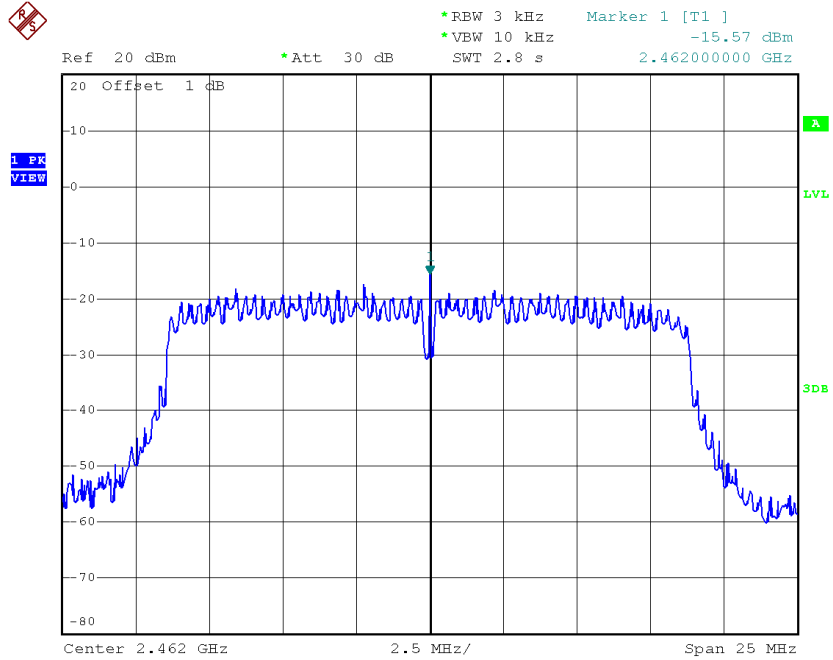


### TX CH06



Date: 3.APR.2015 15:04:07

### TX CH11

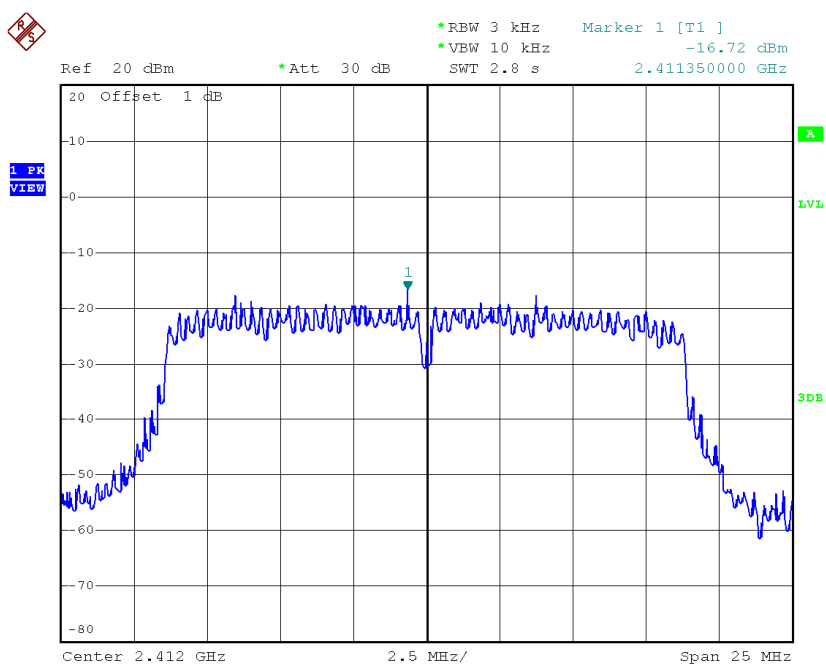


Date: 3.APR.2015 15:05:21

**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	-16.72	0.02	8.00	Complies
2437	-16.97	0.02	8.00	Complies
2462	-16.31	0.02	8.00	Complies

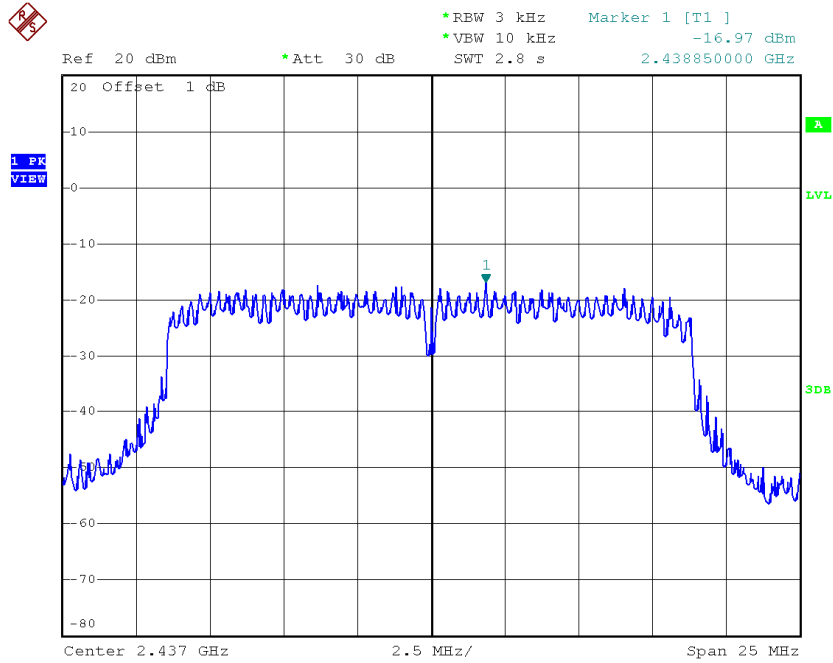
**TX CH01**



Date: 3.APR.2015 15:06:46

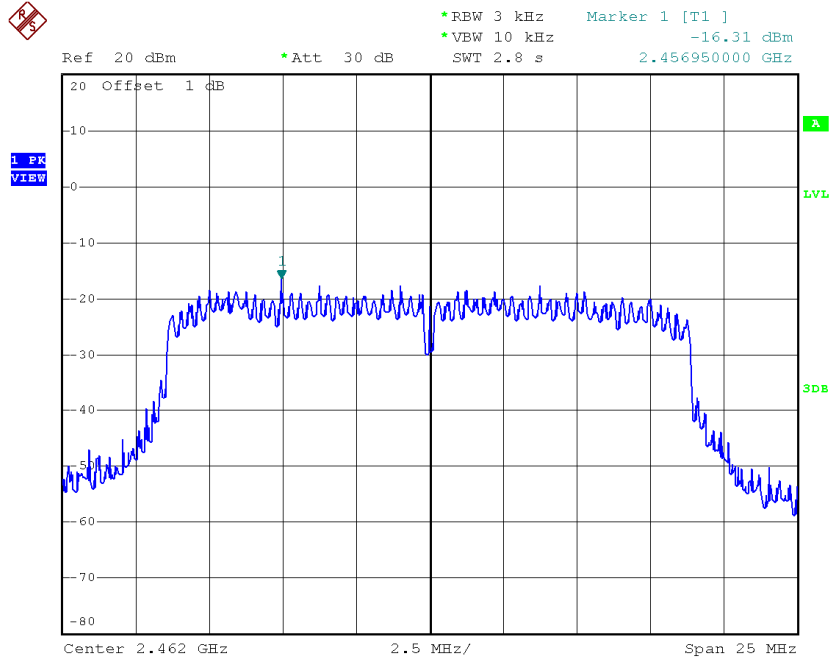


### TX CH06



Date: 3.APR.2015 15:07:42

### TX CH11



Date: 3.APR.2015 15:08:46

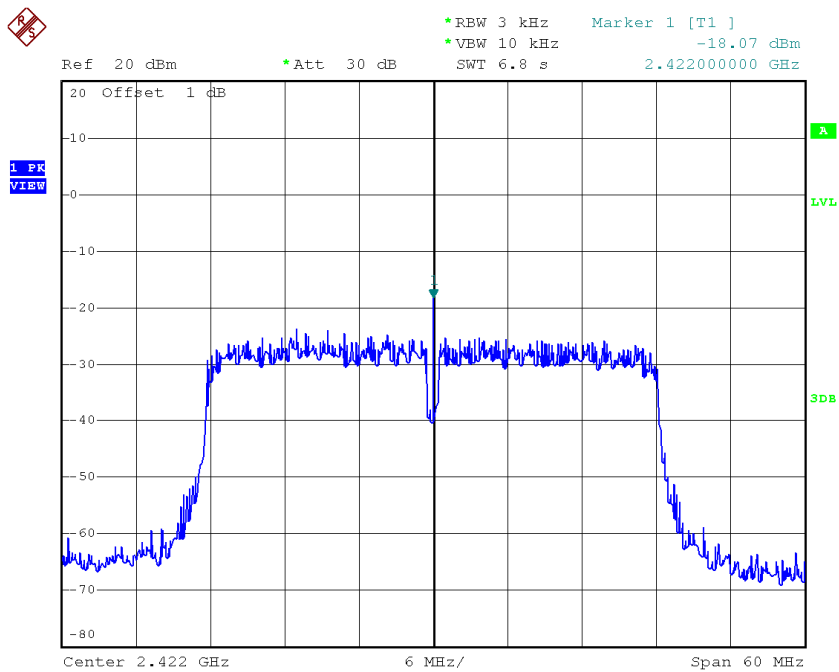
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.25	0.05	8.00	Complies
2437	-12.38	0.06	8.00	Complies
2462	-12.92	0.05	8.00	Complies

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

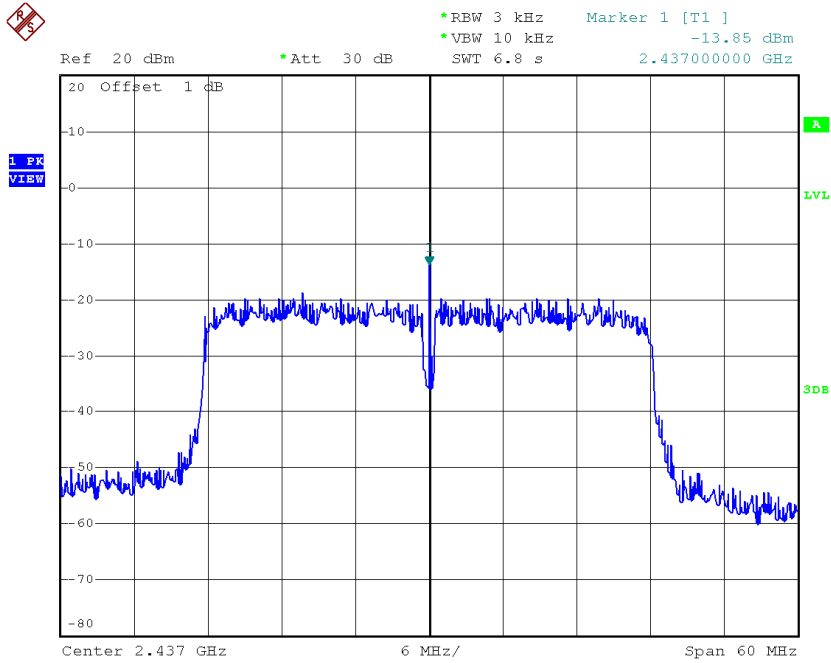
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.07	0.02	8.00	Complies
2437	-13.85	0.04	8.00	Complies
2452	-14.58	0.03	8.00	Complies

**TX CH03**



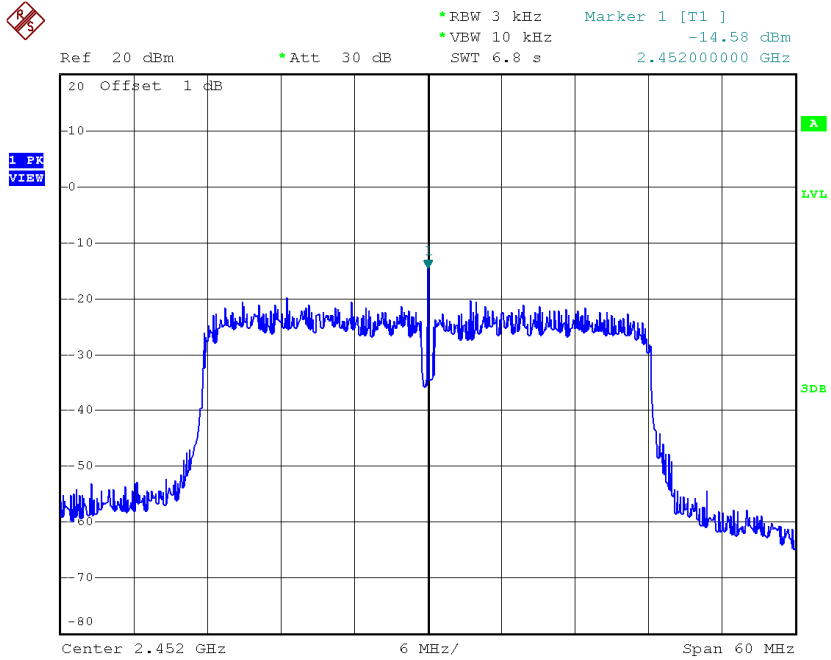
Date: 3.APR.2015 15:11:11

**TX CH06**



Date: 3.APR.2015 15:12:34

**TX CH09**

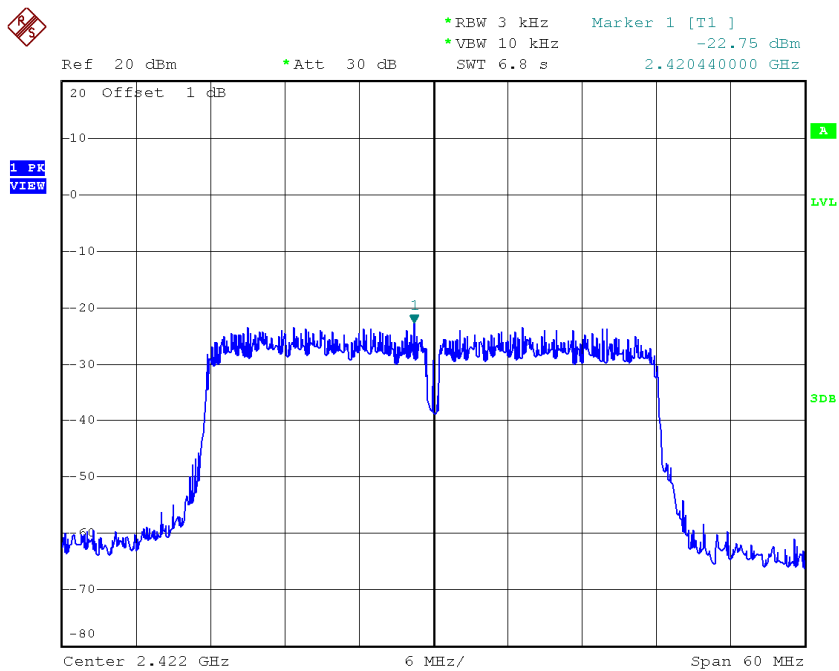


Date: 3.APR.2015 15:13:45

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

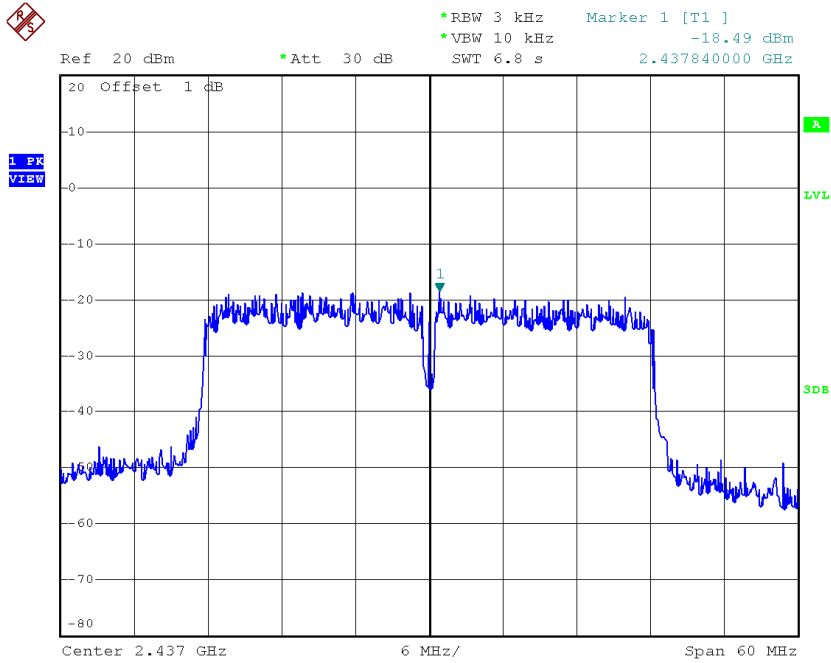
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-22.75	0.01	8.00	Complies
2437	-18.49	0.01	8.00	Complies
2452	-19.66	0.01	8.00	Complies

**TX CH03**



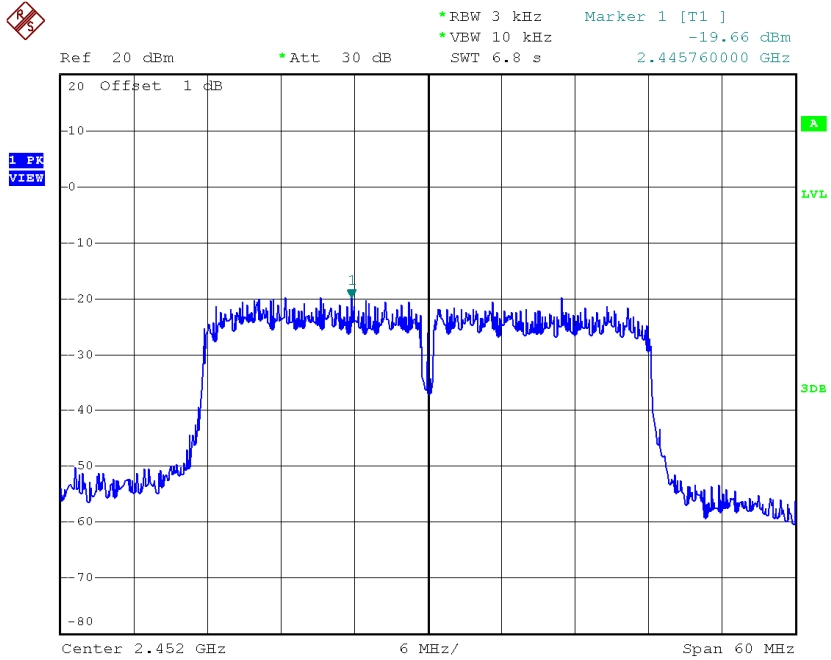
Date: 3.APR.2015 15:15:20

### TX CH06



Date: 3.APR.2015 15:16:22

### TX CH09



Date: 3.APR.2015 15:17:30

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.80	0.02	8.00	Complies
2437	-12.57	0.06	8.00	Complies
2452	-13.41	0.05	8.00	Complies