

# FCC Radio Test Report

## FCC ID: V7TA301V2

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

**Project No.** : 1509C314  
**Equipment** : Wireless N300 Universal Range Extender  
**Model Name** : A301  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

**Date of Receipt** : Sep. 28, 2015  
**Date of Test** : Sep. 28, 2015 ~ Oct. 19, 2015  
**Issued Date** : Oct. 20, 2015  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1509C314	Original Issue.	Oct. 20, 2015

## 1. CERTIFICATION

Equipment : Wireless N300 Universal Range Extender  
Brand Name : Tenda  
Model Name : A301  
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,  
Shenzhen, China. 518052  
Date of Test : Sep. 28, 2015 ~ Oct. 12, 2015  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C: 2014 (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-1-1509C314) 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
	15.207	Conducted Emission	PASS	
	15.247(d)	Antenna conducted Spurious Emission	PASS	
	15.247(a)(2)	6dB Bandwidth	PASS	
	15.247(b)(3)	Peak Output Power	PASS	
	15.247(e)	Power Spectral Density	PASS	
	15.203	Antenna Requirement	PASS	
	15.209/15.205	Transmitter Radiated Emissions	PASS	

**NOTE:**

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

## 2.1 TEST FACILITY

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

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

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

### A. Conducted Measurement:

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

### B. Radiated Measurement:

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

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



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless N300 Universal Range Extender	
Brand Name	Tenda	
Model Name	A301	
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: 22.79dBm 802.11g: 24.43dBm 802.11n(20MHz): 26.26dBm 802.11n(40MHz): 26.15dBm
Power Source	AC Mains	
Power Rating	AC 100-240V 50/60Hz 0.1A	

**Note:**

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

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tenda	N/A	Dipole	N/A	2.25
2	Tenda	N/A	Dipole	N/A	2.25

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R)
- (2) ANT 1 is the worst case for 1TX.

4.

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

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics 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	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

Note:

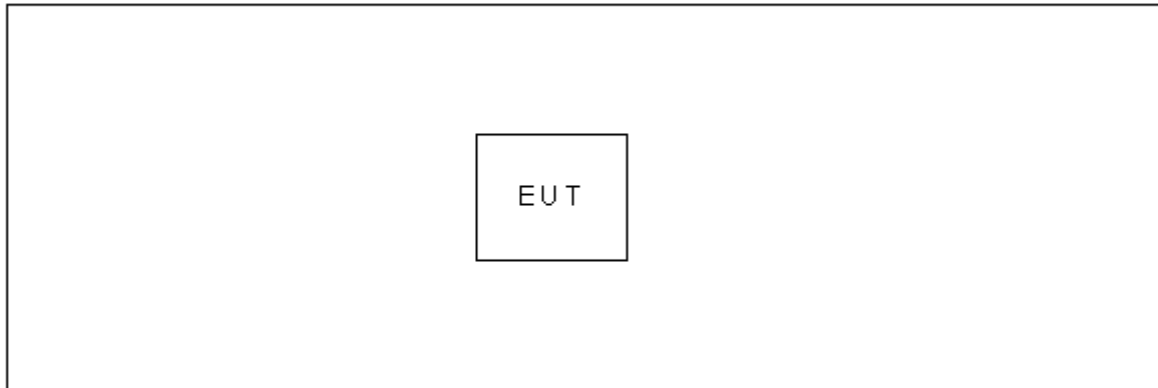
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (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	M-Tool		
Frequency (MHz)	2412	2437	2462
802.11b	79	79	76
802.11g	59	70	58
802.11n (20MHz)	54	65	55
Frequency	2422	2437	2452
802.11n (40MHz)	47	65	49

### 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.	Note
-	-	-	-	-	-	-

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 -5.0	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

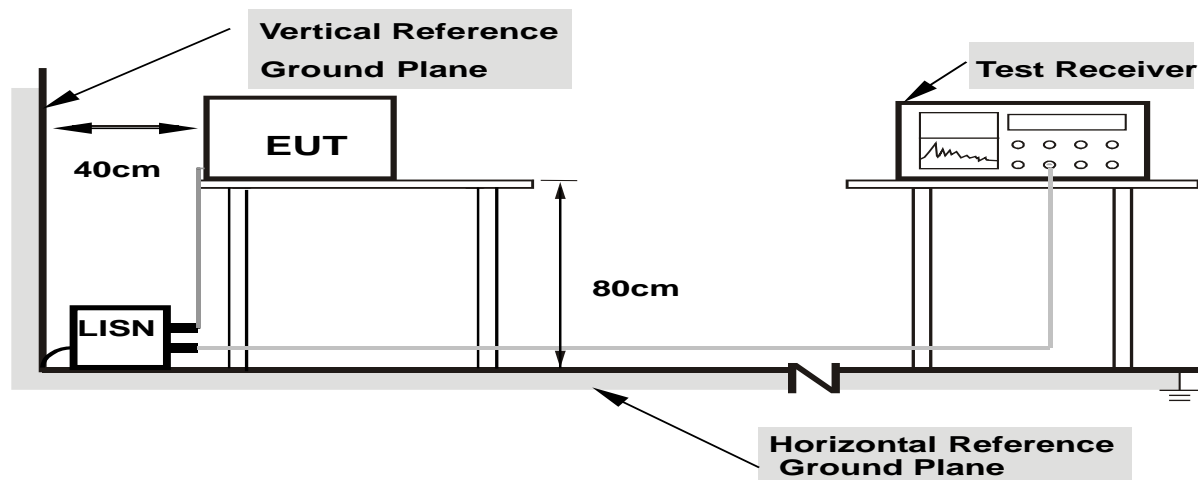
#### 4.1.2 TEST PROCEDURE

- 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 from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

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

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

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

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

#### Notes:

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

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



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

#### 4.2.2 TEST PROCEDURE

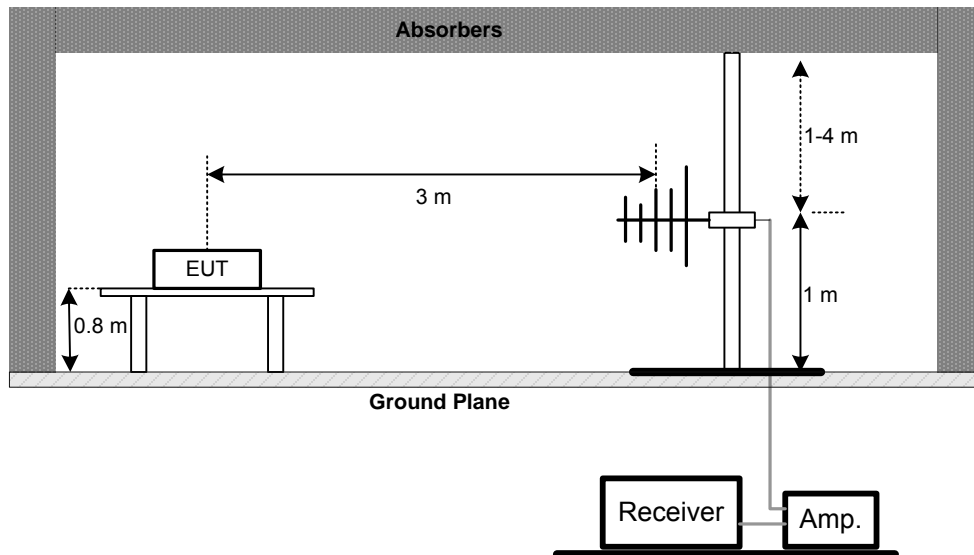
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

#### 4.2.3 DEVIATION FROM TEST STANDARD

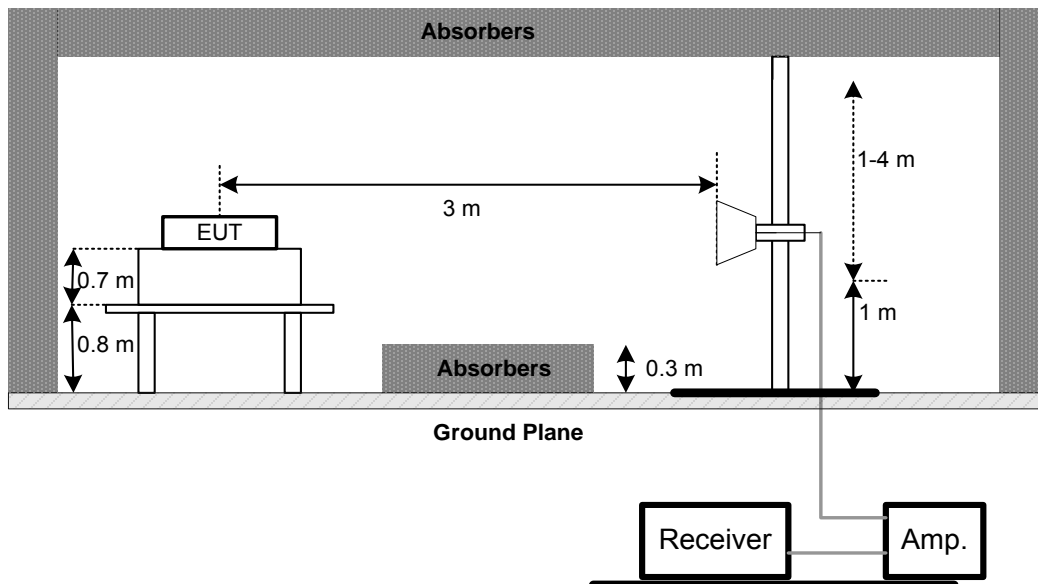
No deviation

#### 4.2.4 TEST SETUP

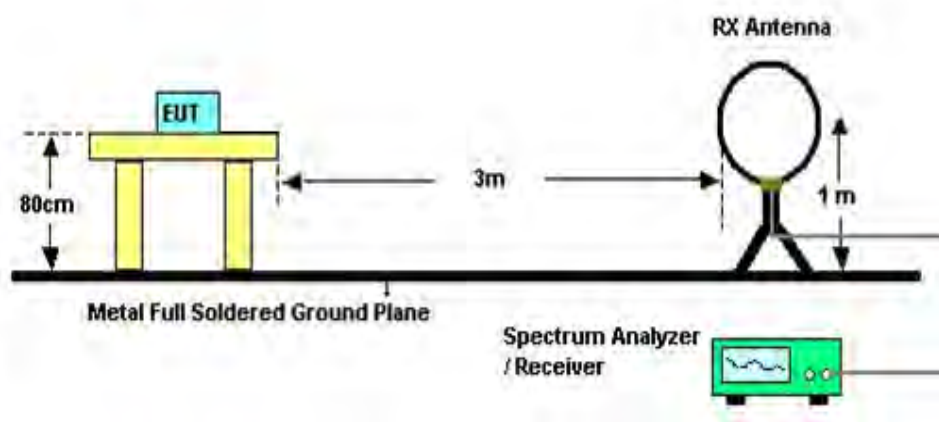
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

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

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

Please refer to the Attachment B

Remark:

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

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

Please refer to the Attachment C.

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

Please refer to the Attachment D.

Remark:

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

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

#### 5.1.1 TEST PROCEDURE

- 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: 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

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r03.

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

#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	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	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
13	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	Oct. 11, 2016

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	Oct. 11, 2016

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

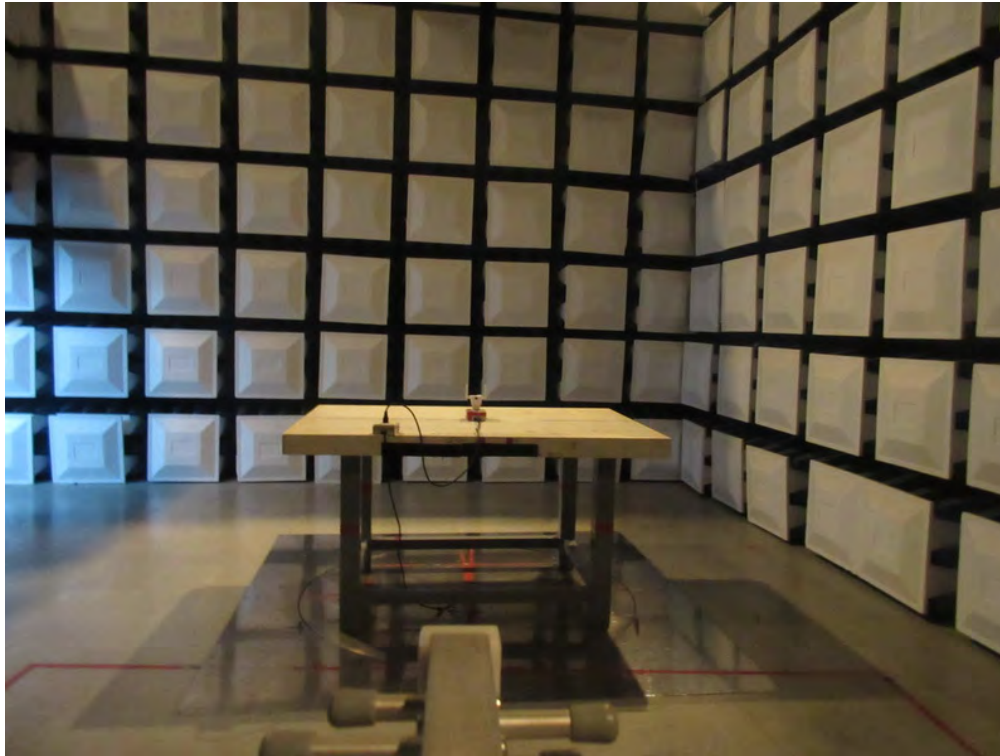
Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

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

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

## Radiated Measurement Photos

30MHz to 1000MHz

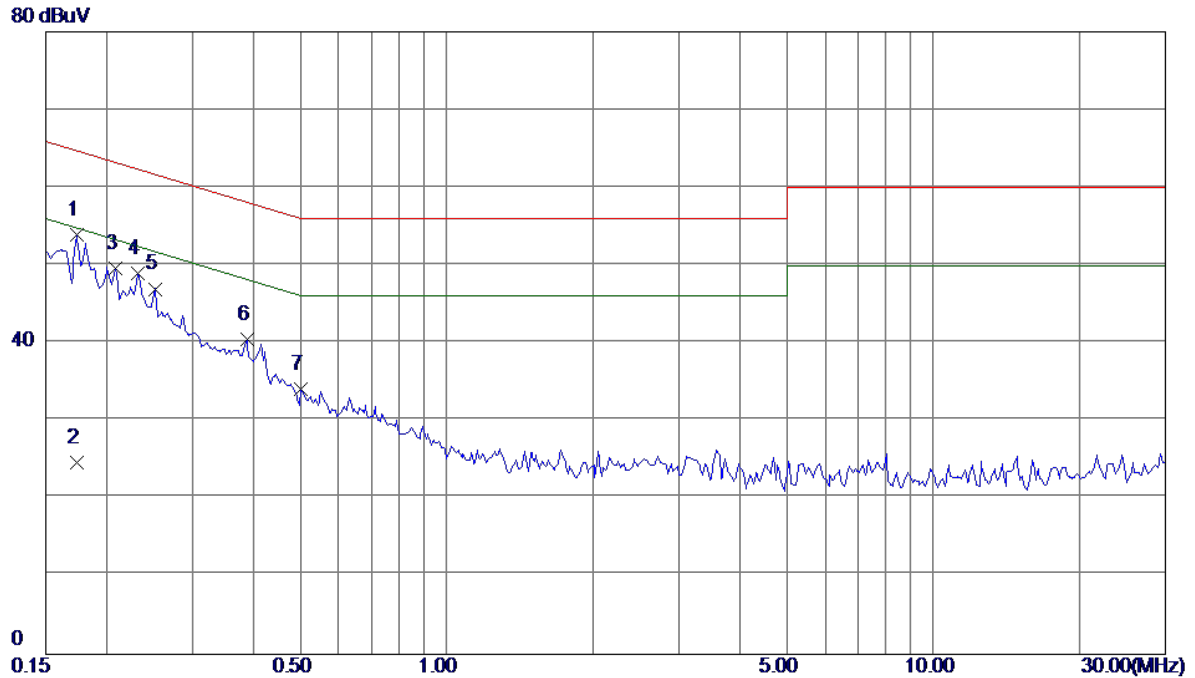


**Radiated Measurement Photos****Above 1000MHz**

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

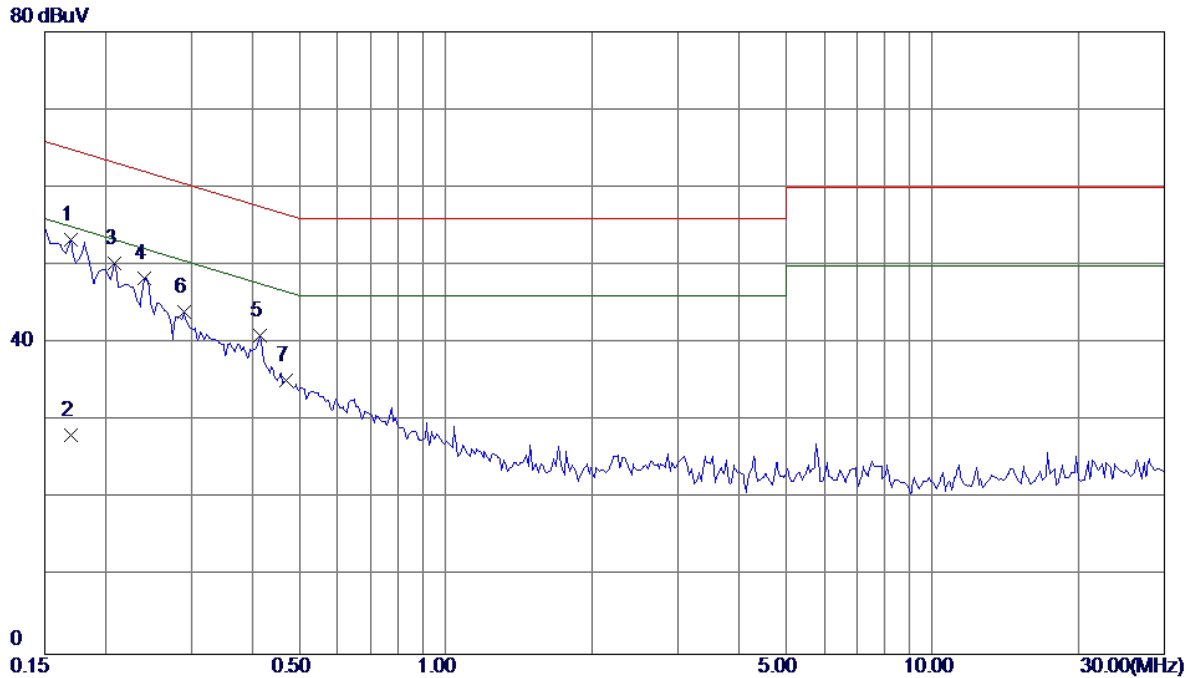
### Line



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.1734	44.42	9.56	53.98	64.80	-10.82	Peak	
2	0.1734	15.10	9.56	24.66	54.80	-30.14	AVG	
3	0.2086	40.08	9.58	49.66	63.26	-13.60	Peak	
4	0.2320	39.33	9.60	48.93	62.38	-13.45	Peak	
5	0.2516	37.35	9.61	46.96	61.70	-14.74	Peak	
6	0.3883	30.81	9.67	40.48	58.10	-17.62	Peak	
7	0.5016	24.38	9.68	34.06	56.00	-21.94	Peak	

Test Mode : Normal Link

### Neutral



No.	Freq.	Reading	Correct	Measure	Limit	Over	Detector	Comment
	MHz	dBuV/m	Factor	dBuV/m	dBuV/m	dB		
1	0.1695	43.78	9.48	53.26	64.98	-11.72	Peak	
2	0.1695	18.70	9.48	28.18	54.98	-26.80	AVG	
3	0.2086	40.80	9.50	50.30	63.26	-12.96	Peak	
4	0.2398	38.82	9.51	48.33	62.10	-13.77	Peak	
5	0.4156	31.46	9.53	40.99	57.54	-16.55	Peak	
6	0.2906	34.45	9.52	43.97	60.51	-16.54	Peak	
7	0.4703	25.64	9.55	35.19	56.51	-21.32	Peak	



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

Test Mode:	TX B MODE CHANNEL 01
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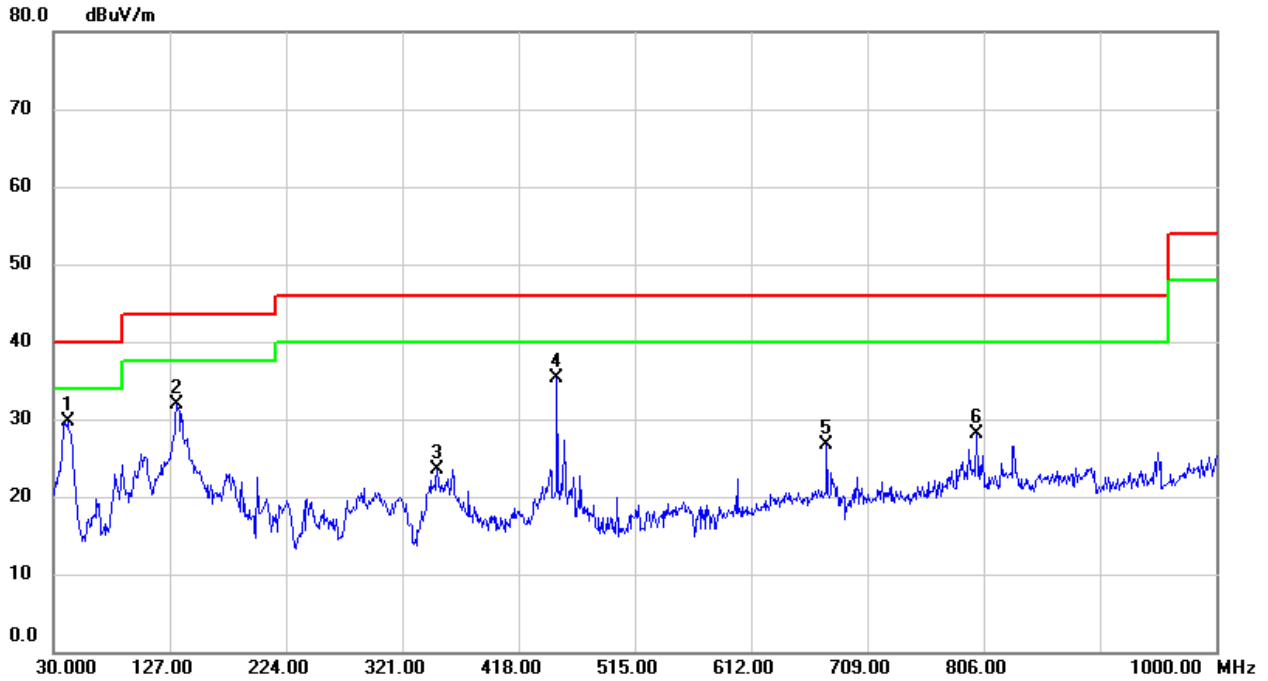
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0173	0°	13.12	24.4710	37.5910	122.8433	-85.2523	AVG
0.0173	0°	14.93	24.4710	39.4010	142.8433	-103.4423	PEAK
0.0452	0°	6.42	22.7040	29.1240	114.5015	-85.3775	AVG
0.0452	0°	8.01	22.7040	30.7140	134.5015	-103.7875	PEAK
0.0511	0°	3.77	22.3780	26.1480	113.4358	-87.2878	AVG
0.0511	0°	4.358	22.3780	26.7360	133.4358	-106.6998	PEAK
0.0735	0°	2.314	21.9300	24.2440	110.2785	-86.0345	AVG
0.0735	0°	2.61	21.9300	24.5400	130.2785	-105.7385	PEAK
0.6072	0°	19.954	20.1430	40.0970	71.9376	-31.8405	QP
1.9826	0°	23.45	19.5017	42.9517	69.5400	-26.5883	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.013	90°	12.95	24.3000	37.2500	125.3254	-88.0754	AVG
0.013	90°	14.34	24.3000	38.6400	145.3254	-106.6854	PEAK
0.0294	90°	7.01	23.7047	30.7147	118.2373	-87.5226	AVG
0.0294	90°	8.39	23.7047	32.0947	138.2373	-106.1426	PEAK
0.0401	90°	5.94	23.0270	28.9670	115.5413	-86.5743	AVG
0.0401	90°	6.33	23.0270	29.3570	135.5413	-106.1843	PEAK
0.0553	90°	1.29	22.2940	23.5840	112.7497	-89.1657	AVG
0.0553	90°	2.67	22.2940	24.9640	132.7497	-107.7857	PEAK
0.6176	90°	22.24	20.1763	42.4163	71.7901	-29.3738	QP
2.0368	90°	24.96	19.4779	44.4379	69.5400	-25.1021	QP

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

Test Mode: TX B MODE CHANNEL 01

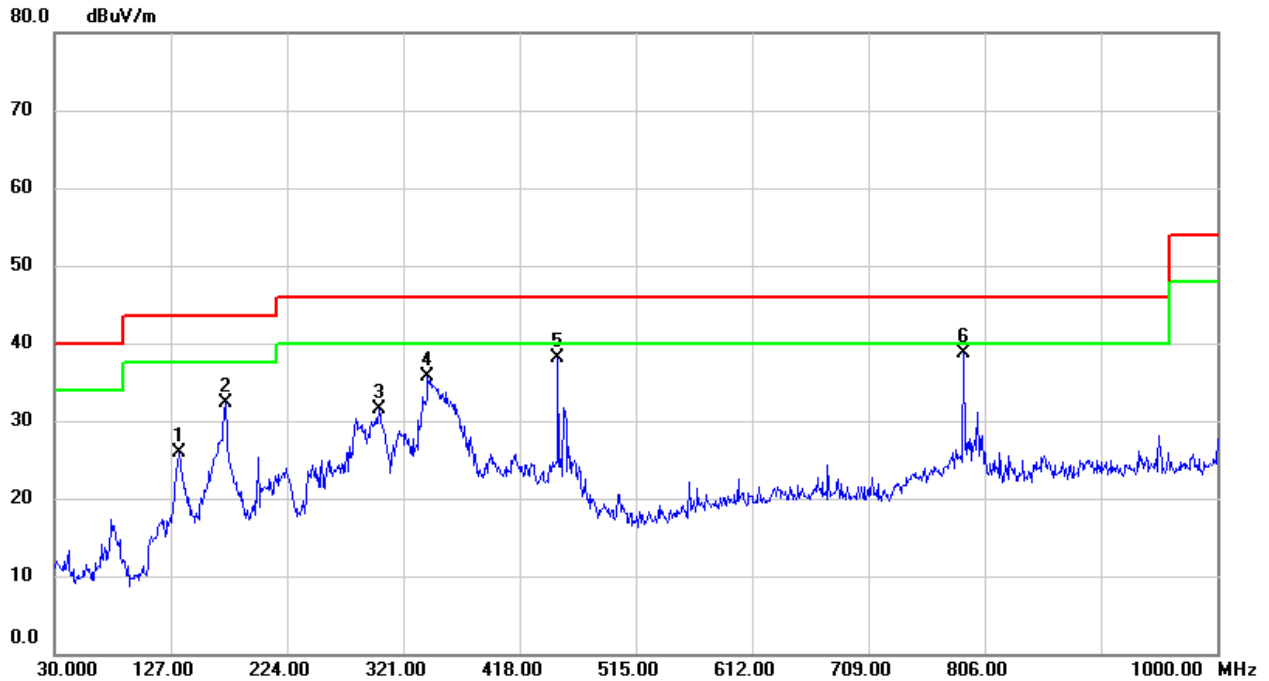
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	41.6400	44.59	-14.97	29.62	40.00	-10.38	Peak	
2	132.8200	45.70	-13.76	31.94	43.50	-11.56	Peak	
3	350.1000	34.48	-10.94	23.54	46.00	-22.46	Peak	
4	450.0100	44.68	-9.35	35.33	46.00	-10.67	Peak	
5	675.0500	32.74	-5.95	26.79	46.00	-19.21	Peak	
6	800.1800	32.08	-3.97	28.11	46.00	-17.89	Peak	

Test Mode: TX B MODE CHANNEL 01

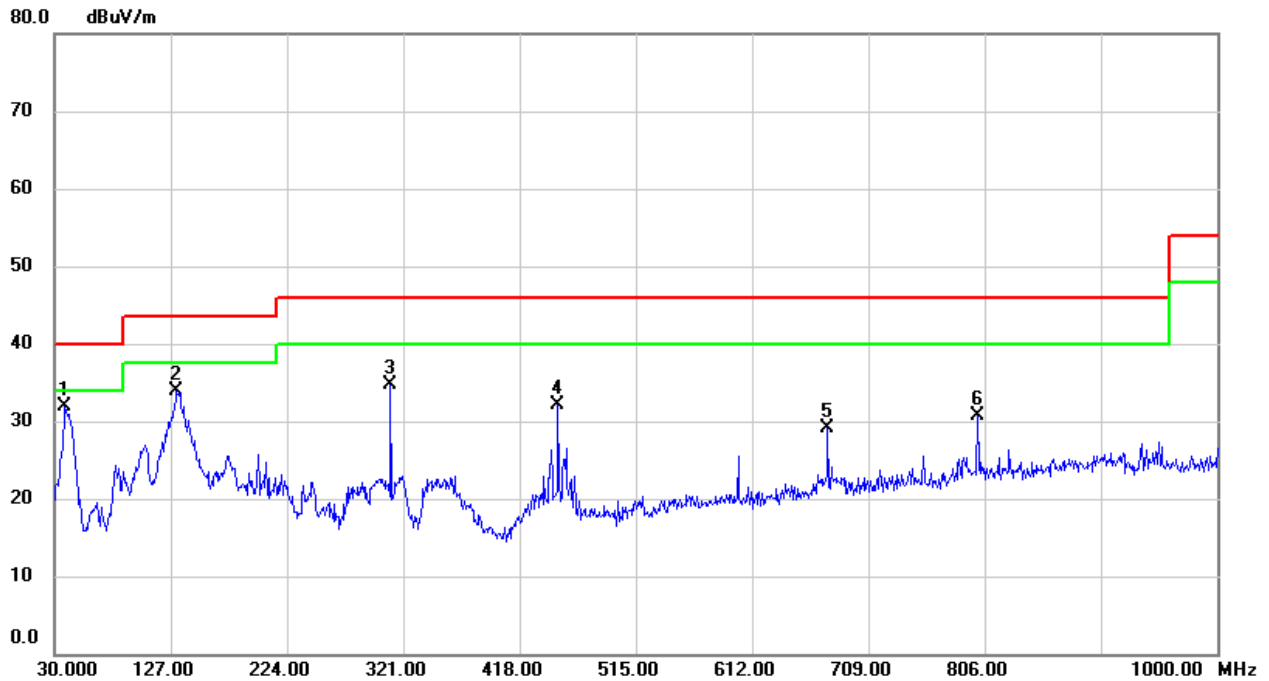
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	133.7899	39.69	-13.79	25.90	43.50	-17.60	Peak	
2	172.5900	45.05	-12.84	32.21	43.50	-11.29	Peak	
3	300.6300	42.31	-10.80	31.51	46.00	-14.49	Peak	
4	341.3700	46.70	-10.92	35.78	46.00	-10.22	Peak	
5	450.0100	47.46	-9.35	38.11	46.00	-7.89	Peak	
6	788.5400	42.95	-4.32	38.63	46.00	-7.37	Peak	

Test Mode: TX B MODE CHANNEL 06

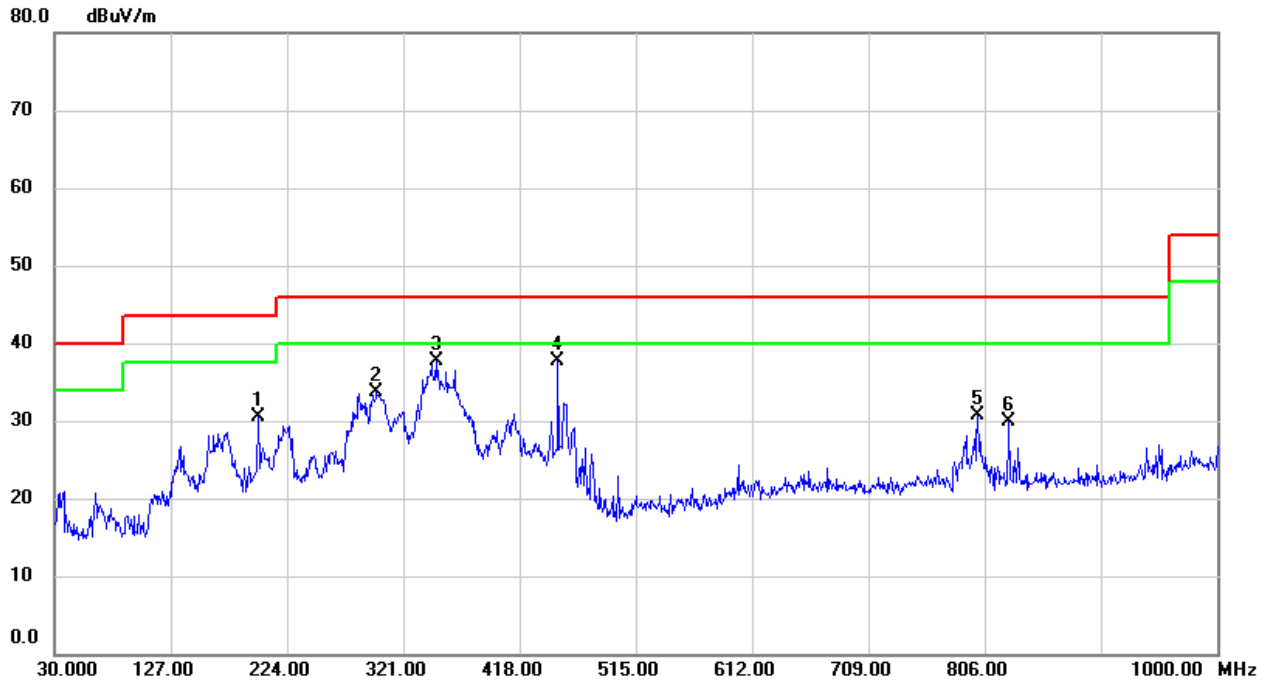
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	38.7300	46.78	-14.96	31.82	40.00	-8.18	Peak	
2	131.8500	47.60	-13.73	33.87	43.50	-9.63	Peak	
3	310.3299	45.49	-10.83	34.66	46.00	-11.34	Peak	
4	450.0100	41.47	-9.35	32.12	46.00	-13.88	Peak	
5	675.0500	35.00	-5.95	29.05	46.00	-16.95	Peak	
6	800.1800	34.63	-3.97	30.66	46.00	-15.34	Peak	

Test Mode: TX B MODE CHANNEL 06

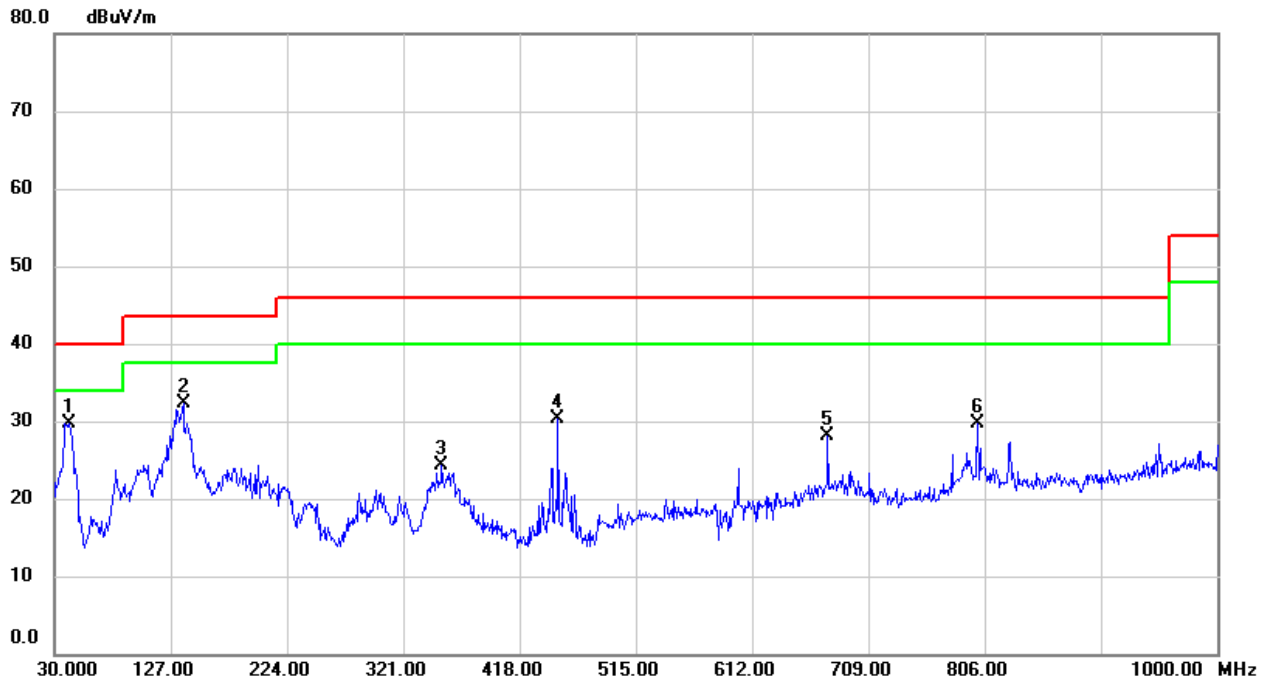
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	199.7500	45.16	-14.64	30.52	43.50	-12.98	Peak	
2	298.6900	44.70	-11.00	33.70	46.00	-12.30	Peak	
3	348.1600	48.62	-10.93	37.69	46.00	-8.31	Peak	
4	450.0100	46.96	-9.35	37.61	46.00	-8.39	Peak	
5	800.1800	34.72	-3.97	30.75	46.00	-15.25	Peak	
6	826.3700	33.42	-3.54	29.88	46.00	-16.12	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

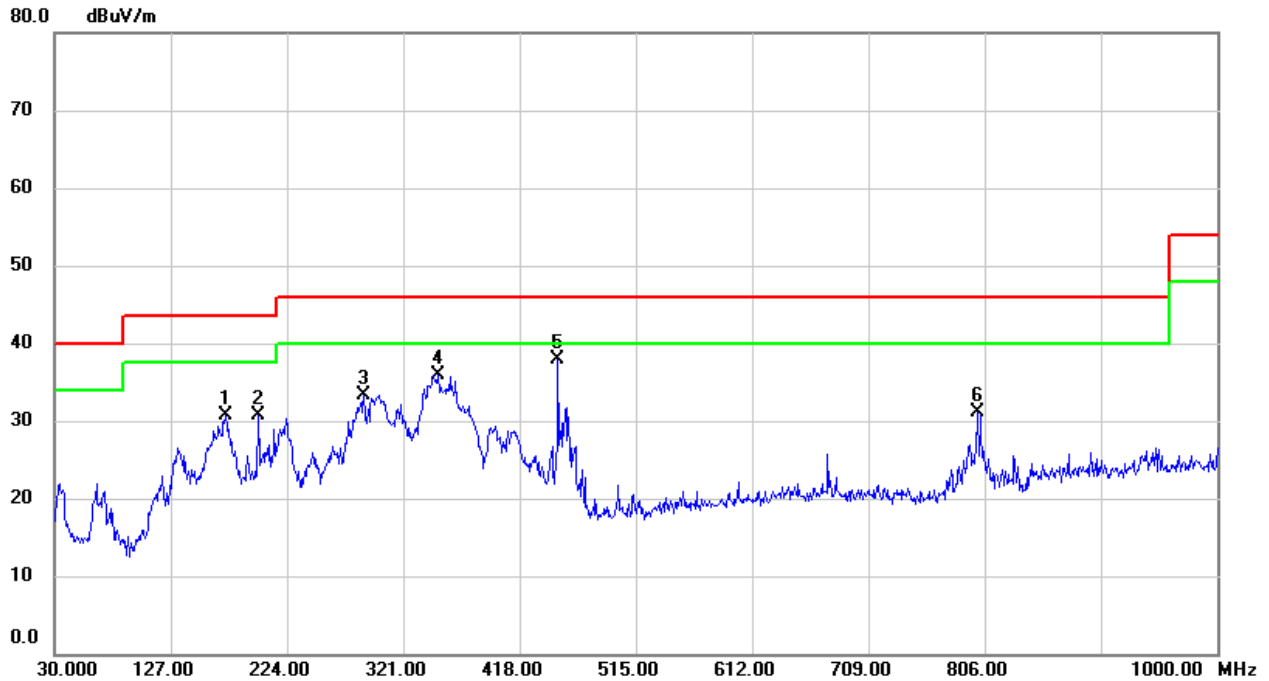


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	42.6100	44.82	-15.07	29.75	40.00	-10.25	Peak	
2	137.6700	46.23	-13.91	32.32	43.50	-11.18	Peak	
3	353.0100	35.29	-10.93	24.36	46.00	-21.64	Peak	
4	450.0100	39.74	-9.35	30.39	46.00	-15.61	Peak	
5	675.0500	34.02	-5.95	28.07	46.00	-17.93	Peak	
6	800.1800	33.65	-3.97	29.68	46.00	-16.32	Peak	



Test Mode: TX B MODE CHANNEL 11

Horizontal



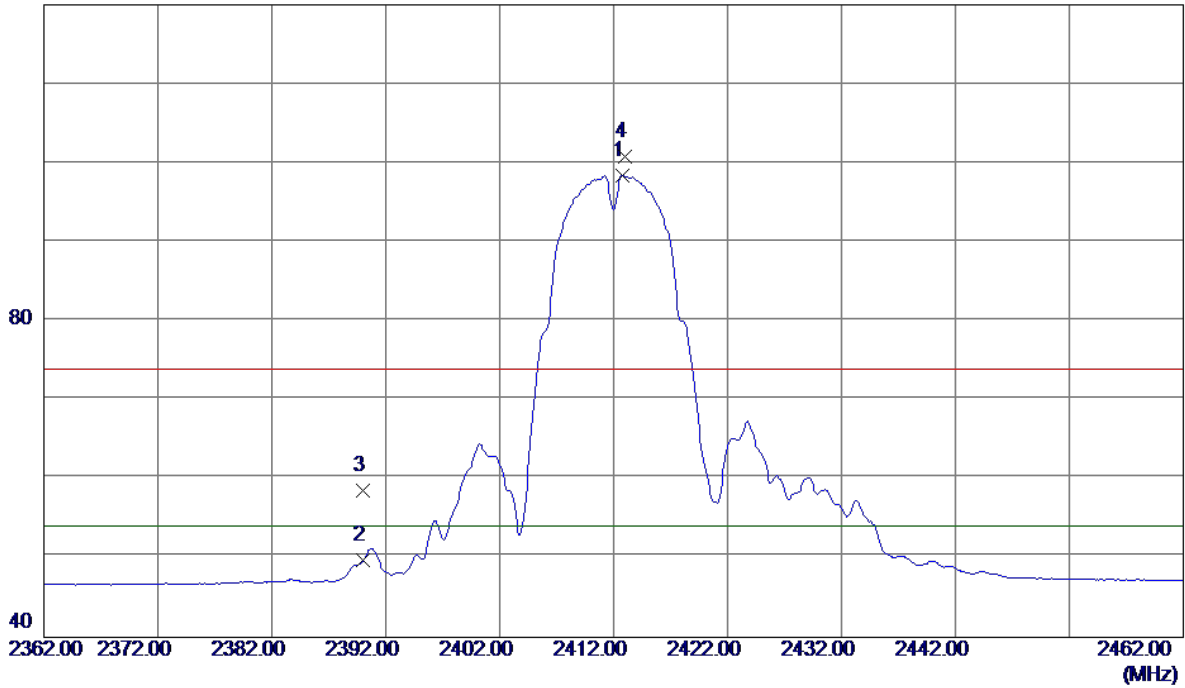
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	172.5900	43.51	-12.84	30.67	43.50	-12.83	Peak	
2	199.7500	45.41	-14.64	30.77	43.50	-12.73	Peak	
3	288.0200	45.92	-12.53	33.39	46.00	-12.61	Peak	
4	350.1000	46.82	-10.94	35.88	46.00	-10.12	Peak	
5	450.0100	47.32	-9.35	37.97	46.00	-8.03	Peak	
6	800.1800	35.07	-3.97	31.10	46.00	-14.90	Peak	

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

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

**Vertical**

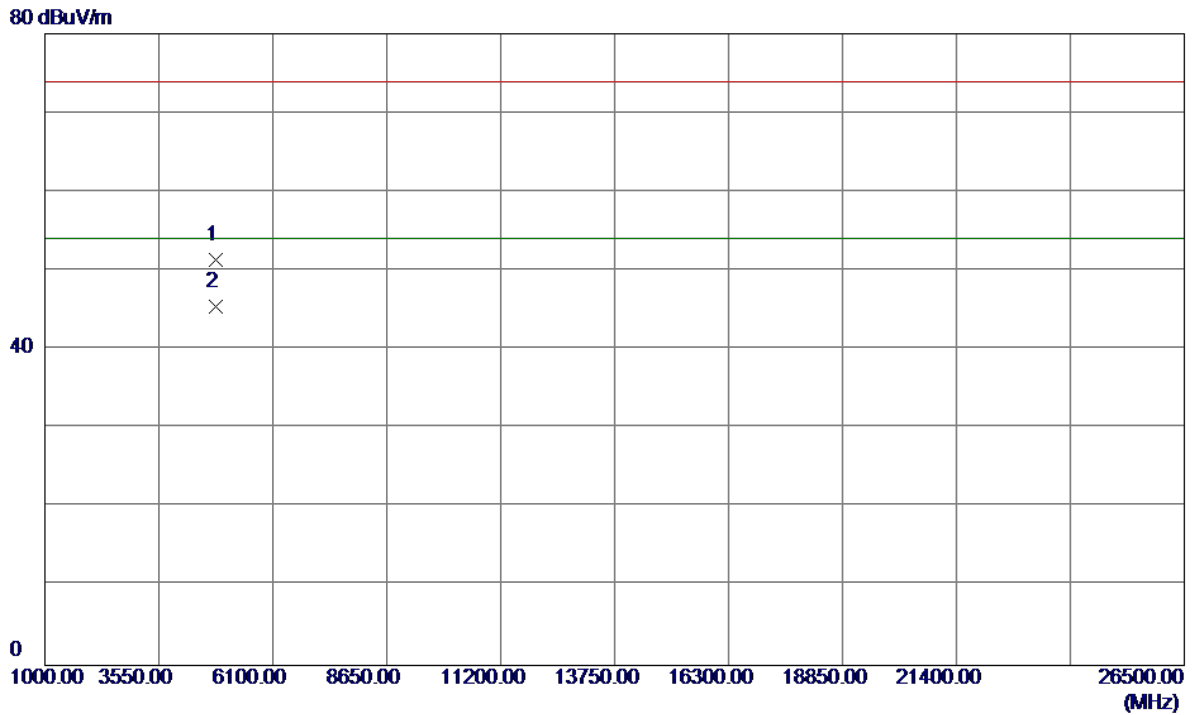
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2412.8000	65.71	32.71	98.42	54.00	44.42	AVG	NO LIMIT
2	2390.0000	17.03	32.68	49.71	54.00	-4.29	AVG	
3	2390.0000	25.81	32.68	58.49	74.00	-15.51	Peak	
4	2413.0000	68.02	32.71	100.73	74.00	26.73	Peak	NO LIMIT

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

**Vertical**

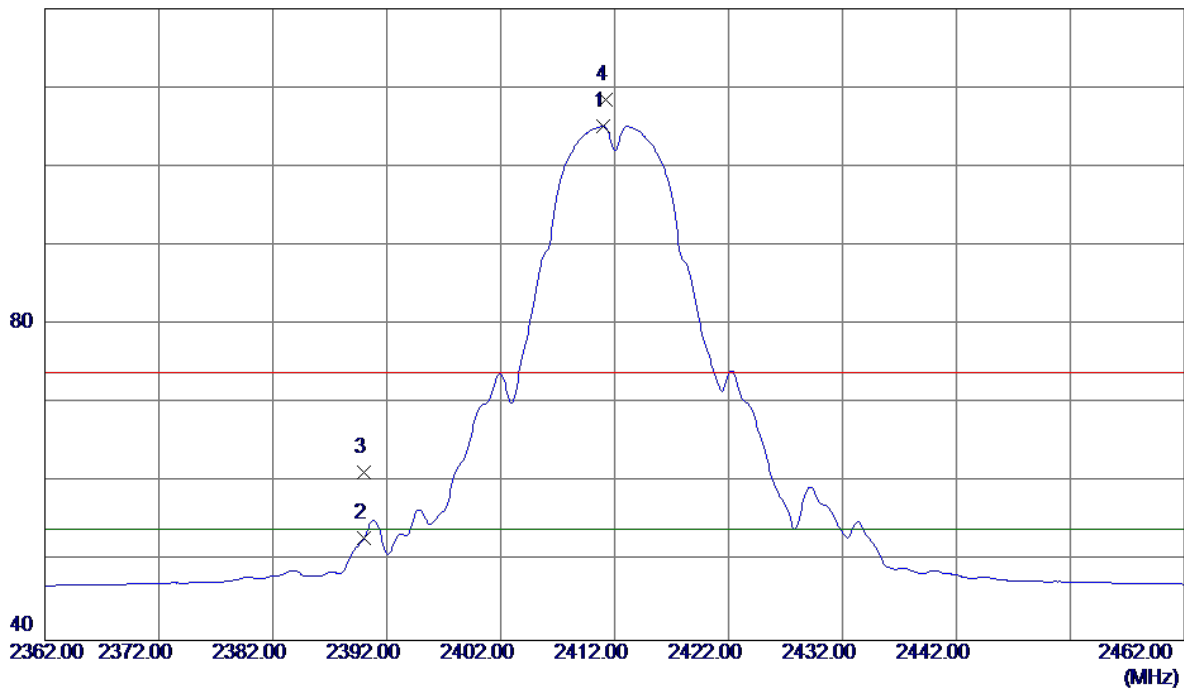


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.3720	45.56	5.87	51.43	74.00	-22.57	Peak	
2	4824.7240	39.57	5.87	45.44	54.00	-8.56	AVG	

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

### Horizontal

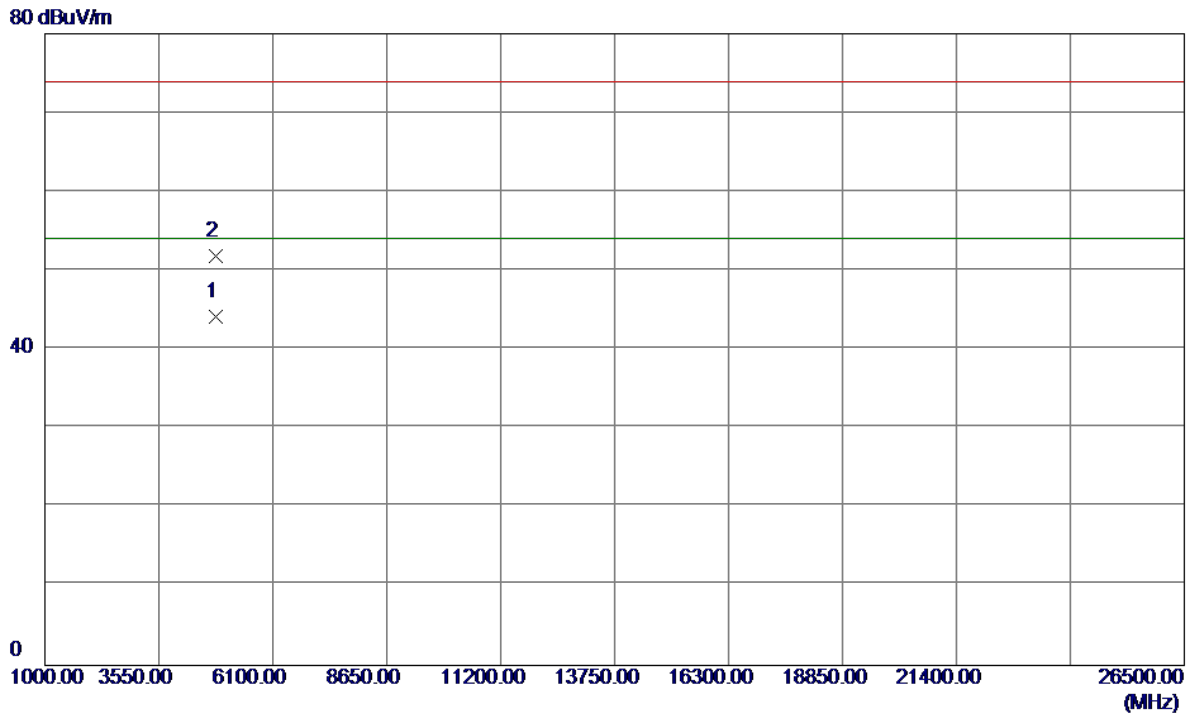
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2411.0000	72.42	32.71	105.13	54.00	51.13	AVG	NO LIMIT
2	2390.0000	20.27	32.68	52.95	54.00	-1.05	AVG	
3	2390.0000	28.61	32.68	61.29	74.00	-12.71	Peak	
4	2411.2000	75.74	32.71	108.45	74.00	34.45	Peak	NO LIMIT

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

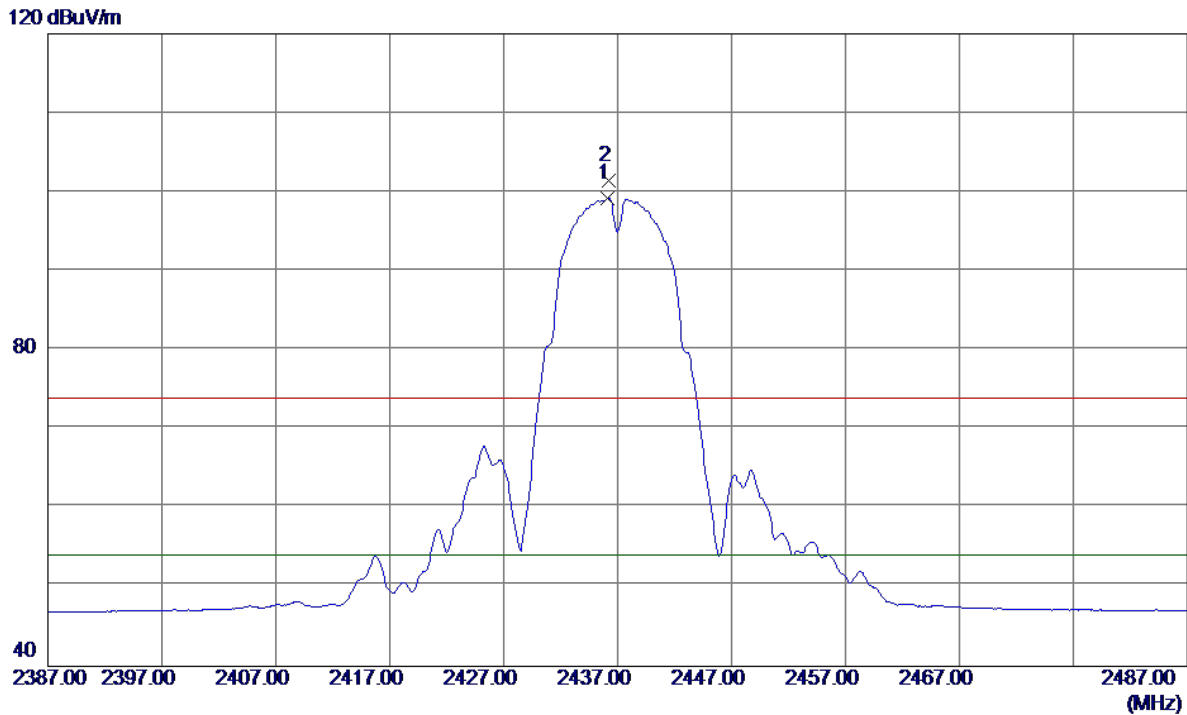
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.7200	38.23	5.87	44.10	54.00	-9.90	AVG	
2	4824.7000	45.94	5.87	51.81	74.00	-22.19	Peak	

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

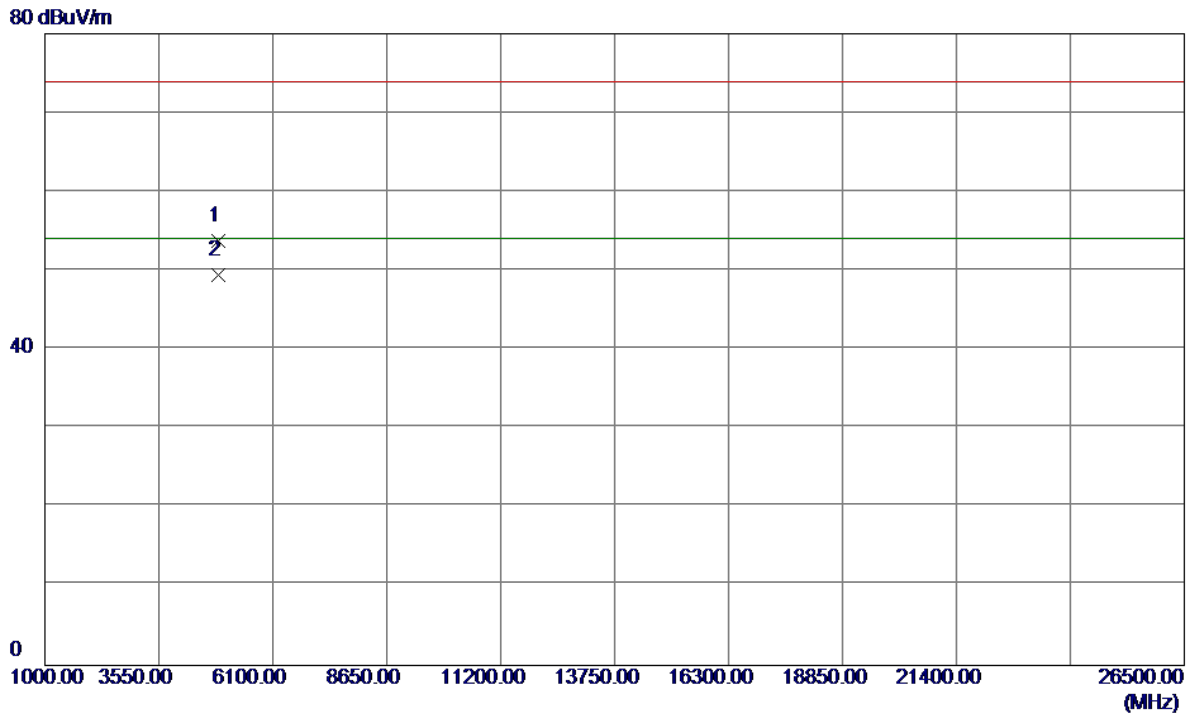
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	66.53	32.74	99.27	54.00	45.27	AVG	NO LIMIT
2	2436.2000	68.76	32.74	101.50	74.00	27.50	Peak	NO LIMIT

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

**Vertical**

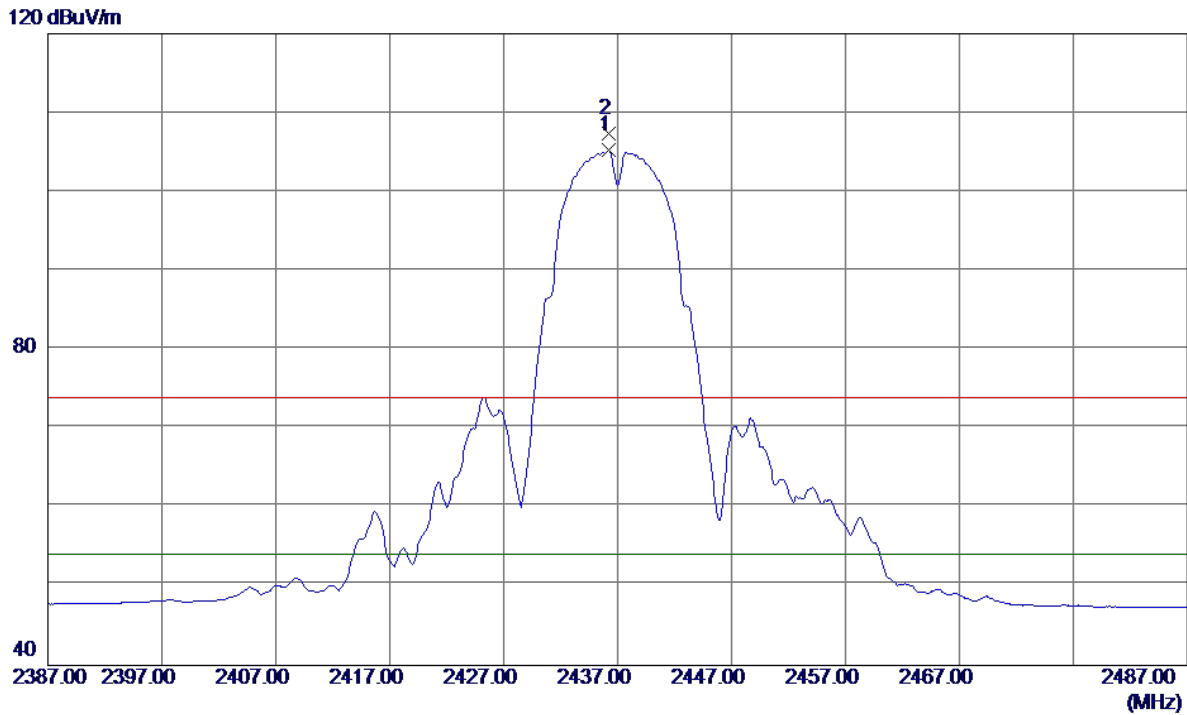


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.3400	47.73	6.00	53.73	74.00	-20.27	Peak	
2	4874.3300	43.48	6.00	49.48	54.00	-4.52	AVG	



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

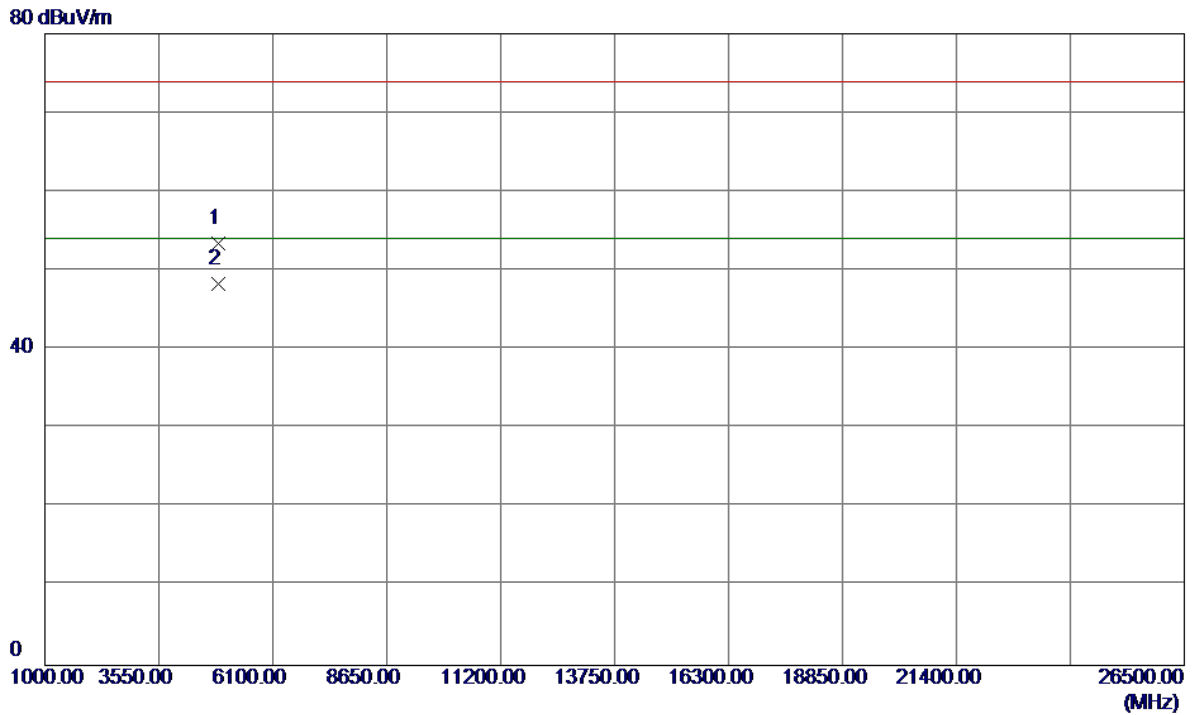
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.2000	72.50	32.74	105.24	54.00	51.24	AVG	NO LIMIT
2	2436.2000	74.69	32.74	107.43	74.00	33.43	Peak	NO LIMIT

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

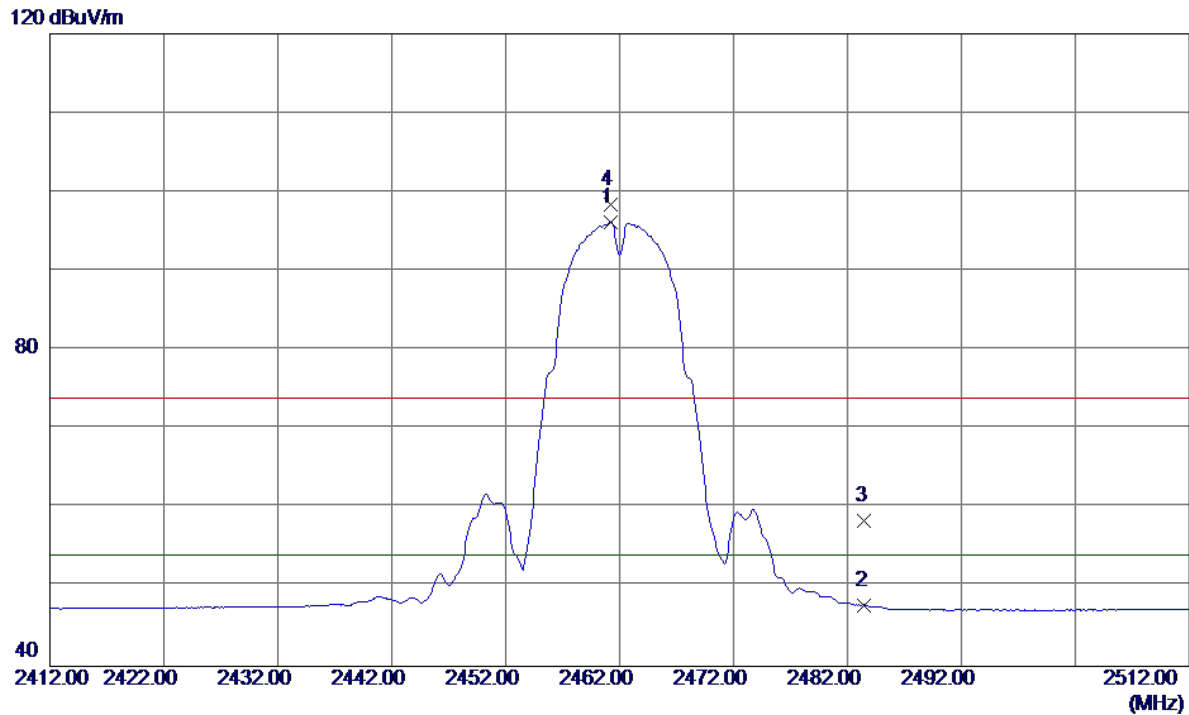
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9150	47.41	6.00	53.41	74.00	-20.59	Peak	
2	4874.0400	42.25	6.00	48.25	54.00	-5.75	AVG	

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

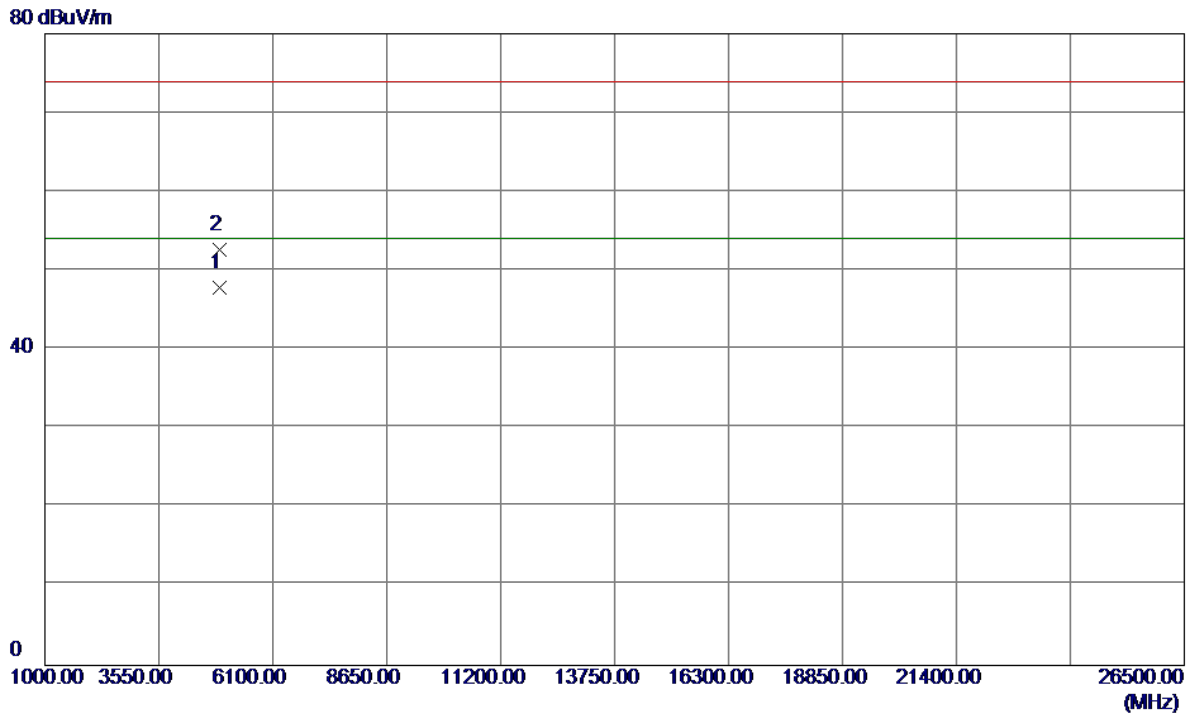
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	63.39	32.78	96.17	54.00	42.17	AVG	NO LIMIT
2	2483.5000	14.93	32.81	47.74	54.00	-6.26	AVG	
3	2483.5000	25.54	32.81	58.35	74.00	-15.65	Peak	
4	2461.2000	65.68	32.78	98.46	74.00	24.46	Peak	NO LIMIT

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

### Vertical

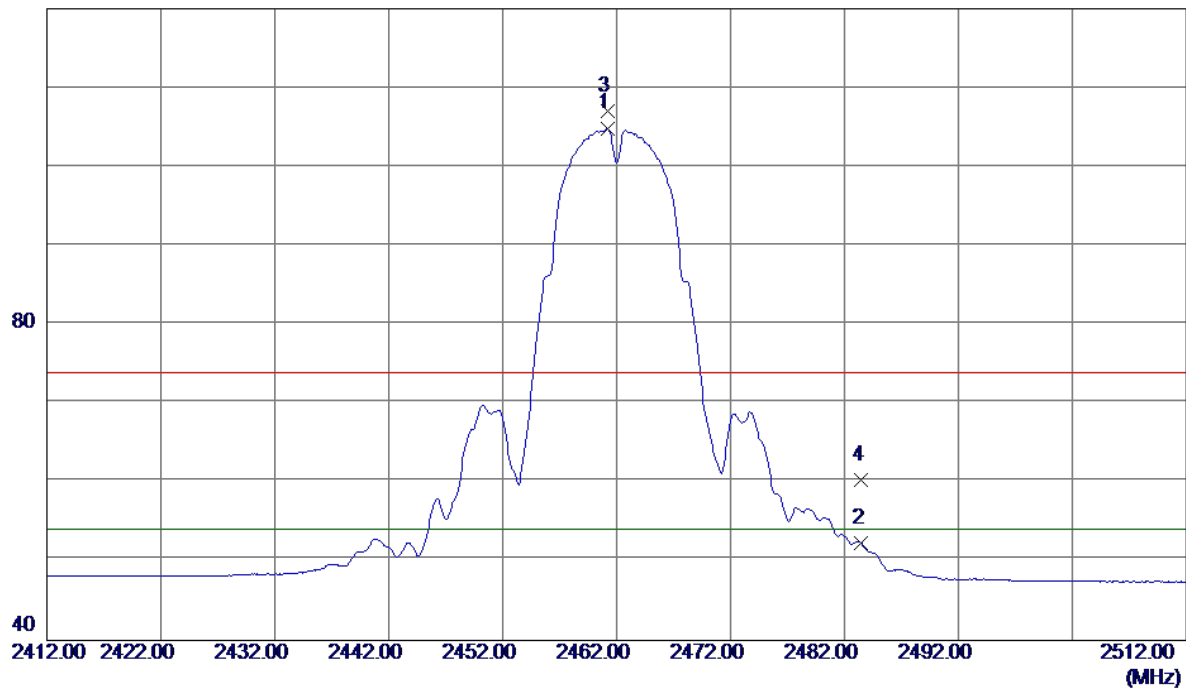


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0150	41.71	6.14	47.85	54.00	-6.15	AVG	
2	4924.0550	46.43	6.14	52.57	74.00	-21.43	Peak	

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

### Horizontal

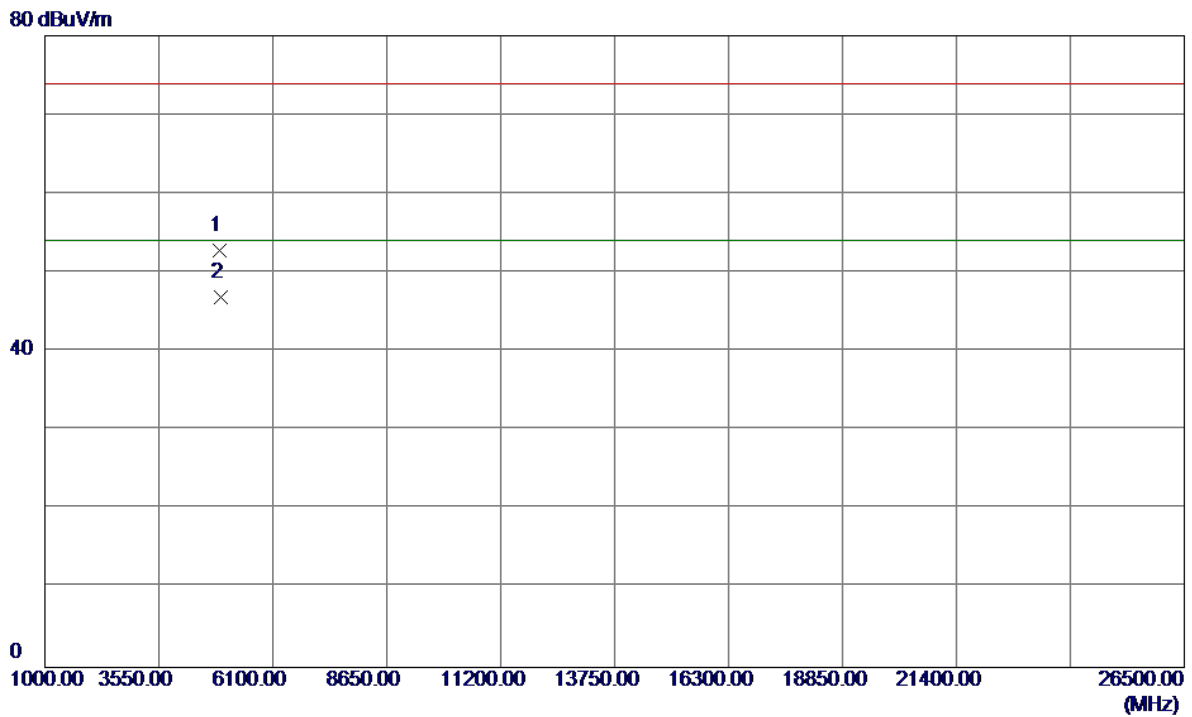
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	72.10	32.78	104.88	54.00	50.88	AVG	NO LIMIT
2	2483.5000	19.44	32.81	52.25	54.00	-1.75	AVG	
3	2461.2000	74.33	32.78	107.11	74.00	33.11	Peak	NO LIMIT
4	2483.5000	27.58	32.81	60.39	74.00	-13.61	Peak	

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

### Horizontal

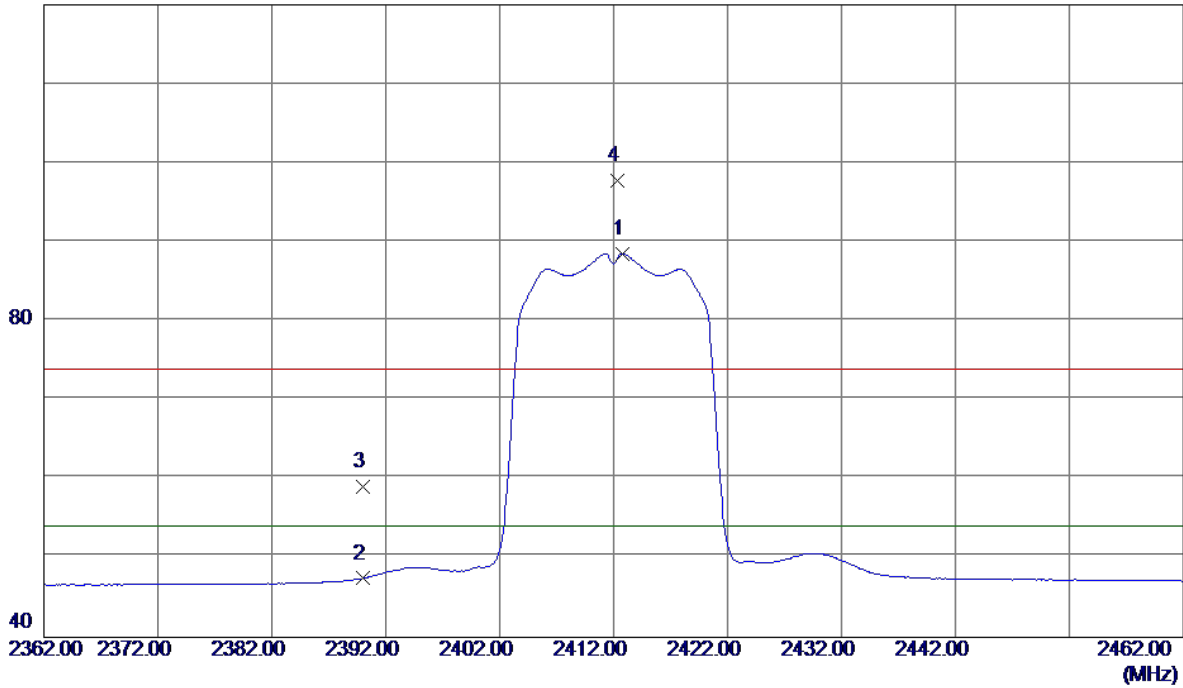


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.2759	46.73	6.14	52.87	74.00	-21.13	Peak	
2	4924.2400	40.69	6.14	46.83	54.00	-7.17	AVG	

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

**Vertical**

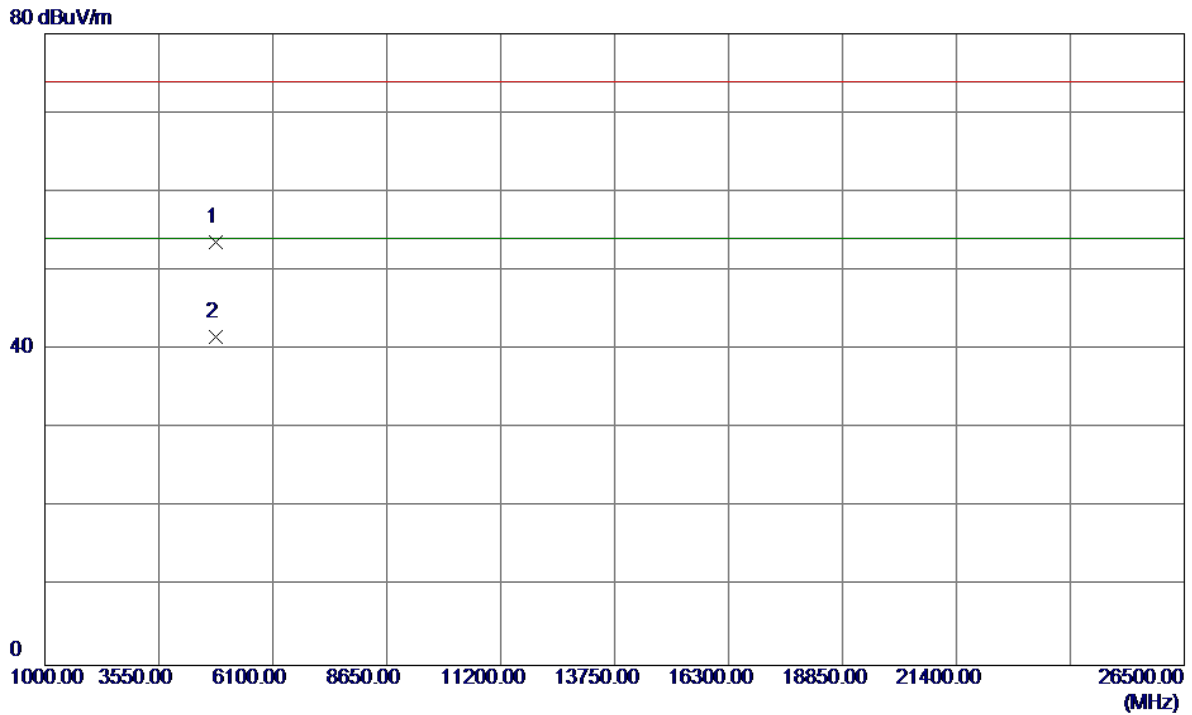
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2412.8000	55.81	32.71	88.52	54.00	34.52	AVG	NO LIMIT
2	2390.0000	14.76	32.68	47.44	54.00	-6.56	AVG	
3	2390.0000	26.29	32.68	58.97	74.00	-15.03	Peak	
4	2412.3000	64.98	32.71	97.69	74.00	23.69	Peak	NO LIMIT

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

**Vertical**

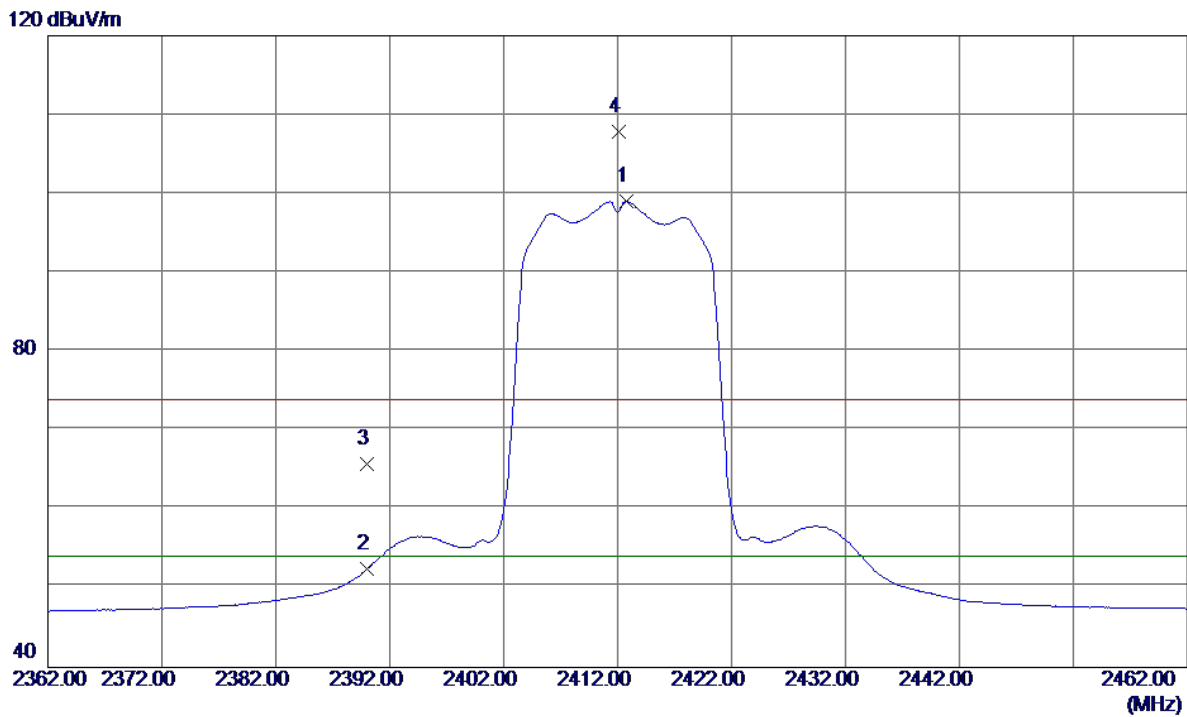


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.6100	47.67	5.87	53.54	74.00	-20.46	Peak	
2	4824.6720	35.67	5.87	41.54	54.00	-12.46	AVG	



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

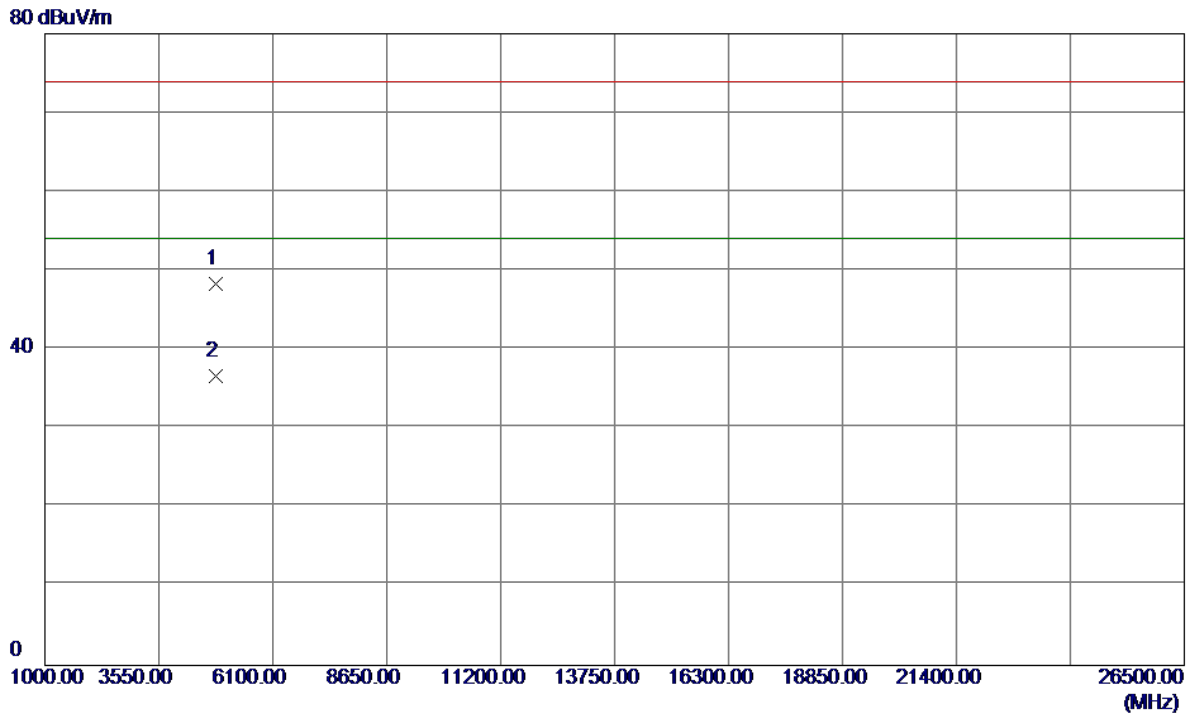
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2412.8000	66.27	32.71	98.98	54.00	44.98	AVG	NO LIMIT
2	2390.0000	19.76	32.68	52.44	54.00	-1.56	AVG	
3	2390.0000	33.08	32.68	65.76	74.00	-8.24	Peak	
4	2412.1000	75.17	32.71	107.88	74.00	33.88	Peak	NO LIMIT

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

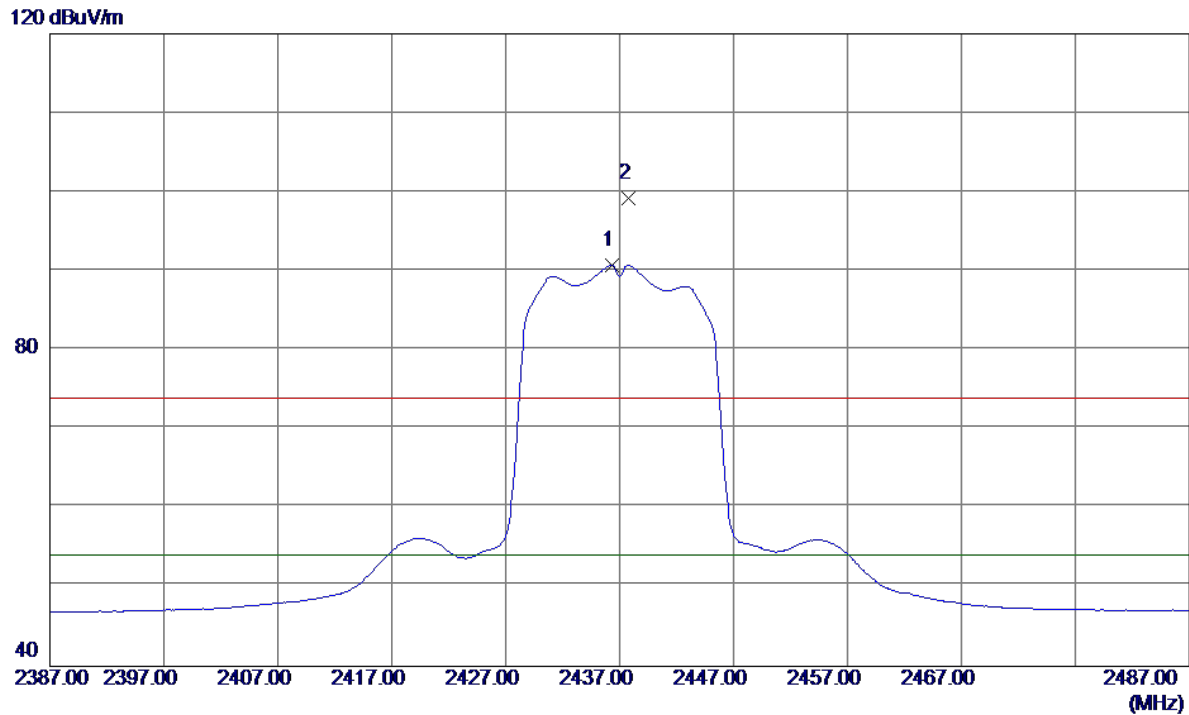
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9700	42.44	5.87	48.31	74.00	-25.69	Peak	
2	4824.0600	30.78	5.87	36.65	54.00	-17.35	AVG	

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

**Vertical**

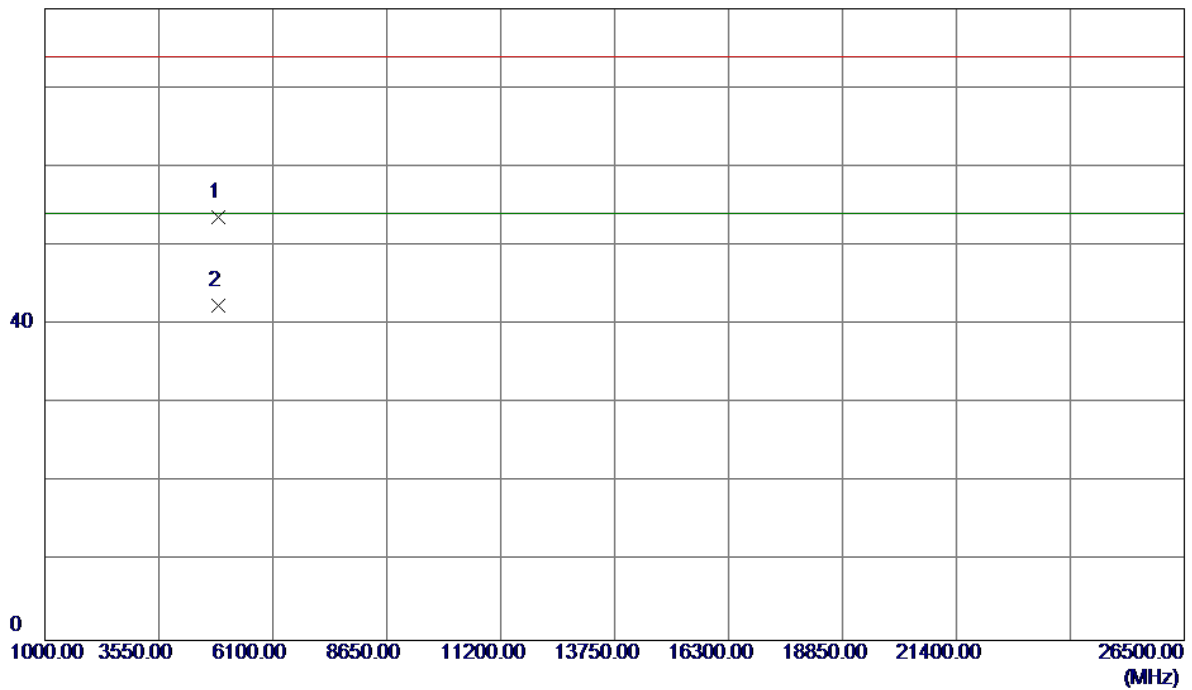


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.3000	57.96	32.74	90.70	54.00	36.70	AVG	NO LIMIT
2	2437.8000	66.52	32.74	99.26	74.00	25.26	Peak	NO LIMIT

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

**Vertical**

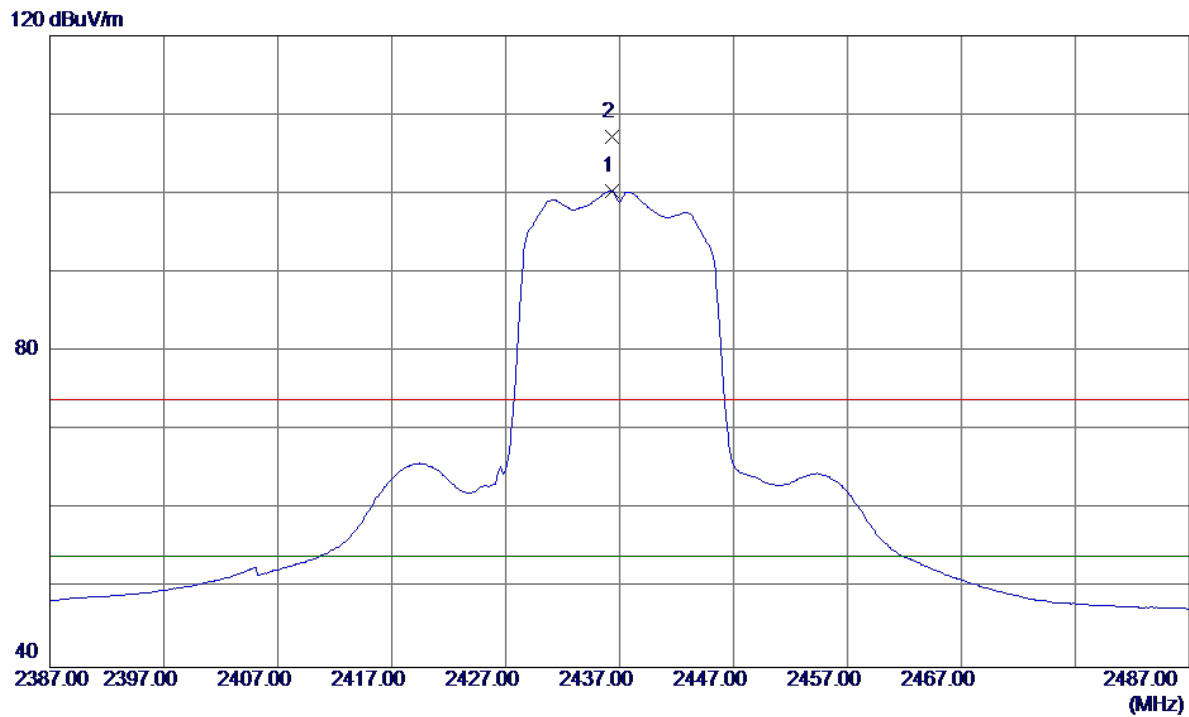
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	47.55	6.00	53.55	74.00	-20.45	Peak	
2	4874.0000	36.37	6.00	42.37	54.00	-11.63	AVG	

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

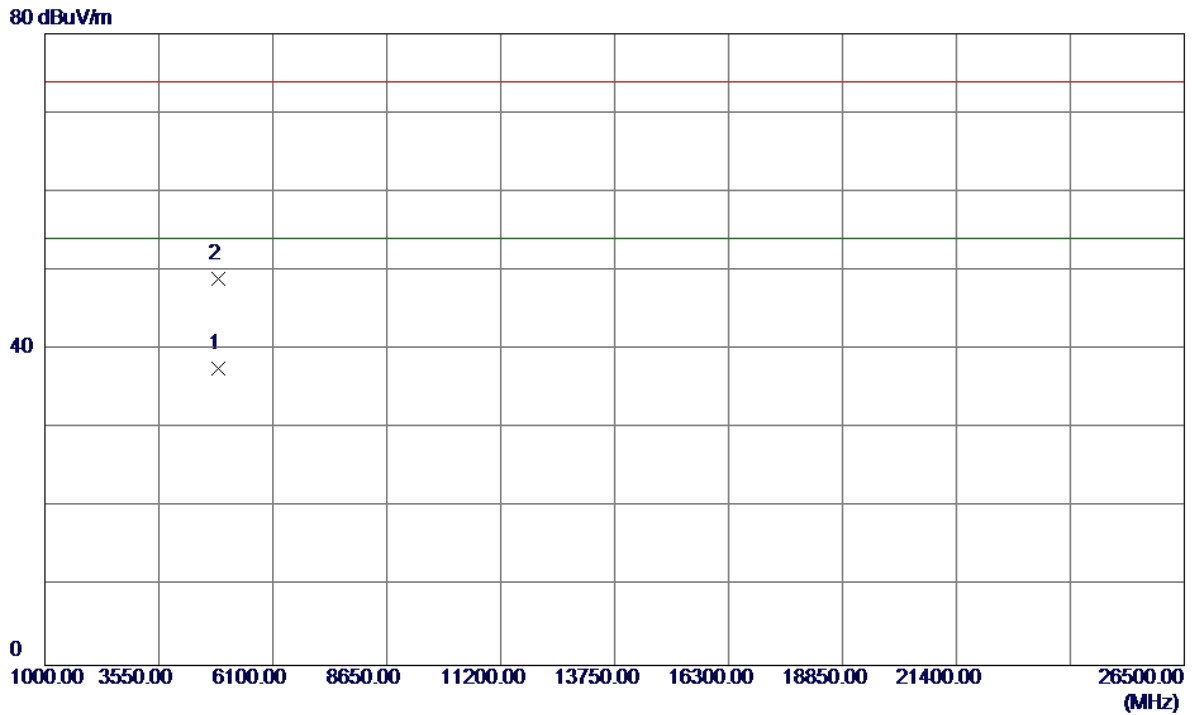
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.3000	67.60	32.74	100.34	54.00	46.34	AVG	NO LIMIT
2	2436.3000	74.48	32.74	107.22	74.00	33.22	Peak	NO LIMIT

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

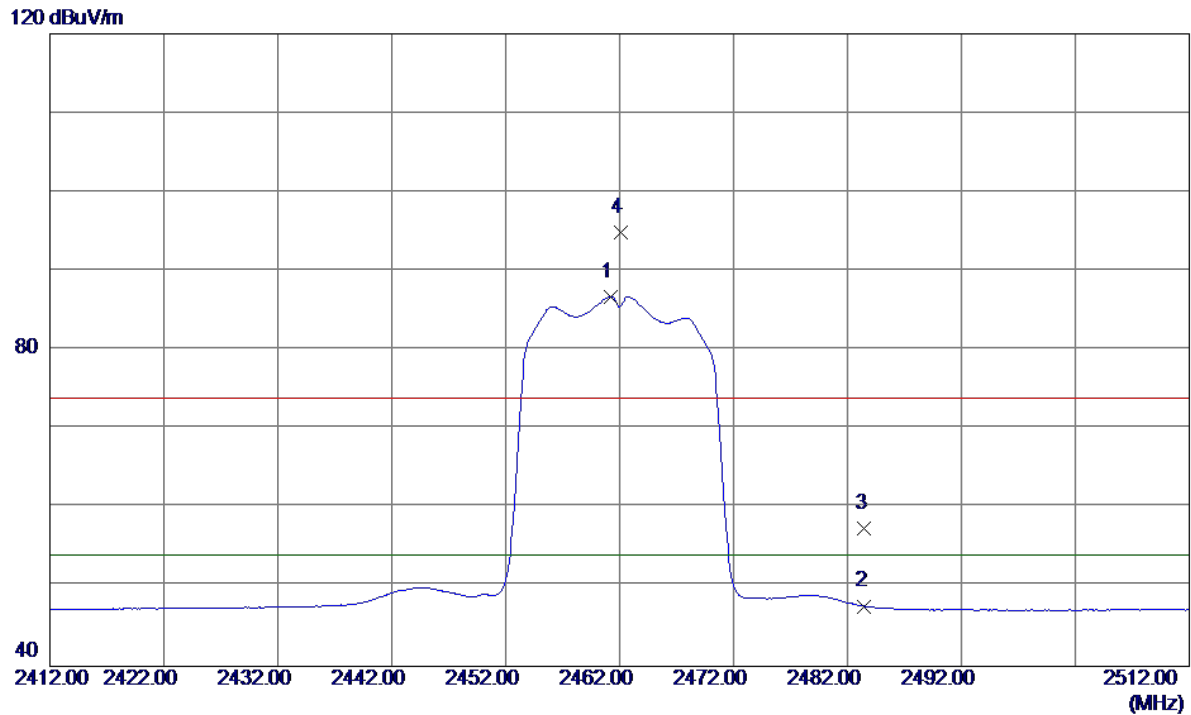
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6000	31.65	6.01	37.66	54.00	-16.34	AVG	
2	4874.7390	42.91	6.01	48.92	74.00	-25.08	Peak	

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

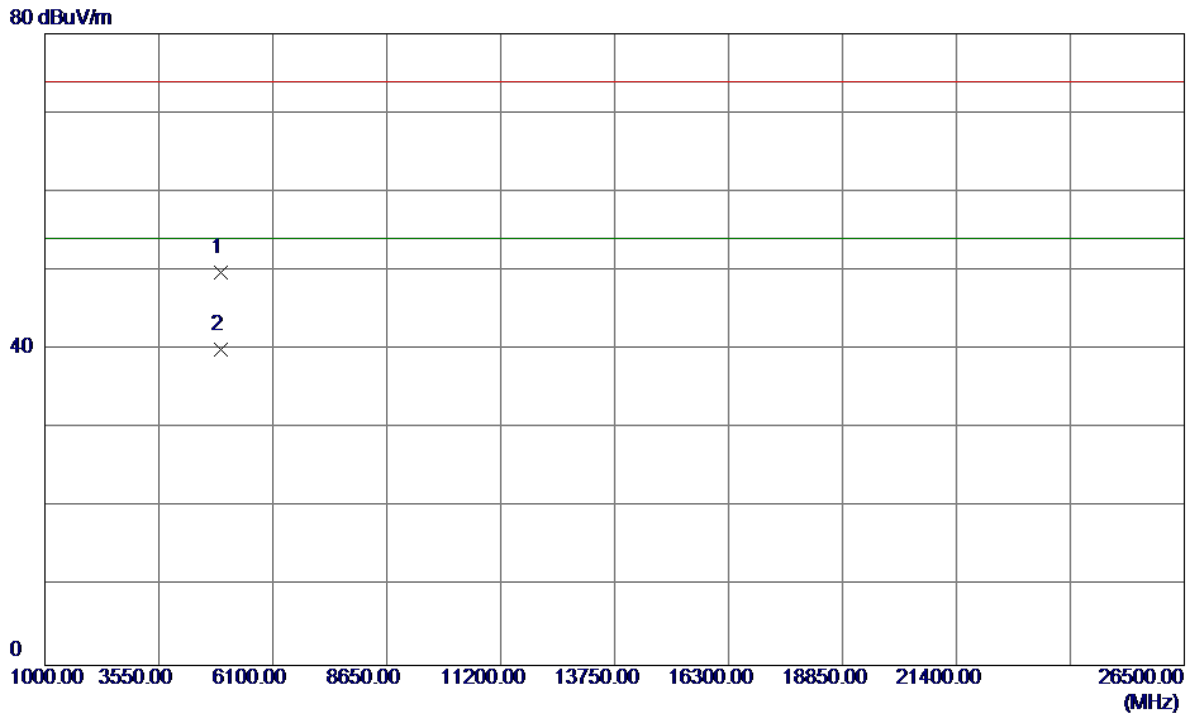
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	54.01	32.78	86.79	54.00	32.79	AVG	NO LIMIT
2	2483.5000	14.79	32.81	47.60	54.00	-6.40	AVG	
3	2483.5000	24.68	32.81	57.49	74.00	-16.51	Peak	
4	2462.1000	62.15	32.78	94.93	74.00	20.93	Peak	NO LIMIT

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

### Vertical



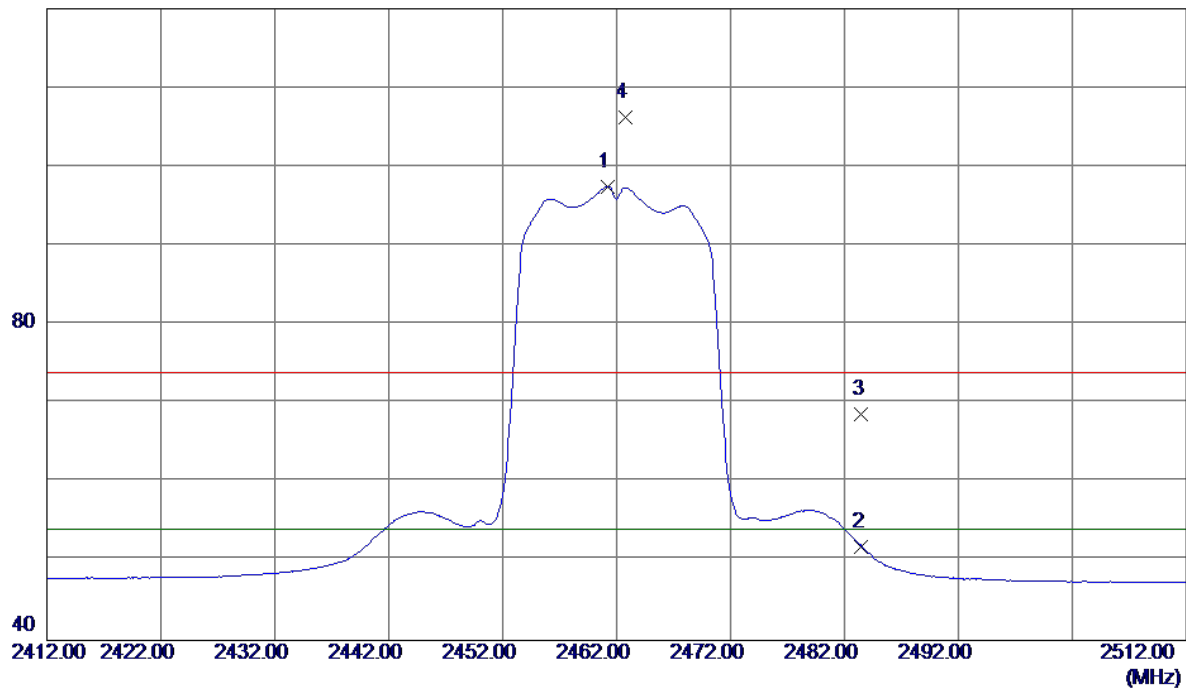
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.3480	43.64	6.14	49.78	74.00	-24.22	Peak	
2	4924.9900	33.91	6.14	40.05	54.00	-13.95	AVG	



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

### Horizontal

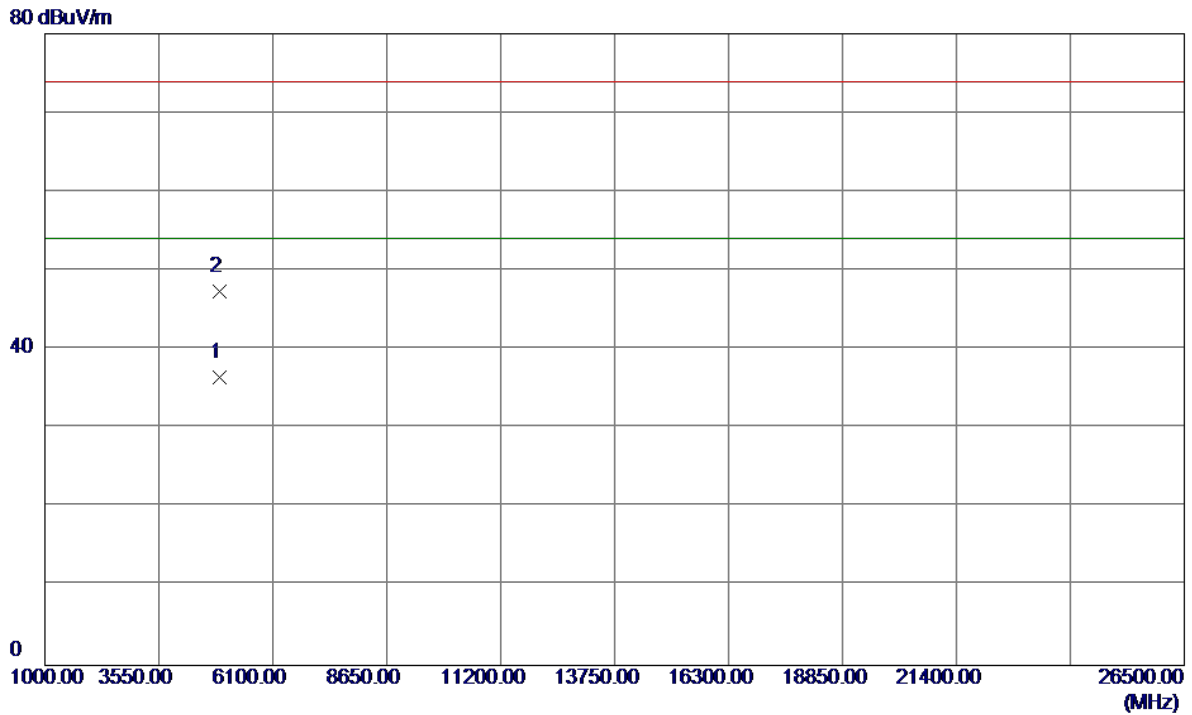
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	64.66	32.78	97.44	54.00	43.44	AVG	NO LIMIT
2	2483.5000	19.10	32.81	51.91	54.00	-2.09	AVG	
3	2483.5000	35.87	32.81	68.68	74.00	-5.32	Peak	
4	2462.8000	73.51	32.78	106.29	74.00	32.29	Peak	NO LIMIT

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

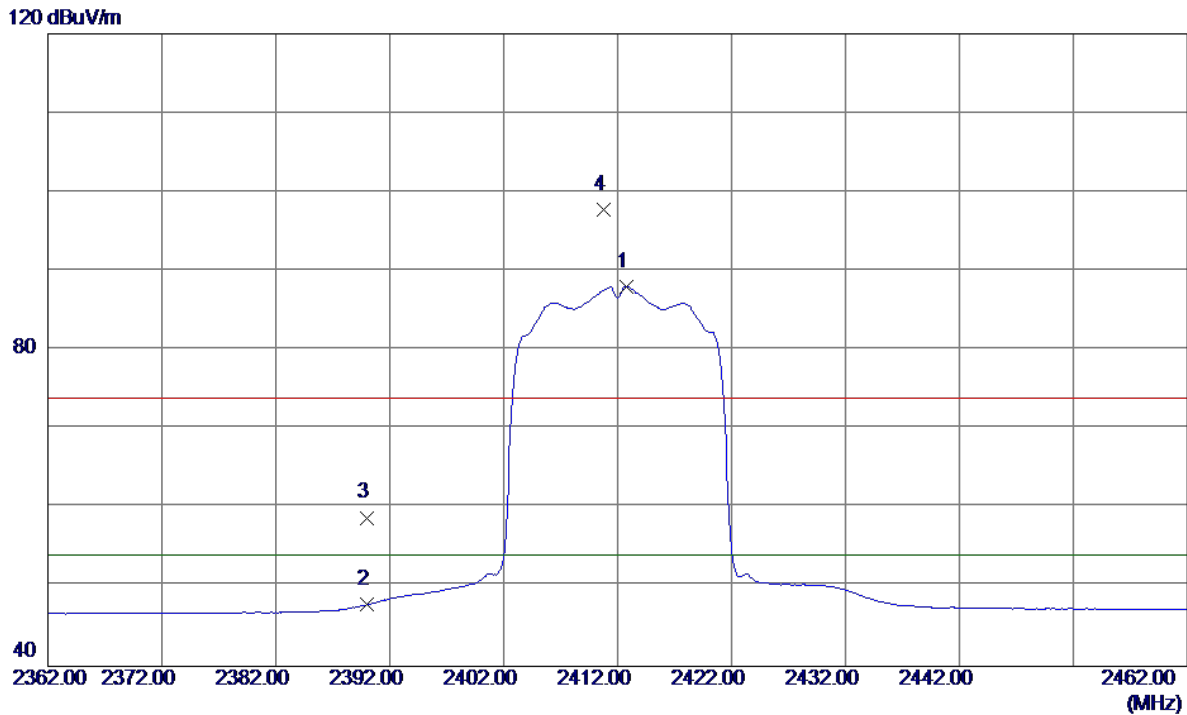
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0500	30.34	6.14	36.48	54.00	-17.52	AVG	
2	4924.1400	41.18	6.14	47.32	74.00	-26.68	Peak	

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

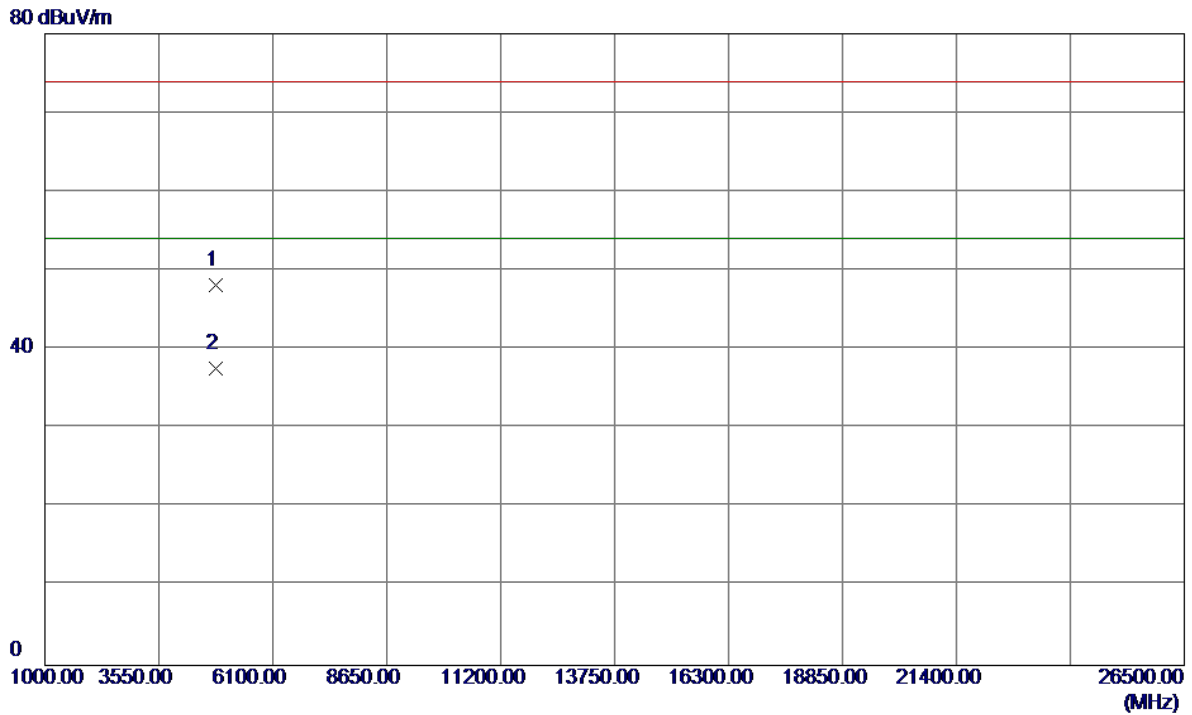
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2412.8000	55.30	32.71	88.01	54.00	34.01	AVG	NO LIMIT
2	2390.0000	15.09	32.68	47.77	54.00	-6.23	AVG	
3	2390.0000	26.12	32.68	58.80	74.00	-15.20	Peak	
4	2410.8000	65.00	32.71	97.71	74.00	23.71	Peak	NO LIMIT

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

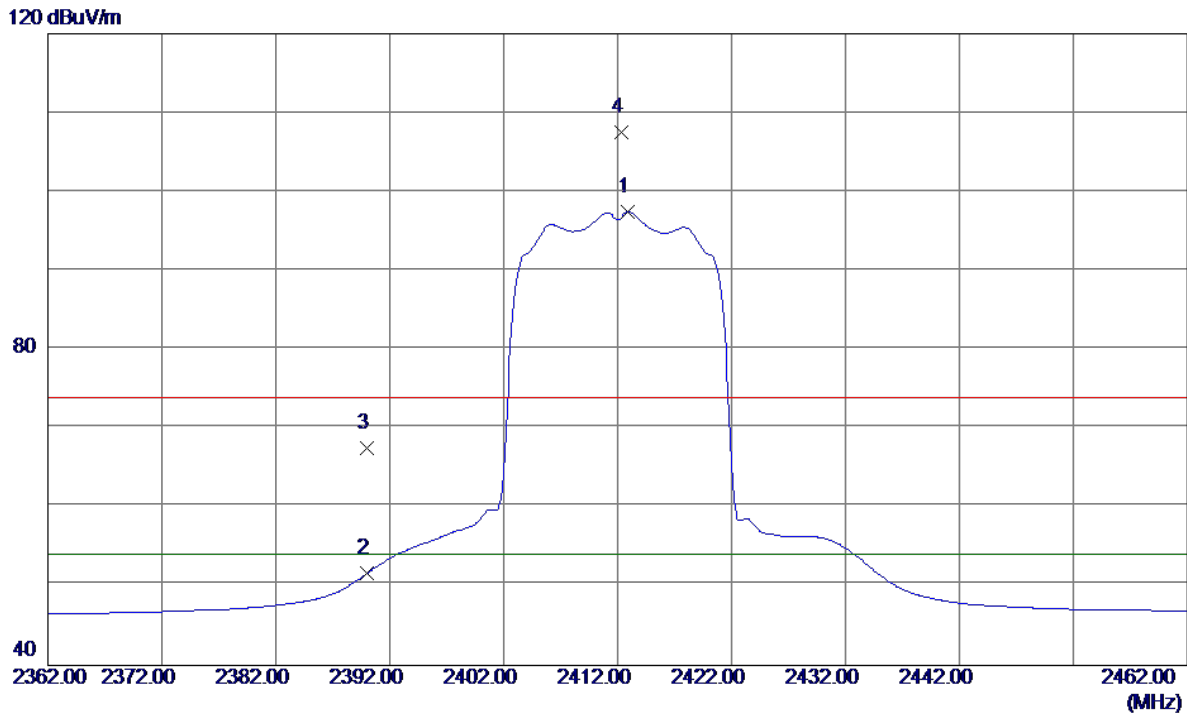
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9400	42.26	5.87	48.13	74.00	-25.87	Peak	
2	4823.9400	31.70	5.87	37.57	54.00	-16.43	AVG	

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

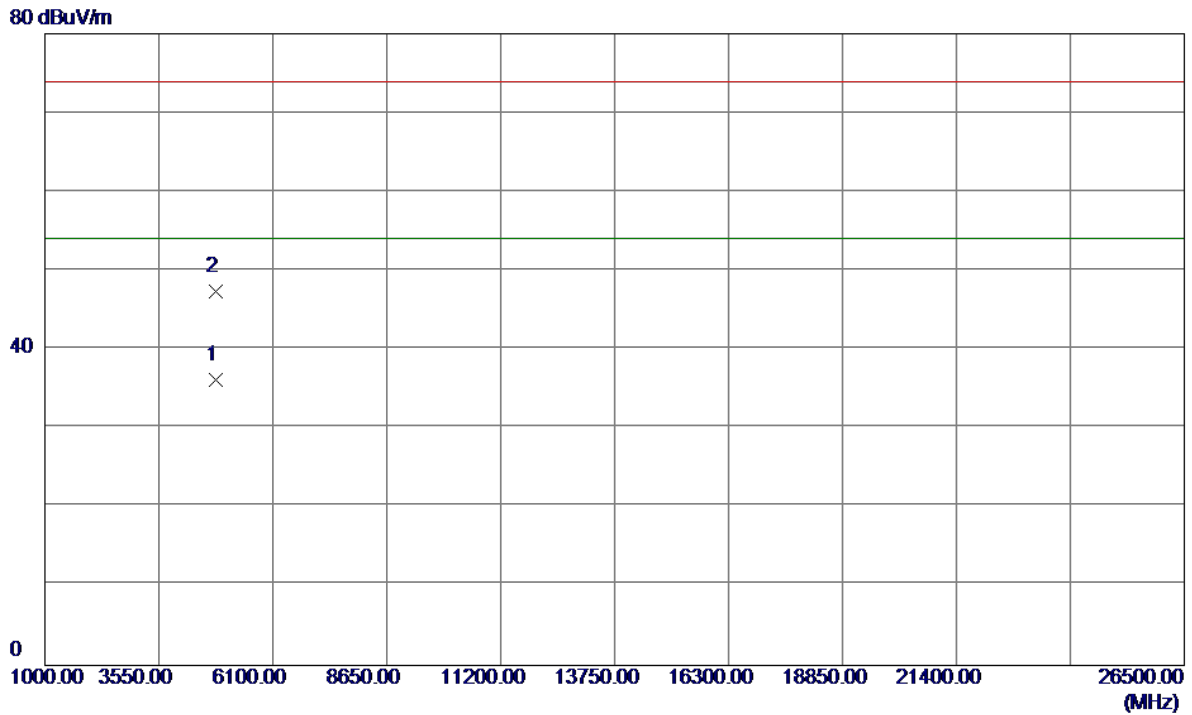
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2412.9000	64.70	32.71	97.41	54.00	43.41	AVG	NO LIMIT
2	2390.0000	18.95	32.68	51.63	54.00	-2.37	AVG	
3	2390.0000	34.86	32.68	67.54	74.00	-6.46	Peak	
4	2412.3000	74.81	32.71	107.52	74.00	33.52	Peak	NO LIMIT

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

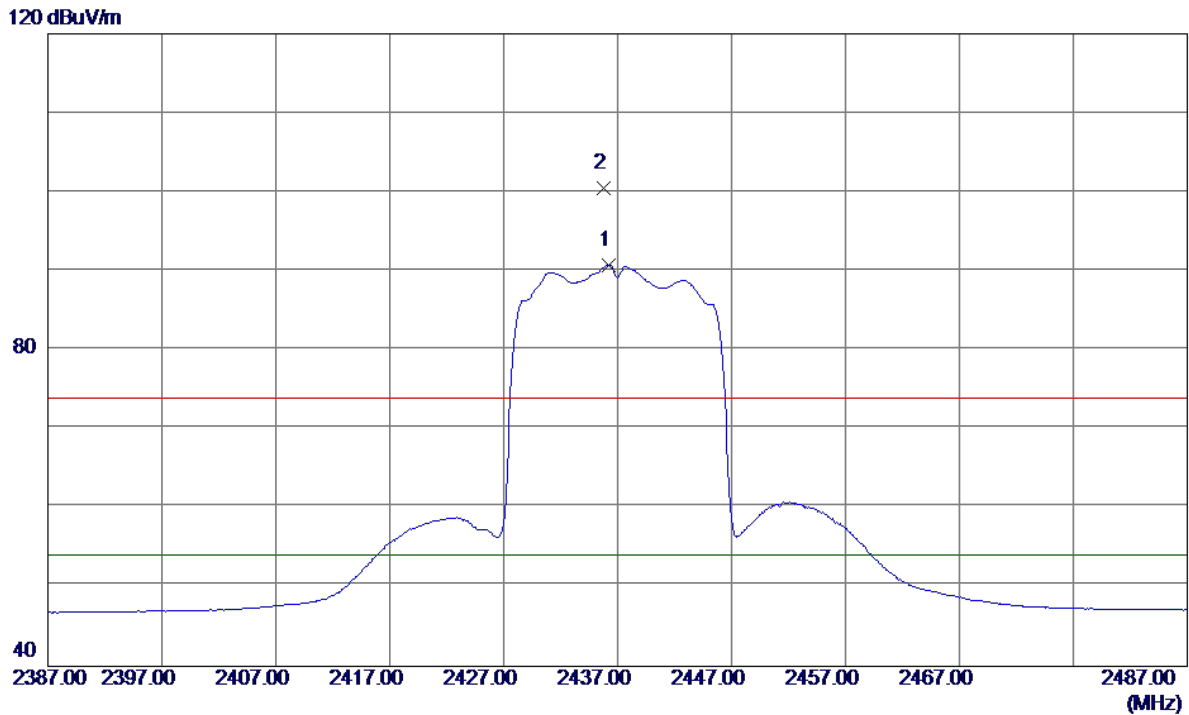
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.2270	30.36	5.87	36.23	54.00	-17.77	AVG	
2	4823.4720	41.42	5.87	47.29	74.00	-26.71	Peak	

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

**Vertical**

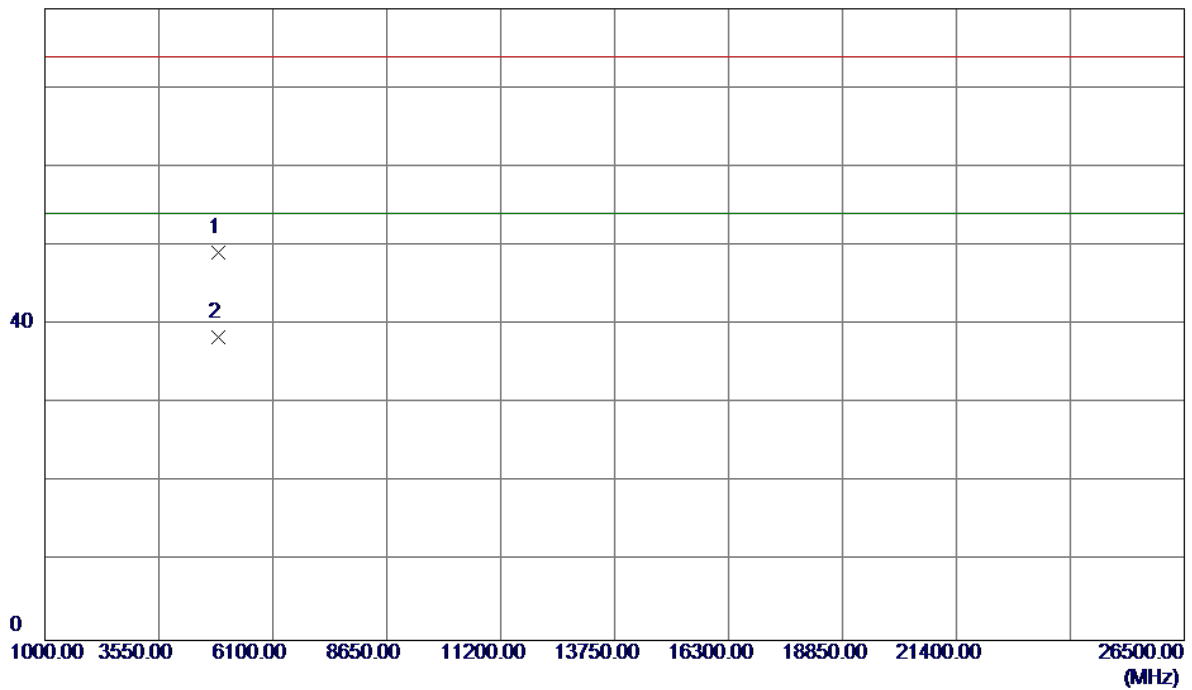


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.2000	58.05	32.74	90.79	54.00	36.79	AVG	NO LIMIT
2	2435.8000	67.81	32.74	100.55	74.00	26.55	Peak	NO LIMIT

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

**Vertical**

80 dBuV/m

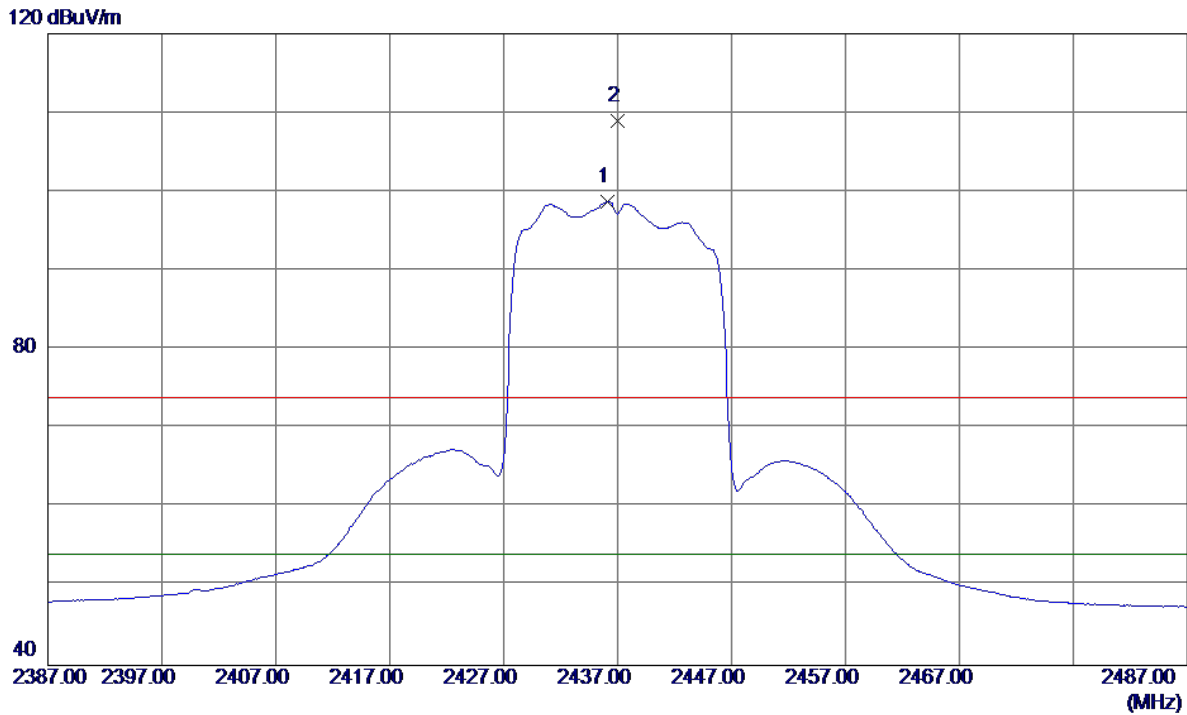


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6720	43.07	6.01	49.08	74.00	-24.92	Peak	
2	4873.2270	32.44	6.00	38.44	54.00	-15.56	AVG	



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

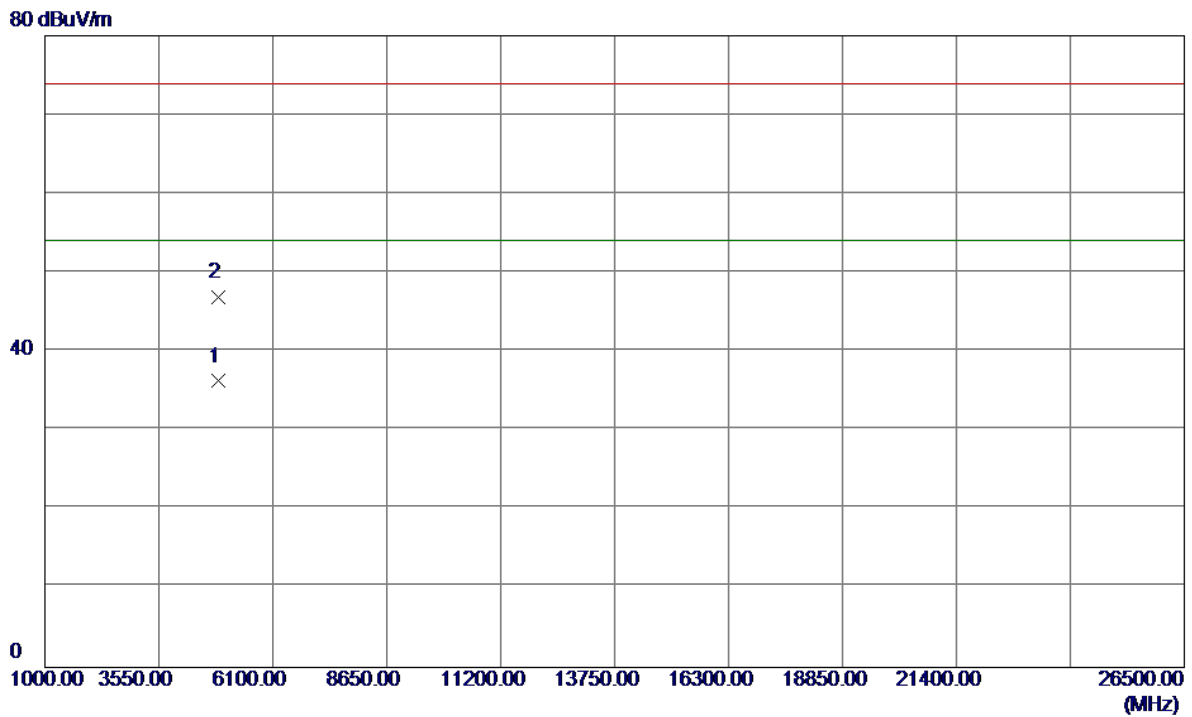
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	65.95	32.74	98.69	54.00	44.69	AVG	NO LIMIT
2	2437.0000	76.24	32.74	108.98	74.00	34.98	Peak	NO LIMIT

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

### Horizontal

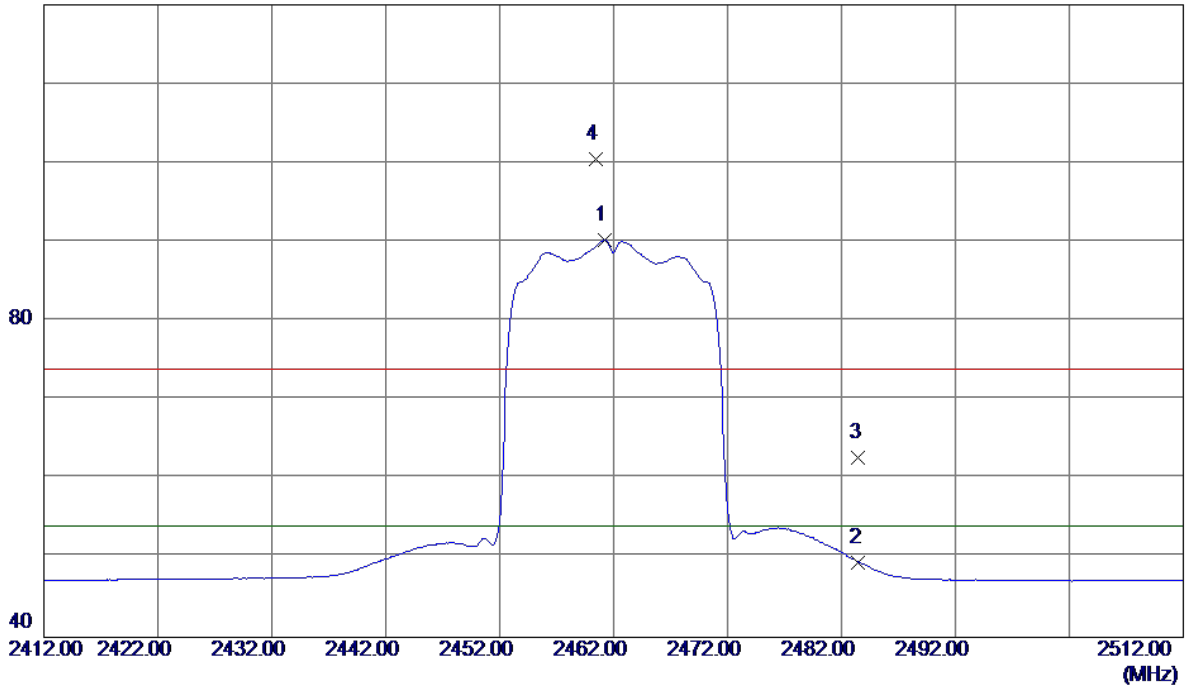


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.6800	30.24	6.00	36.24	54.00	-17.76	AVG	
2	4874.1800	40.95	6.00	46.95	74.00	-27.05	Peak	

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

**Vertical**

120 dBuV/m

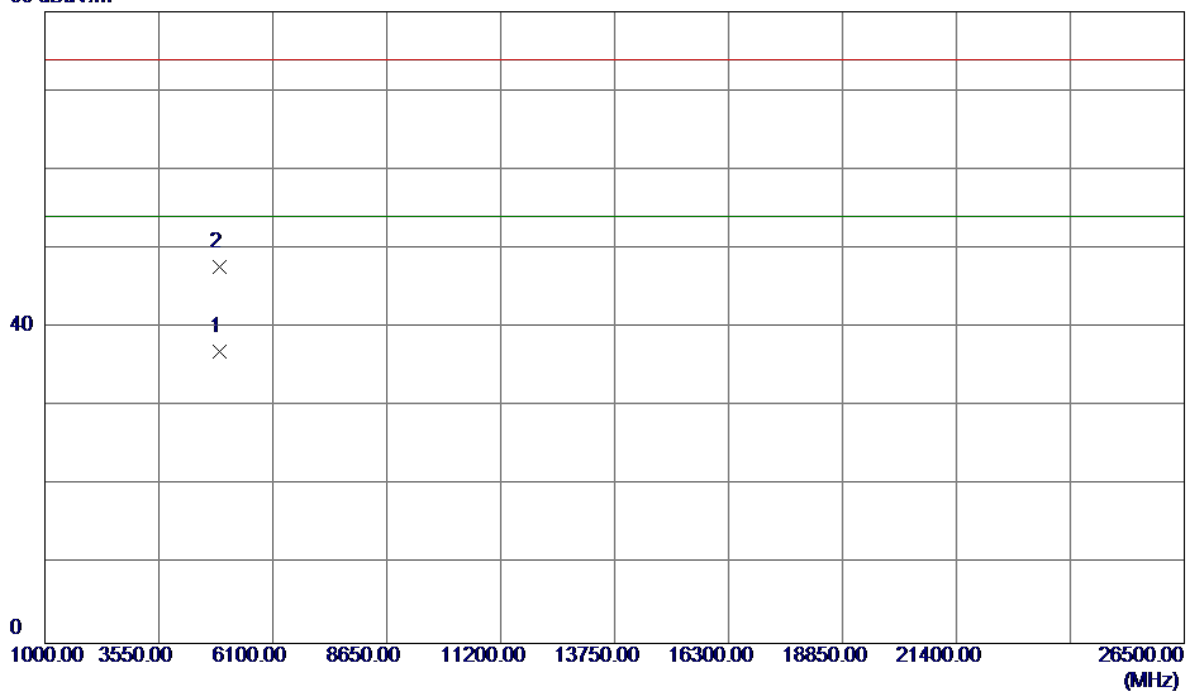


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	57.41	32.78	90.19	54.00	36.19	AVG	NO LIMIT
2	2483.5000	16.70	32.81	49.51	54.00	-4.49	AVG	
3	2483.5000	29.89	32.81	62.70	74.00	-11.30	Peak	
4	2460.4000	67.70	32.78	100.48	74.00	26.48	Peak	NO LIMIT

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

**Vertical**

80 dBuV/m

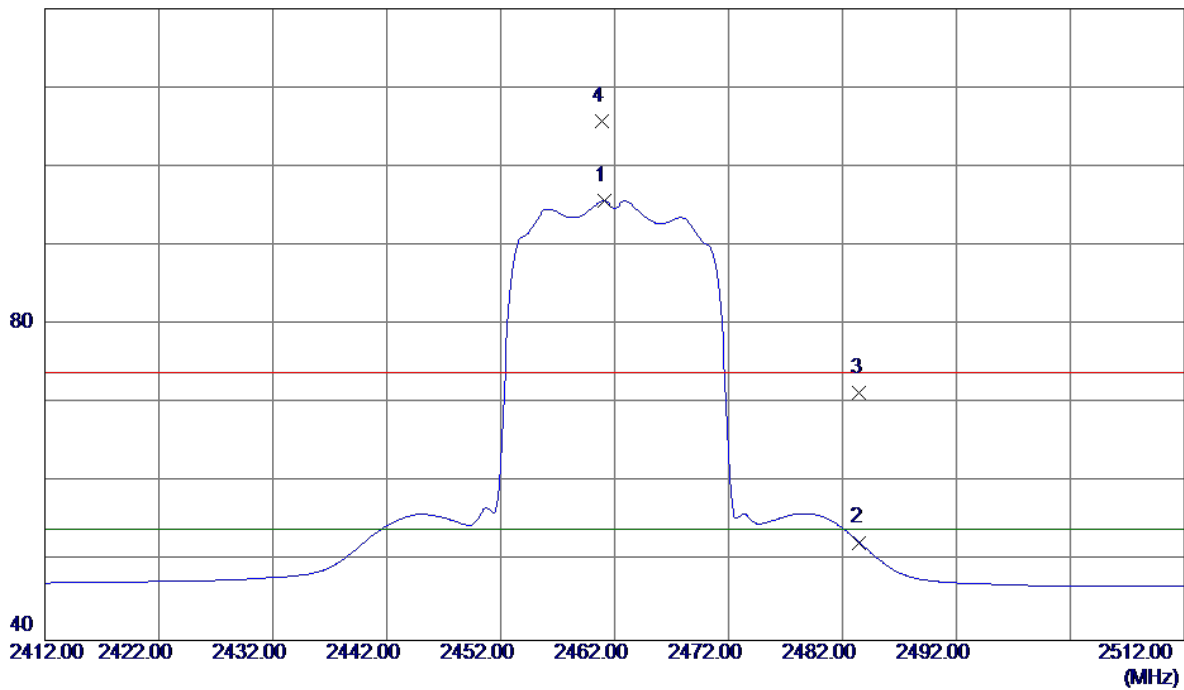


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.9300	30.83	6.14	36.97	54.00	-17.03	AVG	
2	4923.9600	41.52	6.14	47.66	74.00	-26.34	Peak	

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

### Horizontal

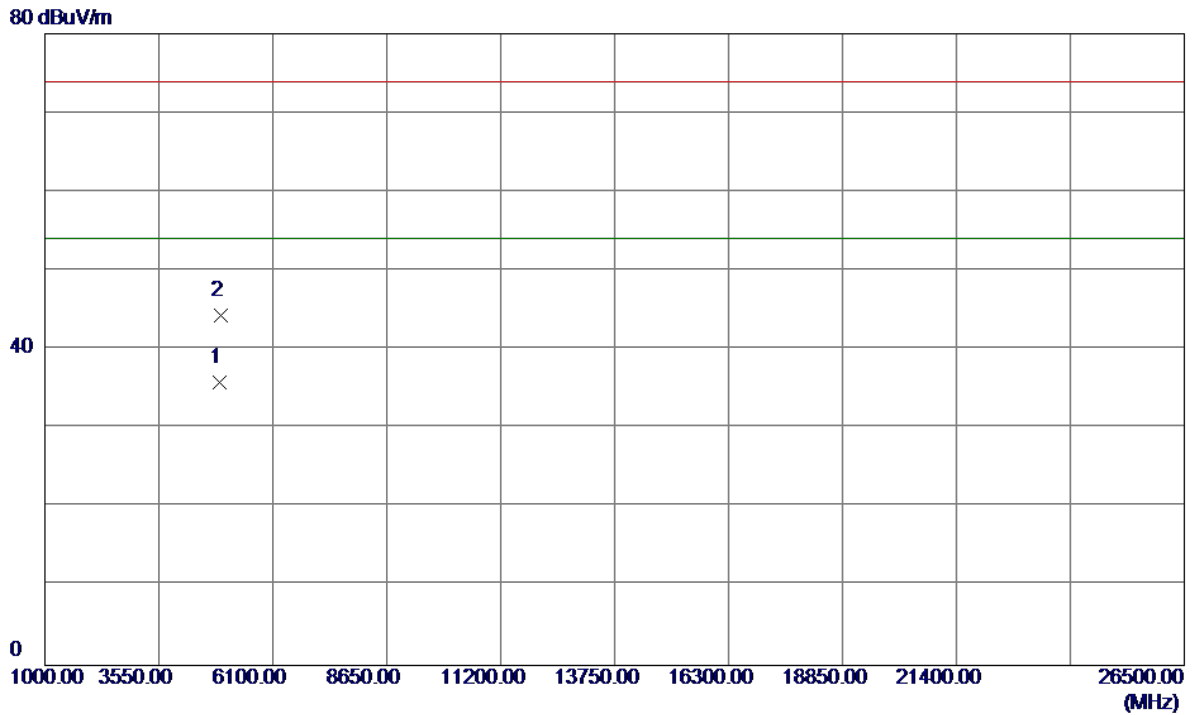
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	62.87	32.78	95.65	54.00	41.65	AVG	NO LIMIT
2	2483.5000	19.59	32.81	52.40	54.00	-1.60	AVG	
3	2483.5000	38.55	32.81	71.36	74.00	-2.64	Peak	
4	2460.9000	72.92	32.78	105.70	74.00	31.70	Peak	NO LIMIT

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

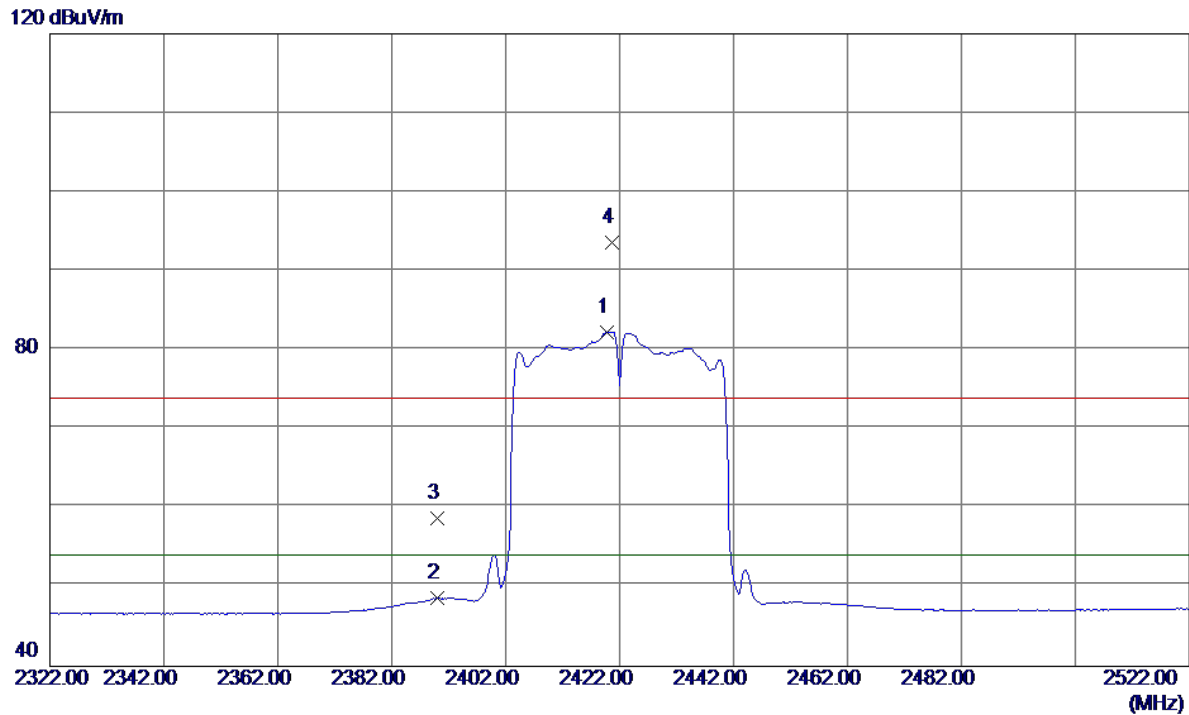
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.6790	29.67	6.14	35.81	54.00	-18.19	AVG	
2	4924.3340	38.21	6.14	44.35	74.00	-29.65	Peak	

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

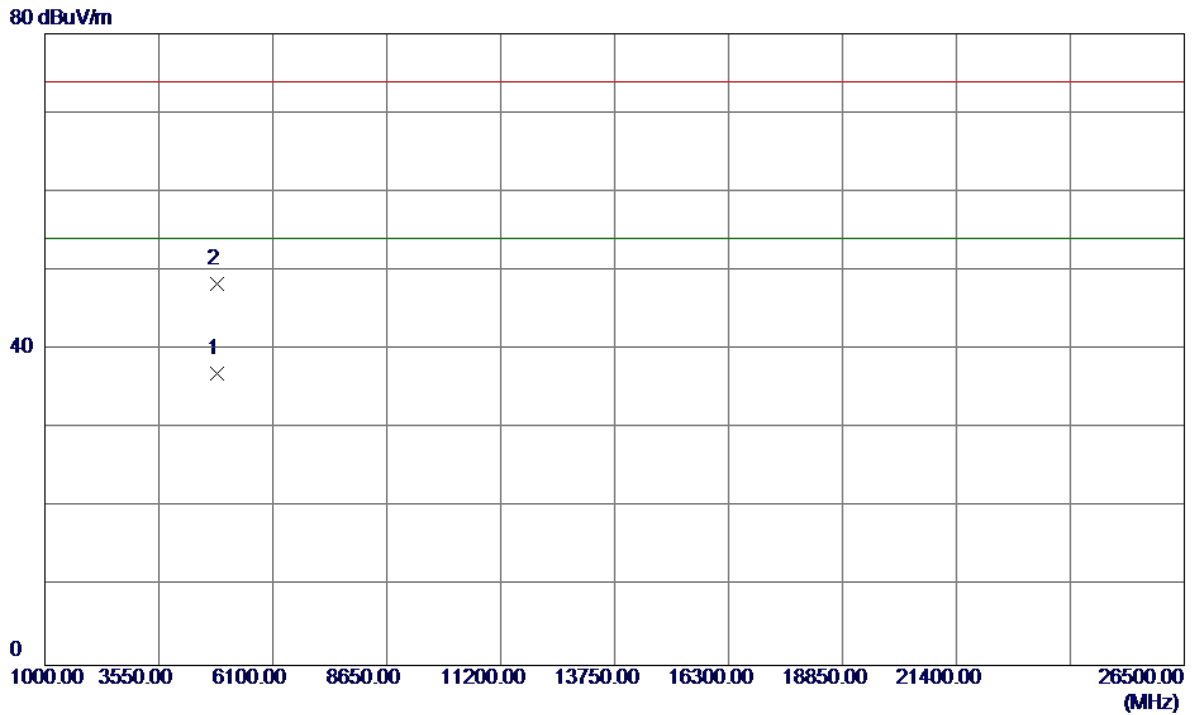
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2419.8000	49.57	32.72	82.29	54.00	28.29	AVG	NO LIMIT
2	2390.0000	15.94	32.68	48.62	54.00	-5.38	AVG	
3	2390.0000	26.03	32.68	58.71	74.00	-15.29	Peak	
4	2420.6000	60.95	32.72	93.67	74.00	19.67	Peak	NO LIMIT

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

**Vertical**



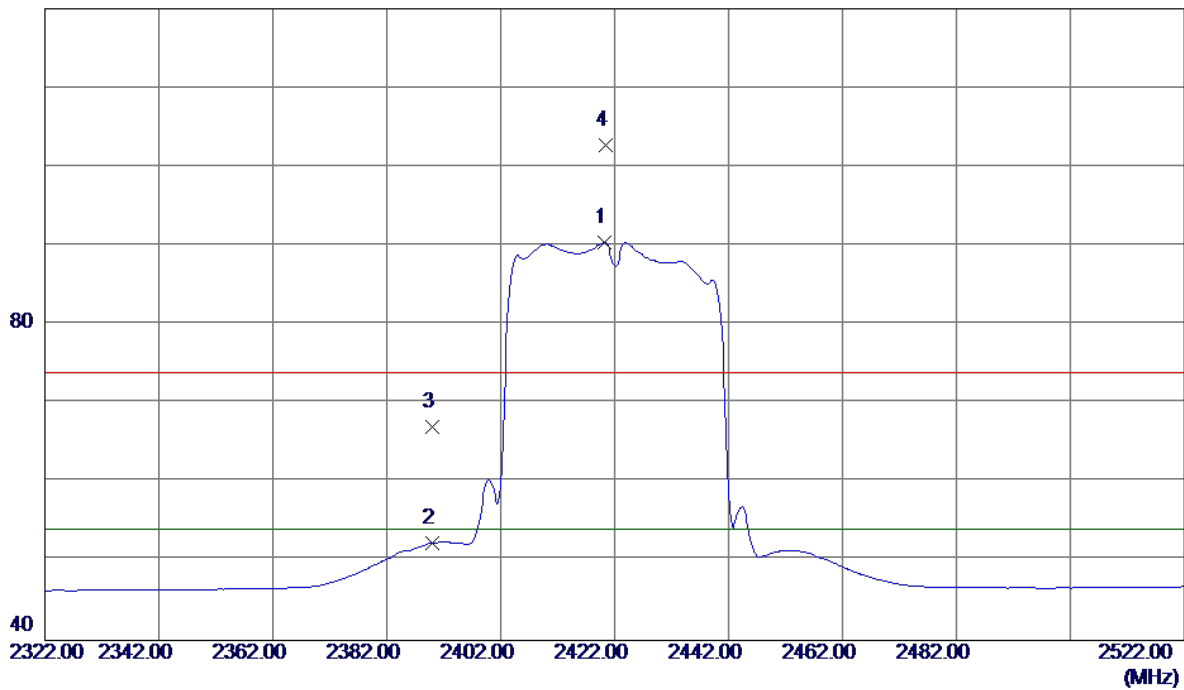
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.8820	31.09	5.92	37.01	54.00	-16.99	AVG	
2	4844.2400	42.36	5.92	48.28	74.00	-25.72	Peak	



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

### Horizontal

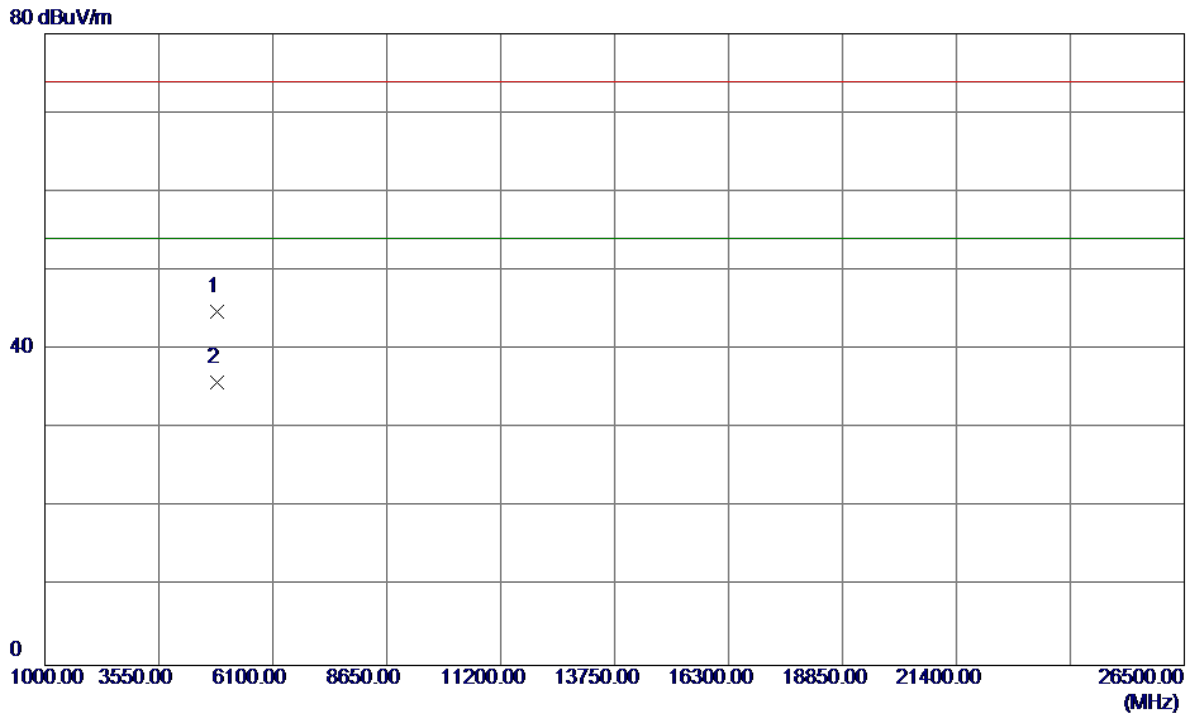
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2420.2000	57.65	32.72	90.37	54.00	36.37	AVG	NO LIMIT
2	2390.0000	19.67	32.68	52.35	54.00	-1.65	AVG	
3	2390.0000	34.30	32.68	66.98	74.00	-7.02	Peak	
4	2420.4000	70.06	32.72	102.78	74.00	28.78	Peak	NO LIMIT

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

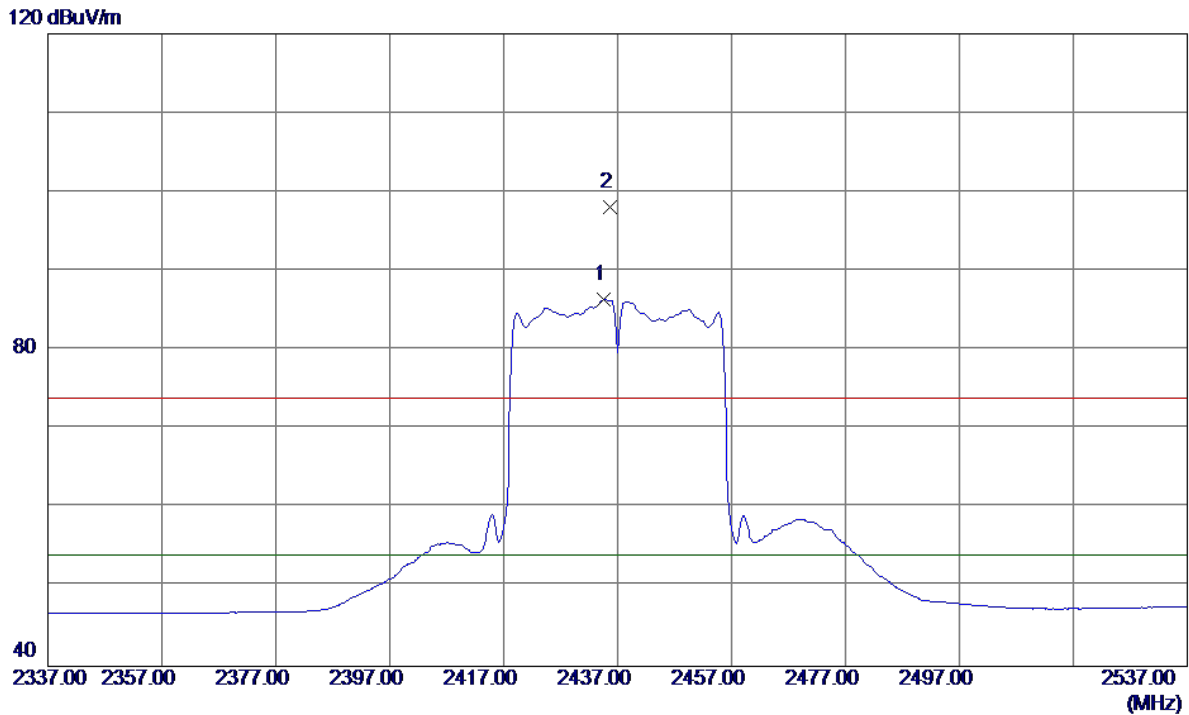
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.9400	38.81	5.92	44.73	74.00	-29.27	Peak	
2	4843.9400	29.87	5.92	35.79	54.00	-18.21	AVG	

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

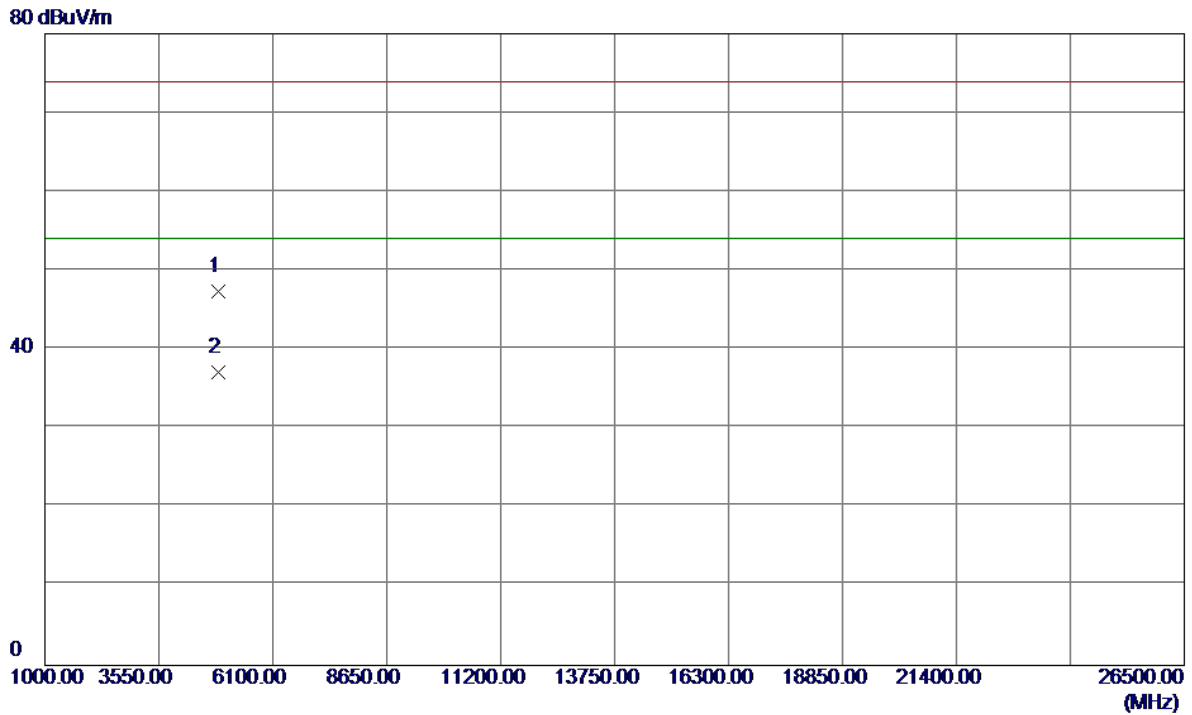
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2434.6000	53.63	32.74	86.37	54.00	32.37	AVG	NO LIMIT
2	2435.6000	65.36	32.74	98.10	74.00	24.10	Peak	NO LIMIT

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

**Vertical**

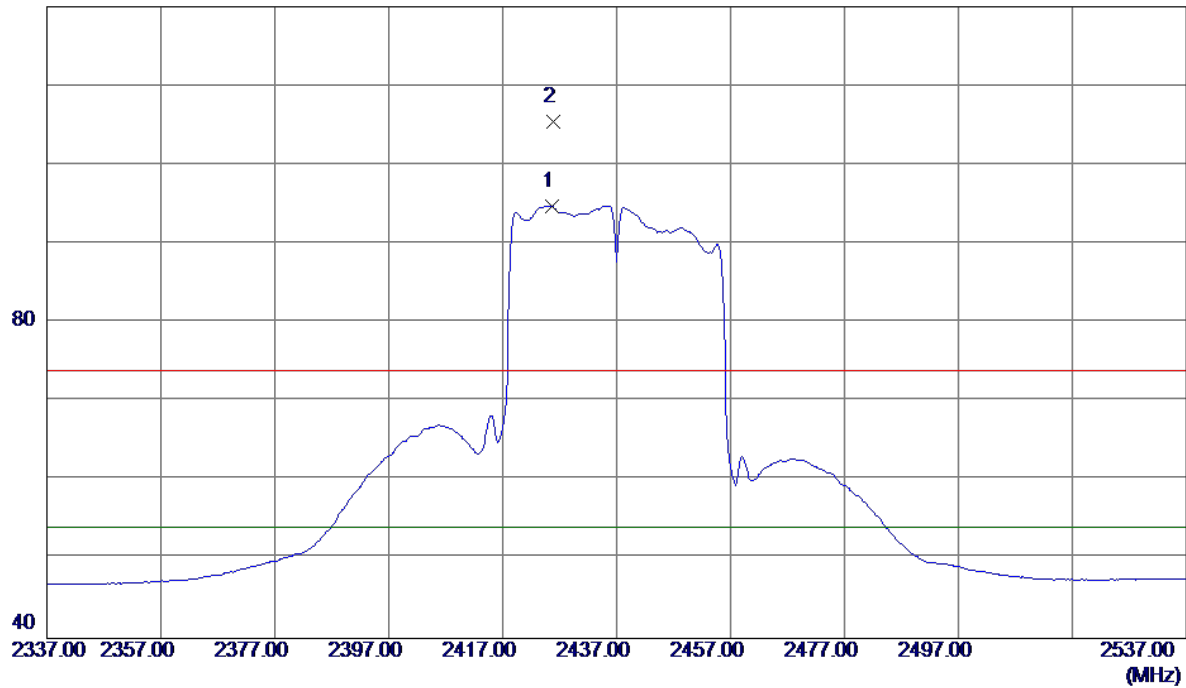


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9500	41.40	6.00	47.40	74.00	-26.60	Peak	
2	4873.9500	31.07	6.00	37.07	54.00	-16.93	AVG	

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

### Horizontal

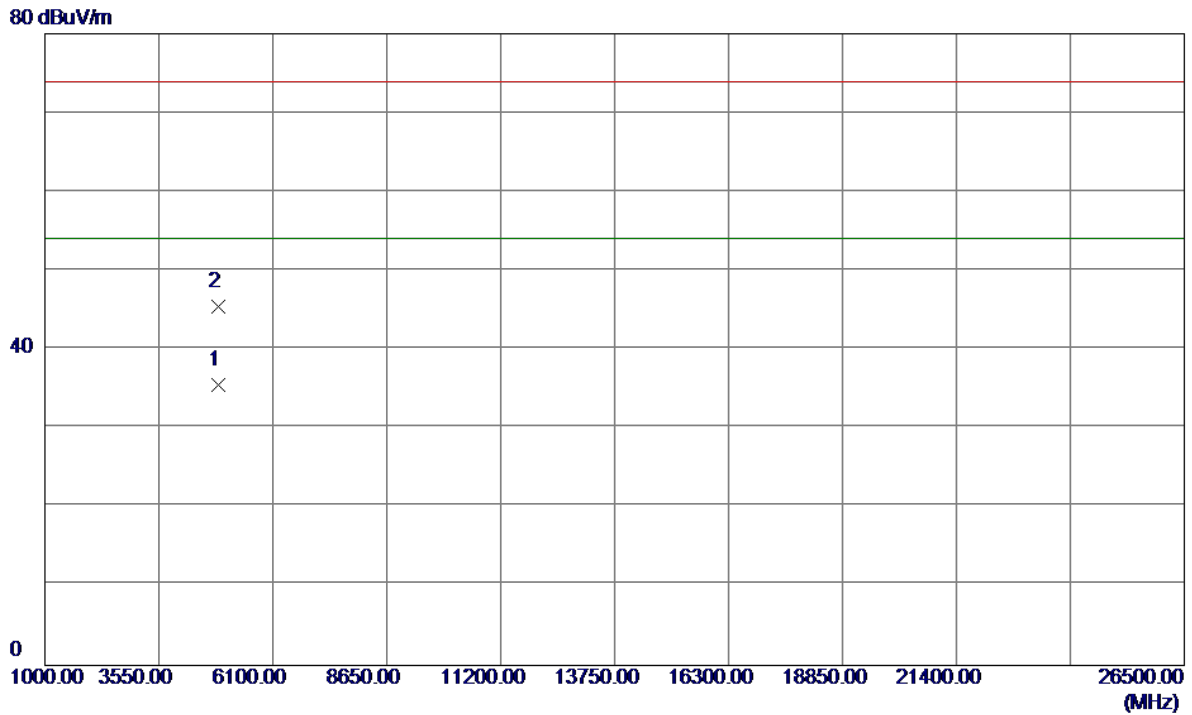
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2425.6000	62.05	32.73	94.78	54.00	40.78	AVG	NO LIMIT
2	2425.8000	72.75	32.73	105.48	74.00	31.48	Peak	NO LIMIT

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

### Horizontal

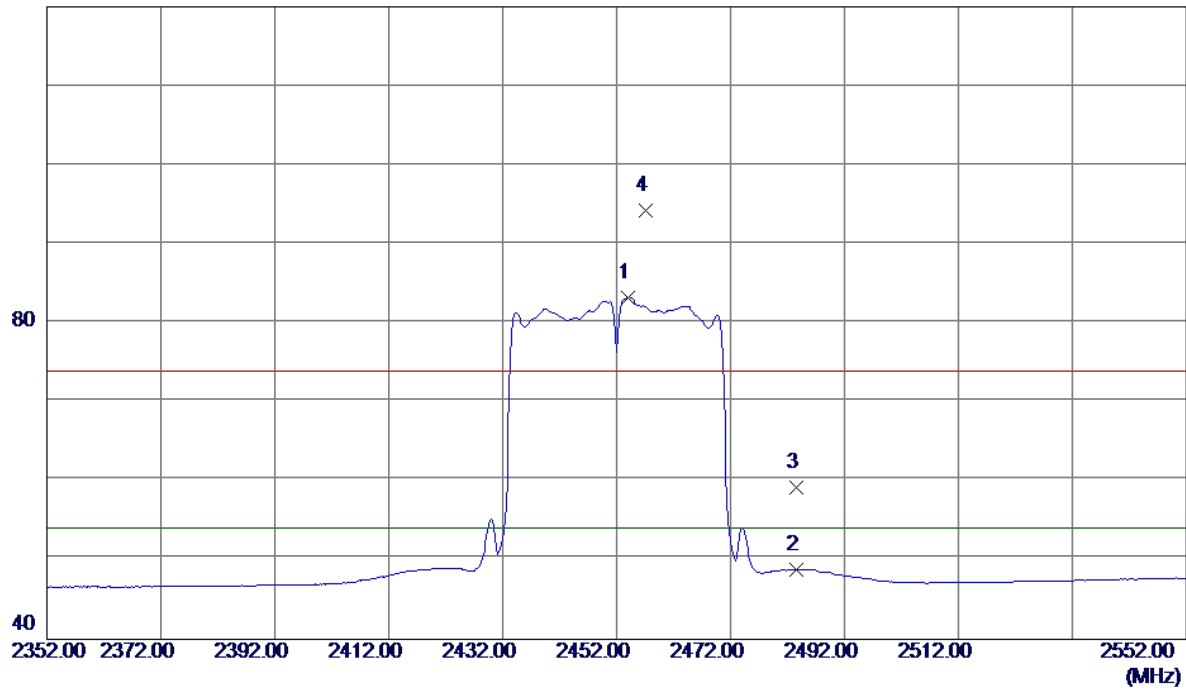


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6710	29.48	6.01	35.49	54.00	-18.51	AVG	
2	4874.6600	39.40	6.01	45.41	74.00	-28.59	Peak	

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

**Vertical**

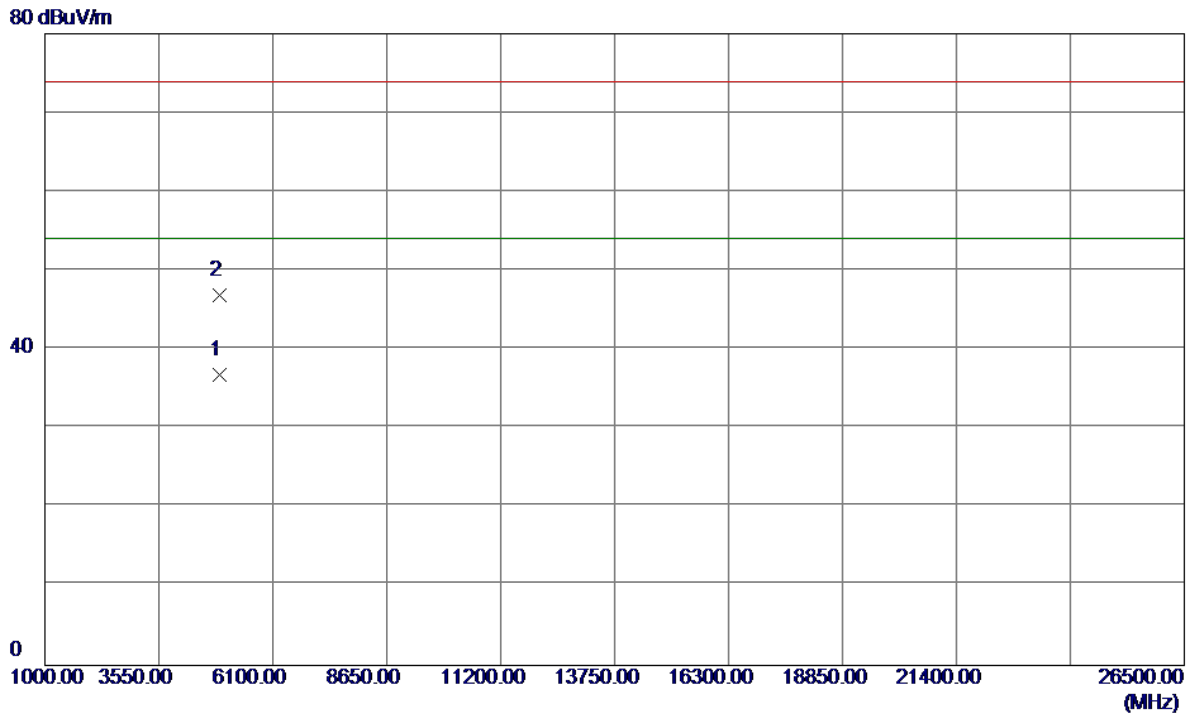
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2454.0000	50.41	32.77	83.18	54.00	29.18	AVG	NO LIMIT
2	2483.5000	16.03	32.81	48.84	54.00	-5.16	AVG	
3	2483.5000	26.33	32.81	59.14	74.00	-14.86	Peak	
4	2457.2000	61.40	32.77	94.17	74.00	20.17	Peak	NO LIMIT

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

**Vertical**



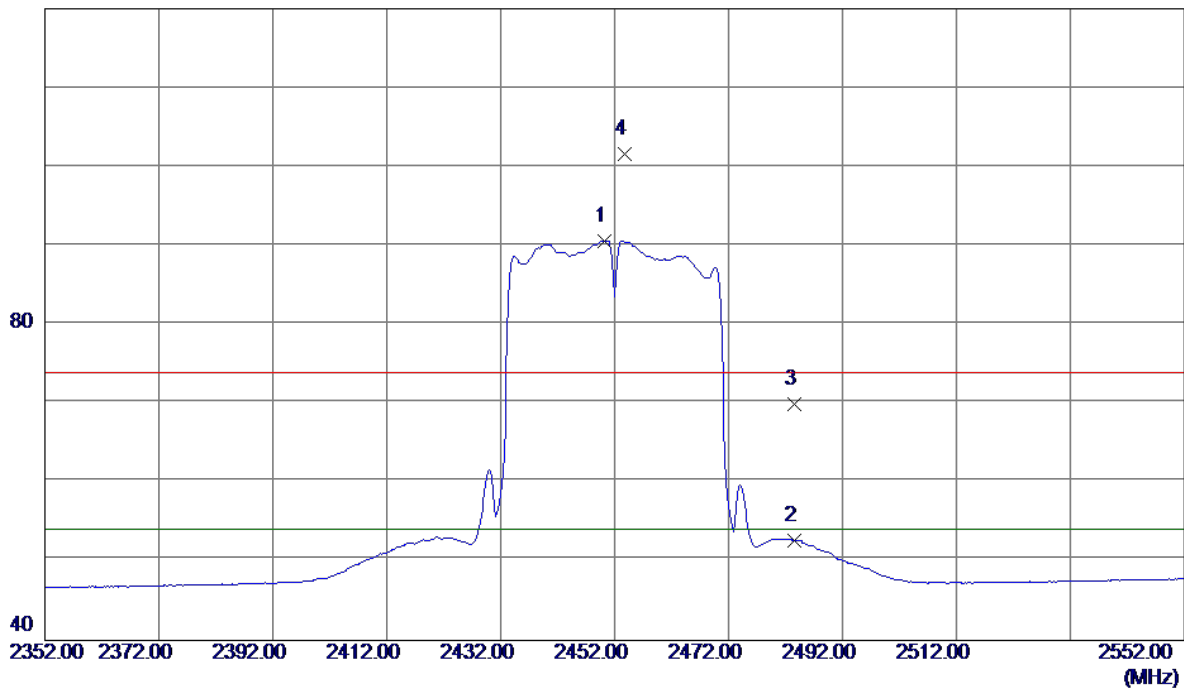
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4903.6620	30.68	6.08	36.76	54.00	-17.24	AVG	
2	4904.3470	40.72	6.08	46.80	74.00	-27.20	Peak	



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

### Horizontal

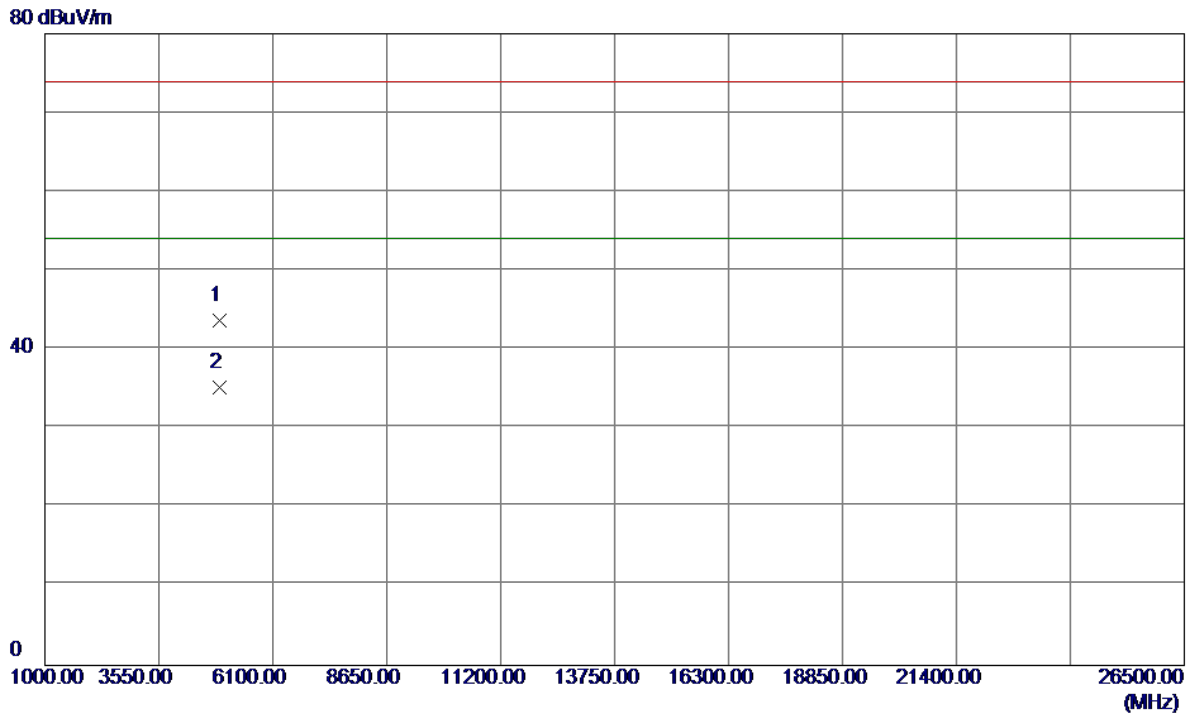
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2450.2000	57.87	32.76	90.63	54.00	36.63	AVG	NO LIMIT
2	2483.5000	19.81	32.81	52.62	54.00	-1.38	AVG	
3	2483.5000	37.11	32.81	69.92	74.00	-4.08	Peak	
4	2453.8000	68.90	32.77	101.67	74.00	27.67	Peak	NO LIMIT

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

### Horizontal



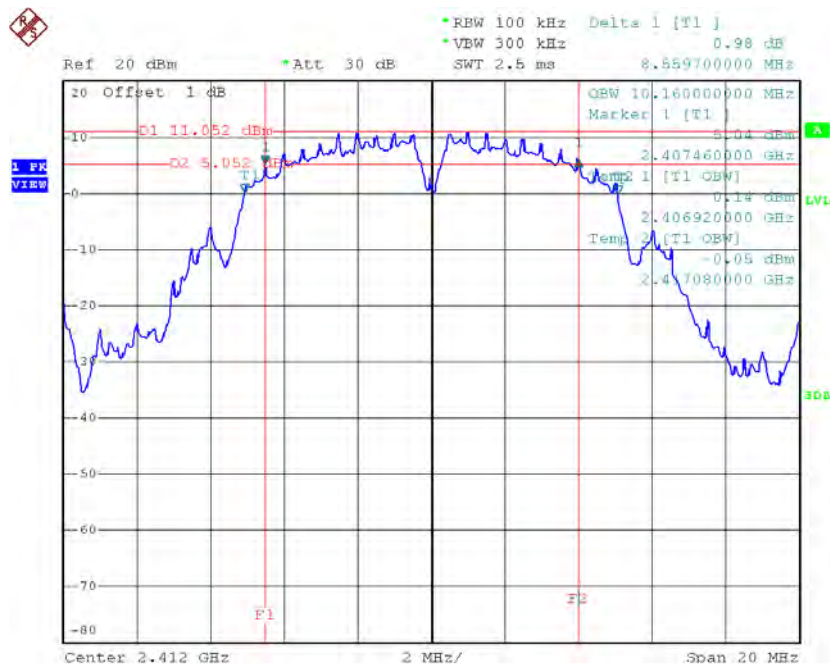
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4903.9800	37.54	6.08	43.62	74.00	-30.38	Peak	
2	4903.9800	29.19	6.08	35.27	54.00	-18.73	AVG	

## ATTACHMENT E - BANDWIDTH

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

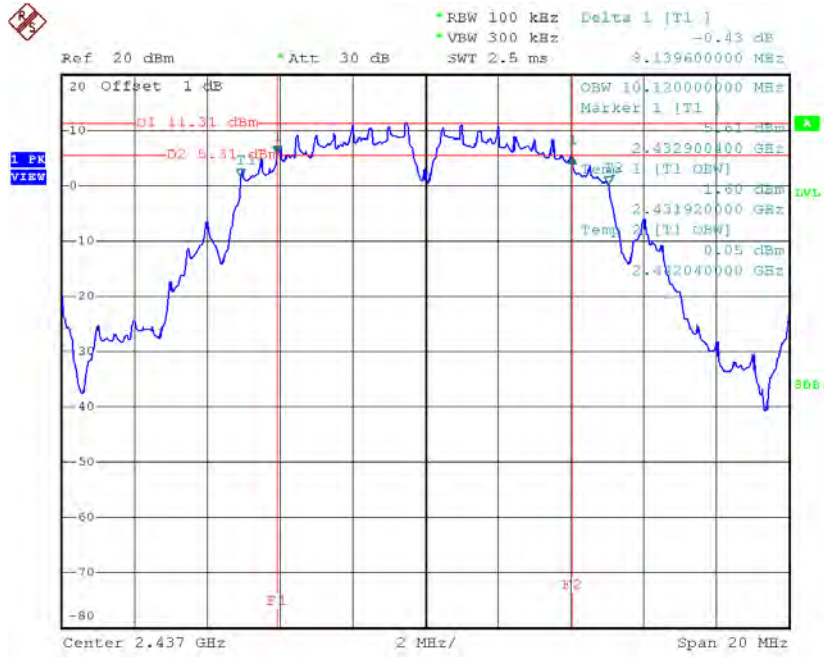
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.56	10.16	500	Complies
2437	8.14	10.12	500	Complies
2462	7.68	10.08	500	Complies

**TX CH01**



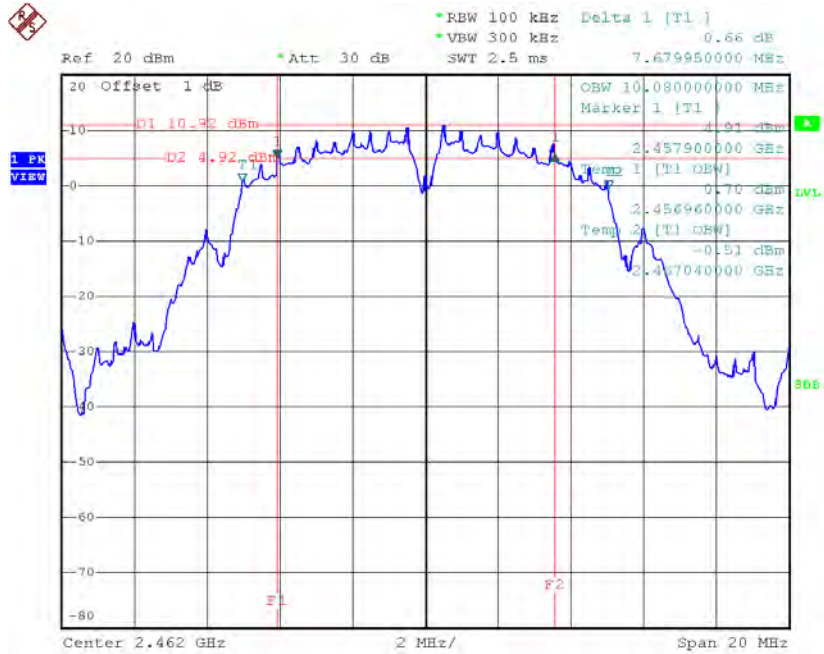
Date: 13.OCT.2015 14:05:24

### TX CH06



Date: 13.OCT.2015 14:06:44

### TX CH11

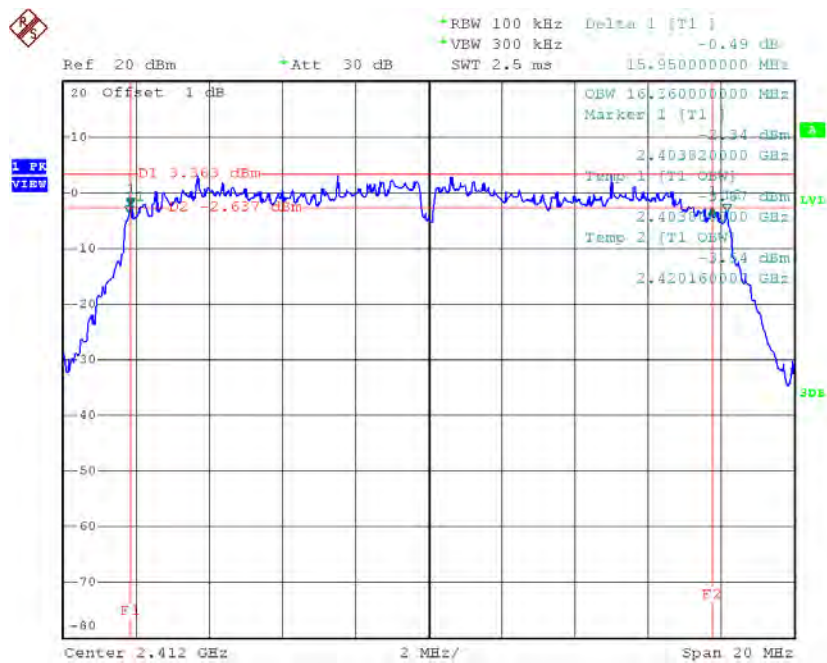


Date: 13.OCT.2015 14:08:01

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

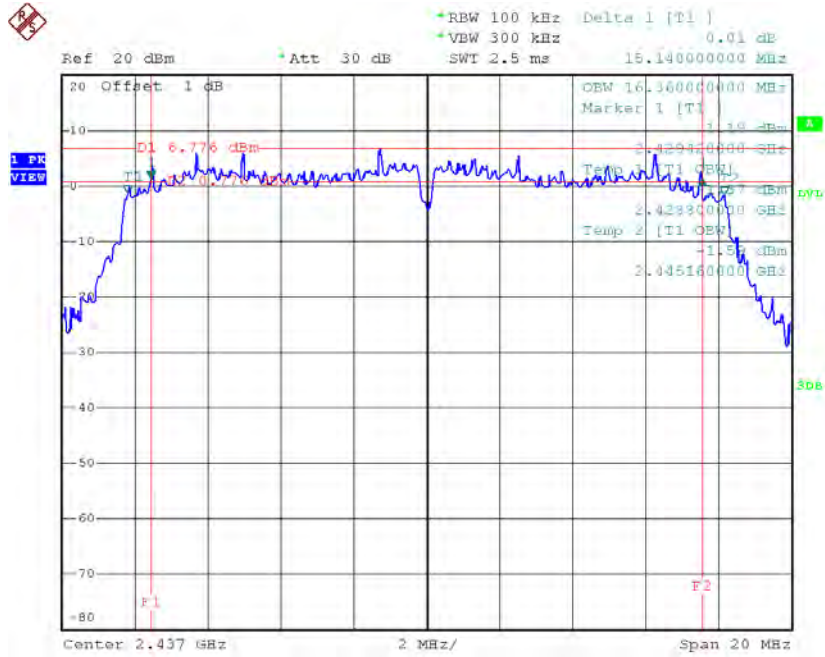
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.95	16.36	500	Complies
2437	15.14	16.36	500	Complies
2462	15.75	16.36	500	Complies

**TX CH01**



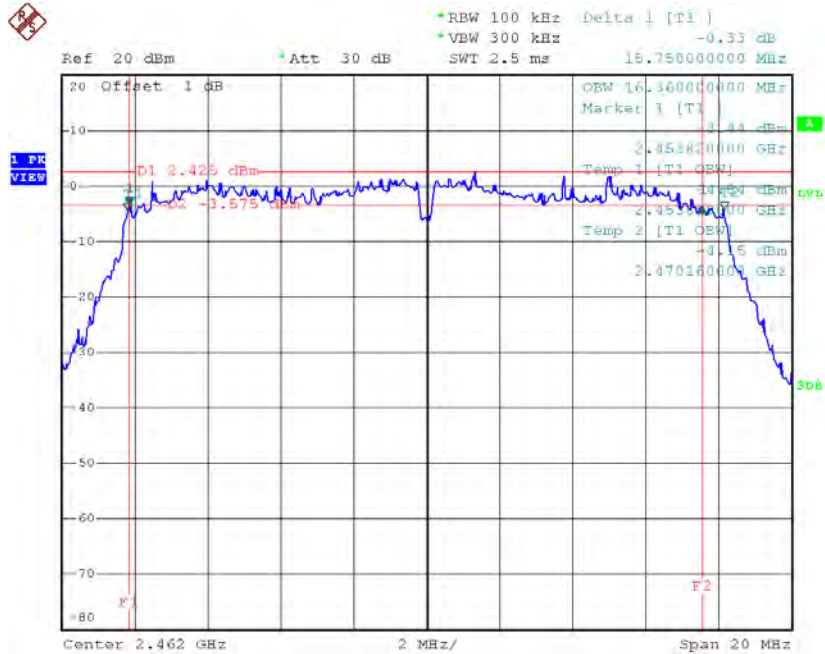
Date: 13.OCT.2015 14:09:14

**TX CH06**



Date: 13.OCT.2015 14:10:29

**TX CH11**

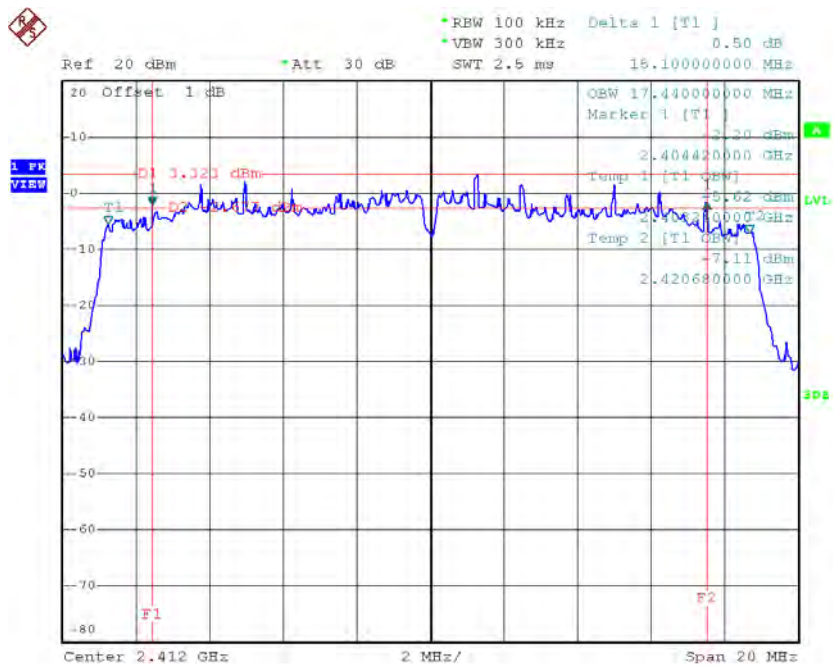


Date: 13.OCT.2015 14:11:36

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.10	17.44	500	Complies
2437	14.88	17.44	500	Complies
2462	15.10	17.44	500	Complies

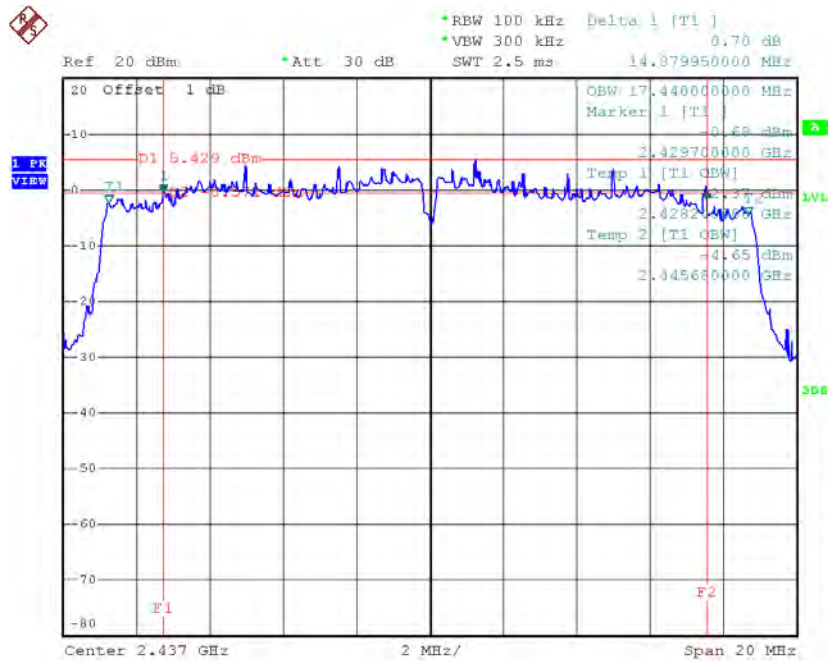
**TX CH01**



Date: 13.OCT.2015 14:24:36

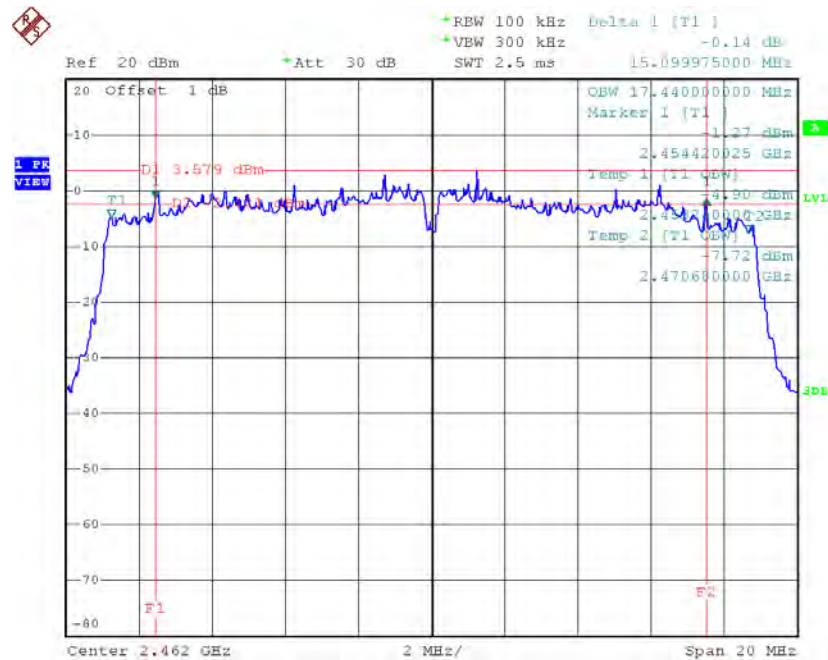


### TX CH06



Date: 13.OCT.2015 14:26:05

### TX CH11

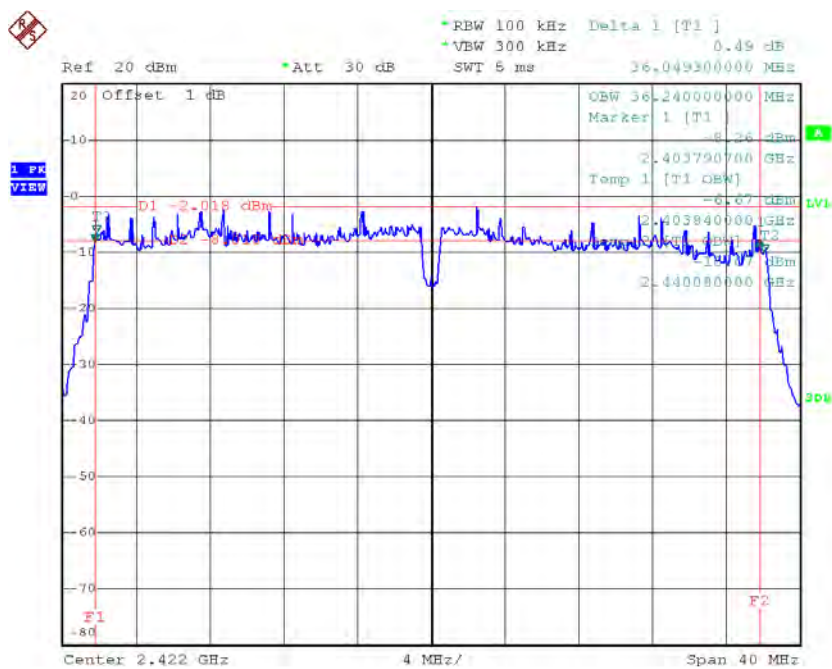


Date: 13.OCT.2015 14:27:29

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.05	36.24	500	Complies
2437	35.83	36.24	500	Complies
2452	35.92	36.24	500	Complies

**TX CH03**



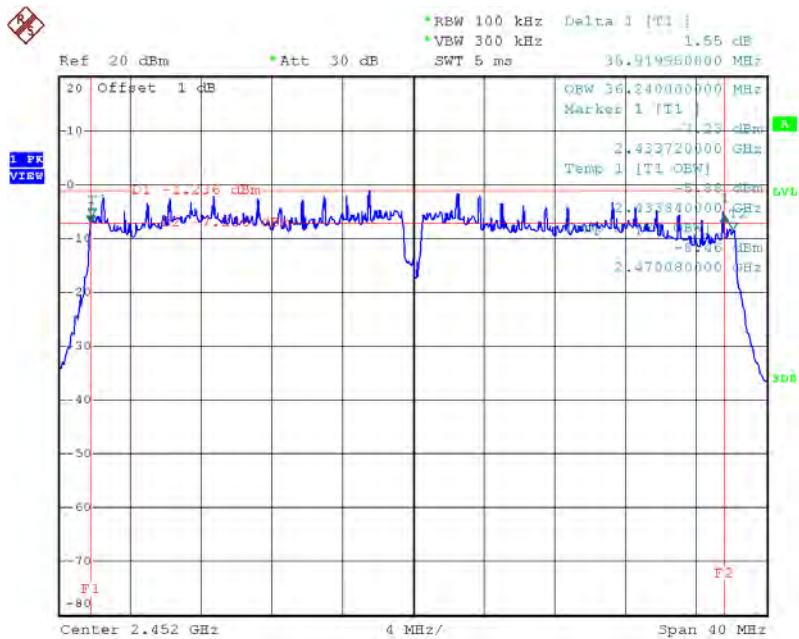
Date: 13.OCT.2015 14:33:00

### TX CH06



Date: 13.OCT.2015 14:34:53

### TX CH09



Date: 13.OCT.2015 14:35:51

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

<b>Test Mode :TX B Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.79	0.19	30.00	1.00	Complies
2437	22.59	0.18	30.00	1.00	Complies
2462	21.61	0.14	30.00	1.00	Complies

<b>Test Mode :TX G Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.03	0.16	30.00	1.00	Complies
2437	24.43	0.28	30.00	1.00	Complies
2462	21.15	0.13	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	20.86	0.12	30.00	1.00	Complies
2437	23.22	0.21	30.00	1.00	Complies
2462	20.74	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	20.91	0.12	30.00	1.00	Complies
2437	23.28	0.21	30.00	1.00	Complies
2462	20.68	0.12	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	23.90	0.25	30.00	1.00	Complies
2437	26.26	0.42	30.00	1.00	Complies
2462	23.72	0.24	30.00	1.00	Complies

<b>Test Mode :TX N40 Mode_CH03/06/09_ANT 1</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.04	0.08	30.00	1.00	Complies
2437	23.11	0.20	30.00	1.00	Complies
2452	19.51	0.09	30.00	1.00	Complies

<b>Test Mode :TX N40 Mode_CH03/06/09_ANT 2</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.11	0.08	30.00	1.00	Complies
2437	23.17	0.21	30.00	1.00	Complies
2452	19.15	0.08	30.00	1.00	Complies

<b>Test Mode :TX N40 Mode_CH03/06/09_Total</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.09	0.16	30.00	1.00	Complies
2437	26.15	0.41	30.00	1.00	Complies
2452	22.34	0.17	30.00	1.00	Complies

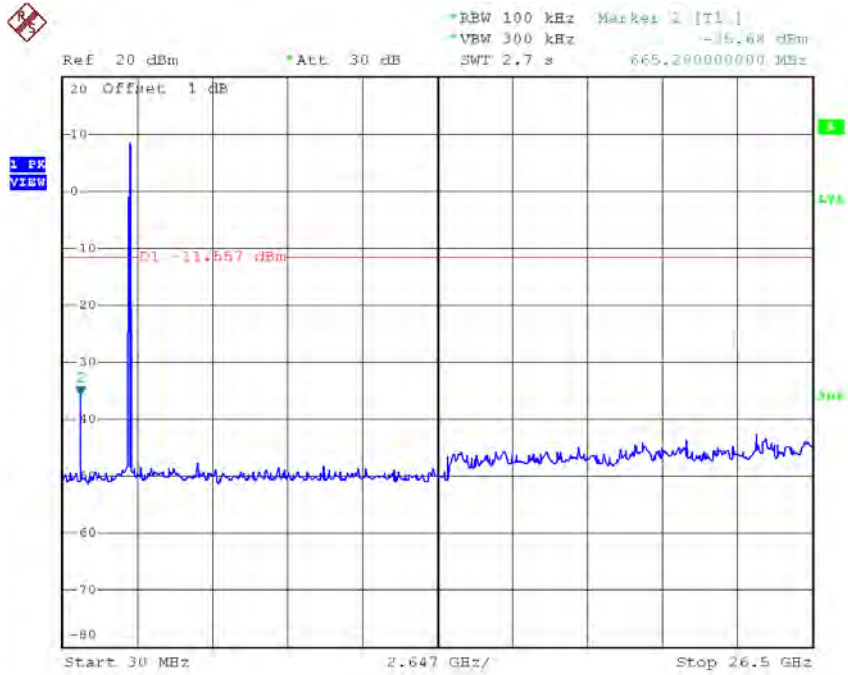
**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**



<b>Test Mode :</b>	<b>TX B Mode</b>
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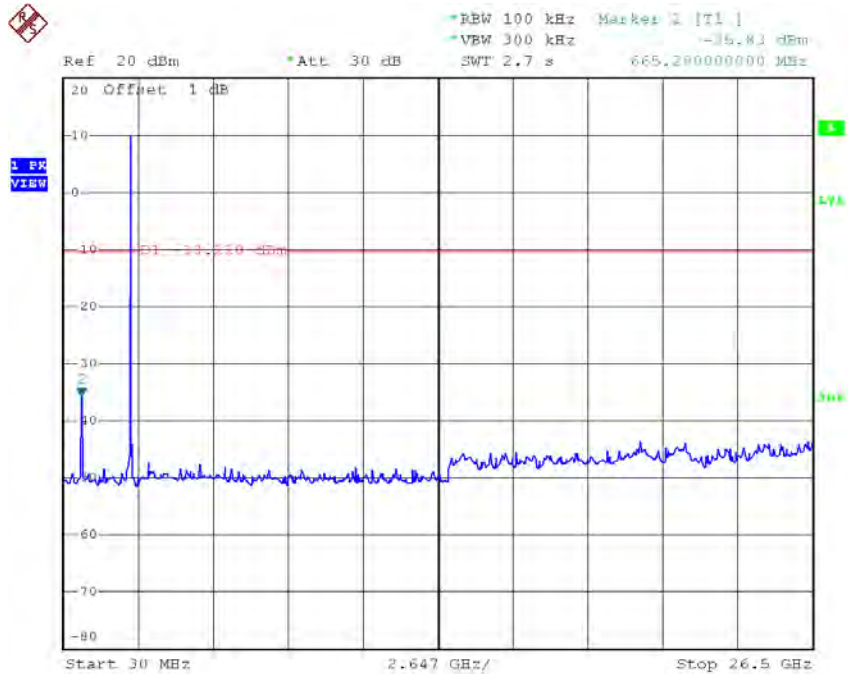


### TX B mode CH01 (10 Harmonic of the frequency)



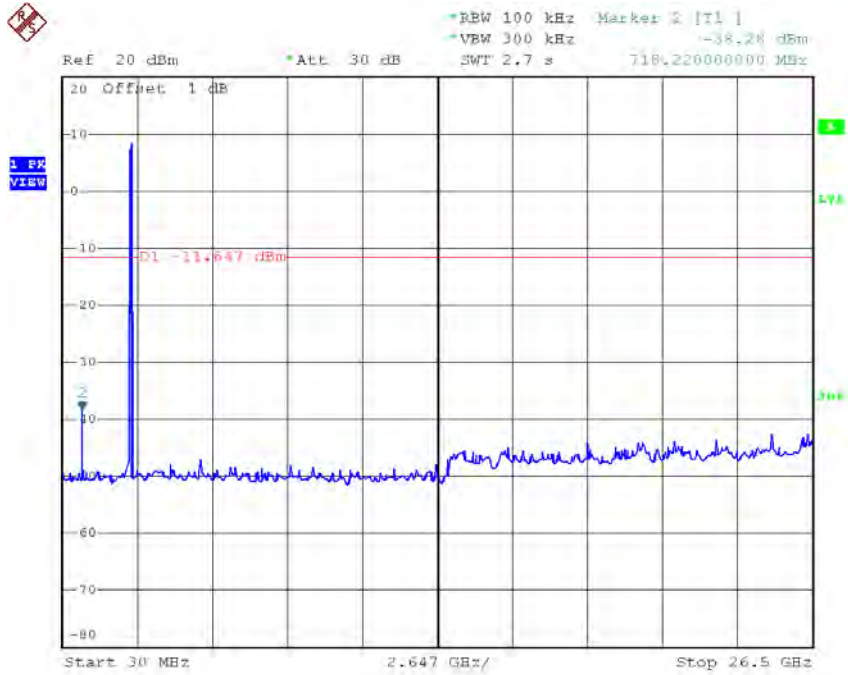
Date: 13.OCT.2015 14:05:38

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



Date: 13.OCT.2015 14:06:58

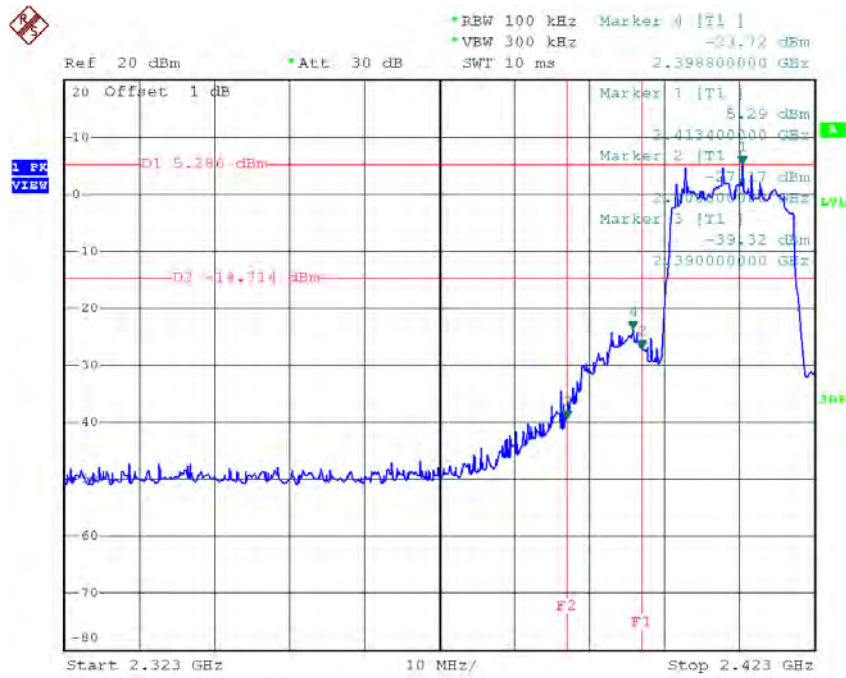
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 13.OCT.2015 14:08:15

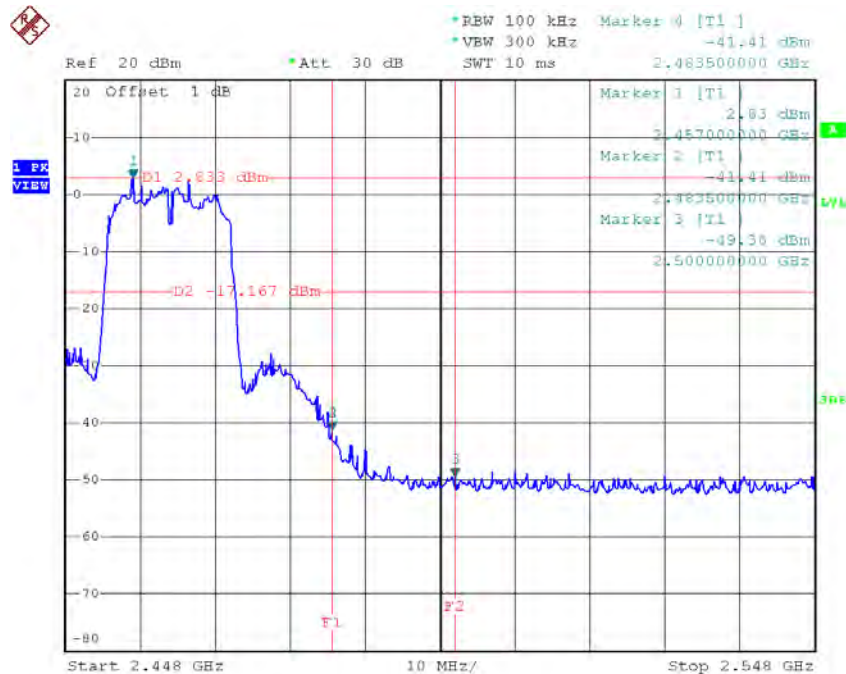
<b>Test Mode :</b>	<b>TX G Mode</b>
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### TX G mode CH01



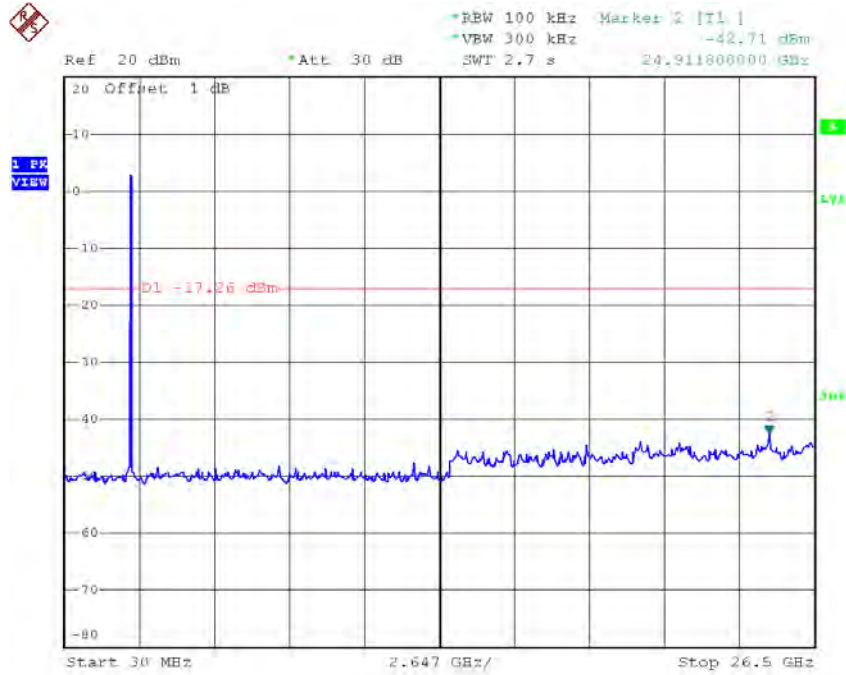
Date: 13.OCT.2015 14:09:36

### TX G mode CH11



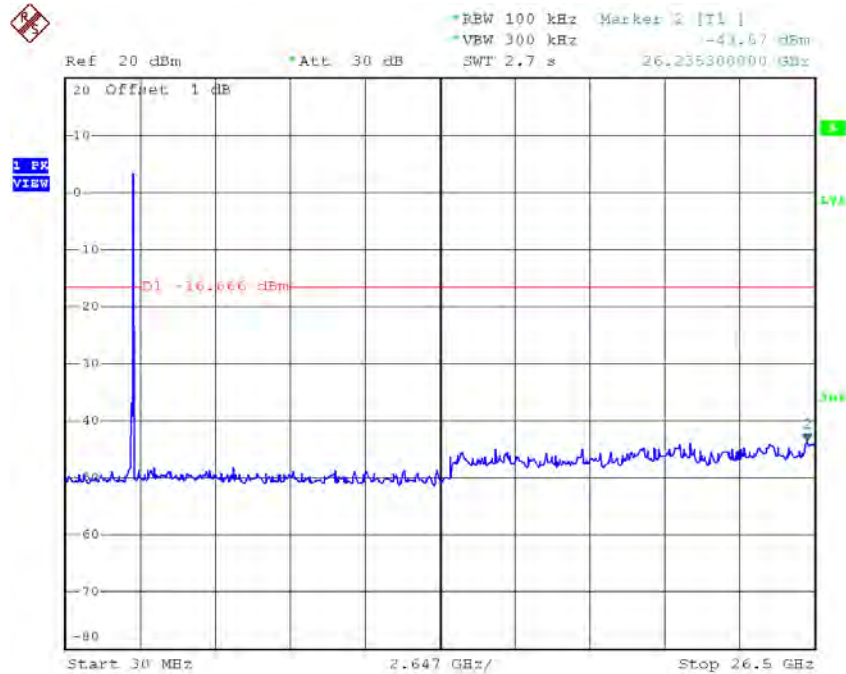
Date: 13.OCT.2015 14:11:57

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



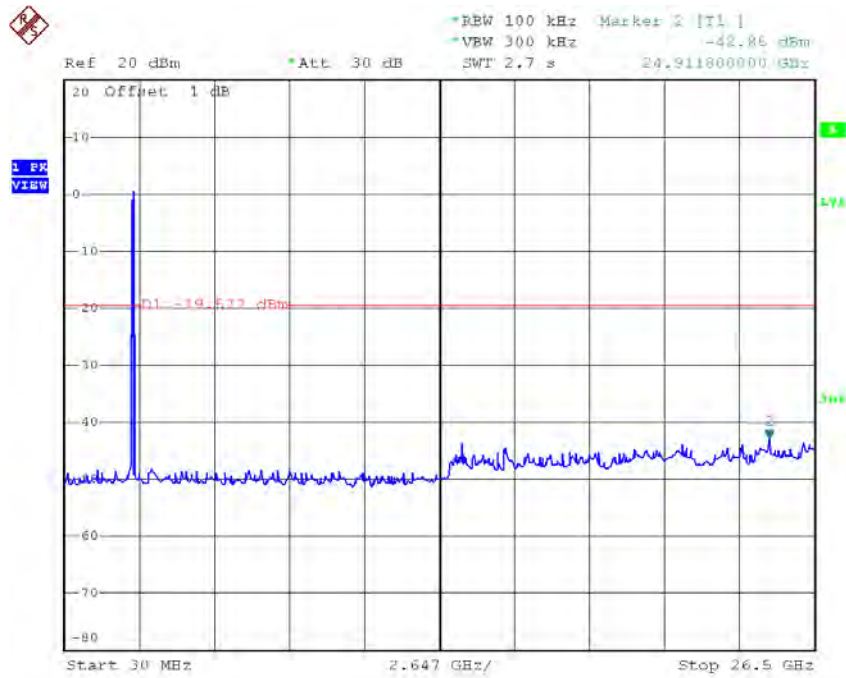
Date: 13.OCT.2015 14:09:28

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



Date: 13.OCT.2015 14:10:43

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



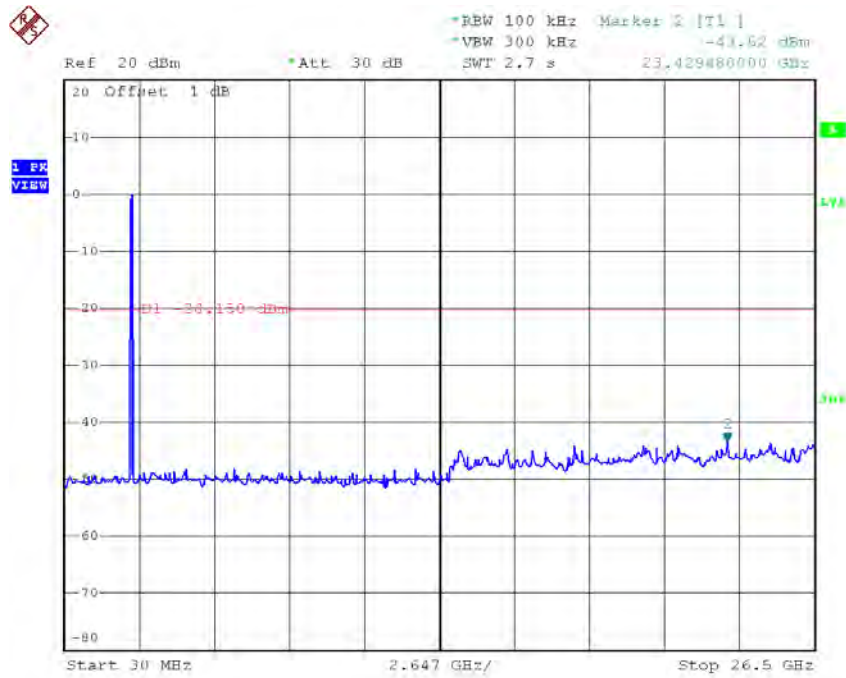
Date: 13.OCT.2015 14:11:49



Test Mode :	TX N-20M Mode_ANT 1
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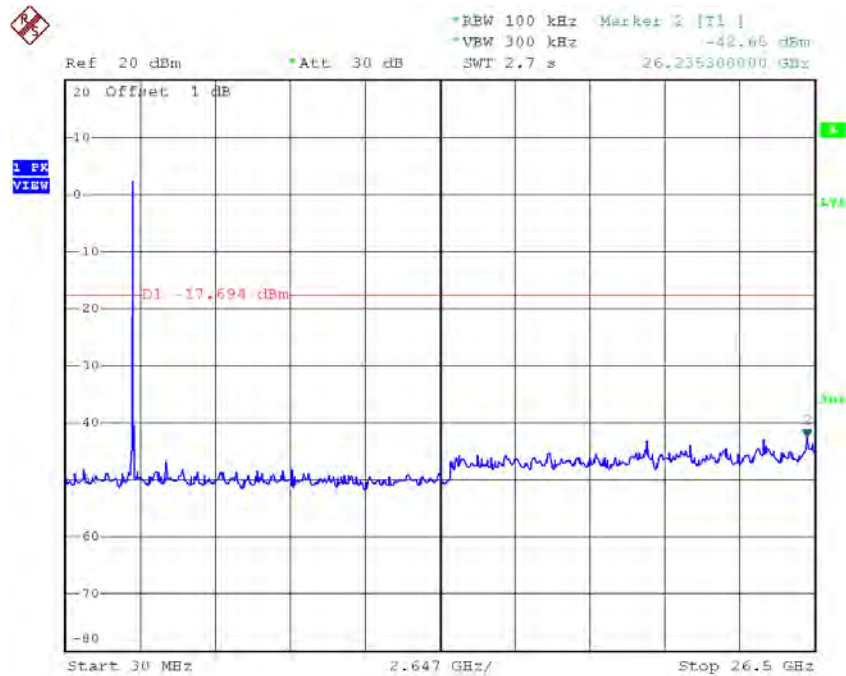


### TX HT20 mode CH01 (10 Harmonic of the frequency)



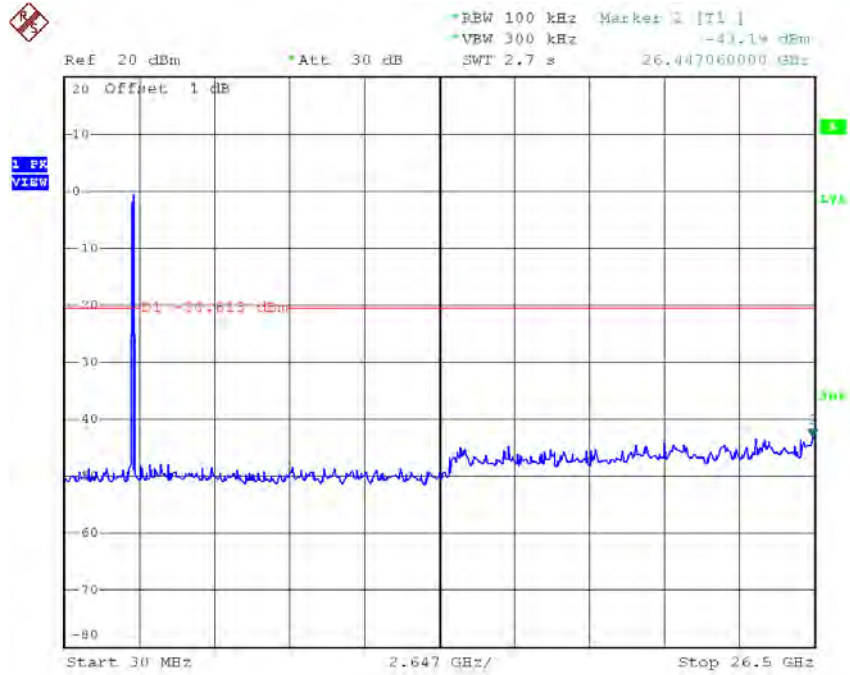
Date: 13.OCT.2015 14:24:50

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



Date: 13.OCT.2015 14:26:19

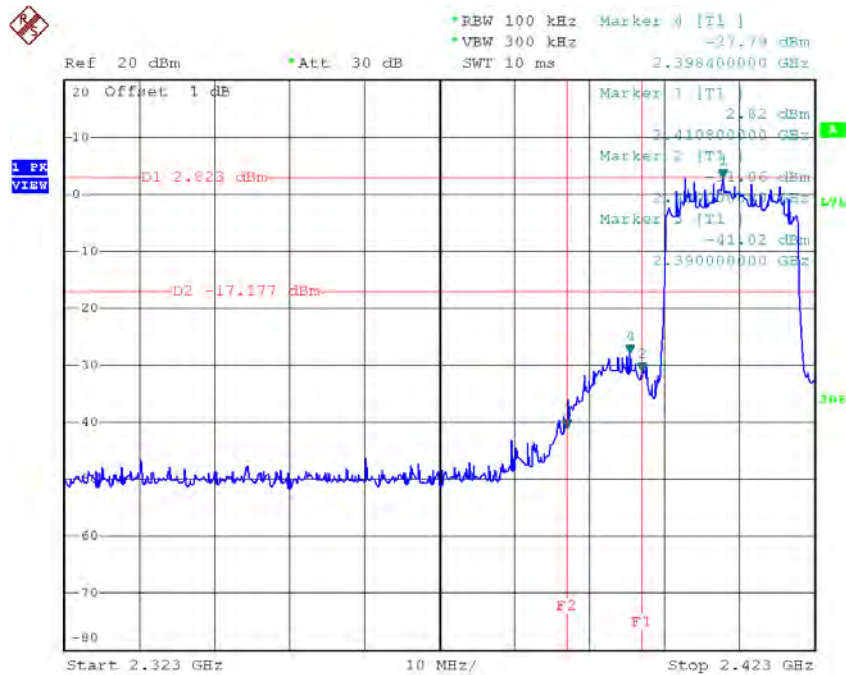
### TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 13.OCT.2015 14:27:43

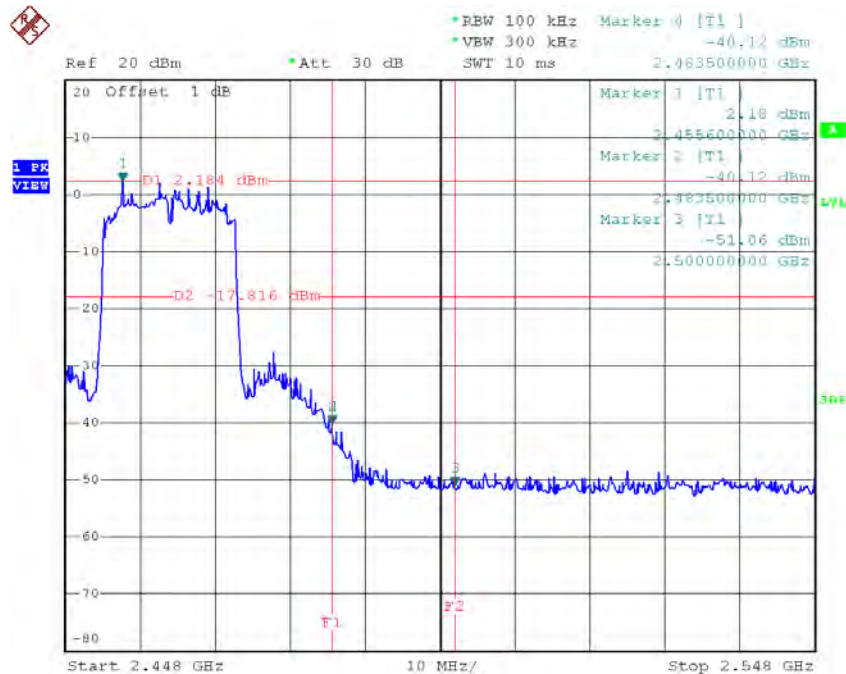
Test Mode :	TX N-20M Mode_ANT 2
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### TX HT20 mode CH01



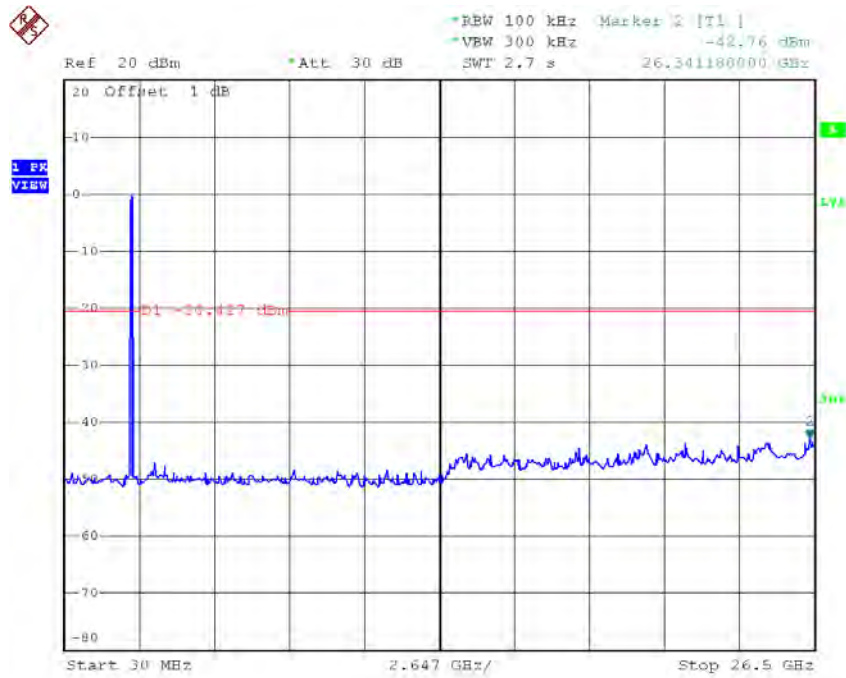
Date: 13.OCT.2015 14:29:41

### TX HT20 mode CH11



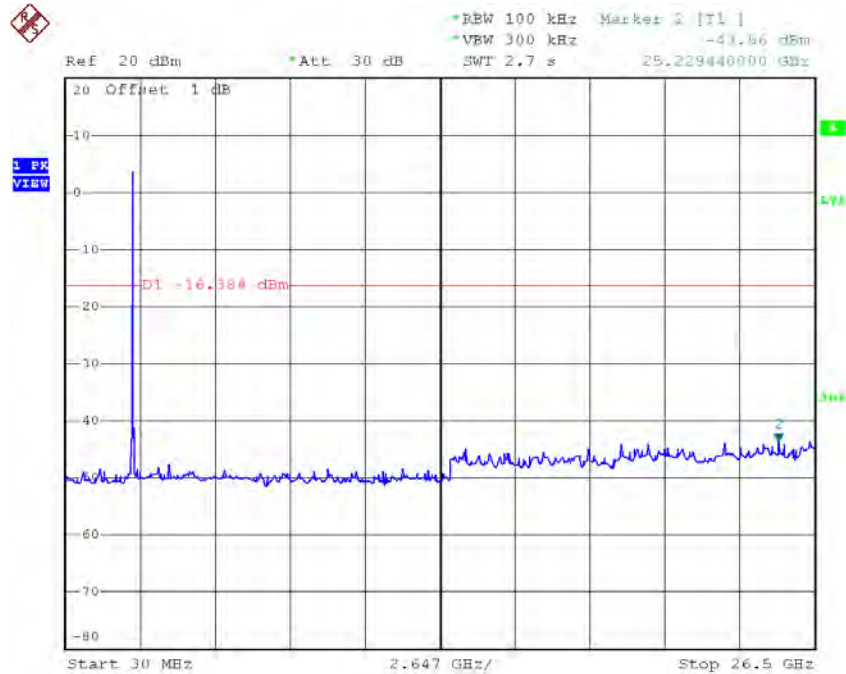
Date: 13.OCT.2015 14:31:44

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



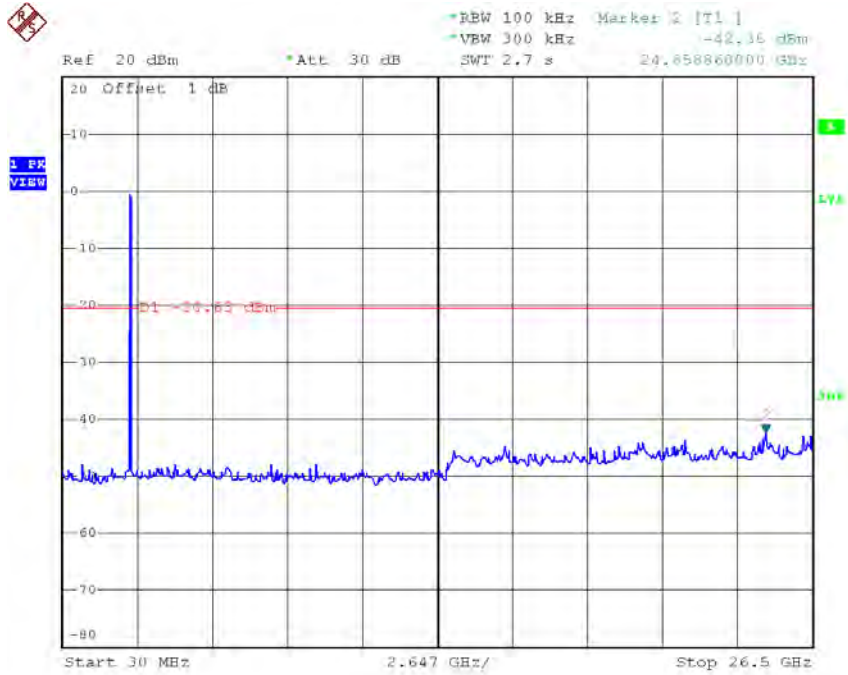
Date: 13.OCT.2015 14:29:33

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



Date: 13.OCT.2015 14:30:37

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

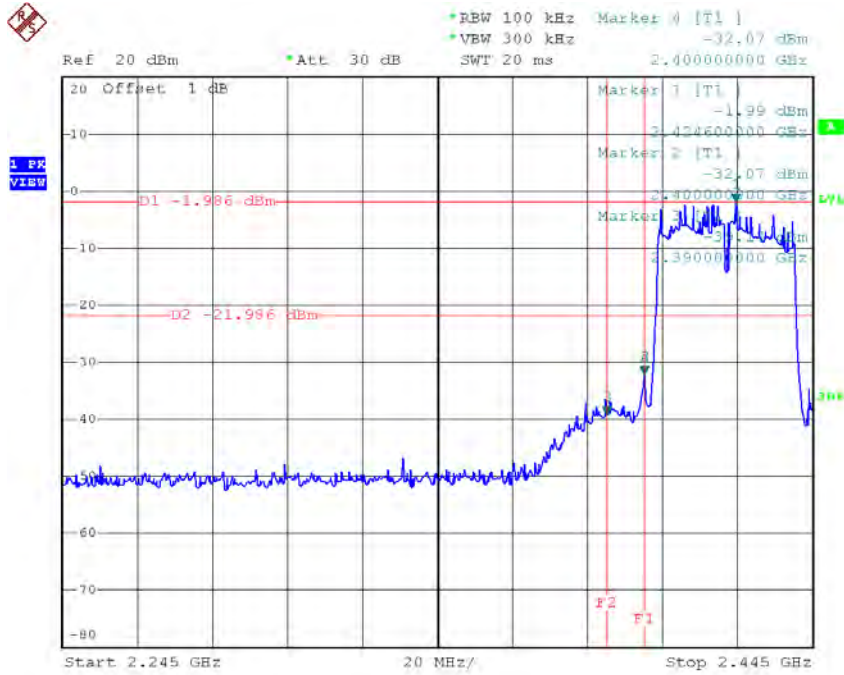


Date: 13.OCT.2015 14:31:37



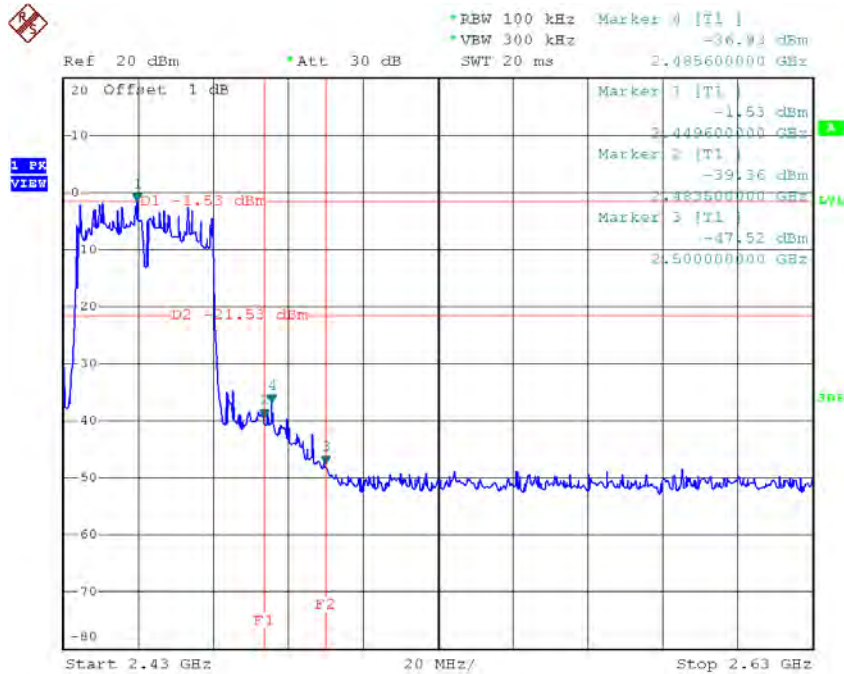
<b>Test Mode :</b>	<b>TX N-40M Mode_ANT 1</b>
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### TX HT40 mode CH03



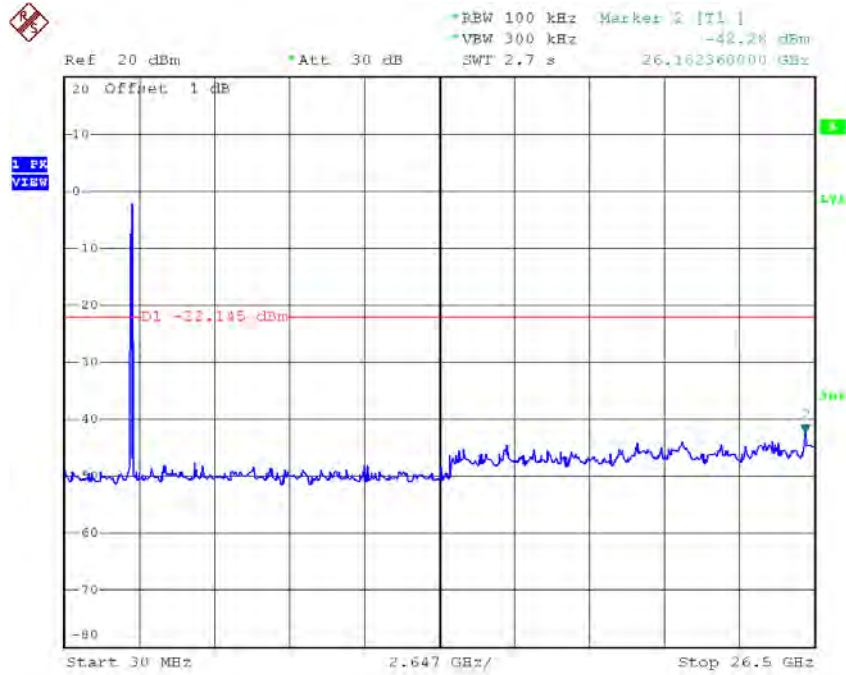
Date: 13.OCT.2015 14:33:21

### TX HT40 mode CH09



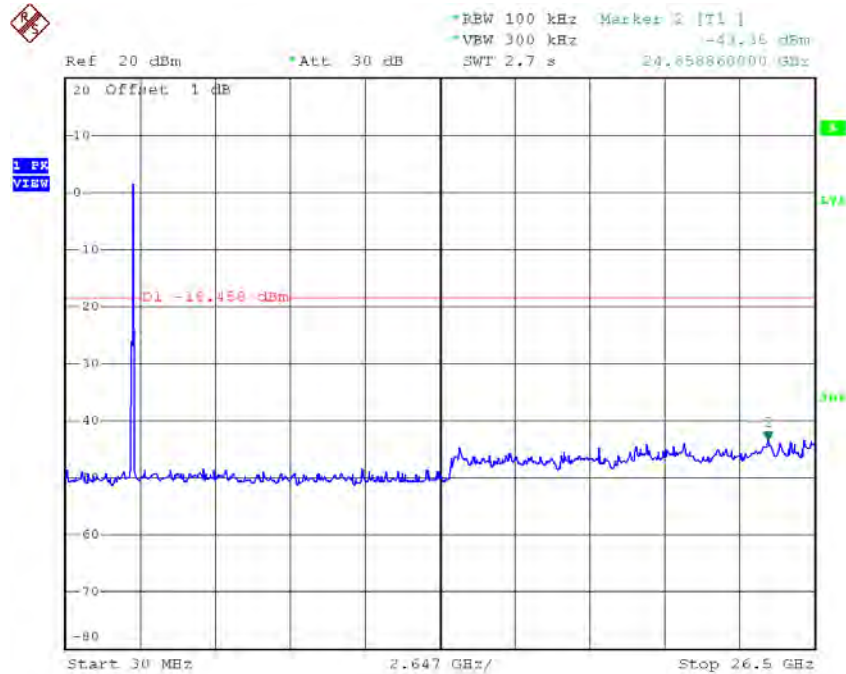
Date: 13.OCT.2015 14:36:12

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



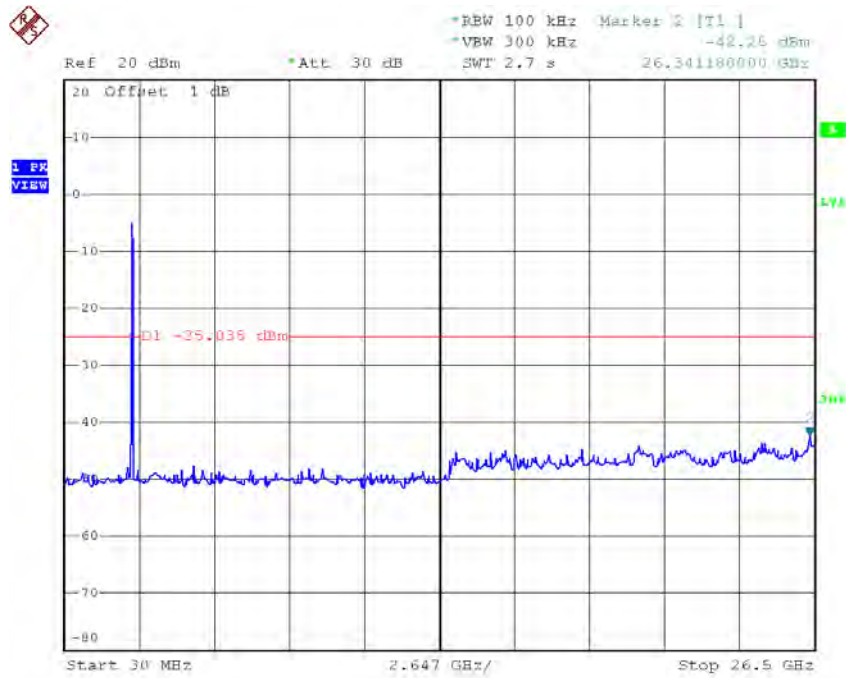
Date: 13.OCT.2015 14:33:14

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



Date: 13.OCT.2015 14:35:07

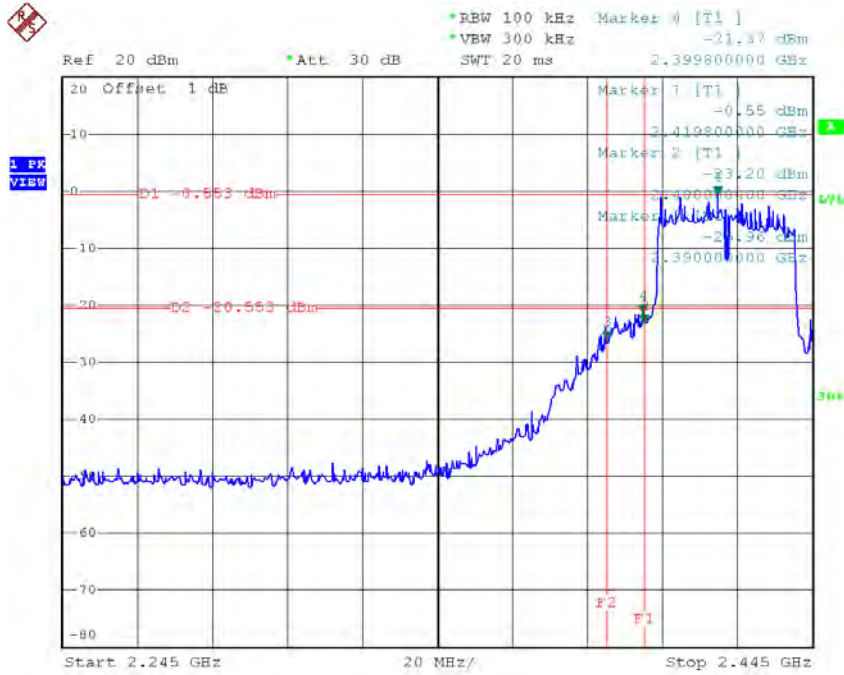
### TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 13.OCT.2015 14:36:05

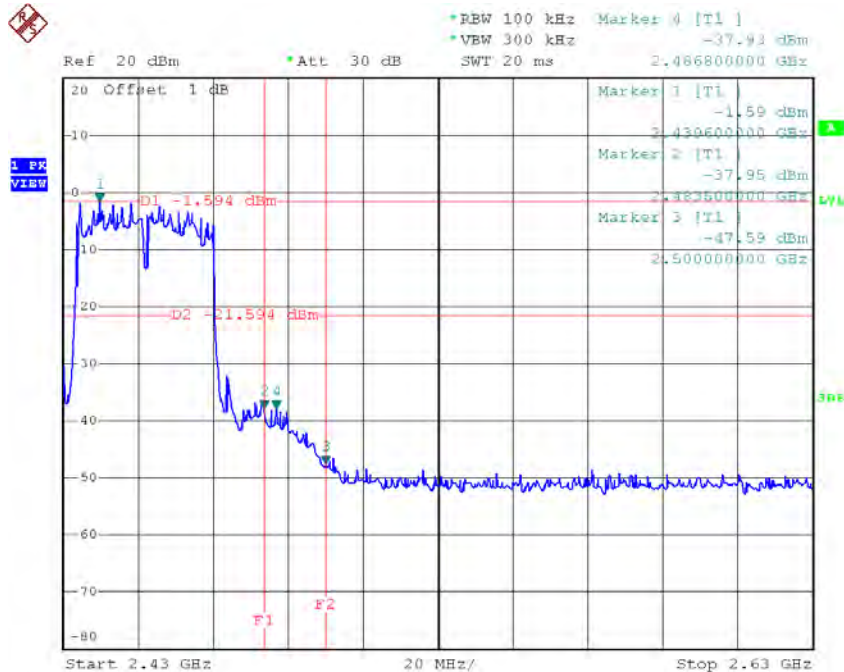
<b>Test Mode :</b>	<b>TX N-40M Mode_ANT 2</b>
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### TX HT40 mode CH03



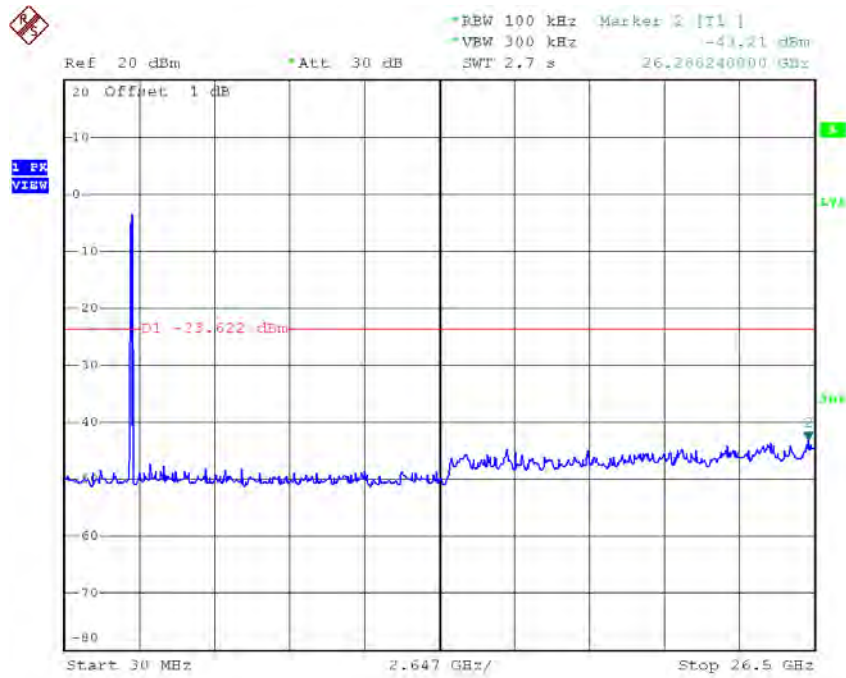
Date: 13.OCT.2015 14:37:32

### TX HT40 mode CH09



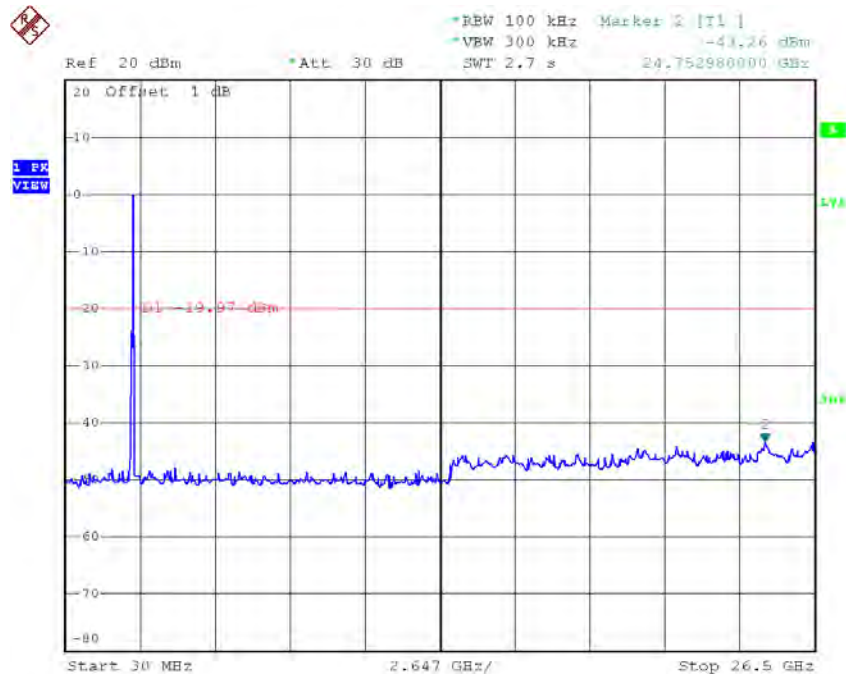
Date: 13.OCT.2015 14:39:29

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



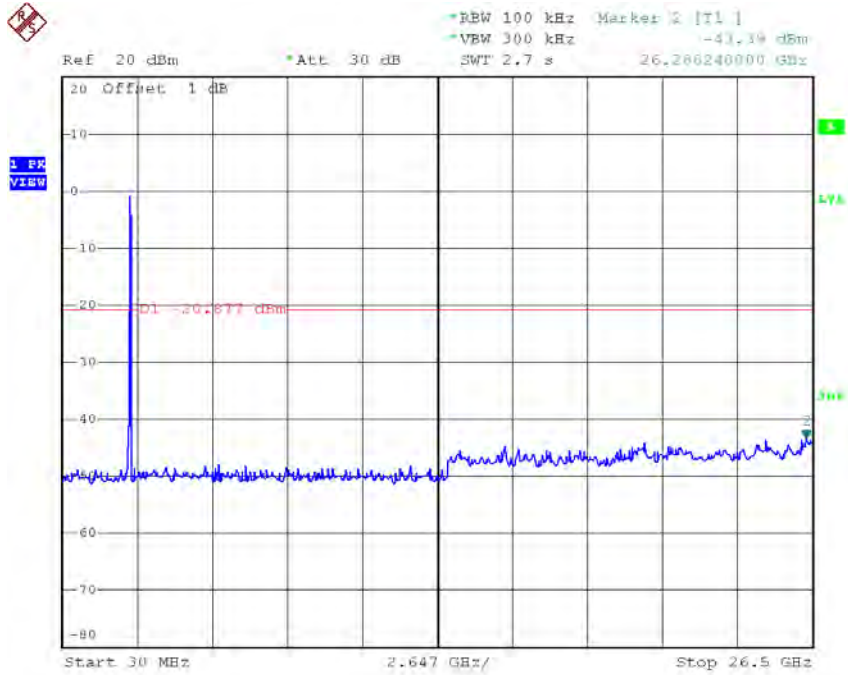
Date: 13.OCT.2015 14:37:24

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



Date: 13.OCT.2015 14:38:28

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



Date: 13.OCT.2015 14:39:21

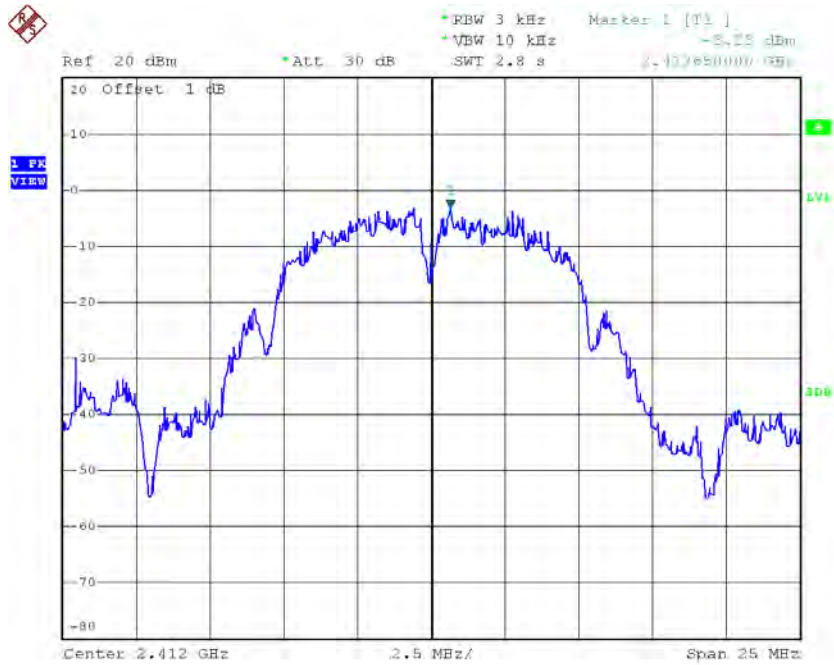


## ATTACHMENT H - POWER SPECTRAL DENSITY

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

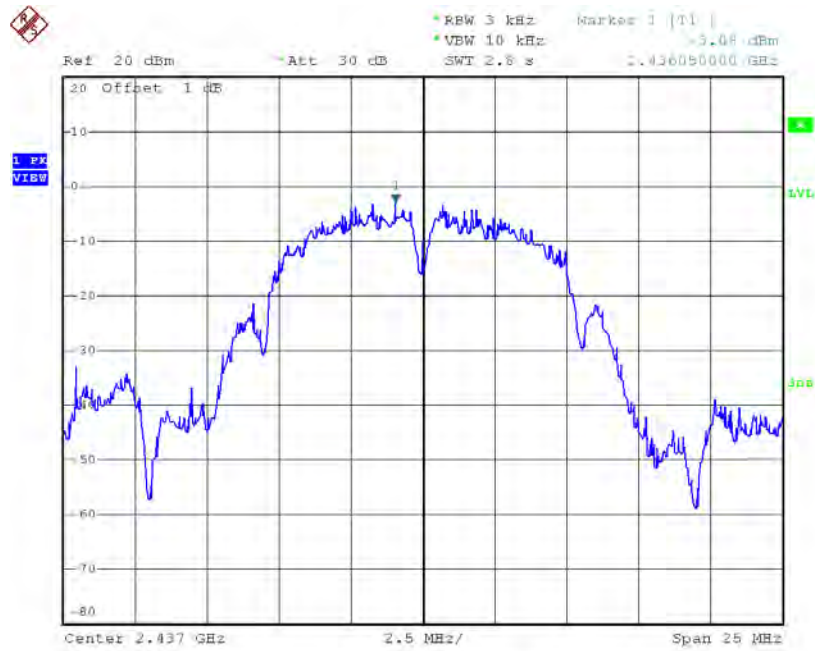
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-3.23	0.48	8.00	Complies
2437	-3.08	0.49	8.00	Complies
2462	-3.24	0.47	8.00	Complies

**TX CH01**



Date: 13.OCT.2015 14:05:55

### TX CH06



Date: 13.OCT.2015 14:07:07

### TX CH11

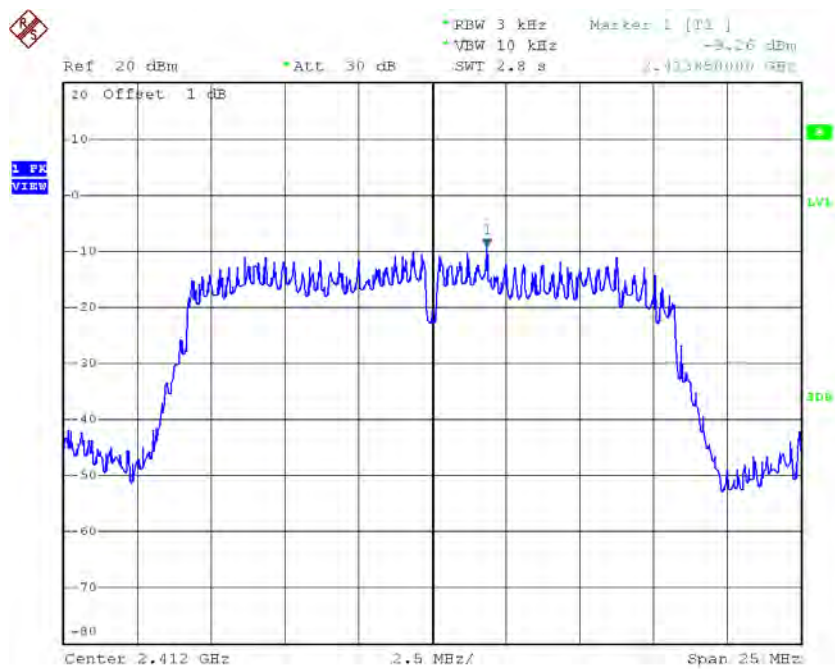


Date: 13.OCT.2015 14:08:32

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

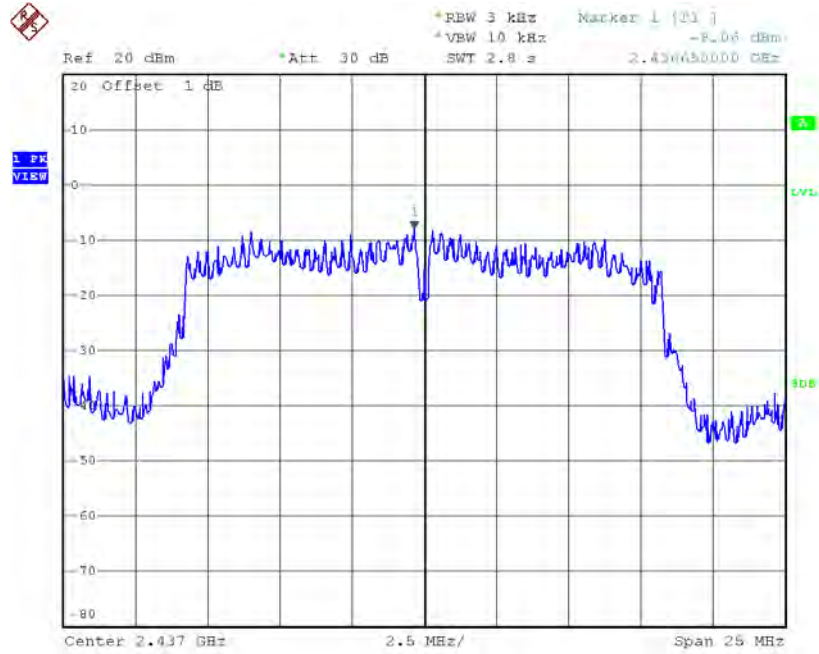
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.26	0.12	8.00	Complies
2437	-8.06	0.16	8.00	Complies
2462	-11.54	0.07	8.00	Complies

**TX CH01**



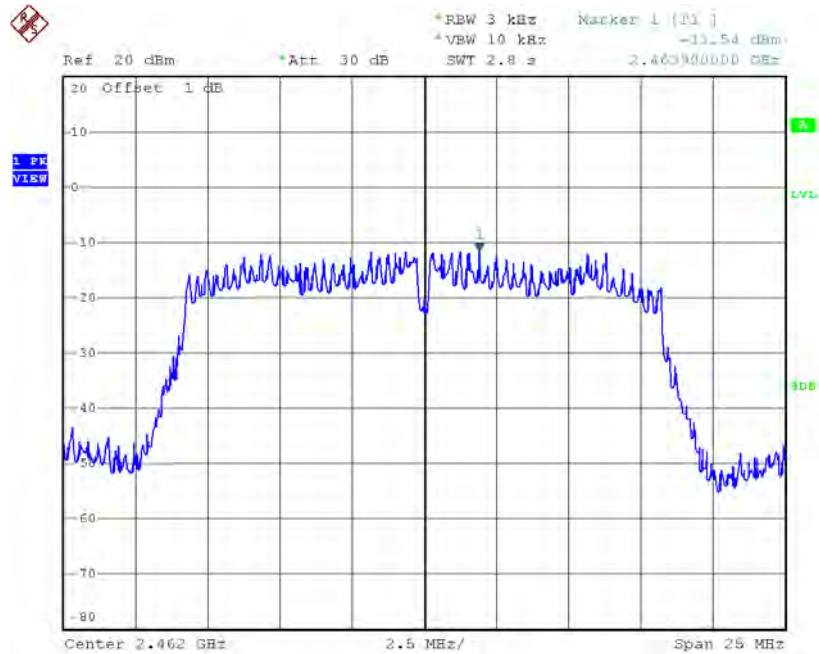
Date: 13.OCT.2015 14:09:45

### TX CH06



Date: 13.OCT.2015 14:10:52

### TX CH11

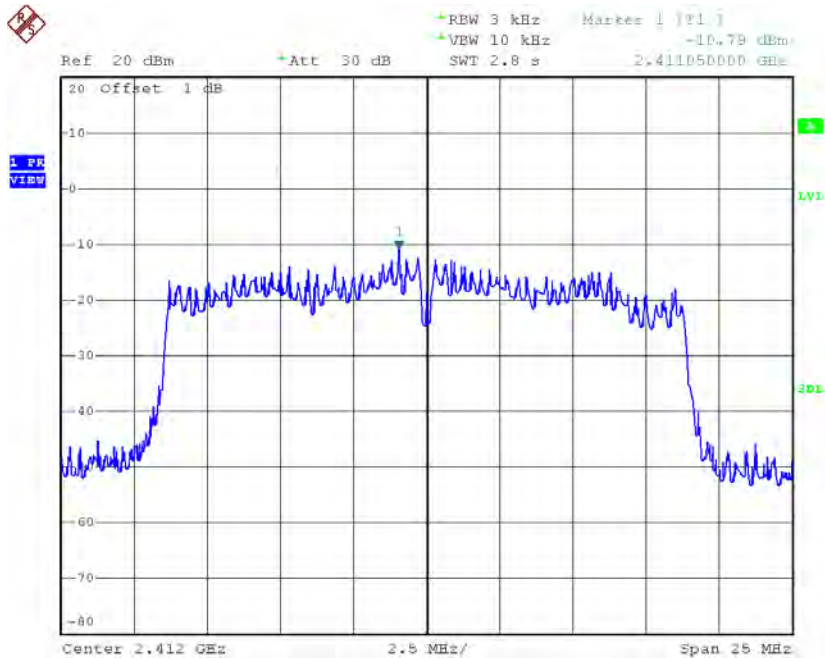


Date: 13.OCT.2015 14:12:06

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

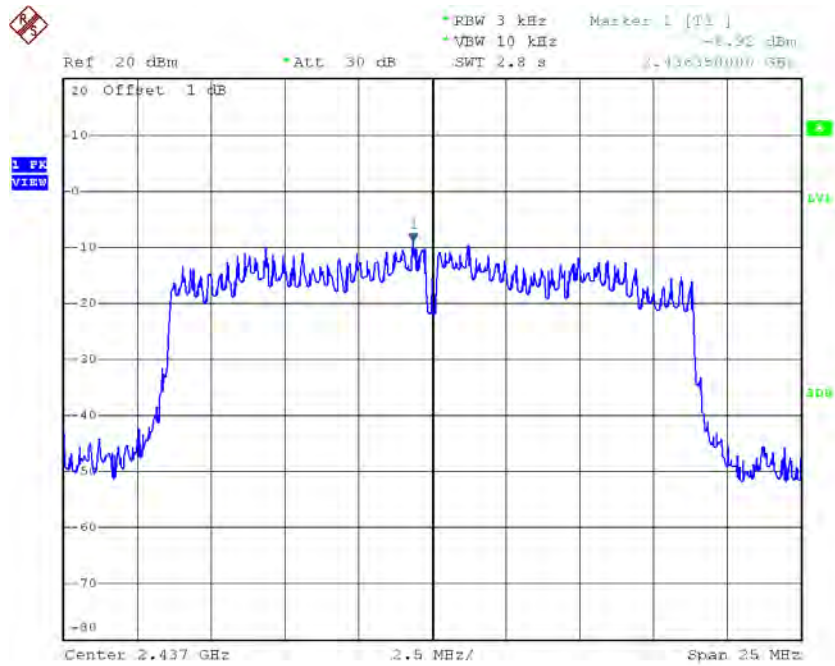
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.79	0.08	8.00	Complies
2437	-8.92	0.13	8.00	Complies
2462	-10.94	0.08	8.00	Complies

**TX CH01**



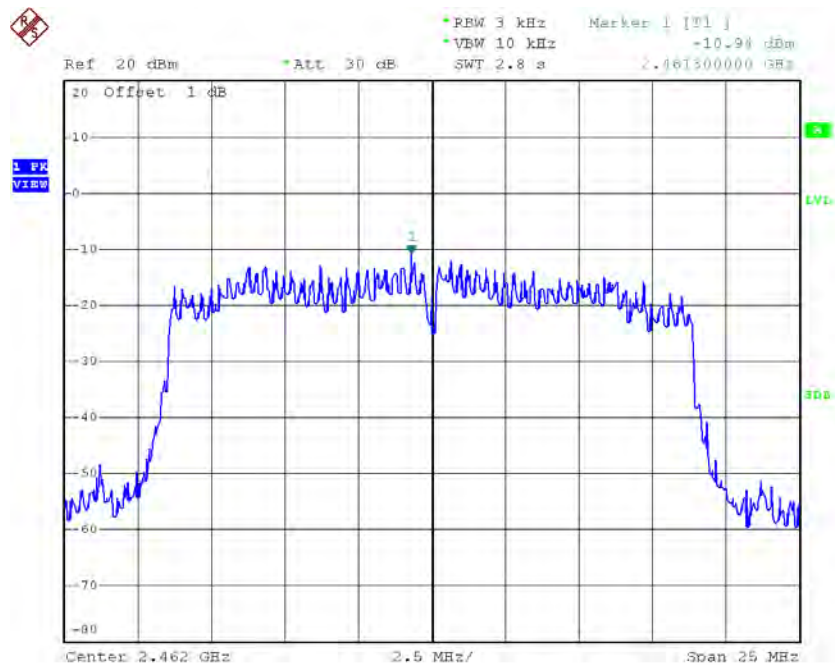
Date: 13.OCT.2015 14:25:07

**TX CH06**



Date: 13.OCT.2015 14:26:28

**TX CH11**

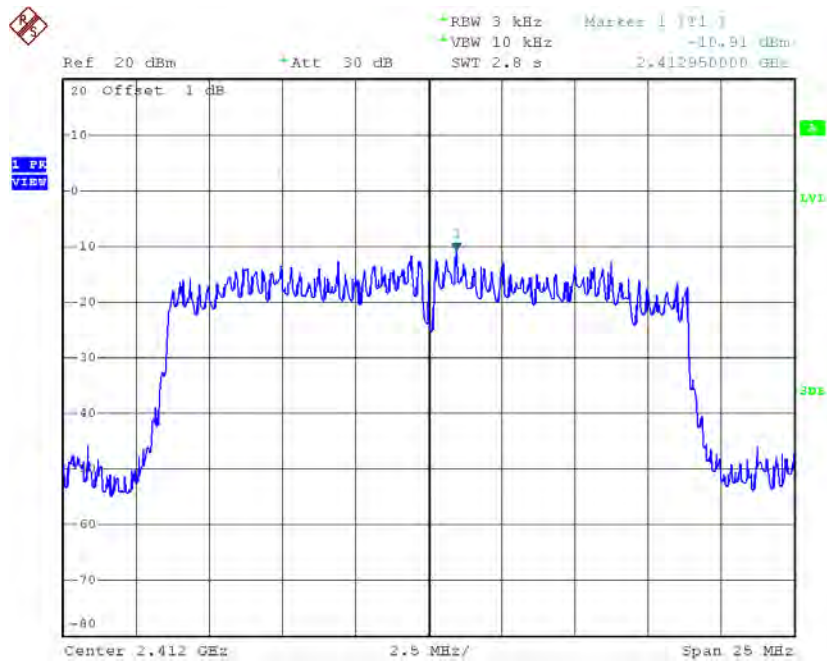


Date: 13.OCT.2015 14:28:00

**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	-10.91	0.08	8.00	Complies
2437	-8.80	0.13	8.00	Complies
2462	-12.46	0.06	8.00	Complies

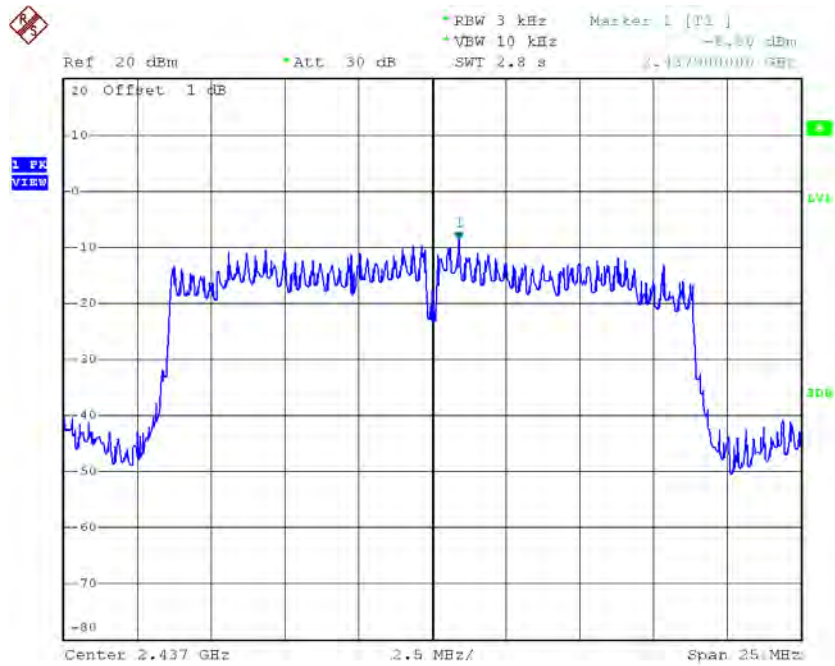
**TX CH01**



Date: 13.OCT.2015 14:29:50

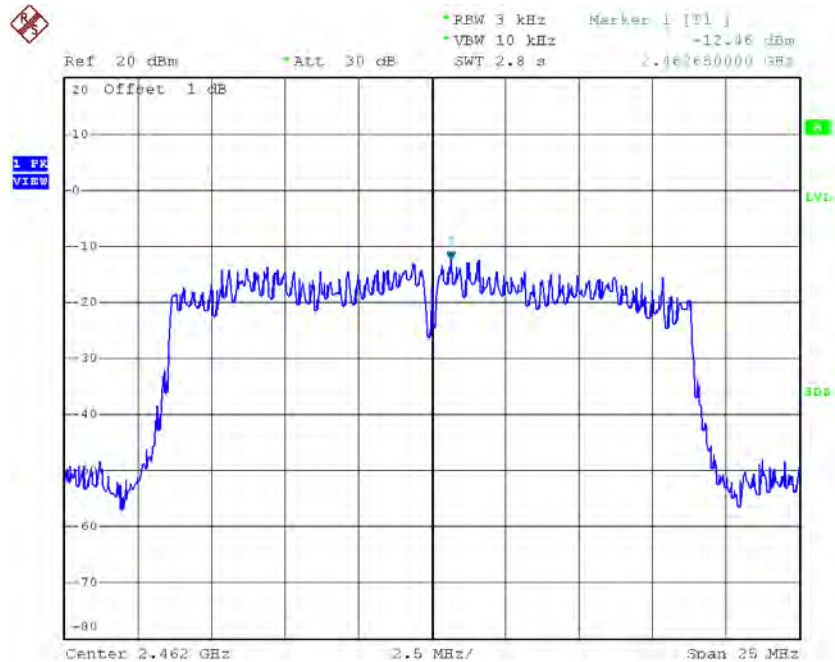


**TX CH06**



Date: 13.OCT.2015 14:30:46

**TX CH11**



Date: 13.OCT.2015 14:31:54

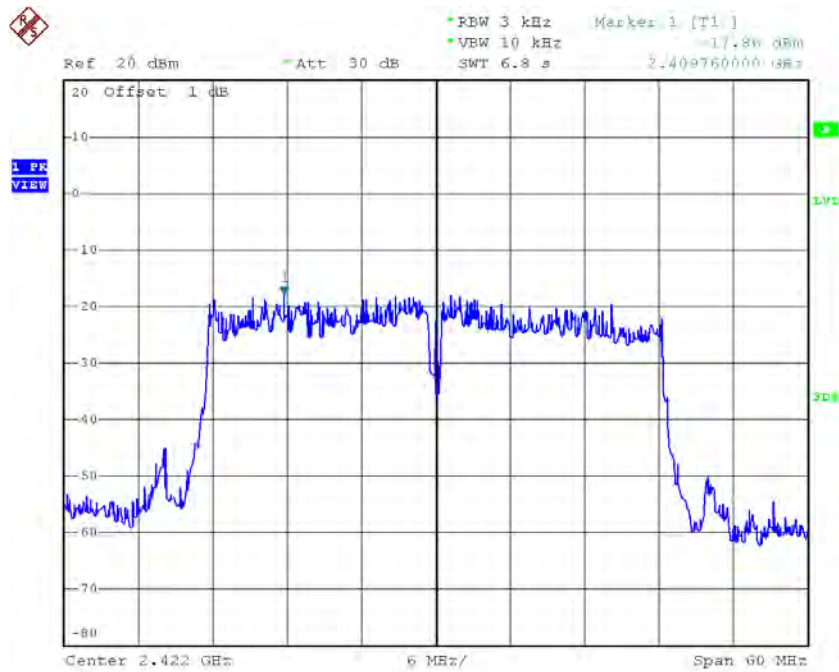
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.96	0.16	8.00	Complies
2437	-5.85	0.26	8.00	Complies
2462	-8.54	0.14	8.00	Complies

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

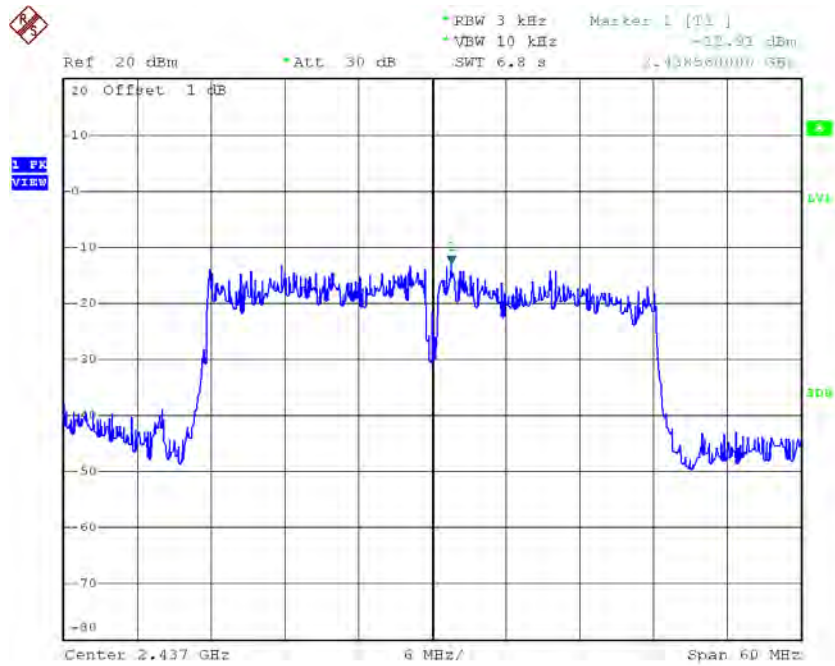
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.86	0.02	8.00	Complies
2437	-12.91	0.05	8.00	Complies
2452	-15.03	0.03	8.00	Complies

**TX CH03**



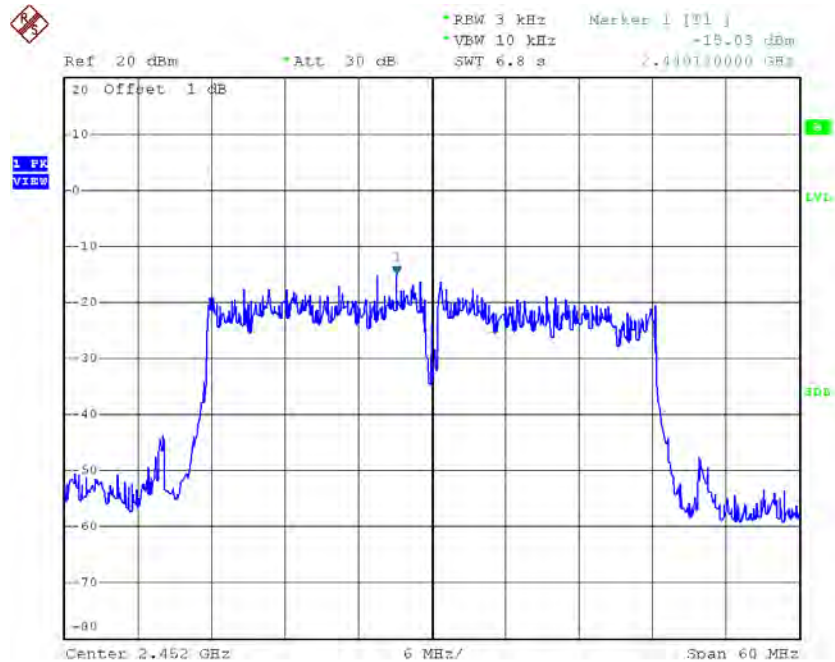
Date: 13.OCT.2015 14:33:34

### TX CH06



Date: 13.OCT.2015 14:35:19

### TX CH09

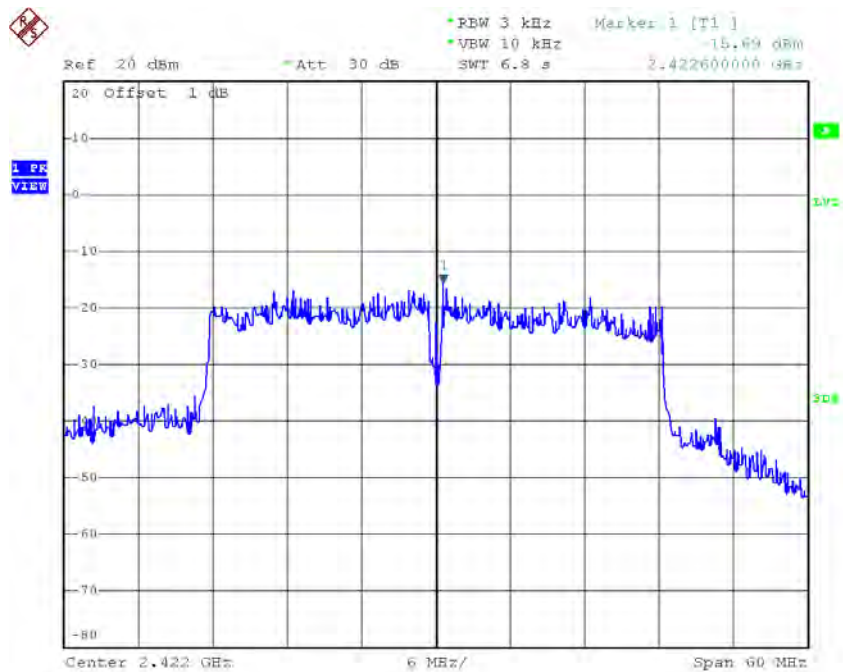


Date: 13.OCT.2015 14:36:24

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

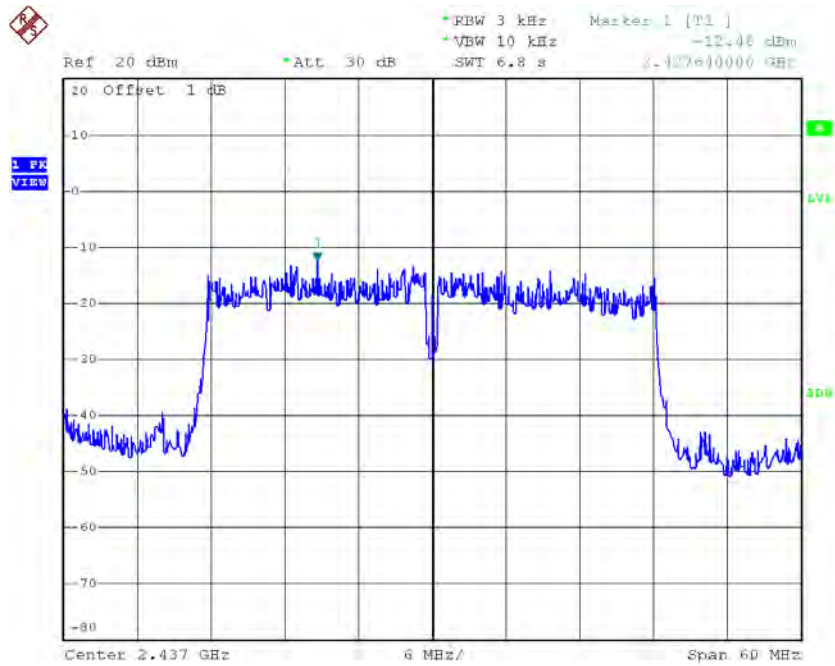
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.69	0.03	8.00	Complies
2437	-12.48	0.06	8.00	Complies
2452	-16.58	0.02	8.00	Complies

**TX CH03**



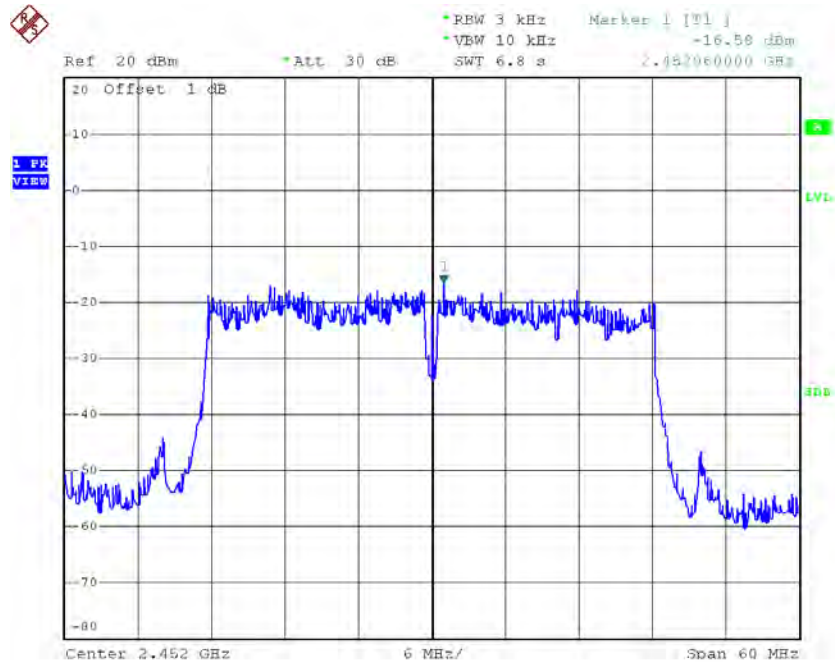
Date: 13.OCT.2015 14:37:44

### TX CH06



Date: 13.OCT.2015 14:38:40

### TX CH09



Date: 13.OCT.2015 14:39:41

**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	-13.01	0.05	8.00	Complies
2437	-9.59	0.11	8.00	Complies
2452	-13.01	0.05	8.00	Complies