

# FCC Radio Test Report

## FCC ID: V7TU12

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

**Project No.** : 1611C207  
**Equipment** : AC1300 Wireless Dual Band USB Adapter  
**Model Name** : U12  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
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**Date of Receipt** : Nov. 28, 2016  
**Date of Test** : Nov. 28, 2016 ~ Dec. 12, 2016  
**Issued Date** : Dec. 13, 2016  
**Tested by** : BTL Inc.

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### Limitation

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**REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1611C207	Original Issue.	Dec. 13, 2016

## 1. CERTIFICATION

Equipment : AC1300 Wireless Dual Band USB Adapter  
Brand Name : Tenda  
Model Name : U12  
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 : Nov. 28, 2016 ~ Dec. 12, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C:(15.247) /ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1611C207) 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).

**Test results included in this report is only for WLAN 2.4G part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

NOTE:

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

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

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

### A. Conducted Measurement:

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

### B. Radiated Measurement:

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

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1300 Wireless Dual Band USB Adapter	
Brand Name	Tenda	
Model Name	U12	
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
	Average Output Power (Max.)	802.11b: 9.63dBm 802.11g: 9.54dBm 802.11n(20MHz): 9.67dBm 802.11n(40MHz): 9.56dBm
PowerSource	Supplied from PC USB port.	
Power Rating	DC 5V	

Note:

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

## 2. Channel List:

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

## 3. Table for Filed Antenna

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

### Note:

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

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

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

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

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

<b>6dB Spectrum Bandwidth</b>	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

<b>Maximum Conducted Output Power</b>	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

<b>Power Spectral Density</b>	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

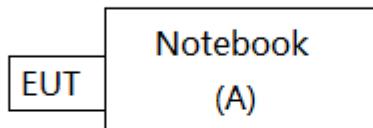
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (6.5Mbps)  
 802.11n HT40mode : BPSK (13.5Mbps)
- For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11bis 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	MPTool		
Frequency (MHz)	2412	2437	2462
802.11b	21	20	20
802.11g	30	33	33
802.11n (20MHz)	28	28	27
Frequency	2422	2437	2452
802.11n (40MHz)	29	29	29

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



### 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Notebook	Lenovo	INSPIRON 1420-	DOC	JX193A01SDC2

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

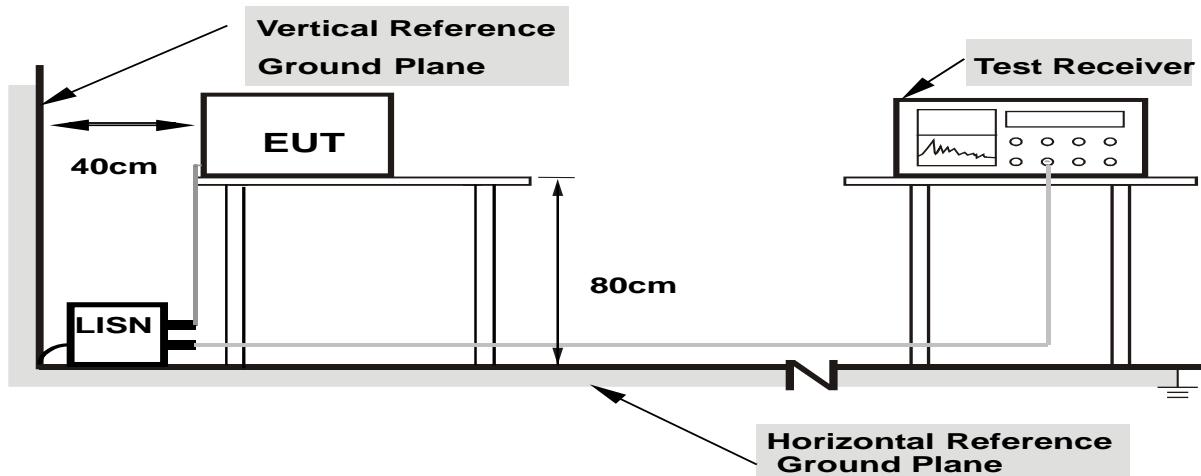
#### 4.1.2 TEST PROCEDURE

- 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 groundplane 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 TESTSETUP



**Note:** 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 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

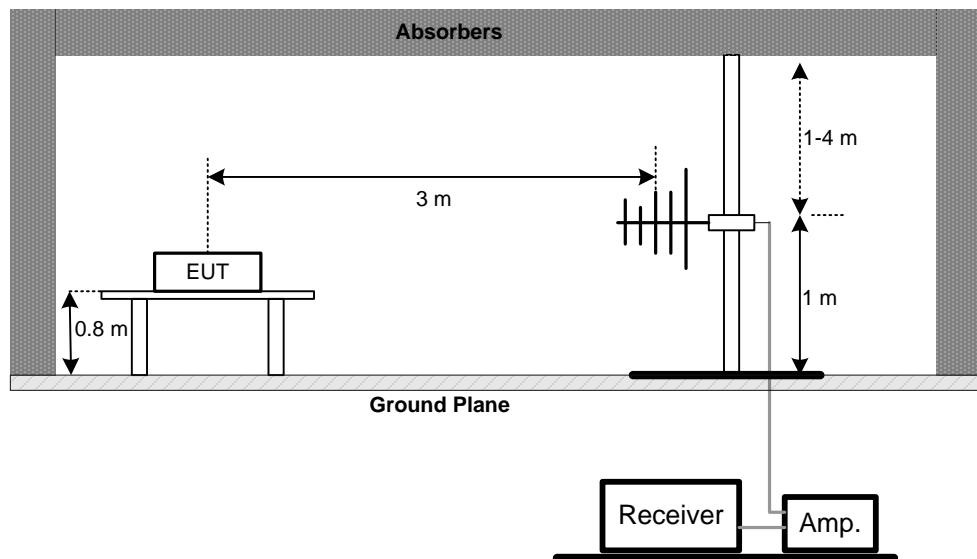
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

#### 4.2.3 DEVIATION FROM TEST STANDARD

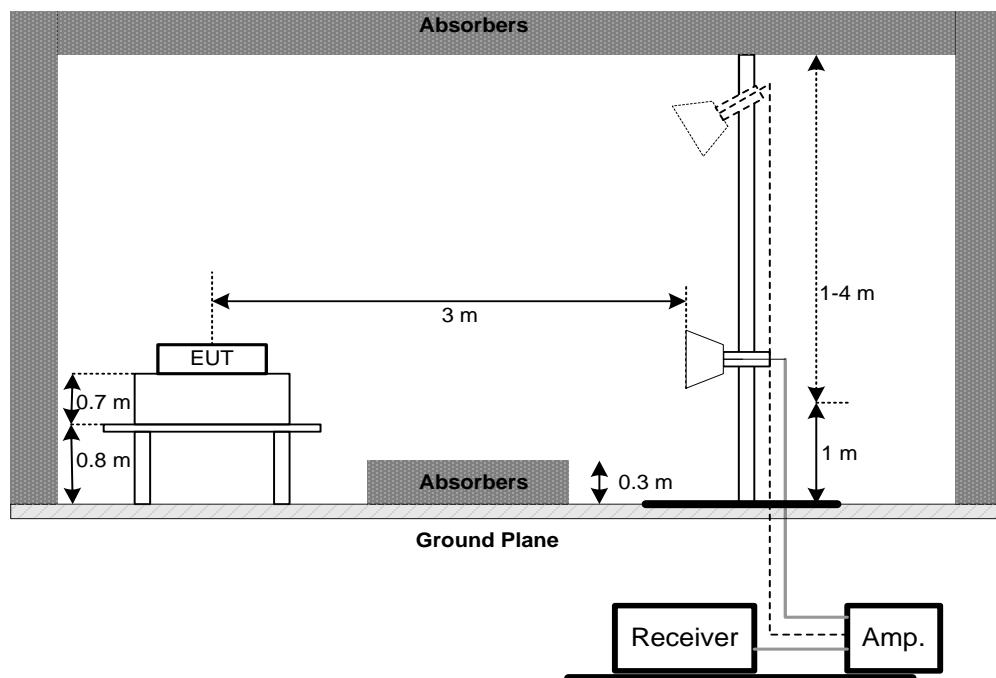
No deviation

#### 4.2.4 TESTSETUP

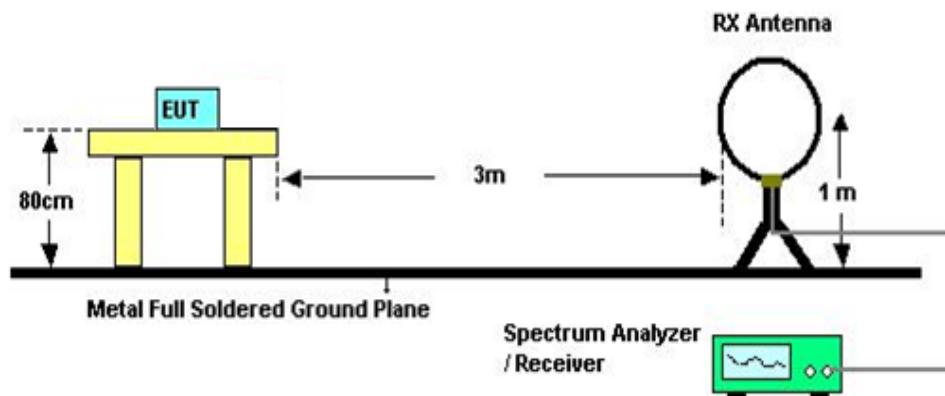
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



## (C) For Radiated Emissions Below 30MHz

**4.2.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.2.6 EUT TEST CONDITIONS**

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

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

Please refer to the 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

### 5.1APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C

Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

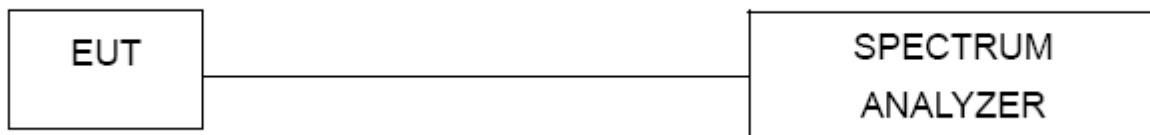
#### 5.1.1TEST PROCEDURE

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

#### 5.1.2DEVIATION FROM STANDARD

No deviation.

#### 5.1.3TEST SETUP



#### 5.1.4EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5EUT TEST CONDITIONS

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

#### 5.1.6TEST RESULTS

Please refer to the Attachment E.

## 6.MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1APPLIED PROCEDURES / LIMIT

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

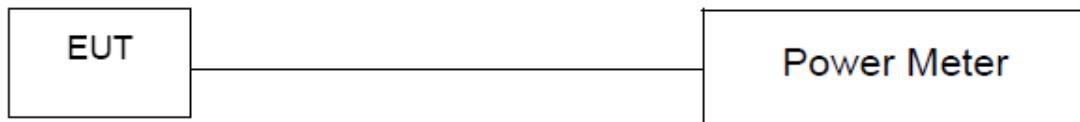
#### 6.1.1TEST PROCEDURE

- 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 558074D01 DTS Meas Guidance.

#### 6.1.2DEVIATION FROM STANDARD

No deviation.

#### 6.1.3TEST SETUP



#### 6.1.4EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.1.5EUT TEST CONDITIONS

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

#### 6.1.6TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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

#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 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

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 04, 2017
4	Test Cable	emci	LMR-400(30MHz -1GHz)	C-01	Jun. 26, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 26, 2017
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017
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	Sep. 04, 2017

**Peak Output Power Measurement**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Sep. 04, 2017
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Sep. 04, 2017

**Antenna Conducted Spurious Emission Measurement**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

**Power Spectral Density Measurement**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

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



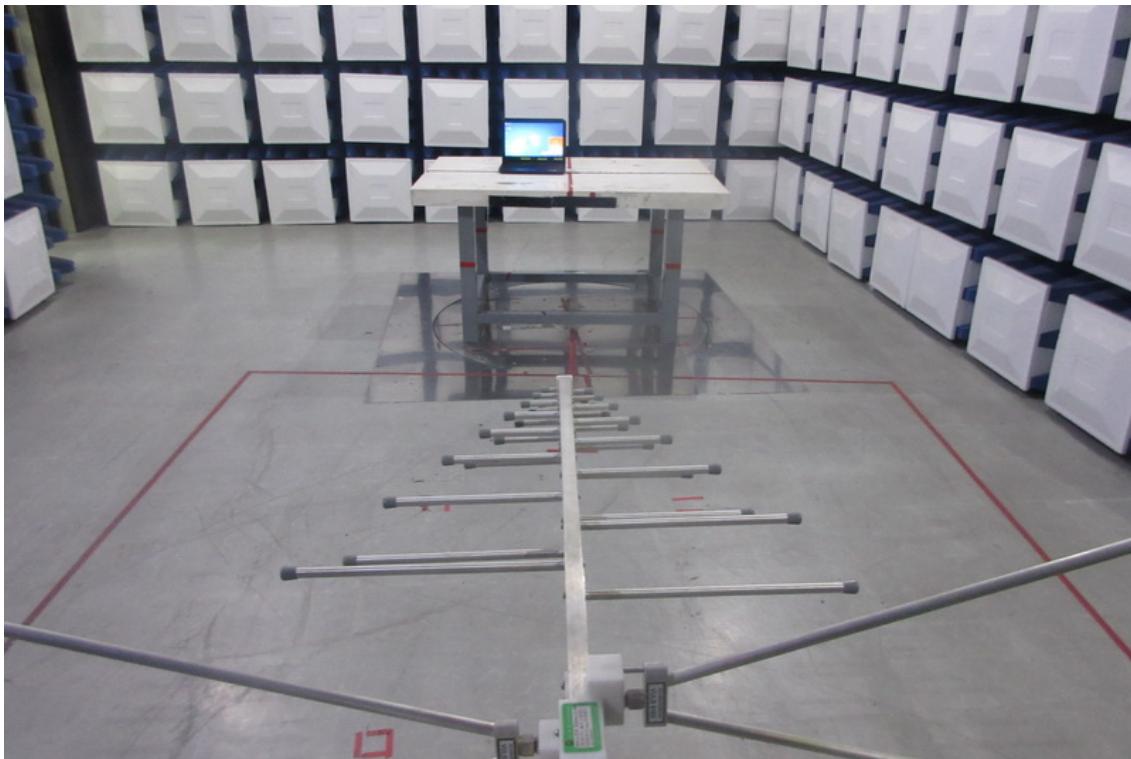
### Radiated Measurement Photos

9KHz to 30MHz



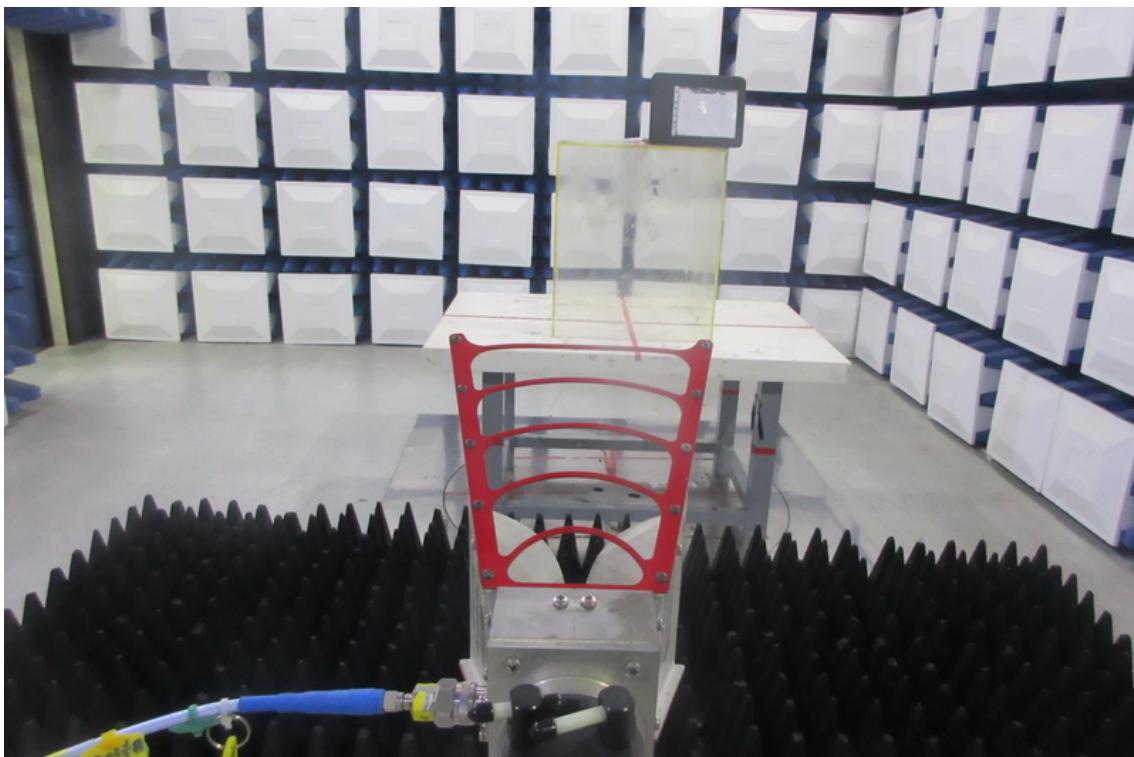
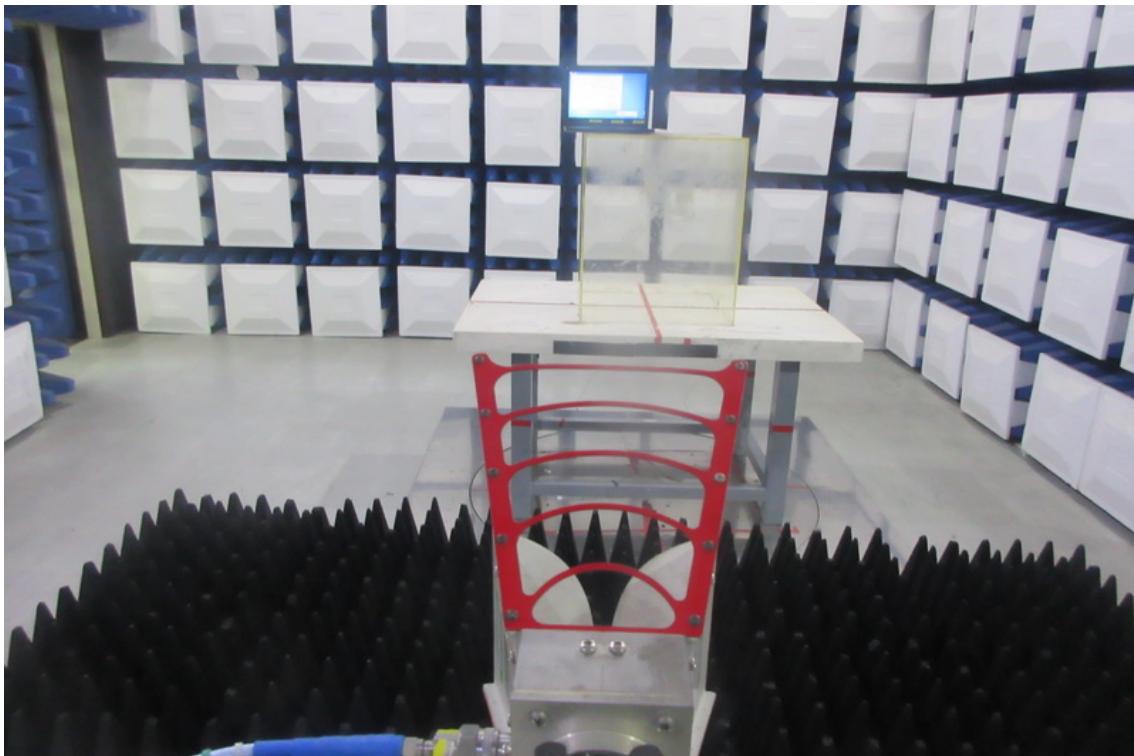
### Radiated Measurement Photos

30MHz to 1000MHz



### Radiated Measurement Photos

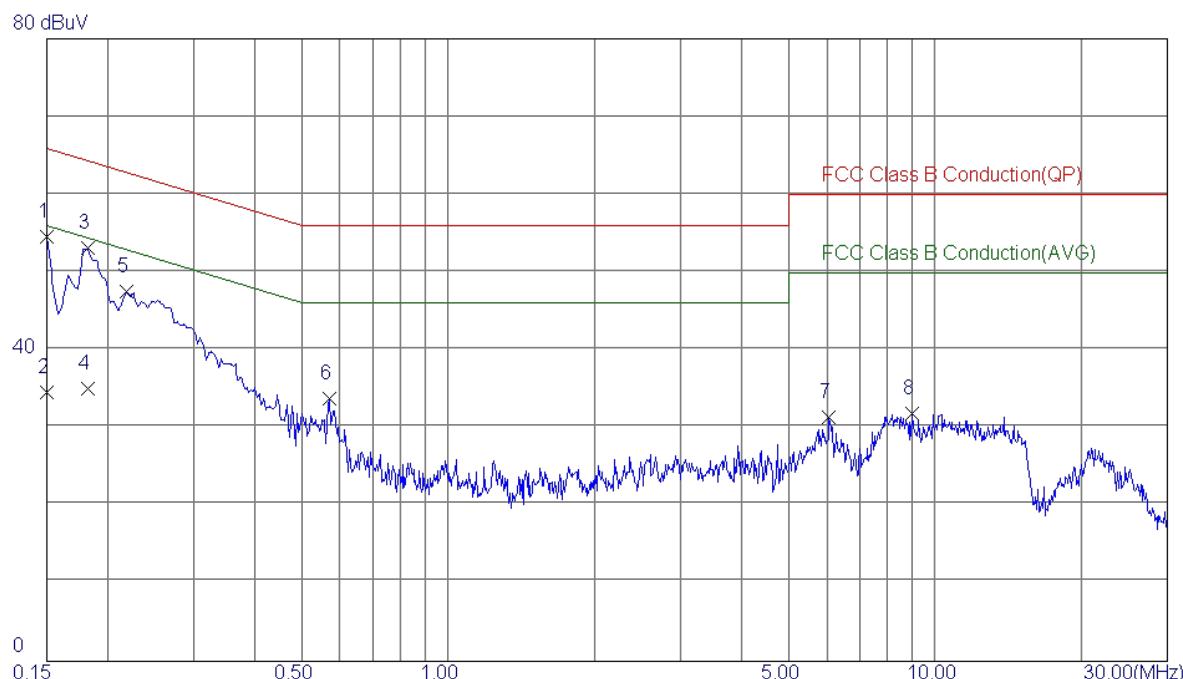
Above 1000MHz



## ATTACHMENTA -CONDUCTED EMISSION

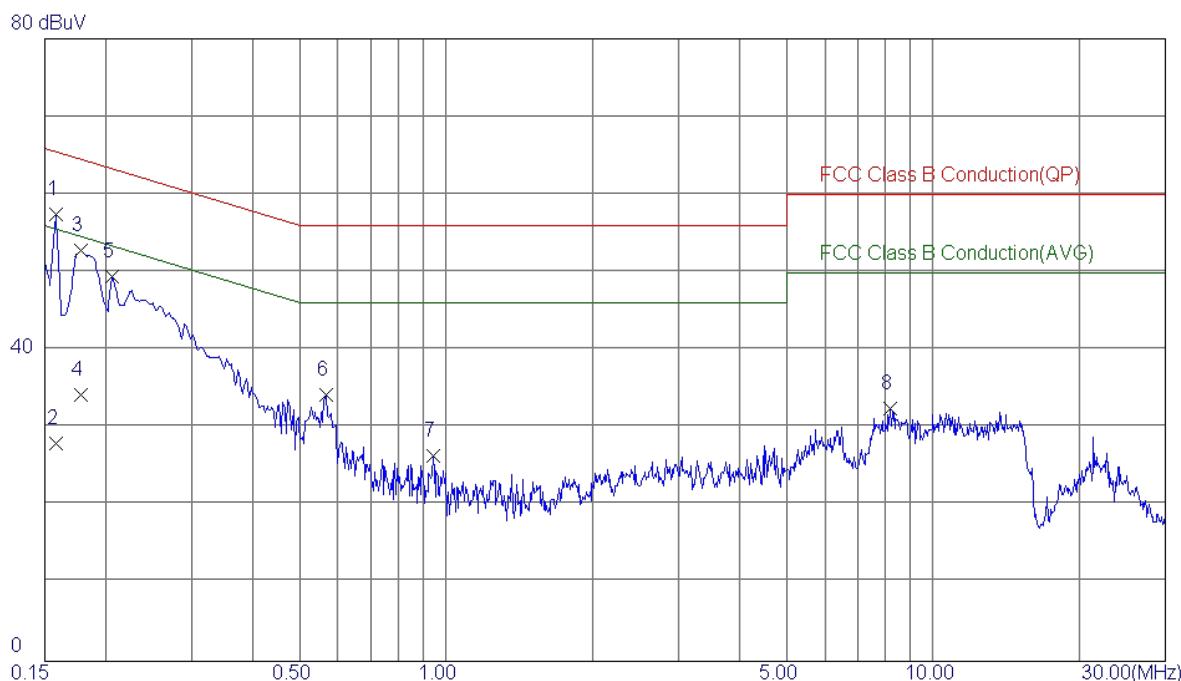
Test Mode : Normal Link

## Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	44.95	9.62	54.57	66.00	-11.43	Peak	
2	0.1500	24.92	9.62	34.54	56.00	-21.46	Avg	
3 *	0.1819	43.44	9.63	53.07	64.40	-11.33	Peak	
4	0.1819	25.39	9.63	35.02	54.40	-19.38	Avg	
5	0.2180	37.88	9.67	47.55	62.89	-15.34	Peak	
6	0.5700	23.99	9.81	33.80	56.00	-22.20	Peak	
7	6.0580	21.69	9.72	31.41	60.00	-28.59	Peak	
8	8.9660	21.94	9.93	31.87	60.00	-28.13	Peak	

Test Mode : Normal Link

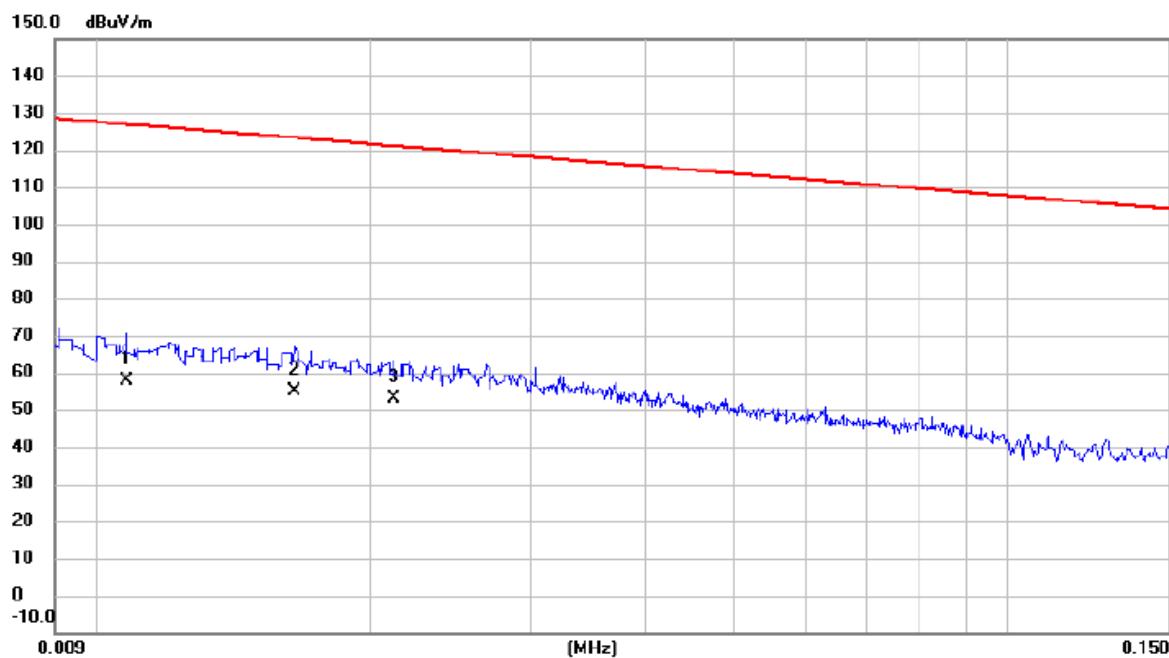
**Neutral**

No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0. 1580	47. 92	9. 52	57. 44	65. 57	-8. 13	Peak	
2	0. 1580	18. 46	9. 52	27. 98	55. 57	-27. 59	Avg	
3	0. 1780	43. 19	9. 55	52. 74	64. 58	-11. 84	Peak	
4	0. 1780	24. 68	9. 55	34. 23	54. 58	-20. 35	Avg	
5	0. 2060	39. 78	9. 63	49. 41	63. 37	-13. 96	Peak	
6	0. 5660	24. 55	9. 64	34. 19	56. 00	-21. 81	Peak	
7	0. 9420	16. 78	9. 66	26. 44	56. 00	-29. 56	Peak	
8	8. 1899	22. 58	9. 84	32. 42	60. 00	-27. 58	Peak	

**ATTACHMENTB -RADIATED EMISSION (9KHZ TO 30MHZ)**

Test Mode: TX B MODE CHANNEL 01

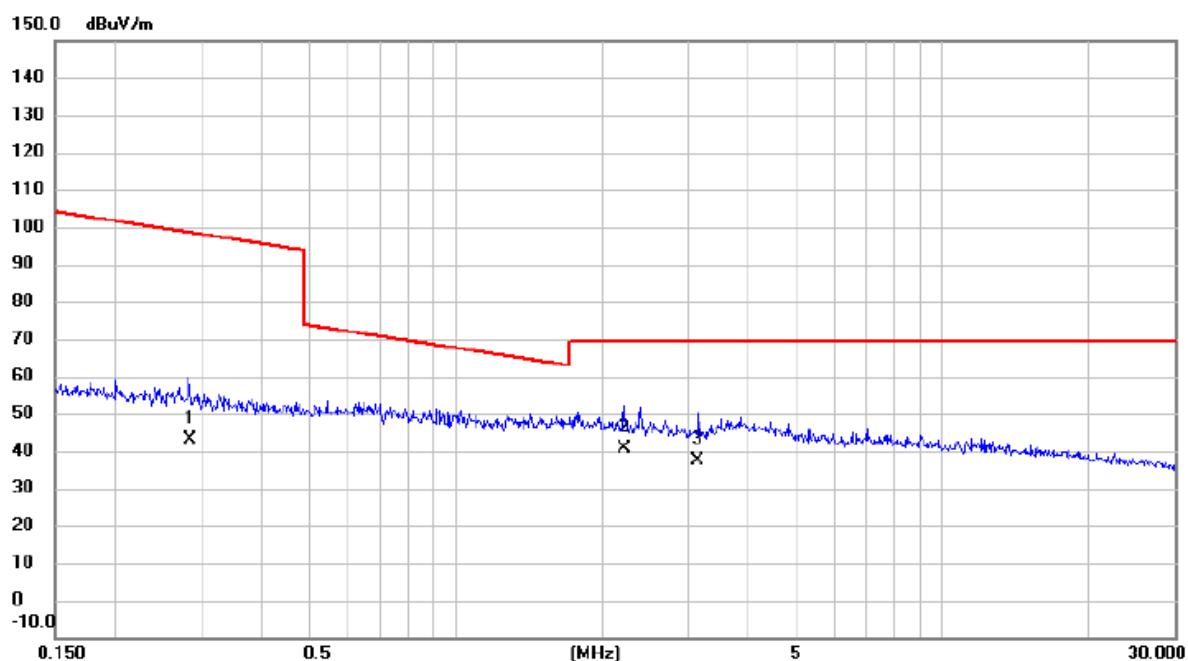
Ant 0°



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Comment
			dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB	
1		0.011	33.80	24.07	57.87	126.94	-69.07	AVG
2		0.017	31.20	23.73	54.93	123.26	-68.33	AVG
3 *		0.021	29.49	23.37	52.86	121.08	-68.22	AVG

Test Mode: TX B MODE CHANNEL 01

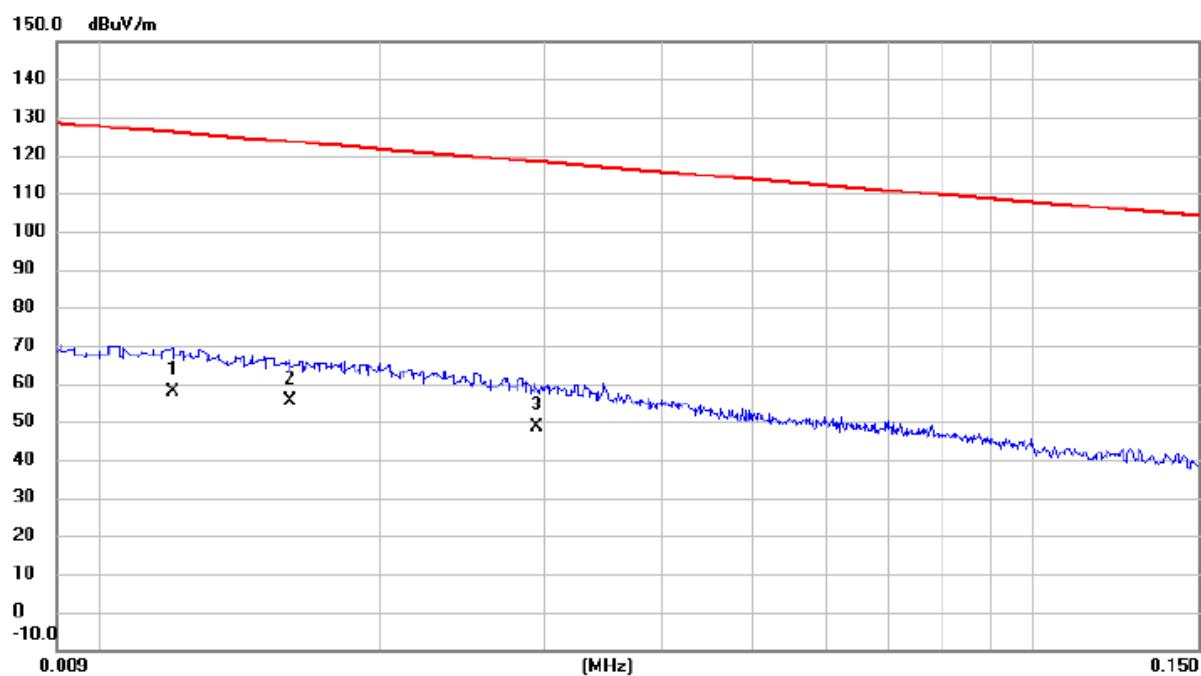
Ant 0°



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	
1		0.283	24.30	18.61	42.91	98.56	-55.65	AVG
2 *		2.213	22.80	17.63	40.43	69.54	-29.11	QP
3		3.140	20.50	16.92	37.42	69.54	-32.12	QP

Test Mode: TX B MODE CHANNEL 01

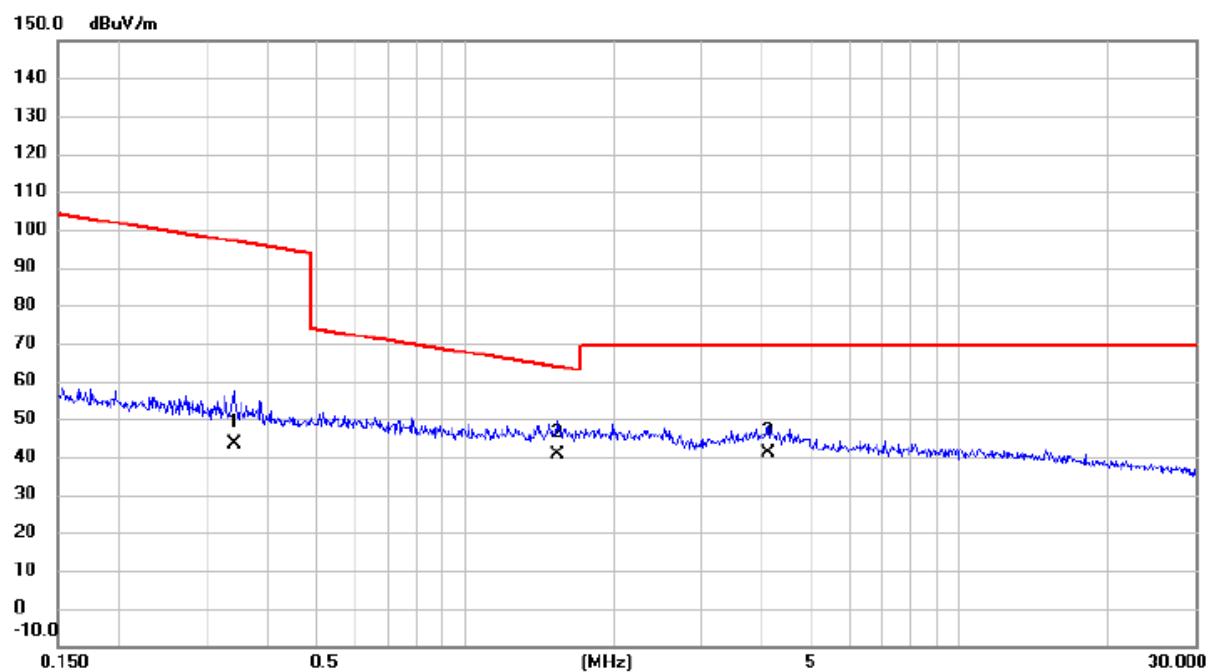
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		0.012	33.80	24.00	57.80	126.02	-68.22	AVG
2 *		0.016	31.60	23.76	55.36	123.52	-68.16	AVG
3		0.029	26.10	22.36	48.46	118.24	-69.78	AVG

Test Mode: TX B MODE CHANNEL 01

Ant 90°



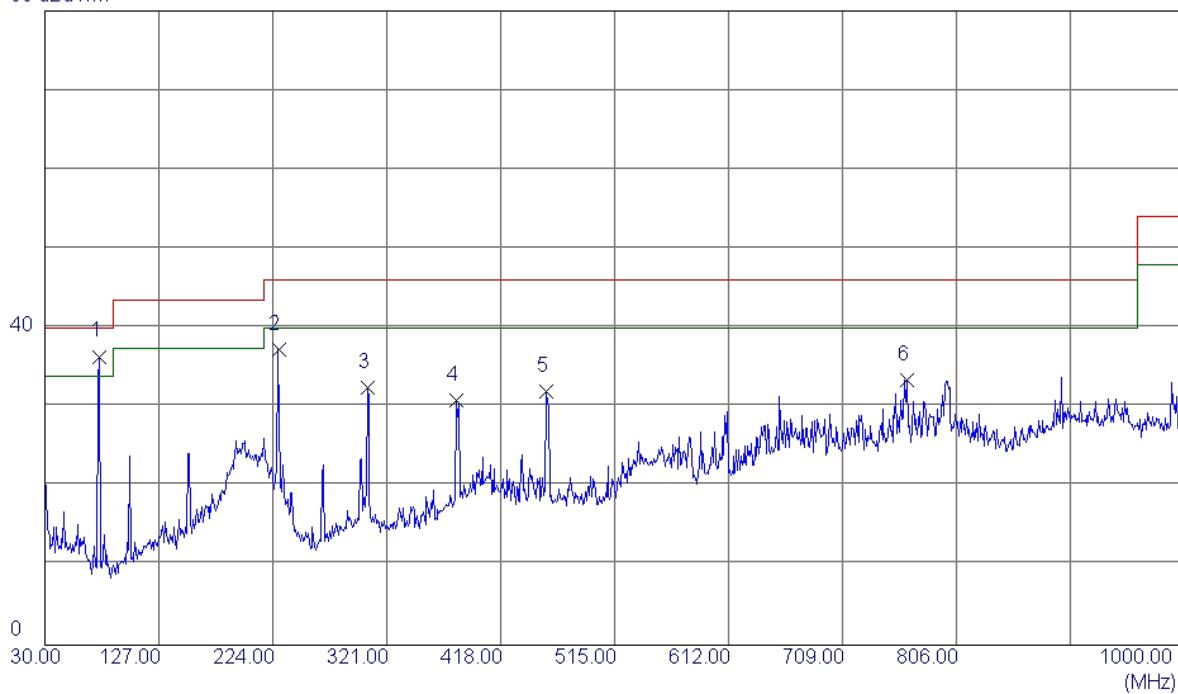
No.	Mk.	Freq. MHz	Reading Level dB <sub>B</sub> V	Correct Factor dB	Measure- ment dB <sub>B</sub> V/m	Limit dB	Margin Detector	Comment
1		0.341	24.80	18.55	43.35	96.95	-53.60	AVG
2 *		1.536	22.70	17.80	40.50	63.88	-23.38	QP
3		4.092	22.50	18.57	41.07	69.54	-28.47	QP

**ATTACHMENTC -RADIATED EMISSION (30MHZ TO 1000MHZ)**

Test Mode: TX B MODE CHANNEL 01

### Vertical

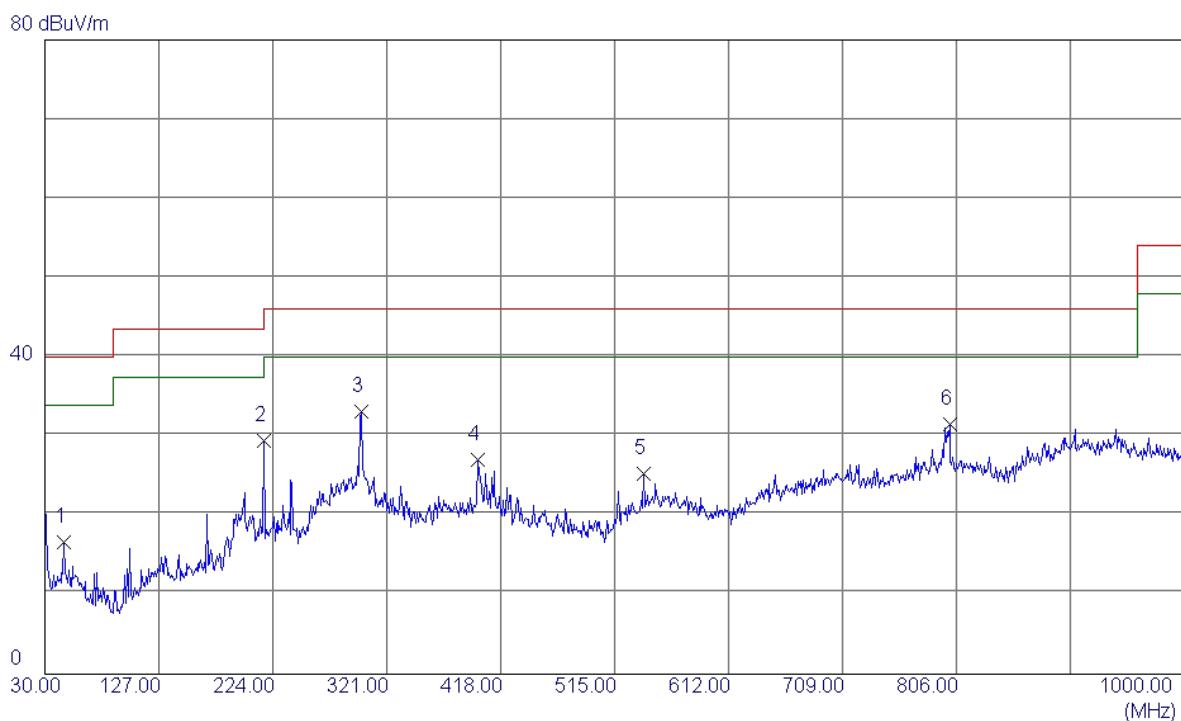
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	76.5600	52.82	-16.42	36.40	40.00	-3.60	Peak	
2	228.8500	50.78	-13.47	37.31	46.00	-8.69	Peak	
3	304.5100	42.74	-10.26	32.48	46.00	-13.52	Peak	
4	380.1700	39.98	-9.14	30.84	46.00	-15.16	Peak	
5	456.8000	40.24	-8.23	32.01	46.00	-13.99	Peak	
6	764.2900	34.79	-1.33	33.46	46.00	-12.54	Peak	

Test Mode: TX B MODE CHANNEL 01

## Horizontal

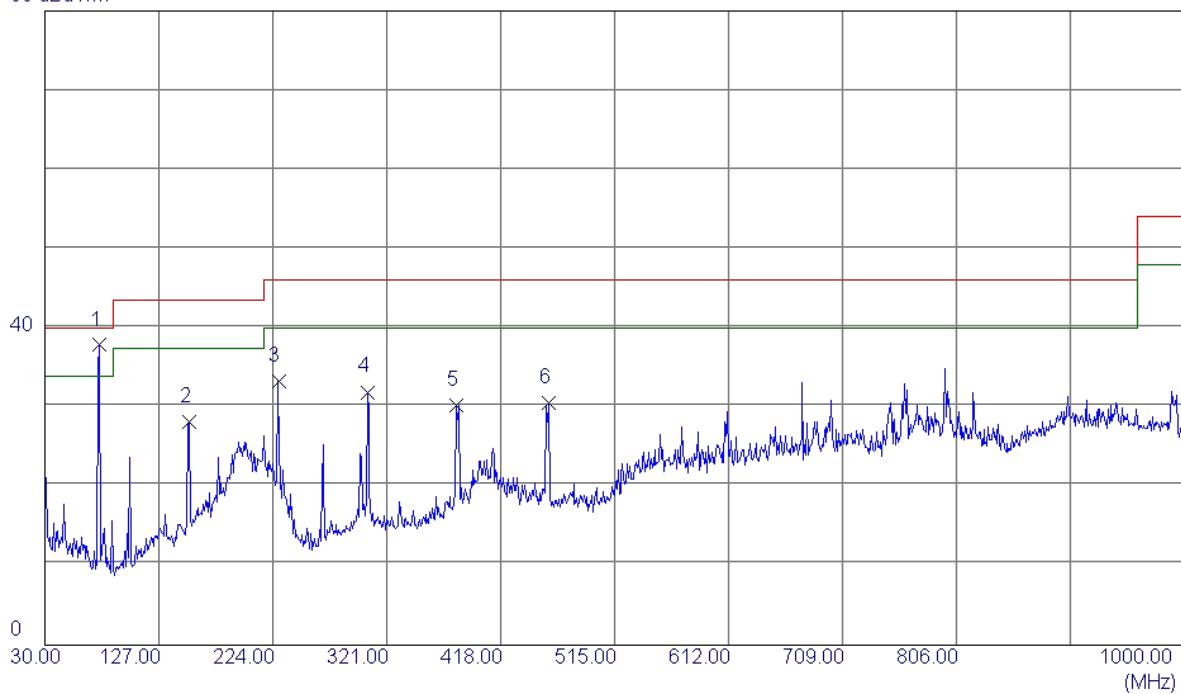


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	46.4900	29.29	-12.59	16.70	40.00	-23.30	Peak	
2	216.2400	43.83	-14.40	29.43	46.00	-16.57	Peak	
3 *	299.6600	43.33	-10.20	33.13	46.00	-12.87	Peak	
4	398.6000	34.93	-7.88	27.05	46.00	-18.95	Peak	
5	540.2199	30.84	-5.55	25.29	46.00	-20.71	Peak	
6	800.1800	31.20	0.25	31.45	46.00	-14.55	Peak	

Test Mode: TX B MODE CHANNEL 06

## Vertical

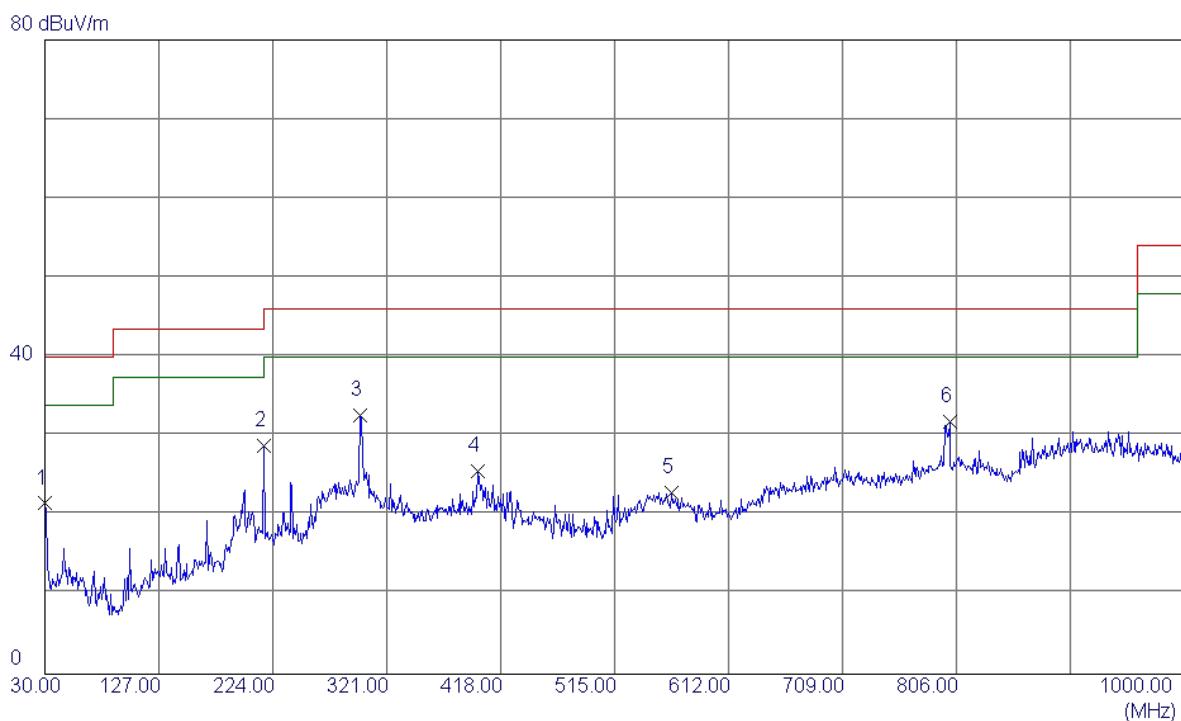
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	76.5600	54.26	-16.42	37.84	40.00	-2.16	Peak	
2	153.1900	40.92	-12.69	28.23	43.50	-15.27	Peak	
3	228.8500	46.69	-13.47	33.22	46.00	-12.78	Peak	
4	304.5100	42.18	-10.26	31.92	46.00	-14.08	Peak	
5	380.1700	39.38	-9.14	30.24	46.00	-15.76	Peak	
6	458.7400	38.90	-8.30	30.60	46.00	-15.40	Peak	

Test Mode: TX B MODE CHANNEL 06

## Horizontal

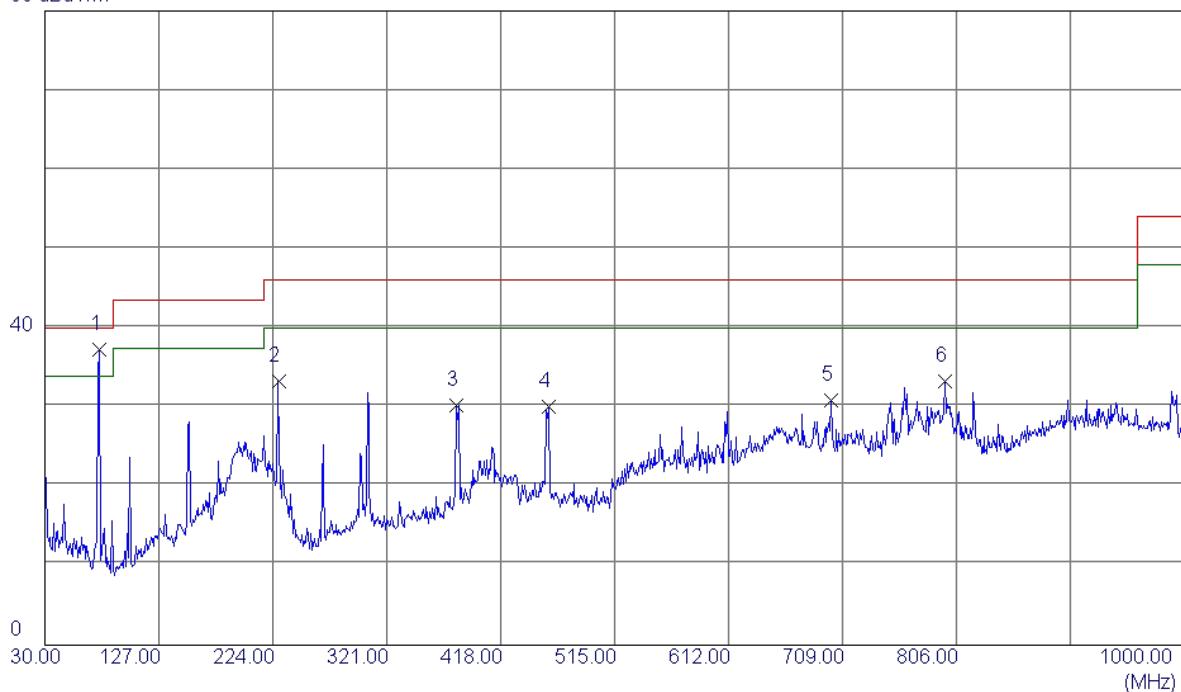


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.0000	35.55	-14.03	21.52	40.00	-18.48	Peak	
2	216.2400	43.22	-14.40	28.82	46.00	-17.18	Peak	
3 *	298.6900	42.90	-10.30	32.60	46.00	-13.40	Peak	
4	398.6000	33.47	-7.88	25.59	46.00	-20.41	Peak	
5	563.5000	28.17	-5.22	22.95	46.00	-23.05	Peak	
6	800.1800	31.66	0.25	31.91	46.00	-14.09	Peak	

Test Mode: TX B MODE CHANNEL 11

## Vertical

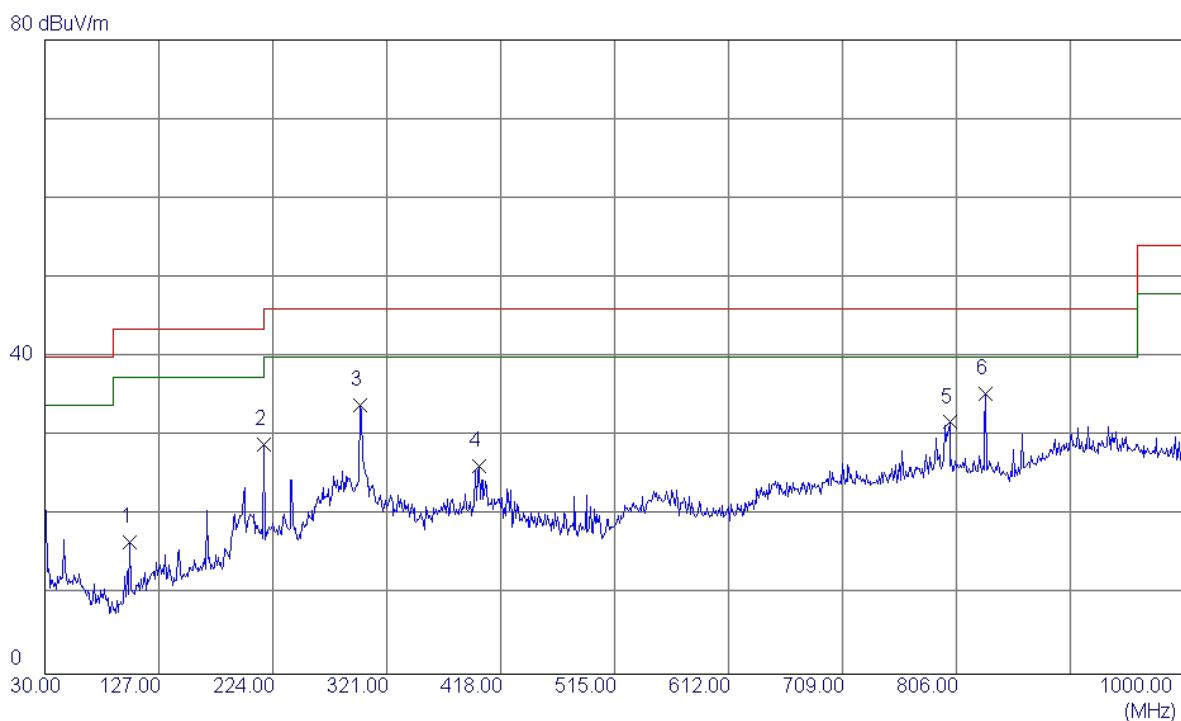
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	76.5600	53.76	-16.42	37.34	40.00	-2.66	Peak	
2	228.8500	46.69	-13.47	33.22	46.00	-12.78	Peak	
3	380.1700	39.38	-9.14	30.24	46.00	-15.76	Peak	
4	458.7400	38.40	-8.30	30.10	46.00	-15.90	Peak	
5	699.3000	32.97	-2.13	30.84	46.00	-15.16	Peak	
6	796.3000	33.22	0.09	33.31	46.00	-12.69	Peak	

Test Mode: TX B MODE CHANNEL 11

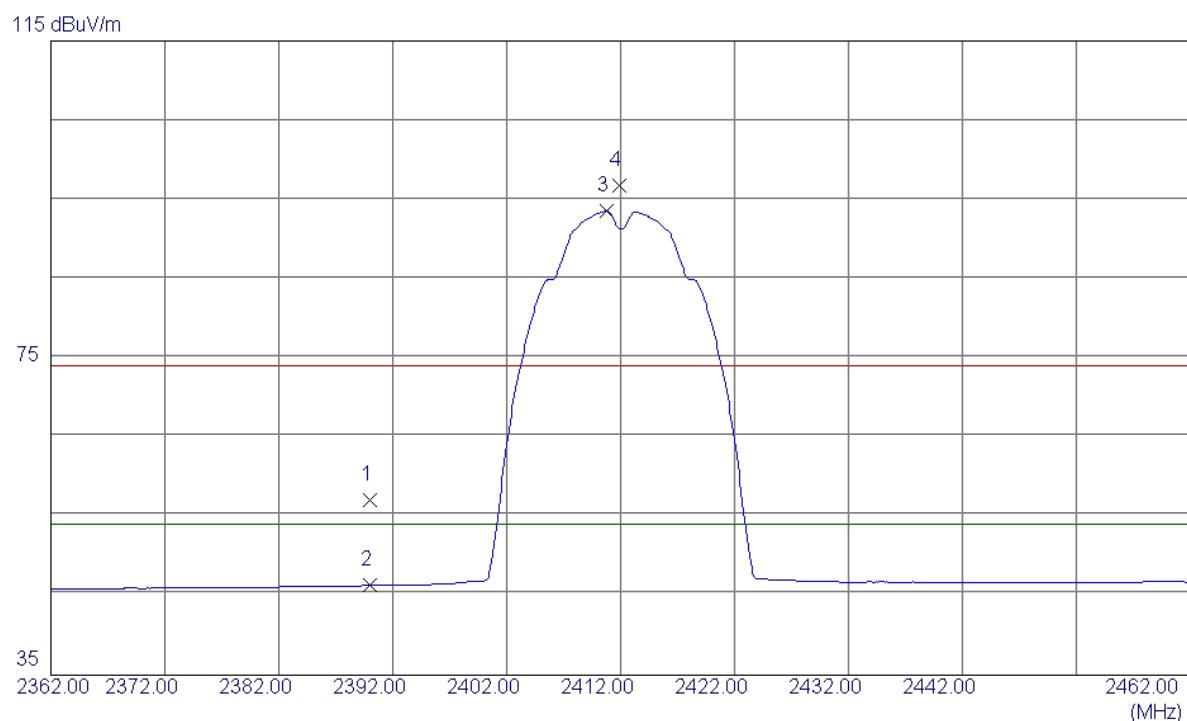
## Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	101.7800	31.97	-15.32	16.65	43.50	-26.85	Peak	
2	216.2400	43.39	-14.40	28.99	46.00	-17.01	Peak	
3	298.6900	44.25	-10.30	33.95	46.00	-12.05	Peak	
4	399.5700	34.01	-7.81	26.20	46.00	-19.80	Peak	
5	800.1800	31.51	0.25	31.76	46.00	-14.24	Peak	
6 *	831.2199	36.02	-0.68	35.34	46.00	-10.66	Peak	

**ATTACHMENTD -RADIATED EMISSION (ABOVE 1000MHZ)**

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

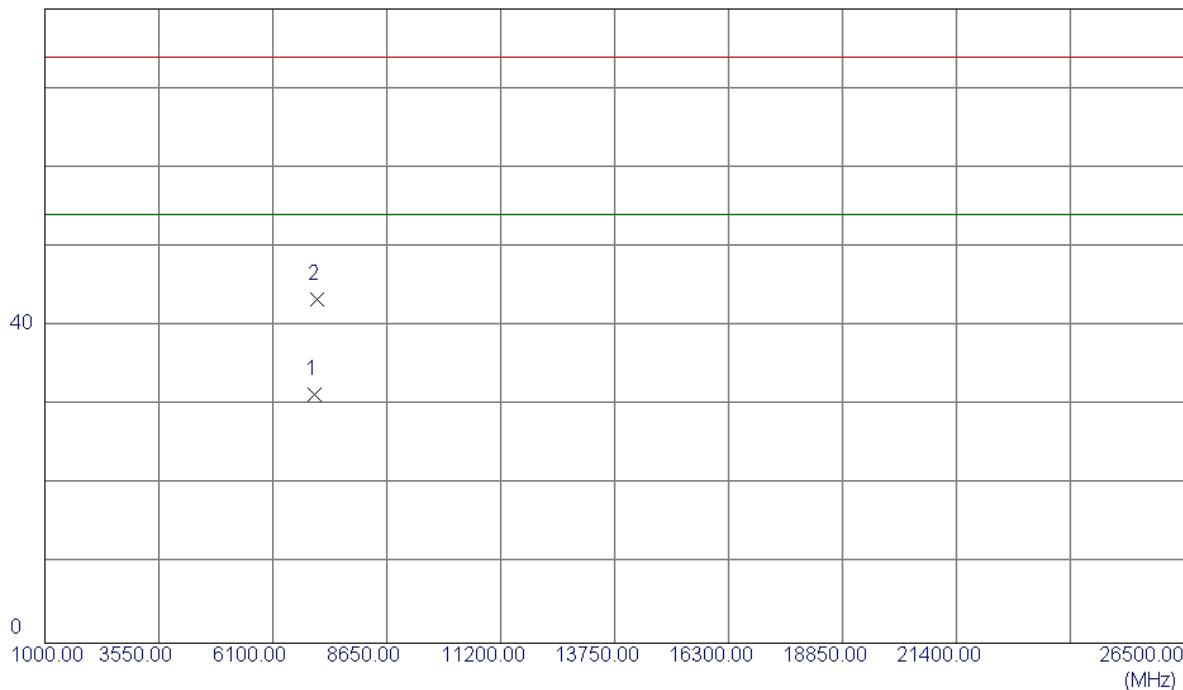
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.01	33.01	57.02	74.00	-16.98	Peak	
2	2390.0000	13.30	33.01	46.31	54.00	-7.69	Avg	
3 *	2410.8000	60.48	33.10	93.58	54.00	39.58	Avg	No Limit
4	2411.9000	63.64	33.10	96.74	74.00	22.74	Peak	No Limit

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

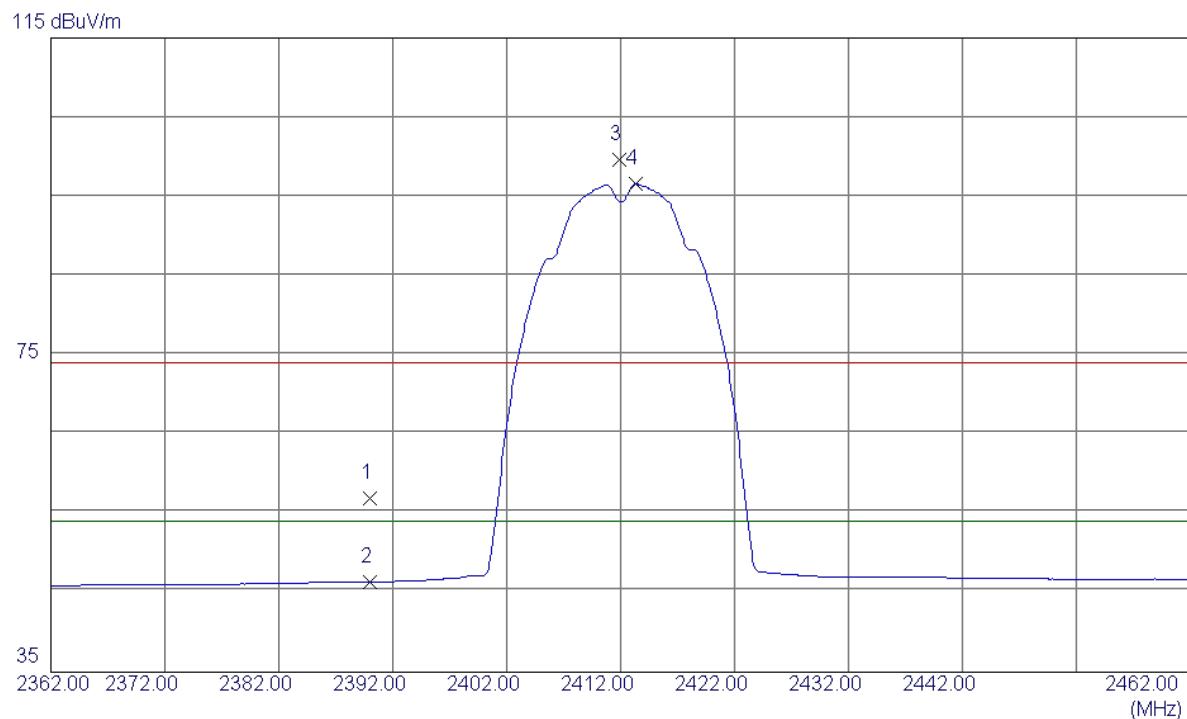
**Vertical**

80 dBuV/m



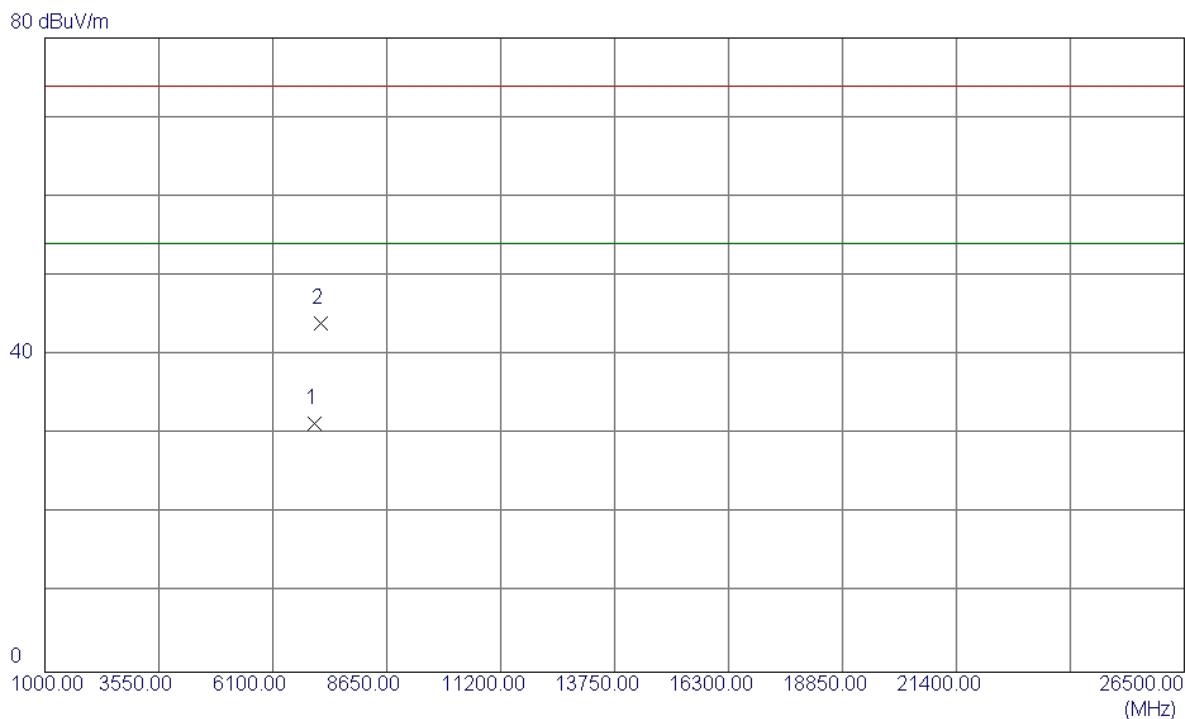
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7033.0000	20.57	10.82	31.39	54.00	-22.61	AVG	
2	7084.5000	32.37	10.92	43.29	74.00	-30.71	Peak	

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

**Horizontal**

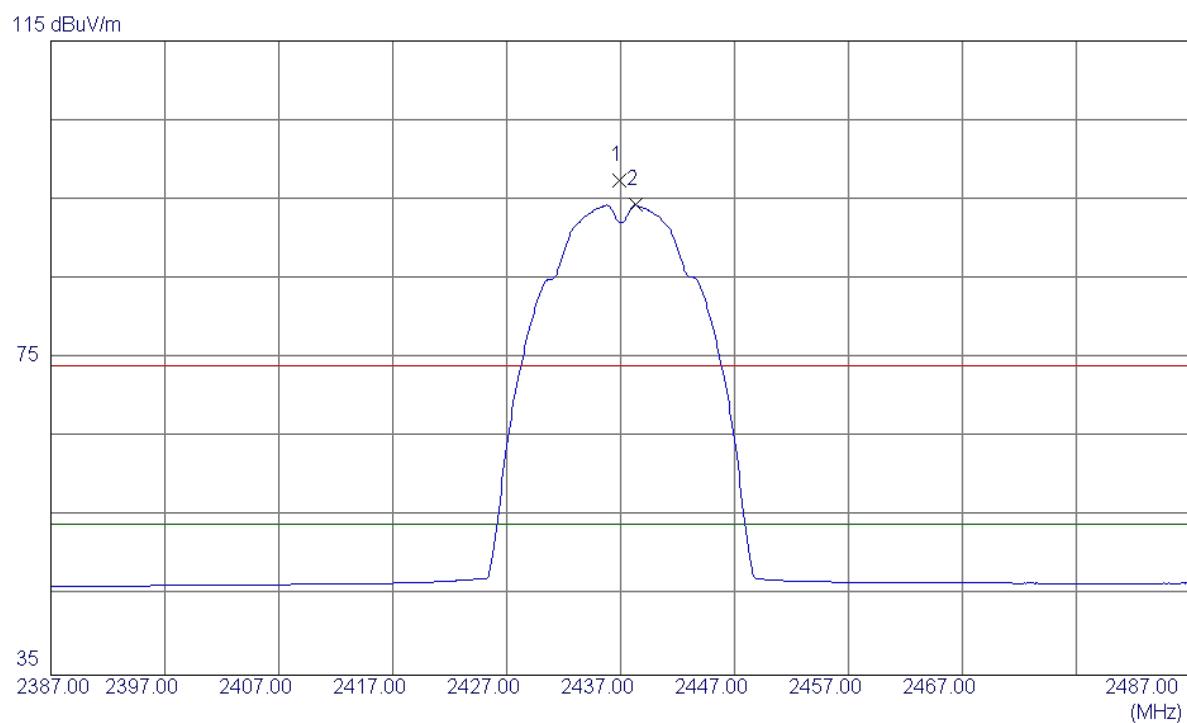
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.98	33.01	56.99	74.00	-17.01	Peak	
2	2390.0000	13.39	33.01	46.40	54.00	-7.60	Avg	
3	2411.9000	66.55	33.10	99.65	74.00	25.65	Peak	No Limit
4 *	2413.3000	63.49	33.11	96.60	54.00	42.60	Avg	No Limit

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

**Horizontal**

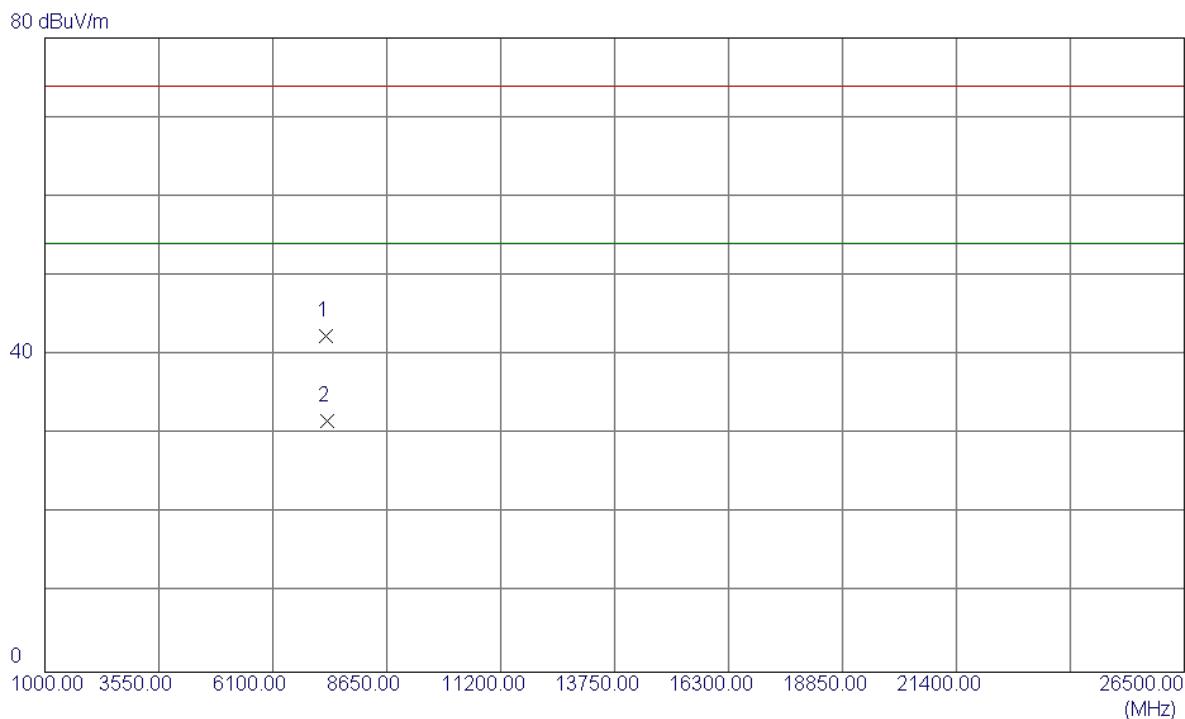
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
							Detector	Comment
1 *	7034.0000	20.54	10.82	31.36	54.00	-22.64	AVG	
2	7169.0000	32.98	11.09	44.07	74.00	-29.93	Peak	

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

**Vertical**

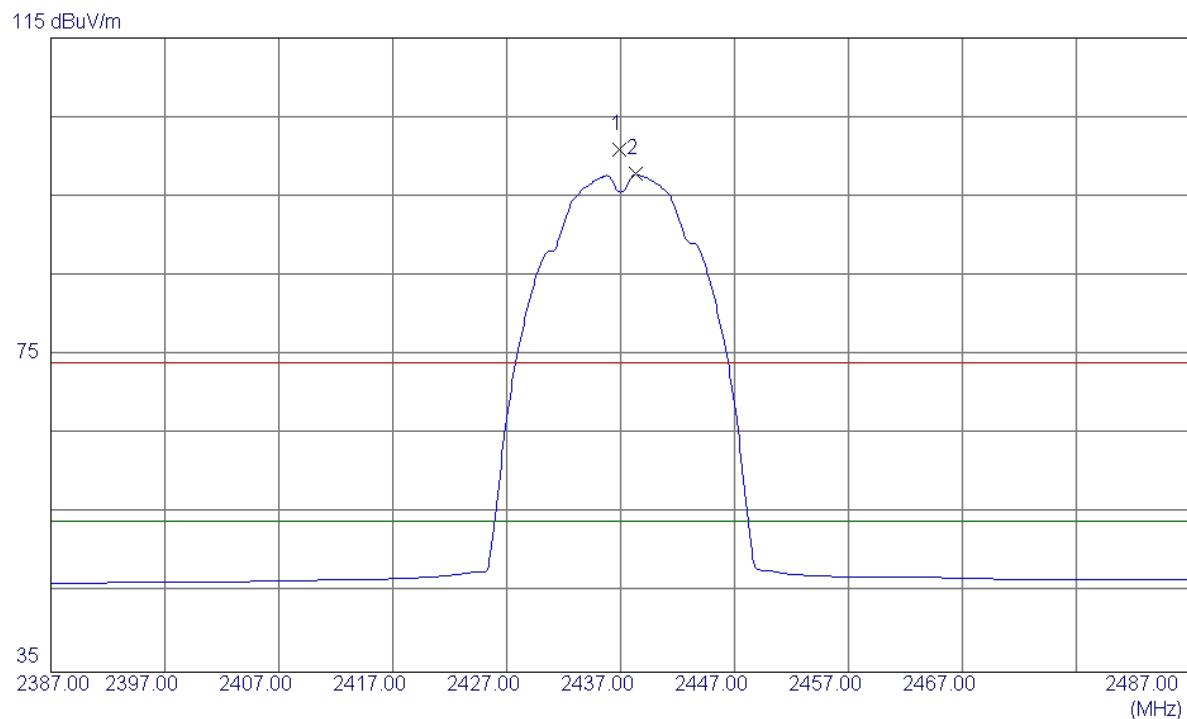
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.9000	64.25	33.21	97.46	74.00	23.46	Peak	No Limit
2 *	2438.3000	61.09	33.21	94.30	54.00	40.30	AVG	No Limit

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

**Vertical**

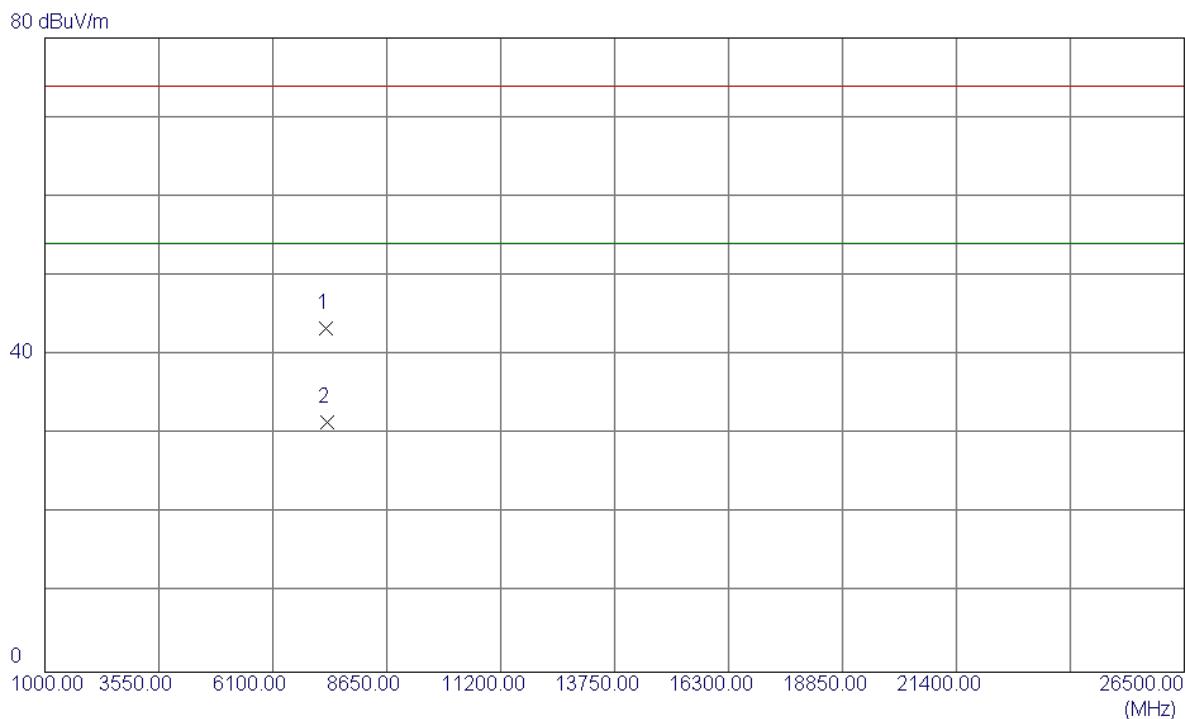
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7303.1200	31.10	11.36	42.46	74.00	-31.54	Peak	
2 *	7310.2730	20.27	11.37	31.64	54.00	-22.36	AVG	

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

**Horizontal**

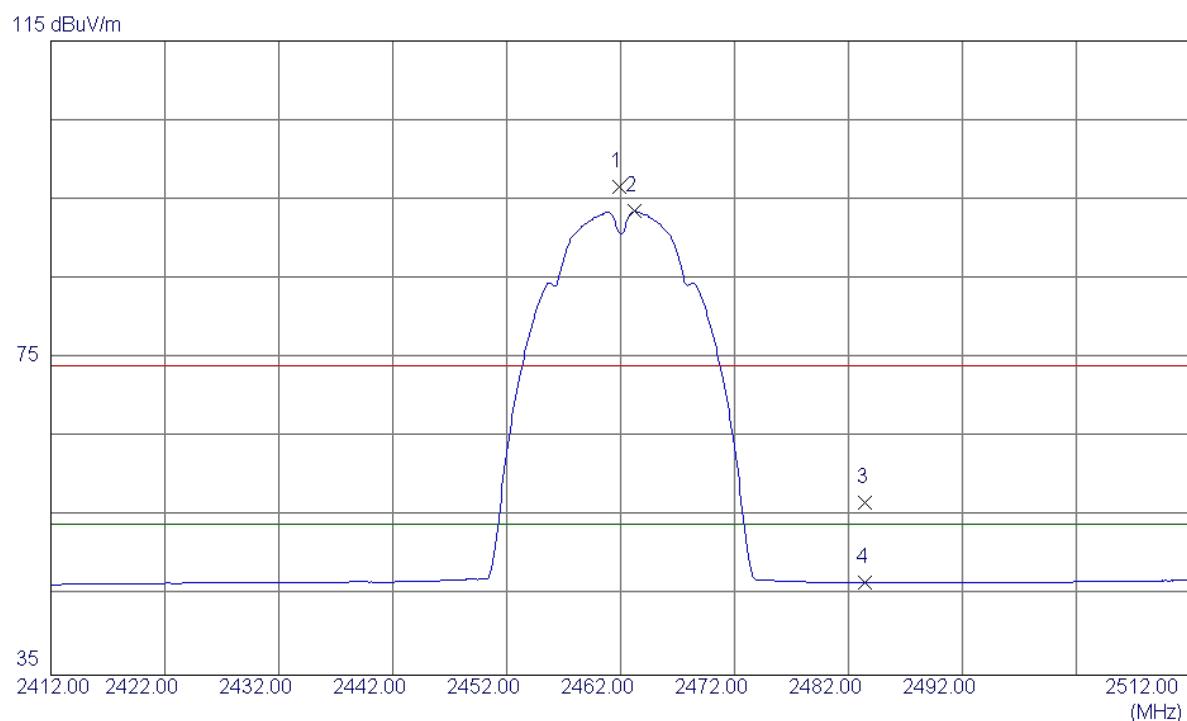
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.9000	67.64	33.21	100.85	74.00	26.85	Peak	No Limit
2 *	2438.3000	64.60	33.21	97.81	54.00	43.81	Avg	No Limit

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

**Horizontal**

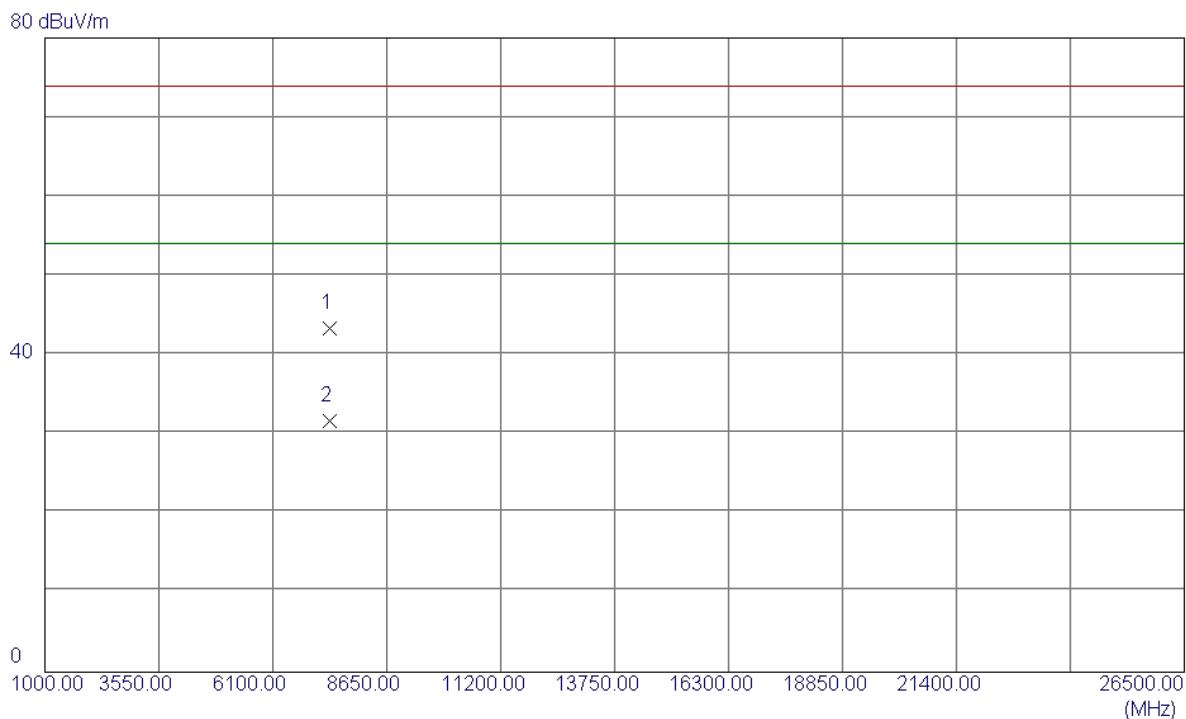
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7303.5500	31.95	11.36	43.31	74.00	-30.69	Peak	
2 *	7310.0500	20.17	11.37	31.54	54.00	-22.46	AVG	

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

**Vertical**

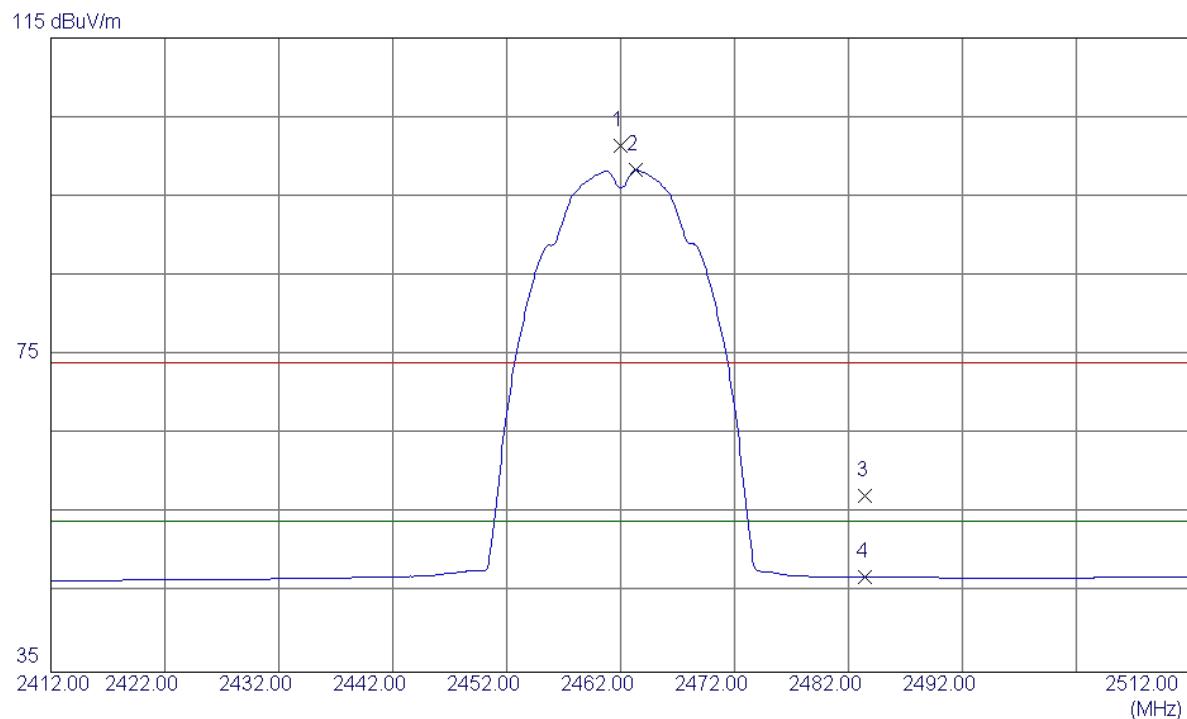
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.9000	63.33	33.31	96.64	74.00	22.64	Peak	No Limit
2 *	2463.2000	60.19	33.32	93.51	54.00	39.51	Avg	No Limit
3	2483.5000	23.33	33.40	56.73	74.00	-17.27	Peak	
4	2483.5000	13.27	33.40	46.67	54.00	-7.33	Avg	

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

**Vertical**

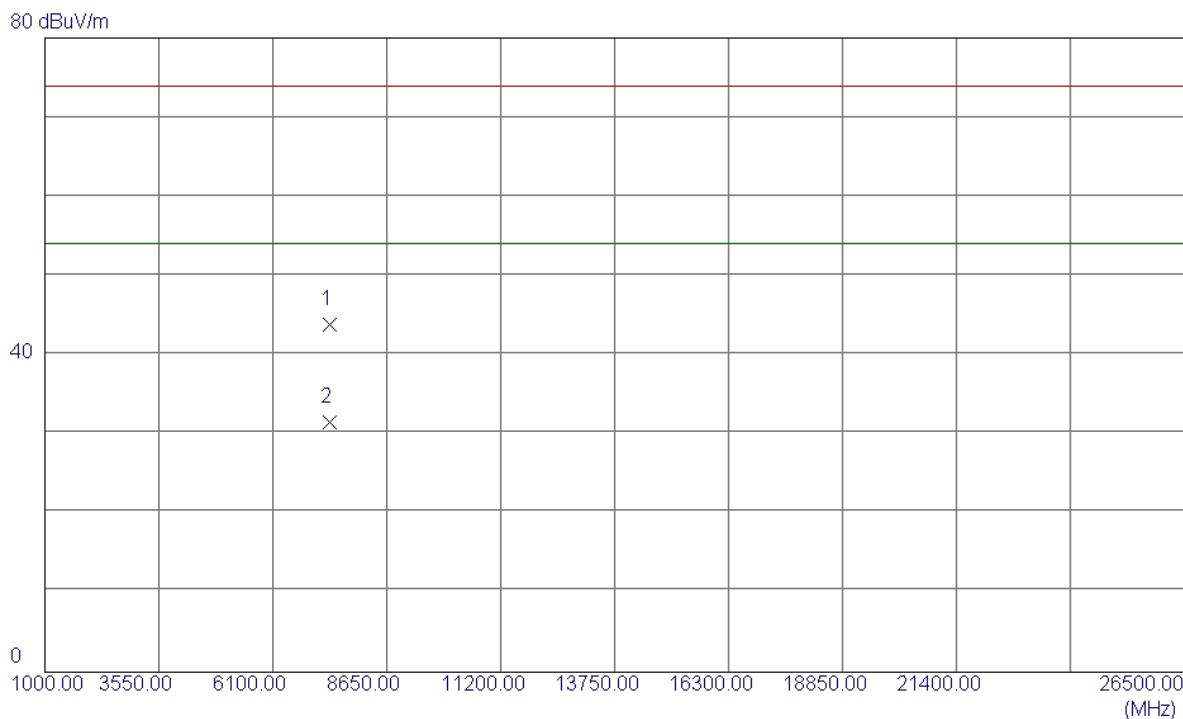
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7370.1800	31.88	11.49	43.37	74.00	-30.63	Peak	
2 *	7380.9140	20.13	11.51	31.64	54.00	-22.36	AVG	

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

**Horizontal**

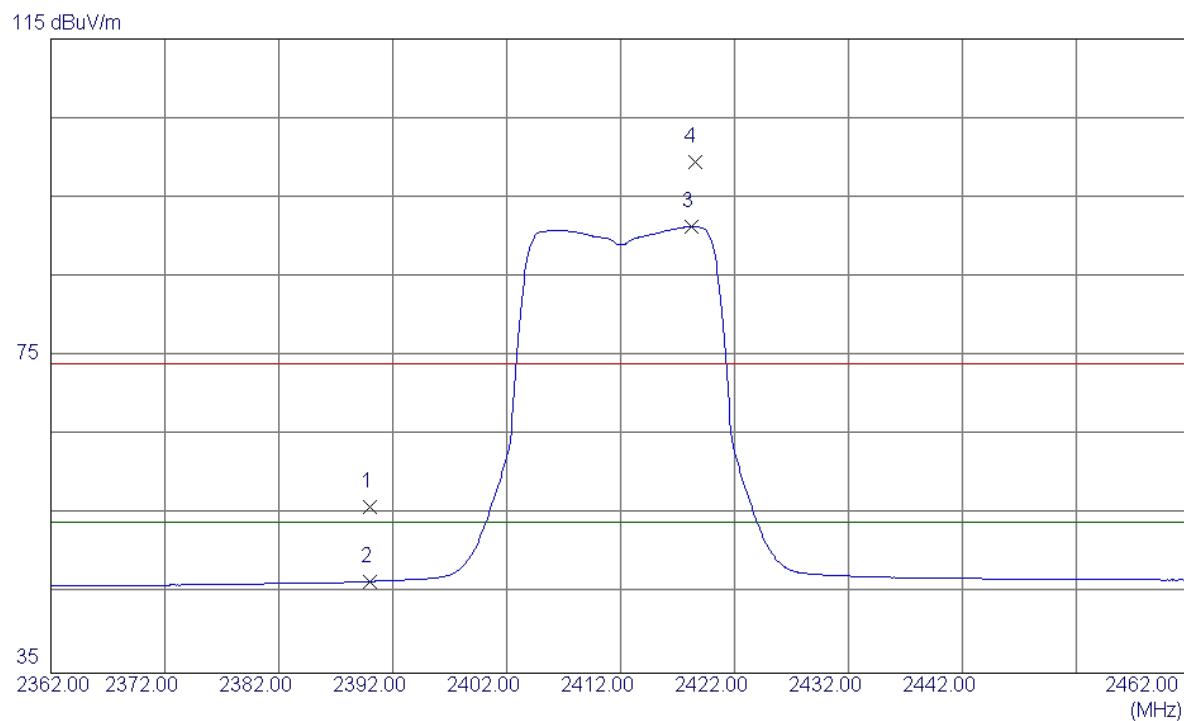
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	2462.0000	68.02	33.31	101.33	74.00	27.33	Peak
2 *	2463.3000	65.05	33.32	98.37	54.00	44.37	AVG
3	2483.5000	23.77	33.40	57.17	74.00	-16.83	Peak
4	2483.5000	13.56	33.40	46.96	54.00	-7.04	AVG

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7370.0000	32.39	11.49	43.88	74.00	-30.12	Peak	
2 *	7380.7000	20.01	11.51	31.52	54.00	-22.48	AVG	

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

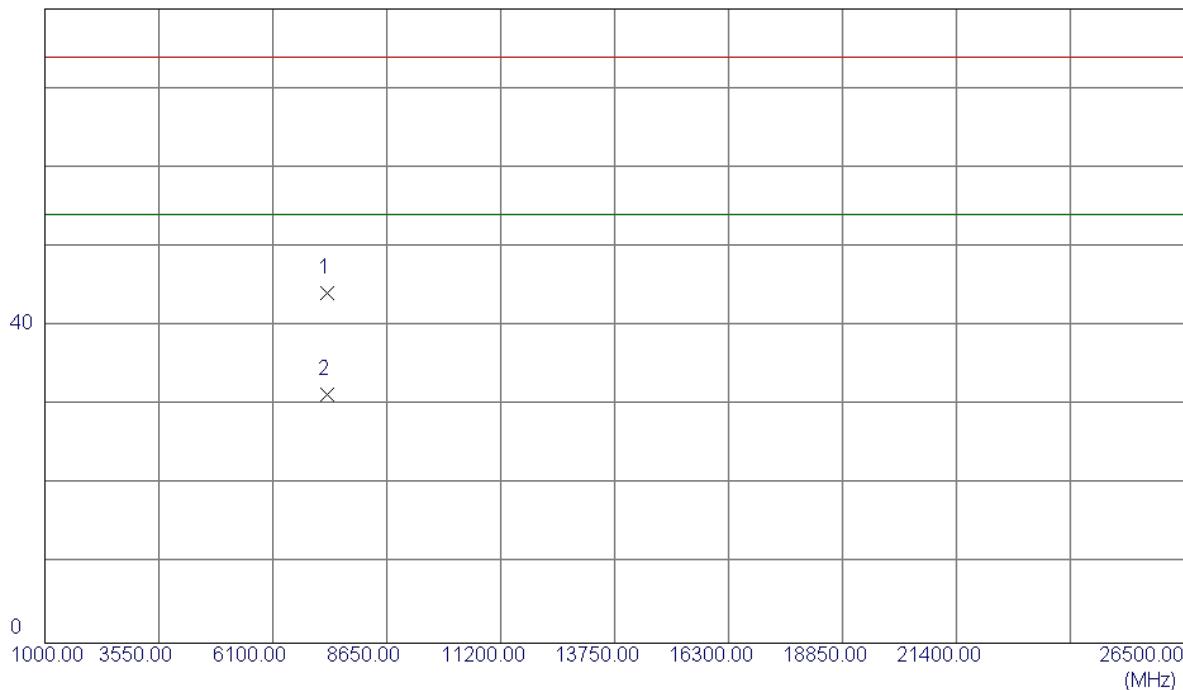
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.96	33.01	55.97	74.00	-18.03	Peak	
2	2390.0000	13.58	33.01	46.59	54.00	-7.41	Avg	
3 *	2418.2000	58.20	33.13	91.33	54.00	37.33	Avg	No Limit
4	2418.5000	66.32	33.13	99.45	74.00	25.45	Peak	No Limit

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

**Vertical**

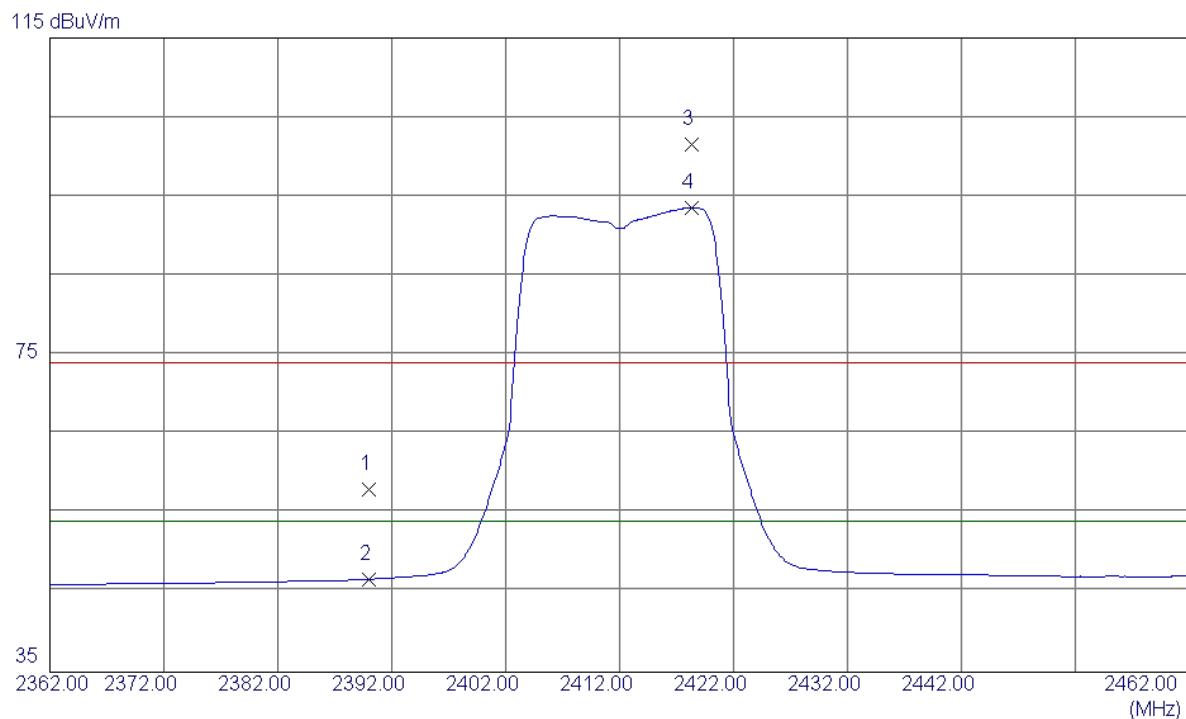
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7316.3870	32.76	11.38	44.14	74.00	-29.86	Peak	
2 *	7319.4720	19.95	11.39	31.34	54.00	-22.66	AVG	

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

### Horizontal

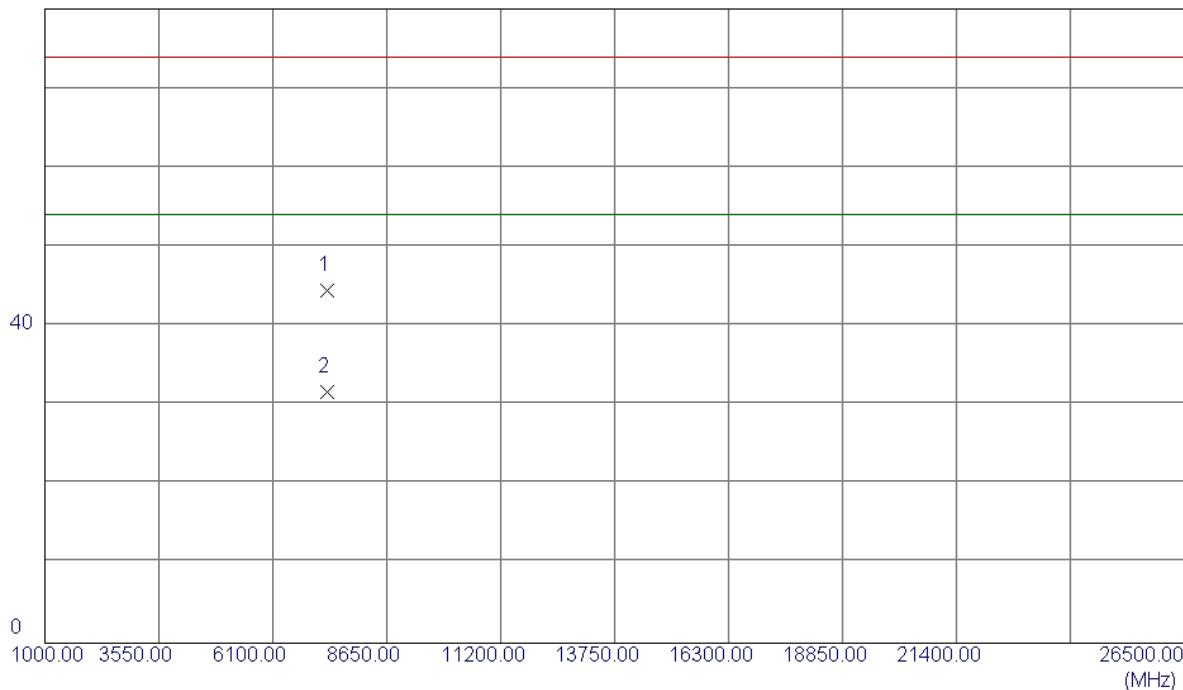


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.09	33.01	58.10	74.00	-15.90	Peak	
2	2390.0000	13.71	33.01	46.72	54.00	-7.28	Avg	
3	2418.3000	68.35	33.13	101.48	74.00	27.48	Peak	No Limit
4 *	2418.3000	60.45	33.13	93.58	54.00	39.58	Avg	No Limit

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

**Horizontal**

80 dBuV/m

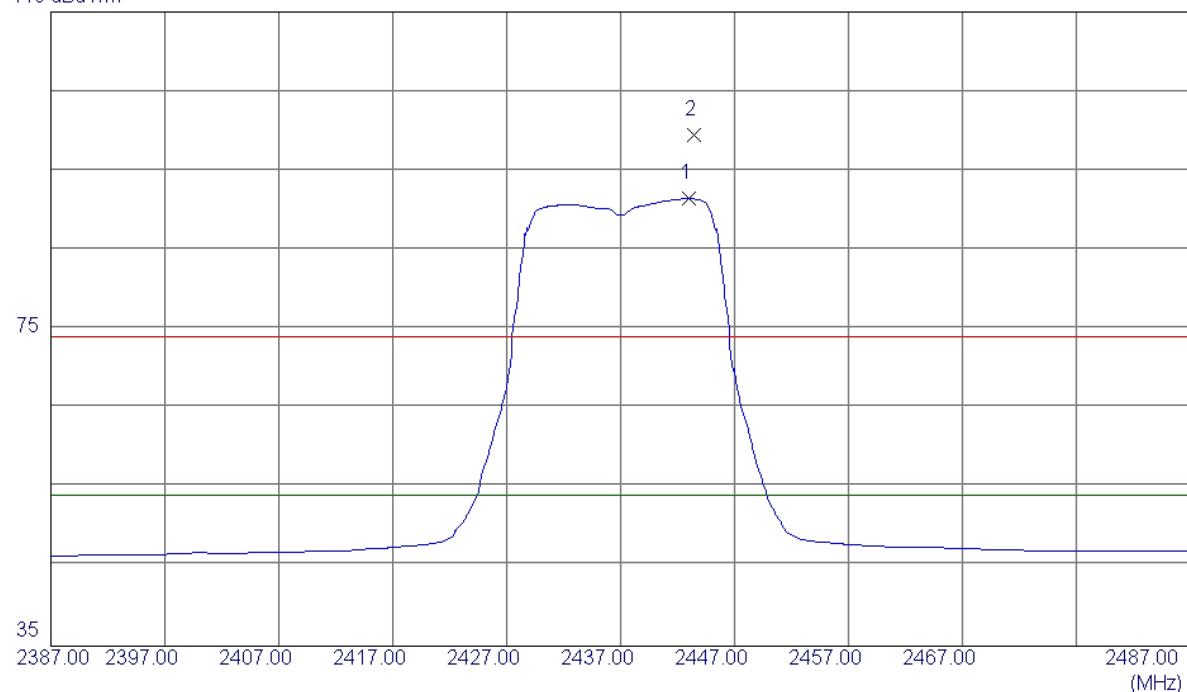


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7316.5800	33.11	11.38	44.49	74.00	-29.51	Peak	
2 *	7319.9600	20.31	11.39	31.70	54.00	-22.30	AVG	

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

**Vertical**

115 dBuV/m

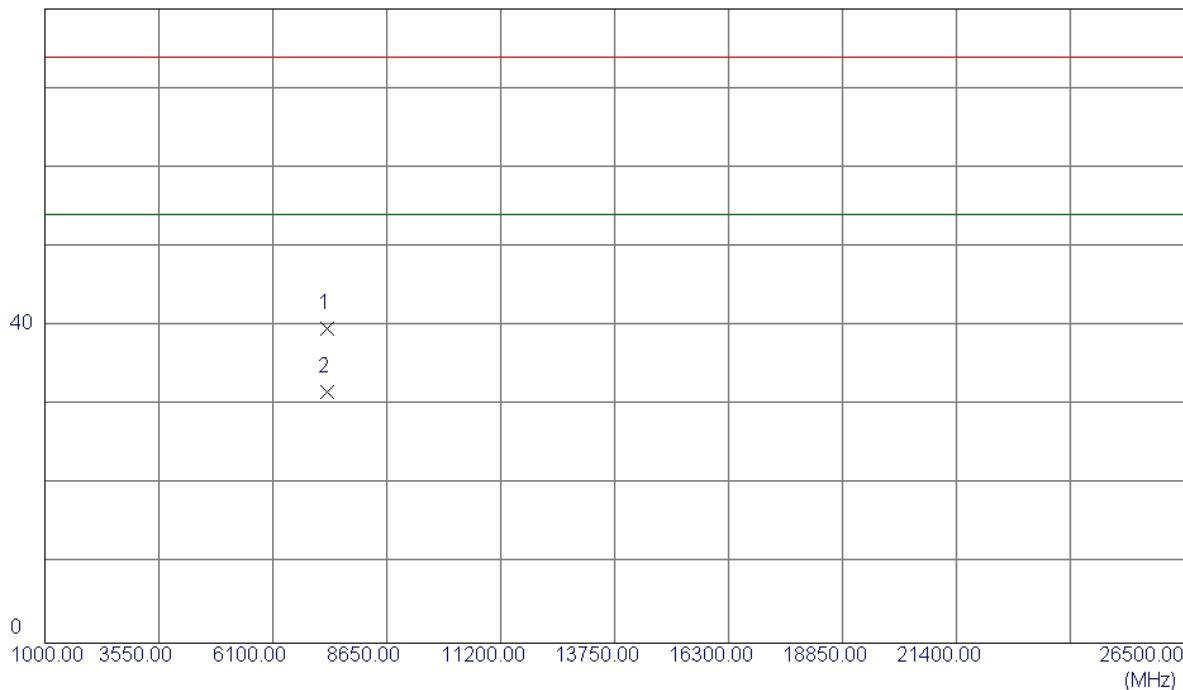


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2443.0000	58.22	33.23	91.45	54.00	37.45	AVG	No Limit
2	2443.4000	66.19	33.23	99.42	74.00	25.42	Peak	No Limit

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

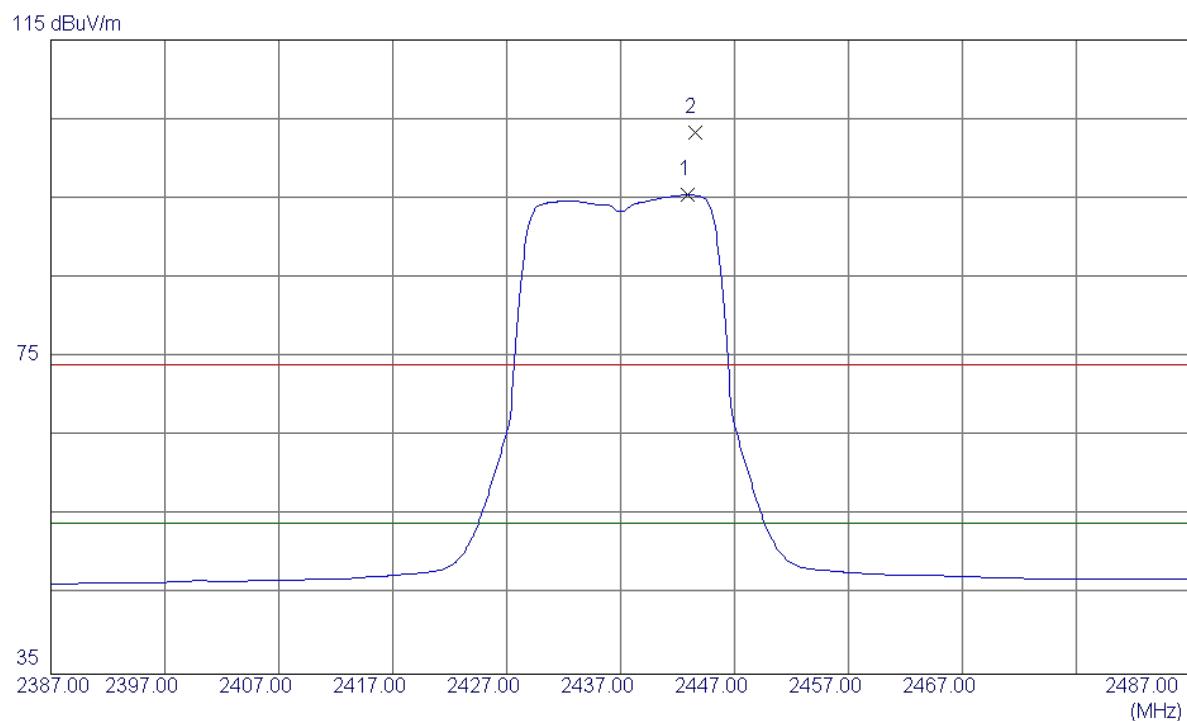
**Vertical**

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7309.2370	28.37	11.37	39.74	74.00	-34.26	Peak	
2 *	7309.5210	20.26	11.37	31.63	54.00	-22.37	AVG	

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

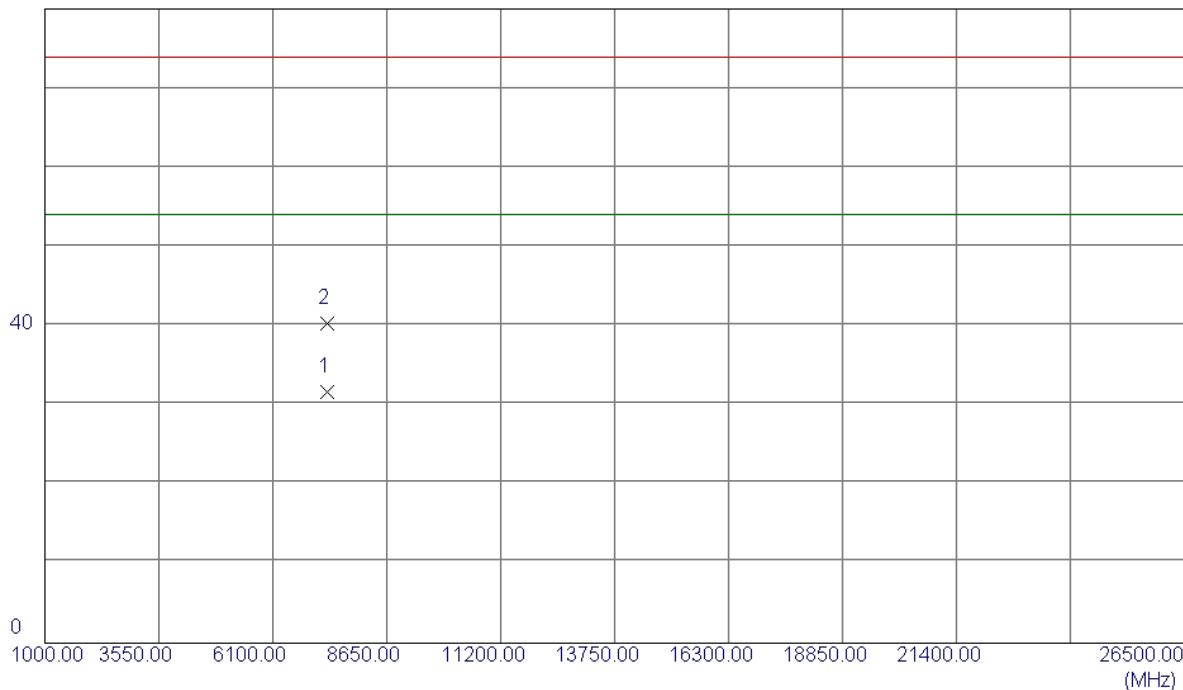
**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2442.9000	62.24	33.23	95.47	54.00	41.47	AVG	No Limit
2	2443.5000	70.04	33.23	103.27	74.00	29.27	Peak	No Limit

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

**Horizontal**

80 dBuV/m

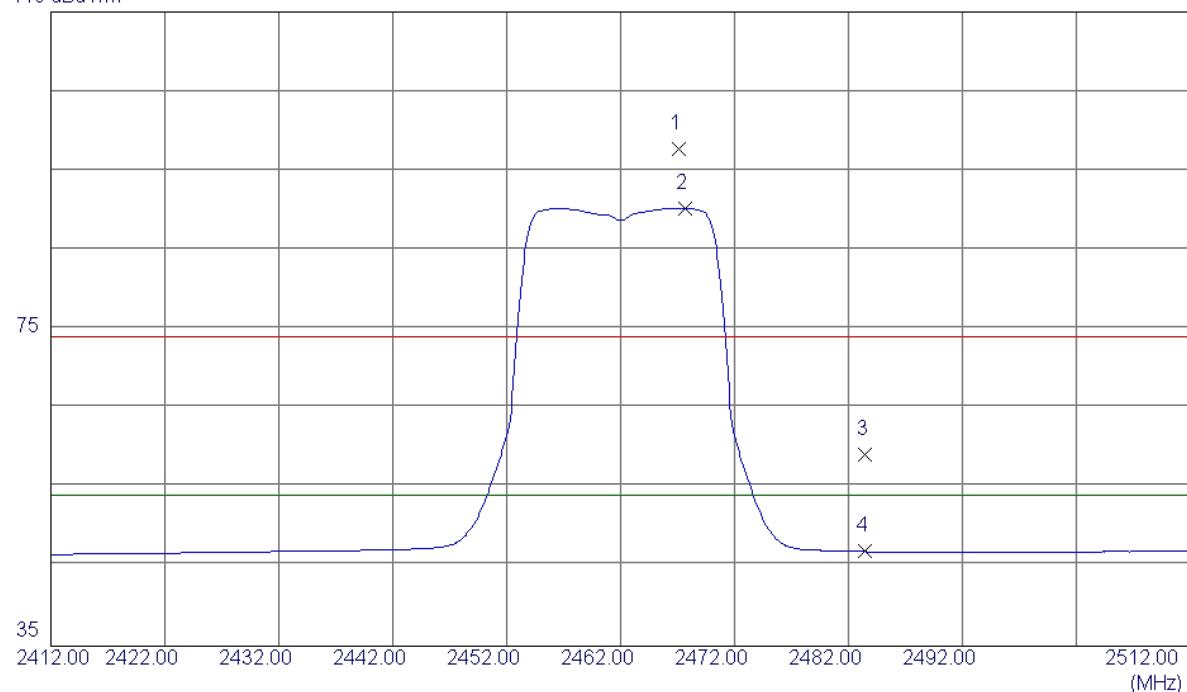


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7309.0200	20.32	11.37	31.69	54.00	-22.31	AVG	
2	7309.6400	28.90	11.37	40.27	74.00	-33.73	Peak	

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

**Vertical**

115 dBuV/m

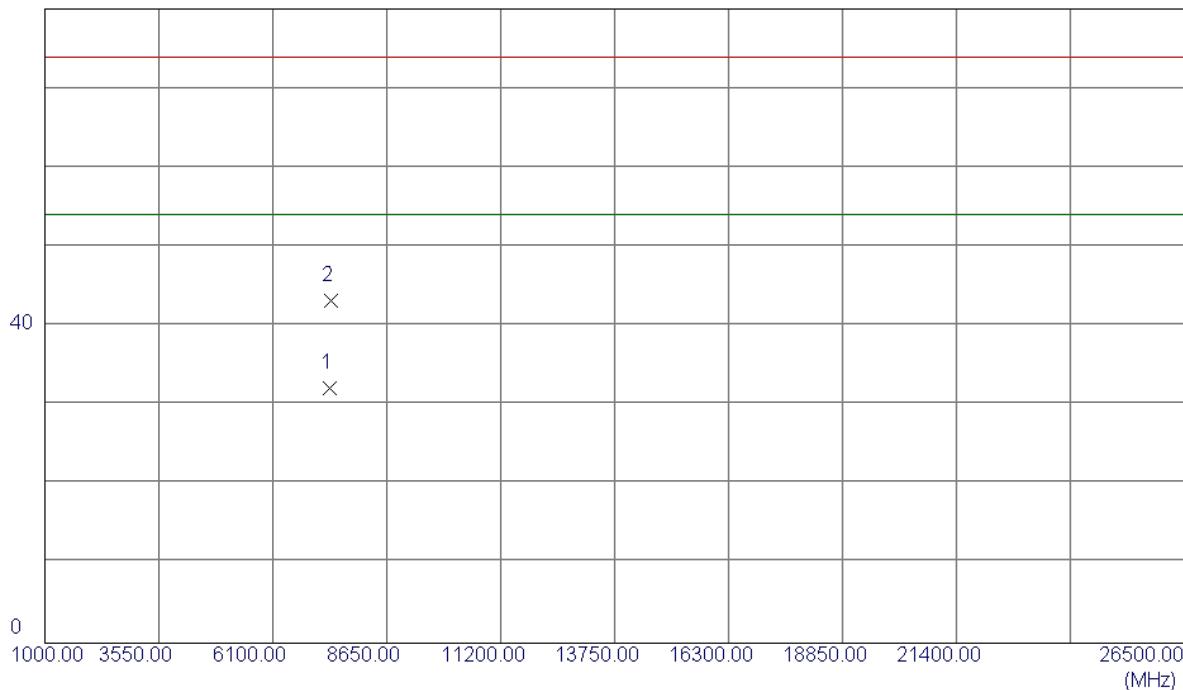


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2467.1000	64.34	33.33	97.67	74.00	23.67	Peak	No Limit
2 *	2467.7000	56.91	33.33	90.24	54.00	36.24	Avg	No Limit
3	2483.5000	25.83	33.40	59.23	74.00	-14.77	Peak	
4	2483.5000	13.53	33.40	46.93	54.00	-7.07	Avg	

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

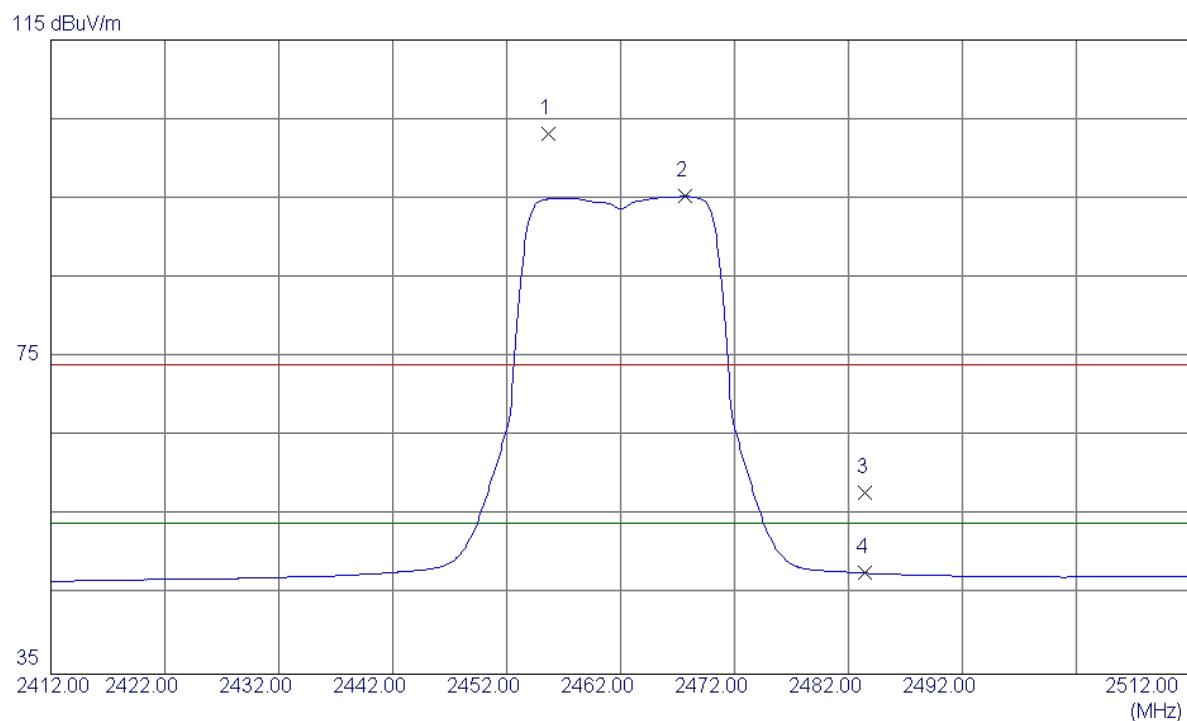
**Vertical**

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7383.6380	20.64	11.52	32.16	54.00	-21.84	AVG	
2	7391.7230	31.68	11.53	43.21	74.00	-30.79	Peak	

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

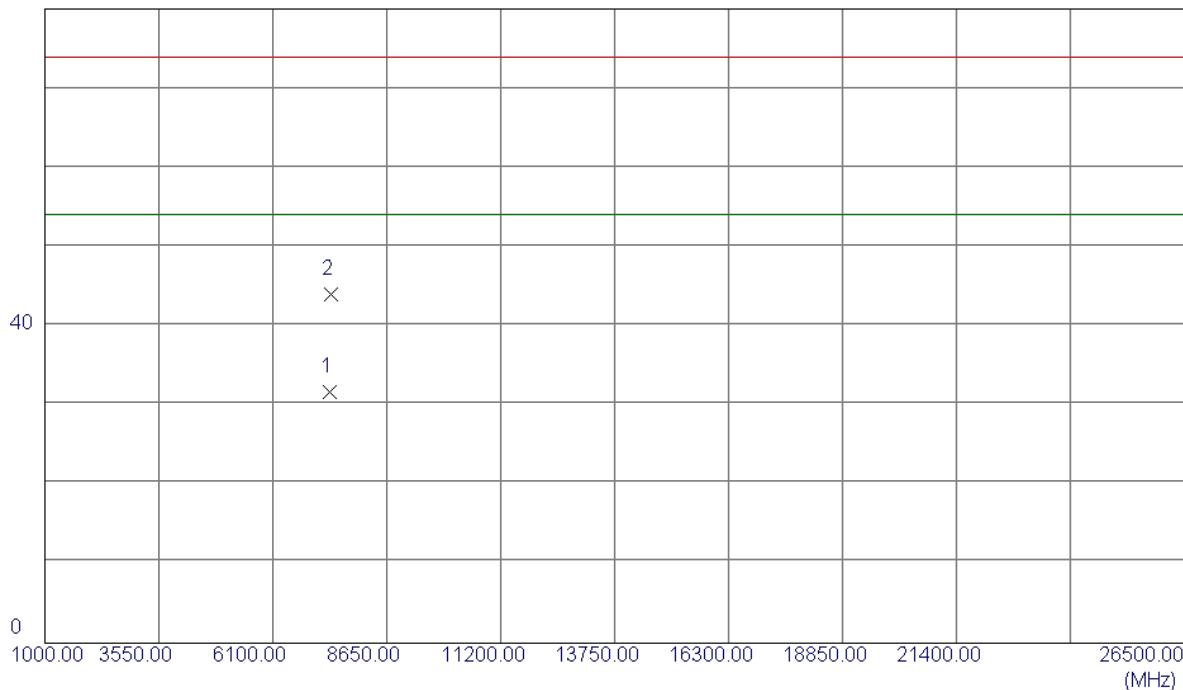
**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.7000	69.89	33.28	103.17	74.00	29.17	Peak	No Limit
2 *	2467.7000	61.93	33.33	95.26	54.00	41.26	Avg	No Limit
3	2483.5000	24.52	33.40	57.92	74.00	-16.08	Peak	
4	2483.5000	14.34	33.40	47.74	54.00	-6.26	Avg	

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

**Horizontal**

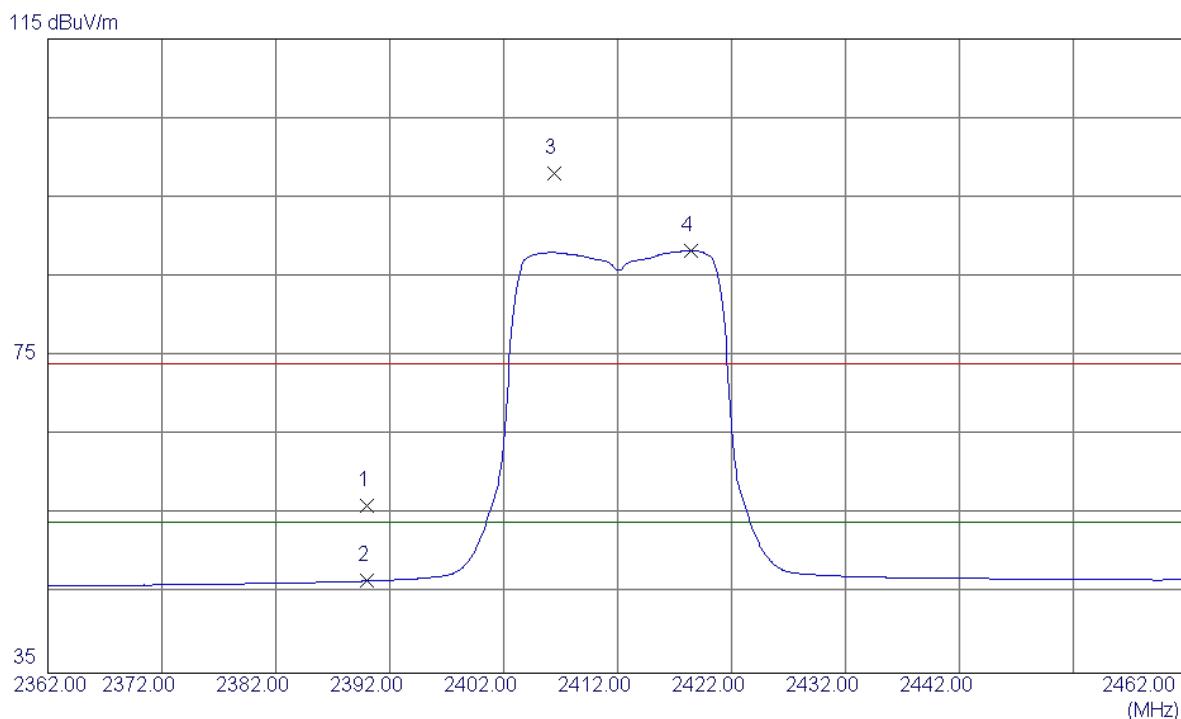
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7383.5400	20.21	11.52	31.73	54.00	-22.27	AVG	
2	7391.5800	32.48	11.53	44.01	74.00	-29.99	Peak	

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

### Vertical

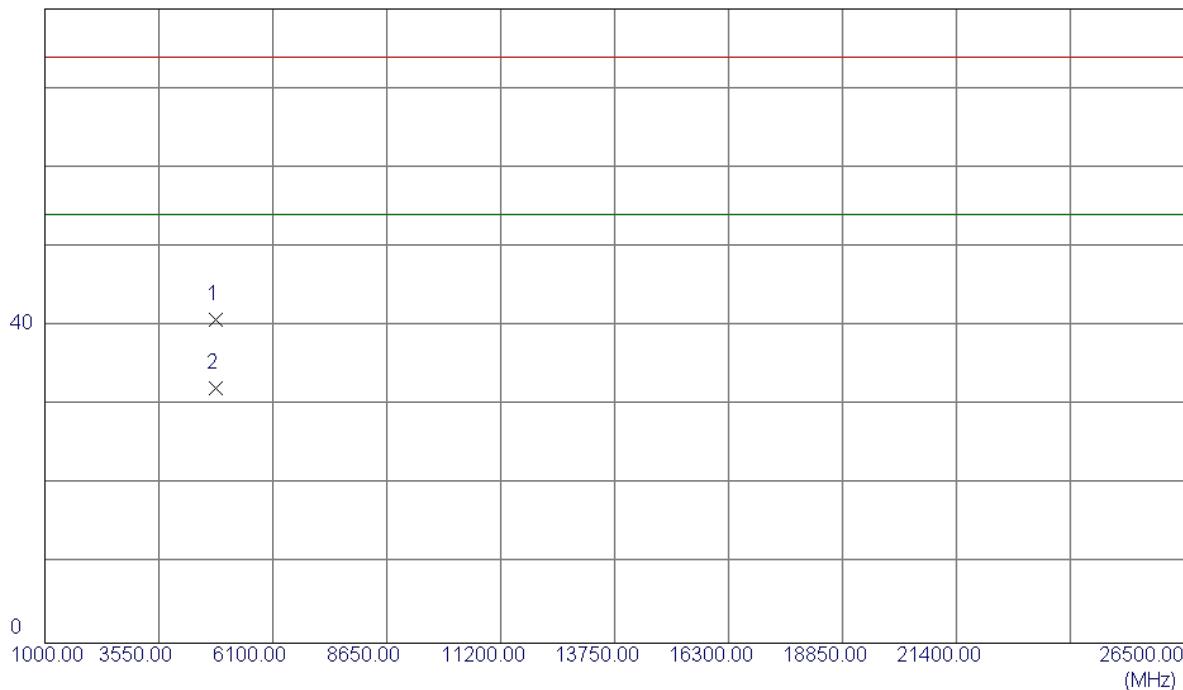


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.09	33.01	56.10	74.00	-17.90	Peak	
2	2390.0000	13.61	33.01	46.62	54.00	-7.38	Avg	
3	2406.4000	65.00	33.08	98.08	74.00	24.08	Peak	No Limit
4 *	2418.4000	55.19	33.13	88.32	54.00	34.32	Avg	No Limit

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

**Vertical**

80 dBuV/m

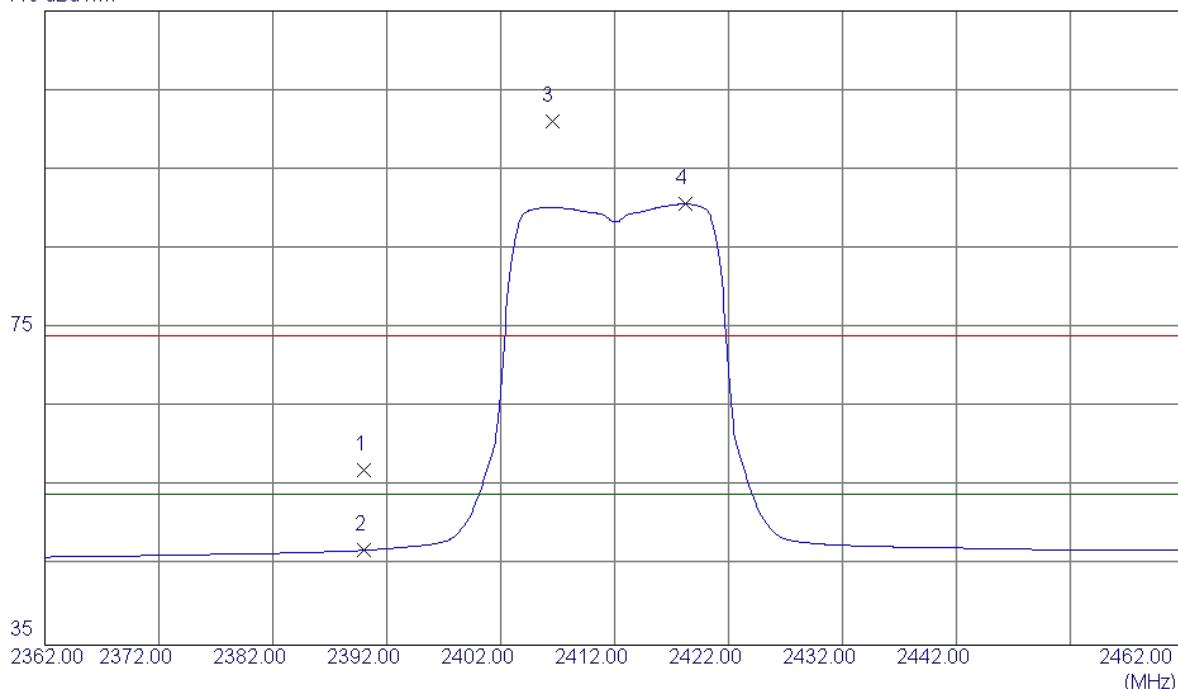


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.2450	36.00	4.85	40.85	74.00	-33.15	Peak	
2 *	4824.2280	27.29	4.85	32.14	54.00	-21.86	AVG	

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

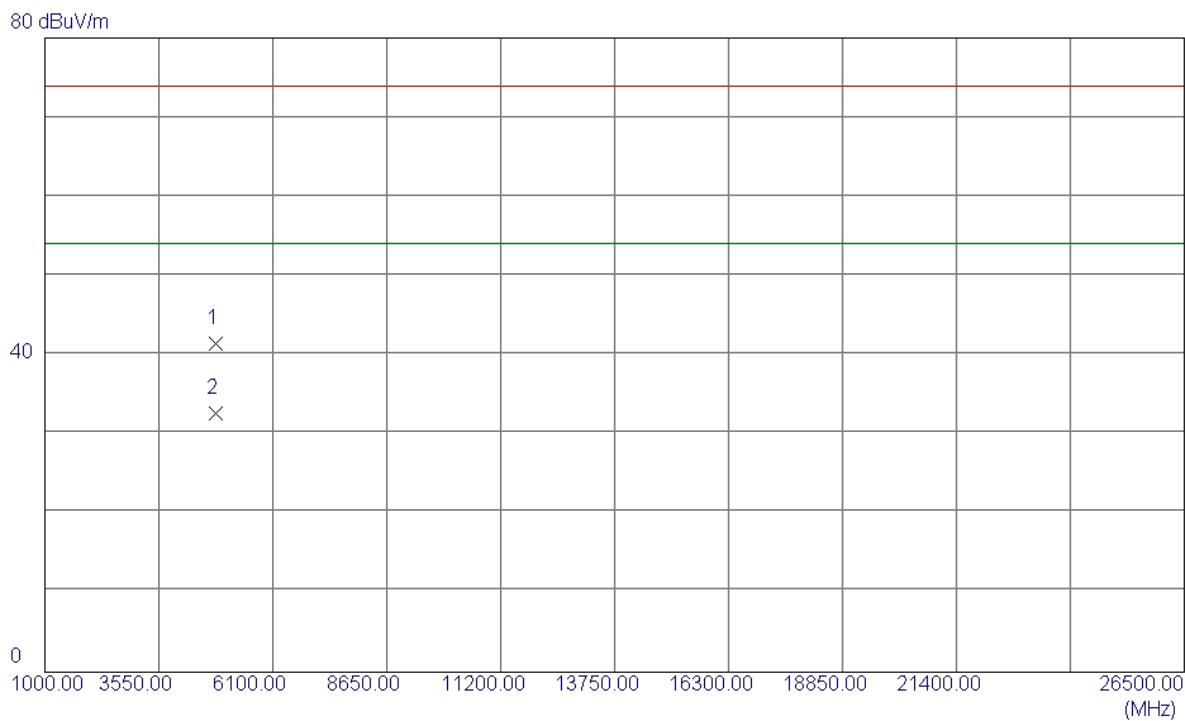
**Horizontal**

115 dBuV/m



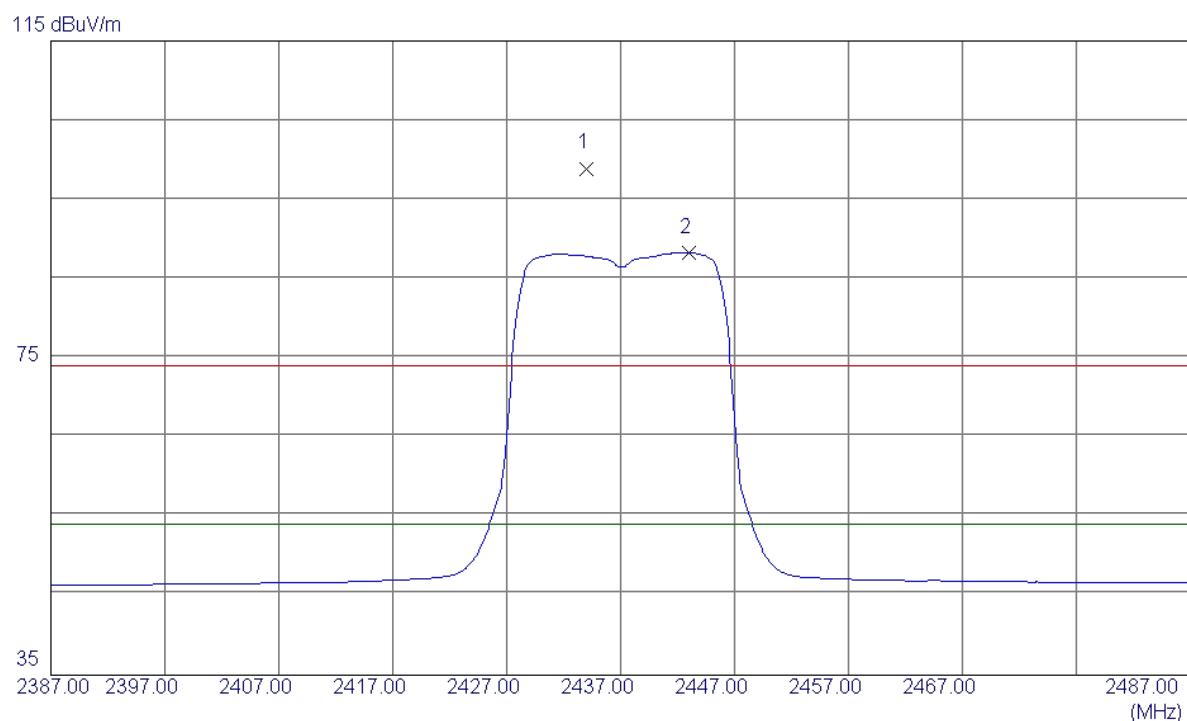
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.13	33.01	57.14	74.00	-16.86	Peak	
2	2390.0000	13.95	33.01	46.96	54.00	-7.04	Avg	
3	2406.5000	68.02	33.08	101.10	74.00	27.10	Peak	No Limit
4 *	2418.2000	57.54	33.13	90.67	54.00	36.67	Avg	No Limit

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8300	36.66	4.85	41.51	74.00	-32.49	Peak	
2 *	4824.0000	27.74	4.85	32.59	54.00	-21.41	AVG	

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

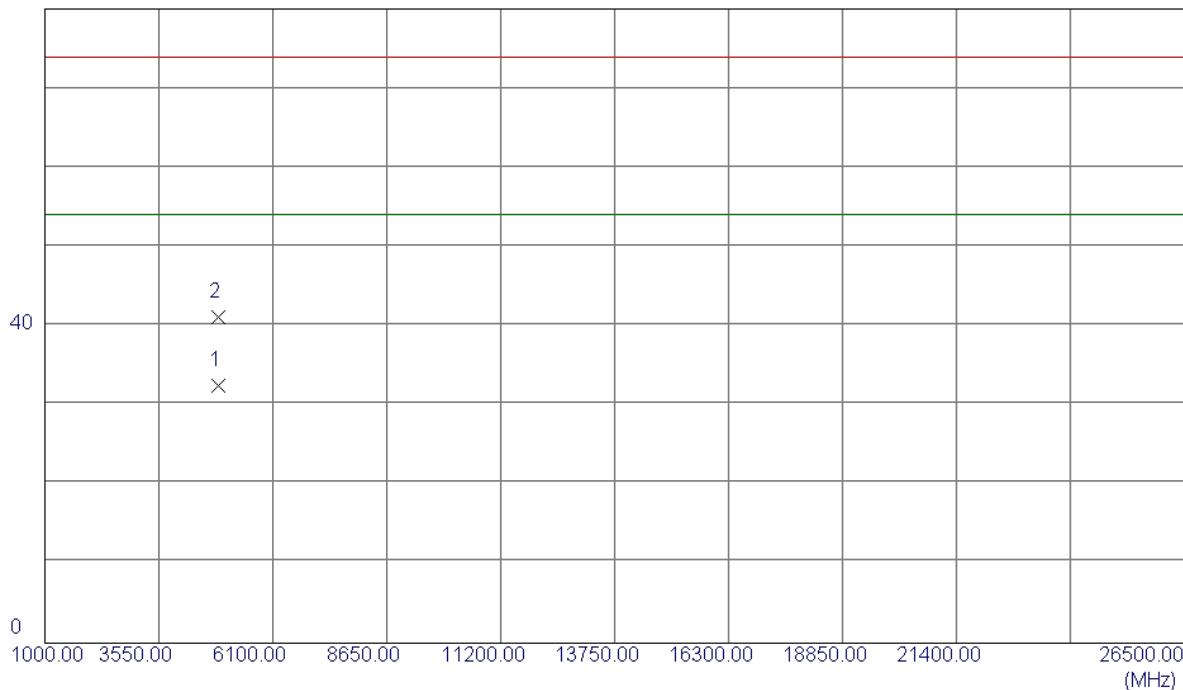
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.0000	65.73	33.19	98.92	74.00	24.92	Peak	No Limit
2 *	2443.0000	55.02	33.23	88.25	54.00	34.25	AVG	No Limit

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

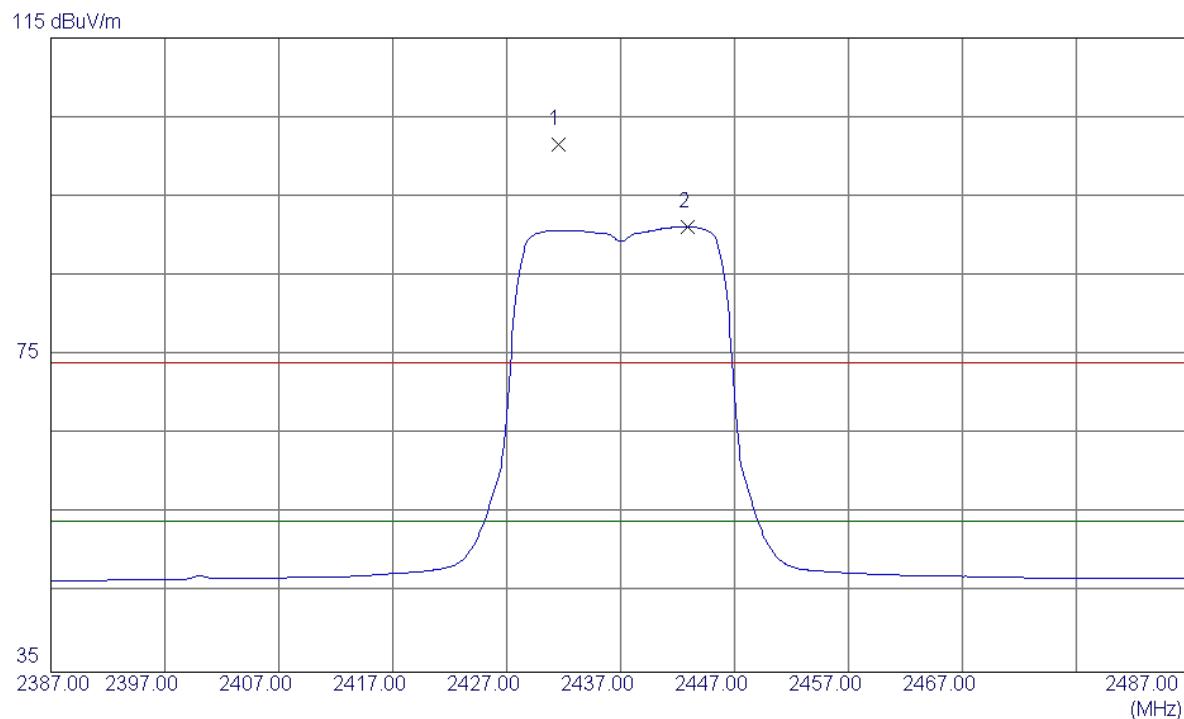
**Vertical**

80 dBuV/m



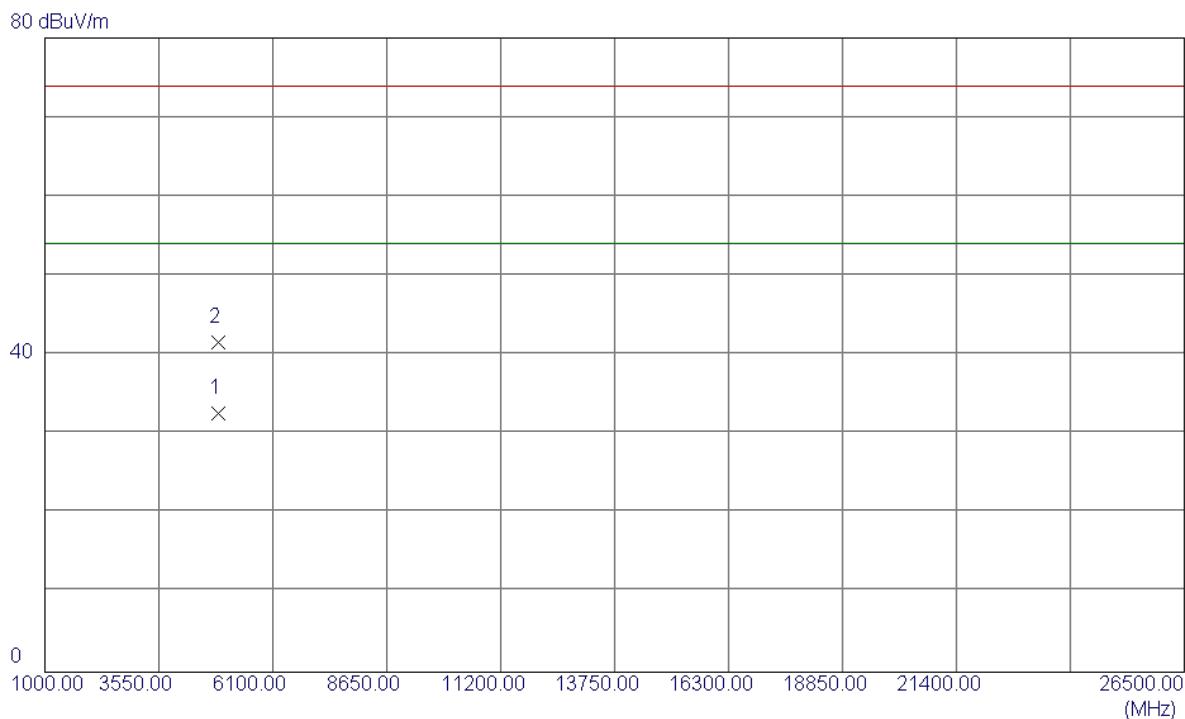
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8270	27.44	5.06	32.50	54.00	-21.50	AVG	
2	4874.5370	36.06	5.07	41.13	74.00	-32.87	Peak	

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.5000	68.41	33.18	101.59	74.00	27.59	Peak	No Limit
2 *	2442.9000	57.98	33.23	91.21	54.00	37.21	AVG	No Limit

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

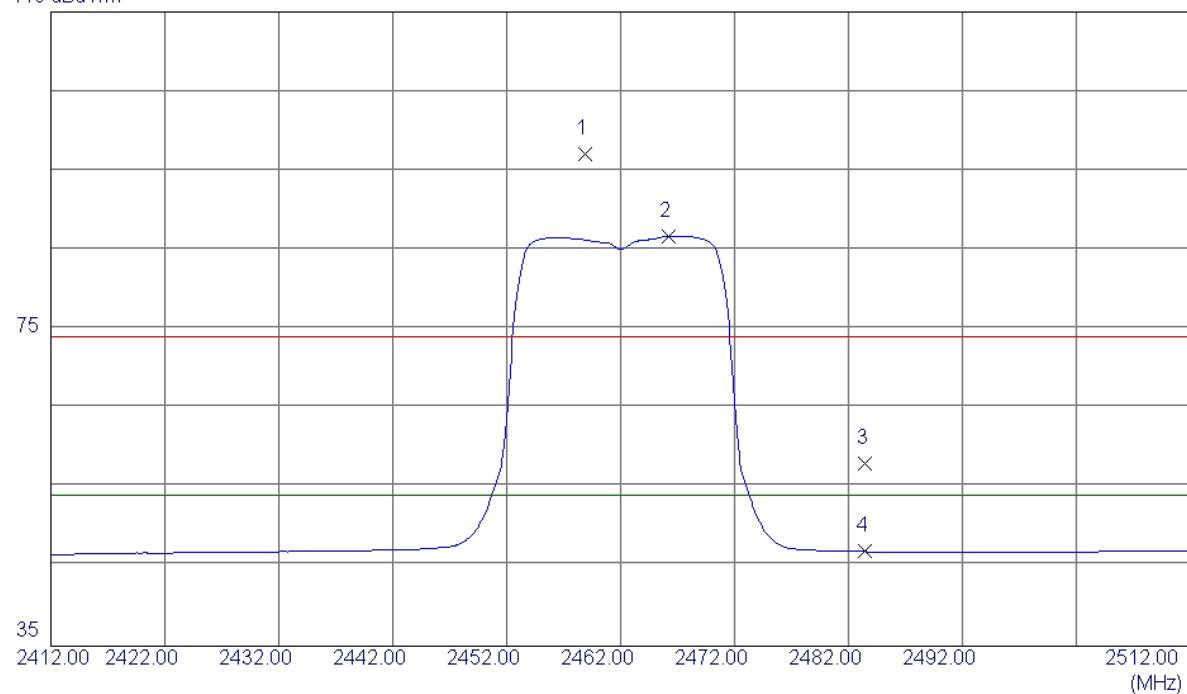
**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9400	27.60	5.07	32.67	54.00	-21.33	AVG	
2	4874.2750	36.46	5.07	41.53	74.00	-32.47	Peak	

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

**Vertical**

115 dBuV/m

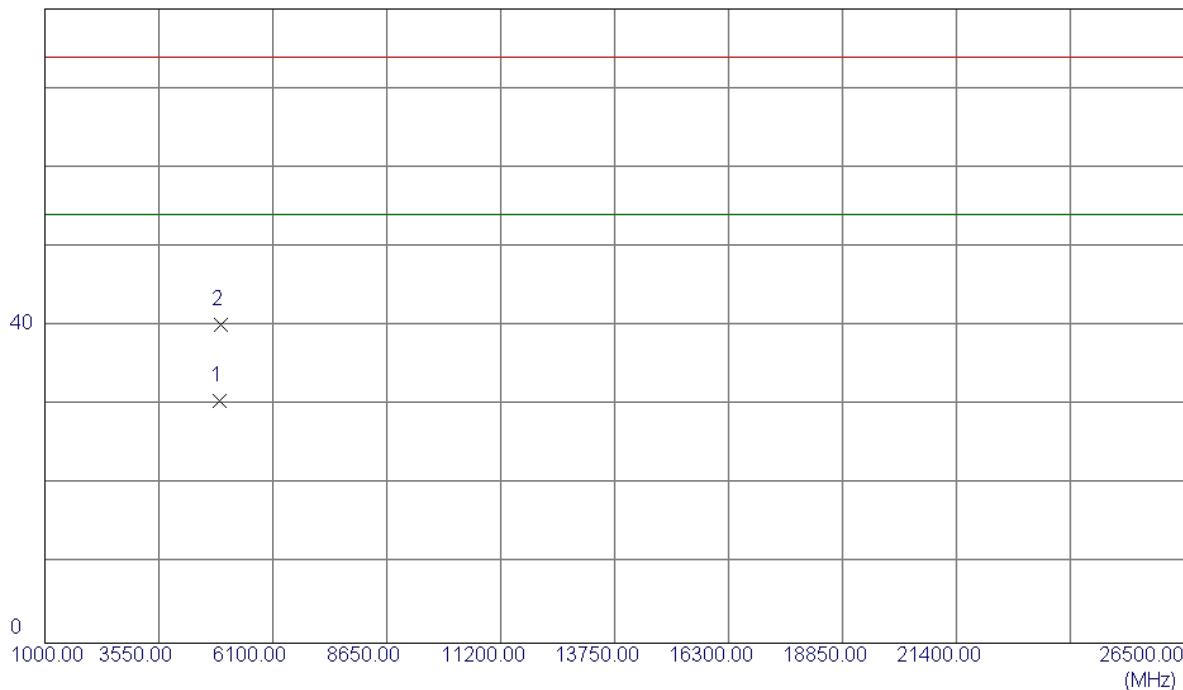


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.9000	63.86	33.30	97.16	74.00	23.16	Peak	No Limit
2 *	2466.2000	53.36	33.33	86.69	54.00	32.69	Avg	No Limit
3	2483.5000	24.65	33.40	58.05	74.00	-15.95	Peak	
4	2483.5000	13.53	33.40	46.93	54.00	-7.07	Avg	

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

**Vertical**

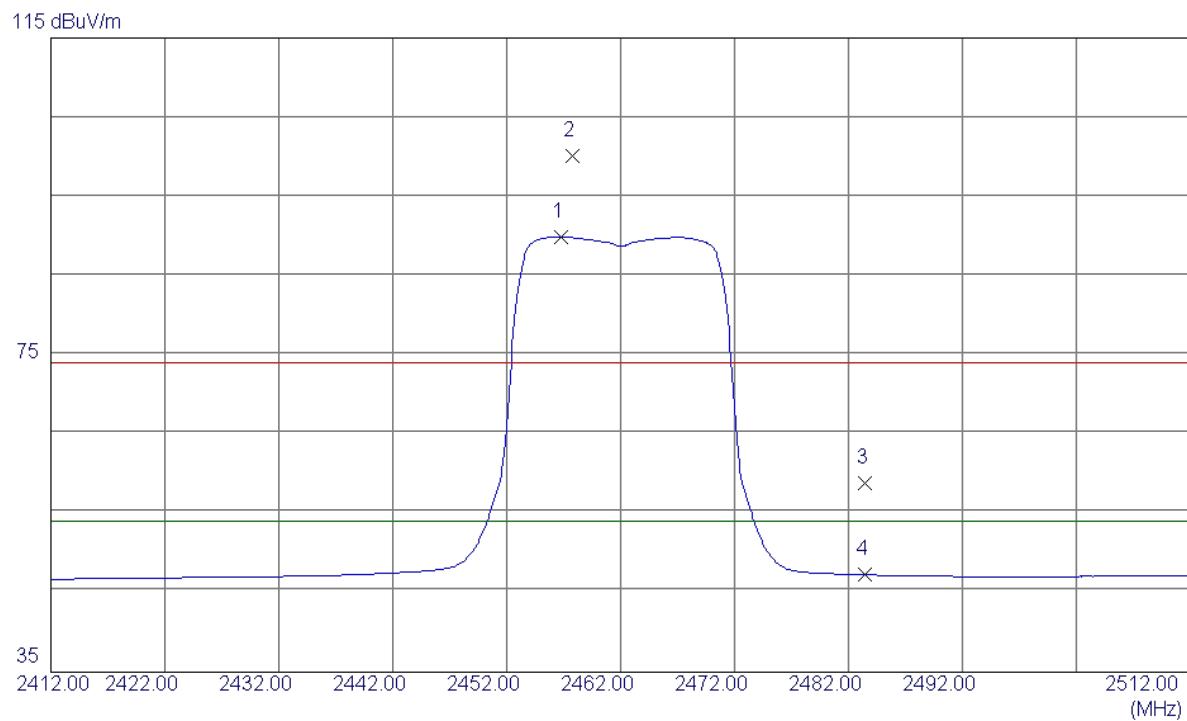
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.3710	25.33	5.27	30.60	54.00	-23.40	AVG	
2	4924.7320	34.85	5.28	40.13	74.00	-33.87	Peak	

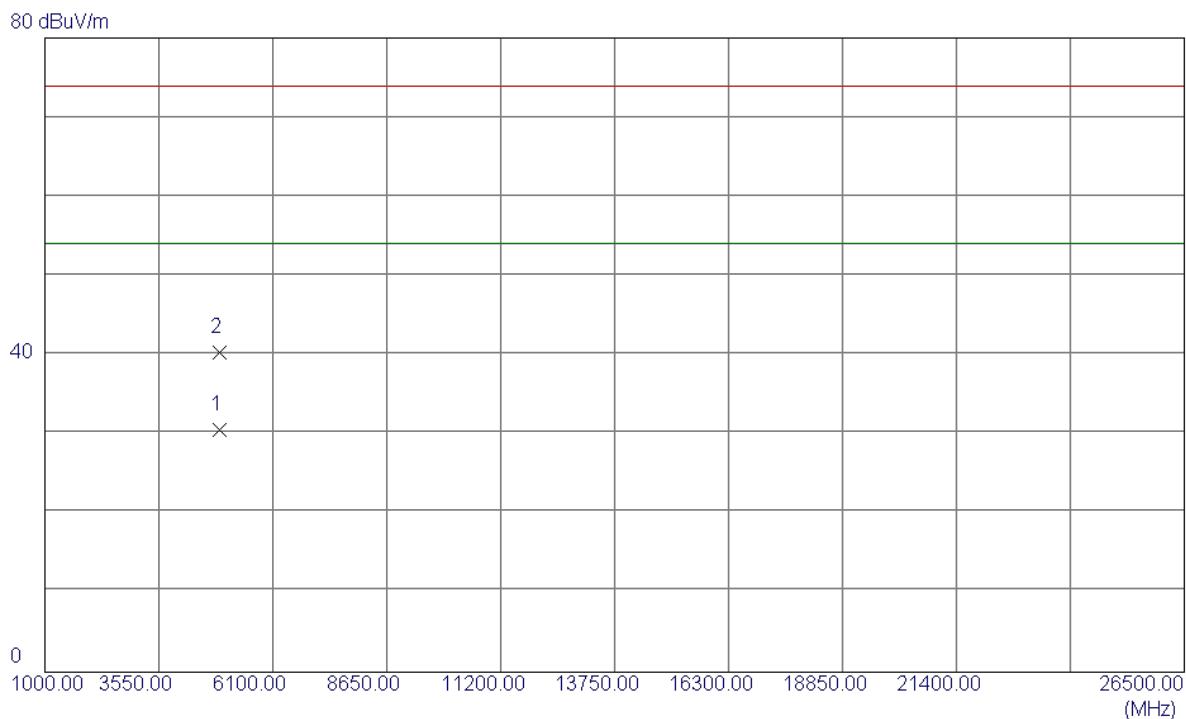
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

### Horizontal



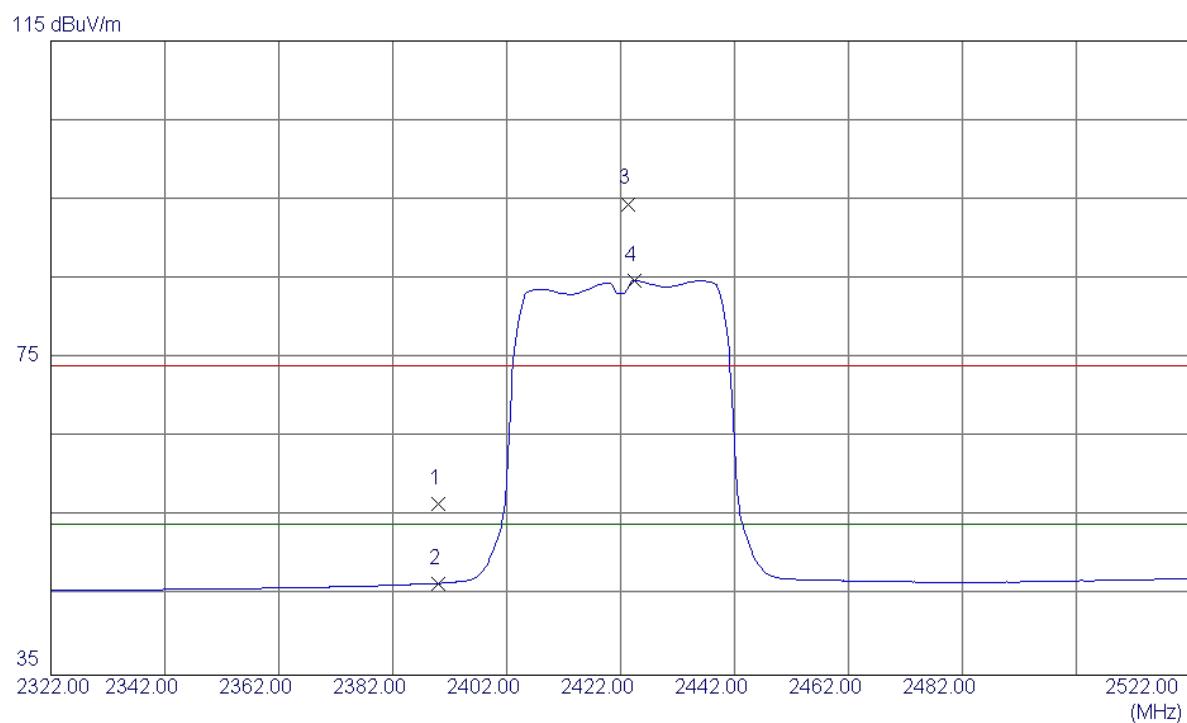
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin Detector	Comment
1 *	2456.8000	56.63	33.29	89.92	54.00	35.92	AVG No Limit
2	2457.8000	66.84	33.29	100.13	74.00	26.13	Peak No Limit
3	2483.5000	25.41	33.40	58.81	74.00	-15.19	Peak
4	2483.5000	13.89	33.40	47.29	54.00	-6.71	AVG

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9850	25.33	5.28	30.61	54.00	-23.39	AVG	
2	4924.1450	35.11	5.28	40.39	74.00	-33.61	Peak	

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

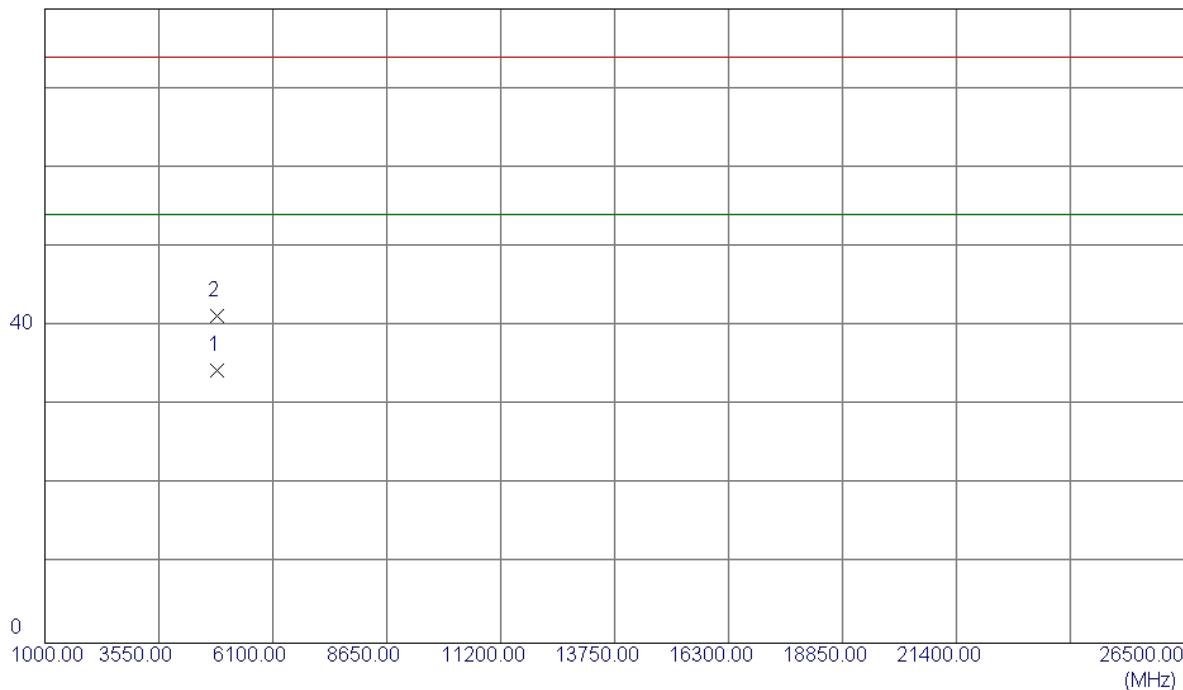
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.63	33.01	56.64	74.00	-17.36	Peak	
2	2390.0000	13.57	33.01	46.58	54.00	-7.42	Avg	
3	2423.4000	61.29	33.15	94.44	74.00	20.44	Peak	No Limit
4 *	2424.4000	51.65	33.15	84.80	54.00	30.80	Avg	No Limit

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

**Vertical**

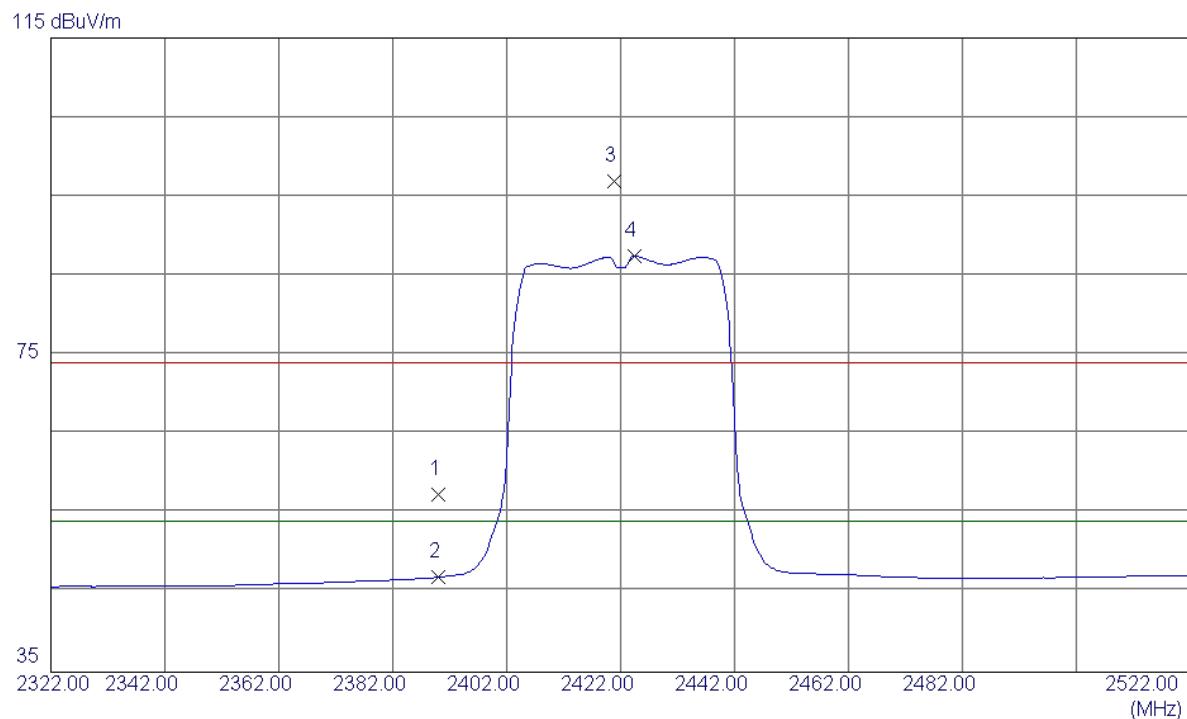
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.2250	29.49	4.94	34.43	54.00	-19.57	AVG	
2	4844.3820	36.39	4.94	41.33	74.00	-32.67	Peak	

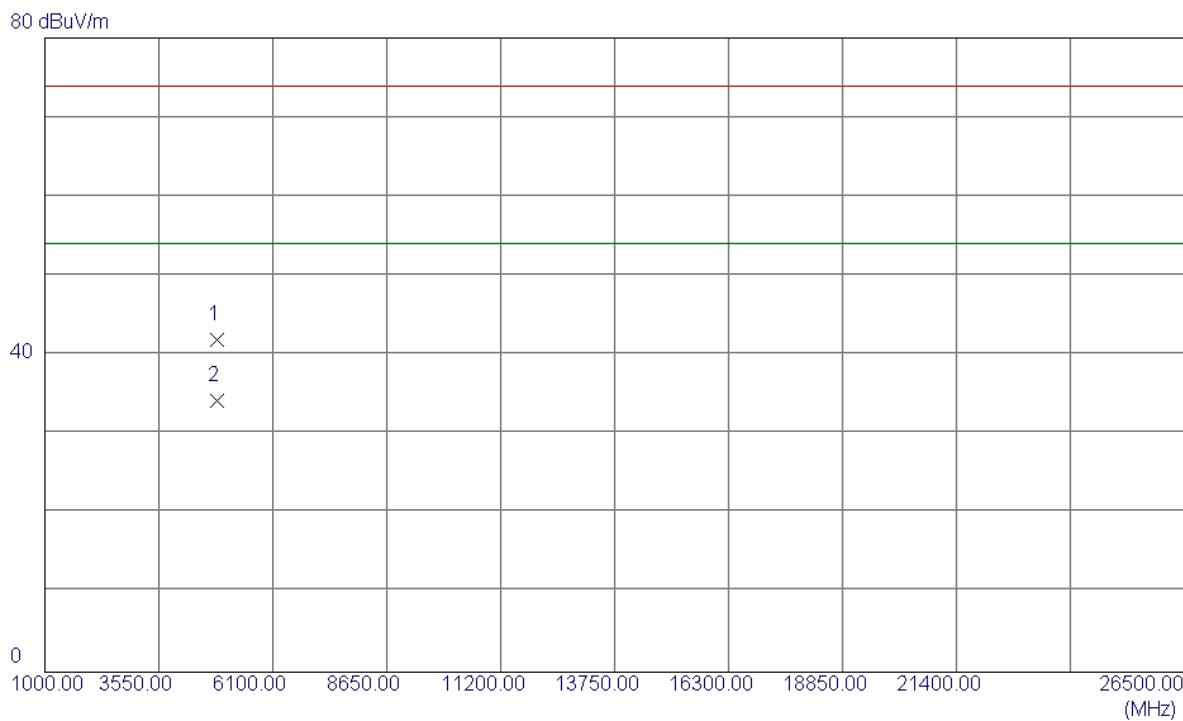
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

### Horizontal



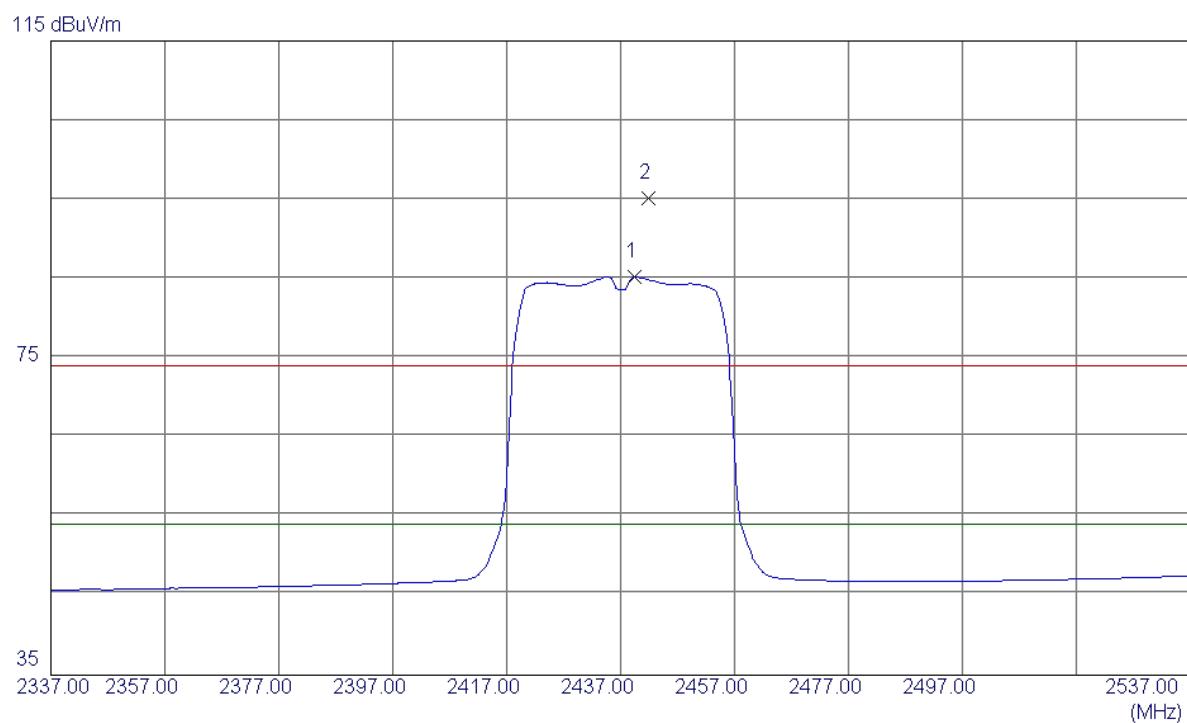
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.41	33.01	57.42	74.00	-16.58	Peak	
2	2390.0000	13.96	33.01	46.97	54.00	-7.03	Avg	
3	2420.8000	63.80	33.14	96.94	74.00	22.94	Peak	No Limit
4 *	2424.4000	54.37	33.15	87.52	54.00	33.52	Avg	No Limit

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0120	37.03	4.94	41.97	74.00	-32.03	Peak	
2 *	4844.0620	29.37	4.94	34.31	54.00	-19.69	AVG	

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

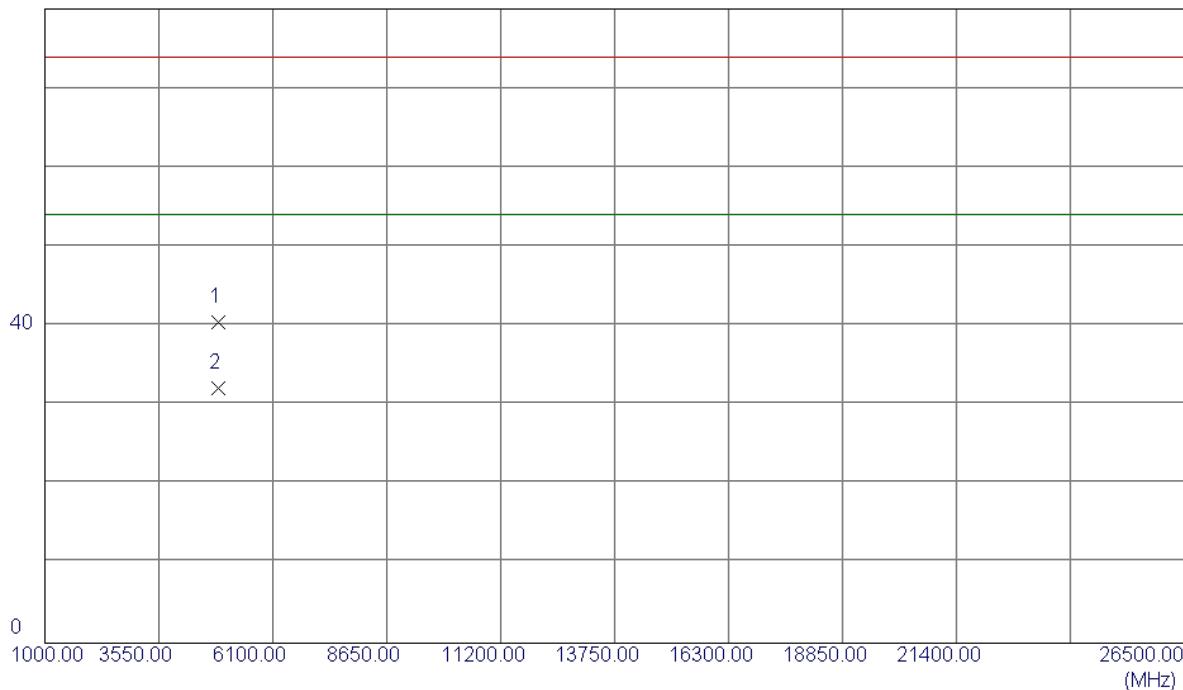
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2439.4000	52.02	33.22	85.24	54.00	31.24	AVG	No Limit
2	2441.8000	61.99	33.23	95.22	74.00	21.22	Peak	No Limit

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

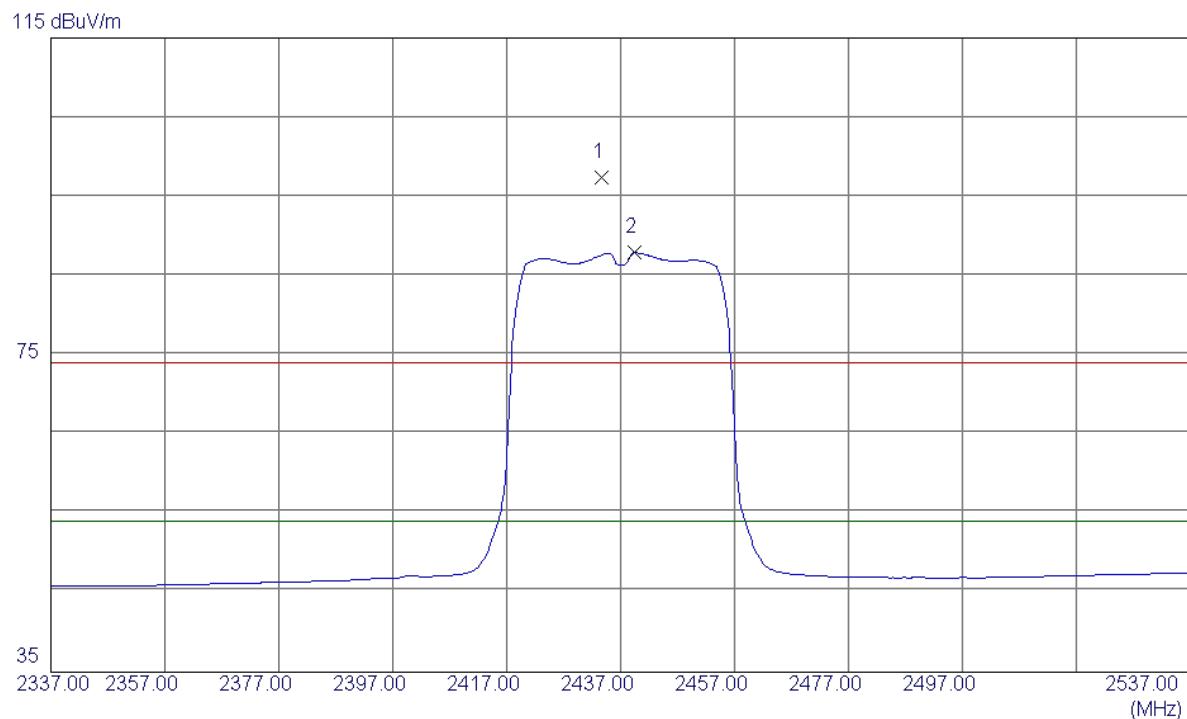
**Vertical**

80 dBuV/m



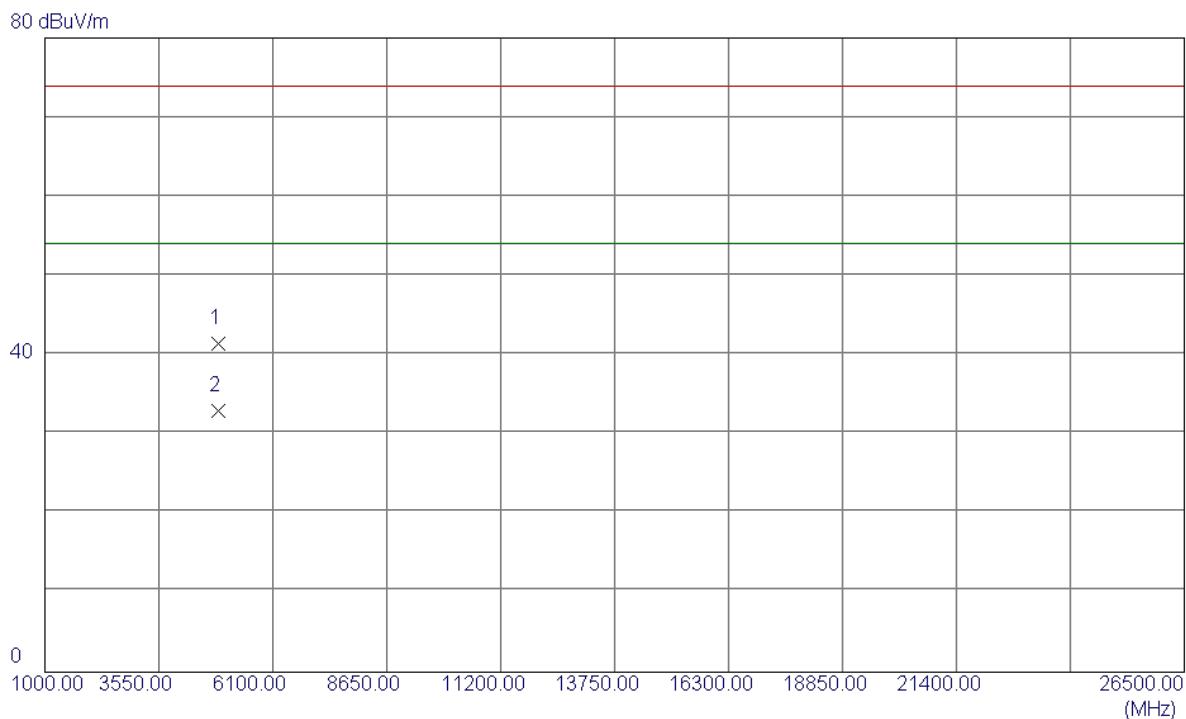
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5379	35.43	5.06	40.49	74.00	-33.51	Peak	
2 *	4873.8590	27.02	5.07	32.09	54.00	-21.91	AVG	

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

**Horizontal**

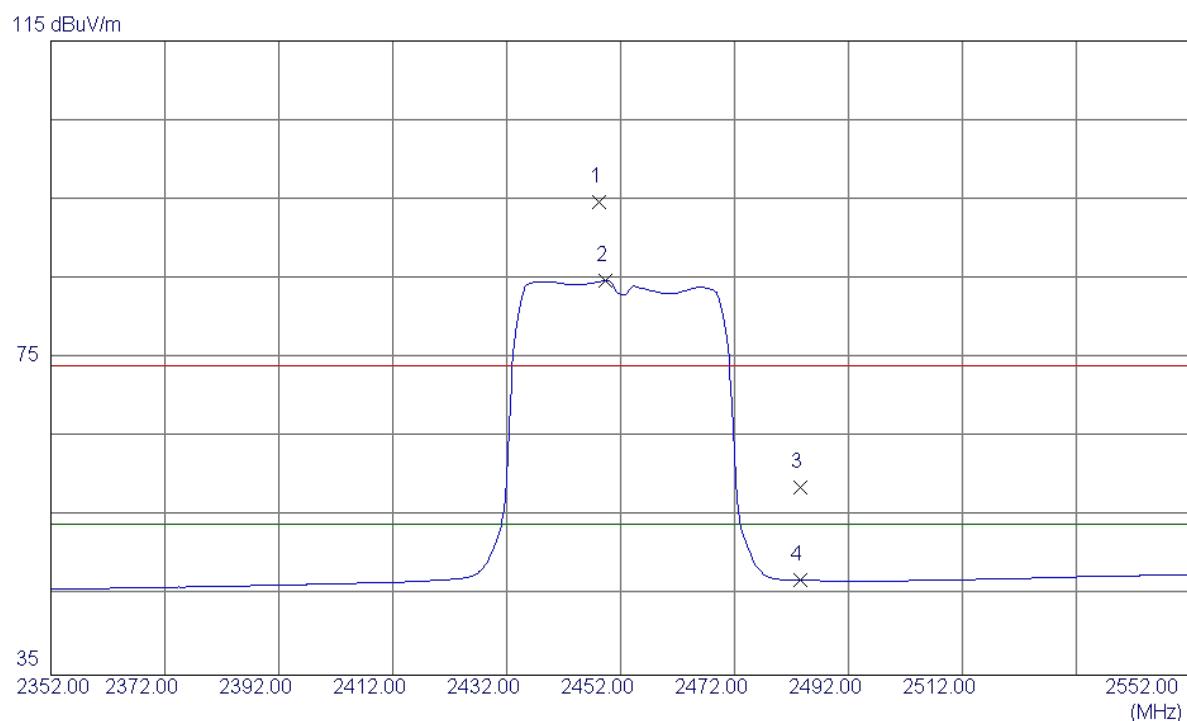
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.6000	64.20	33.19	97.39	74.00	23.39	Peak	No Limit
2 *	2439.4000	54.69	33.22	87.91	54.00	33.91	AVG	No Limit

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

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8950	36.42	5.07	41.49	74.00	-32.51	Peak	
2 *	4873.9650	27.94	5.07	33.01	54.00	-20.99	AVG	

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

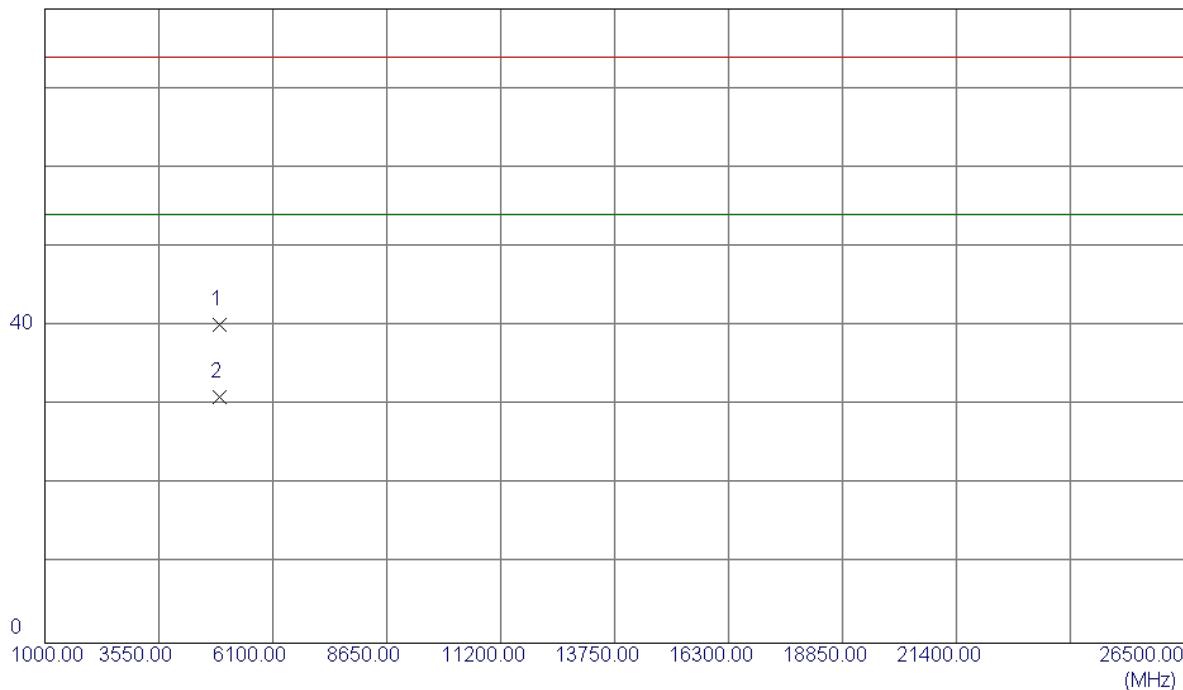
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2448.2000	61.48	33.25	94.73	74.00	20.73	Peak	No Limit
2 *	2449.4000	51.46	33.26	84.72	54.00	30.72	Avg	No Limit
3	2483.5000	25.29	33.40	58.69	74.00	-15.31	Peak	
4	2483.5000	13.55	33.40	46.95	54.00	-7.05	Avg	

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

**Vertical**

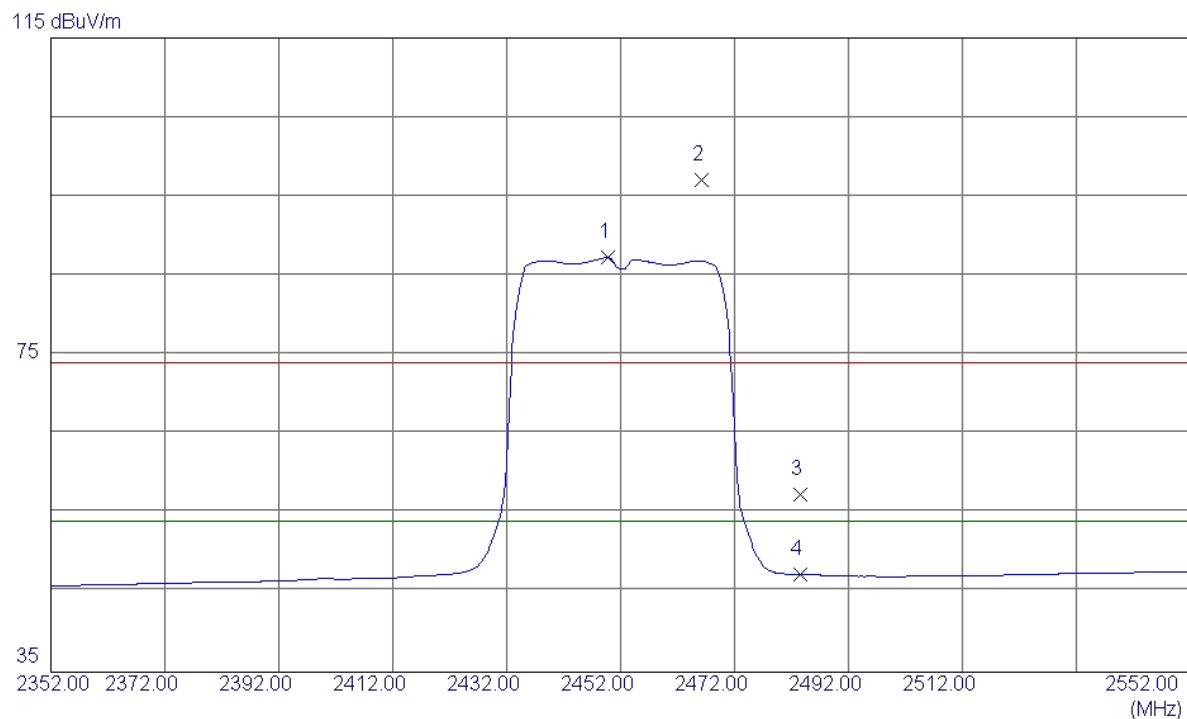
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.9750	35.03	5.19	40.22	74.00	-33.78	Peak	
2 *	4904.0250	25.78	5.19	30.97	54.00	-23.03	AVG	

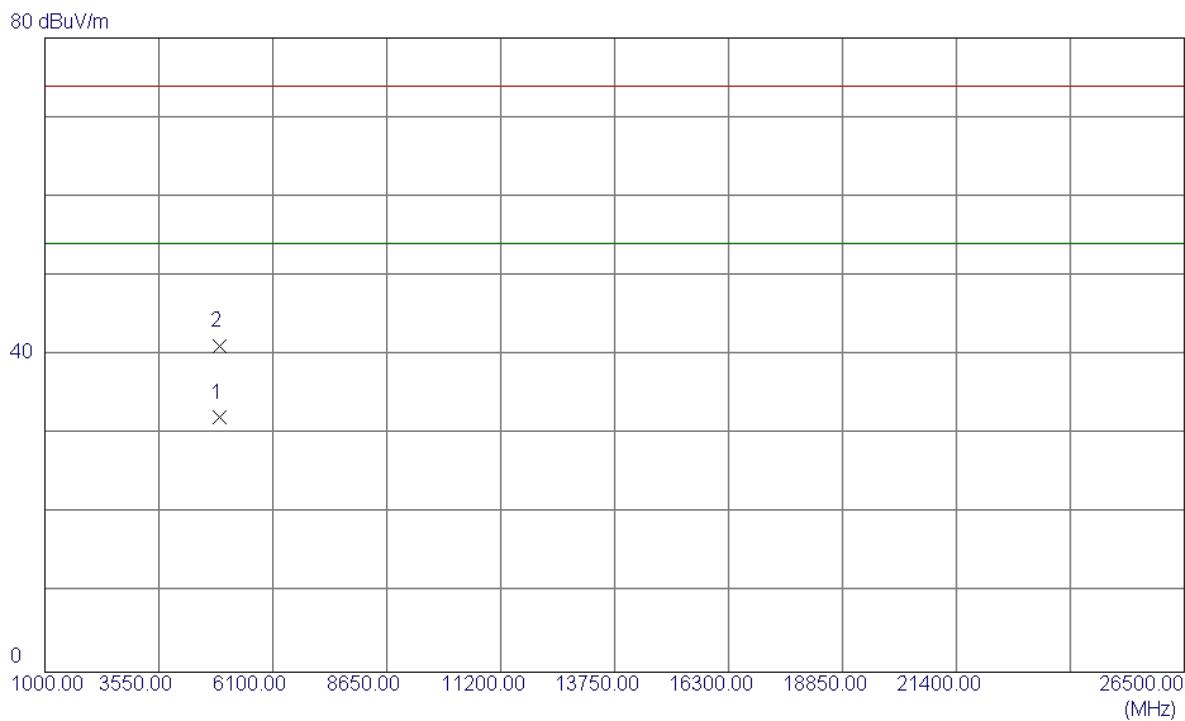
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2449.8000	54.03	33.26	87.29	54.00	33.29	AVG	No Limit
2	2466.2000	63.75	33.33	97.08	74.00	23.08	Peak	No Limit
3	2483.5000	24.01	33.40	57.41	74.00	-16.59	Peak	
4	2483.5000	13.91	33.40	47.31	54.00	-6.69	AVG	

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

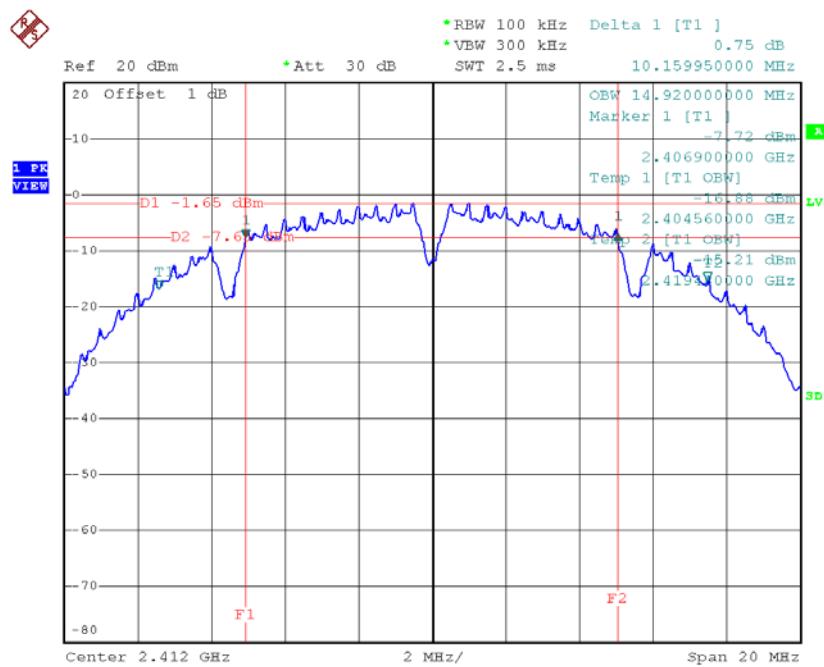
**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0150	26.89	5.19	32.08	54.00	-21.92	AVG	
2	4904.1549	35.95	5.19	41.14	74.00	-32.86	Peak	

## ATTACHMENTE - BANDWIDTH

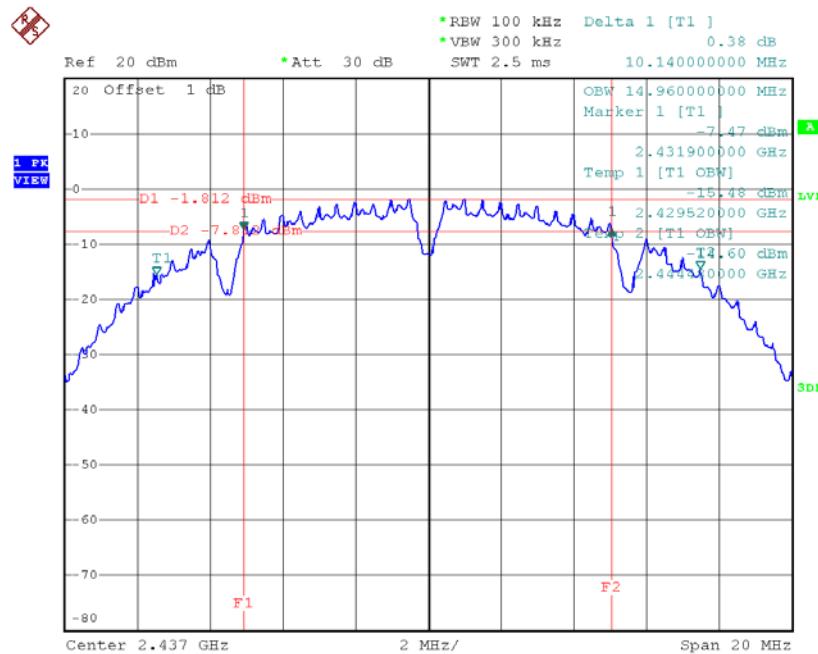
**Test Mode : TX B Mode\_CH01/06/11**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.16	14.92	500	Complies
2437	10.14	14.96	500	Complies
2462	10.14	14.92	500	Complies

**TX CH01**


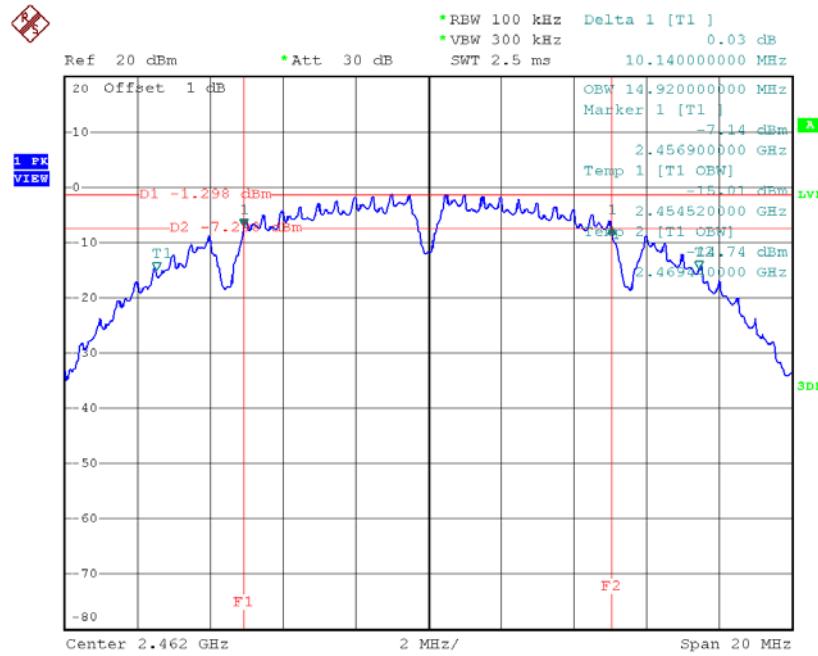
Date: 5.DEC.2016 19:33:58

## TX CH06



Date: 5.DEC.2016 19:36:19

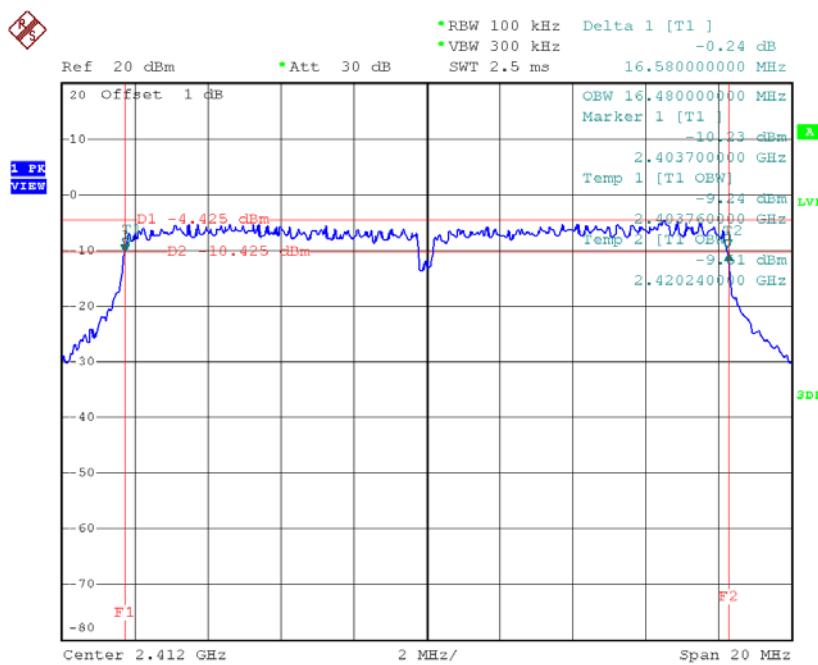
## TX CH11



Date: 5.DEC.2016 19:38:14

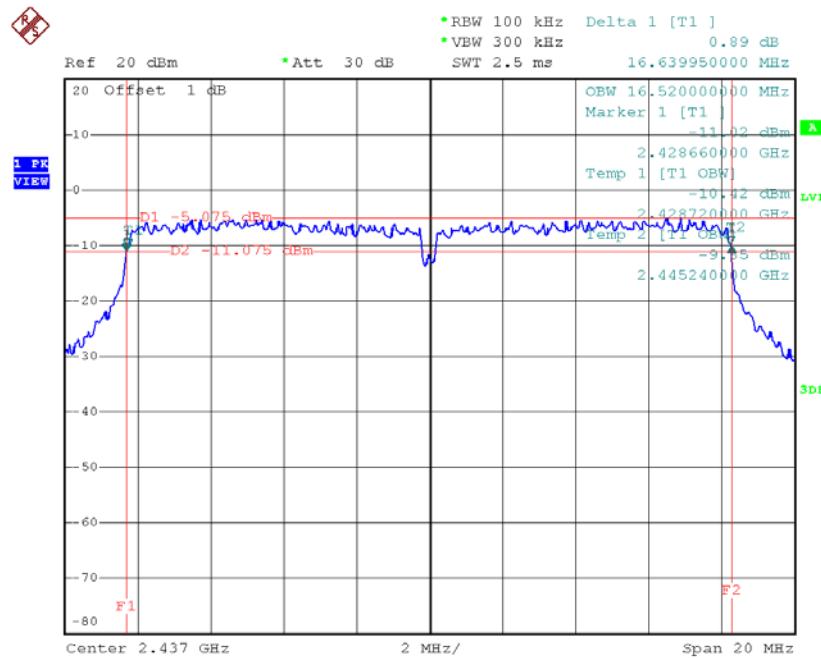
**Test Mode: TX G Mode\_CH01/06/11**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.58	16.48	500	Complies
2437	16.64	16.52	500	Complies
2462	16.62	16.48	500	Complies

**TX CH01**


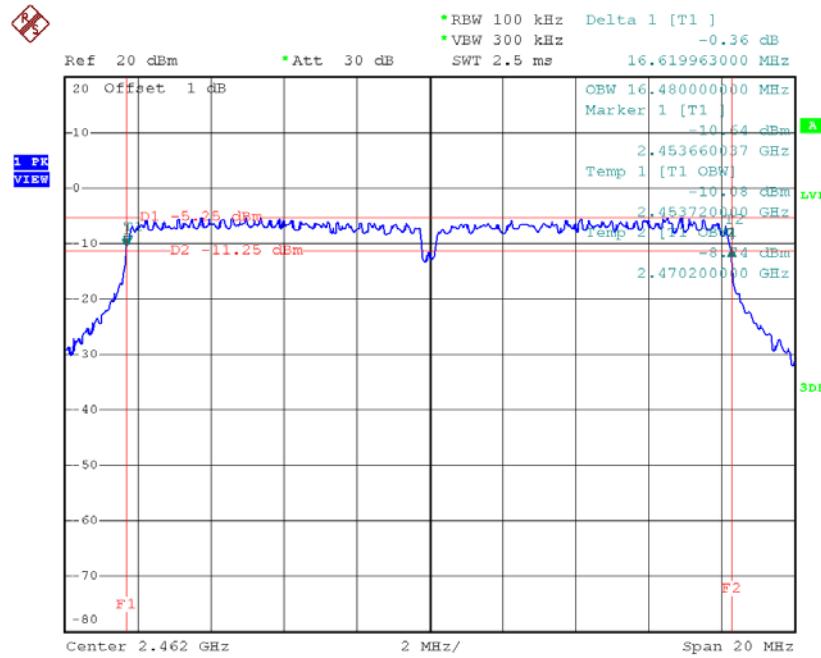
Date: 5.DEC.2016 19:40:48

## TX CH06



Date: 5.DEC.2016 19:42:32

## TX CH11

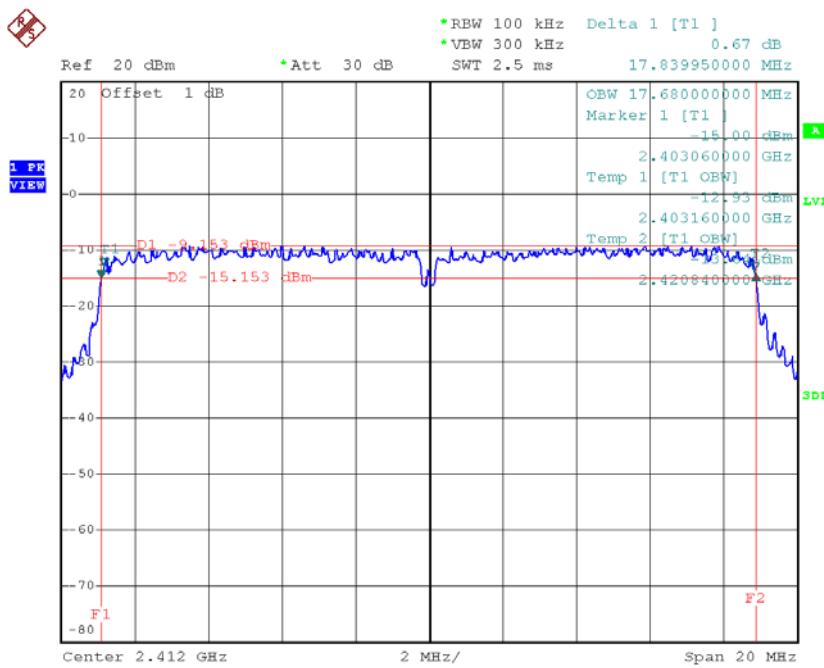


Date: 5.DEC.2016 19:43:54

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

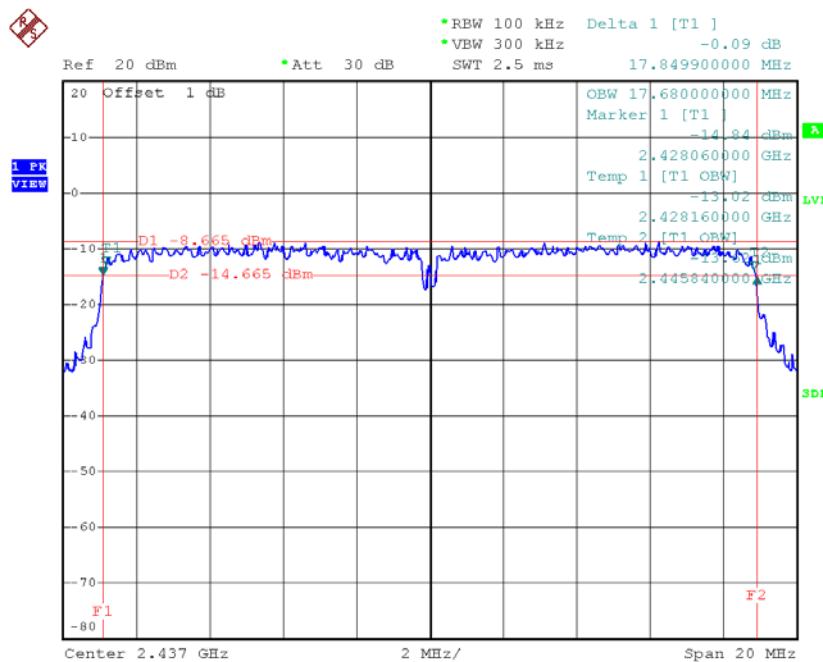
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.84	17.68	500	Complies
2437	17.85	17.68	500	Complies
2462	17.84	17.64	500	Complies

## TX CH01



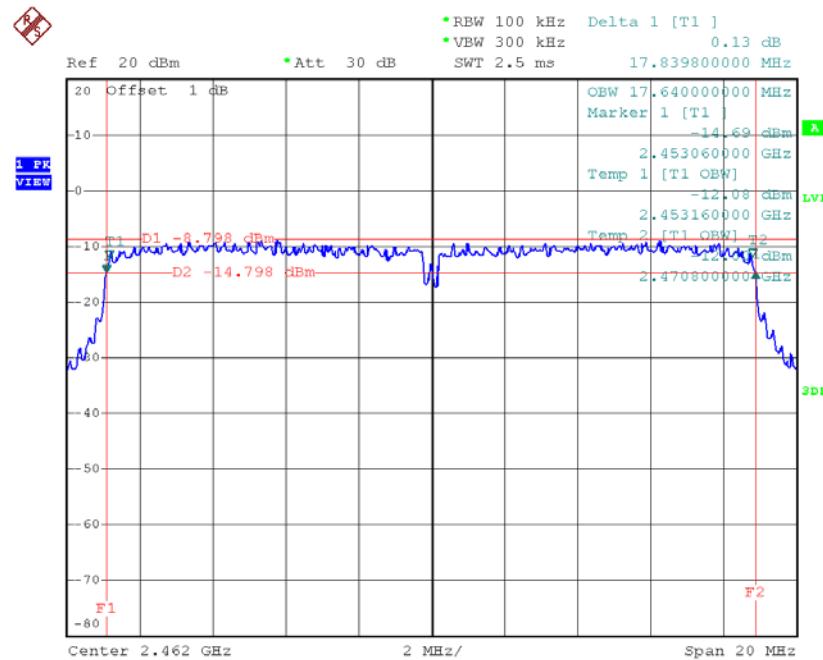
Date: 5.DEC.2016 19:46:10

## TX CH06



Date: 5.DEC.2016 19:48:13

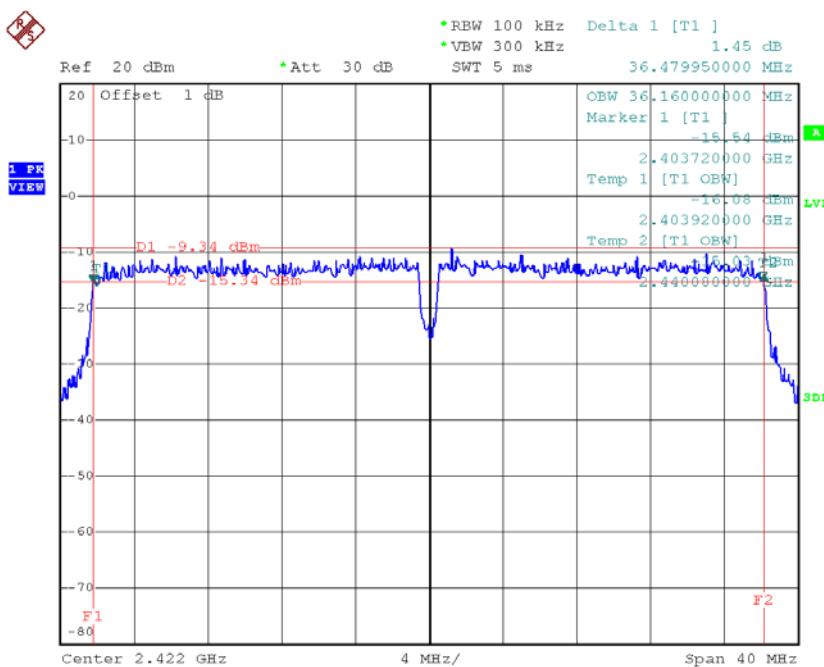
## TX CH11



Date: 5.DEC.2016 19:50:26

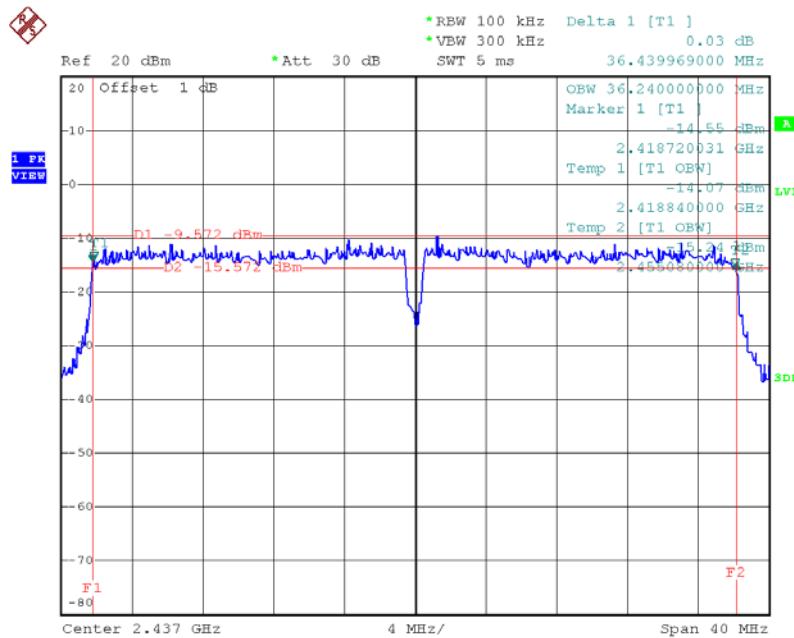
**Test Mode : TX N-40MHz Mode\_CH03/06/09**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.48	36.16	500	Complies
2437	36.44	36.24	500	Complies
2452	36.52	36.24	500	Complies

**TX CH03**


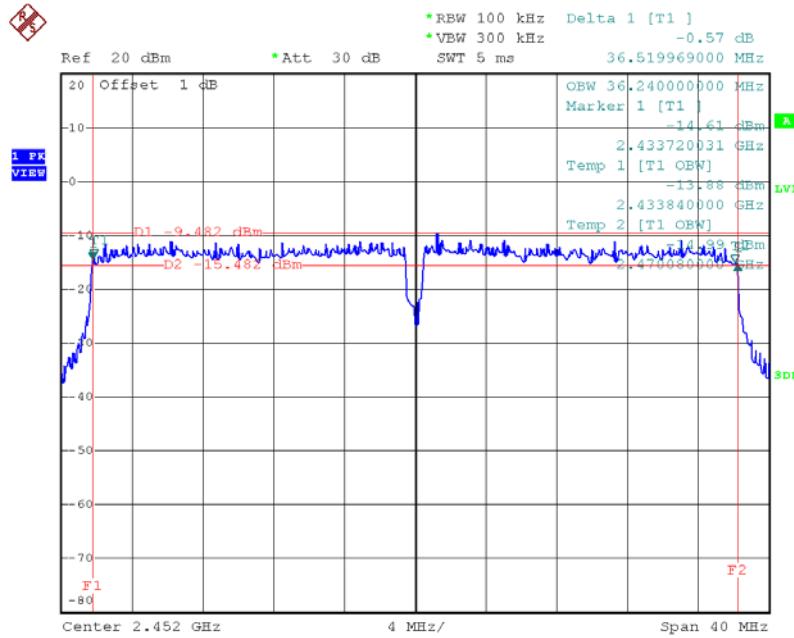
Date: 5.DEC.2016 20:20:32

## TX CH06



Date: 5.DEC.2016 20:23:31

## TX CH09



Date: 5.DEC.2016 20:25:15

## **ATTACHMENTF– MAXIMUM AVERAGE CONDUCTED OUTPUT POWER**

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.63	0.009	30.00	1.00	Complies
2437	9.51	0.009	30.00	1.00	Complies
2462	9.49	0.009	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.32	0.009	30.00	1.00	Complies
2437	9.54	0.009	30.00	1.00	Complies
2462	9.36	0.009	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	6.67	0.005	30.00	1.00	Complies
2437	6.53	0.004	30.00	1.00	Complies
2462	6.54	0.005	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	6.65	0.005	30.00	1.00	Complies
2437	6.61	0.005	30.00	1.00	Complies
2462	6.39	0.004	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	9.67	0.009	30.00	1.00	Complies
2437	9.58	0.009	30.00	1.00	Complies
2462	9.48	0.009	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	6.52	0.004	30.00	1.00	Complies
2437	6.67	0.005	30.00	1.00	Complies
2452	6.55	0.005	30.00	1.00	Complies

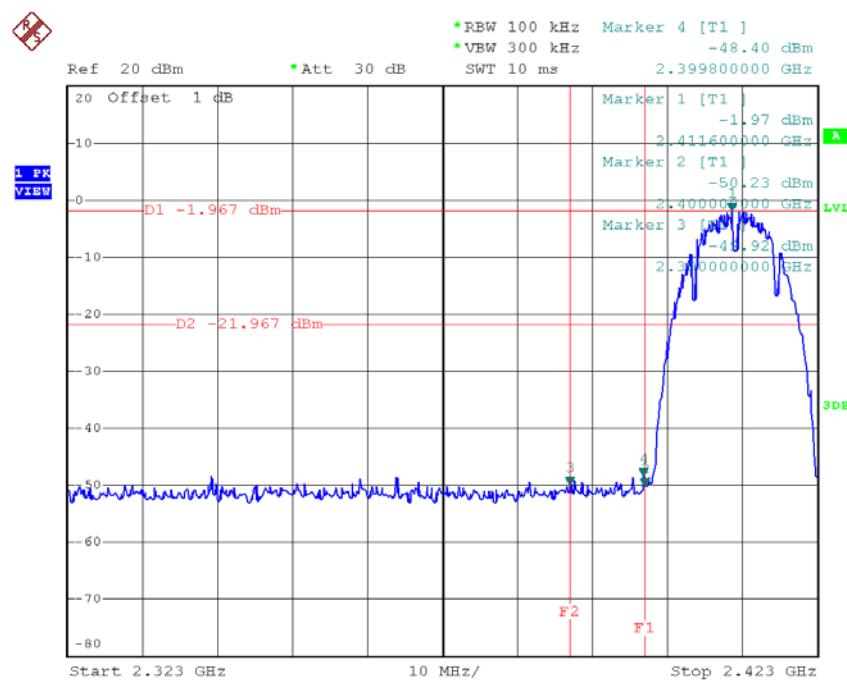
Test Mode :TX N40 Mode_CH03/06/09 – Ant 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	6.48	0.004	30.00	1.00	Complies
2437	6.43	0.004	30.00	1.00	Complies
2452	6.48	0.004	30.00	1.00	Complies

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	9.51	0.009	30.00	1.00	Complies
2437	9.56	0.009	30.00	1.00	Complies
2452	9.53	0.009	30.00	1.00	Complies

## ATTACHMENTG - ANTENNA CONDUCTED SPURIOUS EMISSION

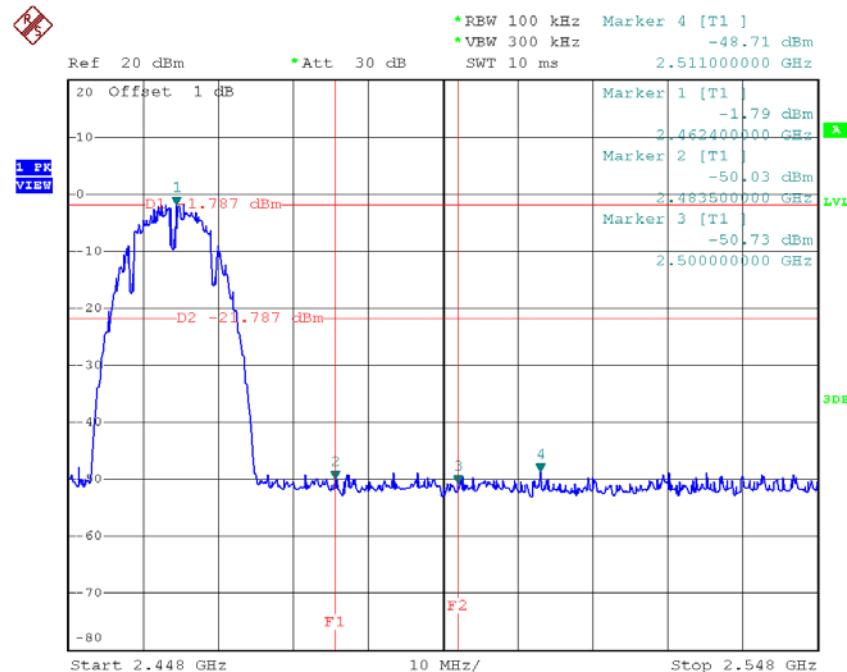
**Test Mode : TX B Mode**

### TX B mode CH01



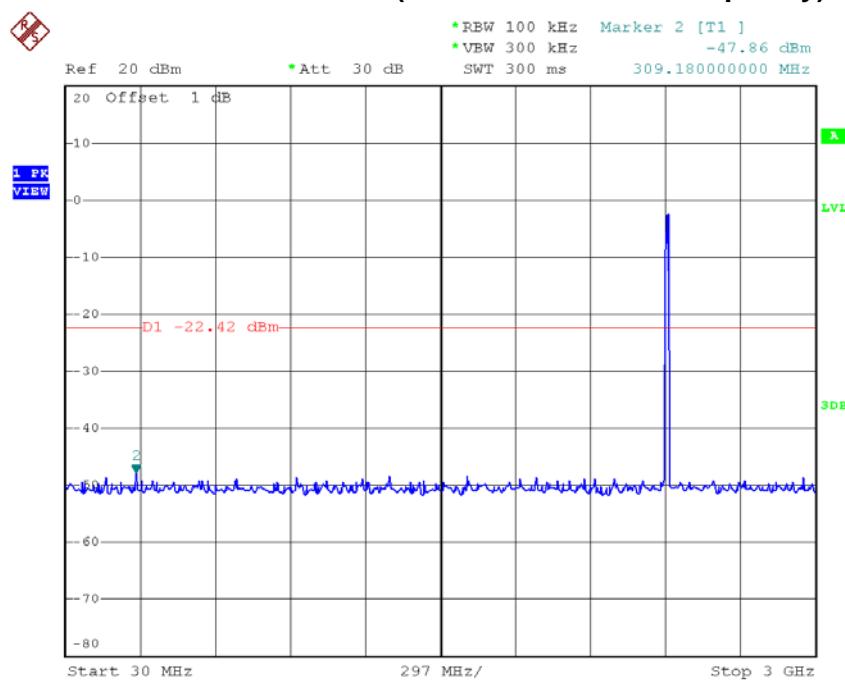
Date: 5.DEC.2016 19:34:37

### TX B modeCH11

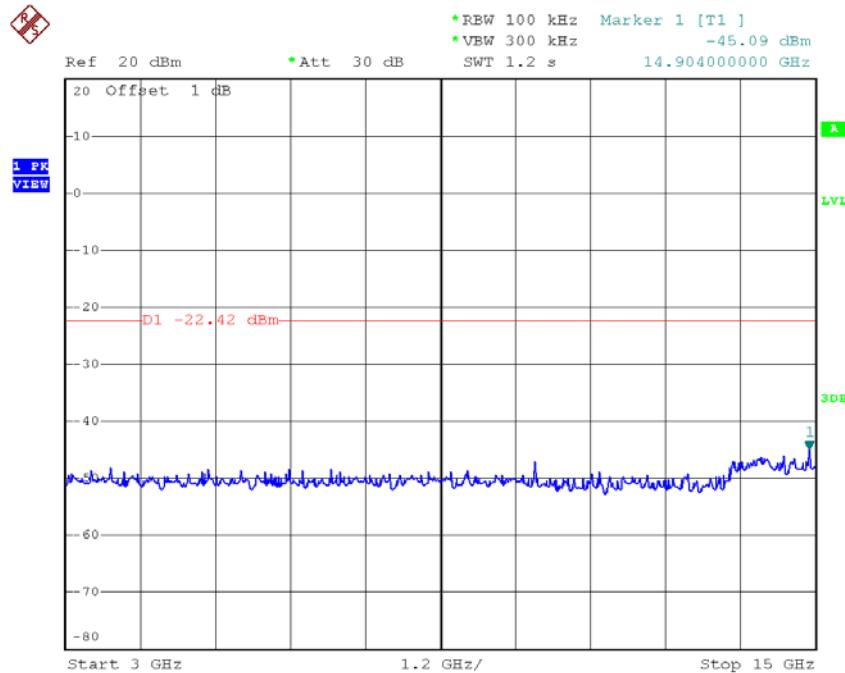


Date: 5.DEC.2016 19:38:52

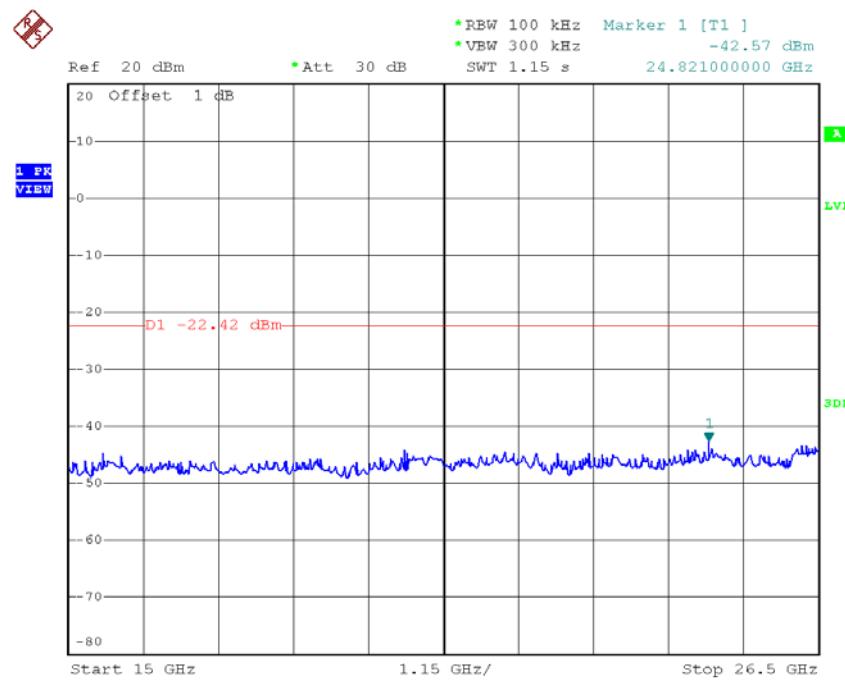
## TX B mode CH01 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:34:13

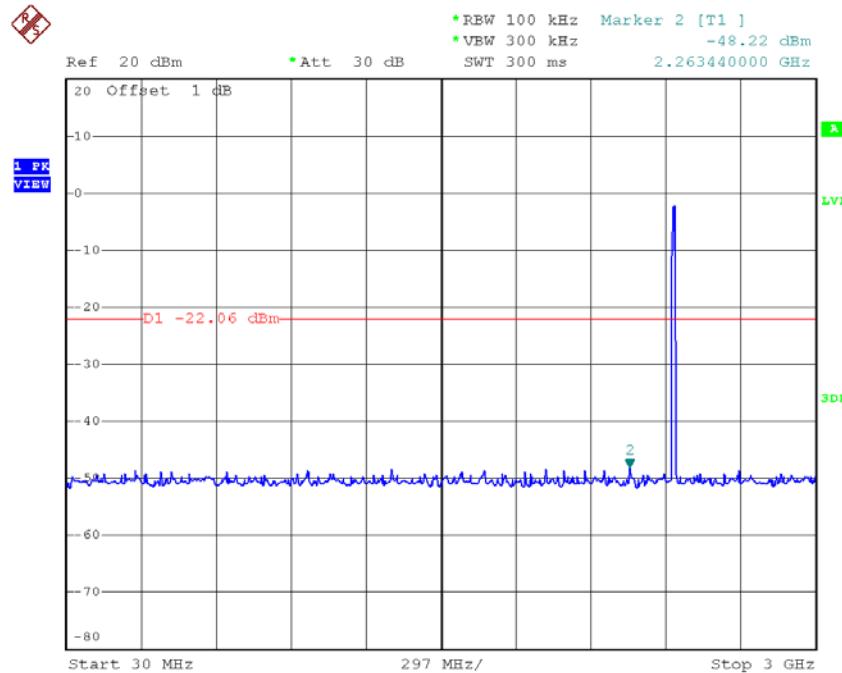


Date: 5.DEC.2016 19:34:21

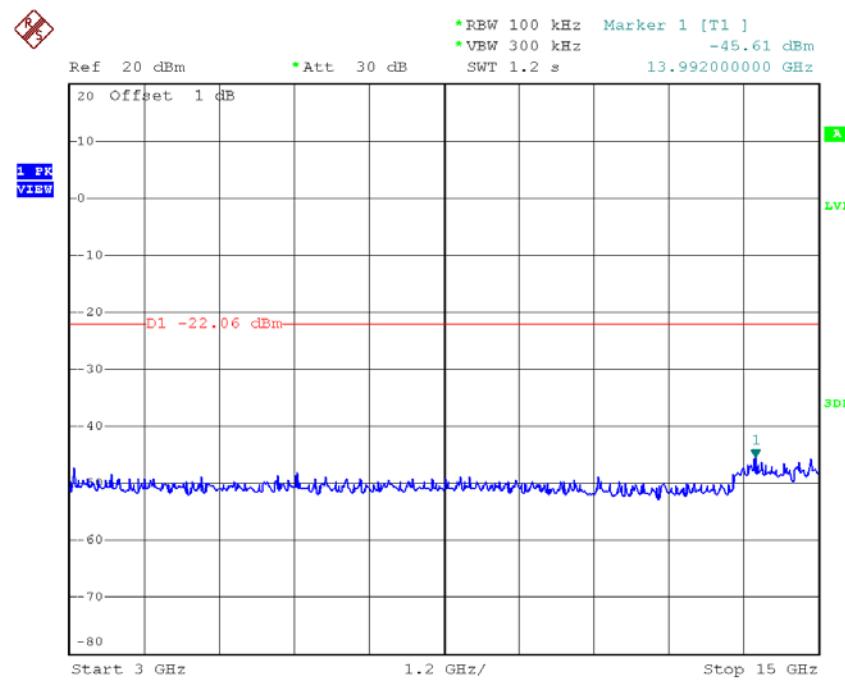


Date: 5.DEC.2016 19:34:29

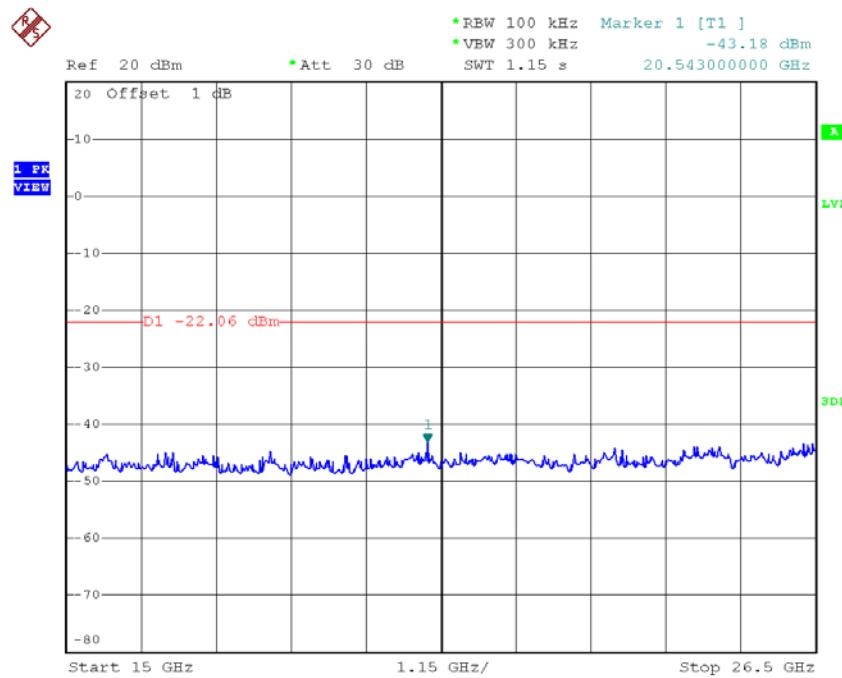
### TX B mode CH06 (10 Harmonic of the frequency)



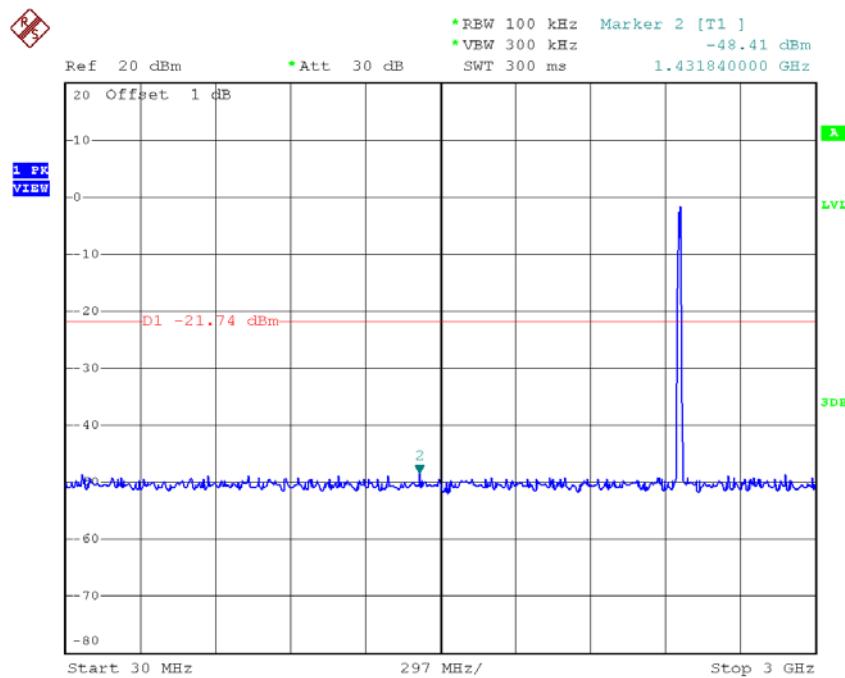
Date: 5.DEC.2016 19:36:33



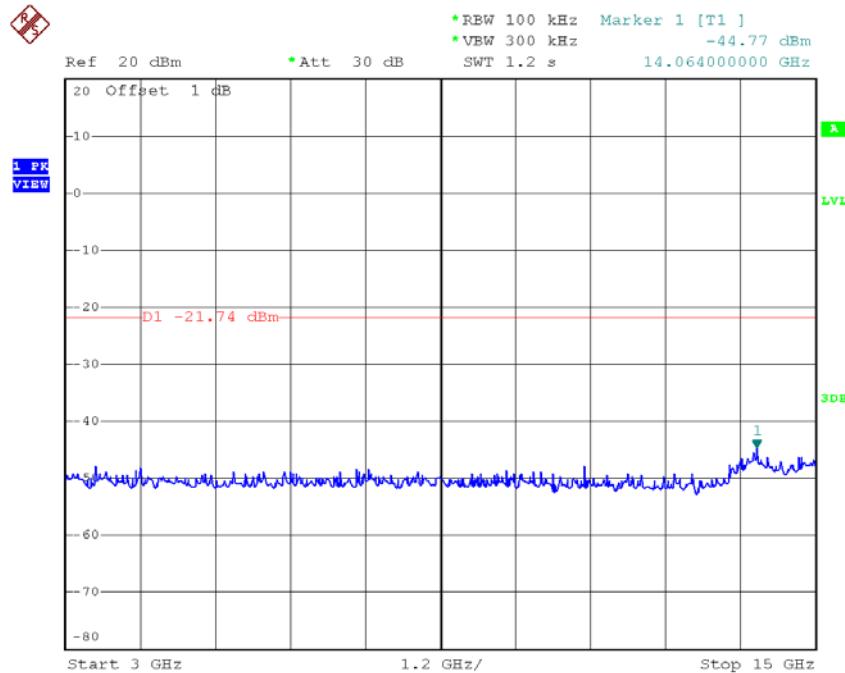
Date: 5.DEC.2016 19:36:41



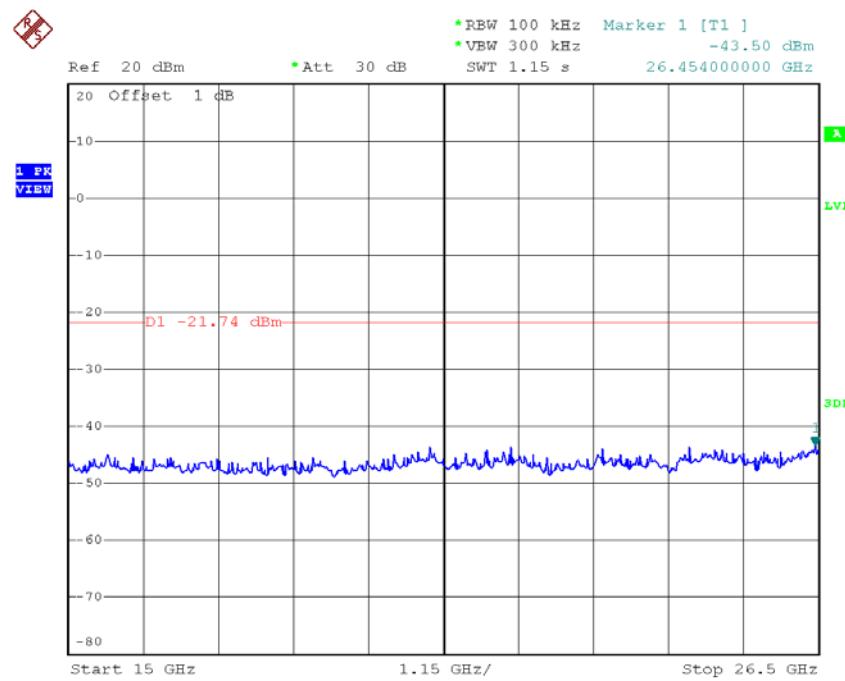
Date: 5.DEC.2016 19:36:50

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

Date: 5.DEC.2016 19:38:28



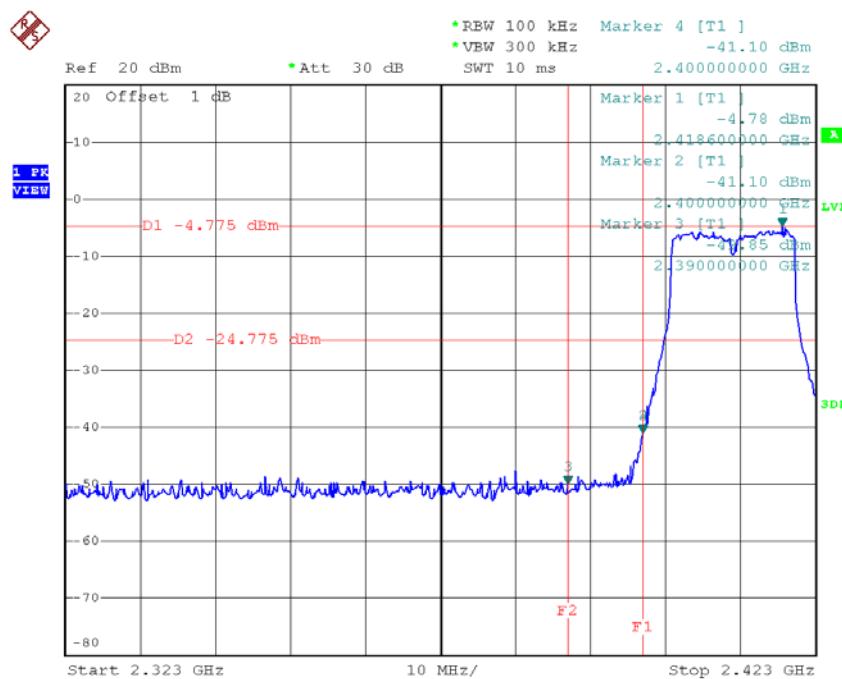
Date: 5.DEC.2016 19:38:36



Date: 5.DEC.2016 19:38:45

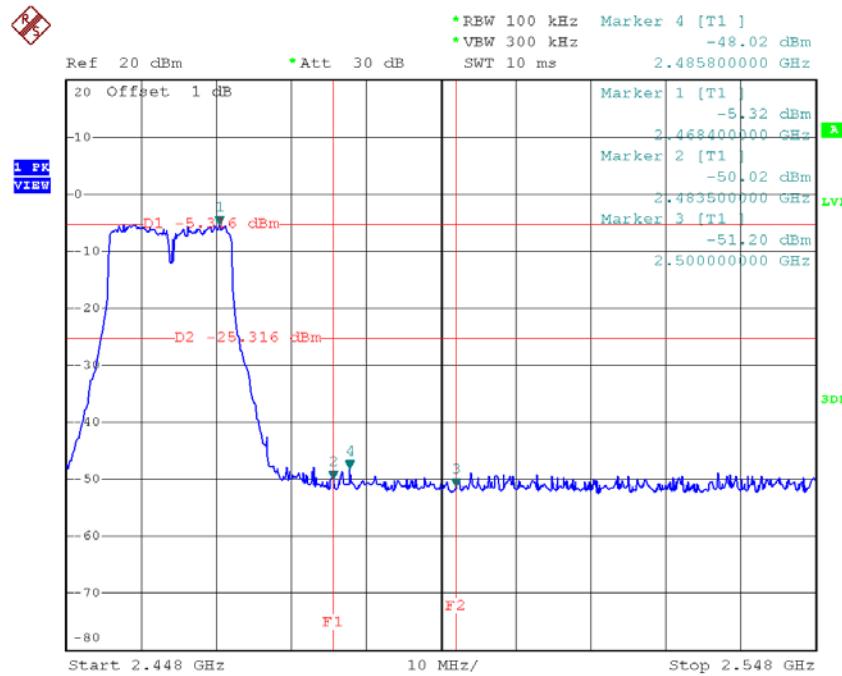
**Test Mode : TX G Mode**

### TX G mode CH01



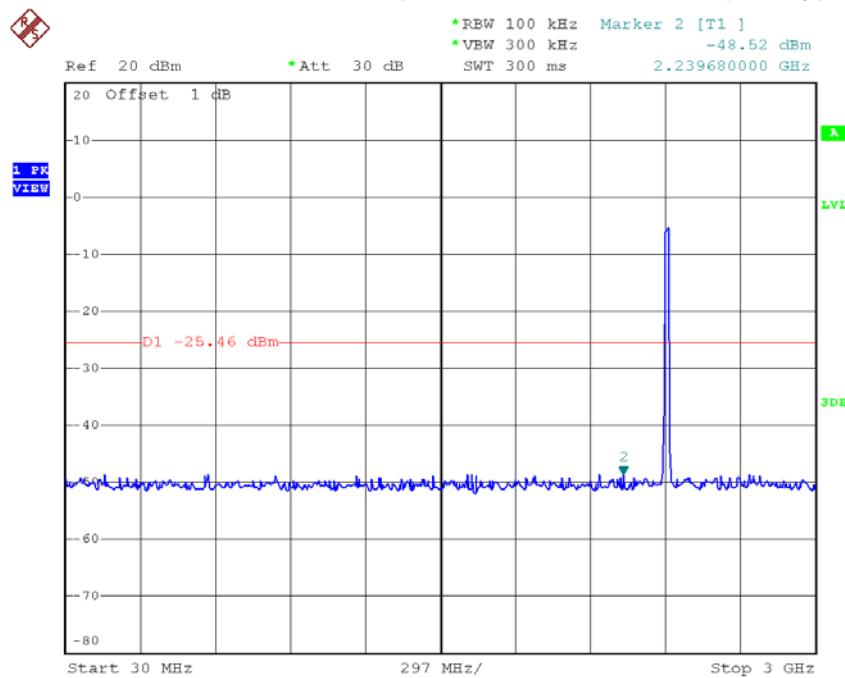
Date: 5.DEC.2016 19:41:27

### TX G modeCH11

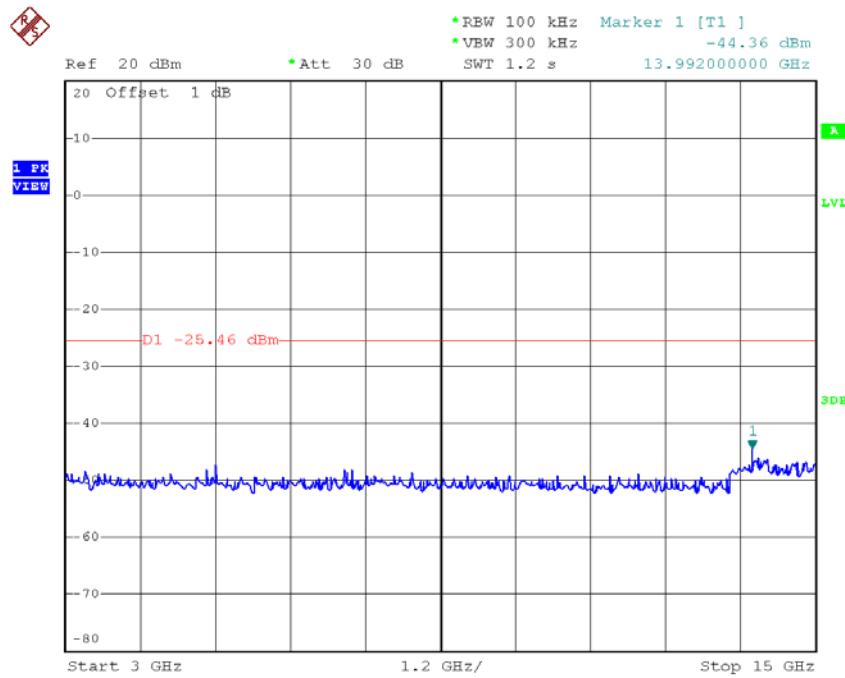


Date: 5.DEC.2016 19:44:32

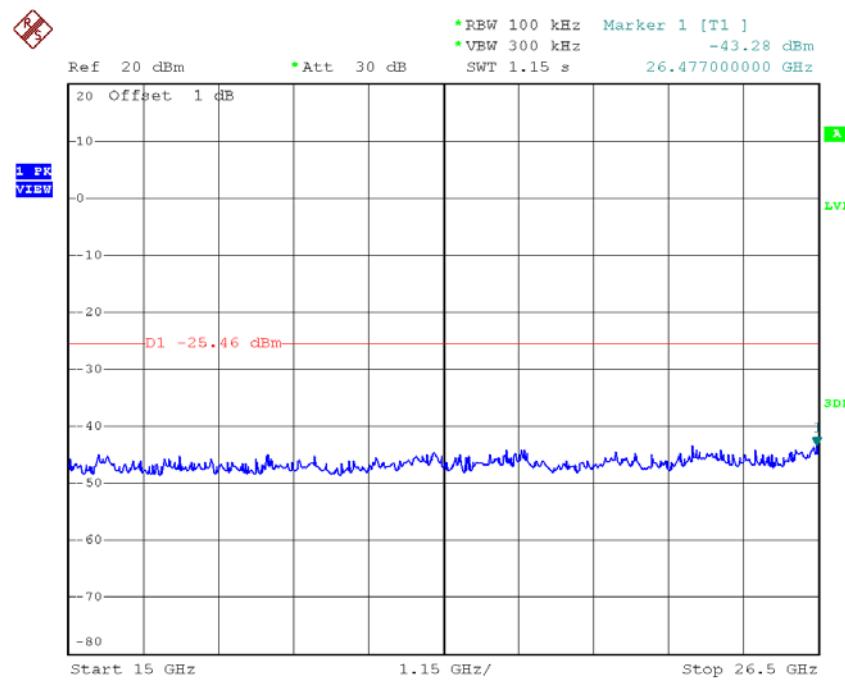
## TX G mode CH01 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:41:02

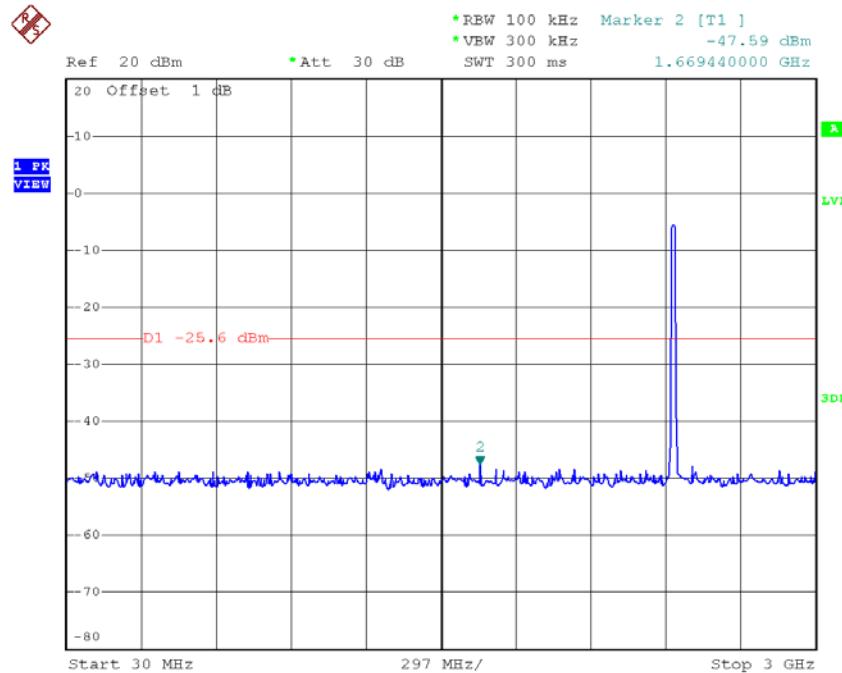


Date: 5.DEC.2016 19:41:11

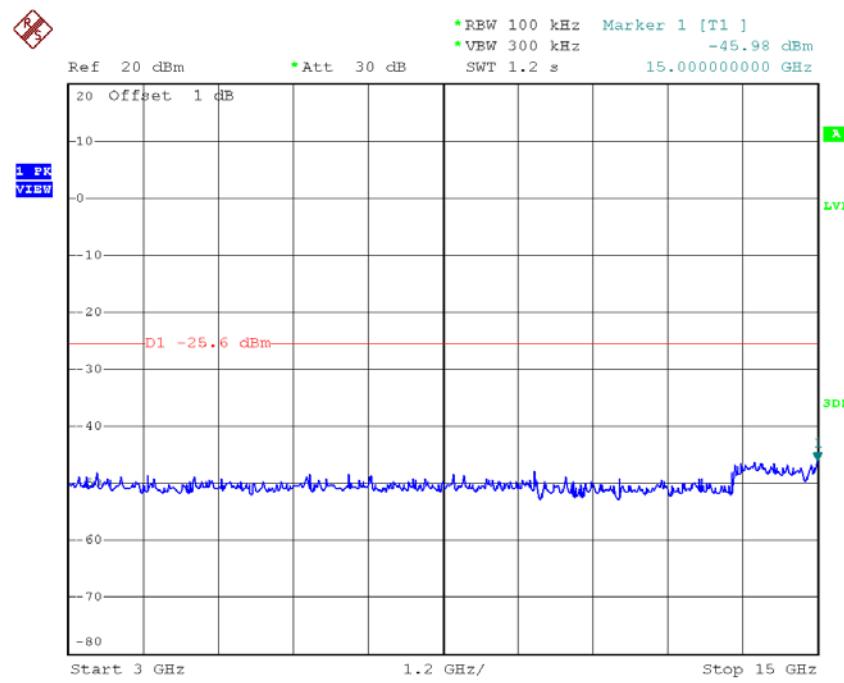


Date: 5.DEC.2016 19:41:19

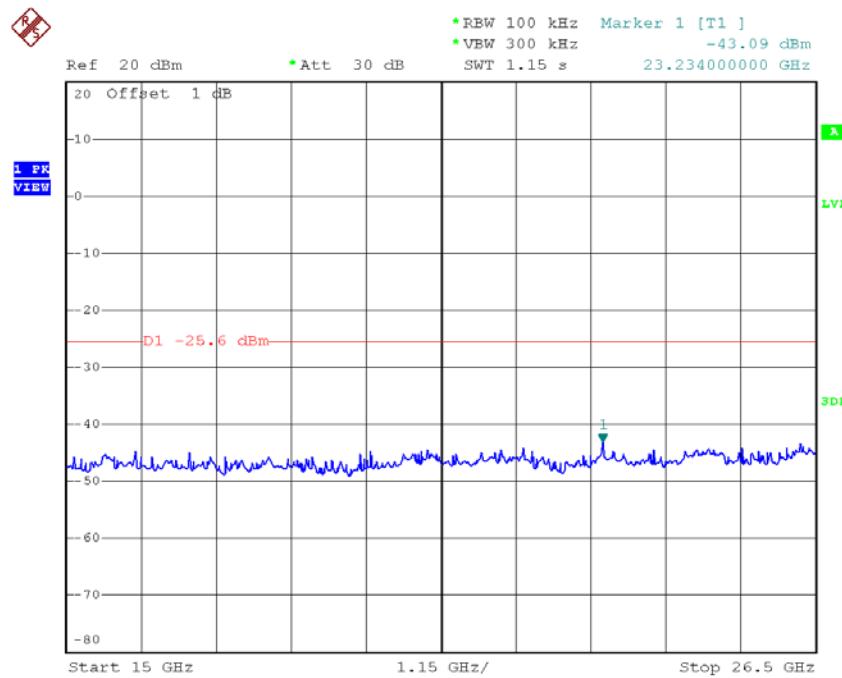
### TX G mode CH06 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:42:46

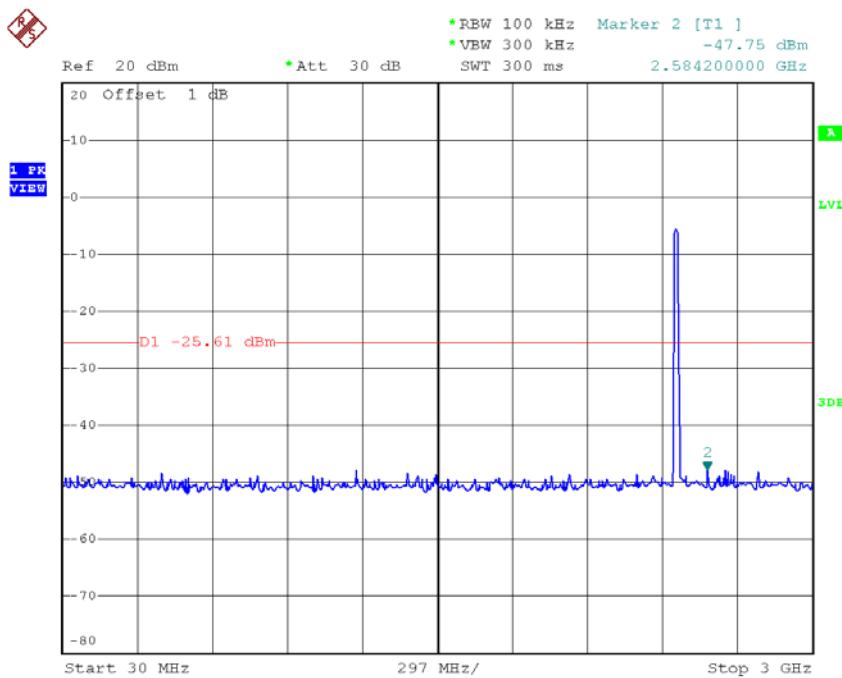


Date: 5.DEC.2016 19:42:55

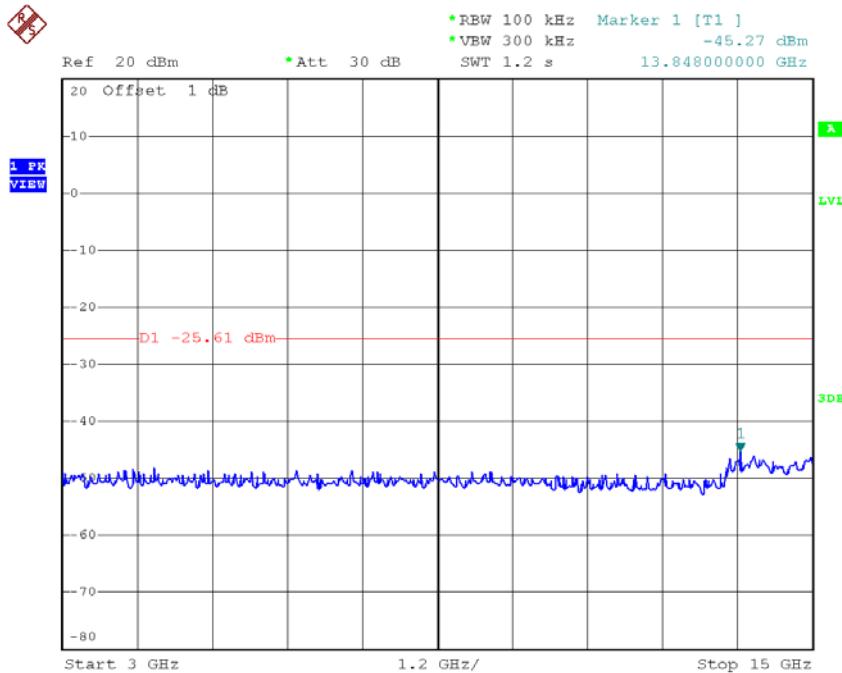


Date: 5.DEC.2016 19:43:03

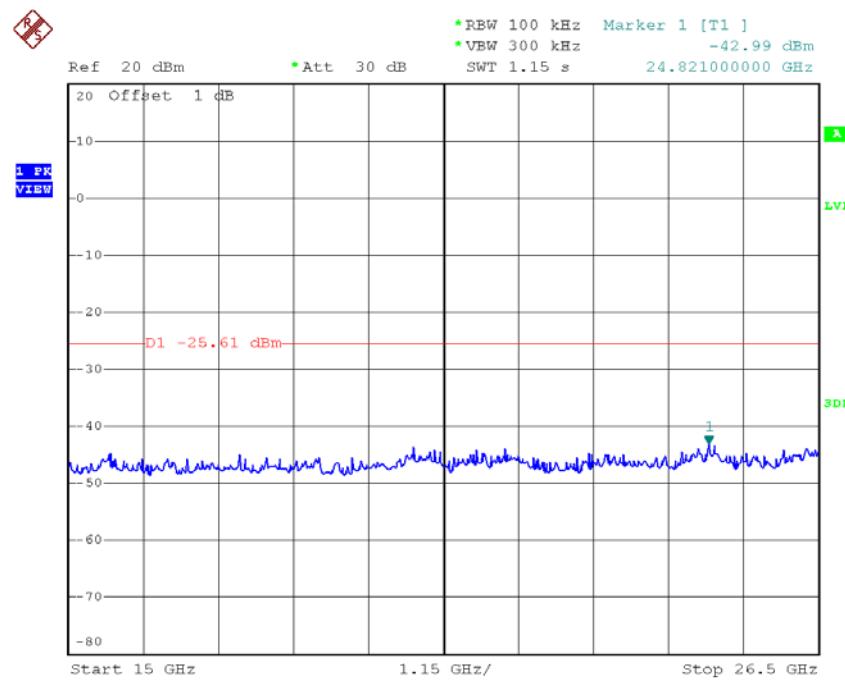
## TX G mode CH11 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:44:08



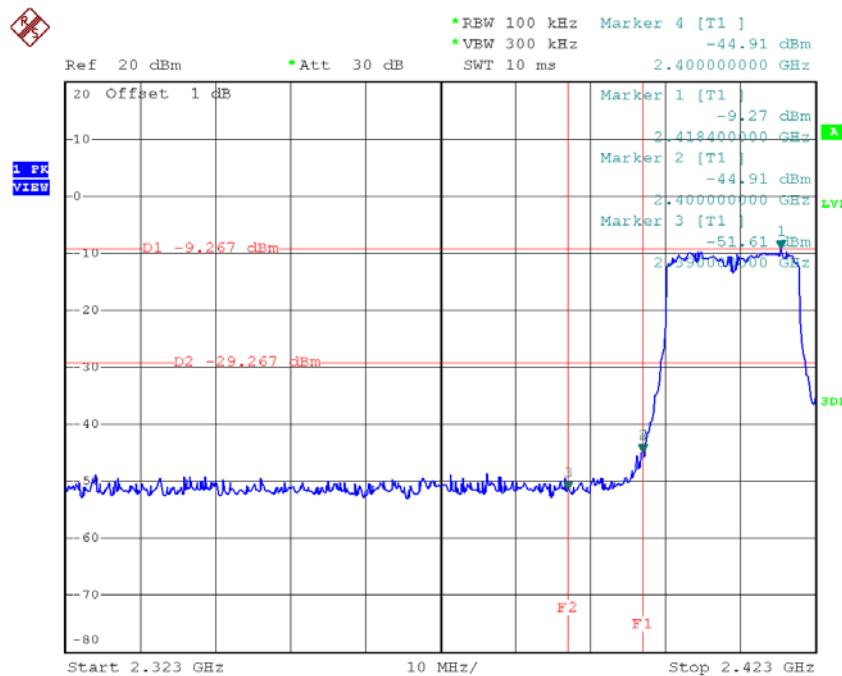
Date: 5.DEC.2016 19:44:16



Date: 5.DEC.2016 19:44:25

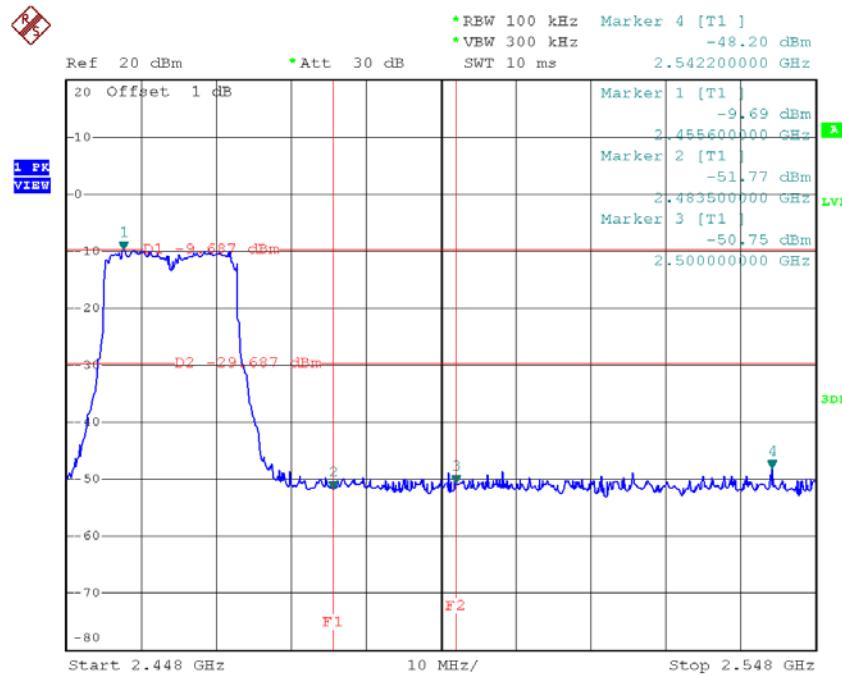
**Test Mode : TX N-20M Mode**

### TX HT20 mode CH01



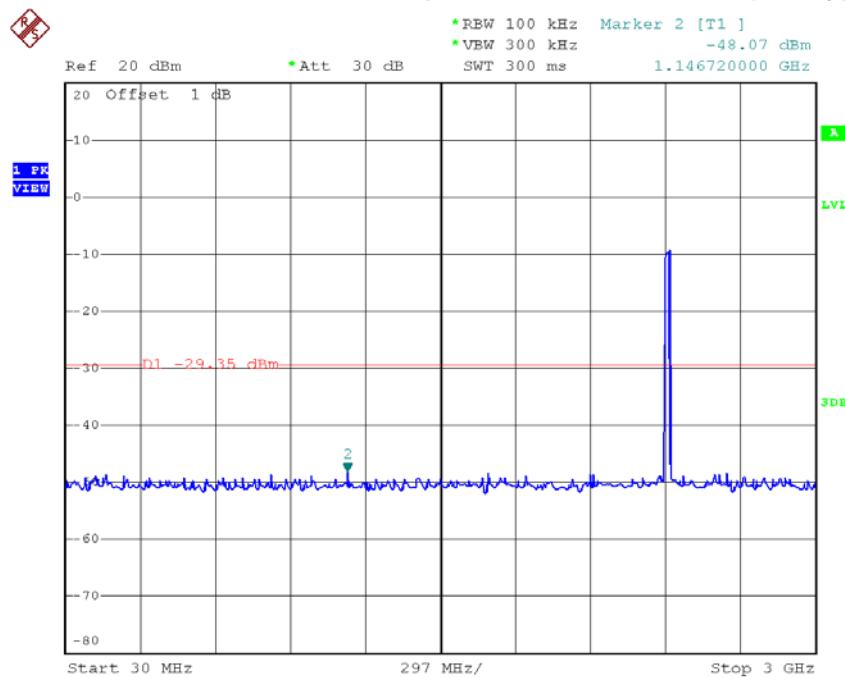
Date: 5.DEC.2016 19:46:49

### TX HT20 mode CH11

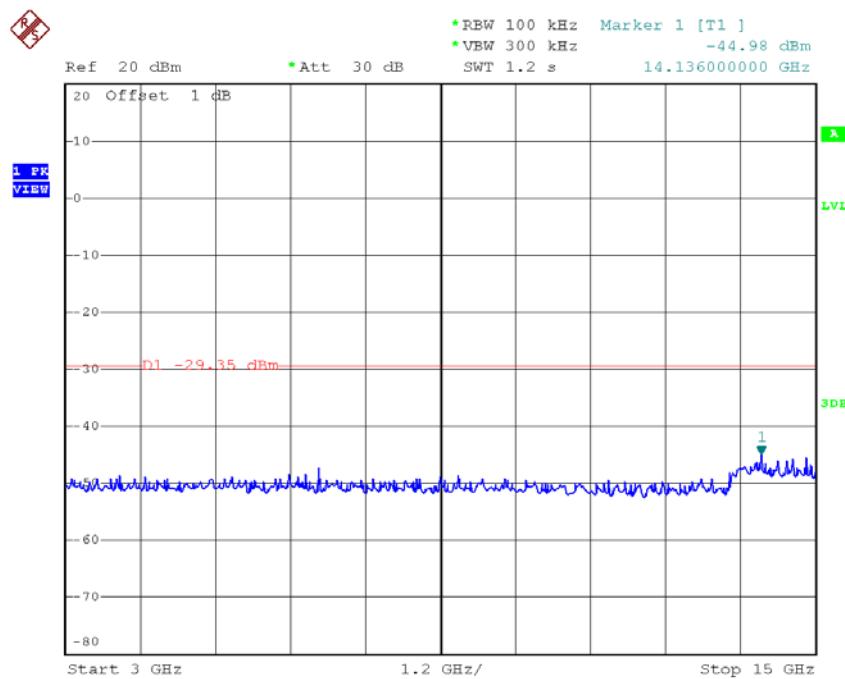


Date: 5.DEC.2016 19:51:05

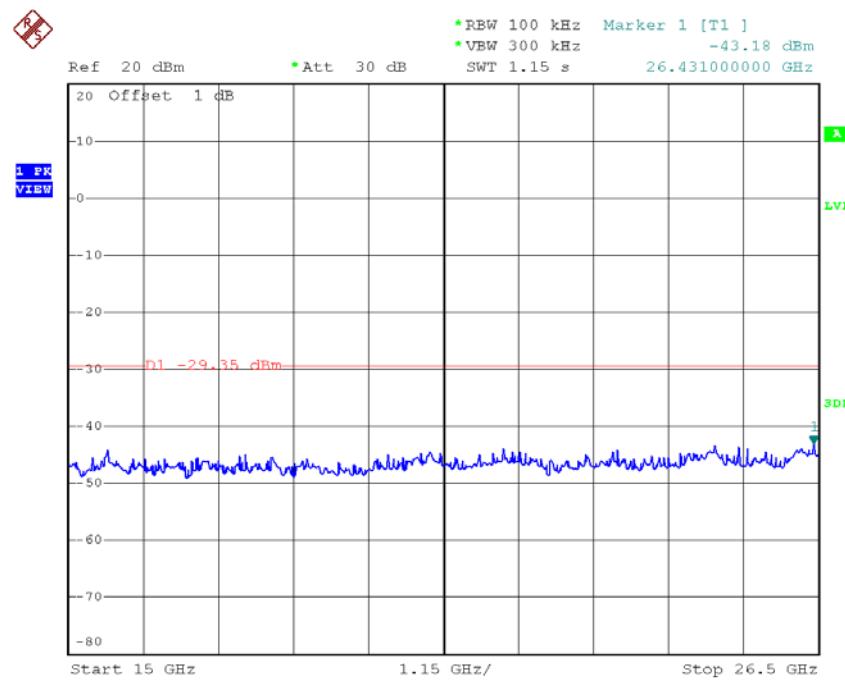
## TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:46:24

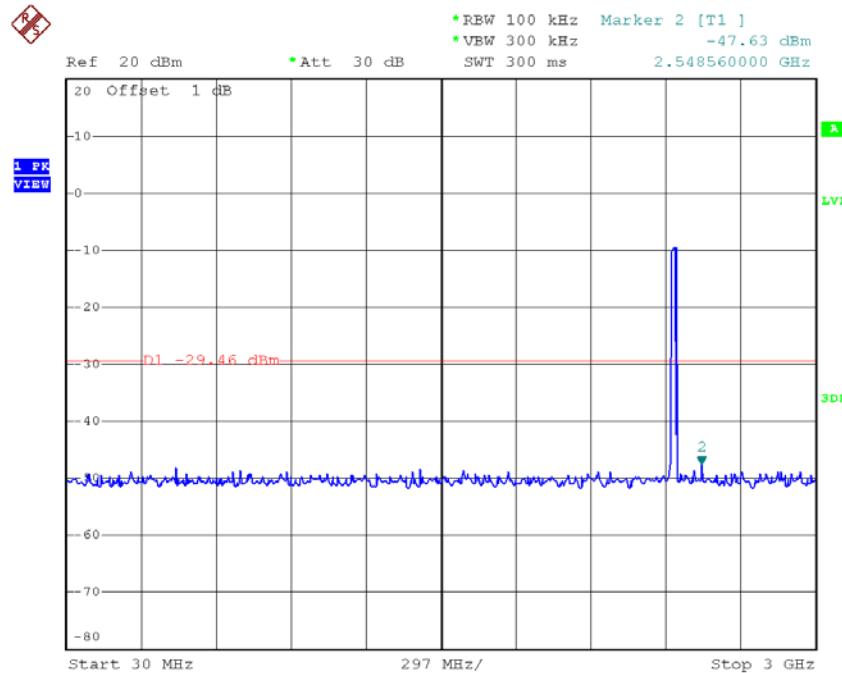


Date: 5.DEC.2016 19:46:33

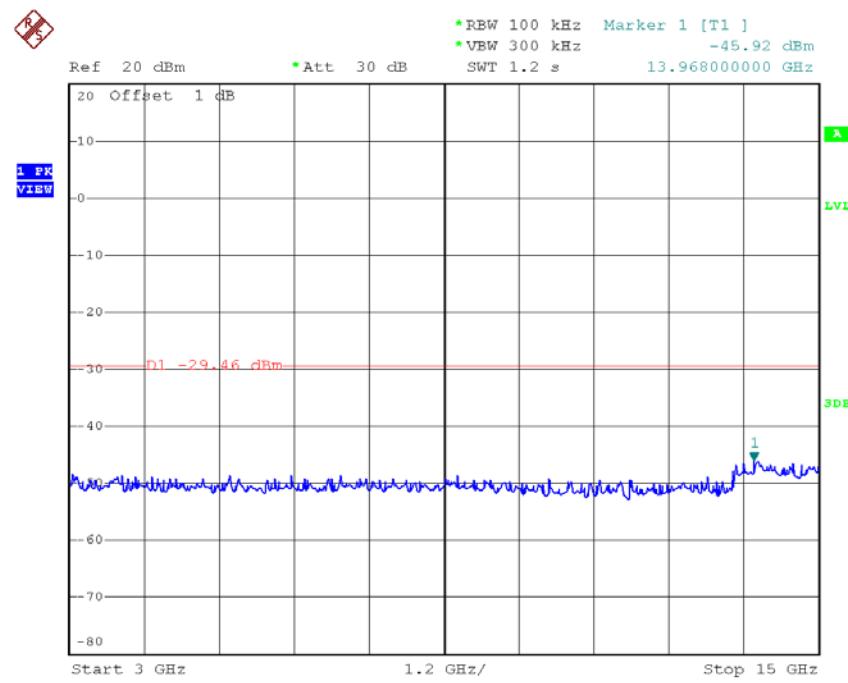


Date: 5.DEC.2016 19:46:41

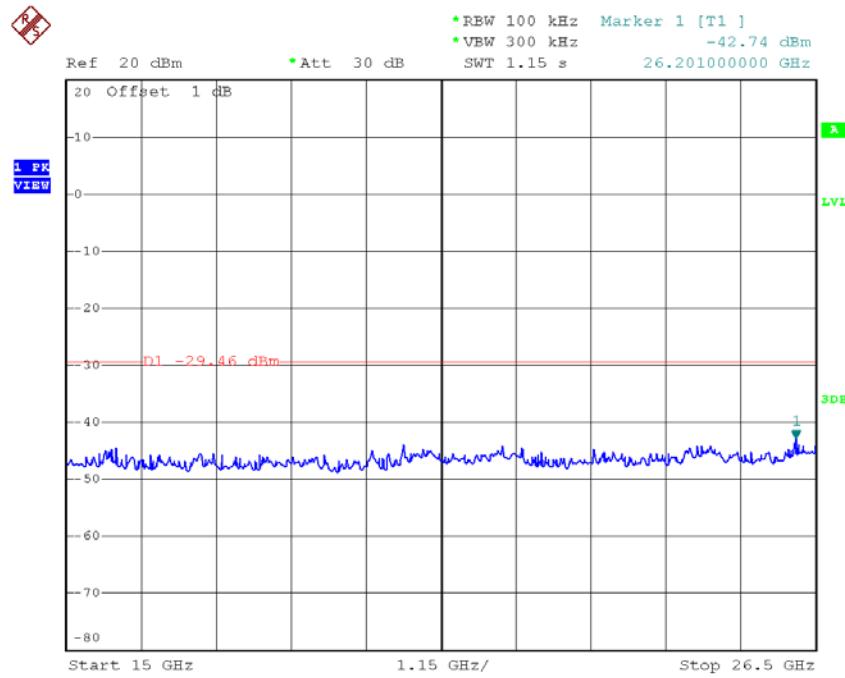
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:48:27

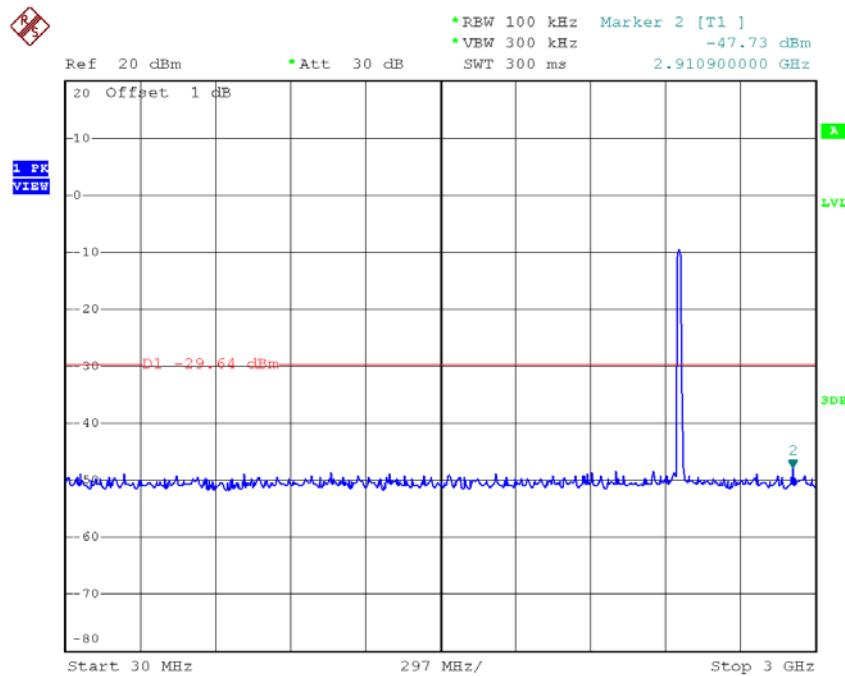


Date: 5.DEC.2016 19:48:36

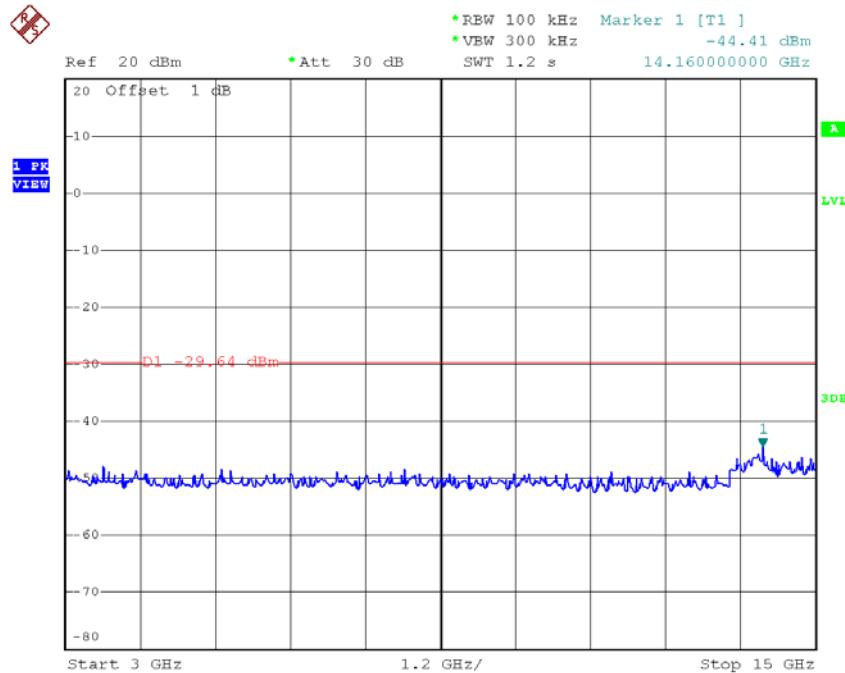


Date: 5.DEC.2016 19:48:44

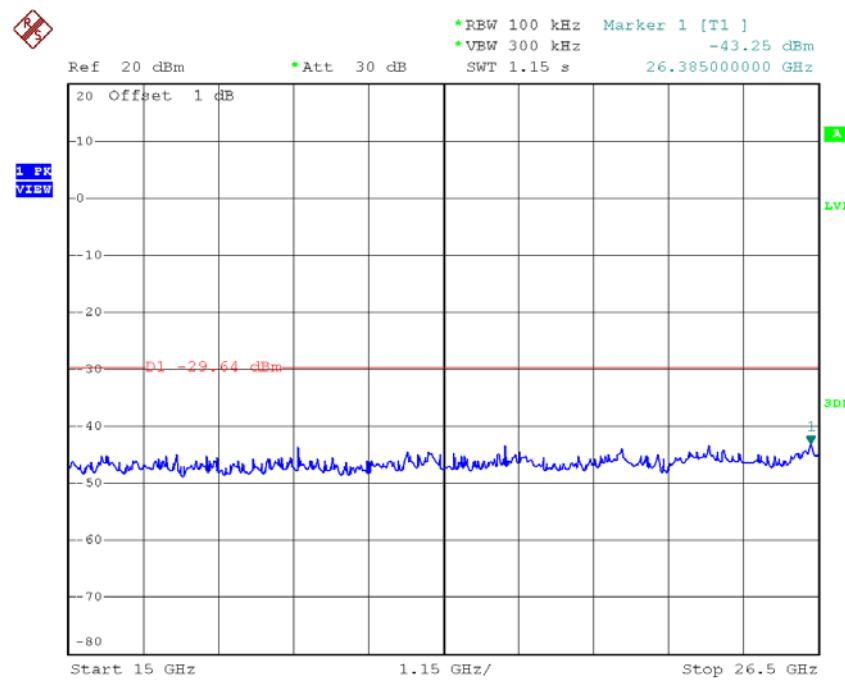
## TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 5.DEC.2016 19:50:41



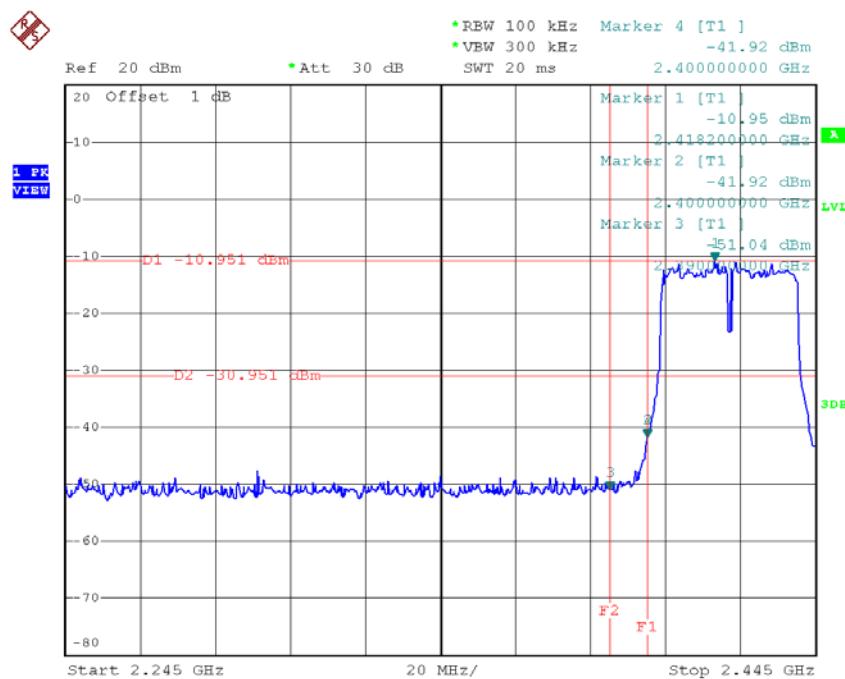
Date: 5.DEC.2016 19:50:49



Date: 5.DEC.2016 19:50:57

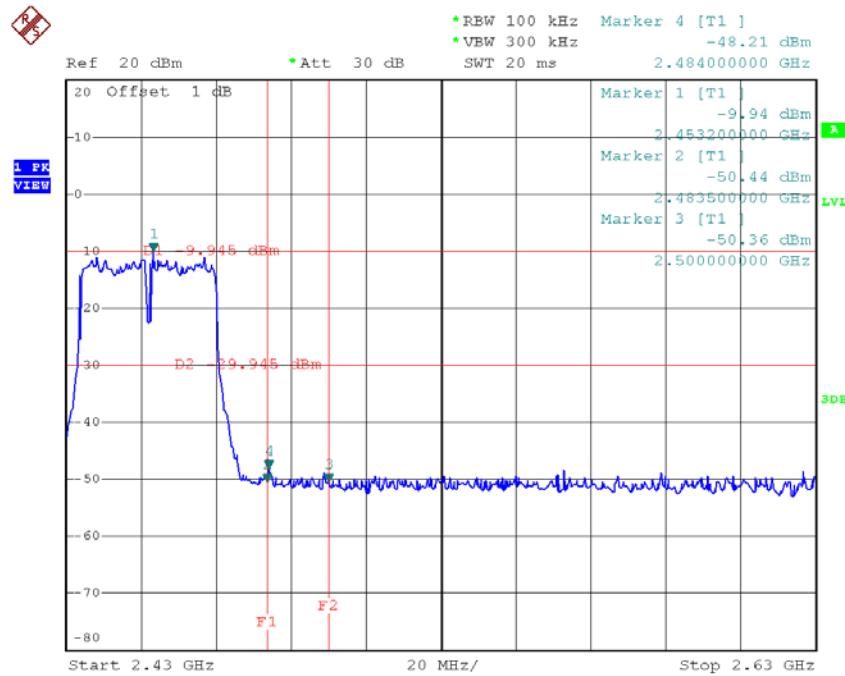
**Test Mode : TX N-40M Mode**

### TX HT40 mode CH03



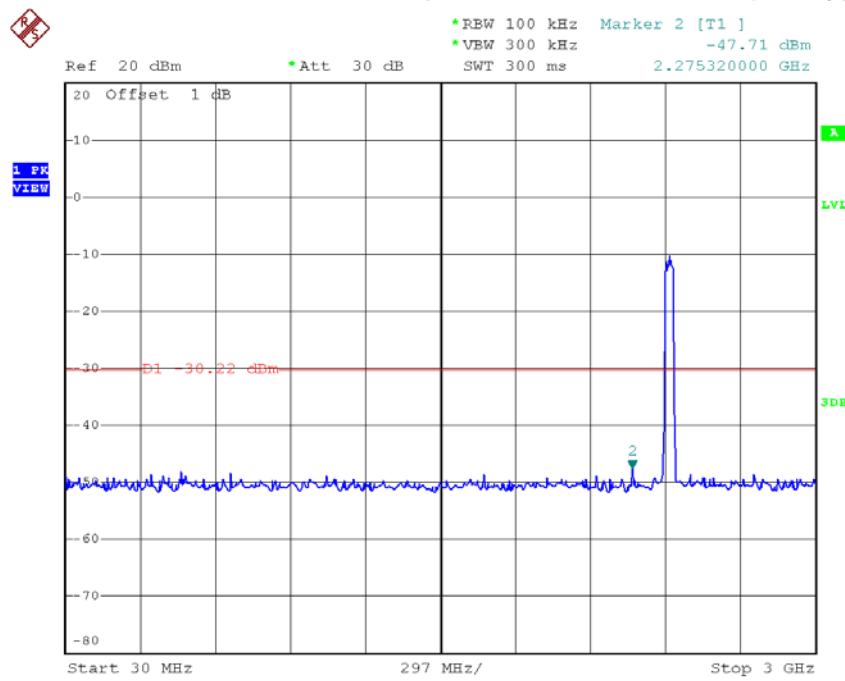
Date: 5.DEC.2016 20:21:11

### TX HT40 mode CH09

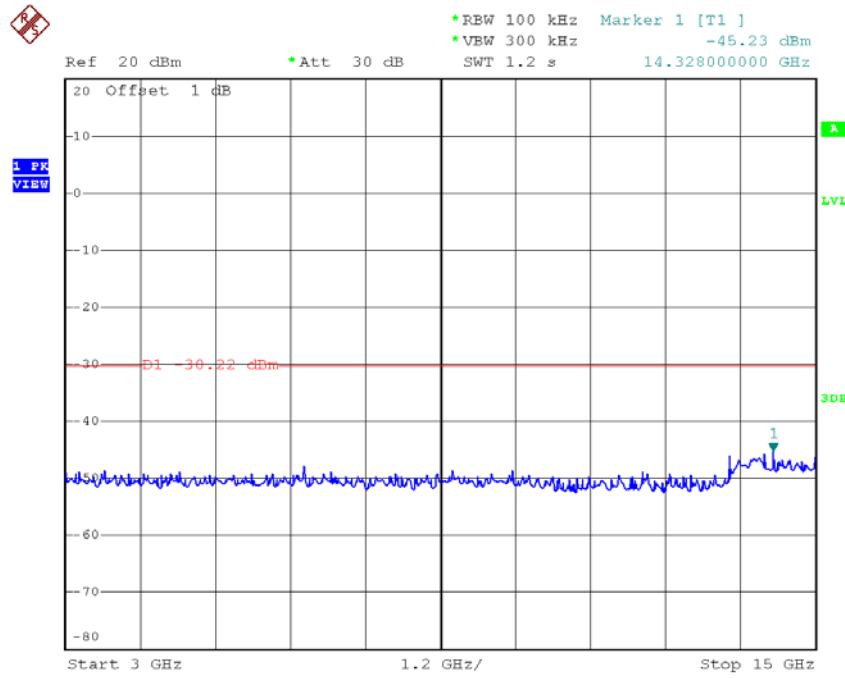


Date: 5.DEC.2016 20:25:54

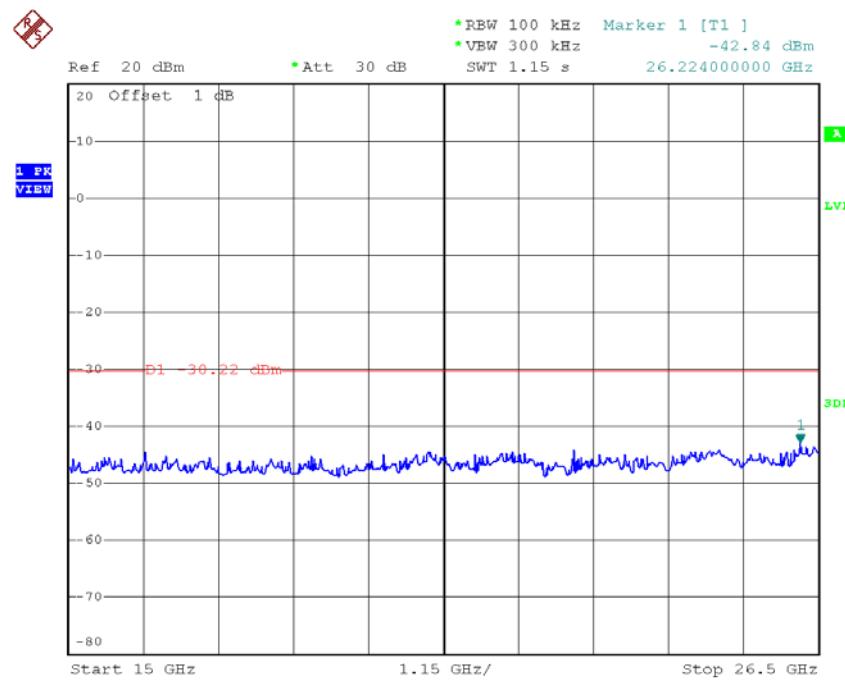
## TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 5.DEC.2016 20:20:47

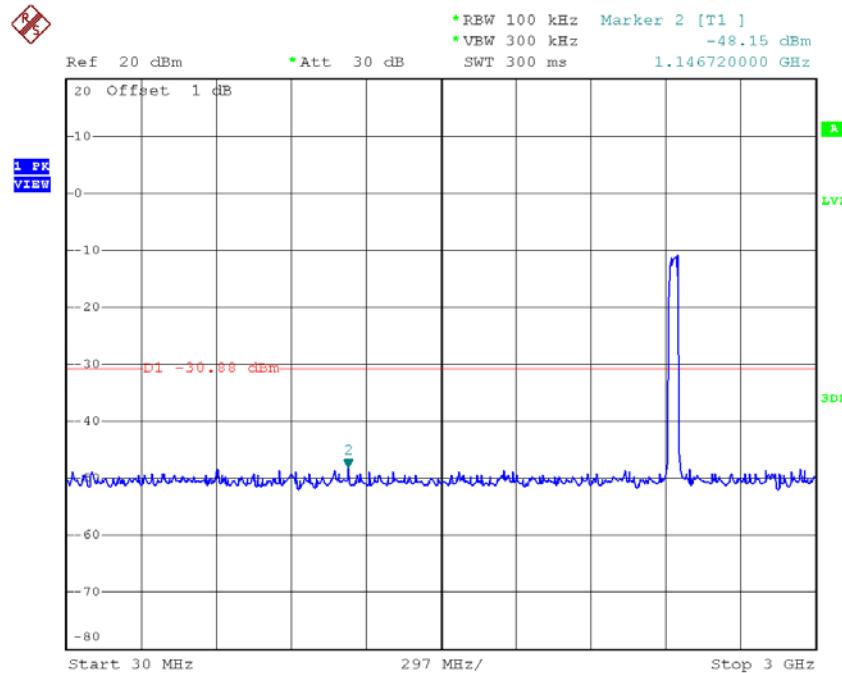


Date: 5.DEC.2016 20:20:55

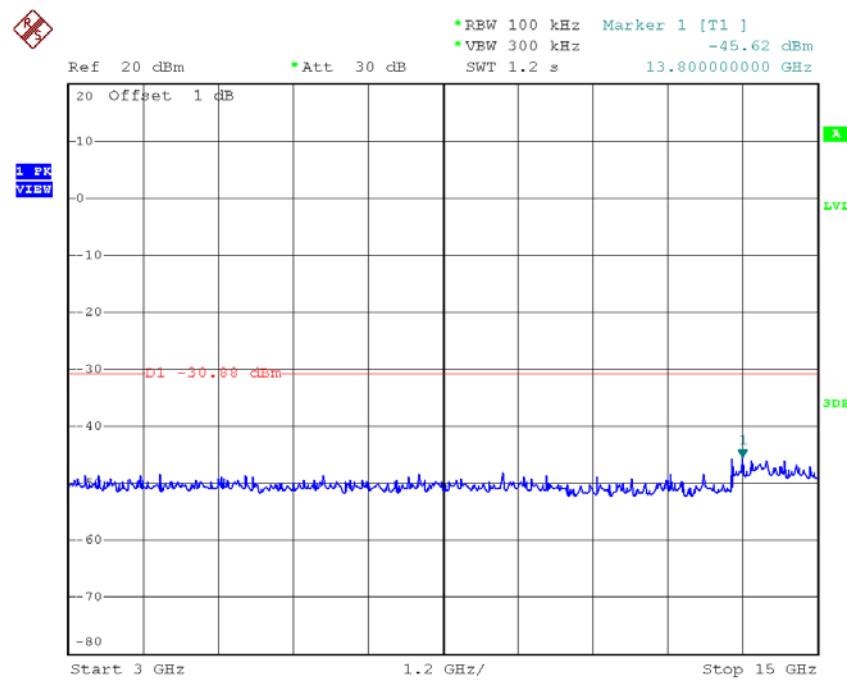


Date: 5.DEC.2016 20:21:04

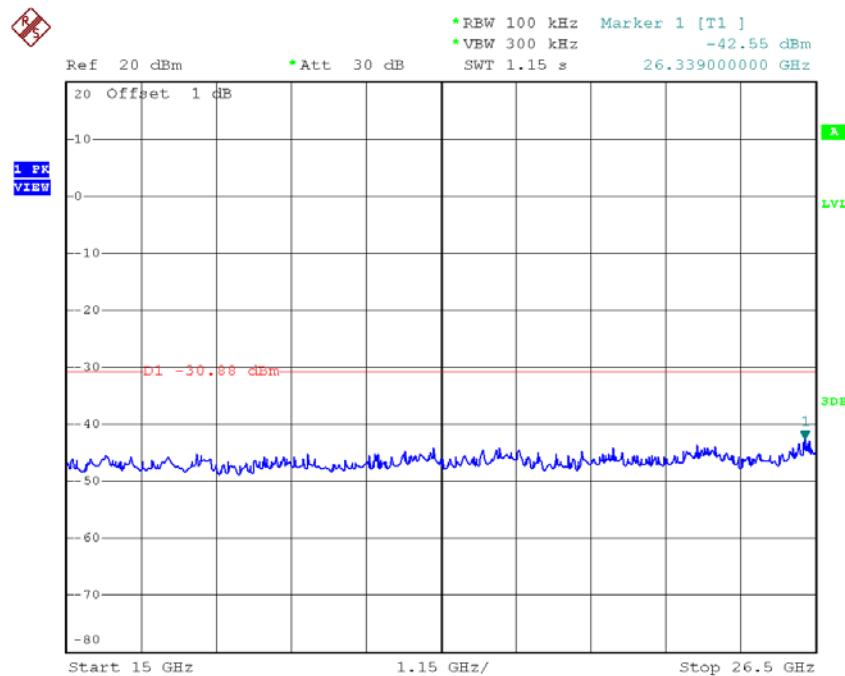
### TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 5.DEC.2016 20:23:45

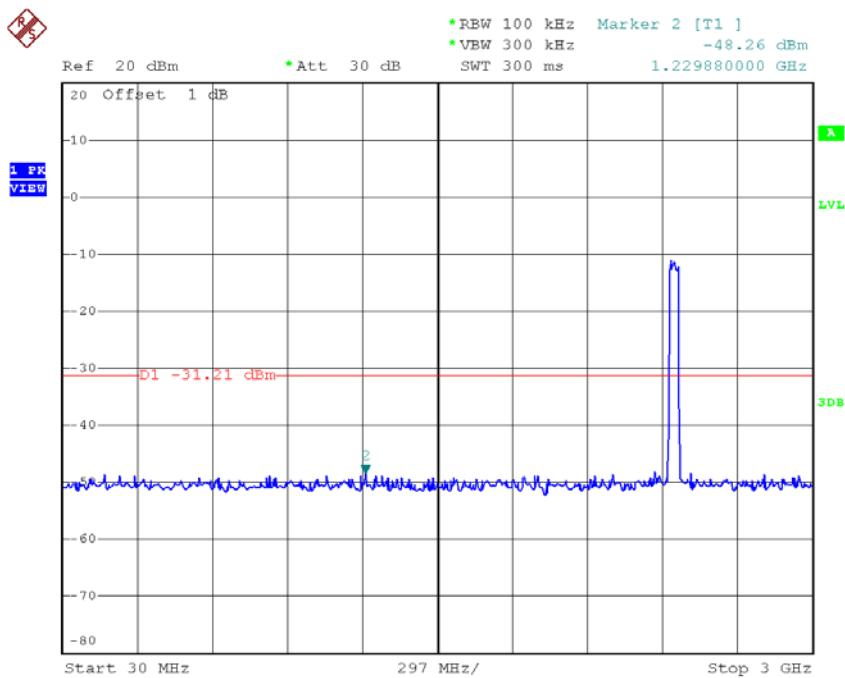


Date: 5.DEC.2016 20:23:54

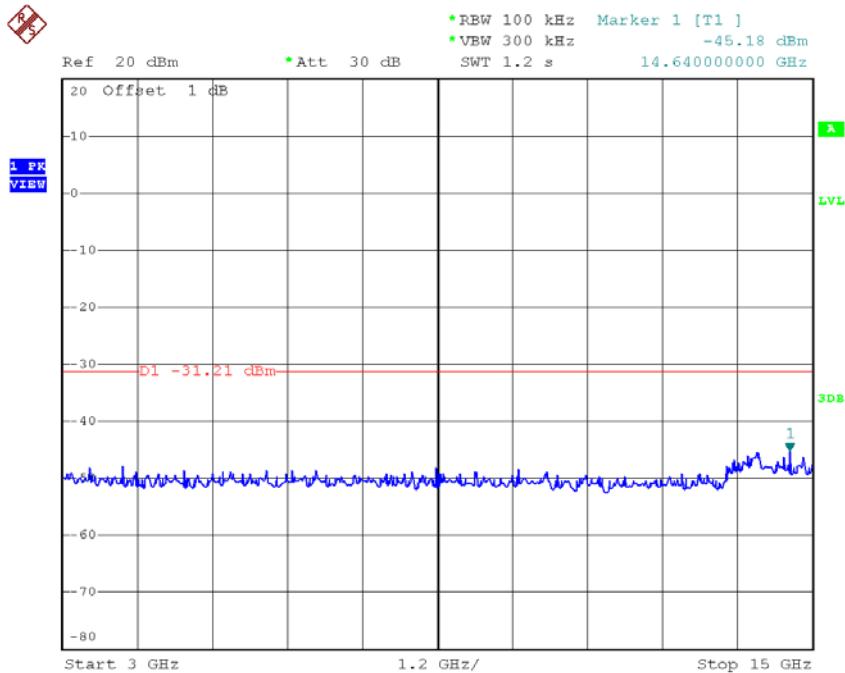


Date: 5.DEC.2016 20:24:14

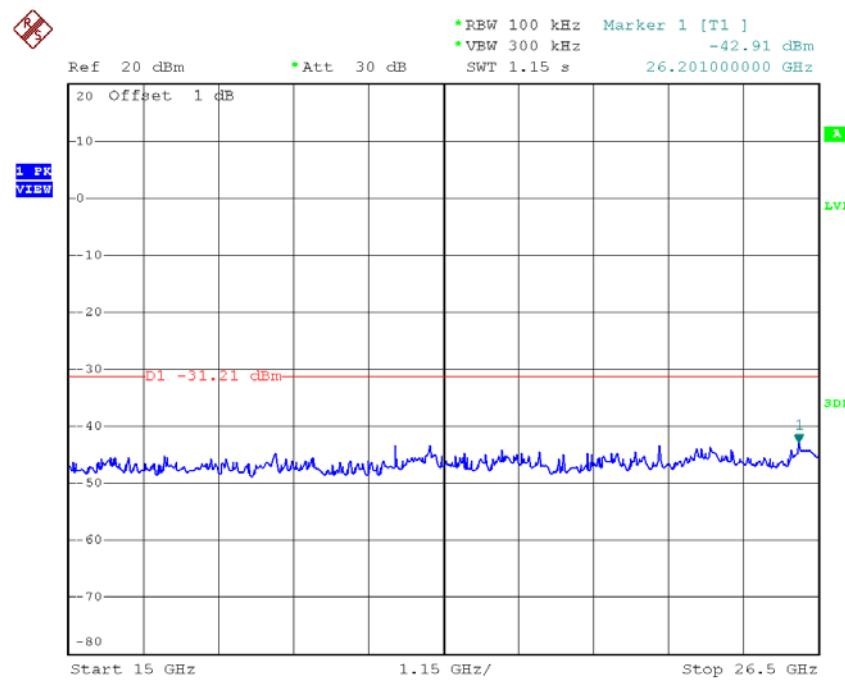
## TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 5.DEC.2016 20:25:29



Date: 5.DEC.2016 20:25:38



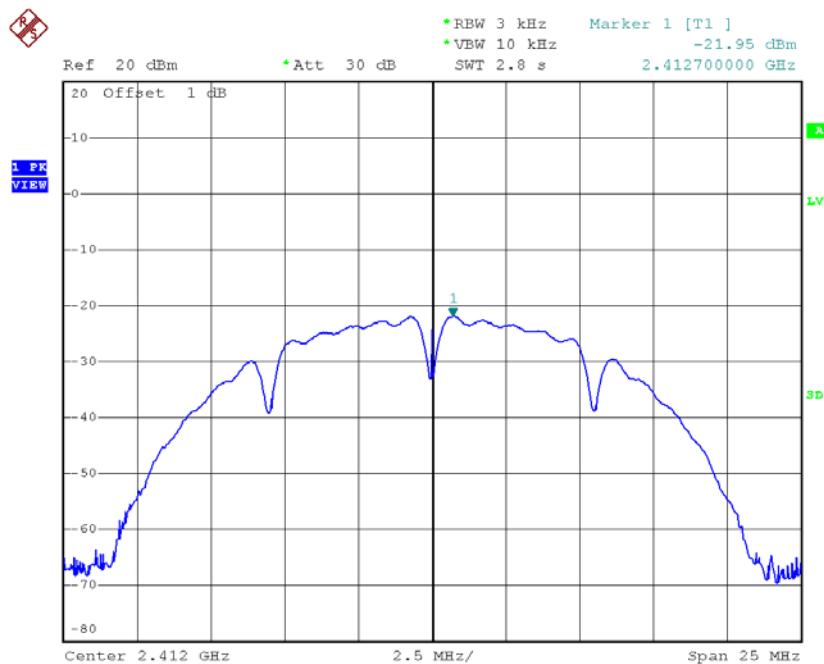
Date: 5.DEC.2016 20:25:46

## ATTACHMENT - POWER SPECTRAL DENSITY

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

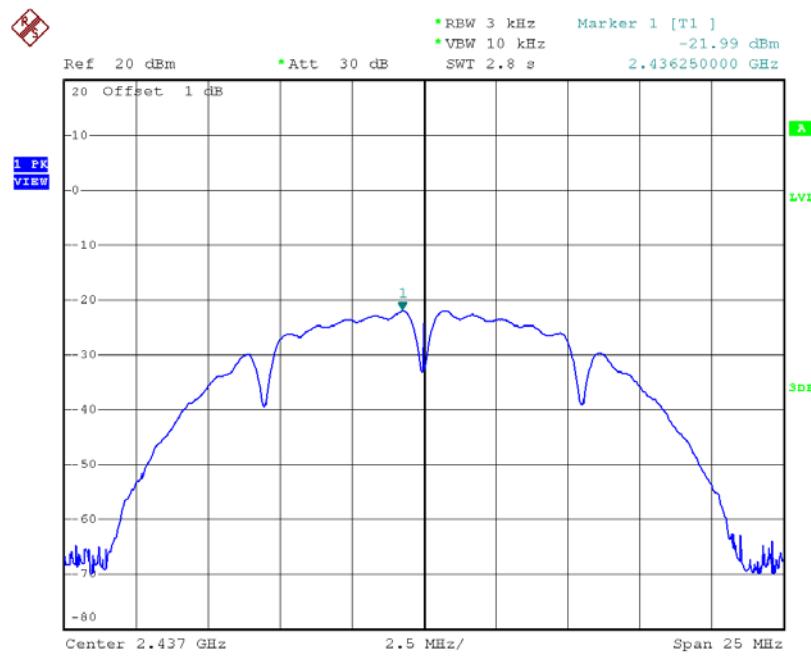
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-21.95	0.0064	8.00	Complies
2437	-21.99	0.0063	8.00	Complies
2462	-21.65	0.0068	8.00	Complies

## TX CH01



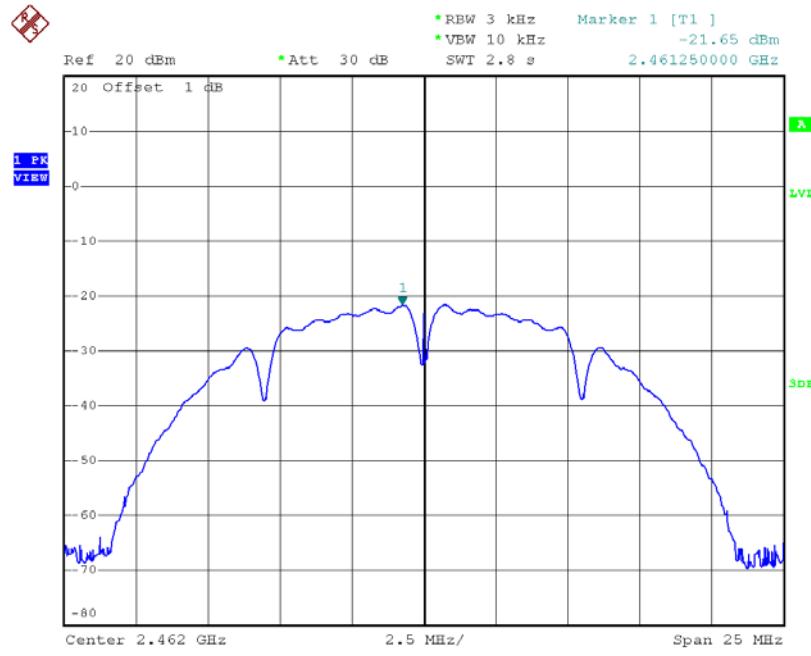
Date: 5.DEC.2016 19:34:46

## TX CH06



Date: 5.DEC.2016 19:36:59

## TX CH11

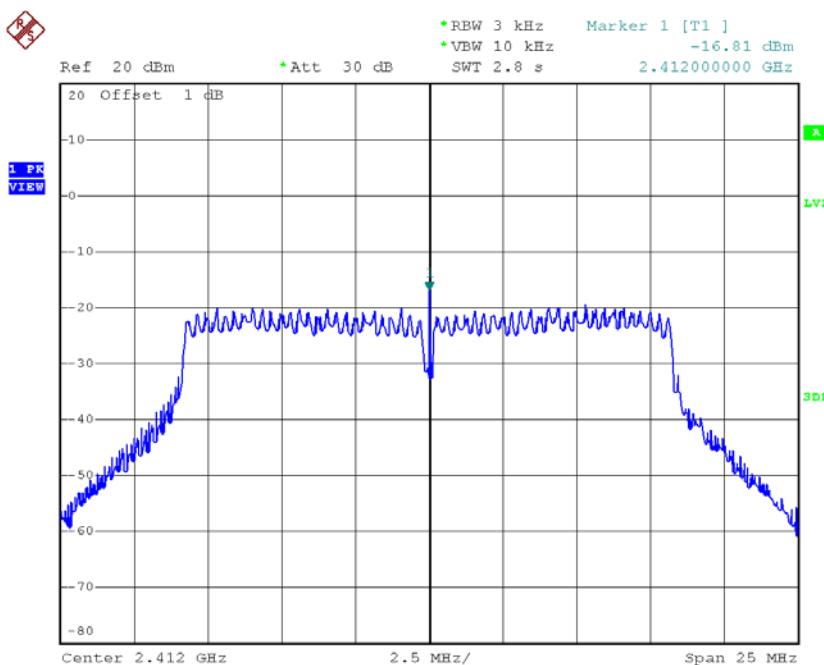


Date: 5.DEC.2016 19:39:02

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

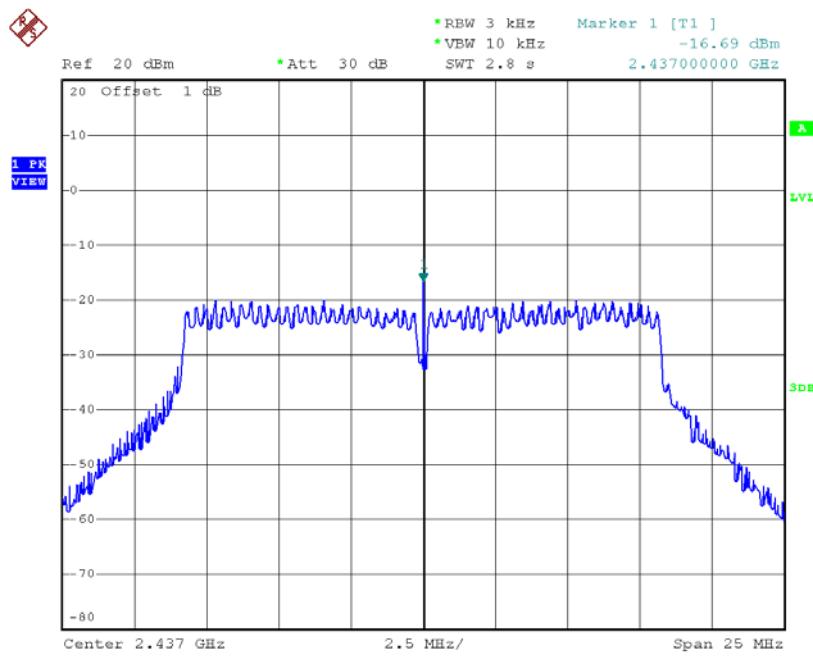
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.81	0.0208	8.00	Complies
2437	-16.69	0.0214	8.00	Complies
2462	-16.64	0.0217	8.00	Complies

## TX CH01



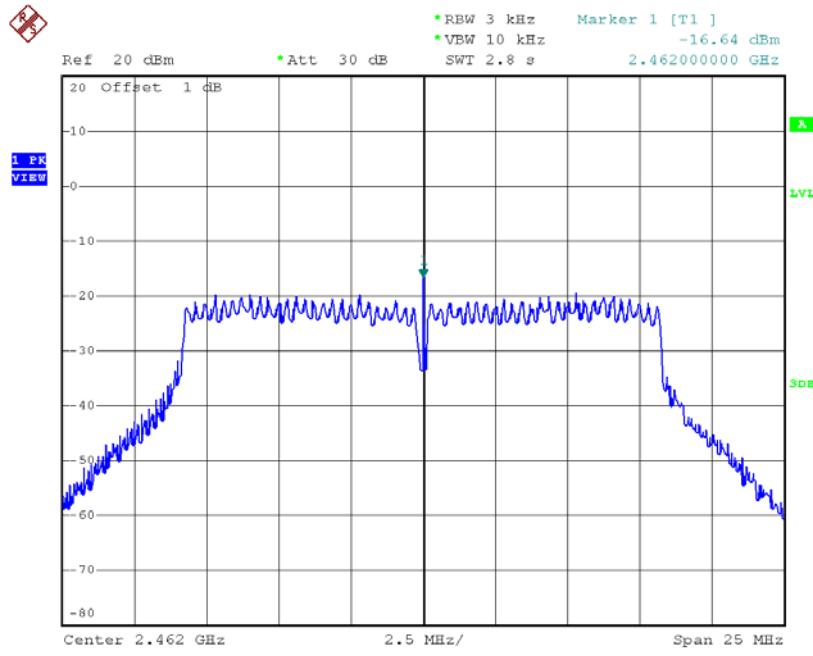
Date: 5.DEC.2016 19:41:36

## TX CH06



Date: 5.DEC.2016 19:43:12

## TX CH11

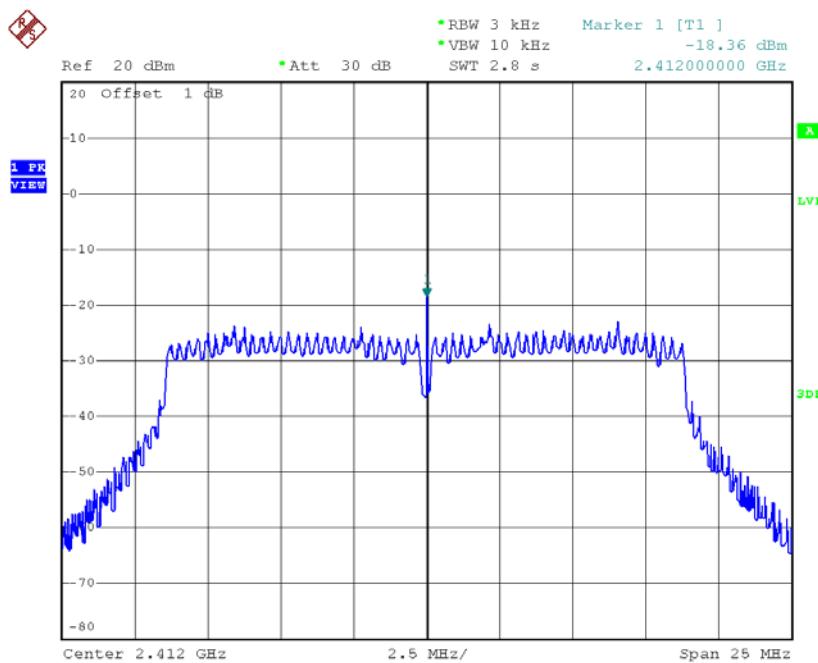


Date: 5.DEC.2016 19:44:41

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

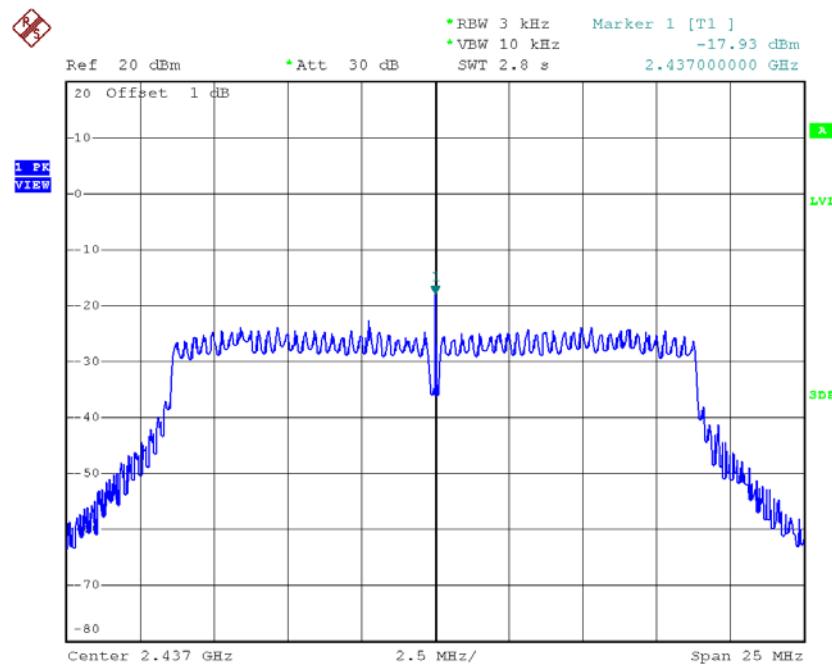
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-18.36	0.0146	8.00	Complies
2437	-17.93	0.0161	8.00	Complies
2462	-17.85	0.0164	8.00	Complies

## TX CH01



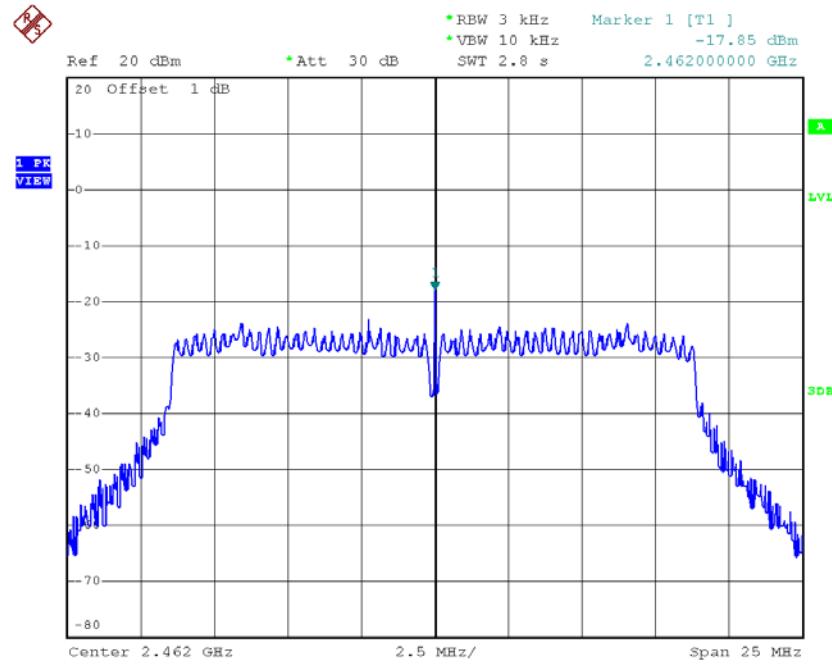
Date: 5.DEC.2016 19:46:58

## TX CH06



Date: 5.DEC.2016 19:48:53

## TX CH11

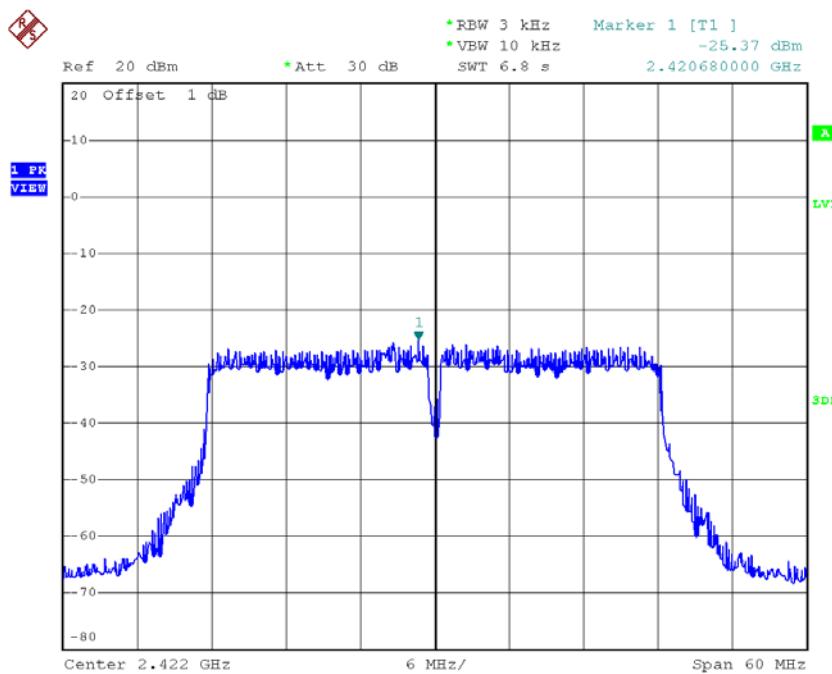


Date: 5.DEC.2016 19:51:14

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

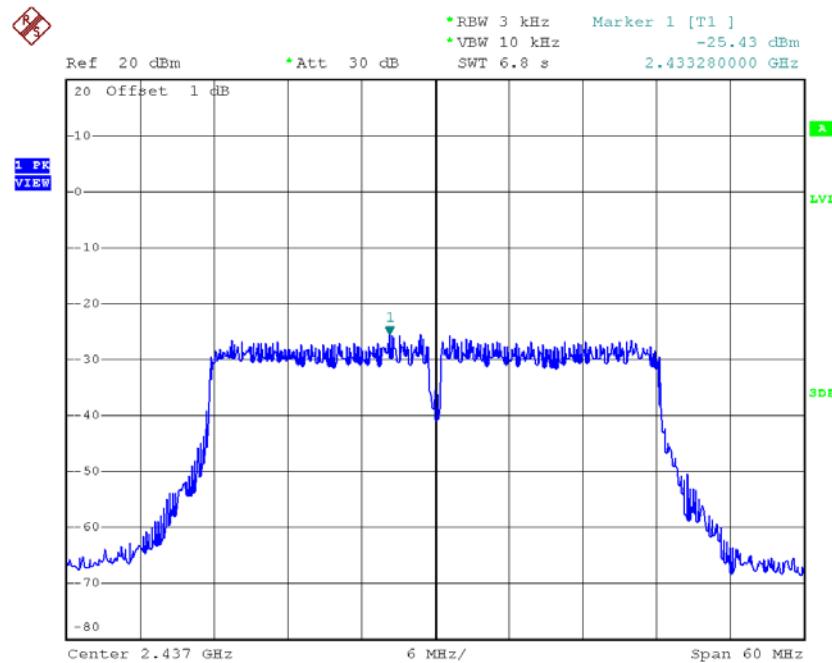
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-25.37	0.0029	8.00	Complies
2437	-25.43	0.0029	8.00	Complies
2452	-25.80	0.0026	8.00	Complies

## TX CH03



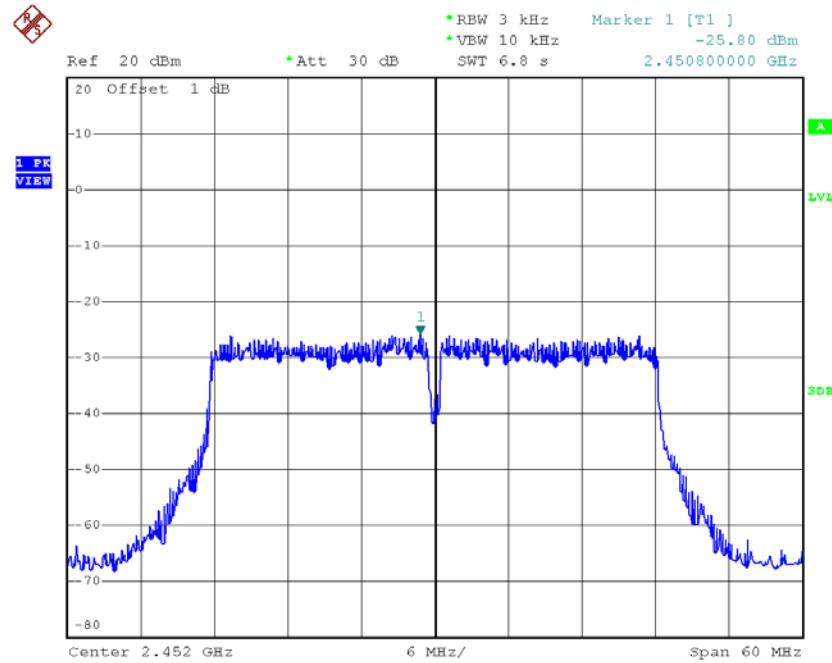
Date: 5.DEC.2016 20:21:23

## TX CH06



Date: 5.DEC.2016 20:24:06

## TX CH09



Date: 5.DEC.2016 20:26:06