

# FCC Radio Test Report

## FCC ID: QISEA380-135

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

**Project No.** : 1612C268  
**Equipment** : LTE CPE  
**Model Name** : eA380-135  
**Applicant** : Huawei Technologies Co., Ltd.  
**Address** : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen, 518129, P.R.C

**Date of Receipt** : Dec. 27, 2016  
**Date of Test** : Dec. 27, 2016 ~ Feb. 14, 2017  
**Issued Date** : Feb. 15, 2017  
**Tested by** : BTL Inc.

**Testing Engineer** : Paul Li  
(Paul Li)

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

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

# **B T L I N C .**

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

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

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1612C268	Original Issue.	Feb. 15, 2017

## 1. CERTIFICATION

Equipment : LTE CPE  
Brand Name : HUAWEI  
Model Name : eA380-135  
Applicant : Huawei Technologies Co. ,Ltd.  
Manufacturer : Huawei Technologies Co. ,Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District Shenzhen,518129, P.R.C  
Factory : Shenzhen Zowee Technology.co.,ltd  
Address : Shenzhen songgang town pond under chung industrial avenue with rich  
industrial area  
Date of Test : Dec. 27, 2016 ~ Jan. 10, 2017  
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-1-1612C268) 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):

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

**NOTE:**

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

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.  
 BTL's test firm number for FCC: 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	LTE CPE	
Brand Name	HUAWEI	
Model Name	eA380-135	
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 135 Mbps
	Conducted Output Power (Max.)	802.11b: 20.36dBm 802.11g: 20.39dBm 802.11n(20MHz): 29.54dBm 802.11n(40MHz): 29.09dBm
	AVG Power (Max.)	802.11b: 16.31dBm 802.11g: 16.39dBm 802.11n(20MHz): 14.87dBm 802.11n(40MHz): 14.79dBm
Power Source	Supplied from PoE.	
Power Rating	I/P: AC 90V~264V, DC: 54V/650mA	
HW Version	VER.A	
SW Version	V100R001	

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	PCB	N/A	2
2	N/A	N/A	PCB	N/A	2

4.

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

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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

6dB Spectrum Bandwidth	
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

Maximum Conducted Output Power	
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

Power Spectral Density	
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:**

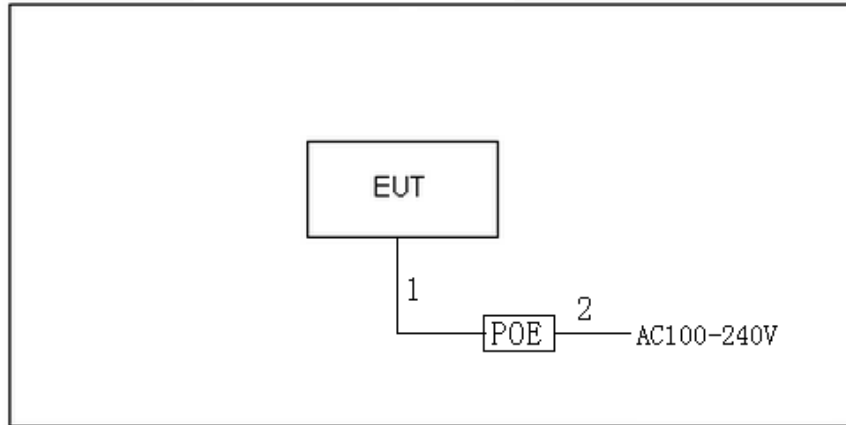
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (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	SSCOM/CMD		
Frequency (MHz)	2412	2437	2462
802.11b	15	16	15
802.11g	15	16	15
802.11n (20MHz)	58	62	57
Frequency	2422	2437	2452
802.11n (40MHz)	60	60	56

**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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.8M	RJ Cable
2	NO	NO	1.8M	AC Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average $\square$
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

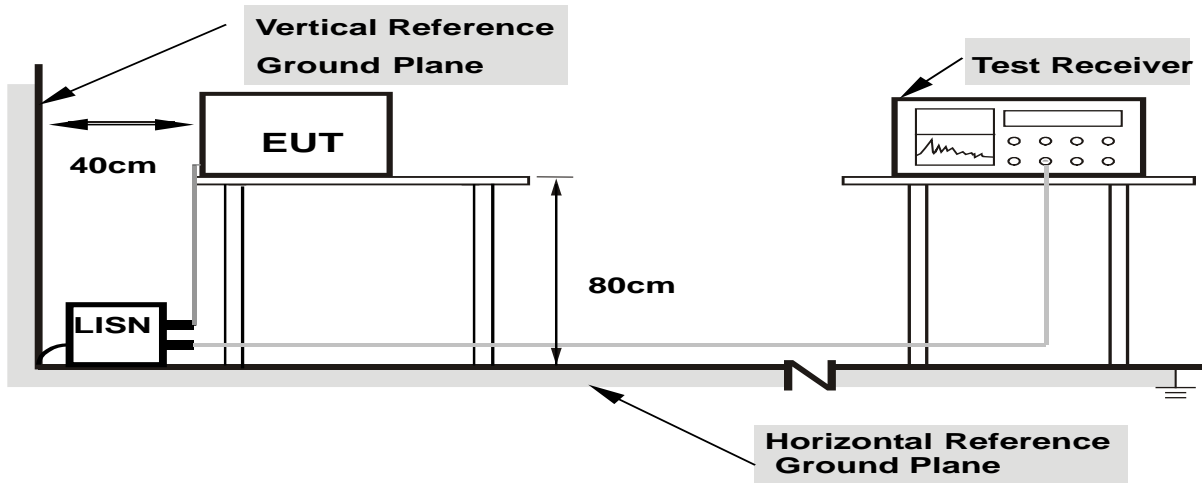
#### 4.1.2 TEST PROCEDURE

- 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**

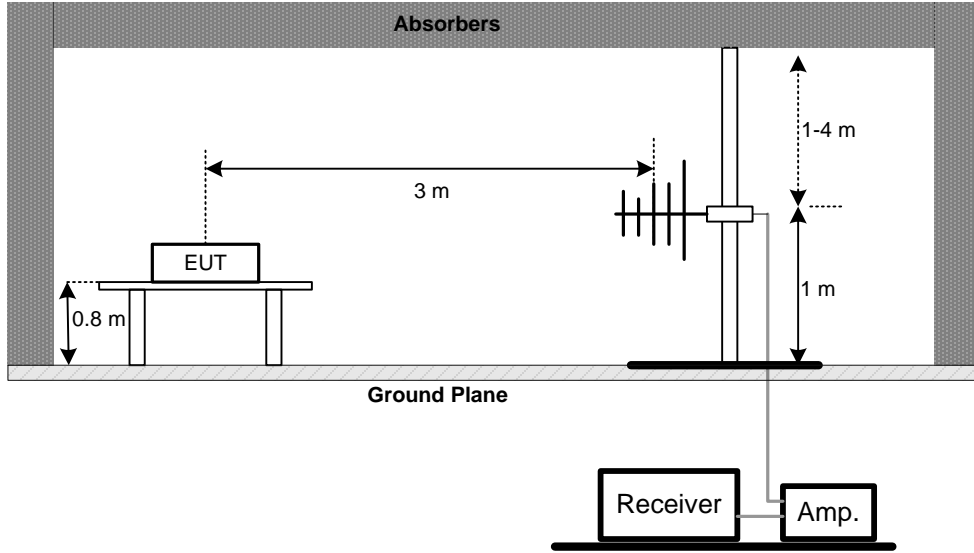
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

**4.2.3 DEVIATION FROM TEST STANDARD**

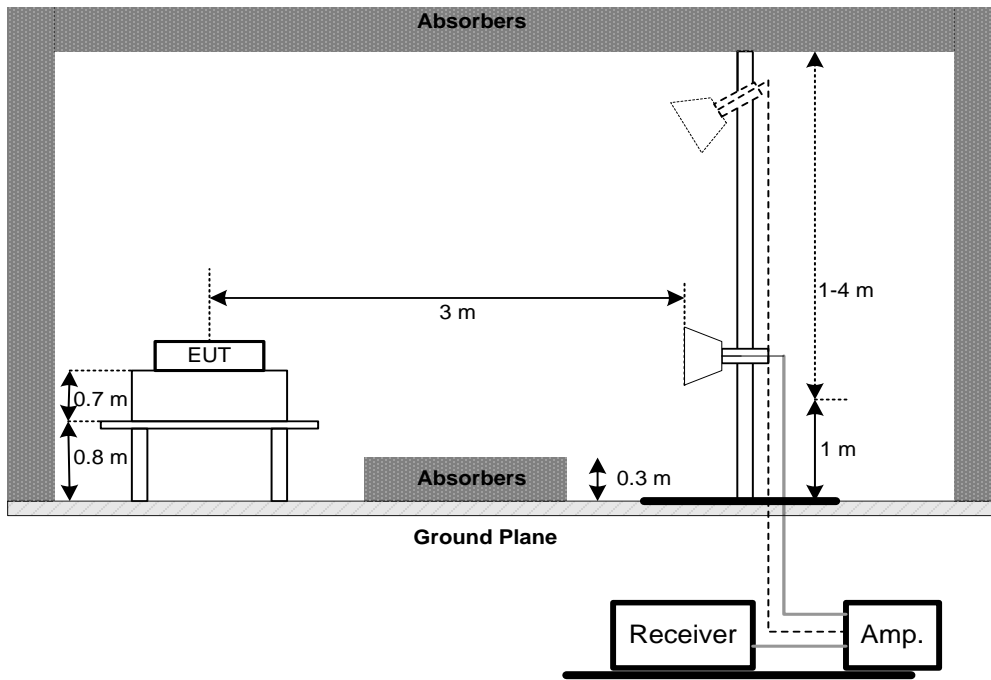
No deviation

**4.2.4 TEST SETUP**

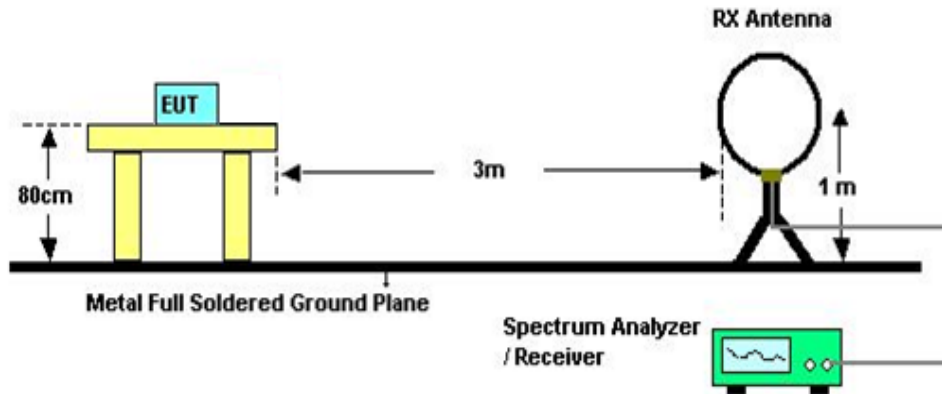
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



**4.2.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.2.6 EUT TEST CONDITIONS**

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

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

Please refer to the Attachment B

Remark:

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

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

Please refer to the Attachment C.

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

Please refer to the Attachment D.

Remark:

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

**5. BANDWIDTH TEST**

**5.1 APPLIED PROCEDURES**

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

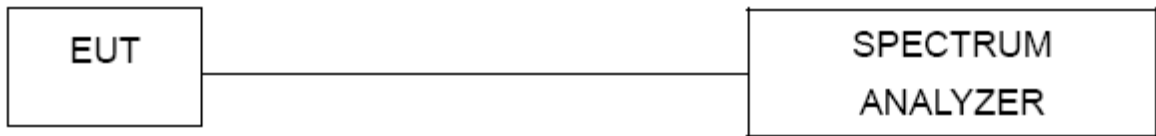
**5.1.1 TEST PROCEDURE**

- 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 &AVG POWER TEST**

**6.1 APPLIED PROCEDURES / LIMIT**

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

**6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

**6.1.2 DEVIATION FROM STANDARD**

No deviation.

**6.1.3 TEST SETUP**



**6.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**6.1.5 EUT TEST CONDITIONS**

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: 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

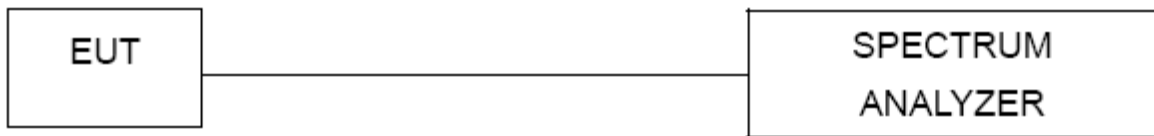
#### 8.1.1 TEST PROCEDURE

- 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	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017
5	Cable	emci	RG223(9KHz-30MHz)(5m)	N/A	Mar. 10, 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	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 27, 2017
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017
9	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
10	Cable	emci	EMC104-SM-SM-12000(12m)	N/A	Jul. 06, 2017
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Apr. 26, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 26, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

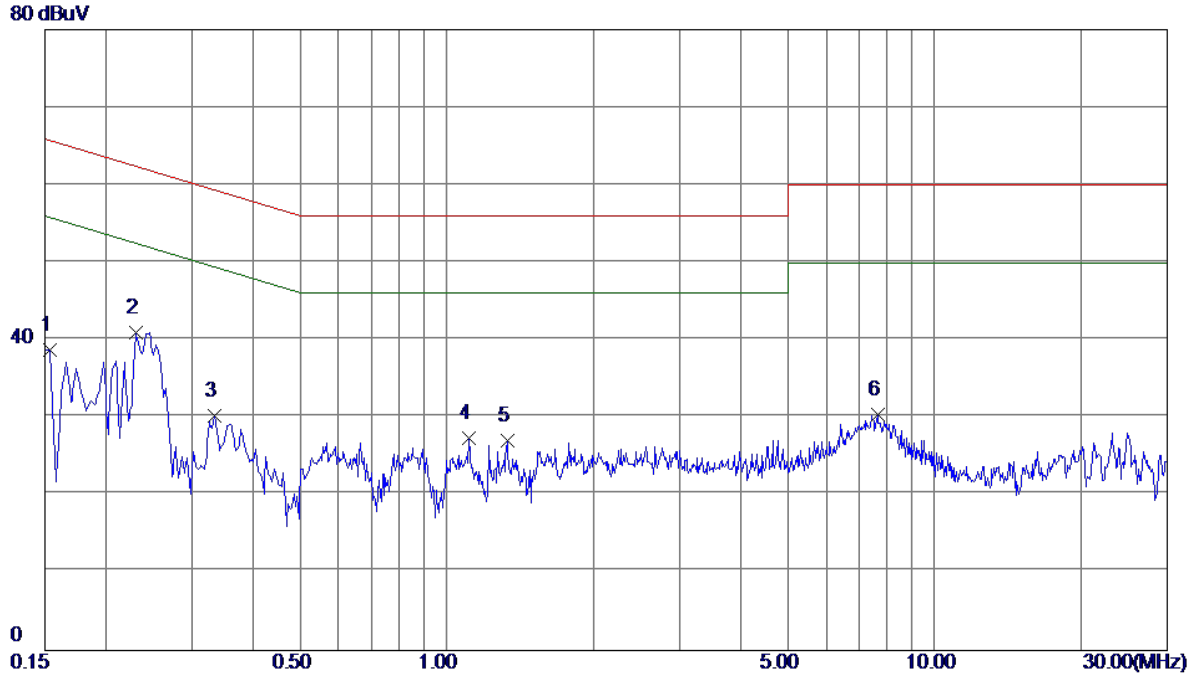
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

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

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode

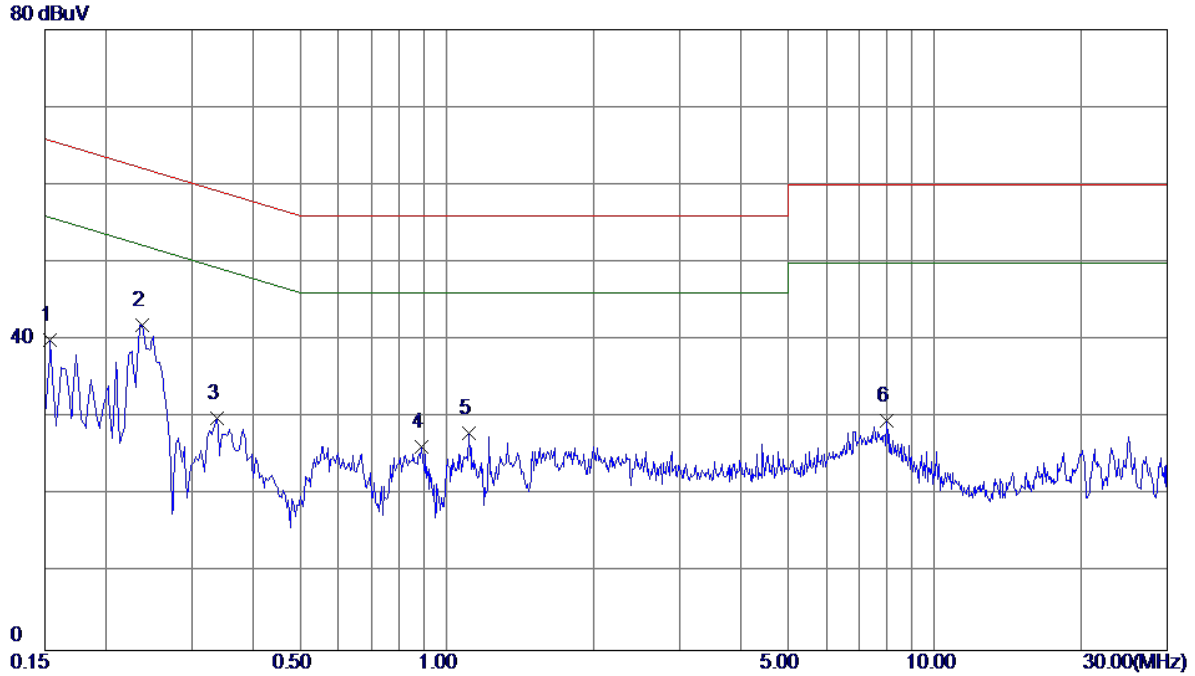
**Line**



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1539	29.20	9.52	38.72	65.79	-27.07	Peak	
2 *	0.2300	31.45	9.53	40.98	62.45	-21.47	Peak	
3	0.3339	20.65	9.53	30.18	59.35	-29.17	Peak	
4	1.1100	17.61	9.76	27.37	56.00	-28.63	Peak	
5	1.3300	17.30	9.81	27.11	56.00	-28.89	Peak	
6	7.6340	20.25	10.17	30.42	60.00	-29.58	Peak	

Test Mode : TX Mode

**Neutral**

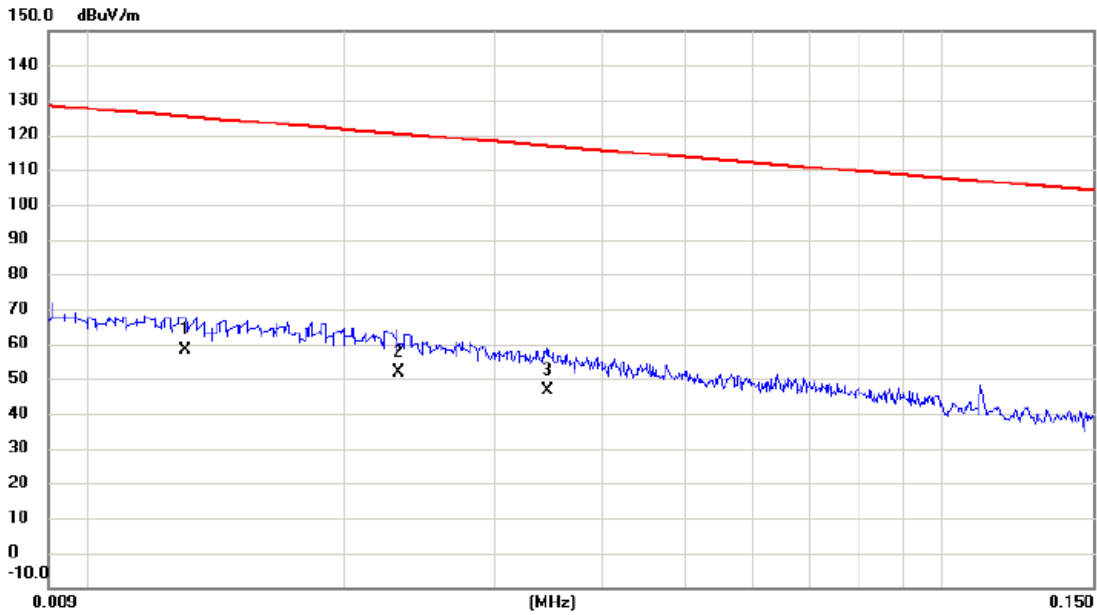


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1539	30.52	9.50	40.02	65.79	-25.77	Peak	
2 *	0.2380	32.37	9.53	41.90	62.17	-20.27	Peak	
3	0.3379	20.40	9.53	29.93	59.25	-29.32	Peak	
4	0.8860	16.64	9.64	26.28	56.00	-29.72	Peak	
5	1.1100	18.27	9.66	27.93	56.00	-28.07	Peak	
6	7.9860	19.56	10.08	29.64	60.00	-30.36	Peak	

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

Test Mode: TX B MODE CHANNEL 01

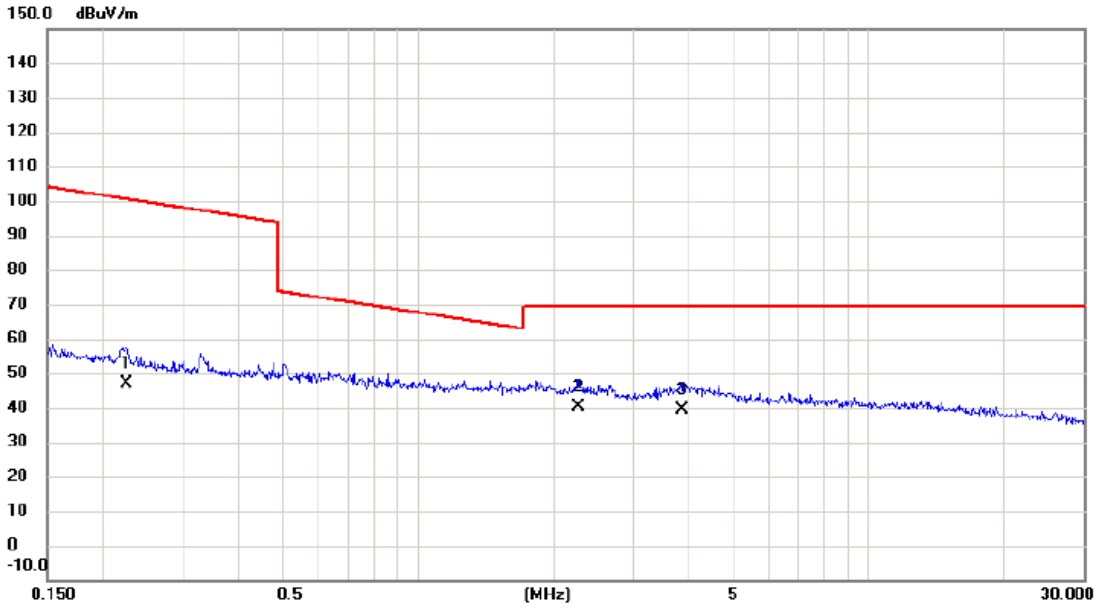
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0130	34.30	23.94	58.24	125.33	-67.09	AVG	
2		0.0231	28.60	23.14	51.74	120.33	-68.59	AVG	
3		0.0346	24.80	21.72	46.52	116.82	-70.30	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 0°  
Horizontal



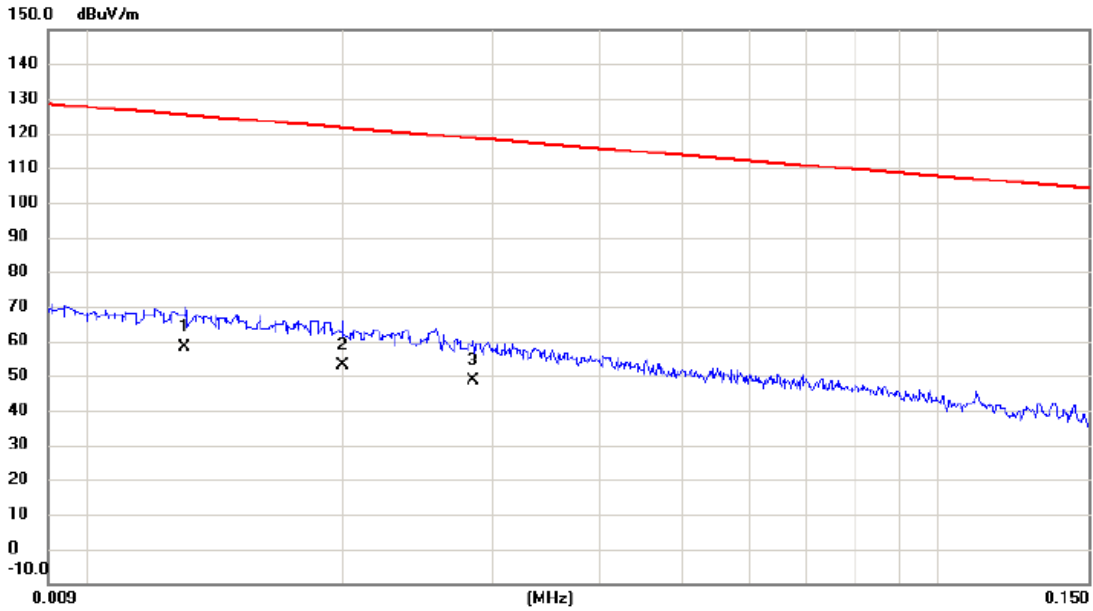
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2256	28.30	18.67	46.97	100.54	-53.57	AVG	
2	*	2.2726	22.70	17.56	40.26	69.54	-29.28	QP	
3		3.8400	21.10	18.41	39.51	69.54	-30.03	QP	



Test Mode: TX B MODE CHANNEL 01

Ant 90°

Horizontal

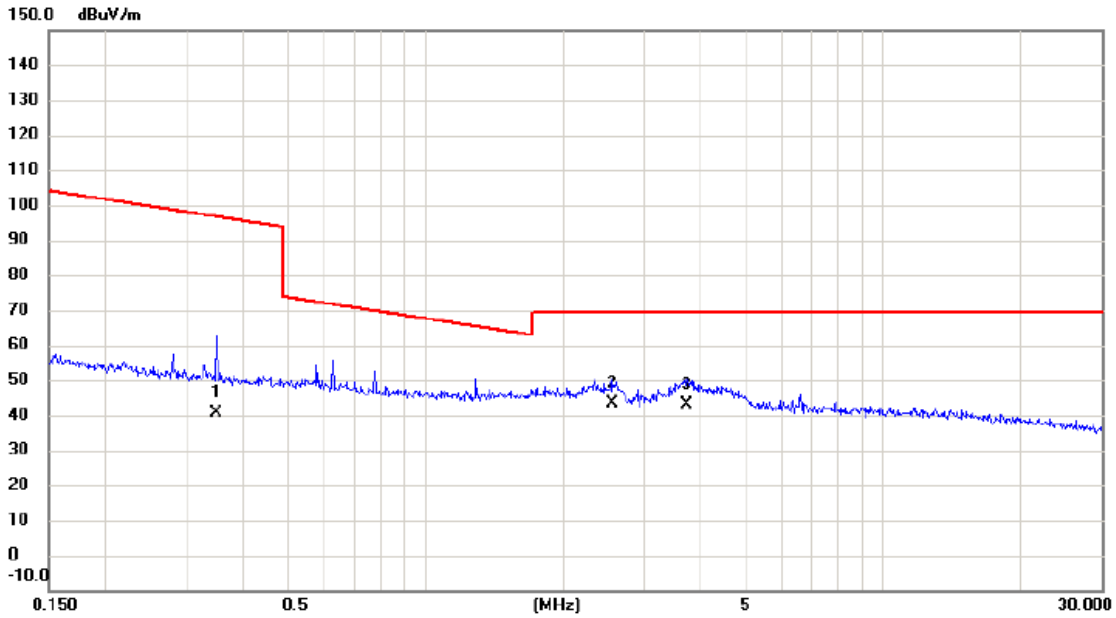


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0130	34.20	23.94	58.14	125.33	-67.19	AVG	
2		0.0200	29.50	23.52	53.02	121.58	-68.56	AVG	
3		0.0284	26.10	22.48	48.58	118.54	-69.96	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

Horizontal

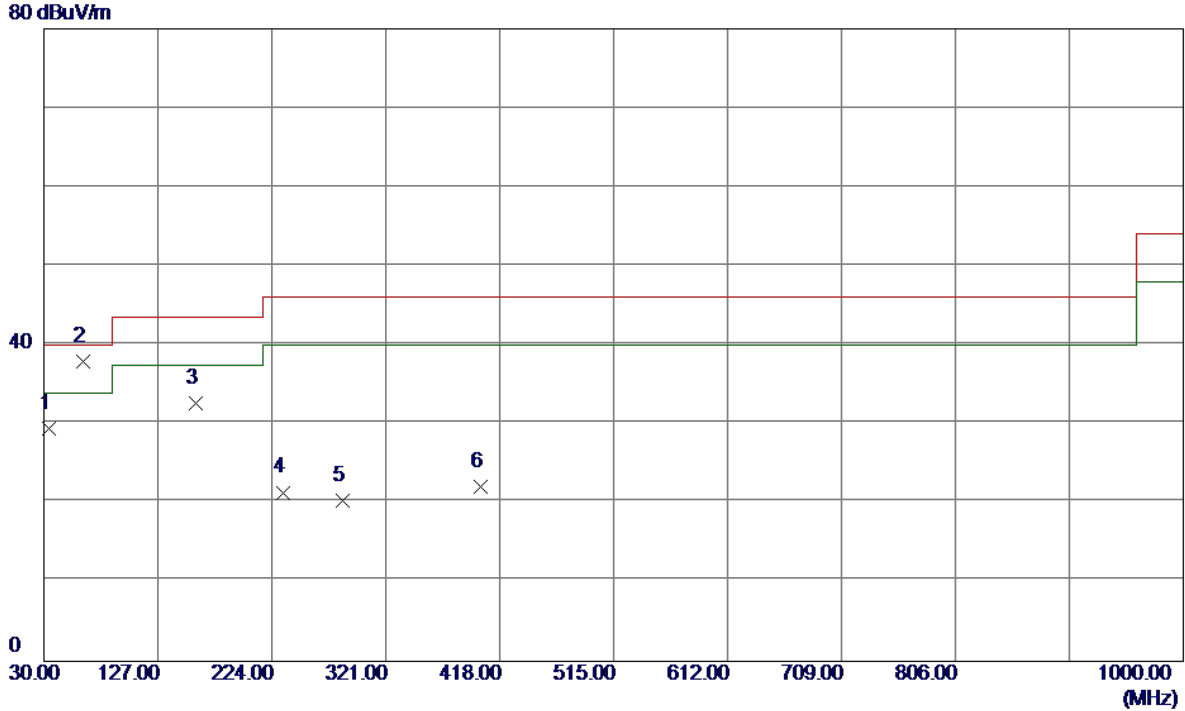


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3483	22.10	18.54	40.64	96.77	-56.13	AVG	
2	*	2.5535	26.30	17.20	43.50	69.54	-26.04	QP	
3		3.7198	24.80	18.16	42.96	69.54	-26.58	QP	

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

Test Mode: TX B MODE CHANNEL 01

**Vertical**

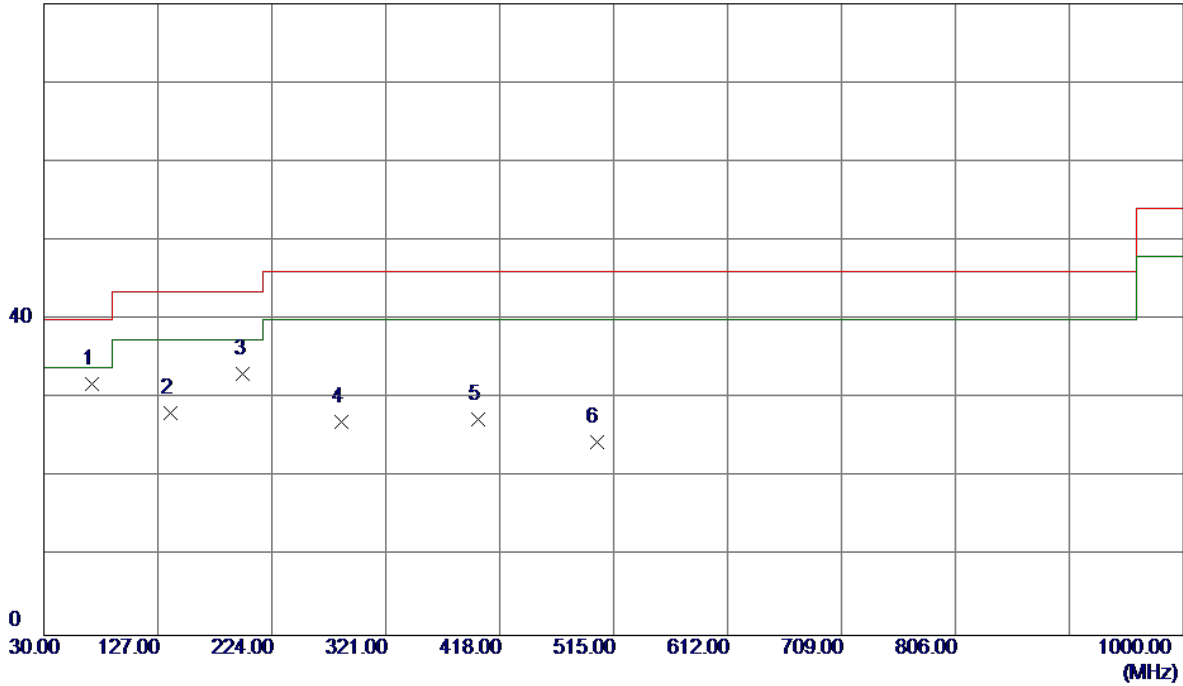


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	43.55	-14.09	29.46	40.00	-10.54	Peak	
2 *	62.9800	52.45	-14.58	37.87	40.00	-2.13	QP	
3	159.0100	44.82	-12.23	32.59	43.50	-10.91	Peak	
4	233.7000	34.88	-13.52	21.36	46.00	-24.64	Peak	
5	284.1400	32.02	-11.71	20.31	46.00	-25.69	Peak	
6	401.5100	29.89	-7.79	22.10	46.00	-23.90	Peak	

Test Mode: TX B MODE CHANNEL 01

**Horizontal**

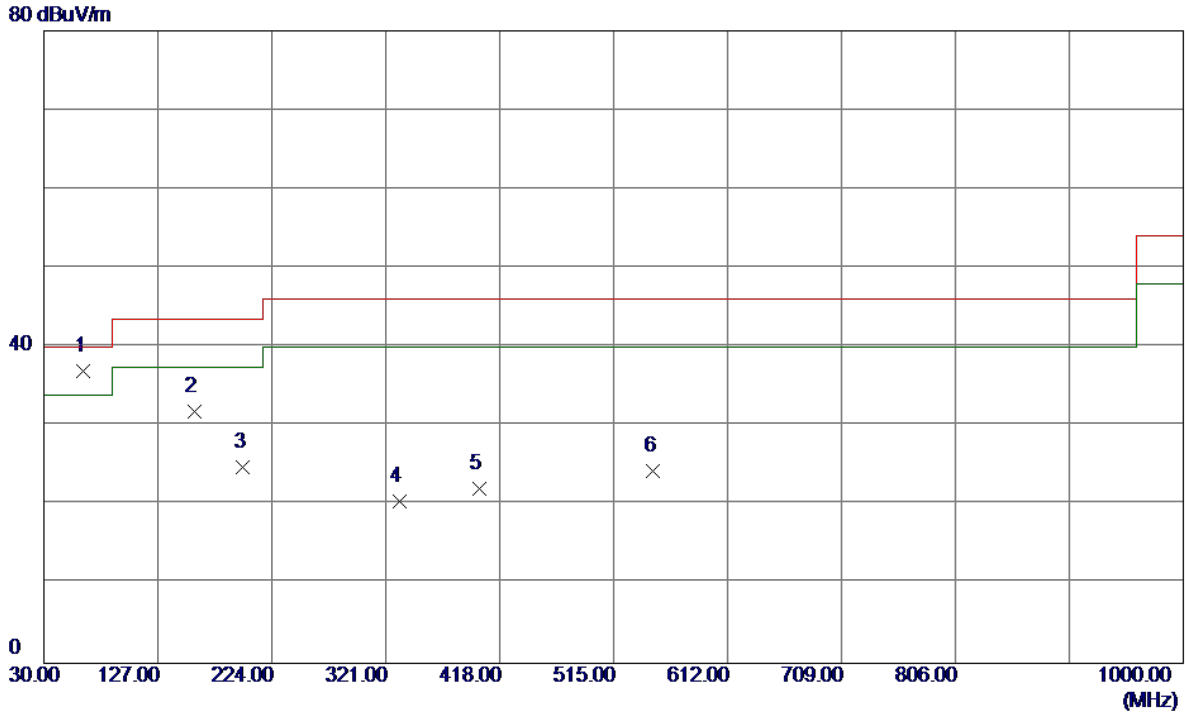
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	70.7400	48.36	-16.53	31.83	40.00	-8.17	Peak	
2	137.6700	41.53	-13.43	28.10	43.50	-15.40	Peak	
3	199.7500	47.49	-14.42	33.07	43.50	-10.43	Peak	
4	283.1700	38.81	-11.78	27.03	46.00	-18.97	Peak	
5	399.5700	35.16	-7.81	27.35	46.00	-18.65	Peak	
6	500.4500	34.21	-9.67	24.54	46.00	-21.46	Peak	

Test Mode: TX B MODE CHANNEL 06

**Vertical**

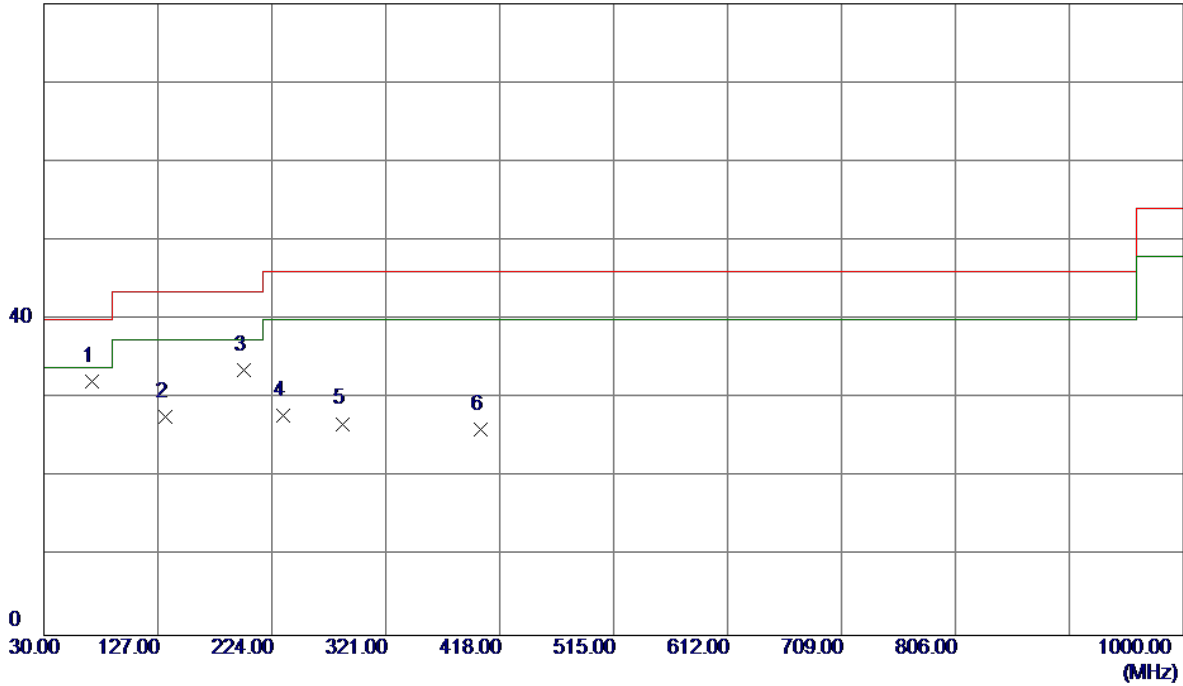


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	63.9500	51.82	-14.87	36.95	40.00	-3.05	QP	
2	158.0399	44.19	-12.30	31.89	43.50	-11.61	Peak	
3	199.7500	39.26	-14.42	24.84	43.50	-18.66	Peak	
4	332.6400	31.33	-10.85	20.48	46.00	-25.52	Peak	
5	400.5400	29.88	-7.78	22.10	46.00	-23.90	Peak	
6	548.9500	28.92	-4.65	24.27	46.00	-21.73	Peak	

Test Mode: TX B MODE CHANNEL 06

**Horizontal**

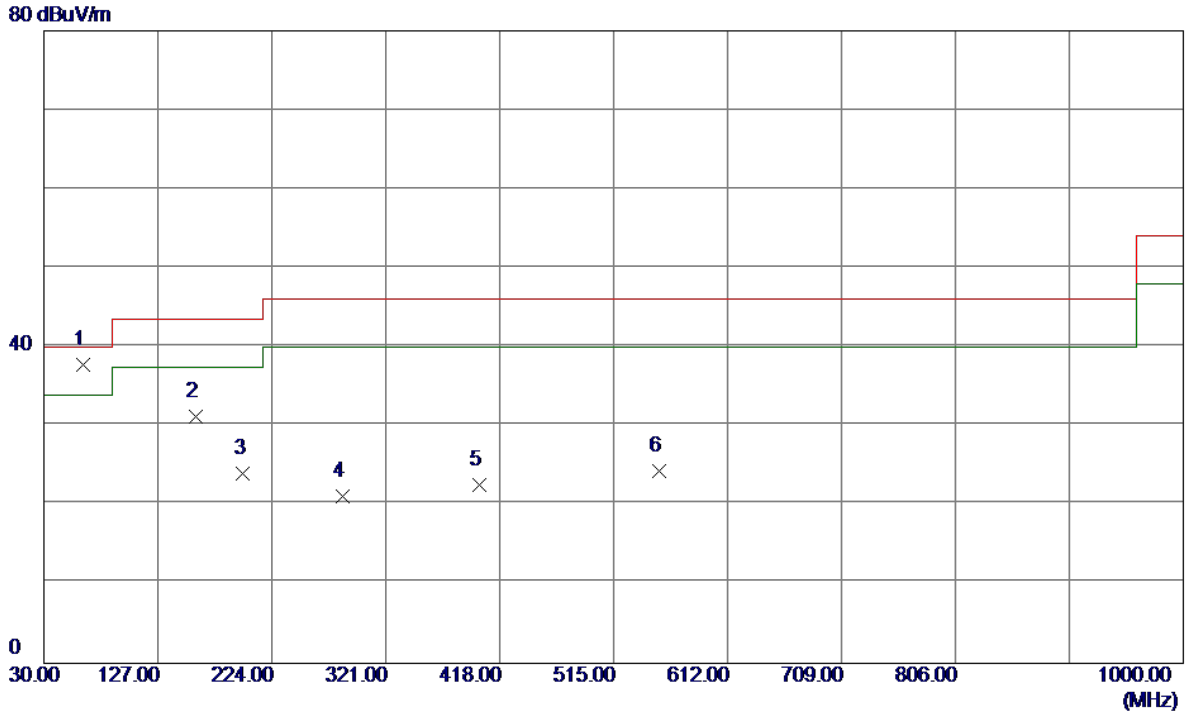
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	70.7400	48.73	-16.53	32.20	40.00	-7.80	Peak	
2	133.7899	40.61	-12.88	27.73	43.50	-15.77	Peak	
3	200.7200	48.01	-14.45	33.56	43.50	-9.94	Peak	
4	233.7000	41.36	-13.52	27.84	46.00	-18.16	Peak	
5	284.1400	38.51	-11.71	26.80	46.00	-19.20	Peak	
6	401.5100	33.84	-7.79	26.05	46.00	-19.95	Peak	

Test Mode: TX B MODE CHANNEL 11

**Vertical**



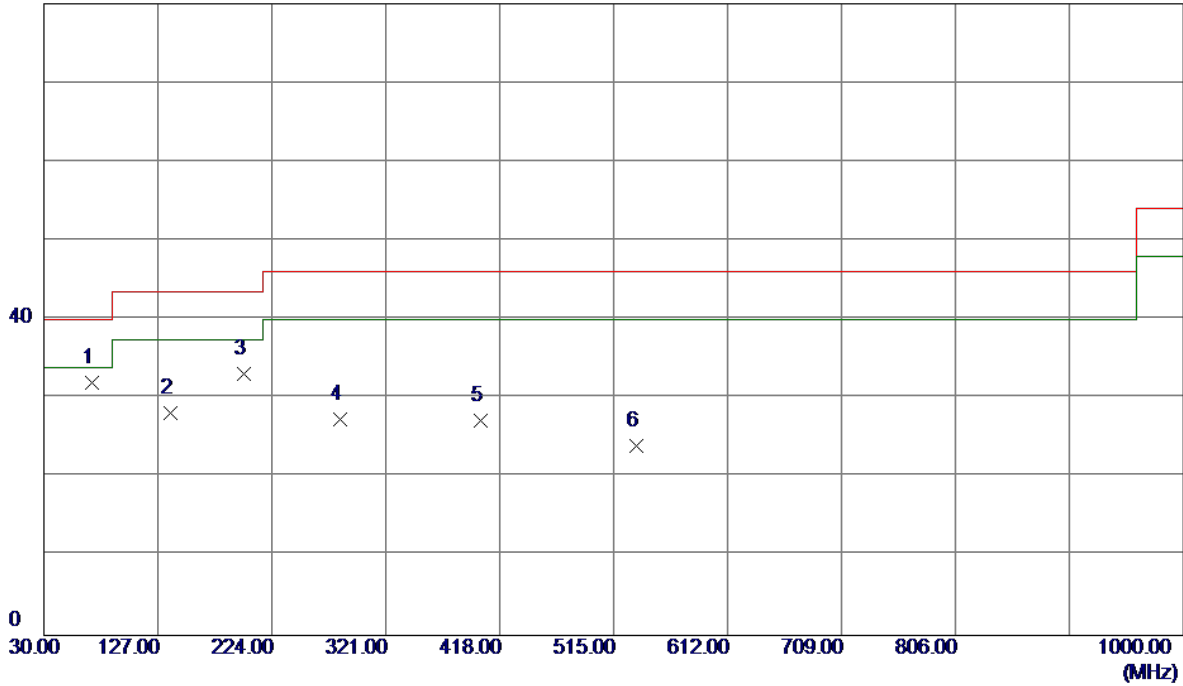
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	62.9800	52.27	-14.58	37.69	40.00	-2.31	QP	
2	159.0100	43.46	-12.23	31.23	43.50	-12.27	Peak	
3	199.7500	38.43	-14.42	24.01	43.50	-19.49	Peak	
4	284.1400	32.82	-11.71	21.11	46.00	-24.89	Peak	
5	400.5400	30.29	-7.78	22.51	46.00	-23.49	Peak	
6	553.8000	29.03	-4.73	24.30	46.00	-21.70	Peak	



Test Mode: TX B MODE CHANNEL 11

**Horizontal**

80 dBuV/m



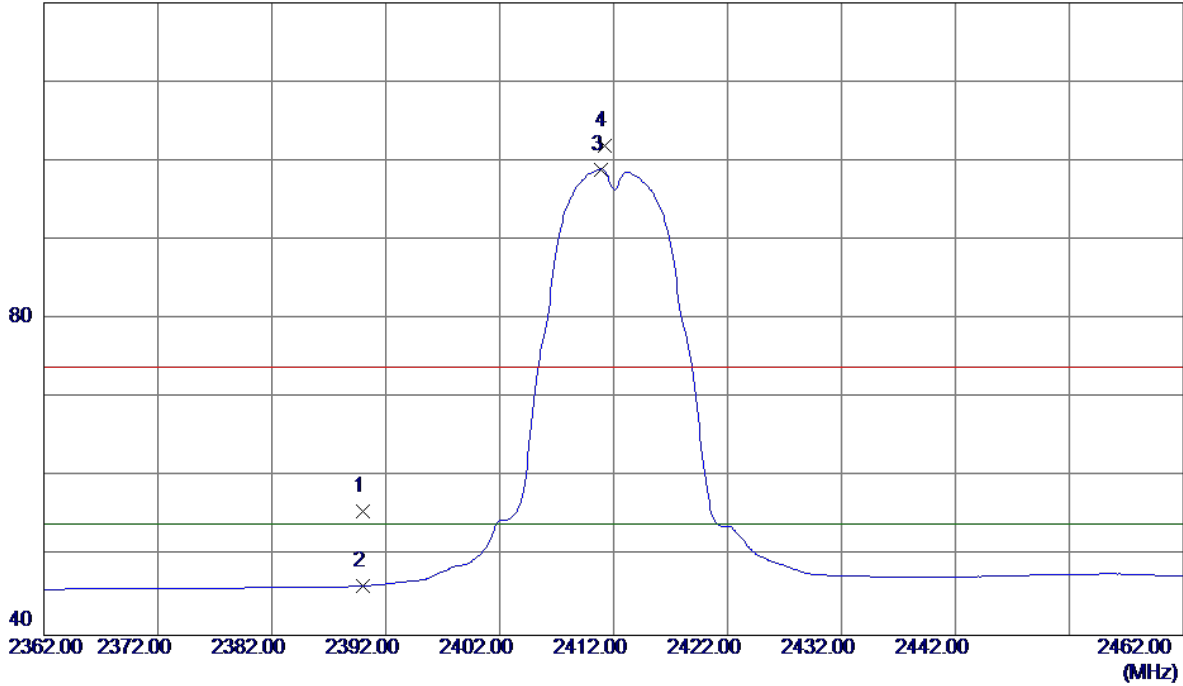
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	70.7400	48.55	-16.53	32.02	40.00	-7.98	Peak	
2	137.6700	41.59	-13.43	28.16	43.50	-15.34	Peak	
3	200.7200	47.58	-14.45	33.13	43.50	-10.37	Peak	
4	282.2000	39.20	-11.86	27.34	46.00	-18.66	Peak	
5	401.5100	34.94	-7.79	27.15	46.00	-18.85	Peak	
6	534.4000	30.11	-6.16	23.95	46.00	-22.05	Peak	

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

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

**Vertical**

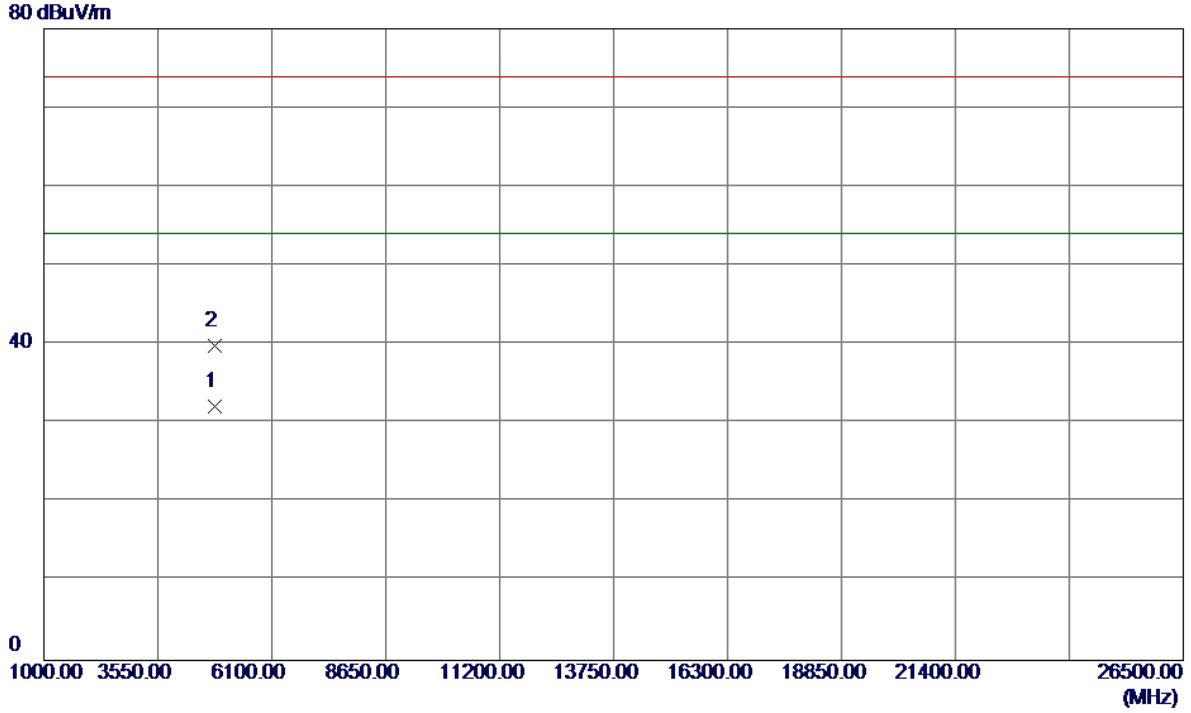
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.66	33.01	55.67	74.00	-18.33	Peak	
2	2390.0000	13.24	33.01	46.25	54.00	-7.75	AVG	
3 *	2410.9000	65.86	33.10	98.96	54.00	44.96	AVG	No Limit
4	2411.2000	68.84	33.10	101.94	74.00	27.94	Peak	No Limit

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

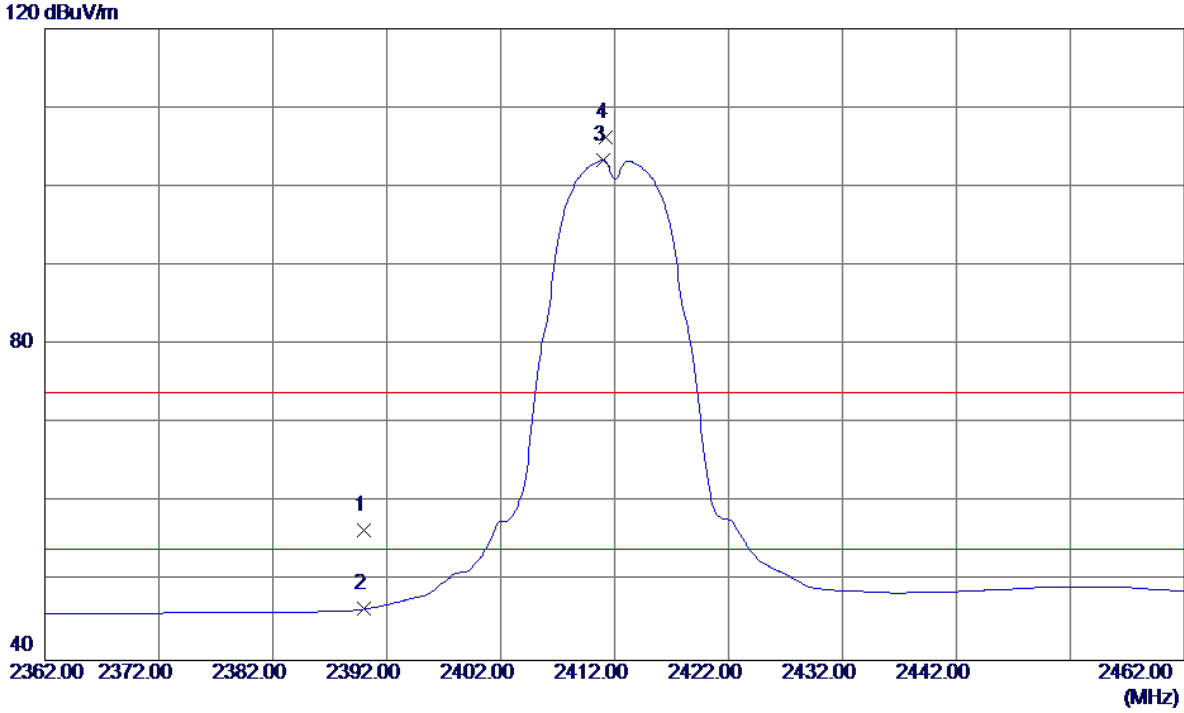
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	27.25	4.85	32.10	54.00	-21.90	AVG	
2	4824.1349	35.04	4.85	39.89	74.00	-34.11	Peak	

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

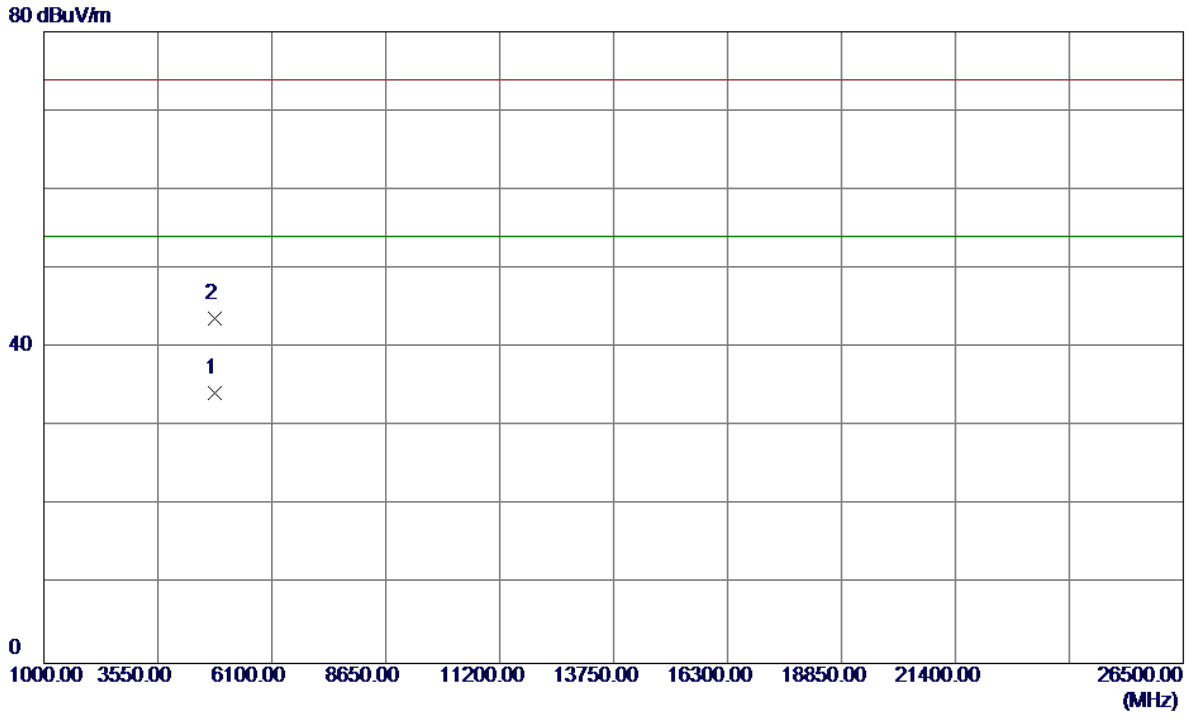
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.51	33.01	56.52	74.00	-17.48	Peak	
2	2390.0000	13.48	33.01	46.49	54.00	-7.51	AVG	
3 *	2411.0000	70.26	33.10	103.36	54.00	49.36	AVG	No Limit
4	2411.2000	73.22	33.10	106.32	74.00	32.32	Peak	No Limit

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

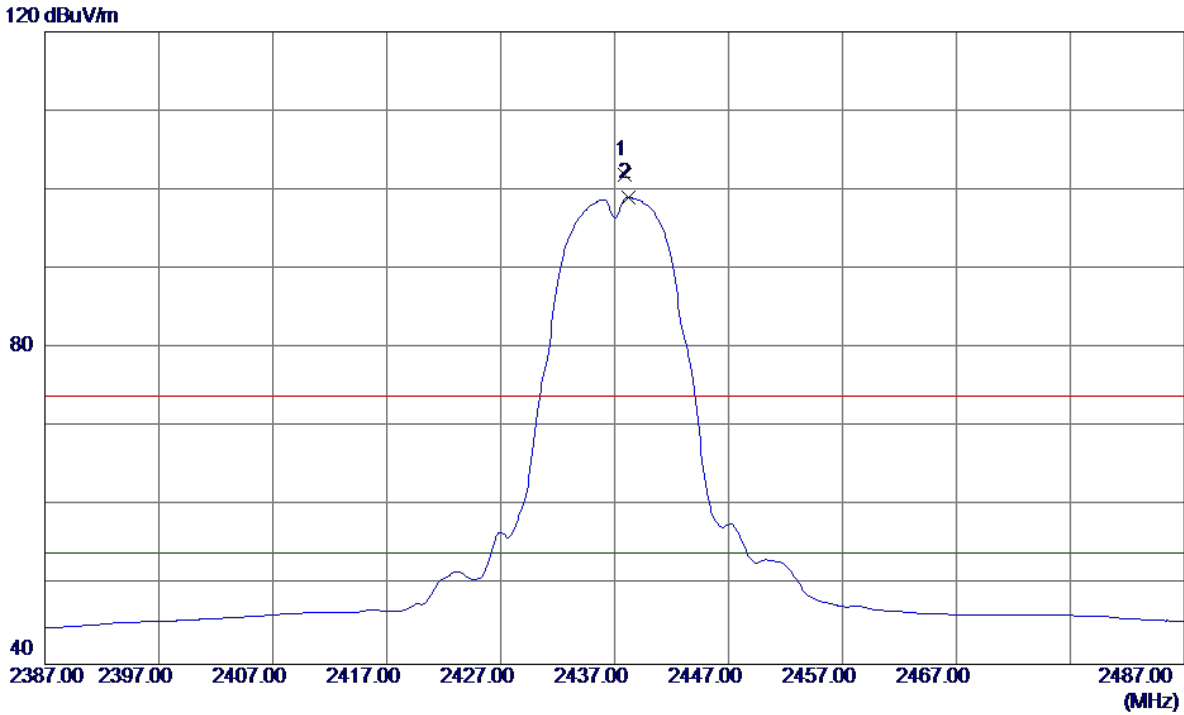
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.2540	29.35	4.85	34.20	54.00	-19.80	AVG	
2	4824.1950	38.81	4.85	43.66	74.00	-30.34	Peak	

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

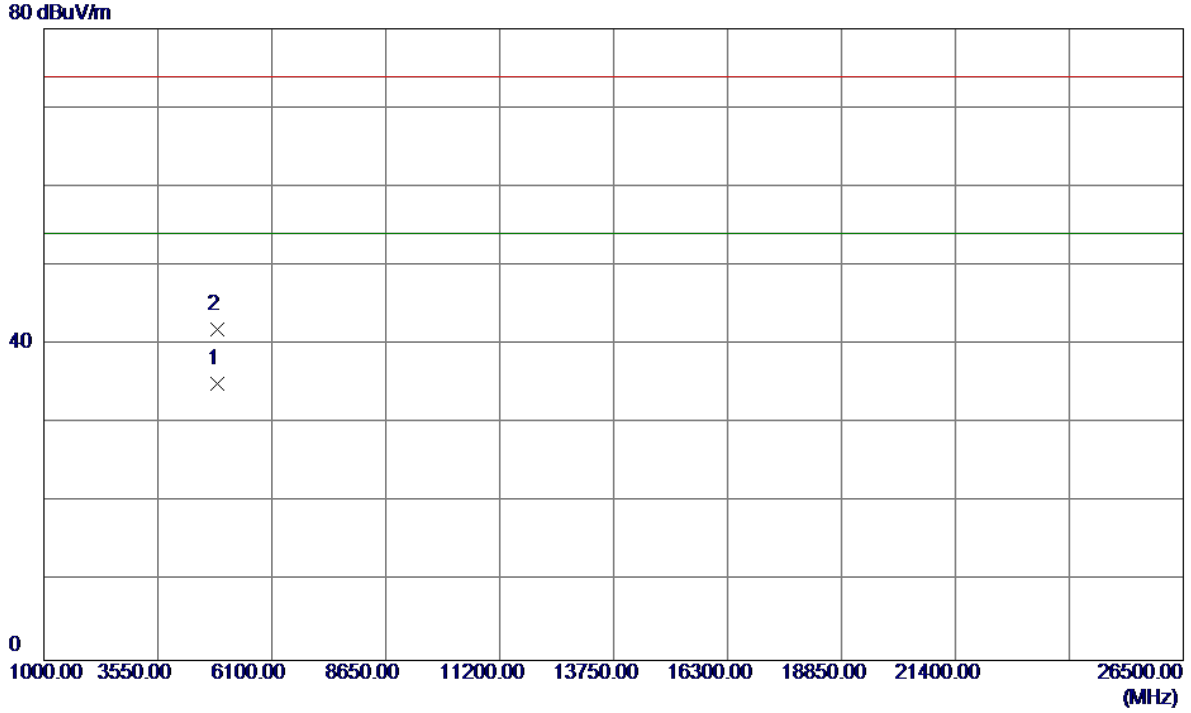
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.9000	68.74	33.21	101.95	74.00	27.95	Peak	No Limit
2 *	2438.2000	65.90	33.21	99.11	54.00	45.11	AVG	No Limit

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

**Vertical**

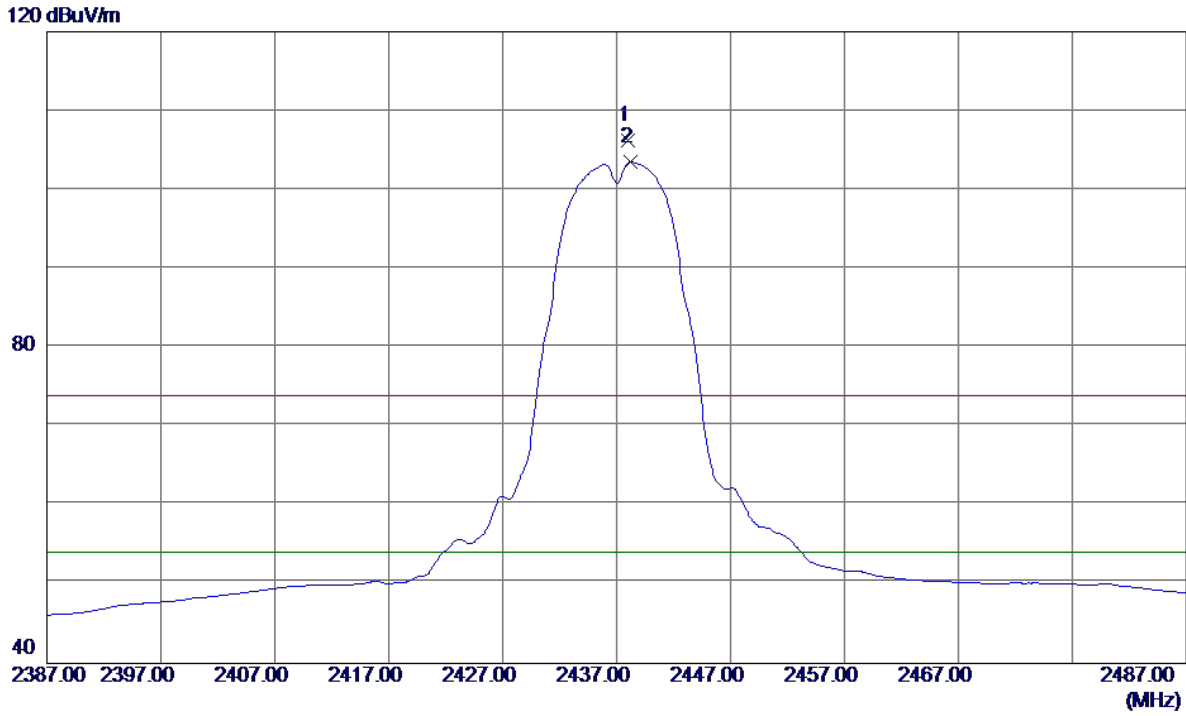


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9750	29.92	5.07	34.99	54.00	-19.01	AVG	
2	4874.1900	36.91	5.07	41.98	74.00	-32.02	Peak	



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

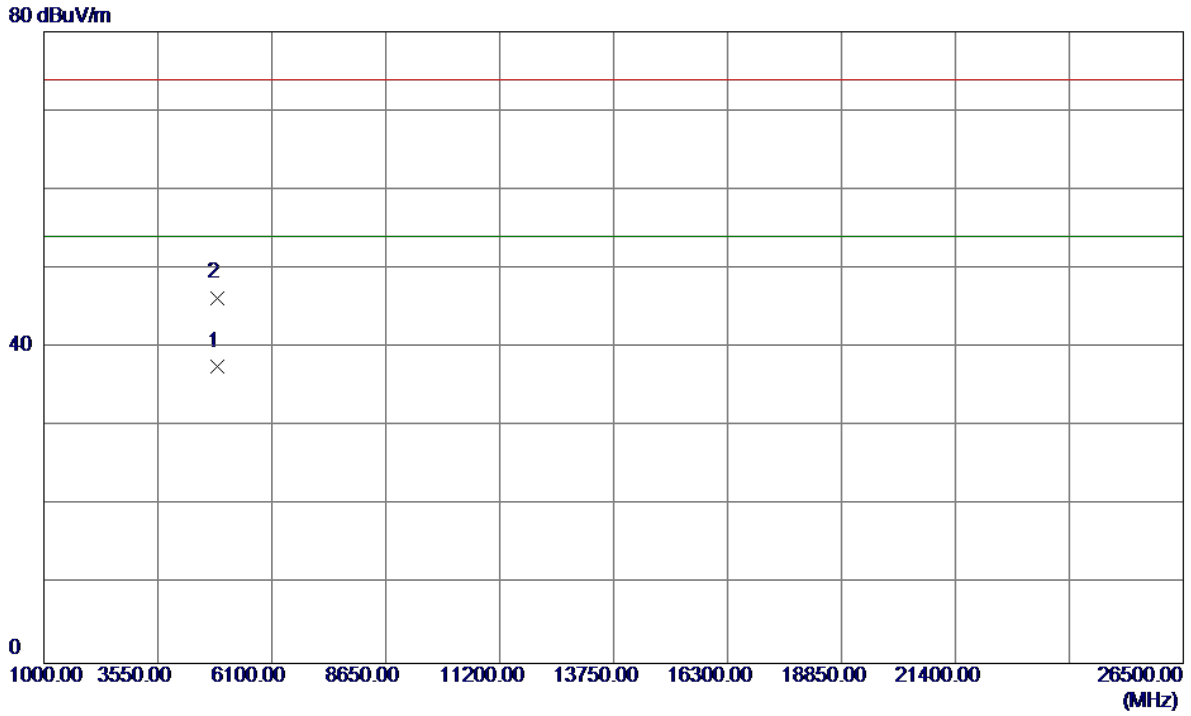
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.0000	73.04	33.21	106.25	74.00	32.25	Peak	No Limit
2 *	2438.2000	70.28	33.21	103.49	54.00	49.49	AVG	No Limit

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

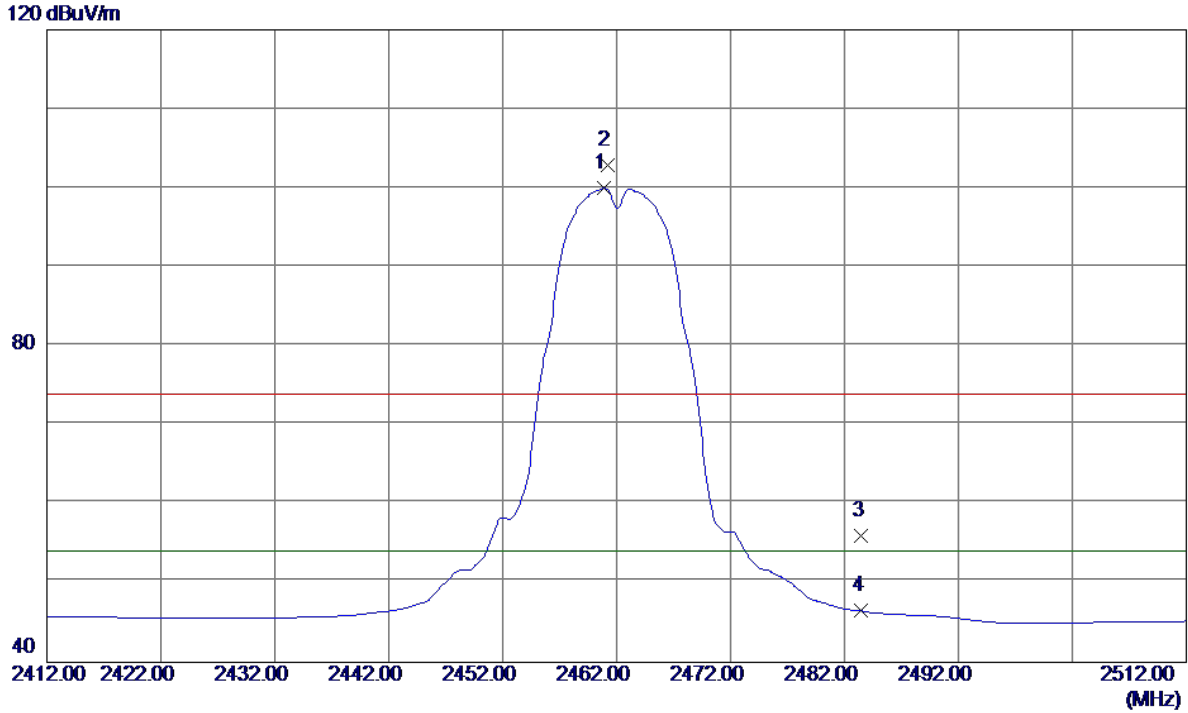
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.6250	32.52	5.06	37.58	54.00	-16.42	AVG	
2	4873.6820	41.26	5.06	46.32	74.00	-27.68	Peak	

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

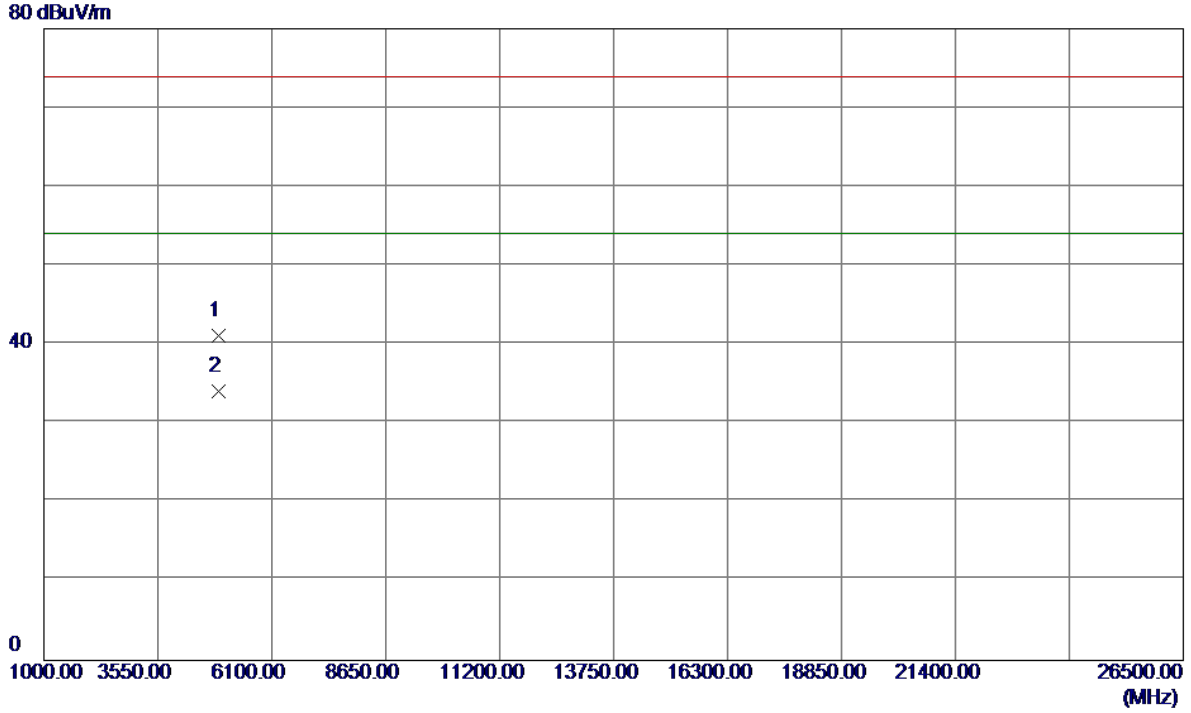
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9000	66.64	33.31	99.95	54.00	45.95	AVG	No Limit
2	2461.2000	69.61	33.31	102.92	74.00	28.92	Peak	No Limit
3	2483.5000	22.65	33.40	56.05	74.00	-17.95	Peak	
4	2483.5000	13.11	33.40	46.51	54.00	-7.49	AVG	

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

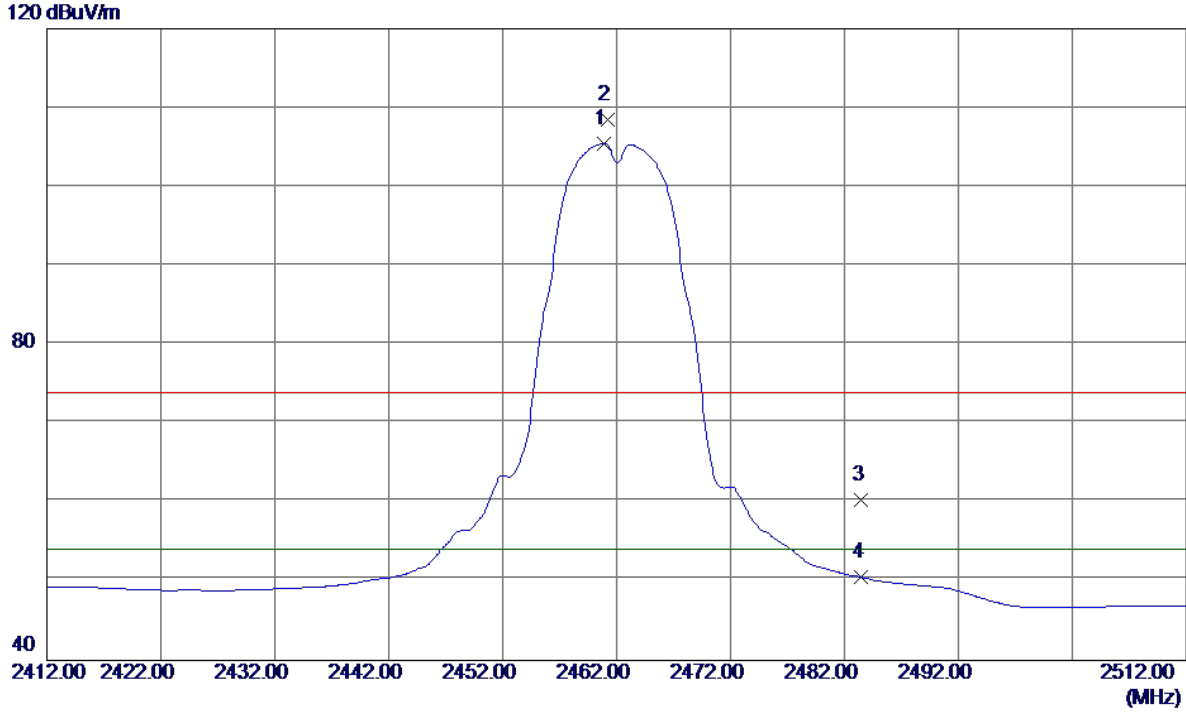
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9300	35.83	5.28	41.11	74.00	-32.89	Peak	
2 *	4923.9750	28.78	5.28	34.06	54.00	-19.94	AVG	

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

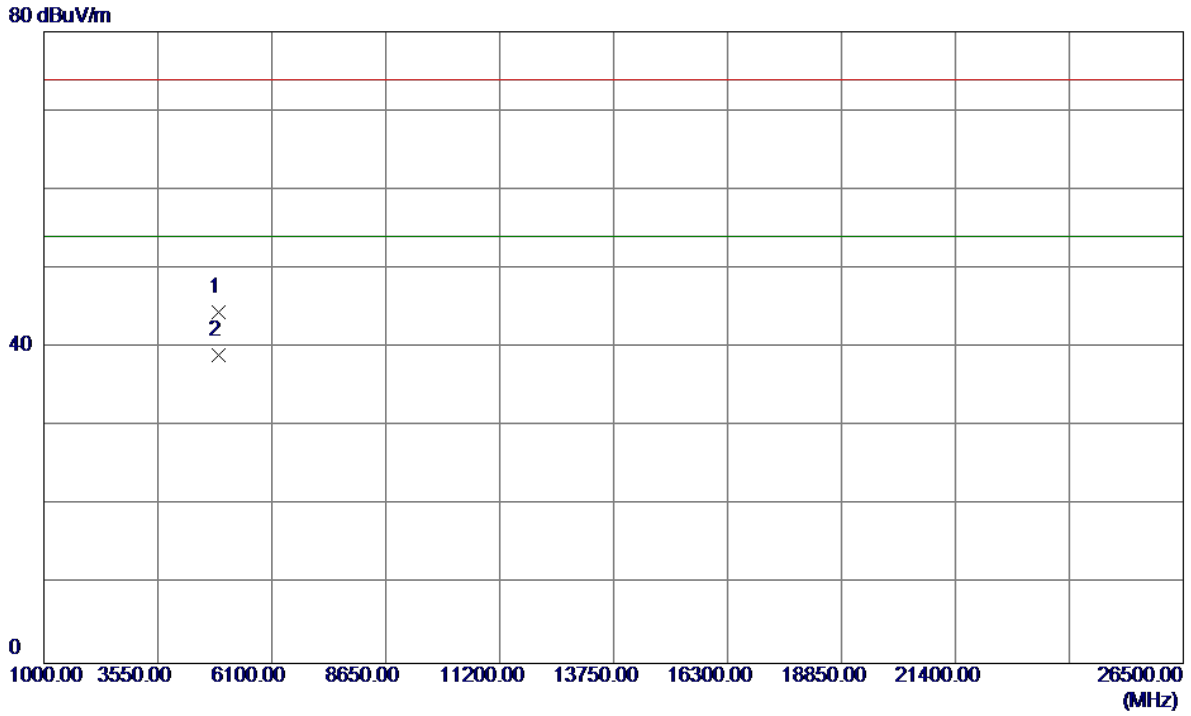
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9000	72.21	33.31	105.52	54.00	51.52	AVG	No Limit
2	2461.2000	75.13	33.31	108.44	74.00	34.44	Peak	No Limit
3	2483.5000	26.93	33.40	60.33	74.00	-13.67	Peak	
4	2483.5000	17.16	33.40	50.56	54.00	-3.44	AVG	

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

**Horizontal**

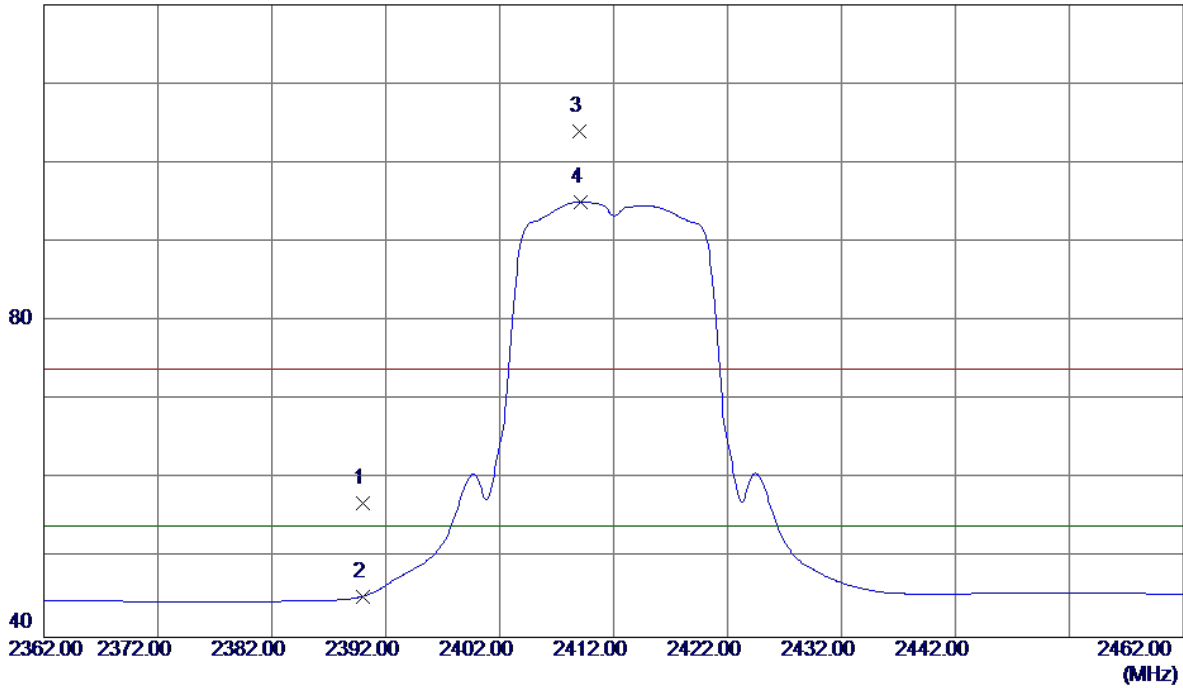


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9300	39.15	5.28	44.43	74.00	-29.57	Peak	
2 *	4923.9900	33.79	5.28	39.07	54.00	-14.93	AVG	

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

**Vertical**

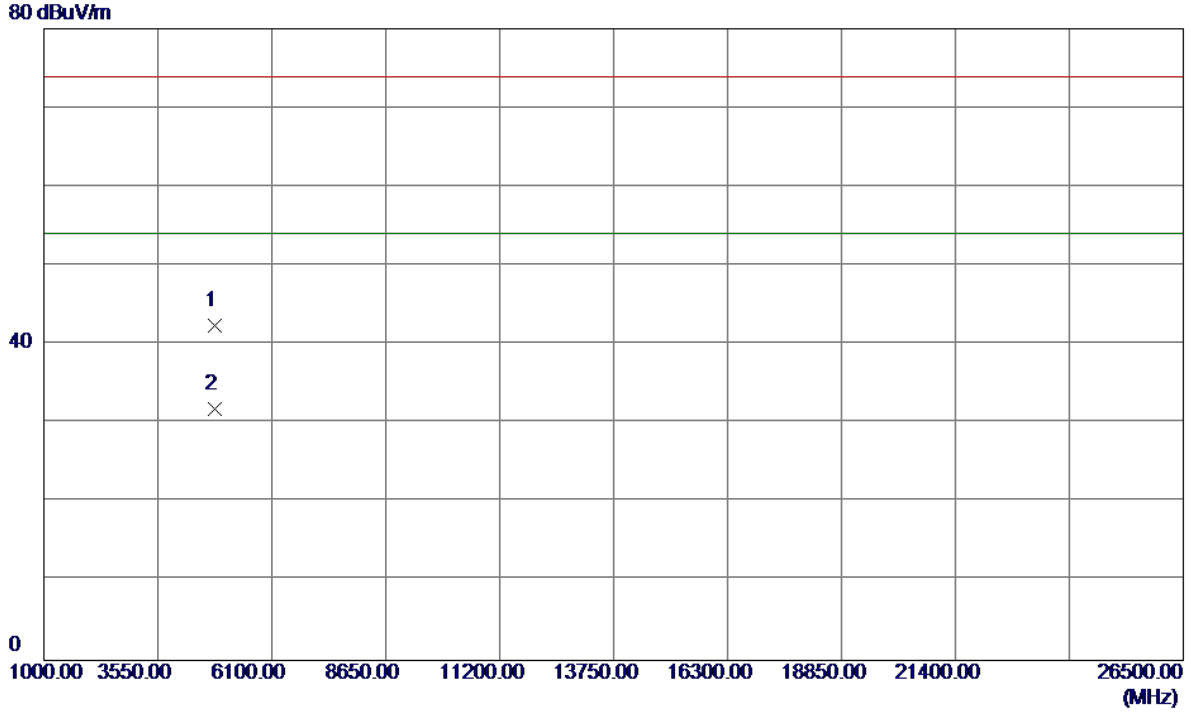
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.98	33.01	56.99	74.00	-17.01	Peak	
2	2390.0000	12.18	33.01	45.19	54.00	-8.81	AVG	
3	2409.0000	70.90	33.09	103.99	74.00	29.99	Peak	No Limit
4 *	2409.1000	61.99	33.09	95.08	54.00	41.08	AVG	No Limit

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

**Vertical**

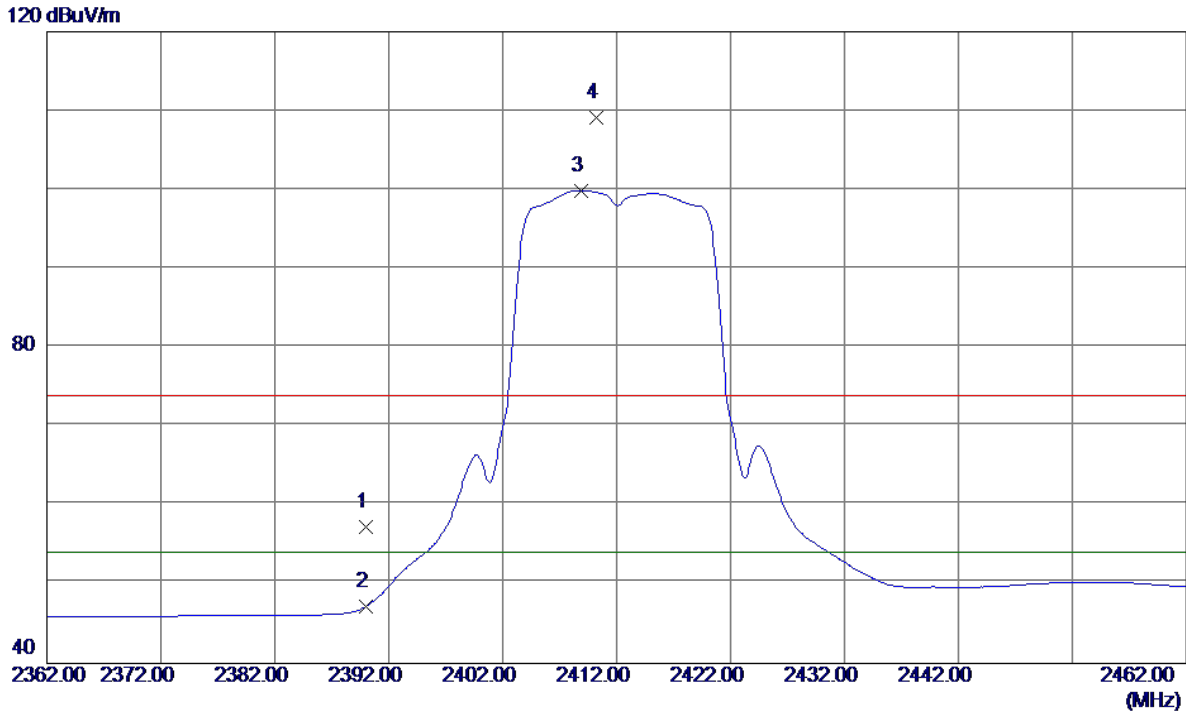


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.4750	37.49	4.86	42.35	74.00	-31.65	Peak	
2 *	4824.1450	26.94	4.85	31.79	54.00	-22.21	AVG	



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

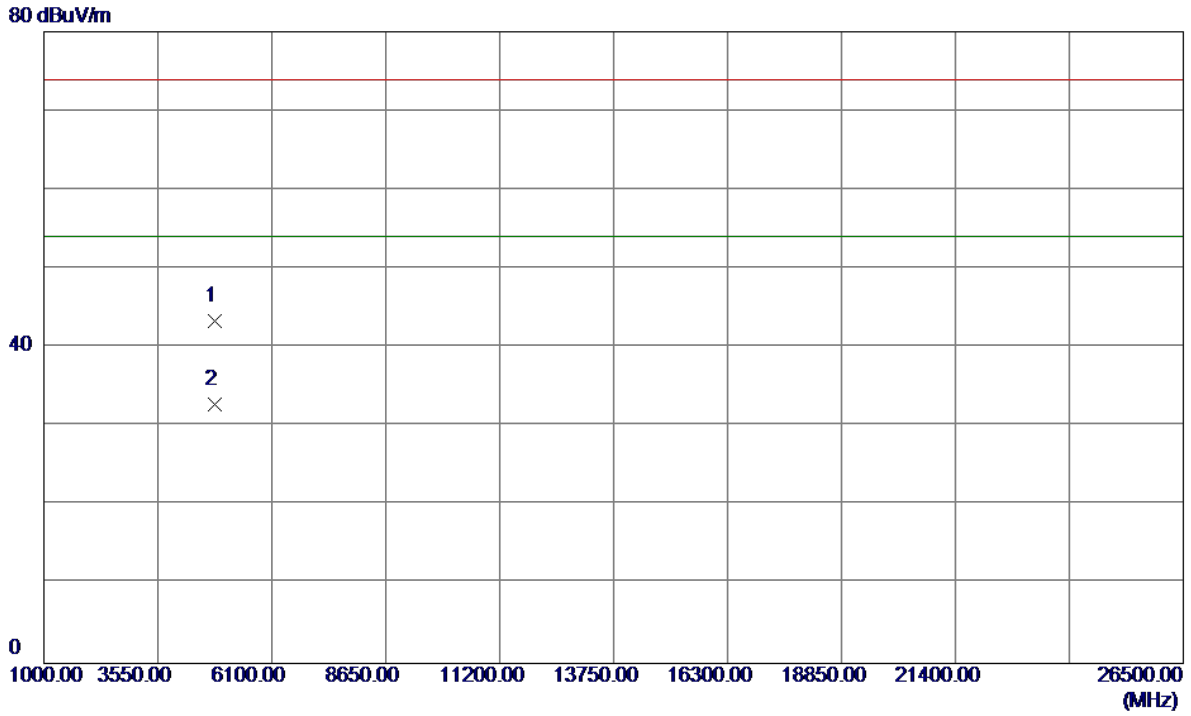
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.32	33.01	57.33	74.00	-16.67	Peak	
2	2390.0000	14.21	33.01	47.22	54.00	-6.78	AVG	
3 *	2408.9000	66.82	33.09	99.91	54.00	45.91	AVG	No Limit
4	2410.2000	76.07	33.09	109.16	74.00	35.16	Peak	No Limit

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

**Horizontal**

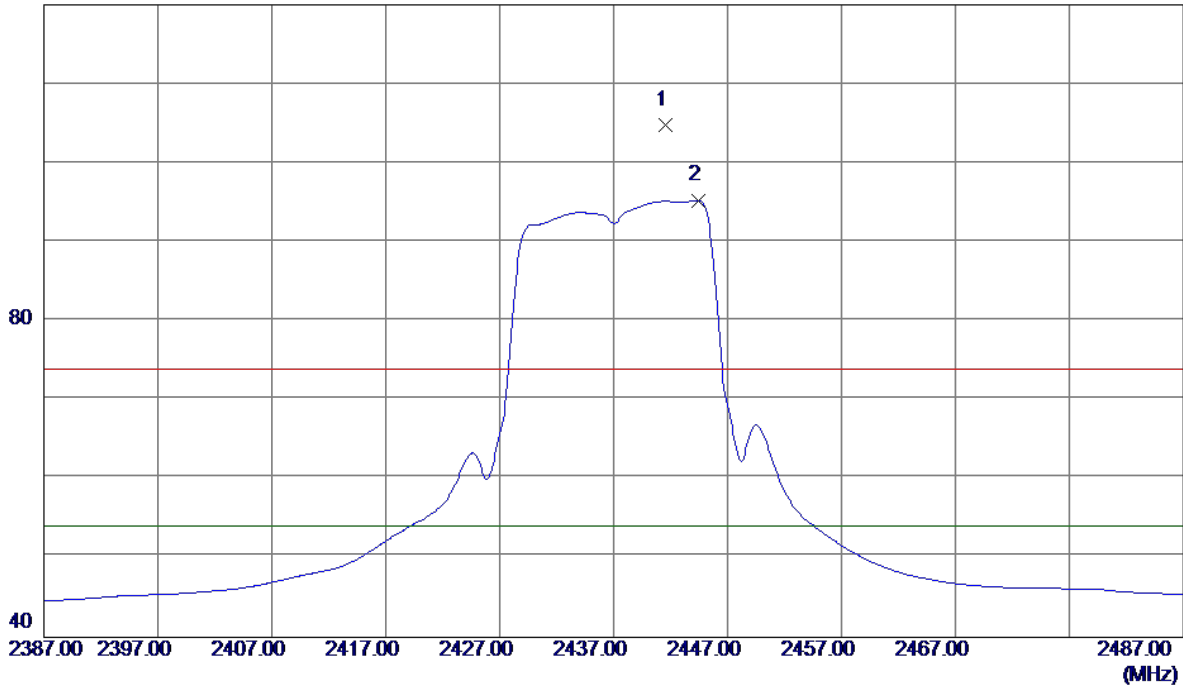


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.5259	38.51	4.86	43.37	74.00	-30.63	Peak	
2 *	4824.7820	27.87	4.86	32.73	54.00	-21.27	AVG	

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

**Vertical**

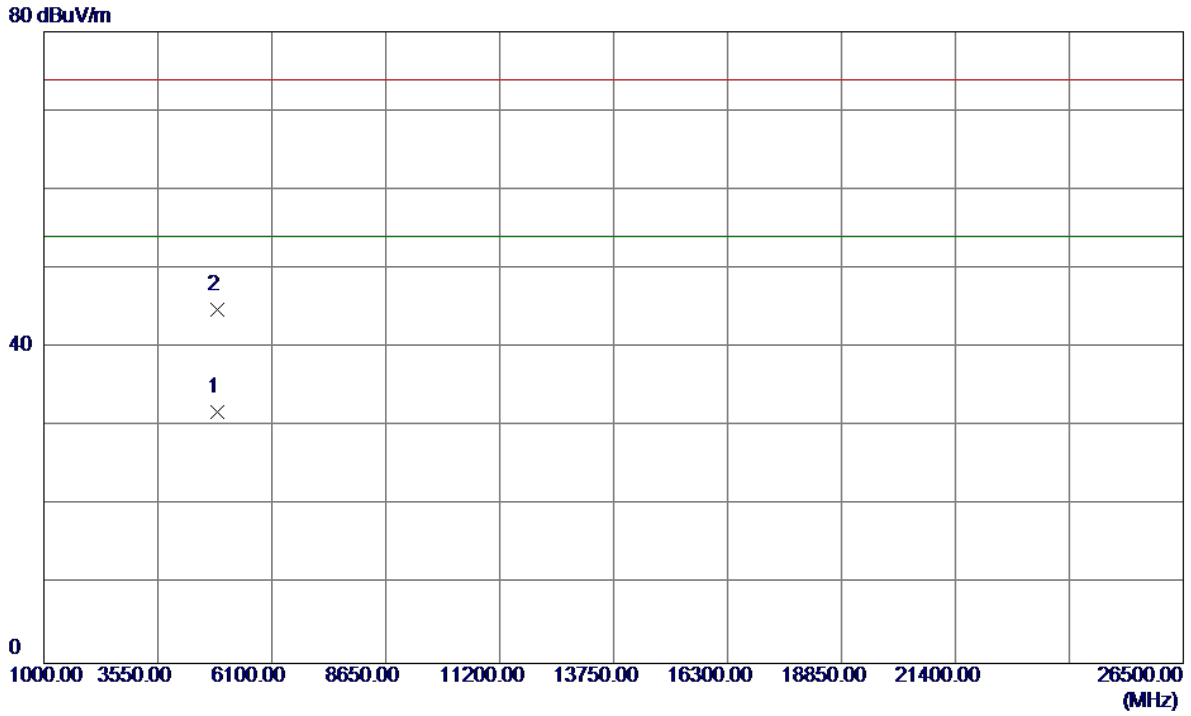
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.6000	71.65	33.23	104.88	74.00	30.88	Peak	No Limit
2 *	2444.4000	62.04	33.24	95.28	54.00	41.28	AVG	No Limit

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

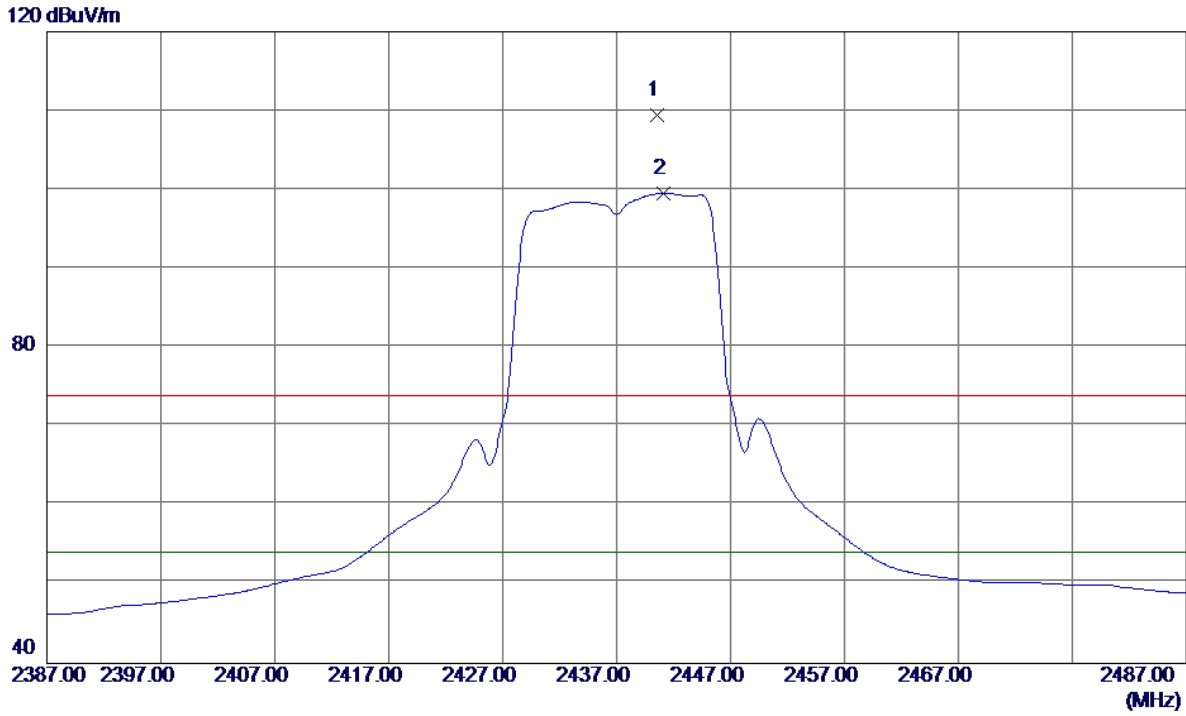
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.7200	26.74	5.07	31.81	54.00	-22.19	AVG	
2	4874.0650	39.80	5.07	44.87	74.00	-29.13	Peak	

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

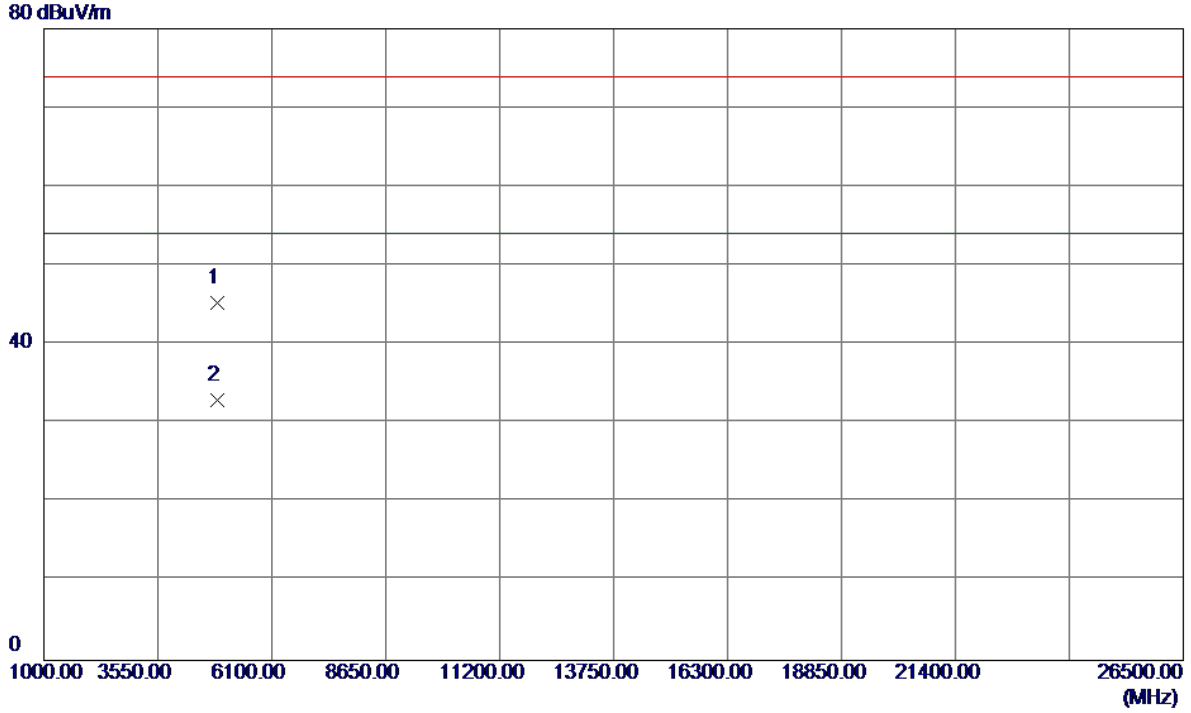
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.6000	76.23	33.22	109.45	74.00	35.45	Peak	No Limit
2 *	2441.1000	66.33	33.22	99.55	54.00	45.55	AVG	No Limit

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

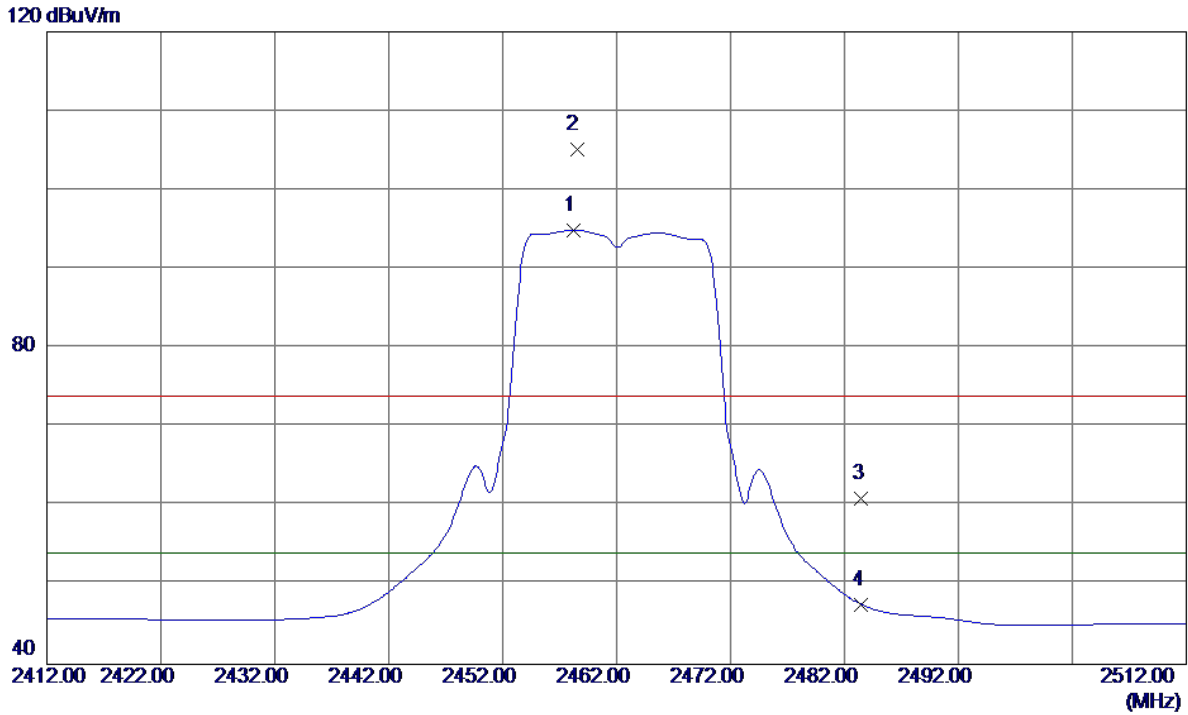
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.2530	40.24	5.07	45.31	74.00	-28.69	Peak	
2 *	4874.4270	27.86	5.07	32.93	54.00	-21.07	AVG	

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

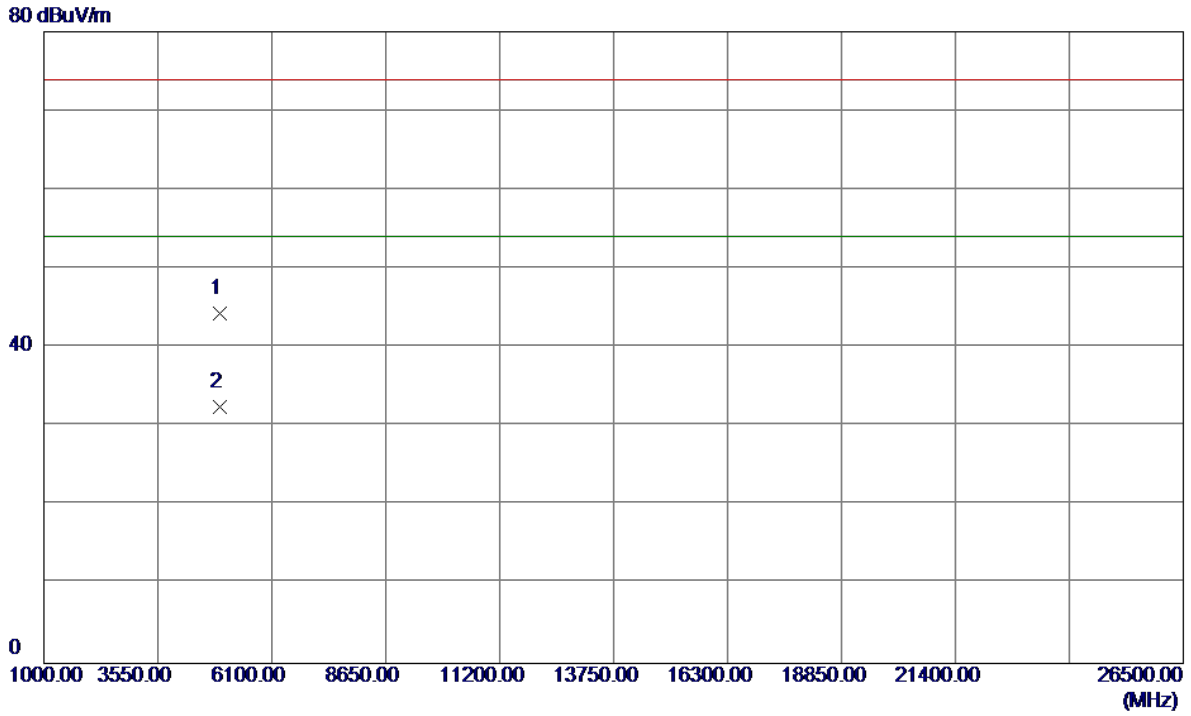
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.2000	61.61	33.30	94.91	54.00	40.91	AVG	No Limit
2	2458.5000	71.84	33.30	105.14	74.00	31.14	Peak	No Limit
3	2483.5000	27.51	33.40	60.91	74.00	-13.09	Peak	
4	2483.5000	14.17	33.40	47.57	54.00	-6.43	AVG	

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

**Vertical**

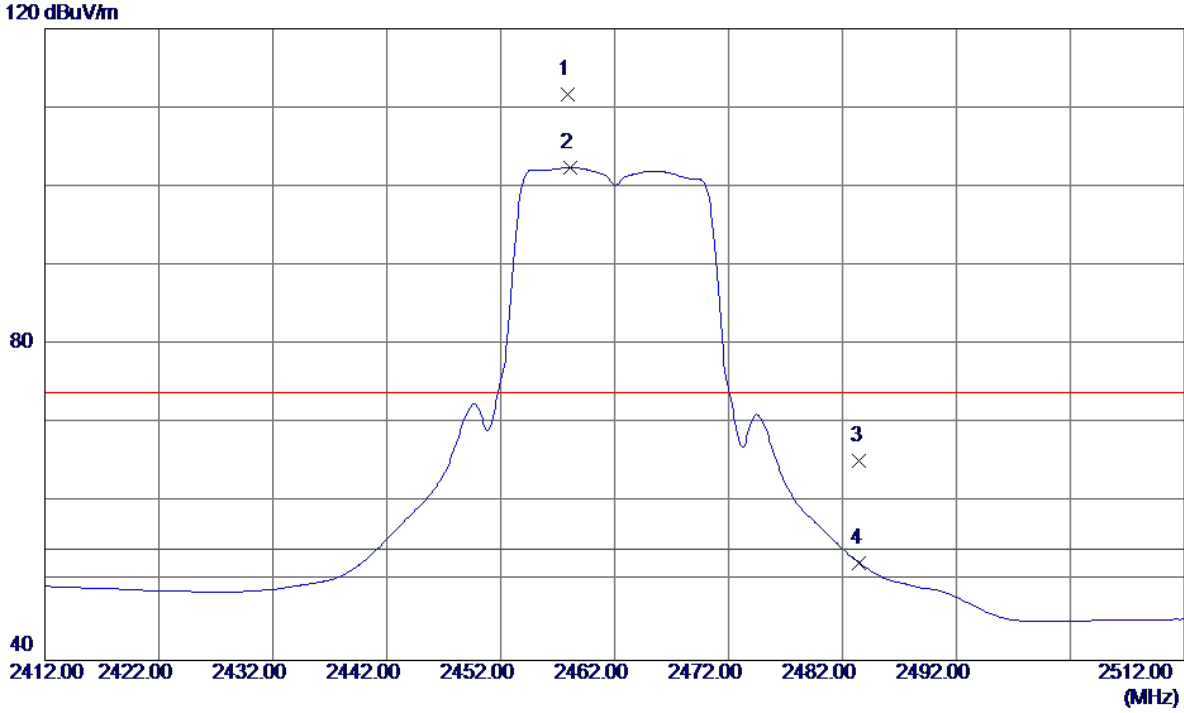


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4600	39.08	5.28	44.36	74.00	-29.64	Peak	
2 *	4924.7150	27.22	5.28	32.50	54.00	-21.50	AVG	



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

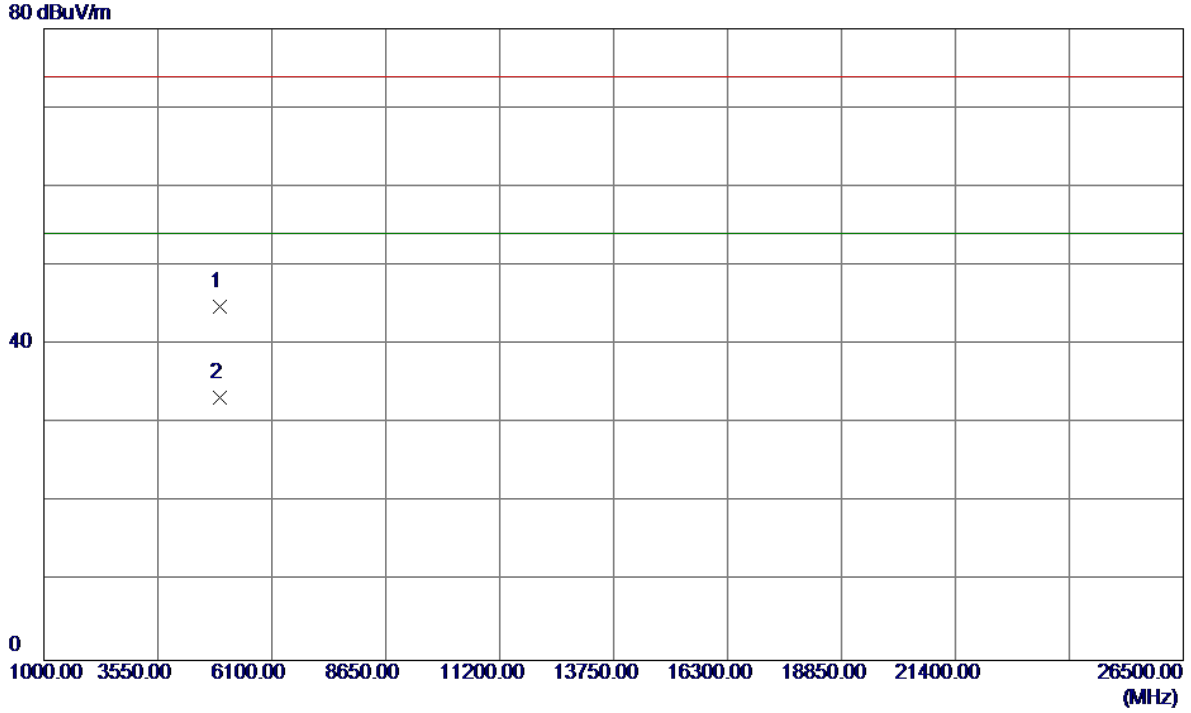
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.9000	78.38	33.29	111.67	74.00	37.67	Peak	No Limit
2 *	2458.1000	69.15	33.29	102.44	54.00	48.44	AVG	No Limit
3	2483.5000	31.87	33.40	65.27	74.00	-8.73	Peak	
4	2483.5000	18.94	33.40	52.34	54.00	-1.66	AVG	

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

**Horizontal**

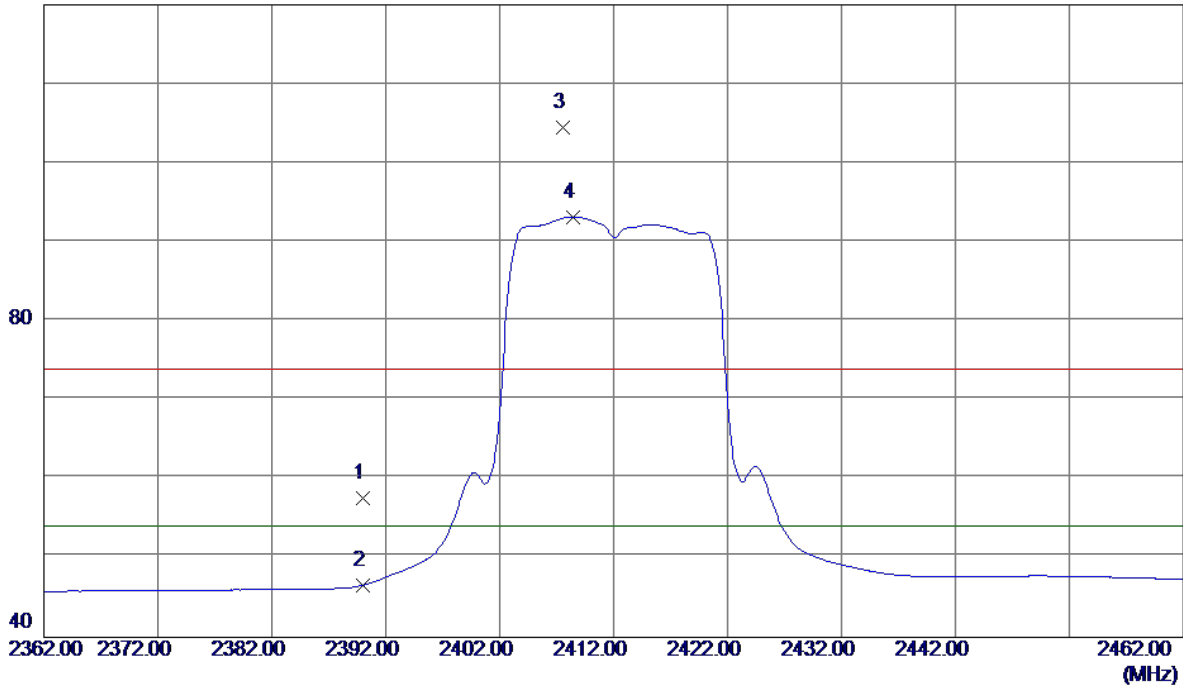


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.5379	39.54	5.28	44.82	74.00	-29.18	Peak	
2 *	4924.2070	28.00	5.28	33.28	54.00	-20.72	AVG	

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

**Vertical**

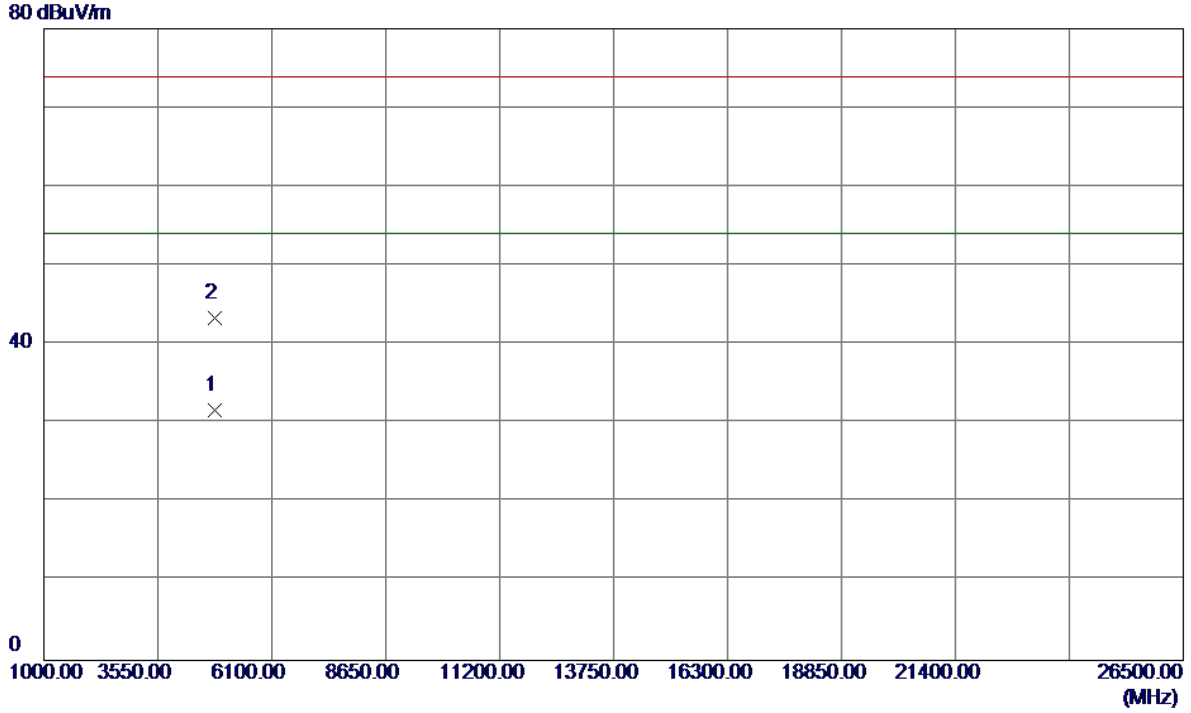
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.59	33.01	57.60	74.00	-16.40	Peak	
2	2390.0000	13.59	33.01	46.60	54.00	-7.40	AVG	
3	2407.6000	71.35	33.08	104.43	74.00	30.43	Peak	No Limit
4 *	2408.4000	60.05	33.09	93.14	54.00	39.14	AVG	No Limit

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

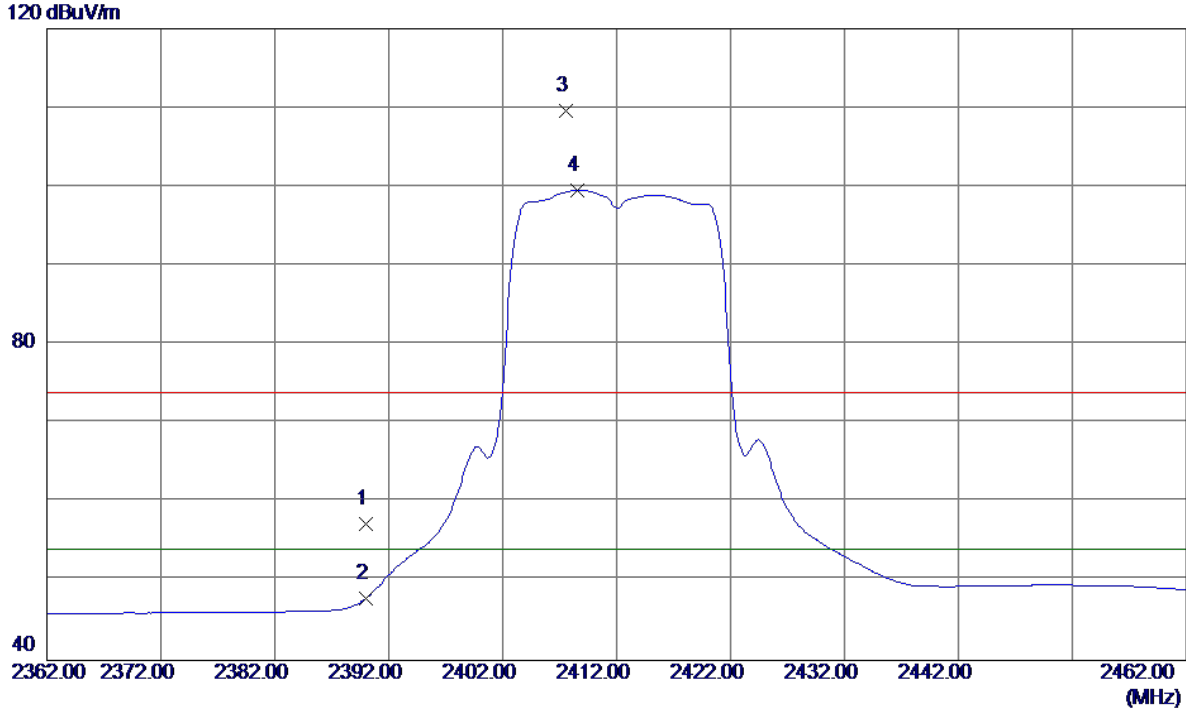
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.4450	26.79	4.86	31.65	54.00	-22.35	AVG	
2	4824.9100	38.43	4.86	43.29	74.00	-30.71	Peak	

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

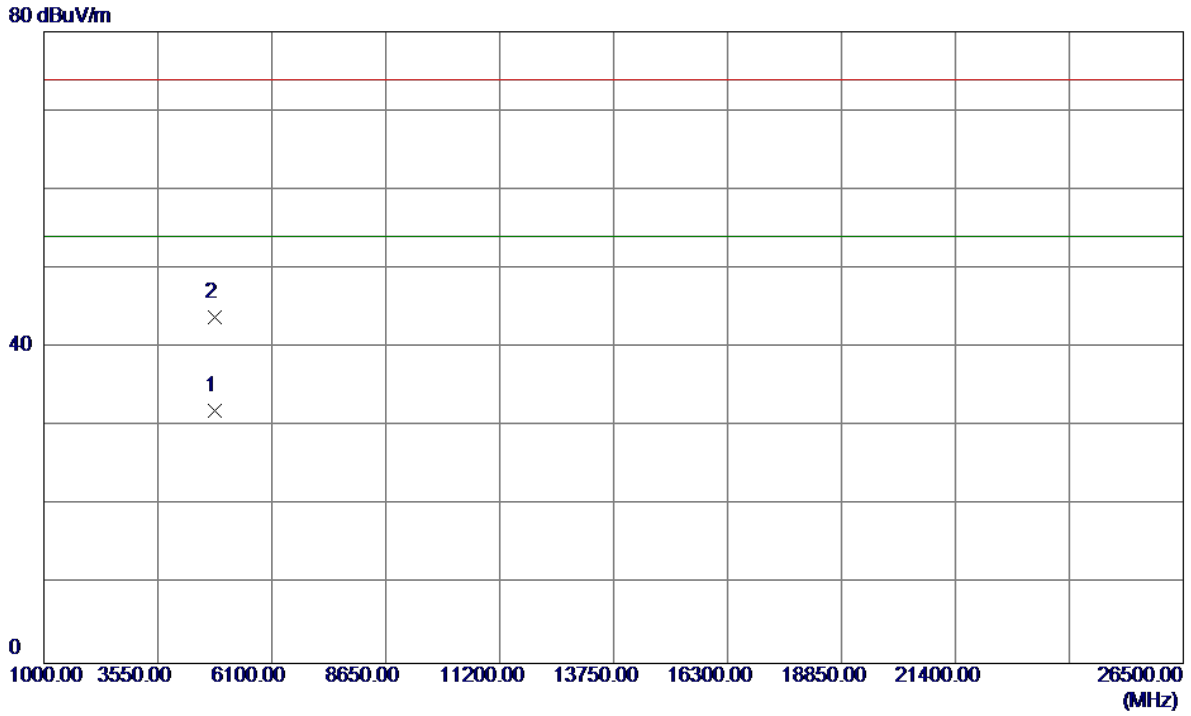
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.34	33.01	57.35	74.00	-16.65	Peak	
2	2390.0000	14.86	33.01	47.87	54.00	-6.13	AVG	
3	2407.6000	76.54	33.08	109.62	74.00	35.62	Peak	No Limit
4 *	2408.6000	66.40	33.09	99.49	54.00	45.49	AVG	No Limit

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

**Horizontal**

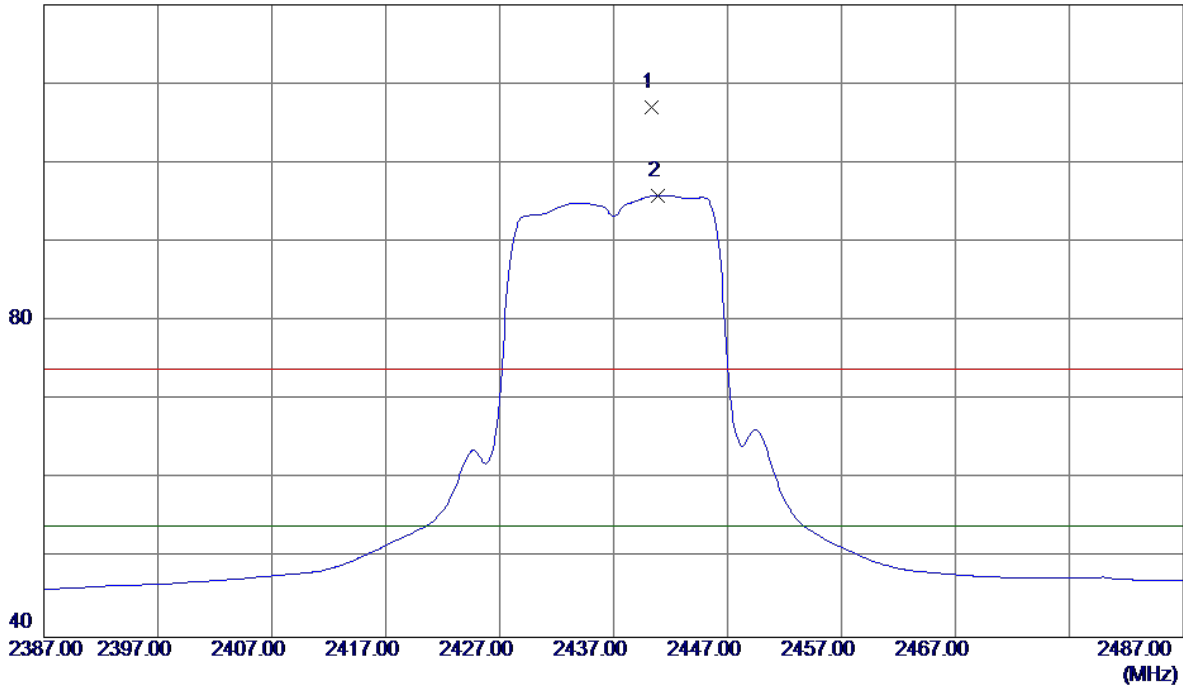


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.5200	27.19	4.86	32.05	54.00	-21.95	AVG	
2	4824.9670	38.96	4.86	43.82	74.00	-30.18	Peak	

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

**Vertical**

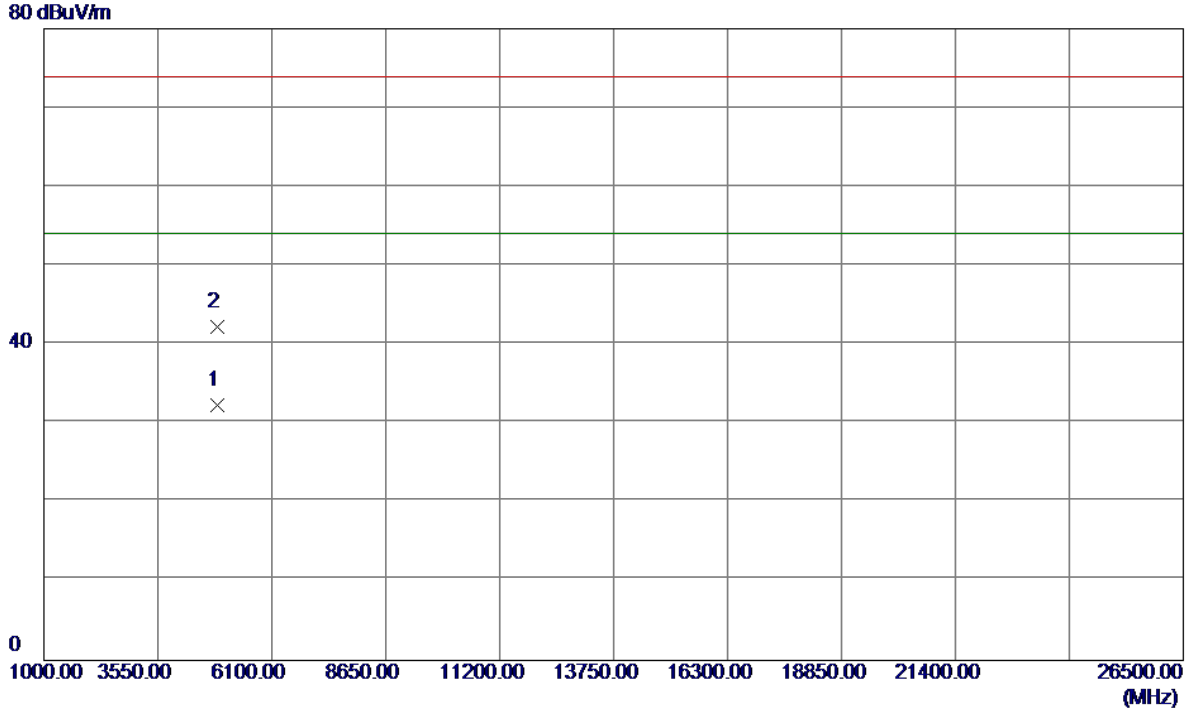
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.3000	73.76	33.22	106.98	74.00	32.98	Peak	No Limit
2 *	2440.9000	62.69	33.22	95.91	54.00	41.91	AVG	No Limit

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

**Vertical**

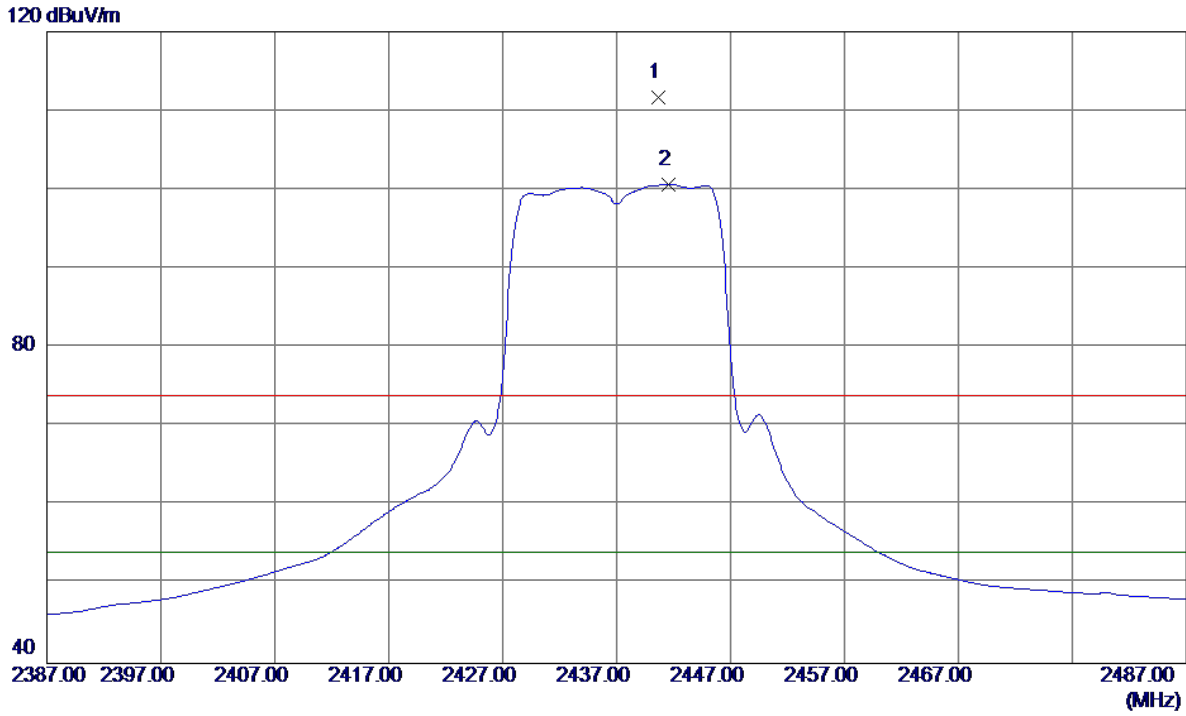


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.3050	27.29	5.07	32.36	54.00	-21.64	AVG	
2	4874.4500	37.11	5.07	42.18	74.00	-31.82	Peak	



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

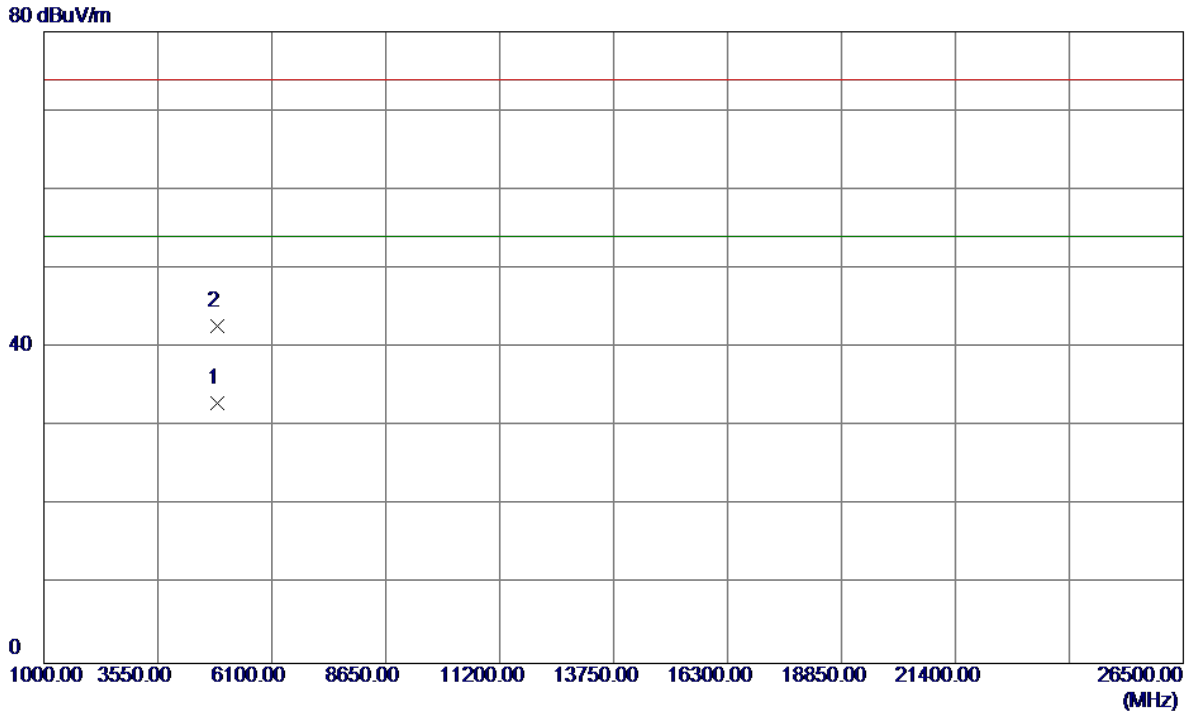
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.7000	78.51	33.22	111.73	74.00	37.73	Peak	No Limit
2 *	2441.6000	67.41	33.23	100.64	54.00	46.64	AVG	No Limit

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

**Horizontal**

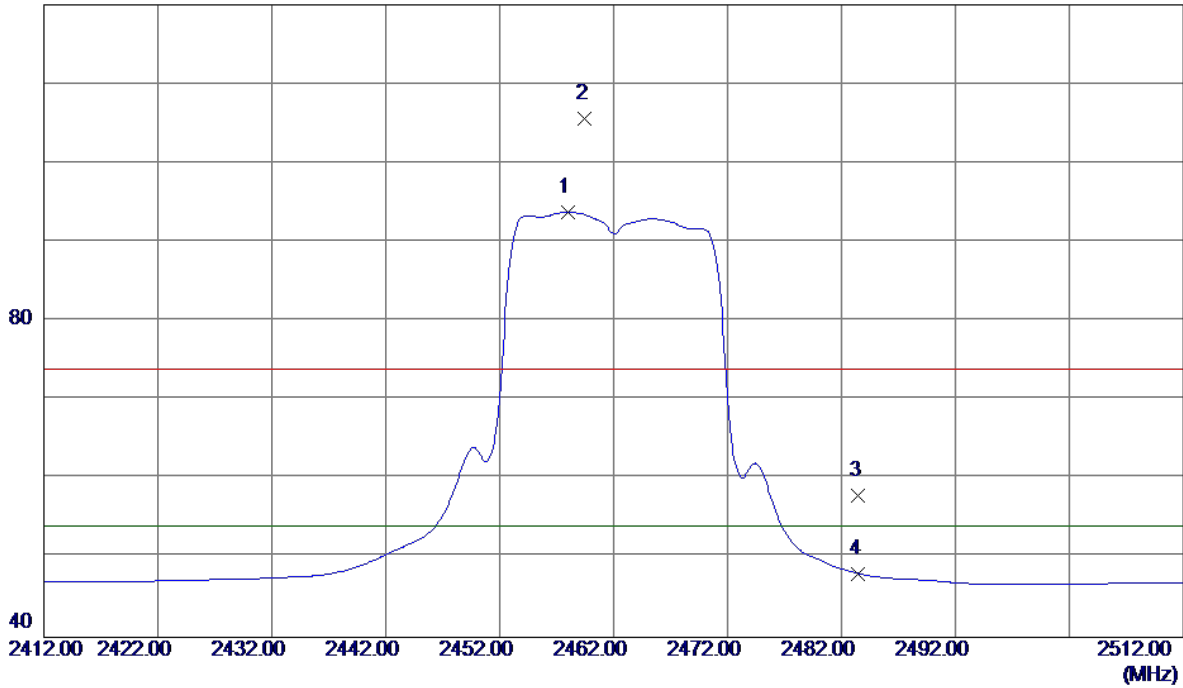


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.3940	27.84	5.07	32.91	54.00	-21.09	AVG	
2	4874.9570	37.68	5.07	42.75	74.00	-31.25	Peak	

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

**Vertical**

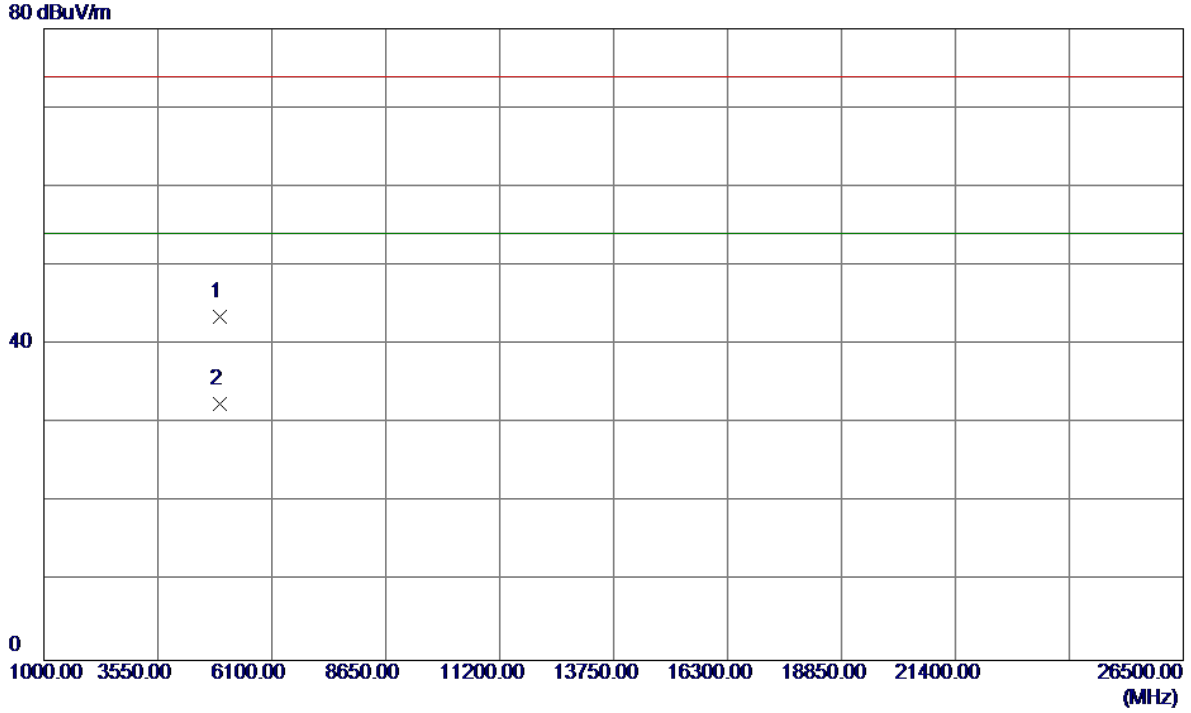
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.0000	60.48	33.29	93.77	54.00	39.77	AVG	No Limit
2	2459.5000	72.33	33.30	105.63	74.00	31.63	Peak	No Limit
3	2483.5000	24.47	33.40	57.87	74.00	-16.13	Peak	
4	2483.5000	14.67	33.40	48.07	54.00	-5.93	AVG	

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

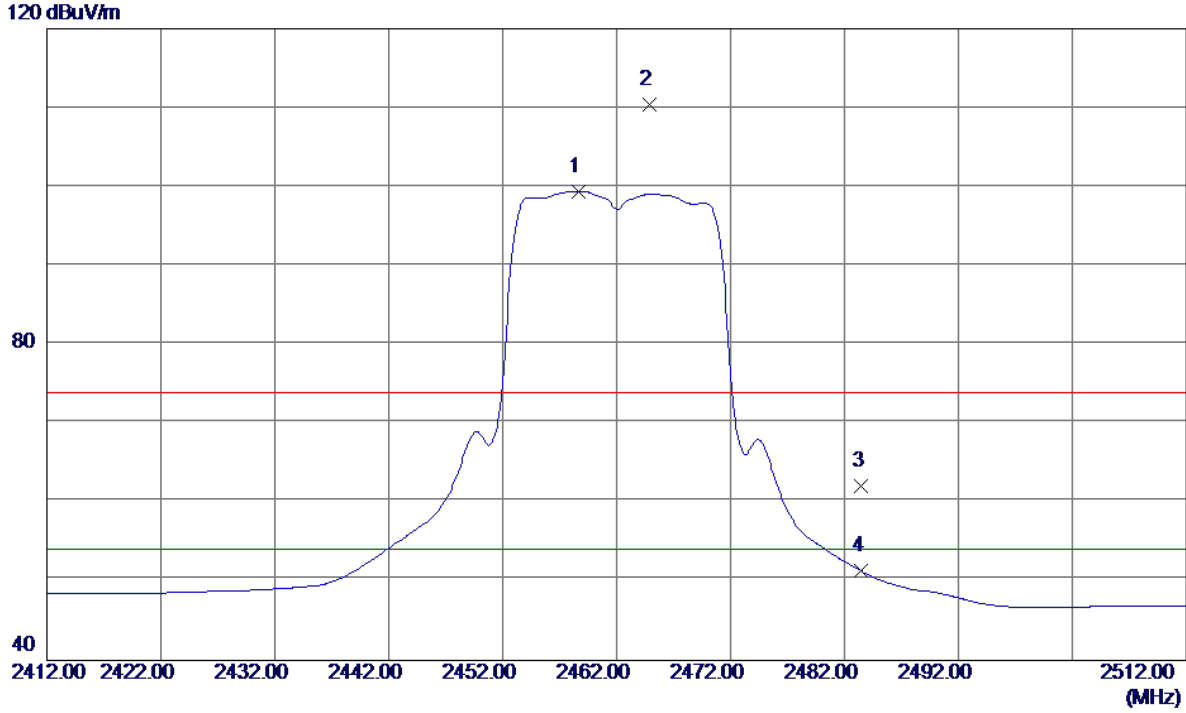
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.8950	38.28	5.28	43.56	74.00	-30.44	Peak	
2 *	4924.2850	27.16	5.28	32.44	54.00	-21.56	AVG	

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

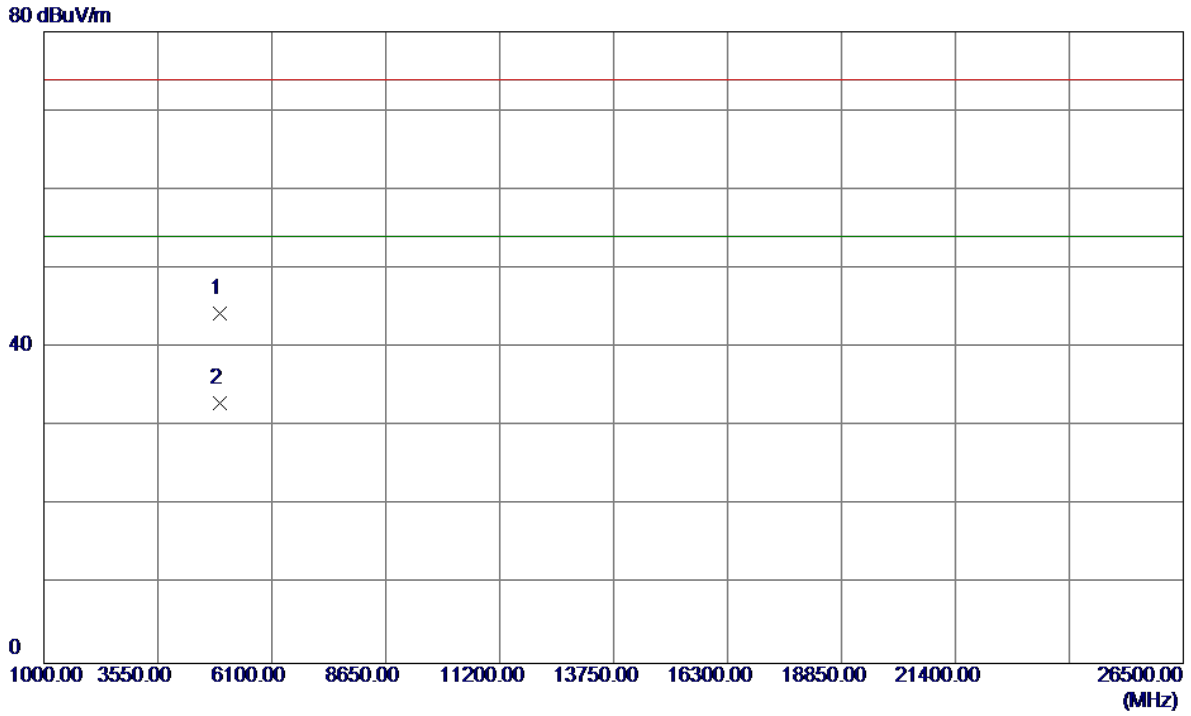
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.7000	66.10	33.30	99.40	54.00	45.40	AVG	No Limit
2	2464.9000	77.10	33.32	110.42	74.00	36.42	Peak	No Limit
3	2483.5000	28.73	33.40	62.13	74.00	-11.87	Peak	
4	2483.5000	17.89	33.40	51.29	54.00	-2.71	AVG	

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

**Horizontal**

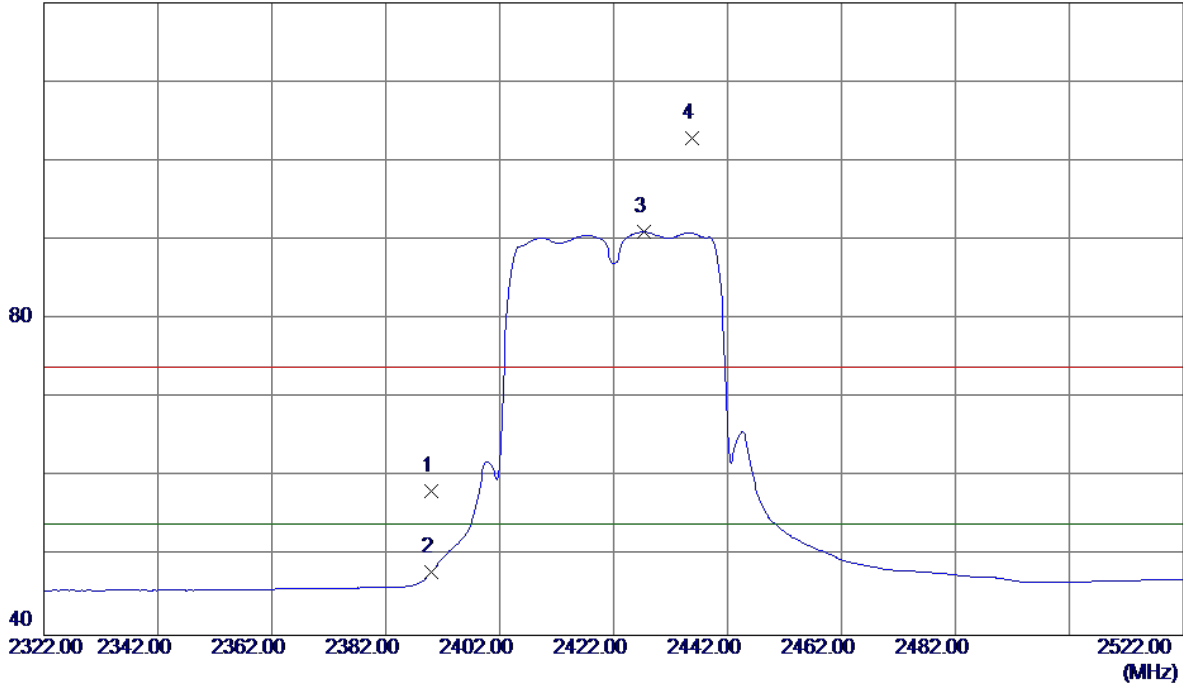


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.2570	39.01	5.28	44.29	74.00	-29.71	Peak	
2 *	4925.9330	27.73	5.29	33.02	54.00	-20.98	AVG	

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

**Vertical**

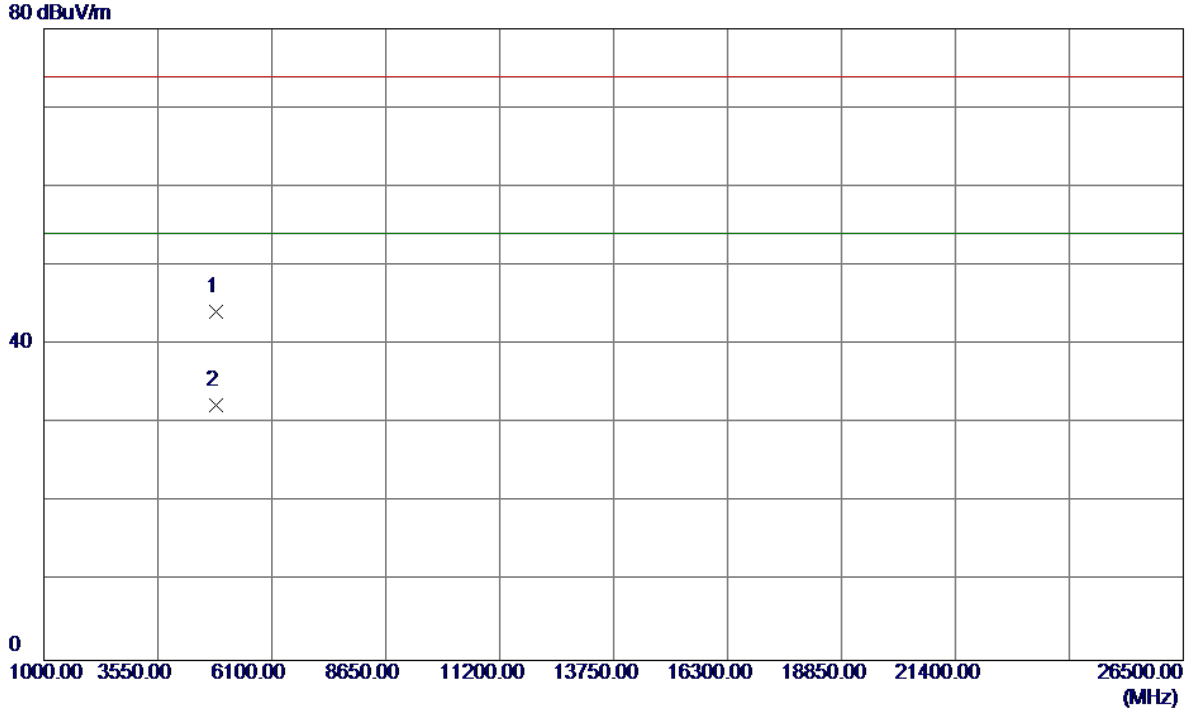
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.23	33.01	58.24	74.00	-15.76	Peak	
2	2390.0000	15.00	33.01	48.01	54.00	-5.99	AVG	
3 *	2427.4000	57.84	33.17	91.01	54.00	37.01	AVG	No Limit
4	2435.8000	69.76	33.20	102.96	74.00	28.96	Peak	No Limit

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

**Vertical**

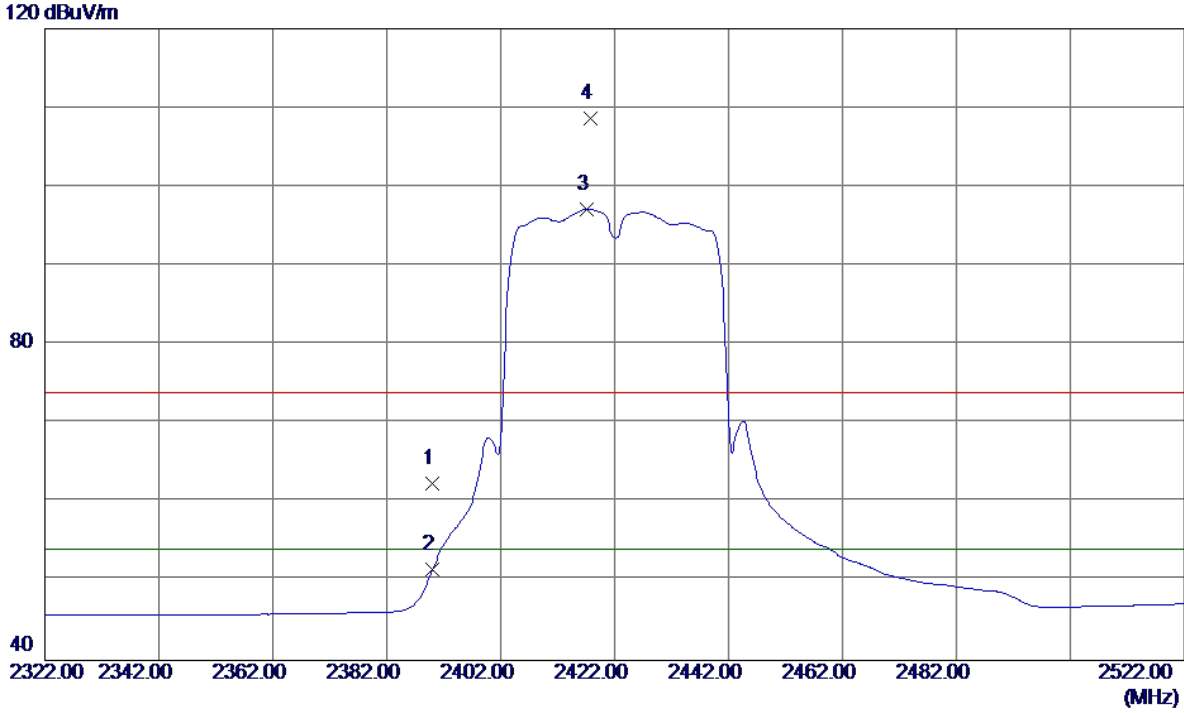


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.8200	39.22	4.94	44.16	74.00	-29.84	Peak	
2 *	4844.1150	27.36	4.94	32.30	54.00	-21.70	AVG	



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

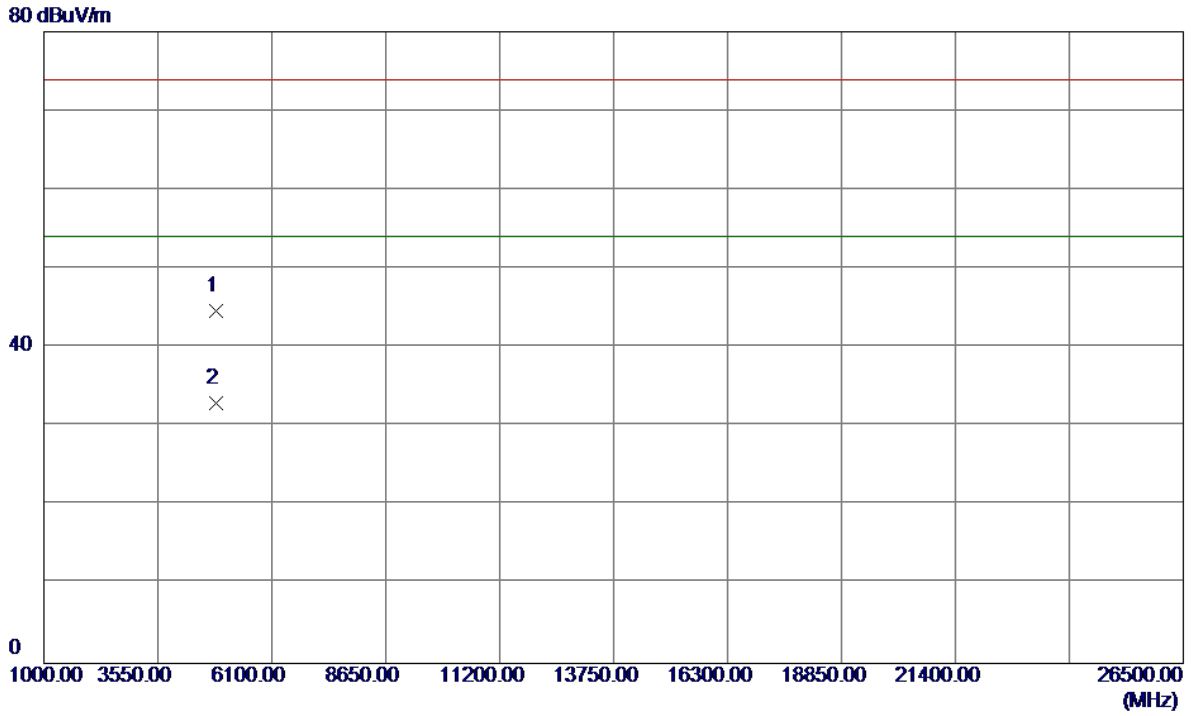
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.32	33.01	62.33	74.00	-11.67	Peak	
2	2390.0000	18.45	33.01	51.46	54.00	-2.54	AVG	
3 *	2417.2000	64.06	33.12	97.18	54.00	43.18	AVG	No Limit
4	2417.8000	75.56	33.13	108.69	74.00	34.69	Peak	No Limit

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

**Horizontal**

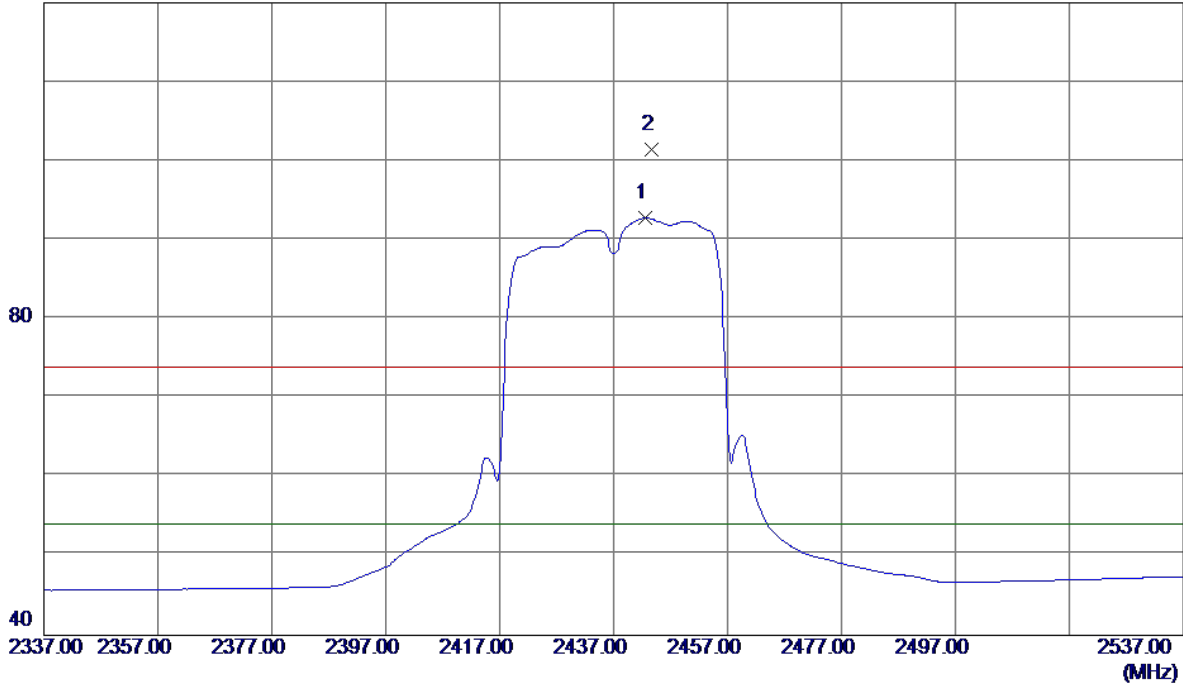


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2580	39.69	4.94	44.63	74.00	-29.37	Peak	
2 *	4844.3940	28.05	4.94	32.99	54.00	-21.01	AVG	

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

**Vertical**

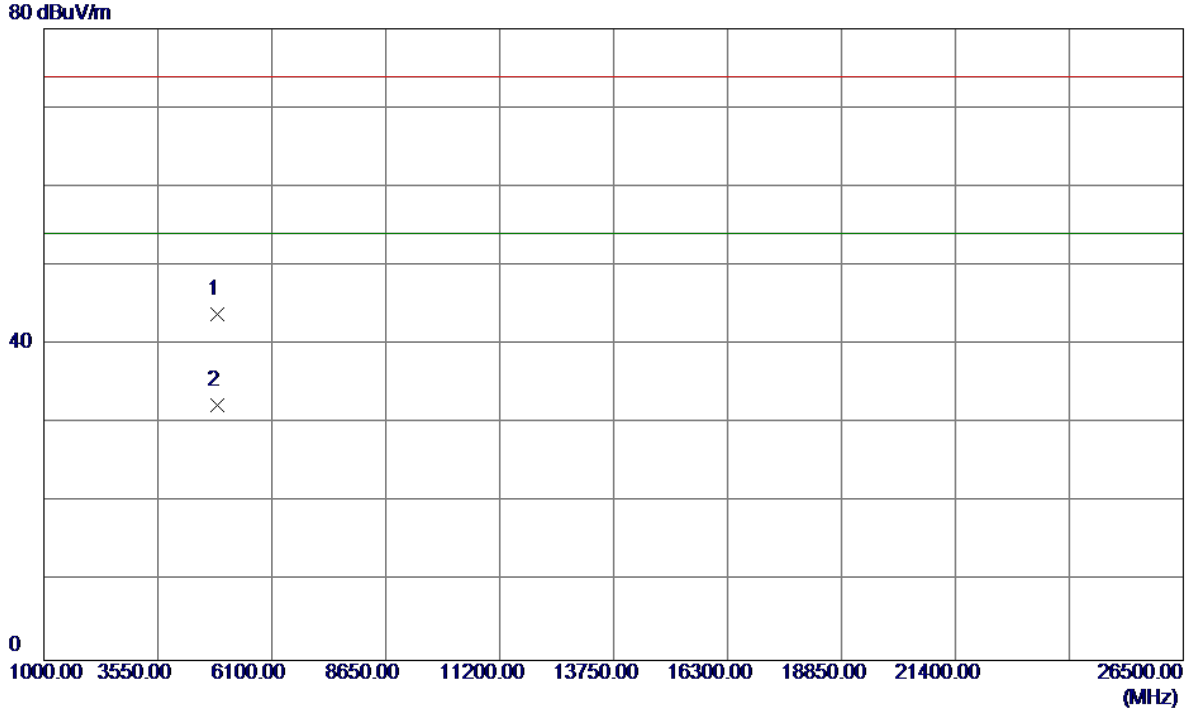
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2442.6000	59.57	33.23	92.80	54.00	38.80	AVG	No Limit
2	2443.6000	68.24	33.23	101.47	74.00	27.47	Peak	No Limit

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

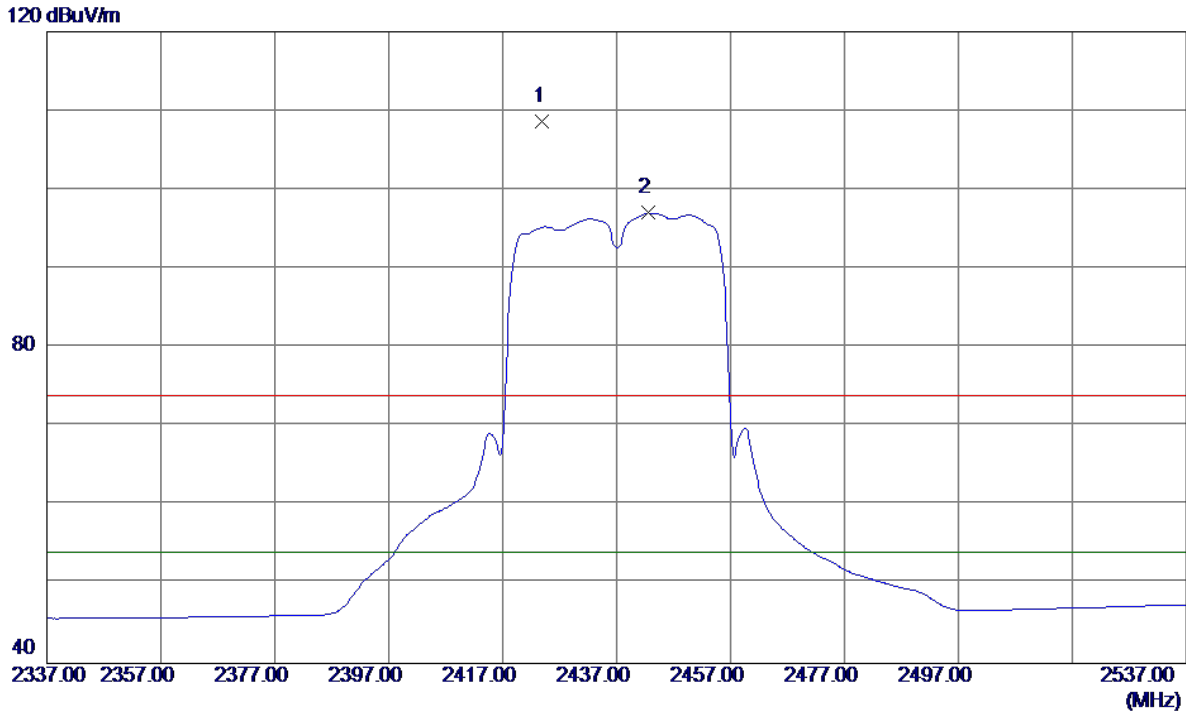
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.6050	38.83	5.07	43.90	74.00	-30.10	Peak	
2 *	4874.7850	27.30	5.07	32.37	54.00	-21.63	AVG	

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

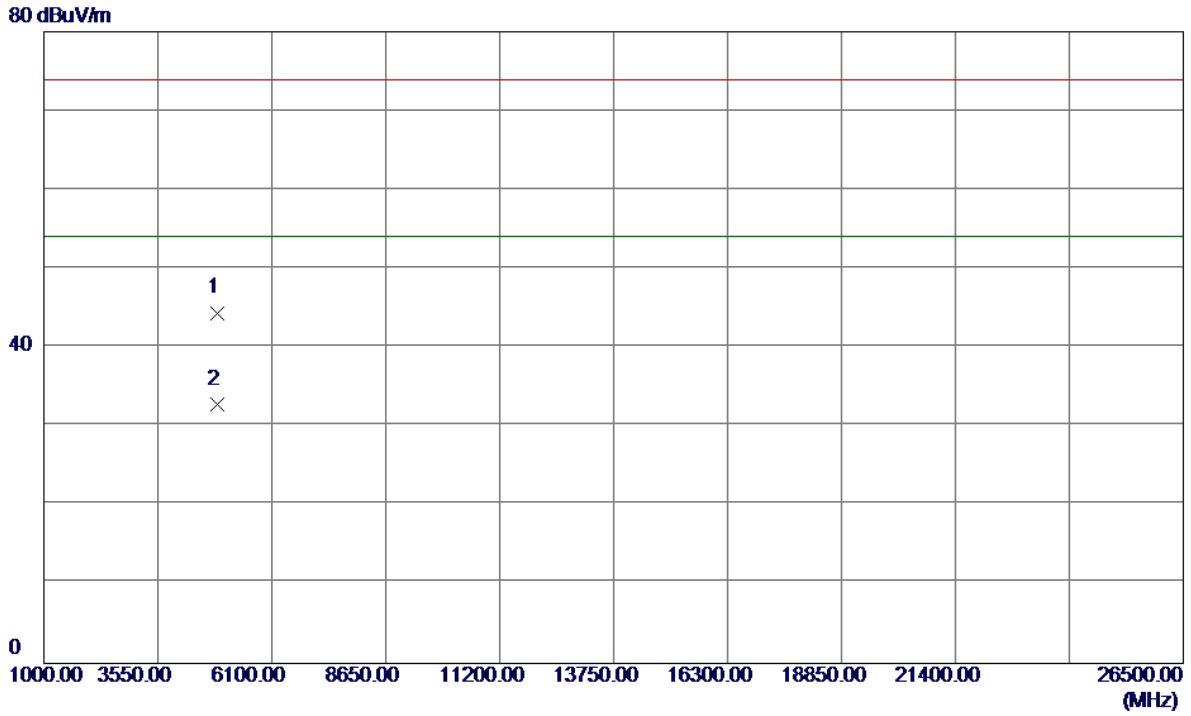
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2424.0000	75.51	33.15	108.66	74.00	34.66	Peak	No Limit
2 *	2442.6000	63.81	33.23	97.04	54.00	43.04	AVG	No Limit

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

**Horizontal**

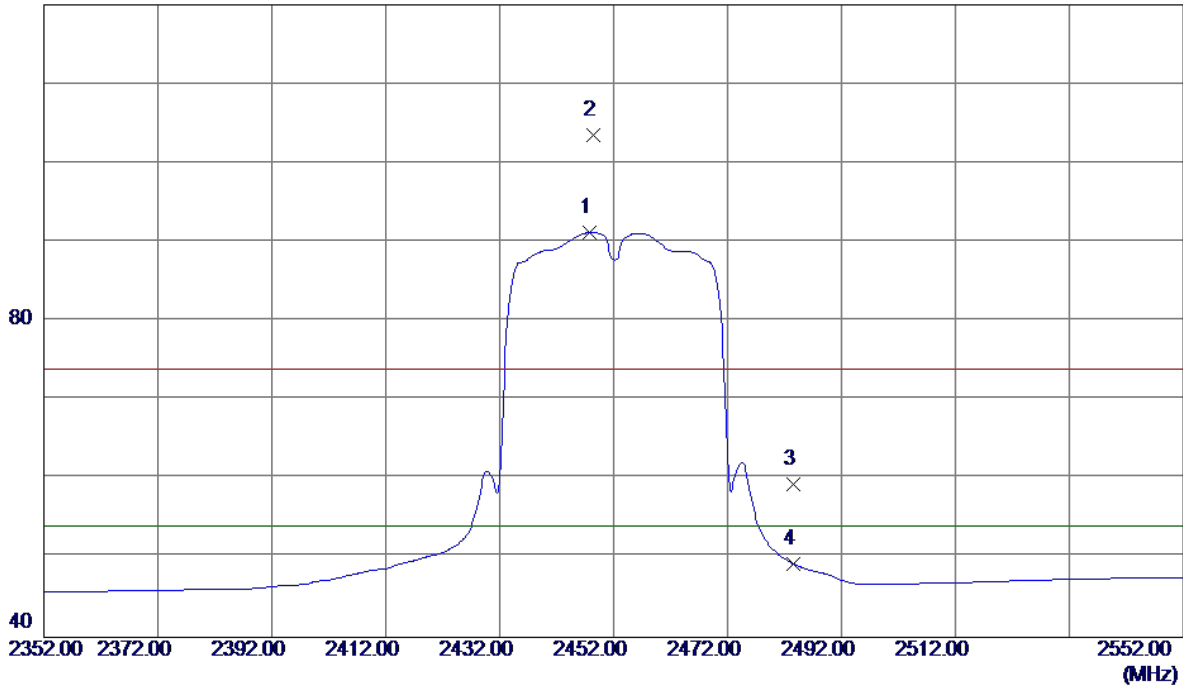


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1120	39.33	5.07	44.40	74.00	-29.60	Peak	
2 *	4874.9640	27.77	5.07	32.84	54.00	-21.16	AVG	

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

**Vertical**

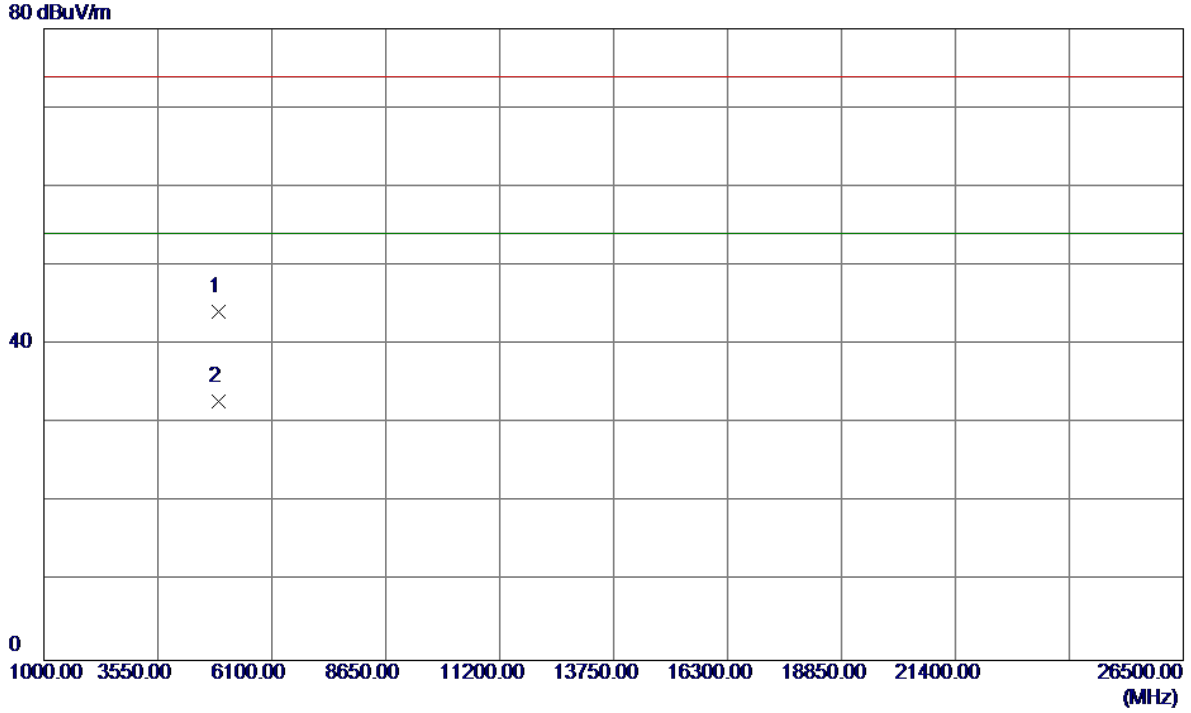
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2447.8000	57.94	33.25	91.19	54.00	37.19	AVG	No Limit
2	2448.4000	70.23	33.25	103.48	74.00	29.48	Peak	No Limit
3	2483.5000	25.99	33.40	59.39	74.00	-14.61	Peak	
4	2483.5000	15.87	33.40	49.27	54.00	-4.73	AVG	

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

**Vertical**

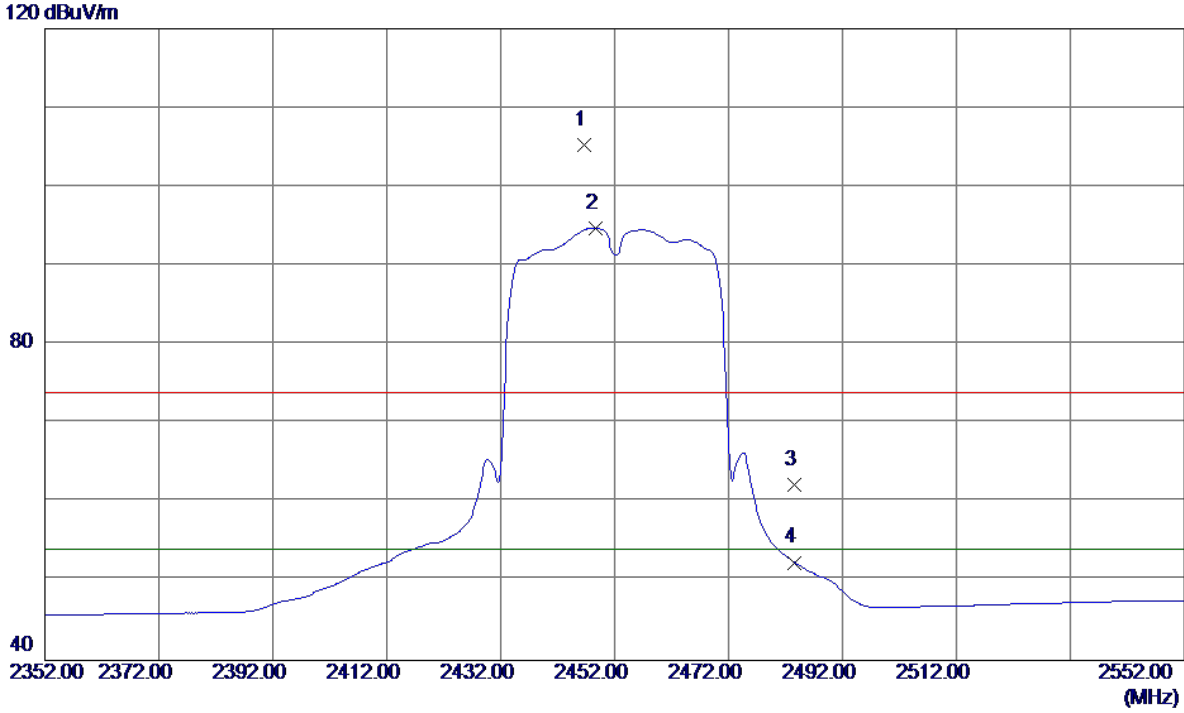


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.5600	38.93	5.20	44.13	74.00	-29.87	Peak	
2 *	4904.8100	27.63	5.20	32.83	54.00	-21.17	AVG	



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

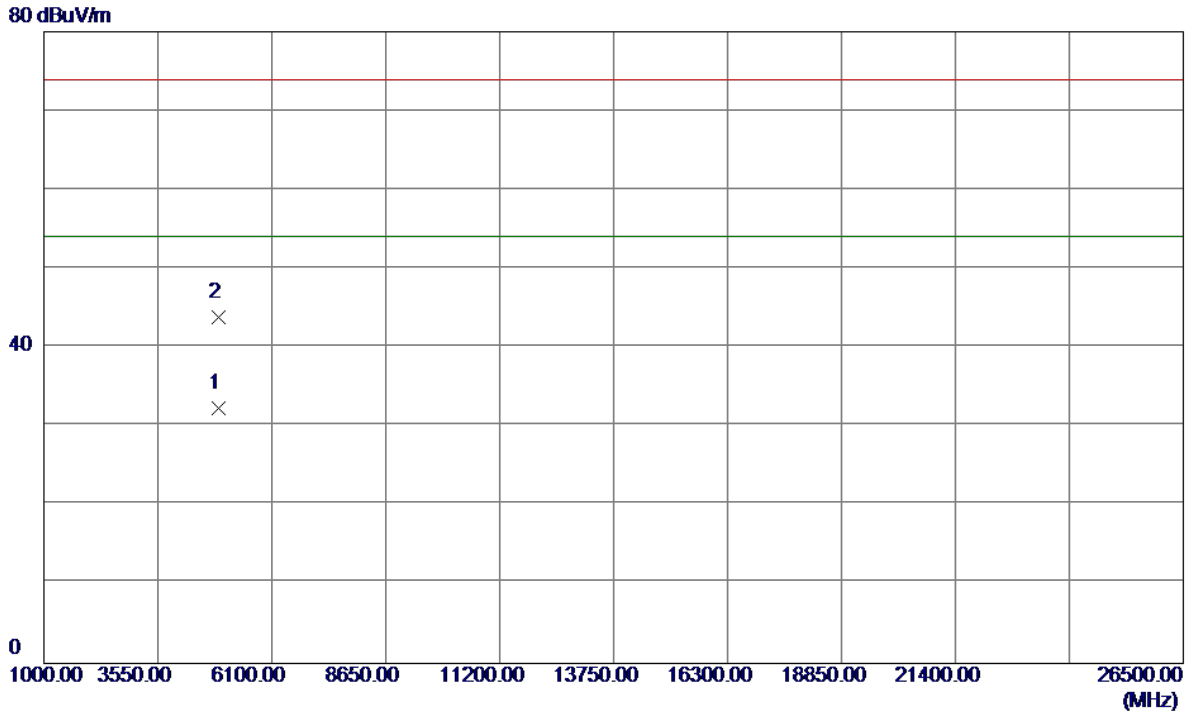
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2446.6000	71.96	33.25	105.21	74.00	31.21	Peak	No Limit
2 *	2448.6000	61.45	33.26	94.71	54.00	40.71	AVG	No Limit
3	2483.5000	28.85	33.40	62.25	74.00	-11.75	Peak	
4	2483.5000	19.00	33.40	52.40	54.00	-1.60	AVG	

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

**Horizontal**



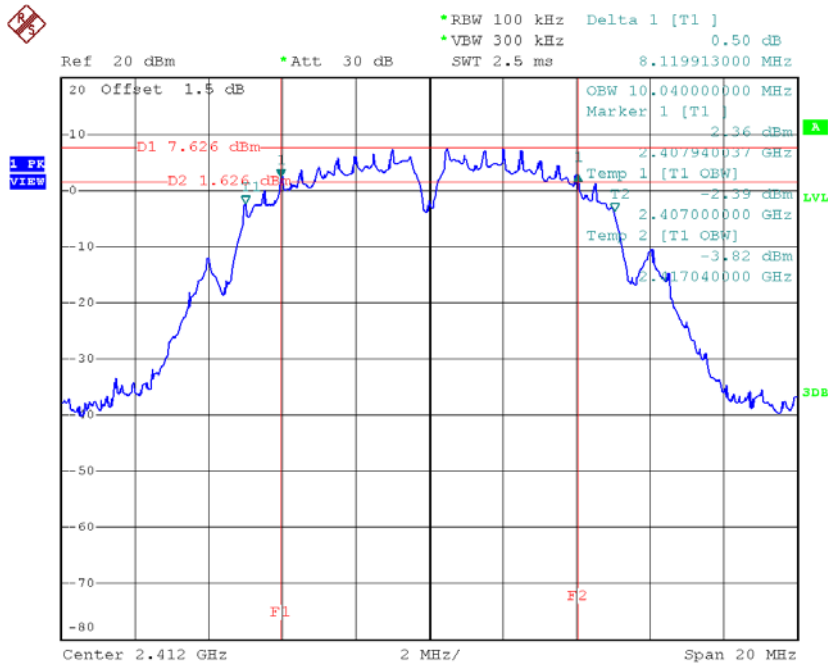
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.2700	27.16	5.19	32.35	54.00	-21.65	AVG	
2	4904.4850	38.65	5.19	43.84	74.00	-30.16	Peak	

## ATTACHMENT E - BANDWIDTH

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

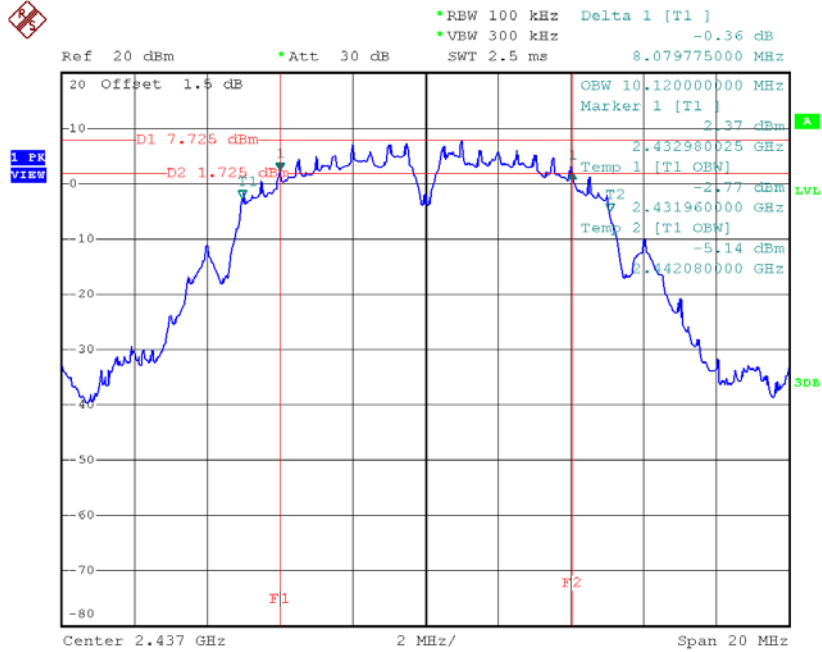
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.12	10.04	500	Complies
2437	8.08	10.12	500	Complies
2462	7.61	10.04	500	Complies

**TX CH01**



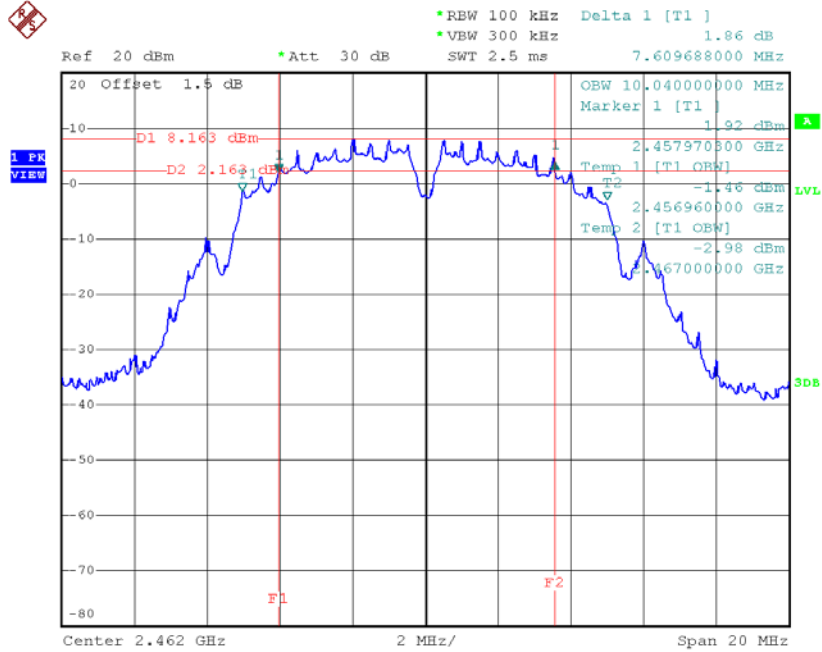
Date: 10.JAN.2017 08:48:05

**TX CH06**



Date: 10.JAN.2017 08:49:59

**TX CH11**

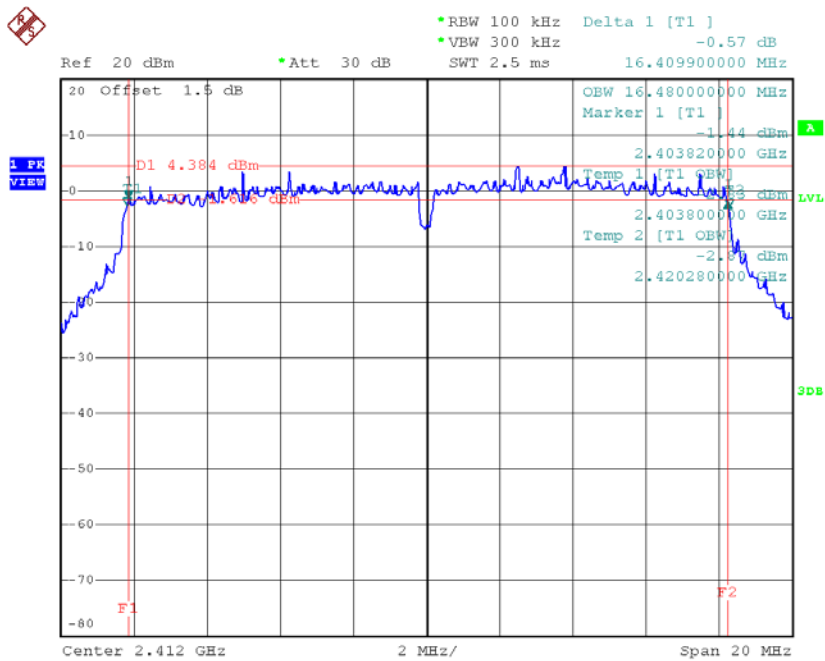


Date: 10.JAN.2017 08:51:42

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

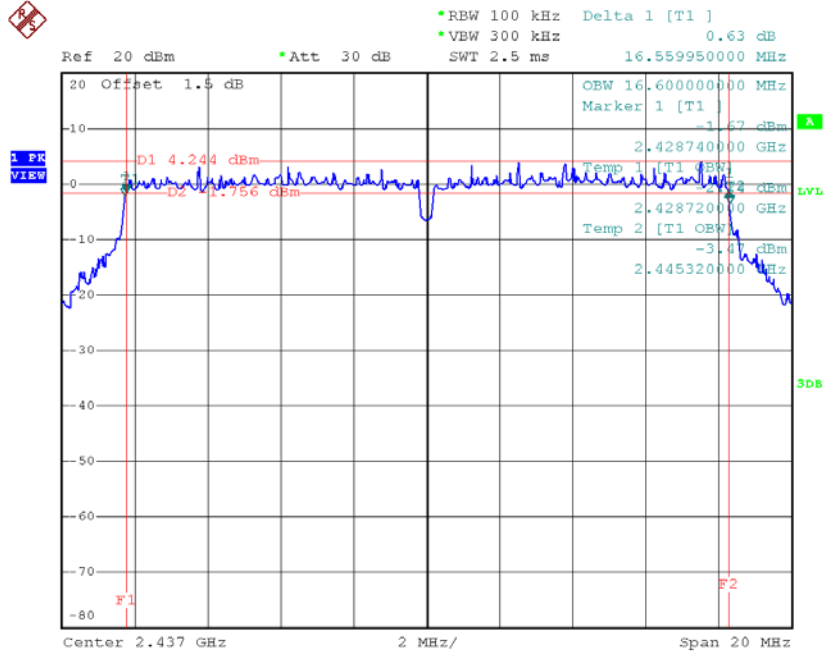
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.41	16.48	500	Complies
2437	16.56	16.6	500	Complies
2462	16.39	16.48	500	Complies

**TX CH01**



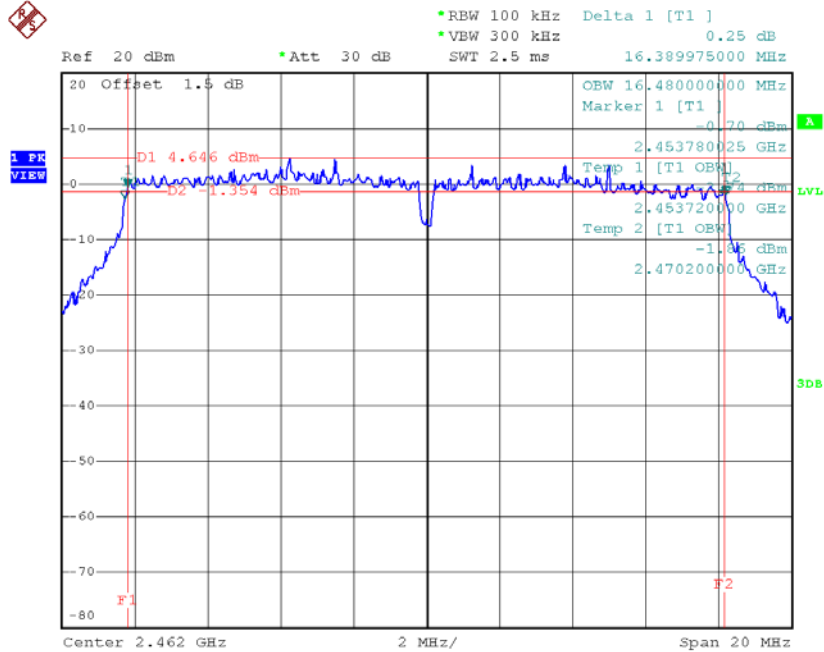
Date: 10.JAN.2017 08:53:16

**TX CH06**



Date: 10.JAN.2017 08:55:02

**TX CH11**

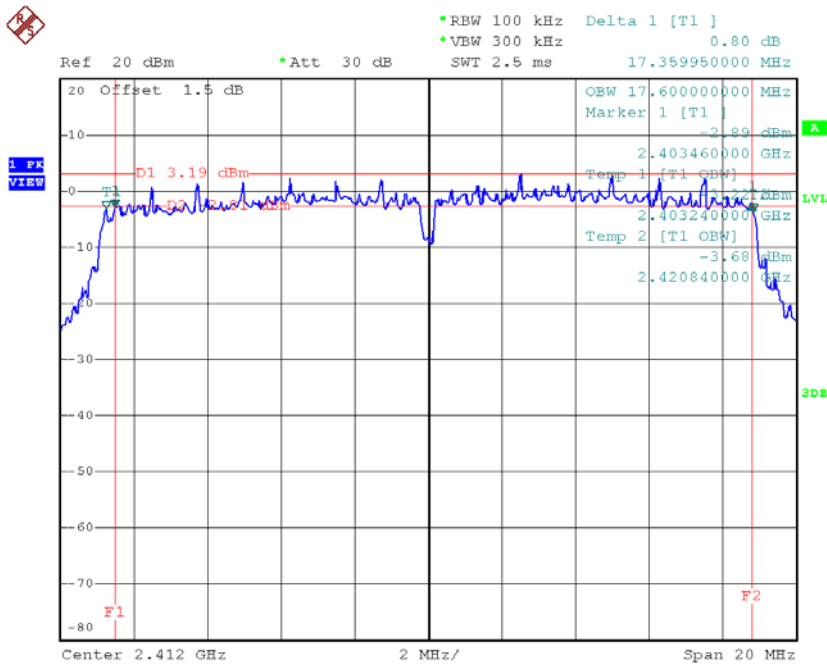


Date: 10.JAN.2017 08:56:34

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.36	17.6	500	Complies
2437	17.67	17.72	500	Complies
2462	17.61	17.64	500	Complies

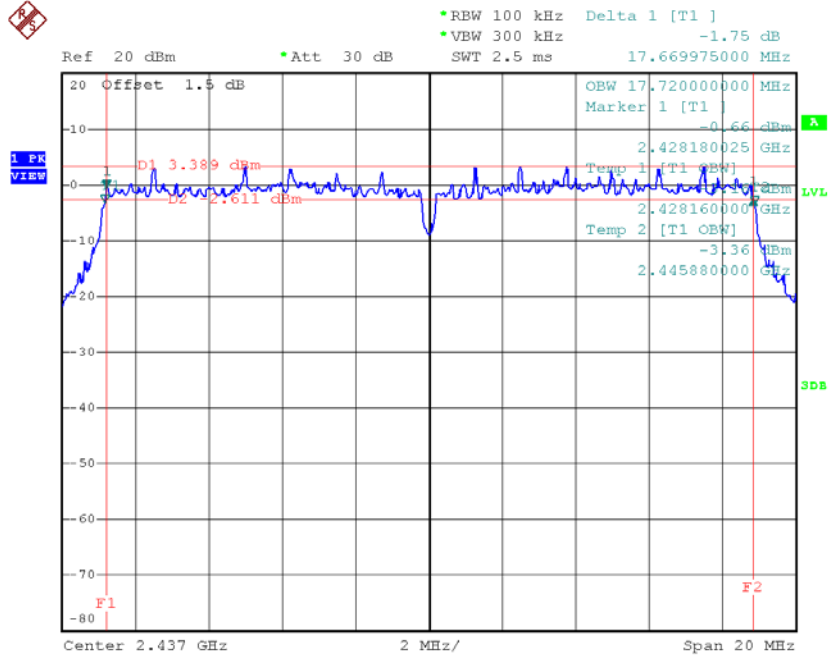
**TX CH01**



Date: 10.JAN.2017 09:00:20

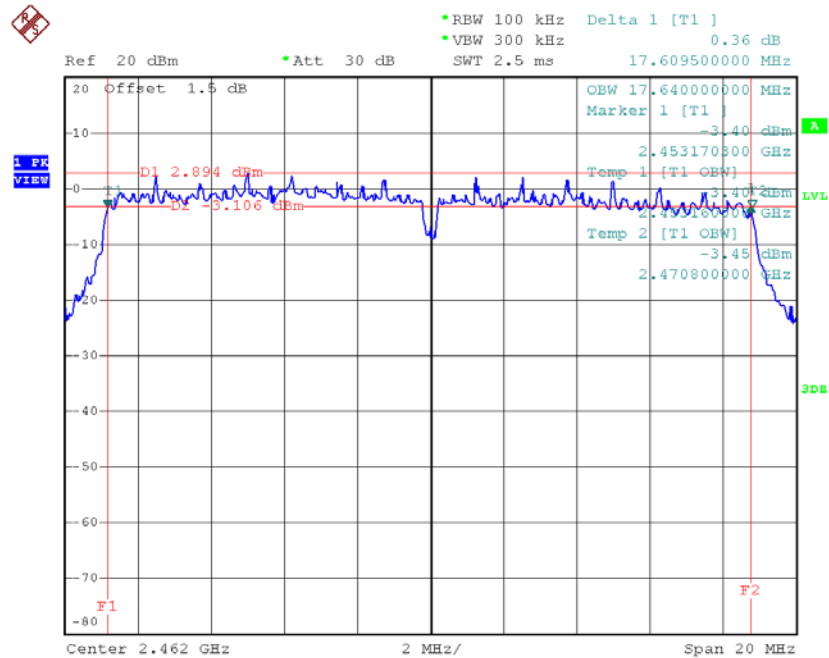


**TX CH06**



Date: 10.JAN.2017 09:01:49

**TX CH11**

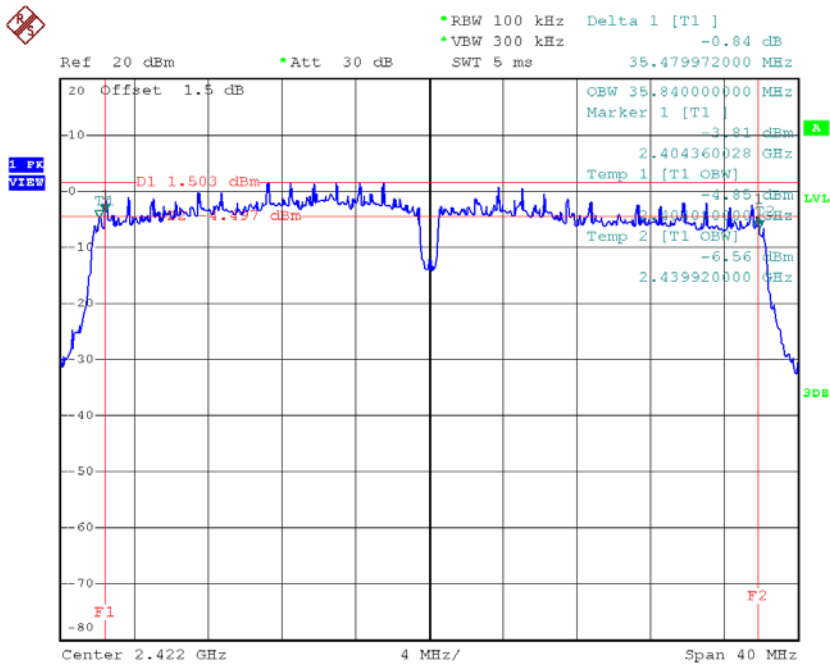


Date: 10.JAN.2017 09:03:10

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

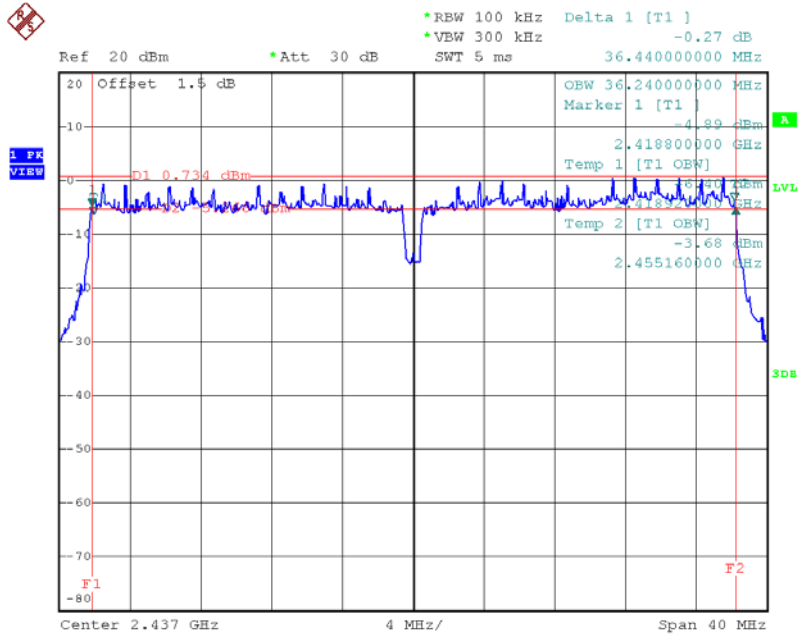
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.48	35.84	500	Complies
2437	36.44	36.24	500	Complies
2452	35.2	35.84	500	Complies

TX CH03



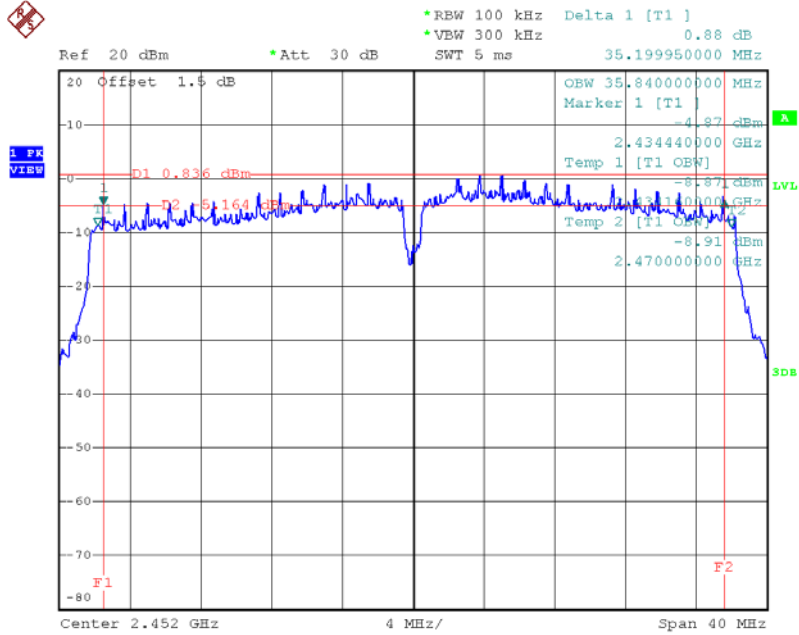
Date: 10.JAN.2017 09:14:51

**TX CH06**



Date: 10.JAN.2017 09:16:18

**TX CH09**



Date: 10.JAN.2017 09:18:09

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

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.25	0.11	30.00	1.00	Complies
2437	20.36	0.11	30.00	1.00	Complies
2462	20.17	0.10	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.16	0.10	30.00	1.00	Complies
2437	20.39	0.11	30.00	1.00	Complies
2462	20.14	0.10	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	26.43	0.44	30.00	1.00	Complies
2437	26.68	0.47	30.00	1.00	Complies
2462	26.70	0.47	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	26.62	0.46	30.00	1.00	Complies
2437	26.15	0.41	30.00	1.00	Complies
2462	25.56	0.36	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	29.54	0.90	30.00	1.00	Complies
2437	29.43	0.88	30.00	1.00	Complies
2462	29.18	0.83	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	25.80	0.38	30.00	1.00	Complies
2437	25.81	0.38	30.00	1.00	Complies
2452	25.48	0.35	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	26.33	0.43	30.00	1.00	Complies
2437	26.33	0.43	30.00	1.00	Complies
2452	25.14	0.33	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	29.08	0.81	30.00	1.00	Complies
2437	29.09	0.81	30.00	1.00	Complies
2452	28.32	0.68	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.31	0.04	30.00	1.00	Complies
2437	16.21	0.04	30.00	1.00	Complies
2462	16.24	0.04	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.29	0.04	30.00	1.00	Complies
2437	16.39	0.04	30.00	1.00	Complies
2462	16.27	0.04	30.00	1.00	Complies



Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.74	0.03	30.00	1.00	Complies
2437	15.47	0.04	30.00	1.00	Complies
2462	14.67	0.03	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.91	0.03	30.00	1.00	Complies
2437	15.19	0.03	30.00	1.00	Complies
2462	14.16	0.03	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.72	0.03	30.00	1.00	Complies
2437	14.87	0.03	30.00	1.00	Complies
2462	14.60	0.03	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.89	0.03	30.00	1.00	Complies
2437	14.69	0.03	30.00	1.00	Complies
2452	13.05	0.02	30.00	1.00	Complies

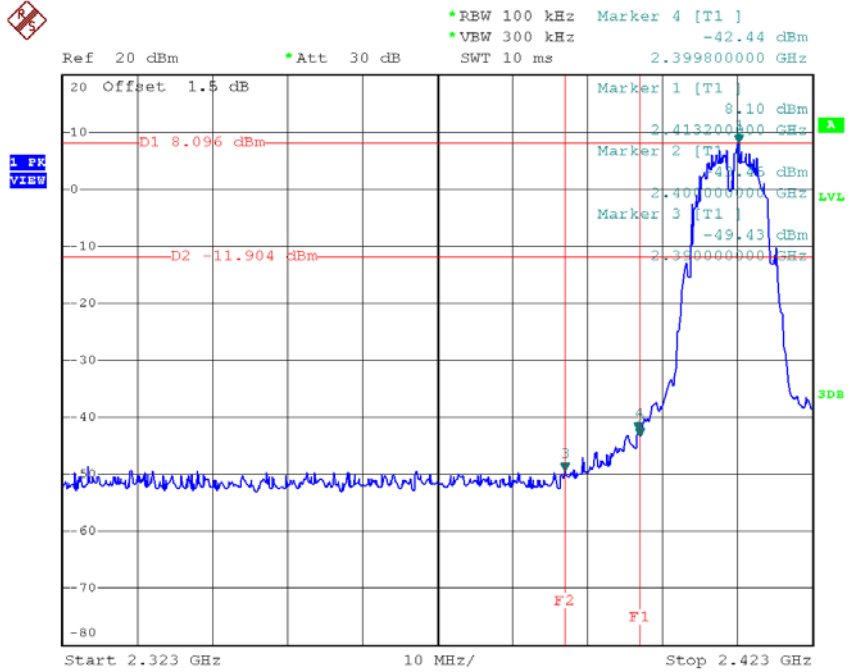
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.21	0.03	30.00	1.00	Complies
2437	15.21	0.03	30.00	1.00	Complies
2452	13.62	0.02	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.79	0.81	30.00	1.00	Complies
2437	14.76	0.81	30.00	1.00	Complies
2452	14.26	0.68	30.00	1.00	Complies

# ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

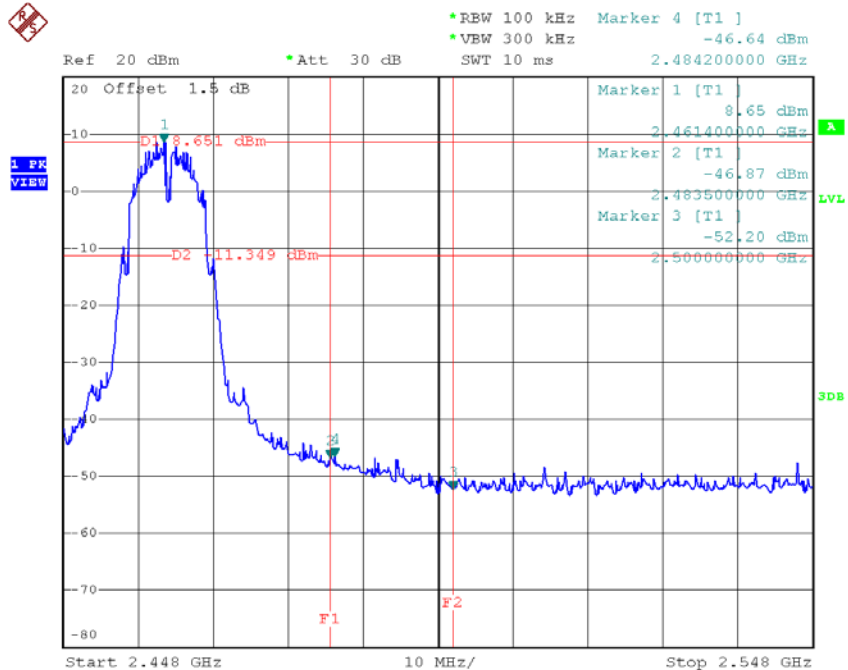
Test Mode : TX B Mode

**TX B mode CH01**



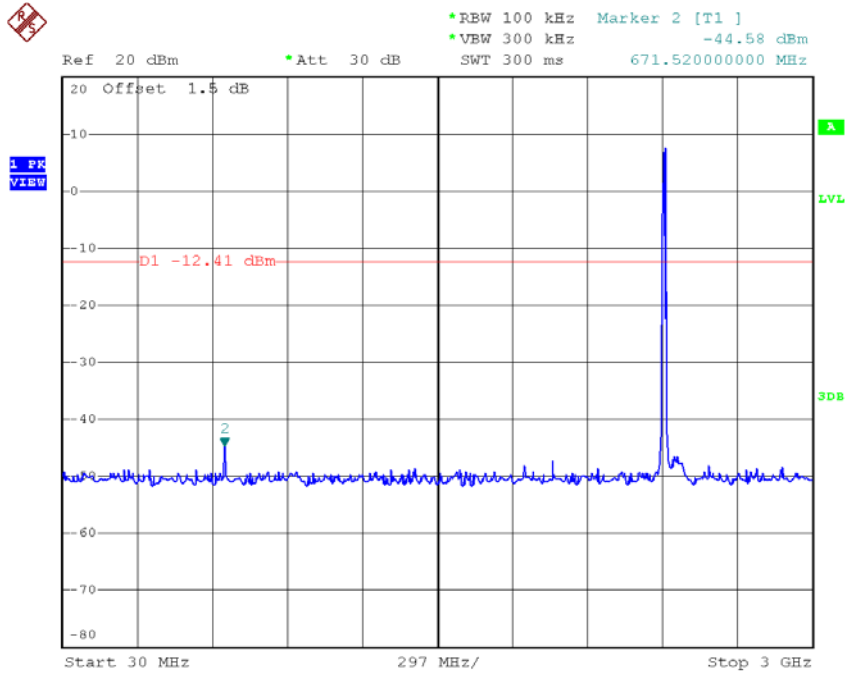
Date: 10.JAN.2017 08:48:44

**TX B mode CH11**

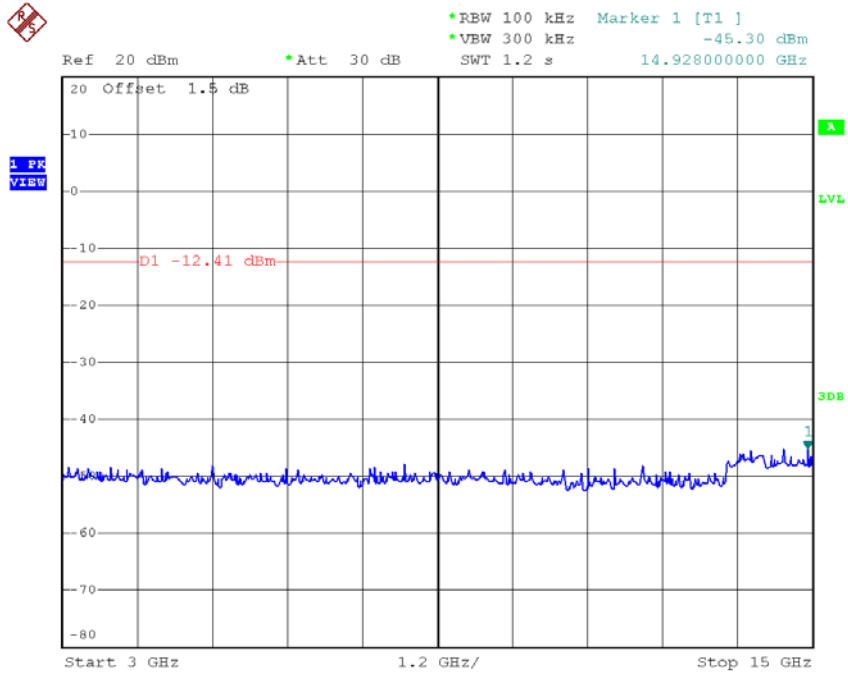


Date: 10.JAN.2017 08:52:20

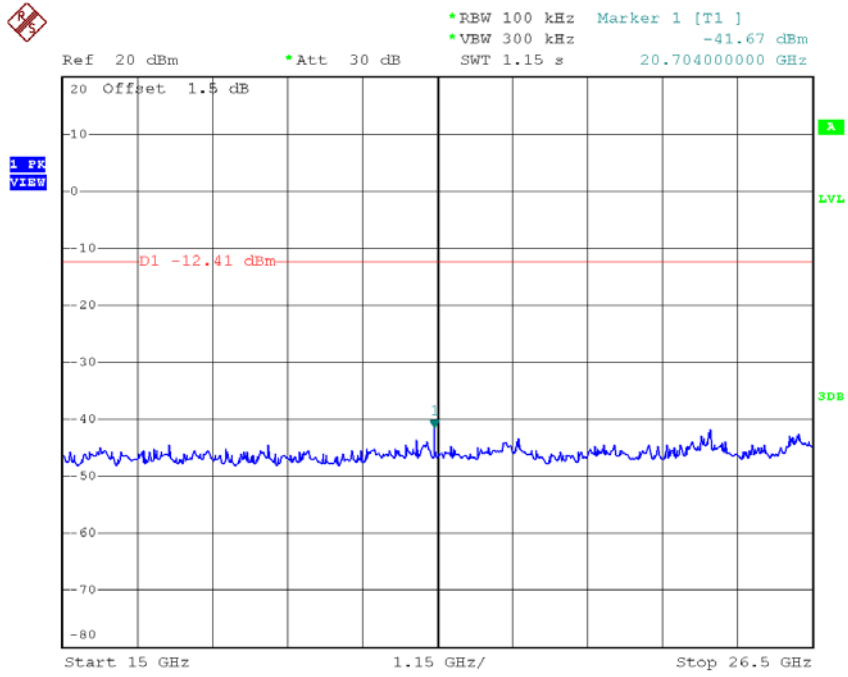
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 10.JAN.2017 08:48:19

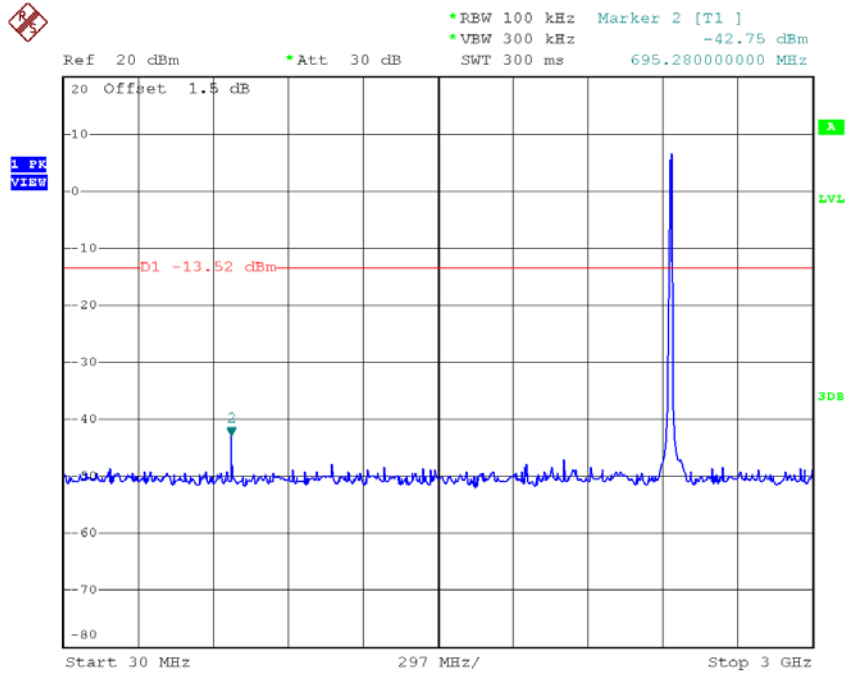


Date: 10.JAN.2017 08:48:27

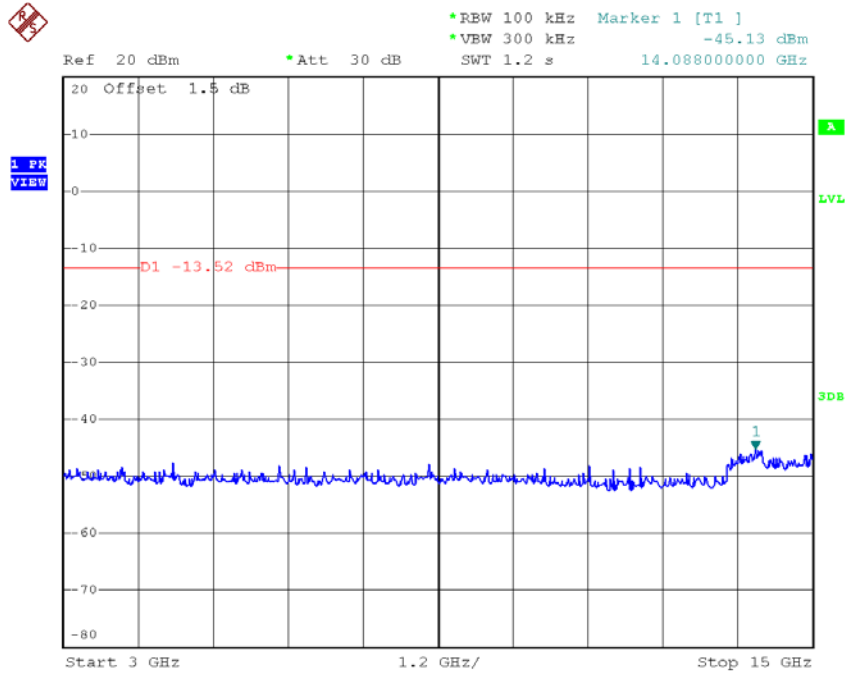


Date: 10.JAN.2017 08:48:36

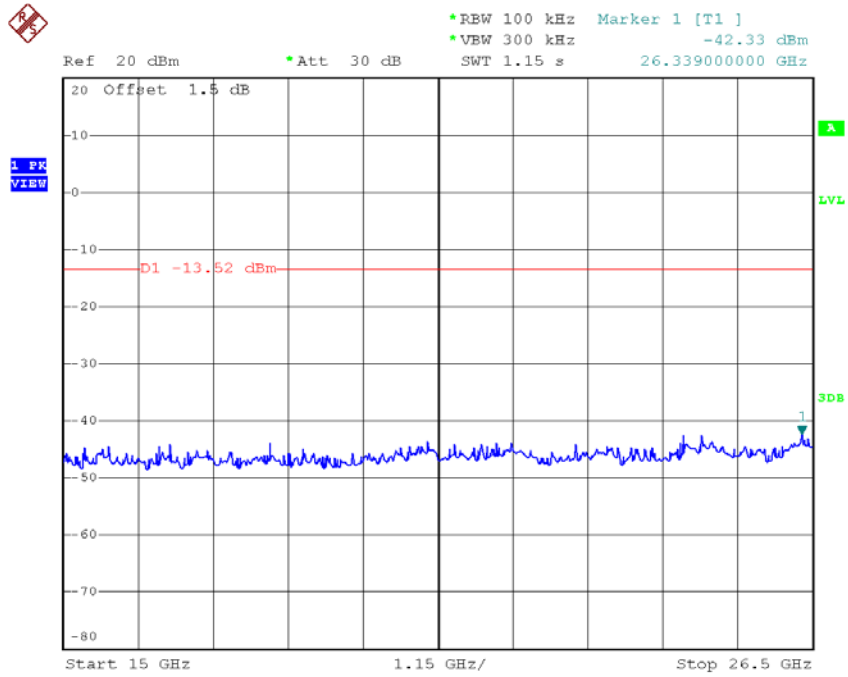
**TX B mode CH06 (10 Harmonic of the frequency)**



Date: 10.JAN.2017 08:50:13

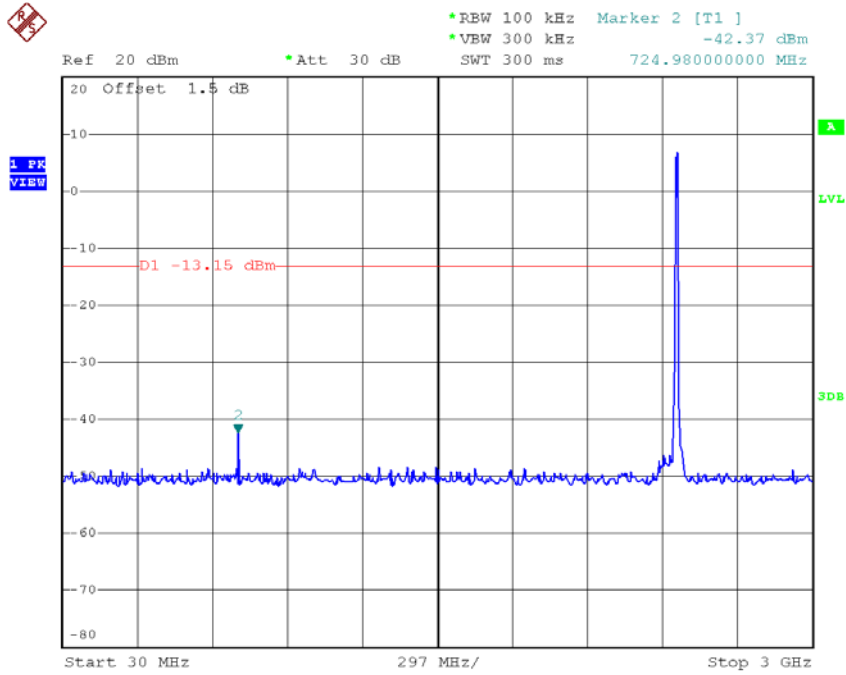


Date: 10.JAN.2017 08:50:21

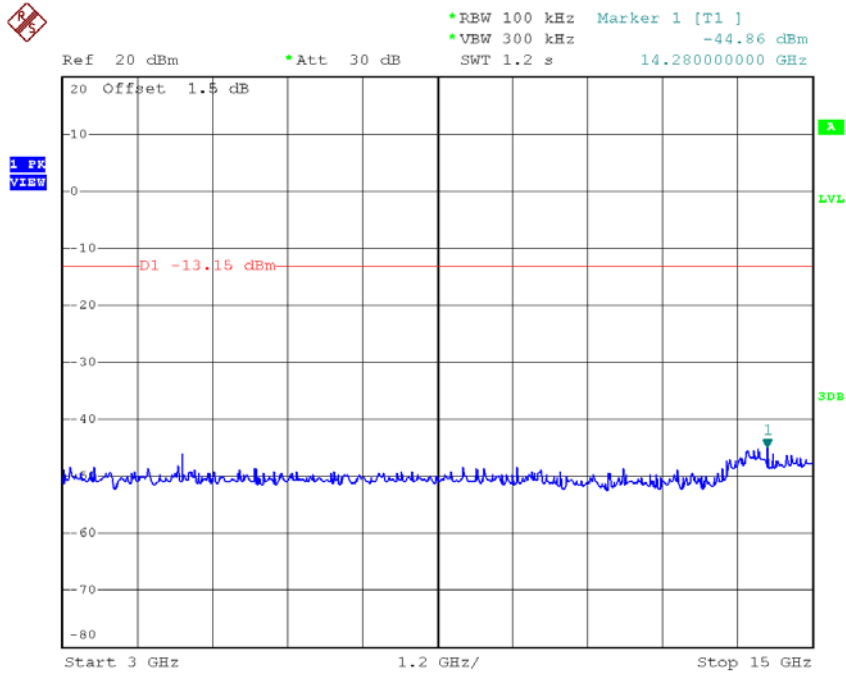


Date: 10.JAN.2017 08:50:30

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

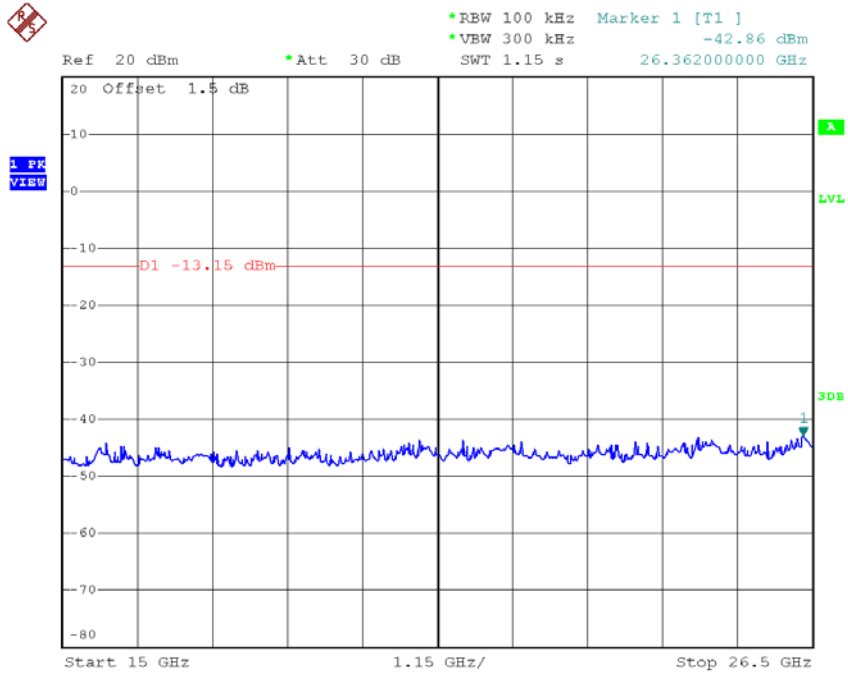


Date: 10.JAN.2017 08:51:56



Date: 10.JAN.2017 08:52:04

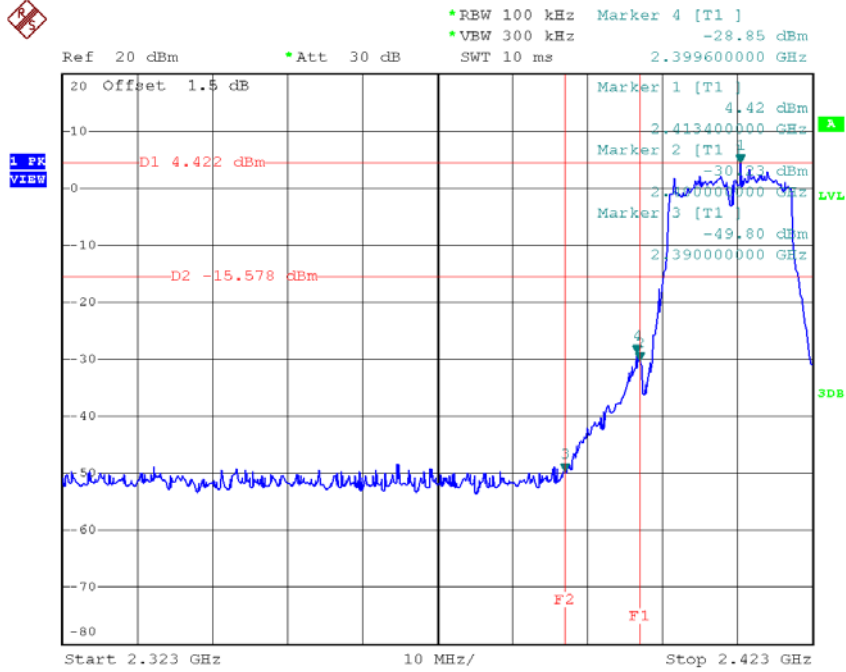




Date: 10.JAN.2017 08:52:13

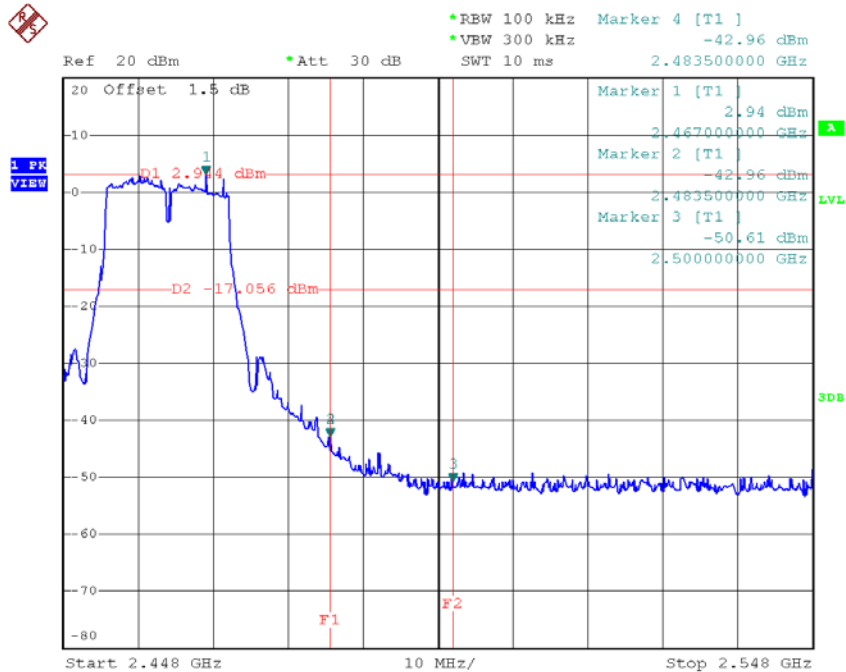
Test Mode : TX G Mode

**TX G mode CH01**



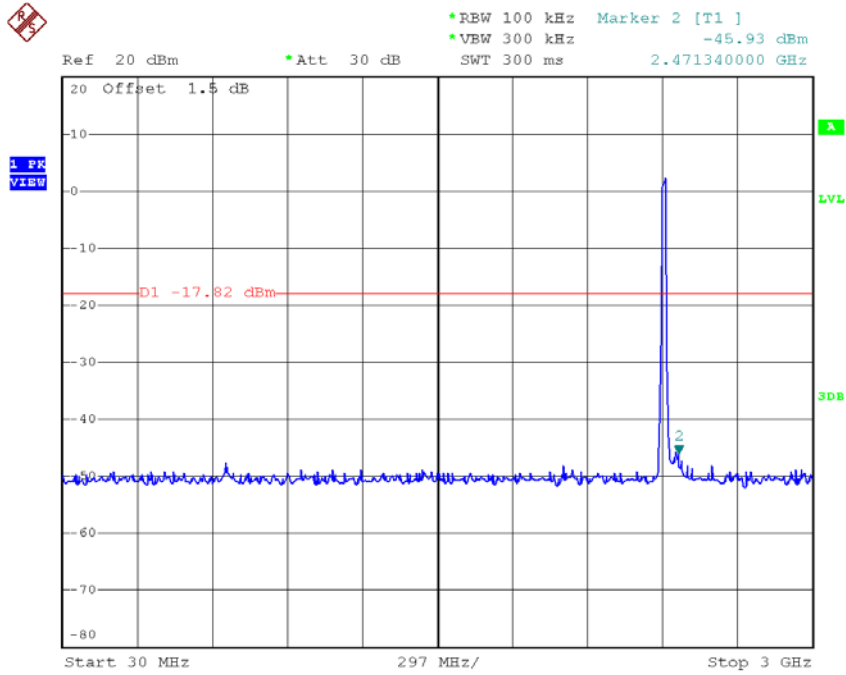
Date: 10.JAN.2017 08:53:55

**TX G mode CH11**

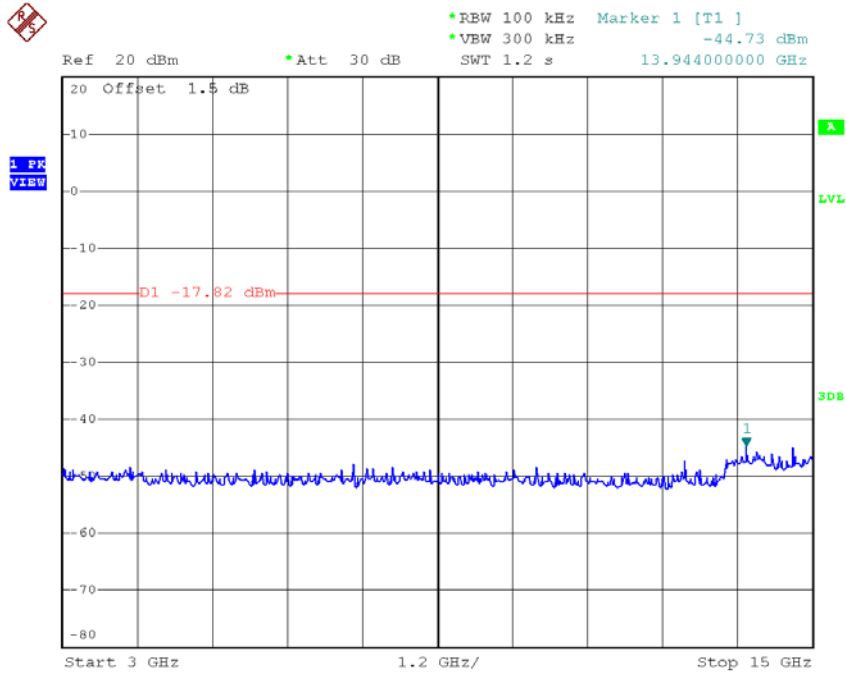


Date: 10.JAN.2017 08:57:13

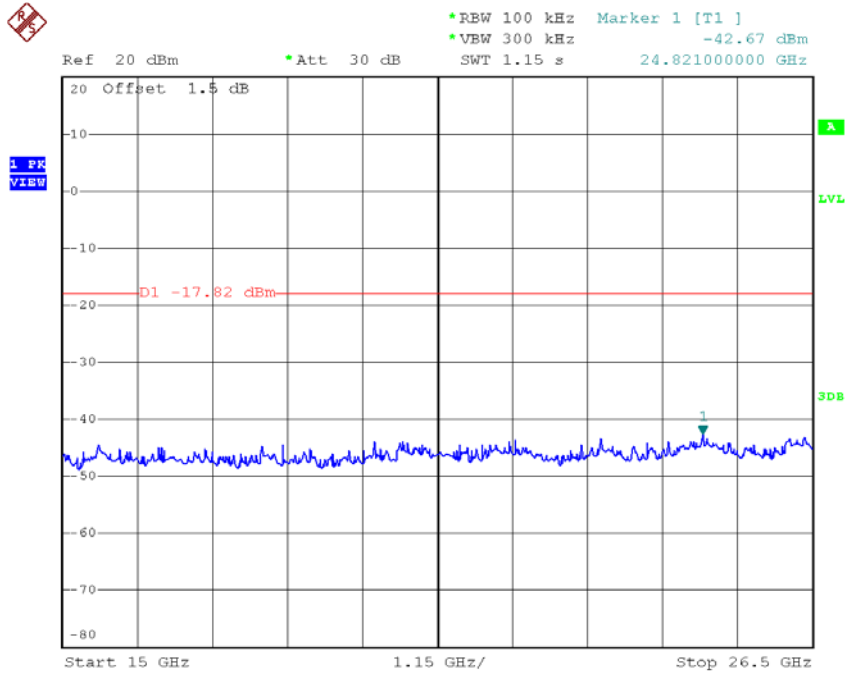
**TX G mode CH01 (10 Harmonic of the frequency)**



Date: 10.JAN.2017 08:53:30

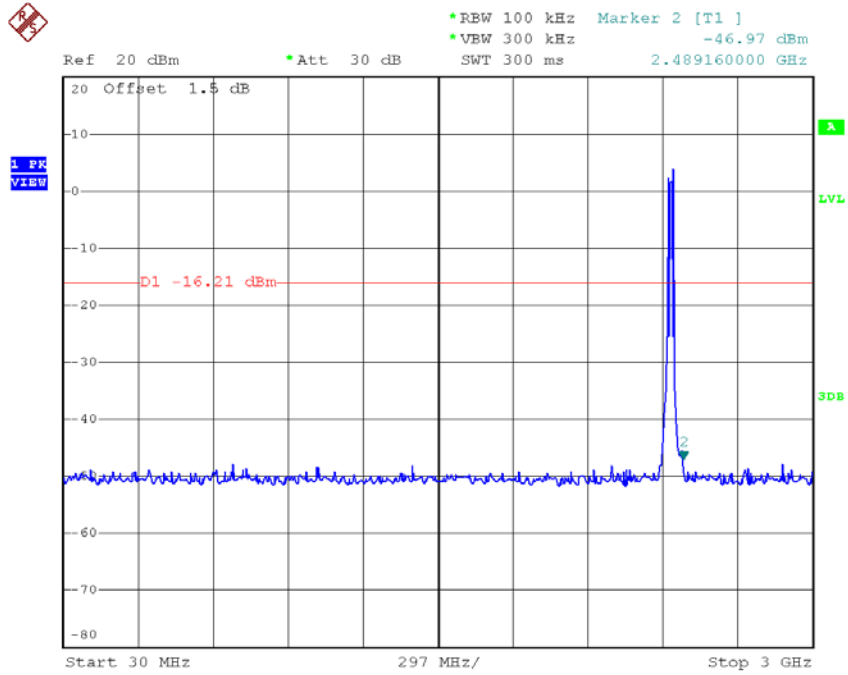


Date: 10.JAN.2017 08:53:39

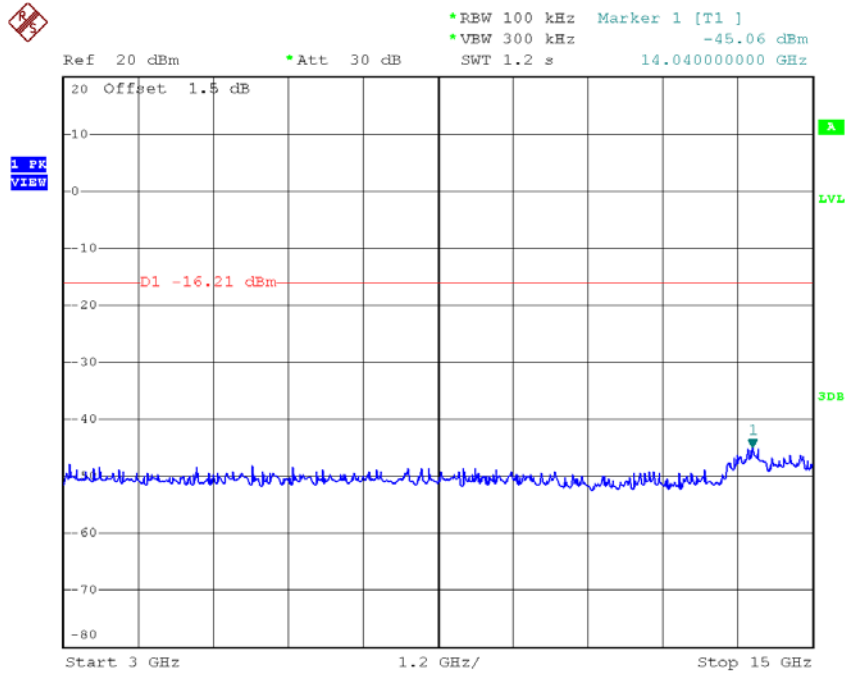


Date: 10.JAN.2017 08:53:47

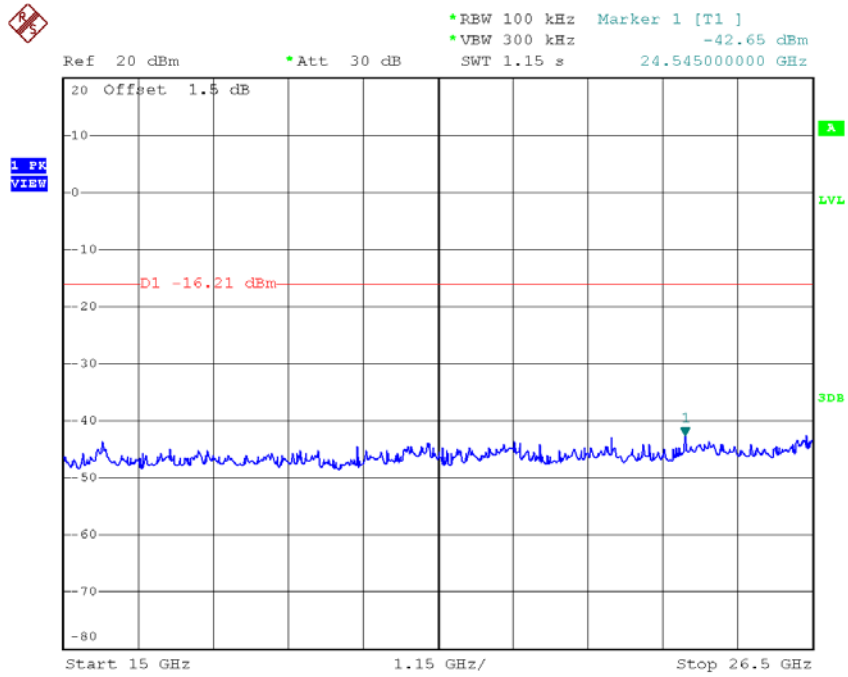
**TX G mode CH06 (10 Harmonic of the frequency)**



Date: 10.JAN.2017 08:55:16

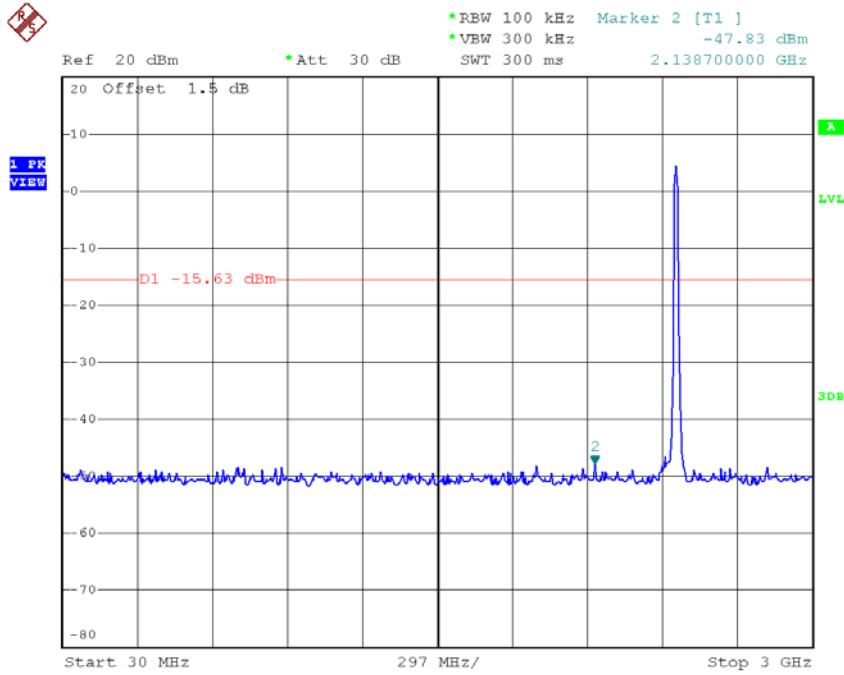


Date: 10.JAN.2017 08:55:24

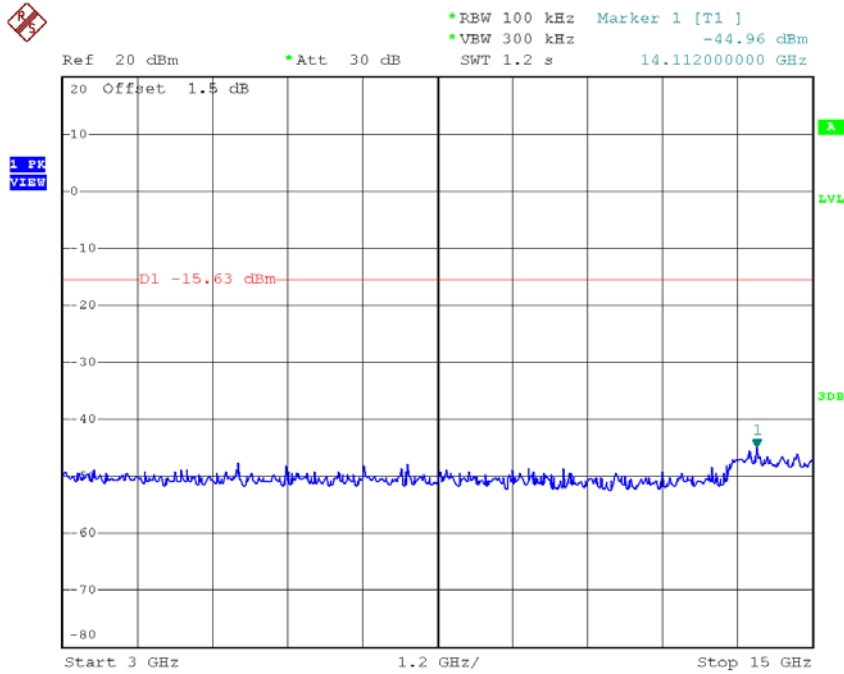


Date: 10.JAN.2017 08:55:33

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



Date: 10.JAN.2017 08:56:48

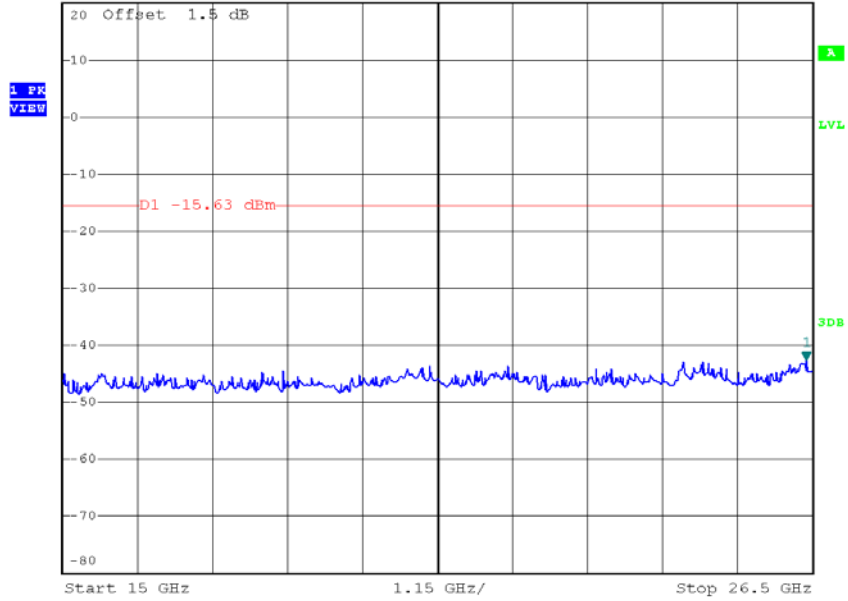


Date: 10.JAN.2017 08:56:57



\*REW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -42.68 dBm  
SWT 1.15 s 26.408000000 GHz

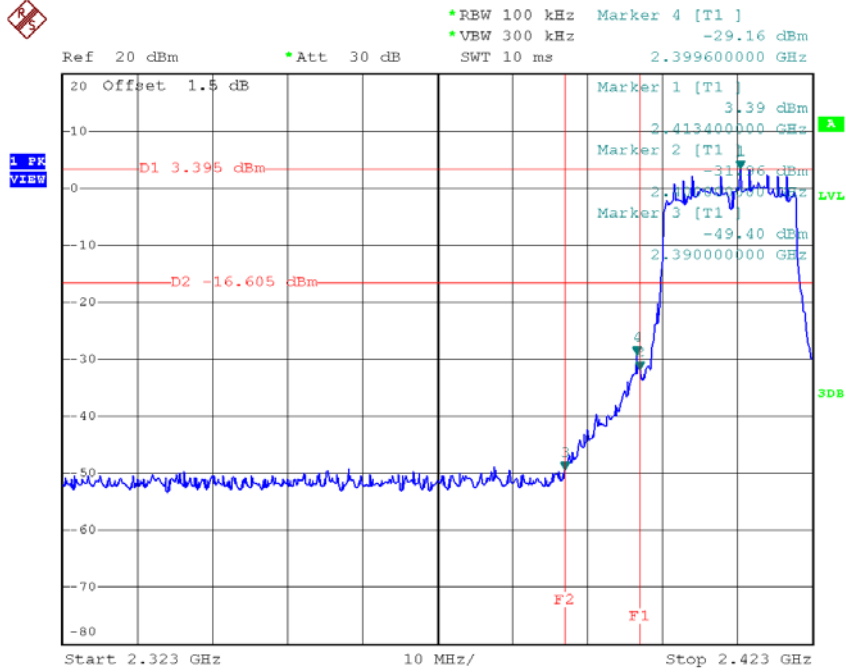
Ref 20 dBm \*Att 30 dB



Date: 10.JAN.2017 08:57:05

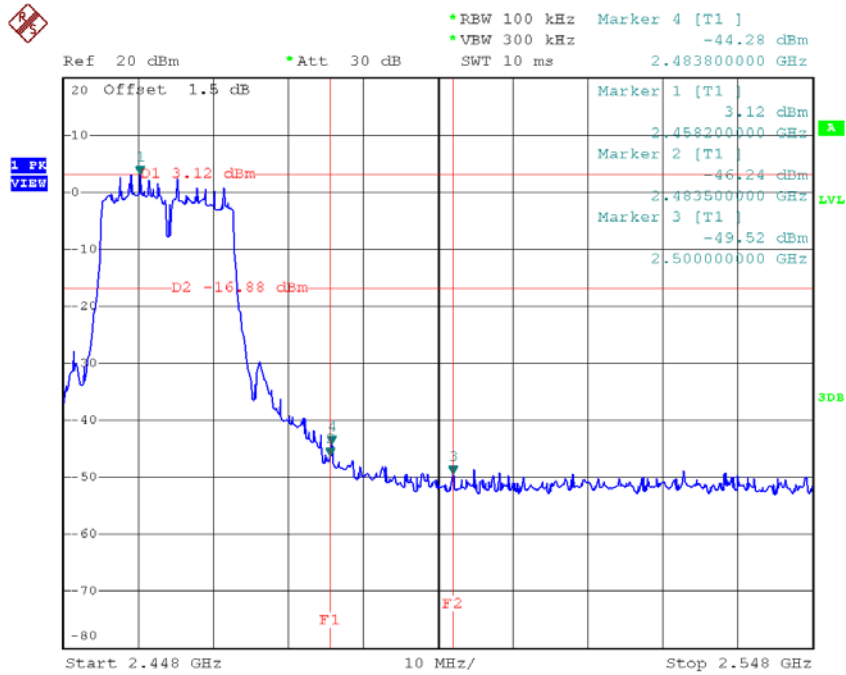
Test Mode : TX N-20M Mode\_ANT 1

**TX HT20 mode CH01**



Date: 10.JAN.2017 09:00:59

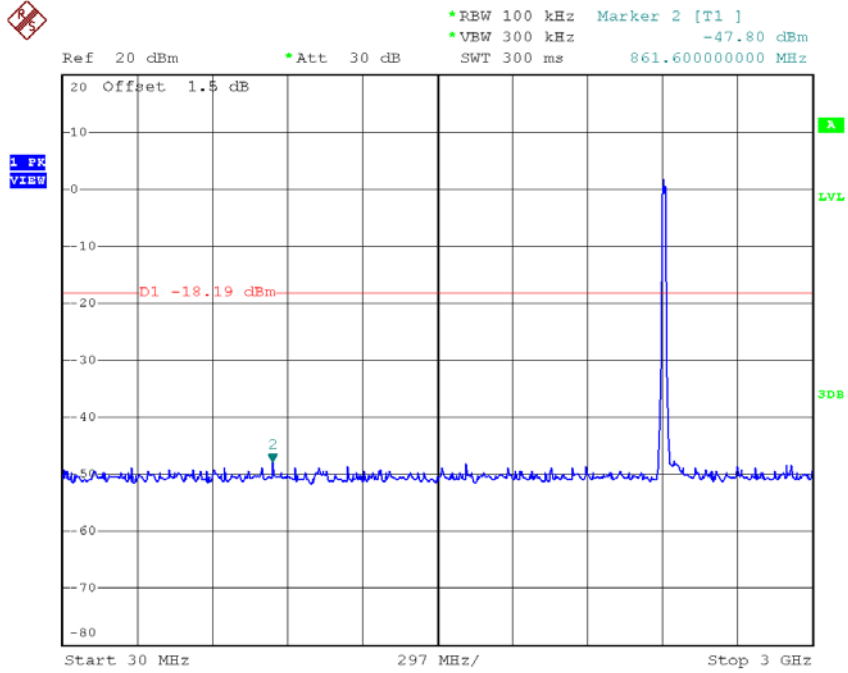
**TX HT20 mode CH11**



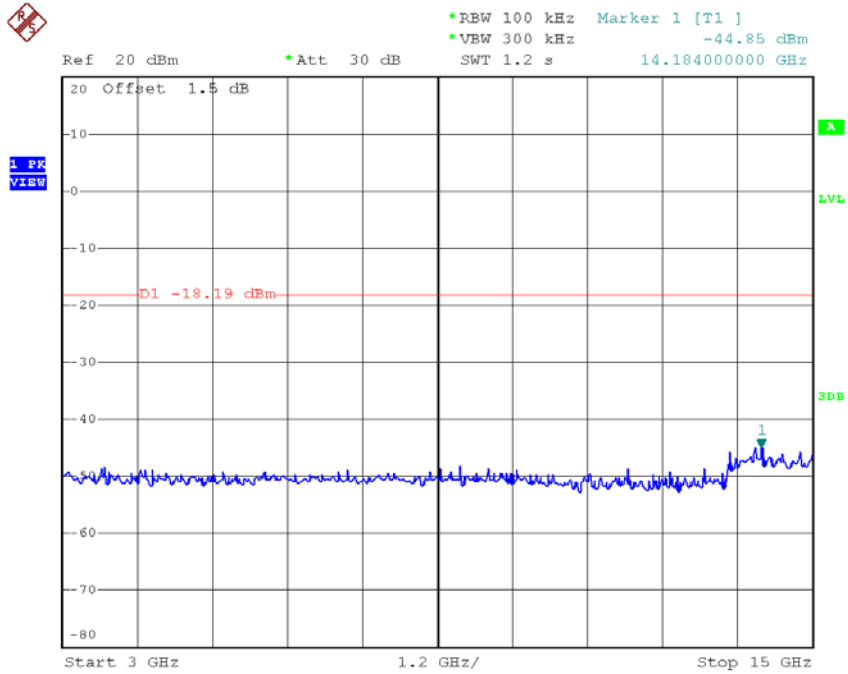
Date: 10.JAN.2017 09:03:49



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



Date: 10.JAN.2017 09:00:35



Date: 10.JAN.2017 09:00:43