

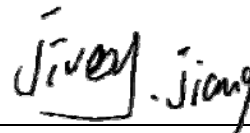
# FCC Radio Test Report

## FCC ID: 2AF5PMGMT77

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

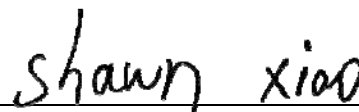
**Project No.** : 1711C015  
**Equipment** : 1) 24x8 Cable Modem plus AC1900 Router with Voice  
2) 24x8 Cable Modem plus AC1900 Router  
**Test Model** : 1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)  
**Series Model** : 2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)  
**Applicant** : MTRLC LLC  
**Address** : PO Box 121147 Boston, MA 02112-1147, United States.  
  
**Date of Receipt** : Nov. 02, 2017  
**Date of Test** : Nov. 02, 2017 ~ Dec. 20, 2017  
**Issued Date** : Dec. 21, 2017  
**Tested by** : BTL Inc.

**Testing Engineer** :



(Jivey Jiang)

**Technical Manager** :



(Shawn Xiao)

**Authorized Signatory** :



(David Mao)

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

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### **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1711C015	Original Issue.	Dec. 21, 2017

## 1. CERTIFICATION

Equipment : 1) 24x8 Cable Modem plus AC1900 Router with Voice  
2) 24x8 Cable Modem plus AC1900 Router

Brand Name : Motorola

Test Model : 1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)

Series Model : 2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)

Applicant : MTRLC LLC

Manufacturer : MTRLC LLC

Address : PO Box 121147 Boston, MA 02112-1147, United States.

Date of Test : Nov. 02, 2017 ~ Dec. 20, 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-1-1711C015) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for WLAN 2.4GHz 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	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS	

**NOTE:**

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

## 2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

### A. Conducted Measurement:

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

### B. Radiated Measurement:

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

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



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	1) 24x8 Cable Modem plus AC1900 Router with Voice 2) 24x8 Cable Modem plus AC1900 Router	
Brand Name	Motorola	
Test Model	1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)	
Series Model	2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)	
Model Difference	MG7700 has the same PCB design as MT7711, but deletes the FXS phone function and battery, and uses different enclosure and power supply.	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 26.78dBm 802.11g: 29.55dBm 802.11n(20MHz): 28.18dBm 802.11n(40MHz): 28.15dBm
Power Source	DC voltage supplied from AC/DC adapter. 1# Manufacturer / Model: Shenzhen SOY Technology Co.,Ltd / SOY-1200400-3014-II (MT7711XY) 2# Manufacturer / Model: Shenzhen Gongjin Electronics Co.,Ltd / S36B52-120A250-04 (MG7700XY)	
Power Rating	1# I/P: 100-240Vac 50/60Hz 1.2A Max O/P: 12Vdc 4A(MT7711XY) 2# I/P: 100-240Vac 50/60Hz 1.0A Max O/P: 12Vdc 2.5A(MG7700XY)	

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	u.fl	3
2	N/A	N/A	PCB	u.fl	3
3	N/A	N/A	PCB	u.fl	3

**Note:**

(1) The EUT supports the antenna with TX and RX diversity functions.

For IEEE 802.11b/g mode (1TX/1RX):

Ant. 1, Ant. 2 and Ant. 3 support transmit and receive functions, but only one of them will be used at one time.

The Ant. 1 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11n mode (3TX/3RX):

Ant. 1, Ant. 2 and Ant. 3 can be used as transmitting/receiving antenna.

Ant. 1, Ant. 2 and Ant. 3 could transmit/receive simultaneously.

(2) Antenna Gain=3 dBi. This EUT supports MIMO 3X3, any transmit signals are correlated with each other, so Directional gain =  $G_{ANT} + 10\log(N)$  dBi, that is

Directional gain =  $3 + 10\log(3)$  dBi = 7.77. The power density limit is  $8 - 7.77 + 6 = 6.23$ .

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

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:**

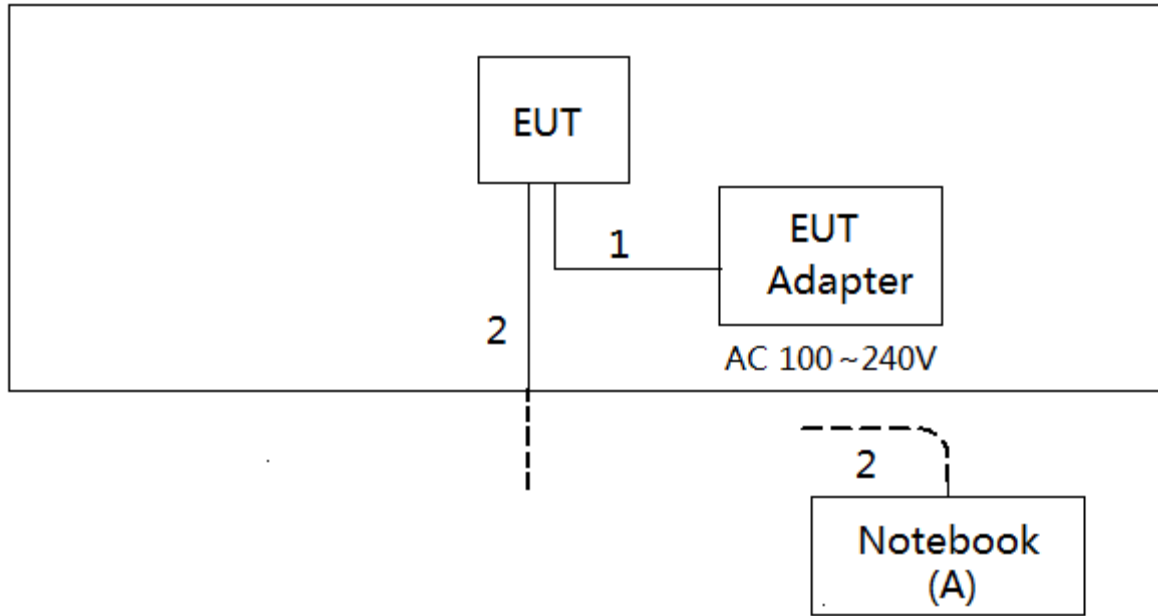
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (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	MTool_2.0.1.1		
Frequency (MHz)	2412	2437	2462
802.11b	82	82	82
802.11g	75	75	69
802.11n (20MHz)	51	52	53
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	46	47	48

**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	HP	HP NB 331	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	DC Cable
2	NO	NO	10m	RJ45

## 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

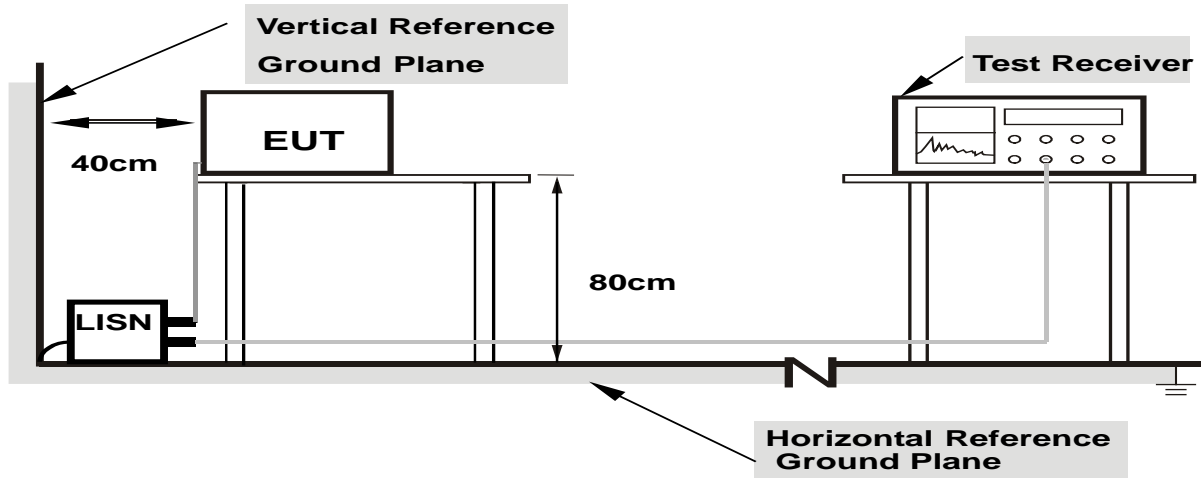
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Appendix A.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

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

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

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

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

**Notes:**

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

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

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

#### 4.2.2 TEST PROCEDURE

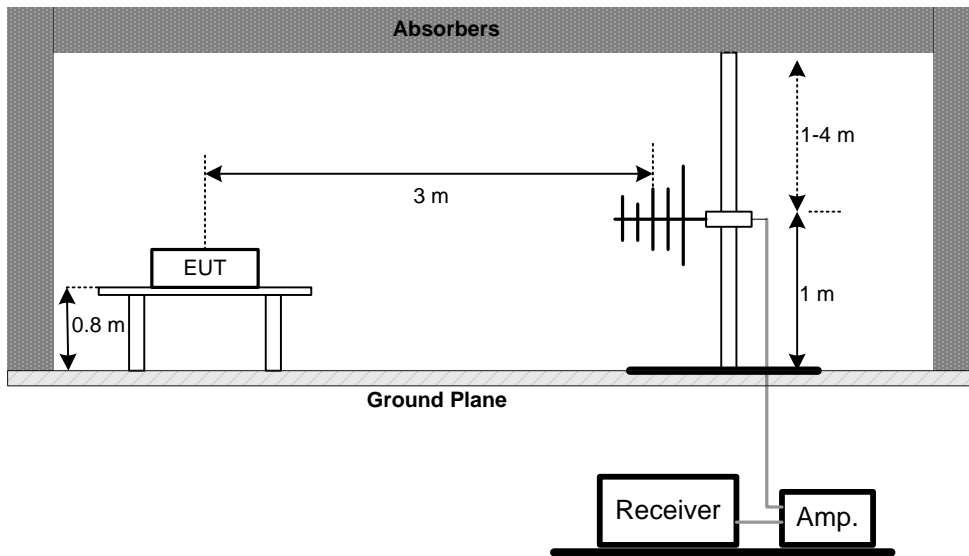
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

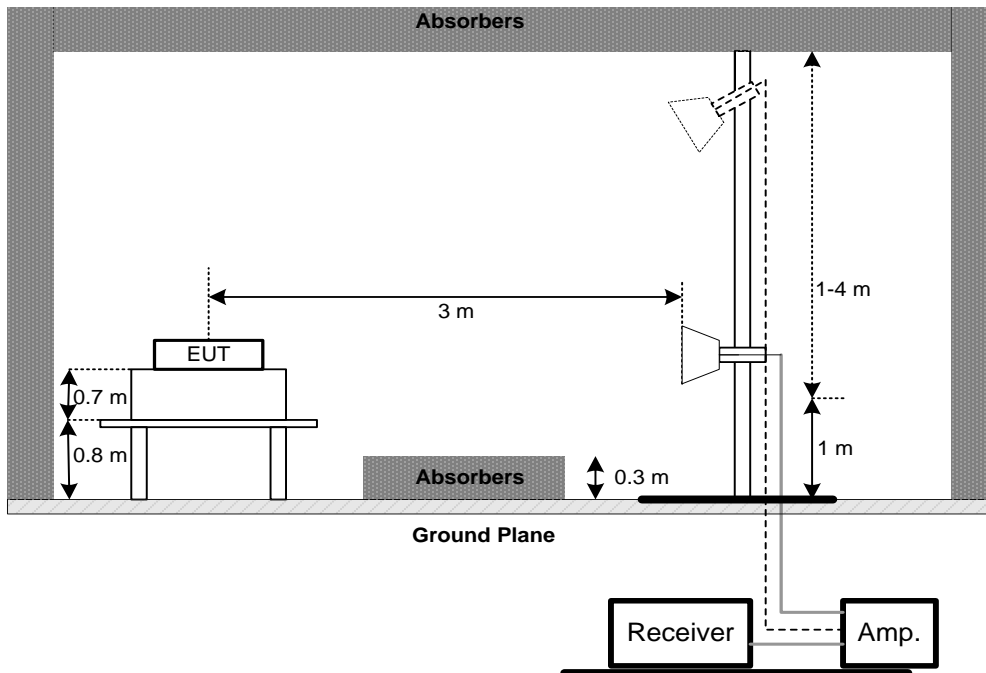
No deviation

**4.2.4 TEST SETUP**

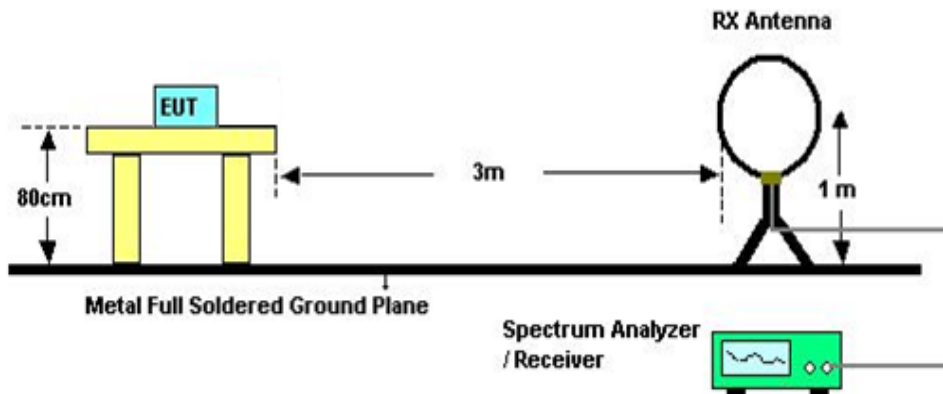
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 Appendix B

Remark:

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

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

Please refer to the Appendix C.

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

Please refer to the Appendix D.

Remark:

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

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

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

#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Appendix E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

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

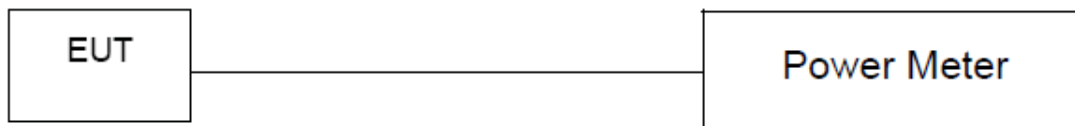
#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 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 Appendix F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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

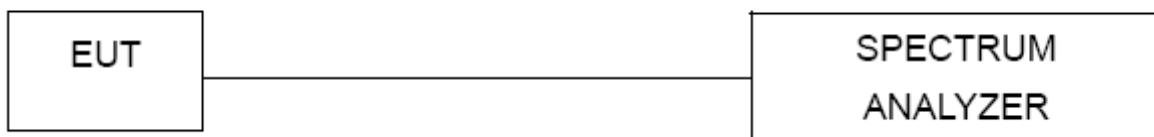
#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

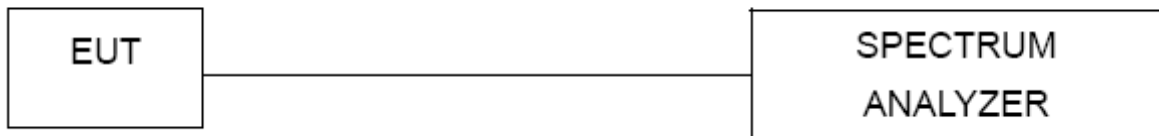
#### 8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as 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 Appendix 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. 26, 2018
2	LISN	R&S	ENV216	101447	Mar. 26, 2018
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 09, 2018
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 26, 2018
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

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

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

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

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

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

## 10. EUT TEST PHOTO

Model (MT7711XY) with adapter (SOY-1200400-3014-II)  
Conducted Measurement Photos

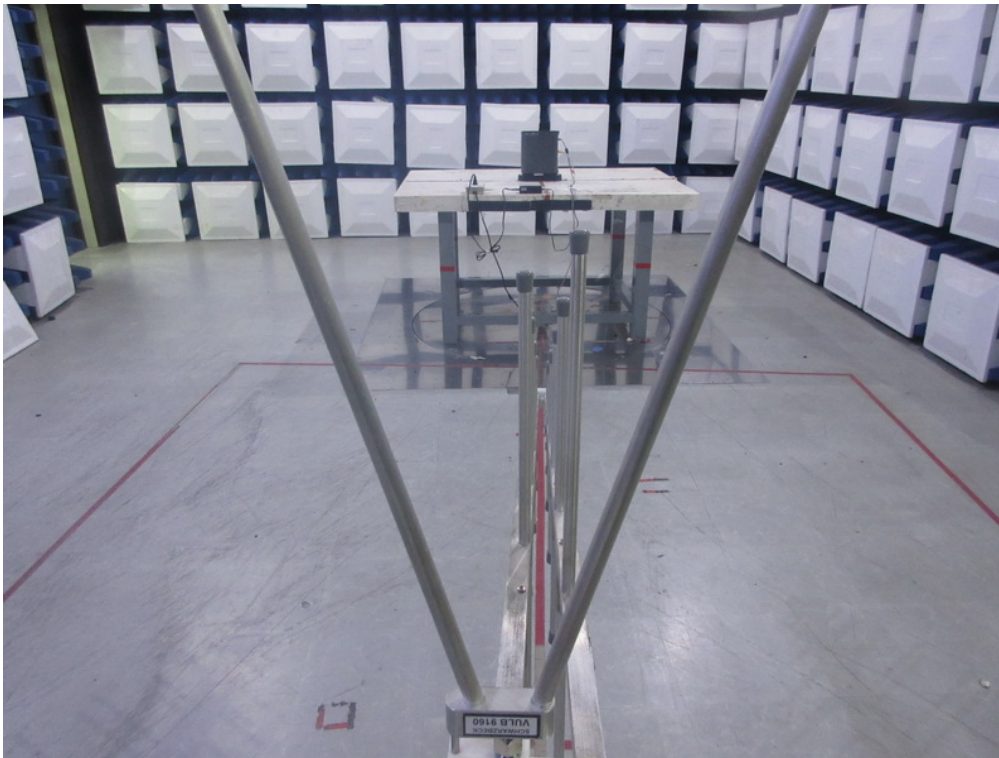
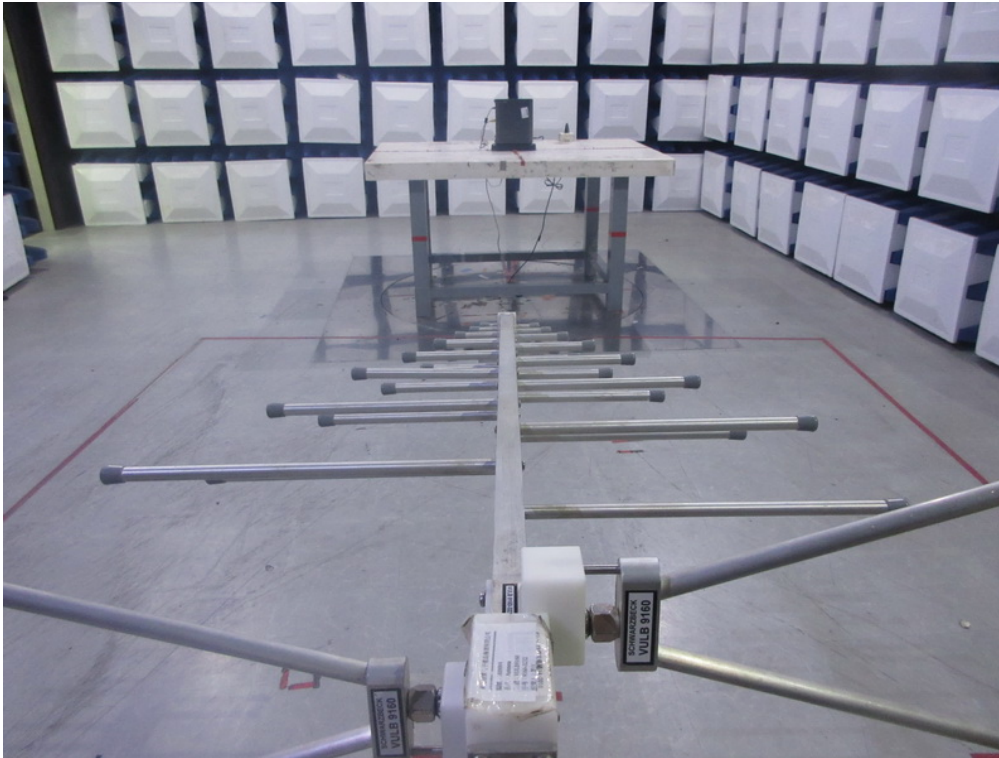


**Radiated Measurement Photos  
9KHz to 30MHz**

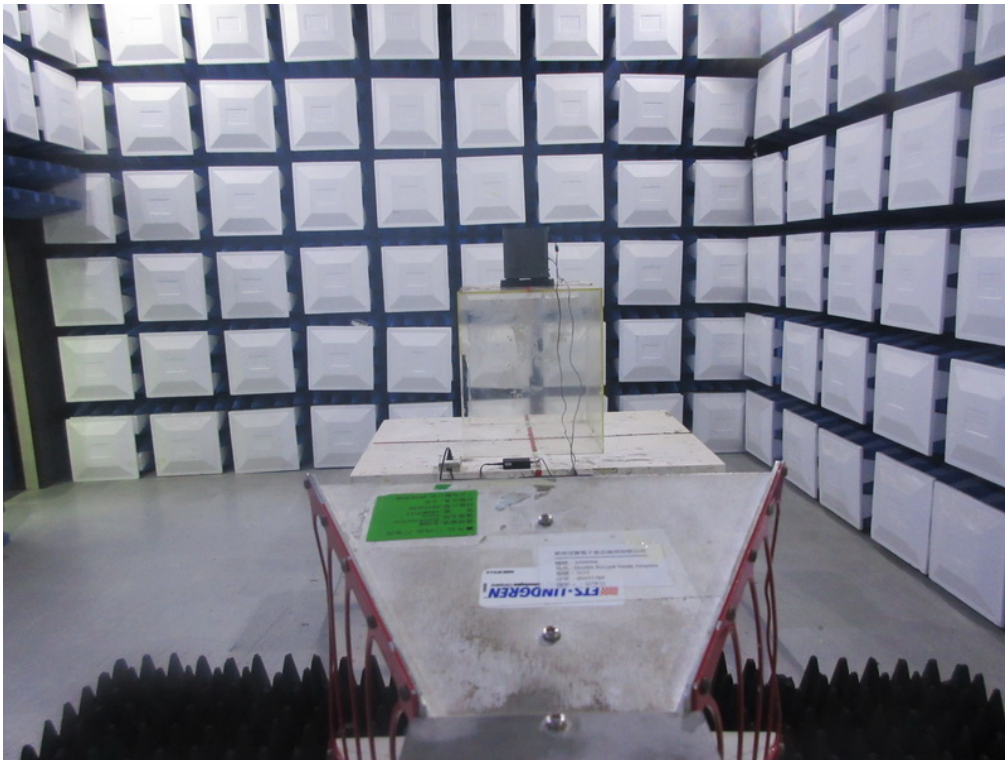
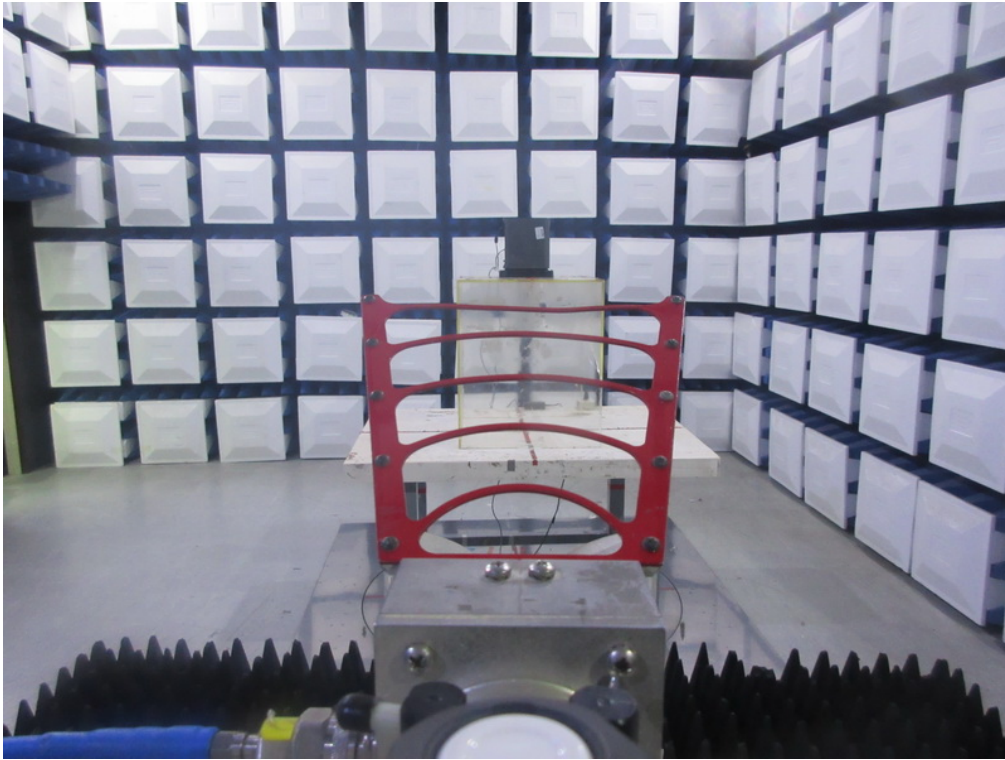




**Radiated Measurement Photos  
30MHz to 1000MHz**



**Radiated Measurement Photos  
Above 1000MHz**





**Model (MG7700XY) with adapter (S36B52-120A250-04)  
Conducted Measurement Photos**

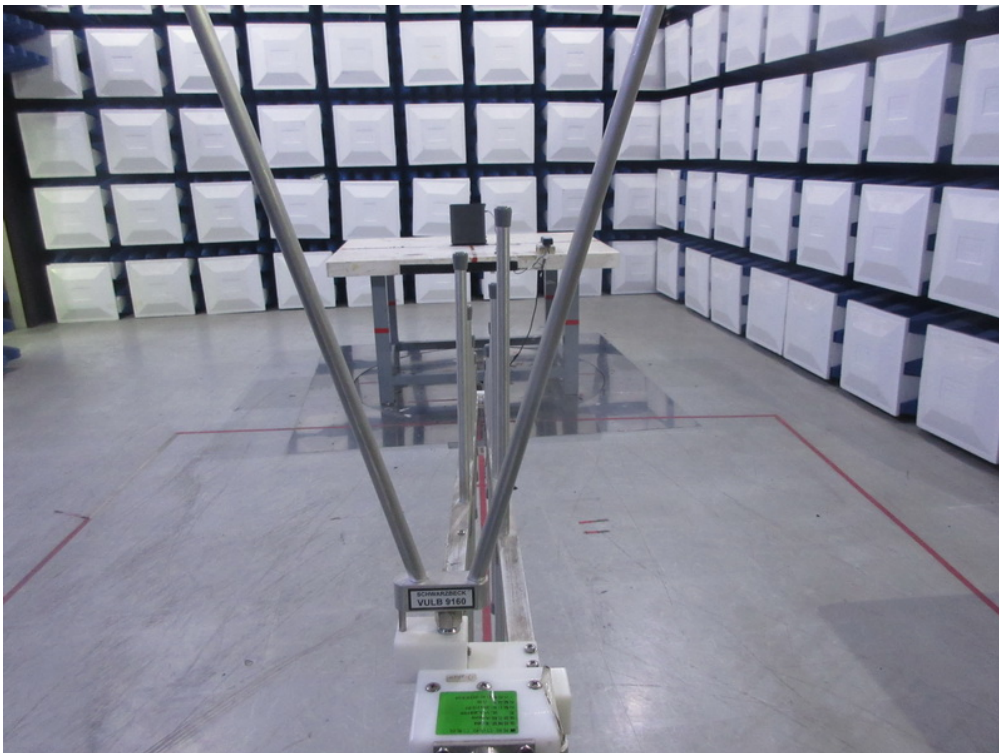
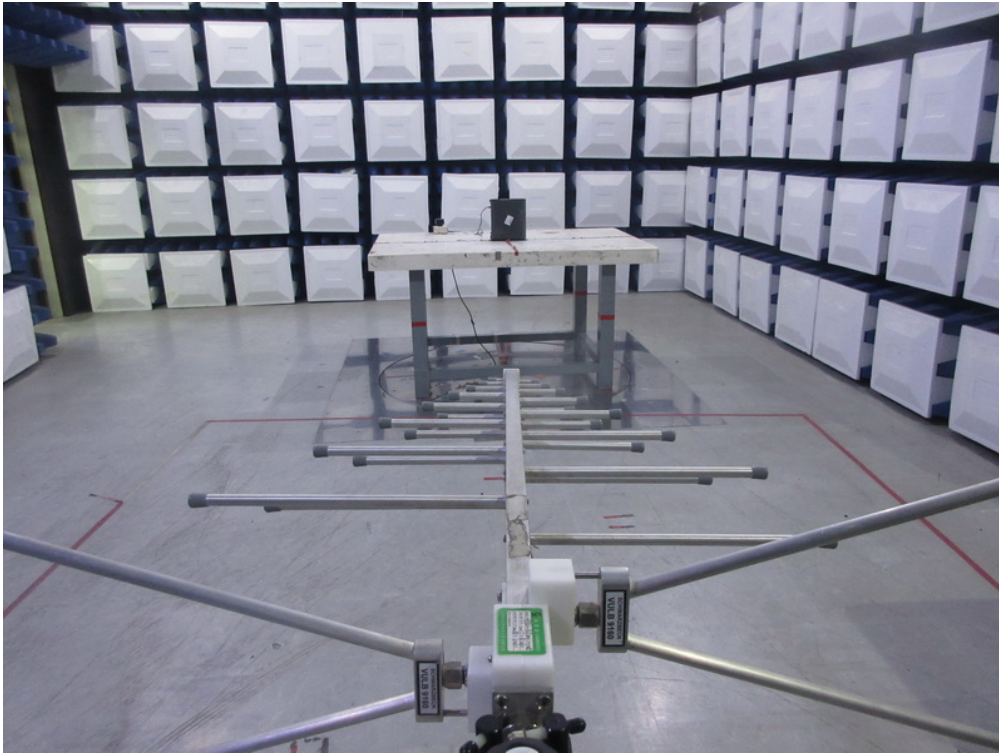


**Radiated Measurement Photos  
9KHz to 30MHz**

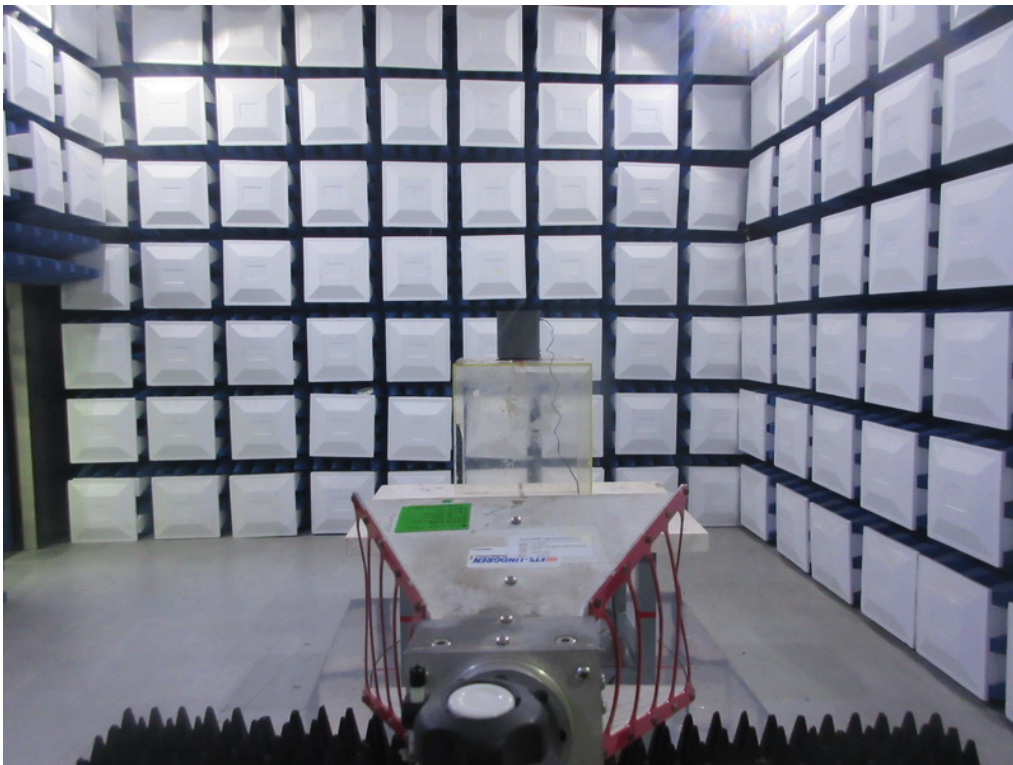
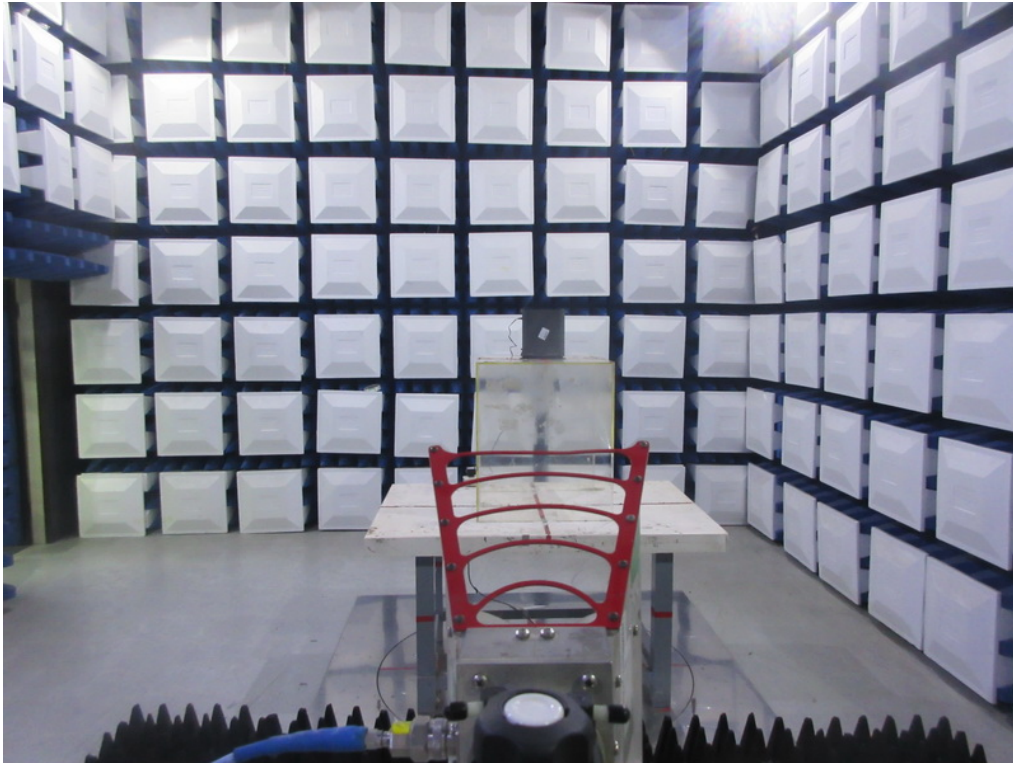




**Radiated Measurement Photos  
30MHz to 1000MHz**



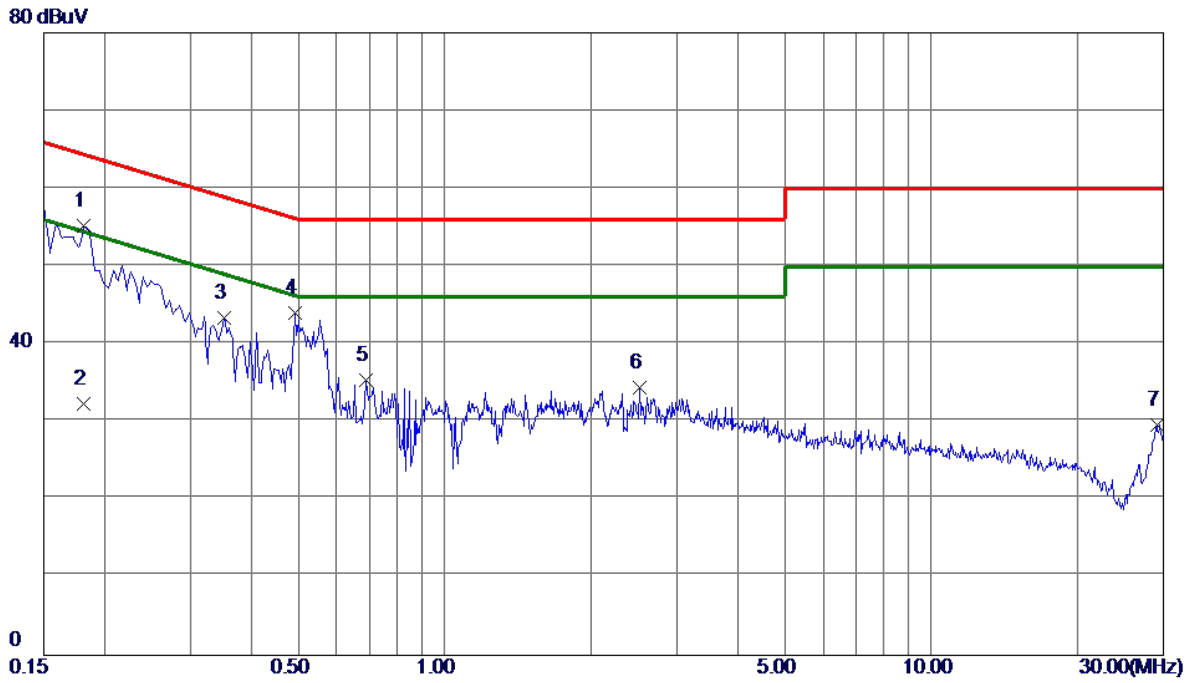
**Radiated Measurement Photos  
Above 1000MHz**



## APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link (Adapter: SOY-1200400-3014-II)

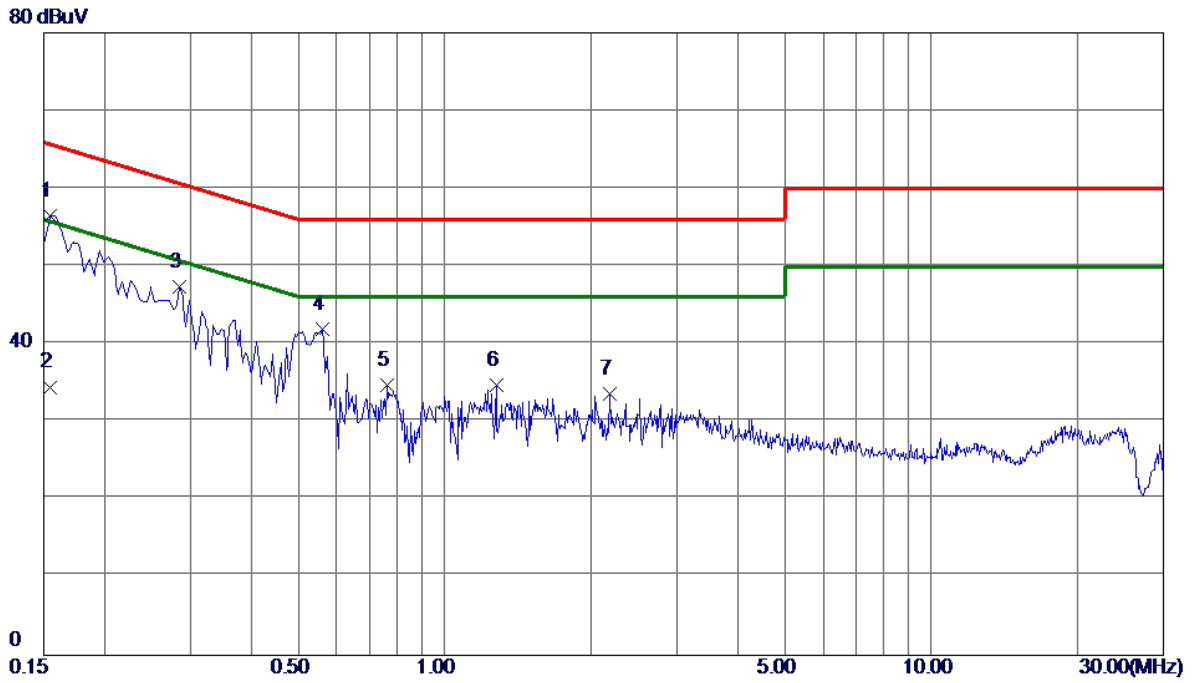
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1815	45.48	9.77	55.25	64.42	-9.17	Peak	
2	0.1815	22.50	9.77	32.27	54.42	-22.15	AVG	
3	0.3525	33.62	9.79	43.41	58.90	-15.49	Peak	
4	0.4920	34.14	9.80	43.94	56.13	-12.19	Peak	
5	0.6900	25.57	9.82	35.39	56.00	-20.61	Peak	
6	2.5170	24.39	9.97	34.36	56.00	-21.64	Peak	
7	29.0580	18.69	10.90	29.59	60.00	-30.41	Peak	

Test Mode : Normal Link (Adapter: SOY-1200400-3014-II)

**Neutral**

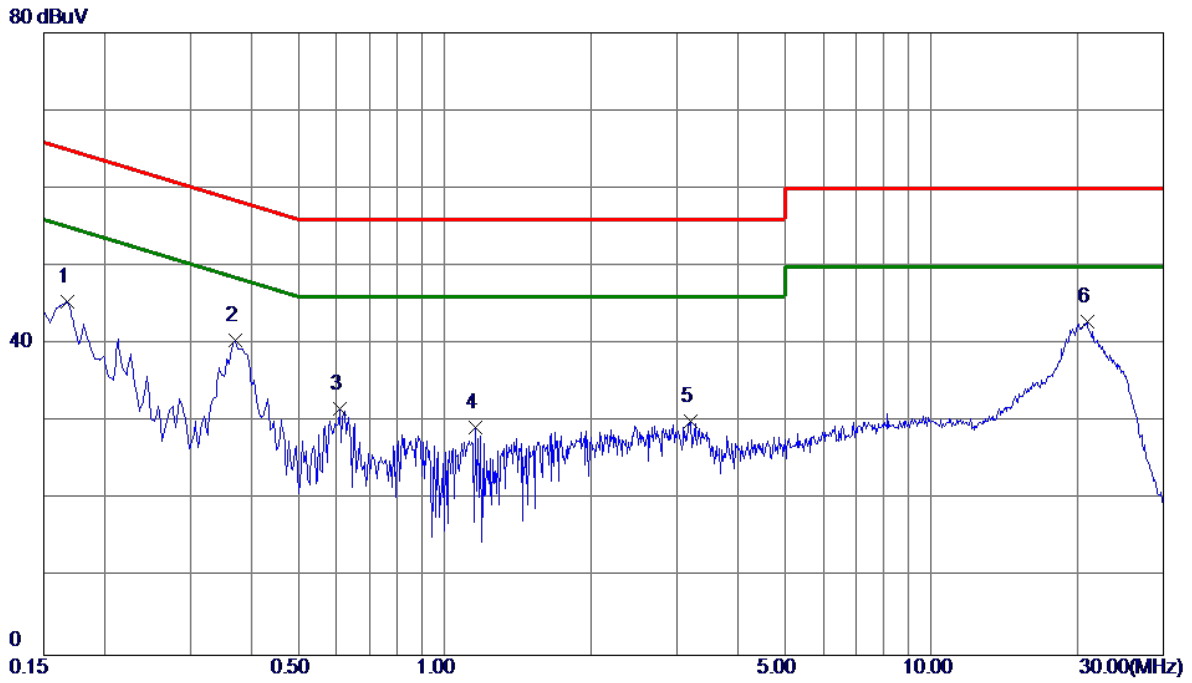


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	46.75	9.68	56.43	65.75	-9.32	Peak	
2	0.1545	24.80	9.68	34.48	55.75	-21.27	AVG	
3	0.2850	37.63	9.68	47.31	60.67	-13.36	Peak	
4	0.5595	32.15	9.71	41.86	56.00	-14.14	Peak	
5	0.7620	25.05	9.72	34.77	56.00	-21.23	Peak	
6	1.2750	24.98	9.76	34.74	56.00	-21.26	Peak	
7	2.1840	23.69	9.86	33.55	56.00	-22.45	Peak	



Test Mode : Normal Link (Adapter: S36B52-120A250-04)

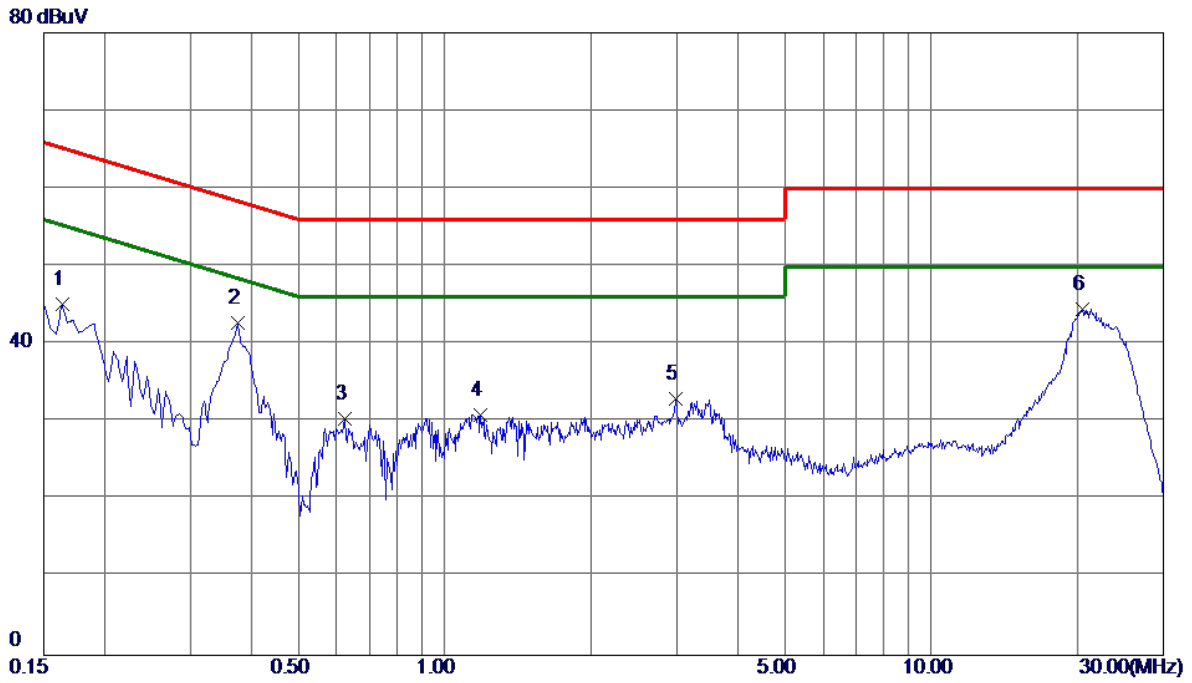
**Line**



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1680	35.70	9.78	45.48	65.06	-19.58	Peak	
2	0.3704	30.71	9.79	40.50	58.49	-17.99	Peak	
3	0.6090	21.93	9.81	31.74	56.00	-24.26	Peak	
4	1.1580	19.35	9.87	29.22	56.00	-26.78	Peak	
5	3.2100	20.11	10.00	30.11	56.00	-25.89	Peak	
6 *	20.8950	32.13	10.68	42.81	60.00	-17.19	Peak	

Test Mode : Normal Link (Adapter: S36B52-120A250-04)

### Neutral



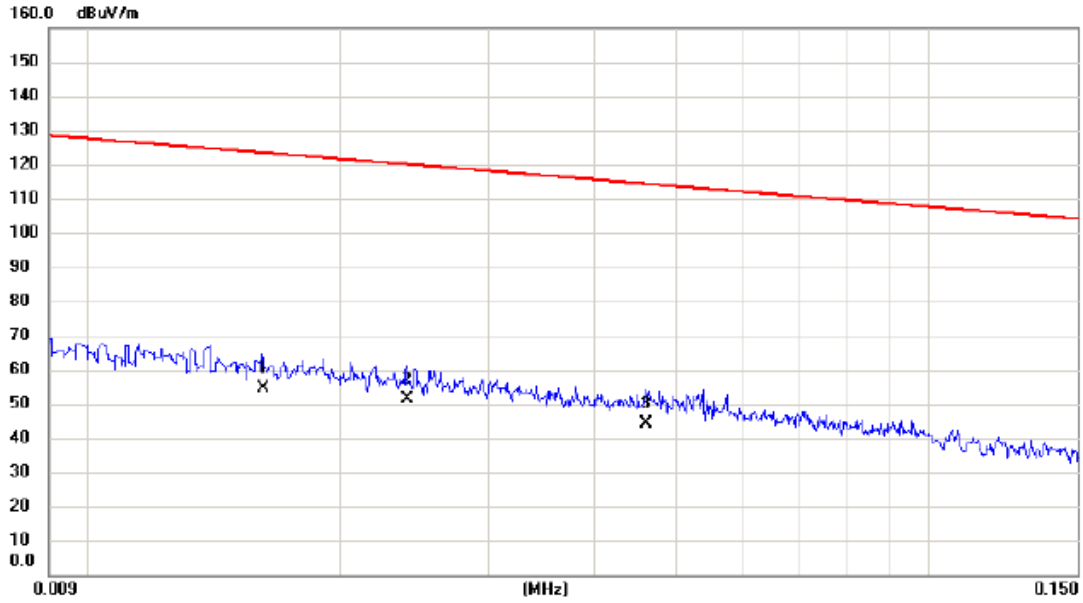
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	35.46	9.68	45.14	65.28	-20.14	Peak	
2	0.3750	32.97	9.69	42.66	58.39	-15.73	Peak	
3	0.6225	20.66	9.71	30.37	56.00	-25.63	Peak	
4	1.1849	21.16	9.75	30.91	56.00	-25.09	Peak	
5	2.9805	23.05	9.90	32.95	56.00	-23.05	Peak	
6 *	20.4675	33.76	10.77	44.53	60.00	-15.47	Peak	

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



Test Mode: TX MODE (Adapter: SOY-1200400-3014-II)

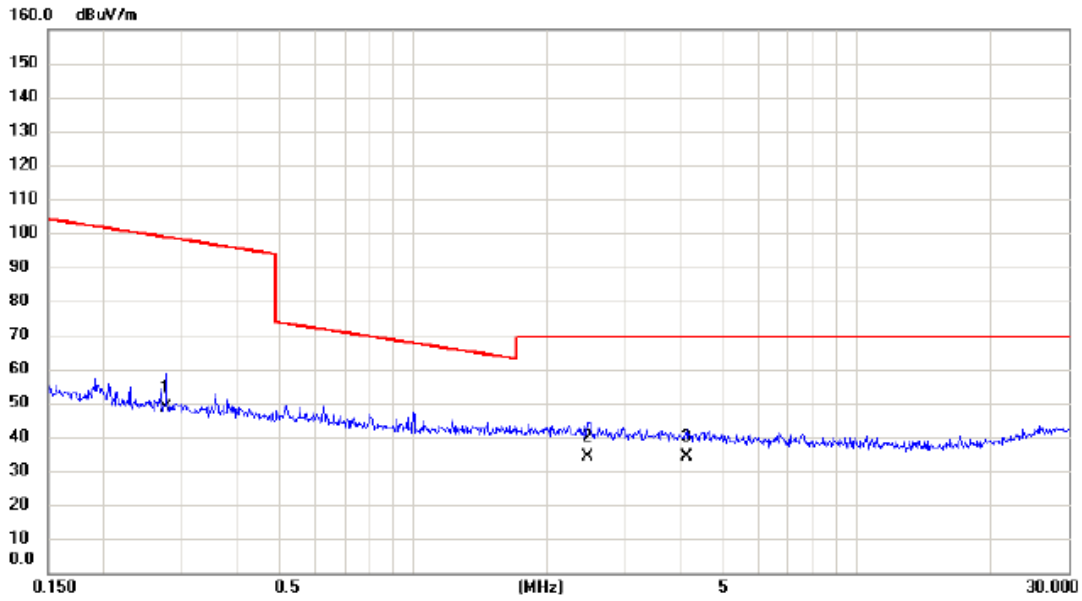
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0162	34.48	20.11	54.59	123.41	-68.82	AVG	
2	*	0.0240	32.07	19.50	51.57	120.00	-68.43	AVG	
3		0.0461	25.44	18.84	44.28	114.33	-70.05	AVG	

Test Mode: TX MODE (Adapter: SOY-1200400-3014-II)

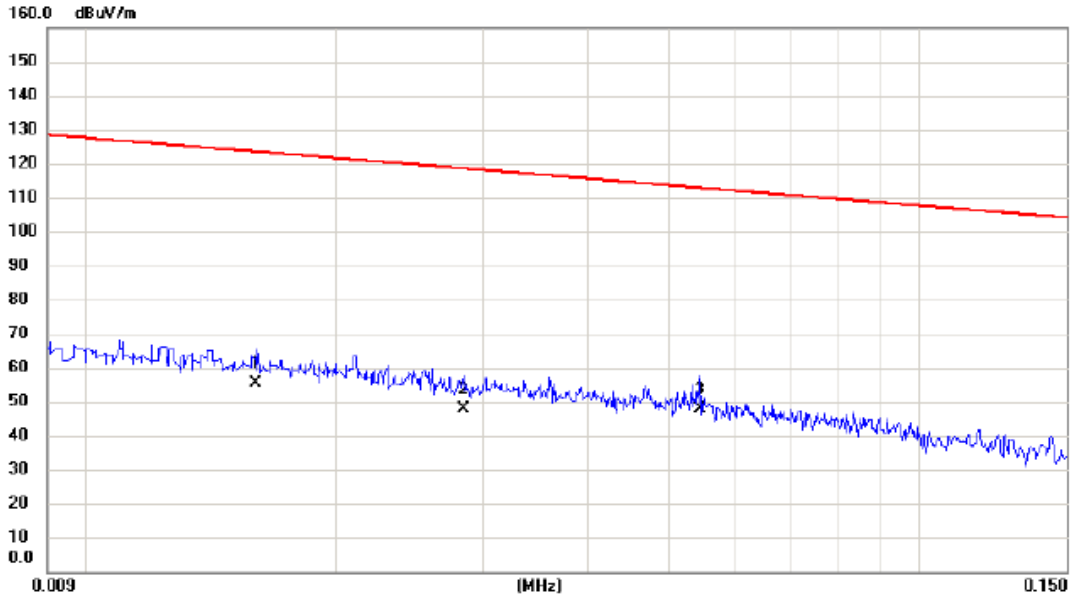
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2760	31.91	16.64	48.55	98.79	-50.24	AVG	
2	*	2.4736	18.78	15.38	34.16	69.54	-35.38	QP	
3		4.1356	19.28	14.87	34.15	69.54	-35.39	QP	

Test Mode: TX MODE (Adapter: SOY-1200400-3014-II)

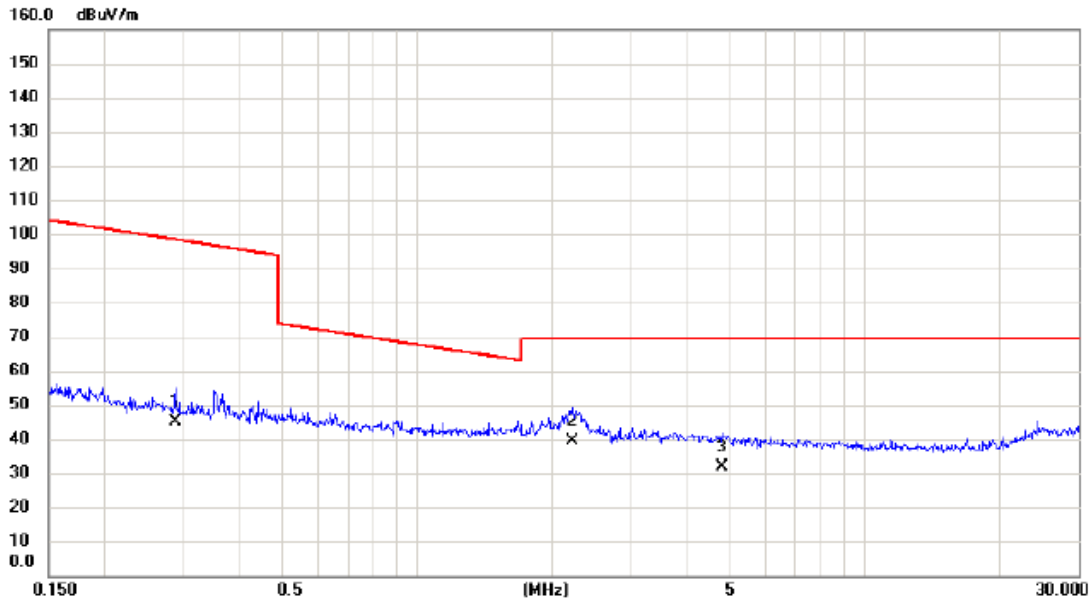
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0160	35.23	20.14	55.37	123.52	-68.15	AVG	
2		0.0284	28.27	19.37	47.64	118.54	-70.90	AVG	
3	*	0.0546	28.98	18.64	47.62	112.86	-65.24	AVG	

Test Mode: TX MODE (Adapter: SOY-1200400-3014-II)

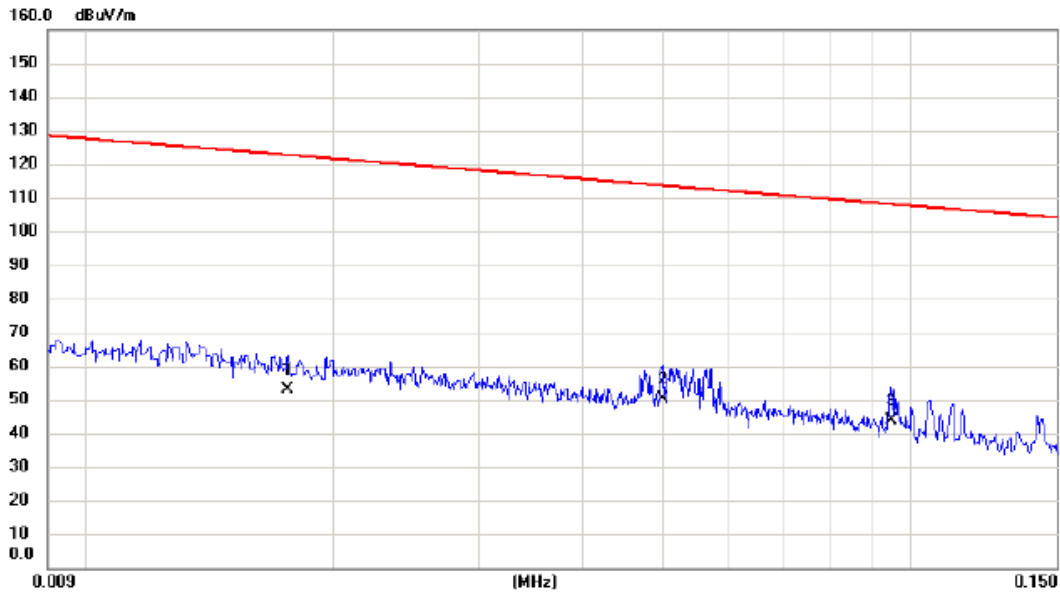
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2878	28.48	16.63	45.11	98.42	-53.31	AVG	
2	*	2.2250	23.91	15.44	39.35	69.54	-30.19	QP	
3		4.7970	17.19	14.49	31.68	69.54	-37.86	QP	

Test Mode: TX MODE (Adapter: S36B52-120A250-04)

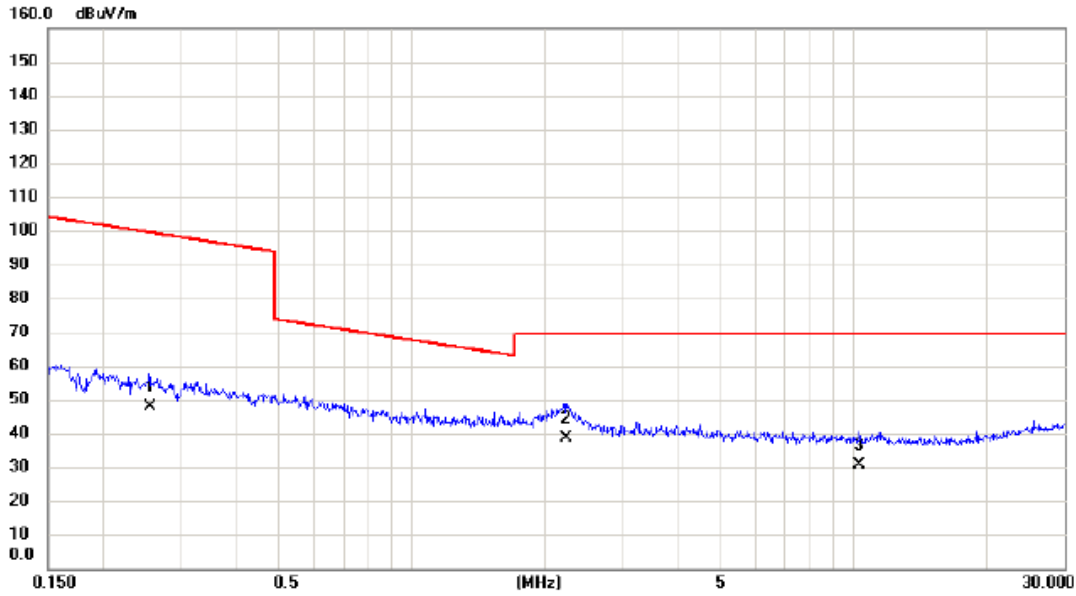
**Ant 0°**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0176	33.18	19.93	53.11	122.69	-69.58	AVG	
2	*	0.0500	31.67	18.72	50.39	113.63	-63.24	AVG	
3		0.0946	25.94	17.76	43.70	108.09	-64.39	AVG	

Test Mode: TX MODE (Adapter: S36B52-120A250-04)

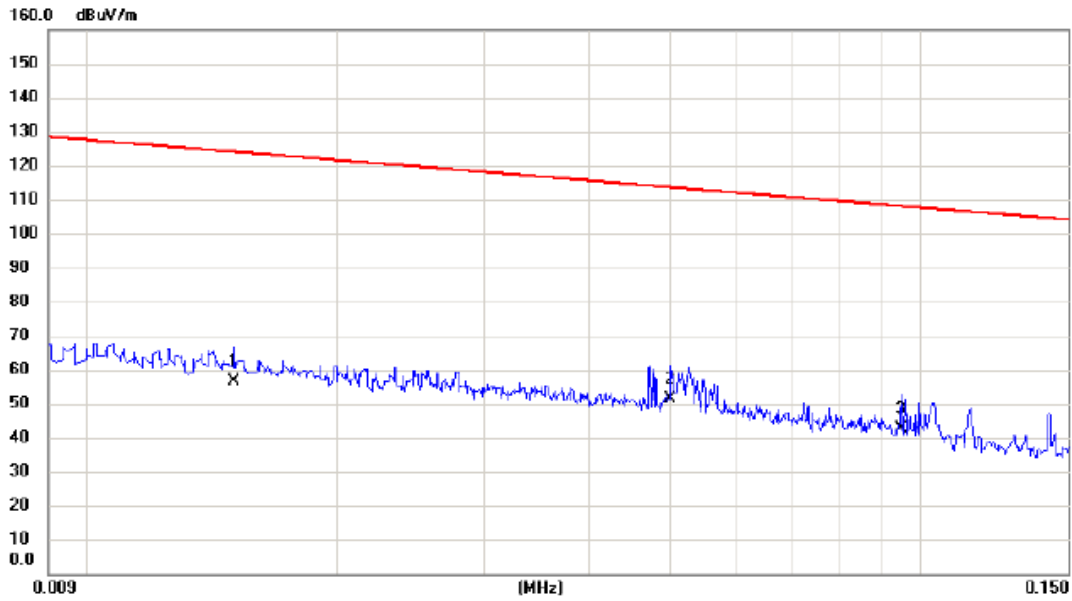
**Ant 0°**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2548	31.34	16.66	48.00	99.48	-51.48	AVG	
2	*	2.2367	23.22	15.44	38.66	69.54	-30.88	QP	
3		10.2876	16.73	13.77	30.50	69.54	-39.04	QP	

Test Mode: TX MODE (Adapter: S36B52-120A250-04)

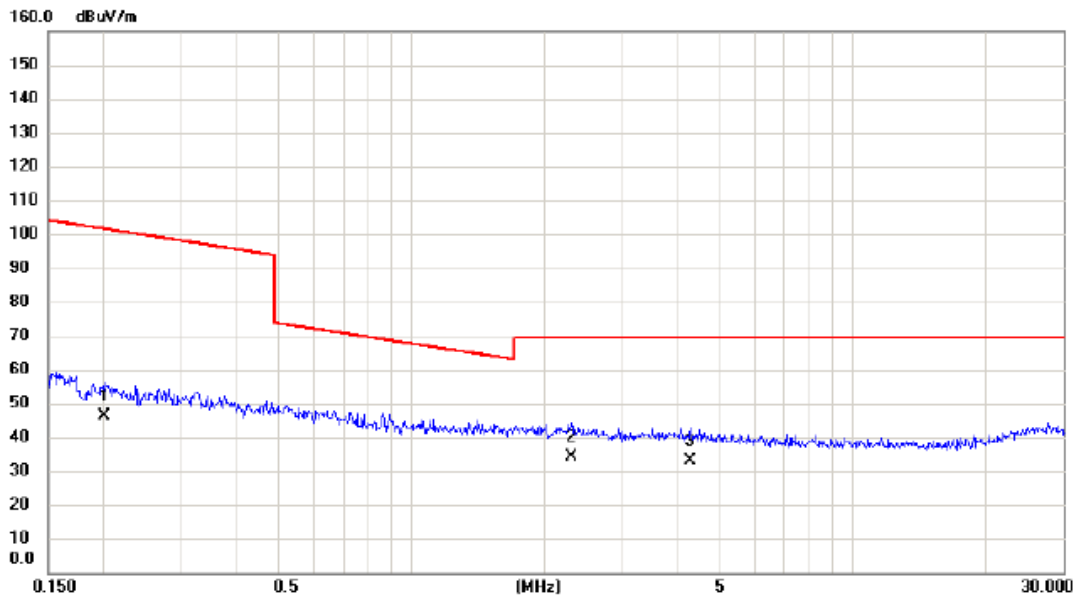
**Ant 90°**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0150	36.19	20.27	56.46	124.08	-67.62	AVG	
2	*	0.0501	32.59	18.72	51.31	113.61	-62.30	AVG	
3		0.0946	24.90	17.76	42.66	108.09	-65.43	AVG	

Test Mode: TX MODE (Adapter: S36B52-120A250-04)

**Ant 90°**



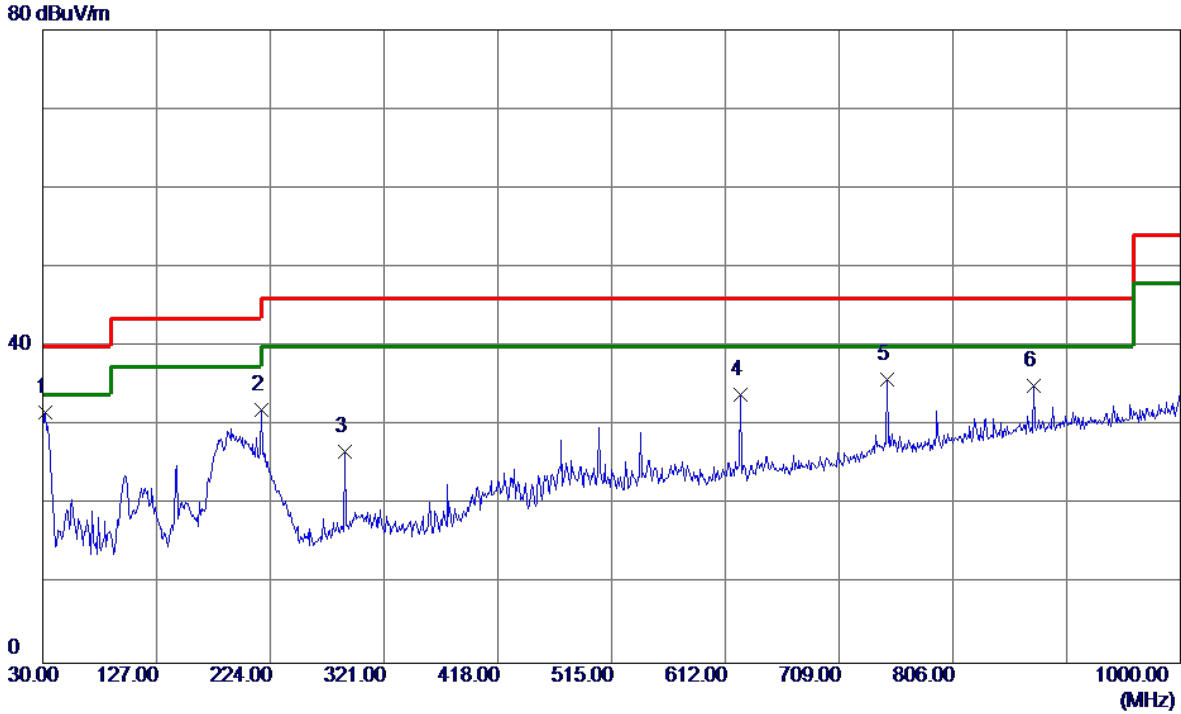
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2007	29.50	16.80	46.30	101.56	-55.26	AVG	
2	*	2.2968	18.58	15.43	34.01	69.54	-35.53	QP	
3		4.2918	18.13	14.78	32.91	69.54	-36.63	QP	



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

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200400-3014-II)

**Vertical**

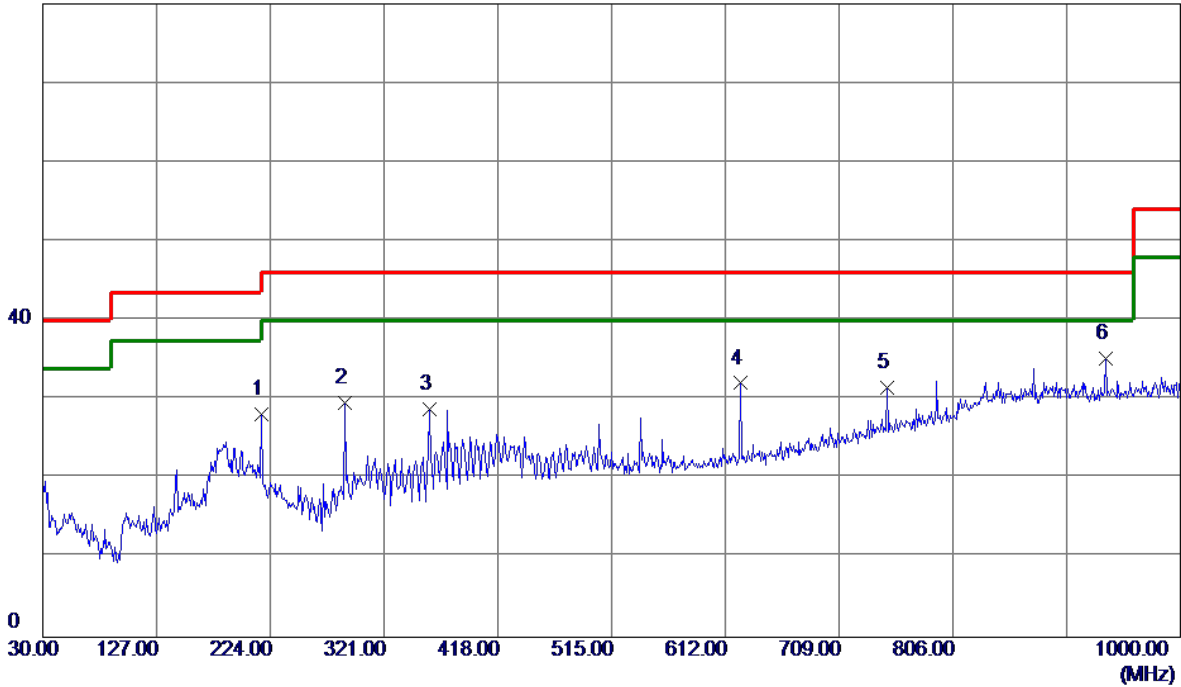


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	46.74	-15.04	31.70	40.00	-8.30	Peak	
2	216.2400	45.87	-13.93	31.94	46.00	-14.06	Peak	
3	288.0200	40.99	-14.31	26.68	46.00	-19.32	Peak	
4	624.6100	39.81	-5.95	33.86	46.00	-12.14	Peak	
5	749.7400	38.25	-2.45	35.80	46.00	-10.20	Peak	
6	874.8700	34.52	0.51	35.03	46.00	-10.97	Peak	

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200400-3014-II)

**Horizontal**

80 dBuV/m

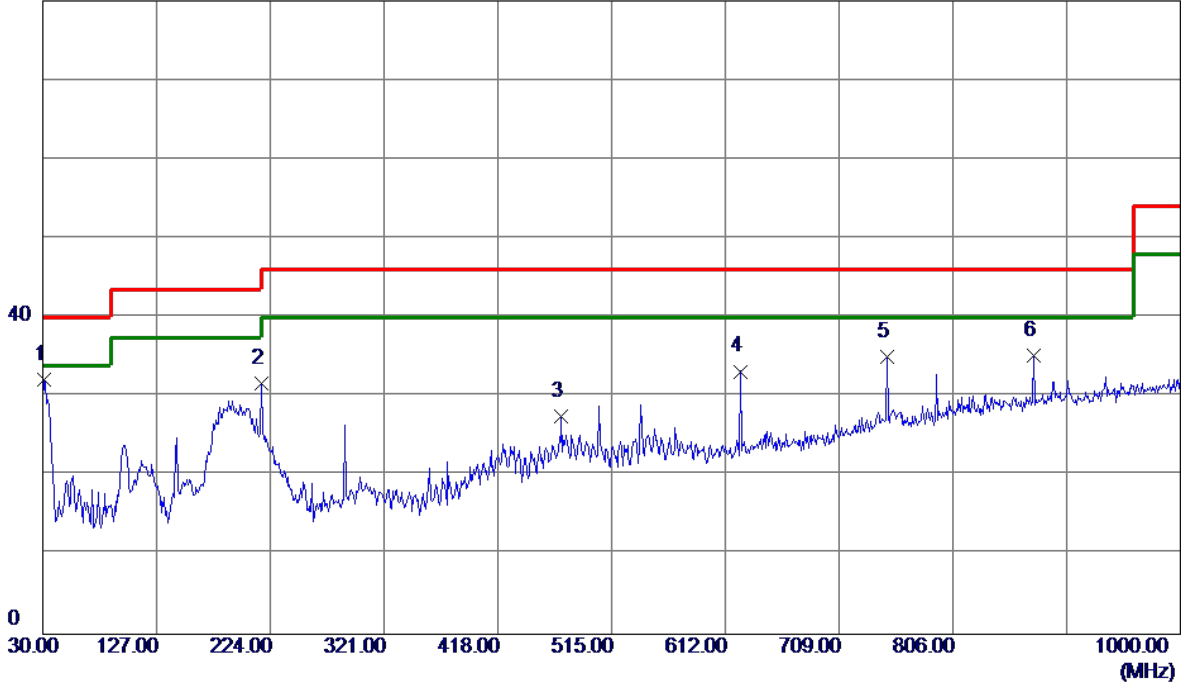


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	216.2400	42.05	-13.93	28.12	46.00	-17.88	Peak	
2	288.0200	43.84	-14.31	29.53	46.00	-16.47	Peak	
3	359.8000	40.60	-11.84	28.76	46.00	-17.24	Peak	
4	624.6100	38.03	-5.95	32.08	46.00	-13.92	Peak	
5	749.7400	33.95	-2.45	31.50	46.00	-14.50	Peak	
6 *	935.9800	33.52	1.72	35.24	46.00	-10.76	Peak	

Test Mode: TX B MODE CHANNEL 06 (Adapter: SOY-1200400-3014-II)

**Vertical**

80 dBuV/m

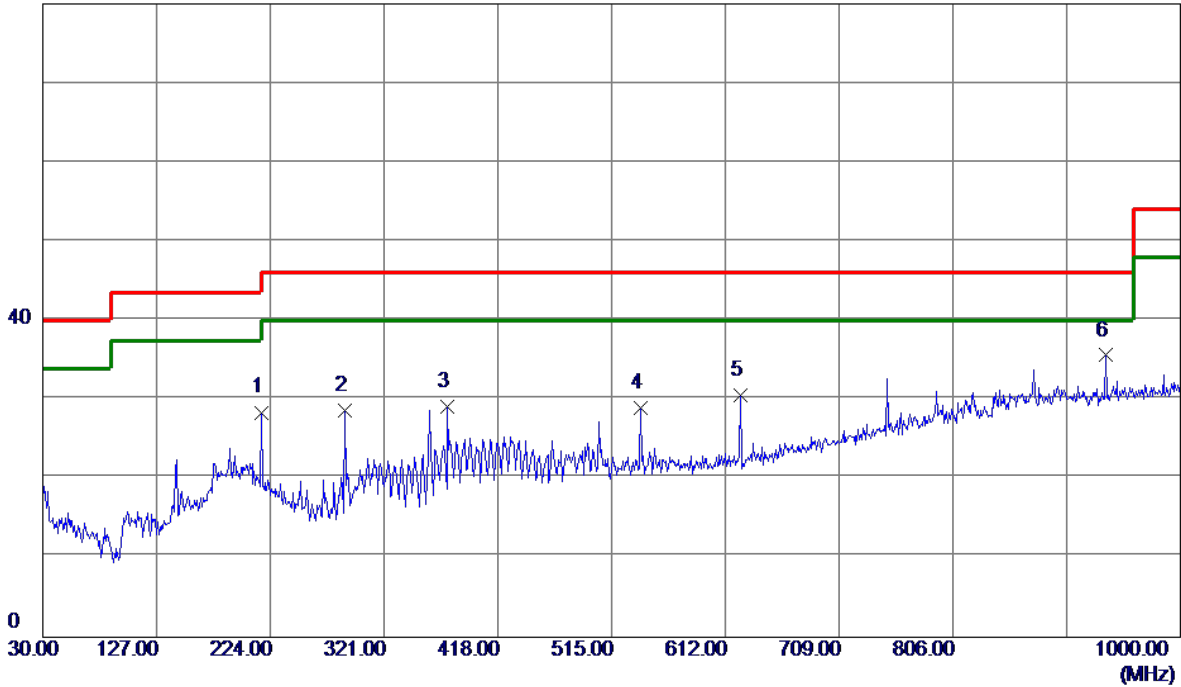


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.9700	47.29	-15.14	32.15	40.00	-7.85	Peak	
2	216.2400	45.54	-13.93	31.61	46.00	-14.39	Peak	
3	472.3200	36.92	-9.40	27.52	46.00	-18.48	Peak	
4	624.6100	39.15	-5.95	33.20	46.00	-12.80	Peak	
5	749.7400	37.52	-2.45	35.07	46.00	-10.93	Peak	
6	874.8700	34.71	0.51	35.22	46.00	-10.78	Peak	

Test Mode: TX B MODE CHANNEL 06 (Adapter: SOY-1200400-3014-II)

**Horizontal**

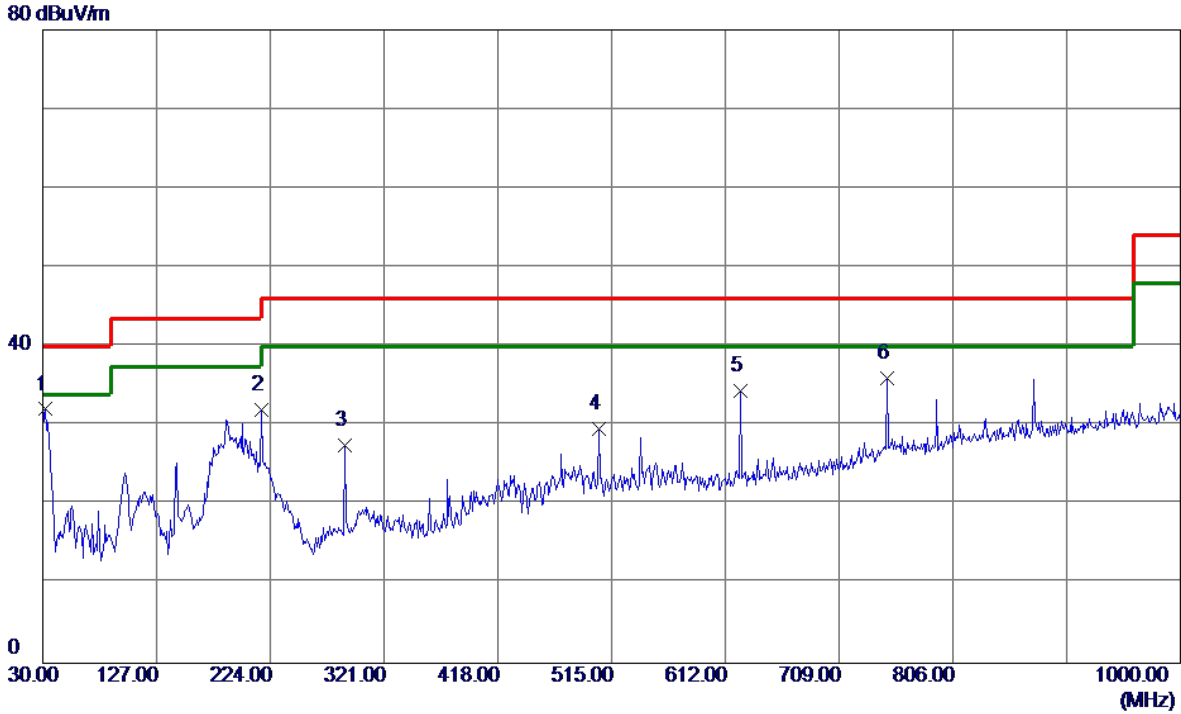
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	216.2400	42.33	-13.93	28.40	46.00	-17.60	Peak	
2	288.0200	42.92	-14.31	28.61	46.00	-17.39	Peak	
3	375.3200	40.77	-11.65	29.12	46.00	-16.88	Peak	
4	540.2199	36.84	-7.91	28.93	46.00	-17.07	Peak	
5	624.6100	36.58	-5.95	30.63	46.00	-15.37	Peak	
6 *	935.9800	33.88	1.72	35.60	46.00	-10.40	Peak	

Test Mode: TX B MODE CHANNEL 11 (Adapter: SOY-1200400-3014-II)

**Vertical**

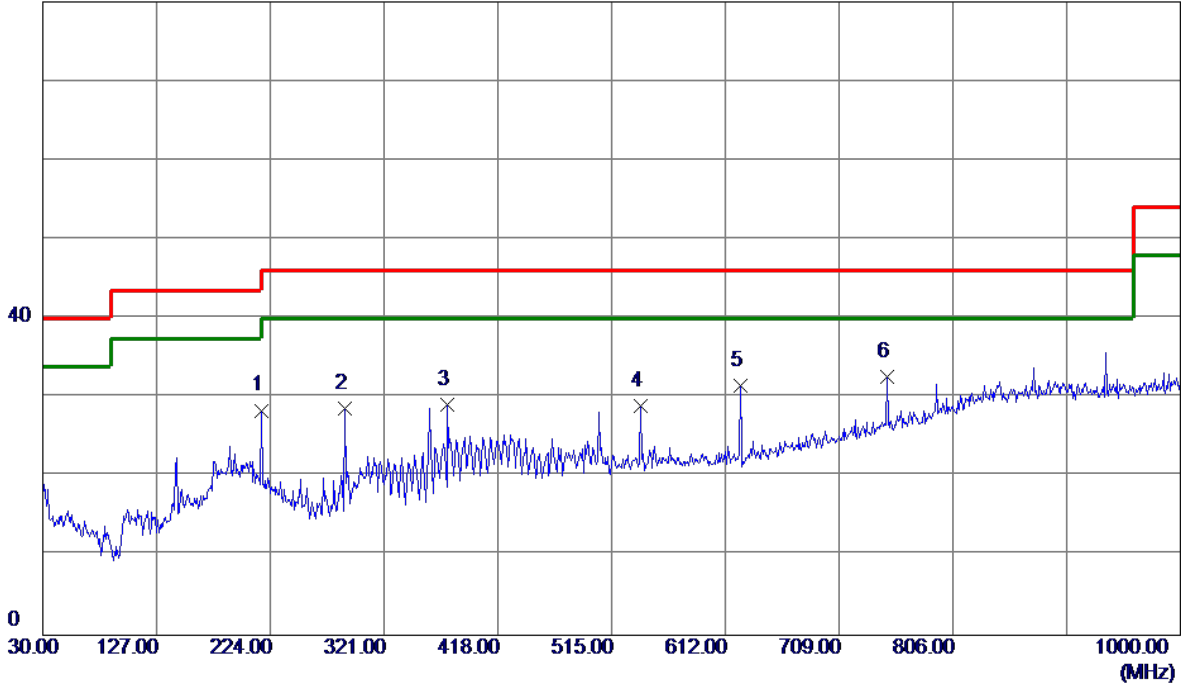


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	47.12	-15.04	32.08	40.00	-7.92	Peak	
2	216.2400	45.87	-13.93	31.94	46.00	-14.06	Peak	
3	288.0200	41.77	-14.31	27.46	46.00	-18.54	Peak	
4	504.3300	38.16	-8.63	29.53	46.00	-16.47	Peak	
5	624.6100	40.40	-5.95	34.45	46.00	-11.55	Peak	
6	749.7400	38.44	-2.45	35.99	46.00	-10.01	Peak	

Test Mode: TX B MODE CHANNEL 11 (Adapter: SOY-1200400-3014-II)

**Horizontal**

80 dBuV/m

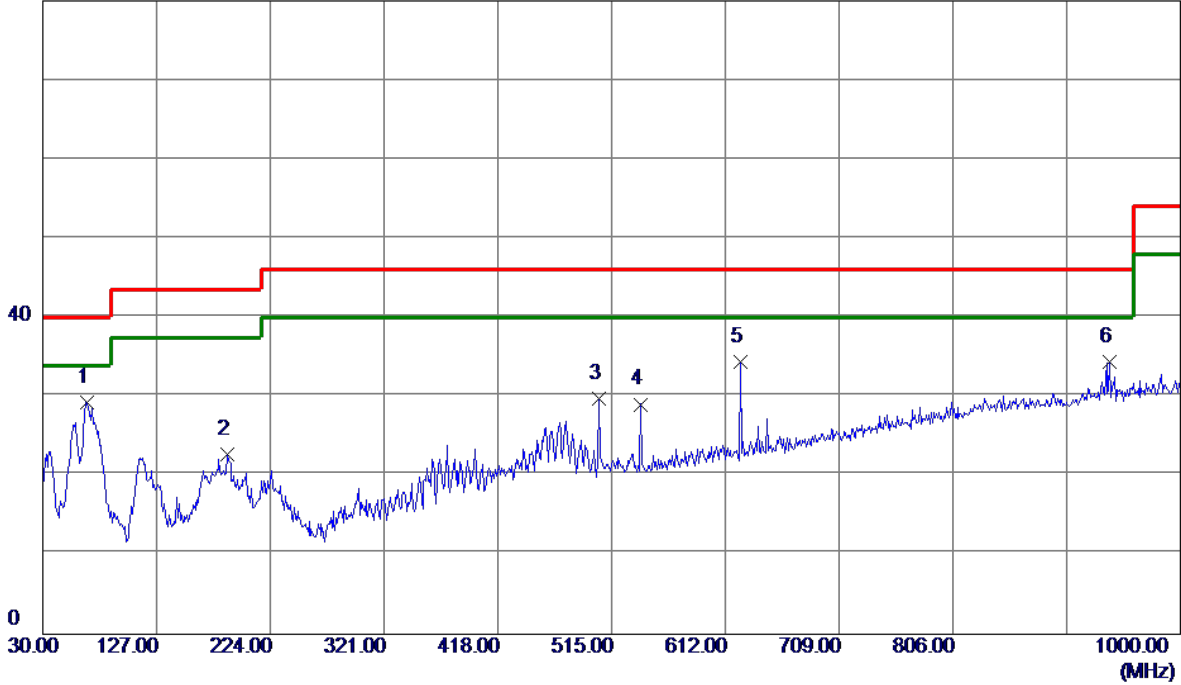


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	216.2400	42.33	-13.93	28.40	46.00	-17.60	Peak	
2	288.0200	42.92	-14.31	28.61	46.00	-17.39	Peak	
3	375.3200	40.77	-11.65	29.12	46.00	-16.88	Peak	
4	540.2199	36.84	-7.91	28.93	46.00	-17.07	Peak	
5	624.6100	37.51	-5.95	31.56	46.00	-14.44	Peak	
6 *	749.7400	35.04	-2.45	32.59	46.00	-13.41	Peak	

Test Mode: TX B MODE CHANNEL 01 (Adapter: S36B52-120A250-04)

**Vertical**

80 dBuV/m



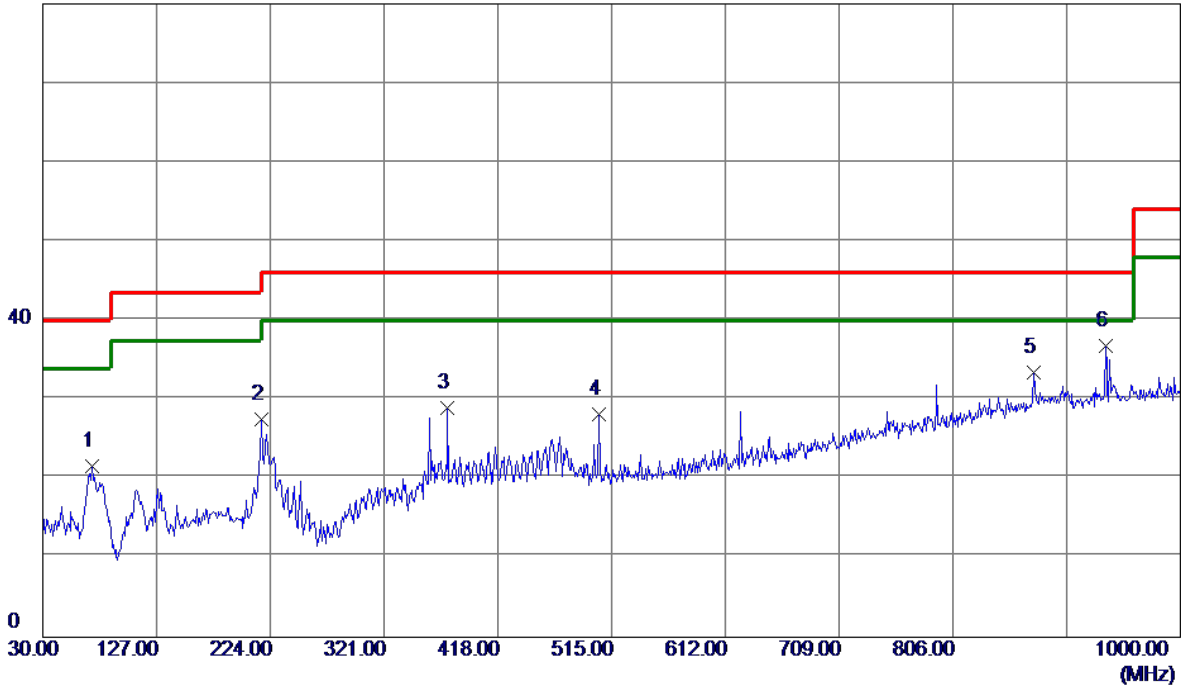
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	67.8300	45.27	-15.93	29.34	40.00	-10.66	Peak	
2	187.1400	35.35	-12.61	22.74	43.50	-20.76	Peak	
3	504.3300	38.35	-8.63	29.72	46.00	-16.28	Peak	
4	540.2199	36.95	-7.91	29.04	46.00	-16.96	Peak	
5	624.6100	40.29	-5.95	34.34	46.00	-11.66	Peak	
6	939.8600	32.62	1.80	34.42	46.00	-11.58	Peak	



Test Mode: TX B MODE CHANNEL 01 (Adapter: S36B52-120A250-04)

**Horizontal**

80 dBuV/m

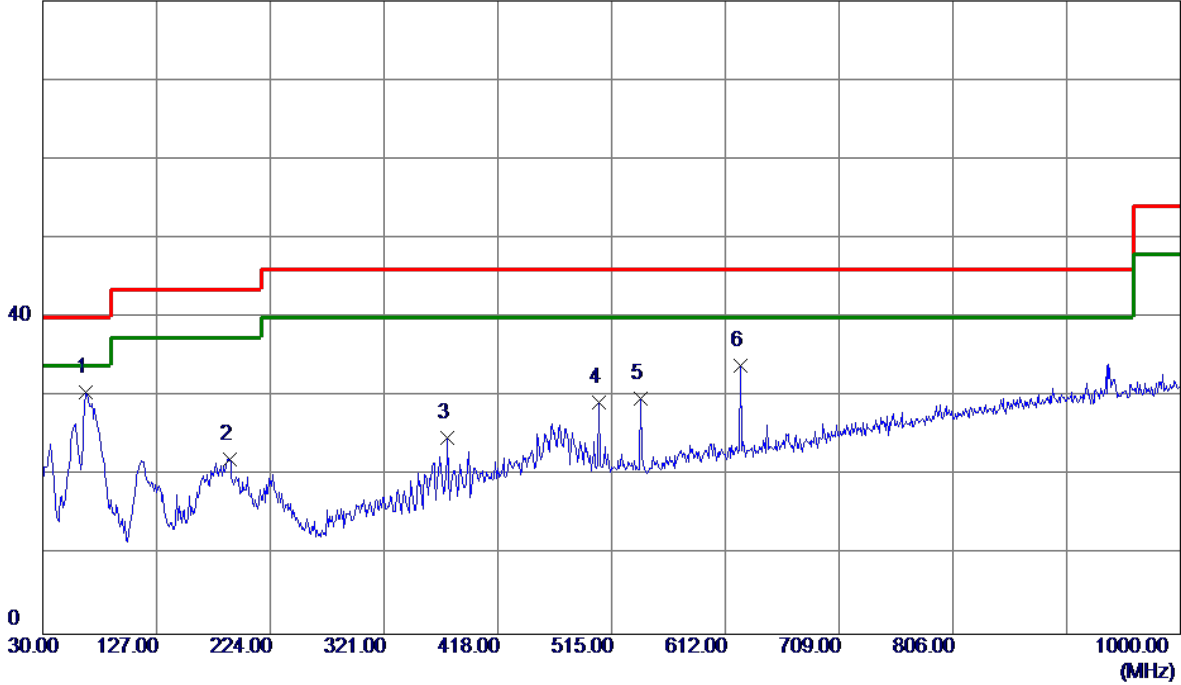


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	71.7100	38.25	-16.71	21.54	40.00	-18.46	Peak	
2	216.2400	41.40	-13.93	27.47	46.00	-18.53	Peak	
3	375.3200	40.67	-11.65	29.02	46.00	-16.98	Peak	
4	504.3300	36.80	-8.63	28.17	46.00	-17.83	Peak	
5	874.8700	32.87	0.51	33.38	46.00	-12.62	Peak	
6 *	935.9800	35.15	1.72	36.87	46.00	-9.13	Peak	

Test Mode: TX B MODE CHANNEL 06 (Adapter: S36B52-120A250-04)

**Vertical**

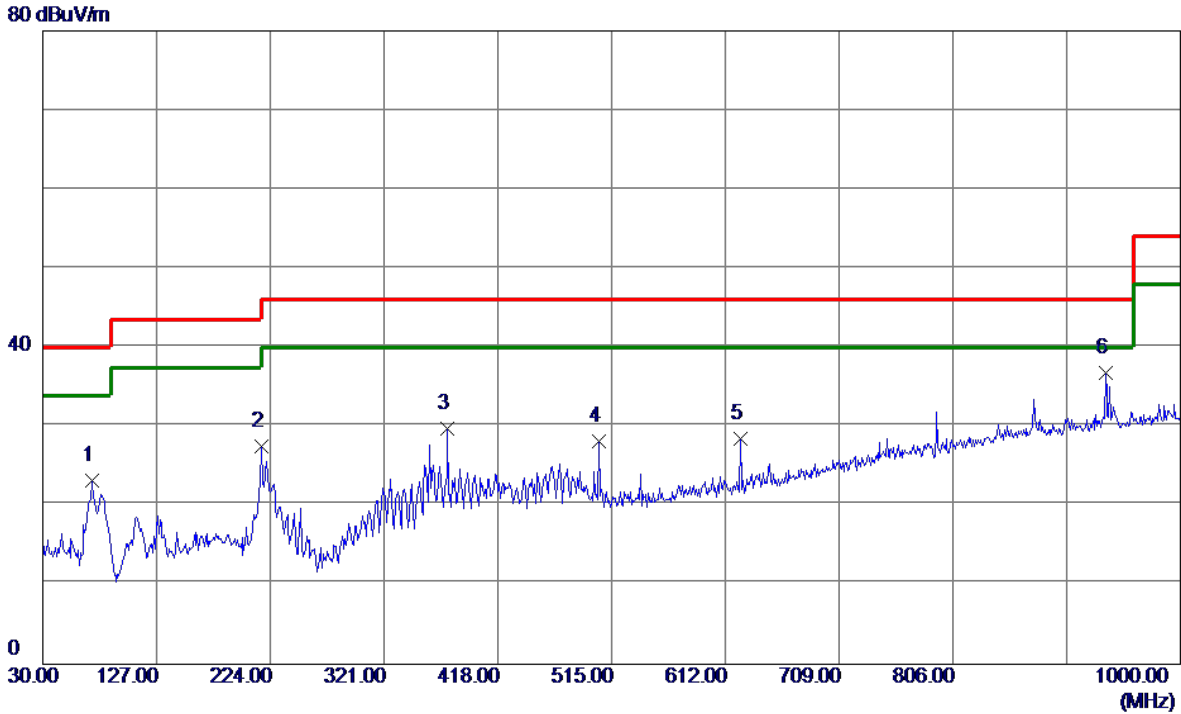
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	66.8600	46.25	-15.67	30.58	40.00	-9.42	Peak	
2	189.0800	34.91	-12.77	22.14	43.50	-21.36	Peak	
3	375.3200	36.49	-11.65	24.84	46.00	-21.16	Peak	
4	504.3300	37.98	-8.63	29.35	46.00	-16.65	Peak	
5	540.2199	37.71	-7.91	29.80	46.00	-16.20	Peak	
6	624.6100	39.91	-5.95	33.96	46.00	-12.04	Peak	

Test Mode: TX B MODE CHANNEL 06 (Adapter: S36B52-120A250-04)

Horizontal

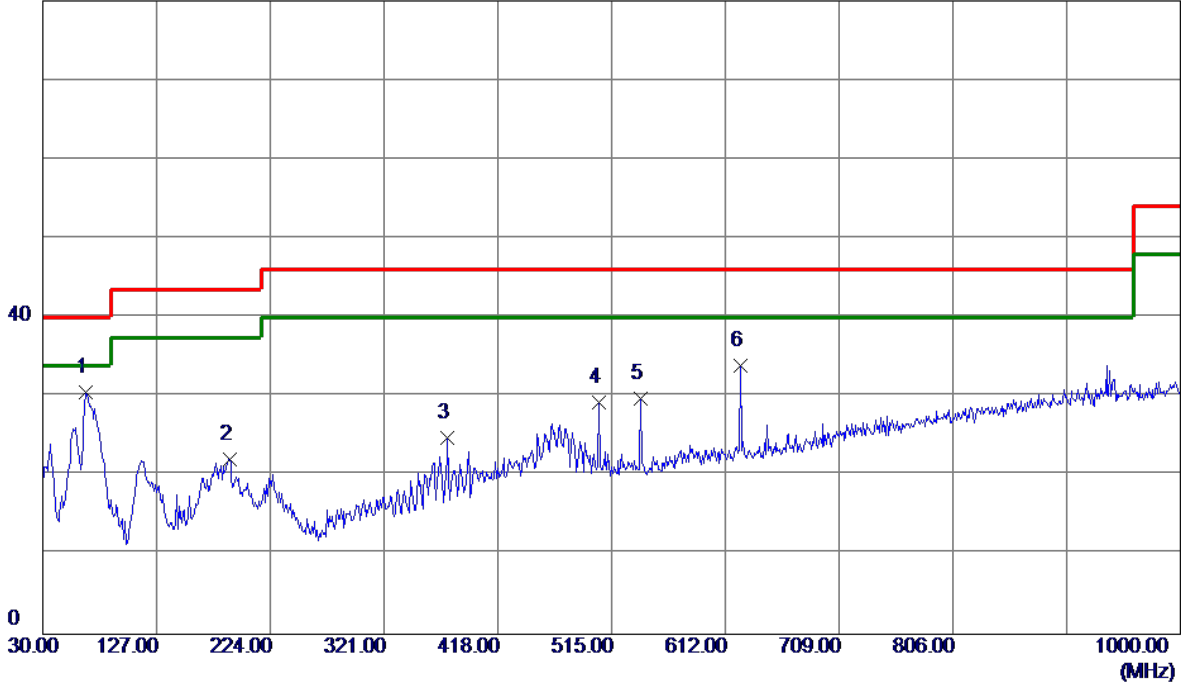


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	71.7100	39.98	-16.71	23.27	40.00	-16.73	Peak	
2	216.2400	41.40	-13.93	27.47	46.00	-18.53	Peak	
3	375.3200	41.47	-11.65	29.82	46.00	-16.18	Peak	
4	504.3300	36.80	-8.63	28.17	46.00	-17.83	Peak	
5	624.6100	34.36	-5.95	28.41	46.00	-17.59	Peak	
6 *	935.9800	35.15	1.72	36.87	46.00	-9.13	Peak	

Test Mode: TX B MODE CHANNEL 11 (Adapter: S36B52-120A250-04)

**Vertical**

80 dBuV/m

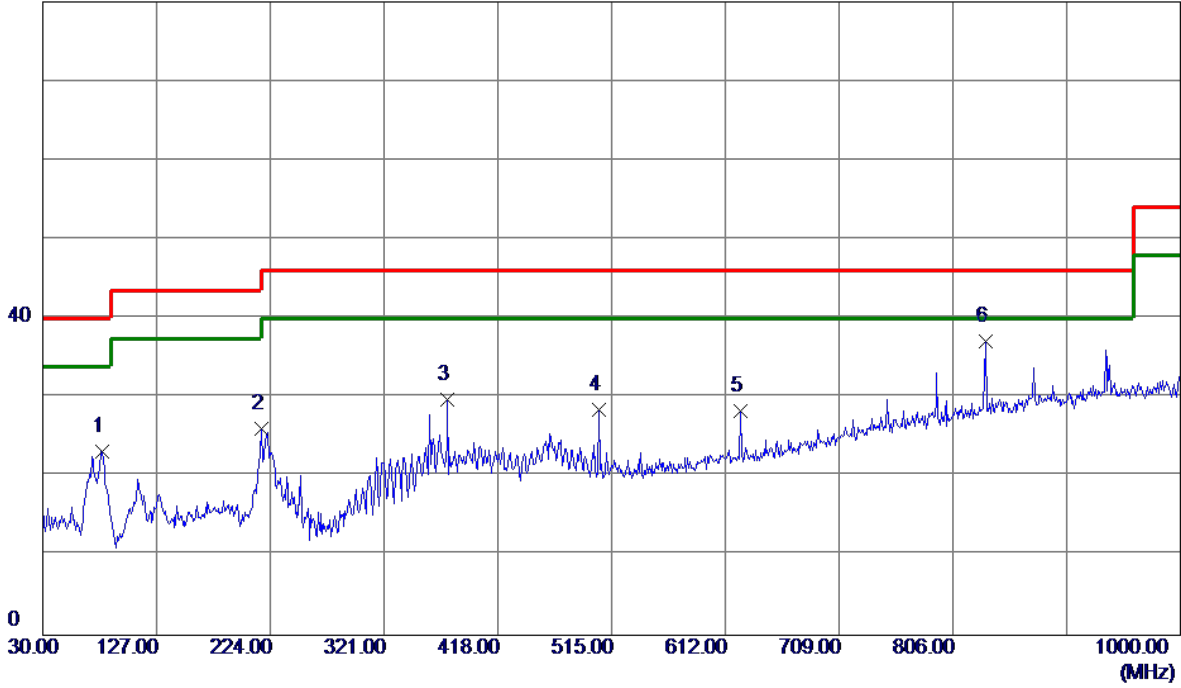


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	66.8600	46.25	-15.67	30.58	40.00	-9.42	Peak	
2	189.0800	34.91	-12.77	22.14	43.50	-21.36	Peak	
3	375.3200	36.49	-11.65	24.84	46.00	-21.16	Peak	
4	504.3300	37.98	-8.63	29.35	46.00	-16.65	Peak	
5	540.2199	37.71	-7.91	29.80	46.00	-16.20	Peak	
6	624.6100	39.91	-5.95	33.96	46.00	-12.04	Peak	

Test Mode: TX B MODE CHANNEL 11 (Adapter: S36B52-120A250-04)

**Horizontal**

80 dBuV/m



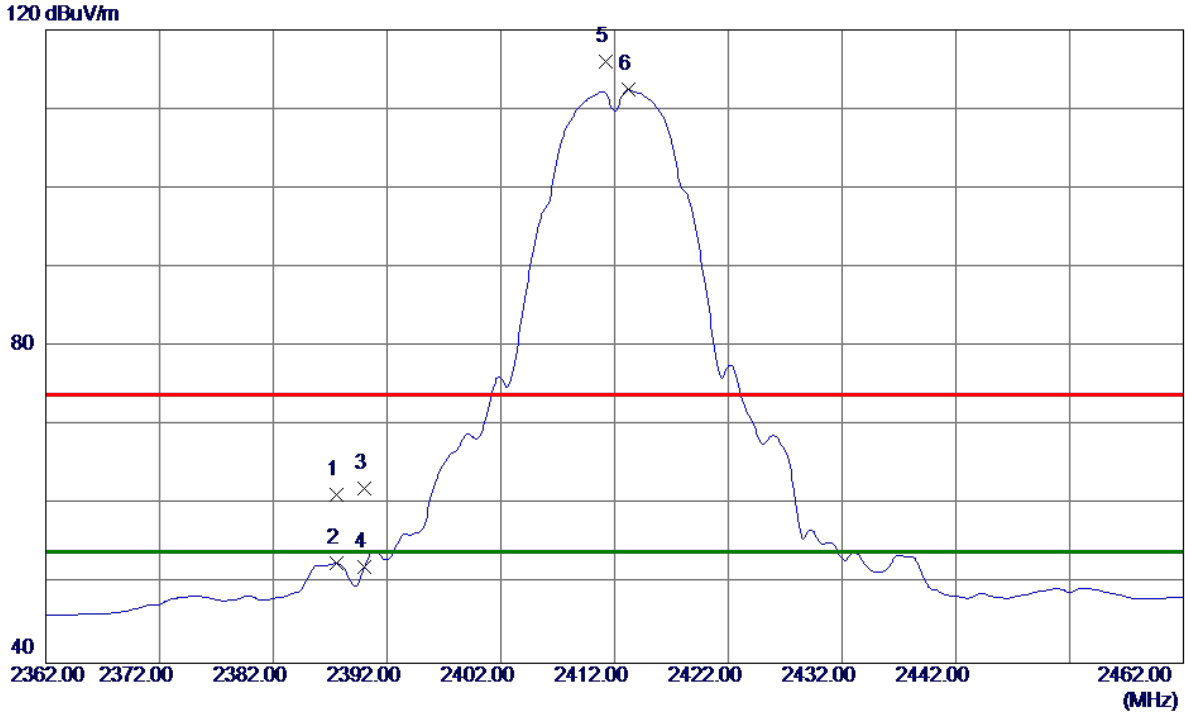
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	80.4400	41.52	-18.25	23.27	40.00	-16.73	Peak	
2	216.2400	39.96	-13.93	26.03	46.00	-19.97	Peak	
3	375.3200	41.41	-11.65	29.76	46.00	-16.24	Peak	
4	504.3300	37.14	-8.63	28.51	46.00	-17.49	Peak	
5	624.6100	34.27	-5.95	28.32	46.00	-17.68	Peak	
6 *	834.1300	37.49	-0.43	37.06	46.00	-8.94	Peak	

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

For Model: MT7711XY with adapter: SOY-1200400-3014-II)

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

Vertical

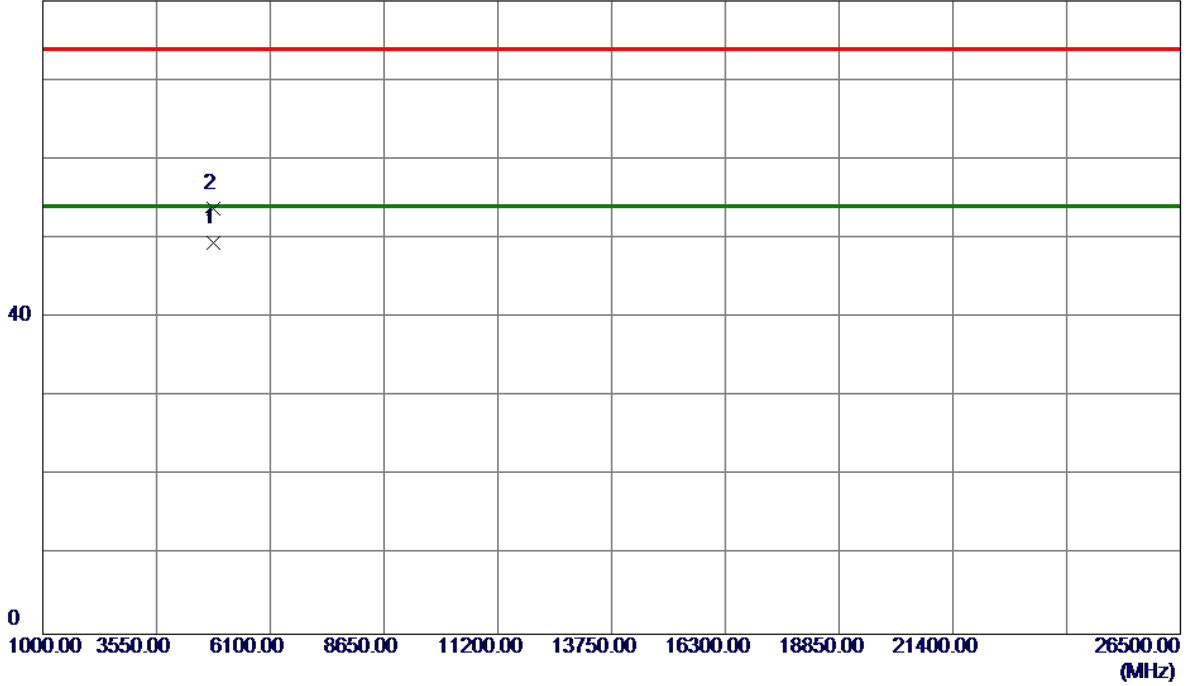


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.6000	28.30	33.05	61.35	74.00	-12.65	Peak	
2	2387.6000	19.55	33.05	52.60	54.00	-1.40	AVG	
3	2390.0000	29.04	33.06	62.10	74.00	-11.90	Peak	
4	2390.0000	19.06	33.06	52.12	54.00	-1.88	AVG	
5	2411.2000	82.78	33.14	115.92	74.00	41.92	Peak	No Limit
6 *	2413.2000	79.29	33.14	112.43	54.00	58.43	AVG	No Limit

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

**Vertical**

80 dBuV/m

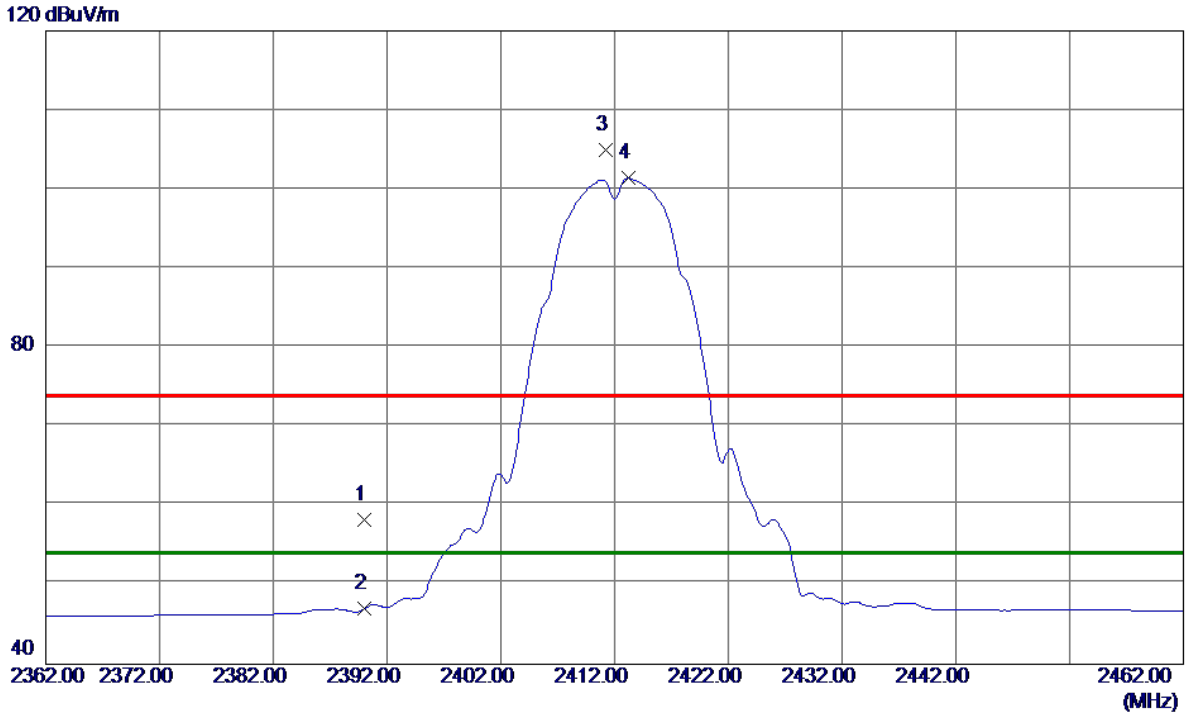


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8540	42.77	6.66	49.43	54.00	-4.57	AVG	
2	4823.9100	47.14	6.66	53.80	74.00	-20.20	Peak	



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

### Horizontal

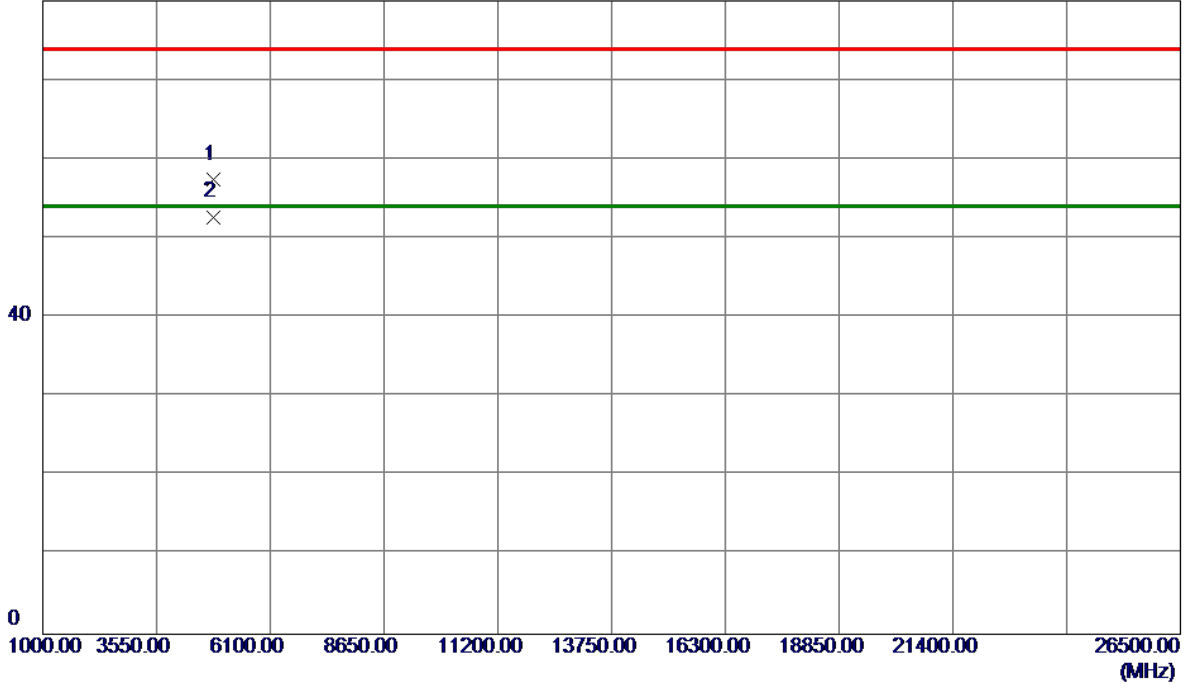


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.18	33.06	58.24	74.00	-15.76	Peak	
2	2390.0000	13.93	33.06	46.99	54.00	-7.01	AVG	
3	2411.2000	71.75	33.14	104.89	74.00	30.89	Peak	No Limit
4 *	2413.2000	68.27	33.14	101.41	54.00	47.41	AVG	No Limit

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

### Horizontal

80 dBuV/m

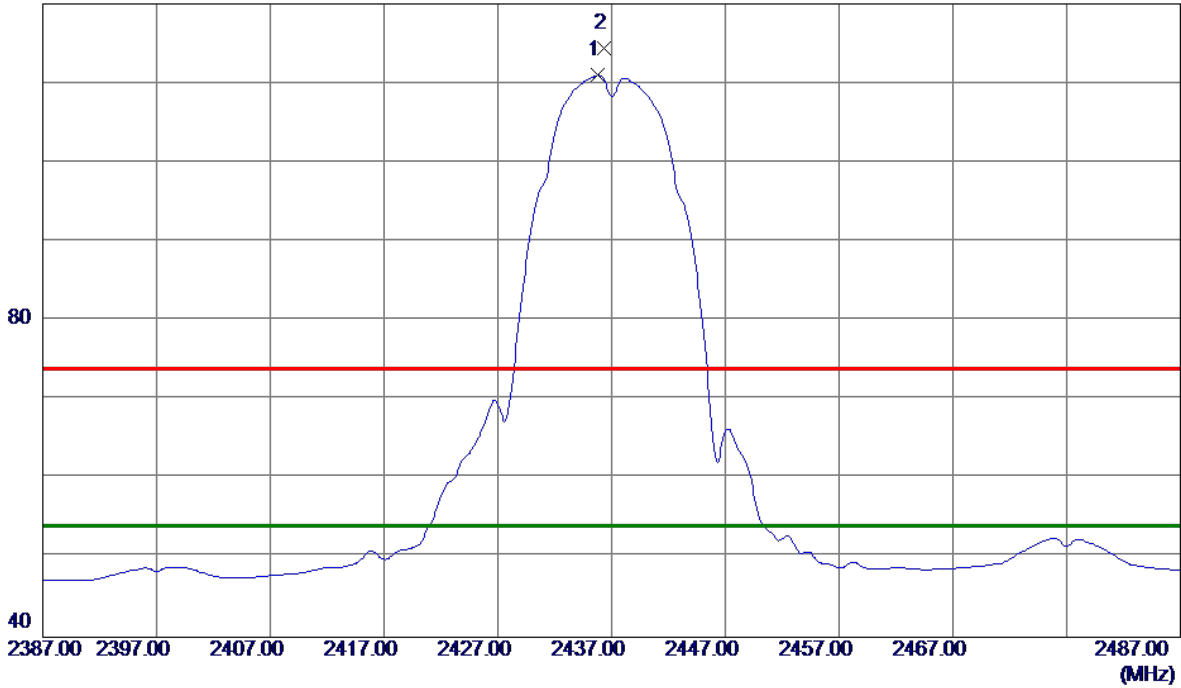


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8720	50.76	6.66	57.42	74.00	-16.58	Peak	
2 *	4823.9220	46.06	6.66	52.72	54.00	-1.28	AVG	

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

**Vertical**

120 dBuV/m

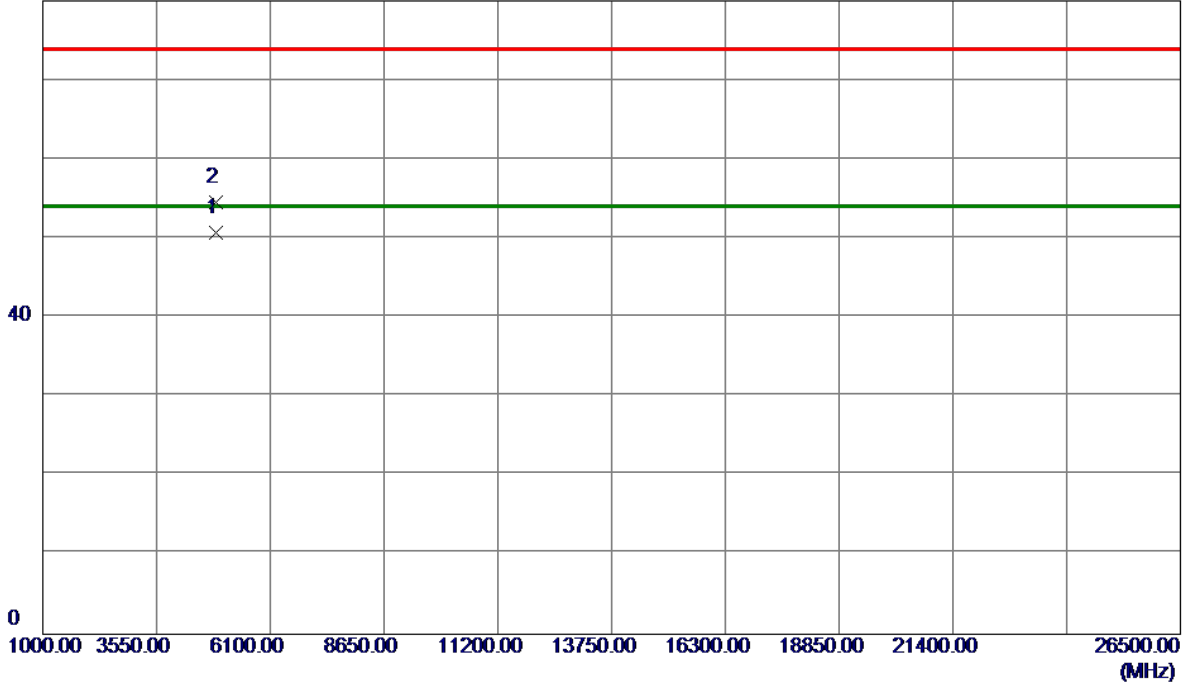


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.8000	77.75	33.23	110.98	54.00	56.98	AVG	No Limit
2	2436.3000	81.13	33.23	114.36	74.00	40.36	Peak	No Limit

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

**Vertical**

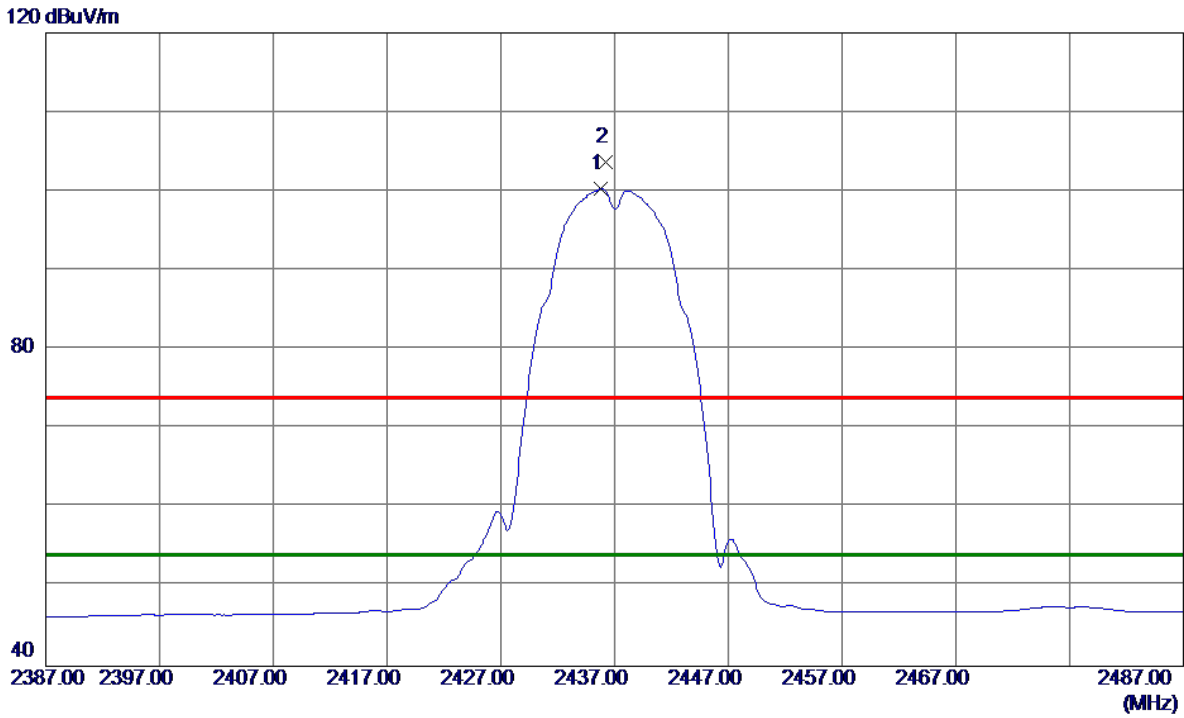
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9240	43.84	6.84	50.68	54.00	-3.32	AVG	
2	4873.9840	47.68	6.84	54.52	74.00	-19.48	Peak	

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

**Horizontal**

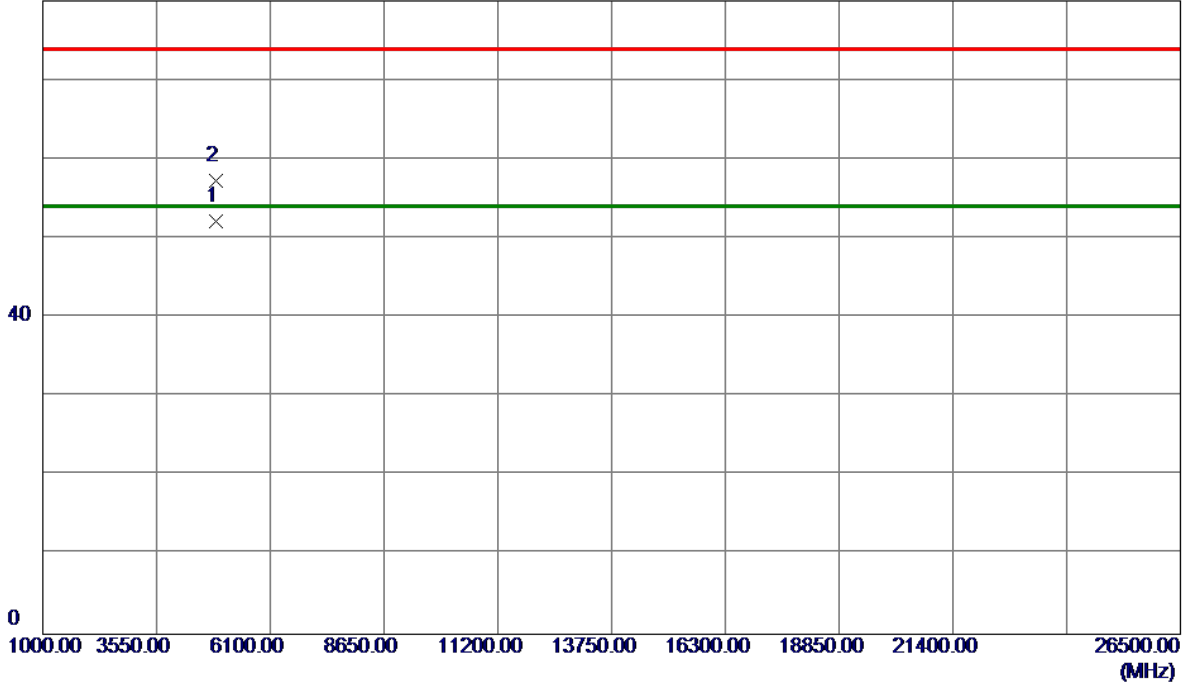


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.8000	67.05	33.23	100.28	54.00	46.28	AVG	No Limit
2	2436.2000	70.46	33.23	103.69	74.00	29.69	Peak	No Limit

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

**Horizontal**

80 dBuV/m

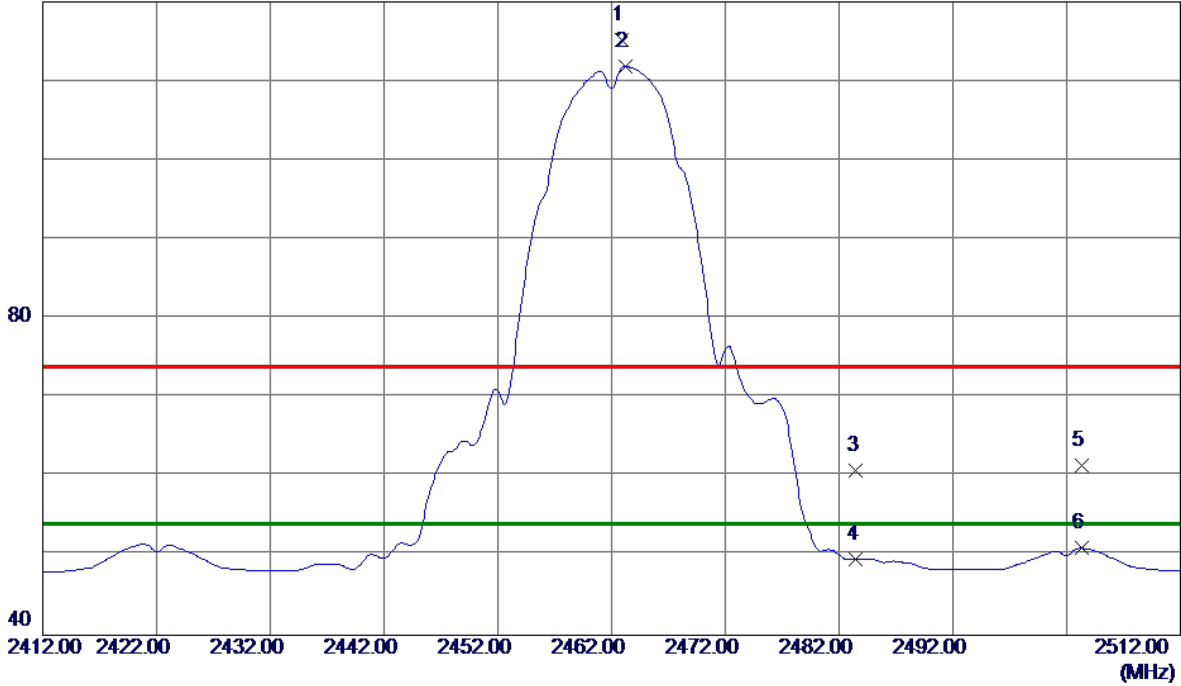


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9120	45.38	6.84	52.22	54.00	-1.78	AVG	
2	4873.9380	50.46	6.84	57.30	74.00	-16.70	Peak	

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

**Vertical**

120 dBuV/m



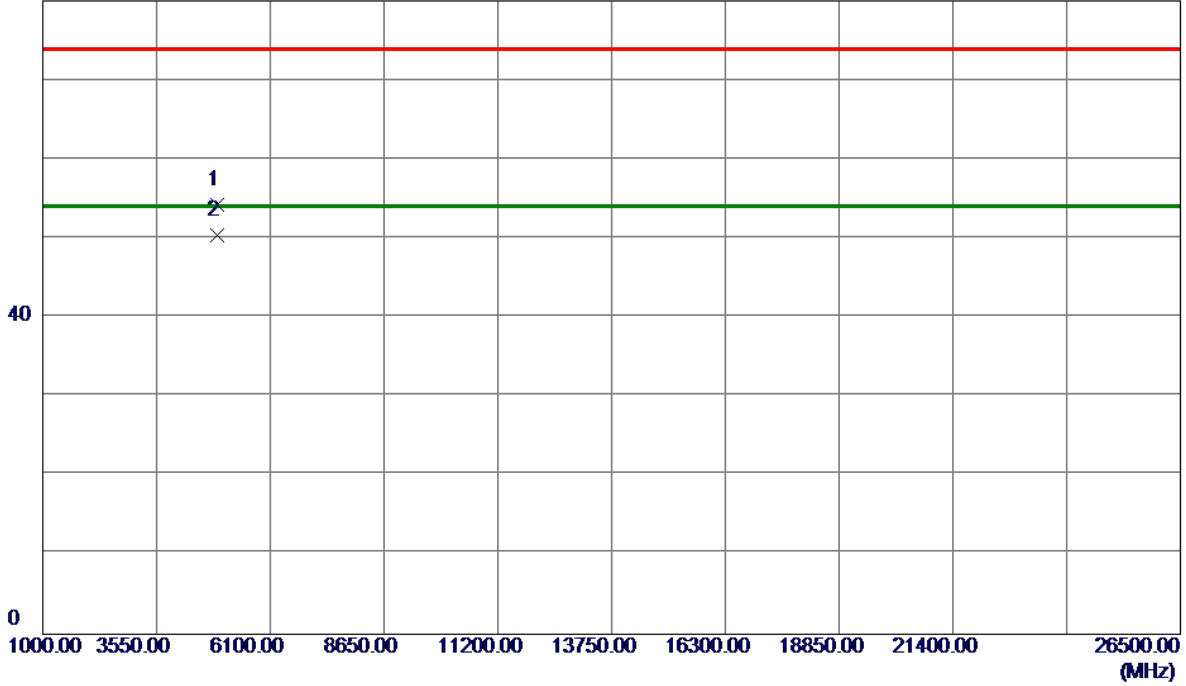
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	81.89	33.33	115.22	74.00	41.22	Peak	No Limit
2 *	2463.2000	78.55	33.33	111.88	54.00	57.88	AVG	No Limit
3	2483.5000	27.40	33.41	60.81	74.00	-13.19	Peak	
4	2483.5000	16.17	33.41	49.58	54.00	-4.42	AVG	
5	2503.3000	28.03	33.48	61.51	74.00	-12.49	Peak	
6	2503.3000	17.49	33.48	50.97	54.00	-3.03	AVG	



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

**Vertical**

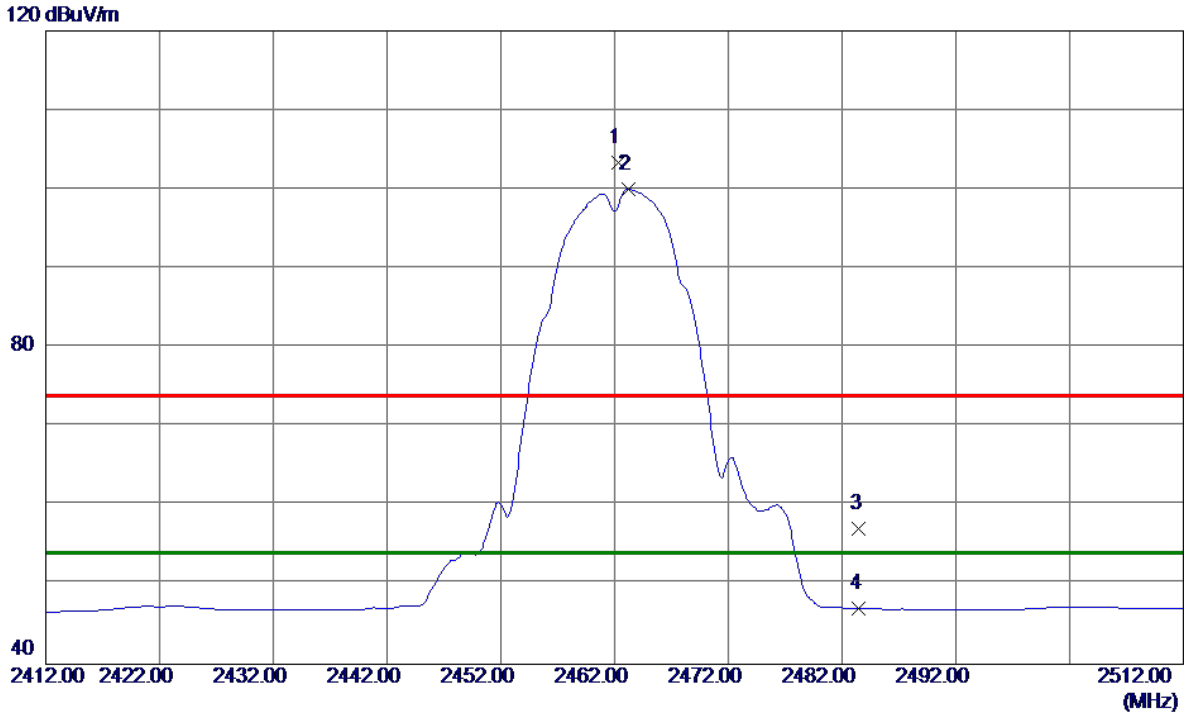
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.8640	47.28	7.02	54.30	74.00	-19.70	Peak	
2 *	4923.9020	43.46	7.02	50.48	54.00	-3.52	AVG	

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

**Horizontal**

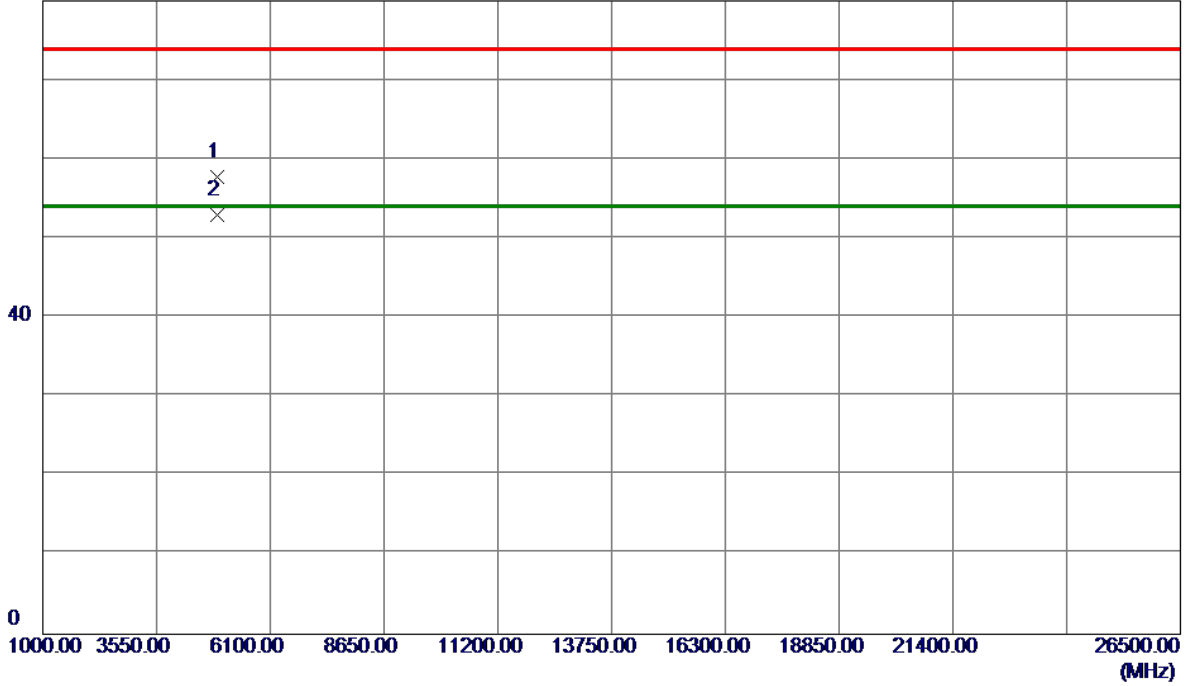


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.3000	70.09	33.33	103.42	74.00	29.42	Peak	No Limit
2 *	2463.2000	66.65	33.33	99.98	54.00	45.98	AVG	No Limit
3	2483.5000	23.72	33.41	57.13	74.00	-16.87	Peak	
4	2483.5000	13.58	33.41	46.99	54.00	-7.01	AVG	

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

### Horizontal

80 dBuV/m

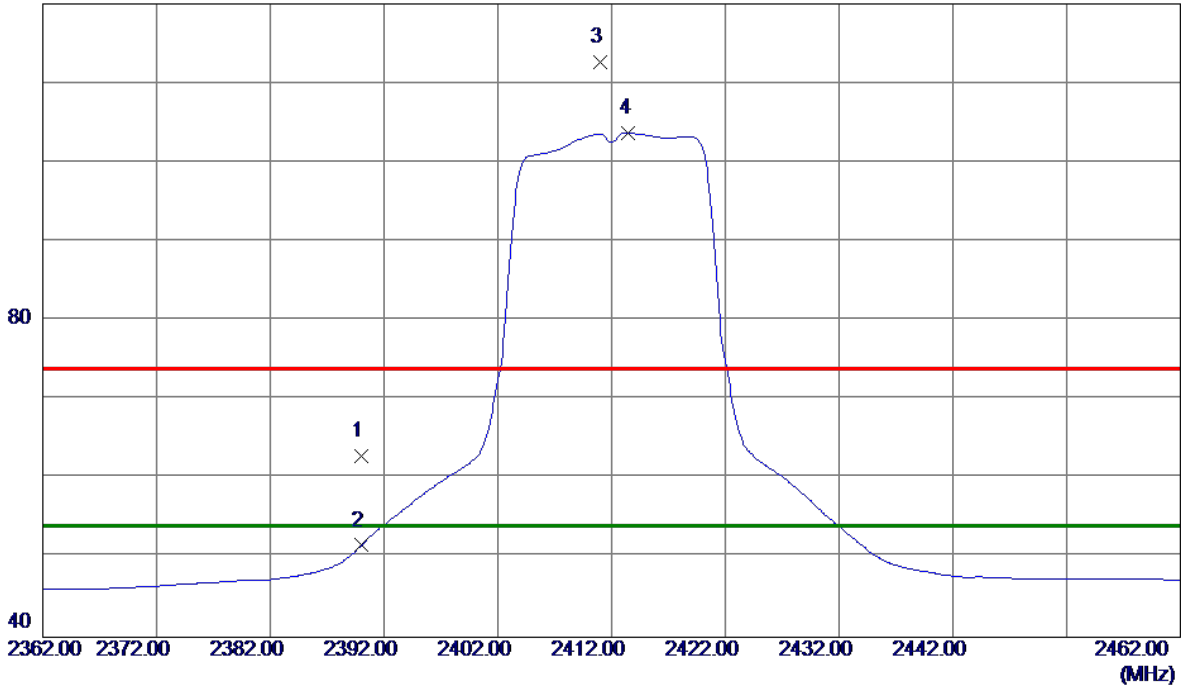


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.8340	50.73	7.02	57.75	74.00	-16.25	Peak	
2 *	4923.9100	45.95	7.02	52.97	54.00	-1.03	AVG	

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

**Vertical**

120 dBuV/m

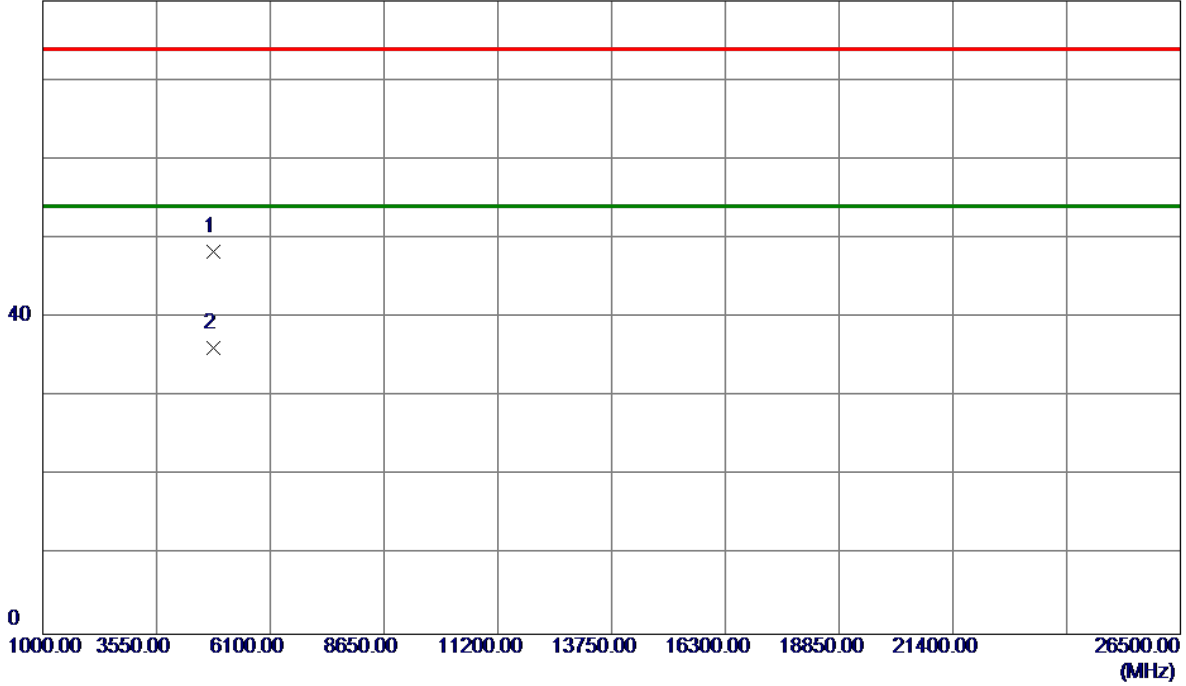


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.82	33.06	62.88	74.00	-11.12	Peak	
2	2390.0000	18.54	33.06	51.60	54.00	-2.40	AVG	
3	2411.0000	79.50	33.14	112.64	74.00	38.64	Peak	No Limit
4 *	2413.5000	70.58	33.14	103.72	54.00	49.72	AVG	No Limit

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

**Vertical**

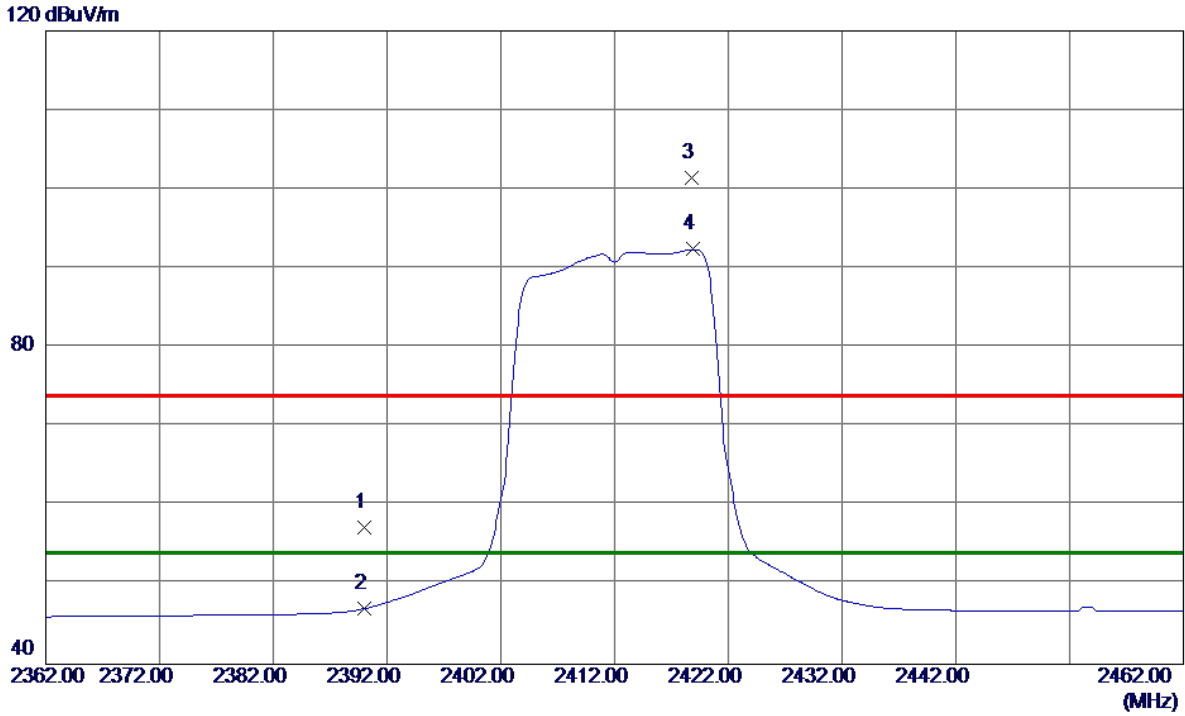
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.1420	41.68	6.65	48.33	74.00	-25.67	Peak	
2 *	4824.6080	29.49	6.66	36.15	54.00	-17.85	AVG	

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

### Horizontal

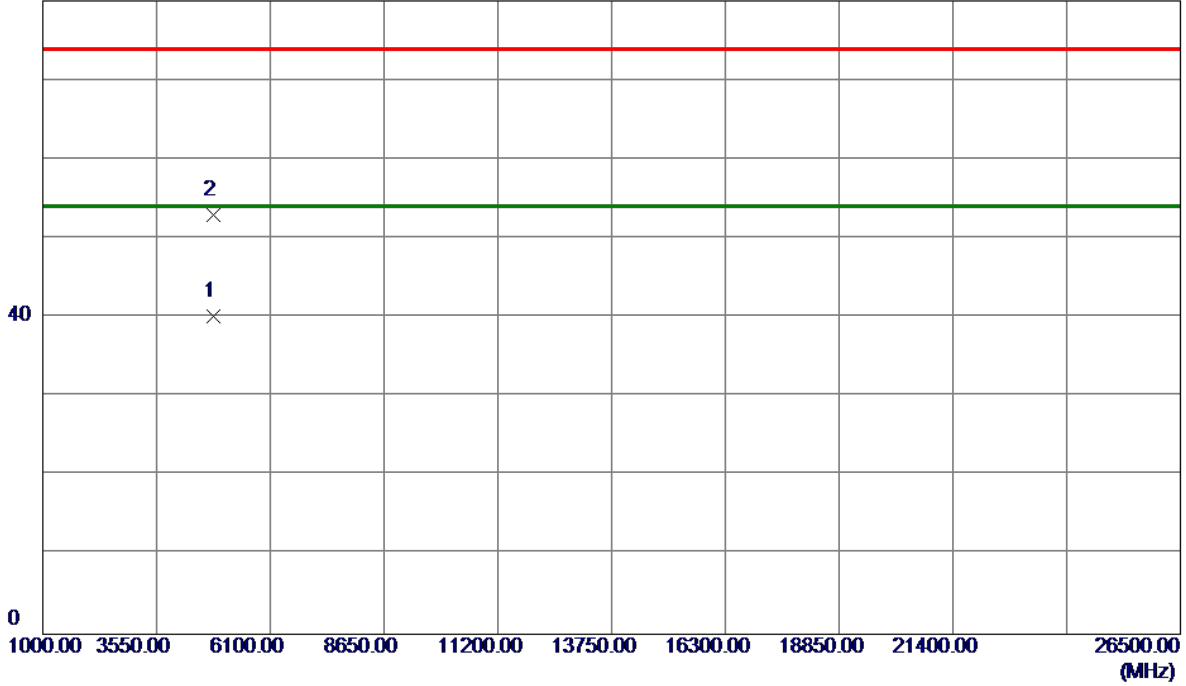


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.21	33.06	57.27	74.00	-16.73	Peak	
2	2390.0000	13.96	33.06	47.02	54.00	-6.98	AVG	
3	2418.8000	68.27	33.16	101.43	74.00	27.43	Peak	No Limit
4 *	2418.9000	59.24	33.16	92.40	54.00	38.40	AVG	No Limit

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

### Horizontal

80 dBuV/m

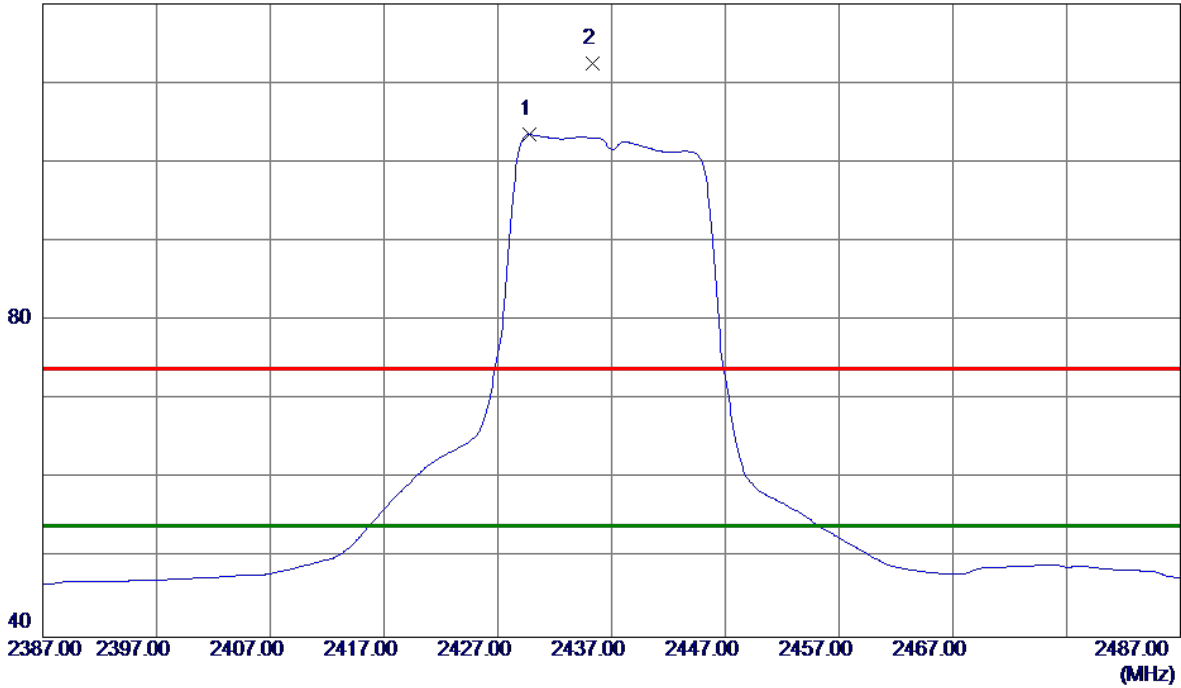


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4826.4300	33.55	6.67	40.22	54.00	-13.78	AVG	
2	4826.4750	46.31	6.67	52.98	74.00	-21.02	Peak	

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

**Vertical**

120 dBuV/m



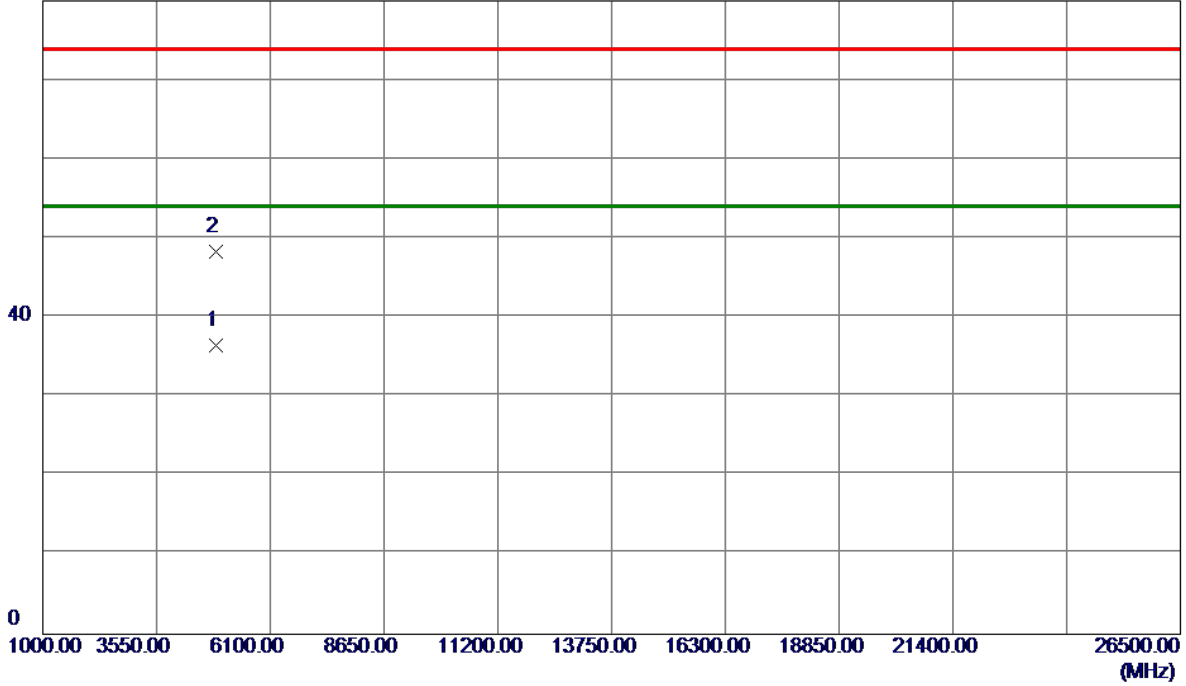
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2429.8000	70.27	33.21	103.48	54.00	49.48	AVG	No Limit
2	2435.3000	79.26	33.23	112.49	74.00	38.49	Peak	No Limit



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

**Vertical**

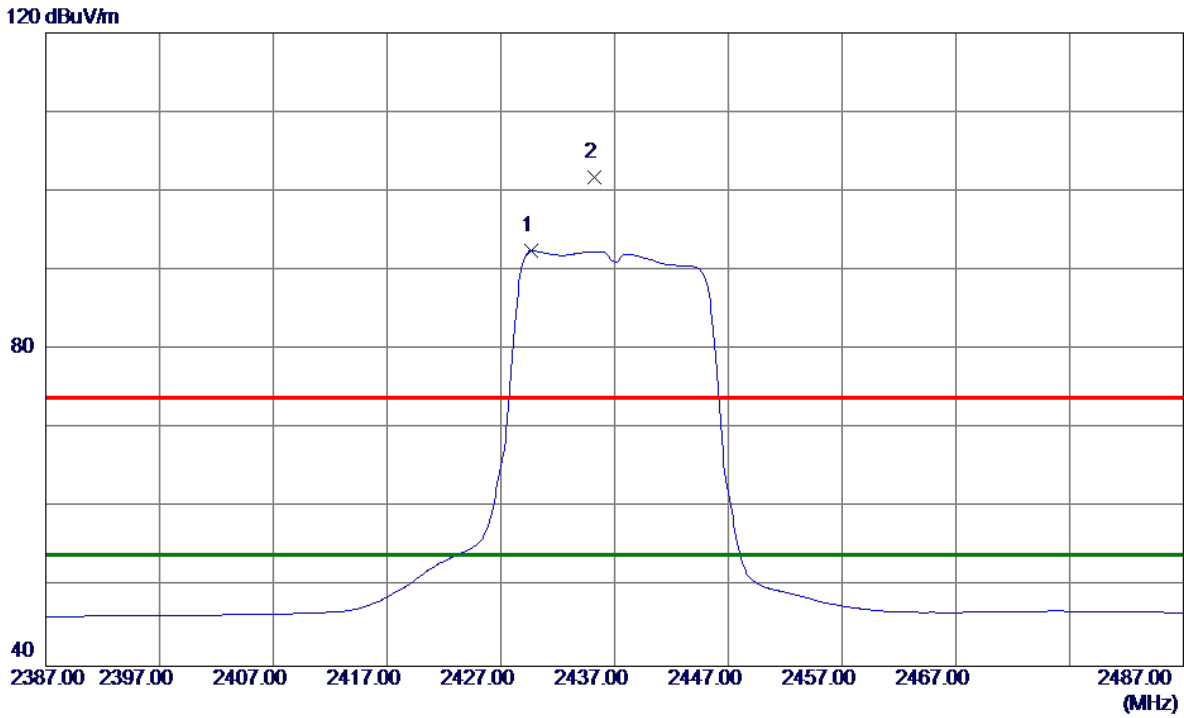
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.2180	29.60	6.83	36.43	54.00	-17.57	AVG	
2	4874.6640	41.48	6.84	48.32	74.00	-25.68	Peak	

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

**Horizontal**

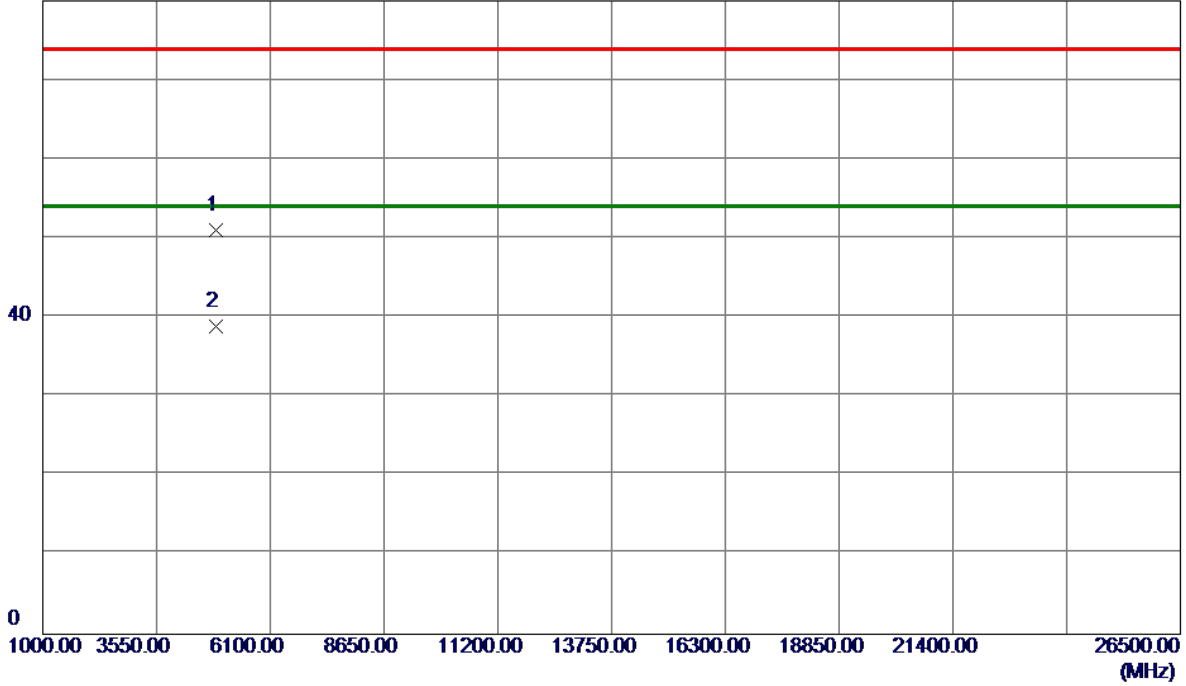


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2429.7000	59.28	33.21	92.49	54.00	38.49	AVG	No Limit
2	2435.2000	68.49	33.23	101.72	74.00	27.72	Peak	No Limit

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

### Horizontal

80 dBuV/m

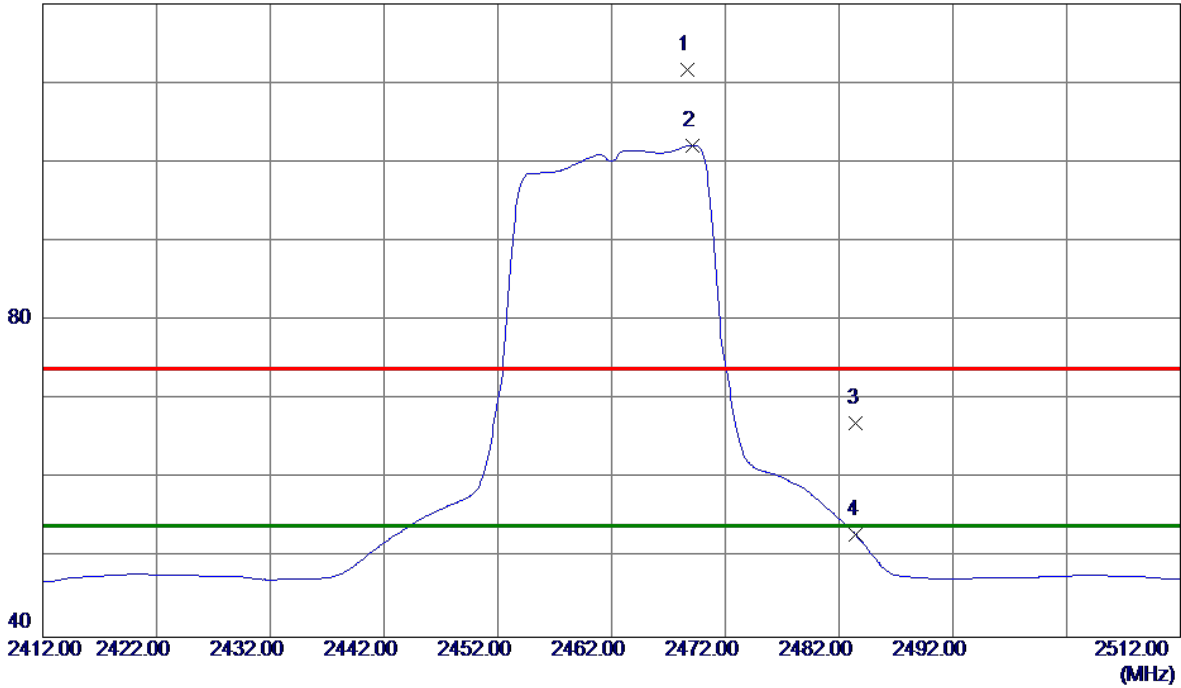


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.2740	44.29	6.83	51.12	74.00	-22.88	Peak	
2 *	4873.9080	32.06	6.84	38.90	54.00	-15.10	AVG	

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

**Vertical**

120 dBuV/m

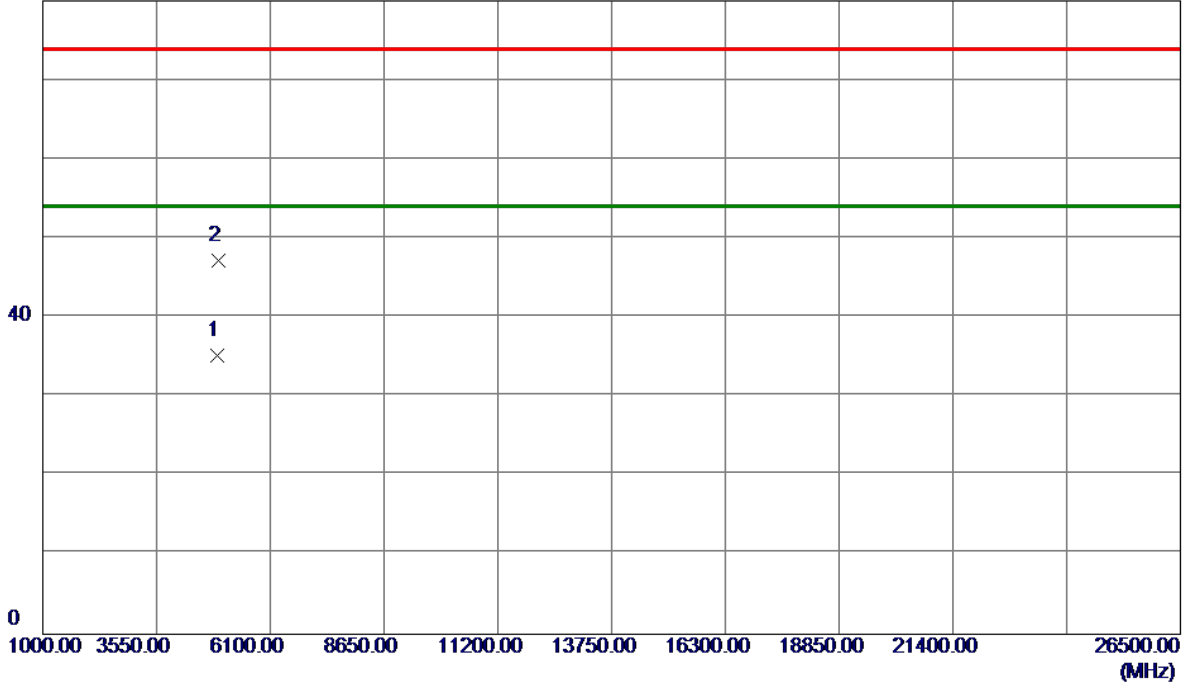


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.7000	78.36	33.35	111.71	74.00	37.71	Peak	No Limit
2 *	2469.1000	68.80	33.35	102.15	54.00	48.15	AVG	No Limit
3	2483.5000	33.66	33.41	67.07	74.00	-6.93	Peak	
4	2483.5000	19.49	33.41	52.90	54.00	-1.10	AVG	

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

**Vertical**

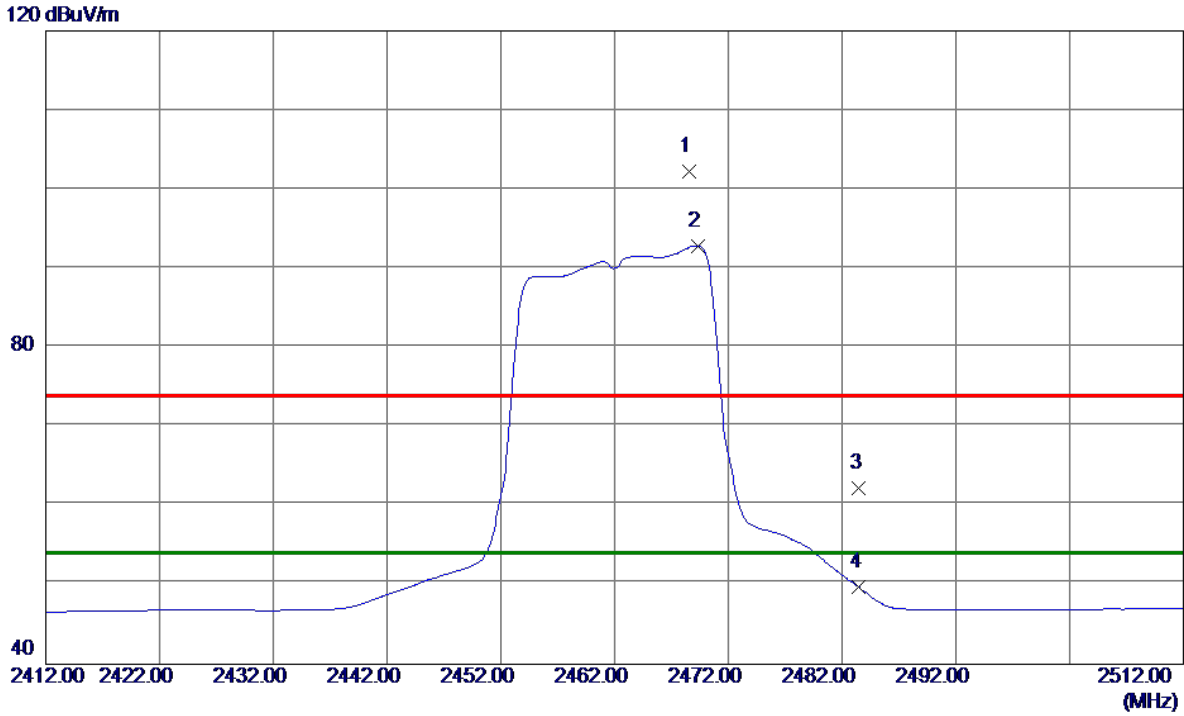
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0800	28.21	7.02	35.23	54.00	-18.77	AVG	
2	4924.6800	40.24	7.02	47.26	74.00	-26.74	Peak	

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

**Horizontal**

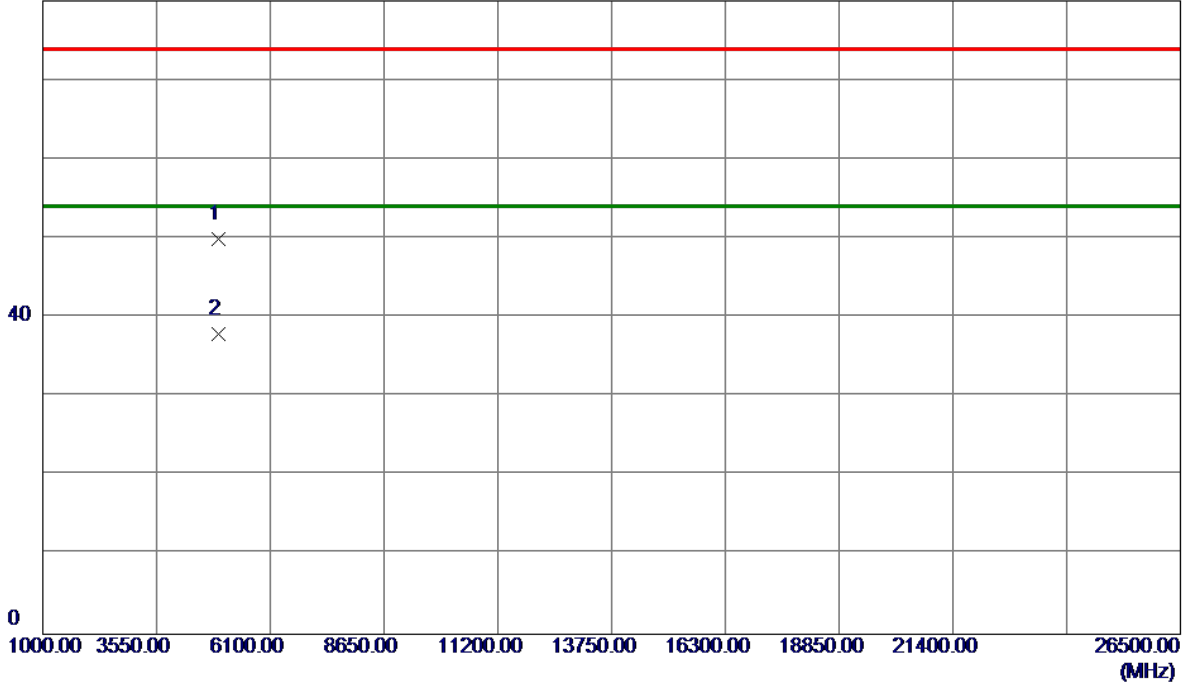


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.6000	68.96	33.35	102.31	74.00	28.31	Peak	No Limit
2 *	2469.3000	59.52	33.35	92.87	54.00	38.87	AVG	No Limit
3	2483.5000	28.86	33.41	62.27	74.00	-11.73	Peak	
4	2483.5000	16.28	33.41	49.69	54.00	-4.31	AVG	

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

### Horizontal

80 dBuV/m

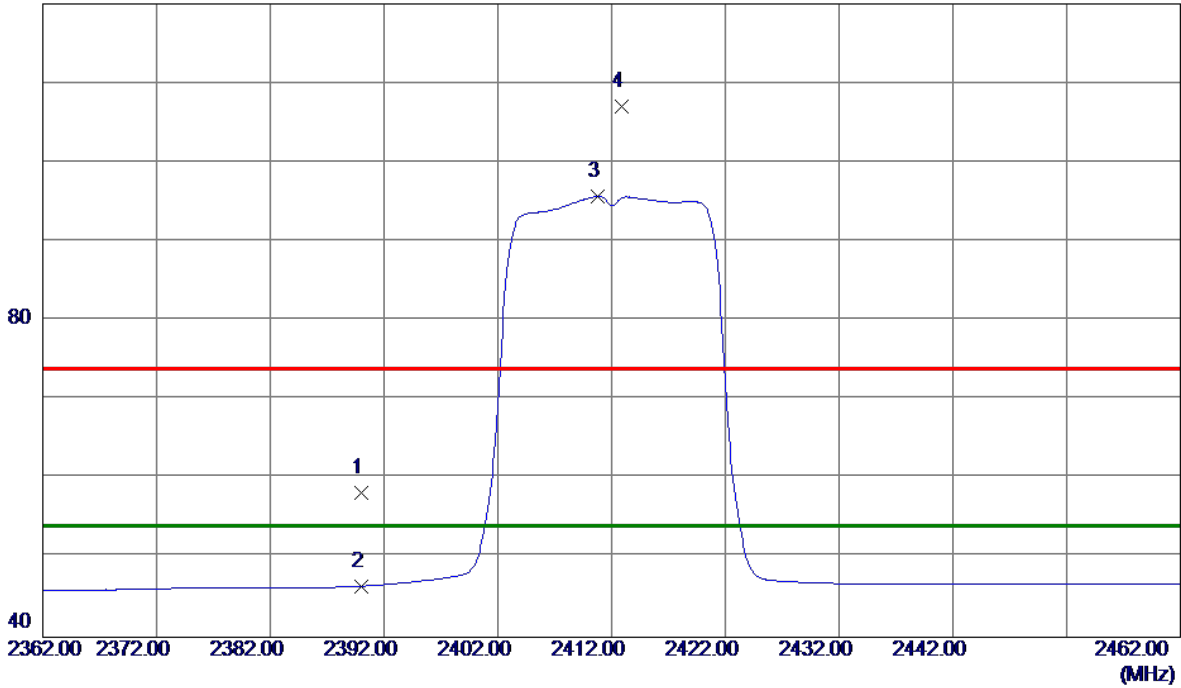


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.2000	42.83	7.02	49.85	74.00	-24.15	Peak	
2 *	4924.8920	30.86	7.02	37.88	54.00	-16.12	AVG	

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

**Vertical**

120 dBuV/m



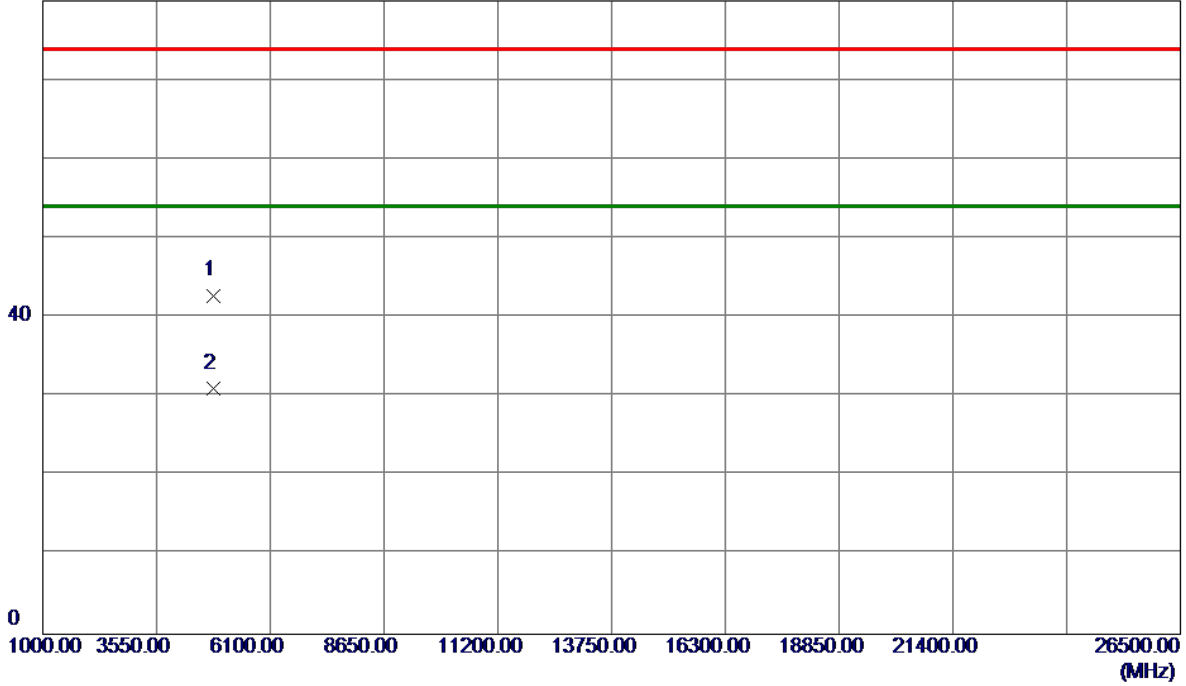
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.18	33.06	58.24	74.00	-15.76	Peak	
2	2390.0000	13.40	33.06	46.46	54.00	-7.54	AVG	
3 *	2410.8000	62.56	33.13	95.69	54.00	41.69	AVG	No Limit
4	2412.9000	73.89	33.14	107.03	74.00	33.03	Peak	No Limit



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

**Vertical**

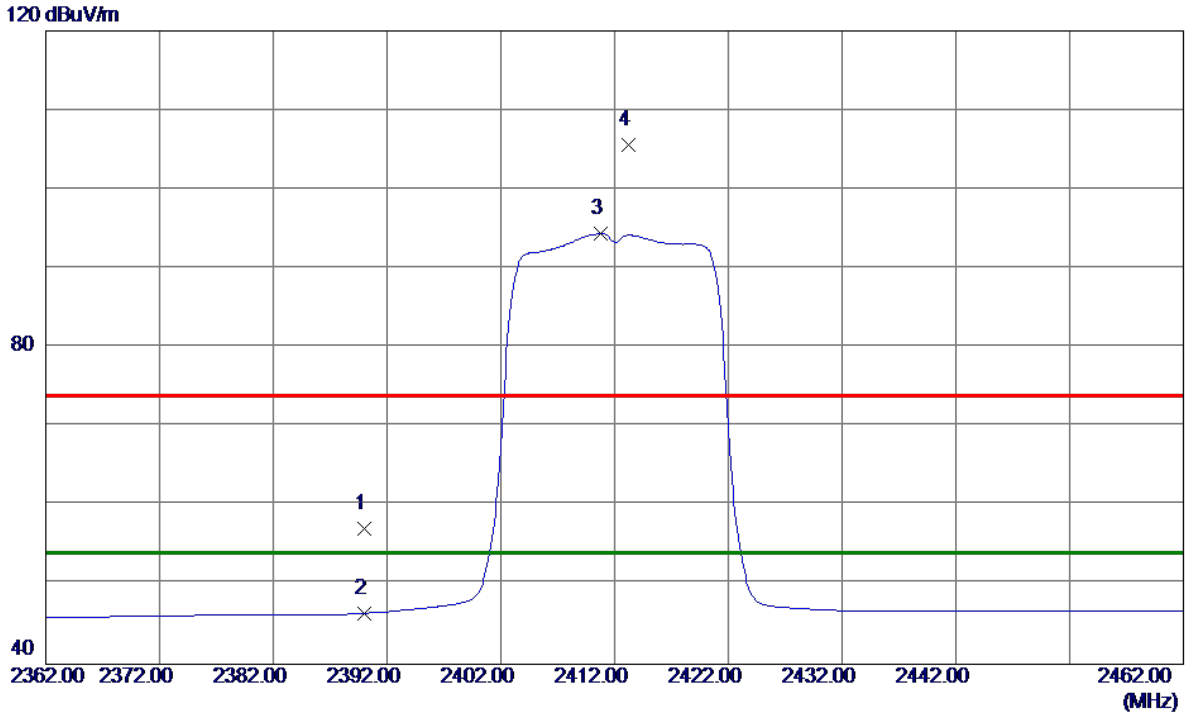
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.0820	36.15	6.65	42.80	74.00	-31.20	Peak	
2 *	4823.7639	24.37	6.66	31.03	54.00	-22.97	AVG	

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

### Horizontal

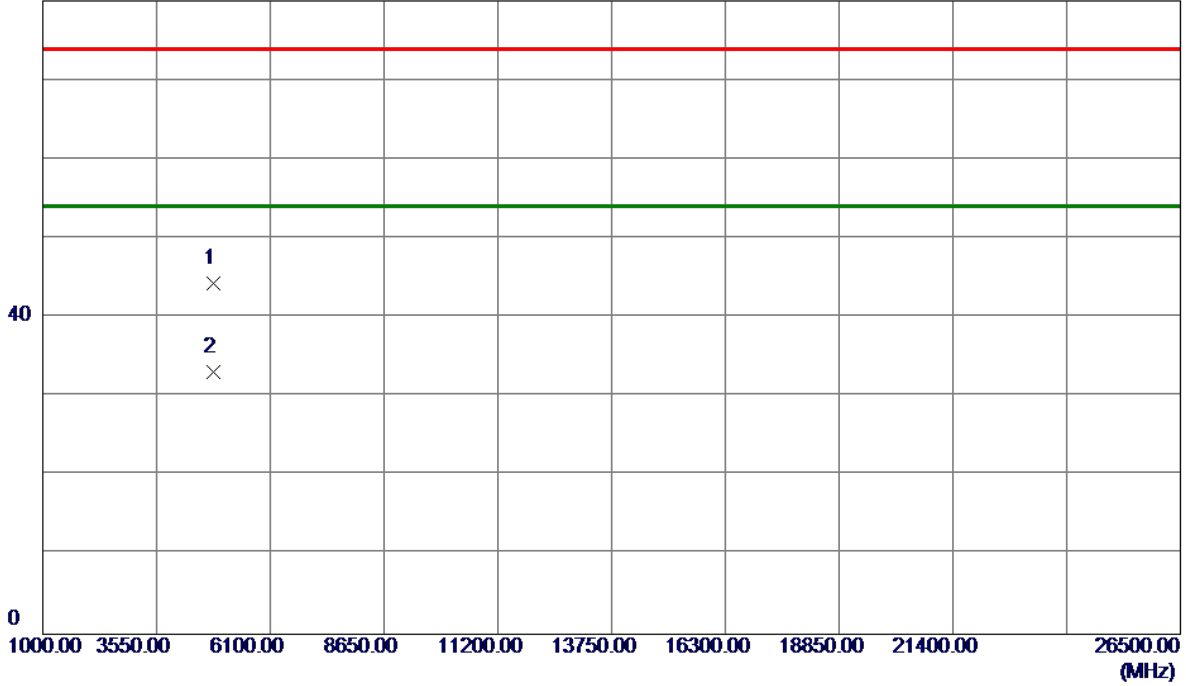


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.13	33.06	57.19	74.00	-16.81	Peak	
2	2390.0000	13.37	33.06	46.43	54.00	-7.57	AVG	
3 *	2410.8000	61.28	33.13	94.41	54.00	40.41	AVG	No Limit
4	2413.2000	72.53	33.14	105.67	74.00	31.67	Peak	No Limit

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

### Horizontal

80 dBuV/m

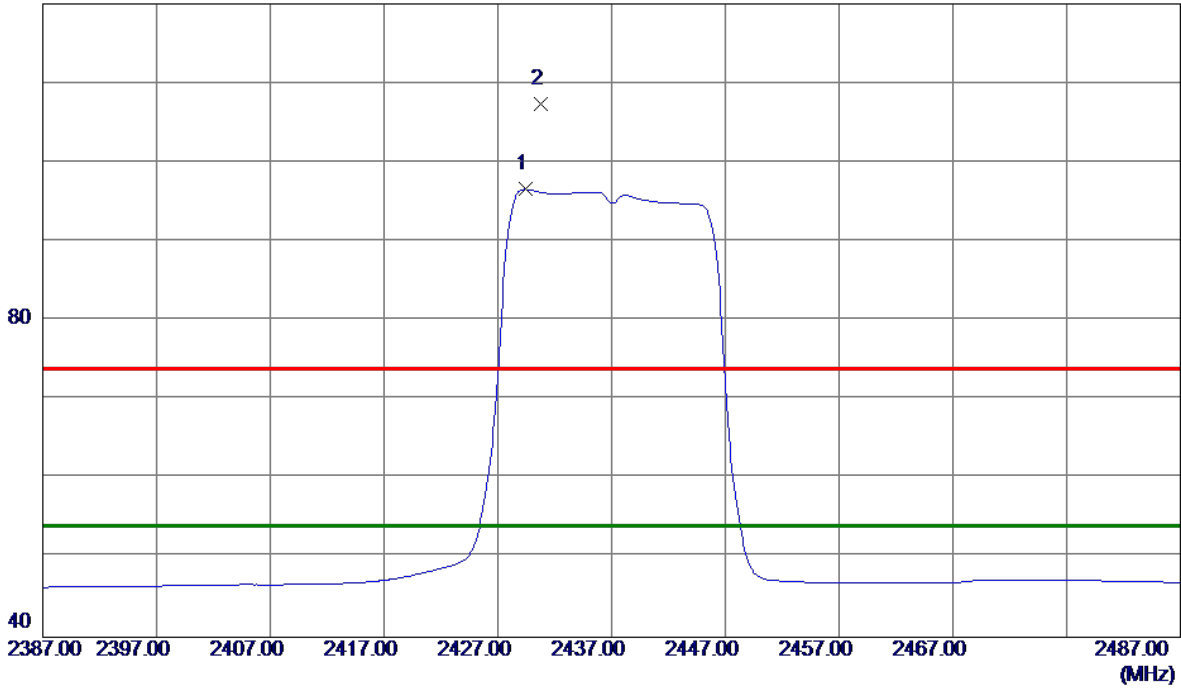


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.4460	37.63	6.66	44.29	74.00	-29.71	Peak	
2 *	4824.0339	26.46	6.66	33.12	54.00	-20.88	AVG	

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

**Vertical**

120 dBuV/m

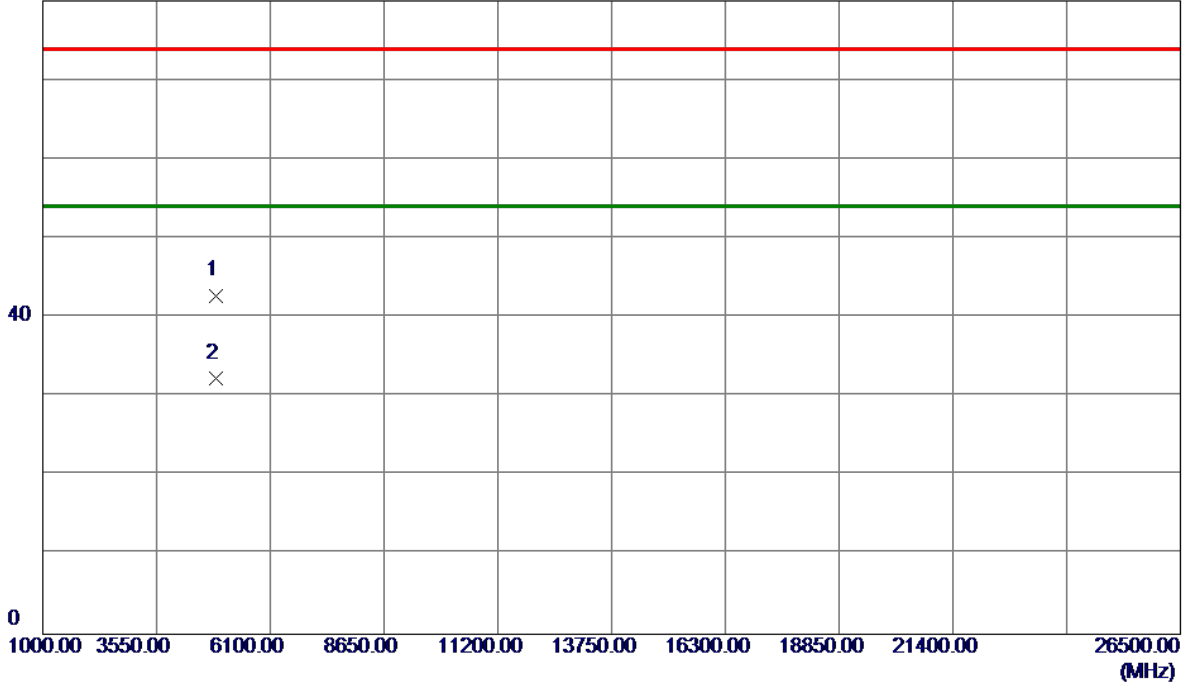


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2429.4000	63.37	33.20	96.57	54.00	42.57	AVG	
2	2430.8000	74.20	33.21	107.41	74.00	33.41	Peak	

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

**Vertical**

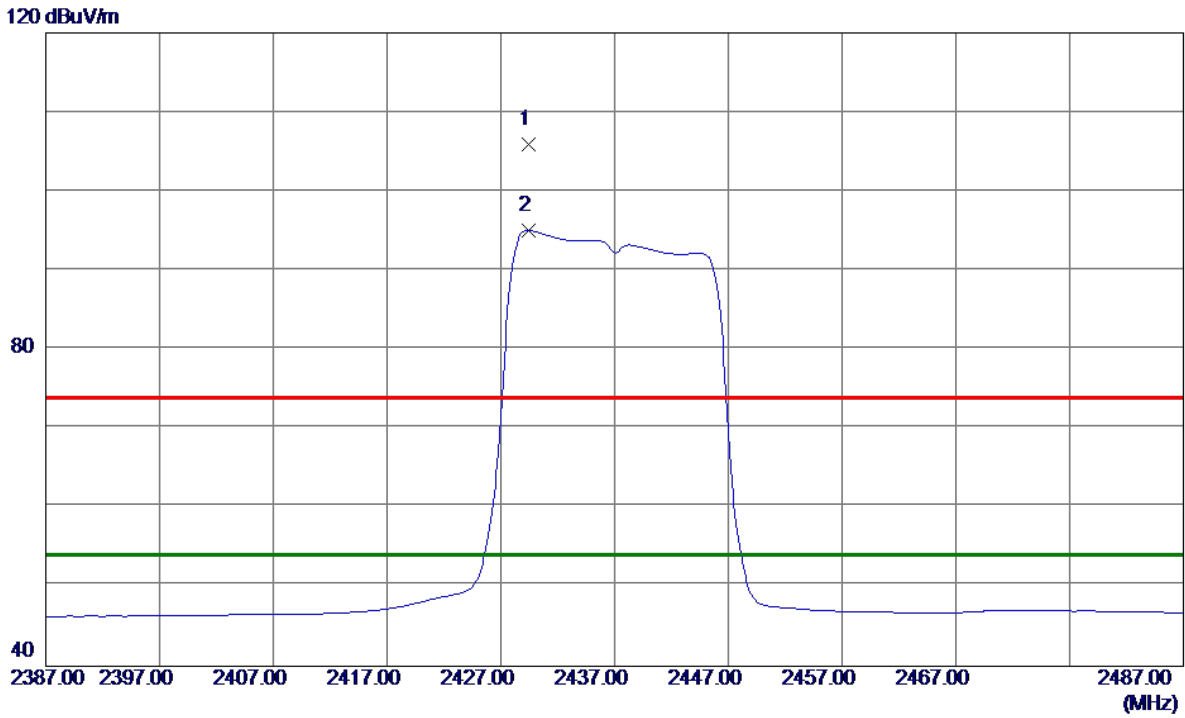
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.4140	35.96	6.84	42.80	74.00	-31.20	Peak	
2 *	4874.0680	25.42	6.84	32.26	54.00	-21.74	AVG	

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

### Horizontal

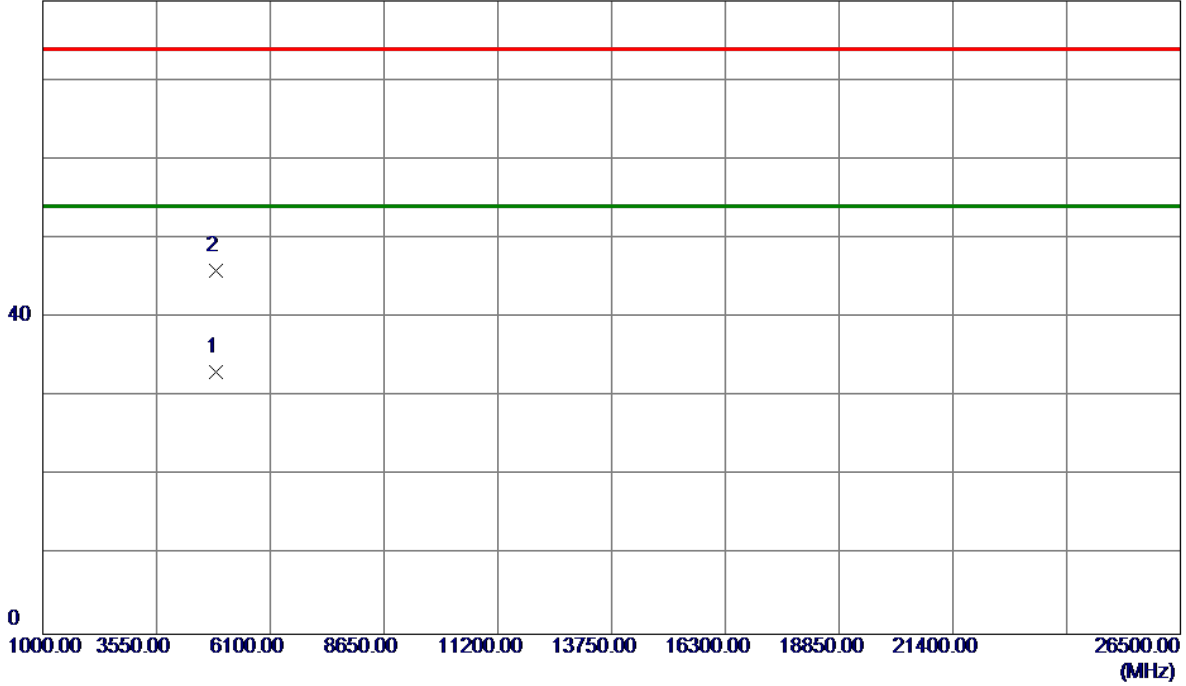


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2429.4000	72.67	33.20	105.87	74.00	31.87	Peak	No Limit
2 *	2429.4000	61.84	33.20	95.04	54.00	41.04	AVG	No Limit

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

### Horizontal

80 dBuV/m

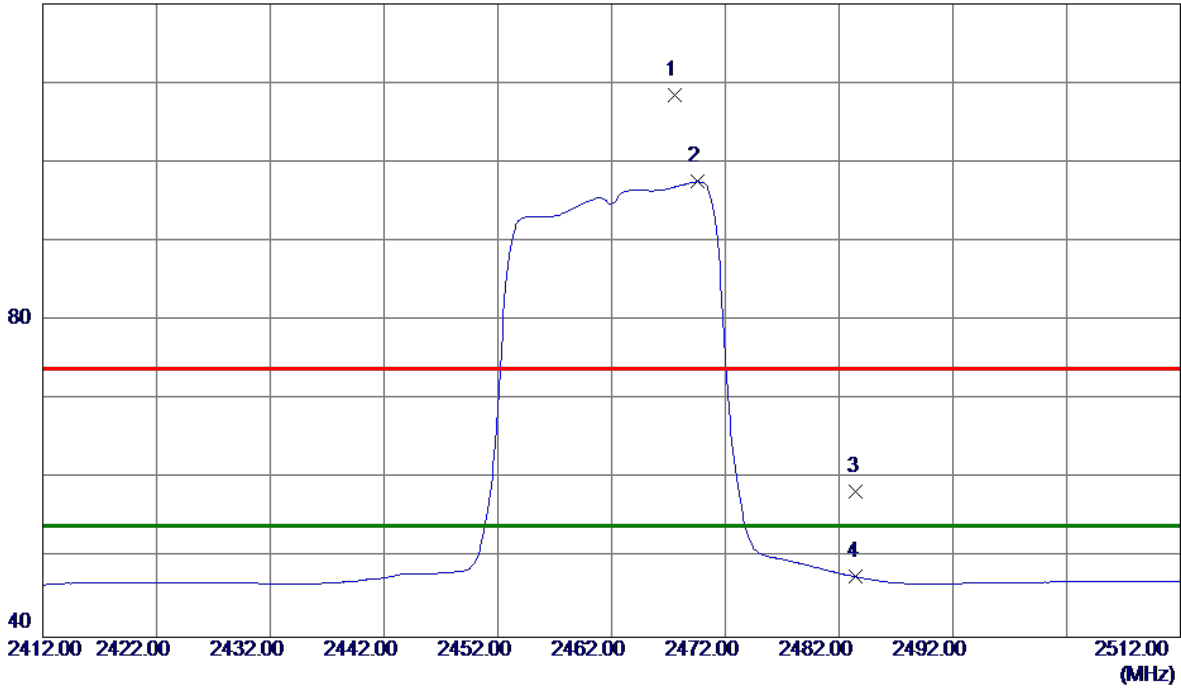


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8280	26.33	6.84	33.17	54.00	-20.83	AVG	
2	4874.3000	39.11	6.84	45.95	74.00	-28.05	Peak	

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

**Vertical**

120 dBuV/m



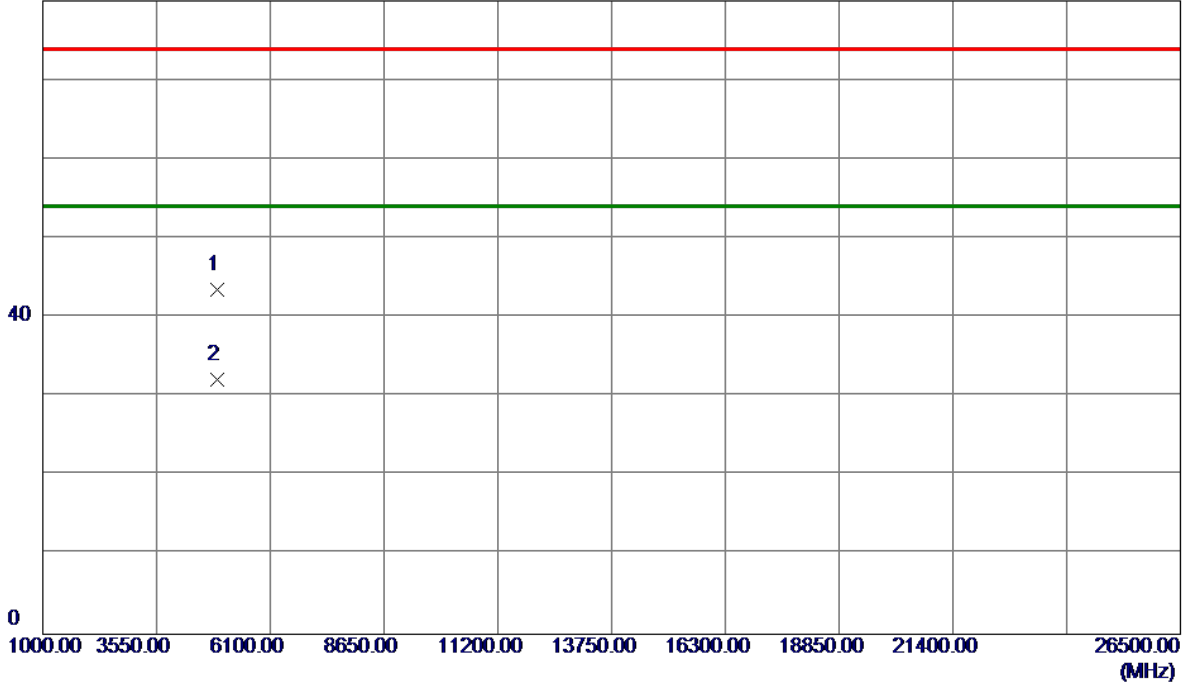
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2467.6000	75.15	33.35	108.50	74.00	34.50	Peak	No Limit
2 *	2469.6000	64.18	33.36	97.54	54.00	43.54	AVG	No Limit
3	2483.5000	25.04	33.41	58.45	74.00	-15.55	Peak	
4	2483.5000	14.22	33.41	47.63	54.00	-6.37	AVG	



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

**Vertical**

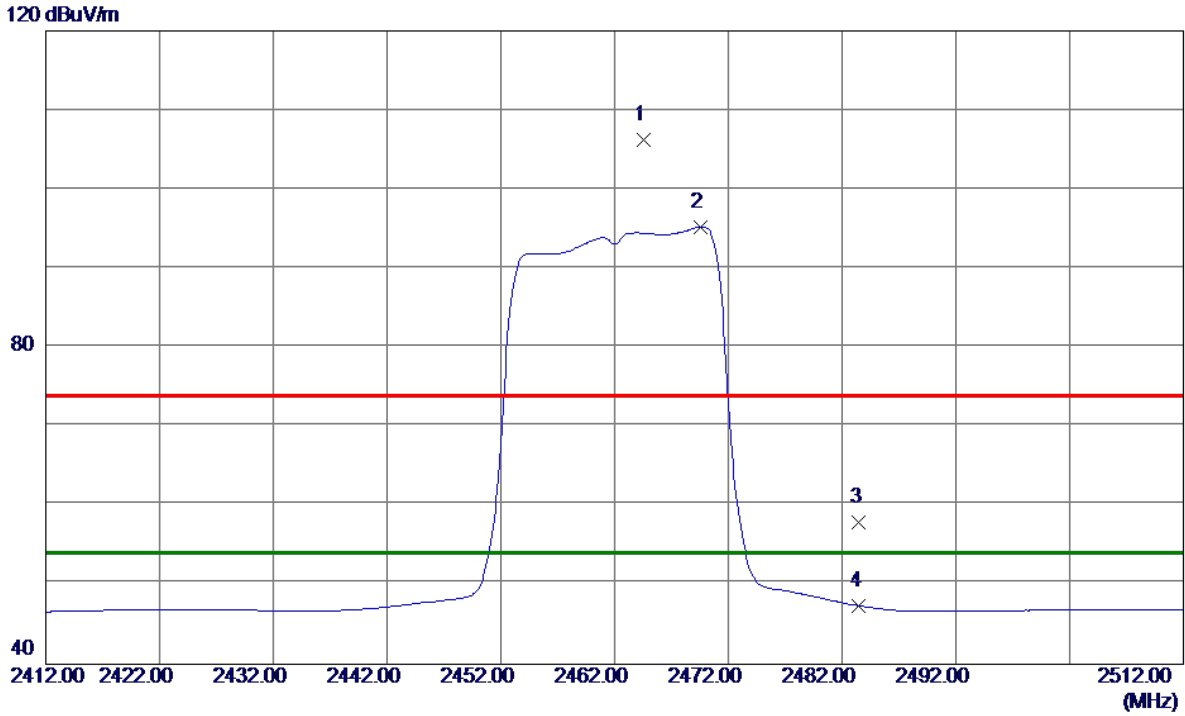
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7440	36.53	7.02	43.55	74.00	-30.45	Peak	
2 *	4923.9420	25.07	7.02	32.09	54.00	-21.91	AVG	

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

### Horizontal

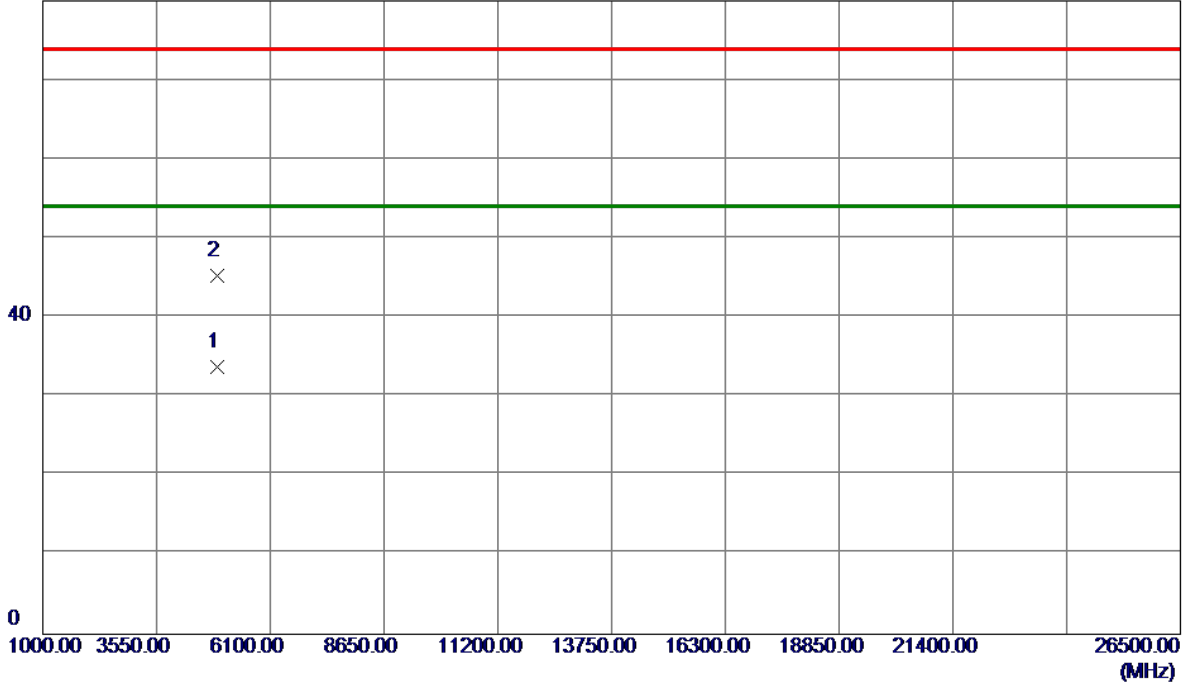


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.6000	72.87	33.34	106.21	74.00	32.21	Peak	No Limit
2 *	2469.6000	61.88	33.36	95.24	54.00	41.24	AVG	No Limit
3	2483.5000	24.46	33.41	57.87	74.00	-16.13	Peak	
4	2483.5000	13.98	33.41	47.39	54.00	-6.61	AVG	

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

### Horizontal

80 dBuV/m

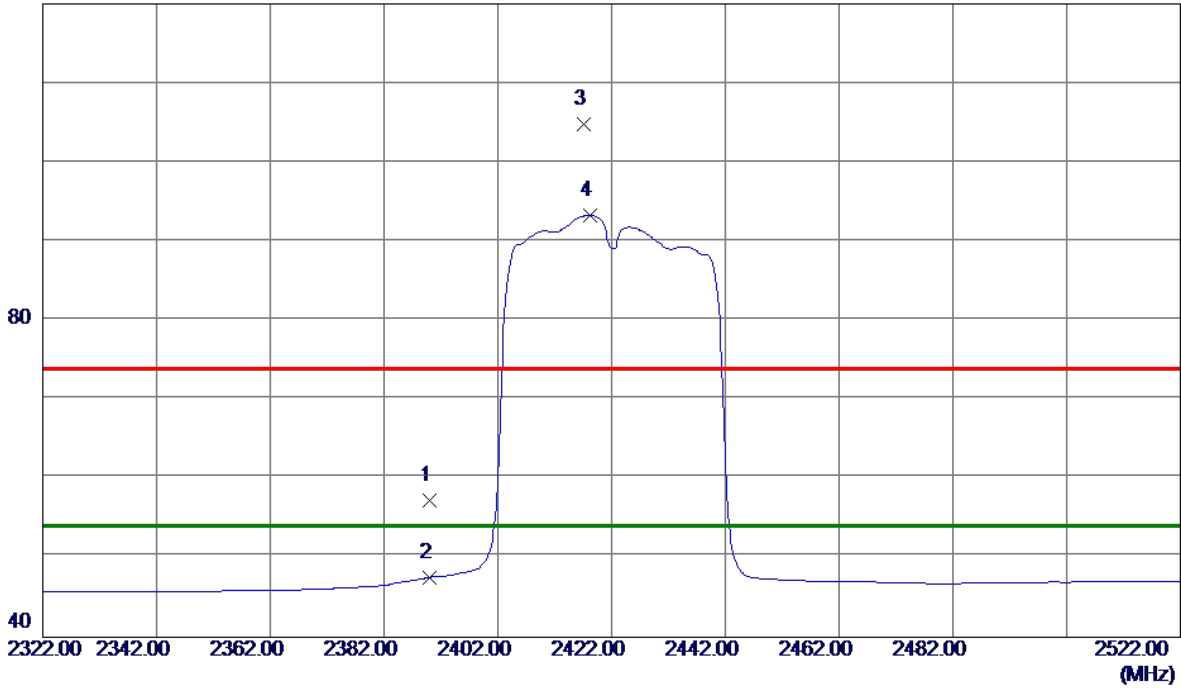


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9960	26.68	7.02	33.70	54.00	-20.30	AVG	
2	4924.1660	38.26	7.02	45.28	74.00	-28.72	Peak	

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

**Vertical**

120 dBuV/m

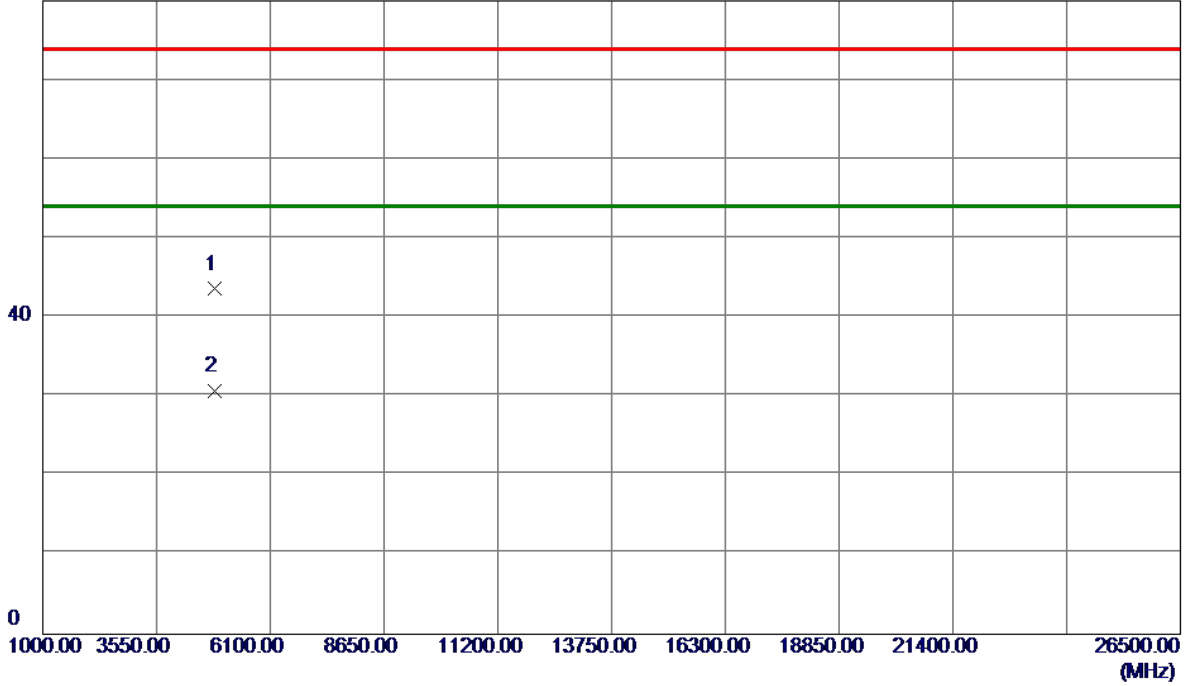


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.27	33.06	57.33	74.00	-16.67	Peak	
2	2390.0000	14.49	33.06	47.55	54.00	-6.45	AVG	
3	2417.2000	71.64	33.16	104.80	74.00	30.80	Peak	No Limit
4 *	2418.2000	60.11	33.16	93.27	54.00	39.27	AVG	No Limit

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

**Vertical**

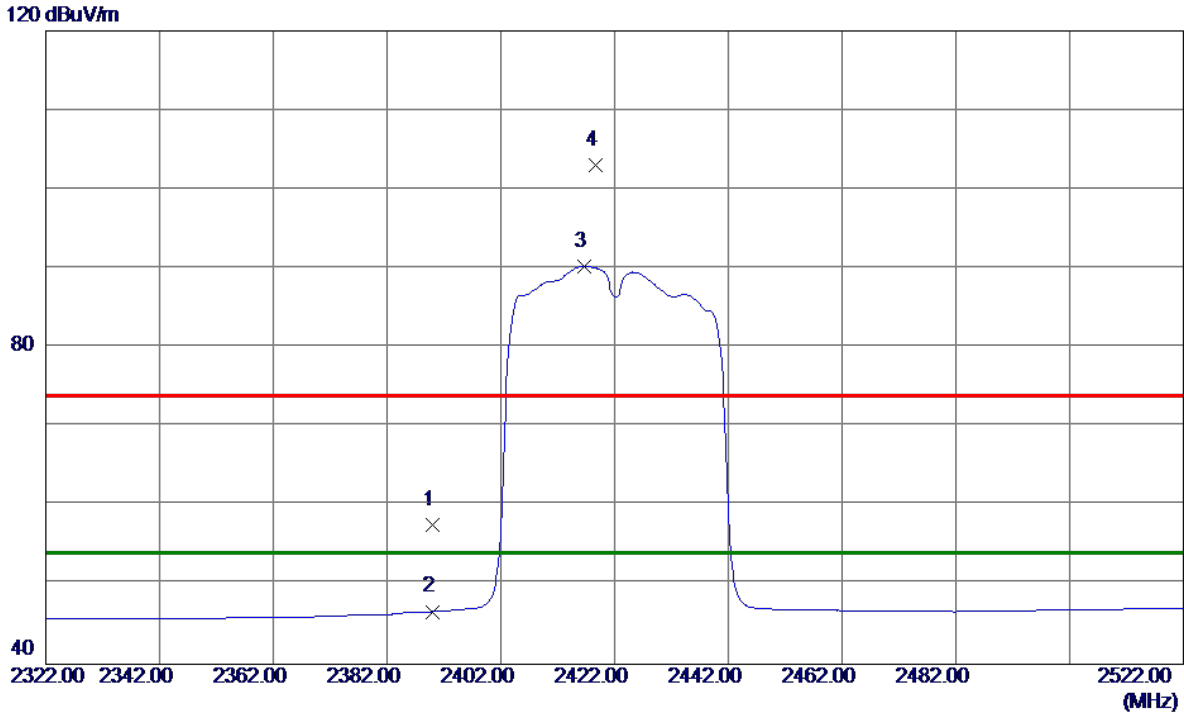
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.7260	36.87	6.73	43.60	74.00	-30.40	Peak	
2 *	4844.1240	24.02	6.73	30.75	54.00	-23.25	AVG	

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

**Horizontal**

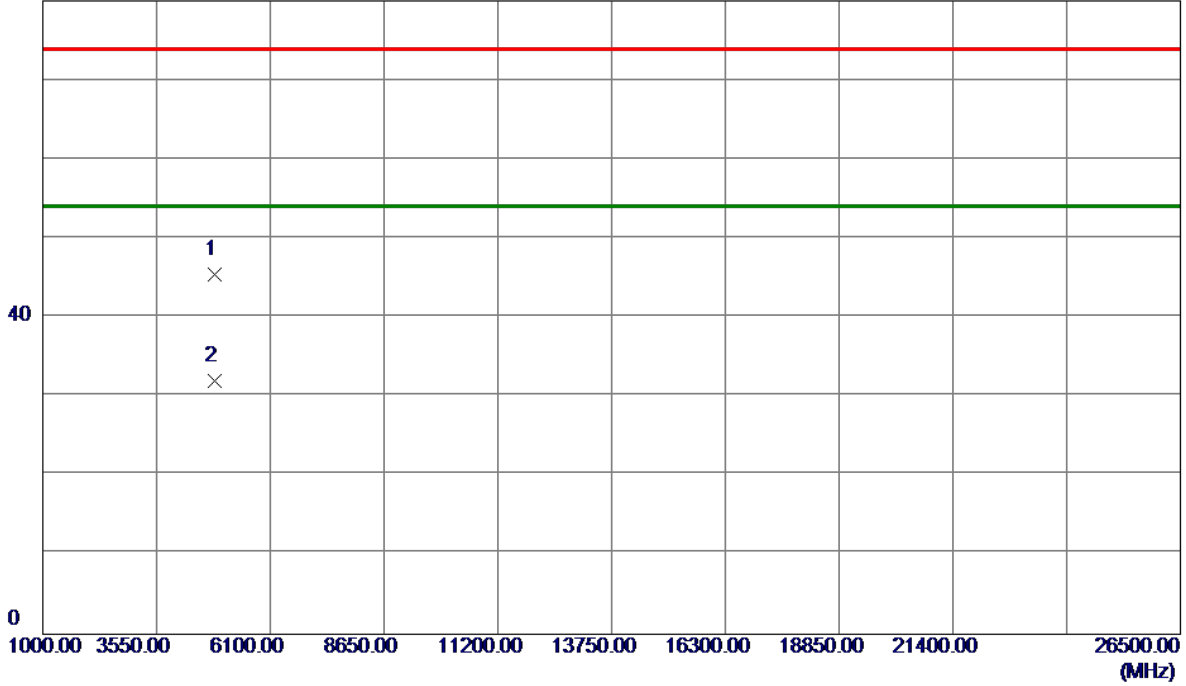


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.59	33.06	57.65	74.00	-16.35	Peak	
2	2390.0000	13.58	33.06	46.64	54.00	-7.36	AVG	
3 *	2416.6000	57.15	33.16	90.31	54.00	36.31	AVG	No Limit
4	2418.6000	69.84	33.16	103.00	74.00	29.00	Peak	No Limit

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

### Horizontal

80 dBuV/m

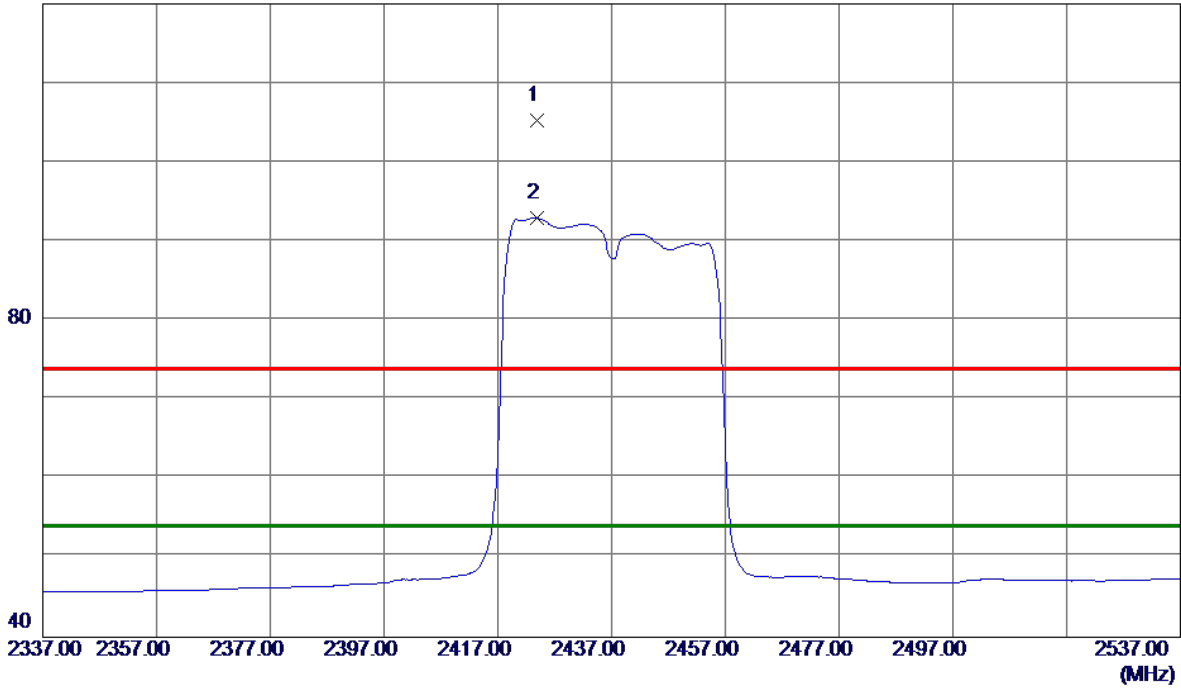


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.2799	38.72	6.73	45.45	74.00	-28.55	Peak	
2 *	4843.9500	25.33	6.73	32.06	54.00	-21.94	AVG	

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

**Vertical**

120 dBuV/m



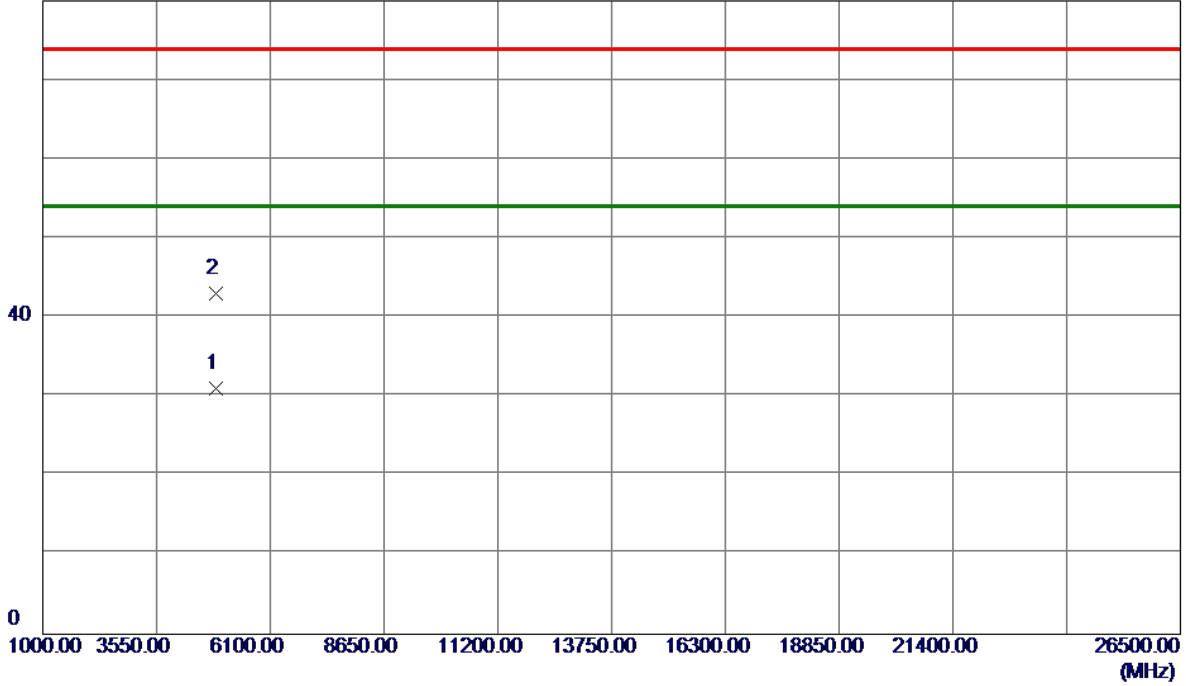
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2423.8000	72.17	33.18	105.35	74.00	31.35	Peak	No Limit
2 *	2423.8000	59.78	33.18	92.96	54.00	38.96	AVG	No Limit



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

**Vertical**

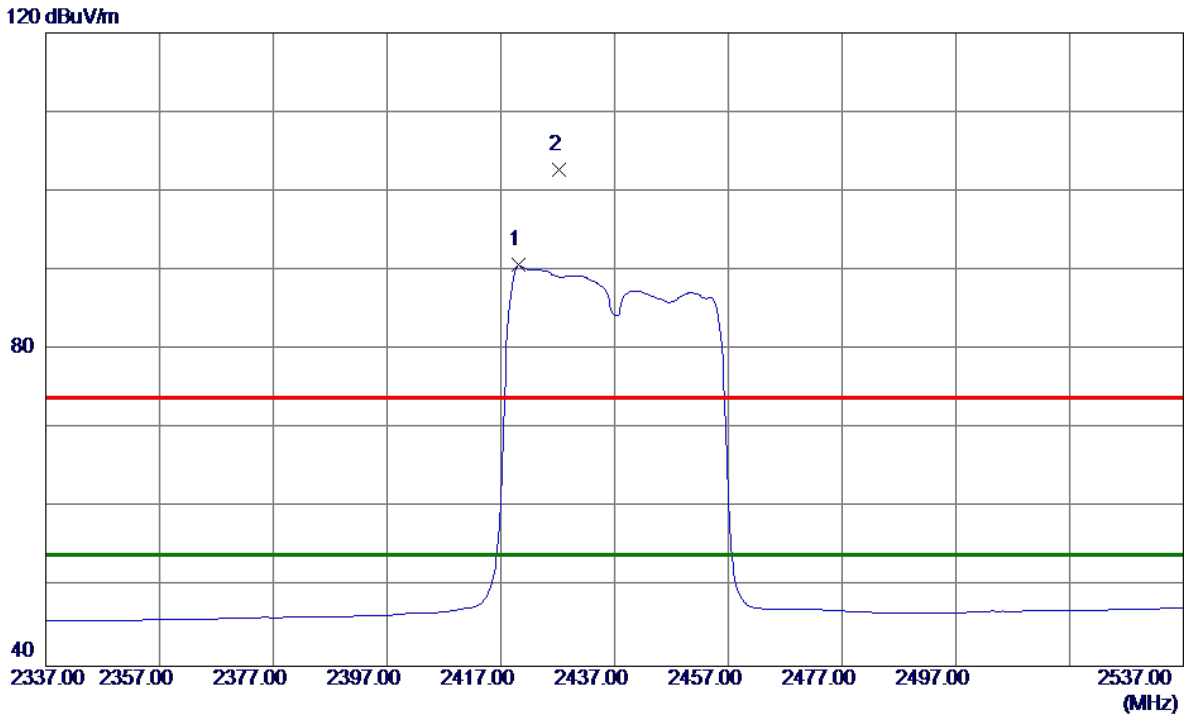
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.9260	24.21	6.84	31.05	54.00	-22.95	AVG	
2	4873.5700	36.24	6.84	43.08	74.00	-30.92	Peak	

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

**Horizontal**

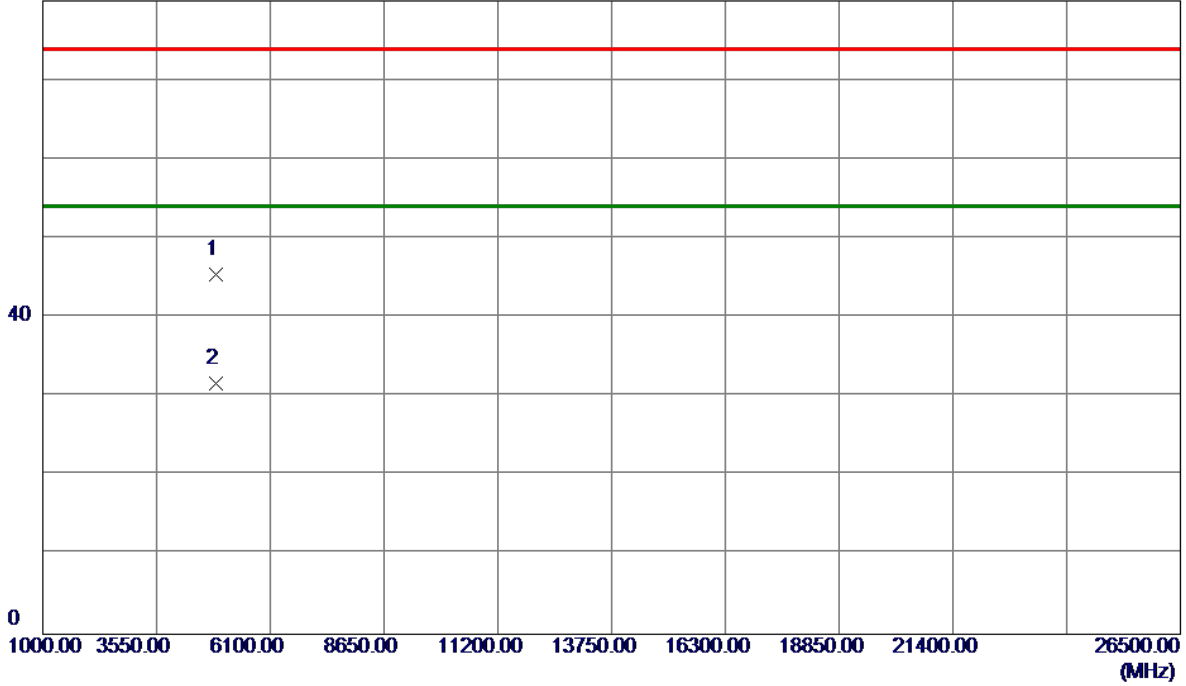


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2420.2000	57.49	33.17	90.66	54.00	36.66	AVG	No Limit
2	2427.2000	69.54	33.20	102.74	74.00	28.74	Peak	No Limit

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

**Horizontal**

80 dBuV/m

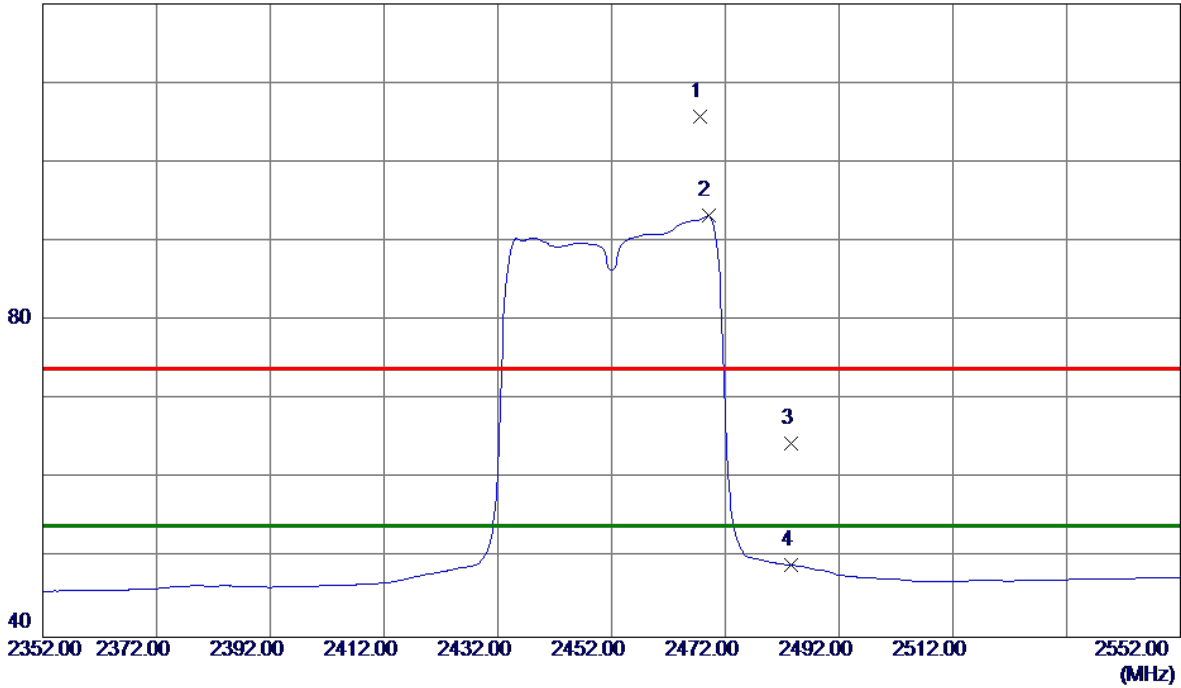


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6960	38.60	6.84	45.44	74.00	-28.56	Peak	
2 *	4873.9120	24.78	6.84	31.62	54.00	-22.38	AVG	

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

**Vertical**

120 dBuV/m

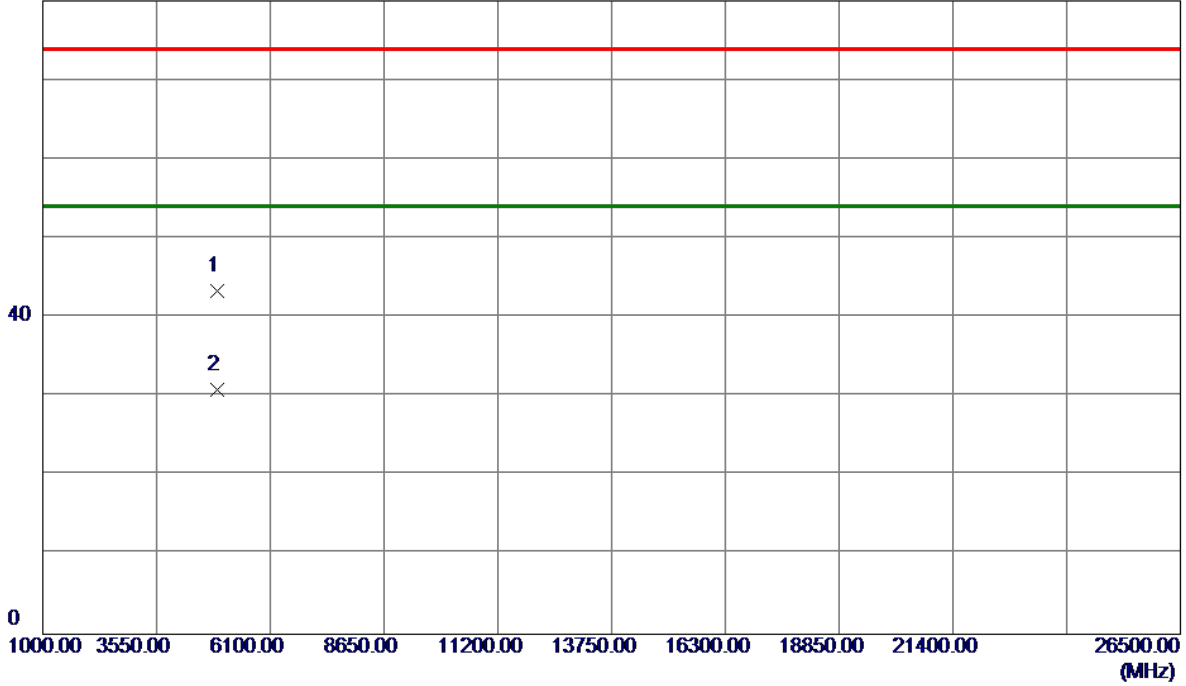


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2467.6000	72.47	33.35	105.82	74.00	31.82	Peak	No Limit
2 *	2469.0000	59.93	33.35	93.28	54.00	39.28	AVG	No Limit
3	2483.5000	31.14	33.41	64.55	74.00	-9.45	Peak	
4	2483.5000	15.69	33.41	49.10	54.00	-4.90	AVG	

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

**Vertical**

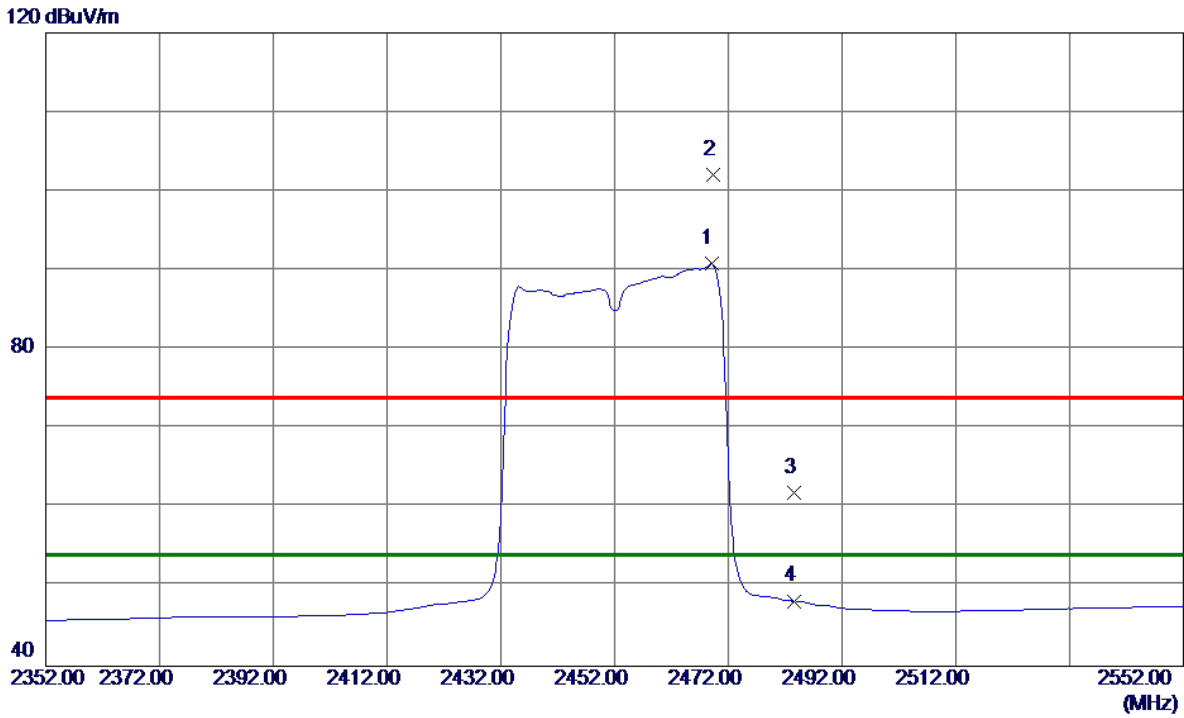
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.6540	36.47	6.94	43.41	74.00	-30.59	Peak	
2 *	4904.8160	24.00	6.95	30.95	54.00	-23.05	AVG	

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

**Horizontal**

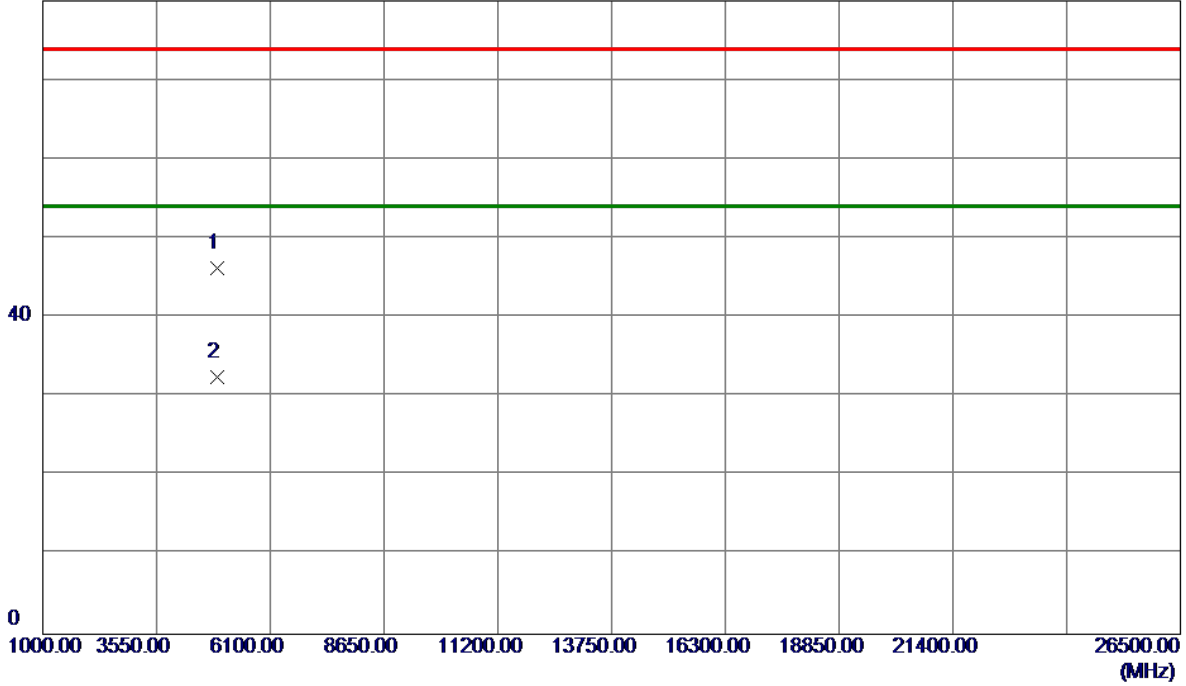


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2469.0000	57.47	33.35	90.82	54.00	36.82	AVG	No Limit
2	2469.4000	68.73	33.35	102.08	74.00	28.08	Peak	No Limit
3	2483.5000	28.47	33.41	61.88	74.00	-12.12	Peak	
4	2483.5000	14.83	33.41	48.24	54.00	-5.76	AVG	

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

**Horizontal**

80 dBuV/m

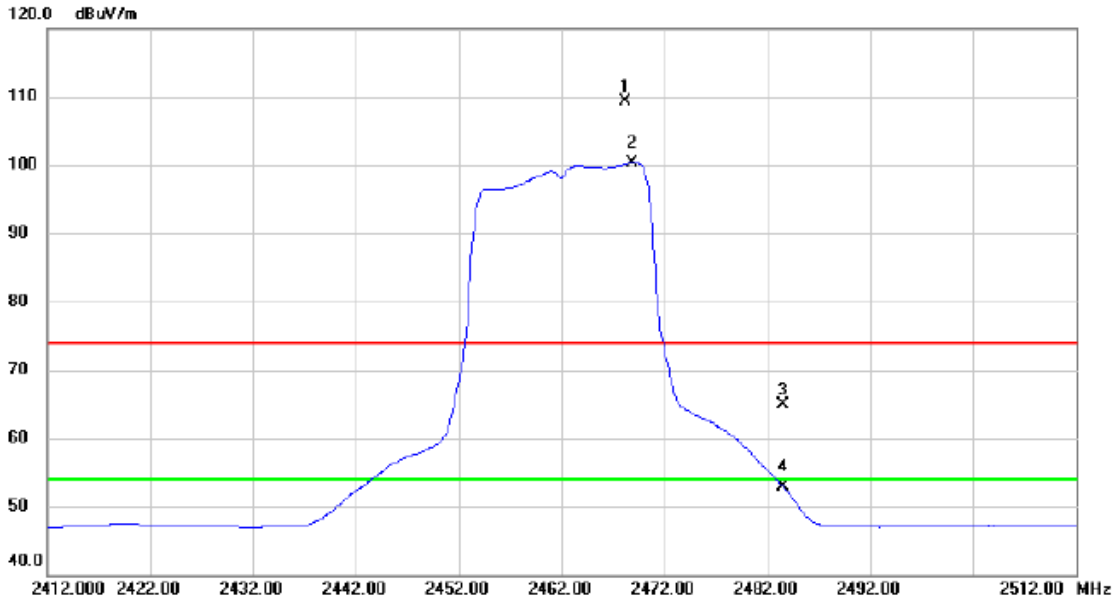


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.6760	39.33	6.94	46.27	74.00	-27.73	Peak	
2 *	4903.8980	25.61	6.94	32.55	54.00	-21.45	AVG	

For Model: MG7700XY with adapter: S36B52-120A250-04)

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

Vertical

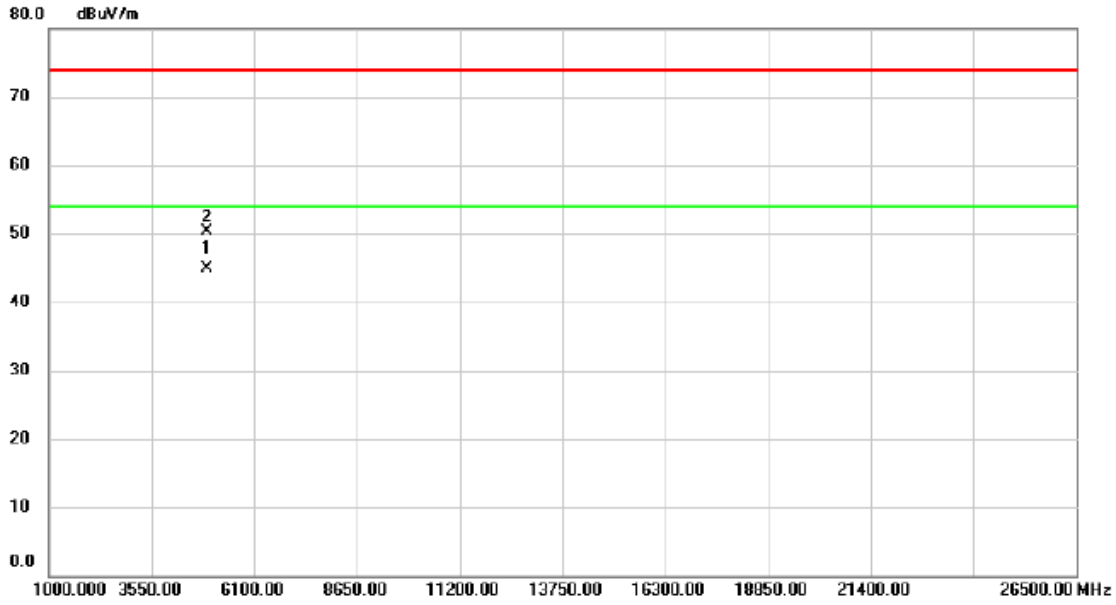


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2468.200	75.99	33.35	109.34	74.00	35.34	peak	No Limit
2	*	2468.900	66.98	33.35	100.33	54.00	46.33	AVG	No Limit
3		2483.500	31.50	33.41	64.91	74.00	-9.09	peak	
4		2483.500	19.59	33.41	53.00	54.00	-1.00	AVG	



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

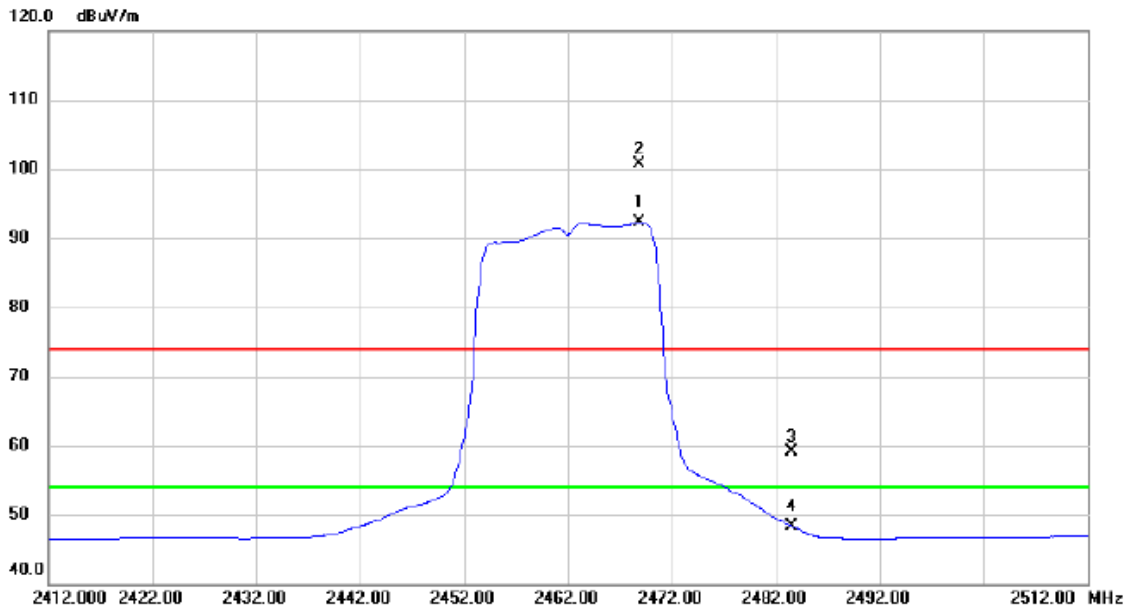
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.925	37.86	7.02	44.88	54.00	-9.12	AVG	
2		4923.940	43.26	7.02	50.28	74.00	-23.72	peak	

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

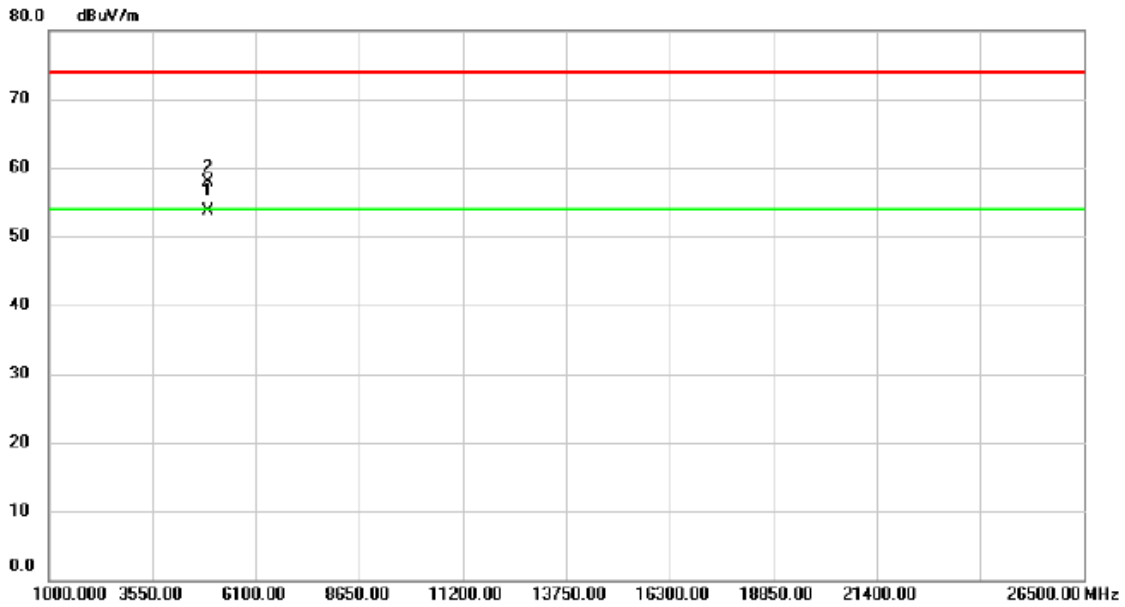
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2468.800	58.88	33.35	92.23	54.00	38.23	AVG	No Limit
2	X	2468.900	67.44	33.35	100.79	74.00	26.79	peak	No Limit
3		2483.500	25.74	33.41	59.15	74.00	-14.85	peak	
4		2483.500	14.98	33.41	48.39	54.00	-5.61	AVG	

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

### Horizontal



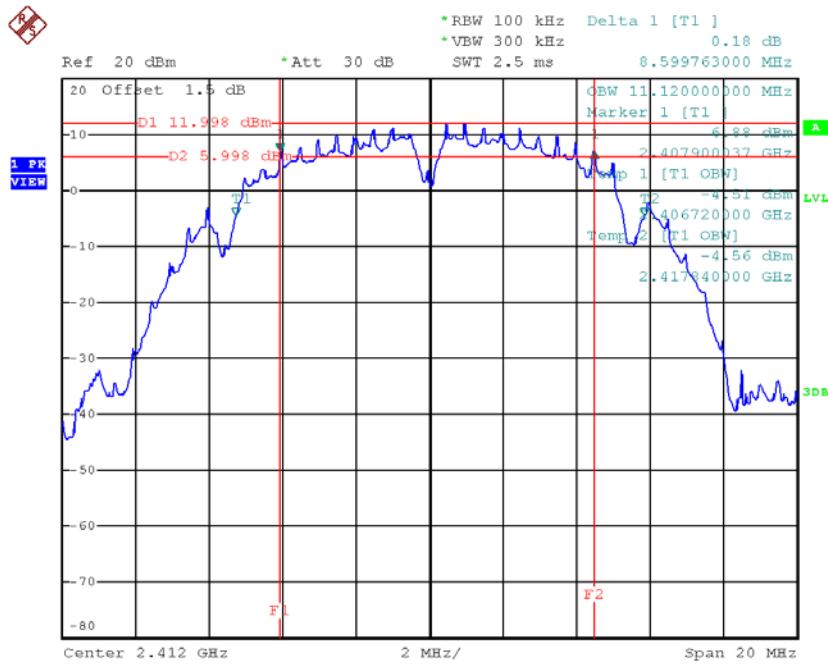
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.925	46.71	7.02	53.73	54.00	-0.27	AVG	
2	4924.120	50.82	7.02	57.84	74.00	-16.16	peak	

## APPENDIX E - BANDWIDTH

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

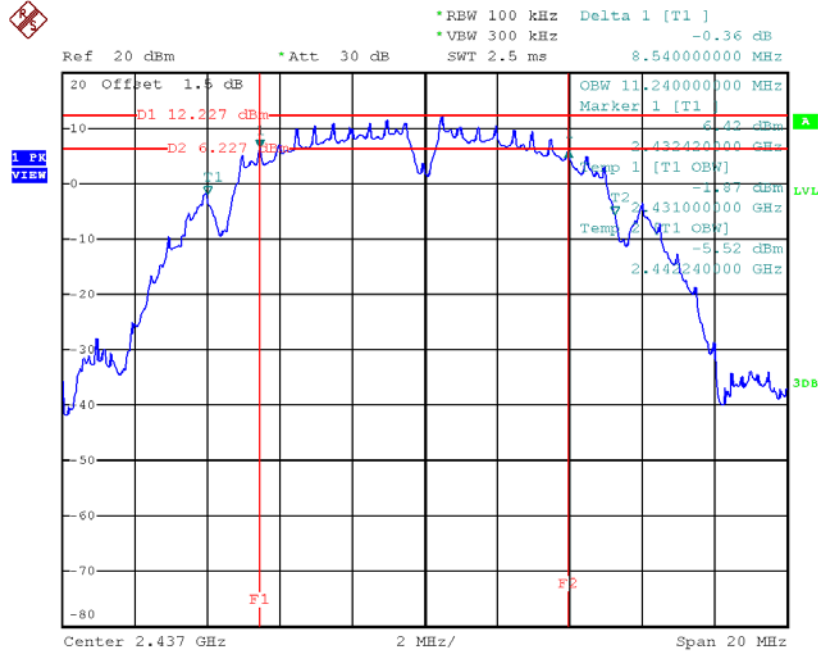
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.60	11.12	500	Complies
2437	8.54	11.24	500	Complies
2462	8.63	11.32	500	Complies

**TX CH01**



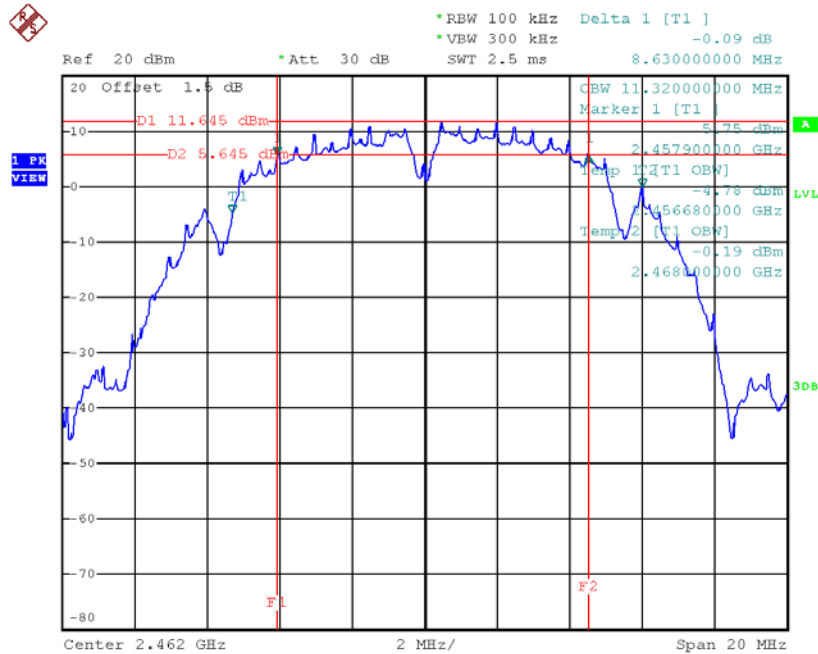
Date: 5.DEC.2017 13:32:47

### TX CH06



Date: 5.DEC.2017 13:35:39

### TX CH11

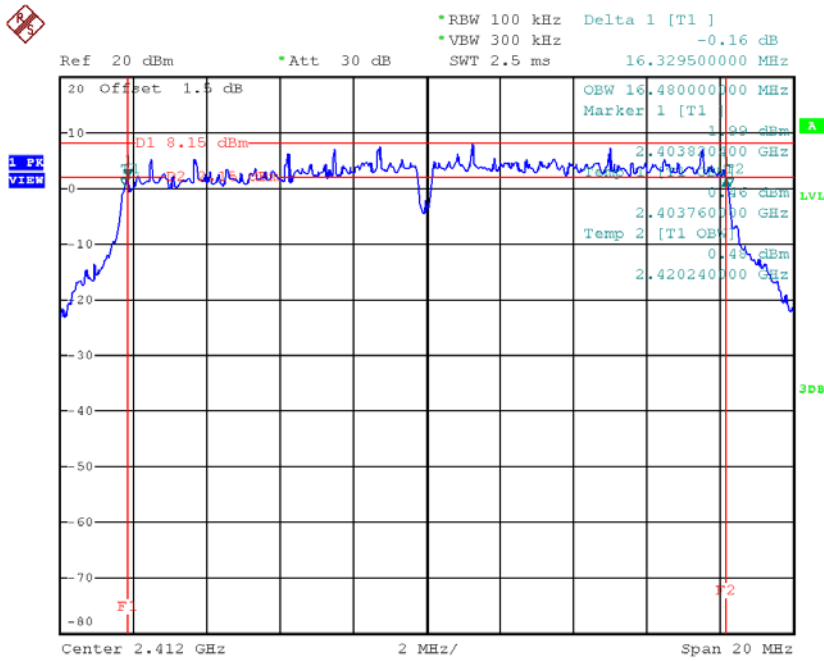


Date: 5.DEC.2017 13:40:40

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

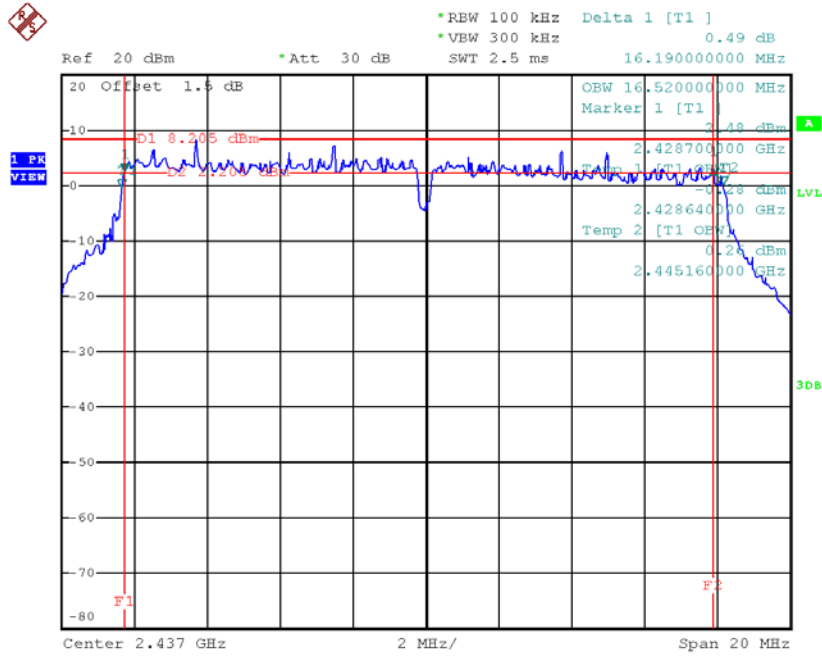
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.33	16.48	500	Complies
2437	16.19	16.52	500	Complies
2462	15.82	16.52	500	Complies

**TX CH01**



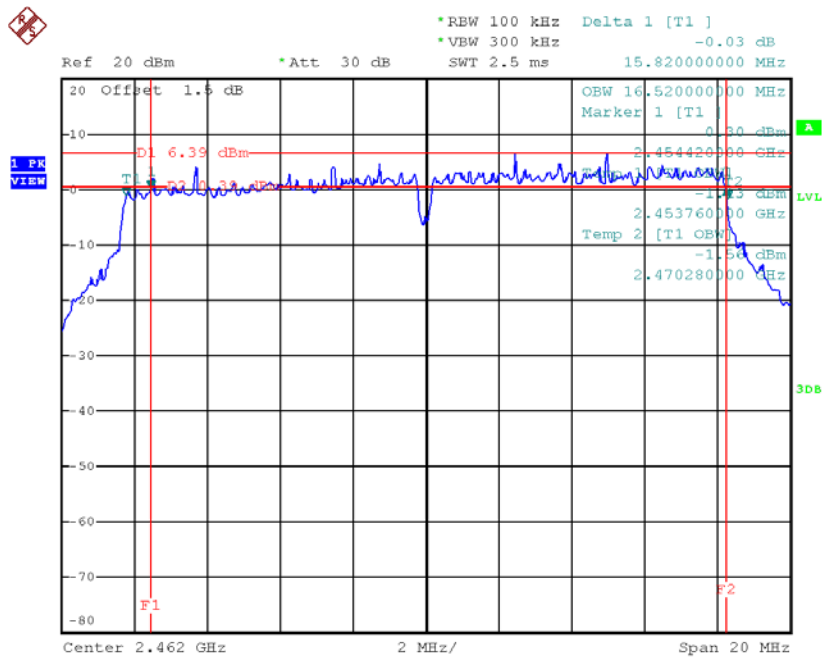
Date: 5.DEC.2017 13:42:50

**TX CH06**



Date: 5.DEC.2017 13:44:09

**TX CH11**



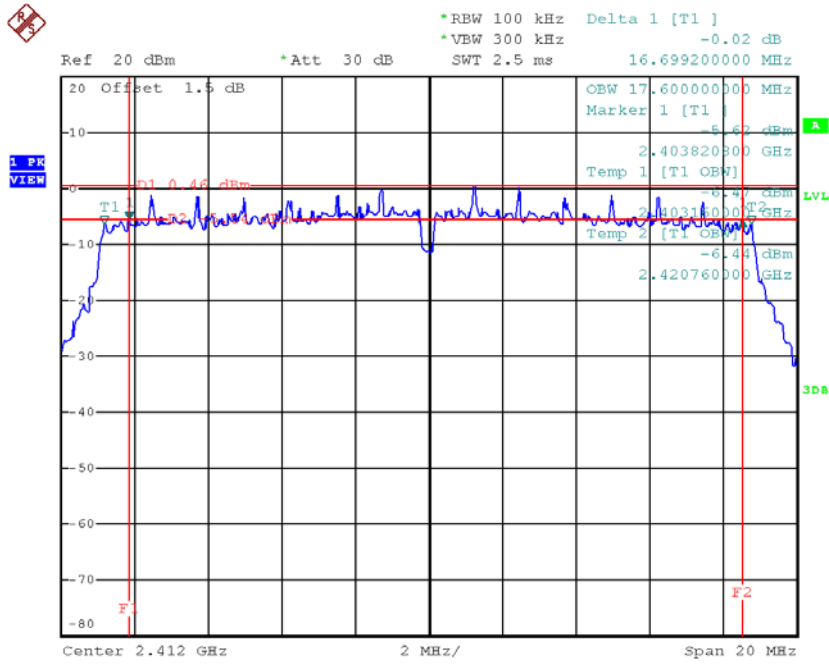
Date: 5.DEC.2017 13:45:30



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

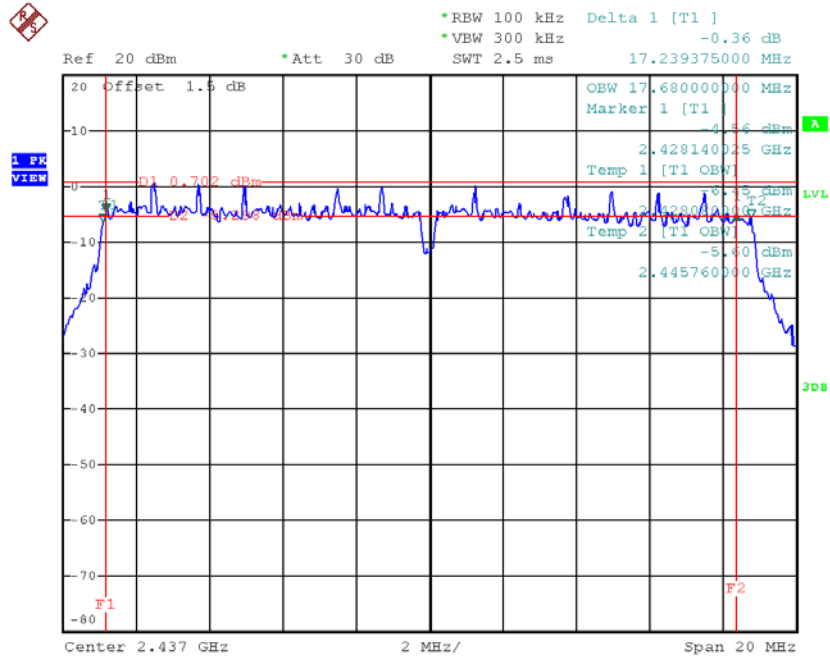
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.70	17.6	500	Complies
2437	17.24	17.68	500	Complies
2462	16.40	17.64	500	Complies

**TX CH01**



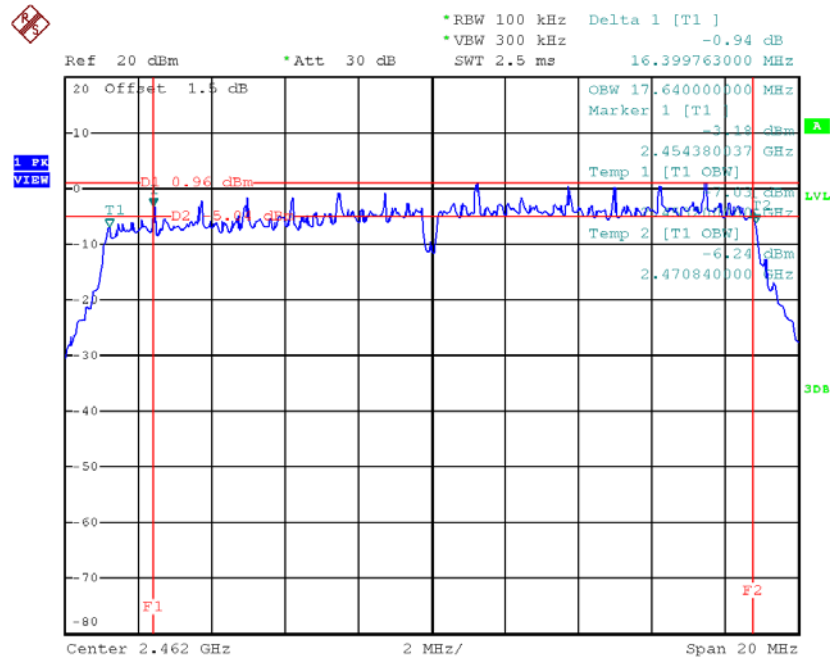
Date: 5.DEC.2017 13:57:07

### TX CH06



Date: 5.DEC.2017 13:58:21

### TX CH11

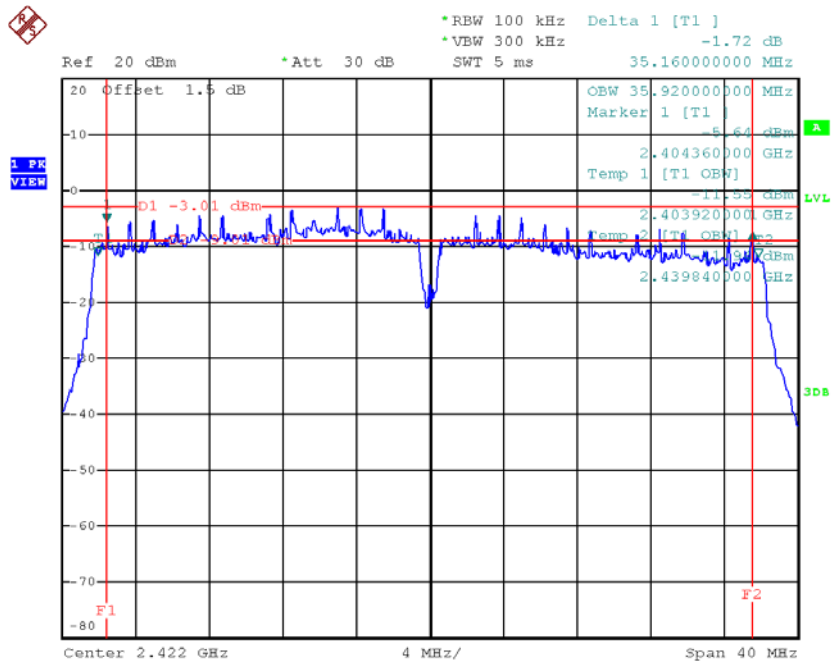


Date: 5.DEC.2017 13:59:43

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

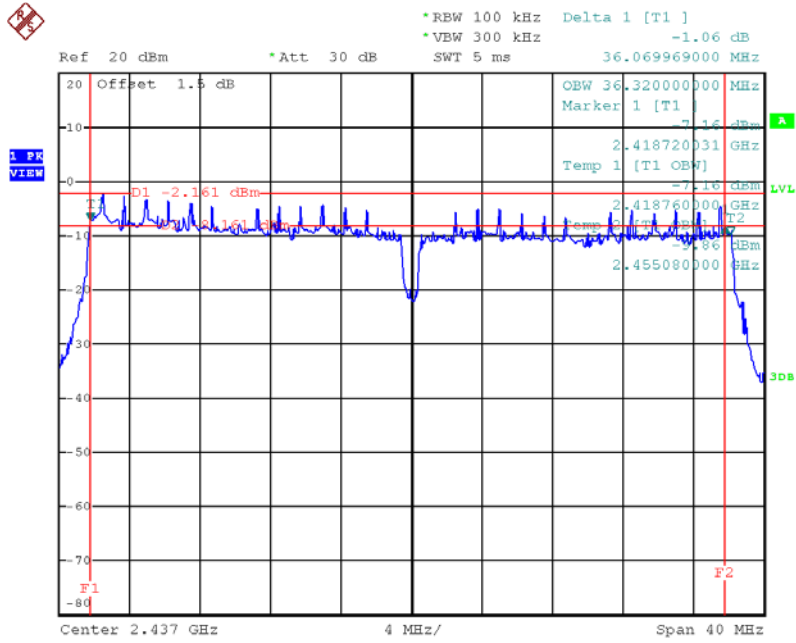
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.16	35.92	500	Complies
2437	36.07	36.32	500	Complies
2452	35.80	36.16	500	Complies

**TX CH03**



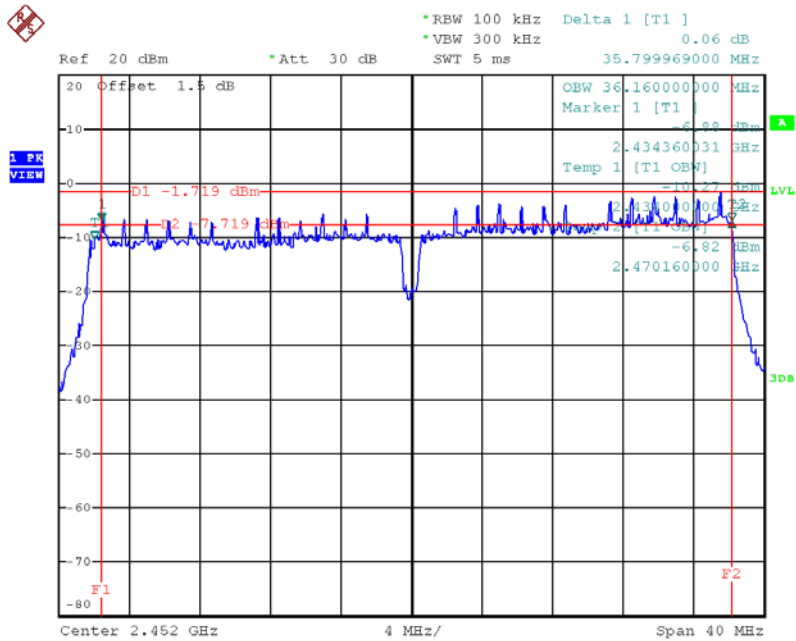
Date: 5.DEC.2017 14:02:55

### TX CH06



Date: 5.DEC.2017 14:04:18

### TX CH09



Date: 5.DEC.2017 14:05:46

# APPENDIX F - MAXIMUM PEAK 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	26.21	0.42	30.00	1.00	Complies
2437	26.43	0.44	30.00	1.00	Complies
2462	26.78	0.48	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	29.55	0.90	30.00	1.00	Complies
2437	29.46	0.88	30.00	1.00	Complies
2462	25.67	0.37	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	22.21	0.17	30.00	1.00	Complies
2437	22.15	0.16	30.00	1.00	Complies
2462	22.11	0.16	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	23.67	0.23	30.00	1.00	Complies
2437	23.43	0.22	30.00	1.00	Complies
2462	23.59	0.23	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.12	0.26	30.00	1.00	Complies
2437	24.29	0.27	30.00	1.00	Complies
2462	24.15	0.26	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	28.18	0.66	28.23	0.67	Complies
2437	28.15	0.65	28.23	0.67	Complies
2462	28.14	0.65	28.23	0.67	Complies

Test Mode :TX N40 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.19	0.13	30.00	1.00	Complies
2437	21.14	0.13	30.00	1.00	Complies
2452	21.38	0.14	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	23.52	0.22	30.00	1.00	Complies
2437	23.45	0.22	30.00	1.00	Complies
2452	23.55	0.23	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	24.62	0.29	30.00	1.00	Complies
2437	24.63	0.29	30.00	1.00	Complies
2452	24.61	0.29	30.00	1.00	Complies

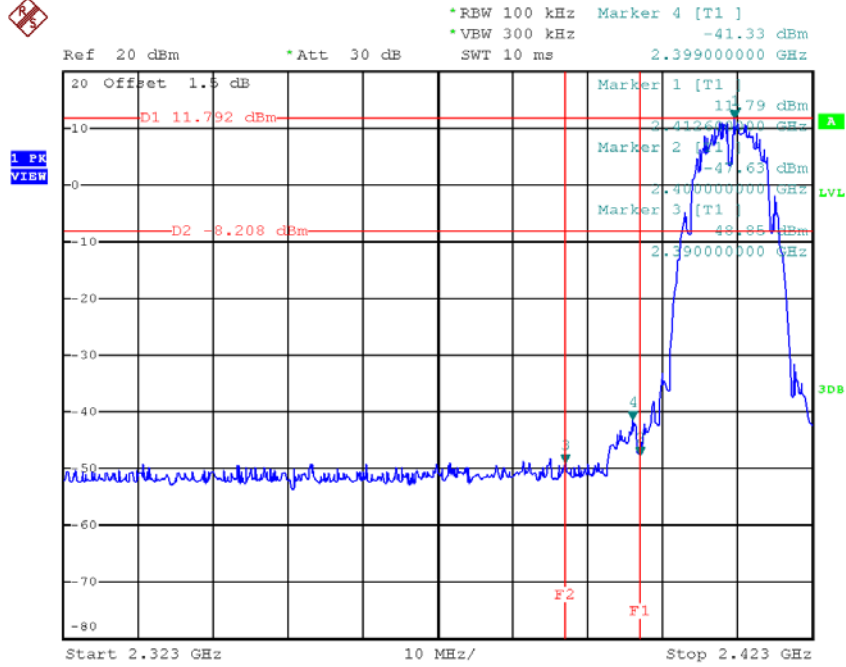
Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	28.10	0.65	28.23	0.67	Complies
2437	28.07	0.64	28.23	0.67	Complies
2452	28.15	0.65	28.23	0.67	Complies



## APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

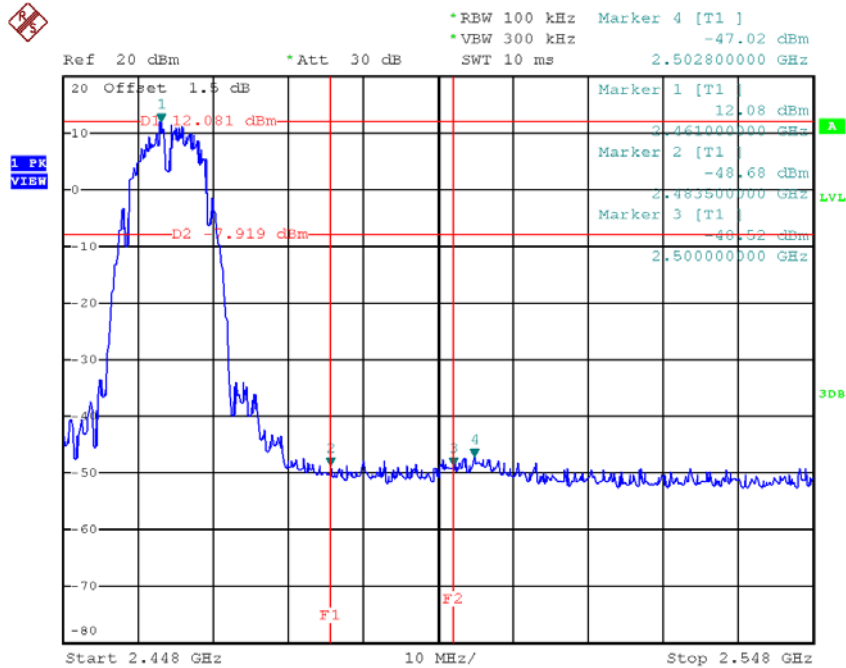
Test Mode : TX B Mode\_ANT 1

**TX B mode CH01**



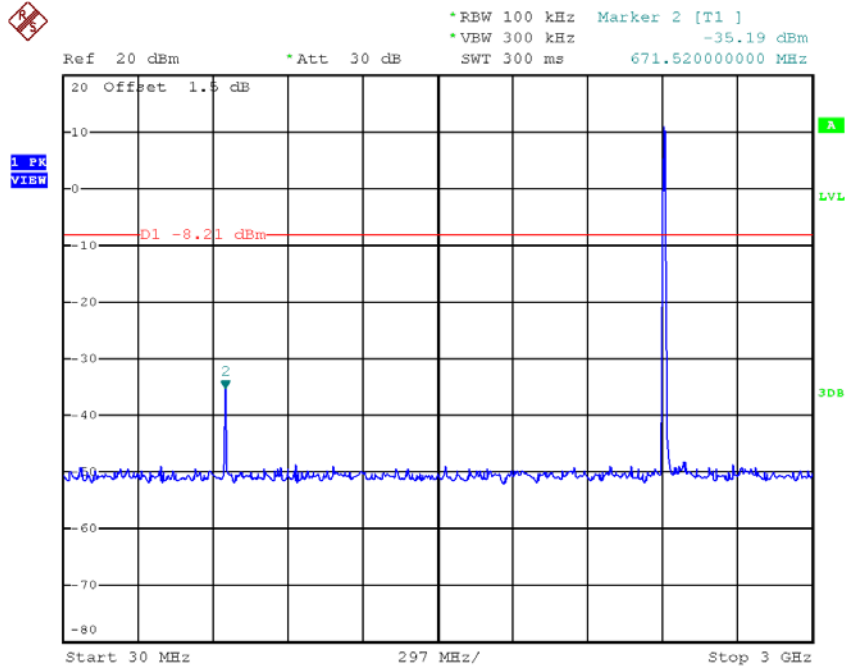
Date: 5.DEC.2017 13:32:54

**TX B mode CH11**

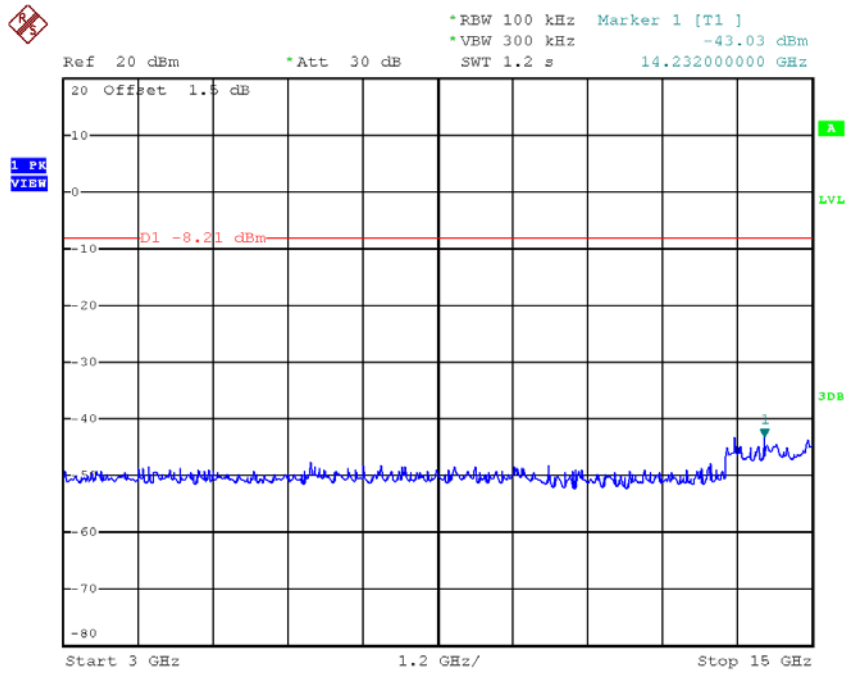


Date: 5.DEC.2017 13:40:47

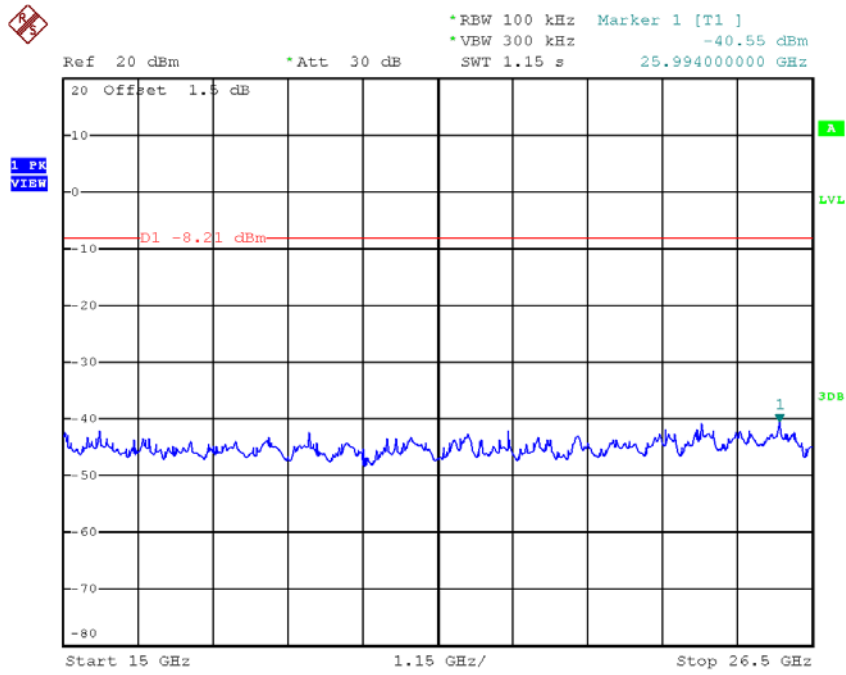
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 5.DEC.2017 13:33:07

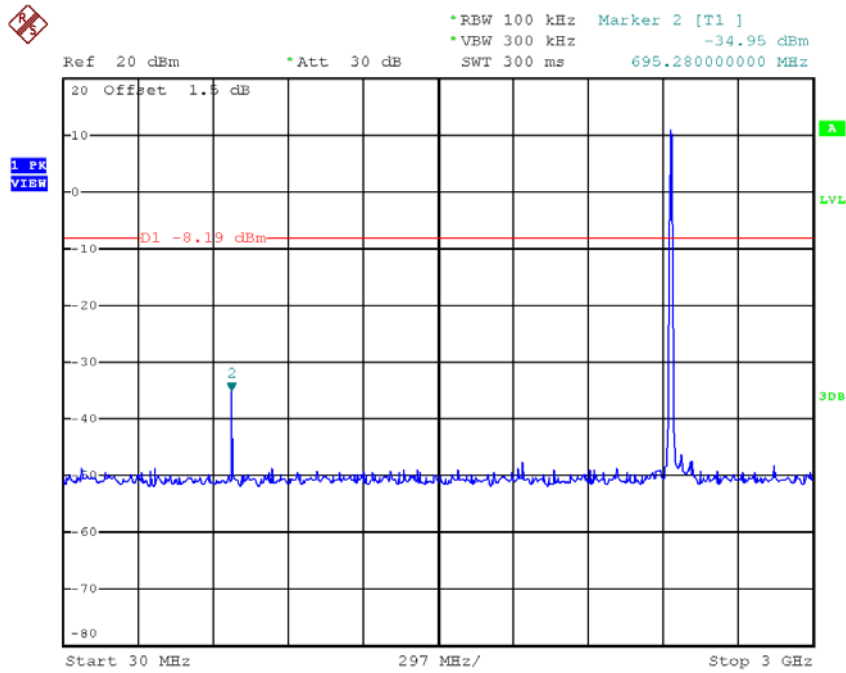


Date: 5.DEC.2017 13:33:14

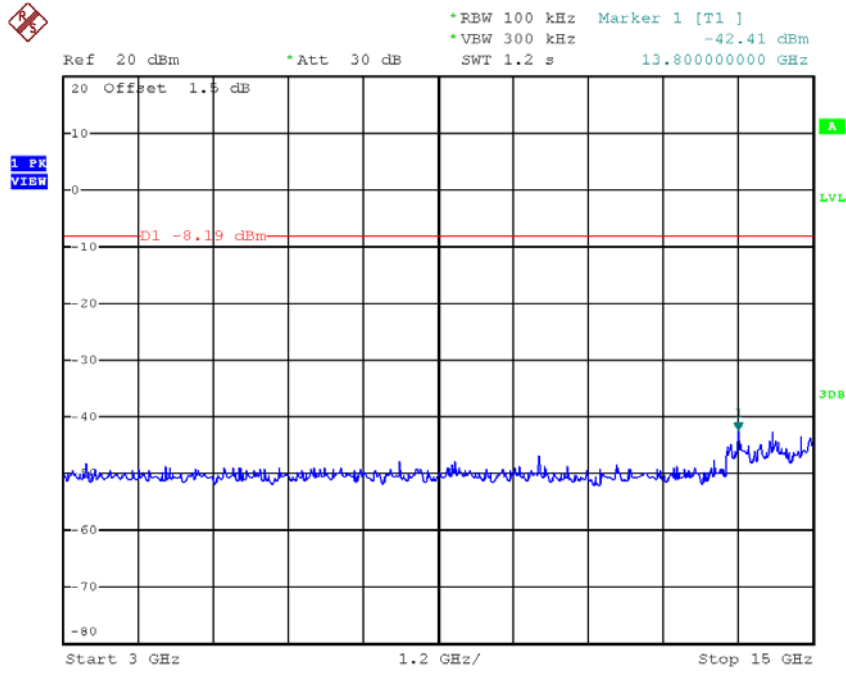


Date: 5.DEC.2017 13:33:21

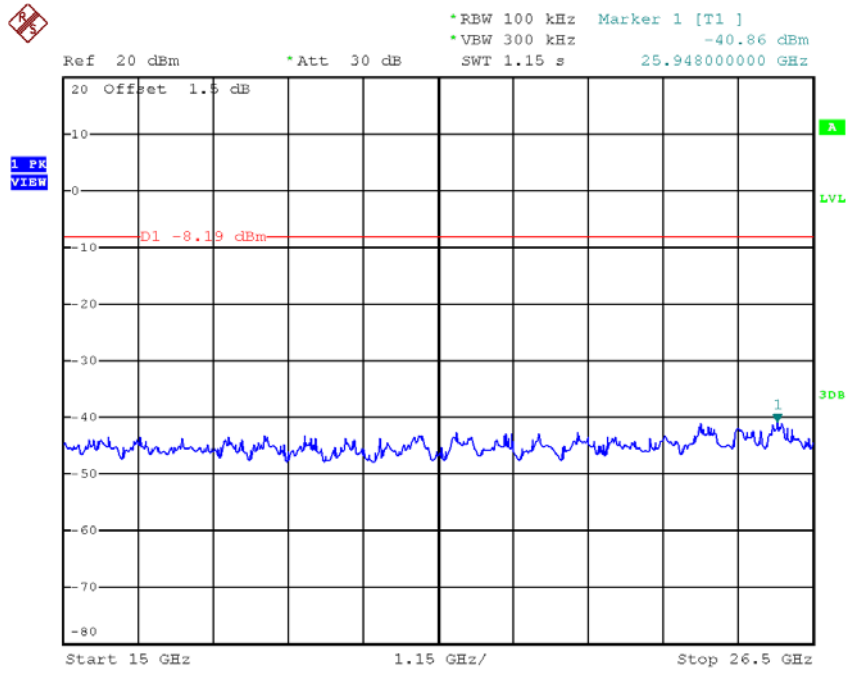
**TX B mode CH06 (10 Harmonic of the frequency)**



Date: 5.DEC.2017 13:39:26



Date: 5.DEC.2017 13:39:33



Date: 5.DEC.2017 13:39:40