

# FCC Radio Test Report

## FCC ID: X4YKRNS300

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

**Project No.** : 1508C180  
**Equipment** : Universal Range Extender  
**Model Name** : AEIEL304U1  
**Applicant** : NEXXT SOLUTIONS  
**Address** : 3505 N.W 107TH AVE, MIAMI ,FL,33178

**Date of Receipt** : Aug. 19, 2015  
**Date of Test** : Aug. 19, 2015 ~ Aug. 27, 2015  
**Issued Date** : Aug. 28, 2015  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1508C180	Original Issue.	Aug. 28, 2015

## 1. CERTIFICATION

Equipment : Universal Range Extender  
Brand Name : NEXXT  
Model Name : AEIEL304U1  
Applicant : NEXXT SOLUTIONS  
Manufacturer : NEXXT SOLUTIONS  
Address : 3505 N.W 107TH AVE, MIAMI , FL, 33178  
Date of Test : Aug. 19, 2015 ~ Aug. 27, 2015  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1508C180) 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: 2014			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

**NOTE:**

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

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

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

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

### A. Conducted Measurement:

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

### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
DG-CB03 (3m)	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	

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
DG-CB03 (3m)	CISPR	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	Universal Range Extender	
Brand Name	NEXXT	
Model Name	AEIEL304U1	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 20.45dBm 802.11g: 24.37dBm 802.11n(20MHz): 26.99dBm 802.11n(40MHz): 20.41dBm
Power Source	AC Mains	
Power Rating	I/P:AC 100-240V 50/60Hz 0.1A	

Note:

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

## 2. Channel List:

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

## 3. Table for Filed Antenna

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

Note:

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

## 4.

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

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

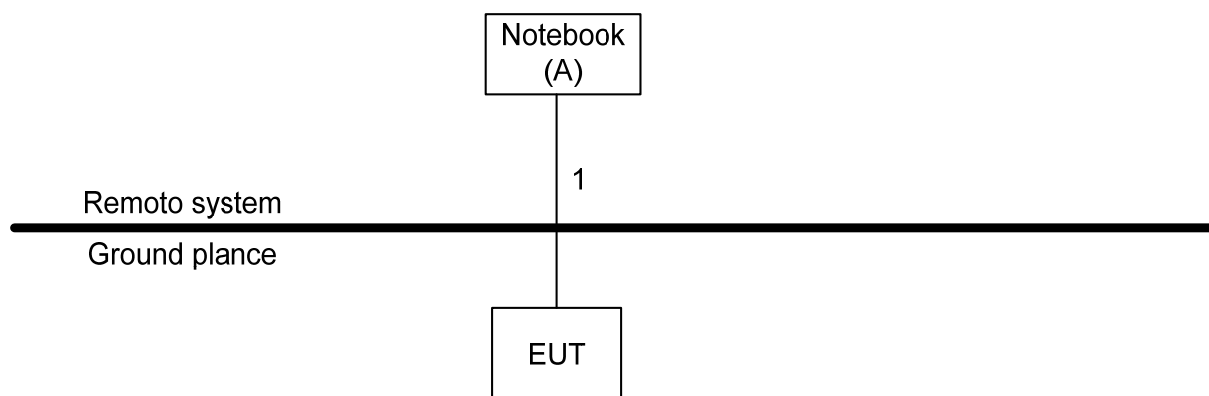
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
802.11g mode: OFDM (6Mbps)  
802.11n HT20 mode : BPSK (13Mbps)  
802.11n HT40 mode : BPSK (27Mbps)  
For radiated emission tests, the highest output powers were set for final test.
-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

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	Mtool		
Frequency (MHz)	2412	2437	2462
802.11b	77	79	78
802.11g	58	79	61
802.11n (20MHz)	58	77	55
Frequency	2422	2437	2452
802.11n (40MHz)	48	52	49

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



### 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	Notebook	Lenovo	H2510	DOC	SS07999198	

Item	Shielded Type	Ferrite Core	Length	Note
1	NA	NA	101	RJ45 Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

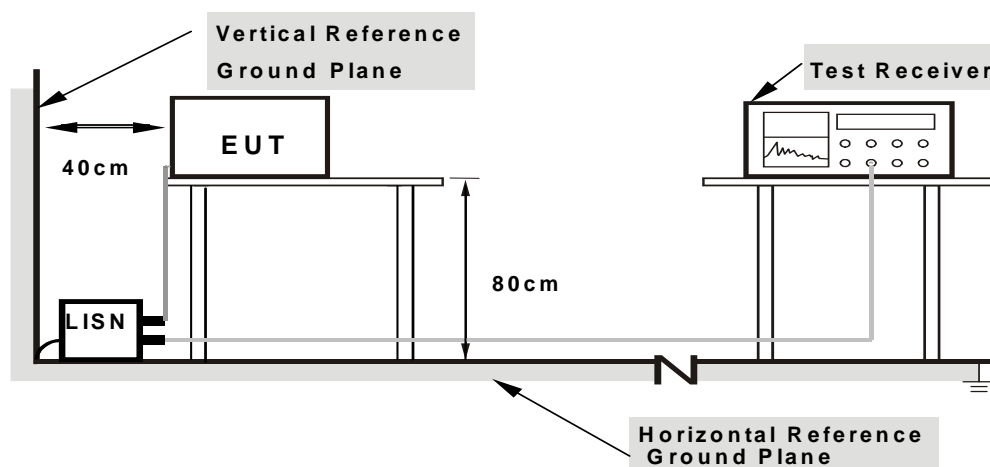
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

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

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

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

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

Notes:

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

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



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

#### 4.2.2 TEST PROCEDURE

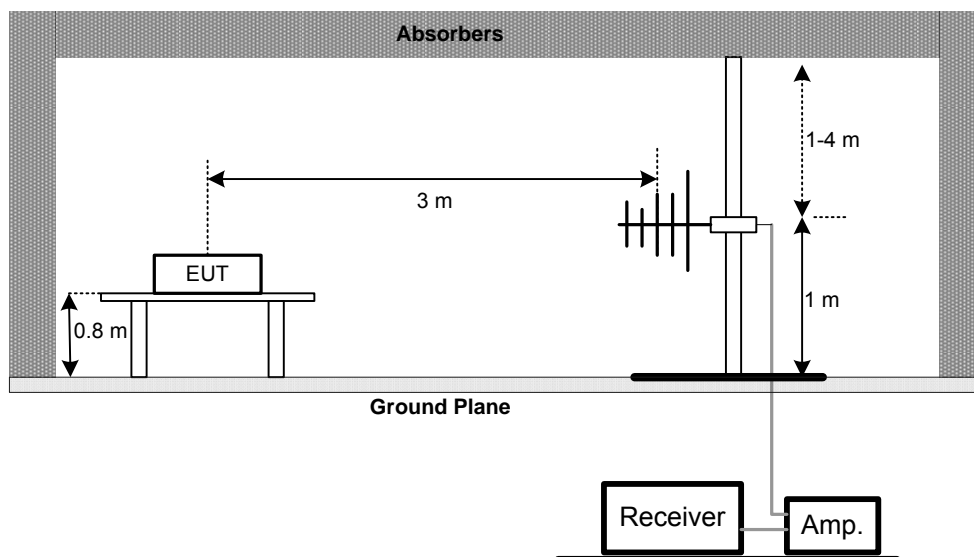
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

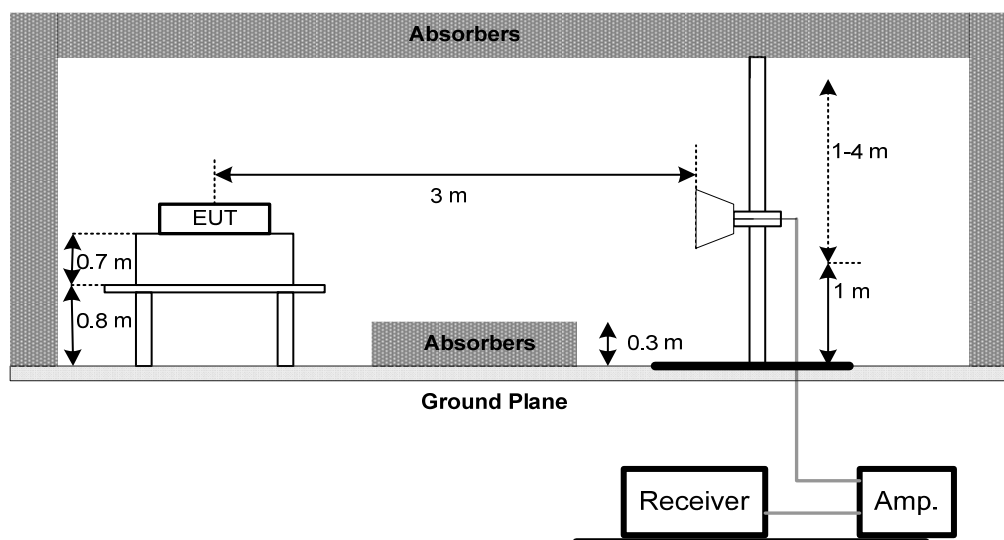
No deviation

#### 4.2.4 TEST SETUP

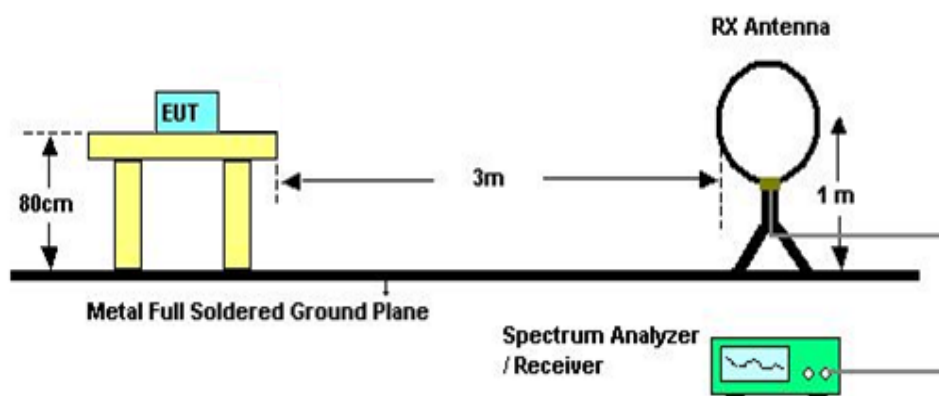
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT 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

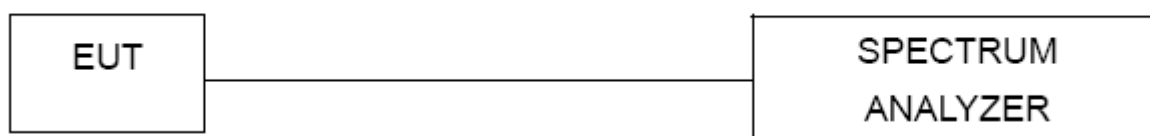
#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

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

#### 6.1.1 TEST PROCEDURE

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

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.1.5 EUT TEST CONDITIONS

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

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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

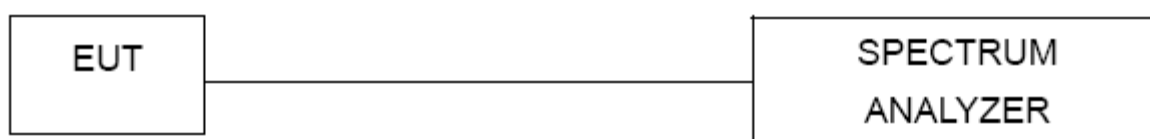
#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30M Hz)	C_17	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	emci	LMR-400(30MHz-1 GHz)	C-01	Jun. 28, 2016
5	Antenna	ETS	3115	00075789	Mar. 28, 2016
6	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
7	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
8	Test Cable	emci	EMC104-SM-SM-1 0000(1GHz — 26.5GHz)	C-68	Jun. 28, 2016
9	Controller	CT	SC100	N/A	N/A
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A



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

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

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

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

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

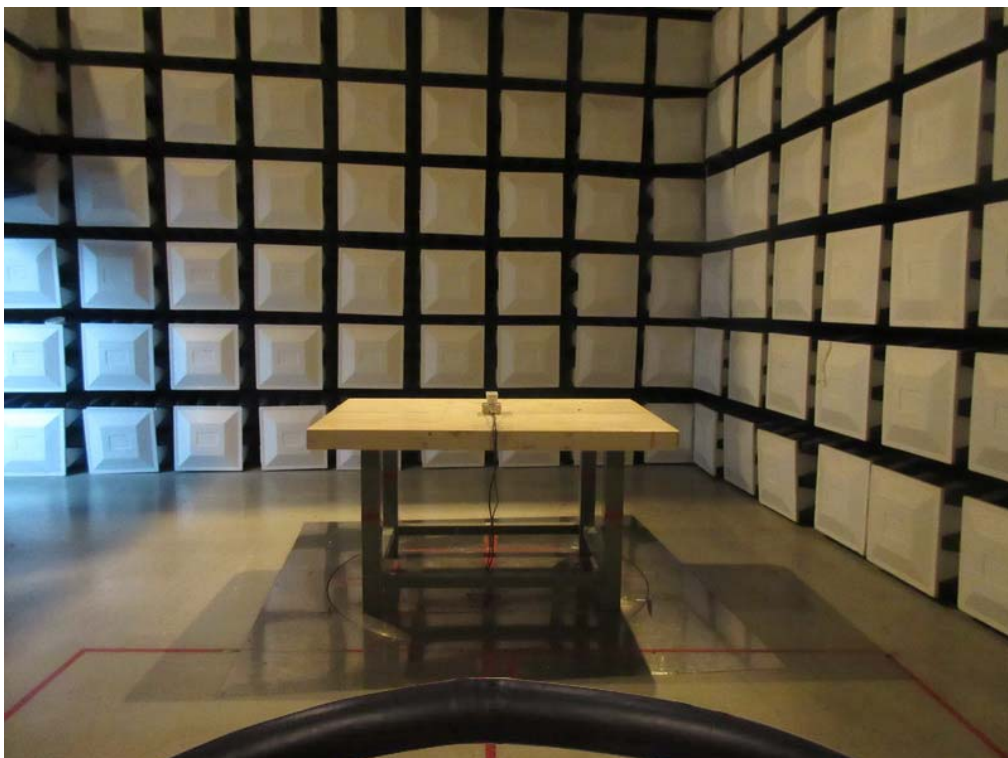
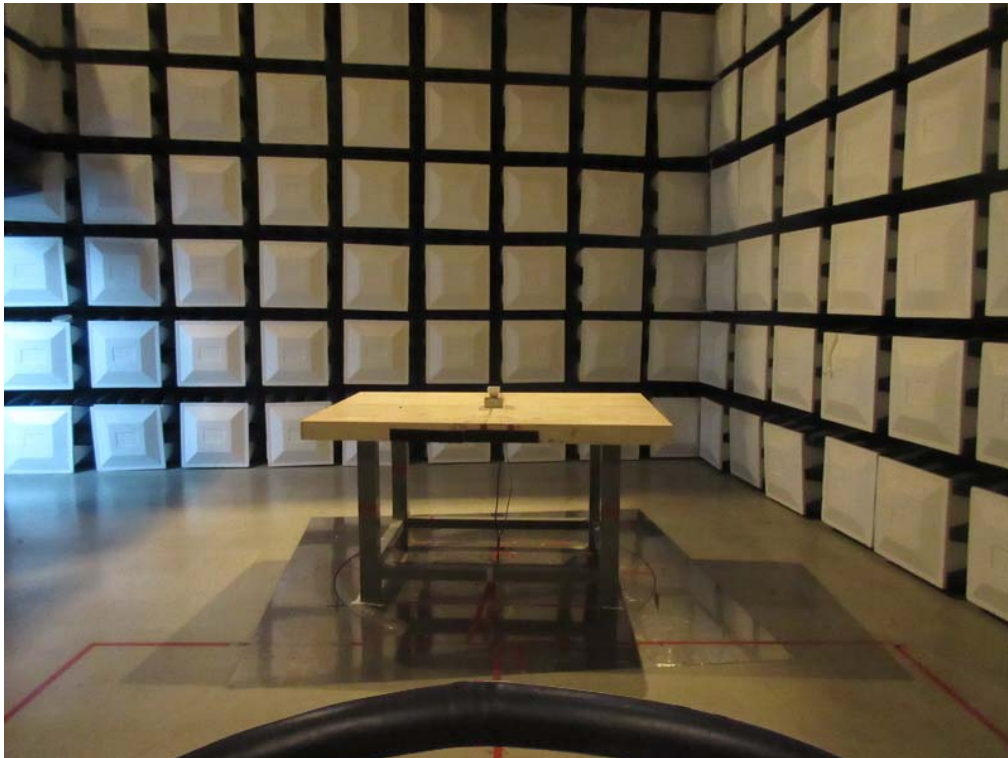
## 10. EUT TEST PHOTO

### Conducted Measurement Photos



## Radiated Measurement Photos

9KHz to 30MHz



## Radiated Measurement Photos

30MHz to 1000MHz





## Radiated Measurement Photos

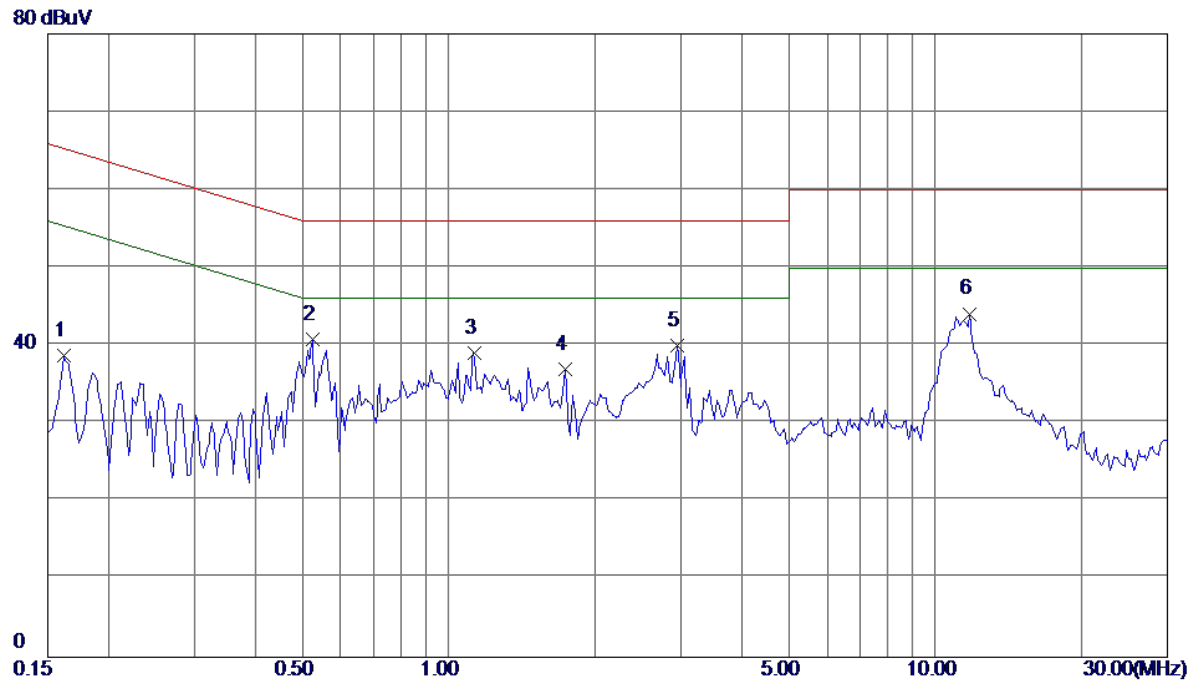
Above 1000MHz



## **ATTACHMENT A - CONDUCTED EMISSION**

Test Mode : TX MODE

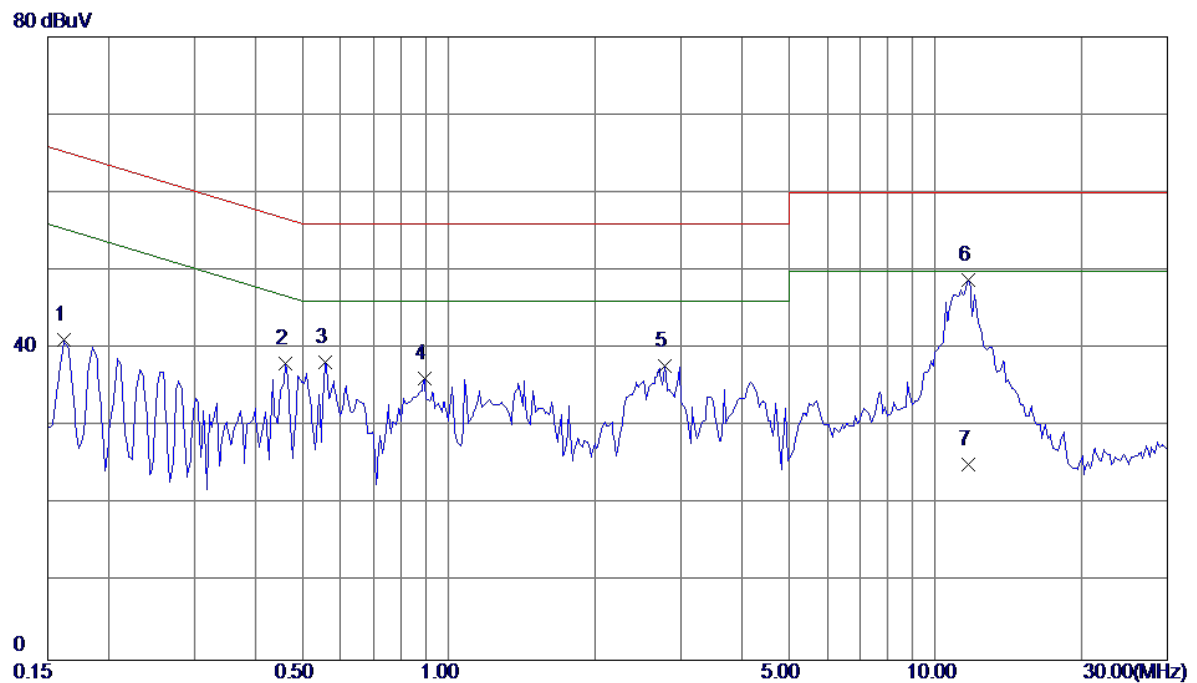
### Line



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
1	0.1617	29.14	9.55	38.69	65.38	-26.69	Peak	
2	0.5250	31.09	9.69	40.78	56.00	-15.22	Peak	
3	1.1266	29.23	9.81	39.04	56.00	-16.96	Peak	
4	1.7359	27.04	9.88	36.92	56.00	-19.08	Peak	
5	2.9547	29.96	10.03	39.99	56.00	-16.01	Peak	
6	11.7617	34.22	9.86	44.08	60.00	-15.92	Peak	

Test Mode : TX MODE

### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1617	31.58	9.48	41.06	65.38	-24.32	Peak	
2	0.4625	28.53	9.55	38.08	56.65	-18.57	Peak	
3	0.5563	28.69	9.56	38.25	56.00	-17.75	Peak	
4	0.8922	26.54	9.58	36.12	56.00	-19.88	Peak	
5	2.7867	27.90	9.79	37.69	56.00	-18.31	Peak	
6	11.6758	38.98	9.87	48.85	60.00	-11.15	Peak	
7	11.6758	15.30	9.87	25.17	50.00	-24.83	AVG	



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

Test Mode:	TX B MODE CHANNEL 01
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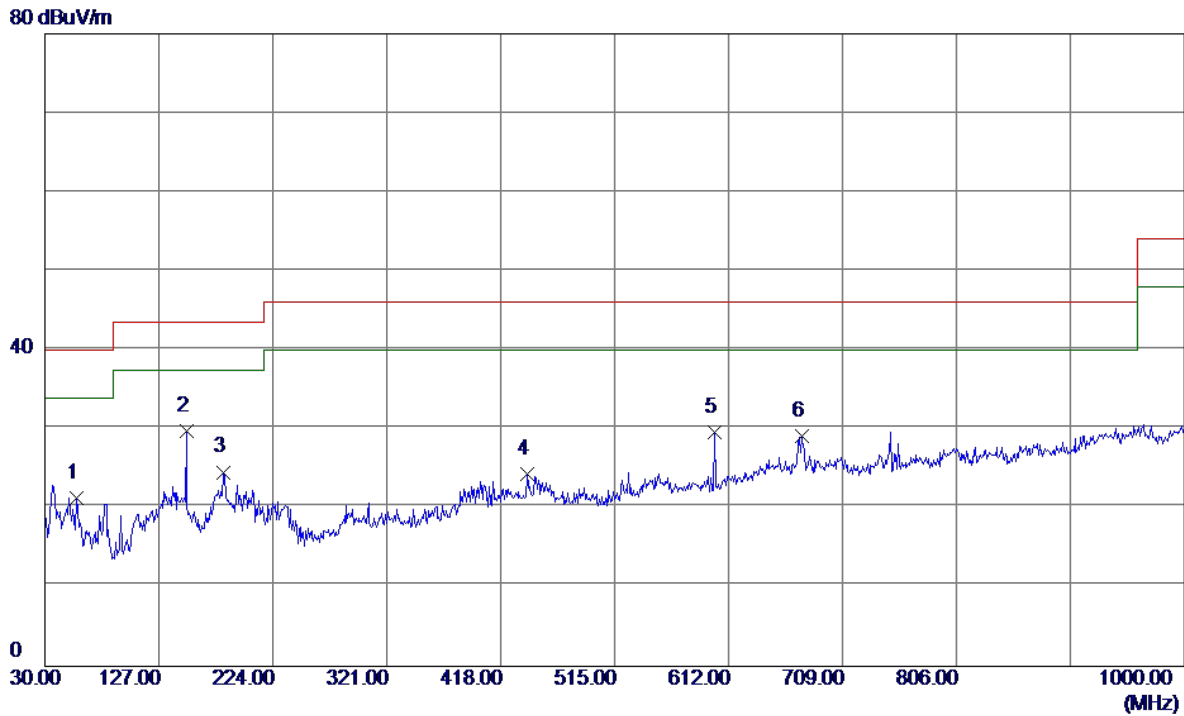
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00952	0°	13.37	24.9637	38.3337	128.0315	-89.6978	AVG
0.00952	0°	14.19	24.9637	39.1537	148.0315	-108.8778	PEAK
0.0297	0°	6.89	23.6857	30.5757	118.1491	-87.5734	AVG
0.0297	0°	8.46	23.6857	32.1457	138.1491	-106.0034	PEAK
0.0373	0°	3.51	23.2043	26.7143	116.1700	-89.4557	AVG
0.0373	0°	5.73	23.2043	28.9343	136.1700	-107.2357	PEAK
0.0624	0°	1.55	22.1520	23.7020	111.7005	-87.9985	AVG
0.0624	0°	2.78	22.1520	24.9320	131.7005	-106.7685	PEAK
0.5541	0°	19.87	19.9731	39.8431	72.7325	-32.8893	QP
1.968	0°	23.94	19.5032	43.4432	69.5400	-26.0968	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0137	90°	13.22	24.3000	37.5200	124.8698	-87.3498	AVG
0.0137	90°	15.03	24.3000	39.3300	144.8698	-105.5398	PEAK
0.0296	90°	7.47	23.6920	31.1620	118.1784	-87.0164	AVG
0.0296	90°	9.11	23.6920	32.8020	138.1784	-105.3764	PEAK
0.0467	90°	5.96	22.6090	28.5690	114.2179	-85.6489	AVG
0.0467	90°	6.88	22.6090	29.4890	134.2179	-104.7289	PEAK
0.0672	90°	2.02	22.0560	24.0760	111.0568	-86.9808	AVG
0.0672	90°	3.21	22.0560	25.2660	131.0568	-105.7908	PEAK
0.598	90°	22.66	20.1136	42.7736	72.0702	-29.2966	QP
2.0642	90°	24.84	19.4615	44.3015	69.5400	-25.2385	QP

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

Test Mode:	TX B MODE CHANNEL 01
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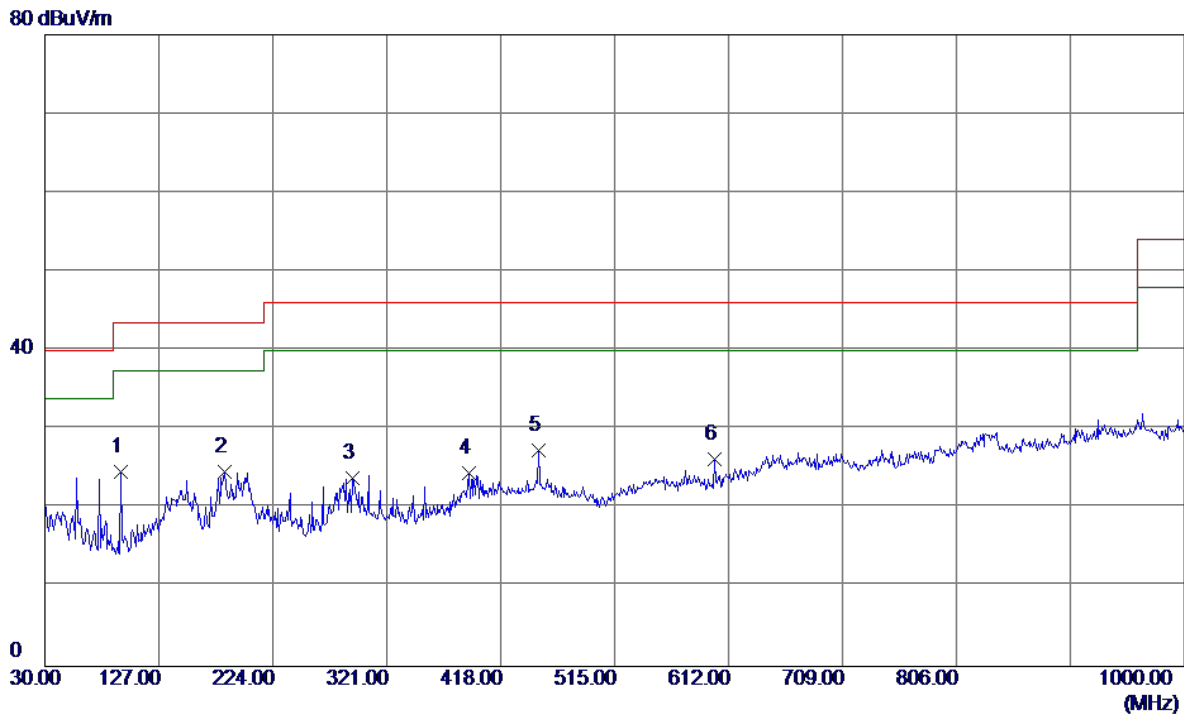
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	57.1600	34.34	-13.02	21.32	40.00	-18.68	Peak	
2	150.2800	41.36	-11.62	29.74	43.50	-13.76	Peak	
3	182.2899	36.38	-11.82	24.56	43.50	-18.94	Peak	
4	440.3100	30.46	-6.16	24.30	46.00	-21.70	Peak	
5	600.3600	34.23	-4.62	29.61	46.00	-16.39	Peak	
6	674.0800	30.68	-1.56	29.12	46.00	-16.88	Peak	

Test Mode: TX B MODE CHANNEL 01

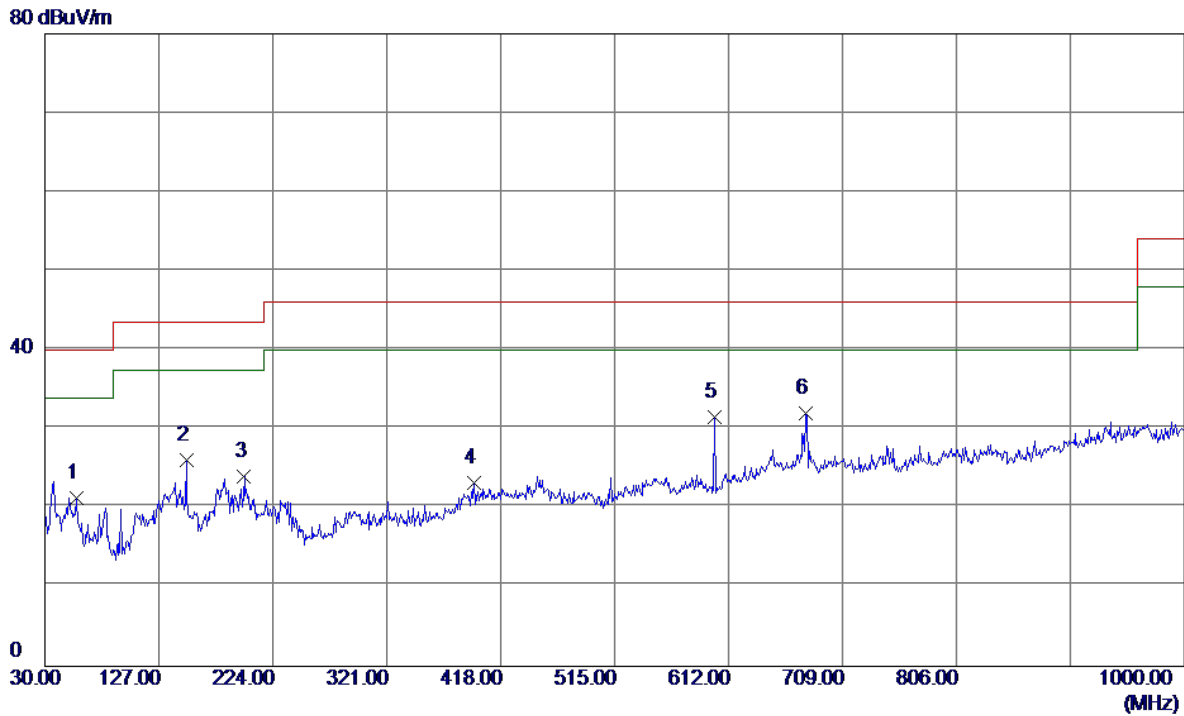
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	94.9900	40.20	-15.51	24.69	43.50	-18.81	Peak	
2	183.2600	36.60	-11.97	24.63	43.50	-18.87	Peak	
3	291.9000	33.63	-9.77	23.86	46.00	-22.14	Peak	
4	390.8400	32.30	-7.75	24.55	46.00	-21.45	Peak	
5	450.0100	33.27	-5.90	27.37	46.00	-18.63	Peak	
6	600.3600	30.82	-4.62	26.20	46.00	-19.80	Peak	

Test Mode: TX B MODE CHANNEL 06

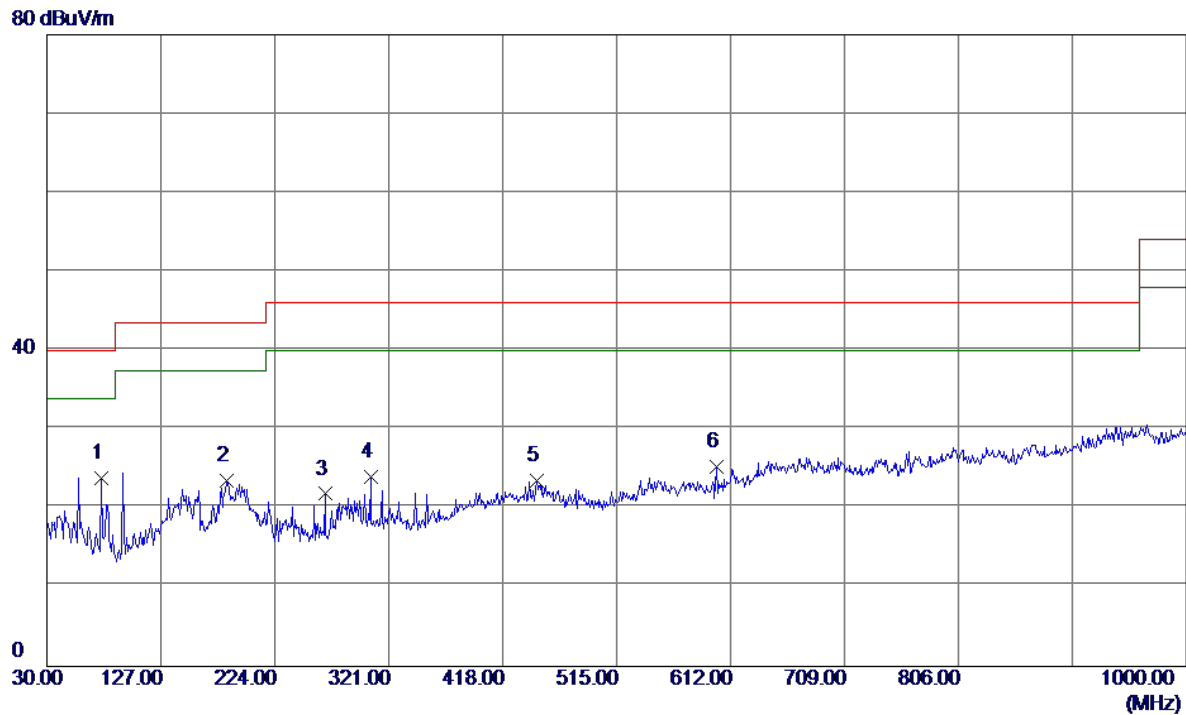
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	57.1600	34.35	-13.02	21.33	40.00	-18.67	Peak	
2	150.2800	37.64	-11.62	26.02	43.50	-17.48	Peak	
3	199.7500	37.52	-13.56	23.96	43.50	-19.54	Peak	
4	395.6900	30.65	-7.49	23.16	46.00	-22.84	Peak	
5	600.3600	36.12	-4.62	31.50	46.00	-14.50	Peak	
6	677.9600	33.57	-1.54	32.03	46.00	-13.97	Peak	

Test Mode: TX B MODE CHANNEL 06

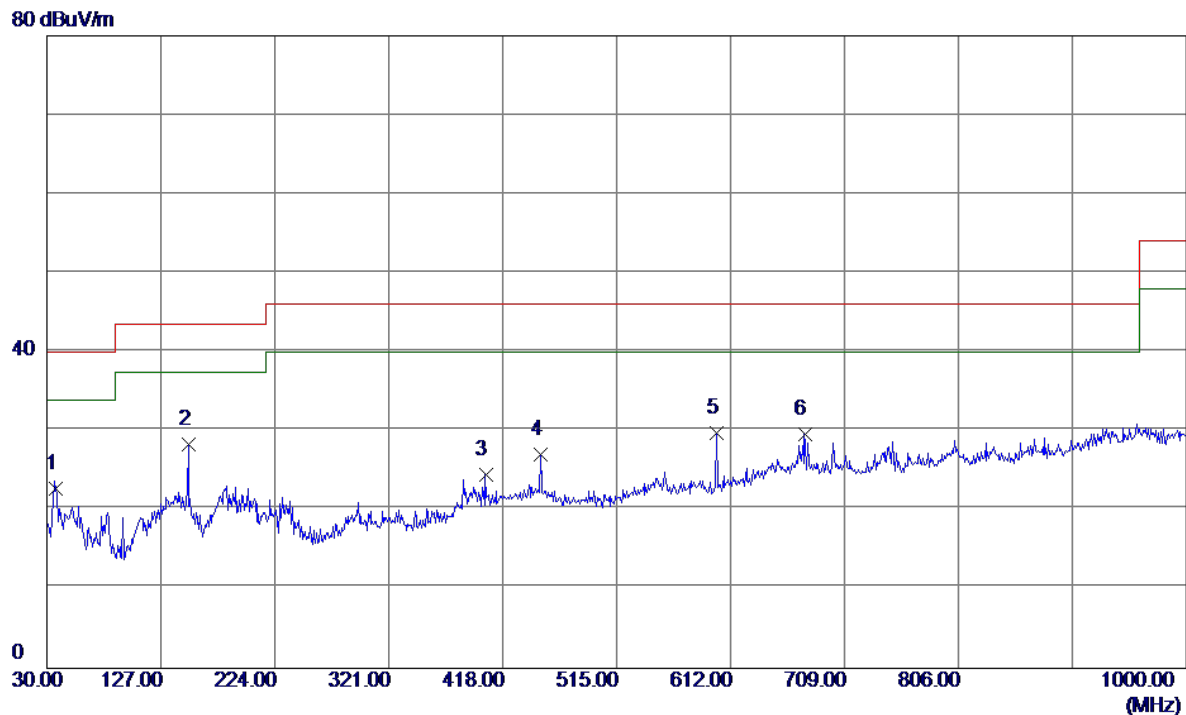
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.5600	39.29	-15.39	23.90	40.00	-16.10	Peak	
2	183.2600	35.42	-11.97	23.45	43.50	-20.05	Peak	
3	266.6800	33.91	-12.07	21.84	46.00	-24.16	Peak	
4	305.4800	33.59	-9.62	23.97	46.00	-22.03	Peak	
5	447.1000	29.45	-5.97	23.48	46.00	-22.52	Peak	
6	600.3600	29.85	-4.62	25.23	46.00	-20.77	Peak	

Test Mode:	TX B MODE CHANNEL 11
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### Vertical

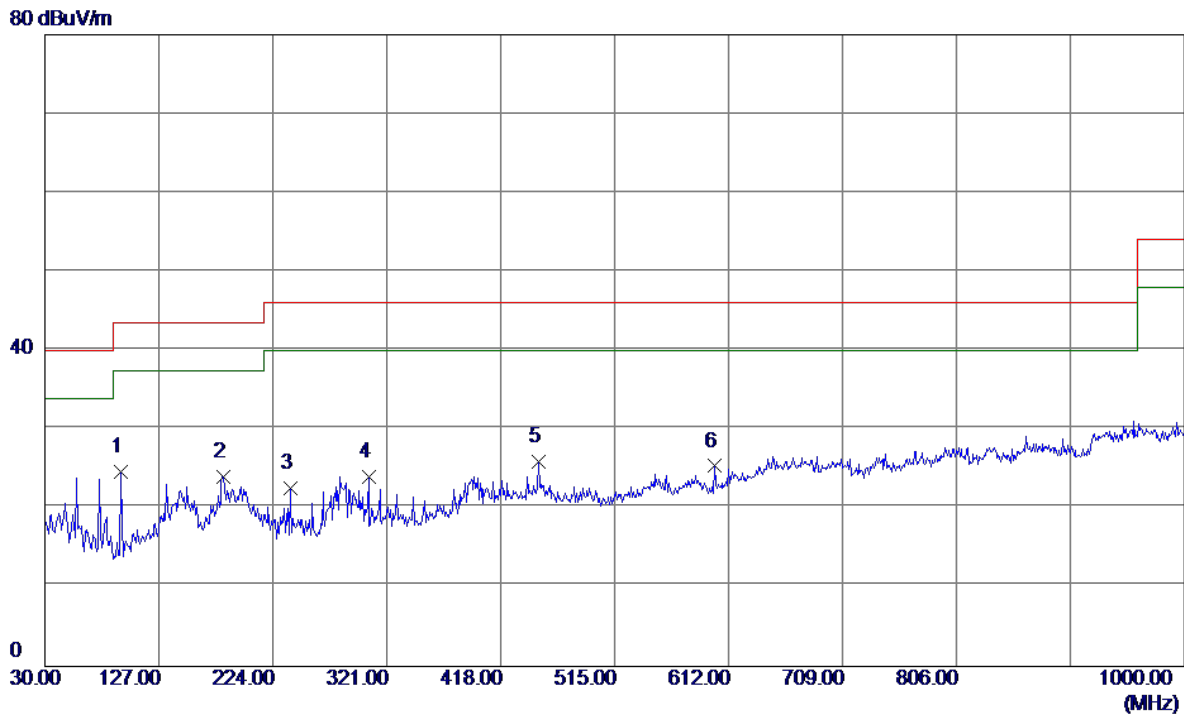


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	37.7599	35.66	-12.96	22.70	40.00	-17.30	Peak	
2	150.2800	39.91	-11.62	28.29	43.50	-15.21	Peak	
3	403.4500	31.65	-7.17	24.48	46.00	-21.52	Peak	
4	450.0100	32.92	-5.90	27.02	46.00	-18.98	Peak	
5	600.3600	34.33	-4.62	29.71	46.00	-16.29	Peak	
6	675.0500	31.12	-1.55	29.57	46.00	-16.43	Peak	



Test Mode:	TX B MODE CHANNEL 11
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### Horizontal

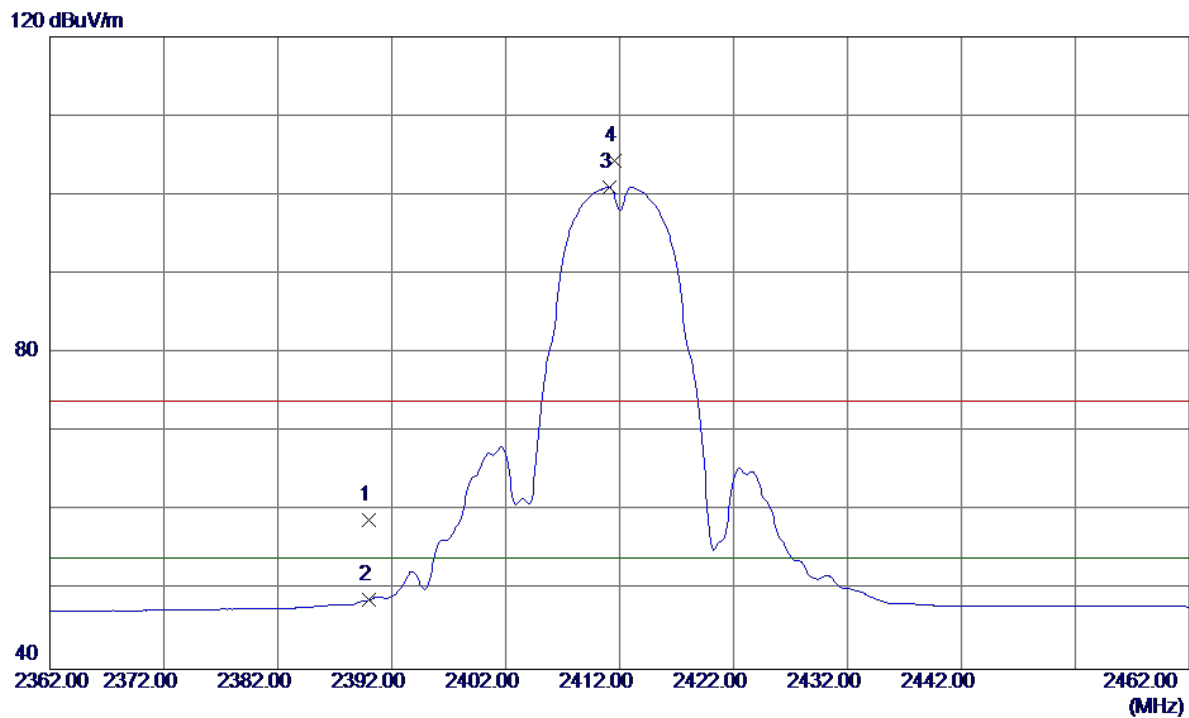


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	94.9900	40.19	-15.51	24.68	43.50	-18.82	Peak	
2	182.2899	35.85	-11.82	24.03	43.50	-19.47	Peak	
3	238.5500	34.96	-12.45	22.51	46.00	-23.49	Peak	
4	305.4800	33.60	-9.62	23.98	46.00	-22.02	Peak	
5	450.0100	31.87	-5.90	25.97	46.00	-20.03	Peak	
6	600.3600	29.98	-4.62	25.36	46.00	-20.64	Peak	

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

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

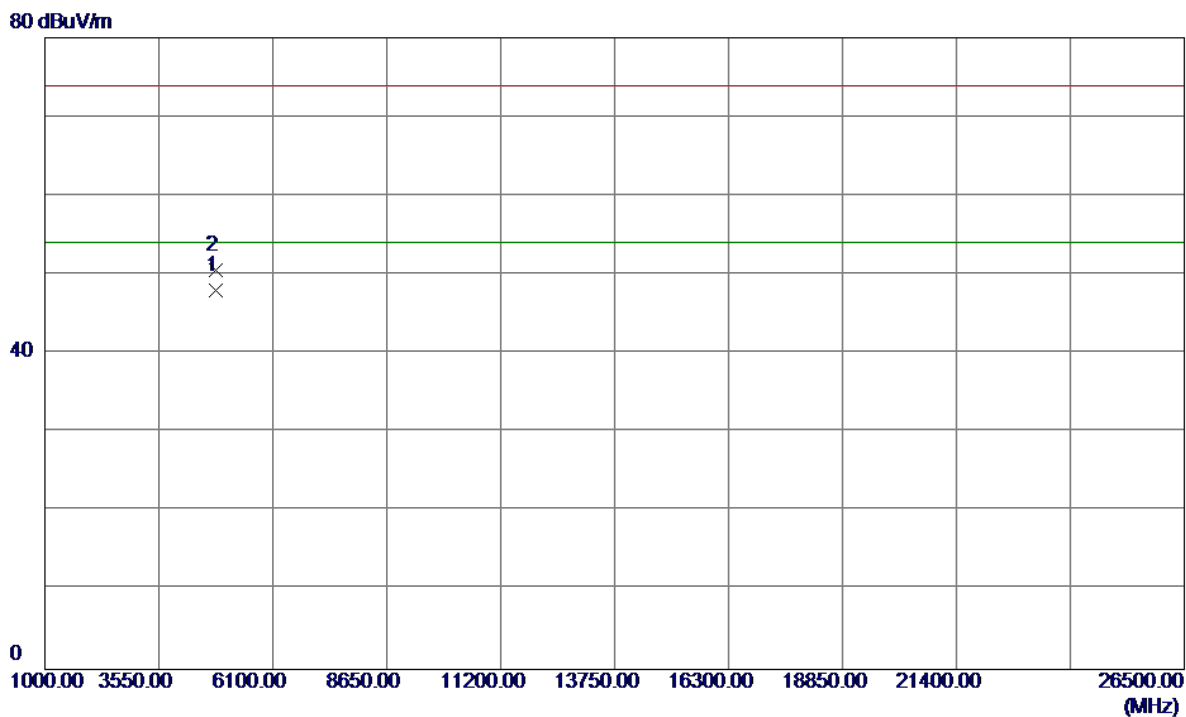
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	24.67	34.23	58.90	74.00	-15.10	Peak	
2	2390.0000	14.52	34.23	48.75	54.00	-5.25	AVG	
3	2411.1000	66.65	34.35	101.00	54.00	47.00	AVG	NO LIMIT
4	2411.6000	69.89	34.36	104.25	74.00	30.25	Peak	NO LIMIT

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

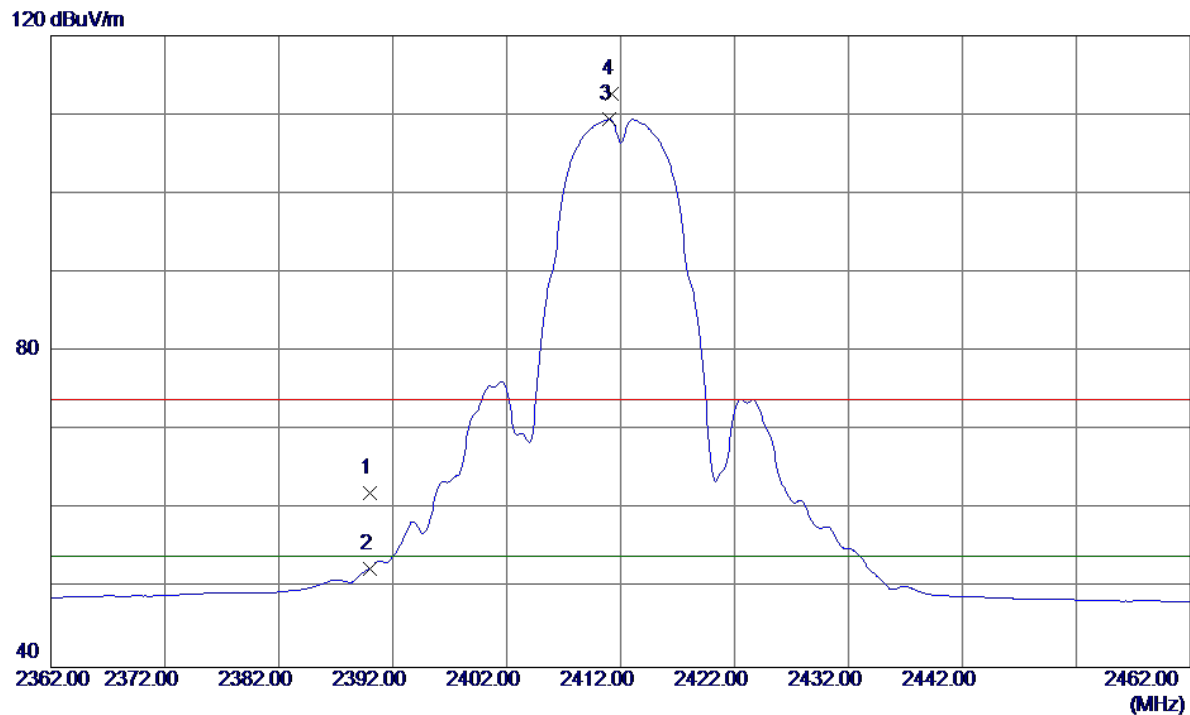
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9400	44.93	3.00	47.93	54.00	-6.07	AVG	
2	4824.0000	47.50	3.00	50.50	74.00	-23.50	Peak	

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

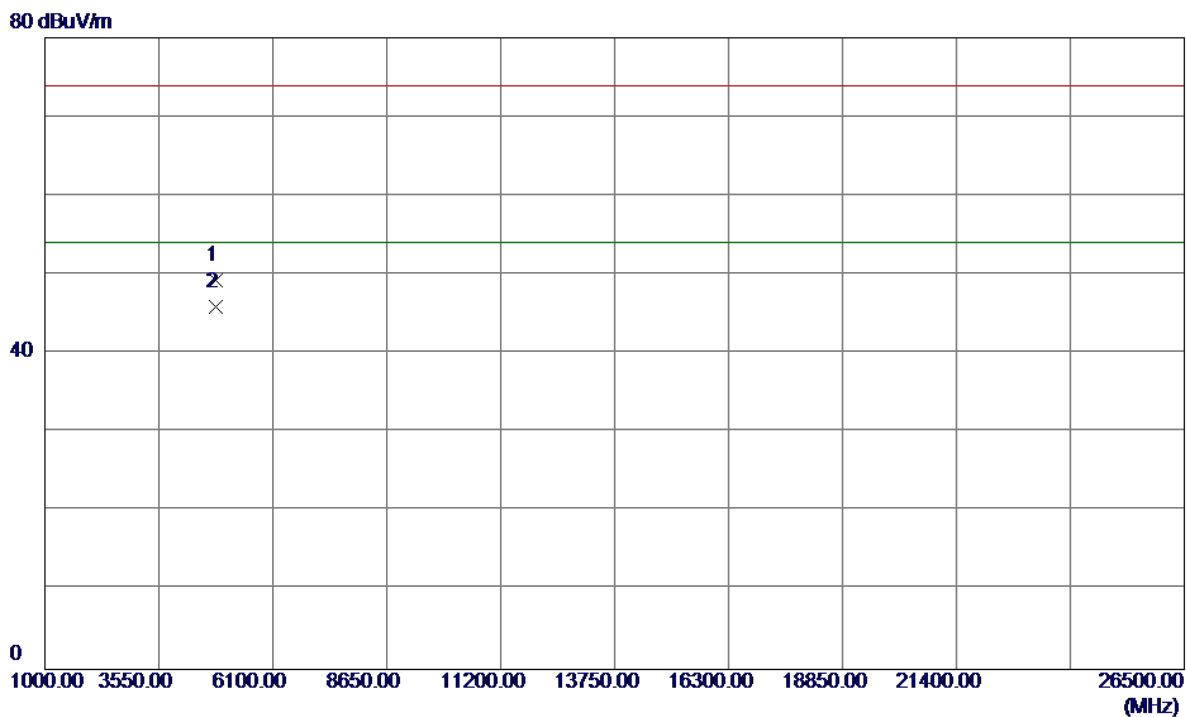
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	27.81	34.23	62.04	74.00	-11.96	Peak	
2	2390.0000	18.27	34.23	52.50	54.00	-1.50	AVG	
3	2411.0000	75.05	34.35	109.40	54.00	55.40	AVG	NO LIMIT
4	2411.2000	78.31	34.35	112.66	74.00	38.66	Peak	NO LIMIT

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

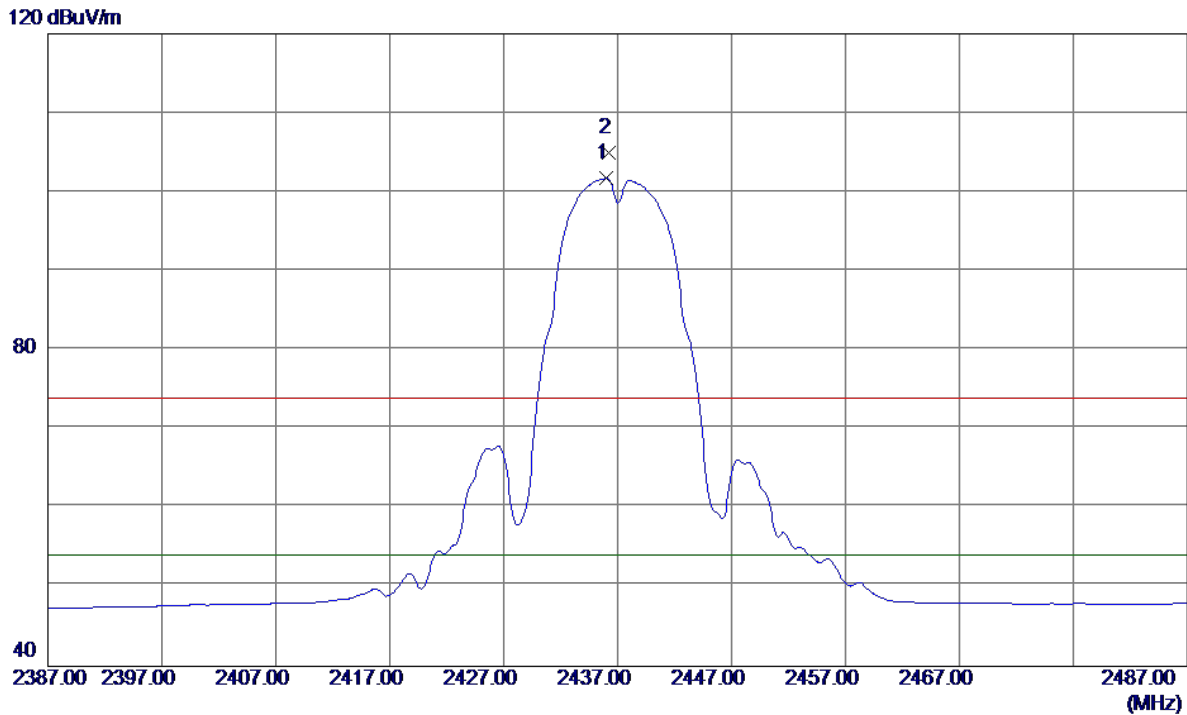
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9800	46.25	3.00	49.25	74.00	-24.75	Peak	
2	4823.9800	42.90	3.00	45.90	54.00	-8.10	AVG	

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

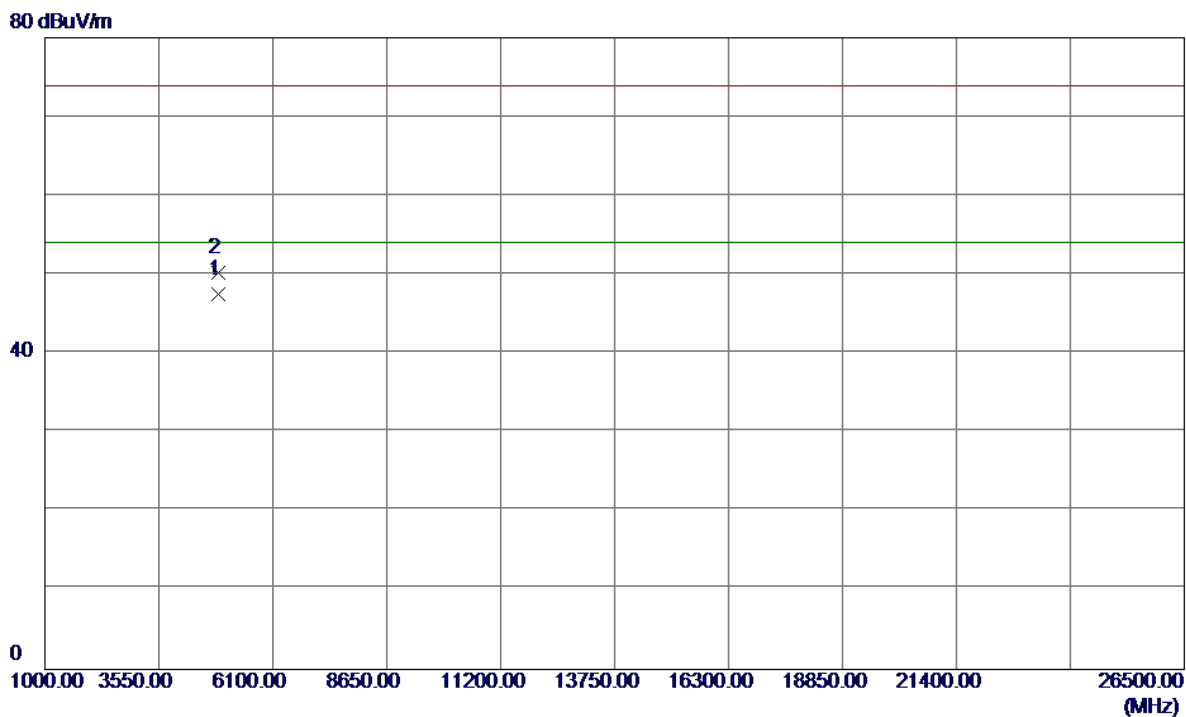
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.0000	67.22	34.50	101.72	54.00	47.72	AVG	NO LIMIT
2	2436.2000	70.49	34.50	104.99	74.00	30.99	Peak	NO LIMIT

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

### Vertical

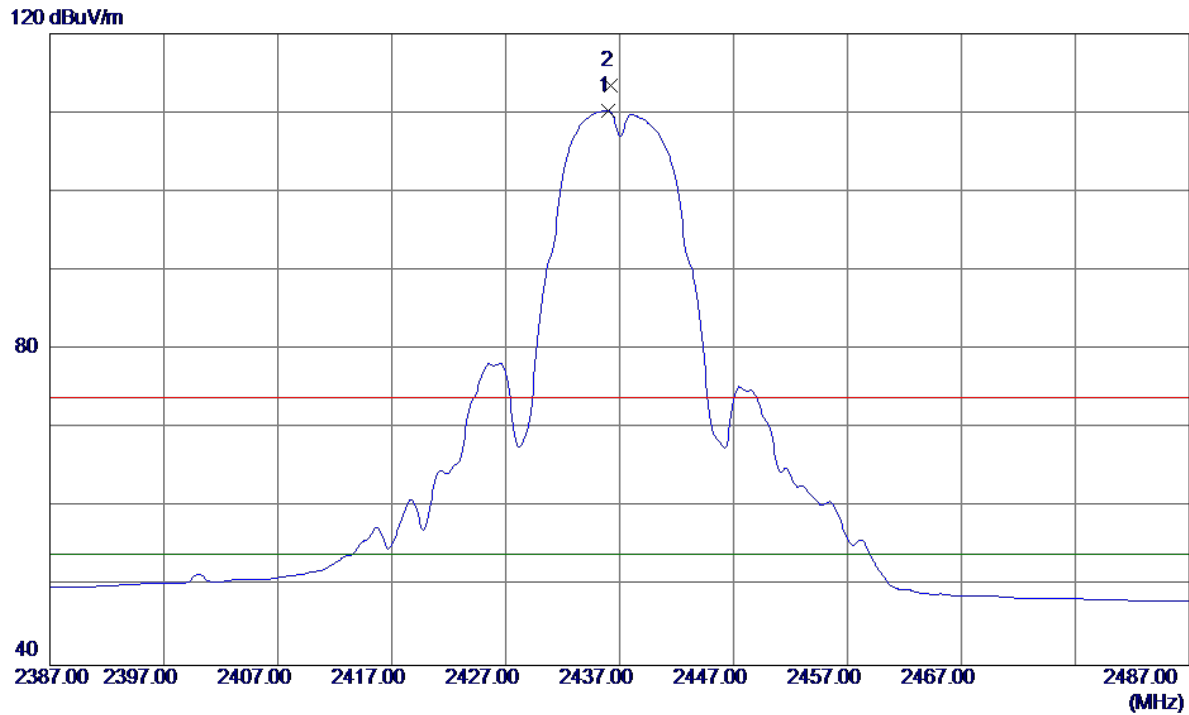


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9800	44.55	3.03	47.58	54.00	-6.42	AVG	
2	4874.0400	47.24	3.03	50.27	74.00	-23.73	Peak	



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

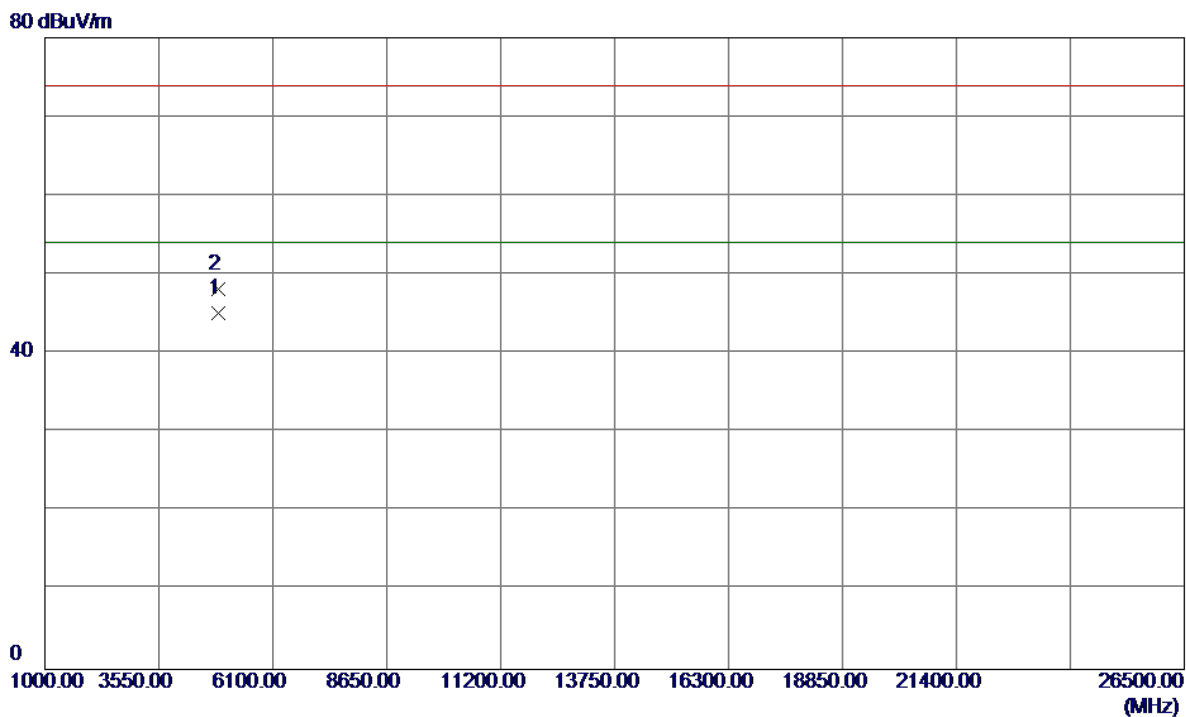
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.0000	75.77	34.50	110.27	54.00	56.27	AVG	NO LIMIT
2	2436.2000	79.00	34.50	113.50	74.00	39.50	Peak	NO LIMIT

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

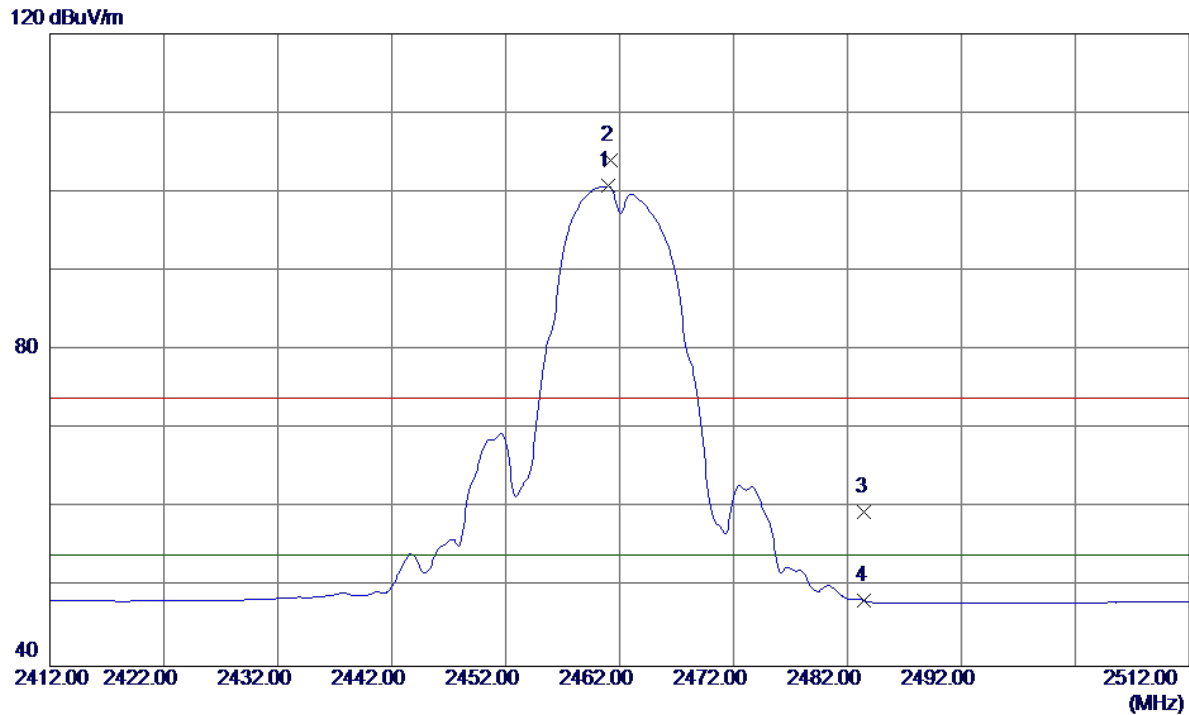
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9600	42.04	3.03	45.07	54.00	-8.93	AVG	
2	4874.0000	45.10	3.03	48.13	74.00	-25.87	Peak	

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

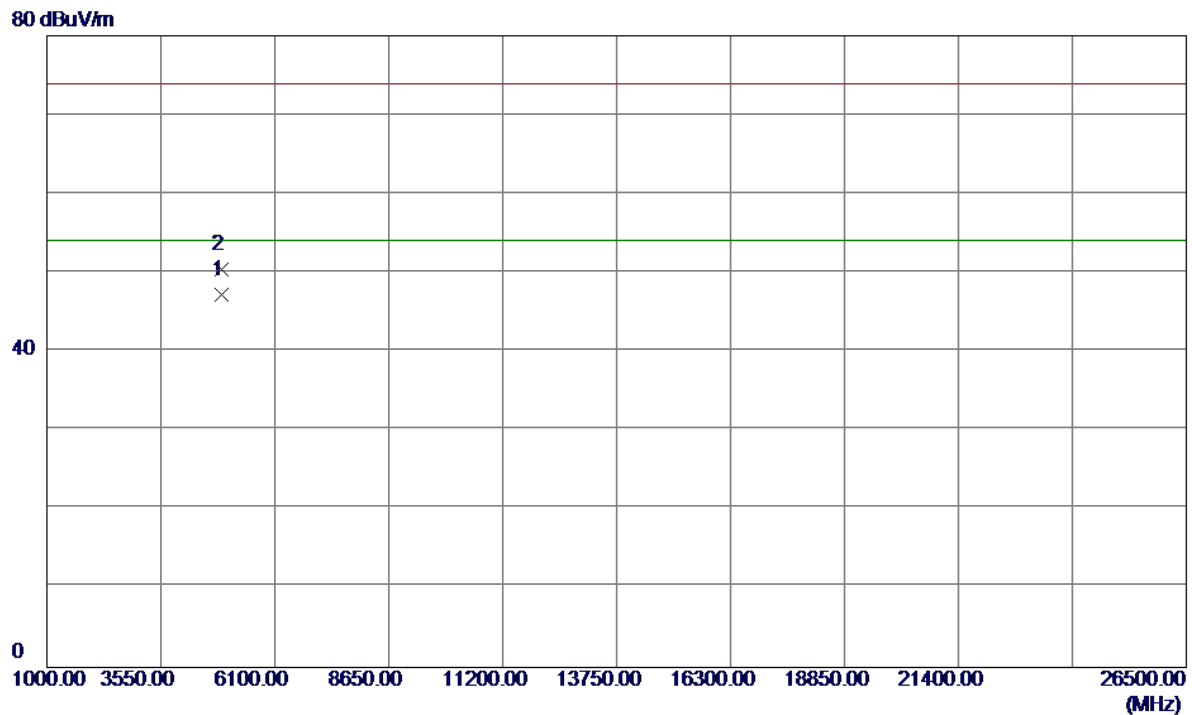
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.0000	66.09	34.64	100.73	54.00	46.73	AVG	NO LIMIT
2	2461.2000	69.31	34.64	103.95	74.00	29.95	Peak	NO LIMIT
3	2483.5000	24.76	34.77	59.53	74.00	-14.47	Peak	
4	2483.5000	13.55	34.77	48.32	54.00	-5.68	AVG	

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

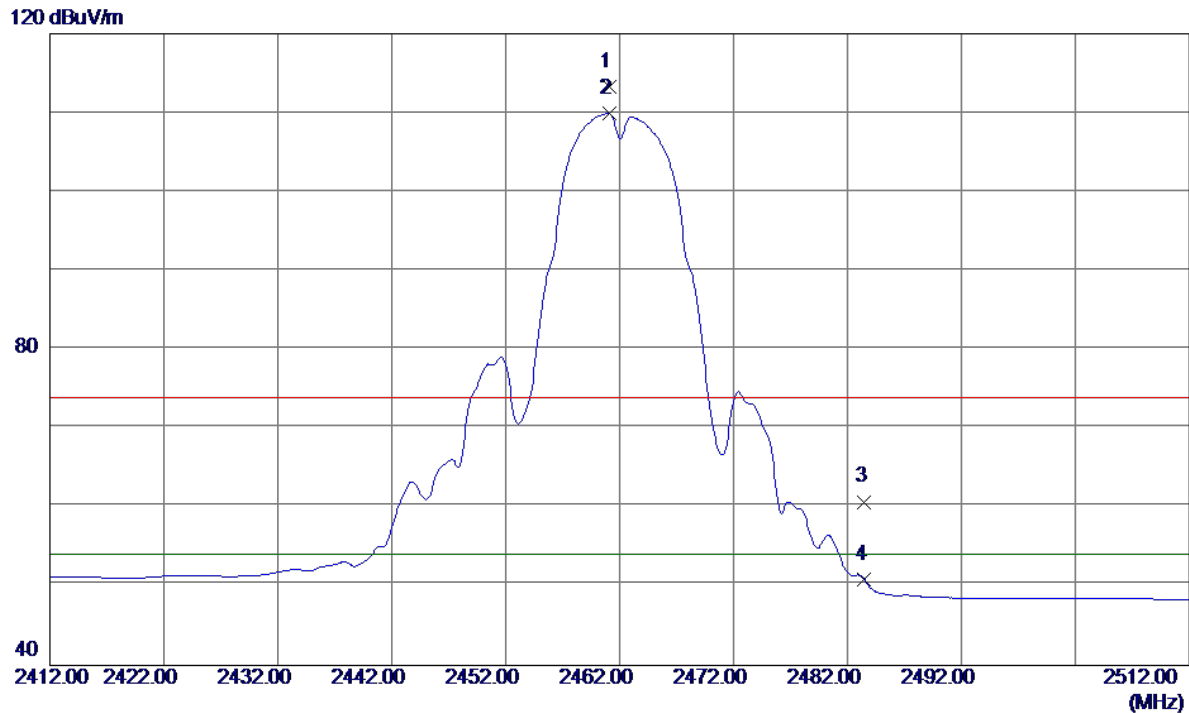
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9800	44.16	3.05	47.21	54.00	-6.79	AVG	
2	4924.0000	47.33	3.05	50.38	74.00	-23.62	Peak	

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

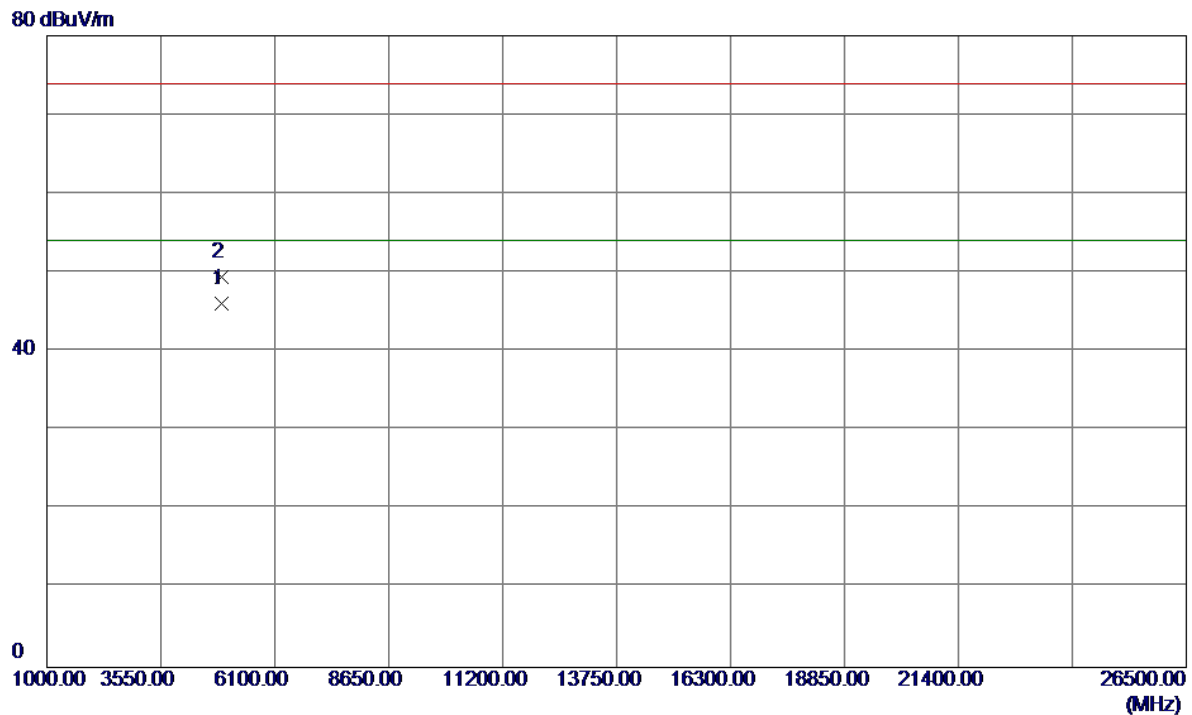
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	78.66	34.64	113.30	74.00	39.30	Peak	NO LIMIT
2	2461.1000	75.26	34.64	109.90	54.00	55.90	AVG	NO LIMIT
3	2483.5000	25.95	34.77	60.72	74.00	-13.28	Peak	
4	2483.5000	16.08	34.77	50.85	54.00	-3.15	AVG	

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

### Horizontal

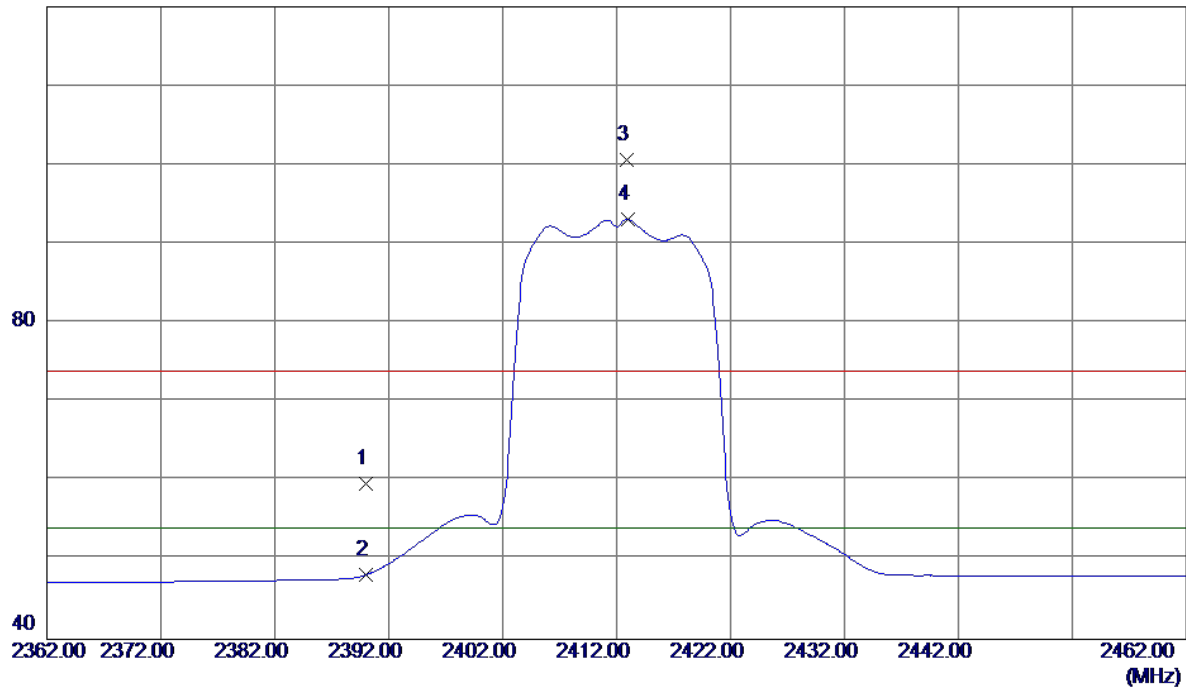


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0000	42.96	3.05	46.01	54.00	-7.99	AVG	
2	4924.0600	46.34	3.05	49.39	74.00	-24.61	Peak	

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

### Vertical

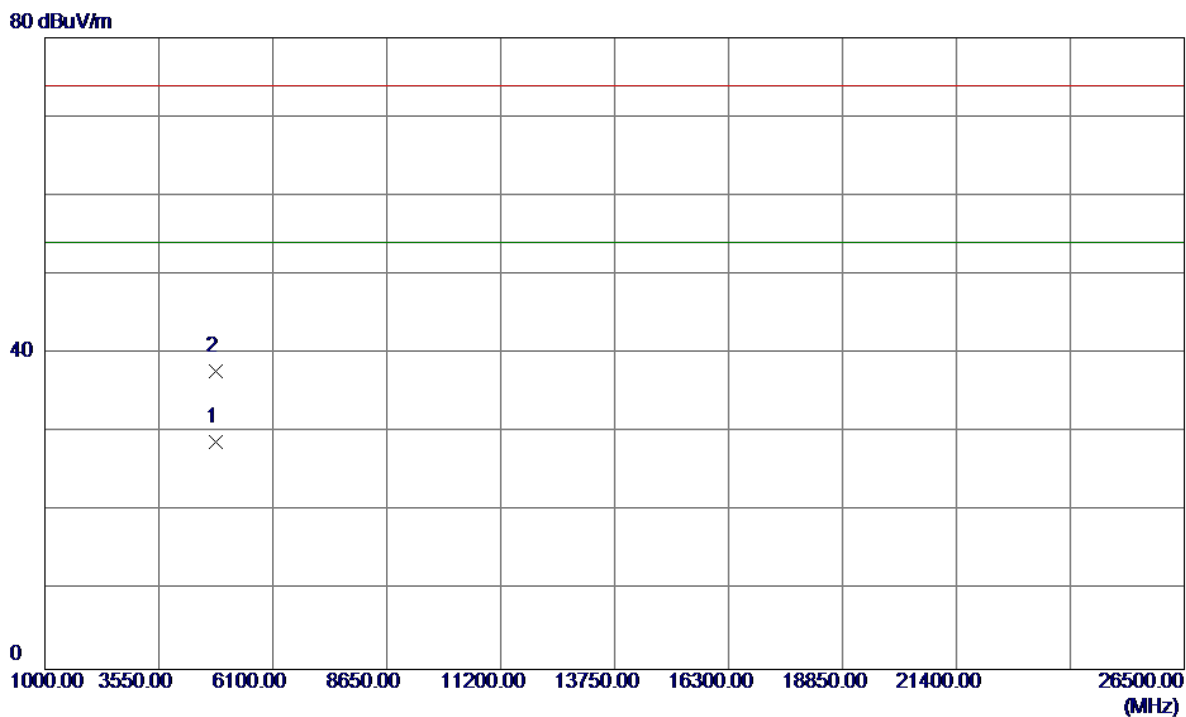
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	25.40	34.23	59.63	74.00	-14.37	Peak	
2	2390.0000	13.92	34.23	48.15	54.00	-5.85	AVG	
3	2412.9000	66.22	34.36	100.58	74.00	26.58	Peak	NO LIMIT
4	2413.0000	58.71	34.37	93.08	54.00	39.08	AVG	NO LIMIT

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

### Vertical

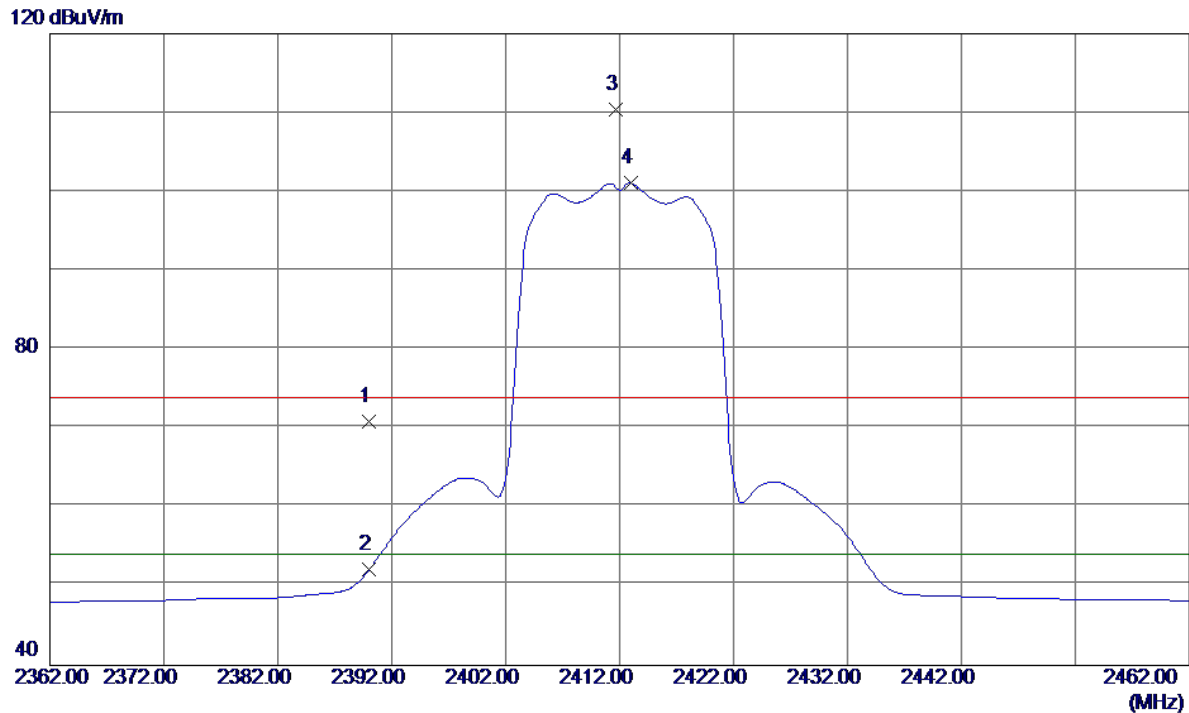


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	25.76	3.00	28.76	54.00	-25.24	AVG	
2	4824.0000	34.70	3.00	37.70	74.00	-36.30	Peak	



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

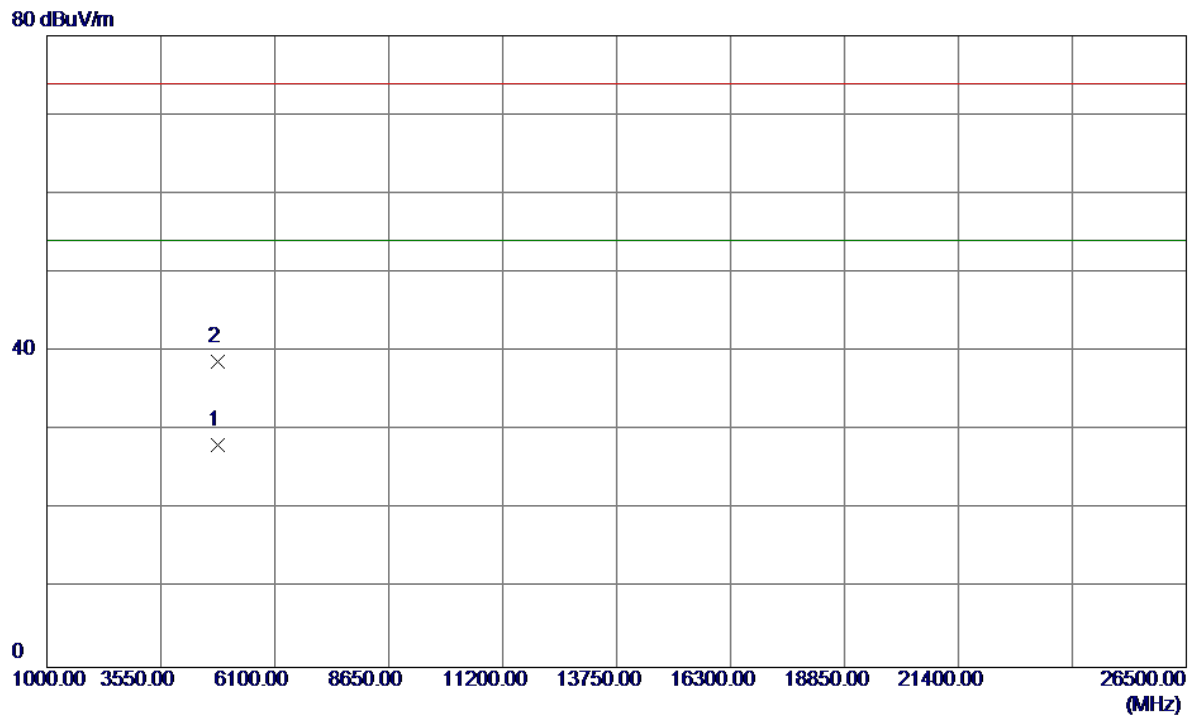
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	36.63	34.23	70.86	74.00	-3.14	Peak	
2	2390.0000	17.87	34.23	52.10	54.00	-1.90	AVG	
3	2411.7000	76.09	34.36	110.45	74.00	36.45	Peak	NO LIMIT
4	2413.0000	66.70	34.37	101.07	54.00	47.07	AVG	NO LIMIT

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

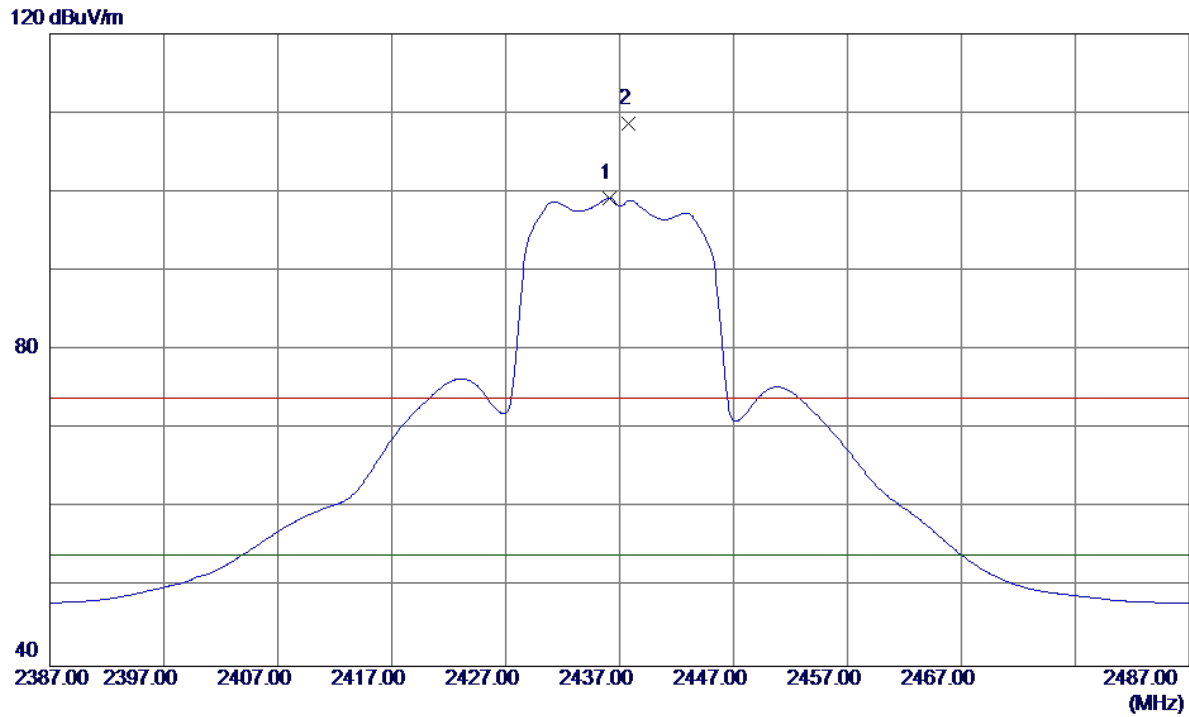
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.8000	25.23	3.00	28.23	54.00	-25.77	AVG	
2	4824.3000	35.71	3.00	38.71	74.00	-35.29	Peak	

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

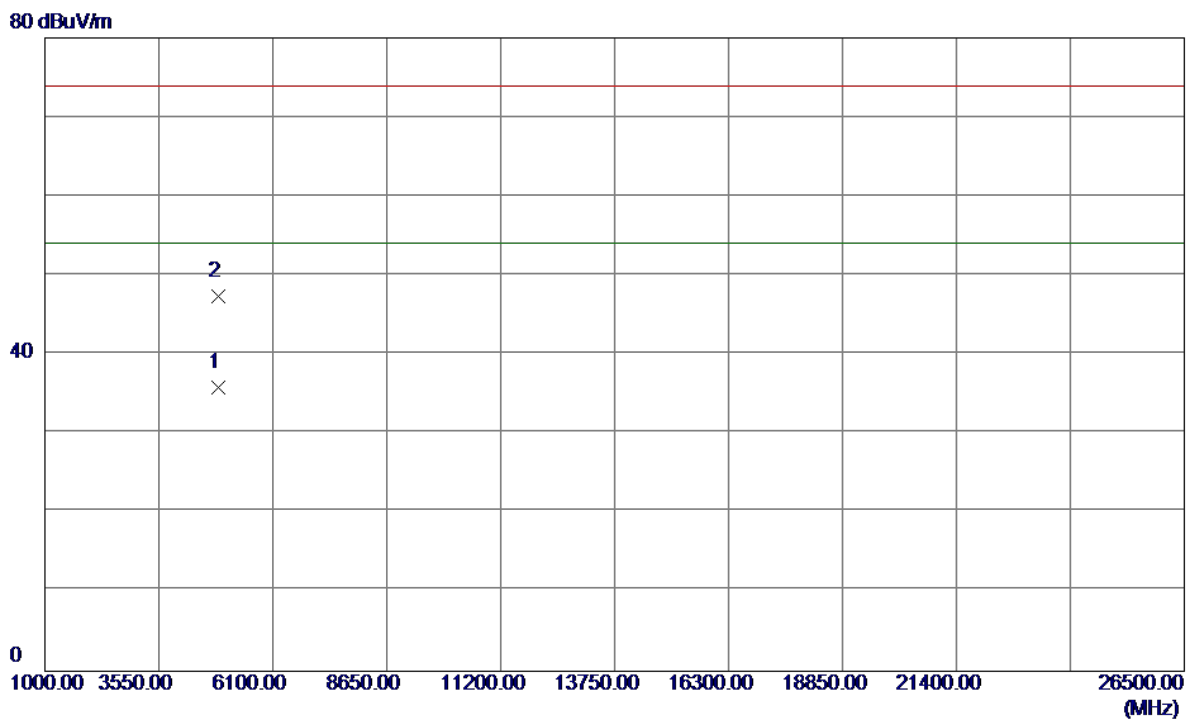
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.1000	64.69	34.50	99.19	54.00	45.19	AVG	NO LIMIT
2	2437.8000	74.17	34.51	108.68	74.00	34.68	Peak	NO LIMIT

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

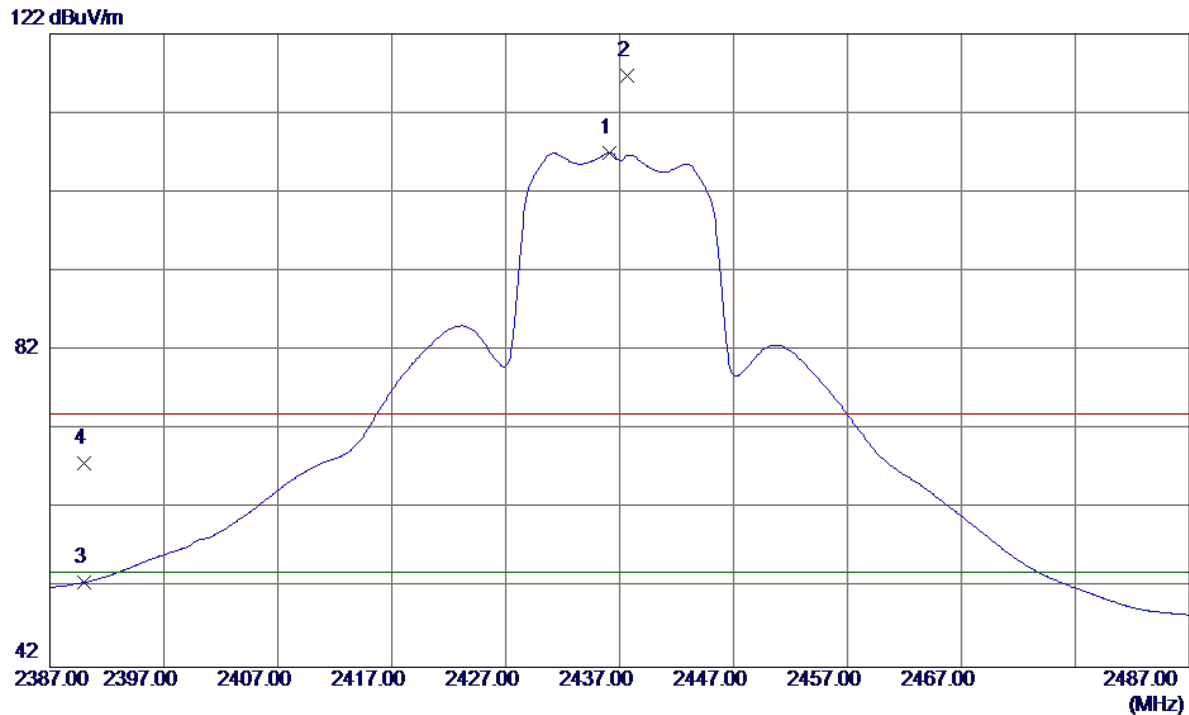
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	32.89	3.03	35.92	54.00	-18.08	AVG	
2	4874.5000	44.29	3.03	47.32	74.00	-26.68	Peak	

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

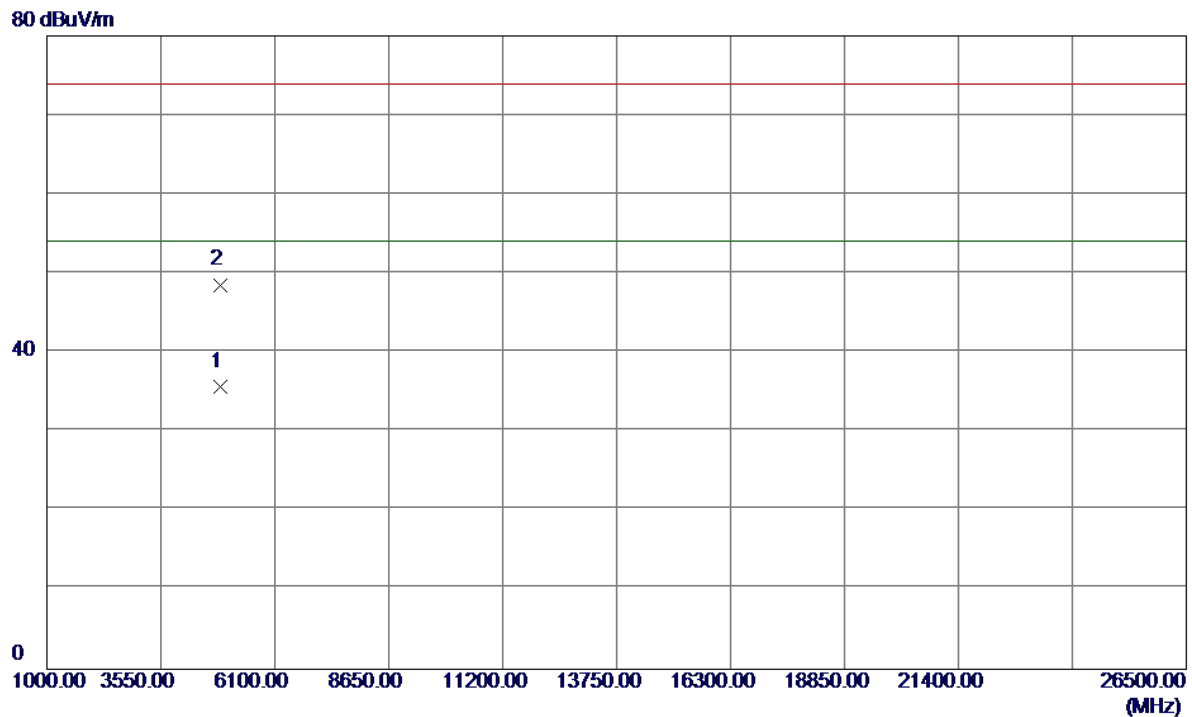
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	72.48	34.50	106.98	54.00	52.98	AVG	NO LIMIT
2	2437.7000	82.18	34.51	116.69	74.00	42.69	Peak	NO LIMIT
3	2390.0000	18.48	34.23	52.71	54.00	-1.29	AVG	
4	2390.0000	33.57	34.23	67.80	74.00	-6.20	Peak	

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

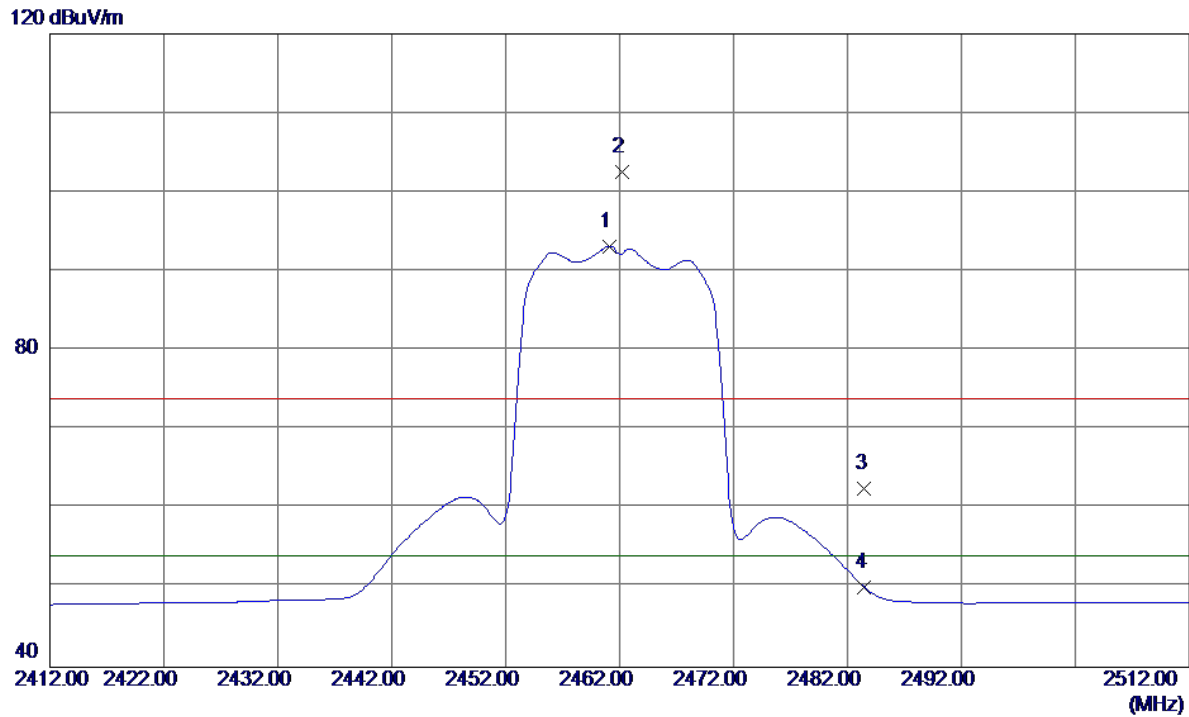
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.5000	32.73	3.03	35.76	54.00	-18.24	AVG	
2	4875.6000	45.53	3.03	48.56	74.00	-25.44	Peak	

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

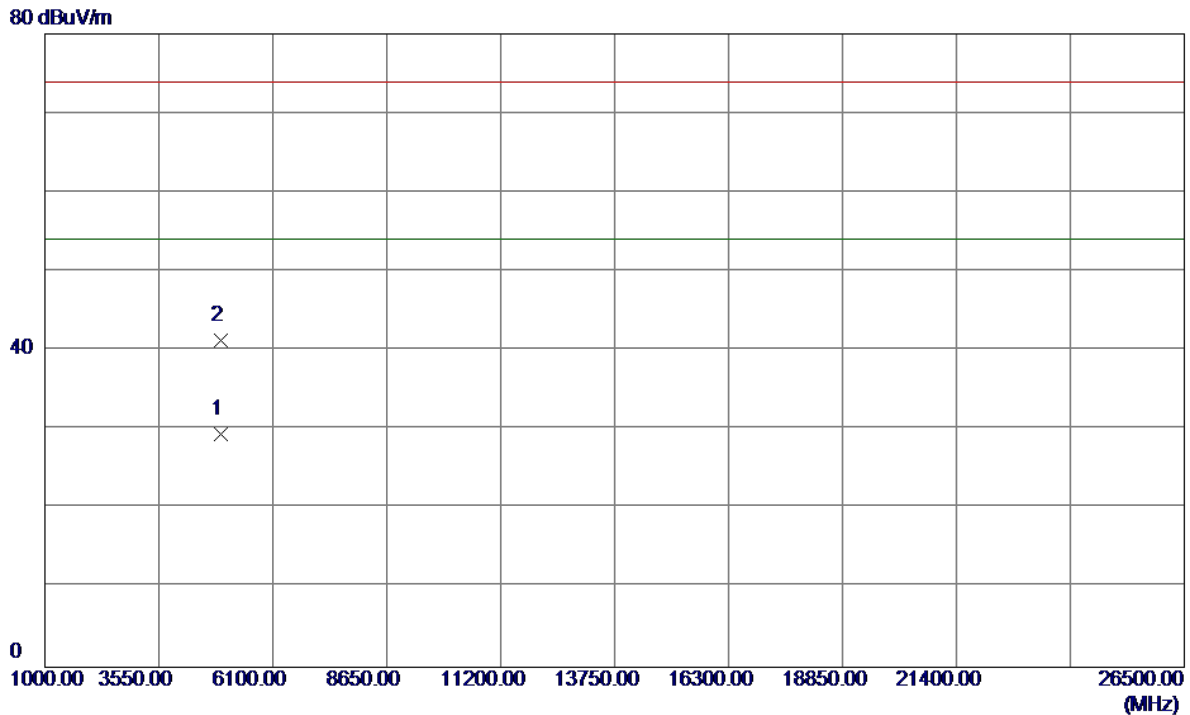
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	58.54	34.64	93.18	54.00	39.18	AVG	NO LIMIT
2	2462.2000	67.88	34.65	102.53	74.00	28.53	Peak	NO LIMIT
3	2483.5000	27.76	34.77	62.53	74.00	-11.47	Peak	
4	2483.5000	15.33	34.77	50.10	54.00	-3.90	AVG	

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

### Vertical

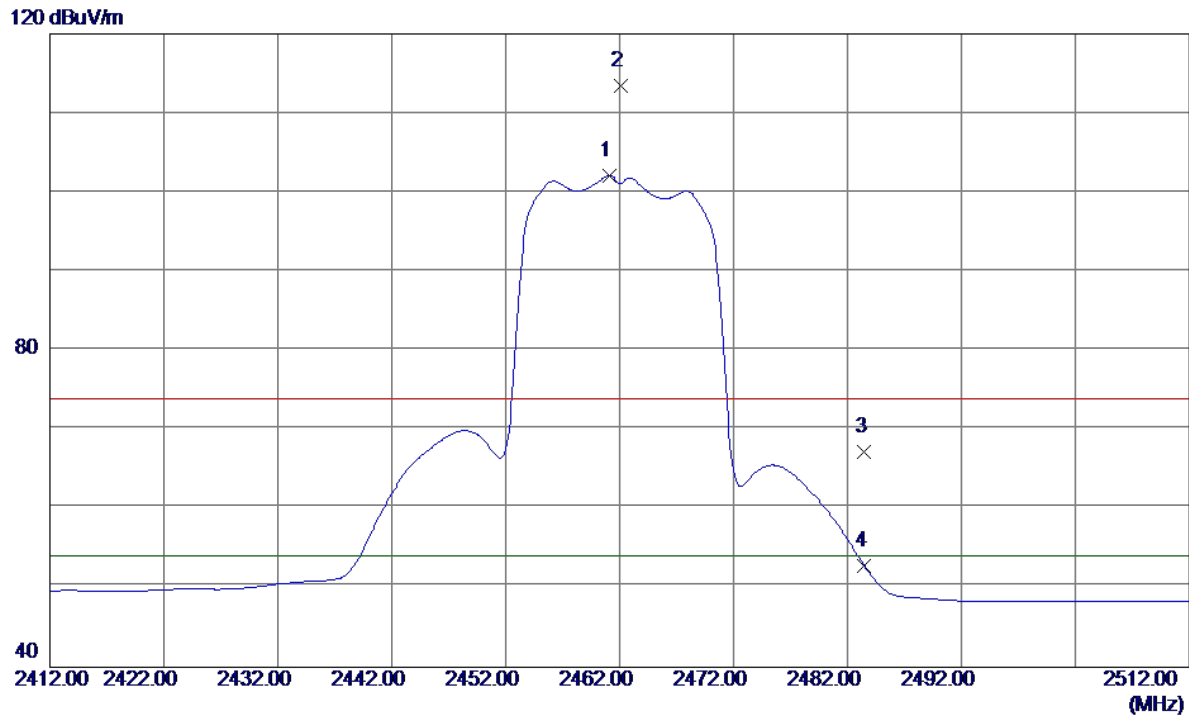


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.2000	26.38	3.05	29.43	54.00	-24.57	AVG	
2	4924.2000	38.20	3.05	41.25	74.00	-32.75	Peak	



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

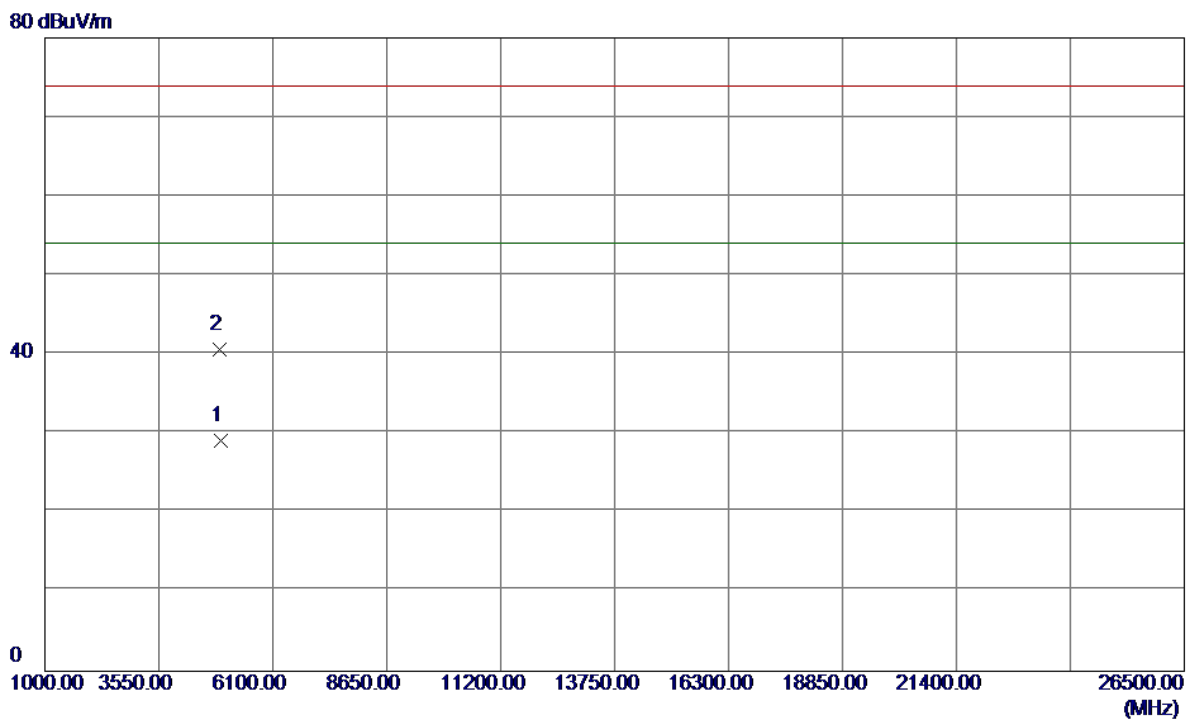
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	67.48	34.64	102.12	54.00	48.12	AVG	NO LIMIT
2	2462.1000	78.75	34.65	113.40	74.00	39.40	Peak	NO LIMIT
3	2483.5000	32.42	34.77	67.19	74.00	-6.81	Peak	
4	2483.5000	18.05	34.77	52.82	54.00	-1.18	AVG	

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

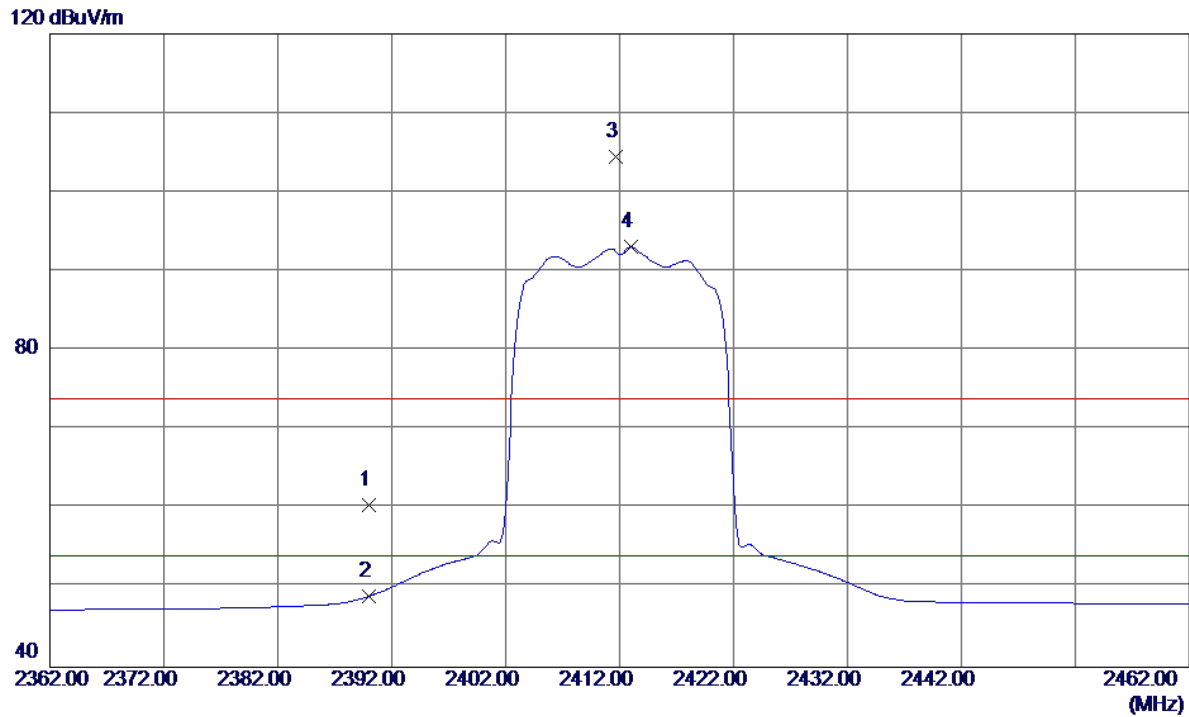
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.2000	26.02	3.05	29.07	54.00	-24.93	AVG	
2	4923.4000	37.54	3.05	40.59	74.00	-33.41	Peak	

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

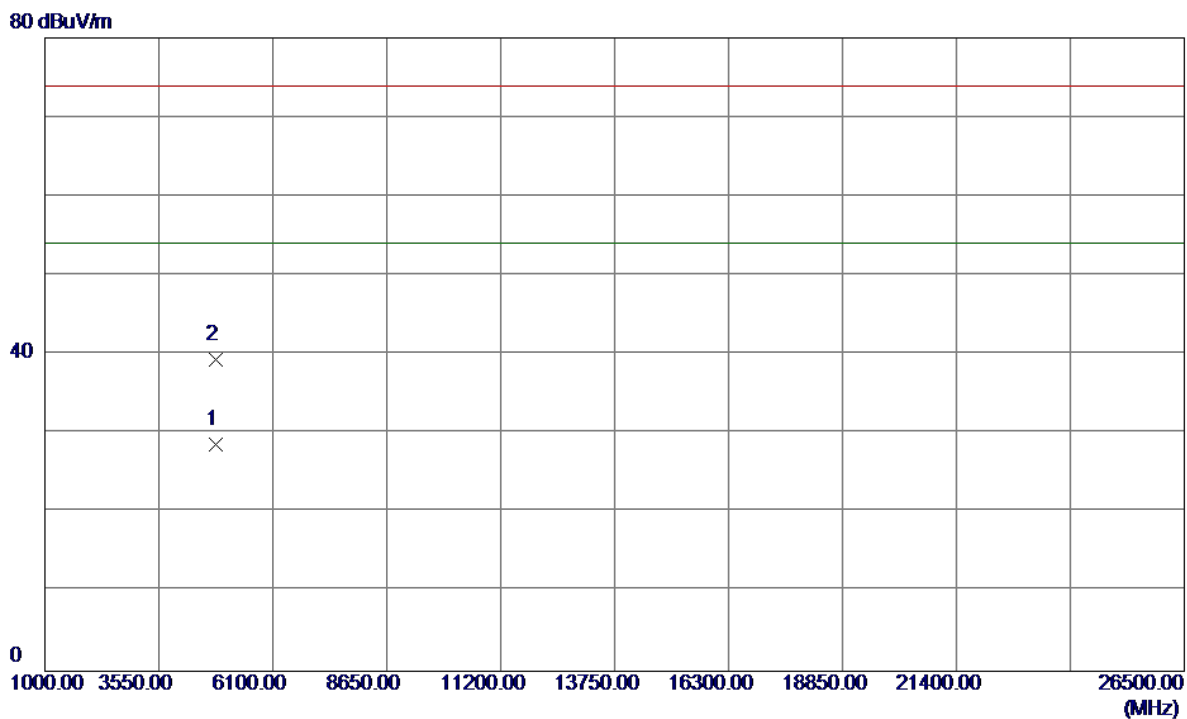
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26.25	34.23	60.48	74.00	-13.52	Peak	
2	2390.0000	14.74	34.23	48.97	54.00	-5.03	AVG	
3	2411.7000	70.18	34.36	104.54	74.00	30.54	Peak	NO LIMIT
4	2413.0000	58.70	34.37	93.07	54.00	39.07	AVG	NO LIMIT

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

### Vertical

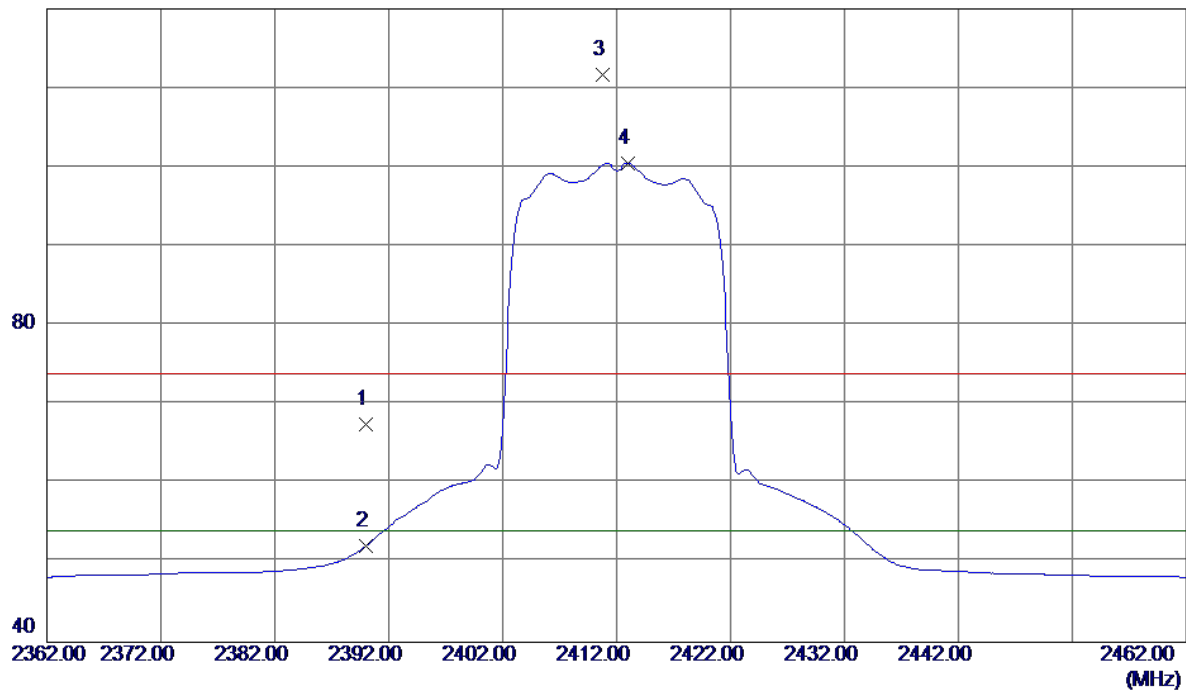


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.4000	25.70	3.00	28.70	54.00	-25.30	AVG	
2	4824.6000	36.29	3.00	39.29	74.00	-34.71	Peak	

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

### Horizontal

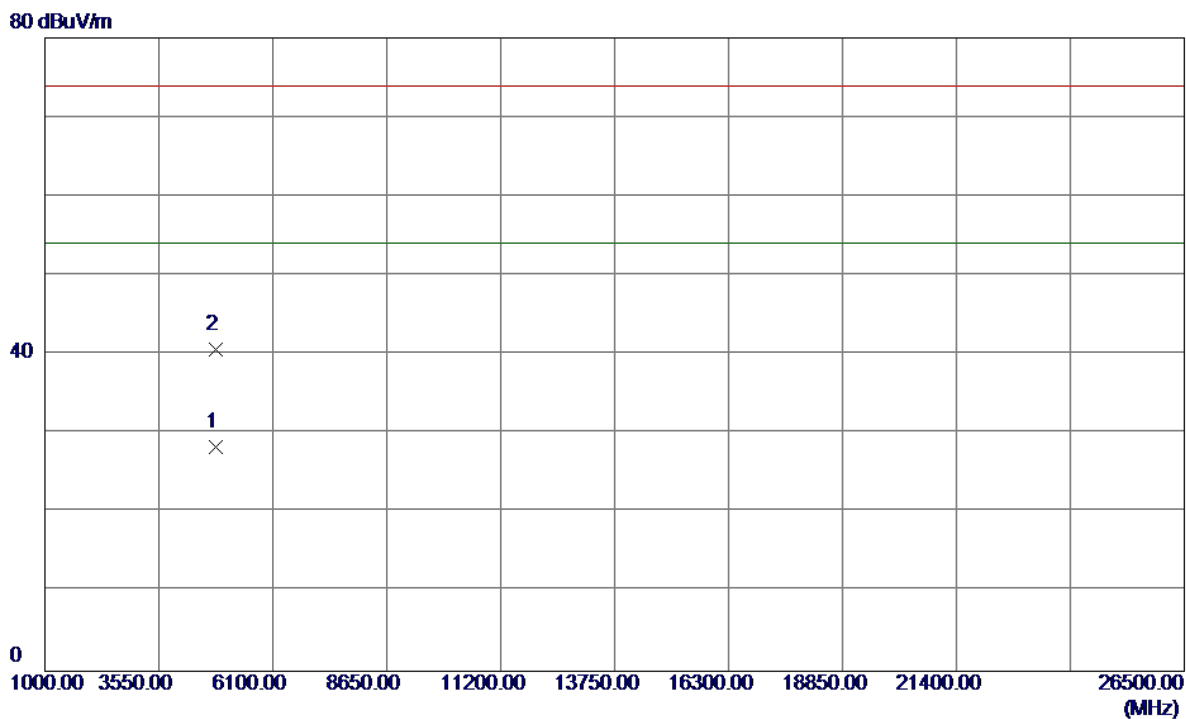
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	33.32	34.23	67.55	74.00	-6.45	Peak	
2	2390.0000	17.92	34.23	52.15	54.00	-1.85	AVG	
3	2410.8000	77.27	34.35	111.62	74.00	37.62	Peak	NO LIMIT
4	2413.0000	66.15	34.37	100.52	54.00	46.52	AVG	NO LIMIT

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

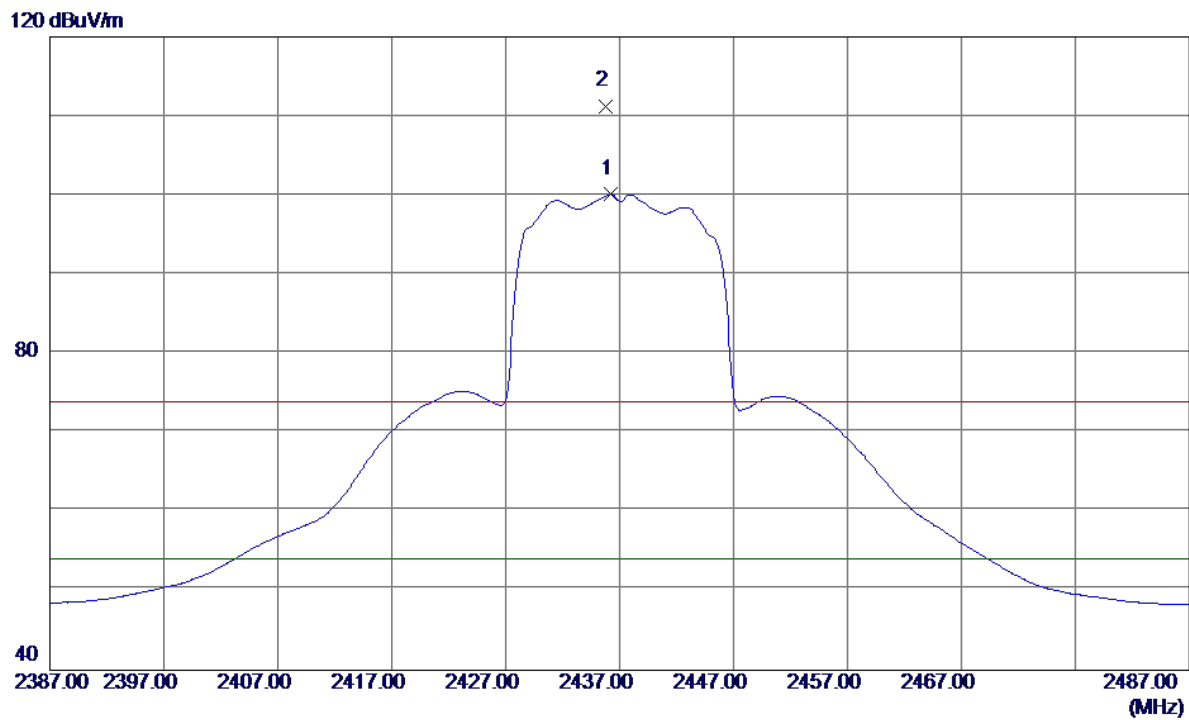
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.6000	25.36	3.00	28.36	54.00	-25.64	AVG	
2	4823.6000	37.62	3.00	40.62	74.00	-33.38	Peak	

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

### Vertical

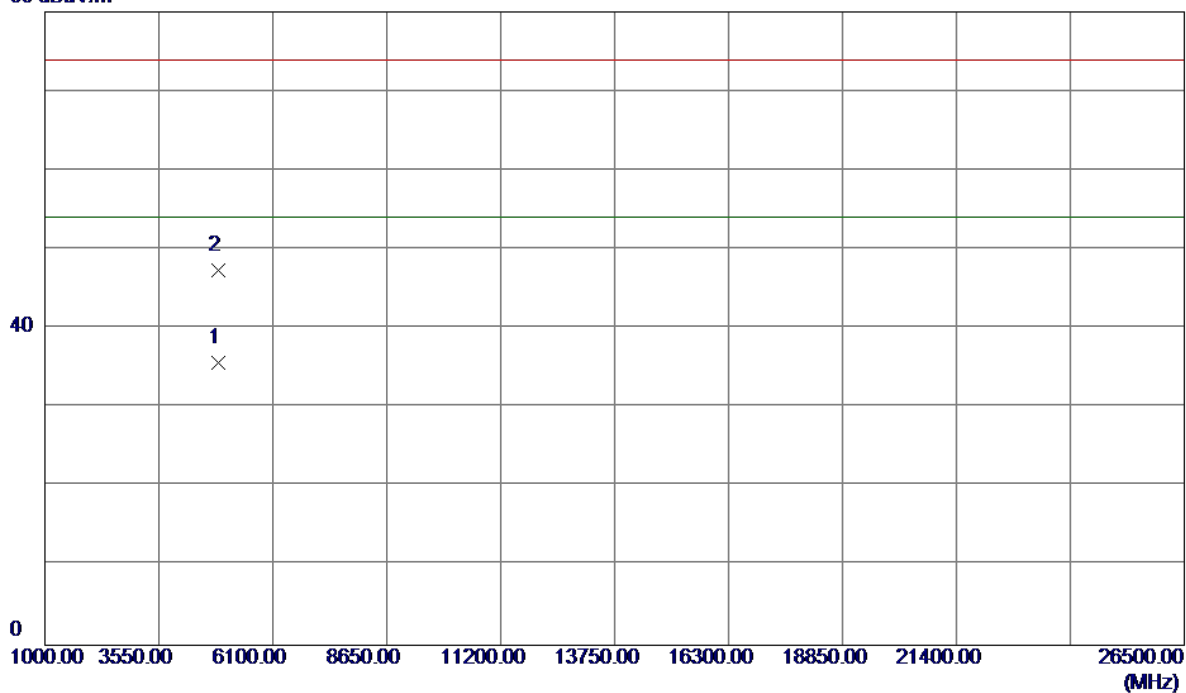


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.2000	65.59	34.50	100.09	54.00	46.09	AVG	NO LIMIT
2	2435.8000	76.78	34.50	111.28	74.00	37.28	Peak	NO LIMIT

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

### Vertical

80 dBuV/m

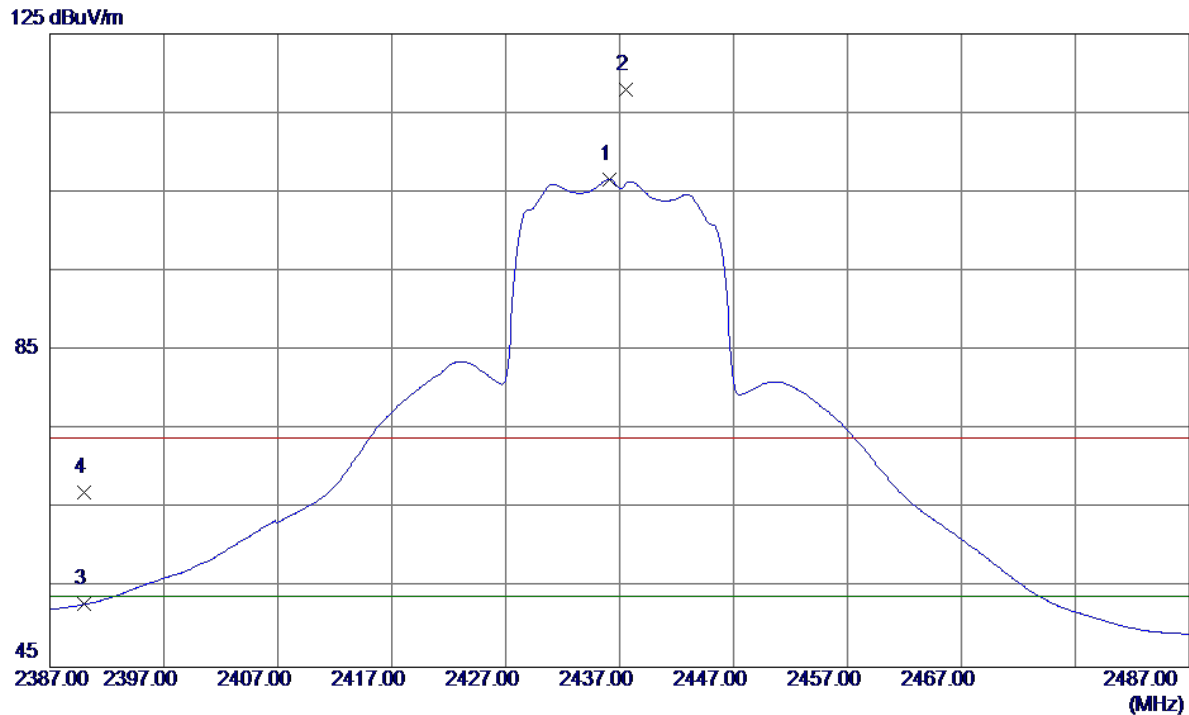


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.4000	32.58	3.03	35.61	54.00	-18.39	AVG	
2	4874.0000	44.33	3.03	47.36	74.00	-26.64	Peak	



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

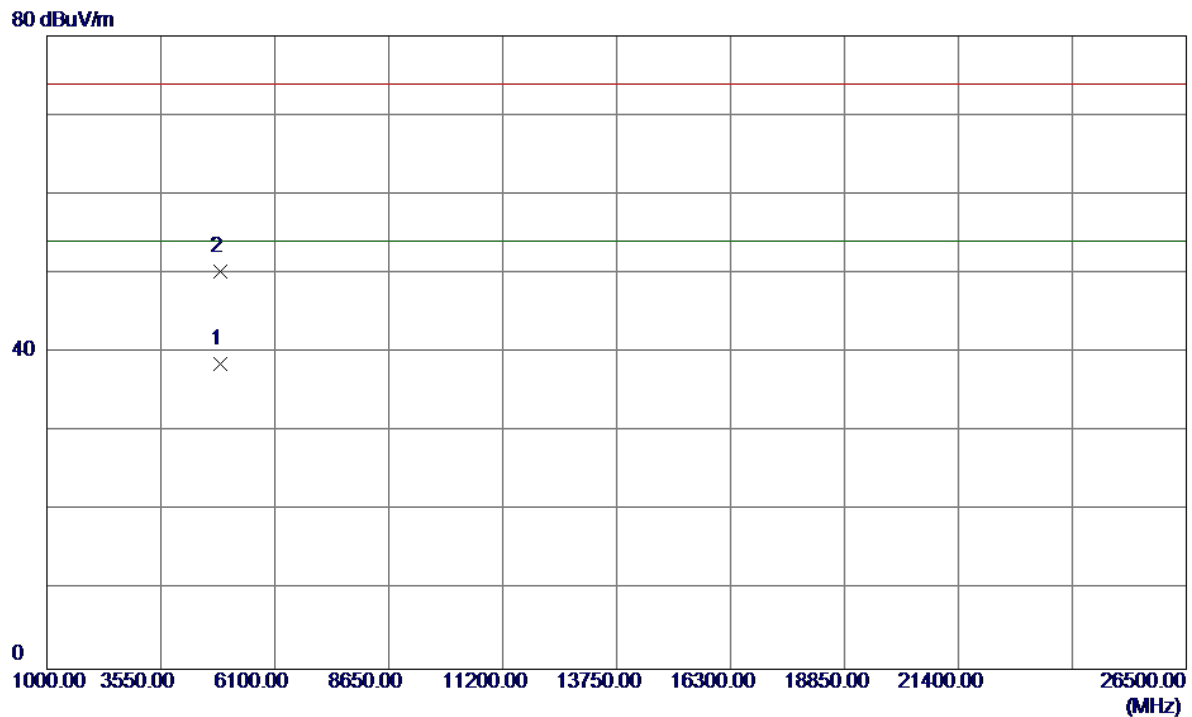
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	72.08	34.50	106.58	54.00	52.58	AVG	NO LIMIT
2	2437.6000	83.42	34.51	117.93	74.00	43.93	Peak	NO LIMIT
3	2390.0000	18.73	34.23	52.96	54.00	-1.04	AVG	
4	2390.0000	32.90	34.23	67.13	74.00	-6.87	Peak	

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

### Horizontal

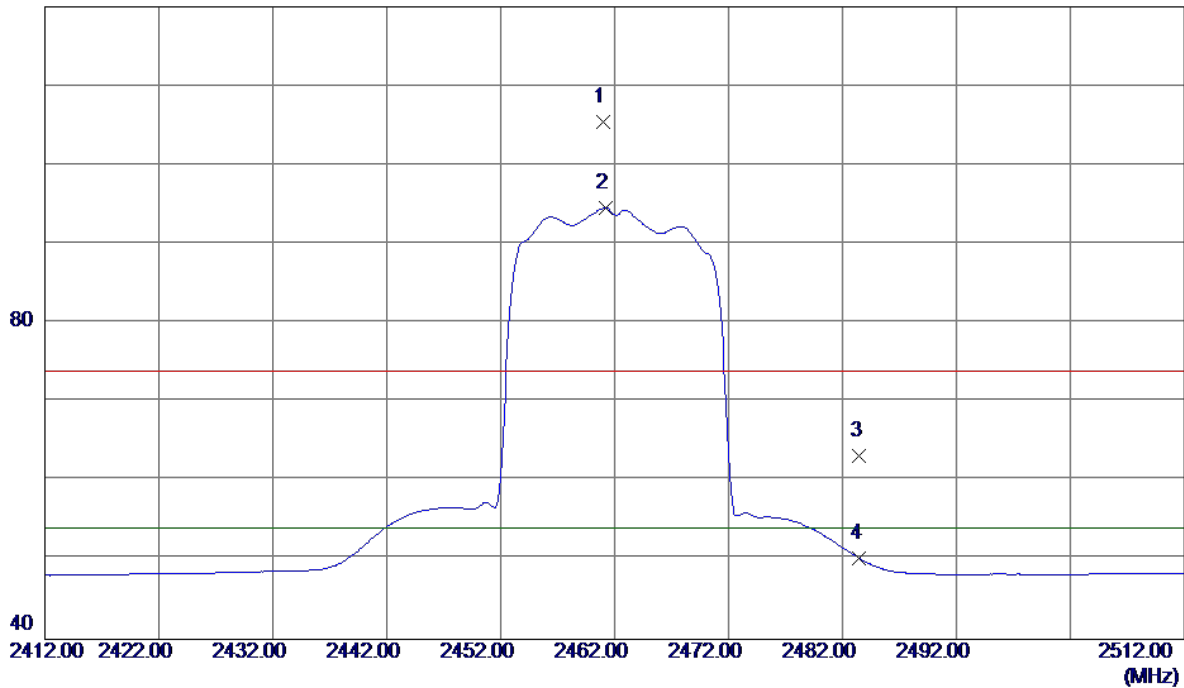


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.2000	35.60	3.03	38.63	54.00	-15.37	AVG	
2	4874.2000	47.18	3.03	50.21	74.00	-23.79	Peak	

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

### Vertical

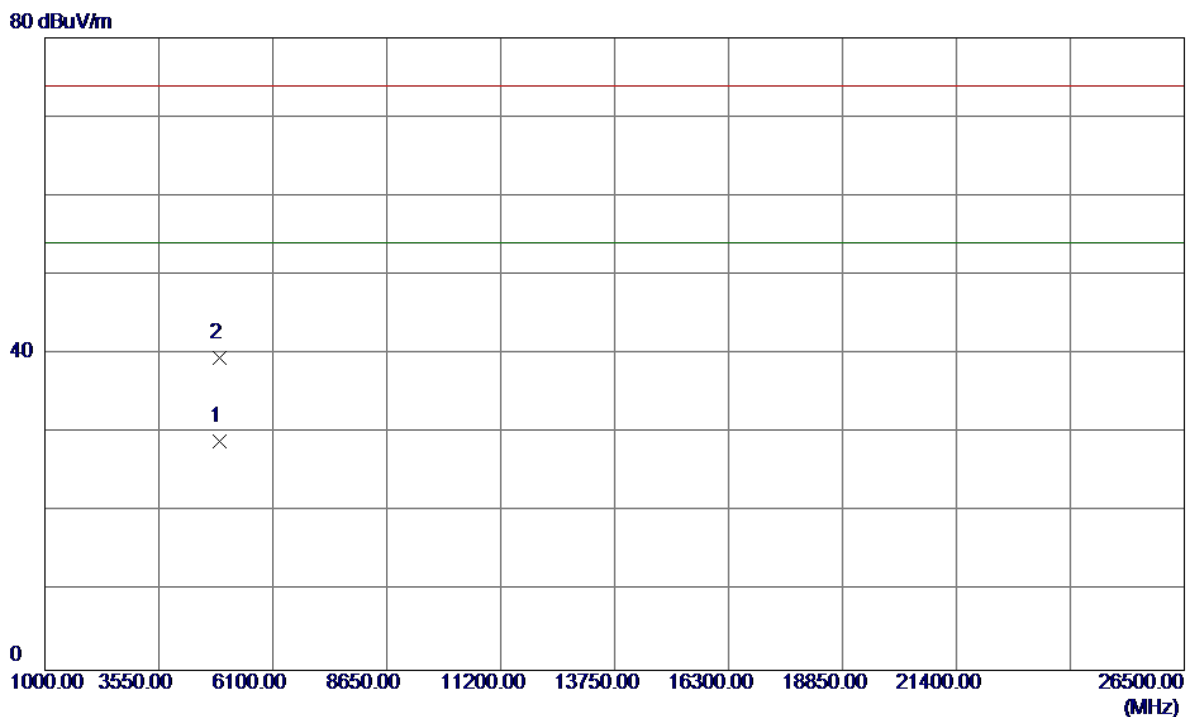
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.0000	70.84	34.64	105.48	74.00	31.48	Peak	NO LIMIT
2	2461.2000	59.95	34.64	94.59	54.00	40.59	AVG	NO LIMIT
3	2483.5000	28.50	34.77	63.27	74.00	-10.73	Peak	
4	2483.5000	15.45	34.77	50.22	54.00	-3.78	AVG	

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

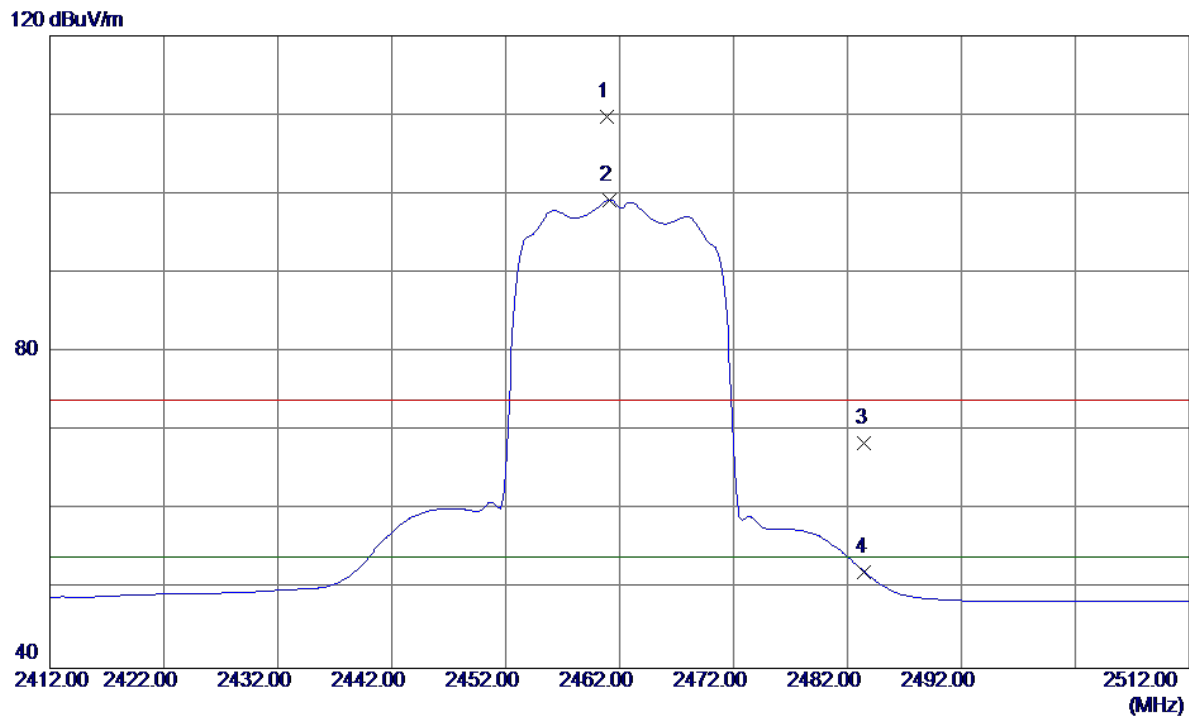
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.8000	25.86	3.05	28.91	54.00	-25.09	AVG	
2	4924.0000	36.44	3.05	39.49	74.00	-34.51	Peak	

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

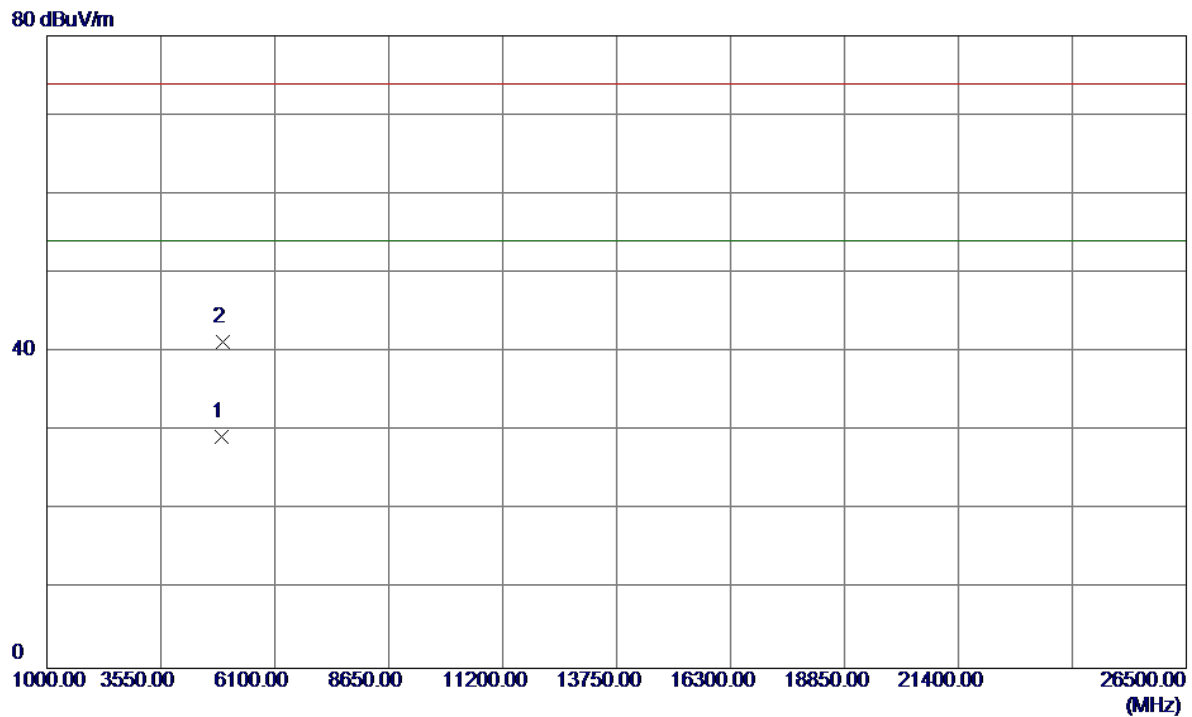
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2460.9000	75.04	34.64	109.68	74.00	35.68	Peak	NO LIMIT
2	2461.1000	64.61	34.64	99.25	54.00	45.25	AVG	NO LIMIT
3	2483.5000	33.66	34.77	68.43	74.00	-5.57	Peak	
4	2483.5000	17.43	34.77	52.20	54.00	-1.80	AVG	

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

### Horizontal

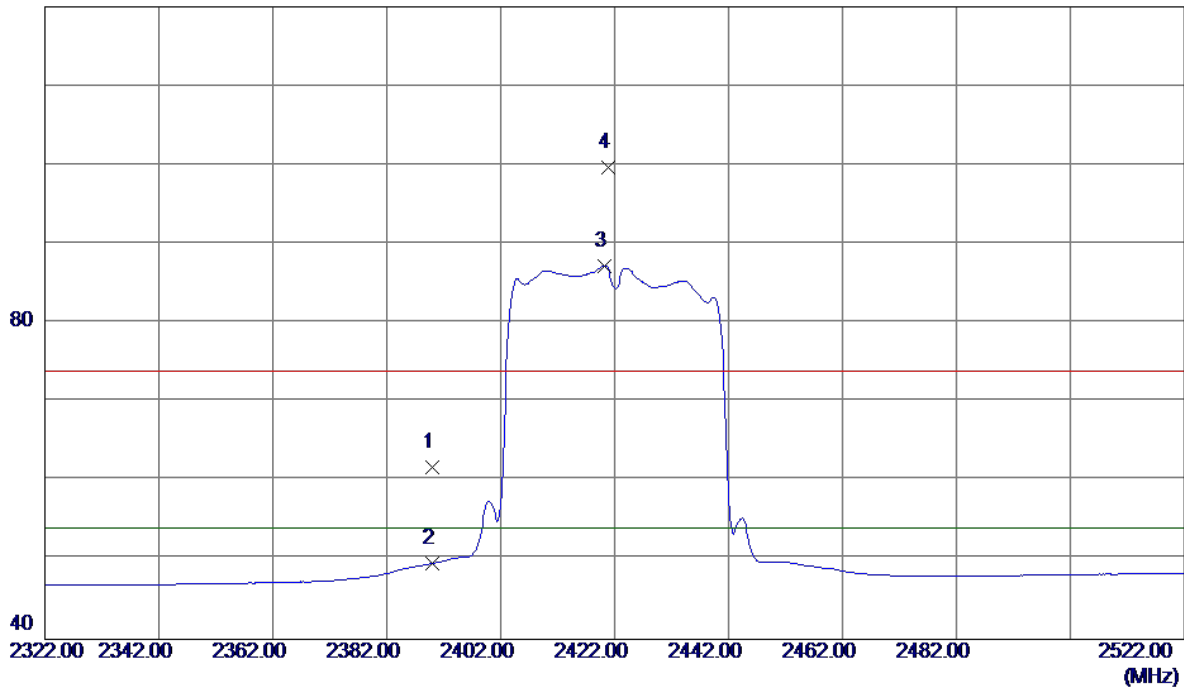


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4922.4000	26.22	3.05	29.27	54.00	-24.73	AVG	
2	4924.4000	38.23	3.05	41.28	74.00	-32.72	Peak	

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

### Vertical

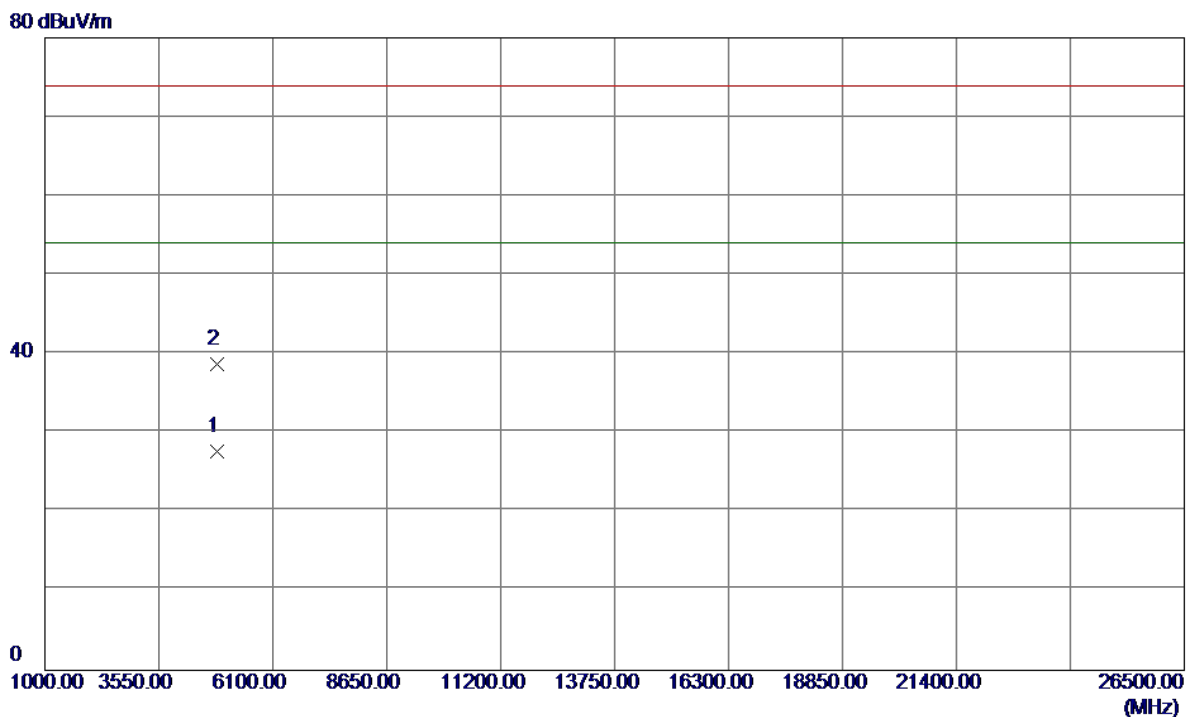
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	27.48	34.23	61.71	74.00	-12.29	Peak	
2	2390.0000	15.36	34.23	49.59	54.00	-4.41	AVG	
3	2420.2000	52.79	34.41	87.20	54.00	33.20	AVG	NO LIMIT
4	2420.8000	65.30	34.41	99.71	74.00	25.71	Peak	NO LIMIT

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

### Vertical

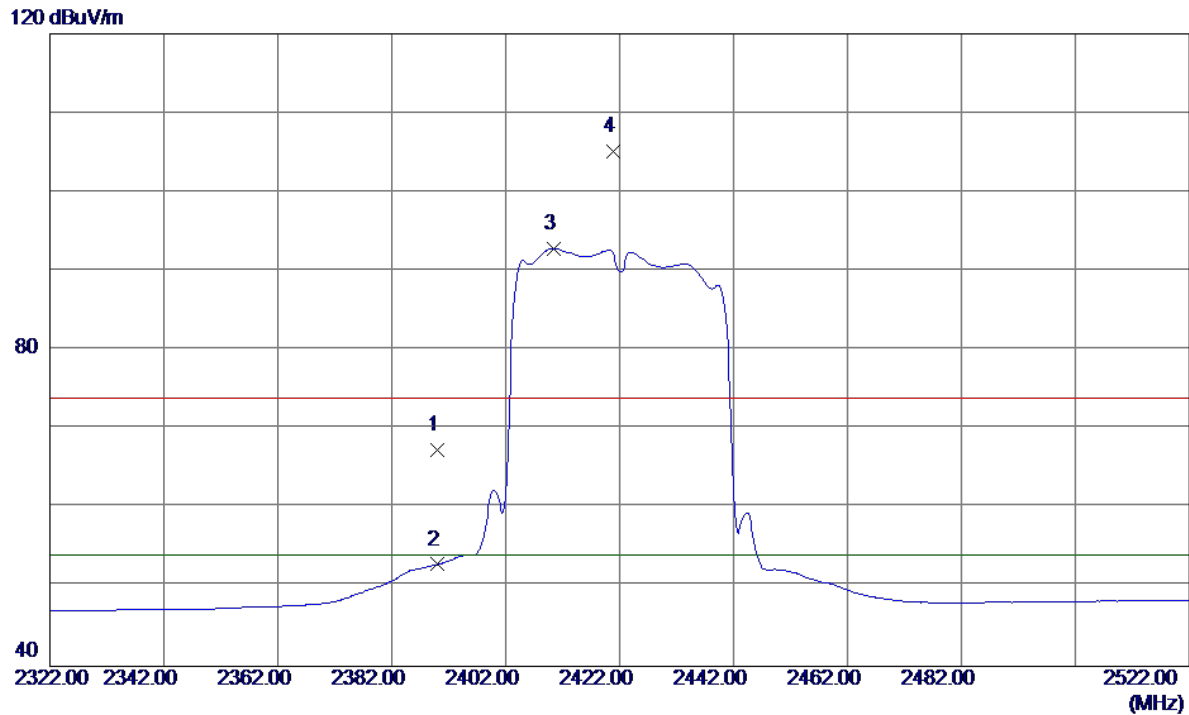


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.9000	24.74	3.01	27.75	54.00	-26.25	AVG	
2	4844.2000	35.75	3.01	38.76	74.00	-35.24	Peak	



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

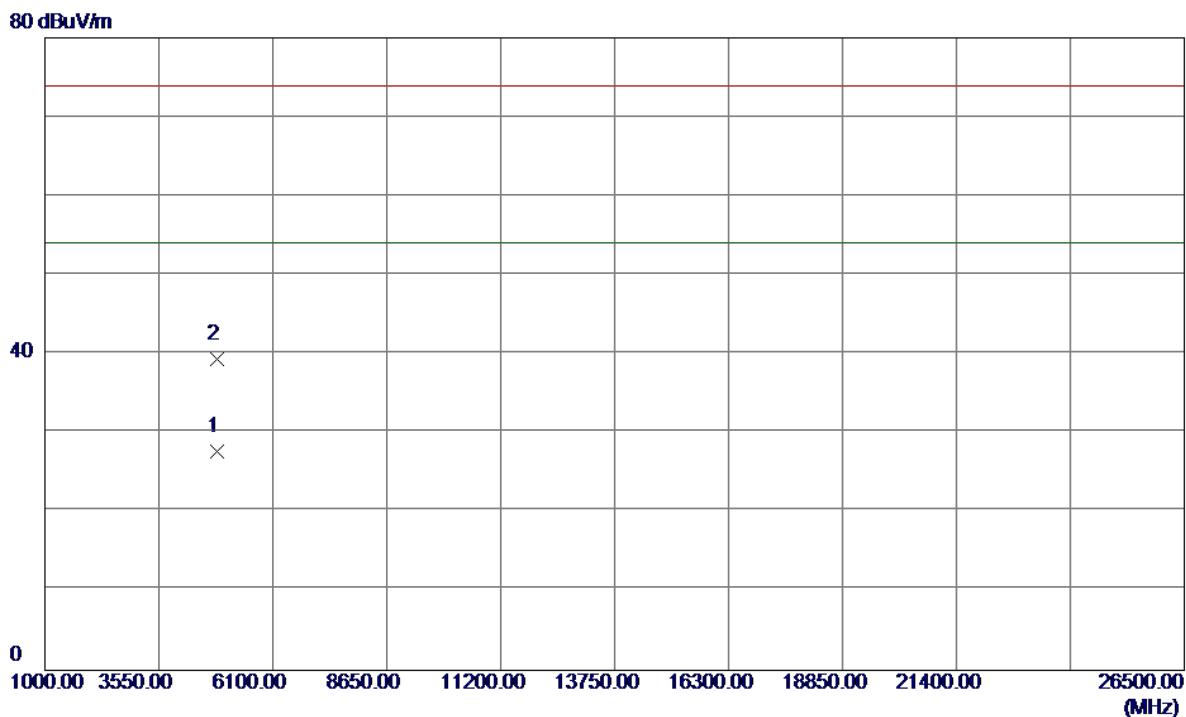
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	33.19	34.23	67.42	74.00	-6.58	Peak	
2	2390.0000	18.65	34.23	52.88	54.00	-1.12	AVG	
3	2410.4000	58.52	34.35	92.87	54.00	38.87	AVG	NO LIMIT
4	2420.8000	70.63	34.41	105.04	74.00	31.04	Peak	NO LIMIT

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

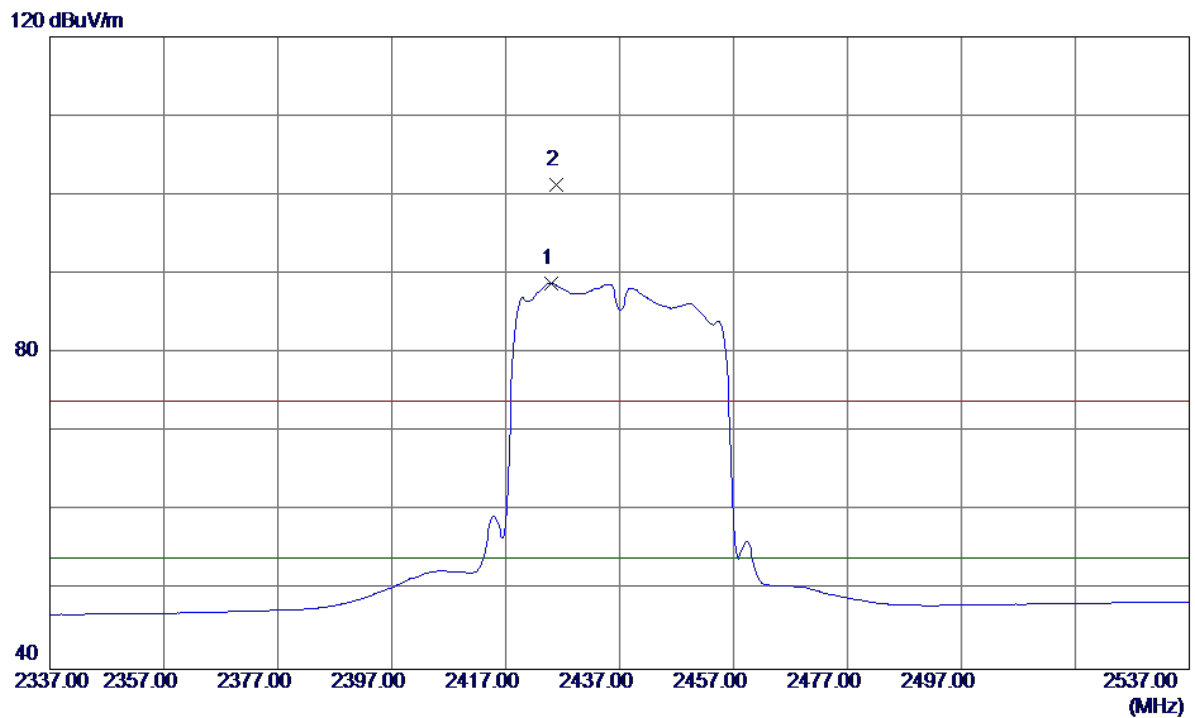
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4844.1500	24.71	3.01	27.72	54.00	-26.28	AVG	
2	4844.3000	36.31	3.01	39.32	74.00	-34.68	Peak	

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

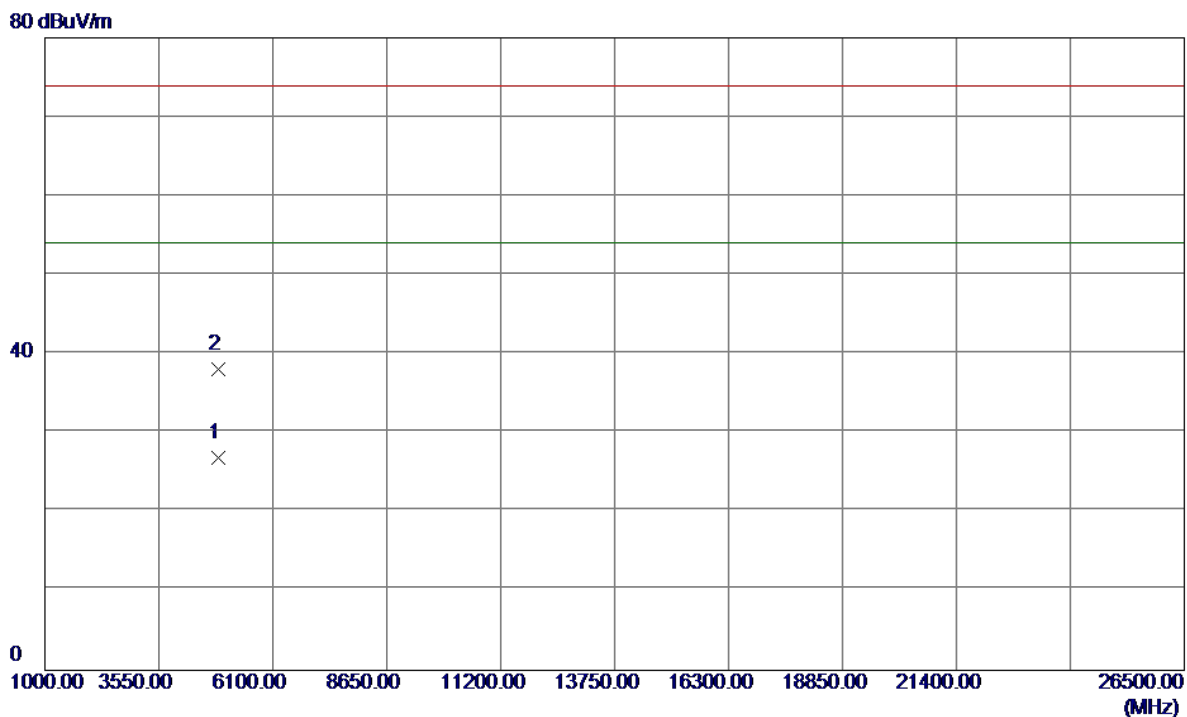
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2425.0000	54.41	34.44	88.85	54.00	34.85	AVG	NO LIMIT
2	2425.8000	66.80	34.44	101.24	74.00	27.24	Peak	NO LIMIT

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

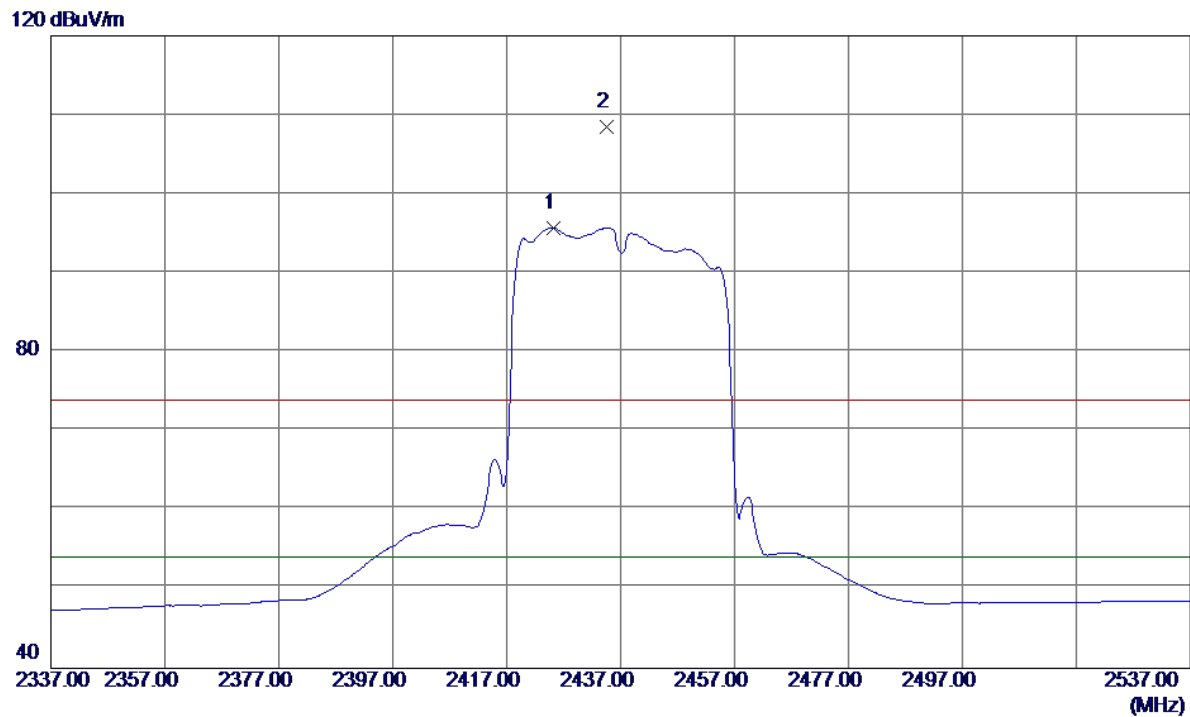
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9800	23.80	3.03	26.83	54.00	-27.17	AVG	
2	4874.0200	35.02	3.03	38.05	74.00	-35.95	Peak	

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

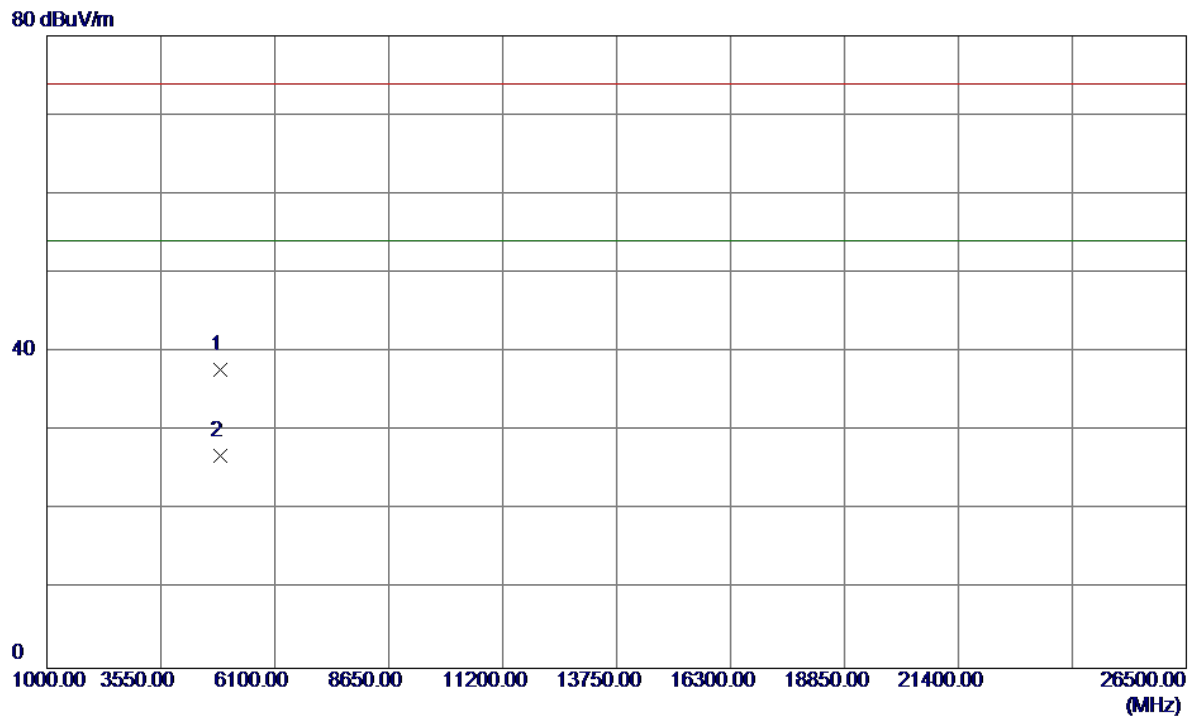
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2425.2000	61.22	34.44	95.66	54.00	41.66	AVG	NO LIMIT
2	2434.6000	73.91	34.49	108.40	74.00	34.40	Peak	NO LIMIT

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

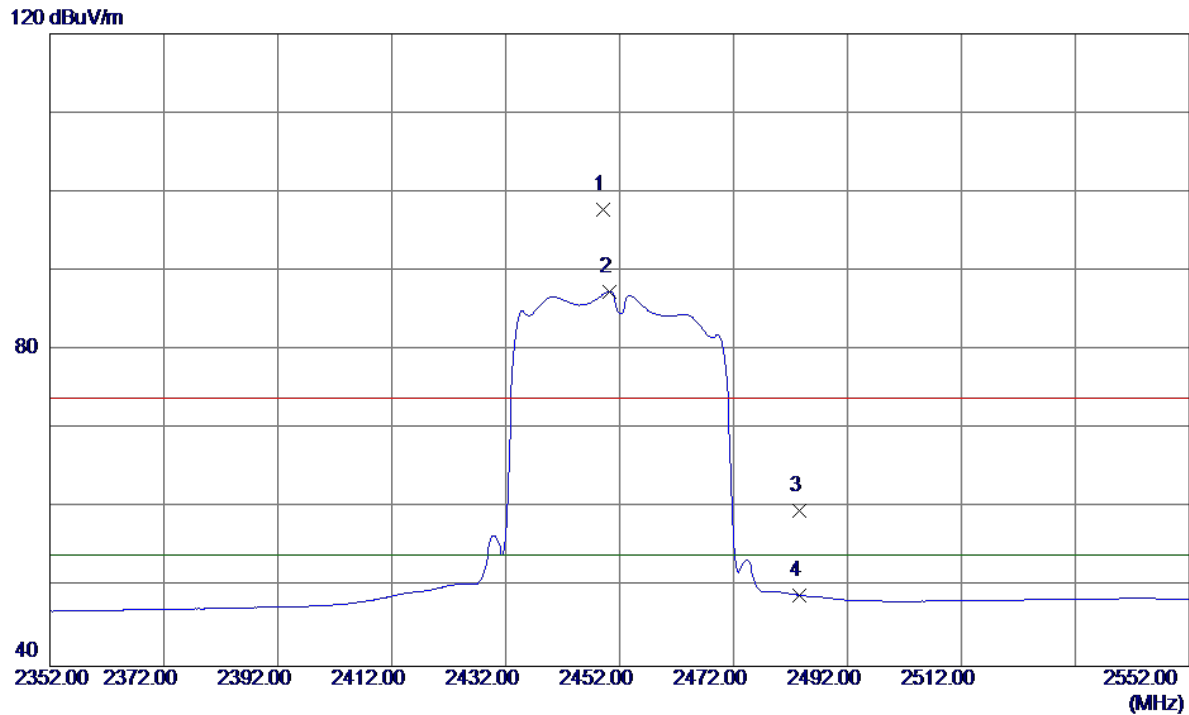
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0200	34.75	3.03	37.78	74.00	-36.22	Peak	
2	4874.1500	23.86	3.03	26.89	54.00	-27.11	AVG	

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

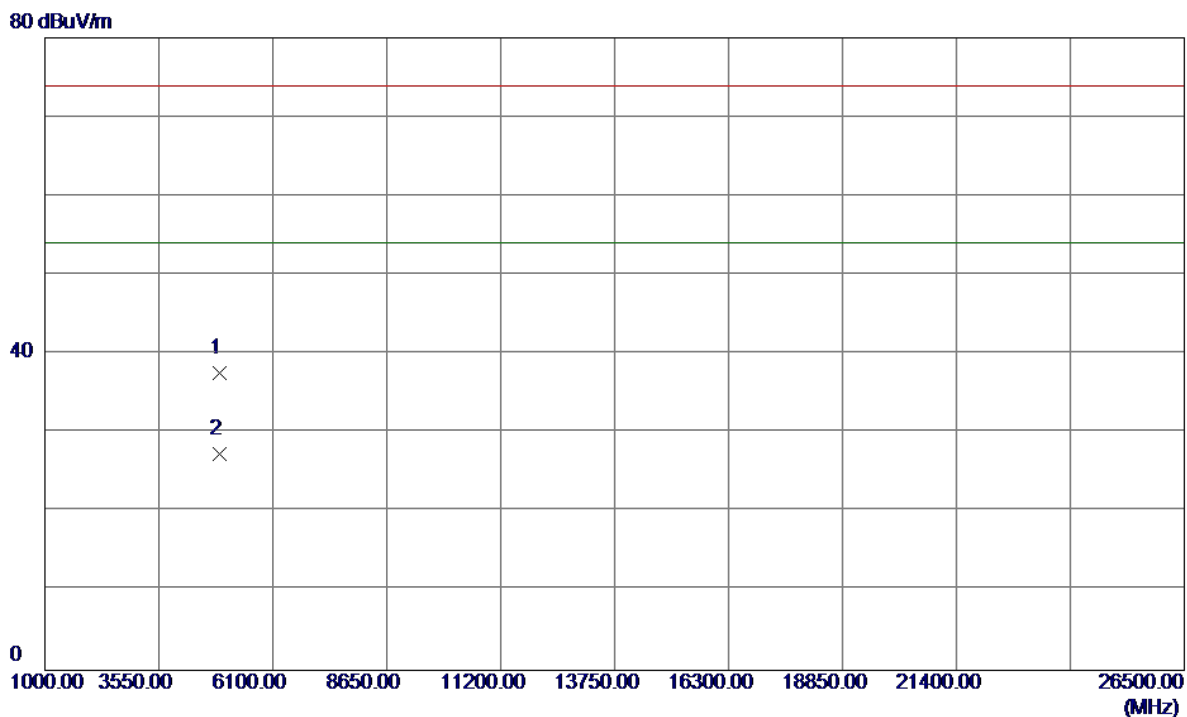
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2449.2000	63.11	34.58	97.69	74.00	23.69	Peak	NO LIMIT
2	2450.2000	52.85	34.58	87.43	54.00	33.43	AVG	NO LIMIT
3	2483.5000	24.87	34.77	59.64	74.00	-14.36	Peak	
4	2483.5000	14.23	34.77	49.00	54.00	-5.00	AVG	

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

### Vertical

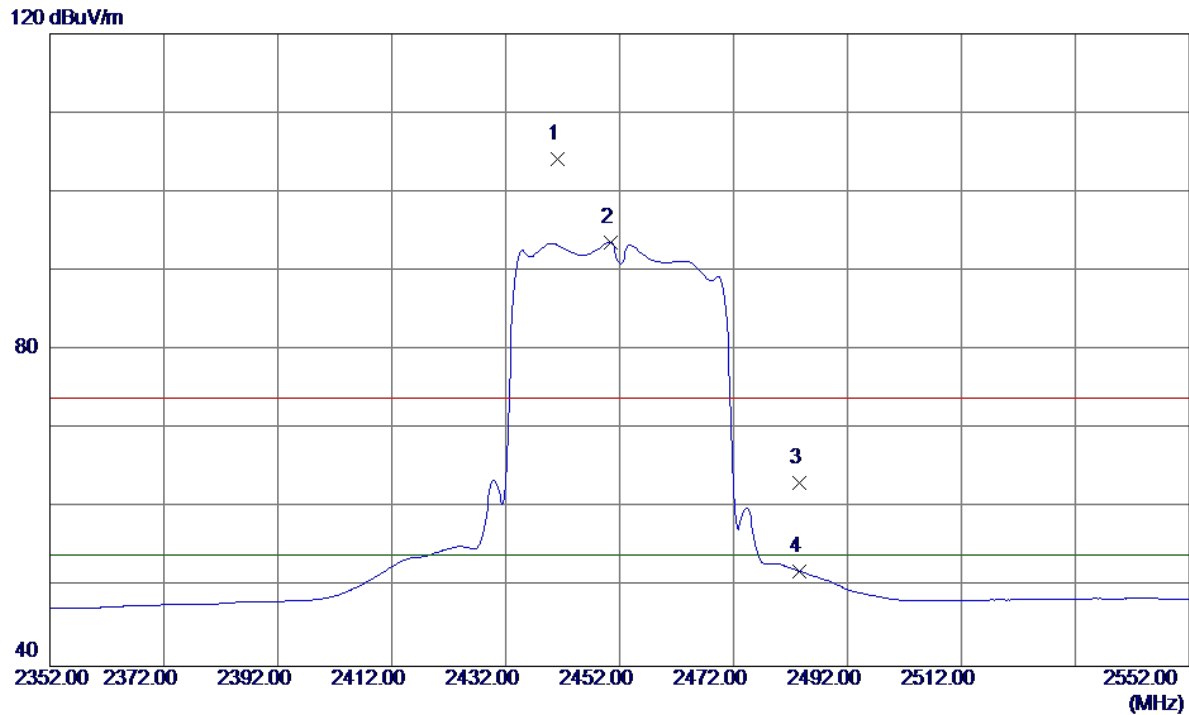


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904.0400	34.56	3.04	37.60	74.00	-36.40	Peak	
2	4904.1000	24.37	3.04	27.41	54.00	-26.59	AVG	



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

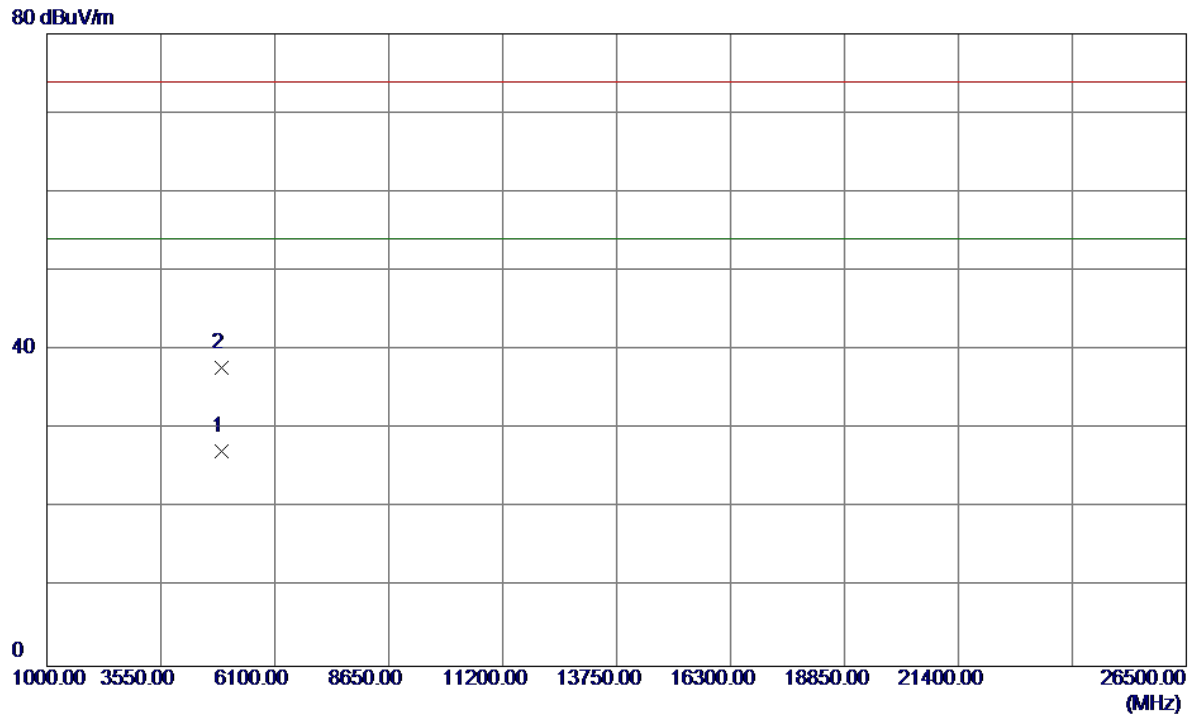
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2441.2000	69.68	34.53	104.21	74.00	30.21	Peak	NO LIMIT
2	2450.4000	59.06	34.58	93.64	54.00	39.64	AVG	NO LIMIT
3	2483.5000	28.42	34.77	63.19	74.00	-10.81	Peak	
4	2483.5000	17.26	34.77	52.03	54.00	-1.97	AVG	

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

### Horizontal

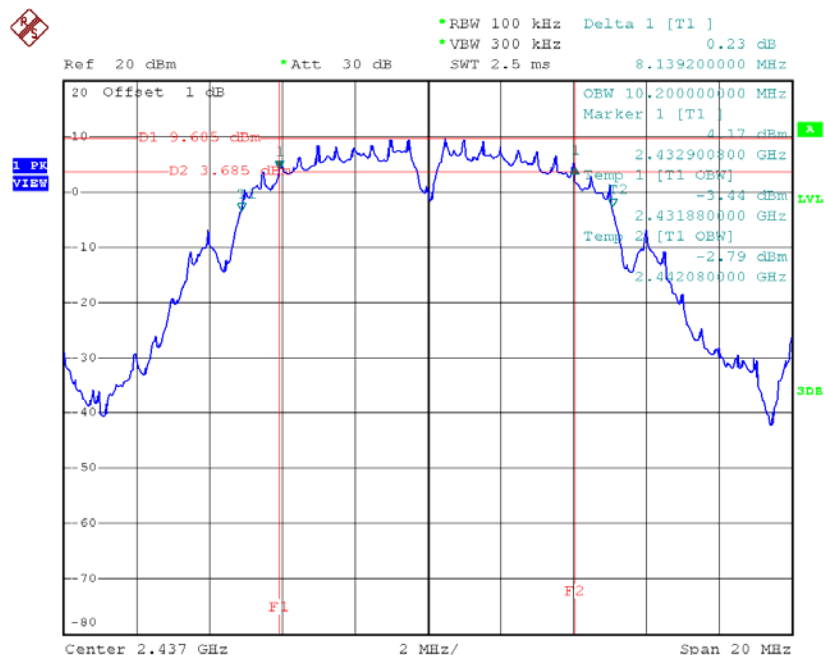


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4904.0400	24.20	3.04	27.24	54.00	-26.76	AVG	
2	4904.1200	34.72	3.04	37.76	74.00	-36.24	Peak	

## **ATTACHMENT E - BANDWIDTH**

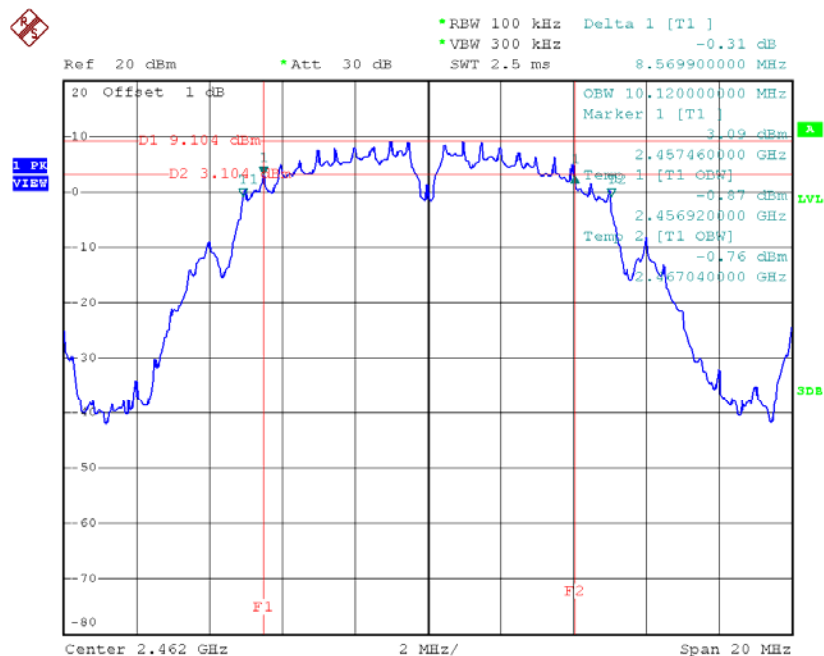


# TX CH06



Date: 22.AUG.2015 14:36:23

# TX CH11

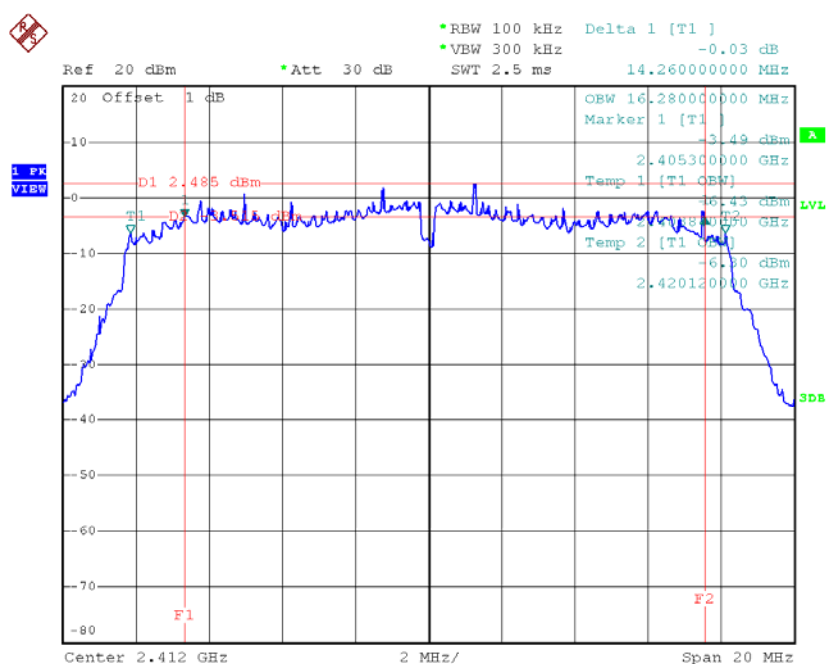


Date: 22.AUG.2015 14:39:39

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

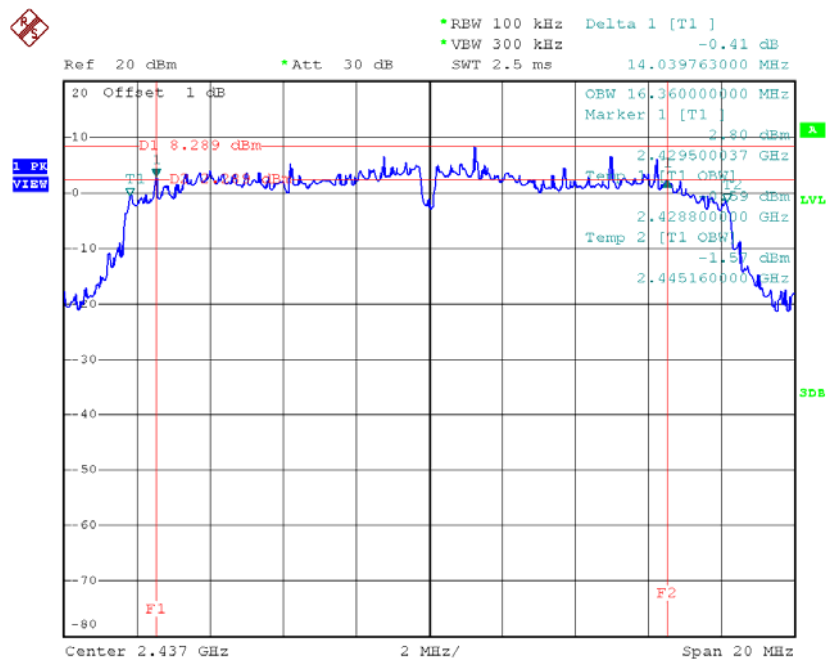
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	14.26	16.28	500	Complies
2437	14.04	16.36	500	Complies
2462	14.22	16.28	500	Complies

TX CH01



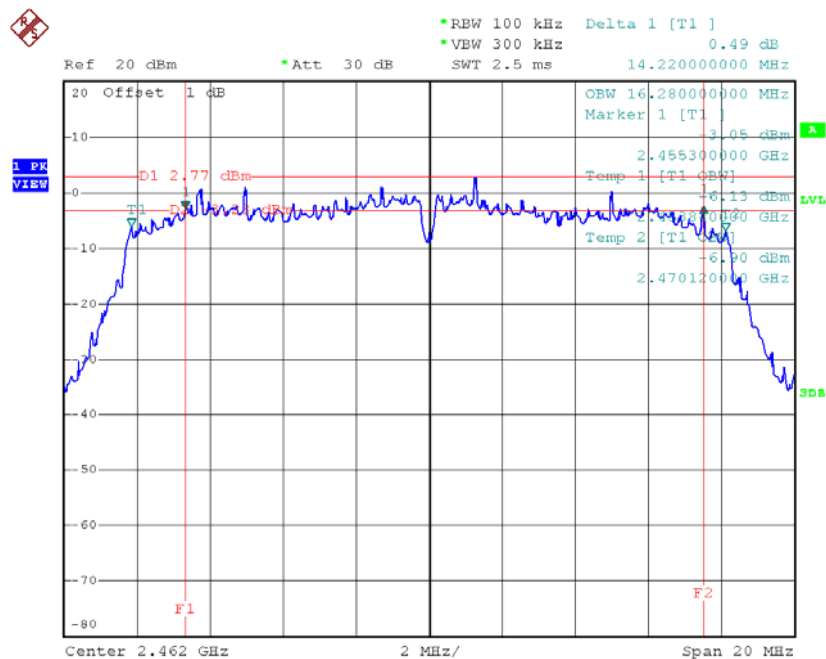
Date: 22.AUG.2015 14:41:23

## TX CH06



Date: 22.AUG.2015 14:42:42

## TX CH11

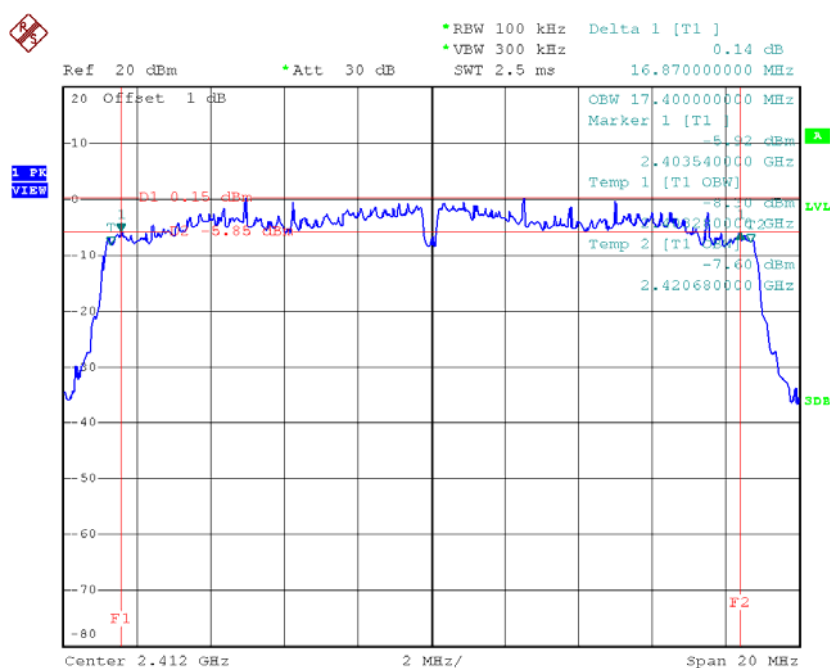


Date: 22.AUG.2015 14:43:55

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.87	17.40	500	Complies
2437	14.24	17.44	500	Complies
2462	15.17	17.40	500	Complies

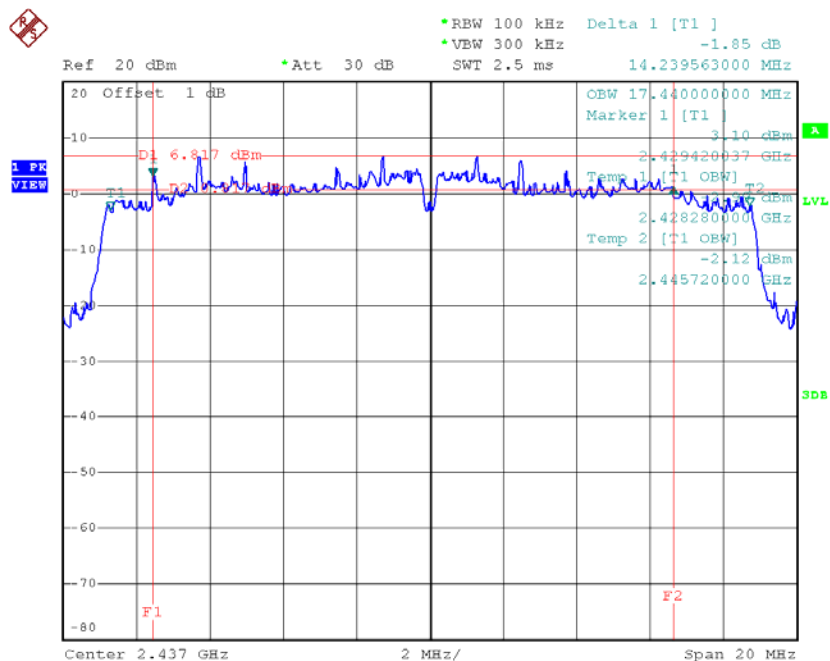
**TX CH01**



Date: 22.AUG.2015 14:46:05

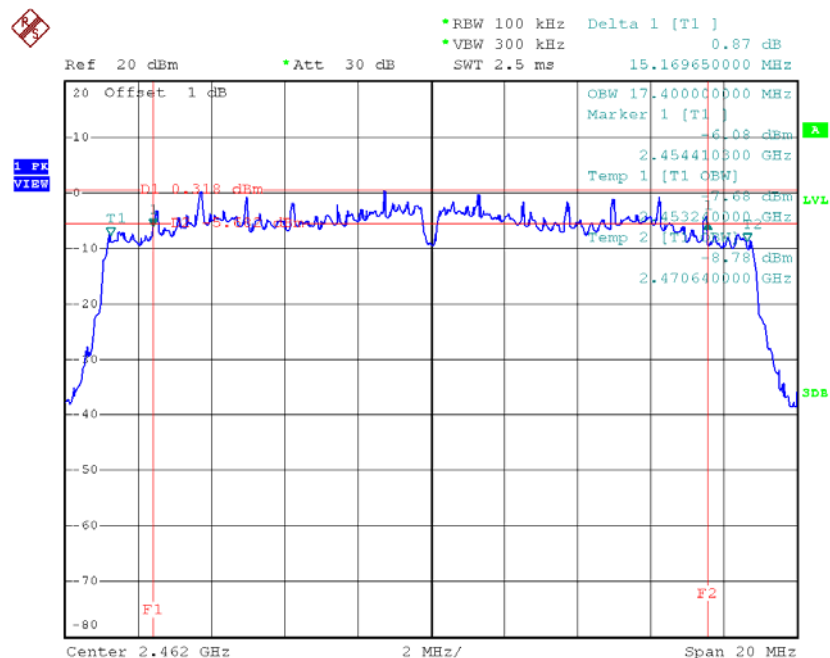


## TX CH06



Date: 22.AUG.2015 14:47:45

## TX CH11

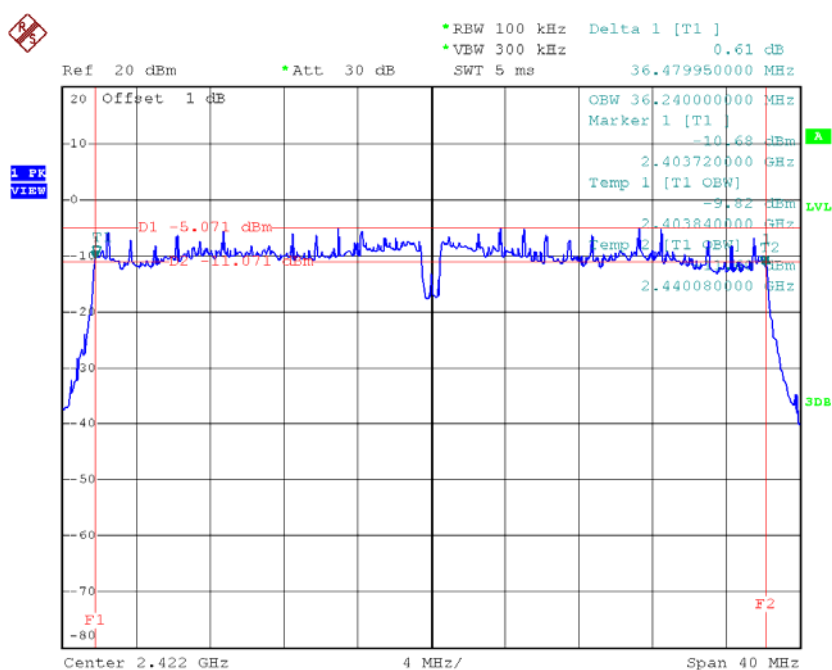


Date: 22.AUG.2015 14:49:22

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

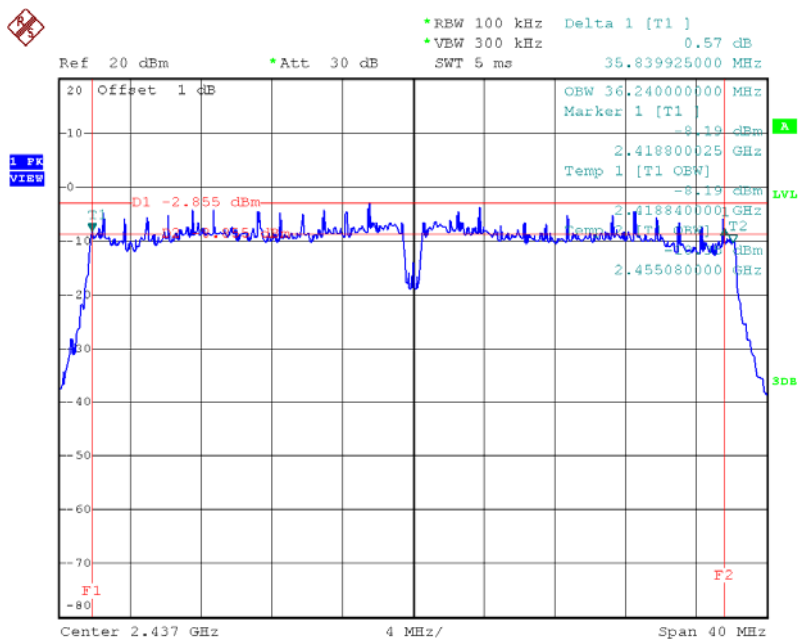
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.48	36.24	500	Complies
2437	35.84	36.24	500	Complies
2452	35.77	36.24	500	Complies

TX CH03



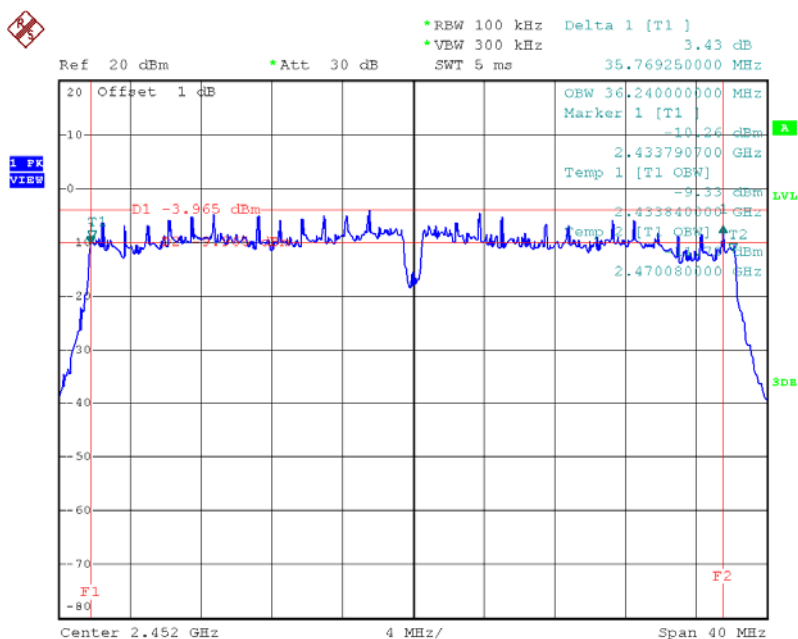
Date: 22.AUG.2015 15:01:42

### TX CH06



Date: 22.AUG.2015 15:02:54

### TX CH09



Date: 22.AUG.2015 15:03:57

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

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.77	0.09	30.00	1.00	Complies
2437	20.45	0.11	30.00	1.00	Complies
2462	20.06	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	18.25	0.07	30.00	1.00	Complies
2437	24.37	0.27	30.00	1.00	Complies
2462	18.86	0.08	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	18.70	0.07	30.00	1.00	Complies
2437	23.65	0.23	30.00	1.00	Complies
2462	17.42	0.06	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	18.40	0.07	30.00	1.00	Complies
2437	24.30	0.27	30.00	1.00	Complies
2462	19.61	0.09	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	21.46	0.14	30.00	1.00	Complies
2437	26.99	0.50	30.00	1.00	Complies
2462	21.76	0.15	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.30	0.03	30.00	1.00	Complies
2437	16.30	0.04	30.00	1.00	Complies
2452	15.14	0.03	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	18.80	0.08	30.00	1.00	Complies
2437	17.10	0.05	30.00	1.00	Complies
2452	16.63	0.05	30.00	1.00	Complies

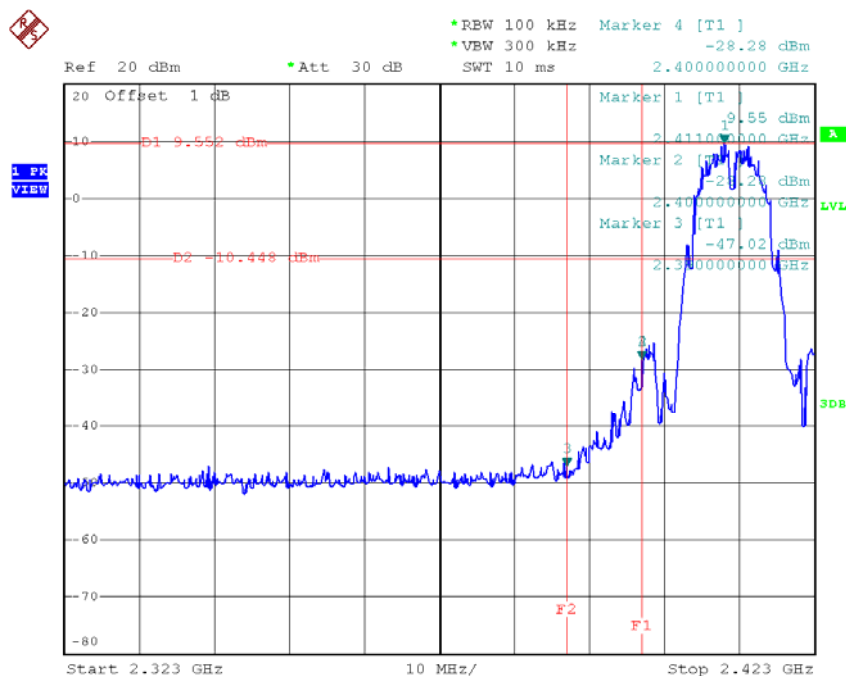
Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.41	0.11	30.00	1.00	Complies
2437	19.54	0.09	30.00	1.00	Complies
2452	19.03	0.08	30.00	1.00	Complies

## **ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION**



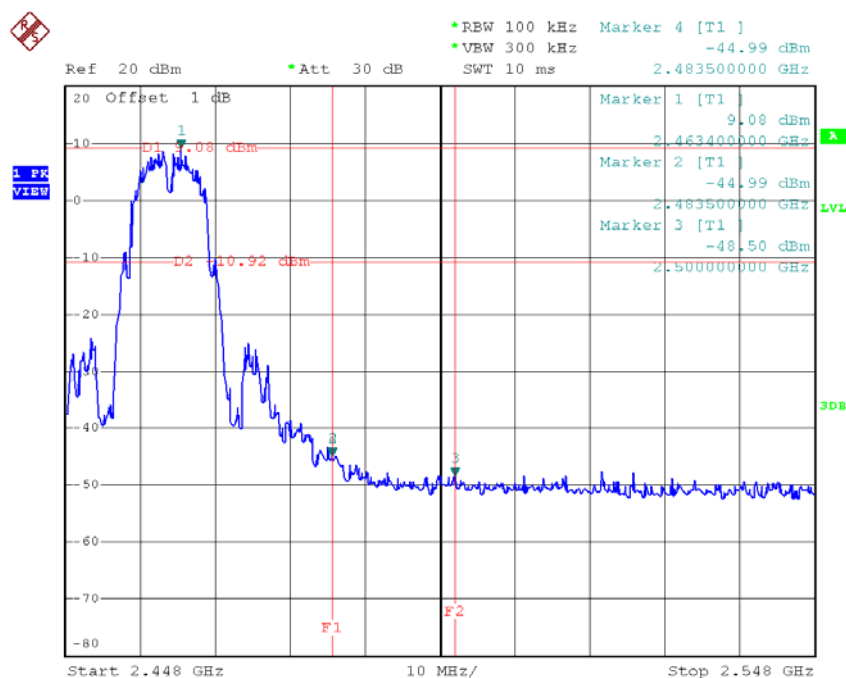
Test Mode : TX B Mode

### TX B mode CH01



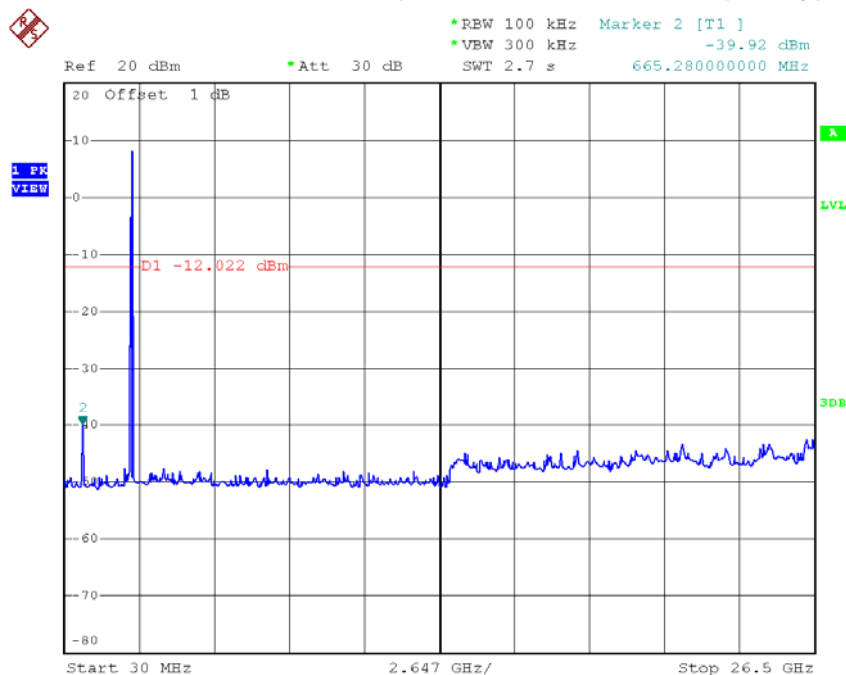
Date: 22.AUG.2015 14:35:20

### TX B mode CH11



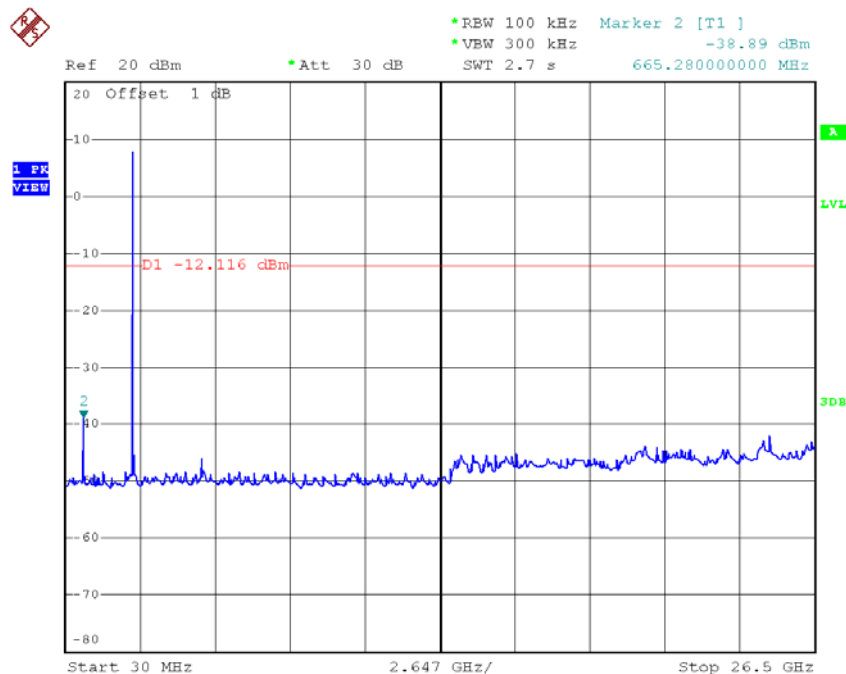
Date: 22.AUG.2015 14:40:01

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



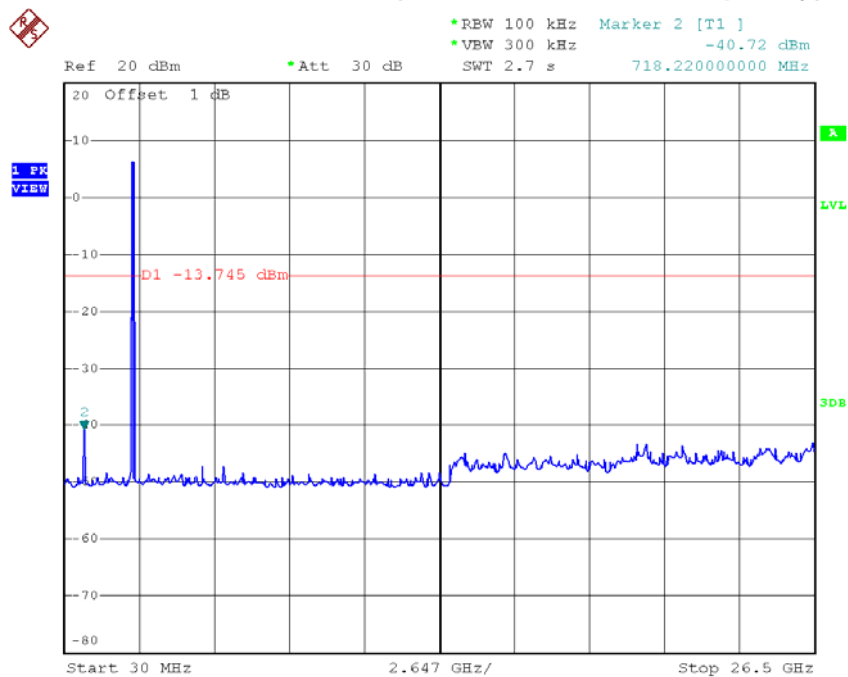
Date: 22.AUG.2015 14:35:12

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



Date: 22.AUG.2015 14:36:38

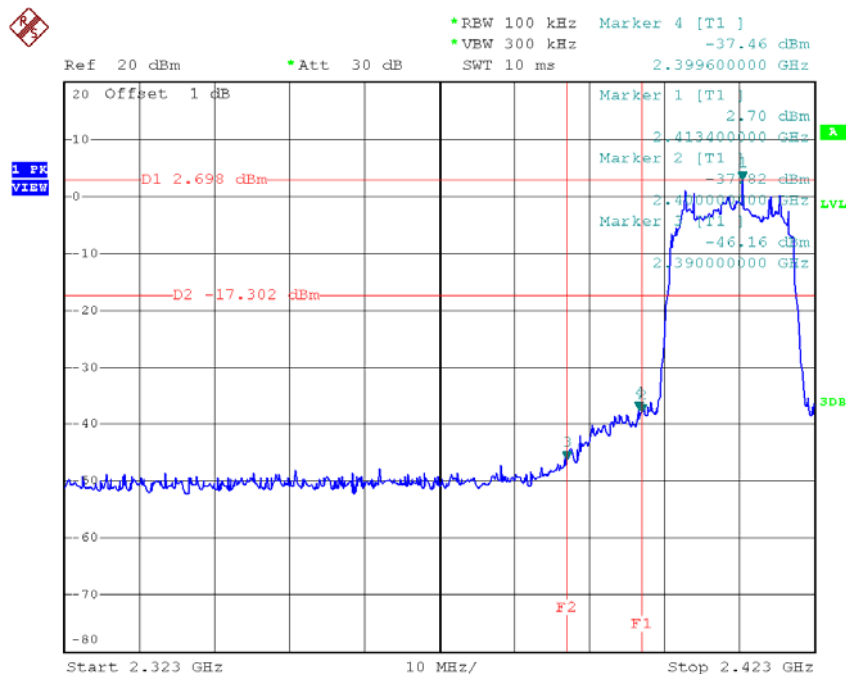
# TX B mode CH11 (10 Harmonic of the frequency)



Date: 22.AUG.2015 14:39:53

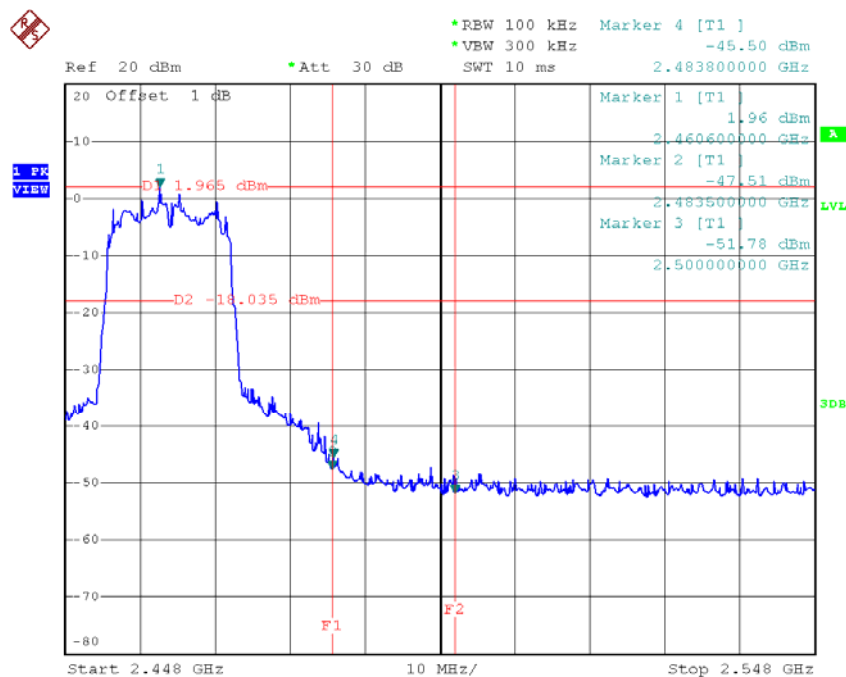
Test Mode : TX G Mode

### TX G mode CH01



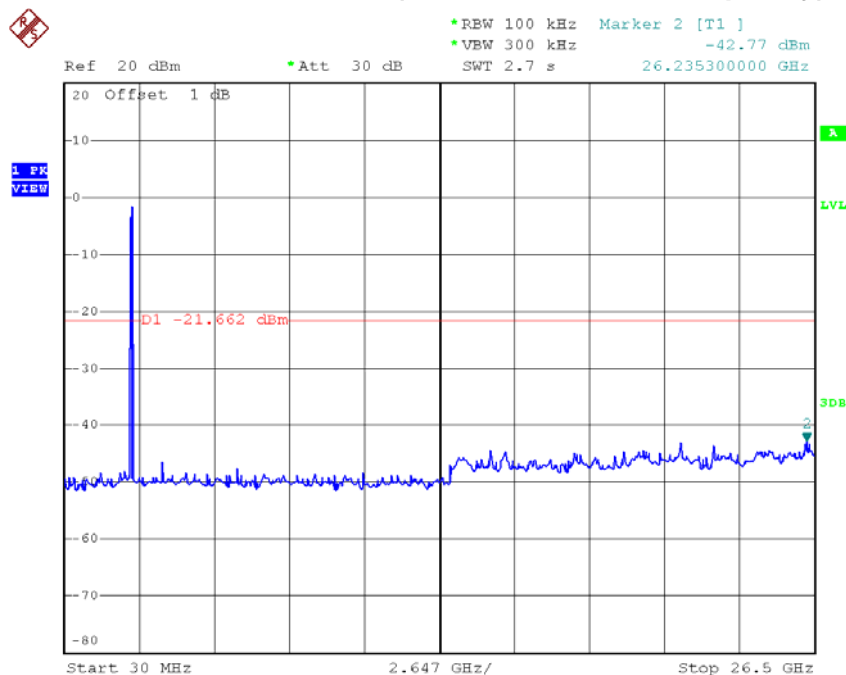
Date: 22.AUG.2015 14:41:45

### TX G mode CH11



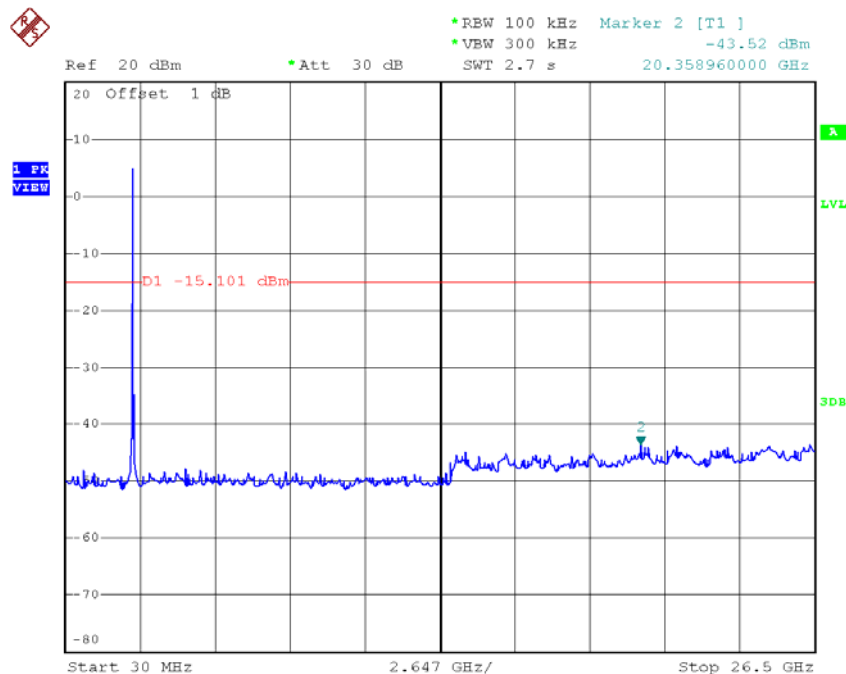
Date: 22.AUG.2015 14:44:17

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



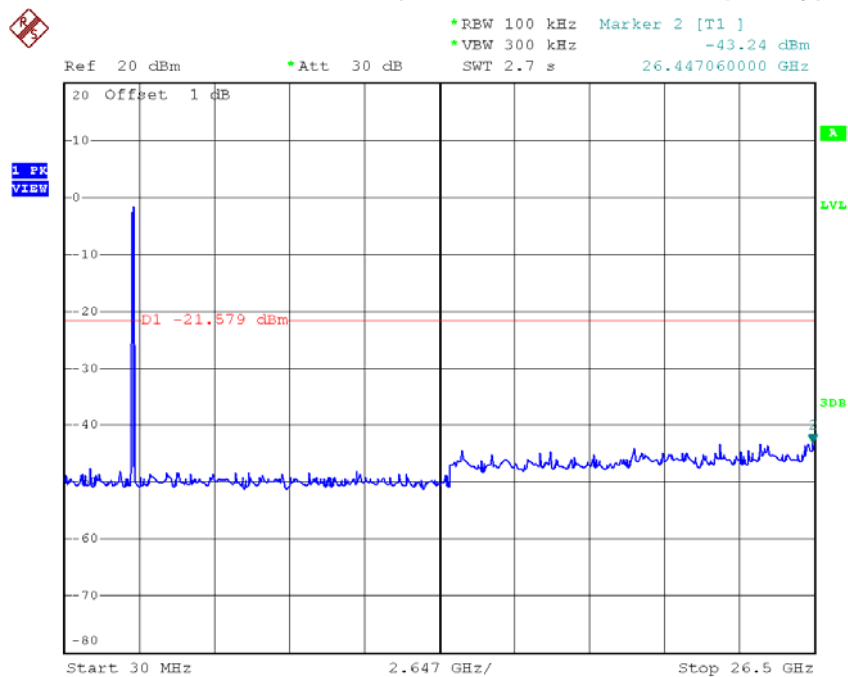
Date: 22.AUG.2015 14:41:37

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



Date: 22.AUG.2015 14:42:56

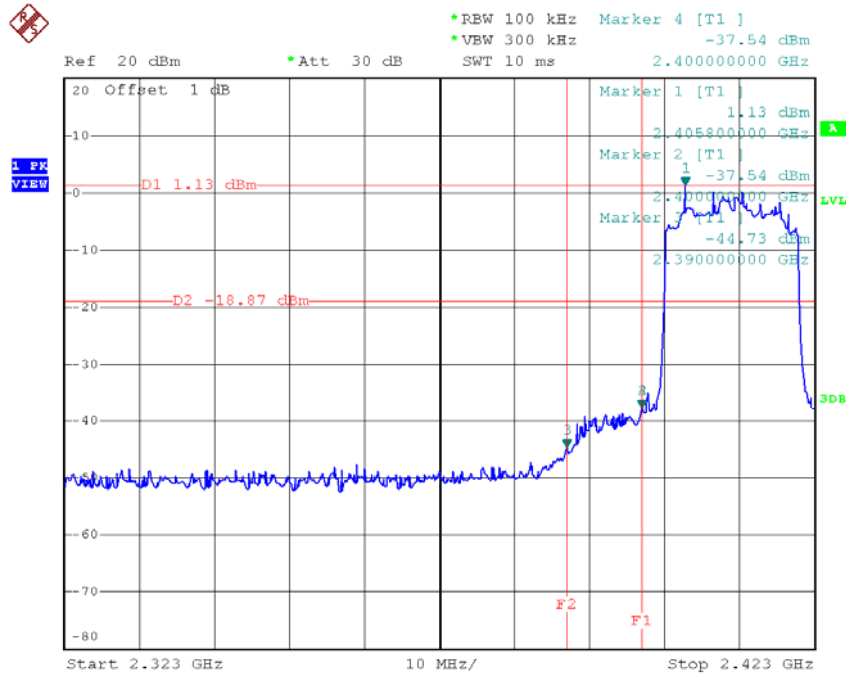
# TX G mode CH11 (10 Harmonic of the frequency)



Date: 22.AUG.2015 14:44:09

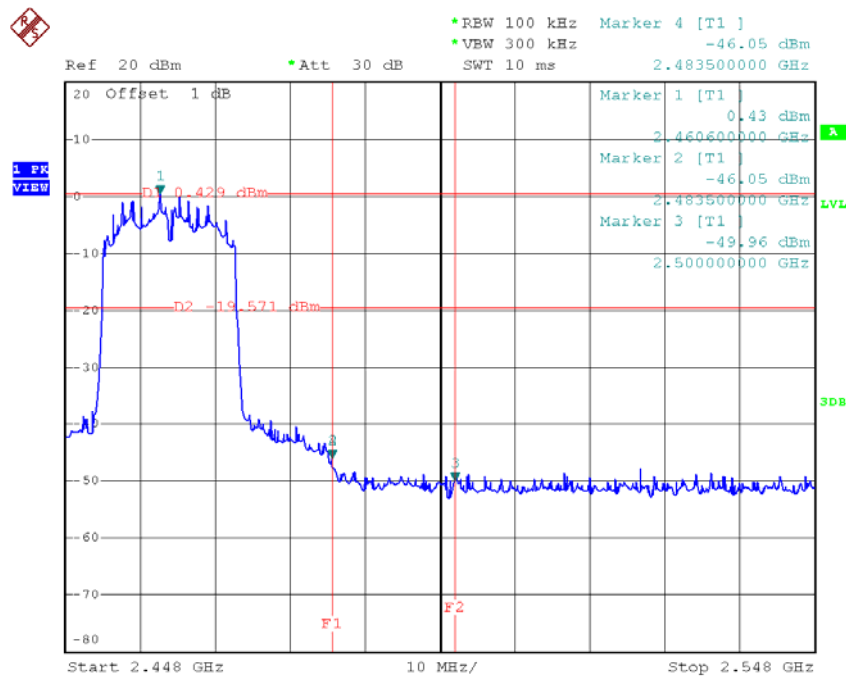
Test Mode : TX N-20M Mode\_ANT 1

### TX HT20 mode CH01



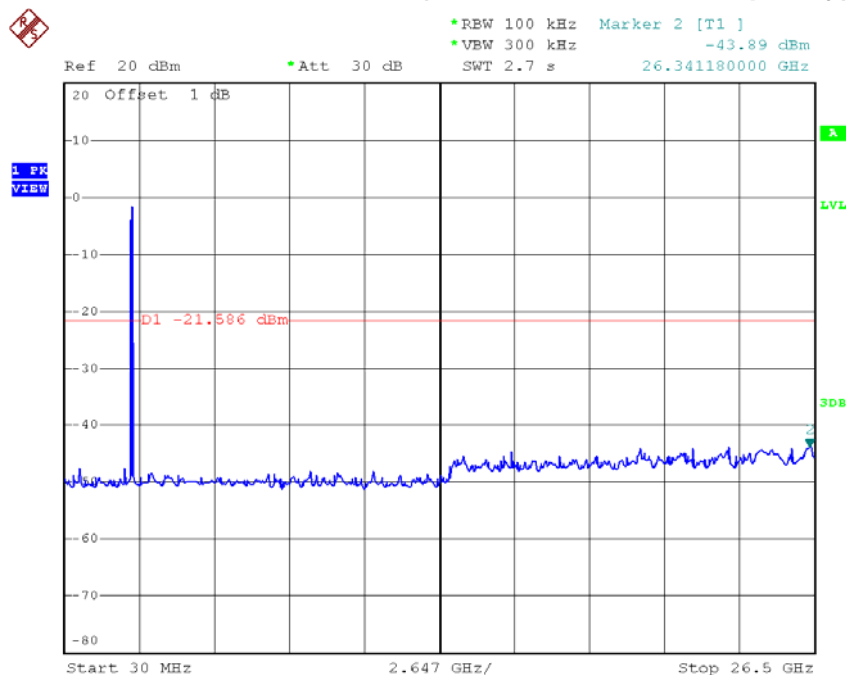
Date: 22.AUG.2015 14:46:27

### TX HT20 mode CH11



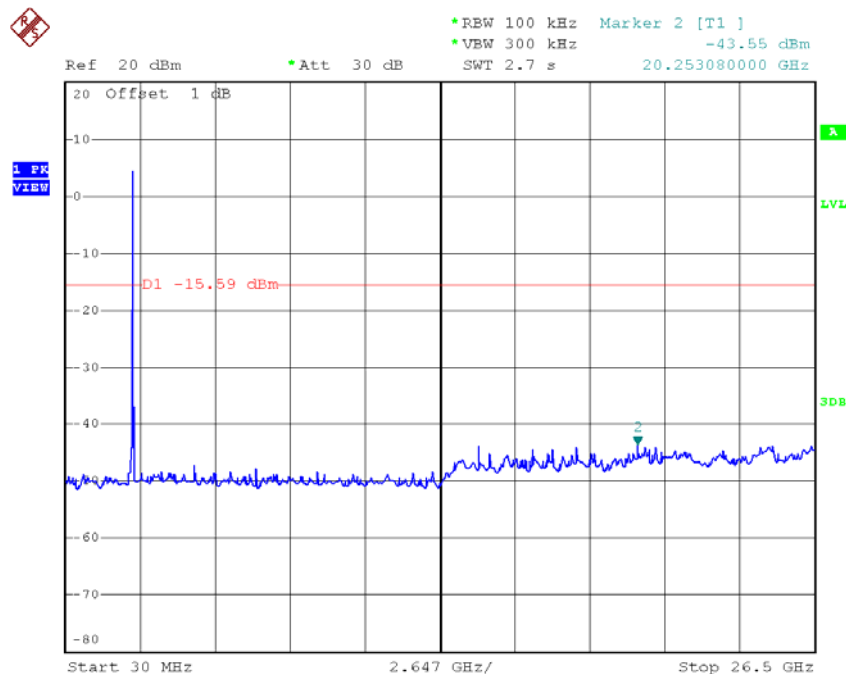
Date: 22.AUG.2015 14:49:44

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



Date: 22.AUG.2015 14:46:19

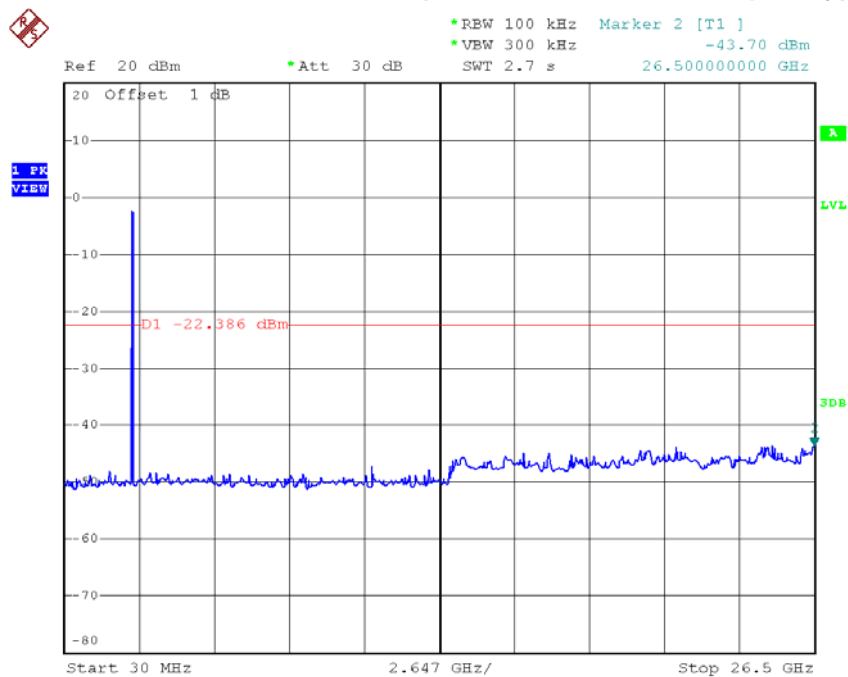
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 22.AUG.2015 14:47:59



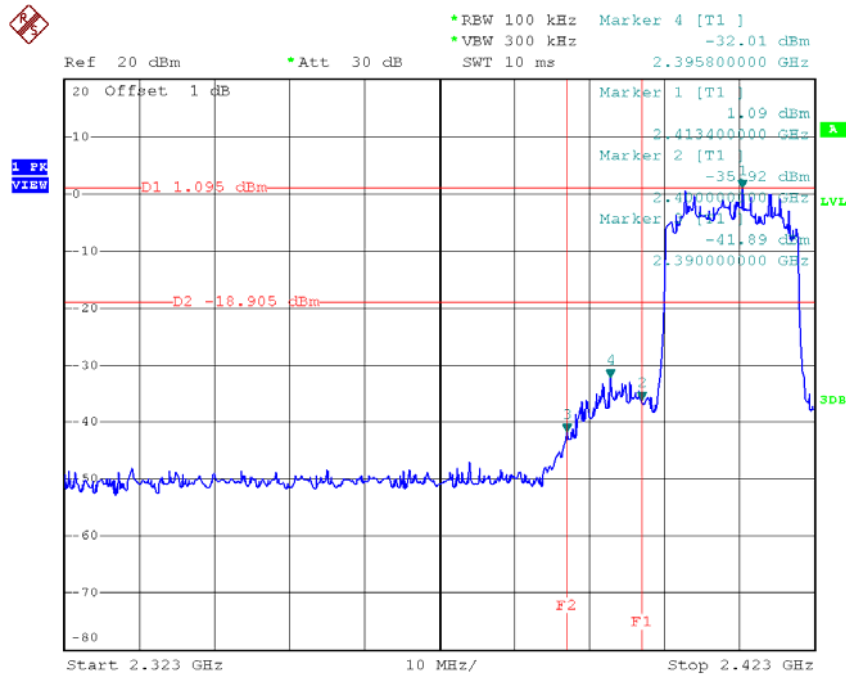
# TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 22.AUG.2015 14:49:36

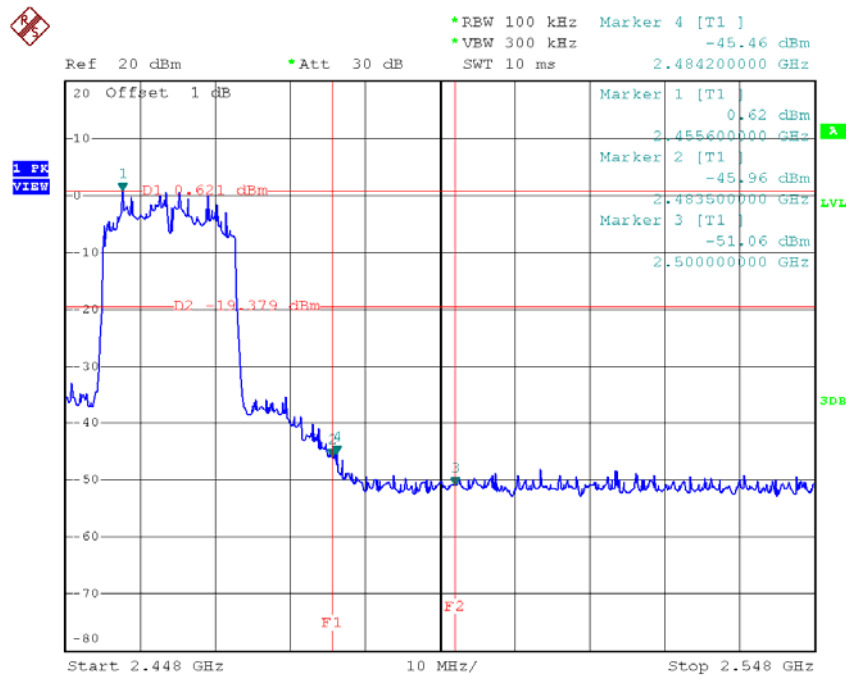
Test Mode : TX N-20M Mode\_ANT 2

### TX HT20 mode CH01



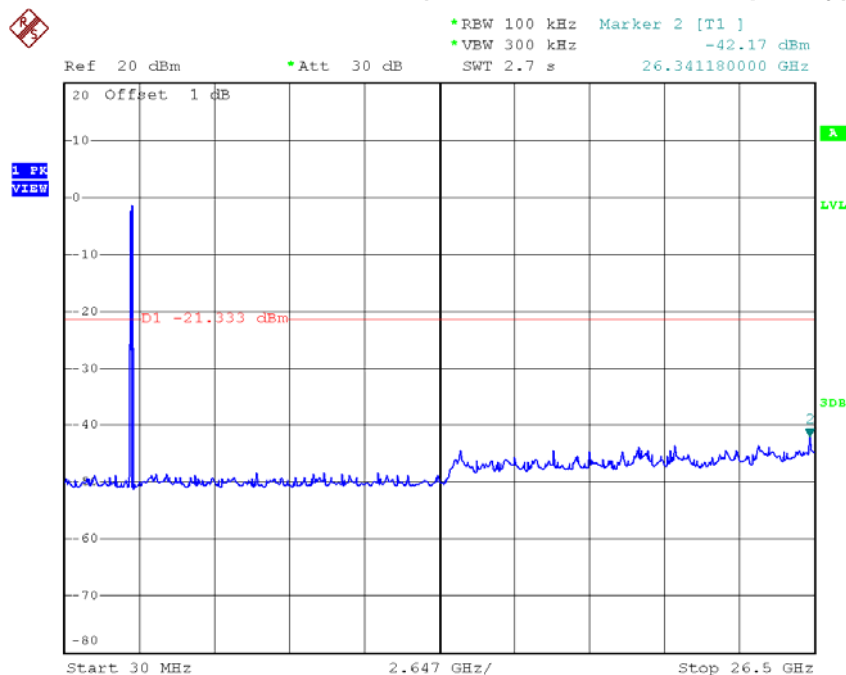
Date: 22.AUG.2015 14:52:09

### TX HT20 mode CH11



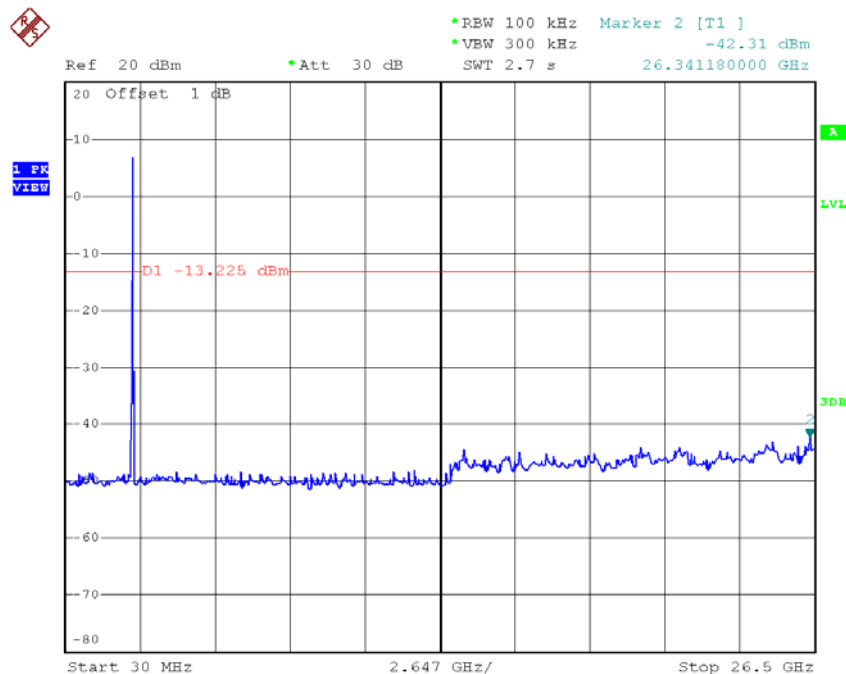
Date: 22.AUG.2015 14:54:53

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



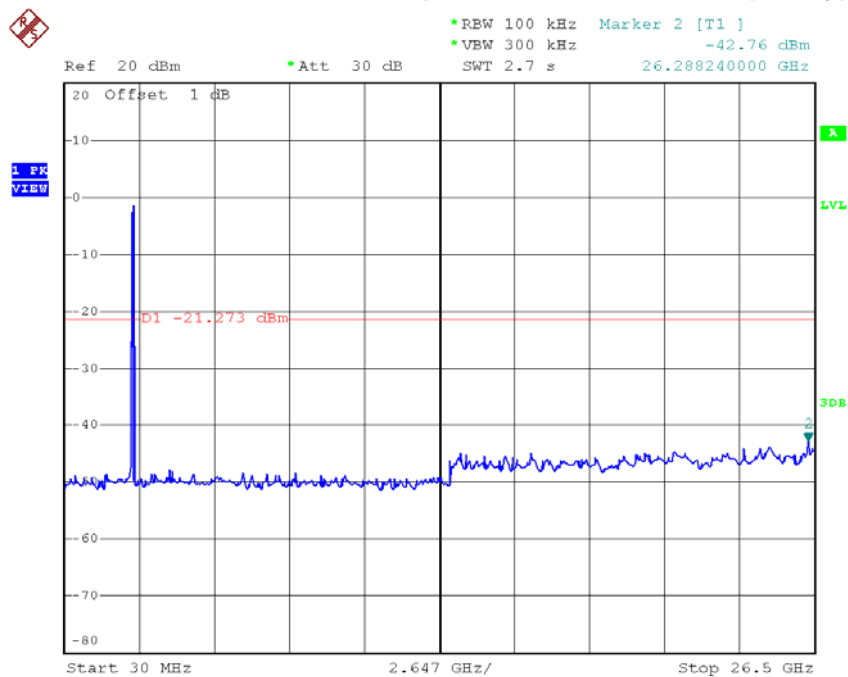
Date: 22.AUG.2015 14:52:01

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



Date: 22.AUG.2015 14:53:42

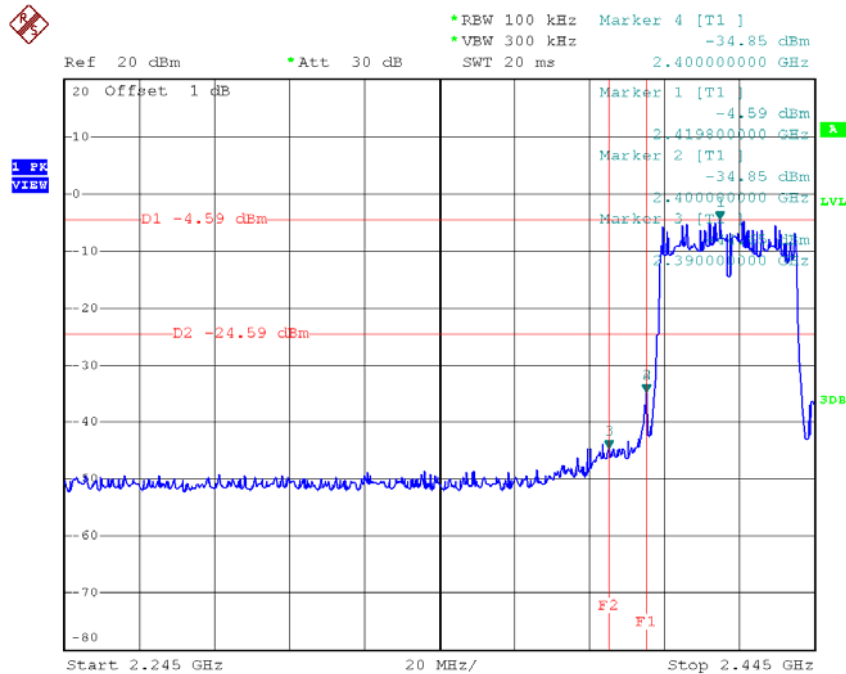
# TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 22.AUG.2015 14:54:46

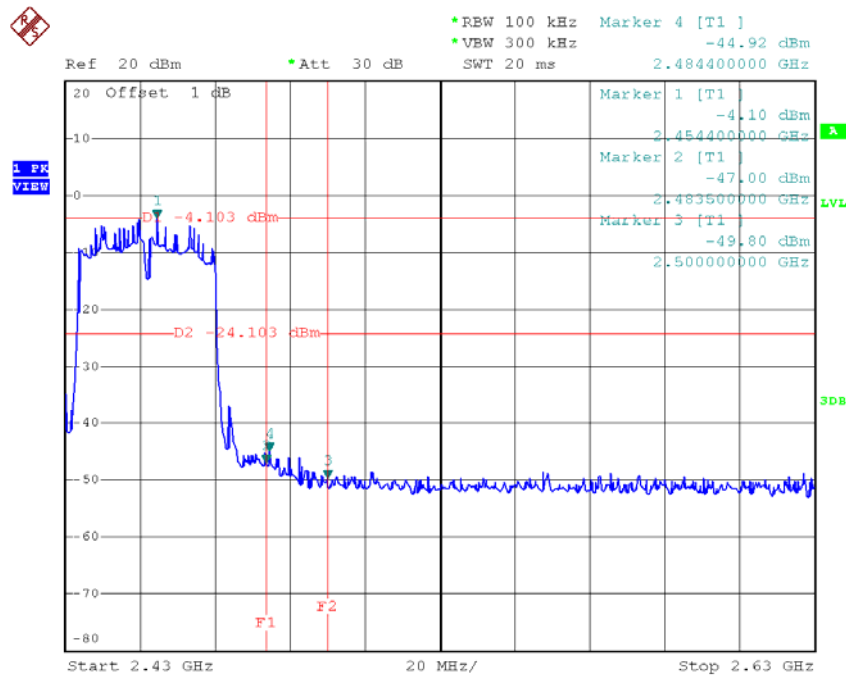
Test Mode : TX N-40M Mode\_ANT 1

### TX HT40 mode CH03



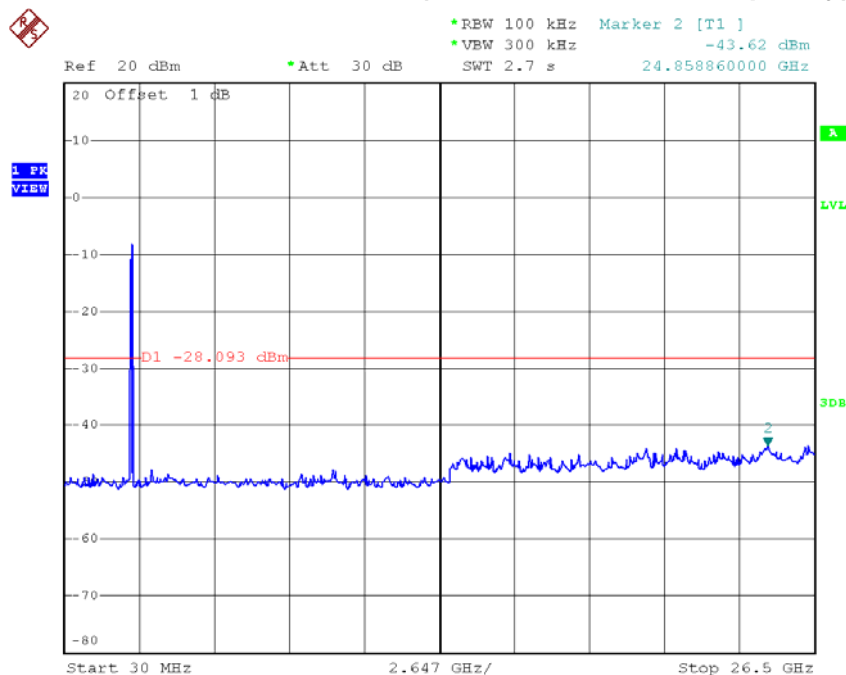
Date: 22.AUG.2015 15:02:04

### TX HT40 mode CH09



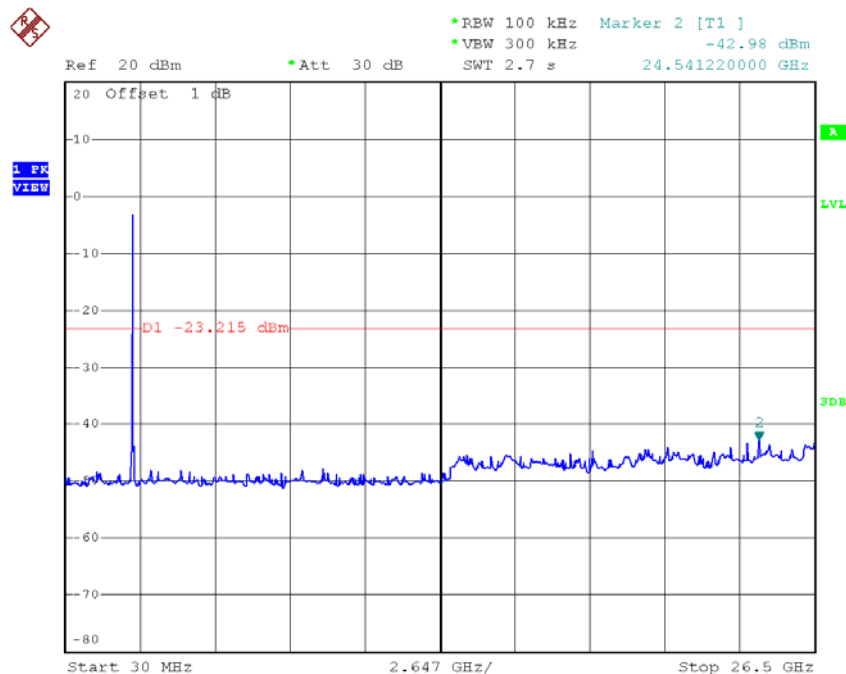
Date: 22.AUG.2015 15:04:19

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



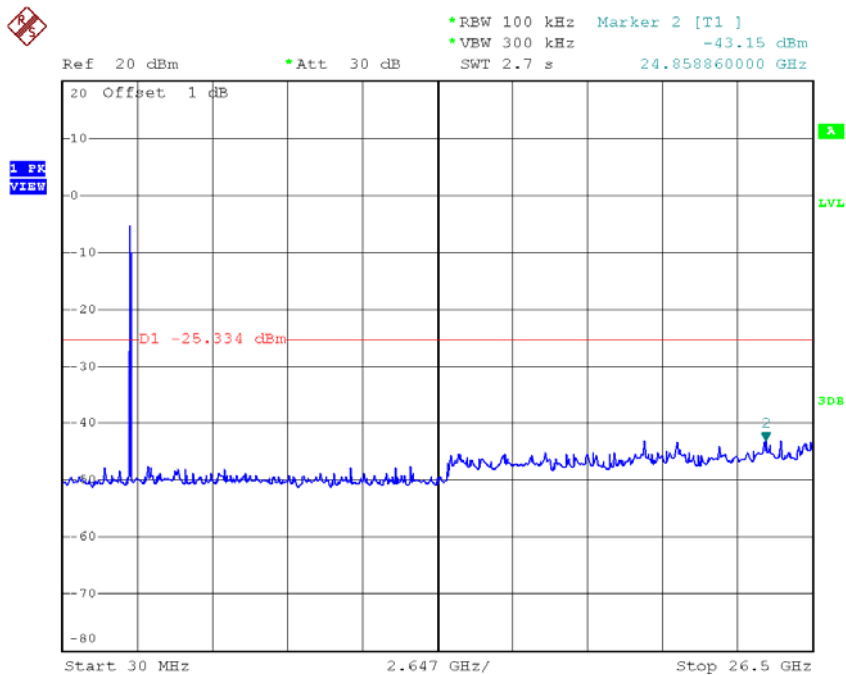
Date: 22.AUG.2015 15:01:56

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



Date: 22.AUG.2015 15:03:08

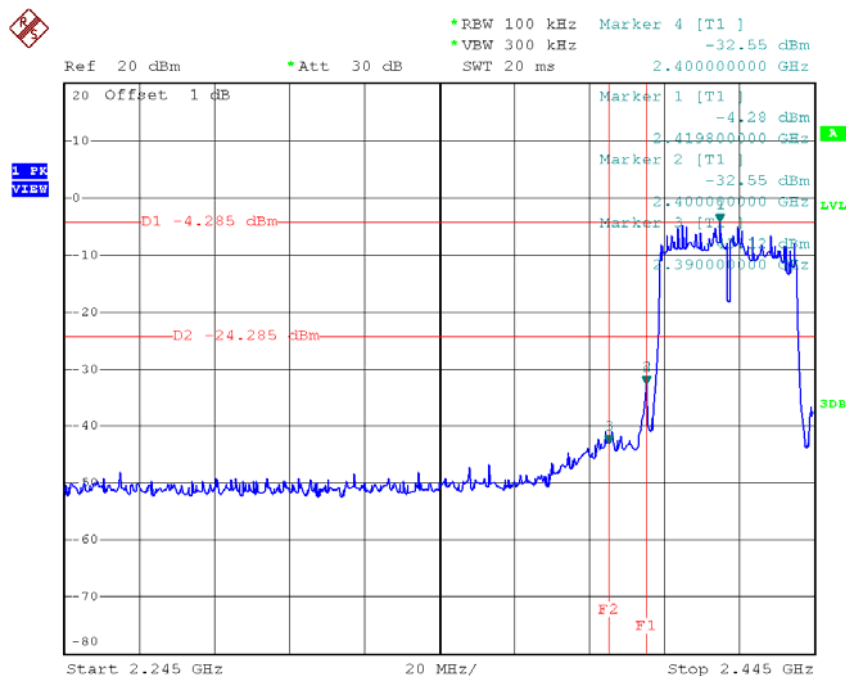
# TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 22.AUG.2015 15:04:11

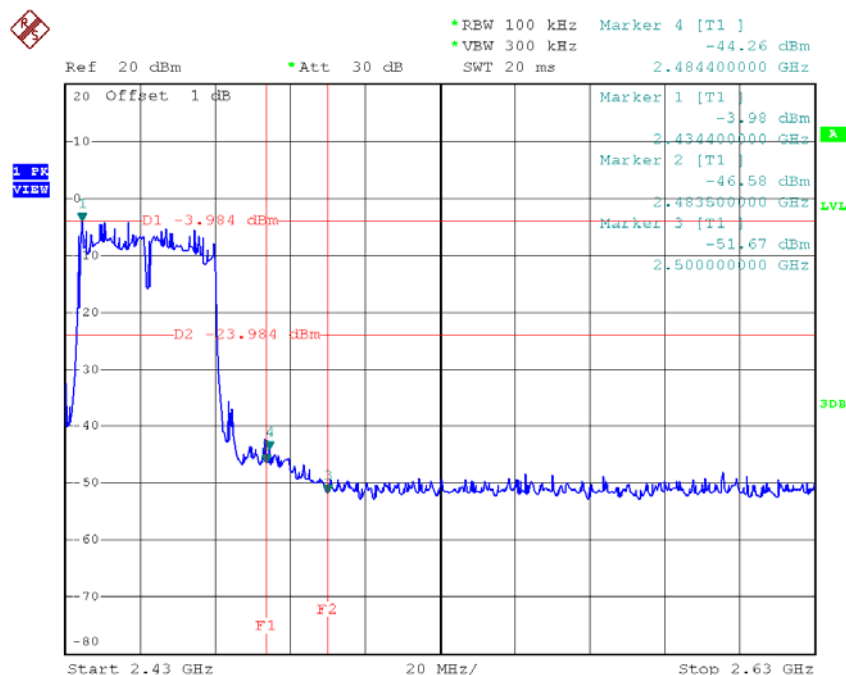
Test Mode : TX N-40M Mode\_ANT 2

### TX HT40 mode CH03



Date: 22.AUG.2015 14:57:44

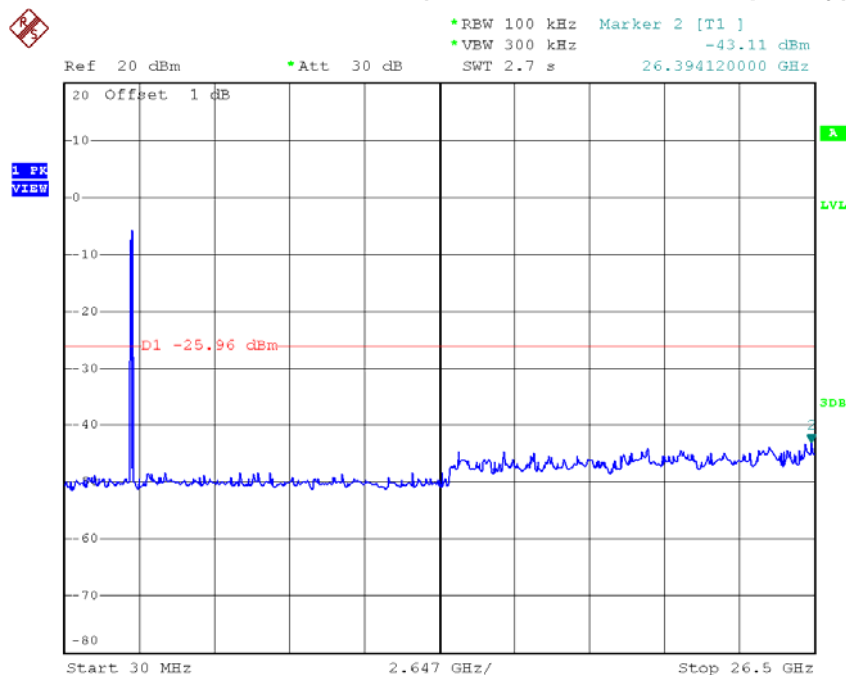
### TX HT40 mode CH09



Date: 22.AUG.2015 14:59:56

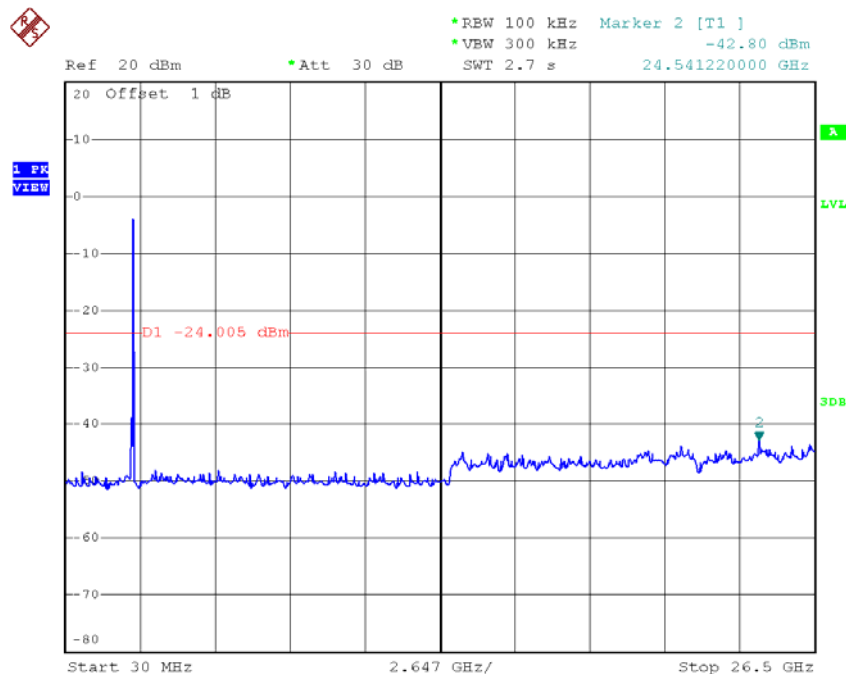


### TX HT40 mode CH03 (10 Harmonic of the frequency)



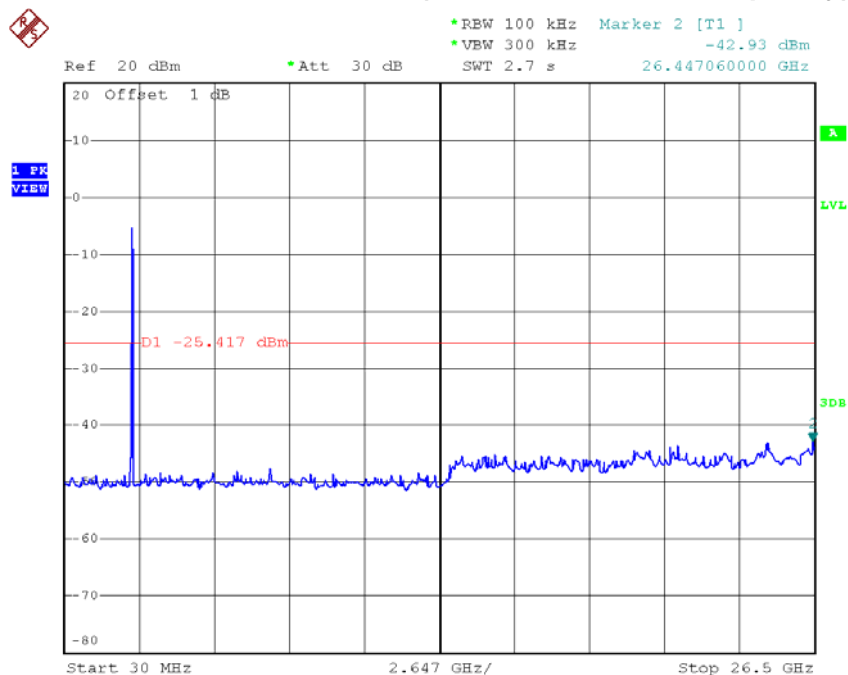
Date: 22.AUG.2015 14:57:36

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



Date: 22.AUG.2015 14:58:45

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



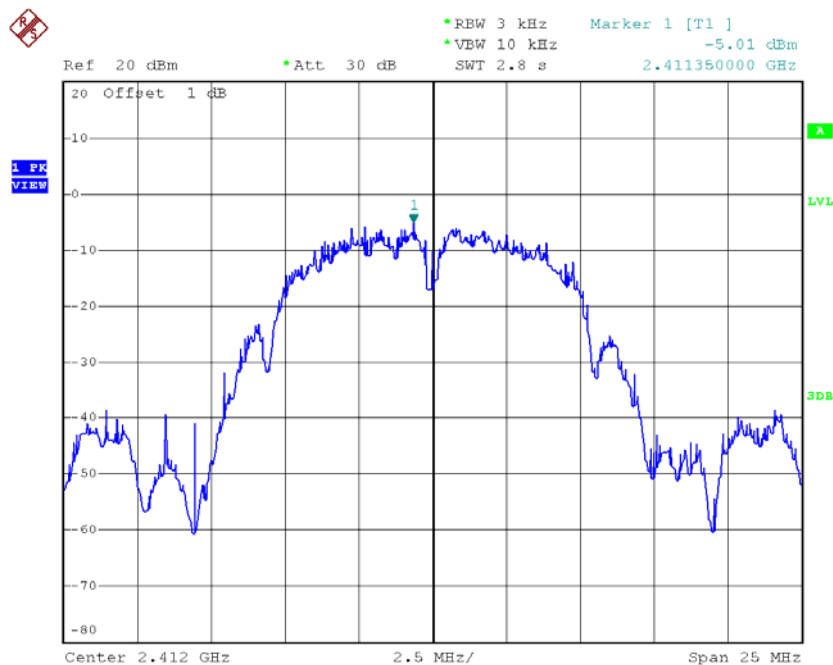
Date: 22.AUG.2015 14:59:48

## **ATTACHMENT H - POWER SPECTRAL DENSITY**

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

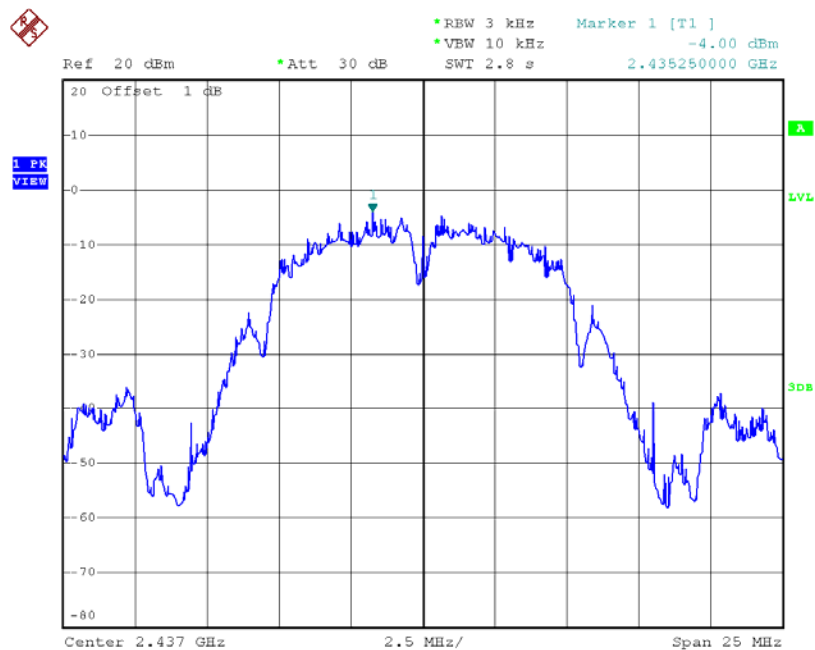
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.01	0.32	8.00	Complies
2437	-4.00	0.40	8.00	Complies
2462	-5.13	0.31	8.00	Complies

TX CH01



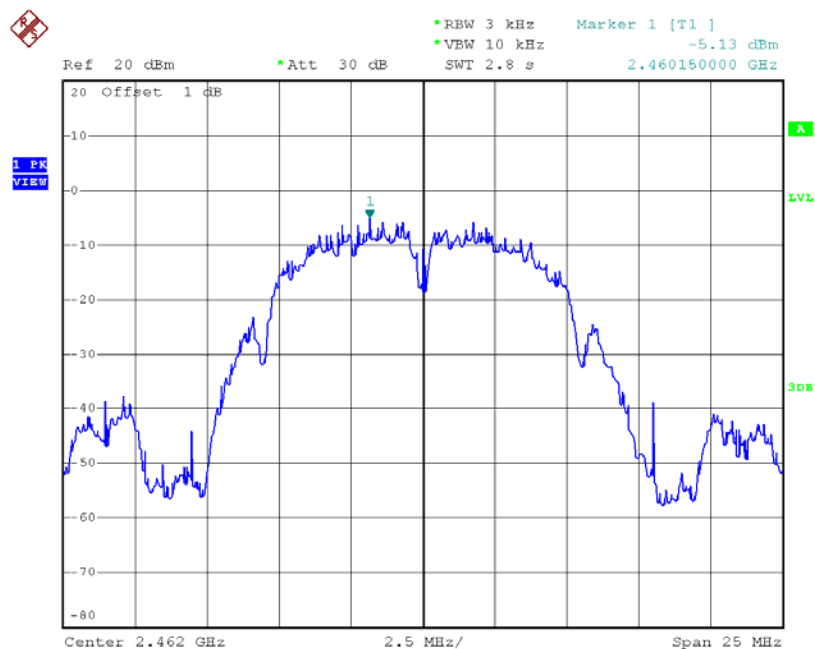
Date: 22.AUG.2015 14:35:29

# TX CH06



Date: 22.AUG.2015 14:36:47

# TX CH11

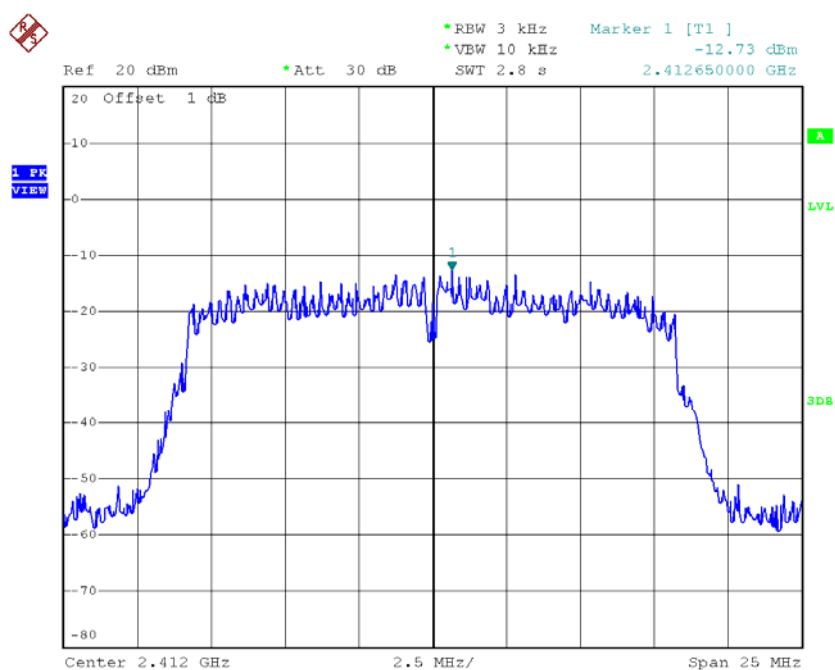


Date: 22.AUG.2015 14:40:10

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

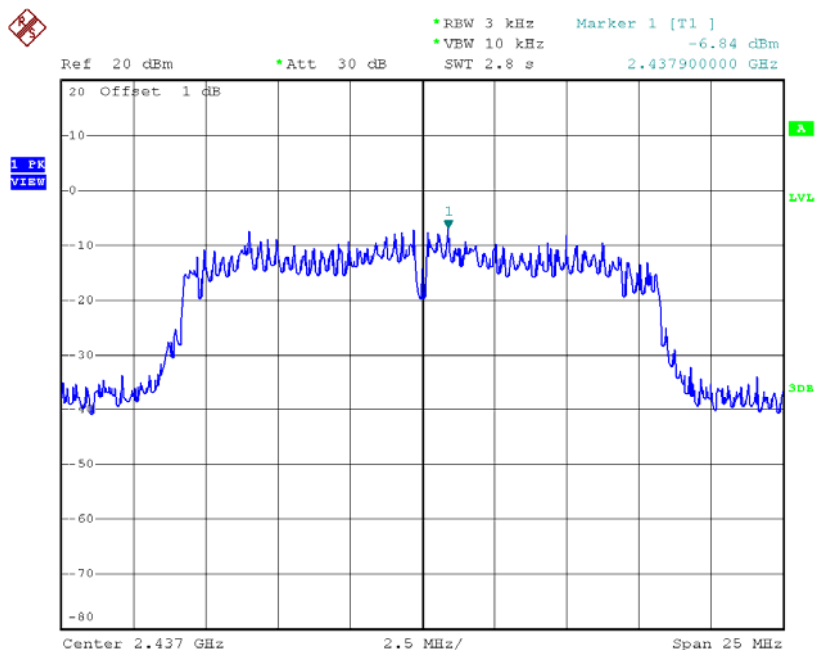
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.73	0.05	8.00	Complies
2437	-6.84	0.21	8.00	Complies
2462	-13.10	0.05	8.00	Complies

TX CH01



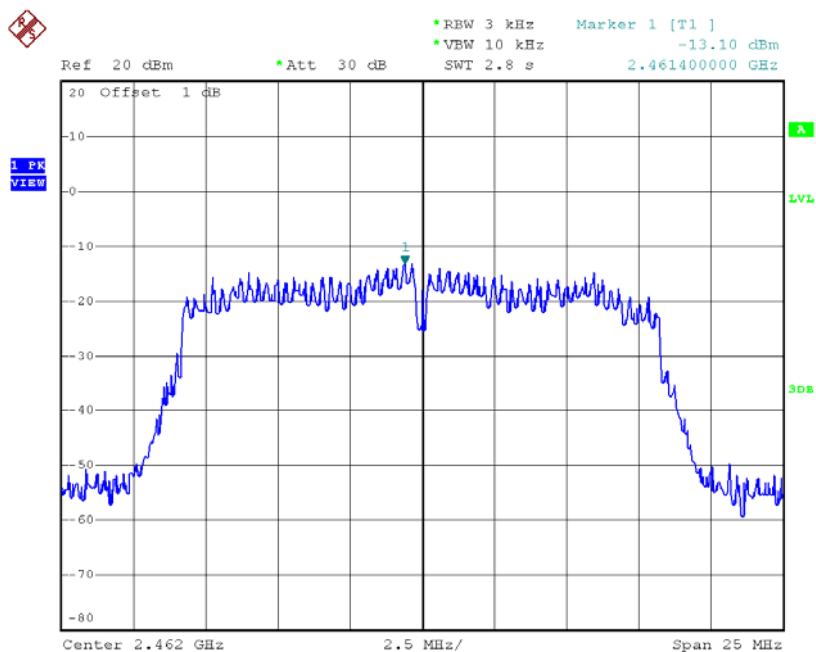
Date: 22.AUG.2015 14:41:54

# TX CH06



Date: 22.AUG.2015 14:43:05

# TX CH11

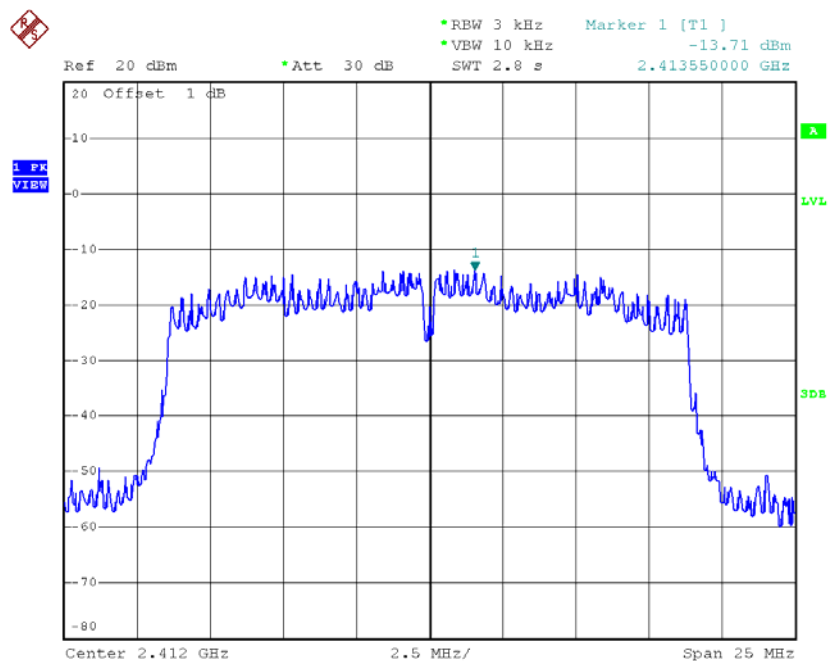


Date: 22.AUG.2015 14:44:26

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.71	0.04	8.00	Complies
2437	-7.49	0.18	8.00	Complies
2462	-14.12	0.04	8.00	Complies

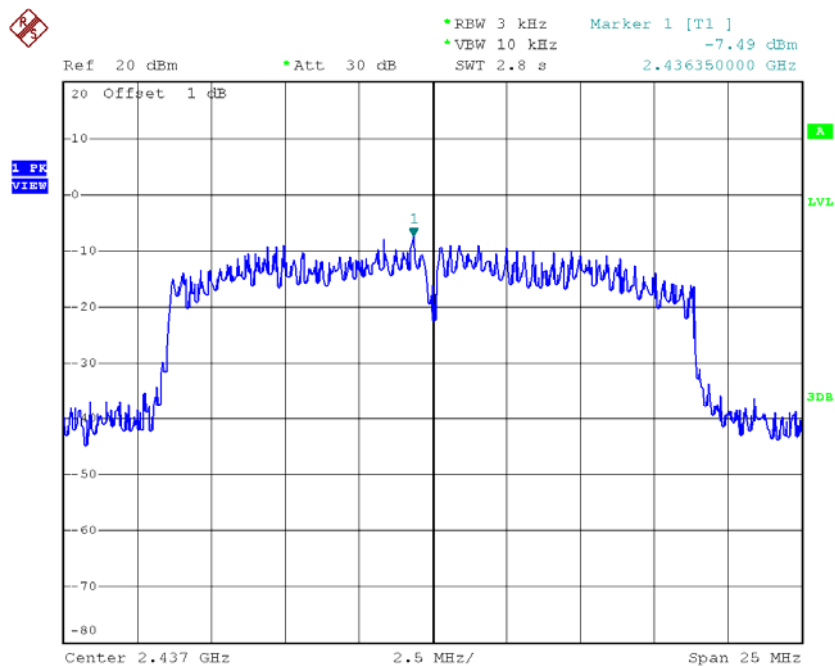
**TX CH01**



Date: 22.AUG.2015 14:46:36

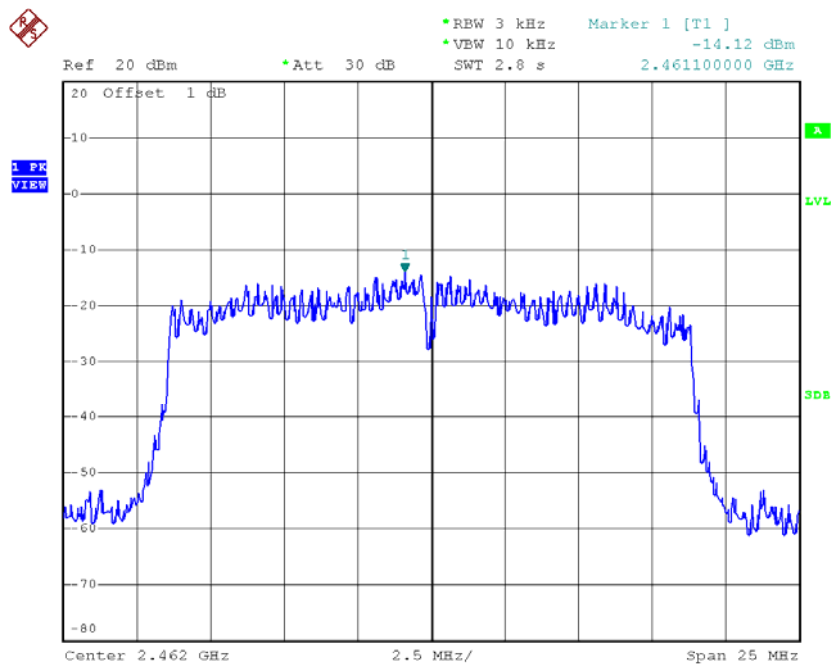


# TX CH06



Date: 22.AUG.2015 14:48:08

# TX CH11

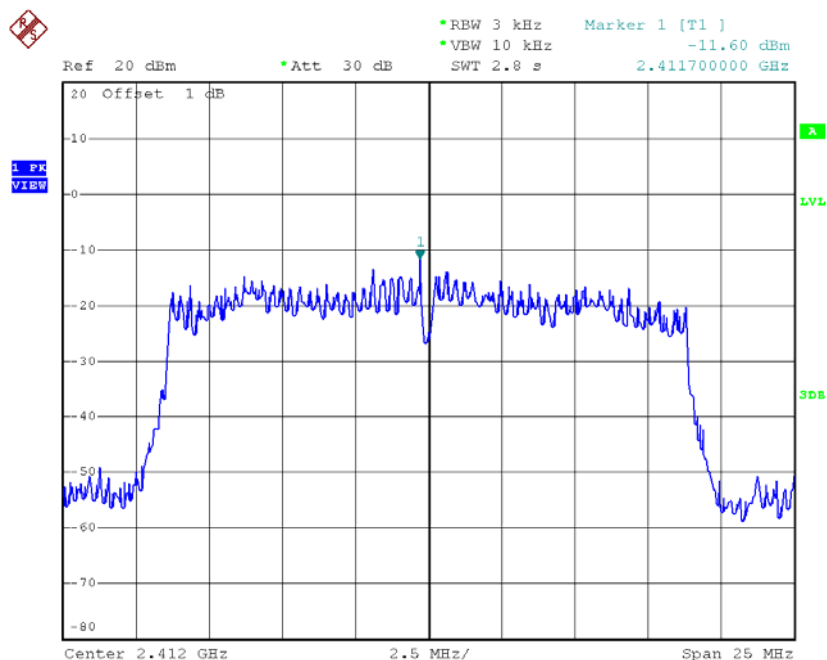


Date: 22.AUG.2015 14:49:53

**Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 2**

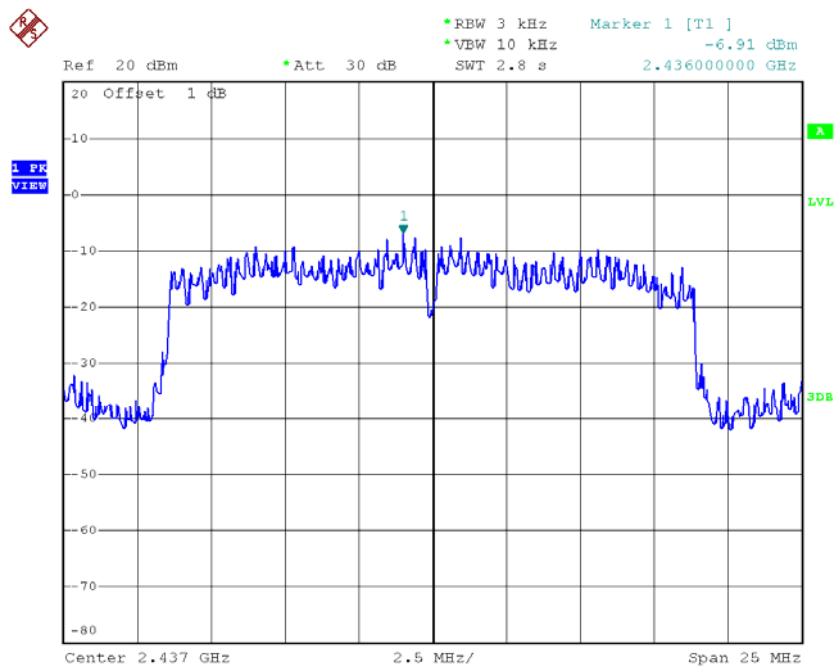
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.60	0.07	8.00	Complies
2437	-6.91	0.20	8.00	Complies
2462	-13.22	0.05	8.00	Complies

**TX CH01**



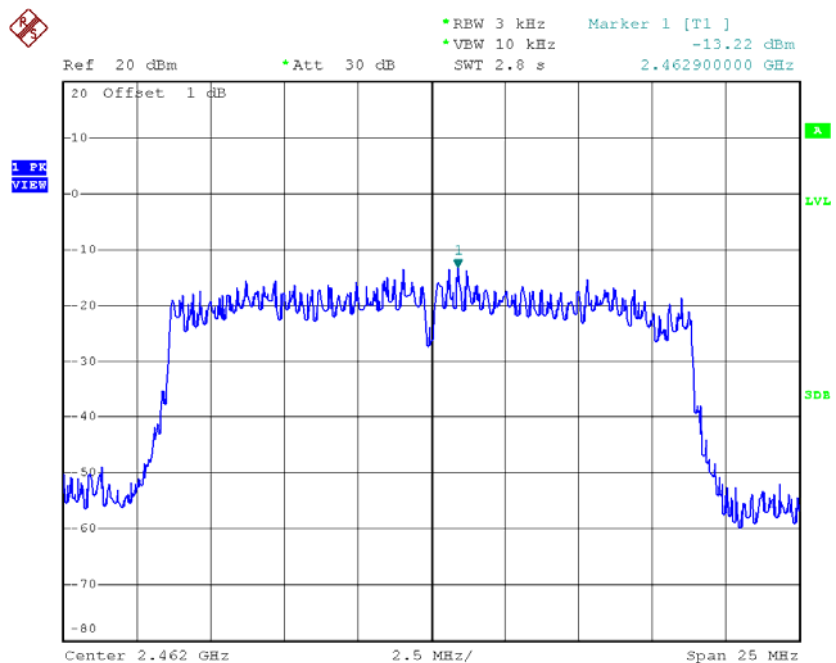
Date: 22.AUG.2015 14:52:18

# TX CH06



Date: 22.AUG.2015 14:53:51

# TX CH11



Date: 22.AUG.2015 14:55:03

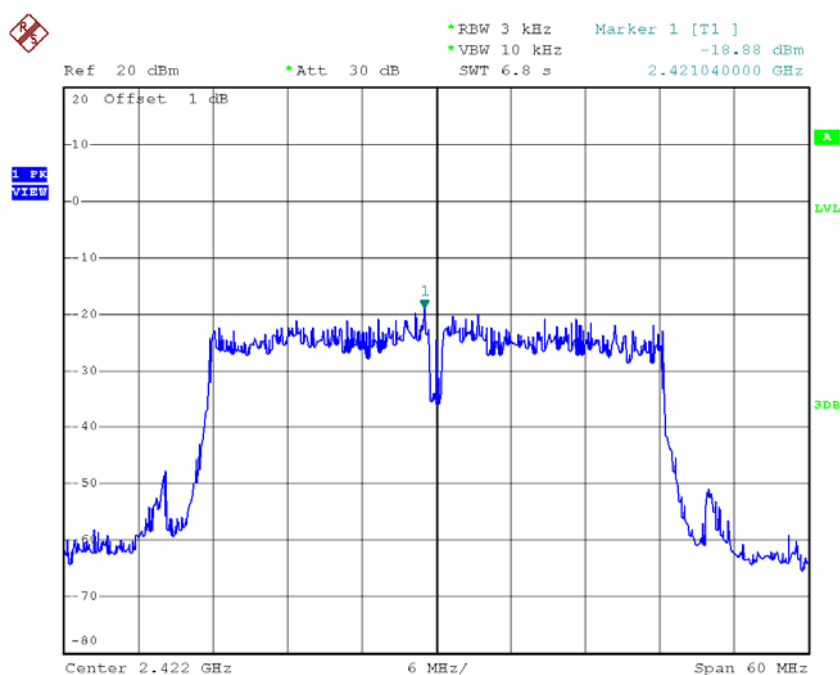
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.59	0.11	8.00	Complies
2437	-4.20	0.38	8.00	Complies
2462	-10.46	0.09	8.00	Complies

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

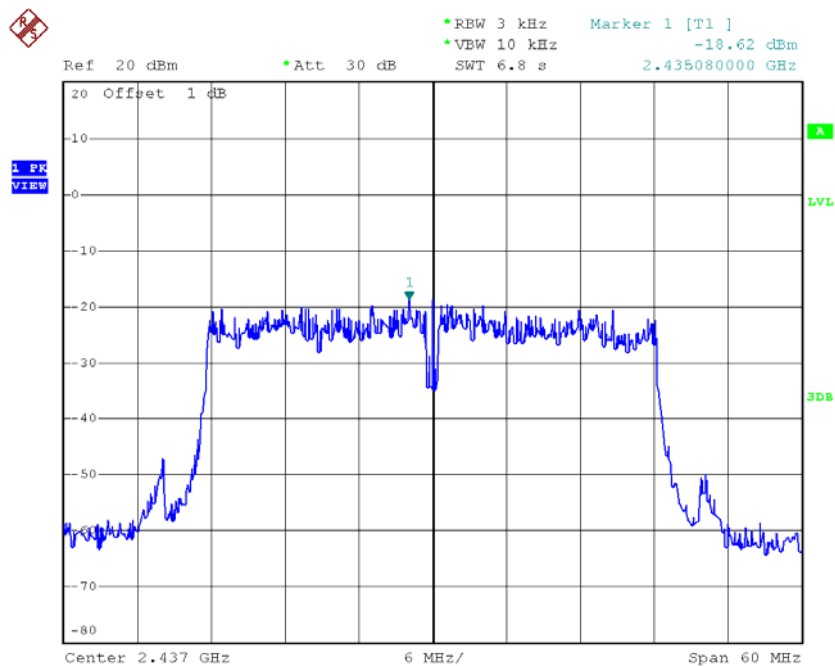
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.88	0.01	8.00	Complies
2437	-18.62	0.01	8.00	Complies
2452	-18.76	0.01	8.00	Complies

**TX CH03**



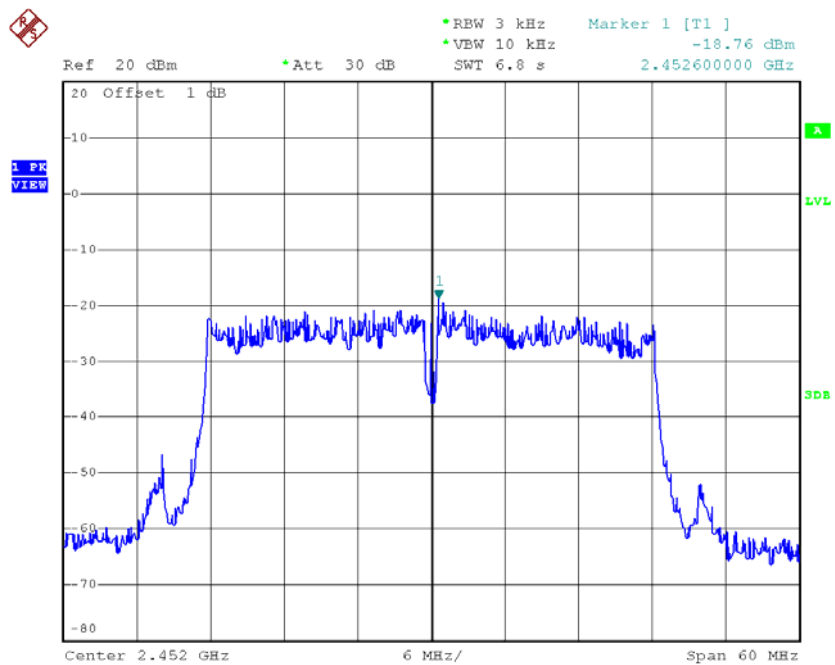
Date: 22.AUG.2015 15:02:16

### TX CH06



Date: 22.AUG.2015 15:03:20

### TX CH09

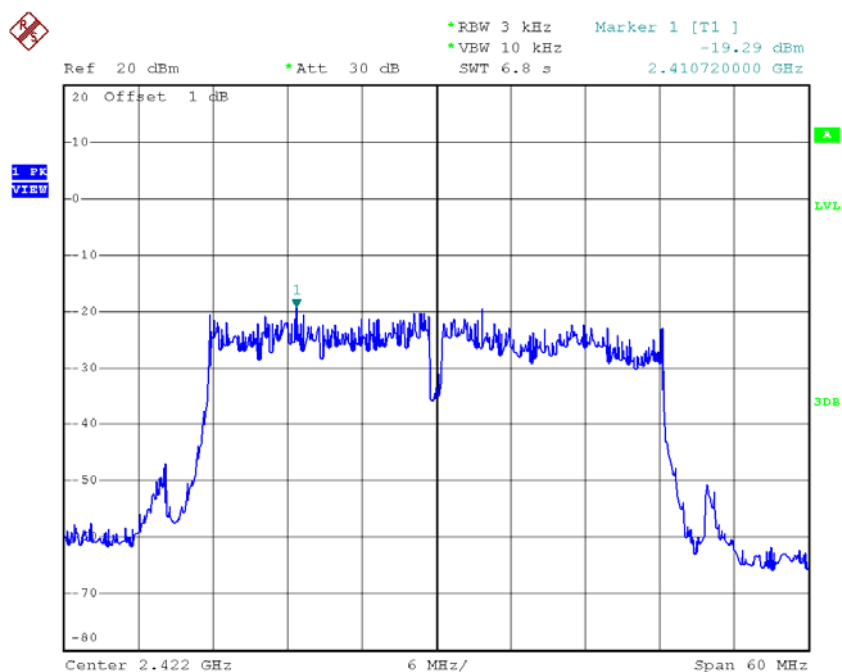


Date: 22.AUG.2015 15:04:31

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

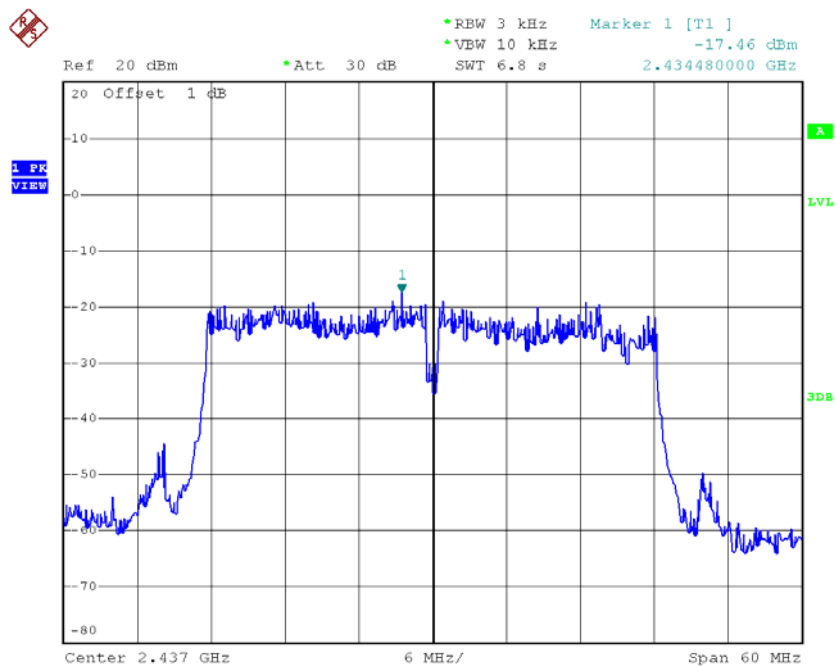
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-19.29	0.01	8.00	Complies
2437	-17.46	0.02	8.00	Complies
2452	-19.57	0.01	8.00	Complies

**TX CH03**



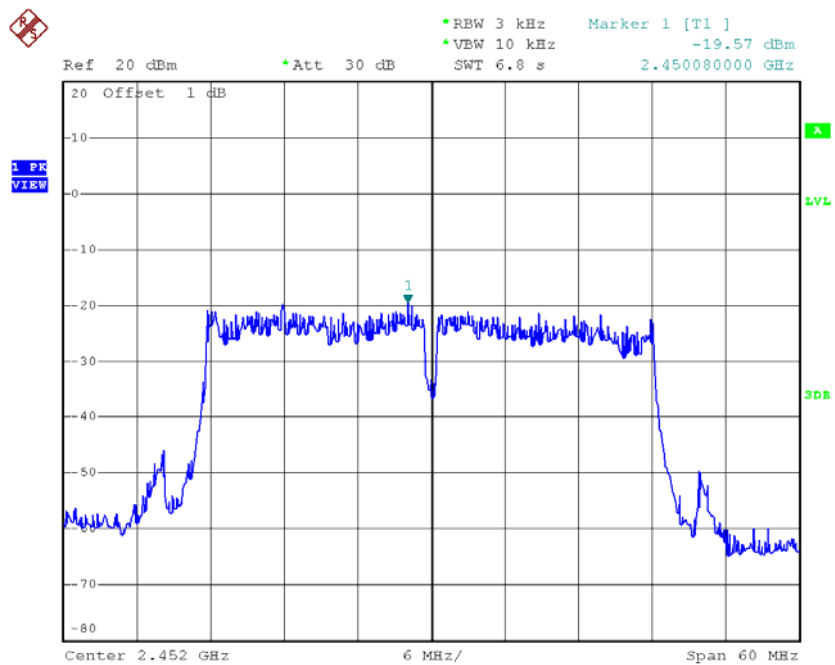
Date: 22.AUG.2015 14:57:56

# TX CH06



Date: 22.AUG.2015 14:58:57

# TX CH09



Date: 22.AUG.2015 15:00:08



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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.99	0.02	8.00	Complies
2437	-15.23	0.03	8.00	Complies
2452	-16.99	0.02	8.00	Complies