

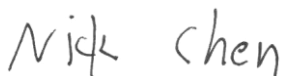
# FCC Radio Test Report

## FCC ID: V7TAC5V3

**This report concerns: Original Grant**

**Project No.** : 1912C183  
**Equipment** : AC1200 Smart Dual-band WiFi Router  
**Brand Name** : Tenda  
**Test Model** : AC5  
**Series Model** : N/A  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Manufacturer** : SHENZHEN TENDA TECHNOLOGY CO.,LTD  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Date of Receipt** : Feb. 26, 2020  
**Date of Test** : Feb. 27, 2020 ~ Feb. 28, 2020  
**Issued Date** : Mar. 02, 2020  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2019122778 for conducted, DG2019122777 for radiated.  
**Standard(s)** : FCC Part15, Subpart C (15.247)  
ANSI C63.10-2013  
KDB 558074 D01 15.247 Meas Guidance v05r02

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



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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.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Feb. 11, 2020
R01	Modified the comments of TCB.	Mar. 02, 2020

### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

### 1.1 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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

### 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

#### A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

#### B. Radiated emissions test:

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	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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



**1.3 TEST ENVIRONMENT CONDITIONS**

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz AC 240V/50Hz	Grani Zhou
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Laughing Zhang
Bandwidth	25°C	60%	DC 9V	Grani Zhou
Maximum output power	25°C	60%	DC 9V	Damon Deng
Conducted Spurious Emissions	25°C	60%	DC 9V	Grani Zhou
Power Spectral Density	25°C	60%	DC 9V	Grani Zhou

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Smart Dual-band WiFi Router
Brand Name	Tenda
Test Model	AC5
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC/DC adapter. Model: BN052-A09009E
Power Rating	I/P: 100-240V~50/60Hz 0.3A O/P: 9V $\equiv$ 1.0A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum Output Power Non-Beamforming	IEEE 802.11b: 20.91 dBm (0.1233 W) IEEE 802.11g: 29.34 dBm (0.8590 W) IEEE 802.11n (HT20): 27.90 dBm (0.6166 W) IEEE 802.11n (HT40): 27.94 dBm (0.622.3 W)
Maximum Output Power Beamforming	IEEE 802.11n (HT20): 27.85 dBm (0.6094 W) IEEE 802.11n (HT40): 27.75 dBm (0.5962 W)

Note:

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

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)							
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. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5
2	N/A	N/A	Dipole	N/A	5

Note:

(1) For Non-Beamforming Function:

Antenna Gain=5 dBi. This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain =  $G_{ANT}+10\log(N)$ dBi, that is Directional gain =  $5+10\log(2)$ dBi=8.01. So, the output power limit is  $30-(8.01-6)=27.99$ , the power spectral density limit is  $8-(8.01-6)=5.99$ .

(2) For Beamforming Function:

Beamforming Gain=3 dBi, Directional gain=3+5=8 dBi. So, the output power limit is  $30-(8-6)=28$ , the power spectral density limit is  $8-(8-6)=6$ .

## 4. Table for Antenna Configuration:

For Non Beamforming:

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

For Beamforming:

Operating Mode TX Mode	2TX
	802.11n(20 MHz)
802.11n(40 MHz)	V (Ant. 1 + Ant. 2)

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09
Mode 5	TX N20 Mode Channel 06

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

<b>AC power line conducted emissions test</b>	
Final Test Mode:	Description
Mode 5	TX N20 Mode Channel 06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode:	Description
Mode 5	TX N20 Mode Channel 06

<b>Radiated emissions test- Above 1GHz</b>	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

<b>Conducted test</b>	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

**NOTE:**

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: CCK (1 Mbps)  
802.11g mode: OFDM (6 Mbps)  
802.11n HT20 mode : BPSK (13 Mbps)  
802.11n HT40 mode : BPSK (27 Mbps)  
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n20 Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (5) For radiated emissions, the WLAN 2.4G G Mode 2412MHz+RLAN 5G AC 40 Mode 5190MHz was found the worst case of simultaneous transmission and recorded.

### 2.3 PARAMETERS OF TEST SOFTWARE

#### Non-Beamforming

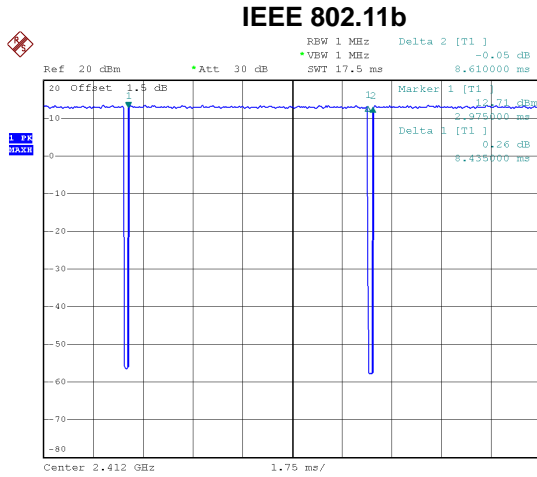
Test Software	MP_TEST		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	68	67	73
IEEE 802.11g	101	96	96
IEEE 802.11n (HT20)	81/81	81/81	81/81
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	80/80	80/80	80/80

#### Beamforming

Test Software	MP_TEST		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n (HT20)	77/77	77/77	77/77
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	80/80	79/79	79/79

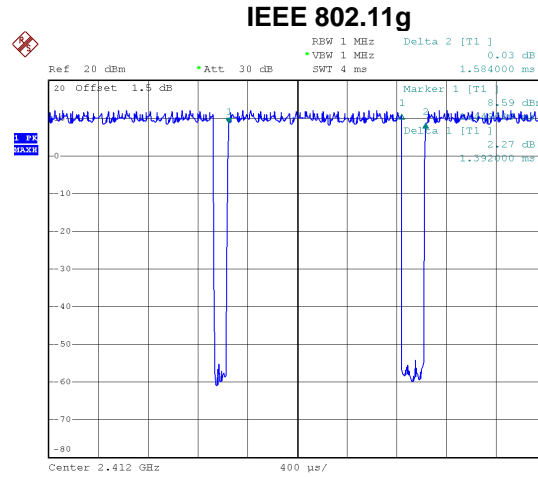
## 2.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
 If duty cycle is  $< 98\%$ , duty factor shall be considered.  
 The output power = measured power + duty factor.



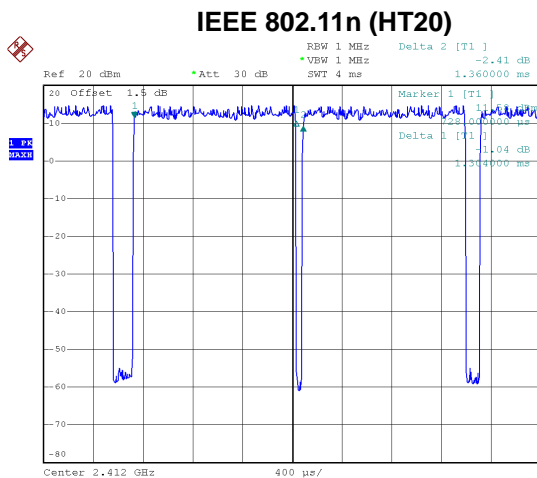
Date: 3.JAN.2020 15:21:45

Duty cycle = 8.435 ms / 8.610 ms = 97.97%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.09$



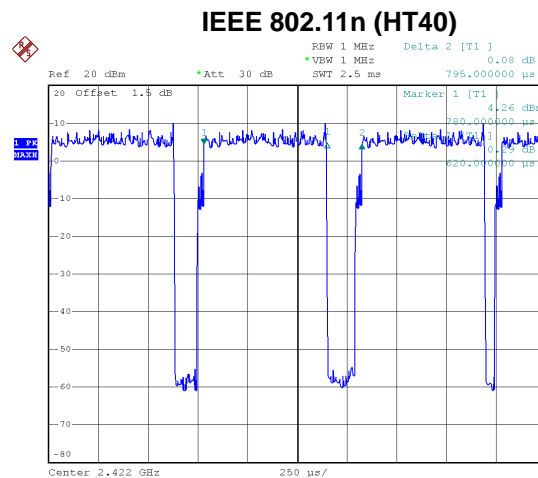
Date: 3.JAN.2020 15:22:13

Duty cycle = 1.392 ms / 1.584 ms = 87.88%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.56$



Date: 3.JAN.2020 15:23:13

Duty cycle = 1.304 ms / 1.360 ms = 95.88%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.18$



Date: 3.JAN.2020 15:24:07

Duty cycle = 0.620 ms / 0.795 ms = 77.99%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 1.08$

**NOTE:**

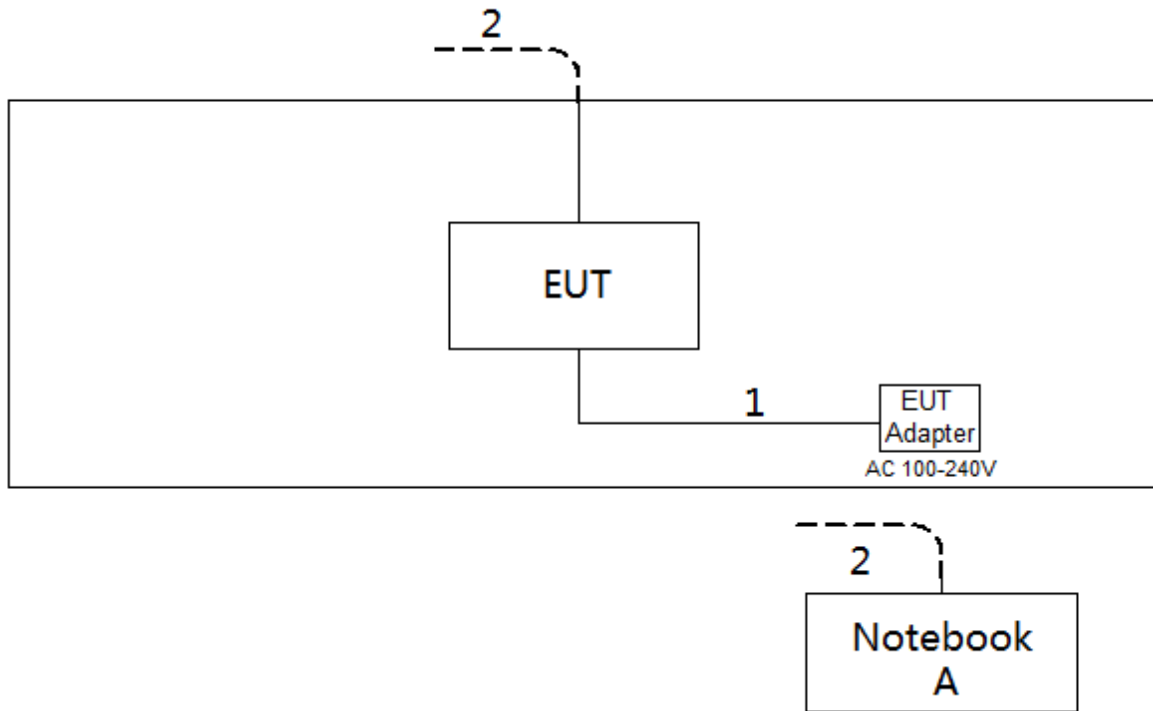
For IEEE 802.11g and IEEE 802.11n (HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle  $< 98\%$ ).

For IEEE 802.11n (HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle  $< 98\%$ ).

## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

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



### 3. AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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

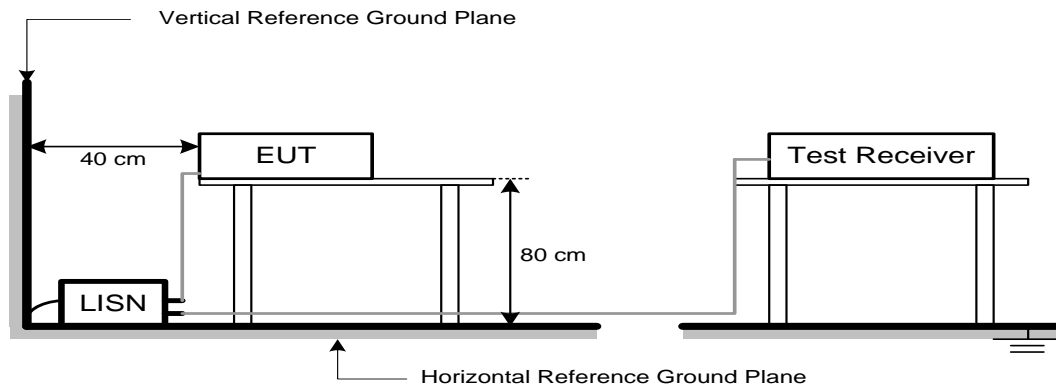
#### 3.2 TEST PROCEDURE

- 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.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

## 4. RADIATED EMISSIONS TEST

### 4.1 LIMIT

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 (9 kHz-1000 MHz)

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
Above 960	500	3

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

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

#### NOTE:

- (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)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

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

#### 4.2 TEST PROCEDURE

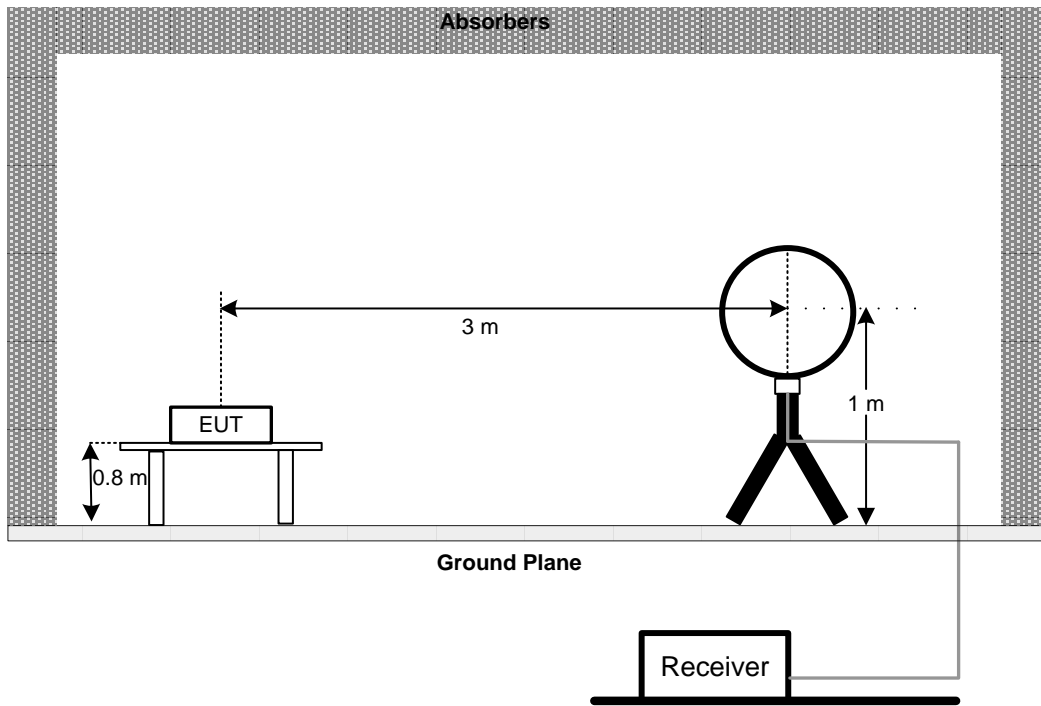
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.3 DEVIATION FROM TEST STANDARD

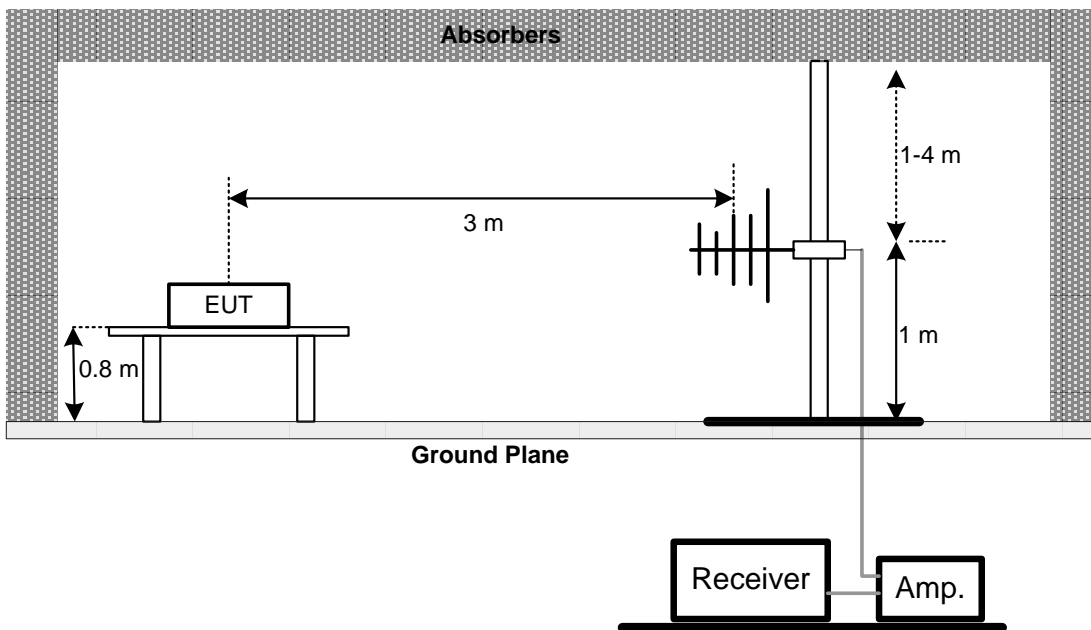
No deviation

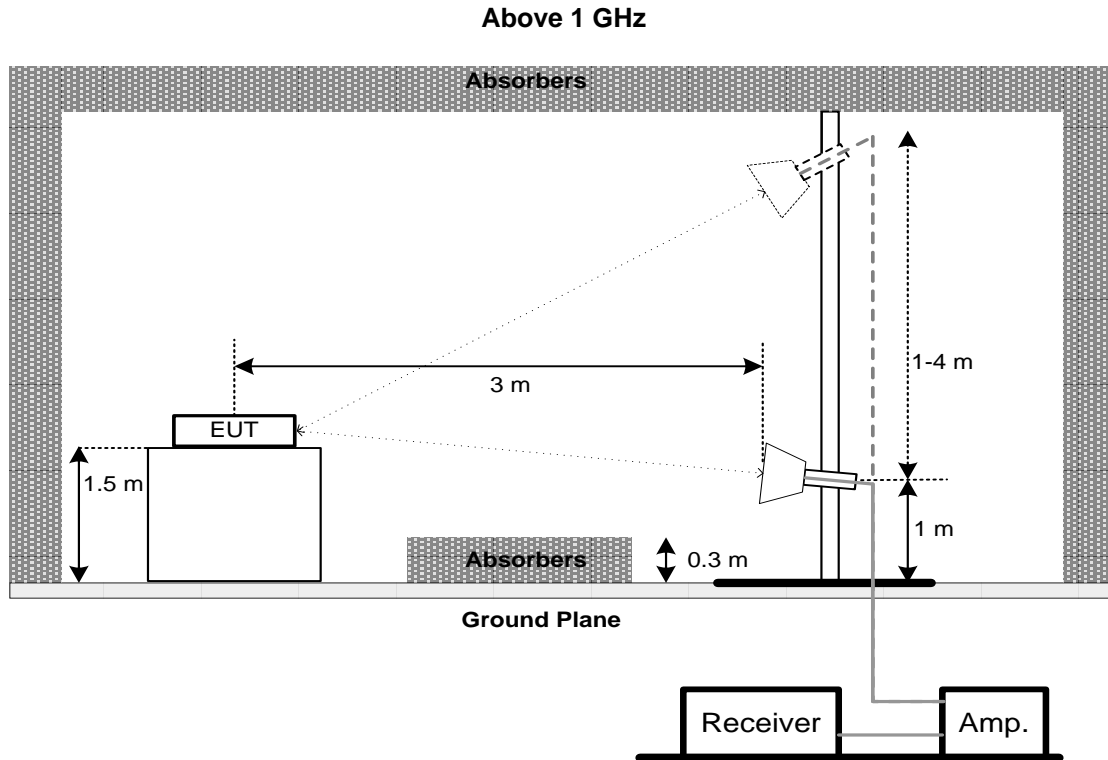
**4.4 TEST SETUP**

**9 kHz-30 MHz**



**30 MHz to 1 GHz**





#### 4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

#### 4.8 TEST RESULTS - ABOVE 1000 MHZ

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 LIMIT**

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

**5.2 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:
  - For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.
  - For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.
  - For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.
- c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

**5.3 DEVIATION FROM STANDARD**

No deviation.

**5.4 TEST SETUP****5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**5.6 TEST RESULTS**

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

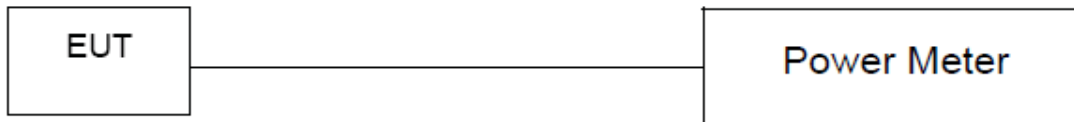
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.



## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 7.2 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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

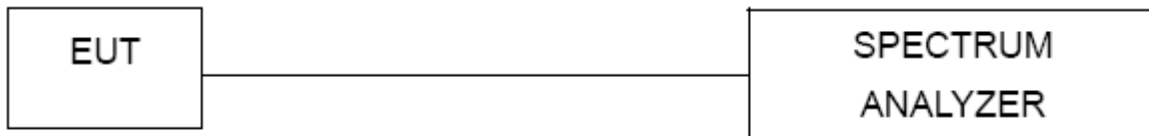
### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May. 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 12, 2020

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	May. 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020
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

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

Remark: "N/A" denotes no model name, serial no. or calibration specified.

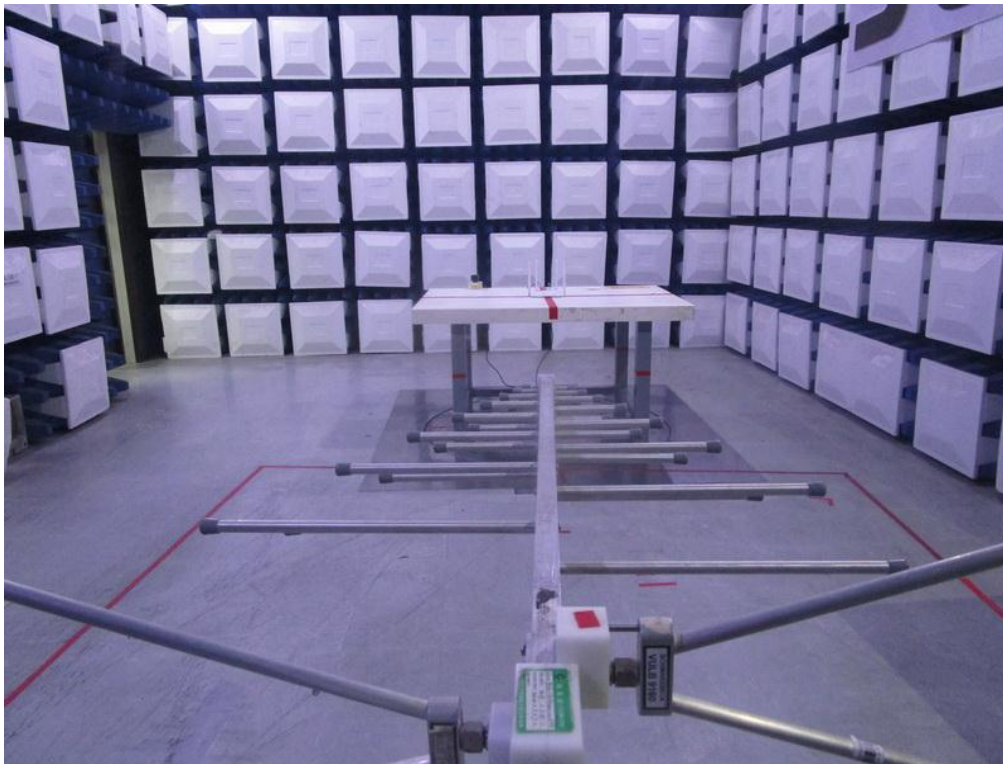
"\*" calibration period of equipment list is three year.

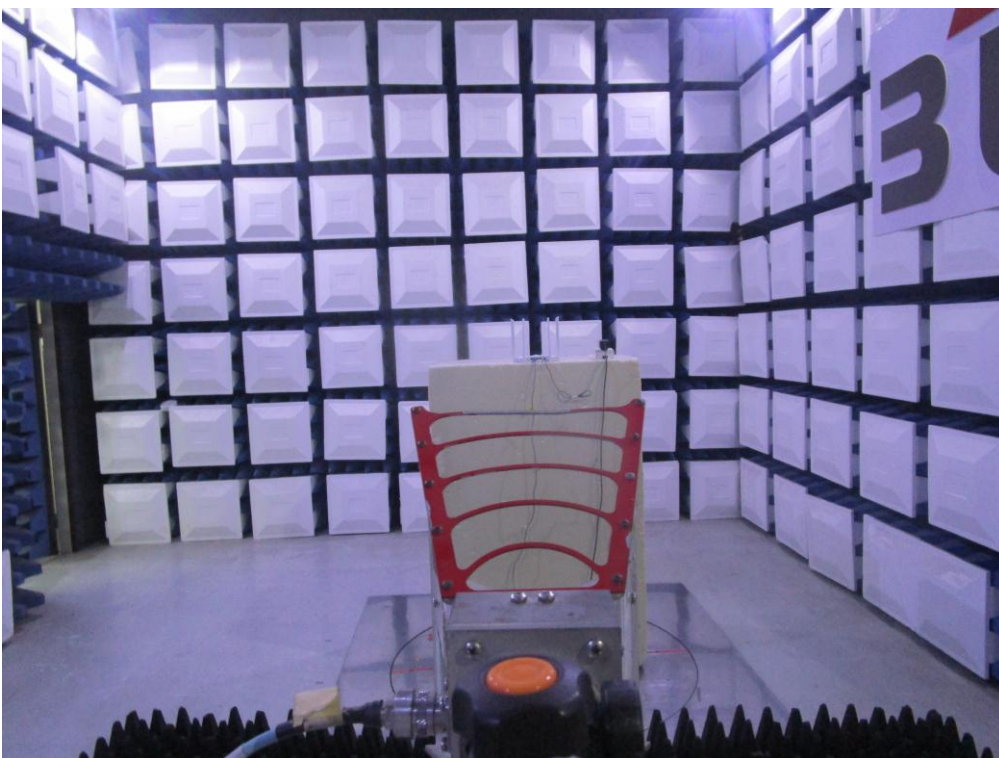
Except \* item, all calibration period of equipment list is one year.

**10. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

**Radiated Emissions Test Photos****9 kHz to 30 MHz**



**Radiated Emissions Test Photos****30 MHz to 1 GHz**

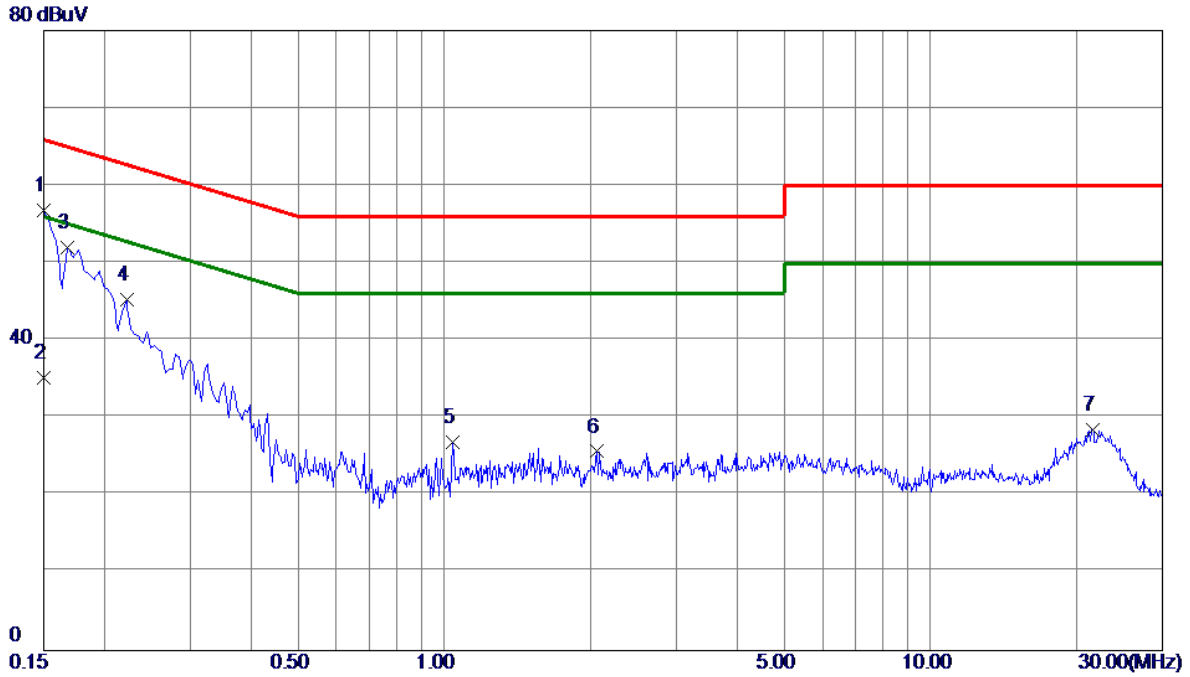
**Radiated Emissions Test Photos****Above 1 GHz**



## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

Test Mode:	TX N20 Mode Channel 06
Test Voltage	AC 120V/60Hz

**Line**

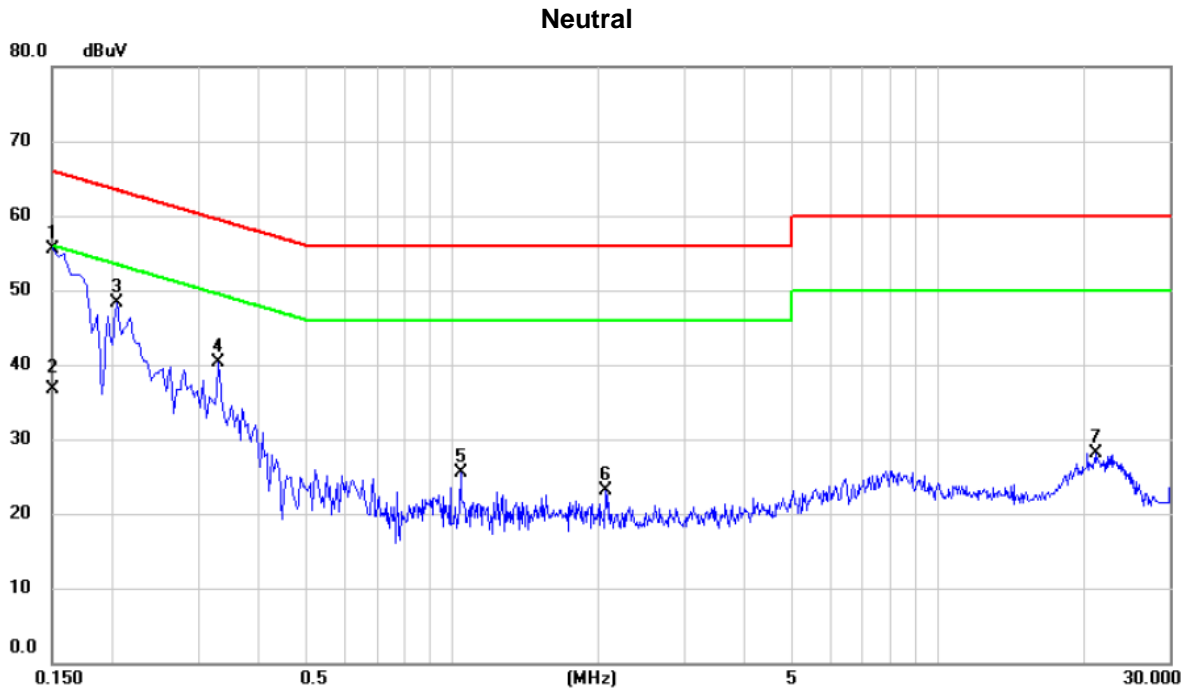


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	46.98	9.82	56.80	66.00	-9.20	Peak	
2	0.1500	25.36	9.82	35.18	56.00	-20.82	AVG	
3	0.1680	42.20	9.82	52.02	65.06	-13.04	Peak	
4	0.2220	35.40	9.82	45.22	62.74	-17.52	Peak	
5	1.0410	16.89	9.92	26.81	56.00	-29.19	Peak	
6	2.0579	15.68	10.00	25.68	56.00	-30.32	Peak	
7	21.5700	17.38	11.17	28.55	60.00	-31.45	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N20 Mode Channel 06
Test Voltage	AC 120V/60Hz



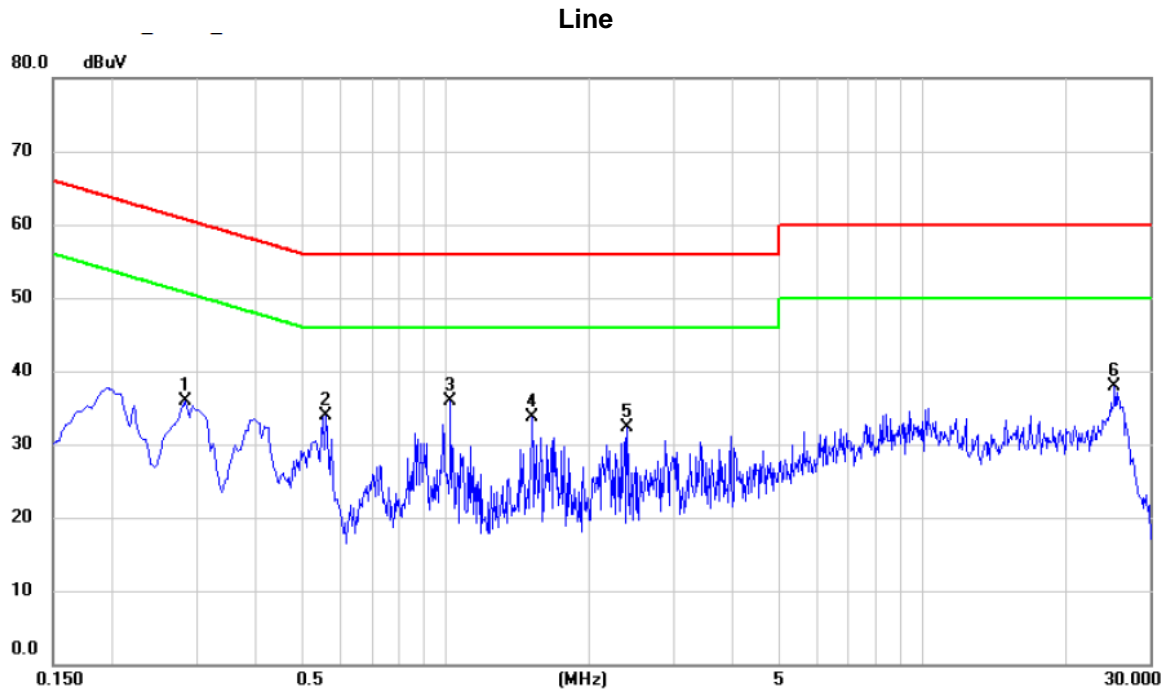
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	45.69	9.91	55.60	66.00	-10.40	peak	
2		0.1500	26.83	9.91	36.74	56.00	-19.26	AVG	
3		0.2040	38.50	9.90	48.40	63.45	-15.05	peak	
4		0.3300	30.41	9.98	40.39	59.45	-19.06	peak	
5		1.0410	15.41	10.12	25.53	56.00	-30.47	peak	
6		2.0760	12.85	10.19	23.04	56.00	-32.96	peak	
7		21.0840	16.67	11.48	28.15	60.00	-31.85	peak	

**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N20 Mode Channel 06
Test Voltage	AC 240V/50Hz



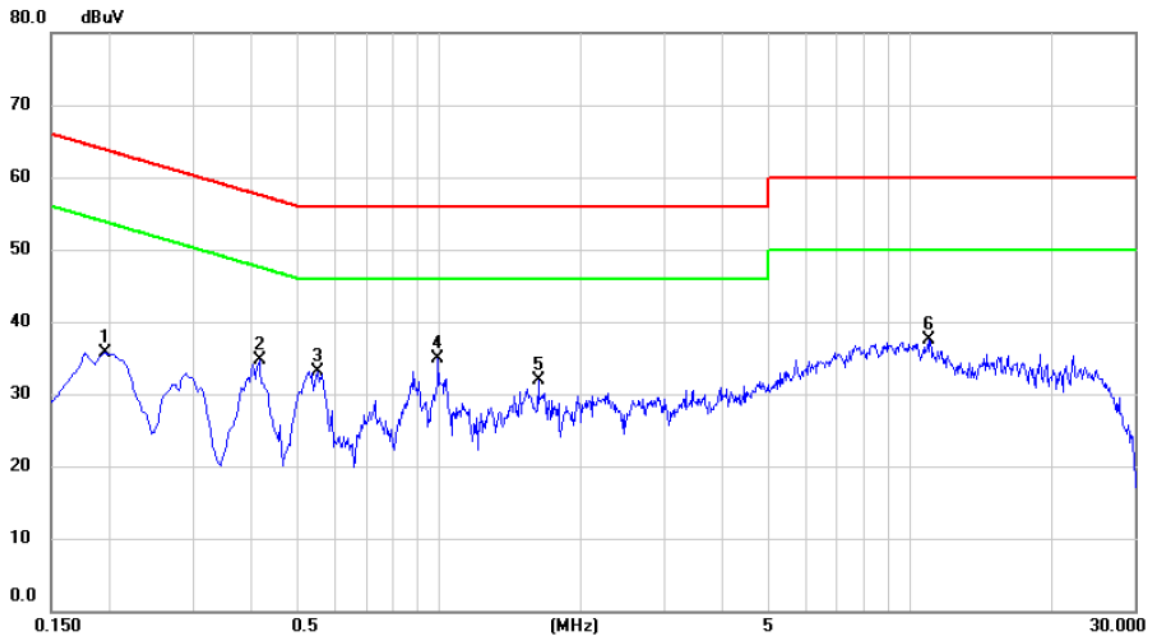
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2850	26.01	9.81	35.82	60.67	-24.85	peak	
2	0.5595	23.99	9.83	33.82	56.00	-22.18	peak	
3 *	1.0230	25.97	9.85	35.82	56.00	-20.18	peak	
4	1.5180	23.88	9.87	33.75	56.00	-22.25	peak	
5	2.4045	22.39	9.91	32.30	56.00	-23.70	peak	
6	25.2825	27.11	10.74	37.85	60.00	-22.15	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N20 Mode Channel 06
Test Voltage	AC 240V/50Hz

### Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1950	25.89	9.87	35.76	63.82	-28.06	peak	
2		0.4155	24.67	9.96	34.63	57.54	-22.91	peak	
3		0.5505	23.08	9.98	33.06	56.00	-22.94	peak	
4	*	0.9960	24.83	10.05	34.88	56.00	-21.12	peak	
5		1.6260	21.89	10.08	31.97	56.00	-24.03	peak	
6		10.9545	26.95	10.55	37.50	60.00	-22.50	peak	

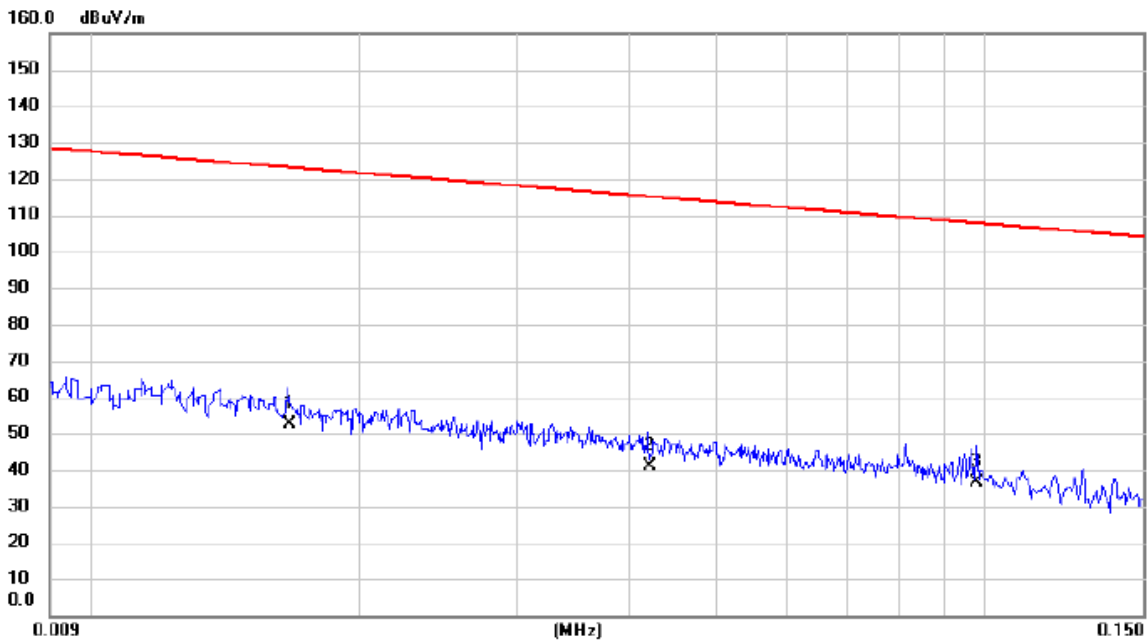
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Test Mode: TX N20 Mode Channel 06

Ant 0°



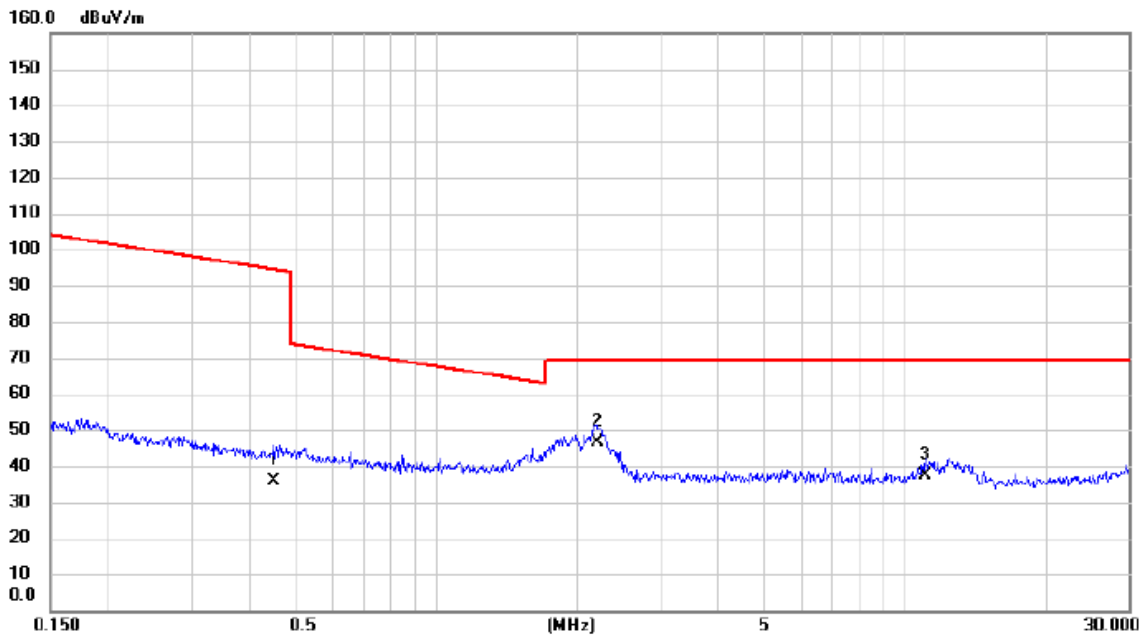
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0167	37.68	14.81	52.49	123.15	-70.66	AVG	
2		0.0421	27.13	13.90	41.03	115.12	-74.09	AVG	
3		0.0978	23.05	13.54	36.59	107.80	-71.21	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N20 Mode Channel 06

Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4492	22.81	13.18	35.99	94.56	-58.57	AVG	
2	*	2.2015	34.93	11.70	46.63	69.54	-22.91	QP	
3		11.0211	25.77	11.62	37.39	69.54	-32.15	QP	

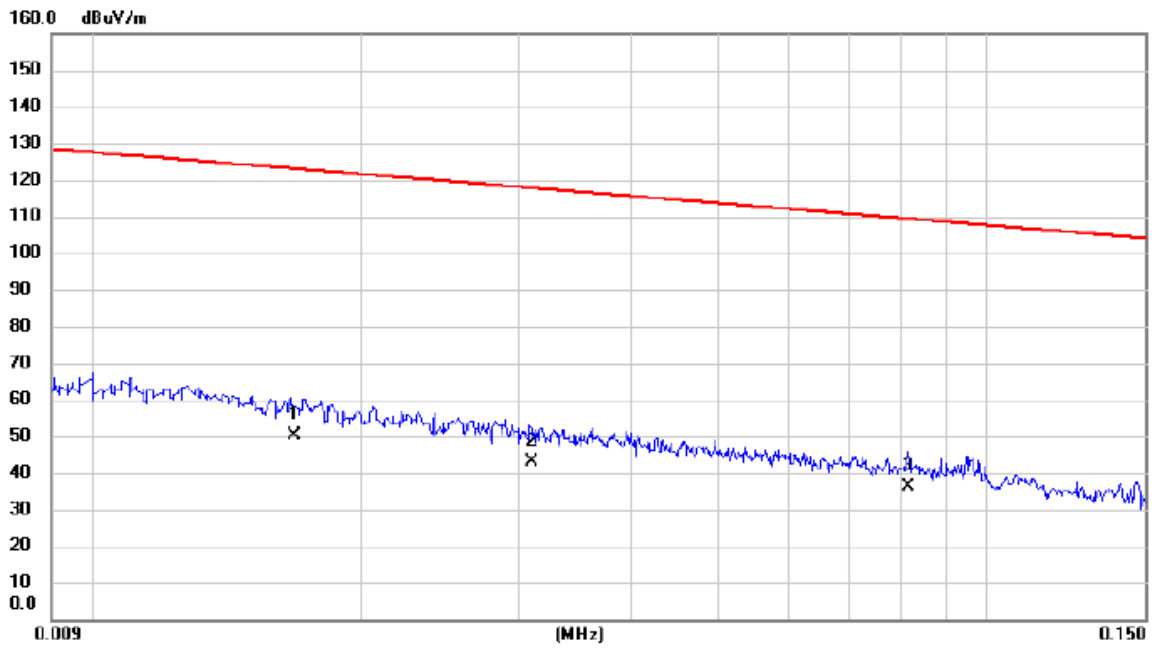
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX N20 Mode Channel 06

**Ant 90°**



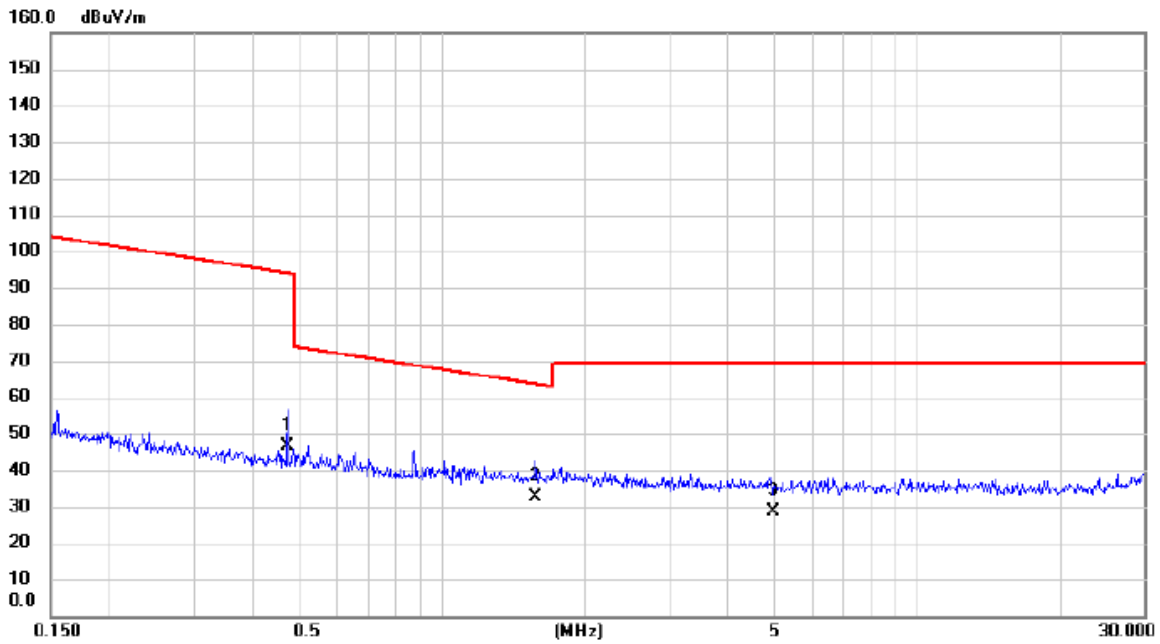
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0168	35.59	14.78	50.37	123.10	-72.73	AVG	
2		0.0310	29.13	13.86	42.99	117.78	-74.79	AVG	
3		0.0815	22.52	13.54	36.06	109.38	-73.32	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N20 Mode Channel 06

**Ant 90°**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4736	33.38	13.12	46.50	94.10	-47.60	AVG	
2	*	1.5766	20.51	12.11	32.62	63.65	-31.03	QP	
3		4.9520	17.86	10.86	28.72	69.54	-40.82	QP	

**REMARKS:**

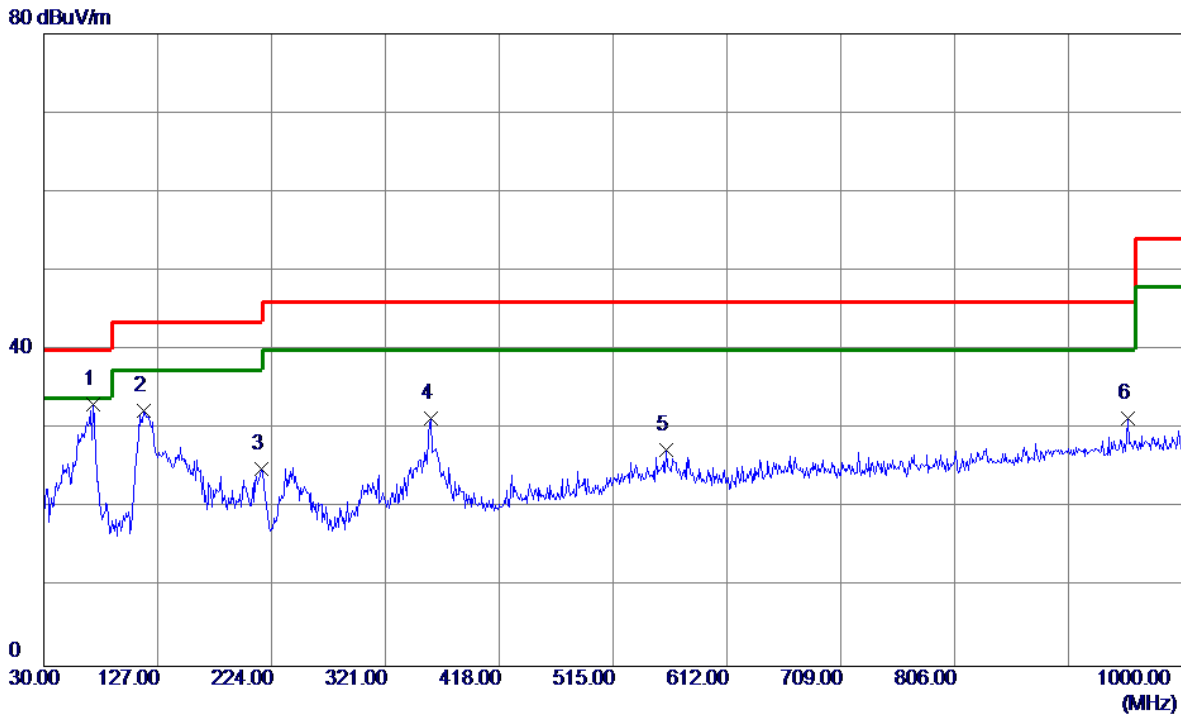
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

**APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

Test Mode: TX N20 Mode Channel 06

### Vertical



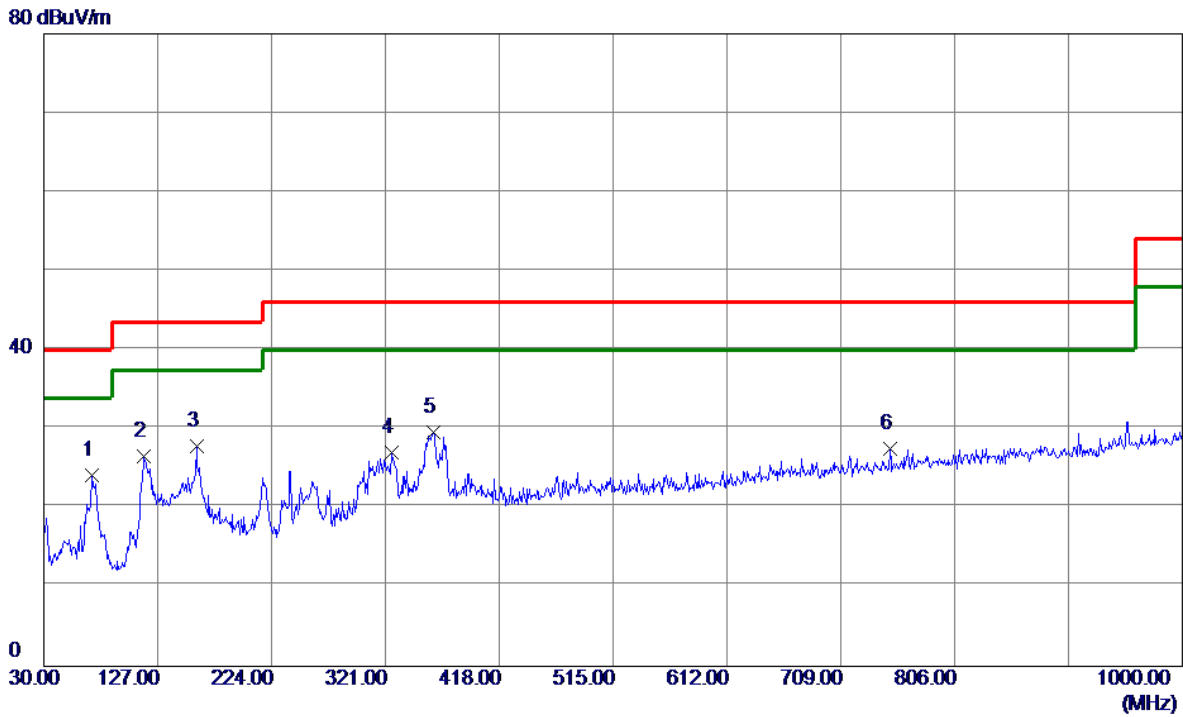
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	71.7100	49.69	-16.56	33.13	40.00	-6.87	Peak	
2	115.3600	46.05	-13.78	32.27	43.50	-11.23	Peak	
3	215.2700	40.19	-15.16	25.03	43.50	-18.47	Peak	
4	359.8000	41.81	-10.51	31.30	46.00	-14.70	Peak	
5	560.5900	34.29	-6.96	27.33	46.00	-18.67	Peak	
6	953.4400	32.03	-0.65	31.38	46.00	-14.62	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N20 Mode Channel 06

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	70.7400	40.50	-16.37	24.13	40.00	-15.87	Peak	
2	115.3600	40.27	-13.78	26.49	43.50	-17.01	Peak	
3 *	159.9800	38.97	-11.07	27.90	43.50	-15.60	Peak	
4	325.8500	38.24	-11.13	27.11	46.00	-18.89	Peak	
5	361.7400	40.02	-10.46	29.56	46.00	-16.44	Peak	
6	750.7100	31.14	-3.66	27.48	46.00	-18.52	Peak	

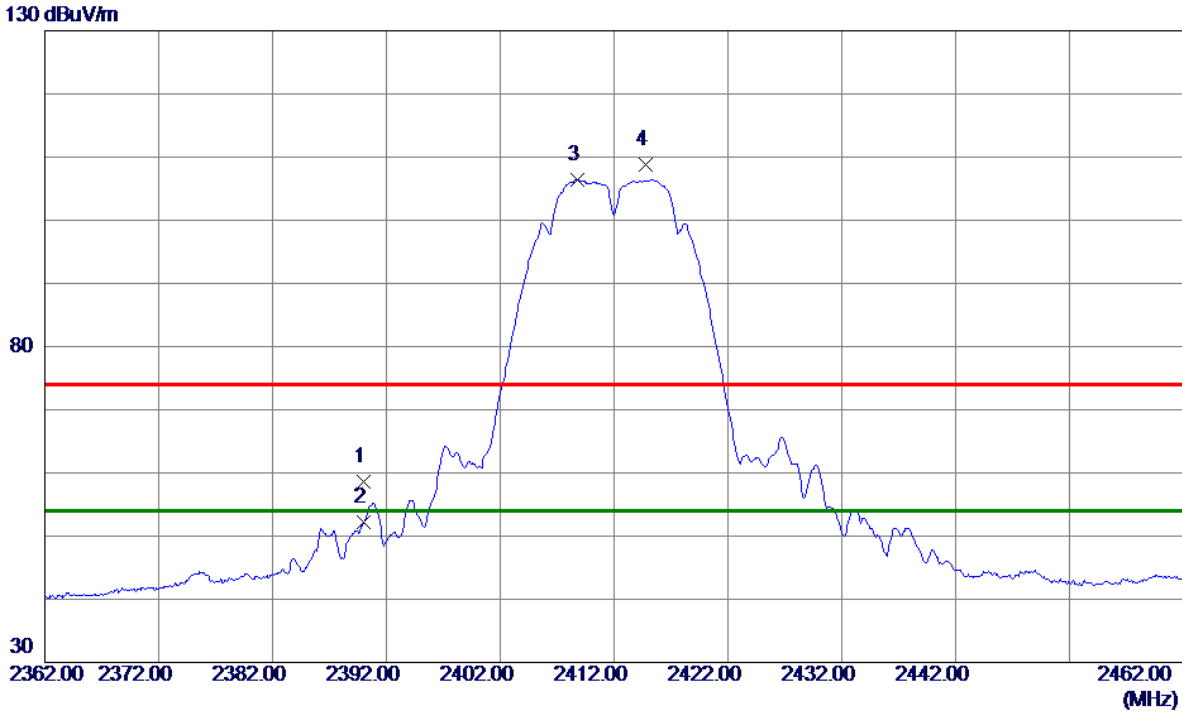
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**

Test Mode: TX B Mode 2412 MHz

### Vertical



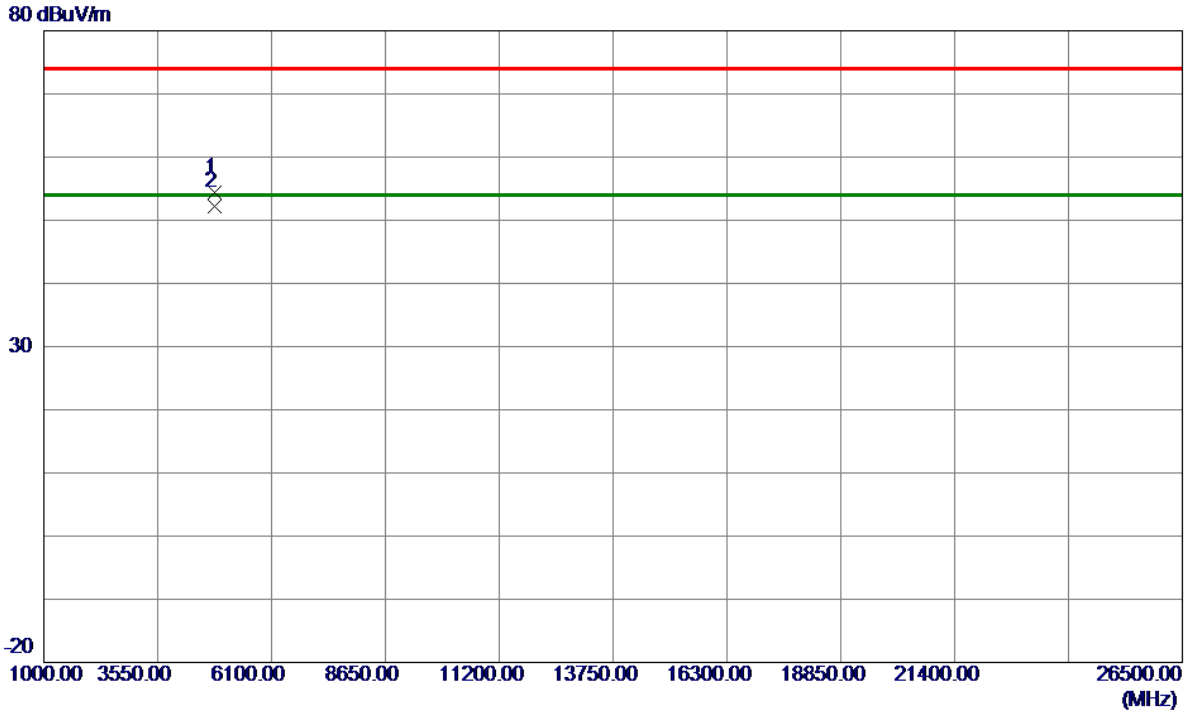
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.61	9.07	58.68	74.00	-15.32	Peak	
2	2390.0000	43.10	9.07	52.17	54.00	-1.83	AVG	
3 *	2408.8000	97.41	9.06	106.47	54.00	52.47	AVG	No Limit
4	2414.8000	99.67	9.06	108.73	74.00	34.73	Peak	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2412 MHz

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9300	46.42	8.04	54.46	74.00	-19.54	Peak	
2 *	4823.9800	44.25	8.04	52.29	54.00	-1.71	AVG	

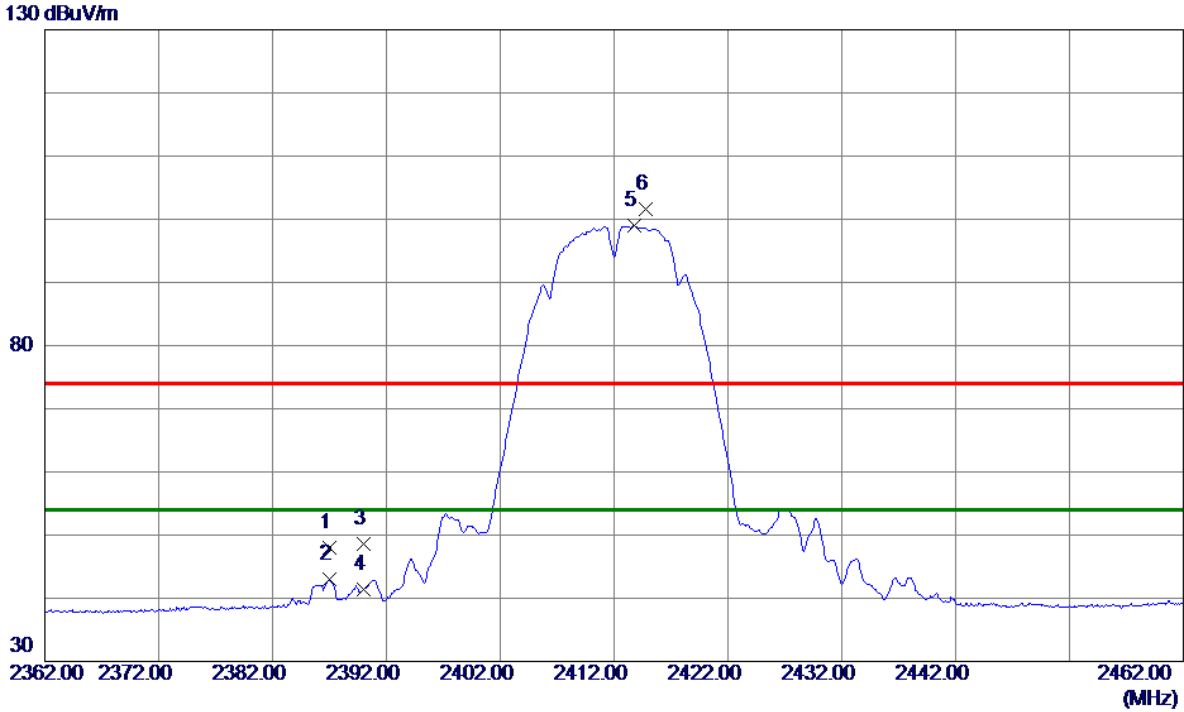
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX B Mode 2412 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.0000	38.99	9.07	48.06	74.00	-25.94	Peak	
2	2387.0000	33.96	9.07	43.03	54.00	-10.97	AVG	
3	2390.0000	39.59	9.07	48.66	74.00	-25.34	Peak	
4	2390.0000	32.41	9.07	41.48	54.00	-12.52	AVG	
5 *	2413.8000	89.92	9.06	98.98	54.00	44.98	AVG	No Limit
6	2414.8000	92.55	9.06	101.61	74.00	27.61	Peak	No Limit

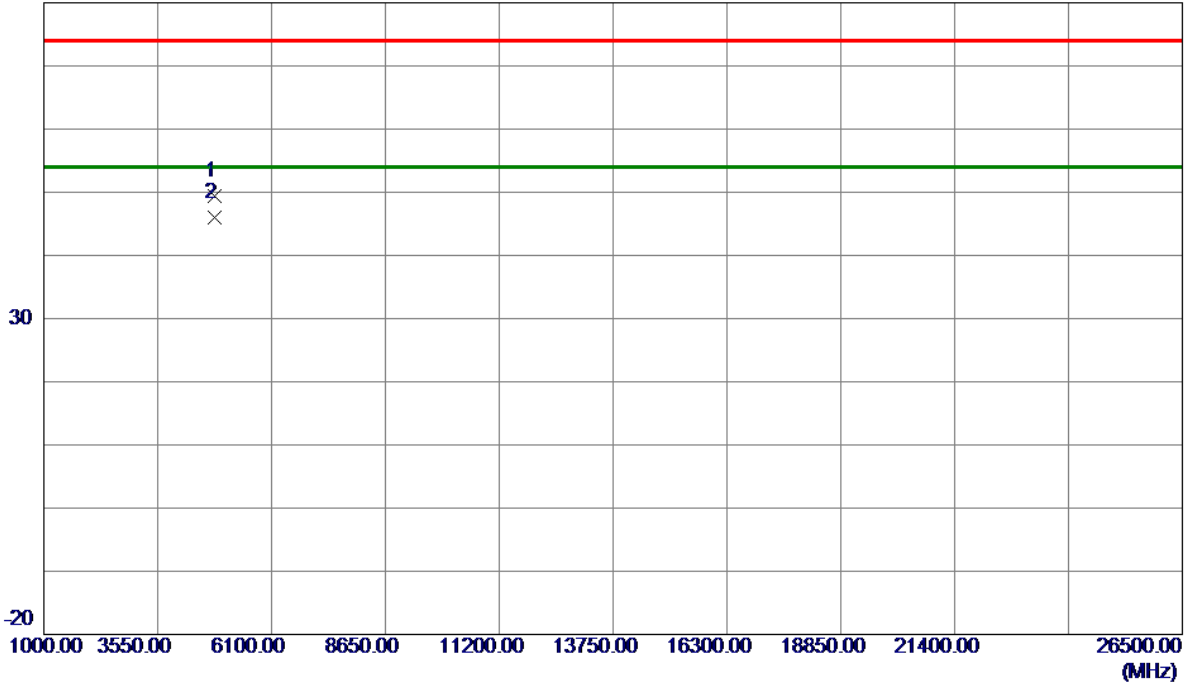
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2412 MHz

### 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	4823.9000	41.36	8.04	49.40	74.00	-24.60	Peak	
2 *	4824.0099	37.98	8.04	46.02	54.00	-7.98	AVG	

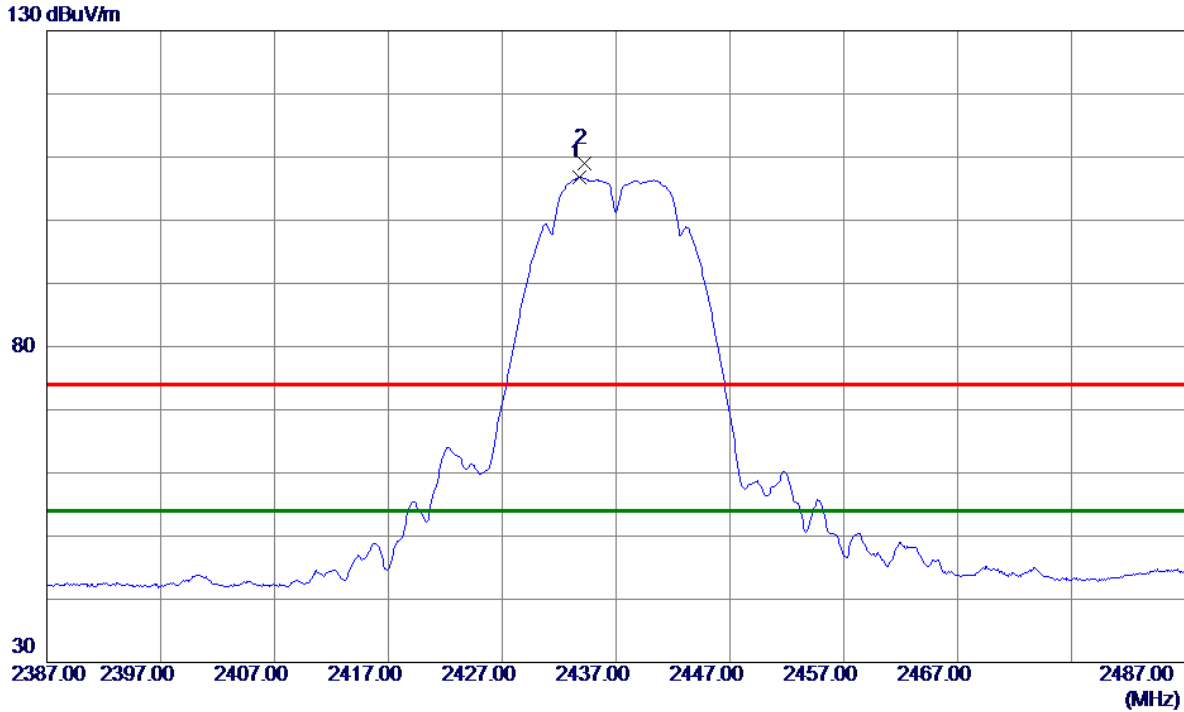
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2433.8000	97.78	9.04	106.82	54.00	52.82	AVG	No Limit
2	2434.2000	100.00	9.04	109.04	74.00	35.04	Peak	No Limit

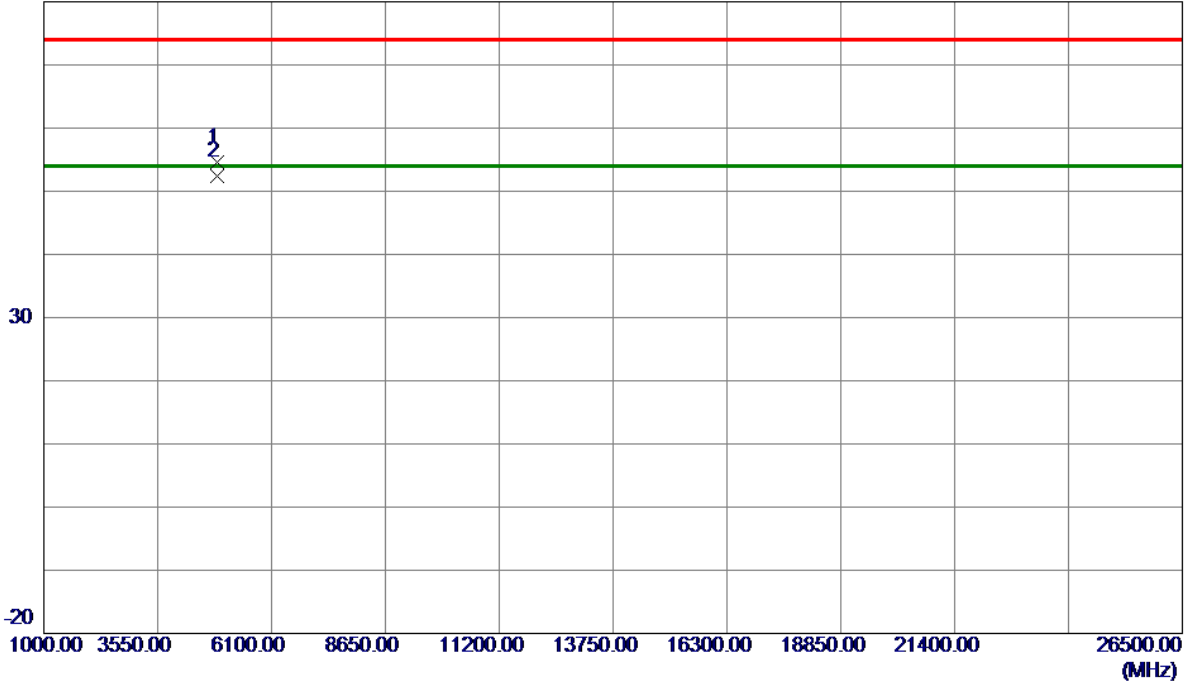
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

### Vertical

80 dBuV/m



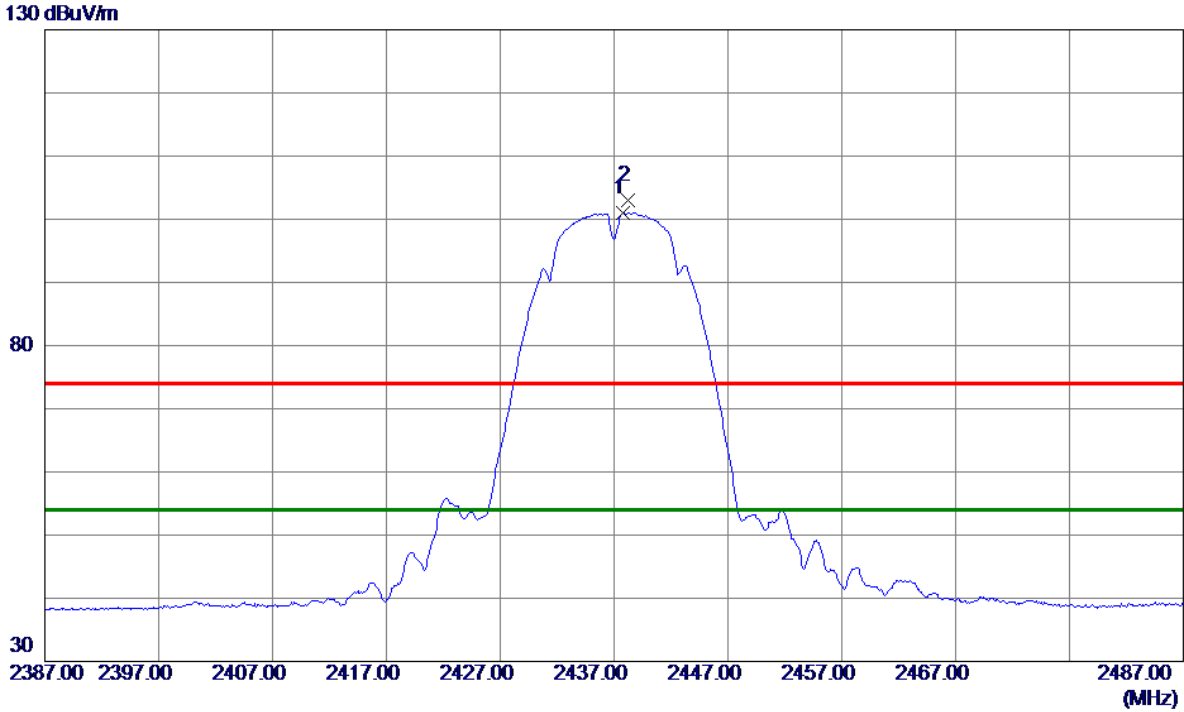
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8800	46.42	8.21	54.63	74.00	-19.37	Peak	
2 *	4874.0000	44.19	8.21	52.40	54.00	-1.60	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.8000	91.94	9.04	100.98	54.00	46.98	AVG	No Limit
2	2438.2000	93.99	9.04	103.03	74.00	29.03	Peak	No Limit

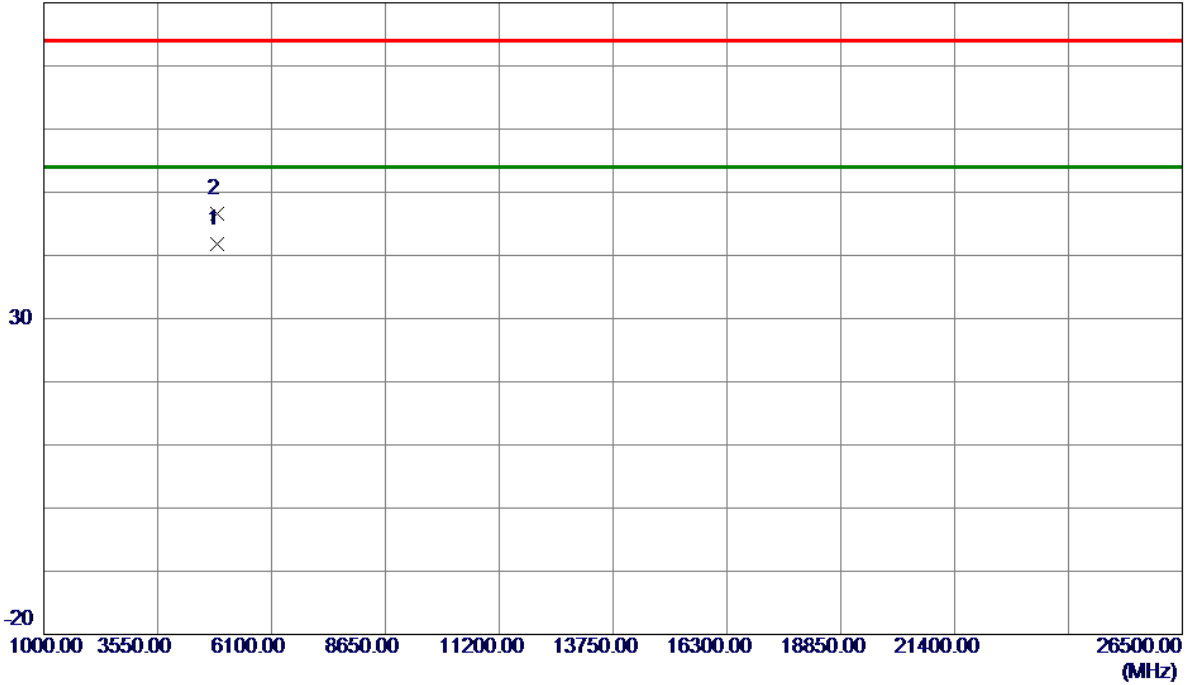
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

### 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 *	4873.9500	33.59	8.21	41.80	54.00	-12.20	AVG	
2	4873.9700	38.48	8.21	46.69	74.00	-27.31	Peak	

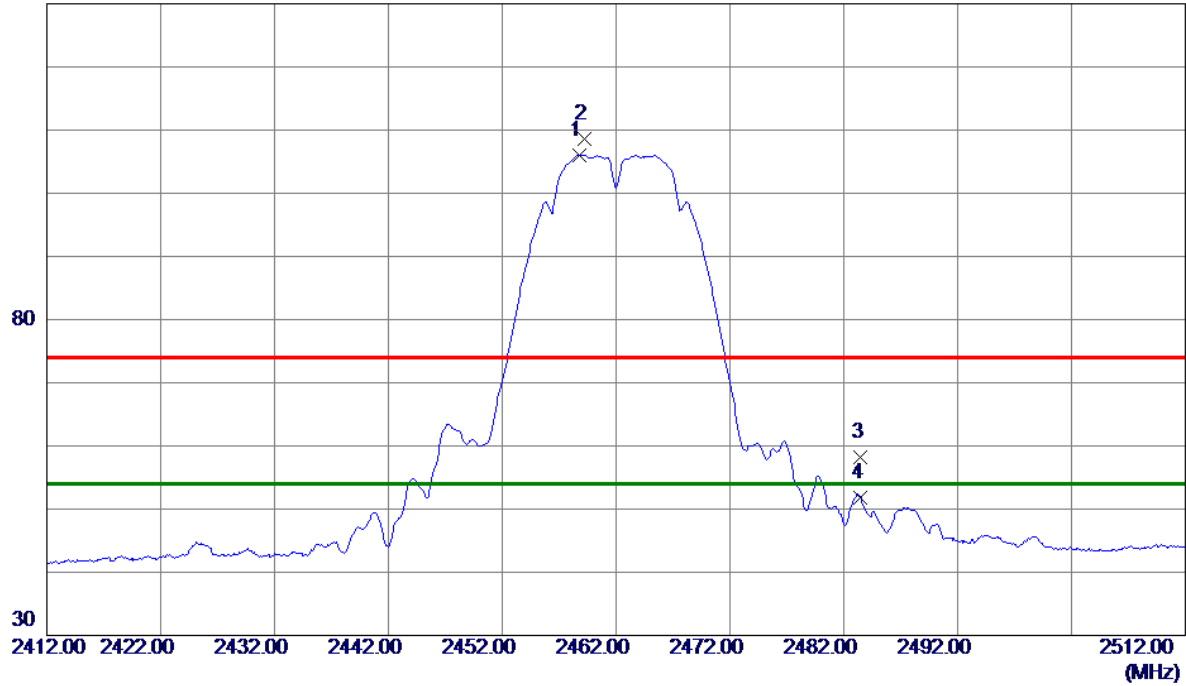
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

### Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.8000	97.03	9.03	106.06	54.00	52.06	AVG	No Limit
2	2459.2000	99.50	9.03	108.53	74.00	34.53	Peak	No Limit
3	2483.5000	49.26	9.01	58.27	74.00	-15.73	Peak	
4	2483.5000	42.78	9.01	51.79	54.00	-2.21	AVG	

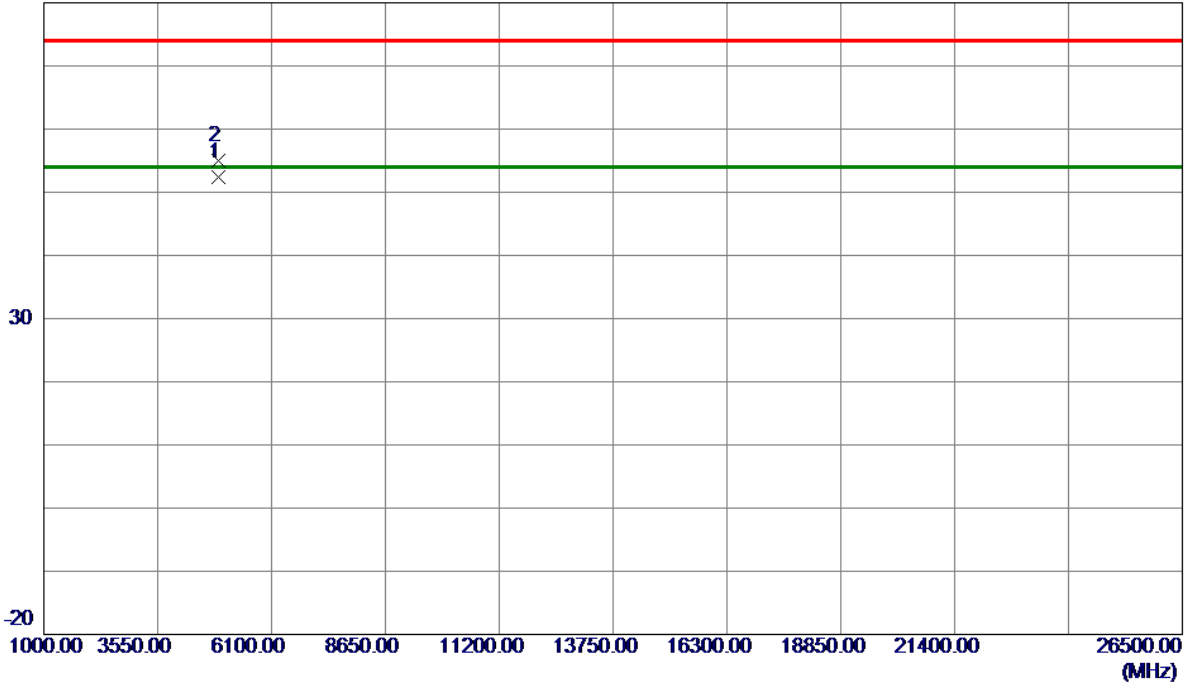
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

### 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 *	4923.9750	44.01	8.38	52.39	54.00	-1.61	AVG	
2	4924.0000	46.55	8.38	54.93	74.00	-19.07	Peak	

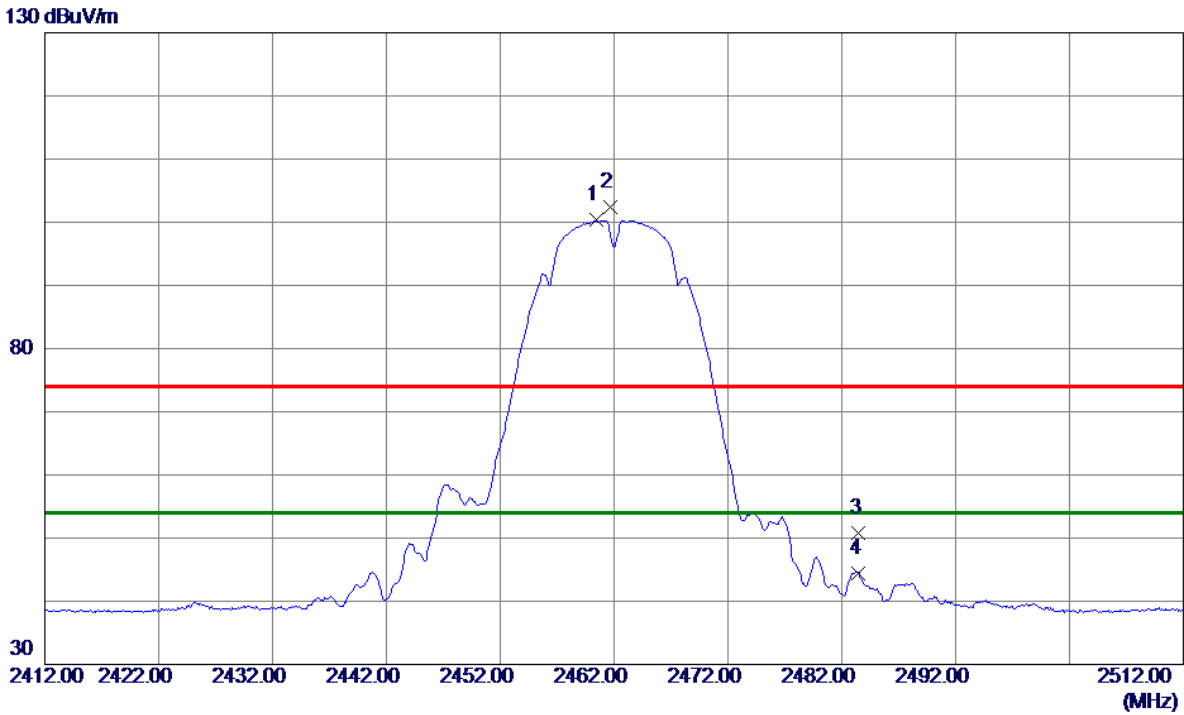
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX B Mode 2462 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.4000	91.28	9.03	100.31	54.00	46.31	AVG	No Limit
2	2461.7000	93.33	9.03	102.36	74.00	28.36	Peak	No Limit
3	2483.5000	41.85	9.01	50.86	74.00	-23.14	Peak	
4	2483.5000	35.36	9.01	44.37	54.00	-9.63	AVG	

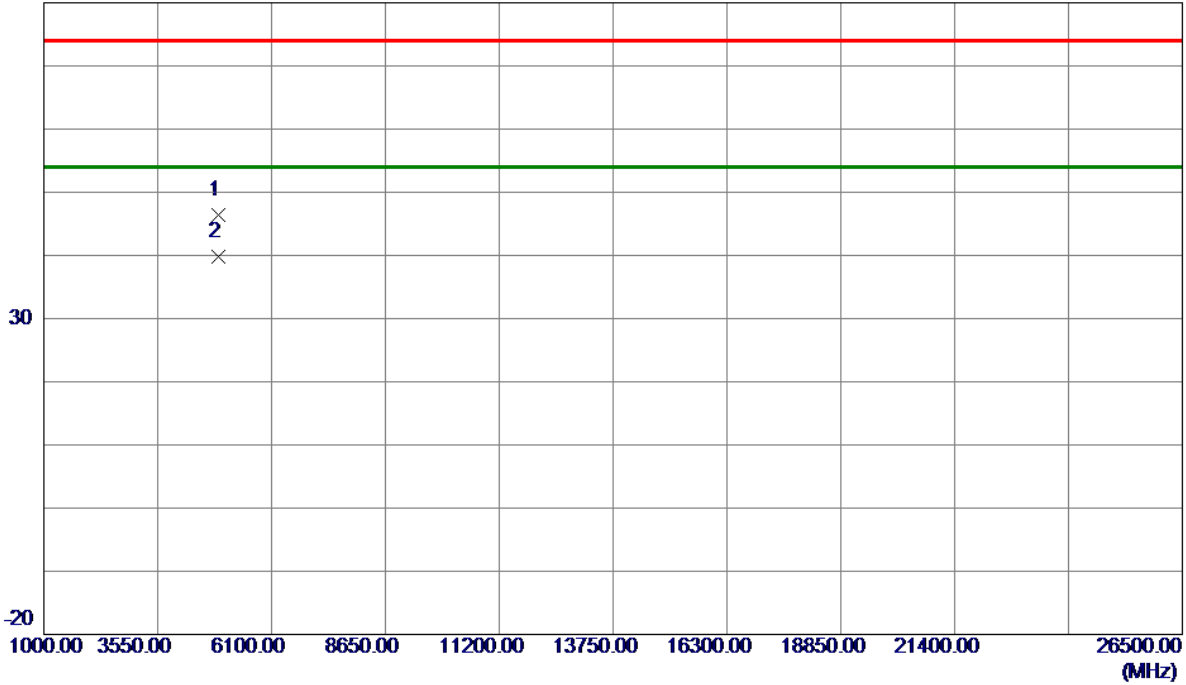
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

### 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	4923.9200	38.02	8.38	46.40	74.00	-27.60	Peak	
2 *	4923.9300	31.51	8.38	39.89	54.00	-14.11	AVG	

**REMARKS:**

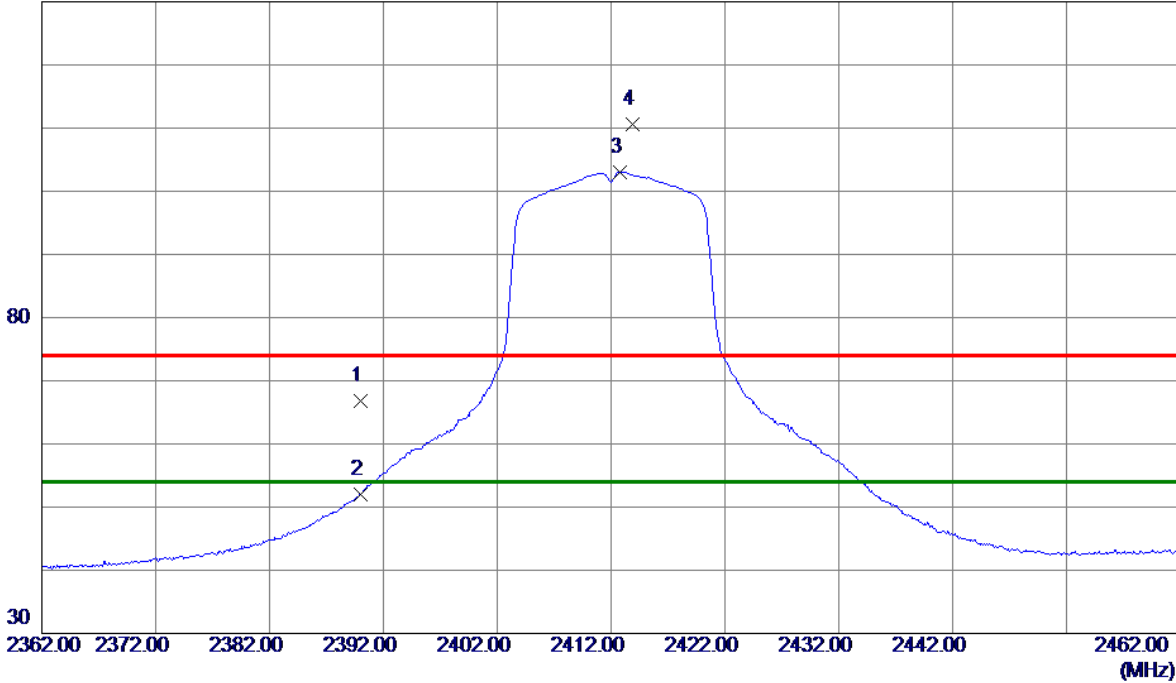
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412 MHz

### Vertical

130 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	57.67	9.07	66.74	74.00	-7.26	Peak	
2	2390.0000	42.98	9.07	52.05	54.00	-1.95	AVG	
3 *	2412.8000	93.99	9.06	103.05	54.00	49.05	AVG	No Limit
4	2413.9000	101.49	9.06	110.55	74.00	36.55	Peak	No Limit

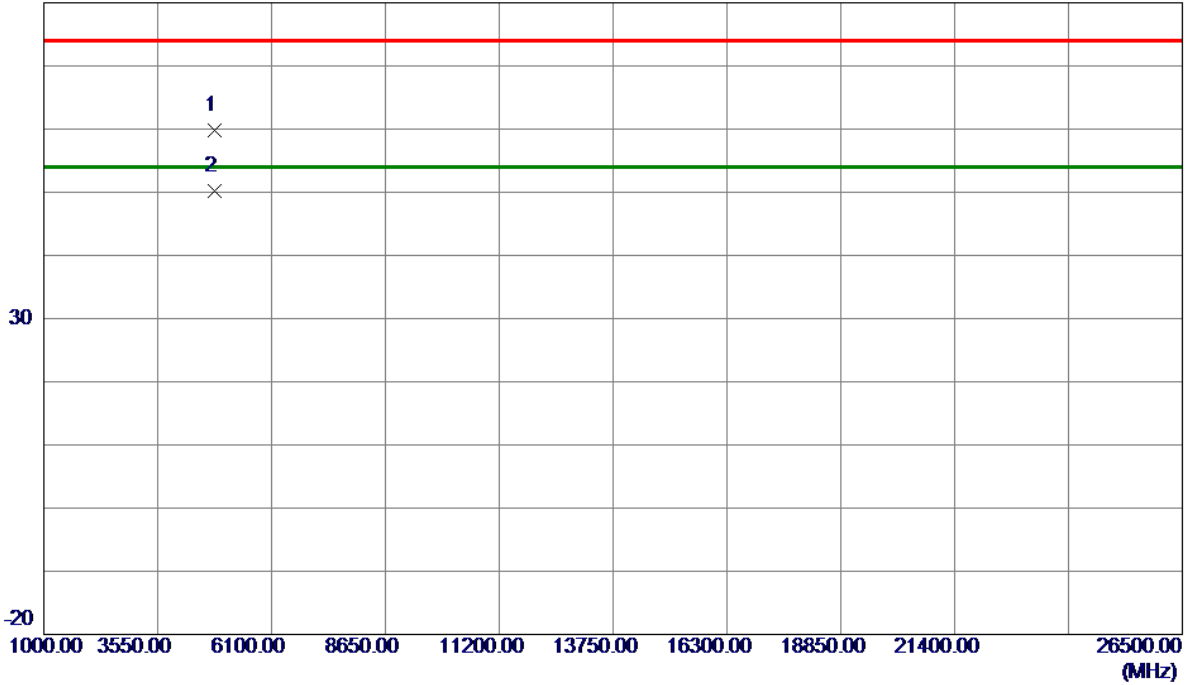
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412 MHz

### Vertical

80 dBuV/m



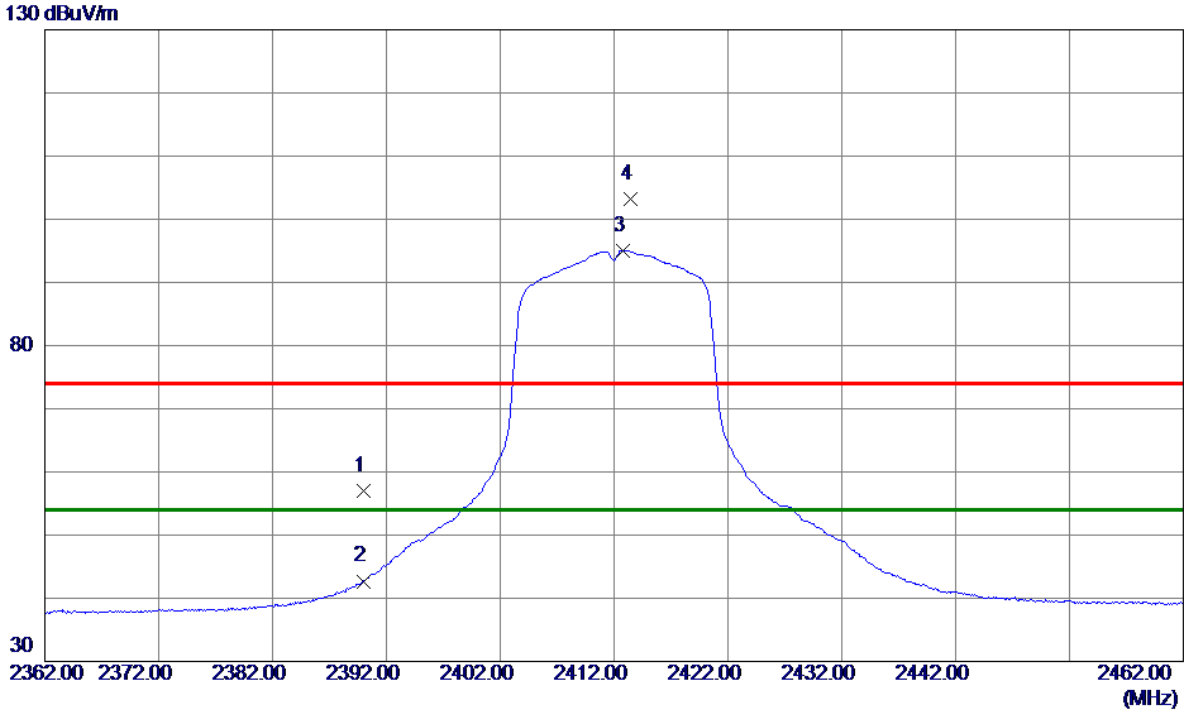
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4820.2000	51.82	8.03	59.85	74.00	-14.15	Peak	
2 *	4824.2000	42.22	8.04	50.26	54.00	-3.74	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412 MHz

### 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	47.94	9.07	57.01	74.00	-16.99	Peak	
2	2390.0000	33.63	9.07	42.70	54.00	-11.30	AVG	
3 *	2412.8000	86.03	9.06	95.09	54.00	41.09	AVG	No Limit
4	2413.4000	94.17	9.06	103.23	74.00	29.23	Peak	No Limit

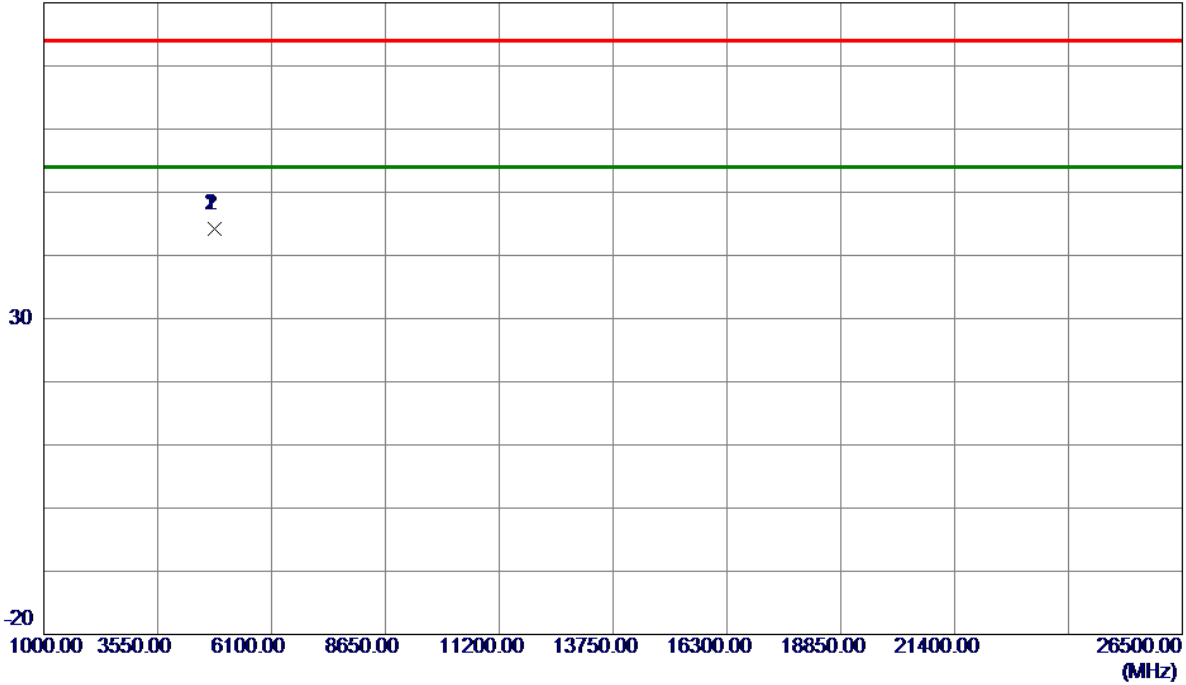
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412 MHz

### 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 *	4814.0200	36.20	8.01	44.21	54.00	-9.79	AVG	
2	4828.1400	36.21	8.05	44.26	74.00	-29.74	Peak	

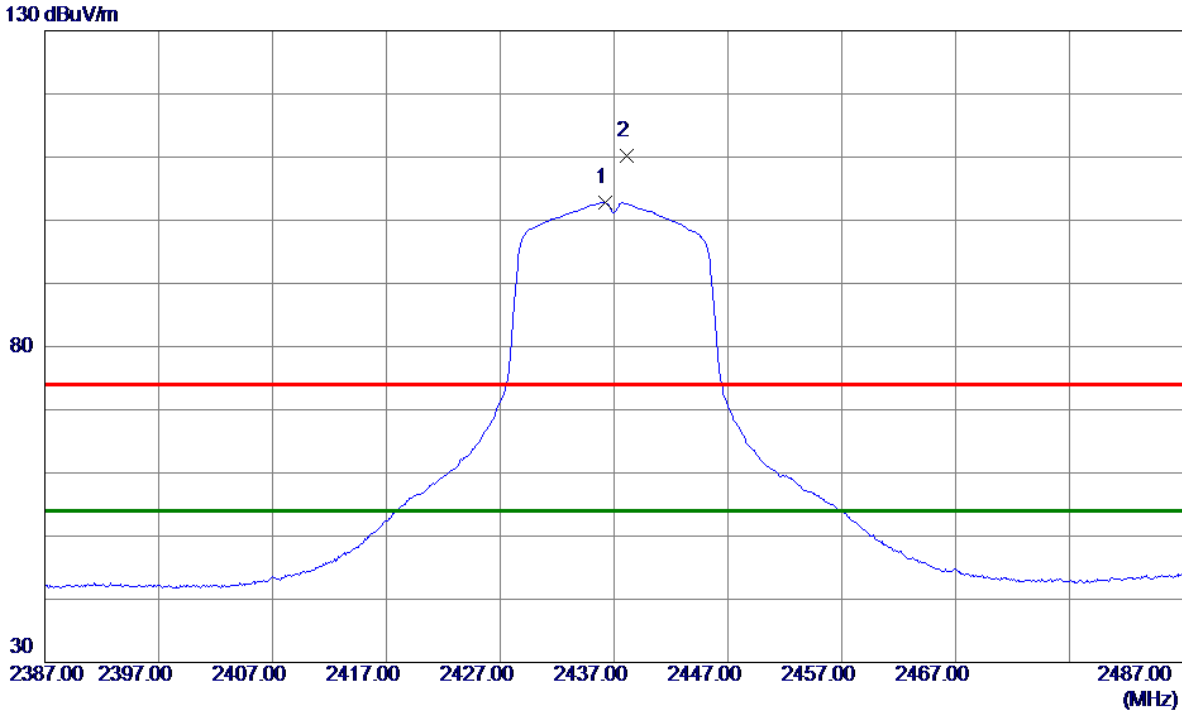
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2437 MHz

**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	93.71	9.04	102.75	54.00	48.75	AVG	No Limit
2	2438.1000	101.15	9.04	110.19	74.00	36.19	Peak	No Limit

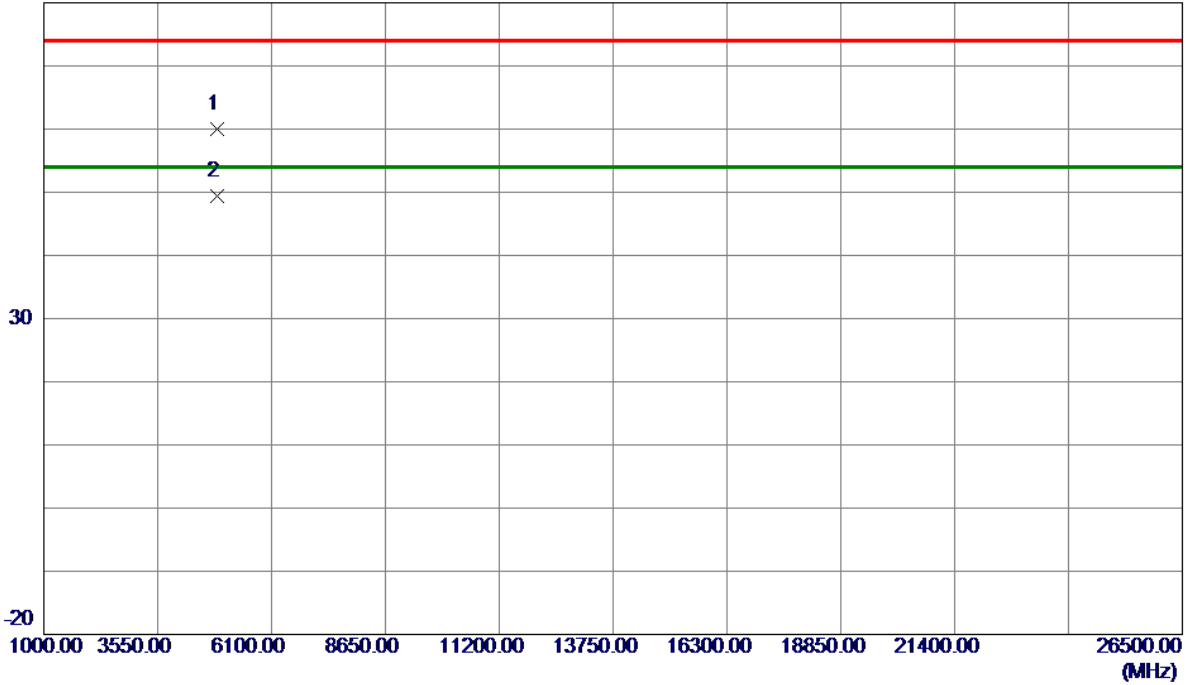
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2437 MHz

### 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	4873.2000	51.73	8.21	59.94	74.00	-14.06	Peak	
2 *	4873.5500	41.27	8.21	49.48	54.00	-4.52	AVG	

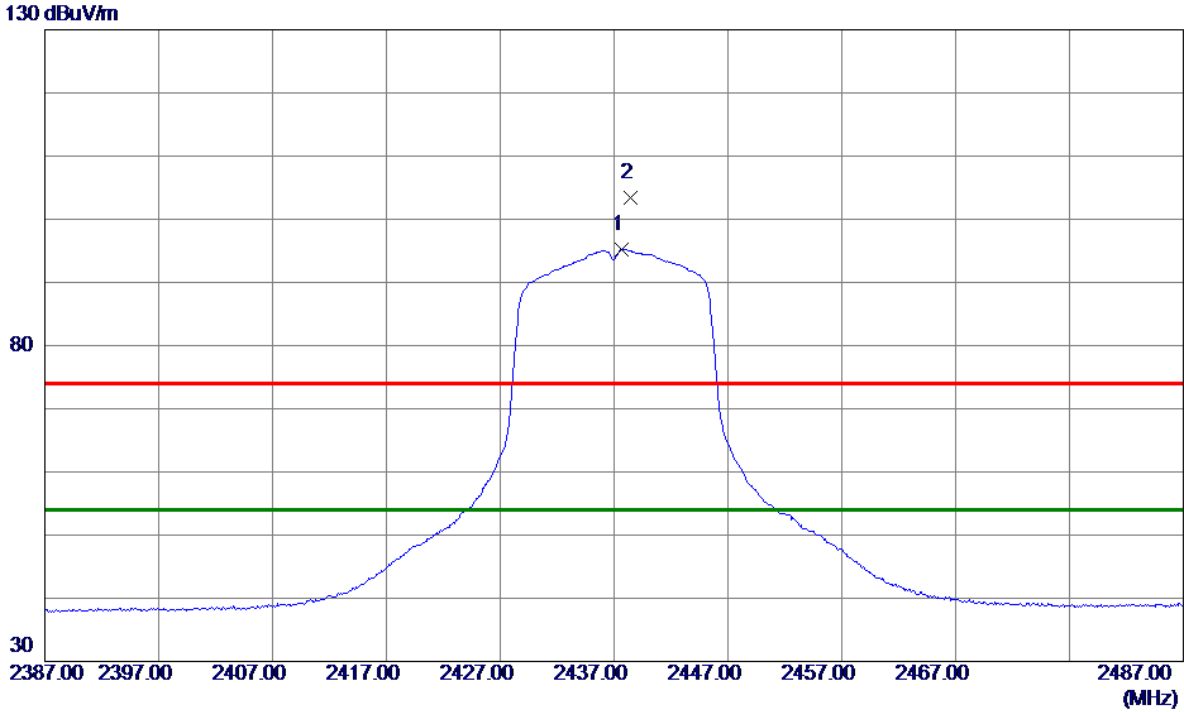
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode 2437 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.7000	86.17	9.04	95.21	54.00	41.21	AVG	No Limit
2	2438.4000	94.37	9.04	103.41	74.00	29.41	Peak	No Limit

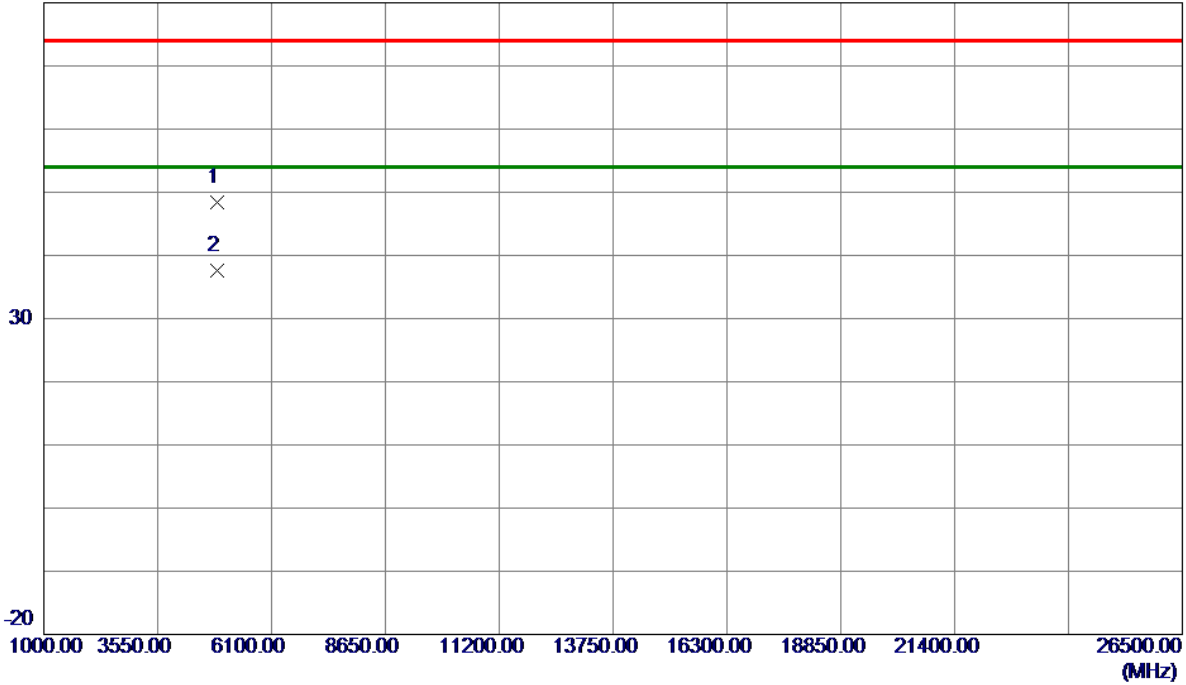
#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2437 MHz

### 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	4872.2599	40.16	8.20	48.36	74.00	-25.64	Peak	
2 *	4873.7000	29.43	8.21	37.64	54.00	-16.36	AVG	

**REMARKS:**

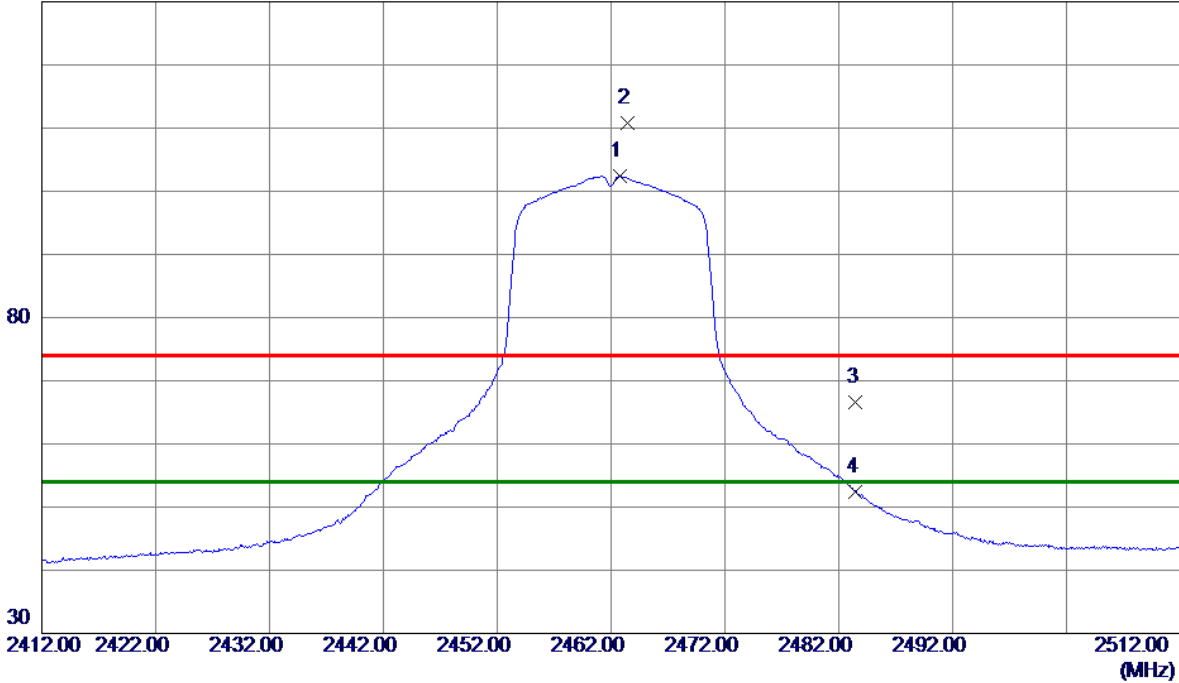
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

### Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.8000	93.34	9.03	102.37	54.00	48.37	AVG	No Limit
2	2463.4000	101.68	9.03	110.71	74.00	36.71	Peak	No Limit
3	2483.5000	57.59	9.01	66.60	74.00	-7.40	Peak	
4	2483.5000	43.48	9.01	52.49	54.00	-1.51	AVG	

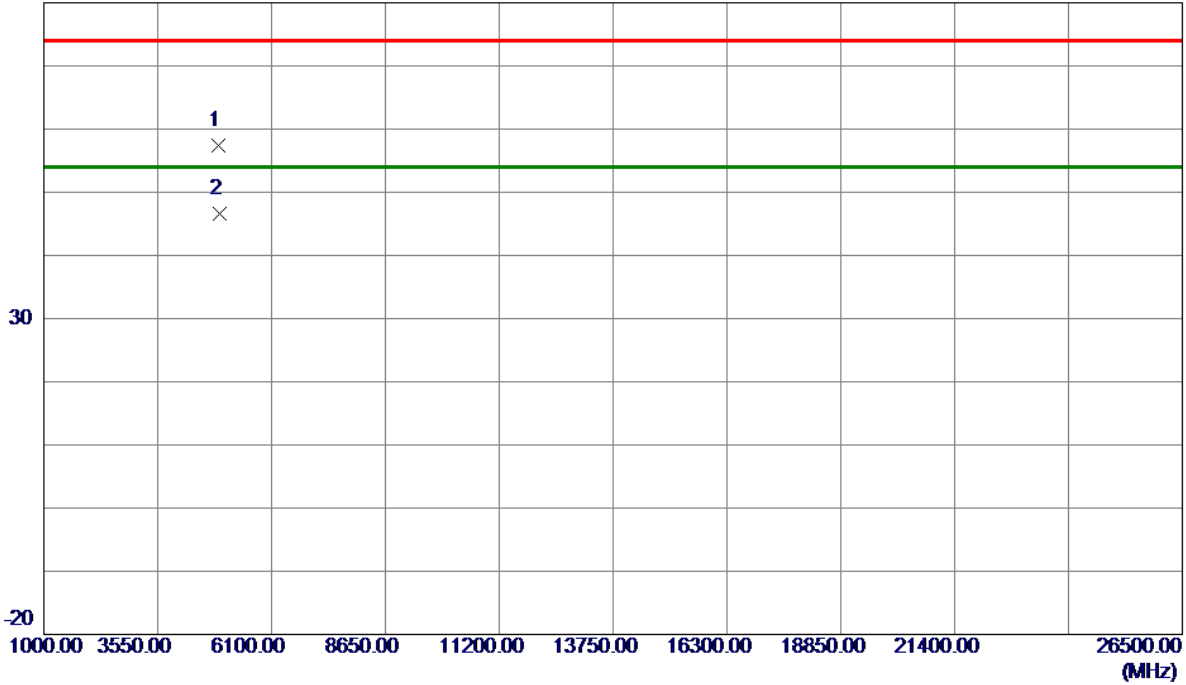
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

### Vertical

80 dBuV/m



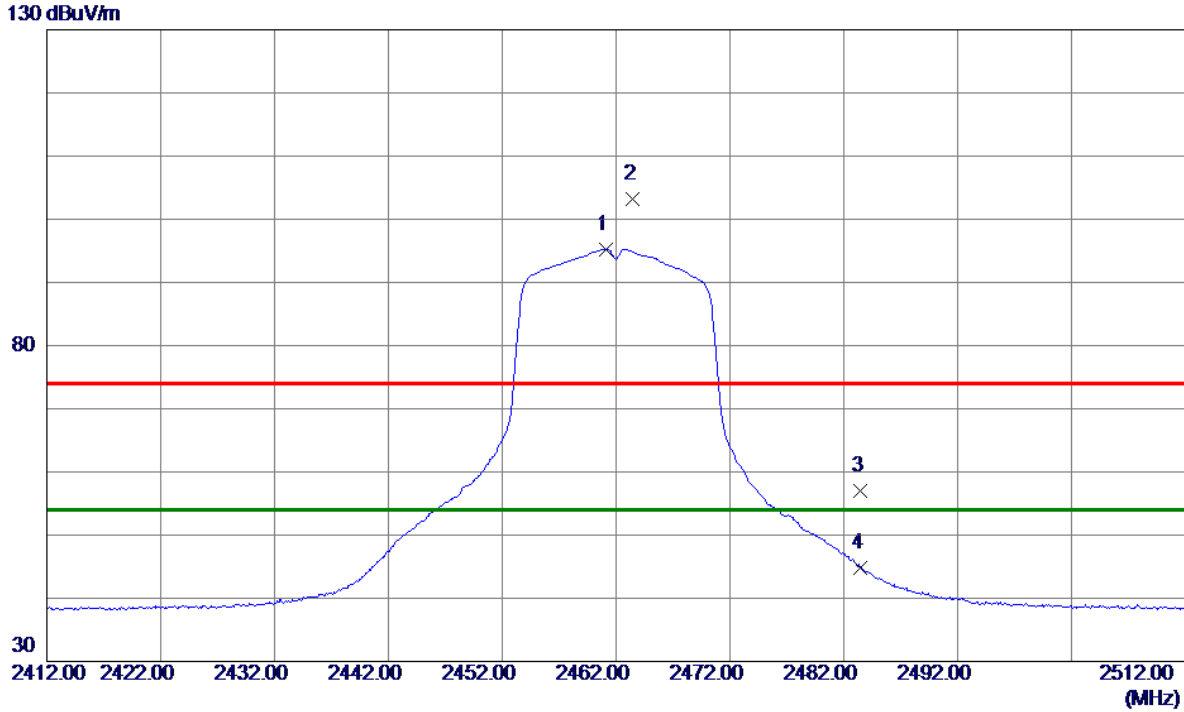
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.2000	49.05	8.37	57.42	74.00	-16.58	Peak	
2 *	4924.3500	38.16	8.38	46.54	54.00	-7.46	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1000	86.20	9.03	95.23	54.00	41.23	AVG	No Limit
2	2463.5000	94.21	9.03	103.24	74.00	29.24	Peak	No Limit
3	2483.5000	48.06	9.01	57.07	74.00	-16.93	Peak	
4	2483.5000	35.83	9.01	44.84	54.00	-9.16	AVG	

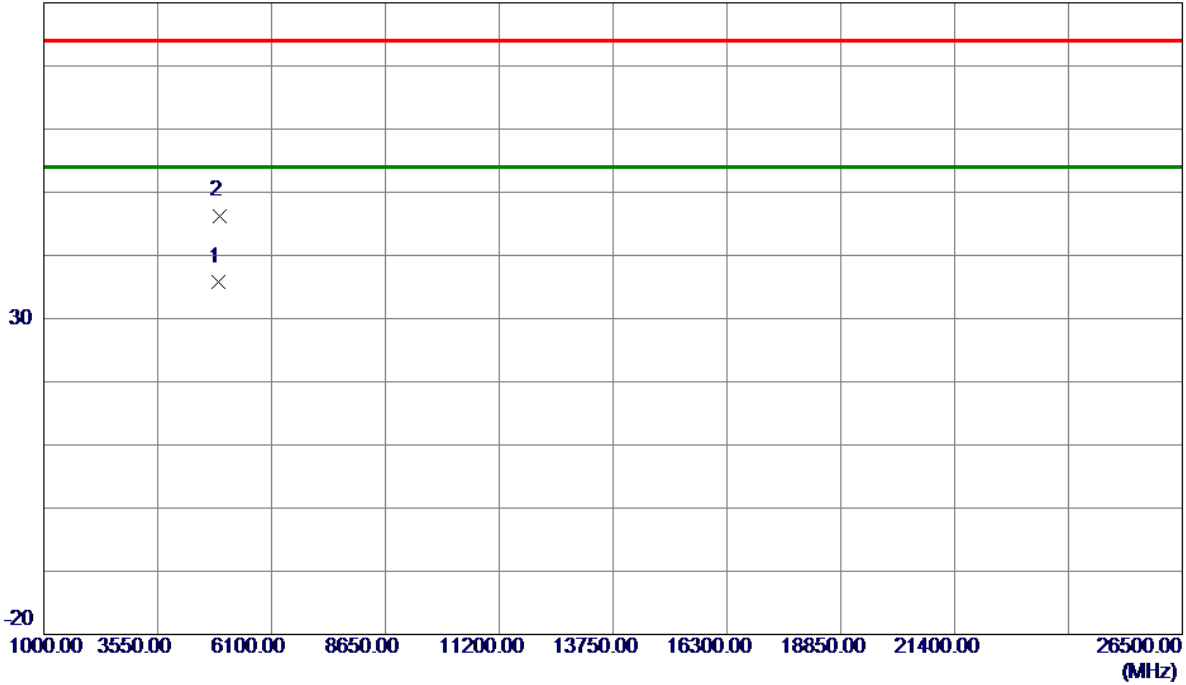
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

### 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 *	4923.6200	27.43	8.37	35.80	54.00	-18.20	AVG	
2	4925.6400	37.92	8.38	46.30	74.00	-27.70	Peak	

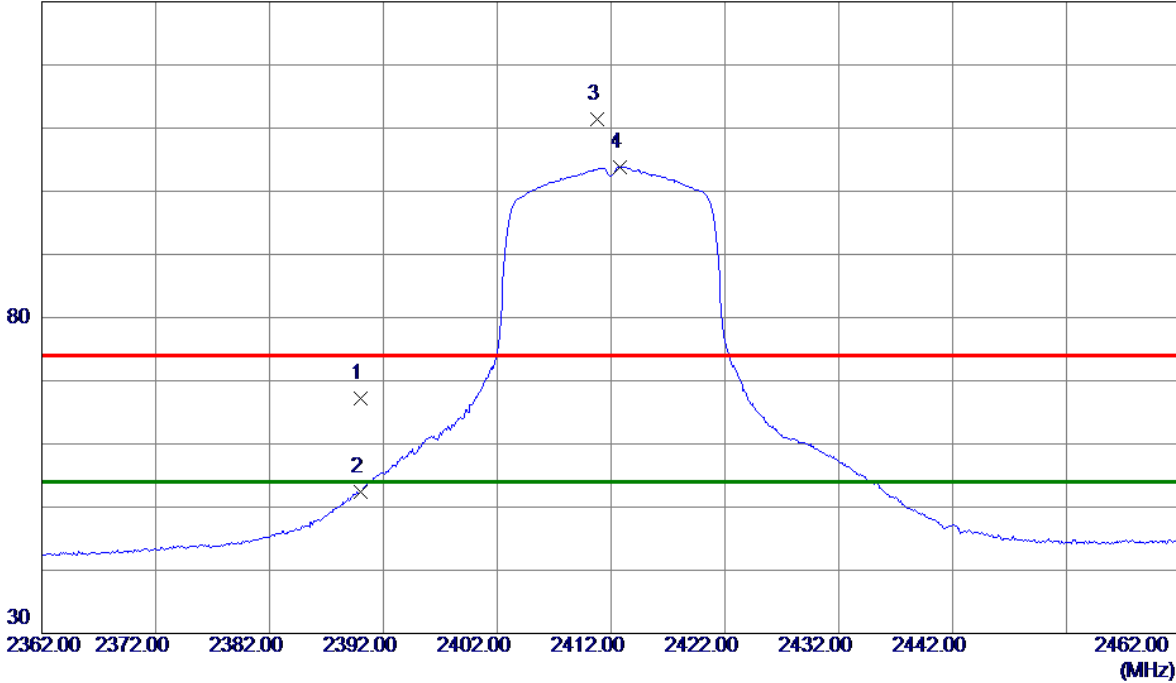
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

### Vertical

130 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	58.19	9.07	67.26	74.00	-6.74	Peak	
2	2390.0000	43.39	9.07	52.46	54.00	-1.54	AVG	
3	2410.8000	102.32	9.06	111.38	74.00	37.38	Peak	No Limit
4 *	2412.8000	94.83	9.06	103.89	54.00	49.89	AVG	No Limit

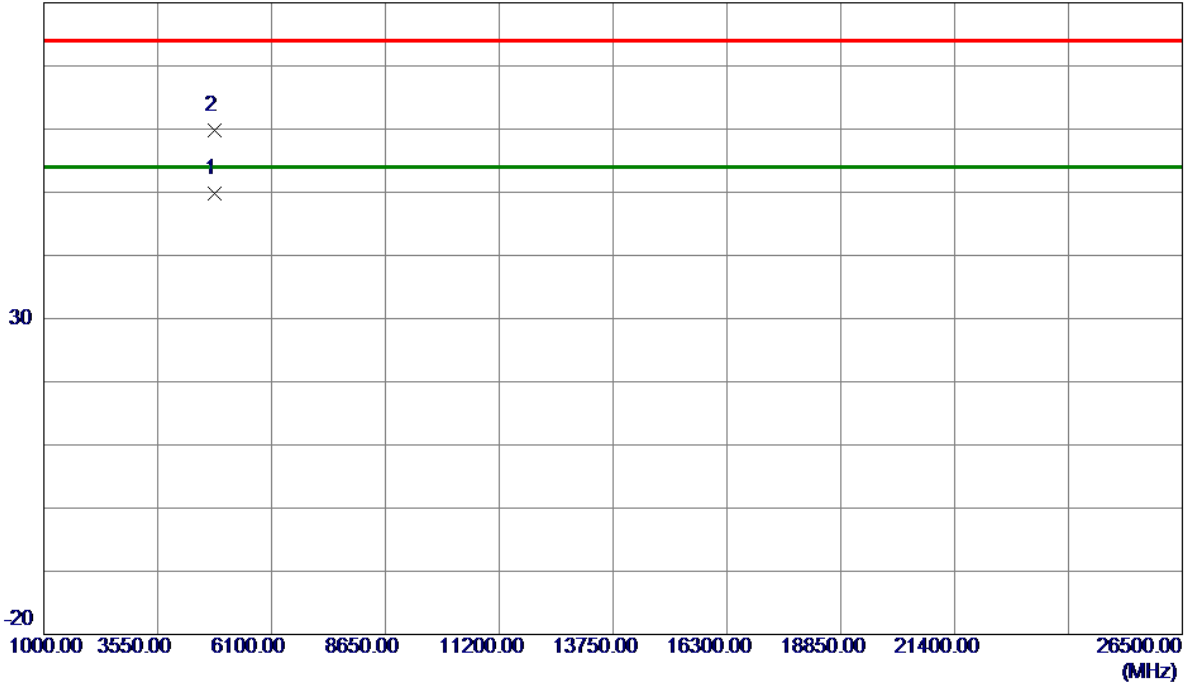
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

### 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 *	4824.3500	41.67	8.04	49.71	54.00	-4.29	AVG	
2	4829.4500	51.70	8.06	59.76	74.00	-14.24	Peak	

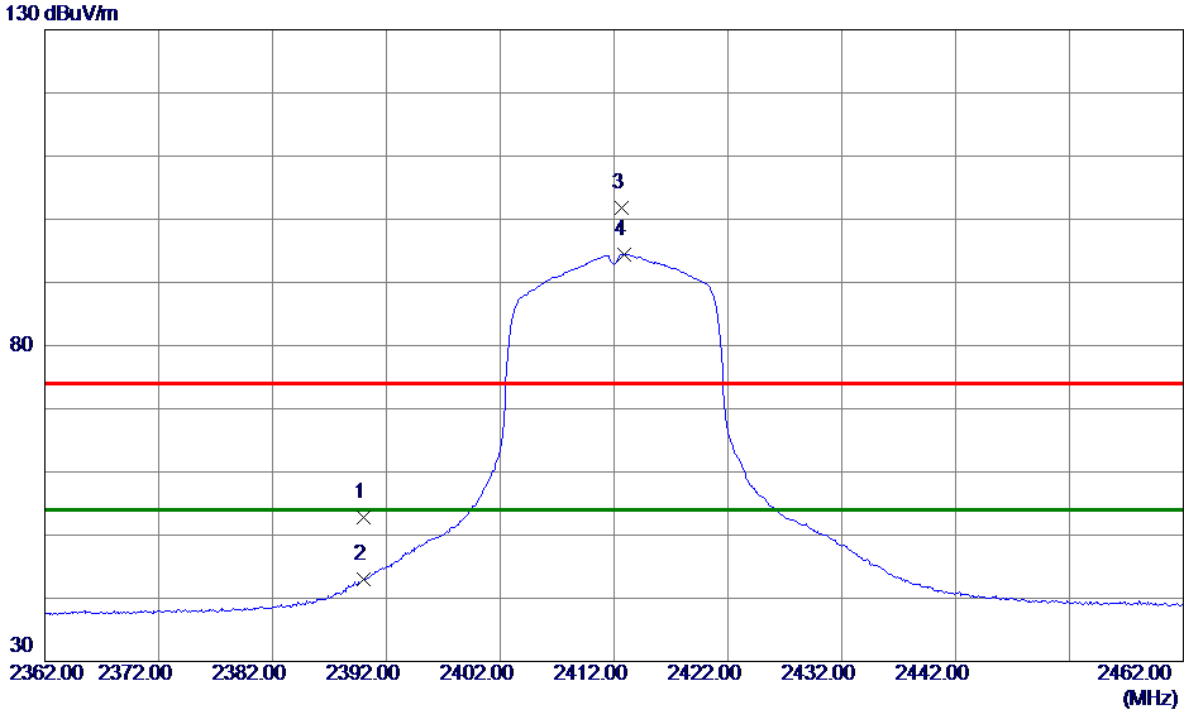
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX N-20M Mode 2412 MHz

### 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	43.79	9.07	52.86	74.00	-21.14	Peak	
2	2390.0000	33.96	9.07	43.03	54.00	-10.97	AVG	
3	2412.7000	92.70	9.06	101.76	74.00	27.76	Peak	No Limit
4 *	2412.9000	85.43	9.06	94.49	54.00	40.49	AVG	No Limit

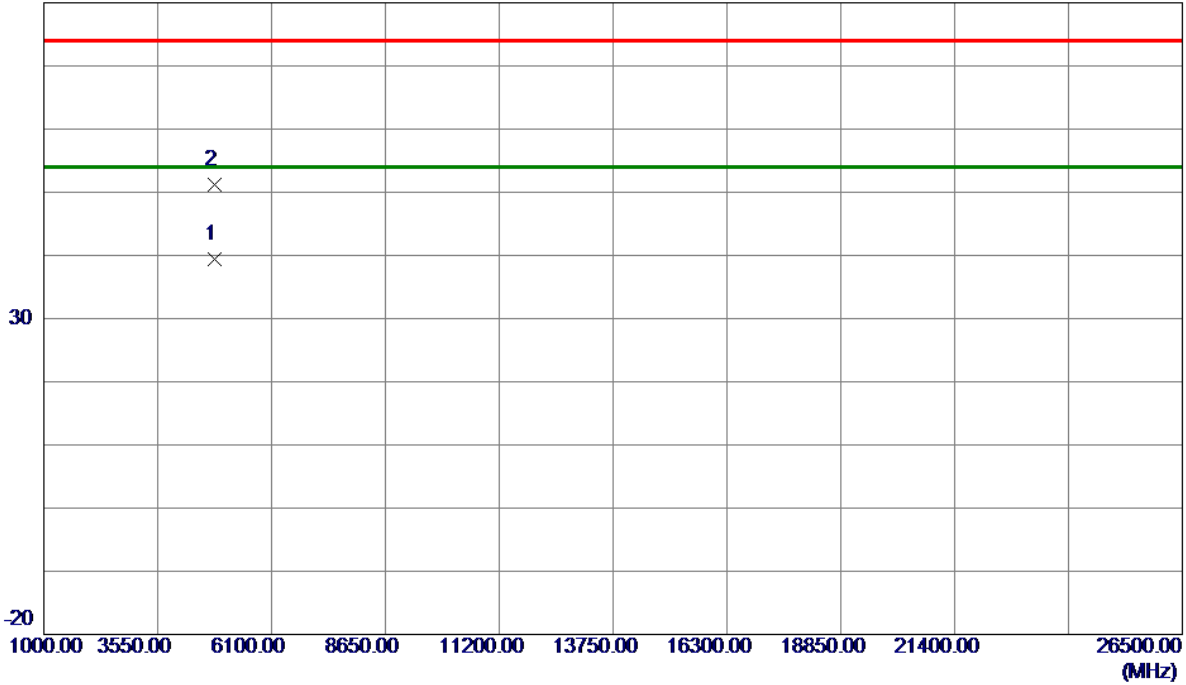
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

### Horizontal

80 dBuV/m



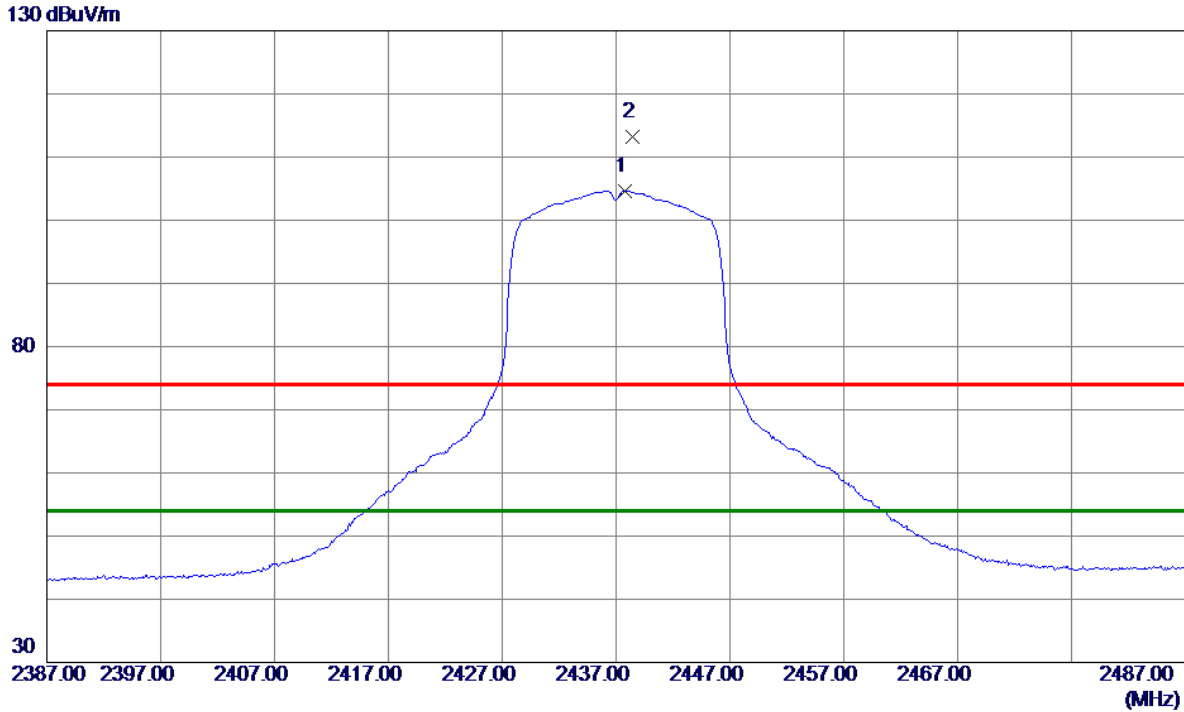
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.6400	31.29	8.04	39.33	54.00	-14.67	AVG	
2	4822.9800	43.12	8.04	51.16	74.00	-22.84	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.8000	95.62	9.04	104.66	54.00	50.66	AVG	No Limit
2	2438.4000	104.15	9.04	113.19	74.00	39.19	Peak	No Limit

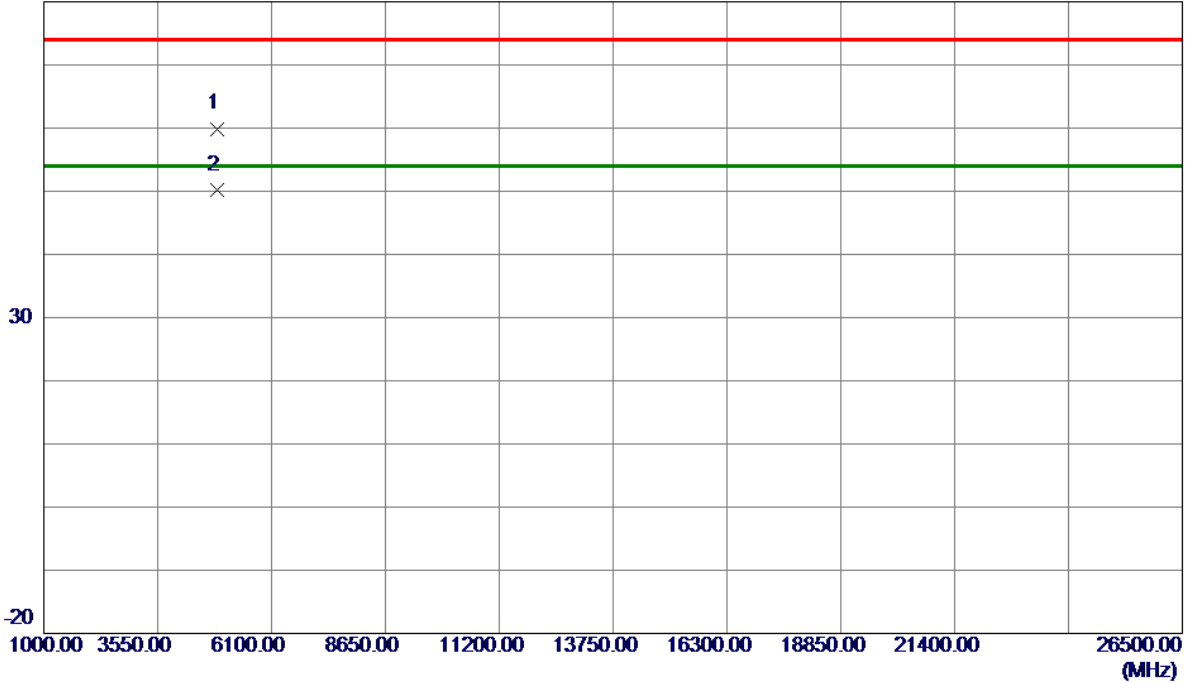
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

### Vertical

80 dBuV/m



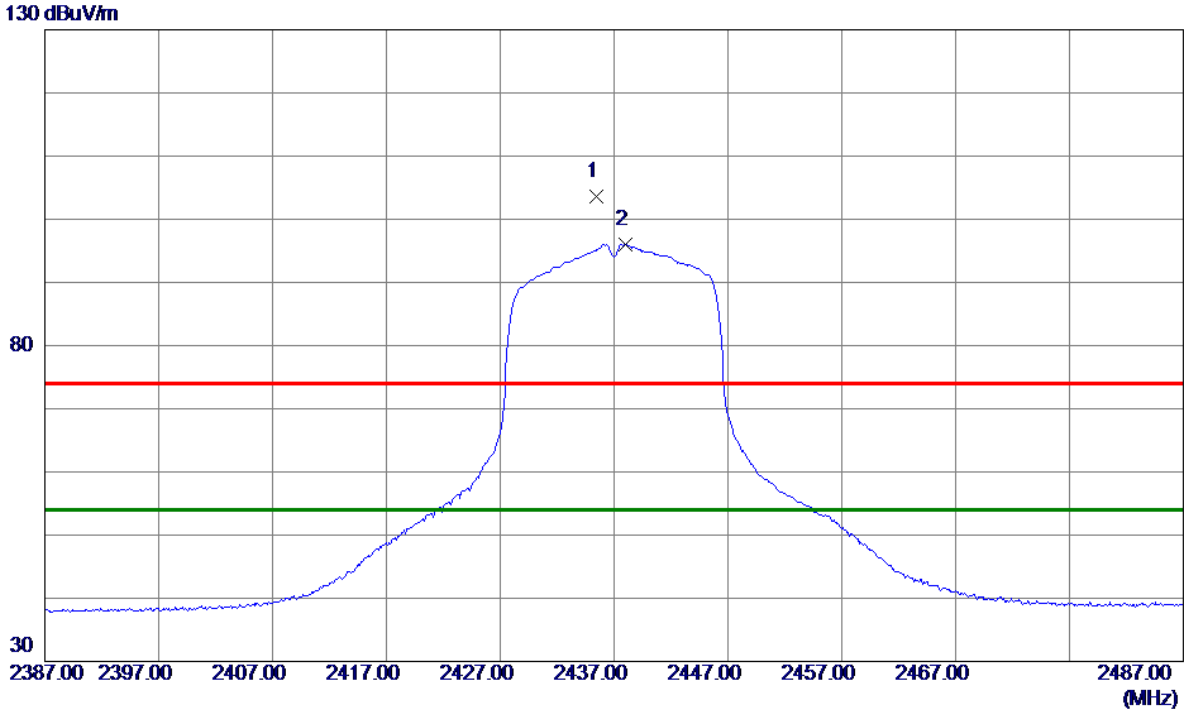
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.7000	51.70	8.20	59.90	74.00	-14.10	Peak	
2 *	4872.8000	42.03	8.20	50.23	54.00	-3.77	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.4000	94.62	9.04	103.66	74.00	29.66	Peak	No Limit
2 *	2438.0000	87.00	9.04	96.04	54.00	42.04	AVG	No Limit

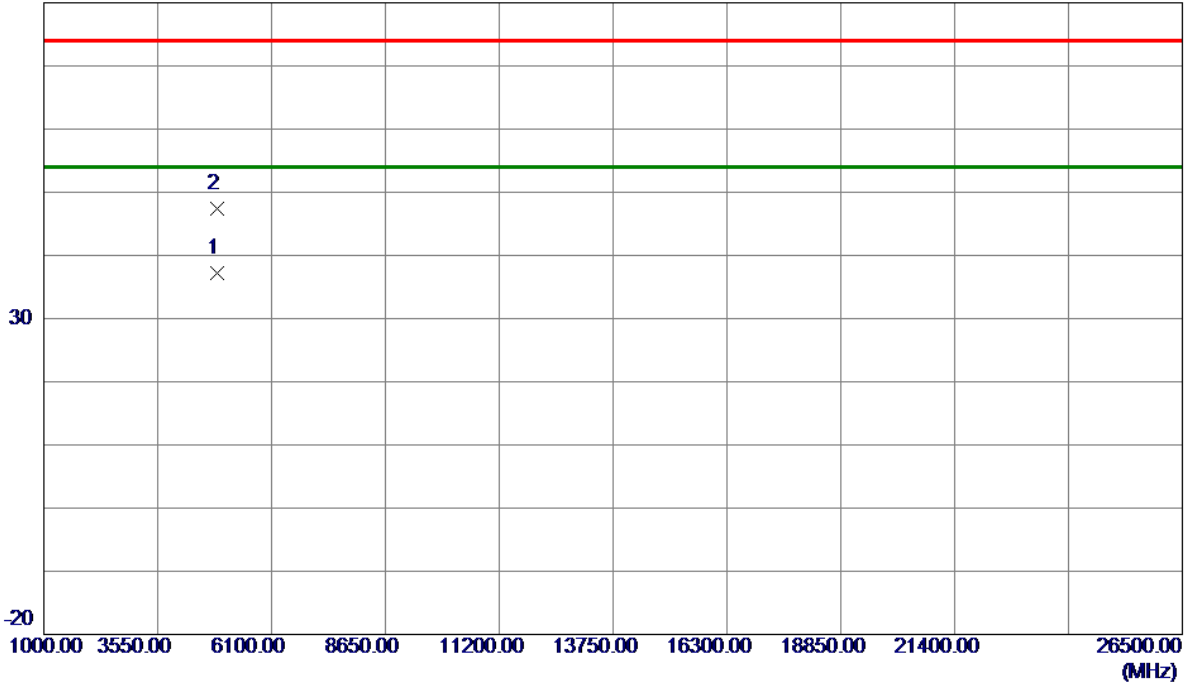
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

### 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 *	4872.5200	28.97	8.20	37.17	54.00	-16.83	AVG	
2	4876.0400	39.19	8.21	47.40	74.00	-26.60	Peak	

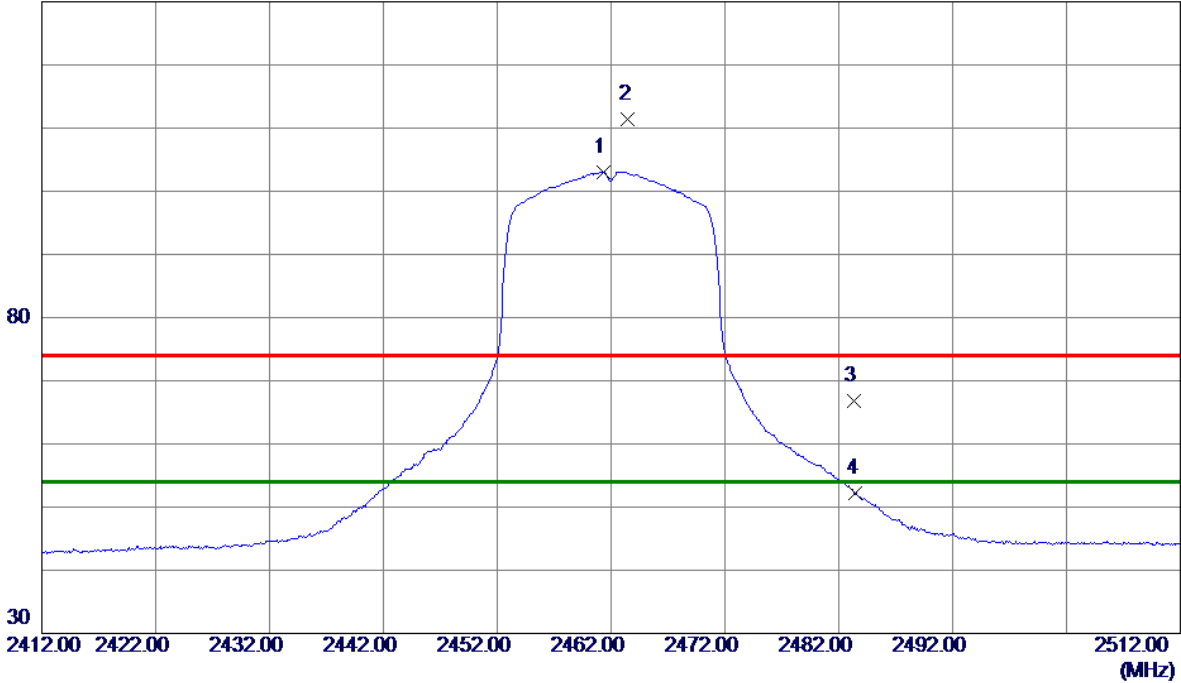
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

### Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3000	94.06	9.03	103.09	54.00	49.09	AVG	No Limit
2	2463.5000	102.35	9.03	111.38	74.00	37.38	Peak	No Limit
3	2483.3000	57.86	9.01	66.87	74.00	-7.13	Peak	
4	2483.5000	43.13	9.01	52.14	54.00	-1.86	AVG	

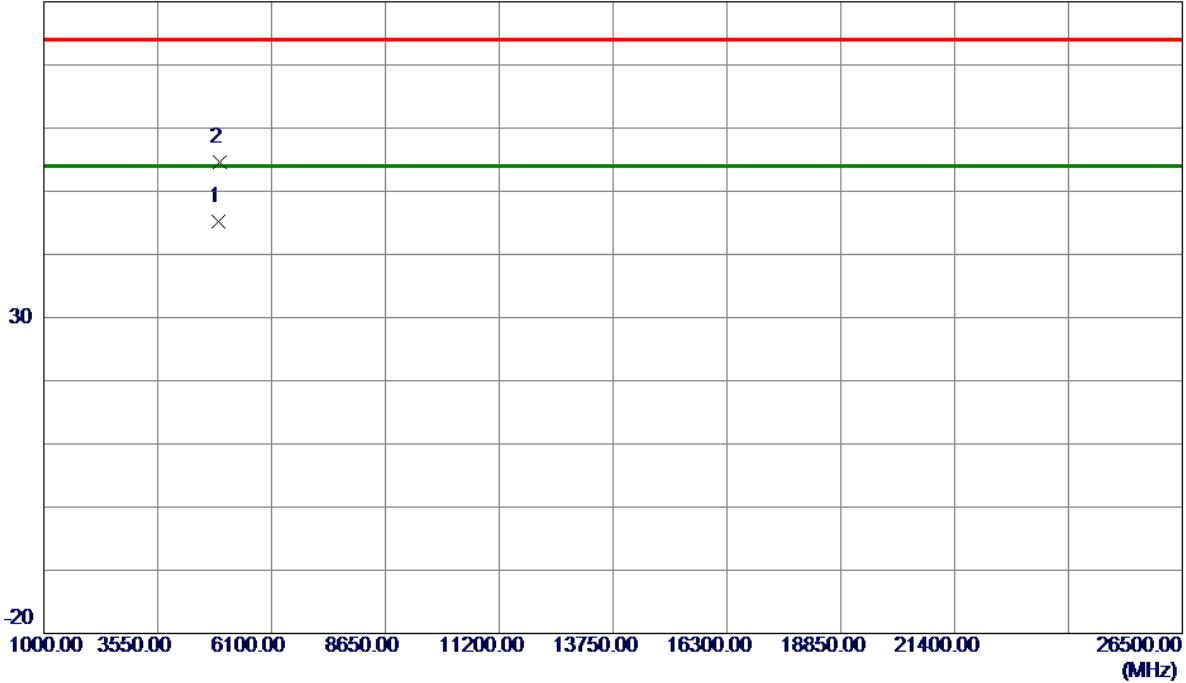
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

### 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 *	4920.3000	36.88	8.36	45.24	54.00	-8.76	AVG	
2	4927.6000	46.26	8.39	54.65	74.00	-19.35	Peak	

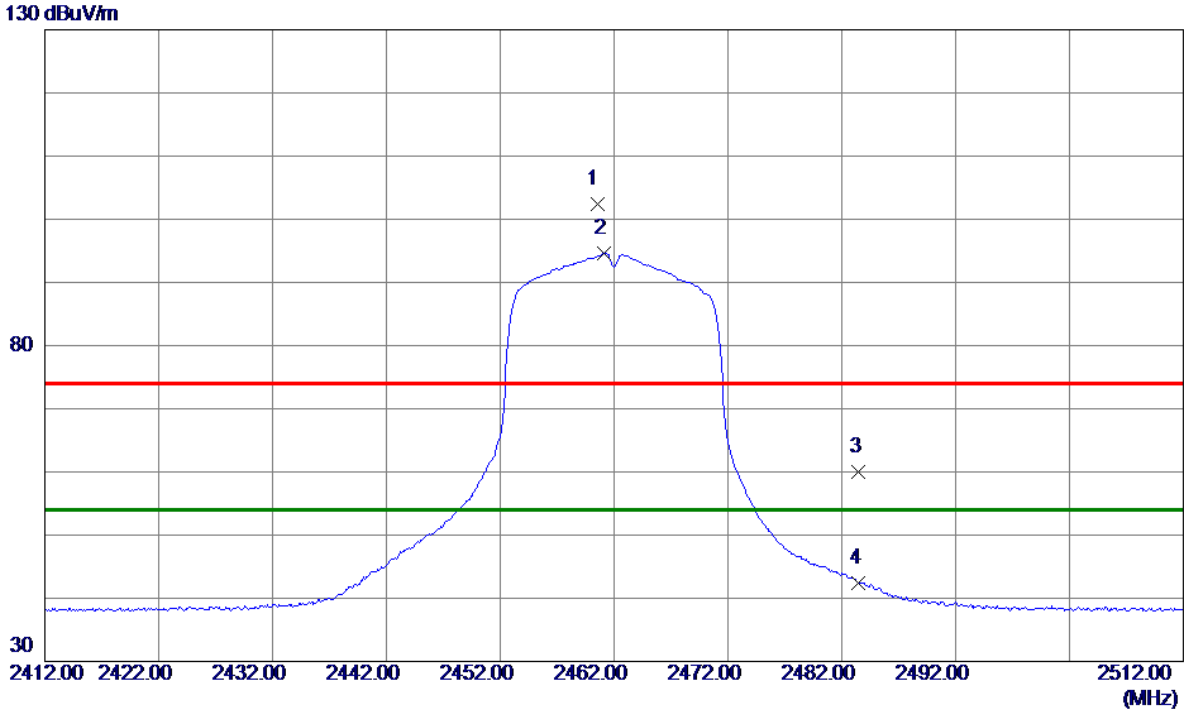
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX N-20M Mode 2462 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.5000	93.44	9.03	102.47	74.00	28.47	Peak	No Limit
2 *	2461.1000	85.64	9.03	94.67	54.00	40.67	AVG	No Limit
3	2483.5000	50.90	9.01	59.91	74.00	-14.09	Peak	
4	2483.5000	33.44	9.01	42.45	54.00	-11.55	AVG	

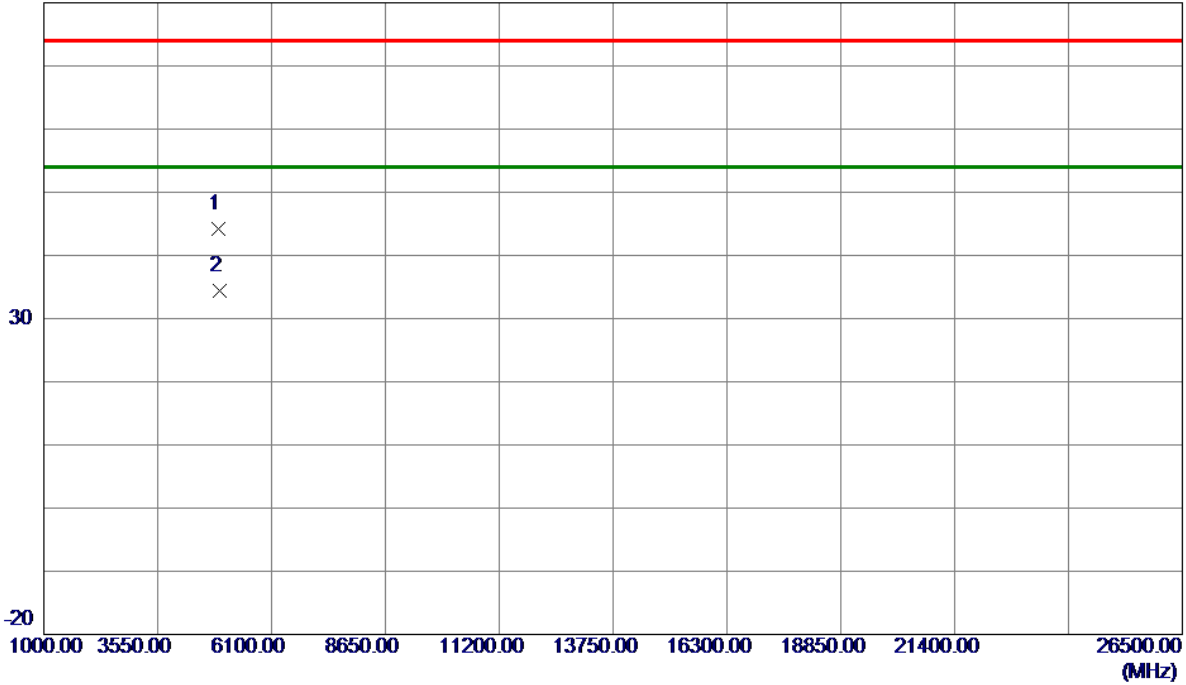
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

### 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	4921.2200	35.77	8.37	44.14	74.00	-29.86	Peak	
2 *	4926.0200	25.97	8.38	34.35	54.00	-19.65	AVG	

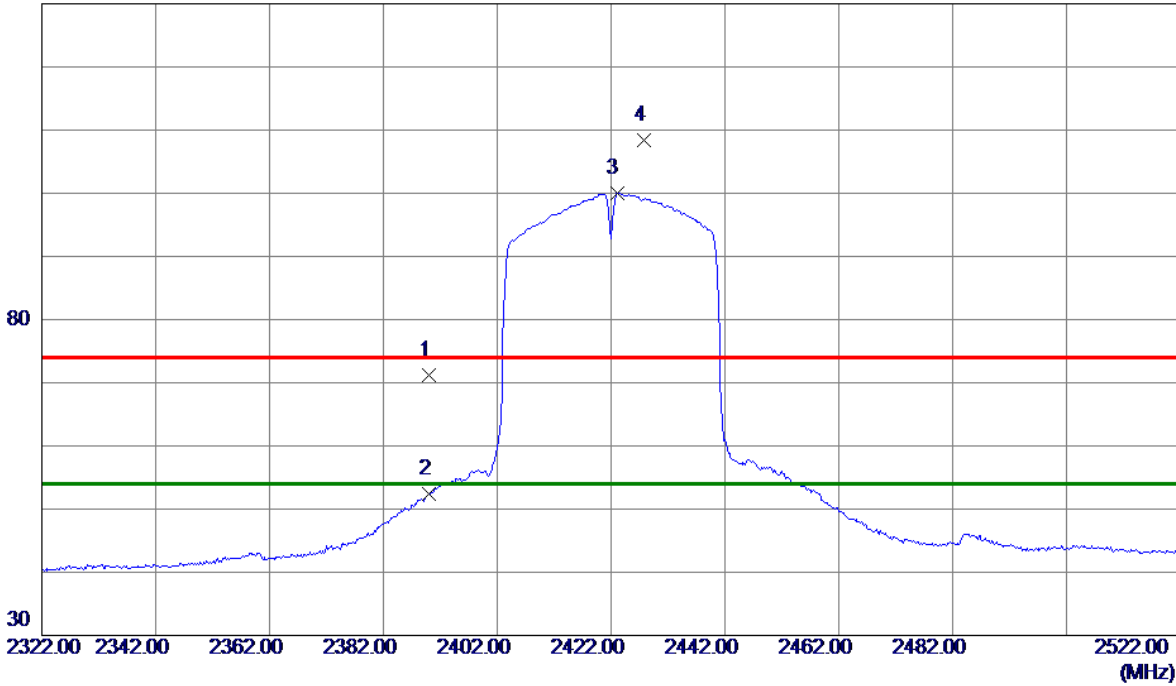
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2422MHz

### Vertical

130 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	62.13	9.07	71.20	74.00	-2.80	Peak	
2	2390.0000	43.40	9.07	52.47	54.00	-1.53	AVG	
3 *	2423.0000	90.98	9.05	100.03	54.00	46.03	AVG	No Limit
4	2427.8000	99.29	9.05	108.34	74.00	34.34	Peak	No Limit

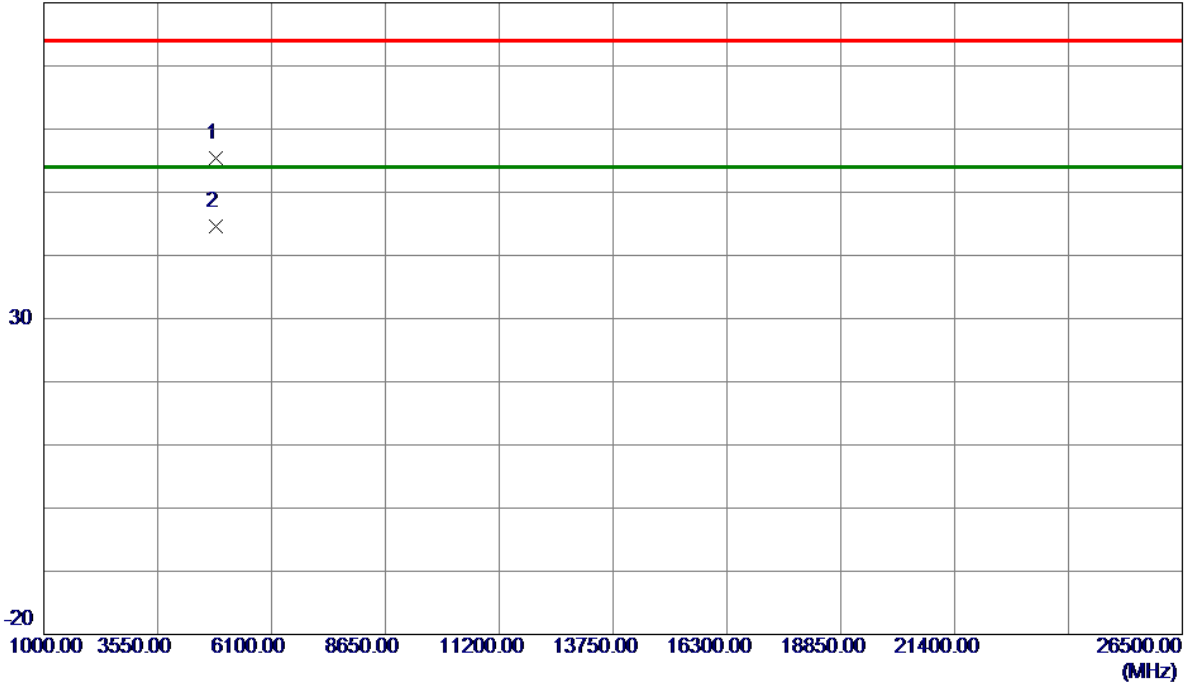
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2422MHz

### Vertical

80 dBuV/m



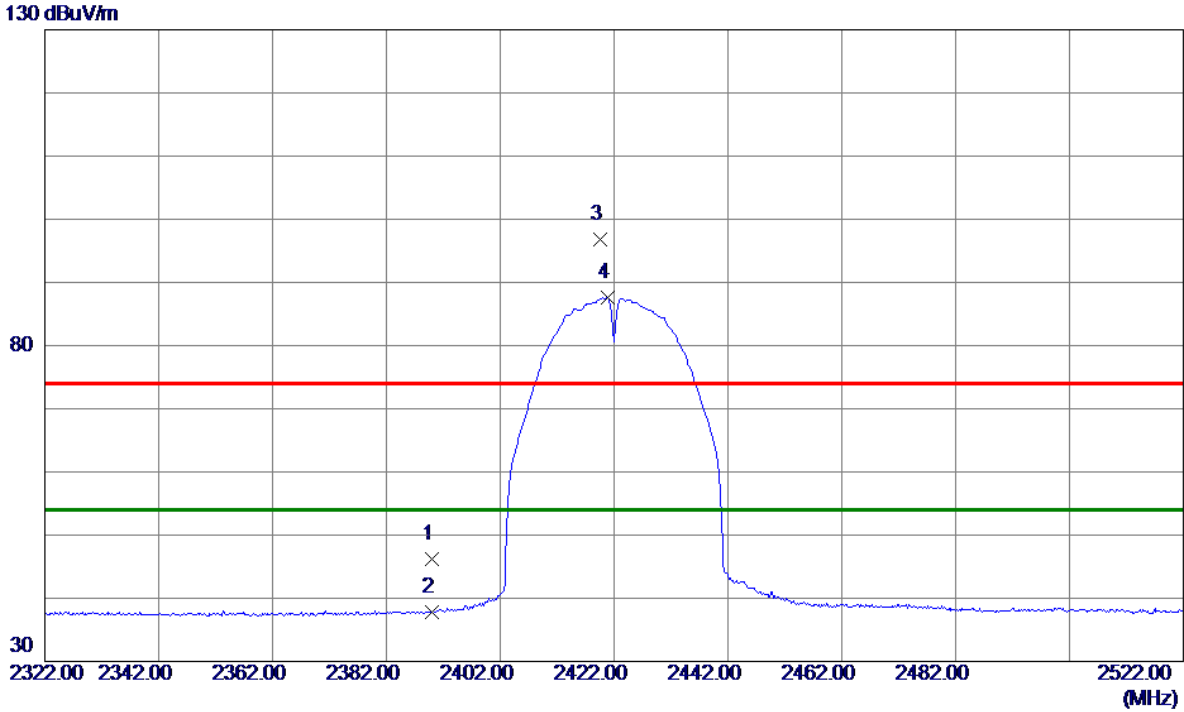
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4840.5500	47.21	8.10	55.31	74.00	-18.69	Peak	
2 *	4846.4500	36.54	8.12	44.66	54.00	-9.34	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	37.11	9.07	46.18	74.00	-27.82	Peak	
2	2390.0000	28.74	9.07	37.81	54.00	-16.19	AVG	
3	2419.6000	87.68	9.05	96.73	74.00	22.73	Peak	No Limit
4 *	2420.8000	78.58	9.05	87.63	54.00	33.63	AVG	No Limit

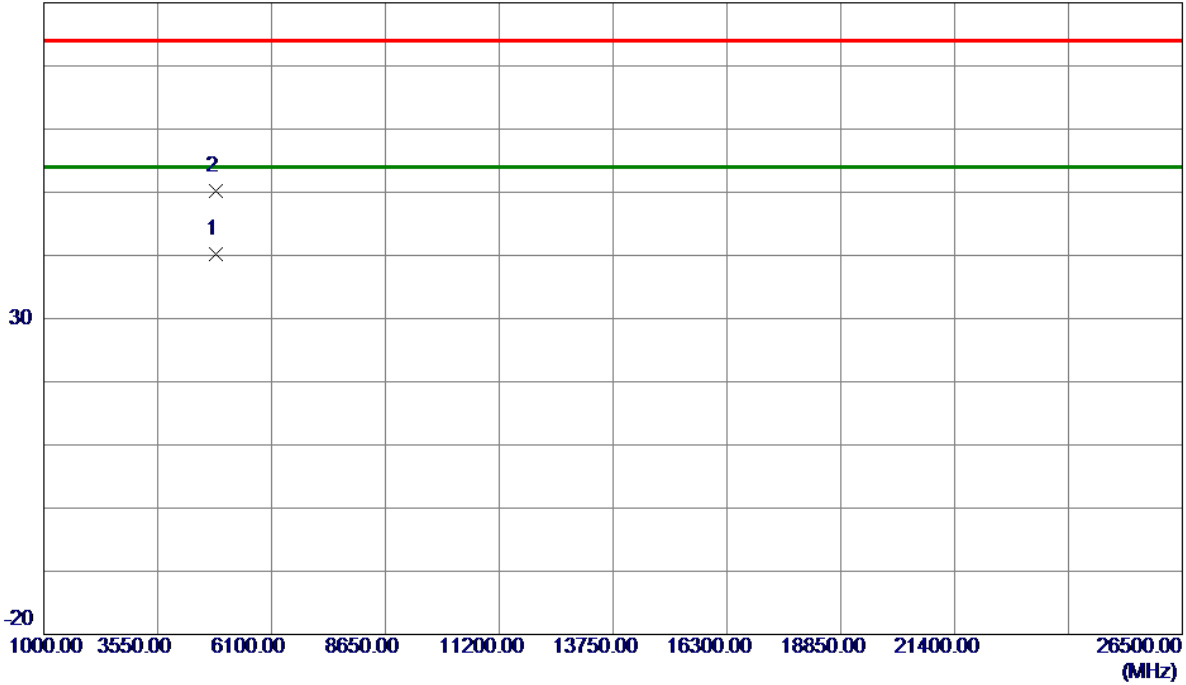
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2422MHz

### Horizontal

80 dBuV/m



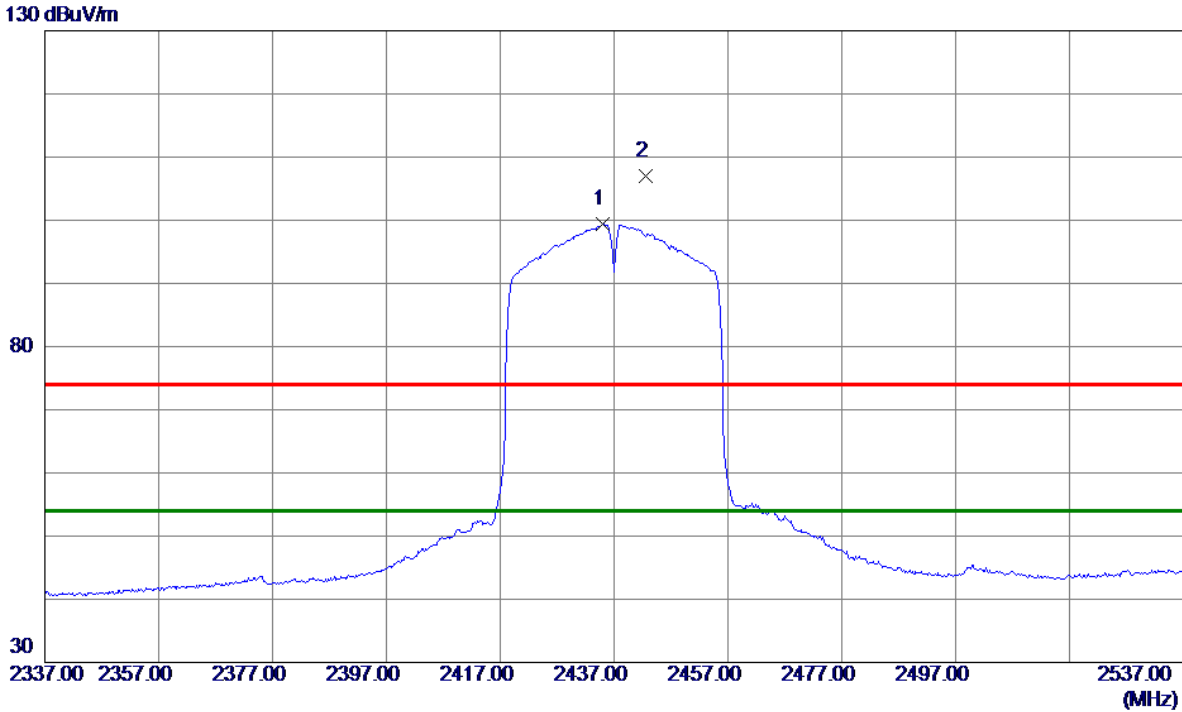
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4841.4500	32.14	8.10	40.24	54.00	-13.76	AVG	
2	4846.8500	42.14	8.12	50.26	74.00	-23.74	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2437 MHz

**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.0000	90.36	9.04	99.40	54.00	45.40	AVG	No Limit
2	2442.6000	98.06	9.04	107.10	74.00	33.10	Peak	No Limit

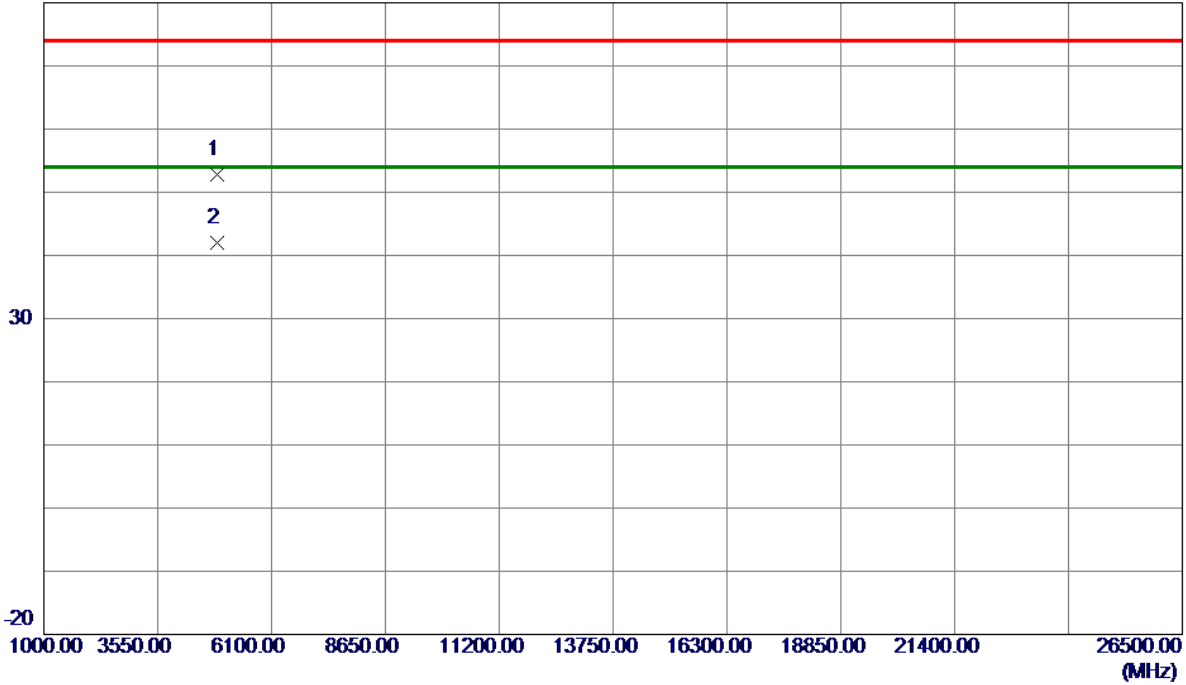
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2437 MHz

### 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	4870.8000	44.55	8.20	52.75	74.00	-21.25	Peak	
2 *	4871.0500	33.89	8.20	42.09	54.00	-11.91	AVG	

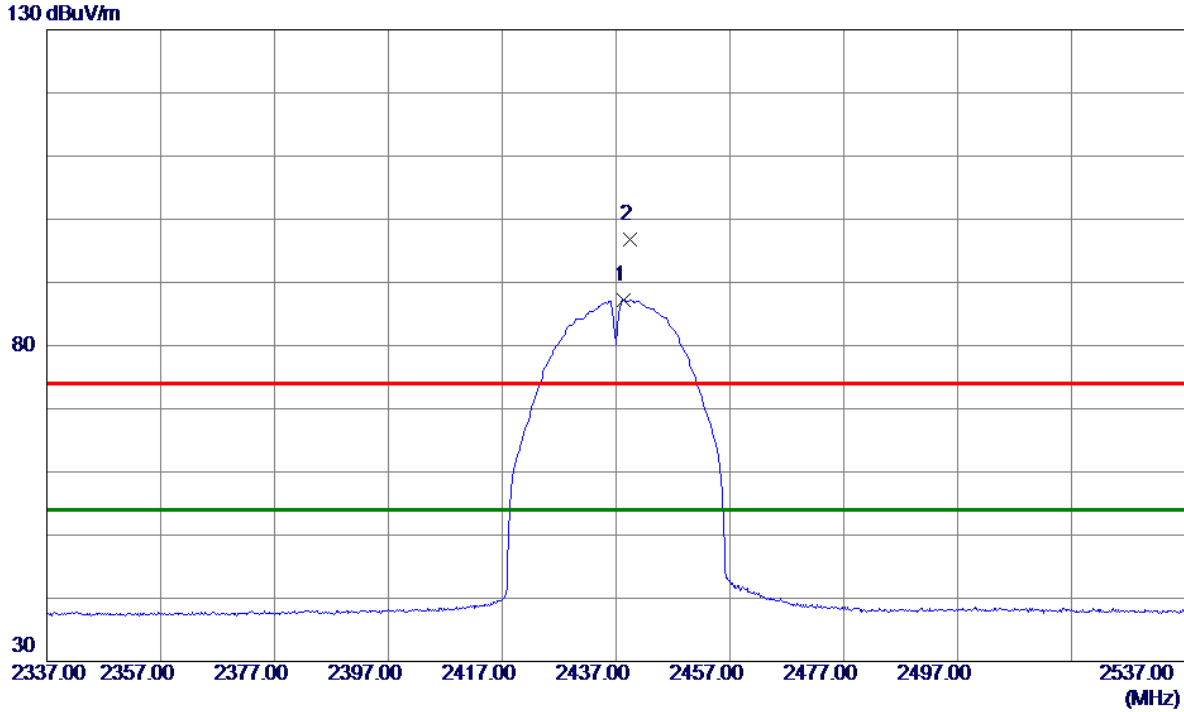
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX N-40M Mode 2437 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.4000	78.18	9.04	87.22	54.00	33.22	AVG	No Limit
2	2439.4000	87.69	9.04	96.73	74.00	22.73	Peak	No Limit

**REMARKS:**

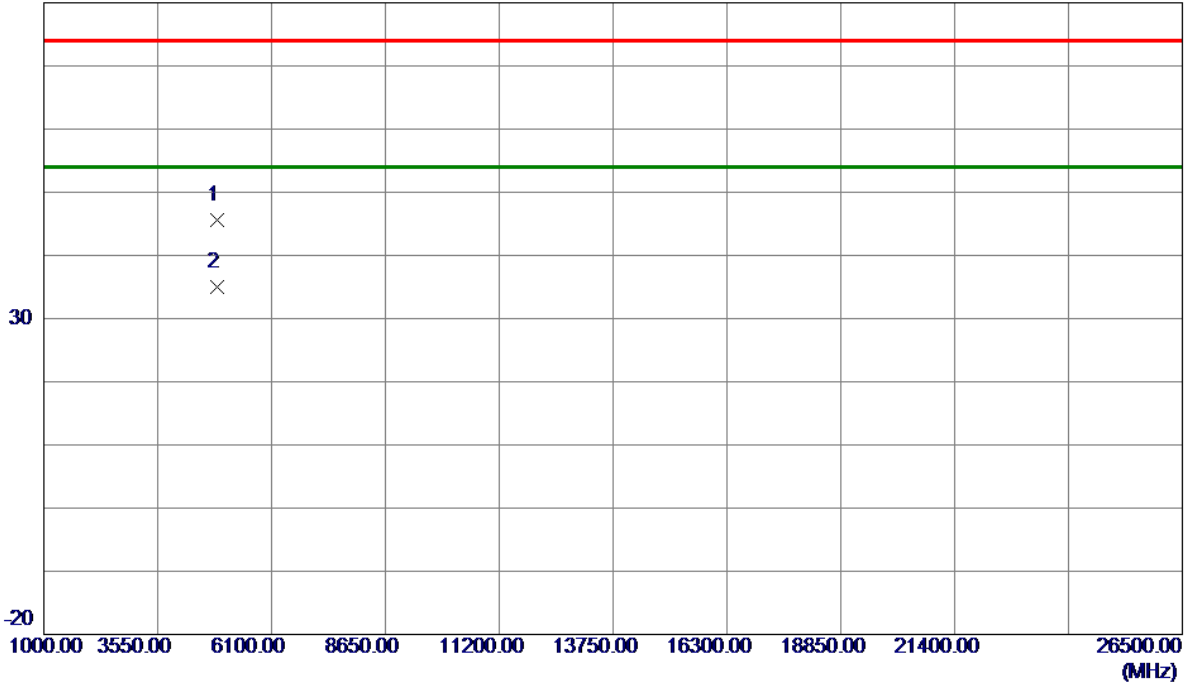
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2437 MHz

### Horizontal

80 dBuV/m



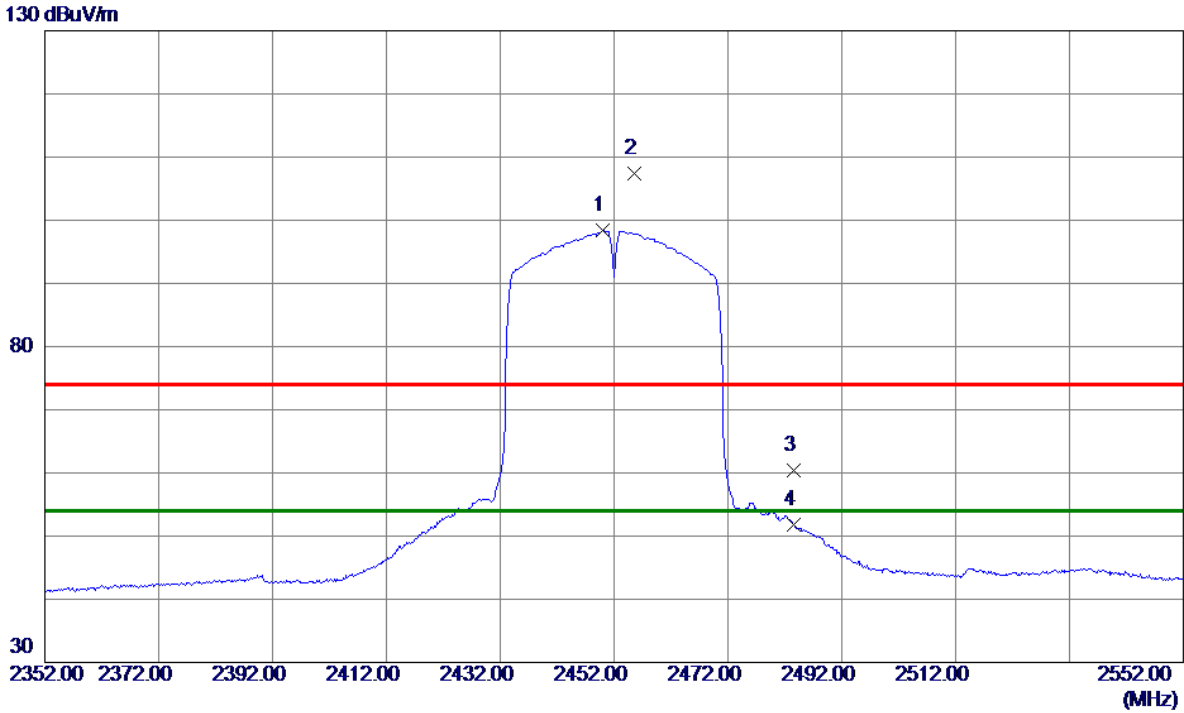
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.3800	37.35	8.20	45.55	74.00	-28.45	Peak	
2 *	4870.4200	26.89	8.20	35.09	54.00	-18.91	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2452 MHz

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2450.0000	89.32	9.03	98.35	54.00	44.35	AVG	No Limit
2	2455.6000	98.38	9.03	107.41	74.00	33.41	Peak	No Limit
3	2483.5000	51.31	9.01	60.32	74.00	-13.68	Peak	
4	2483.5000	42.86	9.01	51.87	54.00	-2.13	AVG	

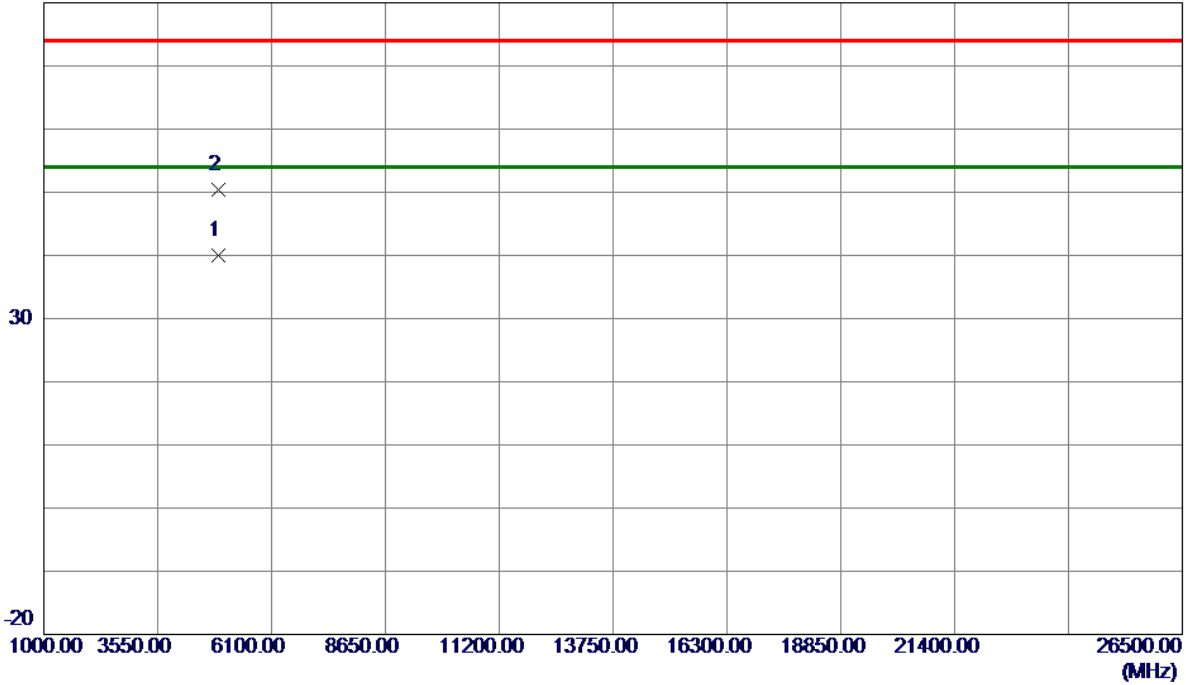
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2452 MHz

### Vertical

80 dBuV/m



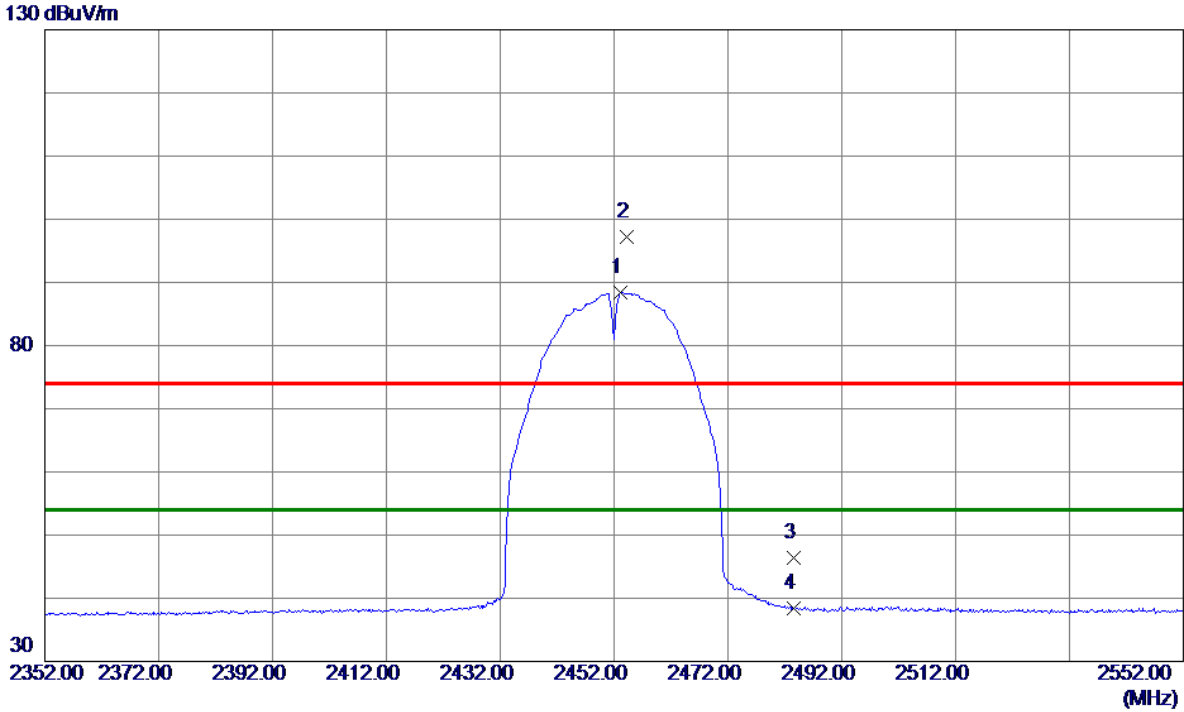
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4901.3000	31.67	8.30	39.97	54.00	-14.03	AVG	
2	4903.1000	42.08	8.31	50.39	74.00	-23.61	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2452 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2453.2000	79.32	9.03	88.35	54.00	34.35	AVG	No Limit
2	2454.2000	88.15	9.03	97.18	74.00	23.18	Peak	No Limit
3	2483.5000	37.48	9.01	46.49	74.00	-27.51	Peak	
4	2483.5000	29.37	9.01	38.38	54.00	-15.62	AVG	

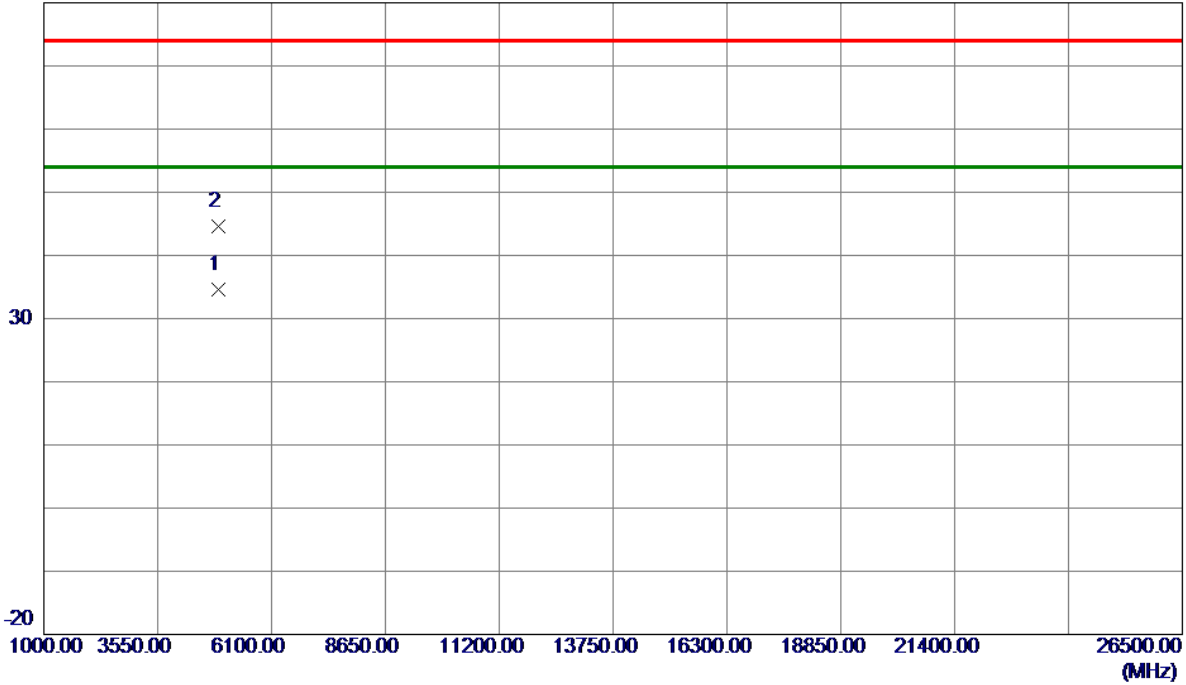
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-40M Mode 2452 MHz

### 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 *	4900.6900	26.30	8.30	34.60	54.00	-19.40	AVG	
2	4903.2500	36.37	8.31	44.68	74.00	-29.32	Peak	

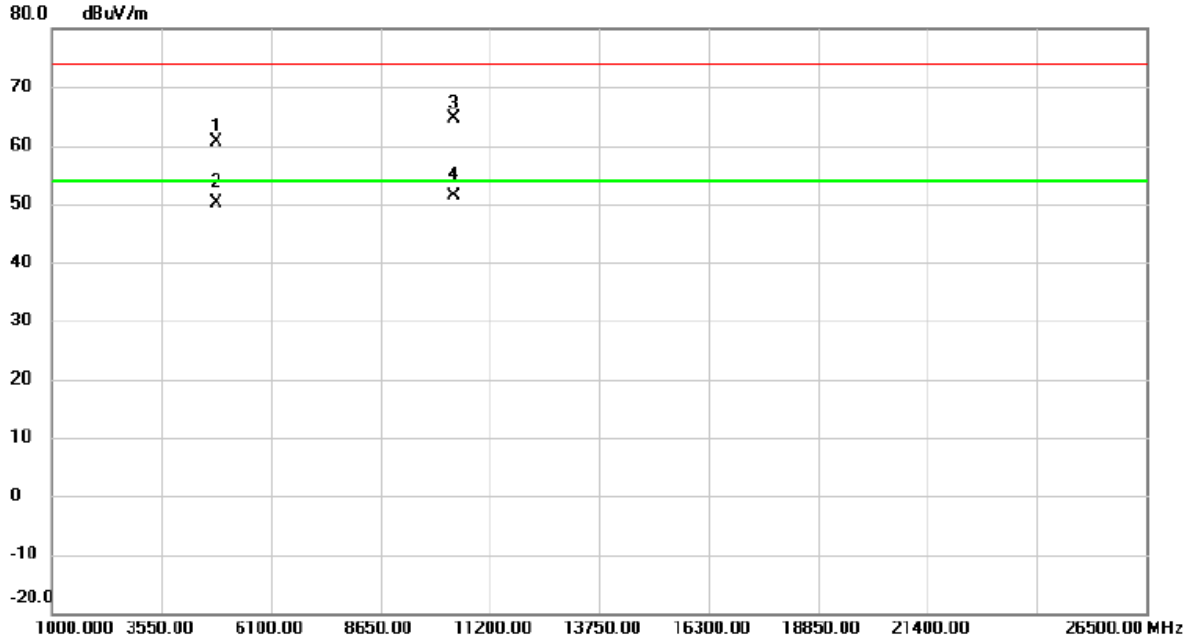
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

The worst case of simultaneous transmission:

Test Mode: TX G Mode 2412+AC 40 Mode 5190MHz

### Vertical



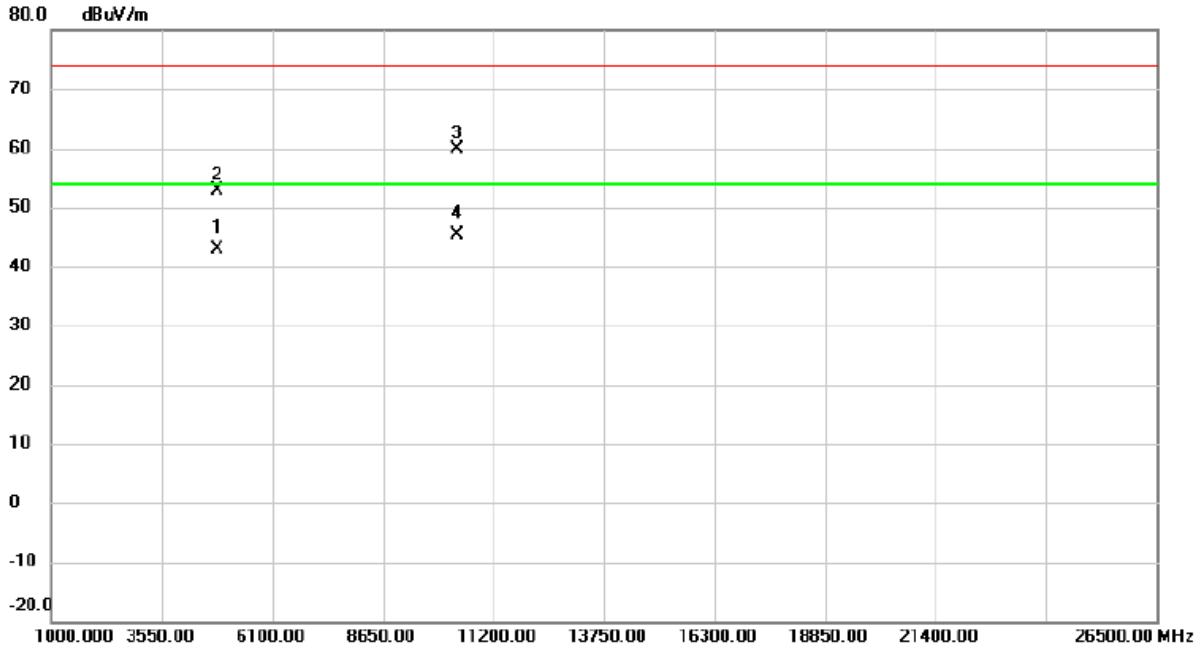
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.138	52.58	8.04	60.62	74.00	-13.38	peak	
2		4824.215	42.17	8.04	50.21	54.00	-3.79	AVG	
3		10381.340	44.59	20.02	64.61	74.00	-9.39	peak	
4	*	10380.000	31.25	20.02	51.27	54.00	-2.73	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412+AC 40 Mode 5190MHz

### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4823.865	34.75	8.04	42.79	54.00	-11.21	AVG	
2		4824.115	44.89	8.04	52.93	74.00	-21.07	peak	
3		10381.663	39.98	20.02	60.00	74.00	-14.00	peak	
4	*	10382.124	25.46	20.03	45.49	54.00	-8.51	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

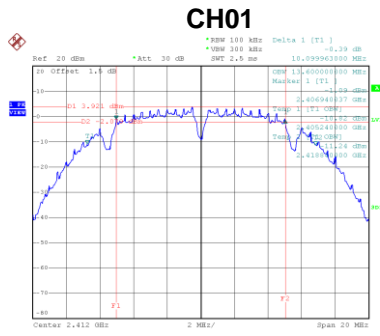


## APPENDIX E - BANDWIDTH

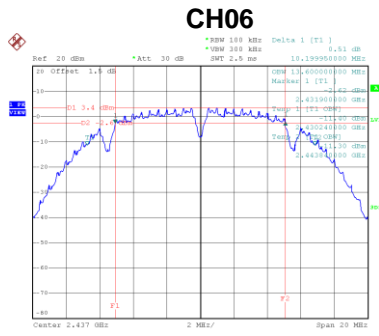
## Non-Beamforming

Test Mode	TX B Mode_Ant. 1
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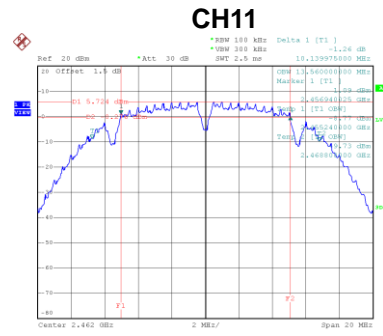
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	10.10	500	Complies
06	2437	10.20	500	Complies
11	2462	10.14	500	Complies



Date: 6.JAN.2020 09:10:37

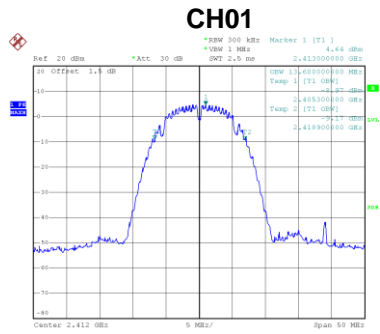


Date: 6.JAN.2020 09:18:10

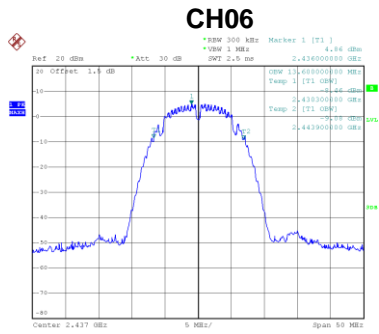


Date: 6.JAN.2020 09:21:04

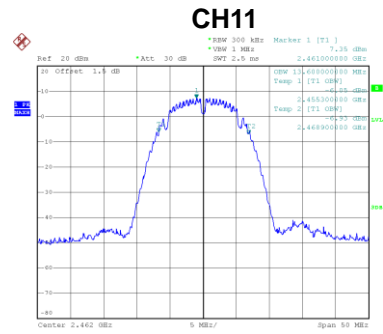
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	13.60	Complies
06	2437	13.60	Complies
11	2462	13.60	Complies



Date: 6.JAN.2020 09:16:39



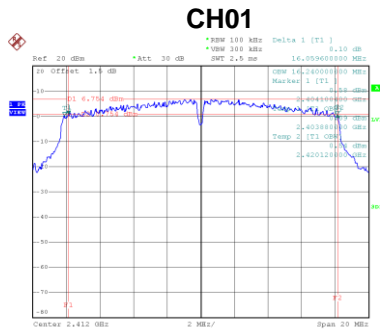
Date: 6.JAN.2020 09:19:30



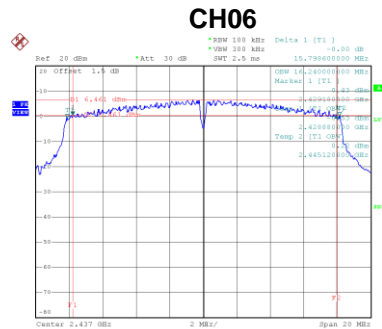
Date: 6.JAN.2020 09:22:14

Test Mode	TX G Mode_Ant. 1
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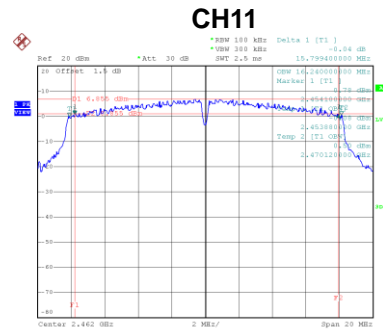
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.06	500	Complies
06	2437	15.80	500	Complies
11	2462	15.80	500	Complies



Date: 6.JAN.2020 09:12:45

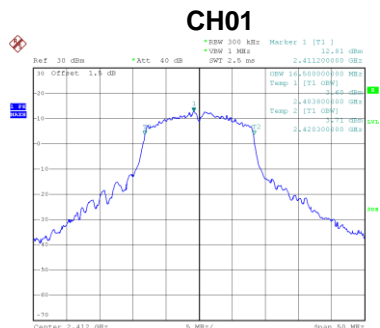


Date: 6.JAN.2020 09:13:12

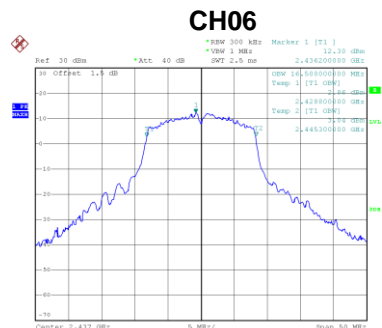


Date: 6.JAN.2020 09:13:06

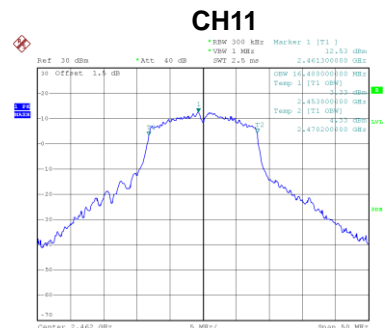
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.50	Complies
06	2437	16.50	Complies
11	2462	16.50	Complies



Date: 6.JAN.2020 09:12:49



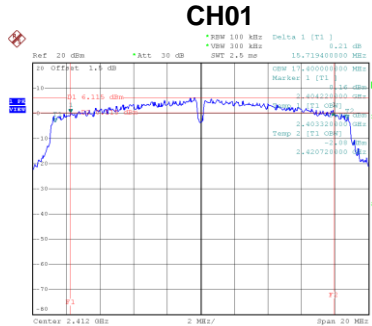
Date: 6.JAN.2020 09:13:14



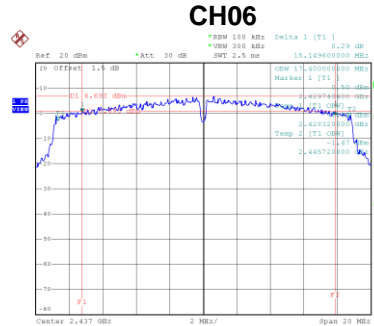
Date: 6.JAN.2020 09:13:40

Test Mode	TX N-20M Mode_Ant. 1
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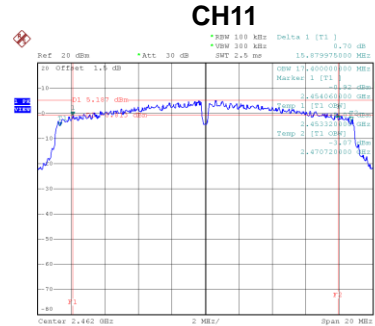
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.72	500	Complies
06	2437	15.15	500	Complies
11	2462	15.88	500	Complies



Date: 6.JAN.2020 09:13:00

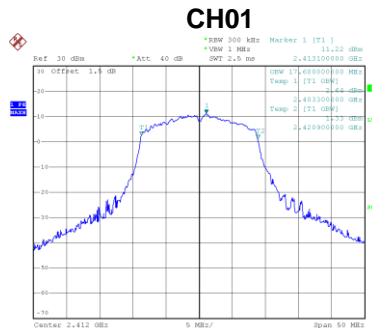


Date: 6.JAN.2020 09:13:45

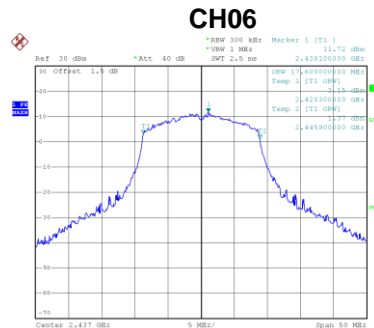


Date: 6.JAN.2020 09:42:04

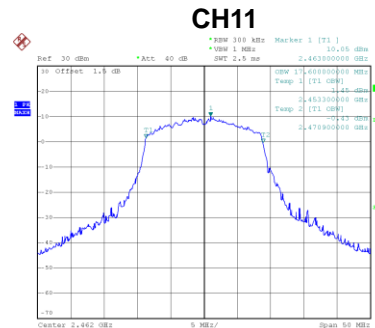
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.60	Complies
06	2437	17.60	Complies
11	2462	17.60	Complies



Date: 6.JAN.2020 09:13:17



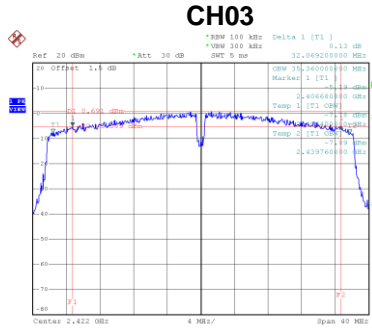
Date: 6.JAN.2020 09:40:54



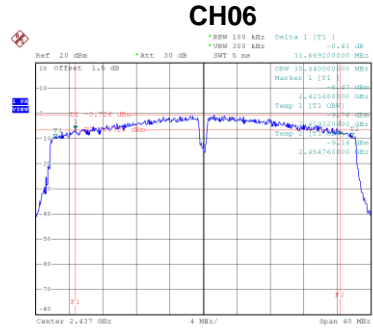
Date: 6.JAN.2020 09:43:16

Test Mode	TX N-40M Mode_Ant. 1
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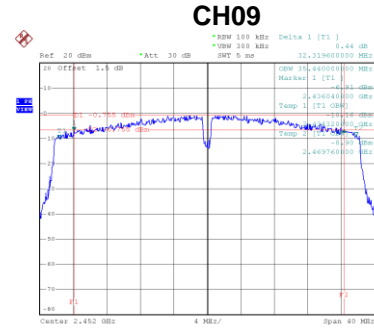
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	32.07	500	Complies
06	2437	31.67	500	Complies
09	2452	32.32	500	Complies



Date: 6.JAN.2020 09:44:55

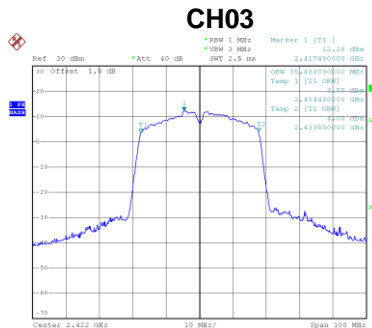


Date: 6.JAN.2020 09:48:14

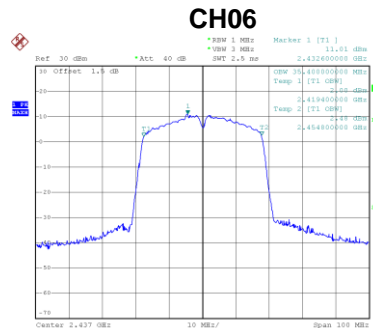


Date: 6.JAN.2020 09:51:01

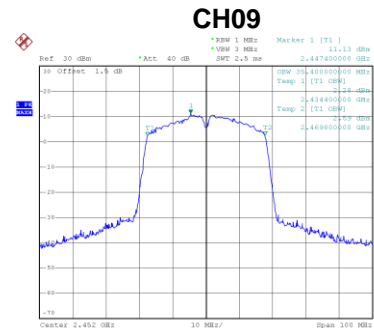
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	35.40	Complies
06	2437	35.40	Complies
09	2452	35.40	Complies



Date: 6.JAN.2020 09:46:46



Date: 6.JAN.2020 09:49:32



Date: 6.JAN.2020 09:52:31

## **APPENDIX F - MAXIMUM OUTPUT POWER**

**Non-Beamforming**

Test Mode	TX B Mode
-----------	-----------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.95	30.00	1.0000	Complies
06	2437	18.55	30.00	1.0000	Complies
11	2462	20.91	30.00	1.0000	Complies

Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	29.34	30.00	1.0000	Complies
06	2437	29.09	30.00	1.0000	Complies
11	2462	29.29	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 1
-----------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.77	30	1.0000	Complies
06	2437	24.74	30	1.0000	Complies
11	2462	24.85	30	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 2
-----------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.89	30	1.0000	Complies
06	2437	24.88	30	1.0000	Complies
11	2462	24.93	30	1.0000	Complies

Test Mode	TX N-20M Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.84	27.99	0.6295	Complies
06	2437	27.82	27.99	0.6295	Complies
11	2462	27.90	27.99	0.6295	Complies



Test Mode	TX N-40M Mode_Ant. 1
-----------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.78	30	1.0000	Complies
06	2437	24.89	30	1.0000	Complies
09	2452	24.87	30	1.0000	Complies

Test Mode	TX N-40M Mode_Ant. 2
-----------	----------------------

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.86	30	1.0000	Complies
06	2437	24.96	30	1.0000	Complies
09	2452	24.93	30	1.0000	Complies

Test Mode	TX N-40M Mode_Total
-----------	---------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	27.83	27.99	0.6295	Complies
06	2437	27.94	27.99	0.6295	Complies
09	2452	27.91	27.99	0.6295	Complies

### Beamforming

<b>Test Mode</b>	TX N-20M Mode_Ant. 1
------------------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.29	30	1.0000	Complies
06	2437	24.22	30	1.0000	Complies
11	2462	24.54	30	1.0000	Complies

<b>Test Mode</b>	TX N-20M Mode_Ant. 2
------------------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.08	30	1.0000	Complies
06	2437	25.38	30	1.0000	Complies
11	2462	25.08	30	1.0000	Complies

<b>Test Mode</b>	TX N-20M Mode_Total
------------------	---------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.71	28.00	0.6310	Complies
06	2437	27.85	28.00	0.6310	Complies
11	2462	27.83	28.00	0.6310	Complies

Test Mode	TX N-40M Mode_Ant. 1
-----------	----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.91	30	1.0000	Complies
06	2437	24.65	30	1.0000	Complies
09	2452	24.68	30	1.0000	Complies

Test Mode	TX N-40M Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.57	30	1.0000	Complies
06	2437	24.51	30	1.0000	Complies
09	2452	24.76	30	1.0000	Complies

Test Mode	TX N-40M Mode_Total
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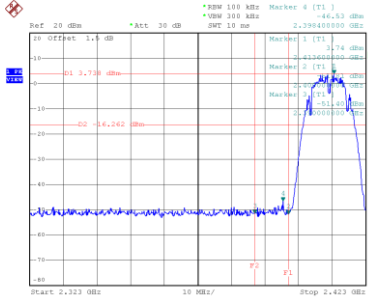
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	27.75	28.00	0.6310	Complies
06	2437	27.59	28.00	0.6310	Complies
09	2452	27.73	28.00	0.6310	Complies

## **APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

## Non-Beamforming

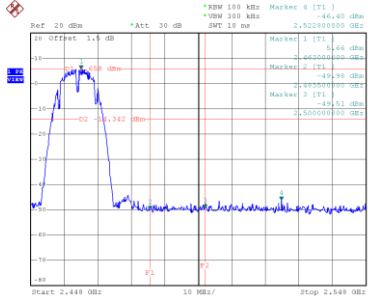
Test Mode TX B Mode

### Bandedge-CH01



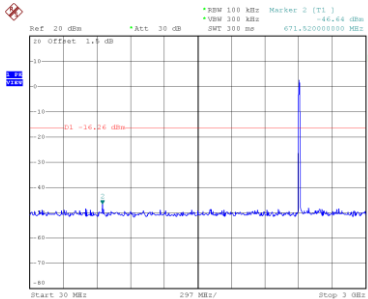
Date: 6.JAN.2020 09:08:46

### Bandedge-CH11

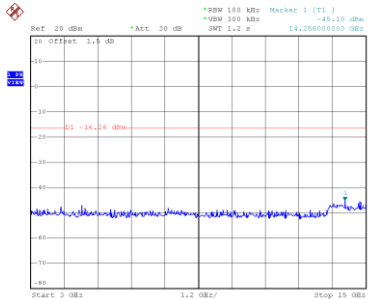


Date: 6.JAN.2020 09:21:13

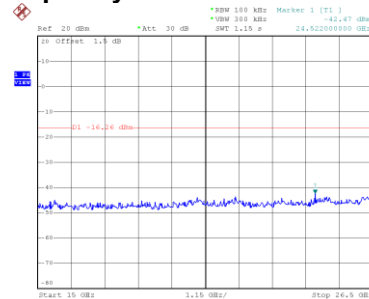
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:09:00

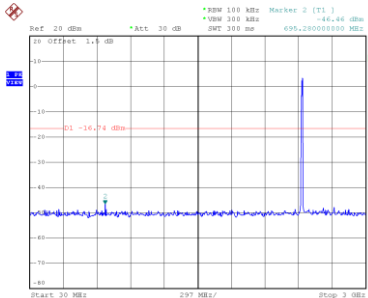


Date: 6.JAN.2020 09:09:06

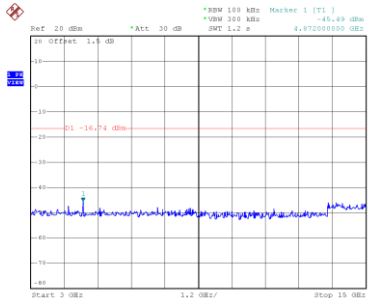


Date: 6.JAN.2020 09:09:17

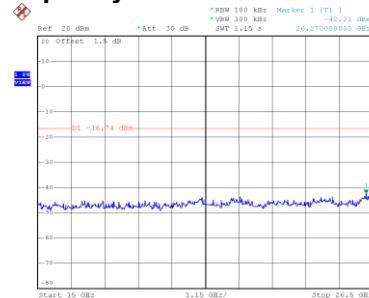
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:18:41

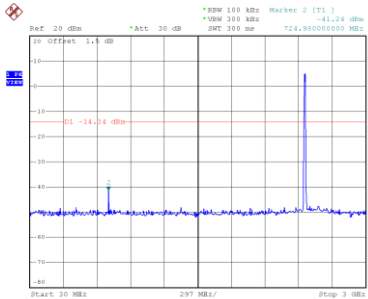


Date: 6.JAN.2020 09:18:51

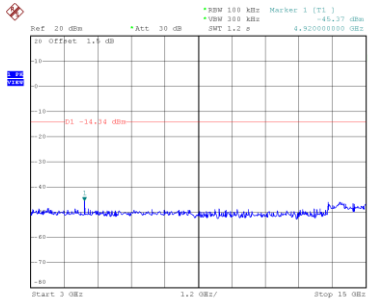


Date: 6.JAN.2020 09:19:00

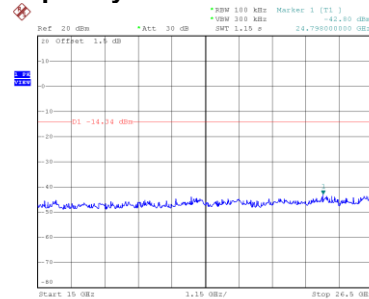
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:21:28



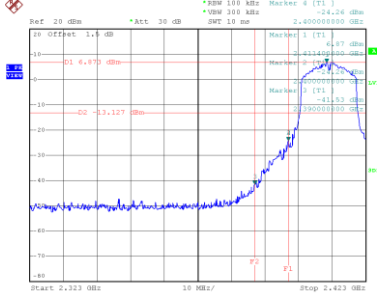
Date: 6.JAN.2020 09:21:37



Date: 6.JAN.2020 09:21:46

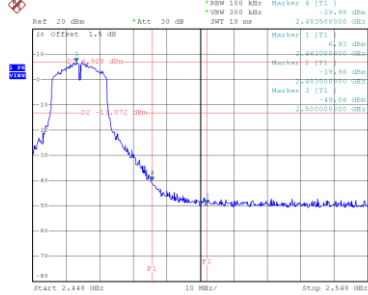
Test Mode TX G Mode

### Bandedge-CH01



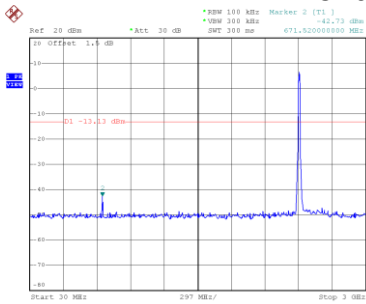
Date: 6.JAN.2020 09:24:54

### Bandedge-CH11

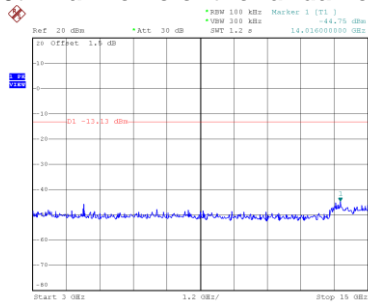


Date: 6.JAN.2020 09:33:32

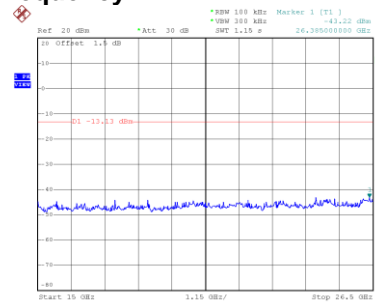
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:25:09

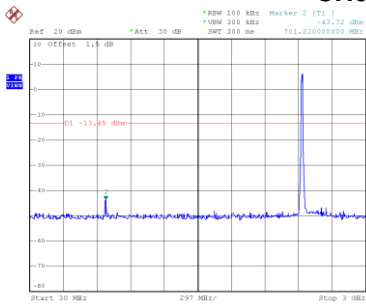


Date: 6.JAN.2020 09:25:18

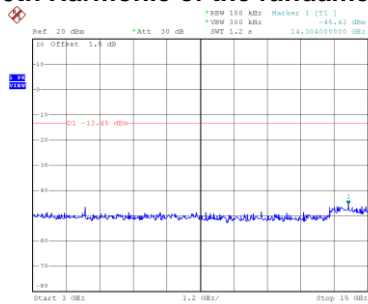


Date: 6.JAN.2020 09:25:28

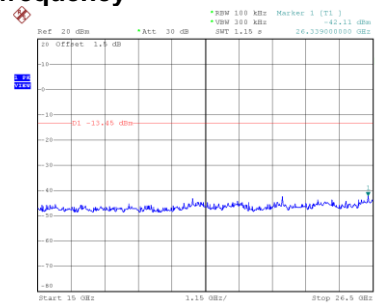
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:30:36

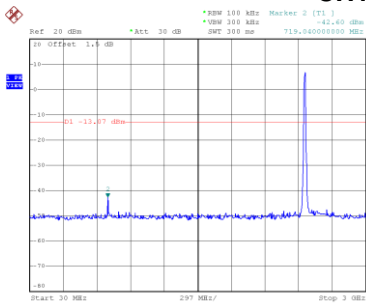


Date: 6.JAN.2020 09:30:45

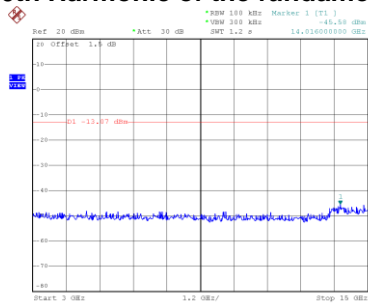


Date: 6.JAN.2020 09:30:55

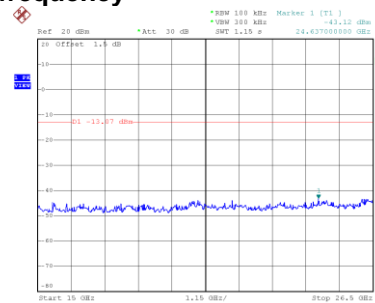
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:33:47



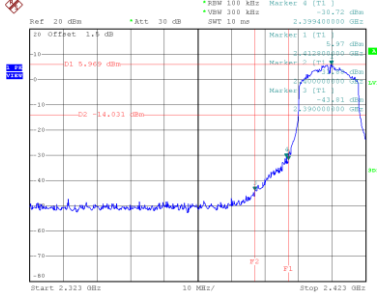
Date: 6.JAN.2020 09:33:56



Date: 6.JAN.2020 09:34:05

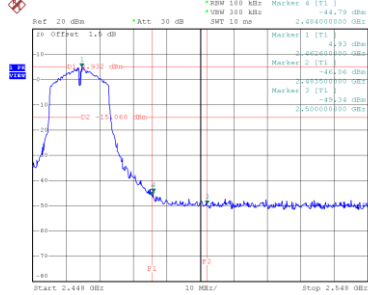
Test Mode TX N-20M Mode\_Ant. 1

### Bandedge-CH01



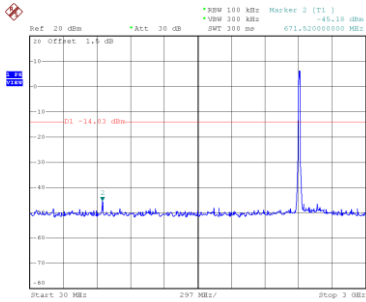
Date: 6.JAN.2020 09:17:10

### Bandedge-CH11

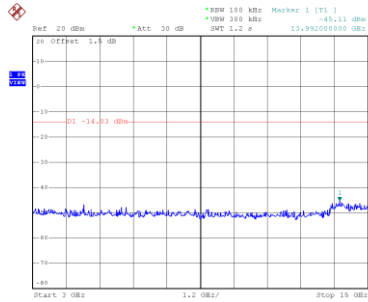


Date: 6.JAN.2020 09:42:13

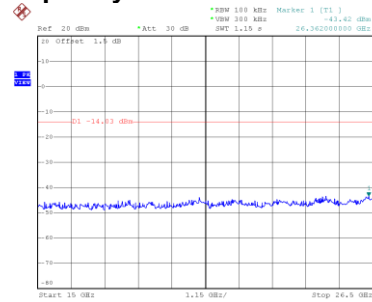
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:17:24

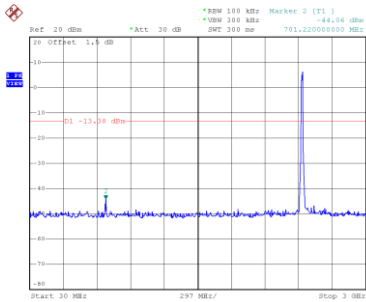


Date: 6.JAN.2020 09:17:33

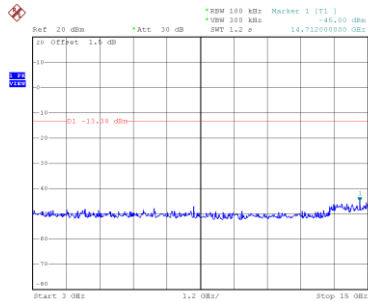


Date: 6.JAN.2020 09:17:43

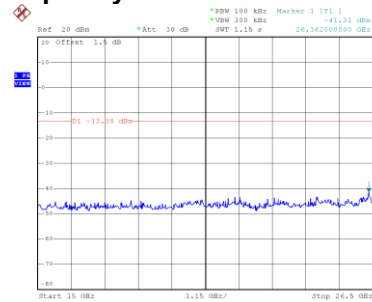
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:40:09

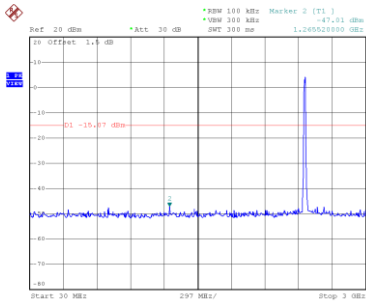


Date: 6.JAN.2020 09:40:19

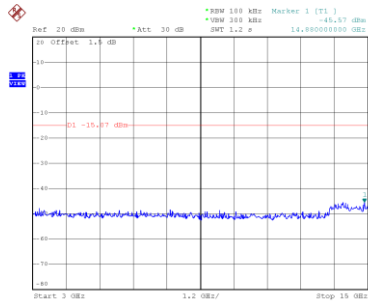


Date: 6.JAN.2020 09:40:28

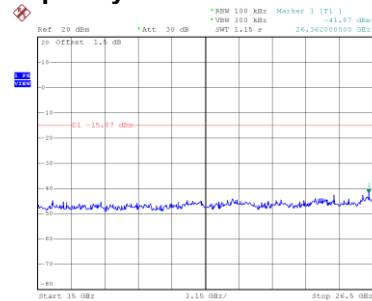
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:42:28



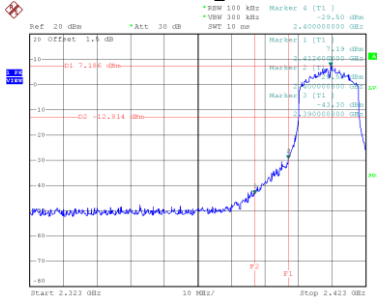
Date: 6.JAN.2020 09:42:37



Date: 6.JAN.2020 09:42:46

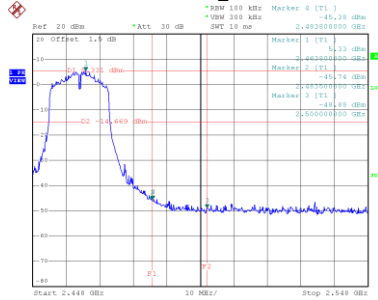
Test Mode TX N-20M Mode\_Ant. 2

### Bandedge-CH01



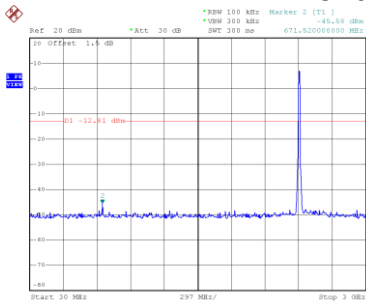
Date: 6.JAN.2020 09:54:34

### Bandedge-CH11

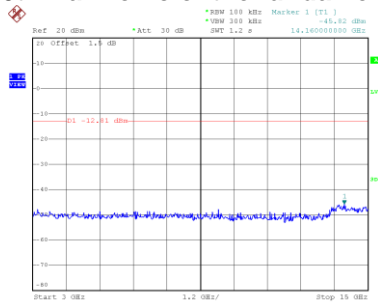


Date: 6.JAN.2020 10:01:14

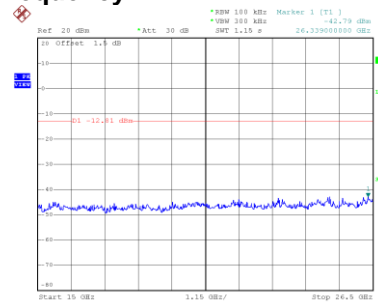
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:54:48

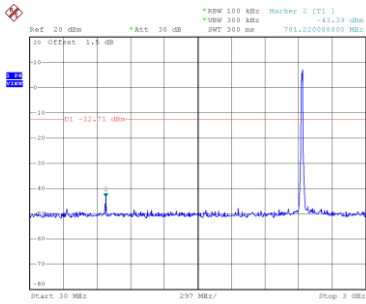


Date: 6.JAN.2020 09:54:57

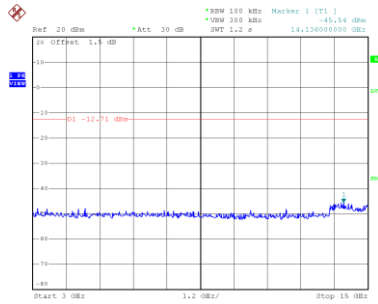


Date: 6.JAN.2020 09:55:07

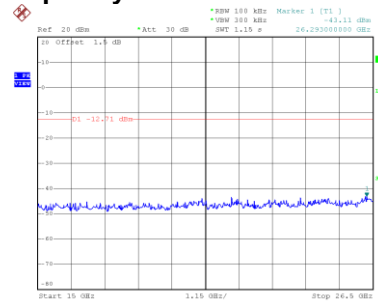
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:57:00

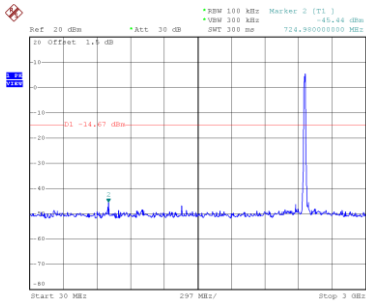


Date: 6.JAN.2020 09:57:09

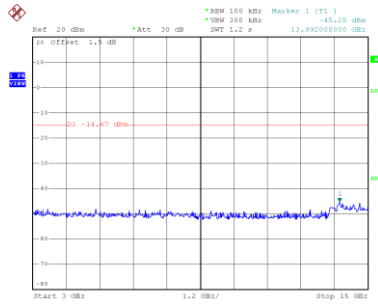


Date: 6.JAN.2020 09:57:18

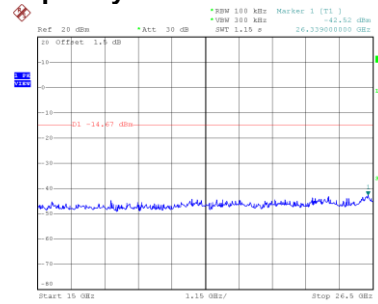
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:01:28



Date: 6.JAN.2020 10:01:37

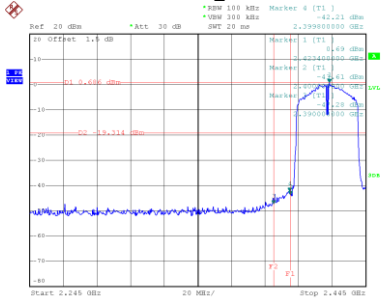


Date: 6.JAN.2020 10:01:47



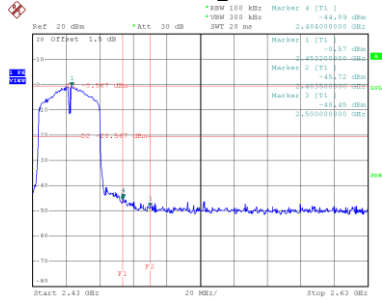
Test Mode TX N-40M Mode\_Ant. 1

### Bandedge-CH03



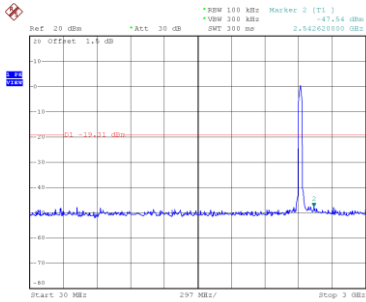
Date: 6.JAN.2020 09:45:04

### Bandedge-CH09

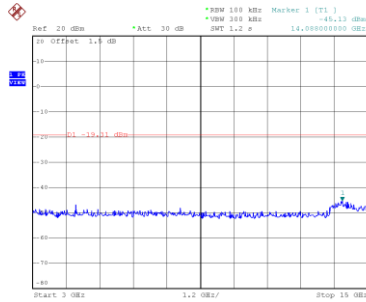


Date: 6.JAN.2020 09:51:27

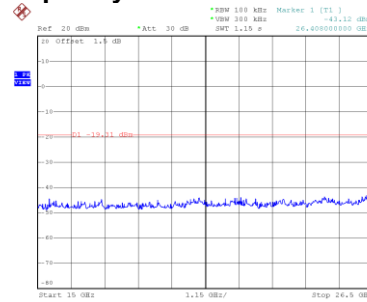
### CH03 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:45:19

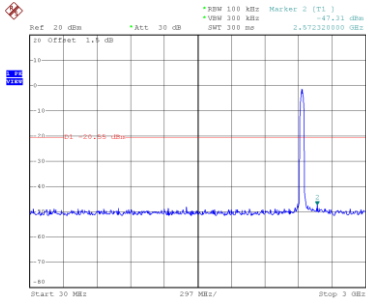


Date: 6.JAN.2020 09:45:28

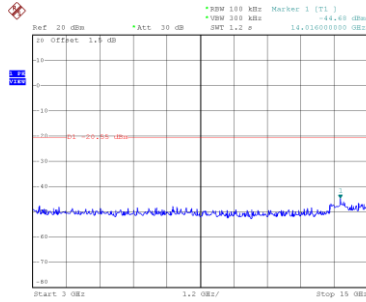


Date: 6.JAN.2020 09:45:37

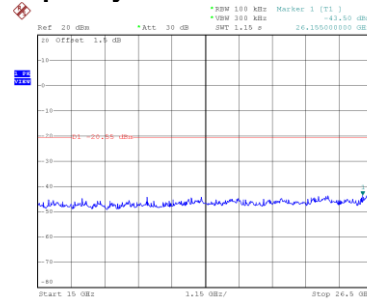
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:48:38

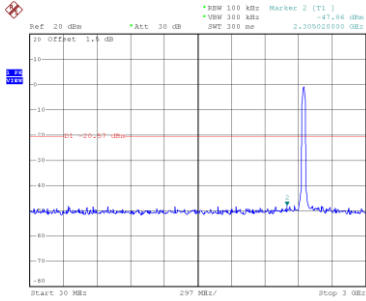


Date: 6.JAN.2020 09:48:46

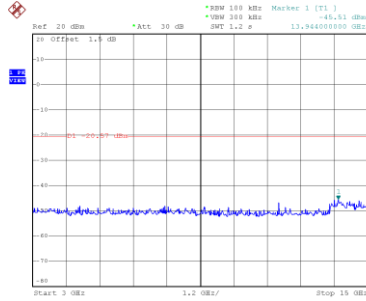


Date: 6.JAN.2020 09:48:57

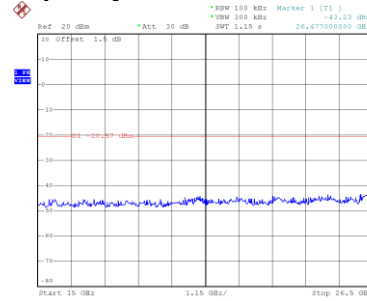
### CH09 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:51:41



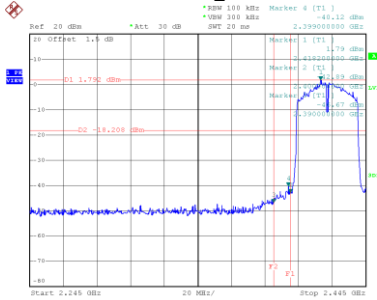
Date: 6.JAN.2020 09:51:51



Date: 6.JAN.2020 09:52:00

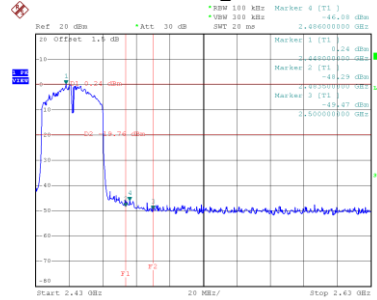
Test Mode TX N-40M Mode\_Ant. 2

### Bandedge-CH03



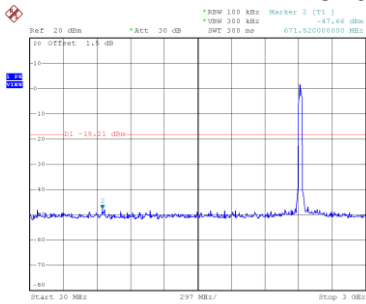
Date: 6.JAN.2020 10:03:43

### Bandedge-CH09

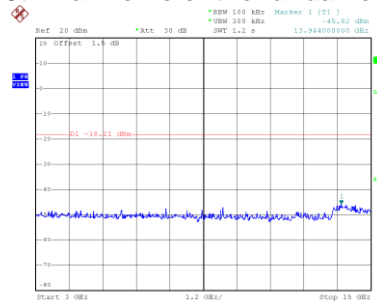


Date: 6.JAN.2020 10:07:57

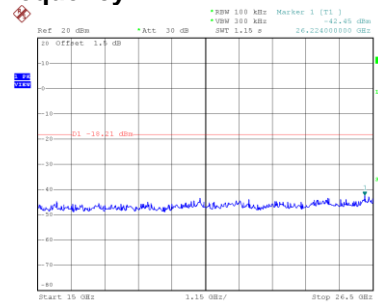
### CH03 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:03:58

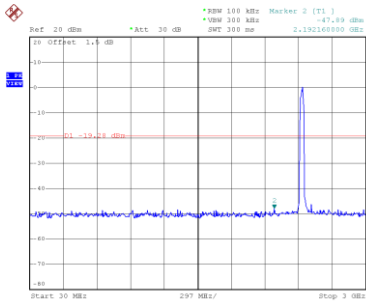


Date: 6.JAN.2020 10:04:07

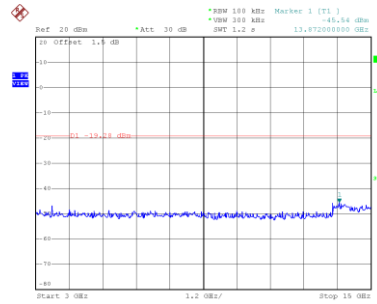


Date: 6.JAN.2020 10:04:16

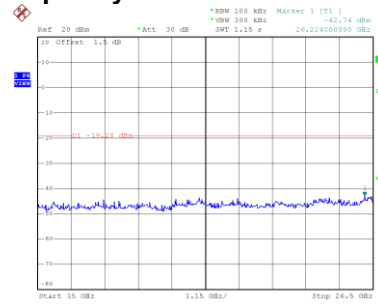
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:06:18

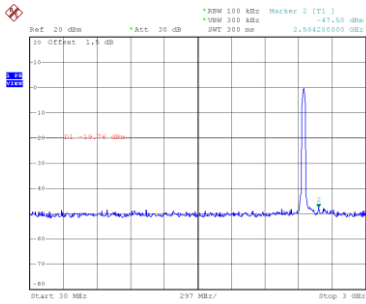


Date: 6.JAN.2020 10:06:27

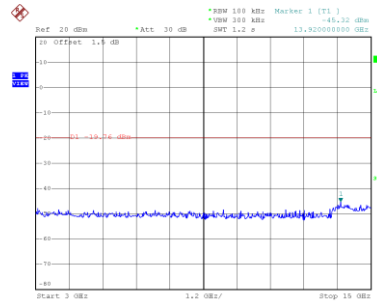


Date: 6.JAN.2020 10:06:36

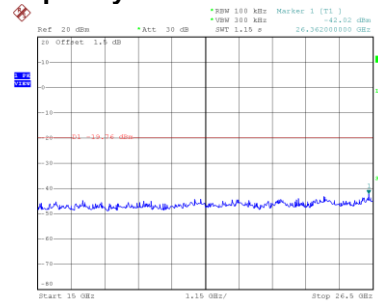
### CH09 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:08:12



Date: 6.JAN.2020 10:08:21

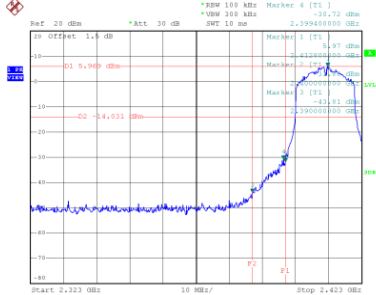


Date: 6.JAN.2020 10:08:30

## Beamforming

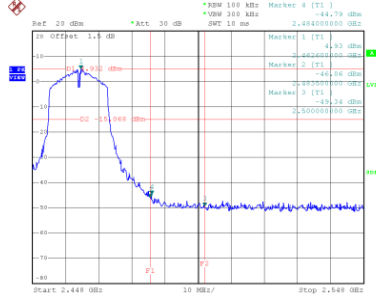
Test Mode TX N-20M Mode\_Ant. 1

### Bandedge-CH01



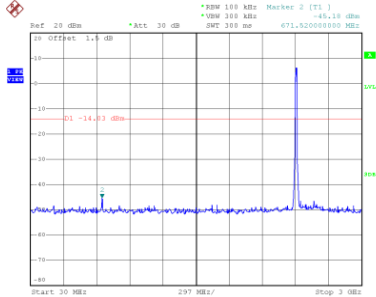
Date: 6.JAN.2020 09:37:10

### Bandedge-CH11

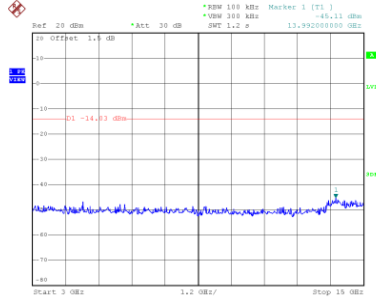


Date: 6.JAN.2020 09:42:13

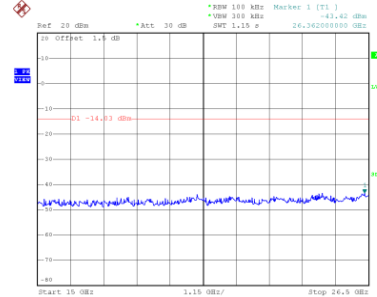
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:37:24

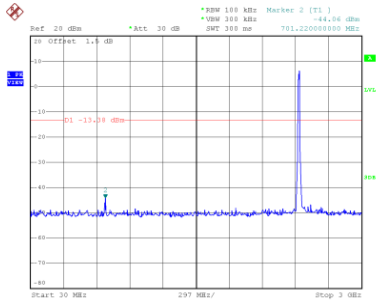


Date: 6.JAN.2020 09:37:33

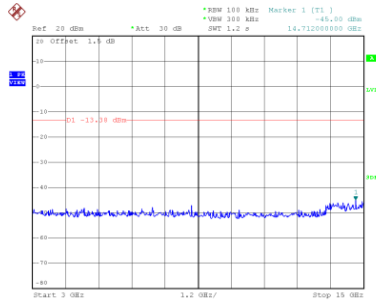


Date: 6.JAN.2020 09:37:43

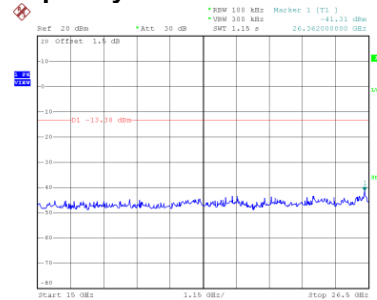
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:40:09

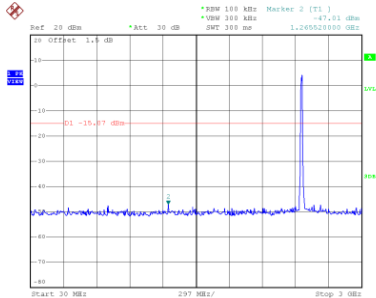


Date: 6.JAN.2020 09:40:19

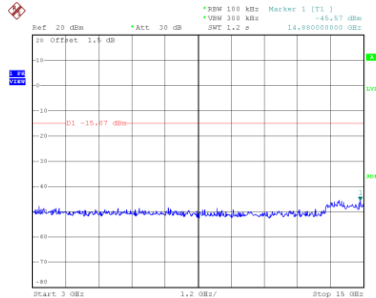


Date: 6.JAN.2020 09:40:28

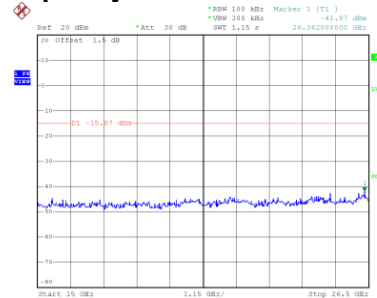
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:42:28



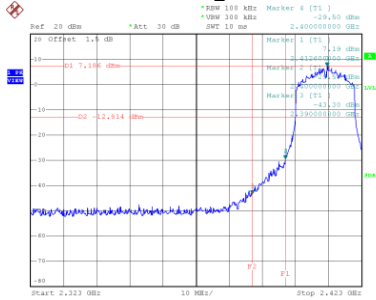
Date: 6.JAN.2020 09:42:37



Date: 6.JAN.2020 09:42:46

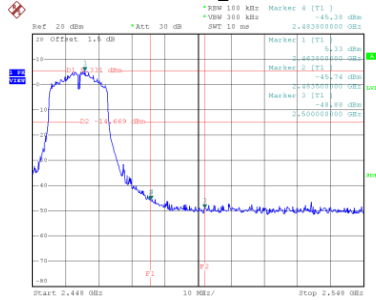
Test Mode TX N-20M Mode\_Ant. 2

### Bandedge-CH01



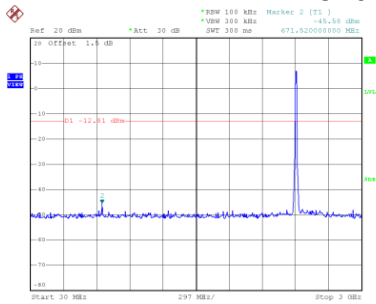
Date: 6.JAN.2020 09:54:14

### Bandedge-CH11

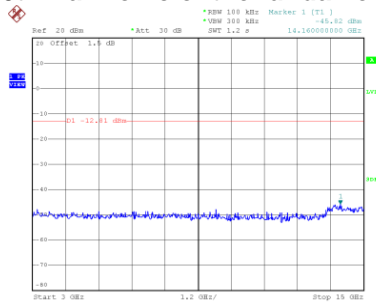


Date: 6.JAN.2020 10:01:14

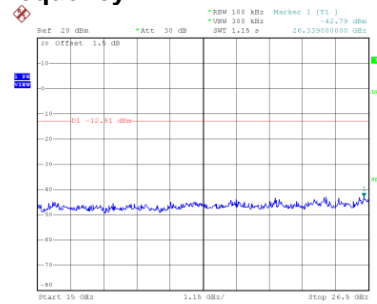
### CH01 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:54:48

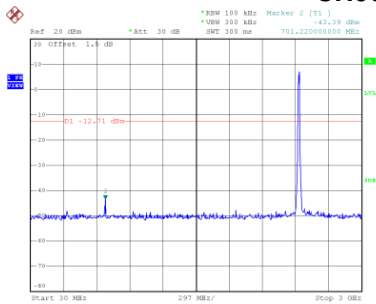


Date: 6.JAN.2020 09:54:57

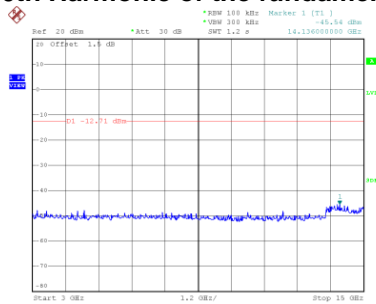


Date: 6.JAN.2020 09:55:07

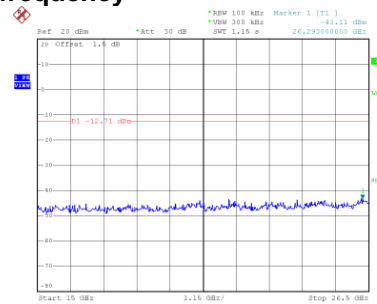
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:57:00

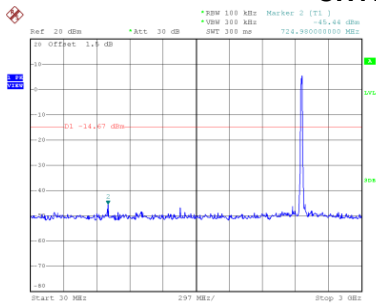


Date: 6.JAN.2020 09:57:09

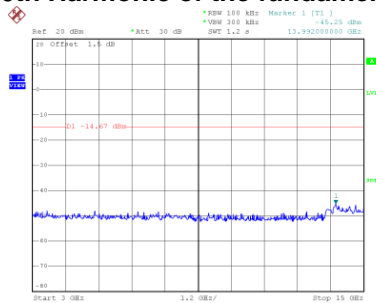


Date: 6.JAN.2020 09:57:18

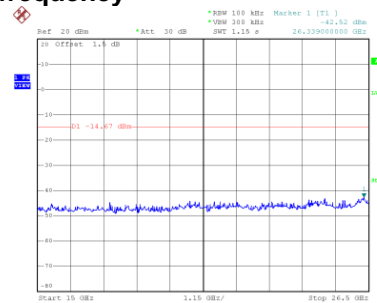
### CH11 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:01:28



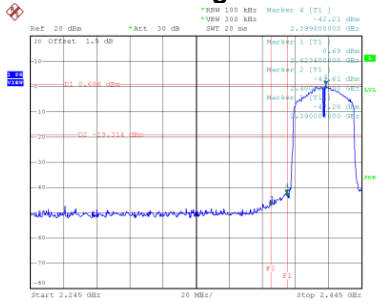
Date: 6.JAN.2020 10:01:37



Date: 6.JAN.2020 10:01:47

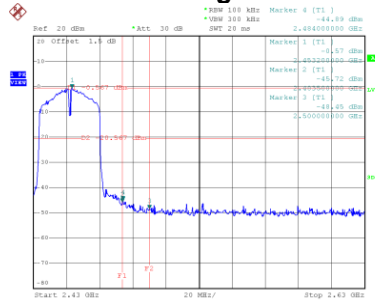
Test Mode TX N-40M Mode\_Ant. 1

### Bandedge-CH03



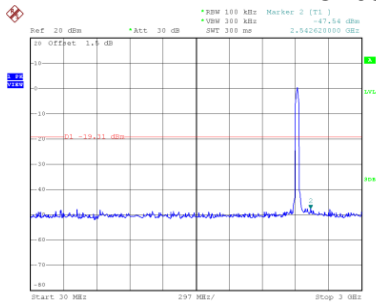
Date: 6.JAN.2020 09:45:04

### Bandedge-CH09

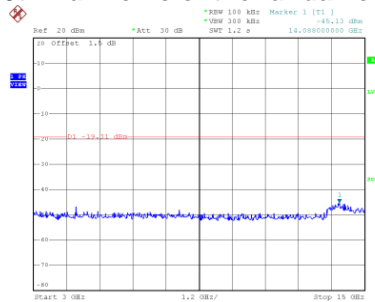


Date: 6.JAN.2020 09:51:27

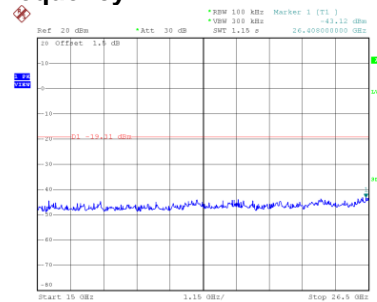
### CH03 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:45:19

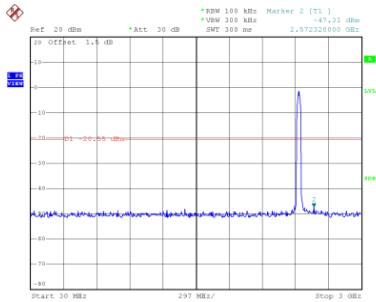


Date: 6.JAN.2020 09:45:28

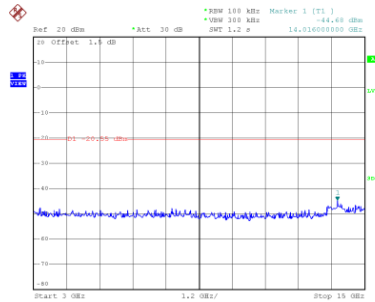


Date: 6.JAN.2020 09:45:37

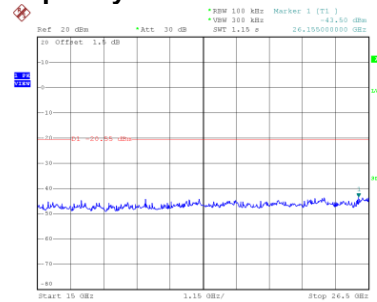
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:48:38

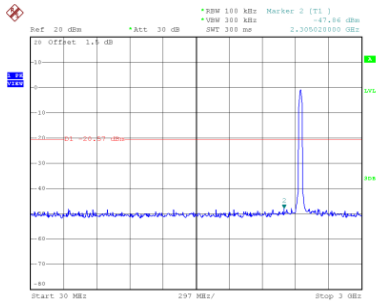


Date: 6.JAN.2020 09:48:48

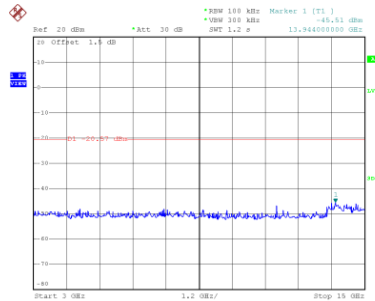


Date: 6.JAN.2020 09:48:57

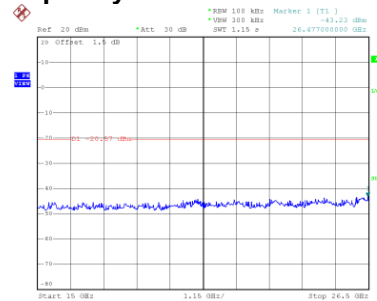
### CH09 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 09:51:41



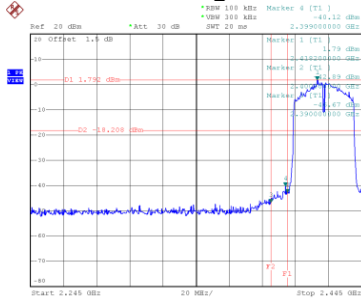
Date: 6.JAN.2020 09:51:51



Date: 6.JAN.2020 09:52:00

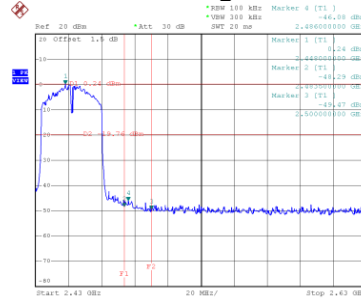
Test Mode TX N-40M Mode\_Ant. 2

### Bandedge-CH03



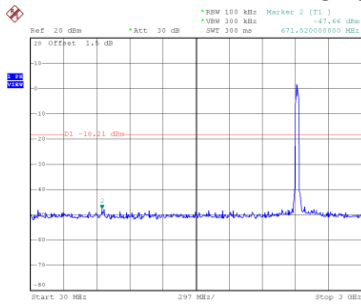
Date: 6.JAN.2020 10:03:43

### Bandedge-CH09

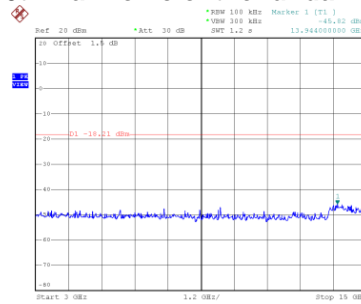


Date: 6.JAN.2020 10:07:57

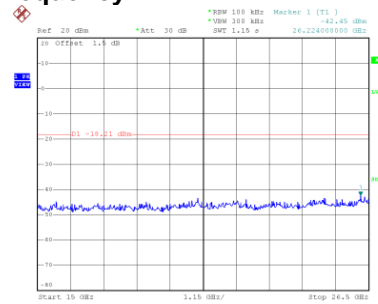
### CH03 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:03:58

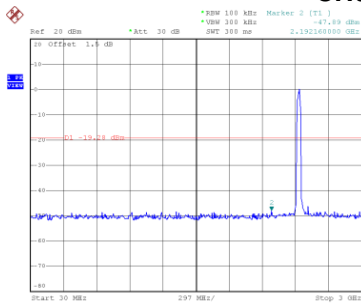


Date: 6.JAN.2020 10:04:07

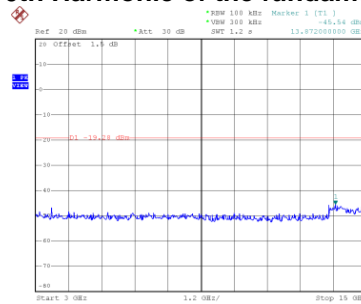


Date: 6.JAN.2020 10:04:16

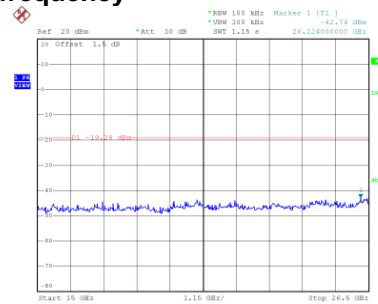
### CH06 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:06:18

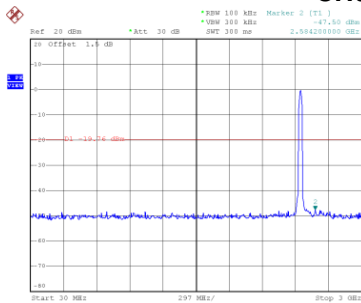


Date: 6.JAN.2020 10:06:27

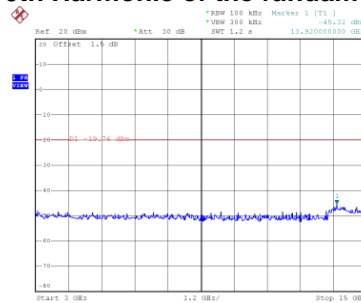


Date: 6.JAN.2020 10:06:36

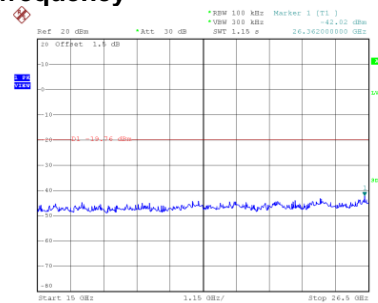
### CH09 – 10th Harmonic of the fundamental frequency



Date: 6.JAN.2020 10:08:12



Date: 6.JAN.2020 10:08:21



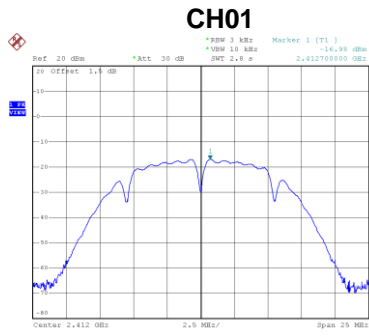
Date: 6.JAN.2020 10:08:30

## APPENDIX H - POWER SPECTRAL DENSITY

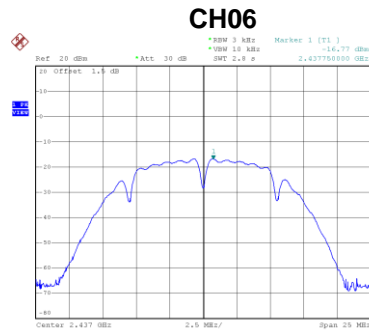
## Non-Beamforming

Test Mode	TX B Mode
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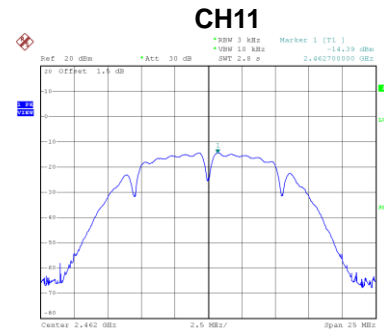
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-16.98	8.00	Complies
06	2437	-16.77	8.00	Complies
11	2462	-14.39	8.00	Complies



Date: 6.JAN.2020 09:11:38



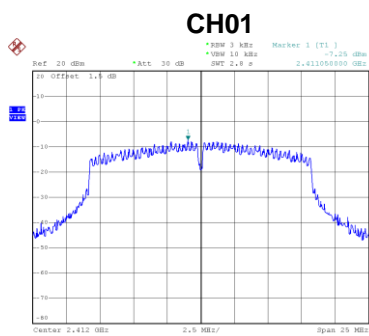
Date: 6.JAN.2020 09:19:10



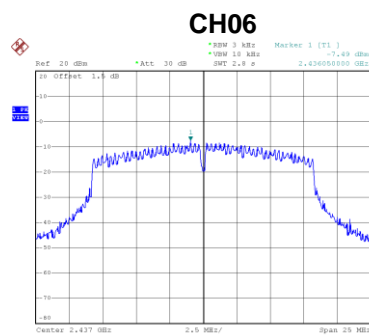
Date: 6.JAN.2020 09:21:56

Test Mode	TX G Mode
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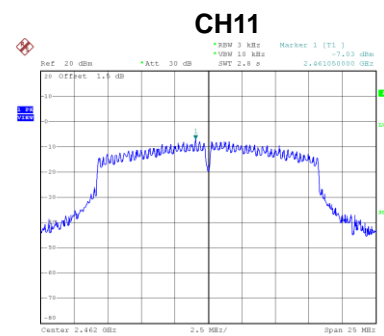
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.25	8.00	Complies
06	2437	-7.49	8.00	Complies
11	2462	-7.03	8.00	Complies



Date: 6.JAN.2020 09:25:38



Date: 6.JAN.2020 09:31:05

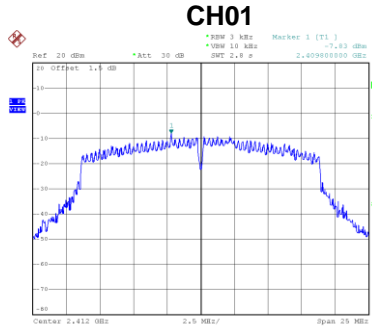


Date: 6.JAN.2020 09:34:16

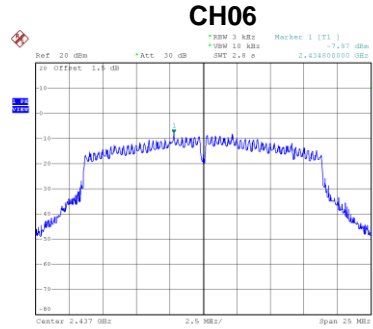


Test Mode	TX N-20M Mode_Ant. 1
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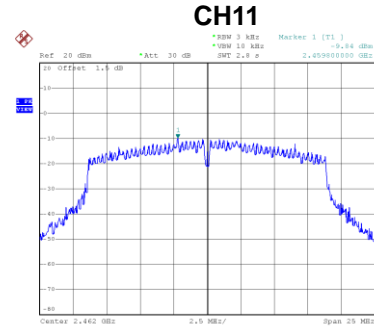
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.83	8.00	Complies
06	2437	-7.87	8.00	Complies
11	2462	-9.84	8.00	Complies



Date: 6.JAN.2020 09:37:53



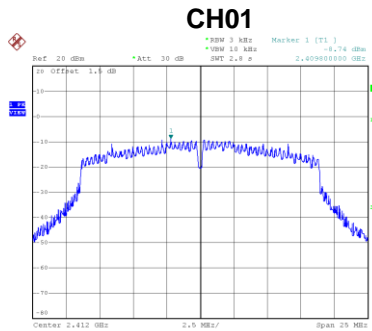
Date: 6.JAN.2020 09:40:38



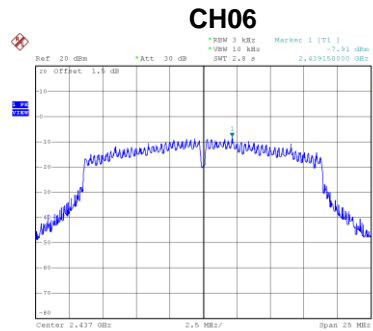
Date: 6.JAN.2020 09:42:56

Test Mode	TX N-20M Mode_Ant. 2
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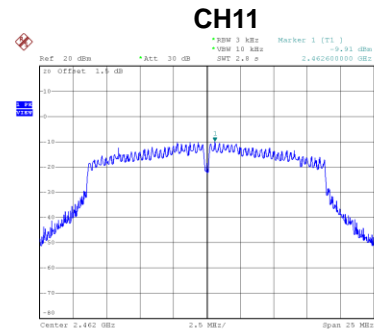
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.74	8.00	Complies
06	2437	-7.91	8.00	Complies
11	2462	-9.91	8.00	Complies



Date: 6.JAN.2020 09:55:17



Date: 6.JAN.2020 09:57:28



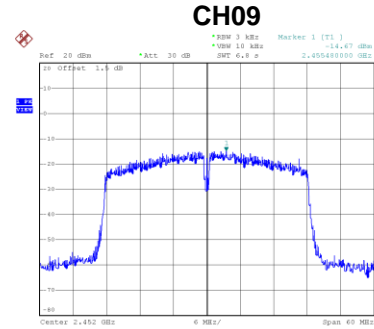
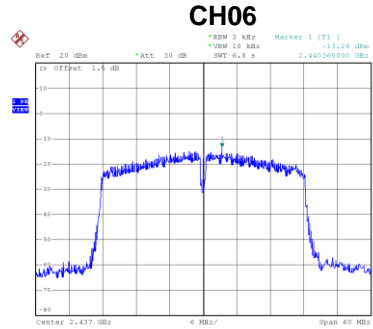
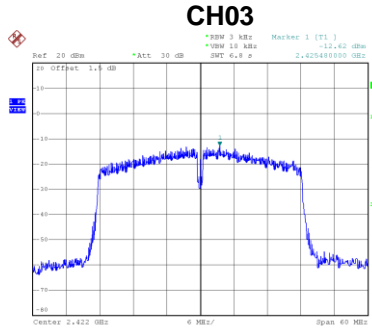
Date: 6.JAN.2020 10:01:57

Test Mode	TX N-20M Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.25	5.99	Complies
06	2437	-4.88	5.99	Complies
11	2462	-6.86	5.99	Complies

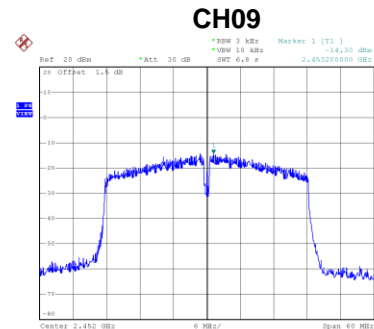
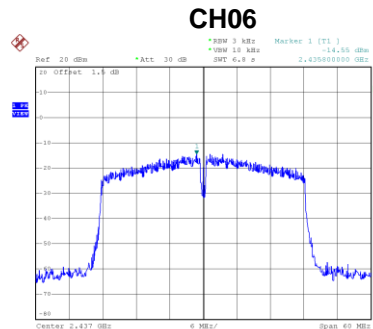
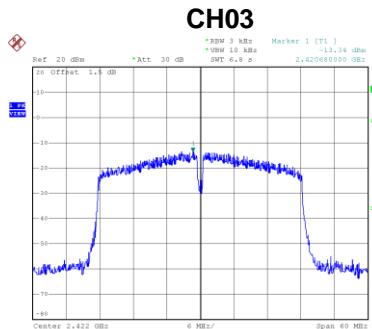
Test Mode	TX N-40M Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-12.62	8.00	Complies
06	2437	-13.26	8.00	Complies
09	2452	-14.67	8.00	Complies



Test Mode	TX N-40M Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-13.34	8.00	Complies
06	2437	-14.55	8.00	Complies
09	2452	-14.30	8.00	Complies



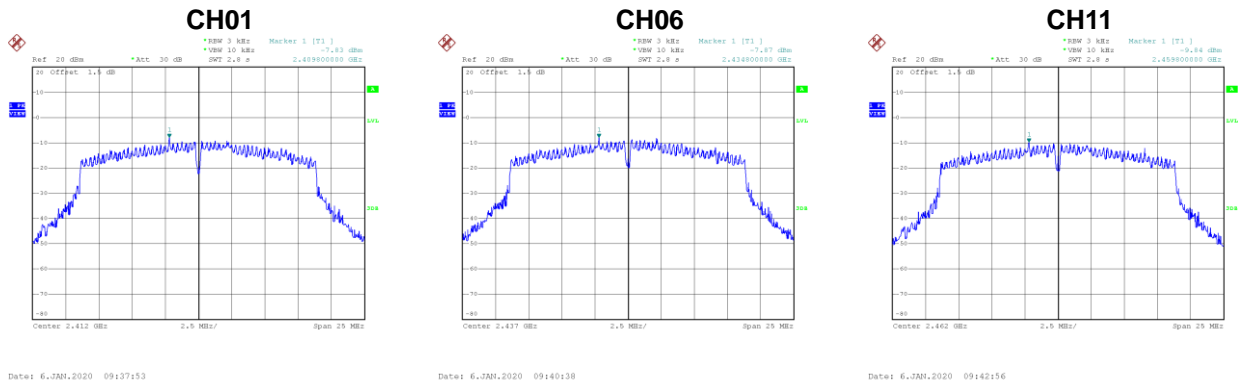
Test Mode	TX N-40M Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-9.95	5.99	Complies
06	2437	-10.85	5.99	Complies
09	2452	-11.47	5.99	Complies

## Beamforming

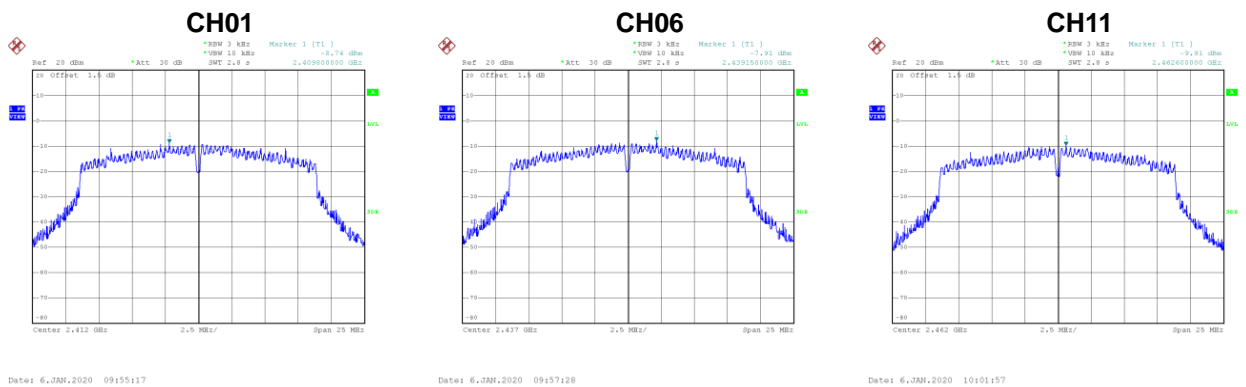
Test Mode	TX N-20M Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.83	8.00	Complies
06	2437	-7.87	8.00	Complies
11	2462	-9.84	8.00	Complies



Test Mode	TX N-20M Mode_Ant. 2
-----------	----------------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.74	8.00	Complies
06	2437	-7.91	8.00	Complies
11	2462	-9.91	8.00	Complies

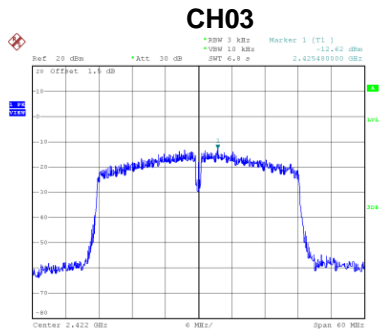


Test Mode	TX N-20M Mode_Total
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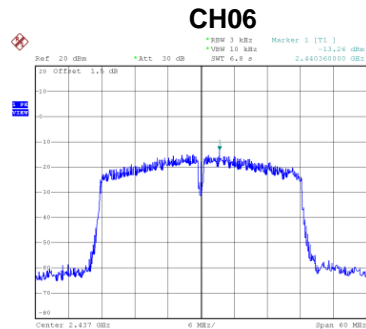
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.25	6.00	Complies
06	2437	-4.88	6.00	Complies
11	2462	-6.86	6.00	Complies

Test Mode	TX N-40M Mode_Ant. 1
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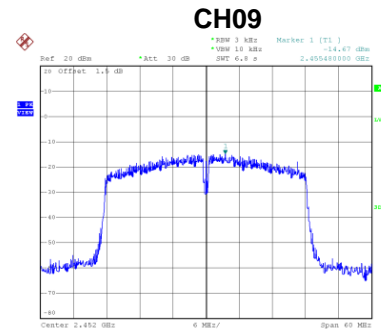
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-12.62	8.00	Complies
06	2437	-13.26	8.00	Complies
09	2452	-14.67	8.00	Complies



Date: 6.JAN.2020 09:45:50



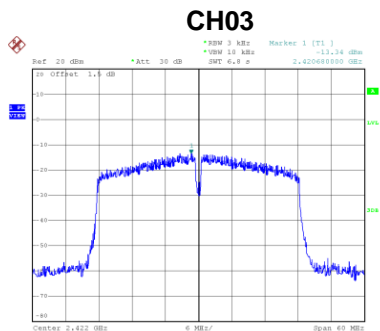
Date: 6.JAN.2020 09:49:10



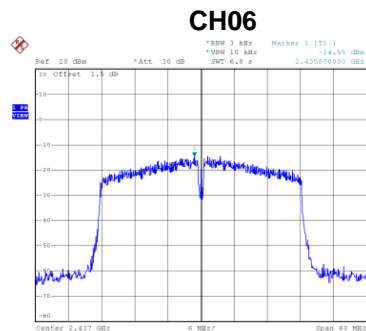
Date: 6.JAN.2020 09:52:13

Test Mode	TX N-40M Mode_Ant. 2
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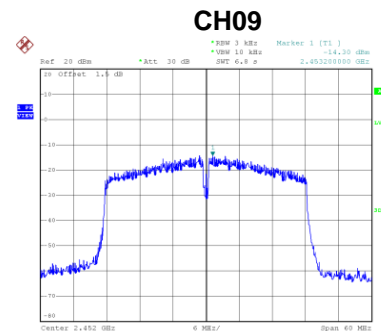
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-13.34	8.00	Complies
06	2437	-14.55	8.00	Complies
09	2452	-14.30	8.00	Complies



Date: 6.JAN.2020 10:04:29



Date: 6.JAN.2020 10:06:49



Date: 6.JAN.2020 10:08:43

Test Mode	TX N-40M Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-9.95	6.00	Complies
06	2437	-10.85	6.00	Complies
09	2452	-11.47	6.00	Complies

End of Test Report