

# FCC Radio Test Report

## FCC ID: TE7AX10V1

**This report concerns: Original Grant**

**Project No.** : 1905C079A  
**Equipment** : AX1500 Wi-Fi 6 Router  
**Brand Name** : tp-link  
**Test Model** : Archer AX10, Archer AX1500  
**Series Model** : N/A  
**Applicant** : TP-Link Technologies Co., Ltd.  
**Address** : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
**Manufacturer** : TP-Link Technologies Co., Ltd.  
**Address** : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
**Date of Receipt** : Nov. 28, 2019  
**Date of Test** : Nov. 29, 2019 ~ Jan. 16, 2020  
**Issued Date** : Jan. 20, 2020  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2020010657  
**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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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**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.	Jan. 20, 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 Average 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	Laughing Zhang
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	26°C	65%	AC 120V/60Hz	Laughing Zhang
Bandwidth	25°C	62%	DC 12V	Jonas Chen
Maximum Average Output Power	25°C	62%	DC 12V	Damon Deng
Conducted Spurious Emissions	25°C	62%	DC 12V	Jonas Chen
Power Spectral Density	25°C	62%	DC 12V	Jonas Chen



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1500 Wi-Fi 6 Router
Brand Name	tp-link
Test Model	Archer AX10, Archer AX1500
Series Model	N/A
Model Difference(s)	Only differ in model name.
Software Version	1.0.0 P1[20191103-rel80377]
Hardware Version	1.0
Power Source	DC voltage supplied from AC/DC adapter. Brand / Model: AMIGO / AMS159A-1201000FU
Power Rating	I/P: 100-240V~ 50/60Hz 0.5A O/P: 12V --- 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 Average Output Power	IEEE 802.11b: 22.23 dBm (0.1671 W) IEEE 802.11g: 23.05 dBm (0.2018 W) IEEE 802.11n (HT20): 23.16 dBm (0.2070 W) IEEE 802.11n (HT40): 17.69 dBm (0.0587 W)

Note:

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

#### 2. 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	3.82
2	N/A	N/A	Dipole	N/A	3.82

Note: This EUT supports CDD, and all antennas have the same gain,

Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows:

For power spectral density measurements,  $N_{ANT} = 2$ ,  $N_{SS} = 1$ .

So Directional gain =  $G_{ANT} + \text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.82 + 10 \log (2/1) \text{ dBi} = 6.83$ .

Then, the power density limit is  $8 - (6.83 - 6) = 7.17$ .

For power measurements, Array Gain = 0 dB ( $N_{ANT} \leq 4$ ), so the Directional gain = 3.82.

### 4. Table for Antenna Configuration:

Operating Mode TX Mode	1TX	2TX
IEEE 802.11b	V (Ant. 1)	-
IEEE 802.11g	-	V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT20)	-	V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT40)	-	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 B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 8	TX N-40 MHz Mode Channel 03/04/06/08/09
Mode 9	TX N-20 Mode Channel 06

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

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 9	TX N-20 Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 9	TX N-20 Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode:	Description
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 8	TX N-40 MHz Mode Channel 03/04/06/08/09

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

**NOTE:**

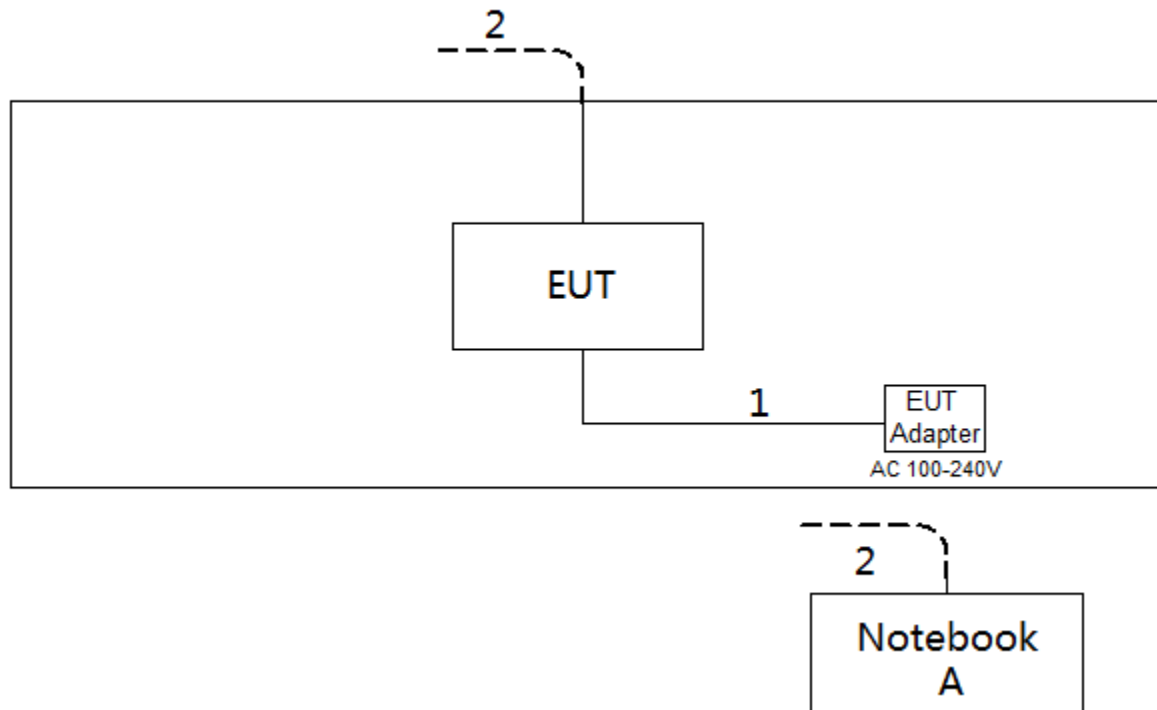
- (1) The measurements are performed at the high, middle, low available channels.
- (2) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n (HT20) Channel 06 is found to be 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.

### 2.3 PARAMETERS OF TEST SOFTWARE

Test Software	accessMTool v3.1.0.3		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	83	86	88
IEEE 802.11g	65	80	68
IEEE 802.11n (HT20)	60	80	59
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	46	60	46

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.

## 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

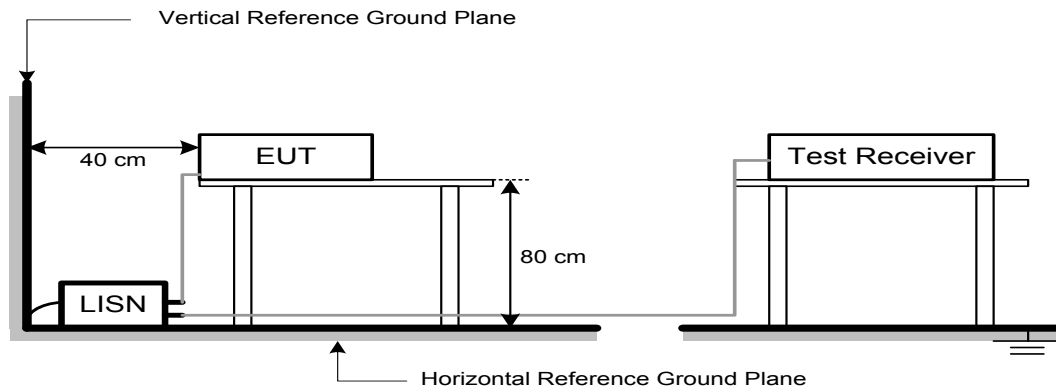
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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).

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

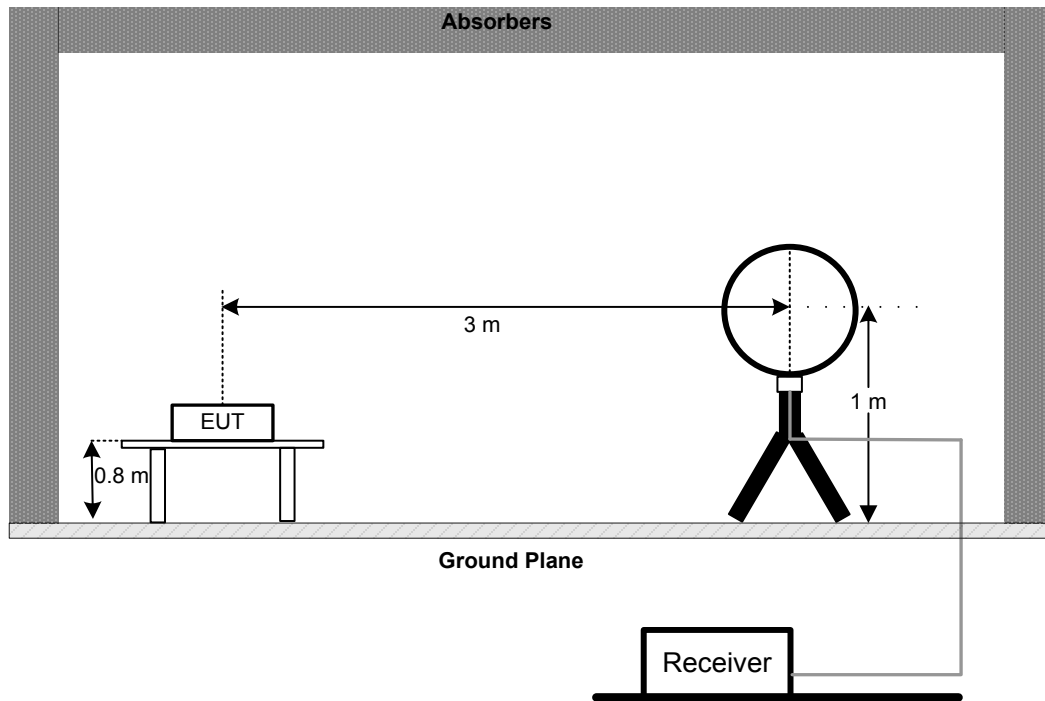
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance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

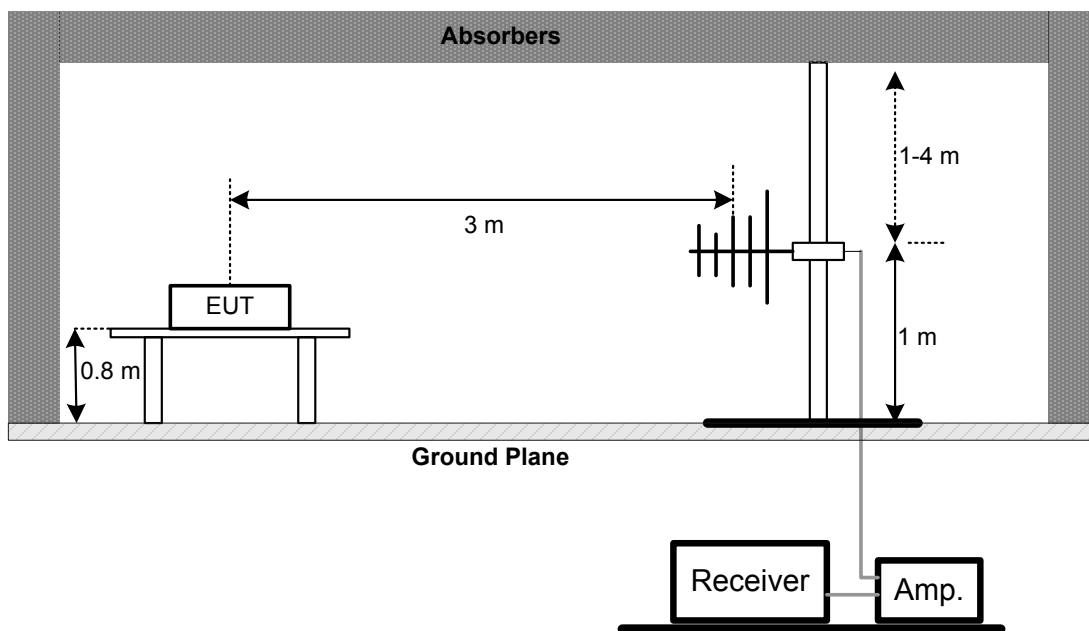
No deviation

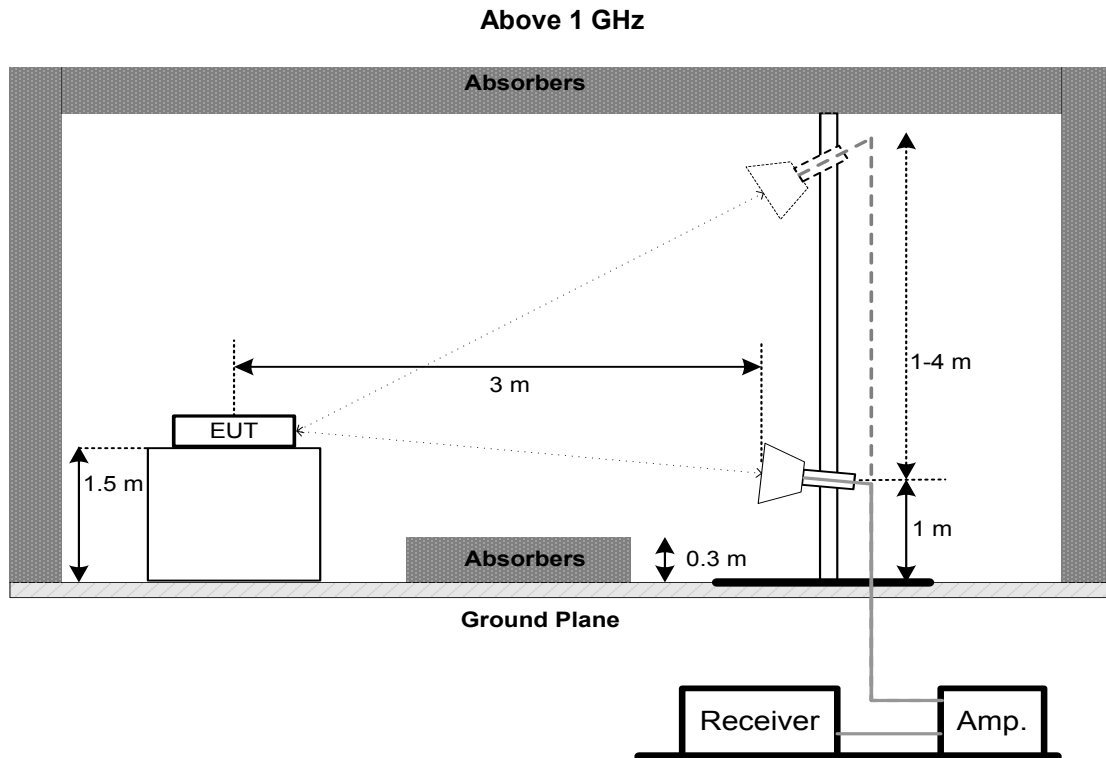
## 4.4 TEST SETUP

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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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.
- 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 AVERAGE OUTPUT POWER TEST

### 6.1 LIMIT

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

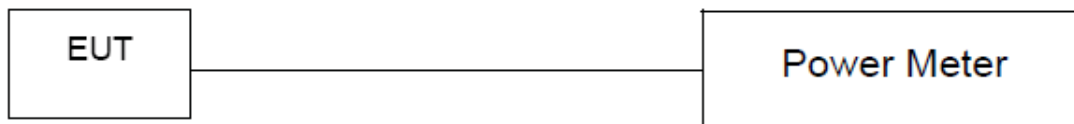
### 6.2 TEST PROCEDURE

- 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 11.9.2.3.1 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.

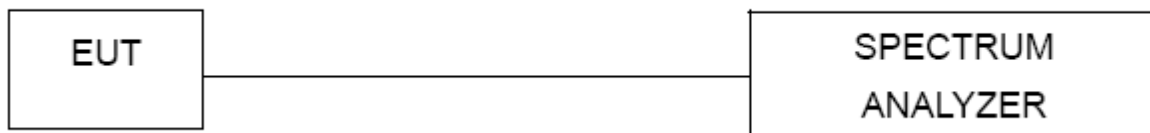
### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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)

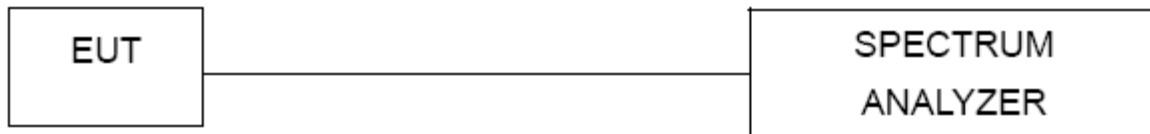
### 8.2 TEST PROCEDURE

- 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. 14, 2021
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 Average 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**

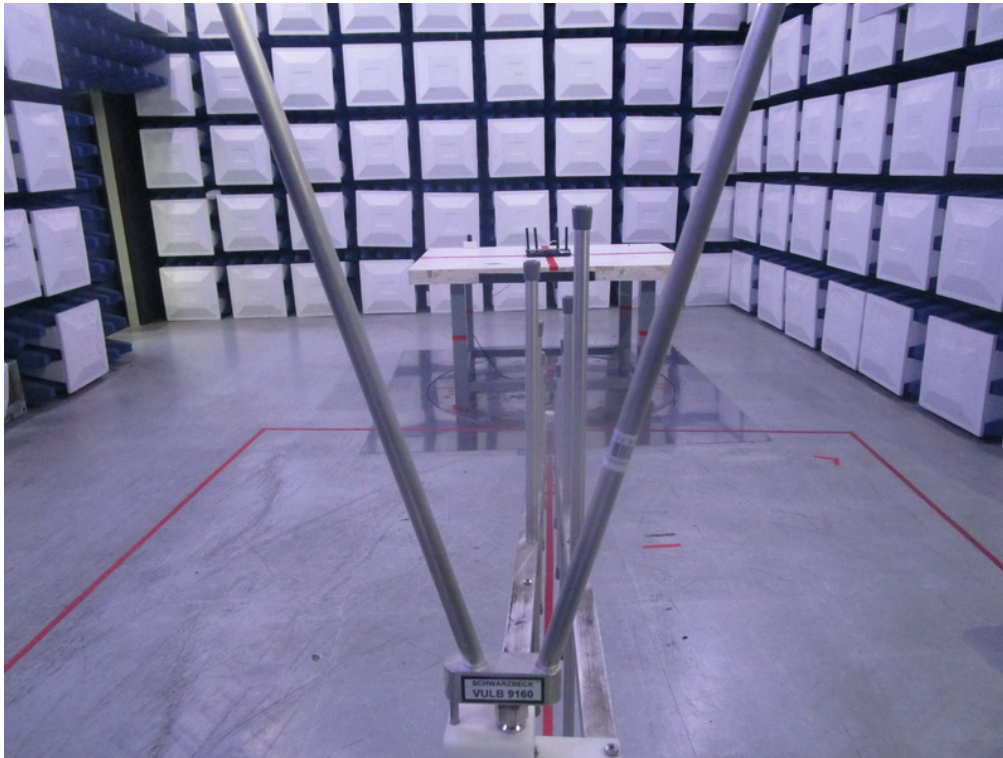
**9 kHz to 30 MHz**





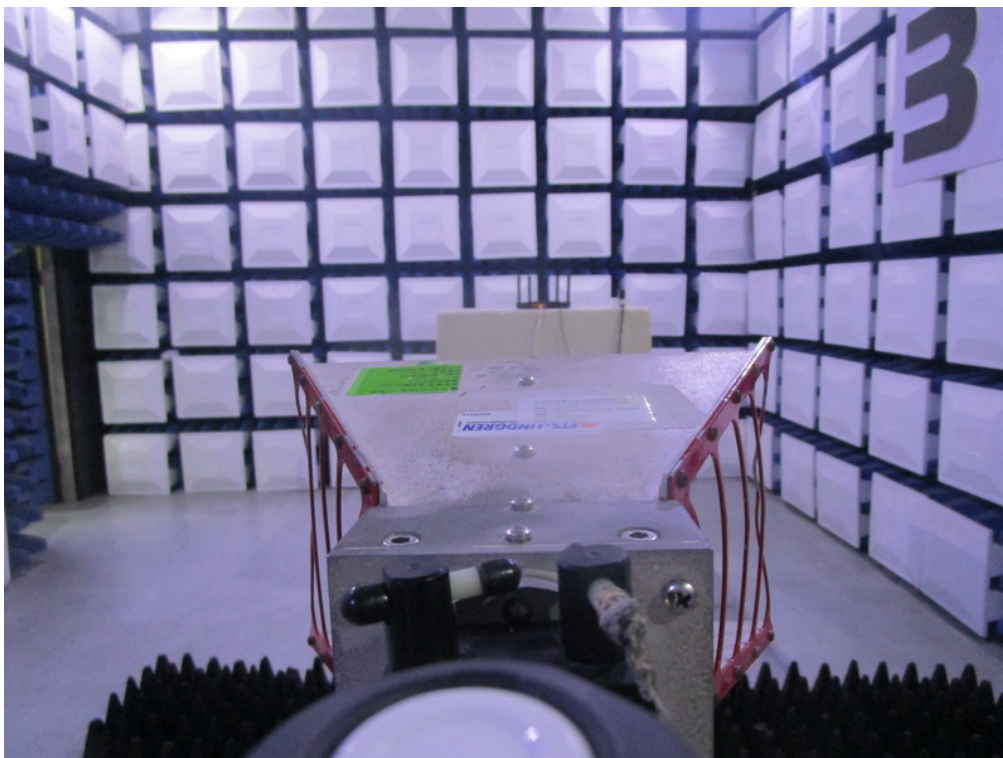
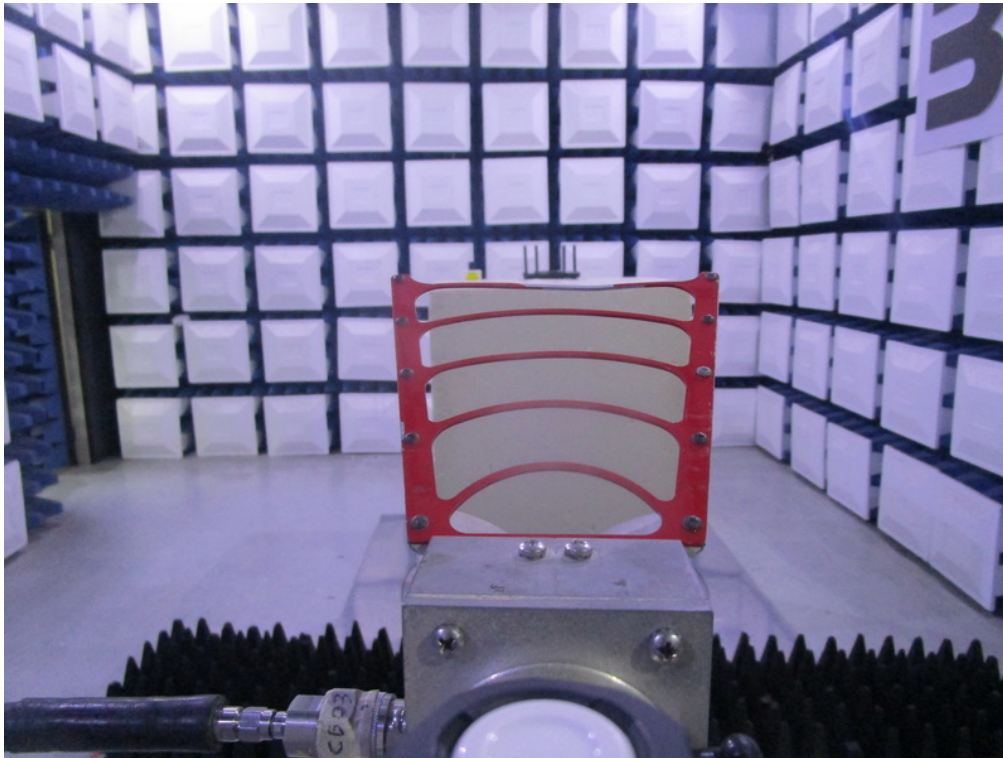
## Radiated Emissions Test Photos

30 MHz to 1 GHz



## Radiated Emissions Test Photos

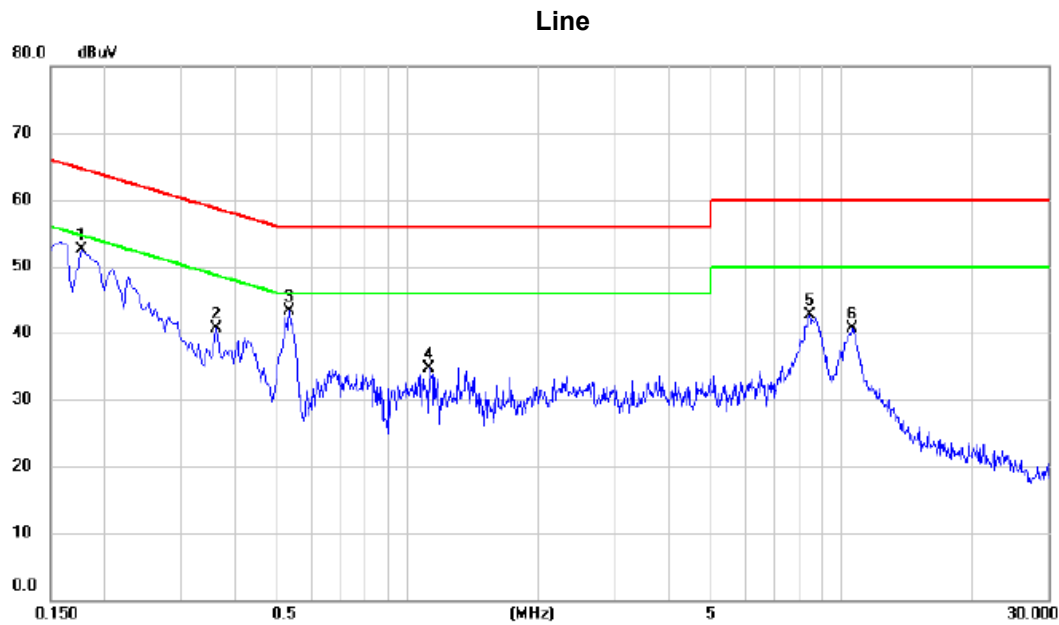
Above 1 GHz



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



Test Mode: TX N20 Mode Channel 06



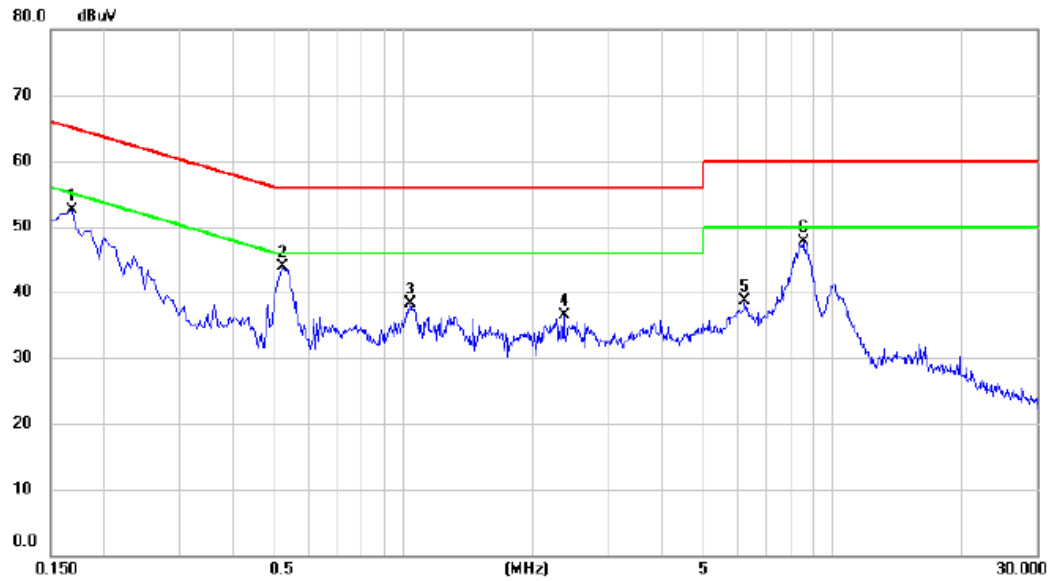
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1770	42.70	9.82	52.52	64.63	-12.11	peak	
2		0.3615	30.76	9.85	40.61	58.69	-18.08	peak	
3		0.5324	33.43	9.88	43.31	56.00	-12.69	peak	
4		1.1220	24.81	9.93	34.74	56.00	-21.26	peak	
5		8.4120	32.22	10.41	42.63	60.00	-17.37	peak	
6		10.5540	30.25	10.52	40.77	60.00	-19.23	peak	

## REMARKS:

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

Test Mode: TX N20 Mode Channel 06

## Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	42.55	9.91	52.46	65.06	-12.60	peak	
2	*	0.5235	33.89	10.03	43.92	56.00	-12.08	peak	
3		1.0320	28.11	10.12	38.23	56.00	-17.77	peak	
4		2.3685	26.27	10.21	36.48	56.00	-19.52	peak	
5		6.2430	28.14	10.51	38.65	60.00	-21.35	peak	
6		8.5424	37.03	10.67	47.70	60.00	-12.30	peak	

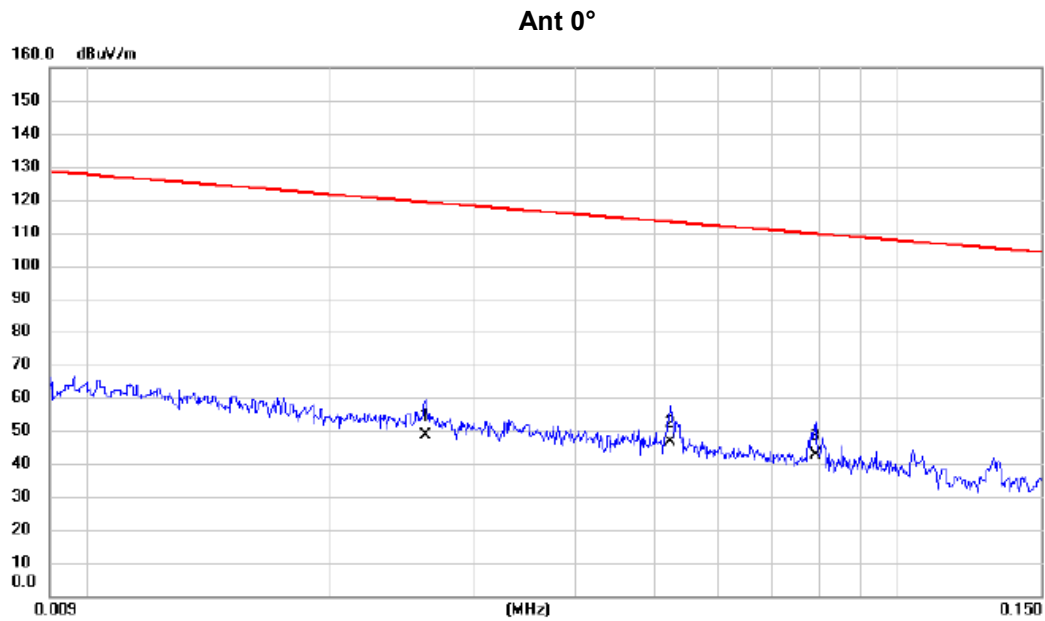
### REMARKS:

(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



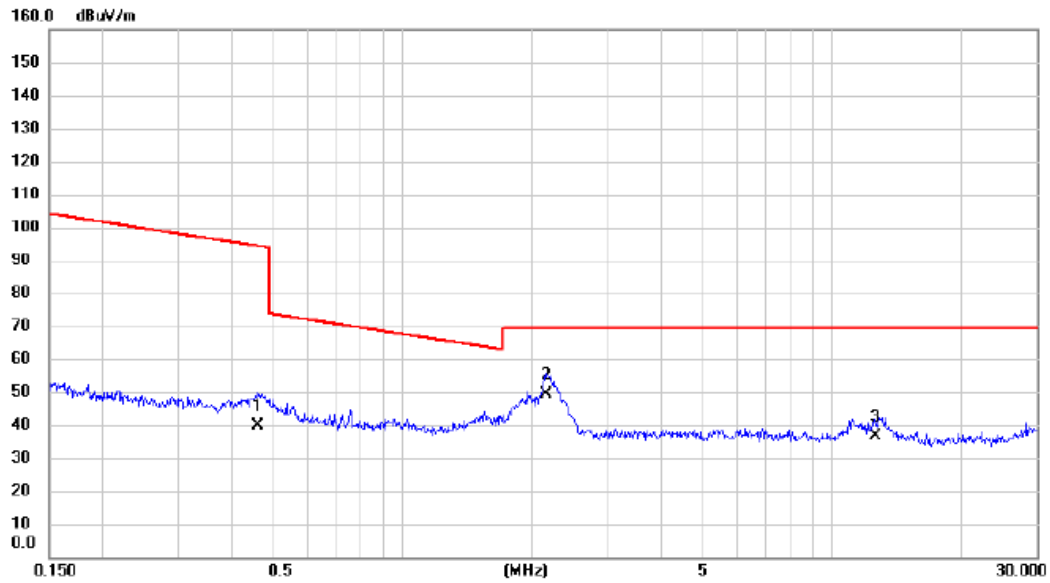
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.026	34.89	13.84	48.73	119.24	-70.51	AVG	
2 *	0.052	32.84	13.89	46.73	113.22	-66.49	AVG	
3	0.079	29.16	13.54	42.70	109.65	-66.95	AVG	

## REMARKS:

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

Test Mode: TX N20 Mode Channel 06

Ant 0°



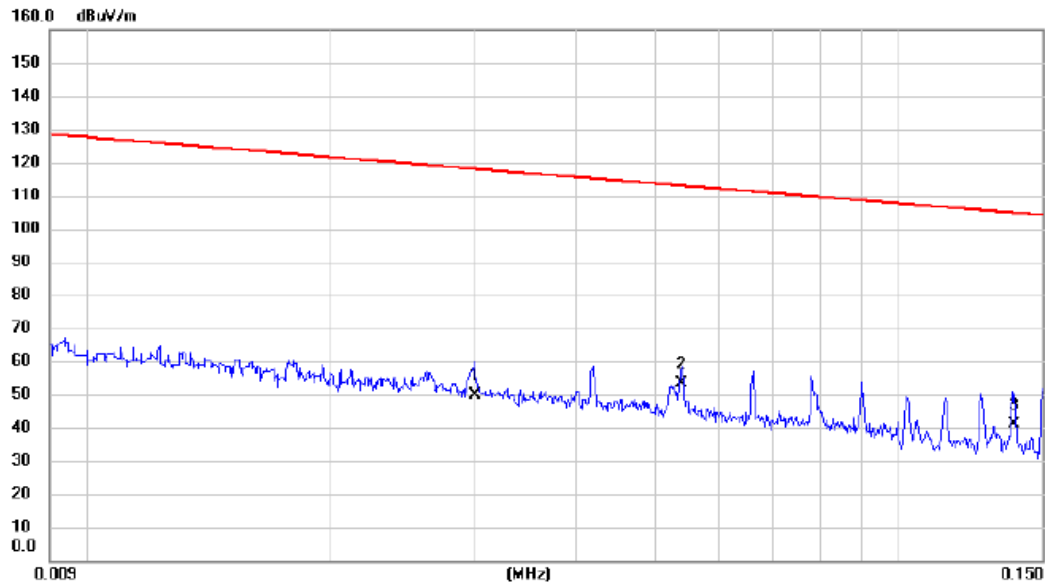
No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	0.461	26.46	13.15	39.61	94.33	-54.72	AVG	
2 *	2.155	37.85	11.73	49.58	69.54	-19.96	QP	
3	12.582	24.93	11.60	36.53	69.54	-33.01	QP	

## REMARKS:

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

Test Mode: TX N20 Mode Channel 06

Ant 90°

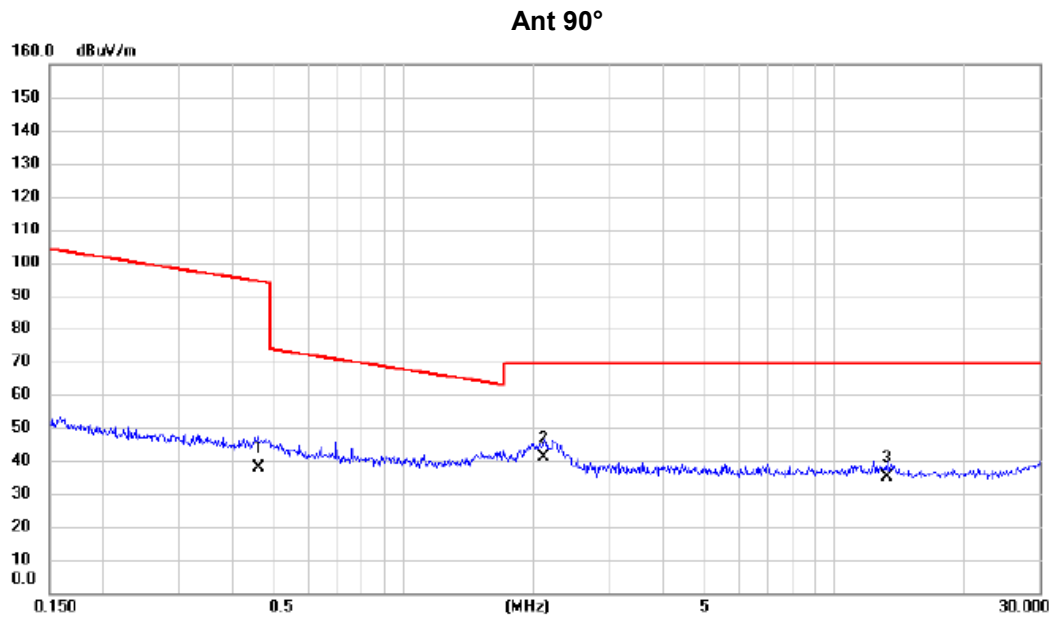


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.030	35.83	13.85	49.68	118.03	-68.35	AVG	
2	*	0.054	39.64	13.87	53.51	112.96	-59.45	AVG	
3		0.138	27.48	13.56	41.04	104.80	-63.76	QP	

## REMARKS:

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

Test Mode: TX N20 Mode Channel 06



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.459	24.57	13.16	37.73	94.37	-56.64	AVG	
2 *	2.110	29.41	11.75	41.16	69.54	-28.38	QP	
3	13.267	23.31	11.59	34.90	69.54	-34.64	QP	

## REMARKS:

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

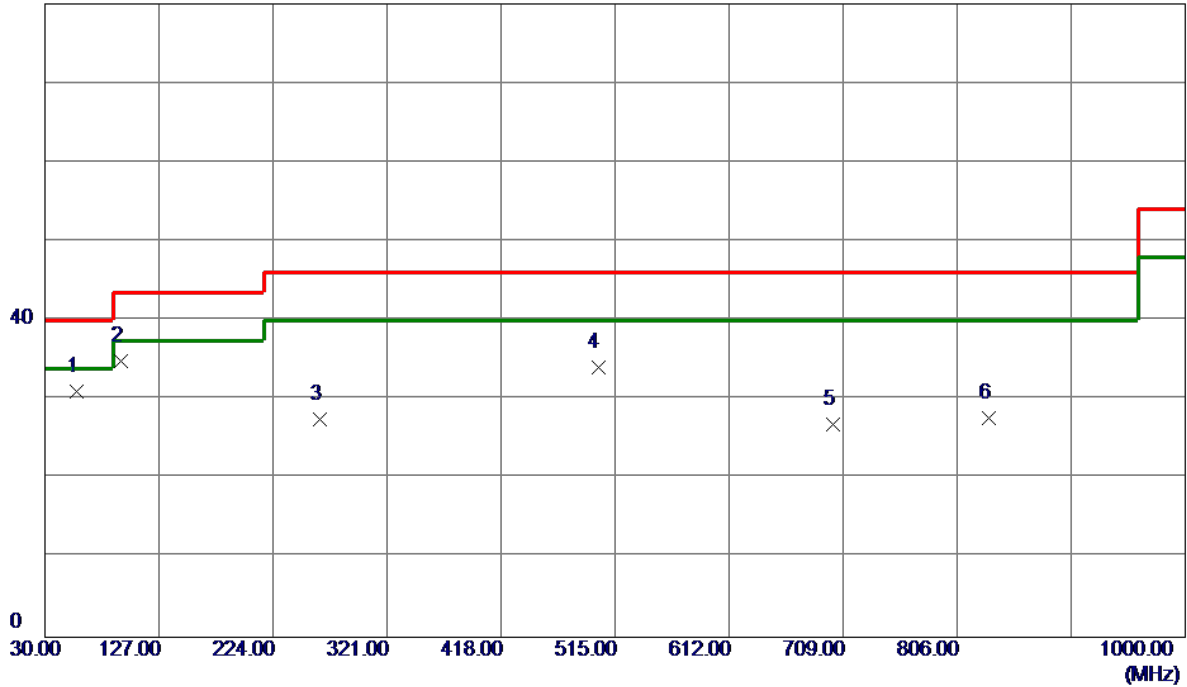
## **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**



Test Mode: TX N20 Mode Channel 06

## Vertical

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	57.1600	45.46	-14.42	31.04	40.00	-8.96	Peak	
2 *	94.9900	50.41	-15.60	34.81	43.50	-8.69	Peak	
3	263.7700	40.43	-12.89	27.54	46.00	-18.46	Peak	
4	500.4500	41.82	-7.75	34.07	46.00	-11.93	Peak	
5	700.2700	30.94	-4.03	26.91	46.00	-19.09	Peak	
6	833.1599	30.23	-2.57	27.66	46.00	-18.34	Peak	

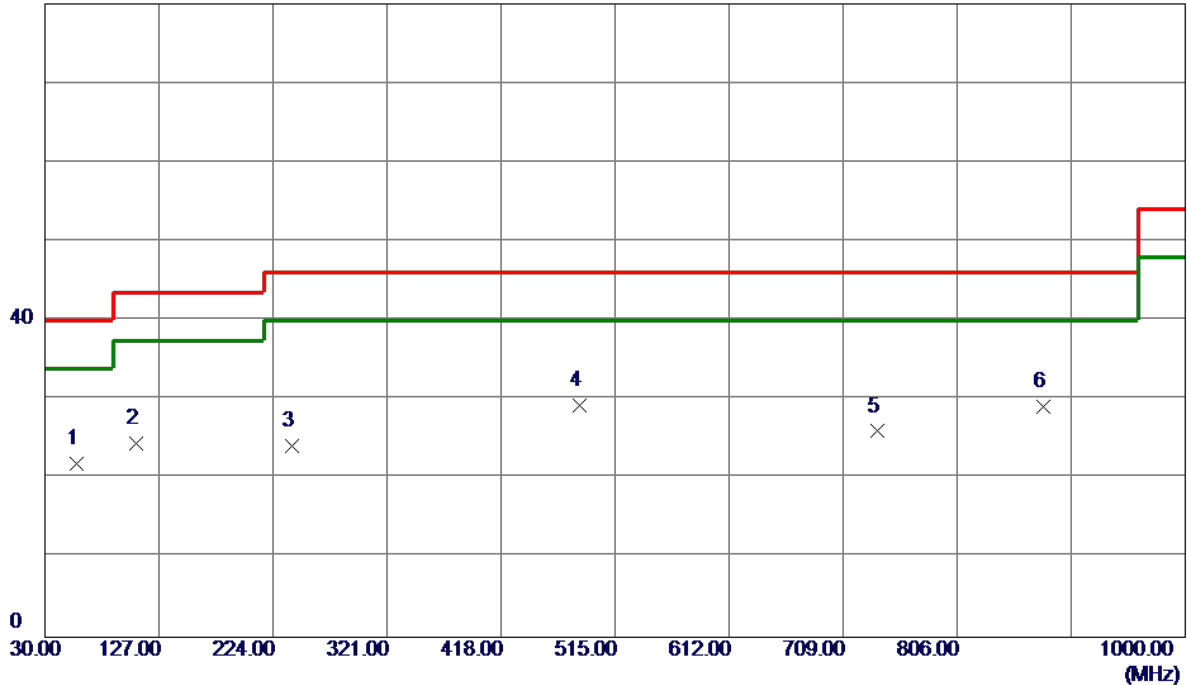
### REMARKS:

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

Test Mode: TX N20 Mode Channel 06

## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	36.35	-14.42	21.93	40.00	-18.07	Peak	
2	107.6000	39.27	-14.74	24.53	43.50	-18.97	Peak	
3	240.4900	38.15	-14.05	24.10	46.00	-21.90	Peak	
4 *	484.9300	37.21	-7.87	29.34	46.00	-16.66	Peak	
5	738.1000	29.76	-3.76	26.00	46.00	-20.00	Peak	
6	879.7200	31.25	-2.06	29.19	46.00	-16.81	Peak	

### REMARKS:

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

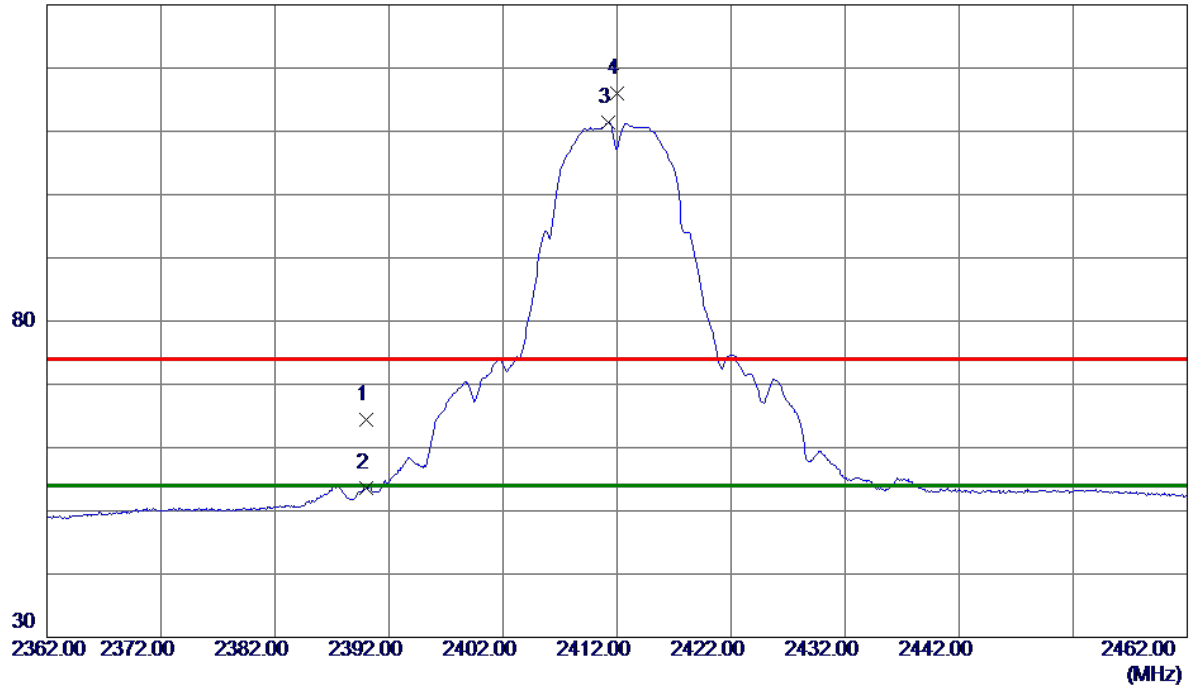
(2) Margin Level = Measurement Value - Limit Value.

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

Test Mode: TX B Mode 2412 MHz

## Vertical

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	54.36	9.95	64.31	74.00	-9.69	Peak	
2	2390.0000	43.69	9.95	53.64	54.00	-0.36	AVG	
3 *	2411.2500	101.29	10.03	111.32	54.00	57.32	AVG	No Limit
4	2412.0000	105.97	10.03	116.00	74.00	42.00	Peak	No Limit

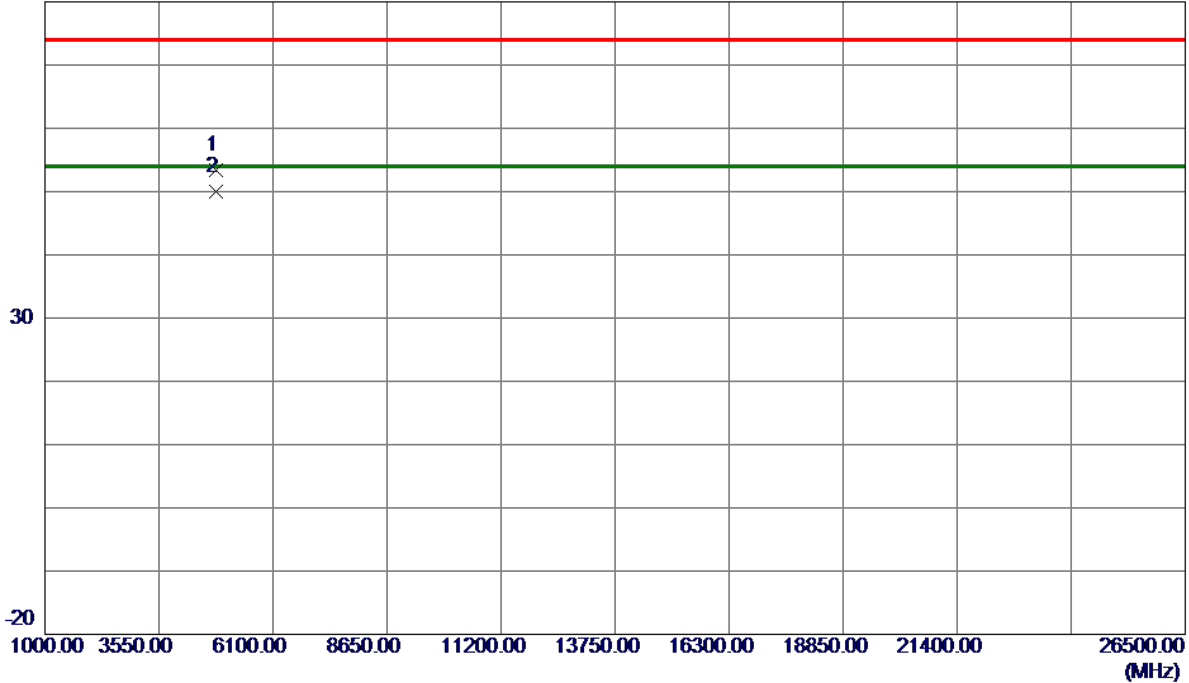
### REMARKS:

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

Test Mode:	TX B Mode 2412 MHz
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## Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8200	45.64	7.68	53.32	74.00	-20.68	Peak	
2 *	4824.0350	42.35	7.69	50.04	54.00	-3.96	AVG	

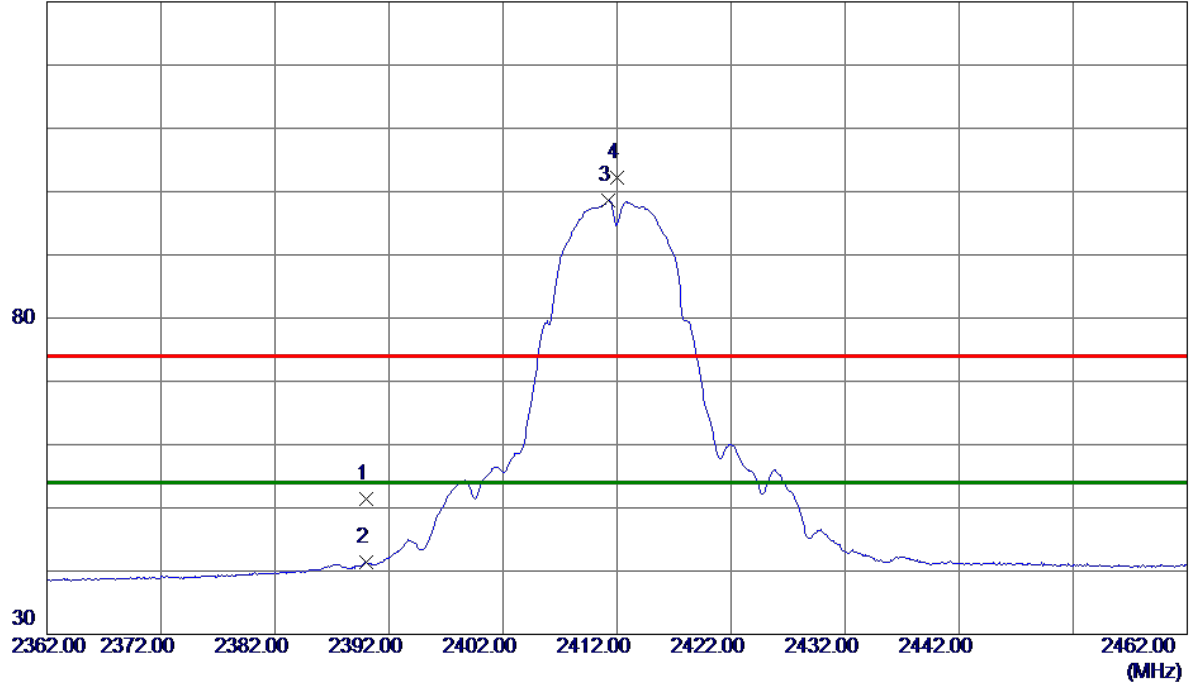
### REMARKS:

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

Test Mode: TX B Mode 2412 MHz

## Horizontal

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	41.46	9.95	51.41	74.00	-22.59	Peak	
2	2390.0000	31.39	9.95	41.34	54.00	-12.66	AVG	
3 *	2411.2500	88.49	10.03	98.52	54.00	44.52	AVG	No Limit
4	2412.0500	92.11	10.03	102.14	74.00	28.14	Peak	No Limit

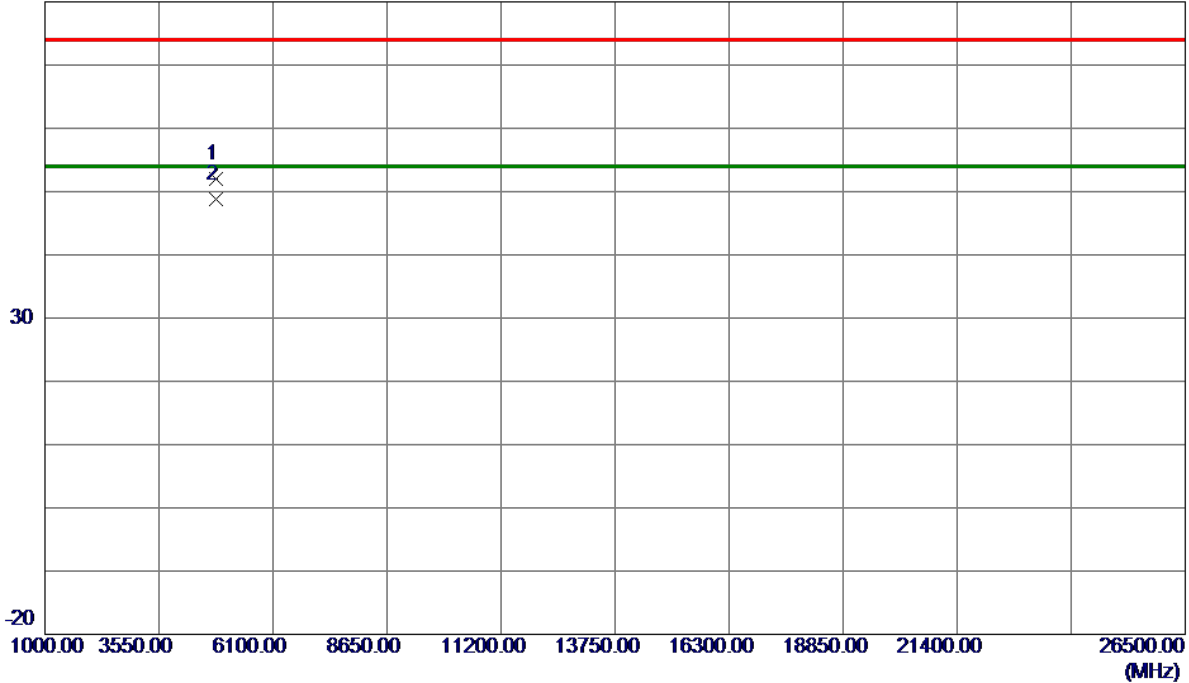
### REMARKS:

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

Test Mode:	TX B Mode 2412 MHz
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## Horizontal

80 dBuV/m



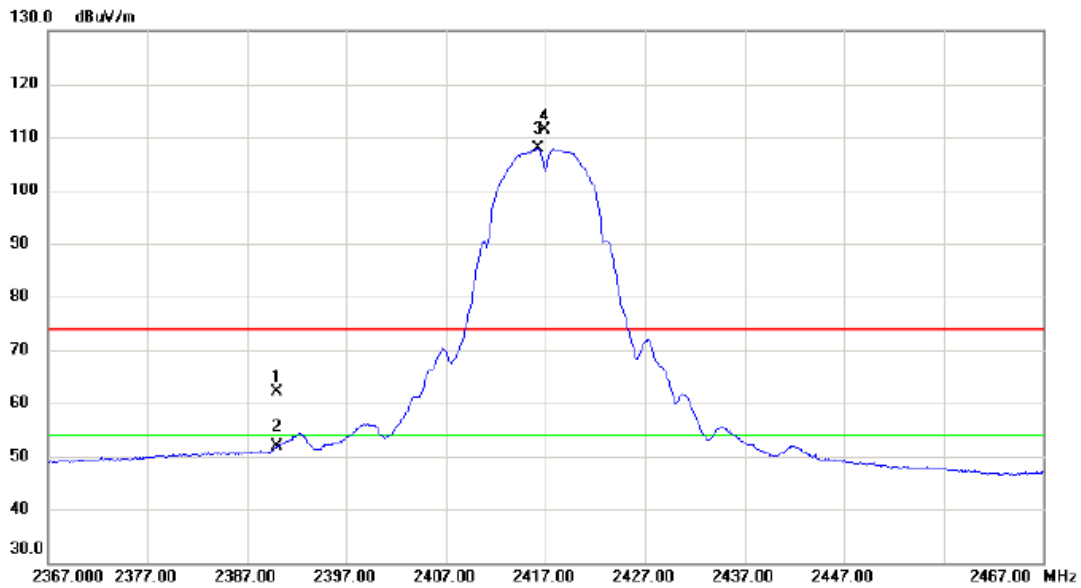
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9100	44.30	7.68	51.98	74.00	-22.02	Peak	
2 *	4823.9700	41.09	7.68	48.77	54.00	-5.23	AVG	

### REMARKS:

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

Test Mode: TX B Mode 2417 MHz

## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	52.25	9.95	62.20	74.00	-11.80	peak	
2		2390.000	41.95	9.95	51.90	54.00	-2.10	AVG	
3	*	2416.300	97.91	10.05	107.96	54.00	53.96	AVG	No Limit
4	X	2416.950	101.43	10.05	111.48	74.00	37.48	peak	No Limit

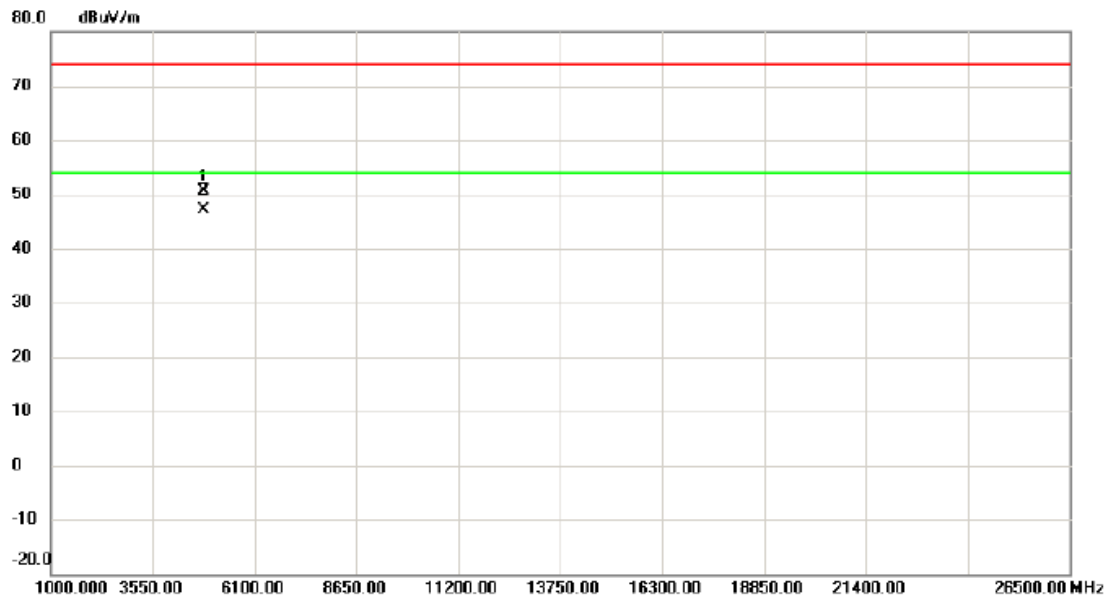
### REMARKS:

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



Test Mode:	TX B Mode 2417 MHz
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## Vertical



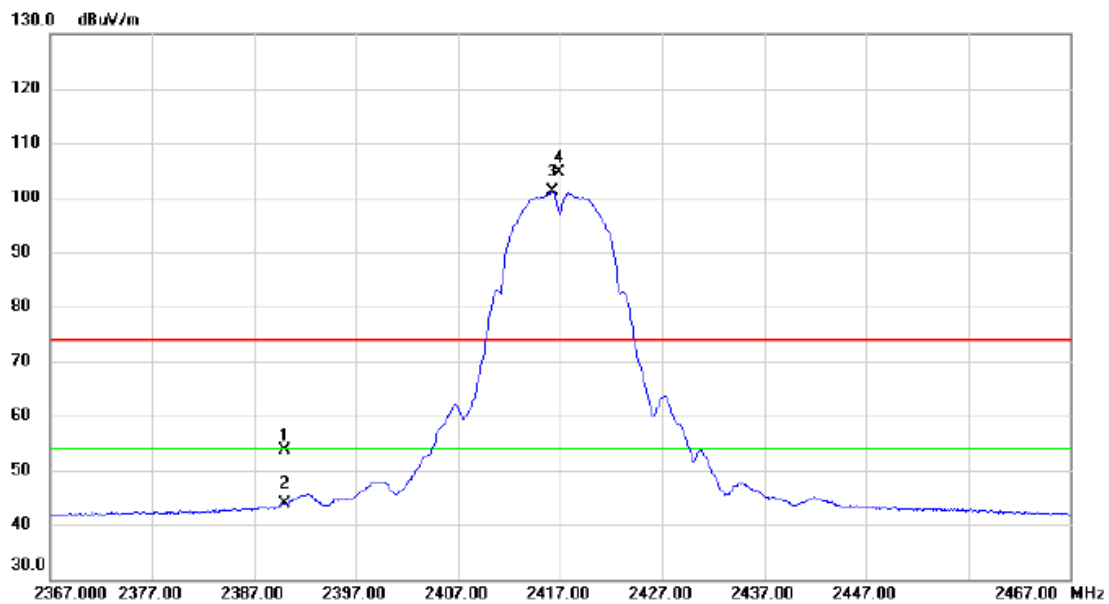
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4833.905	42.83	7.72	50.55	74.00	-23.45	peak	
2	*	4834.080	39.48	7.72	47.20	54.00	-6.80	AVG	

## REMARKS:

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

Test Mode: TX B Mode 2417 MHz

## Horizontal



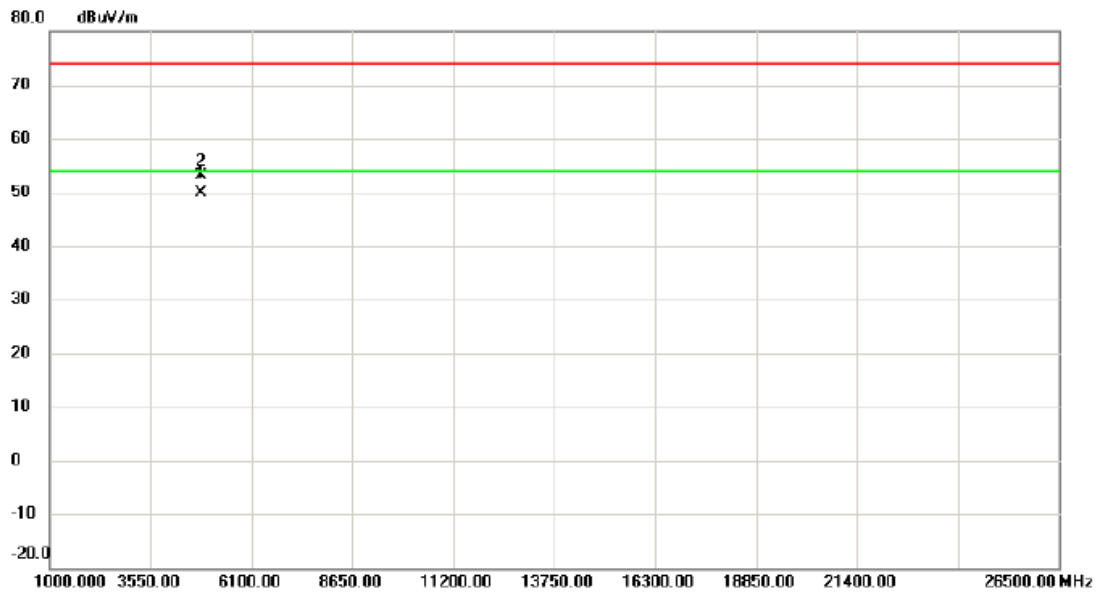
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	43.62	9.95	53.57	74.00	-20.43	peak	
2		2390.000	33.82	9.95	43.77	54.00	-10.23	AVG	
3	*	2416.300	91.00	10.05	101.05	54.00	47.05	AVG	No Limit
4	X	2416.950	94.60	10.05	104.65	74.00	30.65	peak	No Limit

### REMARKS:

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

Test Mode:	TX B Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4834.000	42.24	7.72	49.96	54.00	-4.04	AVG	
2		4834.120	45.37	7.72	53.09	74.00	-20.91	peak	

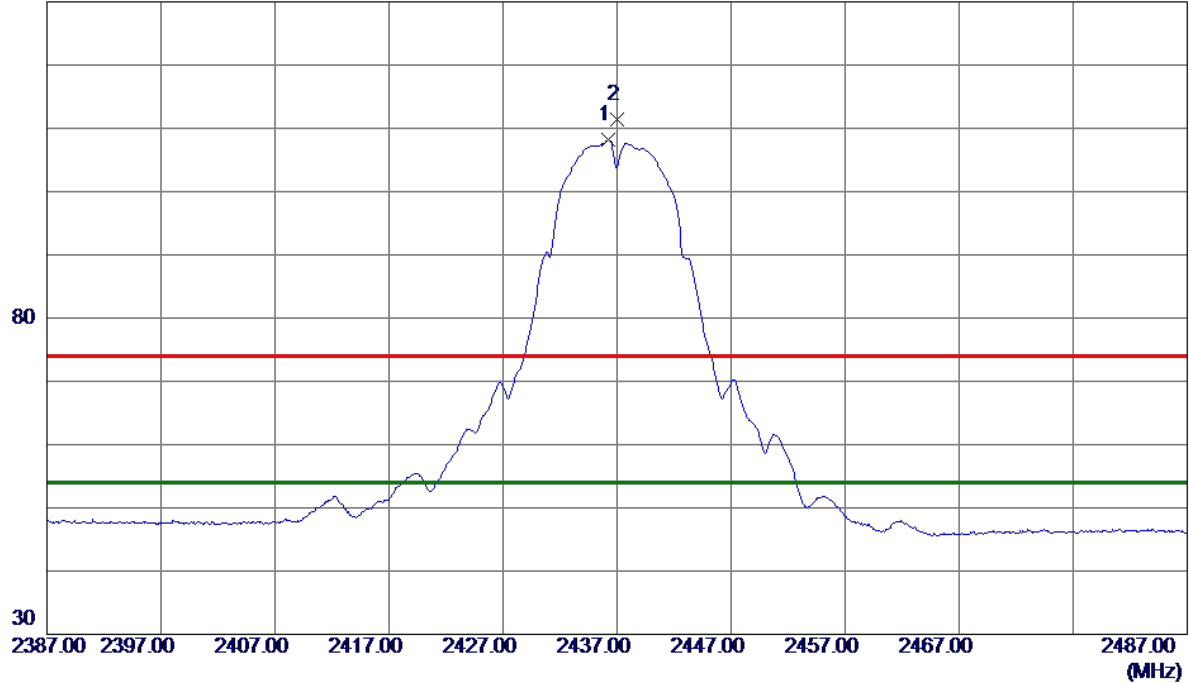
### REMARKS:

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

Test Mode: TX B Mode 2437 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 *	2436.2500	97.99	10.12	108.11	54.00	54.11	AVG	No Limit
2	2437.0000	101.25	10.12	111.37	74.00	37.37	Peak	No Limit

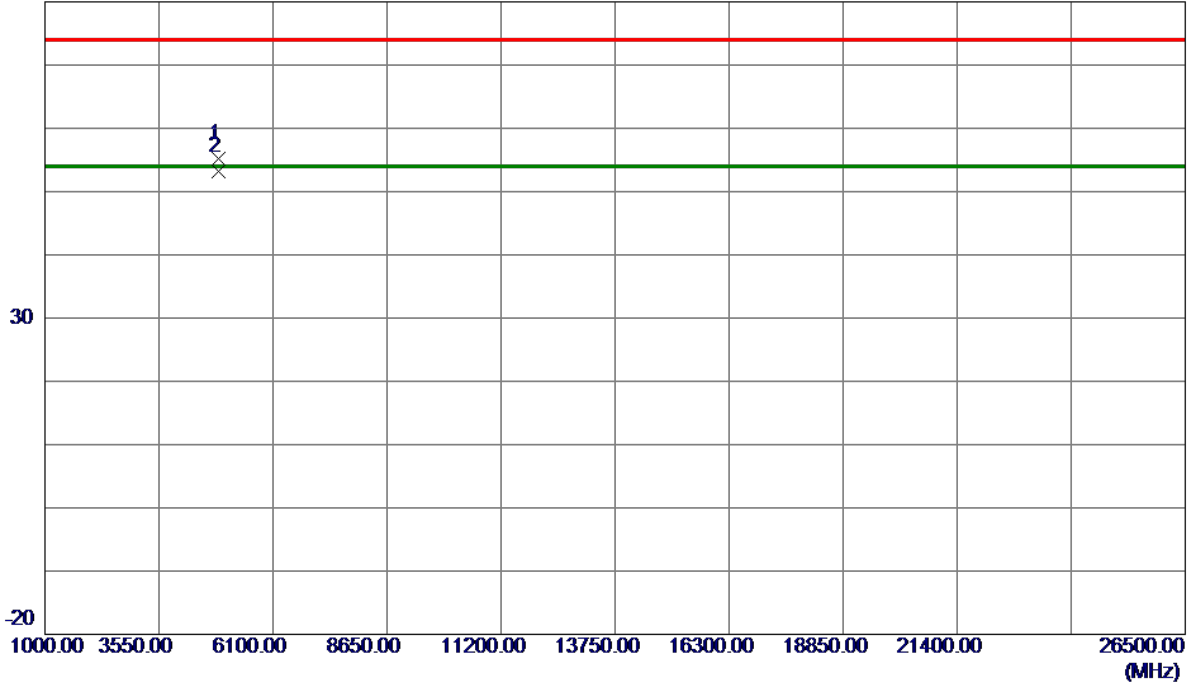
### REMARKS:

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

Test Mode:	TX B Mode 2437 MHz
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## 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	4873.8550	47.27	7.89	55.16	74.00	-18.84	Peak	
2 *	4874.0500	45.35	7.89	53.24	54.00	-0.76	AVG	

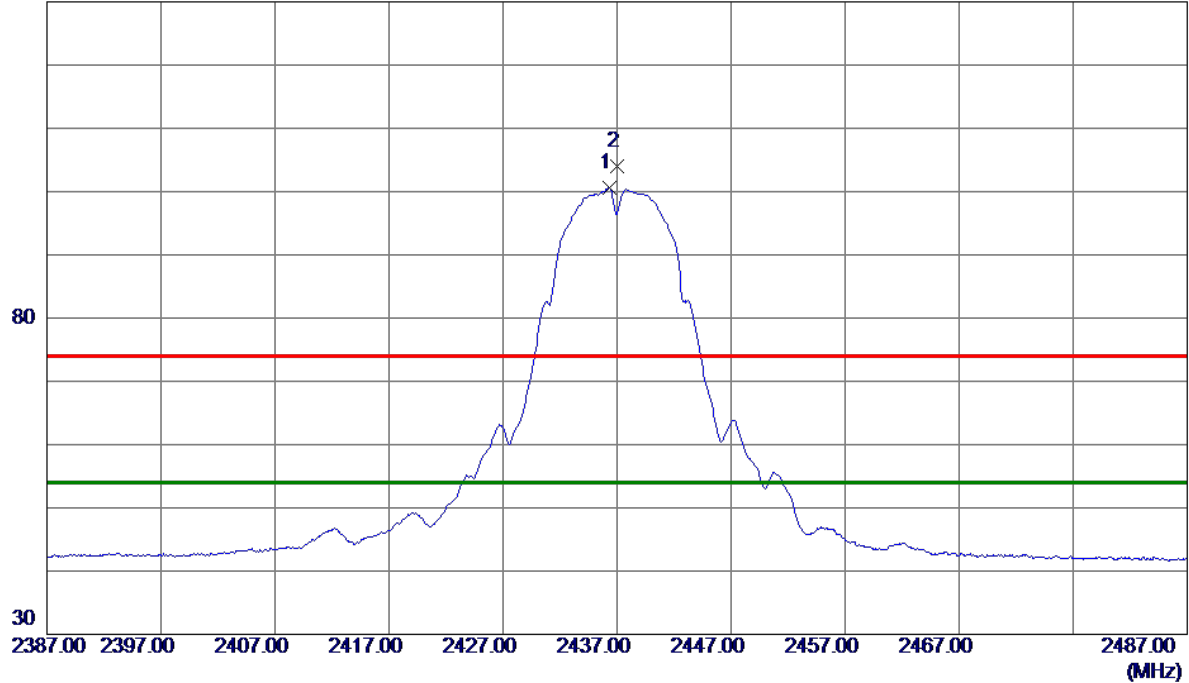
### REMARKS:

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

Test Mode: TX B Mode 2437 MHz

## Horizontal

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 *	2436.3000	90.40	10.12	100.52	54.00	46.52	AVG	No Limit
2	2437.0500	93.78	10.12	103.90	74.00	29.90	Peak	No Limit

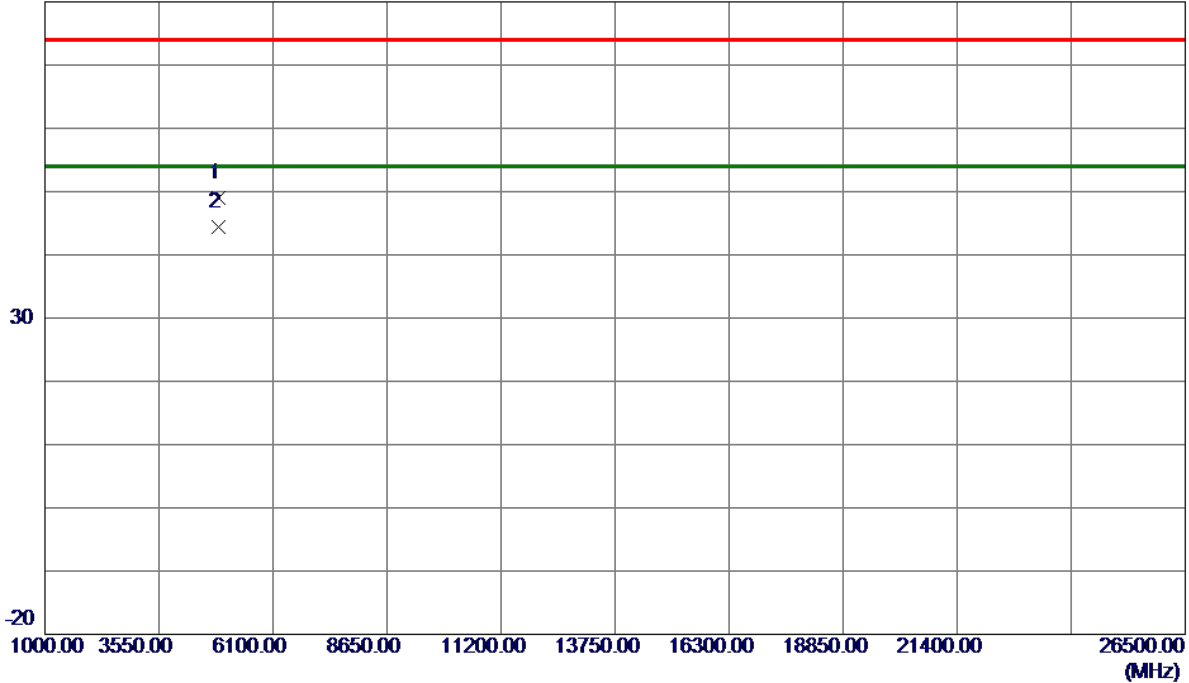
### REMARKS:

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

Test Mode:	TX B Mode 2437 MHz
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## Horizontal

80 dBuV/m



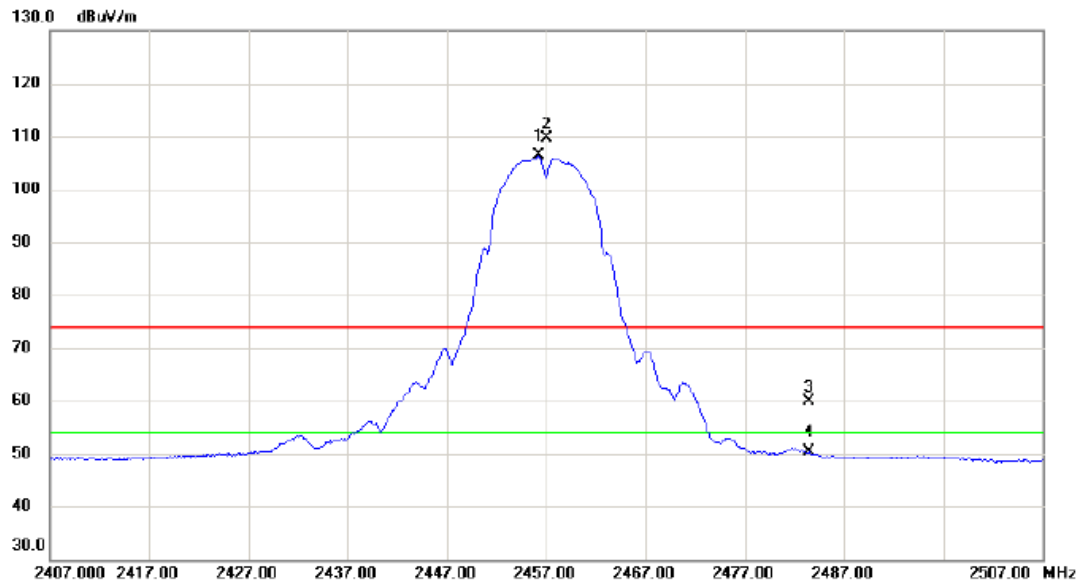
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.7300	41.04	7.89	48.93	74.00	-25.07	Peak	
2 *	4874.1000	36.42	7.89	44.31	54.00	-9.69	AVG	

### REMARKS:

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

Test Mode: TX B Mode 2457 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.300	96.13	10.19	106.32	54.00	52.32	AVG	No Limit
2	X	2457.050	99.40	10.20	109.60	74.00	35.60	peak	No Limit
3		2483.500	49.52	10.29	59.81	74.00	-14.19	peak	
4		2483.500	40.01	10.29	50.30	54.00	-3.70	AVG	

### REMARKS:

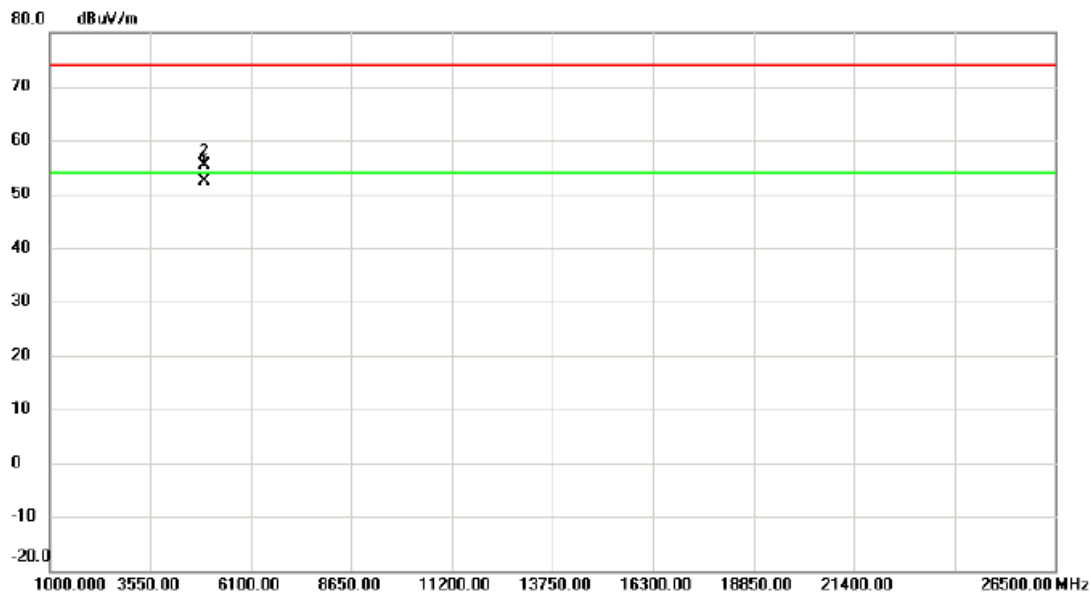
(1) Measurement Value = Reading Level + Correct Factor.

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



Test Mode:	TX B Mode 2457 MHz
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## Vertical



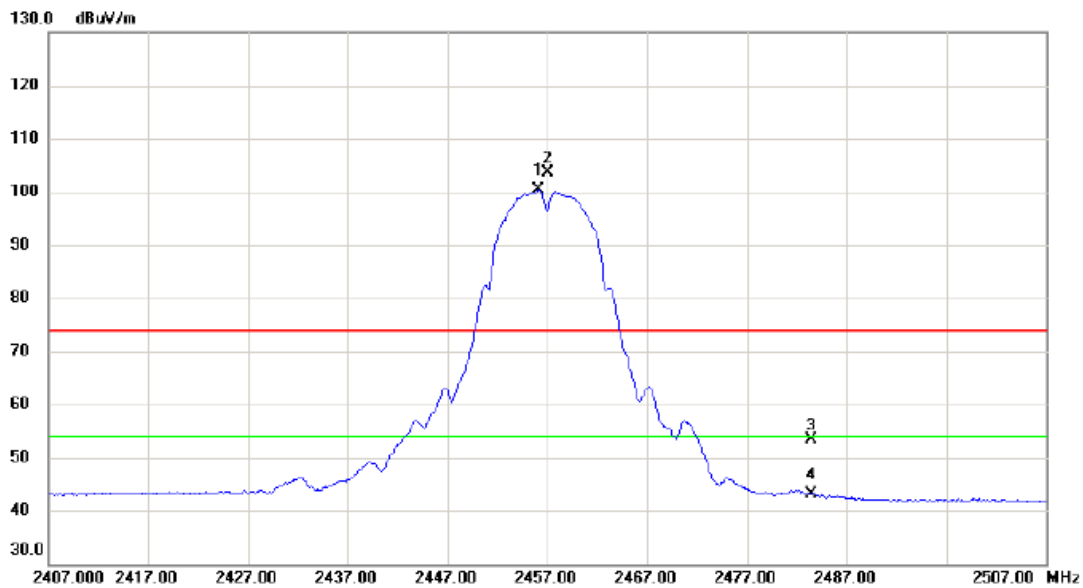
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4914.040	44.43	8.05	52.48	54.00	-1.52	AVG	
2		4914.165	47.21	8.05	55.26	74.00	-18.74	peak	

### REMARKS:

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

Test Mode: TX B Mode 2457 MHz

## Horizontal



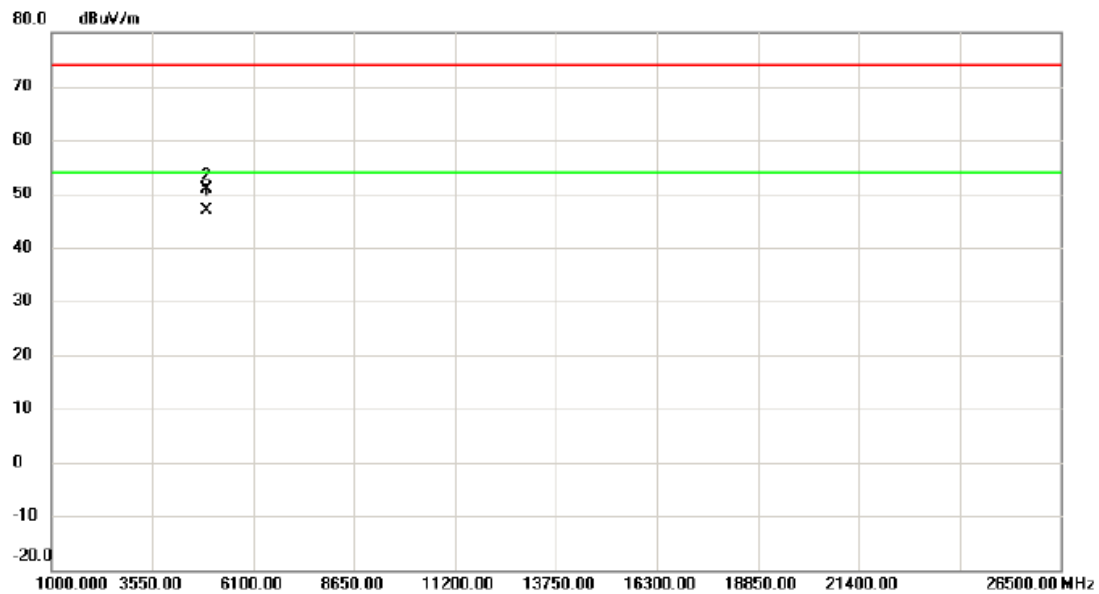
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.200	90.22	10.19	100.41	54.00	46.41	AVG	No Limit
2	X	2457.000	93.35	10.20	103.55	74.00	29.55	peak	No Limit
3		2483.500	43.11	10.29	53.40	74.00	-20.60	peak	
4		2483.500	32.88	10.29	43.17	54.00	-10.83	AVG	

### REMARKS:

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

Test Mode:	TX B Mode 2457 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4913.960	38.81	8.05	46.86	54.00	-7.14	AVG	
2		4913.970	42.77	8.05	50.82	74.00	-23.18	peak	

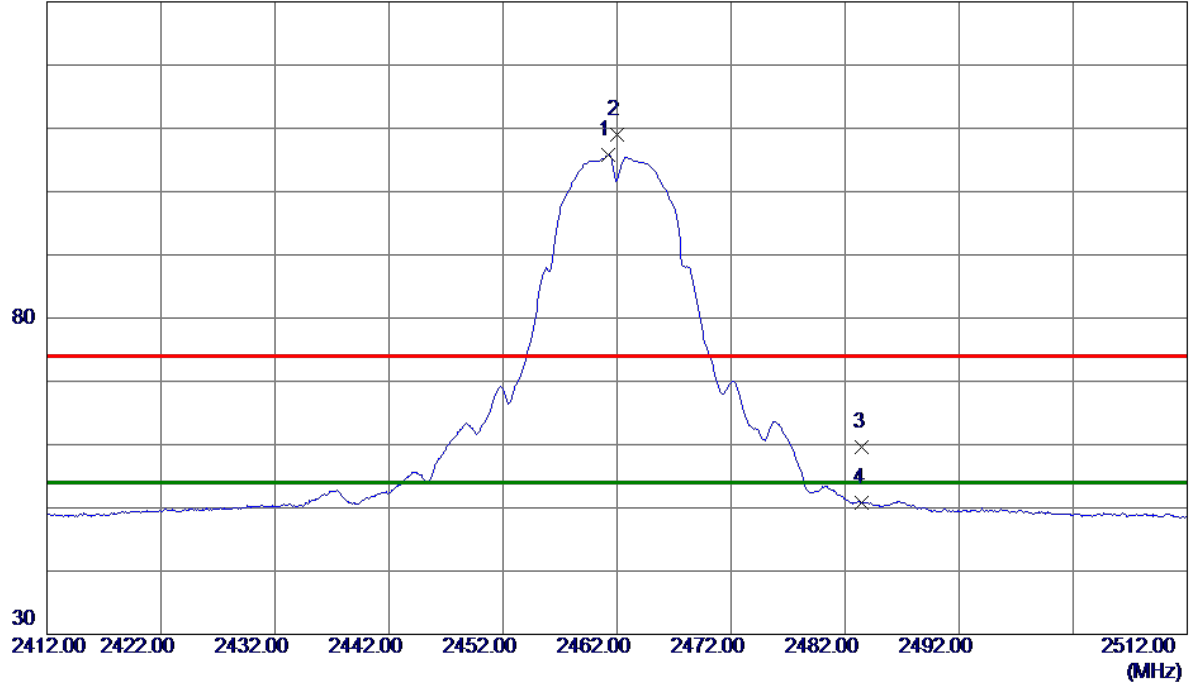
### REMARKS:

- (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 *	2461.2500	95.55	10.21	105.76	54.00	51.76	AVG	No Limit
2	2461.9500	98.83	10.22	109.05	74.00	35.05	Peak	No Limit
3	2483.5000	49.37	10.30	59.67	74.00	-14.33	Peak	
4	2483.5000	40.49	10.30	50.79	54.00	-3.21	AVG	

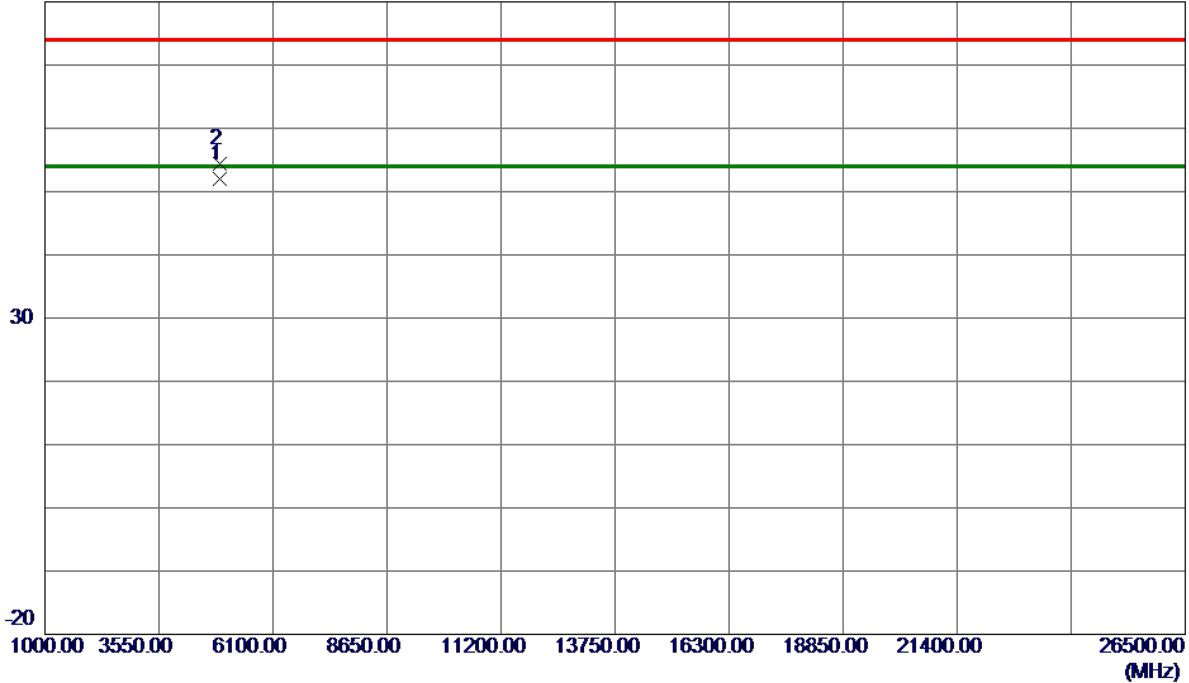
### REMARKS:

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

Test Mode:	TX B Mode 2462 MHz
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## 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 *	4923.9950	43.85	8.10	51.95	54.00	-2.05	AVG	
2	4924.0650	46.30	8.10	54.40	74.00	-19.60	Peak	

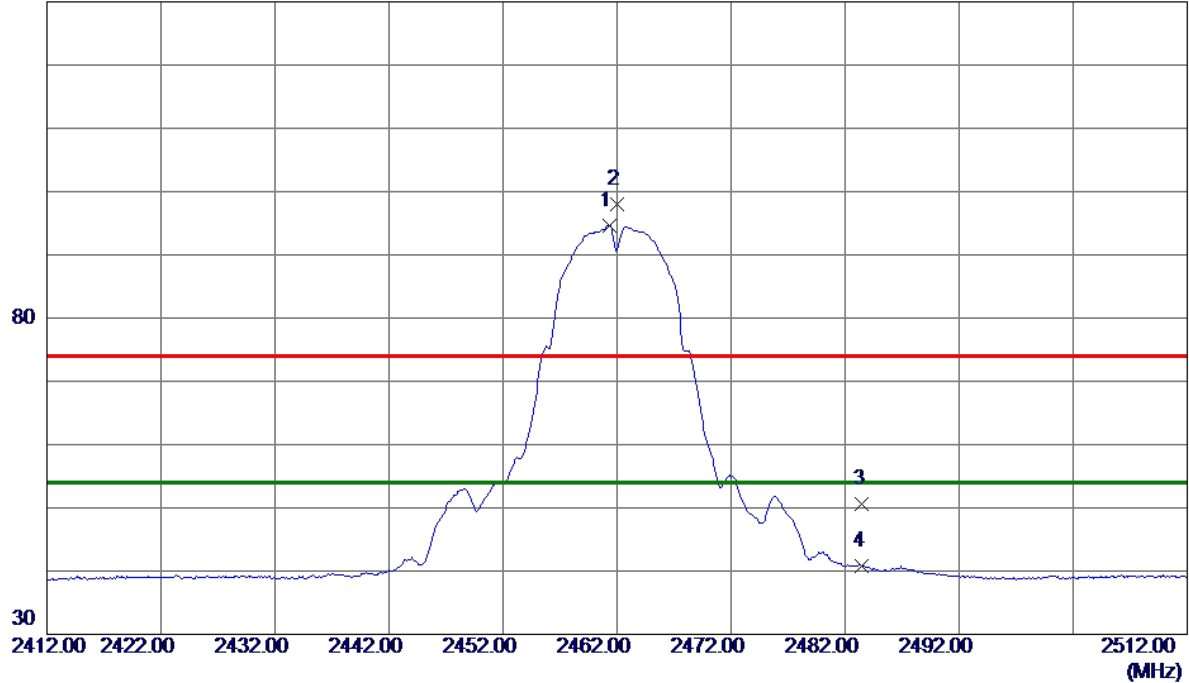
### REMARKS:

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

Test Mode: TX B Mode 2462 MHz

## Horizontal

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 *	2461.3500	84.46	10.21	94.67	54.00	40.67	AVG	No Limit
2	2462.0500	87.87	10.22	98.09	74.00	24.09	Peak	No Limit
3	2483.5000	40.35	10.30	50.65	74.00	-23.35	Peak	
4	2483.5000	30.53	10.30	40.83	54.00	-13.17	AVG	

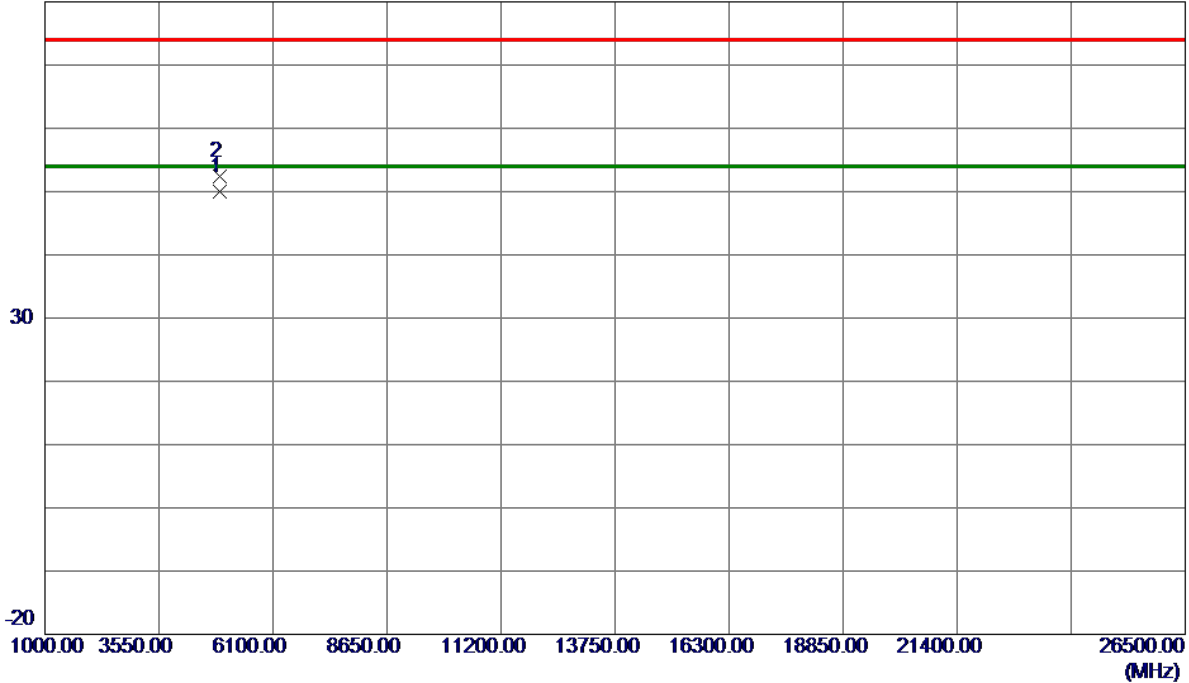
### REMARKS:

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

Test Mode:	TX B Mode 2462 MHz
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## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0099	41.98	8.10	50.08	54.00	-3.92	AVG	
2	4924.0700	44.35	8.10	52.45	74.00	-21.55	Peak	

### REMARKS:

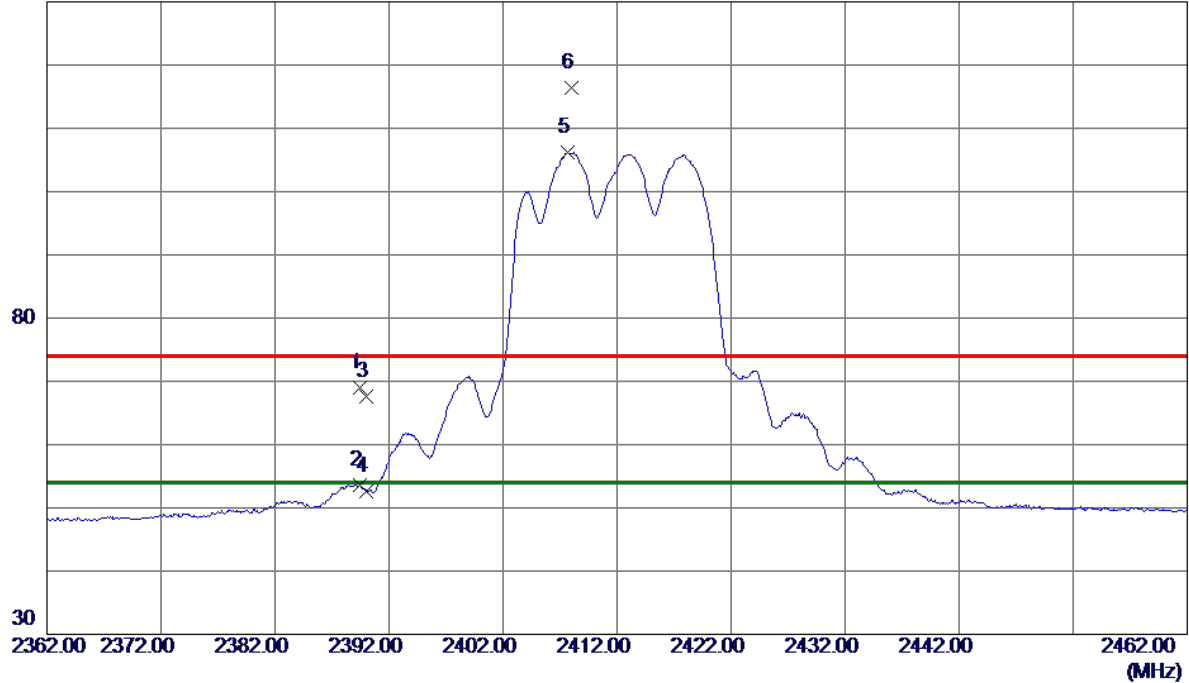
(1) Measurement Value = Reading Level + Correct Factor.

(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	2389.4500	59.10	9.94	69.04	74.00	-4.96	Peak	
2	2389.4500	43.70	9.94	53.64	54.00	-0.36	AVG	
3	2390.0000	57.70	9.95	67.65	74.00	-6.35	Peak	
4	2390.0000	42.66	9.95	52.61	54.00	-1.39	AVG	
5 *	2407.7000	96.18	10.01	106.19	54.00	52.19	AVG	No Limit
6	2408.0000	106.44	10.01	116.45	74.00	42.45	Peak	No Limit

### REMARKS:

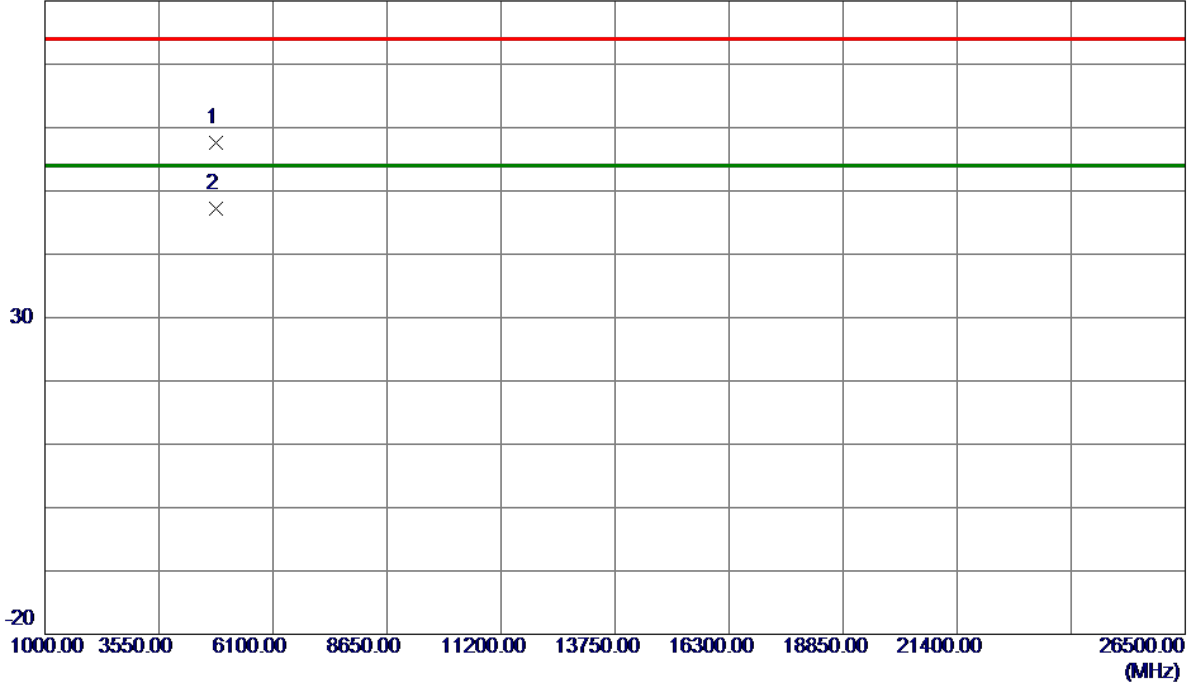
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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	4818.4500	49.95	7.66	57.61	74.00	-16.39	Peak	
2 *	4823.2750	39.60	7.68	47.28	54.00	-6.72	AVG	

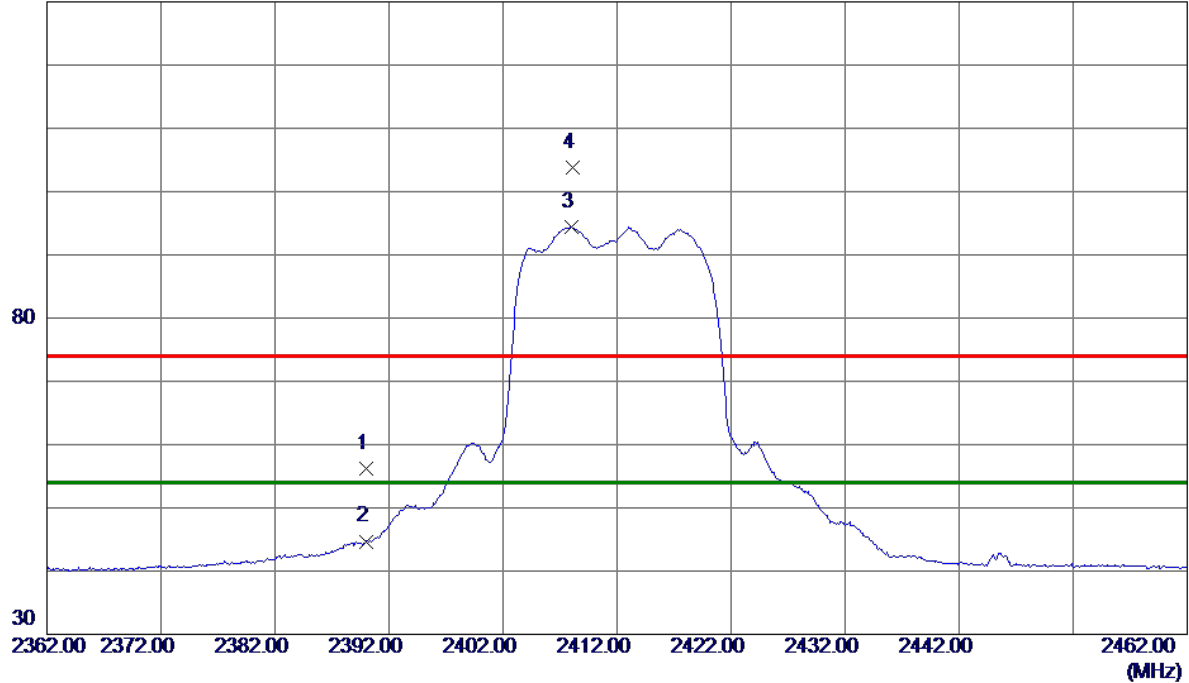
### REMARKS:

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

Test Mode: TX G Mode 2412 MHz

## Horizontal

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	46.32	9.95	56.27	74.00	-17.73	Peak	
2	2390.0000	34.75	9.95	44.70	54.00	-9.30	AVG	
3 *	2407.9500	84.39	10.01	94.40	54.00	40.40	AVG	No Limit
4	2408.1000	93.74	10.01	103.75	74.00	29.75	Peak	No Limit

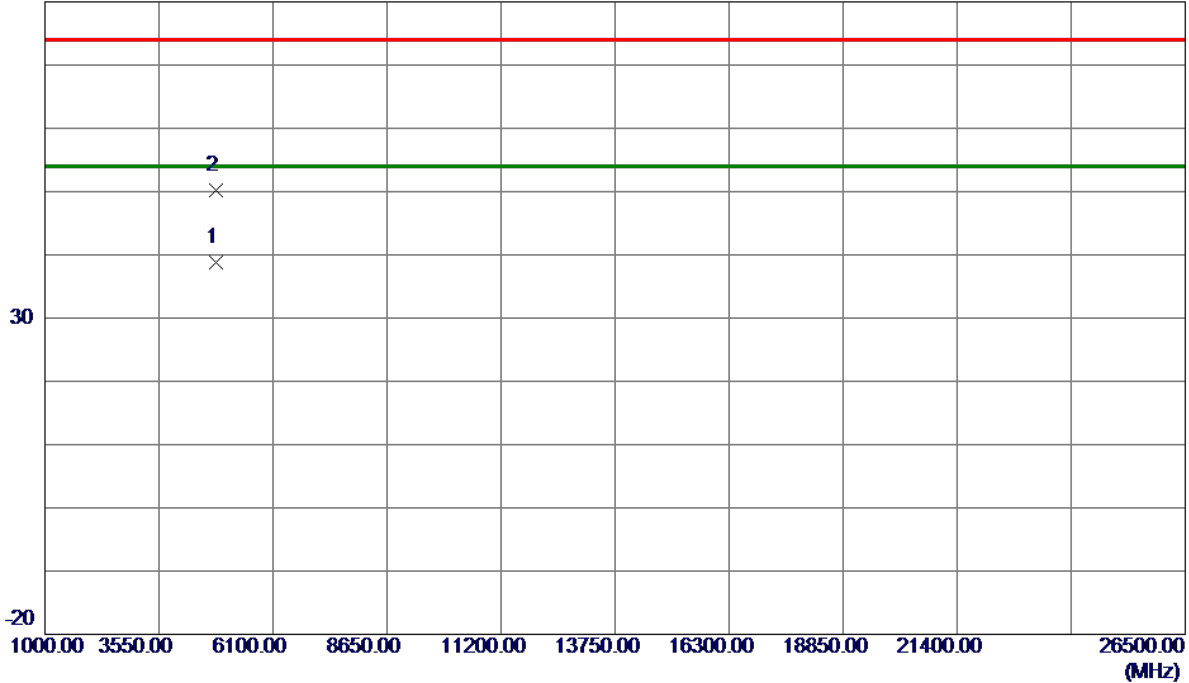
### REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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## Horizontal

80 dBuV/m



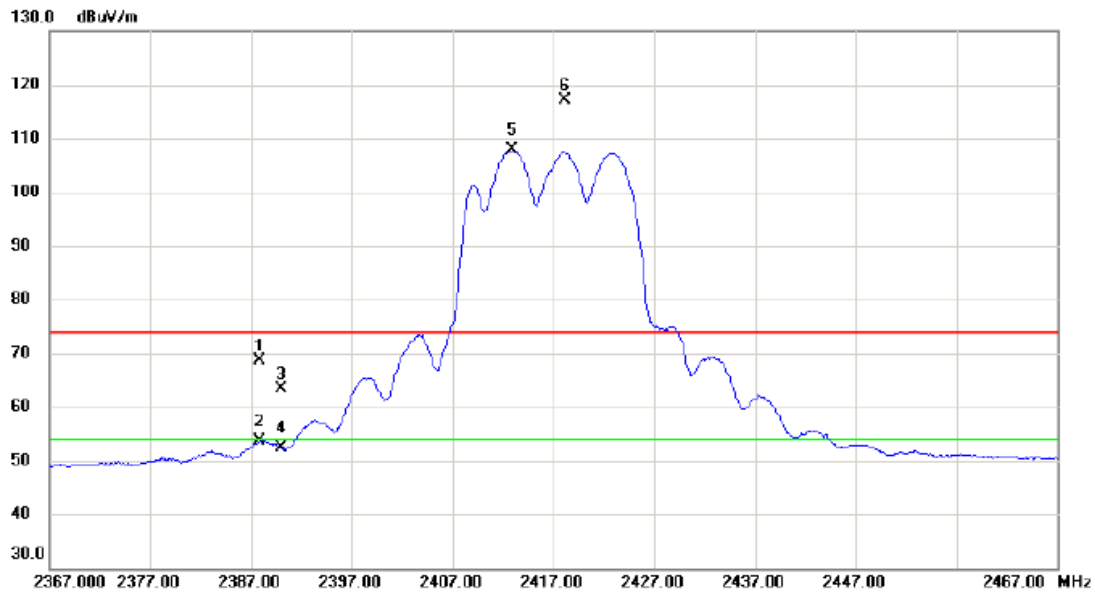
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.6700	31.05	7.68	38.73	54.00	-15.27	AVG	
2	4824.6300	42.50	7.69	50.19	74.00	-23.81	Peak	

### REMARKS:

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

Test Mode: TX G Mode 2417 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.850	58.62	9.94	68.56	74.00	-5.44	peak	
2		2387.850	43.70	9.94	53.64	54.00	-0.36	AVG	
3		2390.000	53.32	9.95	63.27	74.00	-10.73	peak	
4		2390.000	42.36	9.95	52.31	54.00	-1.69	AVG	
5	*	2412.950	97.83	10.04	107.87	54.00	53.87	AVG	No Limit
6	X	2418.150	107.00	10.06	117.06	74.00	43.06	peak	No Limit

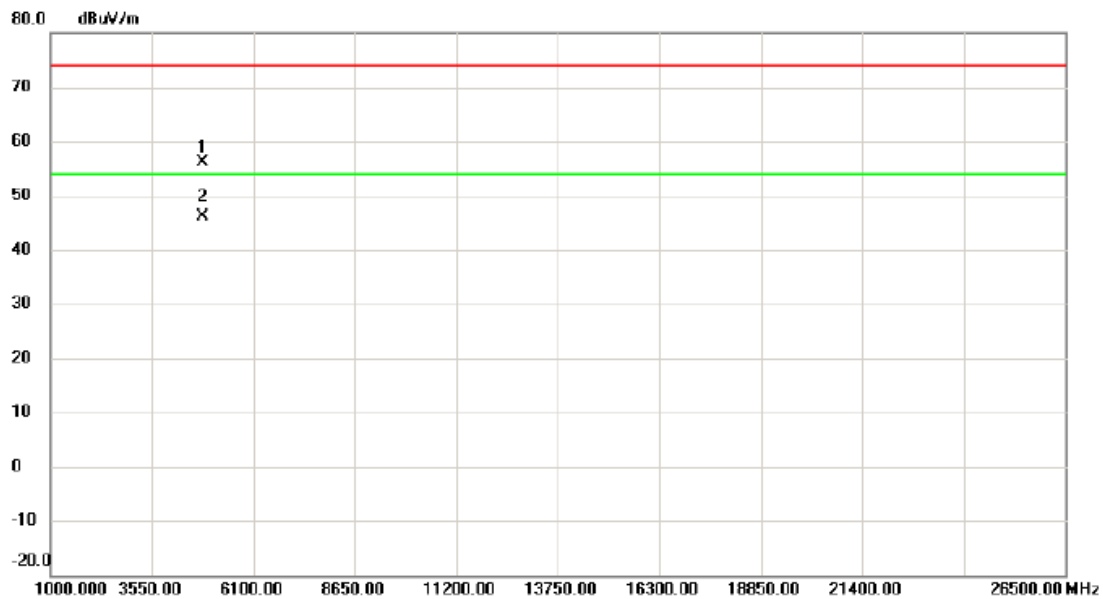
### REMARKS:

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

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

Test Mode:	TX G Mode 2417 MHz
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## Vertical



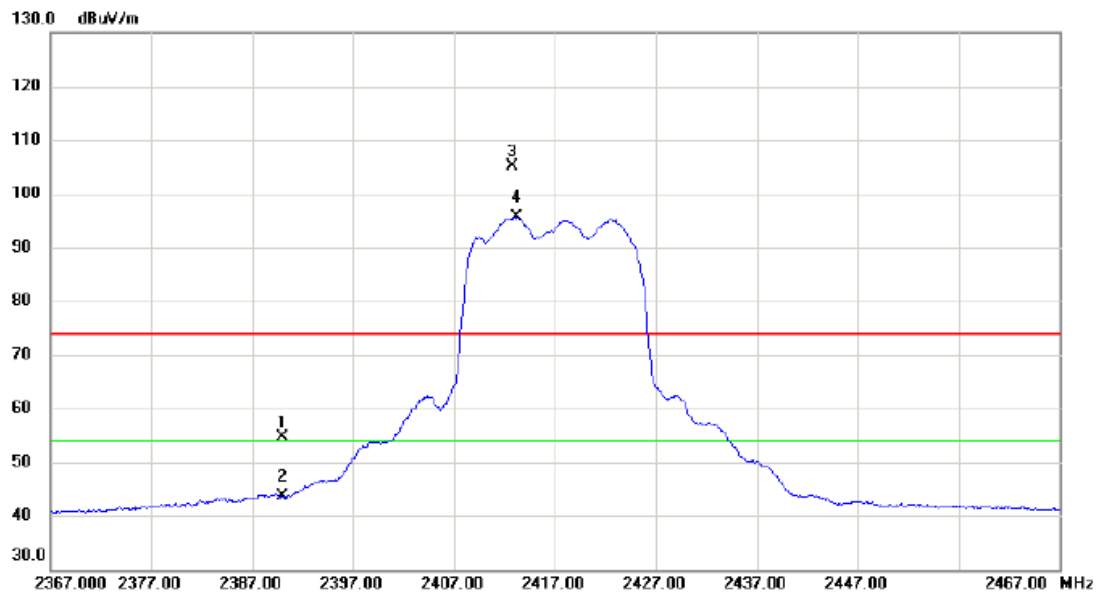
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4833.325	48.48	7.72	56.20	74.00	-17.80	peak	
2	*	4833.425	38.45	7.72	46.17	54.00	-7.83	AVG	

### REMARKS:

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

Test Mode: TX G Mode 2417 MHz

## Horizontal



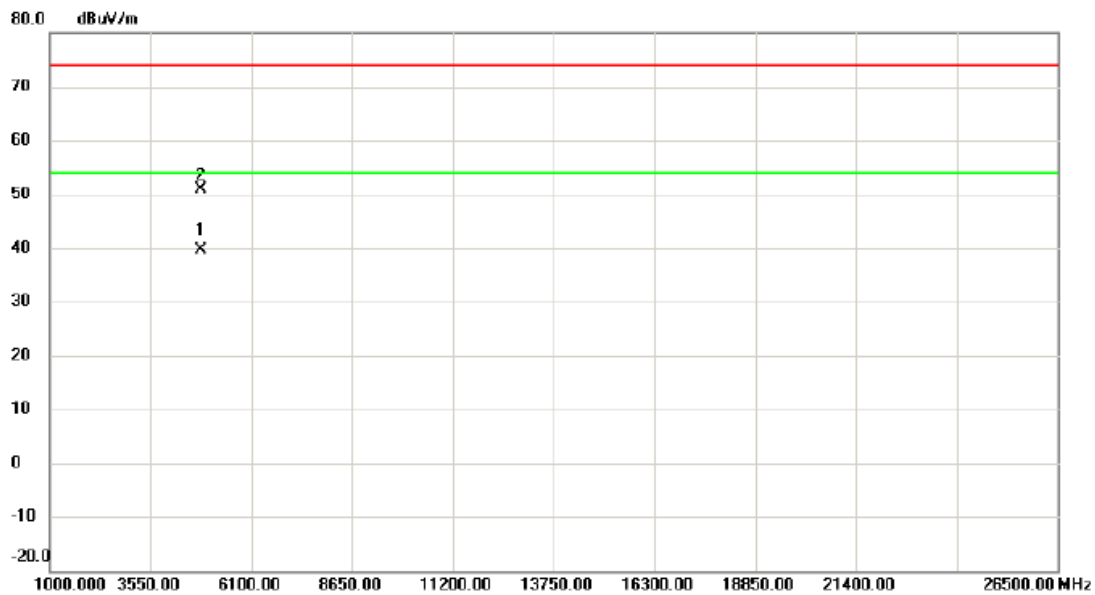
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	44.75	9.95	54.70	74.00	-19.30	peak	
2		2390.000	33.68	9.95	43.63	54.00	-10.37	AVG	
3	X	2412.750	95.03	10.04	105.07	74.00	31.07	peak	No Limit
4	*	2413.150	85.55	10.04	95.59	54.00	41.59	AVG	No Limit

### REMARKS:

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

Test Mode:	TX G Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.730	31.80	7.72	39.52	54.00	-14.48	AVG	
2		4838.730	43.12	7.75	50.87	74.00	-23.13	peak	

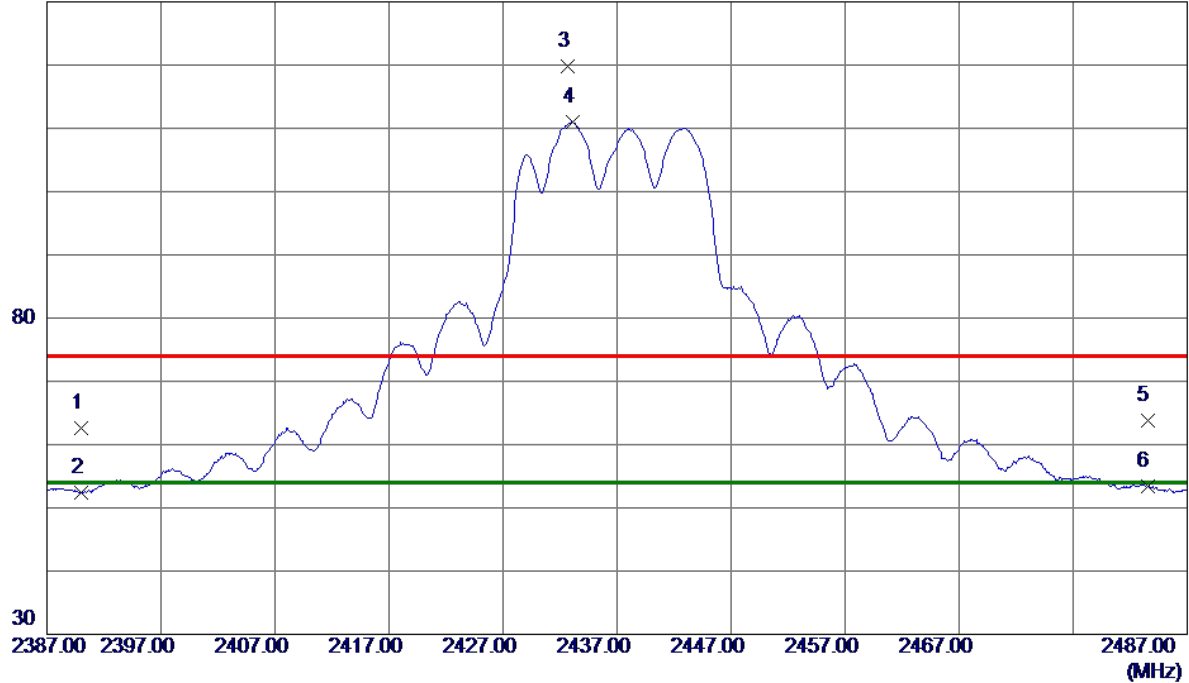
### REMARKS:

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

Test Mode: TX G Mode 2437 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	52.63	9.95	62.58	74.00	-11.42	Peak	
2	2390.0000	42.37	9.95	52.32	54.00	-1.68	AVG	
3	2432.6500	109.73	10.11	119.84	74.00	45.84	Peak	No Limit
4 *	2433.1000	100.96	10.11	111.07	54.00	57.07	AVG	No Limit
5	2483.5000	53.48	10.30	63.78	74.00	-10.22	Peak	
6	2483.5000	43.14	10.30	53.44	54.00	-0.56	AVG	

### REMARKS:

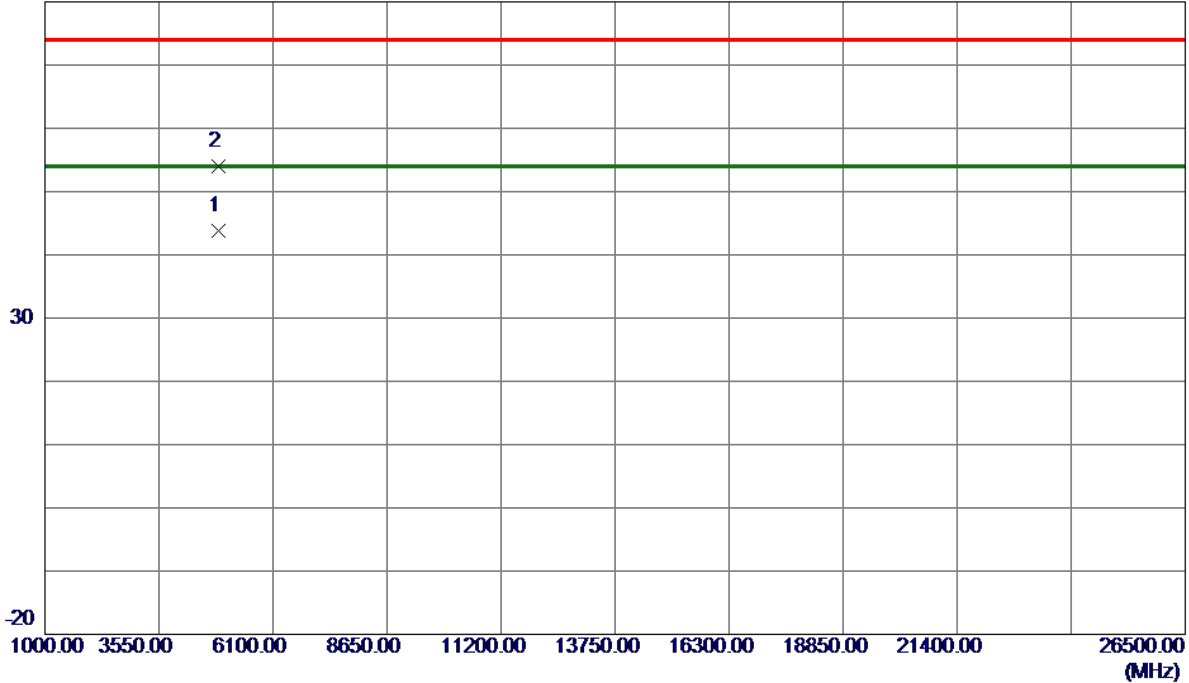
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode:	TX G Mode 2437 MHz
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## Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0250	35.94	7.89	43.83	54.00	-10.17	AVG	
2	4878.5500	46.00	7.91	53.91	74.00	-20.09	Peak	

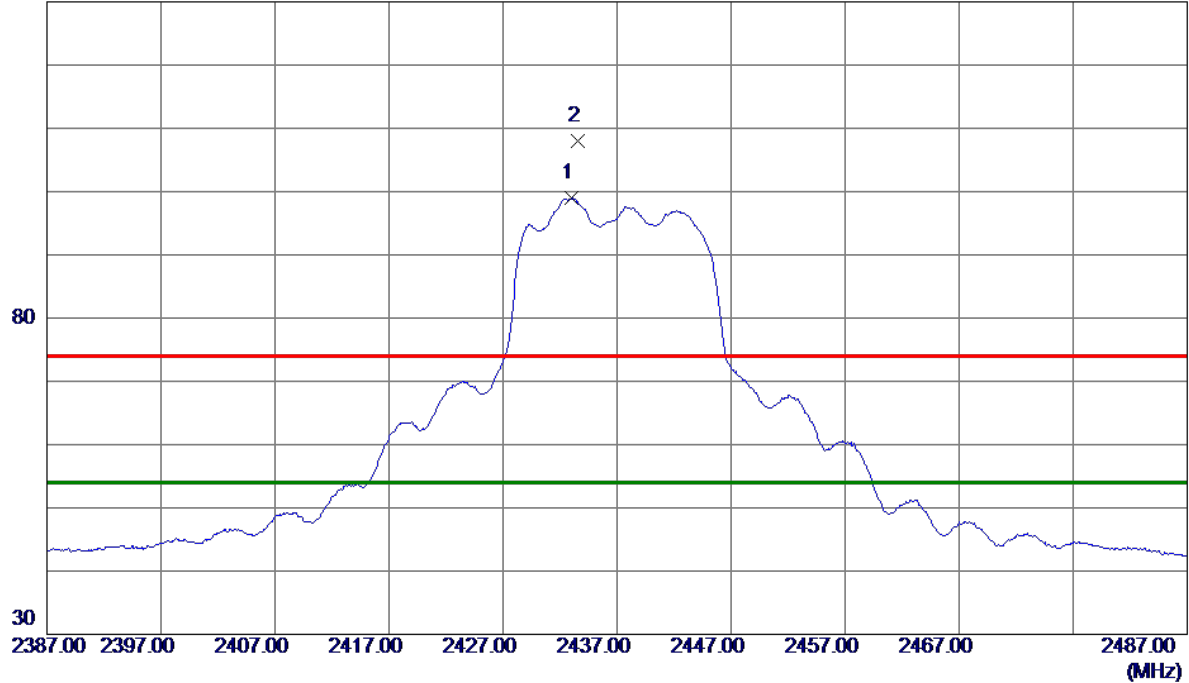
### REMARKS:

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

Test Mode: TX G Mode 2437 MHz

## Horizontal

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 *	2433.0500	88.90	10.11	99.01	54.00	45.01	AVG	No Limit
2	2433.5500	97.97	10.11	108.08	74.00	34.08	Peak	No Limit

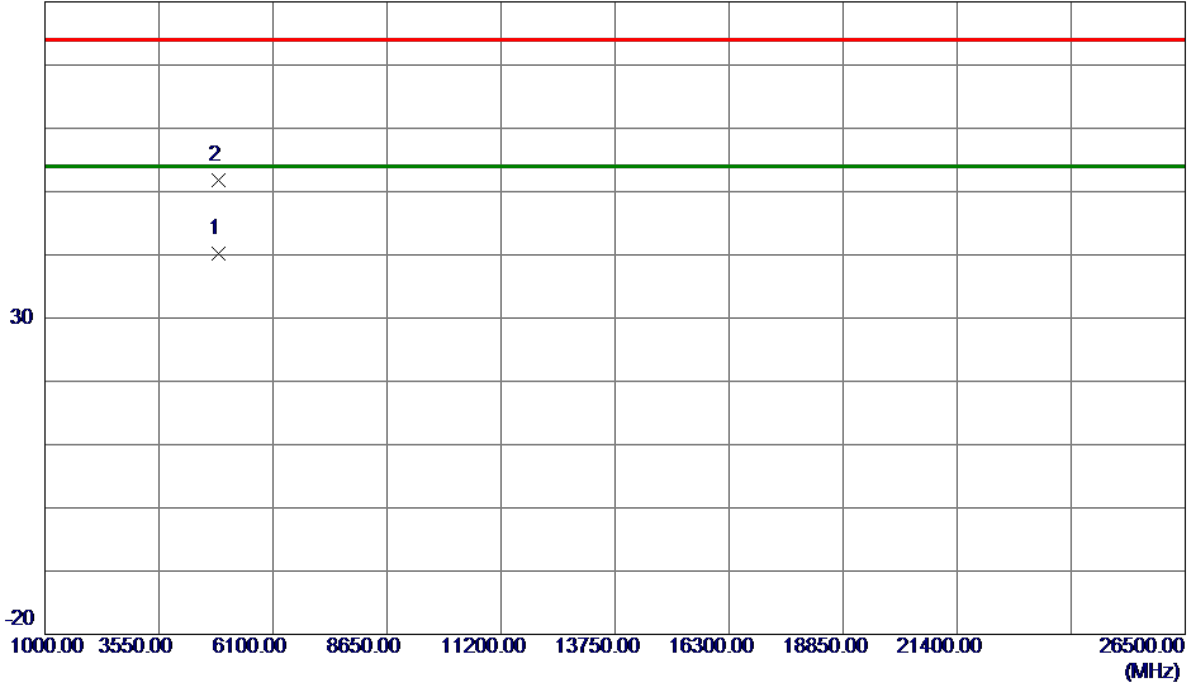
### REMARKS:

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

Test Mode:	TX G Mode 2437 MHz
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## Horizontal

80 dBuV/m



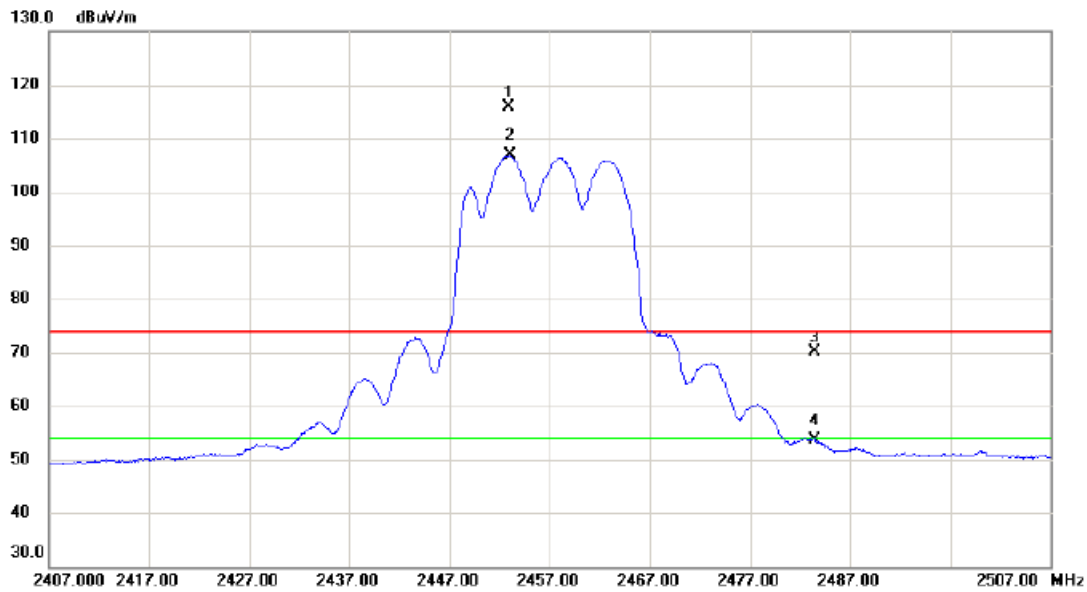
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.5600	32.39	7.89	40.28	54.00	-13.72	AVG	
2	4875.0400	43.88	7.90	51.78	74.00	-22.22	Peak	

### REMARKS:

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

Test Mode: TX G Mode 2457 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2452.900	105.81	10.19	116.00	74.00	42.00	peak	No Limit
2	*	2453.050	96.67	10.19	106.86	54.00	52.86	AVG	No Limit
3		2483.500	59.85	10.29	70.14	74.00	-3.86	peak	
4		2483.500	43.39	10.29	53.68	54.00	-0.32	AVG	

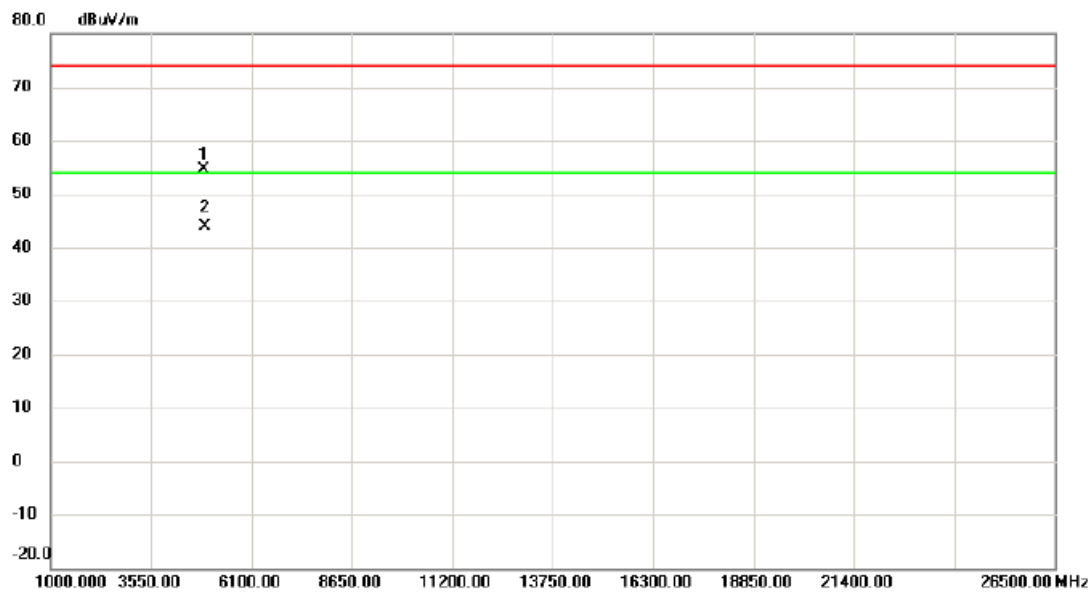
### REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4909.400	46.53	8.05	54.58	74.00	-19.42	peak	
2	*	4914.500	35.87	8.05	43.92	54.00	-10.08	AVG	

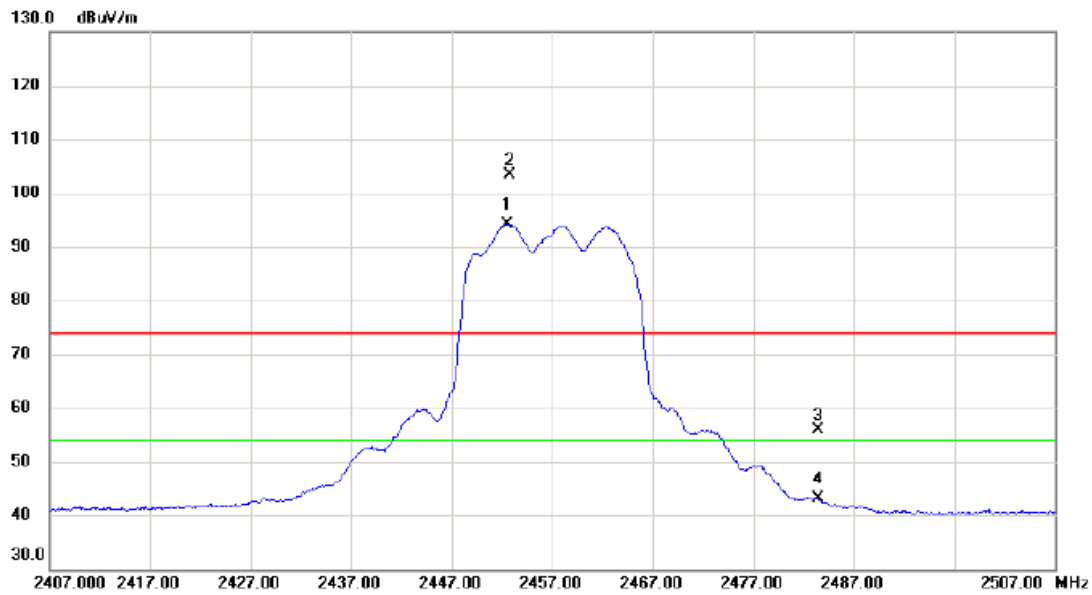
### REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

## Horizontal



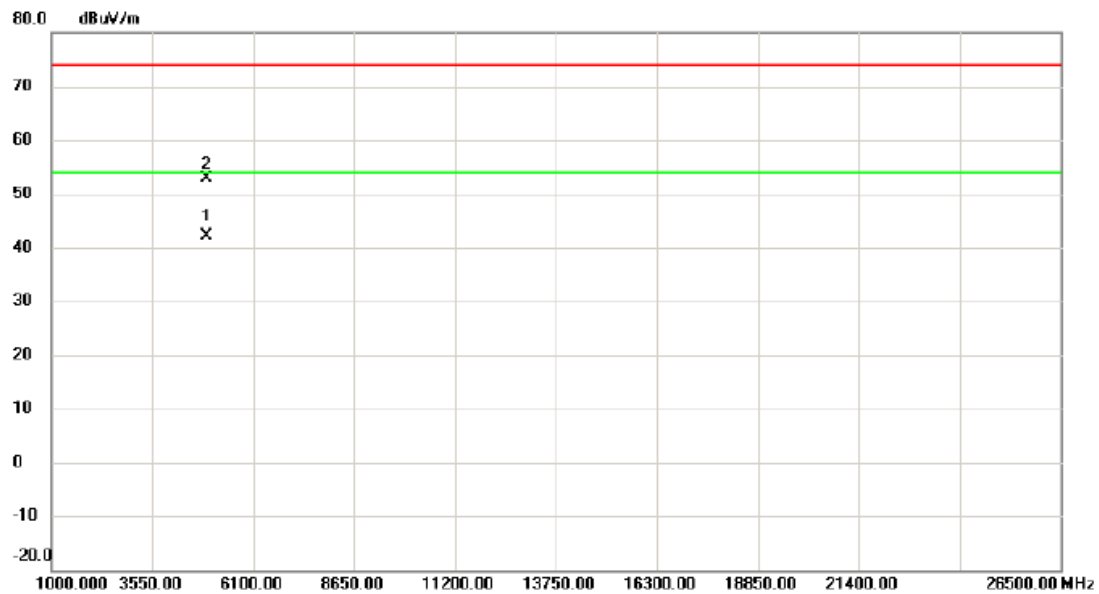
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2452.500	84.06	10.18	94.24	54.00	40.24	AVG	No Limit
2	X	2452.750	93.17	10.19	103.36	74.00	29.36	peak	No Limit
3		2483.500	45.48	10.29	55.77	74.00	-18.23	peak	
4		2483.500	32.77	10.29	43.06	54.00	-10.94	AVG	

### REMARKS:

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

Test Mode:	TX G Mode 2457 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4914.420	33.98	8.05	42.03	54.00	-11.97	AVG	
2		4914.960	44.73	8.06	52.79	74.00	-21.21	peak	

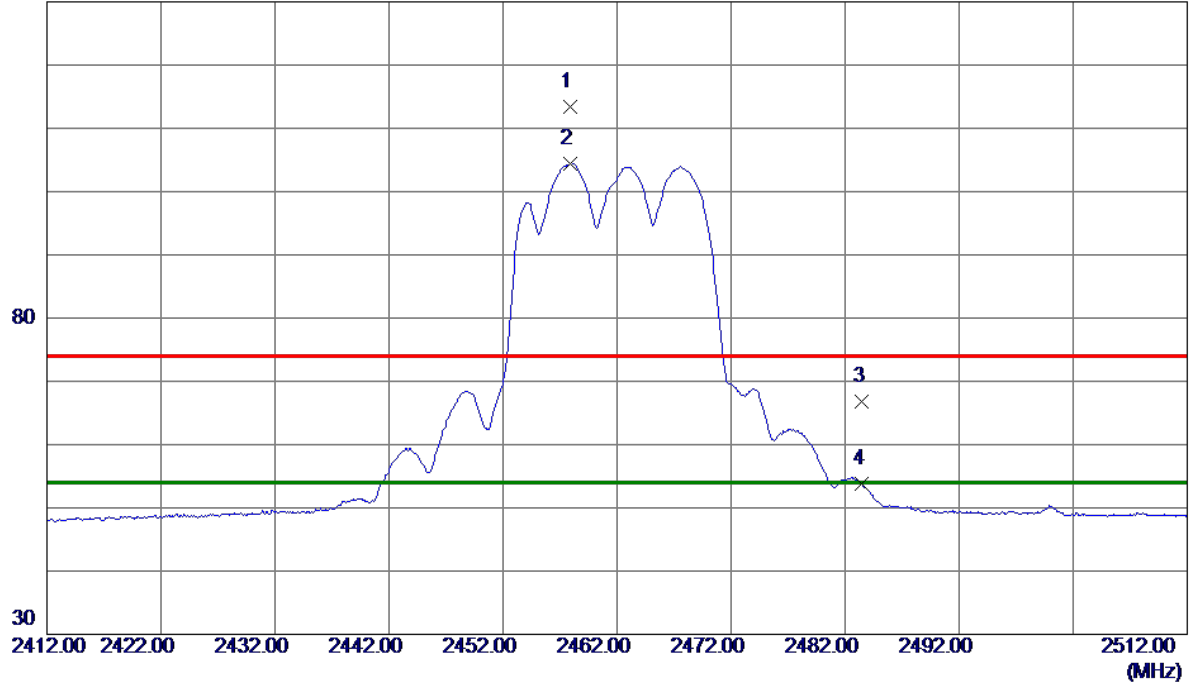
### REMARKS:

- (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	2457.8500	103.19	10.20	113.39	74.00	39.39	Peak	No Limit
2 *	2457.9000	94.20	10.20	104.40	54.00	50.40	AVG	No Limit
3	2483.5000	56.49	10.30	66.79	74.00	-7.21	Peak	
4	2483.5000	43.48	10.30	53.78	54.00	-0.22	AVG	

### REMARKS:

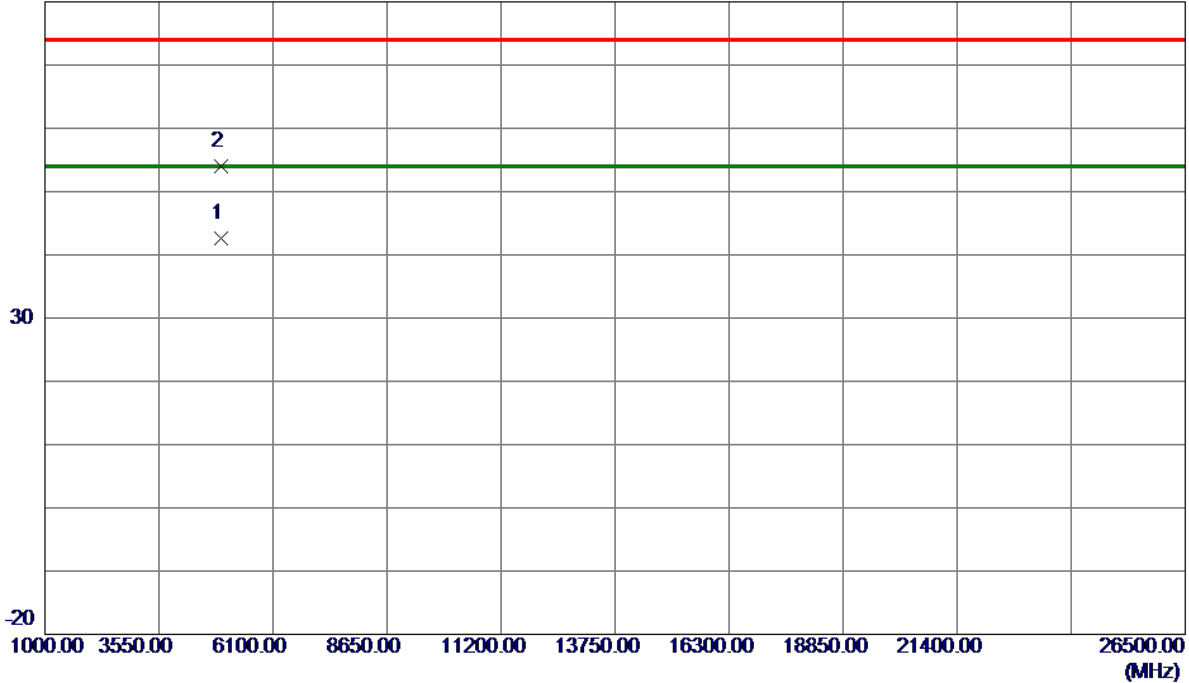
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode:	TX G Mode 2462 MHz
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## Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4000	34.58	8.10	42.68	54.00	-11.32	AVG	
2	4924.8750	45.87	8.10	53.97	74.00	-20.03	Peak	

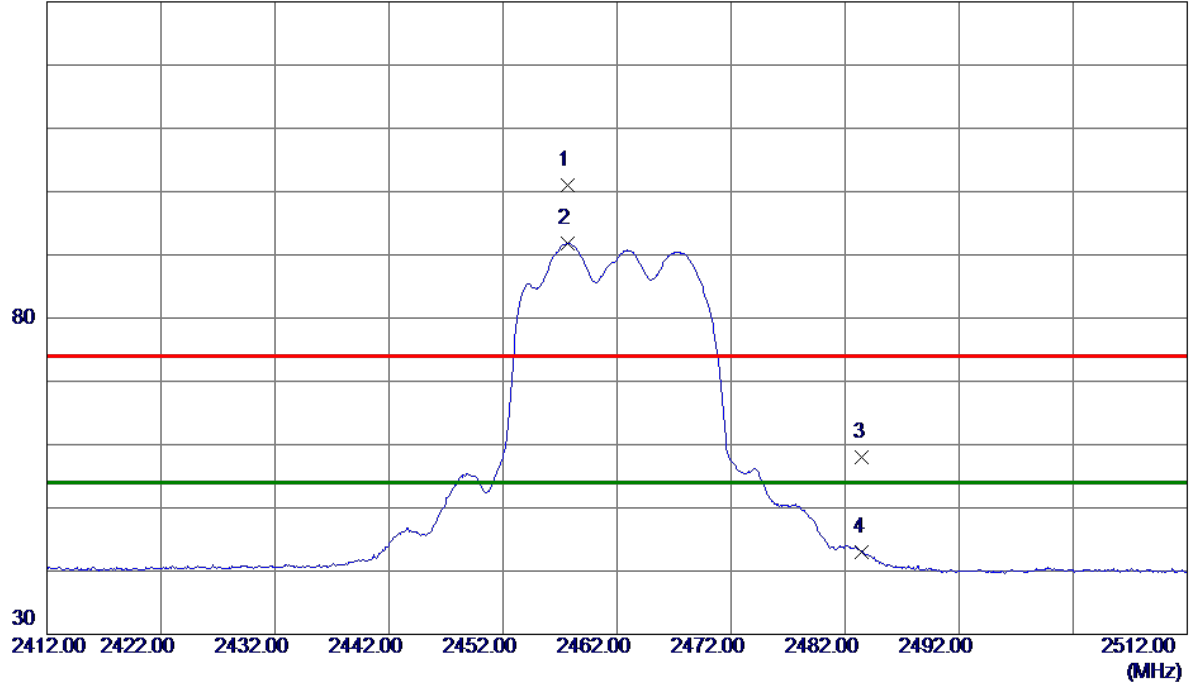
### REMARKS:

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

Test Mode: TX G Mode 2462 MHz

## Horizontal

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	2457.6500	90.86	10.20	101.06	74.00	27.06	Peak	No Limit
2 *	2457.7000	81.69	10.20	91.89	54.00	37.89	AVG	No Limit
3	2483.5000	47.77	10.30	58.07	74.00	-15.93	Peak	
4	2483.5000	32.74	10.30	43.04	54.00	-10.96	AVG	

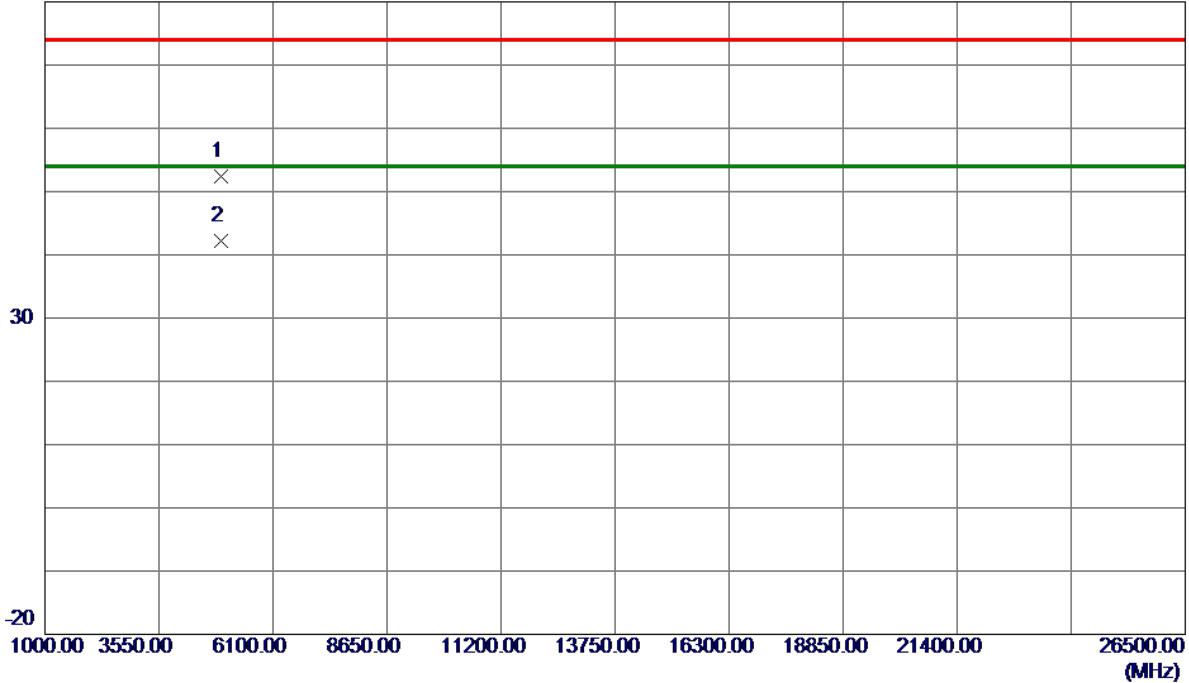
### REMARKS:

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

Test Mode:	TX G Mode 2462 MHz
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## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.2300	44.35	8.10	52.45	74.00	-21.55	Peak	
2 *	4924.7000	34.10	8.10	42.20	54.00	-11.80	AVG	

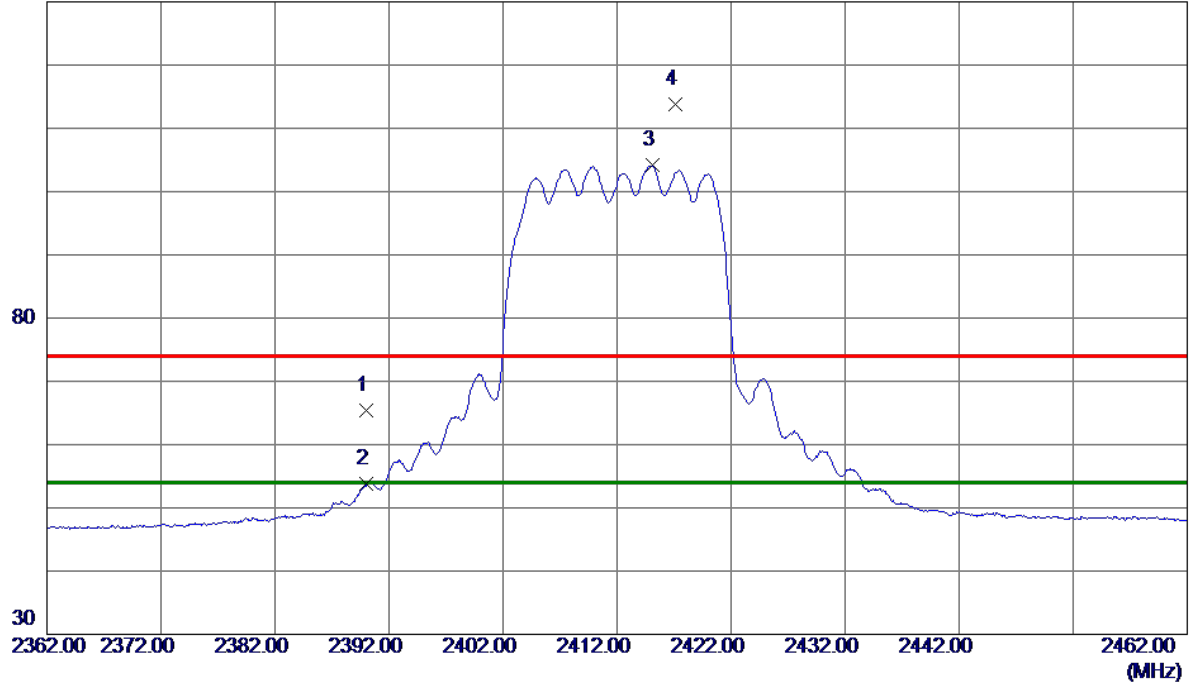
### REMARKS:

- (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	55.53	9.95	65.48	74.00	-8.52	Peak	
2	2390.0000	43.94	9.95	53.89	54.00	-0.11	AVG	
3 *	2415.1000	94.10	10.04	104.14	54.00	50.14	AVG	No Limit
4	2417.1000	103.72	10.05	113.77	74.00	39.77	Peak	No Limit

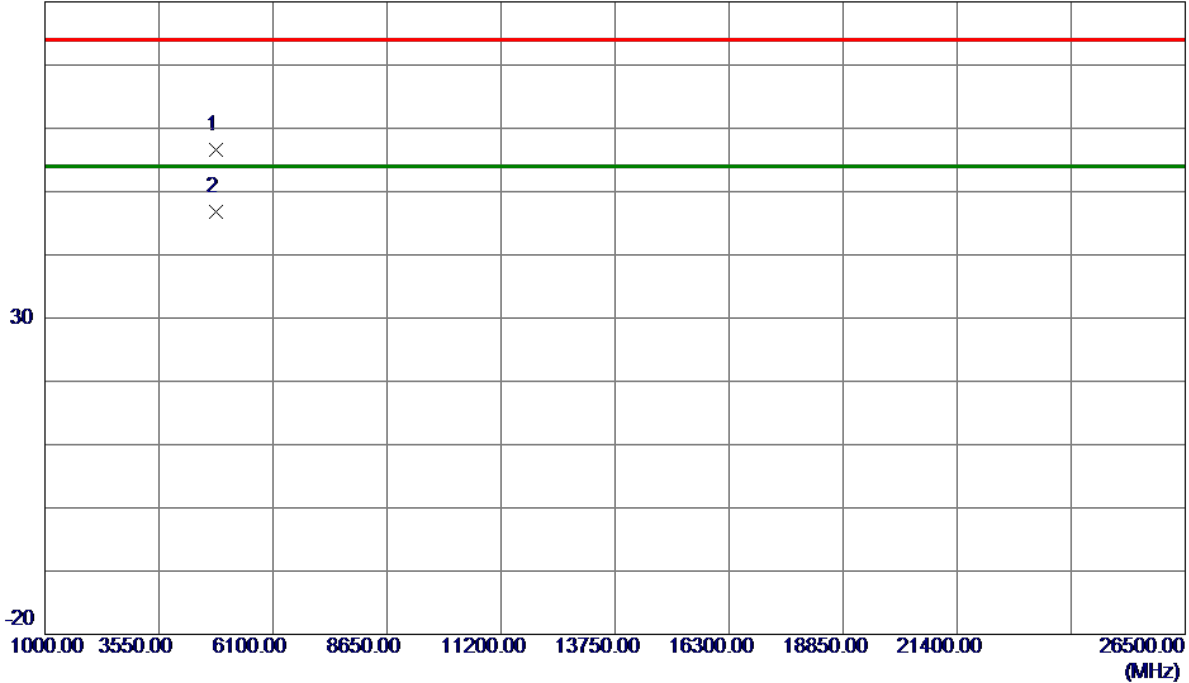
### REMARKS:

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

Test Mode:	TX N-20M Mode 2412 MHz
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## Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.7000	48.93	7.68	56.61	74.00	-17.39	Peak	
2 *	4823.7750	39.20	7.68	46.88	54.00	-7.12	AVG	

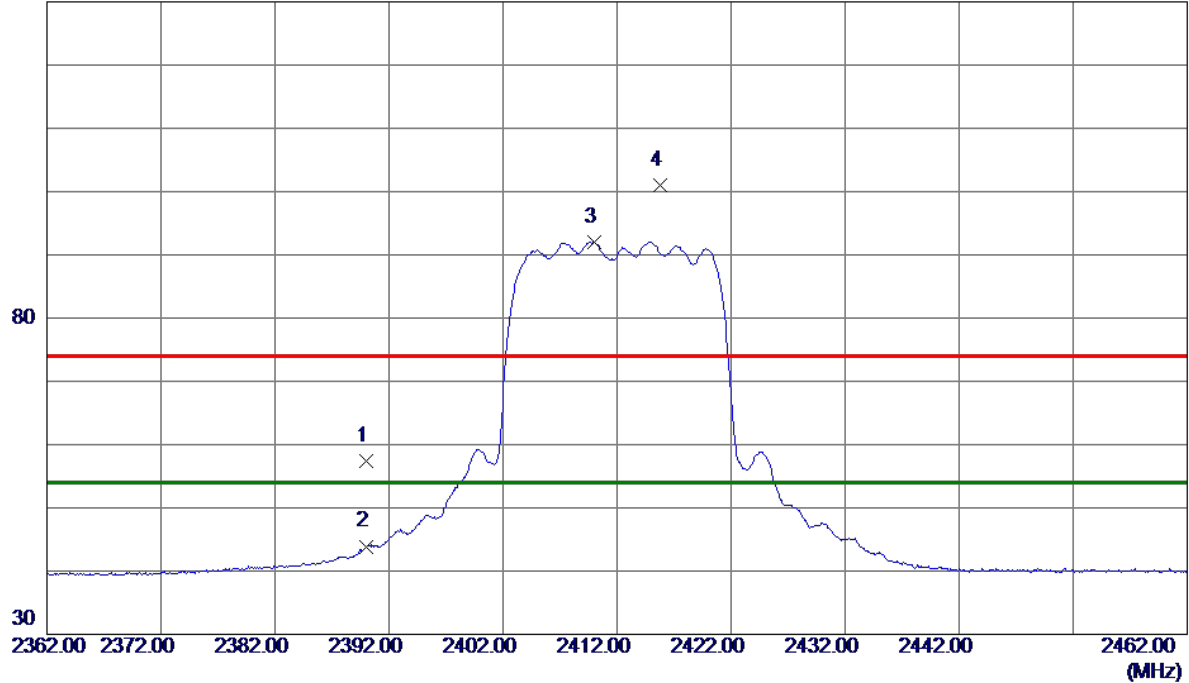
### REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

## Horizontal

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	47.54	9.95	57.49	74.00	-16.51	Peak	
2	2390.0000	33.95	9.95	43.90	54.00	-10.10	AVG	
3 *	2410.0500	82.08	10.02	92.10	54.00	38.10	AVG	No Limit
4	2415.7500	91.06	10.04	101.10	74.00	27.10	Peak	No Limit

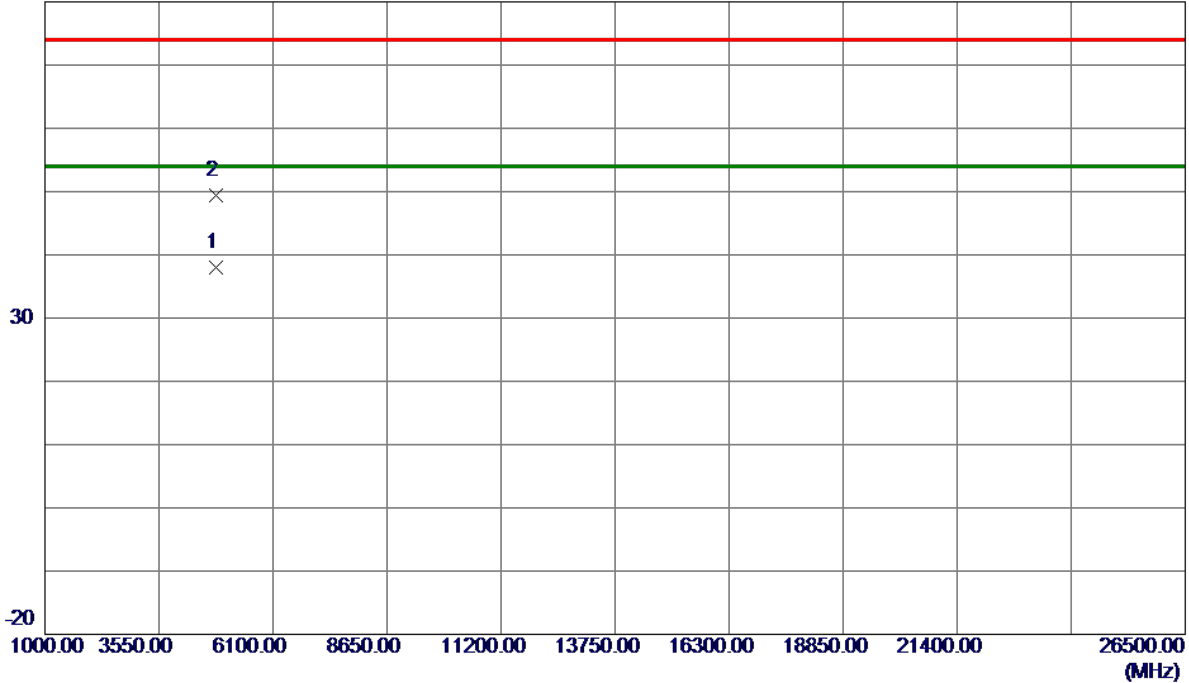
### REMARKS:

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

Test Mode:	TX N-20M Mode 2412 MHz
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## Horizontal

80 dBuV/m



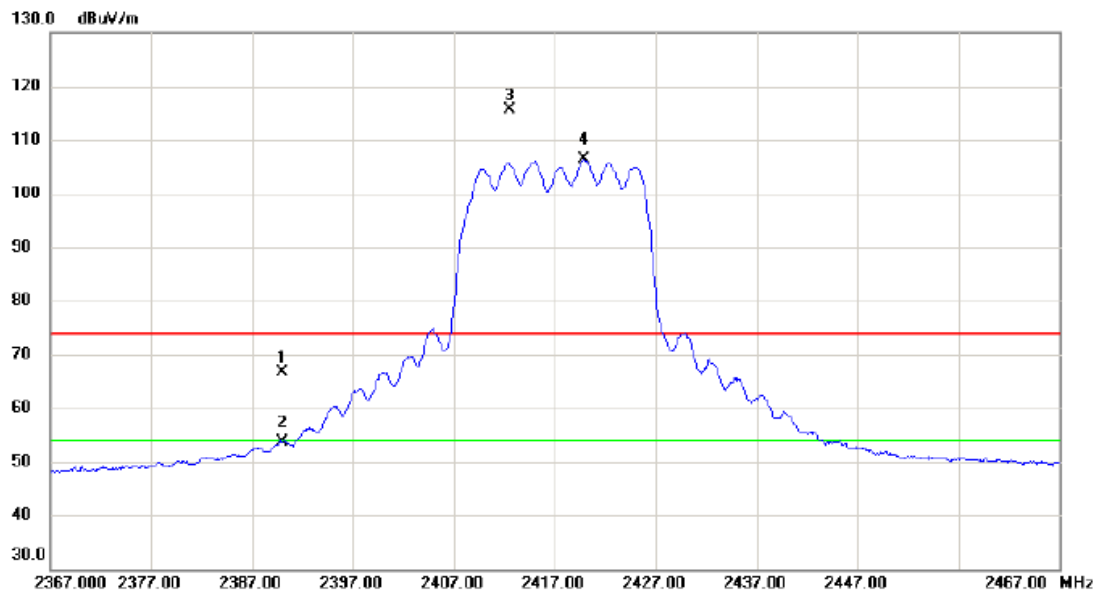
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4826.4600	30.21	7.70	37.91	54.00	-16.09	AVG	
2	4831.6900	41.59	7.72	49.31	74.00	-24.69	Peak	

### REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	56.57	9.95	66.52	74.00	-7.48	peak	
2		2390.000	43.64	9.95	53.59	54.00	-0.41	AVG	
3	X	2412.550	105.61	10.04	115.65	74.00	41.65	peak	No Limit
4	*	2419.800	96.27	10.06	106.33	54.00	52.33	AVG	No Limit

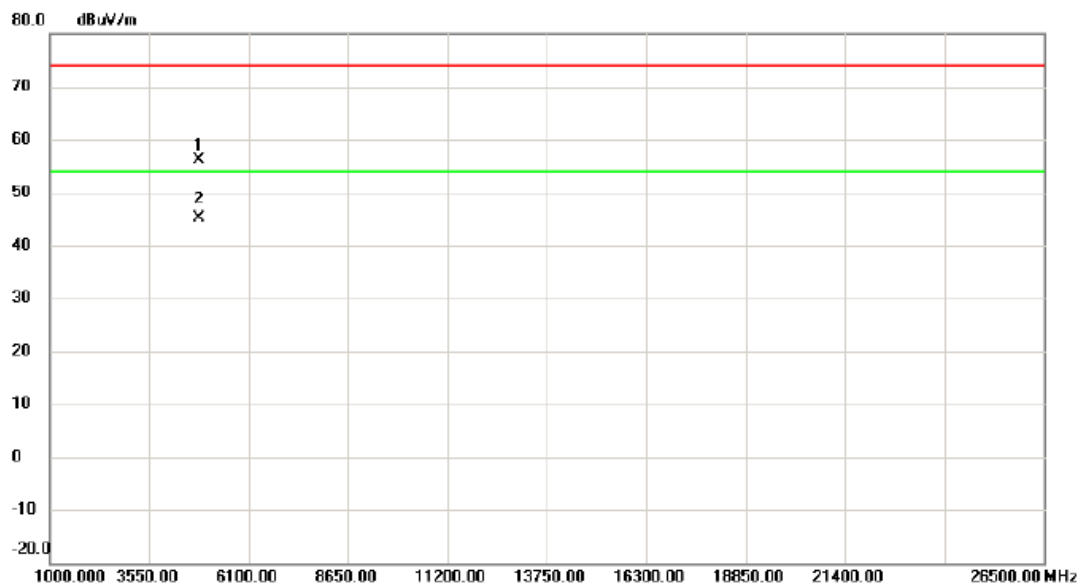
### REMARKS:

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



Test Mode: TX N-20M Mode 2417 MHz

## Vertical



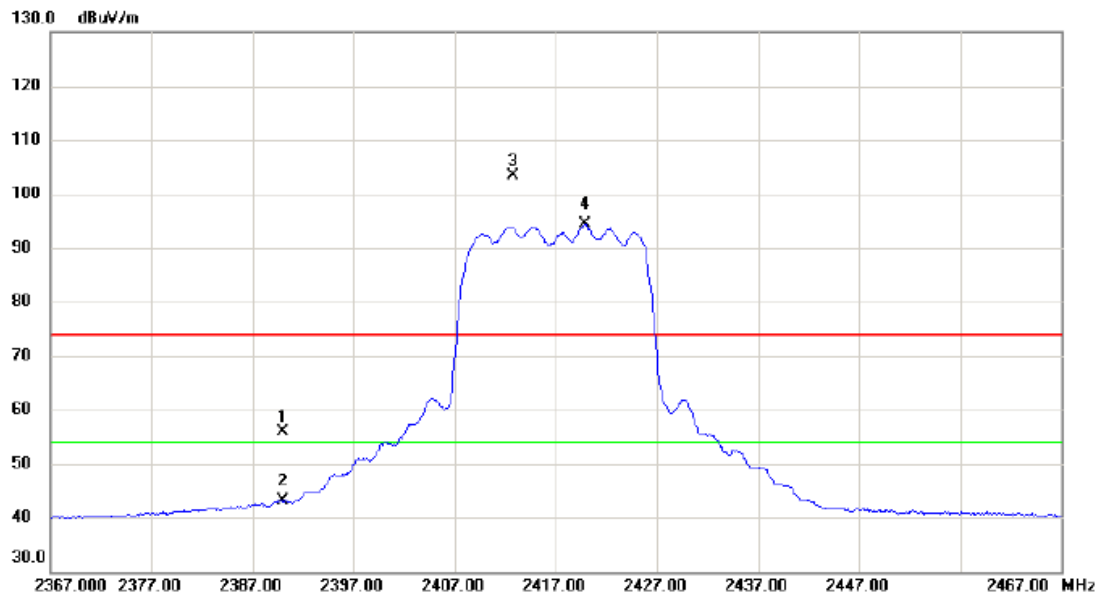
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4833.600	48.31	7.72	56.03	74.00	-17.97	peak	
2	*	4833.825	37.51	7.72	45.23	54.00	-8.77	AVG	

### REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

## Horizontal



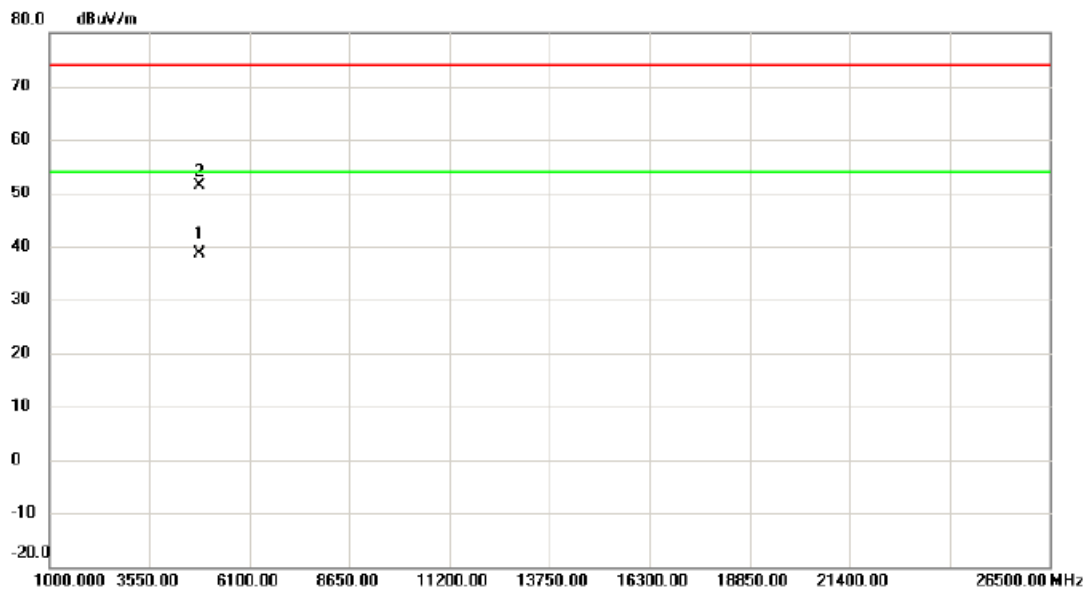
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	45.89	9.95	55.84	74.00	-18.16	peak	
2		2390.000	33.15	9.95	43.10	54.00	-10.90	AVG	
3	X	2412.750	93.32	10.04	103.36	74.00	29.36	peak	No Limit
4	*	2419.850	84.22	10.06	94.28	54.00	40.28	AVG	No Limit

### REMARKS:

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

Test Mode:	TX N-20M Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.840	30.98	7.72	38.70	54.00	-15.30	AVG	
2		4834.110	43.72	7.72	51.44	74.00	-22.56	peak	

### REMARKS:

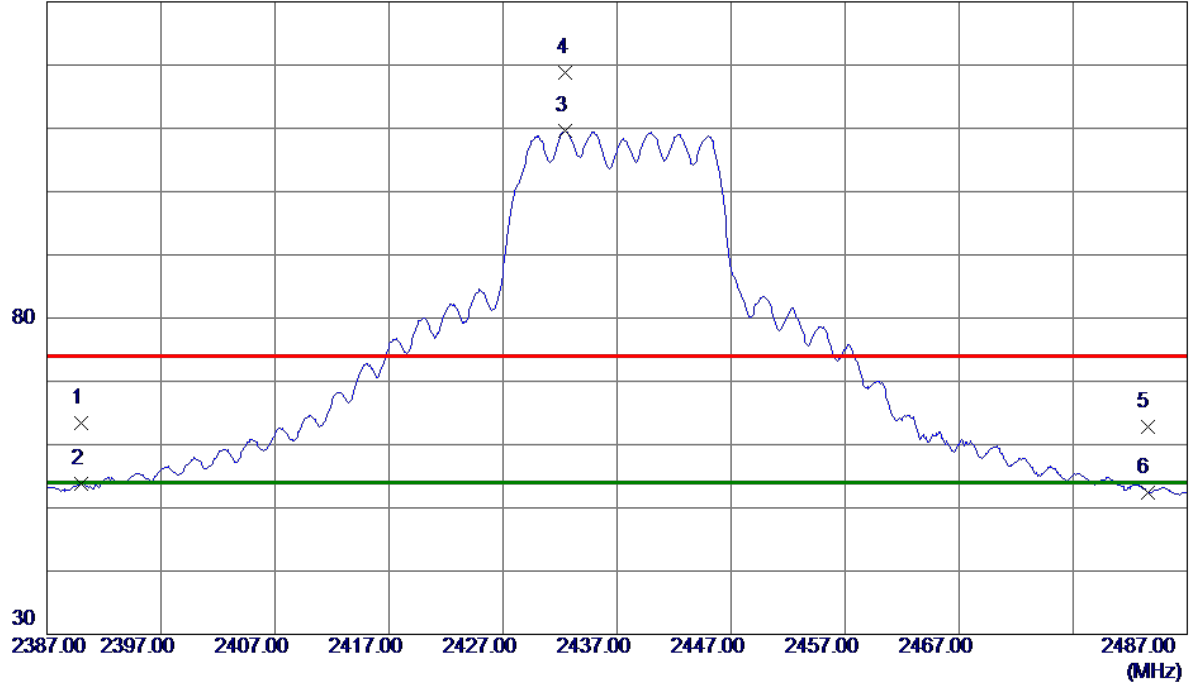
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX N-20M Mode 2437 MHz

## Vertical

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	53.38	9.95	63.33	74.00	-10.67	Peak	
2	2390.0000	43.82	9.95	53.77	54.00	-0.23	AVG	
3 *	2432.4000	99.43	10.11	109.54	54.00	55.54	AVG	No Limit
4	2432.5000	108.66	10.11	118.77	74.00	44.77	Peak	No Limit
5	2483.5000	52.47	10.30	62.77	74.00	-11.23	Peak	
6	2483.5000	42.18	10.30	52.48	54.00	-1.52	AVG	

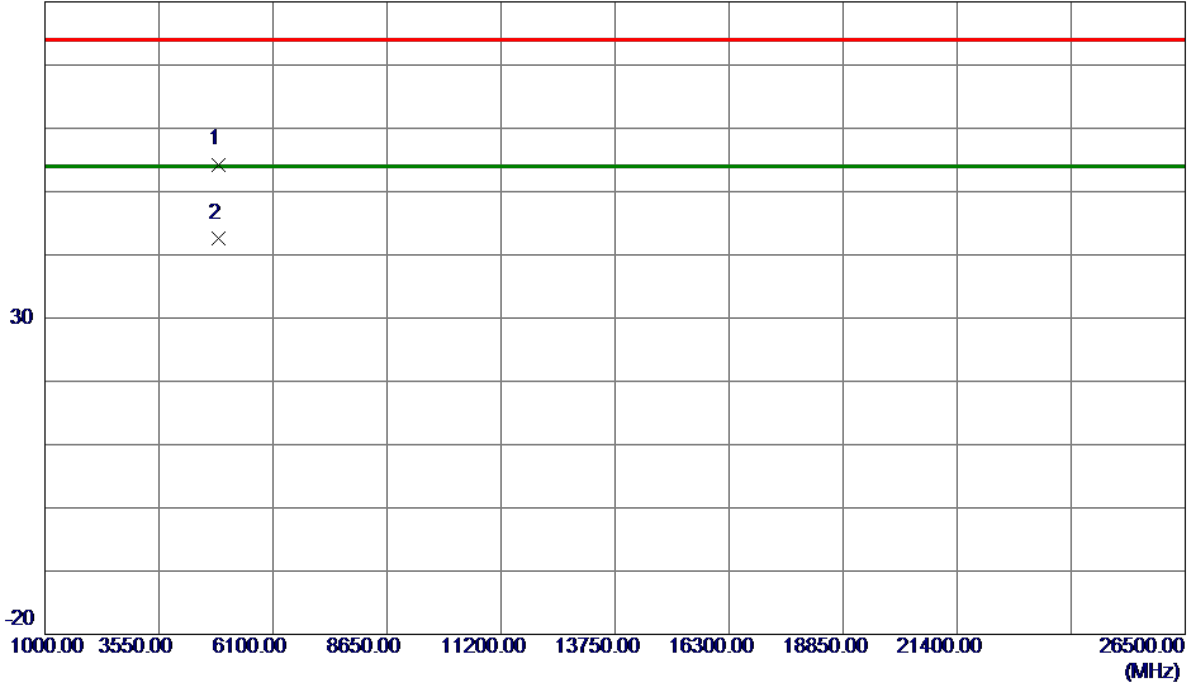
### REMARKS:

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

Test Mode:	TX N-20M Mode 2437 MHz
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## 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	4869.4500	46.43	7.87	54.30	74.00	-19.70	Peak	
2 *	4871.3250	34.80	7.88	42.68	54.00	-11.32	AVG	

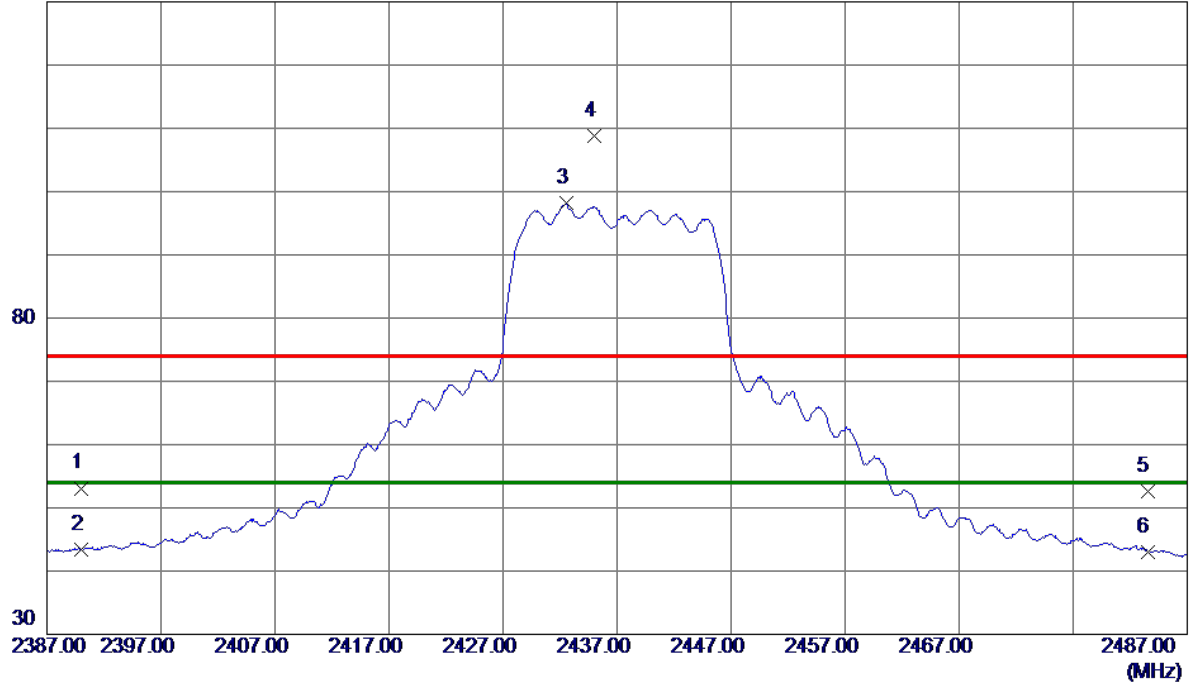
### REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

## Horizontal

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	43.15	9.95	53.10	74.00	-20.90	Peak	
2	2390.0000	33.45	9.95	43.40	54.00	-10.60	AVG	
3 *	2432.6000	88.06	10.11	98.17	54.00	44.17	AVG	No Limit
4	2435.0000	98.64	10.12	108.76	74.00	34.76	Peak	No Limit
5	2483.5000	42.31	10.30	52.61	74.00	-21.39	Peak	
6	2483.5000	32.73	10.30	43.03	54.00	-10.97	AVG	

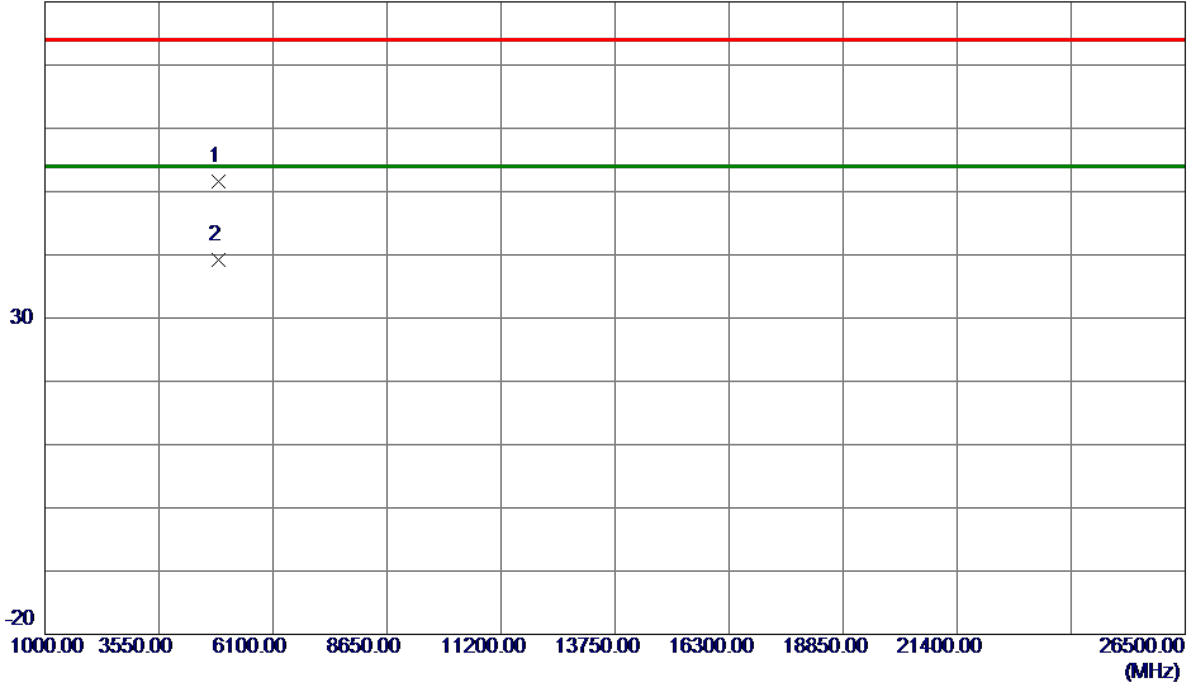
### REMARKS:

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

Test Mode:	TX N-20M Mode 2437 MHz
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## Horizontal

80 dBuV/m



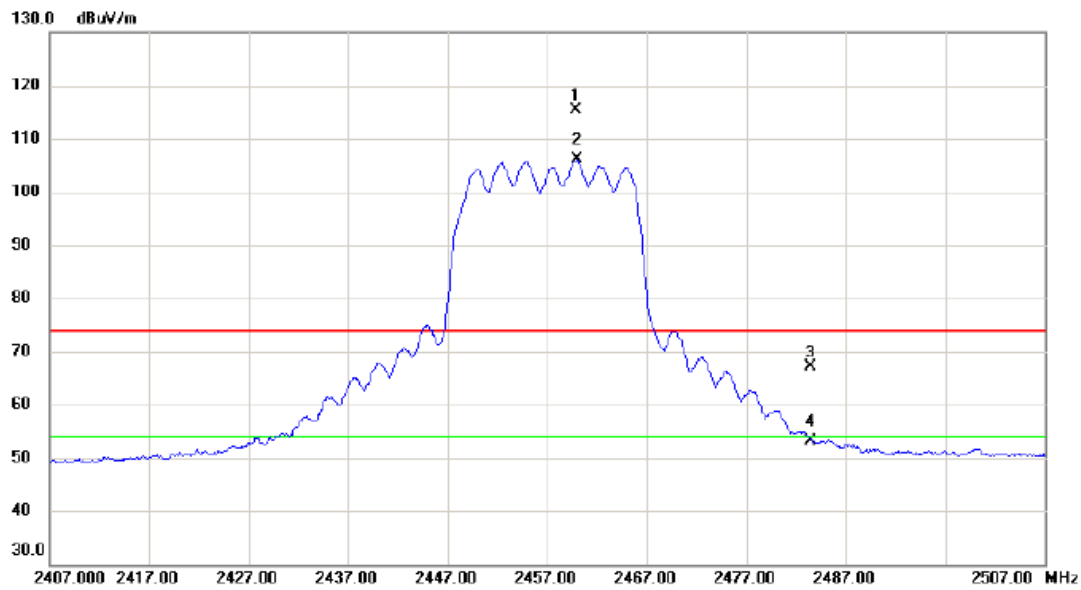
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.1800	43.70	7.89	51.59	74.00	-22.41	Peak	
2 *	4876.6300	31.37	7.90	39.27	54.00	-14.73	AVG	

### REMARKS:

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

Test Mode: TX N-20M Mode 2457 MHz

## Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2459.850	105.26	10.20	115.46	74.00	41.46	peak	No Limit
2	*	2460.000	95.82	10.20	106.02	54.00	52.02	AVG	No Limit
3		2483.500	56.82	10.29	67.11	74.00	-6.89	peak	
4		2483.500	42.94	10.29	53.23	54.00	-0.77	AVG	

### REMARKS:

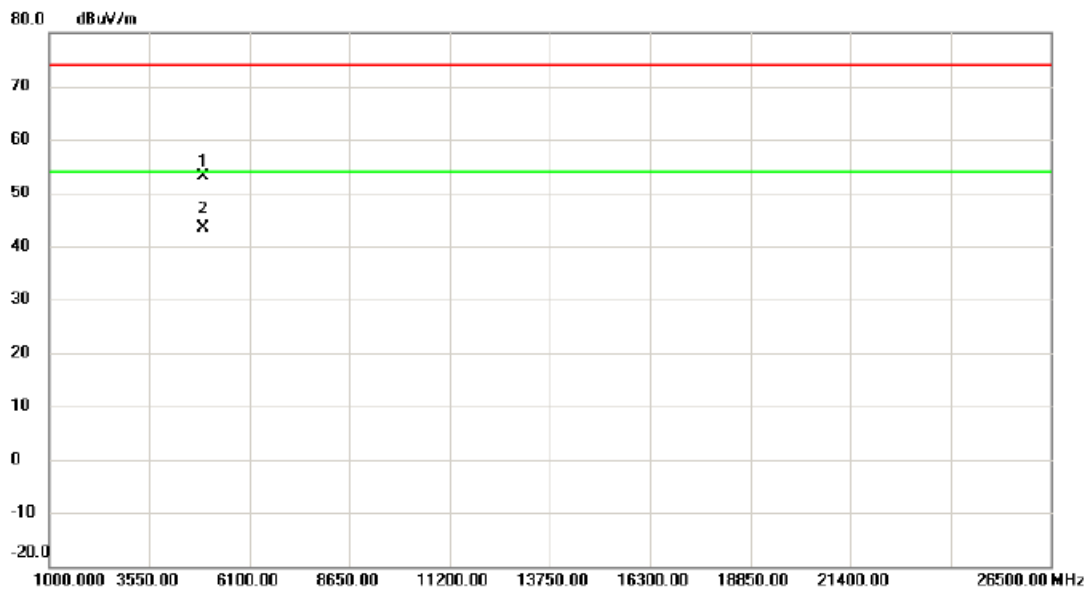
(1) Measurement Value = Reading Level + Correct Factor.

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



Test Mode:	TX N-20M Mode 2457 MHz
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## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4911.275	44.98	8.05	53.03	74.00	-20.97	peak	
2	*	4914.150	35.22	8.05	43.27	54.00	-10.73	AVG	

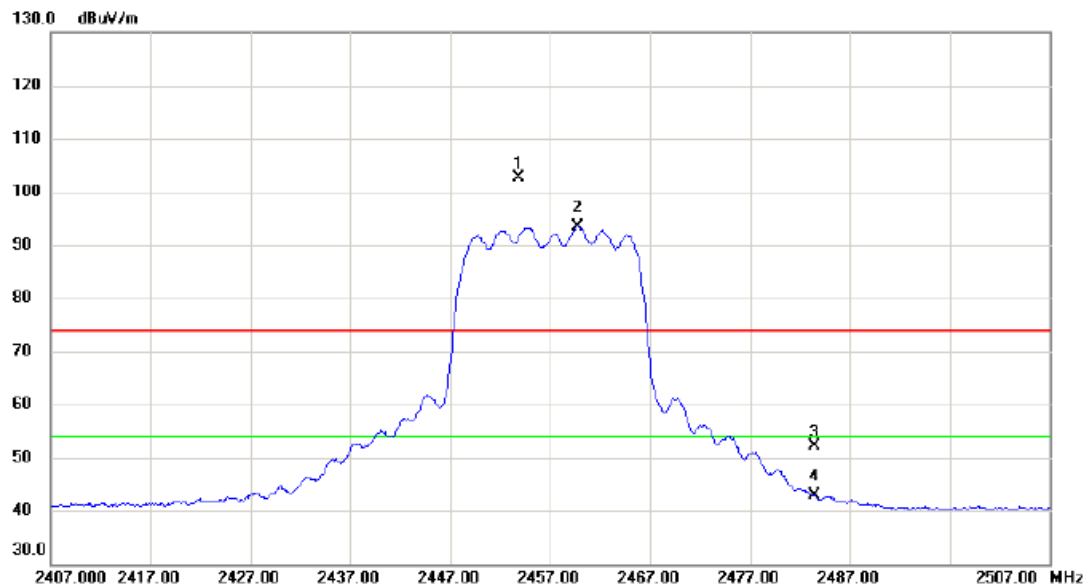
### REMARKS:

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

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

Test Mode: TX N-20M Mode 2457 MHz

## Horizontal



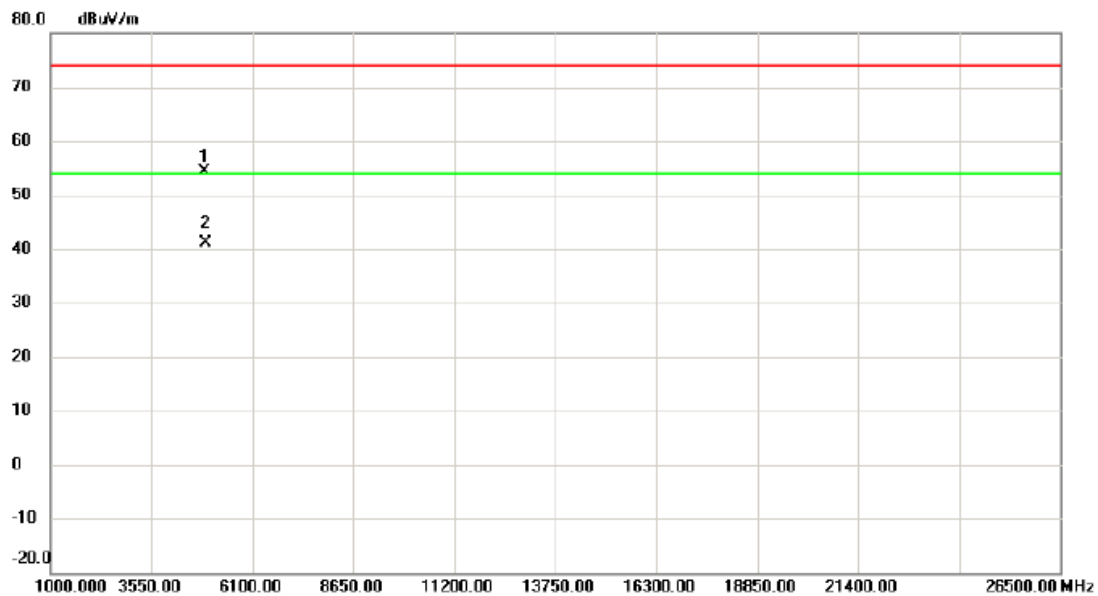
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.800	92.44	10.19	102.63	74.00	28.63	peak	No Limit
2	*	2459.750	83.30	10.20	93.50	54.00	39.50	AVG	No Limit
3		2483.500	41.90	10.29	52.19	74.00	-21.81	peak	
4		2483.500	32.56	10.29	42.85	54.00	-11.15	AVG	

### REMARKS:

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

Test Mode: TX N-20M Mode 2457 MHz

## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4909.140	46.22	8.04	54.26	74.00	-19.74	peak	
2	*	4914.150	33.06	8.05	41.11	54.00	-12.89	AVG	

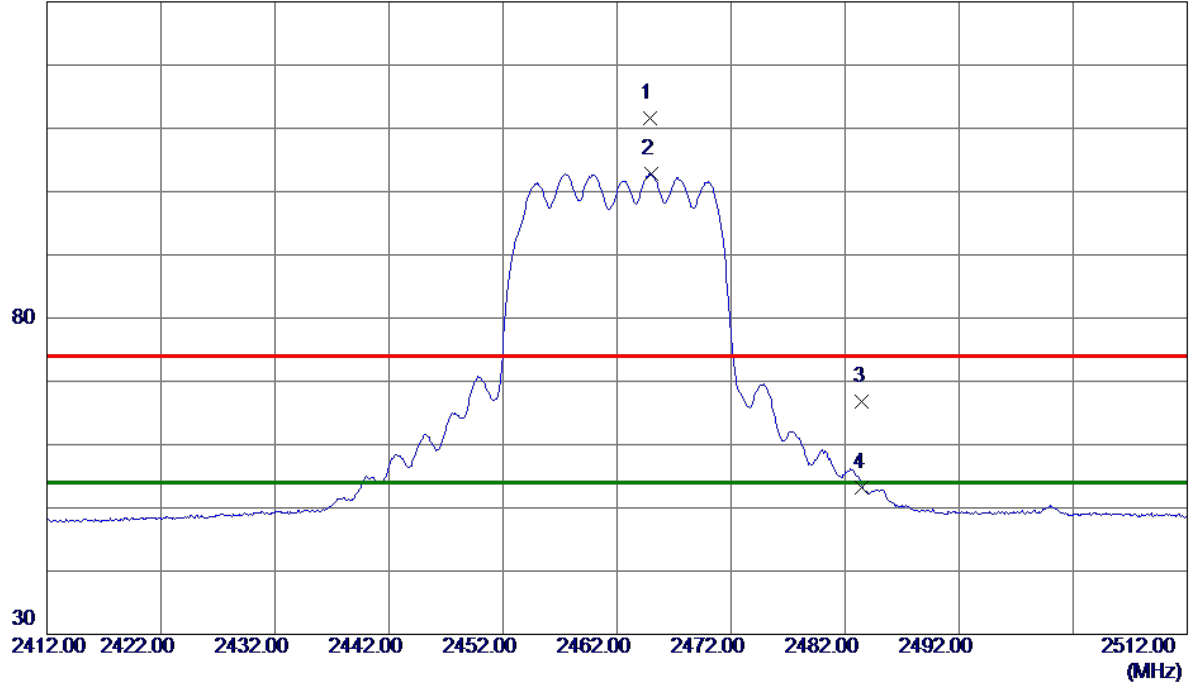
### REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

## Vertical

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	2464.8500	101.45	10.23	111.68	74.00	37.68	Peak	No Limit
2 *	2464.9500	92.60	10.23	102.83	54.00	48.83	AVG	No Limit
3	2483.5000	56.48	10.30	66.78	74.00	-7.22	Peak	
4	2483.5000	42.99	10.30	53.29	54.00	-0.71	AVG	

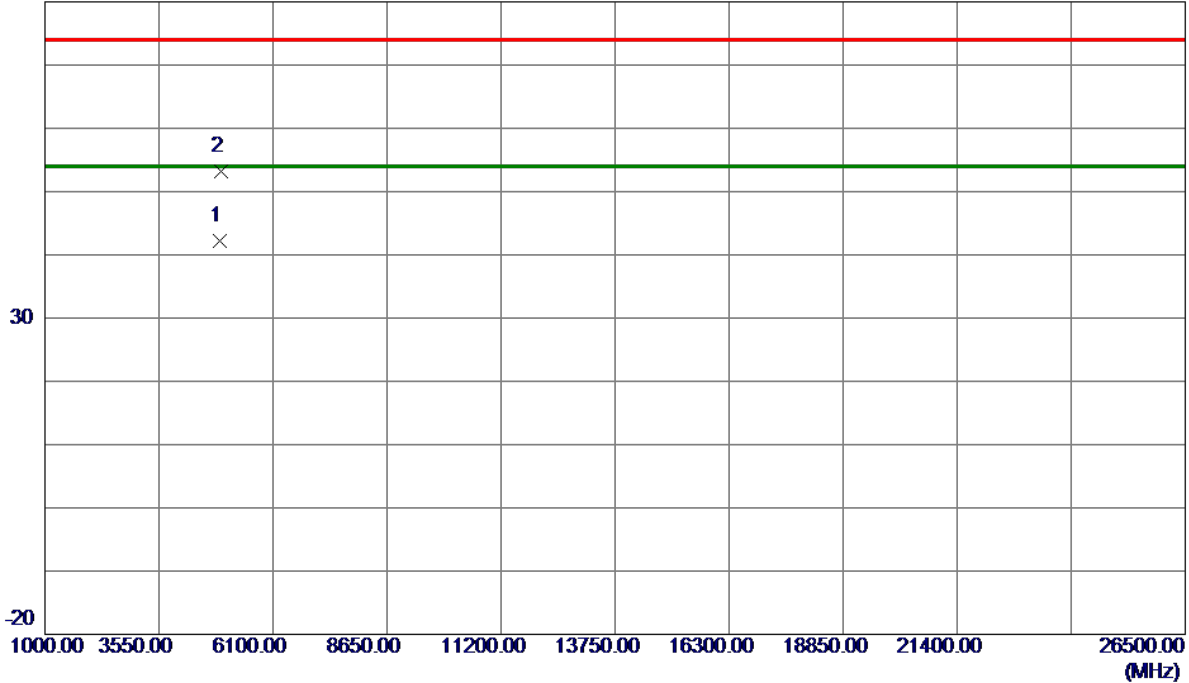
### REMARKS:

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

Test Mode:	TX N-20M Mode 2462 MHz
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## Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.1000	34.19	8.10	42.29	54.00	-11.71	AVG	
2	4926.3750	45.09	8.11	53.20	74.00	-20.80	Peak	

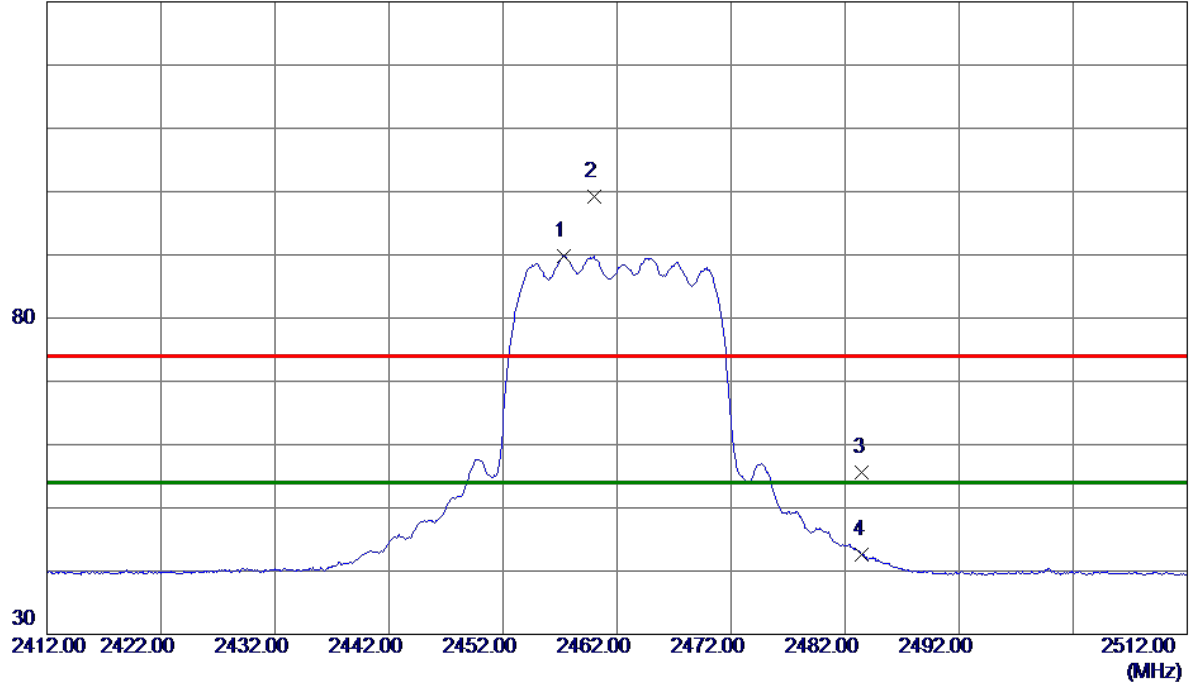
### REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

## Horizontal

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 *	2457.3000	79.58	10.20	89.78	54.00	35.78	AVG	No Limit
2	2460.0000	88.95	10.21	99.16	74.00	25.16	Peak	No Limit
3	2483.5000	45.28	10.30	55.58	74.00	-18.42	Peak	
4	2483.5000	32.33	10.30	42.63	54.00	-11.37	AVG	

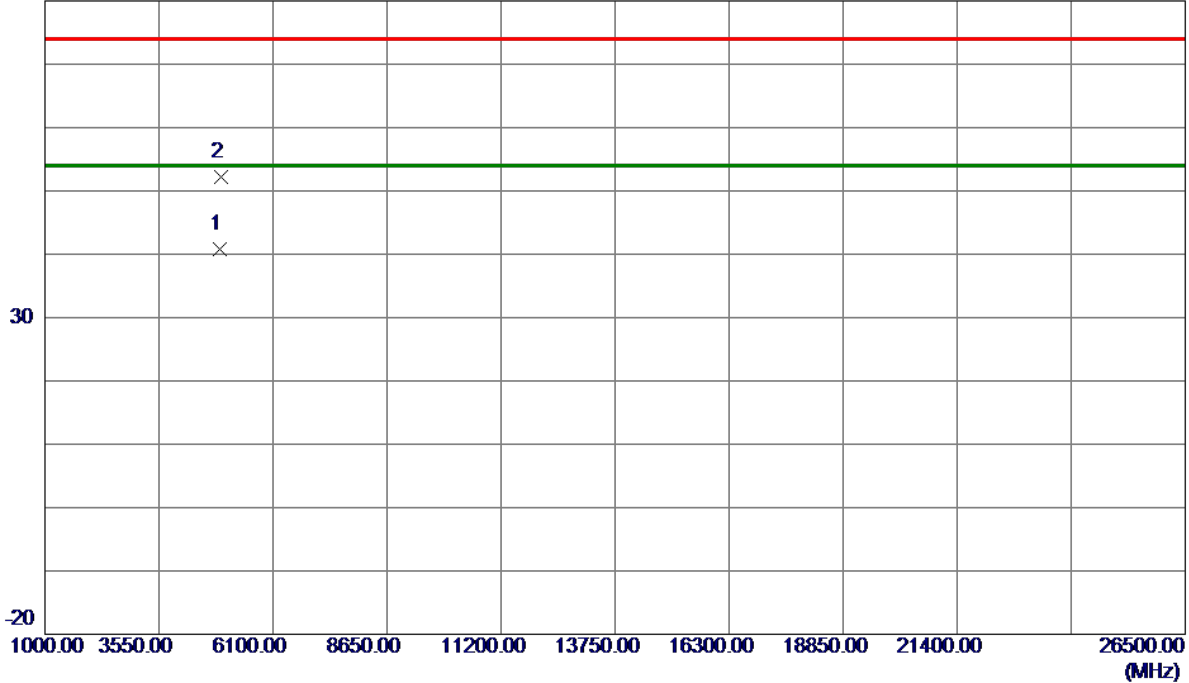
### REMARKS:

- (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 *	4924.1450	32.68	8.10	40.78	54.00	-13.22	AVG	
2	4926.4049	44.09	8.11	52.20	74.00	-21.80	Peak	

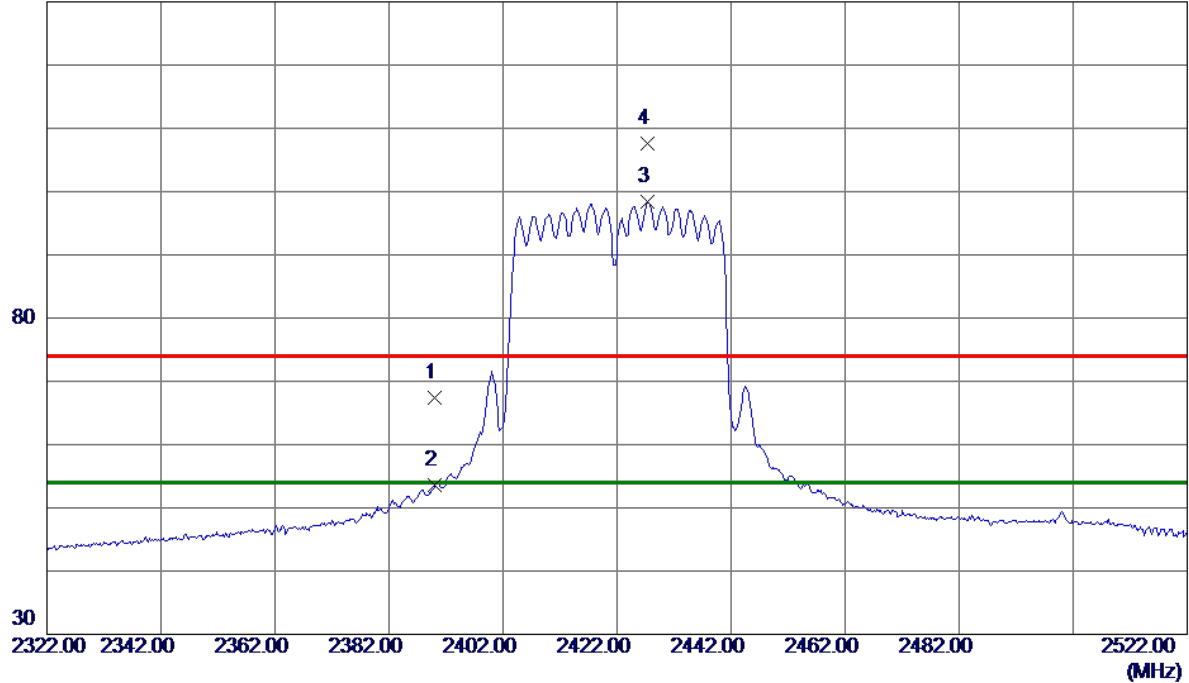
### REMARKS:

- (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	57.48	9.95	67.43	74.00	-6.57	Peak	
2	2390.0000	43.62	9.95	53.57	54.00	-0.43	AVG	
3 *	2427.3000	88.31	10.09	98.40	54.00	44.40	AVG	No Limit
4	2427.4000	97.48	10.09	107.57	74.00	33.57	Peak	No Limit

### REMARKS:

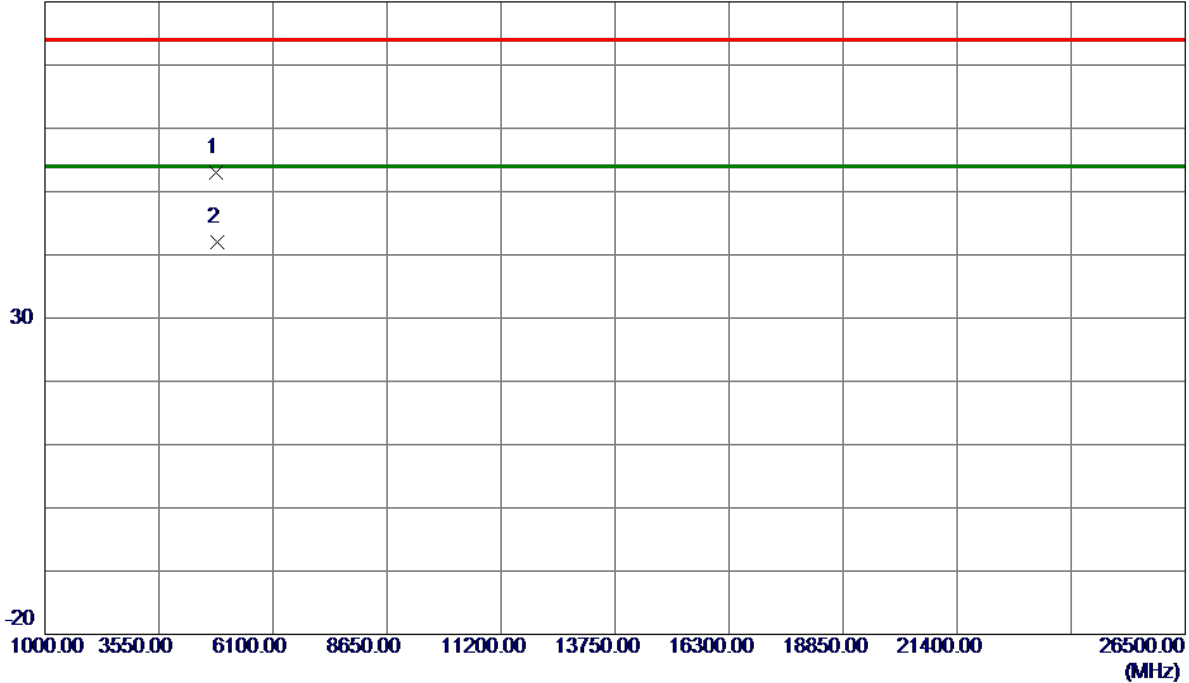
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode:	TX N-40M Mode 2422MHz
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## 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	4838.6500	45.22	7.75	52.97	74.00	-21.03	Peak	
2 *	4843.9250	34.15	7.77	41.92	54.00	-12.08	AVG	

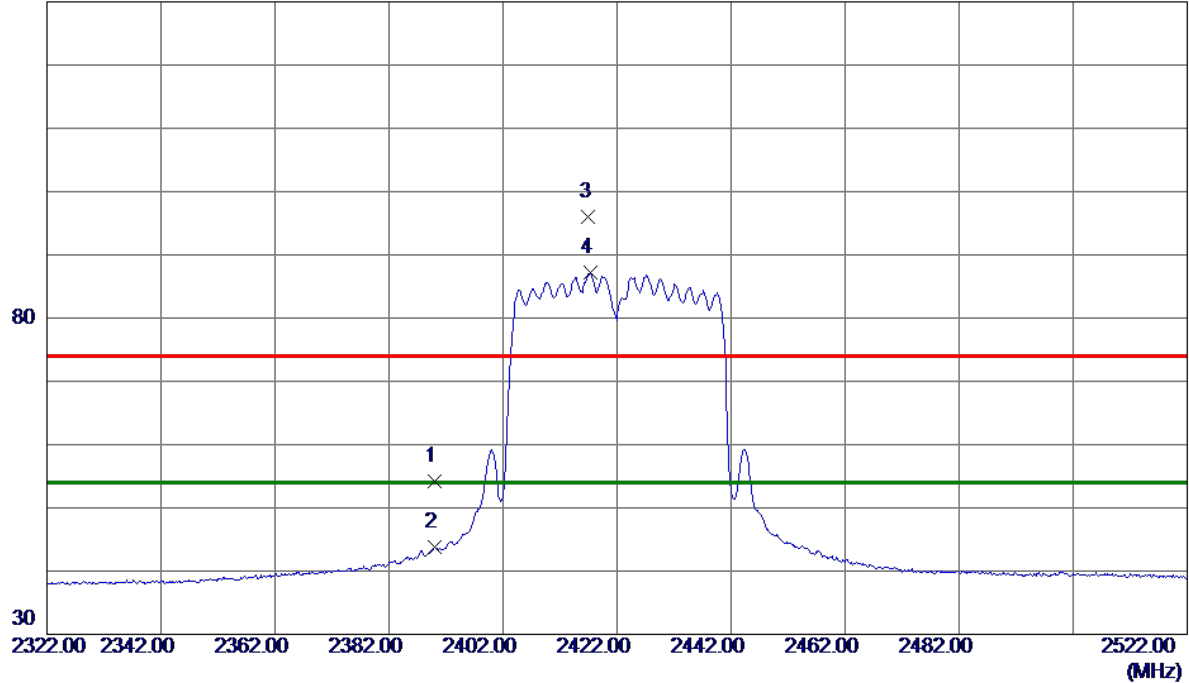
### REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

## Horizontal

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	44.34	9.95	54.29	74.00	-19.71	Peak	
2	2390.0000	33.77	9.95	43.72	54.00	-10.28	AVG	
3	2417.0000	85.98	10.05	96.03	74.00	22.03	Peak	No Limit
4 *	2417.4000	77.10	10.05	87.15	54.00	33.15	AVG	No Limit

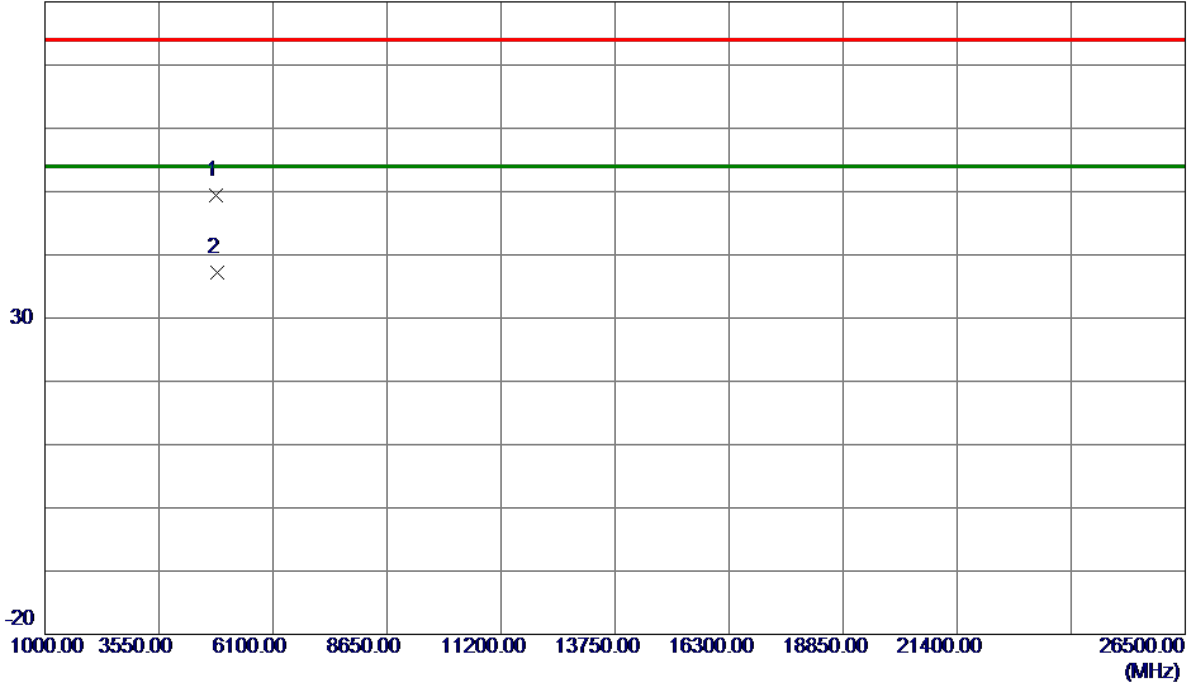
### REMARKS:

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

Test Mode:	TX N-40M Mode 2422MHz
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## Horizontal

80 dBuV/m



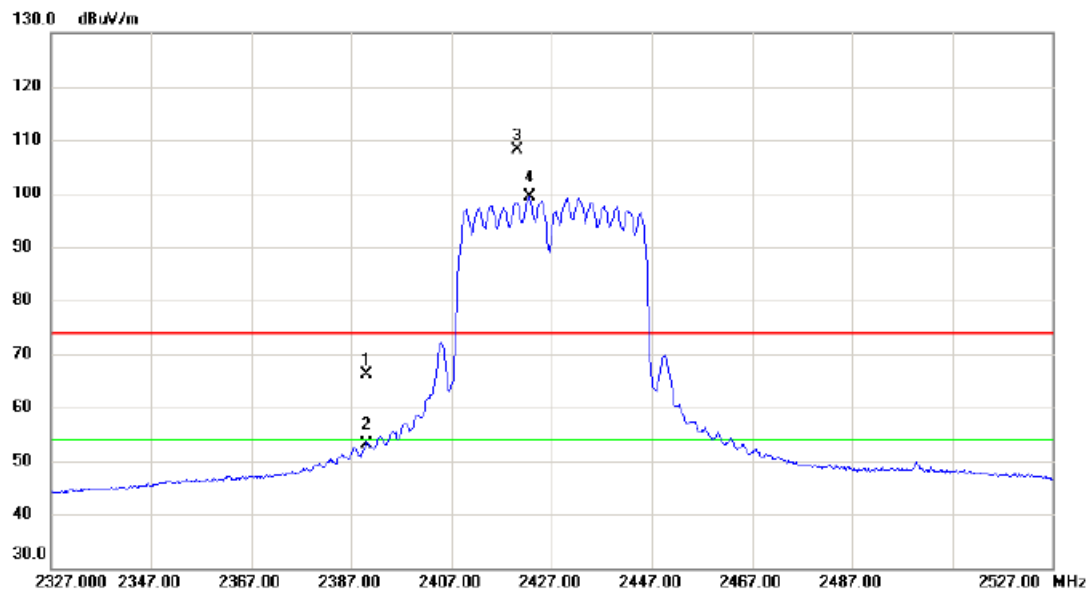
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4836.2200	41.66	7.74	49.40	74.00	-24.60	Peak	
2 *	4843.8200	29.35	7.77	37.12	54.00	-16.88	AVG	

### REMARKS:

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

Test Mode: TX N-40M Mode 2427 MHz

## Vertical



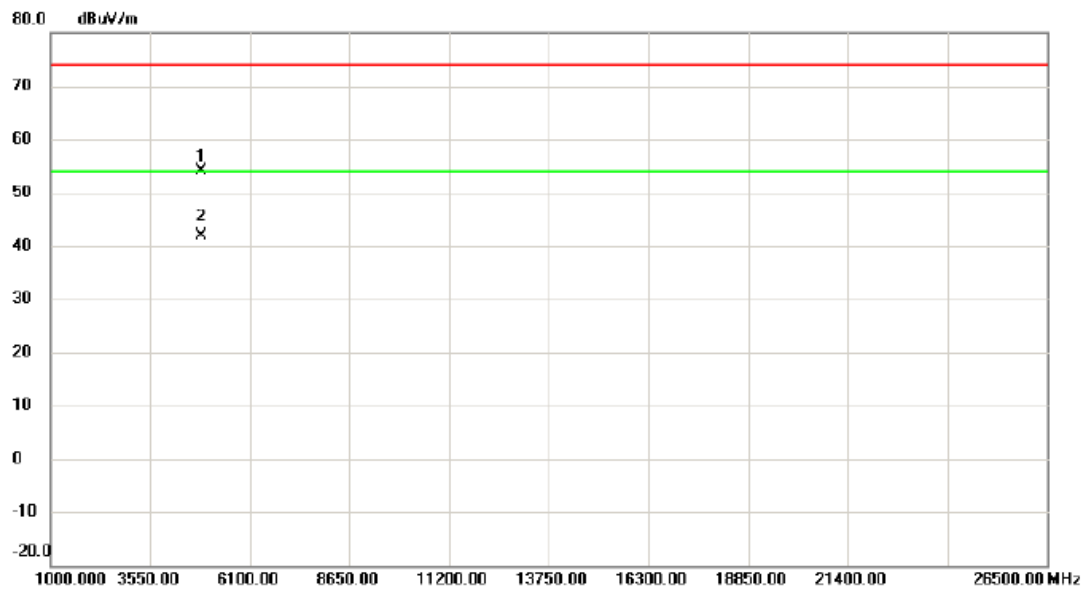
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	56.11	9.95	66.06	74.00	-7.94	peak	
2		2390.000	43.25	9.95	53.20	54.00	-0.80	AVG	
3	X	2420.100	98.17	10.06	108.23	74.00	34.23	peak	No Limit
4	*	2422.500	89.20	10.07	99.27	54.00	45.27	AVG	No Limit

### REMARKS:

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

Test Mode: TX N-40M Mode 2427 MHz

## Vertical



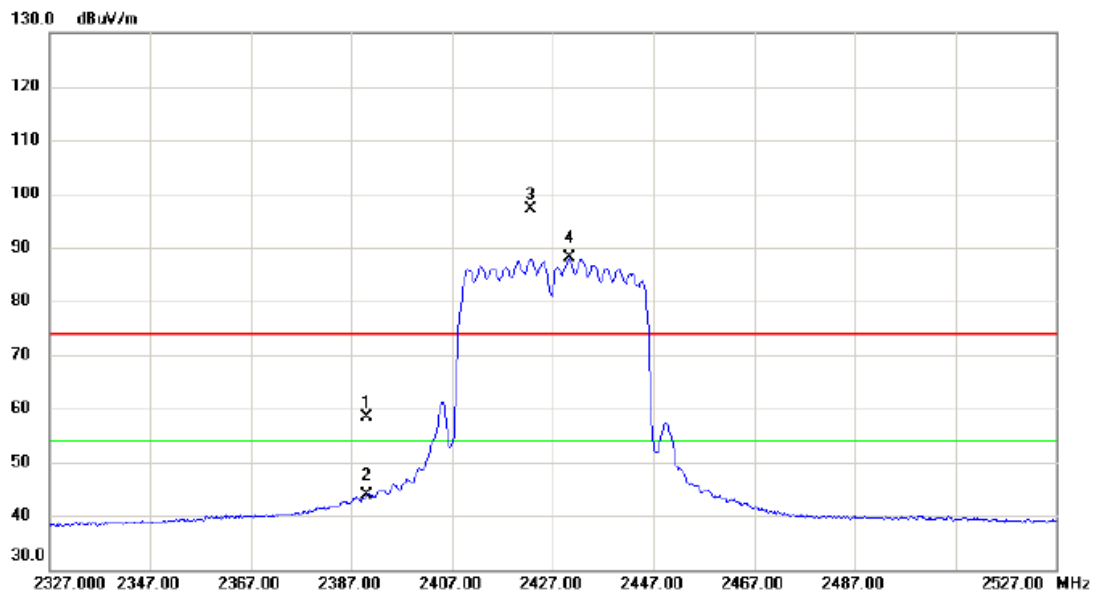
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4848.250	46.26	7.79	54.05	74.00	-19.95	peak	
2	*	4856.300	33.94	7.82	41.76	54.00	-12.24	AVG	

### REMARKS:

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

Test Mode: TX N-40M Mode 2427 MHz

## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	48.49	9.95	58.44	74.00	-15.56	peak	
2		2390.000	34.00	9.95	43.95	54.00	-10.05	AVG	
3	X	2422.700	87.18	10.07	97.25	74.00	23.25	peak	No Limit
4	*	2430.300	77.95	10.10	88.05	54.00	34.05	AVG	No Limit

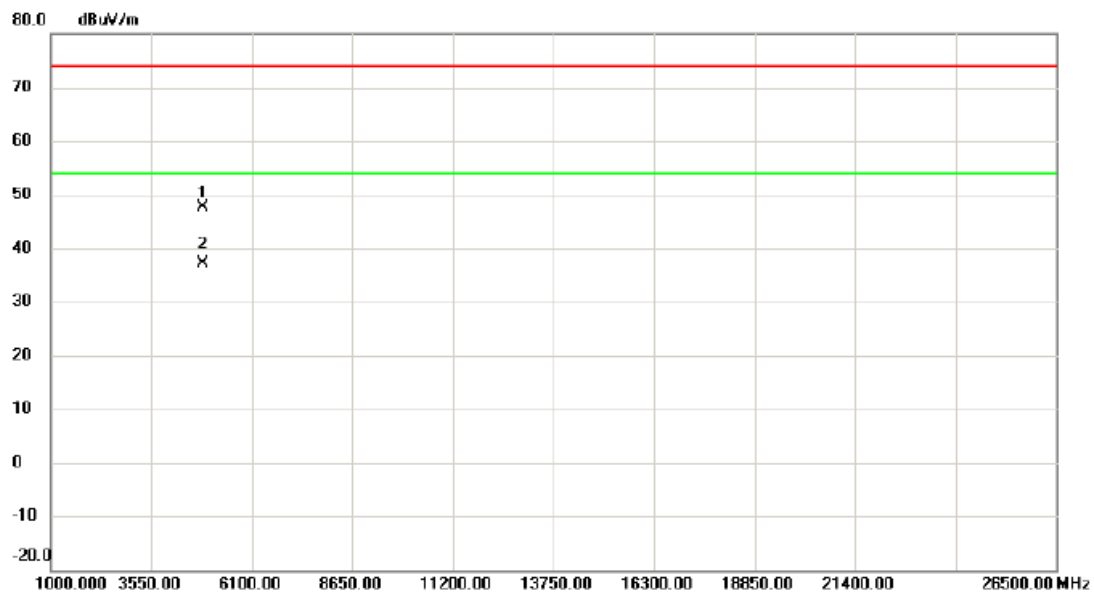
### REMARKS:

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

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

Test Mode: TX N-40M Mode 2427 MHz

## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4846.520	39.75	7.77	47.52	74.00	-26.48	peak	
2	*	4849.170	29.32	7.79	37.11	54.00	-16.89	AVG	

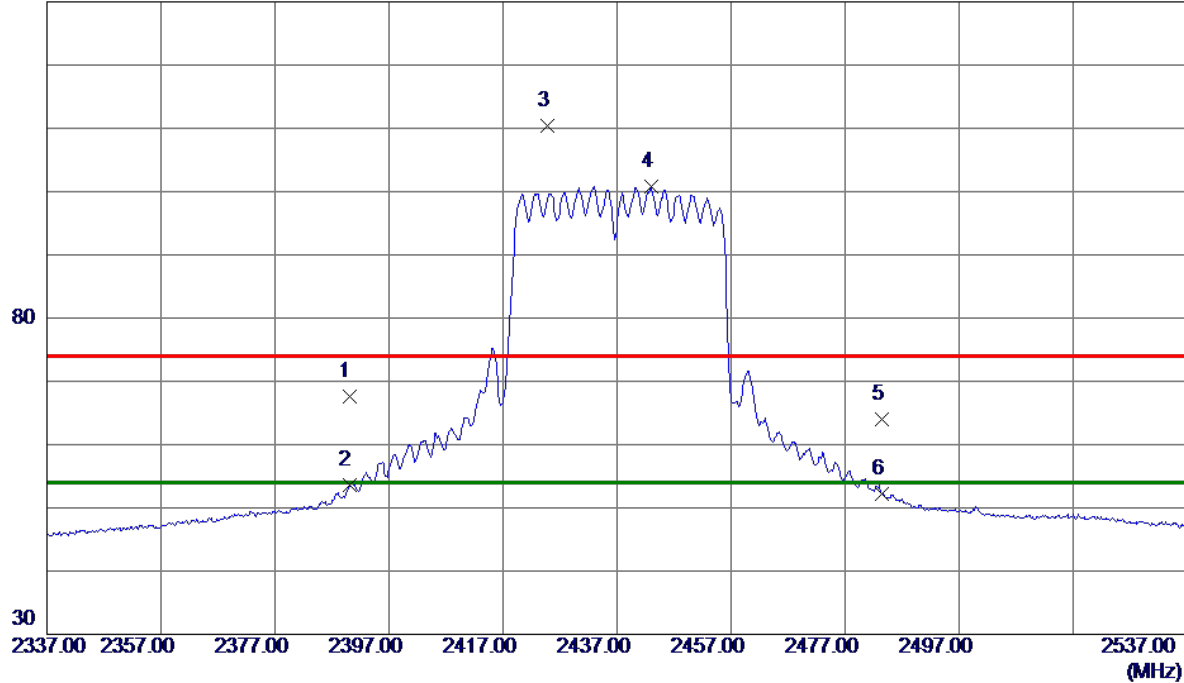
### REMARKS:

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

Test Mode: TX N-40M Mode 2437 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	57.70	9.95	67.65	74.00	-6.35	Peak	
2	2390.0000	43.61	9.95	53.56	54.00	-0.44	AVG	
3	2424.8000	100.26	10.08	110.34	74.00	36.34	Peak	No Limit
4 *	2442.9000	90.68	10.15	100.83	54.00	46.83	AVG	No Limit
5	2483.5000	53.66	10.30	63.96	74.00	-10.04	Peak	
6	2483.5000	41.93	10.30	52.23	54.00	-1.77	AVG	

### REMARKS:

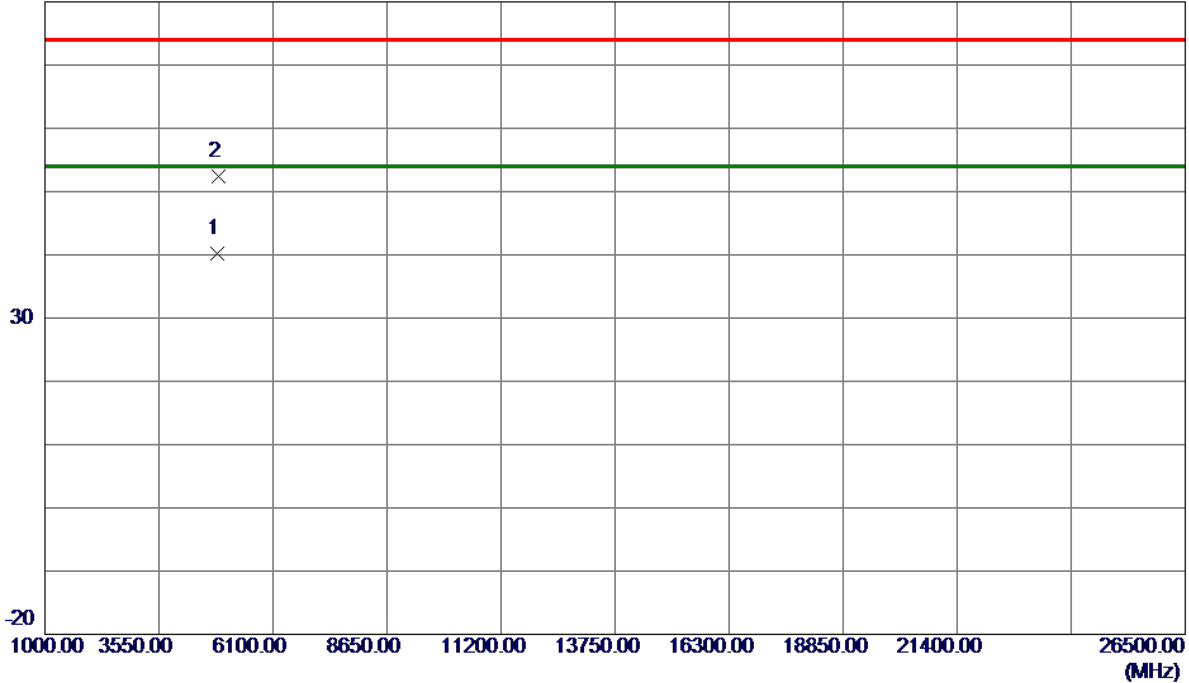
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



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 *	4866.4000	32.37	7.86	40.23	54.00	-13.77	AVG	
2	4869.3500	44.55	7.87	52.42	74.00	-21.58	Peak	

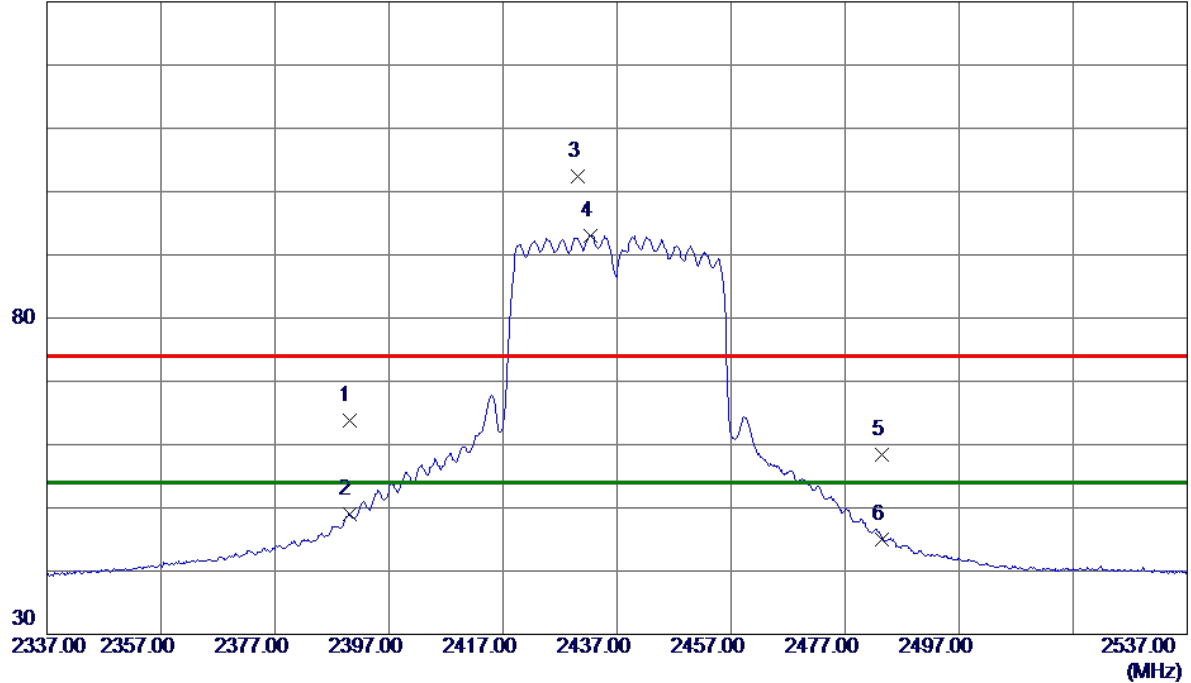
### REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

## Horizontal

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	53.82	9.95	63.77	74.00	-10.23	Peak	
2	2390.0000	39.11	9.95	49.06	54.00	-4.94	AVG	
3	2430.1000	92.37	10.10	102.47	74.00	28.47	Peak	No Limit
4 *	2432.3000	82.94	10.11	93.05	54.00	39.05	AVG	No Limit
5	2483.5000	48.04	10.30	58.34	74.00	-15.66	Peak	
6	2483.5000	34.61	10.30	44.91	54.00	-9.09	AVG	

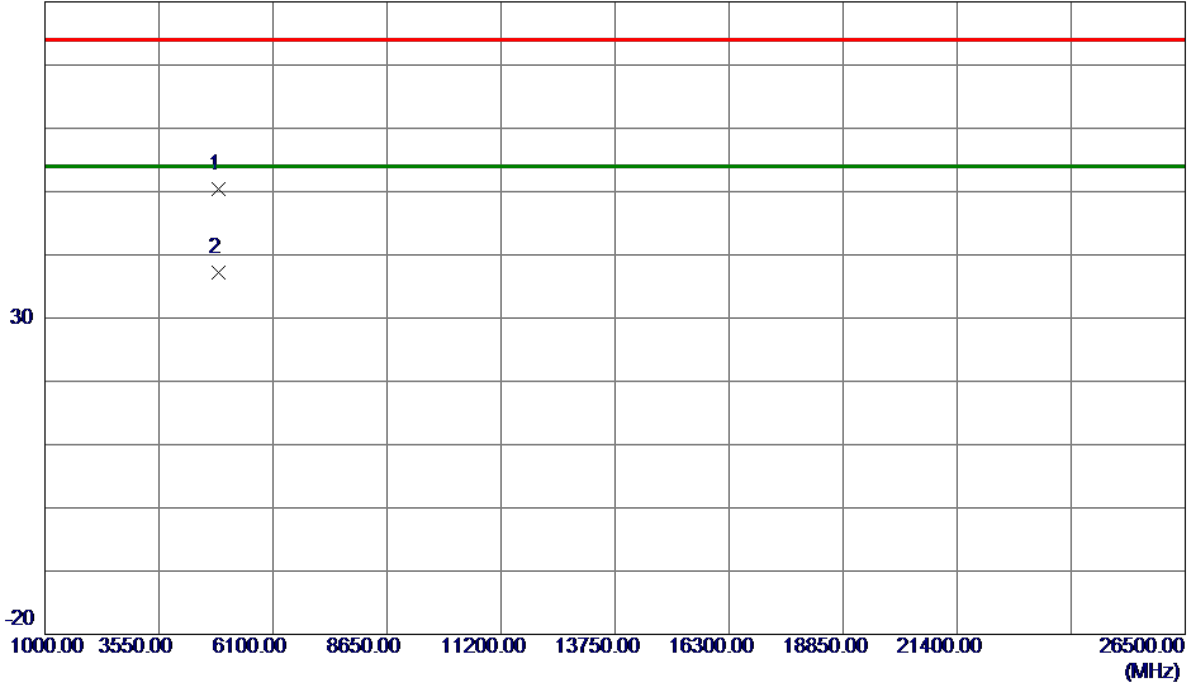
### REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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## Horizontal

80 dBuV/m



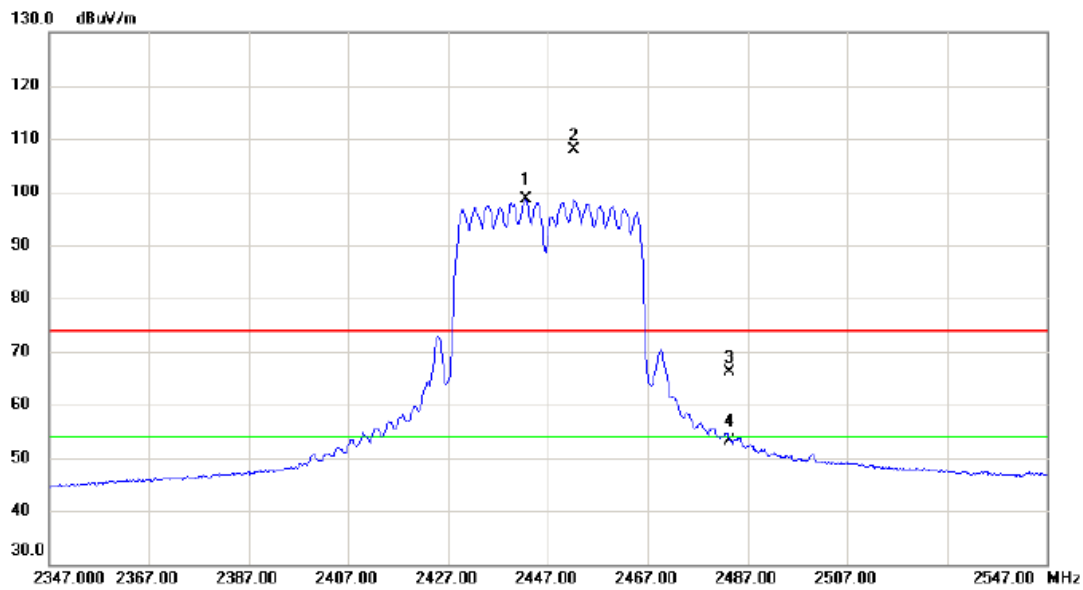
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.6100	42.49	7.89	50.38	74.00	-23.62	Peak	
2 *	4881.6900	29.25	7.92	37.17	54.00	-16.83	AVG	

### REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

## Vertical



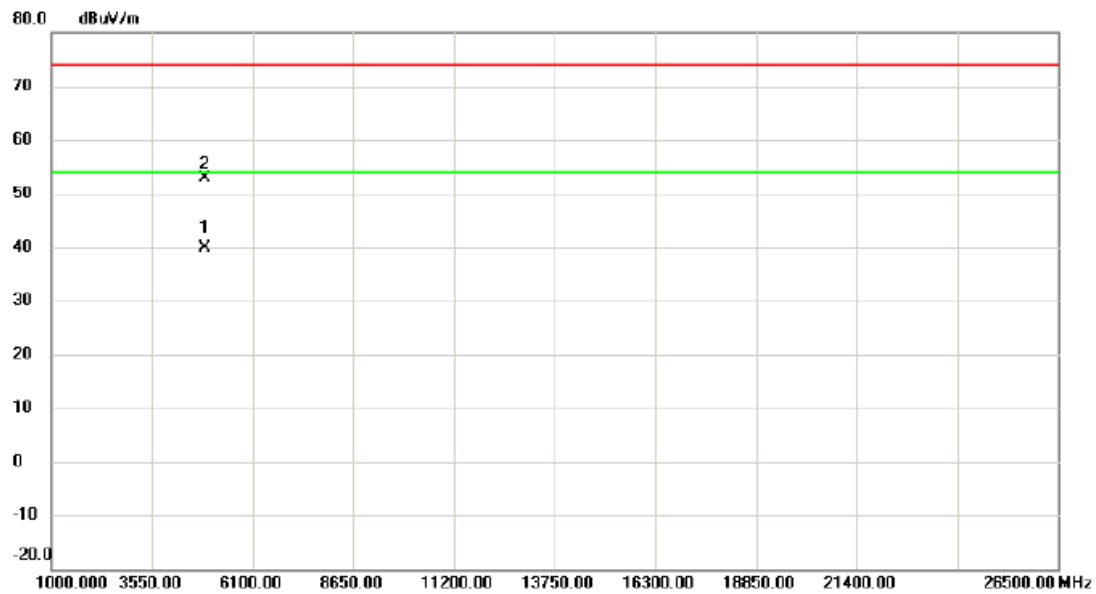
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2442.600	88.38	10.14	98.52	54.00	44.52	AVG	No Limit
2	X	2452.300	97.63	10.18	107.81	74.00	33.81	peak	No Limit
3		2483.500	55.87	10.29	66.16	74.00	-7.84	peak	
4		2483.500	42.85	10.29	53.14	54.00	-0.86	AVG	

### REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

## Vertical



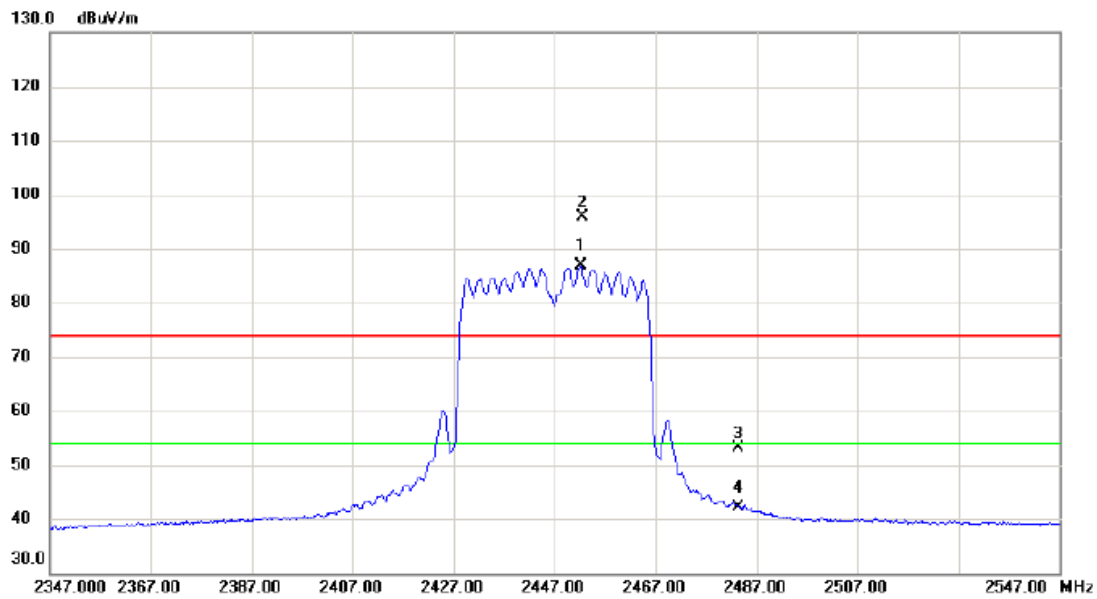
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4901.400	31.81	8.00	39.81	54.00	-14.19	AVG	
2		4893.900	44.85	7.97	52.82	74.00	-21.18	peak	

## REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

## Horizontal



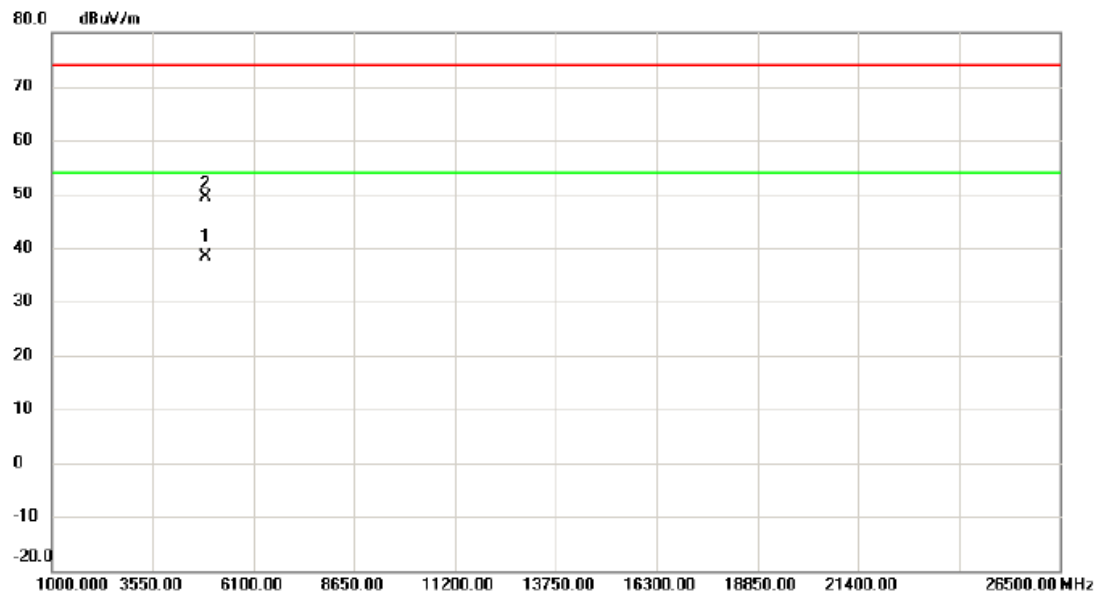
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2452.300	76.60	10.18	86.78	54.00	32.78	AVG	No Limit
2	X	2452.500	85.65	10.18	95.83	74.00	21.83	peak	No Limit
3		2483.500	42.75	10.29	53.04	74.00	-20.96	peak	
4		2483.500	31.79	10.29	42.08	54.00	-11.92	AVG	

### REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4894.250	30.34	7.97	38.31	54.00	-15.69	AVG	
2		4899.310	41.32	8.00	49.32	74.00	-24.68	peak	

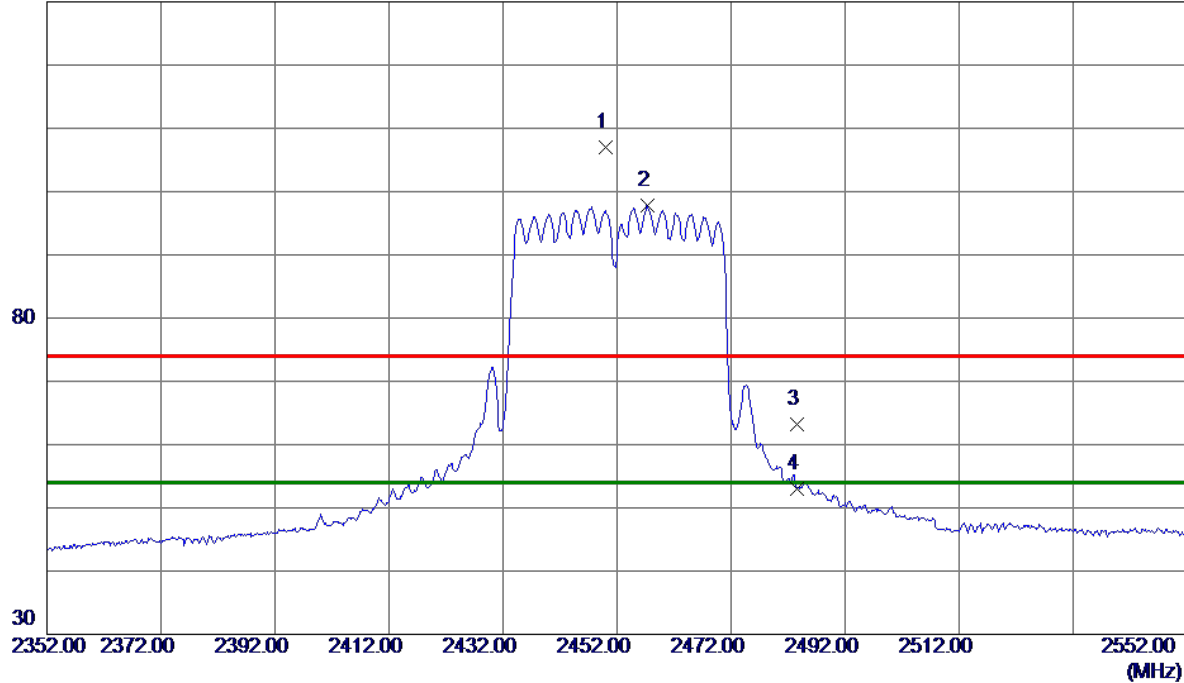
### REMARKS:

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

Test Mode: TX N-40M Mode 2452 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	2449.9000	96.89	10.17	107.06	74.00	33.06	Peak	No Limit
2 *	2457.4000	87.66	10.20	97.86	54.00	43.86	AVG	No Limit
3	2483.5000	52.94	10.30	63.24	74.00	-10.76	Peak	
4	2483.5000	42.79	10.30	53.09	54.00	-0.91	AVG	

### REMARKS:

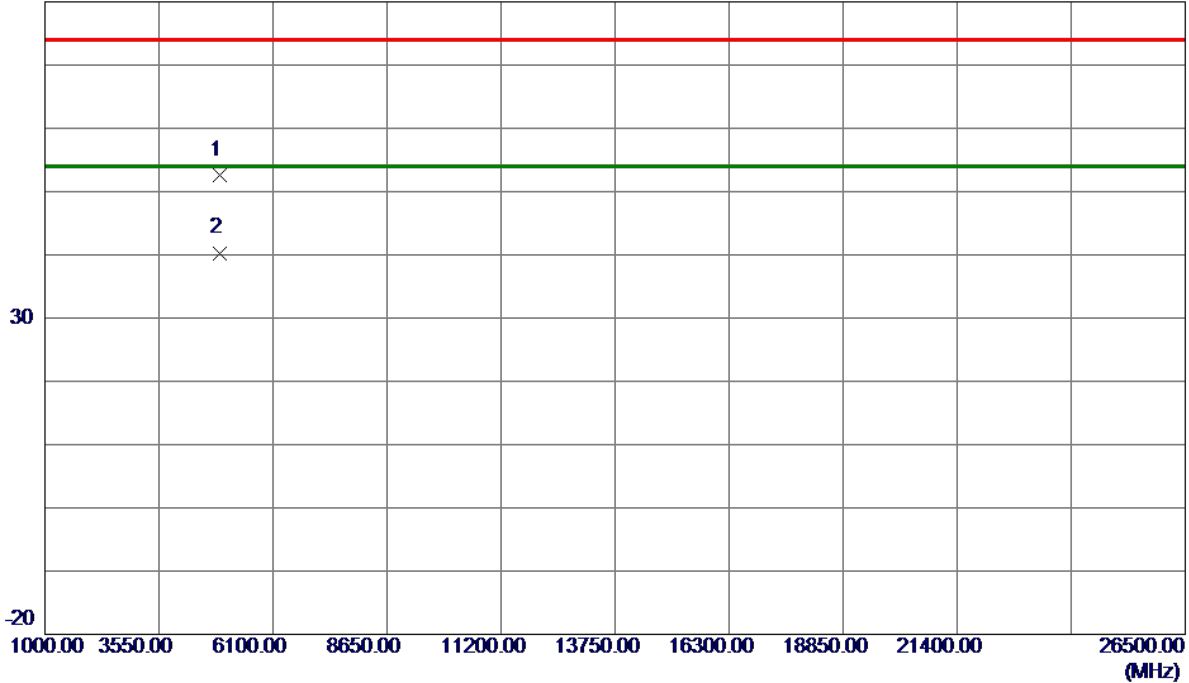
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode:	TX N-40M Mode 2452 MHz
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## 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	4896.4500	44.57	7.98	52.55	74.00	-21.45	Peak	
2 *	4904.0250	32.29	8.01	40.30	54.00	-13.70	AVG	

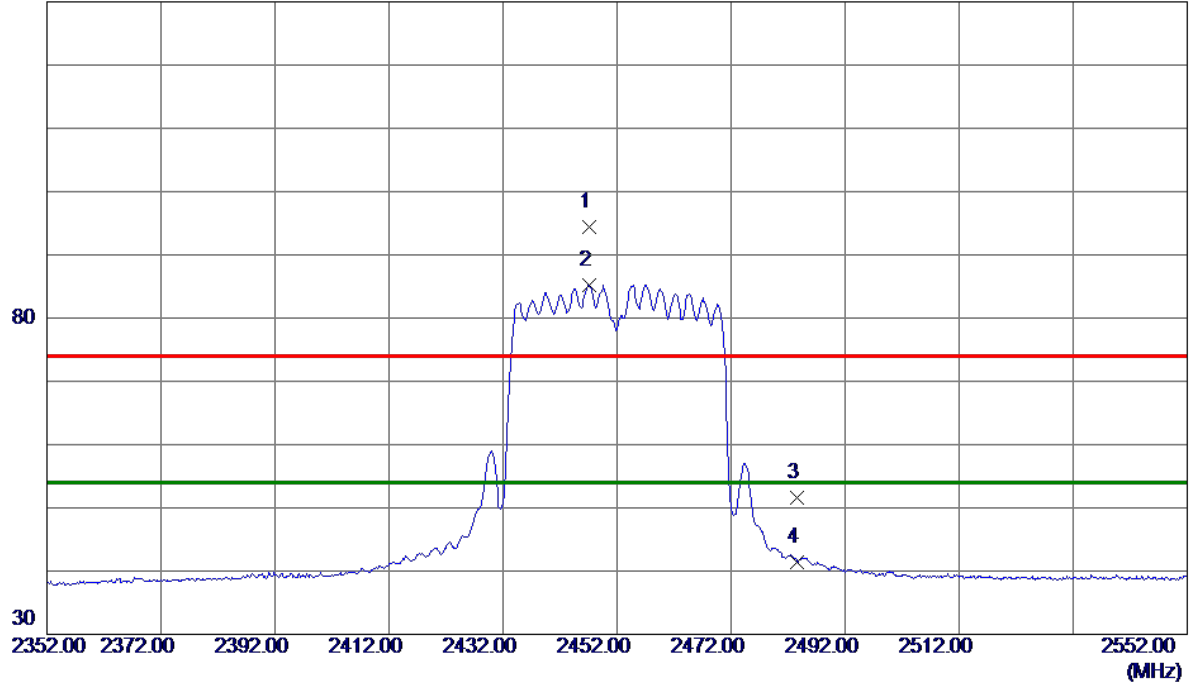
### REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

## Horizontal

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	2447.1000	84.31	10.16	94.47	74.00	20.47	Peak	No Limit
2 *	2447.2000	75.09	10.16	85.25	54.00	31.25	AVG	No Limit
3	2483.5000	41.25	10.30	51.55	74.00	-22.45	Peak	
4	2483.5000	31.15	10.30	41.45	54.00	-12.55	AVG	

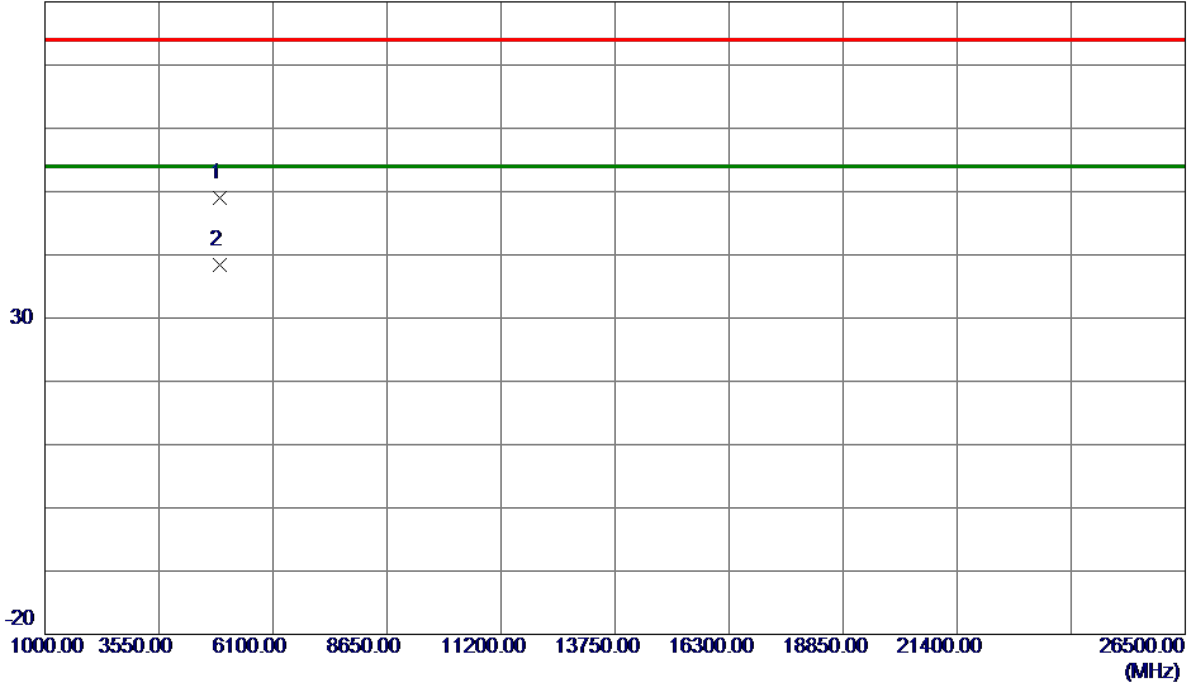
### REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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## 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	4899.0299	40.98	7.99	48.97	74.00	-25.03	Peak	
2 *	4904.1900	30.47	8.02	38.49	54.00	-15.51	AVG	

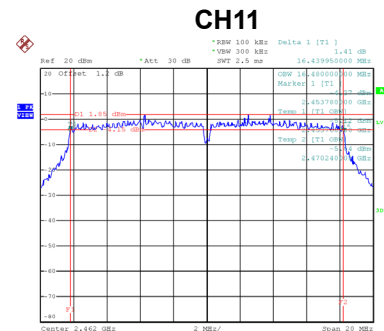
### REMARKS:

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

## **APPENDIX E - BANDWIDTH**



Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.39	500	Complies
06	2437	16.41	500	Complies
11	2462	16.44	500	Complies



Date: 6.DEC.2019 10:49:21

**CH11**

Ref 20 dBm \*Att 30 dB

\*RSMF 300 kHz Marker 1 [T1 ]  
 \*VMW 1 MHz 1.09 dBm  
 JMT 2.0 ms 2.458000000 GHz

10 GHz Ref 1.0 dB

dBm

OSM 14.300000000 GHz  
 Temp: [ T1 CMB]  
 2.457600000 GHz  
 Temp: [ T1 CMB]  
 2.470000000 GHz

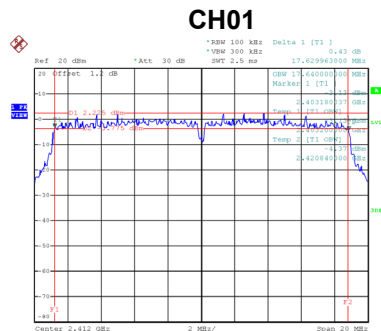
-70 -60 -50 -40 -30 -20 -10 0 10

Center -640 GHz 5 MHz Span 50 MHz

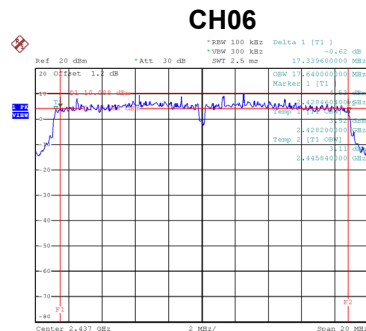
Date: 6.DEC.2019 10:50:35

Test Mode	TX N-20M Mode
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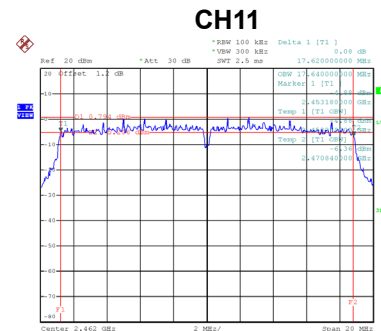
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.63	500	Complies
06	2437	17.34	500	Complies
11	2462	17.62	500	Complies



Date: 6.DEC.2019 10:52:10

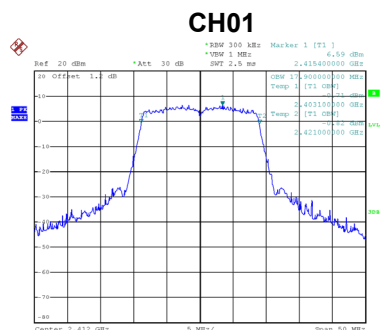


Date: 6.DEC.2019 10:58:32

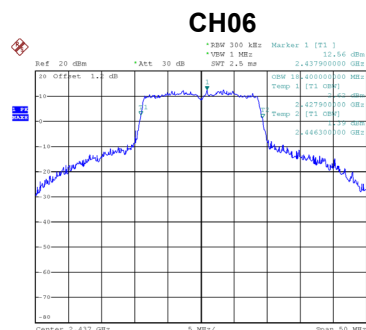


Date: 6.DEC.2019 11:01:27

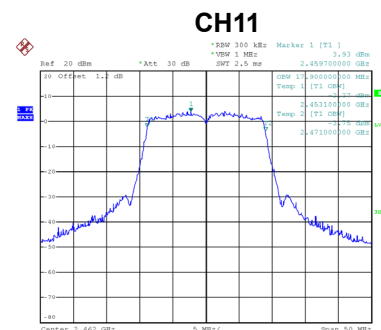
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.90	Complies
06	2437	18.40	Complies
11	2462	17.90	Complies



Date: 6.DEC.2019 10:51:42



Date: 6.DEC.2019 11:00:05



Date: 6.DEC.2019 11:00:59

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.84	500	Complies
06	2437	35.91	500	Complies
09	2452	35.67	500	Complies



Date: 6.DEC.2019 13:58:56





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

Test Mode	TX B Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.54	0.21	20.75	30.00	1.0000	Complies
06	2437	20.87	0.21	21.08	30.00	1.0000	Complies
11	2462	22.02	0.21	22.23	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.03	0.23	16.26	30.00	1.0000	Complies
06	2437	19.88	0.23	20.11	30.00	1.0000	Complies
11	2462	16.49	0.23	16.72	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.95	0.23	16.18	30.00	1.0000	Complies
06	2437	19.73	0.23	19.96	30.00	1.0000	Complies
11	2462	16.27	0.23	16.50	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.23	30.00	1.0000	Complies
06	2437	23.05	30.00	1.0000	Complies
11	2462	19.62	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.26	0.25	15.51	30.00	1.0000	Complies
06	2437	19.97	0.25	20.22	30.00	1.0000	Complies
11	2462	15.34	0.25	15.59	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.18	0.25	15.43	30.00	1.0000	Complies
06	2437	19.84	0.25	20.09	30.00	1.0000	Complies
11	2462	15.41	0.25	15.66	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Total
-----------	---------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.48	30.00	1.0000	Complies
06	2437	23.16	30.00	1.0000	Complies
11	2462	18.63	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	10.97	0.57	11.54	30.00	1.0000	Complies
06	2437	14.35	0.57	14.92	30.00	1.0000	Complies
09	2452	10.87	0.57	11.44	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	10.88	0.57	11.45	30.00	1.0000	Complies
06	2437	13.84	0.57	14.41	30.00	1.0000	Complies
09	2452	10.65	0.57	11.22	30.00	1.0000	Complies

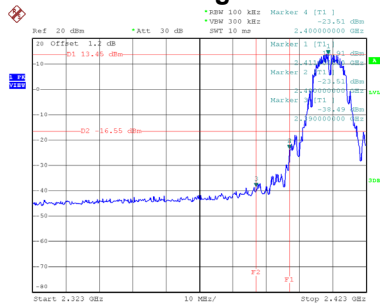
Test Mode	TX N-40M Mode_Total
-----------	---------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.51	30.00	1.0000	Complies
06	2437	17.69	30.00	1.0000	Complies
09	2452	14.35	30.00	1.0000	Complies

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

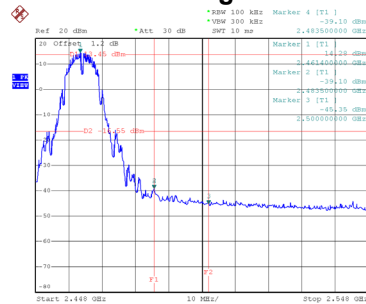
Test Mode TX B Mode

## Bandedge-CH01



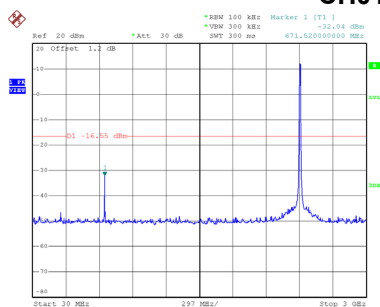
Date: 27.DEC.2019 15:31:55

## Bandedge-CH11

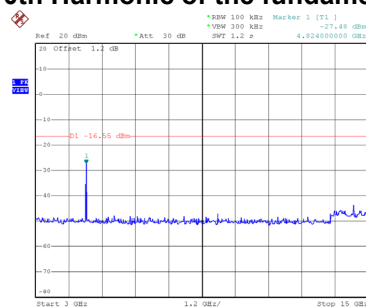


Date: 27.DEC.2019 15:37:03

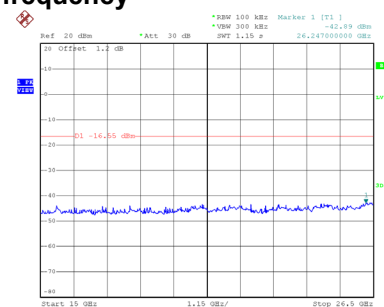
## CH01 – 10th Harmonic of the fundamental frequency



Date: 27.DEC.2019 15:32:35

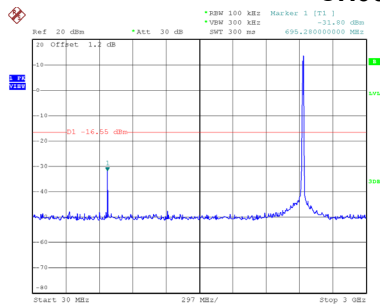


Date: 27.DEC.2019 15:32:54

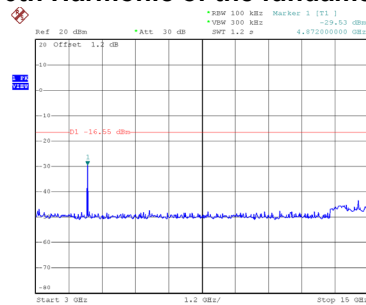


Date: 27.DEC.2019 15:33:45

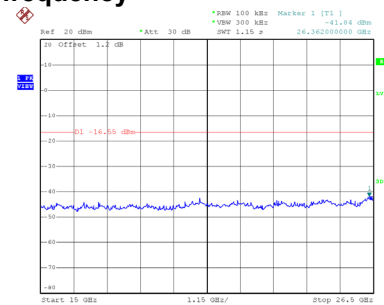
## CH06 – 10th Harmonic of the fundamental frequency



Date: 27.DEC.2019 15:25:26

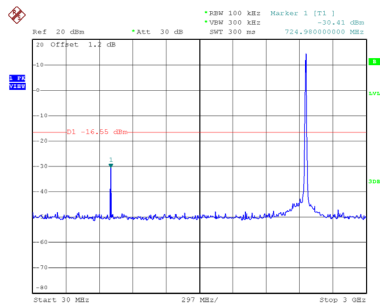


Date: 27.DEC.2019 15:26:06

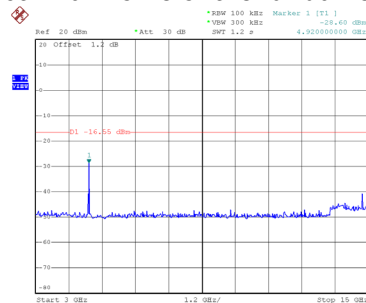


Date: 27.DEC.2019 15:27:05

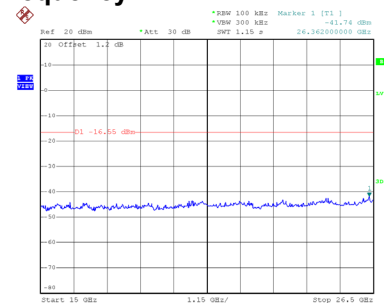
## CH11 – 10th Harmonic of the fundamental frequency



Date: 27.DEC.2019 15:37:55



Date: 27.DEC.2019 15:38:41



Date: 27.DEC.2019 15:39:40