

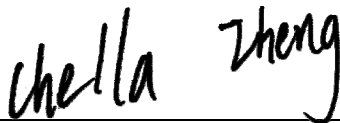
# FCC Radio Test Report

## FCC ID: V7TA27

This report concerns: Original Grant

**Project No.** : 2108C113  
**Equipment** : AX1800 Wi-Fi 6 Range Extender  
**Brand Name** : Tenda  
**Test Model** : A27  
**Series Model** : N/A  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
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**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Date of Receipt** : Aug. 12, 2021  
**Date of Test** : Aug. 13, 2021 ~ Oct. 11, 2021  
Oct. 18, 2021  
**Issued Date** : Oct. 18, 2021  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG202108137 for conducted, DG202108138 for radiated.  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
ANSI C63.10-2013

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



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TESTING CERT #5123.02

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**Limitation**

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

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

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**APPENDIX H - POWER SPECTRAL DENSITY**

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 12, 2021
R01	Added the data of simultaneous transmission.	Oct. 18, 2021

### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

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

## 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of 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	-	3.02
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

### C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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



**1.3 TEST ENVIRONMENT CONDITIONS**

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz AC 240V/50Hz	Laughing Zhang
Radiated Emissions-9kHz to 30 MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30MHz to 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-Above 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Bandwidth	23°C	52%	AC 120V/60Hz	Grani Zhou
Maximum Output Power	23°C	52%	AC 120V/60Hz	Grani Zhou
Conducted Spurious Emissions	23°C	52%	AC 120V/60Hz	Grani Zhou
Power Spectral Density	23°C	52%	AC 120V/60Hz	Grani Zhou

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Wi-Fi 6 Range Extender
Brand Name	Tenda
Test Model	A27
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	100-240V~ 50/60Hz 0.4A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
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 IEEE 802.11ax: up to 573.6 Mbps
Maximum Peak Output Power Non Beamforming	IEEE 802.11n(HT20): 28.40 dBm (0.6918 W)
Maximum Peak Output Power Beamforming	IEEE 802.11n(HT20): 28.15 dBm (0.6531 W)
Maximum Average Output Power Non Beamforming	IEEE 802.11n(HT20): 22.55 dBm (0.1799 W)
Maximum Average Output Power Beamforming	IEEE 802.11n(HT20): 22.30 dBm (0.1698 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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	Tenda	N/A	Dipole	N/A	4.23
2	Tenda	N/A	Dipole	N/A	4.23

Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain =  $G_{ANT} + \text{Array Gain}$ .  
 For power measurements, Array Gain=0dB ( $N_{ANT} \leq 4$ ), so the Directional gain=4.23.  
 For power spectral density measurements,  $N_{ANT}=2$ ,  $N_{SS} = 1$ .  
 So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 4.23 + 10\log(2/1)\text{dBi} = 7.24$ .  
 Then, the power spectral density limit is  $8 - (7.24 - 6) = 6.76$ .
- 2) Beamforming Gain: 3 dB. So Directional gain= $3 + 4.23 = 7.23$ . Then, output power limit is  $30 - (7.23 - 6) = 28.77$ .
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

## 4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode TX Mode	1TX	2TX
	IEEE 802.11b	V (Ant. 1)
IEEE 802.11g	V (Ant. 1)	-
IEEE 802.11n(HT20)	-	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	-	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	-	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	-	V(Ant. 1 + Ant. 2)

For Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX N(HT20) Mode Channel 06

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

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 7	TX N(HT20) Mode Channel 06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 7	TX N(HT20) Mode Channel 06

<b>Radiated emissions test- Above 1GHz_Non Beamforming</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

<b>Maximum Output Power test_Non Beamforming</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

<b>Maximum Output Power test_Beamforming</b>	
Final Test Mode	Description
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

<b>Other Conducted test_Non Beamforming</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

**NOTE:**

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 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.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (6) For radiated emissions, the TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5745MHz was found the worst case of simultaneous transmission and recorded.

**2.3 PARAMETERS OF TEST SOFTWARE**
**Non Beamforming**

Test Software Version	accessMTool_REL_3_1_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	48	61	54
IEEE 802.11g	66	86	68
IEEE 802.11n(HT20)	67	85	72
IEEE 802.11ax(HE20)	54	80	58
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	52	68	70
IEEE 802.11ax(HE40)	53	63	69

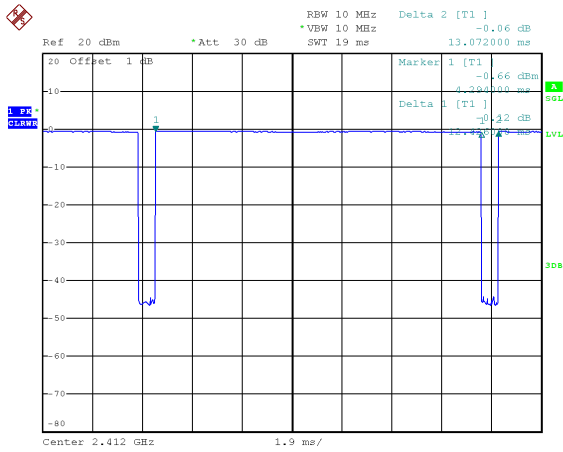
**Beamforming**

Test Software Version	accessMTool_REL_3_1_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	66	84	71
IEEE 802.11ax(HE20)	53	79	57
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	51	67	69
IEEE 802.11ax(HE40)	52	62	68

## 2.4 DUTY CYCLE

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

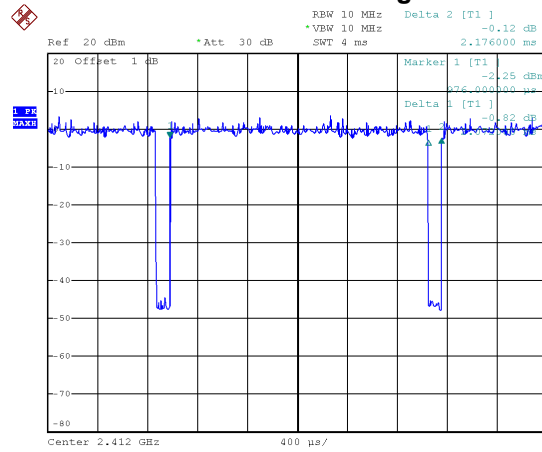
**IEEE 802.11b**



Date: 18.AUG.2021 10:26:49

Duty cycle = 12.426 ms / 13.072 ms = 95.06%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.22$

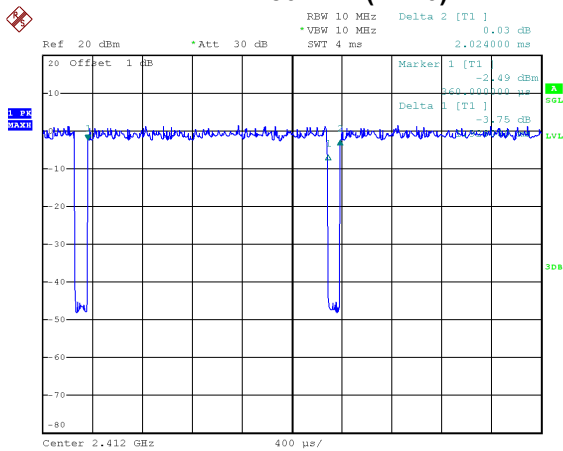
**IEEE 802.11g**



Date: 18.AUG.2021 10:27:54

Duty cycle = 2.072 ms / 2.176 ms = 95.22%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.21$

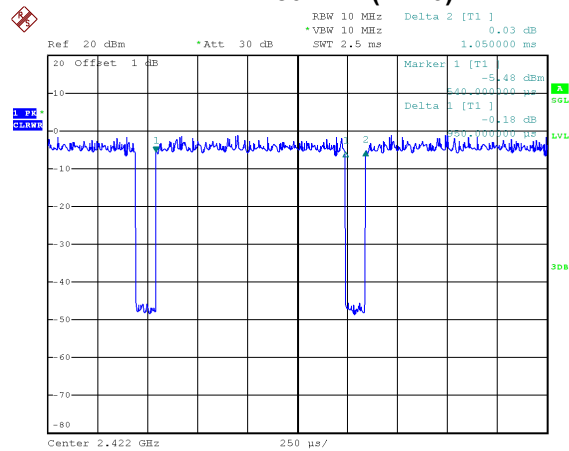
**IEEE 802.11n(HT20)**



Date: 18.AUG.2021 10:29:19

Duty cycle = 1.928 ms / 2.024 ms = 95.26%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.21$

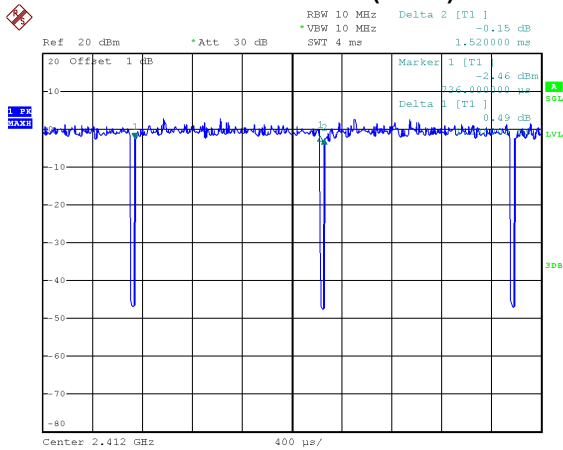
**IEEE 802.11n(HT40)**



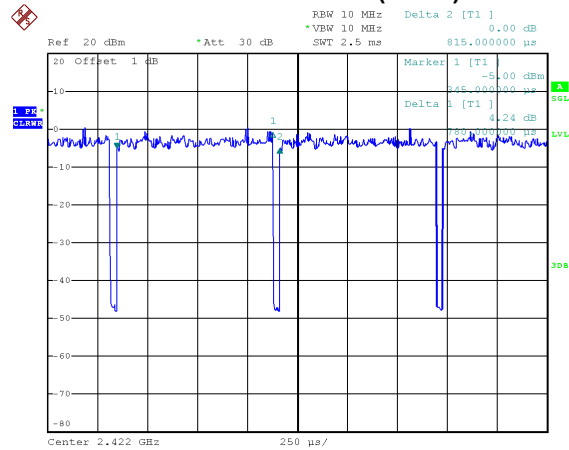
Date: 18.AUG.2021 10:30:06

Duty cycle = 0.950 ms / 1.050 ms = 90.48%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.43$

### IEEE 802.11ax(HE20)



### IEEE 802.11ax(HE40)



Date: 18.AUG.2021 10:31:14

Date: 18.AUG.2021 10:31:45

Duty cycle = 1.488 ms / 1.520 ms = 97.89%  
 Duty Factor = 10 log(1/Duty cycle) = 0.09

Duty cycle = 0.780 ms / 0.815 ms = 95.71%  
 Duty Factor = 10 log(1/Duty cycle) = 0.19

**NOTE:**

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 80 Hz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 483 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 519 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1053 Hz.

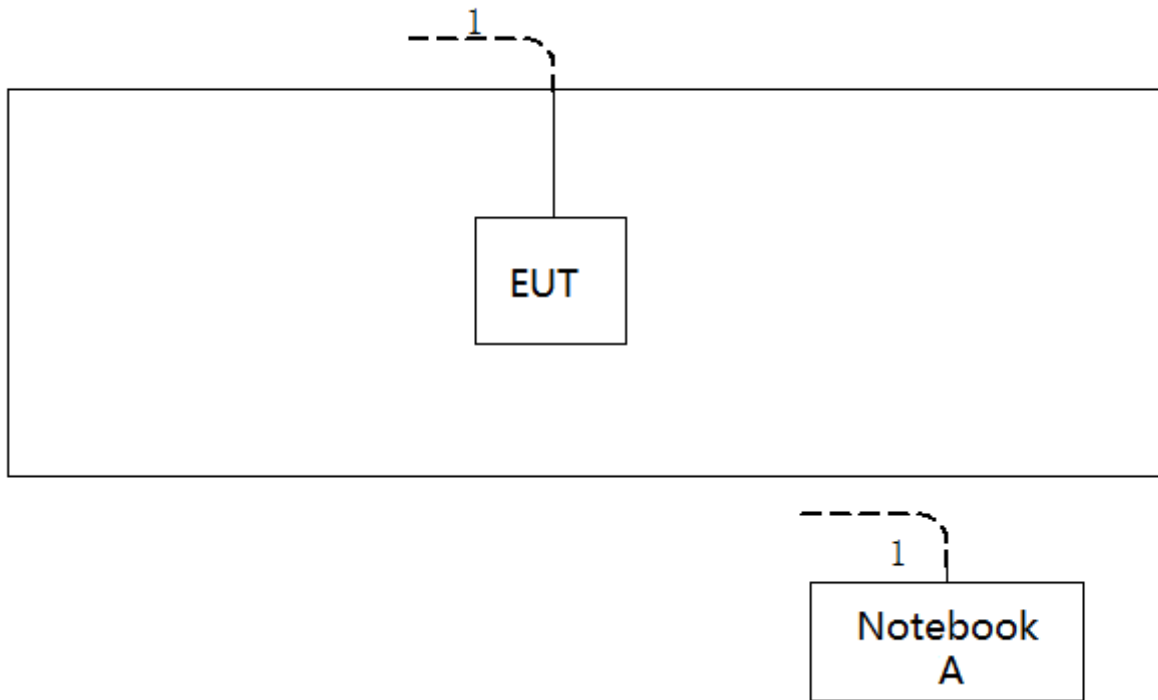
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 672 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1282 Hz.



**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	RJ45 Cable	NO	NO	10m

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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.

#### 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.

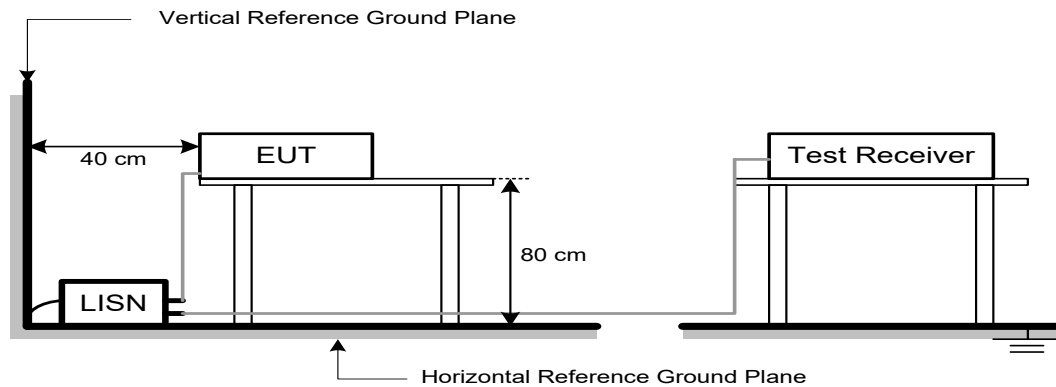
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 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

### 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 CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 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.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

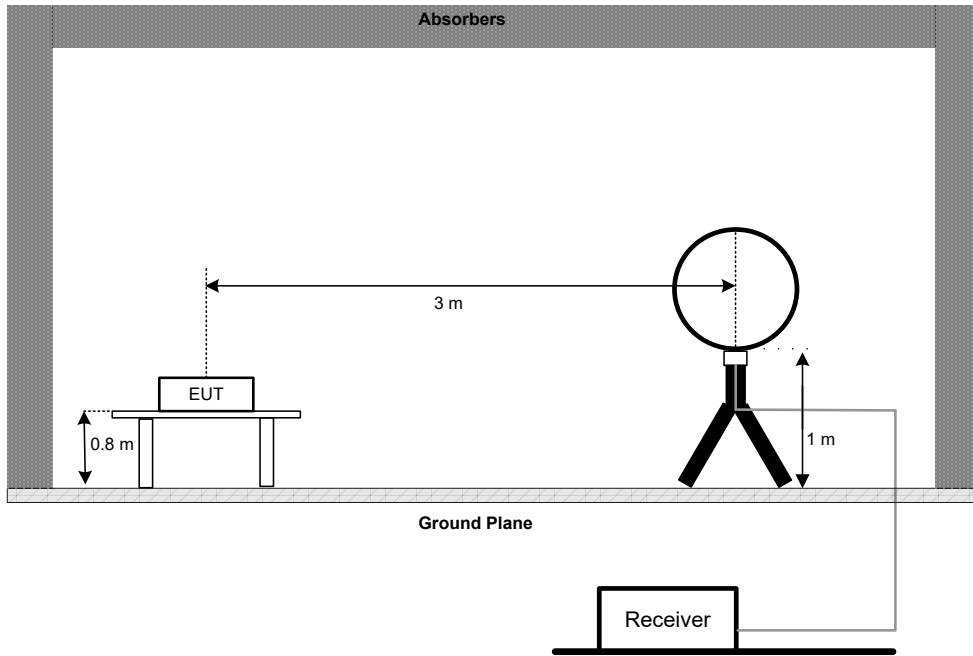
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

### 4.3 DEVIATION FROM TEST STANDARD

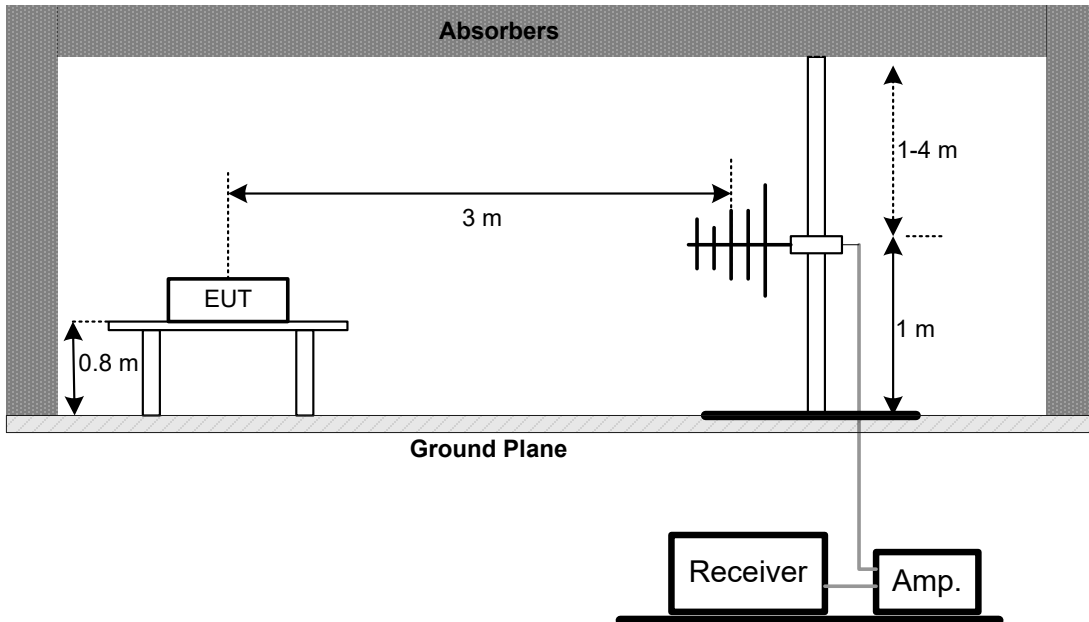
No deviation.

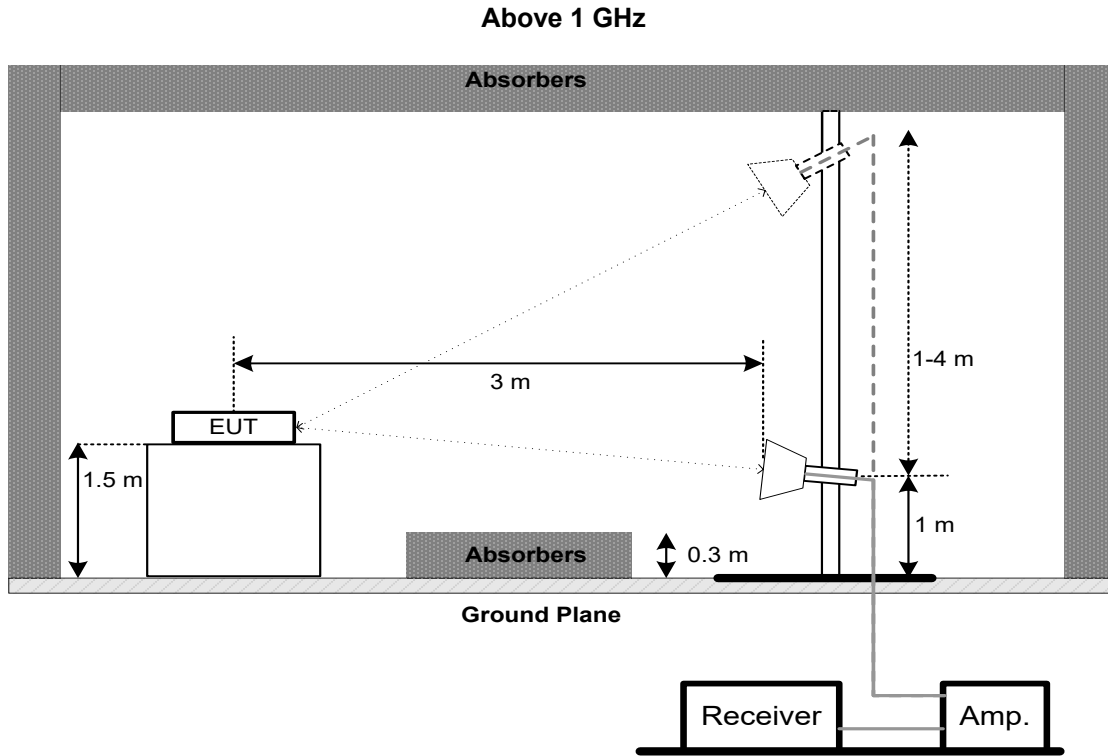
### 4.4 TEST SETUP

#### 9 kHz to 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

### 5.1 LIMIT

Section	Test Item	Limit
FCC 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.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.



## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

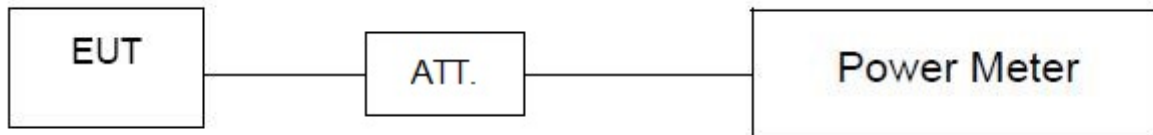
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 and 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

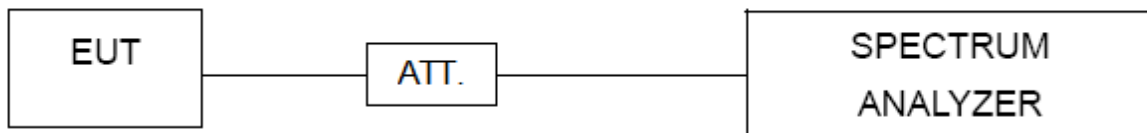
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
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

### 8.1 LIMIT

Section	Test Item	Limit
FCC 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.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 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	Feb. 28, 2022
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 09, 2022
7	643 Shield Room	ETS	6*4*3m	N/A	N/A

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	Apr. 28, 2022
2	Cable	N/A	RG 213/U	N/A	May 27, 2022
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022

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. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022
3	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 20, 2022
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	N/A	EMC104-SM-SM-6000	N/A	Oct. 15, 2022
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
11	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

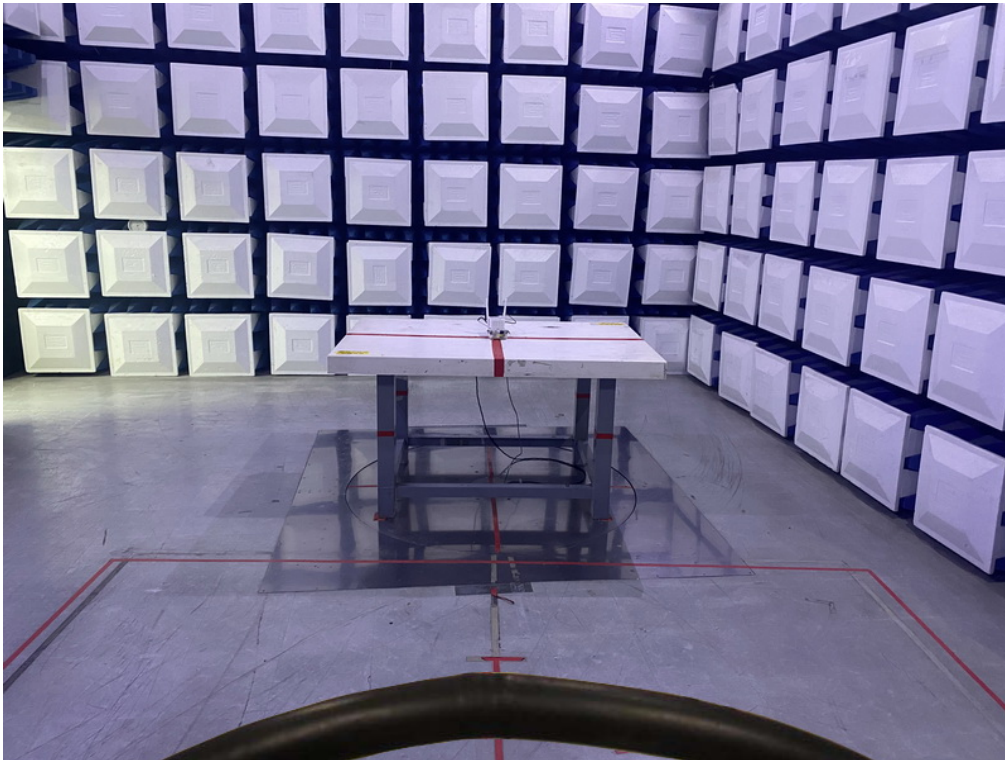
Remark: "N/A" denotes no model name, serial no. or calibration specified.

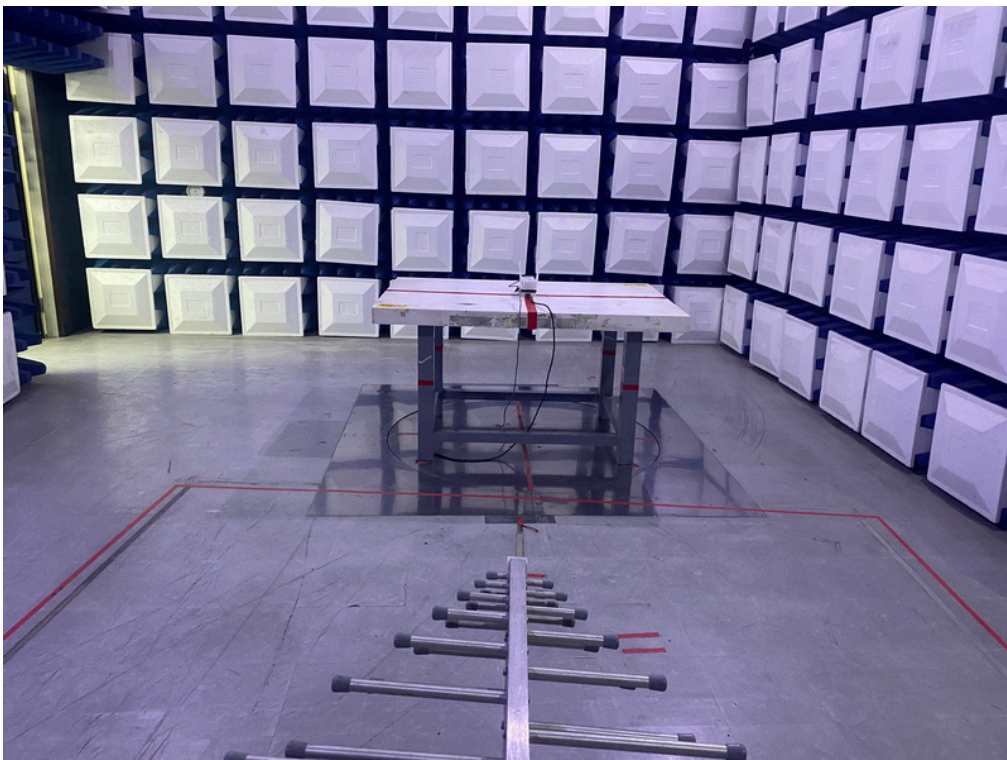
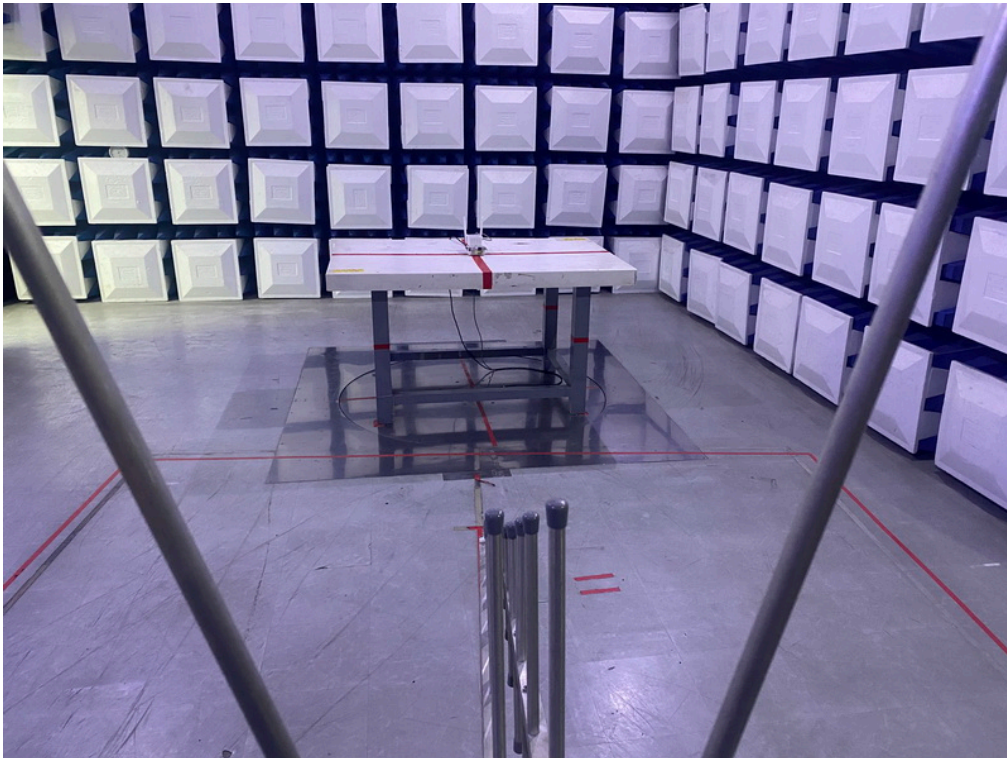
All calibration period of equipment list is one year.

**10. EUT TEST PHOTO**

**AC Power Line Conducted Emissions Test Photos**



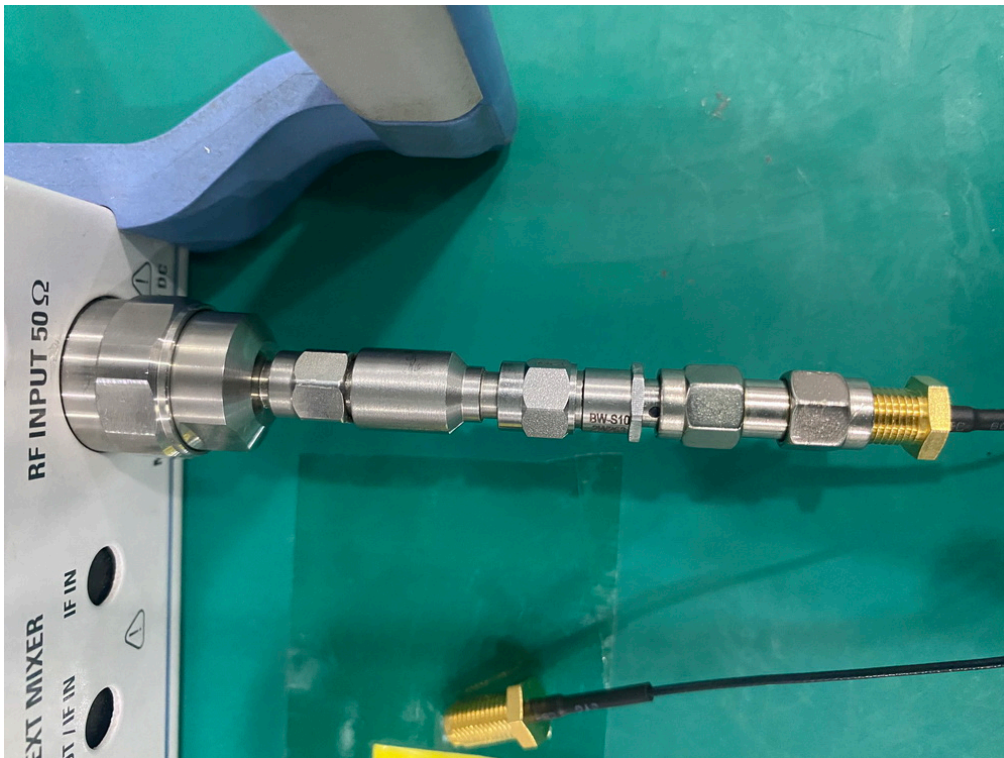
**Radiated Emissions Test Photos****9 kHz to 30 MHz**

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



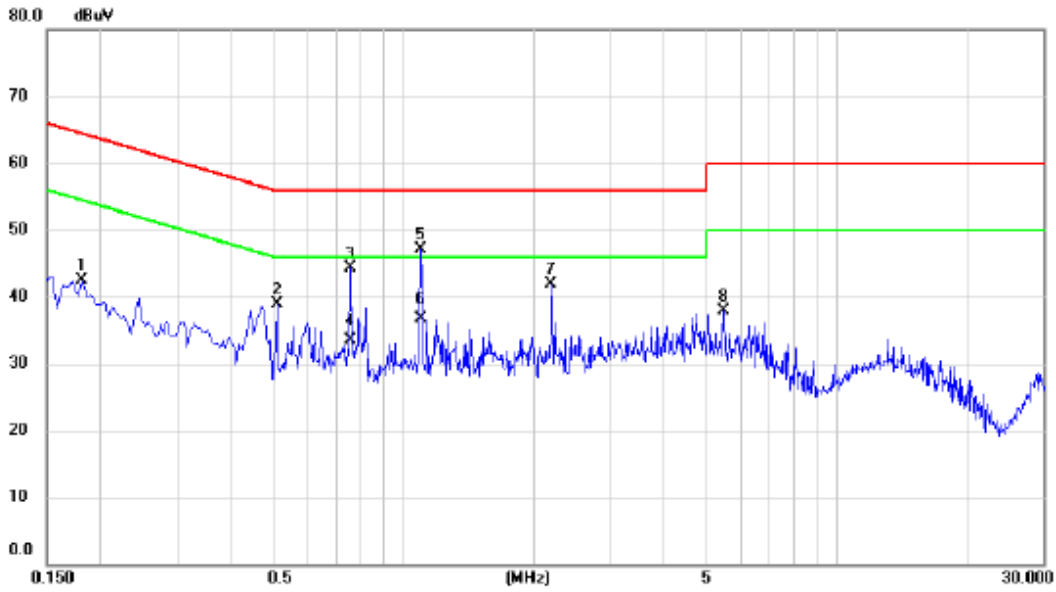
**Radiated Emissions Test Photos****Above 1 GHz**

### Conducted Test Photos



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

Test Voltage	AC 120V/60Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Line

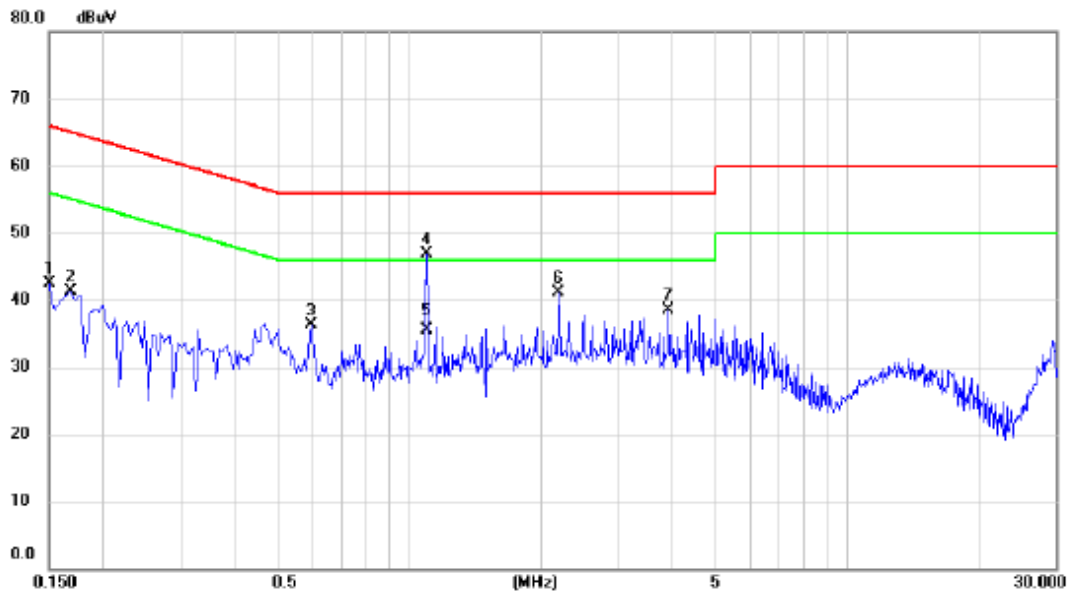


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1815	32.58	9.85	42.43	64.42	-21.99	peak	
2		0.5100	29.06	9.93	38.99	56.00	-17.01	peak	
3		0.7530	34.39	9.91	44.30	56.00	-11.70	peak	
4		0.7530	23.60	9.91	33.51	46.00	-12.49	AVG	
5	*	1.0995	37.14	9.99	47.13	56.00	-8.87	peak	
6		1.0995	26.80	9.99	36.79	46.00	-9.21	AVG	
7		2.1975	31.88	10.06	41.94	56.00	-14.06	peak	
8		5.4780	27.69	10.31	38.00	60.00	-22.00	peak	

**REMARKS:**

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

Test Voltage	AC 120V/60Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral

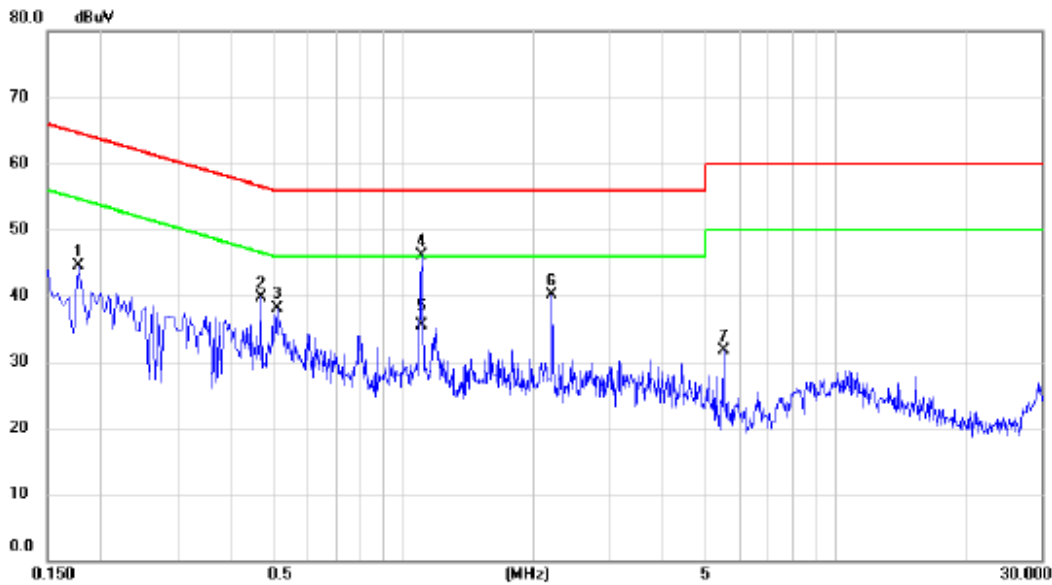


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.69	9.74	42.43	66.00	-23.57	peak	
2		0.1680	31.45	9.88	41.33	65.06	-23.73	peak	
3		0.5955	26.10	10.17	36.27	56.00	-19.73	peak	
4	*	1.0950	36.53	10.28	46.81	56.00	-9.19	peak	
5		1.0950	25.30	10.28	35.58	46.00	-10.42	AVG	
6		2.1930	30.66	10.39	41.05	56.00	-14.95	peak	
7		3.9120	28.02	10.54	38.56	56.00	-17.44	peak	

**REMARKS:**

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

Test Voltage	AC 240V/50Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Line

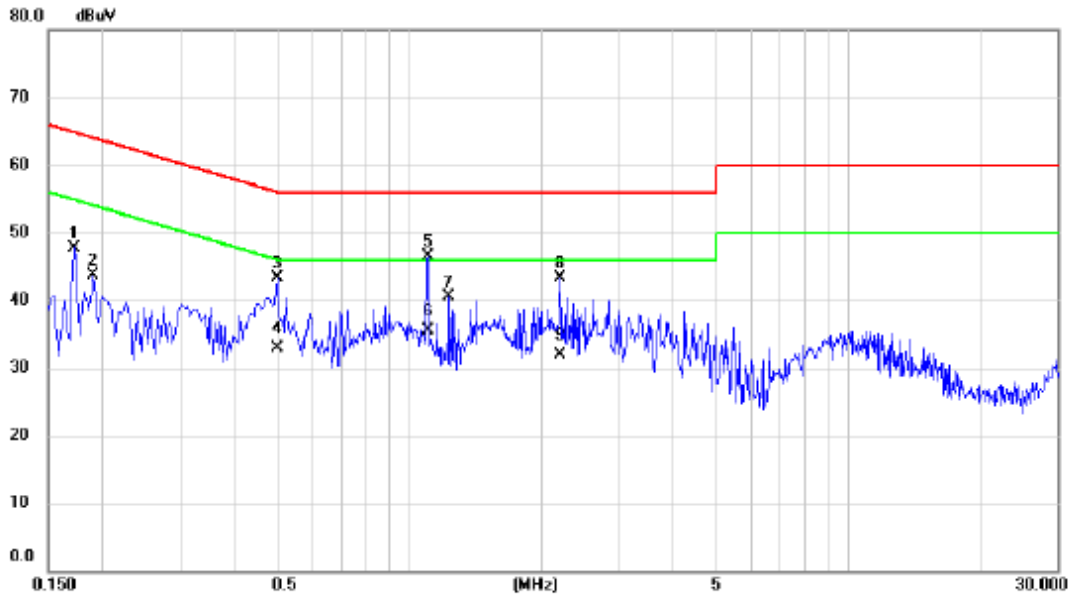


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1770	34.71	9.84	44.55	64.63	-20.08	peak	
2		0.4695	29.71	9.92	39.63	56.52	-16.89	peak	
3		0.5100	28.16	9.93	38.09	56.00	-17.91	peak	
4	*	1.1040	36.10	9.99	46.09	56.00	-9.91	peak	
5		1.1040	25.60	9.99	35.59	46.00	-10.41	AVG	
6		2.2065	30.12	10.06	40.18	56.00	-15.82	peak	
7		5.5185	21.35	10.32	31.67	60.00	-28.33	peak	

**REMARKS:**

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

Test Voltage	AC 240V/50Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1725	37.89	9.91	47.80	64.84	-17.04	peak	
2		0.1905	33.74	9.98	43.72	64.01	-20.29	peak	
3		0.5010	33.26	10.12	43.38	56.00	-12.62	peak	
4		0.5010	22.70	10.12	32.82	46.00	-13.18	AVG	
5	*	1.1040	36.12	10.29	46.41	56.00	-9.59	peak	
6		1.1040	25.30	10.29	35.59	46.00	-10.41	AVG	
7		1.2300	30.17	10.29	40.46	56.00	-15.54	peak	
8		2.2020	32.88	10.39	43.27	56.00	-12.73	peak	
9		2.2020	21.60	10.39	31.99	46.00	-14.01	AVG	

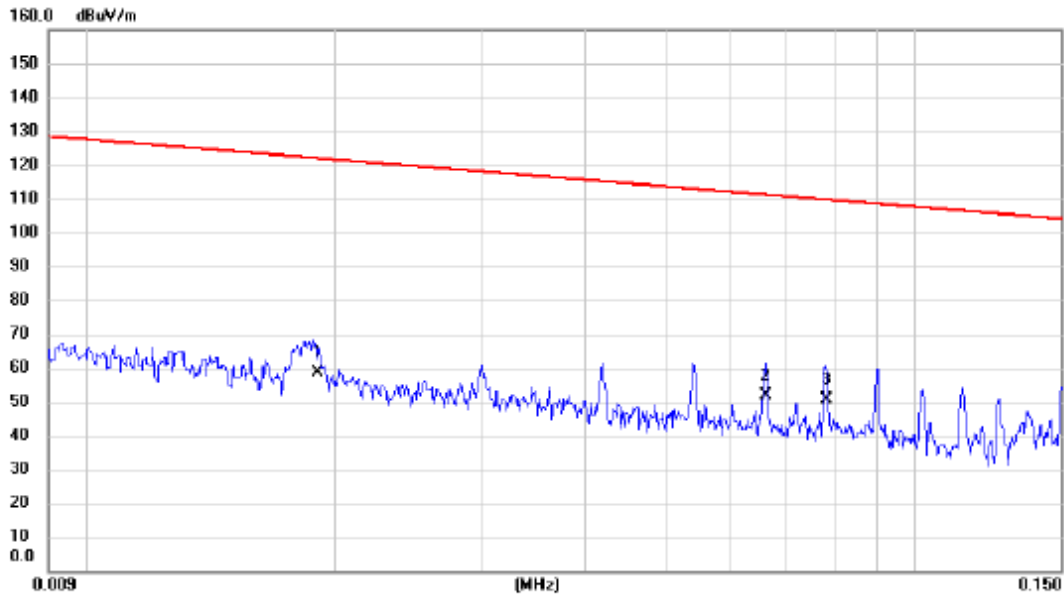
**REMARKS:**

- (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 N(HT20) Mode Channel 06	Polarization	Ant 0°
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.0190	43.72	14.72	58.44	122.03	-63.59	AVG			
2	0.0660	37.94	13.73	51.67	111.21	-59.54	AVG			
3 *	0.0781	36.85	13.75	50.60	109.75	-59.15	AVG			

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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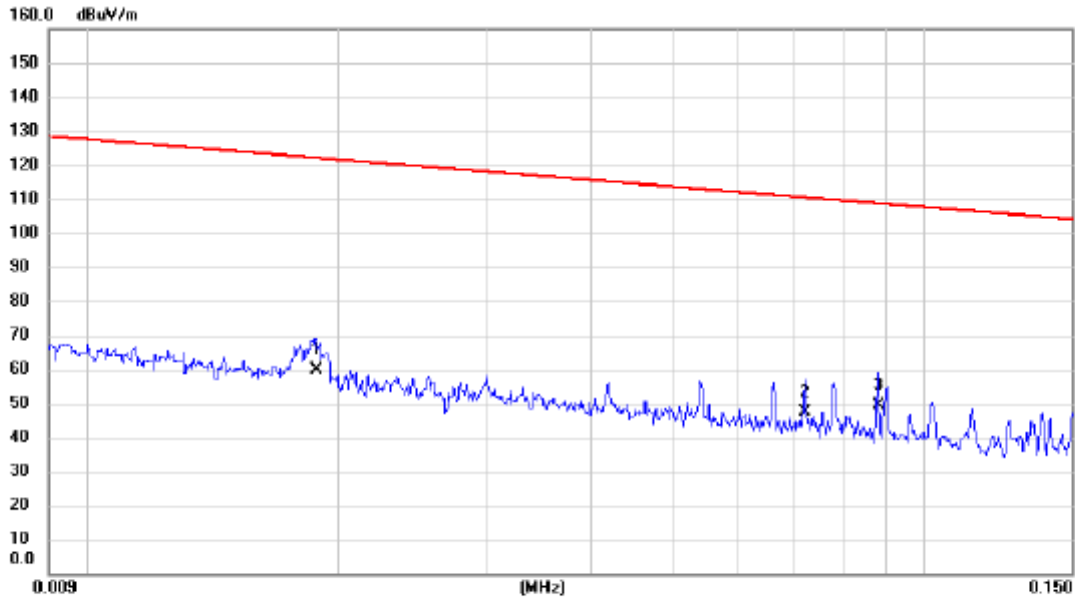


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		0.4492	47.32	13.61	60.93	94.56	-33.63	AVG		
2	*	2.2250	35.61	12.18	47.79	69.54	-21.75	QP		
3		4.3606	34.72	12.06	46.78	69.54	-22.76	QP		

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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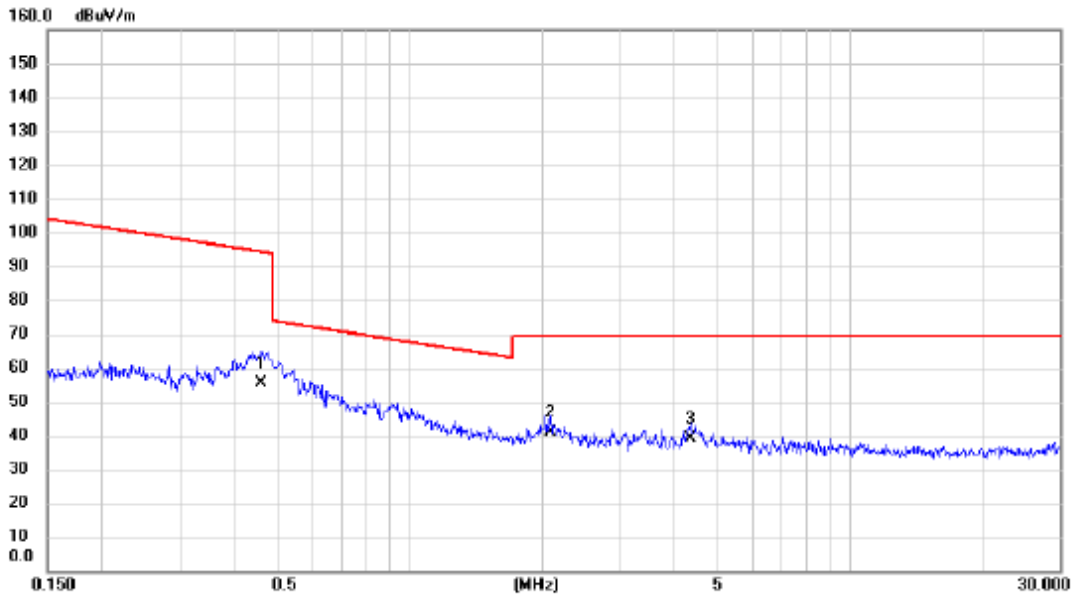


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0188	44.82	14.79	59.61	122.12	-62.51	AVG		
2		0.0720	33.59	13.73	47.32	110.46	-63.14	AVG		
3	*	0.0881	35.75	13.77	49.52	108.71	-59.19	AVG		

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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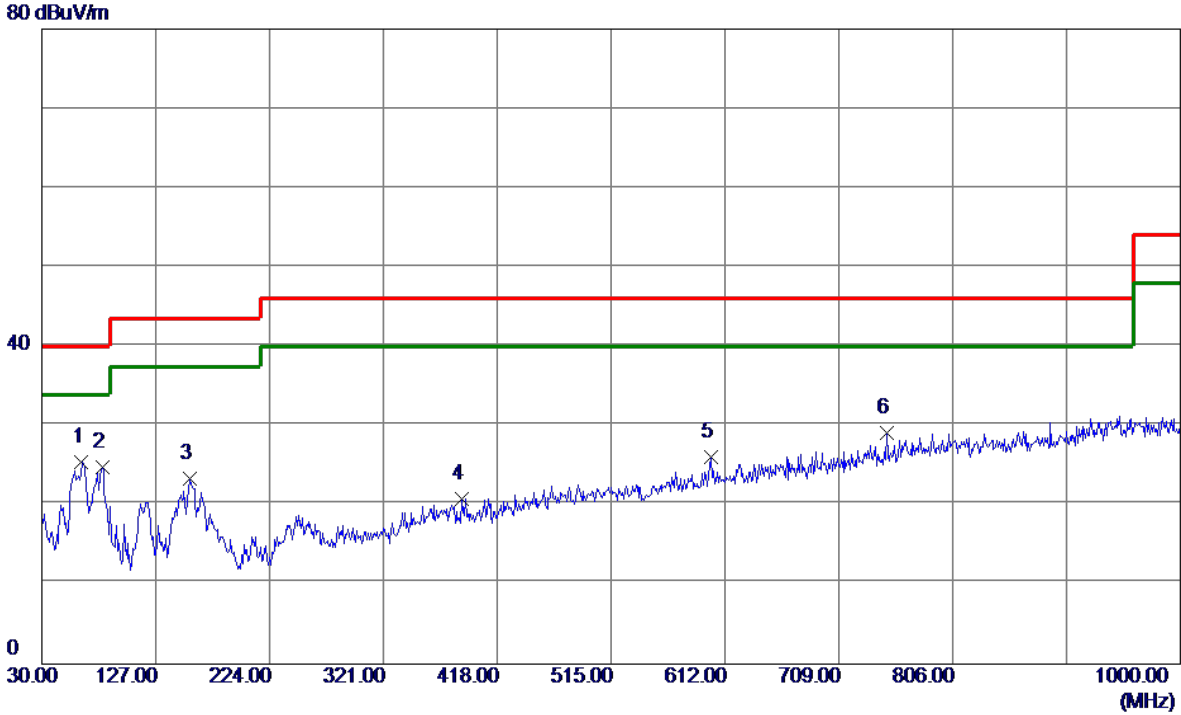
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.4612	41.67	13.59	55.26	94.33	-39.07	AVG			
2 *	2.0880	28.93	12.22	41.15	69.54	-28.39	QP			
3	4.3376	26.81	12.06	38.87	69.54	-30.67	QP			

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 N(HT20) Mode Channel 06	Polarization	Vertical
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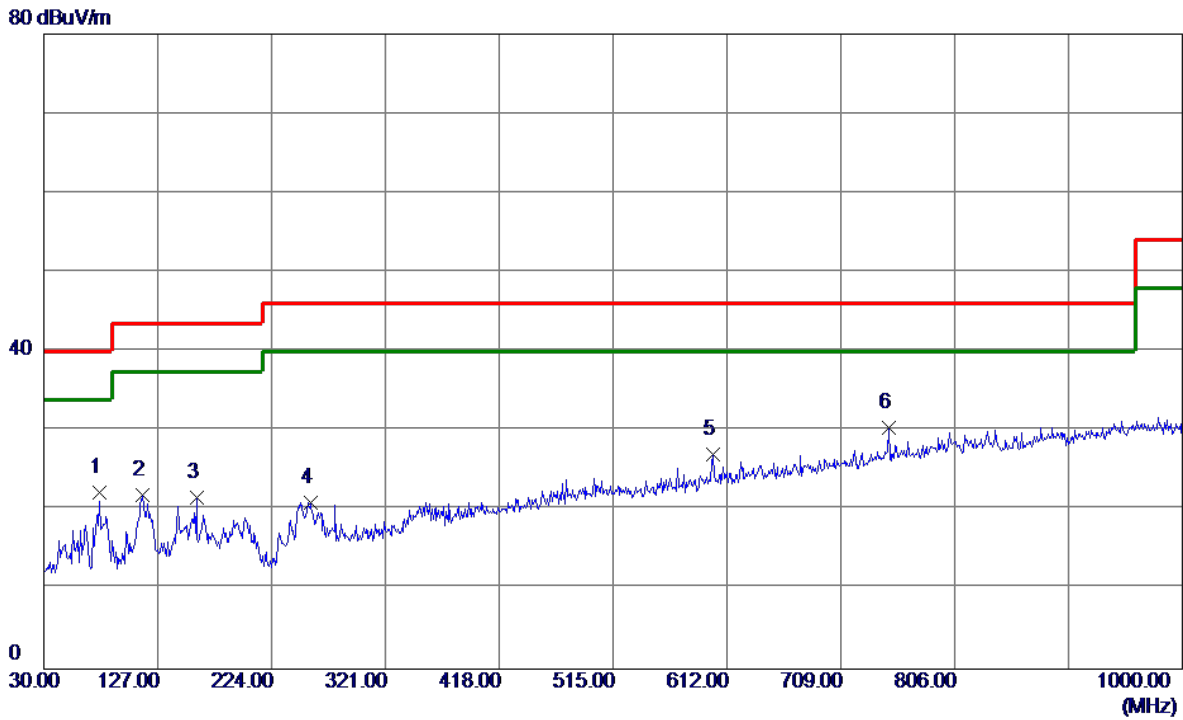


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	63.9500	40.52	-15.06	25.46	40.00	-14.54	Peak	
2	81.4100	43.22	-18.46	24.76	40.00	-15.24	Peak	
3	156.1000	35.85	-12.47	23.38	43.50	-20.12	Peak	
4	387.9300	29.91	-9.06	20.85	46.00	-25.15	Peak	
5	600.3600	30.65	-4.54	26.11	46.00	-19.89	Peak	
6	749.7400	31.04	-1.95	29.09	46.00	-16.91	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	77.5300	40.04	-17.85	22.19	40.00	-17.81	Peak	
2	114.3900	36.52	-14.65	21.87	43.50	-21.63	Peak	
3	159.9800	34.00	-12.37	21.63	43.50	-21.87	Peak	
4	256.9800	33.70	-12.67	21.03	46.00	-24.97	Peak	
5	600.3600	31.64	-4.54	27.10	46.00	-18.90	Peak	
6 *	749.7400	32.36	-1.95	30.41	46.00	-15.59	Peak	

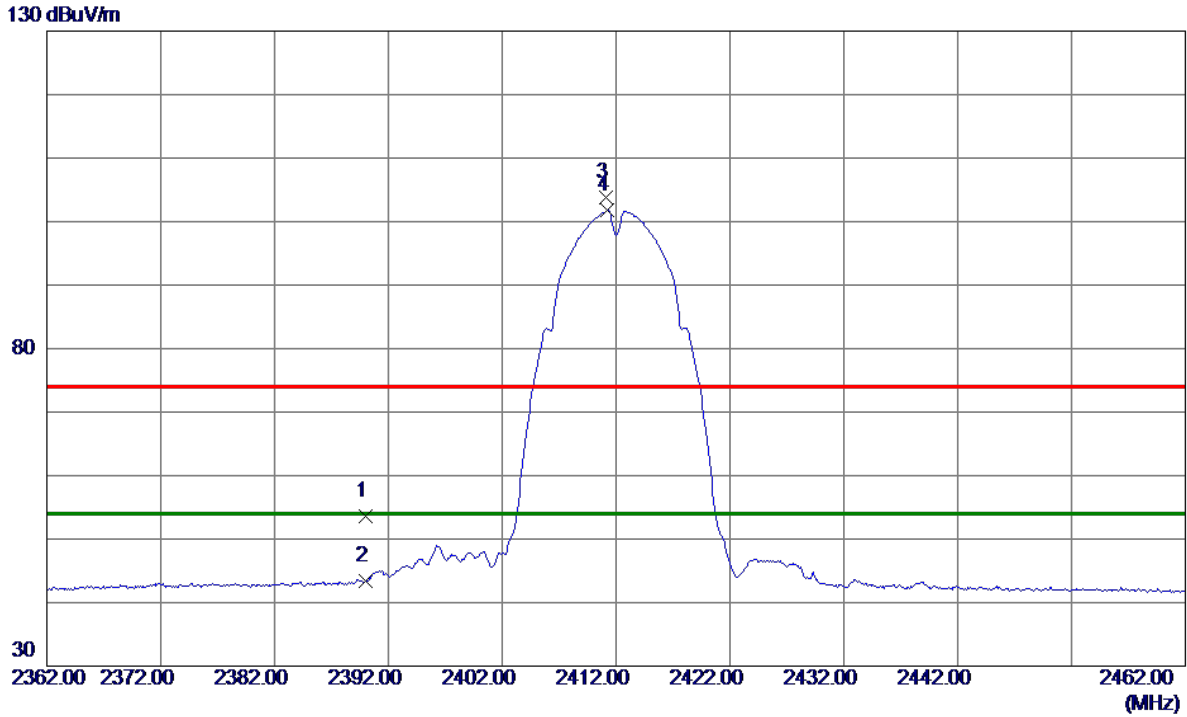
**REMARKS:**

- (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	Polarization	Vertical
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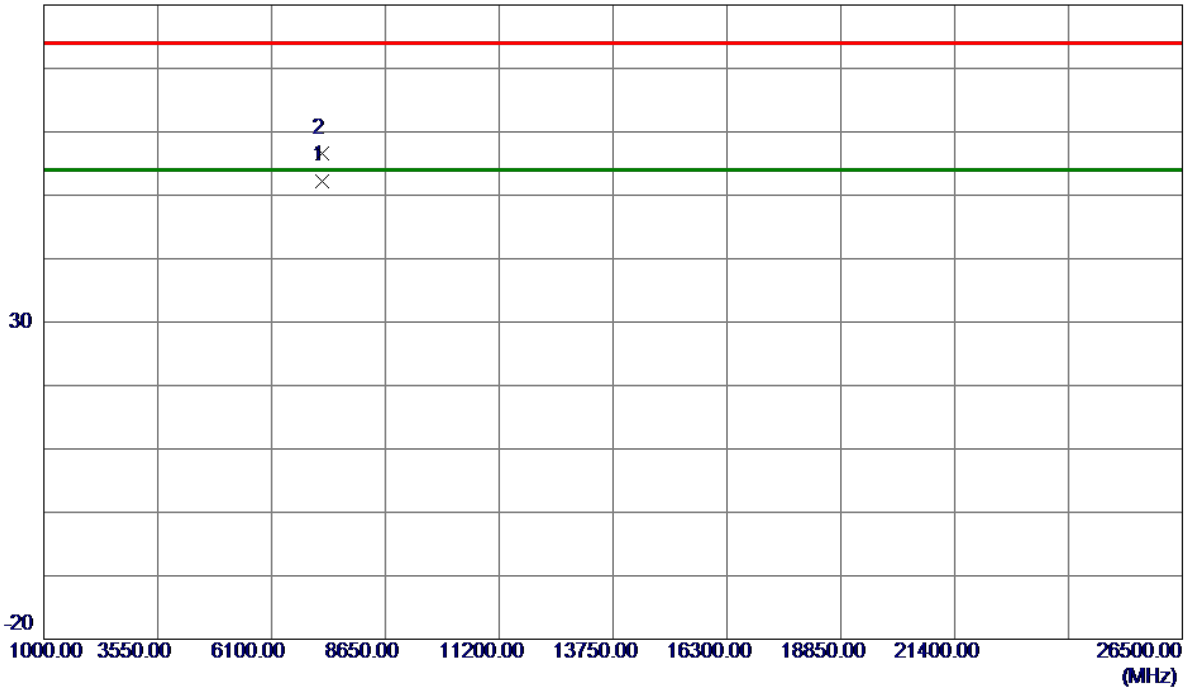
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.27	8.31	53.58	74.00	-20.42	Peak	
2	2390.0000	35.03	8.31	43.34	54.00	-10.66	AVG	
3	2411.1000	95.44	8.33	103.77	74.00	29.77	Peak	No Limit
4 *	2411.2000	93.39	8.33	101.72	54.00	47.72	AVG	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

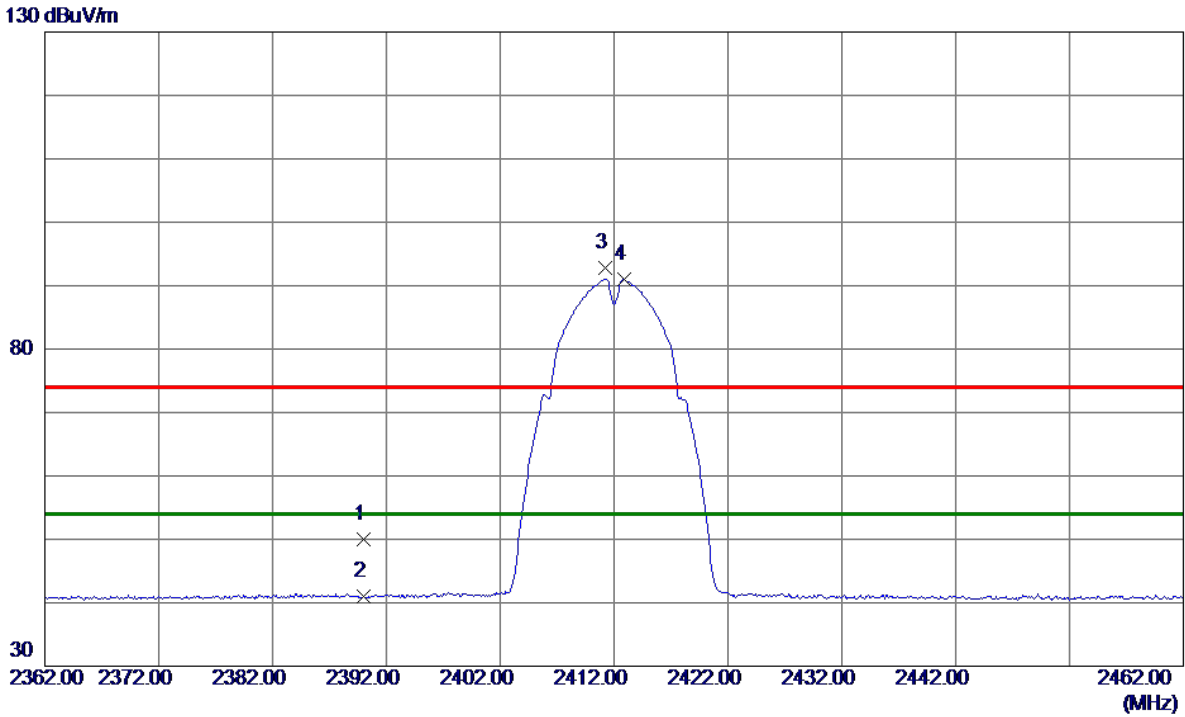


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7236.8550	41.70	10.60	52.30	54.00	-1.70	AVG	
2	7237.0100	45.95	10.60	56.55	74.00	-17.45	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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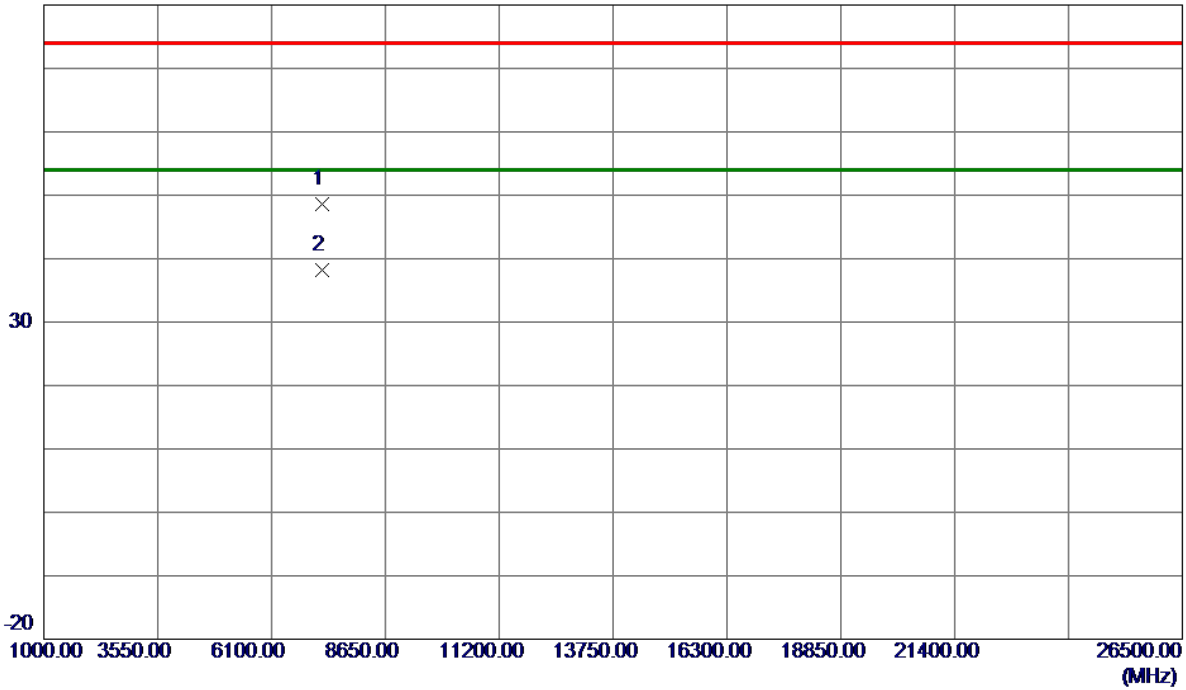
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.75	8.31	50.06	74.00	-23.94	Peak	
2	2390.0000	32.67	8.31	40.98	54.00	-13.02	AVG	
3	2411.2000	84.55	8.33	92.88	74.00	18.88	Peak	No Limit
4 *	2412.9000	82.70	8.33	91.03	54.00	37.03	AVG	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

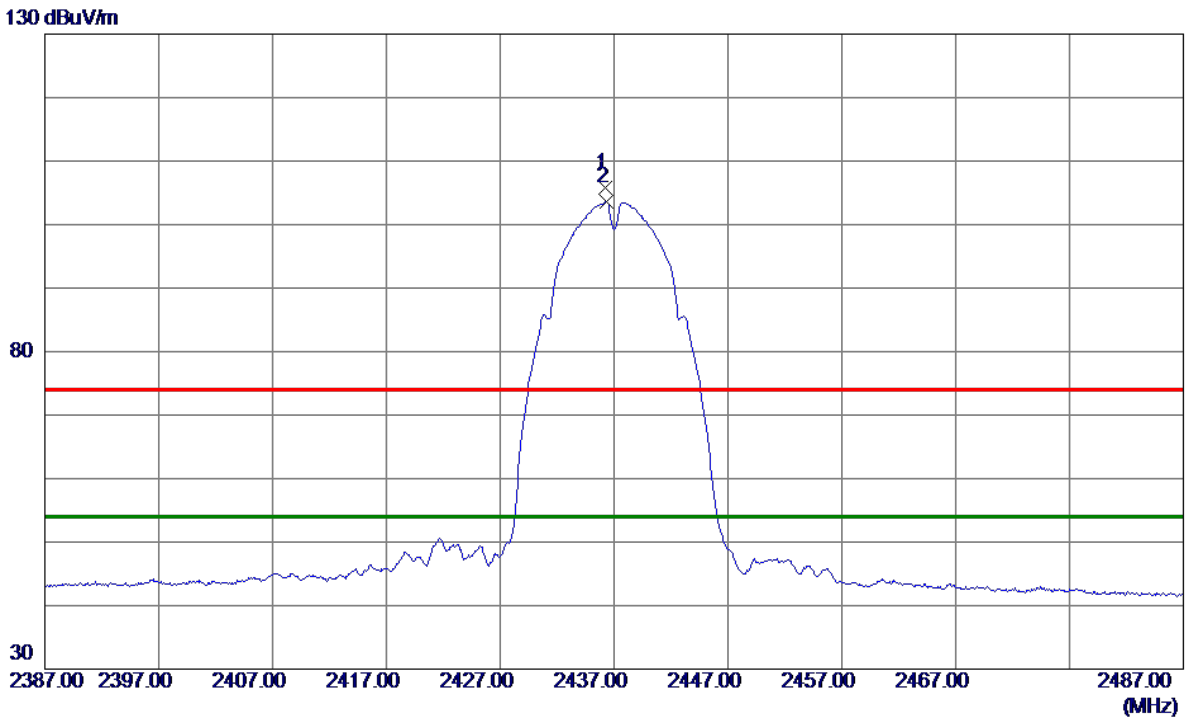


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7233.9350	37.99	10.59	48.58	74.00	-25.42	Peak	
2 *	7236.9850	27.69	10.60	38.29	54.00	-15.71	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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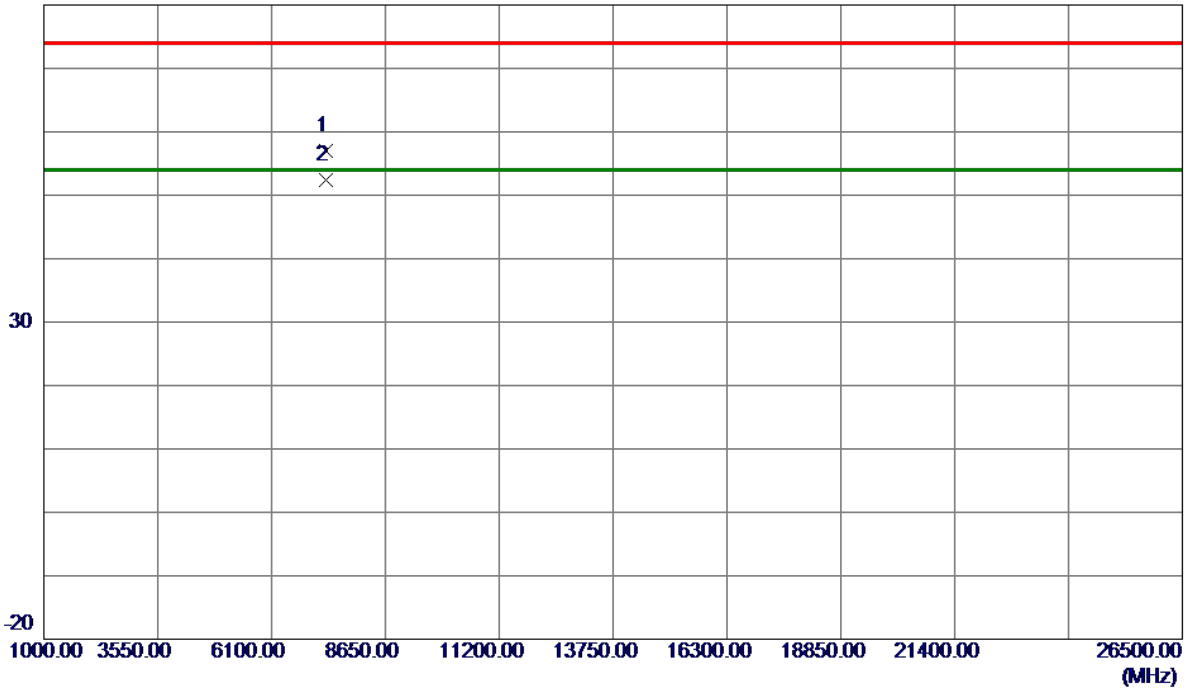
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.2000	97.48	8.36	105.84	74.00	31.84	Peak	No Limit
2 *	2436.3000	95.19	8.36	103.55	54.00	49.55	AVG	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

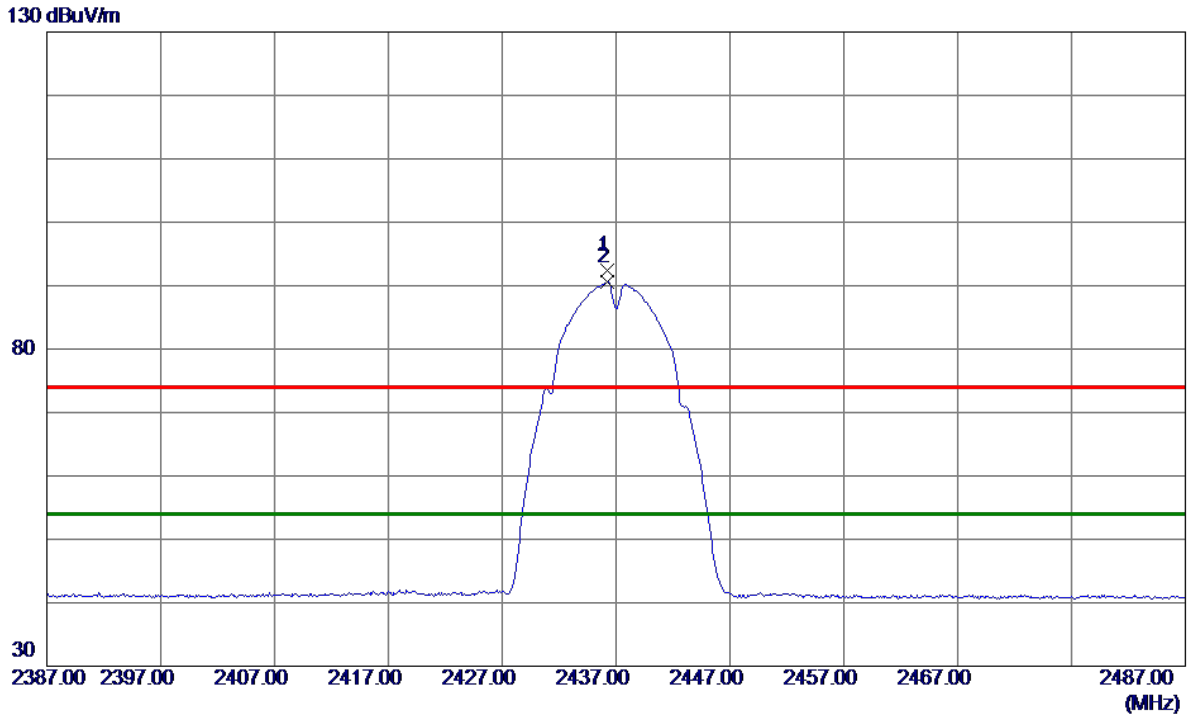


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7310.4850	46.28	10.69	56.97	74.00	-17.03	Peak	
2 *	7311.8600	41.68	10.70	52.38	54.00	-1.62	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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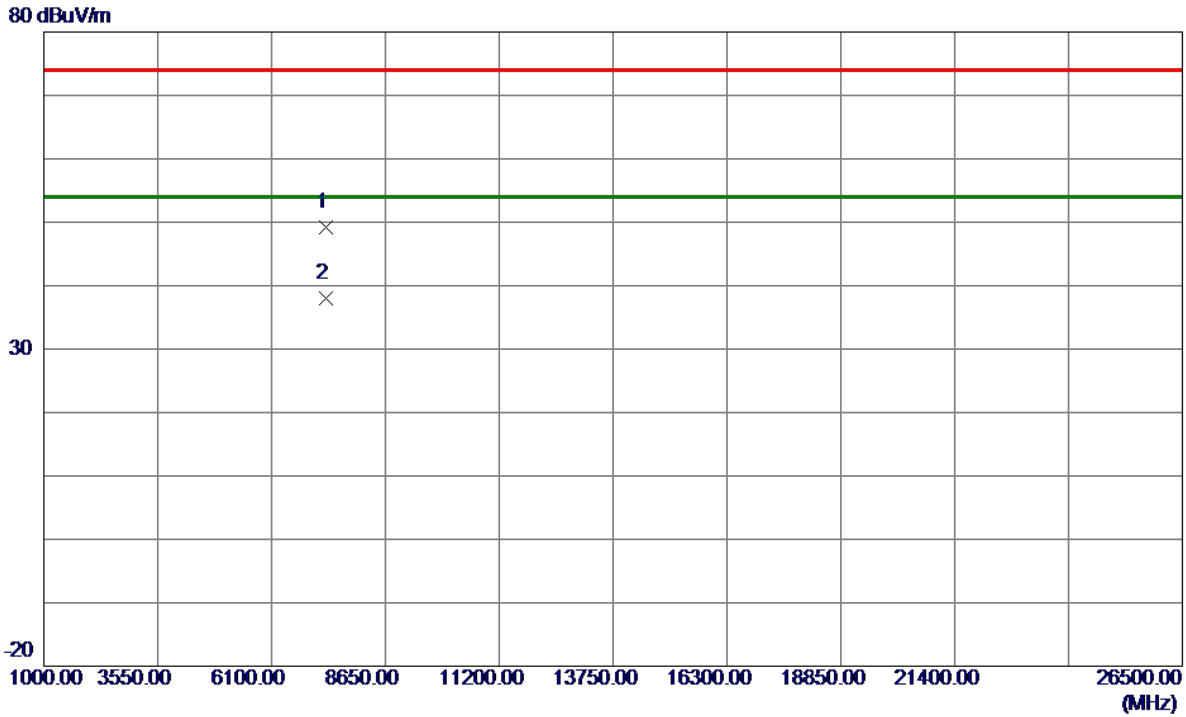


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.2000	84.13	8.36	92.49	74.00	18.49	Peak	No Limit
2 *	2436.2000	82.22	8.36	90.58	54.00	36.58	AVG	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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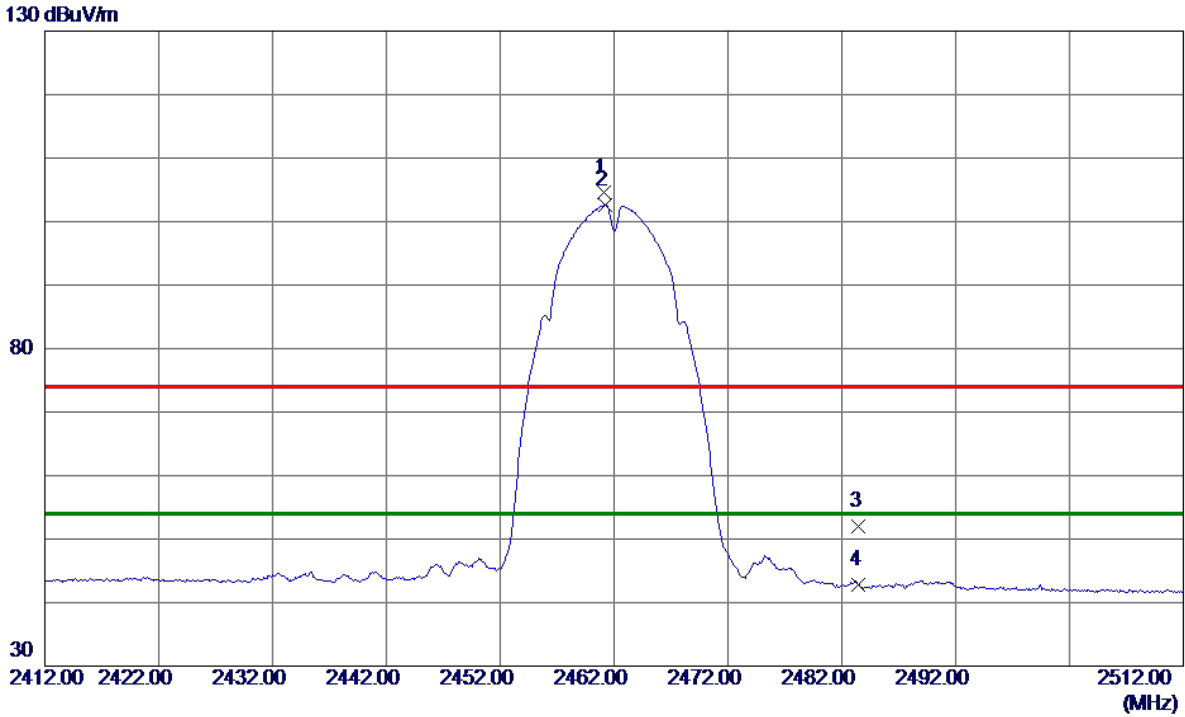
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7307.0300	38.60	10.69	49.29	74.00	-24.71	Peak	
2 *	7309.9400	27.30	10.69	37.99	54.00	-16.01	AVG	

**REMARKS:**

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



Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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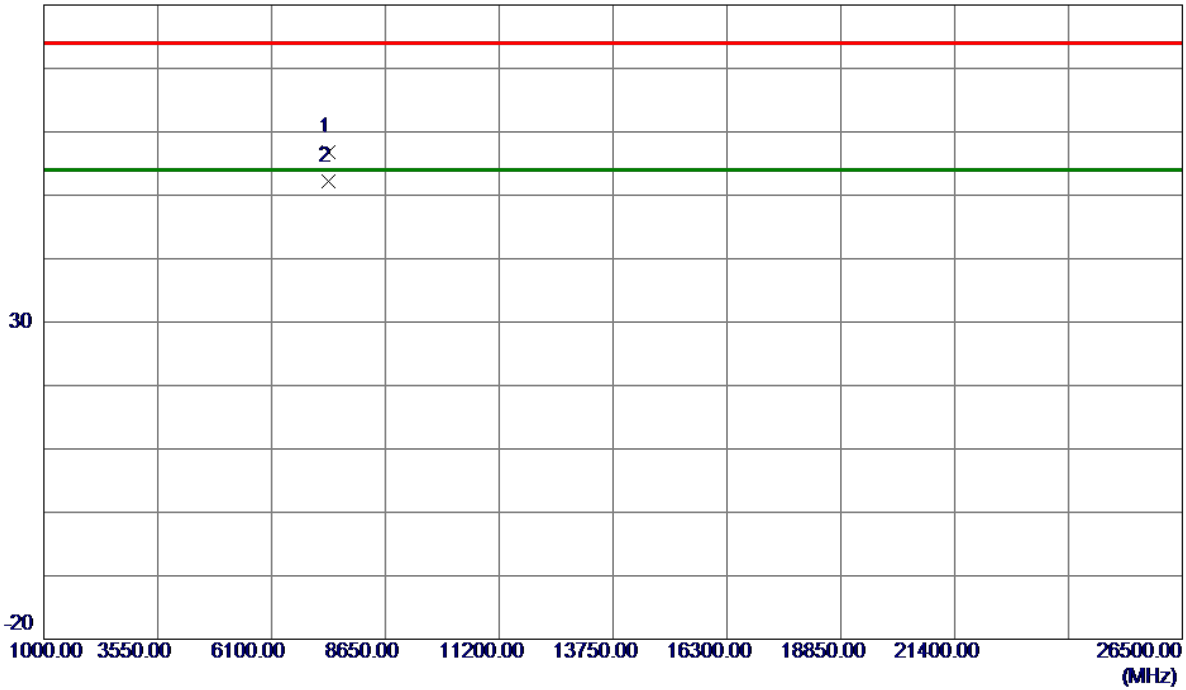
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1000	96.13	8.40	104.53	74.00	30.53	Peak	No Limit
2 *	2461.2000	94.24	8.40	102.64	54.00	48.64	AVG	No Limit
3	2483.5000	43.66	8.42	52.08	74.00	-21.92	Peak	
4	2483.5000	34.38	8.42	42.80	54.00	-11.20	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

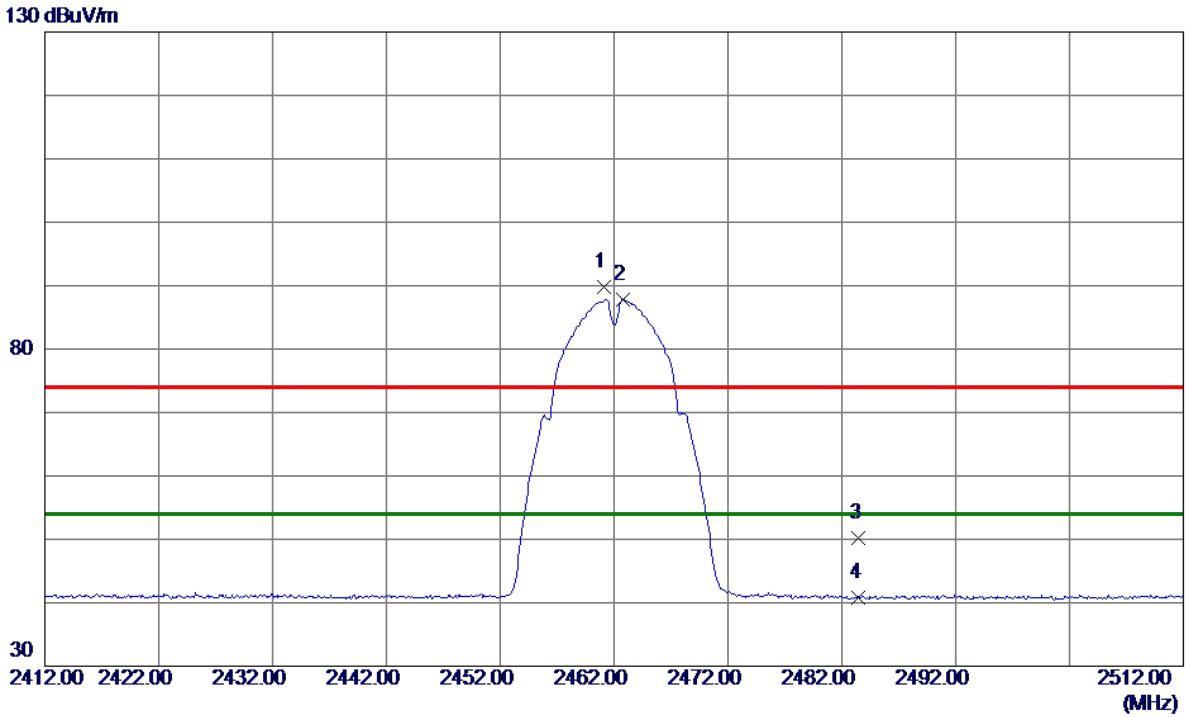


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7386.2000	45.96	10.79	56.75	74.00	-17.25	Peak	
2 *	7386.8650	41.47	10.79	52.26	54.00	-1.74	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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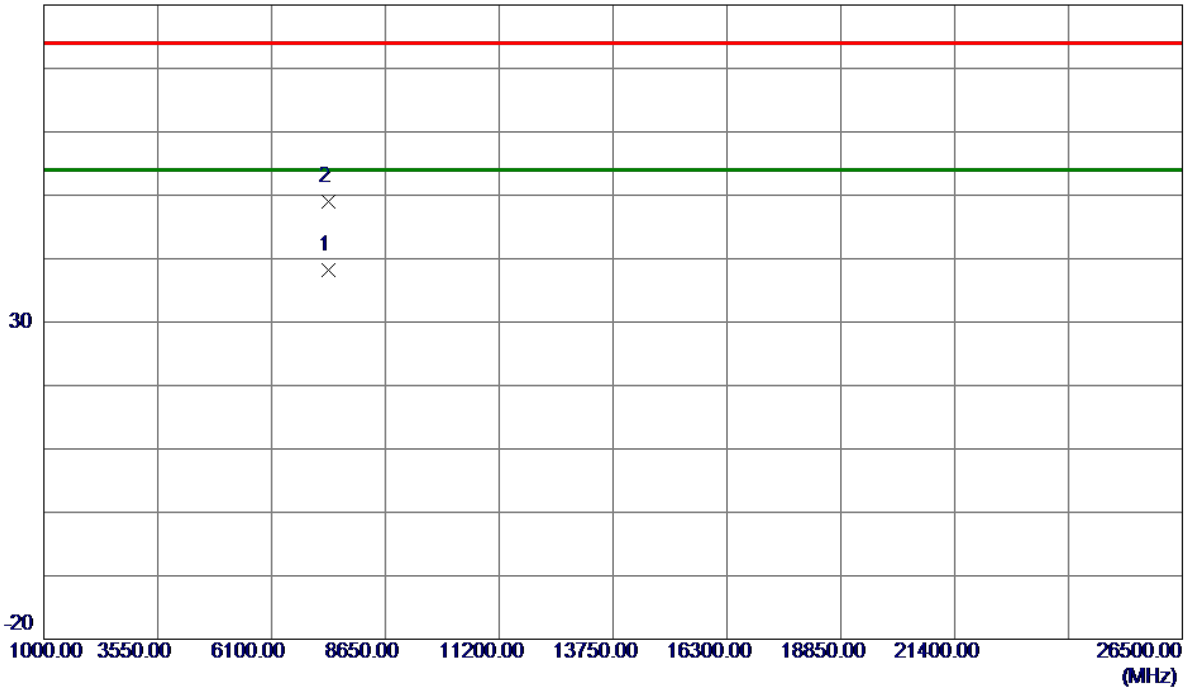
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1000	81.39	8.40	89.79	74.00	15.79	Peak	No Limit
2 *	2462.8000	79.39	8.40	87.79	54.00	33.79	AVG	No Limit
3	2483.5000	41.73	8.42	50.15	74.00	-23.85	Peak	
4	2483.5000	32.35	8.42	40.77	54.00	-13.23	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m

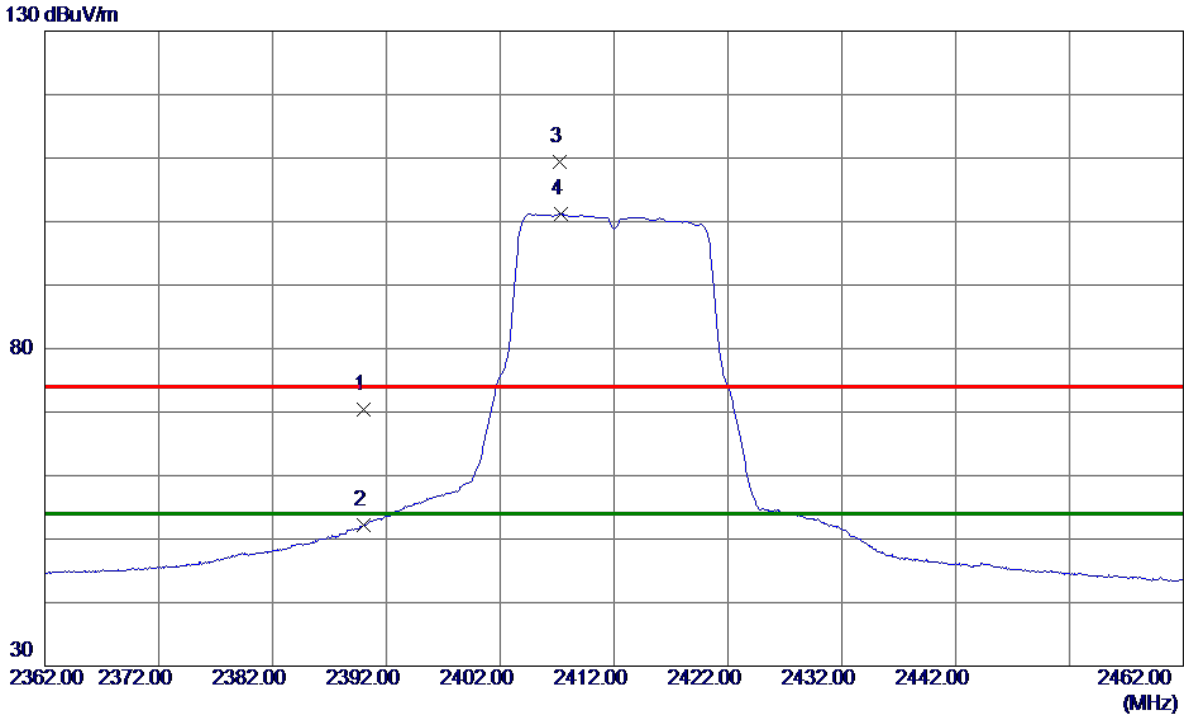


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7384.9450	27.37	10.79	38.16	54.00	-15.84	AVG	
2	7388.0800	38.25	10.79	49.04	74.00	-24.96	Peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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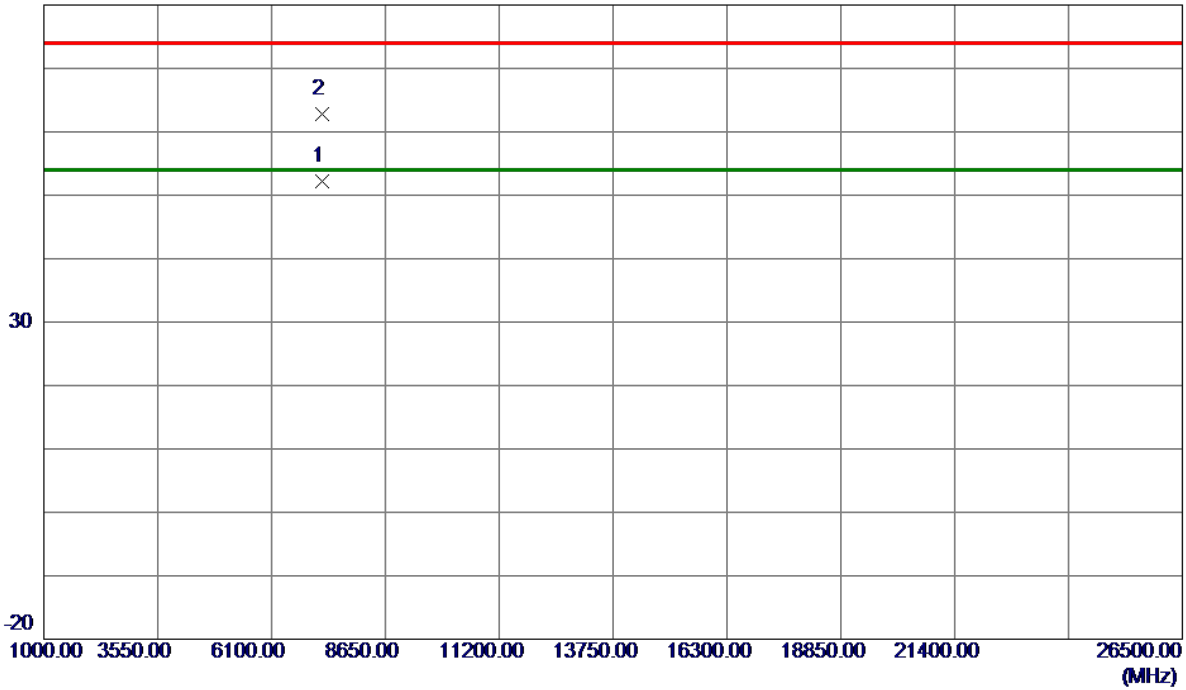
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	62.11	8.31	70.42	74.00	-3.58	Peak	
2	2390.0000	43.81	8.31	52.12	54.00	-1.88	AVG	
3	2407.2000	101.04	8.33	109.37	74.00	35.37	Peak	No Limit
4 *	2407.3000	92.83	8.33	101.16	54.00	47.16	AVG	No Limit

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

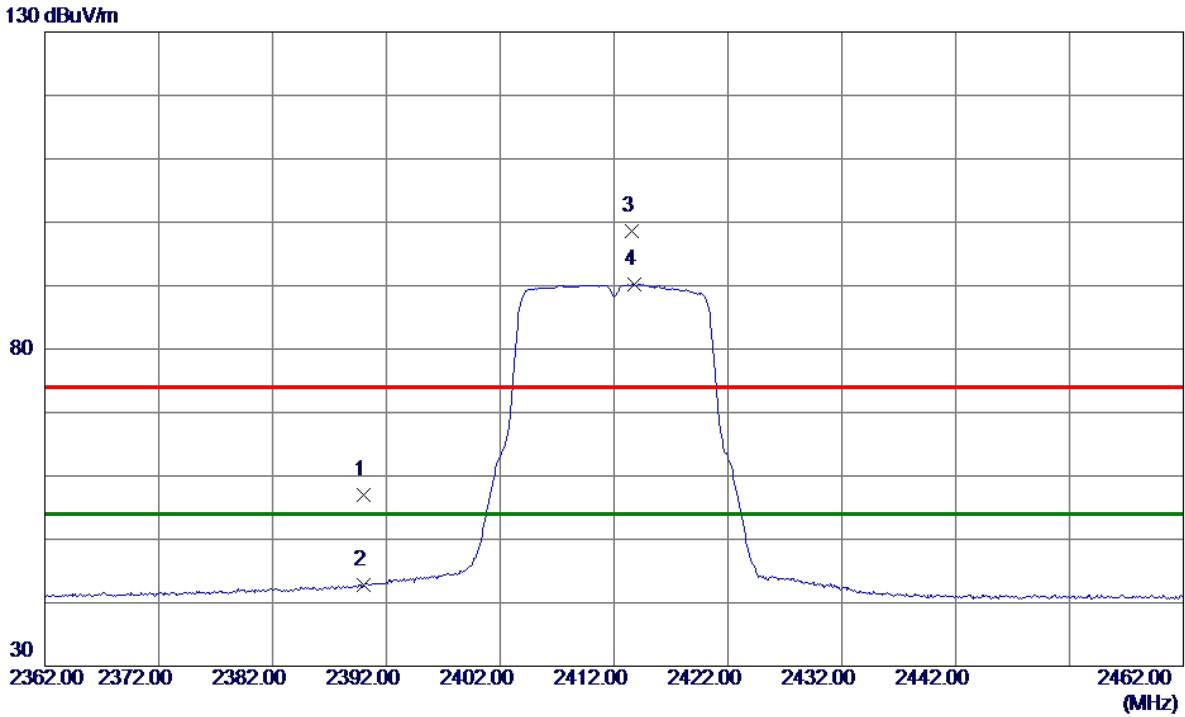


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7231.0250	41.65	10.59	52.24	54.00	-1.76	AVG	
2	7235.6000	52.11	10.60	62.71	74.00	-11.29	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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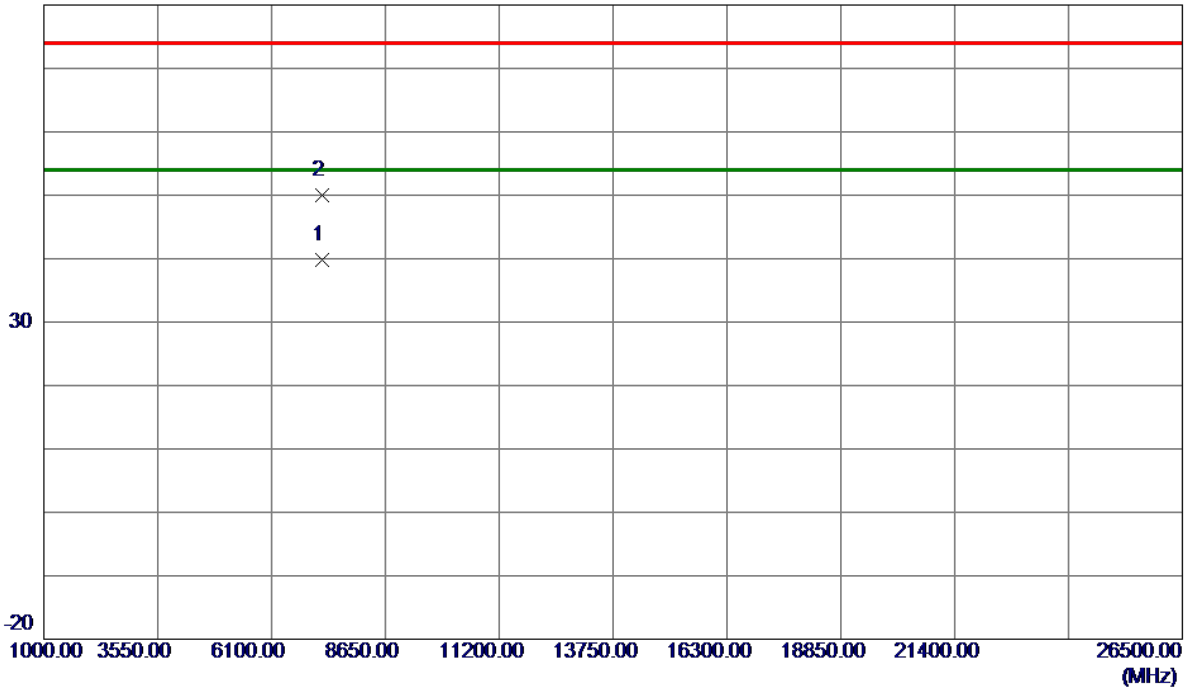
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	48.69	8.31	57.00	74.00	-17.00	Peak	
2	2390.0000	34.49	8.31	42.80	54.00	-11.20	AVG	
3	2413.6000	90.32	8.34	98.66	74.00	24.66	Peak	No Limit
4 *	2413.8000	81.87	8.34	90.21	54.00	36.21	AVG	No Limit

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m



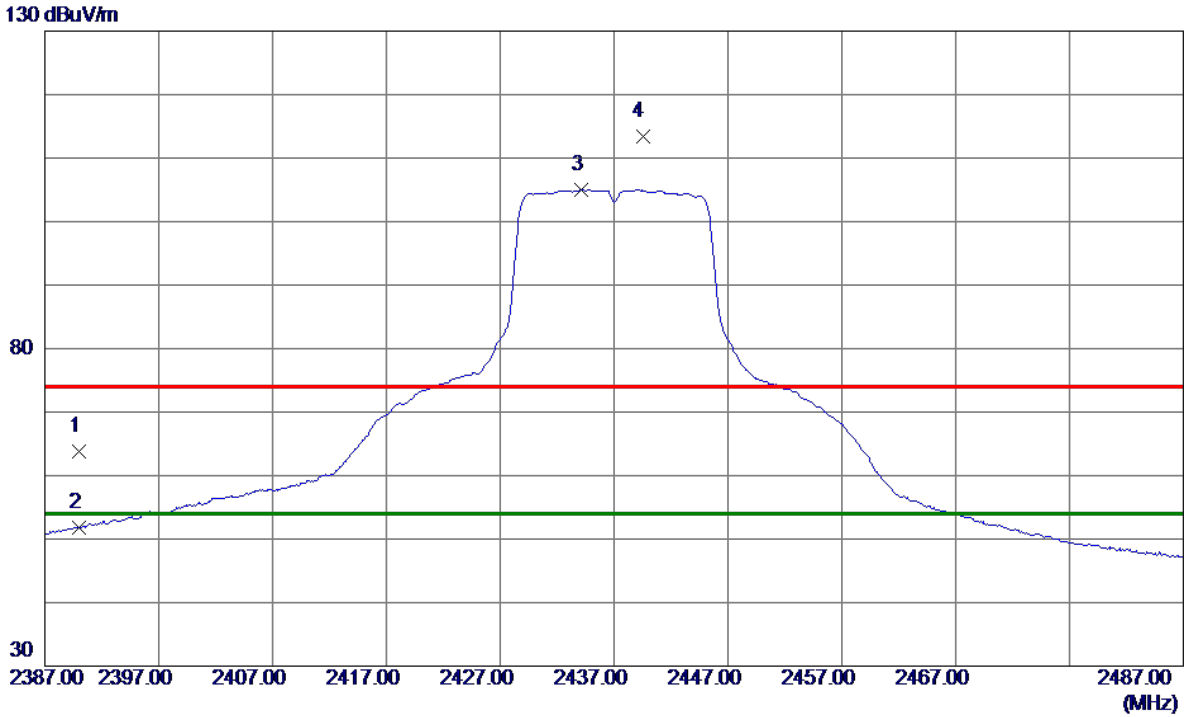
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7231.0750	29.13	10.59	39.72	54.00	-14.28	AVG	
2	7235.7250	39.42	10.60	50.02	74.00	-23.98	Peak	

REMARKS:

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



Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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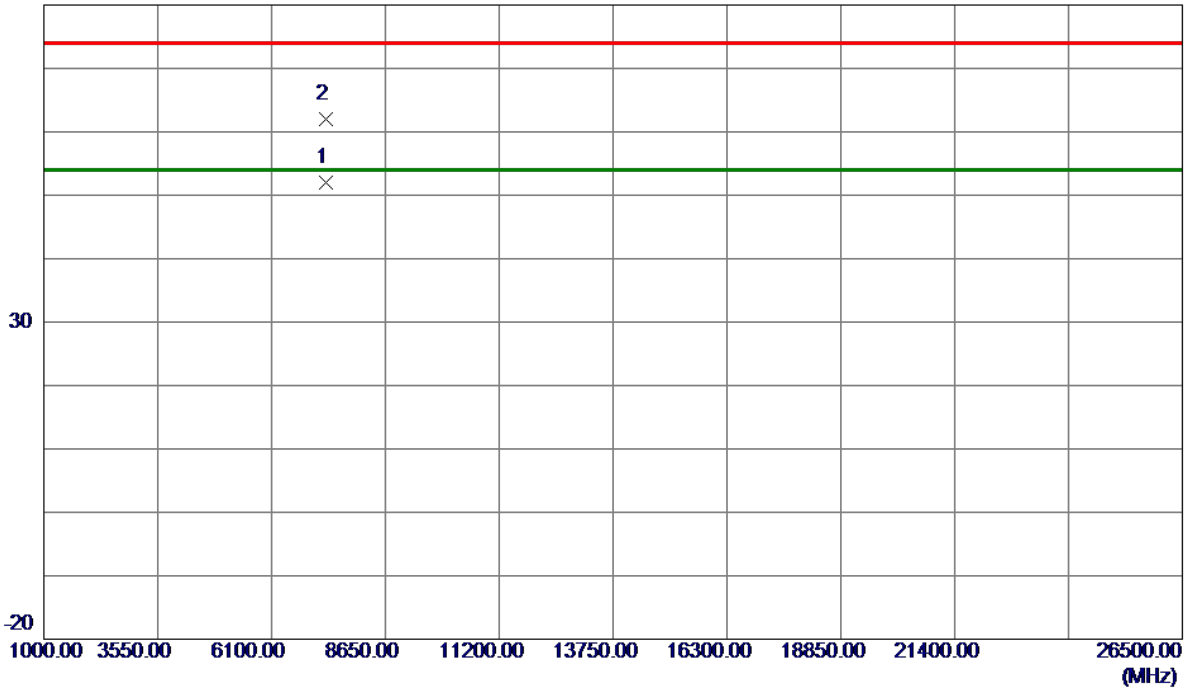
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.41	8.31	63.72	74.00	-10.28	Peak	
2	2390.0000	43.53	8.31	51.84	54.00	-2.16	AVG	
3 *	2434.1000	96.62	8.36	104.98	54.00	50.98	AVG	No Limit
4	2439.5000	104.97	8.37	113.34	74.00	39.34	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	Polarization	Vertical
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80 dBuV/m

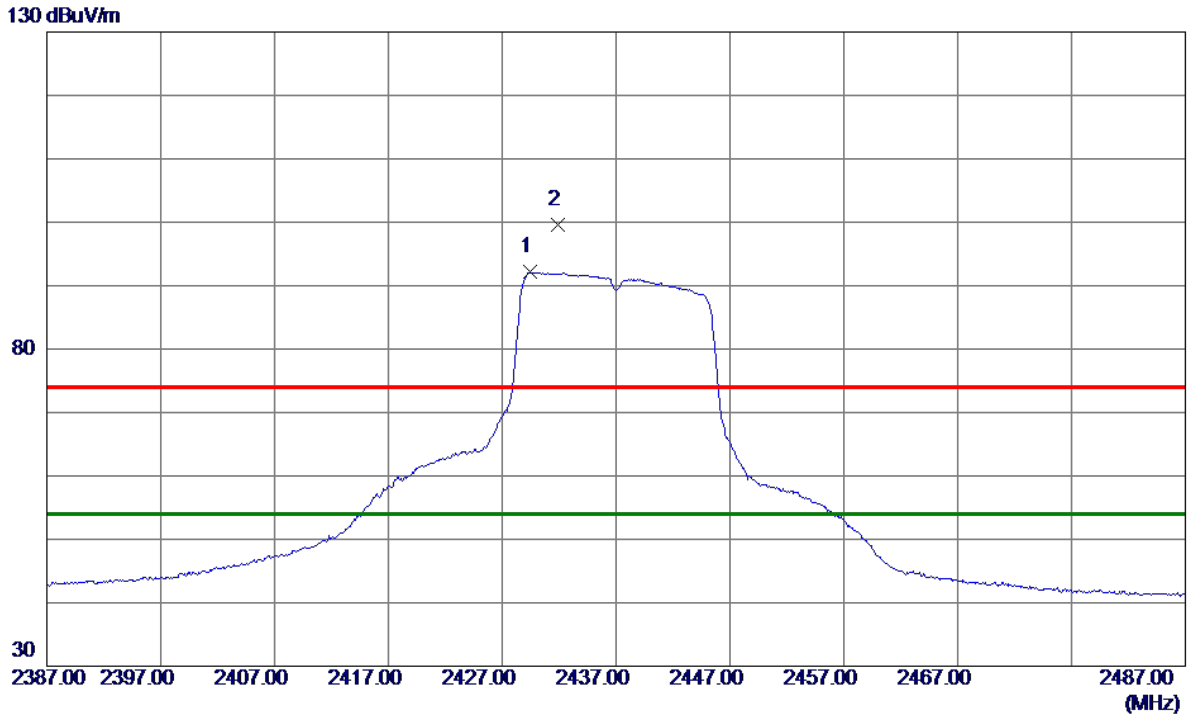


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7311.2250	41.23	10.69	51.92	54.00	-2.08	AVG	
2	7314.7500	51.32	10.70	62.02	74.00	-11.98	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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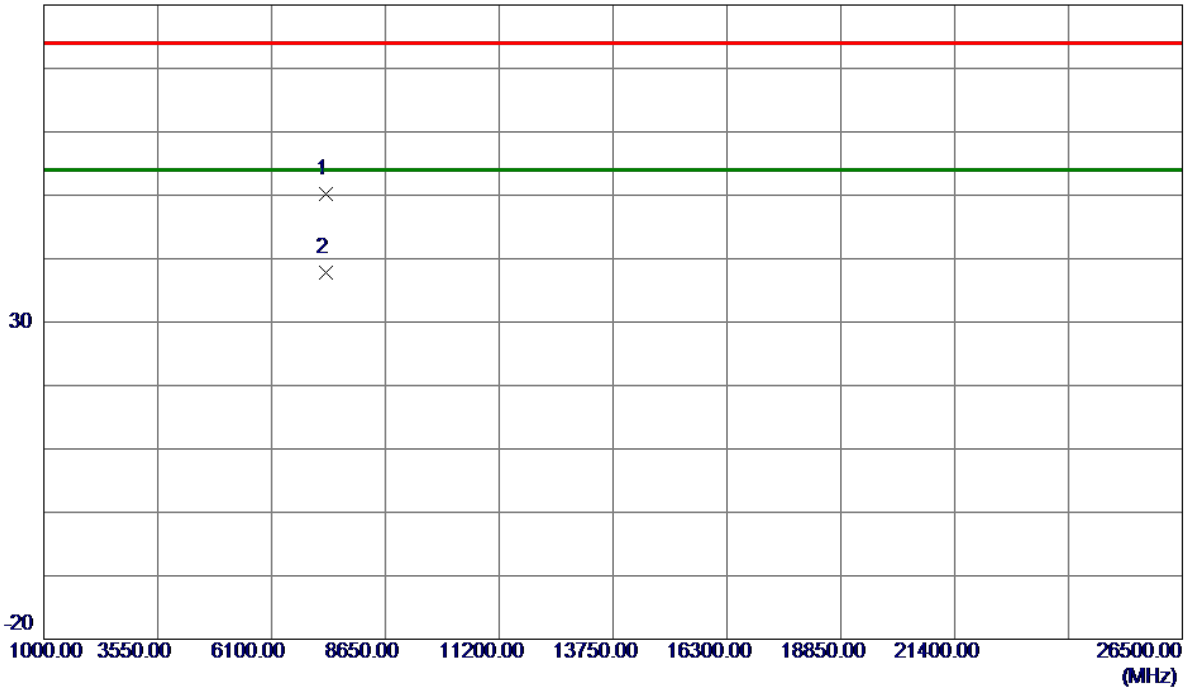
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2429.4000	83.76	8.36	92.12	54.00	38.12	AVG	No Limit
2	2431.9000	91.32	8.36	99.68	74.00	25.68	Peak	No Limit

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

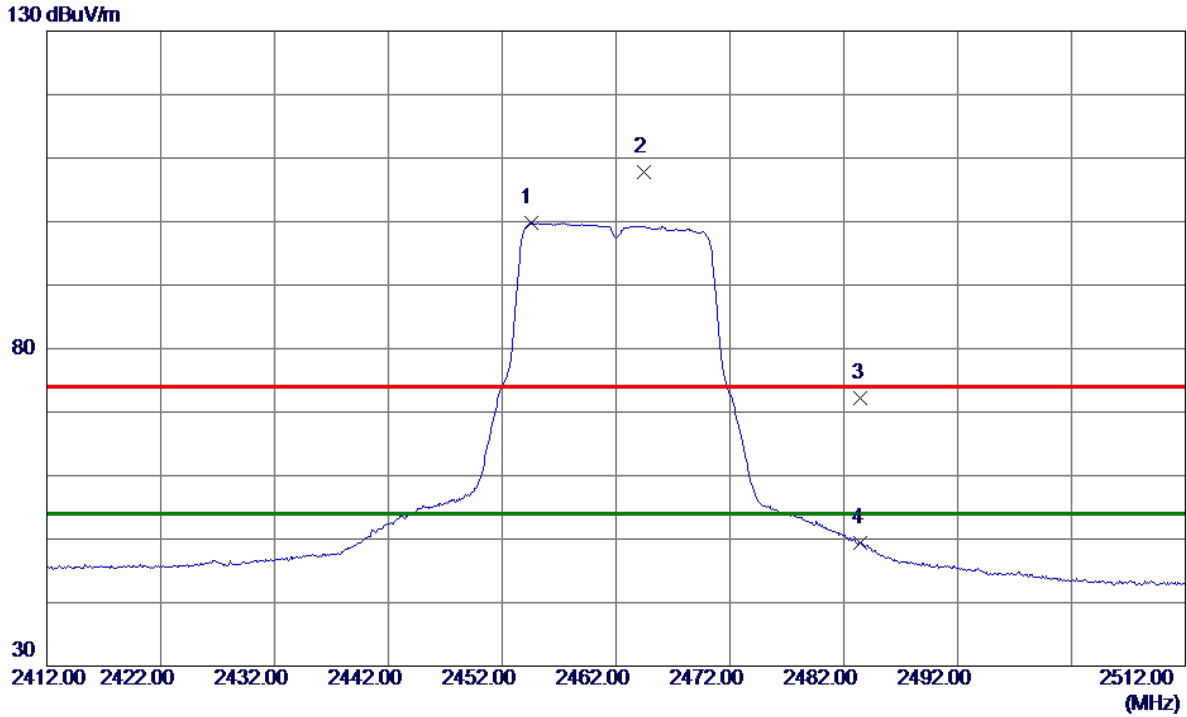


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7307.4250	39.49	10.69	50.18	74.00	-23.82	Peak	
2 *	7325.9250	27.16	10.71	37.87	54.00	-16.13	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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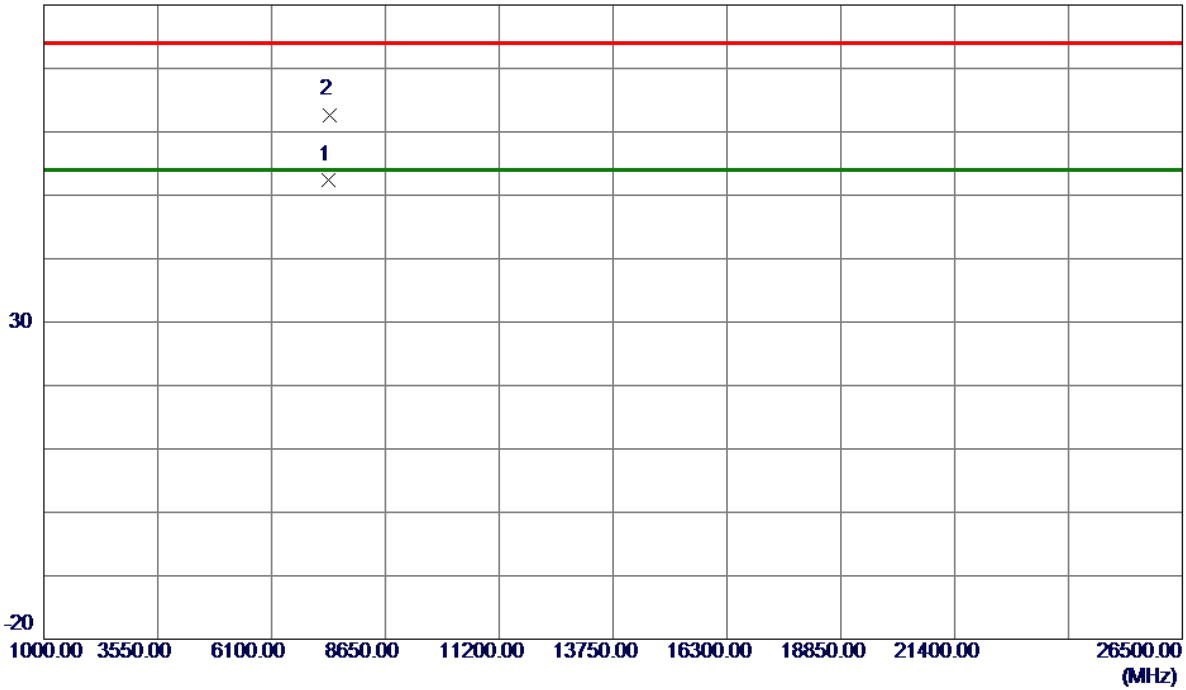
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.5000	91.38	8.39	99.77	54.00	45.77	AVG	No Limit
2	2464.4000	99.34	8.40	107.74	74.00	33.74	Peak	No Limit
3	2483.5000	63.77	8.42	72.19	74.00	-1.81	Peak	
4	2483.5000	40.89	8.42	49.31	54.00	-4.69	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

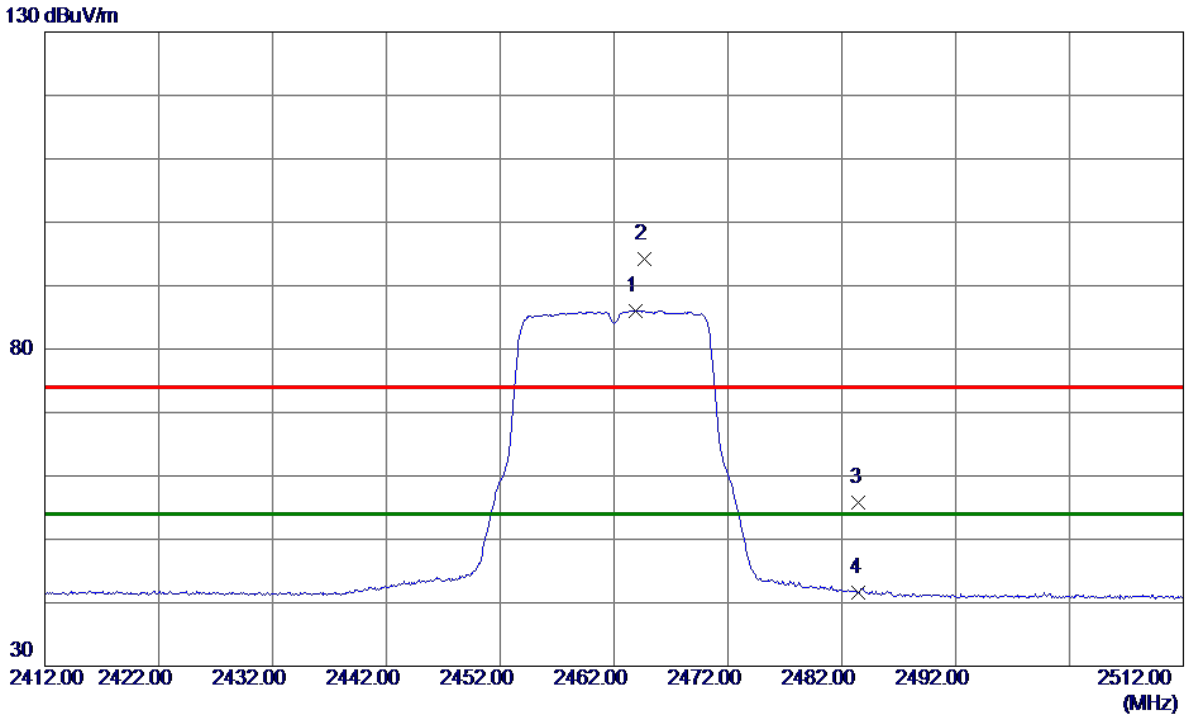


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7386.2000	41.58	10.79	52.37	54.00	-1.63	AVG	
2	7393.7250	51.90	10.80	62.70	74.00	-11.30	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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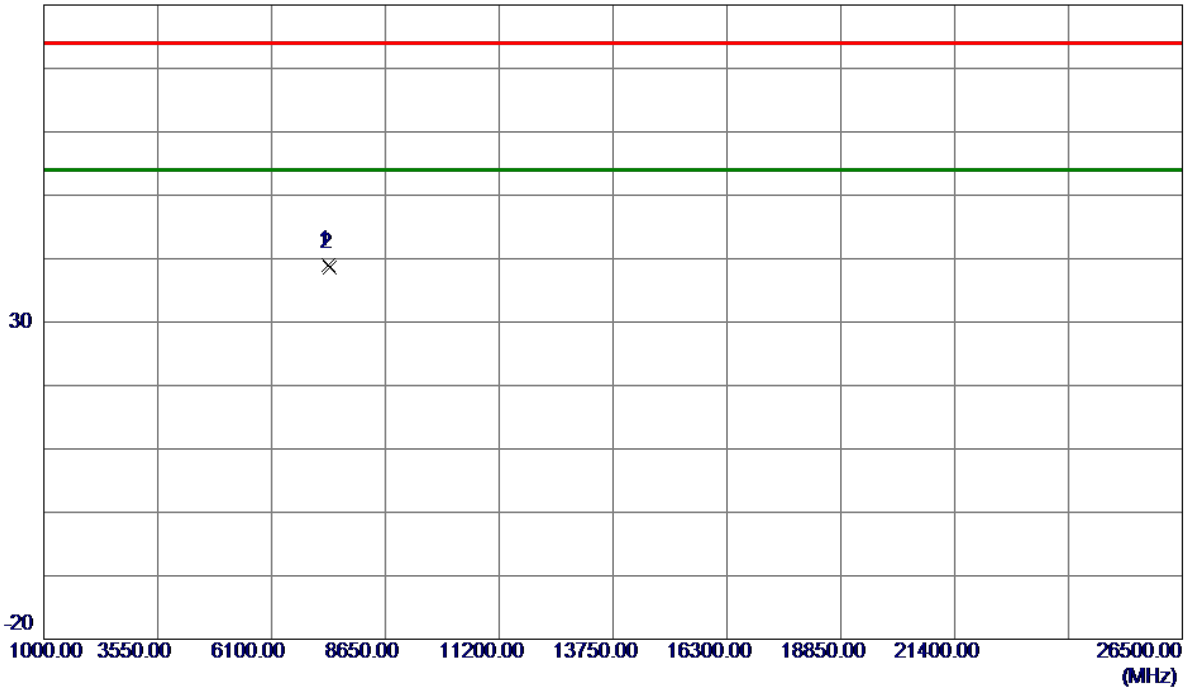
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.9000	77.62	8.40	86.02	54.00	32.02	AVG	No Limit
2	2464.7000	85.71	8.40	94.11	74.00	20.11	Peak	No Limit
3	2483.5000	47.40	8.42	55.82	74.00	-18.18	Peak	
4	2483.5000	33.12	8.42	41.54	54.00	-12.46	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m



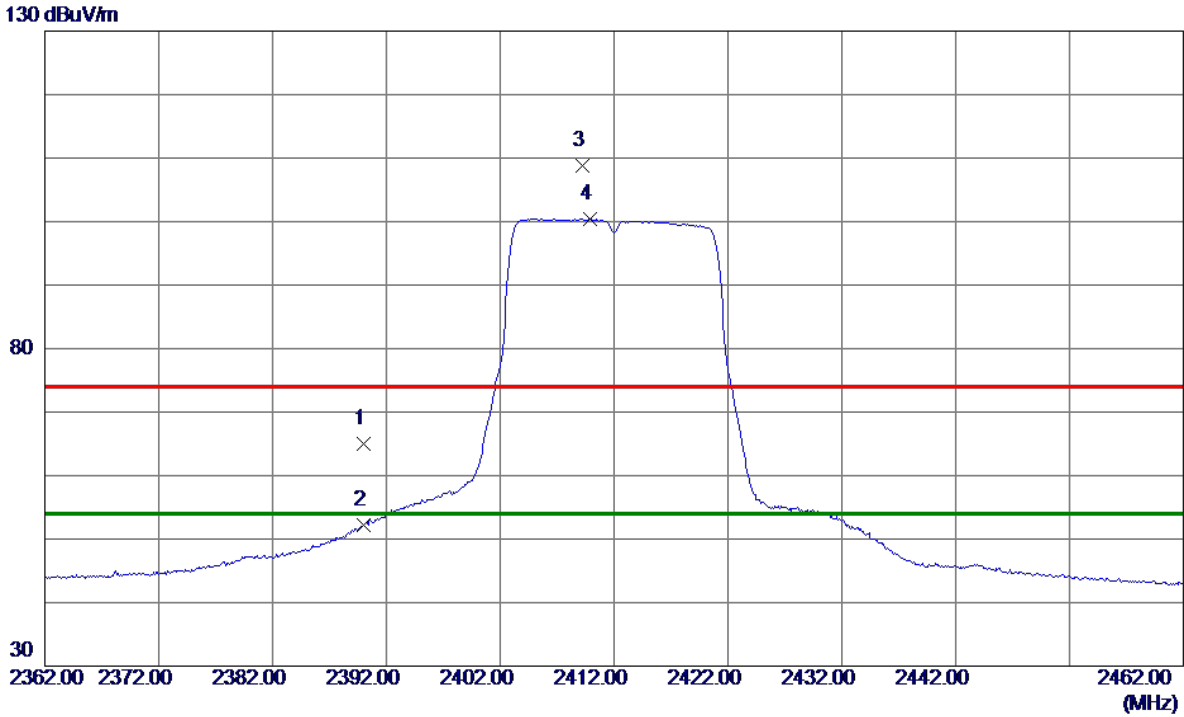
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7383.1500	28.26	10.79	39.05	74.00	-34.95	Peak	
2 *	7399.4000	27.76	10.81	38.57	54.00	-15.43	AVG	

**REMARKS:**

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



Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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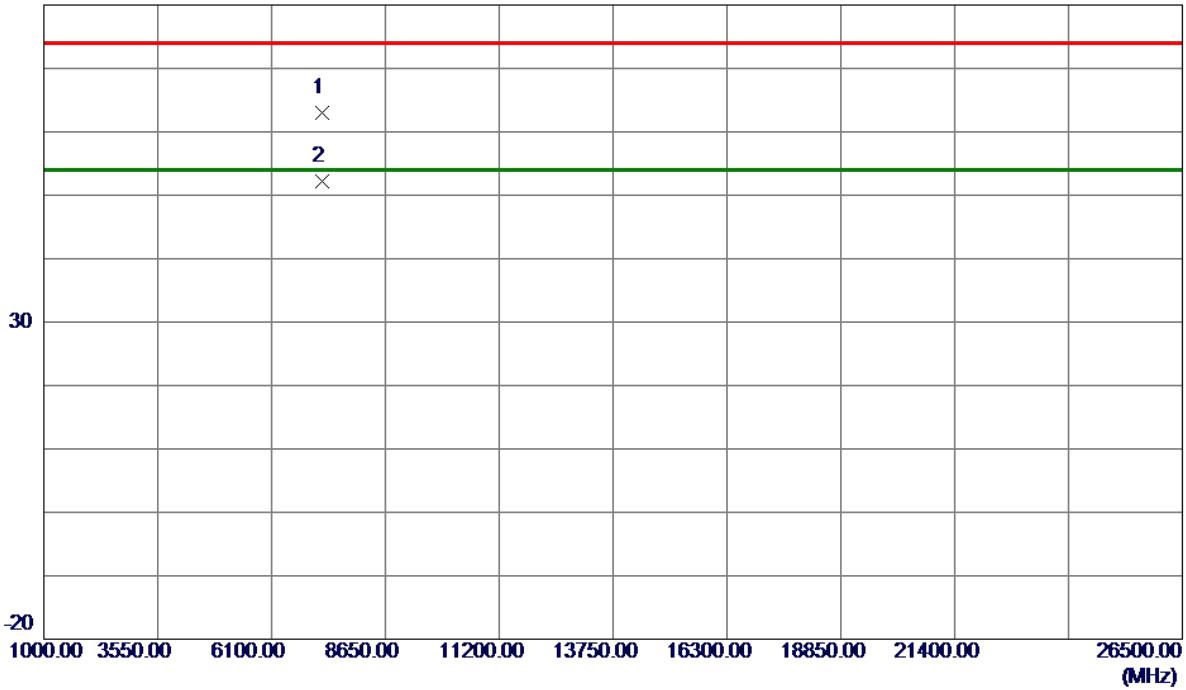
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.75	8.31	65.06	74.00	-8.94	Peak	
2	2390.0000	43.81	8.31	52.12	54.00	-1.88	AVG	
3	2409.2000	100.42	8.33	108.75	74.00	34.75	Peak	No Limit
4 *	2409.9000	92.11	8.33	100.44	54.00	46.44	AVG	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

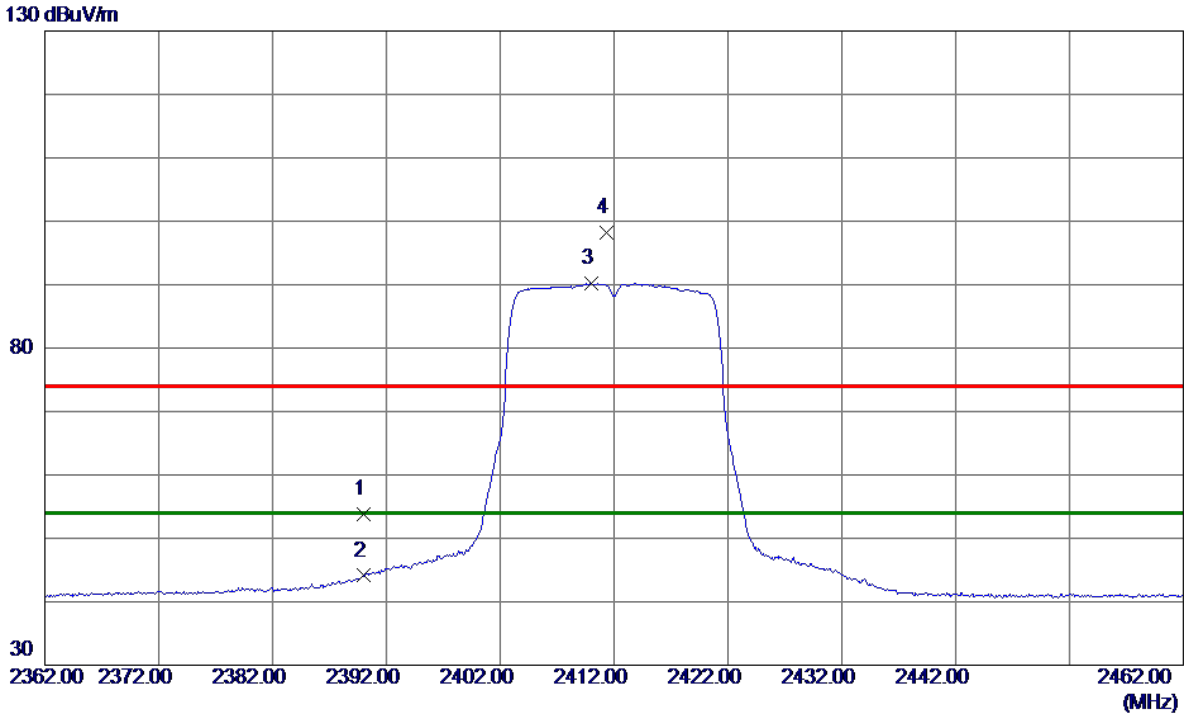


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7227.2000	52.50	10.59	63.09	74.00	-10.91	Peak	
2 *	7238.5500	41.63	10.60	52.23	54.00	-1.77	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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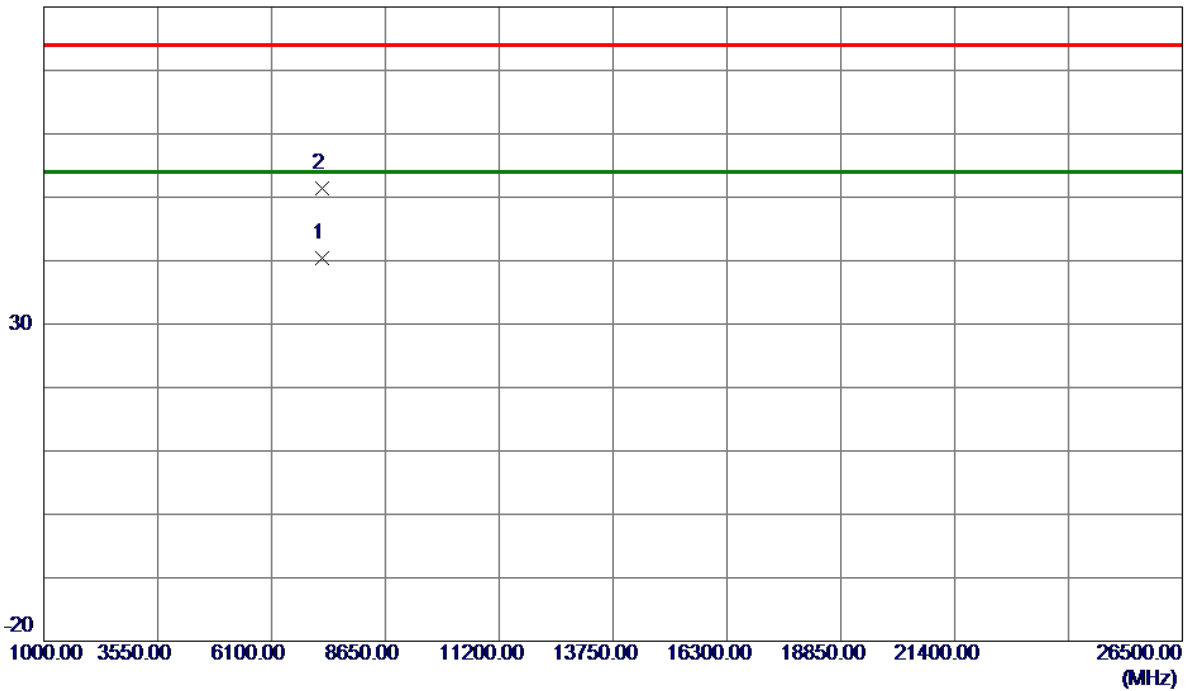
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.52	8.31	53.83	74.00	-20.17	Peak	
2	2390.0000	35.79	8.31	44.10	54.00	-9.90	AVG	
3 *	2410.0000	81.96	8.33	90.29	54.00	36.29	AVG	No Limit
4	2411.3000	89.80	8.33	98.13	74.00	24.13	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

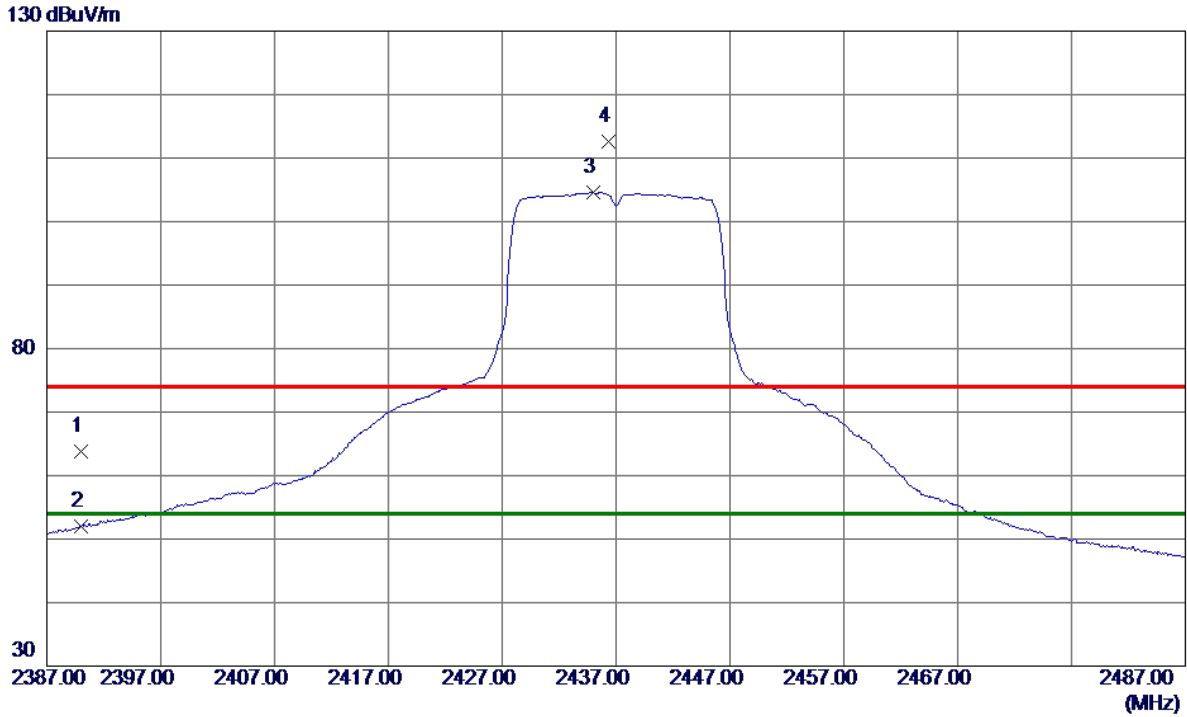


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7230.4750	29.83	10.59	40.42	54.00	-13.58	AVG	
2	7239.9500	40.89	10.60	51.49	74.00	-22.51	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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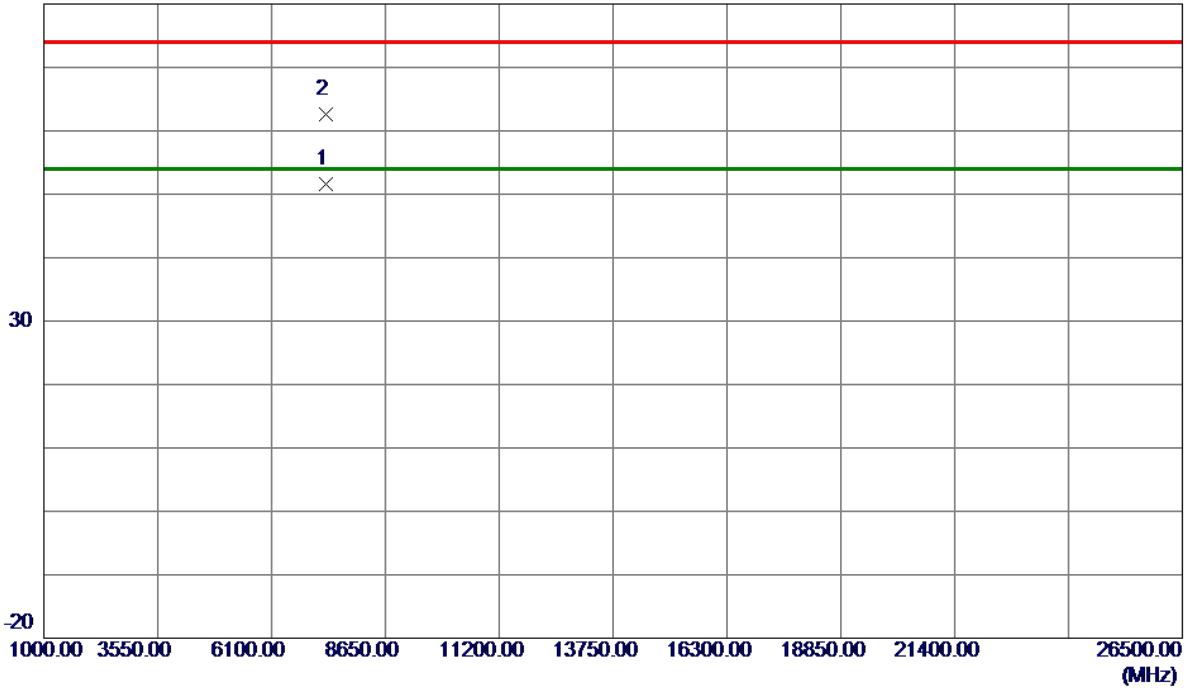
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.54	8.31	63.85	74.00	-10.15	Peak	
2	2390.0000	43.76	8.31	52.07	54.00	-1.93	AVG	
3 *	2435.0000	96.22	8.36	104.58	54.00	50.58	AVG	No Limit
4	2436.3000	104.16	8.36	112.52	74.00	38.52	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

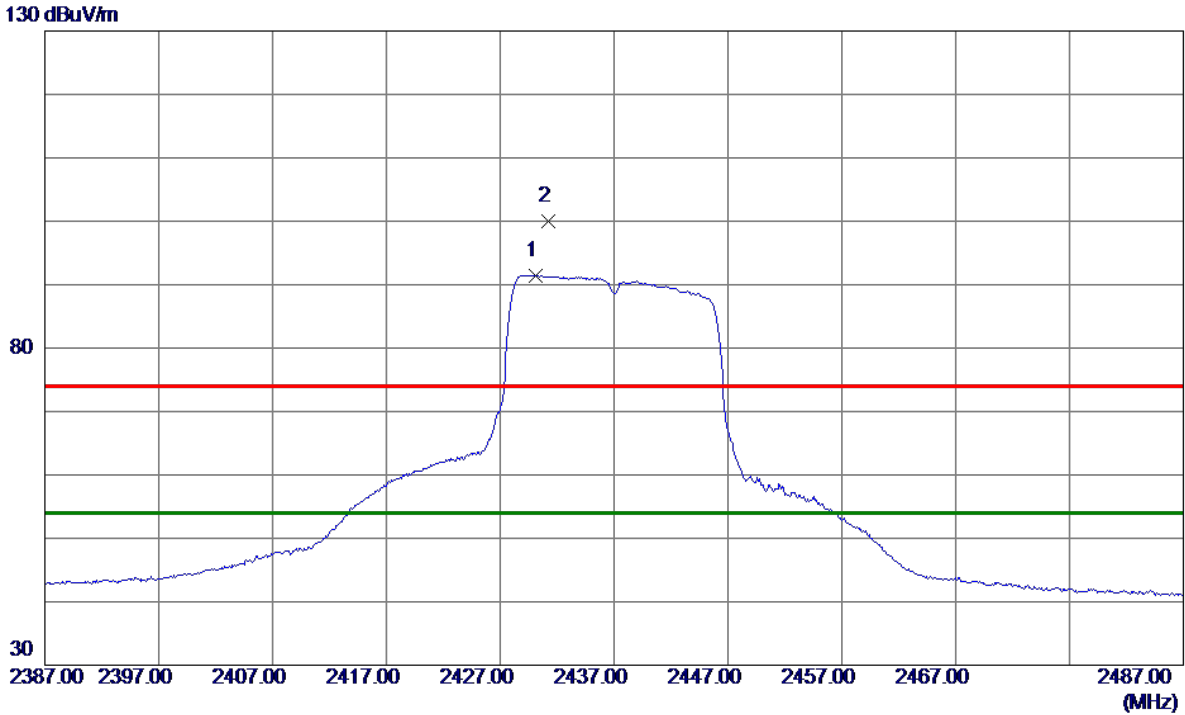


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7313.3250	40.83	10.70	51.53	54.00	-2.47	AVG	
2	7317.0750	51.88	10.70	62.58	74.00	-11.42	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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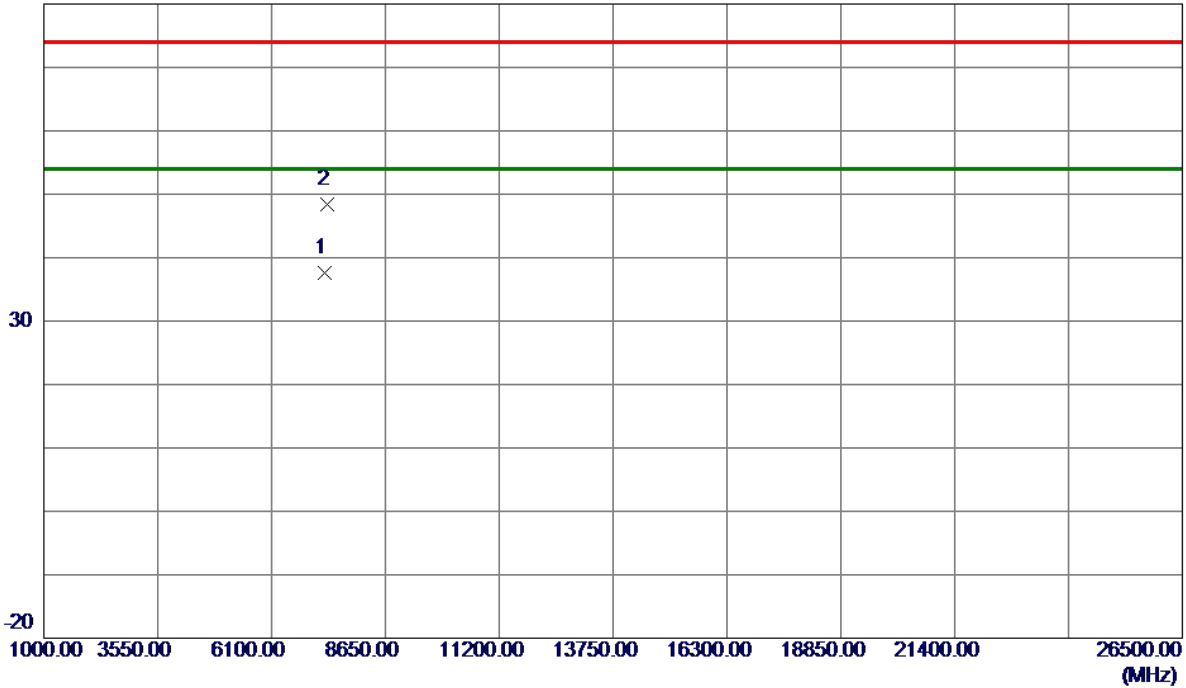
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2430.1000	83.11	8.36	91.47	54.00	37.47	AVG	No Limit
2	2431.2000	91.56	8.36	99.92	74.00	25.92	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m



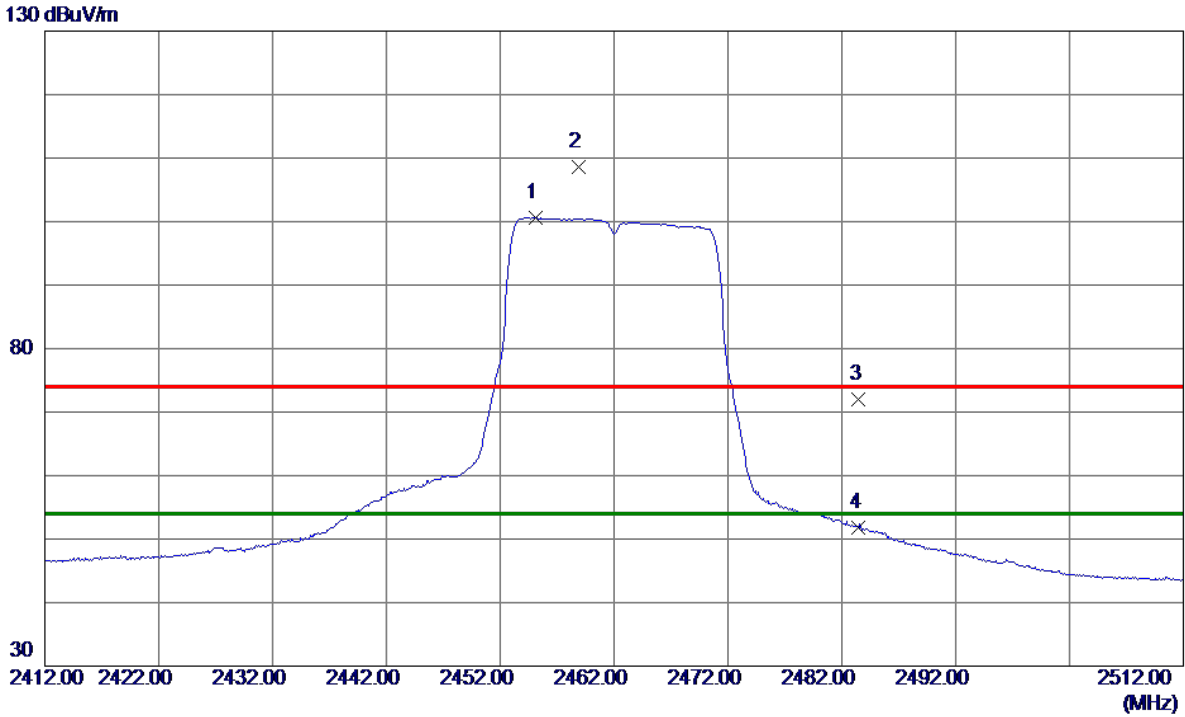
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7293.1000	27.02	10.67	37.69	54.00	-16.31	AVG	
2	7333.7250	37.71	10.72	48.43	74.00	-25.57	Peak	

REMARKS:

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



Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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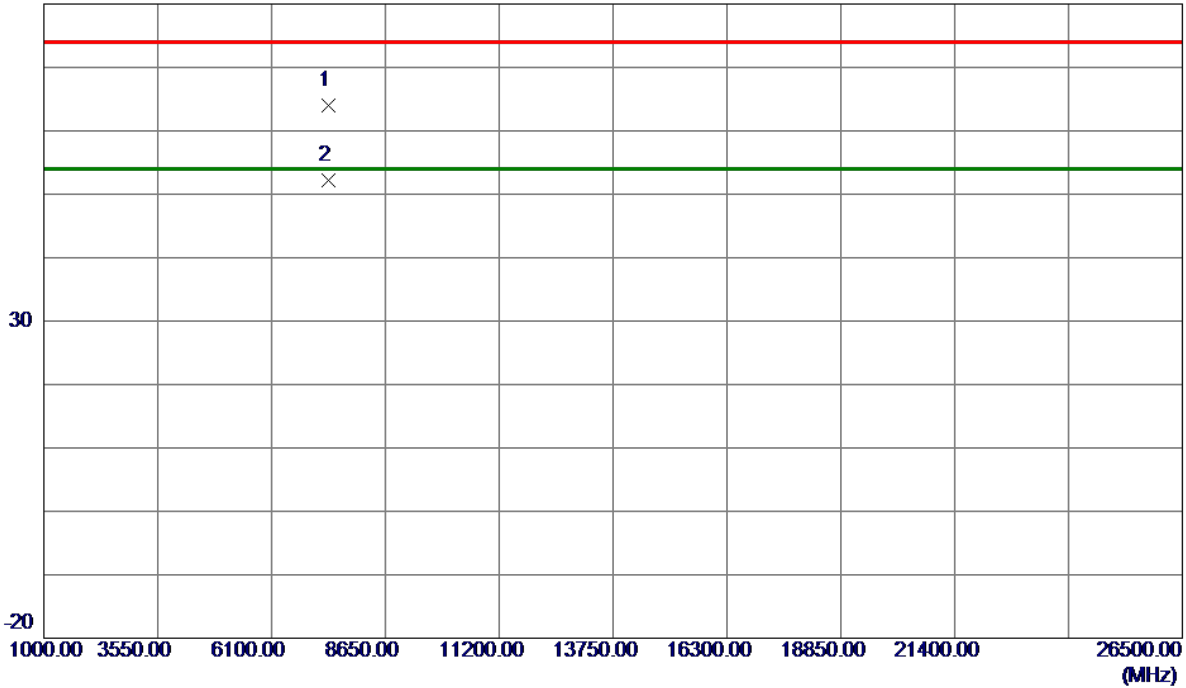
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.1000	92.19	8.39	100.58	54.00	46.58	AVG	No Limit
2	2458.9000	100.14	8.39	108.53	74.00	34.53	Peak	No Limit
3	2483.5000	63.67	8.42	72.09	74.00	-1.91	Peak	
4	2483.5000	43.38	8.42	51.80	54.00	-2.20	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

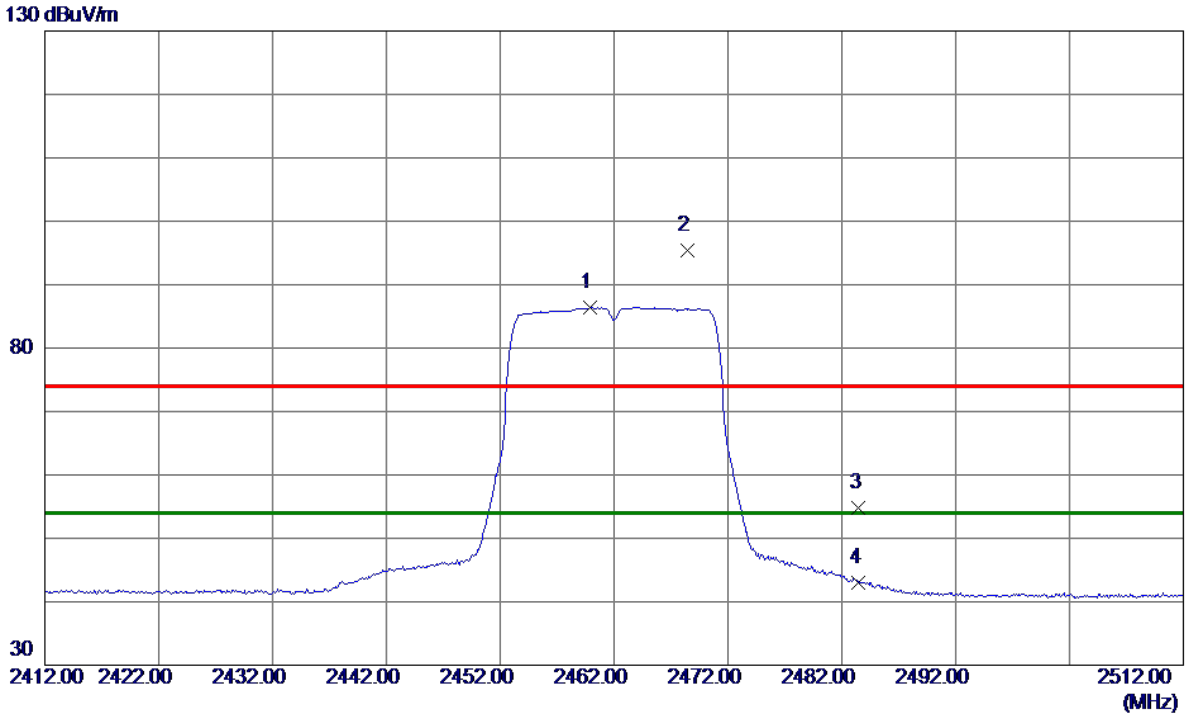


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7380.4250	53.16	10.78	63.94	74.00	-10.06	Peak	
2 *	7388.5500	41.48	10.80	52.28	54.00	-1.72	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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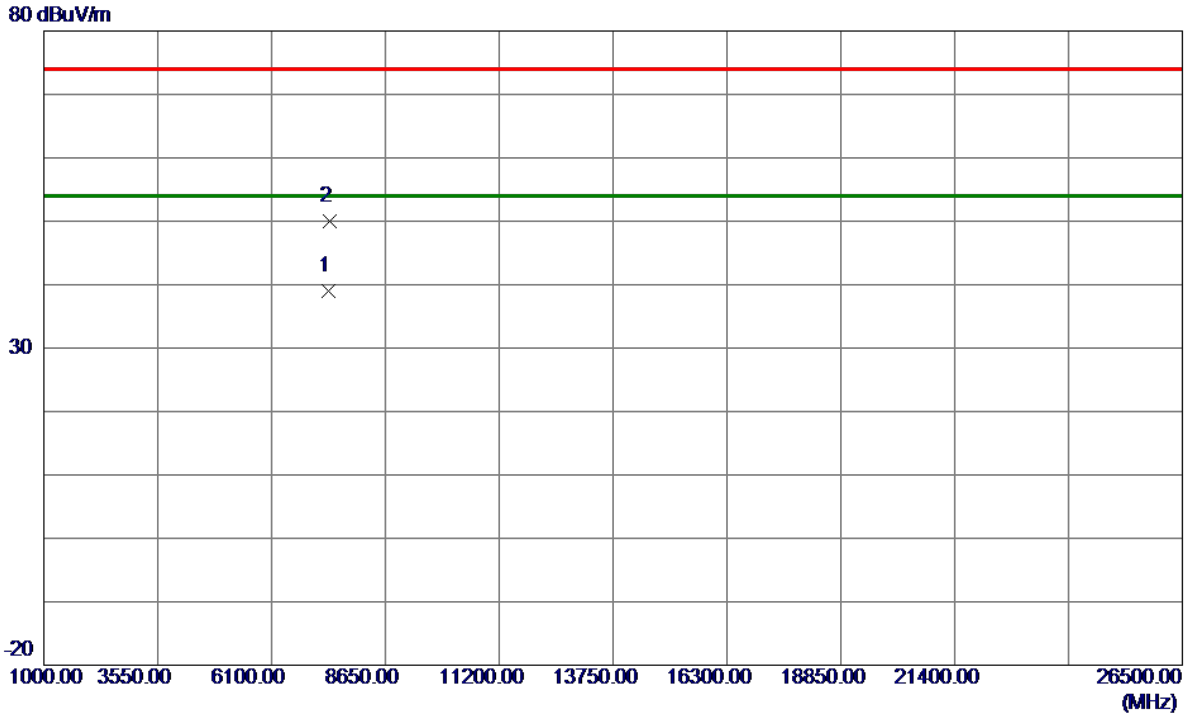


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2459.9000	78.06	8.39	86.45	54.00	32.45	AVG	No Limit
2	2468.4000	86.97	8.40	95.37	74.00	21.37	Peak	No Limit
3	2483.5000	46.39	8.42	54.81	74.00	-19.19	Peak	
4	2483.5000	34.66	8.42	43.08	54.00	-10.92	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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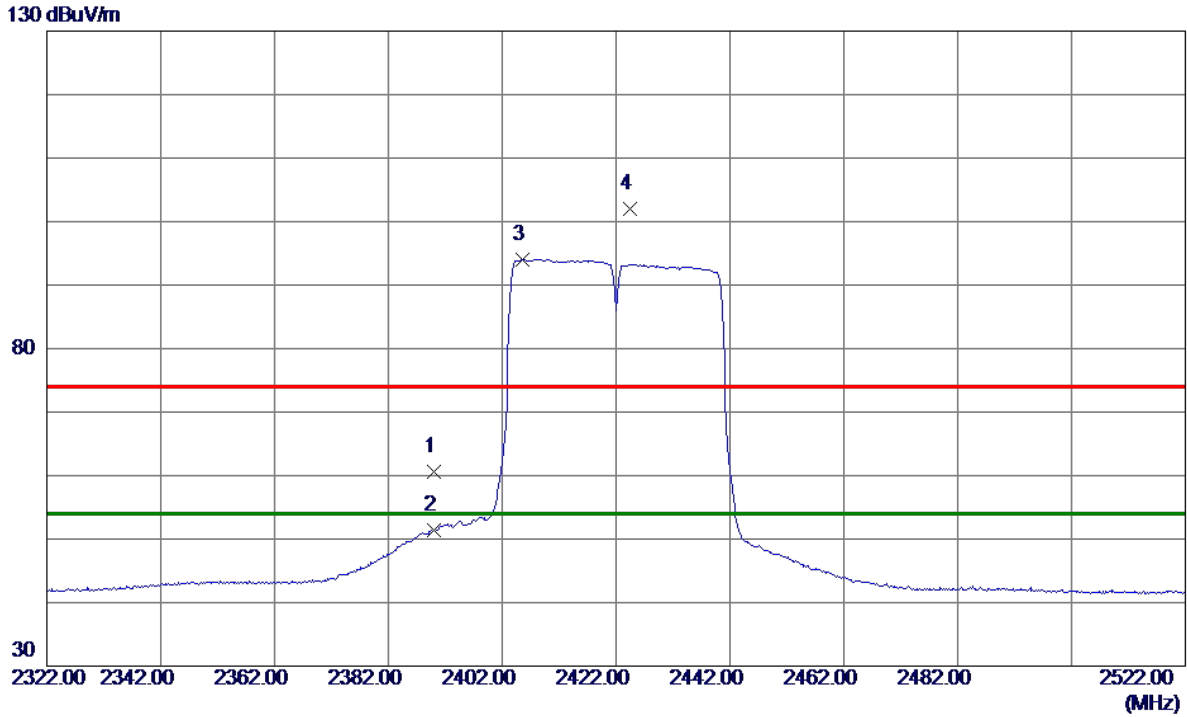


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7379.9000	28.26	10.78	39.04	54.00	-14.96	AVG	
2	7389.8250	39.21	10.80	50.01	74.00	-23.99	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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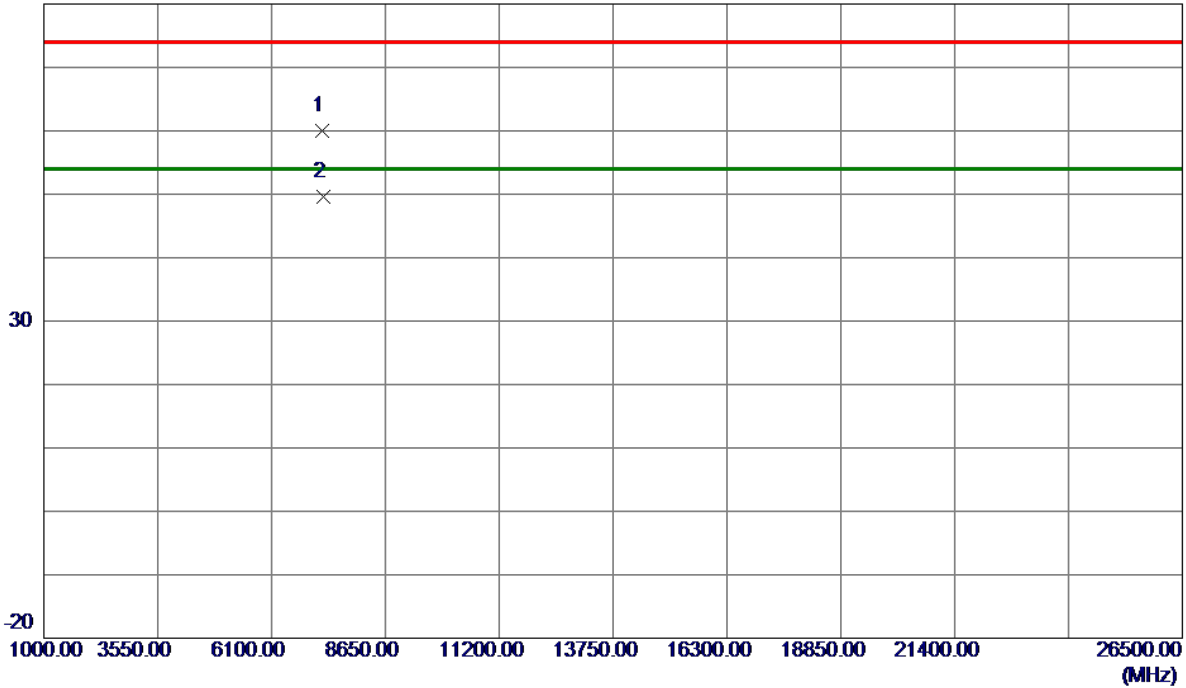
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.33	8.31	60.64	74.00	-13.36	Peak	
2	2390.0000	43.00	8.31	51.31	54.00	-2.69	AVG	
3 *	2405.6000	85.71	8.33	94.04	54.00	40.04	AVG	No Limit
4	2424.4000	93.64	8.35	101.99	74.00	27.99	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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80 dBuV/m

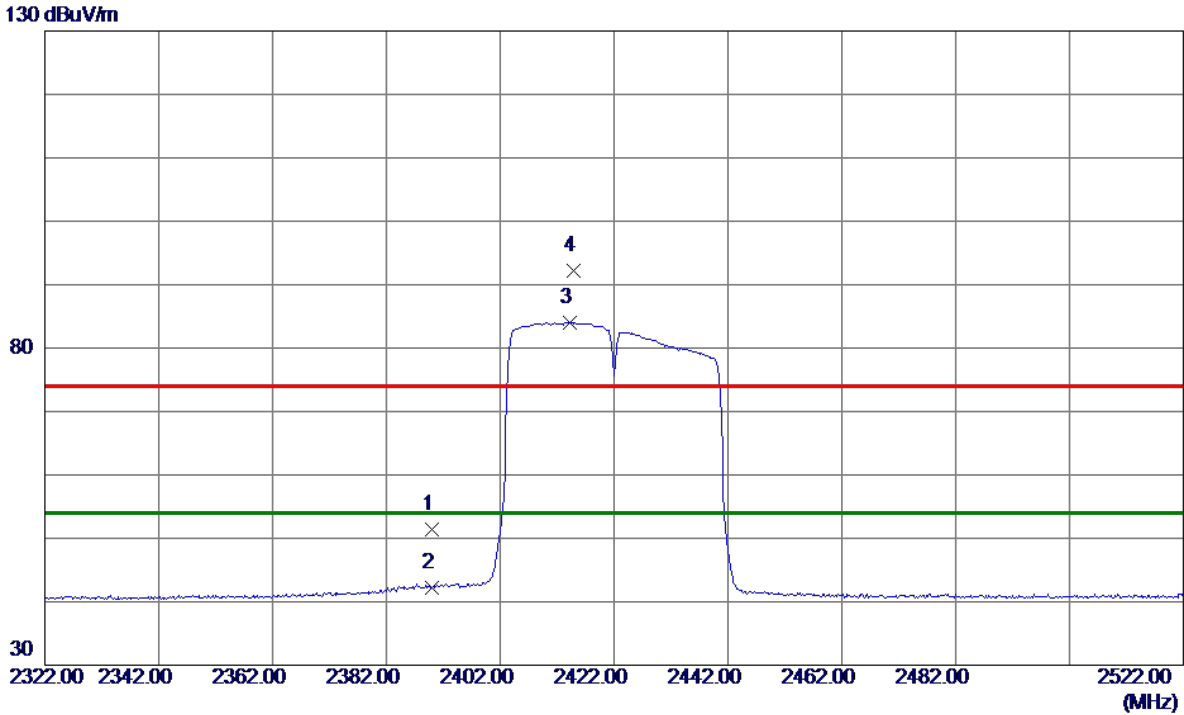


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7236.0000	49.40	10.60	60.00	74.00	-14.00	Peak	
2 *	7253.0500	38.89	10.62	49.51	54.00	-4.49	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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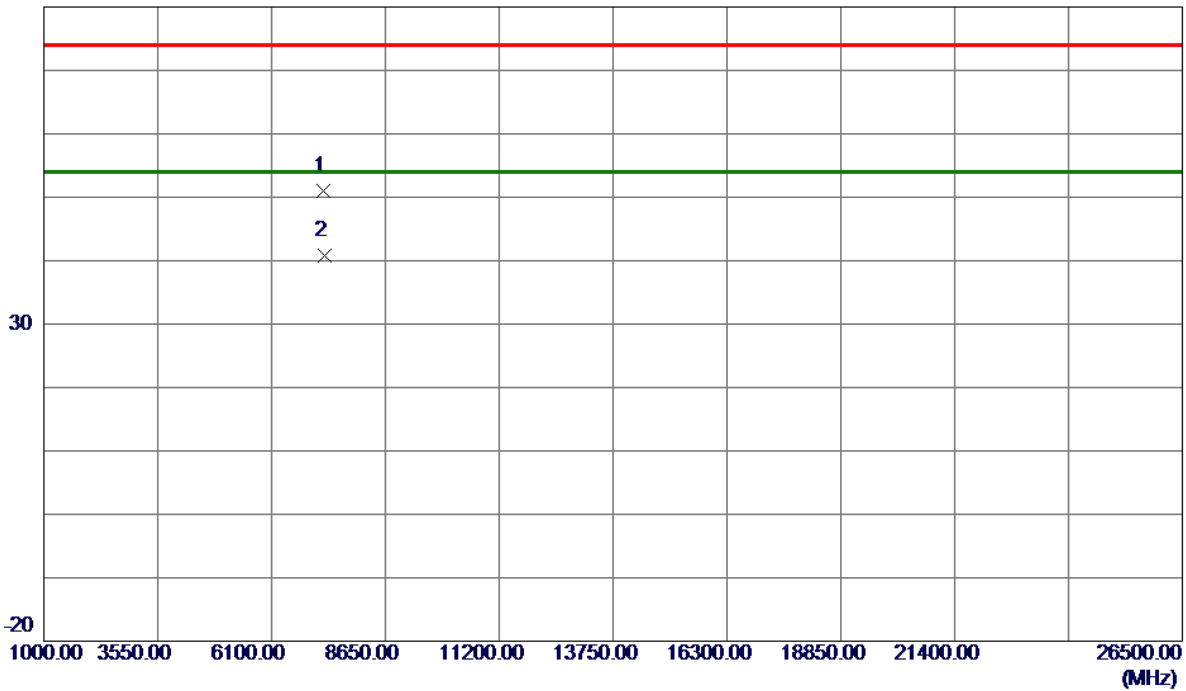
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	43.18	8.31	51.49	74.00	-22.51	Peak	
2	2390.0000	33.98	8.31	42.29	54.00	-11.71	AVG	
3 *	2414.2000	75.75	8.34	84.09	54.00	30.09	AVG	No Limit
4	2414.8000	83.87	8.34	92.21	74.00	18.21	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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80 dBuV/m



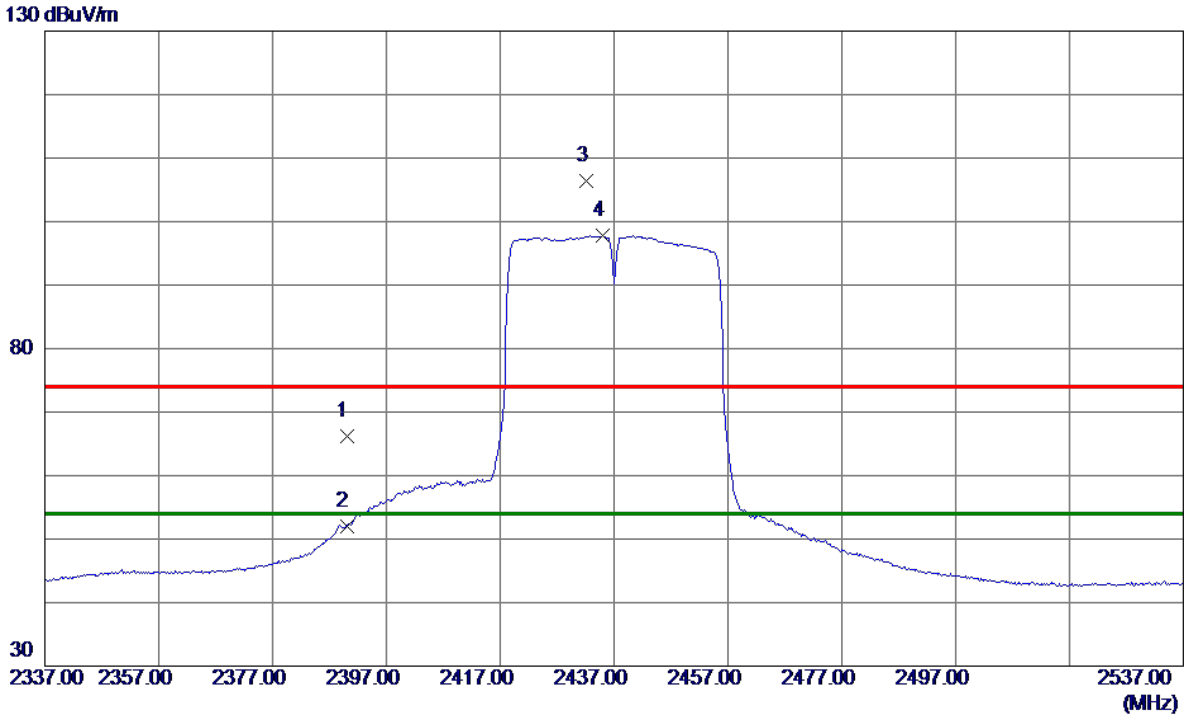
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7275.7000	40.40	10.65	51.05	74.00	-22.95	Peak	
2 *	7278.5000	30.15	10.65	40.80	54.00	-13.20	AVG	

REMARKS:

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



Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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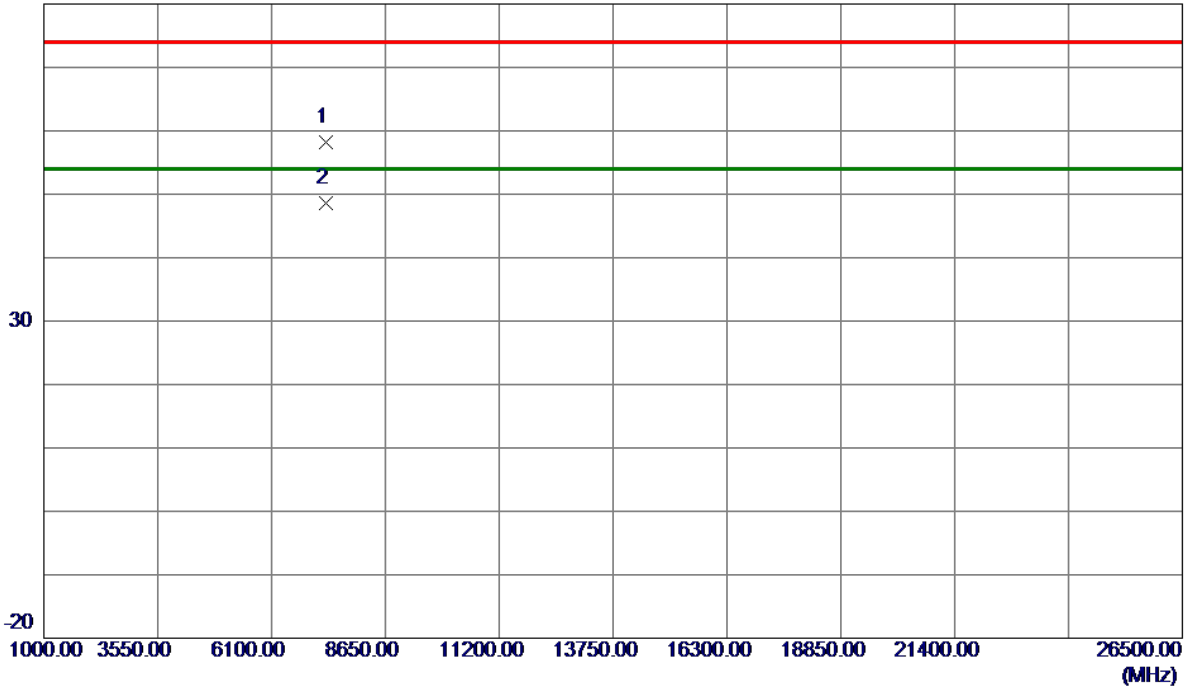
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.94	8.31	66.25	74.00	-7.75	Peak	
2	2390.0000	43.71	8.31	52.02	54.00	-1.98	AVG	
3	2432.2000	97.96	8.36	106.32	74.00	32.32	Peak	No Limit
4 *	2435.0000	89.36	8.36	97.72	54.00	43.72	AVG	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

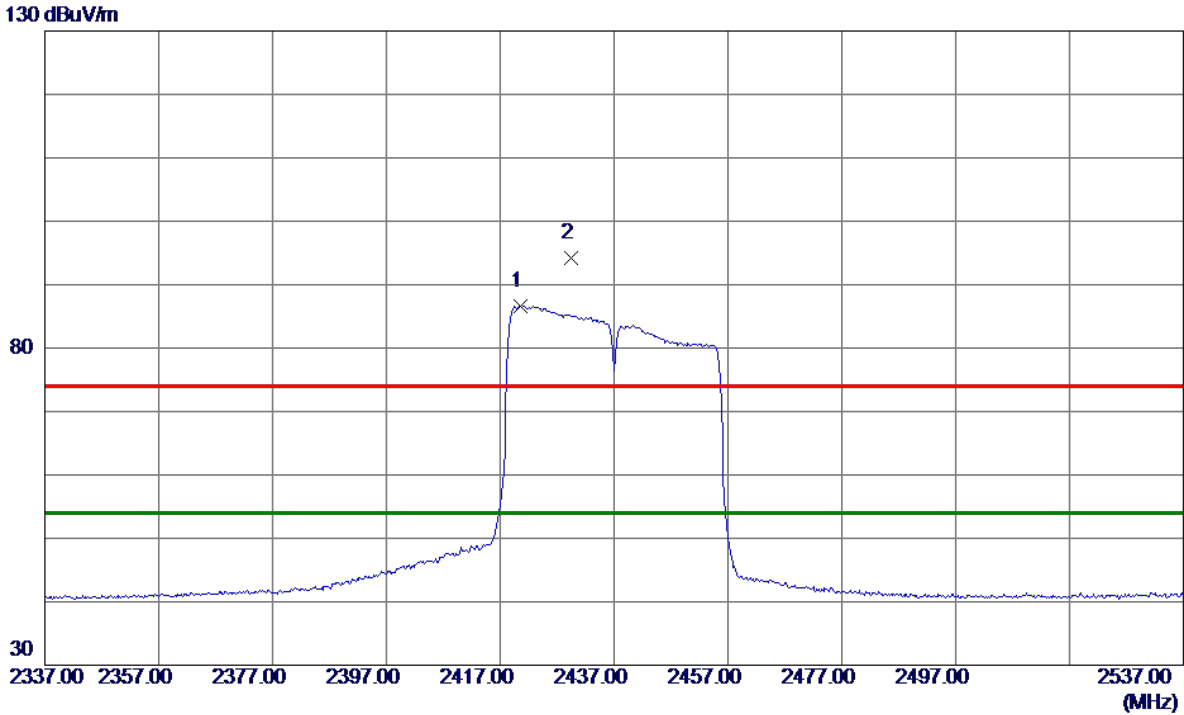


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7308.0000	47.60	10.69	58.29	74.00	-15.71	Peak	
2 *	7318.6500	37.89	10.70	48.59	54.00	-5.41	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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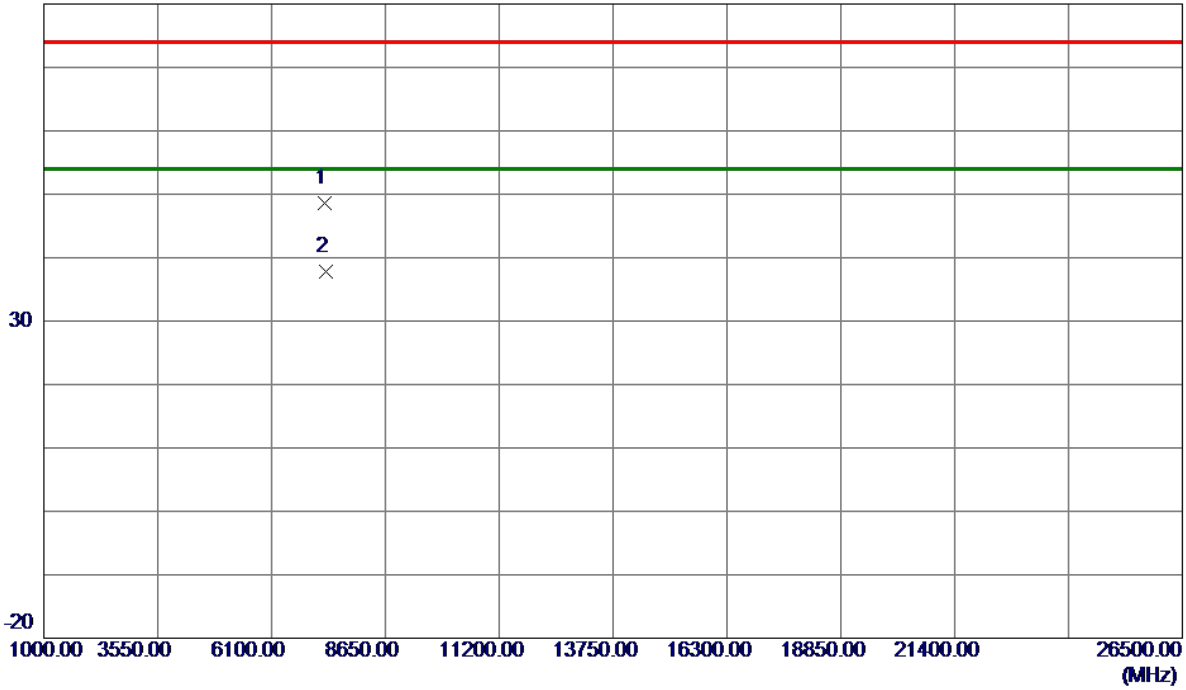
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2420.6000	78.34	8.34	86.68	54.00	32.68	AVG	No Limit
2	2429.4000	85.89	8.36	94.25	74.00	20.25	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

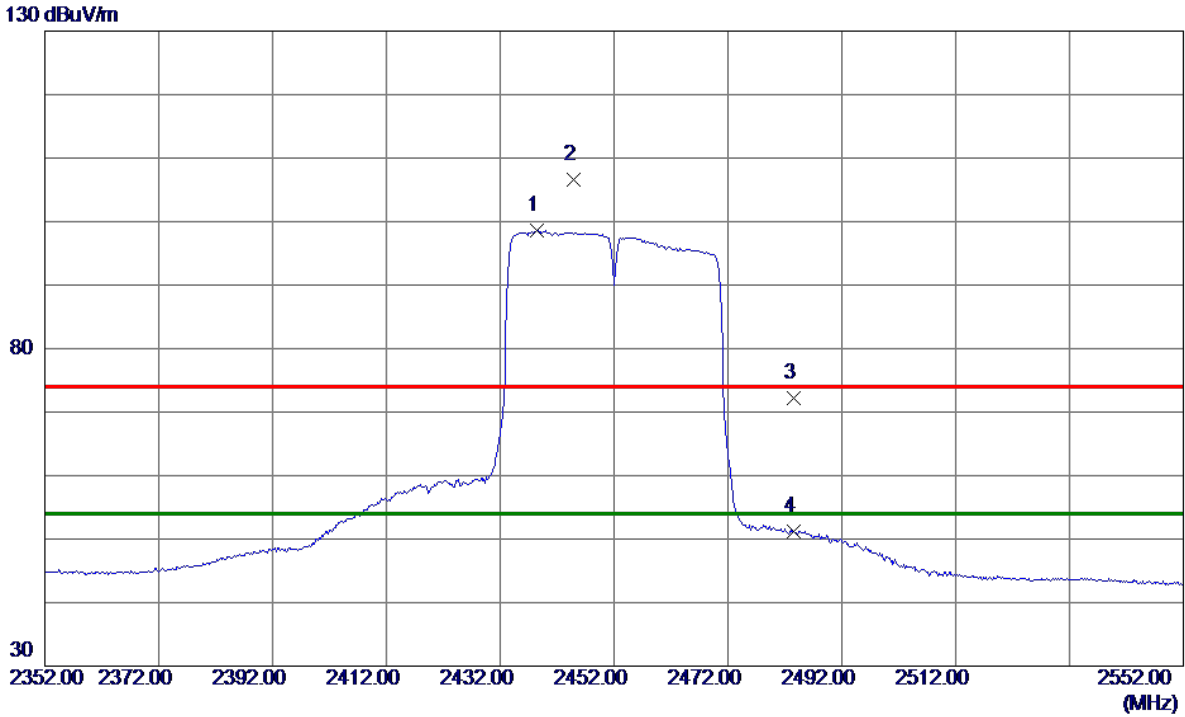


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7280.4500	38.03	10.65	48.68	74.00	-25.32	Peak	
2 *	7308.2000	27.11	10.69	37.80	54.00	-16.20	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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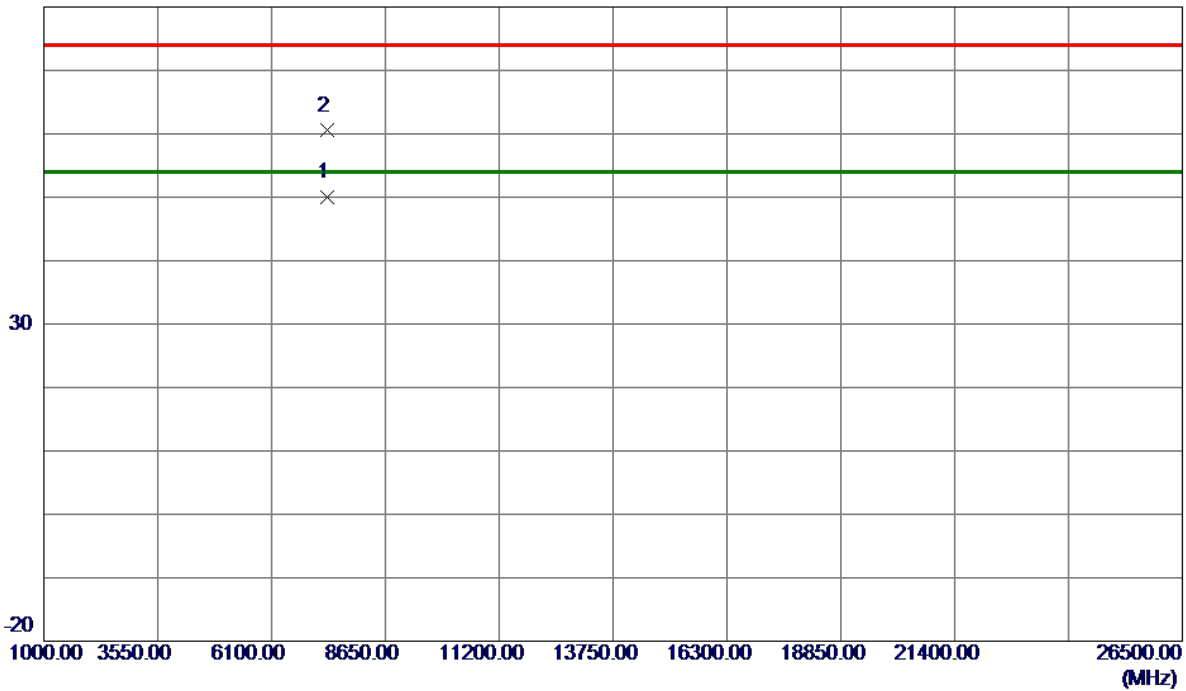
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.4000	90.18	8.37	98.55	54.00	44.55	AVG	No Limit
2	2444.8000	98.25	8.37	106.62	74.00	32.62	Peak	No Limit
3	2483.5000	63.74	8.42	72.16	74.00	-1.84	Peak	
4	2483.5000	42.79	8.42	51.21	54.00	-2.79	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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80 dBuV/m

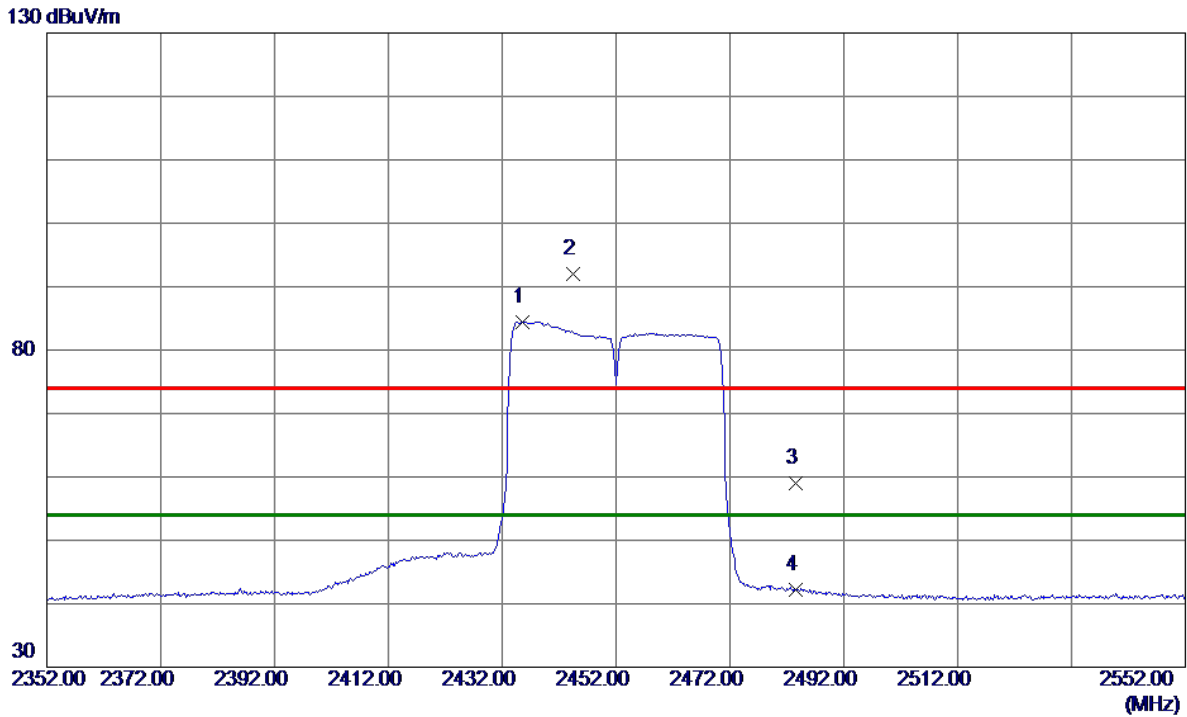


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7357.1000	39.32	10.75	50.07	54.00	-3.93	AVG	
2	7359.8000	49.74	10.76	60.50	74.00	-13.50	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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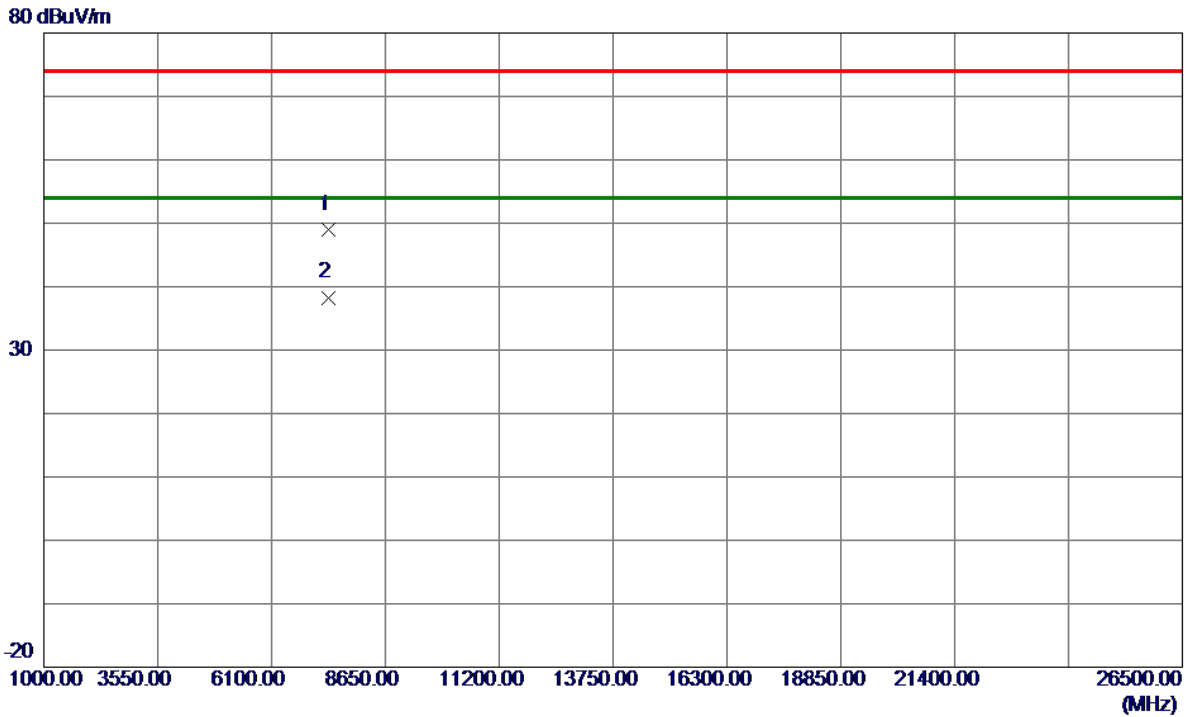


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.6000	76.11	8.36	84.47	54.00	30.47	AVG	No Limit
2	2444.4000	83.64	8.37	92.01	74.00	18.01	Peak	No Limit
3	2483.5000	50.58	8.42	59.00	74.00	-15.00	Peak	
4	2483.5000	33.71	8.42	42.13	54.00	-11.87	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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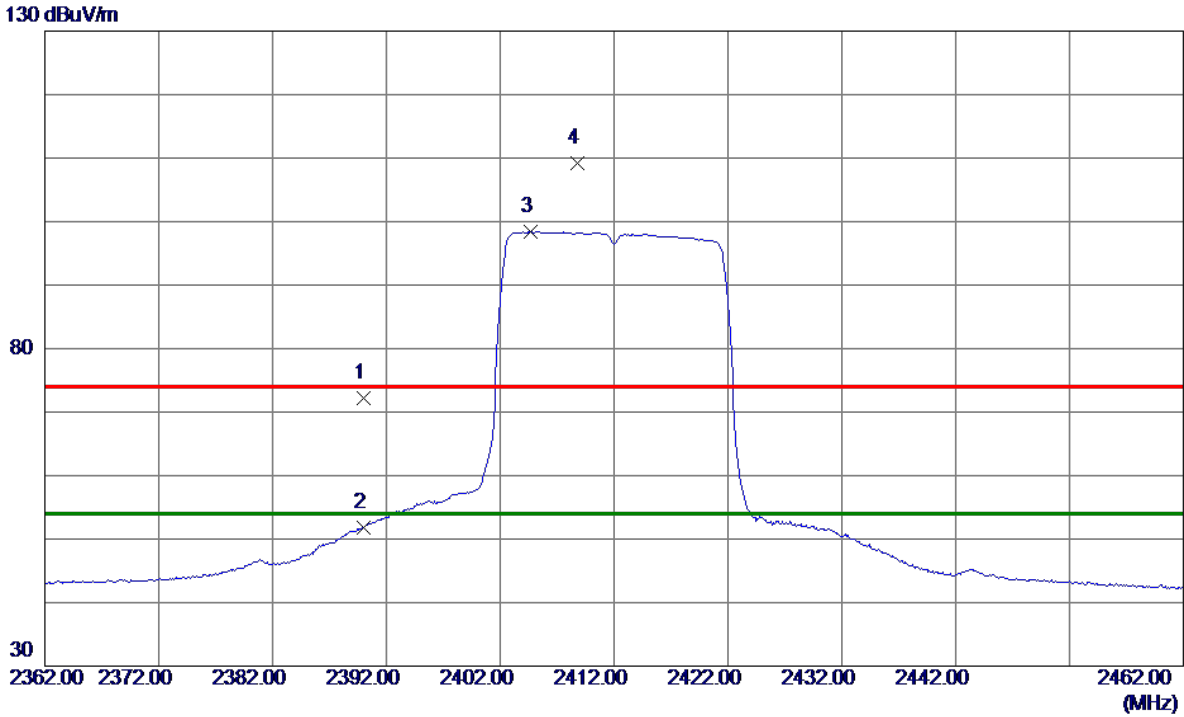
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7361.1500	38.26	10.76	49.02	74.00	-24.98	Peak	
2 *	7374.9000	27.52	10.78	38.30	54.00	-15.70	AVG	

**REMARKS:**

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



Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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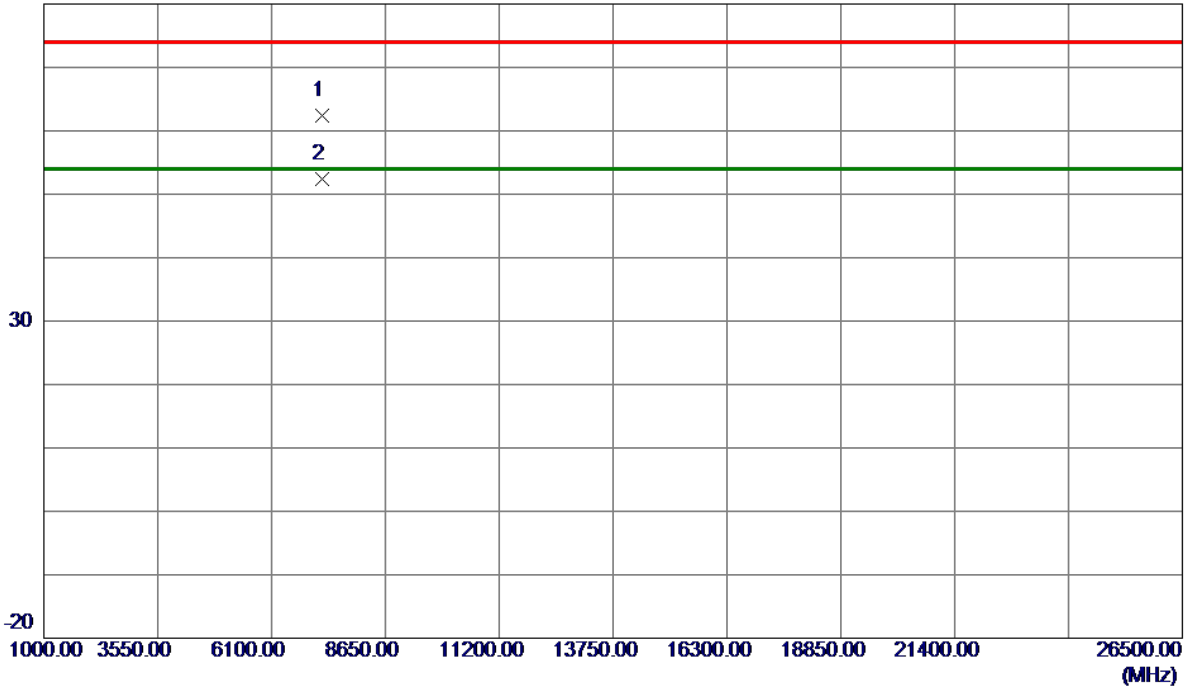
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	63.97	8.31	72.28	74.00	-1.72	Peak	
2	2390.0000	43.46	8.31	51.77	54.00	-2.23	AVG	
3 *	2404.7000	90.07	8.32	98.39	54.00	44.39	AVG	No Limit
4	2408.8000	100.86	8.33	109.19	74.00	35.19	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

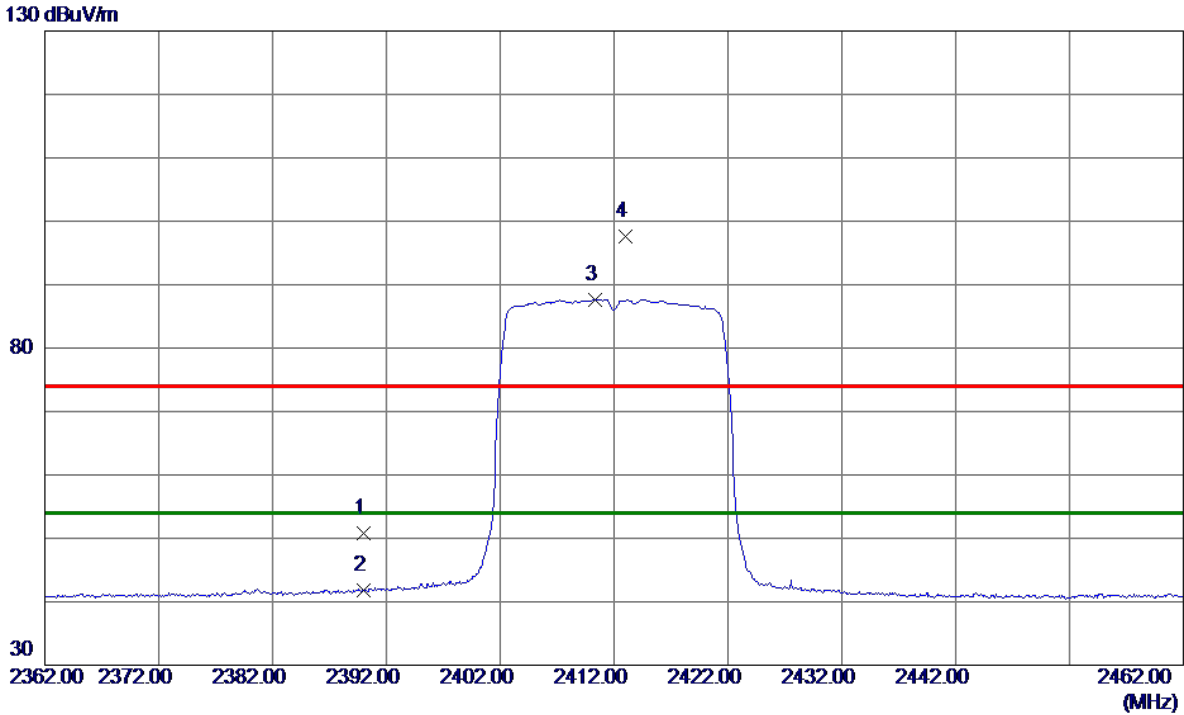


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7231.1750	51.73	10.59	62.32	74.00	-11.68	Peak	
2 *	7236.6500	41.76	10.60	52.36	54.00	-1.64	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal
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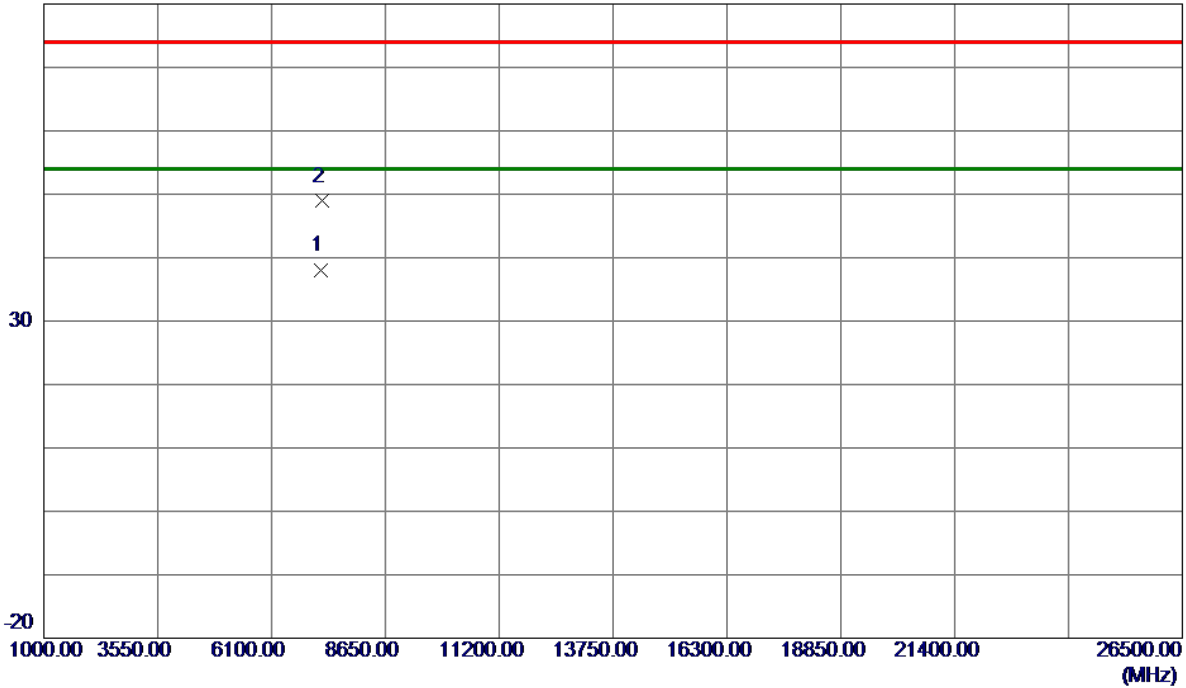
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.45	8.31	50.76	74.00	-23.24	Peak	
2	2390.0000	33.56	8.31	41.87	54.00	-12.13	AVG	
3 *	2410.3000	79.33	8.33	87.66	54.00	33.66	AVG	No Limit
4	2413.0000	89.31	8.33	97.64	74.00	23.64	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

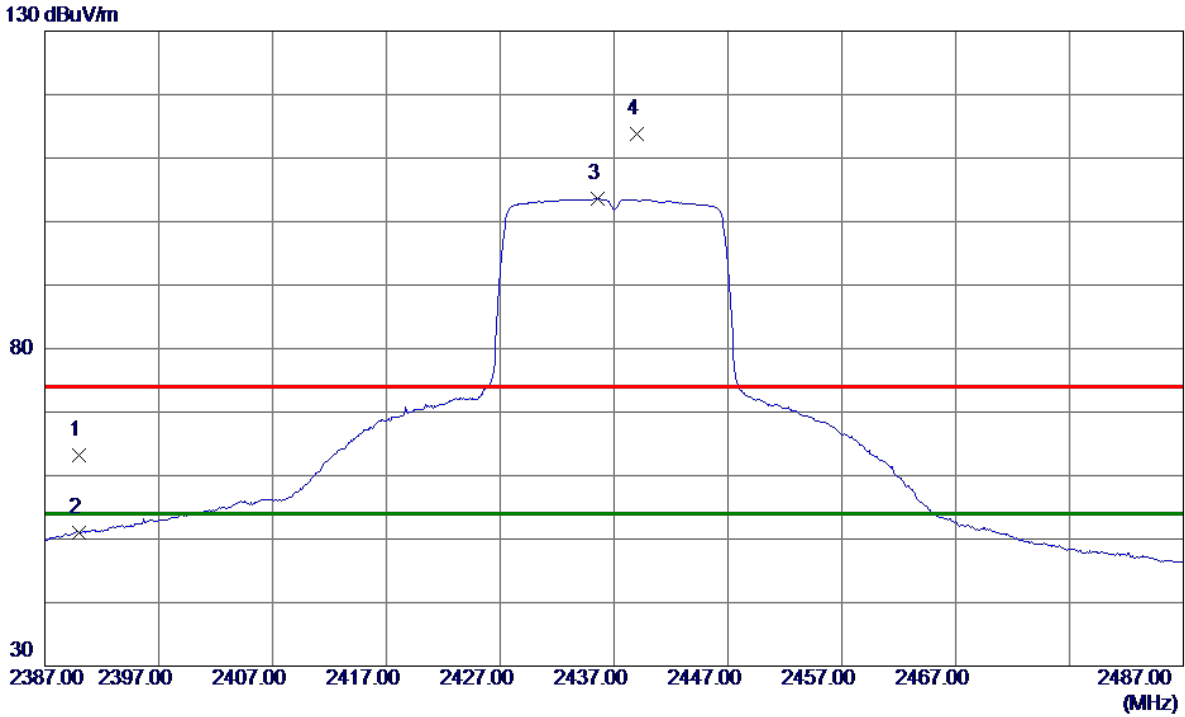


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7219.1000	27.45	10.57	38.02	54.00	-15.98	AVG	
2	7229.3750	38.31	10.59	48.90	74.00	-25.10	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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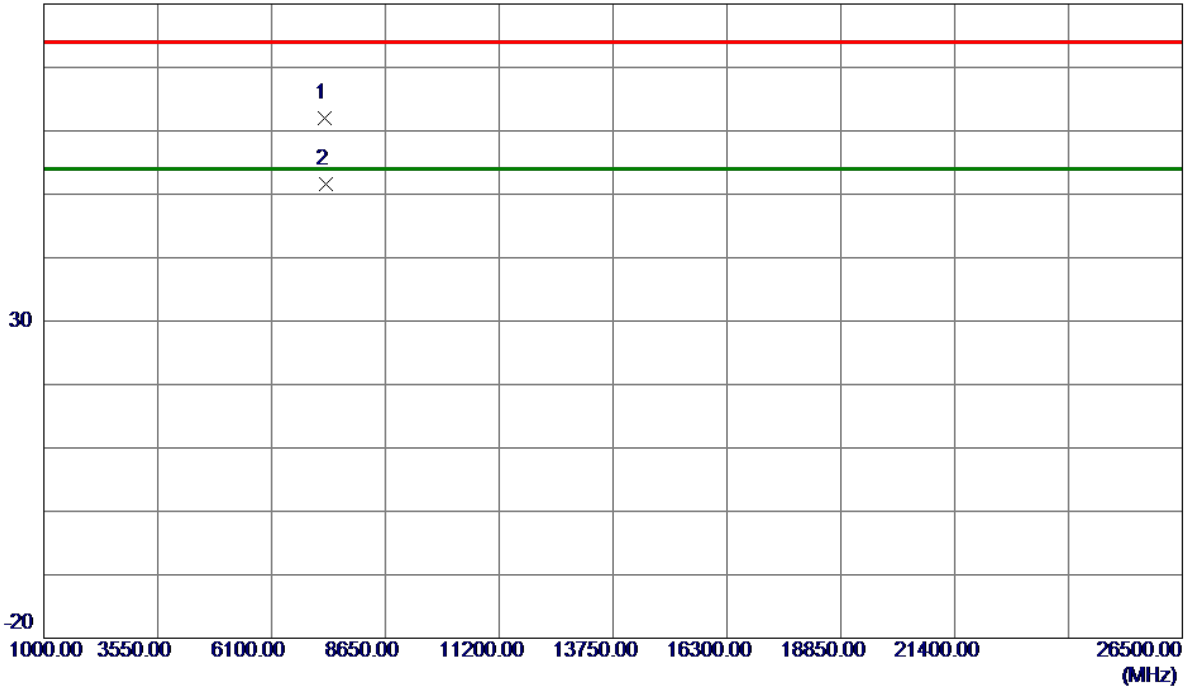
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	54.98	8.31	63.29	74.00	-10.71	Peak	
2	2390.0000	42.71	8.31	51.02	54.00	-2.98	AVG	
3 *	2435.6000	95.23	8.36	103.59	54.00	49.59	AVG	No Limit
4	2439.0000	105.36	8.37	113.73	74.00	39.73	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

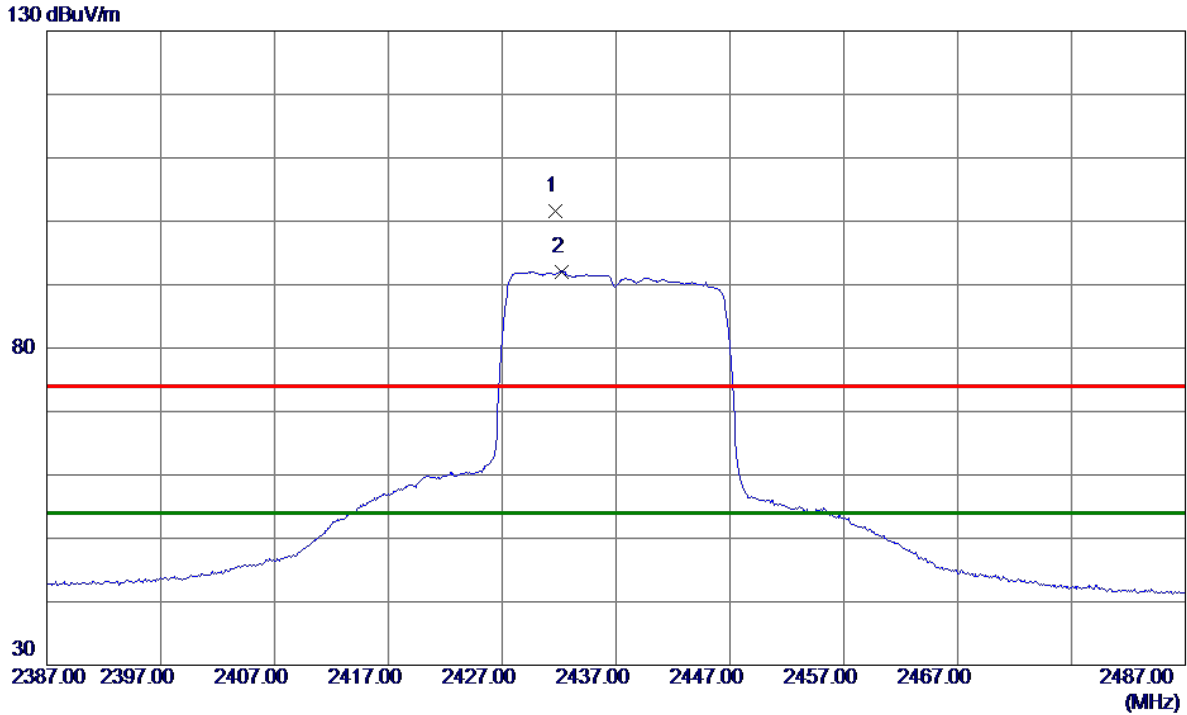


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7302.9250	51.29	10.68	61.97	74.00	-12.03	Peak	
2 *	7311.6250	40.83	10.70	51.53	54.00	-2.47	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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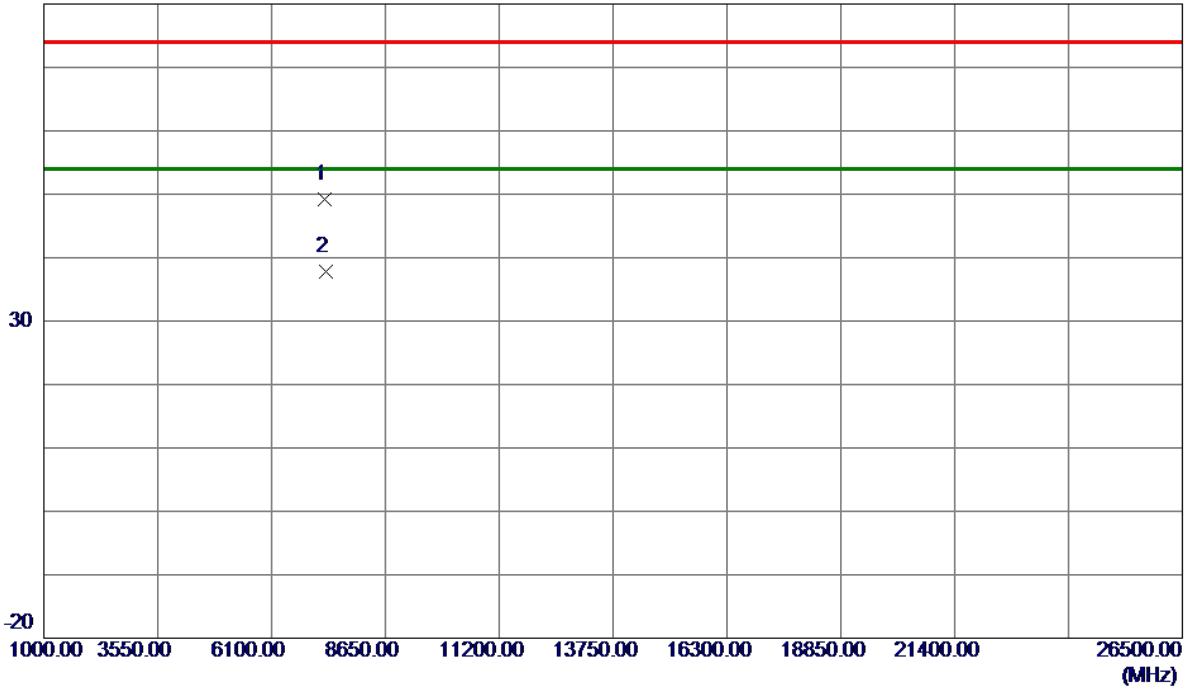
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.7000	93.18	8.36	101.54	74.00	27.54	Peak	No Limit
2 *	2432.2000	83.74	8.36	92.10	54.00	38.10	AVG	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m



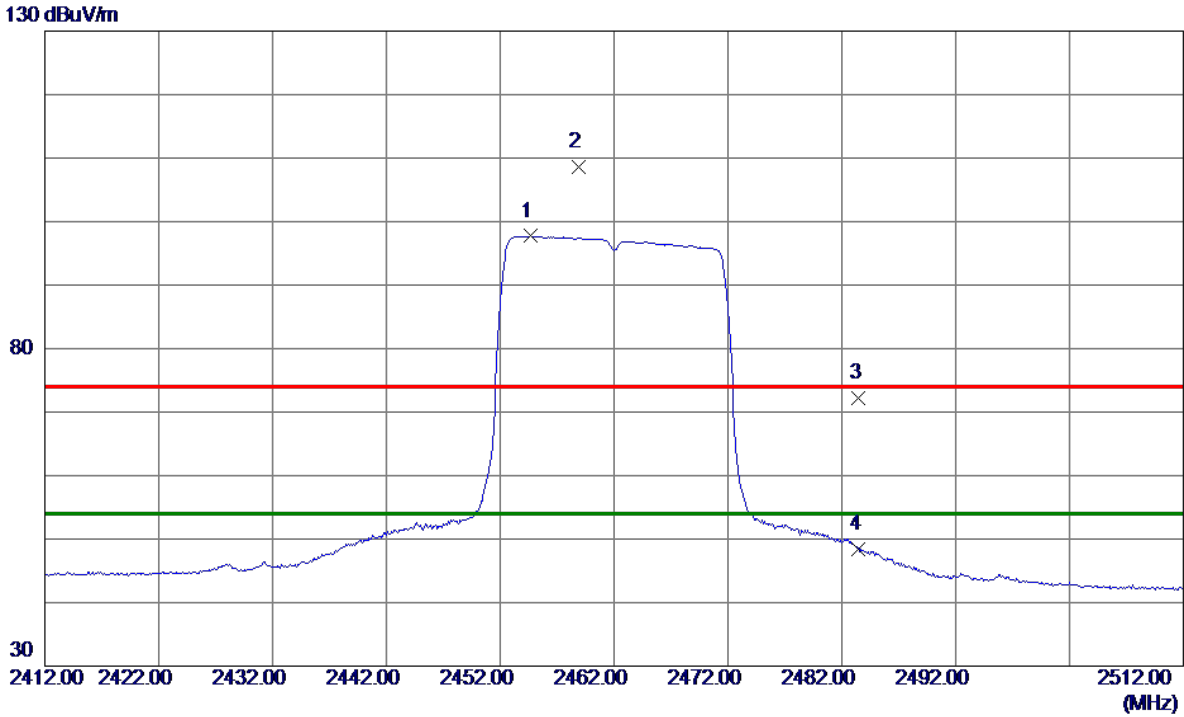
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7293.3500	38.60	10.67	49.27	74.00	-24.73	Peak	
2 *	7308.5000	27.05	10.69	37.74	54.00	-16.26	AVG	

REMARKS:

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



Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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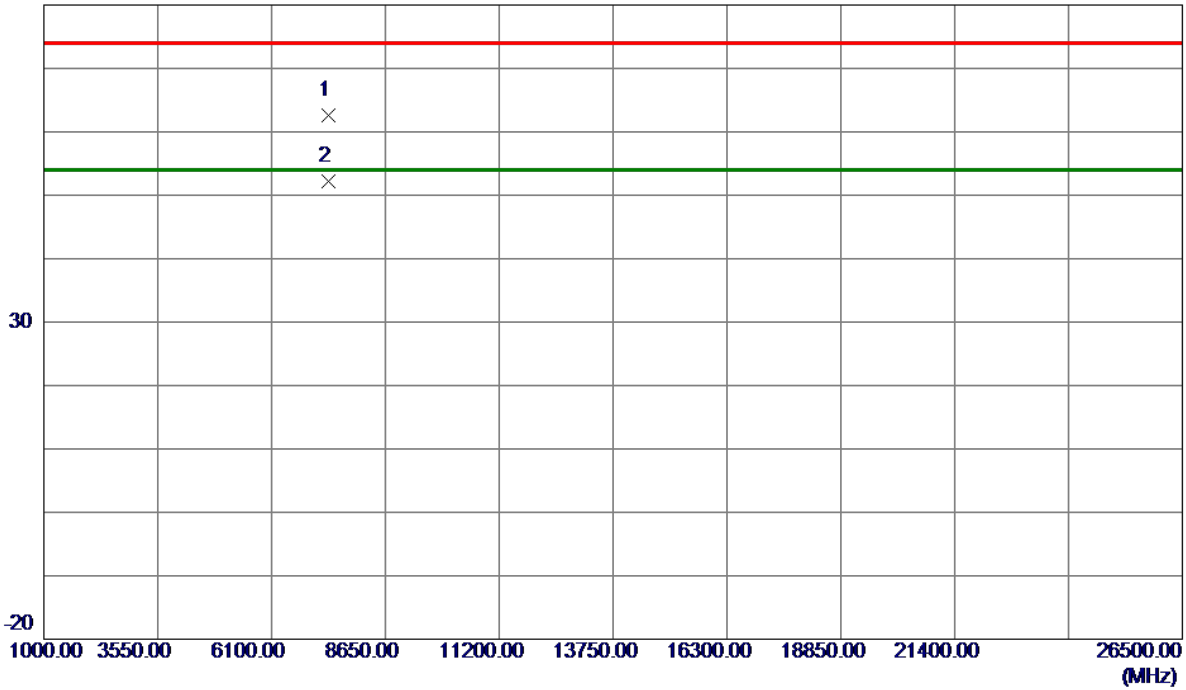
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.7000	89.31	8.39	97.70	54.00	43.70	AVG	No Limit
2	2458.9000	100.28	8.39	108.67	74.00	34.67	Peak	No Limit
3	2483.5000	63.83	8.42	72.25	74.00	-1.75	Peak	
4	2483.5000	40.04	8.42	48.46	54.00	-5.54	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

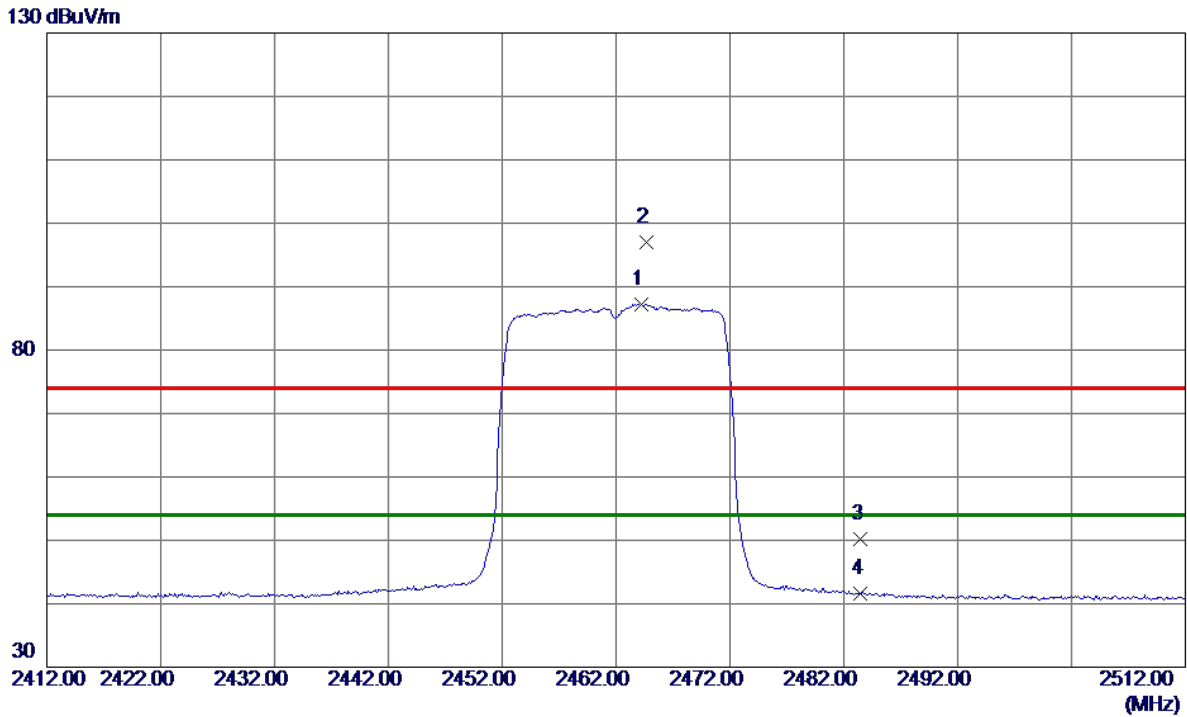


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7378.8000	51.88	10.78	62.66	74.00	-11.34	Peak	
2 *	7386.7250	41.44	10.79	52.23	54.00	-1.77	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal
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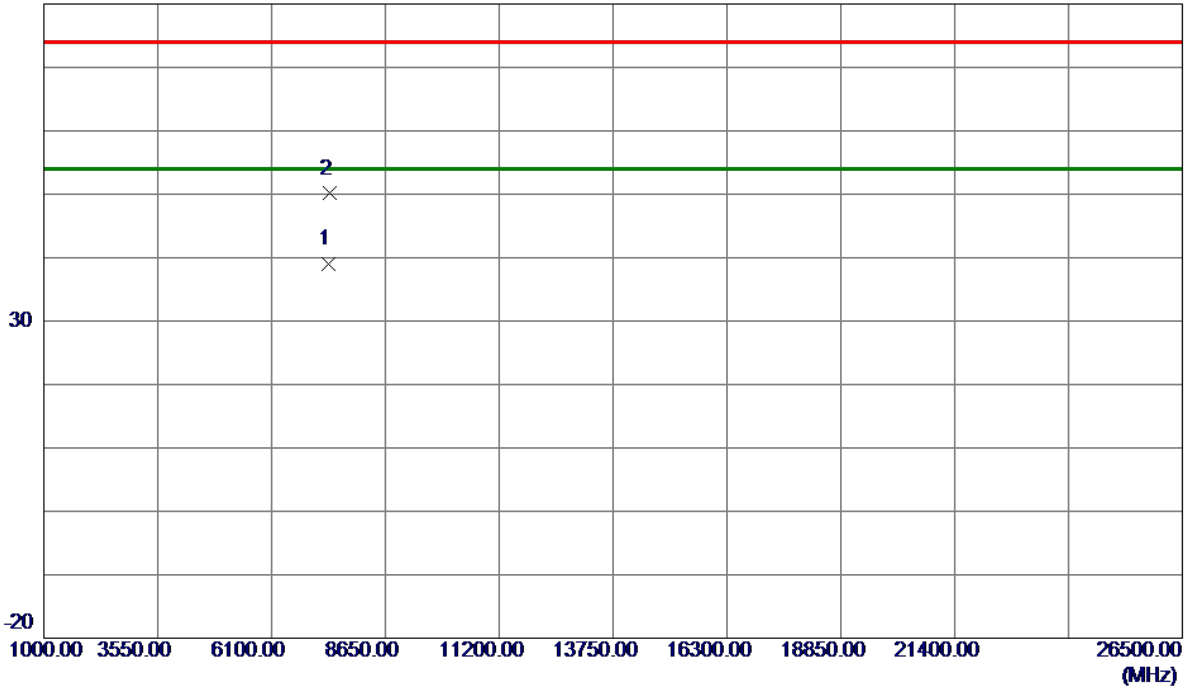
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2464.2000	78.77	8.40	87.17	54.00	33.17	AVG	No Limit
2	2464.7000	88.53	8.40	96.93	74.00	22.93	Peak	No Limit
3	2483.5000	41.75	8.42	50.17	74.00	-23.83	Peak	
4	2483.5000	33.23	8.42	41.65	54.00	-12.35	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m

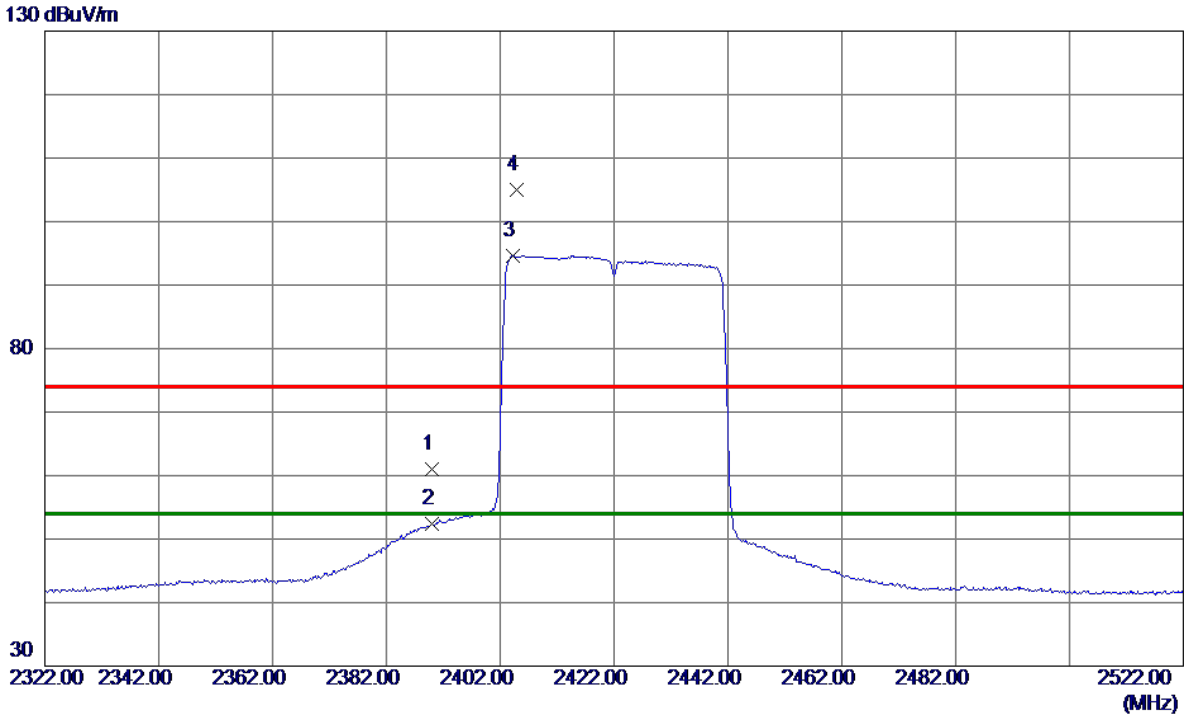


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7381.2750	28.17	10.79	38.96	54.00	-15.04	AVG	
2	7396.1000	39.30	10.80	50.10	74.00	-23.90	Peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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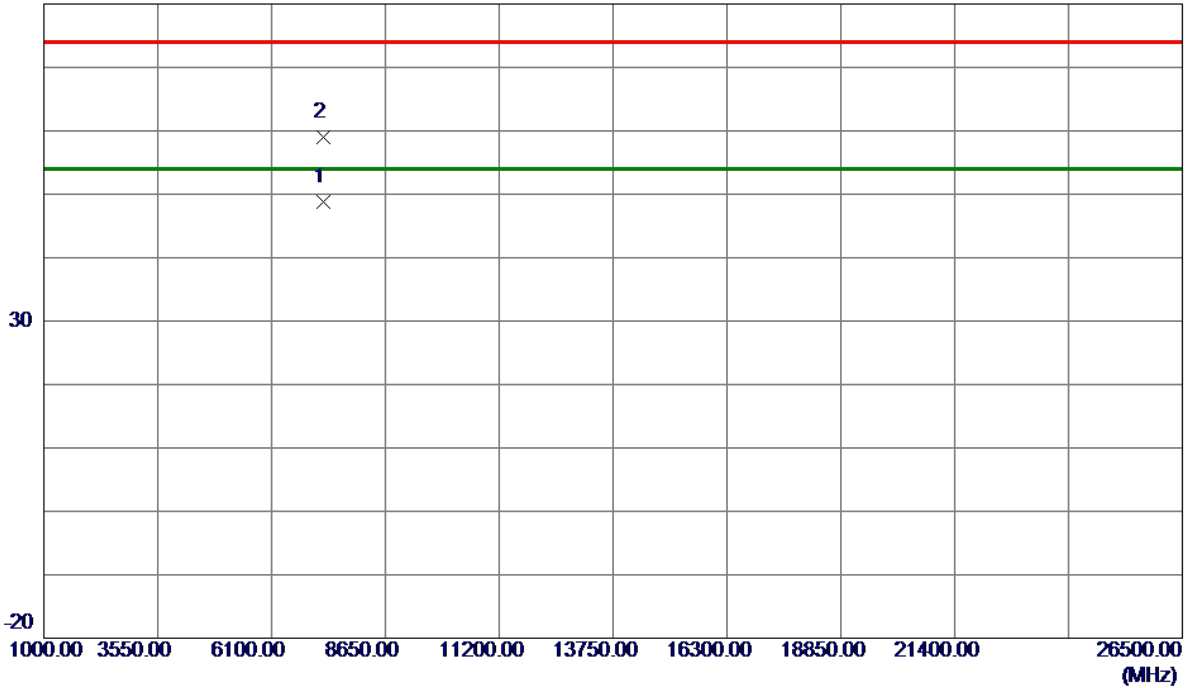
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.63	8.31	60.94	74.00	-13.06	Peak	
2	2390.0000	44.00	8.31	52.31	54.00	-1.69	AVG	
3 *	2404.2000	86.25	8.32	94.57	54.00	40.57	AVG	No Limit
4	2404.8000	96.60	8.32	104.92	74.00	30.92	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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80 dBuV/m

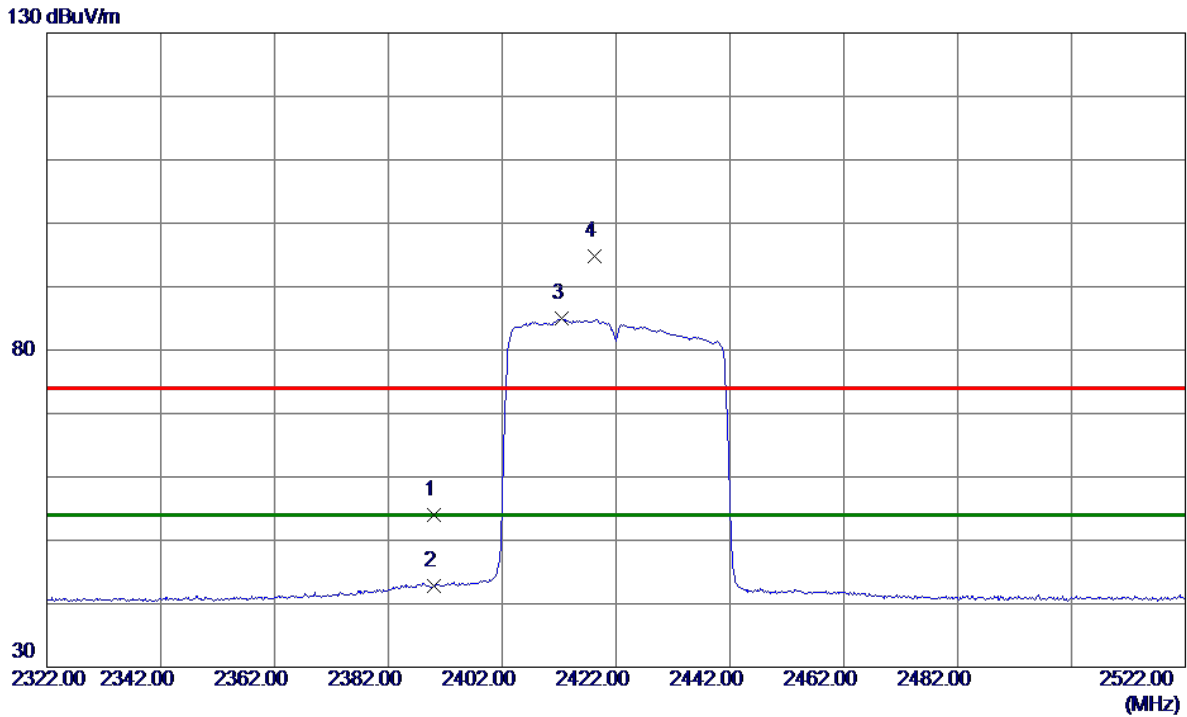


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7260.2000	38.19	10.63	48.82	54.00	-5.18	AVG	
2	7271.1000	48.37	10.64	59.01	74.00	-14.99	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal
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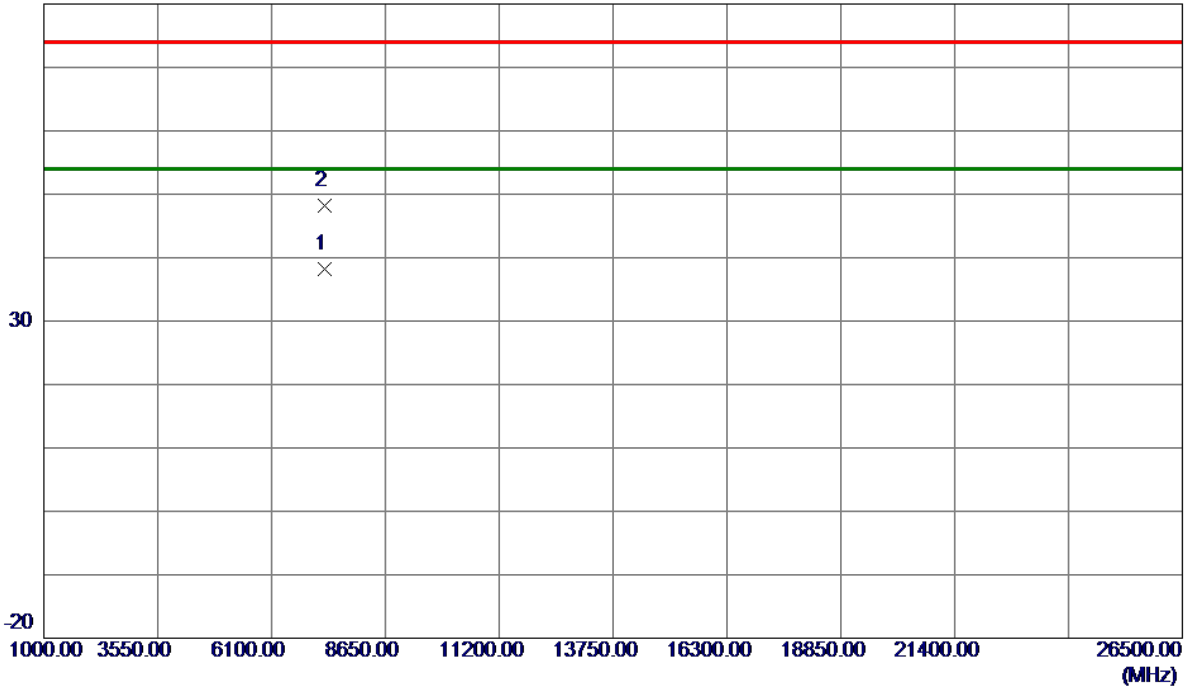
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.73	8.31	54.04	74.00	-19.96	Peak	
2	2390.0000	34.58	8.31	42.89	54.00	-11.11	AVG	
3 *	2412.4000	76.69	8.33	85.02	54.00	31.02	AVG	No Limit
4	2418.2000	86.39	8.34	94.73	74.00	20.73	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal
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80 dBuV/m



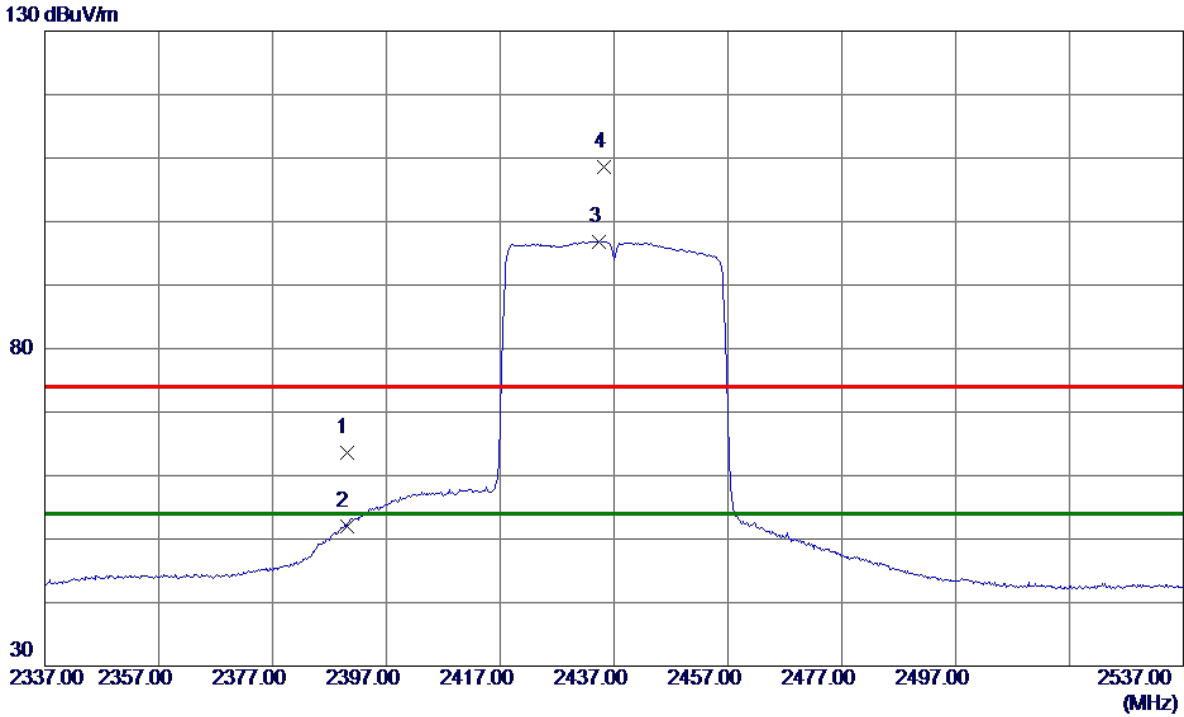
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7277.0000	27.62	10.65	38.27	54.00	-15.73	AVG	
2	7284.0000	37.62	10.66	48.28	74.00	-25.72	Peak	

REMARKS:

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



Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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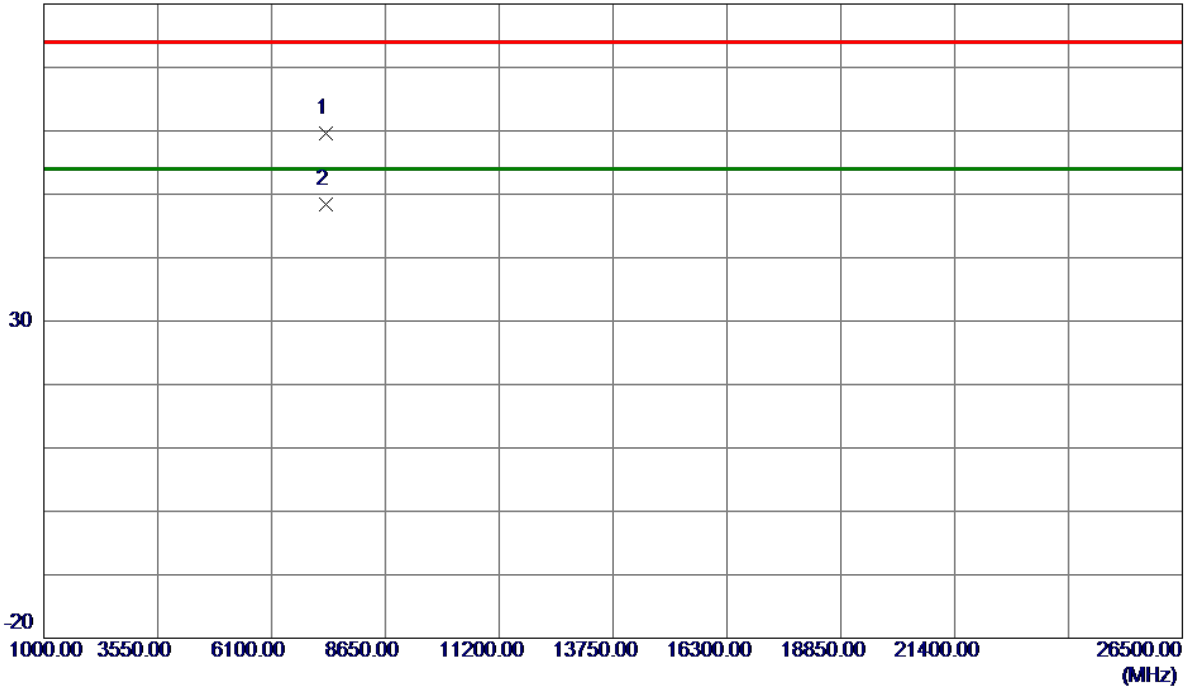
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.20	8.31	63.51	74.00	-10.49	Peak	
2	2390.0000	43.70	8.31	52.01	54.00	-1.99	AVG	
3 *	2434.4000	88.52	8.36	96.88	54.00	42.88	AVG	No Limit
4	2435.2000	100.20	8.36	108.56	74.00	34.56	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

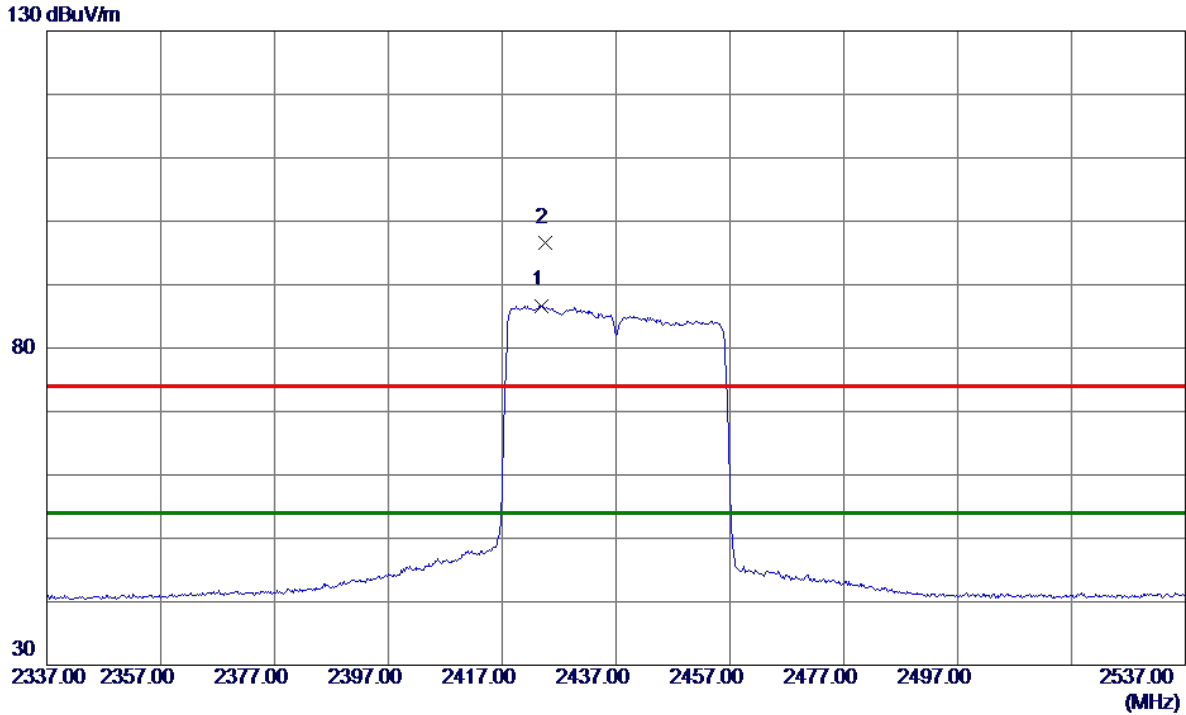


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7312.4500	48.94	10.70	59.64	74.00	-14.36	Peak	
2 *	7319.8000	37.65	10.71	48.36	54.00	-5.64	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal
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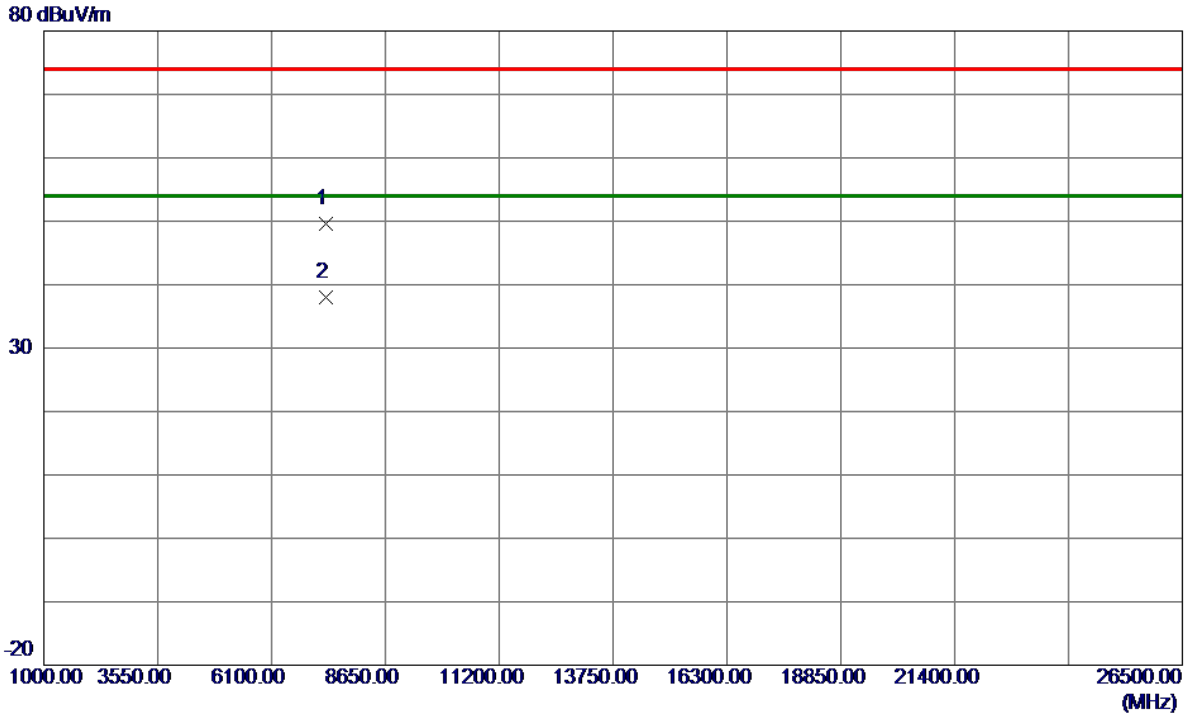


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2423.8000	78.35	8.35	86.70	54.00	32.70	AVG	No Limit
2	2424.6000	88.24	8.35	96.59	74.00	22.59	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal
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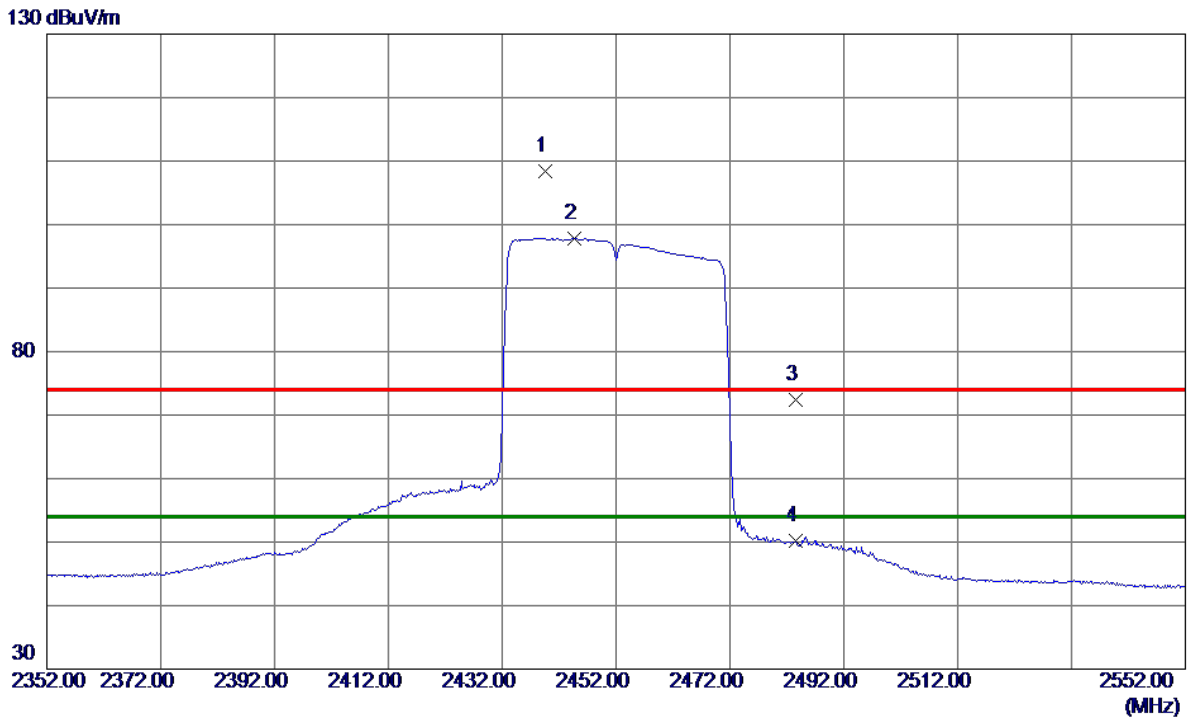


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7306.4000	38.86	10.69	49.55	74.00	-24.45	Peak	
2 *	7308.2000	27.25	10.69	37.94	54.00	-16.06	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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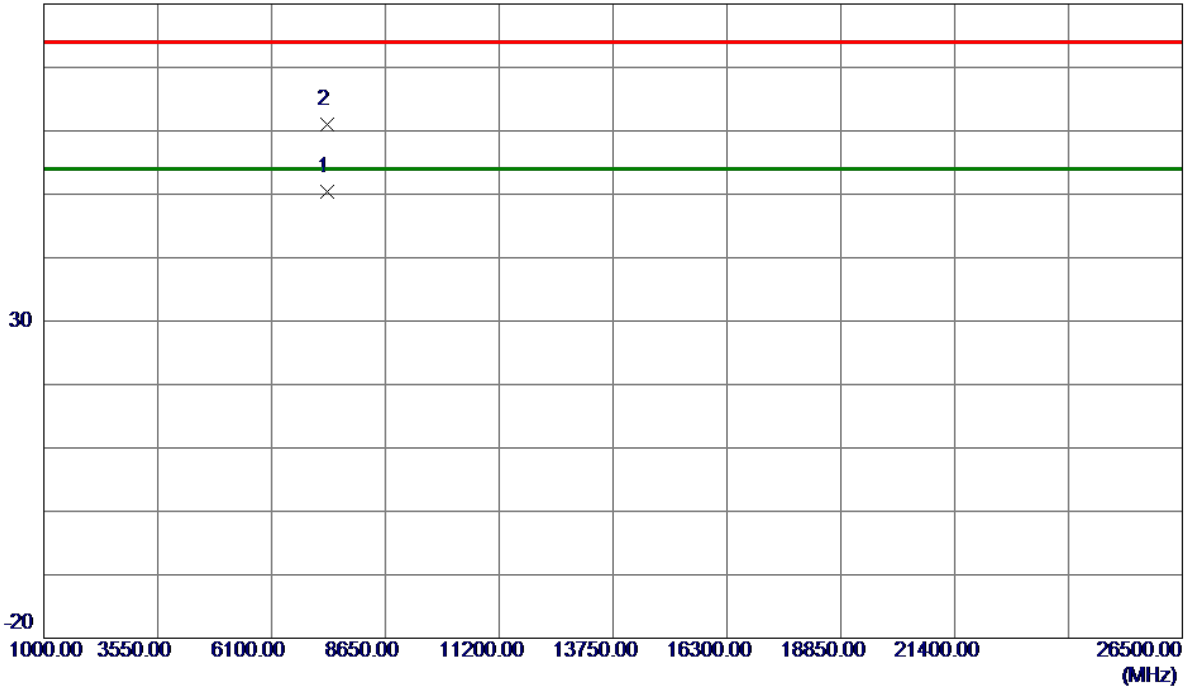
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.6000	99.94	8.37	108.31	74.00	34.31	Peak	No Limit
2 *	2444.6000	89.46	8.37	97.83	54.00	43.83	AVG	No Limit
3	2483.5000	63.92	8.42	72.34	74.00	-1.66	Peak	
4	2483.5000	41.78	8.42	50.20	54.00	-3.80	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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80 dBuV/m

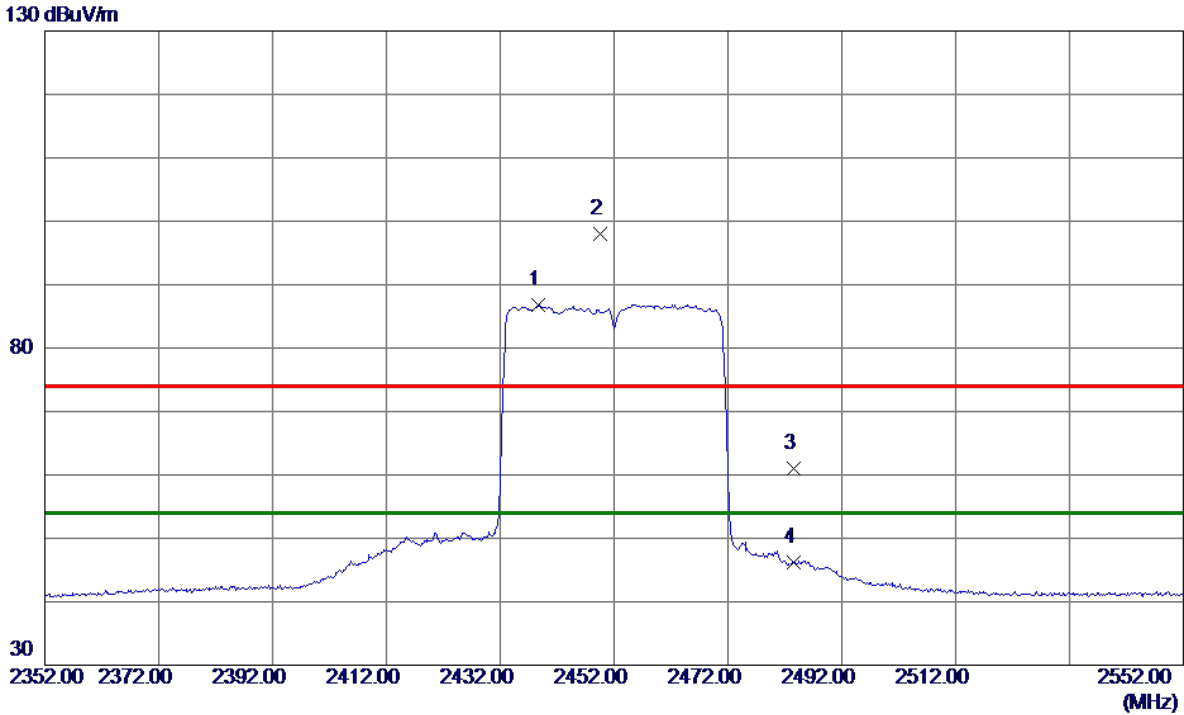


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7350.3500	39.67	10.75	50.42	54.00	-3.58	AVG	
2	7355.4000	50.18	10.75	60.93	74.00	-13.07	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal
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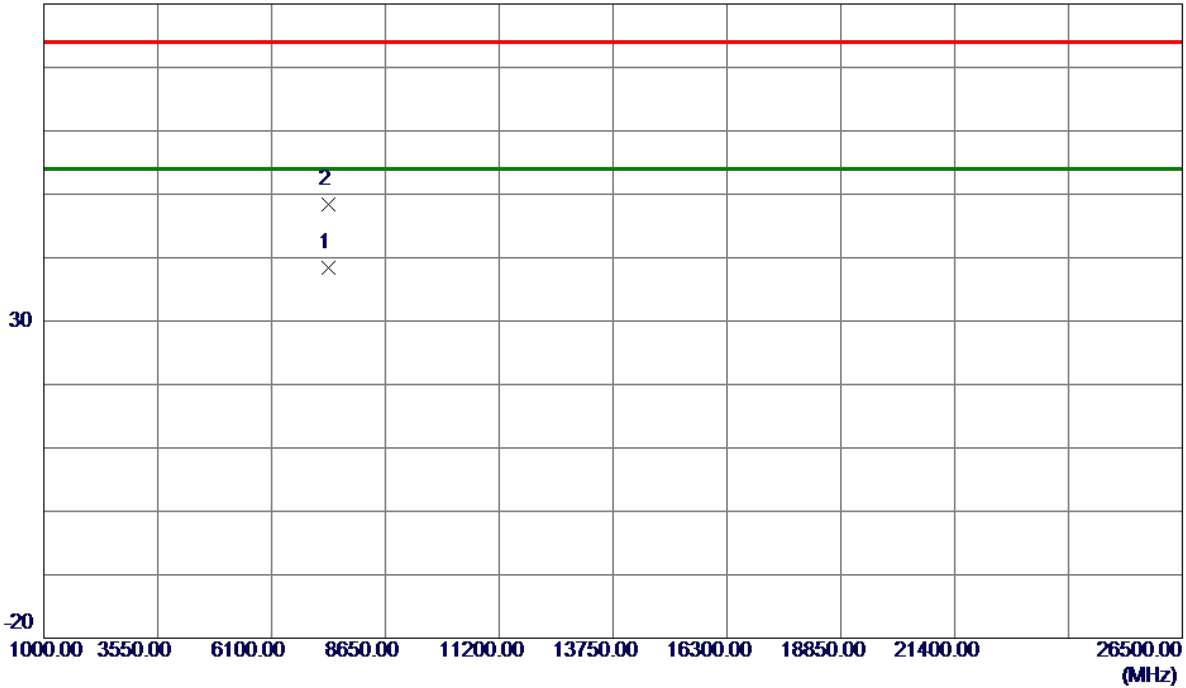
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.6000	78.44	8.37	86.81	54.00	32.81	AVG	No Limit
2	2449.6000	89.57	8.38	97.95	74.00	23.95	Peak	No Limit
3	2483.5000	52.62	8.42	61.04	74.00	-12.96	Peak	
4	2483.5000	37.71	8.42	46.13	54.00	-7.87	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal
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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 *	7375.0000	27.67	10.78	38.45	54.00	-15.55	AVG	
2	7378.6500	37.70	10.78	48.48	74.00	-25.52	Peak	

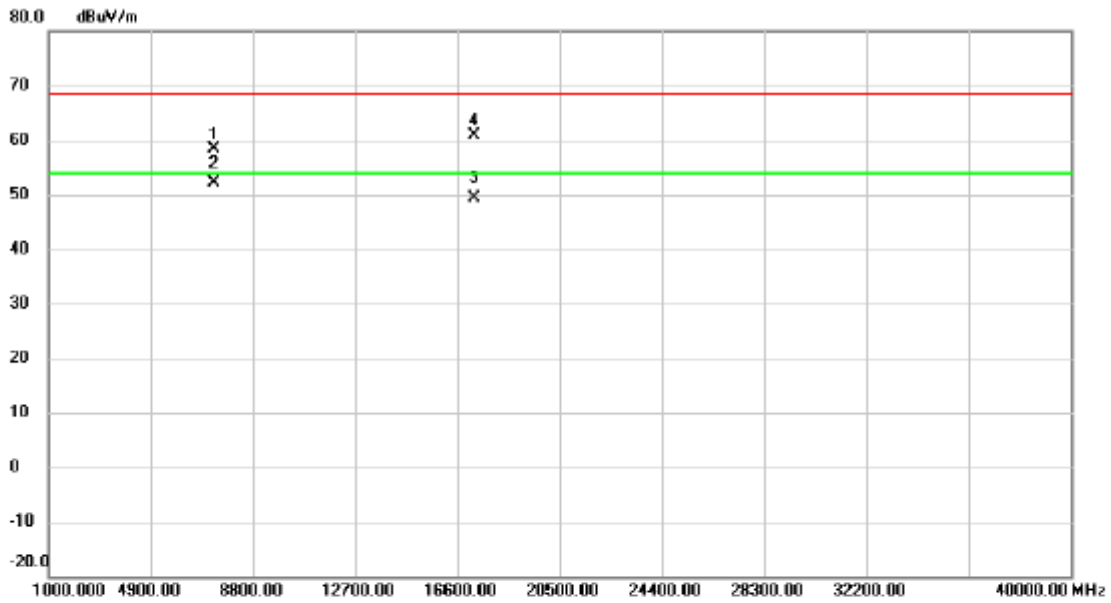
REMARKS:

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



The worst case of simultaneous transmission:

Test Mode	TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5745MHz	Polarization	Vertical
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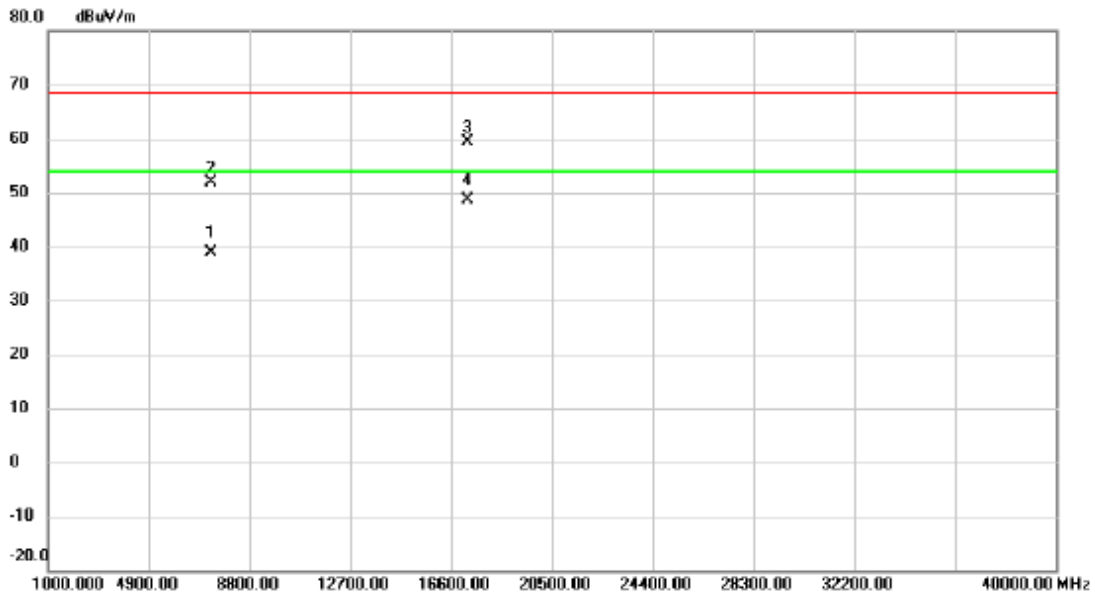


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7312.524	46.35	12.08	58.43	68.30	-9.87	peak	
2 *	7312.632	40.09	12.08	52.17	54.00	-1.83	AVG	
3	17235.526	25.29	23.99	49.28	54.00	-4.72	AVG	
4	17236.698	36.96	23.99	60.95	68.30	-7.35	peak	

REMARKS:

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

Test Mode	TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5745MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7308.693	26.82	12.08	38.90	54.00	-15.10	AVG	
2		7310.285	39.68	12.09	51.77	68.30	-16.53	peak	
3		17235.963	35.29	23.99	59.28	68.30	-9.02	peak	
4	*	17238.652	24.59	23.99	48.58	54.00	-5.42	AVG	

**REMARKS:**

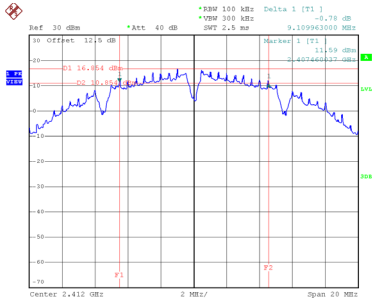
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.11	16.72	0.50	Complies
06	2437	9.16	16.72	0.50	Complies
11	2462	10.12	16.64	0.50	Complies

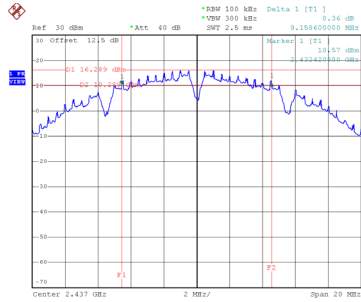
**CH01**



Date: 30.AUG.2021 17:15:12

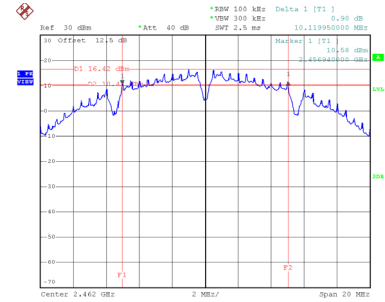
**CH06**

**6 dB Bandwidth**



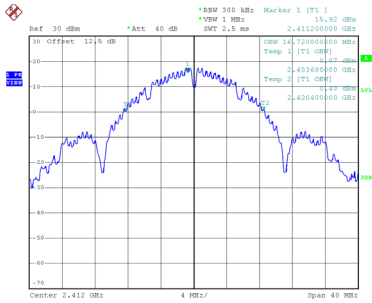
Date: 30.AUG.2021 17:17:50

**CH11**

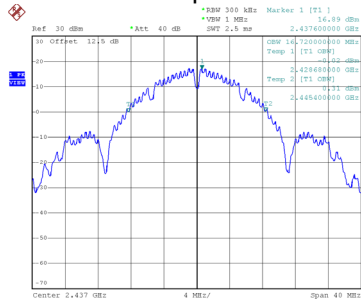


Date: 30.AUG.2021 17:19:50

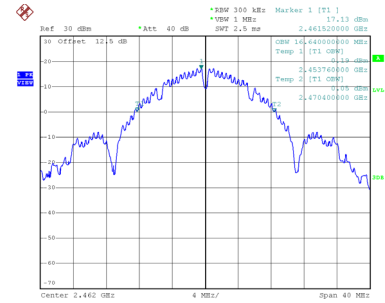
**99 % Occupied Bandwidth**



Date: 30.AUG.2021 17:15:21



Date: 30.AUG.2021 17:17:59

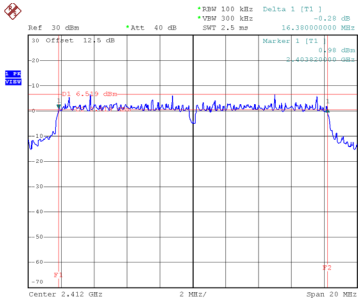


Date: 30.AUG.2021 17:19:59

Test Mode	TX G Mode
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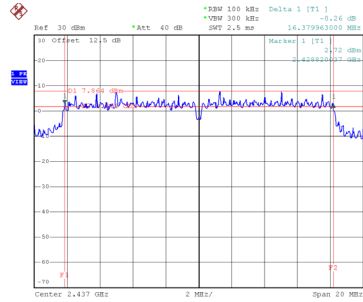
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.38	26.00	0.50	Complies
06	2437	16.37	36.60	0.50	Complies
11	2462	16.38	37.92	0.50	Complies

**CH01**



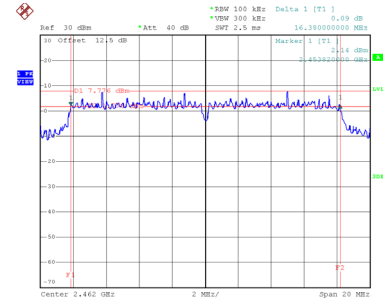
Date: 9.OCT.2021 04:52:05

**CH06**  
6 dB Bandwidth



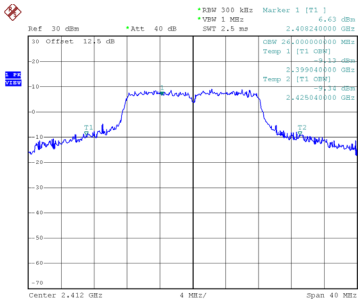
Date: 9.OCT.2021 04:52:52

**CH11**

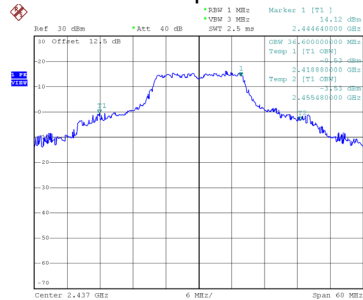


Date: 9.OCT.2021 05:01:55

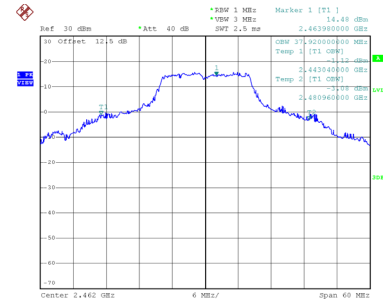
**99 % Occupied Bandwidth**



Date: 9.OCT.2021 04:52:12



Date: 9.OCT.2021 05:24:51

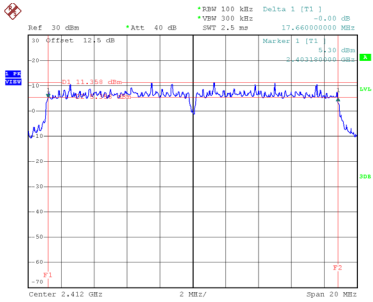


Date: 9.OCT.2021 05:03:44

Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.66	20.08	0.50	Complies
06	2437	17.66	38.88	0.50	Complies
11	2462	17.64	38.40	0.50	Complies

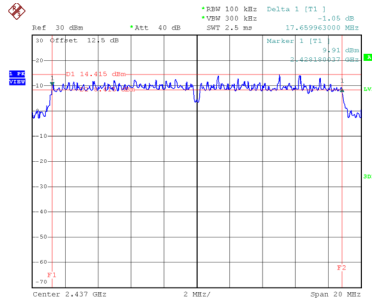
**CH01**



Date: 9.OCT.2021 05:50:32

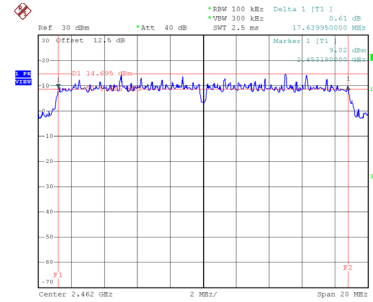
**CH06**

**6 dB Bandwidth**



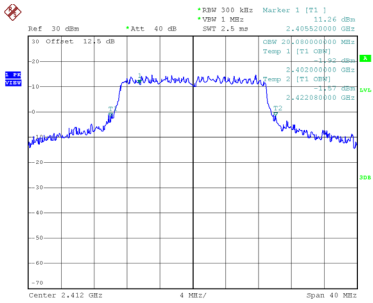
Date: 9.OCT.2021 05:51:15

**CH11**

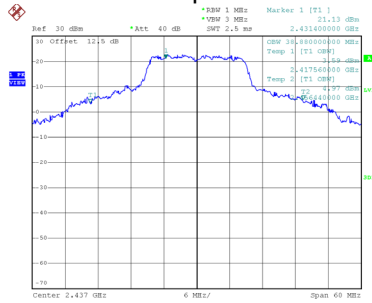


Date: 9.OCT.2021 05:52:03

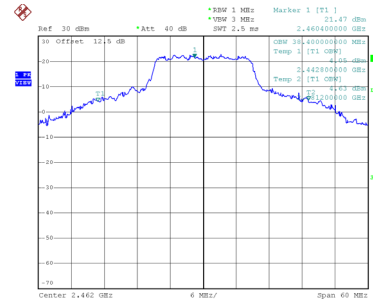
**99 % Occupied Bandwidth**



Date: 9.OCT.2021 05:50:40



Date: 9.OCT.2021 05:51:34

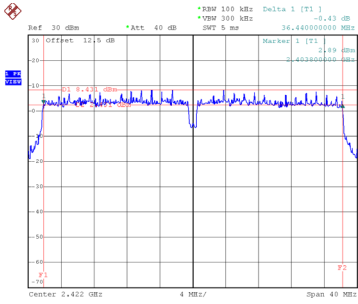


Date: 9.OCT.2021 05:52:21

Test Mode	TX N(HT40) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.44	38.72	0.50	Complies
06	2437	36.44	36.96	0.50	Complies
09	2452	36.48	38.24	0.50	Complies

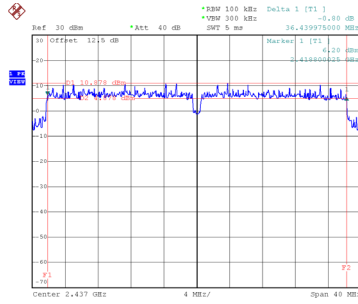
**CH03**



Date: 9.OCT.2021 05:53:00

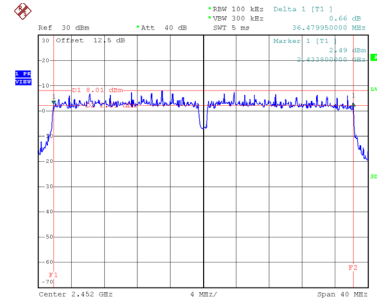
**CH06**

**6 dB Bandwidth**



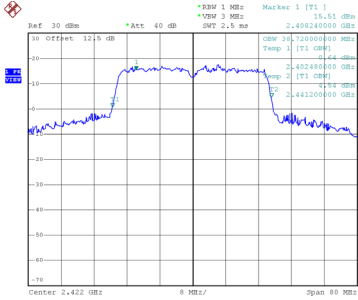
Date: 9.OCT.2021 05:53:45

**CH09**

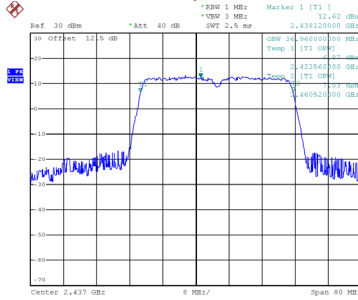


Date: 9.OCT.2021 05:54:29

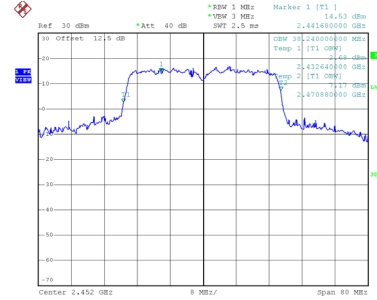
**99 % Occupied Bandwidth**



Date: 9.OCT.2021 05:53:08



Date: 11.OCT.2021 18:58:05



Date: 9.OCT.2021 05:54:37