

# FCC Radio Test Report

## FCC ID: 2AX3BKX45

This report concerns: Original Grant

**Project No.** : 2105C129  
**Equipment** : AX1800 Dual Band Gigabit WiFi Router  
**Brand Name** : Speedefy  
**Test Model** : KX450  
**Series Model** : K450X(X can be A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z and blank.)  
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**Address** : NO.415, 4F, ZHONGZHI NEXONE BUILDING, SANLIAN COMMUNITY, LONGHUA STREET, LONGHUA DISTRICT, SHENZHEN, CHINA  
**Manufacturer** : SHENZHEN TENO NETWORK TECHNOLOGIES CO.,LTD  
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**Date of Receipt** : Jun. 11, 2021  
**Date of Test** : Jun. 11, 2021~Jun. 23, 2021  
**Issued Date** : Jun. 29, 2021  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2021052031 for Radiated;  
DG2021052032 for conducted.  
**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 #5123.03

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**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

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

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

<b>Table of Contents</b>	<b>Page</b>
<b>REPORT ISSUED HISTORY</b>	<b>6</b>
<b>1 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	8
<b>2 . GENERAL INFORMATION</b>	<b>9</b>
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 DESCRIPTION OF TEST MODES	11
2.3 PARAMETERS OF TEST SOFTWARE	13
2.4 DUTY CYCLE	14
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	16
2.6 SUPPORT UNITS	16
<b>3 . AC POWER LINE CONDUCTED EMISSIONS</b>	<b>17</b>
3.1 LIMIT	17
3.2 TEST PROCEDURE	17
3.3 DEVIATION FROM TEST STANDARD	17
3.4 TEST SETUP	18
3.5 EUT OPERATION CONDITIONS	18
3.6 TEST RESULTS	18
<b>4 . RADIATED EMISSIONS</b>	<b>19</b>
4.1 LIMIT	19
4.2 TEST PROCEDURE	20
4.3 DEVIATION FROM TEST STANDARD	21
4.4 TEST SETUP	21
4.5 EUT OPERATION CONDITIONS	22
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	22
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	22
4.8 TEST RESULTS - ABOVE 1000 MHZ	22
<b>5 . BANDWIDTH</b>	<b>23</b>
5.1 LIMIT	23
5.2 TEST PROCEDURE	23
5.3 DEVIATION FROM STANDARD	23
5.4 TEST SETUP	23

<b>Table of Contents</b>	<b>Page</b>
5.5 EUT OPERATION CONDITIONS	23
5.6 TEST RESULTS	23
<b>6 . MAXIMUM OUTPUT POWER</b>	<b>24</b>
6.1 LIMIT	24
6.2 TEST PROCEDURE	24
6.3 DEVIATION FROM STANDARD	24
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
<b>7 . CONDUCTED SPURIOUS EMISSIONS</b>	<b>25</b>
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	25
7.4 TEST SETUP	25
7.5 EUT OPERATION CONDITIONS	25
7.6 TEST RESULTS	25
<b>8 . POWER SPECTRAL DENSITY</b>	<b>26</b>
8.1 LIMIT	26
8.2 TEST PROCEDURE	26
8.3 DEVIATION FROM STANDARD	26
8.4 TEST SETUP	26
8.5 EUT OPERATION CONDITIONS	26
8.6 TEST RESULTS	26
<b>9 . MEASUREMENT INSTRUMENTS LIST</b>	<b>27</b>
<b>10 . EUT TEST PHOTO</b>	<b>29</b>
<b>APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS</b>	<b>32</b>
<b>APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ</b>	<b>35</b>
<b>APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ</b>	<b>36</b>
<b>APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ</b>	<b>39</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>112</b>
<b>APPENDIX F - MAXIMUM OUTPUT POWER</b>	<b>119</b>
<b>APPENDIX G - CONDUCTED SPURIOUS EMISSIONS</b>	<b>128</b>

**Table of Contents****Page****APPENDIX H - POWER SPECTRAL DENSITY****139**

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 29, 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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China  
 BTL's Test Firm Registration Number for FCC: 476765  
 BTL's Designation Number for FCC: CN1241

### 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)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.70

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB01	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	3.76
		200 MHz~1,000 MHz	V	4.24
		200 MHz~1,000 MHz	H	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	H	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	H	3.95

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	24°C	55%	AC 120V/60Hz	Andrews Tu
Radiated Emissions-30MHz to 1000MHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	25°C	50%	AC 120V/60Hz	Vince Zong
Maximum Output Power	25°C	50%	AC 120V/60Hz	Vince Zong
Conducted Spurious Emissions	25°C	50%	AC 120V/60Hz	Vince Zong
Power Spectral Density	25°C	50%	AC 120V/60Hz	Vince Zong



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Dual Band Gigabit WiFi Router
Brand Name	Speedefy
Test Model	KX450
Series Model	K450X(X can be A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z and blank.)
Model Difference(s)	Only different in the color and appearance.
Software Version	N/A
Hardware Version	N/A
Power Source	DC voltage supplied from AC/DC adapter. Brand/Model:HEWEISHUN/8N074-A18012U
Power Rating	I/P:100-240V~ 50/60Hz 0.6A      O/P: 12V --- 1.5A
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 573.5 Mbps
Maximum Output Power _CDD	IEEE 802.11ax20: 29.87 dBm (0.9705 W)
Maximum Output Power _Beamforming	IEEE 802.11ax20: 27.94 dBm (0.6223 W)

Note:

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

## 2. Channel List:

CH01 - CH11 for 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	N/A	N/A	Dipole	N/A	5
2	N/A	N/A	Dipole	N/A	5

Note:

1. This EUT supports Beamforming and CDD, all antennas have the same gain, any transmit signals are correlated with each other, so

## 1) Beamforming:

$$\text{Directional gain} = 10\log\left[\frac{(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2}{N_{\text{ANT}}}\right] \text{dBi},$$

$$\text{that is Directional gain} = 10\log\left[\frac{(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2}{N_{\text{ANT}}}\right] \text{dBi} = 8.01;$$

So output power limit is  $30 - 8.01 + 6 = 27.99$ , the power spectral density limit is  $8 - 8.01 + 6 = 5.99$ .

## 2) CDD:

For power spectral density measurements, the Directional gain =  $G_{\text{ANT}} + \text{Array Gain}$ ,

that is Directional gain =  $5 + 10\log(2/1) = 8.01$ ; So power spectral density limit is  $8 - 8.01 + 6 = 5.99$ .

For power measurements, Directional gain =  $G_{\text{ANT MAX.}} + \text{Array Gain}$ , Array Gain =  $0\text{dB} (N_{\text{ANT}} \leq 4)$ , so the Directional gain = 5.

2. The antenna gain and beamforming gain are provided by the manufacturer.

## 4. Table for Antenna Configuration:

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

## 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 AX(HE20) Mode Channel 11

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 AX(HE20) Mode Channel 11

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 7	TX AX(HE20) Mode Channel 11

<b>Radiated emissions test- Above 1GHz</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(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

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(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 AX(HE20) Mode Channel 11 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 CDD and Beamforming are recorded in the report. The worst case is CDD and only the worst case is documented for other test items.

### 2.3 PARAMETERS OF TEST SOFTWARE

#### CDD

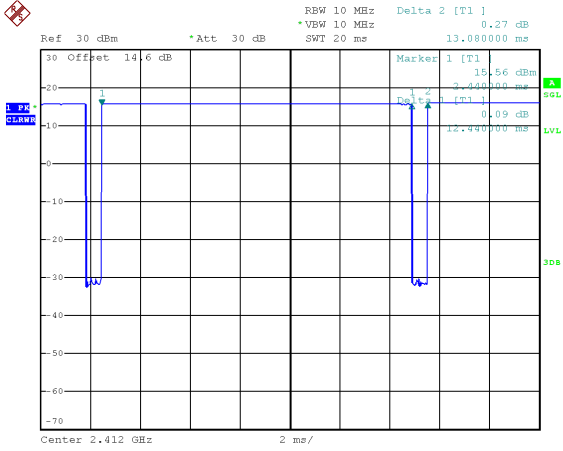
Test Software Version	accessMTool_3_1_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	75.00	82.00	82.00
IEEE 802.11g	78.00	78.00	76.00
IEEE 802.11n(HT20)	67.00	67.00	67.00
IEEE 802.11ax(HE20)	64.00	64.00	64.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	63.00	64.00	64.00
IEEE 802.11ax(HE40)	64.00	63.00	63.00

#### Beamforming

Test Software Version	accessMTool_3_1_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	67.00	67.00	67.00
IEEE 802.11ax(HE20)	64.00	64.00	64.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	63.00	64.00	64.00
IEEE 802.11ax(HE40)	64.00	63.00	63.00

## 2.4 DUTY CYCLE

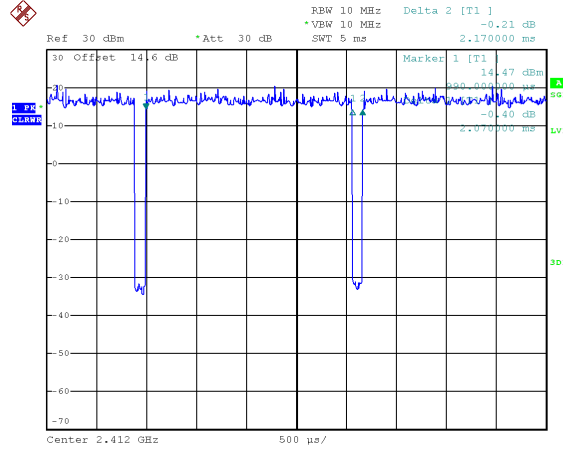
**IEEE 802.11b**



Date: 8.JUN.2021 22:06:26

Duty cycle = 12.440 ms / 13.080 ms = 95.11%  
 Duty Factor = 10 log(1/Duty cycle) = 0.22

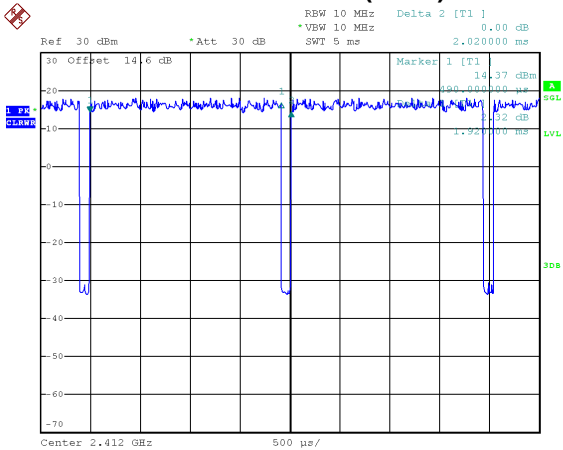
**IEEE 802.11g**



Date: 8.JUN.2021 22:07:20

Duty cycle = 2.070 ms / 2.170 ms = 95.39%  
 Duty Factor = 10 log(1/Duty cycle) = 0.20

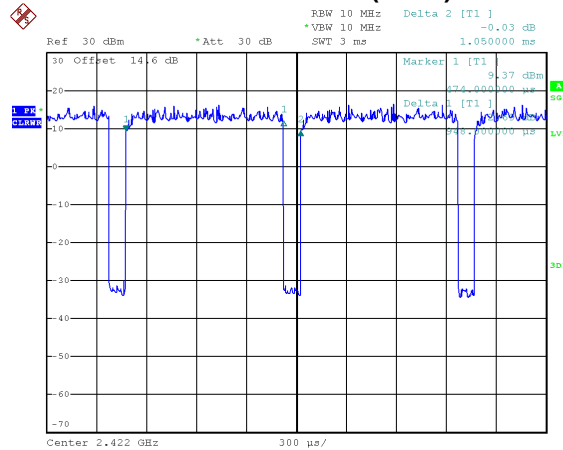
**IEEE 802.11n(HT20)**



Date: 8.JUN.2021 22:08:57

Duty cycle = 1.920 ms / 2.020 ms = 95.05%  
 Duty Factor = 10 log(1/Duty cycle) = 0.22

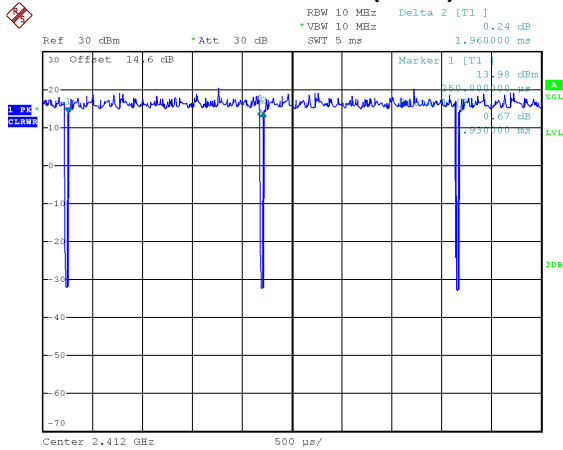
**IEEE 802.11n(HT40)**



Date: 8.JUN.2021 22:09:53

Duty cycle = 0.948 ms / 1.050 ms = 90.29%  
 Duty Factor = 10 log(1/Duty cycle) = 0.44

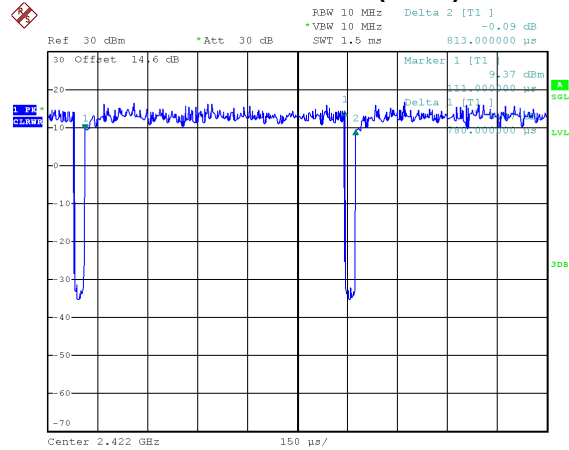
## IEEE 802.11ax(HE20)



Date: 8 JUN 2021 22:14:07

Duty cycle = 1.930 ms / 1.960 ms = 98.47%  
 Duty Factor = 10 log(1/Duty cycle) = 0.00

## IEEE 802.11ax(HE40)



Date: 8 JUN 2021 22:12:53

Duty cycle = 0.780 ms / 0.813 ms = 95.94%  
 Duty Factor = 10 log(1/Duty cycle) = 0.18

### 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 1 kHz.

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 1 kHz.

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 1 kHz.

For IEEE 802.11n(HT40):

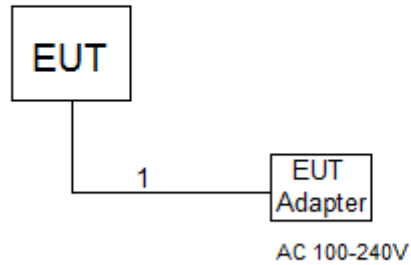
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz.

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 10Hz.

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 2 kHz.

**2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED****2.6 SUPPORT UNITS**

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	N/A	N/A	1m



### 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.

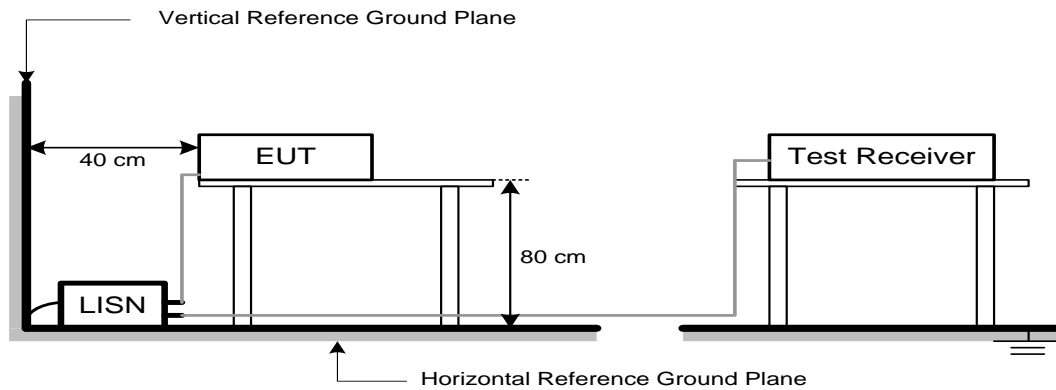
The following table is the setting of the receiver:

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

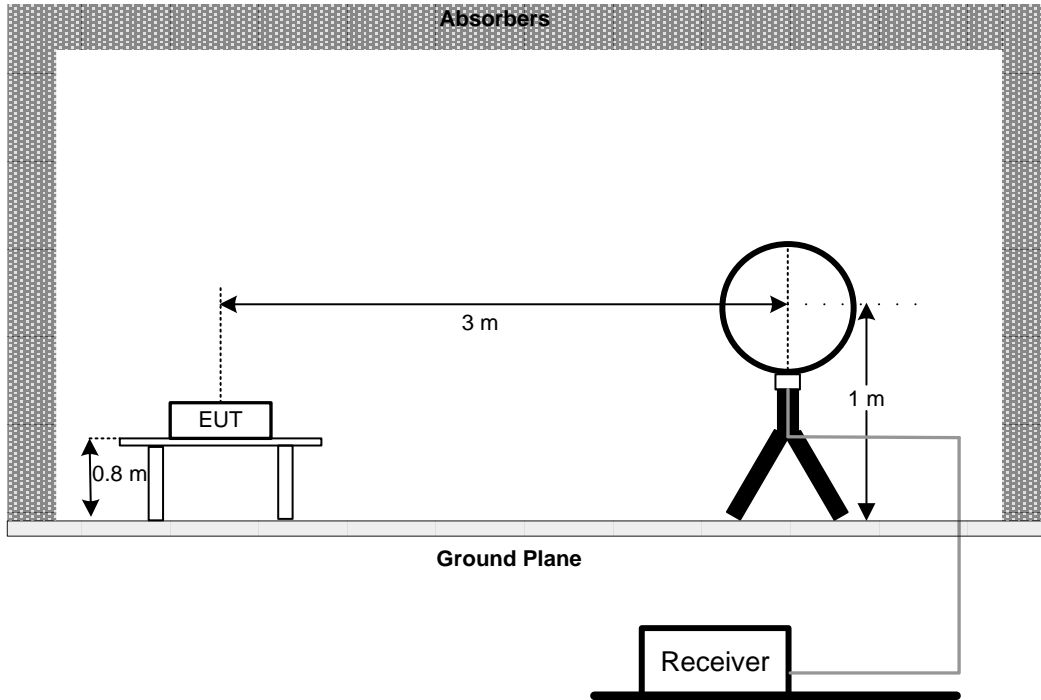
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

**4.3 DEVIATION FROM TEST STANDARD**

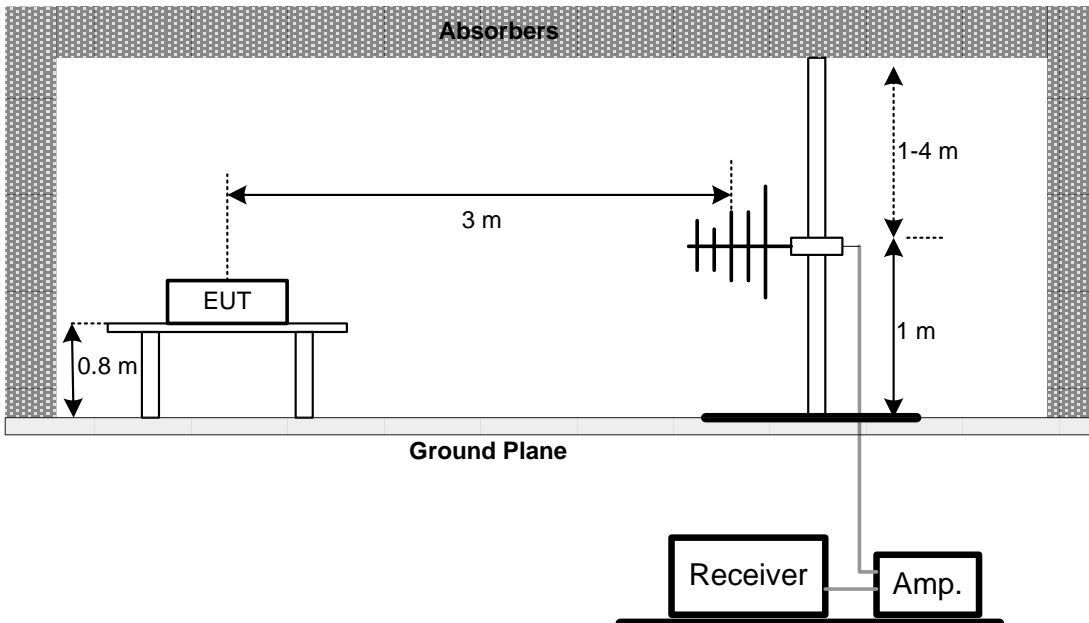
No deviation.

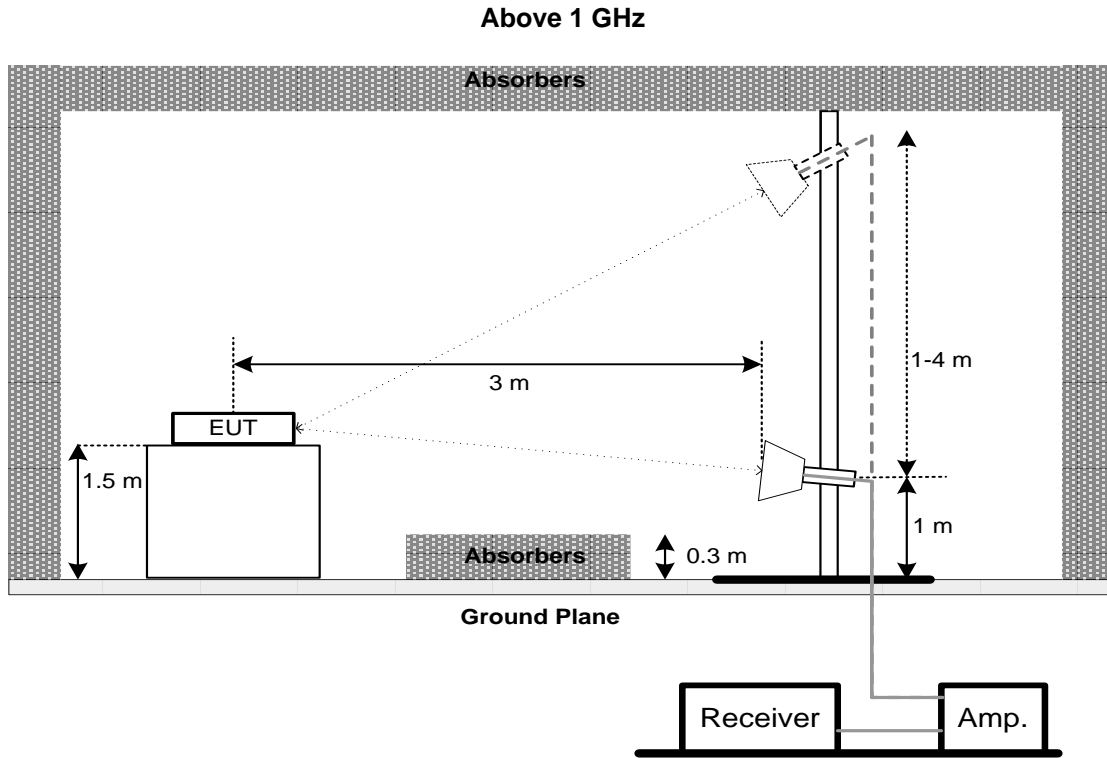
**4.4 TEST SETUP**

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

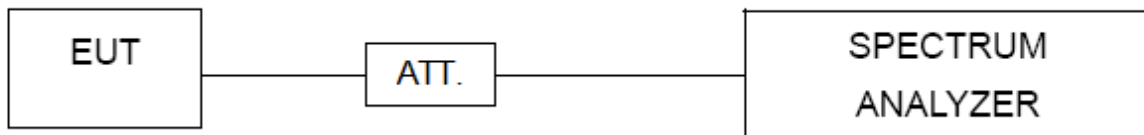
For 99% Emission Bandwidth:

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

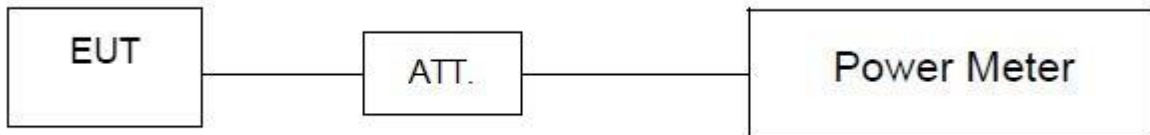
### 6.2 TEST PROCEDURE

- 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 (for peak power) 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

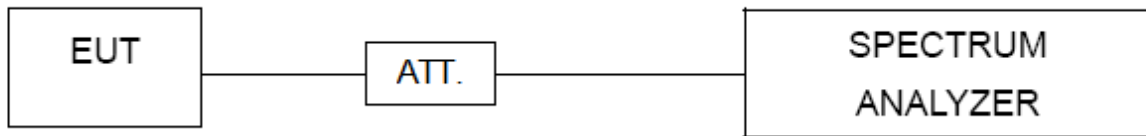
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Apr. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 20, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	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	EMCI	EMCI LPA600	275	Apr. 15, 2022
2	Cable	N/A	EMCRG400-BM-N M-10000	170628	Apr. 11, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	9120D-1786	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 10, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 20, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 27, 2022
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 20, 2022
11	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 15, 2022
12	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 15, 2022

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

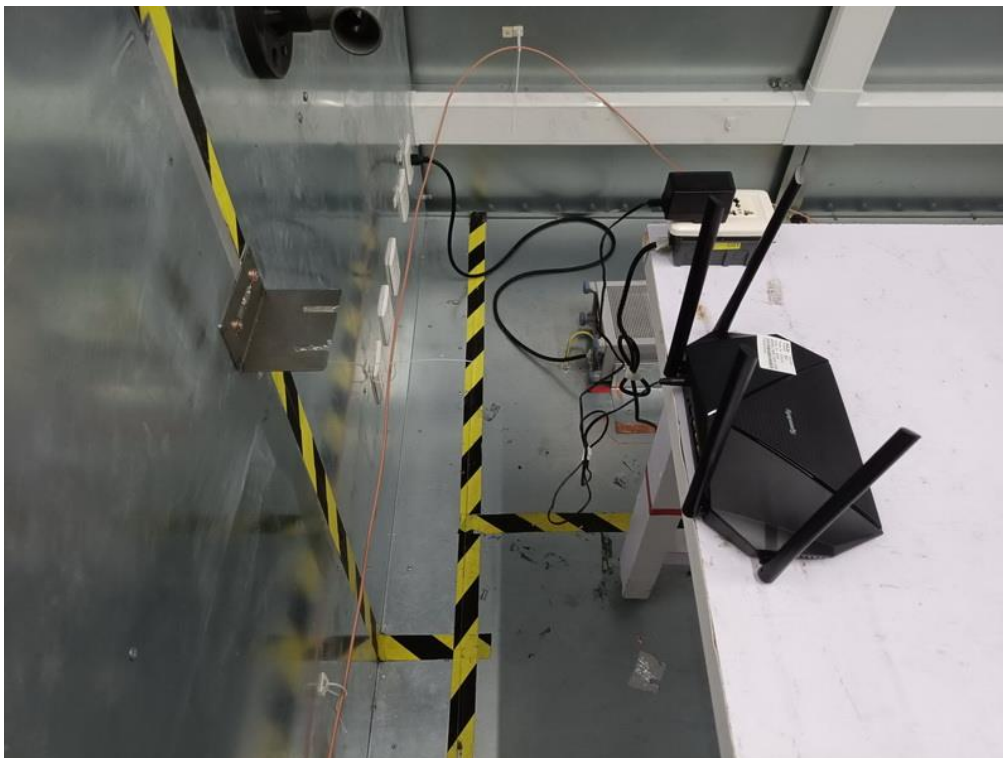
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

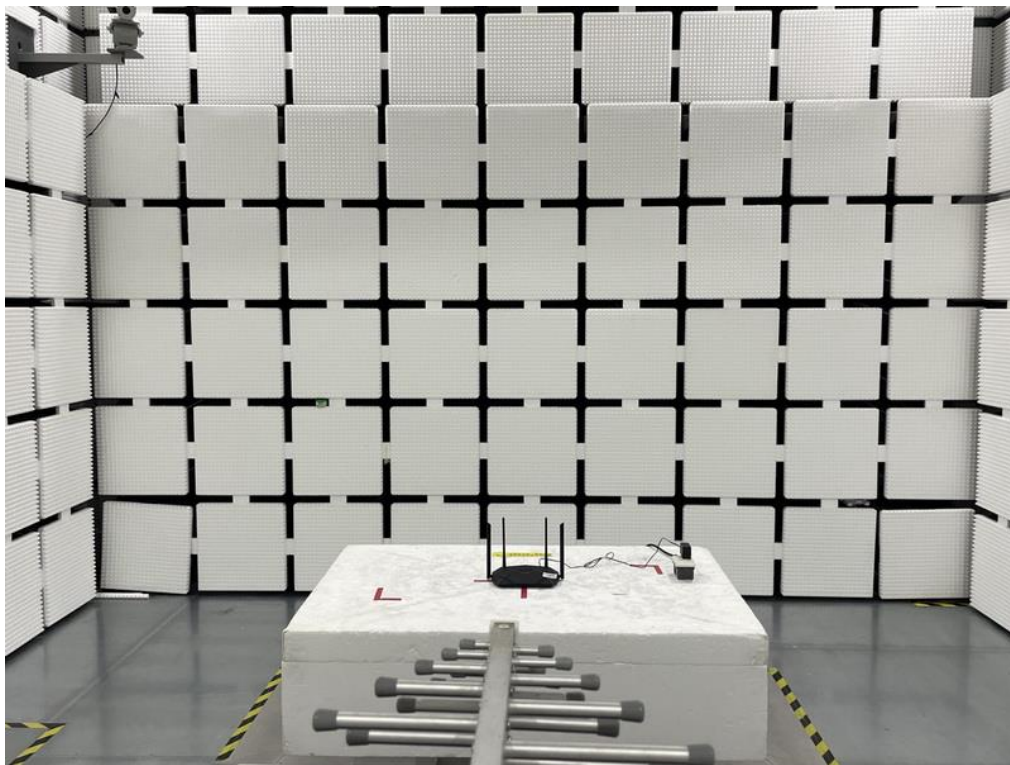
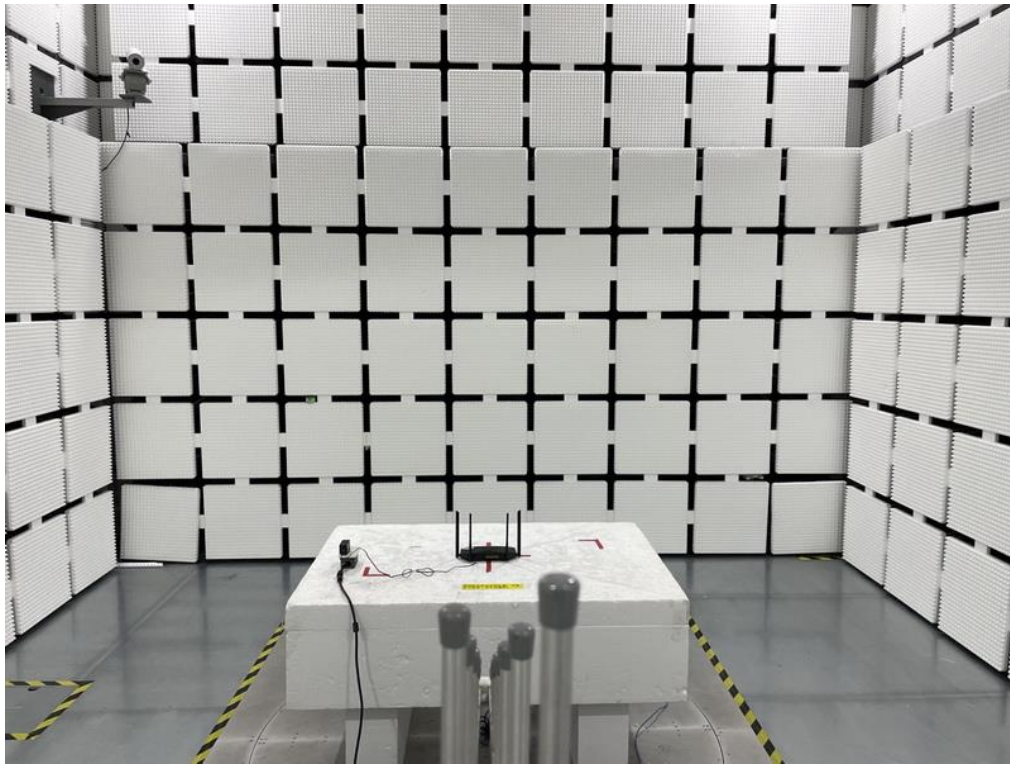
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

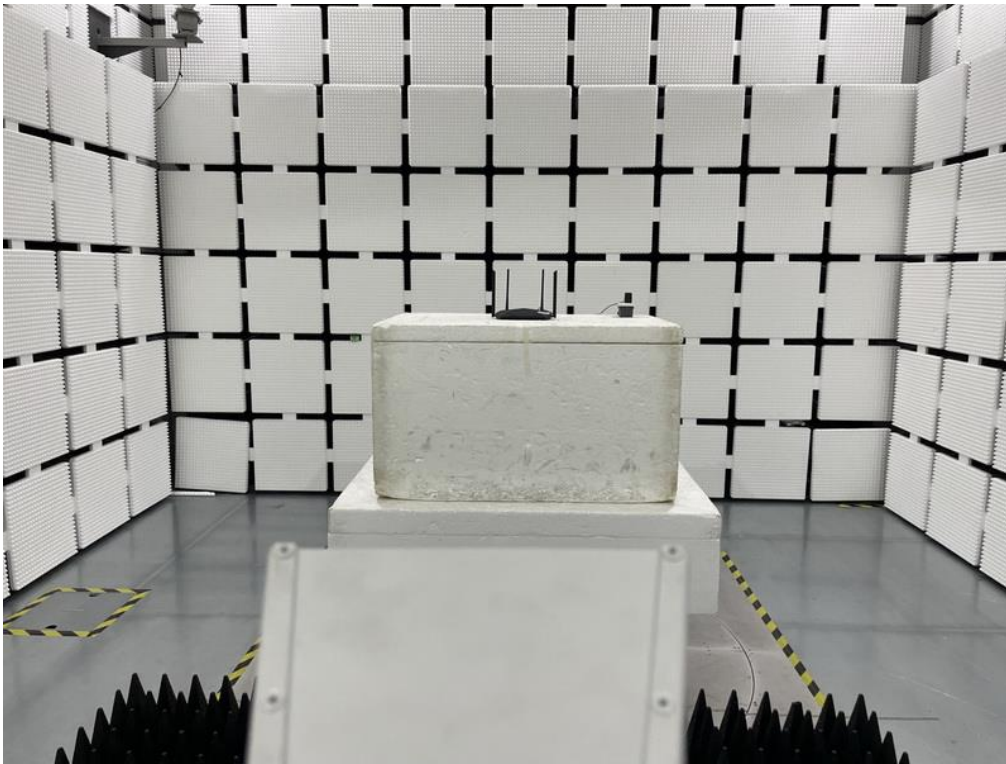
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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



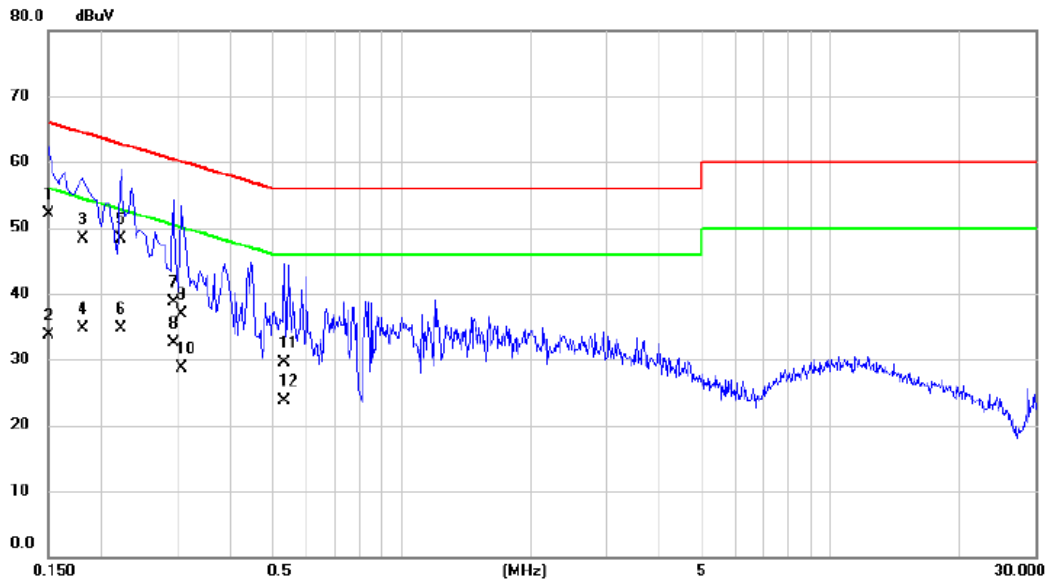
**Radiated Emissions Test Photos****30 MHz to 1 GHz**

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

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



Test Mode	TX AX(HE20) Mode Channel 11	Phase	Line
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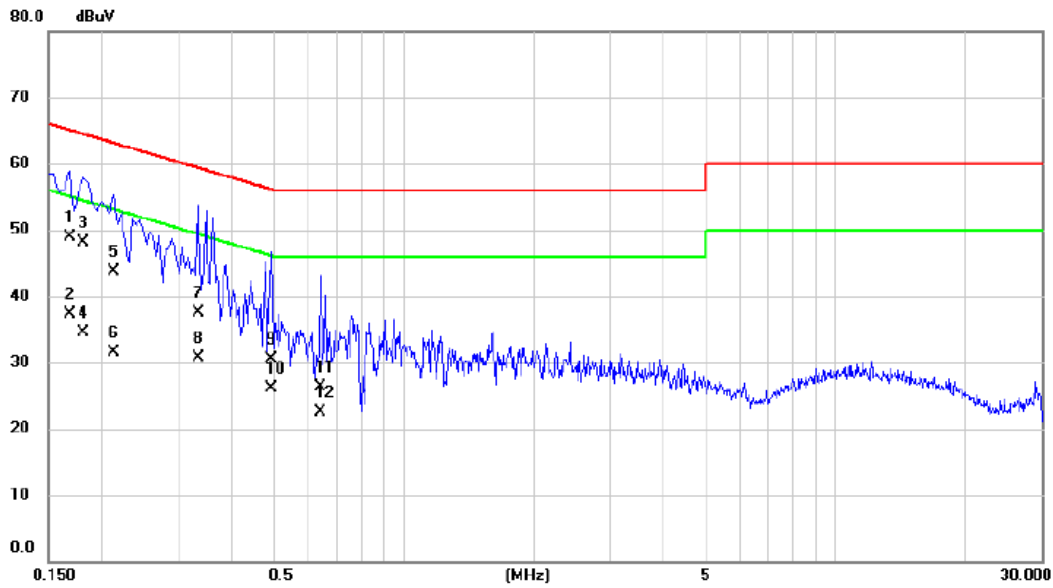


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	42.30	9.71	52.01	66.00	-13.99	QP	
2	0.1500	24.00	9.71	33.71	56.00	-22.29	AVG	
3	0.1815	38.50	9.73	48.23	64.42	-16.19	QP	
4	0.1815	24.90	9.73	34.63	54.42	-19.79	AVG	
5	0.2220	38.50	9.74	48.24	62.74	-14.50	QP	
6	0.2220	24.90	9.74	34.64	52.74	-18.10	AVG	
7	0.2940	29.00	9.76	38.76	60.41	-21.65	QP	
8	0.2940	22.80	9.76	32.56	50.41	-17.85	AVG	
9	0.3075	27.20	9.76	36.96	60.04	-23.08	QP	
10	0.3075	18.90	9.76	28.66	50.04	-21.38	AVG	
11	0.5325	19.80	9.80	29.60	56.00	-26.40	QP	
12	0.5325	13.90	9.80	23.70	46.00	-22.30	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode Channel 11	Phase	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	39.30	9.70	49.00	65.06	-16.06	QP	
2		0.1680	27.60	9.70	37.30	55.06	-17.76	AVG	
3		0.1815	38.50	9.70	48.20	64.42	-16.22	QP	
4		0.1815	24.90	9.70	34.60	54.42	-19.82	AVG	
5		0.2130	34.00	9.71	43.71	63.09	-19.38	QP	
6		0.2130	21.70	9.71	31.41	53.09	-21.68	AVG	
7		0.3345	27.80	9.74	37.54	59.34	-21.80	QP	
8		0.3345	21.00	9.74	30.74	49.34	-18.60	AVG	
9		0.4920	20.80	9.77	30.57	56.13	-25.56	QP	
10		0.4920	16.30	9.77	26.07	46.13	-20.06	AVG	
11		0.6405	16.50	9.80	26.30	56.00	-29.70	QP	
12		0.6405	12.80	9.80	22.60	46.00	-23.40	AVG	

**REMARKS:**

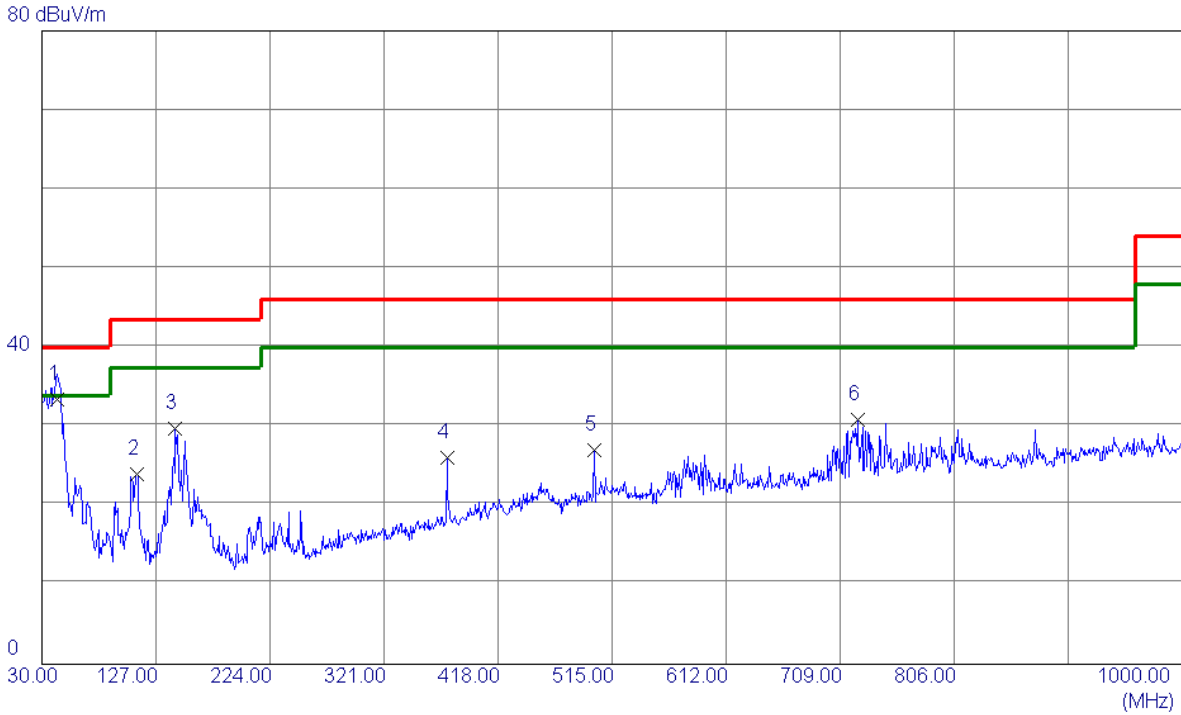
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

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

Test Mode	TX AX(HE20) Mode Channel 11	Polarization	Vertical
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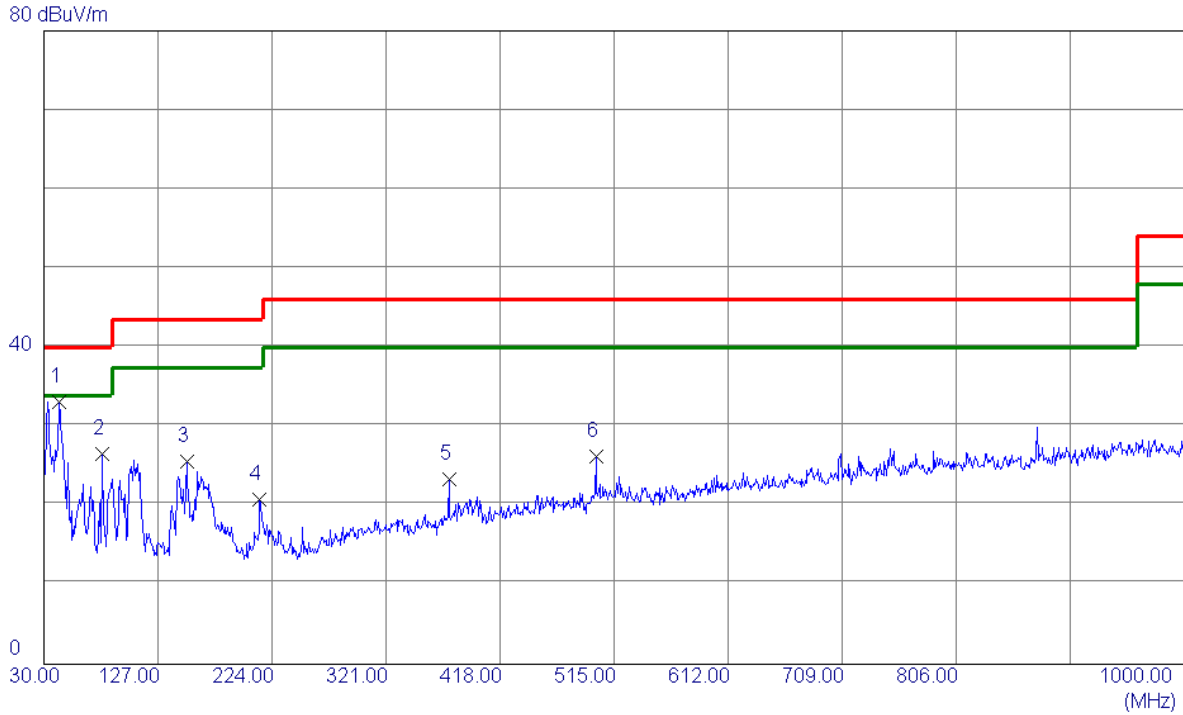


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	50.53	-17.12	33.41	40.00	-6.59	QP	
2	110.5100	43.70	-19.66	24.04	43.50	-19.46	Peak	
3	143.4900	46.39	-16.61	29.78	43.50	-13.72	Peak	
4	374.8350	39.91	-13.90	26.01	46.00	-19.99	Peak	
5	499.9650	38.25	-11.21	27.04	46.00	-18.96	Peak	
6	724.0349	38.52	-7.61	30.91	46.00	-15.09	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode Channel 11	Polarization	Horizontal
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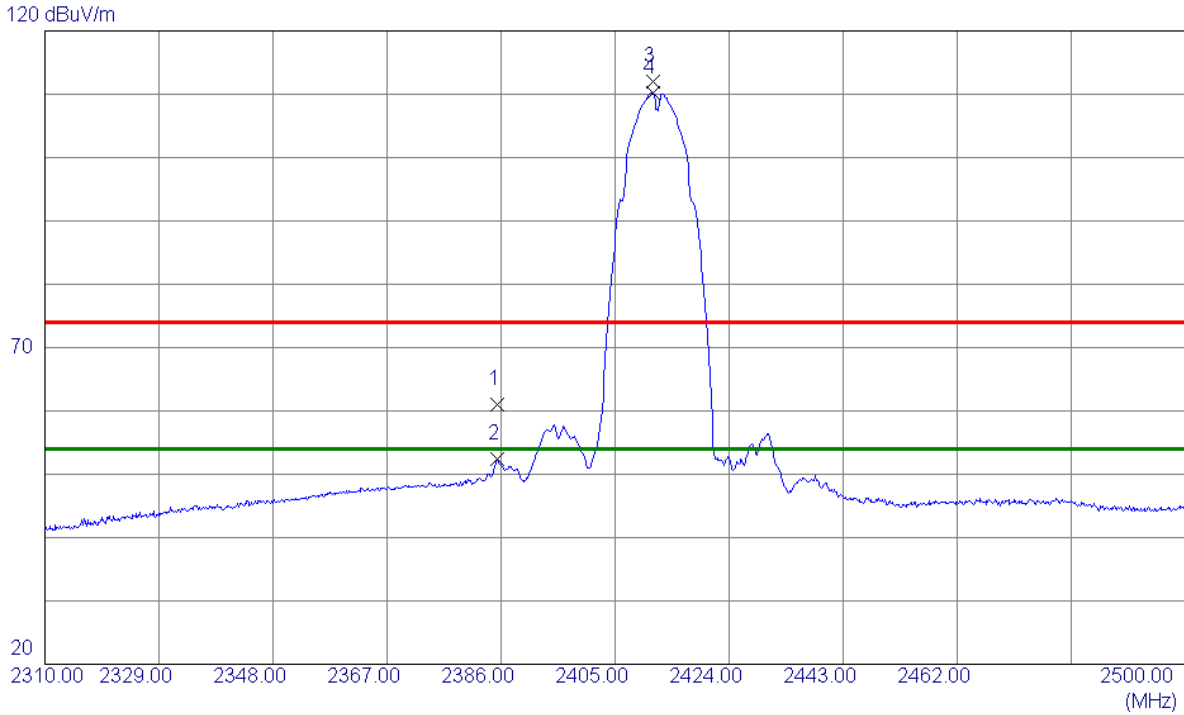
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	43.0950	50.16	-17.07	33.09	40.00	-6.91	Peak	
2	79.9550	47.51	-20.91	26.60	40.00	-13.40	Peak	
3	151.7350	41.90	-16.23	25.67	43.50	-17.83	Peak	
4	213.3300	40.22	-19.36	20.86	43.50	-22.64	Peak	
5	374.8350	37.28	-13.90	23.38	46.00	-22.62	Peak	
6	499.9650	37.38	-11.21	26.17	46.00	-19.83	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	2385.4300	29.32	31.75	61.07	74.00	-12.93	Peak	
2	2385.4300	20.74	31.75	52.49	54.00	-1.51	AVG	
3	2411.2700	80.36	31.72	112.08	74.00	38.08	Peak	NO limit
4 *	2411.2700	78.52	31.72	110.24	54.00	56.24	AVG	NO limit

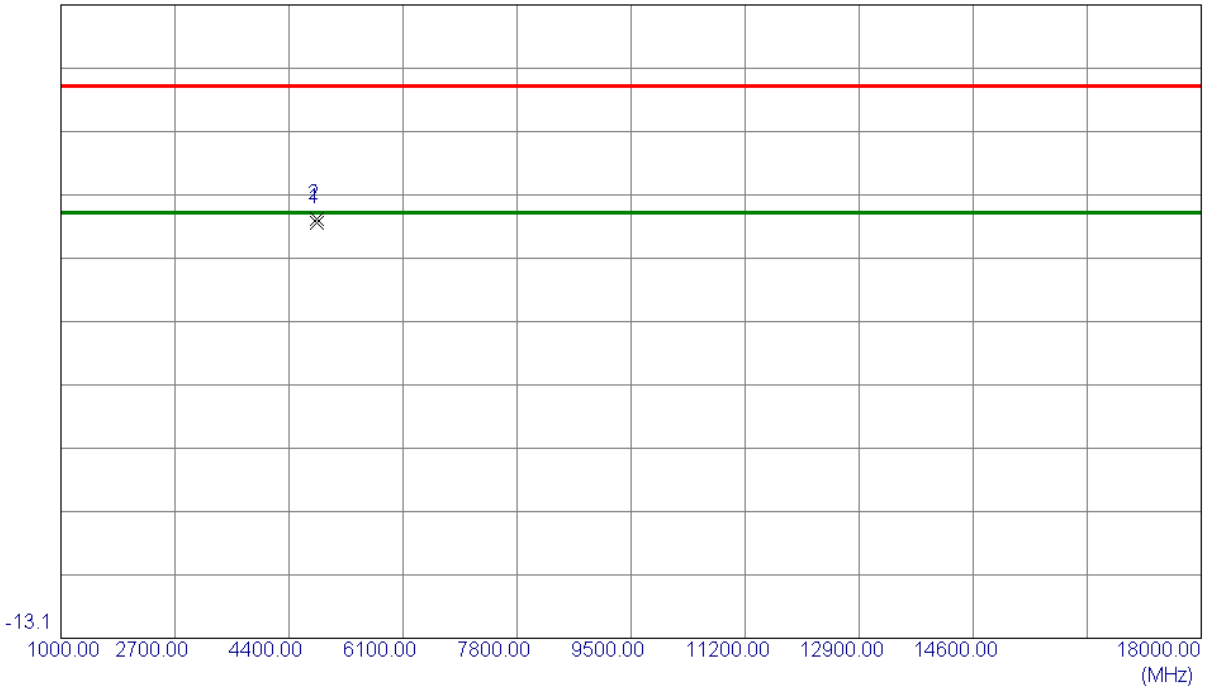
**REMARKS:**

- (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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86.9 dBuV/m

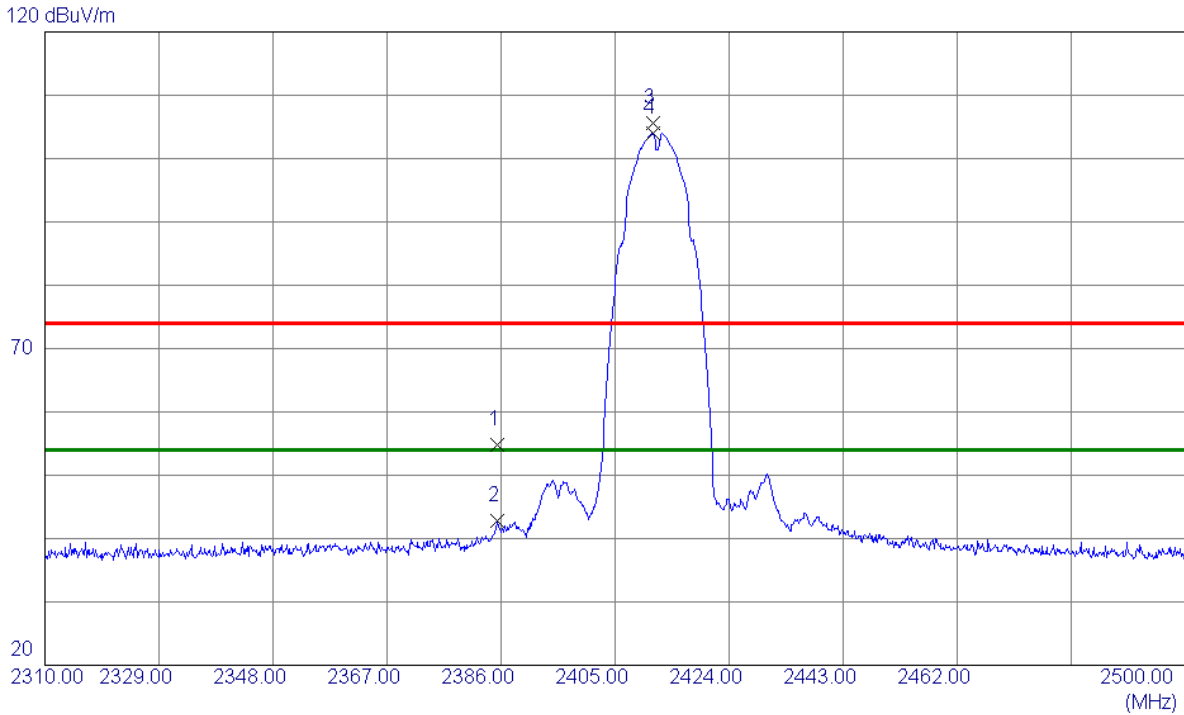


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9680	62.40	-9.85	52.55	54.00	-1.45	AVG	
2	4824.1500	63.03	-9.85	53.18	74.00	-20.82	Peak	

**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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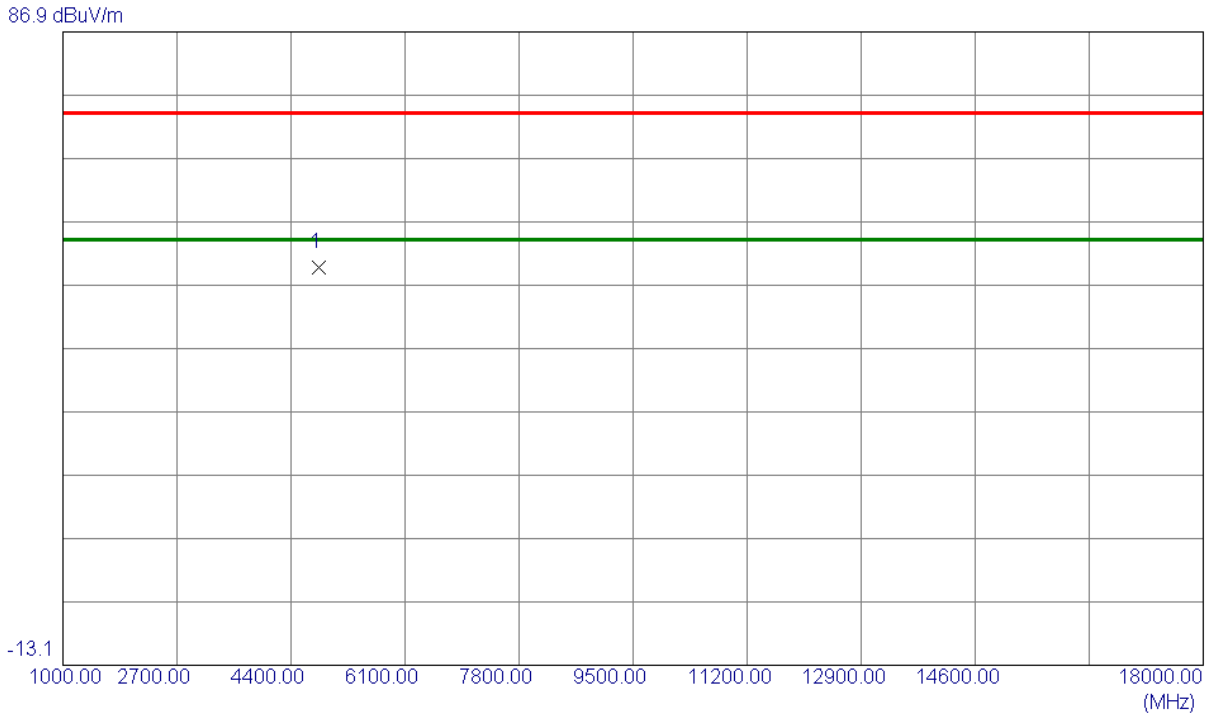


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.3350	23.11	31.75	54.86	74.00	-19.14	Peak	
2	2385.3350	11.03	31.75	42.78	54.00	-11.22	AVG	
3	2411.2700	73.82	31.72	105.54	74.00	31.54	Peak	NO limit
4 *	2411.2700	72.30	31.72	104.02	54.00	50.02	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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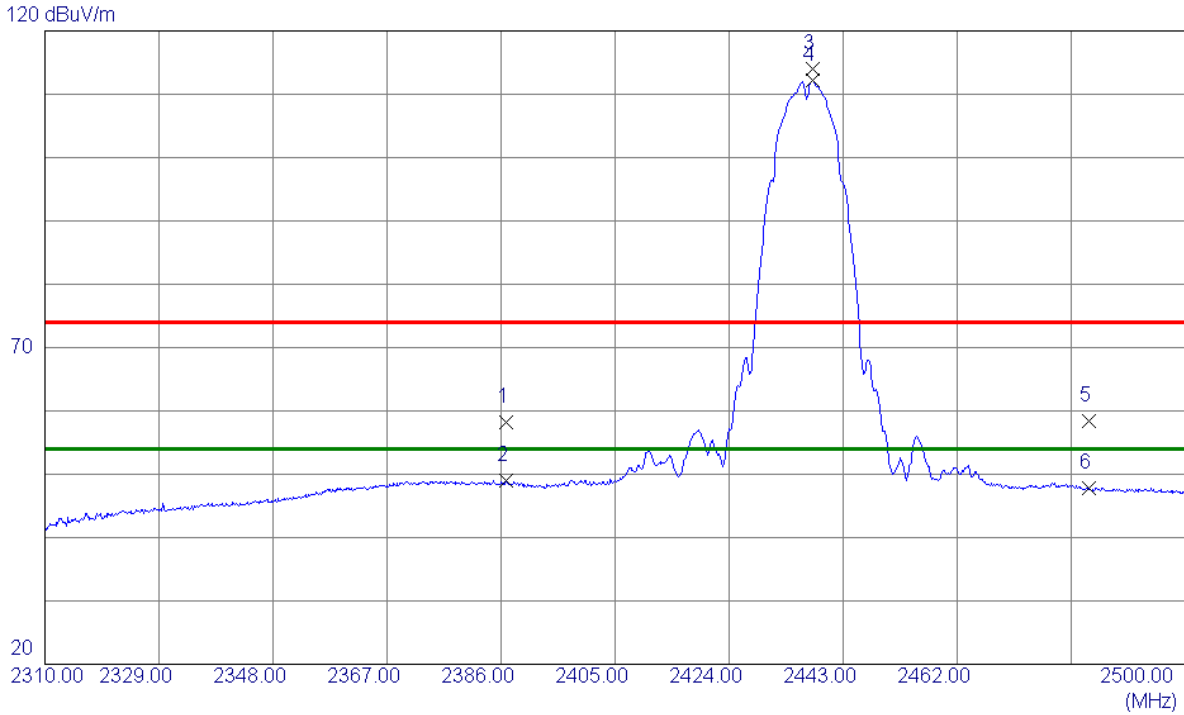


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.1500	59.63	-9.85	49.78	74.00	-24.22	Peak	

**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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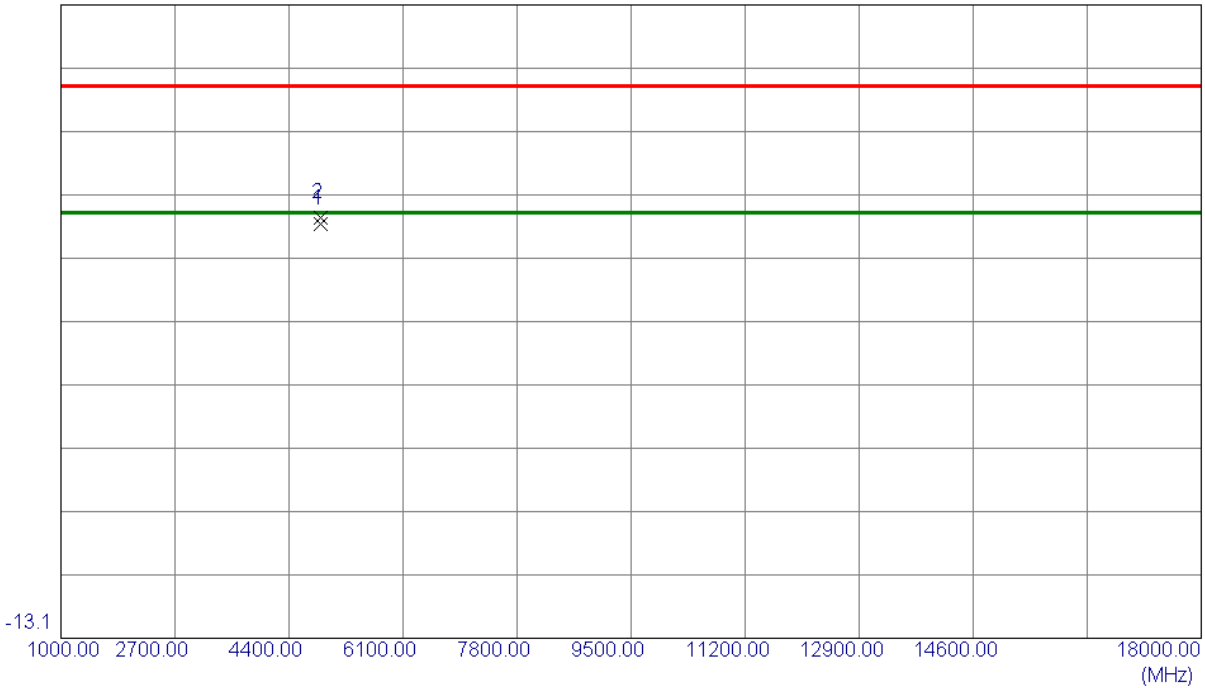
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.8550	26.36	31.75	58.11	74.00	-15.89	Peak	
2	2386.8550	17.24	31.75	48.99	54.00	-5.01	AVG	
3	2437.8700	82.22	31.72	113.94	74.00	39.94	Peak	NO limit
4 *	2437.8700	80.43	31.72	112.15	54.00	58.15	AVG	NO limit
5	2484.0400	26.68	31.71	58.39	74.00	-15.61	Peak	
6	2484.0400	16.17	31.71	47.88	54.00	-6.12	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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86.9 dBuV/m

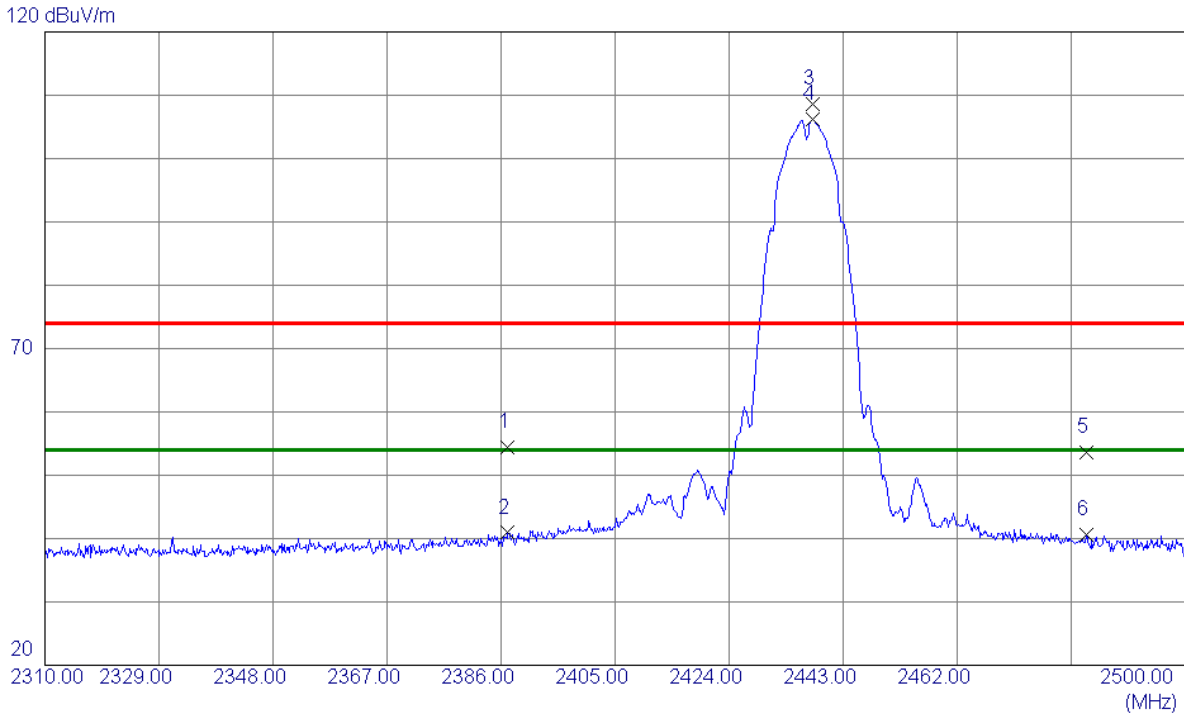


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9920	62.05	-9.77	52.28	54.00	-1.72	AVG	
2	4874.3000	63.12	-9.77	53.35	74.00	-20.65	Peak	

**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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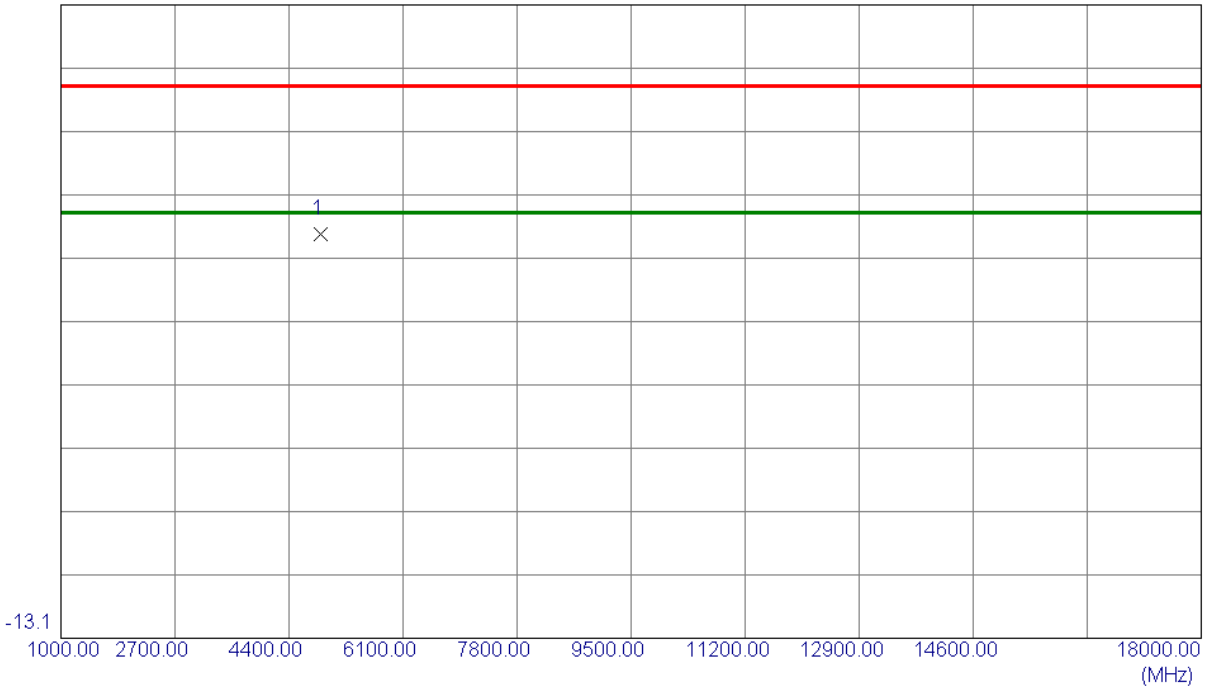
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.1399	22.67	31.74	54.41	74.00	-19.59	Peak	
2	2387.1399	9.16	31.74	40.90	54.00	-13.10	AVG	
3	2437.8700	76.84	31.72	108.56	74.00	34.56	Peak	NO limit
4 *	2437.8700	74.42	31.72	106.14	54.00	52.14	AVG	NO limit
5	2483.5000	21.80	31.71	53.51	74.00	-20.49	Peak	
6	2483.5000	8.98	31.71	40.69	54.00	-13.31	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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86.9 dBuV/m

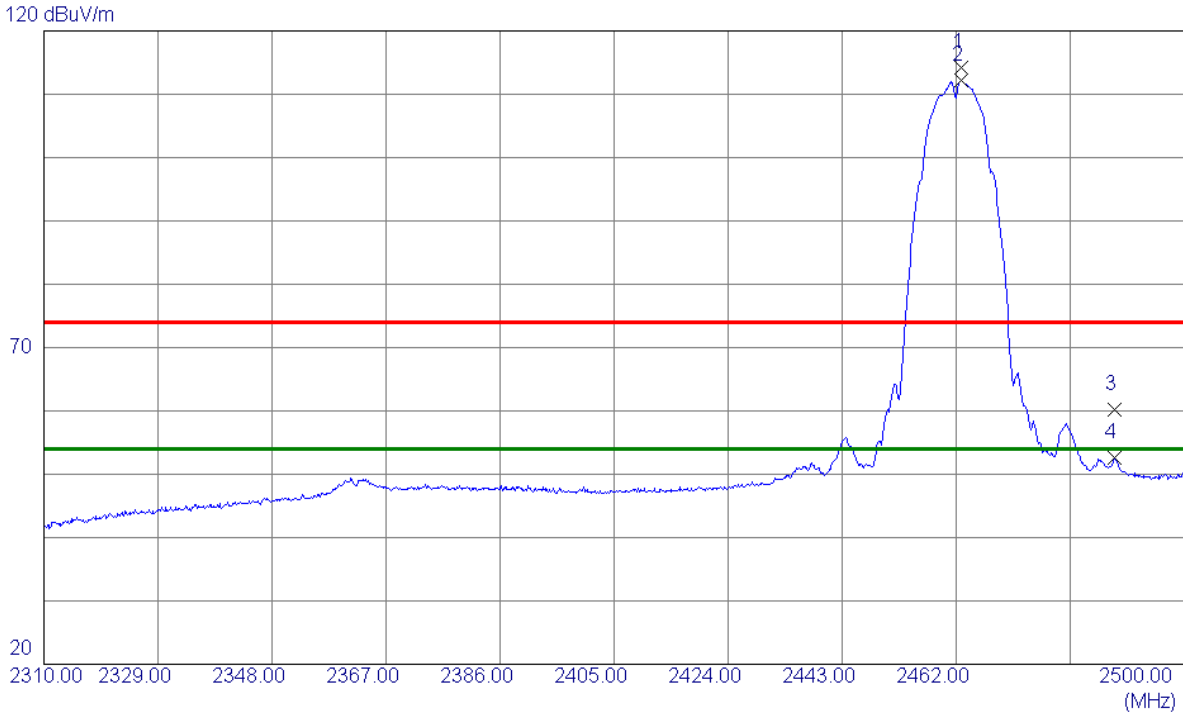


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.3000	60.41	-9.77	50.64	74.00	-23.36	Peak	

**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	2462.8550	82.43	31.71	114.14	74.00	40.14	Peak	NO limit
2 *	2462.8550	80.58	31.71	112.29	54.00	58.29	AVG	NO limit
3	2488.4100	28.43	31.71	60.14	74.00	-13.86	Peak	
4	2488.4100	20.81	31.71	52.52	54.00	-1.48	AVG	

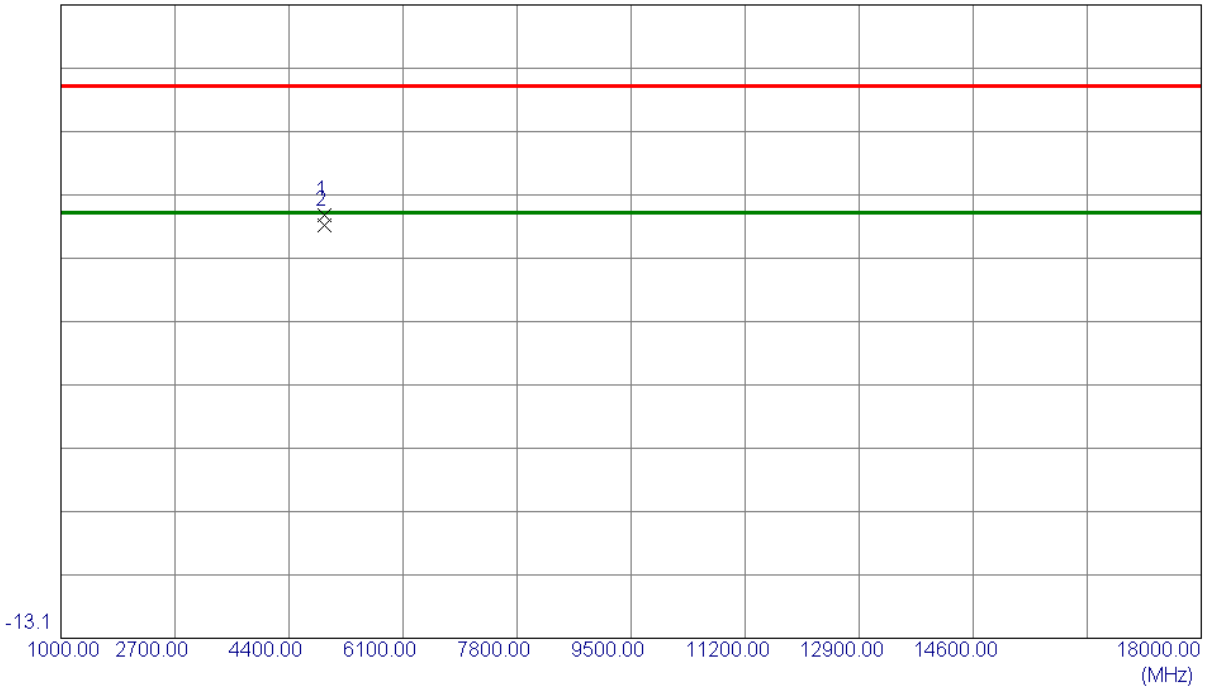
**REMARKS:**

- (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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86.9 dBuV/m

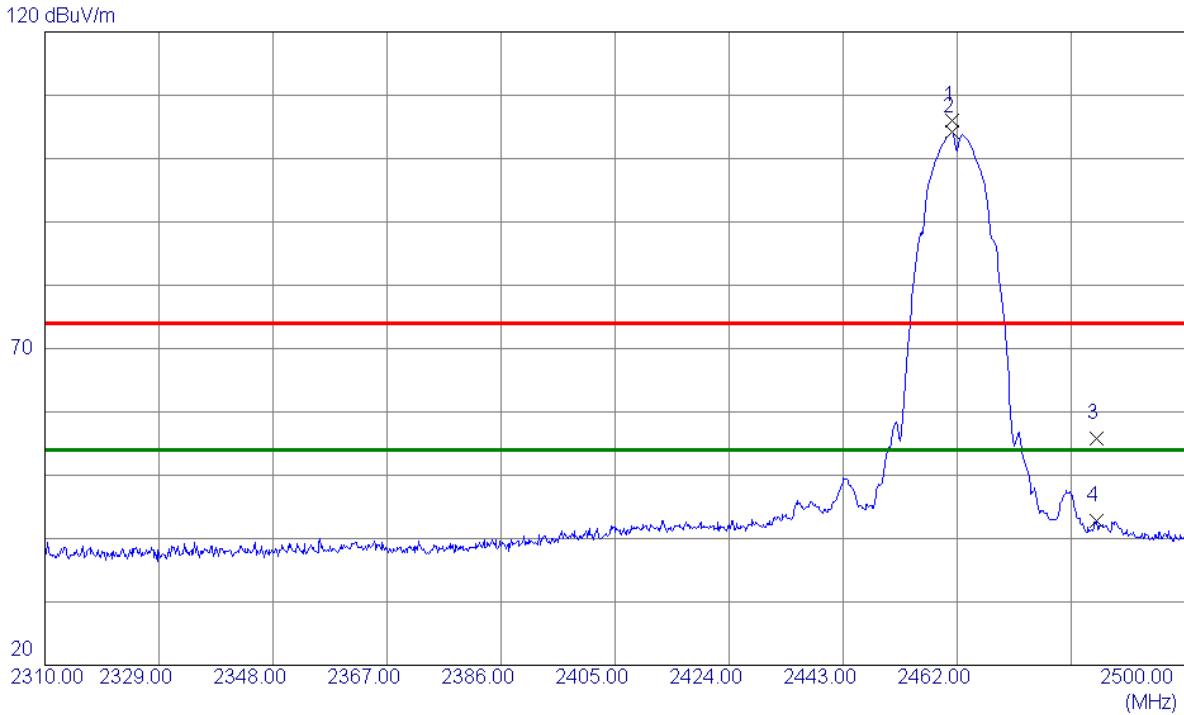


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.6000	63.28	-9.64	53.64	74.00	-20.36	Peak	
2 *	4923.9850	61.67	-9.64	52.03	54.00	-1.97	AVG	

**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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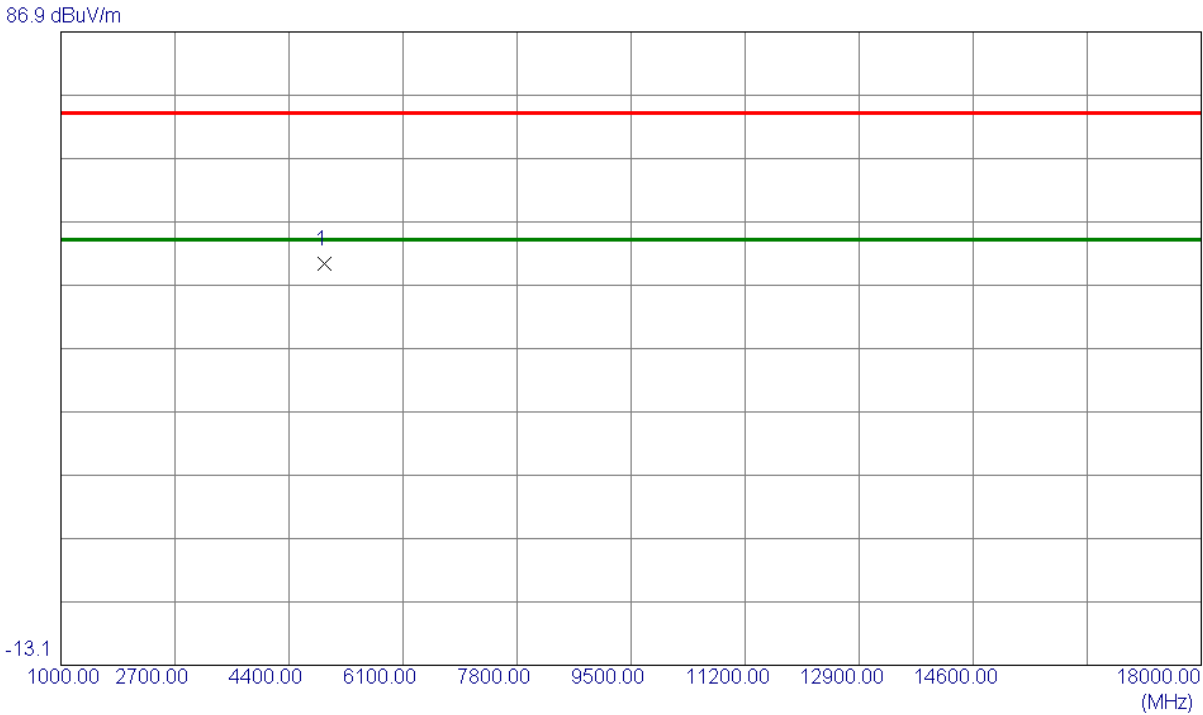


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2400	74.30	31.71	106.01	74.00	32.01	Peak	NO limit
2 *	2461.2400	72.49	31.71	104.20	54.00	50.20	AVG	NO limit
3	2485.2750	24.16	31.71	55.87	74.00	-18.13	Peak	
4	2485.2750	11.18	31.71	42.89	54.00	-11.11	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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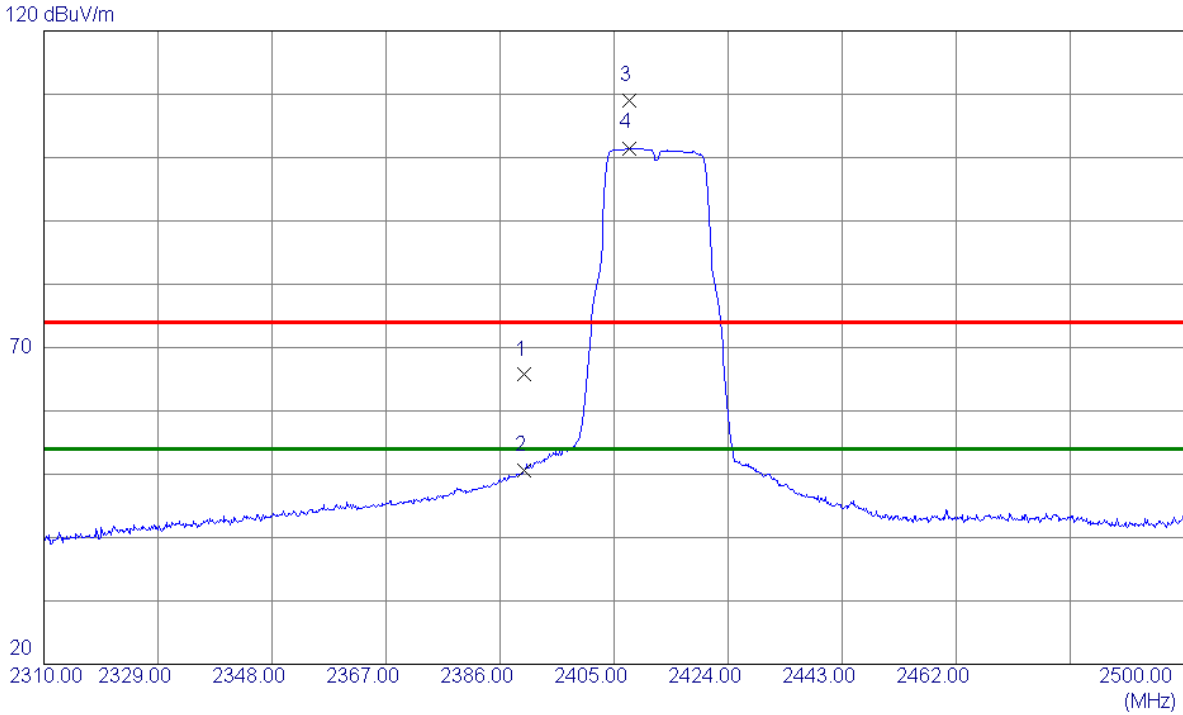


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	59.84	-9.64	50.20	74.00	-23.80	Peak	

**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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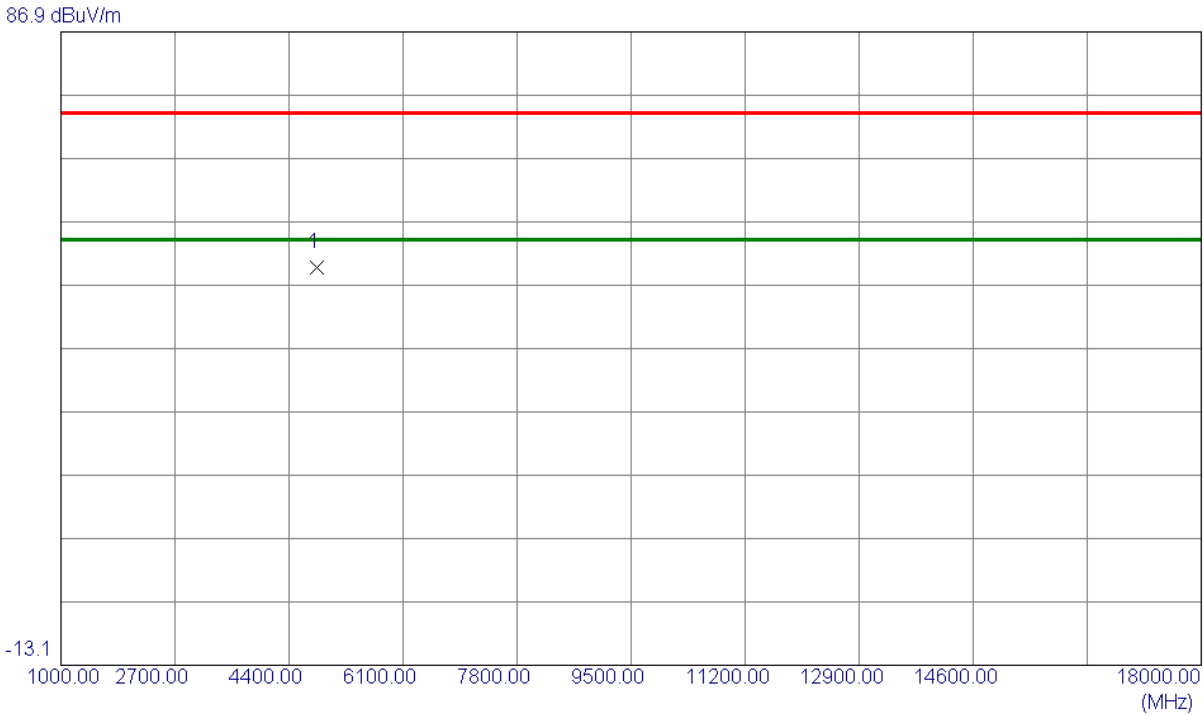


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.96	31.74	65.70	74.00	-8.30	Peak	
2	2390.0000	18.79	31.74	50.53	54.00	-3.47	AVG	
3	2407.4700	77.34	31.72	109.06	74.00	35.06	Peak	NO limit
4 *	2407.4700	69.78	31.72	101.50	54.00	47.50	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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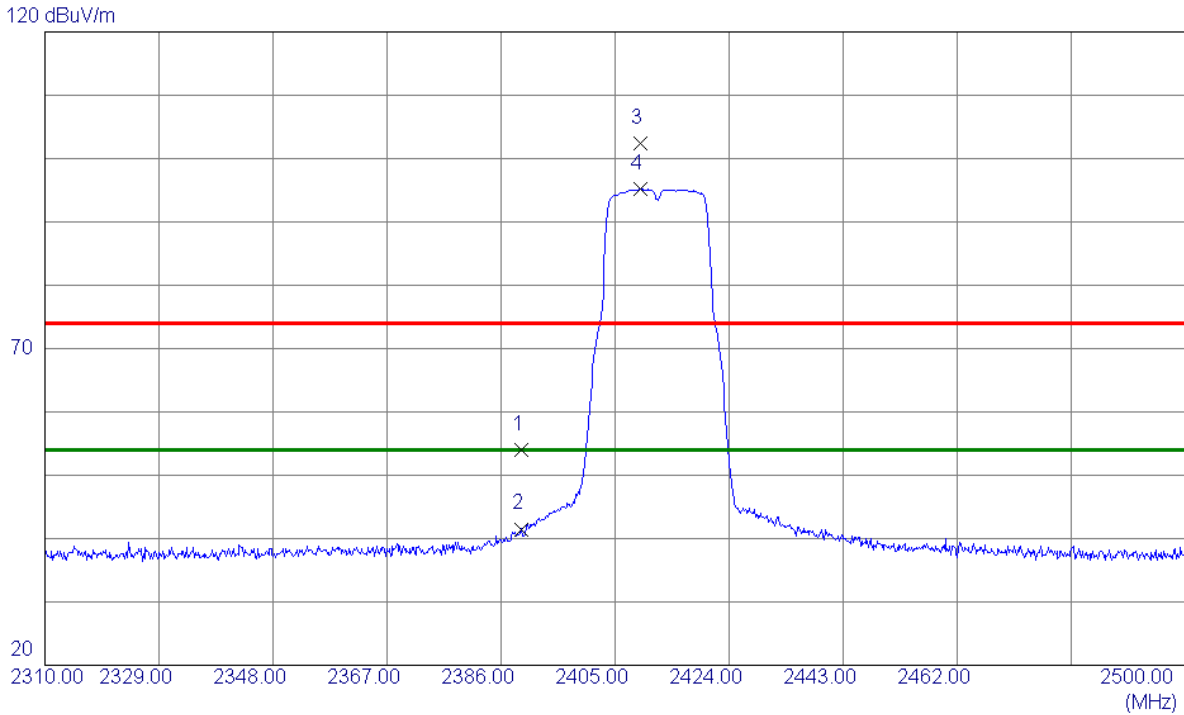


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.4500	59.52	-9.85	49.67	74.00	-24.33	Peak	

**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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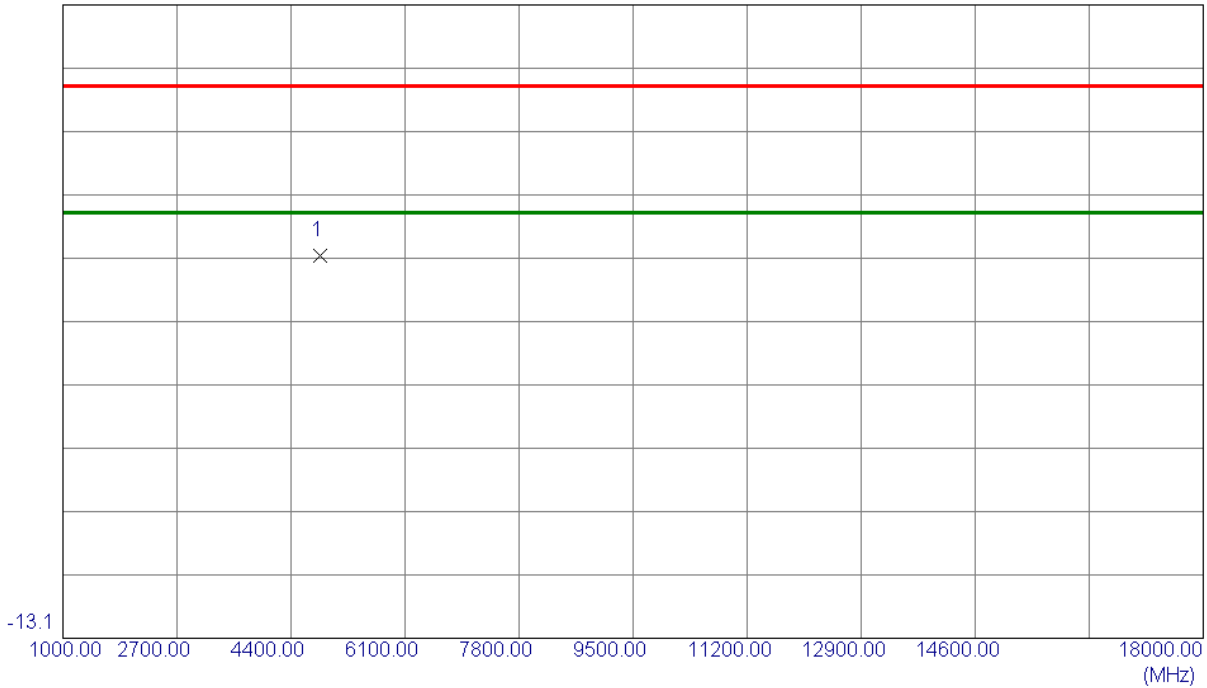
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.4200	22.25	31.74	53.99	74.00	-20.01	Peak	
2	2389.4200	9.76	31.74	41.50	54.00	-12.50	AVG	
3	2409.1800	70.69	31.72	102.41	74.00	28.41	Peak	NO limit
4 *	2409.1800	63.47	31.72	95.19	54.00	41.19	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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86.9 dBuV/m

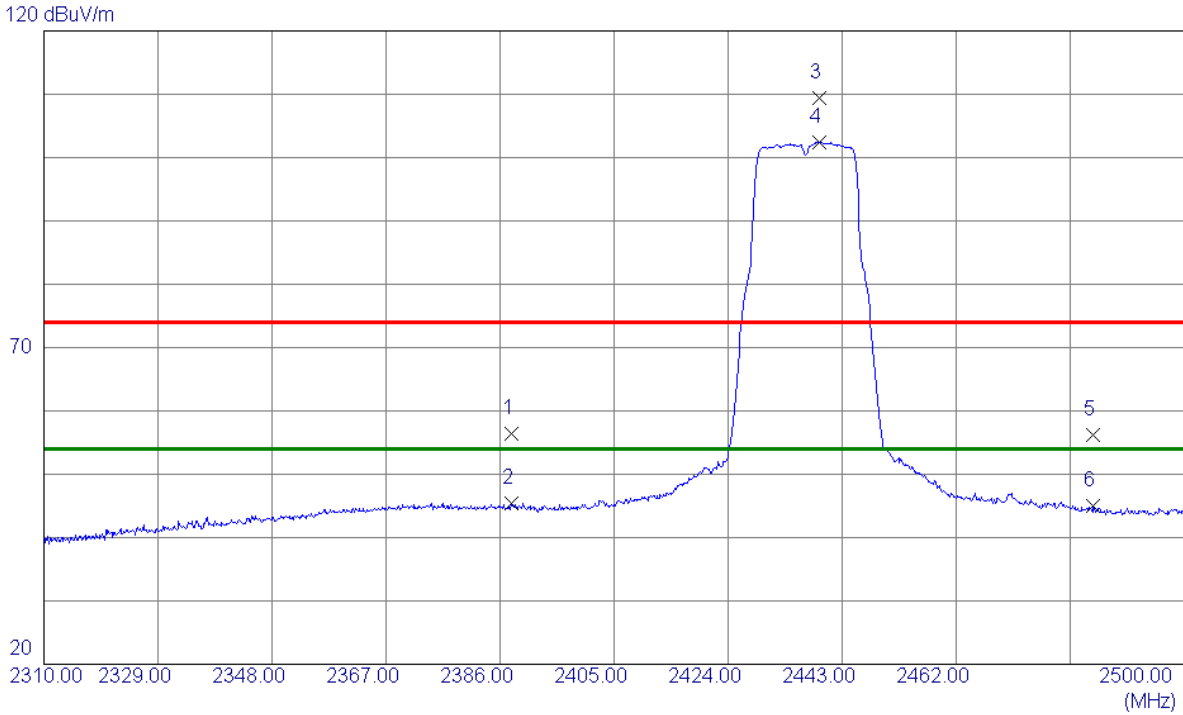


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4827.5500	57.22	-9.84	47.38	74.00	-26.62	Peak	

**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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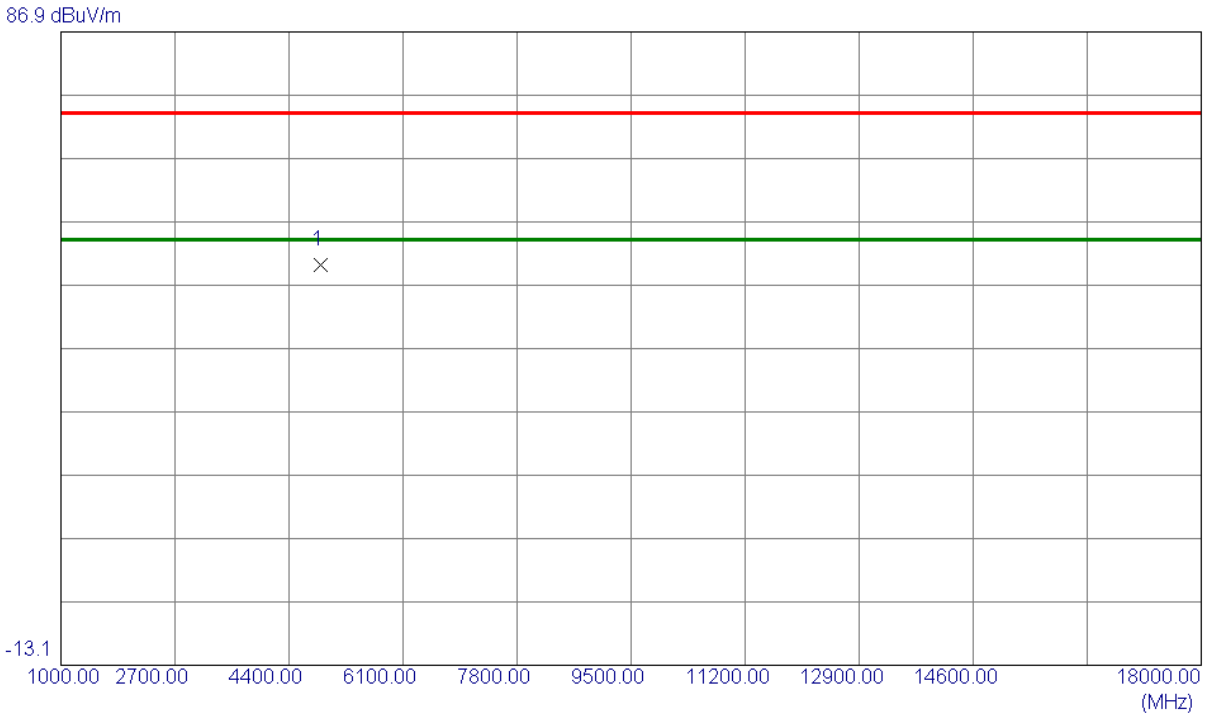
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.8050	24.61	31.74	56.35	74.00	-17.65	Peak	
2	2387.8050	13.65	31.74	45.39	54.00	-8.61	AVG	
3	2439.1050	77.70	31.72	109.42	74.00	35.42	Peak	NO limit
4 *	2439.1050	70.70	31.72	102.42	54.00	48.42	AVG	NO limit
5	2484.8000	24.40	31.71	56.11	74.00	-17.89	Peak	
6	2484.8000	13.22	31.71	44.93	54.00	-9.07	AVG	

**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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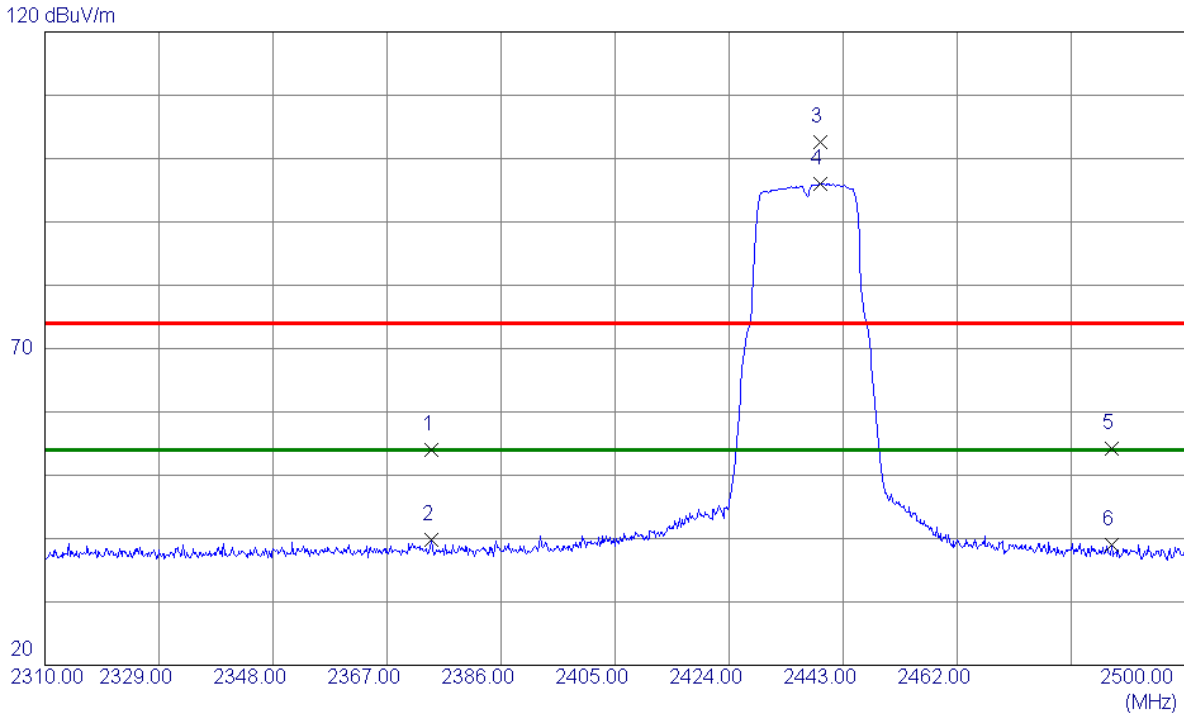


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4867.5000	59.95	-9.78	50.17	74.00	-23.83	Peak	

**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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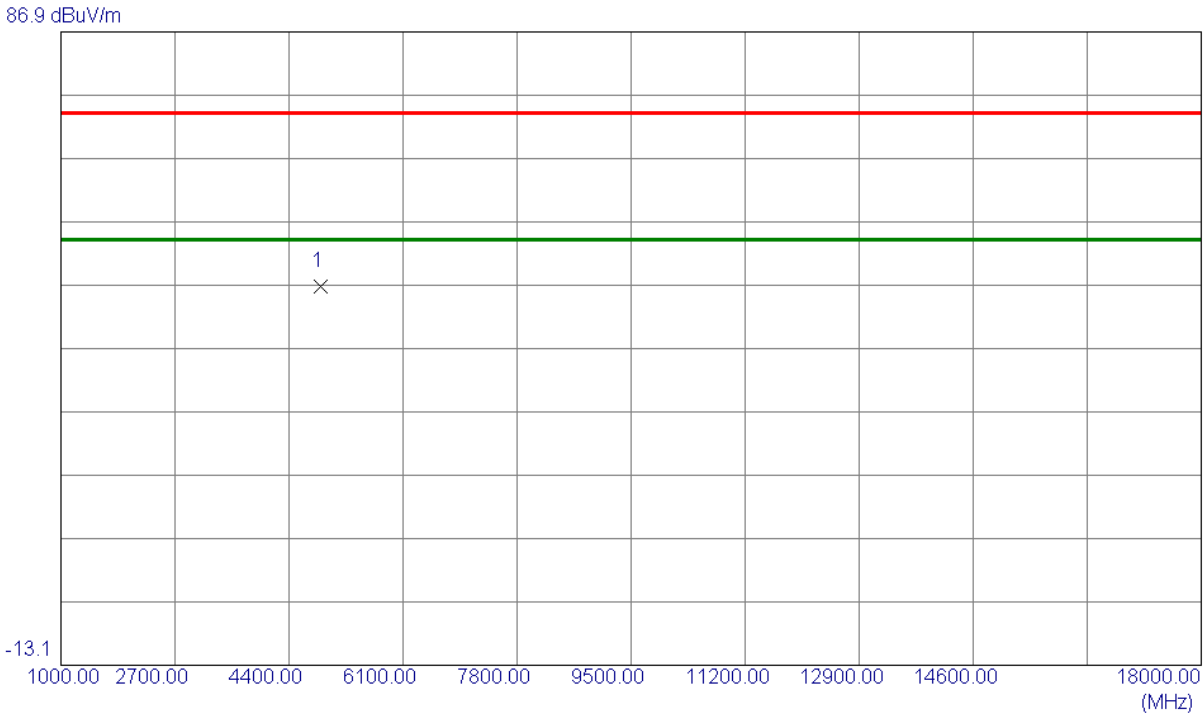


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2374.4100	22.23	31.77	54.00	74.00	-20.00	Peak	
2	2374.4100	7.95	31.77	39.72	54.00	-14.28	AVG	
3	2439.2950	70.85	31.72	102.57	74.00	28.57	Peak	NO limit
4 *	2439.2950	64.27	31.72	95.99	54.00	41.99	AVG	NO limit
5	2487.6500	22.40	31.71	54.11	74.00	-19.89	Peak	
6	2487.6500	7.26	31.71	38.97	54.00	-15.03	AVG	

**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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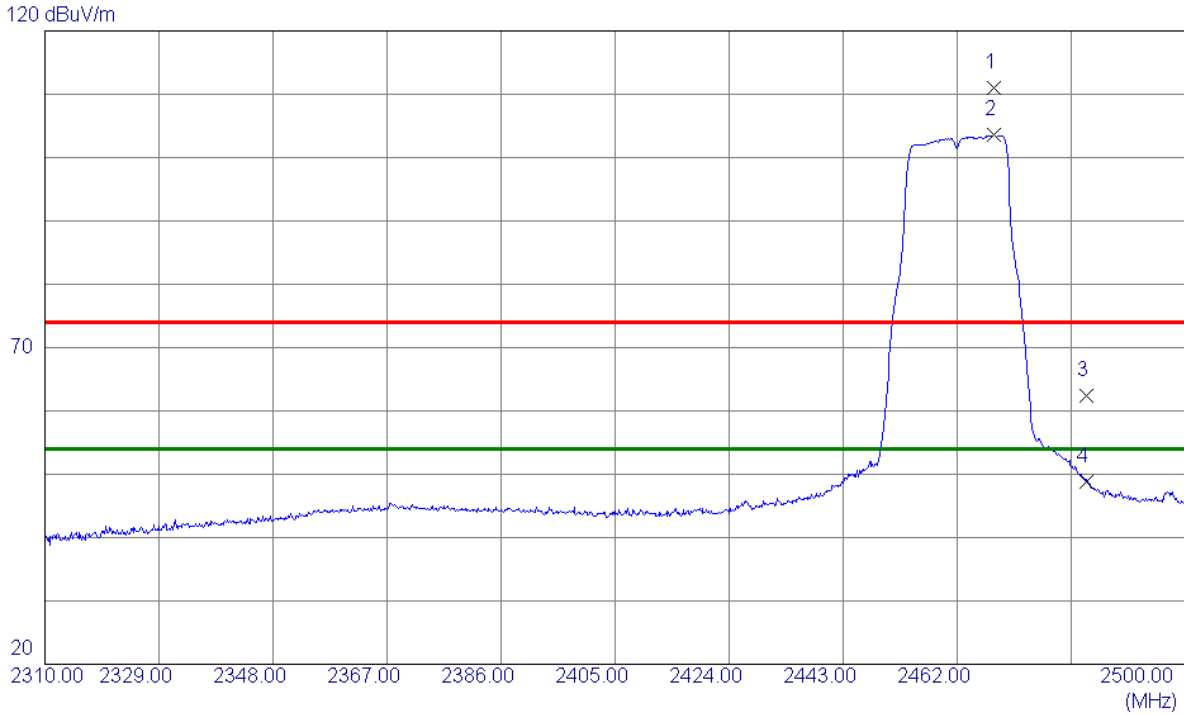


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4867.5000	56.53	-9.78	46.75	74.00	-27.25	Peak	

**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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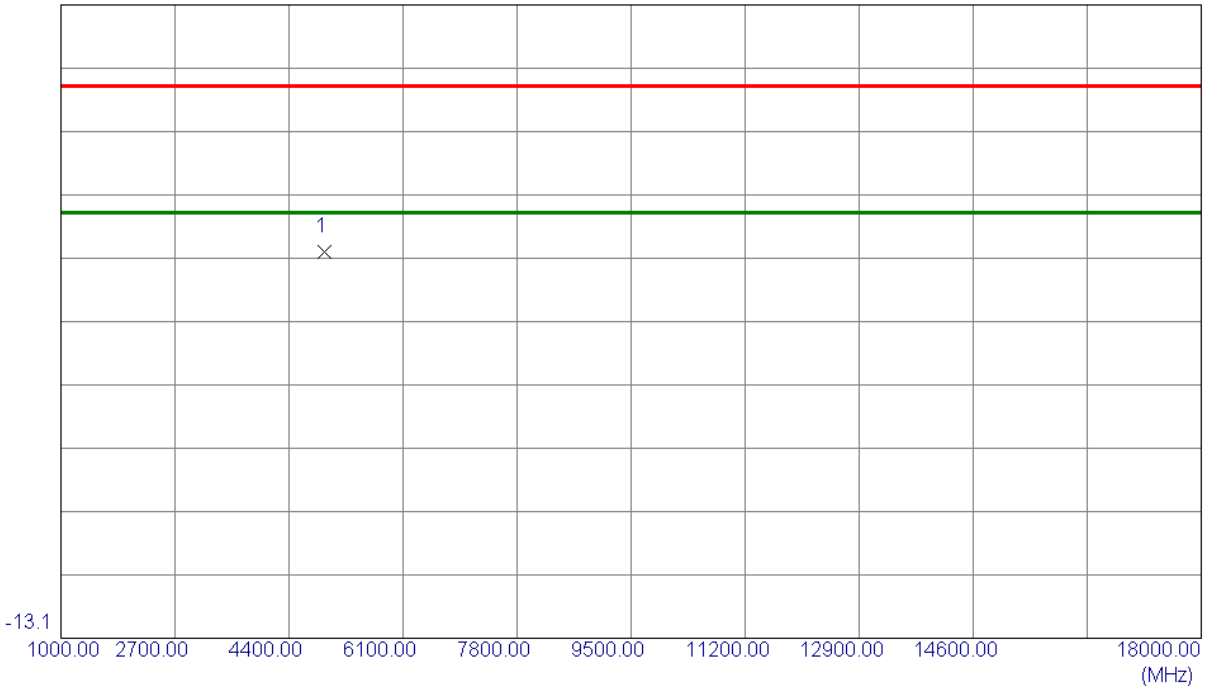
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.0800	79.38	31.71	111.09	74.00	37.09	Peak	NO limit
2 *	2468.0800	71.81	31.71	103.52	54.00	49.52	AVG	NO limit
3	2483.5000	30.63	31.71	62.34	74.00	-11.66	Peak	
4	2483.5000	17.17	31.71	48.88	54.00	-5.12	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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86.9 dBuV/m

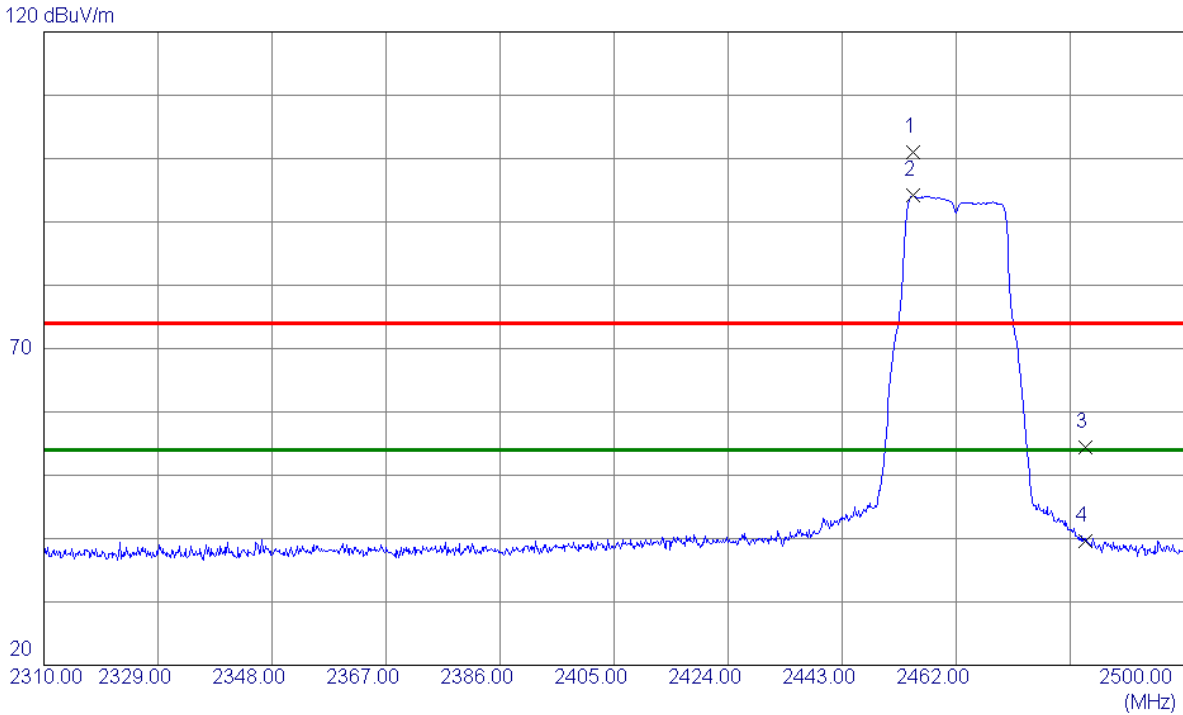


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.7500	57.56	-9.65	47.91	74.00	-26.09	Peak	

**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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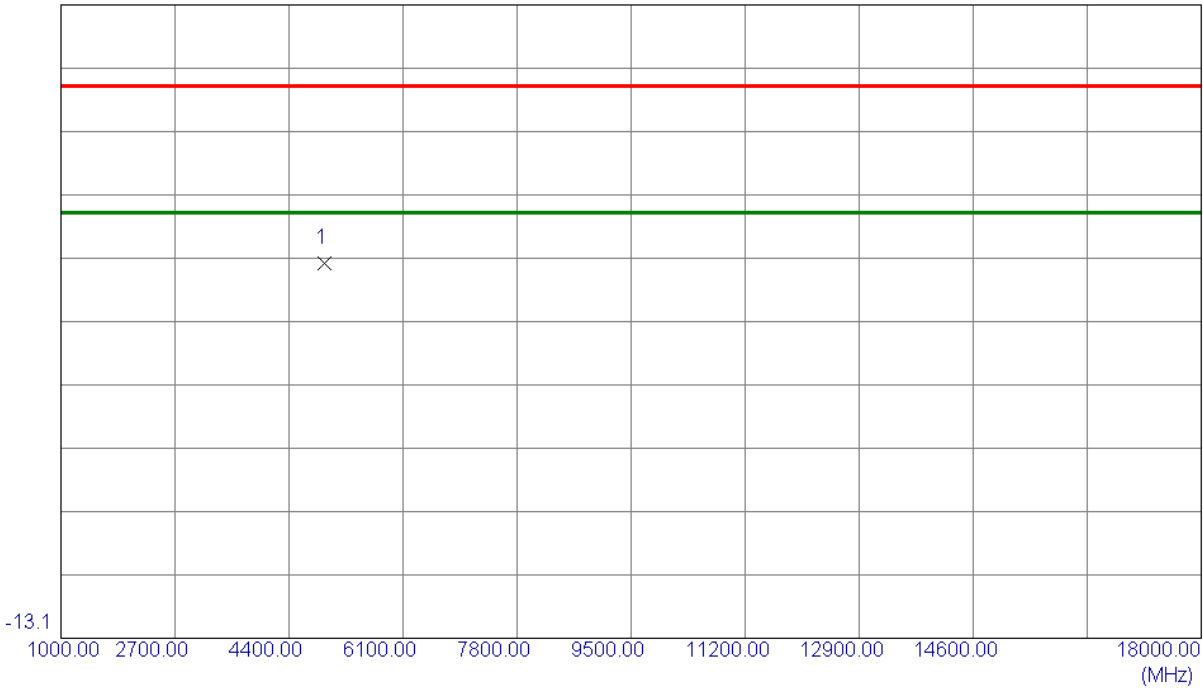
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.7800	69.36	31.71	101.07	74.00	27.07	Peak	NO limit
2 *	2454.7800	62.41	31.71	94.12	54.00	40.12	AVG	NO limit
3	2483.5000	22.75	31.71	54.46	74.00	-19.54	Peak	
4	2483.5000	7.94	31.71	39.65	54.00	-14.35	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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86.9 dBuV/m

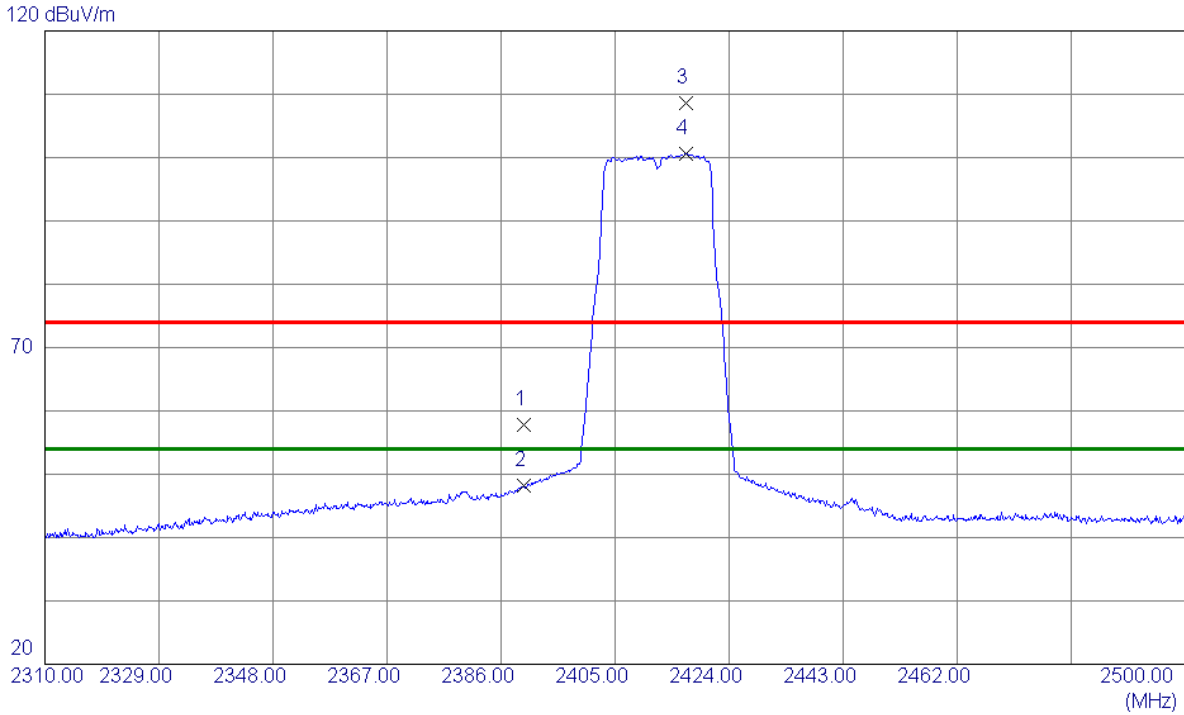


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4934.6500	55.79	-9.60	46.19	74.00	-27.81	Peak	

**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	2389.7050	26.05	31.74	57.79	74.00	-16.21	Peak	
2	2389.7050	16.40	31.74	48.14	54.00	-5.86	AVG	
3	2416.8750	76.92	31.72	108.64	74.00	34.64	Peak	NO limit
4 *	2416.8750	68.86	31.72	100.58	54.00	46.58	AVG	NO limit

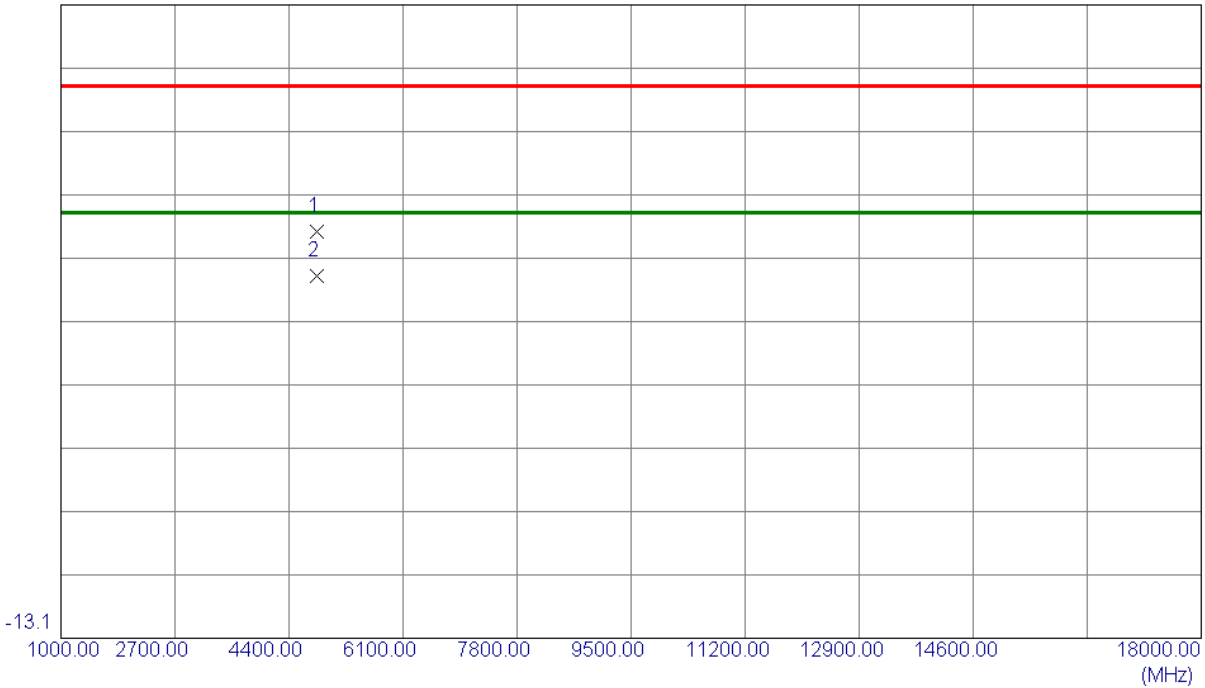
**REMARKS:**

- (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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86.9 dBuV/m

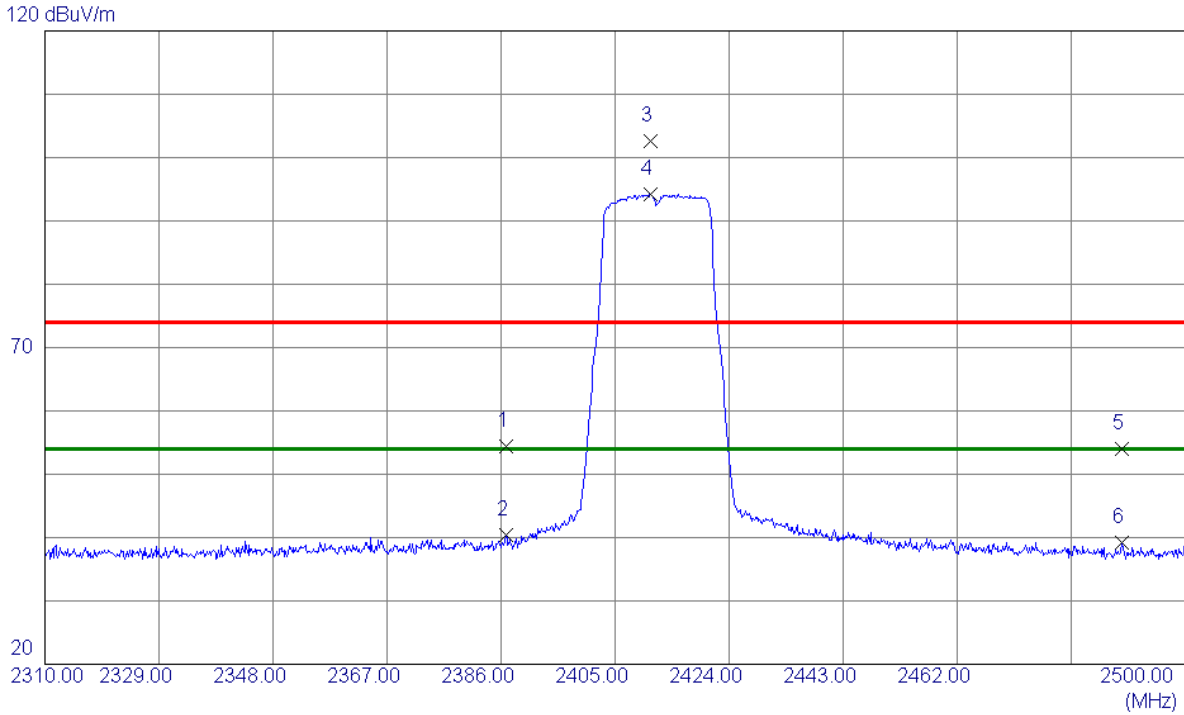


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.4500	60.87	-9.85	51.02	74.00	-22.98	Peak	
2 *	4822.8990	54.03	-9.85	44.18	54.00	-9.82	AVG	

**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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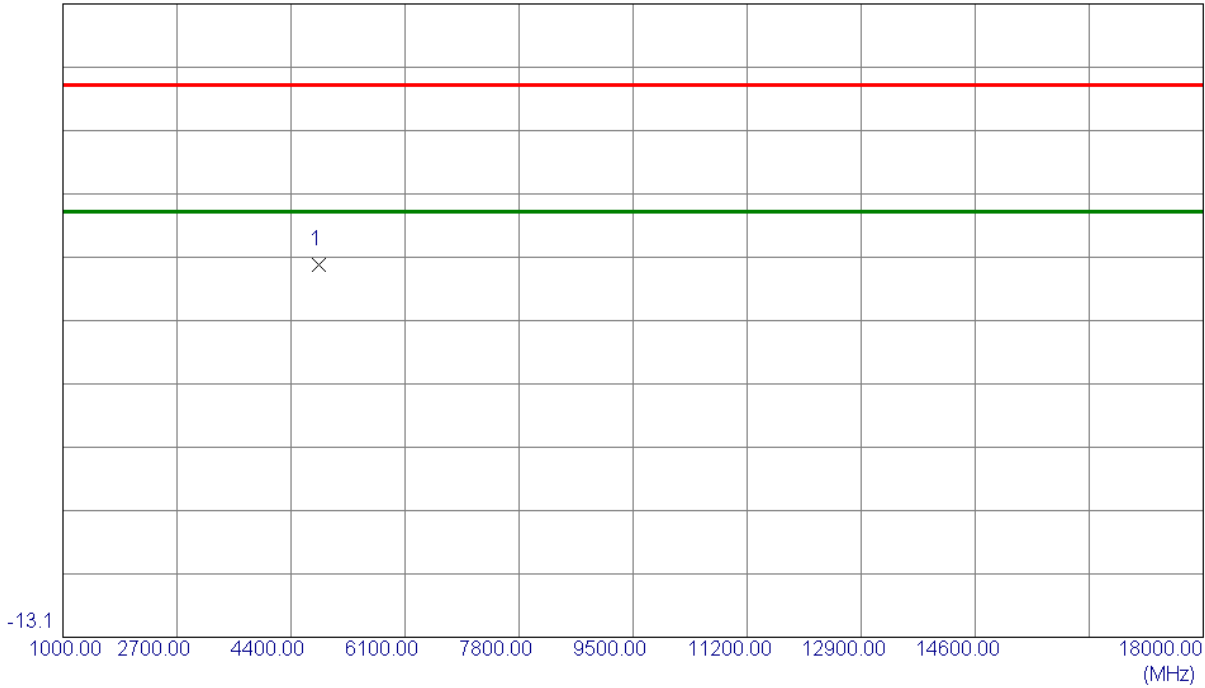
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.8550	22.66	31.75	54.41	74.00	-19.59	Peak	
2	2386.8550	8.64	31.75	40.39	54.00	-13.61	AVG	
3	2410.9850	70.86	31.72	102.58	74.00	28.58	Peak	NO limit
4 *	2410.9850	62.40	31.72	94.12	54.00	40.12	AVG	NO limit
5	2489.4550	22.25	31.71	53.96	74.00	-20.04	Peak	
6	2489.4550	7.53	31.71	39.24	54.00	-14.76	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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86.9 dBuV/m

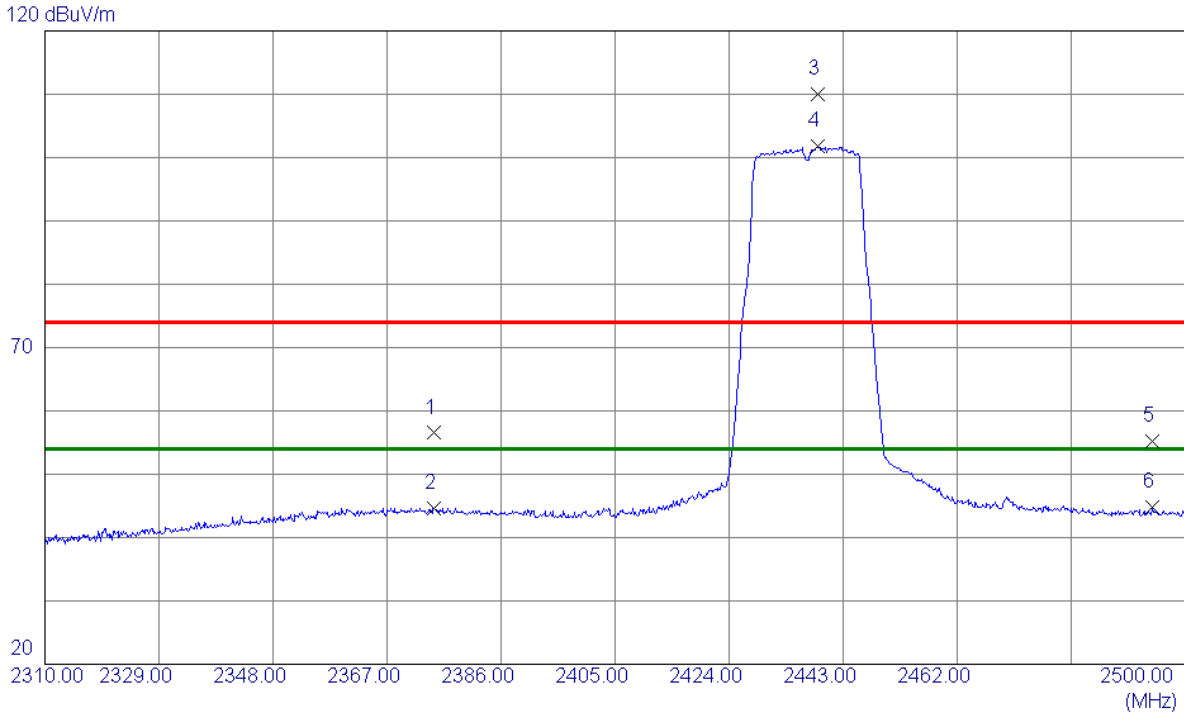


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.4500	55.59	-9.85	45.74	74.00	-28.26	Peak	

**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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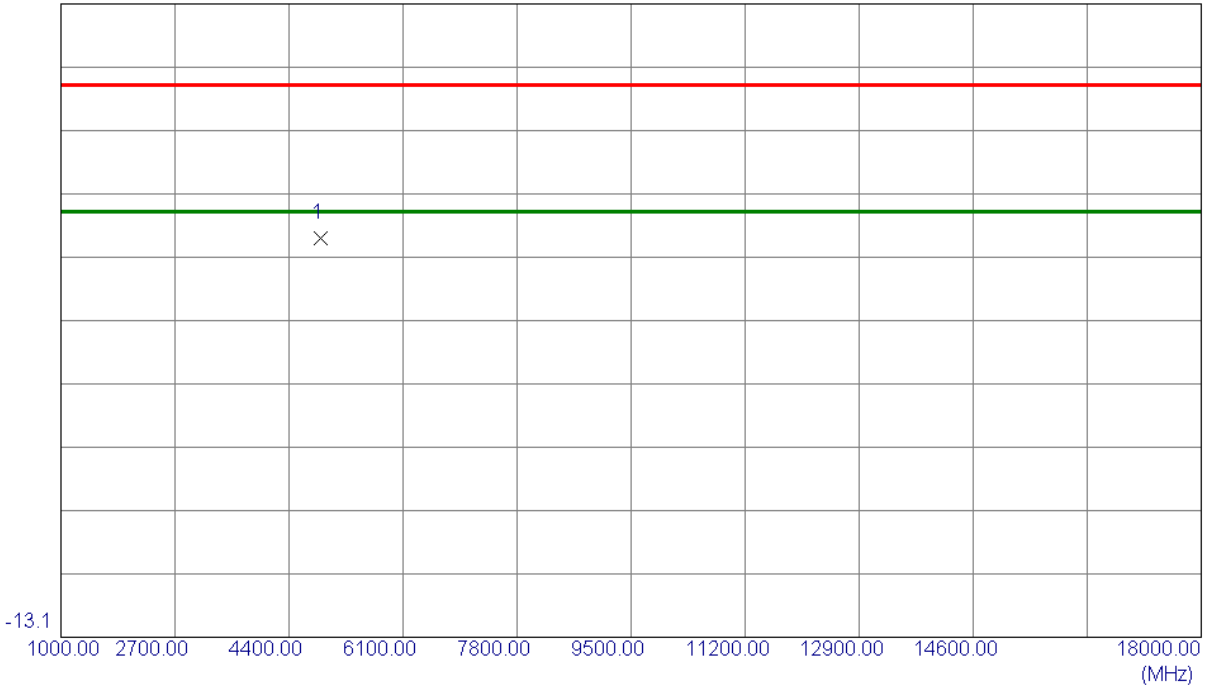
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2374.8850	24.73	31.77	56.50	74.00	-17.50	Peak	
2	2374.8850	12.85	31.77	44.62	54.00	-9.38	AVG	
3	2438.7250	78.18	31.72	109.90	74.00	35.90	Peak	NO limit
4 *	2438.7250	70.15	31.72	101.87	54.00	47.87	AVG	NO limit
5	2494.5850	23.52	31.71	55.23	74.00	-18.77	Peak	
6	2494.5850	13.18	31.71	44.89	54.00	-9.11	AVG	

**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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86.9 dBuV/m

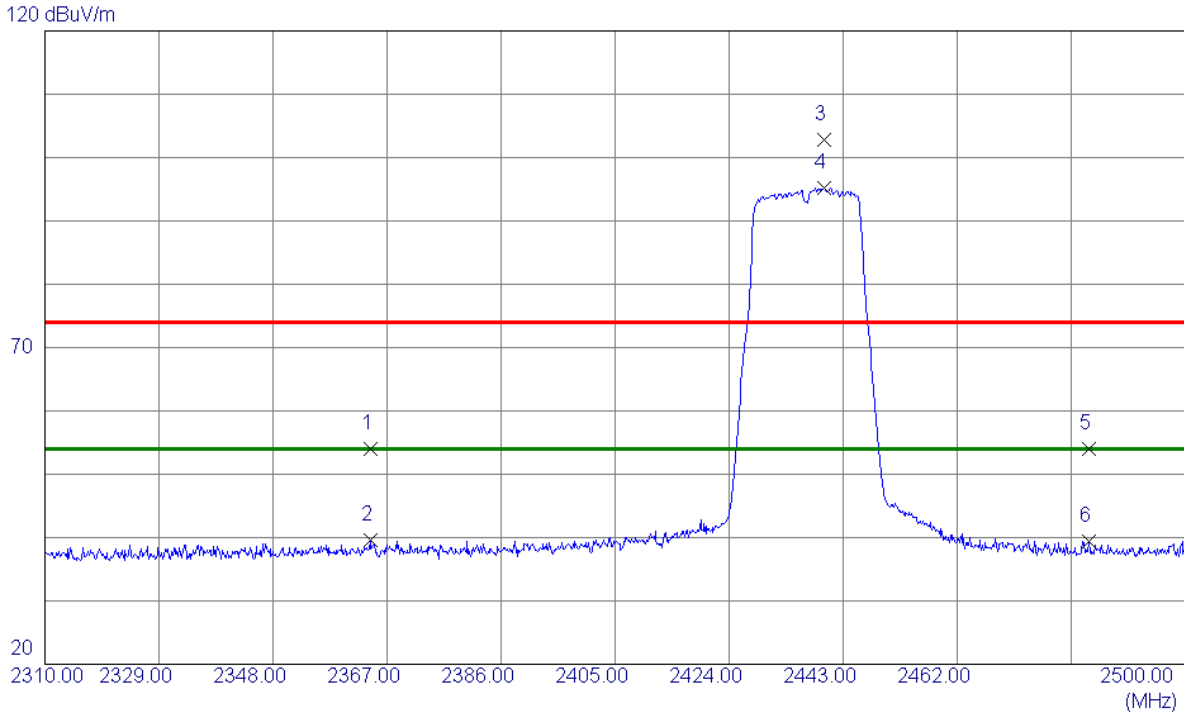


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4870.0500	59.64	-9.78	49.86	74.00	-24.14	Peak	

**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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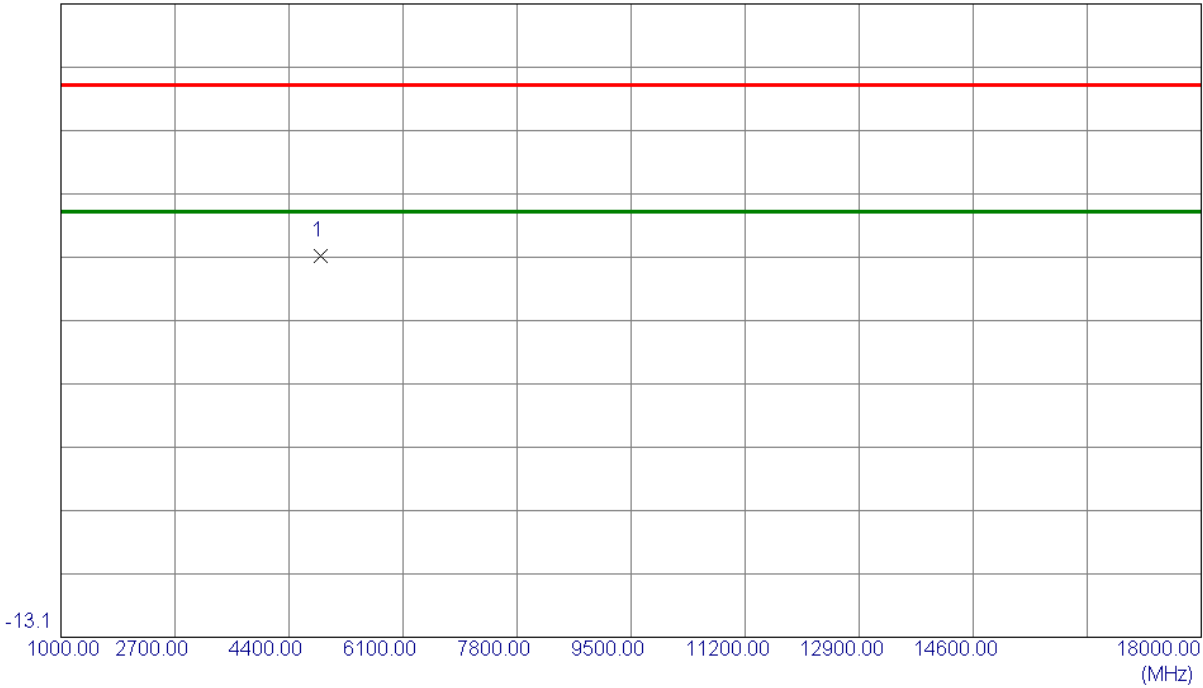
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2364.2450	22.18	31.79	53.97	74.00	-20.03	Peak	
2	2364.2450	7.77	31.79	39.56	54.00	-14.44	AVG	
3	2439.7700	71.12	31.72	102.84	74.00	28.84	Peak	NO limit
4 *	2439.7700	63.47	31.72	95.19	54.00	41.19	AVG	NO limit
5	2483.9450	22.29	31.71	54.00	74.00	-20.00	Peak	
6	2483.9450	7.66	31.71	39.37	54.00	-14.63	AVG	

**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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86.9 dBuV/m

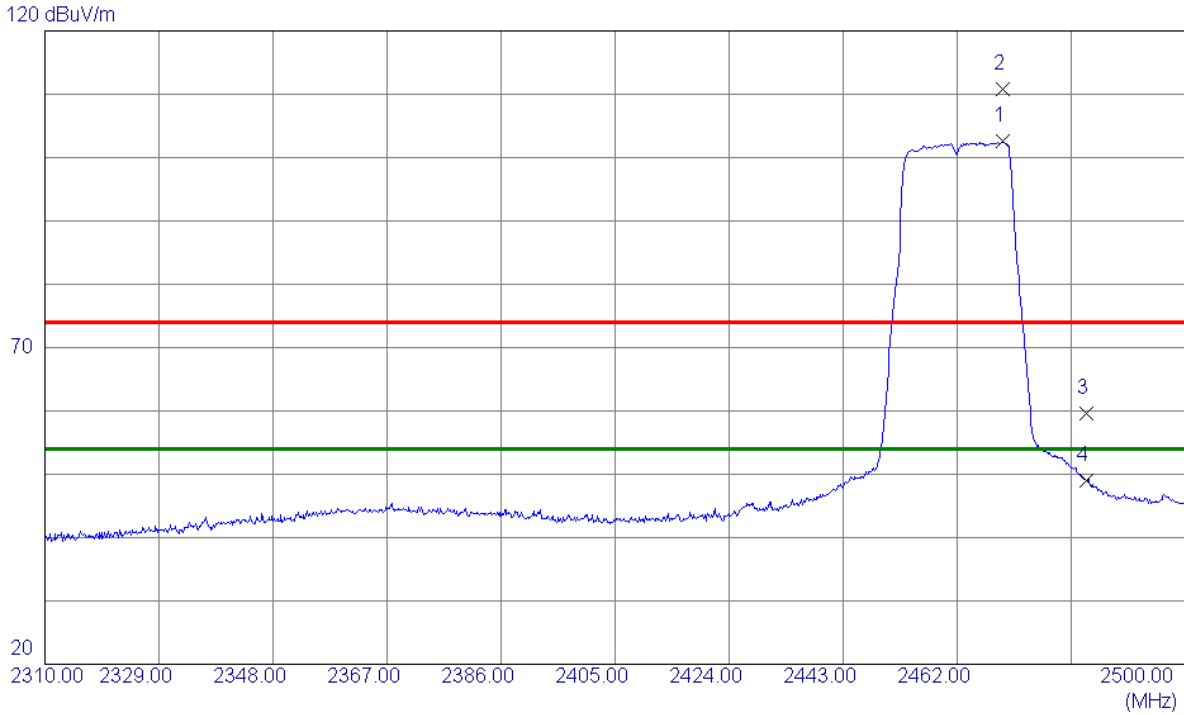


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4500	56.78	-9.77	47.01	74.00	-26.99	Peak	

**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	2469.5049	70.90	31.71	102.61	74.00	28.61	Peak	NO limit
2 *	2469.5049	79.10	31.71	110.81	54.00	56.81	AVG	NO limit
3	2483.5000	27.94	31.71	59.65	74.00	-14.35	Peak	
4	2483.5000	17.31	31.71	49.02	54.00	-4.98	AVG	

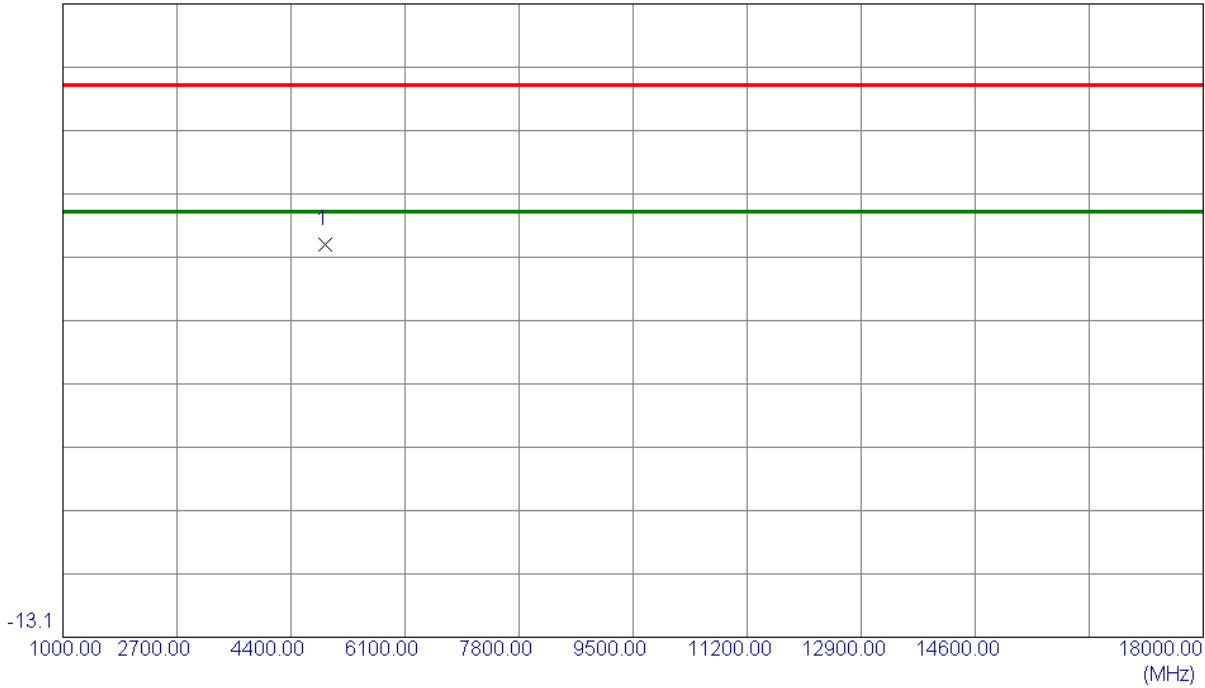
**REMARKS:**

- (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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86.9 dBuV/m

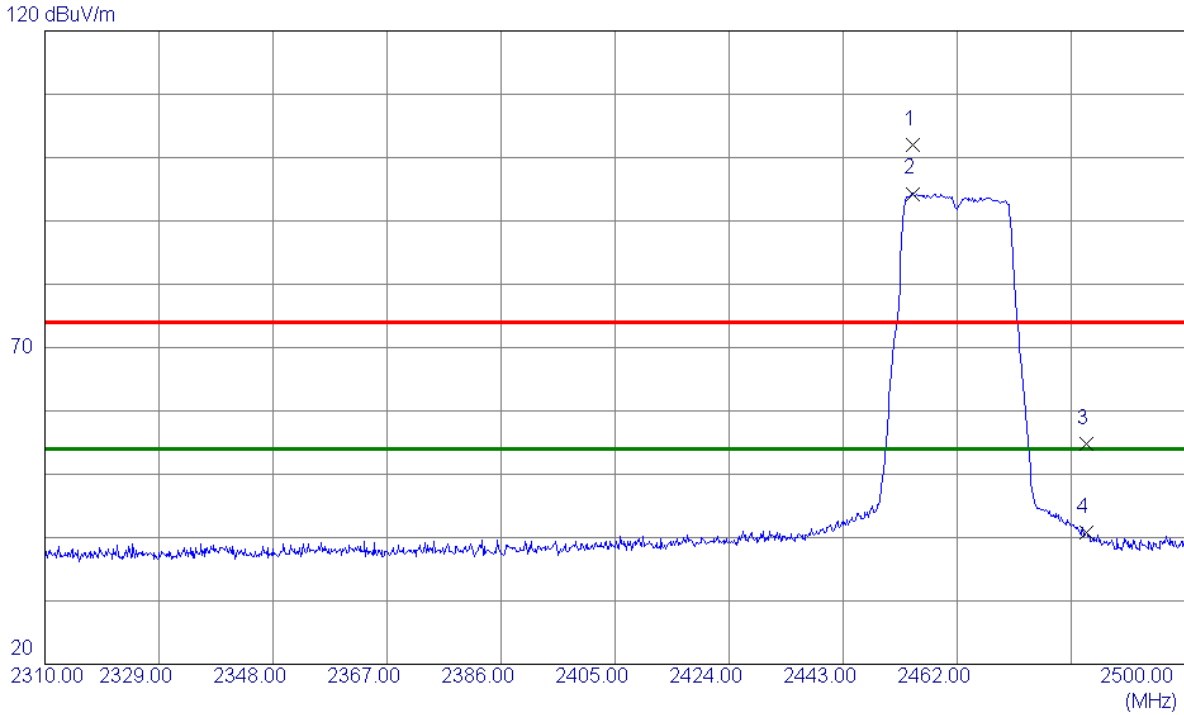


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4917.6500	58.56	-9.66	48.90	74.00	-25.10	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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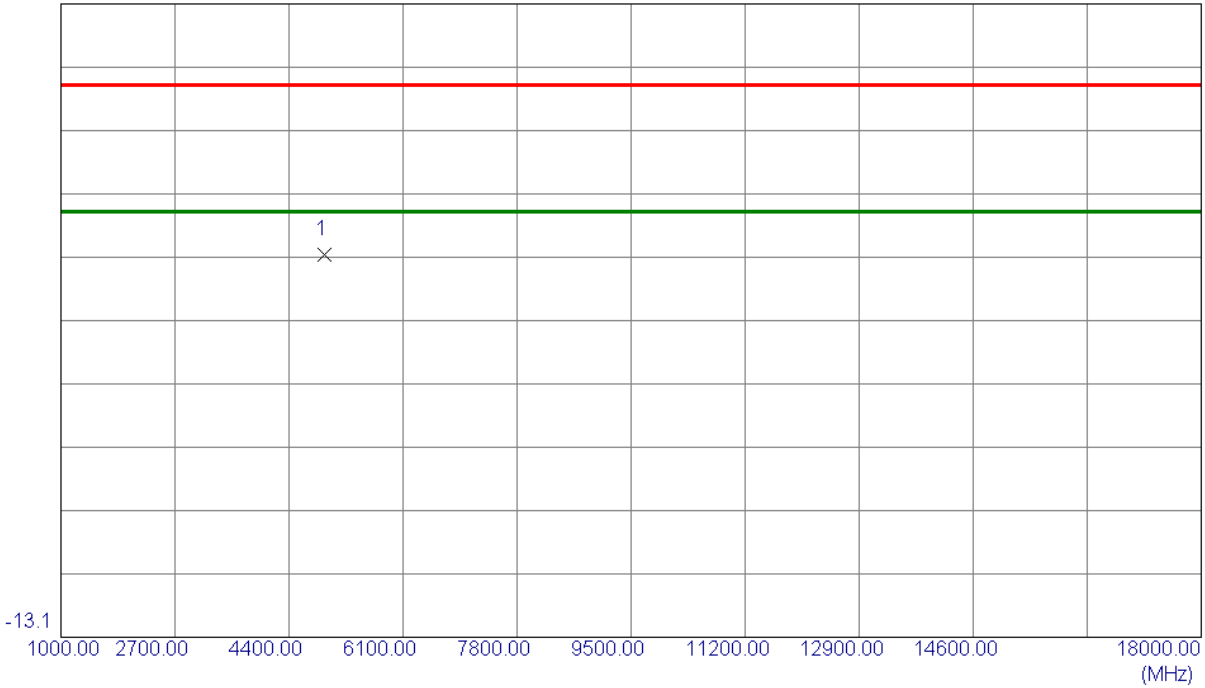
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.5900	70.32	31.71	102.03	74.00	28.03	Peak	NO limit
2 *	2454.5900	62.59	31.71	94.30	54.00	40.30	AVG	NO limit
3	2483.5000	23.03	31.71	54.74	74.00	-19.26	Peak	
4	2483.5000	9.02	31.71	40.73	54.00	-13.27	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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86.9 dBuV/m

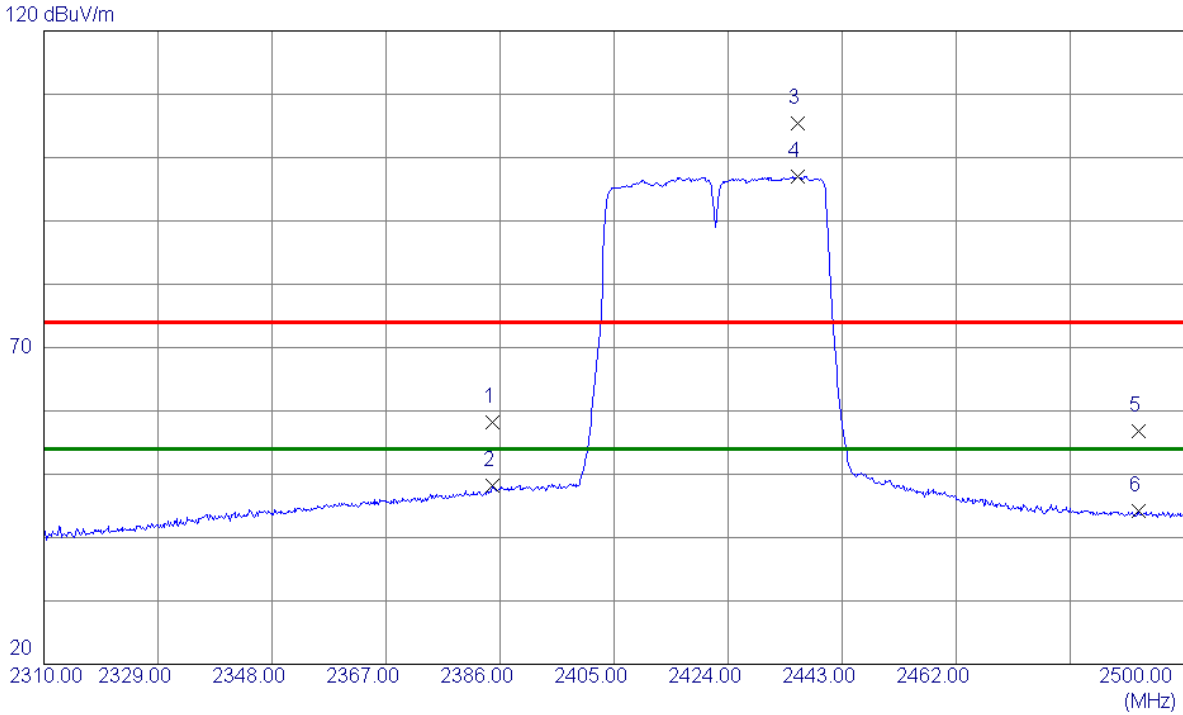


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.0500	56.88	-9.65	47.23	74.00	-26.77	Peak	

**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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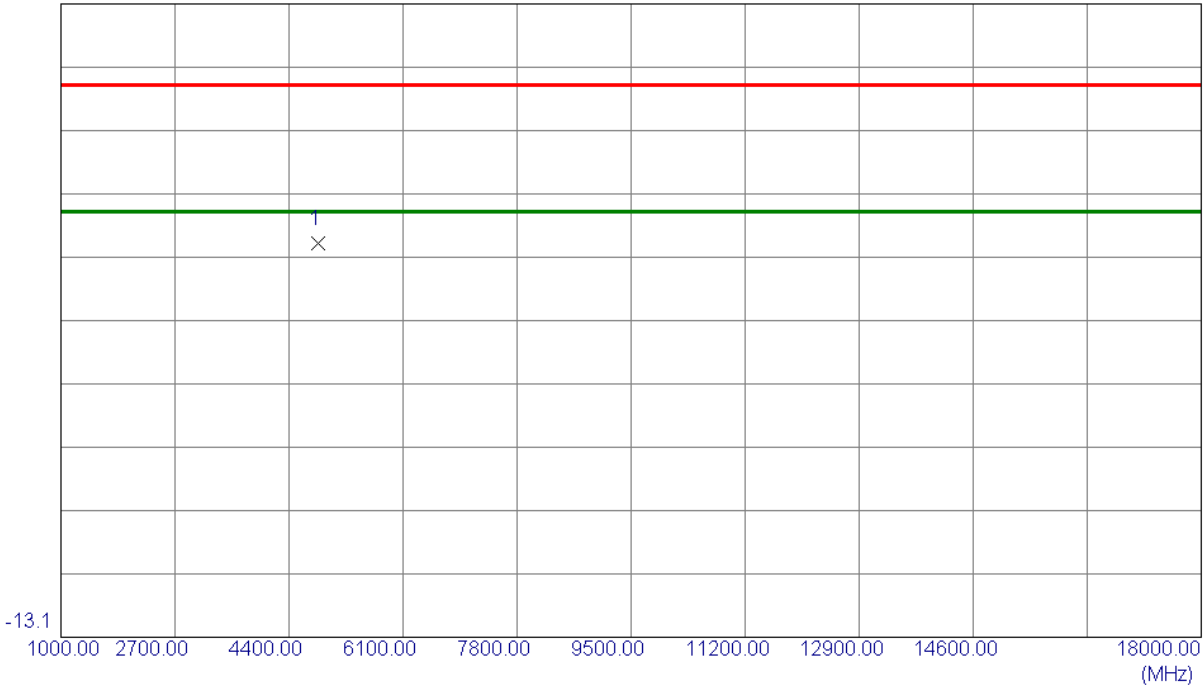
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2384.7649	26.46	31.75	58.21	74.00	-15.79	Peak	
2	2384.7649	16.52	31.75	48.27	54.00	-5.73	AVG	
3	2435.6850	73.59	31.72	105.31	74.00	31.31	Peak	NO limit
4 *	2435.6850	65.25	31.72	96.97	54.00	42.97	AVG	NO limit
5	2492.3050	25.03	31.71	56.74	74.00	-17.26	Peak	
6	2492.3050	12.56	31.71	44.27	54.00	-9.73	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	Vertical
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86.9 dBuV/m

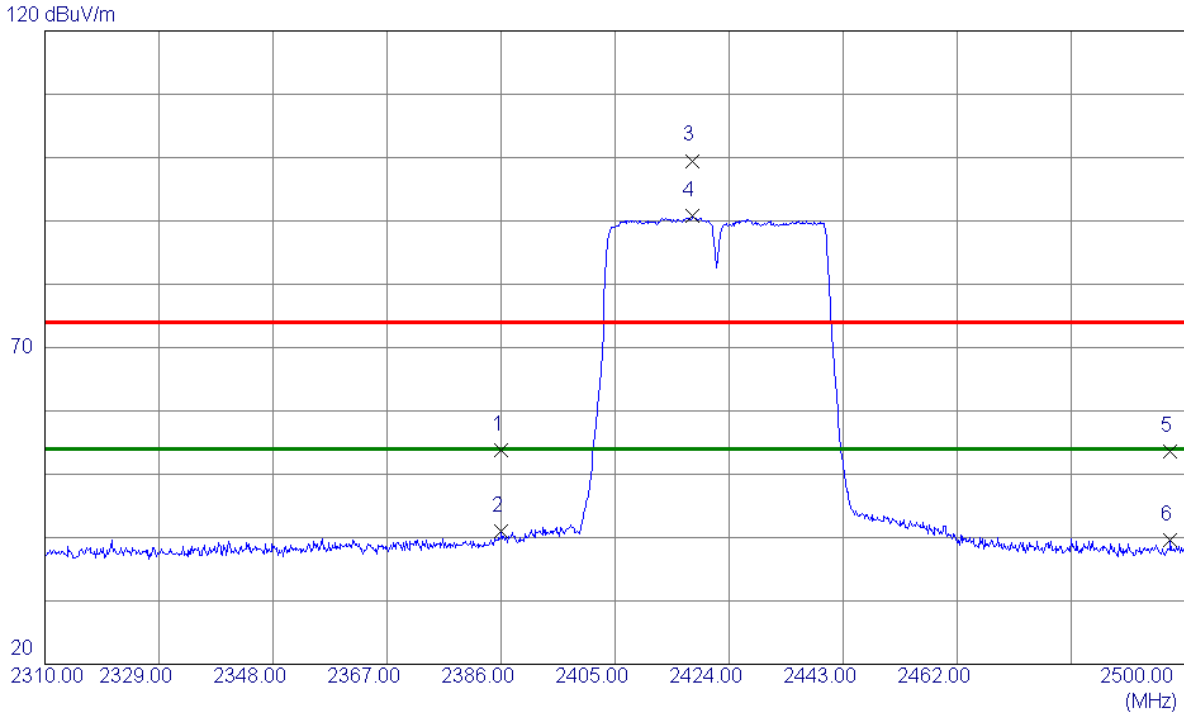


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4840.3000	58.82	-9.82	49.00	74.00	-25.00	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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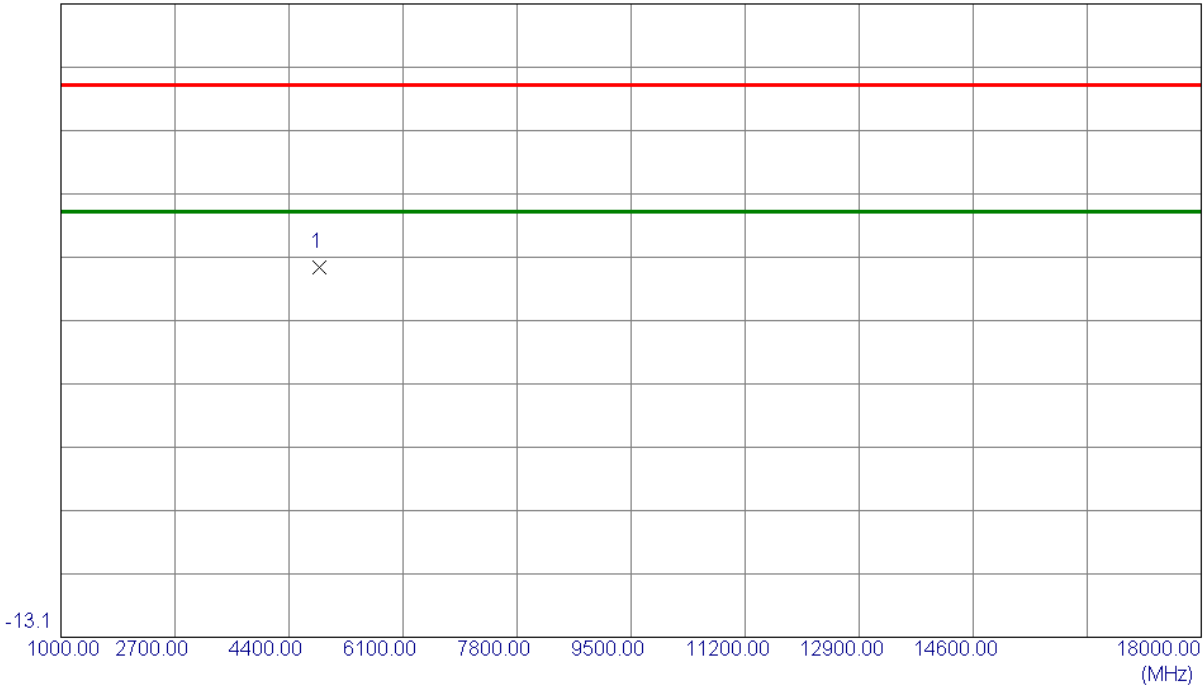
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.0000	22.11	31.75	53.86	74.00	-20.14	Peak	
2	2386.0000	9.20	31.75	40.95	54.00	-13.05	AVG	
3	2417.9200	67.78	31.72	99.50	74.00	25.50	Peak	NO limit
4 *	2417.9200	58.99	31.72	90.71	54.00	36.71	AVG	NO limit
5	2497.5300	21.96	31.71	53.67	74.00	-20.33	Peak	
6	2497.5300	7.87	31.71	39.58	54.00	-14.42	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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86.9 dBuV/m

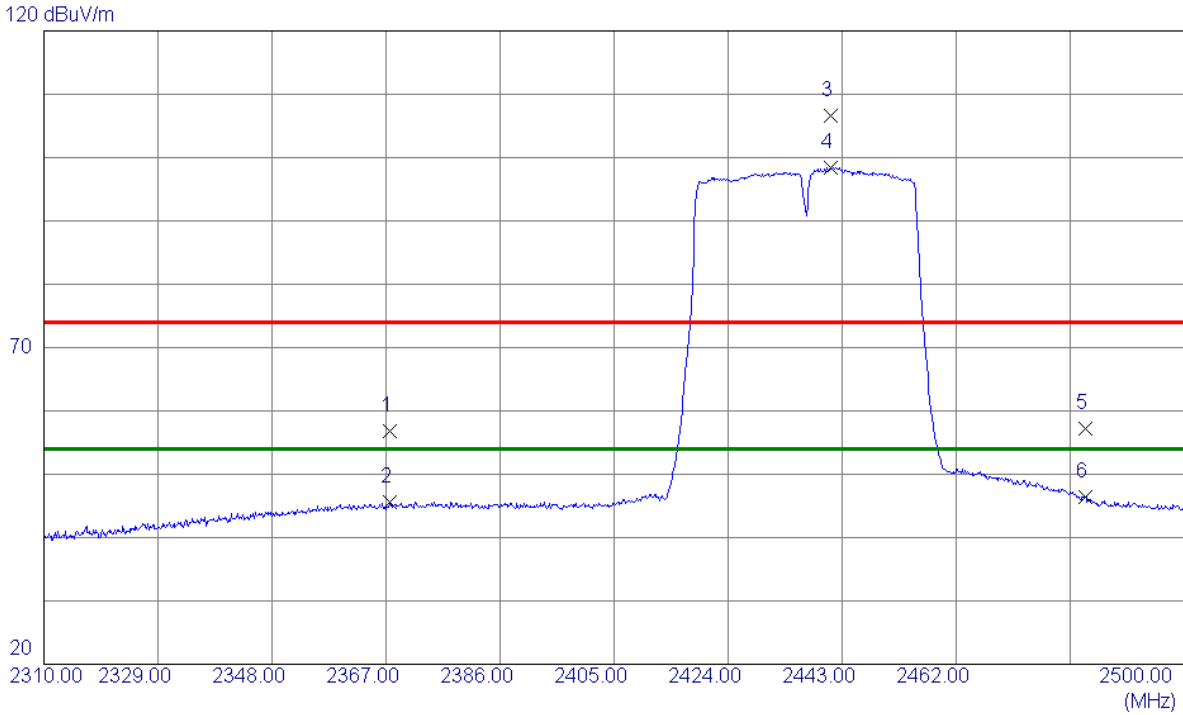


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.5500	55.13	-9.82	45.31	74.00	-28.69	Peak	

**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	2367.5700	24.96	31.78	56.74	74.00	-17.26	Peak	
2	2367.5700	13.79	31.78	45.57	54.00	-8.43	AVG	
3	2441.0049	74.96	31.72	106.68	74.00	32.68	Peak	NO limit
4 *	2441.0049	66.76	31.72	98.48	54.00	44.48	AVG	NO limit
5	2483.5000	25.47	31.71	57.18	74.00	-16.82	Peak	
6	2483.5000	14.74	31.71	46.45	54.00	-7.55	AVG	

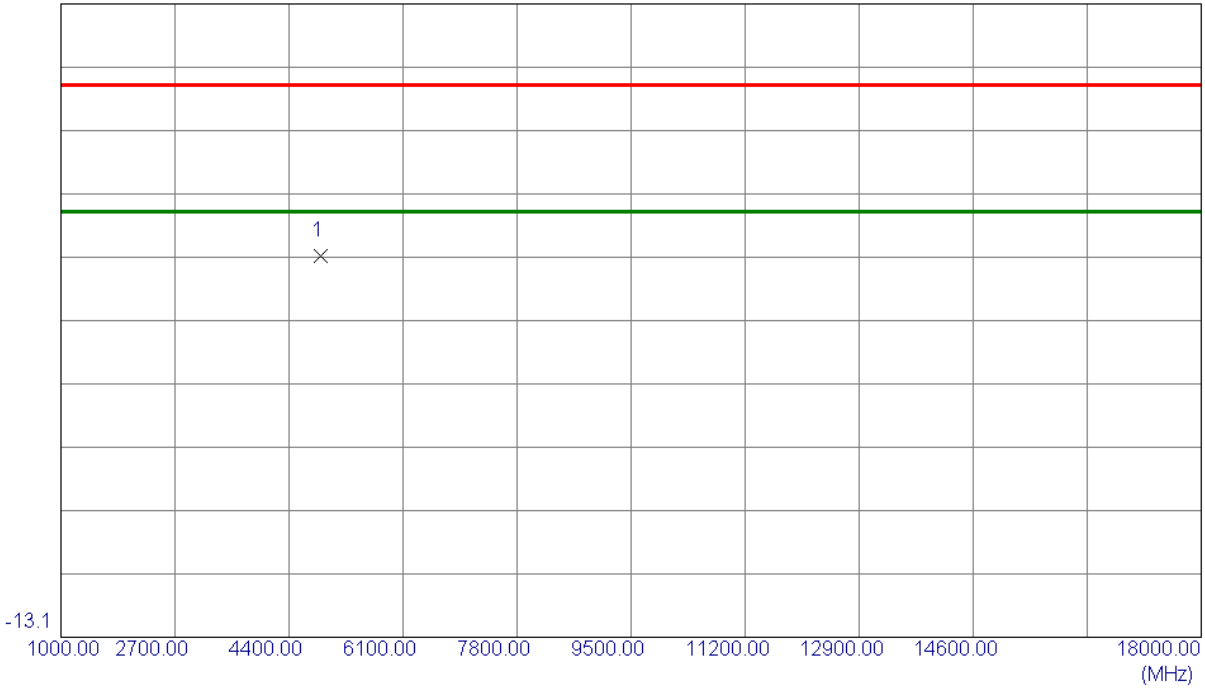
**REMARKS:**

- (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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86.9 dBuV/m

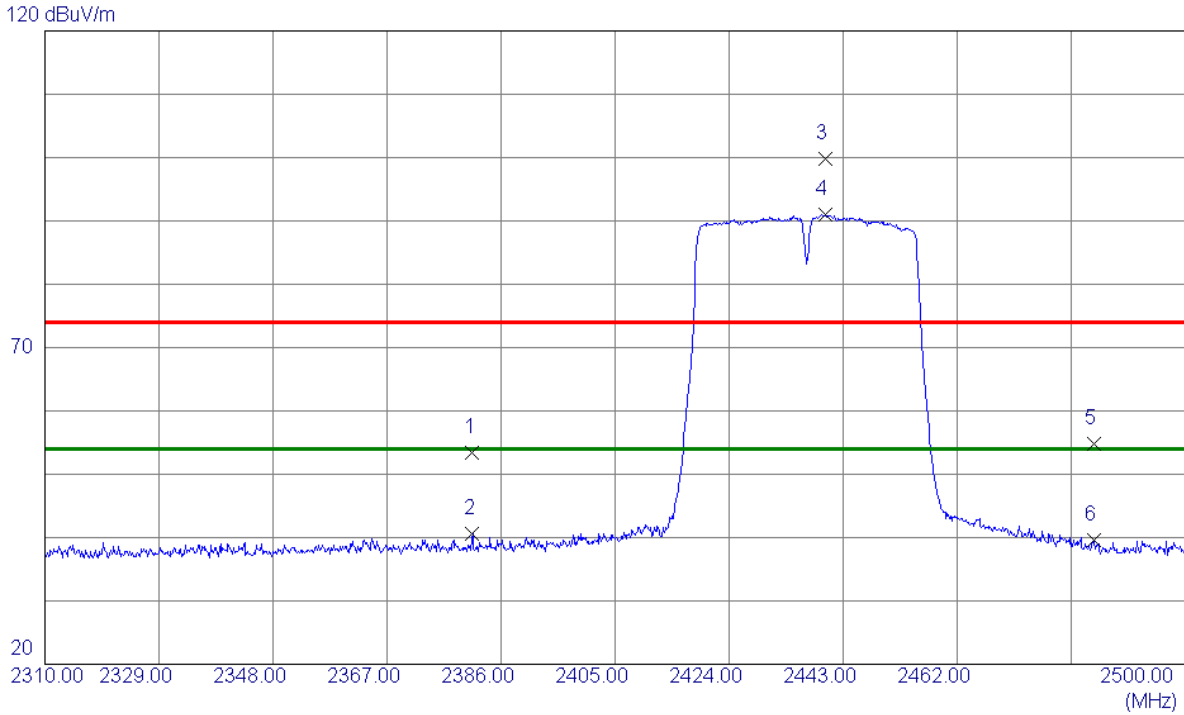


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4864.9500	56.98	-9.79	47.19	74.00	-26.81	Peak	

**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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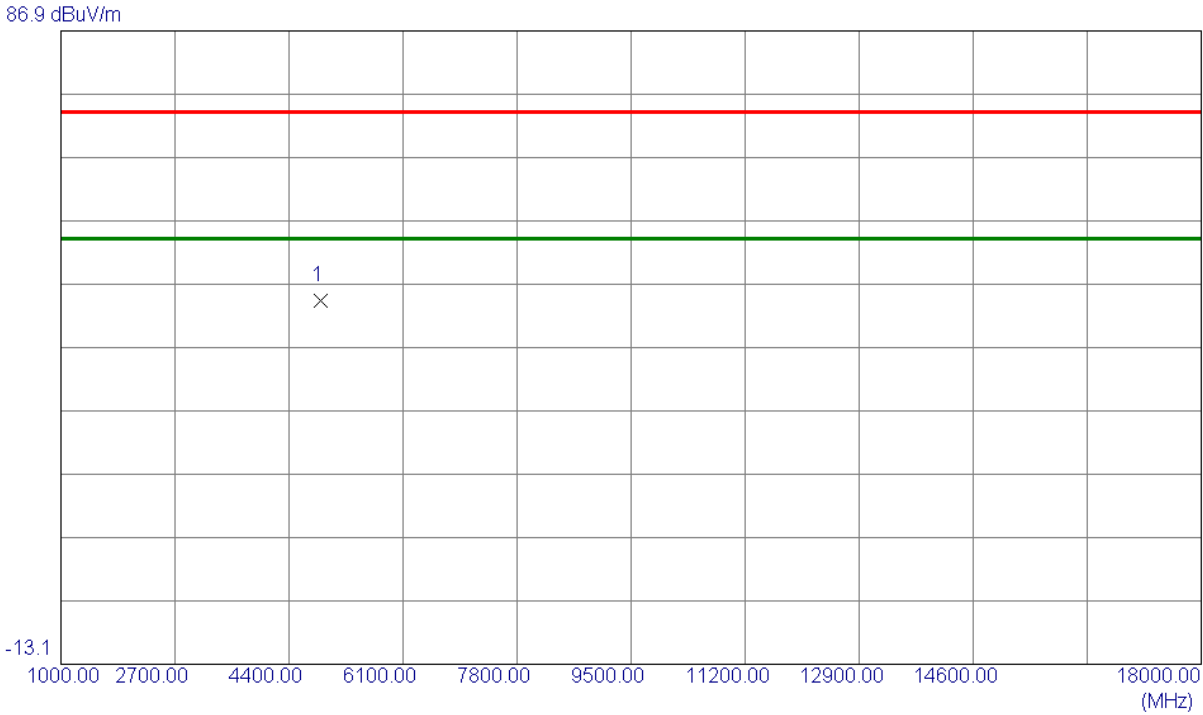


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2381.2500	21.67	31.76	53.43	74.00	-20.57	Peak	
2	2381.2500	8.85	31.76	40.61	54.00	-13.39	AVG	
3	2439.9600	68.08	31.72	99.80	74.00	25.80	Peak	NO limit
4 *	2439.9600	59.19	31.72	90.91	54.00	36.91	AVG	NO limit
5	2484.7050	23.02	31.71	54.73	74.00	-19.27	Peak	
6	2484.7050	7.95	31.71	39.66	54.00	-14.34	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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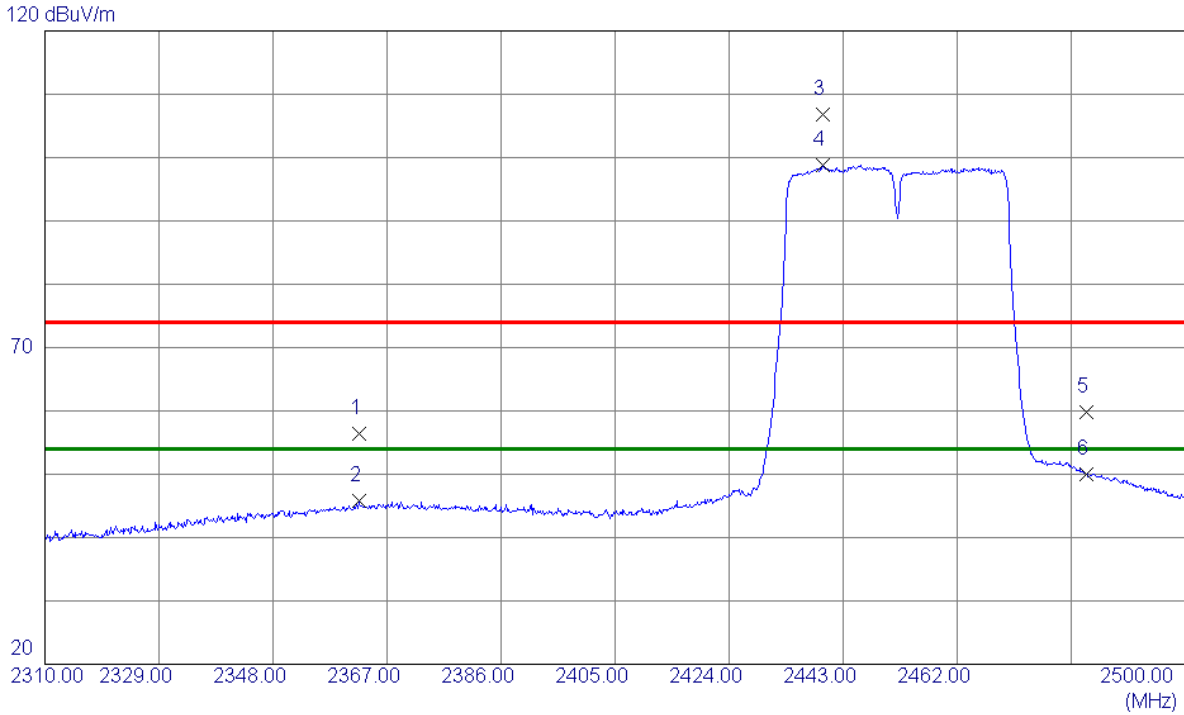


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4500	53.98	-9.77	44.21	74.00	-29.79	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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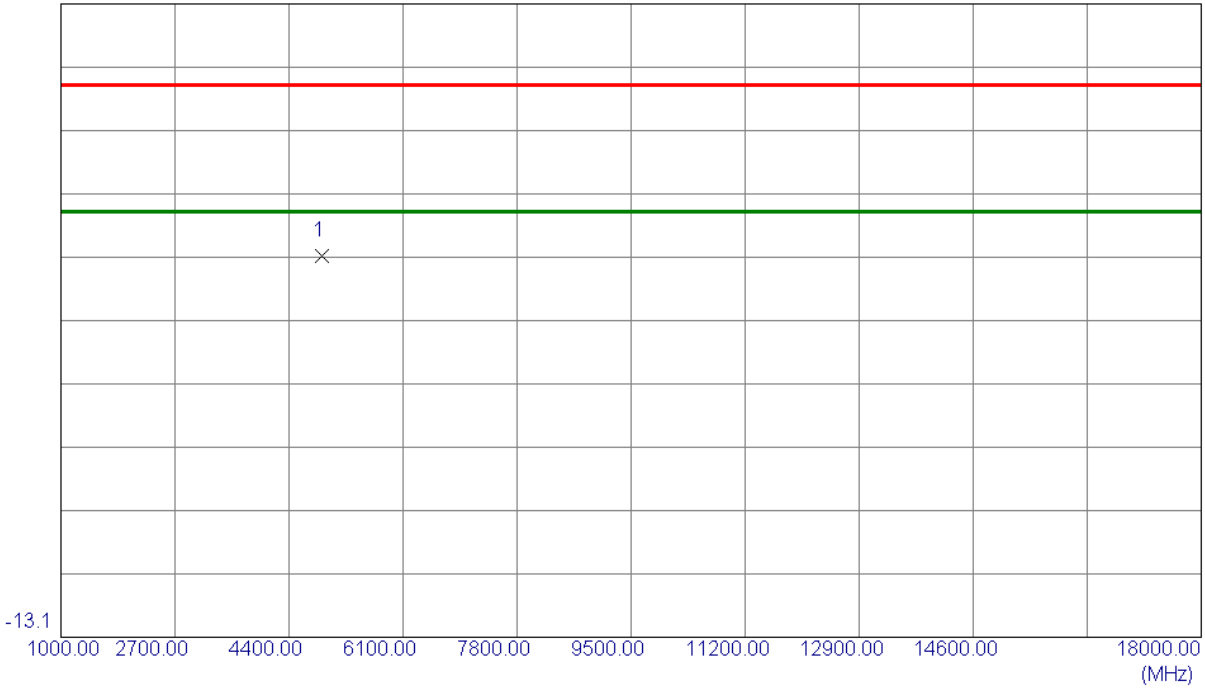
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2362.3450	24.60	31.79	56.39	74.00	-17.61	Peak	
2	2362.3450	13.99	31.79	45.78	54.00	-8.22	AVG	
3	2439.6750	75.08	31.72	106.80	74.00	32.80	Peak	NO limit
4 *	2439.6750	67.03	31.72	98.75	54.00	44.75	AVG	NO limit
5	2483.5000	28.06	31.71	59.77	74.00	-14.23	Peak	
6	2483.5000	18.22	31.71	49.93	54.00	-4.07	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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86.9 dBuV/m

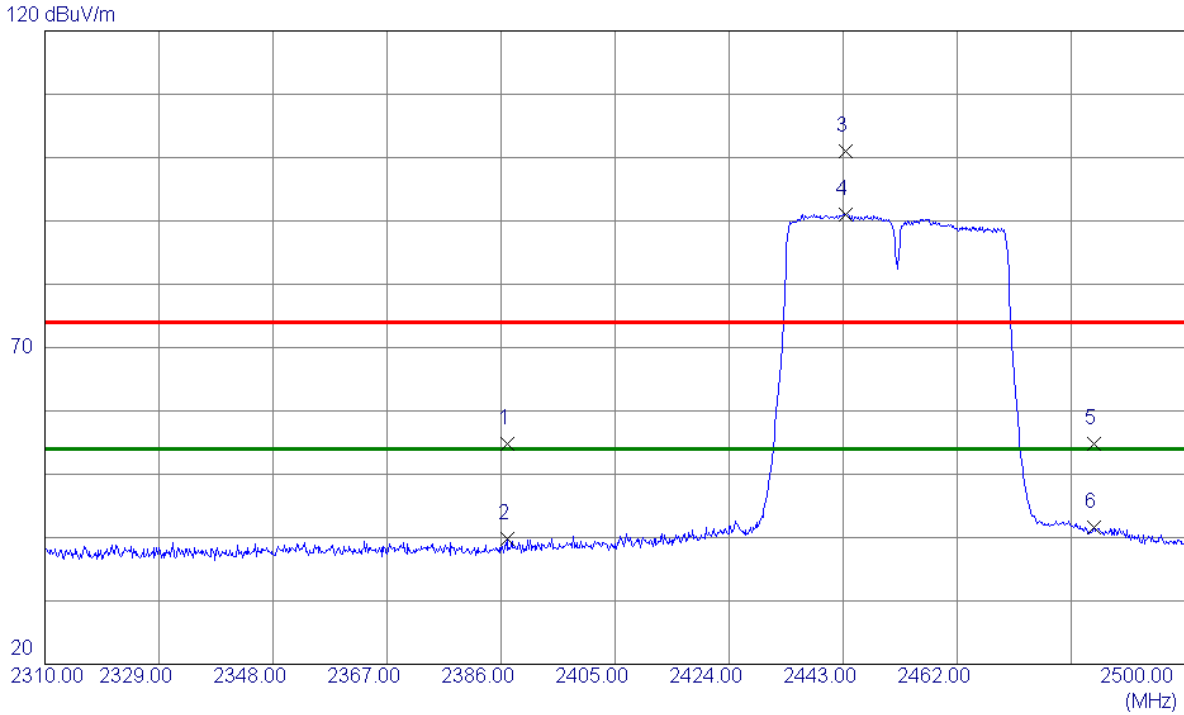


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4898.1000	56.77	-9.73	47.04	74.00	-26.96	Peak	

**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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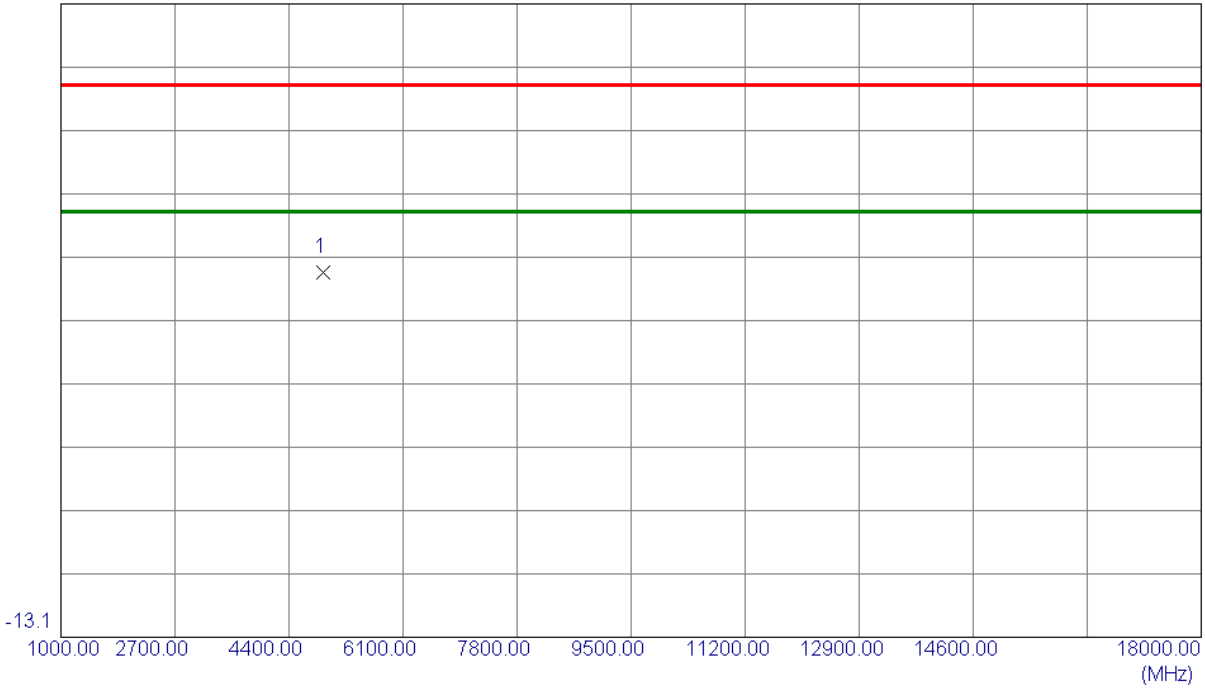
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.0450	23.05	31.75	54.80	74.00	-19.20	Peak	
2	2387.0450	8.00	31.75	39.75	54.00	-14.25	AVG	
3	2443.4750	69.25	31.72	100.97	74.00	26.97	Peak	NO limit
4 *	2443.4750	59.27	31.72	90.99	54.00	36.99	AVG	NO limit
5	2484.8950	23.15	31.71	54.86	74.00	-19.14	Peak	
6	2484.8950	9.97	31.71	41.68	54.00	-12.32	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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86.9 dBuV/m

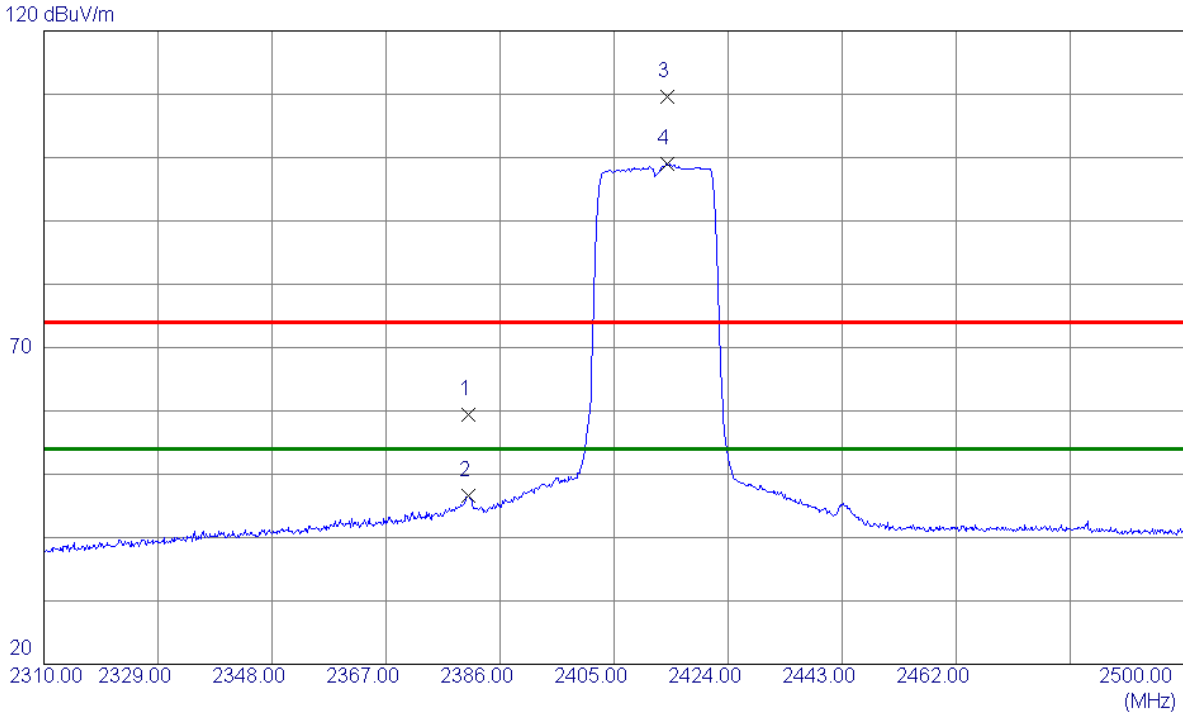


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0000	54.15	-9.72	44.43	74.00	-29.57	Peak	

**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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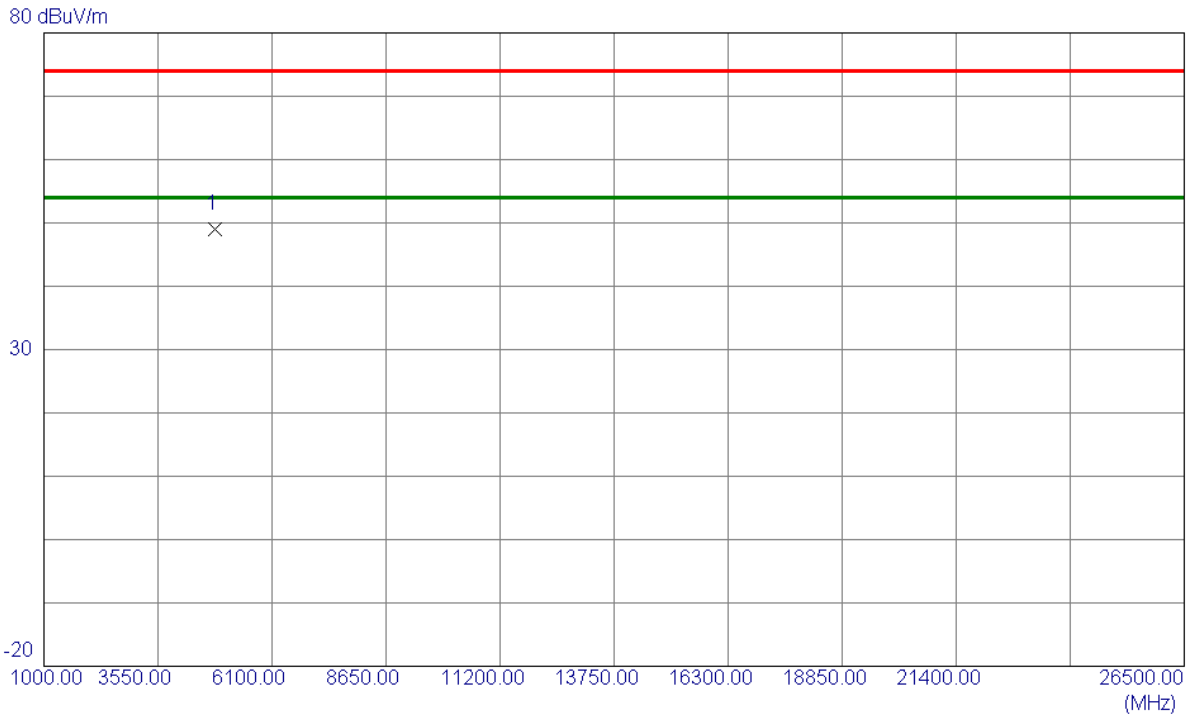
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2380.6800	27.58	31.76	59.34	74.00	-14.66	Peak	
2	2380.6800	14.79	31.76	46.55	54.00	-7.45	AVG	
3	2413.8350	77.83	31.72	109.55	74.00	35.55	Peak	NO limit
4 *	2413.8350	67.25	31.72	98.97	54.00	44.97	AVG	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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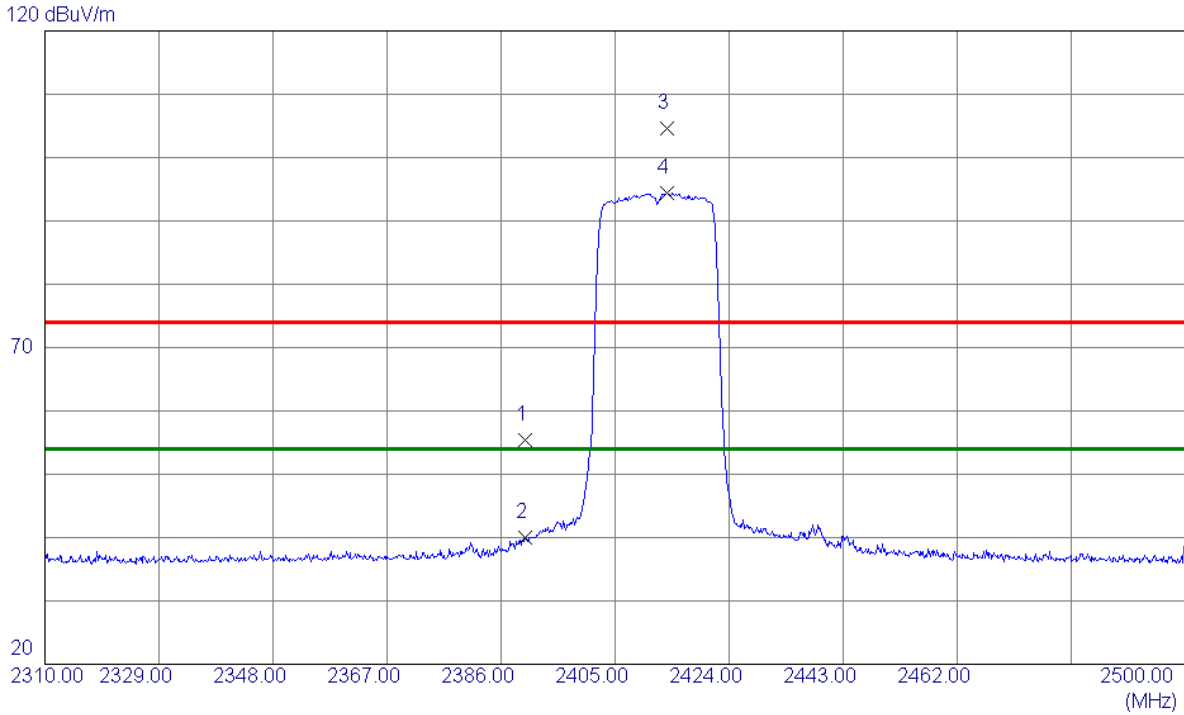


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.4500	65.94	-16.99	48.95	74.00	-25.05	Peak	

**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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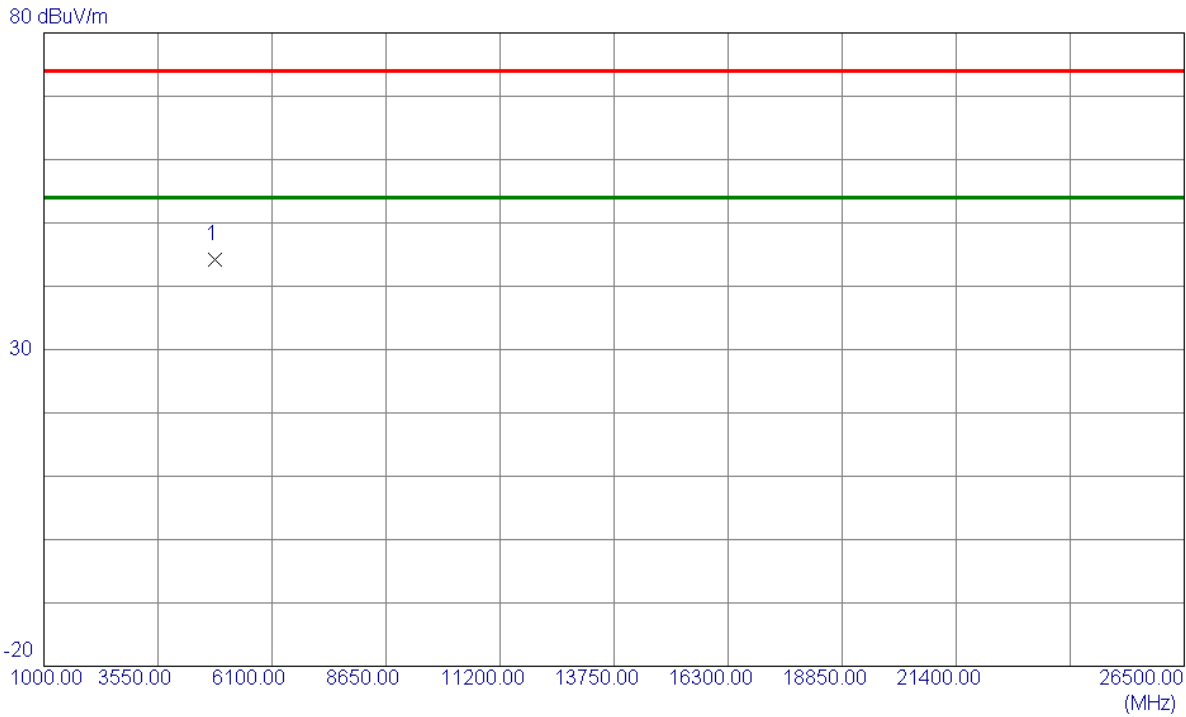


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.65	31.74	55.39	74.00	-18.61	Peak	
2	2390.0000	8.18	31.74	39.92	54.00	-14.08	AVG	
3	2413.5500	72.95	31.72	104.67	74.00	30.67	Peak	NO limit
4 *	2413.5500	62.66	31.72	94.38	54.00	40.38	AVG	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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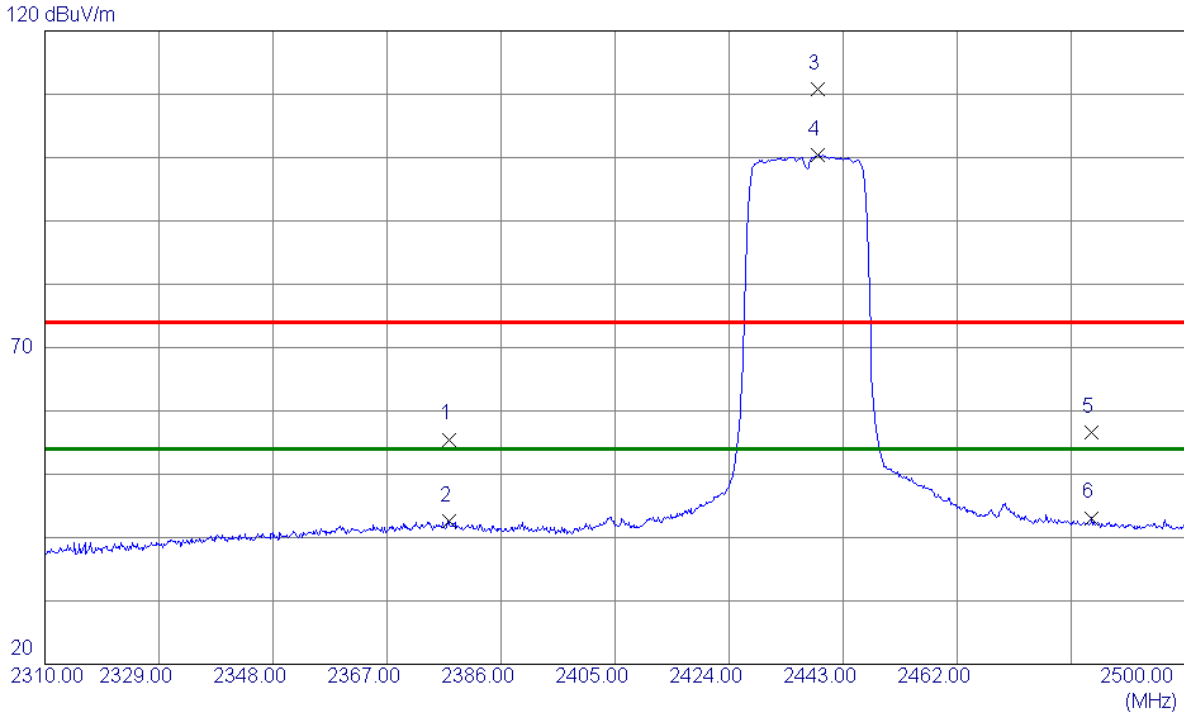


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.4500	61.14	-16.99	44.15	74.00	-29.85	Peak	

**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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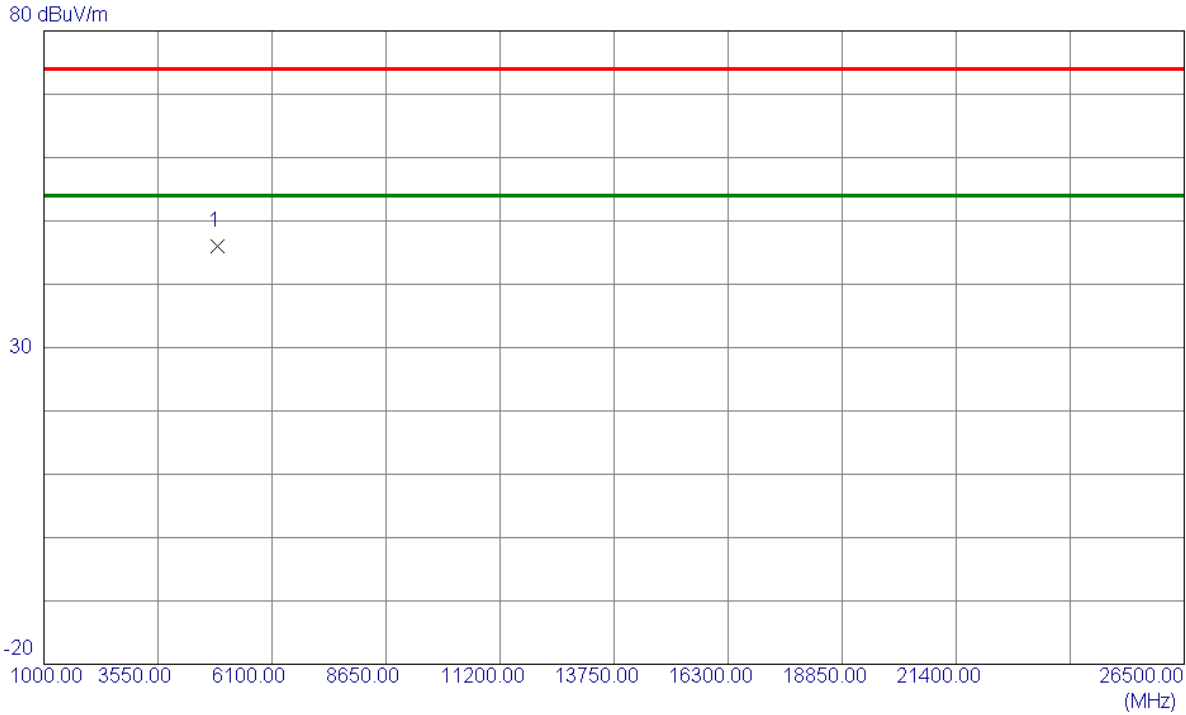


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2377.3550	23.74	31.76	55.50	74.00	-18.50	Peak	
2	2377.3550	10.89	31.76	42.65	54.00	-11.35	AVG	
3	2438.8200	79.17	31.72	110.89	74.00	36.89	Peak	NO limit
4 *	2438.8200	68.65	31.72	100.37	54.00	46.37	AVG	NO limit
5	2484.4200	24.87	31.71	56.58	74.00	-17.42	Peak	
6	2484.4200	11.39	31.71	43.10	54.00	-10.90	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	Vertical
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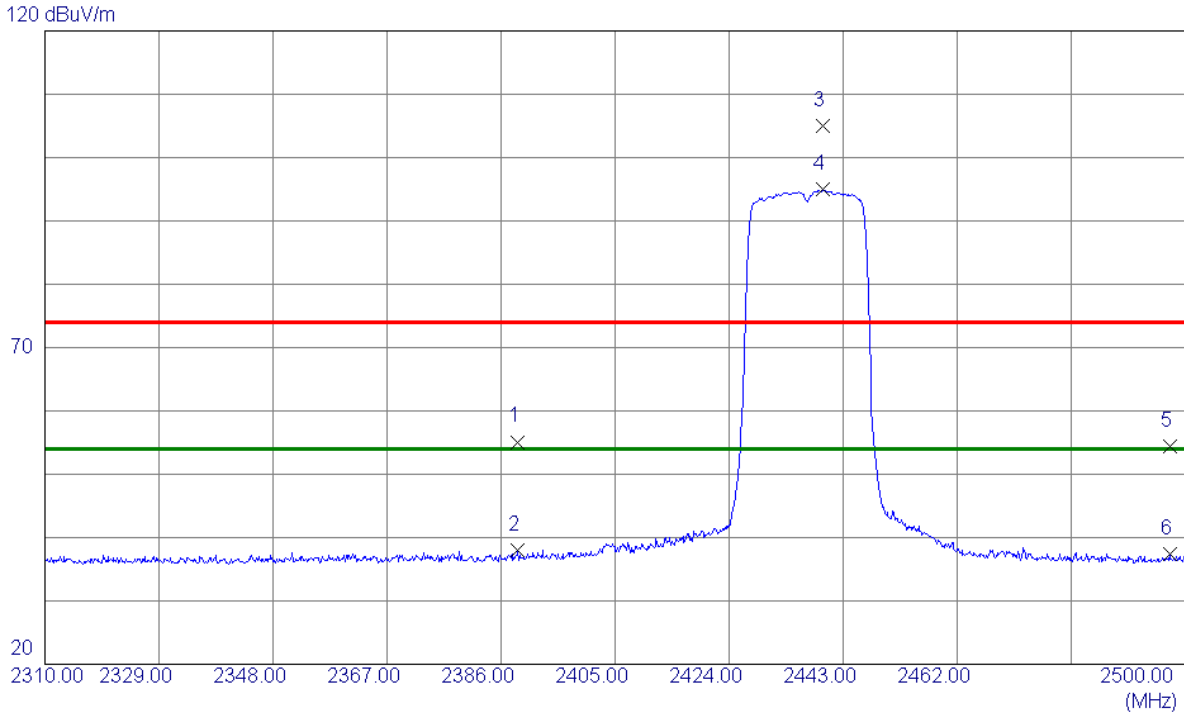


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4500	62.94	-16.91	46.03	74.00	-27.97	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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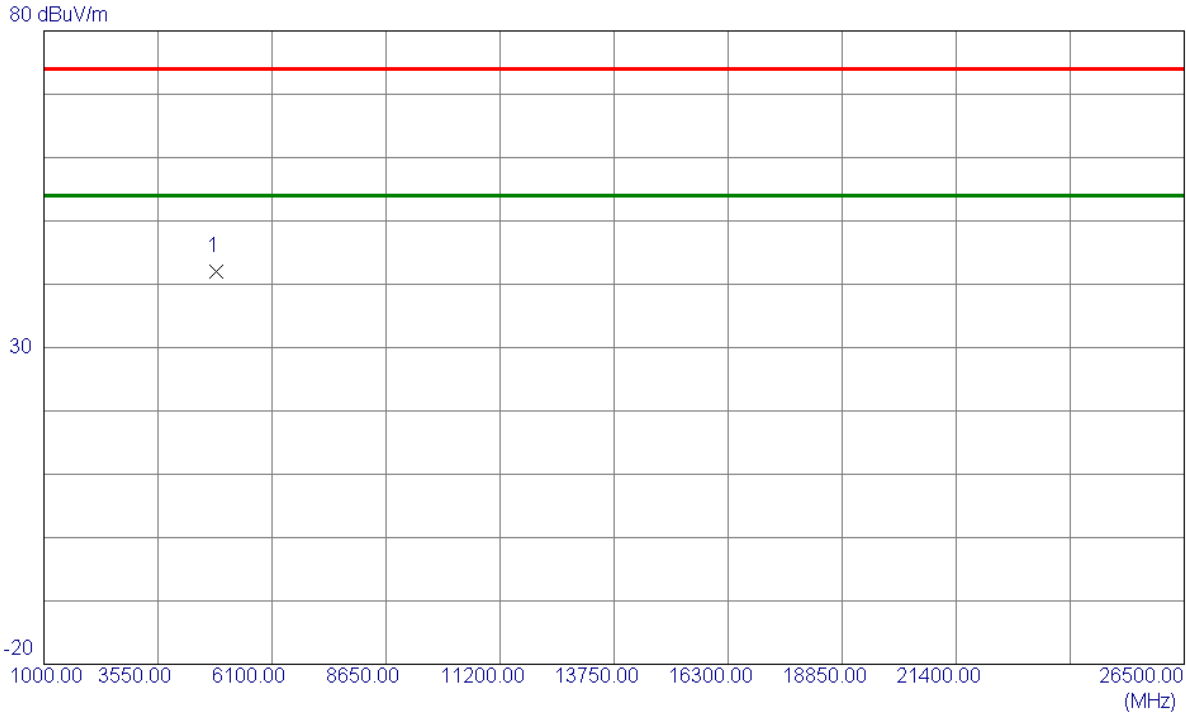


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.8500	23.36	31.74	55.10	74.00	-18.90	Peak	
2	2388.8500	6.34	31.74	38.08	54.00	-15.92	AVG	
3	2439.5800	73.36	31.72	105.08	74.00	31.08	Peak	NO limit
4 *	2439.5800	63.19	31.72	94.91	54.00	40.91	AVG	NO limit
5	2497.4350	22.63	31.71	54.34	74.00	-19.66	Peak	
6	2497.4350	5.68	31.71	37.39	54.00	-16.61	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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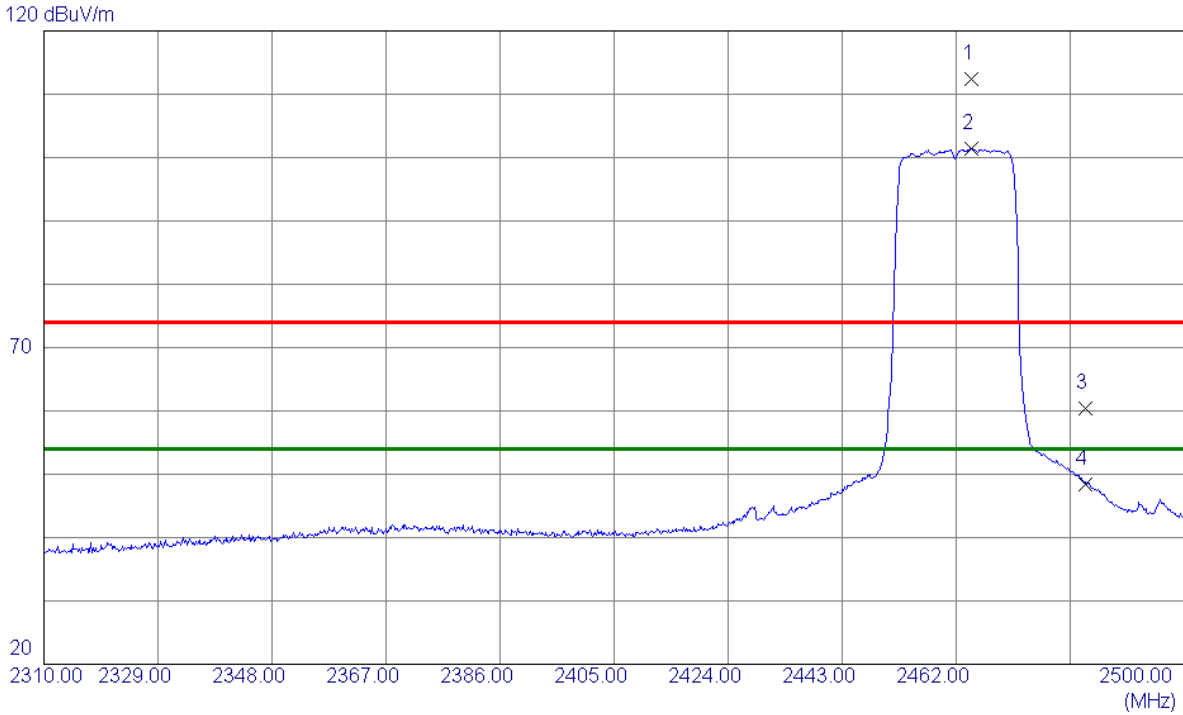


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4864.5250	58.92	-16.92	42.00	74.00	-32.00	Peak	

**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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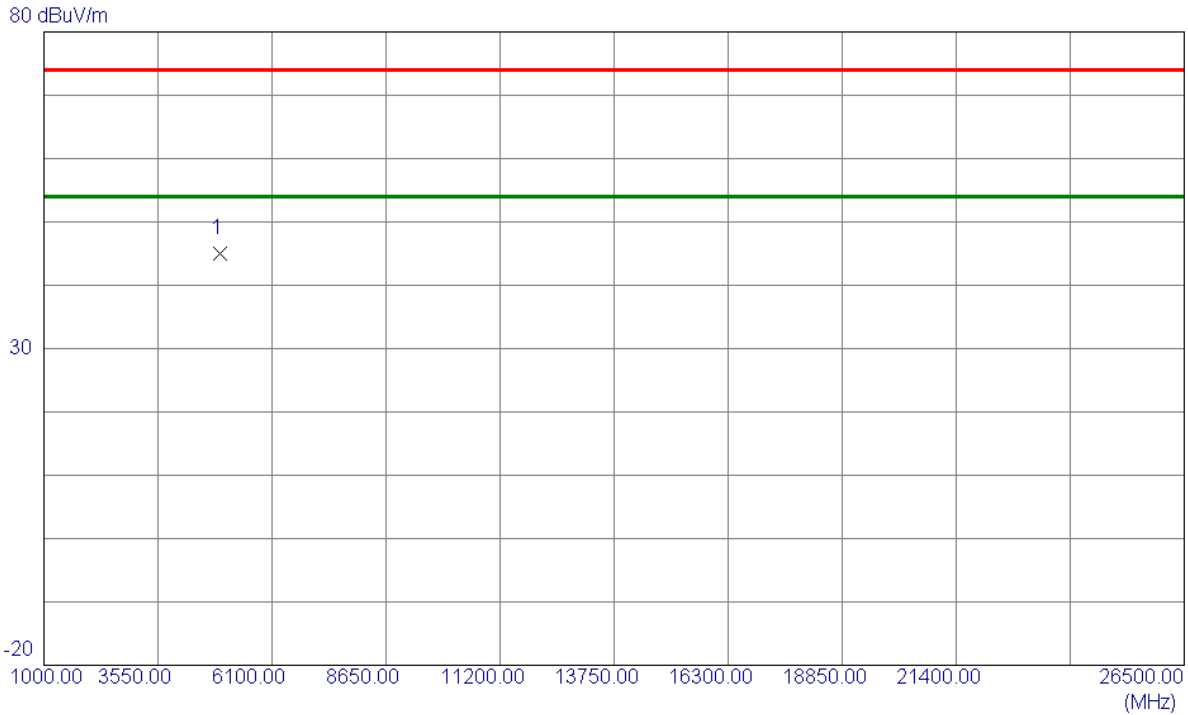
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.4700	80.72	31.71	112.43	74.00	38.43	Peak	NO limit
2 *	2464.4700	69.78	31.71	101.49	54.00	47.49	AVG	NO limit
3	2483.5000	28.77	31.71	60.48	74.00	-13.52	Peak	
4	2483.5000	16.73	31.71	48.44	54.00	-5.56	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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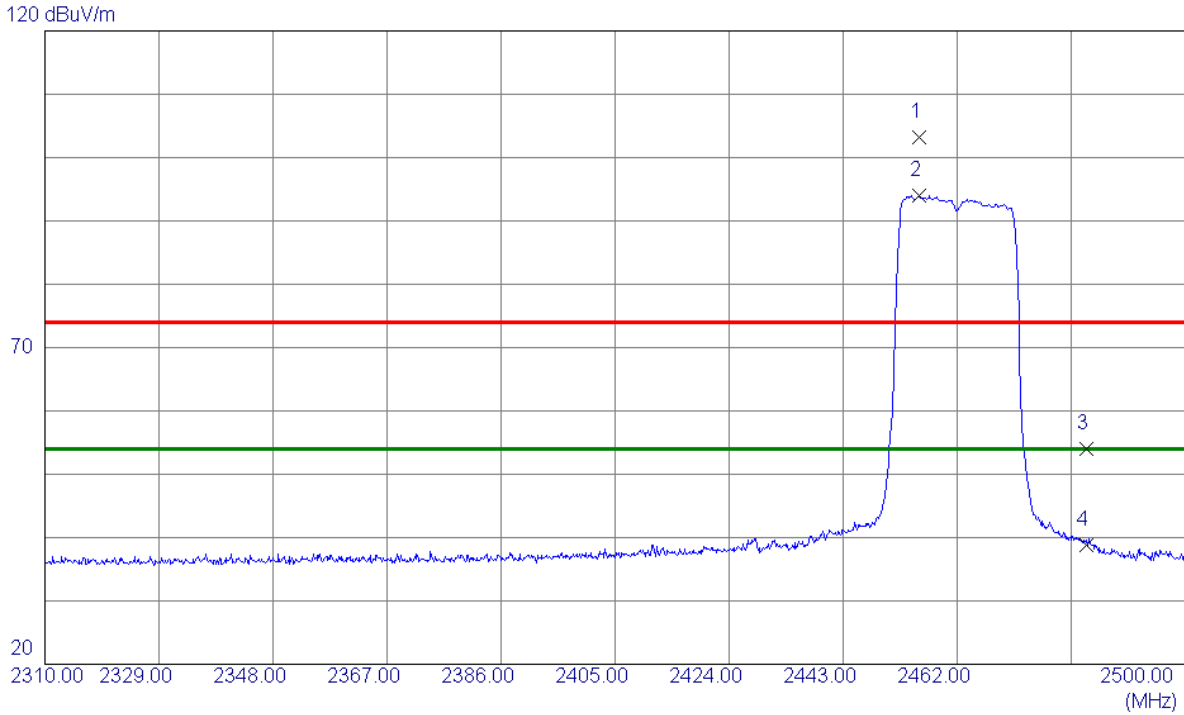


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4930.8250	61.75	-16.75	45.00	74.00	-29.00	Peak	

**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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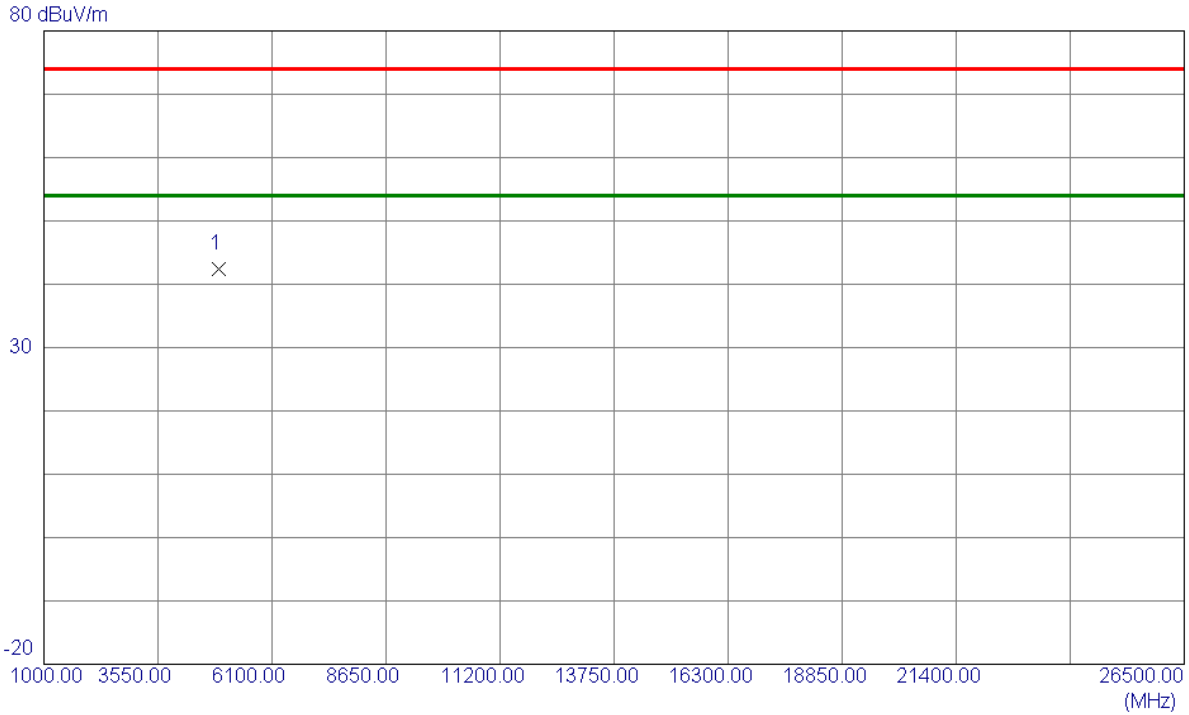


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.6350	71.41	31.71	103.12	74.00	29.12	Peak	NO limit
2 *	2455.6350	62.27	31.71	93.98	54.00	39.98	AVG	NO limit
3	2483.5000	22.38	31.71	54.09	74.00	-19.91	Peak	
4	2483.5000	7.18	31.71	38.89	54.00	-15.11	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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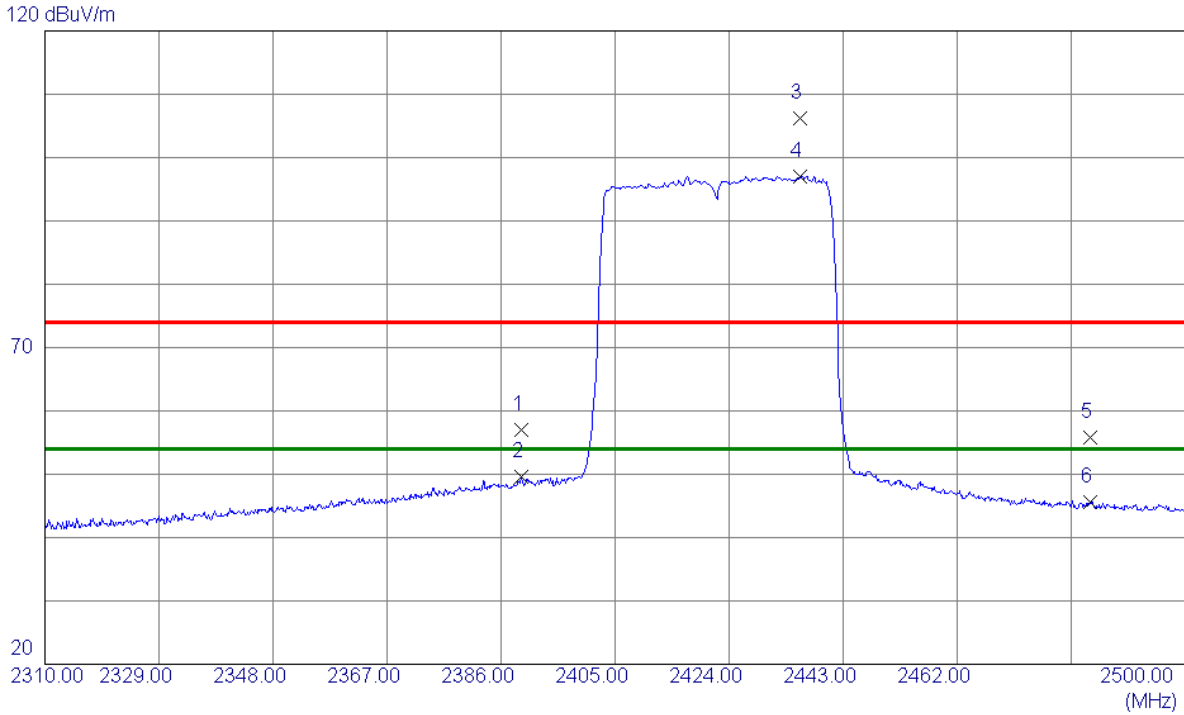


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.9000	59.27	-16.78	42.49	74.00	-31.51	Peak	

**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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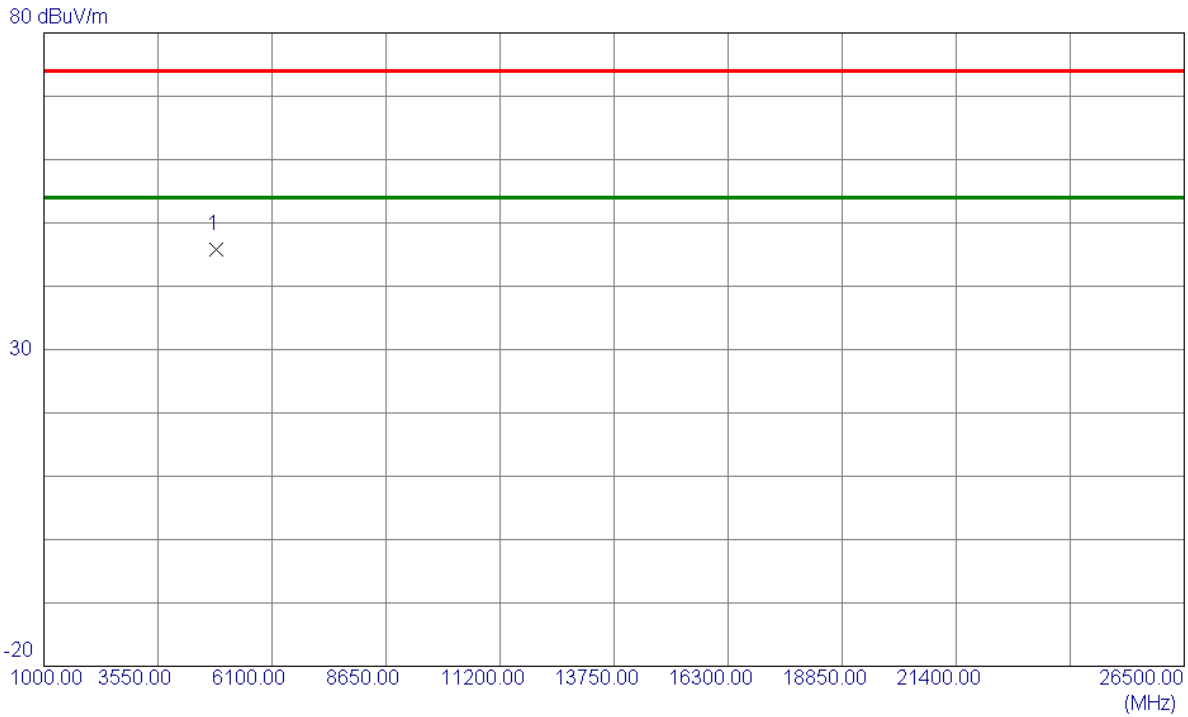


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.4200	25.32	31.74	57.06	74.00	-16.94	Peak	
2	2389.4200	17.89	31.74	49.63	54.00	-4.37	AVG	
3	2435.8750	74.46	31.72	106.18	74.00	32.18	Peak	NO limit
4 *	2435.8750	65.34	31.72	97.06	54.00	43.06	AVG	NO limit
5	2484.2300	24.18	31.71	55.89	74.00	-18.11	Peak	
6	2484.2300	13.84	31.71	45.55	54.00	-8.45	AVG	

**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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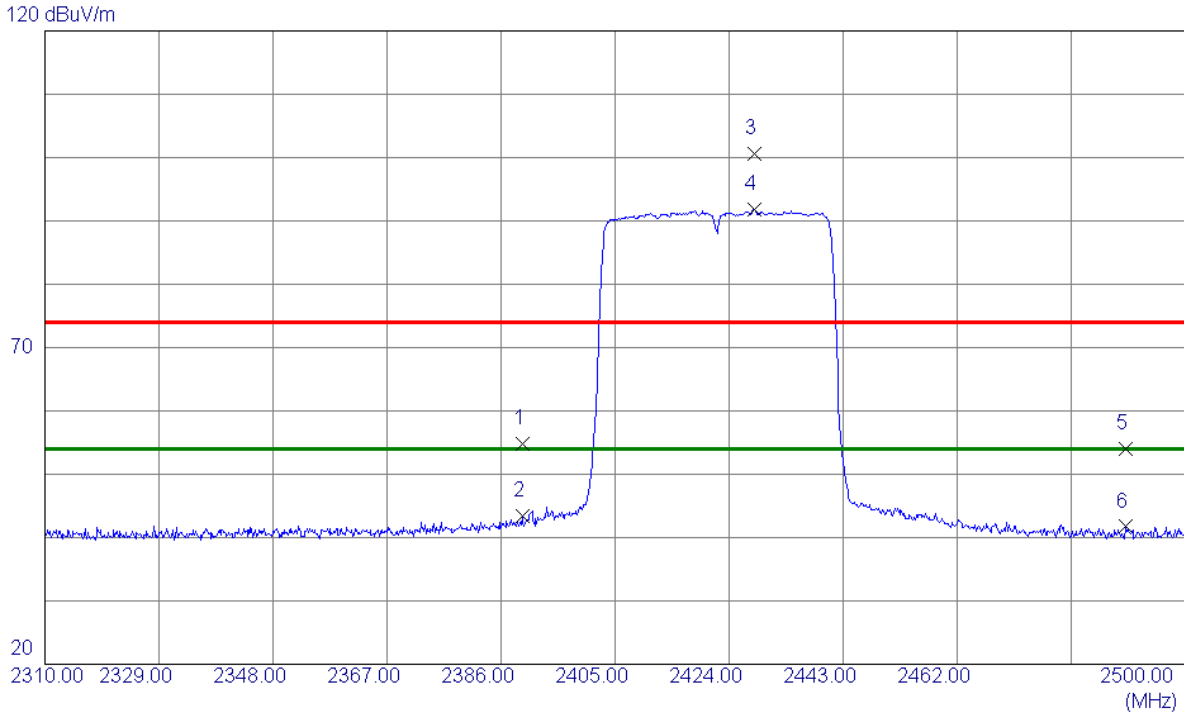


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.1250	62.83	-16.95	45.88	74.00	-28.12	Peak	

**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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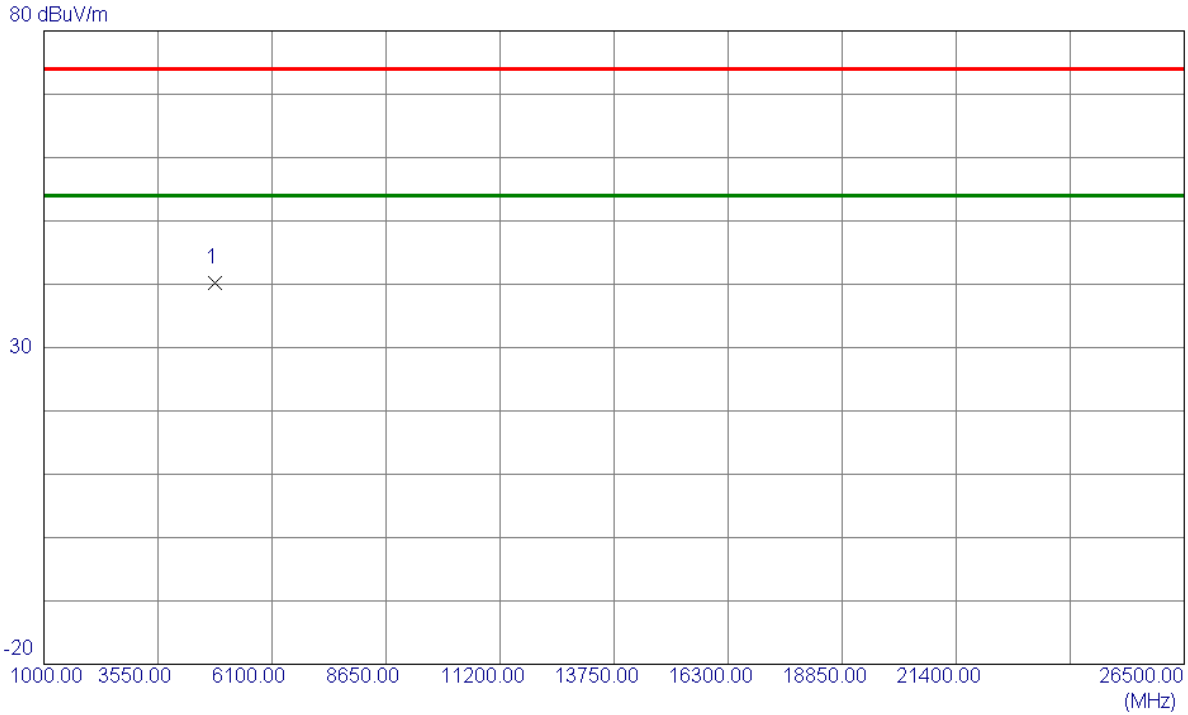


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.5149	23.01	31.74	54.75	74.00	-19.25	Peak	
2	2389.5149	11.68	31.74	43.42	54.00	-10.58	AVG	
3	2428.1800	68.81	31.72	100.53	74.00	26.53	Peak	NO limit
4 *	2428.1800	60.03	31.72	91.75	54.00	37.75	AVG	NO limit
5	2490.0250	22.37	31.71	54.08	74.00	-19.92	Peak	
6	2490.0250	9.99	31.71	41.70	54.00	-12.30	AVG	

**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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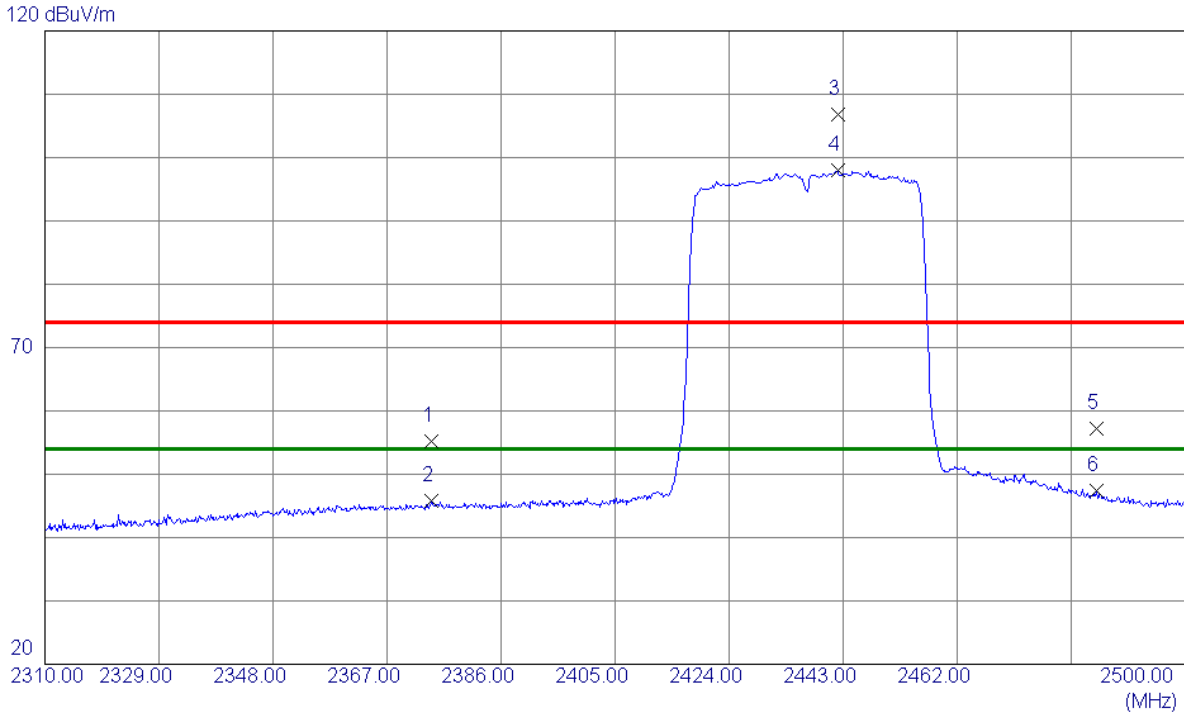


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4836.4750	57.16	-16.96	40.20	74.00	-33.80	Peak	

**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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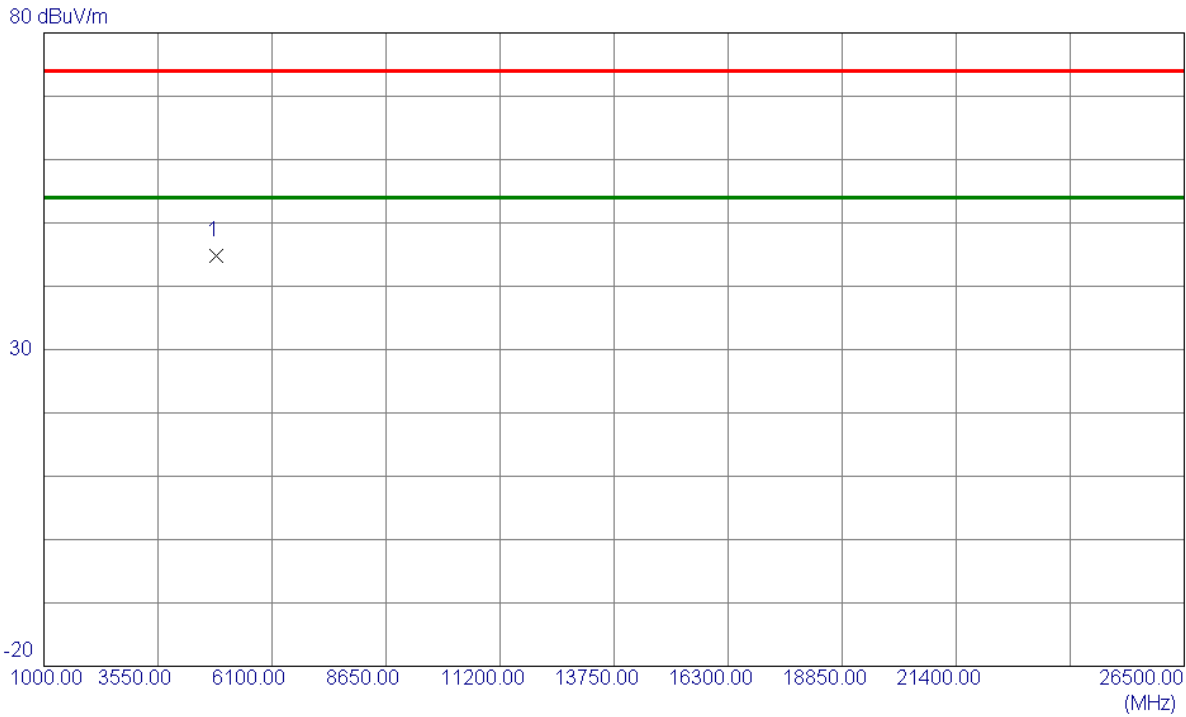
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2374.4100	23.46	31.77	55.23	74.00	-18.77	Peak	
2	2374.4100	14.08	31.77	45.85	54.00	-8.15	AVG	
3	2442.0500	75.05	31.72	106.77	74.00	32.77	Peak	NO limit
4 *	2442.0500	66.26	31.72	97.98	54.00	43.98	AVG	NO limit
5	2485.1800	25.54	31.71	57.25	74.00	-16.75	Peak	
6	2485.1800	15.66	31.71	47.37	54.00	-6.63	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	Vertical
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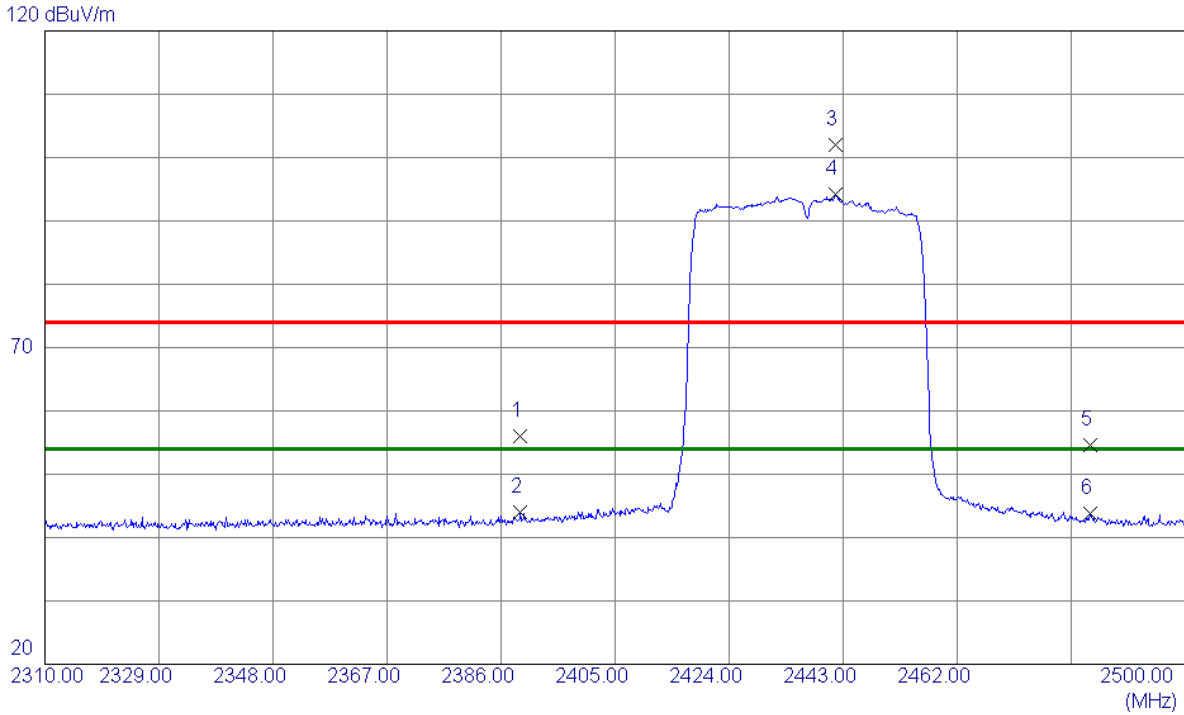


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4863.2500	61.75	-16.92	44.83	74.00	-29.17	Peak	

**REMARKS:**

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

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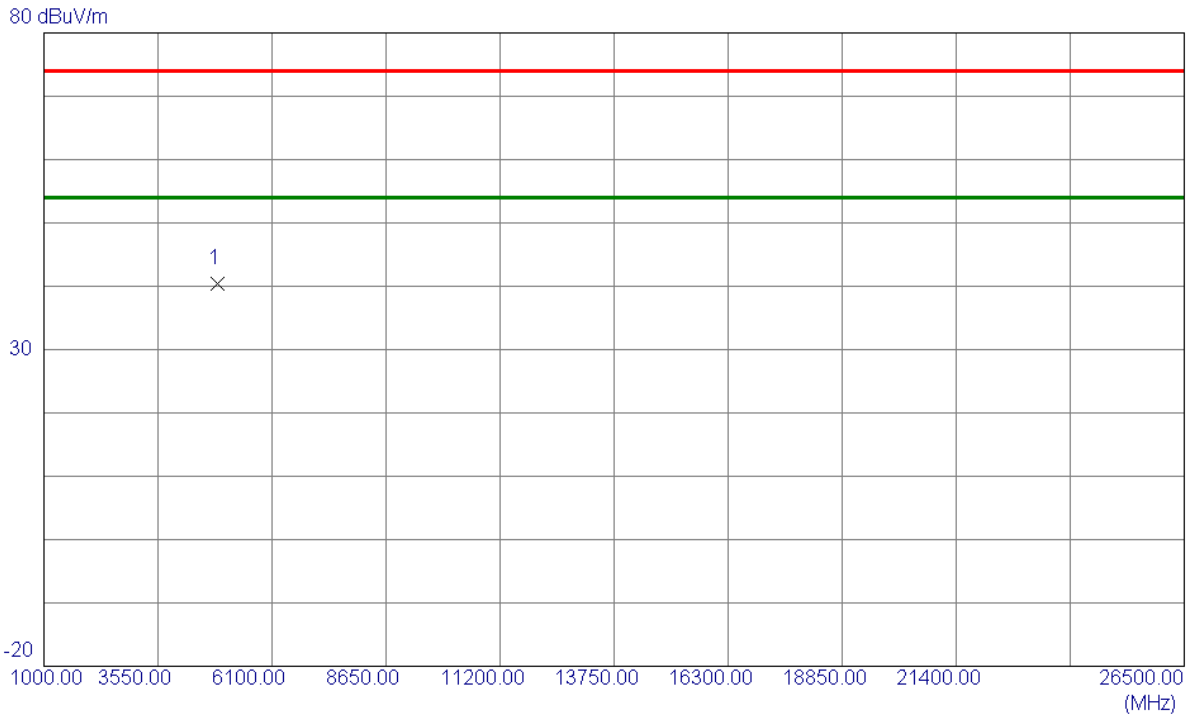


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.2300	24.33	31.74	56.07	74.00	-17.93	Peak	
2	2389.2300	12.20	31.74	43.94	54.00	-10.06	AVG	
3	2441.7649	70.30	31.72	102.02	74.00	28.02	Peak	NO limit
4 *	2441.7649	62.43	31.72	94.15	54.00	40.15	AVG	NO limit
5	2484.2300	22.86	31.71	54.57	74.00	-19.43	Peak	
6	2484.2300	12.00	31.71	43.71	54.00	-10.29	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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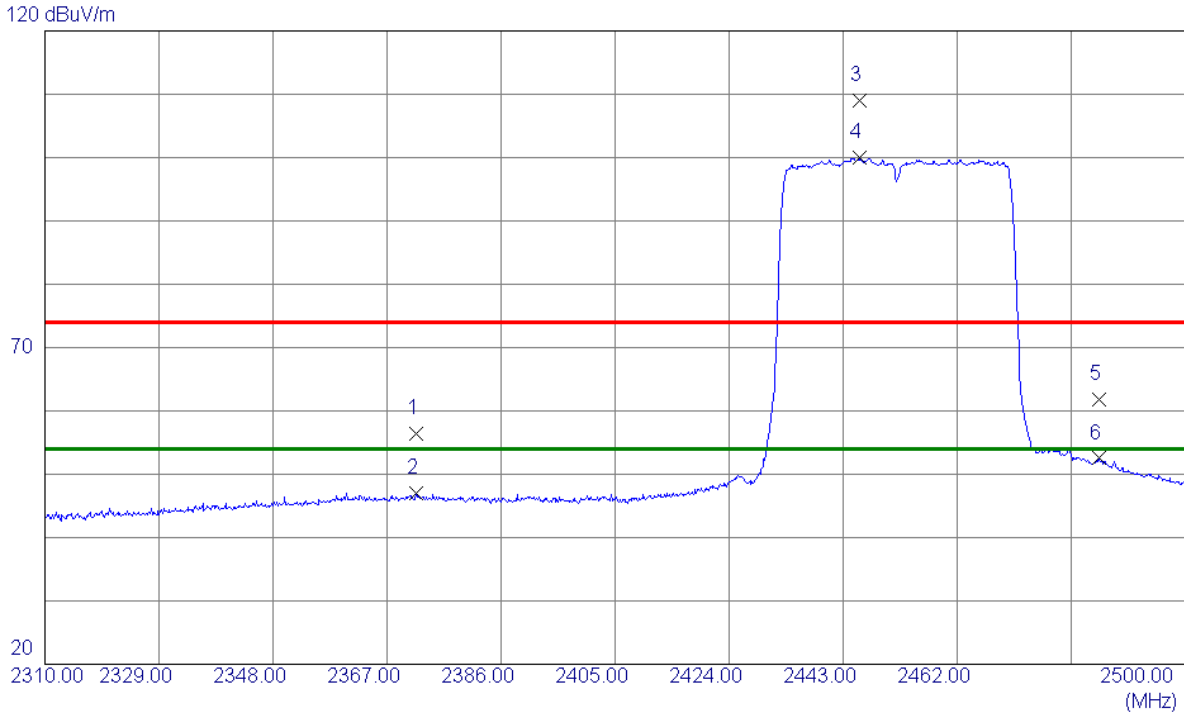


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4868.3500	57.30	-16.91	40.39	74.00	-33.61	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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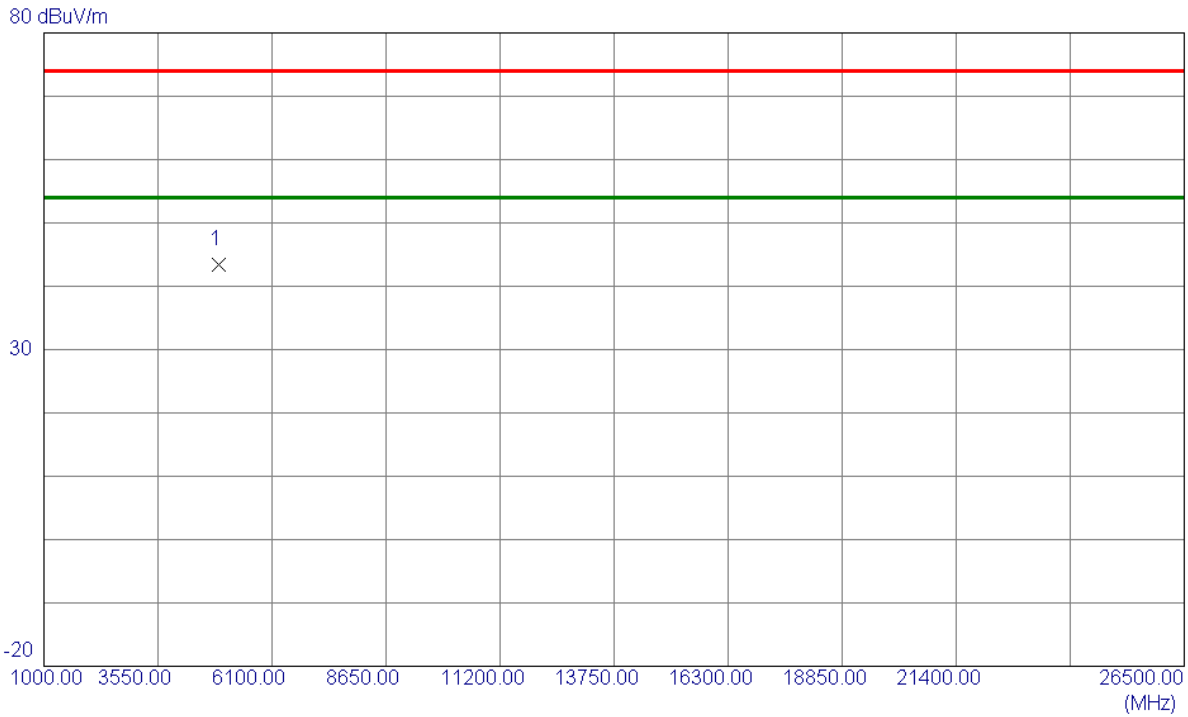


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2371.8450	24.55	31.77	56.32	74.00	-17.68	Peak	
2	2371.8450	15.32	31.77	47.09	54.00	-6.91	AVG	
3	2445.6600	77.30	31.72	109.02	74.00	35.02	Peak	NO limit
4 *	2445.6600	68.26	31.72	99.98	54.00	45.98	AVG	NO limit
5	2485.5600	30.13	31.71	61.84	74.00	-12.16	Peak	
6	2485.5600	20.79	31.71	52.50	54.00	-1.50	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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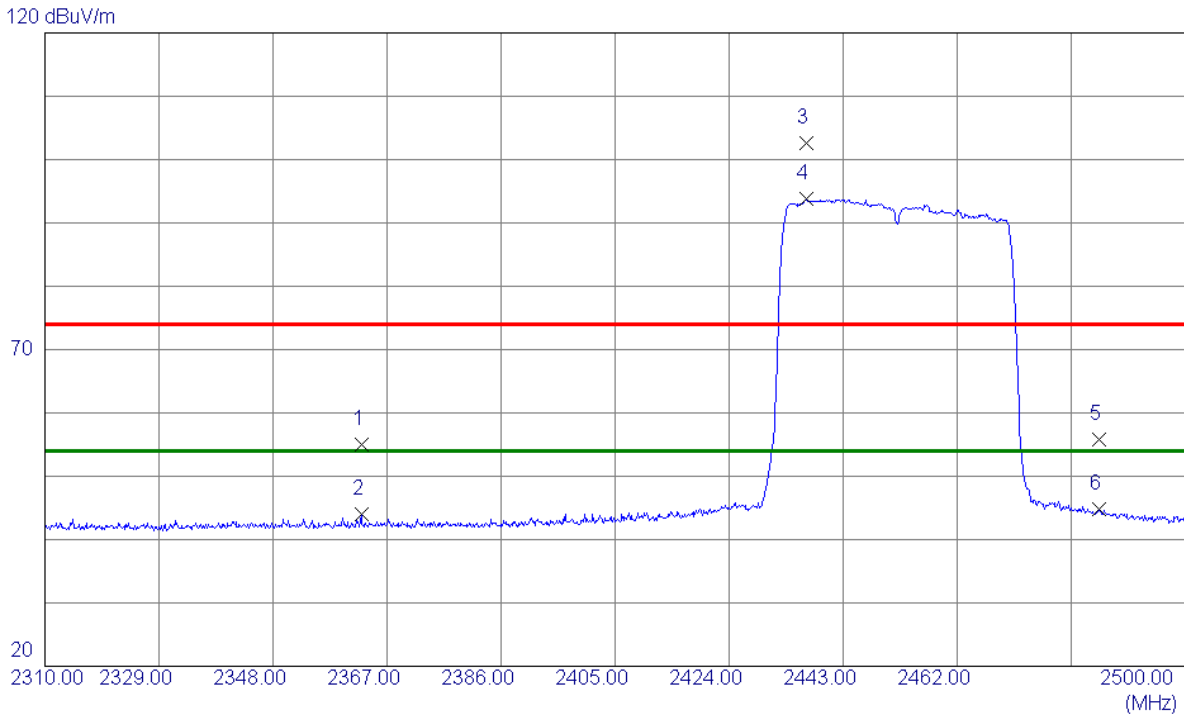


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4900.2250	60.28	-16.86	43.42	74.00	-30.58	Peak	

**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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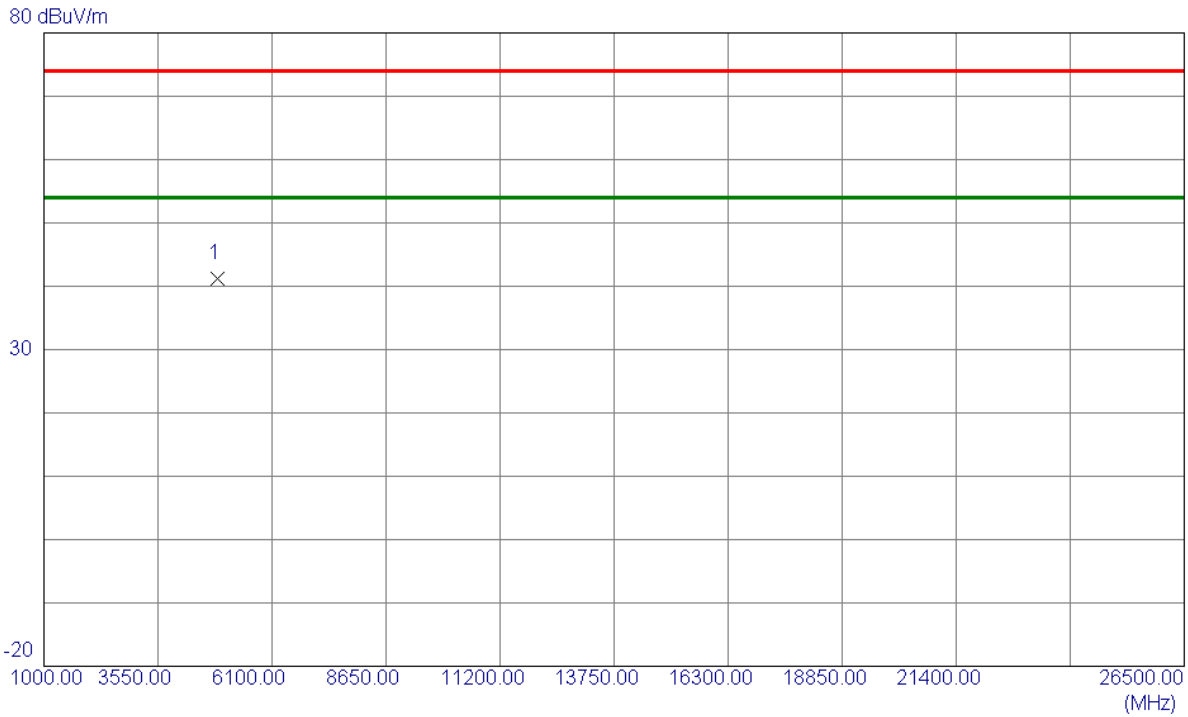


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2362.7250	23.16	31.79	54.95	74.00	-19.05	Peak	
2	2362.7250	12.24	31.79	44.03	54.00	-9.97	AVG	
3	2436.8250	70.91	31.72	102.63	74.00	28.63	Peak	NO limit
4 *	2436.8250	62.00	31.72	93.72	54.00	39.72	AVG	NO limit
5	2485.6550	24.12	31.71	55.83	74.00	-18.17	Peak	
6	2485.6550	13.12	31.71	44.83	54.00	-9.17	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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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4895.1250	58.13	-16.87	41.26	74.00	-32.74	Peak	

**REMARKS:**

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

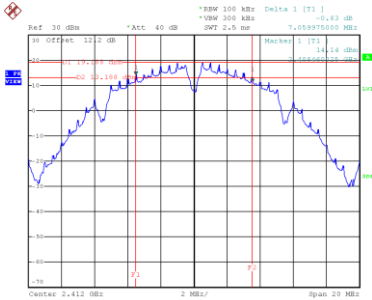
# APPENDIX E - BANDWIDTH



Test Mode	TX B Mode
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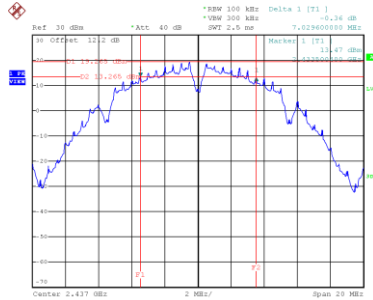
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.060	11.600	0.5	Complies
06	2437	7.030	11.520	0.5	Complies
11	2462	7.060	11.200	0.5	Complies

**CH01**



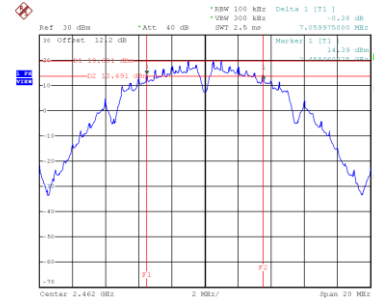
Date: 8 JUN 2021 22:33:33

**CH06**  
6 dB Bandwidth



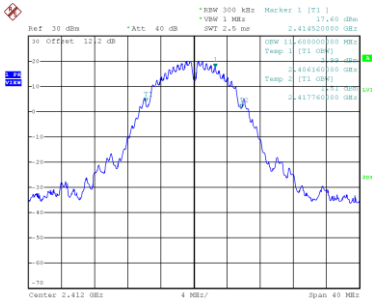
Date: 8 JUN 2021 22:38:39

**CH11**

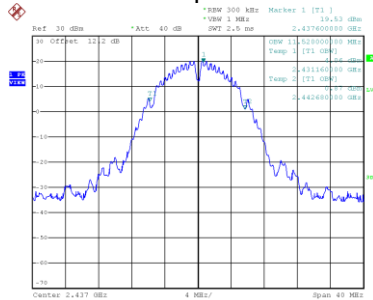


Date: 8 JUN 2021 22:40:29

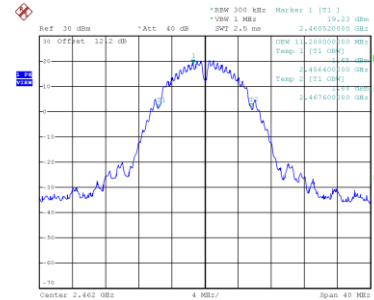
**99 % Occupied Bandwidth**



Date: 8 JUN 2021 22:33:40



Date: 8 JUN 2021 22:38:46

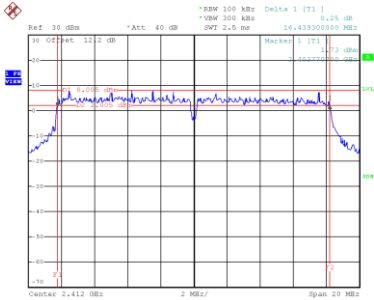


Date: 8 JUN 2021 22:40:36

Test Mode TX G Mode

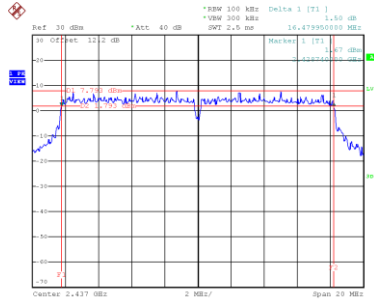
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.439	17.120	0.5	Complies
06	2437	16.480	17.200	0.5	Complies
11	2462	16.420	17.120	0.5	Complies

**CH01**



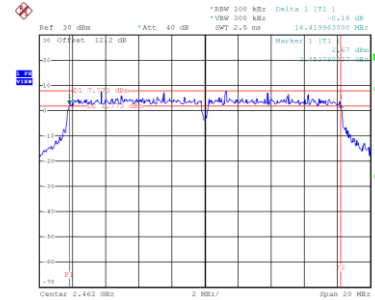
Date: 8 JUN 2021 22:49:05

**CH06**  
6 dB Bandwidth



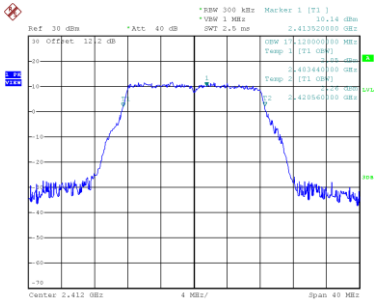
Date: 8 JUN 2021 22:46:25

**CH11**

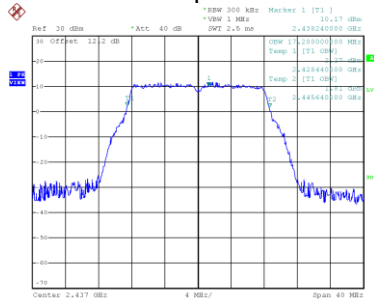


Date: 8 JUN 2021 22:42:32

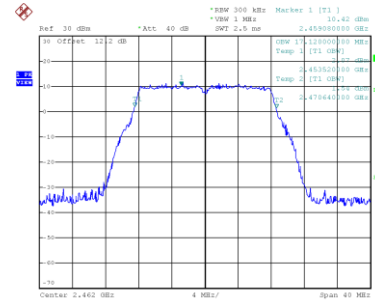
**99 % Occupied Bandwidth**



Date: 8 JUN 2021 22:49:12



Date: 8 JUN 2021 22:46:32

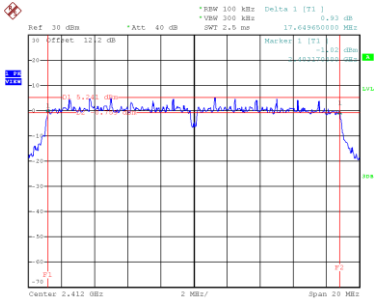


Date: 8 JUN 2021 22:42:38

Test Mode TX N(HT20) Mode

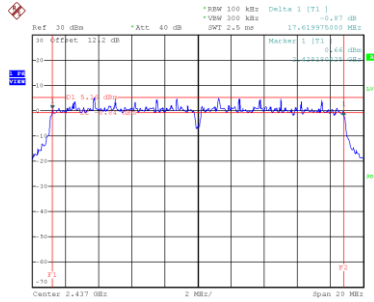
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.650	18.080	0.5	Complies
06	2437	17.620	18.080	0.5	Complies
11	2462	17.680	18.080	0.5	Complies

**CH01**



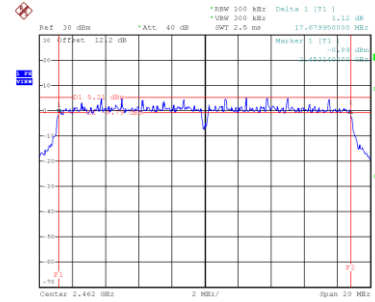
Date: 8.JUN.2021 23:44:29

**CH06**  
6 dB Bandwidth



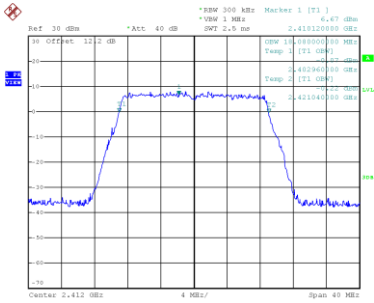
Date: 8.JUN.2021 23:50:01

**CH11**

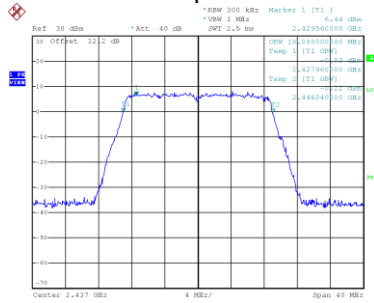


Date: 8.JUN.2021 23:57:22

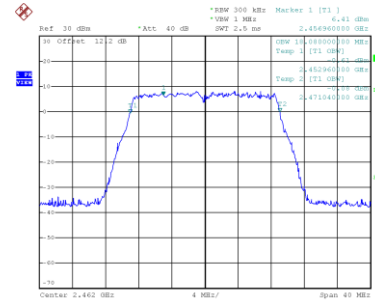
**99 % Occupied Bandwidth**



Date: 8.JUN.2021 23:44:36



Date: 8.JUN.2021 23:50:08



Date: 8.JUN.2021 23:57:29