



# FCC Radio Test Report

## FCC ID: 2BCGWXM730D

This report concerns: **Original Grant**

**Project No.** : 2405G047  
**Equipment** : AX5400 Indoor/Outdoor Whole Home Mesh Wi-Fi 6 System  
**Brand Name** : tp-link  
**Test Model** : Deco XM73-Outdoor  
**Series Model** : N/A  
**Applicant** : TP-LINK CORPORATION PTE. LTD.  
**Address** : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987  
**Manufacturer** : TP-LINK CORPORATION PTE. LTD.  
**Address** : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987  
**Date of Receipt** : May 22, 2024  
**Date of Test** : May 23, 2024 ~ Jun. 24, 2024  
**Issued Date** : Jul. 02, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SSL2024052276 for conducted,  
SSL2024052277 for radiated.  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C

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

**Prepared by** : Grani Zhou  
Grani Zhou  
**Approved by** : Chay Cai  
Chay Cai

Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong,  
People's Republic of China.

Tel: +86-769-8318-3000    Web: [www.newbtl.com](http://www.newbtl.com)    Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL's** laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

**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 . APPLICABLE STANDARDS</b>	<b>7</b>
<b>2 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
2.3 TEST ENVIRONMENT CONDITIONS	9
<b>3 . GENERAL INFORMATION</b>	<b>10</b>
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	13
3.3 PARAMETERS OF TEST SOFTWARE	15
3.4 DUTY CYCLE	16
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	18
3.6 SUPPORT UNITS	18
3.7 CUSTOMER INFORMATION DESCRIPTION	18
<b>4 . AC POWER LINE CONDUCTED EMISSIONS</b>	<b>19</b>
4.1 LIMIT	19
4.2 TEST PROCEDURE	19
4.3 DEVIATION FROM TEST STANDARD	19
4.4 TEST SETUP	20
4.5 EUT OPERATION CONDITIONS	20
4.6 TEST RESULTS	20
<b>5 . RADIATED EMISSIONS</b>	<b>21</b>
5.1 LIMIT	21
5.2 TEST PROCEDURE	22
5.3 DEVIATION FROM TEST STANDARD	22
5.4 TEST SETUP	23
5.5 EUT OPERATION CONDITIONS	25
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	25
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	25
5.8 TEST RESULTS - ABOVE 1000 MHZ	25
<b>6 . BANDWIDTH</b>	<b>26</b>
6.1 LIMIT	26
6.2 TEST PROCEDURE	26

<b>Table of Contents</b>	<b>Page</b>
6.3 DEVIATION FROM STANDARD	26
6.4 TEST SETUP	26
6.5 EUT OPERATION CONDITIONS	26
6.6 TEST RESULTS	26
<b>7 . MAXIMUM OUTPUT POWER</b>	<b>27</b>
7.1 LIMIT	27
7.2 TEST PROCEDURE	27
7.3 DEVIATION FROM STANDARD	27
7.4 TEST SETUP	27
7.5 EUT OPERATION CONDITIONS	27
7.6 TEST RESULTS	27
<b>8 . CONDUCTED SPURIOUS EMISSIONS</b>	<b>28</b>
8.1 LIMIT	28
8.2 TEST PROCEDURE	28
8.3 DEVIATION FROM STANDARD	28
8.4 TEST SETUP	28
8.5 EUT OPERATION CONDITIONS	28
8.6 TEST RESULTS	28
<b>9 . POWER SPECTRAL DENSITY</b>	<b>29</b>
9.1 LIMIT	29
9.2 TEST PROCEDURE	29
9.3 DEVIATION FROM STANDARD	29
9.4 TEST SETUP	29
9.5 EUT OPERATION CONDITIONS	29
9.6 TEST RESULTS	29
<b>10 . MEASUREMENT INSTRUMENTS LIST</b>	<b>30</b>
<b>11 . EUT TEST PHOTO</b>	<b>32</b>
<b>APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS</b>	<b>38</b>
<b>APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ</b>	<b>41</b>
<b>APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ</b>	<b>46</b>
<b>APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ</b>	<b>49</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>112</b>
<b>APPENDIX F - MAXIMUM OUTPUT POWER</b>	<b>119</b>

**Table of Contents****Page****APPENDIX G - CONDUCTED SPURIOUS EMISSIONS****130****APPENDIX H - POWER SPECTRAL DENSITY****143**

**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2405G047	R00	Original Report.	Jul. 02, 2024	Valid

## 1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

## 2. 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	<b>Note(2)</b>

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.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report: No.3, Jinshagang 1st Road, Dalang, Dongguan City, Guangdong, People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

## 2.2 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 95.45% confidence level (based on a coverage factor ( $k=2$ ))

The BTL measurement uncertainty as below table:

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

Test Site	Method	Measurement Frequency Range	$U$ ,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

### B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	$U$ ,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U$ ,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	$U$ ,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	$U$ ,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36



## C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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

**2.3 TEST ENVIRONMENT CONDITIONS**

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	62%	AC 120V/60Hz	Hayden Chen	May 28, 2024
Radiated Emissions -9kHz to 30 MHz	21°C	41%	AC 120V/60Hz	Hayden Chen	May 28, 2024
Radiated Emissions -30MHz to 1000MHz	22°C	58%	AC 120V/60Hz	Allen Tong	Jun. 14, 2024
Radiated Emissions -Above 1000MHz	22°C	58%	AC 120V/60Hz	Allen Tong	Jun. 14, 2024
Bandwidth	24°C	58%	AC 120V/60Hz	Parker Yang	Jun. 11, 2024
Maximum Output Power	22°C	53%	AC 120V/60Hz	Oliver Wang	Jun. 14, 2024
Conducted Spurious Emissions	24°C	58%	AC 120V/60Hz	Parker Yang	Jun. 11, 2024
Power Spectral Density	24°C	58%	AC 120V/60Hz	Parker Yang	Jun. 11, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX5400 Indoor/Outdoor Whole Home Mesh Wi-Fi 6 System
Brand Name	tp-link
Test Model	Deco XM73-Outdoor
Series Model	N/A
Model Difference(s)	N/A
Software Version	20240305-rel41966
Hardware Version	V1.0
Power Source	1# AC Mains. 2# DC Voltage supplied from PoE adapter.(Support unit)
Power Rating	1# 100-240V~50/60Hz 0.5A 2# 802.3at PoE: 42.5-57V ---0.6A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE vht: 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 vht: up to 400 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power Non Beamforming	IEEE 802.11b: 29.75 dBm (0.9441 W)
Maximum Output Power Beamforming	IEEE 802.11ax(HE20): 28.51 dBm (0.7096 W)

Note:

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

#### 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE vht20, IEEE 802.11ax(HE20)							
CH03 - CH09 for IEEE 802.11n(HT40), IEEE vht40, 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.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	TP-LINK CORPORATION PTE. LTD.	3101505462	Dipole	ipex	1.9	Horizontal
2	TP-LINK CORPORATION PTE. LTD.	3101506968	Dipole	ipex	1.9	
3	TP-LINK CORPORATION PTE. LTD.	3101505464	Dipole	ipex	1.5	Vertical
4	TP-LINK CORPORATION PTE. LTD.	3101505465	Dipole	ipex	1.5	

Note:

- 1) This EUT supports CDD, the antennas Directional gain which declared by customer is 4.7dBi.
- 2) Beamforming Gain: 3dB, that is Directional gain=1.9+3=4.9dBi.
- 3) All antennas had been pre-tested and found that Horizontal antennas were the worst case.

## 4. Table for Antenna Configuration:

Non Beamforming:

Operating Mode	TX Mode	2TX
IEEE 802.11b		V(Ant. 1 + Ant. 2)
IEEE 802.11g		V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)		V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		V(Ant. 1 + Ant. 2)
IEEE vht20		V(Ant. 1 + Ant. 2)
IEEE vht40		V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)		V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)		V(Ant. 1 + Ant. 2)

## Beamforming:

Operating Mode	TX Mode	2TX
IEEE 802.11n(HT20)		V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		V(Ant. 1 + Ant. 2)
IEEE vht20		V(Ant. 1 + Ant. 2)
IEEE vht40		V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)		V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)		V(Ant. 1 + Ant. 2)

### 3.2 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 B 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 B Mode Channel 11

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 7	TX B Mode Channel 11

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

**Maximum Output Power test\_Non Beamforming**

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

**Maximum Output Power test\_Beamforming**

Final Test Mode	Description
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

**Conducted test\_Non Beamforming**

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 IEEE 802.11b 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) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (7) For AC power line conducted emissions and radiated emissions below 1 GHz test, AC supply and PoE supply had been evaluated. The worst case is AC supply and recorded
- (8) HT20/HT40 covers VHT20/VHT40, due to same modulation. The power setting for 802.11ac VHT20 and VHT40 are the same or lower than 802.11n HT20 and HT40.
- (9) For radiated emission, the Vertical antennas and Horizontal antennas are evaluated, the worst case is Horizontal antennas and recorded.

**3.3 PARAMETERS OF TEST SOFTWARE**
**Non Beamforming**

Test Software Version	Deco XM73-Outdoor 1.26_testtree.cxtt		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	25	26	26.5
IEEE 802.11g	22	24.5	24
IEEE 802.11n(HT20)	20.5	25	24
IEEE 802.11ax(HE20)	20.5	25	25.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	22	24.5	20.5
IEEE 802.11ax(HE40)	19	25	22

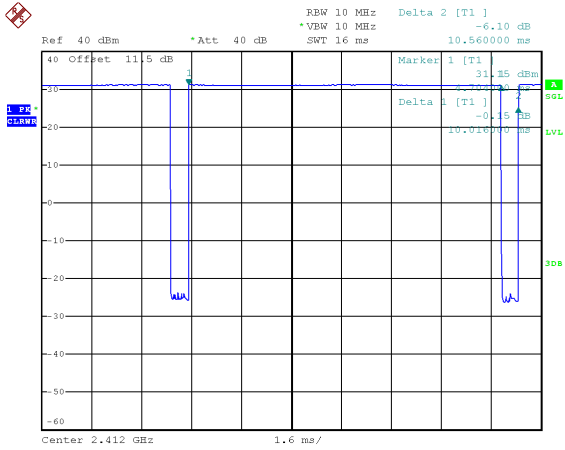
**Beamforming**

Test Software Version	Deco XM73-Outdoor 1.26_testtree.cxtt		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	20	24.5	23.5
IEEE 802.11ax(HE20)	20	24.5	25
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	21.5	24	20
IEEE 802.11ax(HE40)	18.5	24.5	21.5

### 3.4 DUTY CYCLE

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

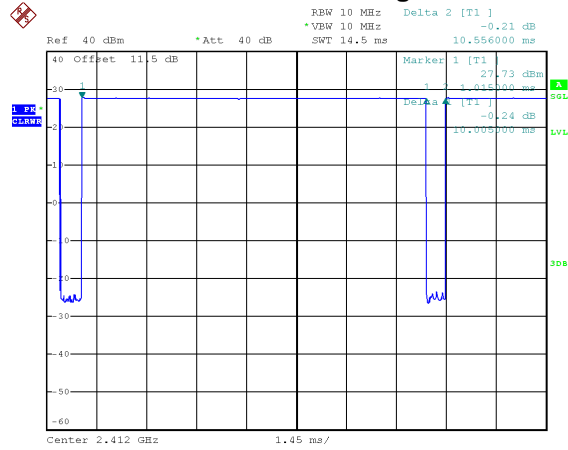
**IEEE 802.11b**



Date: 11.JUN.2024 15:39:51

Duty cycle =  $10.016 \text{ ms} / 10.560 \text{ ms} = 94.85\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.23$

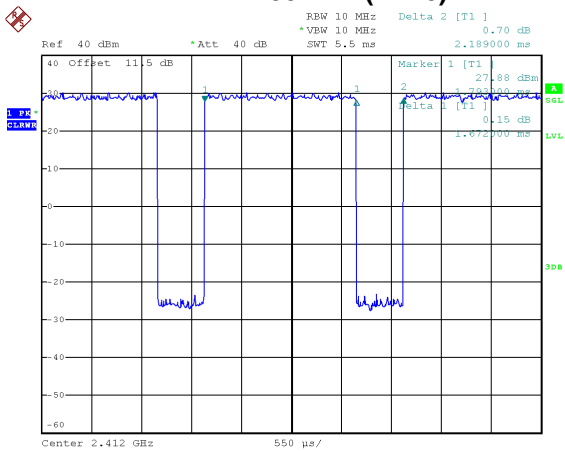
**IEEE 802.11g**



Date: 11.JUN.2024 15:42:25

Duty cycle =  $10.005 \text{ ms} / 10.556 \text{ ms} = 94.78\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.23$

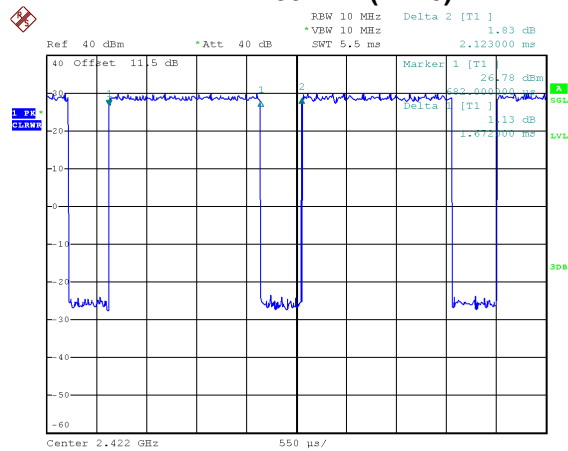
**IEEE 802.11n(HT20)**



Date: 11.JUN.2024 15:43:14

Duty cycle =  $1.672 \text{ ms} / 2.189 \text{ ms} = 76.38\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 1.17$

**IEEE 802.11n(HT40)**

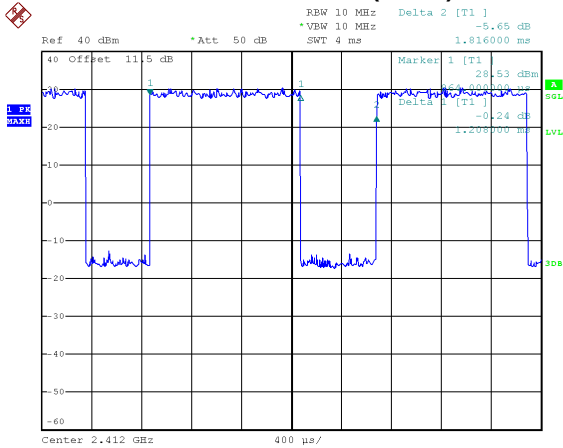


Date: 11.JUN.2024 15:43:53

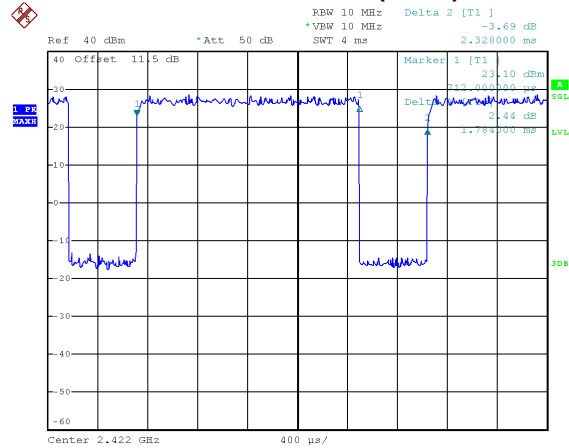
Duty cycle =  $1.672 \text{ ms} / 2.123 \text{ ms} = 78.76\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 1.04$



## IEEE 802.11ax(HE20)



## IEEE 802.11ax(HE40)



Date: 11.JUN.2024 15:47:14

Date: 11.JUN.2024 15:48:37

Duty cycle = 1.208 ms / 1.816 ms = 66.52%  
 Duty Factor = 10 log(1/Duty cycle) = 1.77

Duty cycle = 1.784 ms / 2.328 ms = 76.63%  
 Duty Factor = 10 log(1/Duty cycle) = 1.16

**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 100 Hz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 100 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 598 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 598 Hz.

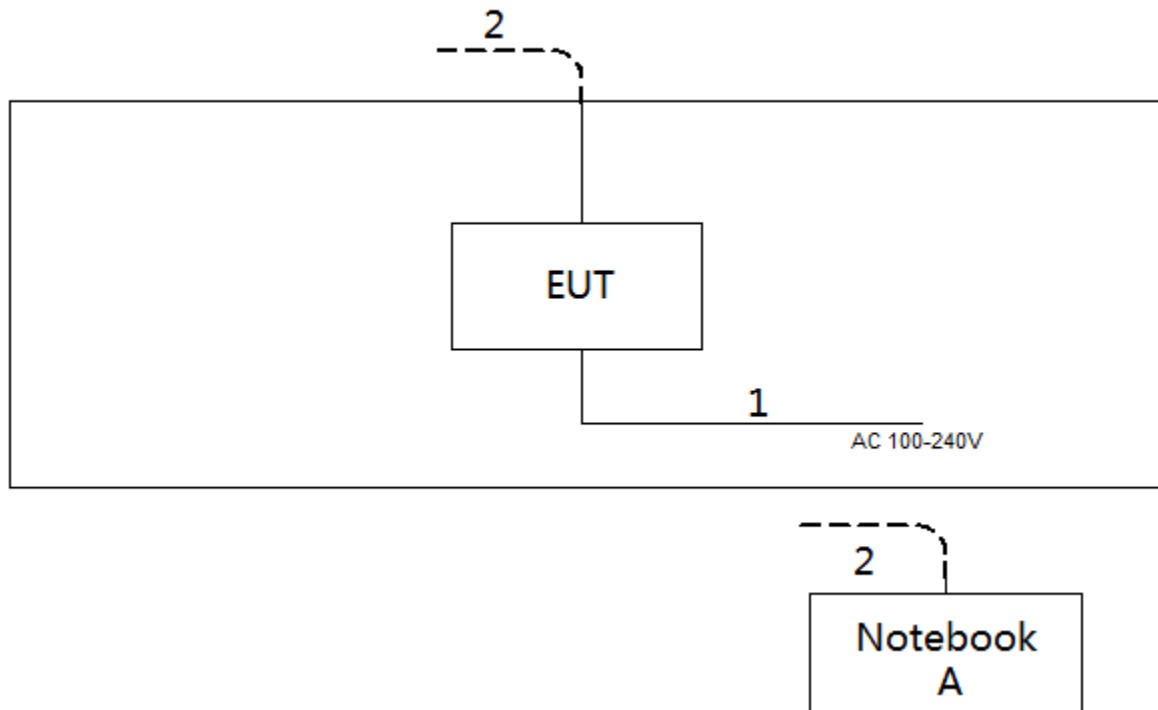
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 828 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 561 Hz.

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



### 3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	14SER5 3500	N/A

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

### 3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

## 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 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.

### 4.2 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.

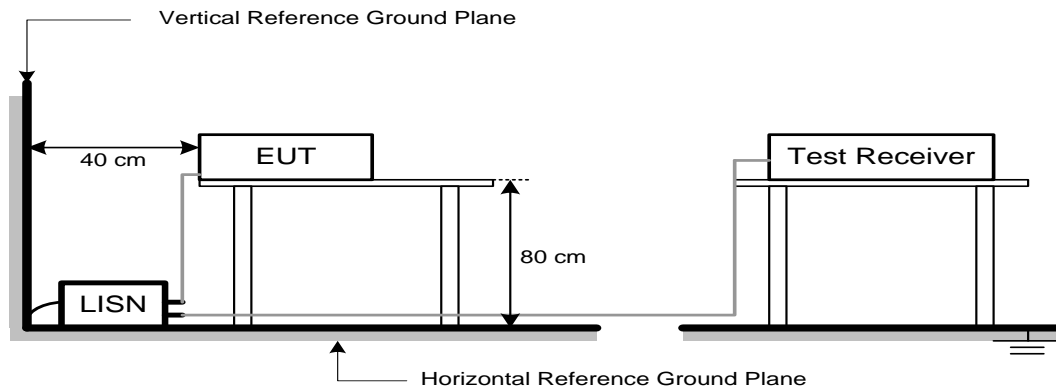
The following table is the setting of the receiver:

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

### 4.3 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4 TEST SETUP



#### 4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS

Please refer to the APPENDIX A.

## 5. RADIATED EMISSIONS

### 5.1 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)	Band edge/ Harmonic at 3m (dB $\mu$ V/m)		Harmonic at 1m (dB $\mu$ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

#### 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 (dB $\mu$ V/m)=20log Emission level (uV/m).
- (4)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$$20 \log (d_{\text{limit}}/d_{\text{measure}}) = 20 \log (3/1) = 9.5 \text{ dB.}$$

## 5.2 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 or 1 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

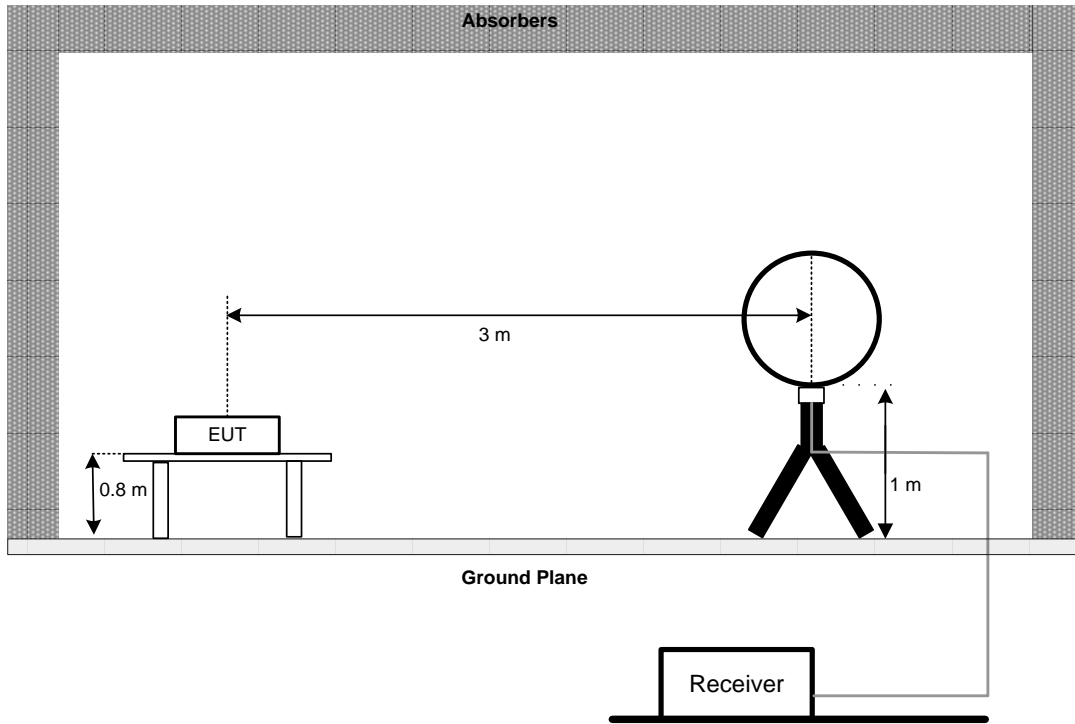
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

## 5.3 DEVIATION FROM TEST STANDARD

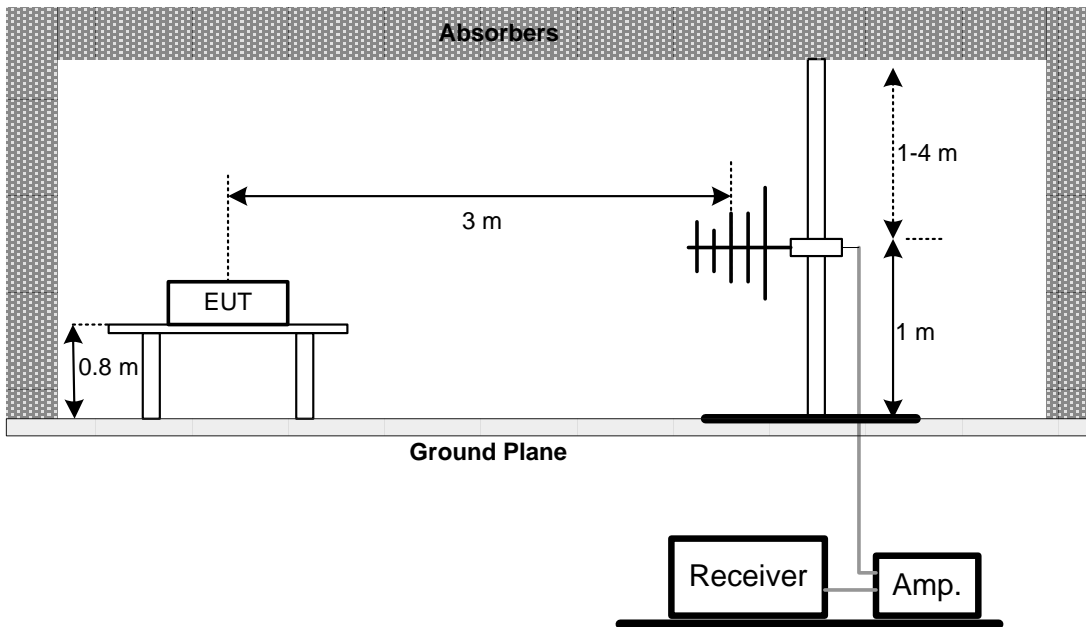
No deviation.

**5.4 TEST SETUP**

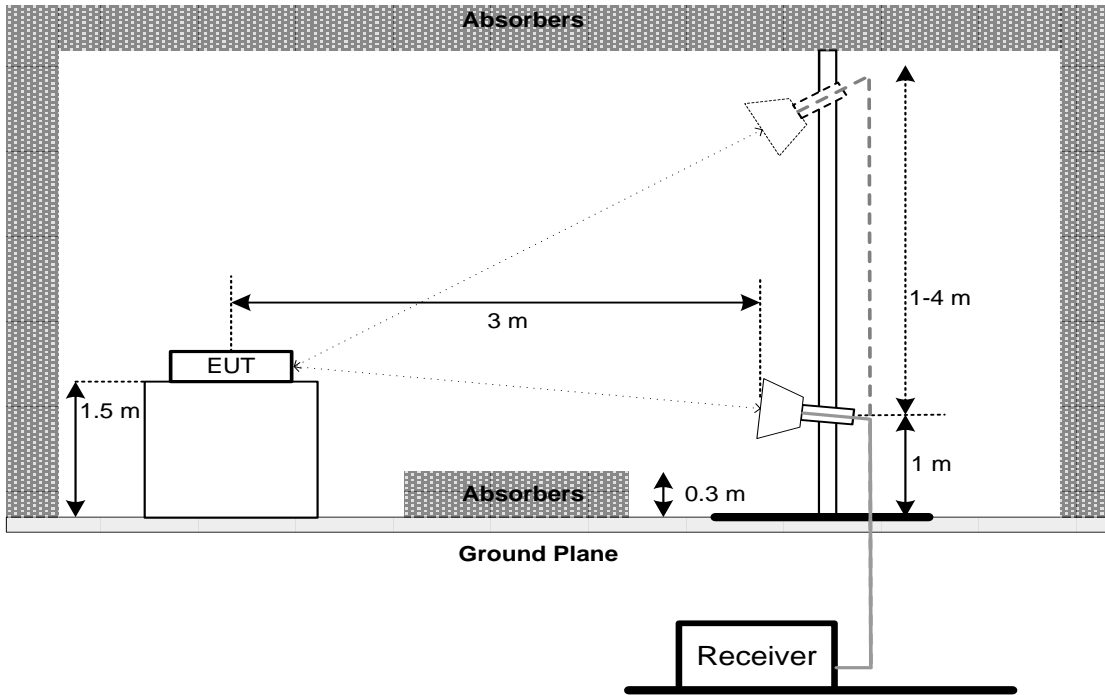
**9 kHz to 30 MHz**



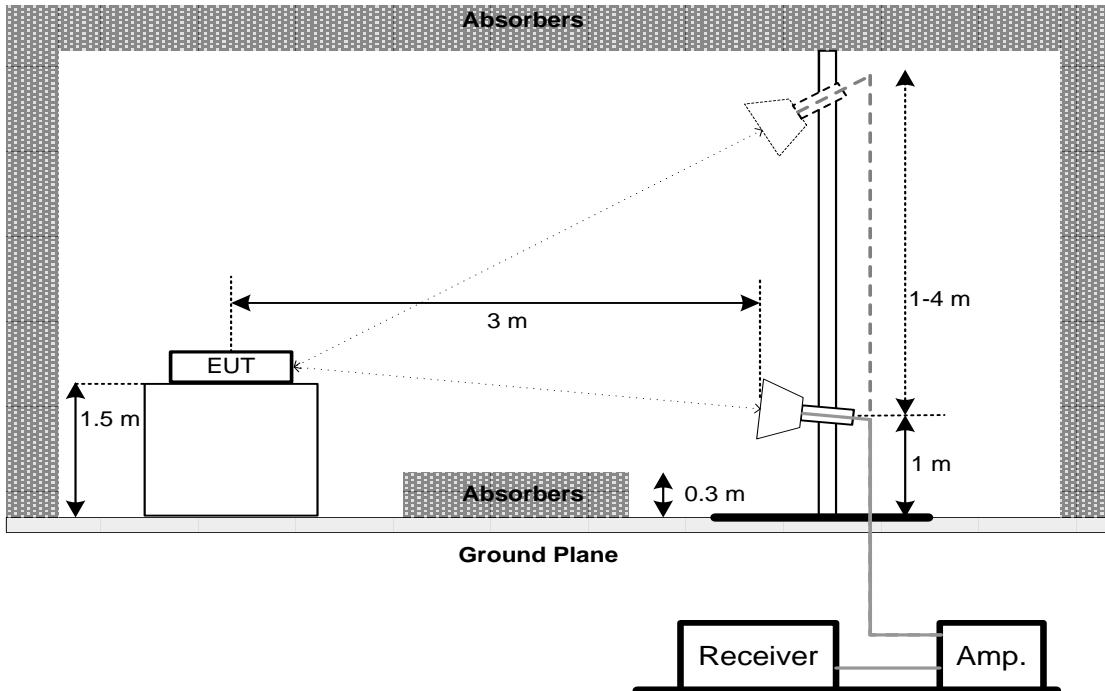
**30 MHz to 1 GHz**



**Above 1 GHz  
Band edge**

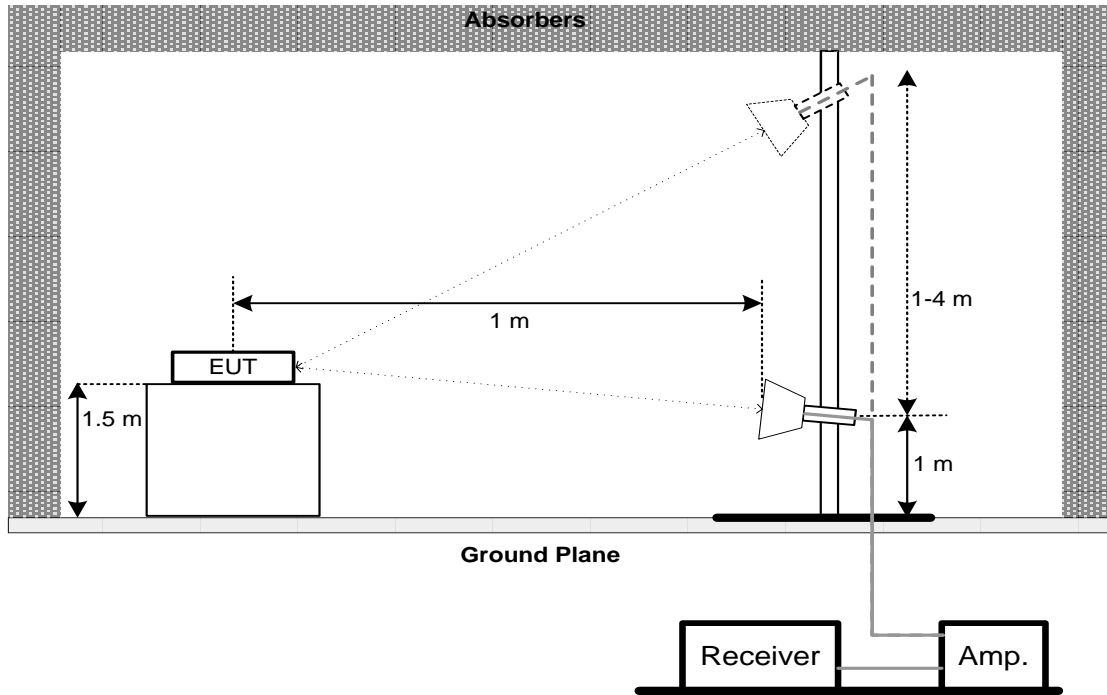


**Harmonic(1 GHz to 18 GHz)**





### Harmonic(Above 18 GHz)



#### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.6 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.

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

Please refer to the APPENDIX C.

#### 5.8 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.

## 6. BANDWIDTH

### 6.1 LIMIT

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

### 6.2 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

### 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 E.

## 7. MAXIMUM OUTPUT POWER

### 7.1 LIMIT

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

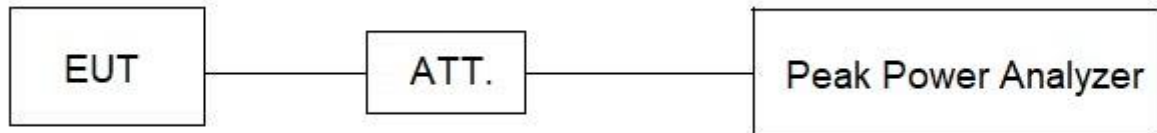
### 7.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 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 F.

## 8. CONDUCTED SPURIOUS EMISSIONS

### 8.1 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.

### 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
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 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 G.

## 9. POWER SPECTRAL DENSITY

### 9.1 LIMIT

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

### 9.2 TEST PROCEDURE

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

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

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 9.6 TEST RESULTS

Please refer to the APPENDIX H.

**10. MEASUREMENT INSTRUMENTS LIST**

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Nov. 27, 2024

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 10, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980863	Apr. 07, 2025
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jul. 04, 2024
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jul. 04, 2024
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jul. 04, 2024
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	May 31, 2025
4	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 20, 2025
5	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Aug. 08, 2024
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 10, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Filter	STI	STI15-9912	N/A	May 31, 2025
15	Positioning Controller	MF	MF-7802	N/A	N/A
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
4	DC Block	N/A	N/A	N/A	N/A
5	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024

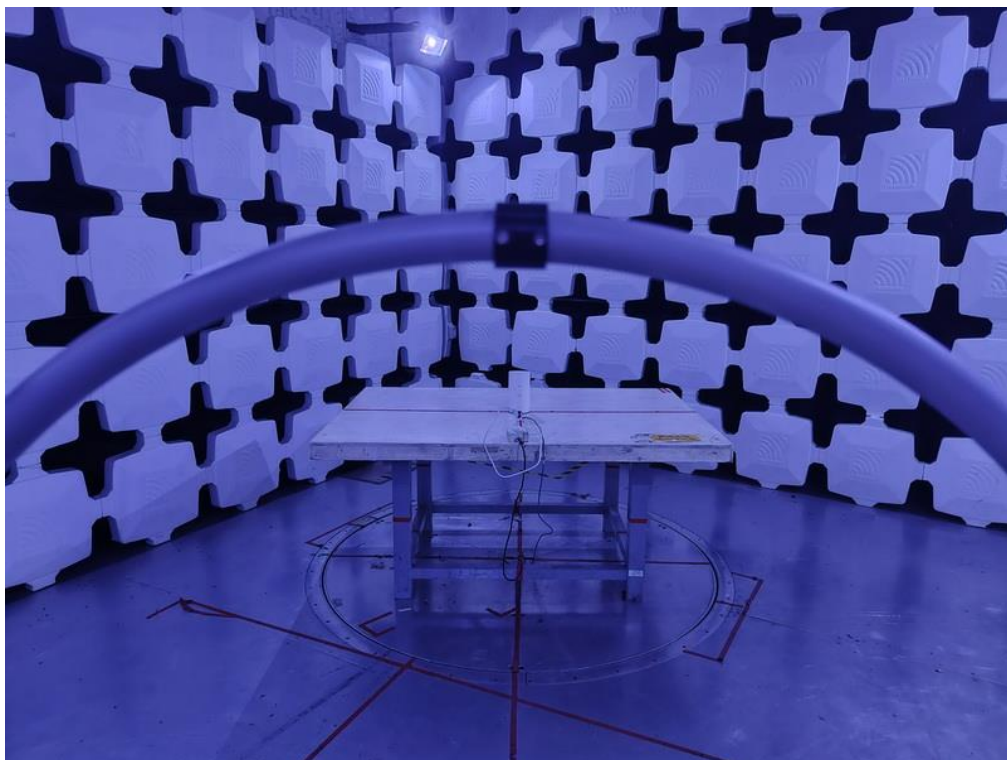
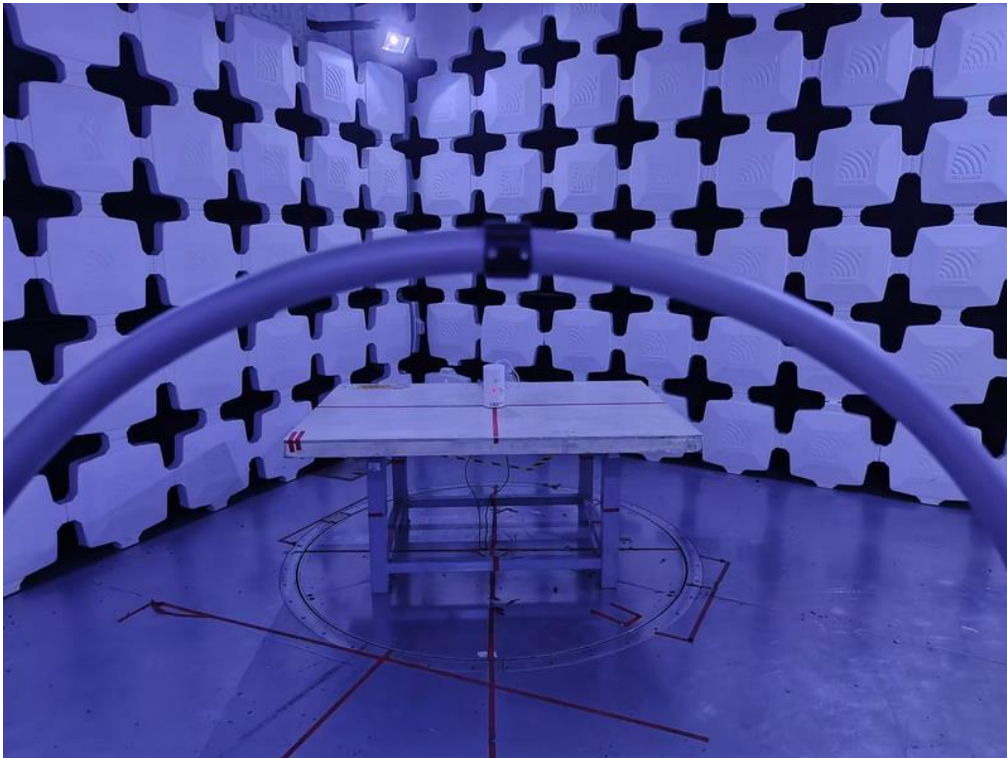
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

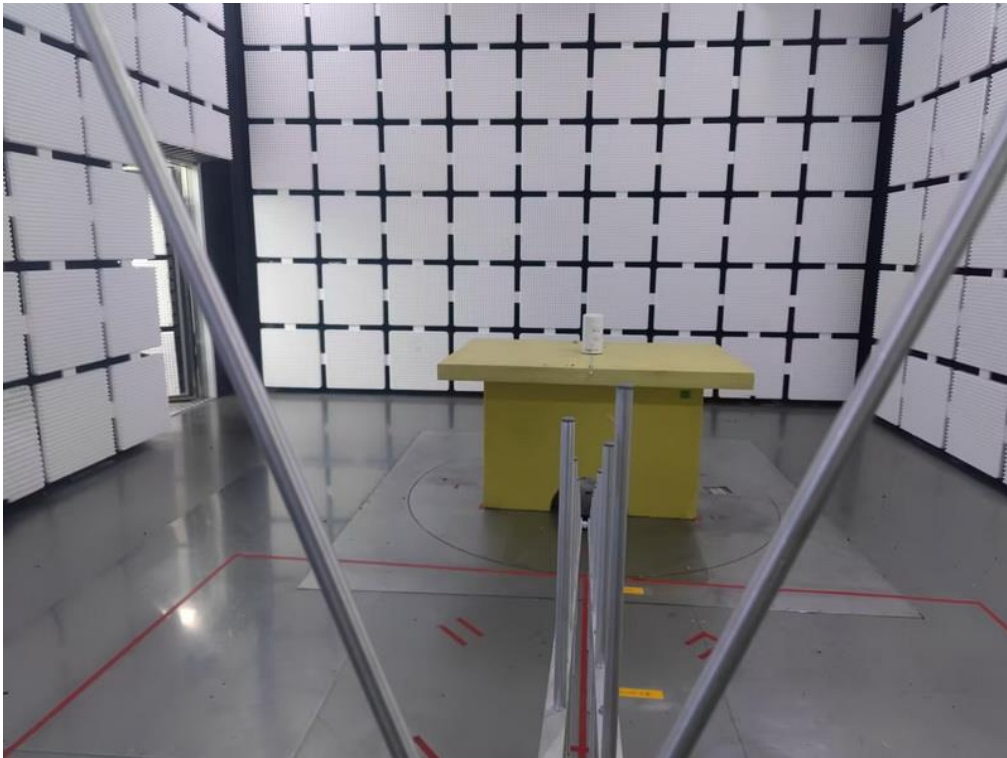
Remark: "N/A" denotes no model name, serial no. or calibration specified.

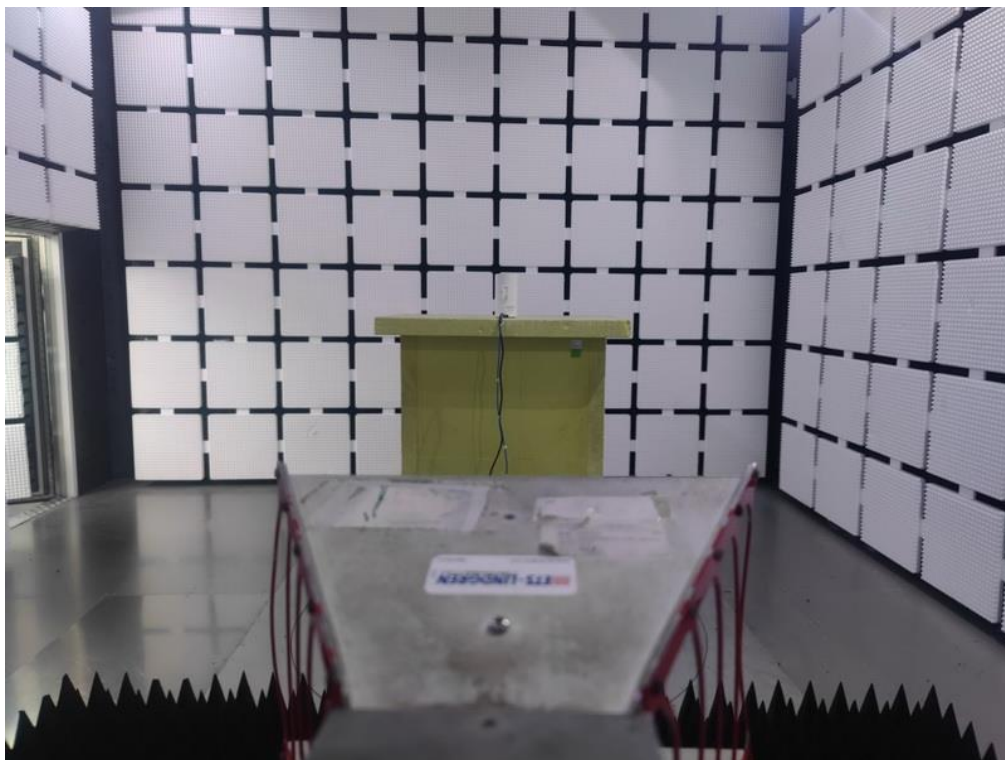
All calibration period of equipment list is one year.

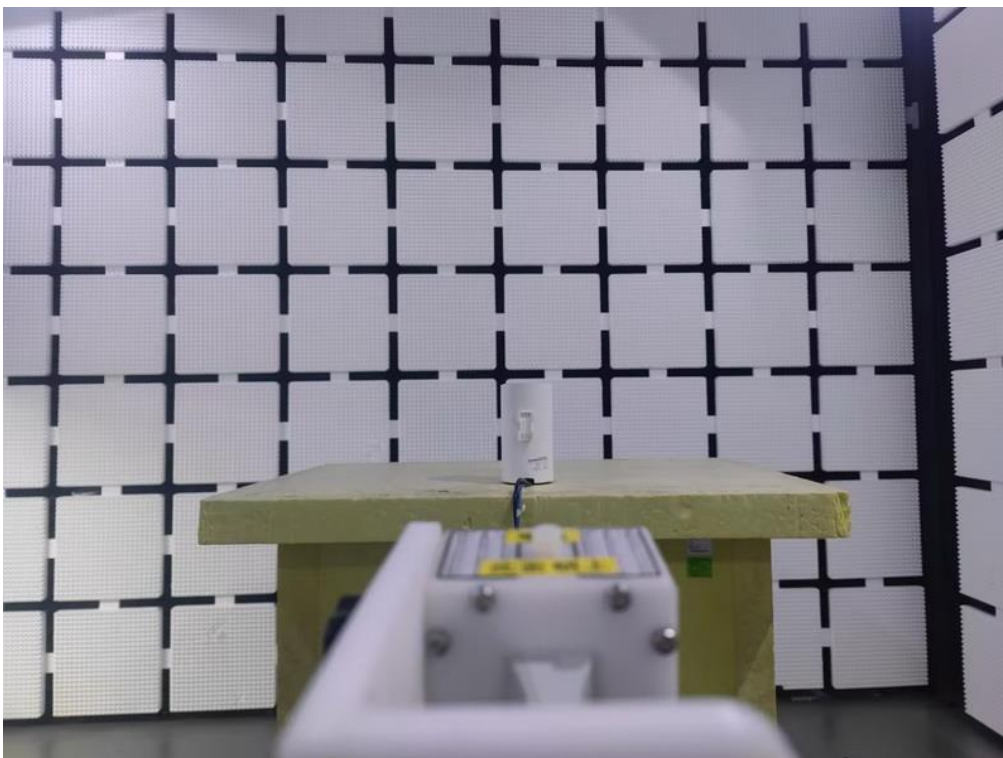
**11. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**



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

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

**Radiated Emissions Test Photos****Band edge & Harmonic(1 GHz to 18 GHz)**

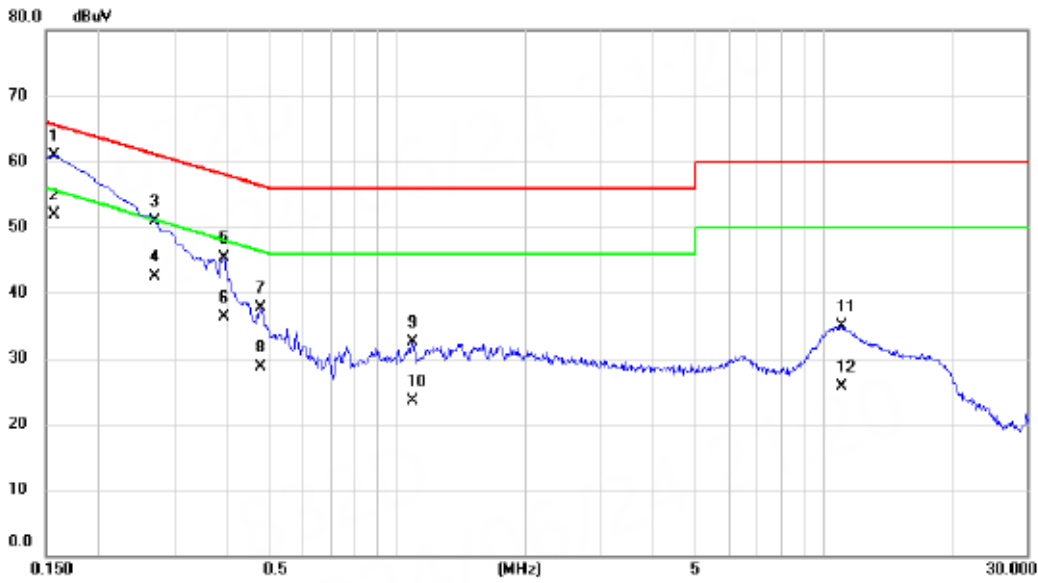
**Radiated Emissions Test Photos****Harmonic(Above 18 GHz)**

**Conducted Test Photos**



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

Test Mode	TX B Mode Channel 11	Phase	Line
-----------	----------------------	-------	------



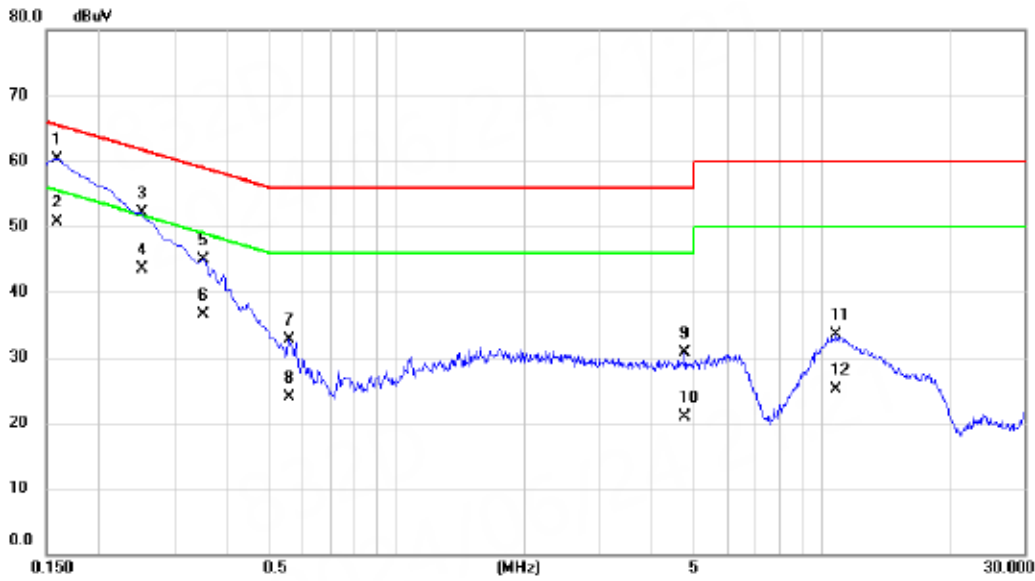
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1568	51.24	9.74	60.98	65.63	-4.65	QP	
2 *	0.1568	42.20	9.74	51.94	55.63	-3.69	AVG	
3	0.2714	41.06	9.76	50.82	61.07	-10.25	QP	
4	0.2714	32.70	9.76	42.46	51.07	-8.61	AVG	
5	0.3930	35.46	9.77	45.23	58.00	-12.77	QP	
6	0.3930	26.50	9.77	36.27	48.00	-11.73	AVG	
7	0.4807	27.91	9.79	37.70	56.33	-18.63	QP	
8	0.4807	18.90	9.79	28.69	46.33	-17.64	AVG	
9	1.0882	22.66	9.82	32.48	56.00	-23.52	QP	
10	1.0882	13.70	9.82	23.52	46.00	-22.48	AVG	
11	11.0467	24.43	10.54	34.97	60.00	-25.03	QP	
12	11.0467	15.10	10.54	25.64	50.00	-24.36	AVG	

**REMARKS:**

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

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

Test Mode	TX B Mode Channel 11	Phase	Neutral
-----------	----------------------	-------	---------



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	50.77	9.59	60.36	65.52	-5.16	QP	
2 *	0.1590	41.10	9.59	50.69	55.52	-4.83	AVG	
3	0.2513	42.39	9.62	52.01	61.71	-9.70	QP	
4	0.2513	33.90	9.62	43.52	51.71	-8.19	AVG	
5	0.3525	35.36	9.64	45.00	58.90	-13.90	QP	
6	0.3525	26.80	9.64	36.44	48.90	-12.46	AVG	
7	0.5595	23.14	9.65	32.79	56.00	-23.21	QP	
8	0.5595	14.20	9.65	23.85	46.00	-22.15	AVG	
9	4.7783	20.79	9.84	30.63	56.00	-25.37	QP	
10	4.7783	11.10	9.84	20.94	46.00	-25.06	AVG	
11	10.8083	23.14	10.42	33.56	60.00	-26.44	QP	
12	10.8083	14.70	10.42	25.12	50.00	-24.88	AVG	

**REMARKS:**

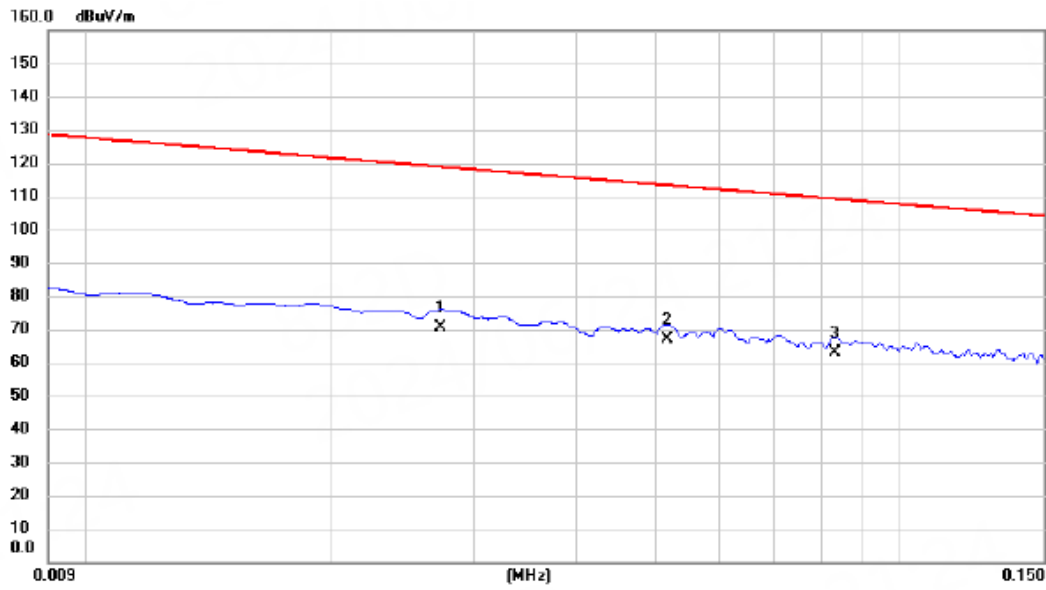
(1) Measurement Value = Reading Level + Correct Factor.

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



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

Test Mode	TX B Mode Channel 11	Polarization	Ant 0°
-----------	----------------------	--------------	--------

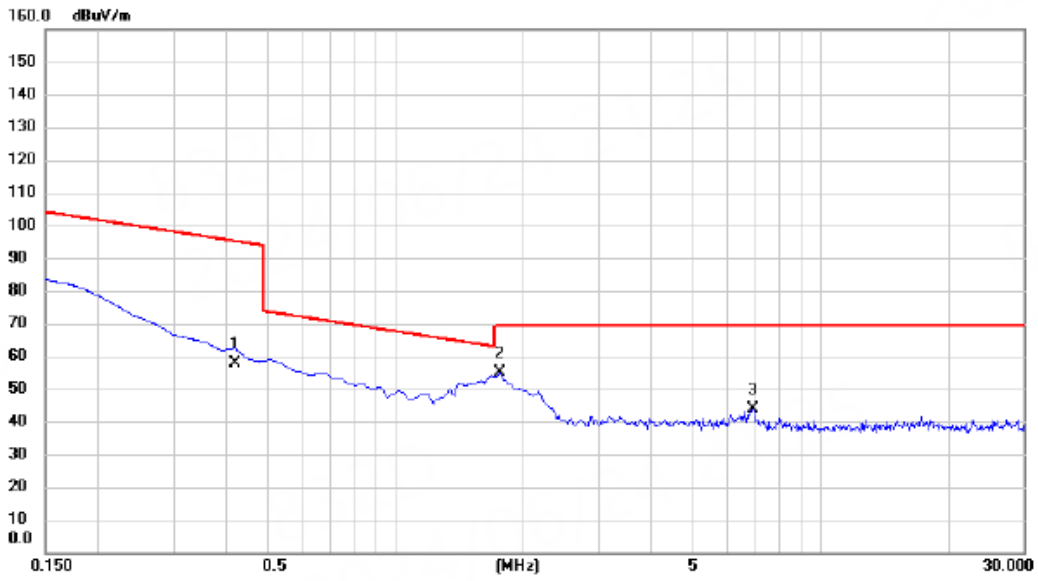


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0273	49.66	21.02	70.68	118.88	-48.20	AVG	
2		0.0517	45.71	21.21	66.92	113.34	-46.42	AVG	
3	*	0.0832	41.58	21.30	62.88	109.20	-46.32	AVG	

**REMARKS:**

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 0°
-----------	----------------------	--------------	--------

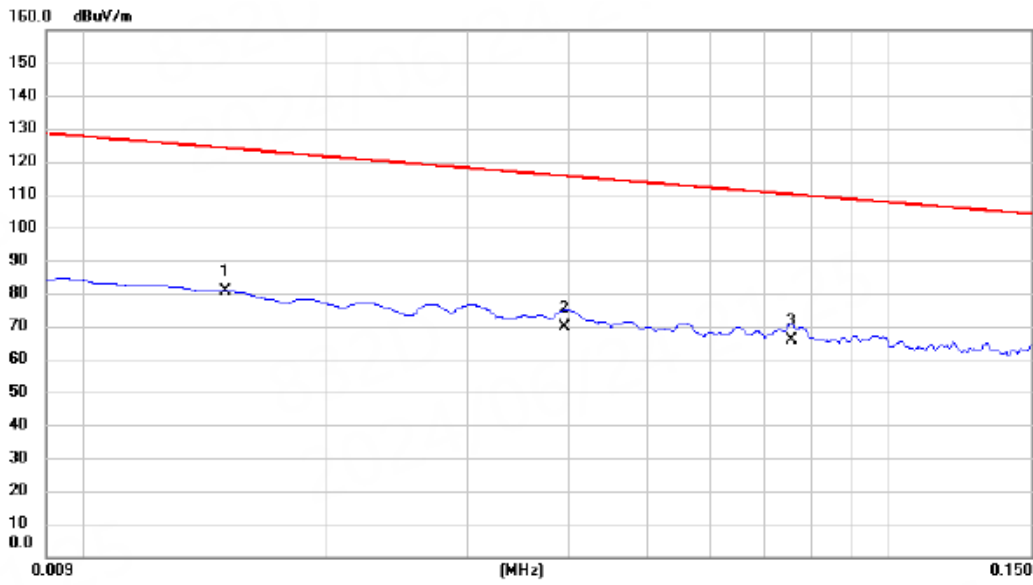


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	0.4187	36.77	21.05	57.82	95.17	-37.35	AVG	
2 *	1.7620	33.95	21.11	55.06	69.54	-14.48	QP	
3	6.9260	22.53	21.17	43.70	69.54	-25.84	QP	

**REMARKS:**

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°
-----------	----------------------	--------------	---------

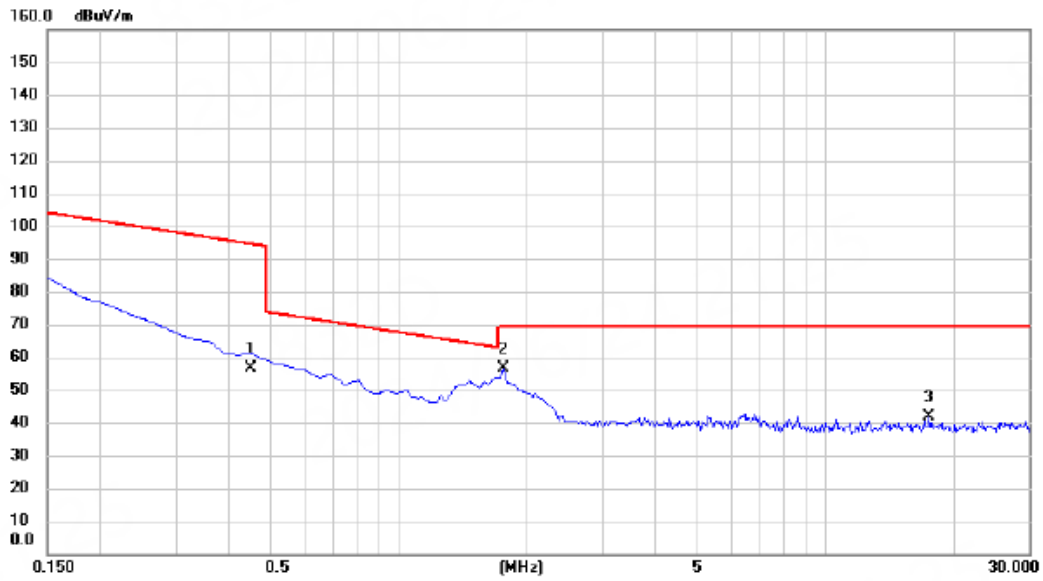


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0150	60.07	20.65	80.72	124.08	-43.36	QP	
2		0.0396	48.77	21.15	69.92	115.65	-45.73	AVG	
3		0.0756	44.63	21.29	65.92	110.03	-44.11	AVG	

**REMARKS:**

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°
-----------	----------------------	--------------	---------



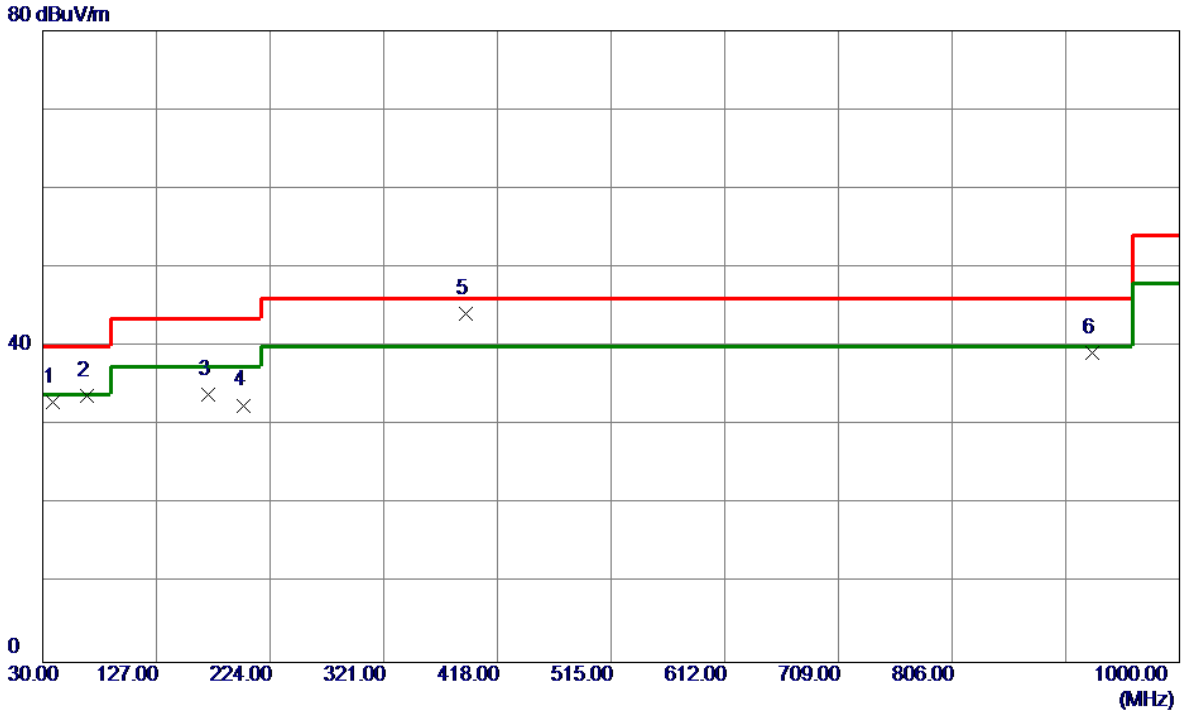
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.4485	35.47	21.05	56.52	94.57	-38.05	AVG	
2 *	1.7620	35.31	21.11	56.42	69.54	-13.12	QP	
3	17.5227	20.30	21.37	41.67	69.54	-27.87	QP	

**REMARKS:**

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

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

Test Mode	TX B Mode Channel 11	Polarization	Vertical
-----------	----------------------	--------------	----------



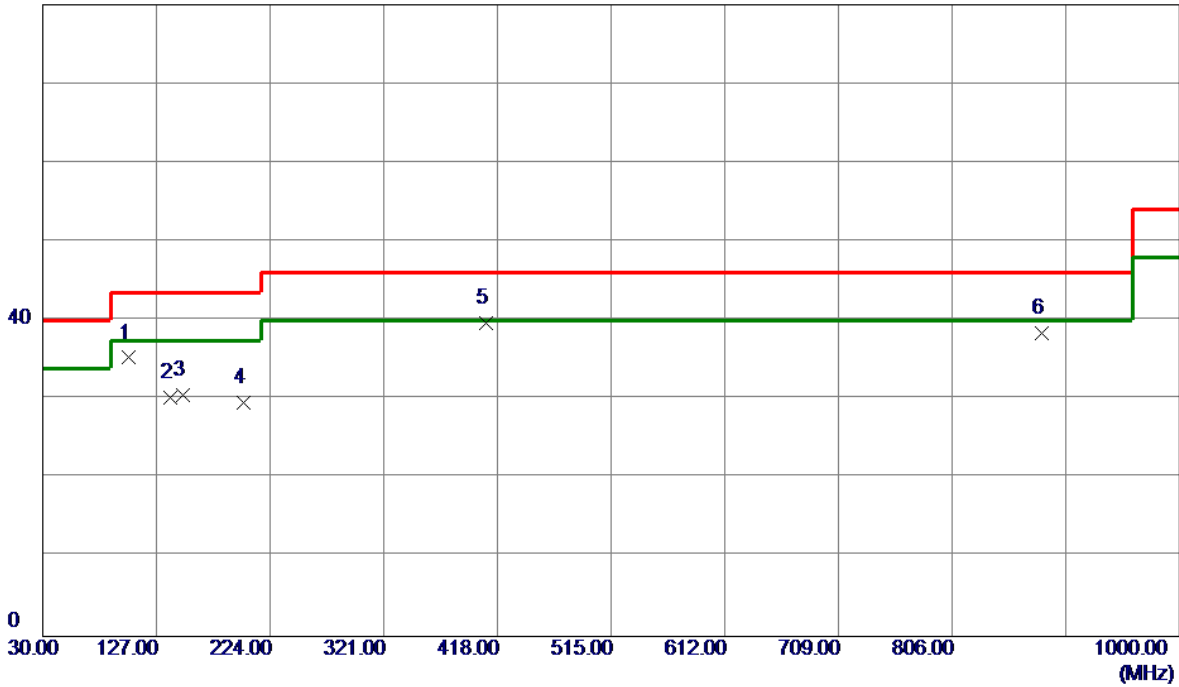
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	38.7300	44.87	-11.90	32.97	40.00	-7.03	Peak	
2	67.8300	46.91	-13.14	33.77	40.00	-6.23	Peak	
3	171.1350	45.27	-11.29	33.98	43.50	-9.52	Peak	
4	201.2050	46.90	-14.34	32.56	43.50	-10.94	Peak	
5 *	391.3250	52.25	-8.05	44.20	46.00	-1.80	Peak	
6	925.3100	38.69	0.49	39.18	46.00	-6.82	Peak	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Horizontal
-----------	----------------------	--------------	------------

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	103.7200	50.54	-15.26	35.28	43.50	-8.22	Peak	
2	138.6400	41.96	-11.73	30.23	43.50	-13.27	Peak	
3	149.7950	41.68	-11.11	30.57	43.50	-12.93	Peak	
4	201.2050	44.00	-14.34	29.66	43.50	-13.84	Peak	
5 *	407.8150	47.39	-7.68	39.71	46.00	-6.29	Peak	
6	882.1450	38.28	0.14	38.42	46.00	-7.58	Peak	

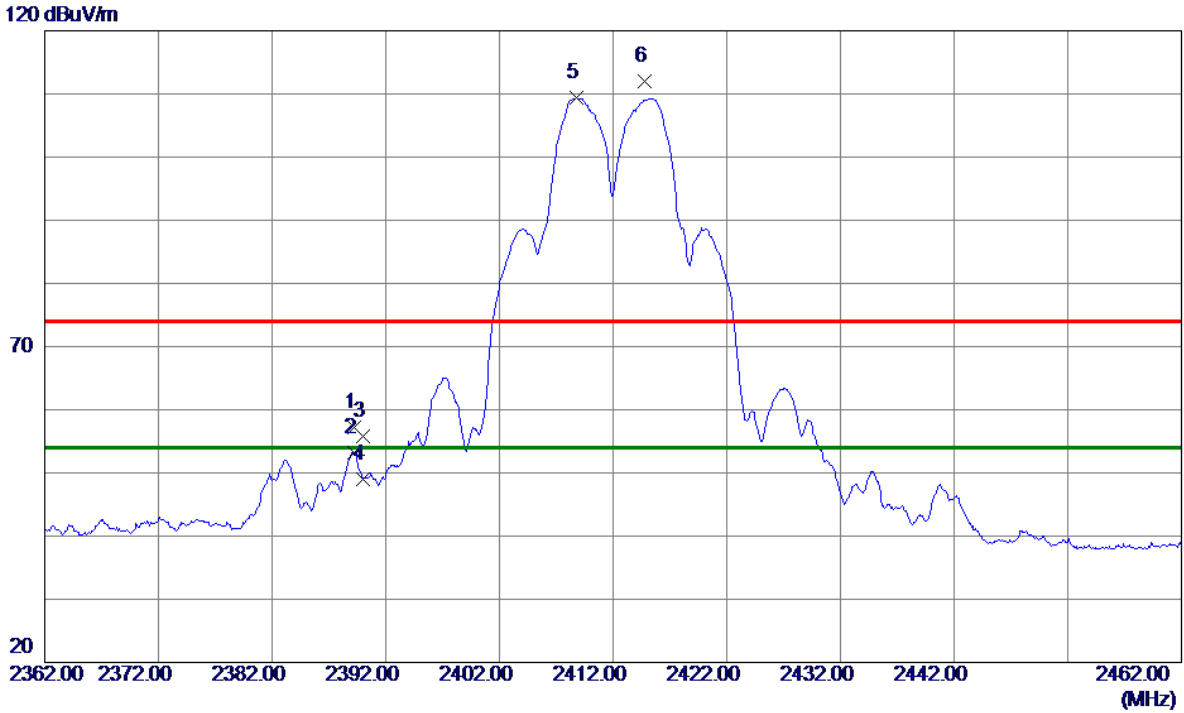
REMARKS:

- (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
-----------	--------------------	--------------	----------



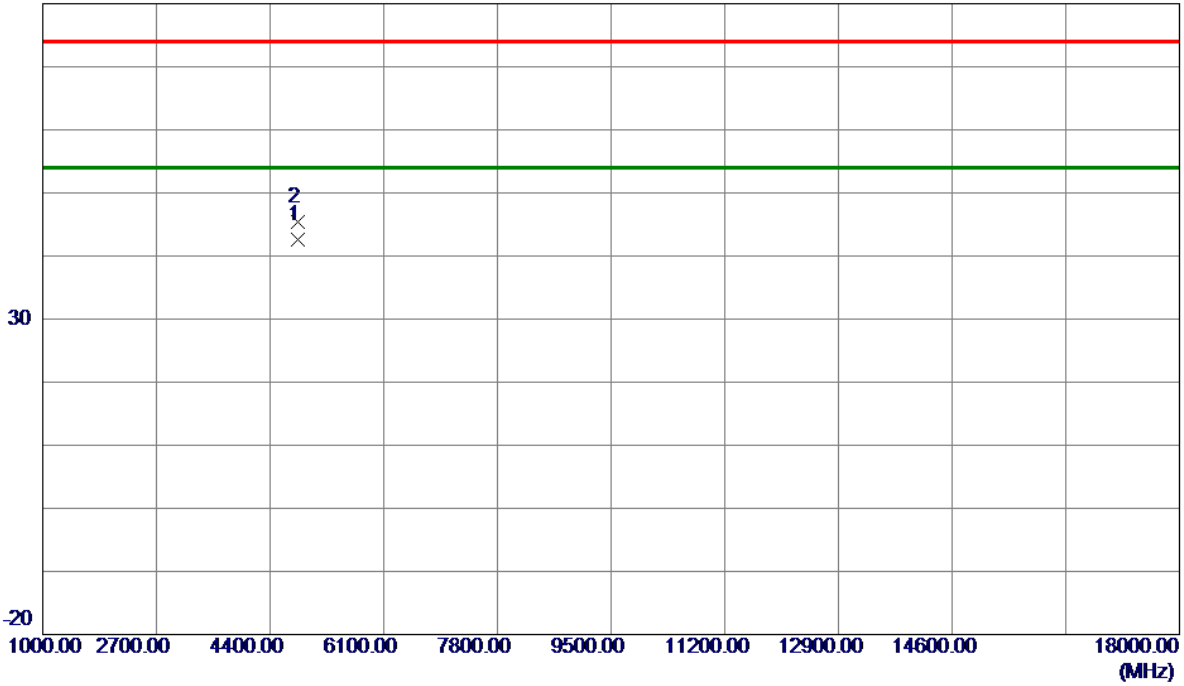
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.2000	51.64	5.51	57.15	74.00	-16.85	Peak	
2	2389.2000	47.69	5.51	53.20	54.00	-0.80	AVG	
3	2390.0000	50.35	5.51	55.86	74.00	-18.14	Peak	
4	2390.0000	43.48	5.51	48.99	54.00	-5.01	AVG	
5 *	2408.7500	103.83	5.51	109.34	54.00	55.34	AVG	No Limit
6	2414.8000	106.41	5.50	111.91	74.00	37.91	Peak	No Limit

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

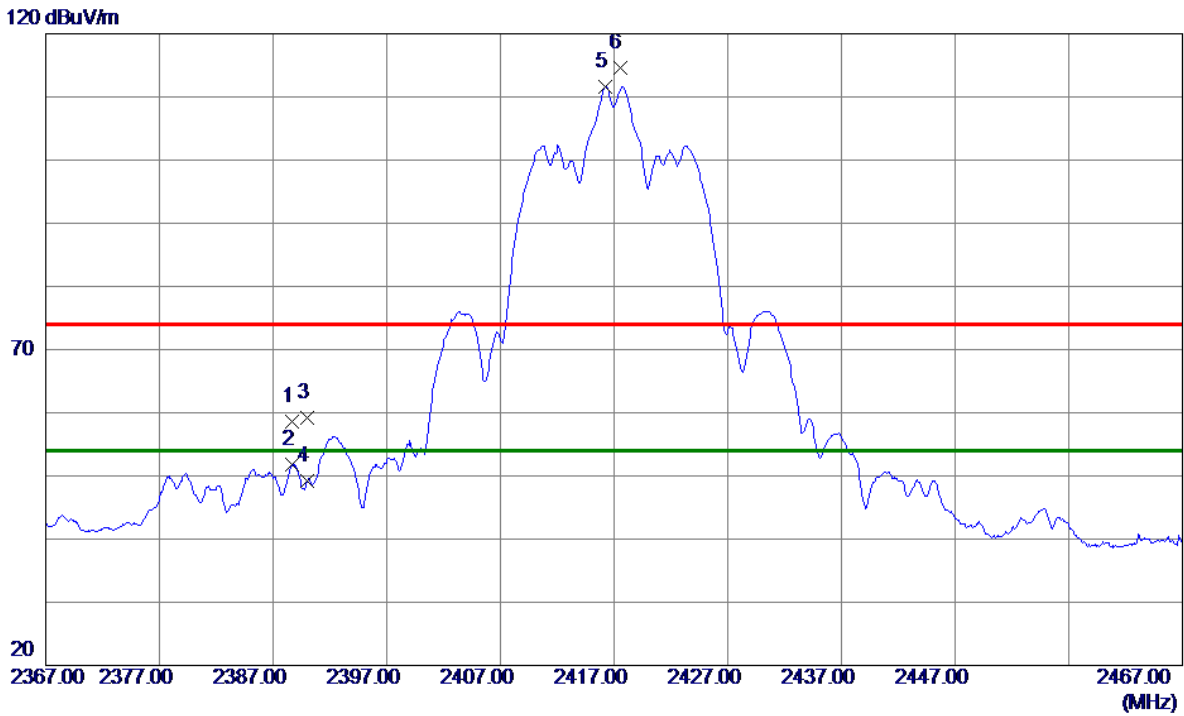


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9700	42.16	0.46	42.62	54.00	-11.38	AVG	
2	4824.0550	45.02	0.46	45.48	74.00	-28.52	Peak	

REMARKS:

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



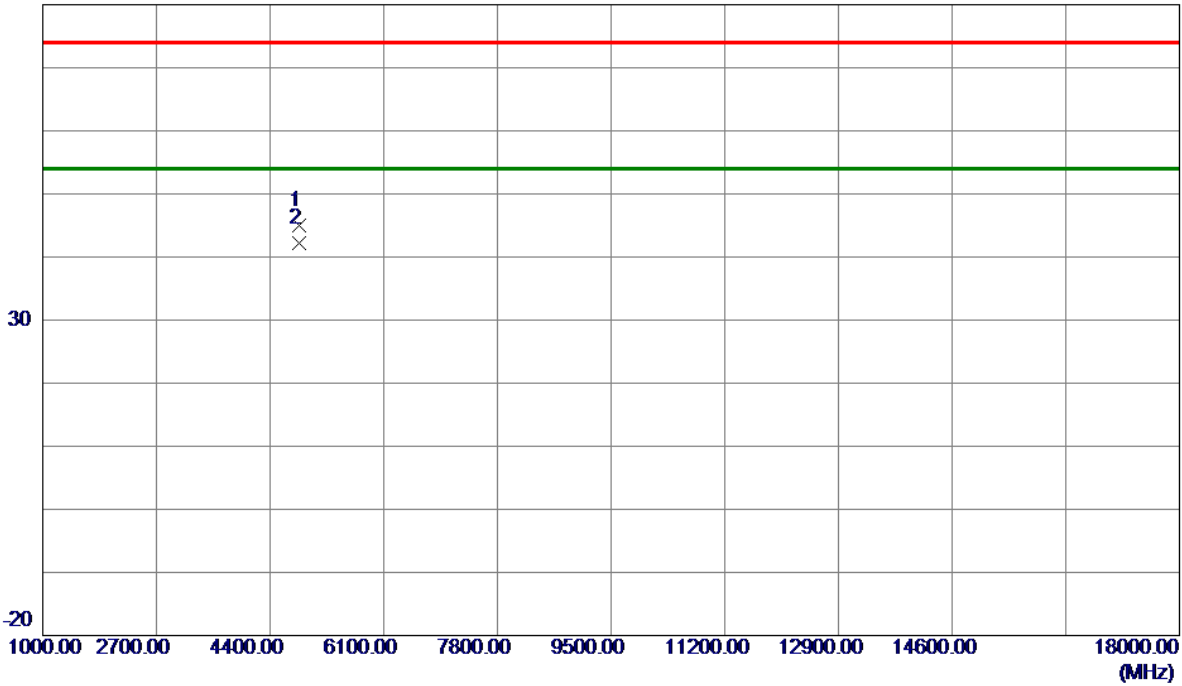
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.7000	53.00	5.51	58.51	74.00	-15.49	Peak	
2	2388.7000	46.35	5.51	51.86	54.00	-2.14	AVG	
3	2390.0000	53.75	5.51	59.26	74.00	-14.74	Peak	
4	2390.0000	43.73	5.51	49.24	54.00	-4.76	AVG	
5 *	2416.2500	106.11	5.50	111.61	54.00	57.61	AVG	No Limit
6	2417.5000	109.14	5.50	114.64	74.00	40.64	Peak	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2417 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

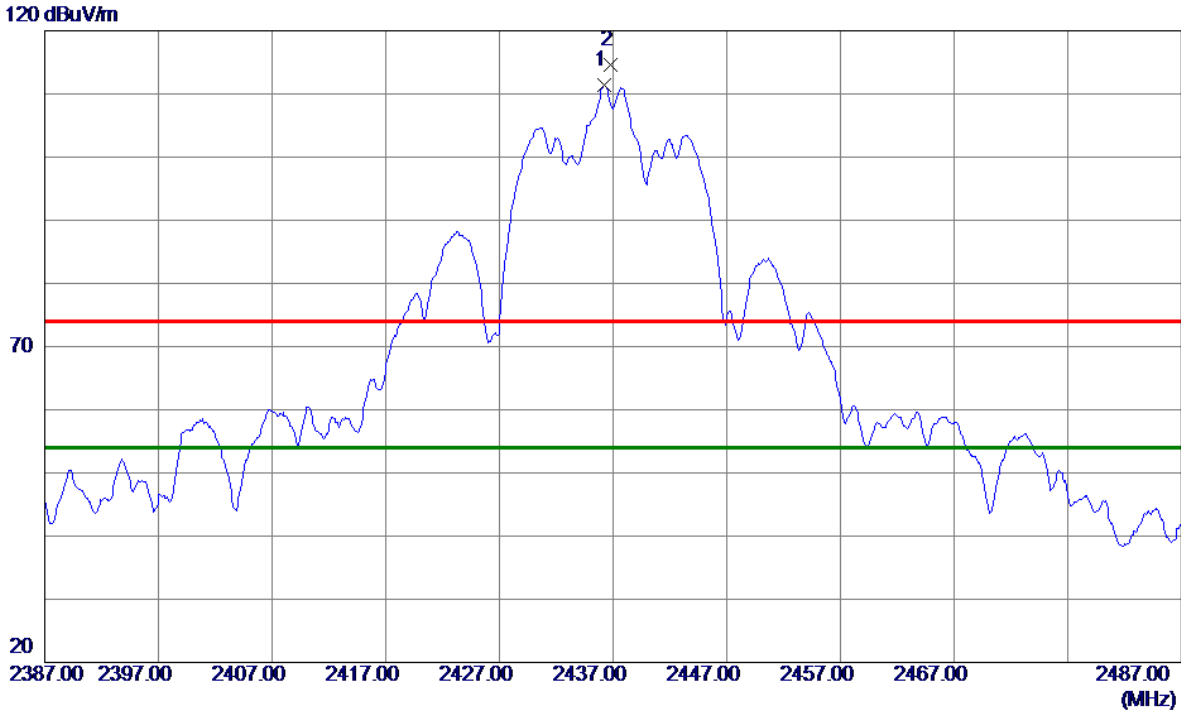


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4834.0000	44.48	0.49	44.97	74.00	-29.03	Peak	
2 *	4834.0000	41.77	0.49	42.26	54.00	-11.74	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



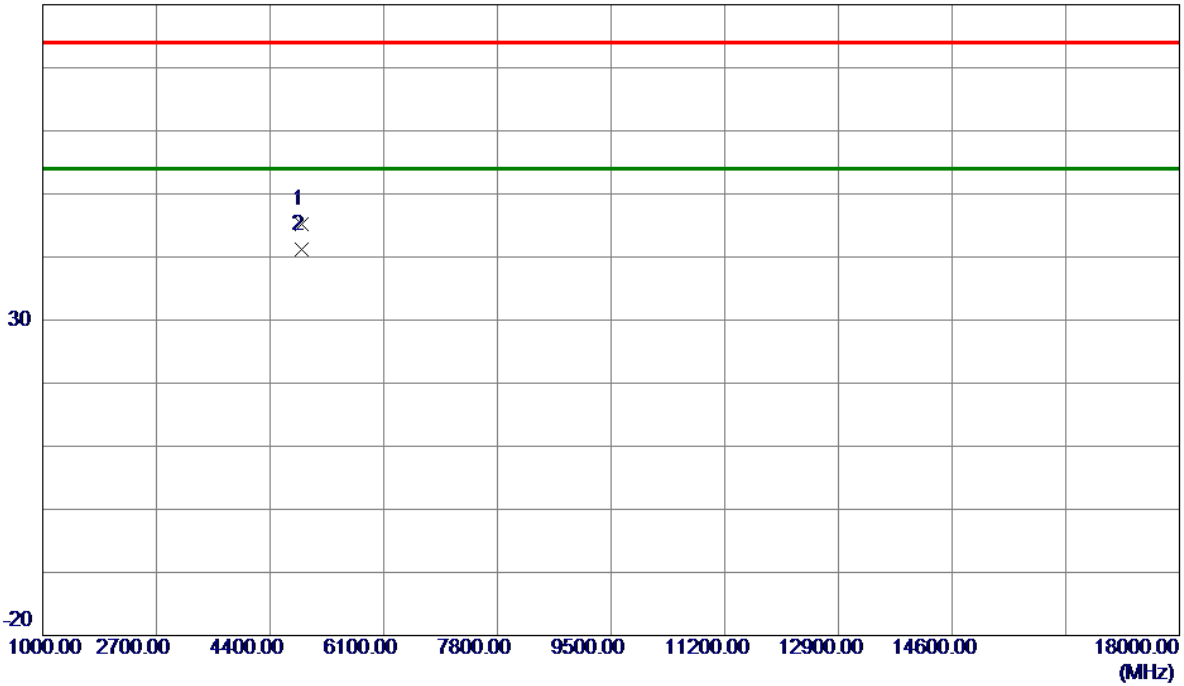
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2500	105.81	5.50	111.31	54.00	57.31	AVG	No Limit
2	2436.7500	109.08	5.50	114.58	74.00	40.58	Peak	No Limit

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

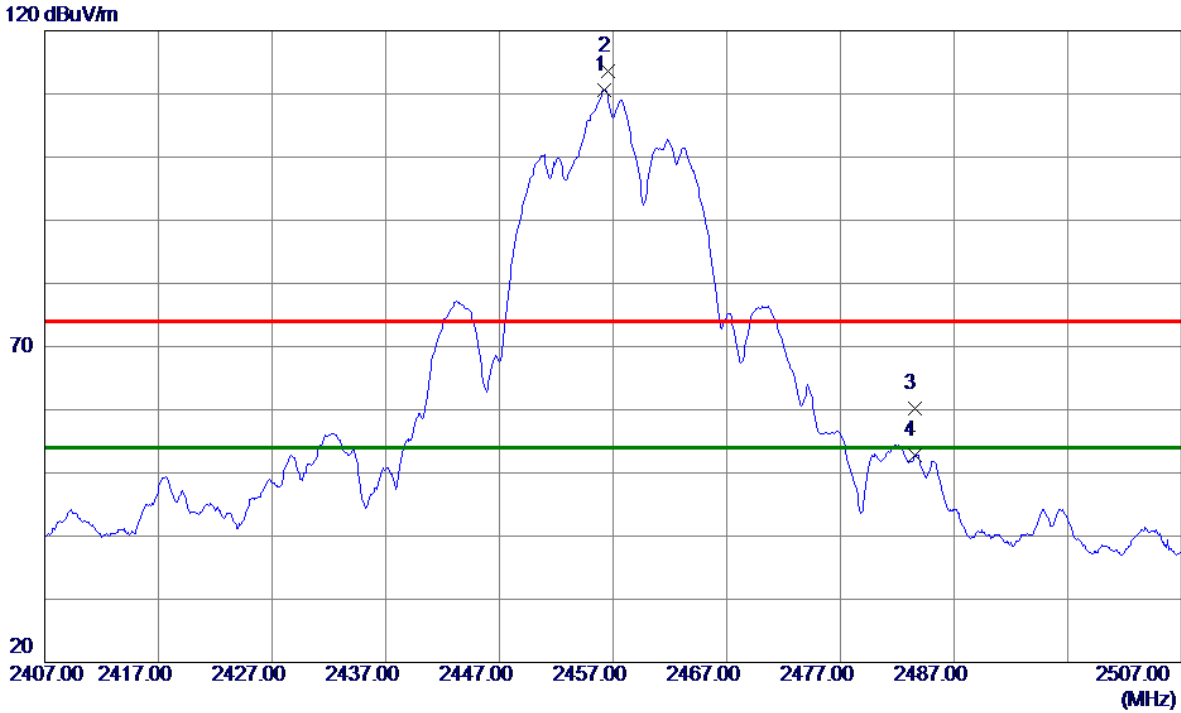


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.7900	44.59	0.60	45.19	74.00	-28.81	Peak	
2 *	4873.9550	40.65	0.60	41.25	54.00	-12.75	AVG	

REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.2000	105.16	5.49	110.65	54.00	56.65	AVG	No Limit
2	2456.5500	108.14	5.49	113.63	74.00	39.63	Peak	No Limit
3	2483.5000	54.73	5.48	60.21	74.00	-13.79	Peak	
4	2483.5000	47.25	5.48	52.73	54.00	-1.27	AVG	

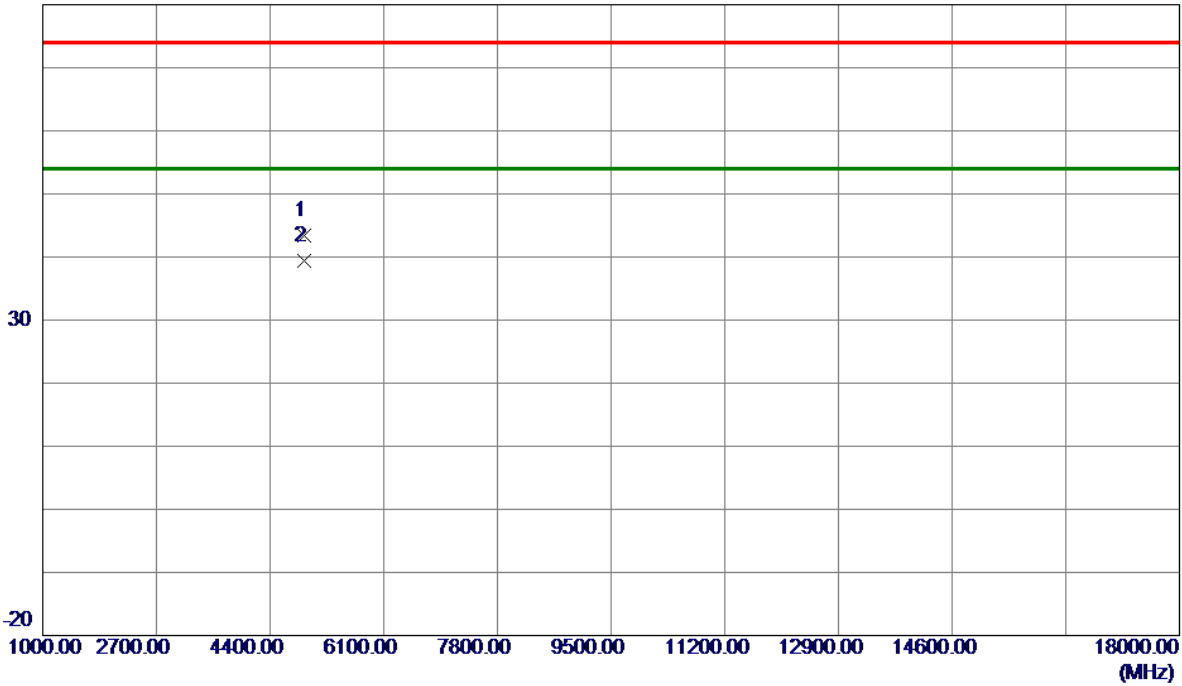
**REMARKS:**

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



Test Mode	TX B Mode 2457 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

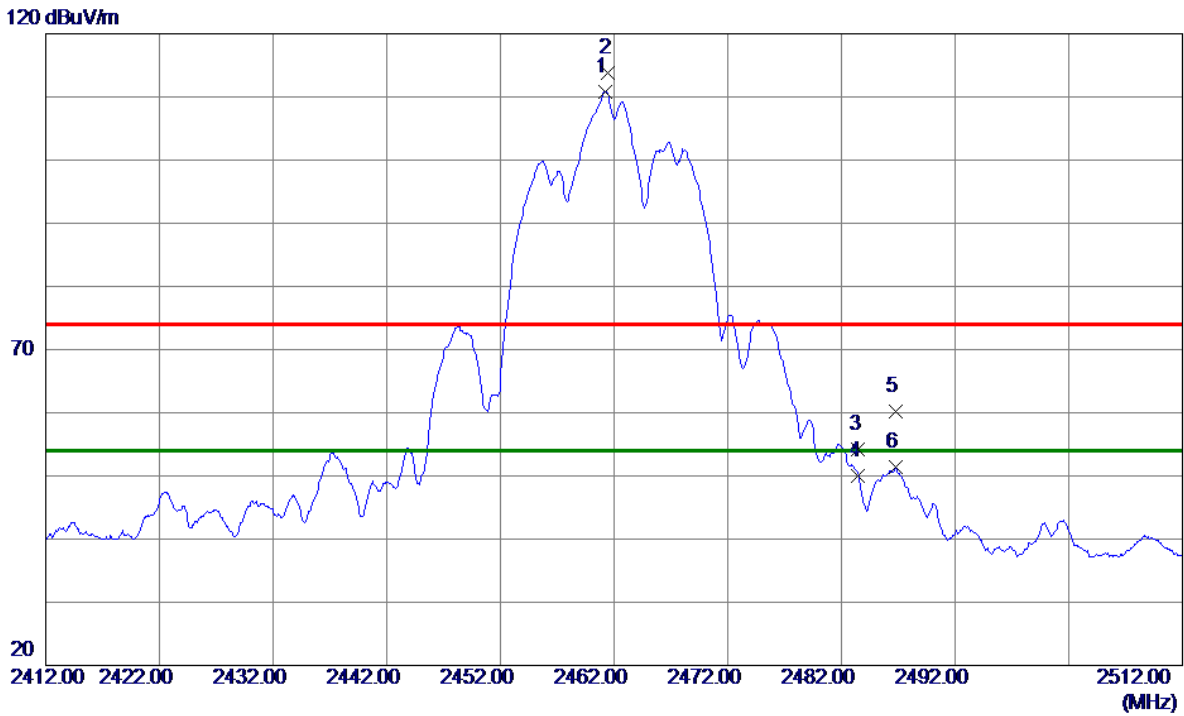


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4913.8350	42.61	0.70	43.31	74.00	-30.69	Peak	
2 *	4913.9600	38.71	0.71	39.42	54.00	-14.58	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



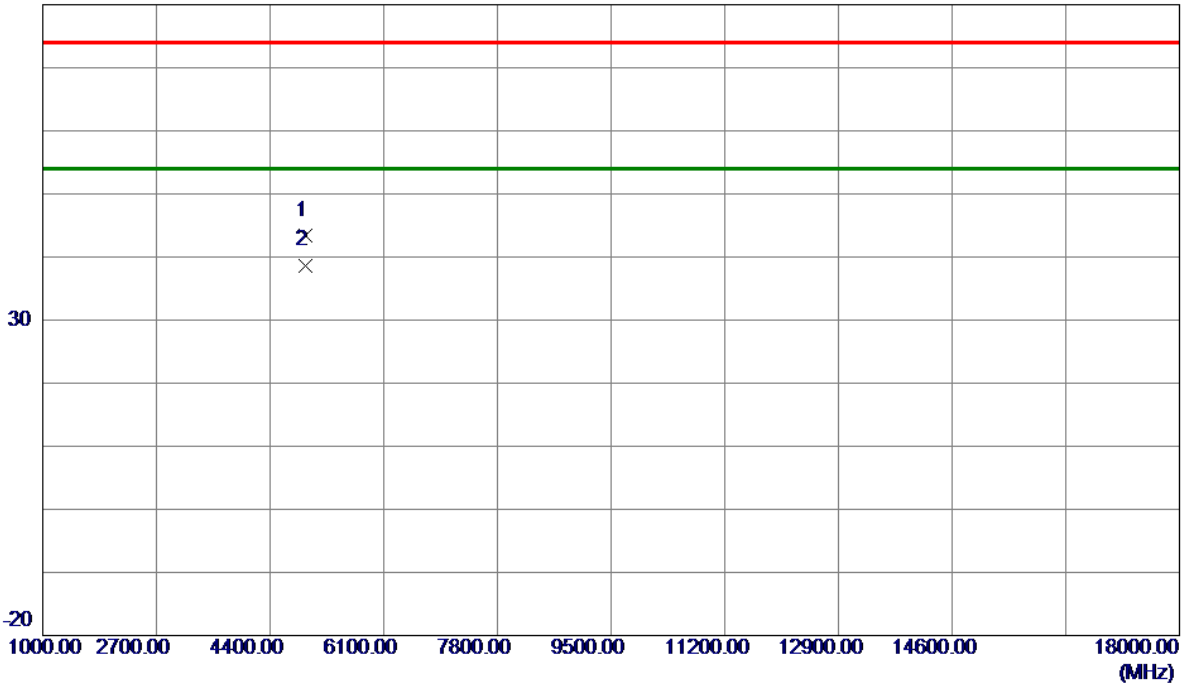
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2500	105.36	5.49	110.85	54.00	56.85	AVG	No Limit
2	2461.5000	108.23	5.49	113.72	74.00	39.72	Peak	No Limit
3	2483.5000	48.81	5.48	54.29	74.00	-19.71	Peak	
4	2483.5000	44.61	5.48	50.09	54.00	-3.91	AVG	
5	2486.8000	54.74	5.48	60.22	74.00	-13.78	Peak	
6	2486.8000	45.92	5.48	51.40	54.00	-2.60	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
-----------	--------------------	--------------	------------

80 dBuV/m

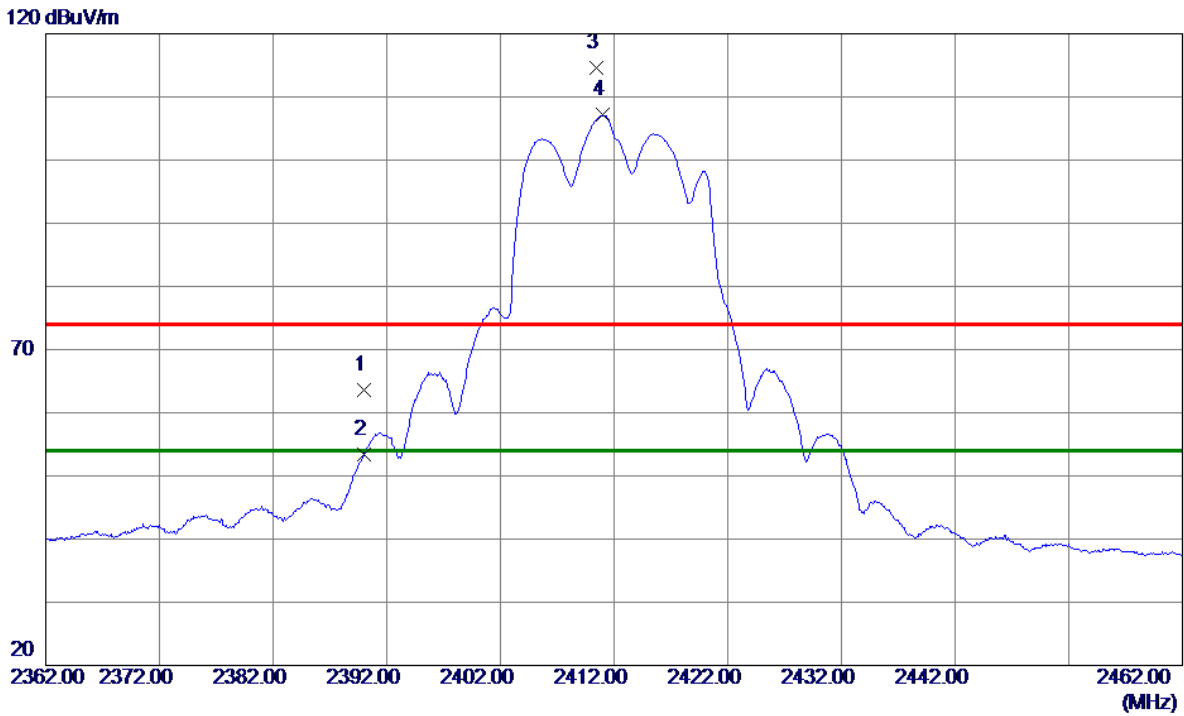


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9150	42.63	0.73	43.36	74.00	-30.64	Peak	
2 *	4923.9550	37.97	0.73	38.70	54.00	-15.30	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



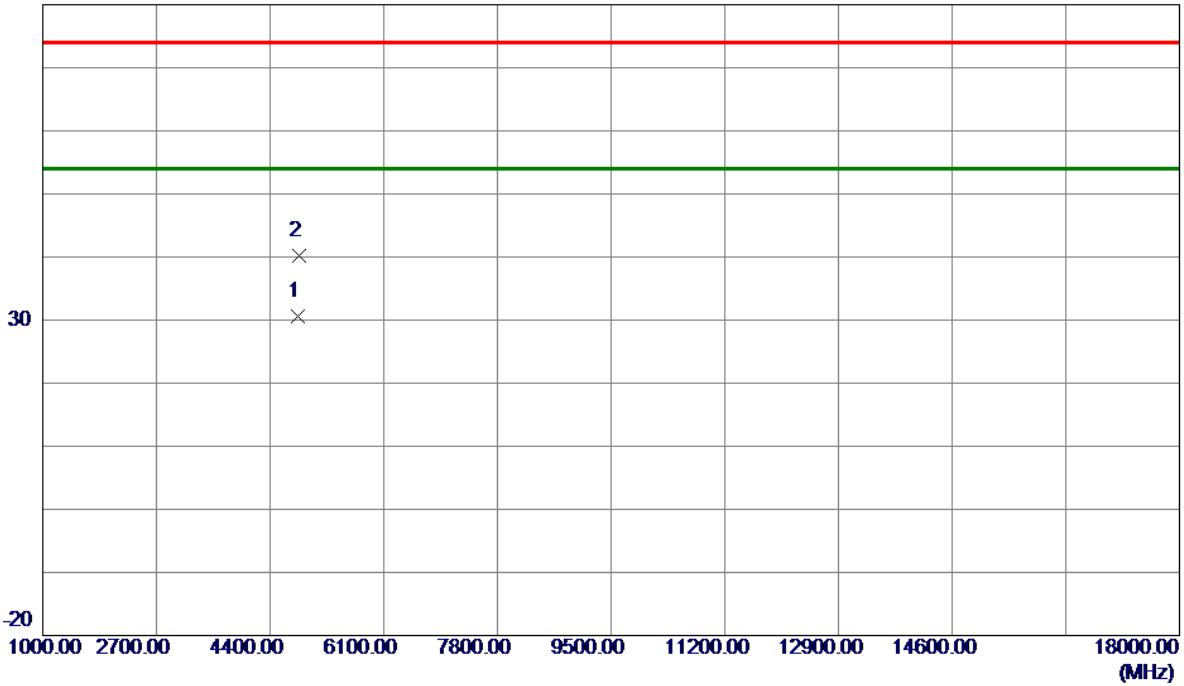
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.13	5.51	63.64	74.00	-10.36	Peak	
2	2390.0000	47.82	5.51	53.33	54.00	-0.67	AVG	
3	2410.4500	109.14	5.51	114.65	74.00	40.65	Peak	No Limit
4 *	2411.0000	101.63	5.50	107.13	54.00	53.13	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
-----------	--------------------	--------------	------------

80 dBuV/m

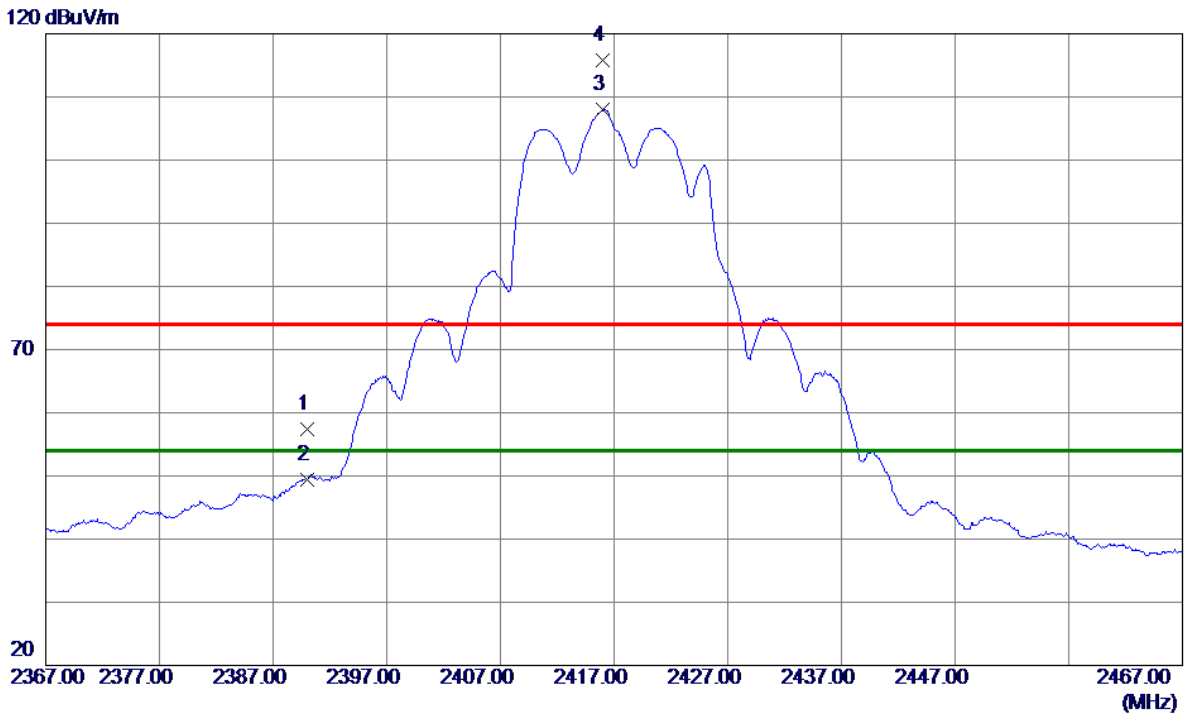


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4821.8500	30.16	0.45	30.61	54.00	-23.39	AVG	
2	4827.2000	39.74	0.47	40.21	74.00	-33.79	Peak	

REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



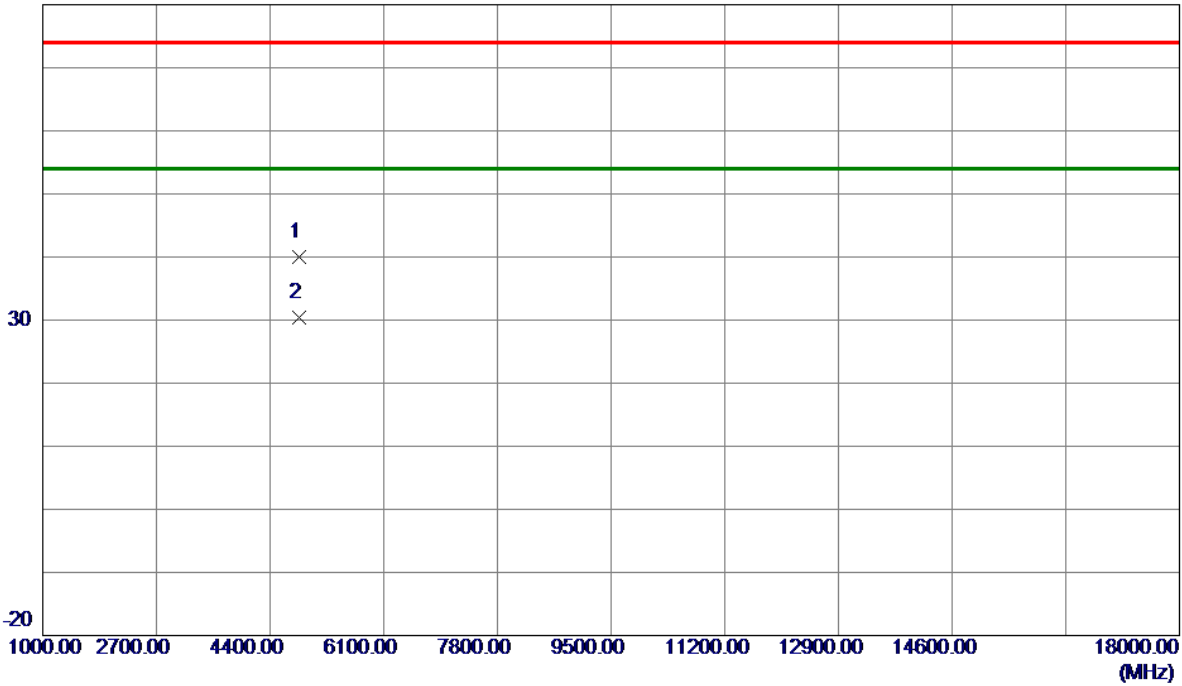
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	51.85	5.51	57.36	74.00	-16.64	Peak	
2	2390.0000	43.94	5.51	49.45	54.00	-4.55	AVG	
3 *	2416.0000	102.55	5.50	108.05	54.00	54.05	AVG	No Limit
4	2416.0500	110.33	5.50	115.83	74.00	41.83	Peak	No Limit

**REMARKS:**

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

Test Mode	TX G Mode 2417 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

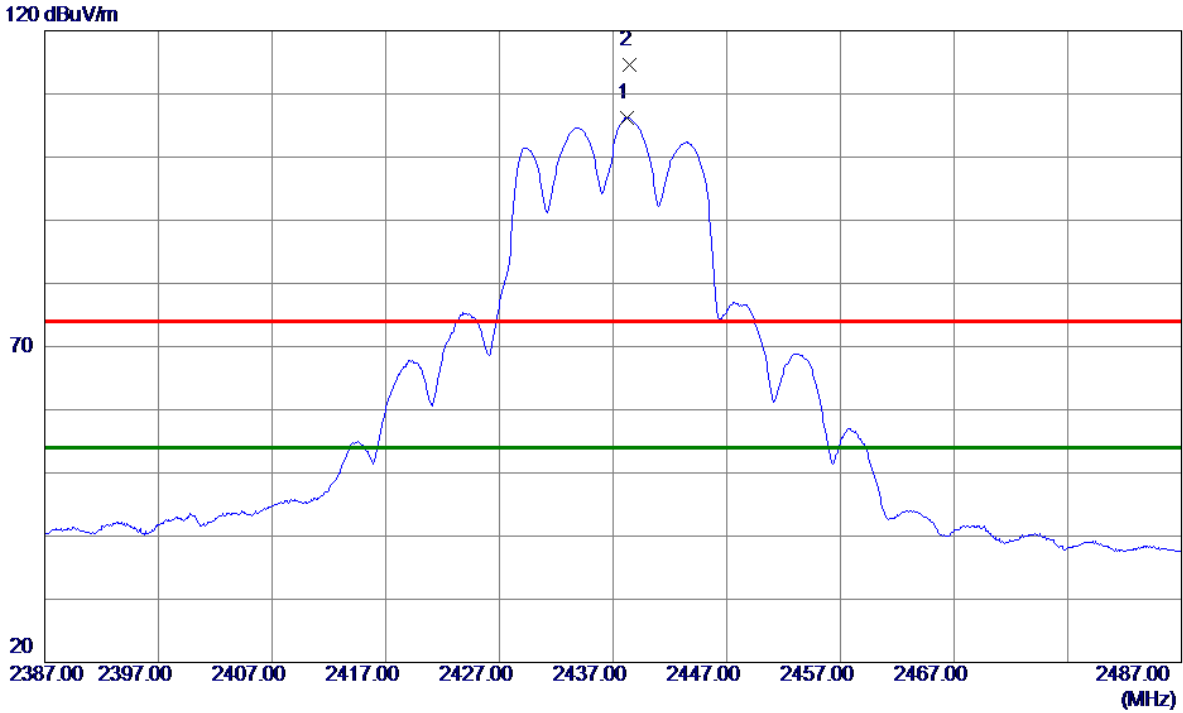


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4831.5500	39.57	0.48	40.05	74.00	-33.95	Peak	
2 *	4831.9500	29.88	0.48	30.36	54.00	-23.64	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.2500	100.73	5.50	106.23	54.00	52.23	AVG	No Limit
2	2438.4000	109.07	5.50	114.57	74.00	40.57	Peak	No Limit

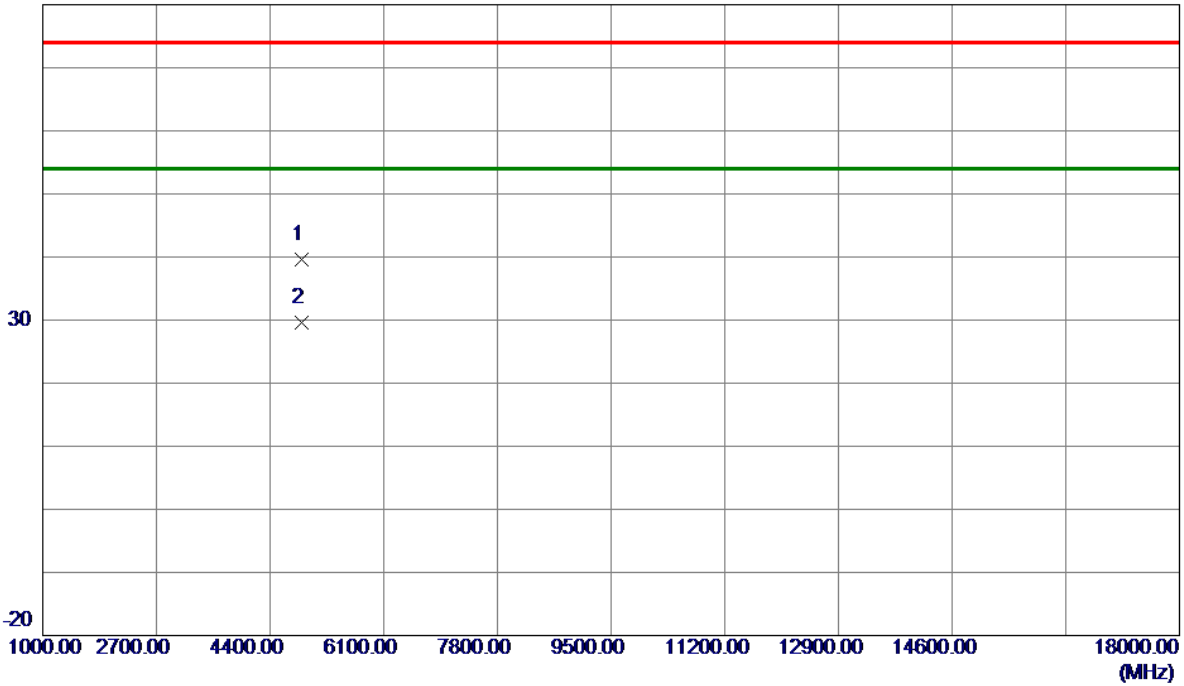
**REMARKS:**

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



Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

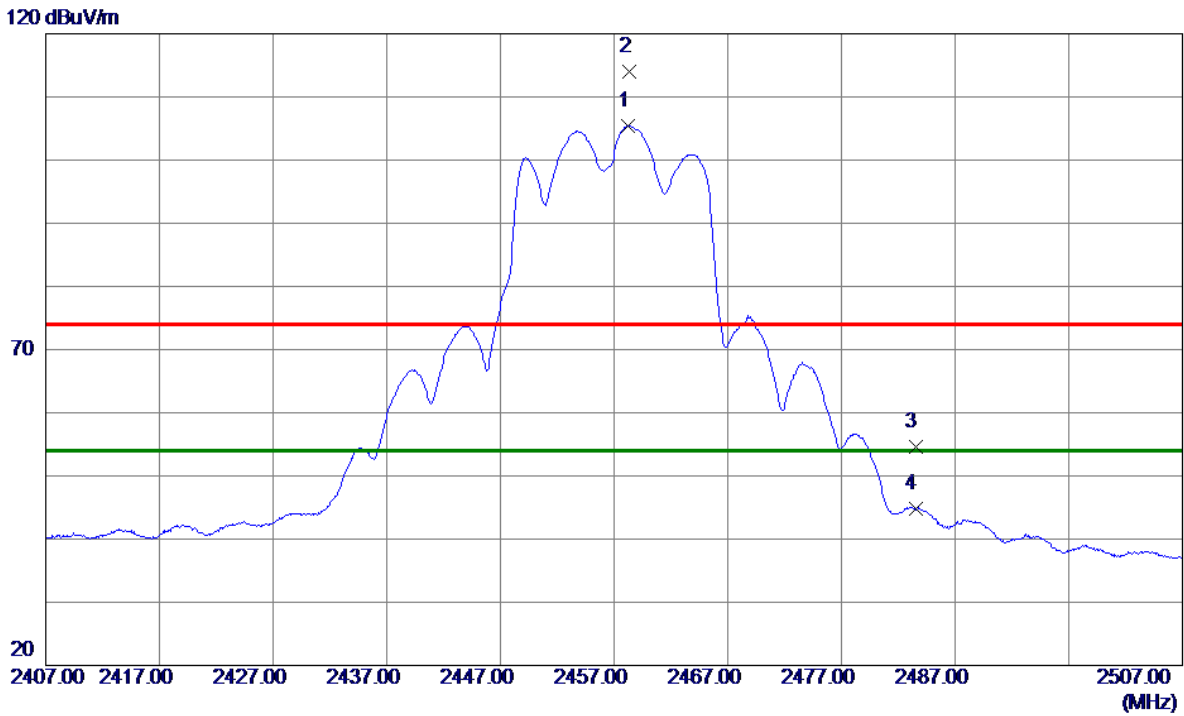


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.0000	39.06	0.59	39.65	74.00	-34.35	Peak	
2 *	4876.4000	29.00	0.60	29.60	54.00	-24.40	AVG	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



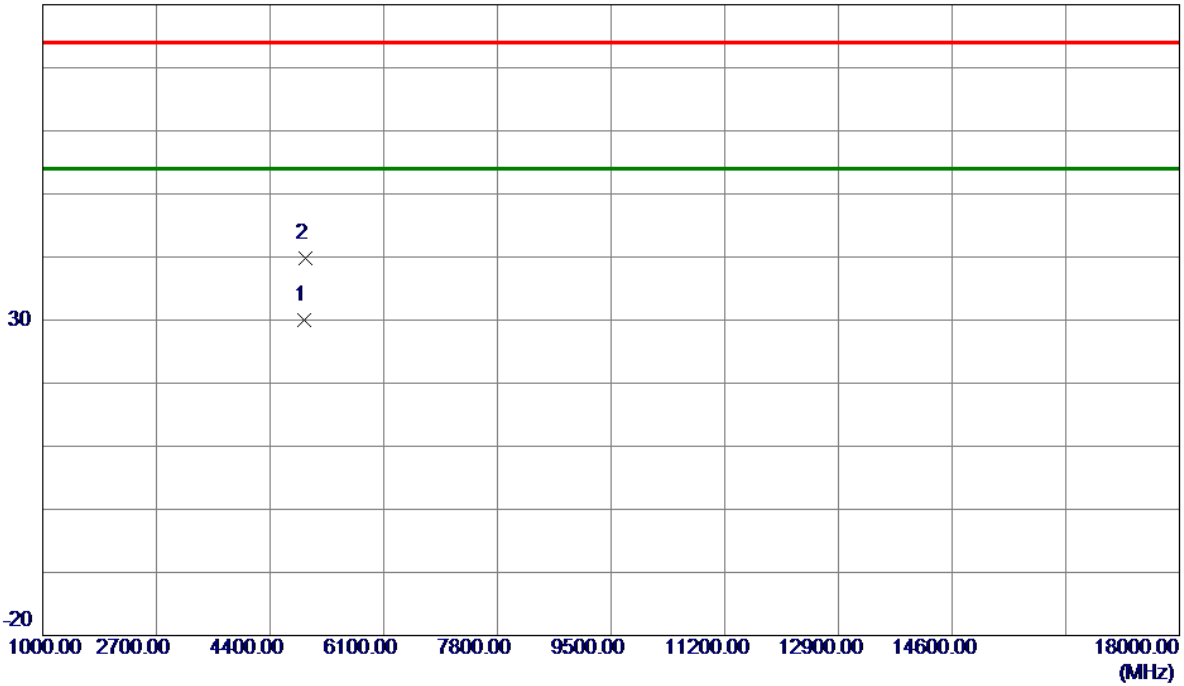
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.2000	99.95	5.49	105.44	54.00	51.44	AVG	No Limit
2	2458.3000	108.43	5.49	113.92	74.00	39.92	Peak	No Limit
3	2483.5000	49.11	5.48	54.59	74.00	-19.41	Peak	
4	2483.5000	39.39	5.48	44.87	54.00	-9.13	AVG	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m

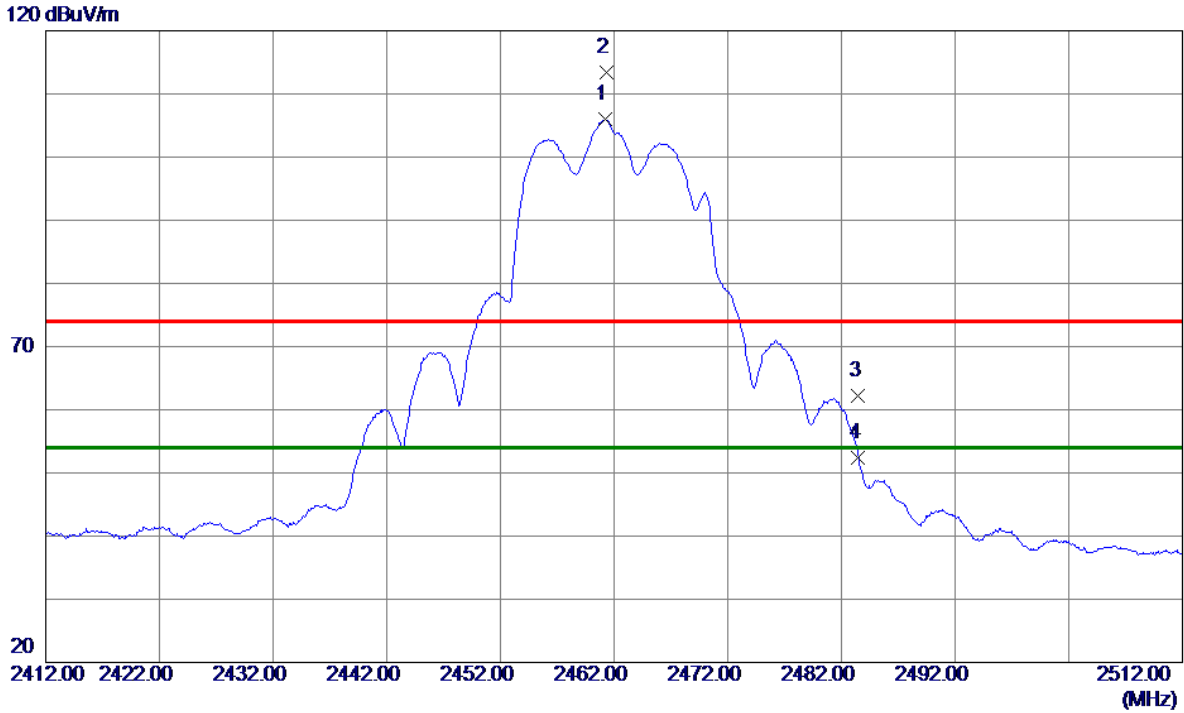


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4911.7500	29.32	0.70	30.02	54.00	-23.98	AVG	
2	4928.4000	39.03	0.74	39.77	74.00	-34.23	Peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------



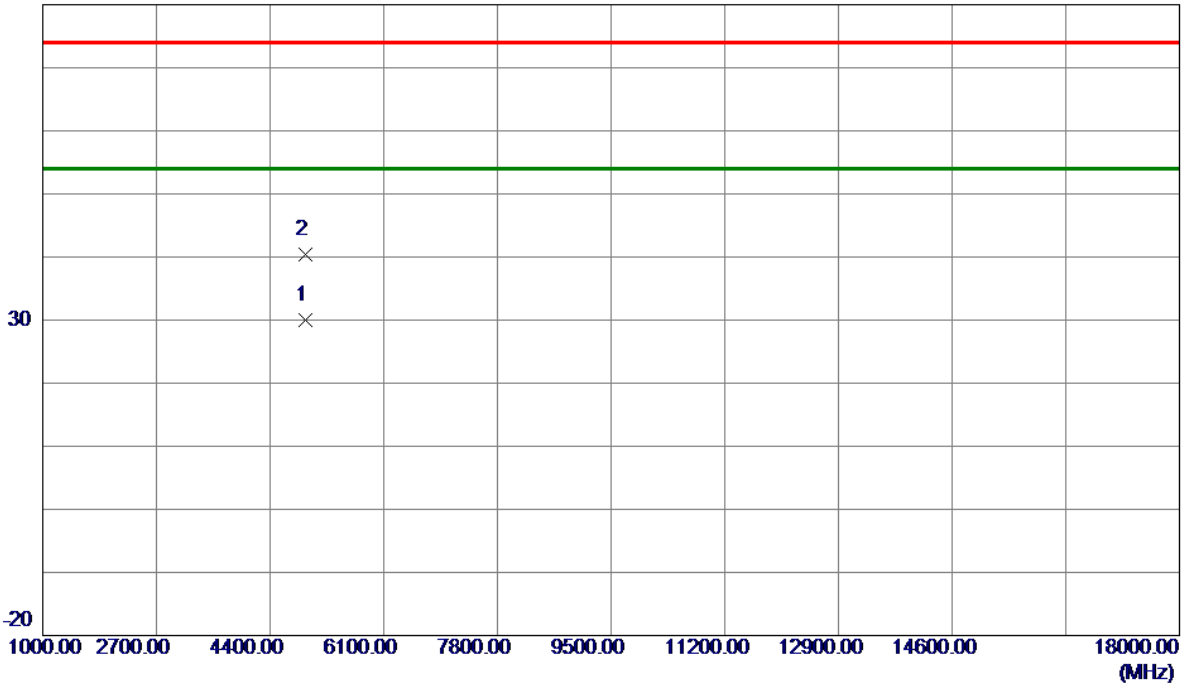
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	100.55	5.49	106.04	54.00	52.04	AVG	No Limit
2	2461.3000	107.97	5.49	113.46	74.00	39.46	Peak	No Limit
3	2483.5000	56.74	5.48	62.22	74.00	-11.78	Peak	
4	2483.5000	46.90	5.48	52.38	54.00	-1.62	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------

80 dBuV/m



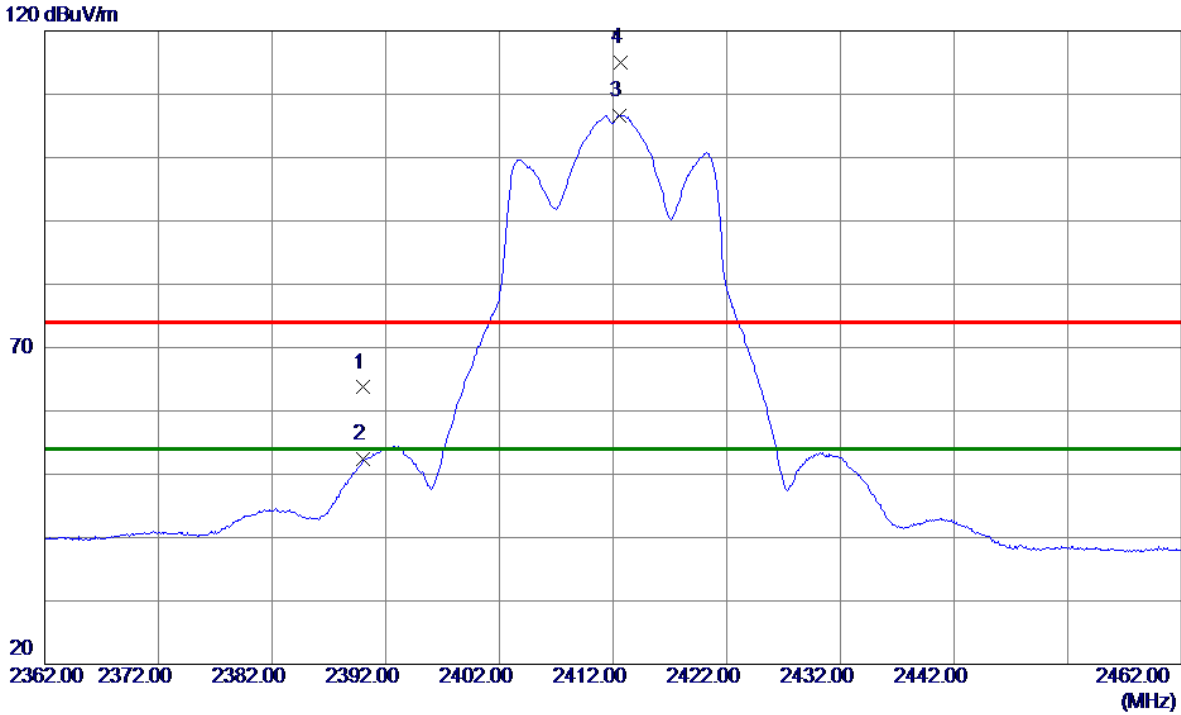
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.9750	29.19	0.73	29.92	54.00	-24.08	AVG	
2	4925.6750	39.63	0.74	40.37	74.00	-33.63	Peak	

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
-----------	--------------------------	--------------	----------



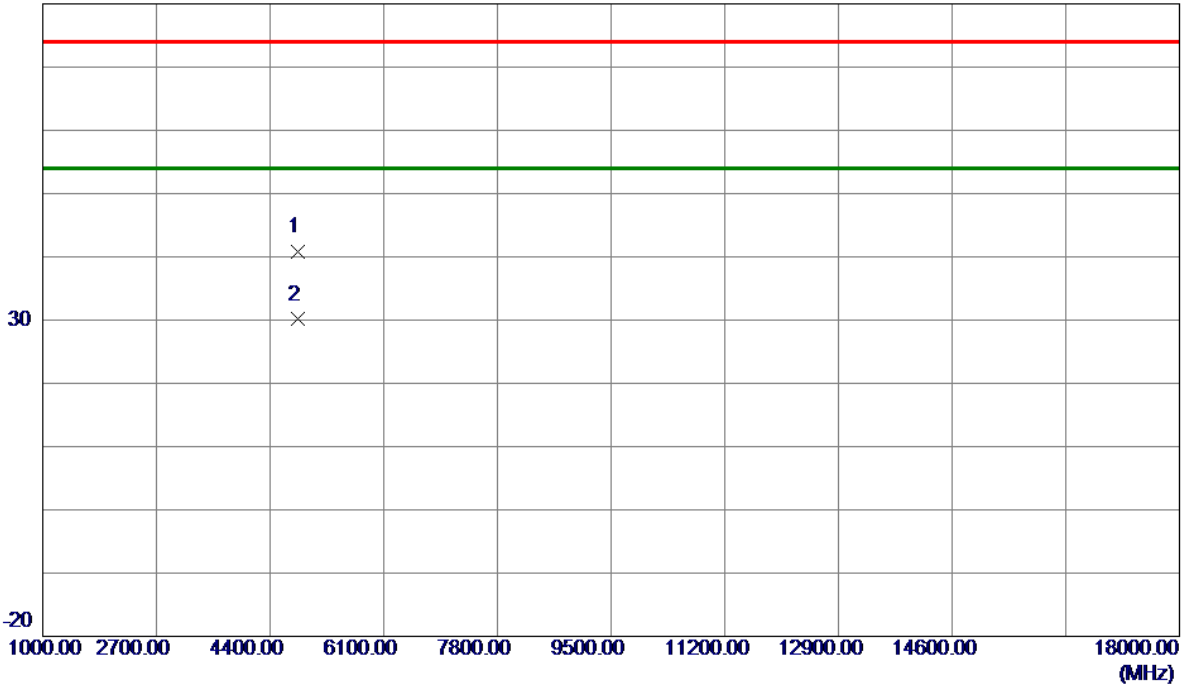
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.19	5.51	63.70	74.00	-10.30	Peak	
2	2390.0000	46.94	5.51	52.45	54.00	-1.55	AVG	
3 *	2412.6000	101.13	5.50	106.63	54.00	52.63	AVG	No Limit
4	2412.7000	109.42	5.50	114.92	74.00	40.92	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

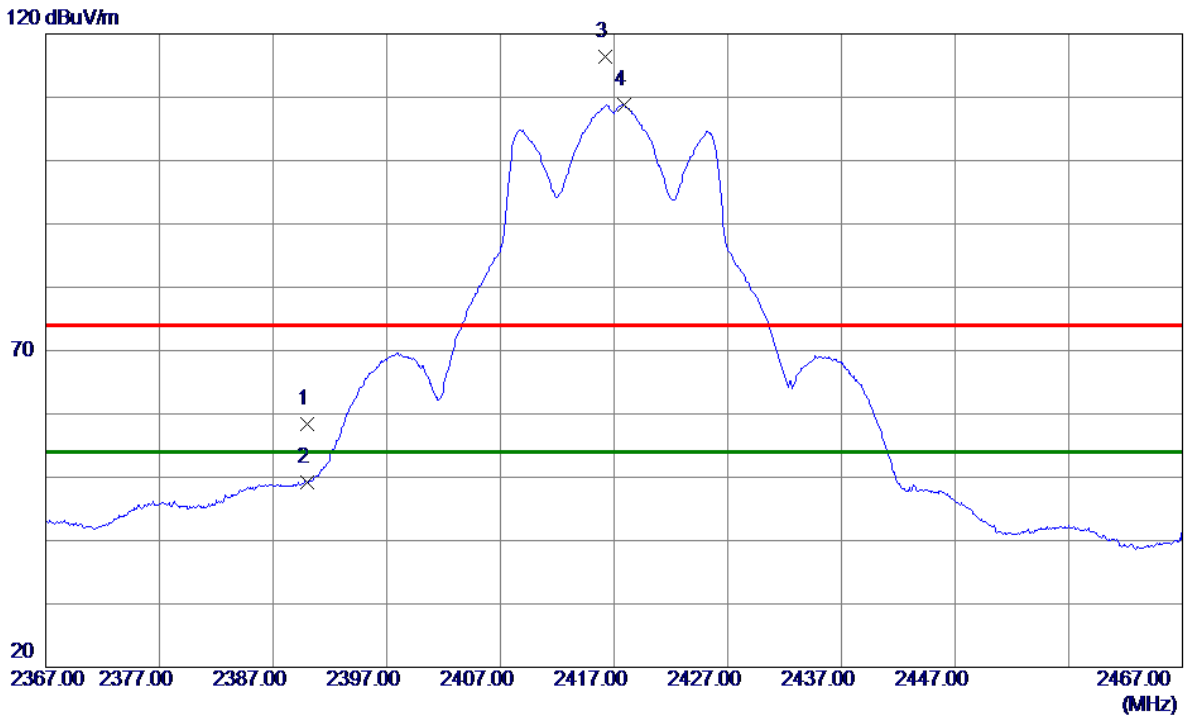


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.1000	40.32	0.45	40.77	74.00	-33.23	Peak	
2 *	4823.5000	29.64	0.46	30.10	54.00	-23.90	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
-----------	--------------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.94	5.51	58.45	74.00	-15.55	Peak	
2	2390.0000	43.60	5.51	49.11	54.00	-4.89	AVG	
3	2416.2500	110.97	5.50	116.47	74.00	42.47	Peak	No Limit
4 *	2417.8500	103.29	5.50	108.79	54.00	54.79	AVG	No Limit

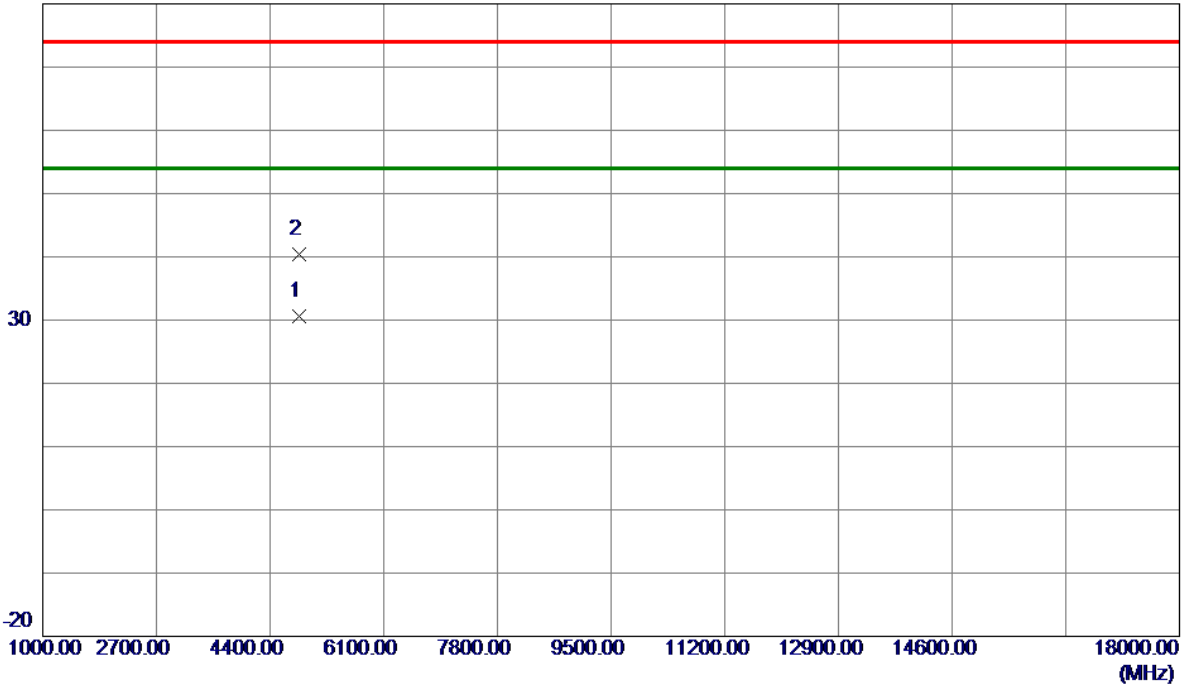
**REMARKS:**

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



Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

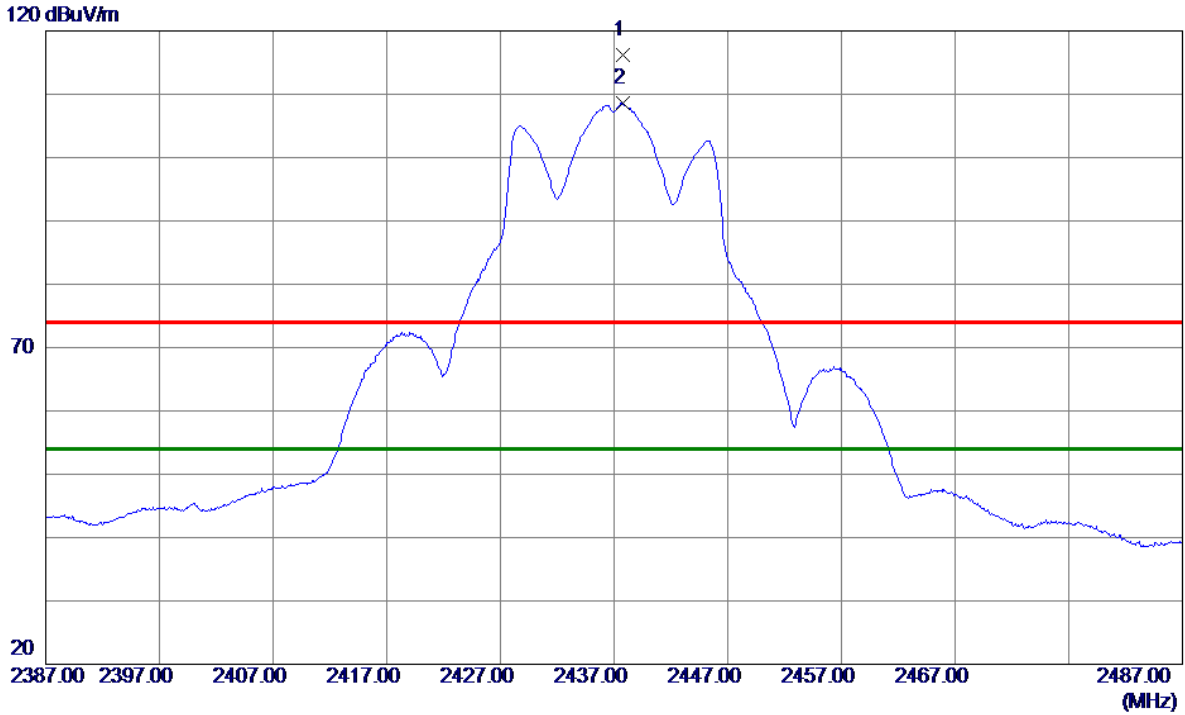


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4833.4250	30.08	0.49	30.57	54.00	-23.43	AVG	
2	4834.1250	39.88	0.49	40.37	74.00	-33.63	Peak	

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
-----------	--------------------------	--------------	----------



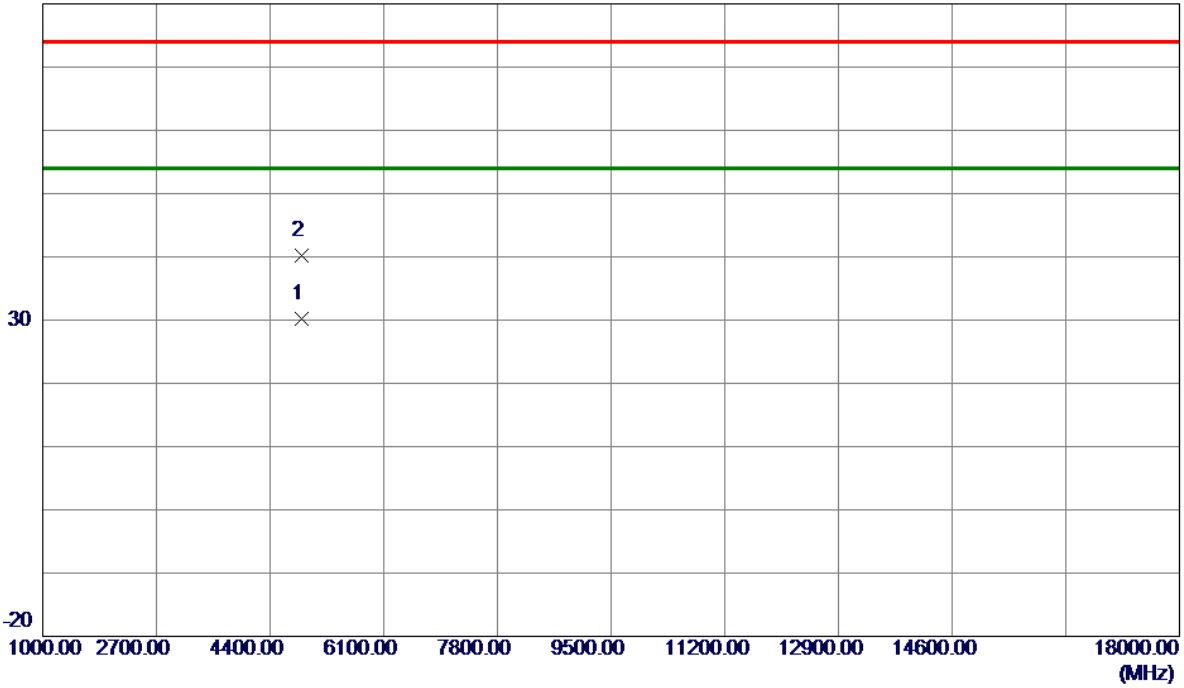
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.7500	110.70	5.50	116.20	74.00	42.20	Peak	No Limit
2 *	2437.7500	103.06	5.50	108.56	54.00	54.56	AVG	No Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

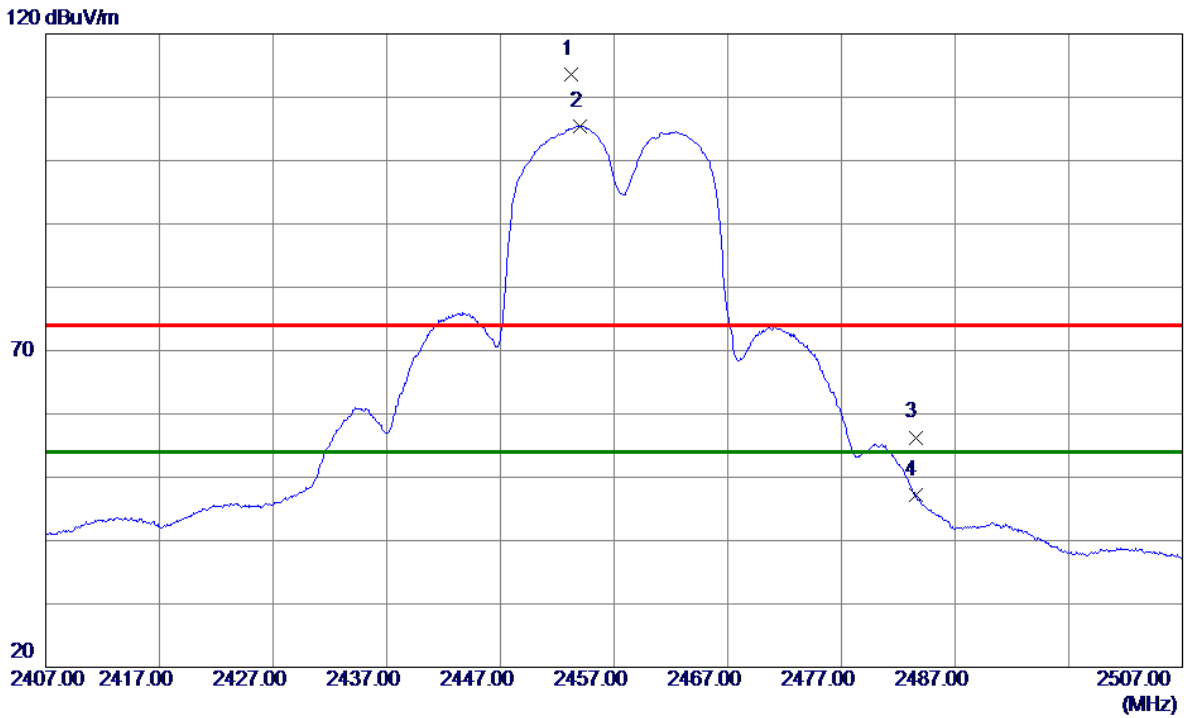


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.6000	29.60	0.59	30.19	54.00	-23.81	AVG	
2	4872.6250	39.53	0.59	40.12	74.00	-33.88	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical
-----------	--------------------------	--------------	----------



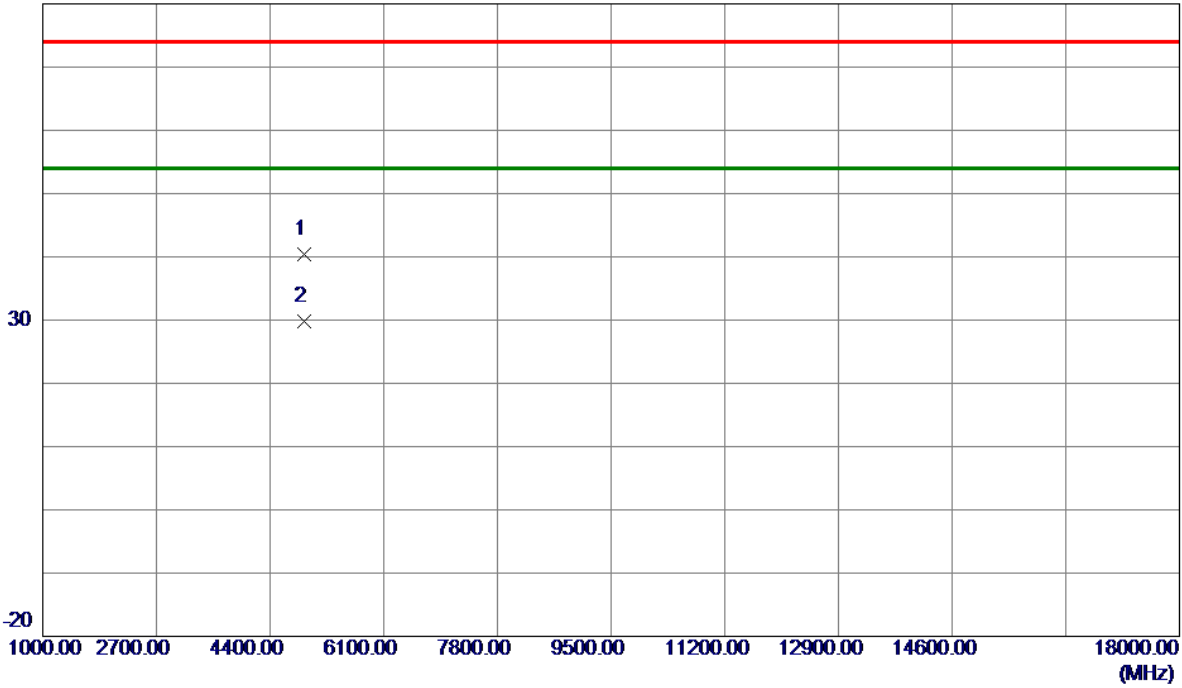
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2453.2000	108.20	5.49	113.69	74.00	39.69	Peak	No Limit
2 *	2454.0500	99.94	5.49	105.43	54.00	51.43	AVG	No Limit
3	2483.5000	50.82	5.48	56.30	74.00	-17.70	Peak	
4	2483.5000	41.69	5.48	47.17	54.00	-6.83	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m



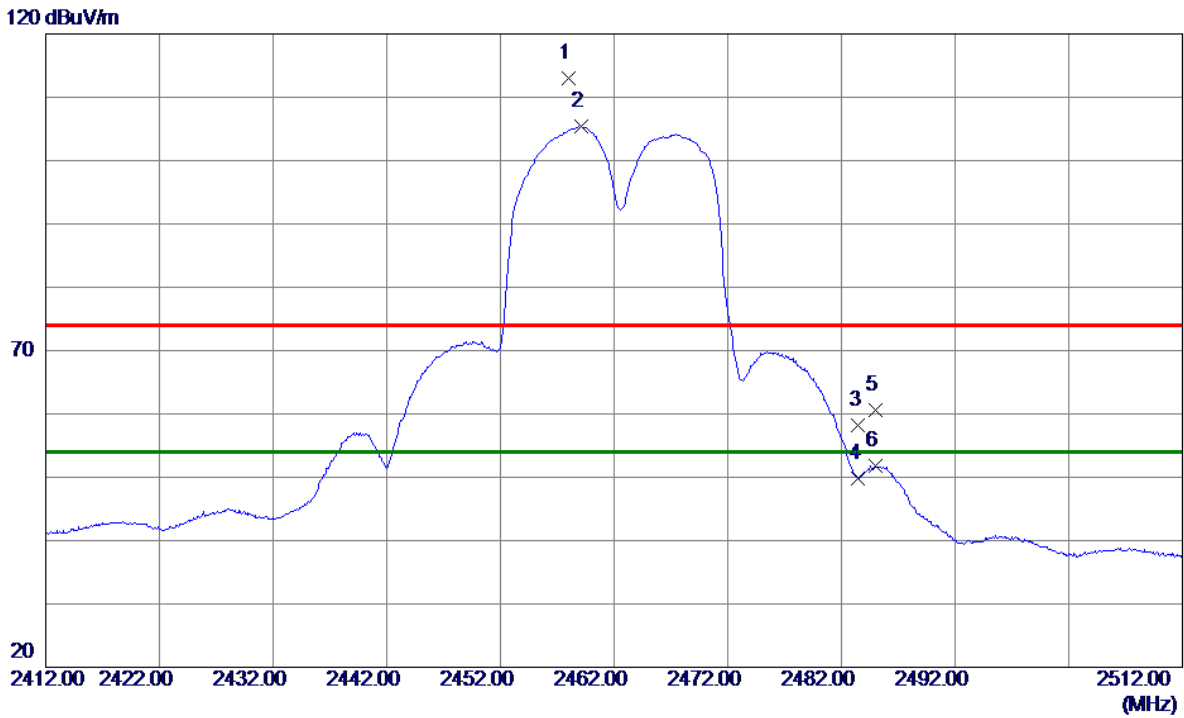
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4914.4750	39.63	0.71	40.34	74.00	-33.66	Peak	
2 *	4914.0500	29.07	0.71	29.78	54.00	-24.22	AVG	

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
-----------	--------------------------	--------------	----------



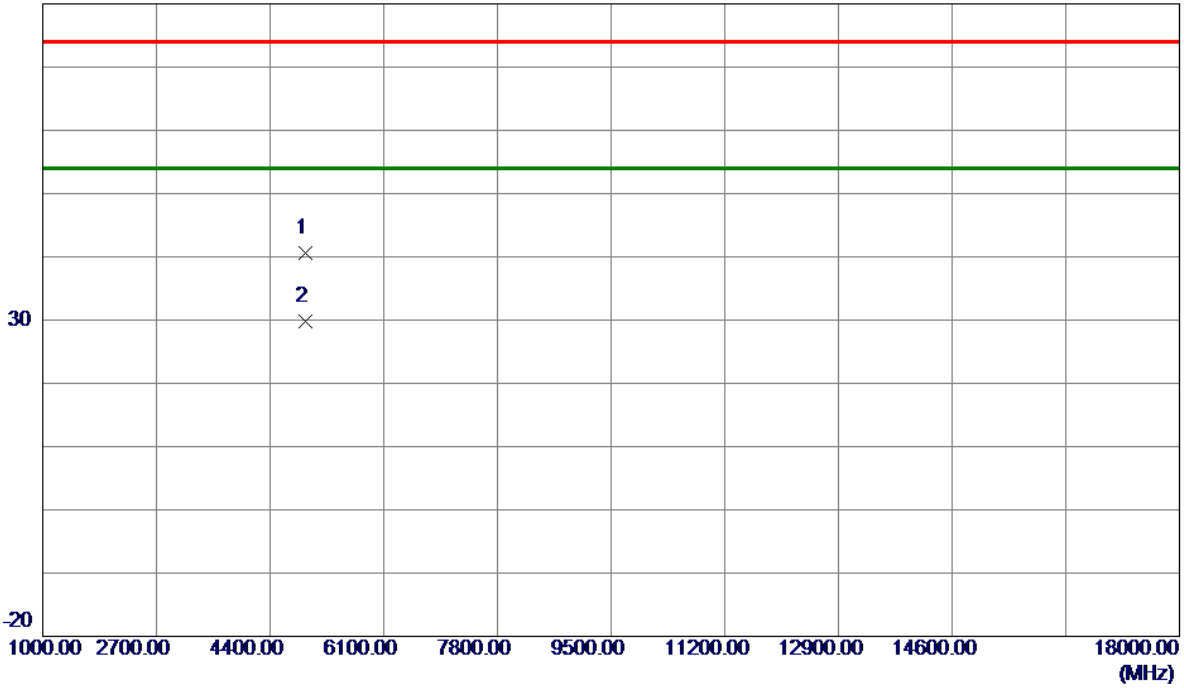
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.0000	107.56	5.49	113.05	74.00	39.05	Peak	No Limit
2 *	2459.1500	99.85	5.49	105.34	54.00	51.34	AVG	No Limit
3	2483.5000	52.77	5.48	58.25	74.00	-15.75	Peak	
4	2483.5000	44.31	5.48	49.79	54.00	-4.21	AVG	
5	2484.9500	55.08	5.48	60.56	74.00	-13.44	Peak	
6	2484.9500	46.28	5.48	51.76	54.00	-2.24	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
-----------	--------------------------	--------------	------------

80 dBuV/m

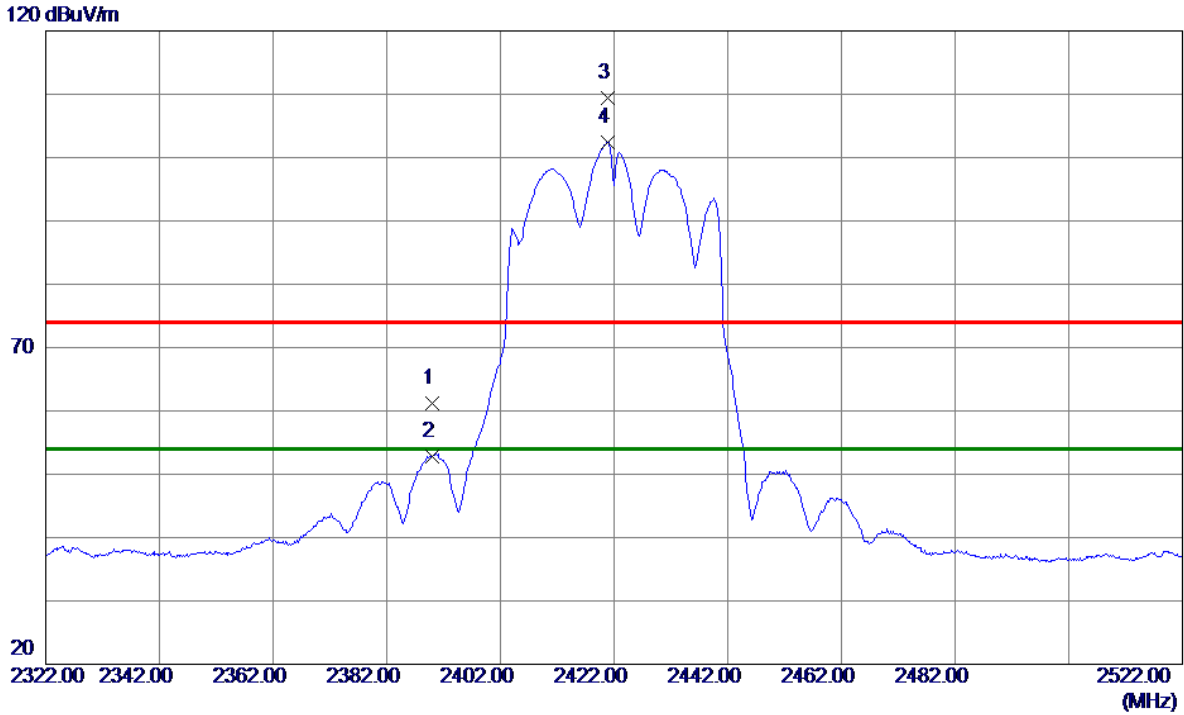


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.6000	39.84	0.73	40.57	74.00	-33.43	Peak	
2 *	4923.8250	29.12	0.73	29.85	54.00	-24.15	AVG	

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
-----------	--------------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.72	5.51	61.23	74.00	-12.77	Peak	
2	2390.0000	47.35	5.51	52.86	54.00	-1.14	AVG	
3	2420.9000	103.90	5.50	109.40	74.00	35.40	Peak	No Limit
4 *	2420.9000	96.86	5.50	102.36	54.00	48.36	AVG	No Limit

**REMARKS:**

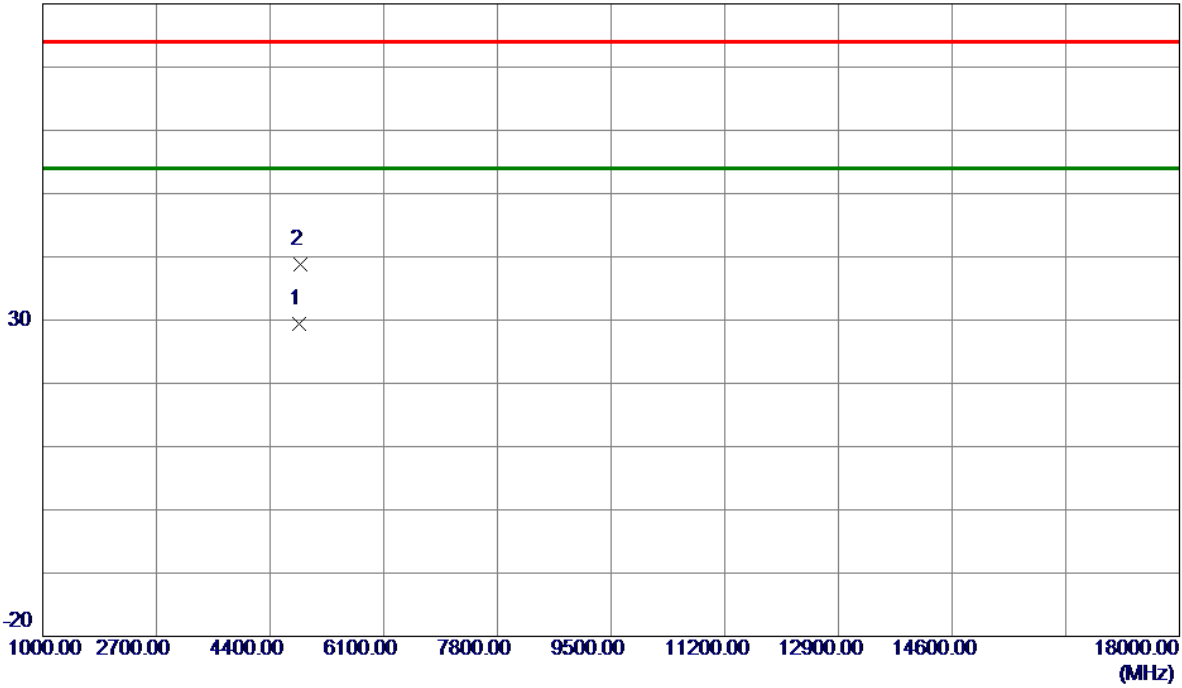
(1) Measurement Value = Reading Level + Correct Factor.

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



Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

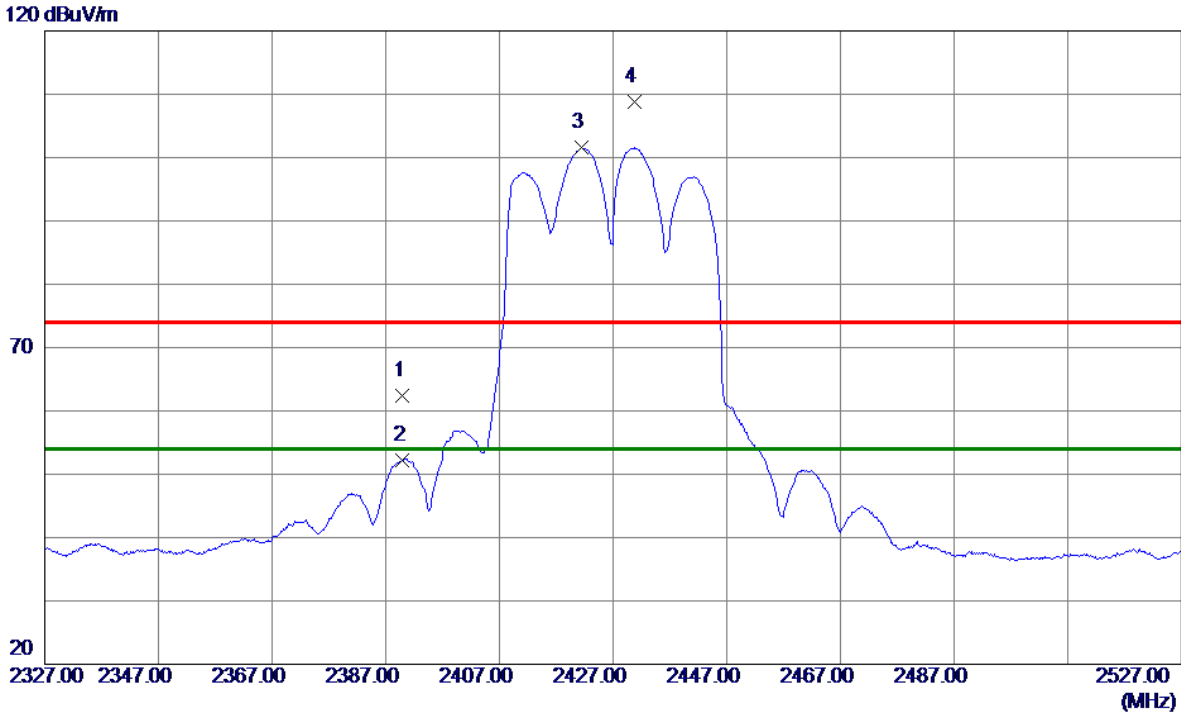


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4843.6750	28.82	0.51	29.33	54.00	-24.67	AVG	
2	4843.9500	38.37	0.51	38.88	74.00	-35.12	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Vertical
-----------	--------------------------	--------------	----------



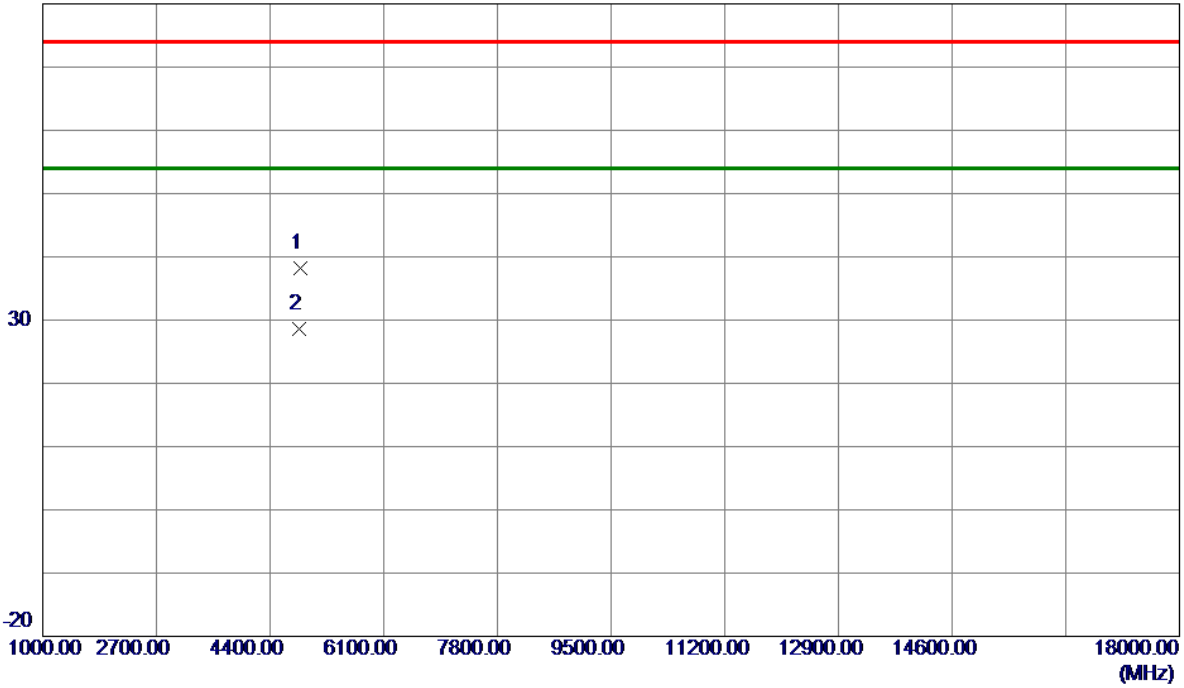
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.97	5.51	62.48	74.00	-11.52	Peak	
2	2390.0000	46.62	5.51	52.13	54.00	-1.87	AVG	
3 *	2421.5000	96.01	5.50	101.51	54.00	47.51	AVG	No Limit
4	2430.7000	103.37	5.50	108.87	74.00	34.87	Peak	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

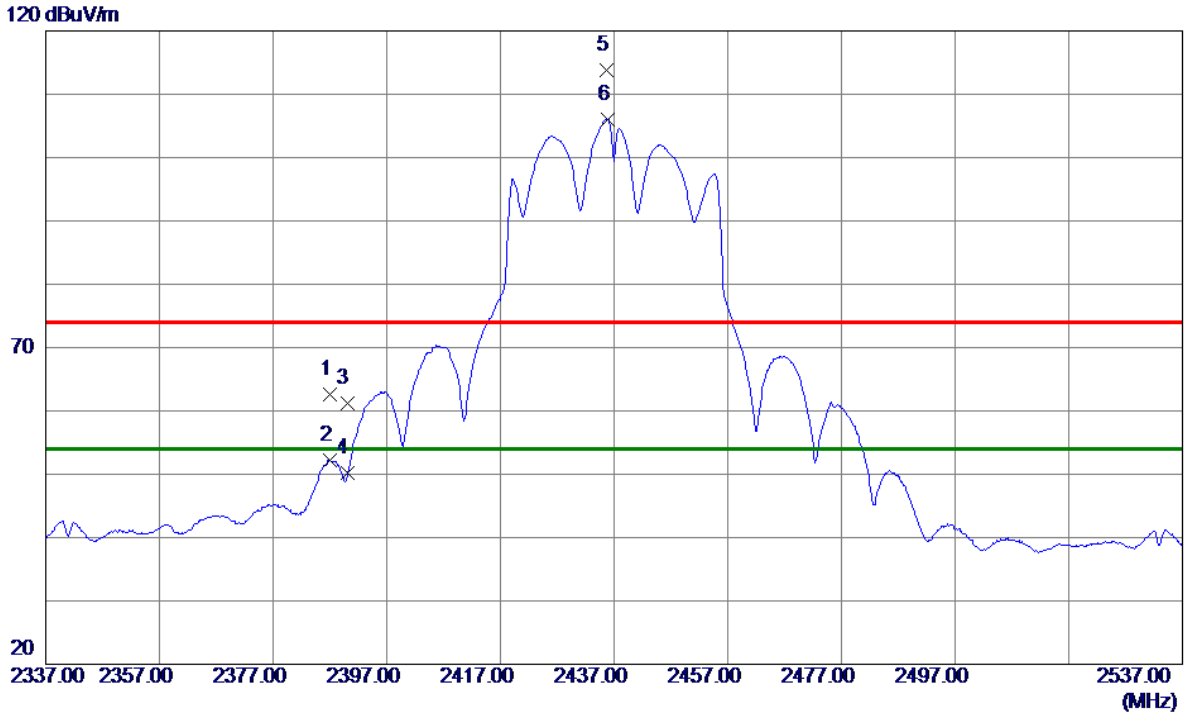


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.1000	37.62	0.51	38.13	74.00	-35.87	Peak	
2 *	4843.6500	28.08	0.51	28.59	54.00	-25.41	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
-----------	--------------------------	--------------	----------



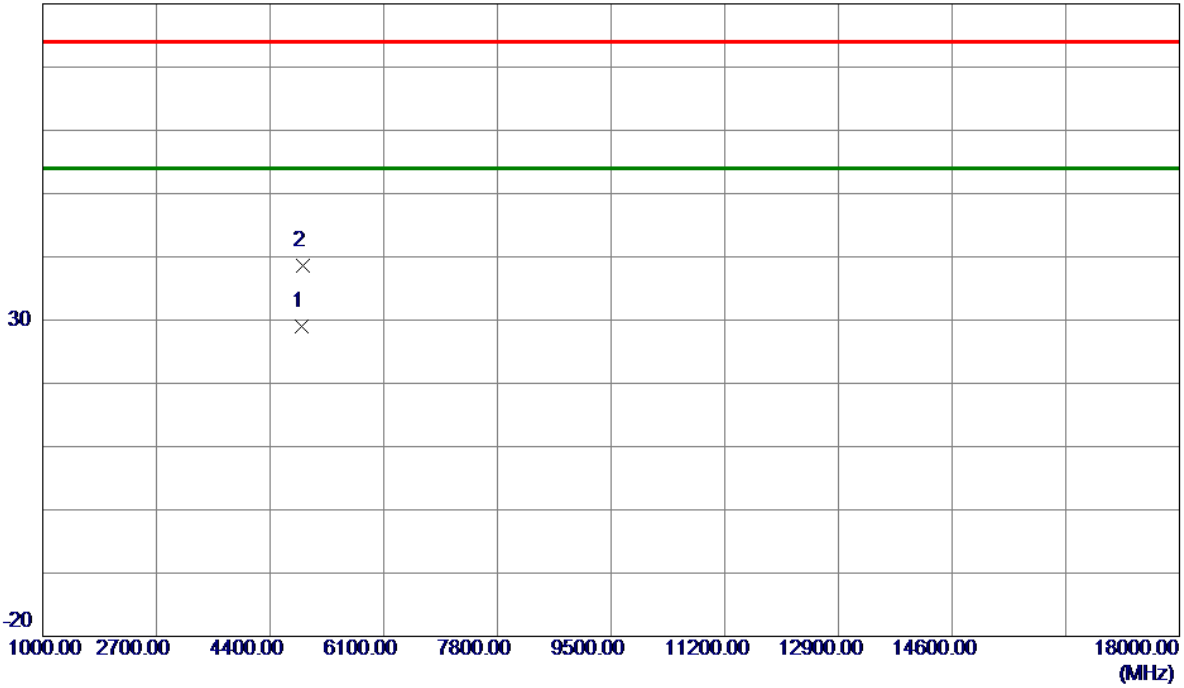
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.0000	57.11	5.51	62.62	74.00	-11.38	Peak	
2	2387.0000	46.76	5.51	52.27	54.00	-1.73	AVG	
3	2390.0000	55.73	5.51	61.24	74.00	-12.76	Peak	
4	2390.0000	44.62	5.51	50.13	54.00	-3.87	AVG	
5	2435.6000	108.27	5.50	113.77	74.00	39.77	Peak	No Limit
6 *	2435.8000	100.52	5.50	106.02	54.00	52.02	AVG	No Limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

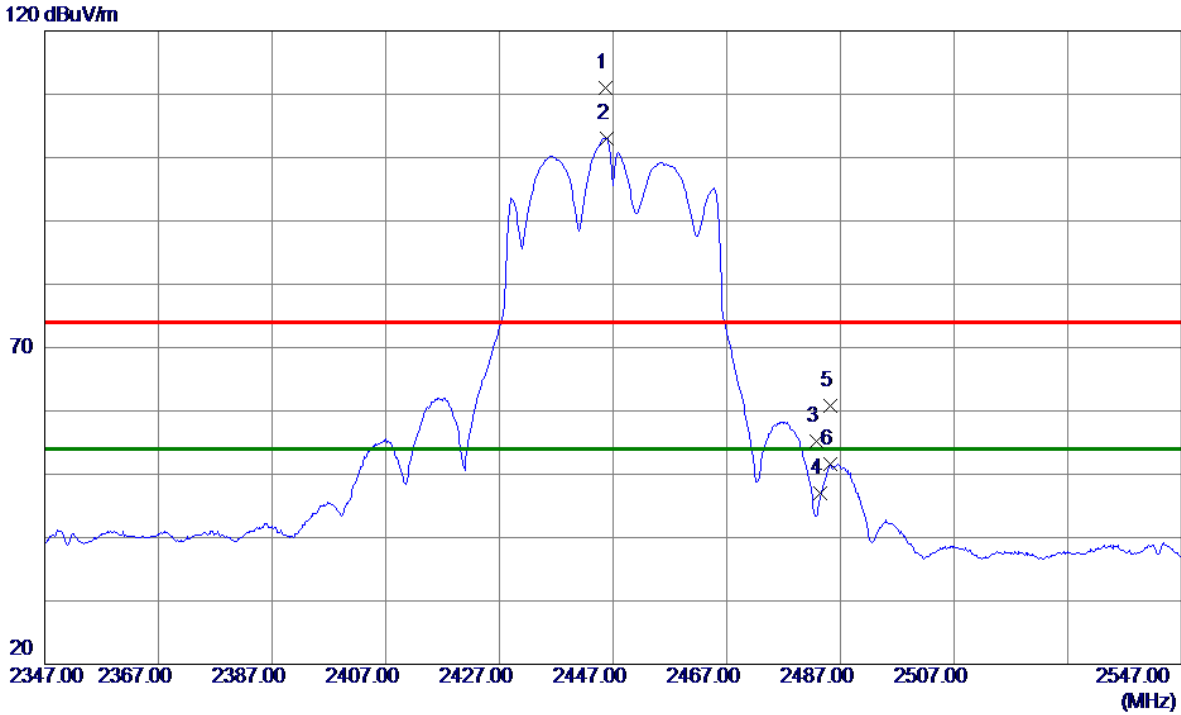


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4000	28.35	0.59	28.94	54.00	-25.06	AVG	
2	4882.7750	37.95	0.62	38.57	74.00	-35.43	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Vertical
-----------	--------------------------	--------------	----------



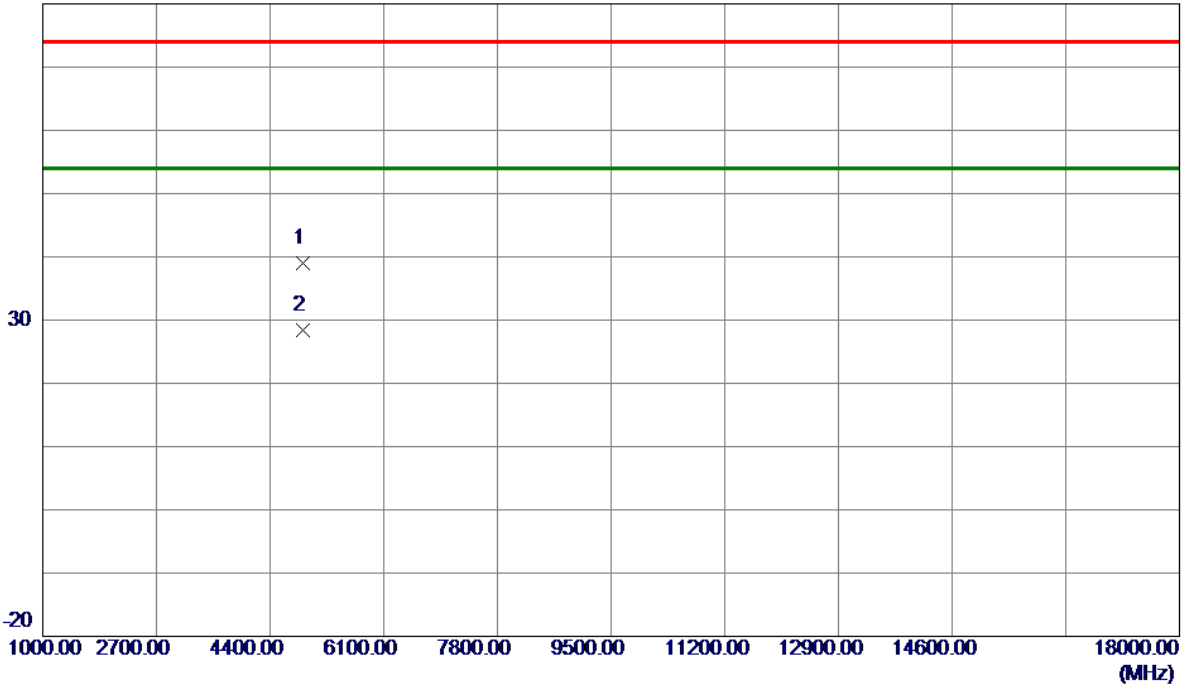
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.7000	105.58	5.50	111.08	74.00	37.08	Peak	No Limit
2 *	2445.8000	97.54	5.50	103.04	54.00	49.04	AVG	No Limit
3	2482.7000	49.81	5.48	55.29	74.00	-18.71	Peak	
4	2483.5000	41.52	5.48	47.00	54.00	-7.00	AVG	
5	2485.2000	55.33	5.48	60.81	74.00	-13.19	Peak	
6	2485.2000	46.07	5.48	51.55	54.00	-2.45	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Horizontal
-----------	--------------------------	--------------	------------

80 dBuV/m

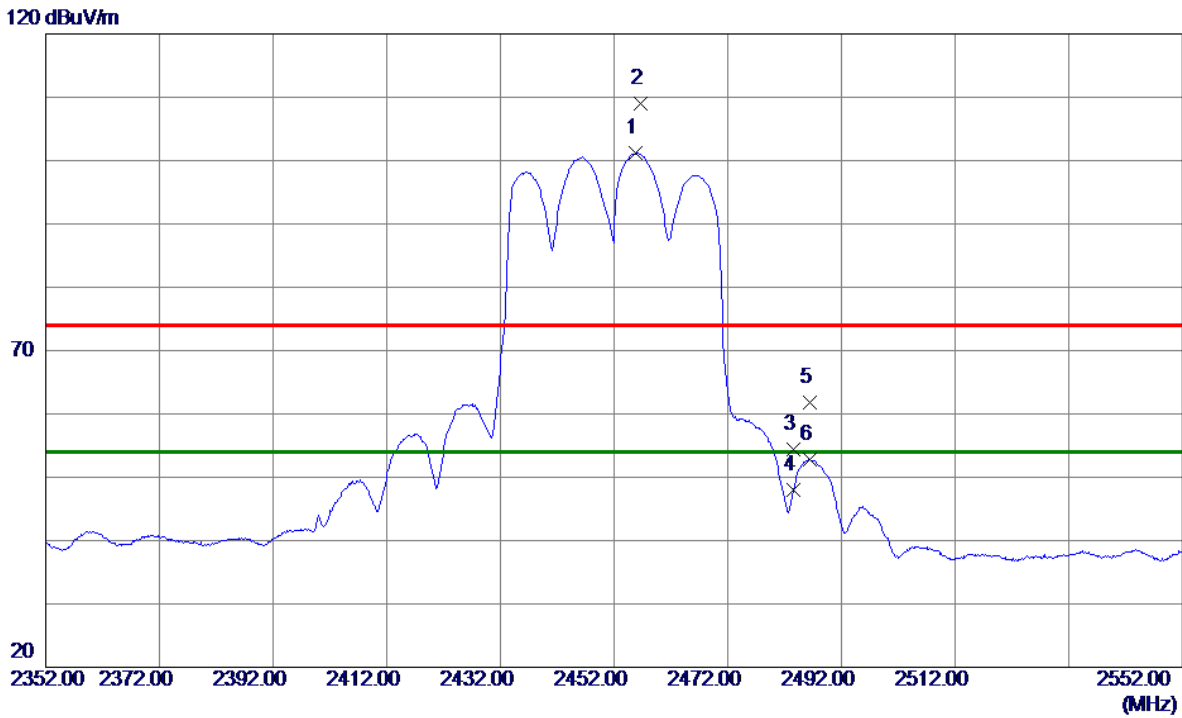


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4882.0000	38.47	0.62	39.09	74.00	-34.91	Peak	
2 *	4883.3500	27.79	0.62	28.41	54.00	-25.59	AVG	

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
-----------	--------------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.7000	95.67	5.49	101.16	54.00	47.16	AVG	No Limit
2	2456.6000	103.42	5.49	108.91	74.00	34.91	Peak	No Limit
3	2483.5000	48.91	5.48	54.39	74.00	-19.61	Peak	
4	2483.5000	42.44	5.48	47.92	54.00	-6.08	AVG	
5	2486.5000	56.31	5.48	61.79	74.00	-12.21	Peak	
6	2486.5000	47.29	5.48	52.77	54.00	-1.23	AVG	

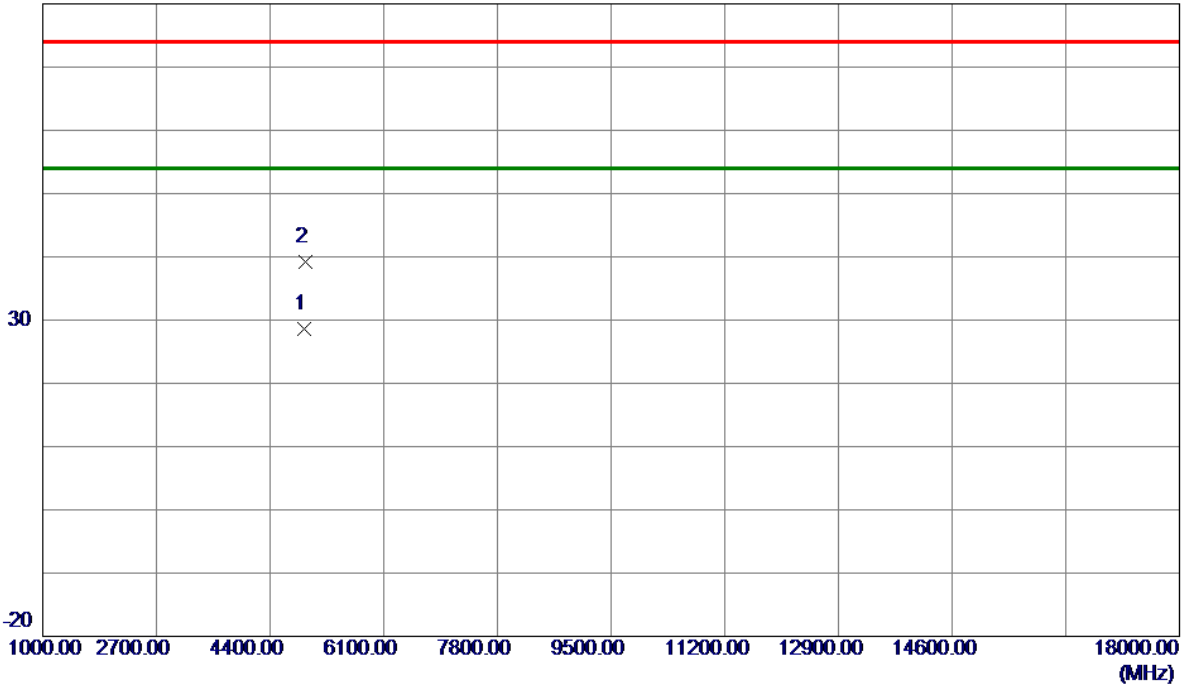
**REMARKS:**

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



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

80 dBuV/m

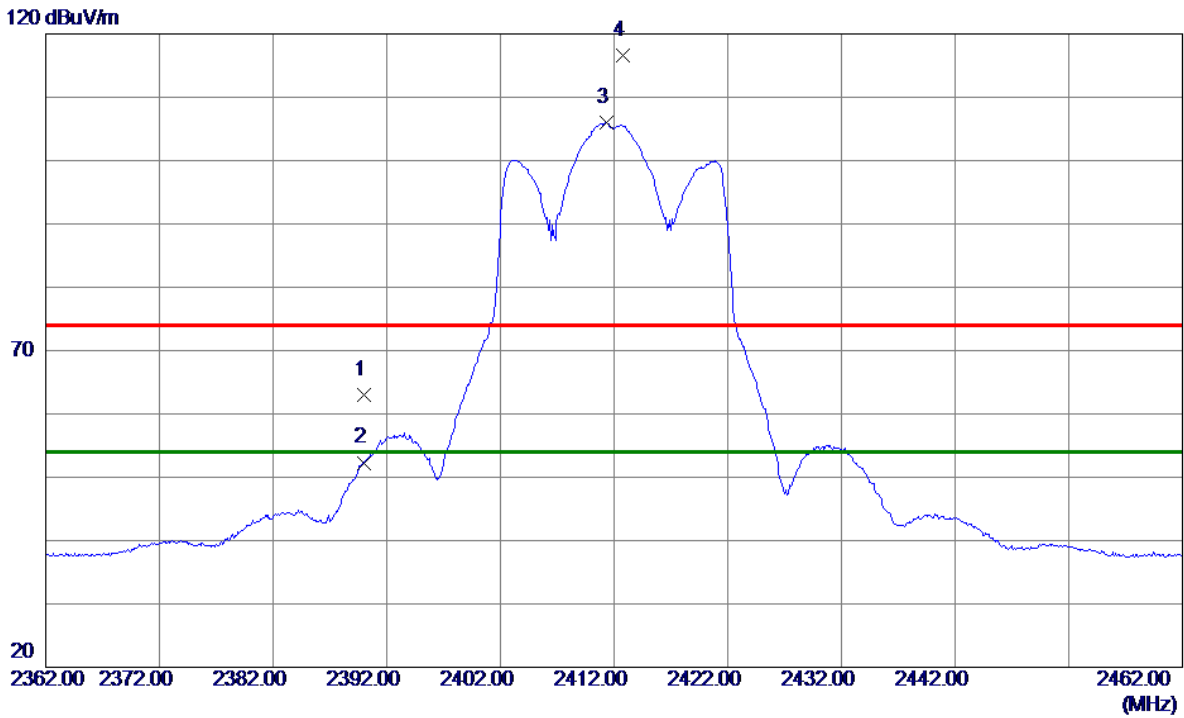


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.3750	27.89	0.70	28.59	54.00	-25.41	AVG	
2	4923.1250	38.48	0.73	39.21	74.00	-34.79	Peak	

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
-----------	---------------------------	--------------	----------



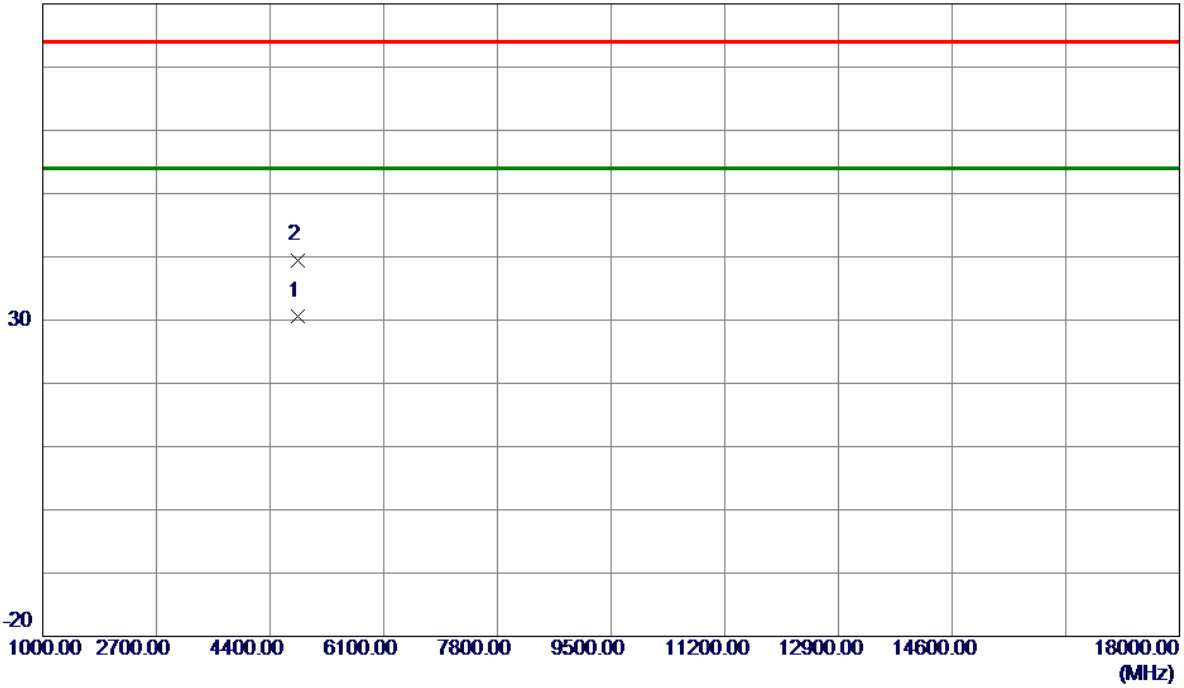
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.42	5.51	62.93	74.00	-11.07	Peak	
2	2390.0000	46.79	5.51	52.30	54.00	-1.70	AVG	
3 *	2411.3000	100.46	5.50	105.96	54.00	51.96	AVG	No Limit
4	2412.8000	111.02	5.50	116.52	74.00	42.52	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

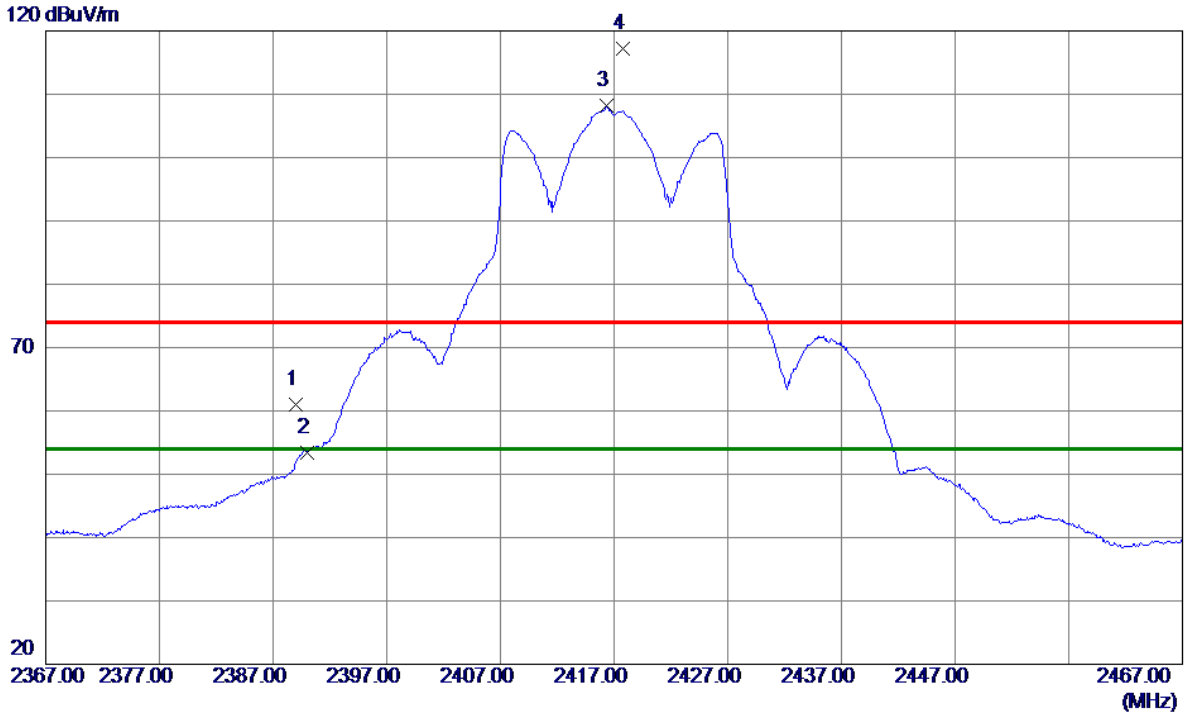


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4820.8500	30.14	0.45	30.59	54.00	-23.41	AVG	
2	4821.0750	39.05	0.45	39.50	74.00	-34.50	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



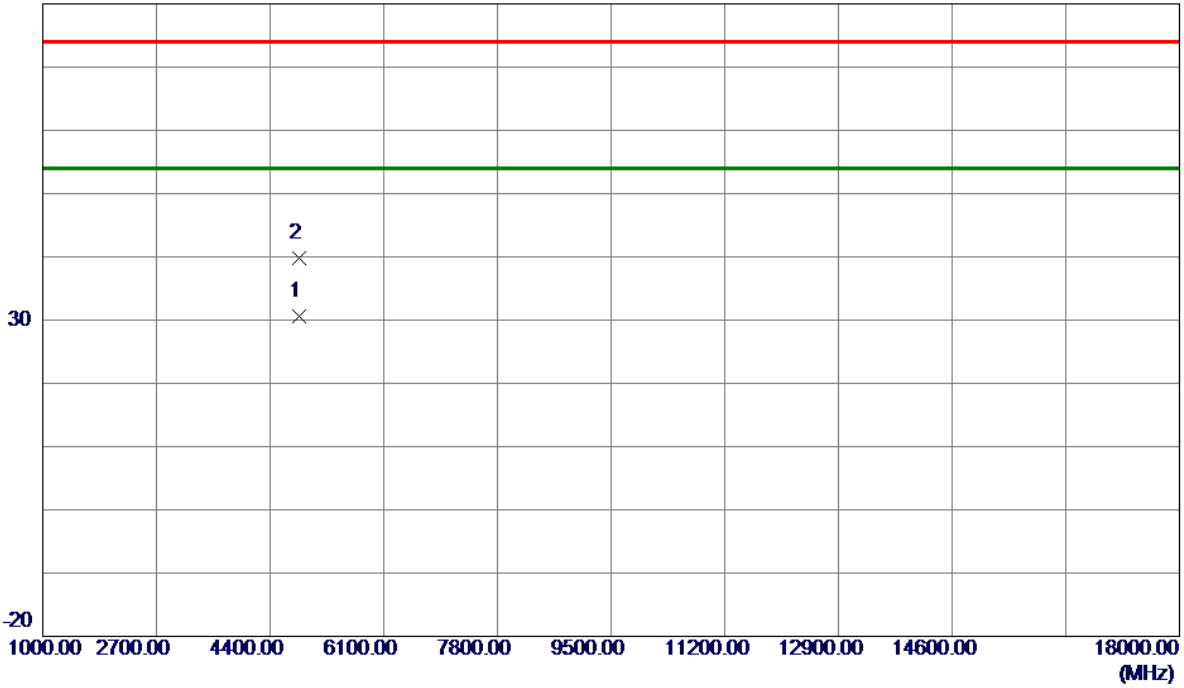
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.0000	55.45	5.51	60.96	74.00	-13.04	Peak	
2	2390.0000	47.90	5.51	53.41	54.00	-0.59	AVG	
3 *	2416.3500	102.62	5.50	108.12	54.00	54.12	AVG	No Limit
4	2417.8000	111.68	5.50	117.18	74.00	43.18	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

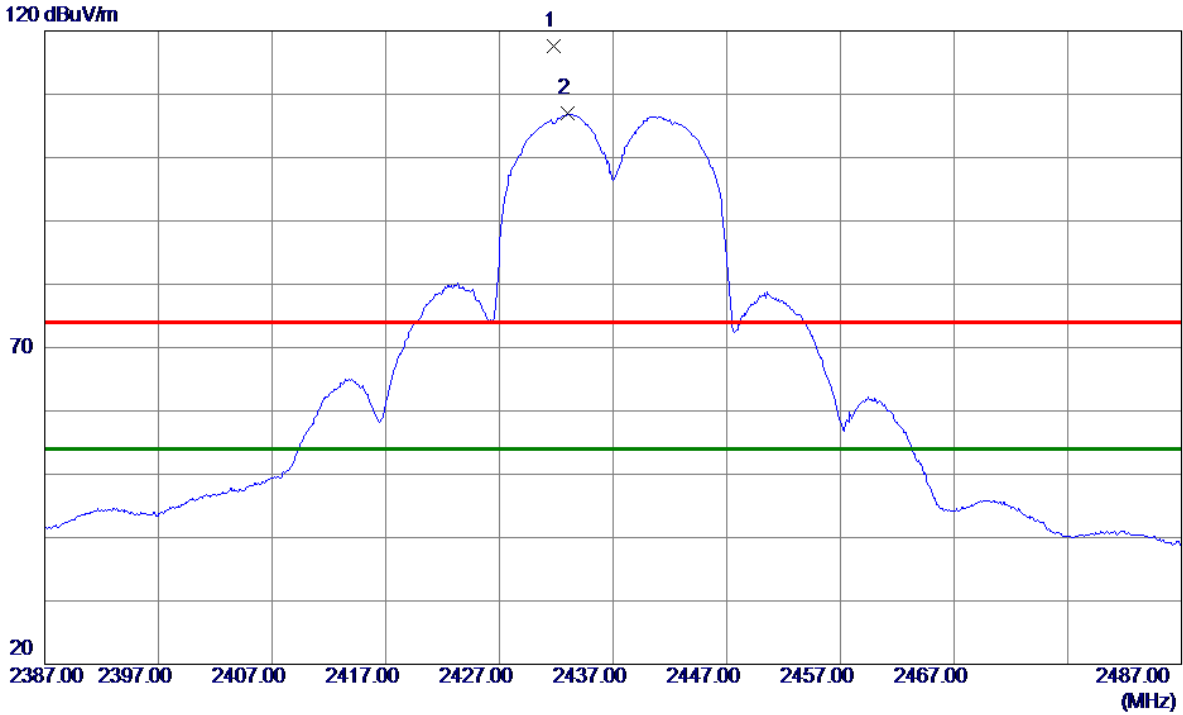


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4839.2500	30.03	0.50	30.53	54.00	-23.47	AVG	
2	4842.9250	39.24	0.51	39.75	74.00	-34.25	Peak	

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
-----------	---------------------------	--------------	----------



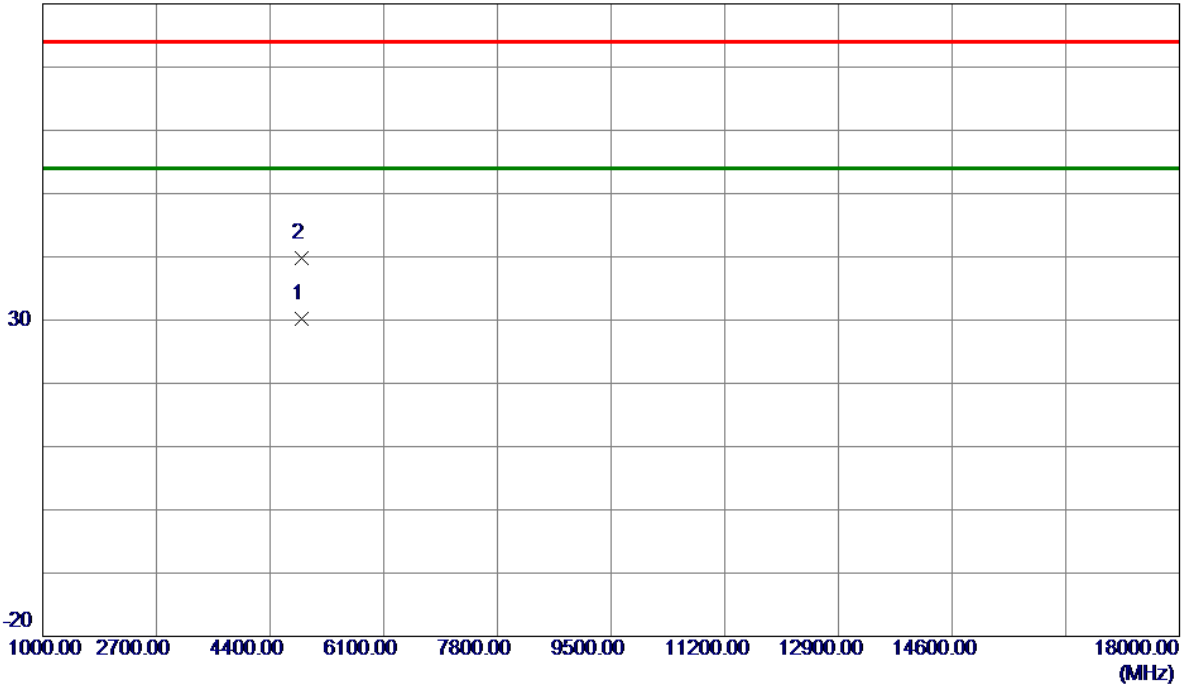
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.7500	112.10	5.50	117.60	74.00	43.60	Peak	No Limit
2 *	2432.9500	101.44	5.50	106.94	54.00	52.94	AVG	No Limit

**REMARKS:**

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

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

80 dBuV/m

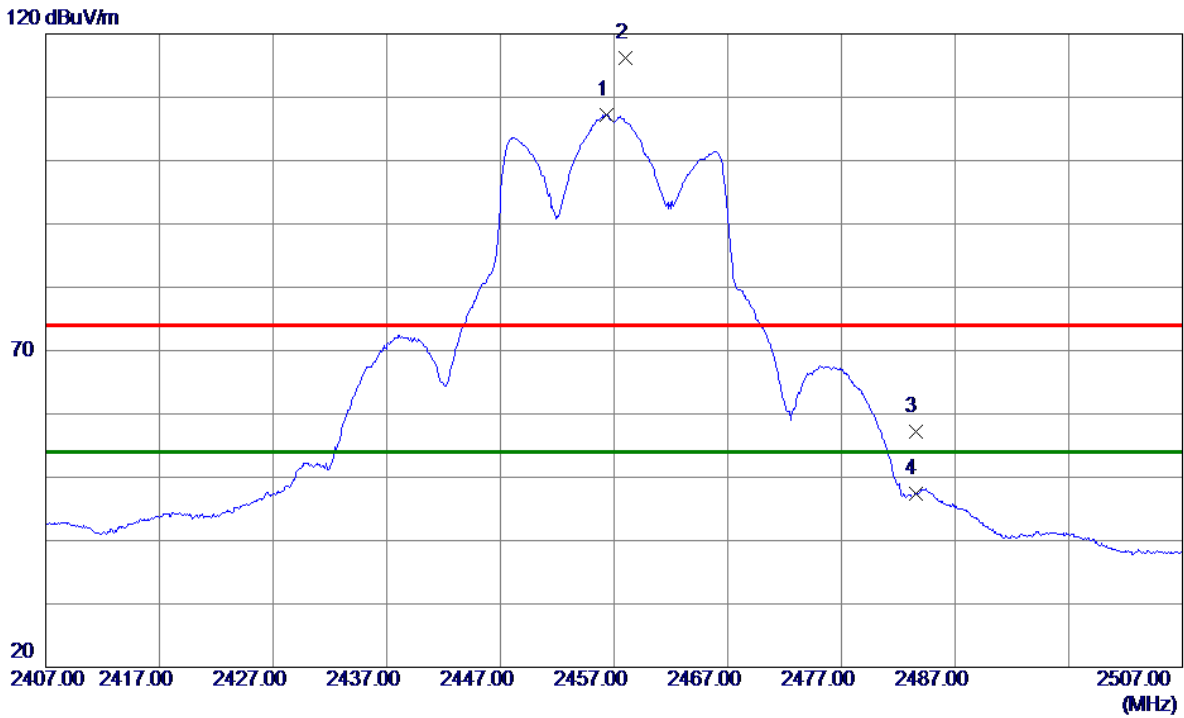


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4869.8750	29.71	0.58	30.29	54.00	-23.71	AVG	
2	4879.4750	39.20	0.61	39.81	74.00	-34.19	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.3500	101.71	5.49	107.20	54.00	53.20	AVG	No Limit
2	2457.9500	110.69	5.49	116.18	74.00	42.18	Peak	No Limit
3	2483.5000	51.74	5.48	57.22	74.00	-16.78	Peak	
4	2483.5000	42.00	5.48	47.48	54.00	-6.52	AVG	

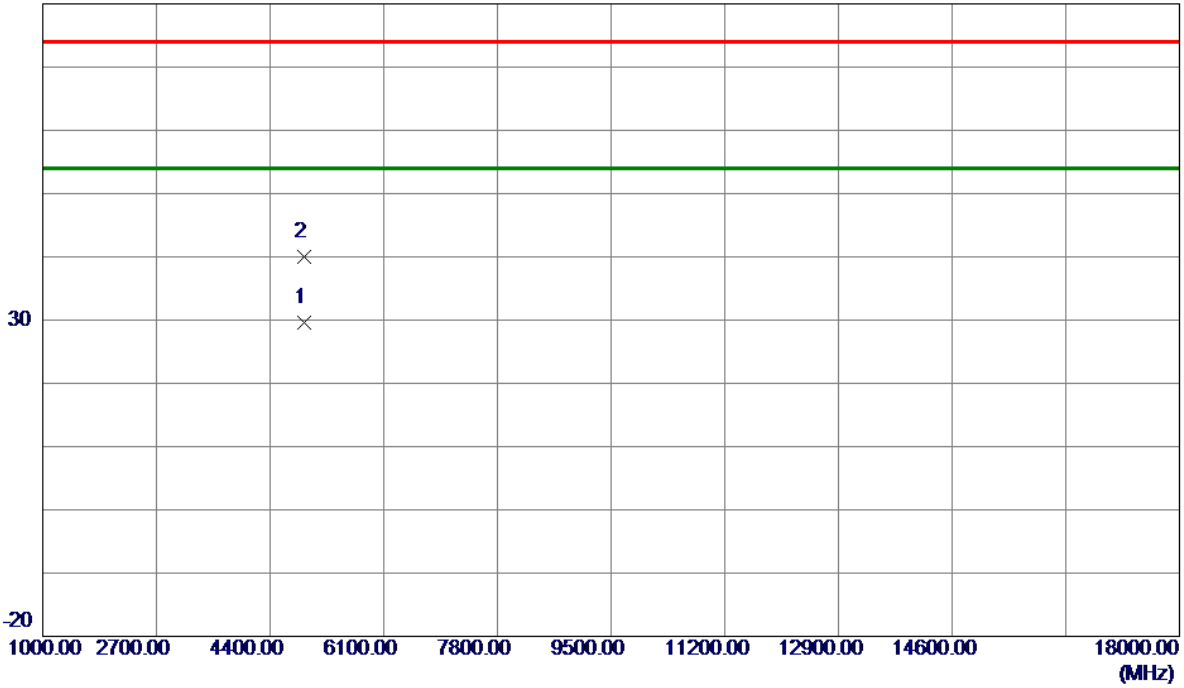
**REMARKS:**

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



Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

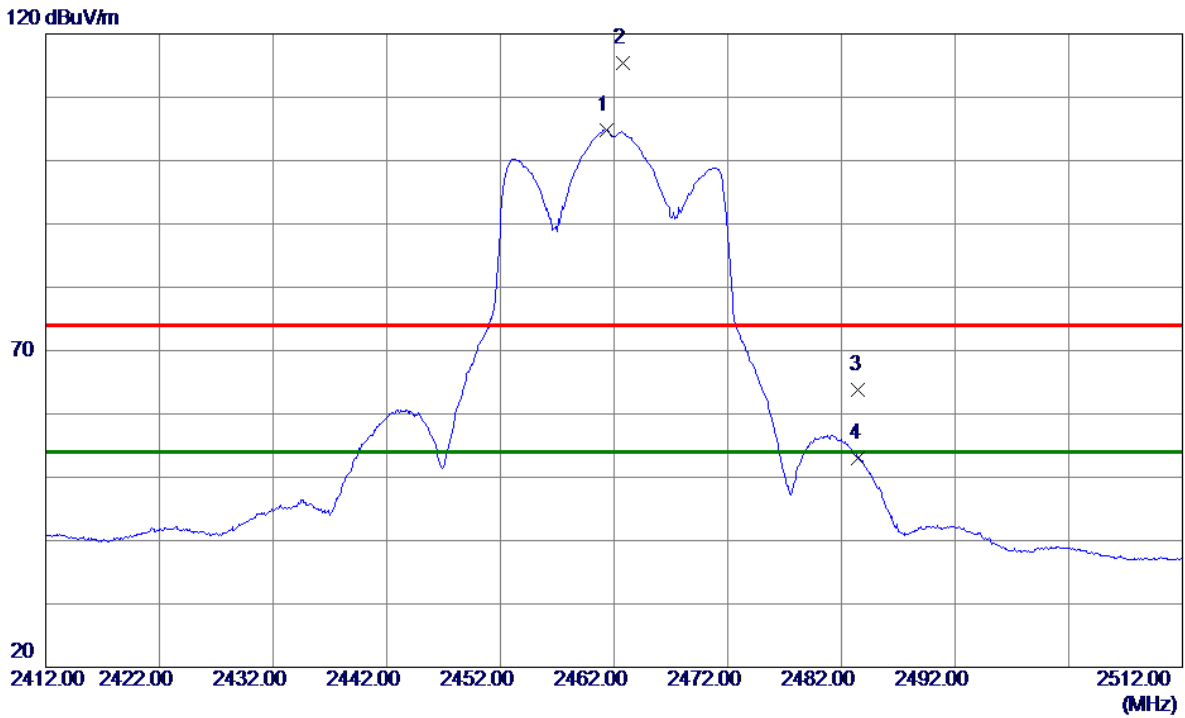


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4909.3500	28.96	0.69	29.65	54.00	-24.35	AVG	
2	4919.0250	39.32	0.72	40.04	74.00	-33.96	Peak	

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
-----------	---------------------------	--------------	----------



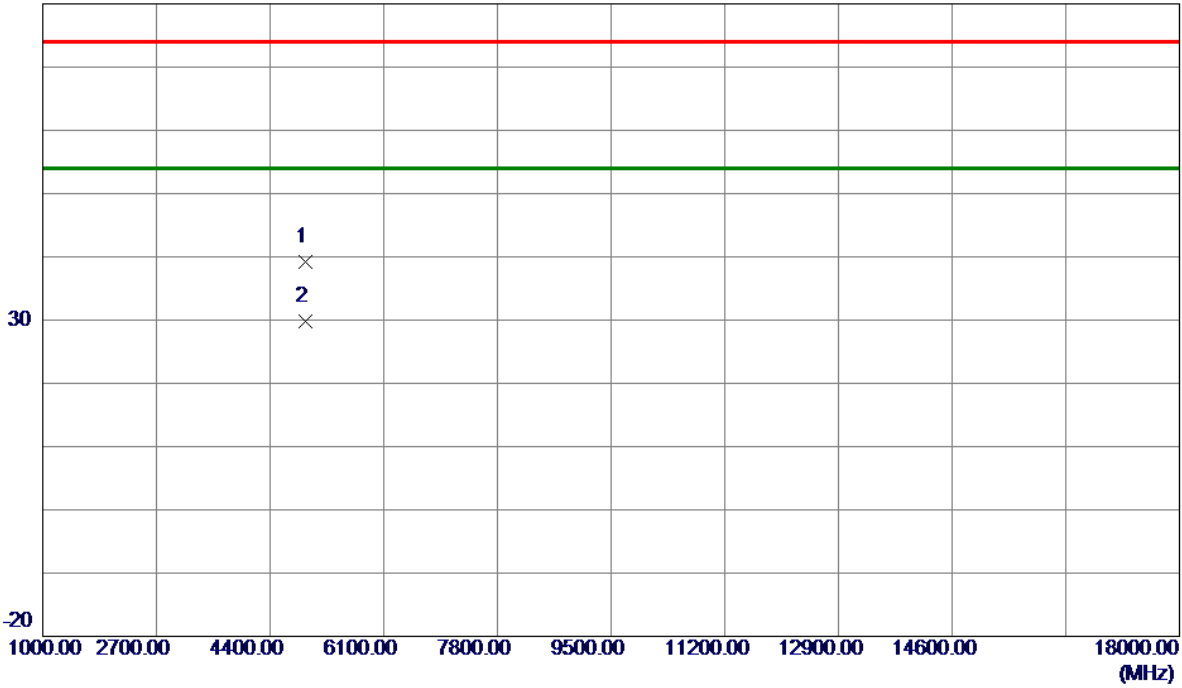
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3500	99.23	5.49	104.72	54.00	50.72	AVG	No Limit
2	2462.7500	109.99	5.49	115.48	74.00	41.48	Peak	No Limit
3	2483.5000	58.33	5.48	63.81	74.00	-10.19	Peak	
4	2483.5000	47.52	5.48	53.00	54.00	-1.00	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
-----------	---------------------------	--------------	------------

80 dBuV/m

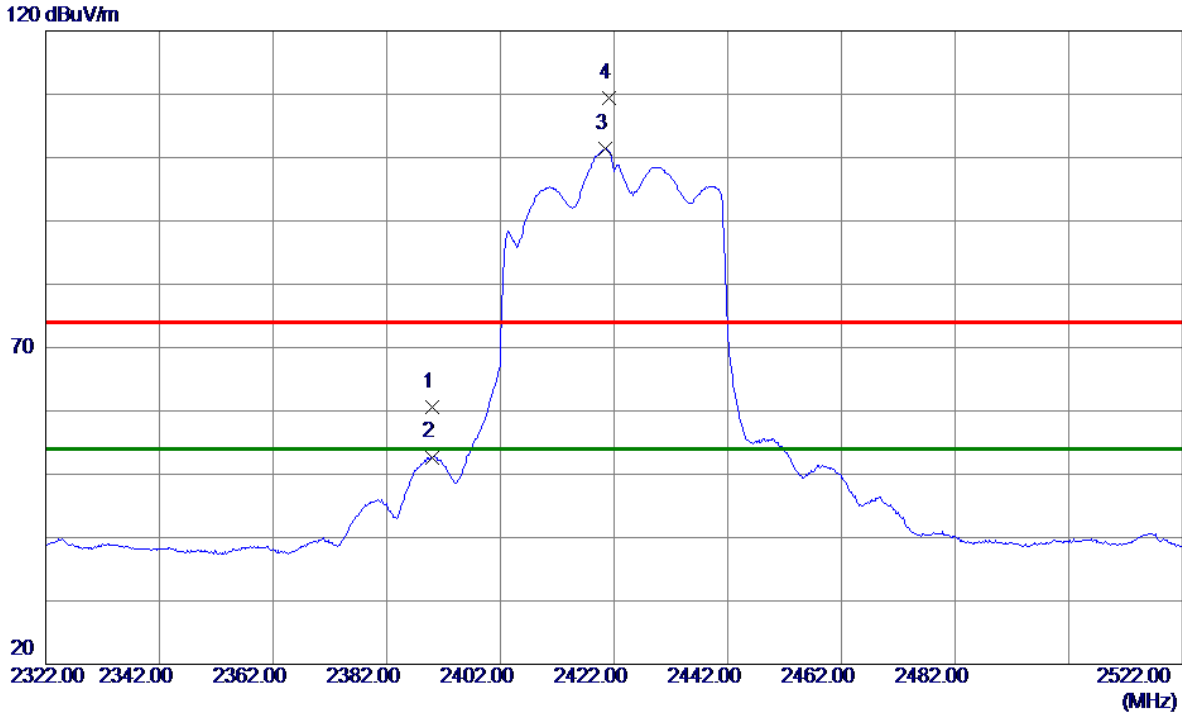


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.5250	38.45	0.74	39.19	74.00	-34.81	Peak	
2 *	4928.9500	29.14	0.75	29.89	54.00	-24.11	AVG	

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
-----------	---------------------------	--------------	----------



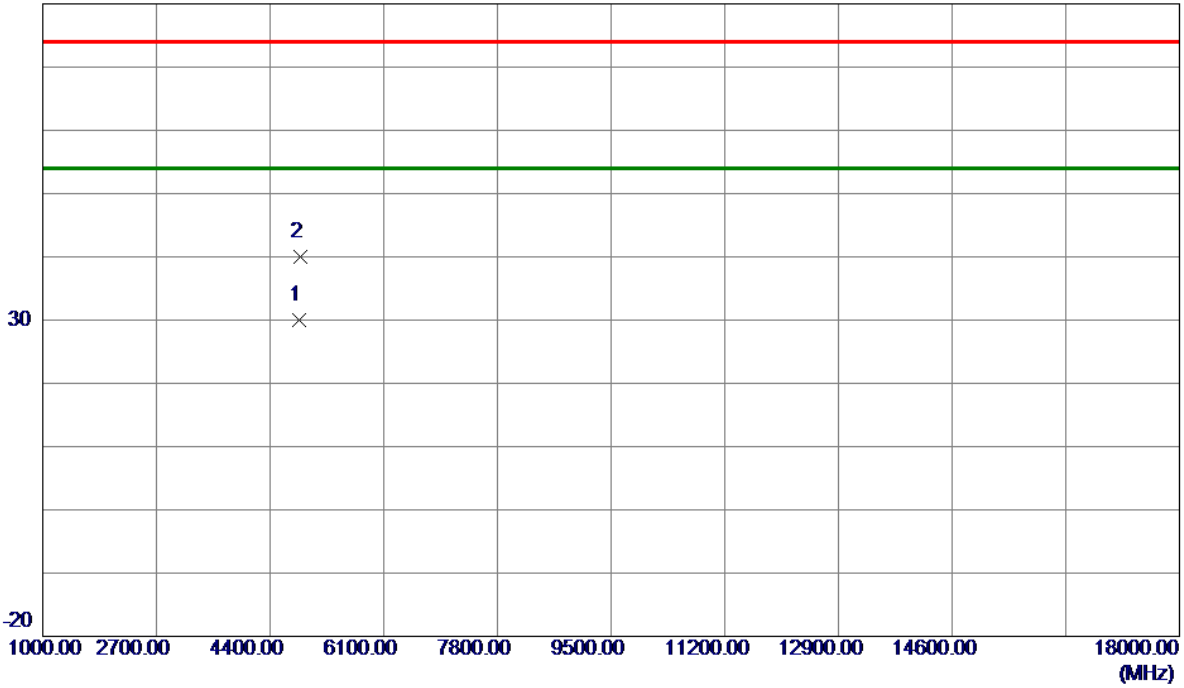
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.06	5.51	60.57	74.00	-13.43	Peak	
2	2390.0000	47.19	5.51	52.70	54.00	-1.30	AVG	
3 *	2420.5000	95.86	5.50	101.36	54.00	47.36	AVG	No Limit
4	2421.1000	103.85	5.50	109.35	74.00	35.35	Peak	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

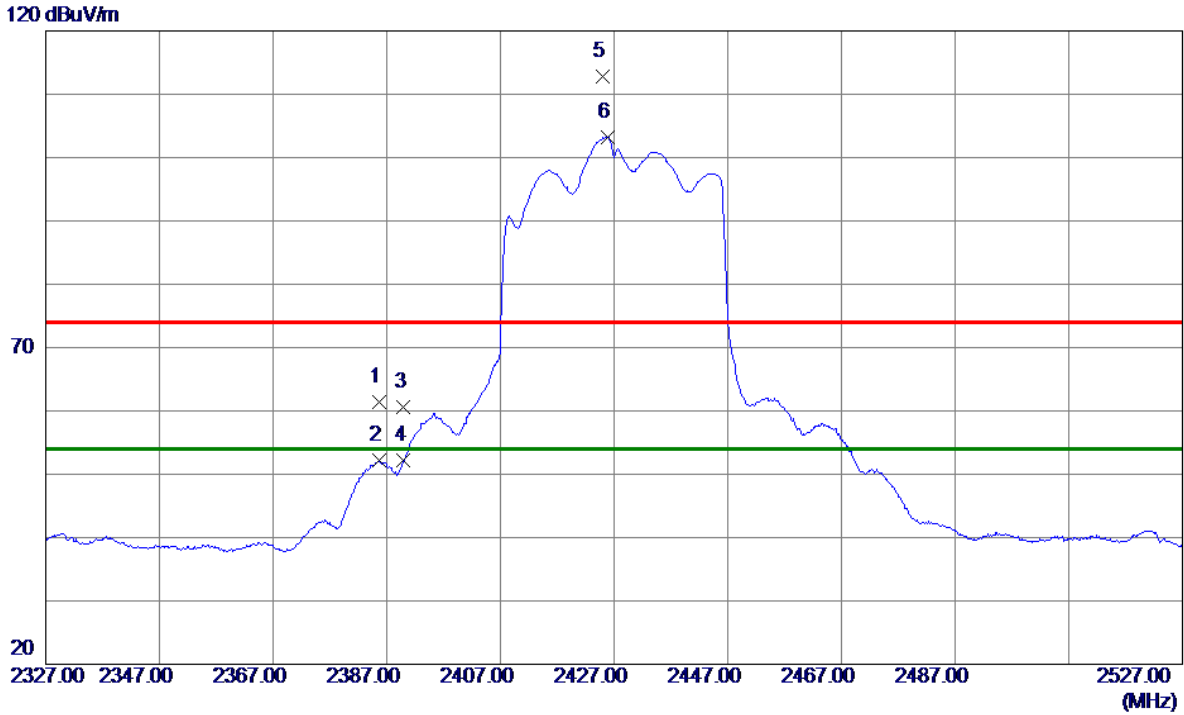


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4839.5750	29.46	0.50	29.96	54.00	-24.04	AVG	
2	4847.3000	39.51	0.52	40.03	74.00	-33.97	Peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



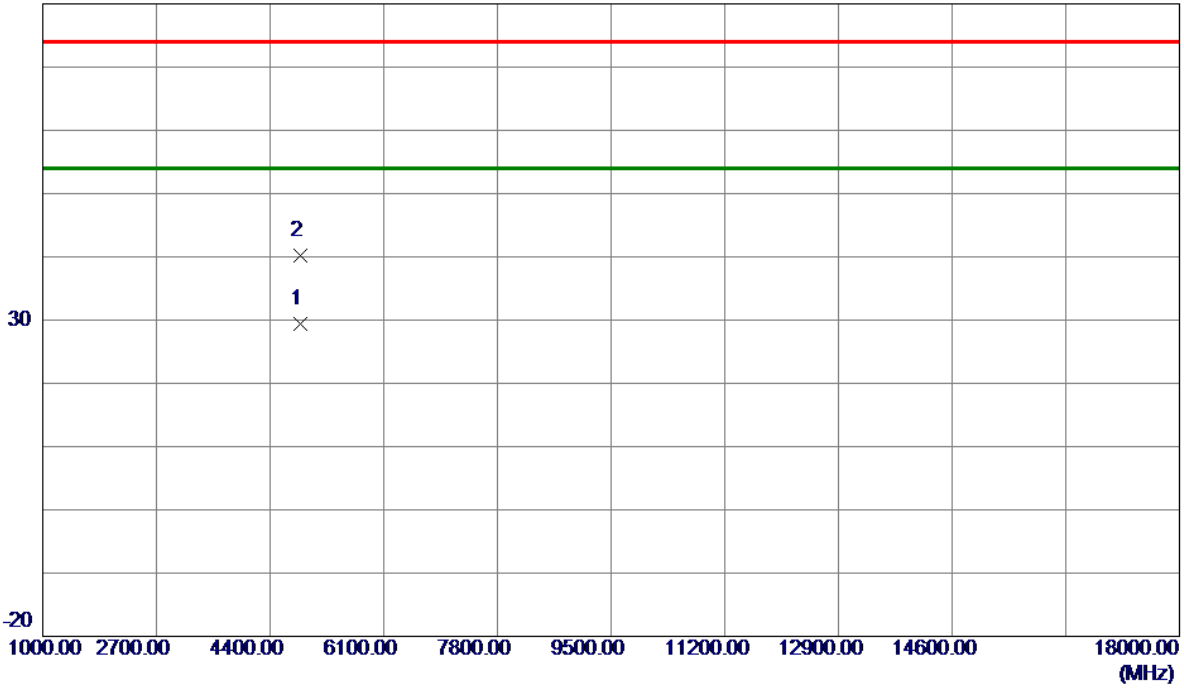
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.6000	55.94	5.51	61.45	74.00	-12.55	Peak	
2	2385.6000	46.62	5.51	52.13	54.00	-1.87	AVG	
3	2390.0000	55.10	5.51	60.61	74.00	-13.39	Peak	
4	2390.0000	46.73	5.51	52.24	54.00	-1.76	AVG	
5	2425.0000	107.21	5.50	112.71	74.00	38.71	Peak	No Limit
6 *	2425.8000	97.77	5.50	103.27	54.00	49.27	AVG	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

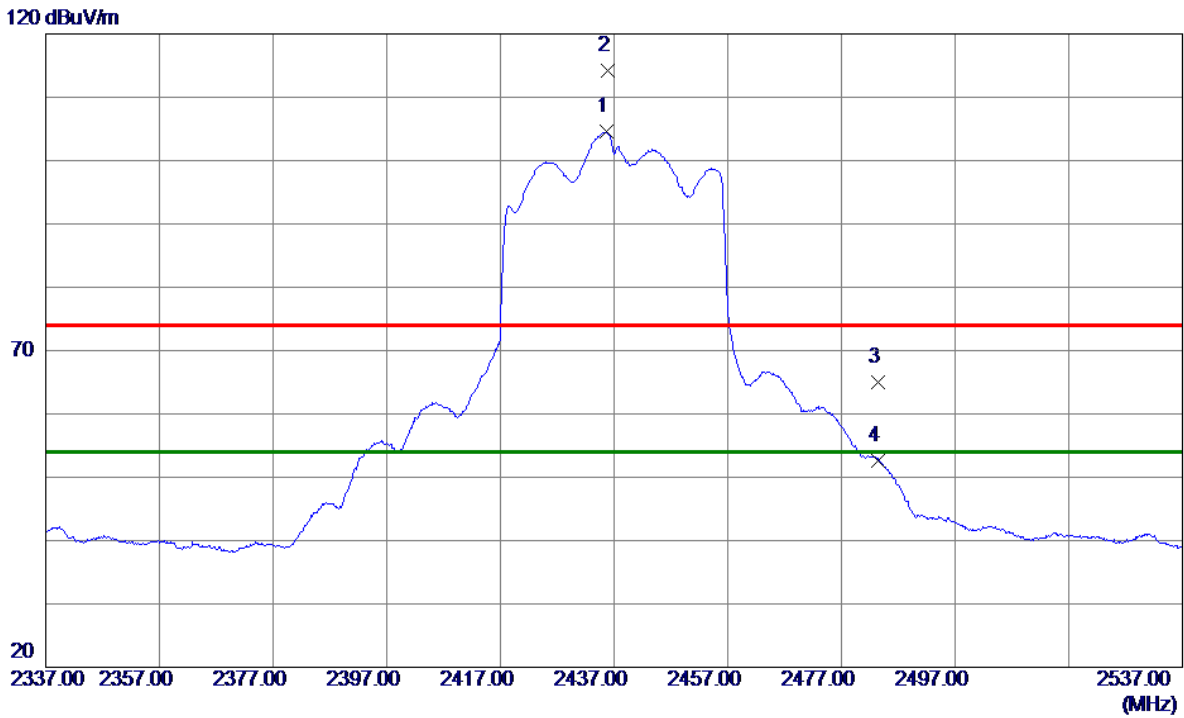


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4848.3000	28.87	0.53	29.40	54.00	-24.60	AVG	
2	4859.6250	39.57	0.56	40.13	74.00	-33.87	Peak	

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
-----------	---------------------------	--------------	----------



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.6000	99.01	5.50	104.51	54.00	50.51	AVG	No Limit
2	2435.9000	108.78	5.50	114.28	74.00	40.28	Peak	No Limit
3	2483.5000	59.60	5.48	65.08	74.00	-8.92	Peak	
4	2483.5000	47.21	5.48	52.69	54.00	-1.31	AVG	

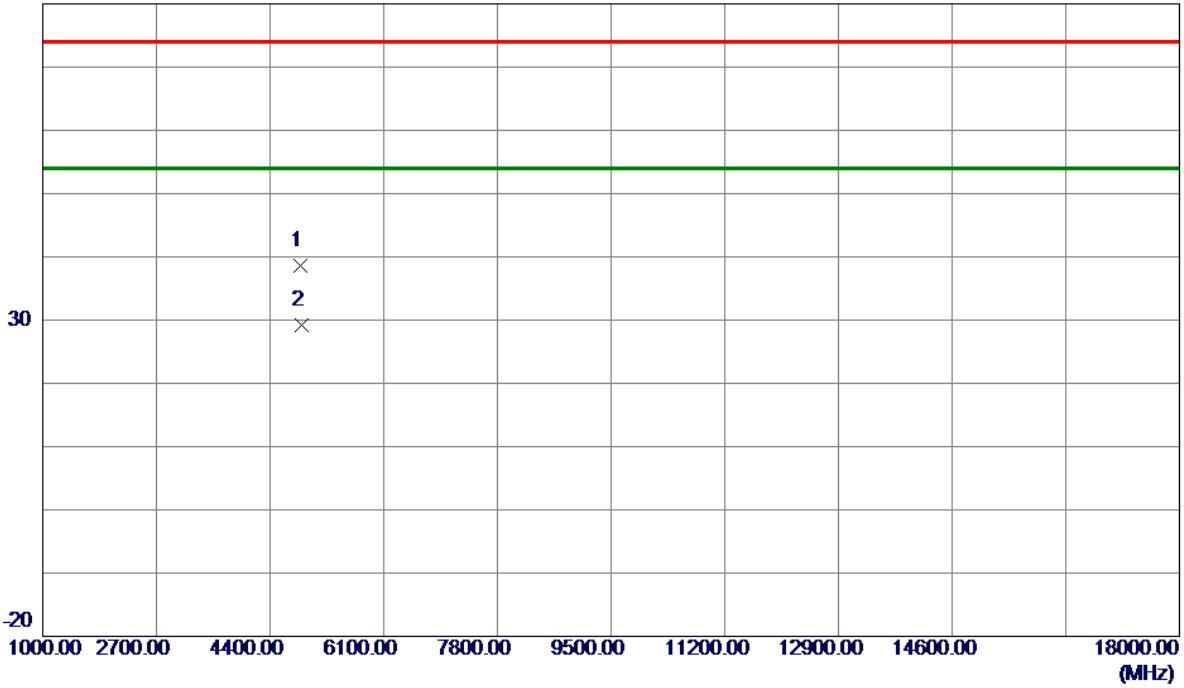
**REMARKS:**

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



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

80 dBuV/m

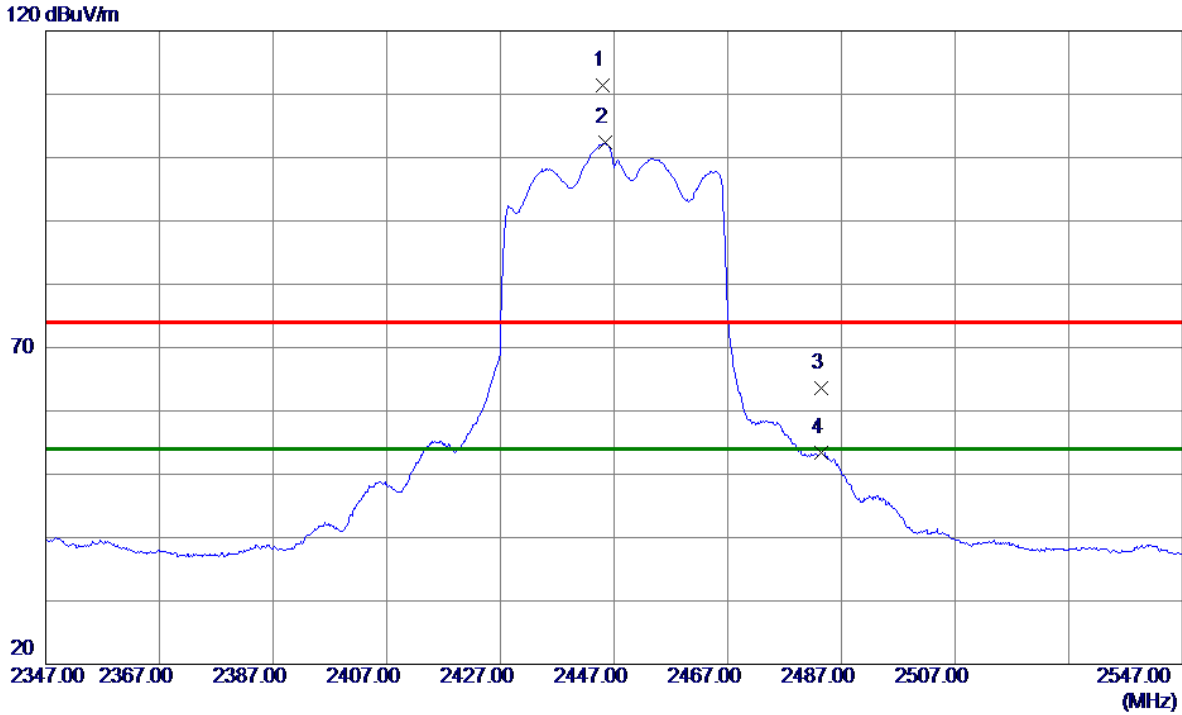


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4846.5500	38.14	0.52	38.66	74.00	-35.34	Peak	
2 *	4868.6750	28.55	0.58	29.13	54.00	-24.87	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



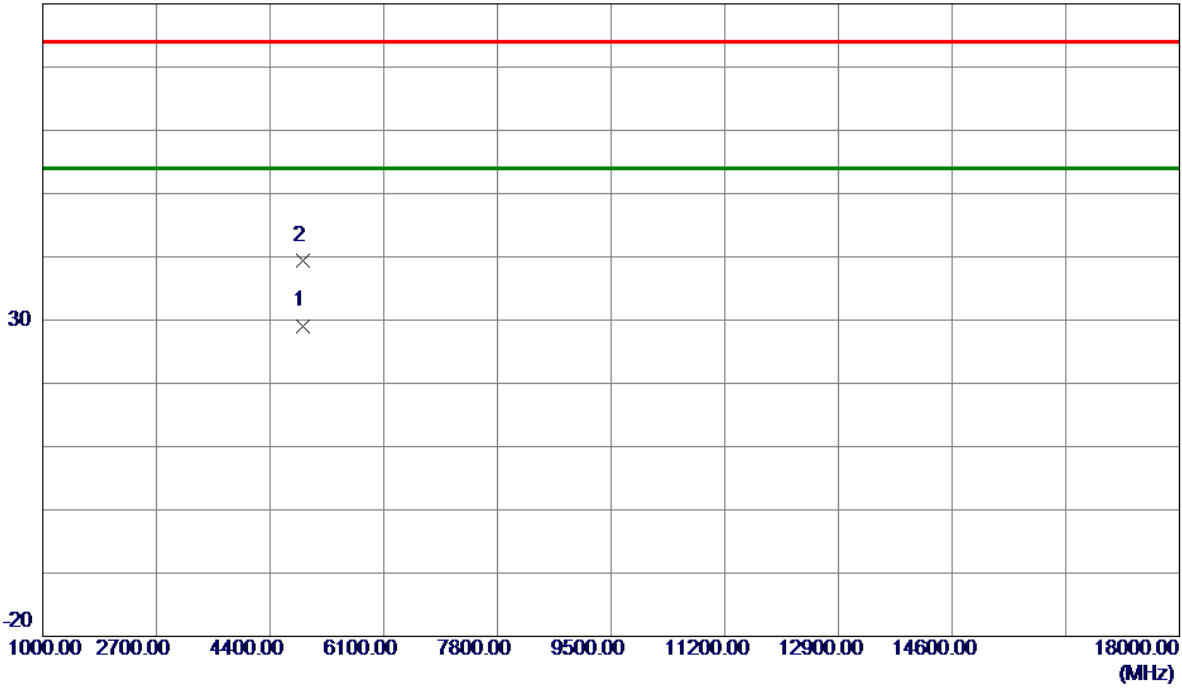
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.0000	105.98	5.50	111.48	74.00	37.48	Peak	No Limit
2 *	2445.4000	96.83	5.50	102.33	54.00	48.33	AVG	No Limit
3	2483.5000	58.05	5.48	63.53	74.00	-10.47	Peak	
4	2483.5000	48.00	5.48	53.48	54.00	-0.52	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

80 dBuV/m

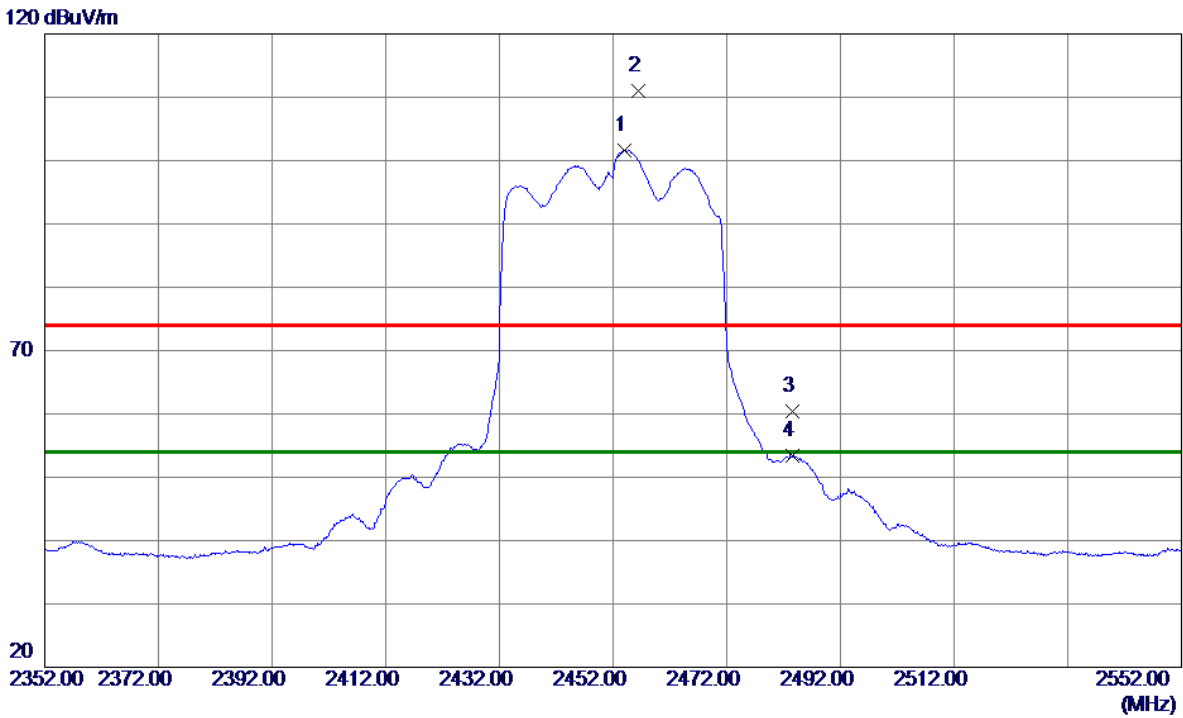


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4889.2000	28.46	0.64	29.10	54.00	-24.90	AVG	
2	4897.4500	38.70	0.66	39.36	74.00	-34.64	Peak	

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
-----------	---------------------------	--------------	----------



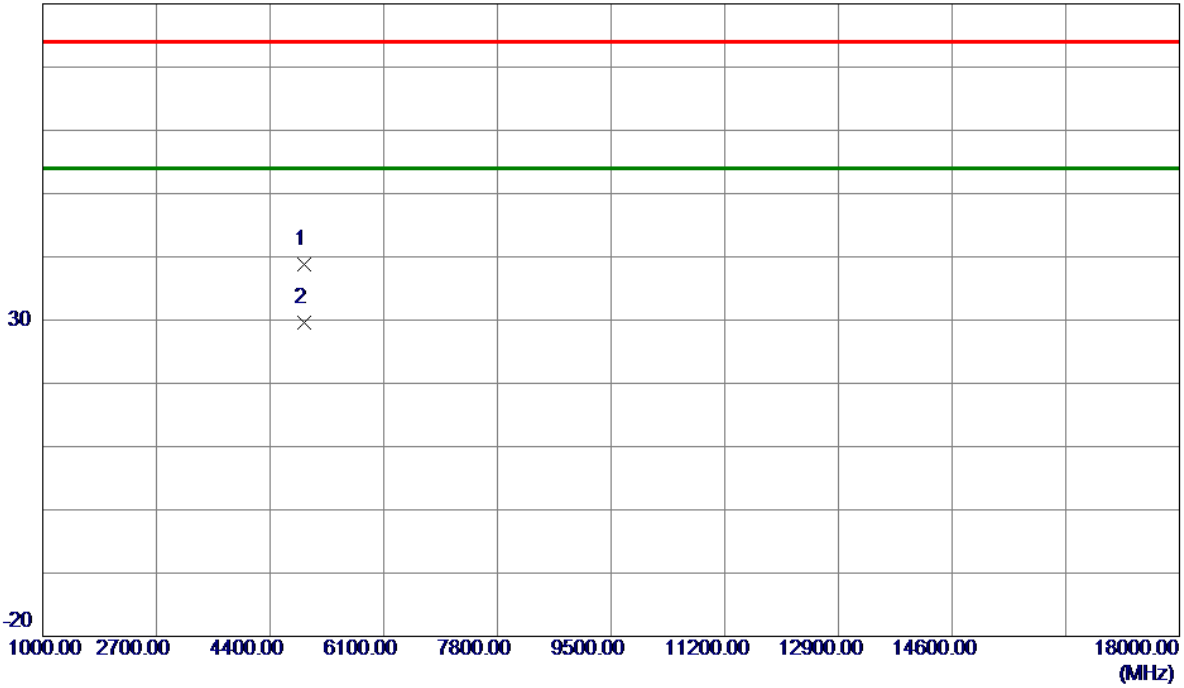
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.0000	96.13	5.49	101.62	54.00	47.62	AVG	No Limit
2	2456.4000	105.58	5.49	111.07	74.00	37.07	Peak	No Limit
3	2483.5000	54.91	5.48	60.39	74.00	-13.61	Peak	
4	2483.5000	47.88	5.48	53.36	54.00	-0.64	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
-----------	---------------------------	--------------	------------

80 dBuV/m

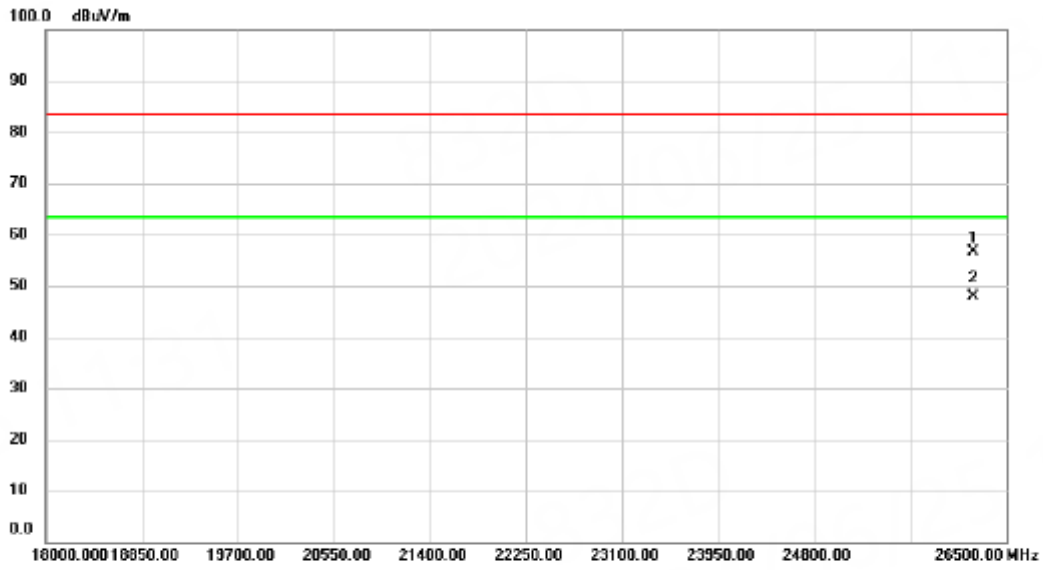


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4908.6500	38.08	0.69	38.77	74.00	-35.23	Peak	
2 *	4908.8750	28.82	0.69	29.51	54.00	-24.49	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
-----------	--------------------	--------------	----------

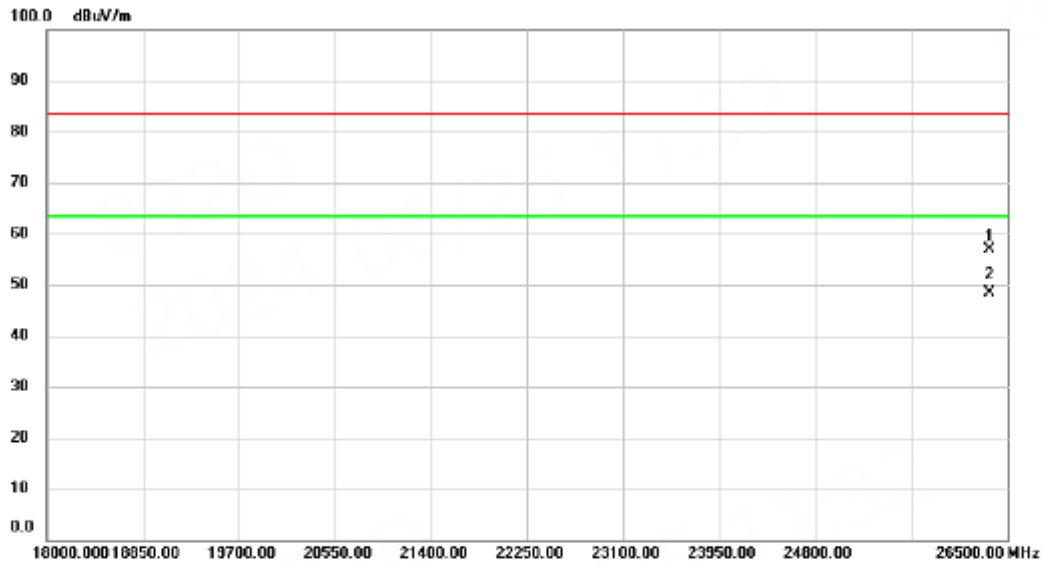


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	26211.000	46.78	9.90	56.68	83.50	-26.82	peak	
2 *	26211.000	37.87	9.90	47.77	63.50	-15.73	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
-----------	--------------------	--------------	------------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		26342.750	47.08	9.89	56.97	83.50	-26.53	peak	
2	*	26342.750	38.45	9.89	48.34	63.50	-15.16	AVG	

**REMARKS:**

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

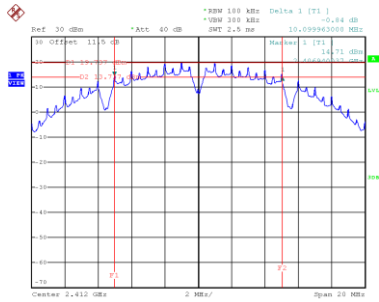
## APPENDIX E - BANDWIDTH



Test Mode TX B Mode

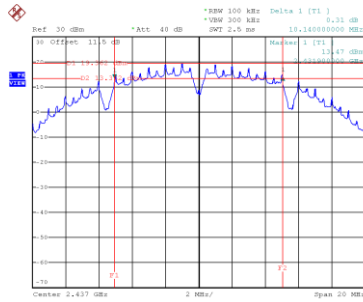
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.100	16.960	0.5	Complies
06	2437	10.140	17.120	0.5	Complies
11	2462	10.070	16.960	0.5	Complies

CH01



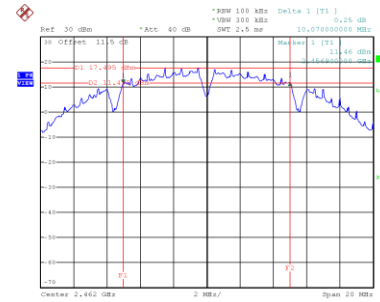
Date: 11.JUN.2024 15:51:27

CH06  
6 dB Bandwidth



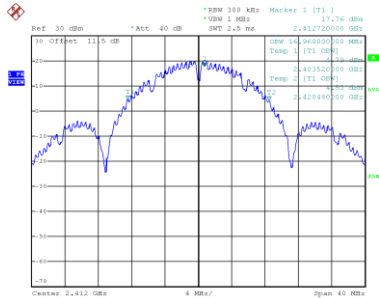
Date: 11.JUN.2024 15:51:58

CH11

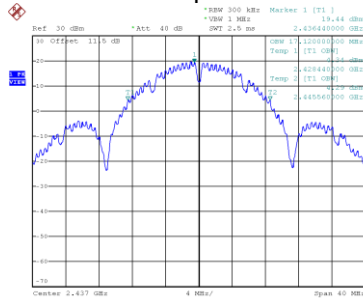


Date: 11.JUN.2024 15:51:49

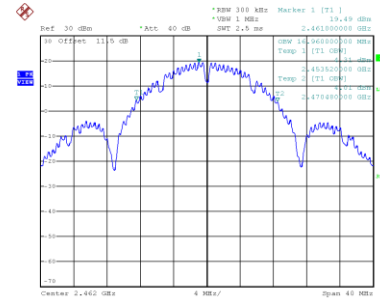
99 % Occupied Bandwidth



Date: 11.JUN.2024 15:51:34



Date: 11.JUN.2024 15:51:06



Date: 11.JUN.2024 15:51:56