



# FCC Radio Test Report

## FCC ID: 2BH7FTX30UPLUS

This report concerns: Original Grant

**Project No.** : 2408G116  
**Equipment** : AX1800 Dual Antennas High Gain Wireless USB Adapter  
**Brand Name** : tp-link  
**Test Model** : Archer TX30U Plus  
**Series Model** : N/A  
**Applicant** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
**Manufacturer** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
**Date of Receipt** : Aug. 24, 2024  
**Date of Test** : Aug. 27, 2024 ~ Nov. 13, 2024  
**Issued Date** : Jan. 24, 2025  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG202408242 for radiated, DG202408243 for conducted.  
**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.

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**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.

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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.

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### REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2408G116	R00	Original Report.	Jan. 24, 2025	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	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.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, 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	48%	DC 5V	Hayden Chen	Nov. 13, 2024
Radiated Emissions-9 kHz to 30 MHz	25°C	42%	DC 5V	Hayden Chen	Sep. 19, 2024
Radiated Emissions-30 MHz to 1000 MHz	22°C	53%	DC 5V	Calvin Wen	Sep. 09, 2024
Radiated Emissions-Above 1000 MHz	23-24°C	51-54%	DC 5V	Allen Tong	Sep. 06, 2024- Sep. 11, 2024
Bandwidth	22-28°C	51-57%	DC 5V	Arvin Tong	Sep. 18, 2024- Sep. 23, 2024
Maximum Output Power	23°C	48%	DC 5V	Steve Zhou	Sep. 05, 2024- Sep. 23, 2024
Conducted Spurious Emission	22-28°C	51-57%	DC 5V	Arvin Tong	Sep. 18, 2024- Sep. 23, 2024
Power Spectral Density	22-28°C	51-57%	DC 5V	Arvin Tong	Sep. 18, 2024- Sep. 23, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Dual Antennas High Gain Wireless USB Adapter
Brand Name	tp-link
Test Model	Archer TX30U Plus
Series Model	N/A
Model Difference(s)	N/A
Software Version	V1
Hardware Version	V1
Power Source	DC supply from PC.
Power Rating	DC 5V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power	IEEE 802.11ax(HE40): 23.65 dBm (0.2317 W)

Note:

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

#### 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

#### 3. Antenna Specification:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-LINK CORPORATION PTE. LTD.	3101507187	Dipole	N/A	1.98
2	TP-LINK CORPORATION PTE. LTD.	3101507187	Dipole	N/A	2.00

Note:

- This EUT supports CDD, and all antenna gains are not equal, so Directional gain= $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$  dBi, that is Directional gain= $10\log[(10^{1.98/20} + 10^{2.00/20})^2 / 2]$  dBi =5.00.

## 4. Table for Antenna Configuration:

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 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 AX(HE40) Mode Channel 03
Mode 8	TX B Mode Channel 01/02/06/10/11
Mode 9	TX G Mode Channel 01/02/06/10/11
Mode 10	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 11	TX N(HT40) Mode Channel 03/04/06/08/09
Mode 12	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 13	TX AX(HE40) Mode Channel 03/04/06/08/09

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 7	TX AX(HE40) Mode Channel 03

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX AX(HE40) Mode Channel 03

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 8	TX B Mode Channel 01/02/06/10/11
Mode 9	TX G Mode Channel 01/02/06/10/11
Mode 10	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 11	TX N(HT40) Mode Channel 03/04/06/08/09
Mode 12	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 13	TX AX(HE40) Mode Channel 03/04/06/08/09

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(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 radiated emission below 1 GHz test, the TX AX(HE40) Mode Channel 03 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) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

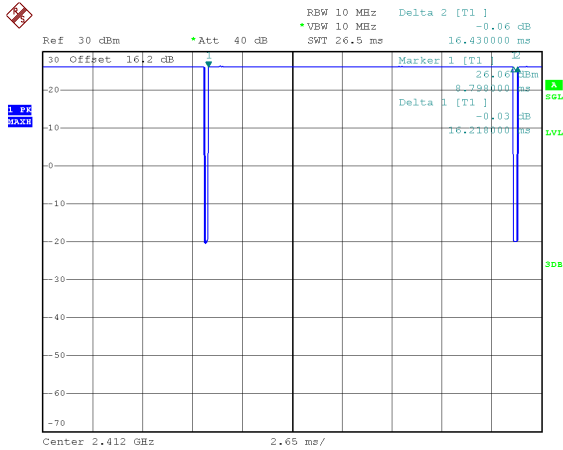
### 3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	AX Series MP Toolkit 3.0.24.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	18.5	18.5	16.5
IEEE 802.11g	16	20	15.5
IEEE 802.11n(HT20)	15	19.5	16
IEEE 802.11ax(HE20)	15	19.5	16
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	16	17.5	12
IEEE 802.11ax(HE40)	19.5	14.5	11.5

## 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.

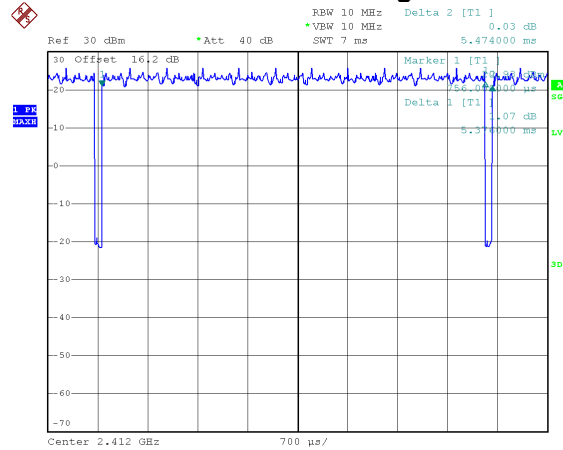
IEEE 802.11b



Date: 18.SEP.2024 10:47:03

Duty cycle =  $16.218 \text{ ms} / 16.430 \text{ ms} = 98.71\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.00$

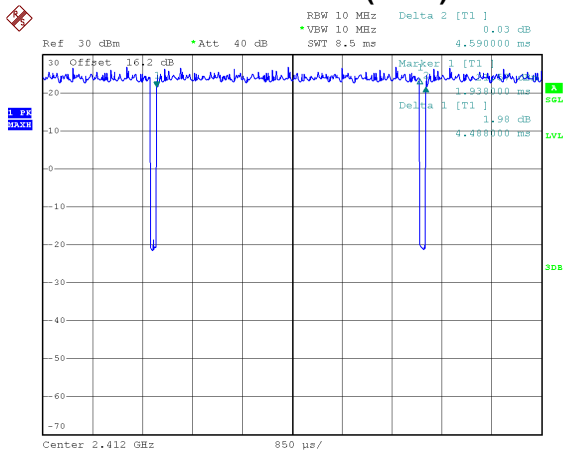
IEEE 802.11g



Date: 18.SEP.2024 11:12:50

Duty cycle =  $5.376 \text{ ms} / 5.474 \text{ ms} = 98.21\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.00$

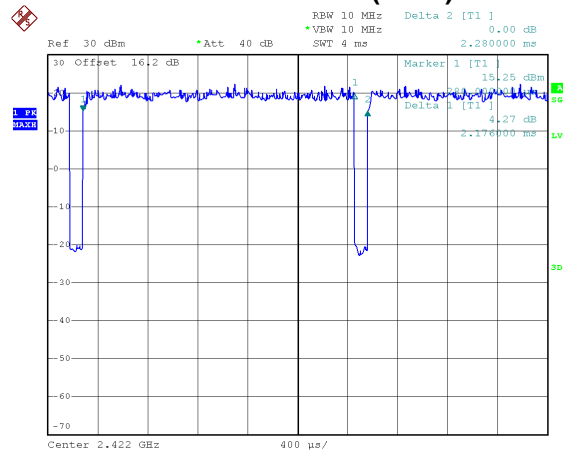
IEEE 802.11n(HT20)



Date: 18.SEP.2024 11:41:54

Duty cycle =  $4.488 \text{ ms} / 4.590 \text{ ms} = 97.78\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.10$

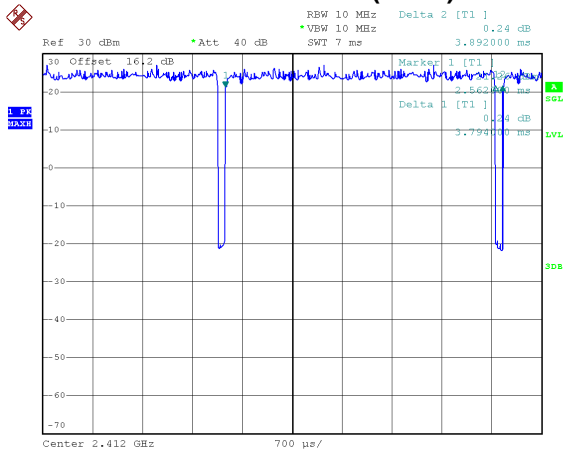
IEEE 802.11n(HT40)



Date: 18.SEP.2024 13:38:22

Duty cycle =  $2.176 \text{ ms} / 2.280 \text{ ms} = 95.44\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.20$

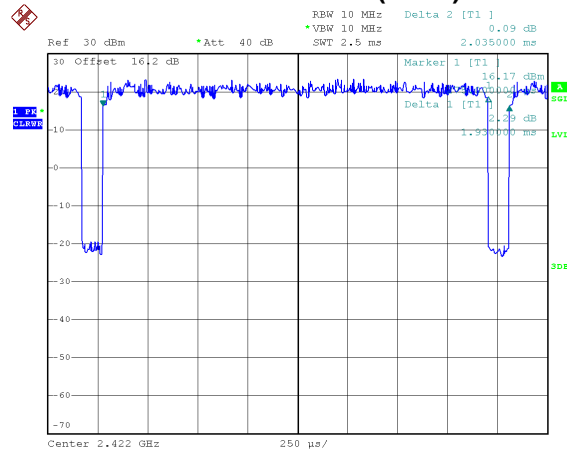
## IEEE 802.11ax(HE20)



Date: 18.SEP.2024 13:47:06

Duty cycle = 3.794 ms / 3.892 ms = 97.48%  
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.11$

## IEEE 802.11ax(HE40)



Date: 18.SEP.2024 13:47:24

Duty cycle = 1.930 ms / 2.035 ms = 94.84%  
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.23$

### 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 223 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 460 Hz.

For IEEE 802.11ax(HE20):

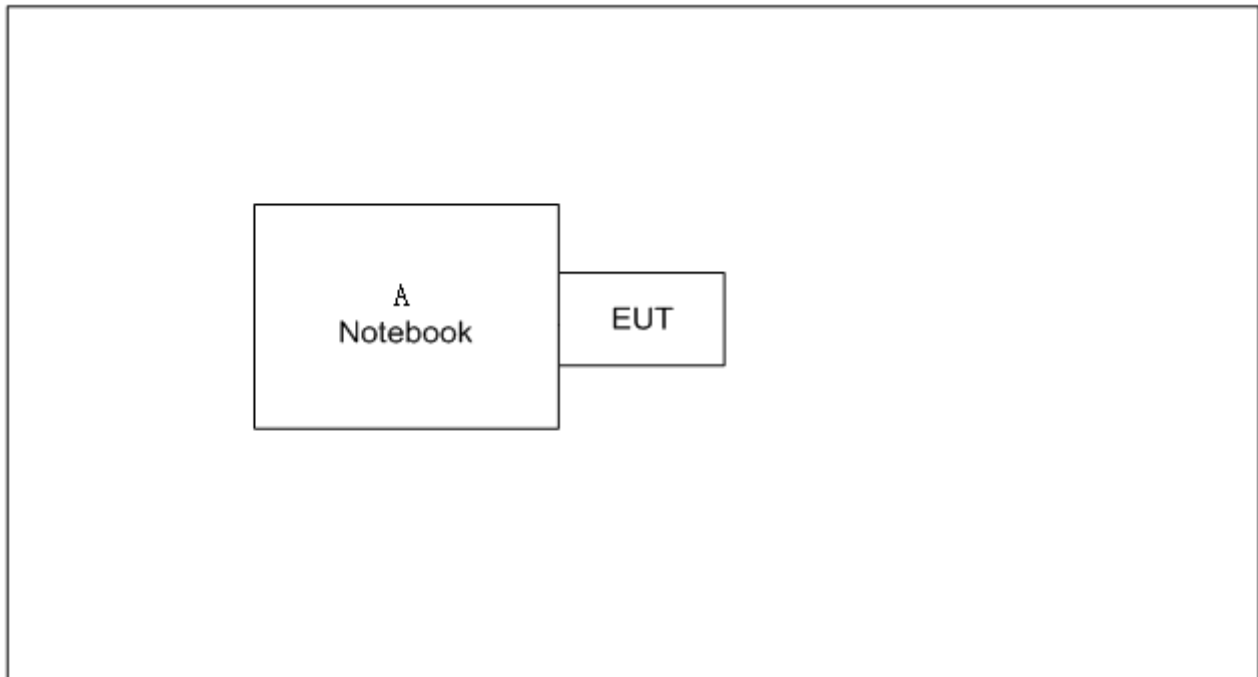
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 264 Hz.

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 518 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	Nbl-WAQ9HNRP	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

### 3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for 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.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value – Limit Value  
 Sample calculations: (Refer to page XX, test result No.X.)

### 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.

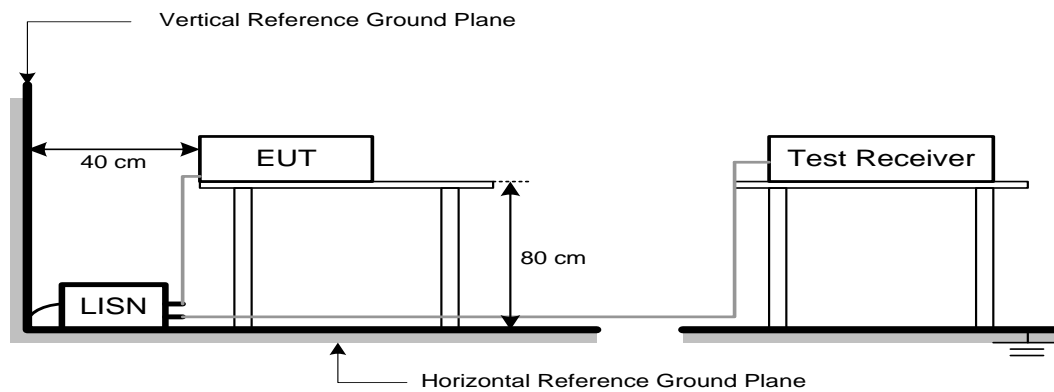
The following table is the setting of the receiver:

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 (dBμV/m)		Harmonic at 1m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

#### 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)

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

20log (d<sub>limit</sub>/d<sub>measure</sub>)=20log (3/1)=9.5 dB.

FS<sub>limit</sub>: Harmonic at 3m Peak and Average limit.

FS<sub>max</sub>: Harmonic at 1m Peak and Average Maximum value.

d<sub>limit</sub>: Harmonic at 3m test distance.

d<sub>measure</sub>: Harmonic Actual test distance.

## 5.2 TEST PROCEDURE

- 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)
- The measuring distance of 3 m or 1m 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 1GHz)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- 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

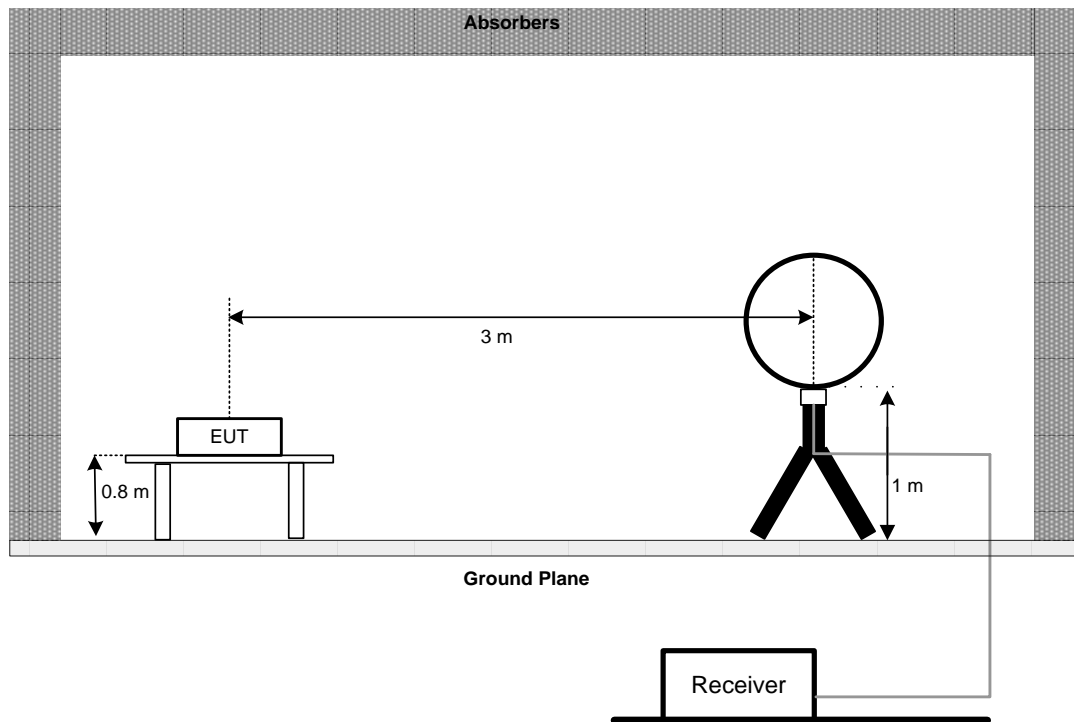
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

## 5.3 DEVIATION FROM TEST STANDARD

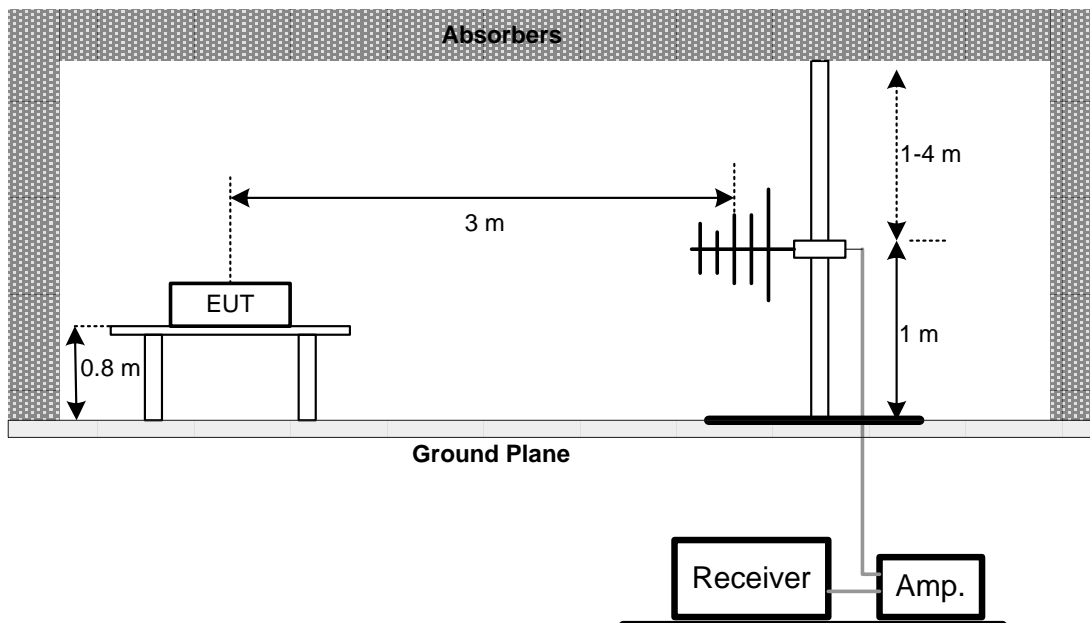
No deviation.

## 5.4 TEST SETUP

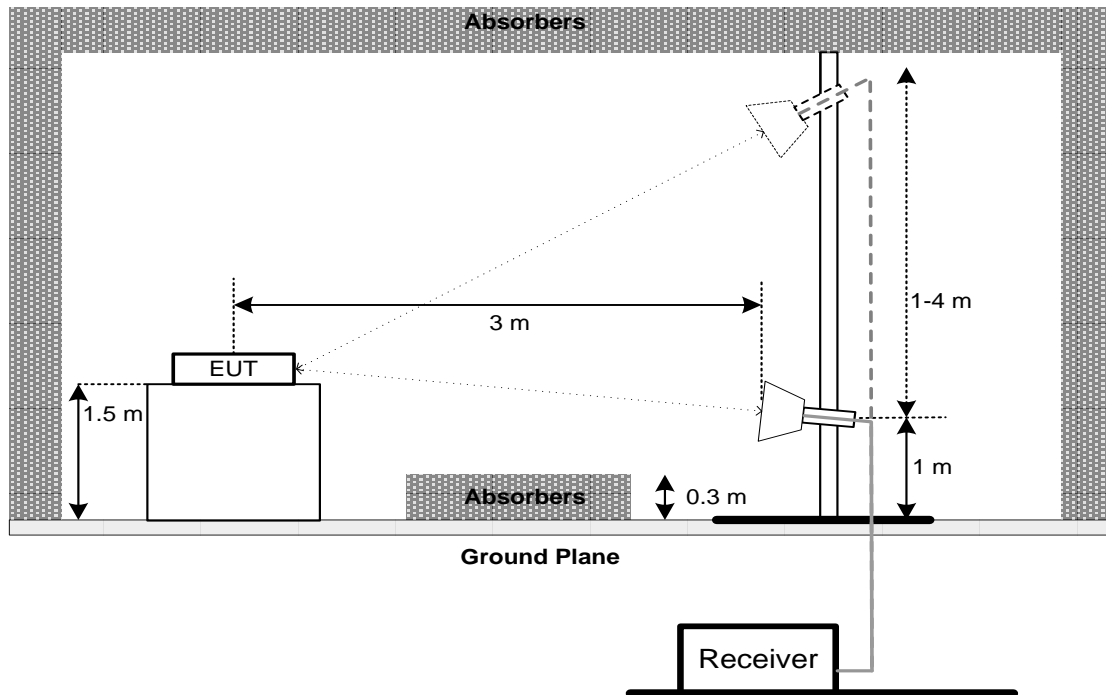
9 kHz to 30 MHz



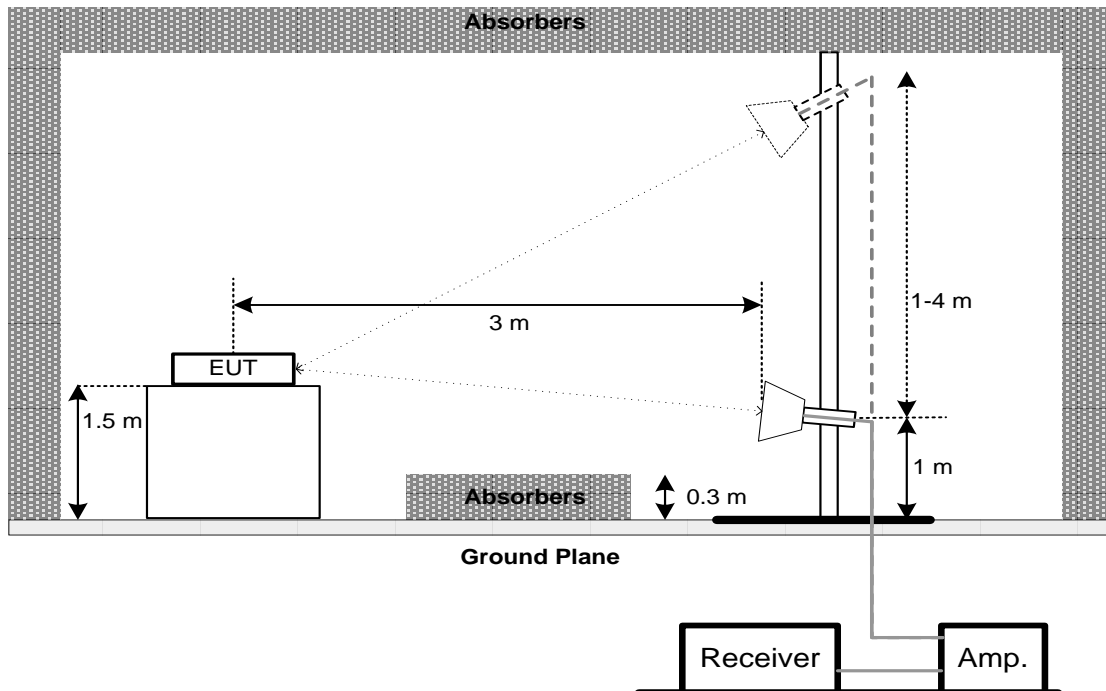
30 MHz to 1 GHz



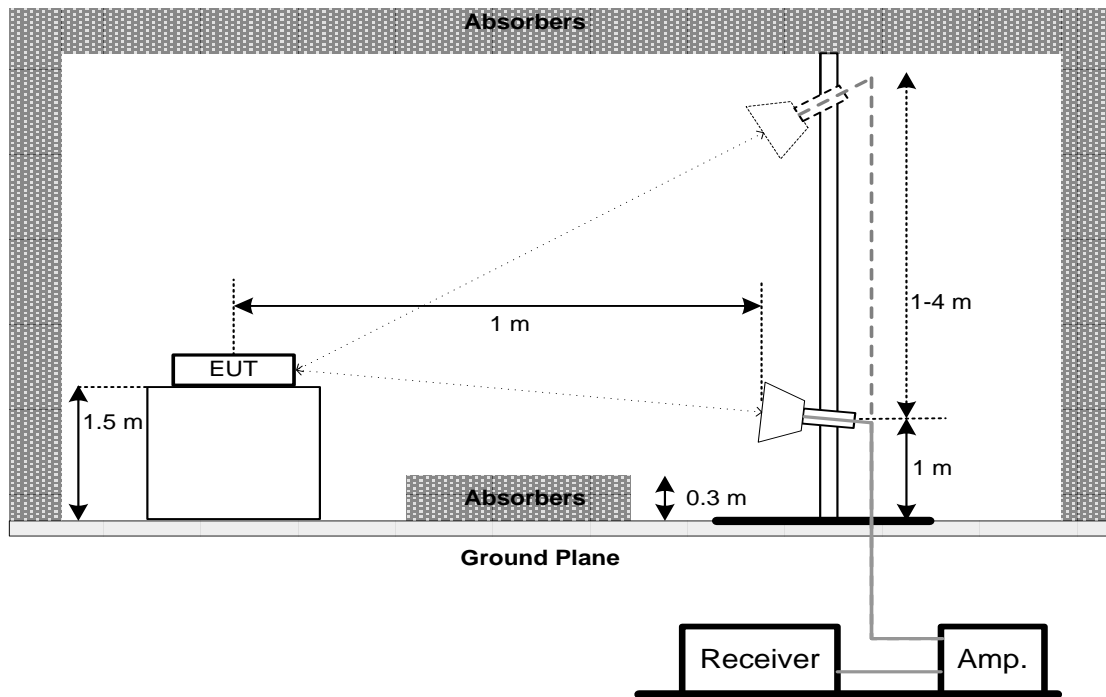
## Above 1 GHz Band edge



## Harmonic(1 GHz to 18 GHz)



## Harmonic(18 GHz to 26.5 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

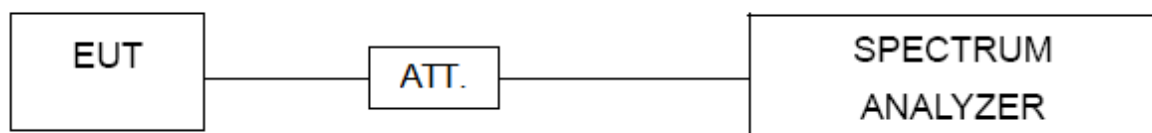
For 99% Emission Bandwidth:

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

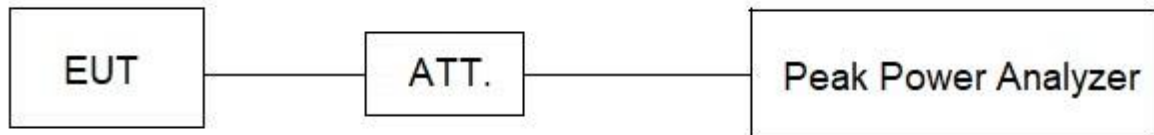
### 7.2 TEST PROCEDURE

- 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

- 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
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	ESCI	100382	Dec. 22, 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-9 M-001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

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. 09, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Sep. 09, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025

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	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025
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	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Filter	STI	STI15-9912	N/A	May 31, 2025
10	Positioning Controller	MF	MF-7802	N/A	N/A
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
12	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024
13	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 17, 2025
14	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
15	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
16	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025
2	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025
3	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
4	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A
5	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025

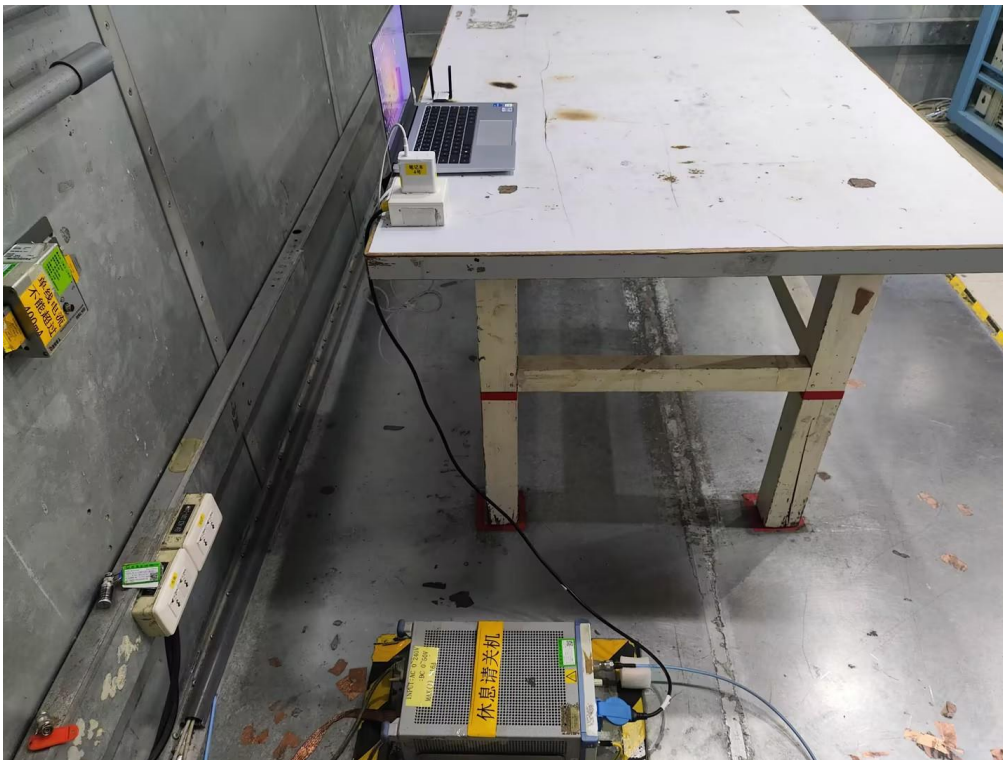
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

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

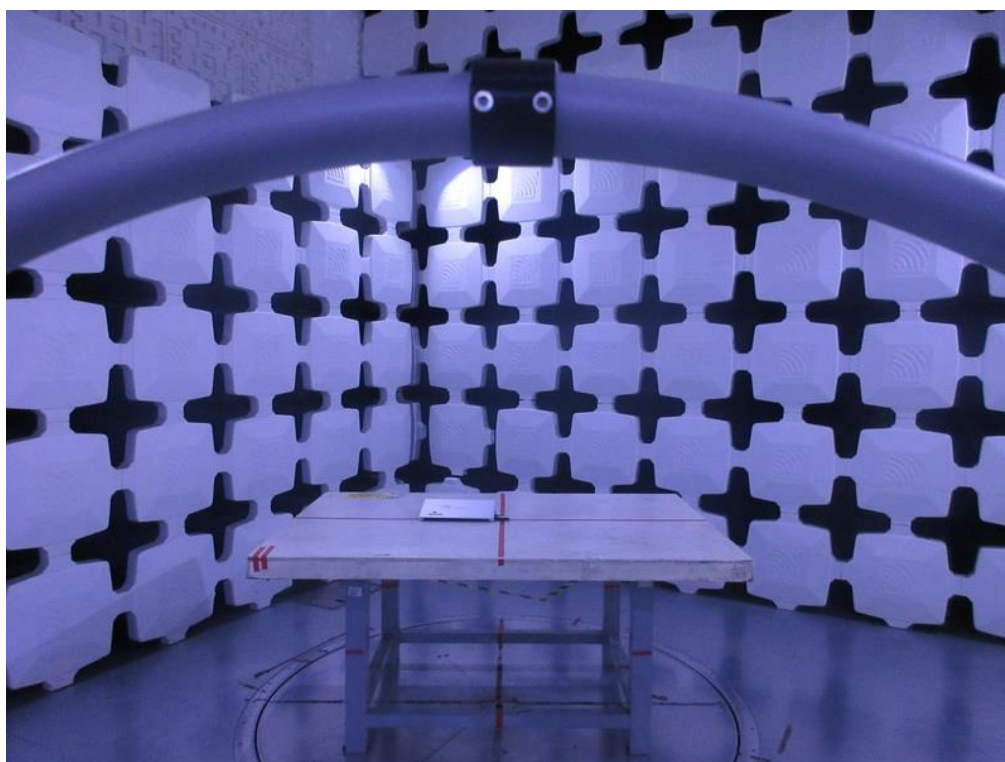
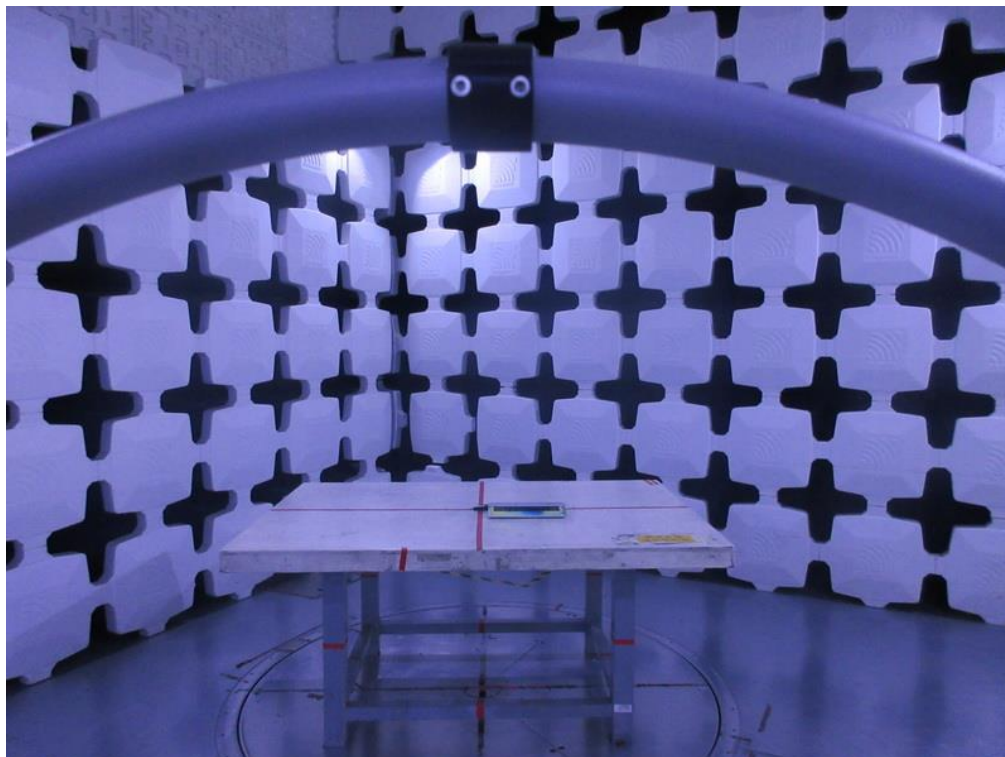
### AC Power Line Conducted Emissions Test Photos





## Radiated Emissions Test Photos

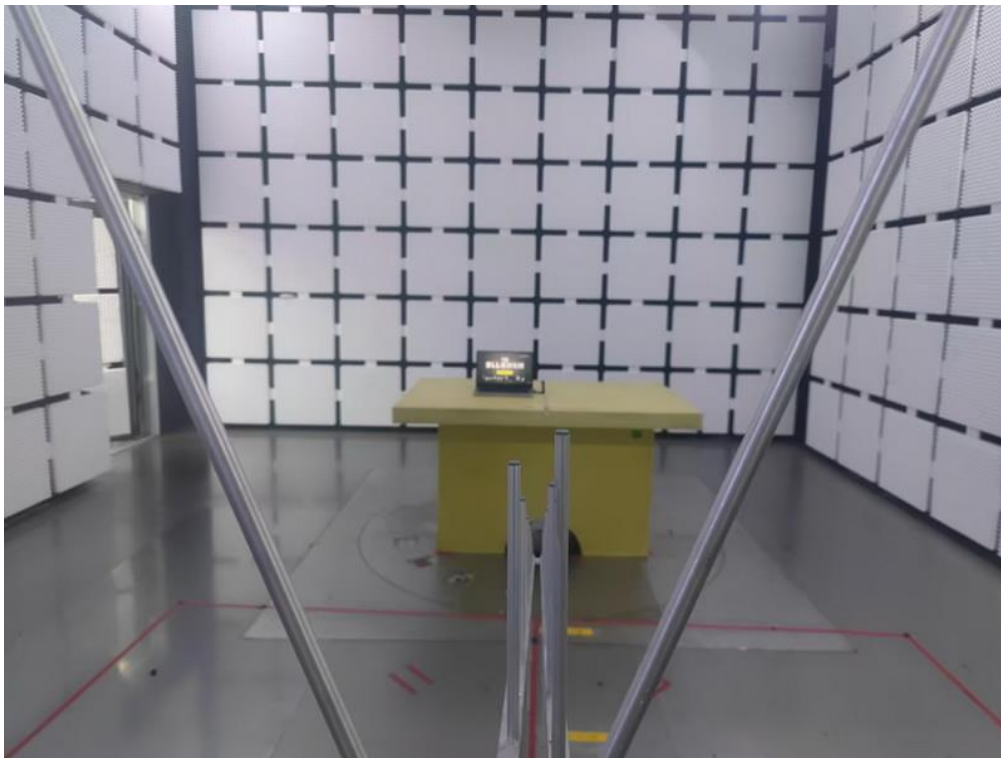
9 kHz to 30 MHz





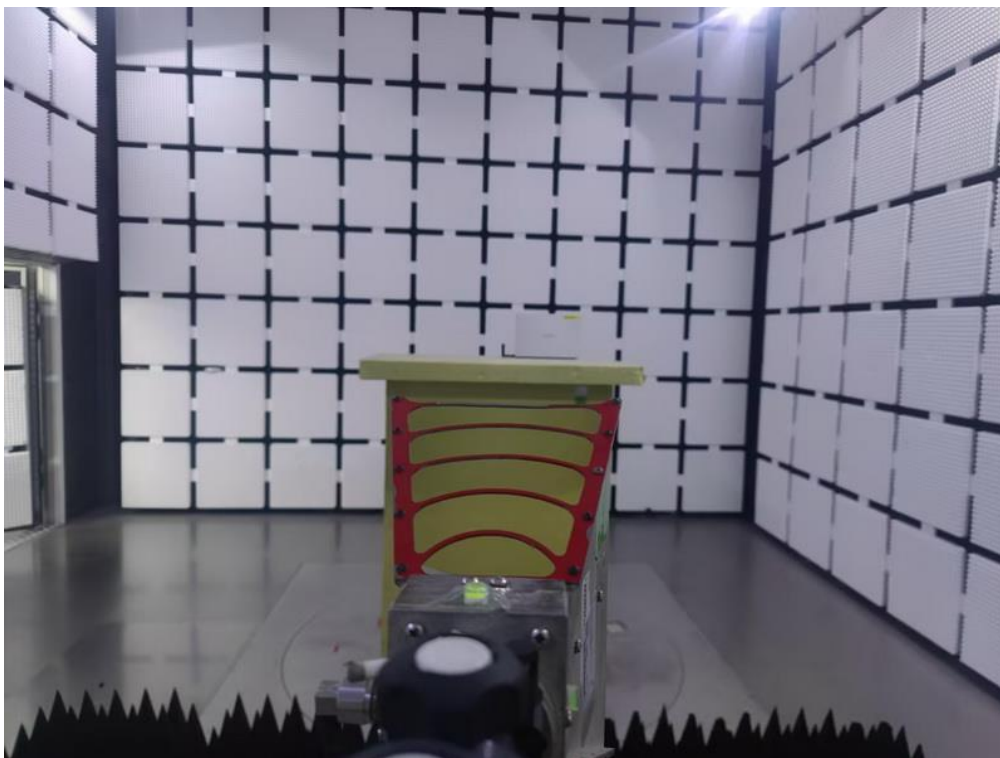
## Radiated Emissions Test Photos

30 MHz to 1 GHz



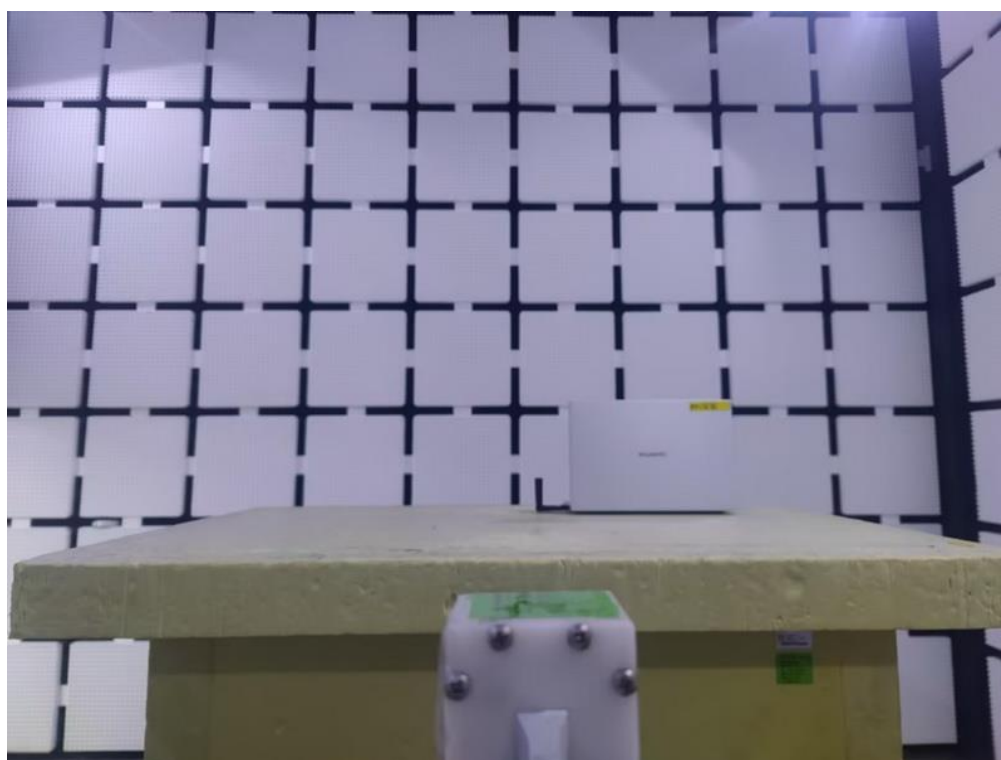
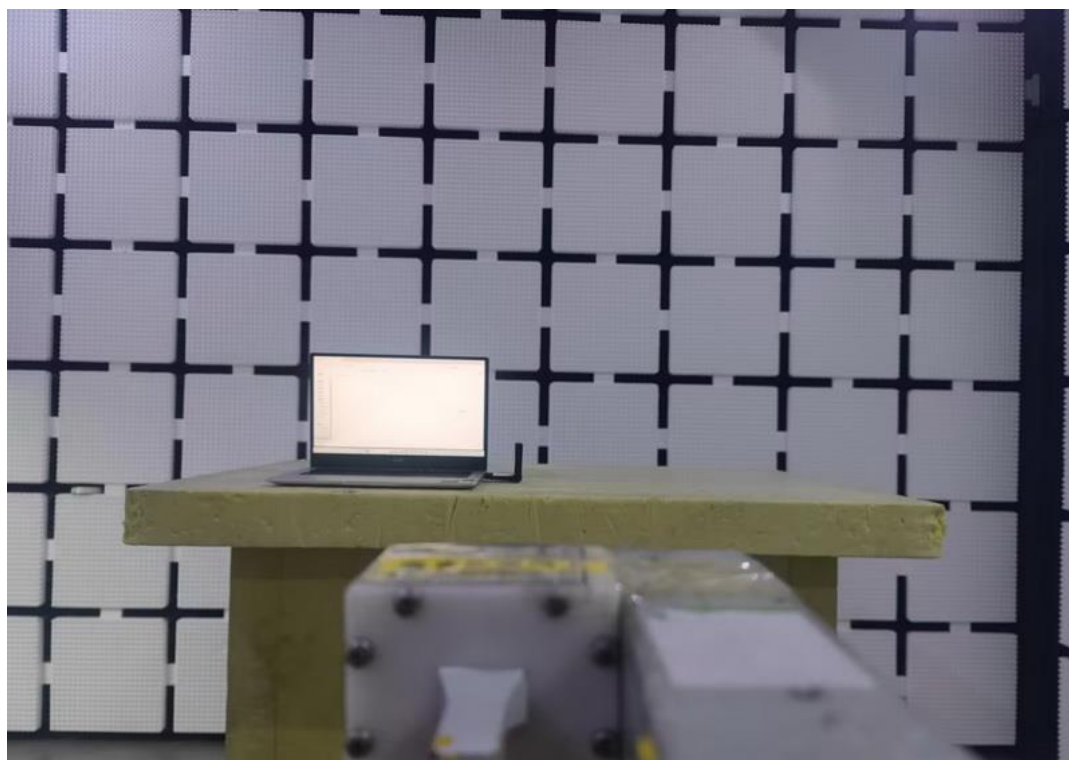
# Radiated Emissions Test Photos

1 GHz -18 GHz  
(Band Edge & Harmonic)



# Radiated Emissions Test Photos

18 GHz to 26.5 GHz  
(Harmonic)



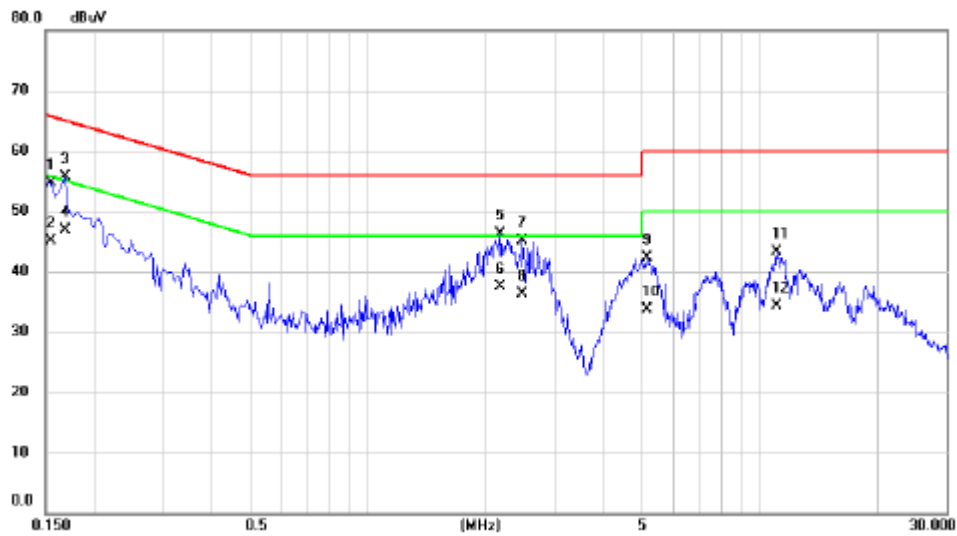


**Conducted Test Photos**



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

Test Mode	TX AX(HE40) Mode Channel 03	Phase	Line
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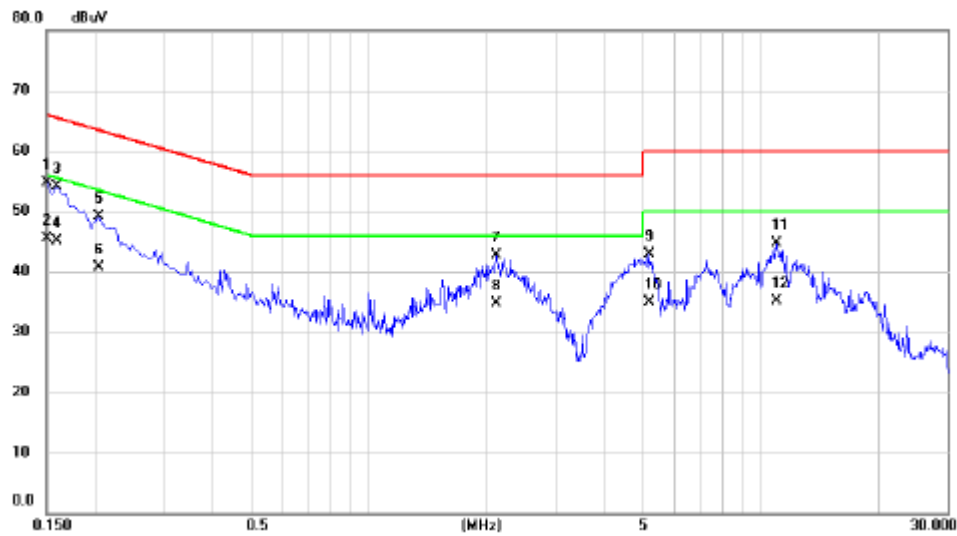
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	44.78	9.93	54.71	65.75	-11.04	QP	
2		0.1545	35.10	9.93	45.03	55.75	-10.72	AVG	
3		0.1680	45.75	9.93	55.68	65.06	-9.38	QP	
4	*	0.1680	36.90	9.93	46.83	55.06	-8.23	AVG	
5		2.1705	35.51	10.73	46.24	56.00	-9.76	QP	
6		2.1705	26.70	10.73	37.43	46.00	-8.57	AVG	
7		2.4720	34.54	10.50	45.04	56.00	-10.96	QP	
8		2.4720	25.80	10.50	36.30	46.00	-9.70	AVG	
9		5.1360	31.64	10.65	42.29	60.00	-17.71	QP	
10		5.1360	23.10	10.65	33.75	50.00	-16.25	AVG	
11		11.0310	31.20	12.03	43.23	60.00	-16.77	QP	
12		11.0310	22.30	12.03	34.33	50.00	-15.67	AVG	

## REMARKS:

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

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

Test Mode	TX AX(HE40) Mode Channel 03	Phase	Neutral
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	44.74	9.90	54.64	66.00	-11.36	QP	
2		0.1500	35.60	9.90	45.50	56.00	-10.50	AVG	
3		0.1590	44.21	9.90	54.11	65.52	-11.41	QP	
4	*	0.1590	35.20	9.90	45.10	55.52	-10.42	AVG	
5		0.2040	39.12	9.91	49.03	63.45	-14.42	QP	
6		0.2040	30.70	9.91	40.61	53.45	-12.84	AVG	
7		2.1210	32.07	10.72	42.79	56.00	-13.21	QP	
8		2.1210	23.90	10.72	34.62	46.00	-11.38	AVG	
9		5.1900	32.22	10.60	42.82	60.00	-17.18	QP	
10		5.1900	24.30	10.60	34.90	50.00	-15.10	AVG	
11		10.9905	32.65	11.97	44.62	60.00	-15.38	QP	
12		10.9905	23.10	11.97	35.07	50.00	-14.93	AVG	

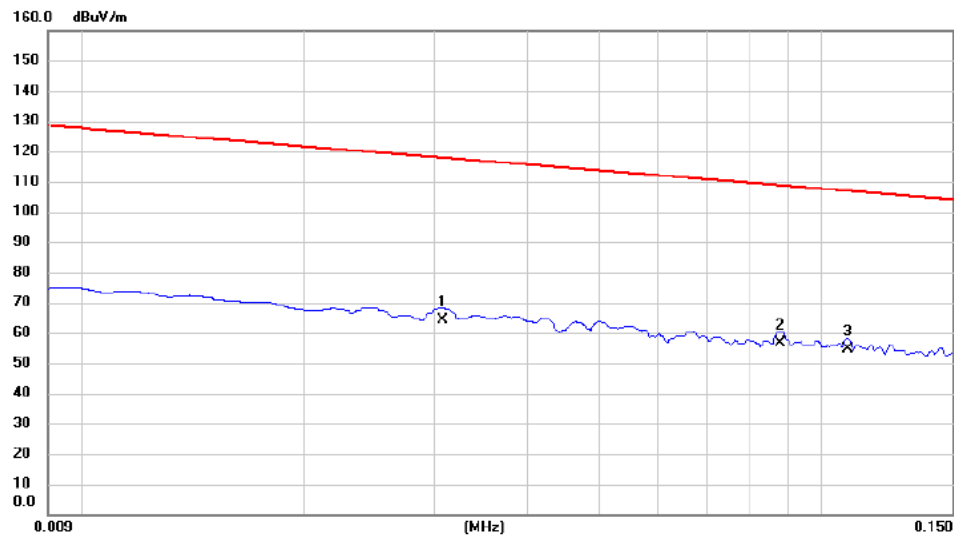
## REMARKS:

- (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 AX(HE40) Mode Channel 03	Polarization	Ant 0°
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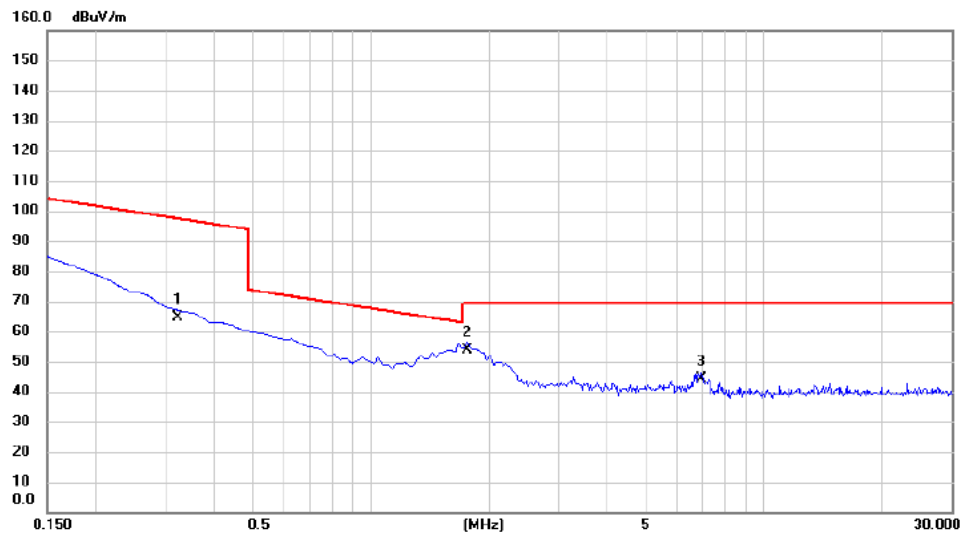


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0307	43.10	21.10	64.20	117.86	-53.66	AVG	
2	*	0.0880	35.16	21.30	56.46	108.72	-52.26	AVG	
3		0.1084	33.36	21.29	54.65	106.91	-52.26	QP	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 03	Polarization	Ant 0°
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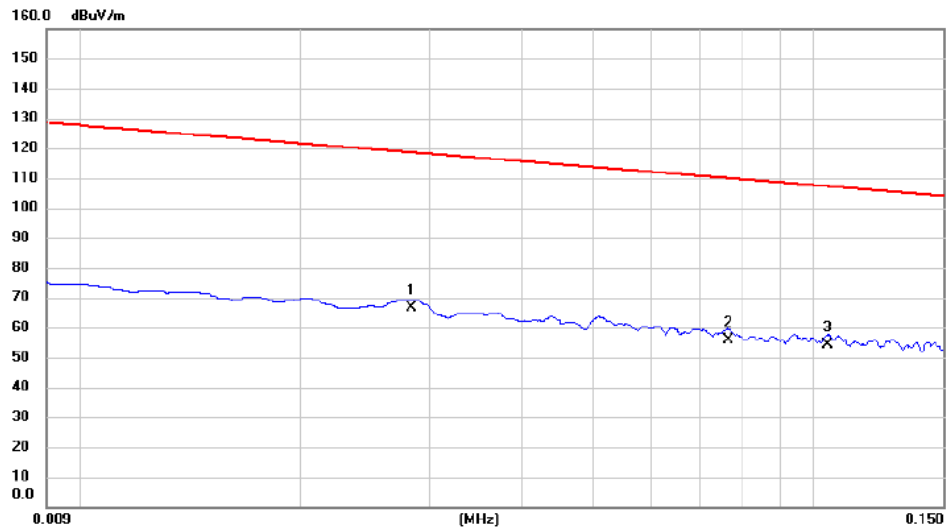


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3234	43.59	21.00	64.59	97.41	-32.82	AVG	
2	*	1.7620	32.94	21.02	53.96	69.54	-15.58	QP	
3		6.9260	23.16	21.00	44.16	69.54	-25.38	QP	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 03	Polarization	Ant 90°
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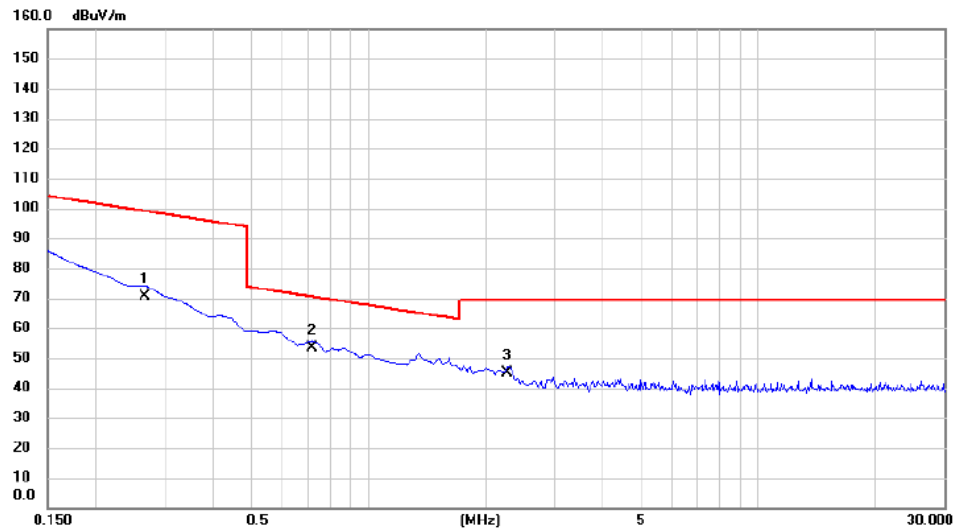
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0283	45.37	21.05	66.42	118.57	-52.15	AVG	
2		0.0764	34.61	21.29	55.90	109.94	-54.04	AVG	
3		0.1046	32.94	21.29	54.23	107.22	-52.99	QP	

## REMARKS:

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

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

Test Mode	TX AX(HE40) Mode Channel 03	Polarization	Ant 90°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2672	49.36	21.05	70.41	99.07	-28.66	AVG	
2	*	0.7171	32.16	21.07	53.23	70.49	-17.26	QP	
3		2.2694	23.84	21.00	44.84	69.54	-24.70	QP	

## REMARKS:

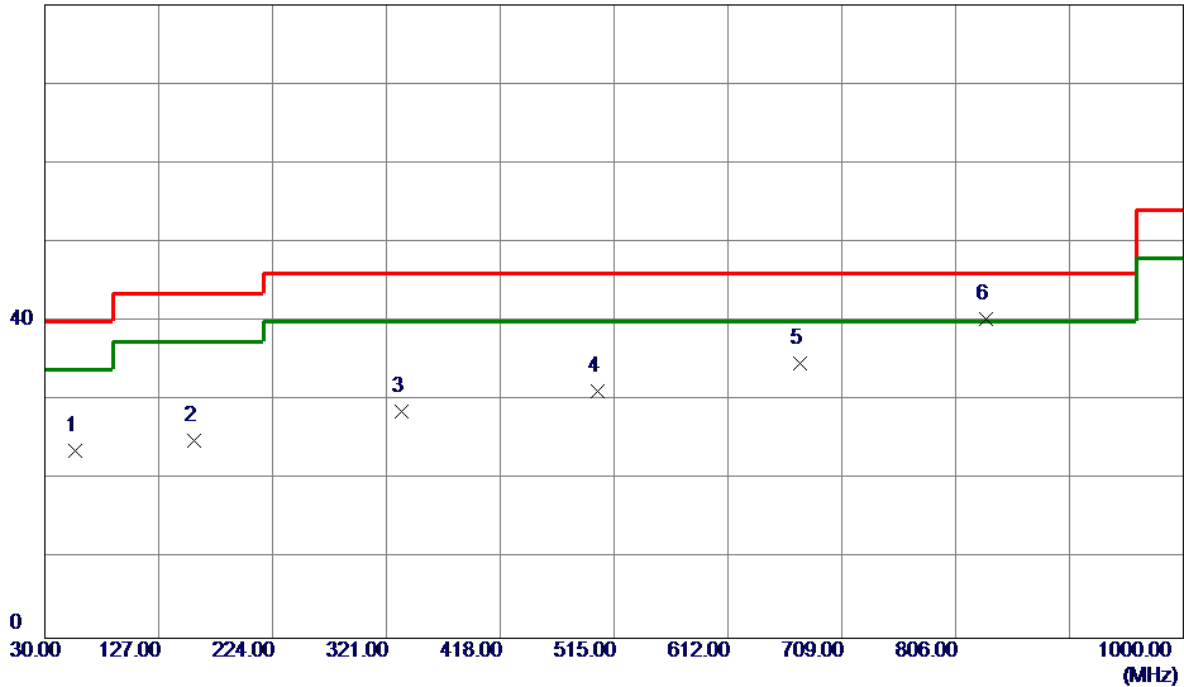
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Test Mode	TX AX(HE40) Mode Channel 03	Polarization	Vertical
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80 dBuV/m



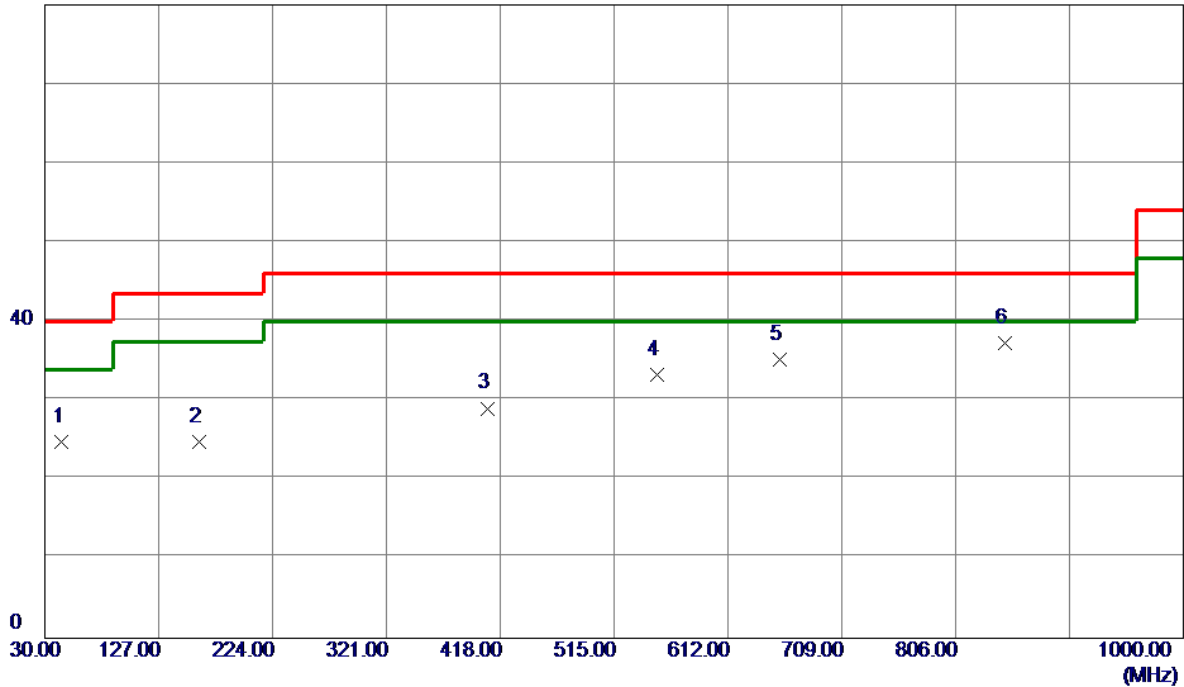
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	55.7050	35.18	-11.52	23.66	40.00	-16.34	Peak	
2	157.5549	35.91	-10.92	24.99	43.50	-18.51	Peak	
3	334.0950	38.18	-9.61	28.57	46.00	-17.43	Peak	
4	501.4200	37.22	-5.99	31.23	46.00	-14.77	Peak	
5	673.1100	37.25	-2.59	34.66	46.00	-11.34	Peak	
6 *	831.7050	41.00	-0.70	40.30	46.00	-5.70	Peak	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 03	Polarization	Horizontal
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	44.5500	36.23	-11.38	24.85	40.00	-15.15	Peak	
2	161.4350	35.64	-10.90	24.74	43.50	-18.76	Peak	
3	406.8450	36.91	-7.87	29.04	46.00	-16.96	Peak	
4	551.8600	38.20	-4.94	33.26	46.00	-12.74	Peak	
5	656.1350	38.01	-2.76	35.25	46.00	-10.75	Peak	
6 *	847.7100	37.63	-0.42	37.21	46.00	-8.79	Peak	

## REMARKS:

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

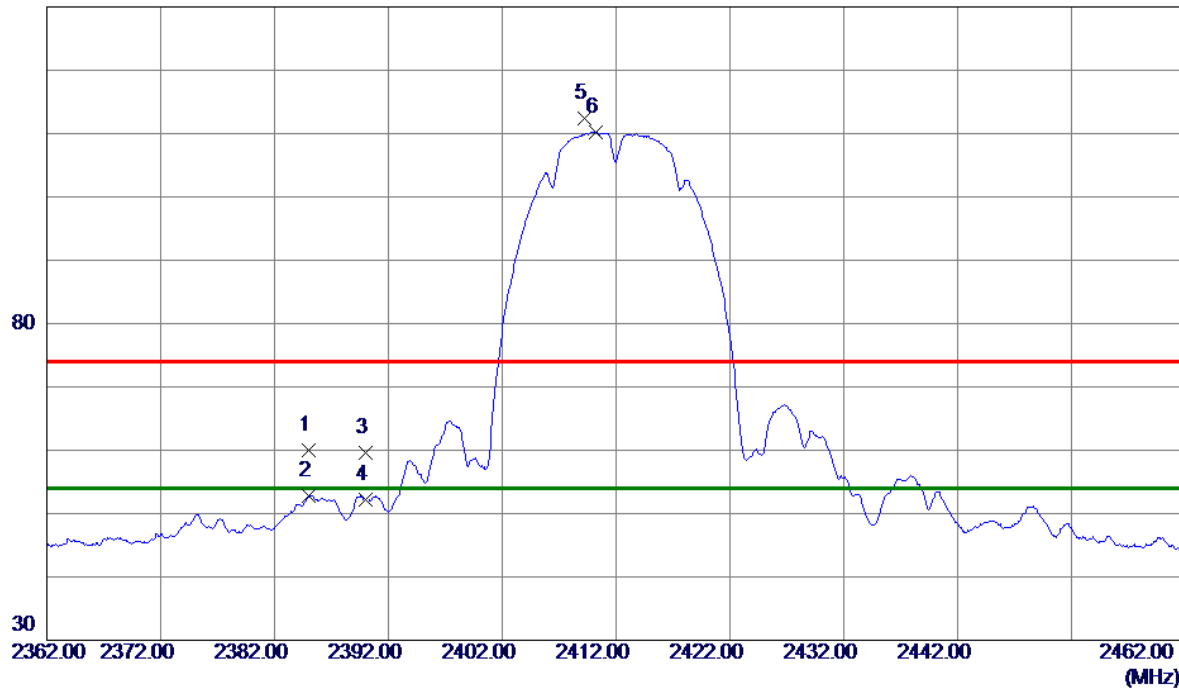
(2) Margin Level = Measurement Value - Limit Value.

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



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

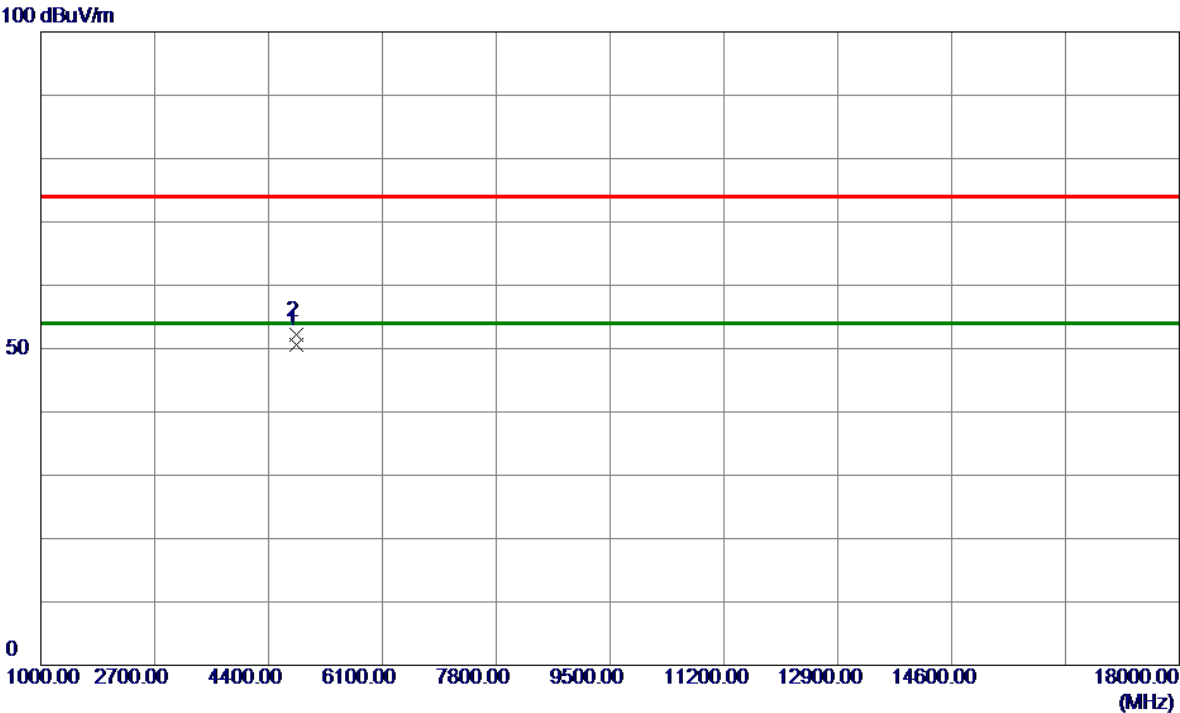


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.0500	52.22	7.69	59.91	74.00	-14.09	Peak	
2	2385.0500	45.17	7.69	52.86	54.00	-1.14	AVG	
3	2390.0000	51.83	7.70	59.53	74.00	-14.47	Peak	
4	2390.0000	44.41	7.70	52.11	54.00	-1.89	AVG	
5	2409.2000	104.67	7.72	112.39	74.00	38.39	Peak	No Limit
6 *	2410.2500	102.57	7.72	110.29	54.00	56.29	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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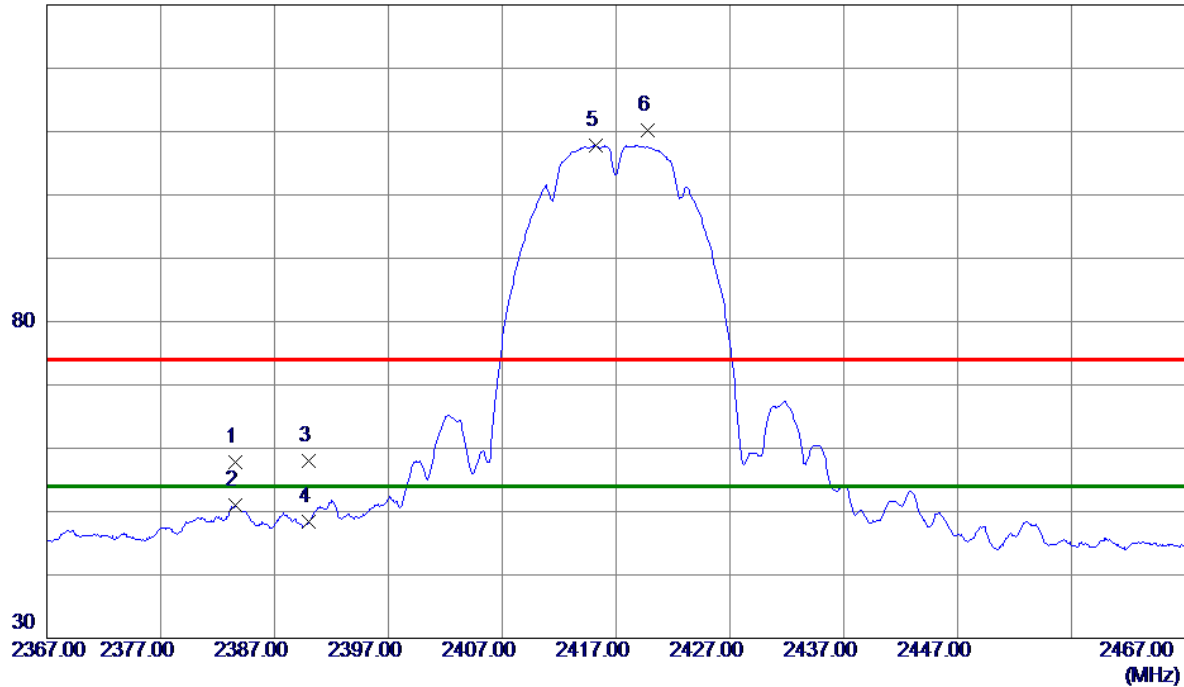


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9750	47.77	2.84	50.61	54.00	-3.39	AVG	
2	4824.0250	49.26	2.84	52.10	74.00	-21.90	Peak	

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m



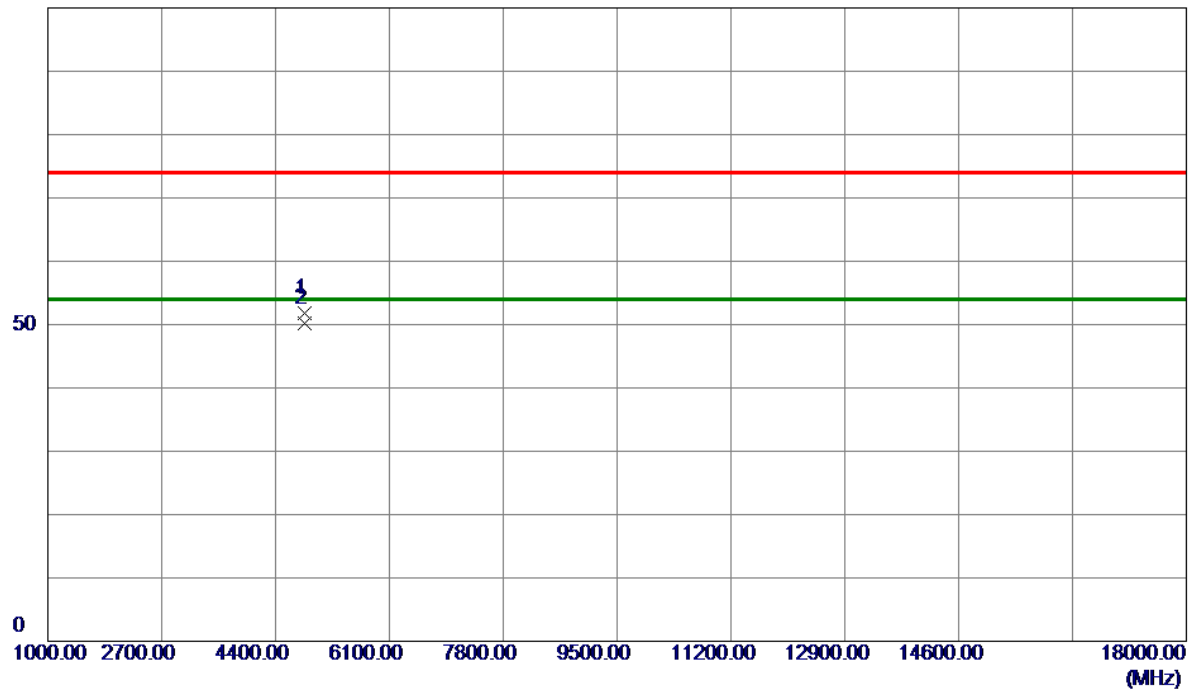
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2383.5500	50.10	7.69	57.79	74.00	-16.21	Peak	
2	2383.5500	43.25	7.69	50.94	54.00	-3.06	AVG	
3	2390.0000	50.29	7.70	57.99	74.00	-16.01	Peak	
4	2390.0000	40.70	7.70	48.40	54.00	-5.60	AVG	
5 *	2415.2500	100.10	7.73	107.83	54.00	53.83	AVG	No Limit
6	2419.7500	102.42	7.73	110.15	74.00	36.15	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	Vertical
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100 dBuV/m



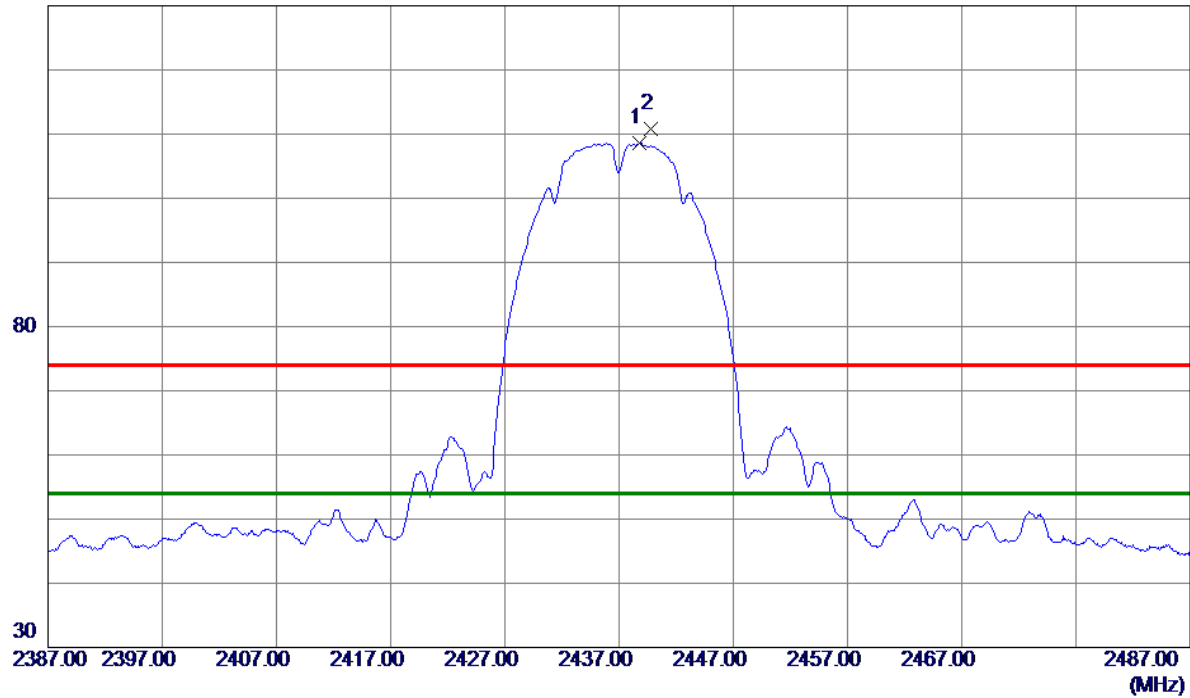
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4833.9500	49.02	2.86	51.88	74.00	-22.12	Peak	
2 *	4834.0000	47.39	2.86	50.25	54.00	-3.75	AVG	

## 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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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.7500	100.85	7.76	108.61	54.00	54.61	AVG	No Limit
2	2439.7500	103.09	7.76	110.85	74.00	36.85	Peak	No Limit

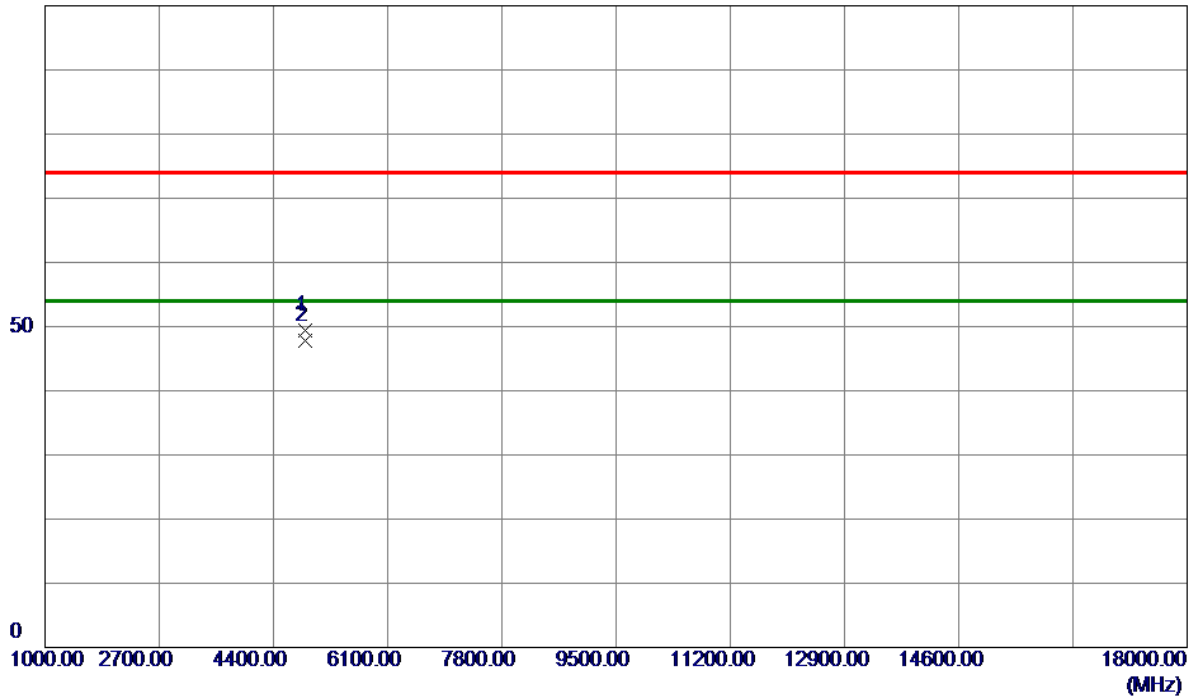
## REMARKS:

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

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

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



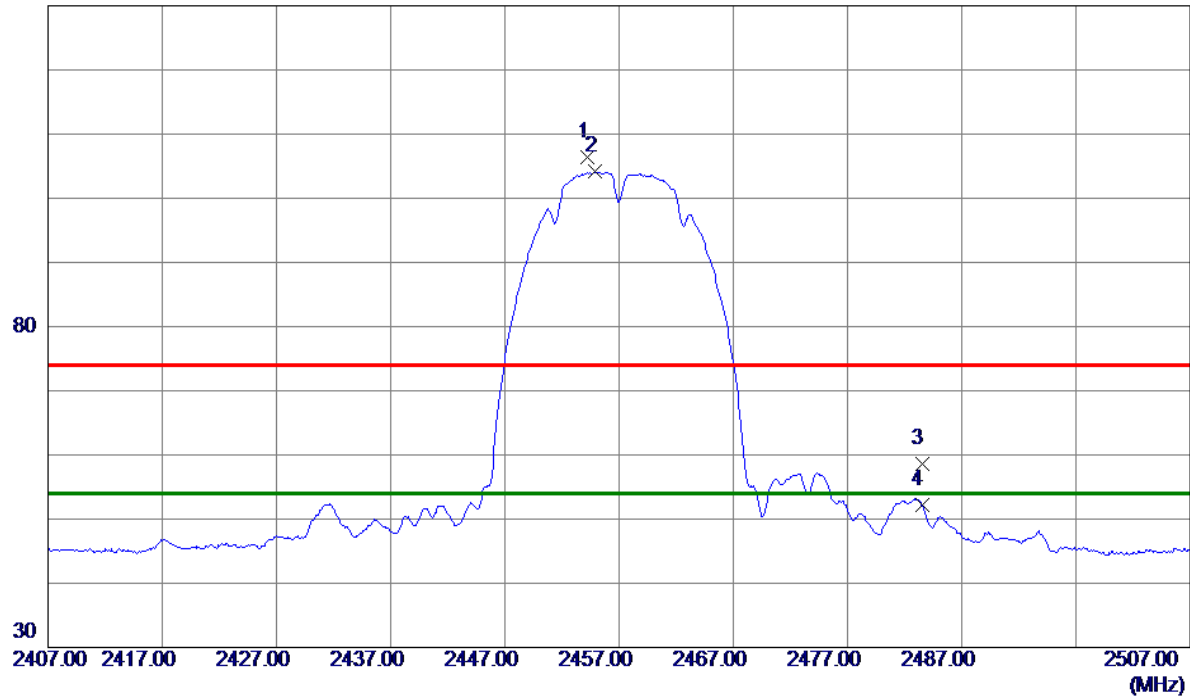
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9500	46.40	2.96	49.36	74.00	-24.64	Peak	
2 *	4873.9750	44.93	2.96	47.89	54.00	-6.11	AVG	

## REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m



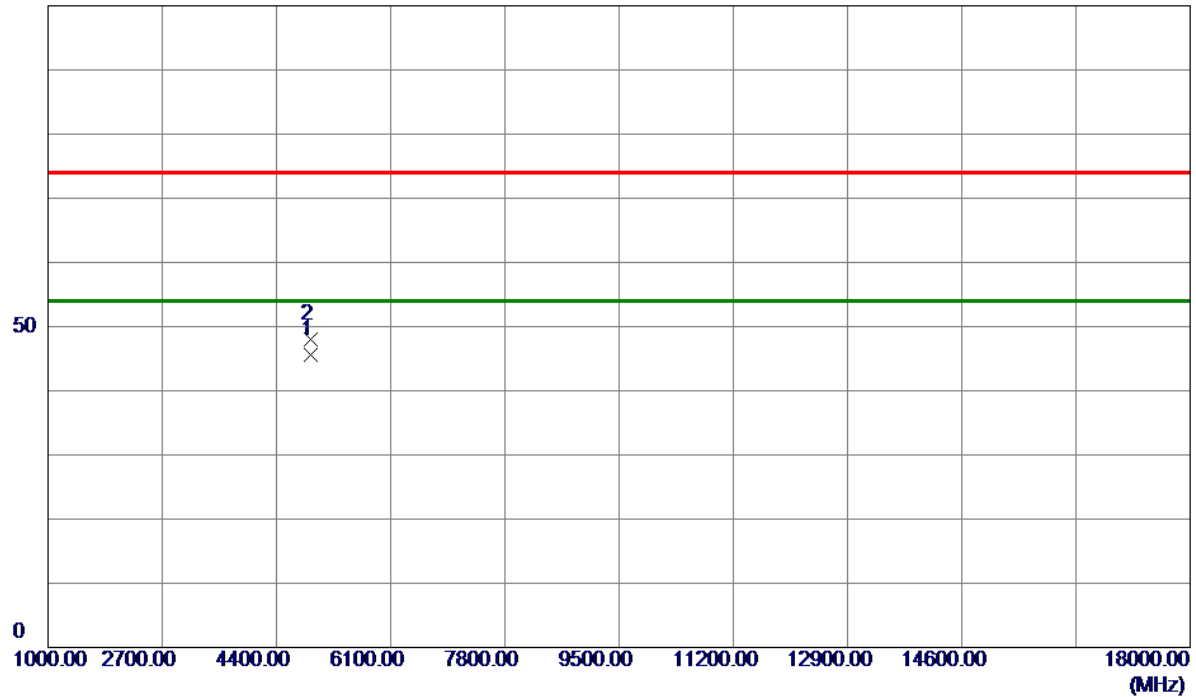
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.2500	98.58	7.77	106.35	74.00	32.35	Peak	No Limit
2 *	2454.8500	96.36	7.78	104.14	54.00	50.14	AVG	No Limit
3	2483.5000	50.81	7.81	58.62	74.00	-15.38	Peak	
4	2483.5000	44.42	7.81	52.23	54.00	-1.77	AVG	

## REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.9450	42.49	3.05	45.54	54.00	-8.46	AVG	
2	4914.0050	44.95	3.05	48.00	74.00	-26.00	Peak	

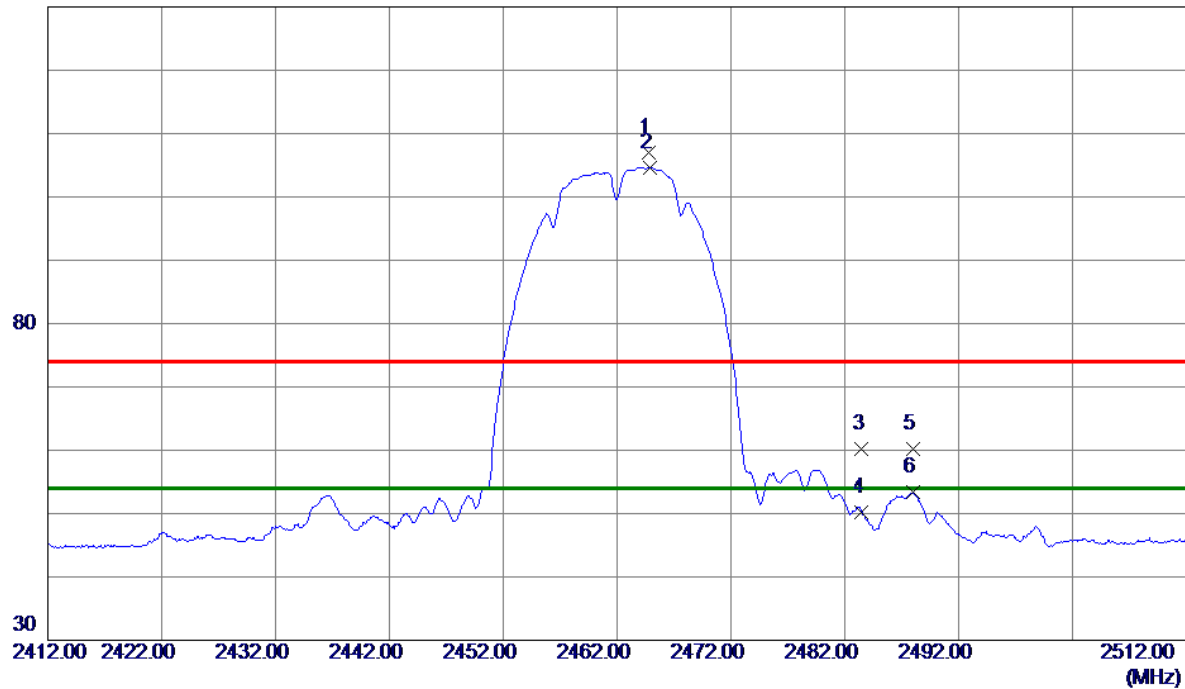
## REMARKS:

- (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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130 dBuV/m



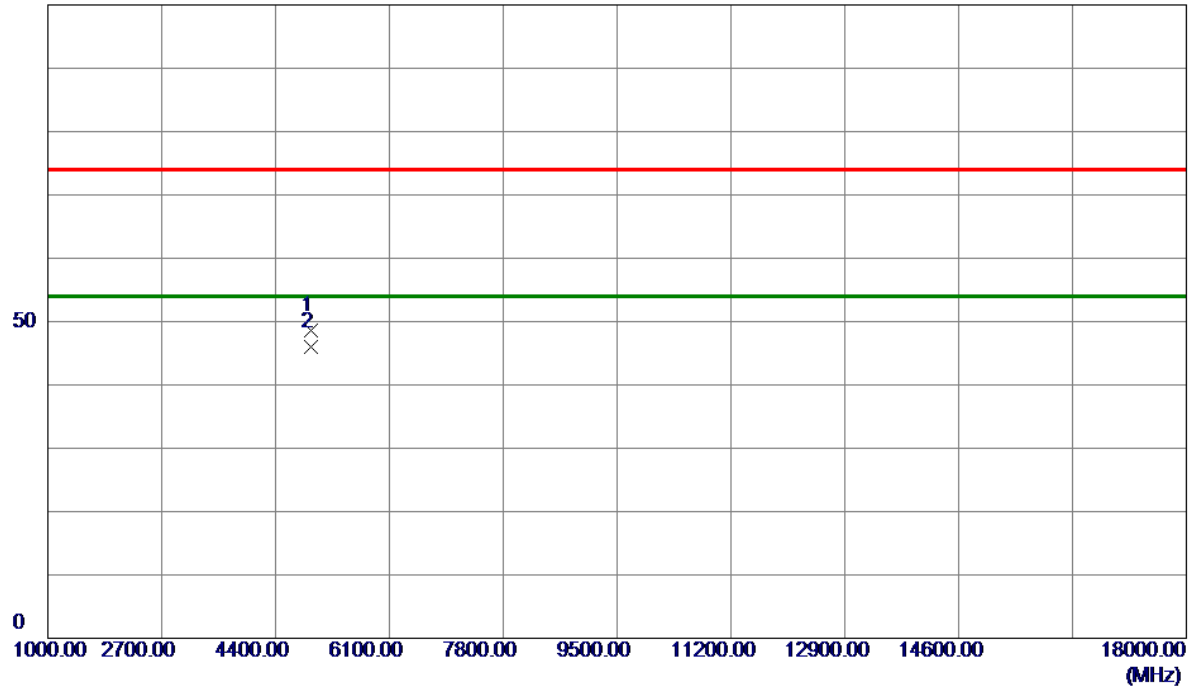
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.7500	99.22	7.79	107.01	74.00	33.01	Peak	No Limit
2 *	2464.9000	96.89	7.79	104.68	54.00	50.68	AVG	No Limit
3	2483.5000	52.41	7.81	60.22	74.00	-13.78	Peak	
4	2483.5000	42.36	7.81	50.17	54.00	-3.83	AVG	
5	2487.9500	52.34	7.82	60.16	74.00	-13.84	Peak	
6	2487.9500	45.50	7.82	53.32	54.00	-0.68	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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100 dBuV/m



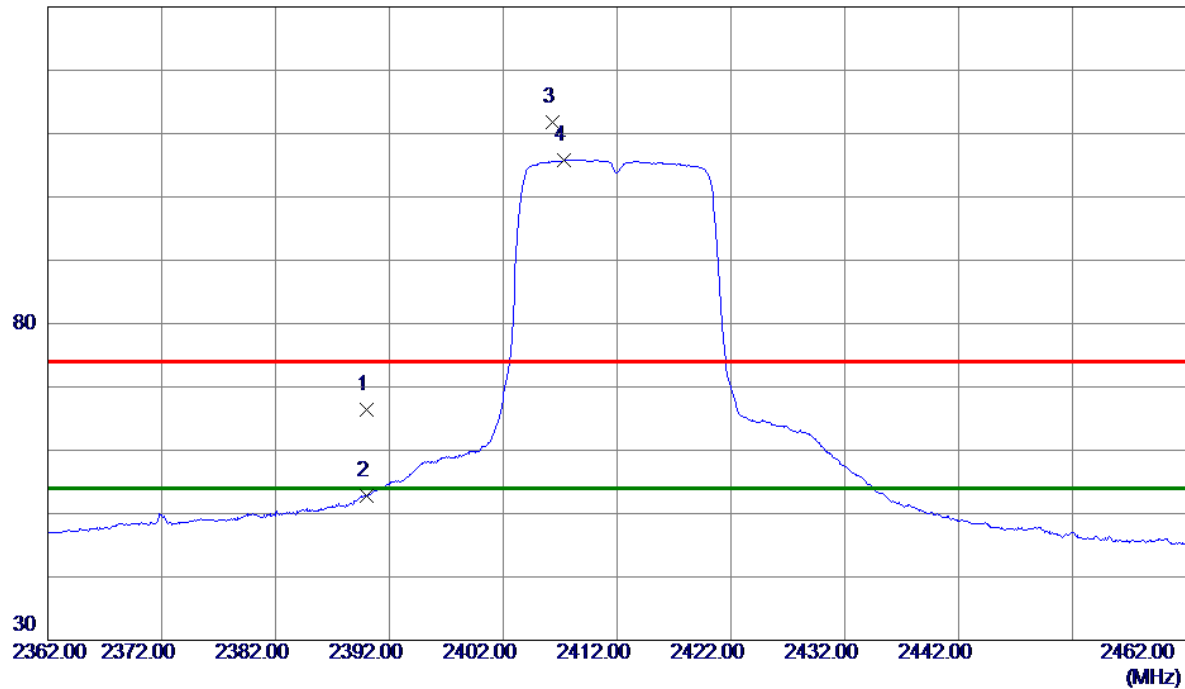
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.8750	45.59	3.07	48.66	74.00	-25.34	Peak	
2 *	4923.9800	42.84	3.07	45.91	54.00	-8.09	AVG	

## REMARKS:

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

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



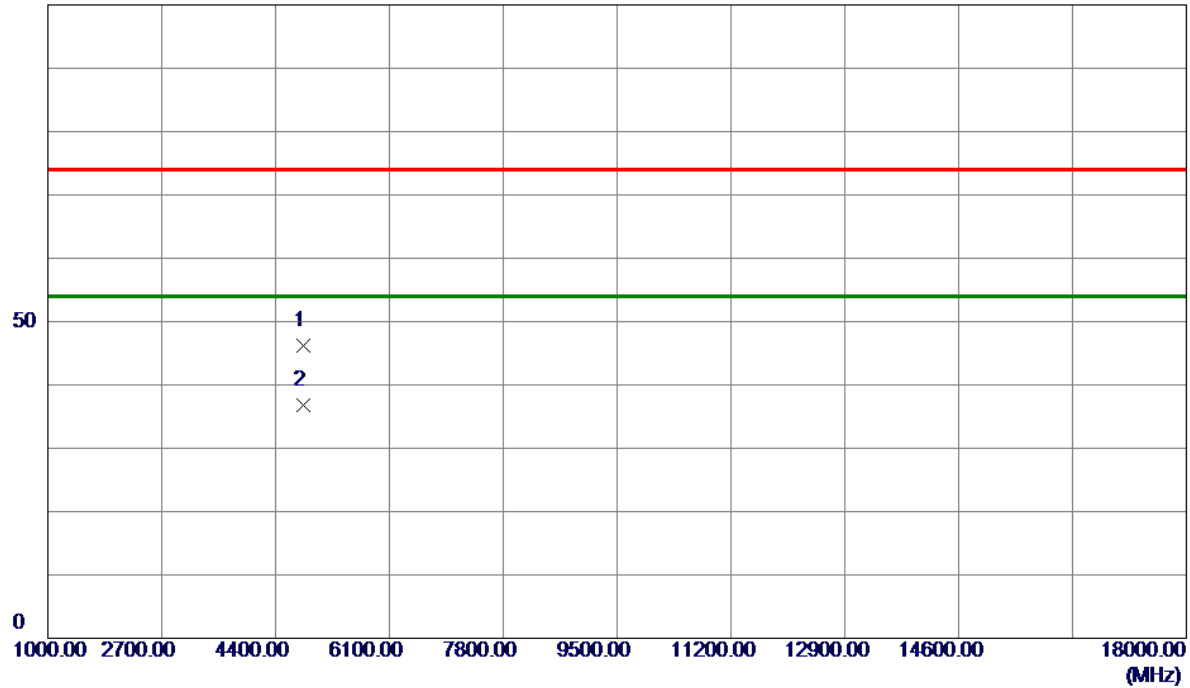
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.66	7.70	66.36	74.00	-7.64	Peak	
2	2390.0000	45.18	7.70	52.88	54.00	-1.12	AVG	
3	2406.3500	104.06	7.72	111.78	74.00	37.78	Peak	No Limit
4 *	2407.3500	98.06	7.72	105.78	54.00	51.78	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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100 dBuV/m

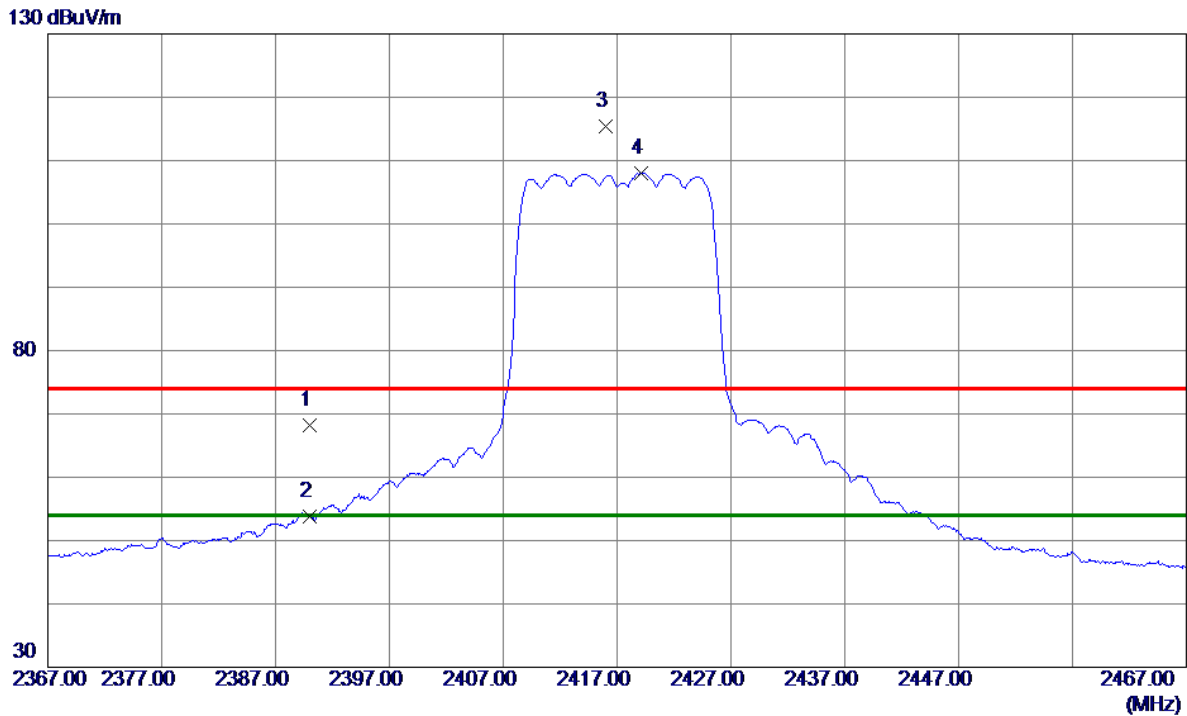


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4820.4250	43.28	2.83	46.11	74.00	-27.89	Peak	
2 *	4823.7500	33.94	2.84	36.78	54.00	-17.22	AVG	

## REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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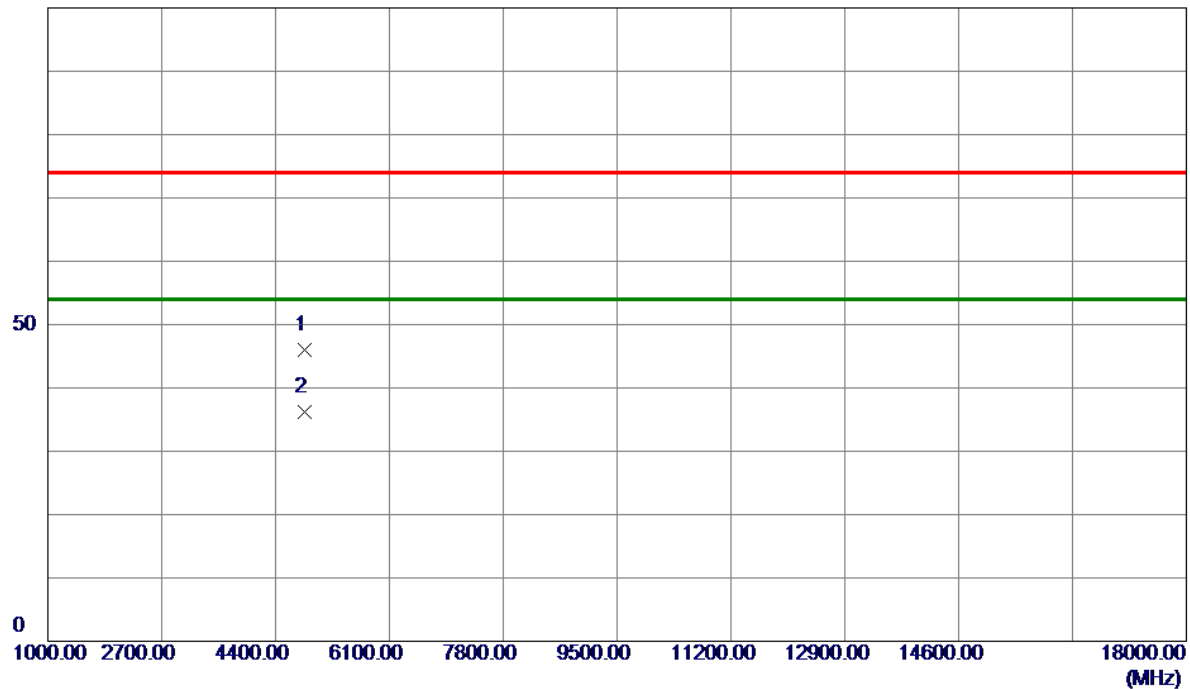
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.42	7.70	68.12	74.00	-5.88	Peak	
2	2390.0000	46.13	7.70	53.83	54.00	-0.17	AVG	
3	2416.0000	107.70	7.73	115.43	74.00	41.43	Peak	No Limit
4 *	2419.1500	100.21	7.73	107.94	54.00	53.94	AVG	No Limit

## REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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100 dBuV/m



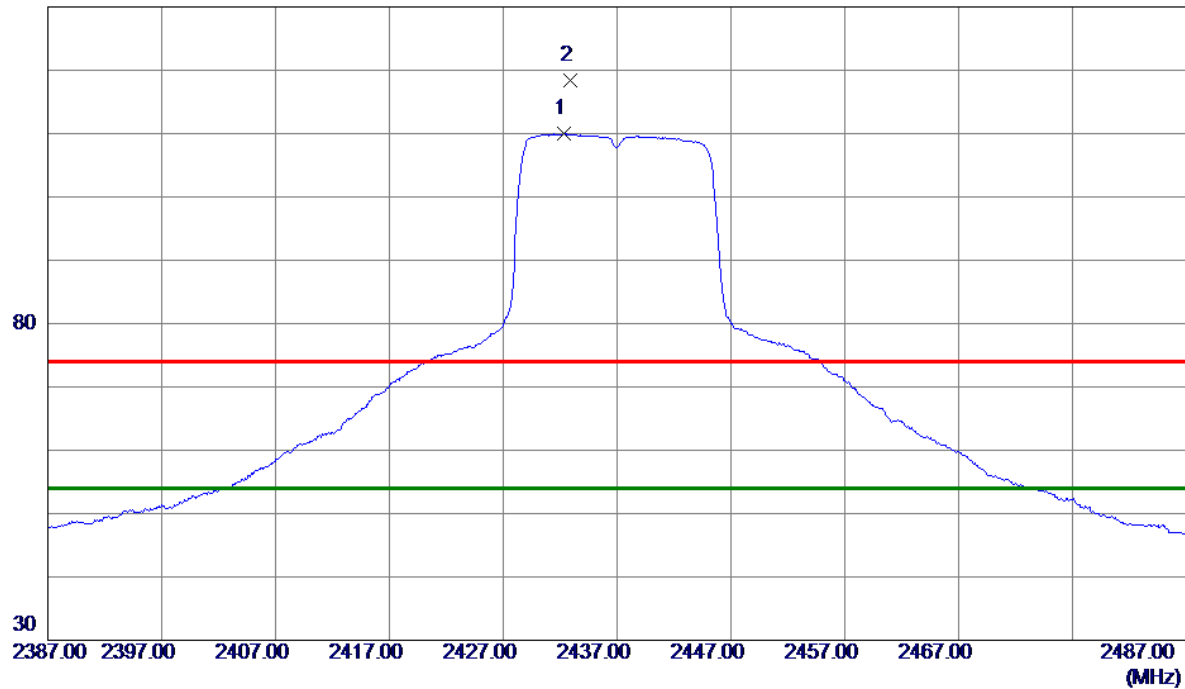
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4828.0000	43.16	2.85	46.01	74.00	-27.99	Peak	
2 *	4834.0600	33.26	2.86	36.12	54.00	-17.88	AVG	

## 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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130 dBuV/m



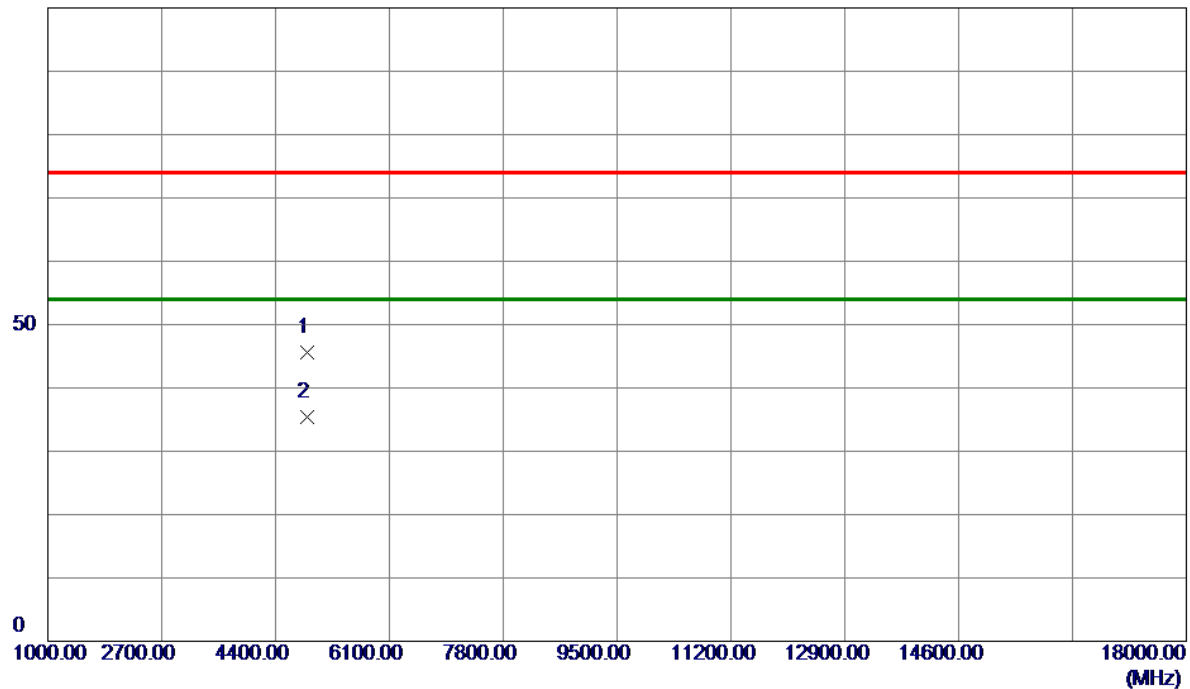
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2432.3500	102.17	7.75	109.92	54.00	55.92	AVG	No Limit
2	2432.9000	110.58	7.75	118.33	74.00	44.33	Peak	No Limit

## REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.1549	42.57	2.95	45.52	74.00	-28.48	Peak	
2 *	4873.9300	32.51	2.96	35.47	54.00	-18.53	AVG	

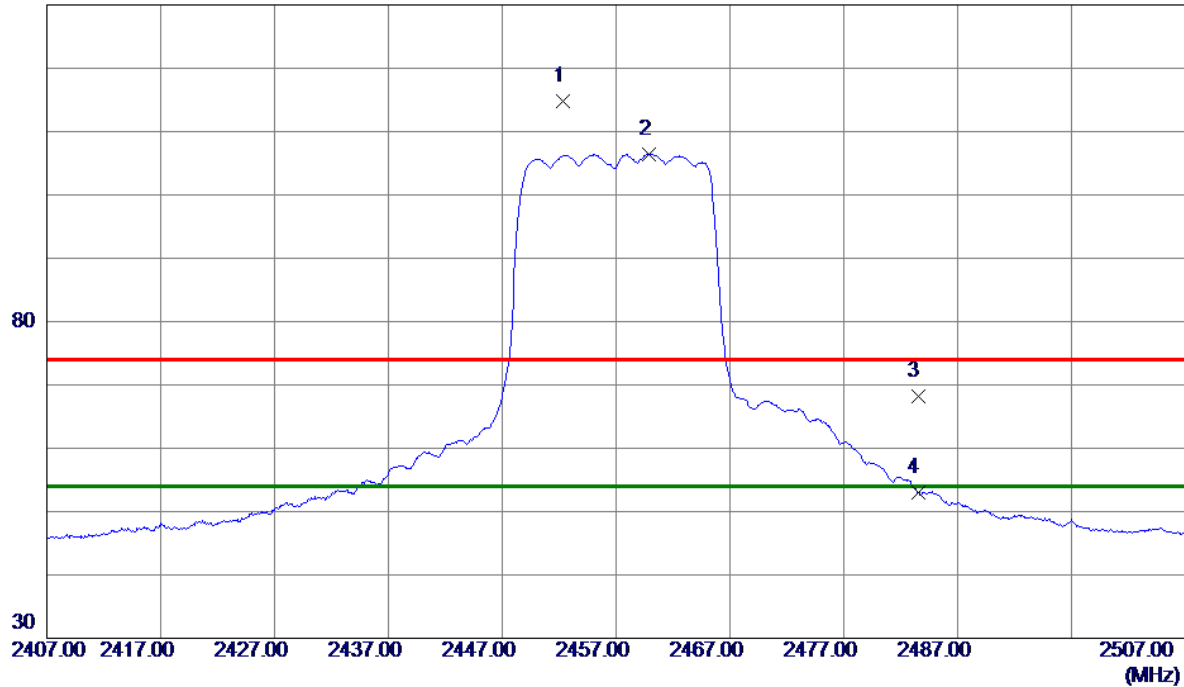
## REMARKS:

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



Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m



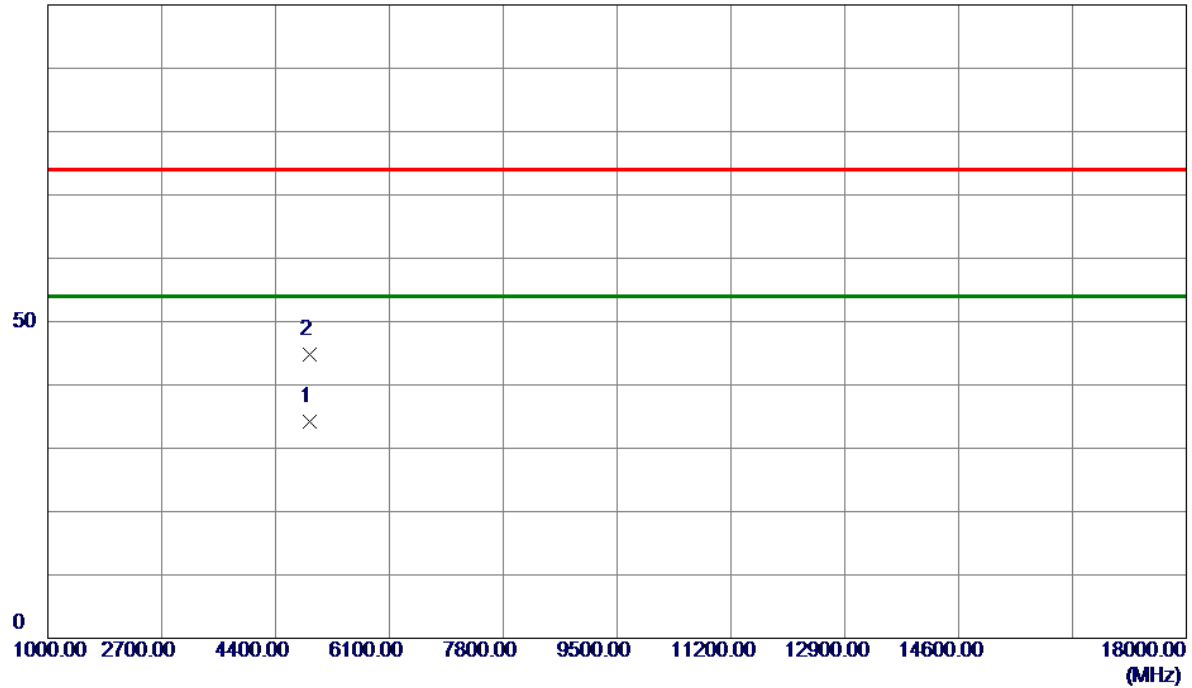
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2452.3000	106.94	7.77	114.71	74.00	40.71	Peak	No Limit
2 *	2459.9000	98.71	7.78	106.49	54.00	52.49	AVG	No Limit
3	2483.5000	60.42	7.81	68.23	74.00	-5.77	Peak	
4	2483.5000	45.15	7.81	52.96	54.00	-1.04	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
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100 dBuV/m



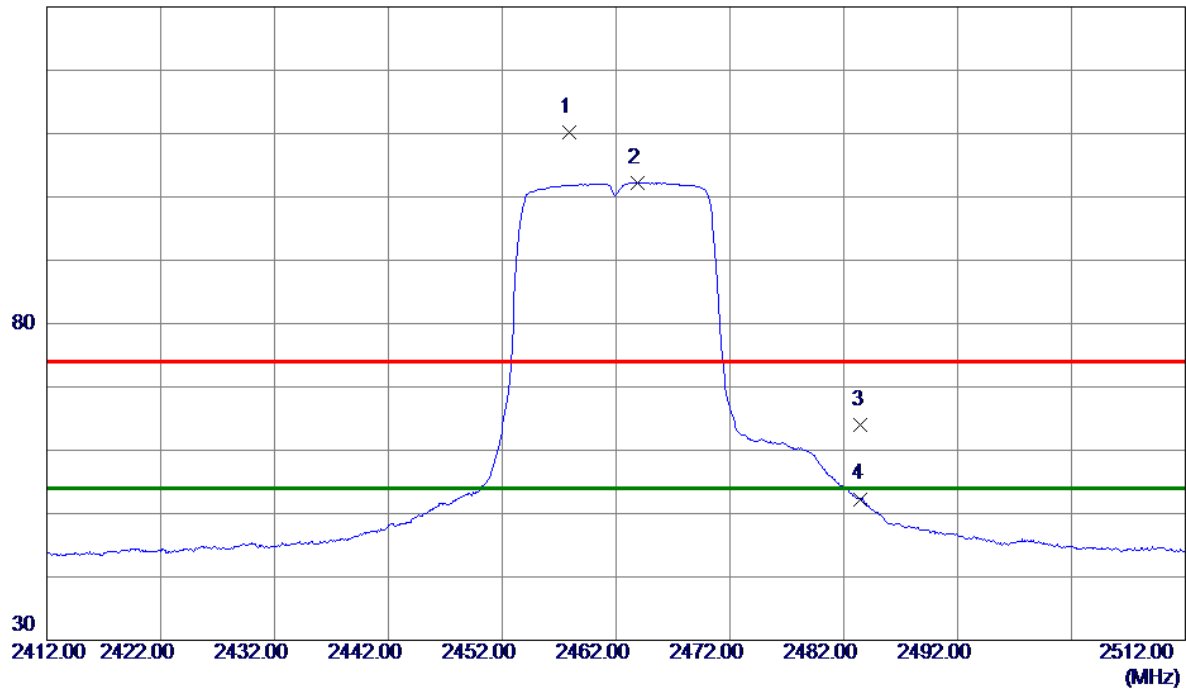
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4915.4800	31.07	3.05	34.12	54.00	-19.88	AVG	
2	4918.2300	41.77	3.06	44.83	74.00	-29.17	Peak	

## REMARKS:

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

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



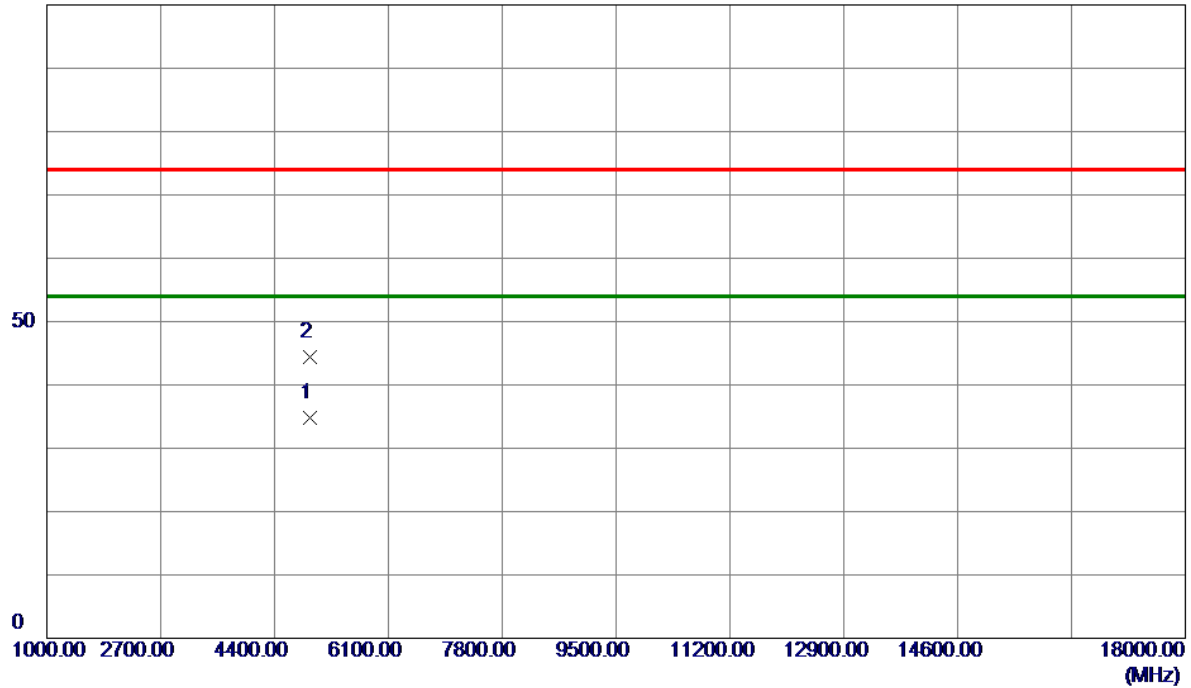
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.9000	102.43	7.78	110.21	74.00	36.21	Peak	No Limit
2 *	2463.8500	94.46	7.79	102.25	54.00	48.25	AVG	No Limit
3	2483.5000	56.16	7.81	63.97	74.00	-10.03	Peak	
4	2483.5000	44.49	7.81	52.30	54.00	-1.70	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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100 dBuV/m

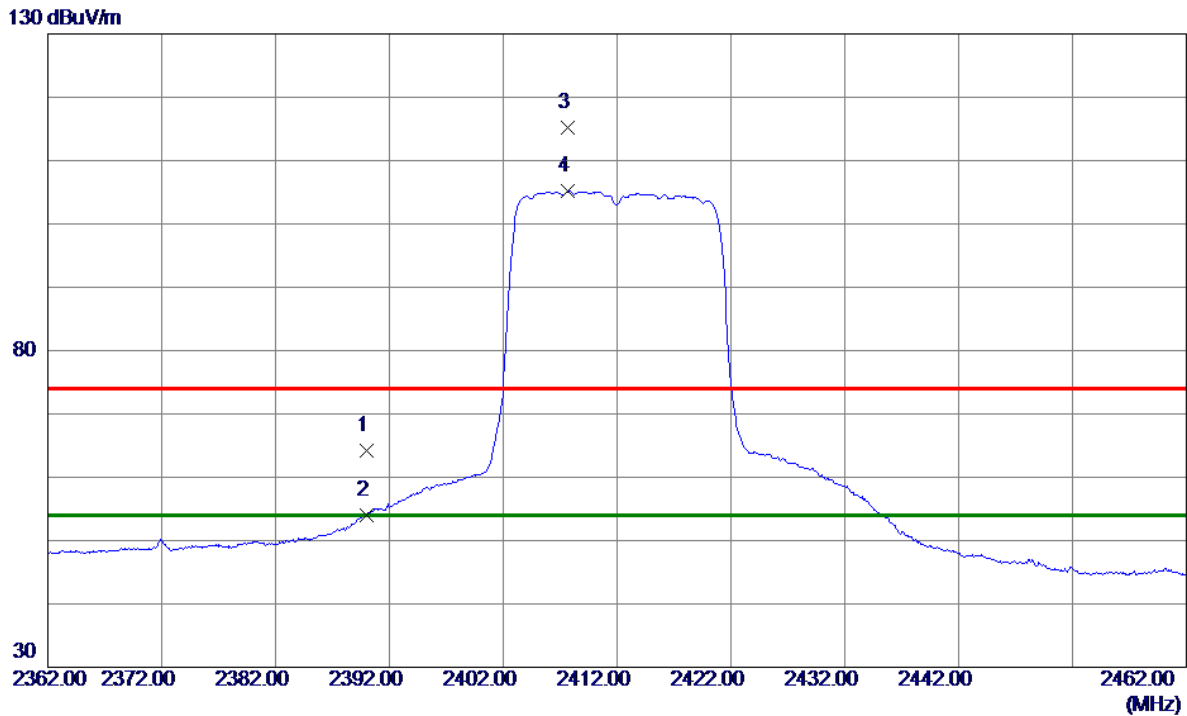


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.1549	31.66	3.07	34.73	54.00	-19.27	AVG	
2	4927.6800	41.35	3.08	44.43	74.00	-29.57	Peak	

## REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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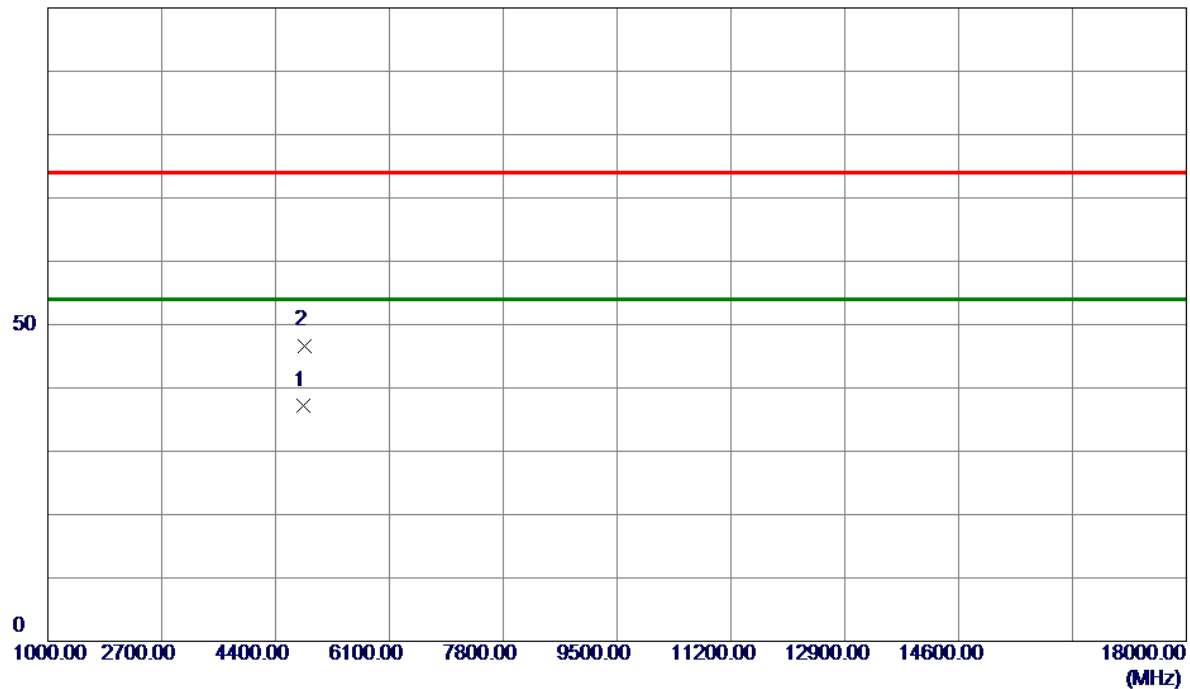
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.51	7.70	64.21	74.00	-9.79	Peak	
2	2390.0000	46.23	7.70	53.93	54.00	-0.07	AVG	
3	2407.7000	107.41	7.72	115.13	74.00	41.13	Peak	No Limit
4 *	2407.7000	97.41	7.72	105.13	54.00	51.13	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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100 dBuV/m



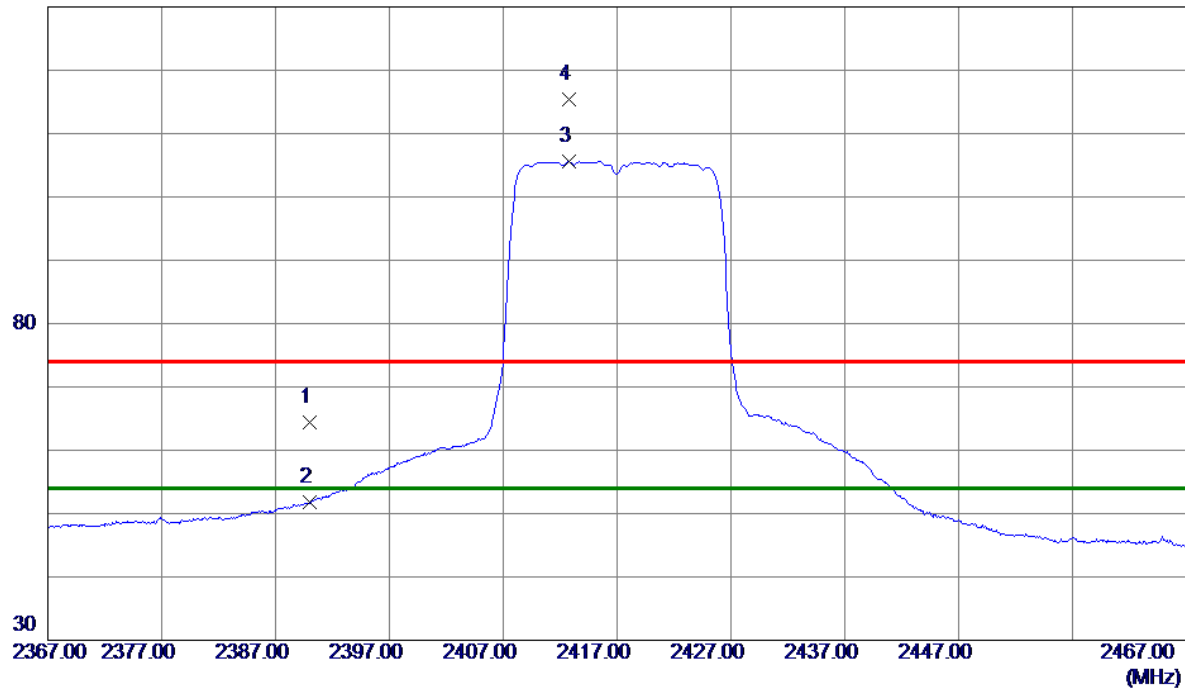
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4821.3000	34.28	2.83	37.11	54.00	-16.89	AVG	
2	4826.0750	43.86	2.84	46.70	74.00	-27.30	Peak	

## 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
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130 dBuV/m



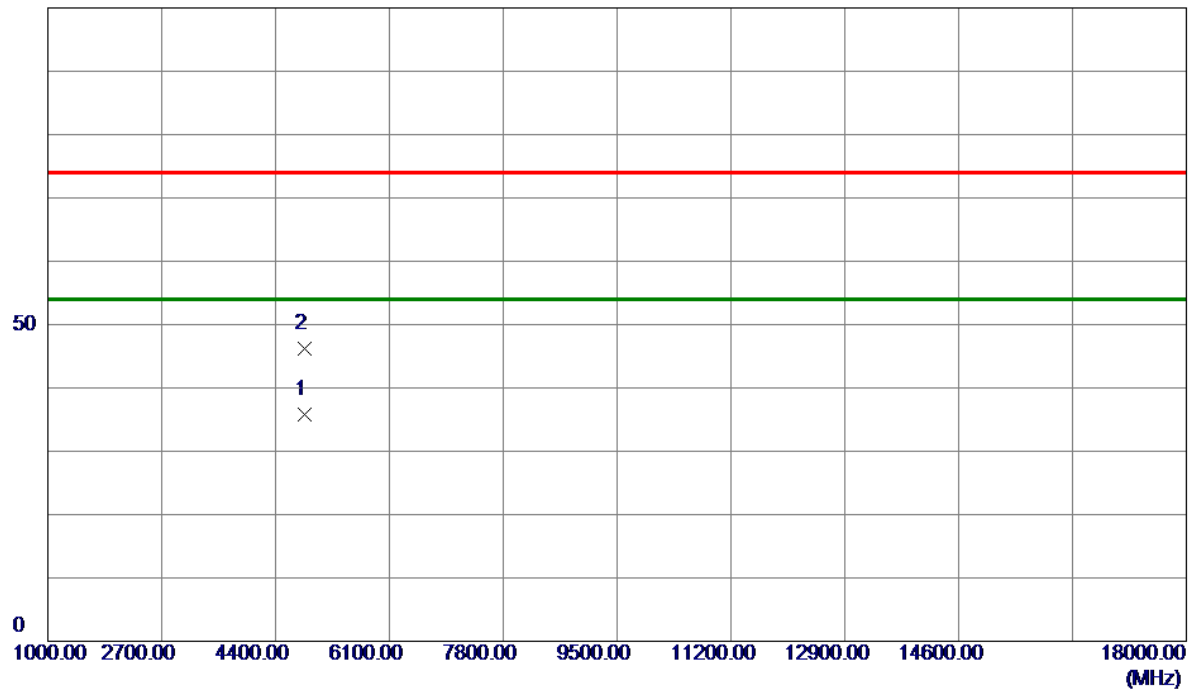
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.66	7.70	64.36	74.00	-9.64	Peak	
2	2390.0000	44.09	7.70	51.79	54.00	-2.21	AVG	
3 *	2412.7500	97.86	7.73	105.59	54.00	51.59	AVG	No Limit
4	2412.8000	107.64	7.73	115.37	74.00	41.37	Peak	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	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4831.2000	32.97	2.86	35.83	54.00	-18.17	AVG	
2	4839.3250	43.35	2.88	46.23	74.00	-27.77	Peak	

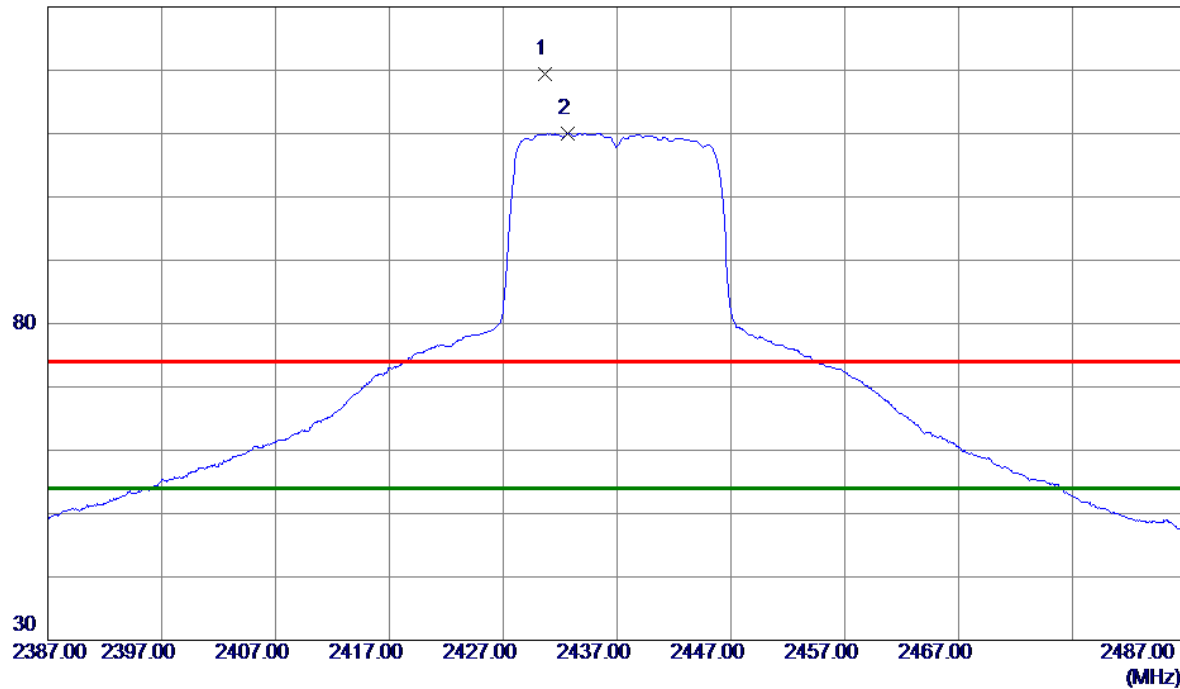
## REMARKS:

- (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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130 dBuV/m



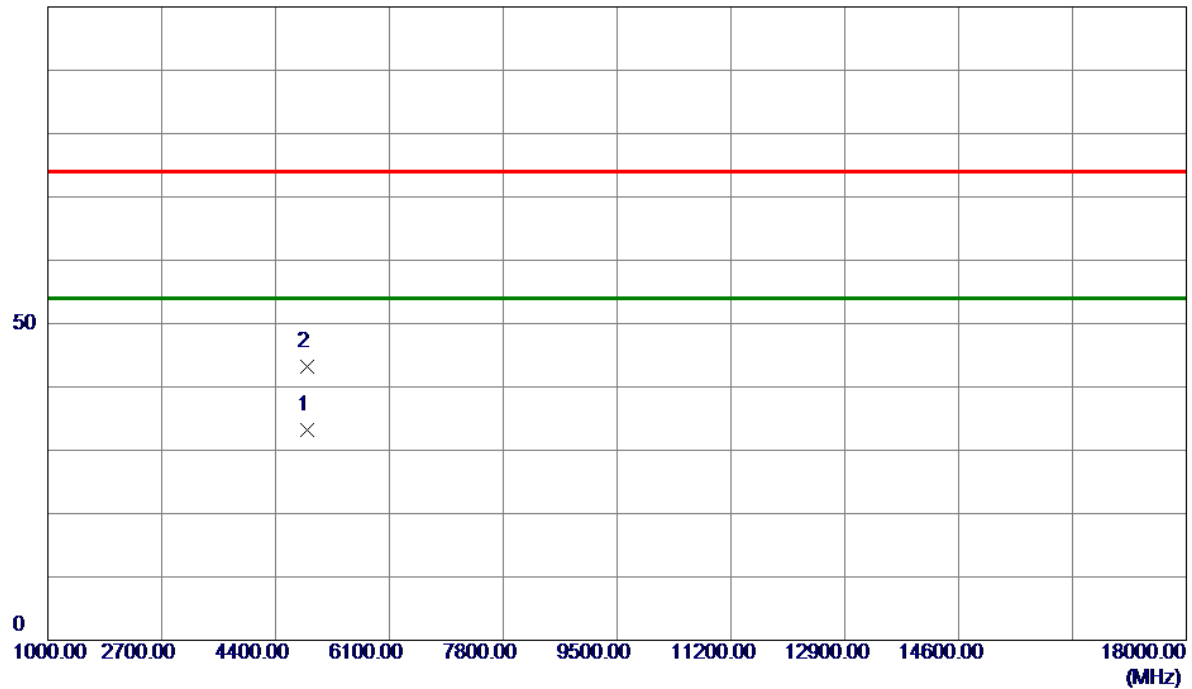
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2430.7000	111.70	7.75	119.45	74.00	45.45	Peak	No Limit
2 *	2432.7000	102.31	7.75	110.06	54.00	56.06	AVG	No Limit

## REMARKS:

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

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



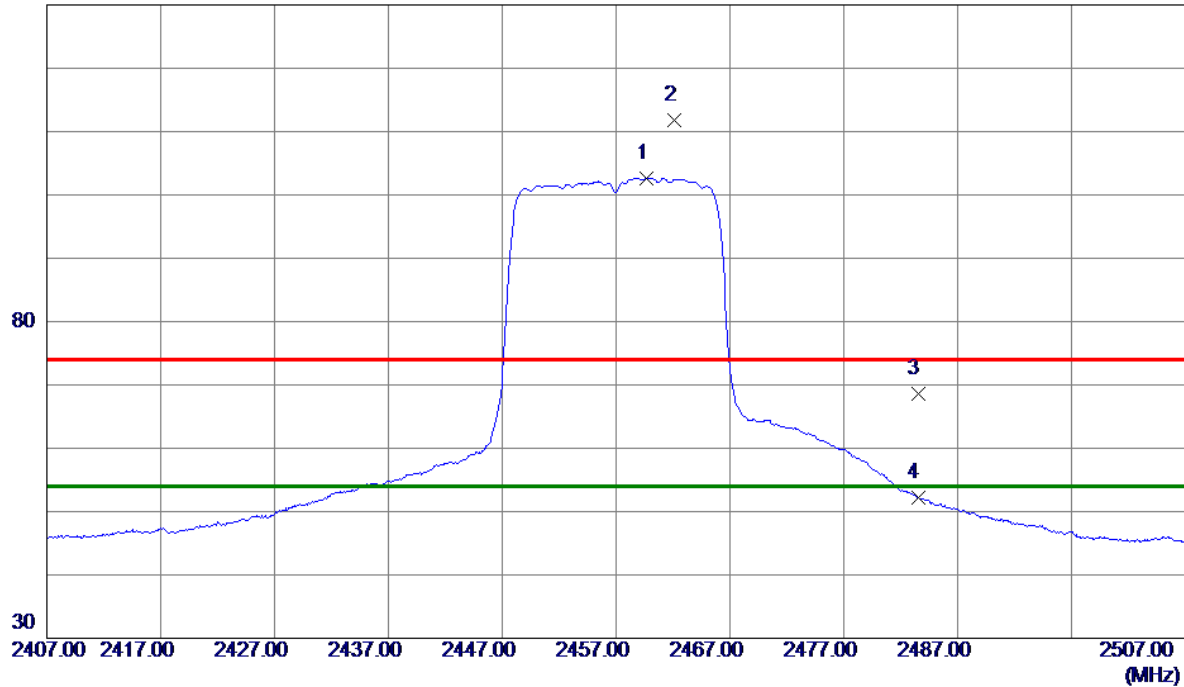
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4875.4000	30.24	2.96	33.20	54.00	-20.80	AVG	
2	4881.2000	40.29	2.97	43.26	74.00	-30.74	Peak	

## 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
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130 dBuV/m



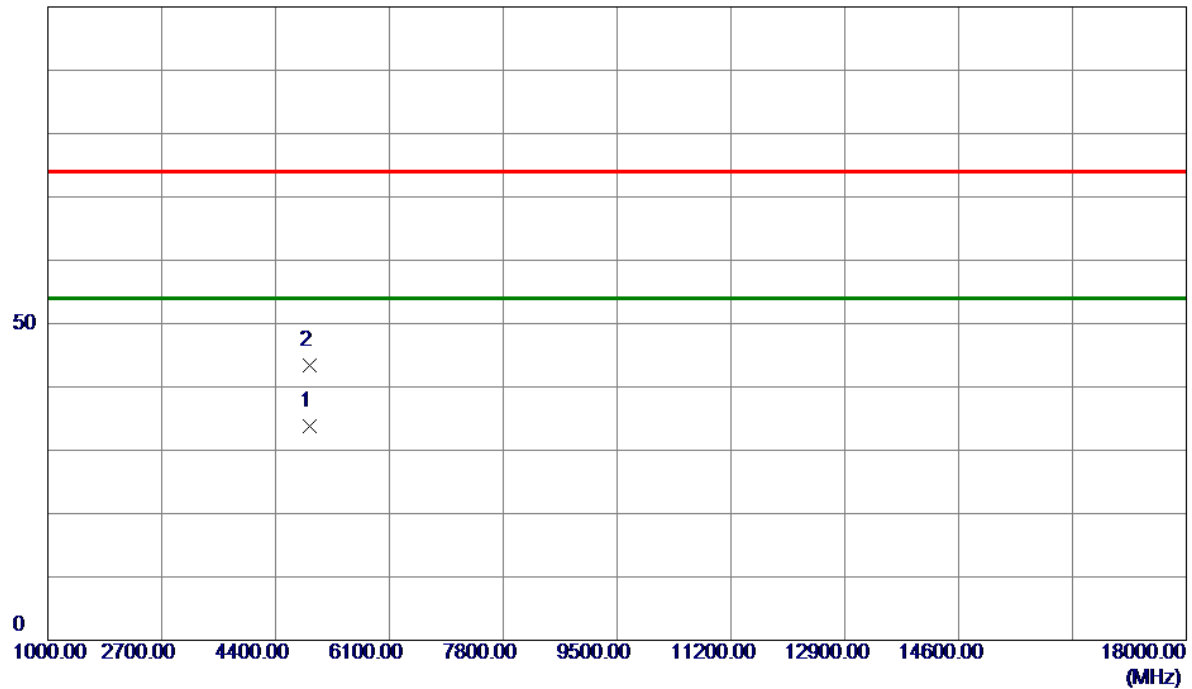
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2459.7000	94.86	7.78	102.64	54.00	48.64	AVG	No Limit
2	2462.1500	103.98	7.78	111.76	74.00	37.76	Peak	No Limit
3	2483.5000	60.72	7.81	68.53	74.00	-5.47	Peak	
4	2483.5000	44.34	7.81	52.15	54.00	-1.85	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	Vertical
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100 dBuV/m

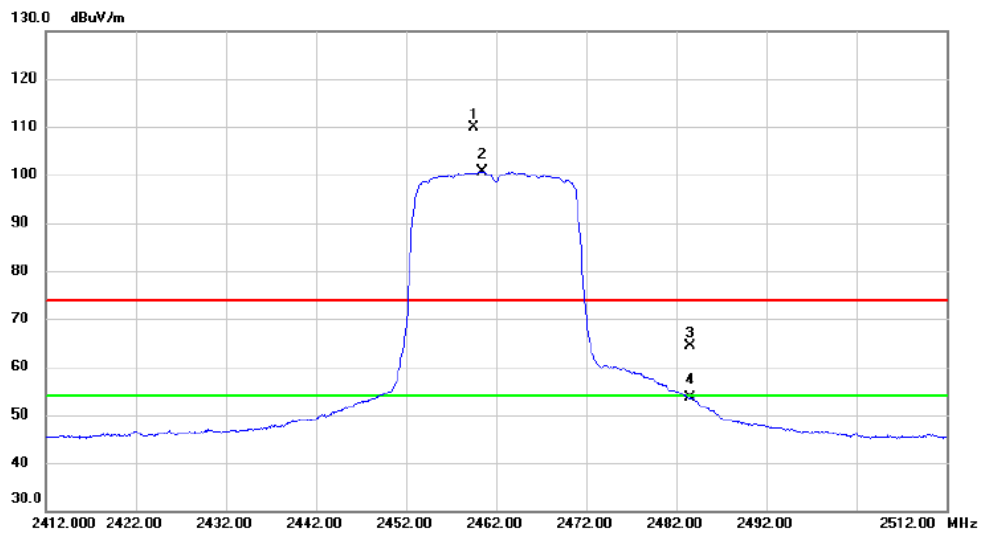


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4911.4000	30.74	3.04	33.78	54.00	-20.22	AVG	
2	4913.3000	40.41	3.05	43.46	74.00	-30.54	Peak	

## 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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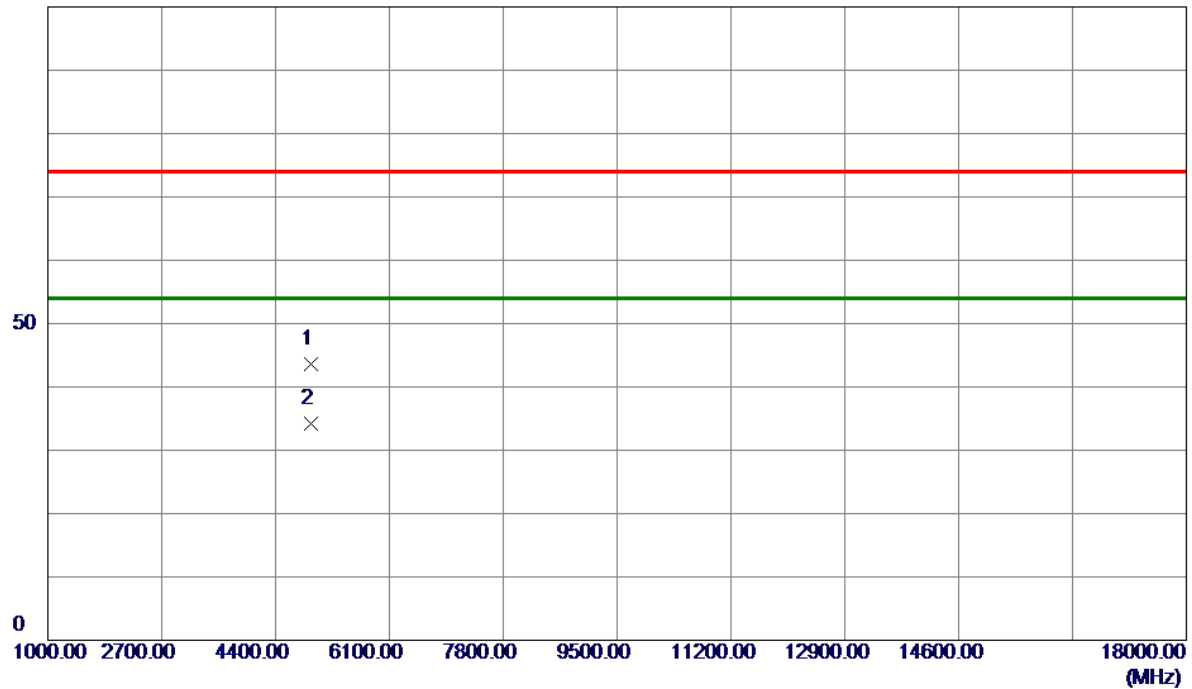
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.550	102.0	7.78	109.86	74.00	35.86	peak	No Limit
2	*	2460.500	92.89	7.78	100.67	54.00	46.67	AVG	No Limit
3		2483.500	56.58	7.81	64.39	74.00	-9.61	peak	
4		2483.500	45.82	7.81	53.63	54.00	-0.37	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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100 dBuV/m



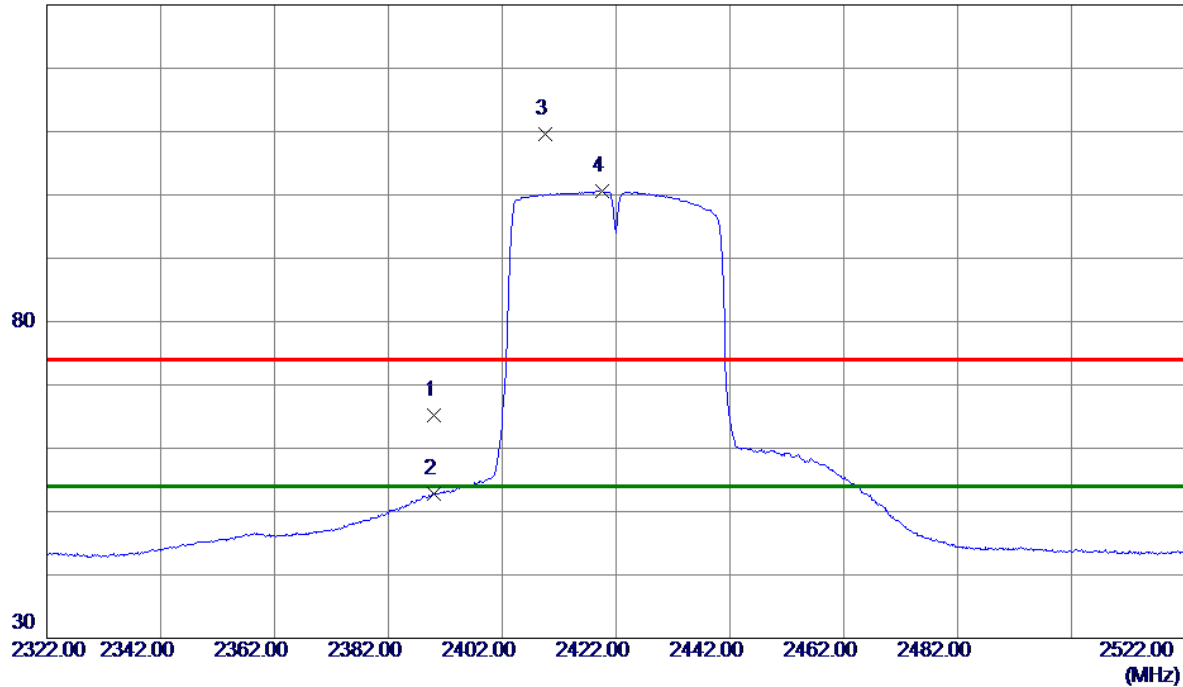
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.4000	40.55	3.07	43.62	74.00	-30.38	Peak	
2 *	4923.9000	31.14	3.07	34.21	54.00	-19.79	AVG	

## 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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130 dBuV/m



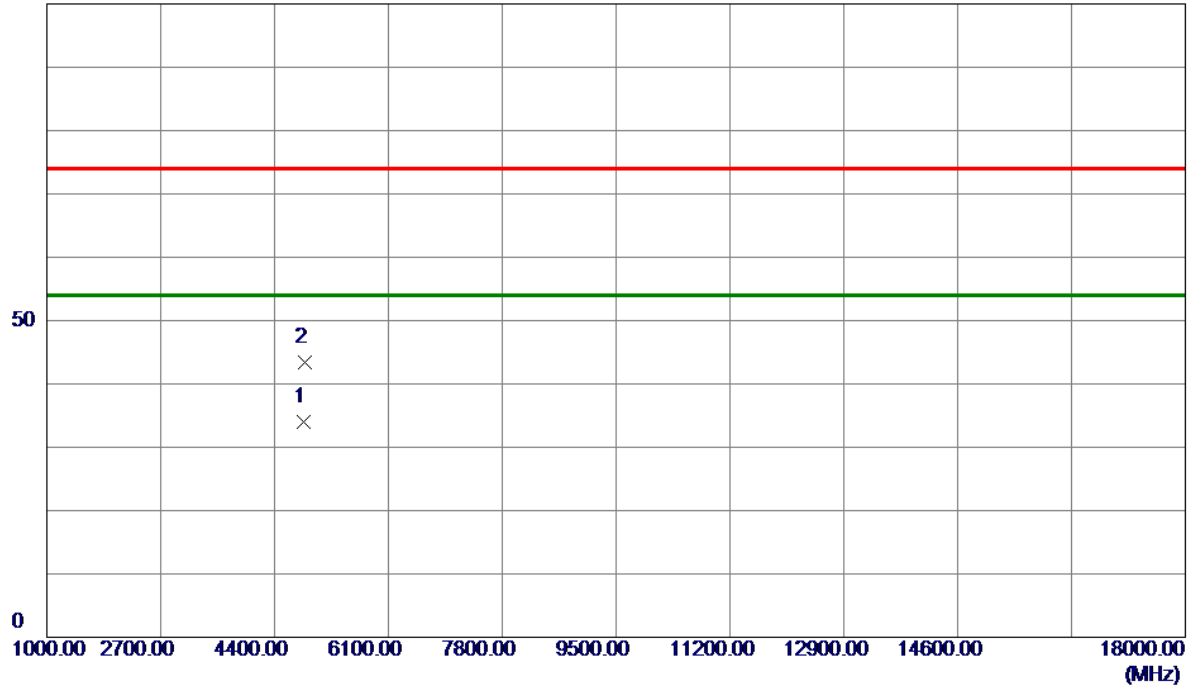
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.58	7.70	65.28	74.00	-8.72	Peak	
2	2390.0000	45.13	7.70	52.83	54.00	-1.17	AVG	
3	2409.6000	101.82	7.72	109.54	74.00	35.54	Peak	No Limit
4 *	2419.5000	92.85	7.73	100.58	54.00	46.58	AVG	No Limit

## REMARKS:

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

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



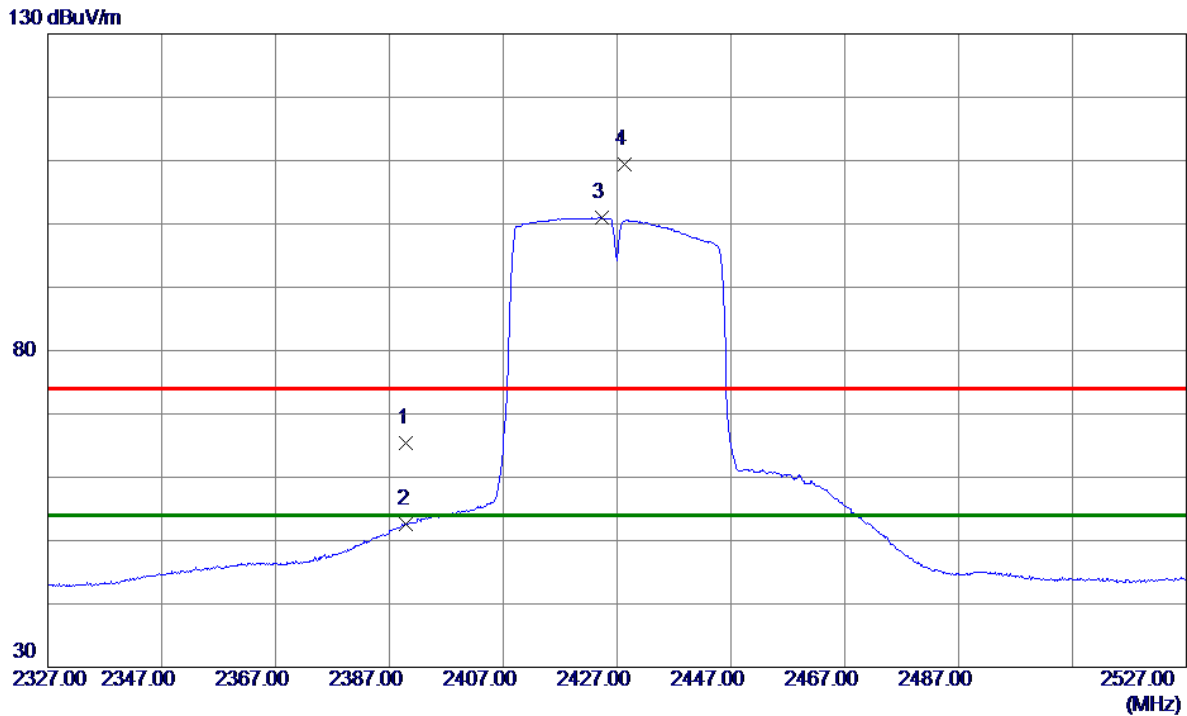
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4843.8000	31.12	2.89	34.01	54.00	-19.99	AVG	
2	4852.7000	40.53	2.91	43.44	74.00	-30.56	Peak	

## 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
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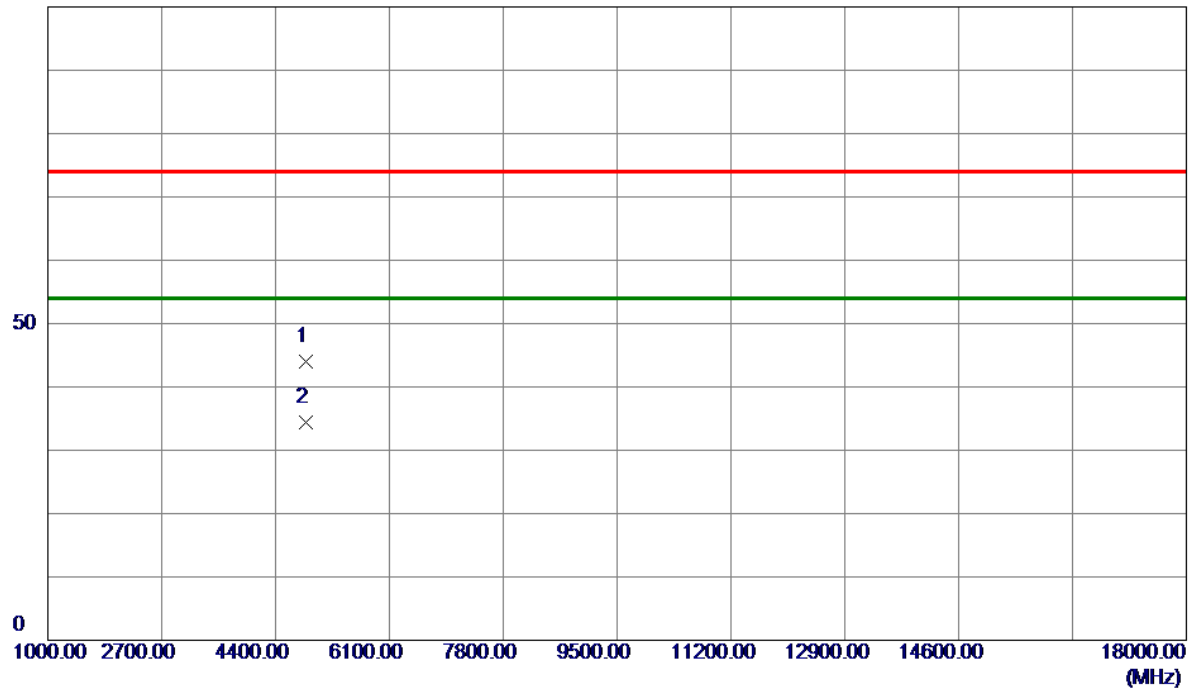
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.72	7.70	65.42	74.00	-8.58	Peak	
2	2390.0000	44.83	7.70	52.53	54.00	-1.47	AVG	
3 *	2424.4000	93.20	7.74	100.94	54.00	46.94	AVG	No Limit
4	2428.4000	101.70	7.74	109.44	74.00	35.44	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	Vertical
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100 dBuV/m



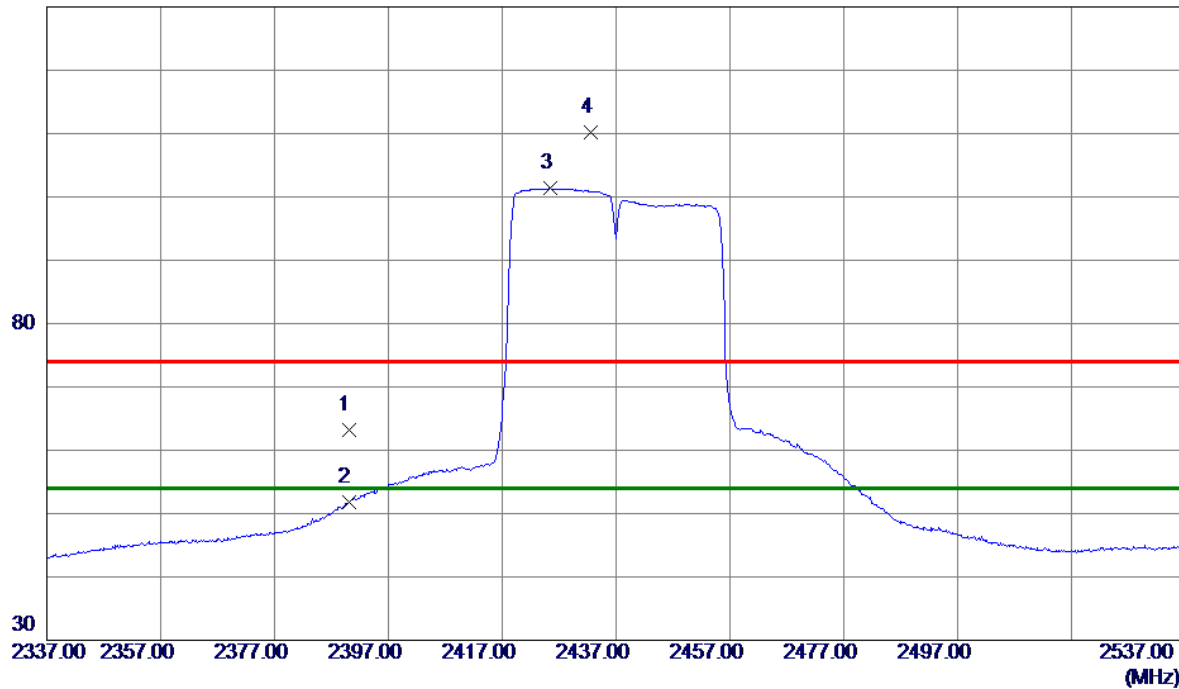
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4852.0000	41.00	2.91	43.91	74.00	-30.09	Peak	
2 *	4855.1000	31.42	2.91	34.33	54.00	-19.67	AVG	

## 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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130 dBuV/m



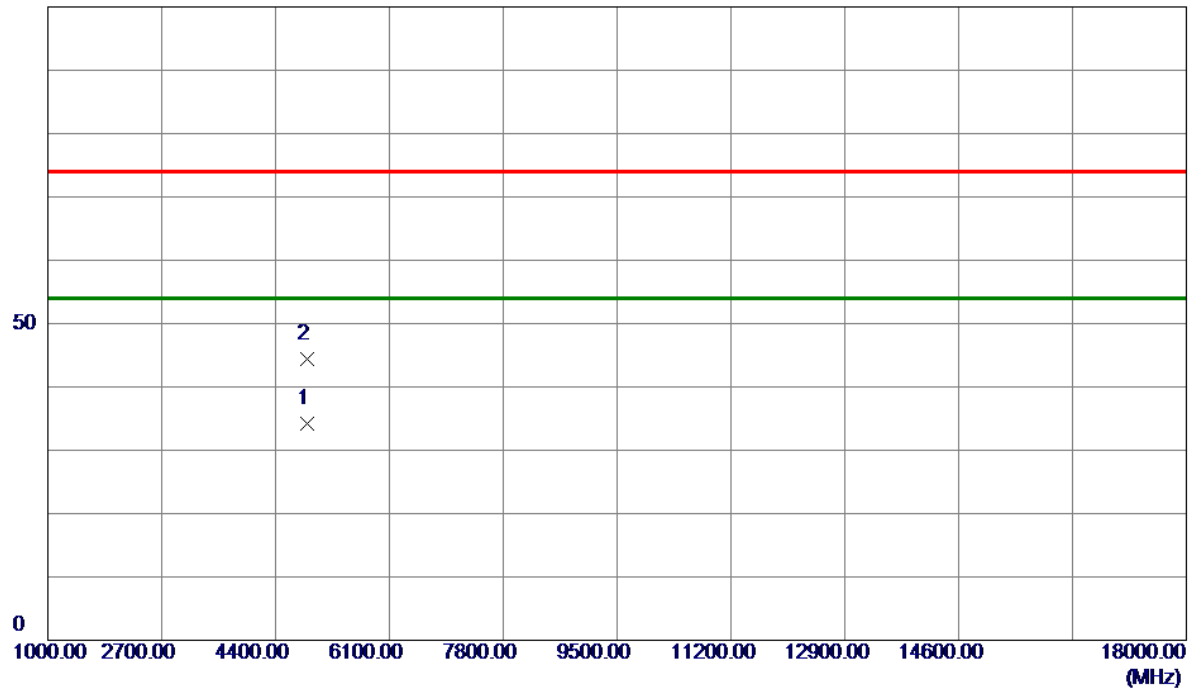
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.47	7.70	63.17	74.00	-10.83	Peak	
2	2390.0000	44.09	7.70	51.79	54.00	-2.21	AVG	
3 *	2425.5000	93.57	7.74	101.31	54.00	47.31	AVG	No Limit
4	2432.6000	102.49	7.75	110.24	74.00	36.24	Peak	No Limit

## REMARKS:

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

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



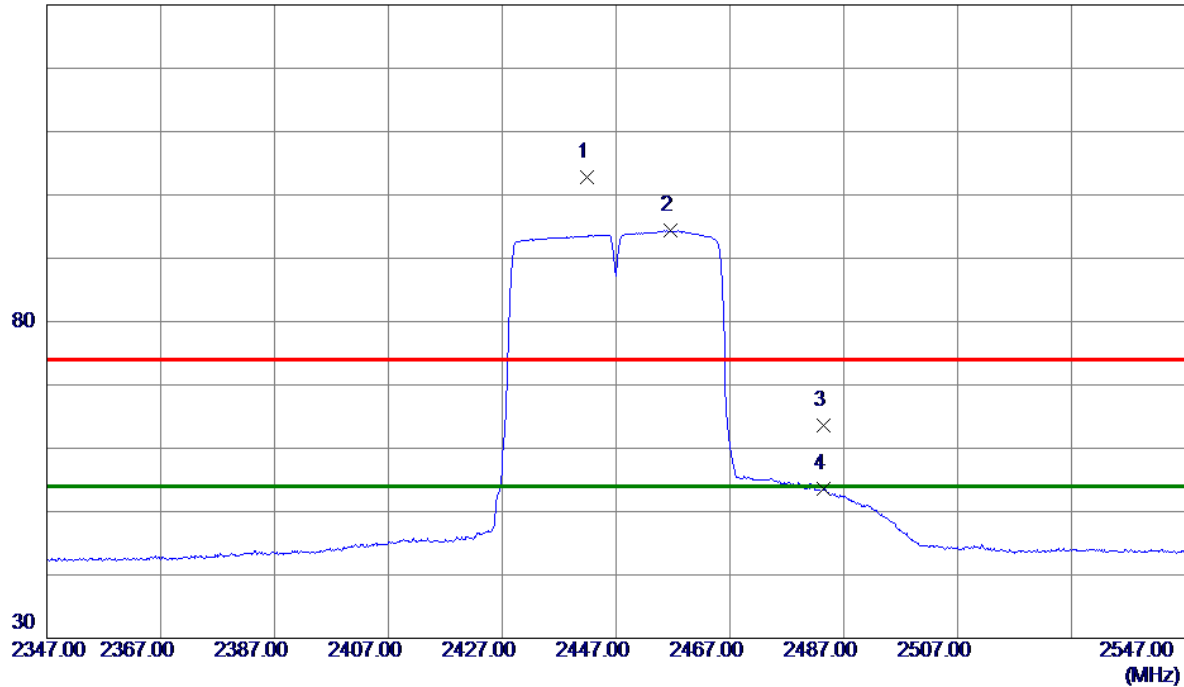
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9000	31.31	2.96	34.27	54.00	-19.73	AVG	
2	4874.0000	41.43	2.96	44.39	74.00	-29.61	Peak	

## 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
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130 dBuV/m



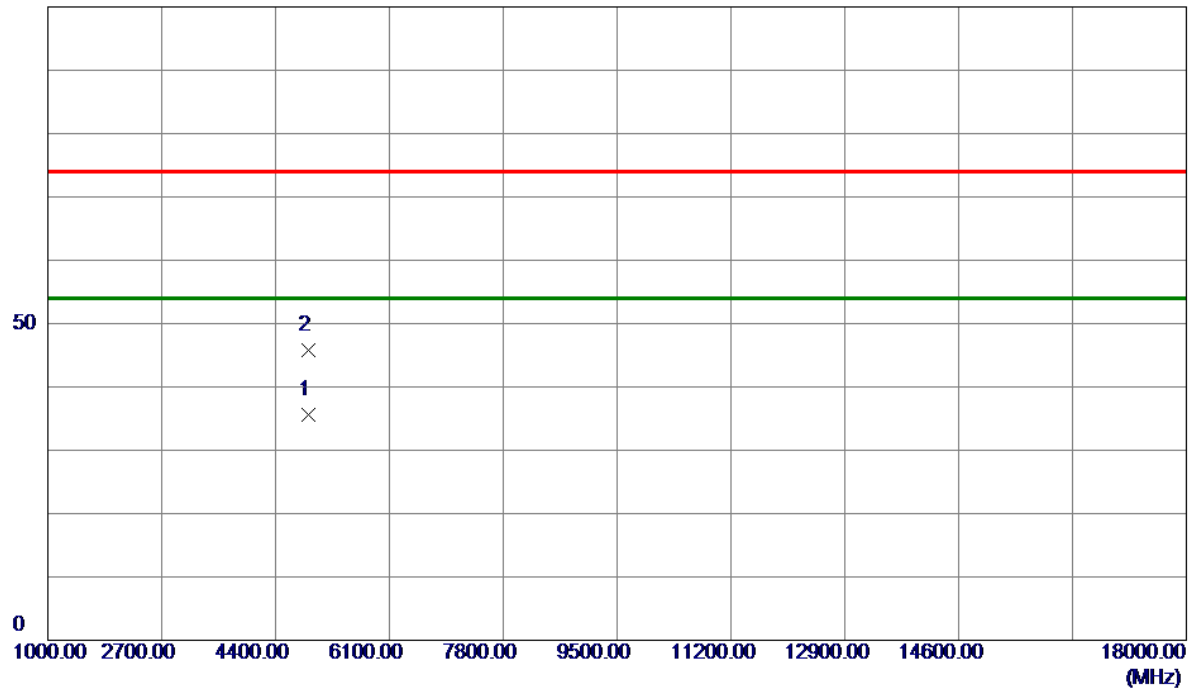
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.9000	95.03	7.76	102.79	74.00	28.79	Peak	No Limit
2 *	2456.6000	86.60	7.78	94.38	54.00	40.38	AVG	No Limit
3	2483.5000	55.80	7.81	63.61	74.00	-10.39	Peak	
4	2483.5000	45.73	7.81	53.54	54.00	-0.46	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	Vertical
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100 dBuV/m



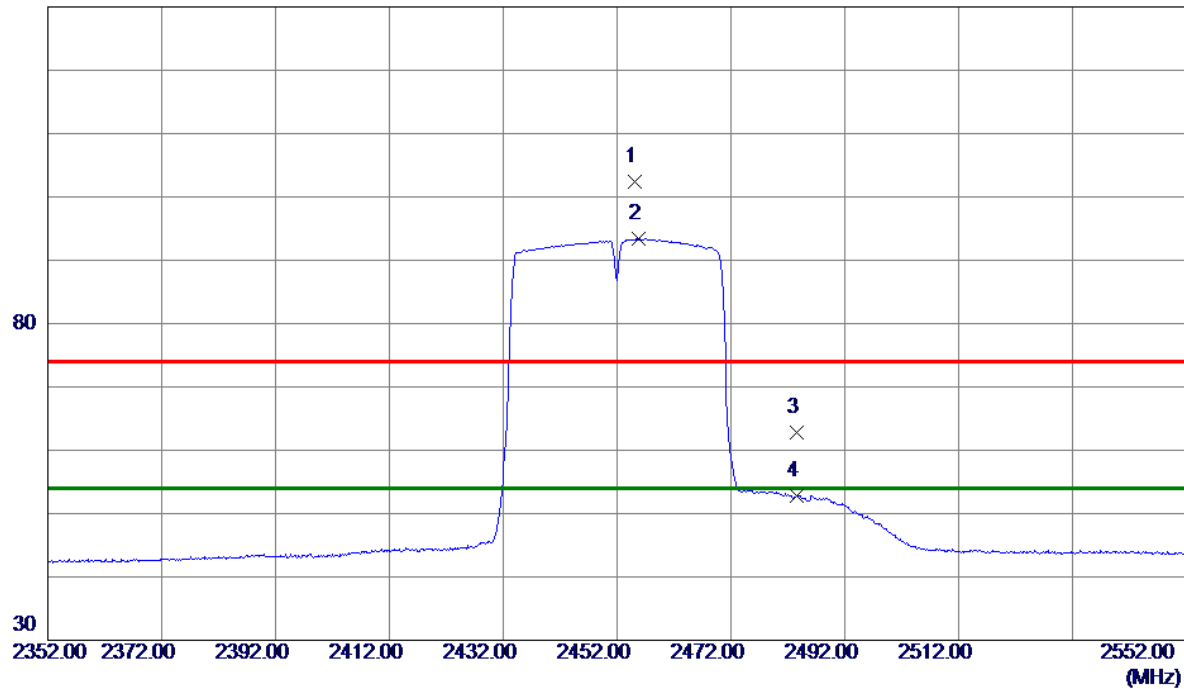
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4893.9000	32.55	3.00	35.55	54.00	-18.45	AVG	
2	4894.3000	42.85	3.00	45.85	74.00	-28.15	Peak	

## 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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130 dBuV/m



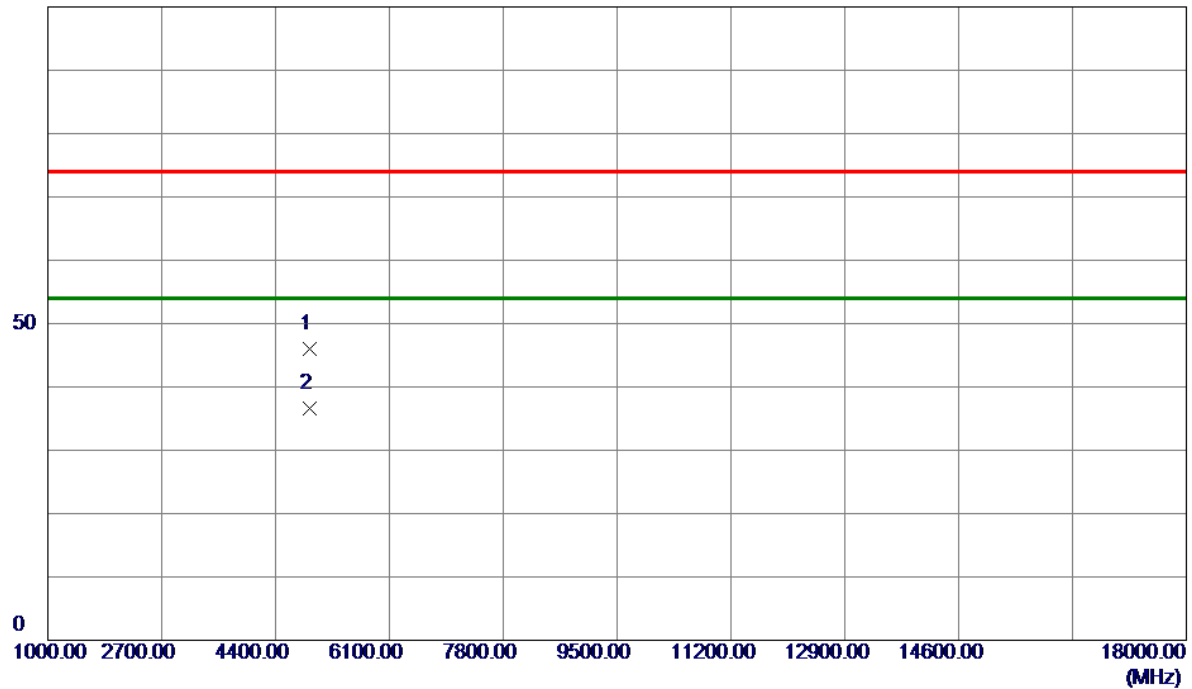
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.1000	94.68	7.78	102.46	74.00	28.46	Peak	No Limit
2 *	2455.8000	85.57	7.78	93.35	54.00	39.35	AVG	No Limit
3	2483.5000	55.04	7.81	62.85	74.00	-11.15	Peak	
4	2483.5000	44.96	7.81	52.77	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	Vertical
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100 dBuV/m



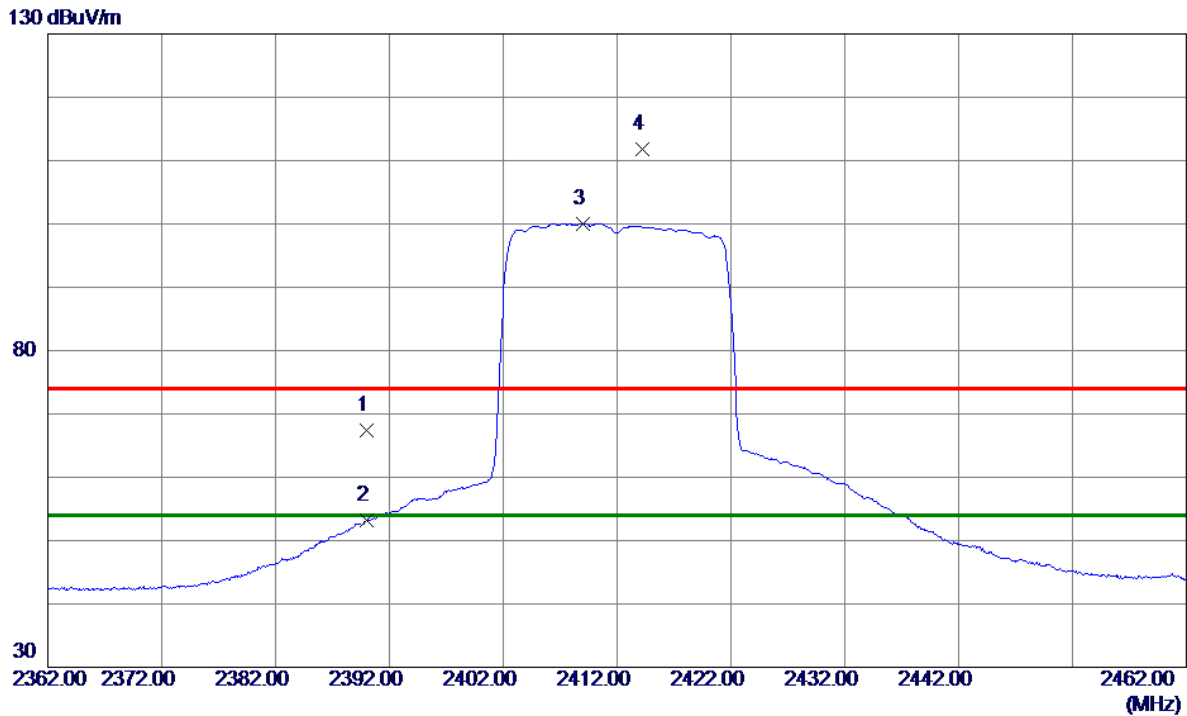
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.8000	43.05	3.03	46.08	74.00	-27.92	Peak	
2 *	4905.8000	33.52	3.03	36.55	54.00	-17.45	AVG	

## REMARKS:

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



Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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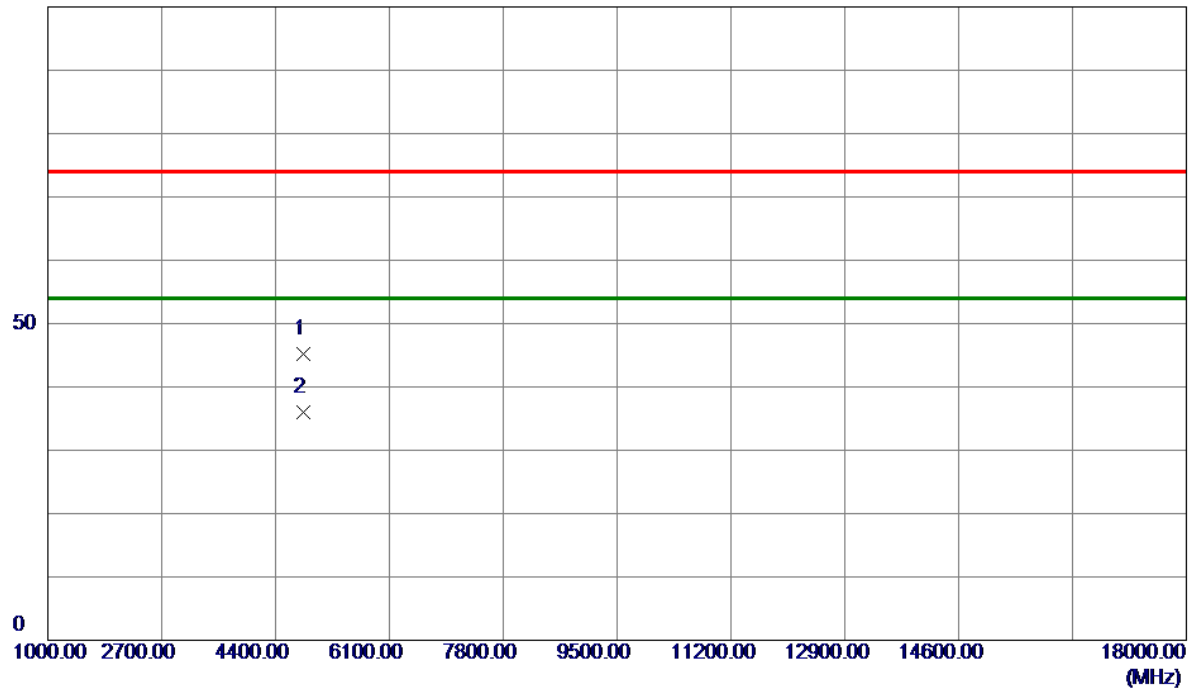
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.76	7.70	67.46	74.00	-6.54	Peak	
2	2390.0000	45.49	7.70	53.19	54.00	-0.81	AVG	
3 *	2409.0000	92.32	7.72	100.04	54.00	46.04	AVG	No Limit
4	2414.2500	104.10	7.73	111.83	74.00	37.83	Peak	No Limit

## REMARKS:

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

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



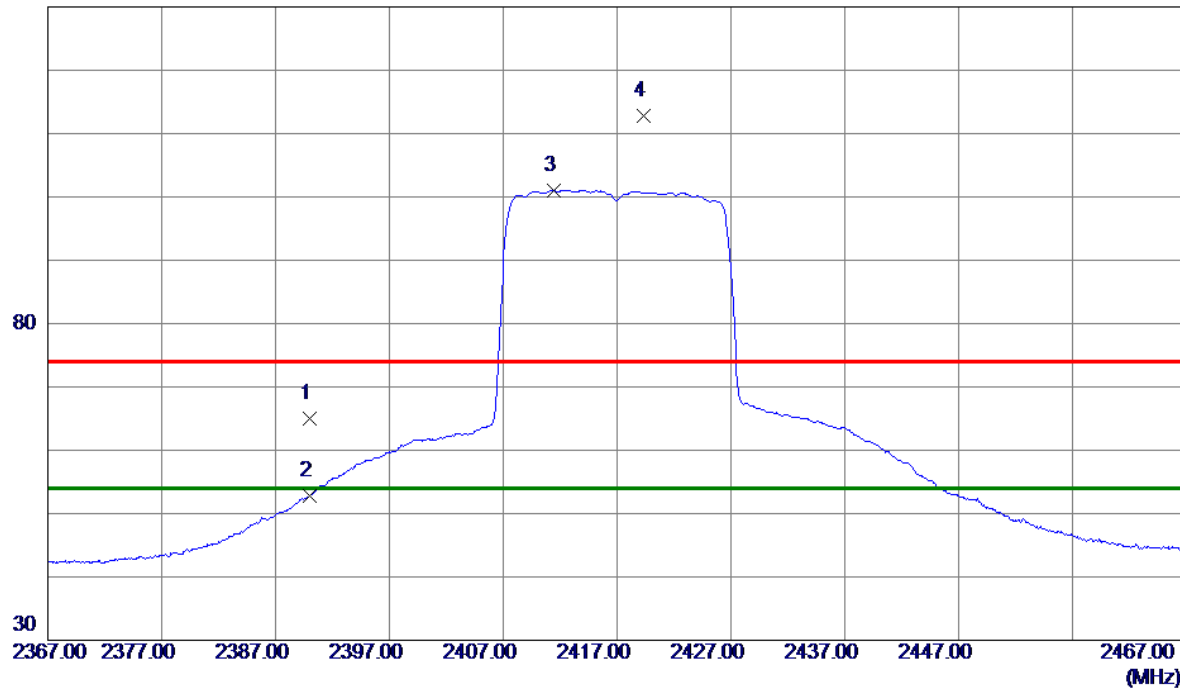
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.1000	42.41	2.84	45.25	74.00	-28.75	Peak	
2 *	4824.2000	33.20	2.84	36.04	54.00	-17.96	AVG	

## 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
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130 dBuV/m



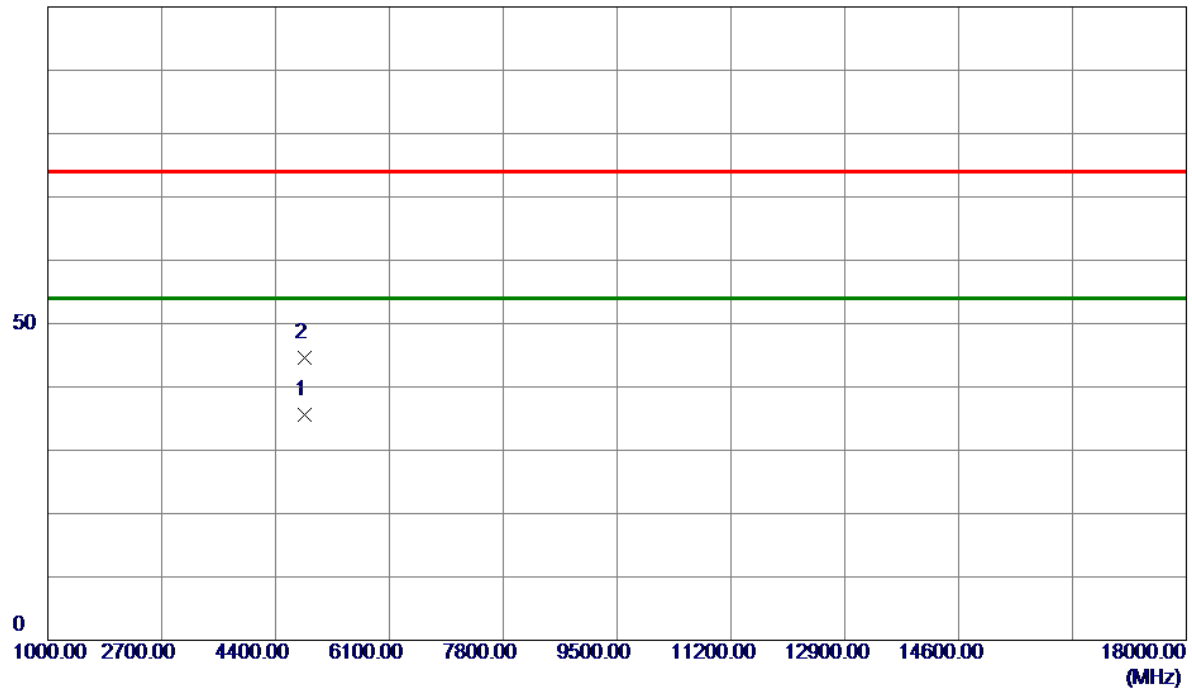
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.30	7.70	65.00	74.00	-9.00	Peak	
2	2390.0000	45.05	7.70	52.75	54.00	-1.25	AVG	
3 *	2411.4500	93.31	7.72	101.03	54.00	47.03	AVG	No Limit
4	2419.3000	105.13	7.73	112.86	74.00	38.86	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	Vertical
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100 dBuV/m



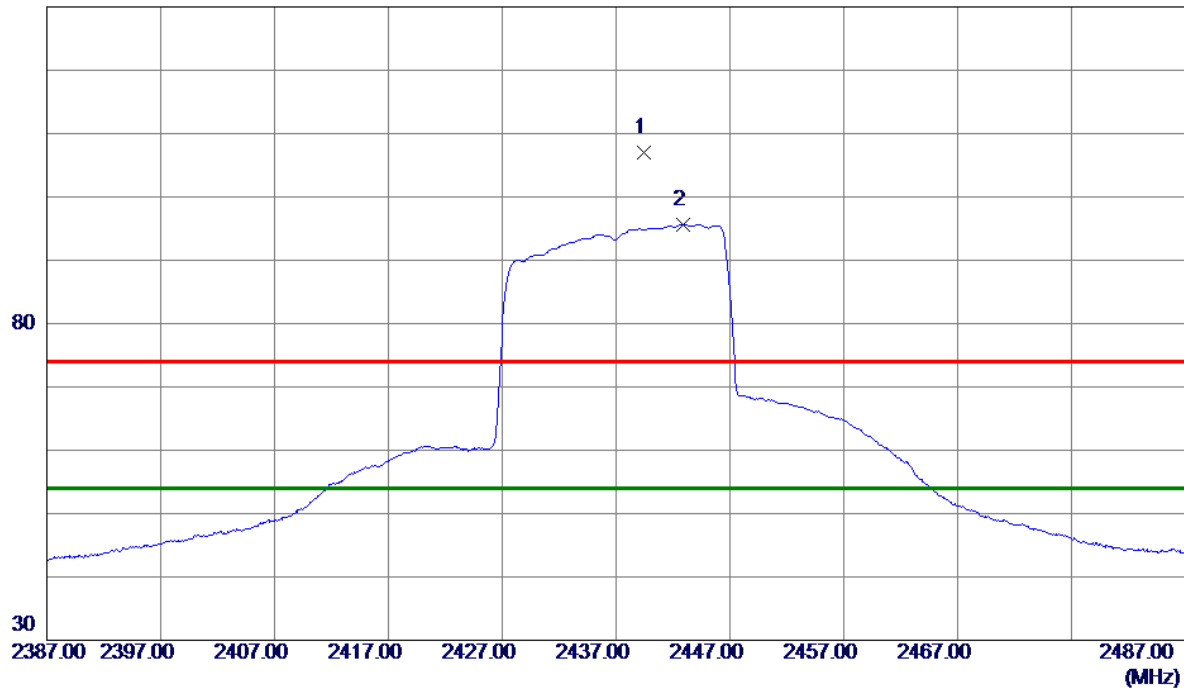
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4833.5000	32.81	2.86	35.67	54.00	-18.33	AVG	
2	4834.1000	41.68	2.86	44.54	74.00	-29.46	Peak	

## 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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130 dBuV/m



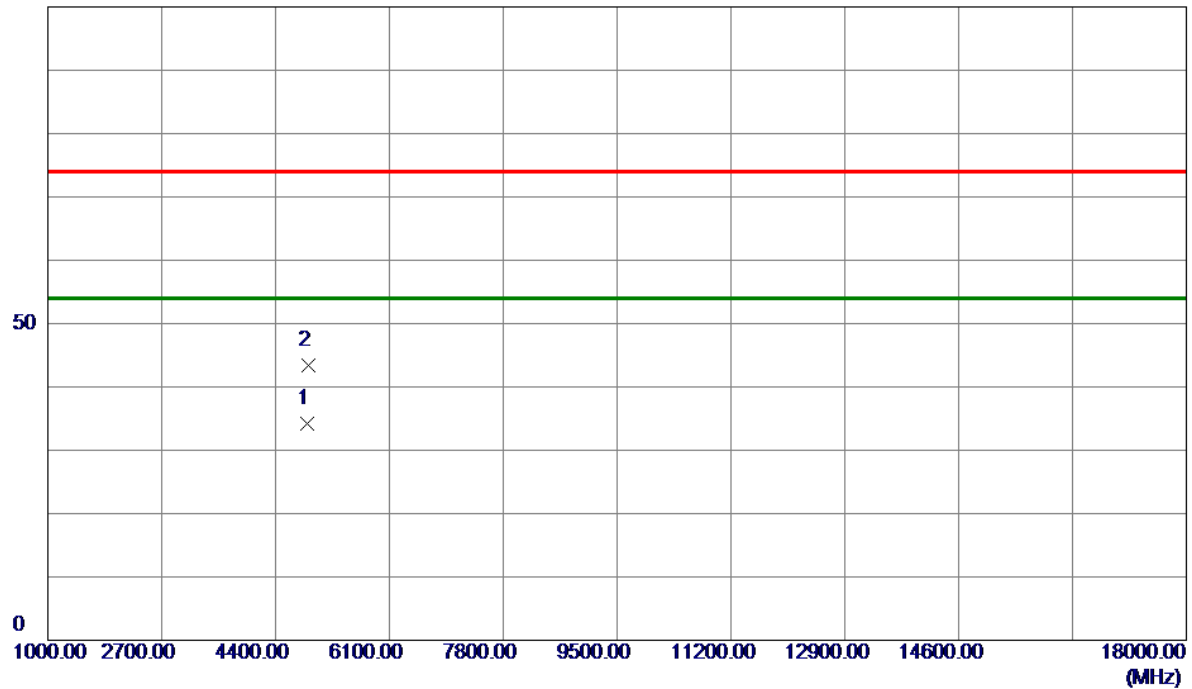
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.4000	99.15	7.76	106.91	74.00	32.91	Peak	No Limit
2 *	2442.9000	87.85	7.76	95.61	54.00	41.61	AVG	No Limit

## REMARKS:

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

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



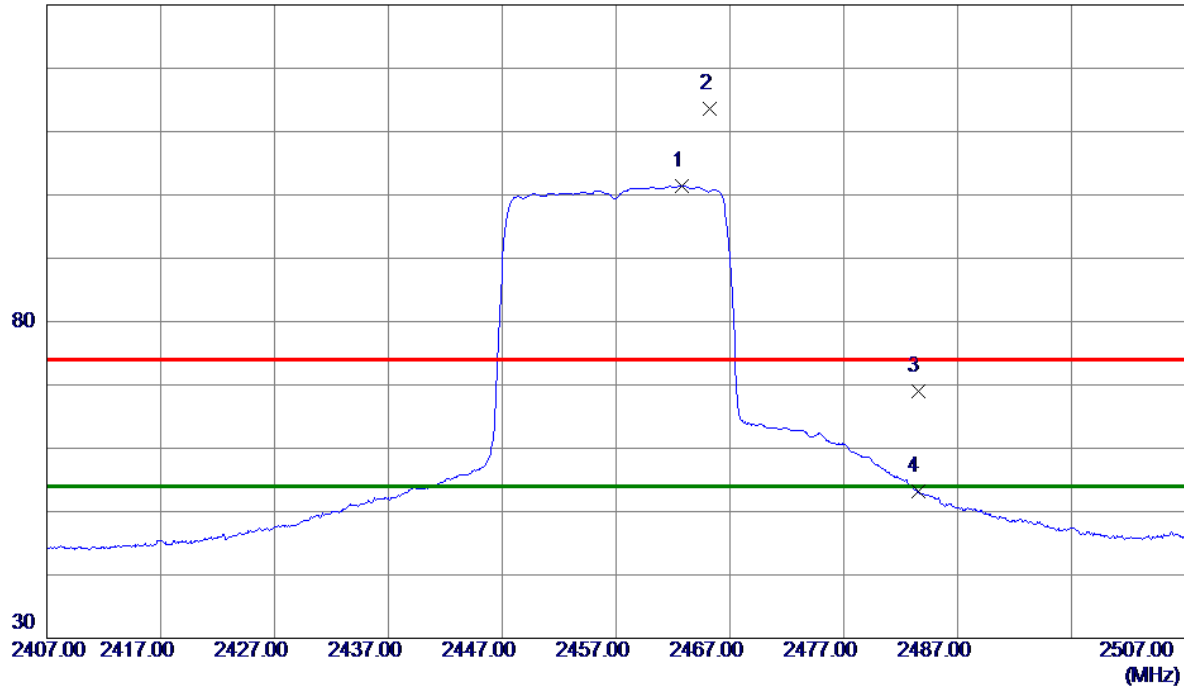
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.3000	31.25	2.96	34.21	54.00	-19.79	AVG	
2	4884.8000	40.40	2.98	43.38	74.00	-30.62	Peak	

## 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
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130 dBuV/m



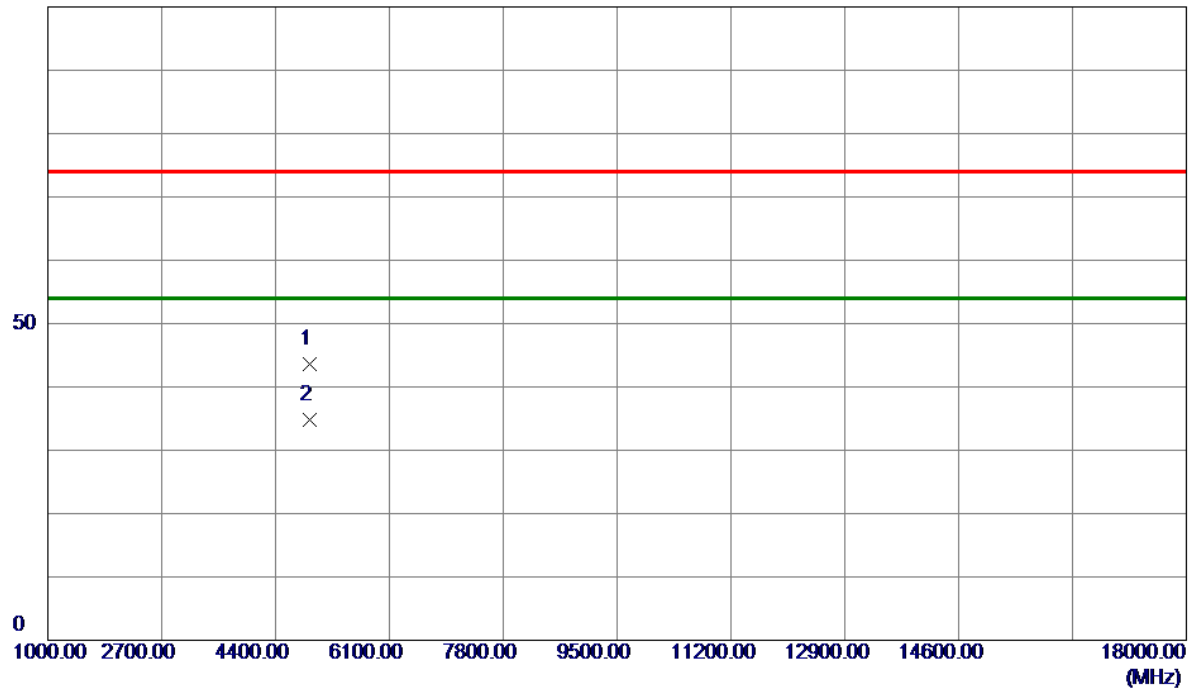
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.8000	93.61	7.79	101.40	54.00	47.40	AVG	No Limit
2	2465.2000	105.85	7.79	113.64	74.00	39.64	Peak	No Limit
3	2483.5000	61.17	7.81	68.98	74.00	-5.02	Peak	
4	2483.5000	45.30	7.81	53.11	54.00	-0.89	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	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4910.2000	40.61	3.04	43.65	74.00	-30.35	Peak	
2 *	4914.1000	31.75	3.05	34.80	54.00	-19.20	AVG	

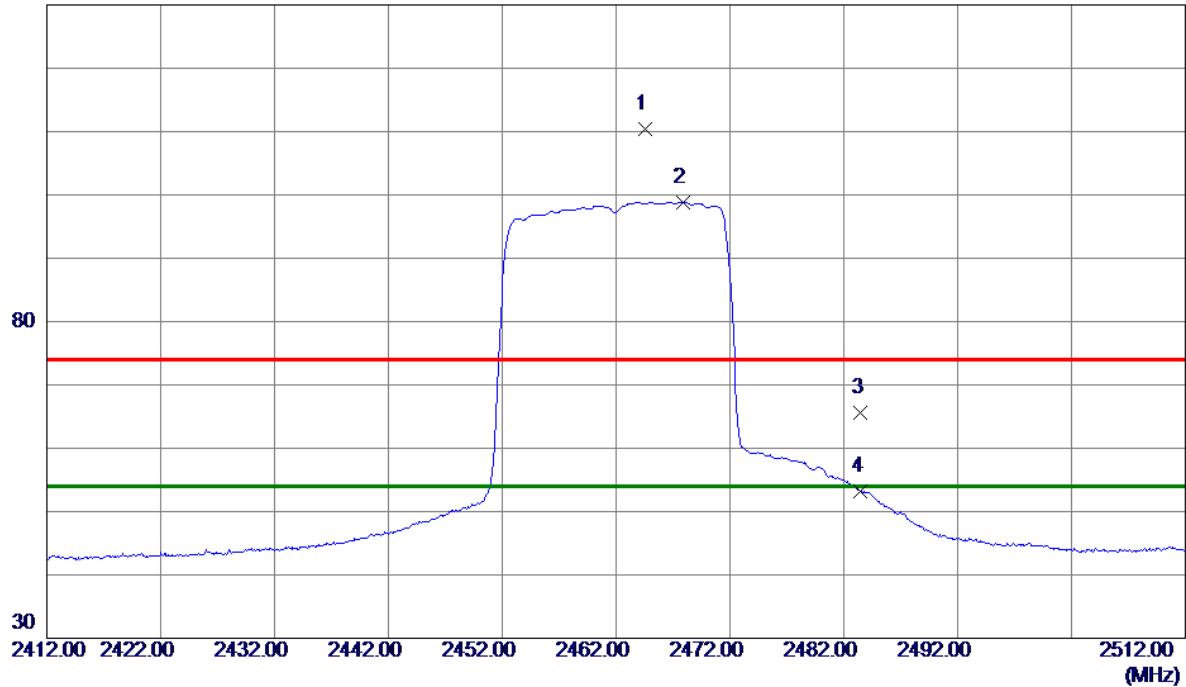
## REMARKS:

- (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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130 dBuV/m



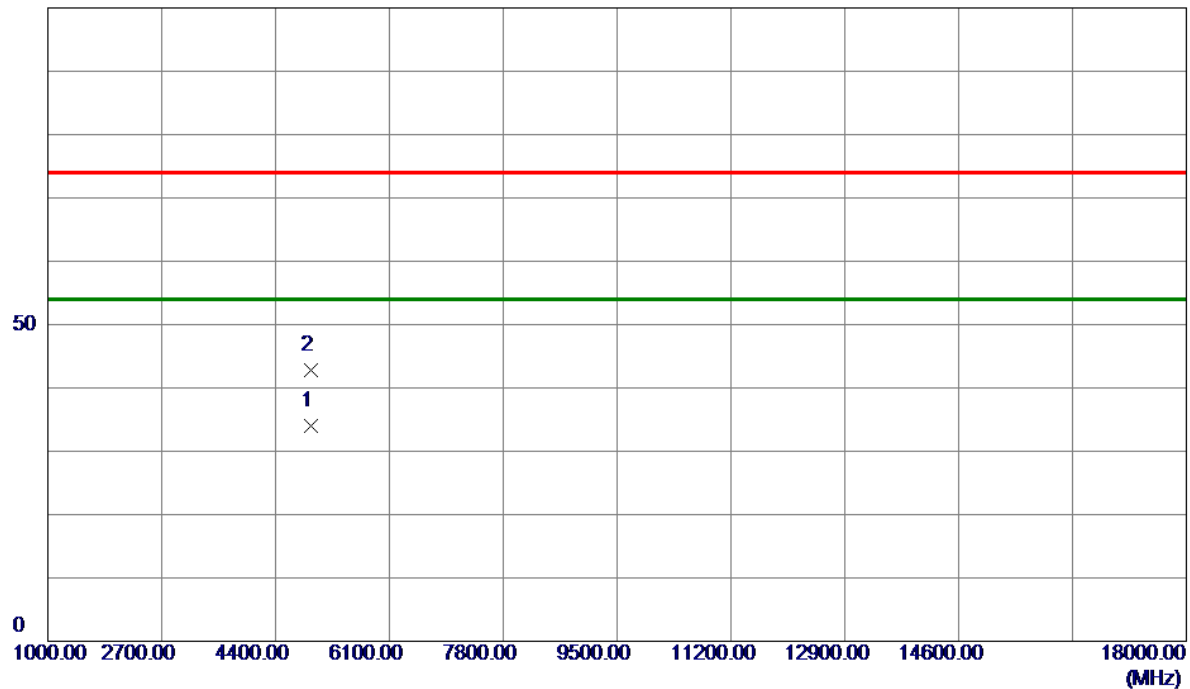
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.6000	102.57	7.79	110.36	74.00	36.36	Peak	No Limit
2 *	2467.9000	91.07	7.79	98.86	54.00	44.86	AVG	No Limit
3	2483.5000	57.84	7.81	65.65	74.00	-8.35	Peak	
4	2483.5000	45.30	7.81	53.11	54.00	-0.89	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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100 dBuV/m



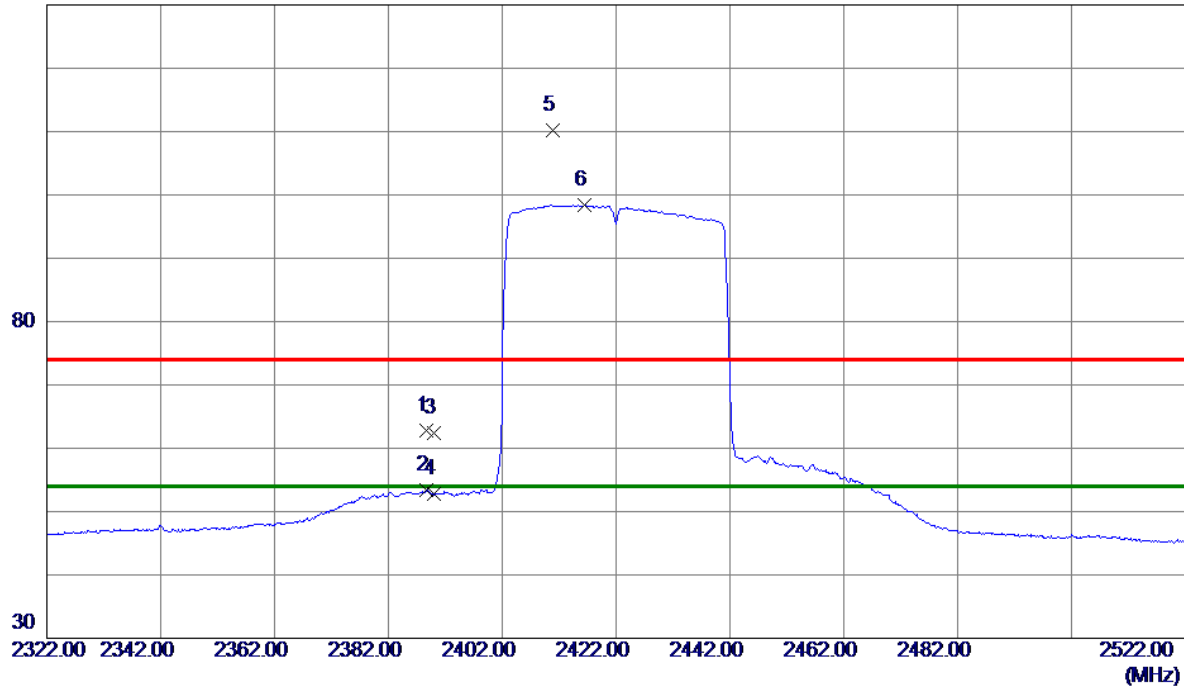
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.8000	30.99	3.07	34.06	54.00	-19.94	AVG	
2	4927.1000	39.80	3.08	42.88	74.00	-31.12	Peak	

## REMARKS:

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

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



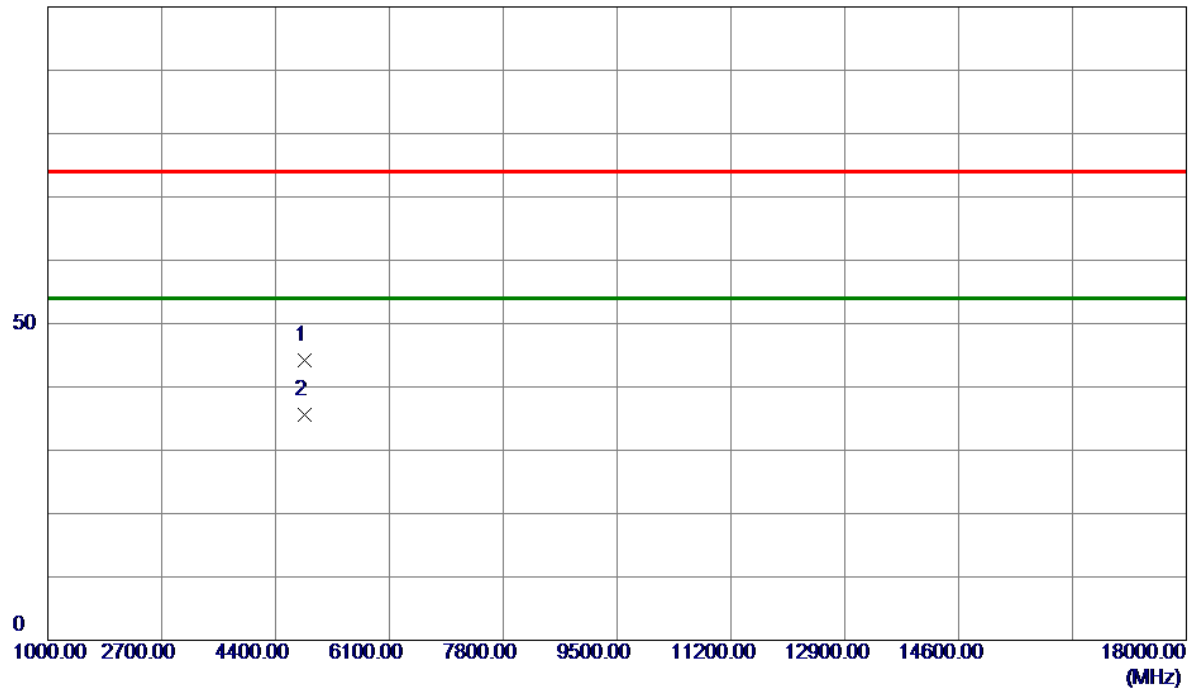
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.7000	55.12	7.70	62.82	74.00	-11.18	Peak	
2	2388.7000	45.68	7.70	53.38	54.00	-0.62	AVG	
3	2390.0000	54.73	7.70	62.43	74.00	-11.57	Peak	
4	2390.0000	45.01	7.70	52.71	54.00	-1.29	AVG	
5	2410.9000	102.48	7.72	110.20	74.00	36.20	Peak	No Limit
6 *	2416.5000	90.72	7.73	98.45	54.00	44.45	AVG	No Limit

## REMARKS:

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

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

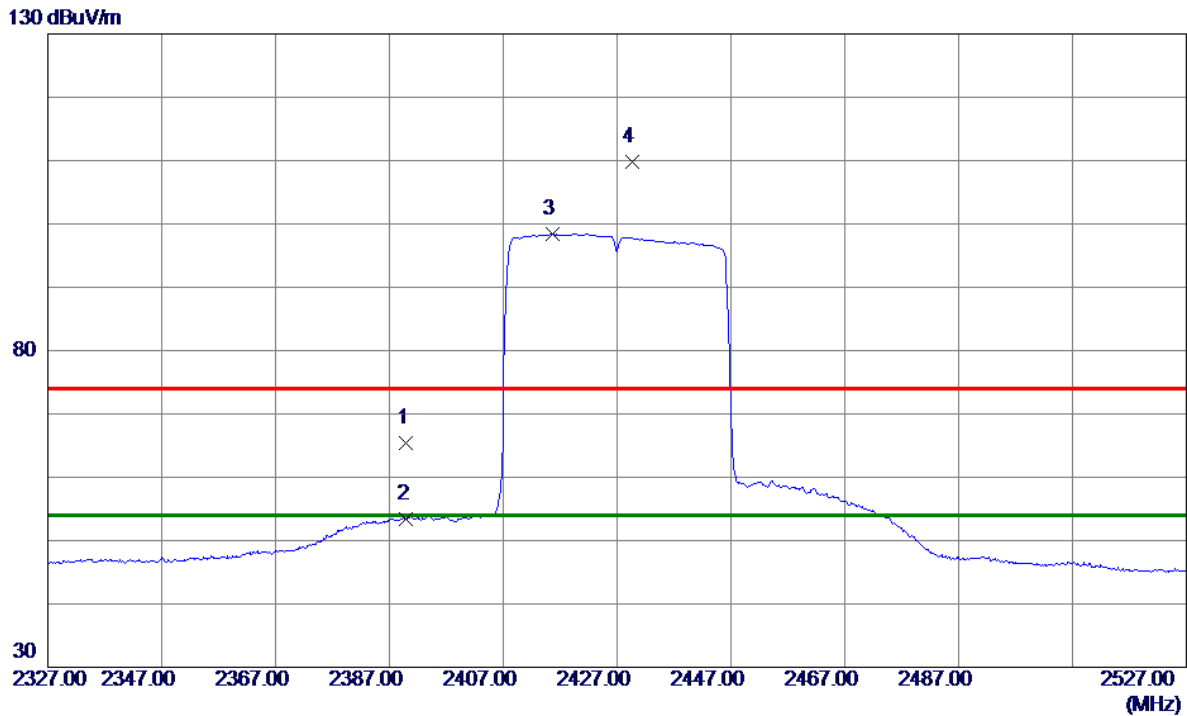


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4841.1000	41.25	2.88	44.13	74.00	-29.87	Peak	
2 *	4841.9000	32.63	2.88	35.51	54.00	-18.49	AVG	

## 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
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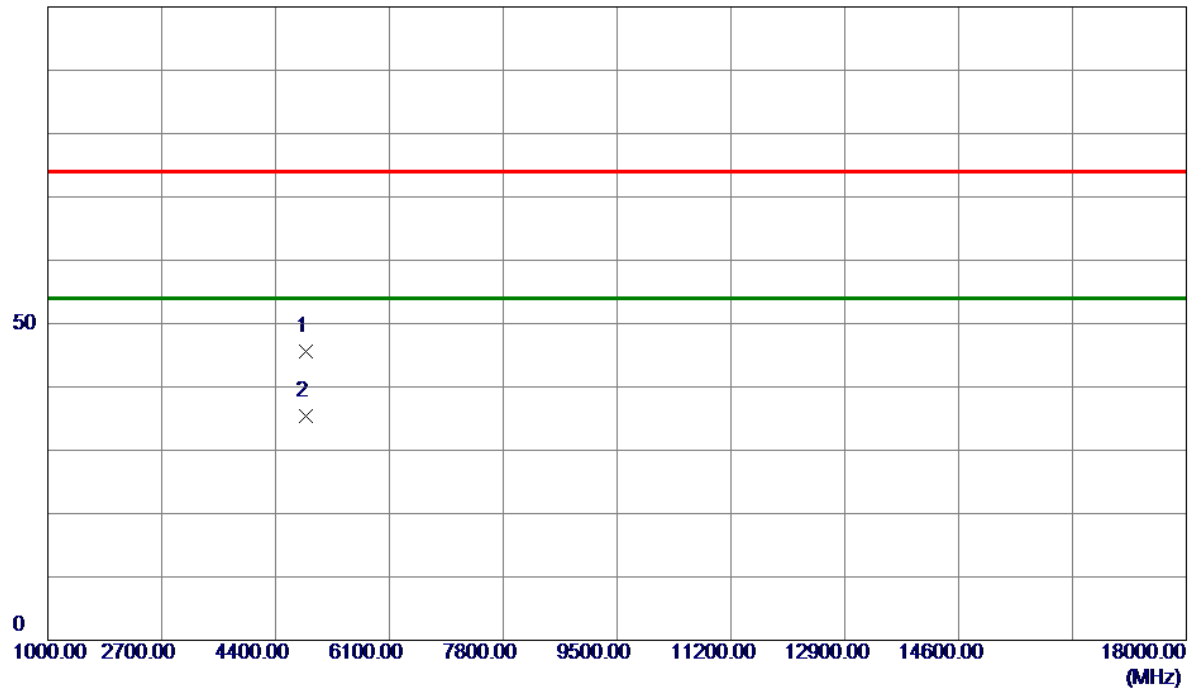
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.63	7.70	65.33	74.00	-8.67	Peak	
2	2390.0000	45.76	7.70	53.46	54.00	-0.54	AVG	
3 *	2415.6000	90.66	7.73	98.39	54.00	44.39	AVG	No Limit
4	2429.6000	102.09	7.75	109.84	74.00	35.84	Peak	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	Vertical
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100 dBuV/m



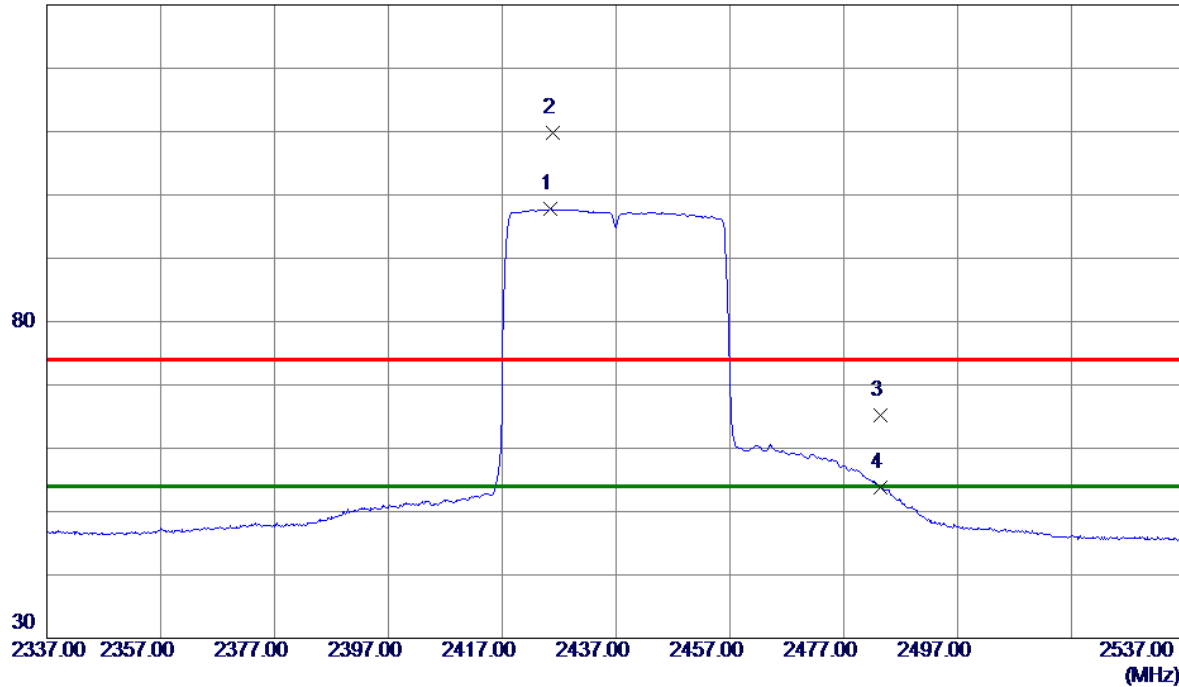
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4847.9000	42.66	2.90	45.56	74.00	-28.44	Peak	
2 *	4852.7000	32.42	2.91	35.33	54.00	-18.67	AVG	

## 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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130 dBuV/m



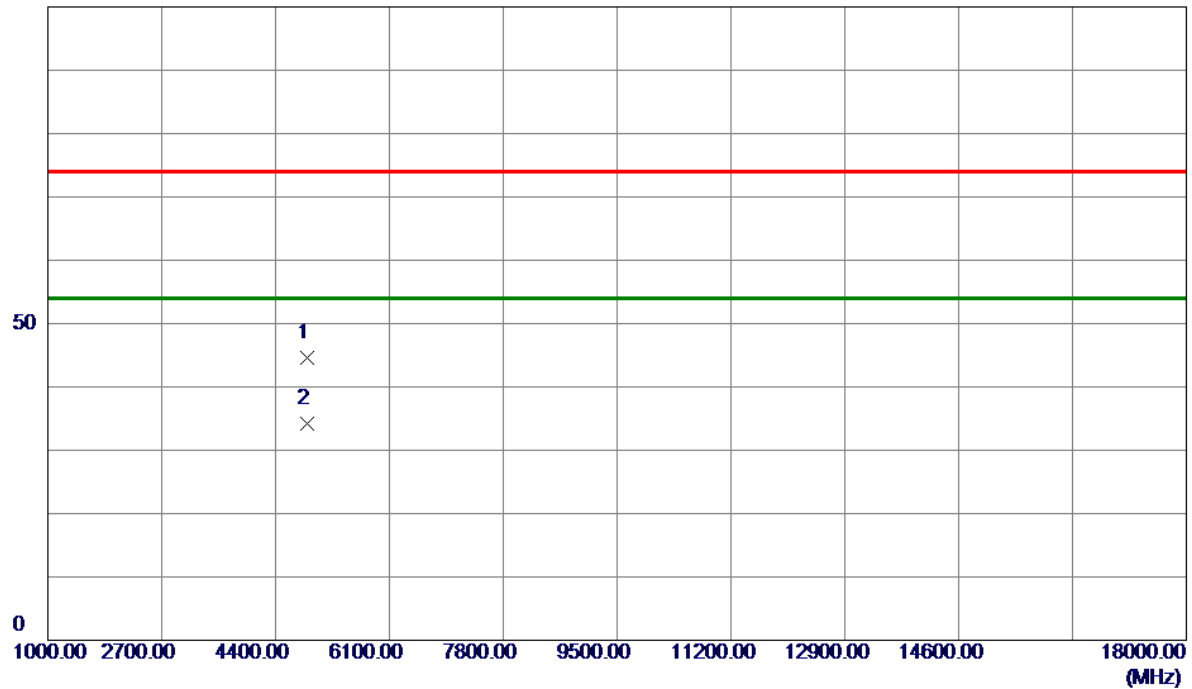
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2425.5000	90.00	7.74	97.74	54.00	43.74	AVG	No Limit
2	2425.9000	102.05	7.74	109.79	74.00	35.79	Peak	No Limit
3	2483.5000	57.47	7.81	65.28	74.00	-8.72	Peak	
4	2483.5000	46.01	7.81	53.82	54.00	-0.18	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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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4867.8000	41.73	2.94	44.67	74.00	-29.33	Peak	
2 *	4878.9000	31.31	2.97	34.28	54.00	-19.72	AVG	

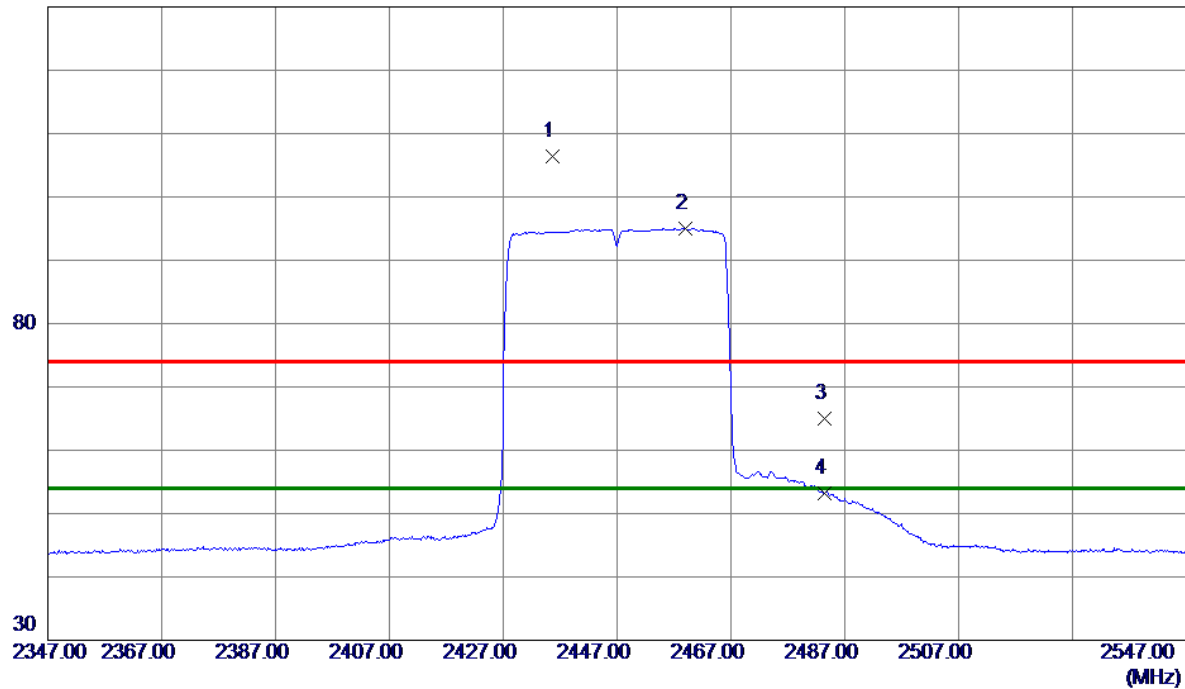
## REMARKS:

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



Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical
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130 dBuV/m



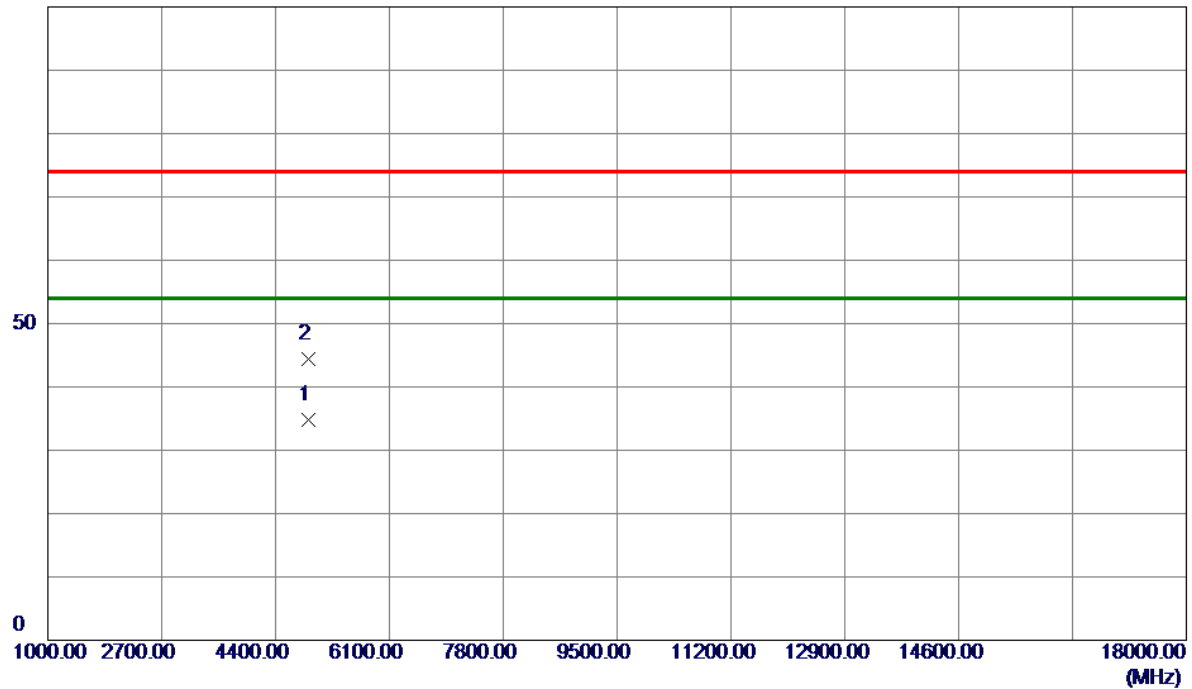
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.7000	98.66	7.75	106.41	74.00	32.41	Peak	No Limit
2 *	2458.9000	87.23	7.78	95.01	54.00	41.01	AVG	No Limit
3	2483.5000	57.26	7.81	65.07	74.00	-8.93	Peak	
4	2483.5000	45.45	7.81	53.26	54.00	-0.74	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
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100 dBuV/m



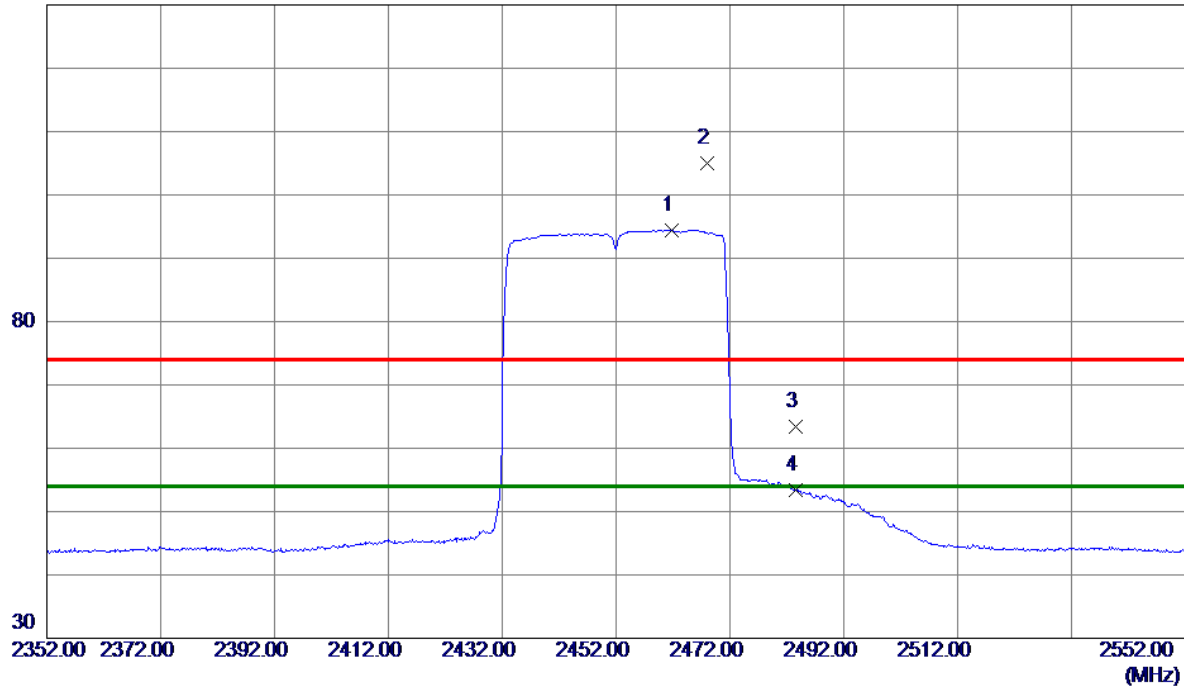
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4892.6000	31.88	3.00	34.88	54.00	-19.12	AVG	
2	4896.0000	41.40	3.01	44.41	74.00	-29.59	Peak	

## 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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130 dBuV/m



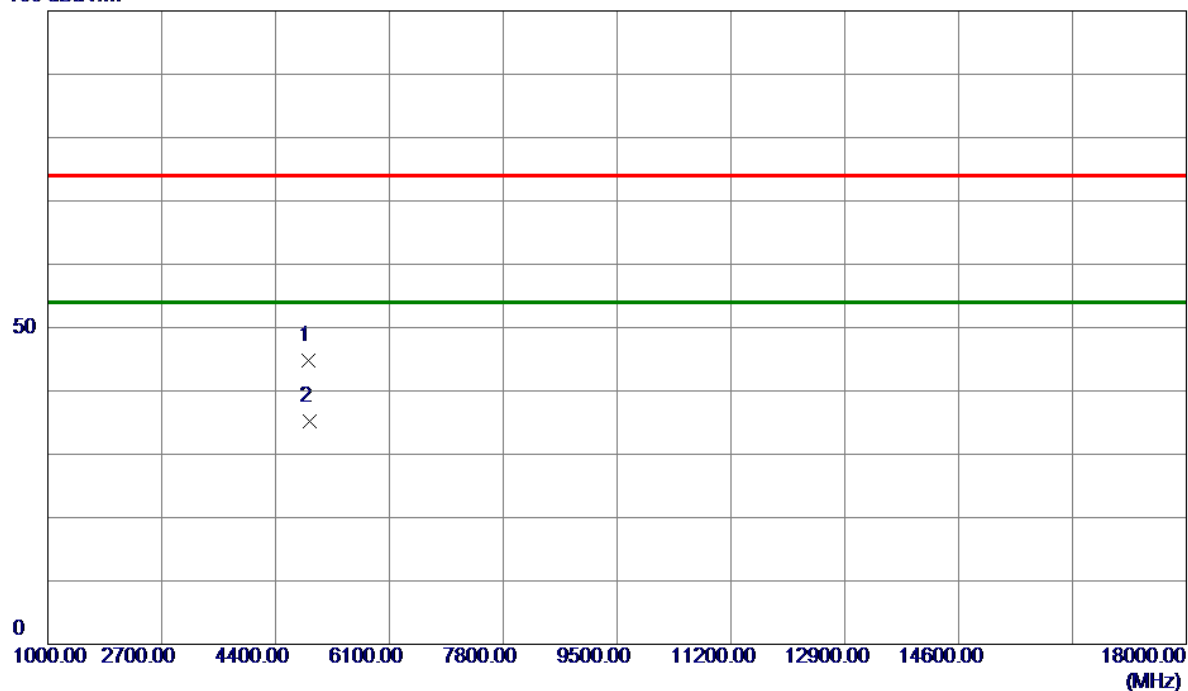
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.8000	86.63	7.78	94.41	54.00	40.41	AVG	No Limit
2	2468.1000	97.23	7.79	105.02	74.00	31.02	Peak	No Limit
3	2483.5000	55.62	7.81	63.43	74.00	-10.57	Peak	
4	2483.5000	45.60	7.81	53.41	54.00	-0.59	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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100 dBuV/m

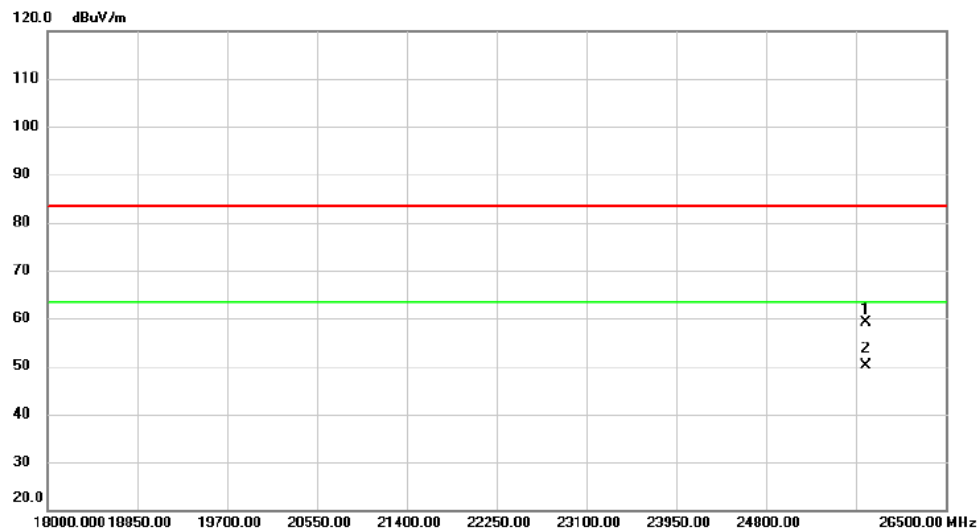


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4897.1000	41.87	3.01	44.88	74.00	-29.12	Peak	
2 *	4901.6000	32.14	3.02	35.16	54.00	-18.84	AVG	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2422 MHz	Polarization	Vertical
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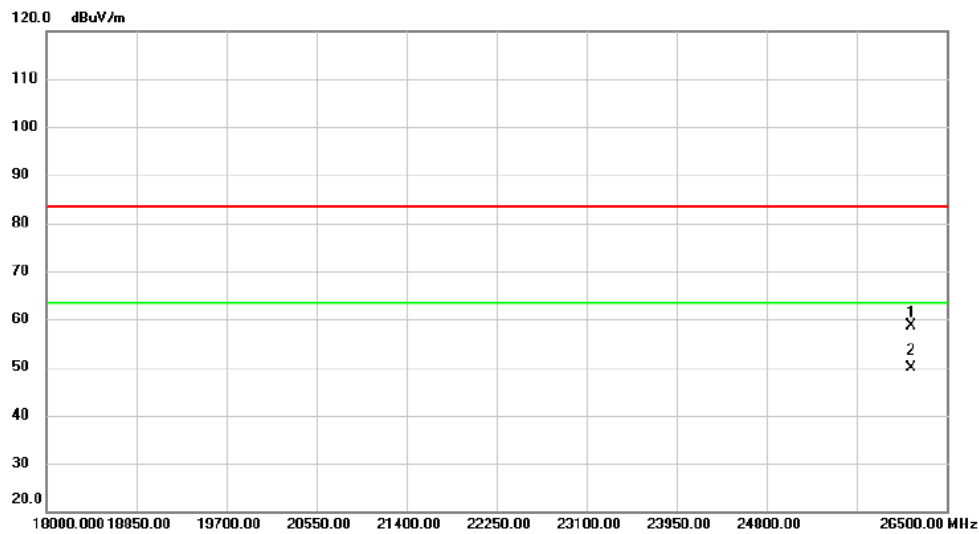


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	25747.75	46.84	12.29	59.13	83.50	-24.37	peak	
2 *	25747.75	37.78	12.29	50.07	63.50	-13.43	AVG	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2422 MHz	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		26164.25	46.46	12.28	58.74	83.50	-24.76	peak	
2	*	26164.25	37.50	12.28	49.78	63.50	-13.72	AVG	

## REMARKS:

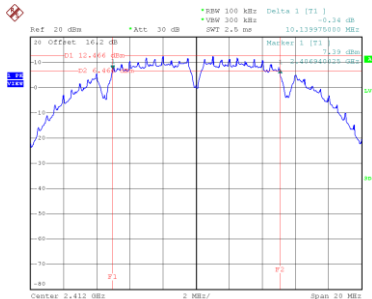
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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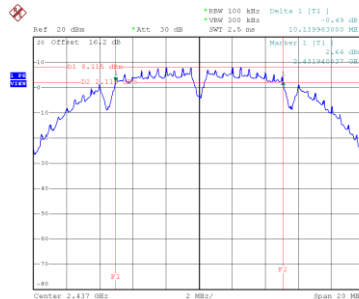
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.140	14.960	0.5	Complies
06	2437	10.140	14.960	0.5	Complies
11	2462	10.100	14.960	0.5	Complies

CH01



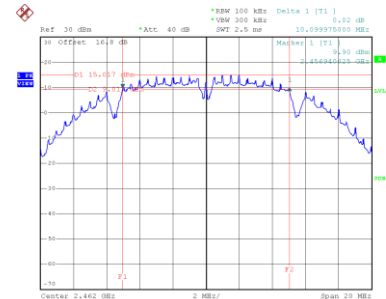
Date: 18.SEP.2024 11:04:16

CH06  
6 dB Bandwidth



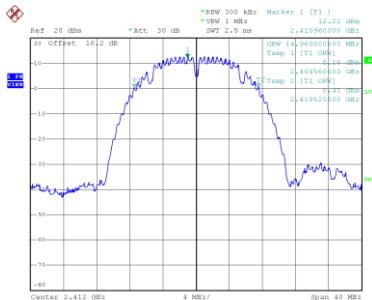
Date: 18.SEP.2024 10:58:45

CH11

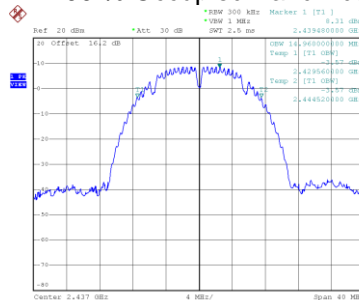


Date: 20.SEP.2024 10:23:24

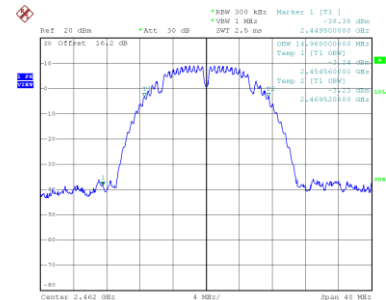
99 % Occupied Bandwidth



Date: 18.SEP.2024 11:04:24



Date: 18.SEP.2024 10:58:53



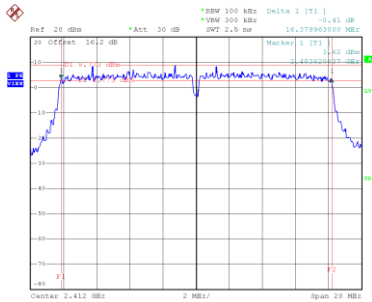
Date: 18.SEP.2024 11:05:41



Test Mode	TX G Mode
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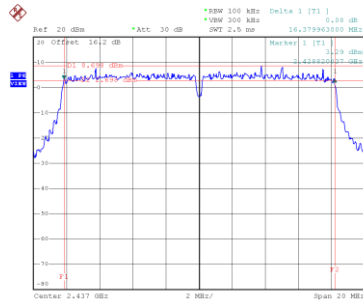
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.380	16.560	0.5	Complies
06	2437	16.380	16.560	0.5	Complies
11	2462	16.380	16.560	0.5	Complies

# CH01



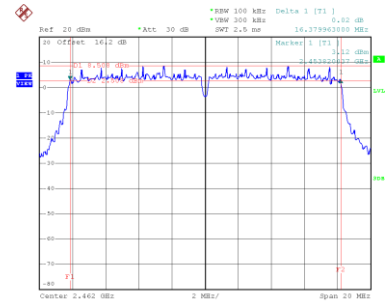
Date: 18.SEP.2024 11:13:34

**CH06**  
6 dB Bandwidth



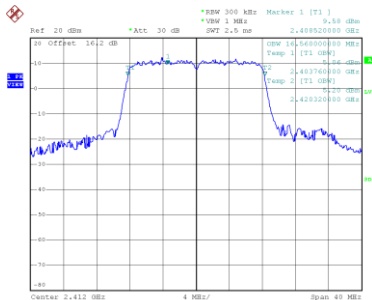
Date: 18.SEP.2024 11:15:20

CH11

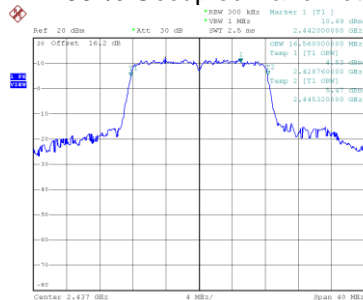


Date: 18.SEP.2024 11:34:31

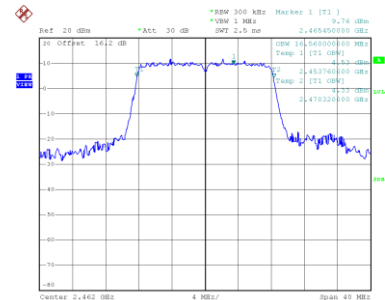
99 % Occupied Bandwidth



Date: 18.SEP.2024 11:13:41



Date: 18.SEP.2024 11:15:27

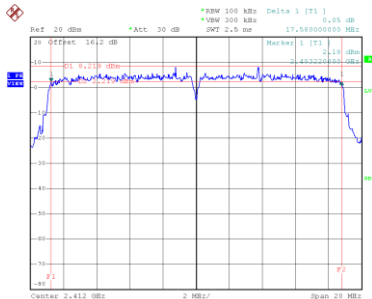


Date: 18.SEP.2024 11:36:23

Test Mode	TX N(HT20) Mode
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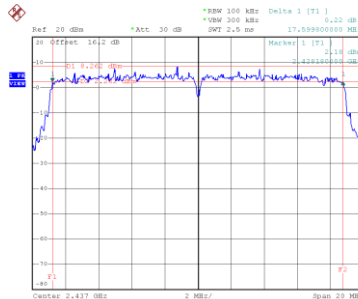
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.580	17.680	0.5	Complies
06	2437	17.600	17.680	0.5	Complies
11	2462	17.620	17.680	0.5	Complies

CH01



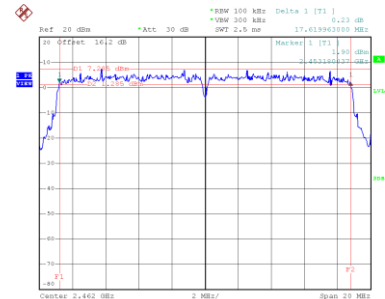
Date: 18.SEP.2024 11:40:28

CH06  
6 dB Bandwidth



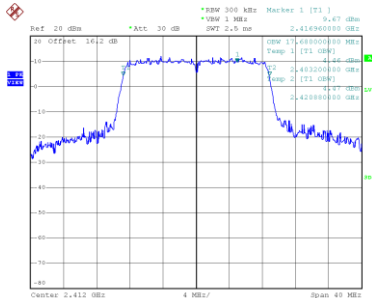
Date: 18.SEP.2024 11:47:43

CH11

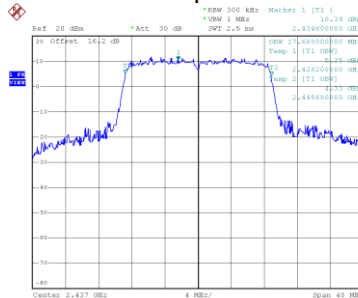


Date: 18.SEP.2024 11:50:39

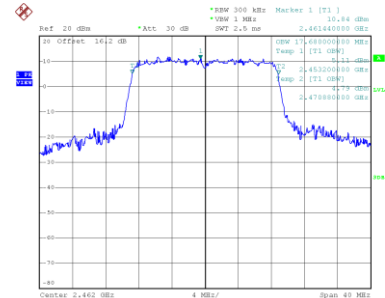
99 % Occupied Bandwidth



Date: 18.SEP.2024 11:40:36



Date: 18.SEP.2024 11:47:50



Date: 18.SEP.2024 11:50:47