

# FCC Radio Test Report

## FCC ID: 2AFZZRB02

This report concerns: Original Grant

**Project No.** : 2108C087  
**Equipment** : Xiaomi Router AC1200  
**Brand Name** : Xiaomi  
**Test Model** : RB02  
**Series Model** : N/A  
**Applicant** : Xiaomi Communications Co.,Ltd  
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**Address** : No.2 Huitai Road,Huinan High-tech Industrial Park, Huiao Avenue, Huizhou City, Guangdong Province, China. 516000  
**Date of Receipt** : Aug. 06, 2021  
**Date of Test** : Aug. 11, 2021~ Oct. 08, 2021  
**Issued Date** : Oct. 09, 2021  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.:  
DG2021080560 for radiated, DG2021080561 for conducted  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
ANSI C63.10-2013

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

Maker Qi

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TESTING CERT #5123.03

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**Limitation**

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

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

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 27, 2021
R01	Revised report to address TCB's comments.	Oct. 09, 2021

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

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

### 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China  
 BTL's Test Firm Registration Number for FCC: 476765  
 BTL's Designation Number for FCC: CN1241

### 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))  
 The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.64

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB02	CISPR	9 KHz~30 MHz	-	2.16
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	2.90
		200 MHz~1,000 MHz	V	3.76
		200 MHz~1,000 MHz	H	3.82
		1GHz ~ 6GHz	-	4.56
		6GHz ~ 18GHz	-	4.14
		18 ~ 26.5 GHz	-	3.48

C. Conducted test:

Parameter	U
Output Power	±0.95 dB
Occupied Channel Bandwidth	±3.8 %
Power Spectral Density	±0.86 dB
Conducted Spurious Emission	±2.71 dB
Temperature	±0.08 °C
Humidity	±1.5 %
Supply voltages	±0.3 %

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

### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24°C	59%	AC 120V/60Hz	Vera Wei
Radiated Emissions-9kHz to 30 MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-30MHz to 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Bandwidth	23°C	54%	AC 120V/60Hz	Danny Dang
Maximum Output Power	23°C	54%	AC 120V/60Hz	Danny Dang
Conducted Spurious Emissions	23°C	54%	AC 120V/60Hz	Danny Dang
Power Spectral Density	23°C	54%	AC 120V/60Hz	Danny Dang

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Xiaomi Router AC1200
Brand Name	Xiaomi
Test Model	RB02
Series Model	N/A
Model Difference(s)	N/A
Software Version	3.2.4
Hardware Version	MB02
Power Source	DC voltage supplied from AC/DC adapter. Brand / Model: Xiaomi / CYXT18-120100U
Power Rating	I/P: 100-240V ~ 50/60Hz 0.3A    O/P: 12.0V ---1.0A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum peak conducted output power	IEEE 802.11g: 29.91 dBm (0.9795 W)
Maximum conducted output power	IEEE 802.11b: 26.10 dBm (0.4074 W)

Note:

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

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

## 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5.66
2	N/A	N/A	Dipole	N/A	6.03

Note:

- 1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+\dots+10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{5.66/20}+10^{6.03/20})^2/2]$ dBi =8.86.  
So, the output power limit is  $30-(8.86-6) = 27.14$ , the power spectral density limit is  $8-(8.86-6)=5.14$ .
- 2) This EUT supports CDD, and all antenna gains are not equal, so Directional gain =  $G_{ANT}+Array\ Gain$ .  
For power measurements, Array Gain=0dB ( $N_{ANT}\leq 4$ ), so the Directional gain=6.03.  
For power spectral density measurements,  $N_{ANT}=2$ ,  $N_{SS} = 1$ .  
So the Directional gain= $G_{ANT}+Array\ Gain=G_{ANT}+10\log(N_{ANT}/ N_{SS})$ dBi= $6.03+10\log(2/1)$ dBi=9.04.  
Then, the power spectral density limit is  $8-(9.04-6) = 4.96$ .
- 3) The antenna gain is provided by the manufacturer.

## 4. Table for Antenna Configuration:

Operating Mode / TX Mode	Ant. 1	Ant. 2	Ant. 1+2
802.11b	✓	✓	✓
802.11g	✓	✓	✓
802.11n(20 MHz)	✓	✓	✓
802.11n(40 MHz)	✓	✓	✓

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

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 2	TX G Mode Channel 06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 2	TX G Mode Channel 06

<b>Radiated emissions test- Above 1GHz</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

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

**NOTE:**

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX G Mode Channel 06 is found to be the worst case and recorded.

**2.3 PARAMETERS OF TEST SOFTWARE**

Test Software Version	QATool V0.0.2.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	25.00	2A	24.00
IEEE 802.11g	1C	2A	1A
IEEE 802.11n(HT20)	19.00	27.00	19.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	13.00	1C	14.00

## 2.4 DUTY CYCLE

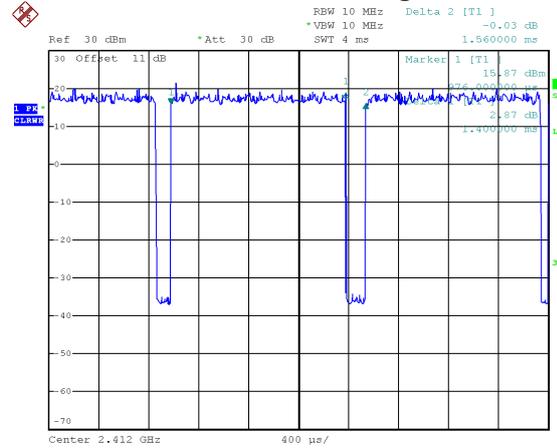
**IEEE 802.11b**



Date: 12.AUG.2021 17:55:23

Duty cycle = 8.435 ms / 8.475 ms = 99.53%  
 Duty Factor = 10 log(1/Duty cycle) = 0.02

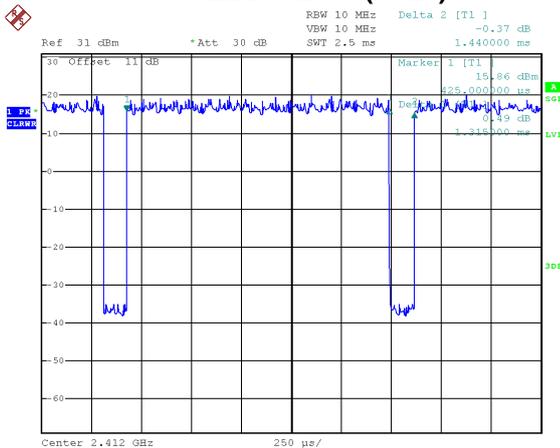
**IEEE 802.11g**



Date: 12.AUG.2021 17:45:02

Duty cycle = 1.400 ms / 1.560 ms = 89.74%  
 Duty Factor = 10 log(1/Duty cycle) = 0.47

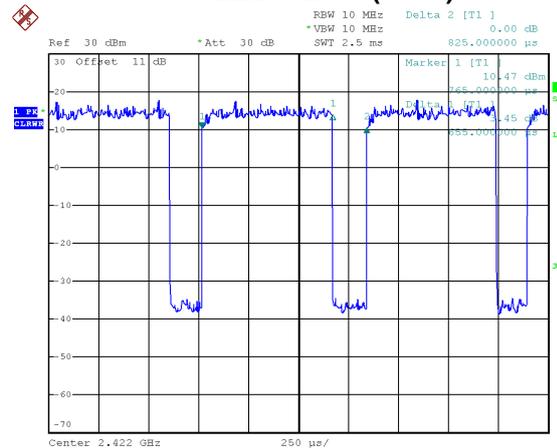
**IEEE 802.11n(HT20)**



Date: 12.AUG.2021 17:52:45

Duty cycle = 1.315 ms / 1.440 ms = 91.32%  
 Duty Factor = 10 log(1/Duty cycle) = 0.39

**IEEE 802.11n(HT40)**



Date: 12.AUG.2021 17:47:00

Duty cycle = 0.655 ms / 0.825 ms = 79.39%  
 Duty Factor = 10 log(1/Duty cycle) = 1.00

**NOTE:**

For IEEE 802.11b:

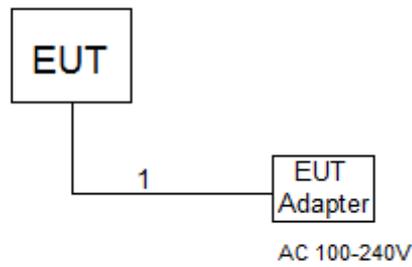
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz.

For IEEE 802.11g / IEEE 802.11n(HT20):

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

For IEEE 802.11n(HT40):

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

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

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

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

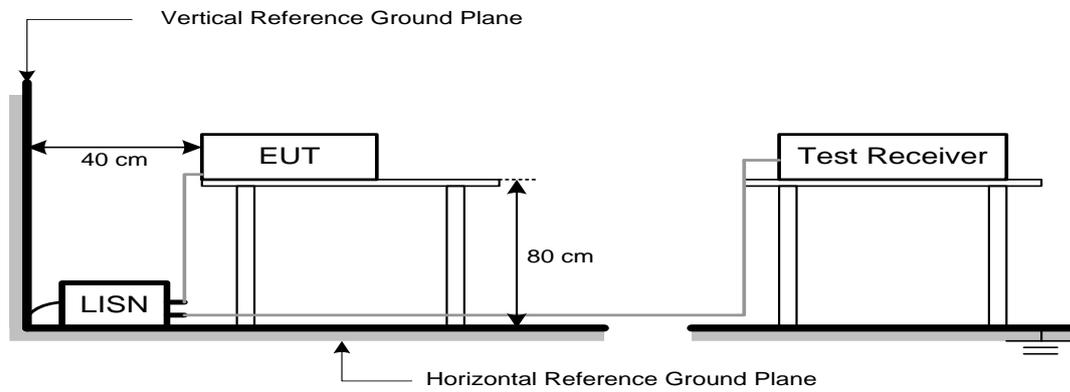
The following table is the setting of the receiver:

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

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

## 4. RADIATED EMISSIONS

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dB $\mu$ V/m)		Harmonic at 1.5m (dB $\mu$ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(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)

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

$$20 \log (d_{\text{limit}}/d_{\text{measure}}) = 20 \log (3/1.5) = 6 \text{ dB.}$$

## 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m or 1.5m 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)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

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

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

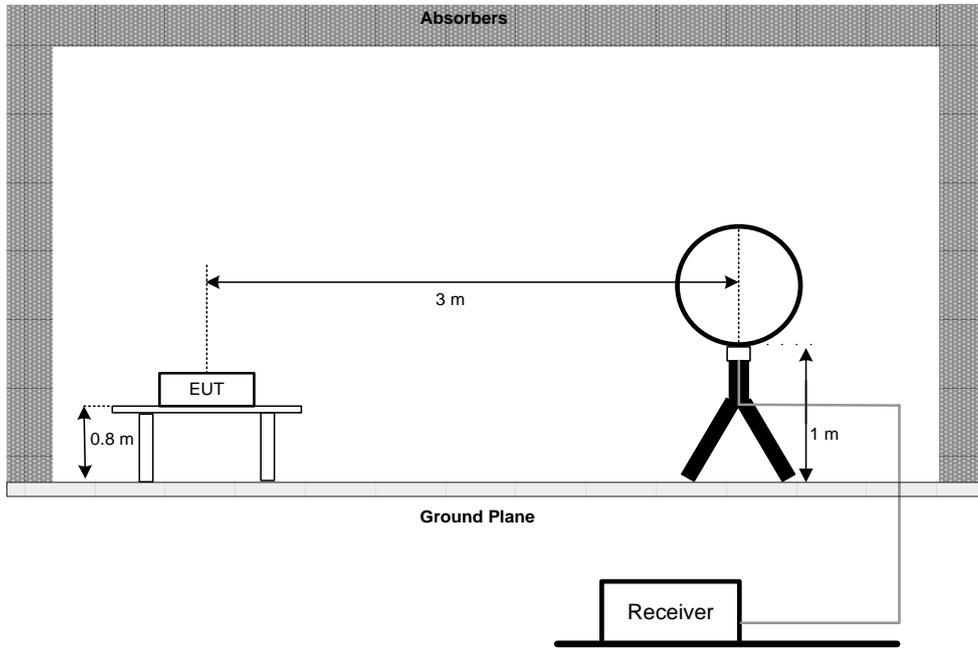
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

**4.3 DEVIATION FROM TEST STANDARD**

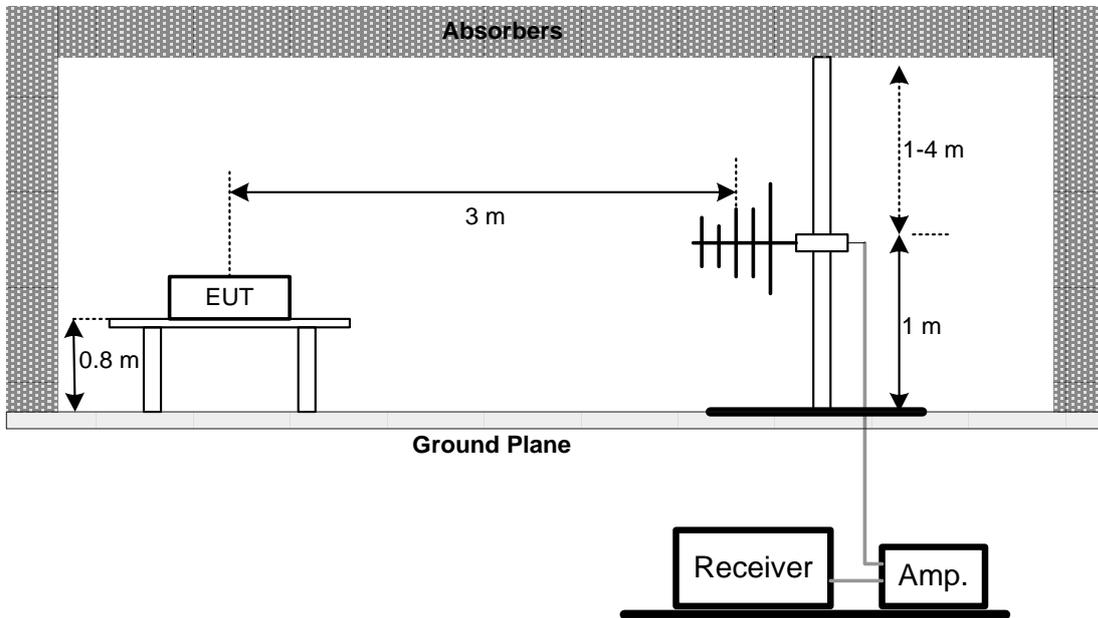
No deviation.

**4.4 TEST SETUP**

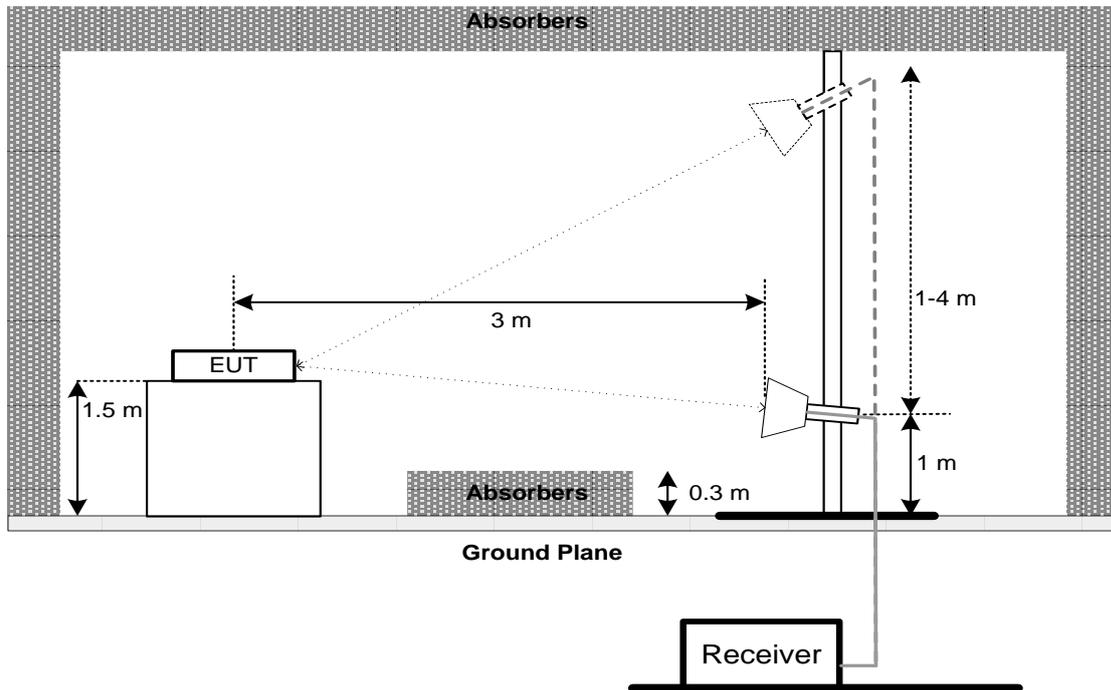
**9 kHz to 30 MHz**



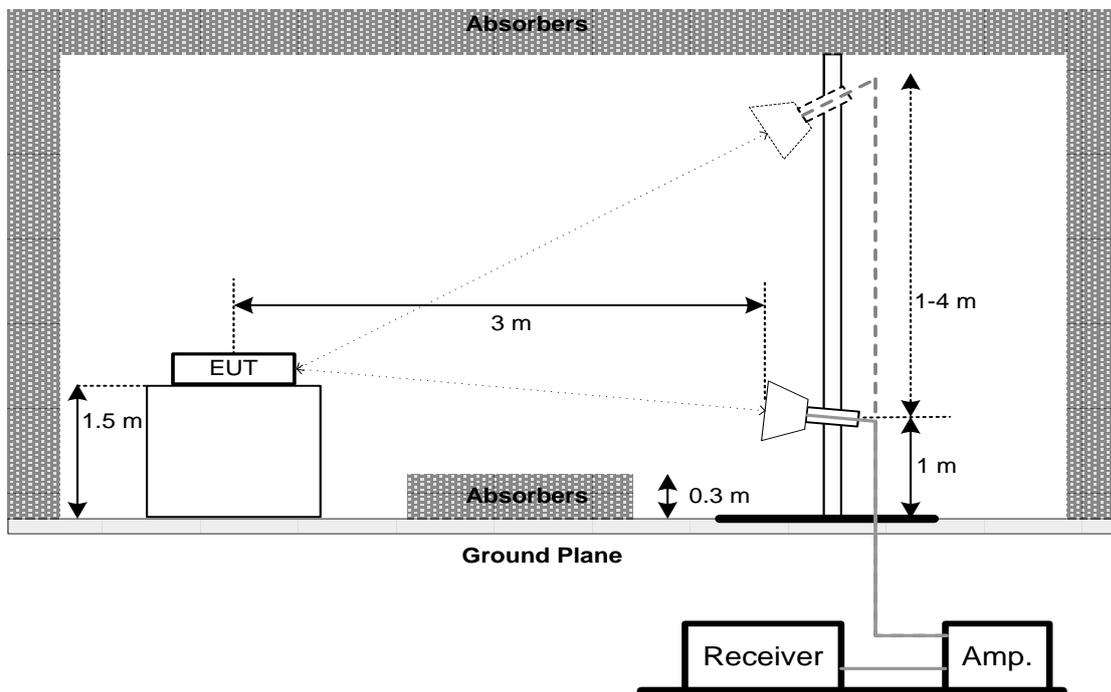
**30 MHz to 1 GHz**



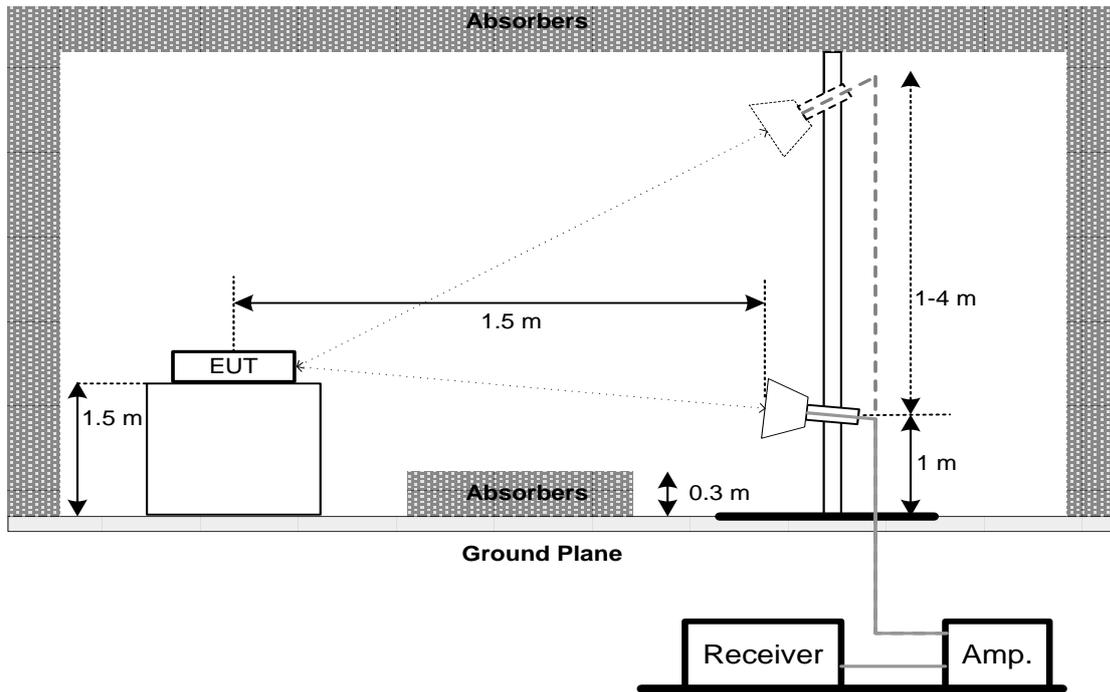
### Above 1 GHz Band edge



### Harmonic(1 GHz to 18 GHz)



### Harmonic(18 GHz to 26.5 GHz)



#### 4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

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

Please refer to the APPENDIX C.

#### 4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH

### 5.1 LIMIT

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

### 5.2 TEST PROCEDURE

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

For 6 dB Bandwidth:

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

For 99% Emission Bandwidth:

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

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

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

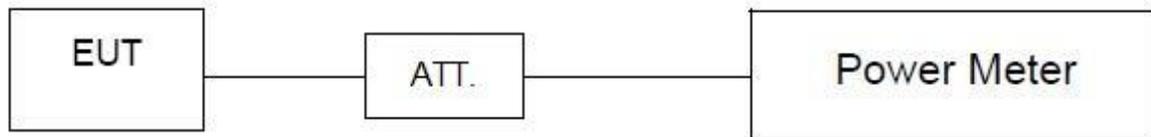
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 (for peak power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 7.2 TEST PROCEDURE

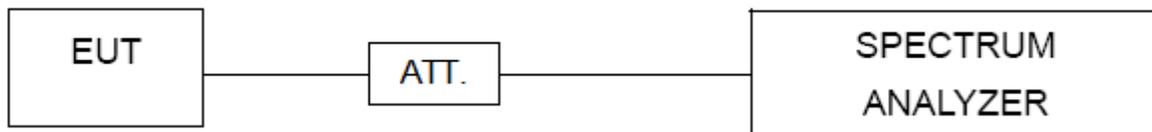
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

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

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

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

### 8.2 TEST PROCEDURE

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

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

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021 Aug. 23, 2022
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	April. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	May. 20, 2022
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
3	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 9160	9160-3233	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980401	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2 500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-8 00	170647	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1817	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC051845SE	980725	Sep. 14, 2021 Aug. 23, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-800	170647	Apr. 11, 2022
7	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	May 19, 2022
8	Pre-Amplifier	emci	EMC184045B	980265	Apr. 11, 2022
9	Test Cable	emci	EMC102-SM-SM-800	170335	Apr. 11, 2022
10	Test Cable	emci	EMC102-KM-KM-2500	170627	Apr. 11, 2022
11	MXE EMI Receiver	Keysight	N9038A	MY5640088	Mar. 21, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

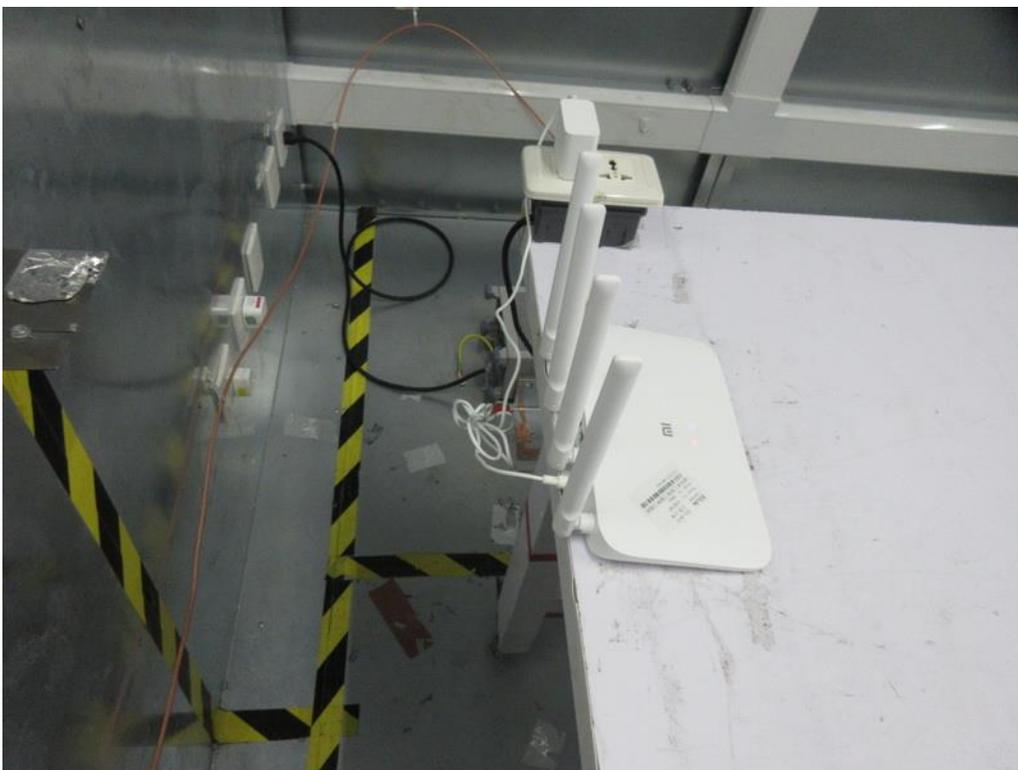
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2022
2	Wideband Power Sensor	Keysight	N1923A	MY58310003	Mar. 21, 2022
3	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

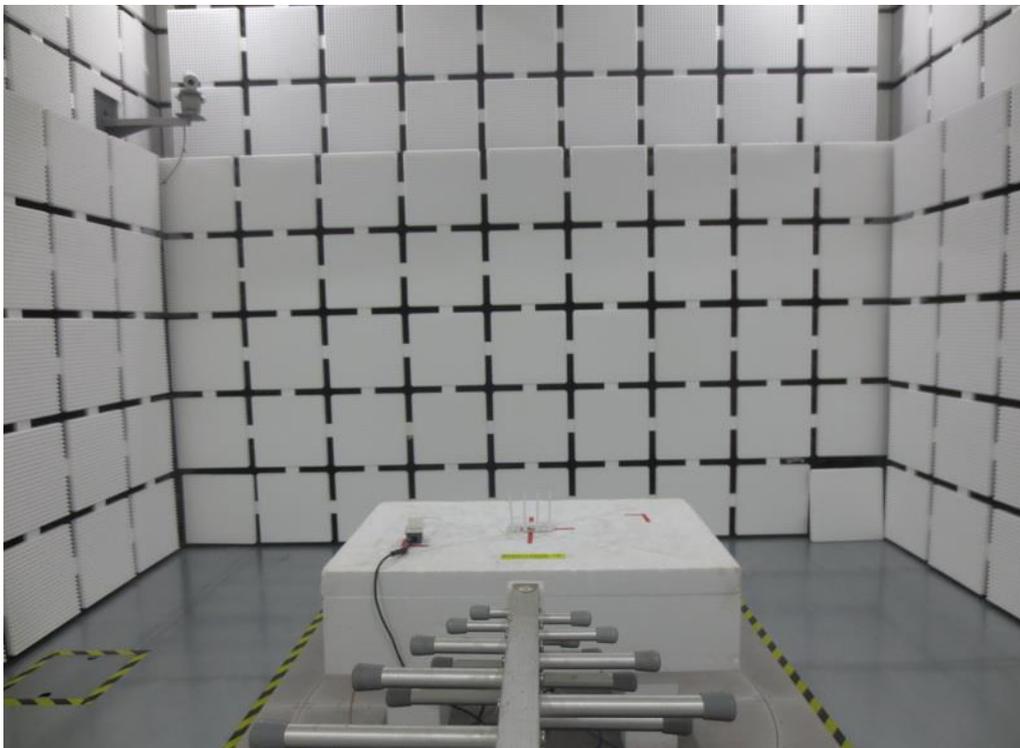
Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

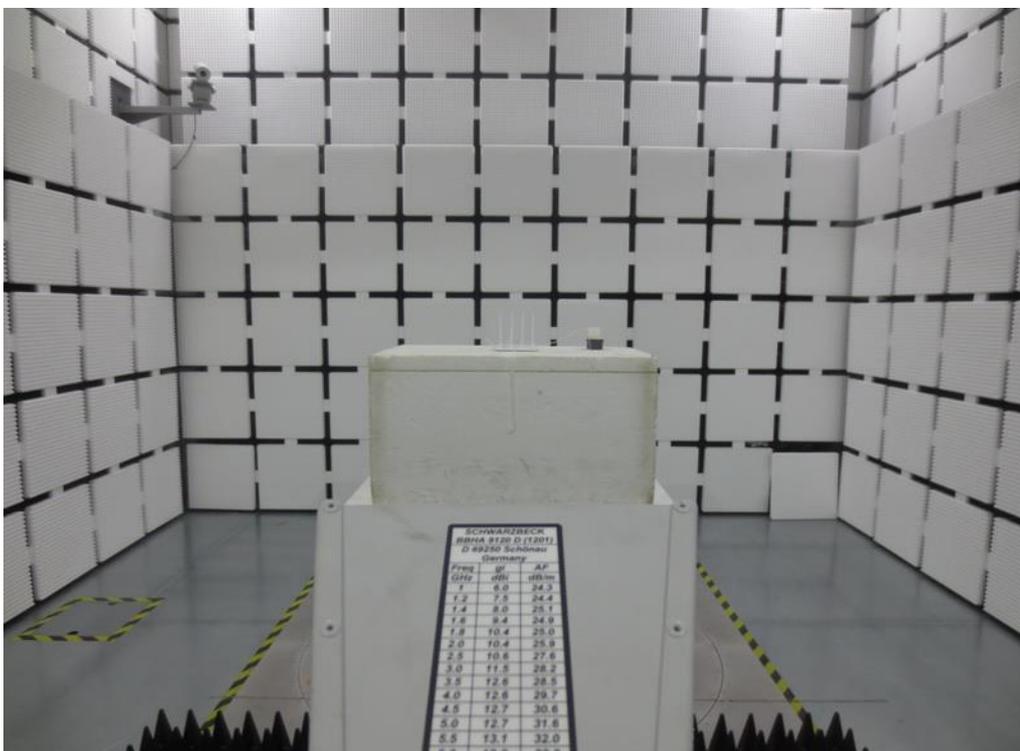
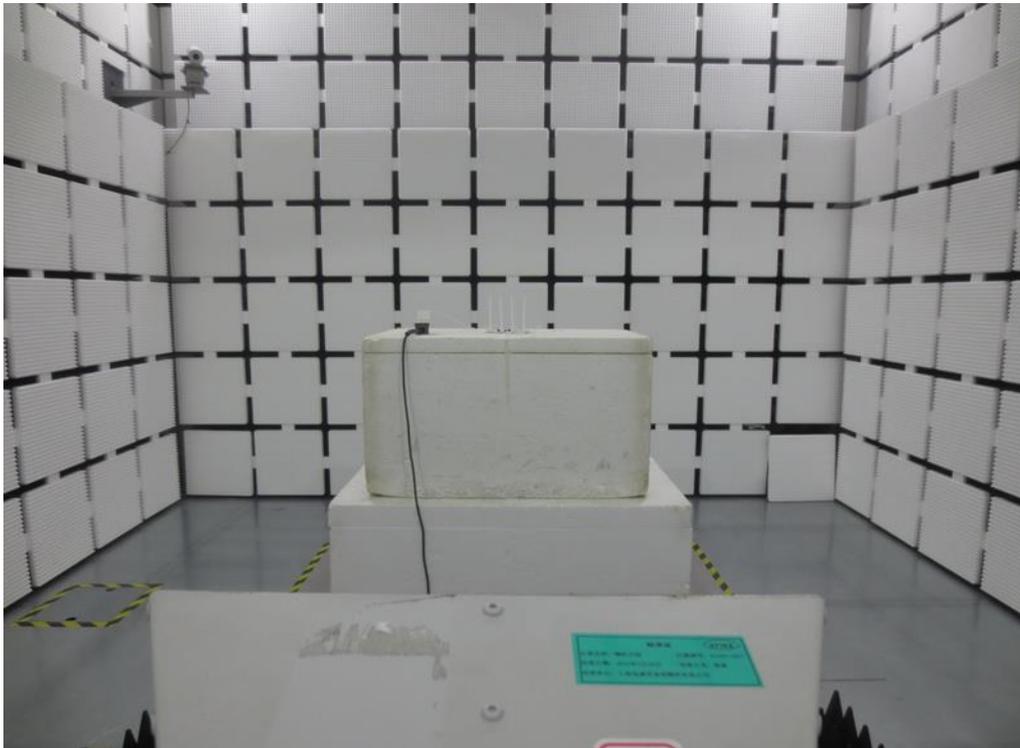
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

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

All calibration period of equipment list is one year.

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

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

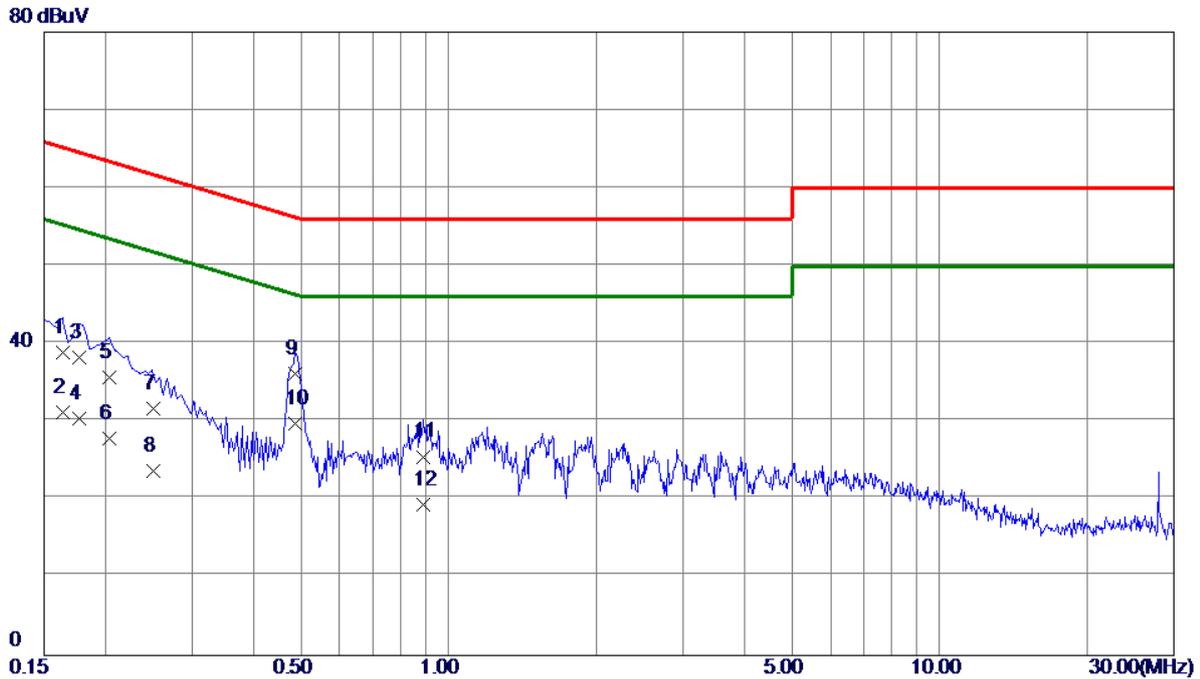
**Radiated Emissions Test Photos****Above 1 GHz**

**Conducted Test Photos**



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

Test Mode	TX G Mode Channel 06	Phase	Line
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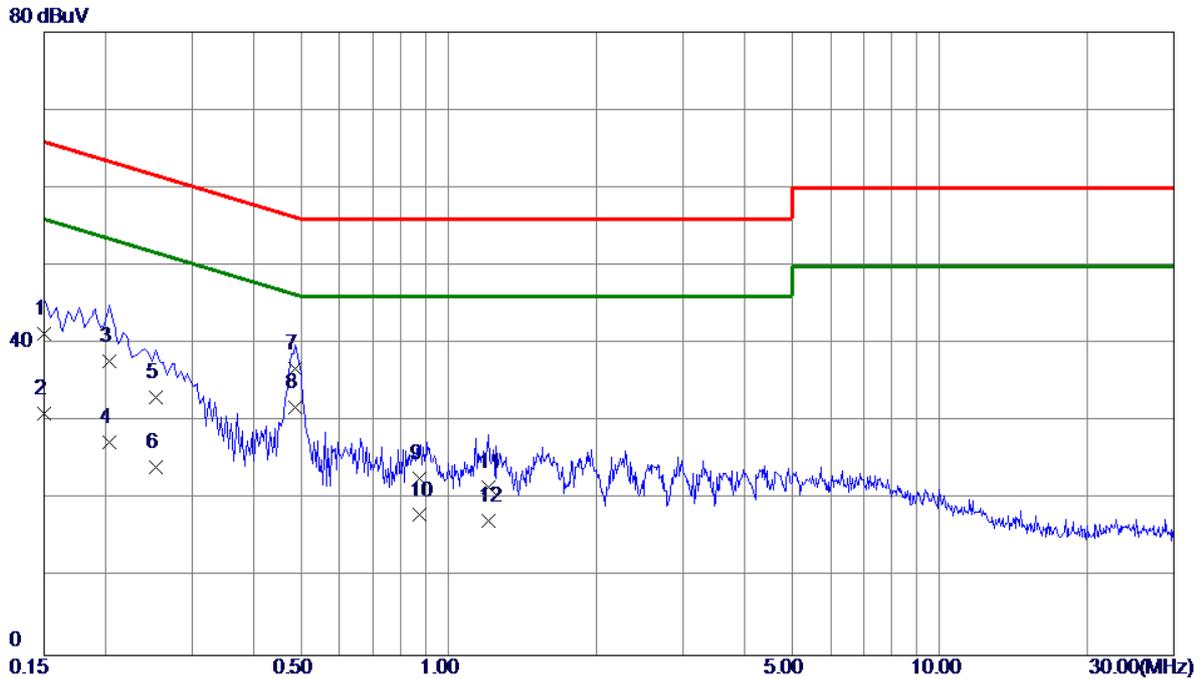


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	29.21	9.72	38.93	65.28	-26.35	QP	
2	0.1635	21.41	9.72	31.13	55.28	-24.15	AVG	
3	0.1770	28.50	9.73	38.23	64.63	-26.40	QP	
4	0.1770	20.70	9.73	30.43	54.63	-24.20	AVG	
5	0.2040	26.00	9.74	35.74	63.45	-27.71	QP	
6	0.2040	18.10	9.74	27.84	53.45	-25.61	AVG	
7	0.2508	21.91	9.75	31.66	61.73	-30.07	QP	
8	0.2508	13.91	9.75	23.66	51.73	-28.07	AVG	
9	0.4875	26.30	9.79	36.09	56.21	-20.12	QP	
10 *	0.4875	19.90	9.79	29.69	46.21	-16.52	AVG	
11	0.8880	15.70	9.82	25.52	56.00	-30.48	QP	
12	0.8880	9.60	9.82	19.42	46.00	-26.58	AVG	

**REMARKS:**

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

Test Mode	TX G Mode Channel 06	Phase	Neutral
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No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	31.60	9.68	41.28	66.00	-24.72	QP	
2	0.1500	21.40	9.68	31.08	56.00	-24.92	AVG	
3	0.2040	28.00	9.71	37.71	63.45	-25.74	QP	
4	0.2040	17.60	9.71	27.31	53.45	-26.14	AVG	
5	0.2535	23.41	9.72	33.13	61.64	-28.51	QP	
6	0.2535	14.41	9.72	24.13	51.64	-27.51	AVG	
7	0.4875	27.00	9.77	36.77	56.21	-19.44	QP	
8 *	0.4875	22.00	9.77	31.77	46.21	-14.44	AVG	
9	0.8700	12.90	9.80	22.70	56.00	-33.30	QP	
10	0.8700	8.20	9.80	18.00	46.00	-28.00	AVG	
11	1.2075	11.70	9.83	21.53	56.00	-34.47	QP	
12	1.2075	7.50	9.83	17.33	46.00	-28.67	AVG	

**REMARKS:**

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

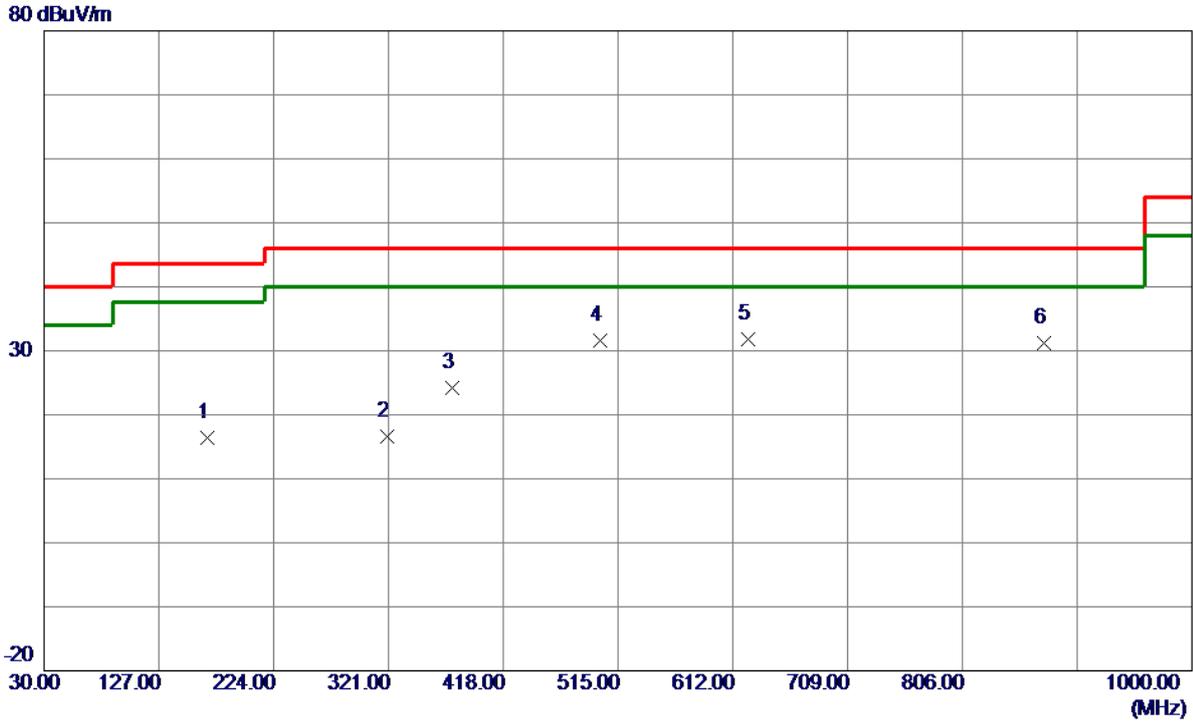
(2) Margin Level = Measurement Value - Limit Value.

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

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

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

Test Mode	TX G Mode Channel 06	Polarization	Vertical
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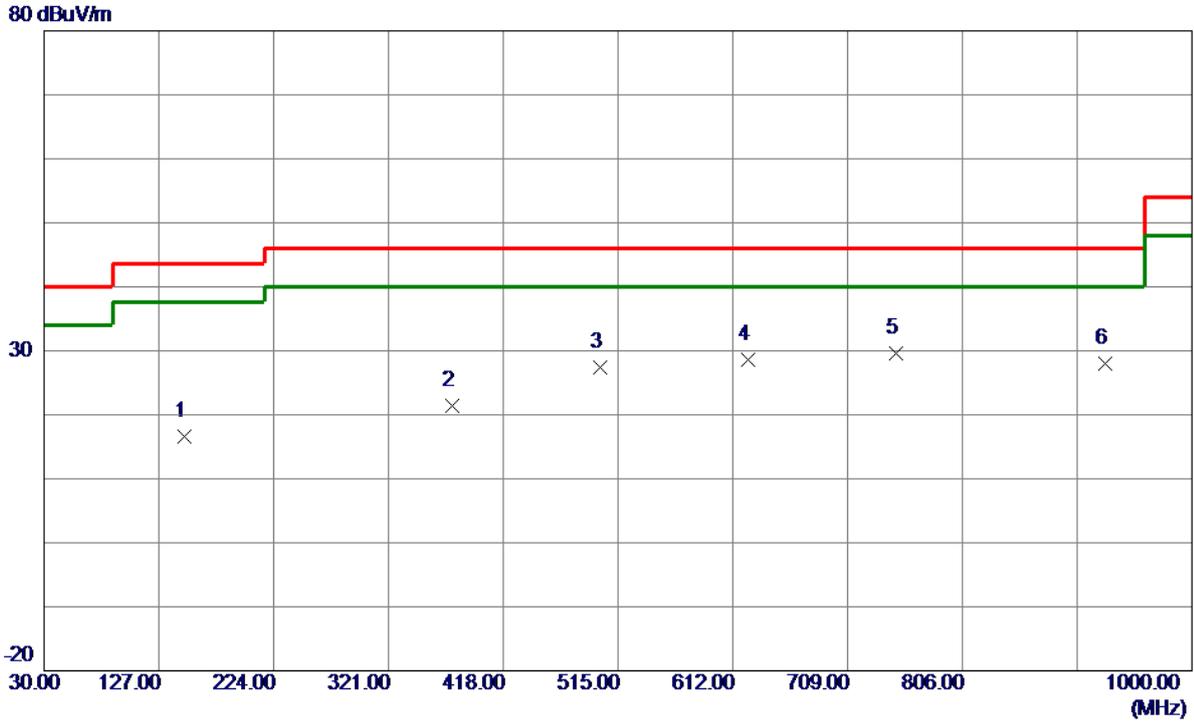


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	167.7400	32.63	-16.28	16.35	43.50	-27.15	Peak	
2	319.5450	31.72	-15.05	16.67	46.00	-29.33	Peak	
3	374.8350	38.17	-13.90	24.27	46.00	-21.73	Peak	
4	499.9650	42.79	-11.21	31.58	46.00	-14.42	Peak	
5 *	625.0949	40.64	-8.86	31.78	46.00	-14.22	Peak	
6	874.8700	37.35	-6.14	31.21	46.00	-14.79	Peak	

**REMARKS:**

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

Test Mode	TX G Mode Channel 06	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	148.3400	32.89	-16.35	16.54	43.50	-26.96	Peak	
2	374.8350	35.22	-13.90	21.32	46.00	-24.68	Peak	
3	499.9650	38.70	-11.21	27.49	46.00	-18.51	Peak	
4	625.0949	37.52	-8.86	28.66	46.00	-17.34	Peak	
5 *	749.7400	36.91	-7.23	29.68	46.00	-16.32	Peak	
6	926.2800	33.47	-5.47	28.00	46.00	-18.00	Peak	

**REMARKS:**

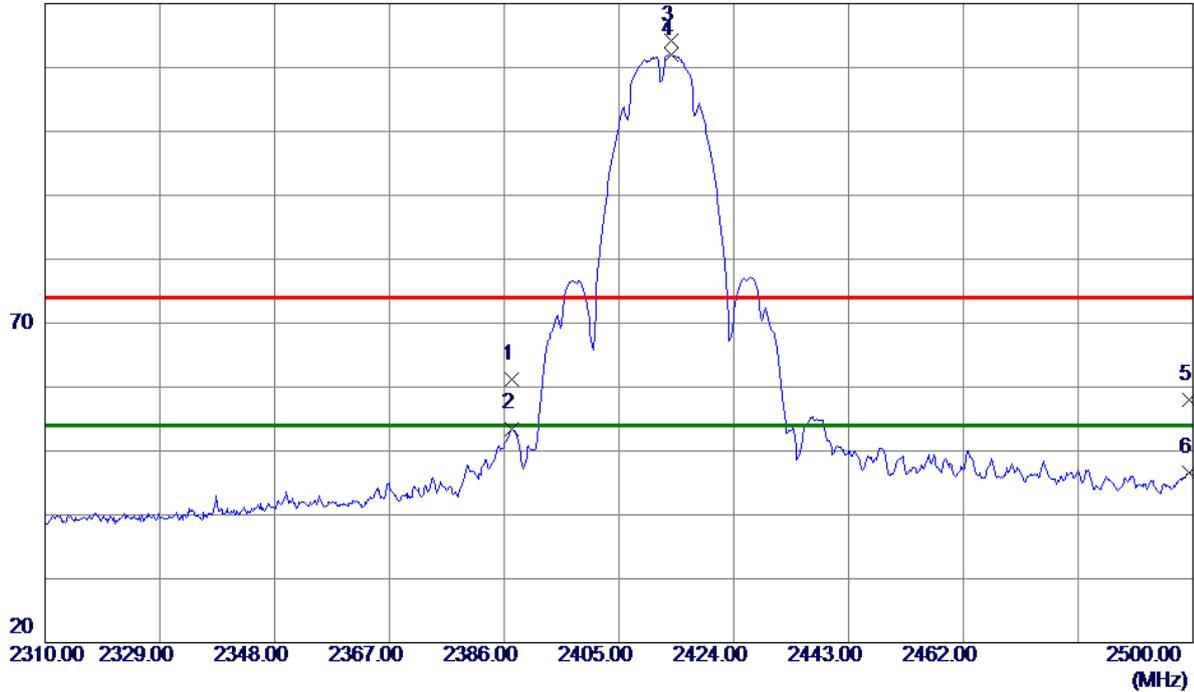
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

### Ant.1+ Ant.2

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.2350	29.42	31.74	61.16	74.00	-12.84	Peak	
2	2387.2350	21.76	31.74	53.50	54.00	-0.50	AVG	
3	2413.7400	82.52	31.72	114.24	74.00	40.24	Peak	No limit
4 *	2413.7400	80.32	31.72	112.04	54.00	58.04	AVG	No limit
5	2499.3350	26.29	31.71	58.00	74.00	-16.00	Peak	
6	2499.3350	14.95	31.71	46.66	54.00	-7.34	AVG	

**REMARKS:**

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

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

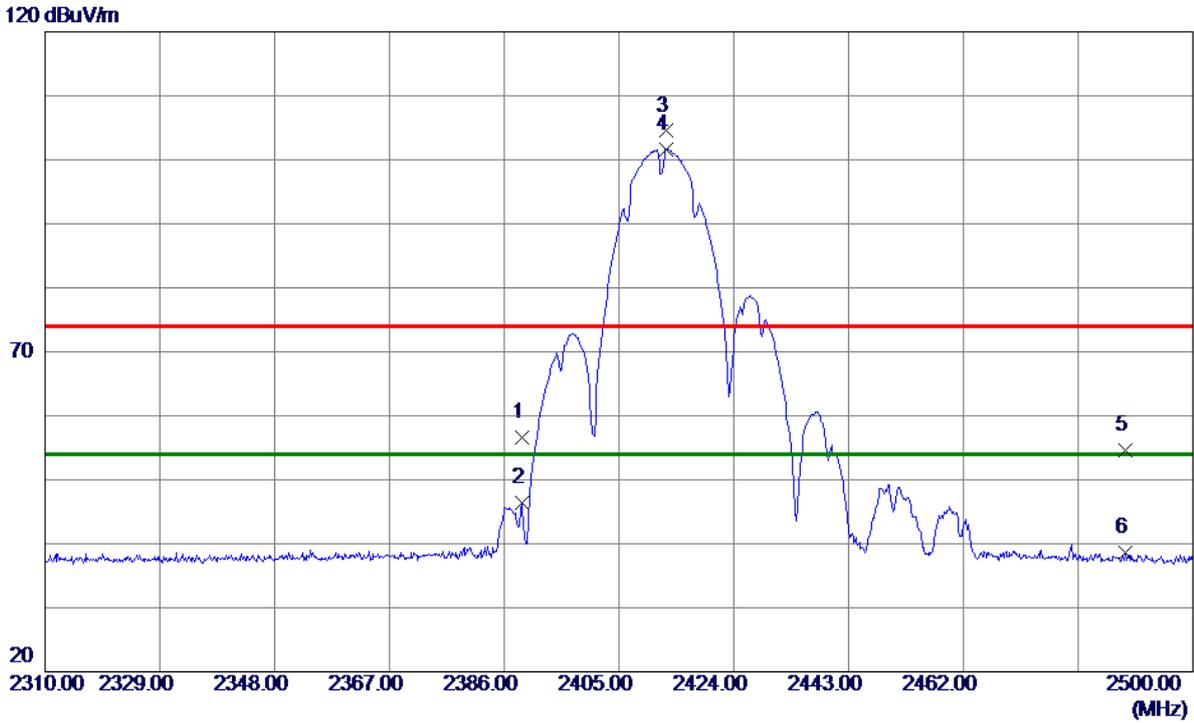


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.7250	67.65	-16.98	50.67	74.00	-23.33	Peak	
2	7496.1250	57.01	-12.81	44.20	74.00	-29.80	Peak	

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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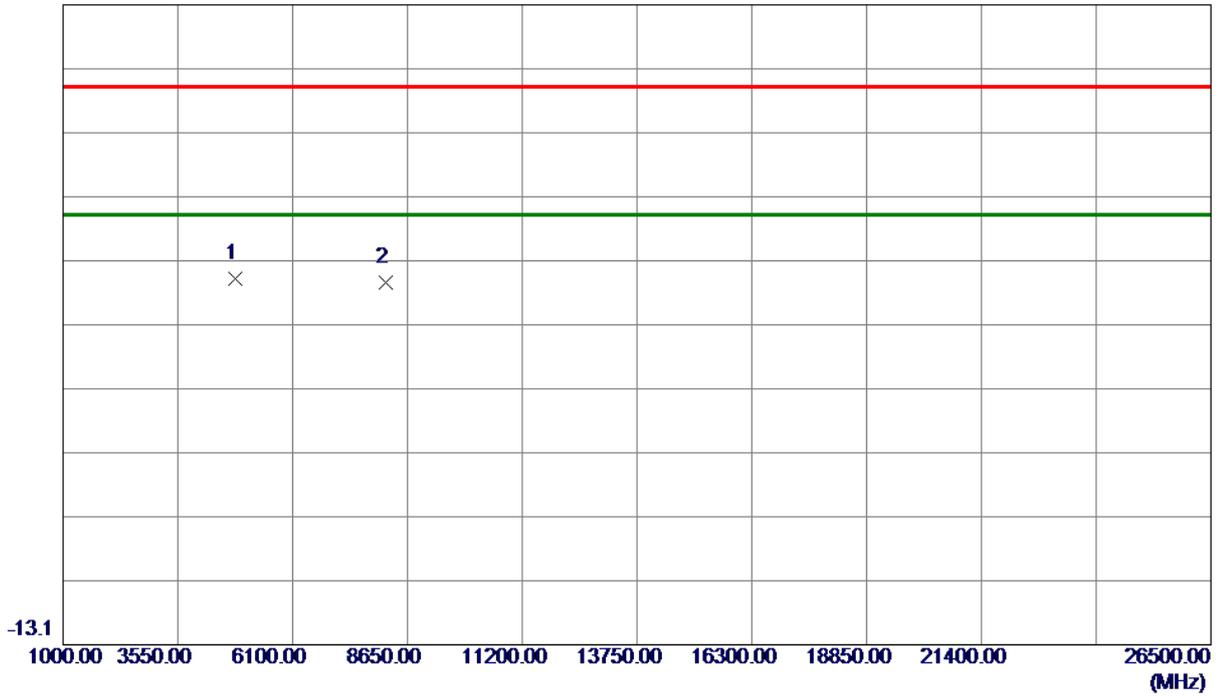
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.9450	24.91	31.74	56.65	74.00	-17.35	Peak	
2	2388.9450	14.73	31.74	46.47	54.00	-7.53	AVG	
3	2412.7900	72.78	31.72	104.50	74.00	30.50	Peak	No limit
4 *	2412.7900	69.89	31.72	101.61	54.00	47.61	AVG	No limit
5	2488.8850	22.92	31.71	54.63	74.00	-19.37	Peak	
6	2488.8850	6.86	31.71	38.57	54.00	-15.43	AVG	

**REMARKS:**

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

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

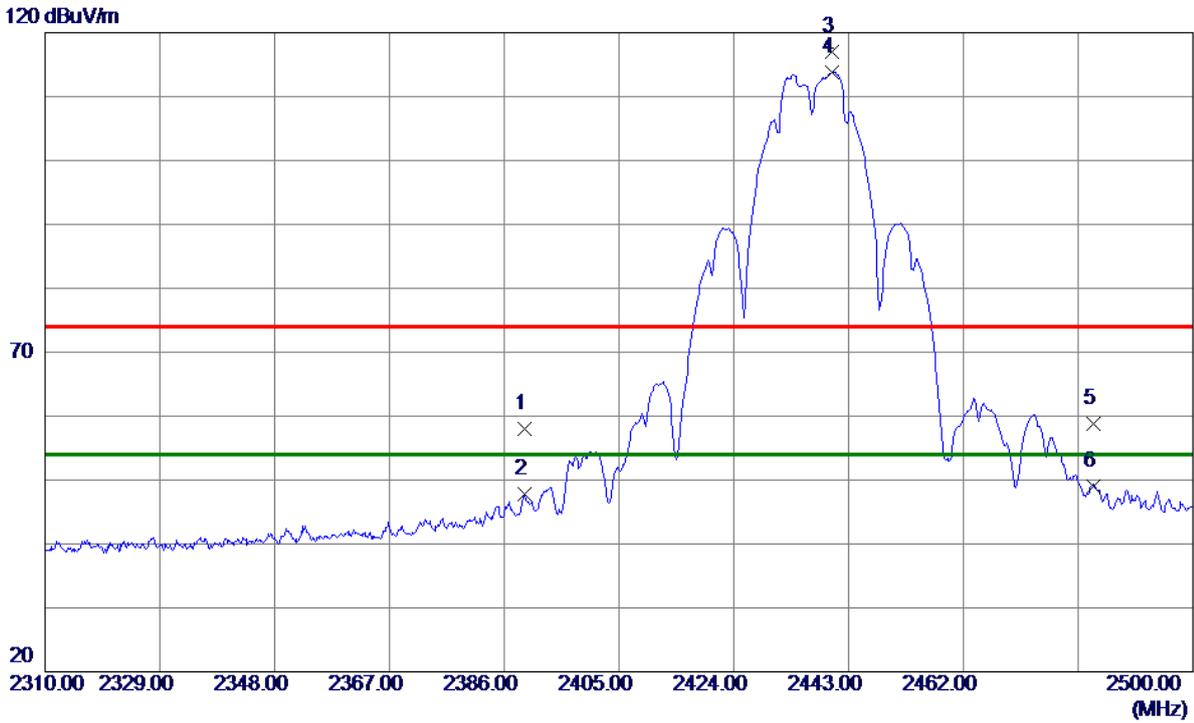


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.7250	61.04	-16.98	44.06	74.00	-29.94	Peak	
2	8160.4000	55.75	-12.20	43.55	74.00	-30.45	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.3250	26.18	31.74	57.92	74.00	-16.08	Peak	
2	2389.3250	16.08	31.74	47.82	54.00	-6.18	AVG	
3	2440.2450	85.27	31.72	116.99	74.00	42.99	Peak	No limit
4 *	2440.2450	82.09	31.72	113.81	54.00	59.81	AVG	No limit
5	2483.5000	27.00	31.71	58.71	74.00	-15.29	Peak	
6	2483.5000	17.27	31.71	48.98	54.00	-5.02	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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80 dBuV/m

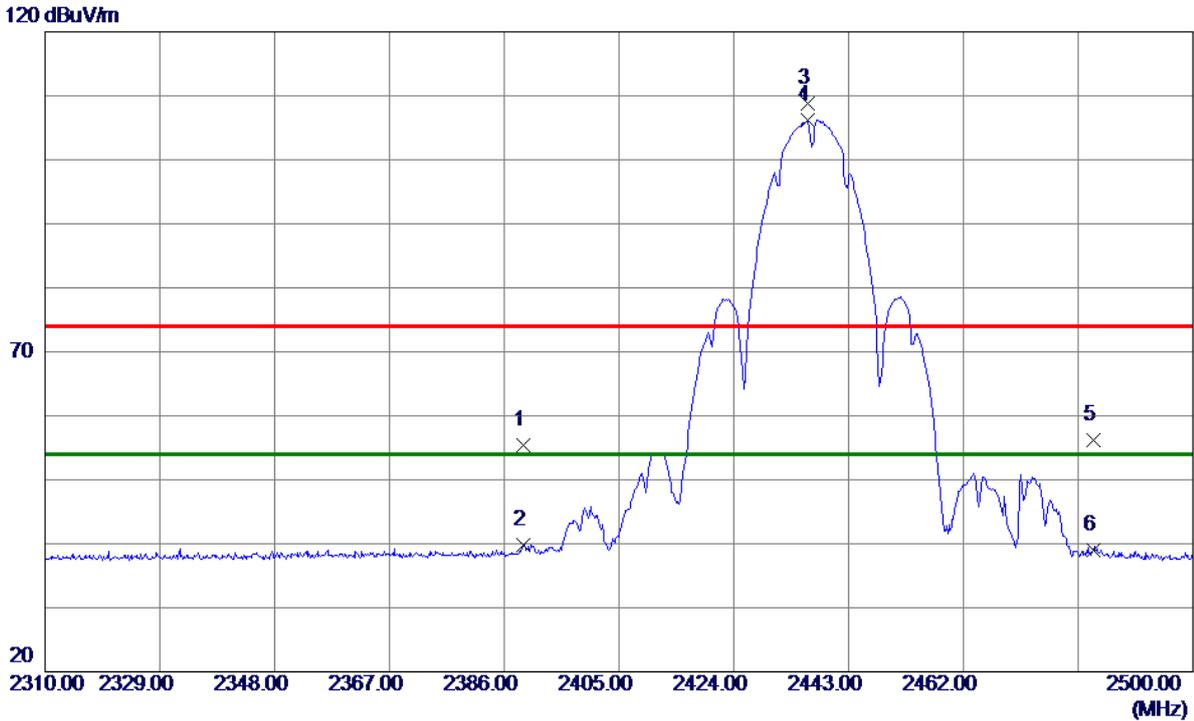


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5000	66.06	-16.90	49.16	74.00	-24.84	Peak	
2	7312.3600	59.58	-12.84	46.74	74.00	-27.26	Peak	
3 *	12184.3900	56.97	-7.71	49.26	74.00	-24.74	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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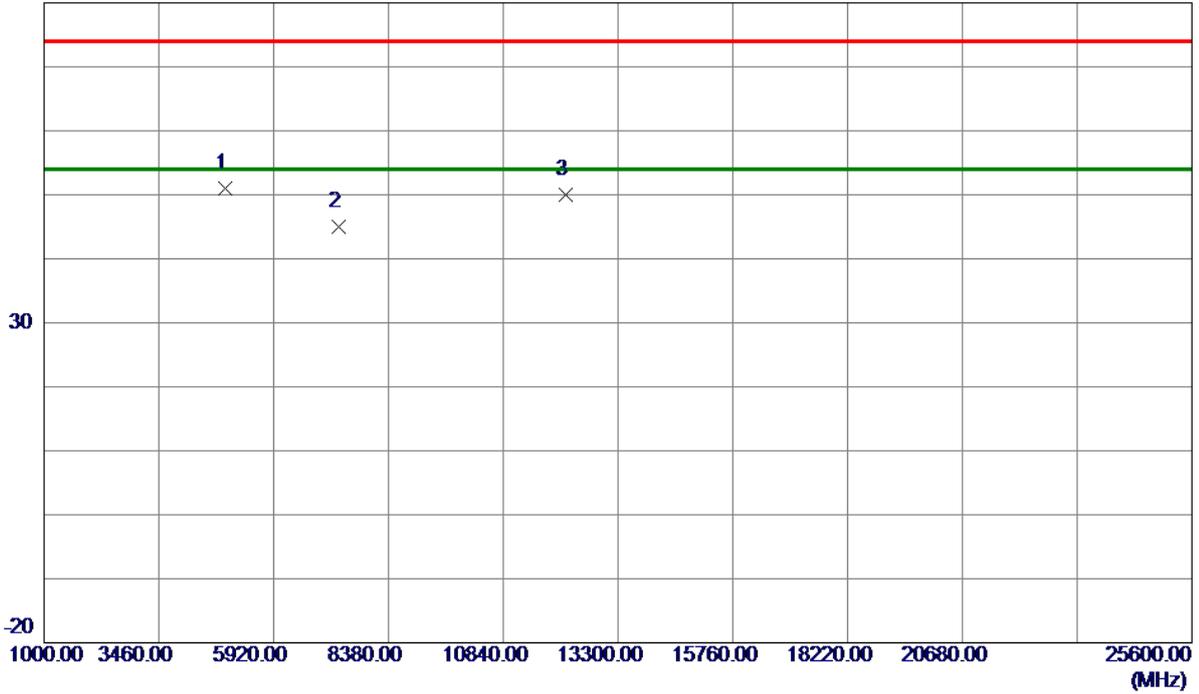
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.1350	23.71	31.74	55.45	74.00	-18.55	Peak	
2	2389.1350	8.14	31.74	39.88	54.00	-14.12	AVG	
3	2436.2549	77.05	31.72	108.77	74.00	34.77	Peak	No limit
4 *	2436.2549	74.44	31.72	106.16	54.00	52.16	AVG	No limit
5	2483.5000	24.54	31.71	56.25	74.00	-17.75	Peak	
6	2483.5000	7.30	31.71	39.01	54.00	-14.99	AVG	

**REMARKS:**

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

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

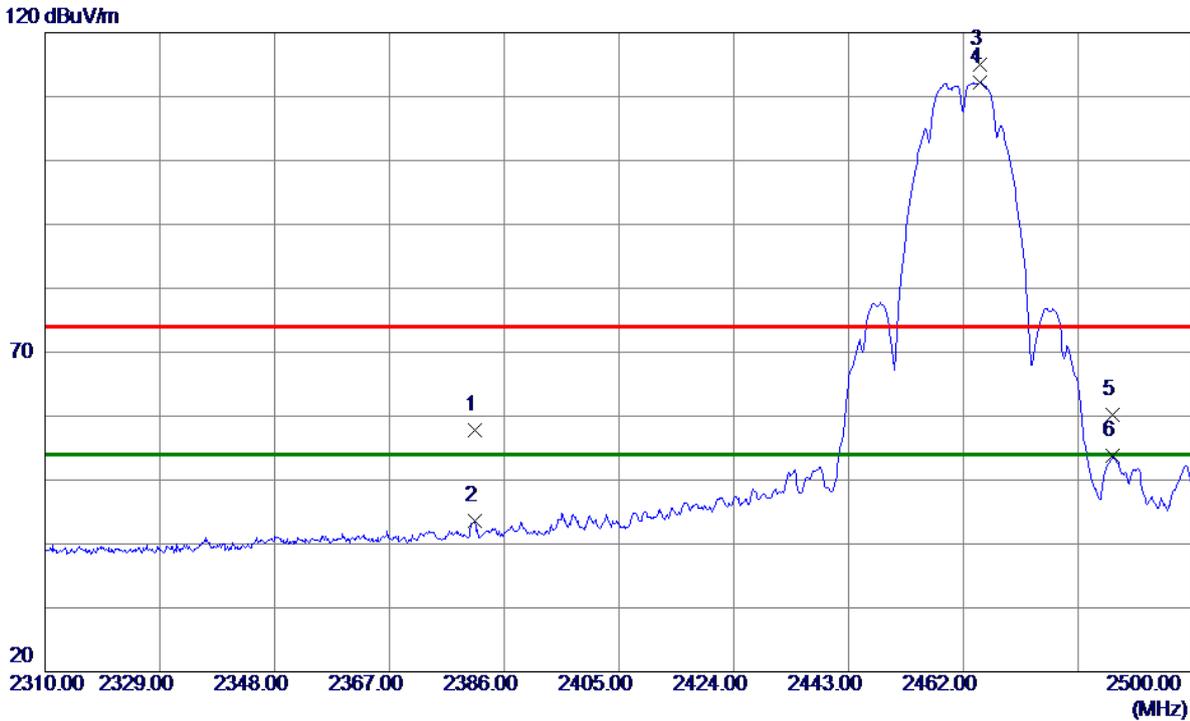


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.5000	67.84	-16.90	50.94	74.00	-23.06	Peak	
2	7312.3600	57.77	-12.84	44.93	74.00	-29.07	Peak	
3	12186.8500	57.71	-7.70	50.01	74.00	-23.99	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2381.0600	26.12	31.76	57.88	74.00	-16.12	Peak	
2	2381.0600	11.82	31.76	43.58	54.00	-10.42	AVG	
3	2464.7549	83.35	31.71	115.06	74.00	41.06	Peak	No limit
4 *	2464.7549	80.55	31.71	112.26	54.00	58.26	AVG	No limit
5	2486.7000	28.42	31.71	60.13	74.00	-13.87	Peak	
6	2486.7000	22.05	31.71	53.76	54.00	-0.24	AVG	

**REMARKS:**

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

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

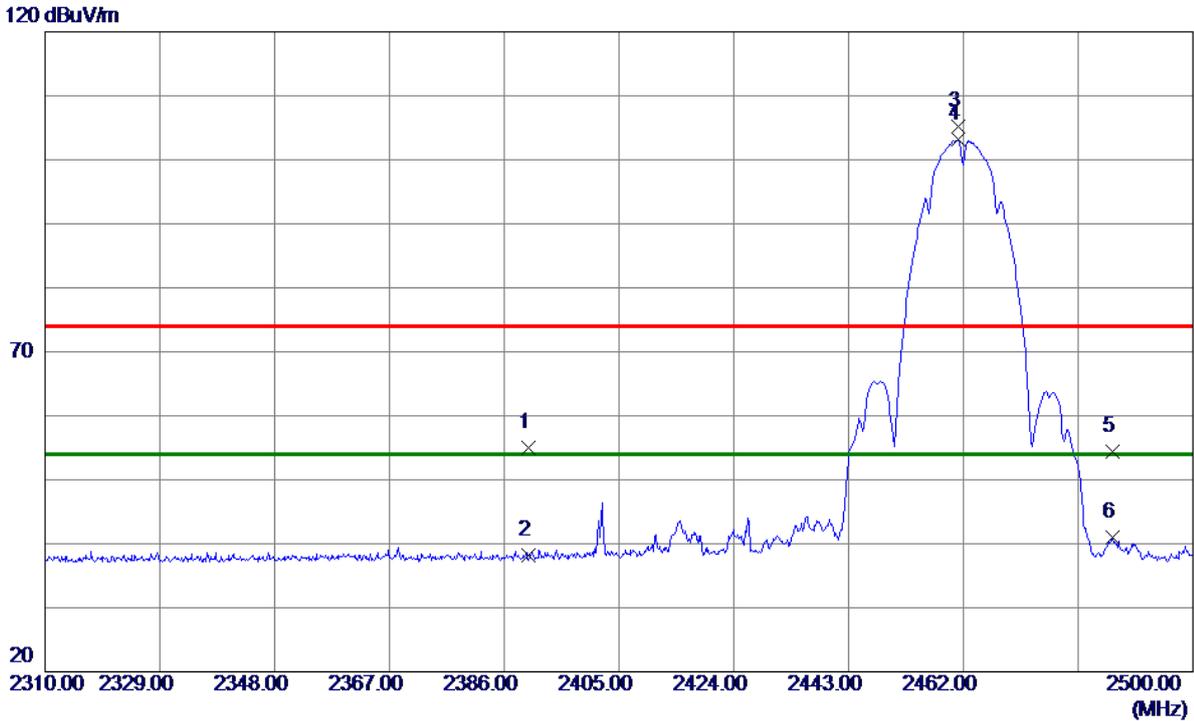


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	63.00	-16.77	46.23	74.00	-27.77	Peak	
2	7498.6750	56.74	-12.81	43.93	74.00	-30.07	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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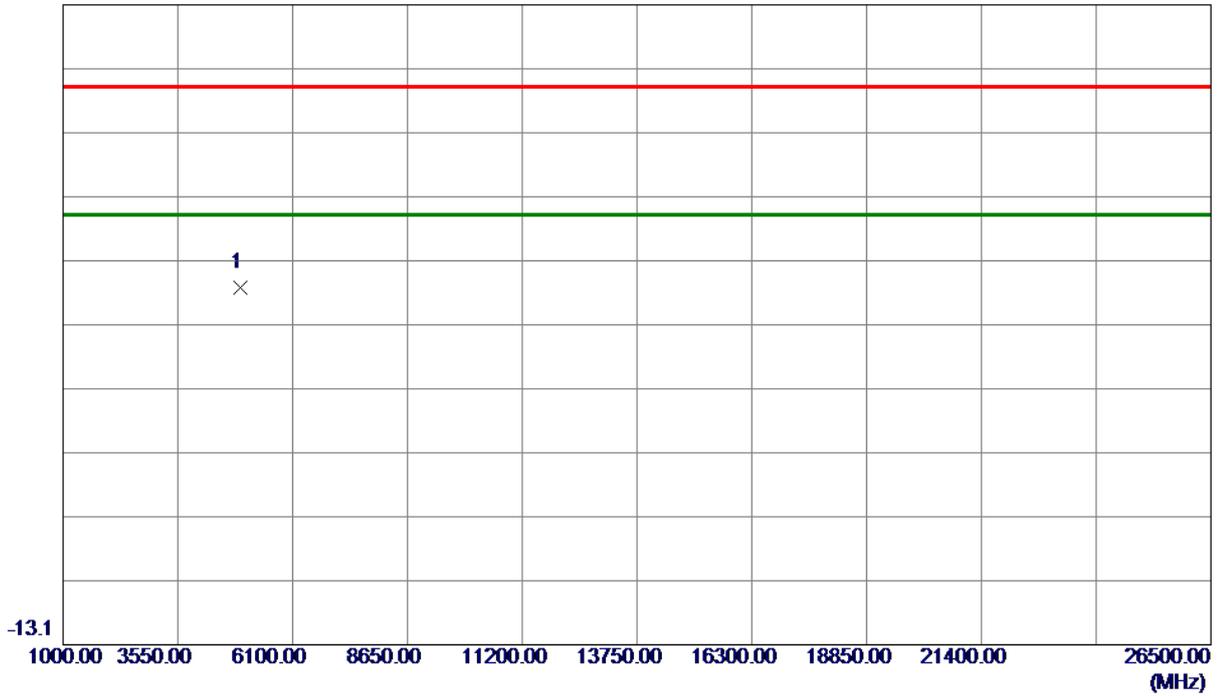
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.27	31.74	55.01	74.00	-18.99	Peak	
2	2390.0000	6.39	31.74	38.13	54.00	-15.87	AVG	
3	2461.1450	73.51	31.71	105.22	74.00	31.22	Peak	No limit
4 *	2461.1450	71.45	31.71	103.16	54.00	49.16	AVG	No limit
5	2486.7000	22.74	31.71	54.45	74.00	-19.55	Peak	
6	2486.7000	9.31	31.71	41.02	54.00	-12.98	AVG	

**REMARKS:**

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

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

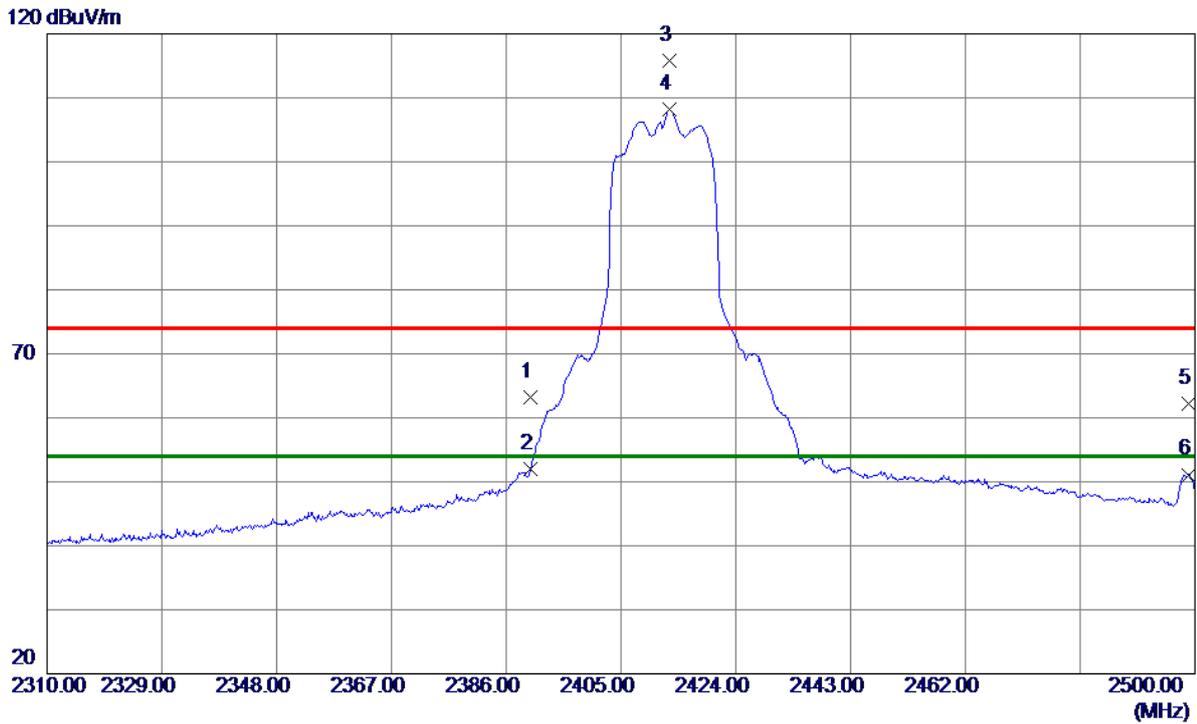


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	59.56	-16.77	42.79	74.00	-31.21	Peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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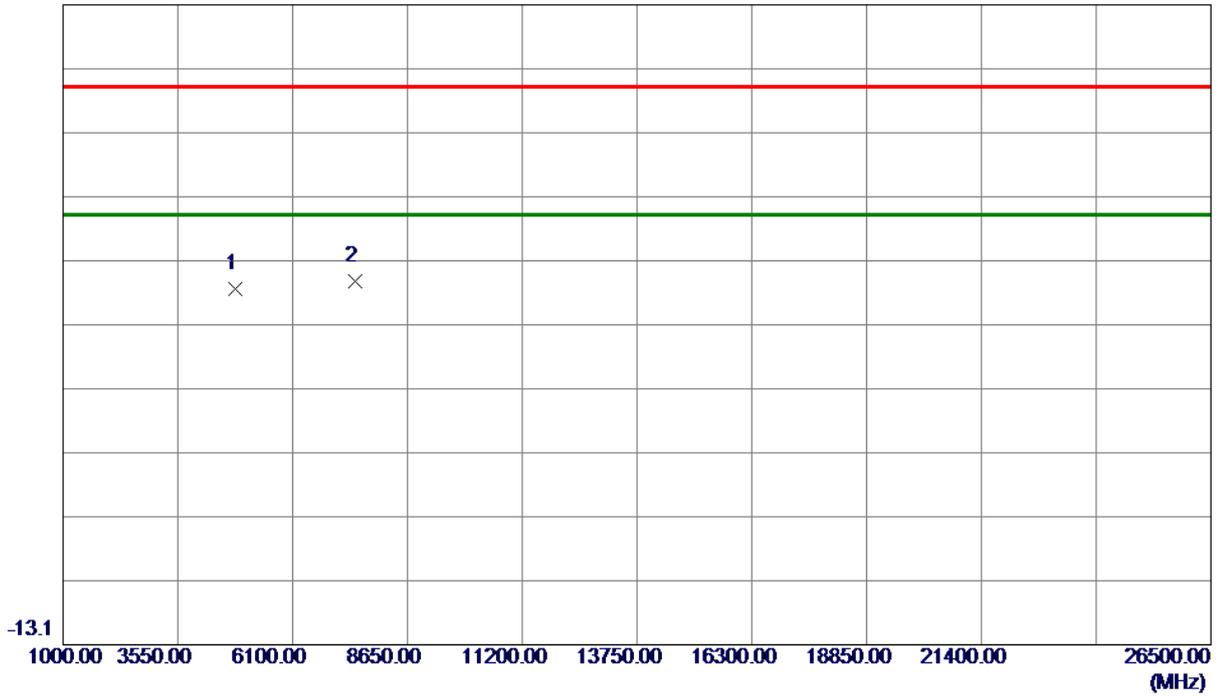
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.39	31.74	63.13	74.00	-10.87	Peak	
2	2390.0000	20.28	31.74	52.02	54.00	-1.98	AVG	
3	2412.9800	84.12	31.72	115.84	74.00	41.84	Peak	No limit
4 *	2412.9800	76.42	31.72	108.14	54.00	54.14	AVG	No limit
5	2498.8600	30.47	31.71	62.18	74.00	-11.82	Peak	
6	2498.8600	19.39	31.71	51.10	54.00	-2.90	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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86.9 dBuV/m

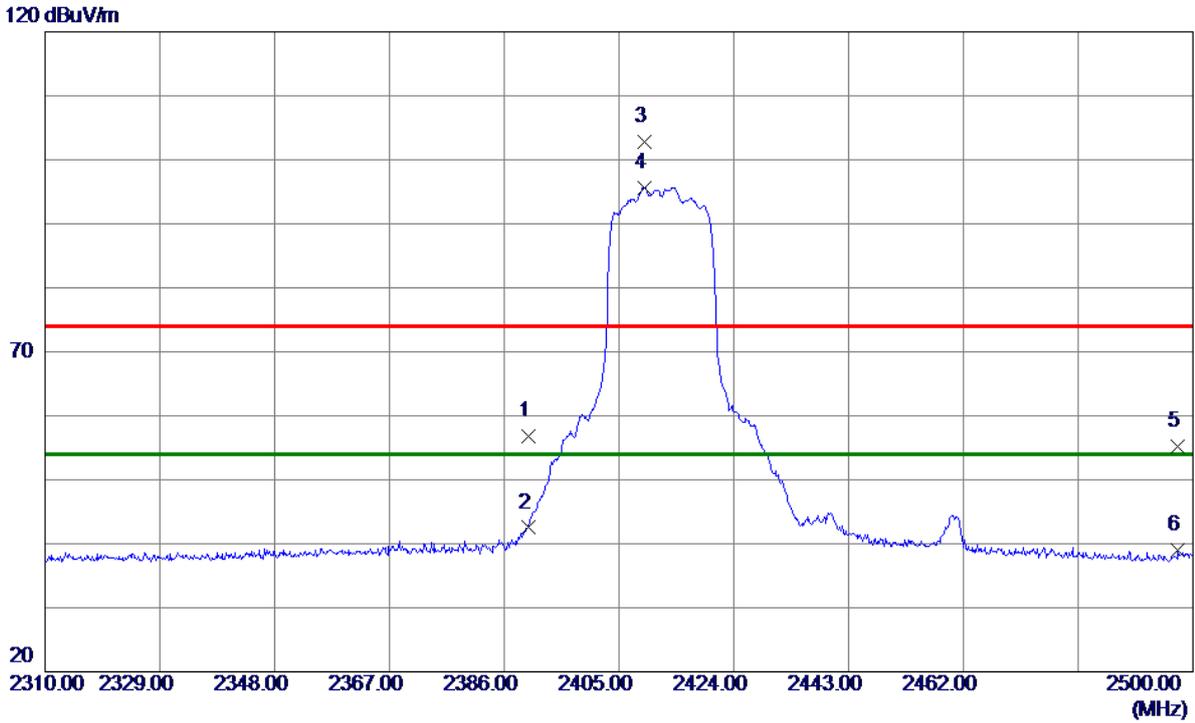


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.7250	59.53	-16.98	42.55	74.00	-31.45	Peak	
2 *	7497.4000	56.59	-12.81	43.78	74.00	-30.22	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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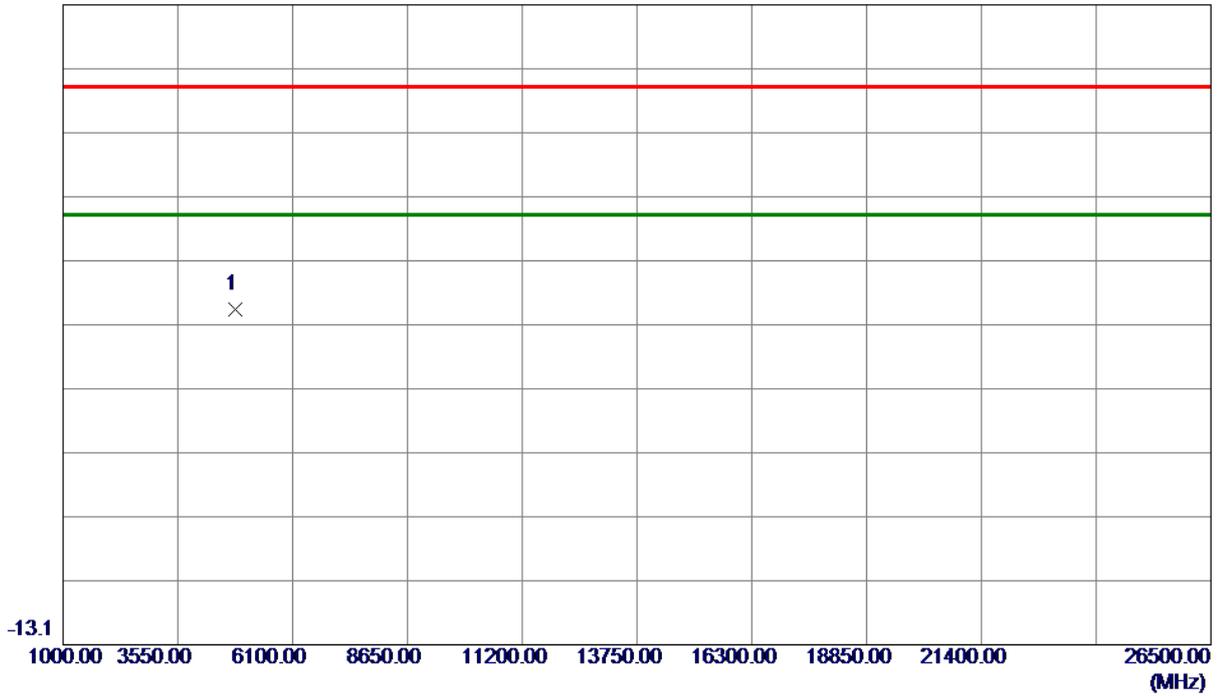
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.03	31.74	56.77	74.00	-17.23	Peak	
2	2390.0000	10.76	31.74	42.50	54.00	-11.50	AVG	
3	2409.1800	71.07	31.72	102.79	74.00	28.79	Peak	No limit
4 *	2409.1800	63.94	31.72	95.66	54.00	41.66	AVG	No limit
5	2497.5300	23.42	31.71	55.13	74.00	-18.87	Peak	
6	2497.5300	7.26	31.71	38.97	54.00	-15.03	AVG	

**REMARKS:**

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

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

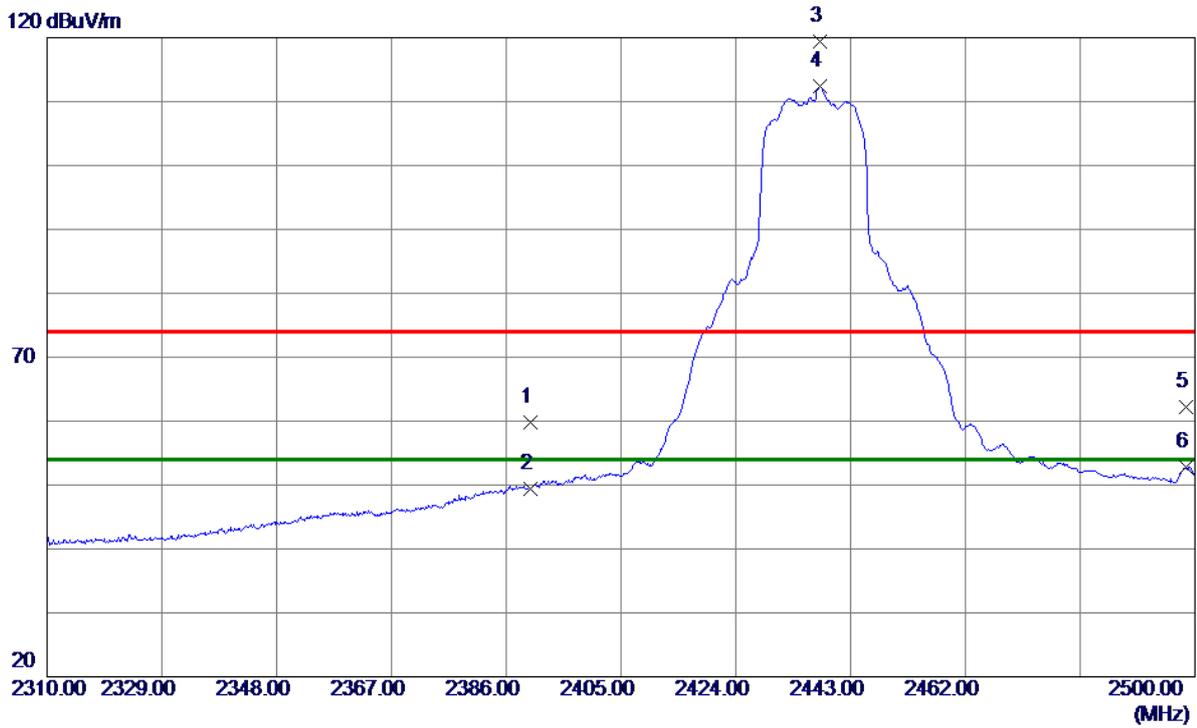


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4827.5500	56.24	-16.98	39.26	74.00	-34.74	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.05	31.74	59.79	74.00	-14.21	Peak	
2	2390.0000	17.75	31.74	49.49	54.00	-4.51	AVG	
3	2437.8700	87.66	31.72	119.38	74.00	45.38	Peak	No limit
4 *	2437.8700	80.63	31.72	112.35	54.00	58.35	AVG	No limit
5	2498.4800	30.40	31.71	62.11	74.00	-11.89	Peak	
6	2498.4800	21.08	31.71	52.79	54.00	-1.21	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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86.9 dBuV/m

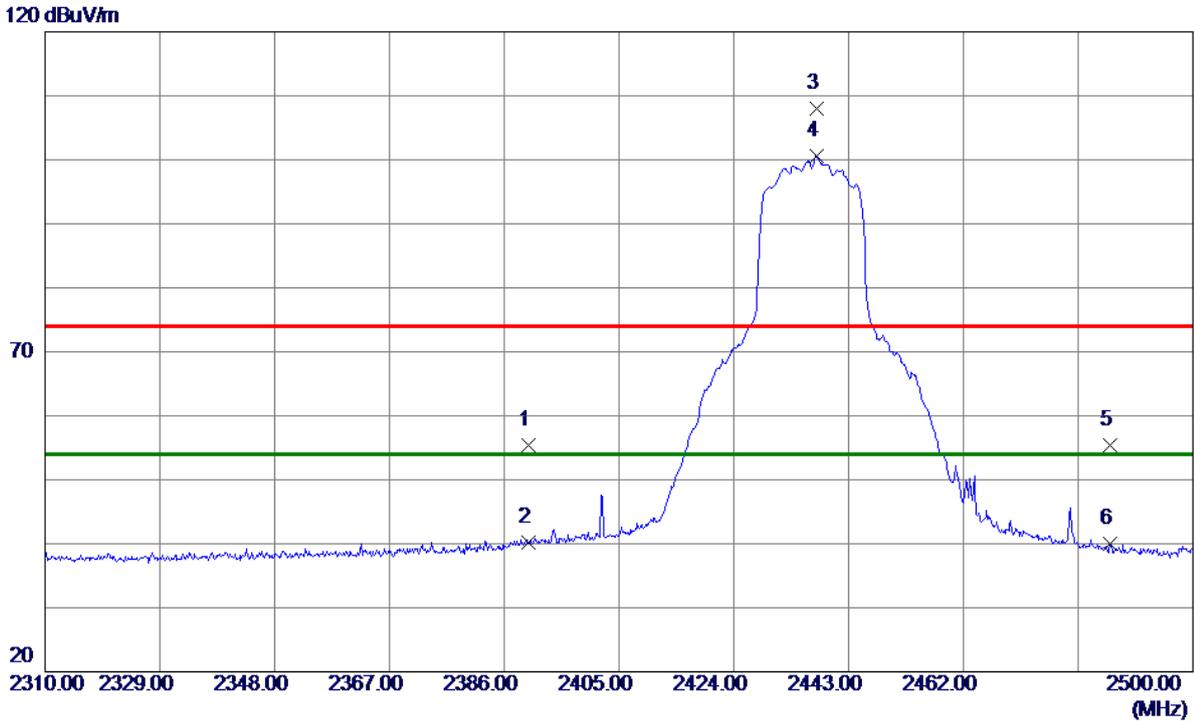


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4870.9000	61.55	-16.91	44.64	74.00	-29.36	Peak	
2	7498.6750	57.25	-12.81	44.44	74.00	-29.56	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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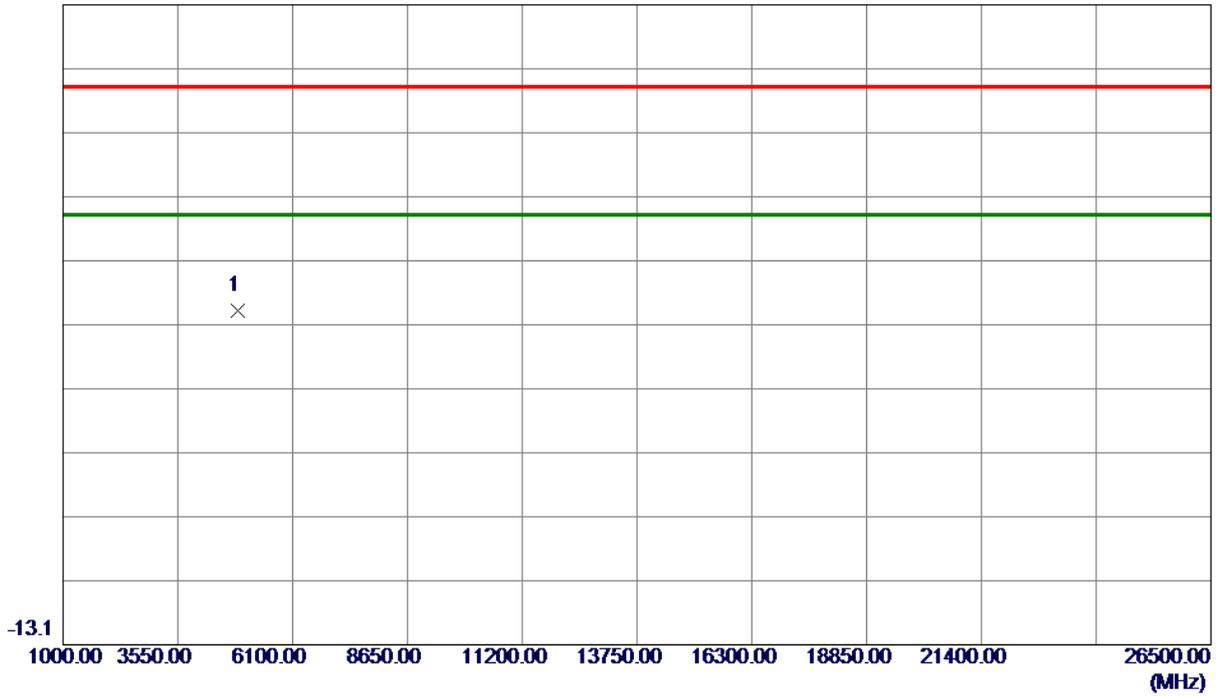
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.62	31.74	55.36	74.00	-18.64	Peak	
2	2390.0000	8.51	31.74	40.25	54.00	-13.75	AVG	
3	2437.6800	76.22	31.72	107.94	74.00	33.94	Peak	No limit
4 *	2437.6800	68.87	31.72	100.59	54.00	46.59	AVG	No limit
5	2486.3200	23.70	31.71	55.41	74.00	-18.59	Peak	
6	2486.3200	8.25	31.71	39.96	54.00	-14.04	AVG	

**REMARKS:**

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

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

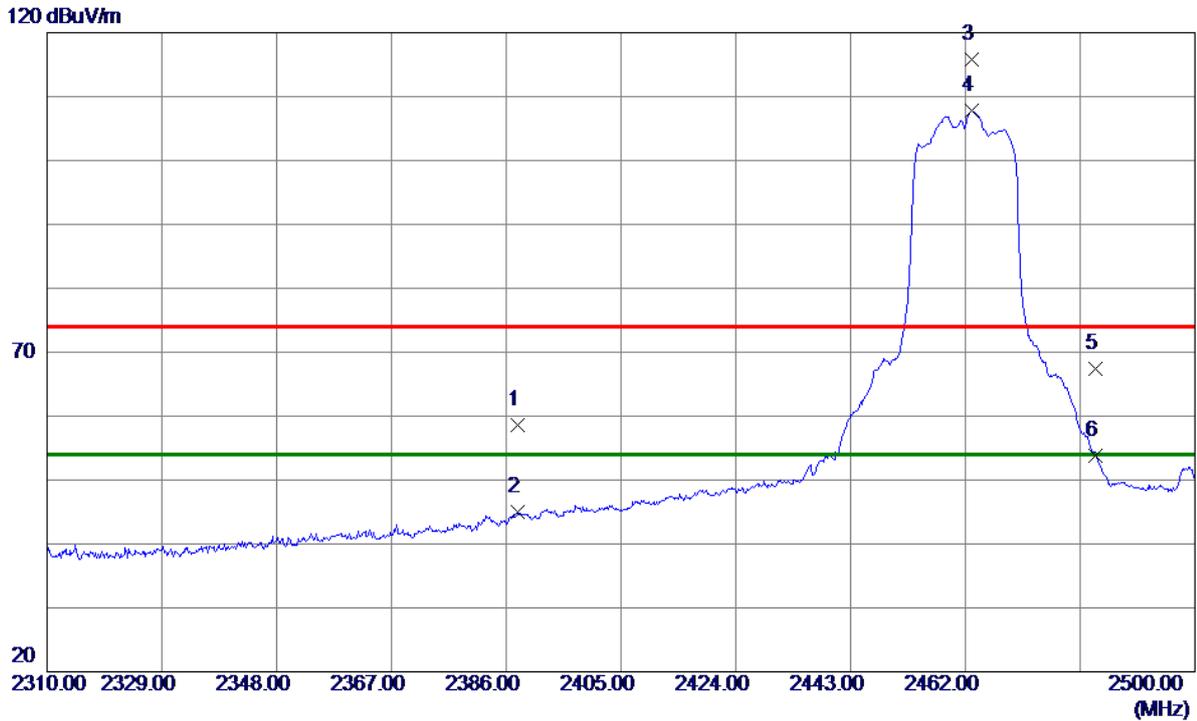


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4879.8250	55.98	-16.90	39.08	74.00	-34.92	Peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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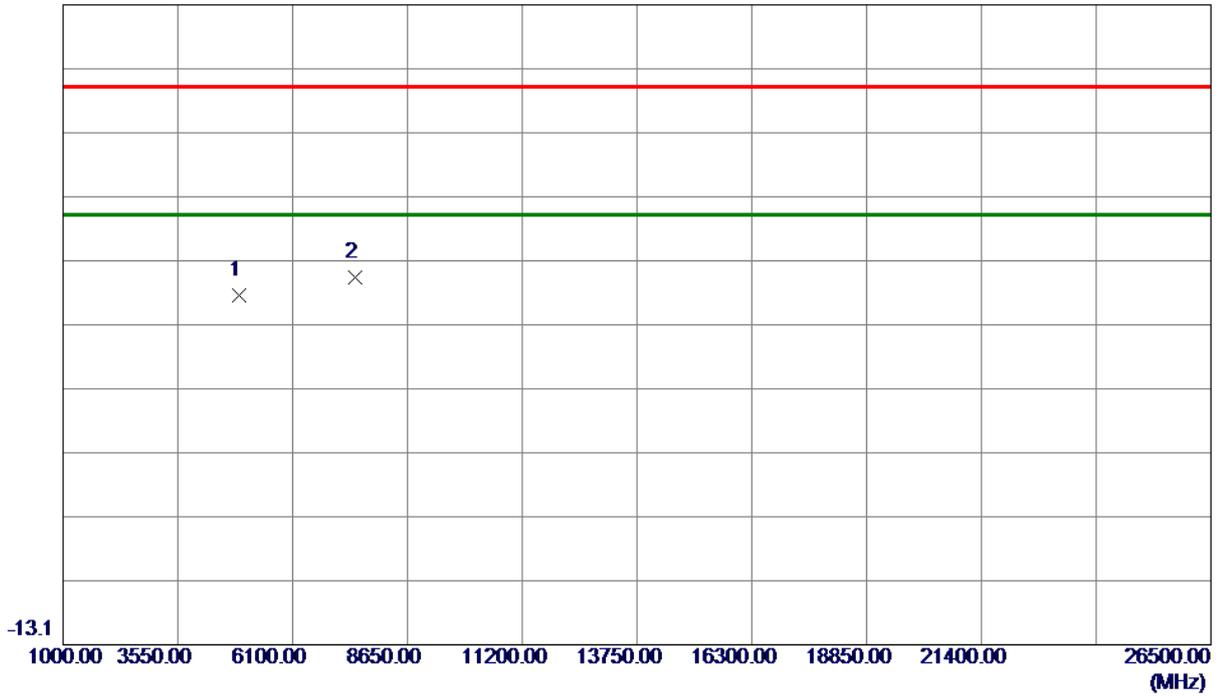
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.9000	26.89	31.74	58.63	74.00	-15.37	Peak	
2	2387.9000	13.33	31.74	45.07	54.00	-8.93	AVG	
3	2463.1399	84.04	31.71	115.75	74.00	41.75	Peak	No limit
4 *	2463.1399	76.01	31.71	107.72	54.00	53.72	AVG	No limit
5	2483.5000	35.63	31.71	67.34	74.00	-6.66	Peak	
6	2483.5000	22.15	31.71	53.86	54.00	-0.14	AVG	

**REMARKS:**

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

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

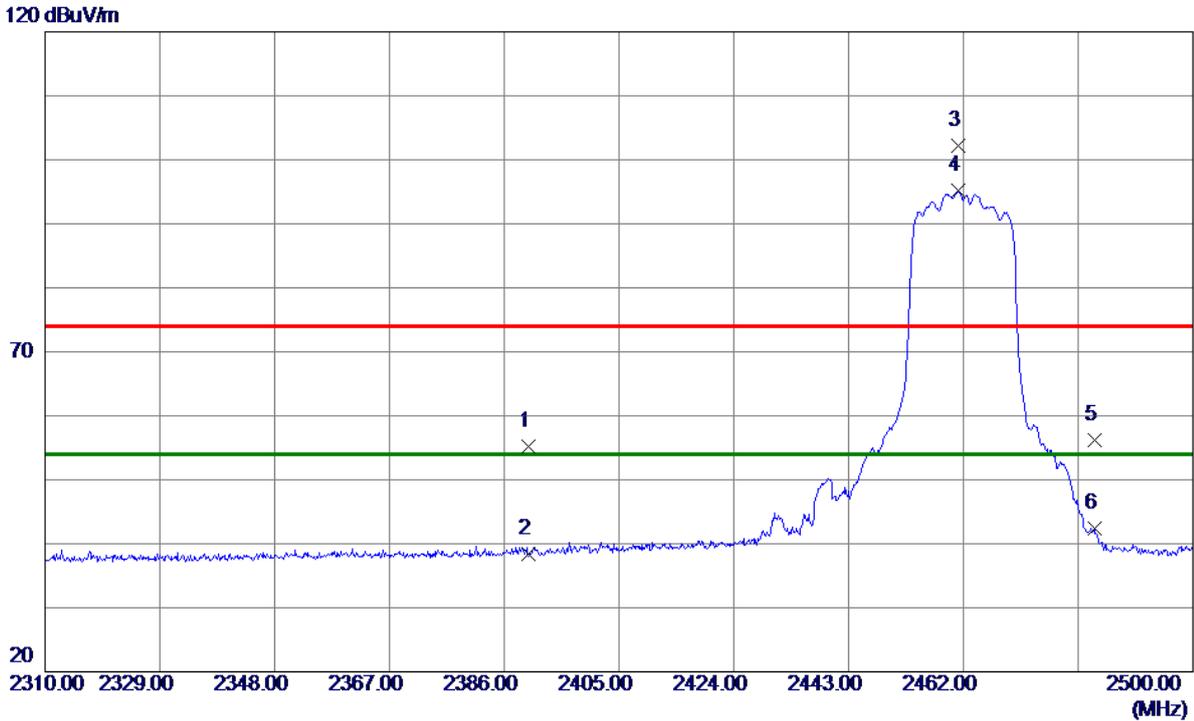


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.9000	58.35	-16.78	41.57	74.00	-32.43	Peak	
2 *	7498.6750	57.08	-12.81	44.27	74.00	-29.73	Peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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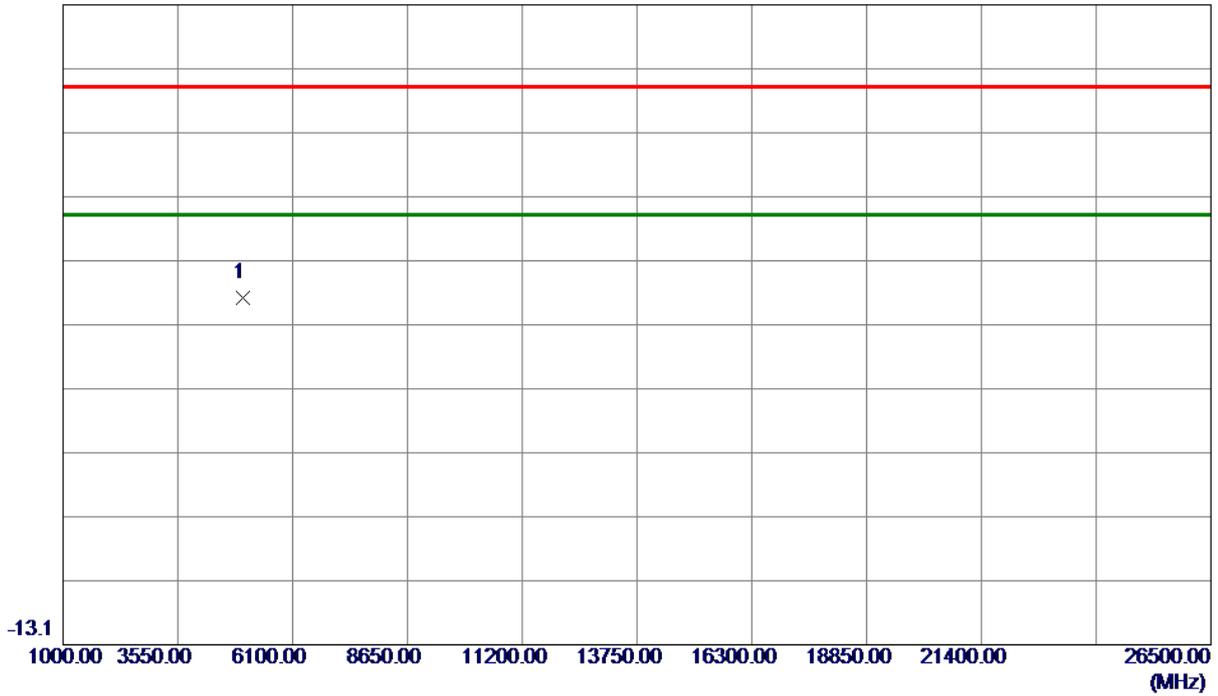
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.51	31.74	55.25	74.00	-18.75	Peak	
2	2390.0000	6.66	31.74	38.40	54.00	-15.60	AVG	
3	2461.1450	70.43	31.71	102.14	74.00	28.14	Peak	No limit
4 *	2461.1450	63.41	31.71	95.12	54.00	41.12	AVG	No limit
5	2483.6600	24.53	31.71	56.24	74.00	-17.76	Peak	
6	2483.6600	10.62	31.71	42.33	54.00	-11.67	AVG	

**REMARKS:**

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

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

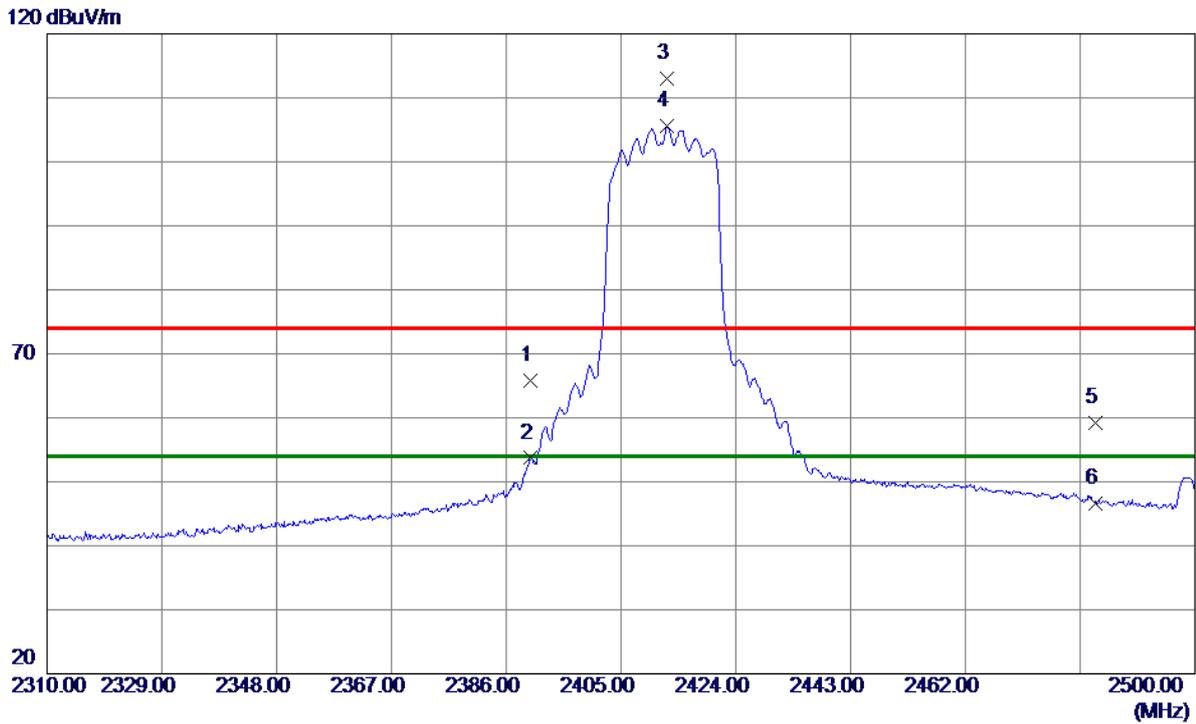


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4995.8500	57.60	-16.50	41.10	74.00	-32.90	Peak	

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	34.13	31.74	65.87	74.00	-8.13	Peak	
2	2390.0000	21.96	31.74	53.70	54.00	-0.30	AVG	
3	2412.6000	81.35	31.72	113.07	74.00	39.07	Peak	No limit
4 *	2412.6000	73.92	31.72	105.64	54.00	51.64	AVG	No limit
5	2483.5000	27.46	31.71	59.17	74.00	-14.83	Peak	
6	2483.5000	14.95	31.71	46.66	54.00	-7.34	AVG	

**REMARKS:**

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

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



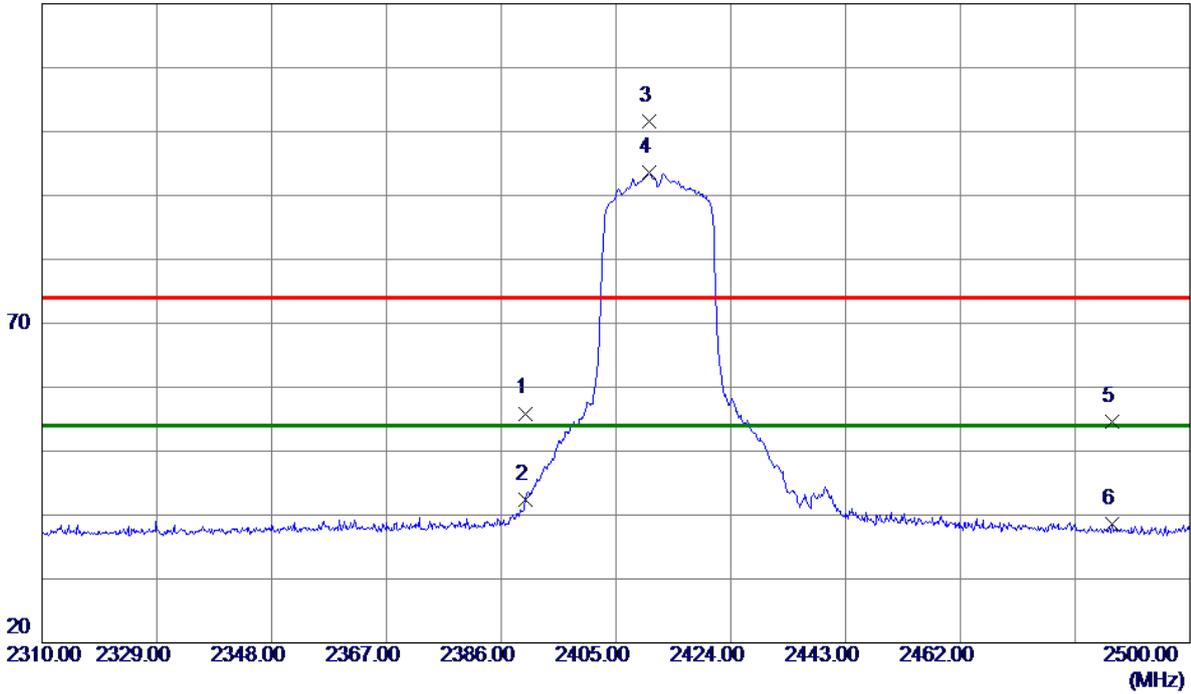
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	60.44	-16.98	43.46	74.00	-30.54	Peak	
2 *	7497.4000	56.69	-12.81	43.88	74.00	-30.12	Peak	

**REMARKS:**

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

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



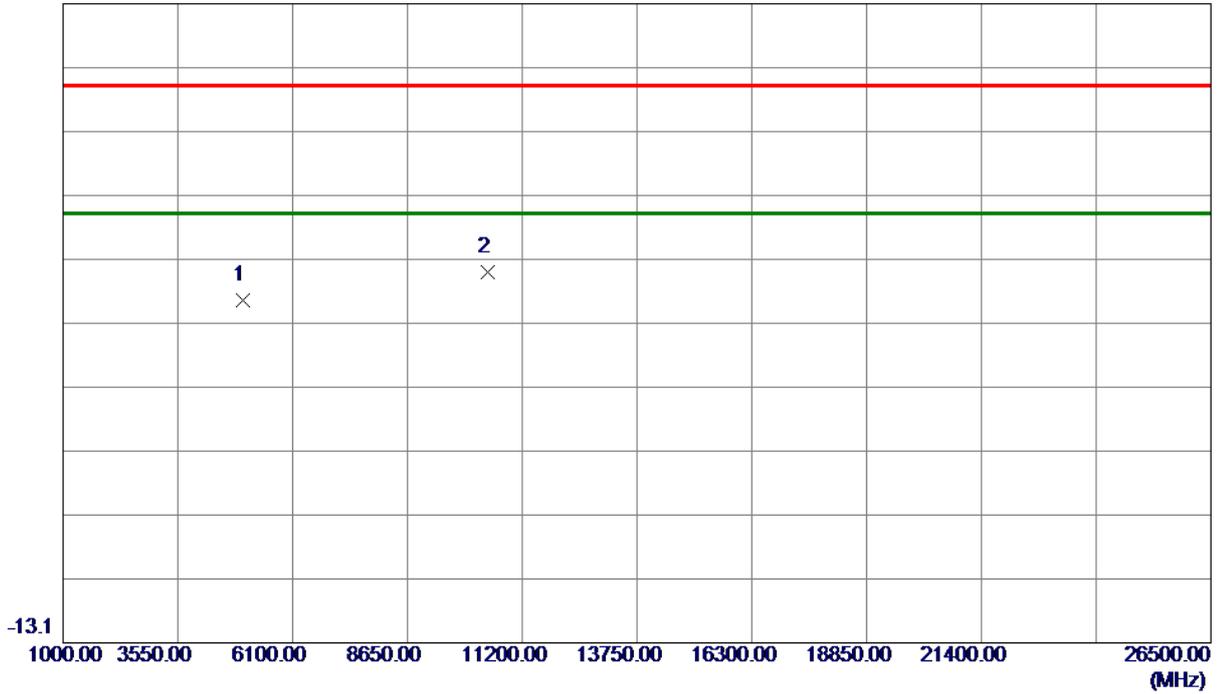
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.16	31.74	55.90	74.00	-18.10	Peak	
2	2390.0000	10.65	31.74	42.39	54.00	-11.61	AVG	
3	2410.5100	69.92	31.72	101.64	74.00	27.64	Peak	No limit
4 *	2410.5100	61.88	31.72	93.60	54.00	39.60	AVG	No limit
5	2487.1750	22.87	31.71	54.58	74.00	-19.42	Peak	
6	2487.1750	6.87	31.71	38.58	54.00	-15.42	AVG	

REMARKS:

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

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

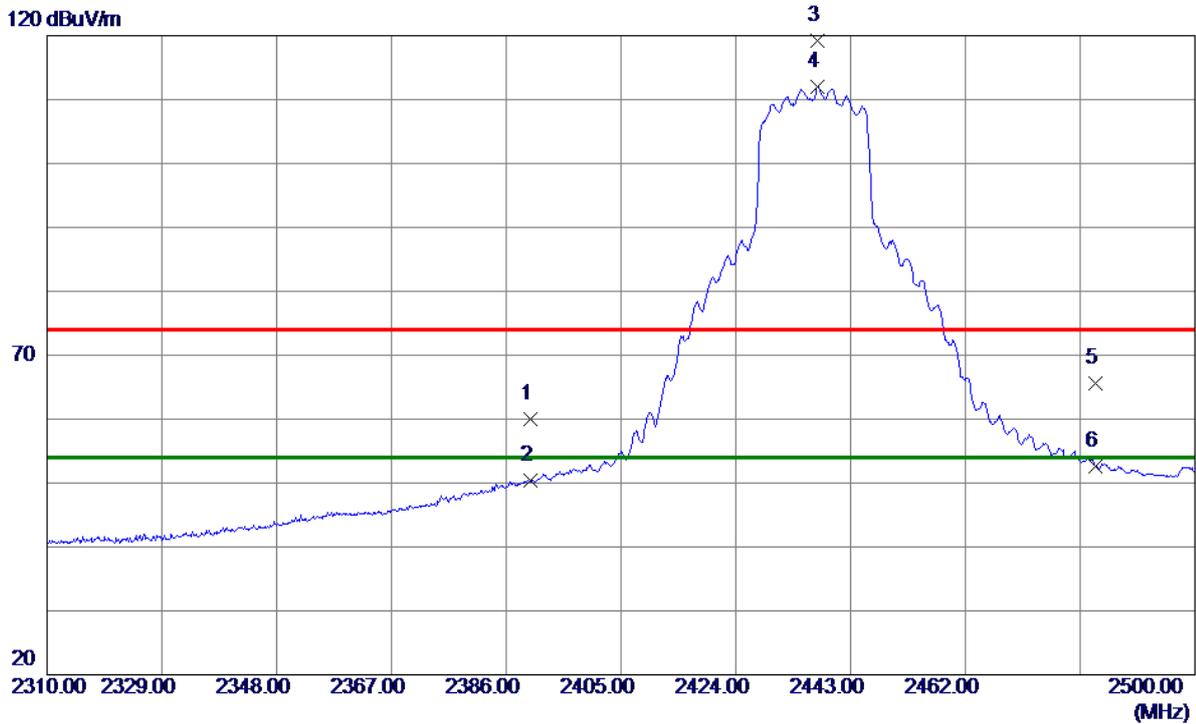


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4995.8500	57.00	-16.50	40.50	74.00	-33.50	Peak	
2 *	10429.9000	54.40	-9.56	44.84	74.00	-29.16	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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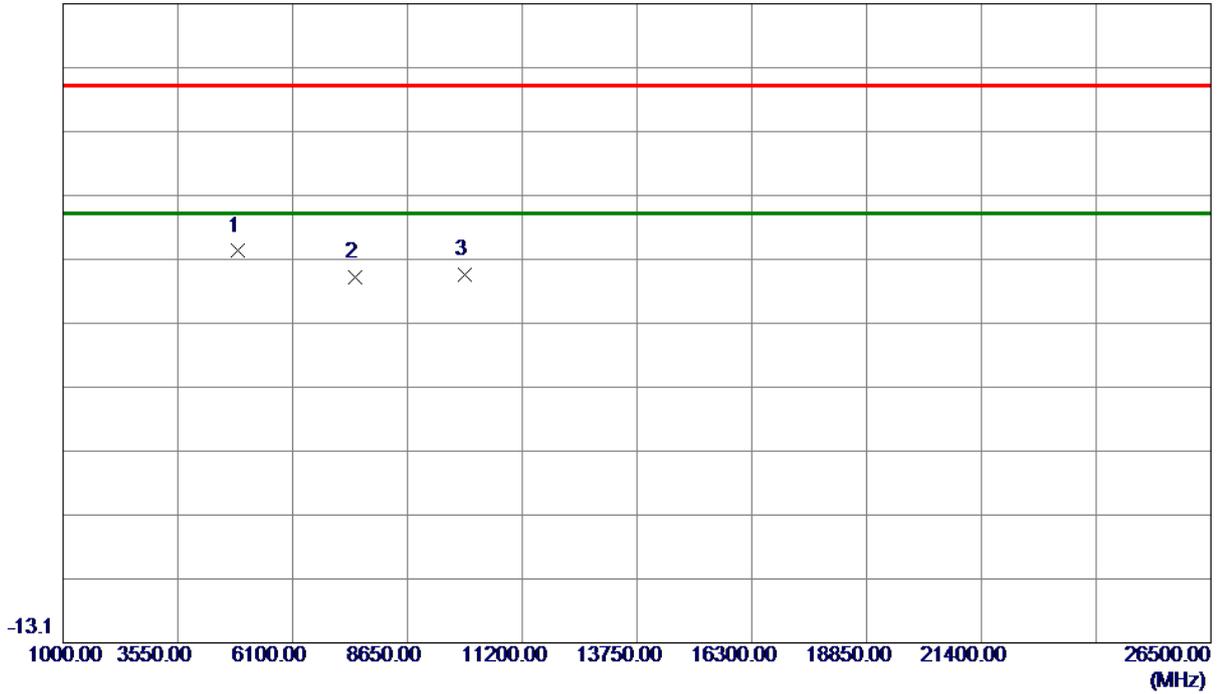
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.23	31.74	59.97	74.00	-14.03	Peak	
2	2390.0000	18.68	31.74	50.42	54.00	-3.58	AVG	
3	2437.4900	87.56	31.72	119.28	74.00	45.28	Peak	No limit
4 *	2437.4900	80.29	31.72	112.01	54.00	58.01	AVG	No limit
5	2483.5000	33.93	31.71	65.64	74.00	-8.36	Peak	
6	2483.5000	20.87	31.71	52.58	54.00	-1.42	AVG	

**REMARKS:**

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

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

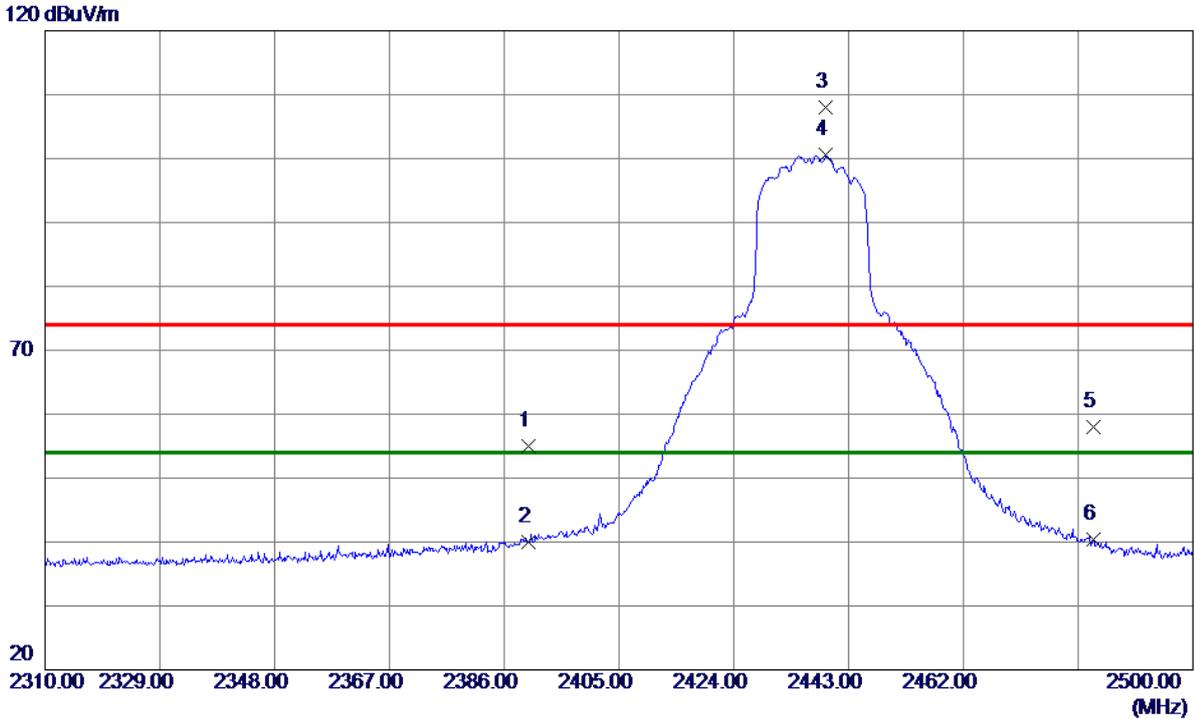


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4877.2750	65.10	-16.90	48.20	74.00	-25.80	Peak	
2	7497.4000	57.00	-12.81	44.19	74.00	-29.81	Peak	
3	9937.7500	54.65	-10.22	44.43	74.00	-29.57	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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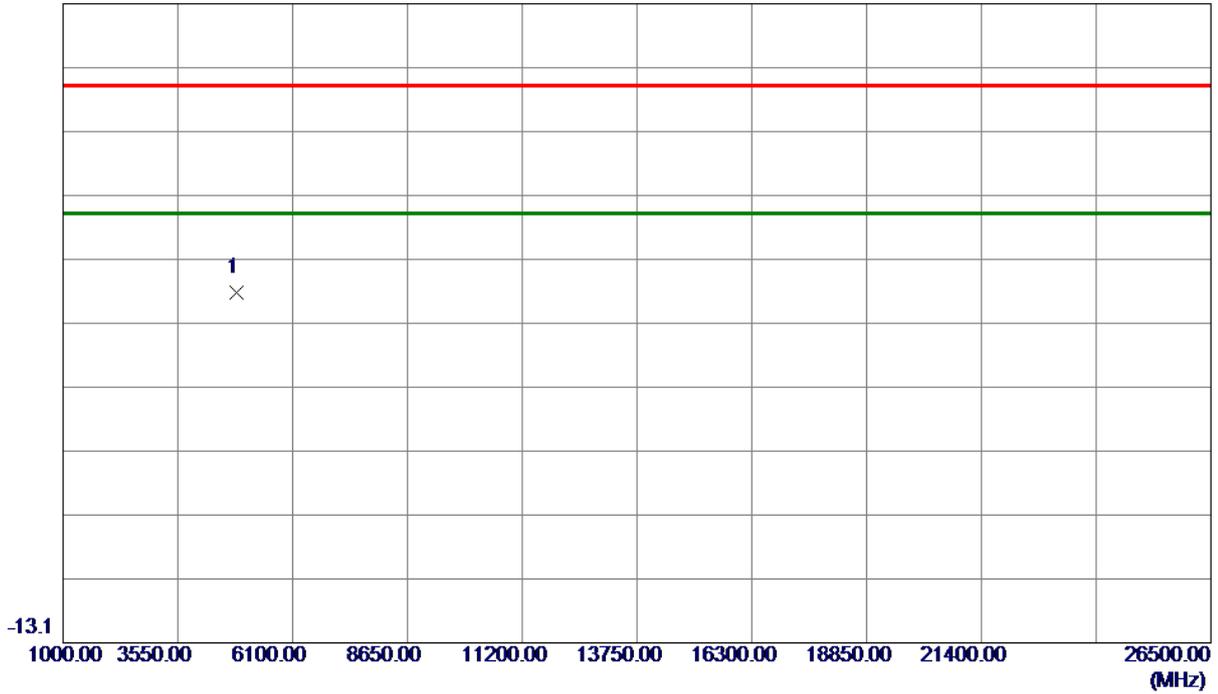
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.21	31.74	54.95	74.00	-19.05	Peak	
2	2390.0000	8.33	31.74	40.07	54.00	-13.93	AVG	
3	2439.2950	76.33	31.72	108.05	74.00	34.05	Peak	No limit
4 *	2439.2950	68.91	31.72	100.63	54.00	46.63	AVG	No limit
5	2483.5000	26.21	31.71	57.92	74.00	-16.08	Peak	
6	2483.5000	8.66	31.71	40.37	54.00	-13.63	AVG	

**REMARKS:**

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

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

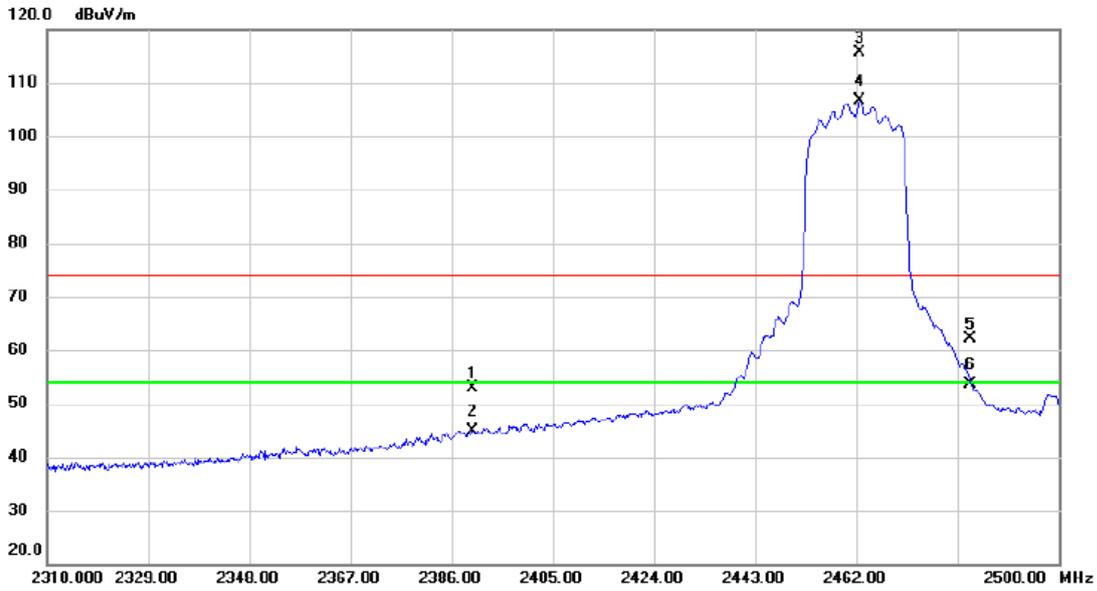


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4867.0750	58.68	-16.92	41.76	74.00	-32.24	Peak	

**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		2390.000	21.16	31.74	52.90	74.00	-21.10	peak	
2		2390.000	13.21	31.74	44.95	54.00	-9.05	AVG	
3	X	2462.665	83.82	31.72	115.54	74.00	41.54	peak	No limit
4	*	2462.665	74.89	31.72	106.61	54.00	52.61	AVG	No limit
5		2483.500	30.45	31.72	62.17	74.00	-11.83	peak	
6		2483.500	22.03	31.72	53.75	54.00	-0.25	AVG	

**REMARKS:**

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

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



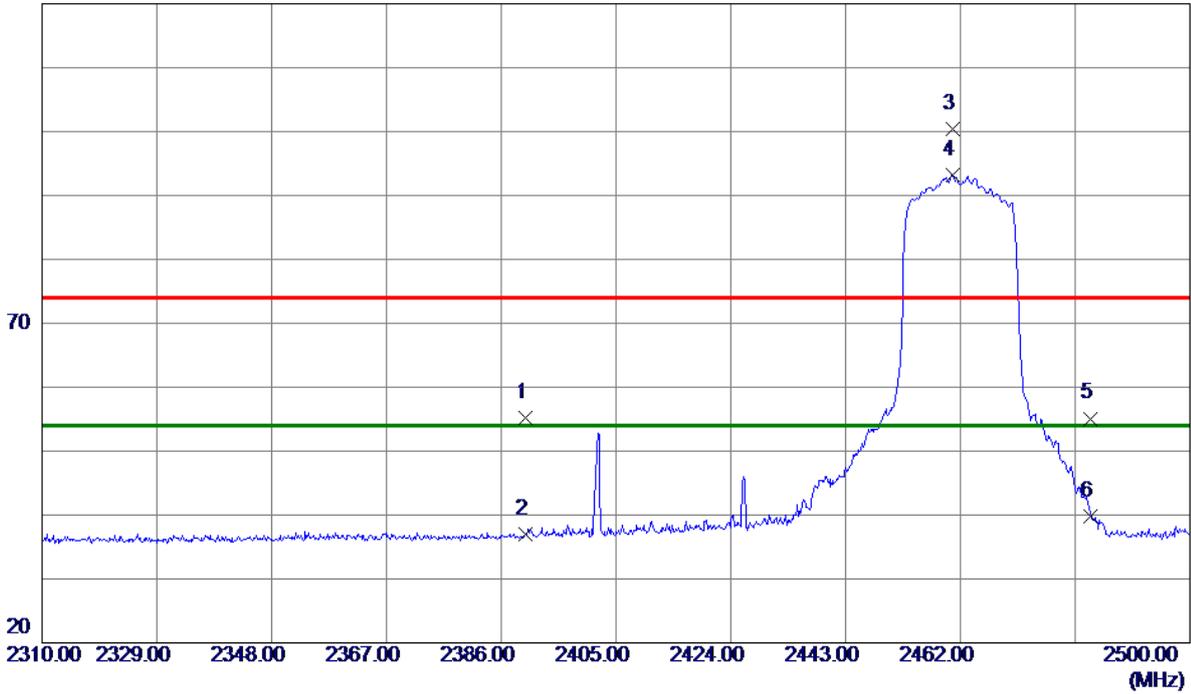
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4500	58.83	-16.77	42.06	74.00	-31.94	Peak	
2 *	7499.9500	56.14	-12.82	43.32	74.00	-30.68	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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120 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	23.49	31.74	55.23	74.00	-18.77	Peak	
2	2390.0000	5.19	31.74	36.93	54.00	-17.07	AVG	
3	2460.7649	68.67	31.71	100.38	74.00	26.38	Peak	No limit
4 *	2460.7649	61.54	31.71	93.25	54.00	39.25	AVG	No limit
5	2483.5000	23.39	31.71	55.10	74.00	-18.90	Peak	
6	2483.5000	8.16	31.71	39.87	54.00	-14.13	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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86.9 dBuV/m

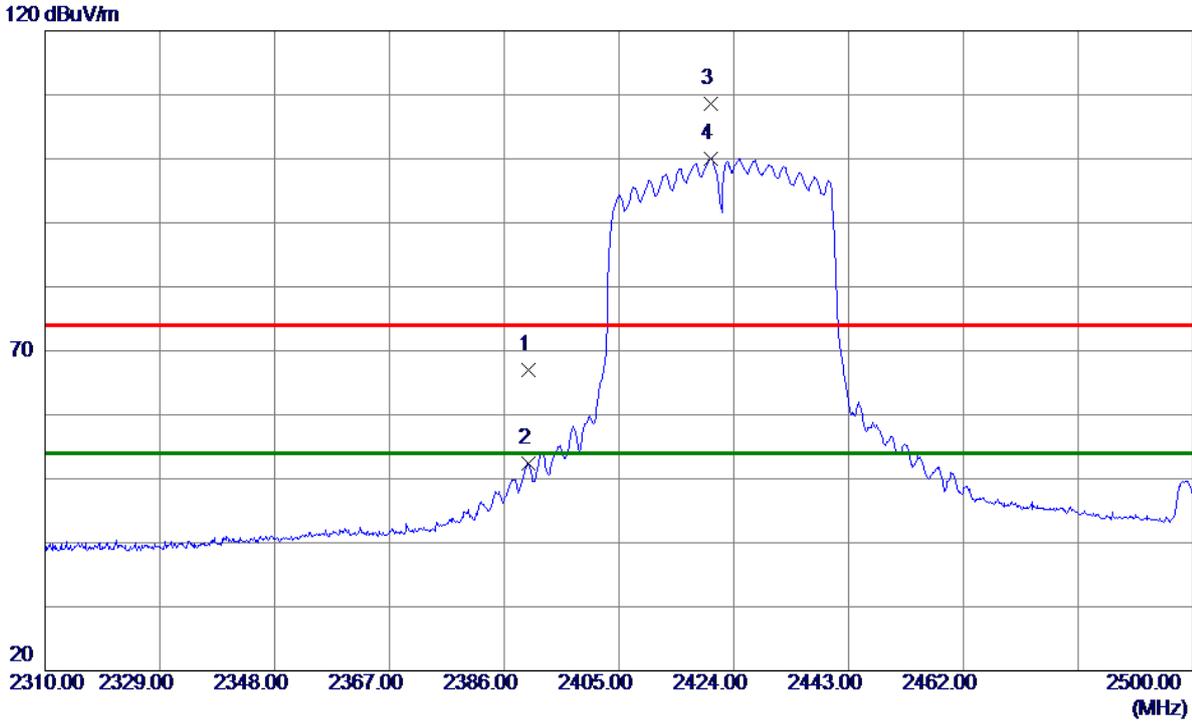


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4998.4000	57.58	-16.49	41.09	74.00	-32.91	Peak	
2 *	7663.1500	55.13	-12.84	42.29	74.00	-31.71	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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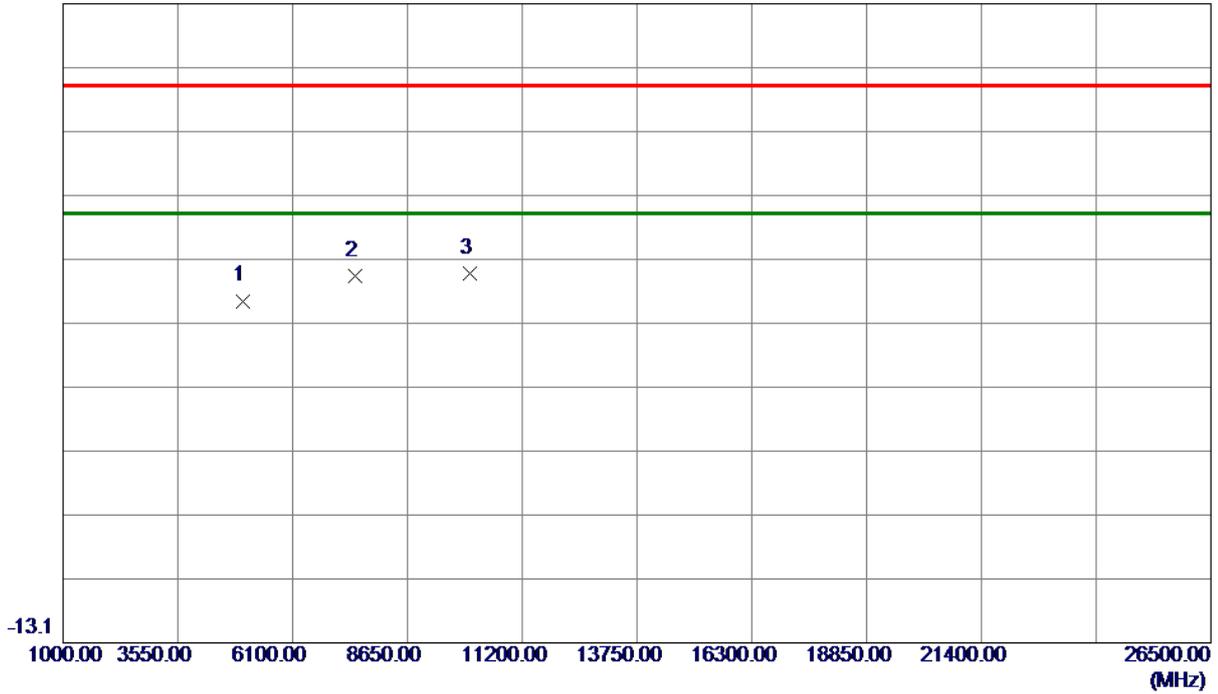
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.28	31.74	67.02	74.00	-6.98	Peak	
2	2390.0000	20.64	31.74	52.38	54.00	-1.62	AVG	
3	2420.1050	76.86	31.72	108.58	74.00	34.58	Peak	No limit
4 *	2420.1050	68.32	31.72	100.04	54.00	46.04	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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86.9 dBuV/m

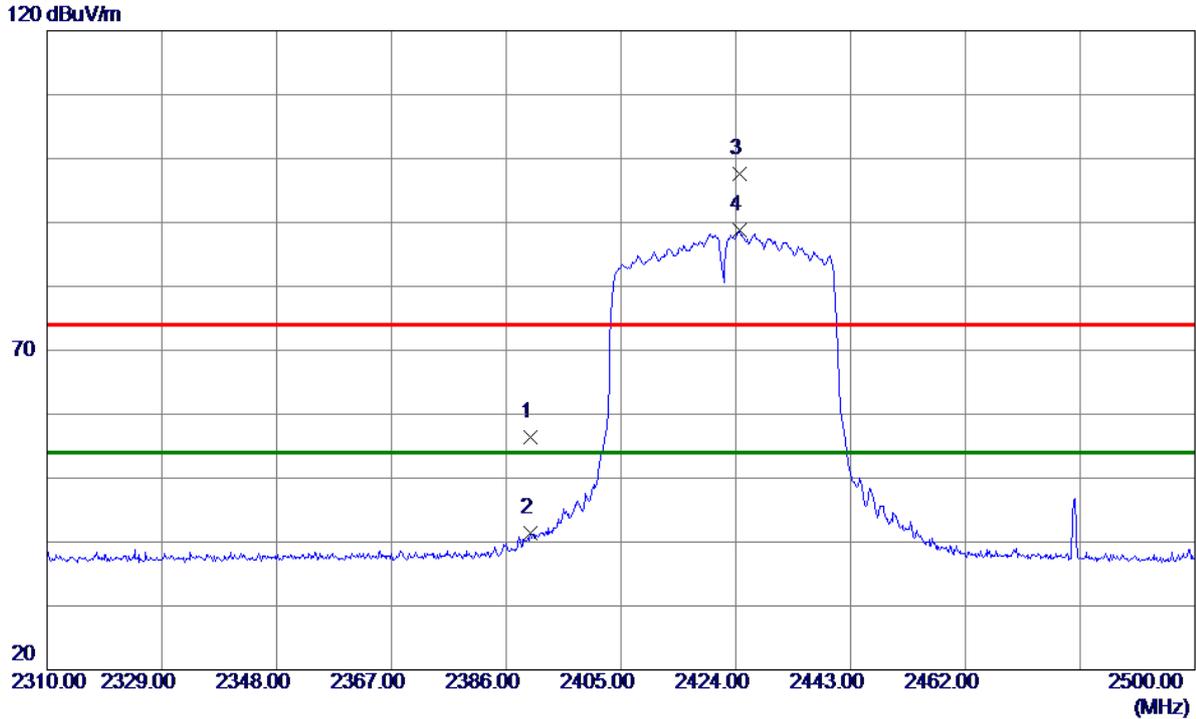


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4997.1250	56.89	-16.49	40.40	74.00	-33.60	Peak	
2	7498.6750	57.18	-12.81	44.37	74.00	-29.63	Peak	
3 *	10033.3750	55.04	-10.24	44.80	74.00	-29.20	Peak	

REMARKS:

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

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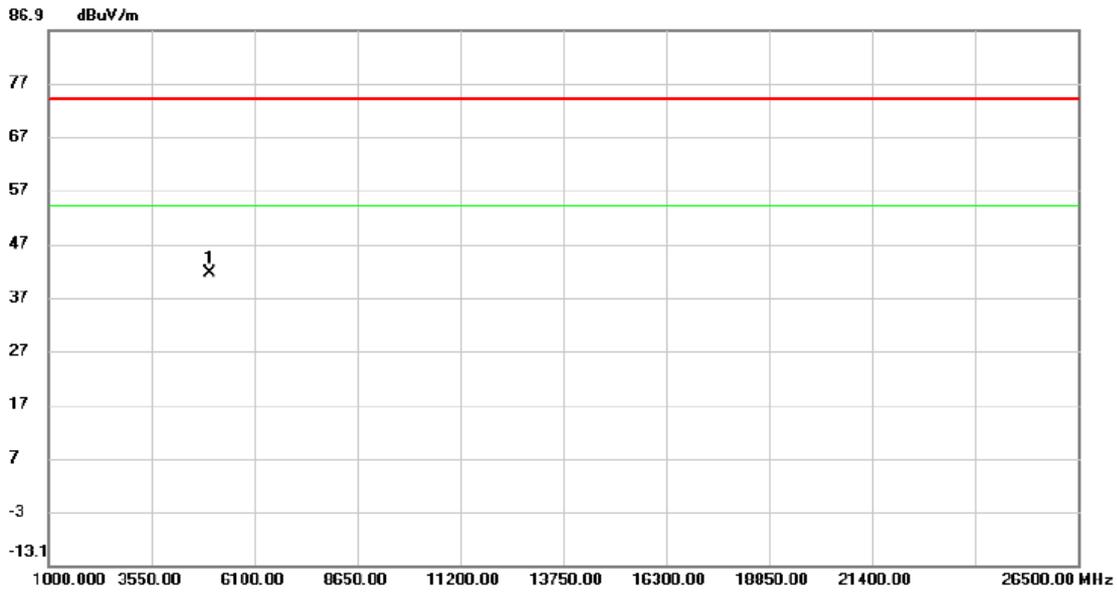


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.71	31.74	56.45	74.00	-17.55	Peak	
2	2390.0000	9.68	31.74	41.42	54.00	-12.58	AVG	
3	2424.6650	65.91	31.72	97.63	74.00	23.63	Peak	No limit
4 *	2424.6650	57.06	31.72	88.78	54.00	34.78	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
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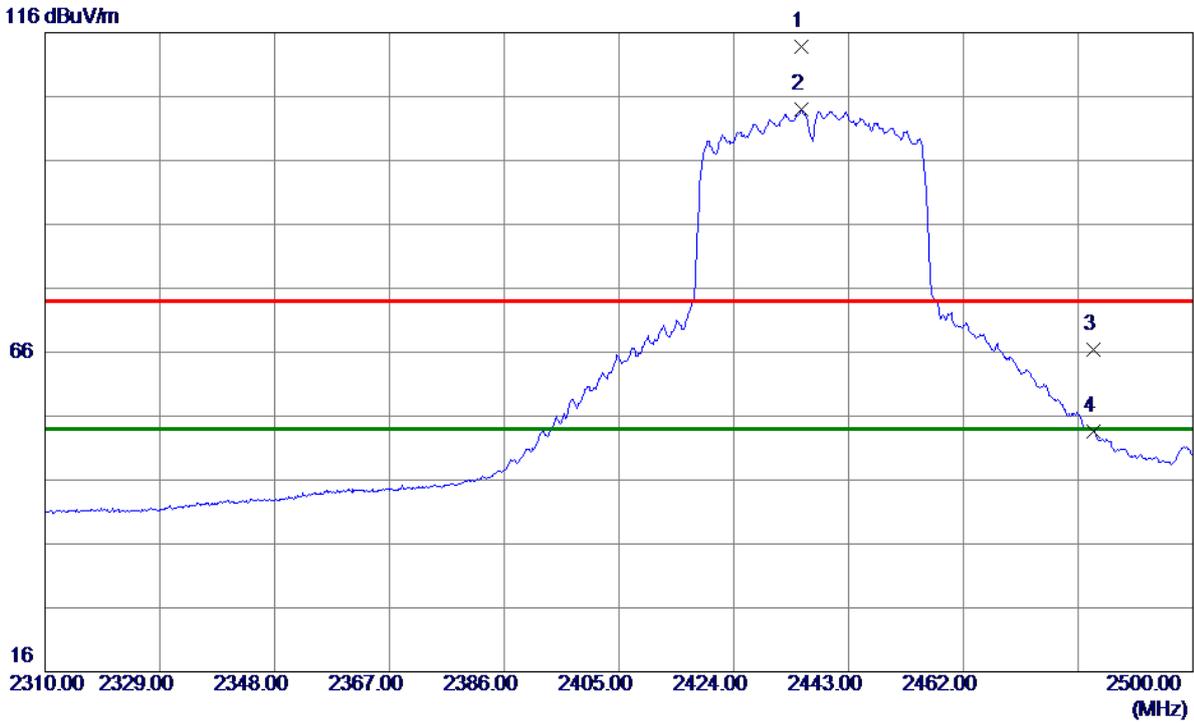


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4998.400	57.91	-16.48	41.43	74.00	-32.57	peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.1150	113.63	0.07	113.70	74.00	39.70	Peak	No limit
2 *	2435.1150	103.86	0.07	103.93	54.00	49.93	AVG	No limit
3	2483.5000	66.27	0.06	66.33	74.00	-7.67	Peak	
4	2483.5000	53.51	0.06	53.57	54.00	-0.43	AVG	

**REMARKS:**

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

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



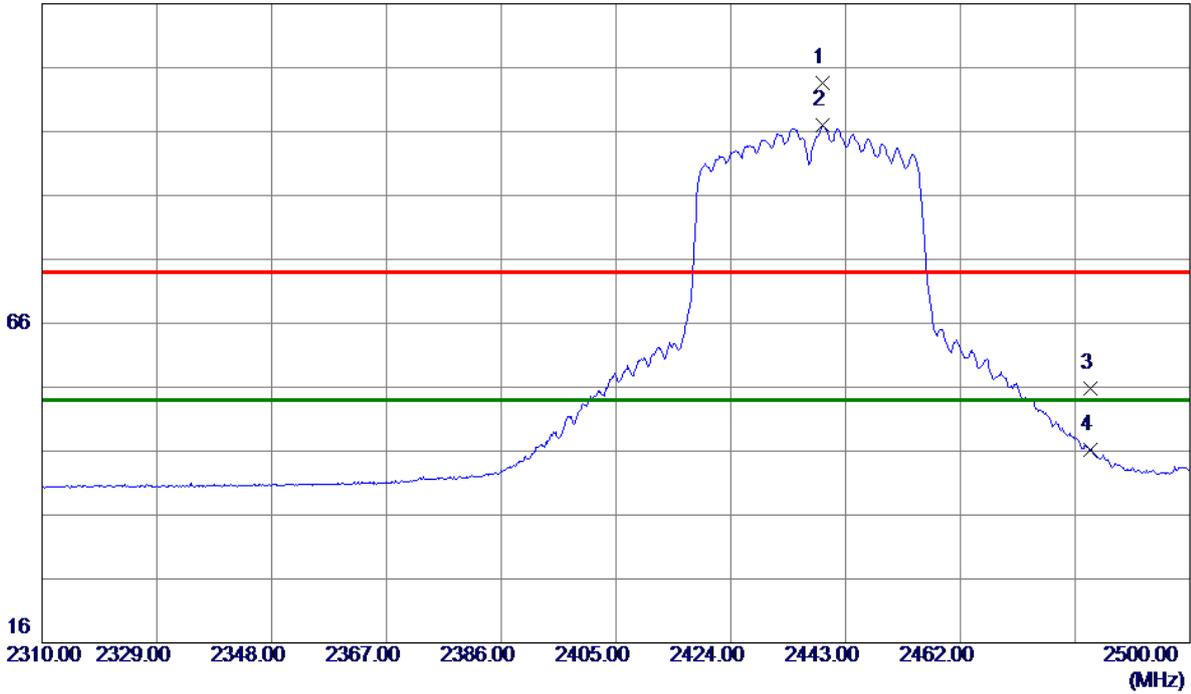
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4998.4000	57.68	-16.49	41.19	74.00	-32.81	Peak	
2 *	7499.9500	56.88	-12.82	44.06	74.00	-29.94	Peak	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.1050	103.59	0.07	103.66	74.00	29.66	Peak	No limit
2 *	2439.1050	96.91	0.07	96.98	54.00	42.98	AVG	No limit
3	2483.5000	55.75	0.06	55.81	74.00	-18.19	Peak	
4	2483.5000	46.06	0.06	46.12	54.00	-7.88	AVG	

REMARKS:

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

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

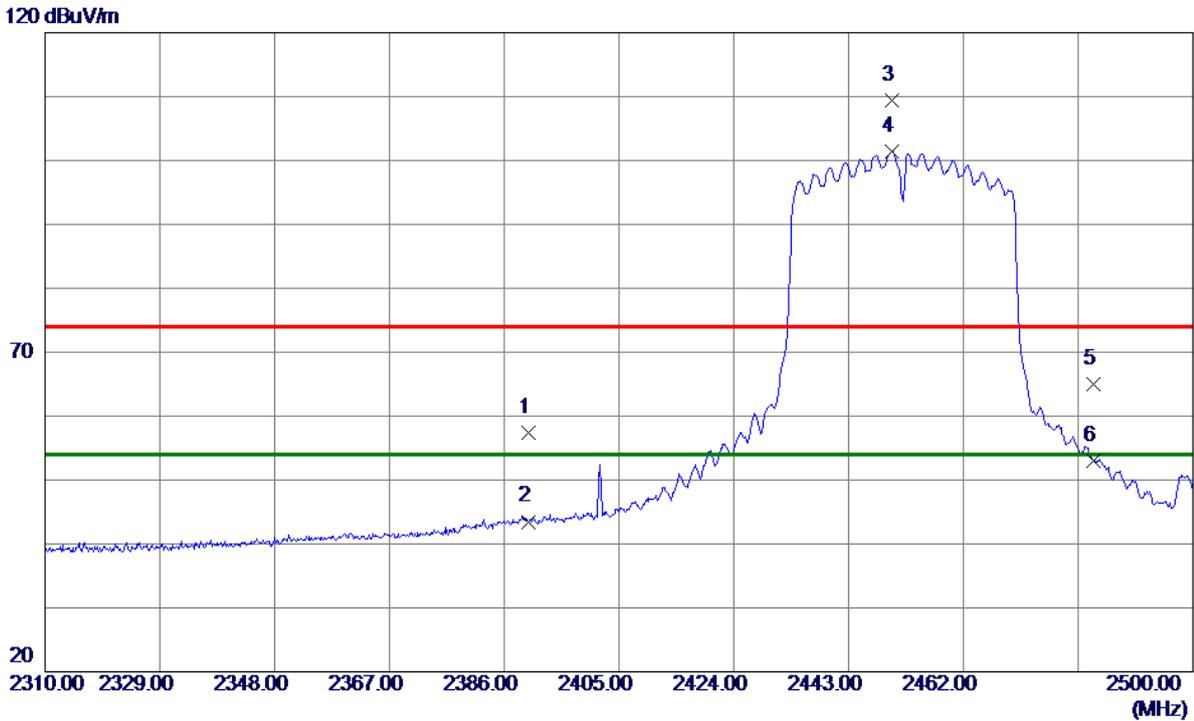


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4998.4000	56.82	-16.49	40.33	74.00	-33.67	Peak	
2 *	6663.5500	55.51	-14.48	41.03	74.00	-32.97	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.60	31.74	57.34	74.00	-16.66	Peak	
2	2390.0000	11.76	31.74	43.50	54.00	-10.50	AVG	
3	2450.2200	77.68	31.71	109.39	74.00	35.39	Peak	No limit
4 *	2450.2200	69.77	31.71	101.48	54.00	47.48	AVG	No limit
5	2483.5000	33.20	31.71	64.91	74.00	-9.09	Peak	
6	2483.5000	21.22	31.71	52.93	54.00	-1.07	AVG	

**REMARKS:**

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

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



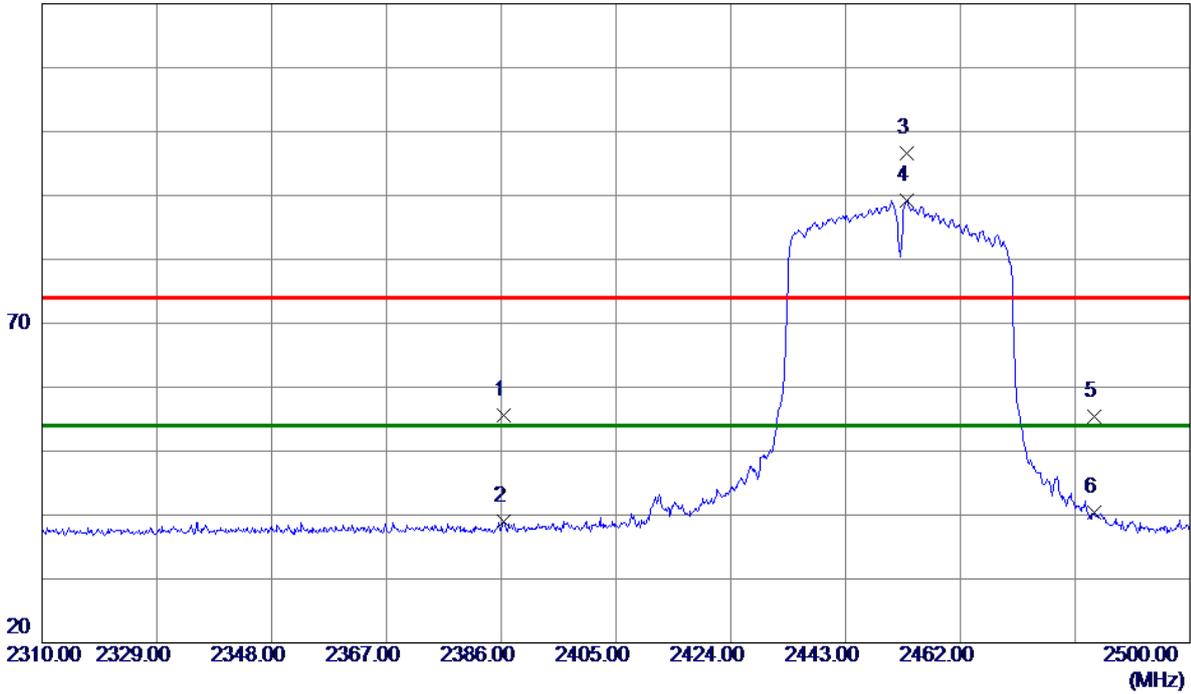
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4998.4000	56.04	-16.49	39.55	74.00	-34.45	Peak	
2 *	7498.6750	57.07	-12.81	44.26	74.00	-29.74	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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120 dBuV/m



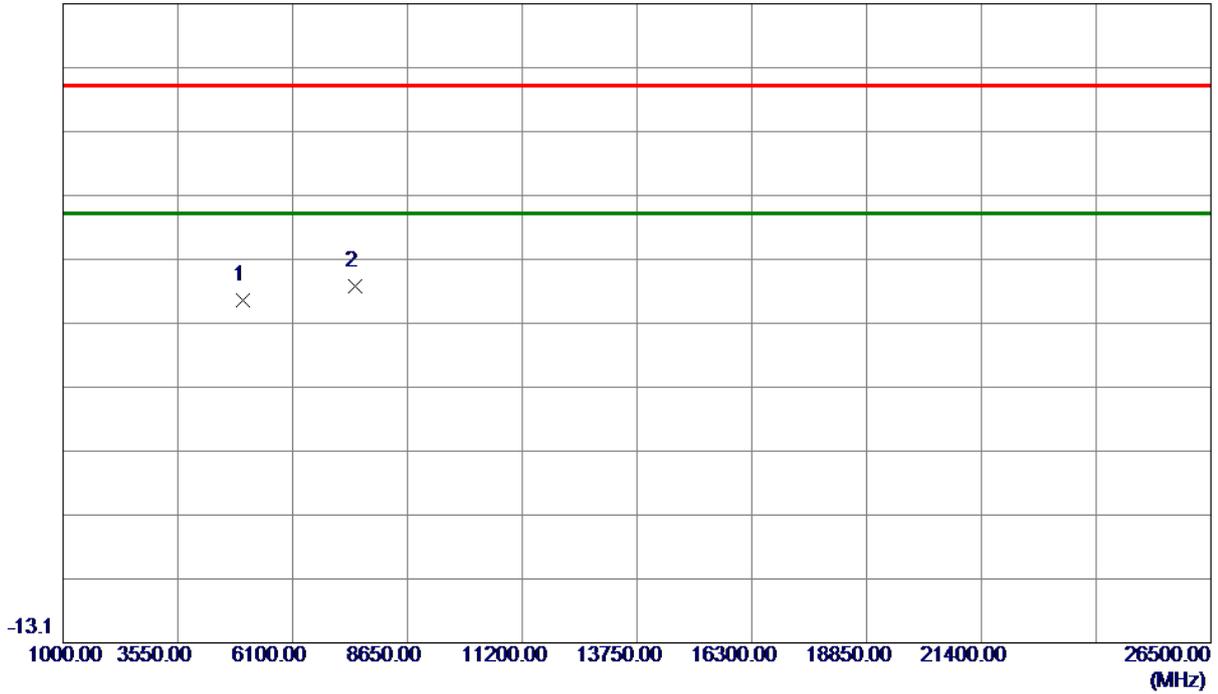
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.3799	23.83	31.75	55.58	74.00	-18.42	Peak	
2	2386.3799	7.16	31.75	38.91	54.00	-15.09	AVG	
3	2453.1650	64.90	31.71	96.61	74.00	22.61	Peak	No limit
4 *	2453.1650	57.54	31.71	89.25	54.00	35.25	AVG	No limit
5	2484.1350	23.65	31.71	55.36	74.00	-18.64	Peak	
6	2484.1350	8.76	31.71	40.47	54.00	-13.53	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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86.9 dBuV/m



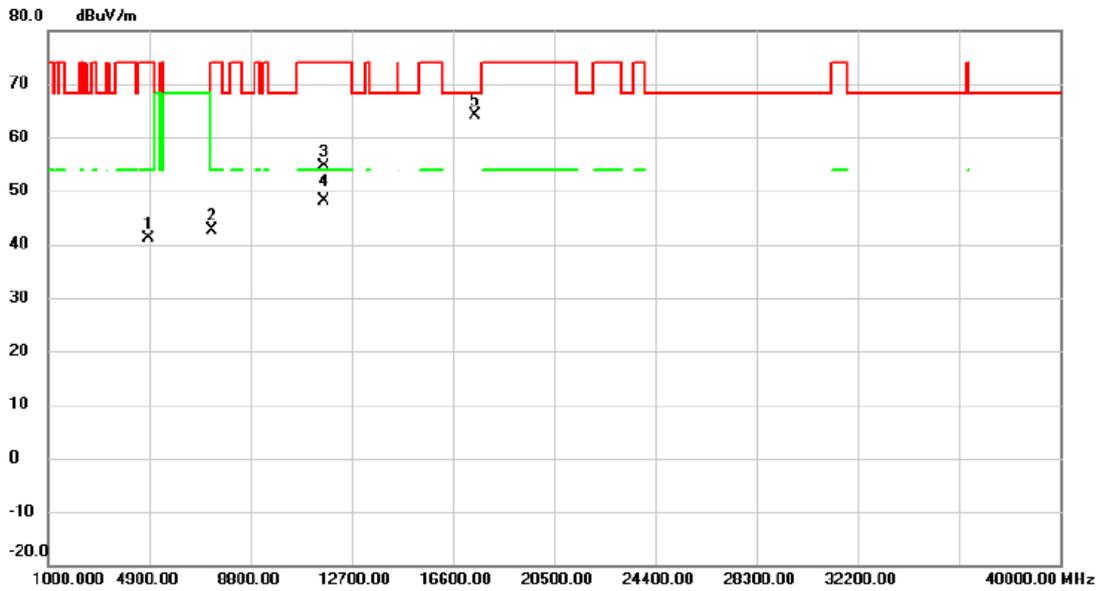
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4997.1250	56.99	-16.49	40.50	74.00	-33.50	Peak	
2 *	7493.5750	55.57	-12.81	42.76	74.00	-31.24	Peak	

**REMARKS:**

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

The worst case of simultaneous transmission:

Test Mode	TX WLAN 2.4G B Mode 2437MHz+ WLAN 5G A Mode 5825MHz	Polarization	Vertical
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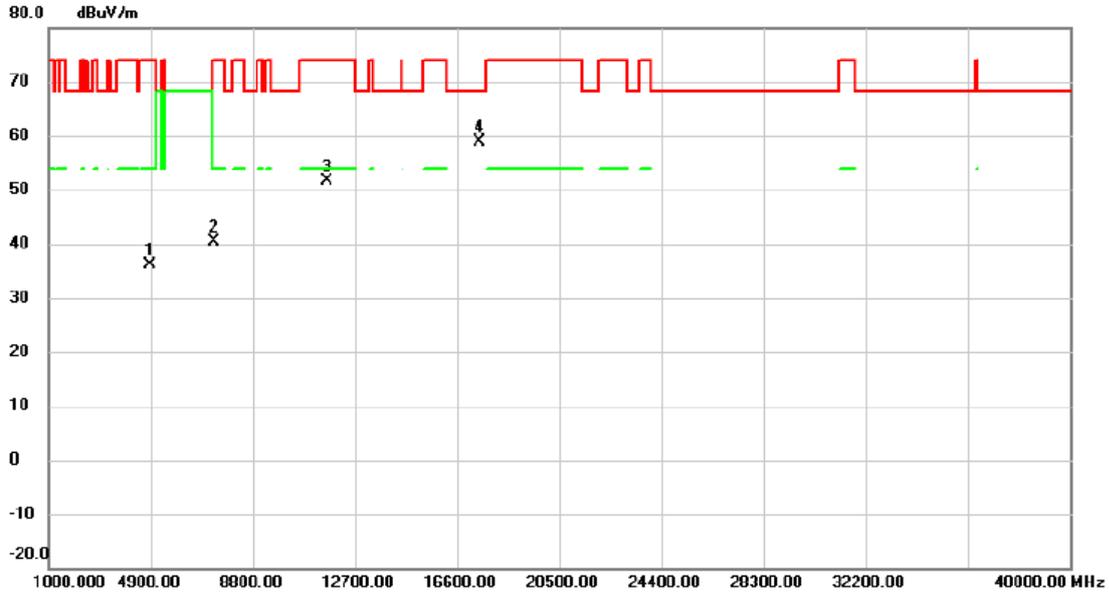


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.000	58.12	-16.90	41.22	74.00	-32.78	peak	
2	7311.000	55.47	-12.85	42.62	74.00	-31.38	peak	
3	11647.00	62.84	-8.24	54.60	74.00	-19.40	peak	
4	11647.00	56.27	-8.24	48.03	54.00	-5.97	AVG	
5 *	17479.45	66.25	-2.09	64.16	68.20	-4.04	peak	

**REMARKS:**

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

Test Mode	TX WLAN 2.4G B Mode 2437MHz+ WLAN 5G A Mode 5825MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	52.98	-16.90	36.08	74.00	-37.92	peak	
2		7311.000	53.35	-12.85	40.50	74.00	-33.50	peak	
3		11652.85	59.82	-8.26	51.56	74.00	-22.44	peak	
4	*	17483.35	60.93	-2.08	58.85	68.20	-9.35	peak	

**REMARKS:**

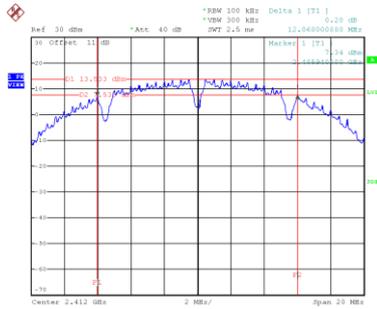
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## 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	12.060	23.120	0.5	Complies
06	2437	11.100	26.160	0.5	Complies
11	2462	12.060	26.080	0.5	Complies

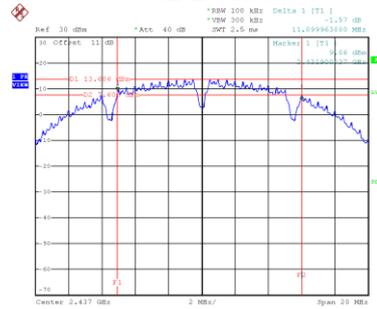
**CH01**



Date: 13\_AUG\_2021 12:41:28

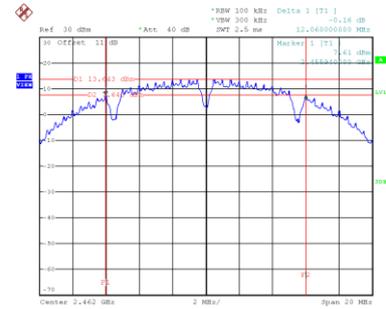
**CH06**

**6 dB Bandwidth**



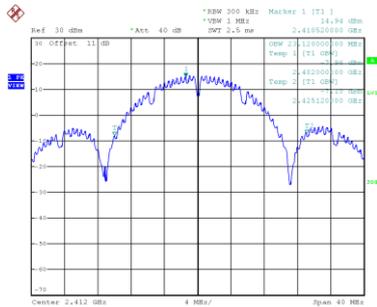
Date: 13\_AUG\_2021 13:28:17

**CH11**

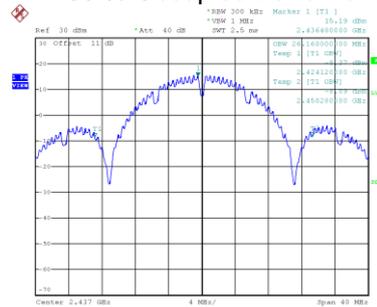


Date: 13\_AUG\_2021 13:49:21

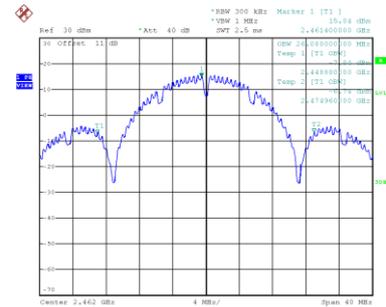
**99 % Occupied Bandwidth**



Date: 13\_AUG\_2021 12:41:35



Date: 13\_AUG\_2021 13:28:24

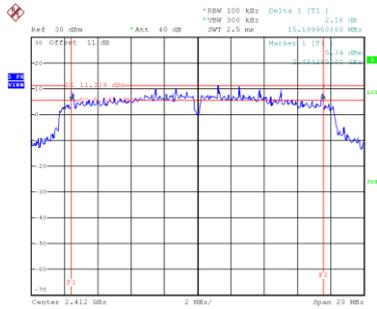


Date: 13\_AUG\_2021 13:49:28

Test Mode	TX G Mode
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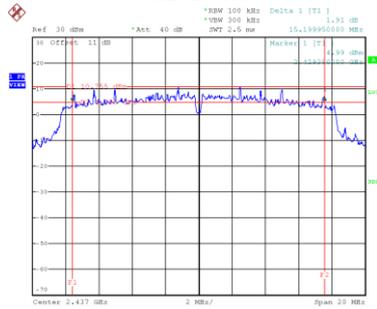
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.200	19.920	0.5	Complies
06	2437	15.200	19.920	0.5	Complies
11	2462	15.160	19.760	0.5	Complies

**CH01**



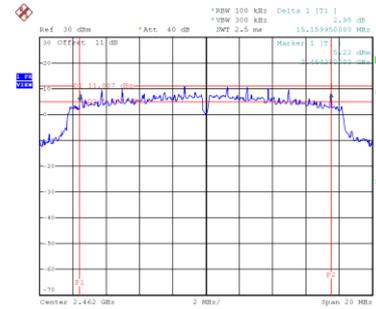
Date: 13\_AUG\_2021 13:54:30

**CH06**  
6 dB Bandwidth



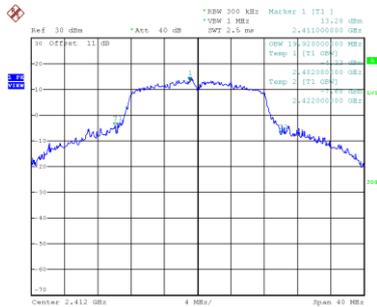
Date: 13\_AUG\_2021 13:58:19

**CH11**

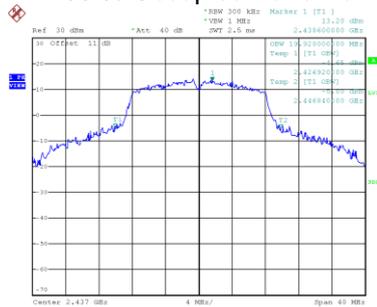


Date: 13\_AUG\_2021 14:05:23

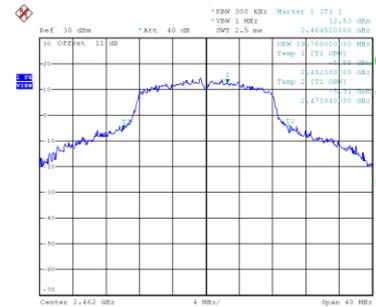
**99 % Occupied Bandwidth**



Date: 13\_AUG\_2021 13:54:36



Date: 13\_AUG\_2021 13:58:26

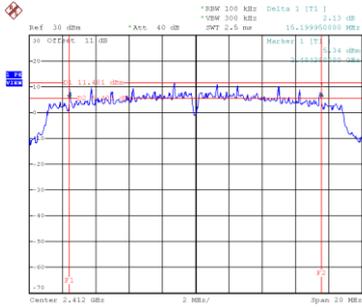


Date: 13\_AUG\_2021 14:05:30

Test Mode	TX N(HT20) Mode
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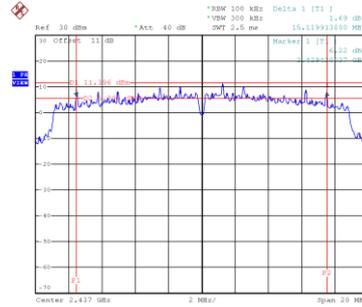
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.200	21.200	0.5	Complies
06	2437	15.120	20.880	0.5	Complies
11	2462	15.140	21.040	0.5	Complies

**CH01**



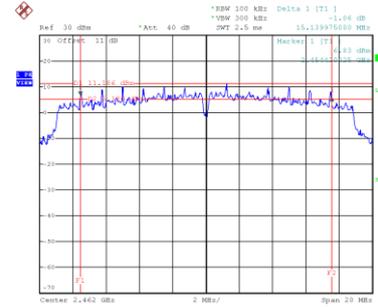
Date: 13\_AUG\_2021 14:07:55

**CH06**  
6 dB Bandwidth



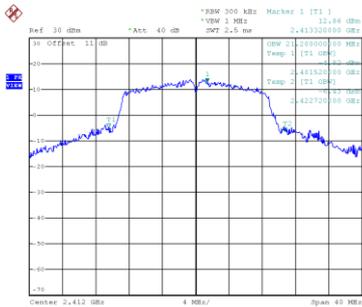
Date: 13\_AUG\_2021 15:14:09

**CH11**

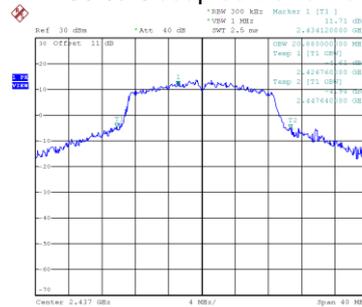


Date: 13\_AUG\_2021 15:15:57

**99 % Occupied Bandwidth**



Date: 13\_AUG\_2021 14:08:01



Date: 13\_AUG\_2021 15:14:16

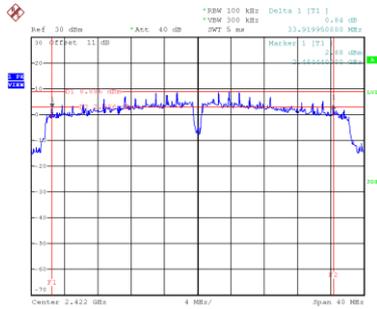


Date: 13\_AUG\_2021 15:16:03

Test Mode TX N(HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	33.920	37.760	0.5	Complies
06	2437	35.159	37.920	0.5	Complies
09	2452	35.080	37.920	0.5	Complies

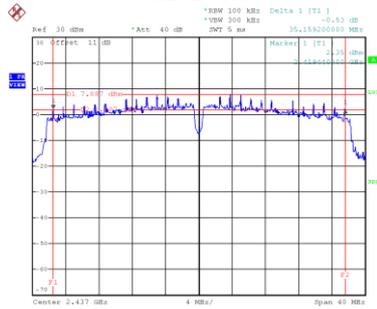
**CH03**



Date: 13\_AUG\_2021 15:21:50

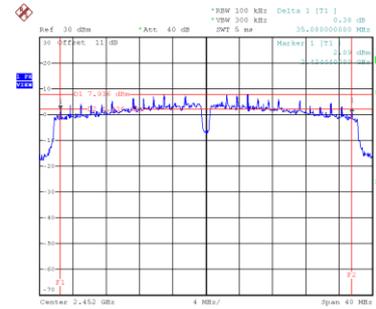
**CH06**

**6 dB Bandwidth**



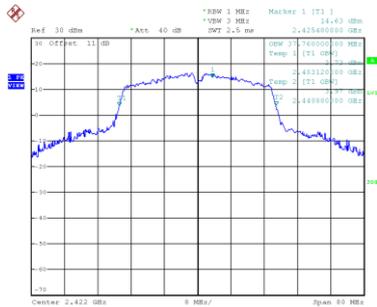
Date: 13\_AUG\_2021 15:24:09

**CH09**

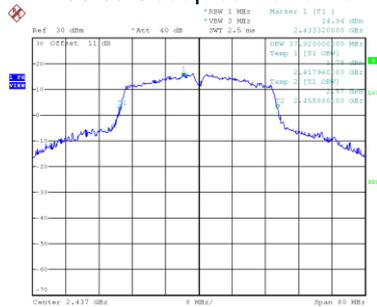


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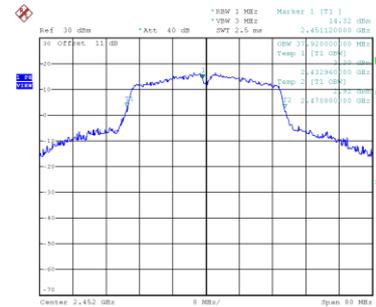
**99 % Occupied Bandwidth**



Date: 13\_AUG\_2021 15:28:47



Date: 13\_AUG\_2021 15:24:16



Date: 13\_AUG\_2021 15:30:47

## APPENDIX F - MAXIMUM OUTPUT POWER

**CDD**

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.12	29.97	0.9931	Complies
06	2437	24.65	29.97	0.9931	Complies
11	2462	24.56	29.97	0.9931	Complies

Test Mode	TX B Mode_Ant. 2
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Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.14	29.97	0.9931	Complies
06	2437	24.72	29.97	0.9931	Complies
11	2462	24.93	29.97	0.9931	Complies

Test Mode	TX B Mode_Total
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Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.14	29.97	0.9931	Complies
06	2437	27.70	29.97	0.9931	Complies
11	2462	27.76	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.23	0.02	20.25	29.97	0.9931	Complies
06	2437	23.02	0.02	23.04	29.97	0.9931	Complies
11	2462	22.90	0.02	22.92	29.97	0.9931	Complies

Test Mode	TX B Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.05	0.02	20.07	29.97	0.9931	Complies
06	2437	22.79	0.02	22.81	29.97	0.9931	Complies
11	2462	23.24	0.02	23.26	29.97	0.9931	Complies

Test Mode	TX B Mode_Total
-----------	-----------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.17	29.97	0.9931	Complies
06	2437	25.94	29.97	0.9931	Complies
11	2462	26.10	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.89	29.97	0.9931	Complies
06	2437	26.77	29.97	0.9931	Complies
11	2462	24.13	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.02	29.97	0.9931	Complies
06	2437	27.03	29.97	0.9931	Complies
11	2462	24.47	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.97	29.97	0.9931	Complies
06	2437	29.91	29.97	0.9931	Complies
11	2462	27.31	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.59	0.47	16.06	29.97	0.9931	Complies
06	2437	21.92	0.47	22.39	29.97	0.9931	Complies
11	2462	14.64	0.47	15.11	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.49	0.47	15.96	29.97	0.9931	Complies
06	2437	22.02	0.47	22.49	29.97	0.9931	Complies
11	2462	15.02	0.47	15.49	29.97	0.9931	Complies

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

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.02	29.97	0.9931	Complies
06	2437	25.45	29.97	0.9931	Complies
11	2462	18.31	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.61	29.97	0.9931	Complies
06	2437	26.62	29.97	0.9931	Complies
11	2462	23.79	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.95	29.97	0.9931	Complies
06	2437	26.76	29.97	0.9931	Complies
11	2462	24.03	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.79	29.97	0.9931	Complies
06	2437	29.70	29.97	0.9931	Complies
11	2462	26.92	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.98	0.39	14.37	29.97	0.9931	Complies
06	2437	20.39	0.39	20.78	29.97	0.9931	Complies
11	2462	13.98	0.39	14.37	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.16	0.39	14.55	29.97	0.9931	Complies
06	2437	20.60	0.39	20.99	29.97	0.9931	Complies
11	2462	14.49	0.39	14.88	29.97	0.9931	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.48	29.97	0.9931	Complies
06	2437	23.90	29.97	0.9931	Complies
11	2462	17.65	29.97	0.9931	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.55	29.97	0.9931	Complies
06	2437	25.12	29.97	0.9931	Complies
09	2452	21.50	29.97	0.9931	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.58	29.97	0.9931	Complies
06	2437	25.05	29.97	0.9931	Complies
09	2452	21.23	29.97	0.9931	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Maximum peak conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.58	29.97	0.9931	Complies
06	2437	28.10	29.97	0.9931	Complies
09	2452	24.38	29.97	0.9931	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	11.02	1.00	12.02	29.97	0.9931	Complies
06	2437	15.53	1.00	16.53	29.97	0.9931	Complies
09	2452	11.27	1.00	12.27	29.97	0.9931	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Duty Factor	Maximum conducted output power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	10.86	1.00	11.86	29.97	0.9931	Complies
06	2437	15.37	1.00	16.37	29.97	0.9931	Complies
09	2452	11.11	1.00	12.11	29.97	0.9931	Complies

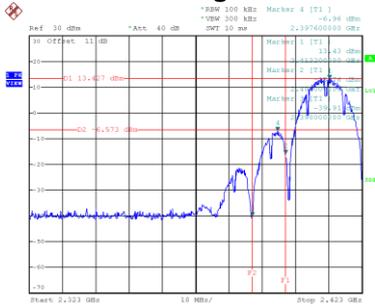
Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Maximum conducted output power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.95	29.97	0.9931	Complies
06	2437	19.46	29.97	0.9931	Complies
09	2452	15.20	29.97	0.9931	Complies

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

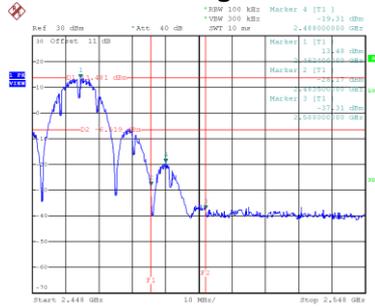
Test Mode TX B Mode\_Ant. 1

### Bandedge-CH01



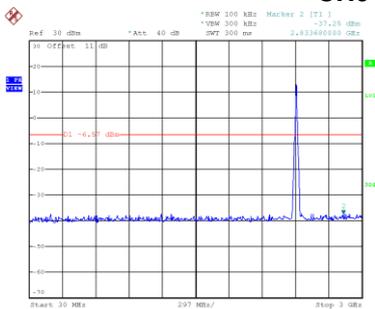
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### Bandedge-CH11

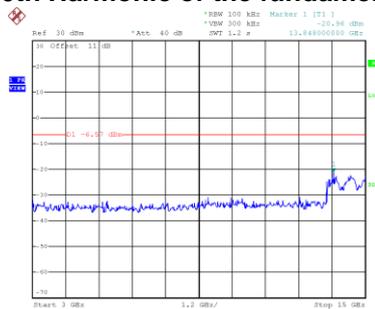


Date: 13\_AUG\_2021 13:49:35

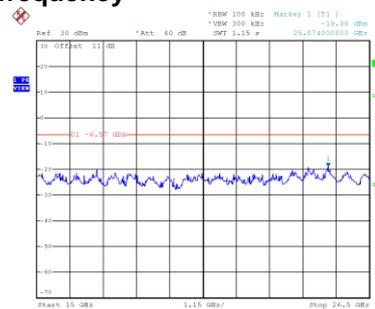
### CH01 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 12:41:55

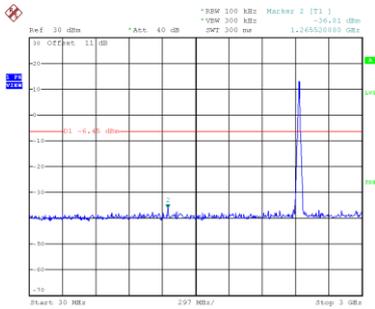


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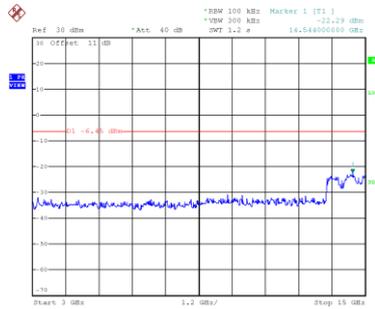


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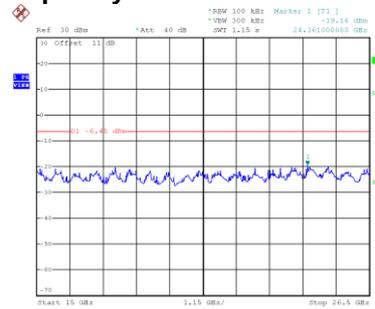
### CH06 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 13:28:44

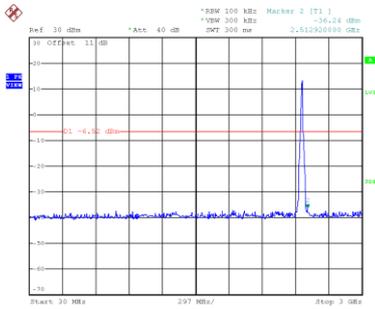


Date: 13\_AUG\_2021 13:28:51

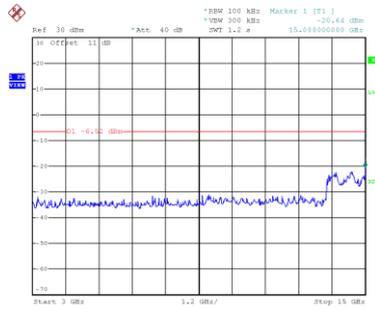


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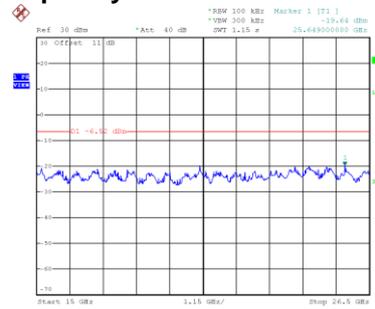
### CH11 – 10th Harmonic of the fundamental frequency



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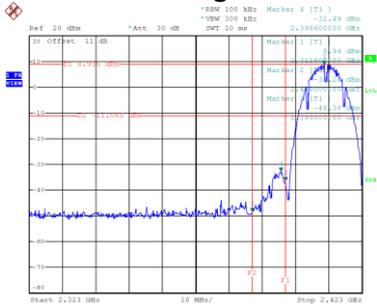
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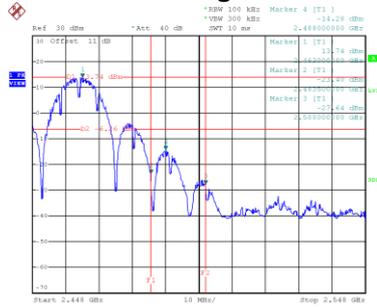
Test Mode TX B Mode\_Ant. 2

### Bandedge-CH01



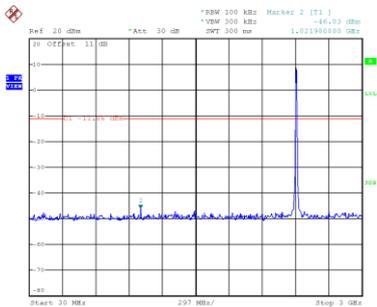
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### Bandedge-CH11

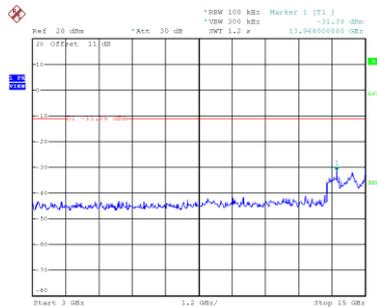


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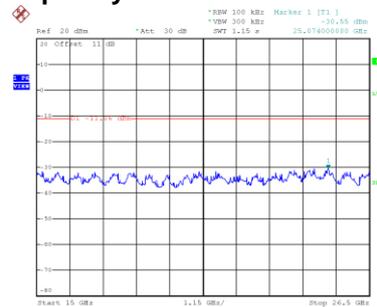
### CH01 – 10th Harmonic of the fundamental frequency



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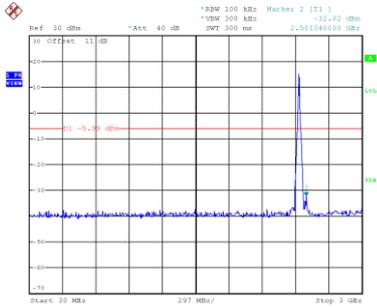


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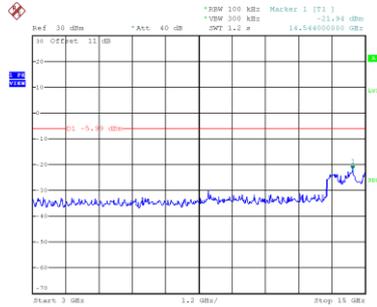


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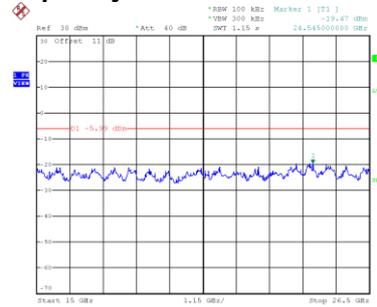
### CH06 – 10th Harmonic of the fundamental frequency



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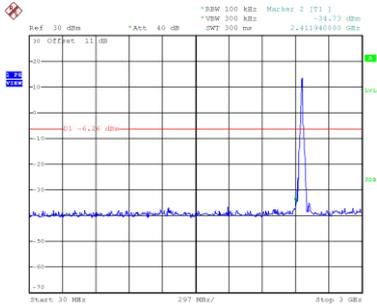


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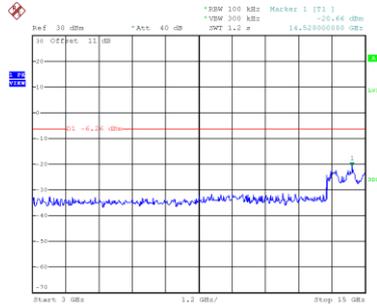


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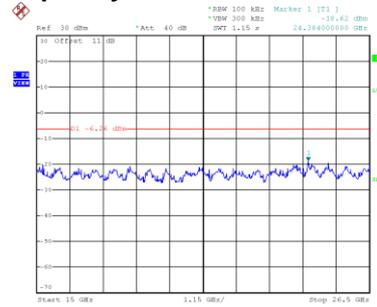
### CH11 – 10th Harmonic of the fundamental frequency



Date: 13.AUG.2021 13:52:01



Date: 13.AUG.2021 13:52:08

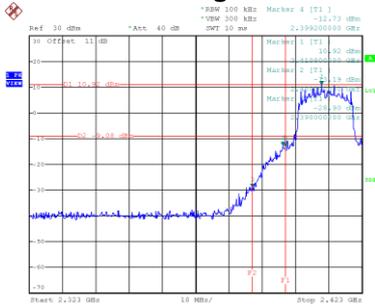


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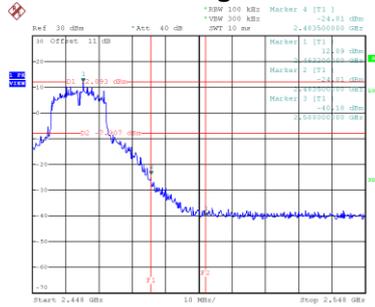
Test Mode TX G Mode\_Ant. 2

### Bandedge-CH01



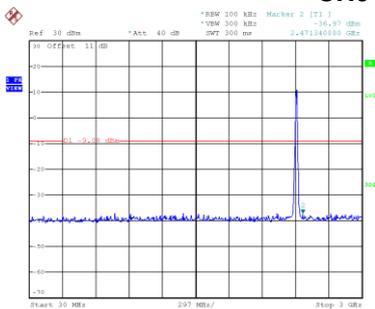
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### Bandedge-CH11

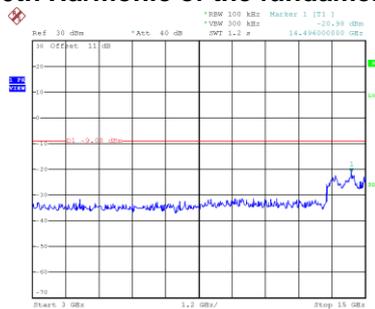


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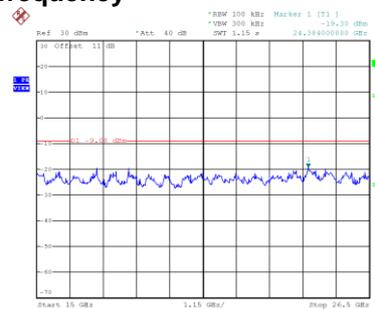
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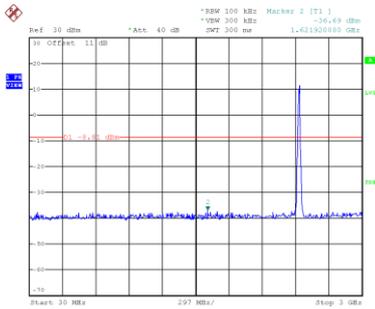


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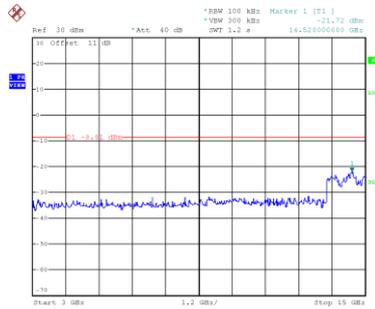


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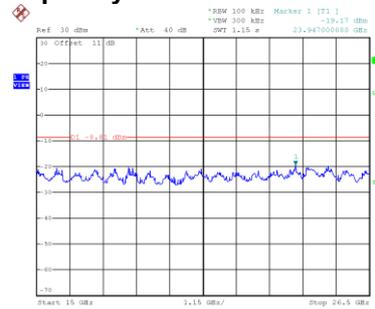
### CH06 – 10th Harmonic of the fundamental frequency



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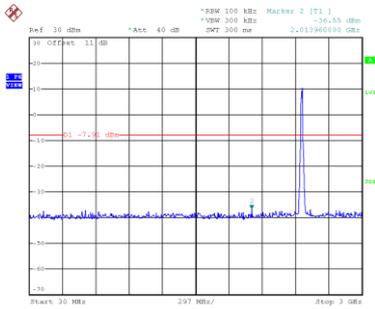


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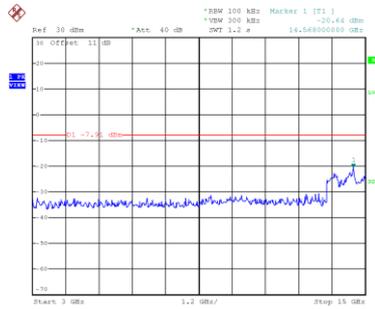


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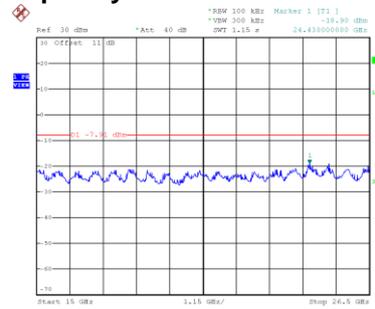
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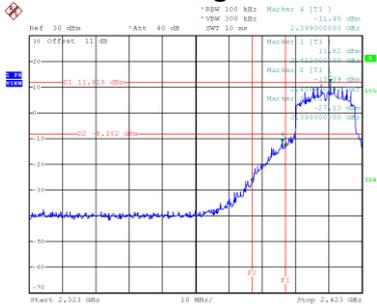
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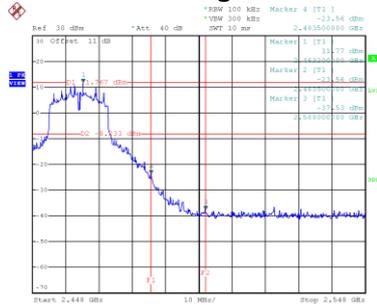
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### Bandedge-CH01



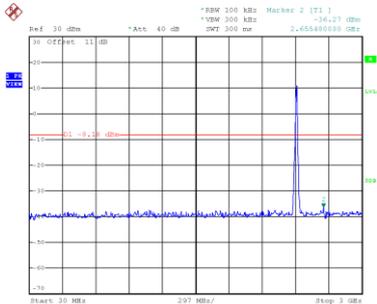
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### Bandedge-CH11

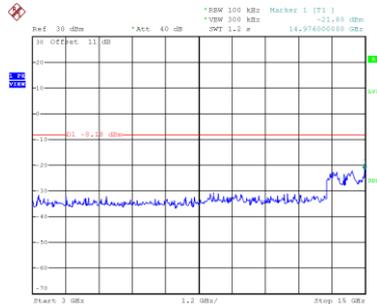


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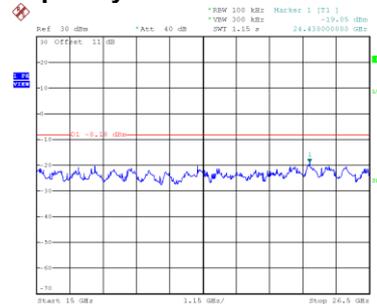
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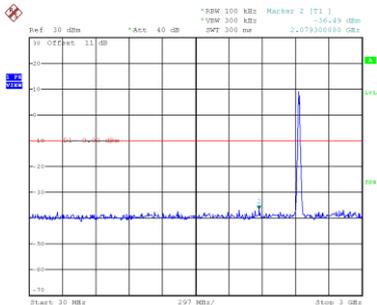


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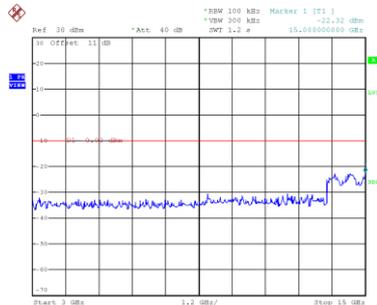


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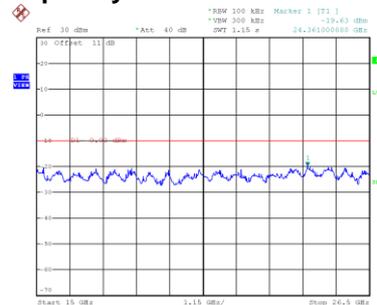
### CH06 – 10th Harmonic of the fundamental frequency



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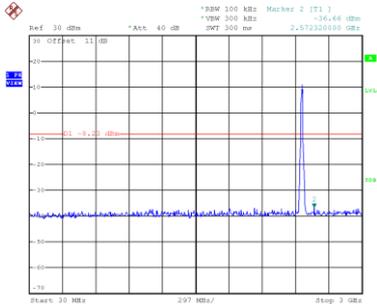


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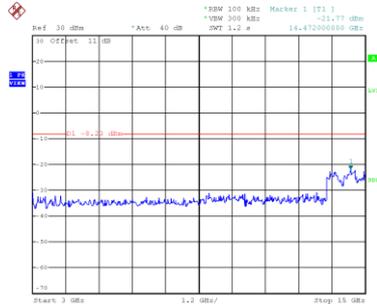


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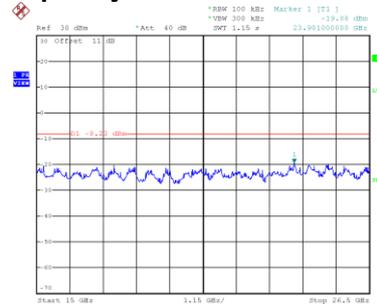
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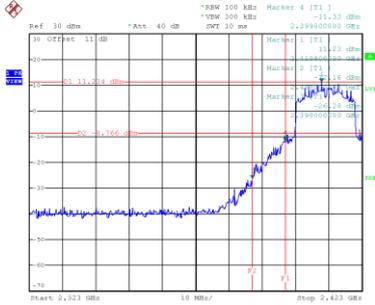
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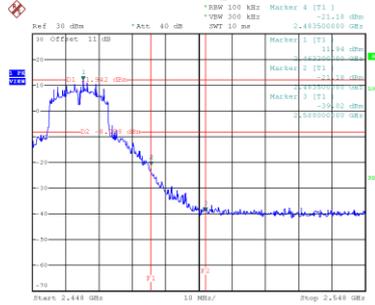
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### Bandedge-CH01



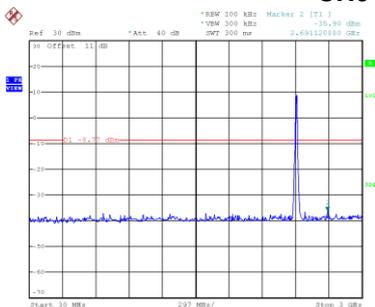
Date: 13\_AUG\_2021 15:10:52

### Bandedge-CH11

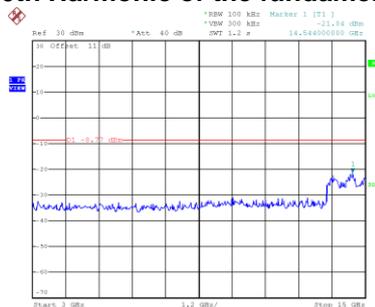


Date: 13\_AUG\_2021 15:18:04

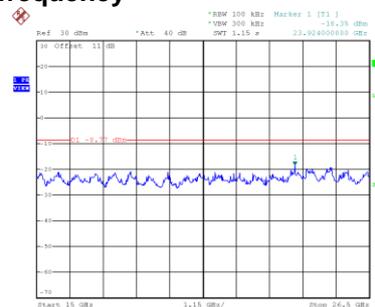
### CH01 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:11:05

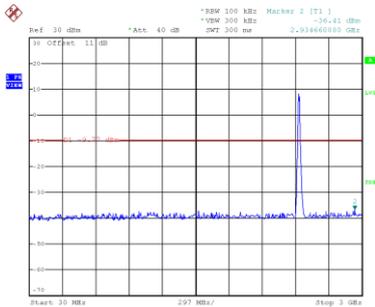


Date: 13\_AUG\_2021 15:11:12

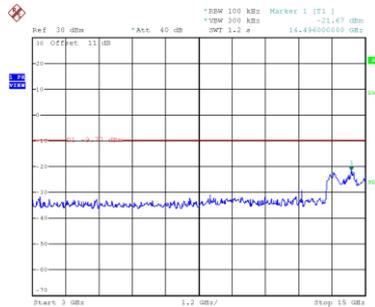


Date: 13\_AUG\_2021 15:11:20

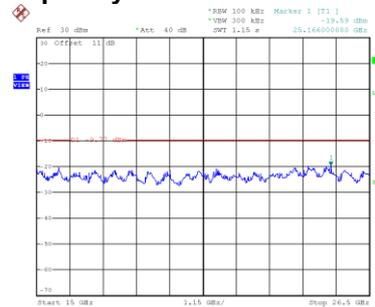
### CH06 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:12:49

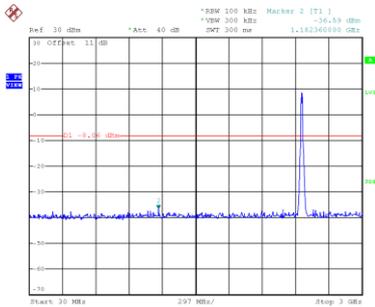


Date: 13\_AUG\_2021 15:12:56

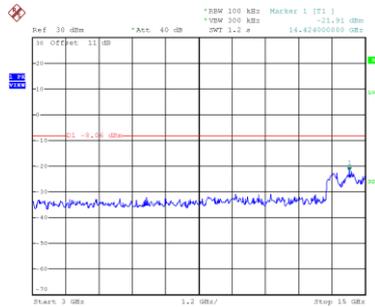


Date: 13\_AUG\_2021 15:13:03

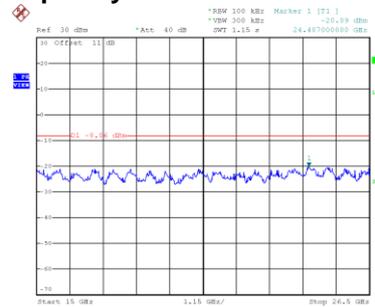
### CH11 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:18:17



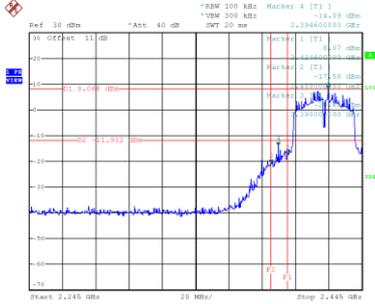
Date: 13\_AUG\_2021 15:18:24



Date: 13\_AUG\_2021 15:18:31

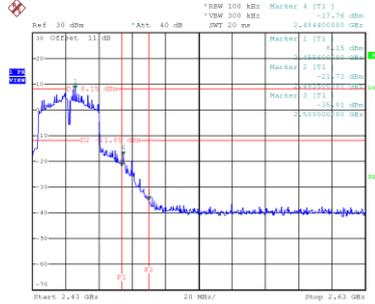
Test Mode TX N(HT40) Mode\_Ant. 1

### Bandedge-CH03



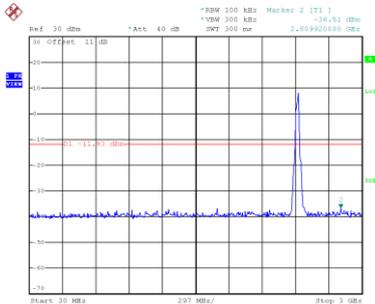
Date: 13\_AUG\_2021 15:28:54

### Bandedge-CH09

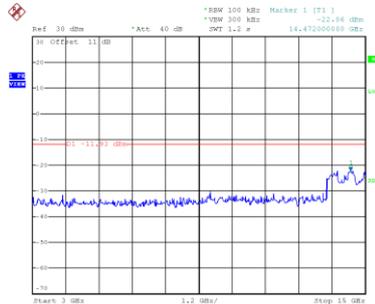


Date: 13\_AUG\_2021 15:30:54

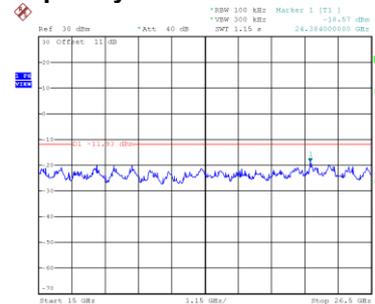
### CH03 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:29:07

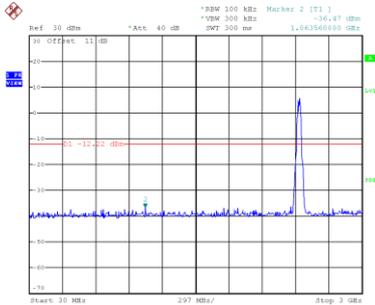


Date: 13\_AUG\_2021 15:29:14

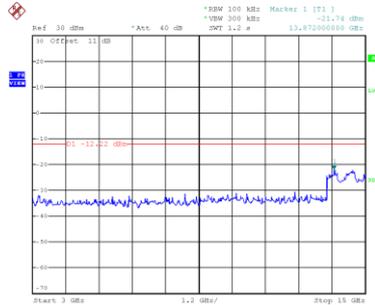


Date: 13\_AUG\_2021 15:29:21

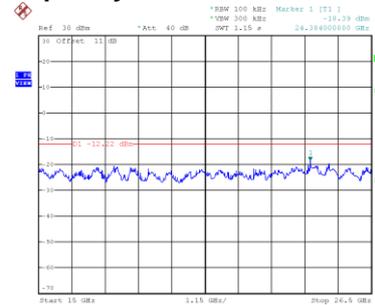
### CH06 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:24:36

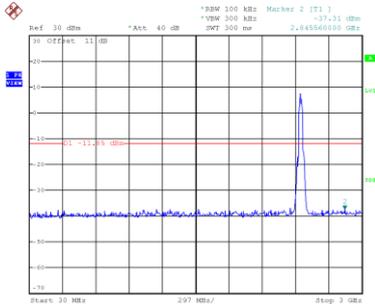


Date: 13\_AUG\_2021 15:24:43

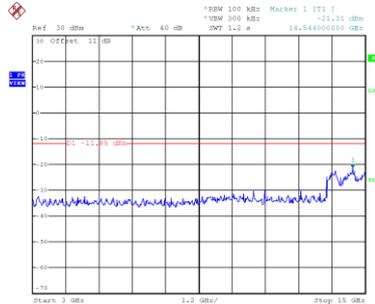


Date: 13\_AUG\_2021 15:24:50

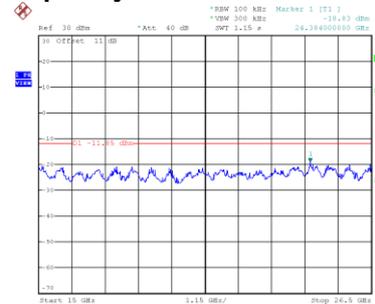
### CH09 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:31:07



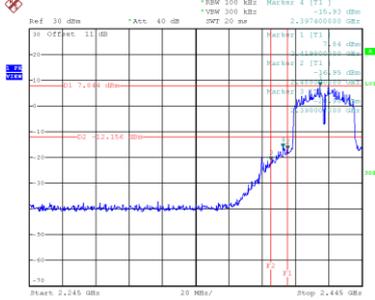
Date: 13\_AUG\_2021 15:31:14



Date: 13\_AUG\_2021 15:31:21

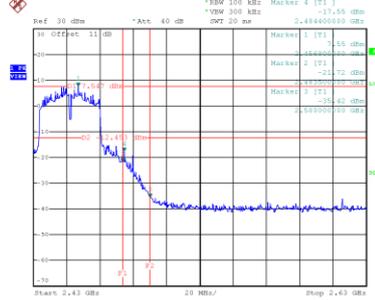
Test Mode TX N(HT40) Mode\_Ant. 2

### Bandedge-CH03



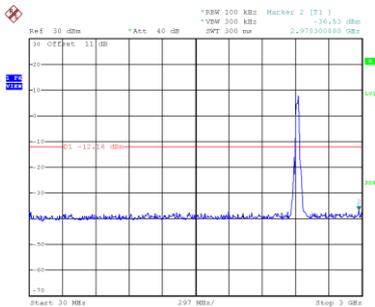
Date: 13\_AUG\_2021 15:27:27

### Bandedge-CH09

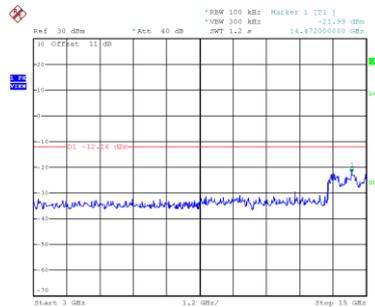


Date: 13\_AUG\_2021 15:32:32

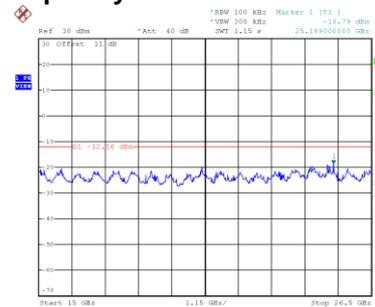
### CH03 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:27:40

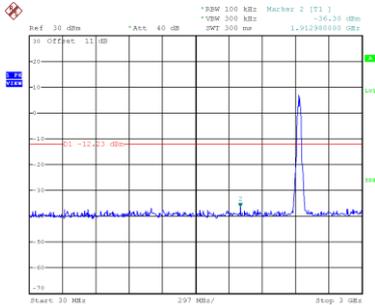


Date: 13\_AUG\_2021 15:27:48

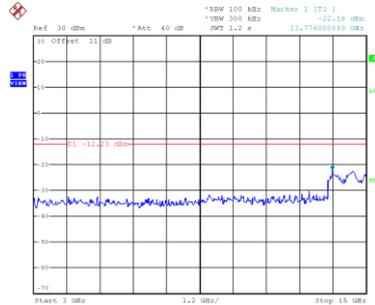


Date: 13\_AUG\_2021 15:27:55

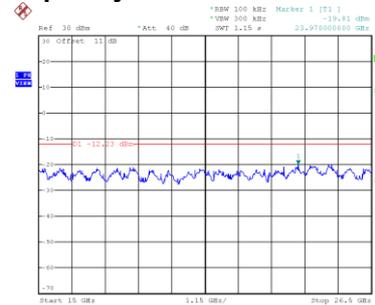
### CH06 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:26:16

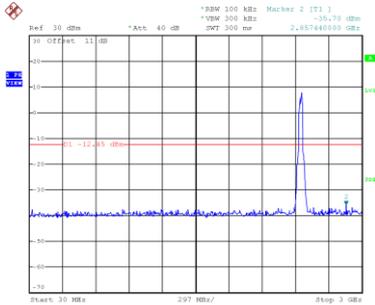


Date: 13\_AUG\_2021 15:26:23

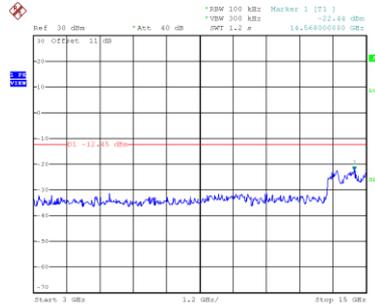


Date: 13\_AUG\_2021 15:26:30

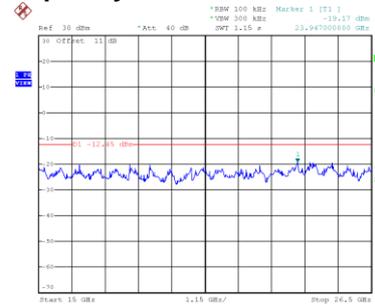
### CH09 – 10th Harmonic of the fundamental frequency



Date: 13\_AUG\_2021 15:32:45



Date: 13\_AUG\_2021 15:32:52

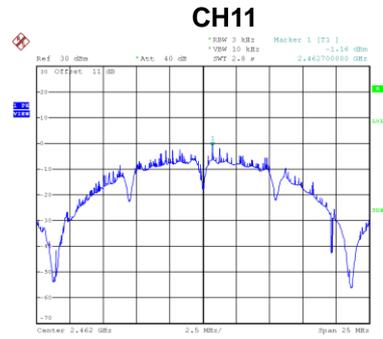
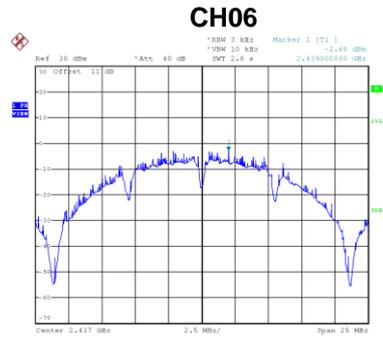
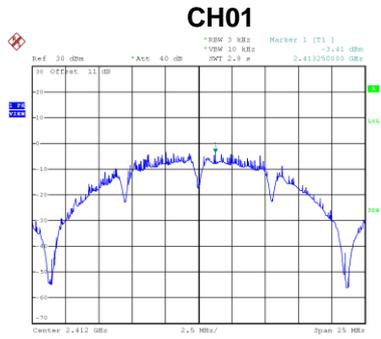


Date: 13\_AUG\_2021 15:32:59

**APPENDIX H - POWER SPECTRAL DENSITY**

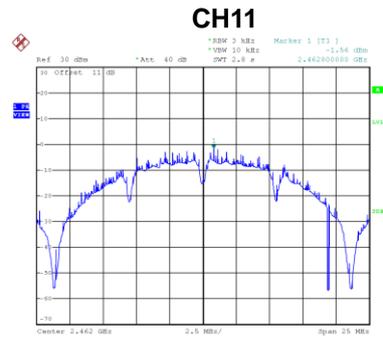
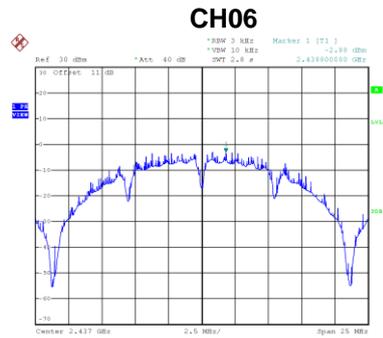
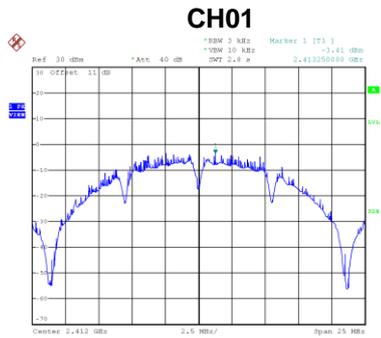
Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-3.41	4.96	Complies
06	2437	-2.68	4.96	Complies
11	2462	-1.16	4.96	Complies



Test Mode	TX B Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-2.16	4.96	Complies
06	2437	-2.88	4.96	Complies
11	2462	-1.56	4.96	Complies

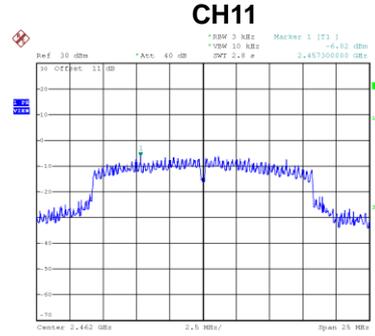
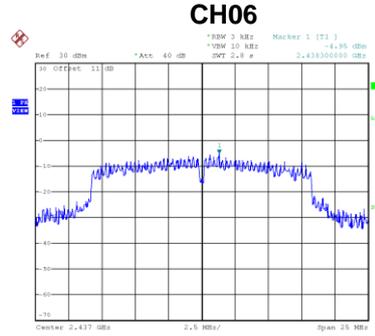
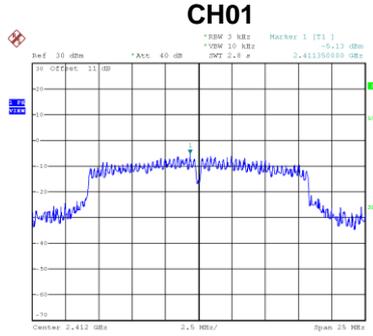


Test Mode	TX B Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	0.27	4.96	Complies
06	2437	0.23	4.96	Complies
11	2462	1.65	4.96	Complies

Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.13	4.96	Complies
06	2437	-4.95	4.96	Complies
11	2462	-6.02	4.96	Complies



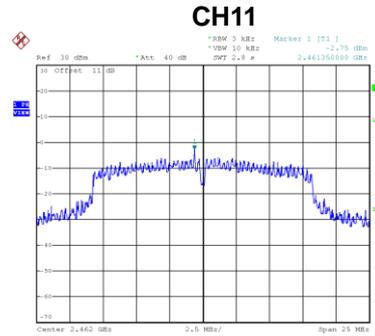
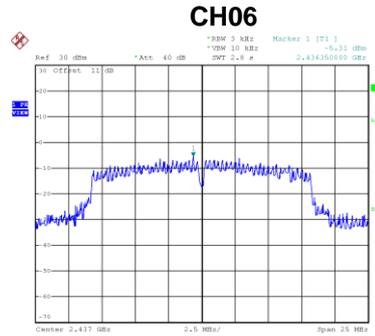
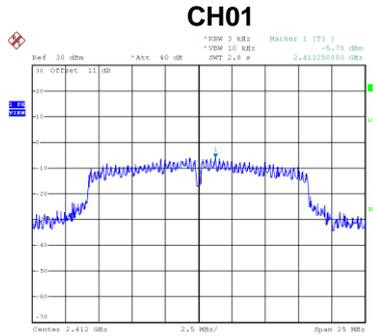
Date: 13\_AUG\_2021 13:55:19

Date: 13\_AUG\_2021 13:59:08

Date: 13\_AUG\_2021 14:06:12

Test Mode	TX G Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.75	4.96	Complies
06	2437	-5.31	4.96	Complies
11	2462	-2.75	4.96	Complies



Date: 13\_AUG\_2021 13:57:08

Date: 13\_AUG\_2021 14:00:50

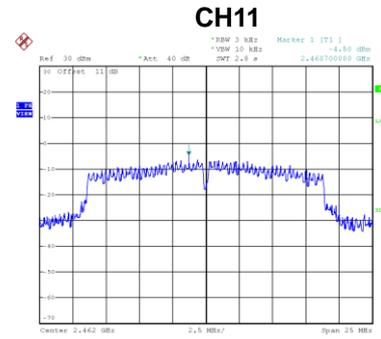
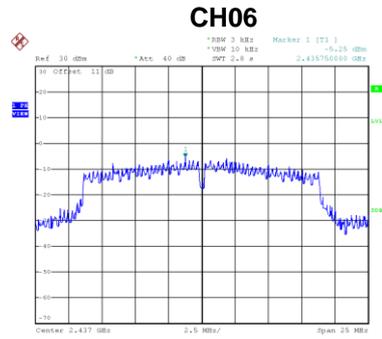
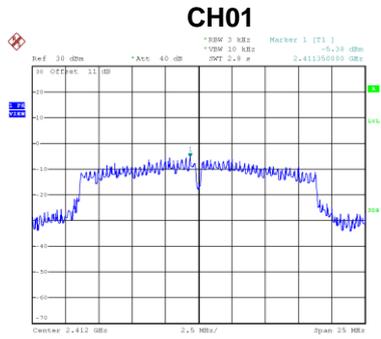
Date: 13\_AUG\_2021 14:04:17

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

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-2.42	4.96	Complies
06	2437	-2.12	4.96	Complies
11	2462	-1.07	4.96	Complies

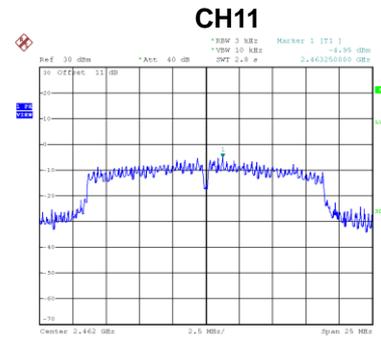
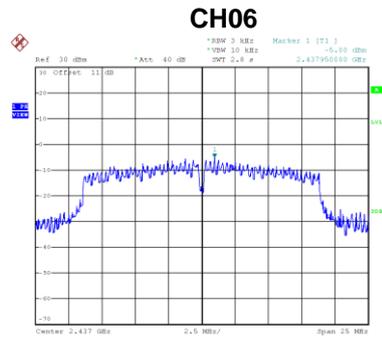
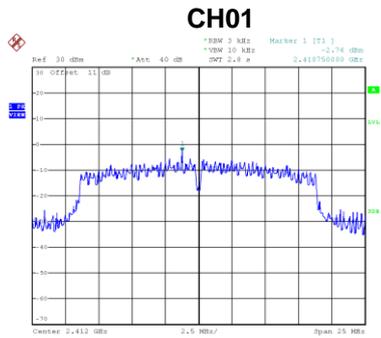
Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.38	4.96	Complies
06	2437	-5.25	4.96	Complies
11	2462	-4.50	4.96	Complies



Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-2.76	4.96	Complies
06	2437	-5.00	4.96	Complies
11	2462	-4.95	4.96	Complies

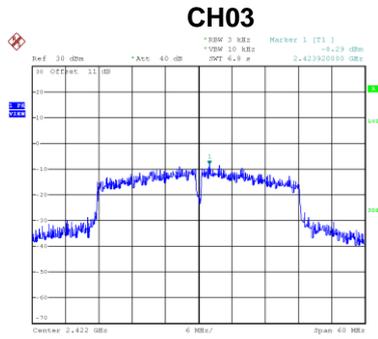


Test Mode	TX N(HT20) Mode_Total
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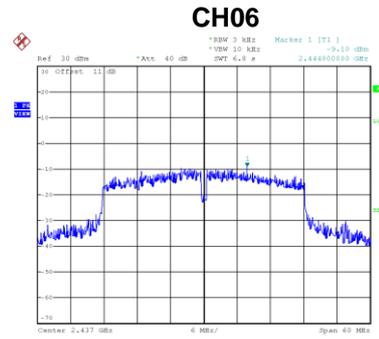
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-0.87	4.96	Complies
06	2437	-2.11	4.96	Complies
11	2462	-1.71	4.96	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

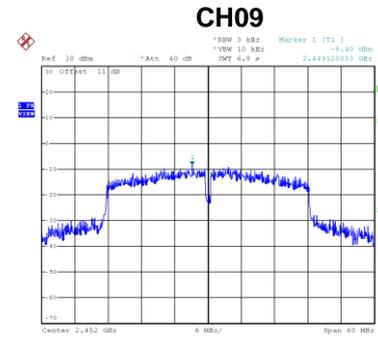
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-8.29	4.96	Complies
06	2437	-9.10	4.96	Complies
09	2452	-8.40	4.96	Complies



Date: 13\_AUG\_2021 15:29:13



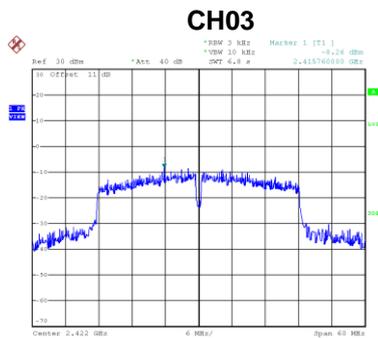
Date: 13\_AUG\_2021 15:29:02



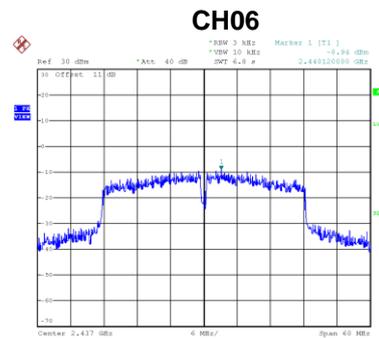
Date: 13\_AUG\_2021 15:31:33

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

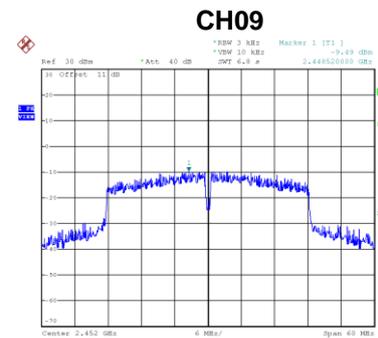
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-8.26	4.96	Complies
06	2437	-8.94	4.96	Complies
09	2452	-9.49	4.96	Complies



Date: 13\_AUG\_2021 15:28:06



Date: 13\_AUG\_2021 15:26:42



Date: 13\_AUG\_2021 15:33:11

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-5.26	4.96	Complies
06	2437	-6.01	4.96	Complies
09	2452	-5.90	4.96	Complies

End of Test Report