



# FCC Radio Test Report

## FCC ID: TVE-FONW80B

This report concerns: Original Grant

Project No. Equipment Brand Name	::	2408G076 FortiFone W80B
Test Model	:	FON-W80B
Series Model	:	FON-W80Bxxxxxxxxx, FortiFone W80Bxxxxxxxxx, FORTIFONE-W80Bxxxxxxxx, (where "x" can be used as "0-9", or "A-Z", or "-", or blank for software changes or marketing purpose only)
Applicant	:	Fortinet, Inc.
Address	:	909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer	:	Fortinet, Inc.
Address	:	909 Kifer Road, Sunnyvale, CA 94086, USA
Date of Receipt	:	Aug. 15, 2024
Date of Test	:	Aug. 21, 2024 ~ Oct. 11, 2024
Issued Date	:	Dec. 05, 2024
<b>Report Version</b>	:	R00
Test Sample	:	Engineering Sample No.: SSL20240815162 and SSL20240815164 for radiated and AC Power Line Conducted Emissions, SSL20240815164 for conducted.
Standard(s)		FCC CFR Title 47, Part 15, Subpart C

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

Prepared by

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#### Declaration

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

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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

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

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

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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### **REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2408G076	R00	Original Report.	Dec. 05, 2024	Valid



### 1. APPLICABLE STANDARDS

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

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA: KDB 558074 D01 15.247 Meas Guidance v05r02

### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C					
Standard(s) Section	tandard(s) Section Test Item Test Result				
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:

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

<sup>(1) &</sup>quot;N/A" denotes test is not applicable in this test report.





### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report: For Radiated Emission Above 1-18GHz test items: Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China. BTL's Company Number for ISED: 31978 BTL's CAB Identifier for ISED: CN0170

For other test items:

1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong .People's Republic of China BTL's Registration Number for FCC: 747969 BTL's Designation Number for FCC: CN1377

### 2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

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

#### B. Radiated emissions Measurement:

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

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

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB18	CISPR	1GHz ~ 6GHz	4.48
(3m)		6GHz ~ 18GHz	3.88

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



### C. Other Measurement:

Test Item	Uncertainty
Bandwidth	3.8 %
Maximum Output Power	0.95 dB
Conducted Spurious Emission	2.71 dB
Power Spectral Density	0.86 dB
Temperature	0.46 °C
Humidity	1.3 %

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

### 2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	60%	AC 120V/60Hz	Hayden Chen	Aug. 28, 2024
Radiated Emissions-9 kHz to 30 MHz	26°C	48%	AC 120V/60Hz	Hayden Chen	Sep. 25, 2024
Radiated Emissions-30 MHz to 1000 MHz	22°C	51%	AC 120V/60Hz	Allen Tong	Sep. 12, 2024
Radiated Emissions-Above 1000 MHz	22-25°C	41-51%	AC 120V/60Hz	Jensen Zhou	Sep. 07, 2024~ Sep. 12, 2024
Bandwidth	25°C	49%	AC 120V/60Hz	Parker Yang	Sep. 07, 2024
Maximum Output Power	24-25°C	48%	AC 120V/60Hz	Parker Yang	Sep. 07, 2024
Conducted Spurious Emission	25°C	49%	AC 120V/60Hz	Parker Yang	Sep. 07, 2024
Power Spectral Density	25°C	49%	AC 120V/60Hz	Parker Yang	Sep. 07, 2024

### 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	FortiFone W80B
Brand Name	
Test Model	FON-W80B
Series Model	FON-W80Bxxxxxxxx, FortiFone W80Bxxxxxxxx, FORTIFONE-W80Bxxxxxxxx, (where "x" can be used as "0-9", or "A-Z", or "-", or blank for software changes or marketing purpose only)
Model Difference(s)	Only differ in model name.
Software Version	v7.0.0,build4053,2024.08.01
Hardware Version	v1.0
Power Source 1# DC voltage supplied from AC adapter. (Support unit). 2# Supplied from battery. Model: YJ563170	
Power Rating 1# Input: 5V===2A 2# 3.8V 1900mAh 7.22Wh	
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 72.2 Mbps	
Maximum Output Power	IEEE 802.11b: 18.35 dBm (0.0684 W)

#### Note:

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

### 2. Channel List:

	CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)						
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. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		YJL01.106.048.301A	FPC	N/A	4.2

### 3.2 DESCRIPTION OF TEST MODES

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

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

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

AC power line conducted emissions test				
Final Test Mode	Description			
Mode 4 TX B Mode Channel 01				

Radiated emissions test - Below 1GHz				
Final Test Mode Description				
Mode 4	TX B Mode Channel 01			

Radiated emissions test- Above 1GHz				
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			

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			



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 B Mode Channel 01 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission, the Vertical antennas and Horizontal antennas are evaluated, the worst case is Horizontal antennas and recorded.

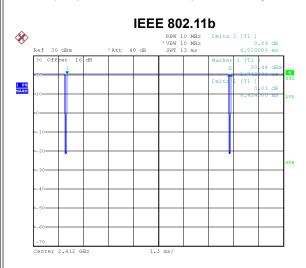
### 3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	MobaXterm		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	16	14	14
IEEE 802.11g	11	15	12
IEEE 802.11n(HT20)	12	16	13

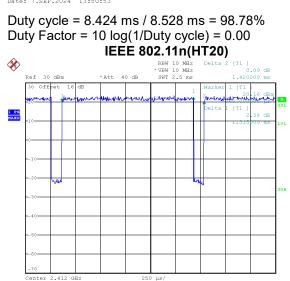


### 3.4 DUTY CYCLE

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



Date: 7.SEP.2024 13:50:53



Date: 7.SEP.2024 13:52:10

Duty cycle = 1.315 ms / 1.420 ms = 92.61% Duty Factor = 10 log(1/Duty cycle) = 0.33

#### NOTE:

For IEEE 802.11b:

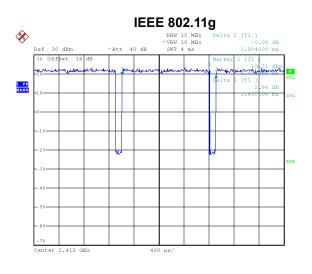
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 714 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 760 Hz.

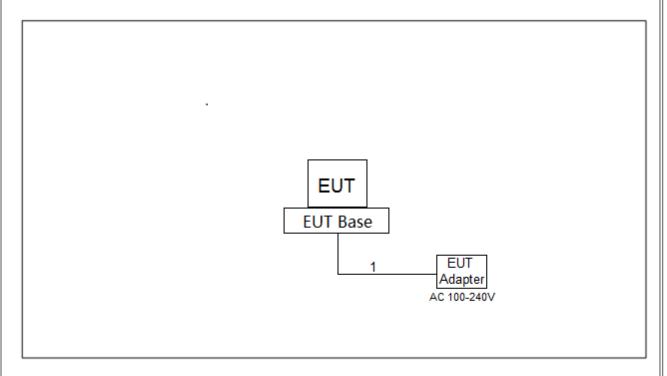


Date: 7.SEP.2024 13:51:32

Duty cycle = 1.400 ms / 1.504 ms = 93.09% Duty Factor = 10 log(1/Duty cycle) = 0.31



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



### 3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

### 3.7 CUSTOMER INFORMATION DESCRIPTION

1) The antenna gain is provided by the manufacturer.

2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (1dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.



### 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency of Emission (MHz)	Limit (d	BμV)
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

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

### 4.2 TEST PROCEDURE

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

The following table is the setting of the receiver:

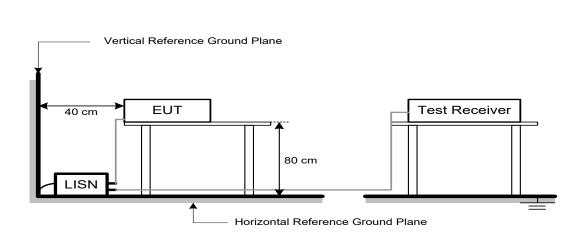
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 4.3 DEVIATION FROM TEST STANDARD

No deviation.



### 4.4 TEST SETUP



### 4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 4.6 TEST RESULTS

Please refer to the APPENDIX A.



### 5. RADIATED EMISSIONS

### 5.1 LIMIT

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

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

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

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

Frequency	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at	1m (dBµV/m)
(MHz)	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

.

Note:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

1

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4)

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

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

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

 $\mathsf{FS}_{\mathsf{max}}\!:$  Harmonic at 1m Peak and Average Maximum value.

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

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



### 5.2 TEST PROCEDURE

- 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 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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:

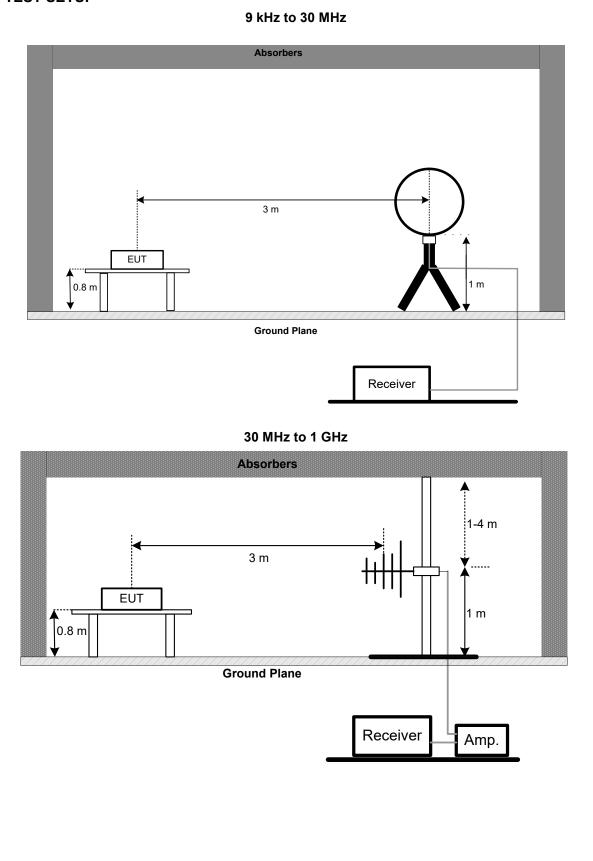
Spectrum Parameters	Setting	
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz	
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz	
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz	
Spectrum Parameters	Setting	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 3 MHz for PK value	
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value	
Receiver Parameters	Setting	
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector	
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector	
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector	
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector	
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector	
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector	



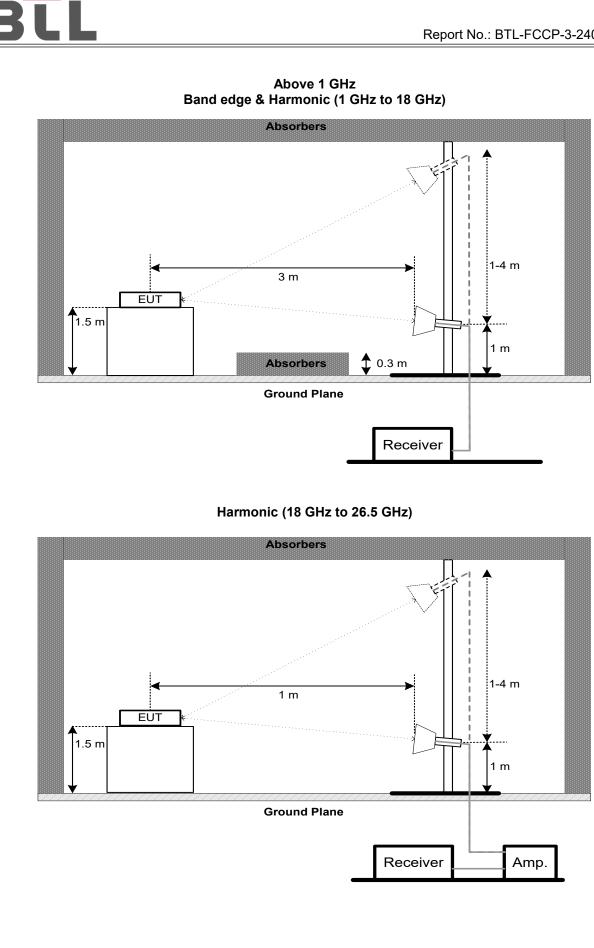
### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP









### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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

Please refer to the APPENDIX B.

Remark:

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

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

Please refer to the APPENDIX C.

### 5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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



### 6. BANDWIDTH

### 6.1 LIMIT

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

#### 6.2 TEST PROCEDURE

- 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:

For 6 dB Bandwidth:

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

#### For 99% Emission Bandwidth:

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

6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.6 TEST RESULTS

Please refer to the APPENDIX E.



### 7. MAXIMUM OUTPUT POWER

### 7.1 LIMIT

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

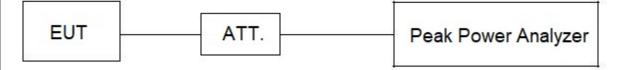
#### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.6 TEST RESULTS

Please refer to the APPENDIX F.



### 8. CONDUCTED SPURIOUS EMISSIONS

### 8.1 LIMIT

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

### 8.2 TEST PROCEDURE

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

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

#### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.6 TEST RESULTS

Please refer to the APPENDIX G.



### 9. POWER SPECTRAL DENSITY

### 9.1 LIMIT

Section	Test Item	Limit
ECC 15 247(a)	Bower Spectral Density	8 dBm
FCC 15.247(e)	Power Spectral Density	(in any 3 kHz)

#### 9.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. The following table is the setting of the spectrum analyzer:

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

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 9.6 TEST RESULTS

Please refer to the APPENDIX H.

### **10. MEASUREMENT INSTRUMENTS LIST**

	AC Power Line Conducted Emissions							
Item	Kind of Equipment Manufactu		Type No.	Serial No.	Calibrated until			
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 22, 2024			
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024			
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 27, 2024			
5	643 Shield Room	ETS	6*4*3	N/A	N/A			

	Radiated Emissions - 9 kHz to 30 MHz								
Item	em Kind of Equipment Manufact		Type No.	Serial No.	Calibrated until				
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025				
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024				
3	Cable N/A		RW2350-3.8A-NMB M-1.5M	N/A	Jun. 09, 2025				
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Sep. 09, 2025				
5	Measurement Software Farad		EZ-EMC Ver.NB-03A1-01	N/A	N/A				
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025				

Radiated Emissions - 30 MHz to 1 GHz								
Item	Kind of Equipment	Kind of Equipment Manufacturer Type N		Serial No.	Calibrated until			
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024			
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024			
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024			
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025			
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025			
6	Cable RegalWay		LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025			
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024			
8	Positioning Controller	MF	MF-7802	N/A	N/A			
9	Measurement Software	L Farad		N/A	N/A			
10	966 Chamber room	СМ	9*6*6	N/A	May 16, 2025			



	Radiated Emissions - Above 1-18 GHz								
Item	Kind of Equipment	Manufacturer	Type No. Serial No		Calibrated until				
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A				
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024				
4	Cable	RegalWay	RWLP50-4.0A-SMSM -1.3M	N/A	Jan. 09, 2025				
5	Cable	RegalWay	RWLP50-2.6A-3.5M2. 92MRA-3M	N/A	Jan. 09, 2025				
6	Cable	RegalWay	RWLP50-4.0A-SMSM -9M	N/A	Jan. 09, 2025				
7	966 Chamber room	ETS	RFD-100 (SVSWR)	Q2179	Jan. 09, 2025				
8	Preamplifier EMC INSTRUMENT		EMC118A45SE	981001	May 31, 2025				
9	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A				
10	Filter	STI STI15-9912		N/A	Nov. 17, 2024				
11	Filter	STI	STI15-9969	N/A	Nov. 17, 2024				
12	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025				

	Radiated Emissions - Above 18 GHz								
Item	Kind of Equipment	Kind of Equipment Manufacturer Type No.		Serial No.	Calibrated until				
1	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024				
2	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 17, 2025				
3	3 Cable Regal		RWLP50-2.6A-2.92M N/A 2.92M-1.1M		Jul. 25, 2025				
4	Cable Tonscend		HF160-KMKM-3M	N/A	Jul. 25, 2025				
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025				
6	966 Chamber room CM		9*6*6	N/A	May 19, 2025				
7	Positioning Controller MF		MF-7802	N/A	N/A				
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				

Number of Hopping Frequency & Average Time of Occupancy & Hopping Channel Separation & Bandwidth & Conducted Spurious Emission							
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unt							
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025		
2 Measurement BTL BTL Conducted N/A N/A							
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A		

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

Remark "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



### 11. EUT TEST PHOTO



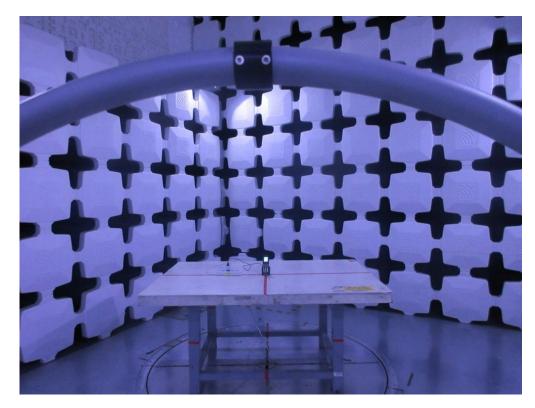
### AC Power Line Conducted Emissions Test Photos

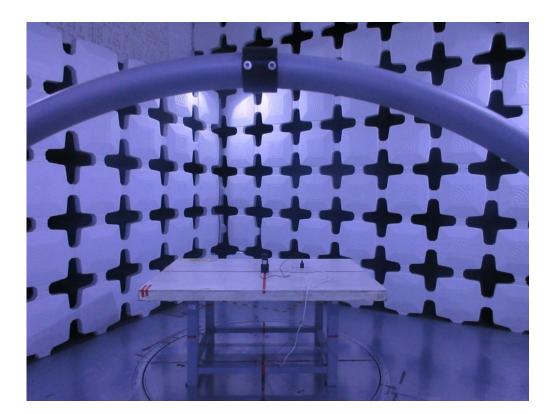




### **Radiated Emissions Test Photos**

9 kHz to 30 MHz





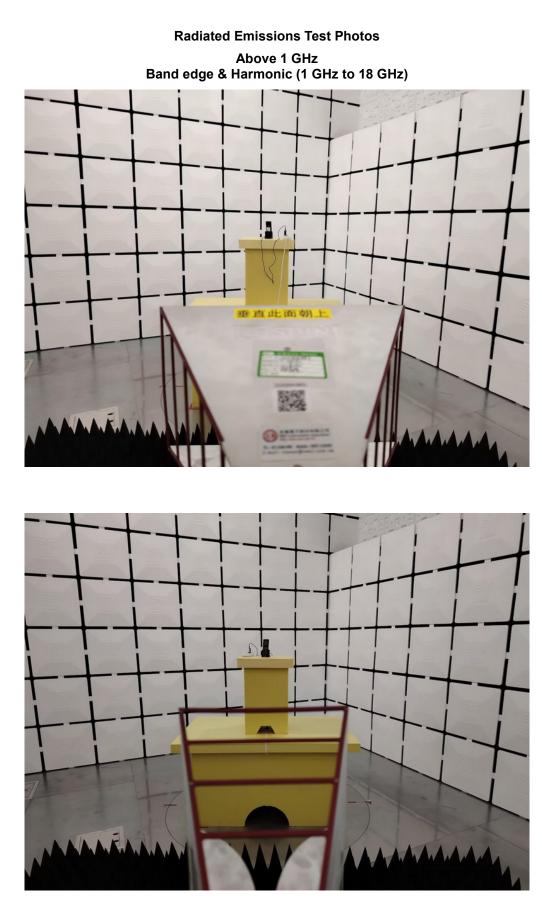


**Radiated Emissions Test Photos** 

30 MHz to 1000 MHz















### **Conducted Test Photos**

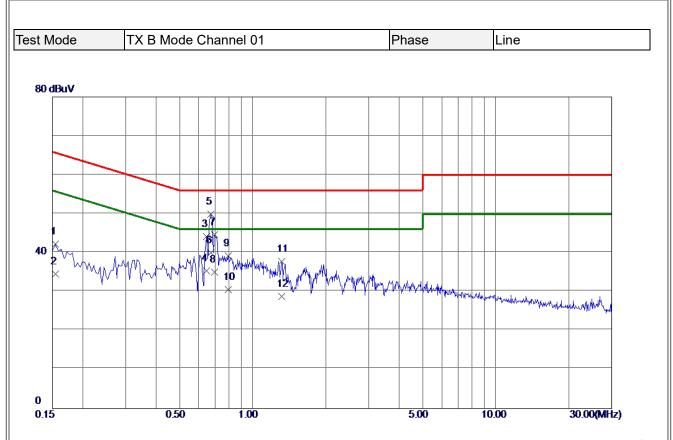






## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**



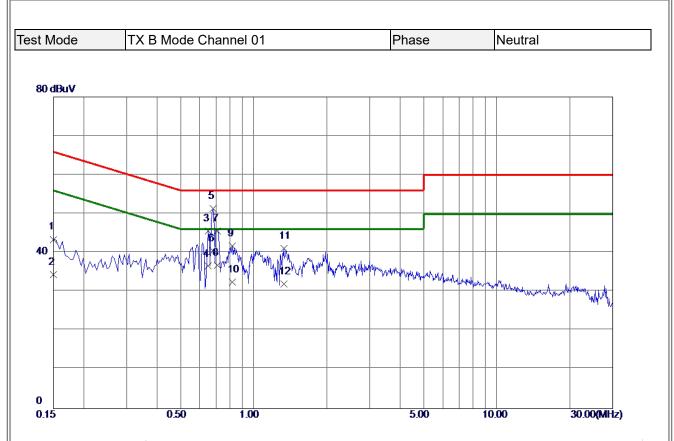


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	32.23	9.97	42.20	65.75	-23. 55	QP	
2	0.1545	24.60	9.97	34. 57	55.75	-21. 18	AVG	
3	0.6450	33. 32	10.91	44. 23	56.00	-11.77	QP	
4	0.6450	24.49	10.91	35. 40	46.00	-10.60	AVG	
5	0.6720	38.94	10.95	49.89	56.00	-6.11	QP	
6 *	0.6720	29.11	10.95	40.06	46.00	-5.94	AVG	
7	0.6990	33.62	11.00	<b>44.6</b> 2	56.00	-11. 38	QP	
8	0. 6990	24. 10	11.00	35.10	46.00	-10. 90	AVG	
9	0.7935	28.04	11.10	39.14	56.00	-16.86	QP	
10	0.7935	19.40	11. 10	30. 50	46.00	-15. 50	AVG	
11	1. 3200	26.41	11. 30	37.71	56.00	-18. 29	QP	
12	1. 3200	17.50	11. 30	28.80	46.00	-17.20	AVG	

**REMARKS**:

- Measurement Value = Reading Level + Correct Factor.
  Margin Level = Measurement Value Limit Value.





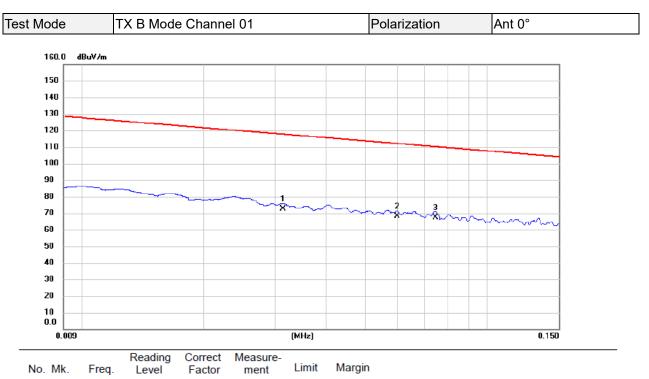
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	33. 51	9.93	43. 44	66.00	-22. 56	QP	
2	0.1500	24. 50	9.93	34.43	56.00	-21.57	AVG	
3	0.6495	34.72	10.87	45.59	56.00	-10. 41	QP	
4	0.6495	25.69	10.87	36.56	46.00	-9.44	AVG	
5 *	0.6809	40.39	10.92	51.31	56.00	- <b>4</b> . <b>6</b> 9	QP	
6	0.6809	29.50	<b>10. 9</b> 2	<b>40.</b> 42	46.00	-5. 58	AVG	
7	0.7084	34.67	10.96	45.63	56.00	-10. 37	QP	
8	0.7084	25.80	10.96	36.76	46.00	-9.24	AVG	
9	0.8160	30.66	11.07	41.73	56.00	-14.27	QP	
10	0.8160	21. 40	11.07	32.47	46.00	-13. 53	AVG	
11	1. 3290	29.81	11.25	41.06	56.00	-14. 94	QP	
12	1. 3290	20.70	11.25	31.95	46.00	-14. 05	AVG	

**REMARKS**:

- Measurement Value = Reading Level + Correct Factor.
  Margin Level = Measurement Value Limit Value.



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

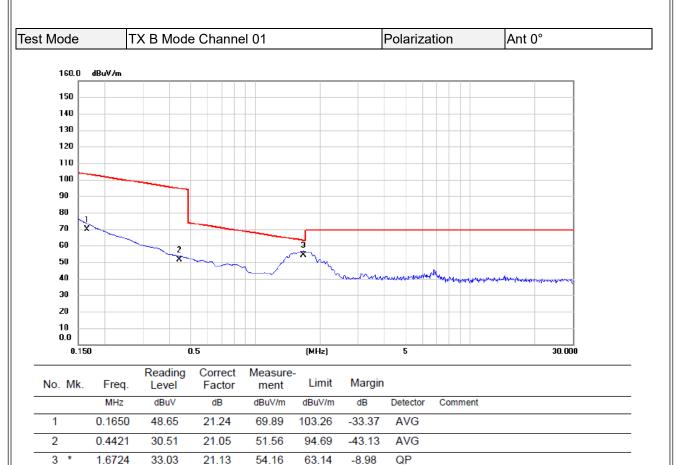


	No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
_		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	0.0313	51.46	21.14	72.60	117.69	-45.09	AVG	
	2	0.0600	46.84	21.26	68.10	112.04	-43.94	AVG	
	3 *	0.0745	46.25	21.31	67.56	110.16	-42.60	AVG	

#### **REMARKS**:

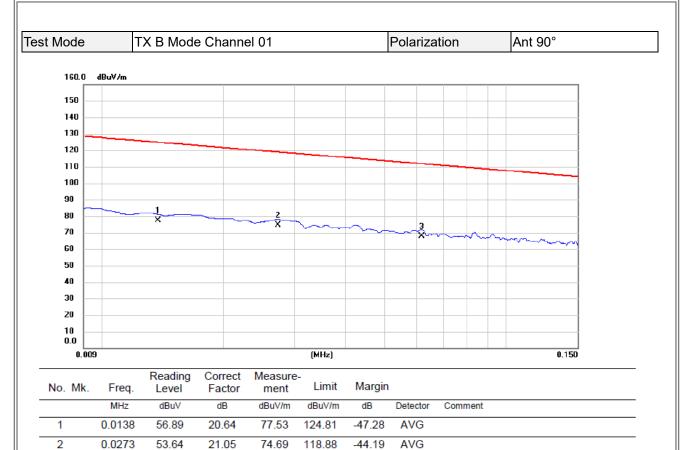
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





#### **REMARKS**:

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



AVG

-44.18

#### **REMARKS**:

3

\*

0.0617

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

21.27

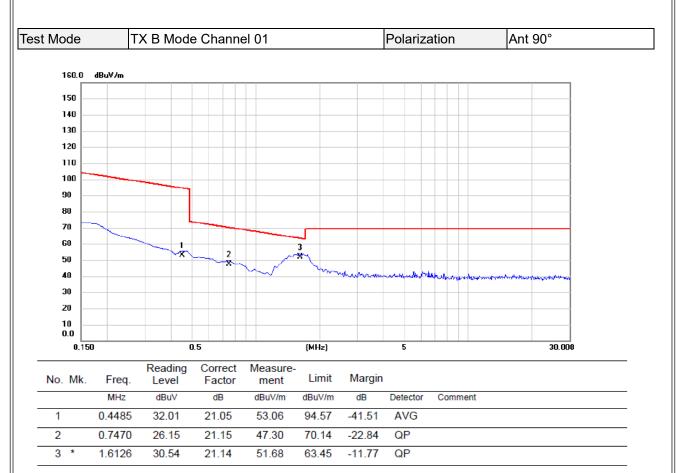
67.62

111.80

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

46.35



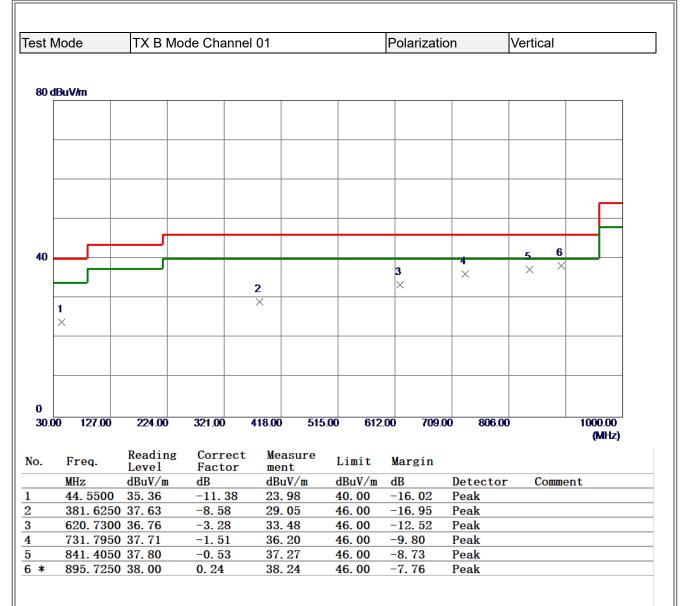


#### **REMARKS**:

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

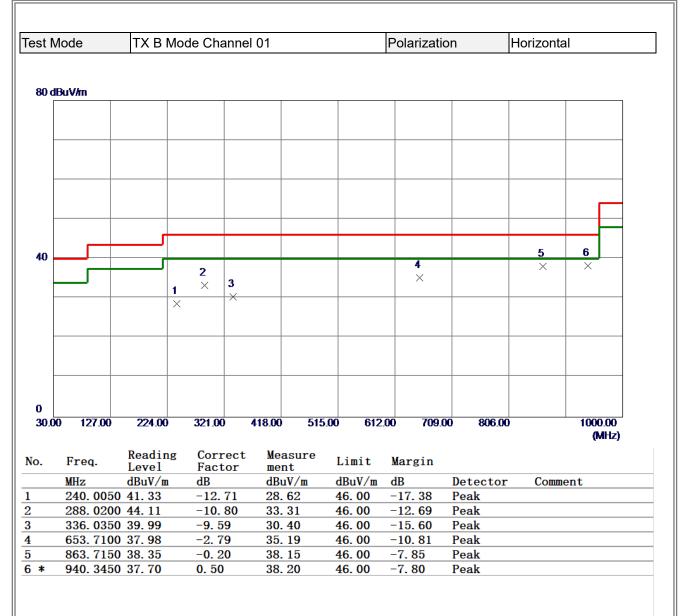


### APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



REMARKS:

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

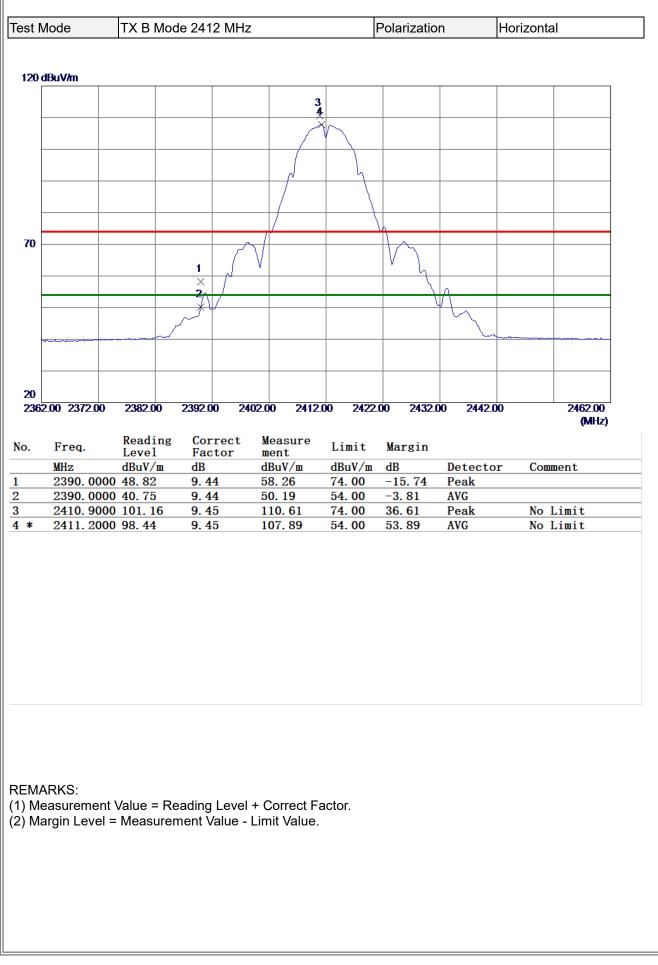


REMARKS:

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

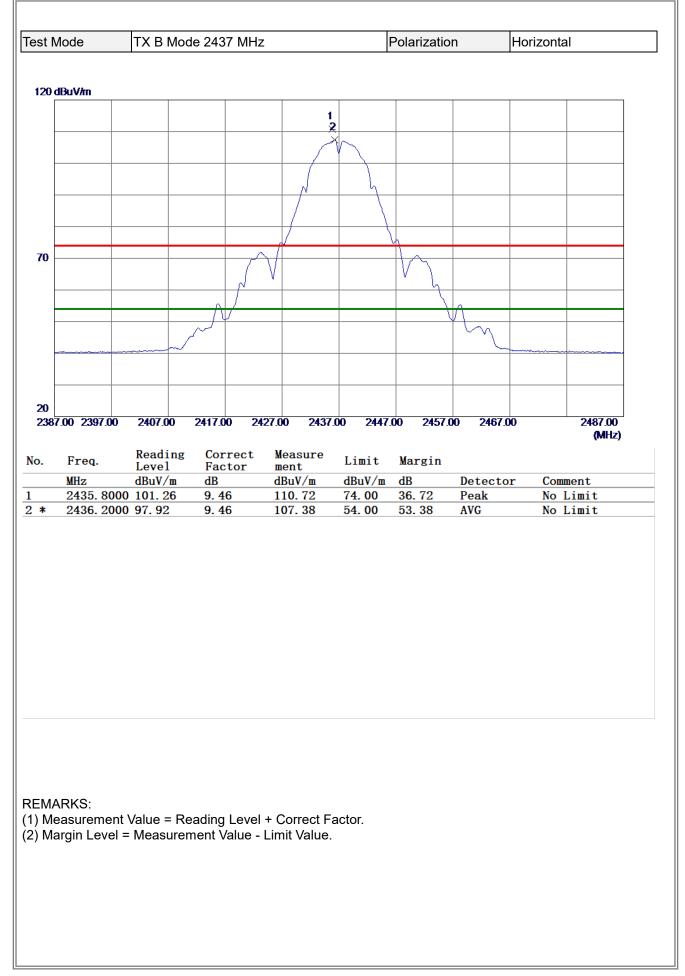


### **APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**



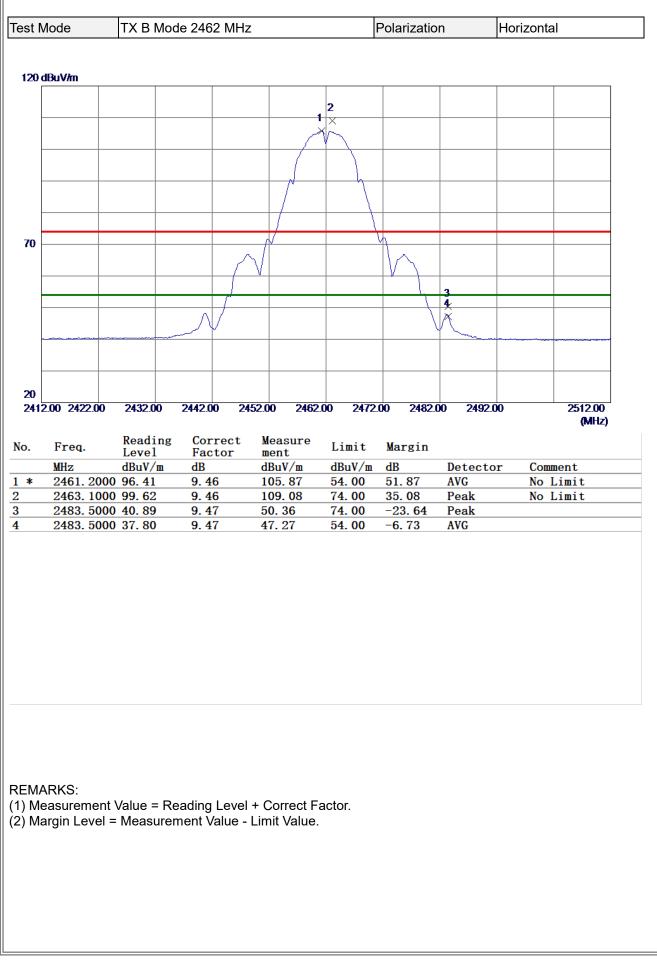
## **B**TL

		de 2412 M	Hz		F	Polarizatio	n	Horizonta	al
dBuV/m									
			1 X						
0.00 2700.0	0 4400.00	6100.00	7800.00	9500.0	0 11200	).00 12900	0.00 14600	0.00	18000.00
									(MHz)
Freq.	Reading Level	Correc Factor	t Mea men	sure t	Limit	Margin			
MHz	dBuV/m	dB	dBu	V/m	dBuV/m		Detecto	or Com	ment
	600 47.05	8.45	55. 50.		74.00	-18. 50	Peak		
	600 42.10	8.46	50.		54.00	-3. 44	AVG		
	500 42.10	8.40			34. 00	-3. 44	AVG		



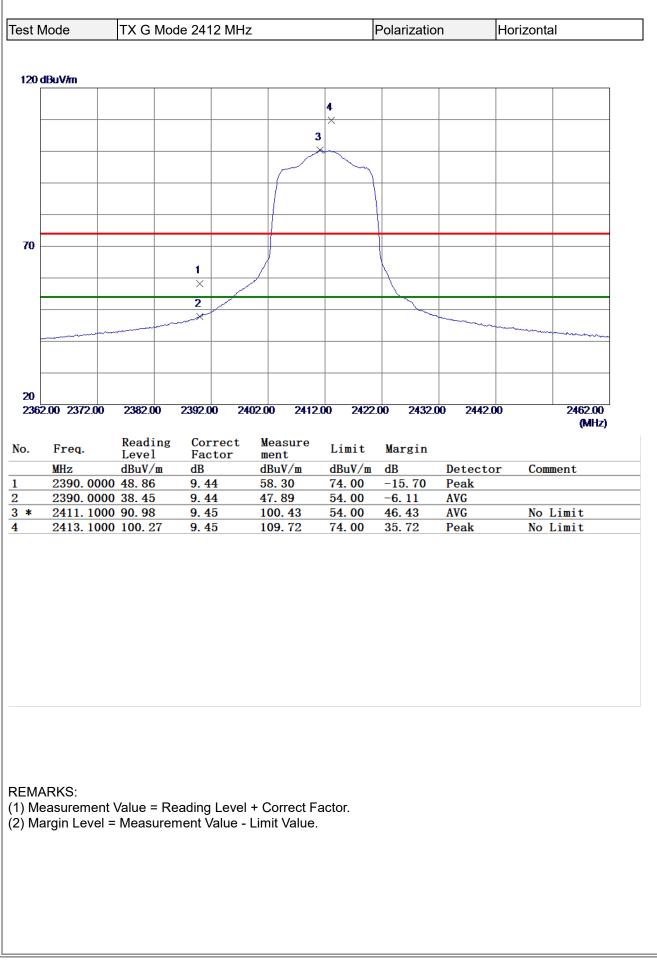
# **B**TL

	I X B MO	de 2437 N	/Hz		F	Polarizatio	n	Horizonta	al
dBuV/m									
			2						
			- ř						
00.00 2700.00	0 4400.00	6100.00	7800.00	9500.0	0 11200	0.00 12900	0.00 14600	0.00	18000.00
		_							(MHz)
Freq.	Reading Level	Correc Factor	ct Me c me	asure nt	Limit	Margin			
MHz 7210 08	dBuV/m 300 41.14	dB 8.63		uV/m . 77	dBuV/m 54.00	dB -4. 23	Detecto AVG	or Com	ment
			43.		JH. UU				
	00 46. 44	8.64		. 08	74.00	-18. 92	Peak		
				. 08					



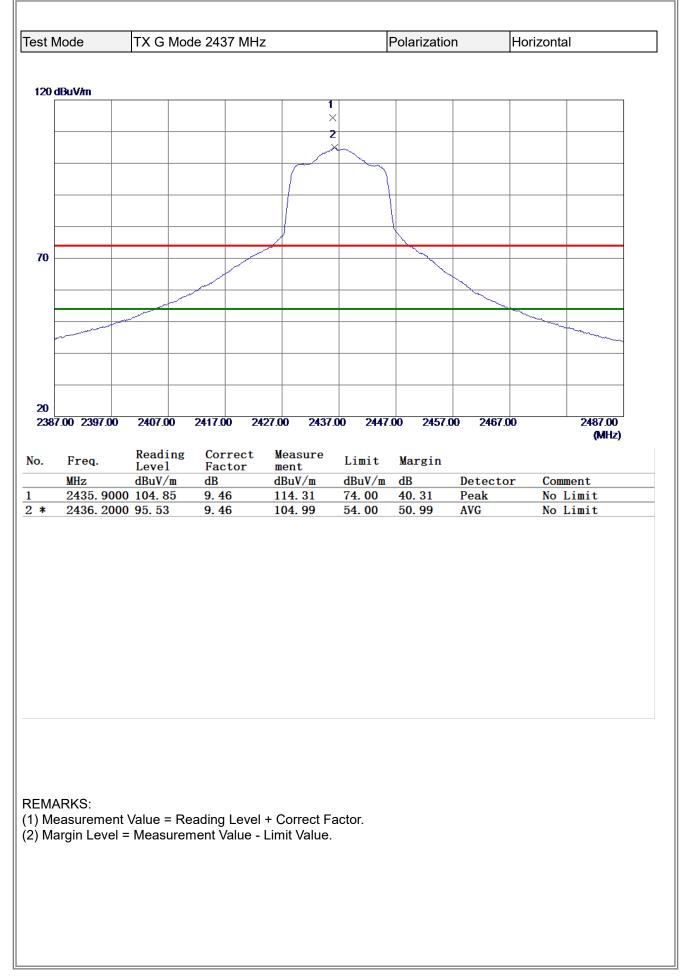
## **B**TL

	Node	TX B Mod	le 2462 l	MHz		ł	Polarizatio	n	Horizonta	al
0	dBuV/m									
[										
				1						
0										
ľ										
	0.00 2700.00	4400.00	6400.00	7000 00	0500	00 44200	1000	00 44000		40000.00
UU	0.00 2700.00	4400.00	6100.00	7800.00	) 9500.	00 11200	0.00 12900	.00 14600	.00	18000.00 (MHz)
	Freq.	Reading	Corre	ct Me	asure	Limit	Margin			
		Level	Facto		ent	LIMIC	Margin			
	MHZ	dRuV/m	dR	dB	11V/m	dBuV/m	dB	Detecto	r Com	mont
	MHz 7384.260	dBuV/m 00 45.68	dB 8. 81		uV/m . 49	dBuV/m 74. 00	dB -19. 51	Detecto Peak	or Com	ment
k		00 45.68		54					or Com	ment
*	7384.260	00 45.68	8.81	54	. 49	74.00	-19. 51	Peak	or Com	ment



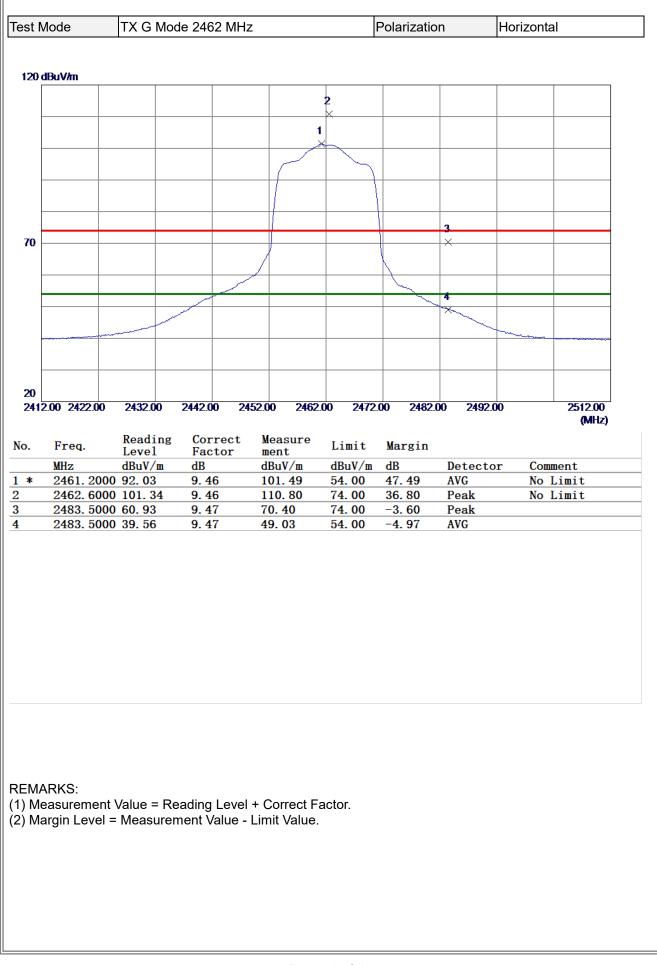
# **B**TL

		TX G I	Mod	e 241	2 MH	lz			Pola	rizatio	n		Horiz	ontal	
dBuV/m															
								_							
						1									
						×									
						2									
						×									
								_							
00.00 270	0.00	4400.0	0	6100.0	0 7	800.00	950	0.00 11	200.00	12000		14600	00		18000.00
0.00 270	0.00	4400.0	0	0100.0	0 1	000.00	300	0.00 11.	200.00	12300	1.00	14000	.00		(MHz)
Freq		Readi	ng		rect		asure	Limit	Ma	rgin					
MHz	•	Level			tor	dDa							-	0	
MHZ								JD. V /	- JD						
7236.	3000	dBuV/1		dB 8.4	6		1V/m 55	dBuV/ 74.00				ecto k	1	Comm	ent
		42. 09 29. 76		8.4 8.4			55	<u>dBuV/</u> 74. 00 54. 00	-2	3. 45 5. 78	Det Pea AVG	k	<u> </u>	Comm	ent
		42.09		8.4		5 <b>0</b> .	55	74.00	-2	3. 45	Pea	k	1		



# BLL

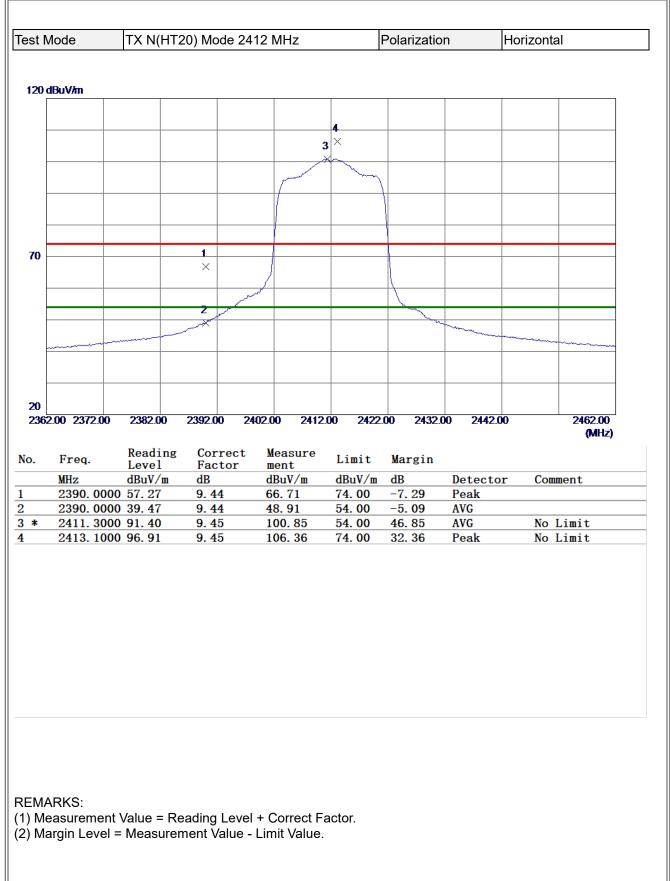
	TX G Mo	ode 2437 M	lHz		Pol	arization		Horizonta	l
0 dBuV/m									
			2						
			×						
)			1						
			×						
00.00 2700.0	00 4400.00	6100.00	7800.00	9500.00	11200.00	12900.0	0 14600	00	18000.00
00.00 21003	50 +100.00	0100.00	1000.00	0.00.00	11200.00	125003			(MHz)
Freq.	Reading Level	Correc Factor	t Mea	isure Li	imit Ma	argin			
MHz	dBuV/m	dB			uV/m dH		Detecto	r Com	lent
	500 38.44	8.63	47.	07 54	.00 -6	5. <b>9</b> 3	AVG		
/313.0	000 50.18	8.64	58.	82 (4	.00 -1	15.18	Peak		
1ARKS: Aeasureme Aargin Lev	ent Value = R el = Measure	eading Lev ment Value	vel + Co e - Limit	rrect Facto Value.	r.				



# **BTL**

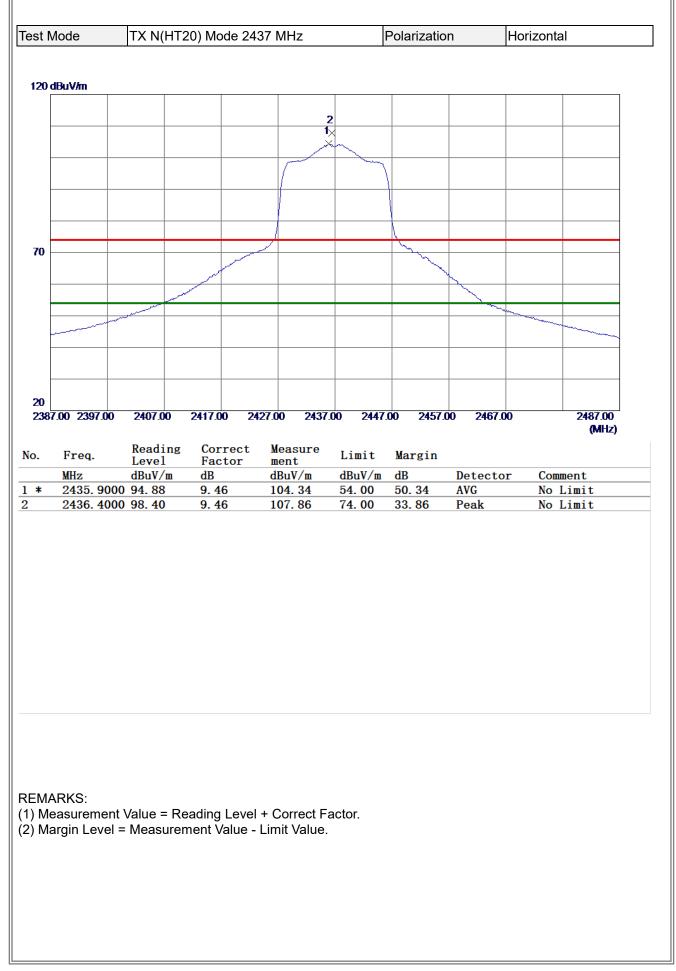
	lode	TX G Mo	de 2462 N	1Hz			Polarizatio	n	Horizon	tal
0 c	lBuV/m									
ŀ										
						_				
╞										
				2 ×						
)										
				1 X						
$\left  \right $										
+										
OČ	0.00 2700.00	4400.00	6100.00	7800.0	0 9500	.00 1120	0.00 12900	0.00 14600	00	18000.00 (MHz)
	_	Reading	Correc	t M	easure					(init iz)
	Freq.	Level	Factor	m	ent	Limit	Margin			
	MHz 7388 550	dBuV/m 00 32.50	dB 8.82		BuV/m 1. 32	dBuV/m 54.00	dB -12.68	Detecto AVG	or Co	mment
		00 45.12	8.82		3.94	74.00	-20.06	Peak		
	NRKS:	nt Value = Re	eading Lev	vel + C	Correct F	actor.				
Ne	easuremer	nt Value = Re I = Measurer								
Ne	easuremer									





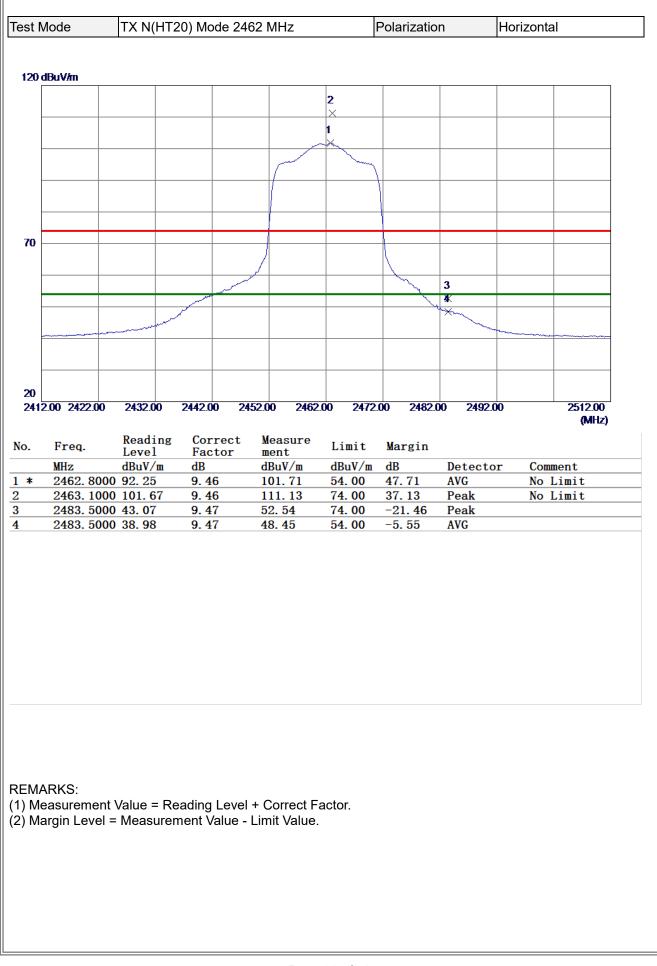
# BLL

st N	Node	TX N(HT2	20) Mo	de 2412	MHz		Polarizatio	n	Horizo	ntal
<b>00</b> ]	dBuV/m									
0				<b>2</b> ×						
				1						
				X						
)										
00	0.00 2700.00	4400.00	6100.00	0 7800	.00 9500	0.00 1120	0.00 12900	0.00 1460	0.00	18000.00 (MHz)
	Freq.	Reading	Cori	rect	Measure	Limit	Margin			
).	Freq. MHz	Reading Level dBuV/m	Corr Fact dB	tor	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detect	or C	omment
		Level dBuV/m 0 30.12	Fact	tor 5	ment			Detect AVG Peak	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
	MHz 7235.350	Level dBuV/m 0 30.12	Fact dB 8.46	tor 5	ment dBuV/m 38.58	dBuV/m 54.00	dB −15. 42	AVG	or C	omment
* M/	MHz 7235.350 7237.850	Level dBuV/m 0 30. 12 0 43. 29	Fac1	tor 5	ment dBuV/m 38.58 51.75	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment
* MA	MHz 7235. 350 7237. 850	Level dBuV/m 0 30. 12 0 43. 29	Fac1 dB 8. 46 8. 46	Level +	ment dBuV/m 38.58 51.75 Correct F	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment
* EM/ Me	MHz 7235.350 7237.850	Level dBuV/m 0 30. 12 0 43. 29	Fac1 dB 8. 46 8. 46	Level +	ment dBuV/m 38.58 51.75 Correct F	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment
* EM/ Me	MHz 7235. 350 7237. 850	Level dBuV/m 0 30. 12 0 43. 29	Fac1 dB 8. 46 8. 46	Level +	ment dBuV/m 38.58 51.75 Correct F	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment
* EM/ Me	MHz 7235. 350 7237. 850	Level dBuV/m 0 30. 12 0 43. 29	Fac1 dB 8. 46 8. 46	Level +	ment dBuV/m 38.58 51.75 Correct F	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment
) Me	MHz 7235. 350 7237. 850	Level dBuV/m 0 30. 12 0 43. 29	Fac1 dB 8. 46 8. 46	Level +	ment dBuV/m 38.58 51.75 Correct F	dBuV/m 54.00 74.00	dB −15. 42	AVG	or C	omment



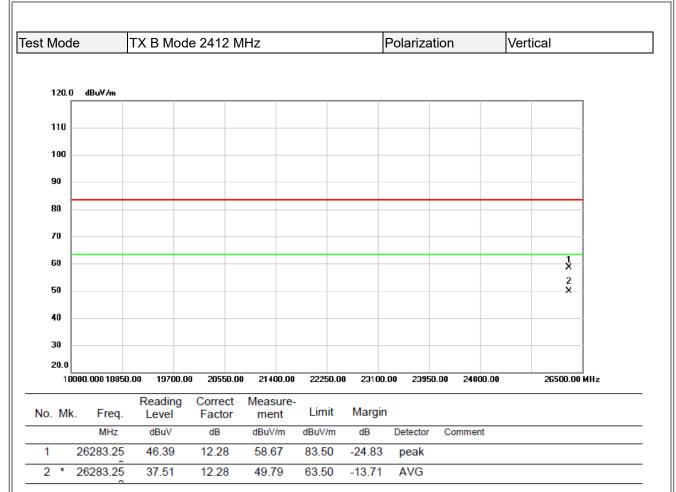
# **B**TL

	lode	TX N(HT	20) Mode 2	2437 MHz		Polarizatio	n	Horizon	al
)0 d	BuV/m								
-									
				2					
-				×					
50 -				1					
				×					
-									
-									
0									
1000	.00 2700.00	4400.00	6100.00	7800.00 9500	.00 1120	0.00 12900	0.00 14600	0.00	18000.00 (MHz)
).	Freq.	Reading	Correct	Measure	Limit	Margin			
J.	MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m		Detecto	or Cor	ment
*	7309. 950		8.63	44. 15	54. 00	-9.85	AVG		шепс
	7313. 250	0 46.63	8.64	55.27	74.00	-18.73	Peak		



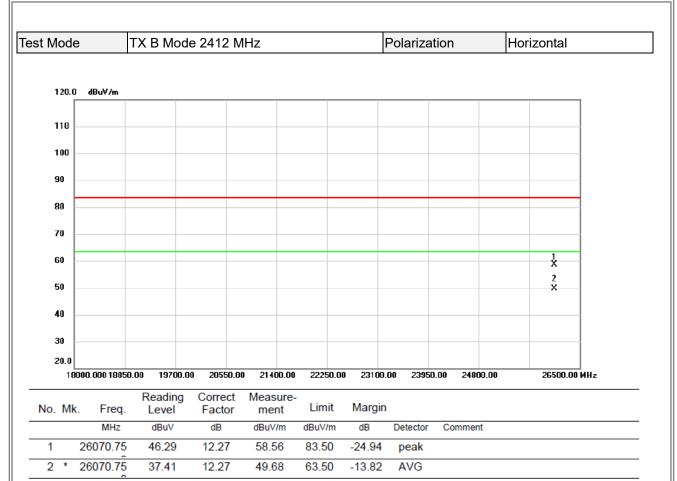
# **B**TL

	Node	TX N(HT	20) Mode	2462	MHz	l	Polarizatio	on	Horizor	ntal
00	dBuV/m						_			
				1						
50				Х						
				2						
						-			_	
0	0.000 00000			7000 0					0.00	40000.00
100	0.00 2700.00	4400.00	6100.00	7800.0	0 9500	.00 1120	0.00 1290	0.00 1460	0.00	18000.00 (MHz)
о.	Freq.	Reading	Corre	at M	r					
				CL M	leasure	Limit	Vorgin			
		Level	Facto	or m	lent	Limit	Margin	Detect		
	MHz	dBuV/m	Facto dB	or m d	lent BuV/m	dBuV/m	dB	Detect Peak	or Co	omment
		dBuV/m 00 44. 43	Facto	or m d 5	lent			Detect Peak AVG	or Co	omment
1 2 *	MHz 7385.750	dBuV/m 00 44. 43	Facto dB 8.81	or m d 5	ent BuV/m 3.24	dBuV/m 74.00	dB -20. 76	Peak	or Co	omment



#### REMARKS:

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



#### **REMARKS**:

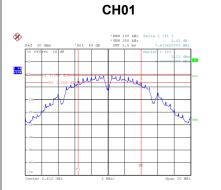
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

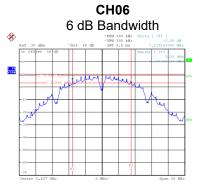


### **APPENDIX E - BANDWIDTH**

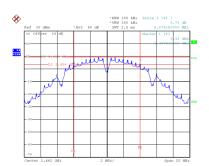


Test Mode	e TX E	3 Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.620	12.080	0.5	Complies
06	2437	7.119	12.240	0.5	Complies
11	2462	8.079	12.240	0.5	Complies

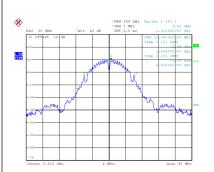




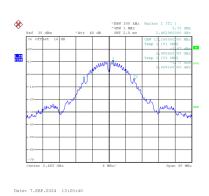
CH11



Date: 7.SEP.2024 12:00:09



Date: 7.SEP.2024 13:20:34



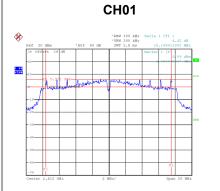
Date: 7.SEP.2024 12:00:16

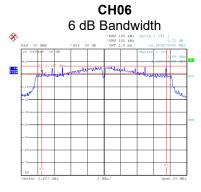
Date: 7.SEP.2024 13:18:25

Date: 7.SEP.2024 13:18:18

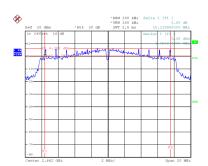


Test Mode	e TX (	G Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.200	17.040	0.5	Complies
06	2437	15.090	17.040	0.5	Complies
11	2462	15.240	16.960	0.5	Complies

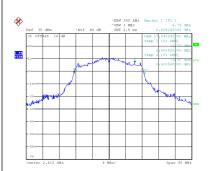




CH11



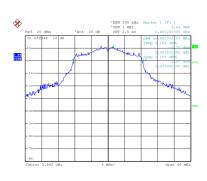
Date: 7.SEP.2024 13:22:48



99 % Occupied Bandwidth

Date: 7.SEP.2024 13:35:16

Date: 7.SEP.2024 13:35:23



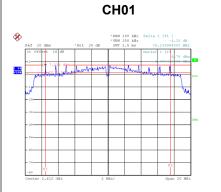
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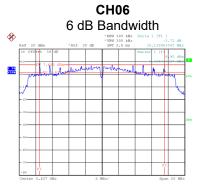
Date: 7.SEP.2024 13:33:22

Date: 7.SEP.2024 13:33:15

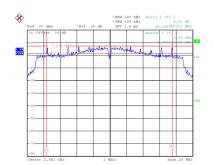


Test Mode TX N(HT20) Mode							
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result		
01	2412	15.140	18.320	0.5	Complies		
06	2437	15.140	18.320	0.5	Complies		
11	2462	15.200	18.160	0.5	Complies		

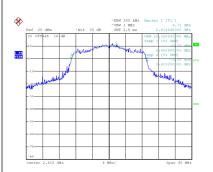




CH11

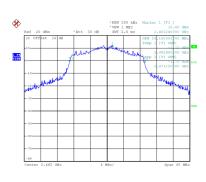


Date: 7.SEP.2024 13:37:26



99 % Occupied Bandwidth 1 PE VIEW

Date: 7.SEP.2024 13:44:03



Date: 7.SEP.2024 13:37:33

Date: 7.SEP.2024 13:42:08

Date: 7.SEP.2024 13:42:01

Þ

Date: 7.SEP.2024 13:44:10



### **APPENDIX F - MAXIMUM OUTPUT POWER**



Test Mode TX B Mode								
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result	
01	2412	18.35	0.00	18.35	30.00	1.0000	Complies	
06	2437	16.53	0.00	16.53	30.00	1.0000	Complies	
11	2462	16.49	0.00	16.49	30.00	1.0000	Complies	

Test Mode TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.11	0.31	13.42	30.00	1.0000	Complies
06	2437	17.12	0.31	17.43	30.00	1.0000	Complies
11	2462	14.24	0.31	14.55	30.00	1.0000	Complies

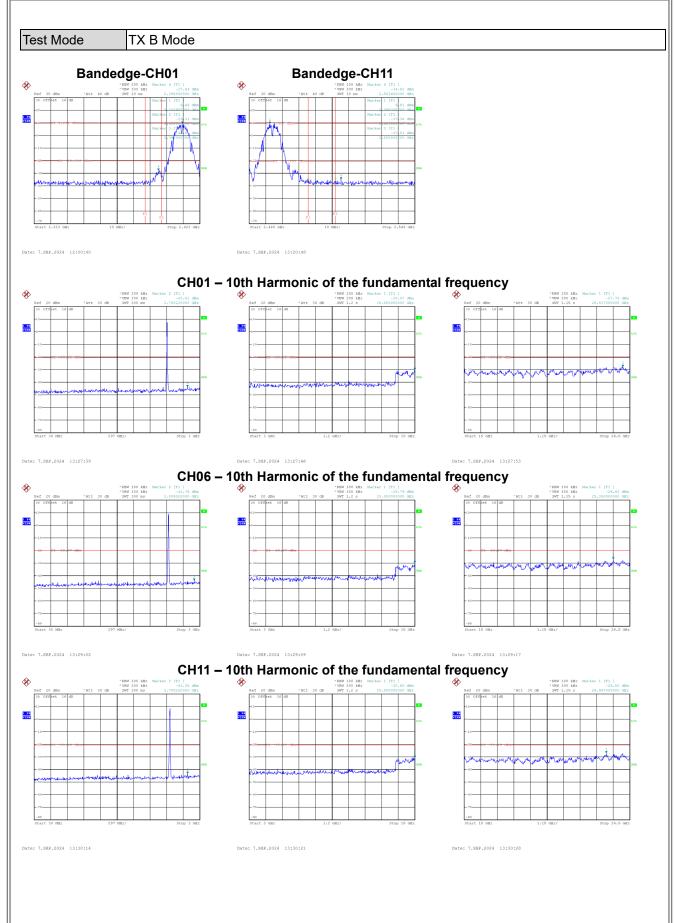
Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.58	0.33	13.91	30.00	1.0000	Complies
06	2437	17.69	0.33	18.02	30.00	1.0000	Complies
11	2462	14.61	0.33	14.94	30.00	1.0000	Complies

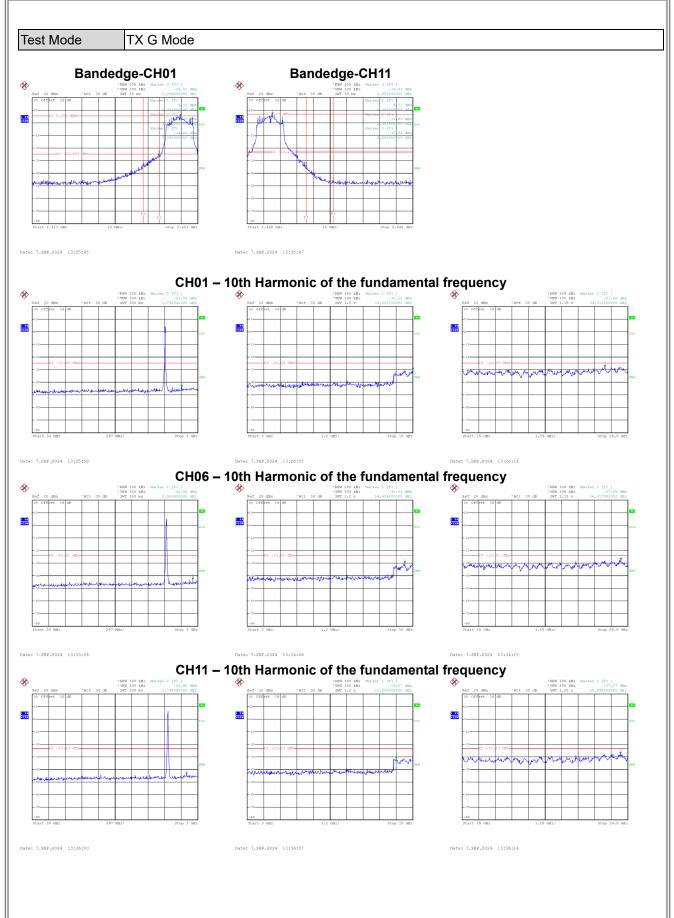


### **APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

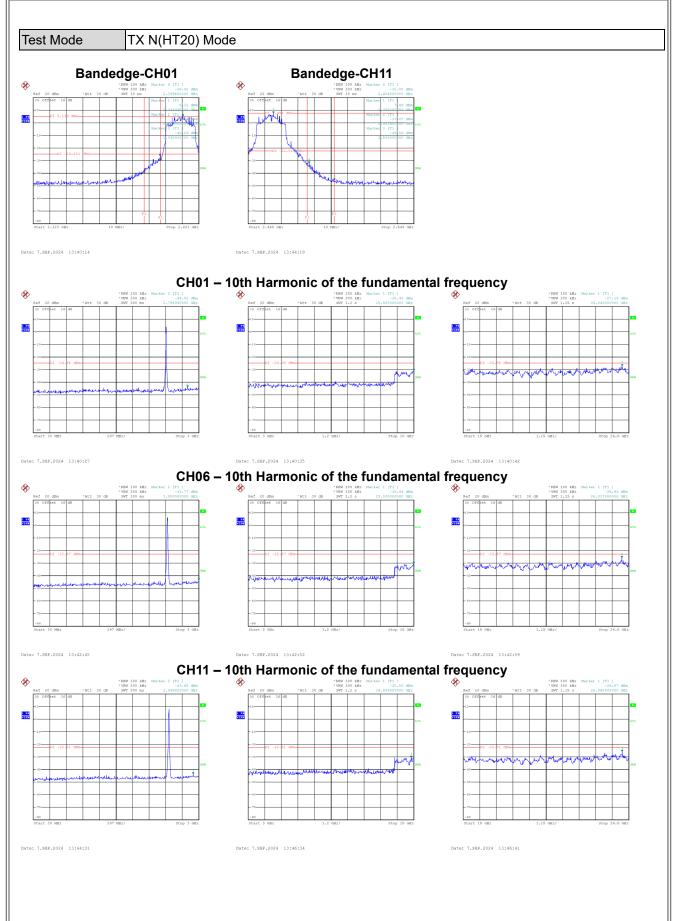














### **APPENDIX H - POWER SPECTRAL DENSITY**



Test Mode	TX B Mode			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-4.86	8.00	Complies
06	2437	-4.65	8.00	Complies
11	2462	-5.31	8.00	Complies





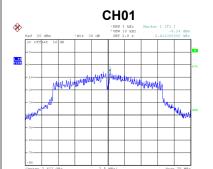


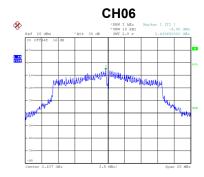
Date: 7.SEP.2024 12:01:19

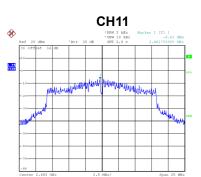
Test Mode

TX G Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.24	8.00	Complies
06	2437	-5.90	8.00	Complies
11	2462	-6.63	8.00	Complies







Date: 7.SEP.2024 13:48:43

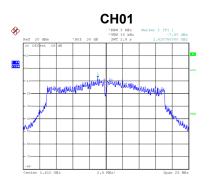
Date: 7.SEP.2024 13:34:23

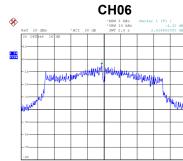
Date: 7.SEP.2024 13:36:23



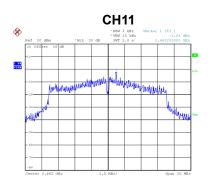
#### Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.50	8.00	Complies
06	2437	-4.32	8.00	Complies
11	2462	-3.64	8.00	Complies





Date: 7.SEP.2024 13:43:08



Date: 7.SEP.2024 13:49:47

Date: 7.SEP.2024 13:40:50

End of Test Report