

FCC Radio Test Report

FCC ID: 2AX5J-E3

This report concerns: Original Grant

Project No. Equipment Brand Name	2102C274C 1800M Wi-Fi 6 Dual-band Mesh Router RUJJE RUJE SREYEE REYEE
Test Model	: RG-E3
Series Model	: N/A
Applicant	: Ruijie Networks Co.,Ltd.
Address	: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Manufacturer	: Ruijie Networks Co.,Ltd.
Address	: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Date of Receipt	: Jul. 28, 2021
Date of Test	: Aug. 10, 2021 ~ Sep. 04, 2021
Issued Date	: Sep. 10, 2021
Report Version	: R00
Test Sample	: Engineering Sample No.: DG2021072782 for conducted, DG2021072783 for radiated.
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.

reldon. Uu

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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** 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.



Table of Contents	Page
REPORT ISSUED HISTORY	6
1. SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
2 . GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 DESCRIPTION OF TEST MODES	12
2.3 PARAMETERS OF TEST SOFTWARE	14
2.4 DUTY CYCLE	15
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	17
2.6 SUPPORT UNITS	17
3 . AC POWER LINE CONDUCTED EMISSIONS	18
3.1 LIMIT	18
3.2 TEST PROCEDURE	18
3.3 DEVIATION FROM TEST STANDARD	18
3.4 TEST SETUP	19
3.5 EUT OPERATION CONDITIONS	19
3.6 TEST RESULTS	19
4. RADIATED EMISSIONS	20
4.1 LIMIT	20
4.2 TEST PROCEDURE	21
4.3 DEVIATION FROM TEST STANDARD	22
4.4 TEST SETUP	22
4.5 EUT OPERATION CONDITIONS	23
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	23
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	23
4.8 TEST RESULTS - ABOVE 1000 MHZ	23
5.BANDWIDTH	24
5.1 LIMIT	24
5.2 TEST PROCEDURE	24
5.3 DEVIATION FROM STANDARD	24
5.4 TEST SETUP	24



Table of Contents	Page
5.5 EUT OPERATION CONDITIONS	24
5.6 TEST RESULTS	24
6 . MAXIMUM OUTPUT POWER	25
6.1 LIMIT	25
6.2 TEST PROCEDURE	25
6.3 DEVIATION FROM STANDARD	25
6.4 TEST SETUP	25
6.5 EUT OPERATION CONDITIONS	25
6.6 TEST RESULTS	25
7 . CONDUCTED SPURIOUS EMISSIONS	26
7.1 LIMIT	26
7.2 TEST PROCEDURE	26
7.3 DEVIATION FROM STANDARD	26
7.4 TEST SETUP	26
7.5 EUT OPERATION CONDITIONS	26
7.6 TEST RESULTS	26
8 . POWER SPECTRAL DENSITY	27
8.1 LIMIT	27
8.2 TEST PROCEDURE	27
8.3 DEVIATION FROM STANDARD	27
8.4 TEST SETUP	27
8.5 EUT OPERATION CONDITIONS	27
8.6 TEST RESULTS	27
9 . MEASUREMENT INSTRUMENTS LIST	28
10 . EUT TEST PHOTO	30
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	35
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	38
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	43
APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ	46
APPENDIX E - BANDWIDTH	119
APPENDIX F - MAXIMUM OUTPUT POWER	126
APPENDIX G - CONDUCTED SPURIOUS EMISSIONS	147



Table of Contents

Page

APPENDIX H - POWER SPECTRAL DENSITY

160



REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 10, 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. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China. BTL's Test Firm Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

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)
DG-C02	CISPR	150kHz ~ 30MHz	2.68

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	-	3.02
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	Н	3.32
		200MHz ~ 1,000MHz	V	4.08
DG-CB03	CISPR	200MHz ~ 1,000MHz	Н	3.96
		1GHz ~ 6GHz	I	3.80
		6GHz ~ 18GHz	I	4.82
		18GHz ~ 26.5GHz	I	3.62
		26.5GHz ~ 40GHz	-	4.00

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	±0.08 °C
Humidity	±1.5%

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	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9kHz to 30 MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30MHz to 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-Above 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Bandwidth	21°C	63%	DC 12V	Jesse Wang
Maximum Output Power	22°C	49%	DC 12V	Silly Zheng
Conducted Spurious Emissions	21°C	63%	DC 12V	Jesse Wang
Power Spectral Density	21°C	63%	DC 12V	Jesse Wang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	1800M Wi-Fi 6 Dual-band Mesh Router				
Brand Name					
Test Model	RG-E3				
Series Model	N/A				
Model Difference(s)	N/A				
Power Source	DC voltage supplied from AC adapter. Model: RA040-1201500US				
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A MAX O/P:12.0V === 1.5A 18.0W				
Operation Frequency	2412 MHz ~ 2462 MHz				
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA				
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps				
Maximum Peak Output Power _Non Beamforming	IEEE 802.11ax(HE20): 28.88 dBm (0.7727 W)				
Maximum Peak Output Power _Beamforming	IEEE 802.11n(HT40): 28.33 dBm (0.6808 W)				
Maximum Average Output Power _Non Beamforming	IEEE 802.11b: 23.32 dBm (0.2148 W)				
Maximum Average Output Power _Beamforming	IEEE 802.11n(HT40): 16.20 dBm (0.0417 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 -	CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel Frequency Channel Frequency Channel Frequency Channel Freque						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:

I	Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
	1	SLEing INTEL-TECH	SLEingA201060200	Dipole	N/A	5.49
	2	SLEing INTEL-TECH	SLEingA201060200	Dipole	N/A	5.49

Note:

 This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=5.49. For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
 So the Directional gain=5.40 + 40 + 90 + 100

So the Directional gain= G_{ANT} +Array Gain= G_{ANT} +10log(N_{ANT} / N_{SS})dBi=5.49+10log(2/1)dBi=8.50. Then, the power spectral density limit is 8-(8.50-6)=5.50.

- 2) Beamforming Gain: 2dB. Then, Directional gain=5.49+2=7.49. So the output power limit is 30-(7.49-6)=28.51.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For Non Beamforming:

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

For Beamforming:

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

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description	
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N(HT20) Mode Channel 01/06/11	
Mode 4	TX N(HT40) Mode Channel 03/06/09	
Mode 5	TX AX(HE20) Mode Channel 01/06/11	
Mode 6	TX AX(HE40) Mode Channel 03/06/09	
Mode 7	TX AX(HE20) Mode Channel 11	

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

AC power line conducted emissions test			
Final Test Mode Description			
Mode 7	TX AX(HE20) Mode Channel 11		

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

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

Maximum Output Power test_Non Beamforming		
Final Test Mode Description		
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N(HT20) Mode Channel 01/06/11	
Mode 4	TX N(HT40) Mode Channel 03/06/09	
Mode 5	TX AX(HE20) Mode Channel 01/06/11	
Mode 6	TX AX(HE40) Mode Channel 03/06/09	

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

Other Conducted test_Non Beamforming			
Final Test Mode Description			
Mode 1	TX B Mode Channel 01/06/11		
Mode 2	TX G Mode Channel 01/06/11		
Mode 3	TX N(HT20) Mode Channel 01/06/11		
Mode 4	TX N(HT40) Mode Channel 03/06/09		
Mode 5	TX AX(HE20) Mode Channel 01/06/11		
Mode 6	TX AX(HE40) Mode Channel 03/06/09		





NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AX(HE20) Mode Channel 11 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

...

2.3 PARAMETERS OF TEST SOFTWARE

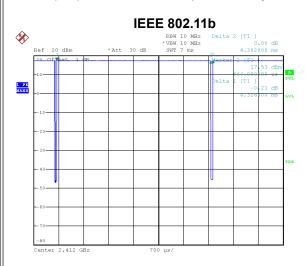
Non Beamforming			
Test Software Version	Package_UIv2.33_DLLv6.28		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	18	17	17.5
IEEE 802.11g	14.5	14.5	14.5
IEEE 802.11n(HT20)	14.5	14.5	14.5
IEEE 802.11ax(HE20)	14.5	14.5	14.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	15	15	15
IEEE 802.11ax(HE40)	14.5	14.5	14.5

Beamforming			
Test Software Version	Package_Ulv2.33_DLLv6.28		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	14	14	14
IEEE 802.11ax(HE20)	14	14	14
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	14.5	14.5	14.5
IEEE 802.11ax(HE40)	14	14	14



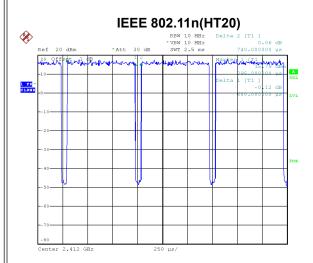
2.4 DUTY CYCLE

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.



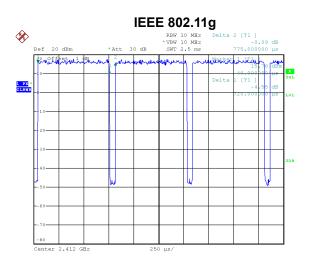
Date: 10.AUG.2021 17:05:11

Duty cycle = 4.326 ms / 4.382 ms = 98.72% Duty Factor = 10 log(1/Duty cycle) = 0.00



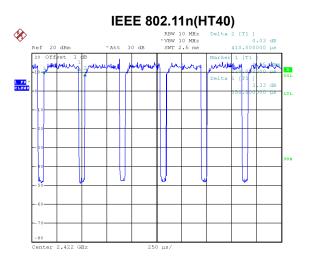
Date: 10.AUG.2021 17:03:15

Duty cycle = 0.680 ms / 0.740 ms = 91.89%Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.37$



Date: 10.AUG.2021 17:02:58

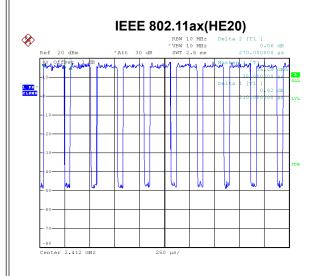
Duty cycle = 0.720 ms / 0.775 ms = 92.90%Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.32$

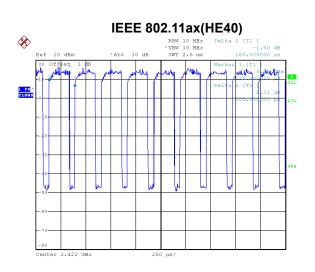


Date: 10.AUG.2021 17:03:32

Duty cycle = 0.350 ms / 0.410 ms = 85.37% Duty Factor = 10 log(1/Duty cycle) = 0.69







Duty cycle = 0.205 ms / 0.260 ms = 78.85%

Duty Factor = 10 log(1/Duty cycle) = 1.03

Date: 10.AUG.2021 17:03:58

Duty cycle = 0.210 ms / 0.270 ms = 77.78% Duty Factor = 10 log(1/Duty cycle) = 1.09

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.

Date: 10.AUG.2021 17:04:23

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 1389 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 1471 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2857 Hz.

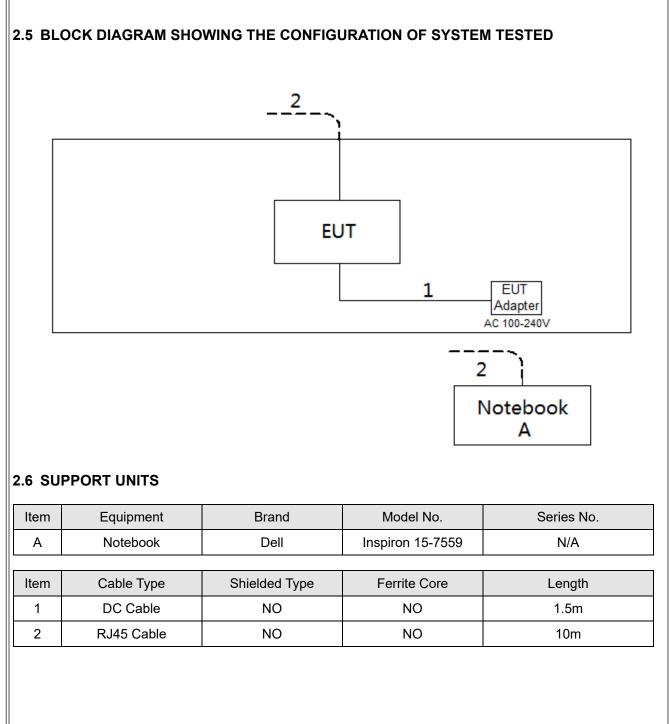
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4762 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4878 Hz.







3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

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

NOTE:

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

3.2 TEST PROCEDURE

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

The following table is the setting of the receiver:

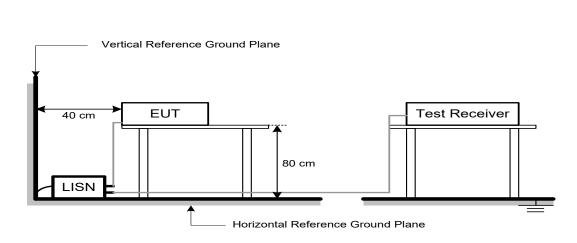
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.



3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



4. RADIATED EMISSIONS

4.1 LIMIT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)		
		Peak	Average
	Above 1000	74	54

NOTE:

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

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

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



4.2 TEST PROCEDURE

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

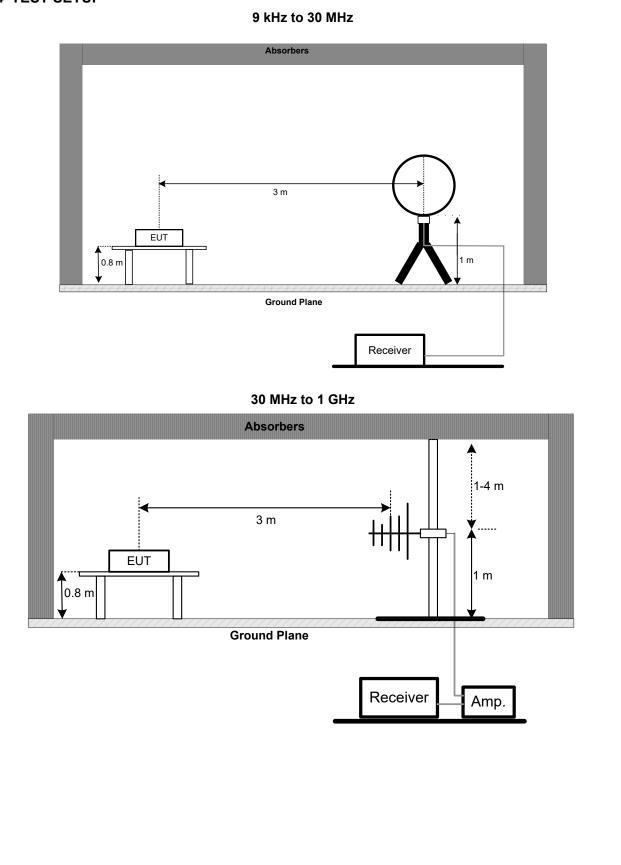
Spectrum Parameters	Setting	
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz	
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz	
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz	
Spectrum Parameters	Setting	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 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		



4.3 DEVIATION FROM TEST STANDARD

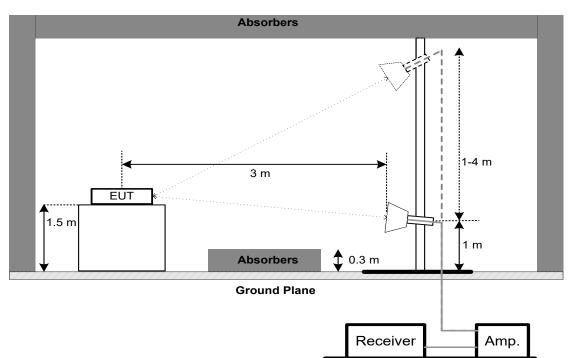
No deviation.

4.4 TEST SETUP





Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / 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

- 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:

Setting	
> Measurement Bandwidth	
100 kHz	
300 kHz	
Peak	
Max Hold	
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

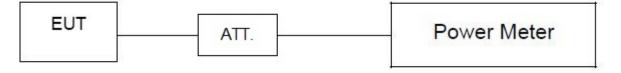
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 and 11.9.2.3.1 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	Section Test Item	
FCC 15.247(e)	Power Spectral Density	8 dBm
FCC 15.247(e)	Fower Spectral Density	(in any 3 kHz)

8.2 TEST PROCEDURE

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

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

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022	
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022	
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 09, 2022	
7	643 Shield Room	ETS	6*4*3m	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	EM	EM-6876-1	230	Apr. 28, 2022
2	Cable	N/A	RG 213/U	N/A	May 27, 2022
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022
3	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 20, 2022
5	Controller	СТ	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
6	Controller	СТ	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 16, 2021
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
11	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022



Bandwidth & Conducted Spurious Emissions & Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022	
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022	
3	RF Cable	Tongkaichuan	N/A	N/A	N/A	
4	DC Block	Mini	N/A	N/A	N/A	

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	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.





AC Power Line Conducted Emissions Test Photos







Radiated Emissions Test Photos

9 kHz to 30 MHz



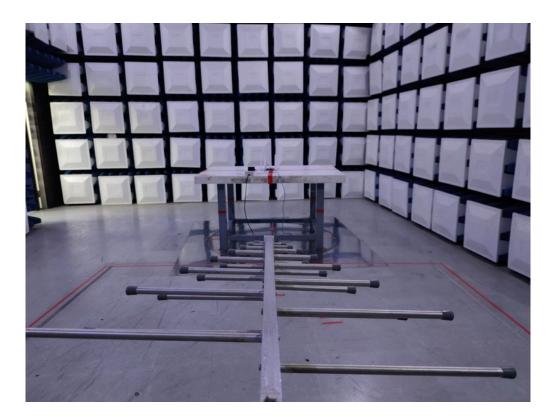




Radiated Emissions Test Photos

30 MHz to 1 GHz

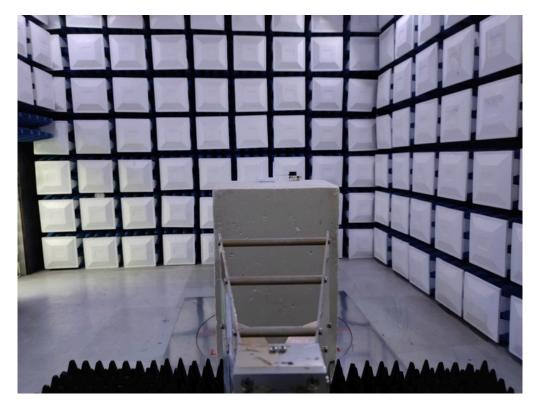






Radiated Emissions Test Photos

Above 1 GHz





Conducted Test Photos

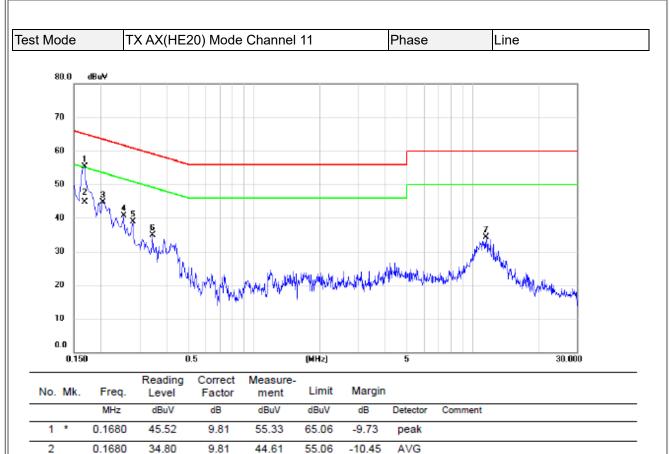






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





REMARKS:

3

4

5

6

7

0.2040

0.2535

0.2805

0.3435

11.5215

34.89

30.75

28.95

24.99

23.59

9.91

9.87

9.88

9.89

10.72

44.80

40.62

38.83

34.88

34.31

63.45

61.64

60.80

59.12

60.00

-18.65

-21.02

-21.97

-24.24

-25.69

peak

peak

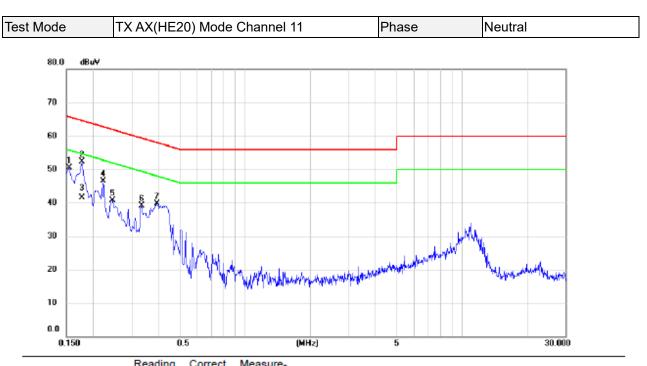
peak

peak

peak

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





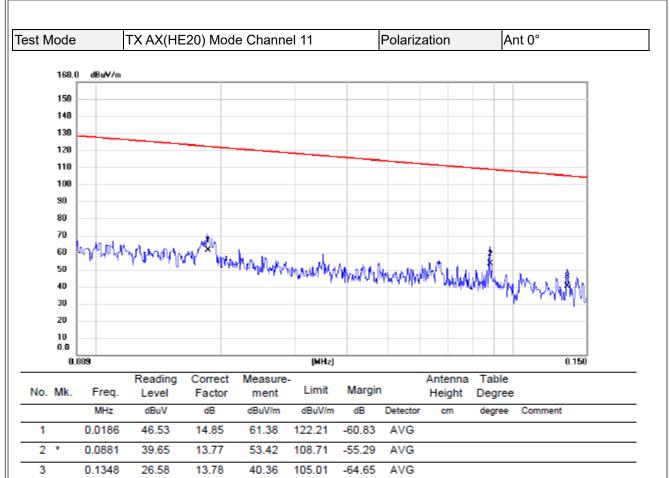
No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	40.66	9.77	50.43	65.75	-15.32	peak	
2	*	0.1770	42.33	9.92	52.25	64.63	-12.38	peak	
3		0.1770	31.50	9.92	41.42	54.63	-13.21	AVG	
4		0.2220	36.50	9.99	46.49	62.74	-16.25	peak	
5		0.2445	30.66	9.97	40.63	61.94	-21.31	peak	
6		0.3345	29.18	10.02	39.20	59.34	-20.14	peak	
7		0.3930	29.66	10.07	39.73	58.00	-18.27	peak	

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



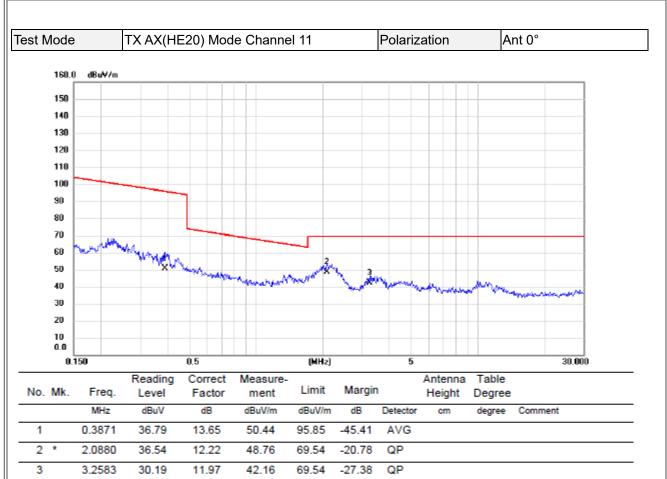
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ





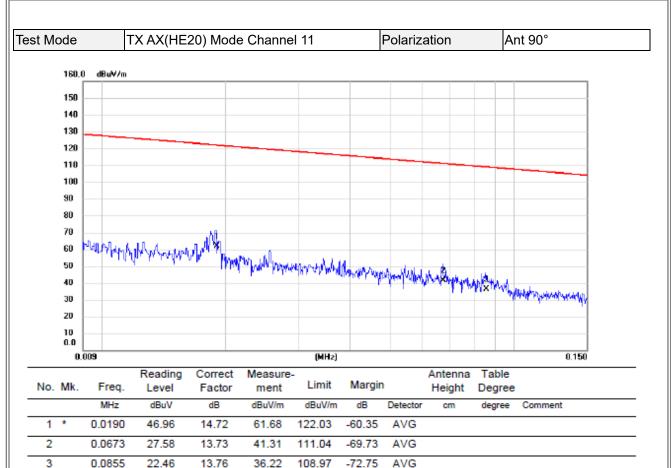
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





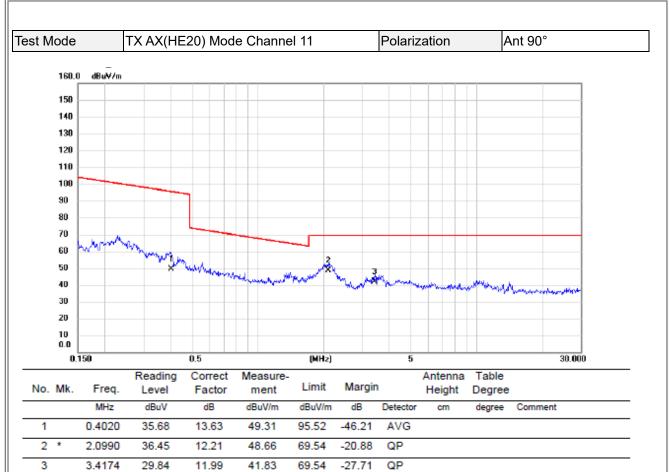
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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

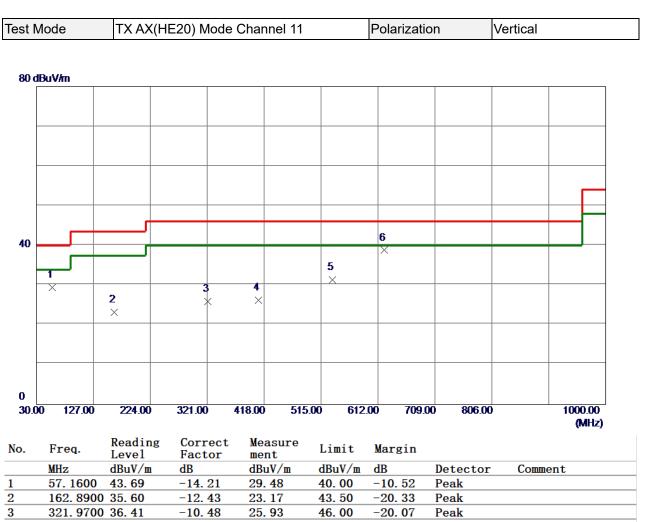




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



1	51.1000 45.05	17.21	23.40	40.00	10.02	Tean	
2	162.8900 35.60	-12.43	23.17	43. 50	-20. 33	Peak	
3	321.9700 36.41	-10.48	25.93	46.00	-20.07	Peak	
4	408.7850 34.75	-8.54	26.21	46.00	-19.79	Peak	
5	534.8850 37.49	-6.09	31.40	46.00	-14. 60	Peak	
6 *	622.6700 42.98	-4. 18	38.80	46.00	-7. 20	Peak	

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



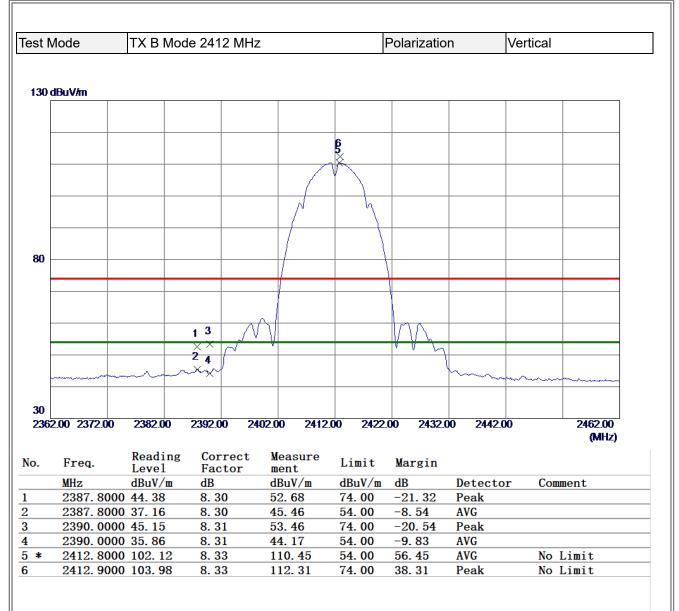
Iest IV	lode	TX AX(H	E20) Mode	Chann	el 11		Polarizat	ion	Horizontal
80 di	BuV/m								
_									
_									
40			3	4 ×	5 ×		6 ×		
	1 ×	2 ×							
_									
0									
30.00	0 127.00	224.00	321.00	418.00	515.00	612.	.00 709.	00 806.00	1000.00 (MHz)
No.	Freq.	Reading Level	Correct Factor	Meas ment		Limit	Margin		
	MHz	dBuV/m	dB	dBuV		lBuV/m	dB	Detector	Comment
1 2	82.8650	40.66 42.29	-18.55 -14.91	22.1		10.00 16.00	-17.89 -18.62	Peak Peak	

4	217.0930 42.29	-14.91	21.30	40.00	-10.02	геак	
3 *	324.8800 50.32	-10. 43	39.89	46.00	-6.11	Peak	
4	399.0850 47.10	-8.80	38.30	46.00	-7.70	Peak	
5	499.9650 42.06	-6. 54	35.52	46.00	-10. 48	Peak	
6	622.6700 37.60	-4. 18	33.42	46.00	-12.58	Peak	

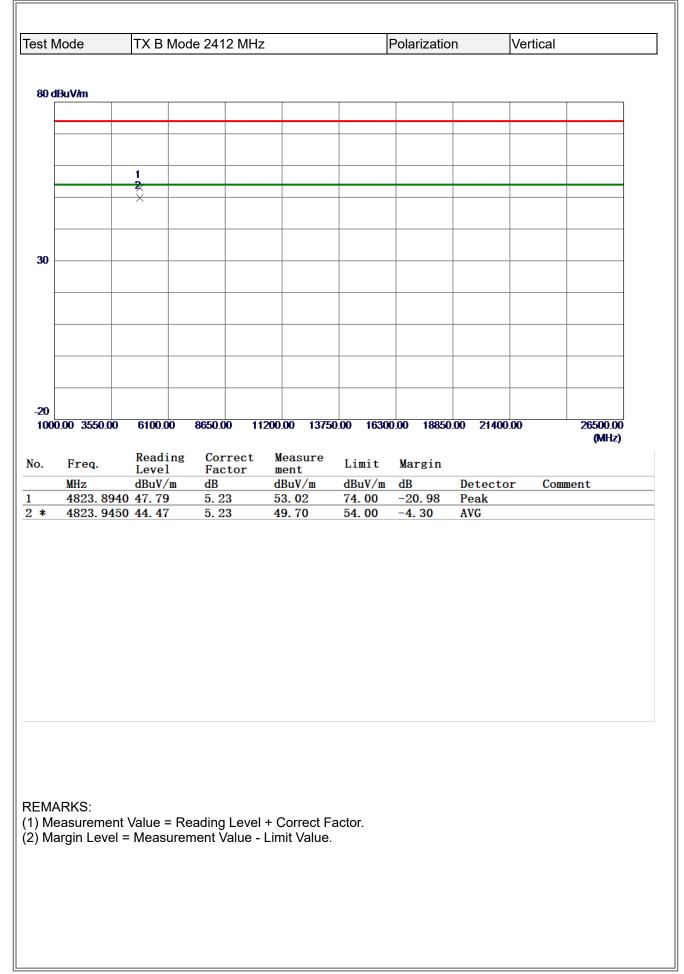
- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

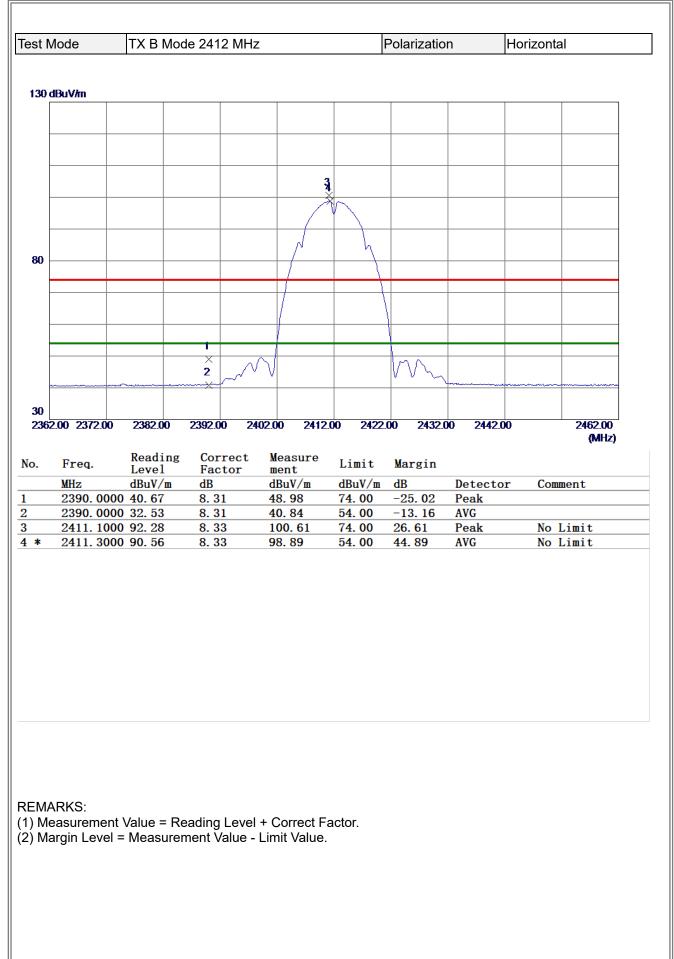


APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

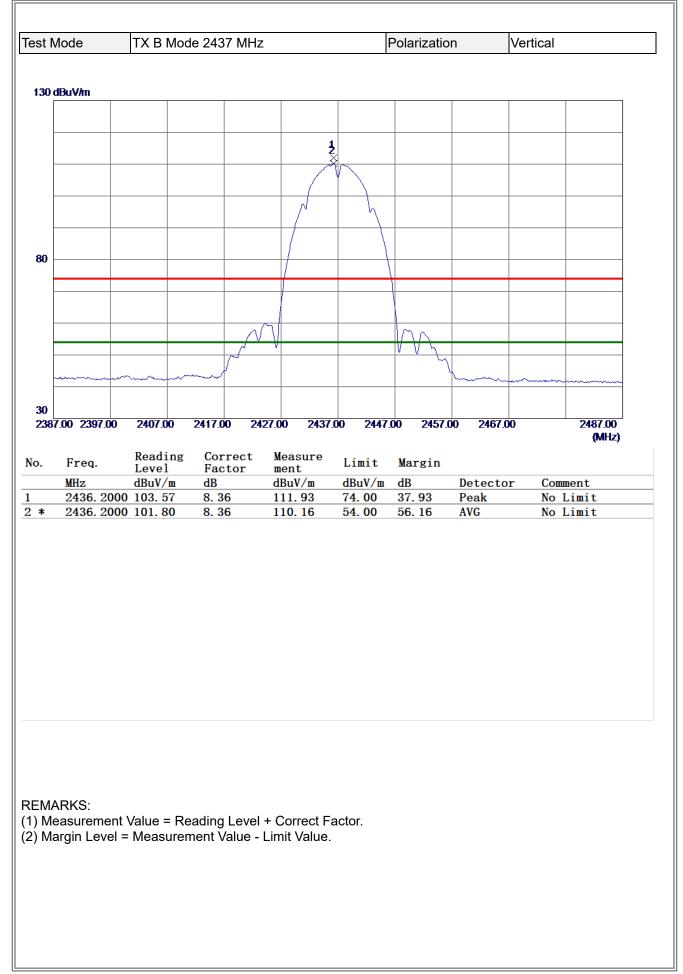


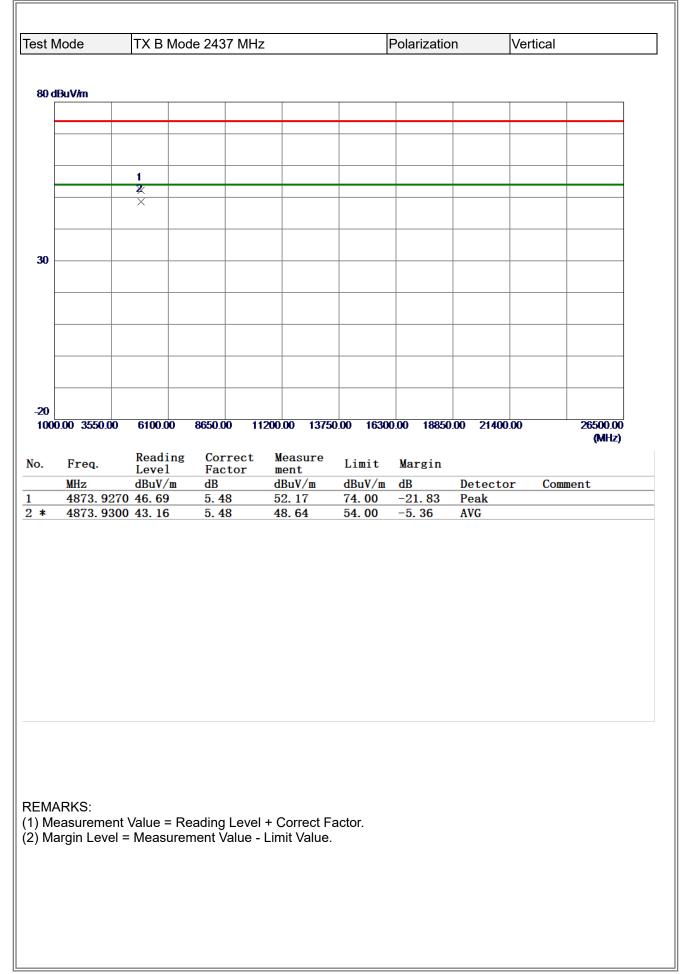
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

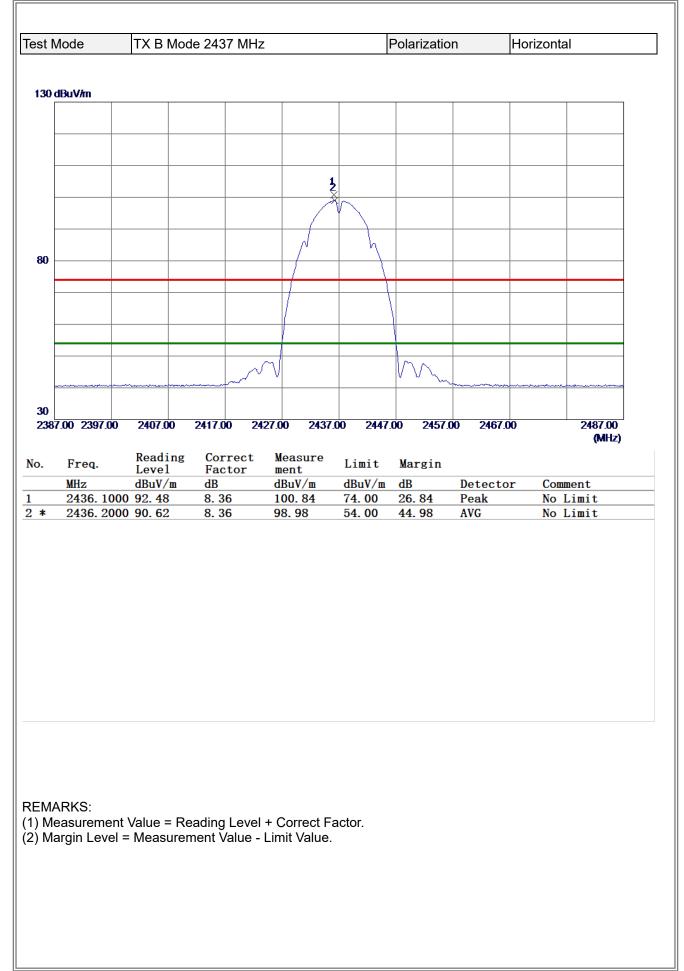




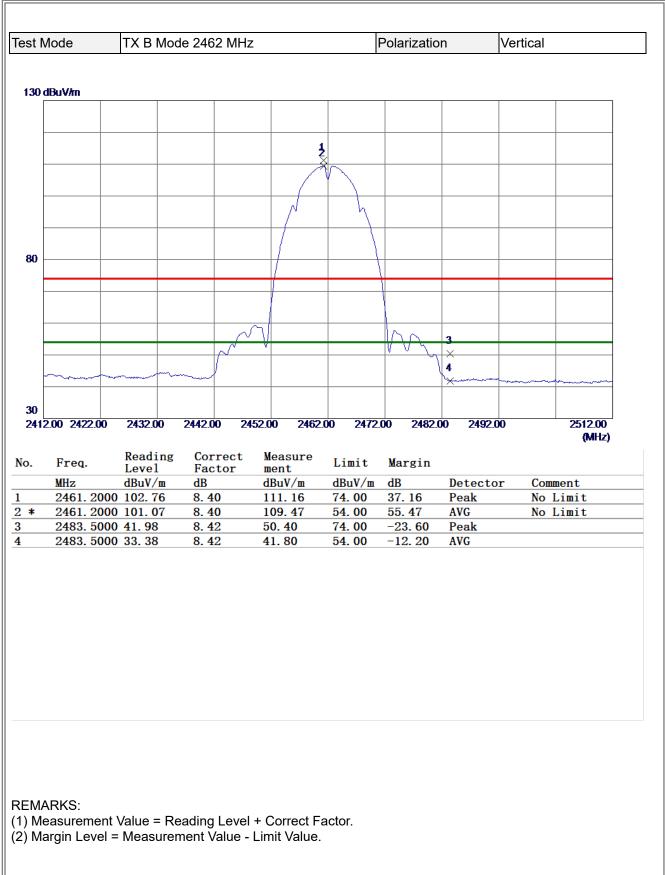
Mode	TX B M	lode 2412 I	MHz		Po	olarizatio	ı	Horizont	al
dBuV/m									
	1								
	2 ×								
	X								
1									
00.00 3550.0	00 6100.00	8650.00	11200.00	13750.00	16300.0	0 18850.	00 21400	.00	26500.00
									(MHz)
									(1011 12.)
Freq.	Readin	ng Corre Facto		ure Li	mit N	Margin			(wiii 12.)
Freq. MHz	Readin Level dBuV/m	Facto		LI		Margin 1B	Detecto	or Com	ment
MHz 4823.8	Level dBuV/m 630 41.77	Facto 1 dB 5.23	r ment dBuV 47.0	/m dB 0 74	uV/m d	B -27. 00	Peak	or Com	
MHz 4823.8	Level dBuV/m	Facto 1 dB	r ment dBuV	/m dB 0 74	uV/m d	B		or Com	
MHz 4823.8	Level dBuV/m 630 41.77	Facto 1 dB 5.23	r ment dBuV 47.0	/m dB 0 74	uV/m d	B -27. 00	Peak	or Com	

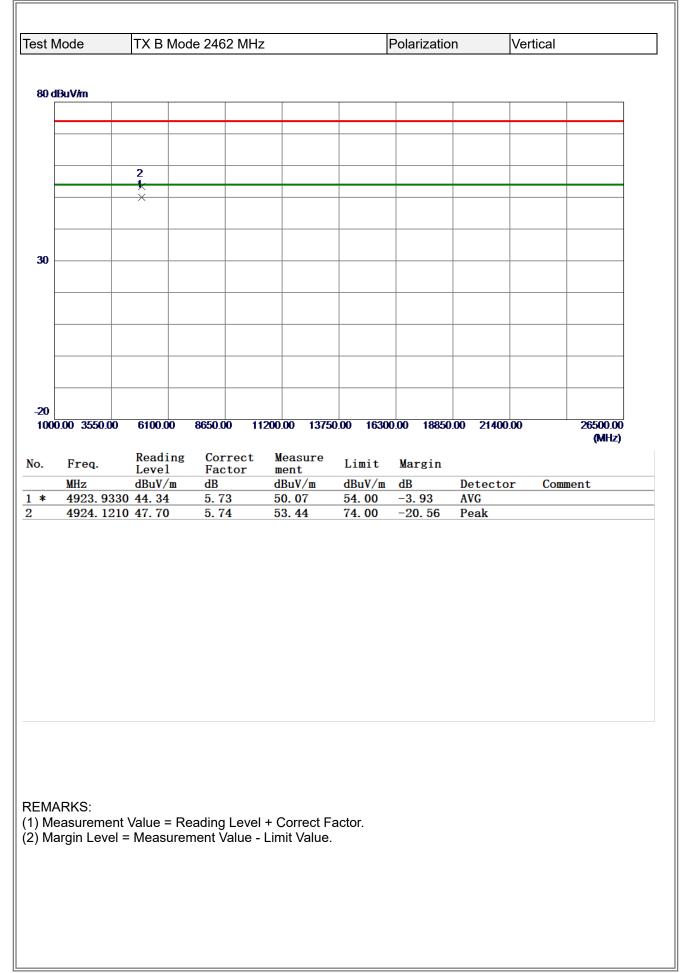


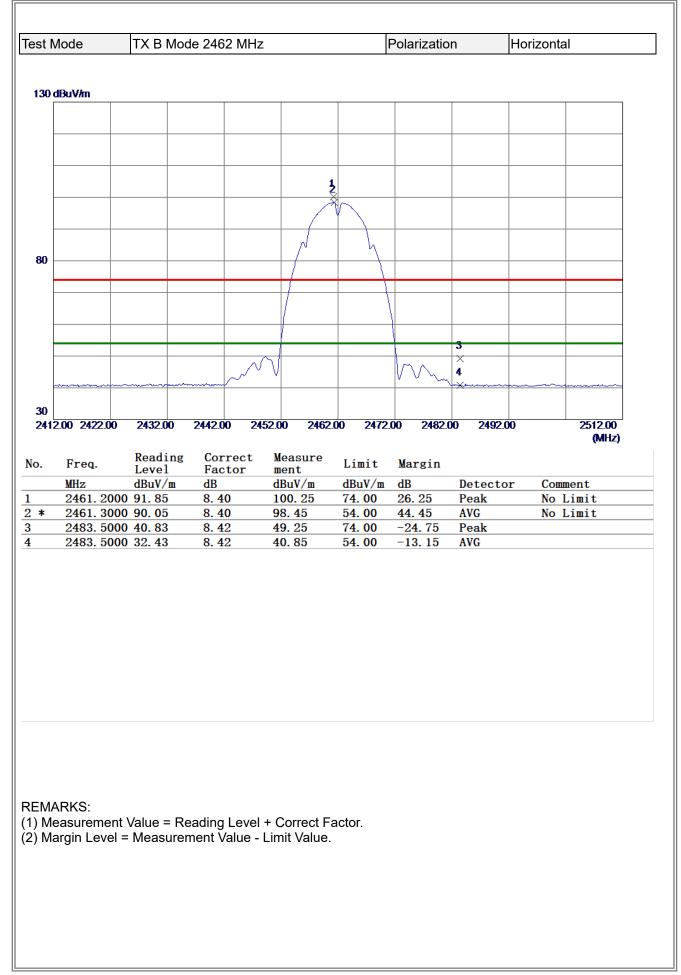




	TX B N	lode 2437 l	MHz		Pol	larizatio	n	Horizont	al
dBuV/m									
	1 ×								
	2 ×								
)									
	-								
00.00 3550.	00 6100.00	8650.00	11200.00	13750.00	16300.00) 18850.	.00 21400	.00	26500.00 (MHz)
	Readin	g Corre	ct Meas	uro					(minre)
Freq.	Reauti								
	Level	Facto	r ment	LI		argin			
MHz	dBuV/m	Facto dB	or ment dBuV	/m dB	uV/m dl	В	Detecto	or Cor	ment
MHz 4873.9		Facto	r ment	/m dB 5 74	uV/m dl . 00 -2		Detecto Peak AVG	or Cor	nment
MHz 4873.9	dBuV/m 070 41.77	Facto dB 5.48	or ment dBuV 47.2	/m dB 5 74	uV/m dl . 00 -2	B 26. 75	Peak	or Cor	ment

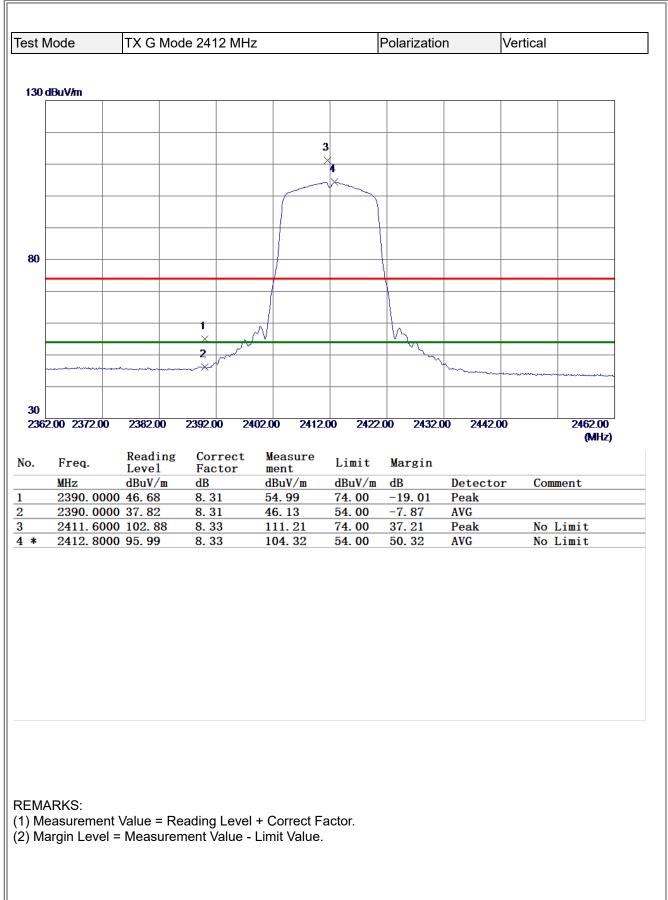




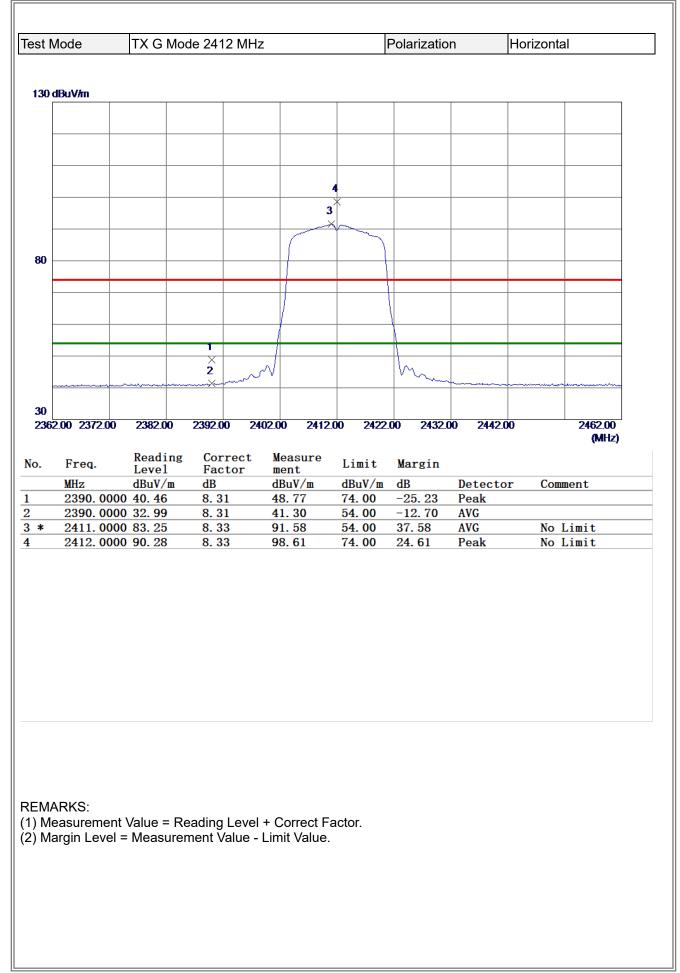


3TL

Mode	TX B M	ode 2462 N	MHz		Ρ	olarizatio	n	Horizon	tal
dBuV/m									
	1								
	<u>×</u>								
	×								
1									
00.00 3550.0	00 6100.00	8650.00	11200.00	13750.00	16300.	.00 18850	.00 21400	00.0	26500.00 (MHz)
	Readin	g Corre	ct Meas	ure					(init iz)
Freq.	neuuin								
	Level	Facto	r ment	, L.		Margin			
MHz	dBuV/m	Facto: dB	r ment dBuV	/m dH	BuV/m	dB	Detecto	or Co	mment
4923. 9		Facto	r ment	/m dF 2 74	BuV/m 4. 00		Detecto Peak AVG	or Co	mment
4923. 9	dBuV/m 070 45.79	Facto: dB 5.73	r ment dBuV 51.5	/m dF 2 74	BuV/m 4. 00	dB -22. 48	Peak	or Co	mment

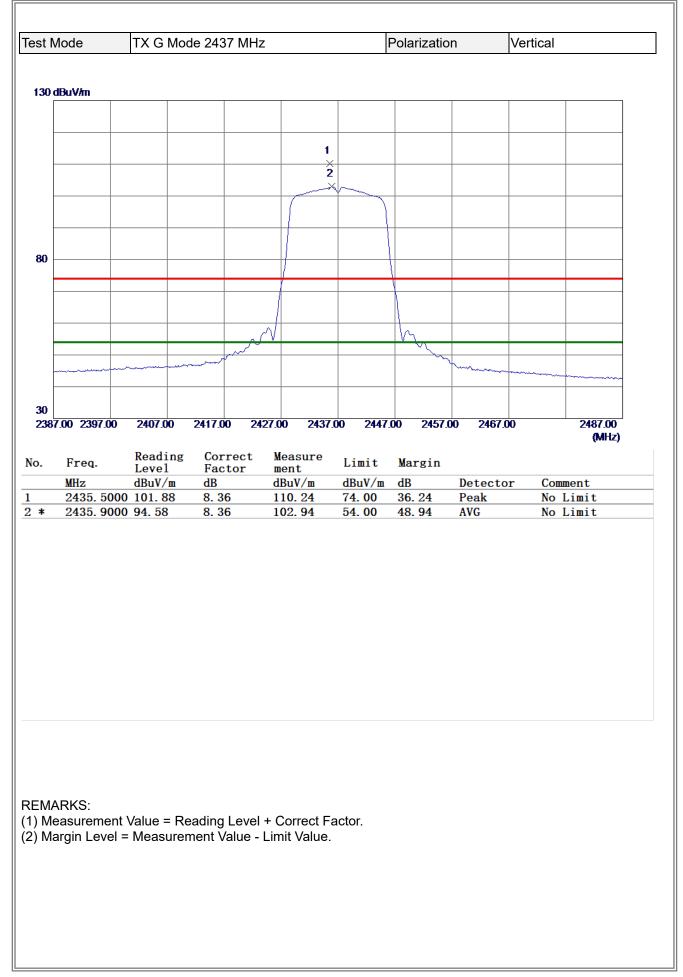


st Mode	TX G Mo	de 2412 MF	łz		Polarizatio	n	Vertical	
0 dBuV/m								
	2							
	×							
	1							
30	×							
								_
20								
20 1000.00 3550.0	0 6100.00	8650.00 1	1200.00 1375	0.00 1630	0.00 18850	0.00 2140	0.00	26500.00
								(MHz)
o. Freq.	Reading	Correct		Limit	Margin			
	Level	Factor	ment	Limit	Margin	Detect	or Co	mont
MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m	Margin dB -20.68	Detecto AVG	or Coi	nment
MHz * 4823.90	Level	Factor	ment		dB		or Coi	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49	Level dBuV/m 000 28.09	Factor dB 5.23	ment dBuV/m 33.32	dBuV/m 54. 00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 EMARKS:	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 EMARKS:) Measureme	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 EMARKS:) Measureme	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 EMARKS:) Measureme	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 EMARKS:	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
MHz * 4823.90 4831.49 MARKS: Measureme	Level dBuV/m 100 28.09 100 42.41 nt Value = R	Factor dB 5.23 5.27	ment dBuV/m 33. 32 47. 68	<u>dBuV/m</u> 54.00 74.00	dB -20. 68	AVG	or Cor	nment
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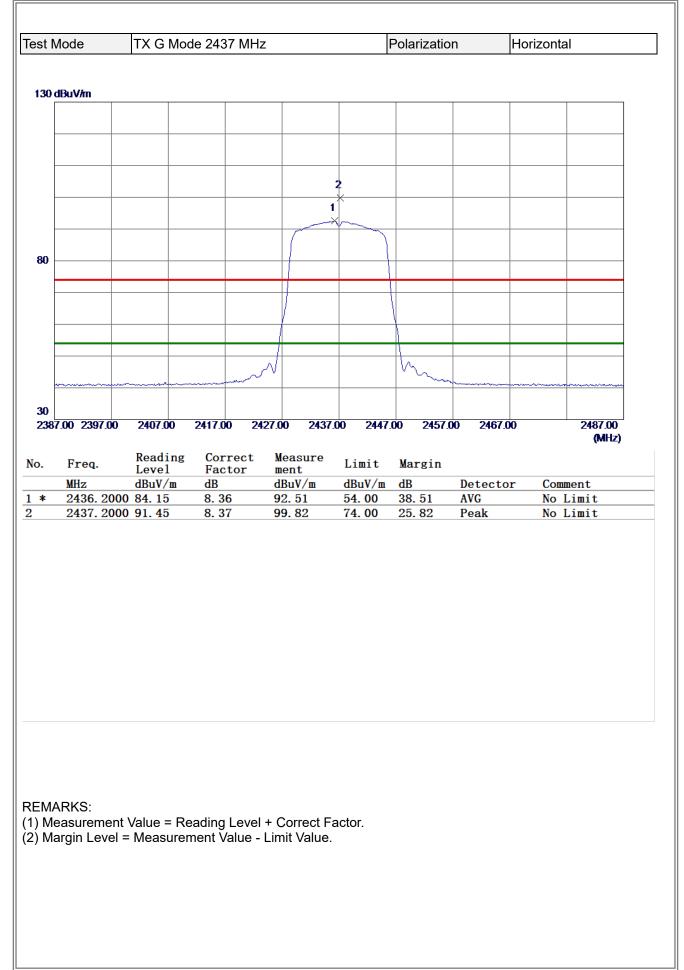


BTL

		lode 2412	MHz		Ρ	Polarizatio	n	Horizo	ntal
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ı	×								
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									(1111 12-)
-	Readir	ng Corre	ct Meas	ure .	•				
Freq.	Readir Level	Facto	r ment	LI		Margin			
MHz	Level dBuV/m	Facto 1 dB	r ment dBuV	/m dB	uV/m	dB	Detecto	or Co	omment
MHz 4823.9	Level	Facto	r ment	/m dB 7 74	uV/m . 00		Detecto Peak AVG	or Co	omment
MHz 4823.9	Level dBuV/m 600 39.24	Facto 1 dB 5.23	r ment dBuV 44.4	/m dB 7 74	uV/m . 00	dB -29. 53	Peak	or Co	omment

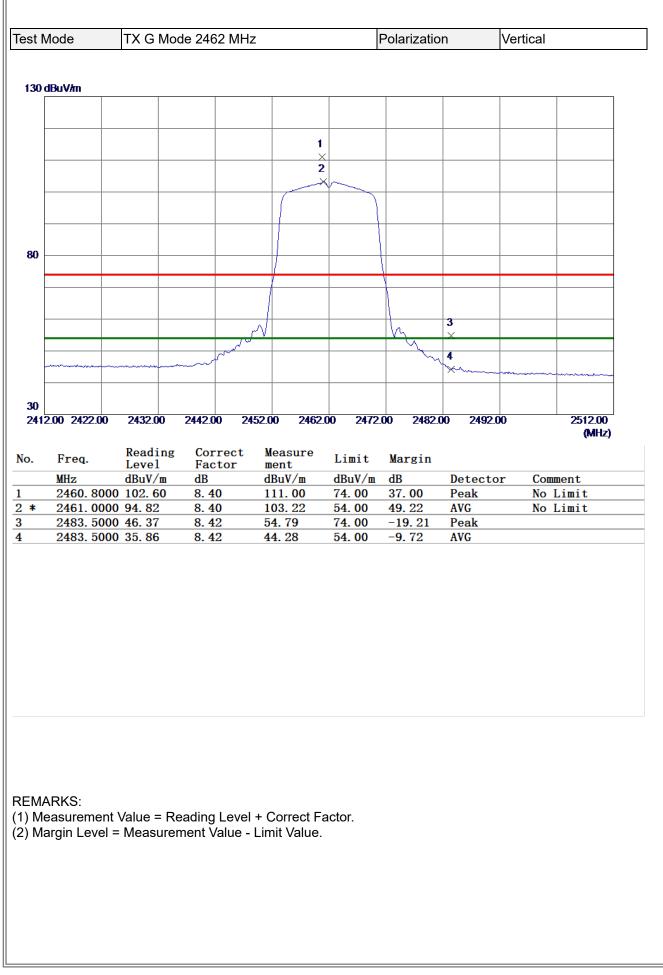


Fest Mode	TYOM	ode 2437 M⊦			Polarizatio	n	Vertical	
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-20								
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	D							(MHz)
o. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
MHz	dBuV/m	dB	dBuV/m	dBuV/m		Detecto	or Com	ment
	0800 44.32 0500 28.87	5. 46 5. 48	<u>49.78</u> 34.35	74.00 54.00	-24. 22 -19. 65	Peak AVG		
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I) Measurer	nent Value = R evel = Measure	eading Leve	۱ + Correct Fa - Limit Value.	actor.				
REMARKS: 1) Measurer 2) Margin Le	nent Value = R vel = Measure	eading Leve ment Value	וּ + Correct F - Limit Value.	actor.				
1) Measurer	nent Value = R ≽vel = Measure	eading Leve ment Value	וּ + Correct F - Limit Value.	actor.				
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) Measurer	nent Value = R ₂vel = Measure	eading Leve ment Value	श + Correct Fa - Limit Value.	actor.				
) Measurer	nent Value = R ờvel = Measure	eading Leve ment Value	וּ + Correct Fa - Limit Value.	actor.				

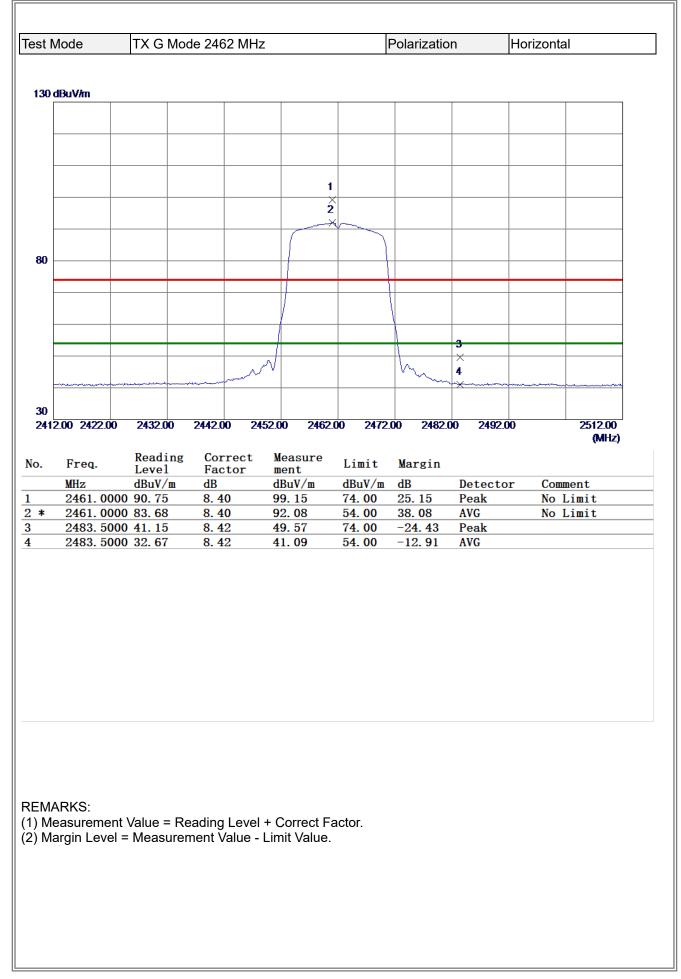


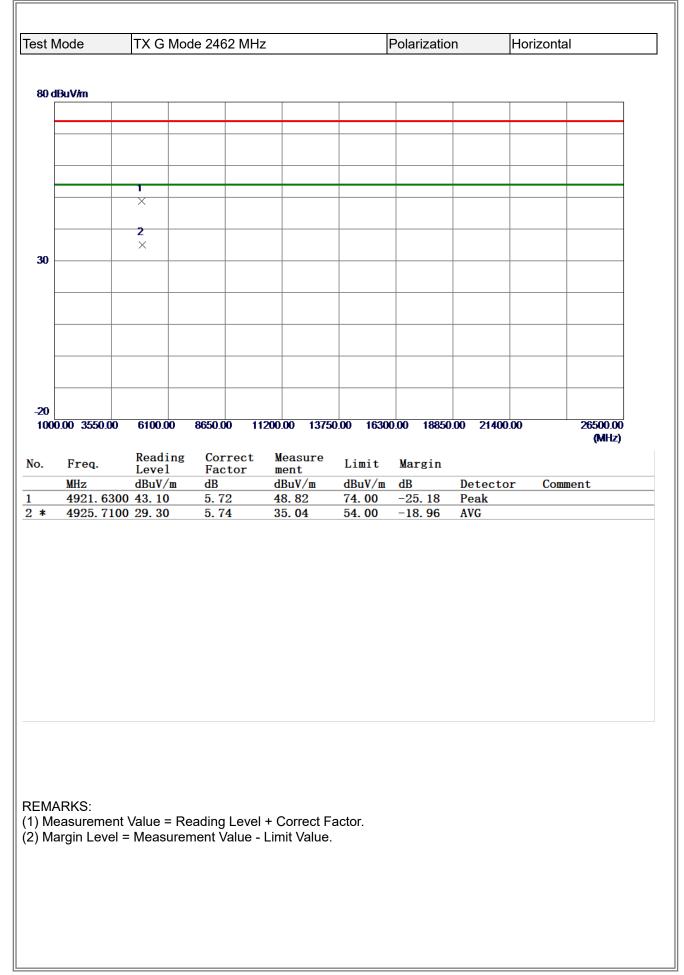
3TL

20			37 MHz	Mode 243	TX G N	Mode
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× ×						
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MHz Buv/m B						
Noise Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4874.5099 41.34 5.48 46.82 74.00 -27.18 Peak						
MHz Buv/m B						
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*	MHz 4922.91	dBuV/m	Facto dB		ment dBuV/m	dBuV/m	dB		or Con	ment
<u>l</u> * 2	MHz 4922.91	dBuV/m 00 32.64	Facto dB 5.73		ment dBuV/m 38.37	dBuV/m 54.00	dB -15.63	AVG	or Con	ment







est l	Mode	TX N(HT	20) Mode 2	2412 MHz	F	Polarizatio	n	Vertical
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		D 11						(MHz)
lo.	Freq.	Reading Level	Correc Factor	t Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m		Detector	Comment
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2				46, 39	54,00	-(.01		
*	2390.000	0 38.08 0 102.99	8.31 8.33 8.33	46. 39 111. 32 104. 00	54.00 74.00 54.00	-7. 61 37. 32 50. 00	Peak AVG	No Limit No Limit

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



80 dBuV/m 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Image: Second	51 1	lode	TX N(HT2	0) Mo	de 24	12 MHz		Polarizatio	on	Verti	cal
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× ×	× ×	0 d	BuV/m										
× ×	× ×												
X X Image: Contract Measure ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	X X Image: Contract Measure ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment												
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30 ×	30 ×												
20	20												
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		-	MHz	Level dBuV/	ím	Fac dB	tor	ment dBuV/m	dBuV/m	dB			Comment
			MHz 4823.860	Level dBuV/ 00 40. 57	(<u>m</u>	Fac dB 5. 2	tor 3	ment dBuV/m 45.80	dBuV/m 74.00	dB -28. 20	Peak		Comment
			MHz 4823.860	Level dBuV/ 00 40. 57	(<u>m</u>	Fac dB 5. 2	tor 3	ment dBuV/m 45.80	dBuV/m 74.00	dB -28. 20	Peak		Comment
		*	MHz 4823.860 4823.960	Level dBuV/ 00 40. 57	(<u>m</u>	Fac dB 5. 2	tor 3	ment dBuV/m 45.80	dBuV/m 74.00	dB -28. 20	Peak		Comment
		* MA	MHz 4823. 860 4823. 960	Level dBuV/ 00 40. 57 00 28. 14	(<u>m</u>	Fac dB 5. 2 5. 2	tor 3 3	ment dBuV/m 45.80 33.37	dBuV/m 74.00 54.00	dB -28. 20	Peak		Comment
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EMARKS:) Measurement Value = Reading Level + Correct Factor.) Margin Level = Measurement Value - Limit Value.	Measurement Value = Reading Level + Correct Factor.	* EMA	MHz 4823. 860 4823. 960	Level dBuV/ 00 40. 57 00 28. 14	= Rea	Fac dB 5. 2: 5. 2:	tor 3 3	ment dBuV/m 45. 80 33. 37 + Correct	dBuV/m 74.00 54.00	dB -28. 20	Peak		Comment
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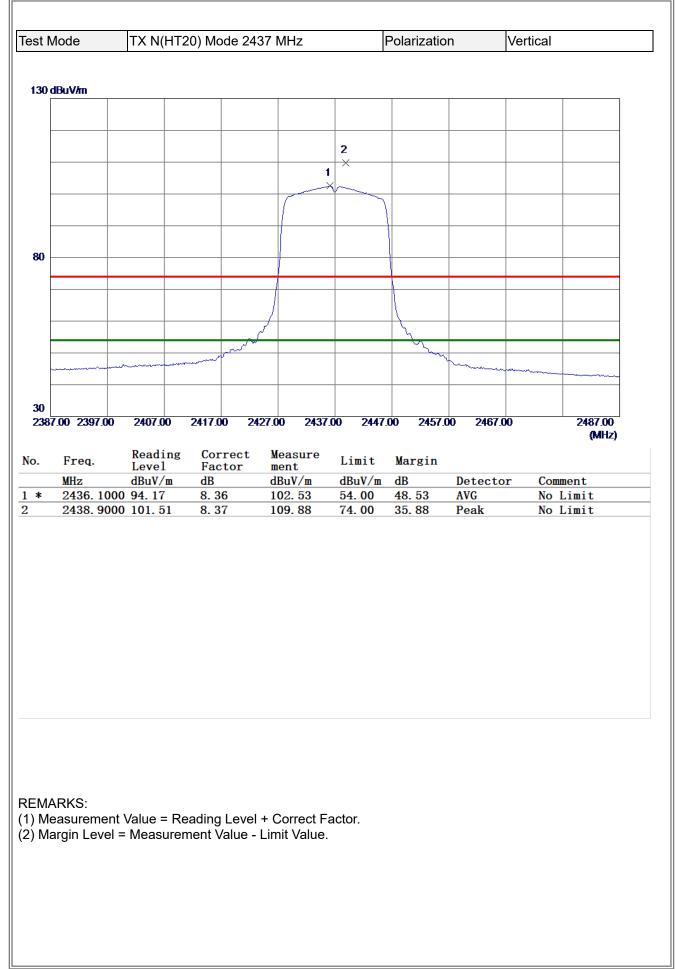


	lode	TX N(HT2	20) Mode 24	12 MHz	F	Polarizatio	n	Horizontal	
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0.	Freq. MHz	Level dBuV/m	Factor dB	ment dBuV/m	Limit dBuV/m	Margin dB	Detecto	r Comme	nt
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	2390.000 2409.400		8.31 8.33	40. 95 98. 45	54.00 74.00	-13. 05 24. 45	AVG Peak	No Li	mit
*	2411. 100		8. 33	91.16	54.00	37.16	AVG	No Li	
	ARKS:								



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4819	. 3600 39. 21	5.20) 44.4	1 74.	00 -2	3 29. 59	Peak	or Com	ment

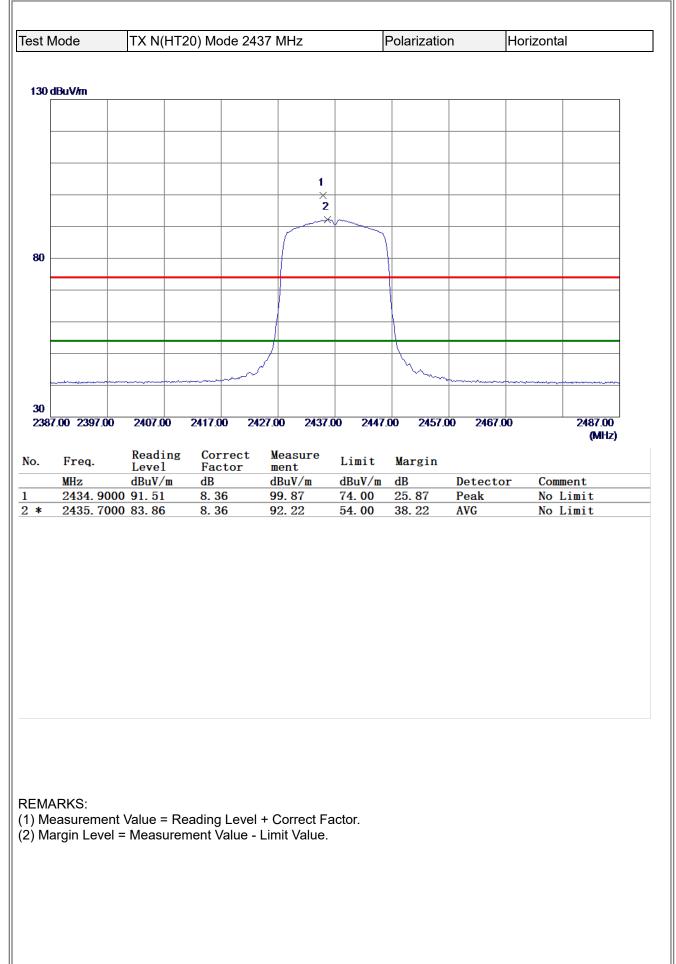






20	1 1 X 1	30 20 1000.00 35 5. Freq MHz 4868	550.00 q. 8. 850	× 2 × 8 6100. Read Leve dBuV 00 41. 4	ling 91 7/m .3	Correct Factor dB 5.46	Measure ment dBuV/m 46.89	Limit dBuV/m 74.00	Margin dB -27.11	Detecto Peak		(MHz)
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30 ×	30 ×	20 1000.00 35 0. Freq MHz 4868	q. 8. 85(× 6100. Read Leve dBuV 00 41. 4	ling 91 7/m .3	Correct Factor dB 5.46	Measure ment dBuV/m 46.89	Limit dBuV/m 74.00	Margin dB -27.11	Detecto Peak		(MHz)
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20	20	20 1000.00 35 0. Freq MHz 4868	q. 8. 85(Read Leve dBuV 00 41.4	ling 91 7/m .3	Correct Factor dB 5.46	Measure ment dBuV/m 46.89	Limit dBuV/m 74.00	Margin dB -27.11	Detecto Peak		(MHz)
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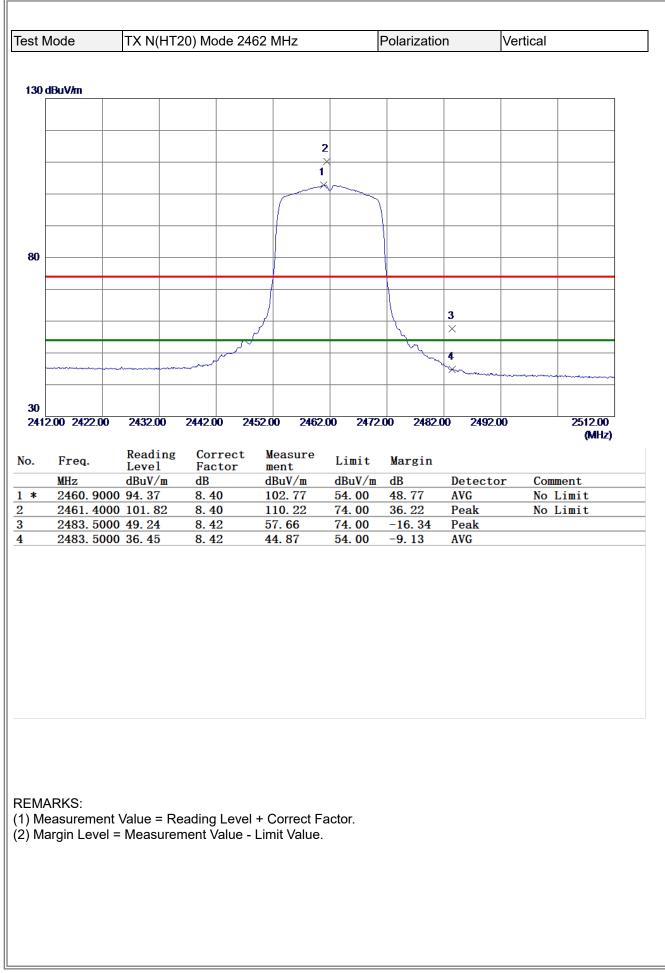






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Measurement Value = Reading Level + Correct Factor.		MHz 4874.1600	Level dBuV/m 2 28.06	Factor dB 5.48	r ment dBuV 33.5	t L. 7/m dF 54 54	BuV/m .00	dB -20. 46	AVG	or Co	mment
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Measurement Value = Reading Level + Correct Factor. Margin Level = Measurement Value - Limit Value.		MHz 4874.1600	Level dBuV/m 0 28.06	Factor dB 5.48	r ment dBuV 33.5	t L. 7/m dF 54 54	BuV/m .00	dB -20. 46	AVG	or Co	mment
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		2 ×								
30										
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000	0.00 3550.00	6100.0	0 86	50.00 1	11200.00 1375	0.00 16300	0.00 18850	0.00 21400).00	26500.00 (MHz)
		D 11								
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).	Freq. MHz	Level dBuV/	l m c	Factor 1B	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detecto	or Con	ment
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	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Con	ment
	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Com	ment
	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Con	ment
	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Con	ment
	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Con	ment
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	MHz 4923.779	Leve1 dBuV/ 9 46.33	l m c E	Factor IB 5.73	ment dBuV/m 52.06	dBuV/m 74. 00	dB −21. 94	Peak	or Con	ment
*	MHz 4923.779 4923.950	Leve1 dBuV/ 9 46. 33 0 32. 55	1 m c 5 5	Factor 1B 5. 73 5. 73	ment dBuV/m 52.06 38.28	dBuV/m 74.00 54.00	dB −21. 94	Peak	or Con	ment
* ====================================	MHz 4923.779 4923.950	Leve1 dBuV/ 9 46. 33 0 32. 55	E Read	Factor IB 5. 73 5. 73	ment dBuV/m 52.06 38.28	dBuV/m 74.00 54.00	dB −21. 94	Peak	or Con	ment
) Me	MHz 4923.779 4923.950	Leve1 dBuV/ 9 46. 33 0 32. 55	E Read	Factor IB 5. 73 5. 73	ment dBuV/m 52.06 38.28	dBuV/m 74.00 54.00	dB −21. 94	Peak	or Con	ment
* EM4	MHz 4923.779 4923.950	Leve1 dBuV/ 9 46. 33 0 32. 55	E Read	Factor IB 5. 73 5. 73	ment dBuV/m 52.06 38.28	dBuV/m 74.00 54.00	dB −21. 94	Peak	or Con	ment
* EMA) Me	MHz 4923.779 4923.950	Leve1 dBuV/ 9 46. 33 0 32. 55	E Read	Factor IB 5. 73 5. 73	ment dBuV/m 52.06 38.28	dBuV/m 74.00 54.00	dB −21. 94	Peak		ment
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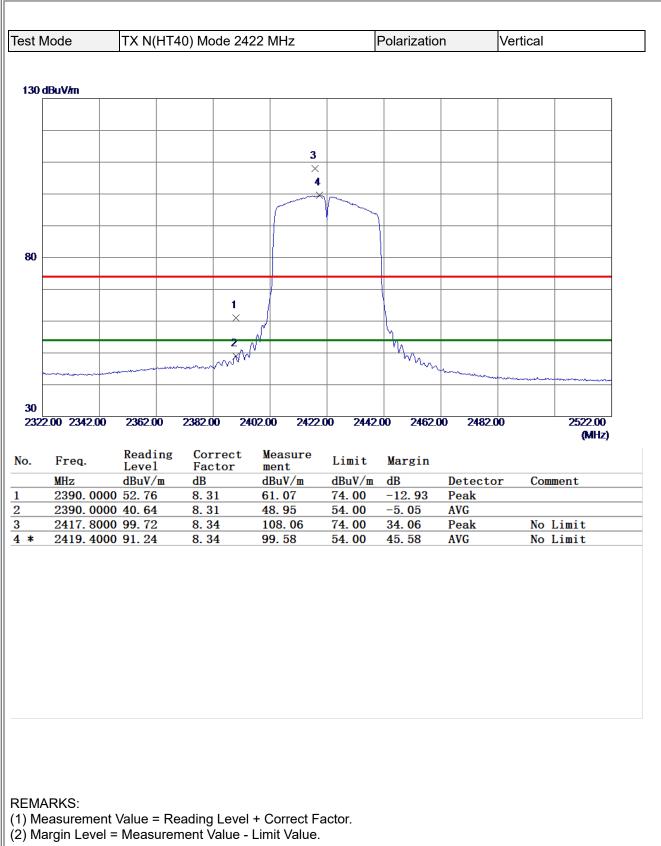
	Mode	TX N(HT	20) Mode 24	62 MHz	F	Polarizatio	n	Horizontal
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	_	Reading	Correct	Measure				(MHz)
).	Freq. MHz	Level dBuV/m	Factor dB	ment dBuV/m	Limit dBuV/m	Margin dB	Detecto	r Comment
*	2459.00	00 90.56 00 83.18	8.39 8.40	98.95 91.58	74.00 54.00	24. 95 37. 58	Peak AVG	No Limit No Limit
				50.85				No Limit
-	2483. 50	00 42. 43 00 32. 82	8. 42 8. 42	41. 24	74.00 54.00	-23. 15 -12. 76	Peak AVG	
EM	2483. 500 2483. 500	00 42. 43 00 32. 82	8. 42		54.00			



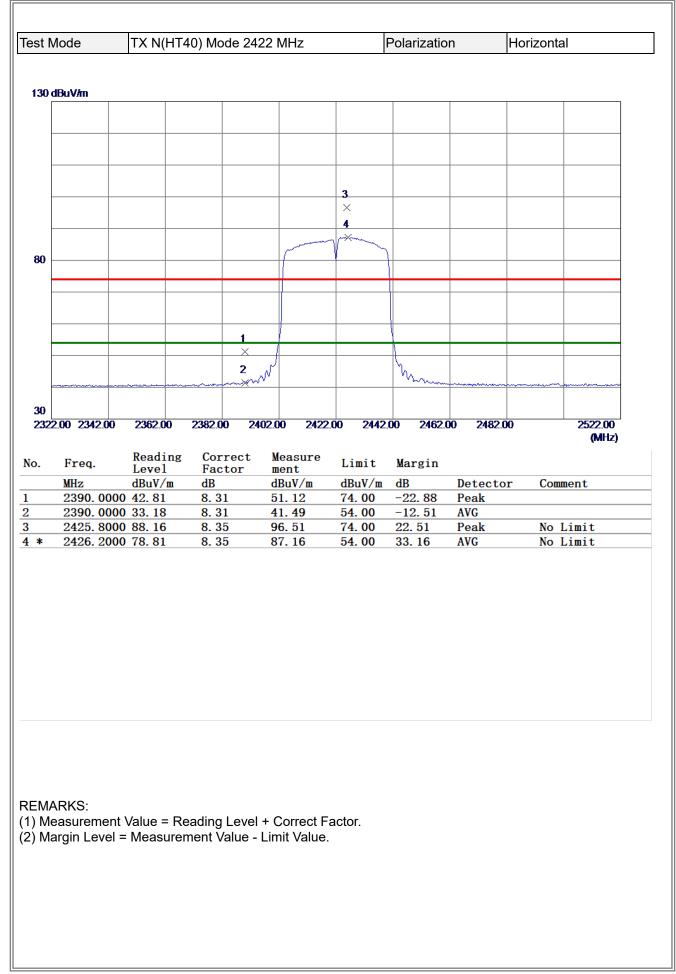
t Mode	TX N(I	HT20) Mod	e 2462 MH	Z	Pola	arizatio	n	Horizont	al
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	 X								
	1								
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000.00 3550	0.00 6100.0	0 8650.00	11200.00	13750.00	16300.00	18850	.00 21400	0.00	26500.00 (MHz)
Freq.	Readi	ng Corre							
II Uq.	Lovol	Eact		ure Li	mit Ma	rgin			
	Level	Facto	or ment	; LI		rgin	Detecto	or Com	ment
MHz 4922.	Leve1 dBuV/1 4400 29.41	Facto m dB 5.73	or ment dBuV 35.1	/m dB 4 54	uV/m dB .00 -1	8. 86	Detecto AVG	or Com	ment
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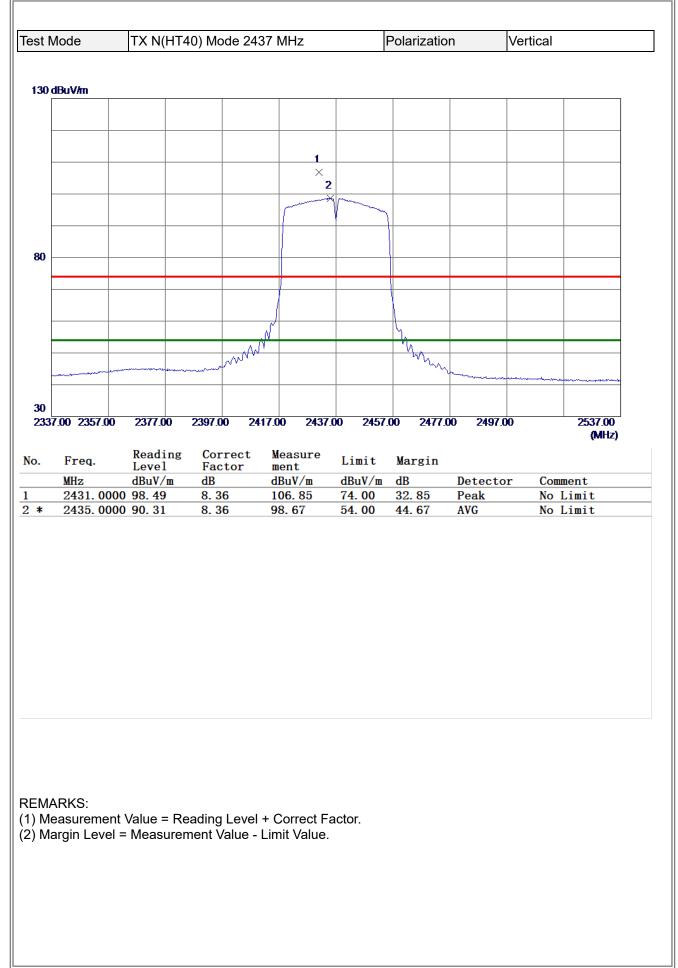
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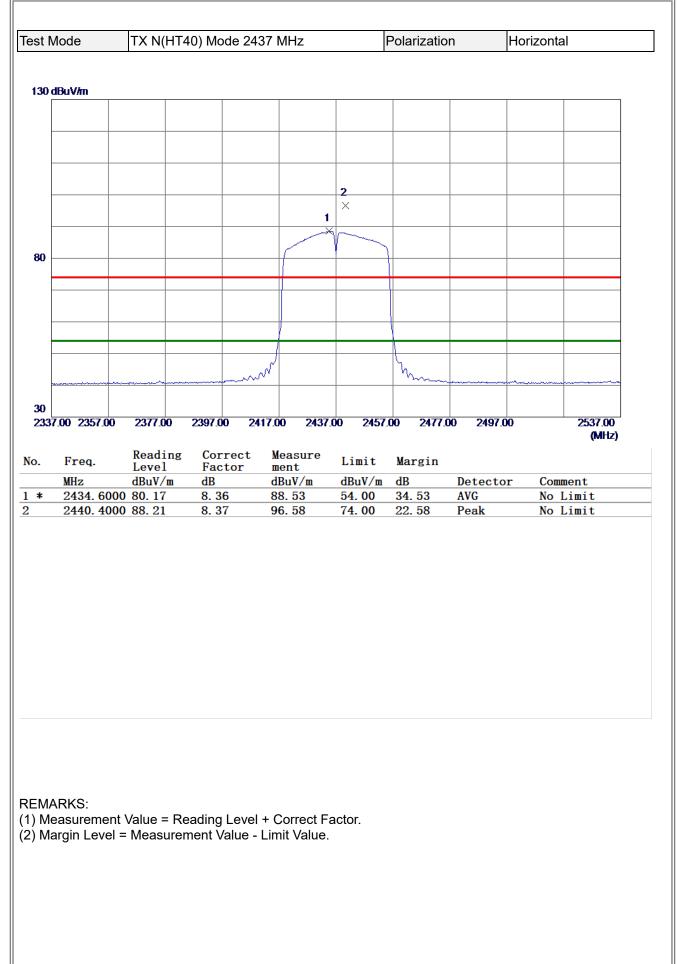






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k		0 28.22	n o	∃B	dBuV/m	dBuV/m	dB		or Com	nent
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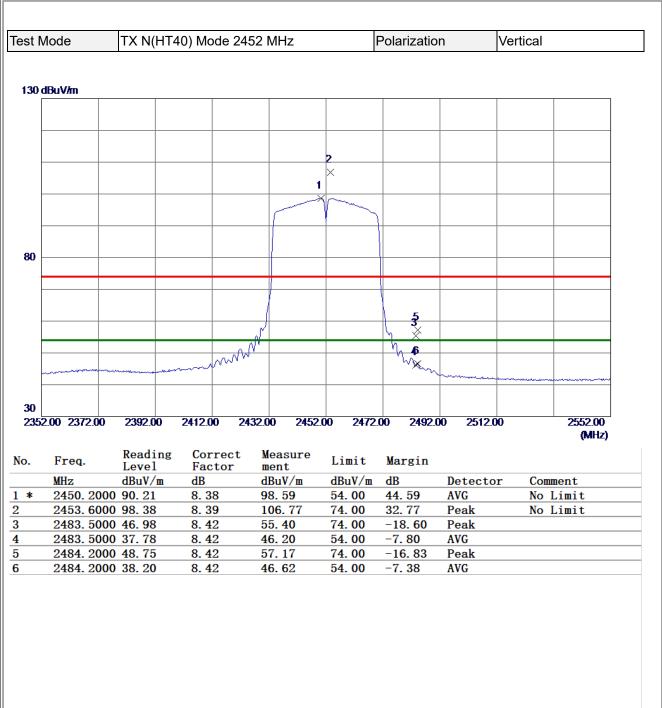






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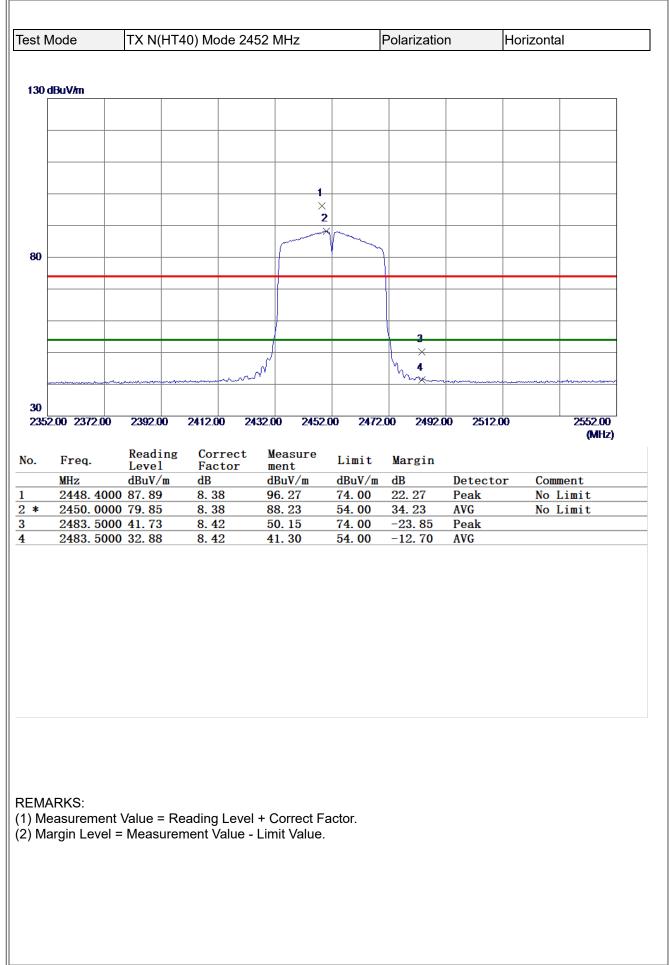
REMARKS:

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



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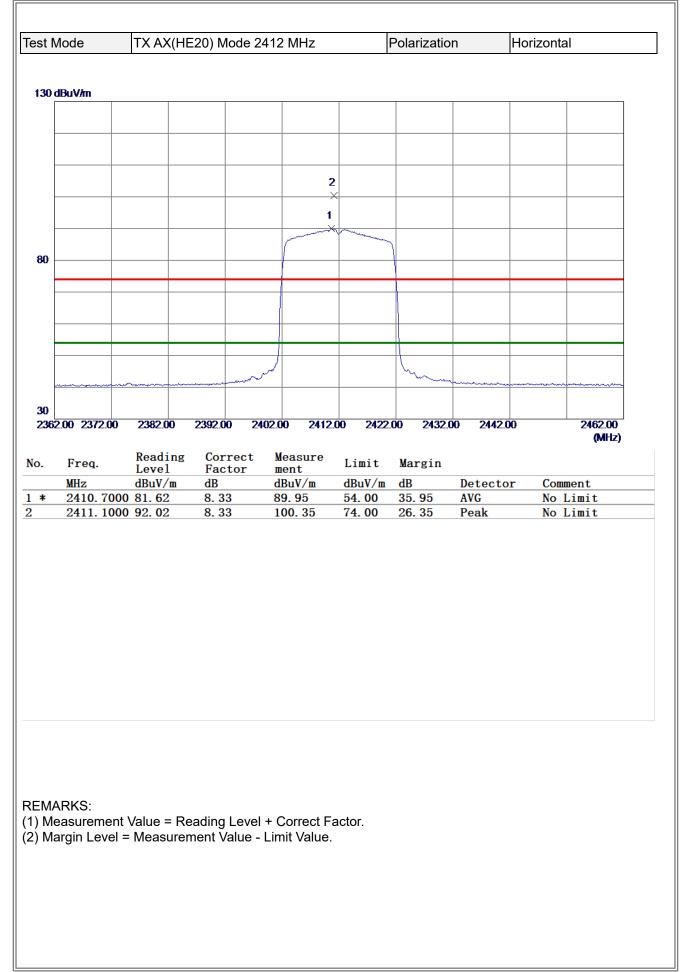
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. Fr	req.	Readi Level	ng Co	rrect	Vee							
			Fa			sure	Limit	Margin	L			
MH		dBuV/1	n dB	ctor	ment dBuV	: //m	dBuV/m	dB	De	tecto	r C	omment
* 49	iz 13. 1500 13. 2599	dBuV/r 28. 12	n dB 5.	ctor	ment	: /m :0			De AV	G	r C	omment
* 49	13. 1500	dBuV/r 28. 12	n dB 5.	ctor 68	ment dBuV 33.8	: /m :0	dBuV/m 54.00	dB -20. 20	De AV	G	r C	omment



st Mode	TX AX(H	E20) Mode	2412 MHz		Polarizatio	n	Vertical	
30 dBuV/m								
			3 ×					
			4	ł				
				×				
			(
80								
		X			4			
		2 minut			- Juny	h.		
							· ····	
30 2362.00 2372	2.00 2382.00	2392.00 2	402.00 2412	.00 2422	.00 2432.0	00 2442	00	2462.00
								(MHz)
o. Freq.	Reading	Correct		Limit	Margin			
						Detect	or Com	ment
	0000 46.69	8. 31	55.00	74.00	-19.00	Peak	01 001	
	0000 37.71	8.31	46. 02	54.00	-7. 98	AVG		
* 2411.0	0000 94.45	8.33	102.78	54.00	48.78	AVG	NO	Limit
Freq. MHz 2390. 2390. 2406.2	Reading Level dBuV/m 0000 46.69	Correct Factor dB 8.31	Measure ment dBuV/m 55.00	Limit dBuV/m 74.00	Margin dB -19.00	Detect Peak	or Com	



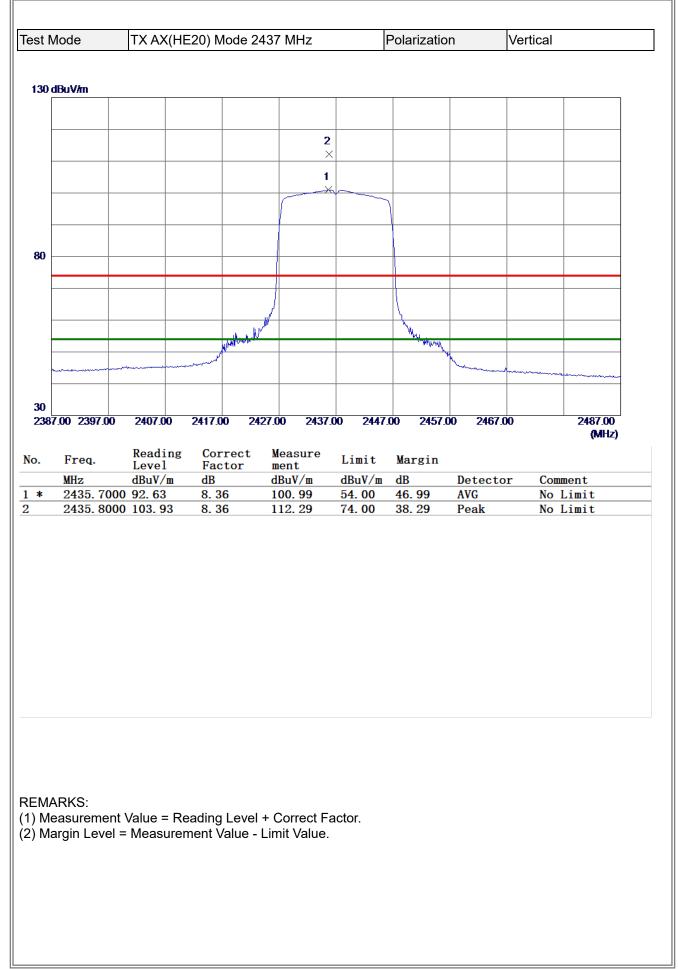
	е	TX AX(HE20) Mode 2	412 MHz		Polarizatic	on	Vertical	
	_	_	_	_		_		_		_
) dBuV	łm									
		2								
		×								
		1 ×								
0										
20	3550.00	6100.00	86	50.00 11	200.00 13750	0.00 1630	0.00 18850).00 21400	00	26500.00
										(MHz)
. F:	req.	Readir Level	ig (Correct Factor	Measure ment	Limit	Margin			
	łz	dBuV/m	ı o	lB	dBuV/m	dBuV/m		Detecto	or Comm	ent
	323. 9300 324. 5000			5. 23 5. 23	33. 33 44. 21	54.00 74.00	-20. 67 -29. 79	AVG Peak		





	TX AX(H	IE20) Mode 2	2412 MHz	I	Polarizatio	n	Horizont	al
) dBuV/m								
	2 ×							
	1							
)	×							
)								
00.00 3550.0	0 6100.00	8650.00 1	1200.00 13750	0.00 1630	0.00 18850	.00 2140	0.00	26500.00 (MHz)
Freq.	Reading Level	correct Factor	Measure ment	Limit	Margin			
	Level	ractor	шень					
MHz	dBuV/m	dB	dBuV/m	dBuV/m		Detect	or Com	ment
4824.42	200 28.05	5.23	dBuV/m 33. 28	54.00	-20.72	AVG	or Com	ment
4824.42			dBuV/m				or Com	ment
4824.42	200 28.05	5.23	dBuV/m 33. 28	54.00	-20.72	AVG	or Con	ment

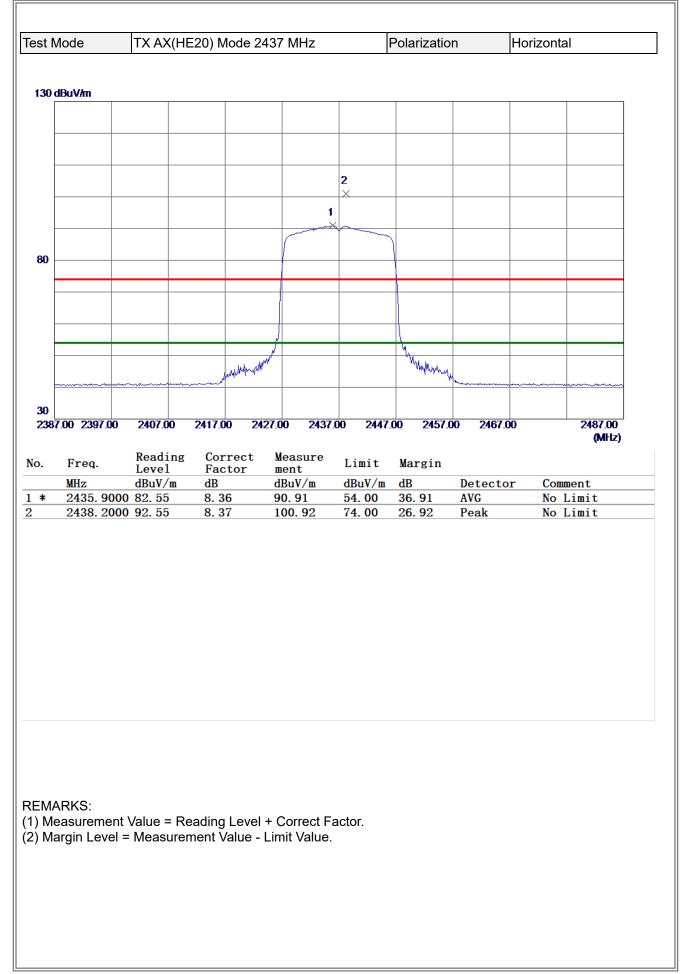






20	Image: Second State	SUN	Node	TX AX	(HE2C)) Mode	2437 MHz	F	Polarizatio	n	Vertical	
1	I I I I 0 X I											
X X	x x	80 d	lBuV/m					1	1	1	1	1
X X	30 2 30 2 30 <th></th>											
X X	30 2											
X X	30 2											
30 ×	30 ×											
30 ×	30 ×											
30 ×	30 ×			2								
-20 -	Image: Second system Image: Se	20										
MHz Buv/m B	1000.00 3550.00 6100.00 3650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 b. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG	^o										
Number Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 b. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG											
Number Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 b. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG											
1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) o. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	100000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 o. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG <td></td>											
MHz Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	1000000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) o. Freq. Level Factor ment Limit Margin (MHz) (MHz) 0. MHz dBuV/m dB dBuV/m dB Detector Comment (MHz) (MHz) 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG EMARKS: NARKS:											
1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) p. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	100000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 o. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG											
Number Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 b. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG	-20										
Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBDetectorComment4868.210047.865.4553.3174.00-20.69Peak	Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak ★ 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG	00	0.00 3550.00	6100.0	0 86	50.00	11200.00 1375	0.00 16300	0.00 18850	.00 21400	0.00	
MHz Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak	MHz Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4868.2100 47.86 5.45 53.31 74.00 -20.69 Peak * 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG		F	Readi	ng	Correct	Measure	Linit				(ivii iz)
4868. 2100 47. 86 5. 45 53. 31 74. 00 -20. 69 Peak	4868. 2100 47. 86 5. 45 53. 31 74. 00 -20. 69 Peak * 4874. 0400 28. 29 5. 48 33. 77 54. 00 -20. 23 AVG	0.		Level		Factor		LIMIT	Margin			
* 4874.0400 28.29 5.48 33.77 54.00 -20.23 AVG	EMARKS:) Measurement Value = Reading Level + Correct Factor.			dBuV/				dBuV/m		Detecto	or Con	mont
	Measurement Value = Reading Level + Correct Factor.		4868.210	0 47.86	m (dB 5.45	dBuV/m 53.31	74.00	dB -20. 69	Peak	or Con	ment
) Measurement Value = Reading Level + Correct Factor.		4868.210	0 47.86	m (dB 5.45	dBuV/m 53.31	74.00	dB -20. 69	Peak	or Con	ment
) Measurement Value = Reading Level + Correct Factor.		4868.210	0 47.86	m (dB 5.45	dBuV/m 53.31	74.00	dB -20. 69	Peak	or Con	ment
		*	4868. 210 4874. 040	0 47.86	m (dB 5.45	dBuV/m 53.31	74.00	dB -20. 69	Peak	or Con	ment
) Measurement Value = Reading Level + Correct Factor.) Margin Level = Measurement Value - Limit Value.		* ====================================	4868. 210 4874. 040	0 47. 86 0 28. 29	n o	dB 5. 45 5. 48	dBuV/m 53. 31 33. 77	74. 00 54. 00	dB -20. 69	Peak		
) Measurement Value = Reading Level + Correct Factor.		* ====================================	4868. 210 4874. 040	0 47. 86 0 28. 29	n o	dB 5. 45 5. 48	dBuV/m 53. 31 33. 77	74. 00 54. 00	dB -20. 69	Peak		ment

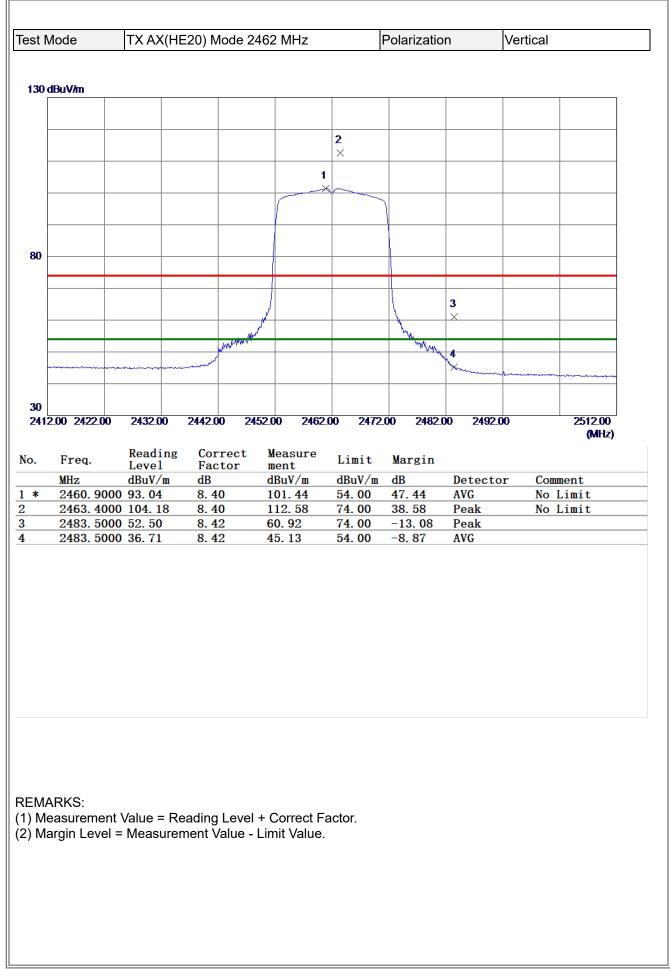
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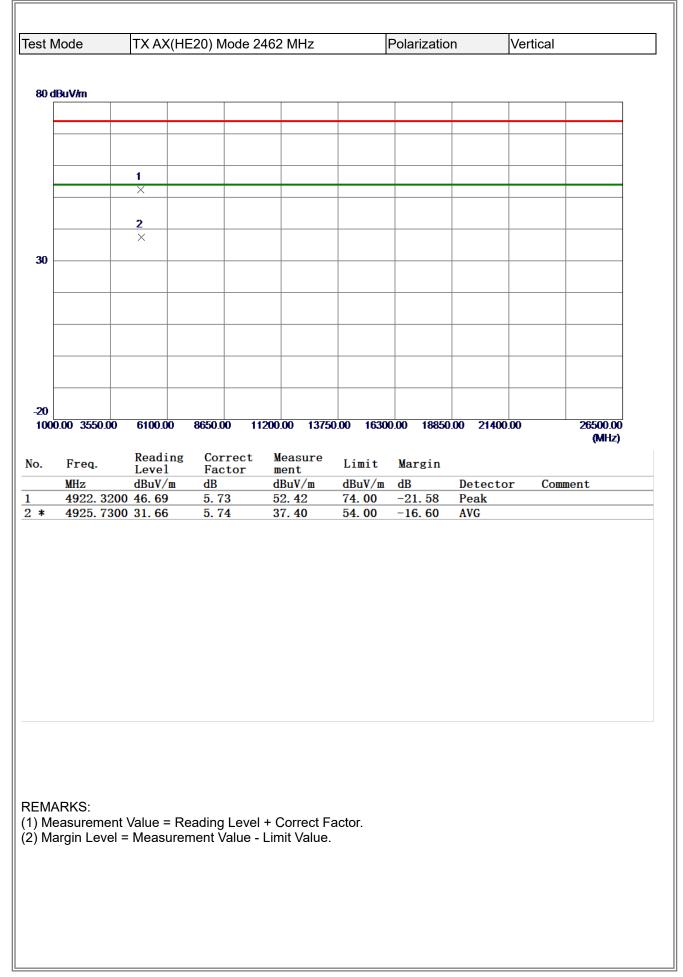


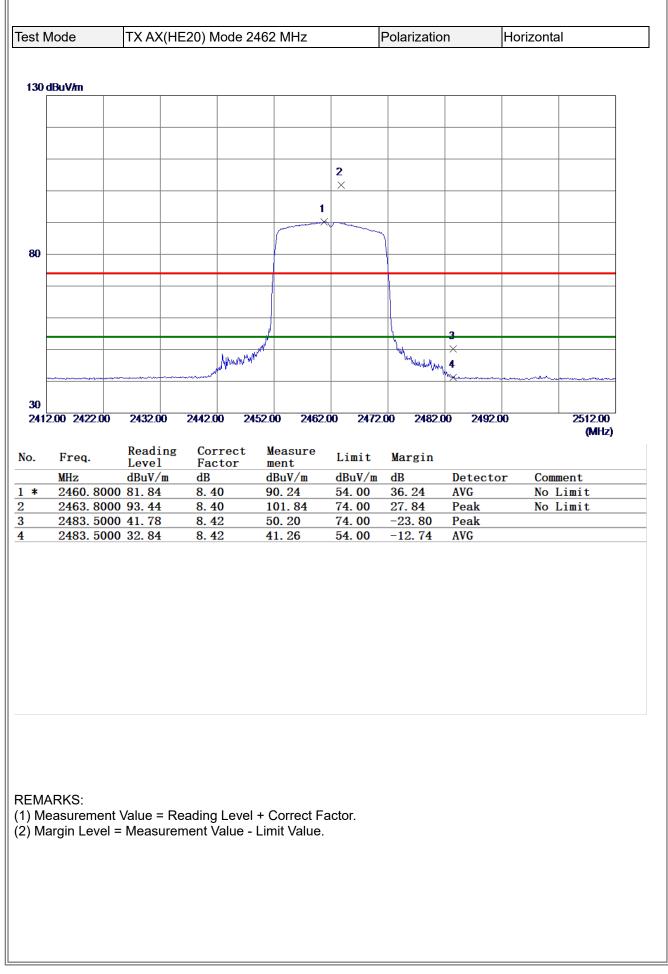


t Mode	TX AX(F	IE20) Mode	2437 MHz		Polarizatio	n	Horizont	al
0 dBuV/m								
	2							
	×							
0								
0								
000.00 3550	.00 6100.00	8650.00	11200.00 1375	0.00 1630	0.00 18850	00 2140	0.00	26500.00 (MHz)
. Freq.	Reading	g Correct	Measure	.				
. Freq.	Level			1 1 m 1 f	Margin			
MH ₇		Factor	dBuV/m	Limit dBuV/m	Margin	Detect	or Com	ment
	dBuV/m 500 38.84	dB 5. 47	dBuV/m 44. 31	dBuV/m 74.00	dB -29. 69	Detect Peak	or Com	ment
4872.1	dBuV/m	dB	dBuV/m	dBuV/m	dB		or Com	ment
4872.1	dBuV/m 500 38.84	dB 5. 47	dBuV/m 44. 31	dBuV/m 74.00	dB -29. 69	Peak	or Con	ment





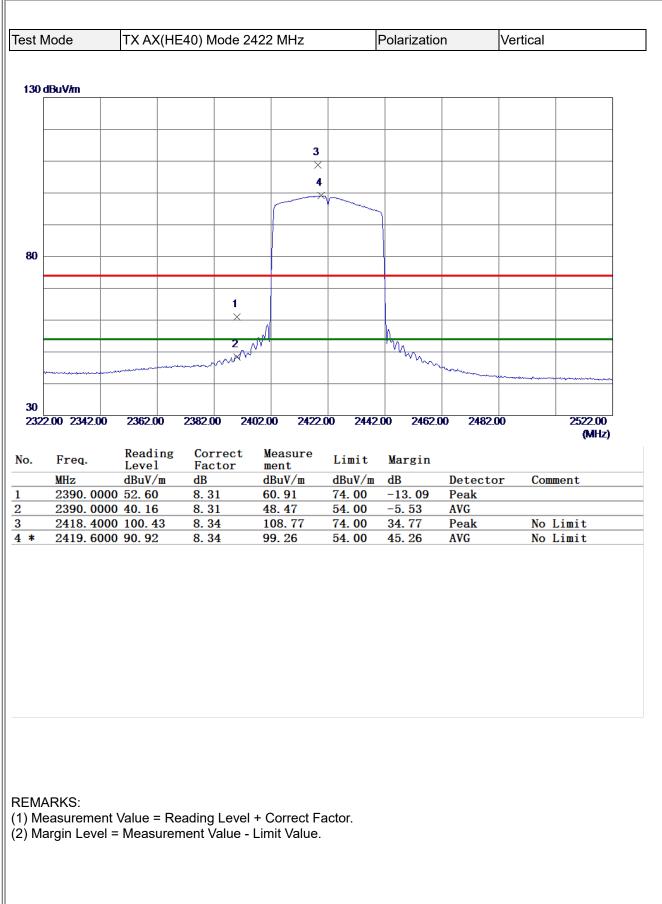






t Mode	TX AX(HE20) Mod	de 2462 M	Hz	Po	olarizatio	n	Horizor	ntal
0 dBuV/m									
	2								
0	×								
0									
000.00 3550.	00 6100.00	8650.00	11200.00	13750.00	16300.0	00 18850	.00 2140	0.00	26500.00
	D 11								(MHz)
-									
Freq.	Readin Level	lg Corre Facto			mit 1	Margin			
MHz	Level dBuV/m	Facto dB	or ment dBuV	/m dB	uV/m (dB	Detecto	or Co	mment
MHz • 4927.8	Level	Facto	r ment	/m dB 2 54	uV/m (.00 -		Detecto AVG Peak	or Co	mment
MHz • 4927.8	Level dBuV/m 000 28.97	Facto dB 5.75	or ment dBuV 34.7	/m dB 2 54	uV/m (dB -19. 28	AVG	or Co	mment







st Mode)	TX AX(H	E40) Mo	ode 242	22 MF	Ιz		Pc	olarizatio	n	Vert	ical	
0 dBuV/r	n												
		2 ×											
		1			_								
		×											
30					_						_		
20													
000.00	3550.00	6100.00	8650.00	1120	00.00	13750	.00 16	5300.0	0 18850	.00 214	00.00		26500.00
			_										(MHz)
. Fr	eq.	Reading	Corr	oot									
		Level	Fact		Measument		Limit	t M	argin				
MH:		Level dBuV/m	Fact dB	or	ment dBuV/	/m	dBuV/	m d	İB	Detect	tor	Com	nent
* 484		dBuV/m) 28. 20	Fact	or	ment	/m3		/m d		Detect AVG Peak	tor	Сош	nent
* 484	43. 9800	dBuV/m) 28. 20	Fact dB 5.33	or	ment dBuV/ 33.53	/m3	dBuV/ 54. 00	/m d	B -20. 47	AVG	tor	Com	nent

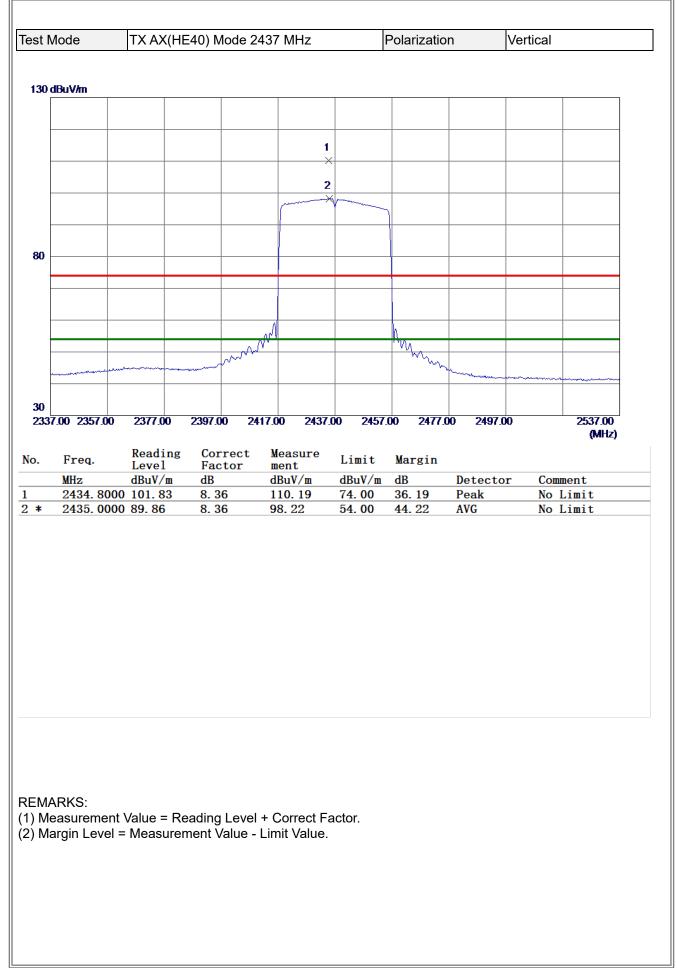
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	TX AX(HE	40) Mode 24	422 MHz	F	Polarizatio	n	Horizonta	l
30 dBuV/m								
				4 ×				
				3				
				×				
80								
		1						
		X						
		2 	m		home			
30 2322.00 2342.0	0 2362.00	2382.00 24	02.00 2422.	00 2442.0	00 2462.0	0 2482.0)	2522.00
	P •••							(MHz)
. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
MHz 2390, 00	dBuV/m 000 42.28	dB 8.31	dBuV/m 50. 59	dBuV/m 74.00	dB -23. 41	Detector Peak	Com	lent
2390. 00	000 33.67	8.31	41. 9 8	54.00	-12. 0 2	AVG		
	000 78.49 000 90.23	8.35 8.35	86.84 98.58	54.00 74.00	32. 84 24. 58	AVG Peak		Limit Limit



	le	TX AX(HE40)	Vode 24	122 MHz		Polarizatio	on	Horizonta	1
80 dBuV	//m									
		2								
		X								
		1 ×								
30 <u> </u>										
20										
20 1000.00	3550.00	6100.00	8650	.00 112	200.00 13750	0.00 1630	D.00 18850	0.00 21400).00	26500.00
		Deadin	- Ca	rrect	Veeeuwe					(MHz)
	req.	Readin Level	Fa	ctor	Measure ment	Limit	Margin			
	Hz 837. 7400	dBuV/m 28 16	dB 5.		dBuV/m 33.46	dBuV/m 54.00	dB -20. 54	Detecto AVG	or Com	ient
	848. 6300				00.10					
		39.00	5.	35	44. 35	74.00	-29.65	Peak		
		39.00	5.	35	44. 35					

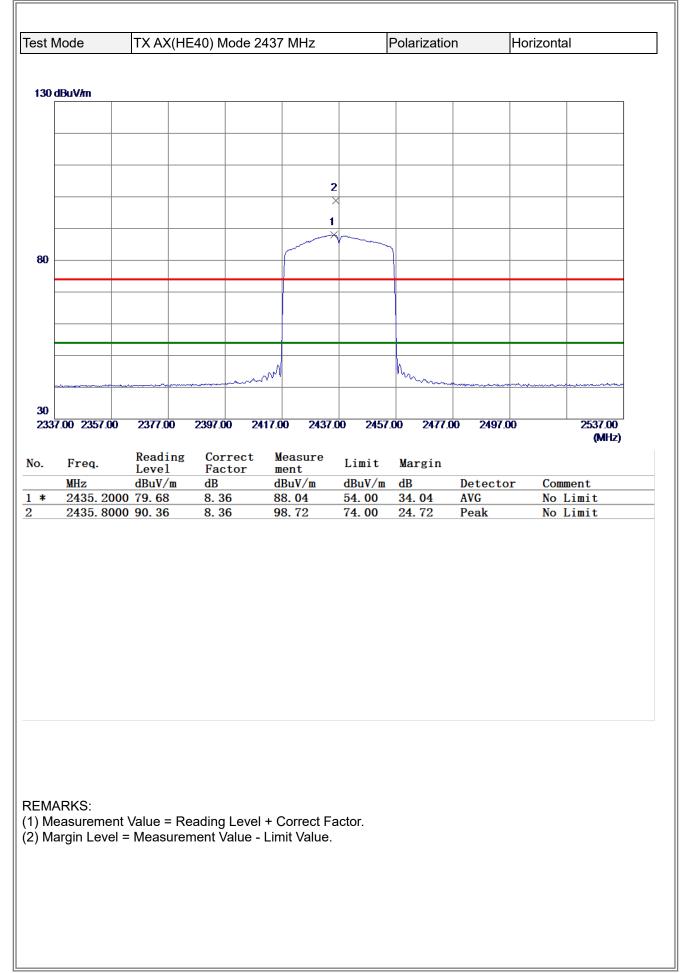






20	Image: state of the s		lode	TX AX(HE	40) Mode 24	437 MHz		Polarizatio	n	Vertical	
1	1 1										
× ×	× ×	i0 dF	BuV/m						1		
X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	X X X X X X 2 X X X X X X 30 X X X X X X X 4 X X X X X X X X 4 X X X X X X X X X 50 X <	-									
X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment										
X X Image: Context Measure Limit Margin MHz dBuV/m	X X Image: Context Measure Limit Margin MHz dBuV/m										
X X X X X X X X X 30 X	X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	┝									
30 2 X 1 1 1 1 30 X 1 1 1 1 1 1 30 X 1 1 1 1 1 1 1 30 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 20 1	30 2 X Image: Constraint of the second										
30 ×	30 ×										
20	20										
MHz Buv/m B	MHz Buv/m B	30 -									
MHz Buv/m B	MHz Buv/m B										
MHz dBuV/m dB dBuV/m dB dBuV/m dB Duv/m Duv/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak Peak	MHz dBuV/m dB dBuV/m dB dBuV/m dB Duv/m Duv/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak Peak										
MHz Buv/m B	MHz Buv/m B	F					_				
1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) p. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz dBuV/m dB dBuV/m dB dBuV/m dB Duv/m Duv/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak Peak	\vdash									
1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) p. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz dBuV/m dB dBuV/m dB dBuV/m dB Duv/m Duv/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak Peak										
1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) p. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz dBuV/m dB dBuV/m dB dBuV/m dB Duv/m Duv/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak Peak	F						_			
MHz Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak		00 3550.00	6100.00	8650.00 11	200.00 1375	0.00 1630	0.00 18850	00 21400		26500.00
MHz BuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz BuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	000		0100.00	0.000	200.00 1010		0.00 10000	21-00		
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak	MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 4873.0200 39.30 5.48 44.78 74.00 -29.22 Peak		Freq.	Reading			Limit	Margin			
				dBuV/m	dB	dBuV/m				or Com	ient
* 4874.0300 28.13 5.48 33.61 54.00 -20.39 AVG	* 4874.0300 28.13 3.48 33.61 34.00 -20.39 AVG	م									
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.	Me	asurement	Value = Re	ading Level	+ Correct Fa	actor.				
EMARKS:) Measurement Value = Reading Level + Correct Factor.) Margin Level = Measurement Value - Limit Value.	Measurement Value = Reading Level + Correct Factor.) Me	asurement	Value = Re = Measurer	ading Level 1ent Value -	+ Correct Fa Limit Value.	actor.				
) Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.) Me	asurement	Value = Re = Measurer	ading Level ıent Value -	+ Correct Fa	actor.				
) Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.) Me	asurement	Value = Re = Measurer	ading Level 1ent Value -	+ Correct Fa Limit Value.	actor.				
) Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.) Me	asurement	Value = Re = Measurer	ading Level nent Value -	+ Correct Fa	actor.				

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-20 -	1 1	1 1	Image: second	st N	/lode	TX AX	(HE	40) M	lode 24	437 MHz		Polarizatio	on	Но	rizonta	
Image: Note of the second se	Image: Note of the sector of the sector distribution of the sector distributicon of the sector distribution of the sector distrest di	Image: Note of the second se	Image: Note of the second se													
× ×	× ×	X X Image: Content of the sector of the	30 X	80 d	BuV/m											
X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB dBuV/m dB Detector Comment 4880. 3200 39. 22 5. 51 44. 73 74. 00 -29. 27 Peak	X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4880. 3200 39. 22 5. 51 44. 73 74. 00 -29. 27 Peak	X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB dBuV/m dB Detector Comment	30 X													
X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4880. 3200 39. 22 5. 51 44. 73 74. 00 -29. 27 Peak	X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4880. 3200 39. 22 5. 51 44. 73 74. 00 -29. 27 Peak	X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB dBuV/m dB Detector Comment	30 X													
× ×	× ×	X X Image: Content of the sector of the	30 X													
X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	X X Image: Contract Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	X X Image: Contract Measure ment Margin MHz dBuV/m dB dBuV/m dB Detector Comment 4880. 3200 39. 22 5. 51 44. 73 74. 00 -29. 27 Peak	30 X													
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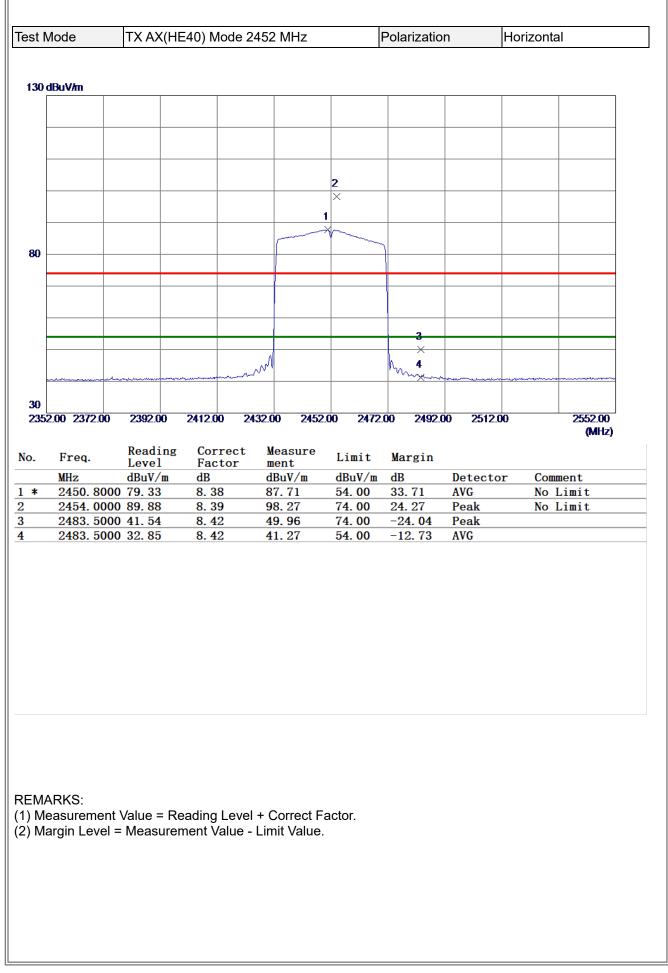
REMARKS:

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



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EMARKS:												
) Measurement Value = Reading Level + Correct Factor.) Measurement Value = Reading Level + Correct Factor.) Margin Level = Measurement Value - Limit Value.) Me	easuremen	t Value = F = Measure	Reading ement \	ı Level - /alue - L	+ Correct Fa _imit Value.	actor.				
) Measurement Value = Reading Level + Correct Factor.) Measurement Value = Reading Level + Correct Factor.) Margin Level = Measurement Value - Limit Value.) Me	easuremen	t Value = F = Measure	Reading ement \	ı Level - /alue - L	+ Correct Fa _imit Value.	actor.				

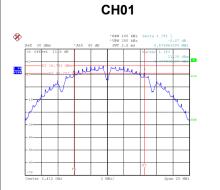


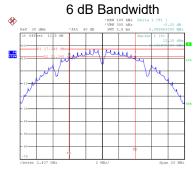
APPENDIX E - BANDWIDTH



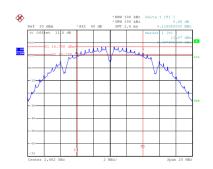
Test Mode	e TX E	3 Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.58	13.04	0.50	Complies
06	2437	8.06	13.12	0.50	Complies
11	2462	8.12	13.12	0.50	Complies

CH06

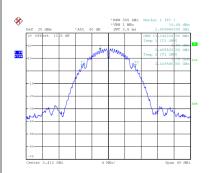




CH11

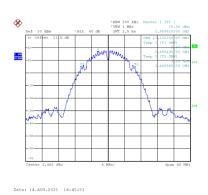






99 % Occupied Bandwidth

Date: 14.AUG.2021 16:45:44



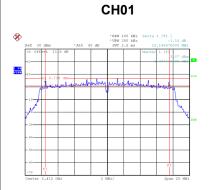
Date: 14.AUG.2021 16:40:31

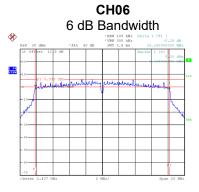
Date: 14.AUG.2021 16:42:00

Date: 14.AUG.2021 16:41:53



IX G	6 Mode			
requency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
2412	15.15	16.56	0.50	Complies
2437	16.34	16.64	0.50	Complies
2462	15.67	16.56	0.50	Complies
r	(MHz) 2412 2437	(MHz) (MHz) 2412 15.15 2437 16.34	(MHz) (MHz) (MHz) 2412 15.15 16.56 2437 16.34 16.64	(MHz) (MHz) (MHz) (MHz) 2412 15.15 16.56 0.50 2437 16.34 16.64 0.50

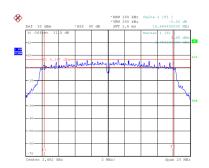




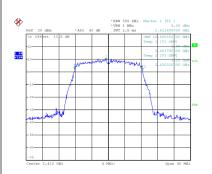
Date: 14.AUG.2021 16:49:05

Date: 14.AUG.2021 16:49:12

CH11

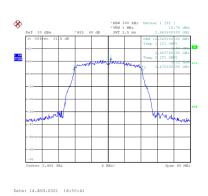


Date: 14.AUG.2021 16:47:36



99 % Occupied Bandwidth

Date: 14.AUG.2021 16:50:34

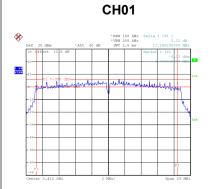


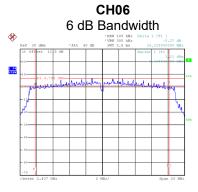
Date: 14.AUG.2021 16:47:43

Page 121 of 166

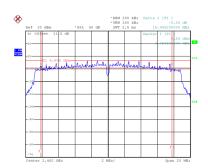


Test Mode	e TX N	N(HT20) Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.20	17.60	0.50	Complies
06	2437	16.32	17.68	0.50	Complies
11	2462	15.95	17.60	0.50	Complies

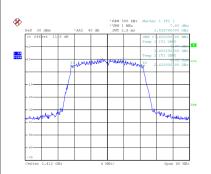




CH11

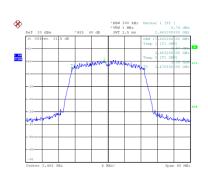


Date: 14.AUG.2021 16:52:01



99 % Occupied Bandwidth

Date: 14.AUG.2021 16:55:22



Date: 14.AUG.2021 16:52:08

37 GHz 4 MHz/

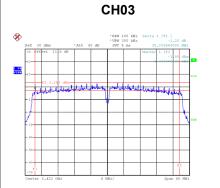
Date: 14.AUG.2021 16:53:44

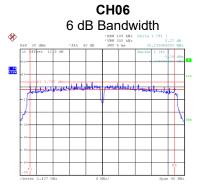
Date: 14.AUG.2021 16:53:37

Date: 14.AUG.2021 16:55:29

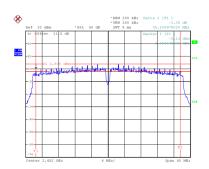


Test Mode	e TX N	N(HT40) Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.21	36.32	0.50	Complies
06	2437	35.24	36.16	0.50	Complies
09	2452	35.11	36.16	0.50	Complies

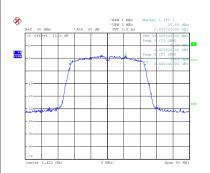




CH09

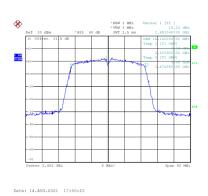


Date: 14.AUG.2021 16:57:33



99 % Occupied Bandwidth

Date: 14.AUG.2021 17:00:17



Date: 14.AUG.2021 16:57:40

Date: 14.AUG.2021 16:59:01

Date: 14.AUG.2021 16:58:54