

FCC Radio Test Report

FCC ID: KA2DIR2150A1

This report concerns: Original Grant

Project No.	2004H020	
Equipment	1) AC2100 Mesh Wi-Fi Gigabit Rout	ter
	2) AC2100 Wi-Fi Gigabit Router	
Brand Name	D-Link	
Test Model	DIR-2150	
Series Model	N/A	
Applicant	D-Link Corporation	
Address	17595 Mt. Herrmann, Fountain Valley	v, California United State 92708
Manufacturer	D-Link Corporation	
Address	17595 Mt. Herrmann, Fountain Valley	, California United State 92708
Factory	N/A	
Address	N/A	
Date of Receipt	April. 17, 2020	
Date of Test	May. 01, 2020~May. 22, 2020	
Issued Date	Jul. 07, 2020	
Report Version	R00	
Test Sample	Engineering Sample No.: SH2020047	1790
Standard(s)	FCC Part15, Subpart C (15.247)	
	ANSI C63.10-2013	
	KDB 558074 D01 15.247 Meas Guida	ance v05r02

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

Vu

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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 Version	Description	Issued Date
R00	Original Issue.	Jul. 07, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)							
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		PASS				
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS				
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS				
15.247(e)	Power Spectral Density	APPENDIX H	PASS				
15.203	Antenna Requirement		PASS	Note(2)			

Note:

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

1.1 TEST FACILITY

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

BTL's Designation Number for FCC: CN1241



1.2 MEASUREMENT UNCERTAINTY

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

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	Н	3.57
		30 MHz~200 MHz	V	4.04
	CISPR	30 MHz~200 MHz	Н	3.76
SH-CB01		200 MHz~1,000 MHz	V	4.24
31-0001		200 MHz~1,000 MHz	Н	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	Н	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	Н	3.95

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	20°C	54%	AC 120V/60Hz	Forest Li
Radiated Emissions-9K-30MHz	23.6°C	64%	AC 120V/60Hz	Forest Li
Radiated Emissions-30 MHz to 1GHz	23.6°C	64%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	23.6°C	64%	AC 120V/60Hz	Forest Li
Bandwidth	26°C	54%	AC 120V/60Hz	Forest Li
Maximum output power & e.i.r.p.	26°C	54%	AC 120V/60Hz	Forest Li
Conducted Spurious Emissions	26°C	54%	AC 120V/60Hz	Forest Li
Power Spectral Density	26°C	54%	AC 120V/60Hz	Forest Li



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipmont	1) AC2100 Mesh Wi-Fi Gigabit Router
Equipment	2) AC2100 Wi-Fi Gigabit Router
Brand Name	D-Link
Test Model	DIR-2150
Series Model	N/A
Model Difference(s)	N/A
Software Version	1
Hardware Version	A1
Power Source	DC voltage supplied from AC/DC adapter. Adapter Model: S12A12-120A100-CJ
Power Rating	I/P: AC 100-240V ~50/60Hz max 0.5A O/P:12V ===1A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum Output Power CDD	IEEE 802.11b: 25.89 dBm (0.3882 W) IEEE 802.11g: 27.34 dBm (0.5420 W) IEEE 802.11n (HT20): 27.97 dBm (0.6266 W) IEEE 802.11n (HT40): 27.75 dBm (0.5957 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) CH03 - CH09 for IEEE 802.11n (HT40)							
Channel								
01	01 2412 04 2427 07 2442 10 2457							
02 2417 05 2432 08 2447 11 2462								
03	2422	06	2437	09	2452			



For 1T1R

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Dipole	N/A	5	N/A

For 2T2R

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Dipole	N/A	5	N/A
2	N/A	N/A	Dipole	N/A	5	N/A

Note:

(1) CDD:

All antennas have the same gain, Directional gain = G_{ANT} +Array Gain,

For power spectral density measurements, $N_{ANT} = 4$, NSS = 1. So Directional gain = G_{ANT} + Array Gain =10log (N_{ANT}/N_{SS}) dB =5+10log(2/1)dBi=8.01. Then, the power density limit is 8-(8.01-6)=5.99.

For power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), so the Directional gain=5.

4. Table for Antenna Configuration:

Operating Mode TX Mode	Ant. 1	Ant. 2	Ant. 1 + Ant. 2
802.11b	\checkmark	~	×
802.11g	\checkmark	\checkmark	×
802.11n(20 MHz)	\checkmark	\checkmark	\checkmark
802.11n(40 MHz)	~	✓	\checkmark

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	X B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	
Mode 5	TX N20 Mode Channel 11	

Following mode(s) as (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 5	TX N20 Mode Channel 11	

Radiated emissions test - Below 1GHz		
Final Test Mode: Description		
Mode 5	TX N20 Mode Channel 11	

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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Conducted test		
Final Test Mode:	Description	
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	





NOTE:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: CCK (1 Mbps)
 - 802.11g mode: OFDM (6 Mbps)
 - 802.11n HT20 mode : BPSK (13 Mbps)
 - 802.11n HT40 mode : BPSK (27 Mbps)
 - For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n20 Channel 11 is found to be the worst case and recorded.



2.3 PARAMETERS OF TEST SOFTWARE

CDD

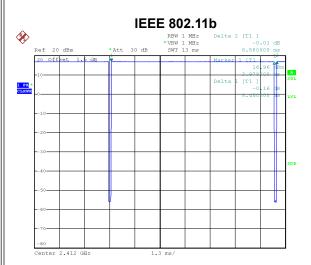
Test Software	QA			
Frequency (MHz)	2412 2437 2462			
IEEE 802.11b	22	27	24	
IEEE 802.11g	1B	2A	1B	
IEEE 802.11n (HT20)	16	16	16	
Frequency (MHz)	2422	2437	2452	
IEEE 802.11n (HT40)	11	15	11	



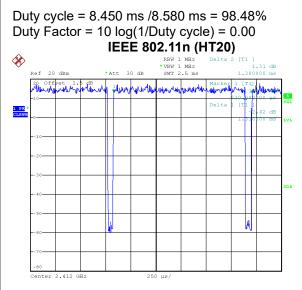


2.4 DUTY CYCLE

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: 21.MAY.2020 21:34:48



Date: 21.MAY.2020 21:39:06

Duty cycle = 1.310 ms / 1.380 ms = 94.93% Duty Factor = 10 log(1/Duty cycle) = 0.23,

NOTE:

For IEEE 802.11b:

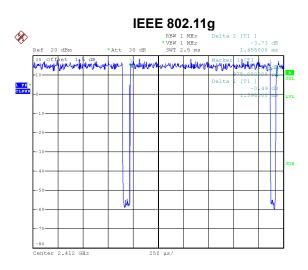
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle > 98%).

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

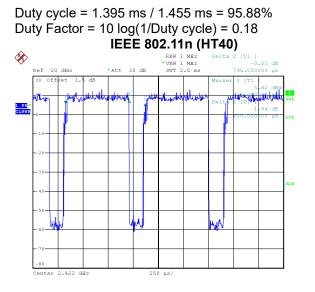
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

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 3 kHz (Duty cycle < 98%).



Date: 21.MAY.2020 21:42:14



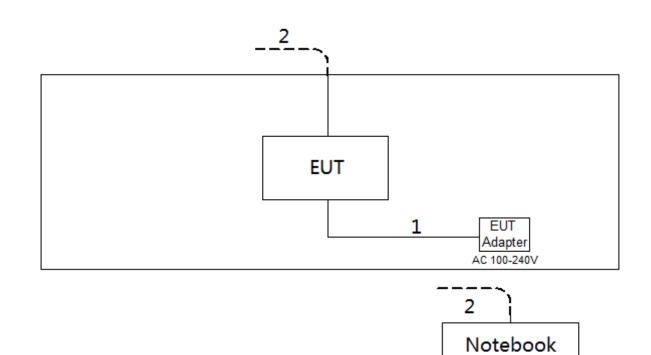
Date: 21.MAY.2020 21:41:45

Duty cycle = 0.635 ms / 0.795 ms = 79.87% Duty Factor = 10 log(1/Duty cycle) = 0.96



Α

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

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



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (d	BμV)
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 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.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

3.2 TEST PROCEDURE

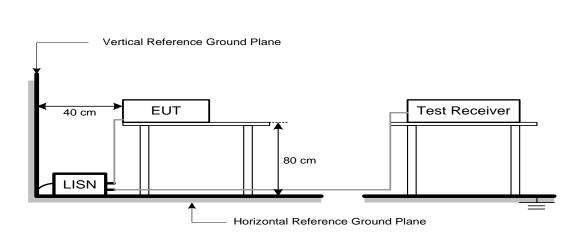
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

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 TEST

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at 1.5m (dBµV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value
- (5)

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

20log d limit/d measure=20log 3/1.5=6 dB.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1 MHz / 3 MHz for Peak,
(Emission in restricted band)	1 MHz / 1/T for Average

Receiver Parameter	Setting	
Attenuation	Auto	
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	

4.2 TEST PROCEDURE

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

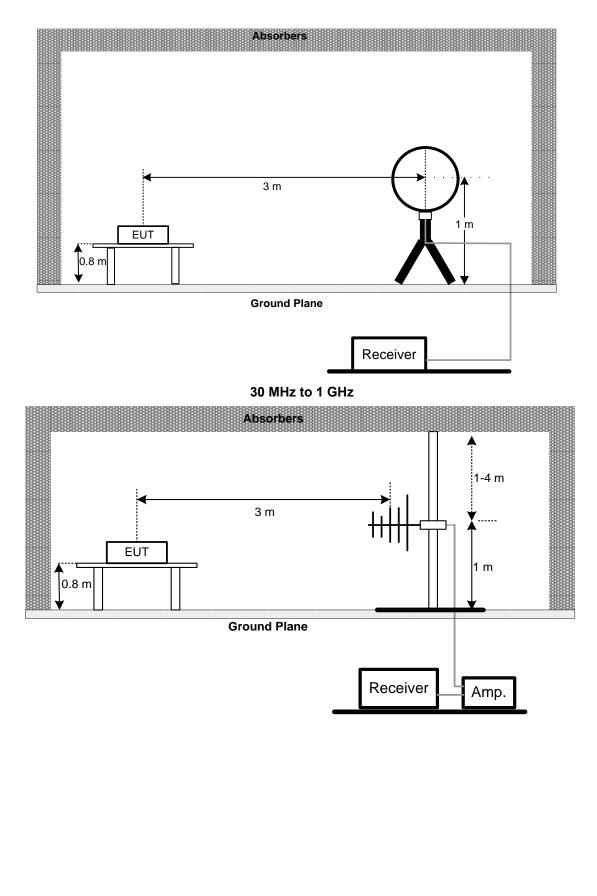
4.3 DEVIATION FROM TEST STANDARD

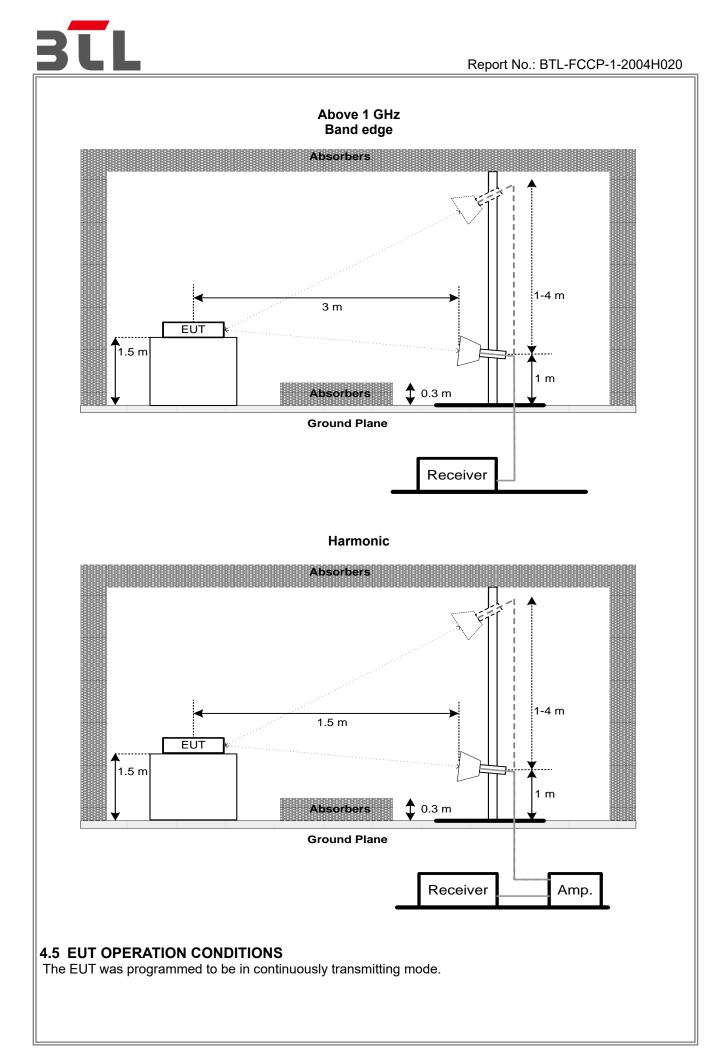
No deviation



4.4 TEST SETUP

9 kHz-30 MHz







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 TEST

5.1 LIMIT

FCC Part15, Subpart C (15.247)					
Section Test Item Limit					
15.047(a)(0)	6 dB Bandwidth	Minimum 500 kHz			
15.247(a)(2)	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. Spectrum Setting:

For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.

For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms. For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.

c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



SPECTRUM ANALYZER

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 TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
15.247(b)(3) Maximum Output Power 1 Watt or 30dBm				

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 (for peak power) or 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

EUT	Power Meter

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. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



SPECTRUM ANALYZER

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 TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)					
Section Test Item Limit					
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)			
1012 11 (0)		(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. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021		
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Sep. 01, 2020		
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Jul. 15, 2020		
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 28, 2021		
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 21, 2021		
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emissions - 9 kHz to 30 MHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 28, 2021		
2	EMI Test Receiver	R&S	ESCI	100082	Mar. 28, 2021		
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 28, 2021		
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021		
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2021		
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 16, 2021		
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 16, 2021		
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 16, 2021		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Mar. 28, 2021		
2	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 28, 2021		
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 21, 2021		
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 16, 2021		
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 16, 2021		
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 16, 2021		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 28, 2021		
9	Antenna	Schwarzbeck	BBHA9170	9170-651	Apr. 02, 2021		
10	Pre-Amplifier	EMC INSTRUMENT	EMC184045B	980265	Mar. 21, 2021		
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2021		
12	Test Cable	emci	EMC102-SM-SM-8 00	170335	Apr. 13, 2021		
13	Test Cable	emci	EMC102-KM-KM-2 500	170627	Apr. 13, 2021		
14		Mana Santana	Bandwidth	O a mi a l N la	O alliburate al un t'l		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 21, 2021		

1	opectium Analyzei	Rao	10140	100020	Mai. 21, 2021
		Maxir	num Output Power		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2021
2	Wideband Power	Kovsight	N0123A	MV58310003	Mar 21 2021

2	Sensor	Keysight	N9123A	MY58310003	Mar. 21, 2021		
	Antenna Conducted Spurious Emissions						
Iten	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 21, 2021		

N9123A

MY58310003

Mar. 21, 2021

	Power Spectral Density											
lt	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
	1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 21, 2021						

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

Keysight

All calibration period of equipment list is one year.

2



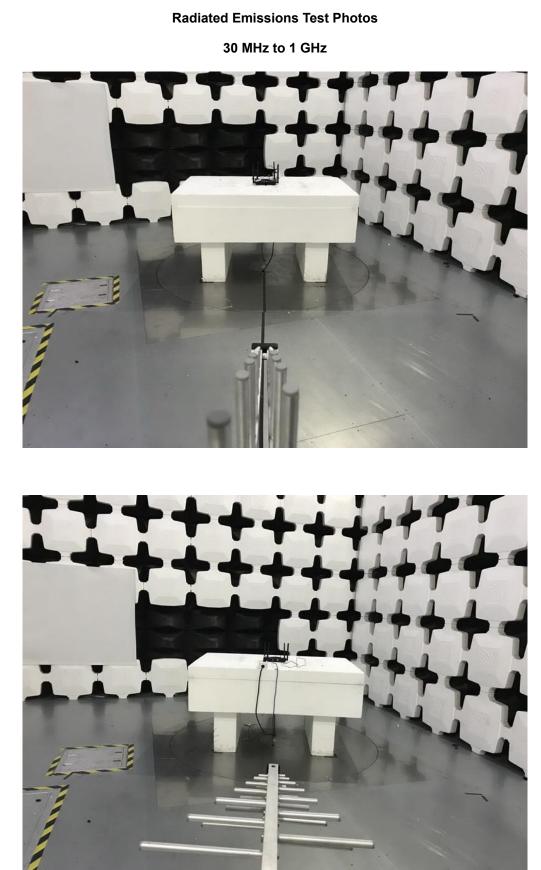
10. EUT TEST PHOTO

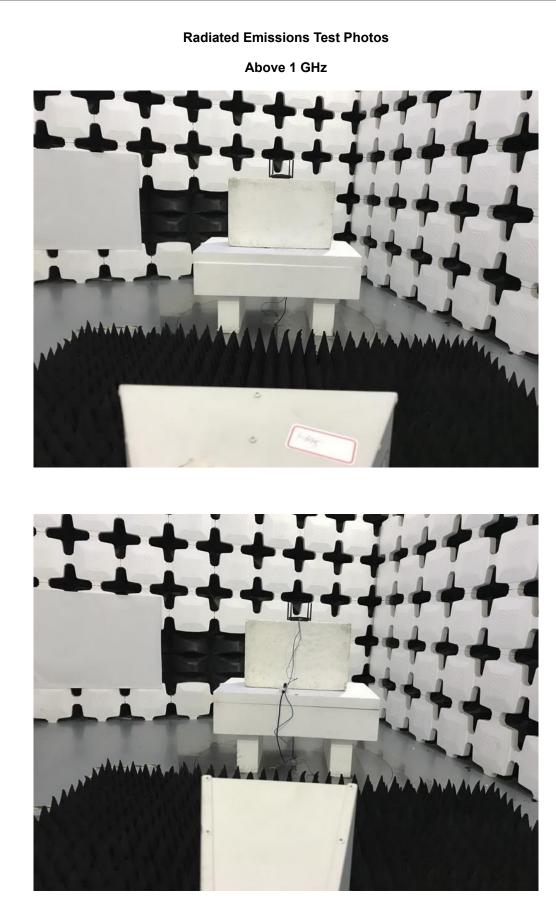
Conducted Emissions Test Photos







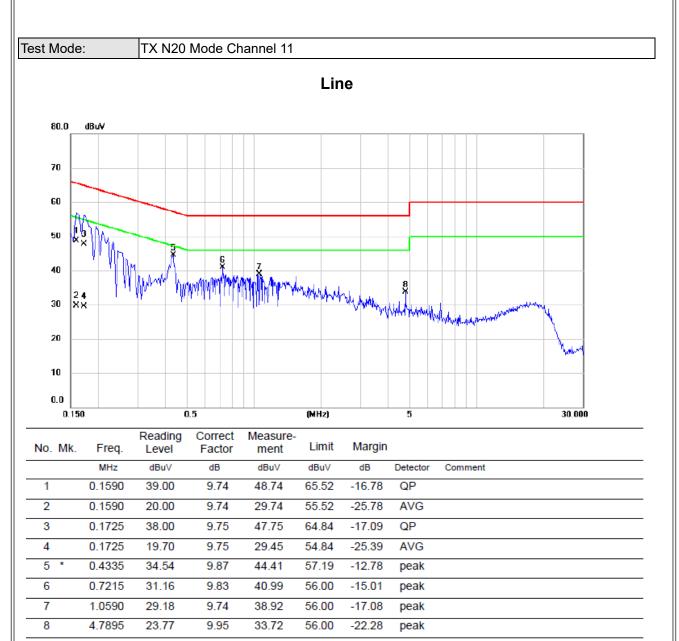






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



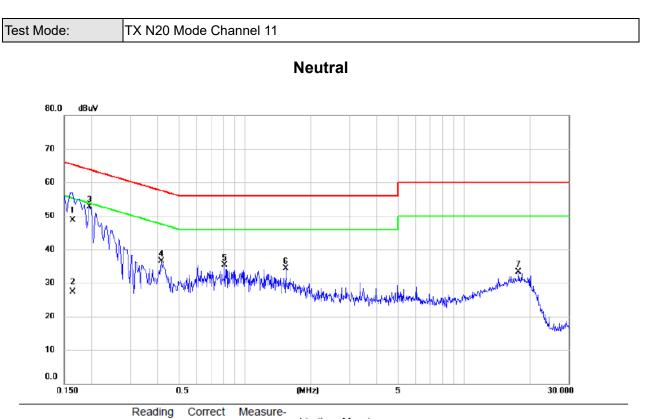


REMARKS:

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

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





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	39.00	9.61	48.61	65.28	-16.67	QP	
2		0.1635	17.60	9.61	27.21	55.28	-28.07	AVG	
3	*	0.1950	43.03	9.63	52.66	63.82	-11.16	peak	
4		0.4155	26.82	9.67	36.49	57.54	-21.05	peak	
5		0.8115	25.60	9.71	35.31	56.00	-20.69	peak	
6		1.5360	24.56	9.76	34.32	56.00	-21.68	peak	
7		17.6820	22.97	10.31	33.28	60.00	-26.72	peak	

REMARKS:

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

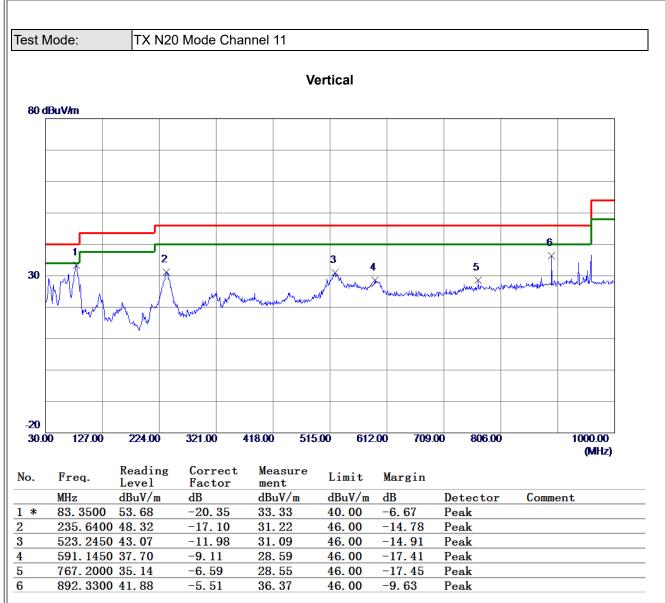


APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: Below 30MHz, The measured value have enough margin over 20dB than the limit, therefore they are not reported

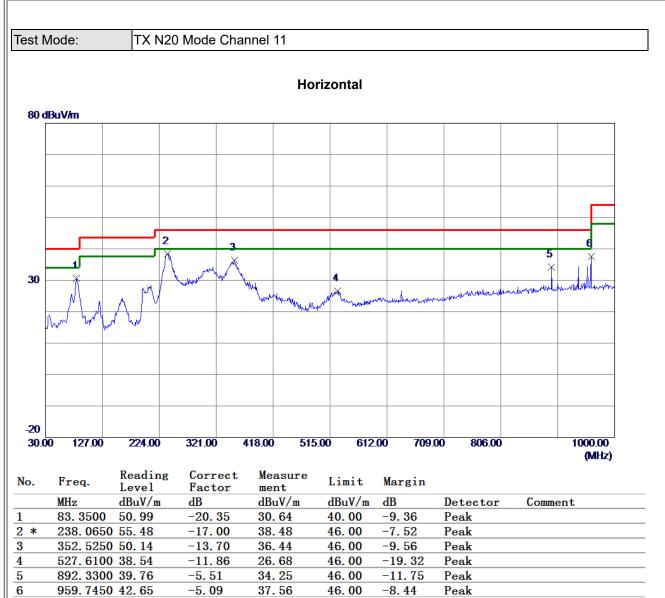
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ





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



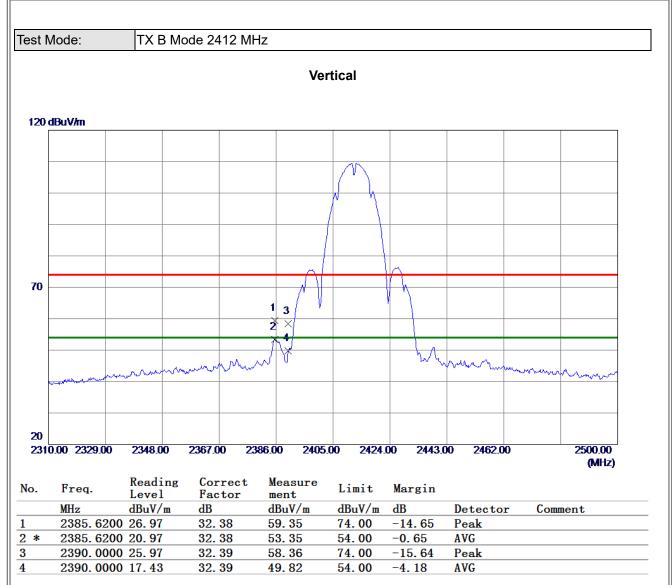


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



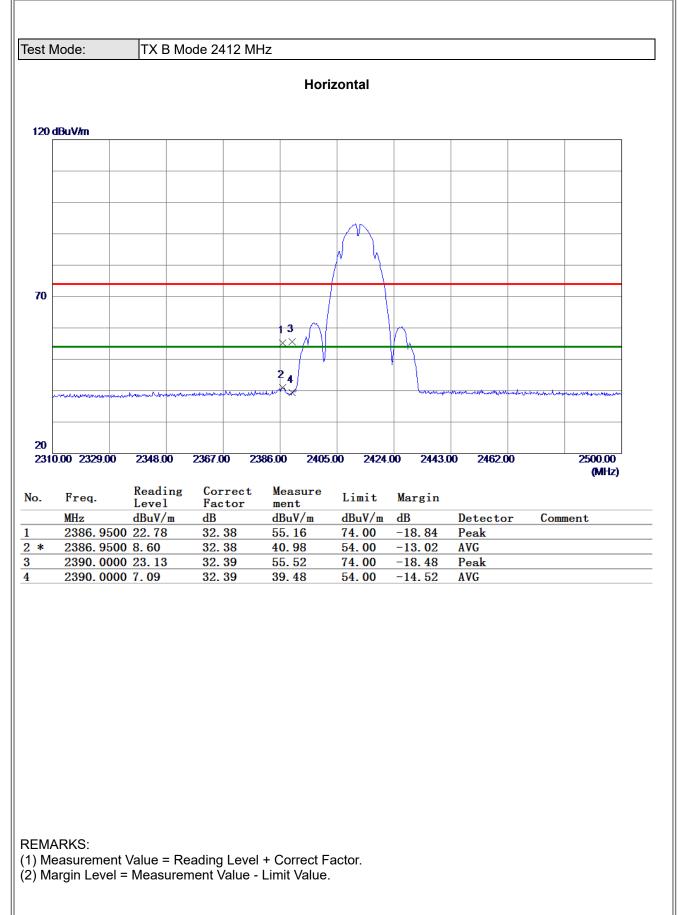


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

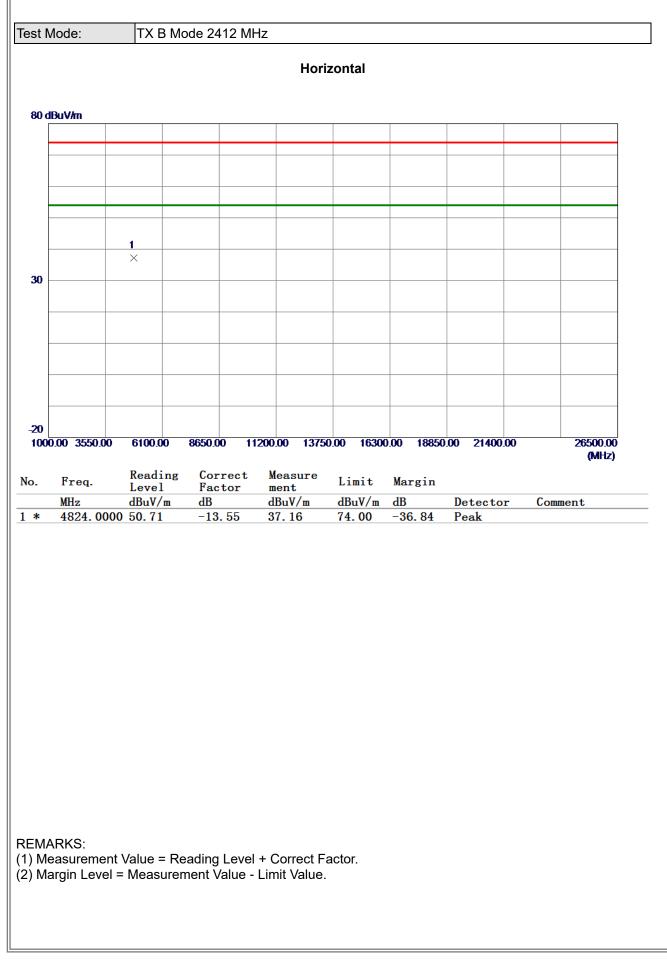




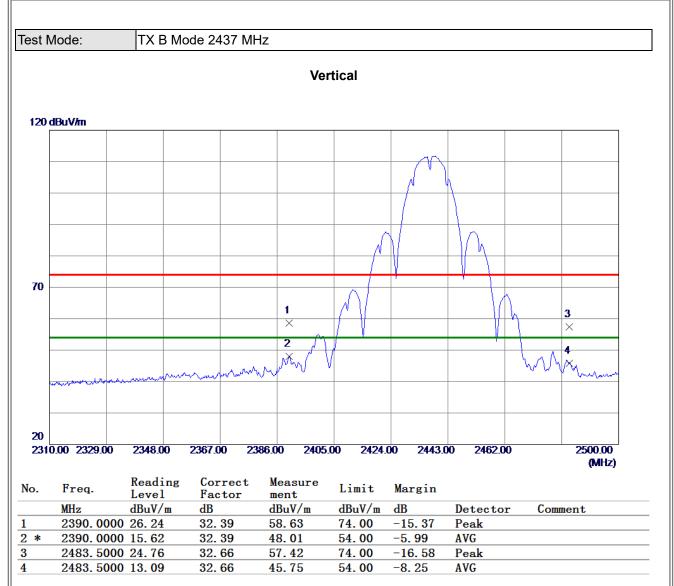










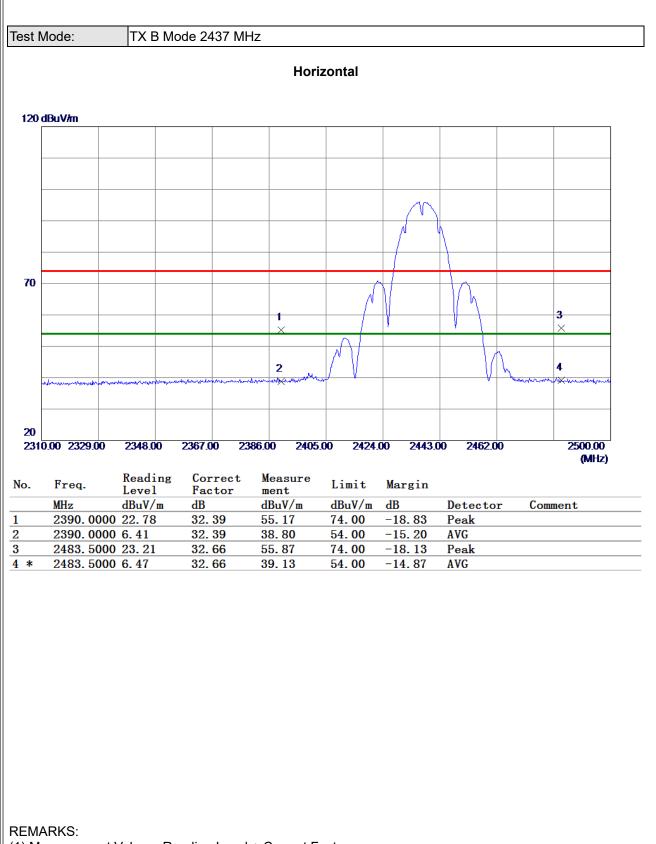


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





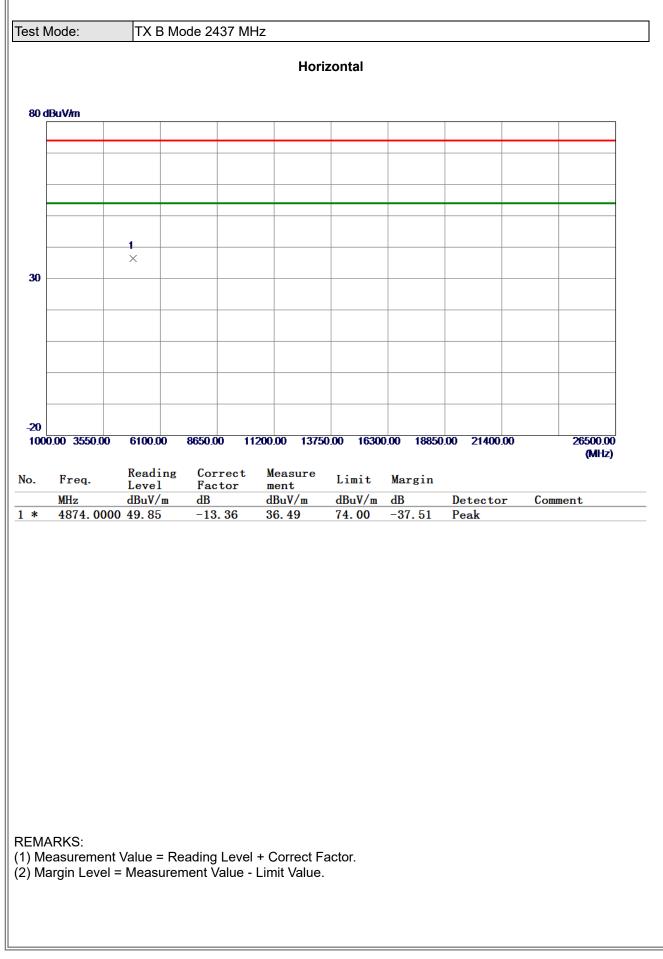




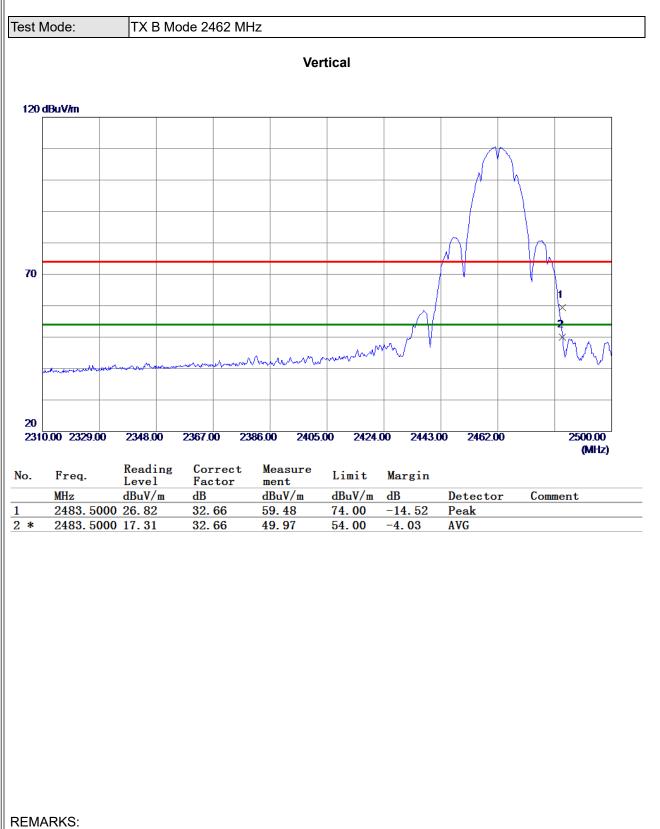
(1) Measurement Value = Reading Level + Correct Factor.

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



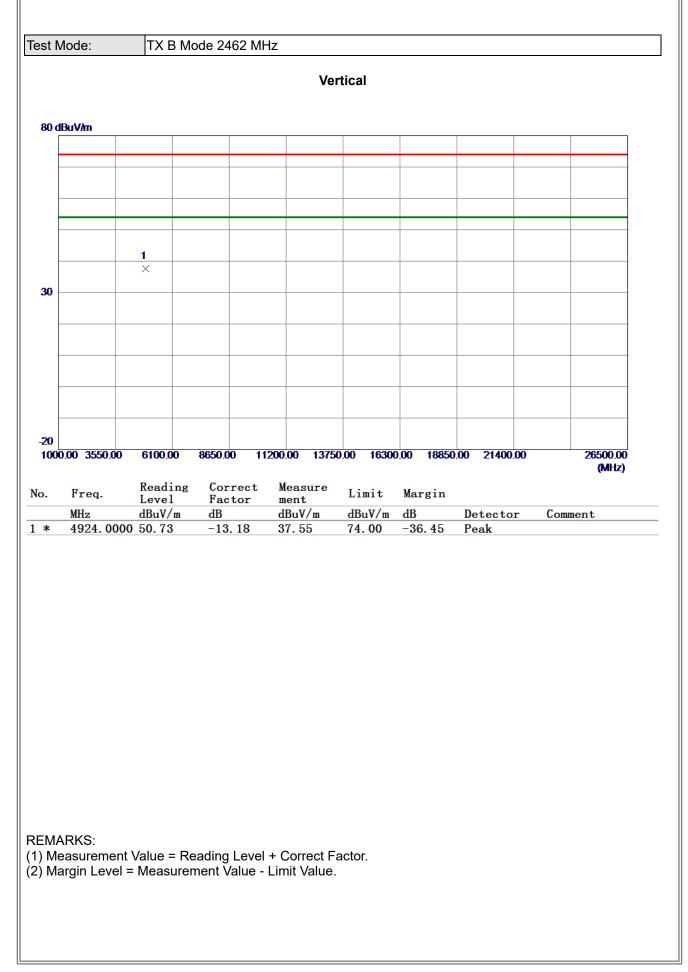




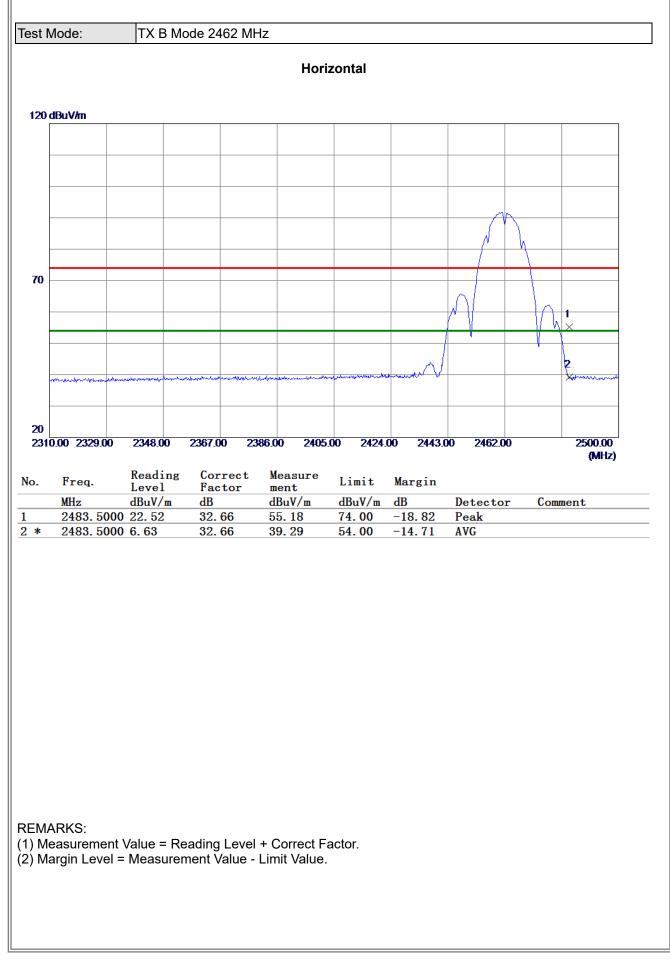


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

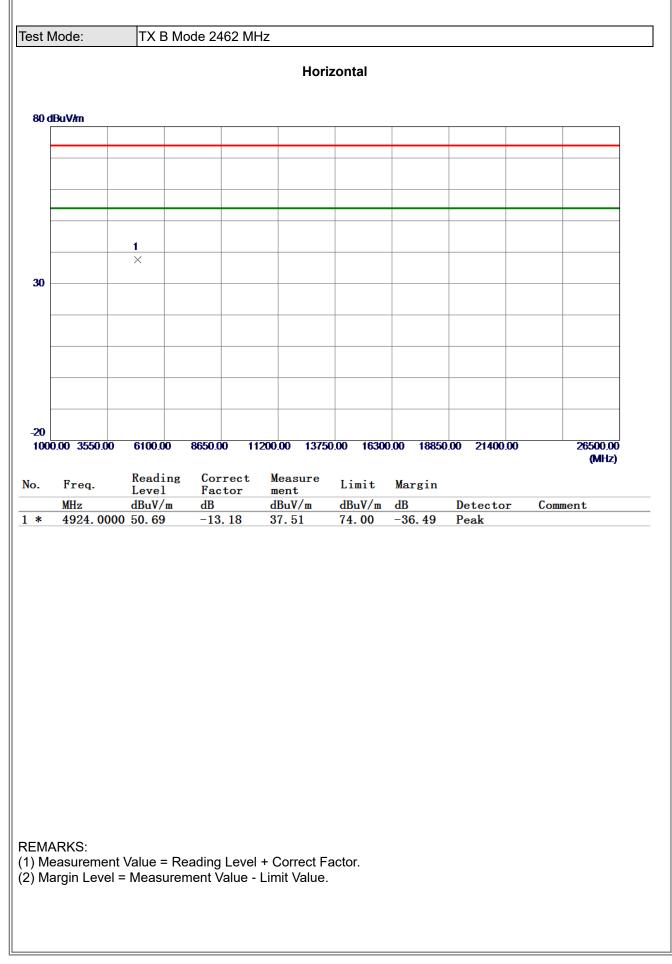




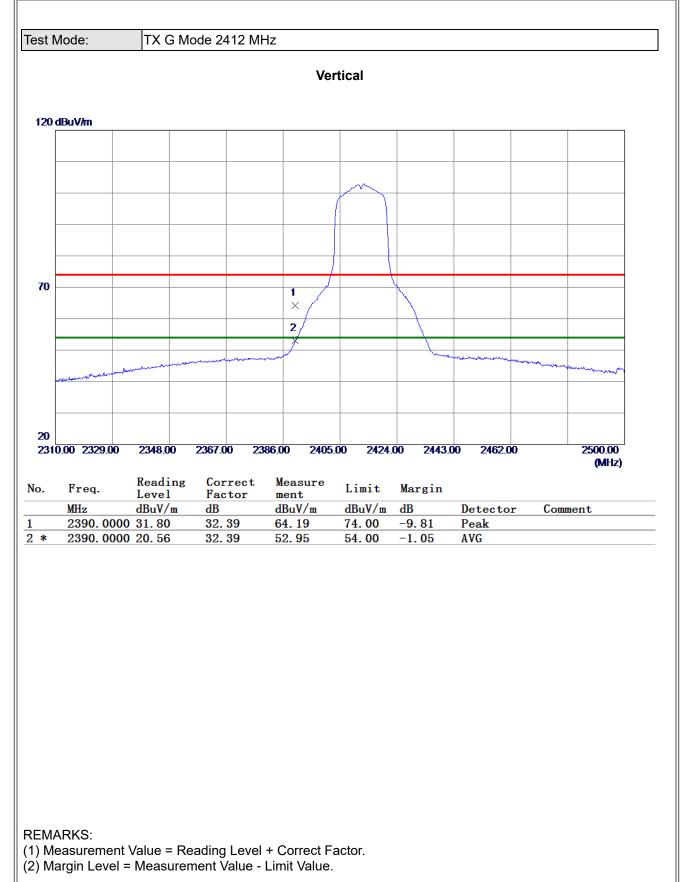




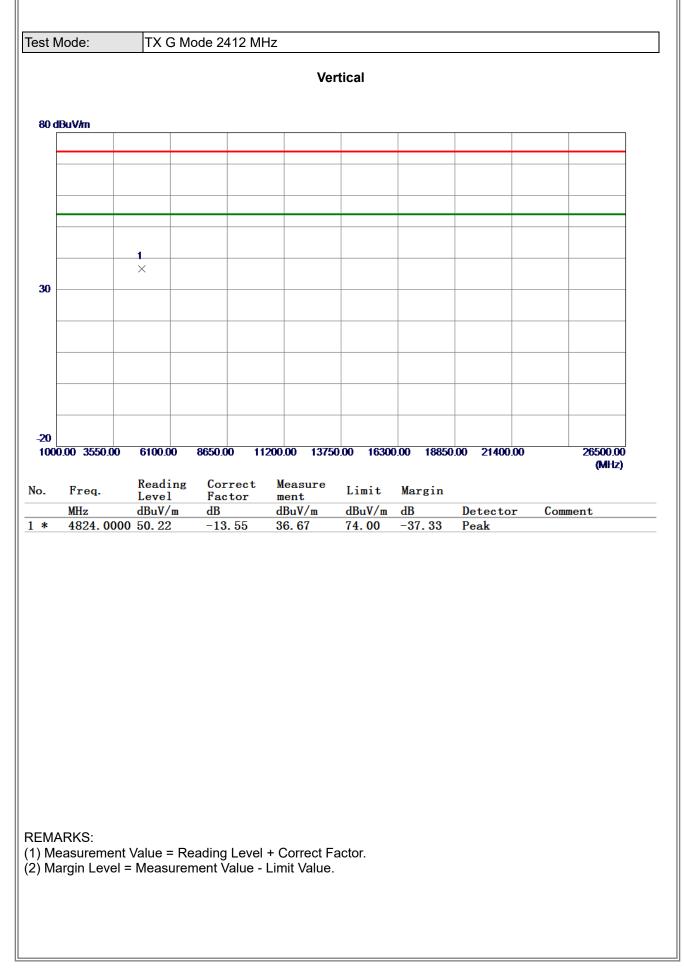




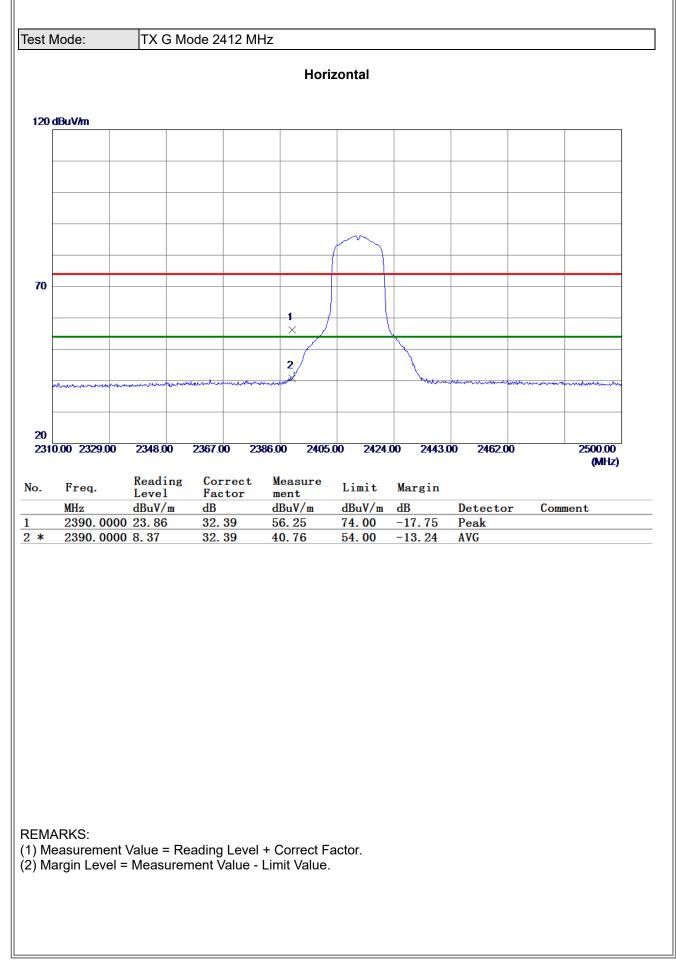




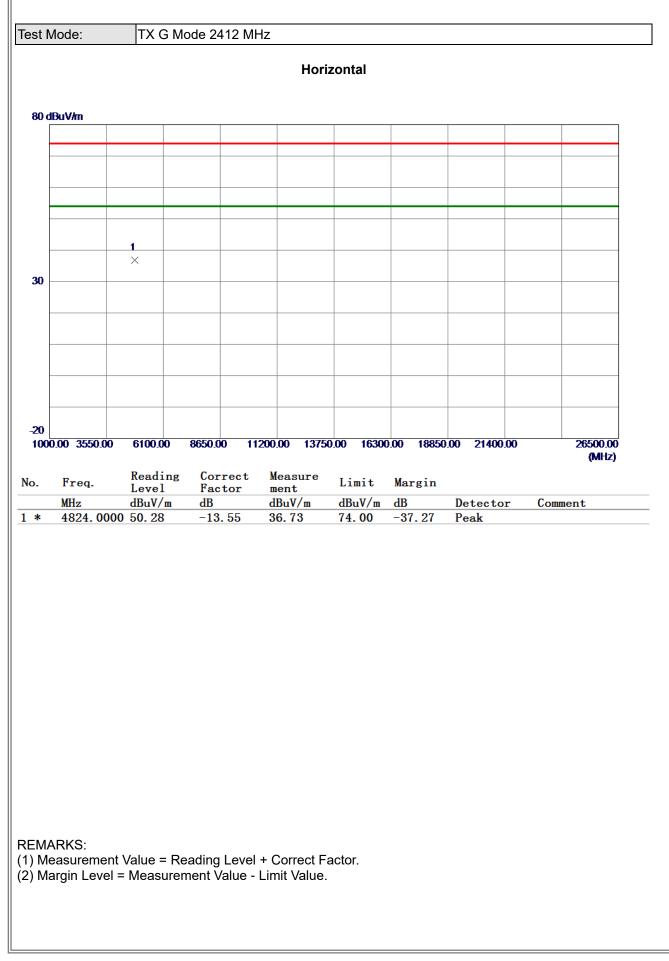




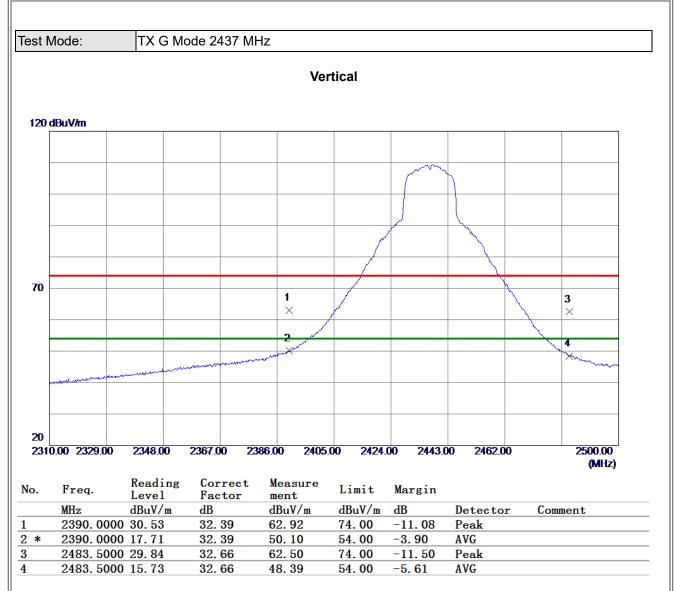








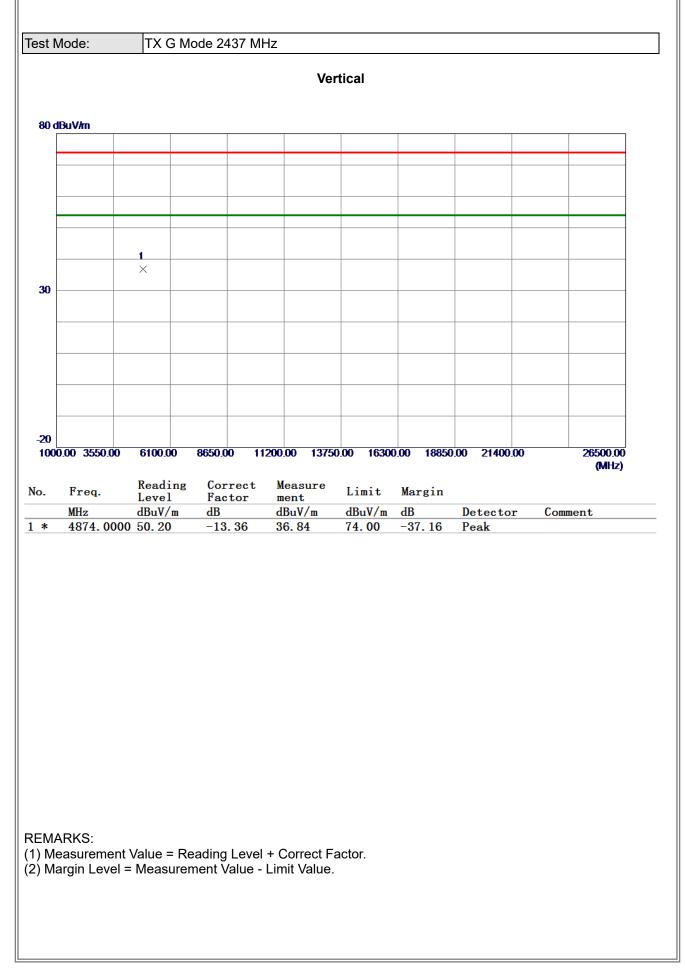




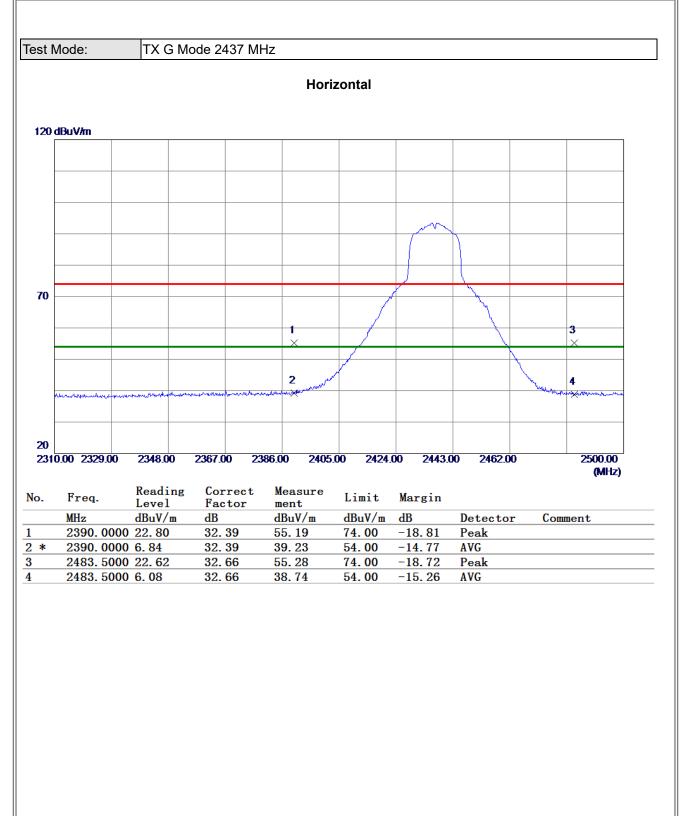
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(2) Margin Level = Measurement Value - Limit Value.





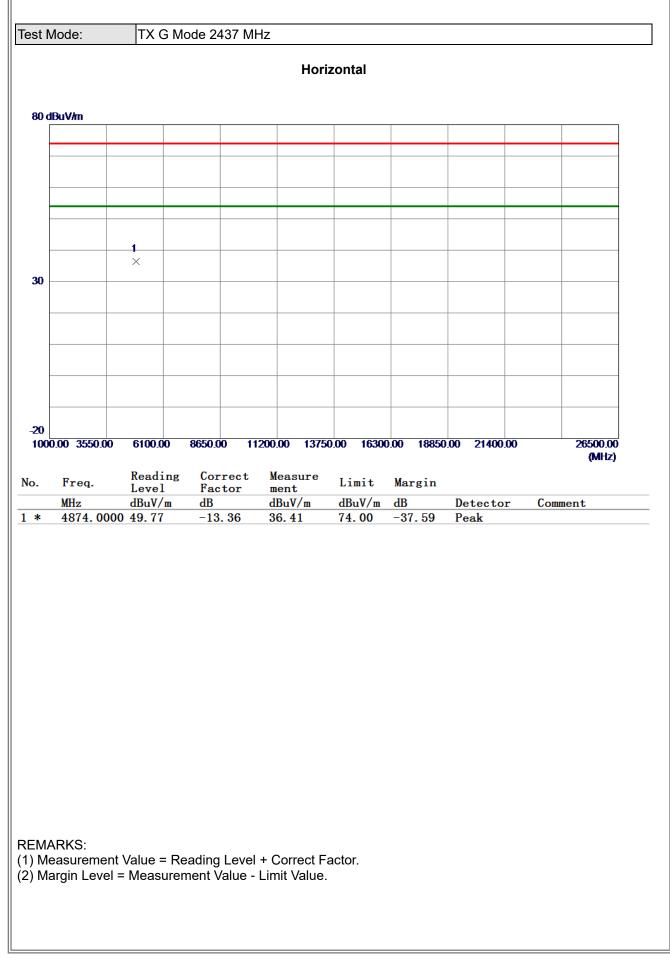




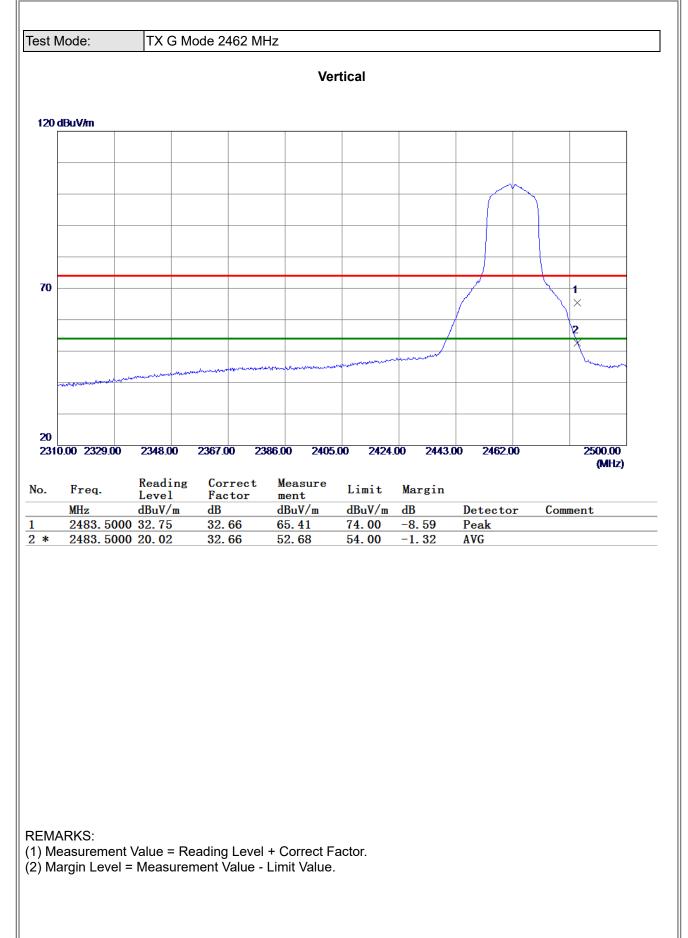
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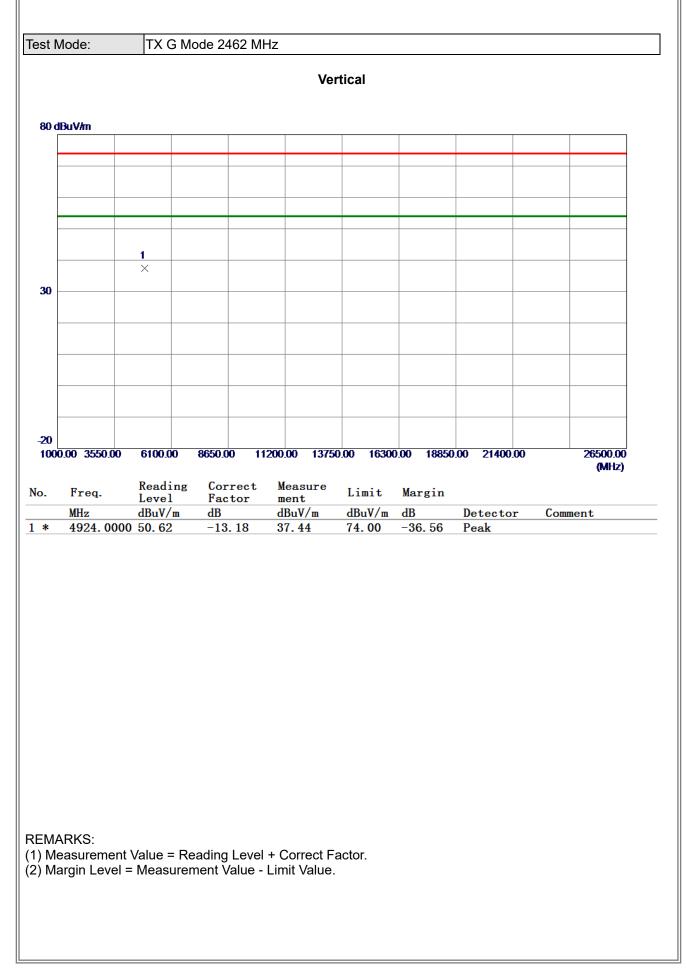




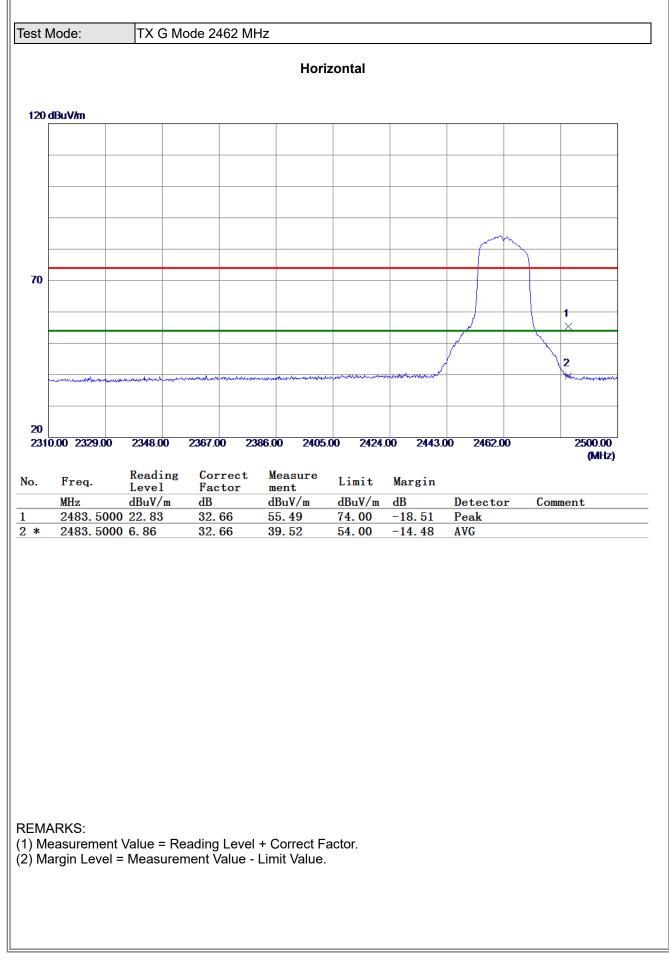




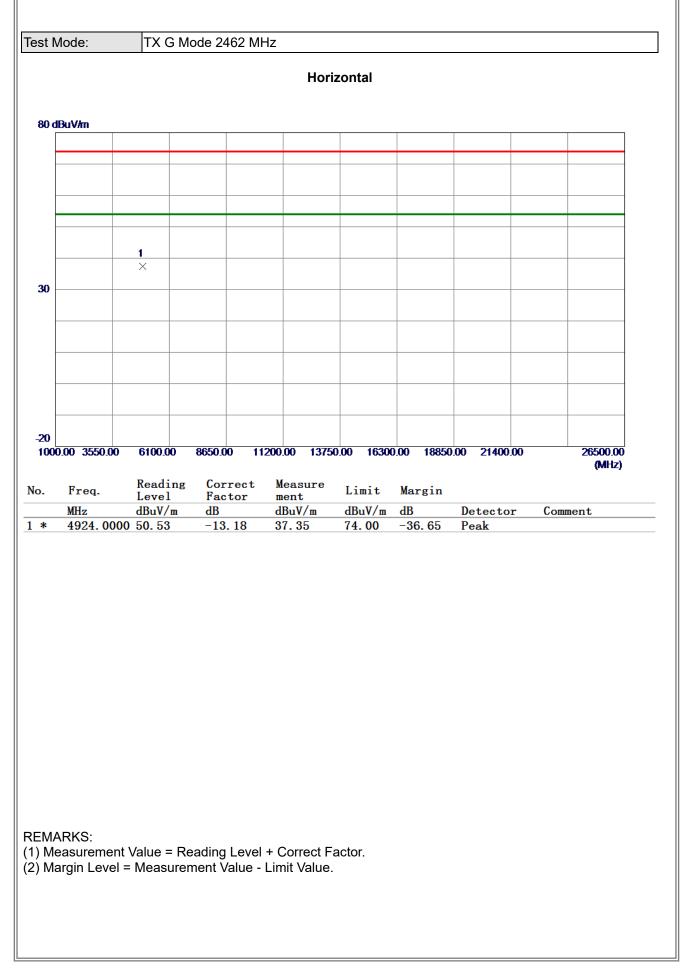




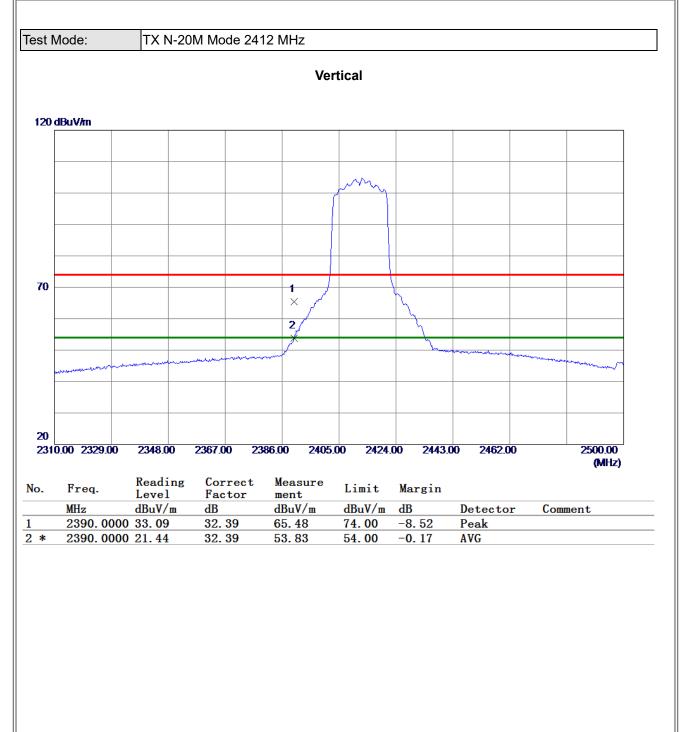






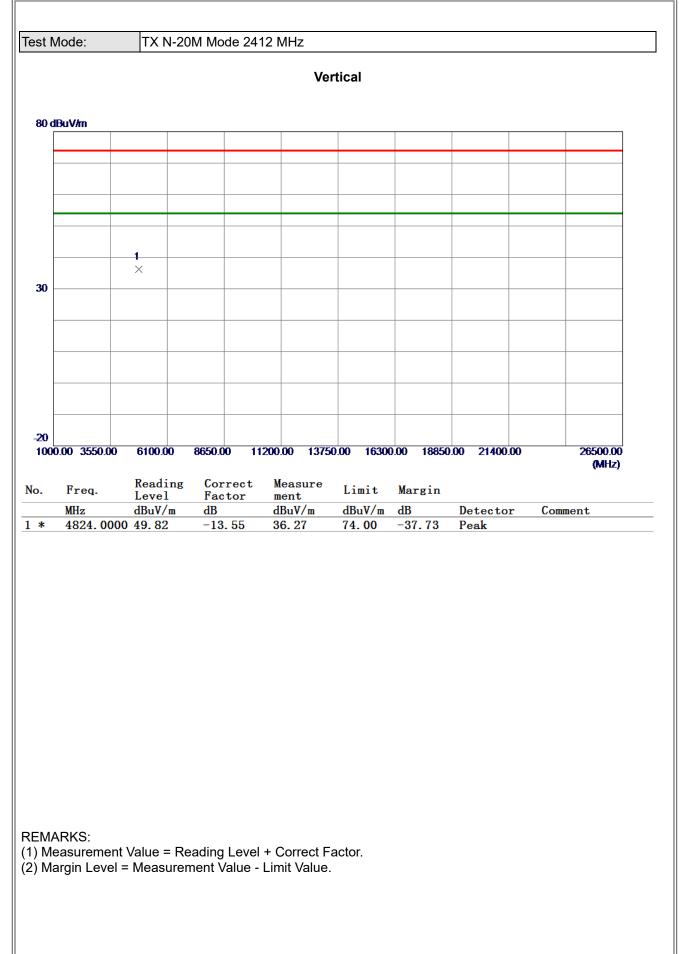




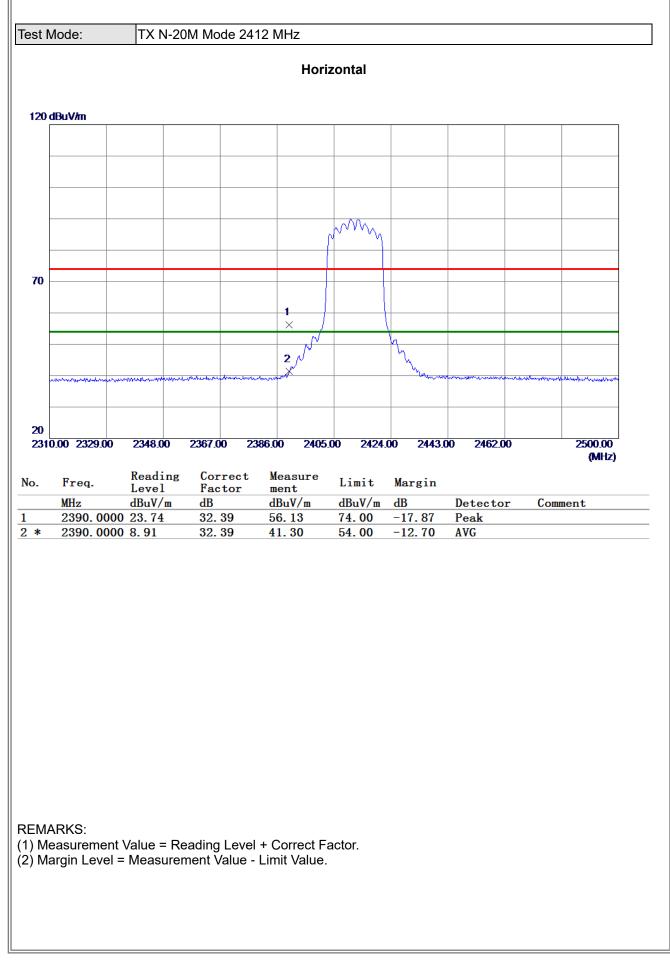


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

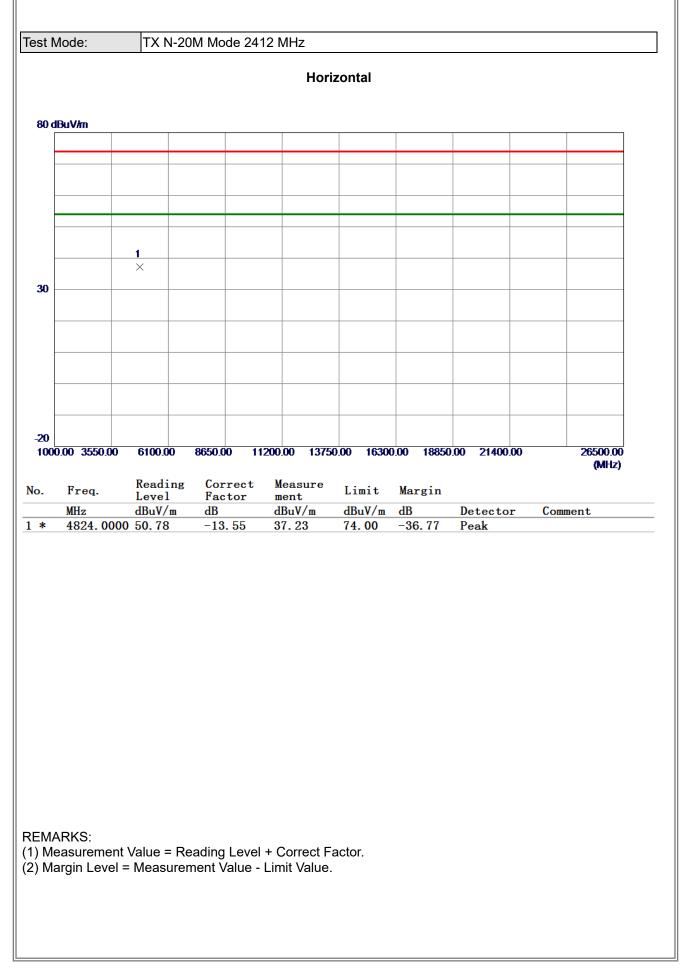




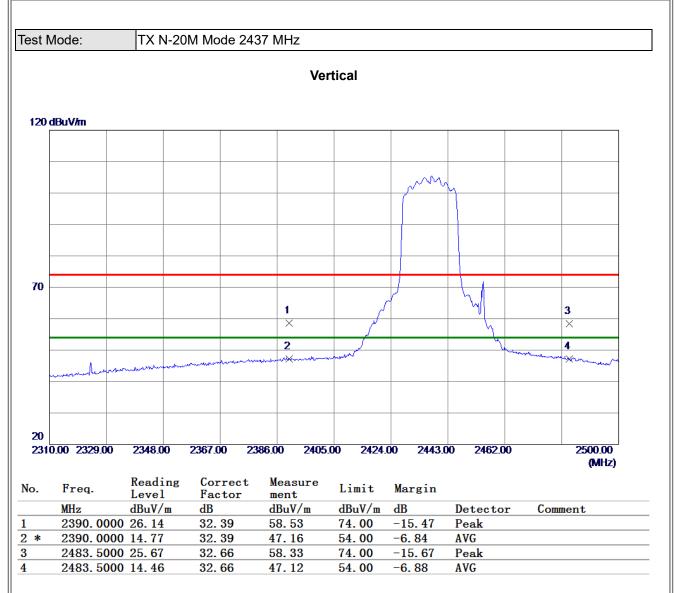






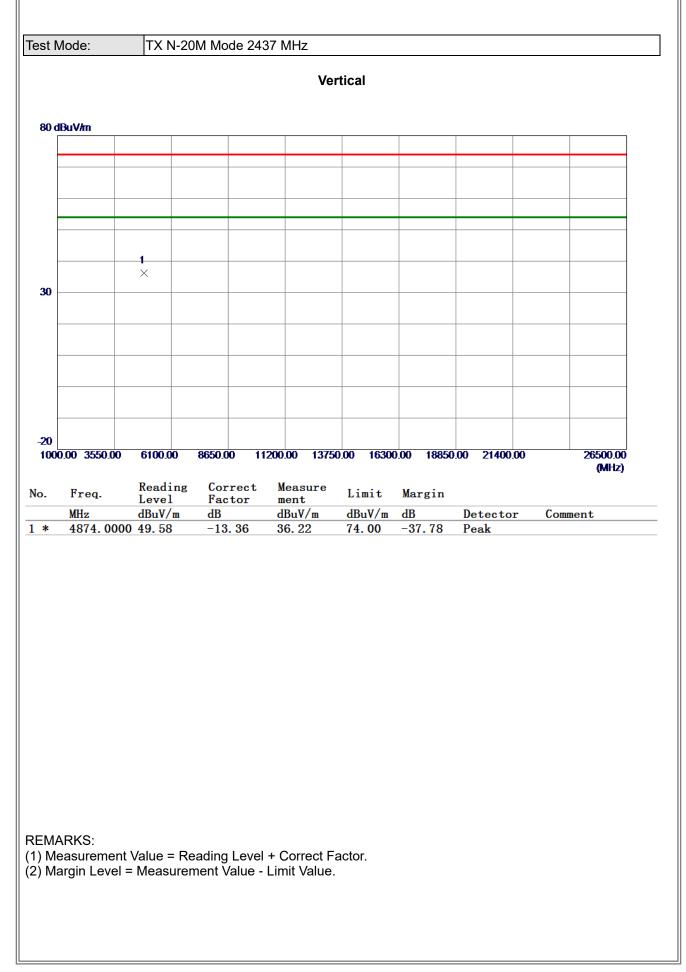




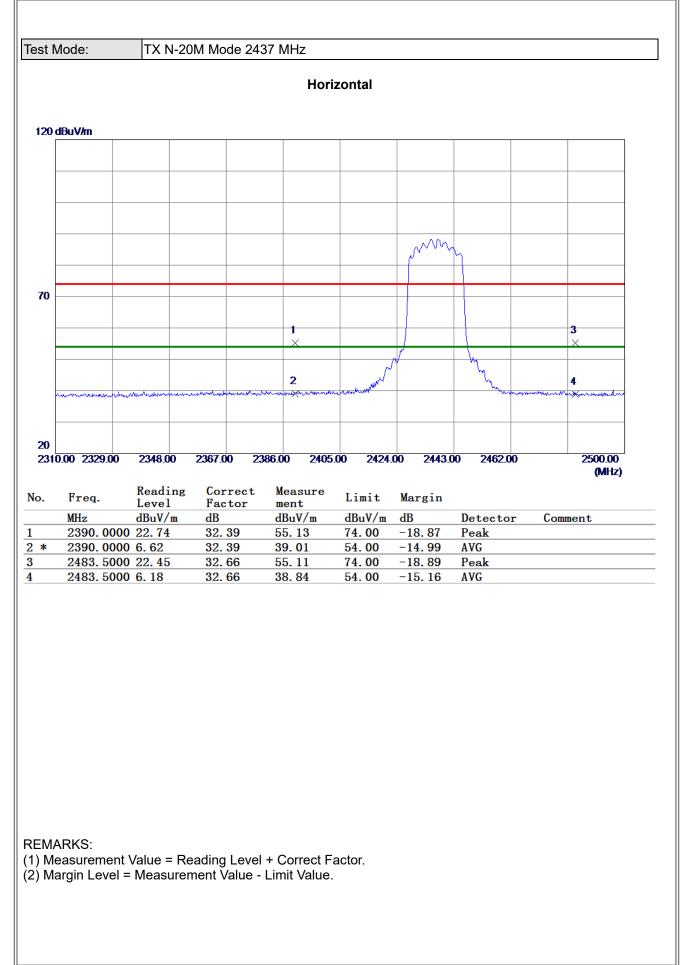


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

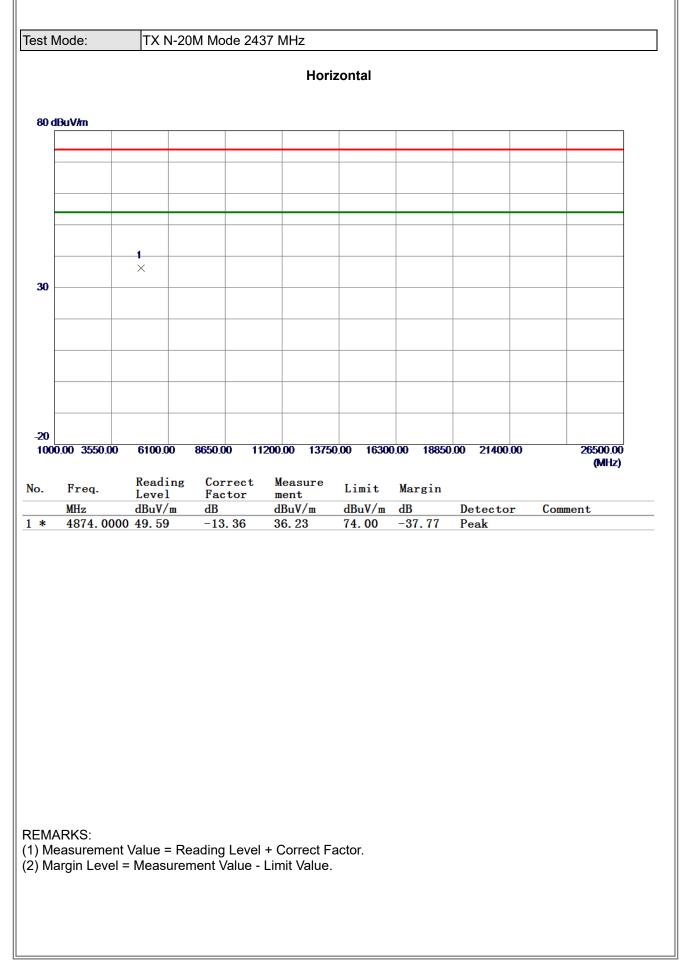




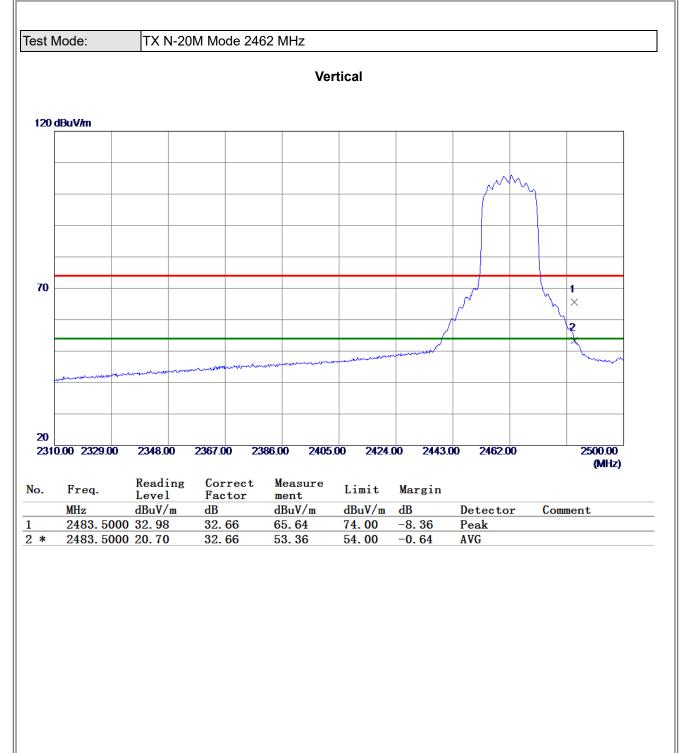






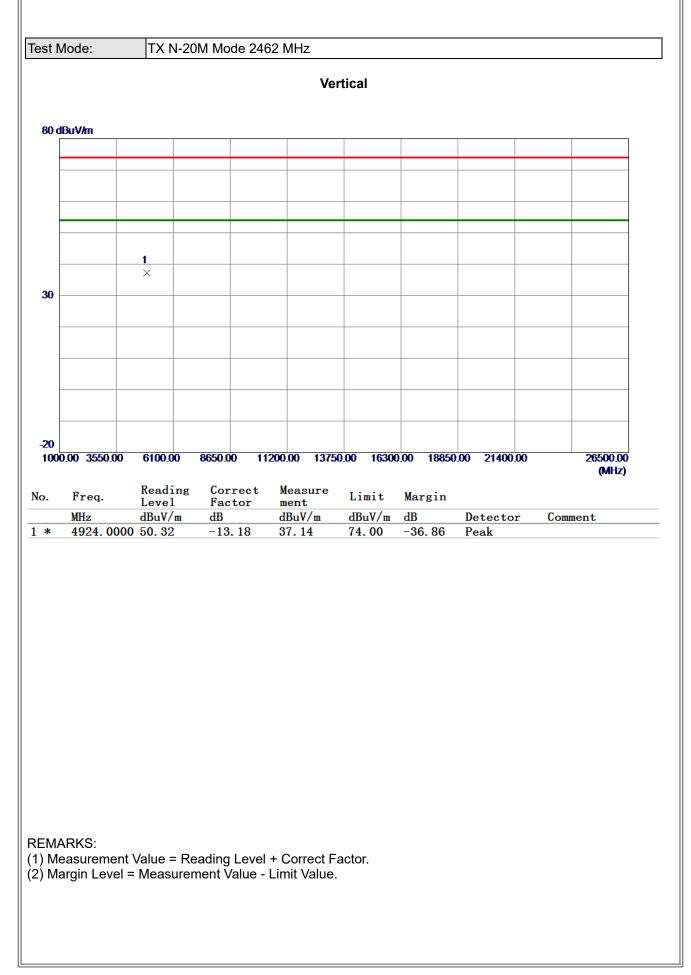




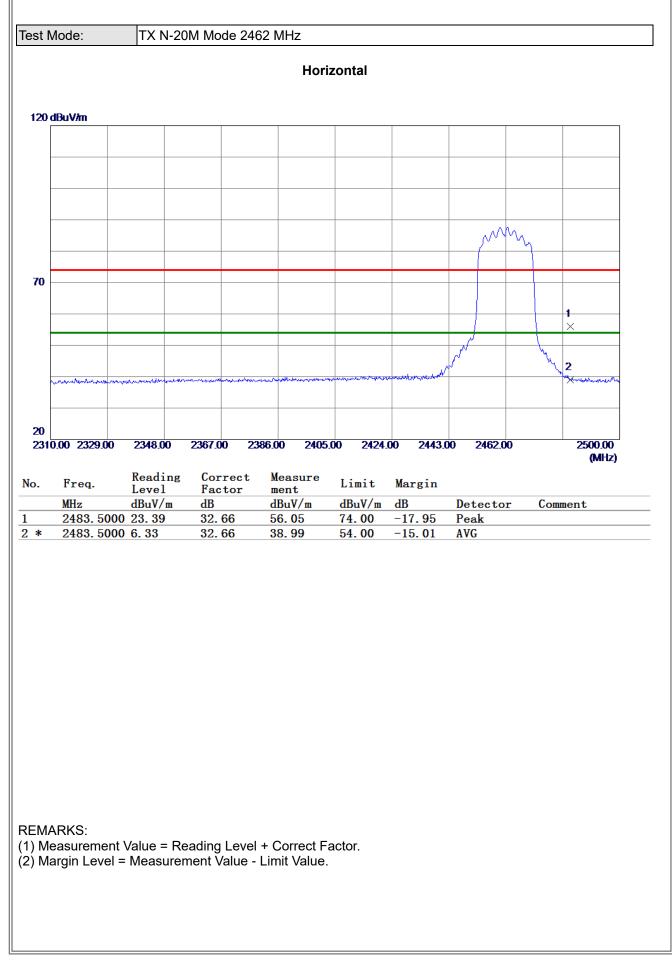


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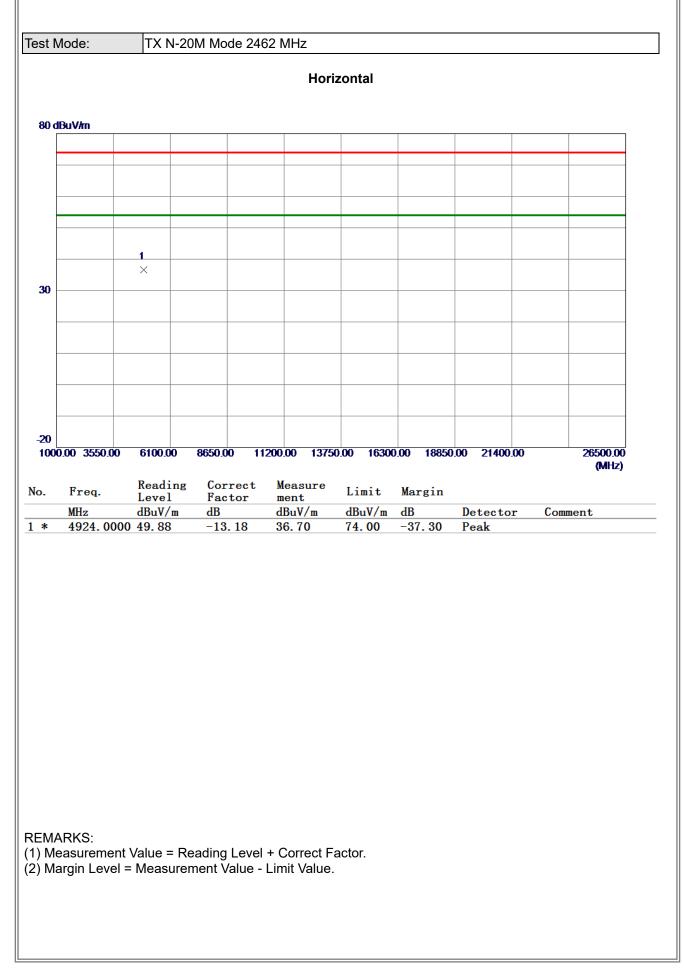




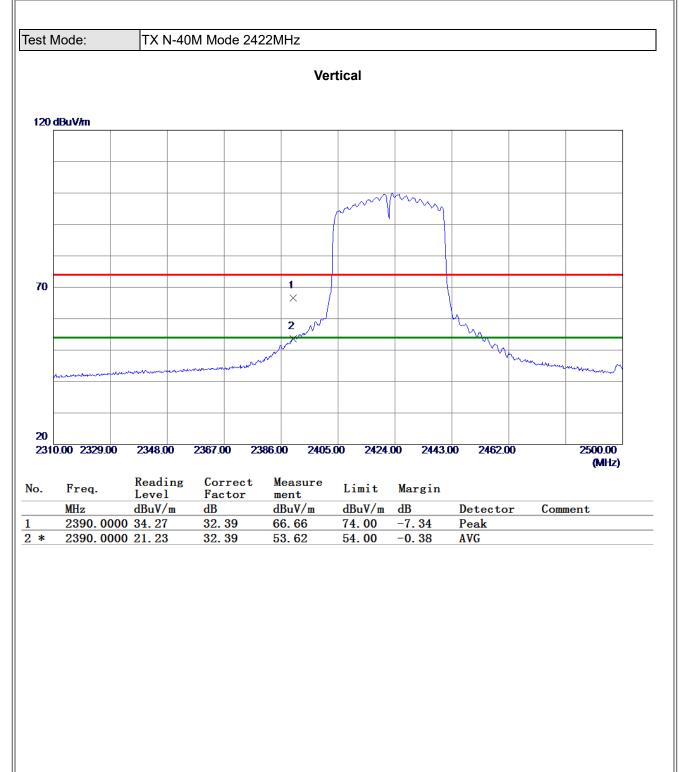








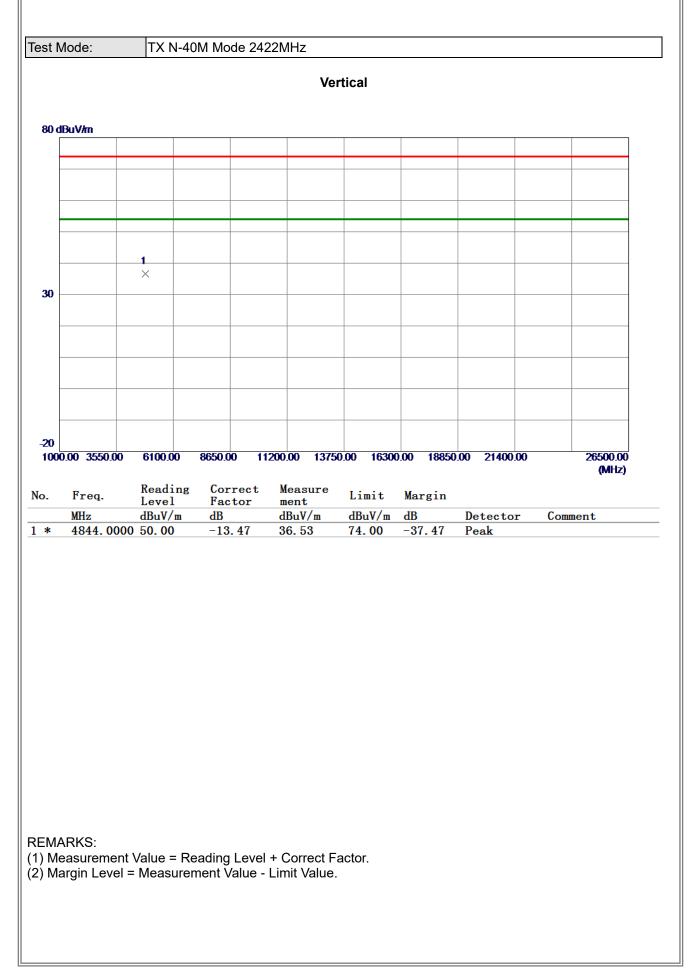




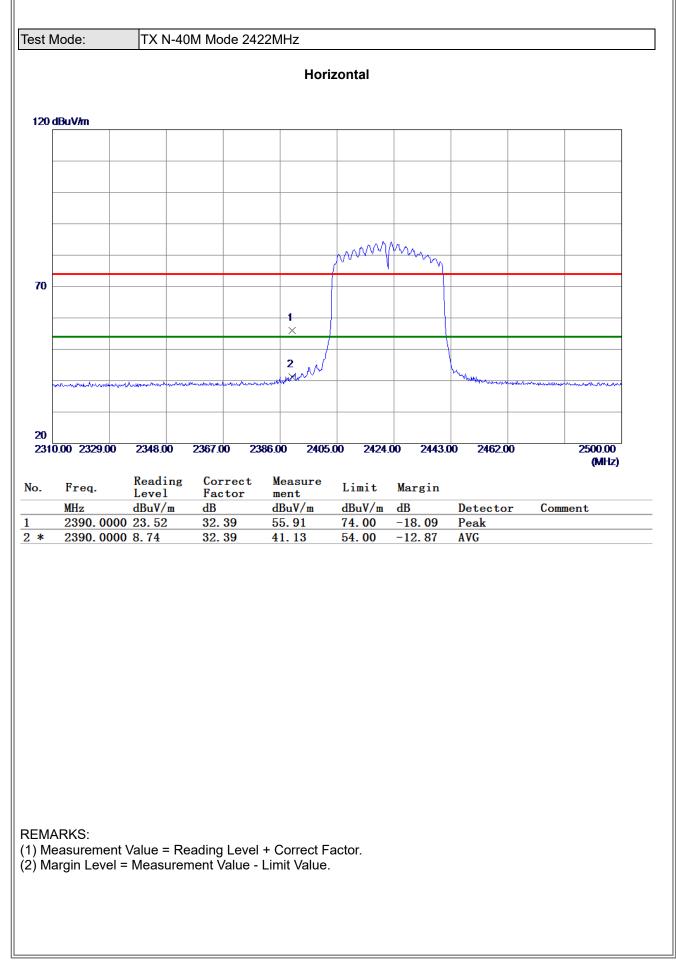
REMARKS:

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

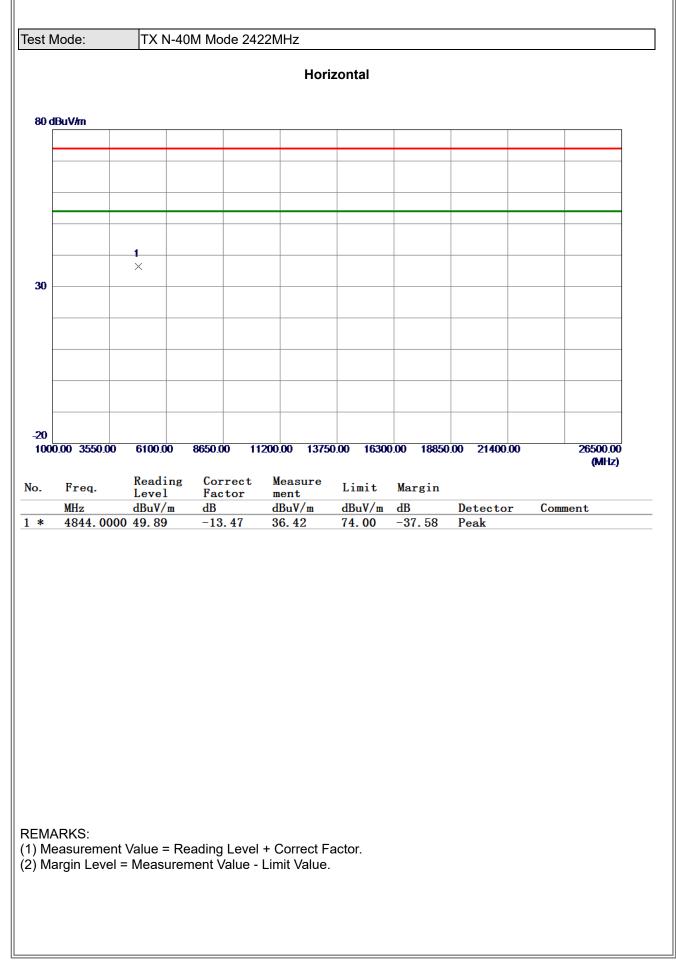




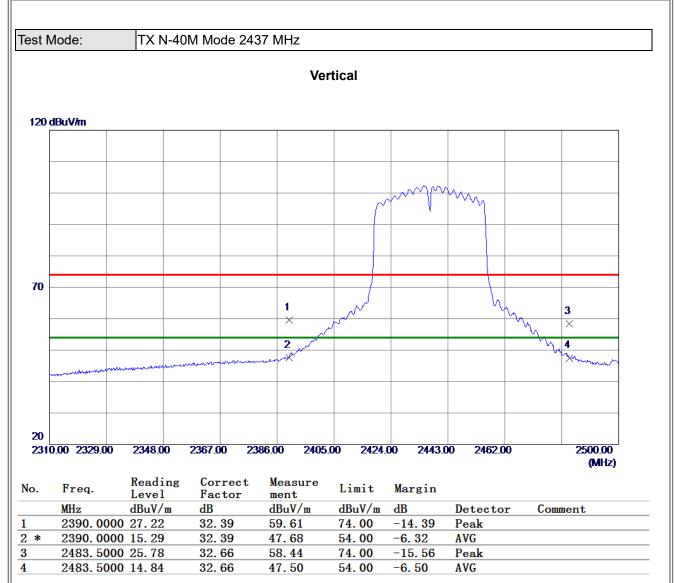










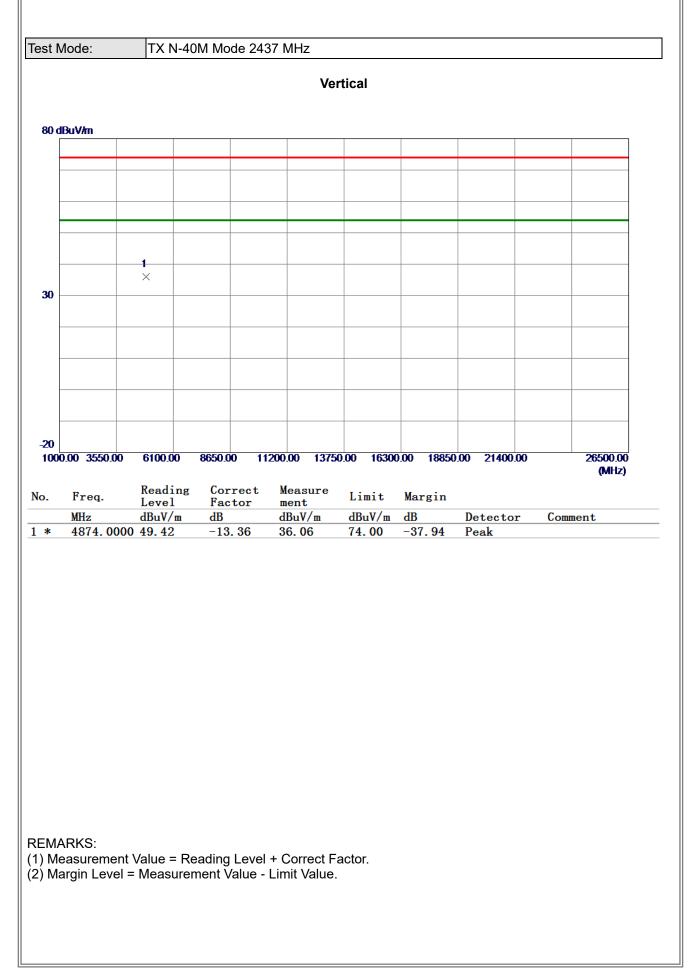


REMARKS:

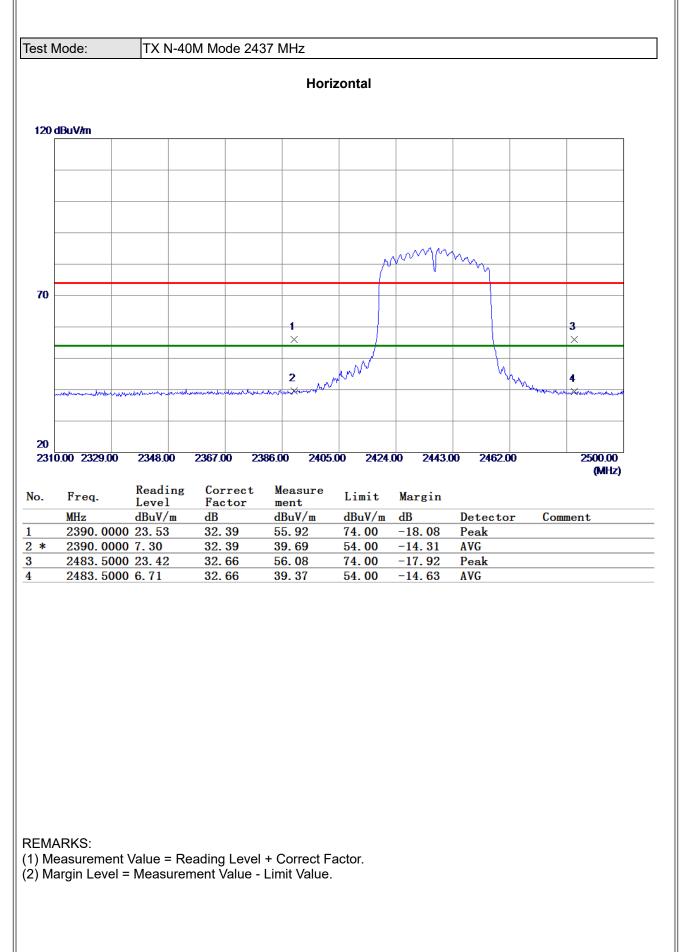
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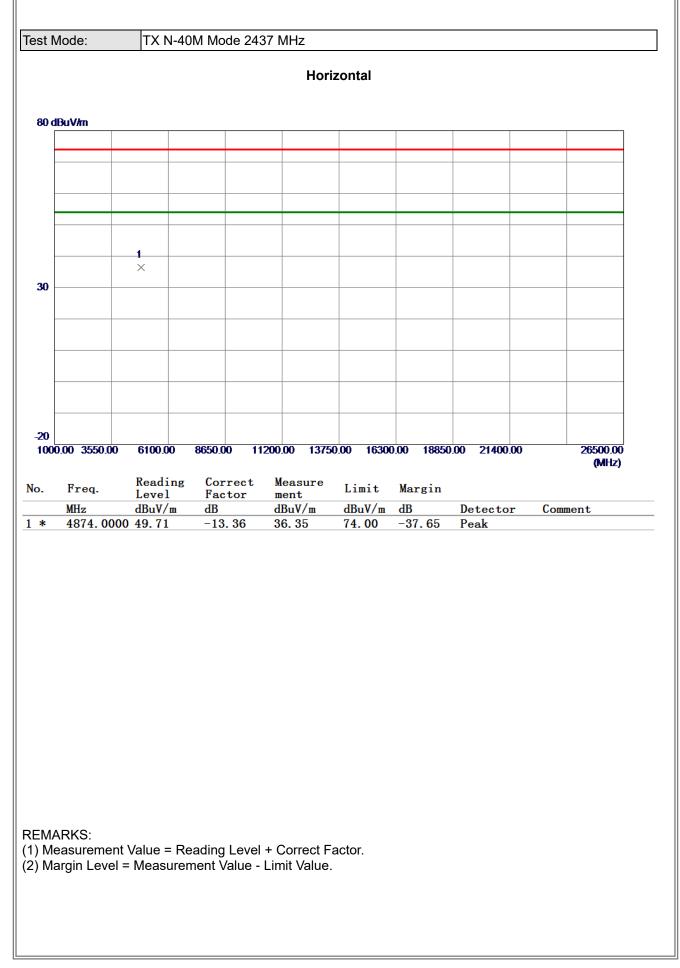




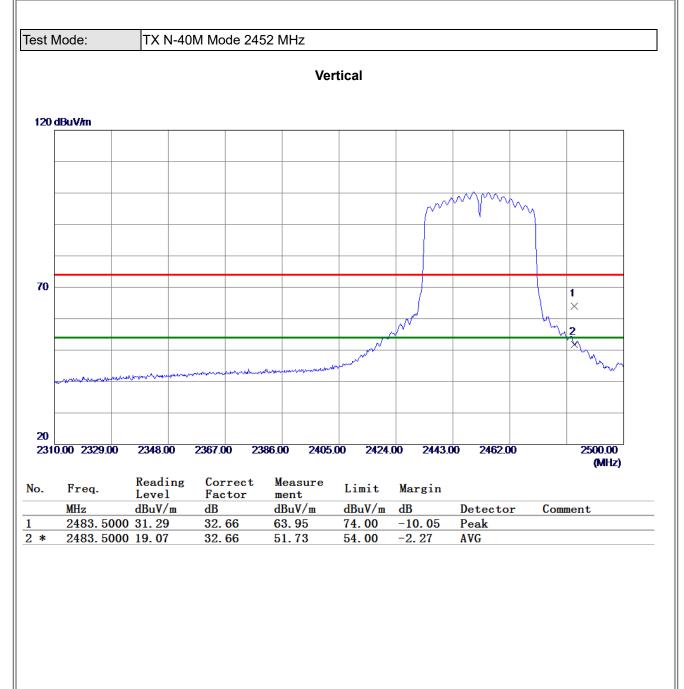










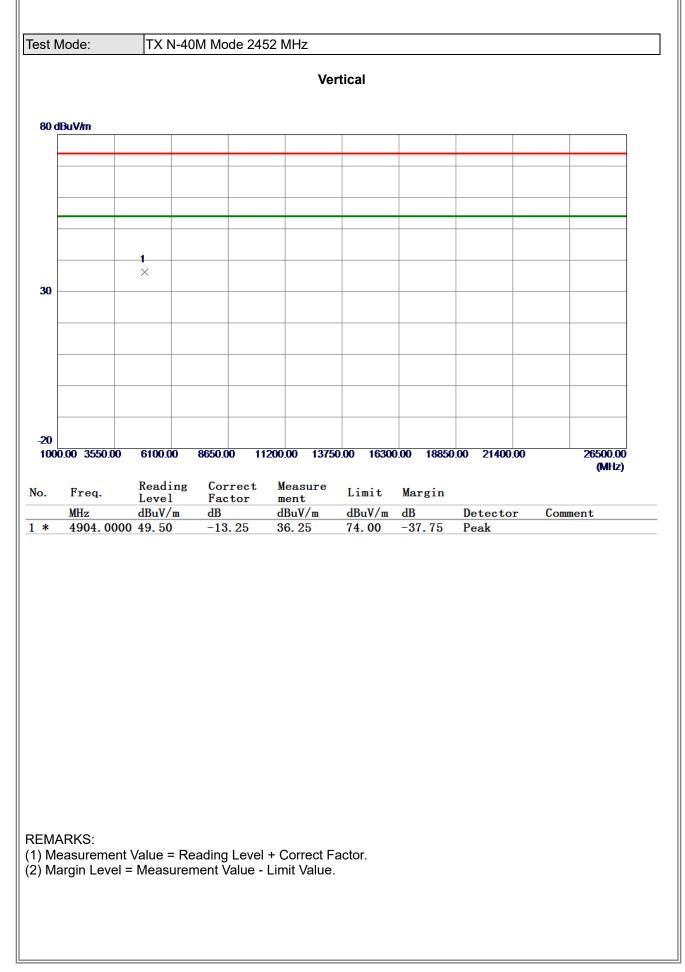


REMARKS:

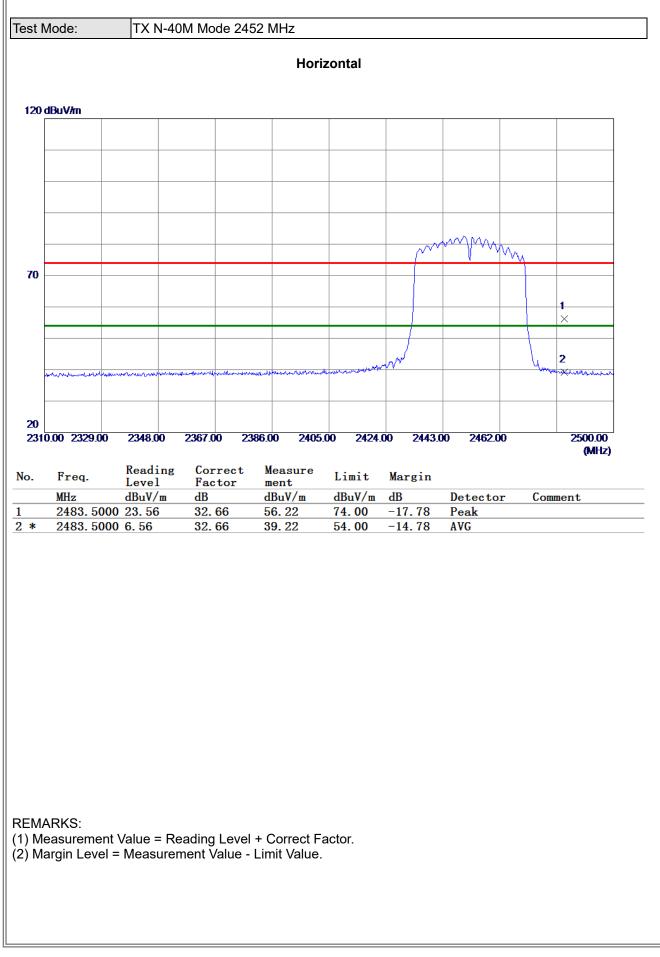
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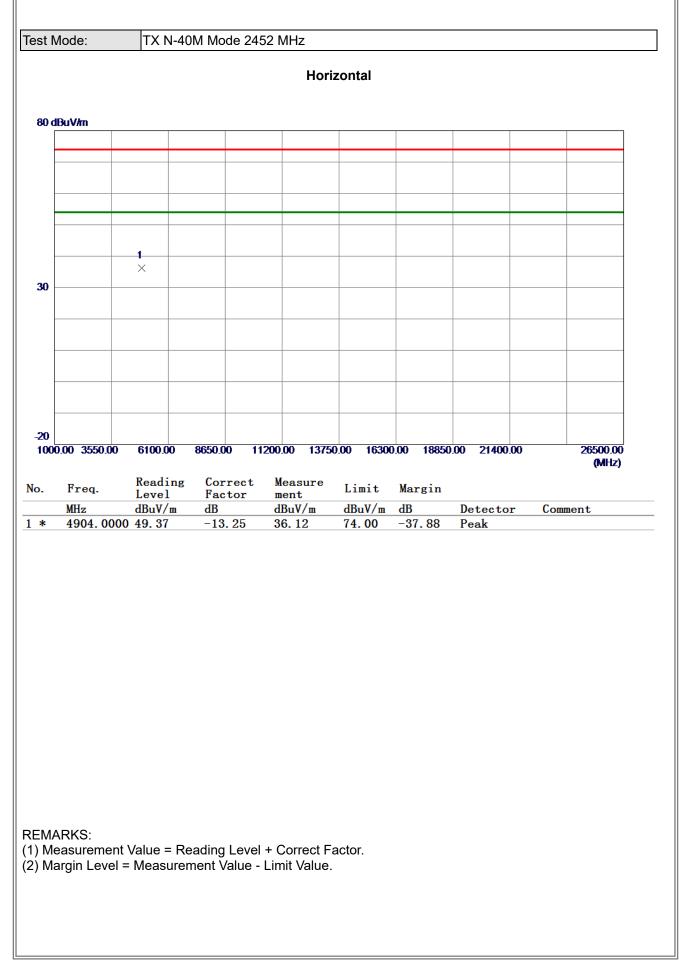










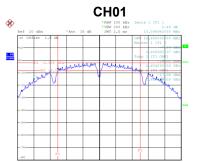


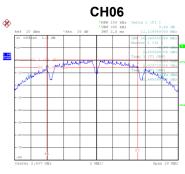


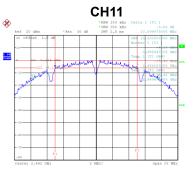
APPENDIX E - BANDWIDTH



CDD						
Test Mode	Test Mode TX B Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result		
01	2412	10.10	500	Complies		
06	2437	11.12	500	Complies		
11	2462	10.10	500	Complies		







Date: 8.MAY.2020 10:31:37

Date: 8.MAY.2020 10:33:29

Date: 8.MAY.2020 10:33:36

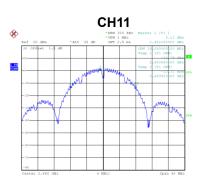


Date: 8.MAY.2020 10:35:34

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.40	Complies
06	2437	24.16	Complies
11	2462	16.08	Complies



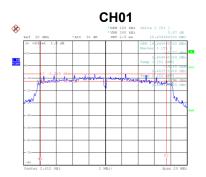


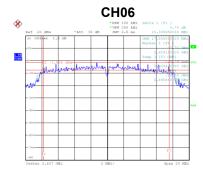


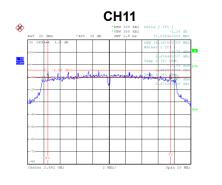
Date: 8.MAY.2020 10:31:43



Test Mode	TX G Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result		
01	2412	15.44	500	Complies		
06	2437	15.40	500	Complies		
11	2462	15.10	500	Complies		







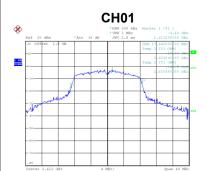
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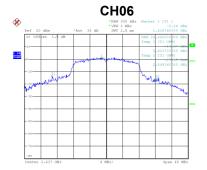
Date: 8.MAY.2020 10:40:19

Date: 8.MAY.2020 10:42:22

Date: 8.MAY.2020 10:42:28

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.44	Complies
06	2437	25.44	Complies
11	2462	17.12	Complies





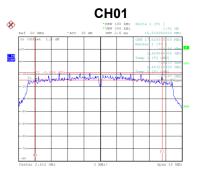


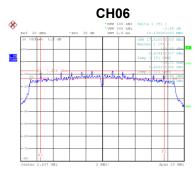
Date: 8.MAY.2020 10:38:40

Date: 8.MAY.2020 10:40:26



Test Mode TX N-20M Mode						
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result		
01	2412	15.52	500	Complies		
06	2437	15.14	500	Complies		
11	2462	15.20	500	Complies		





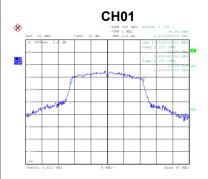


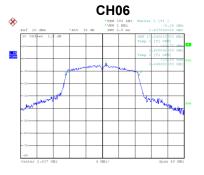
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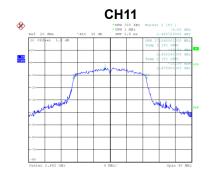
Date: 8.MAY.2020 10:49:37

Date: 8.MAY.2020 10:51:11

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result	
01	2412	17.84	Complies	
06	2437	17.84	Complies	
11	2462	17.84	Complies	







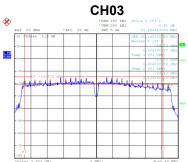
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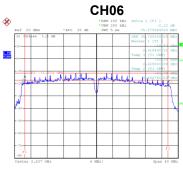
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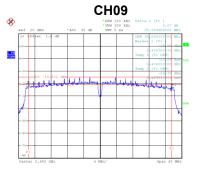
Date: 8.MAY.2020 10:51:18



Test Mode	TX N-40M Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	34.00	500	Complies
06	2437	35.08	500	Complies
09	2452	35.16	500	Complies
		0.100		





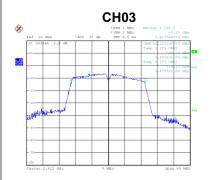


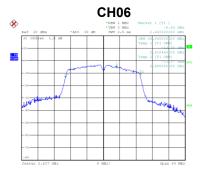
Date: 8.MAY.2020 11:07:17

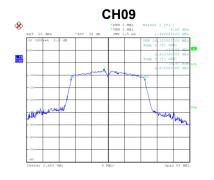
Date: 8.MAY.2020 11:07:23

Date: 8.MAY.2020 10:58:30

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	36.32	Complies
06	2437	36.64	Complies
09	2452	36.32	Complies







Date: 8.MAY.2020 10:58:37

Date: 8.MAY.2020 11:01:31

Date: 8.MAY.2020 11:01:24



APPENDIX F - MAXIMUM OUTPUT POWER



For 1T1R

CDD

Test Mod	te TX B Mode				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.24	30.00	1.0000	Complies
06	2437	25.89	30.00	1.0000	Complies
11	2462	25.40	30.00	1.0000	Complies

Test Mode TX G Mode

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.80	30.00	1.0000	Complies
06	2437	27.34	30.00	1.0000	Complies
11	2462	24.26	30.00	1.0000	Complies



For 2T2R-2

CDD

Test Mode	TX N-20M N	KN-20M Mode_Ant. 1			
Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit	Max. Limit	Result

			(ubiii)	(**)	
01	2412	25.49	30.00	1.0000	Complies
06	2437	25.45	30.00	1.0000	Complies
11	2462	25.69	30.00	1.0000	Complies

Test Mode TX N-20M Mode_Ant. 2

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.11	30.00	1.0000	Complies
06	2437	24.03	30.00	1.0000	Complies
11	2462	24.07	30.00	1.0000	Complies

Test Mode TX N-20M Mode_Total

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.86	30.00	1.0000	Complies
06	2437	27.81	30.00	1.0000	Complies
11	2462	27.97	30.00	1.0000	Complies



Test Mode	TX N-40M Mode_Ant. 1

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.94	30.00	1.0000	Complies
06	2437	25.28	30.00	1.0000	Complies
09	2452	23.85	30.00	1.0000	Complies

Test Mode TX N-40M Mode_Ant. 2

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.24	30.00	1.0000	Complies
06	2437	24.12	30.00	1.0000	Complies
09	2452	22.45	30.00	1.0000	Complies

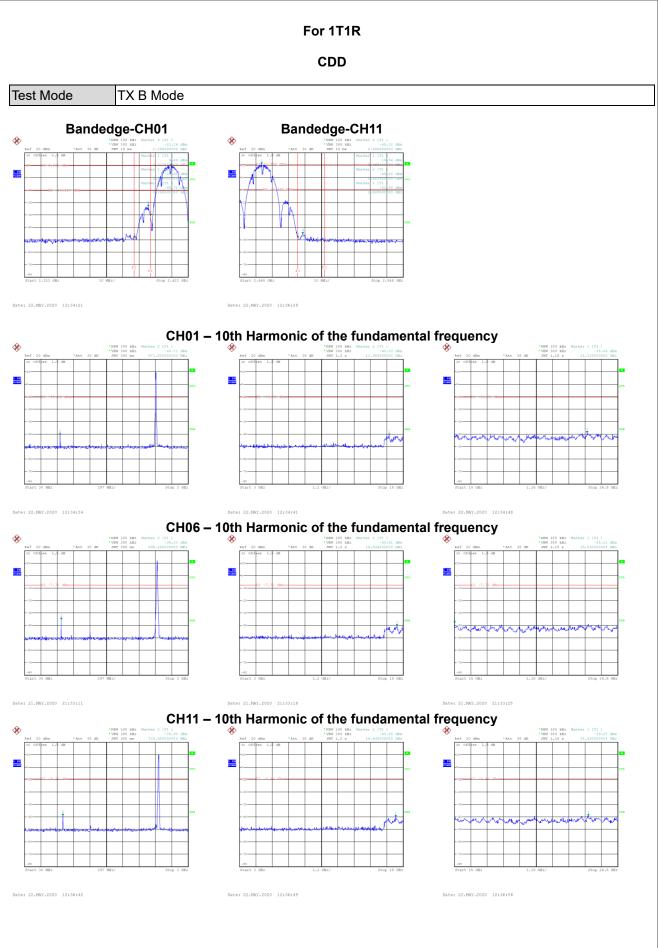
Test Mode TX N-40M Mode_Total

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	26.61	30.00	1.0000	Complies
06	2437	27.75	30.00	1.0000	Complies
09	2452	26.22	30.00	1.0000	Complies

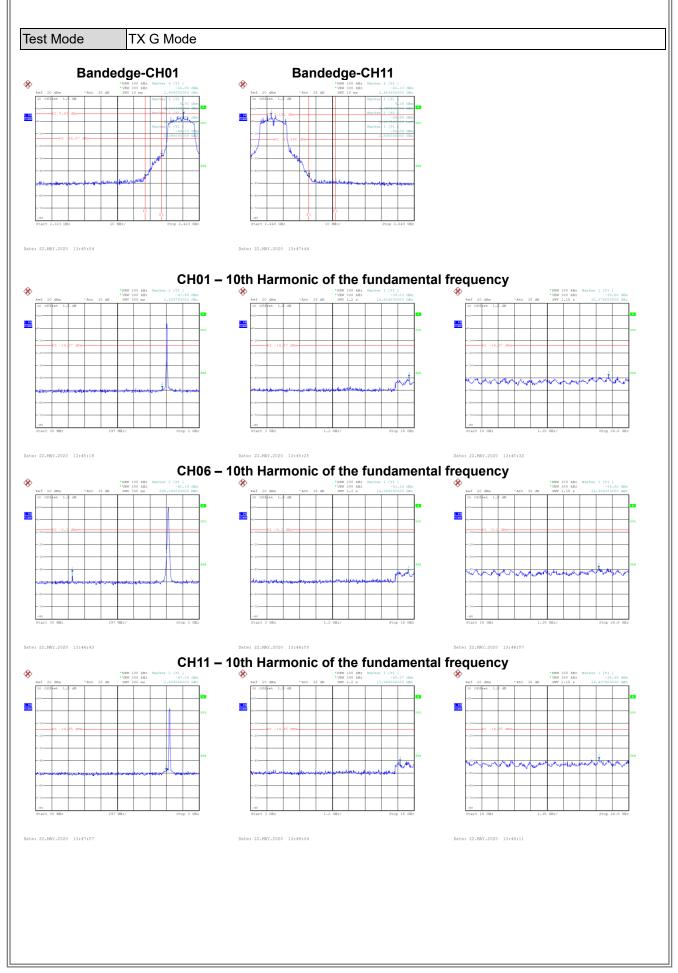


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

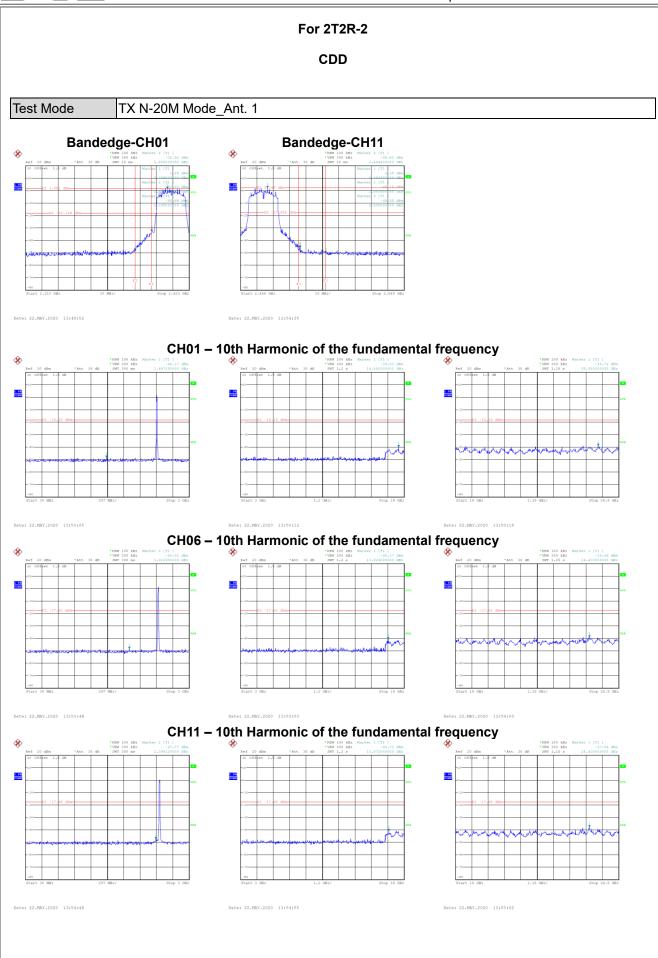




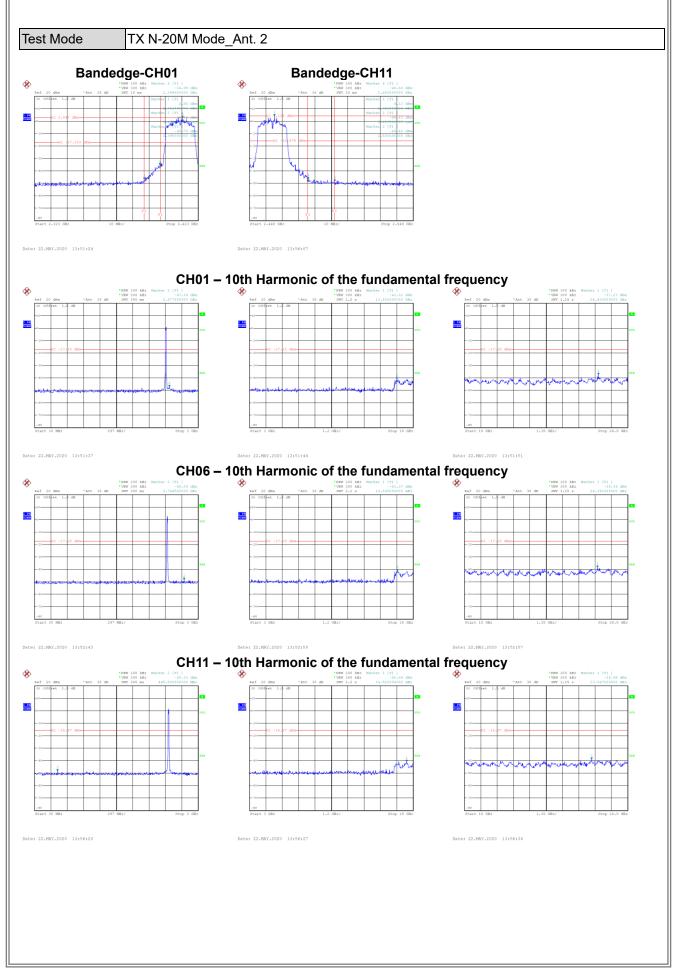




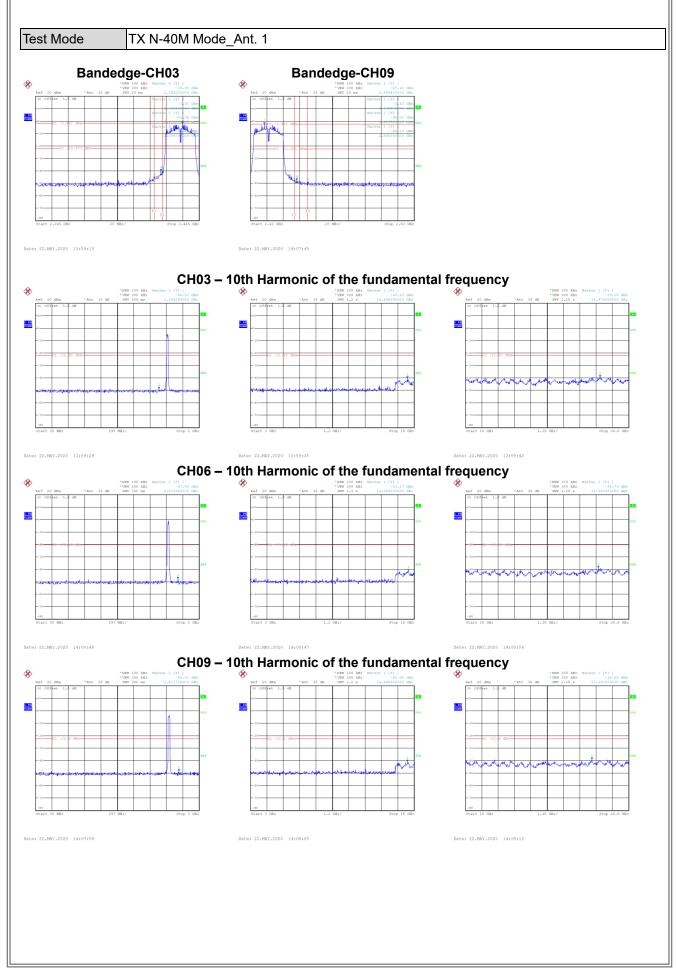




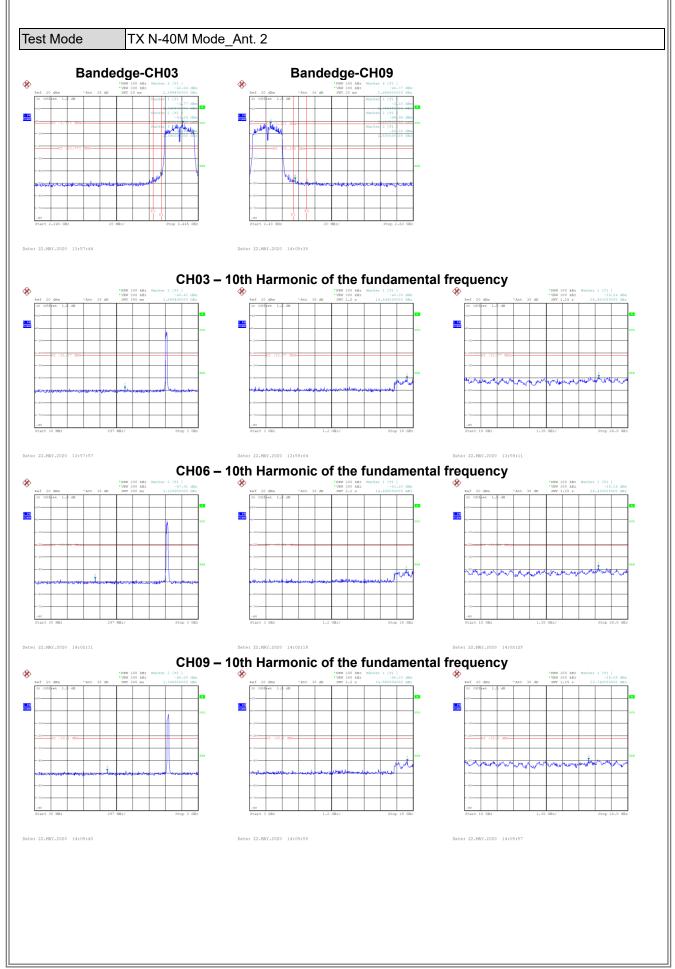














APPENDIX H - POWER SPECTRAL DENSITY



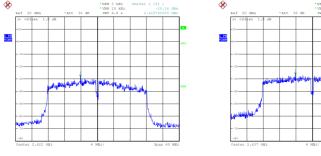
			Report No.: BTL-F	CCP-1-2004H020
		For 1T1R		
		CDD		
Test Mode	TX B Mode			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.09	8	Complies
06	2437	-5.06	8	Complies
11	2462	-15.42	8	Complies
1 1				200 3 MB 3 Macher 1 (T1.) 201 3 MB213-42 dim 201
Test Mode Channel	TX G Mode Frequency	Power Spectral Density	Max. Limit	Result
01	(MHz) 2412	(dBm/3kHz) -21.44	(dBm/3kHz) 8	Complies
06	2437	-18.45	8	Complies
11	2462	-21.63	8	Complies
*** ***	она	Pressure Pressure <td< th=""><th>*</th><th></th></td<>	*	

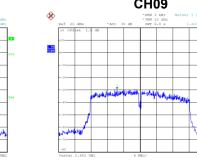


		For 2T2R		
		CDD		
Test Mode	TX N-20M Mode_A	nt. 1		
	Frequency	Power Spectral Density	Max. Limit	Desself
Channel	(MHz)	(dBm/3kHz)	(dBm/3kHz)	Result
01	2412	-25.24	5.99	Complies
06	2437	-24.15	5.99	Complies
11	2462	-23.69	5.99	Complies
ж С	H01		⊗	H11
Part 20 cmm PARS 32 cm 10 010 part 1.4 00 11 11 11 12 11 11 13 11 11 14 11 11 15 000 pm 11 14 11 11 15 000 pm 11 16 11 11 17 000 pm 11 18 11 11 19 11 11 10 11 11 11 11 11 12 11 11 13 11 11 14 11 11 15 11 11 14 11 11 15 11 11 16 11 11 16 11 11 17 11 11 18 11 11 19 11		Ref 20 dBm *Att 30 dB DWT 2.0 # 2.4775000 GBz	Port 2.0 (Bits) * Acts, 1.3 (Bits) 10 0.07 (Part, 1.4) (Bits) (Bits) 10 0.07 (Part, 1.4) (Bits) (Bits) (Bits) 10 0.07 (Part, 1.4) (Bits) (Bits) (Bits) (Bits) 10 0.07 (Part, 1.4) (Bits) (Bits)	2 - 2 - 3 - 40 dbs 2 - 2 - 4
Test Mode	TX N-20M Mode_A		Date: 8.447.2020 10152101	
Test Mode Channel	TX N-20M Mode_A	nt. 2 Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
Test Mode Channel 01	TX N-20M Mode_A	nt. 2 Power Spectral Density (dBm/3kHz) -21.50	Max. Limit (dBm/3kHz) 5.99	Complies
Test Mode Channel 01 06	TX N-20M Mode_A	nt. 2 Power Spectral Density (dBm/3kHz) -21.50 -23.47	Max. Limit (dBm/3kHz) 5.99 5.99	Complies Complies
Test Mode Channel 01 06 11	TX N-20M Mode_A	nt. 2 Power Spectral Density (dBm/3kHz) -21.50 -23.47 -19.51	Max. Limit (dBm/3kHz) 5.99 5.99 5.99 5.99	Complies Complies Complies
Test Mode Channel 01 06 11 C ************************************	TX N-20M Mode_Ai Frequency (MHz) 2412 2437 2462	nt. 2 Power Spectral Density (dBm/3kHz) -21.50 -23.47 -19.51	Max. Limit (dBm/3kHz) 5.99 5.99 5.99 5.99	Complies Complies
Test Mode Channel 01 06 11 C C C C C C C C C C C C C	TX N-20M Mode_A Frequency (MHz) 2412 2437 2462		Max. Limit (dBm/3kHz) 5.99 5.99 5.99 5.99	Complies Complies
Test Mode Channel 01 06 11 C C C C C C C C C C C C C	TX N-20M Mode_A Frequency (MHz) 2412 2437 2462		Max. Limit (dBm/3kHz) 5.99 5.99 5.99 5.99	Complies Complies
Test Mode Channel 01 06 11 C C 01 06 11 C C C C C C C C C C C C C	TX N-20M Mode_Al Frequency (MHz) 2412 2437 2462	nt. 2 Power Spectral Density (dBm/3kHz) -21.50 -23.47 -19.51 CH06 100 100 100 100 100 100 100 1	Max. Limit (dBm/3kHz) 5.99 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 </td <td>Complies Complies Complies</td>	Complies Complies Complies
Test Mode Channel 01 06 11 C C C C C D C C C C C C C C C C C C C	TX N-20M Mode_A	nt. 2 Power Spectral Density (dBm/3kHz) -21.50 -23.47 -19.51 CHO6 000000000000000000000000000000000000	Max. Limit (dBm/3kHz) 5.99 5.99 5.99 C C C C C C C C C C C C C C C C C C C	Complies Complies Complies



est Mode	TX N-40M Mode_Ar	nt. 1		
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-31.33	5.99	Complies
06	2437	-27.64	5.99	Complies
09	2452	-31.07	5.99	Complies
C ALL 0 400 ALL 0 40	Rz/ Bpan do Max	Perf_20 dbm *Att 30 db Ferr V dat 2.44048000 Gbm 10 0ffjret 1.8 db 10 10 10	ALL 31 dB AL 31 dB AL 31 dB	
est Mode	TX N-40M Mode_Ar	nt. 2		
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-28.16	5.99	Complies
06	2437	-26.21	5.99	Complies
09	2452	-29.29	5.99	Complies
c	H03	CH06	<u>&</u>	H09





Date: 8.MAY.2020 11:06:44

Test Mode T

Date: 8.MAY.2020 10:57:50

TX N-40M Mode_Total

Date: 8.MAY.2020 11:03:48

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-26.45	5.99	Complies
06	2437	-23.86	5.99	Complies
09	2452	-27.08	5.99	Complies

End of Test Report