



FCC Radio Partial Test Report FCC ID: WS2-WG7833B0

This report concerns (check one): \square Original Grant \square Class I Change \boxtimes Class II Cha	This report concerns	(check one):	Original Grant	Class	I Change	⊠Class II	Chang
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: 1806T107A Project No. Equipment : Wireless module Test Model : WG7833-B0

Series Model

Applicant : Jorjin Technologies INC.

: 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Address

Taipei City, 22161, TAIWAN, R.O.C.

Date of Receipt : Sep. 04, 2018

Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018

: Oct. 11, 2018 Issued Date : BTL Inc. Tested by

Testing Engineer

Technical Manager

Authorized Signatory

BTL INC

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City, Taiwan (R.O.C.) FAX: +886-2-2657-3331

TEL:+886-2-2657-3299



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Declaration

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

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

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

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO Guide 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, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements 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.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 11, 2018

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1. CERTIFICATION

Equipment : Wireless module

Brand Name: Jorjin

Test Model: WG7833-B0

Series Model: N/A

Applicant : Jorjin Technologies INC. Manufacturer: Jorjin Technologies INC.

Address : 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161,

TAIWAN, R.O.C.

Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018

Test Sample: Engineering Sample

Standard(s): FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1806T107A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the WIFI 2.4GHz part.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)						
Standard(s) Section Test Item Judgment Rem						
15.207	Conducted Emission	PASS				
15.247(d) 15.209	Radiated emission	PASS				
15.203	Antenna Requirement	PASS				

Note:

- (1)" N/A" denotes test is not applicable in this test report
- (2) Accord to the EUT(Report Number: T150417W02-RP2 and model: WG7833-B0, WG7833BEM2A, WG7833BEM2B) has been certificated, Conducted and Radiated emission were criticized and reconfirmed in this report.
- (3) Compared with the previous report (T150417W02-RP2), added one PCB type antennas.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-14742; FCC RN:674415; FCC DN:TW0659) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5) No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB15: (VCCI RN: G-20031; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5) No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement y ± U, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.68

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15	CISPR	9kHz ~ 150kHz	2.82
(3m)	CISPR	150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		30MHz ~ 200MHz	V	4.20
CB15	CISPR	30MHz ~ 200MHz	Н	3.64
(3m)	CISPR	200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	Н	3.90

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		1GHz ~ 6GHz	V	4.46
CB15	CISPR	1GHz ~ 6GHz	Н	4.40
(3m)	CISER	6GHz ~ 18GHz	V	3.88
		6GHz ~ 18GHz	Н	4.00

	Test Site	Method	Measurement Frequency Range	U,(dB)
Γ	CB15	CISPR	18 ~ 26.5 GHz	4.62
	(1m)	CISPR	26.5 ~ 40 GHz	5.12

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless module
Brand Name	Jorjin
Test Model	WG7833-B0
Series Model	N/A
Model Difference	N/A
Power Source	Powered from host device via USB Cable
Power Rating	DC 5V
Products Covered	N/A
Operation Frequency	2412~2472 MHz
Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 150 Mbps

Note:

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

2. Channel List:

Charlier Elot.							
CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel Frequency (MHz) Channel Frequency (MHz) Fr							
01	2412	05	2432	09	2452		
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447				

3. Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector		Gain (dBi)	
AIII.	Dianu	Model	Type	Connector	2.4 GHz	Band 1	Band 4
1	Liteon	Locix	PCB	N/A	3.83	4.10	2.27

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description		
Mode 1	TX B Mode / CH01, CH06, CH11		
Mode 2	TX G Mode / CH01, CH06, CH11		
Mode 3	TX N-20MHZ Mode / CH01, CH06, CH11		
Mode 4	TX N-40MHZ Mode / CH03, CH06, CH09		
Mode 5	TX N-40MHZ Mode / CH09		

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test			
Final Test Mode Description			
Mode 5	TX N-40MHZ Mode / CH09		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	TX B Mode / CH01, CH06, CH11		
Mode 2	TX G Mode / CH01, CH06, CH11		
Mode 3	TX N-20MHZ Mode / CH01, CH06, CH11		
Mode 4	TX N-40MHZ Mode / CH03, CH06, CH09		

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)

For radiated emission tests, the highest output powers were set for final test.

(3) For radiated emission below 1GHz test, the IEEE 802.11n (40 MHz) is found to be the worst case and recorded.

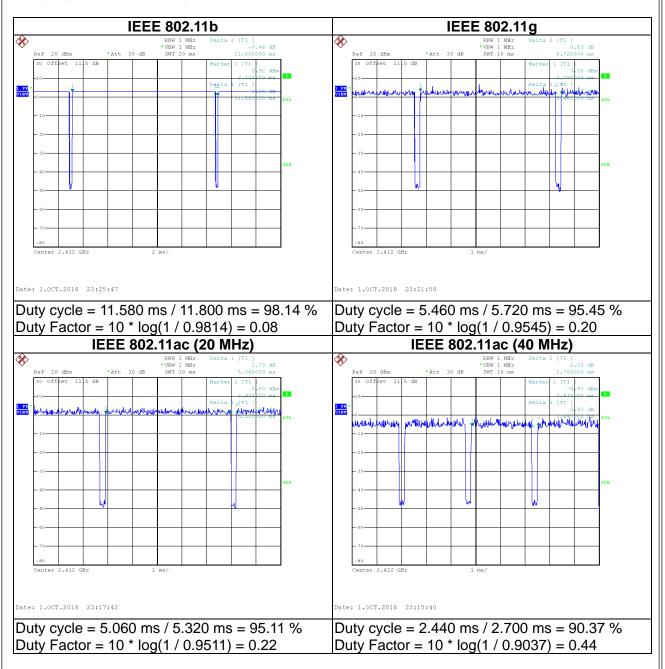
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3.3 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.



Note:

For IEEE 802.11g and IEEE 802.11n (20 MHz):

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 (40 MHz):

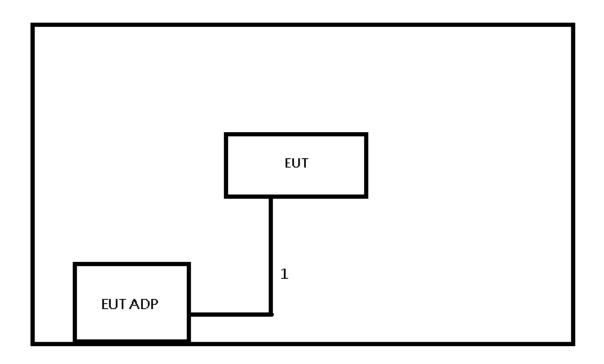
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	Power Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Francisco (MIII-)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	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 limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

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

4.1.2 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.

4.1.3 DEVIATION FROM TEST STANDARD

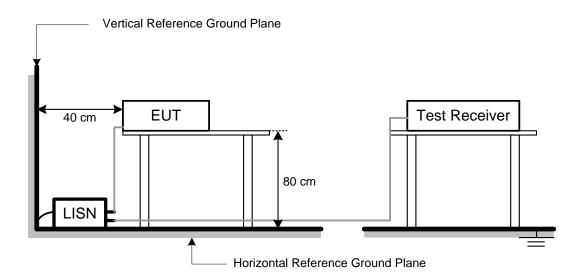
No deviation

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4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 45% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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 (9KHz-1000MHz)

Frequency	Field Strength Measurement Dis	
(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	
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 m)		
Frequency (Miriz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

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

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

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector	
Start ~ Stop Frequency	90KHz~110KHz for QP detector	
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector	
Start ~ Stop Frequency	490KHz~30MHz for QP detector	
Start ~ Stop Frequency	30MHz~1000MHz for QP detector	

4.2.2 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 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- 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 m above the ground at a 3 m 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 1GHz.
- 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 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

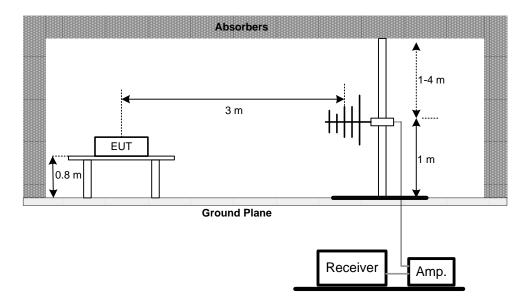
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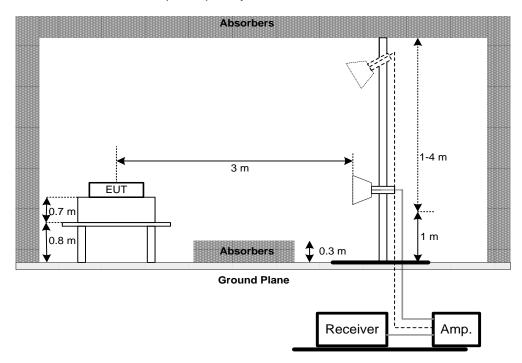


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



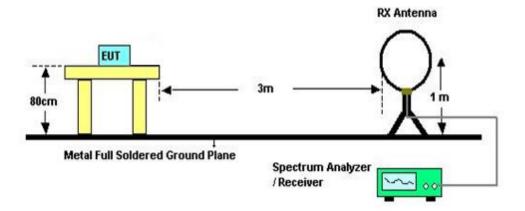
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(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B.

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Appendix C.

4.2.9 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.

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5. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Mar. 08, 2019		
2	Test Cable	EMCI	EMCCFD300-BM-B MR-6000	170715	Aug. 07, 2019		
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2018		
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A		

	Radiated Emission Measurement												
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until								
1	Preamplifier	EMCI	012645B	980267	Feb. 27, 2019								
2	Preamplifier	EMCI	EMC02325	980217	Dec. 27, 2018								
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 13, 2019								
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 03, 2019								
5	Test Cable EMCI		EMC104-SM-S M-800	150207	Jan. 03, 2019								
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 03, 2019								
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019								
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 21, 2019								
9	Loop Ant	EMCI	LPA600	274	May 03, 2019								
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 27, 2019								
11	Horn Ant Schwarzbeck		BBHA 9170	187	Dec. 05, 2018								
12	2 Trilog-Broadband Schwarzbeck		VULB 9168	9168-548	Jan. 15, 2019								
13	3 5dB Attenuator EMCI		EMCI-N-6-05	AT-N0623	Jan. 15, 2019								

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

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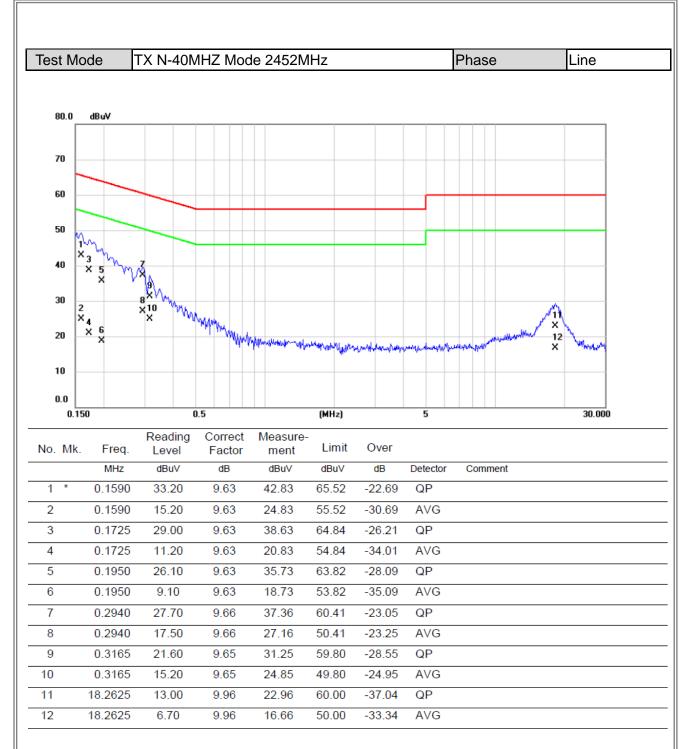


APPENDIX	A –	CONDU	CTED	EMISSION
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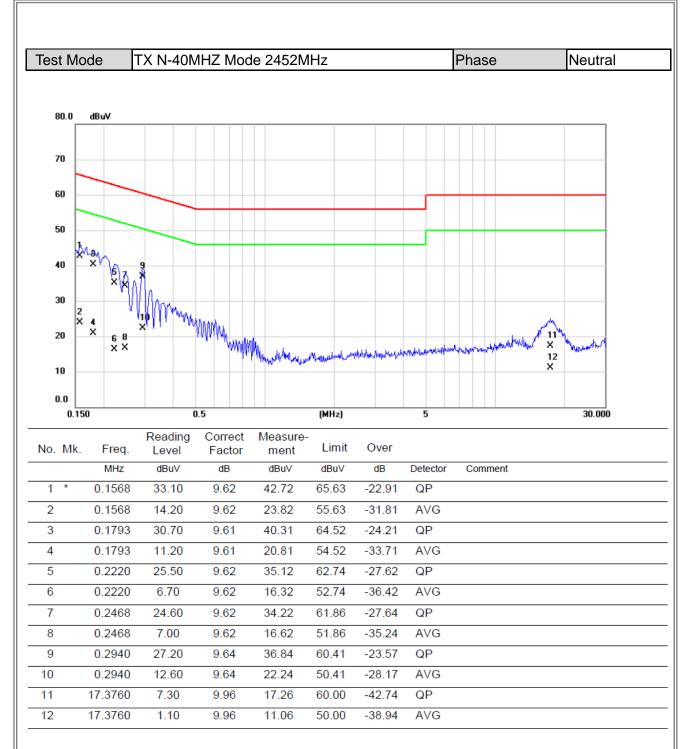












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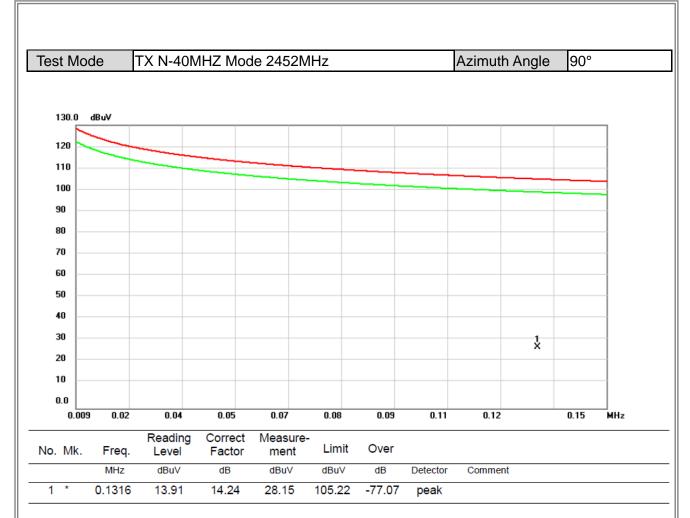


APPENDIX B- RADIATED EMISSION (9KHZ to 30MHZ)

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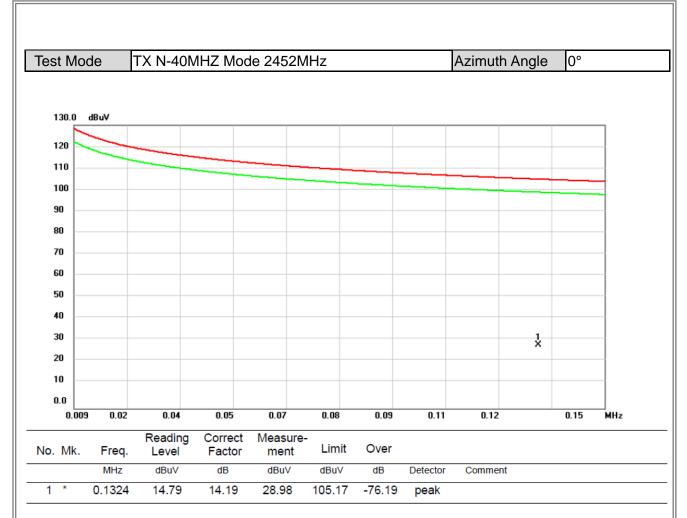






















APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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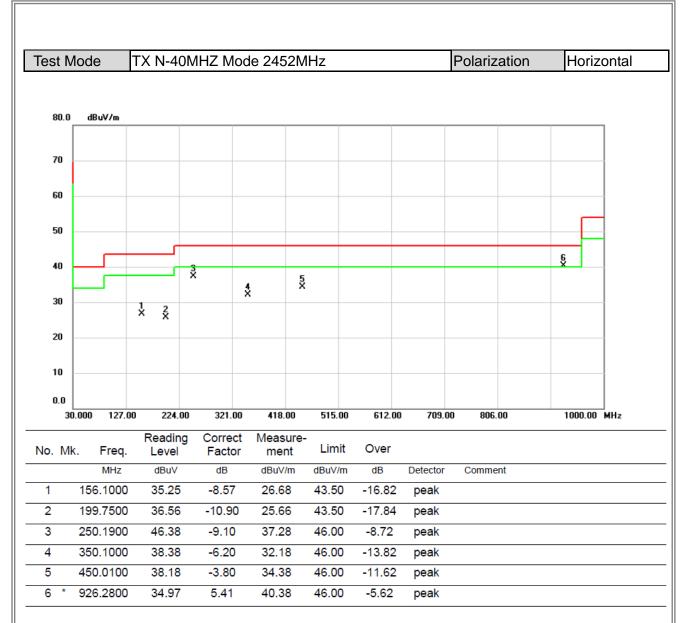
















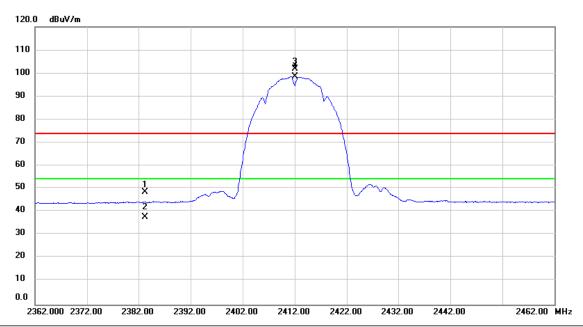
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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Test Mode TX B MODE _2412 MHz Polarization Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.224	17.67	30.82	48.49	74.00	-25.51	peak	
2		2383.224	6.82	30.82	37.64	54.00	-16.36	AVG	
3	Х	2412.000	70.79	30.92	101.71	74.00	27.71	peak	No Limit
4	*	2412.000	67.55	30.92	98.47	54.00	44.47	AVG	No Limit

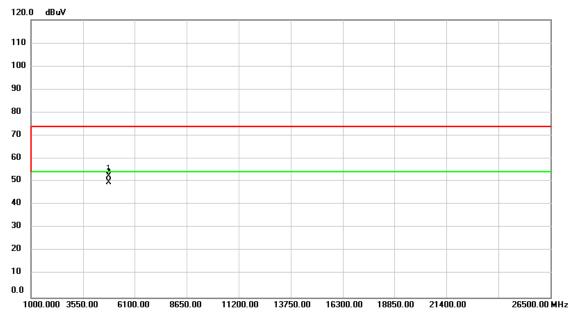
Report No.: BTL-FCCP-3-1806T107A

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TX B MODE _2412 MHz Test Mode Polarization Vertical



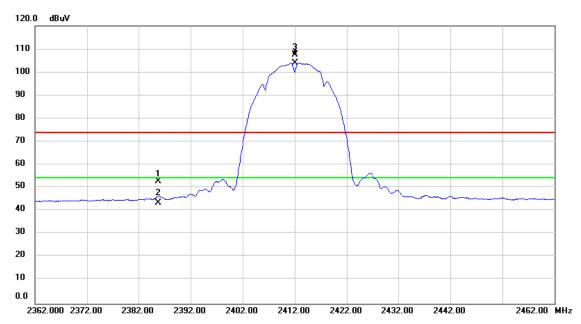
1	۷o.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
	1		4824.000	63.91	-11.48	52.43	74.00	-21.57	peak	
	2	*	4824.000	61.11	-11.48	49.63	54.00	-4.37	AVG	

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX B MODE _2412 MHz Polarization Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		2385.828	21.83	30.83	52.66	74.00	-21.34	peak	
2		2385.828	12.61	30.83	43.44	54.00	-10.56	AVG	
3	Х	2412.000	76.56	30.92	107.48	74.00	33.48	peak	No Limit
4	*	2412.000	73.00	30.92	103.92	54.00	49.92	AVG	No Limit

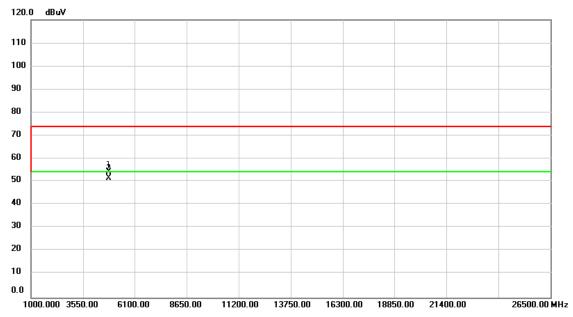
Report No.: BTL-FCCP-3-1806T107A

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Test Mode TX B MODE _2412 MHz Polarization Horizontal



No	. Mk	k. Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		4824.000	65.56	-11.48	54.08	74.00	-19.92	peak	
2	*	4824.000	63.01	-11.48	51.53	54.00	-2.47	AVG	

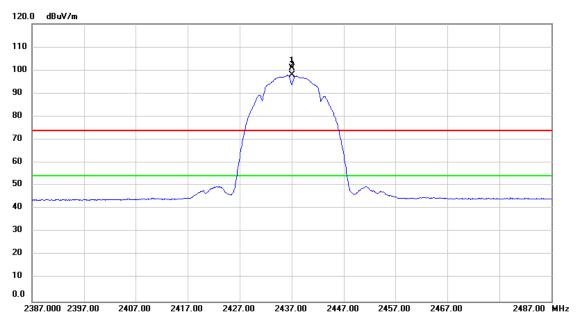
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Test Mode TX B MODE _2437 MHz Polarization Vertical



N	0.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	2437.000	70.01	31.01	101.02	74.00	27.02	peak	No Limit
	2	*	2437.000	66.83	31.01	97.84	54.00	43.84	AVG	No Limit

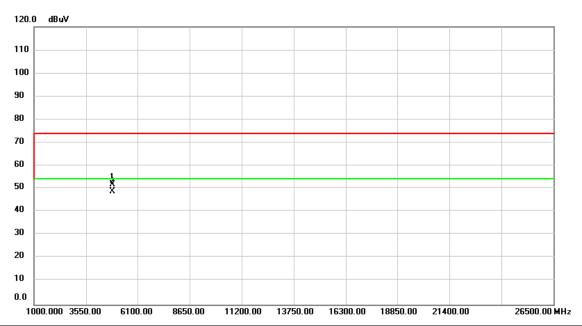
Report No.: BTL-FCCP-3-1806T107A

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Test Mode TX B MODE _2437 MHz Polarization Vertical



Ī	No.	Μŀ	k. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			N	1Hz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
_	1		4874.	.000	63.18	-11.42	51.76	74.00	-22.24	peak	
_	2	*	4874.	.000	60.22	-11.42	48.80	54.00	-5.20	AVG	

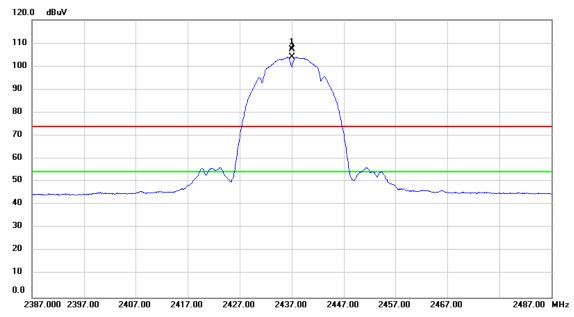
Report No.: BTL-FCCP-3-1806T107A

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TX B MODE _2437 MHz Horizontal Test Mode Polarization



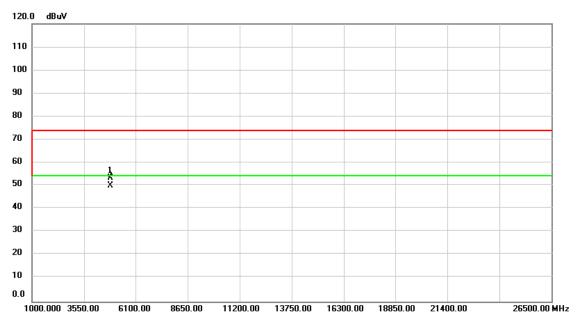
N	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
	1	Х	2437.000	76.30	31.01	107.31	74.00	33.31	peak	No Limit
	2	*	2437.000	72.86	31.01	103.87	54.00	49.87	AVG	No Limit

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX B MODE _2437 MHz Polarization Horizontal



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		4874.000	64.59	-11.42	53.17	74.00	-20.83	peak	
2	*	4874.000	61.35	-11.42	49.93	54.00	-4.07	AVG	

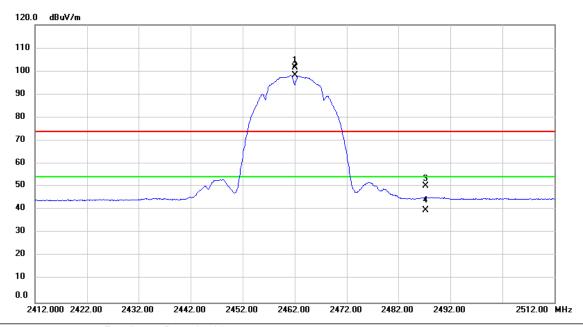
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Test Mode TX B MODE _2462 MHz Polarization Vertical



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1	Х	2462.000	70.33	31.09	101.42	74.00	27.42	peak	No Limit	
	2	*	2462.000	67.08	31.09	98.17	54.00	44.17	AVG	No Limit	
-	3		2487.328	19.12	31.18	50.30	74.00	-23.70	peak		
-	4		2487.328	8.59	31.18	39.77	54.00	-14.23	AVG		
-											

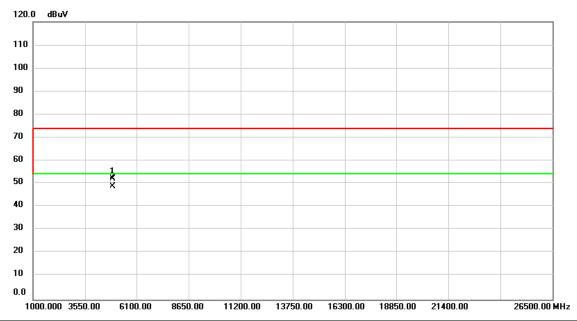
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Test Mode TX B MODE _2462 MHz Polarization Vertical



	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		
_			MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector	Comment
_	1		4924.000	63.36	-11.37	51.99	74.00	-22.01	peak	
_	2	*	4924.000	60.12	-11.37	48.75	54.00	-5.25	AVG	

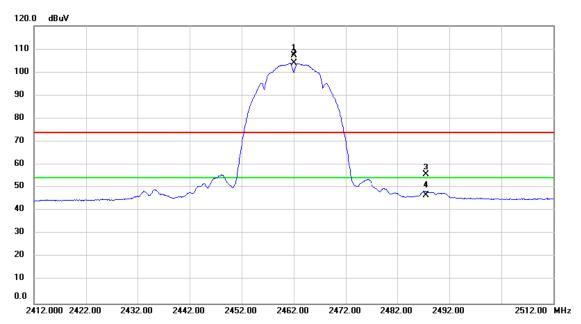
Report No.: BTL-FCCP-3-1806T107A

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TX B MODE _2462 MHz Horizontal Test Mode Polarization



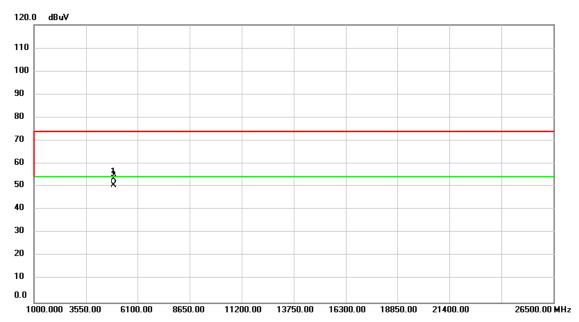
No	. М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	Х	2462.000	76.22	31.09	107.31	74.00	33.31	peak	No Limit
2	*	2462.000	72.79	31.09	103.88	54.00	49.88	AVG	No Limit
3		2487.559	24.58	31.19	55.77	74.00	-18.23	peak	
4		2487.559	15.54	31.19	46.73	54.00	-7.27	AVG	

Report No.: BTL-FCCP-3-1806T107A





TX B MODE _2462 MHz Horizontal Test Mode Polarization



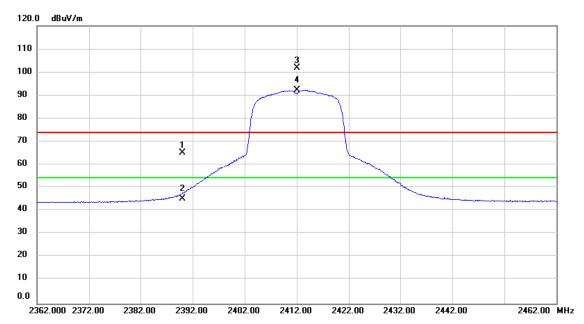
No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		4924.000	64.68	-11.37	53.31	74.00	-20.69	peak	
2	*	4924.000	61.79	-11.37	50.42	54.00	-3.58	AVG	

Report No.: BTL-FCCP-3-1806T107A





TX G MODE _2412 MHz Test Mode Polarization Vertical



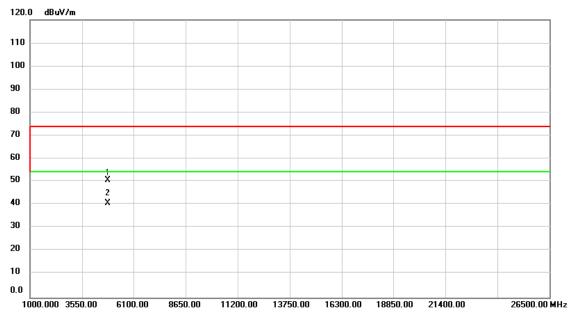
1	۷o.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		2390.000	34.29	30.84	65.13	74.00	-8.87	peak	
	2		2390.000	14.26	30.84	45.10	54.00	-8.90	AVG	
	3	Х	2412.000	70.94	30.92	101.86	74.00	27.86	peak	No Limit
	4	*	2412.000	61.32	30.92	92.24	54.00	38.24	AVG	No Limit

Report No.: BTL-FCCP-3-1806T107A





TX G MODE _2412 MHz Test Mode Polarization Vertical



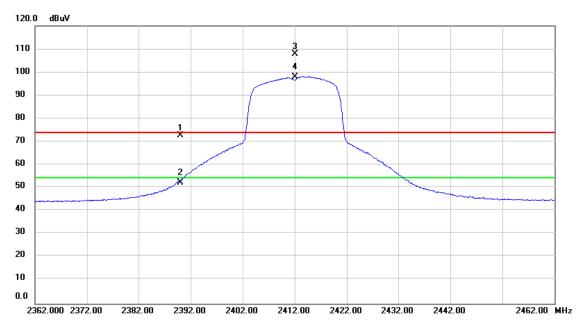
No.	MI	k. Free	Readi 1. Leve		t Measure r ment	- Limit	Over				
		MHz	dBu\	√ dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1		4824.00	0 61.9	8 -11.48	50.50	74.00	-23.50	peak			
2	*	4824.00	0 52.0	6 -11.48	40.58	54.00	-13.42	AVG			

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX G MODE _2412 MHz Polarization Horizontal



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
	1		2390.000	41.99	30.84	72.83	74.00	-1.17	peak	
_	2		2390.000	21.31	30.84	52.15	54.00	-1.85	AVG	
	3	Х	2412.000	76.99	30.92	107.91	74.00	33.91	peak	No Limit
	4	*	2412.000	67.05	30.92	97.97	54.00	43.97	AVG	No Limit

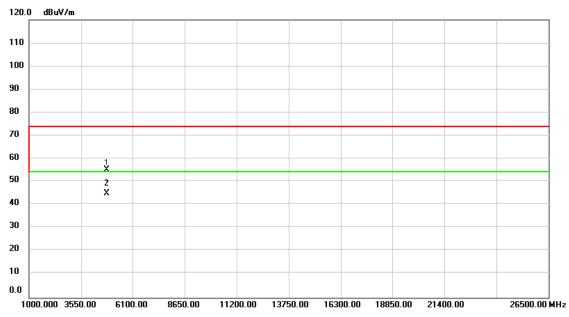
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Test Mode TX G MODE _2412 MHz Polarization Horizontal



No.	MI	k. Fre		ading evel	Correct Factor	Measure- ment	Limit	Over		
		MH:	. (dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
1		4824.00	0 6	6.53	-11.48	55.05	74.00	-18.95	peak	
2	*	4824.00	0 5	6.33	-11.48	44.85	54.00	-9.15	AVG	

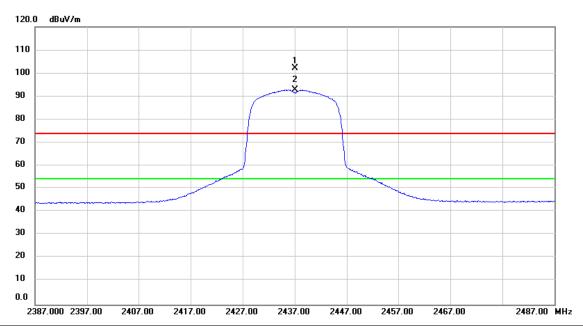
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Test Mode TX G MODE _2437 MHz Polarization Vertical



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	2437.000	71.07	31.01	102.08	74.00	28.08	peak	No Limit
	2	*	2437.000	61.78	31.01	92.79	54.00	38.79	AVG	No Limit

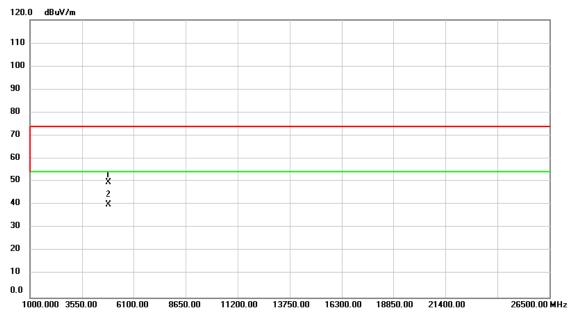
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Test Mode TX G MODE _2437 MHz Polarization Vertical



No	. М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48	374.000	60.99	-11.42	49.57	74.00	-24.43	peak	
2	*	48	374.000	51.38	-11.42	39.96	54.00	-14.04	AVG	

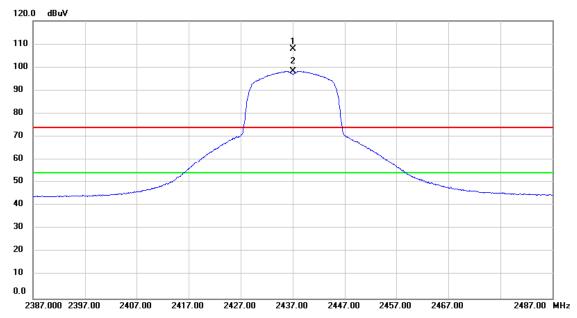
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TX G MODE _2437 MHz Horizontal Test Mode Polarization



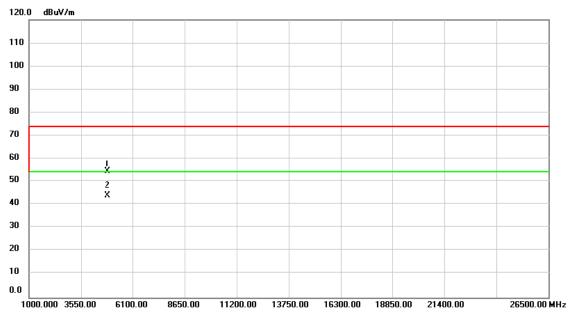
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	Х	2437.000	76.96	31.01	107.97	74.00	33.97	peak	No Limit
2	*	2437.000	67.18	31.01	98.19	54.00	44.19	AVG	No Limit

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX G MODE _2437 MHz Polarization Horizontal



 10.	MŁ	k. Freq.	_	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	65.85	-11.42	54.43	74.00	-19.57	peak	
2	*	4874.000	55.23	-11.42	43.81	54.00	-10.19	AVG	

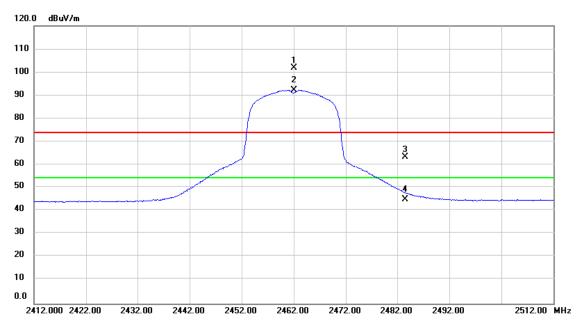
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Test Mode TX G MODE _2462 MHz Polarization Vertical



1	10.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Χ	2462.000	70.84	31.09	101.93	74.00	27.93	peak	No Limit
	2	*	2462.000	61.22	31.09	92.31	54.00	38.31	AVG	No Limit
	3		2483.582	32.43	31.17	63.60	74.00	-10.40	peak	
	4		2483.582	13.74	31.17	44.91	54.00	-9.09	AVG	

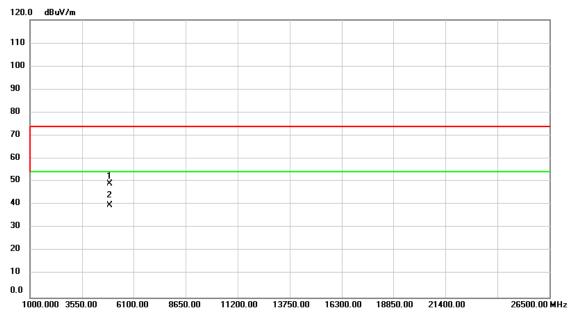
Report No.: BTL-FCCP-3-1806T107A

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TX G MODE _2462 MHz Test Mode Polarization Vertical



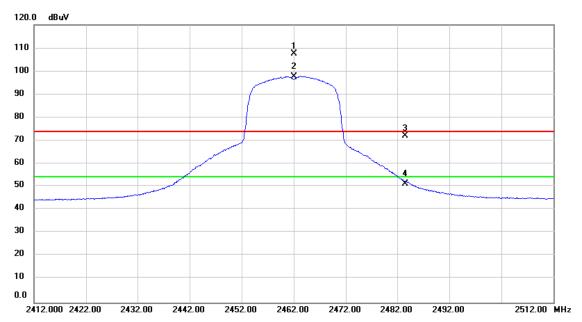
N	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4924.000	60.42	-11.37	49.05	74.00	-24.95	peak	
	2	*	4924.000	51.23	-11.37	39.86	54.00	-14.14	AVG	

Report No.: BTL-FCCP-3-1806T107A





TX G MODE _2462 MHz Horizontal Test Mode Polarization



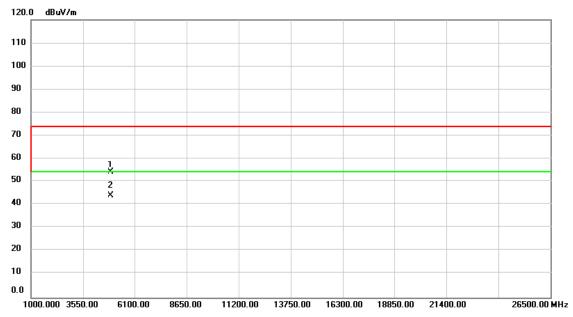
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	Χ	2462.000	76.47	31.09	107.56	74.00	33.56	peak	No Limit
2	*	2462.000	66.67	31.09	97.76	54.00	43.76	AVG	No Limit
3		2483.550	40.96	31.17	72.13	74.00	-1.87	peak	
4		2483.550	20.01	31.17	51.18	54.00	-2.82	AVG	

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX G MODE _2462 MHz Polarization Horizontal



N	o. N	Иk.	Freq.	Reading Level		Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	49	924.000	65.62	-11.37	54.25	74.00	-19.75	peak	
	2 *	* 49	924.000	55.43	-11.37	44.06	54.00	-9.94	AVG	

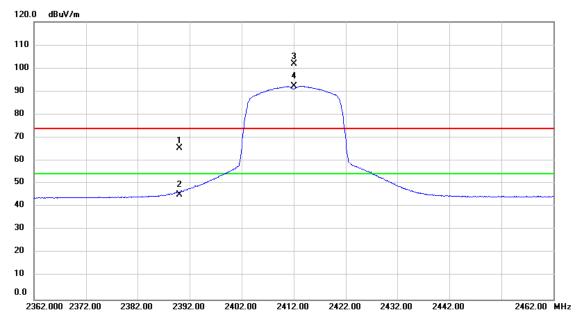
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Test Mode TX N (HT20) MODE 2412MHz Polarization Vertical



Vo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	34.69	30.84	65.53	74.00	-8.47	peak	
2		2390.000	14.30	30.84	45.14	54.00	-8.86	AVG	
3	Х	2412.000	70.85	30.92	101.77	74.00	27.77	peak	No Limit
4	*	2412.000	61.26	30.92	92.18	54.00	38.18	AVG	No Limit

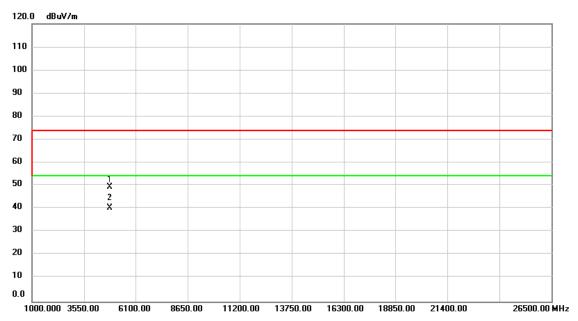
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Test Mode TX N (HT20) MODE 2412MHz Polarization Vertical



 10.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	60.93	-11.48	49.45	74.00	-24.55	peak	
2	*	4824.000	51.96	-11.48	40.48	54.00	-13.52	AVG	

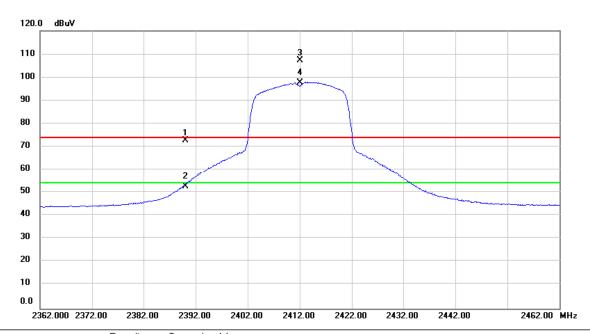
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Test Mode TX N (HT20) MODE 2412MHz Polarization Horizontal



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBu∨	dB	dBu∀	dBu∨	dB	Detector	Comment
_	1	2	390.000	41.99	30.84	72.83	74.00	-1.17	peak	
_	2	2	390.000	21.72	30.84	52.56	54.00	-1.44	AVG	
_	3	X 2	412.000	76.33	30.92	107.25	74.00	33.25	peak	No Limit
_	4	* 2	412.000	66.84	30.92	97.76	54.00	43.76	AVG	No Limit
_										

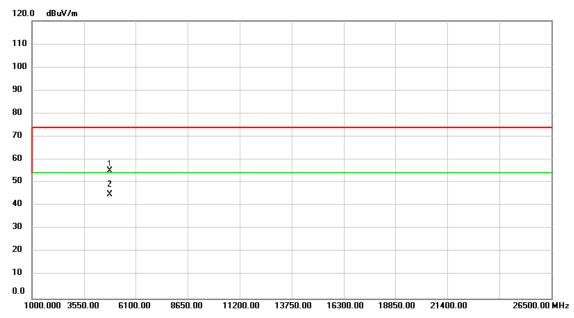
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TX N (HT20) MODE 2412MHz Test Mode Polarization Horizontal



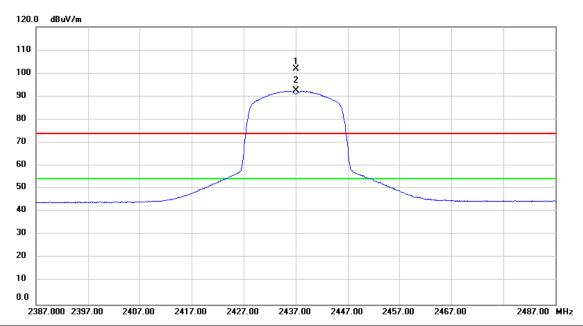
No.	MŁ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	66.39	-11.48	54.91	74.00	-19.09	peak	
2	*	4824.000	56.20	-11.48	44.72	54.00	-9.28	AVG	

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX N (HT20) MODE 2437MHz Polarization Vertical



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	Х	2437.000	70.98	31.01	101.99	74.00	27.99	peak	No Limit
	2	*	2437.000	61.62	31.01	92.63	54.00	38.63	AVG	No Limit

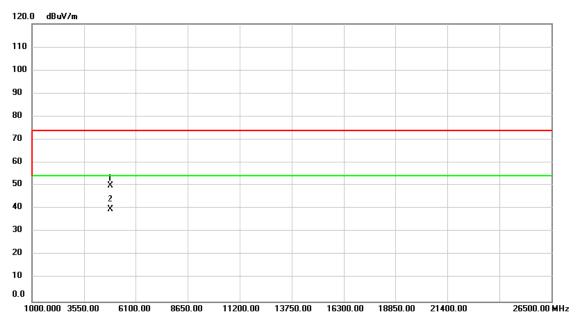
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TX N (HT20) MODE 2437MHz Test Mode Polarization Vertical



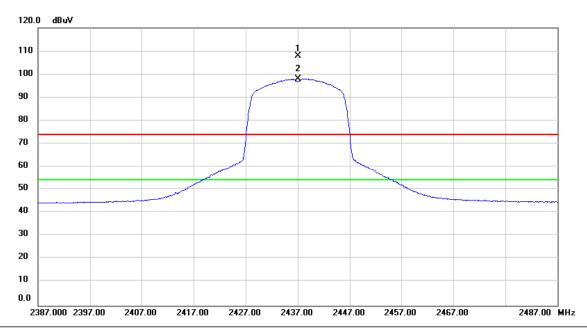
1	۷o.	MŁ	k. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			МН	Z	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4874.0	00	61.46	-11.42	50.04	74.00	-23.96	peak	
	2	*	4874.0	00	51.20	-11.42	39.78	54.00	-14.22	AVG	

Report No.: BTL-FCCP-3-1806T107A





TX N (HT20) MODE 2437MHz Horizontal Test Mode Polarization



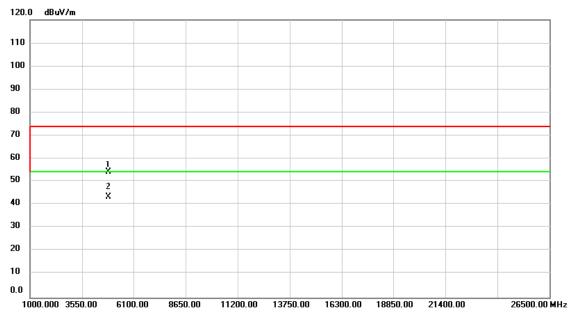
	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over			
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
_	1	Χ	2437.000	76.78	31.01	107.79	74.00	33.79	peak	No Limit	
_	2	*	2437.000	67.07	31.01	98.08	54.00	44.08	AVG	No Limit	

Report No.: BTL-FCCP-3-1806T107A





TX N (HT20) MODE 2437MHz Test Mode Polarization Horizontal



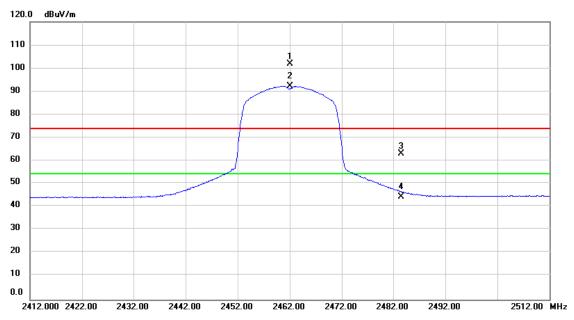
No	. М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48	374.000	65.55	-11.42	54.13	74.00	-19.87	peak	
2	*	48	374.000	54.83	-11.42	43.41	54.00	-10.59	AVG	

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX N (HT20) MODE 2462MHz Polarization Vertical



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	2462.000	70.66	31.09	101.75	74.00	27.75	peak	No Limit
2	*	2462.000	61.05	31.09	92.14	54.00	38.14	AVG	No Limit
3		2483.500	32.08	31.17	63.25	74.00	-10.75	peak	
4		2483.500	13.09	31.17	44.26	54.00	-9.74	AVG	

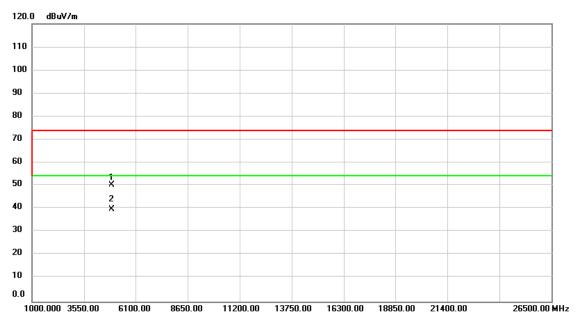
Report No.: BTL-FCCP-3-1806T107A

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TX N (HT20) MODE 2462MHz Test Mode Polarization Vertical



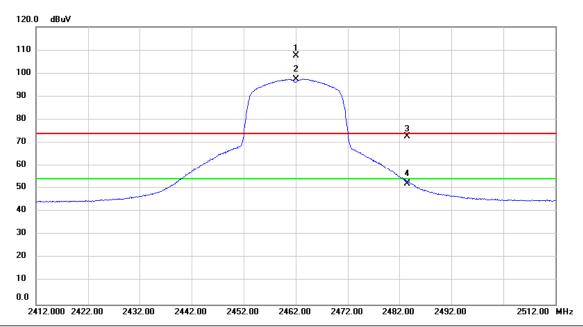
No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	61.74	-11.37	50.37	74.00	-23.63	peak	
2	*	4924.000	51.22	-11.37	39.85	54.00	-14.15	AVG	

Report No.: BTL-FCCP-3-1806T107A





TX N (HT20) MODE 2462MHz Horizontal Test Mode Polarization



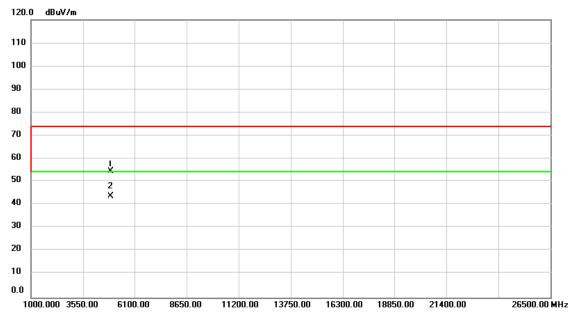
N	Ο.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
	1	Χ	2462.000	76.50	31.09	107.59	74.00	33.59	peak	No Limit
	2	*	2462.000	66.28	31.09	97.37	54.00	43.37	AVG	No Limit
	3		2483.599	41.67	31.17	72.84	74.00	-1.16	peak	
	4		2483.599	20.86	31.17	52.03	54.00	-1.97	AVG	

Report No.: BTL-FCCP-3-1806T107A





Test Mode TX N (HT20) MODE 2462MHz Polarization Horizontal



No	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4924.000	65.69	-11.37	54.32	74.00	-19.68	peak	
	2	*	4924.000	55.12	-11.37	43.75	54.00	-10.25	AVG	

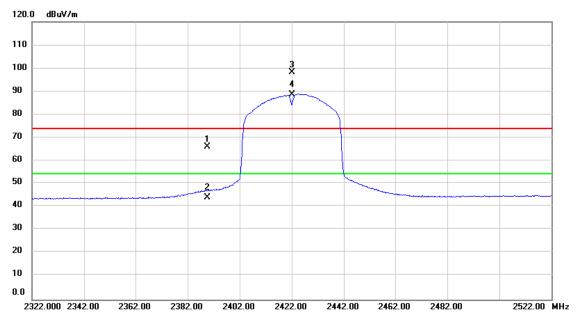
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Test Mode TX N (HT40) MODE 2422MHz Polarization Vertical



N	o. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
	1	2	389.592	35.25	30.84	66.09	74.00	-7.91	peak	
	2	2	389.592	13.16	30.84	44.00	54.00	-10.00	AVG	
	3	X 2	422.000	67.27	30.96	98.23	74.00	24.23	peak	No Limit
	4	* 2	422.000	57.75	30.96	88.71	54.00	34.71	AVG	No Limit

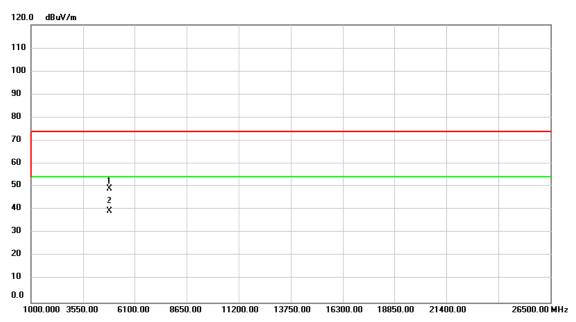
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Test Mode TX N (HT40) MODE 2422MHz Polarization Vertical



No.	MŁ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	60.58	-11.46	49.12	74.00	-24.88	peak	
2	*	4844.000	50.95	-11.46	39.49	54.00	-14.51	AVG	

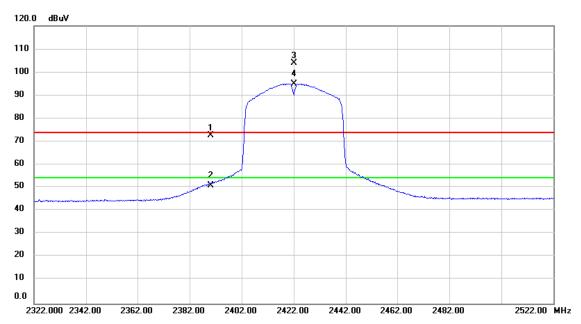
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Test Mode TX N (HT40) MODE 2422MHz Polarization Horizontal



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
_	1		2390.000	41.95	30.84	72.79	74.00	-1.21	peak	
_	2		2390.000	20.01	30.84	50.85	54.00	-3.15	AVG	
	3	Х	2422.000	73.02	30.96	103.98	74.00	29.98	peak	No Limit
	4	*	2422.000	63.99	30.96	94.95	54.00	40.95	AVG	No Limit

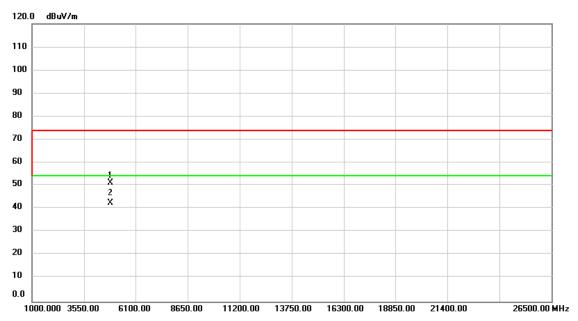
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Test Mode TX N (HT40) MODE 2422MHz Polarization Horizontal



 lo.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	62.53	-11.46	51.07	74.00	-22.93	peak	
2	*	4844.000	53.86	-11.46	42.40	54.00	-11.60	AVG	

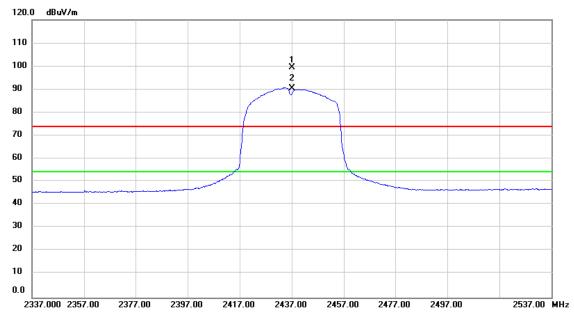
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Test Mode TX N (HT40) MODE 2437MHz Polarization Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2437.000	68.39	31.01	99.40	74.00	25.40	peak	No Limit
2	*	2437.000	59.32	31.01	90.33	54.00	36.33	AVG	No Limit

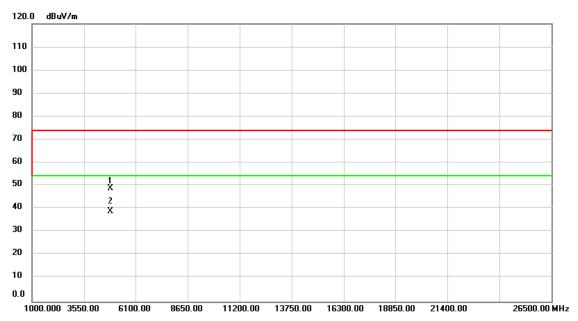
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TX N (HT40) MODE 2437MHz Test Mode Polarization Vertical



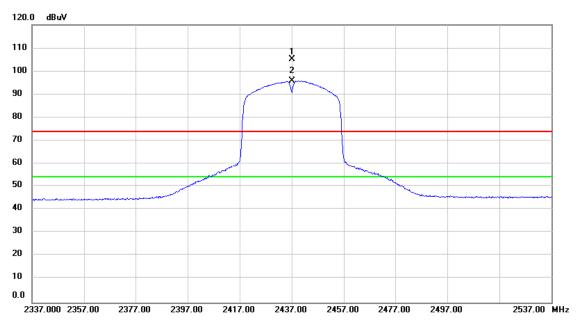
No	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48	74.000	60.31	-11.42	48.89	74.00	-25.11	peak	
2	*	48	74.000	50.33	-11.42	38.91	54.00	-15.09	AVG	

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Test Mode TX N (HT40) MODE 2437MHz Polarization Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	X 2	437.000	74.13	31.01	105.14	74.00	31.14	peak	No Limit
2	* 2	437.000	64.81	31.01	95.82	54.00	41.82	AVG	No Limit

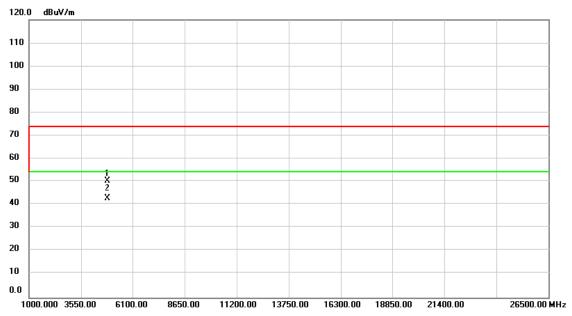
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Test Mode TX N (HT40) MODE 2437MHz Polarization Horizontal



No.	MI	k.	Freq.			Measure- ment		Over		
			MHz	dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
1		48	74.000	61.64	-11.42	50.22	74.00	-23.78	peak	
2	*	48	74.000	54.08	-11.42	42.66	54.00	-11.34	AVG	

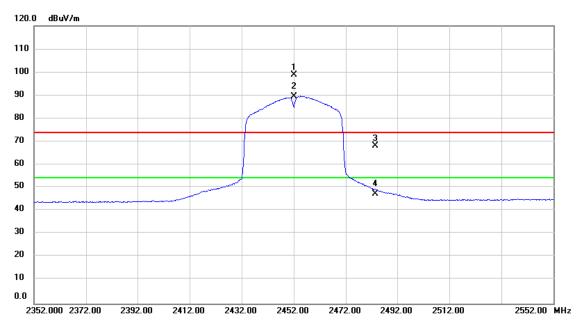
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Test Mode TX N (HT40) MODE 2452MHz Polarization Vertical



No	. М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	2452.000	67.88	31.07	98.95	74.00	24.95	peak	No Limit
2	*	2452.000	58.52	31.07	89.59	54.00	35.59	AVG	No Limit
3		2483.500	37.17	31.17	68.34	74.00	-5.66	peak	
4		2483.500	15.95	31.17	47.12	54.00	-6.88	AVG	

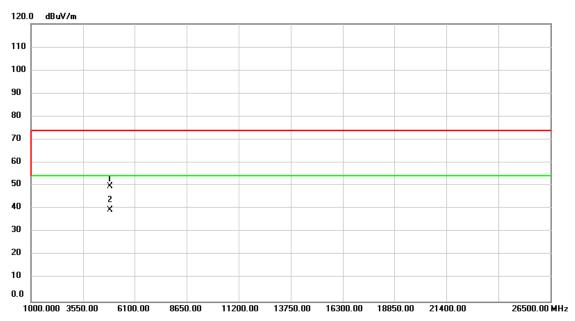
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TX N (HT40) MODE 2452MHz Test Mode Polarization Vertical



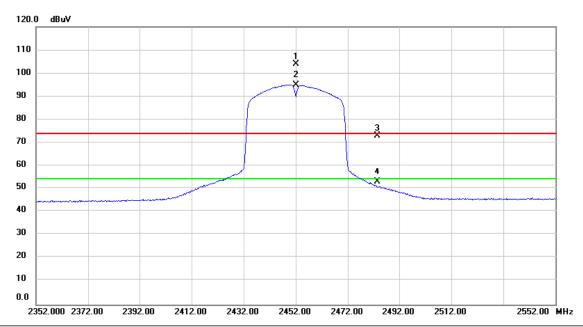
No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	60.96	-11.39	49.57	74.00	-24.43	peak	
2	*	4904.000	50.94	-11.39	39.55	54.00	-14.45	AVG	

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Test Mode TX N (HT40) MODE 2452MHz Polarization Horizontal



No	э. М	k. Fre	Reading J. Level	g Correct Factor	Measure- ment	Limit	Over				
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment		
	1 X	2452.00	0 72.95	31.07	104.02	74.00	30.02	peak	No Limit		
	2 *	2452.00	0 63.89	31.07	94.96	54.00	40.96	AVG	No Limit		
	3	2483.50	0 41.80	31.17	72.97	74.00	-1.03	peak			
	1	2483.50	0 21.70	31.17	52.87	54.00	-1.13	AVG			

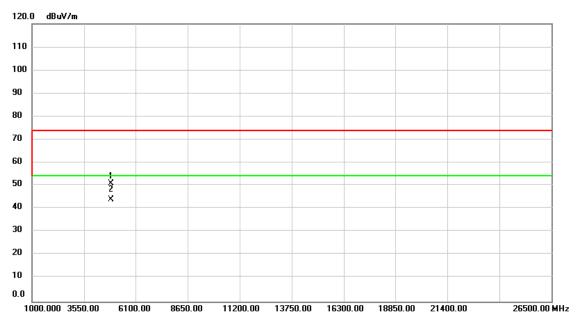
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Test Mode TX N (HT40) MODE 2452MHz Polarization Horizontal



N	o. N	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	4	904.000	62.24	-11.39	50.85	74.00	-23.15	peak	
	2	* 4	904.000	55.40	-11.39	44.01	54.00	-9.99	AVG	

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APPENDIX – REFERENCE INFORMATION

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Normal Condition Power Table

WLAN Test Mode

	_	AN	IT-0	Total I	Power	Liı	mit	
Mode	Frequency (MHz)	Peak	Average	Peak	Average	Peak	PASS/	
	(1411-12)	dBm	dBm	dBm	dBm	dBm	FAIL	
	2412	17.30	15.42	17.30	15.42	30.00	PASS	
802.11b	2437	17.39	15.51	17.39	15.51	30.00	PASS	
	2462	17.13	15.21	17.13	15.21	30.00	PASS	
	2412	18.40	12.02	18.40	12.02	30.00	PASS	
802.11g	2437	19.94	13.22	19.94	13.22	30.00	PASS	
	2462	18.51	12.51	18.51	12.51	30.00	PASS	
	2412	18.35	11.78	18.35	11.78	30.00	PASS	
802.11n20	2437	19.82	12.15	19.82	12.15	30.00	PASS	
	2462	19.76	11.96	19.76	11.96	30.00	PASS	
	2422	19.51	10.64	19.51	10.64	30.00	PASS	
802.11n40	2437	19.87	11.97	19.87	11.97	30.00	PASS	
	2452	19.50	10.90	19.50	10.90	30.00	PASS	

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