



CTC Laboratories, Inc.

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TEST REPORT

Report No.	CTC20220185E02
FCC ID.....	2AC88-GLMU21A03
IC.....	24230-GLMU21A03
Applicant.....	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address.....	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
Manufacturer.....	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address.....	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
Product Name.....	4G Wireless Data Terminal
Trade Mark.....	GlocalMe
Model/Type reference.....	GLMU21A03
Listed Model(s)	/
Standard.....	FCC CFR Title 47 Part 15 Subpart C Section 15.247 RSS 247 Issue 2
Date of receipt of test sample....	Feb. 11, 2022
Date of testing.....	Feb. 11, 2022 to Mar. 29, 2022
Date of issue.....	Mar. 30, 2022
Result.....	PASS

Compiled by:	
(Printed name+signature)	Terry Su
Supervised by:	
(Printed name+signature)	Miller Ma
Approved by:	
(Printed name+signature)	Totti Zhao

Testing Laboratory Name.....	CTC Laboratories, Inc.
Address.....	1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

[RSS 247 Issue 2](#): Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSSs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	Mar. 30, 2022	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 2				
Test Item	Standard Section		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Eva Feng
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	RSS 247 5.5	Pass	Alicia Liu
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Alicia Liu
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Alicia Liu
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Alicia Liu
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Alicia Liu
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5&RSS-Gen 8.9	Pass	Alicia Liu

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.08 dB	(1)
Radiated Emissions 30~1000MHz	4.51 dB	(1)
Radiated Emissions 1~18GHz	5.84 dB	(1)
Radiated Emissions 18~40GHz	6.12 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
Manufacturer:	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
Factory:	Shenzhen uCloudlink Network Technology Co., Ltd.
Address:	3rd Floor, A part of Building 1, Shenzhen Software Industry Base, Nanshan District Xuefu Road, 518057 Shenzhen City, Guangdong, China



2.2. General Description of EUT

Product Name:	4G Wireless Data Terminal
Trade Mark:	GlocalMe
Model/Type reference:	GLMU21A03
Listed Model(s):	/
Power supply:	5Vdc/1A from USB Cable 3.8Vdc from 3000mAh Li-ion Battery
Hardware version:	QDC511_GL
Software version:	MOCOR_20A_UIS8310_MIFI_V1.1_MP_W21.44.7
WIFI 802.11b/ g/ n(HT20)/ n(HT40)	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/g/n(HT20):11channels 802.11n(HT40):7channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	1.94dBi Max

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2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
Type-C Cable	With	Without	1M
Test Software Information			
Name	Versions	/	/
sscom5.13.1.exe	V5.13.1	/	/



2.4. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	HT-MCS0
802.11n(HT40)	HT-MCS0

Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.



2.5. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	KEYSIGHT	N9020A	100231	Dec. 23, 2022
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022 Mar. 14, 2023
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 23, 2022
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 23, 2022
5	Power Sensor	Agilent	U2021XA	MY5365004	Mar. 15, 2022 Mar. 14, 2023
6	Power Sensor	Agilent	U2021XA	MY5365006	Mar. 15, 2022 Mar. 14, 2023
7	High and low temperature box	ESPEC	MT3035	N/A	Mar. 24, 2022 Mar. 14, 2023
8	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	102414	Dec. 23, 2022
9	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated emission(3m chamber 2)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Jan. 12, 2023
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 23, 2022
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 23, 2022
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 15, 2022 Mar. 14, 2023
5	Pre-Amplifier	SONOMA	310	186194	Dec. 23, 2022
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 23, 2022
7	Test Receiver	R&S	ESCI7	100967	Dec. 23, 2022

Radiated emission(3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Nov. 09, 2022
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 23, 2022
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 23, 2022
4	Broadband Premplifier	SCHWARZBECK	BBV9743B	259	Dec. 23, 2022
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 23, 2022

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 23, 2022
2	LISN	R&S	ENV216	101113	Dec. 23, 2022
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 23, 2022

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

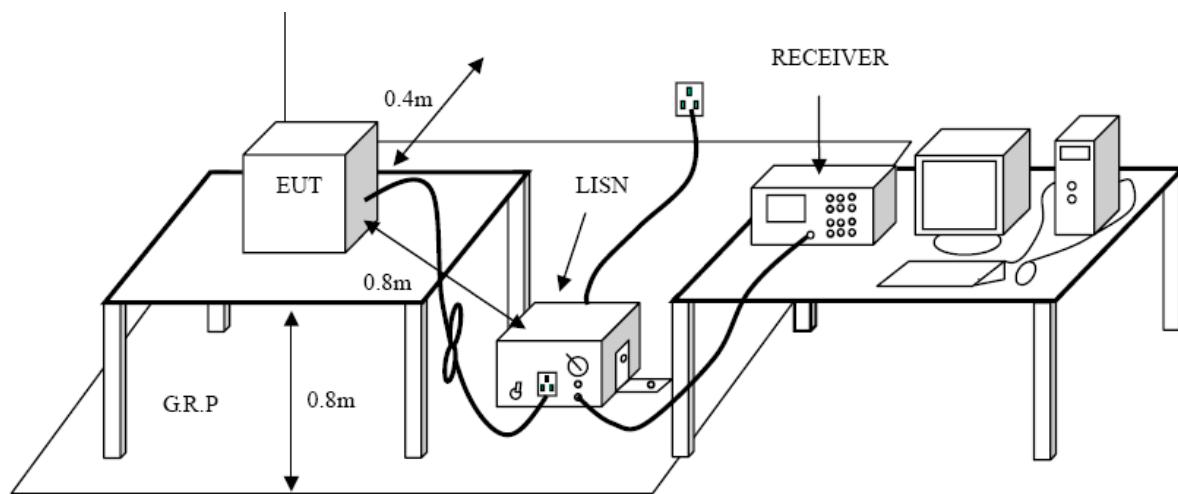
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration

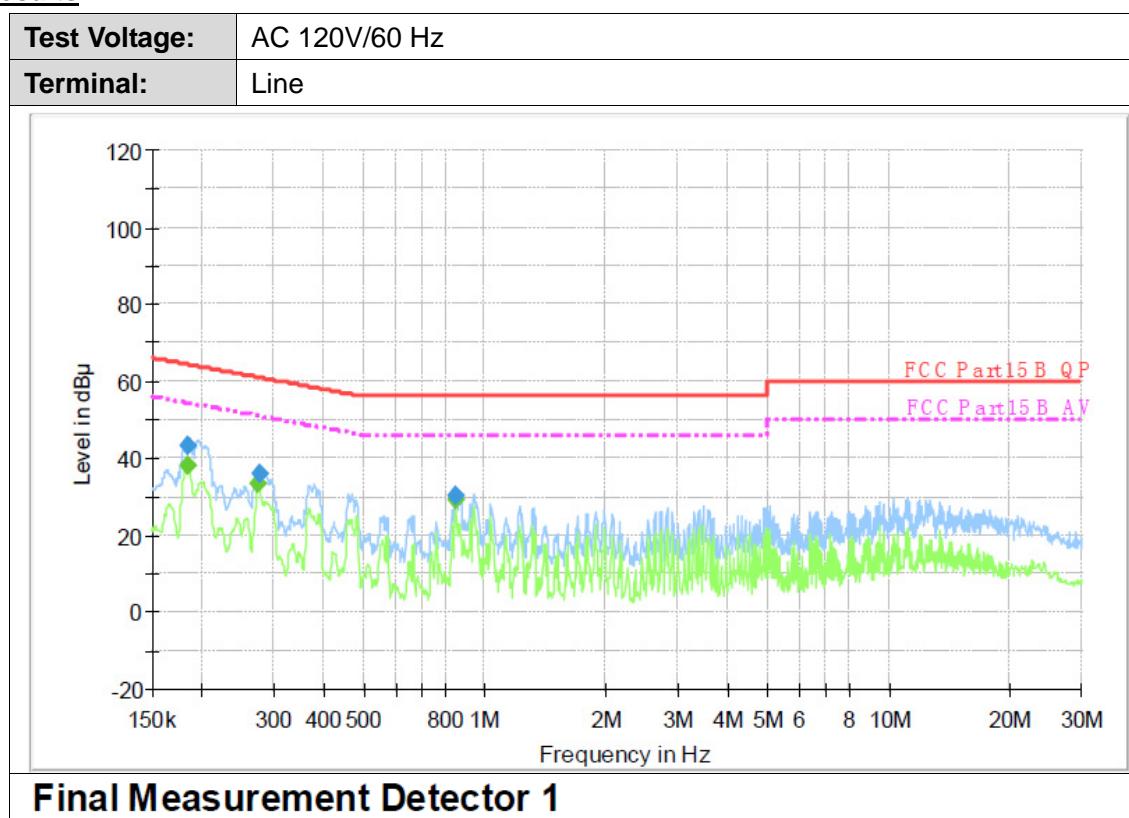


Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
 7. During the above scans, the emissions were maximized by cable manipulation.

**Test Mode:**

Please refer to the clause 2.4.

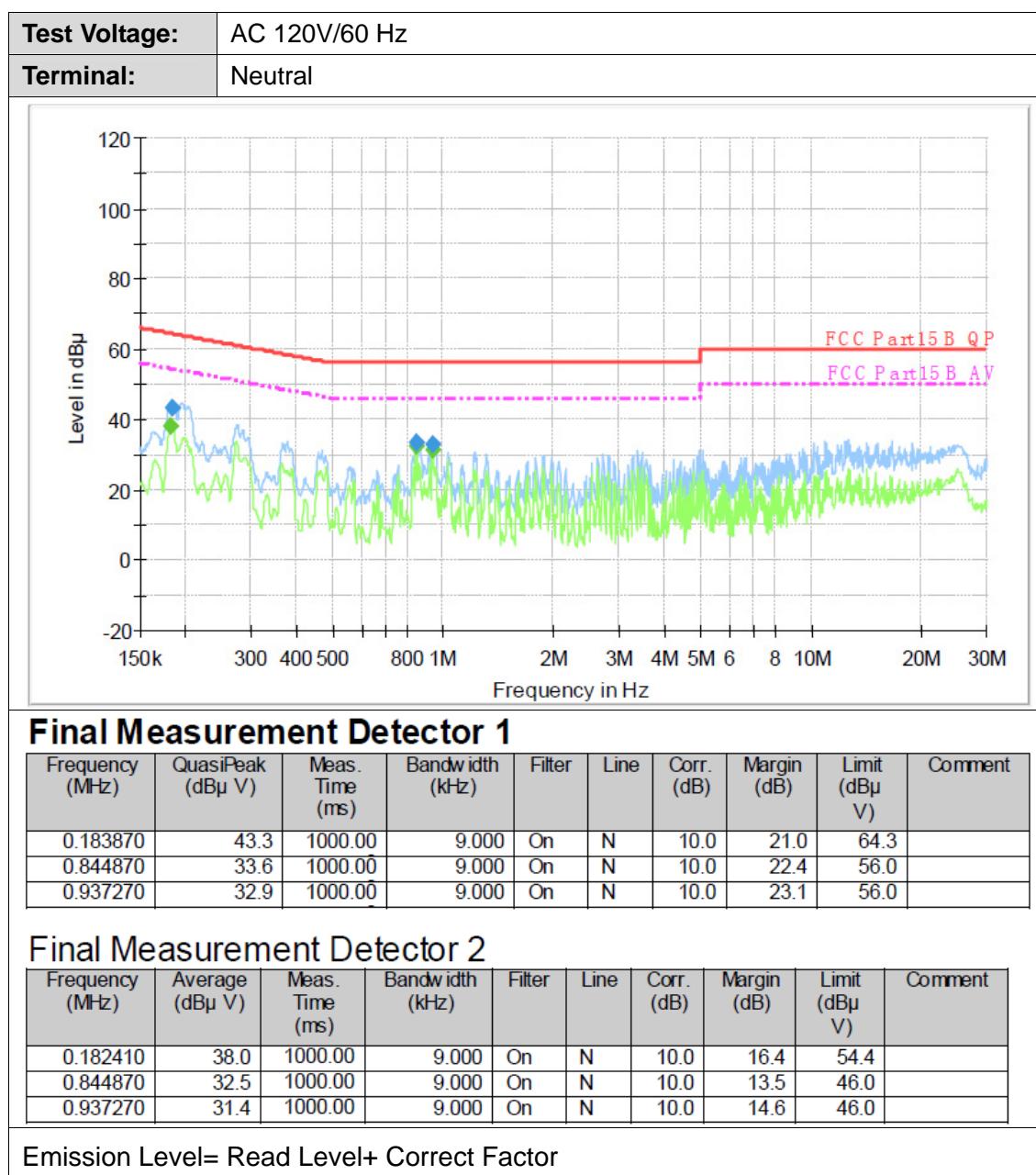
Test Results**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.183870	43.5	1000.00	9.000	On	L1	9.7	20.8	64.3	
0.276280	36.1	1000.00	9.000	On	L1	9.7	24.8	60.9	
0.848250	30.2	1000.00	9.000	On	L1	9.7	25.8	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.183140	37.9	1000.00	9.000	On	L1	9.7	16.4	54.3	
0.274080	33.5	1000.00	9.000	On	L1	9.7	17.5	51.0	
0.848250	29.1	1000.00	9.000	On	L1	9.7	16.9	46.0	

Emission Level= Read Level+ Correct Factor



3.2. Radiated Emission

Limit

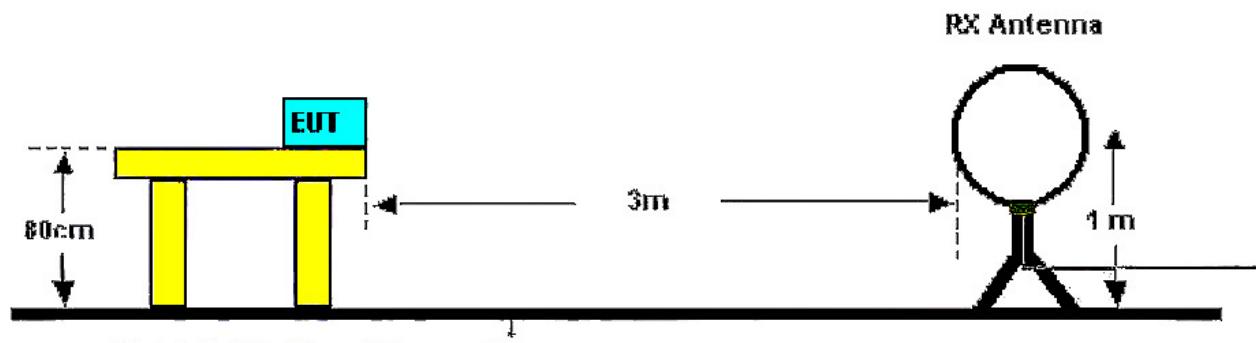
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

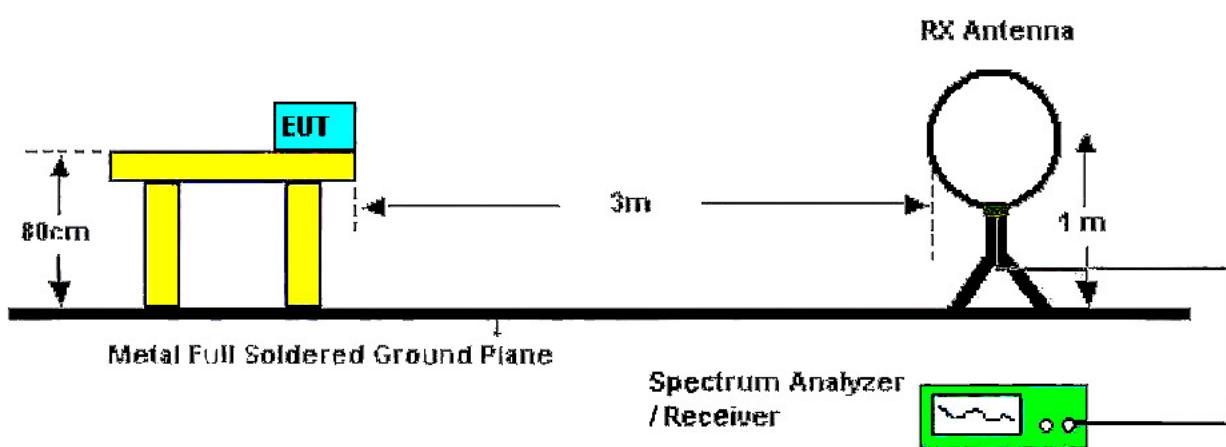
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

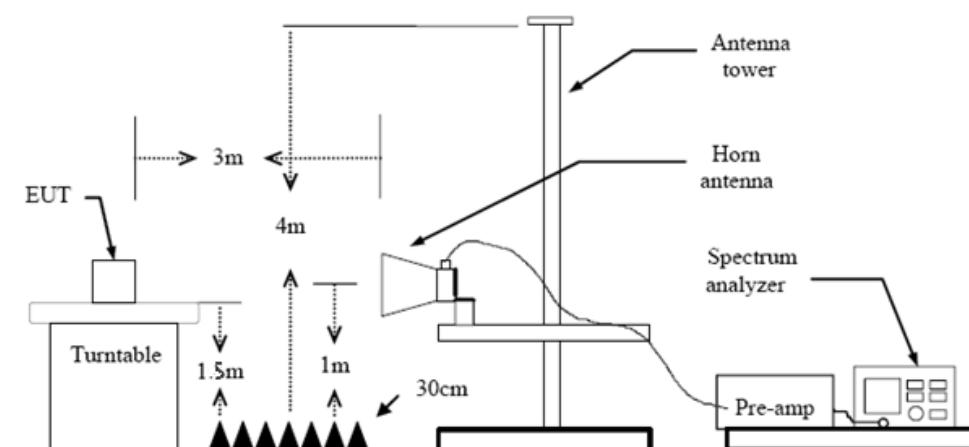
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.4.

Test Result

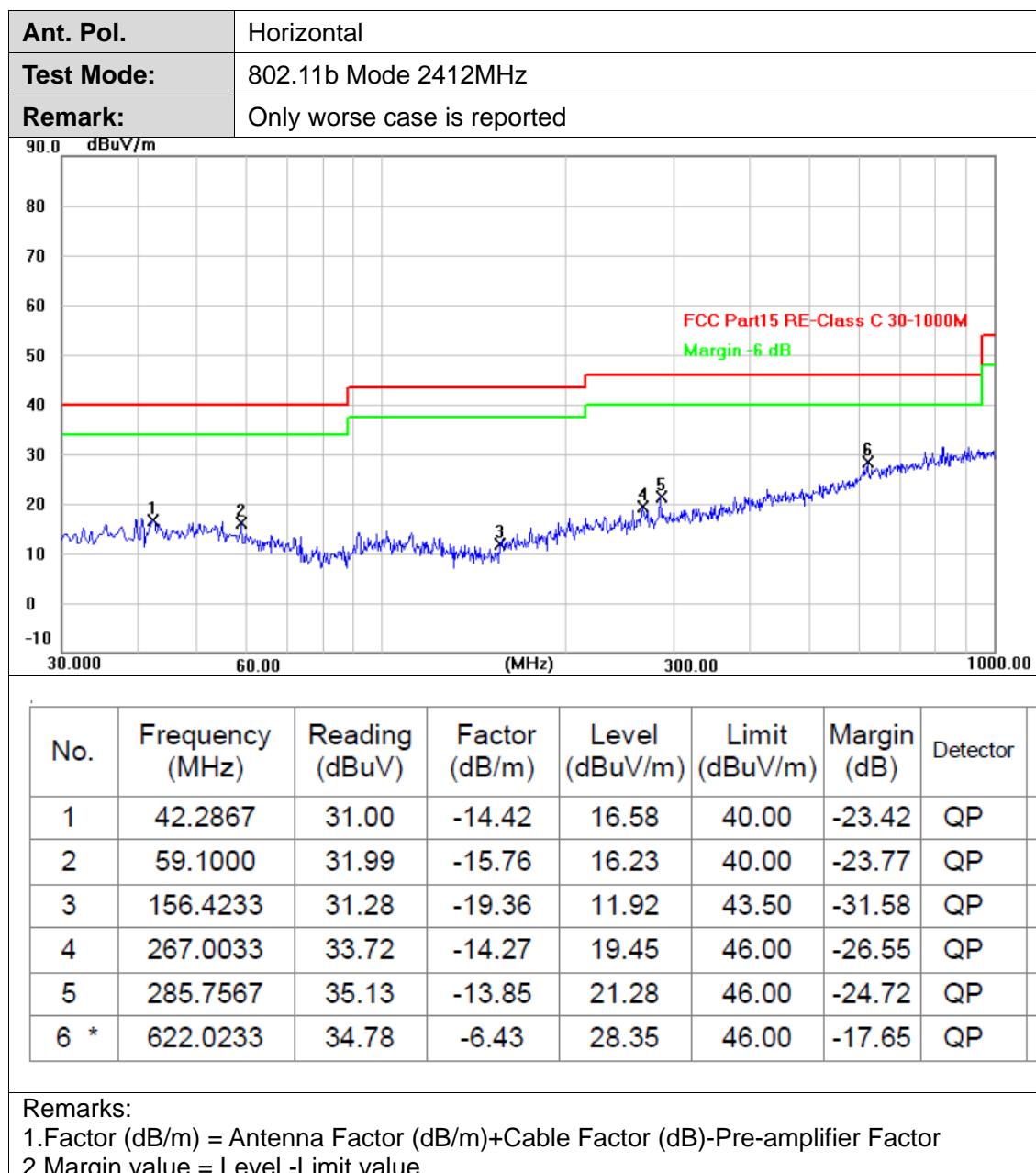
9 KHz~30 MHz

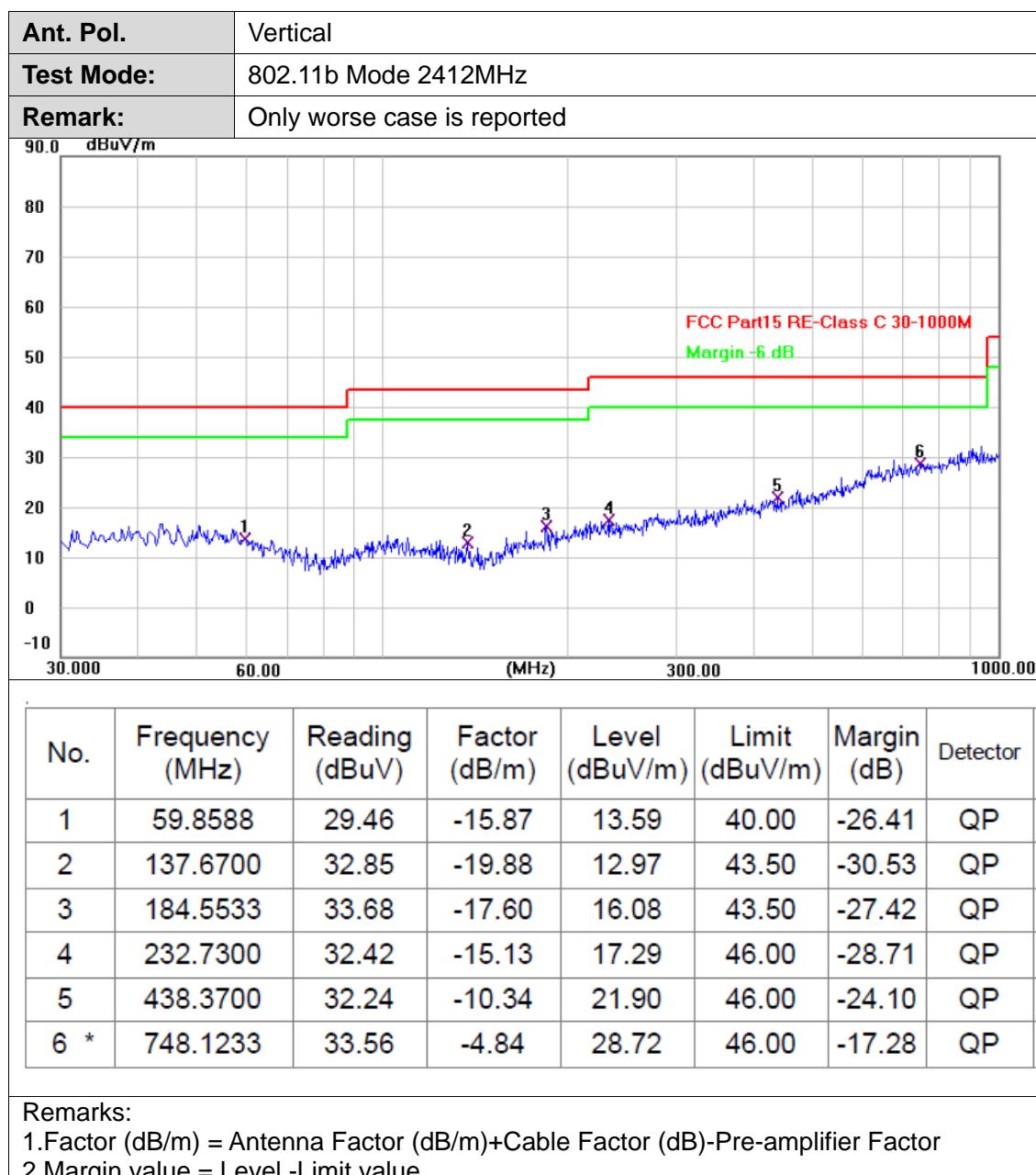
From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1GHz







Adobe 1GHz

Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11b Mode 2412MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1 *</td><td>4823.165</td><td>26.69</td><td>2.20</td><td>28.89</td><td>54.00</td><td>-25.11</td><td>AVG</td></tr><tr><td>2</td><td>4824.440</td><td>37.46</td><td>2.20</td><td>39.66</td><td>74.00</td><td>-34.34</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4823.165	26.69	2.20	28.89	54.00	-25.11	AVG	2	4824.440	37.46	2.20	39.66	74.00	-34.34	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4823.165	26.69	2.20	28.89	54.00	-25.11	AVG																								
2	4824.440	37.46	2.20	39.66	74.00	-34.34	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.	Vertical																														
Test Mode:	TX 802.11b Mode 2412MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>The figure is a spectral plot with the Y-axis labeled 'dBuV/m' ranging from 0.0 to 120.0 in increments of 10. The X-axis is labeled '(MHz)' with major ticks at 1000.000, 3500.00, 6000.00, 8500.00, 11000.00, 16000.00, 18500.00, 21000.00, 23500.00, and 26000.0. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part15 C - Above 1G PK'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part15 C - Above 1G AV'. Two data points are plotted: point 1 at approximately 4823.781 MHz with a reading of 38.74 dBuV, and point 2 at approximately 4824.167 MHz with a reading of 26.77 dBuV. The plot area has a grid background.</p>																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>4823.781</td><td>38.74</td><td>2.20</td><td>40.94</td><td>74.00</td><td>-33.06</td><td>peak</td></tr><tr><td>2 *</td><td>4824.167</td><td>26.77</td><td>2.20</td><td>28.97</td><td>54.00</td><td>-25.03</td><td>Avg</td></tr></tbody></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	4823.781	38.74	2.20	40.94	74.00	-33.06	peak	2 *	4824.167	26.77	2.20	28.97	54.00	-25.03	Avg
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4823.781	38.74	2.20	40.94	74.00	-33.06	peak																								
2 *	4824.167	26.77	2.20	28.97	54.00	-25.03	Avg																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11b Mode 2437MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4873.671	39.16	2.30	41.46	74.00	-32.54	peak																								
2 *	4874.190	26.36	2.30	28.66	54.00	-25.34	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4874.061	37.64	2.30	39.94	74.00	-34.06	peak																								
2 *	4874.191	25.91	2.30	28.21	54.00	-25.79	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4923.117	25.95	2.41	28.36	54.00	-25.64	AVG																								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4923.028	37.04	2.41	39.45	74.00	-34.55	peak																								
2 *	4924.495	25.60	2.41	28.01	54.00	-25.99	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4823.457	26.39	2.20	28.59	54.00	-25.41	AVG																								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4873.700	25.84	2.30	28.14	54.00	-25.86	AVG																								
2	4874.873	35.10	2.30	37.40	74.00	-36.60	peak																								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4874.277	25.87	2.30	28.17	54.00	-25.83	AVG																								
2	4874.604	36.92	2.30	39.22	74.00	-34.78	peak																								
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<p>The graph plots dBuV/m against frequency from 1000.000 to 26000.000 MHz. A red horizontal line at 74.00 dBuV represents the FCC Part15 C - Above 1G PK limit. A green horizontal line at 54.00 dBuV represents the FCC Part15 C - Above 1G AV limit. Two data points are plotted: point 1 at 4924.171 MHz with a reading of 40.16 dBuV and point 2 at 4924.529 MHz with a reading of 27.98 dBuV. The y-axis ranges from 0.0 to 120.0 dBuV/m.</p>																															
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4924.171	37.75	2.41	40.16	74.00	-33.84	peak																								
2 *	4924.529	25.57	2.41	27.98	54.00	-26.02	AVG																								
<p>Remarks: 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4924.004	25.78	2.41	28.19	54.00	-25.81	AVG																								
2	4924.479	37.63	2.41	40.04	74.00	-33.96	peak																								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4823.803	26.28	2.20	28.48	54.00	-25.52	AVG																								
2	4823.847	37.83	2.20	40.03	74.00	-33.97	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4823.785	37.41	2.20	39.61	74.00	-34.39	peak																								
2 *	4824.574	26.22	2.20	28.42	54.00	-25.58	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



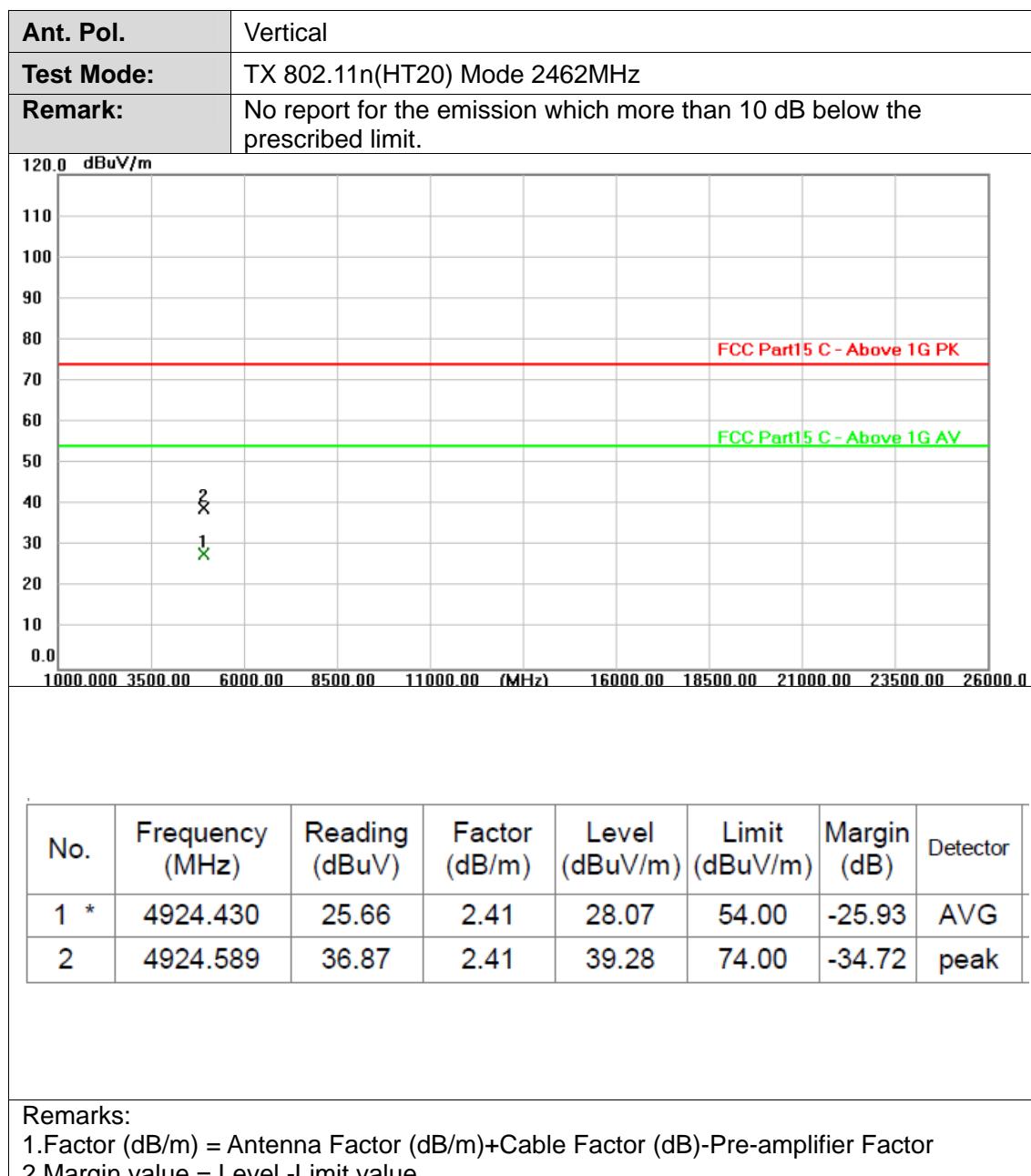
Ant. Pol.	Horizontal																															
Test Mode:	TX 802.11n(HT20) Mode 2437MHz																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1 *	4874.242	26.01	2.30	28.31	54.00	-25.69	AVG																									
2	4874.583	37.43	2.30	39.73	74.00	-34.27	peak																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																																

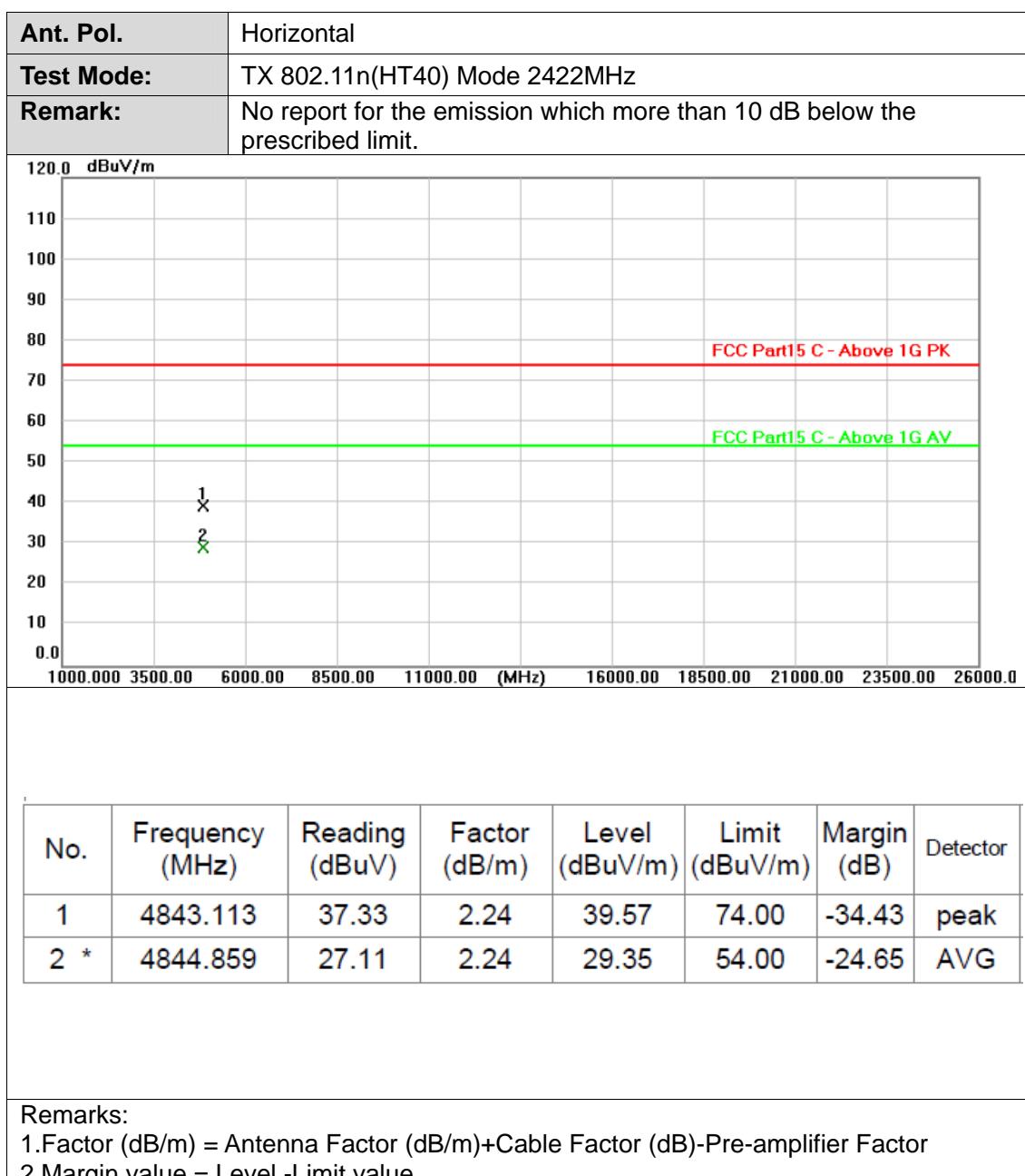


Ant. Pol.	Vertical																															
Test Mode:	TX 802.11n(HT20) Mode 2437MHz																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
 Detailed description: The figure is a line graph with a grid background. The x-axis is labeled '(MHz)' and ranges from 1000.000 to 26000.0. The y-axis is labeled 'dBuV/m' and ranges from 0.0 to 120.0. A red horizontal line is drawn at approximately 74 dBuV/m and is labeled 'FCC Part15 C - Above 1G PK'. A green horizontal line is drawn at approximately 54 dBuV/m and is labeled 'FCC Part15 C - Above 1G AV'. Two data points are plotted: point 2 is marked with a red 'X' at approximately 40 dBuV/m, and point 1 is marked with a green 'X' at approximately 30 dBuV/m.																																
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1 *</td><td>4873.818</td><td>26.16</td><td>2.30</td><td>28.46</td><td>54.00</td><td>-25.54</td><td>AVG</td></tr><tr><td>2</td><td>4874.239</td><td>37.53</td><td>2.30</td><td>39.83</td><td>74.00</td><td>-34.17</td><td>peak</td></tr></tbody></table>									No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4873.818	26.16	2.30	28.46	54.00	-25.54	AVG	2	4874.239	37.53	2.30	39.83	74.00	-34.17	peak
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<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																																



Ant. Pol.	Horizontal																															
Test Mode:	TX 802.11n(HT20) Mode 2462MHz																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1 *</td><td>4924.939</td><td>25.64</td><td>2.41</td><td>28.05</td><td>54.00</td><td>-25.95</td><td>AVG</td></tr><tr><td>2</td><td>4924.961</td><td>37.12</td><td>2.41</td><td>39.53</td><td>74.00</td><td>-34.47</td><td>peak</td></tr></tbody></table>									No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4924.939	25.64	2.41	28.05	54.00	-25.95	AVG	2	4924.961	37.12	2.41	39.53	74.00	-34.47	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1 *	4924.939	25.64	2.41	28.05	54.00	-25.95	AVG																									
2	4924.961	37.12	2.41	39.53	74.00	-34.47	peak																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																







Ant. Pol.	Vertical																														
Test Mode:	TX 802.11n(HT40) Mode 2422MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>The figure is a spectral plot with the Y-axis labeled 'dBuV/m' ranging from 0.0 to 120.0 in increments of 10. The X-axis is labeled '(MHz)' and ranges from 1000.000 to 26000.0 in increments of 3500.0. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part15 C - Above 1G PK'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part15 C - Above 1G AV'. Two data points are plotted: point 1 at 4844.201 MHz with a reading of 37.56 dBuV, and point 2 at 4844.301 MHz with a reading of 26.92 dBuV. Both points fall well below the FCC limits.</p>																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>4844.201</td><td>37.56</td><td>2.24</td><td>39.80</td><td>74.00</td><td>-34.20</td><td>peak</td></tr><tr><td>2 *</td><td>4844.301</td><td>26.92</td><td>2.24</td><td>29.16</td><td>54.00</td><td>-24.84</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	4844.201	37.56	2.24	39.80	74.00	-34.20	peak	2 *	4844.301	26.92	2.24	29.16	54.00	-24.84	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4844.201	37.56	2.24	39.80	74.00	-34.20	peak																								
2 *	4844.301	26.92	2.24	29.16	54.00	-24.84	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.	Horizontal																															
Test Mode:	TX 802.11n(HT40) Mode 2437MHz																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
 120.0 dBuV/m 110 100 90 80 70 60 50 40 30 20 10 0.0 FCC Part15 C - Above 1G PK FCC Part15 C - Above 1G AV 2 1 1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0																																
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1 *	4874.061	26.47	2.30	28.77	54.00	-25.23	AVG																									
2	4874.331	37.22	2.30	39.52	74.00	-34.48	peak																									
<p>Remarks: 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																																





Ant. Pol.	Vertical																															
Test Mode:	TX 802.11n(HT40) Mode 2437MHz																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
<p>120.0 dBuV/m 110 100 90 80 70 60 50 40 30 20 10 0.0</p> <p>FCC Part15 C - Above 1G PK</p> <p>FCC Part15 C - Above 1G AV</p> <p>2 X</p> <p>1 X</p> <p>1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0</p>																																
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
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<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT40) Mode 2452MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 Detailed description: The figure is a line graph with a grid. The x-axis is labeled '(MHz)' and ranges from 1000.000 to 26000.000. The y-axis is labeled 'dBuV/m' and ranges from 0.0 to 120.0. A red horizontal line is drawn at approximately 74 dBuV/m and is labeled 'FCC Part15 C - Above 1G PK'. A green horizontal line is drawn at approximately 54 dBuV/m and is labeled 'FCC Part15 C - Above 1G AV'. Two data points are plotted: point 1 is at approximately 4903.575 MHz with a reading of 27.22 dBuV and a factor of 2.36 dB/m; point 2 is at approximately 4904.169 MHz with a reading of 38.70 dBuV and a factor of 2.36 dB/m.																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1 *</td><td>4903.575</td><td>27.22</td><td>2.36</td><td>29.58</td><td>54.00</td><td>-24.42</td><td>AVG</td></tr><tr><td>2</td><td>4904.169</td><td>38.70</td><td>2.36</td><td>41.06</td><td>74.00</td><td>-32.94</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4903.575	27.22	2.36	29.58	54.00	-24.42	AVG	2	4904.169	38.70	2.36	41.06	74.00	-32.94	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4903.575	27.22	2.36	29.58	54.00	-24.42	AVG																								
2	4904.169	38.70	2.36	41.06	74.00	-32.94	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.	Vertical																														
Test Mode:	TX 802.11n(HT40) Mode 2452MHz																														
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4903.960	27.36	2.36	29.72	54.00	-24.28	AVG																								
2	4904.732	38.70	2.36	41.06	74.00	-32.94	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																															

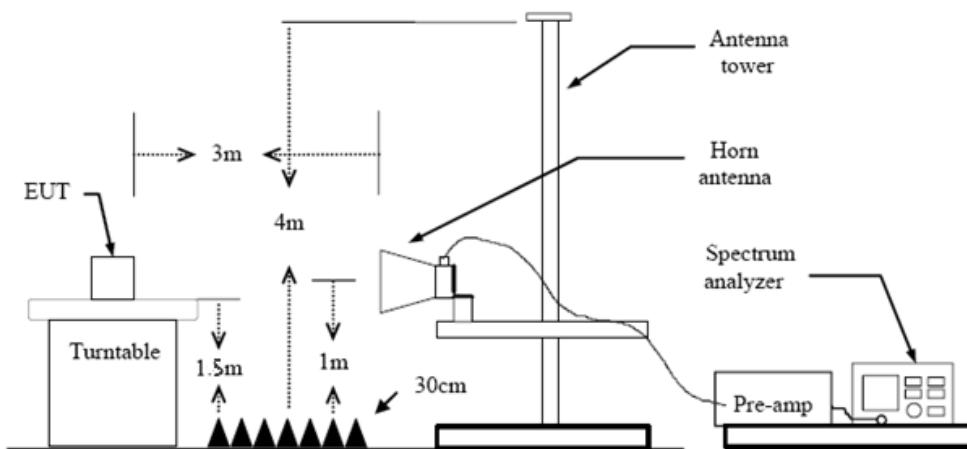
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.7 Duty Cycle.

2: Duty Cycle> 98%, VBW=10Hz.

Test Mode

Please refer to the clause 2.4.

Test Results

