FCC 47 CFR PART 15 SUBPART C

Report No.: C170228Z06-RP1-1

for

GDU Remote Controller

Model: CME03-O2

Brand: N/A

Test Report Number: C170228Z06-RP1-1 Issued Date: July 11, 2017

Issued for

Prodrone Technology (Shenzhen) Co., Ltd

11th floor, Tower 1, Novel Park, 4078 Dong Bin Road, Nanshan District, Shenzhen

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 11, 2017	Initial Issue	ALL	Sinphy Xie

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1 TEST CERTIFICATION

Product	GDU Remote Controller
Model	CME03-O2
Brand	N/A
Tested	February 28~July 10, 2017
Applicant	Prodrone Technology (Shenzhen) Co., Ltd 11th floor, Tower 1, Novel Park, 4078 Dong Bin Road, Nanshan District, Shenzhen
Manufacturer	Prodrone Technology (Shenzhen) Co., Ltd 11th floor, Tower 1, Novel Park, 4078 Dong Bin Road, Nanshan District, Shenzhen

APPLICABLE STANDARDS							
Standard	Test Type	Standard	Test Type				
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions				
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement				
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density				

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247. The test results of this report relate only to the tested sample EUT identified in this report.

Approved by: Reviewed by:

Sunday Hu Supervisor of EMC Dept.

Compliance Certification Services (Shenzhen)

Inc.

Ruby Zhang Supervisor of Report Dept. Compliance Certification Services (Shenzhen)

2 TEST RESULT SUMMARY

APPLICABLE STANDARDS							
Standard	Test Type	Result	Remark				
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.				
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.				
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.				
15.247(e)	Peak Power Spectral Density	Pass	Meet the requirement of limit.				
15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions	Pass	Meet the requirement of limit.				
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.				

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

^{2.} The information of measurement uncertainty is available upon the customer's request.

3 EUT DESCRIPTION

Product	GDU Remote Controller
Model Number	CME03-O2
Brand	N/A
Model Discrepancy	N/A
Identify Number	C170228Z06-RP1-1
Received Date	February 28, 2017
Power Supply	DC13.05V powered from adapter
Adapter manufacturer /model No.	Model: CPD-BC03 Input: AC100-240V~50/60Hz 1.5A (Max.) Output: 13.05V, 3A; 13.05V, 1A DC cable: Unshielded, 1.50m
Transmit Power	IEEE 802.11b mode: 17.90dBm (Antenna 1) IEEE 802.11b mode: 17.30dBm (Antenna 2) IEEE 802.11g mode: 24.00dBm (Antenna 1) IEEE 802.11g mode: 24.80dBm (Antenna 2) IEEE 802.11n HT20 MHz mode: 26.67dBm(Combine with Antenna 1 and Antenna 2)
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate	IEEE 802.11b: 11Mbps(CCK) with fall back rates of 5.5/2/1Mbps IEEE 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9 /6Mbps IEEE 802.11n HT20: 130Mbps with fall back rates of 130/117/104/ 78/52/39/26/13Mbps
Number of Channels	IEEE 802.11b mode: 11 Channels IEEE 802.11g mode: 11 Channels IEEE 802.11n HT20 MHz mode: 11 Channels
Antenna Specification	PCB directional antenna with 3dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20: 5MHz
Temperature Range	-10°C ~ +50°C
Hardware Version	ITM-AP12 V3.0
Software Version	V1.1

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

^{2.} This submittal(s) (test report) is intended for <u>FCC ID: 2AKIE-PD-RC03-0301</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software use to control the EUT for staying in continuous transmitting and receiving mode.

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Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Charging	
Radiated Emission	Mode 1: Continuously Transmitting	\boxtimes

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode.

IEEE802.11b mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE802.11g mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 13Mbps data rate were chosen for full testing.

5 SETUP OF EQUIPMENT UNDER TEST

5.1. 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.

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No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Notebook	B475	WB04861612	DoC	LENOVO	N/A	Shielded 1.70m (AC Cable) Unshielded 1.80m (DC Cable)
2	Phone	N/A	N/A	N/A	OPPO	N/A	N/A
3	GDU Byrd	MGP03-O2	N/A	N/A	N/A	N/A	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC

Japan VCCI (C-4815,R-4320,T-2317, G-10624)

Canada INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccssz.com

6.3. 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:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site: 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range		nits pV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration				
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/11/2017	02/10/2018				
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/11/2017	02/10/2018				
LISN	EMCO	3825/2	8901-1459	02/12/2017	02/11/2018				
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/15/2017	02/14/2018				
Test S/W	FARAD		EZ-EMC/ CCS-3A	1-CE					

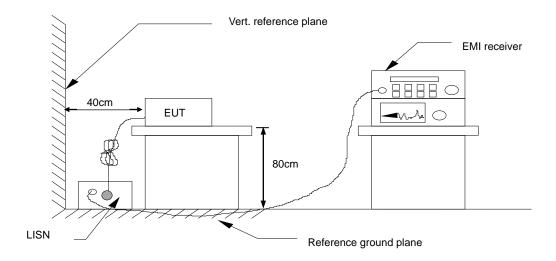
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

7.1.3. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.1.5. DATA SAMPLE

Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)
XXX.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

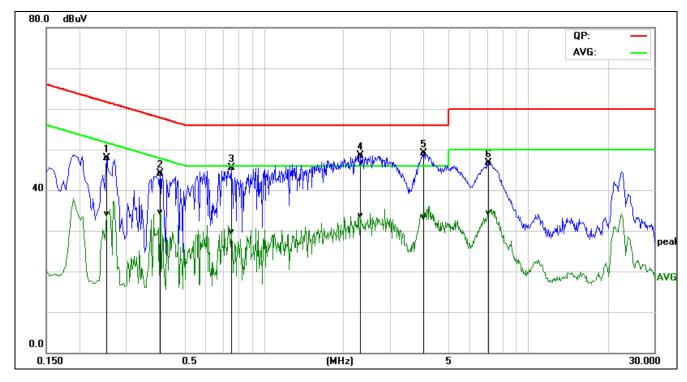
Limit = Limit stated in standard

Margin = Result (dBuV) – Limit (dBuV)

7.1.6. TEST RESULTS

Model No.		RBW,VBW	9 kHz
Environmental Conditions	26°C, 60% RH	Test Mode	Mode 1
Tested by	Saber Huang	Line	L1
Test Date	June 19, 2017	Test Voltage	AC120V/60Hz

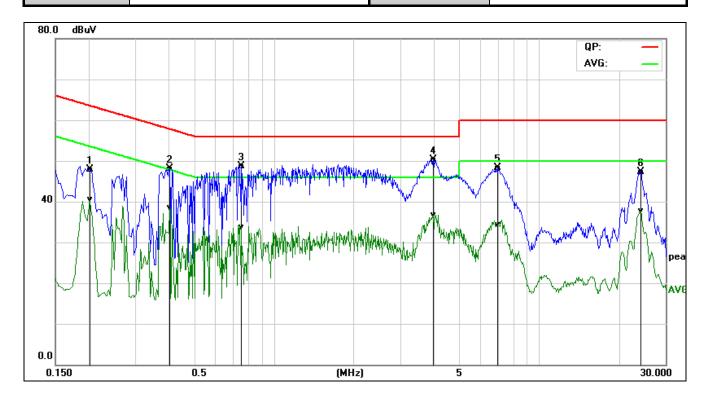
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Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.2540	28.37	14.47	19.62	47.99	34.09	61.62	51.63	-13.63	-17.54	Pass	L1
0.4060	24.50	14.92	19.56	44.06	34.48	57.73	47.73	-13.67	-13.25	Pass	L1
0.7539	25.87	10.15	19.60	45.47	29.75	56.00	46.00	-10.53	-16.25	Pass	L1
2.3260	28.79	13.96	19.72	48.51	33.68	56.00	46.00	-7.49	-12.32	Pass	L1
4.0140	29.27	13.57	19.73	49.00	33.30	56.00	46.00	-7.00	-12.70	Pass	L1
7.0740	26.78	14.42	19.84	46.62	34.26	60.00	50.00	-13.38	-15.74	Pass	L1

REMARKS: L1 = Line One (Live Line)

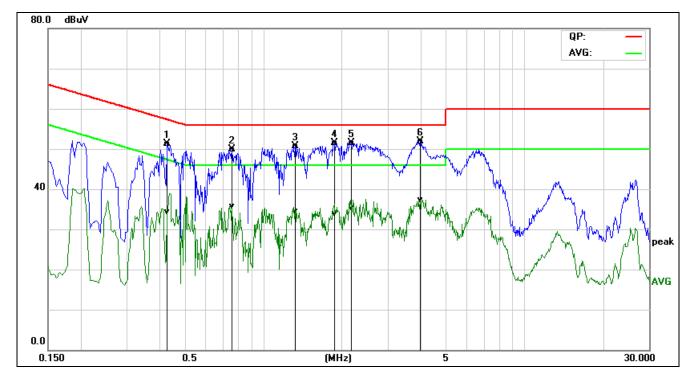
		RBW,VBW	9 kHz
Environmental Conditions	26°C, 60% RH	Test Mode	Mode 1
Tested by	Saber Huang	Line	L2
Test Date	June 19. 2017	Test Voltage	AC120V/60Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.2020	28.40	21.05	19.54	47.94	40.59	63.52	53.53	-15.58	-12.94	Pass	L2
0.4060	28.63	19.03	19.53	48.16	38.56	57.73	47.73	-9.57	-9.17	Pass	L2
0.7539	29.12	14.09	19.60	48.72	33.69	56.00	46.00	-7.28	-12.31	Pass	L2
4.0060	30.50	16.94	19.80	50.30	36.74	56.00	46.00	-5.70	-9.26	Pass	L2
7.0220	28.40	14.46	19.83	48.23	34.29	60.00	50.00	-11.77	-15.71	Pass	L2
24.1500	26.78	17.14	20.57	47.35	37.71	60.00	50.00	-12.65	-12.29	Pass	L2

REMARKS: L2 = Line Two (Neutral Line)

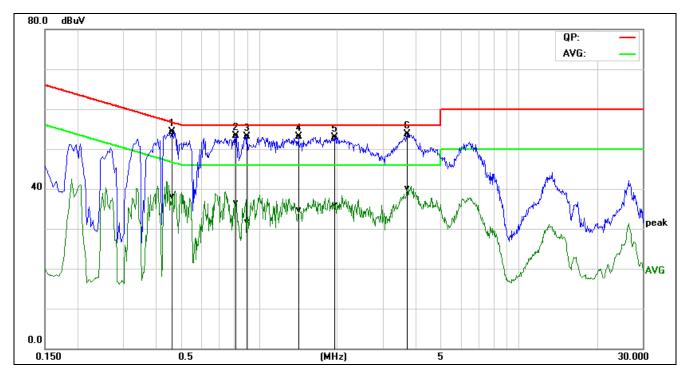
		RBW,VBW	9 kHz
Environmental Conditions	26°C, 60% RH	Test Mode	Mode 1
Tested by	Saber Huang	Line	L1
Test Date	June 19, 2017	Test Voltage	AC240V/50Hz



Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.4300	31.72	14.84	19.55	51.27	34.39	57.25	47.25	-5.98	-12.86	Pass	L1
0.7620	30.25	16.01	19.60	49.85	35.61	56.00	46.00	-6.15	-10.39	Pass	L1
1.3260	31.05	14.93	19.60	50.65	34.53	56.00	46.00	-5.35	-11.47	Pass	L1
1.8780	31.82	14.28	19.70	51.52	33.98	56.00	46.00	-4.48	-12.02	Pass	L1
2.1740	31.80	15.52	19.72	51.52	35.24	56.00	46.00	-4.48	-10.76	Pass	L1
3.9860	32.13	17.60	19.73	51.86	37.33	56.00	46.00	-4.14	-8.67	Pass	L1

REMARKS: L1 = Line One (Live Line)

Model No.		RBW,VBW	9 kHz
Environmental Conditions	26°C, 60% RH	Test Mode	Mode 1
Tested by	Saber Huang	Line	L2
Test Date	June 19, 2017	Test Voltage	AC240V/50Hz



Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.4660	34.83	18.50	19.53	54.36	38.03	56.58	46.58	-2.22	-8.55	Pass	L2
0.8139	33.65	16.89	19.59	53.24	36.48	56.00	46.00	-2.76	-9.52	Pass	L2
0.9020	33.57	12.12	19.57	53.14	31.69	56.00	46.00	-2.86	-14.31	Pass	L2
1.4220	33.53	15.17	19.62	53.15	34.79	56.00	46.00	-2.85	-11.21	Pass	L2
1.9620	33.17	16.22	19.72	52.89	35.94	56.00	46.00	-3.11	-10.06	Pass	L2
3.7260	33.81	20.36	19.79	53.60	40.15	56.00	46.00	-2.40	-5.85	Pass	L2

REMARKS: L2 = Line Two (Neutral Line)

7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

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If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3)requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b) (3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

7.2.1.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY55370330	02/21/2017	02/20/2018

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

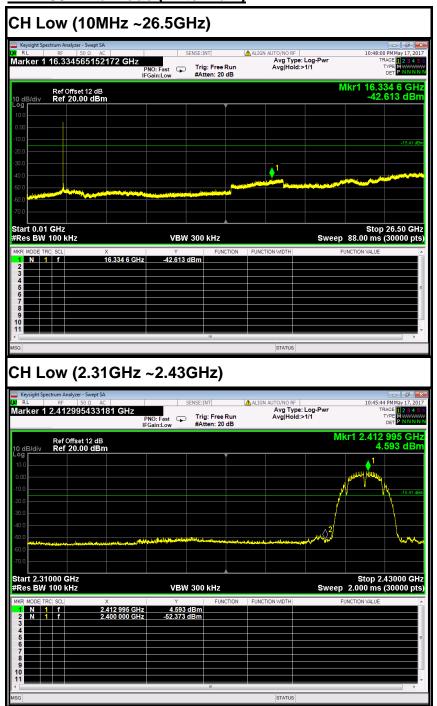
Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

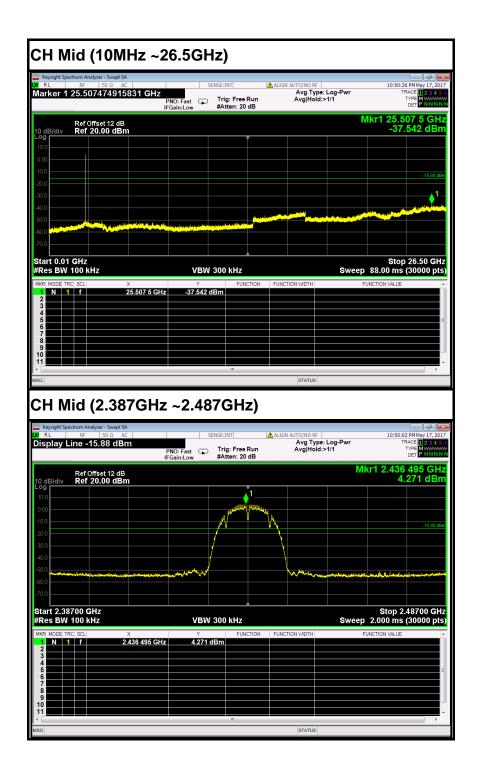
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

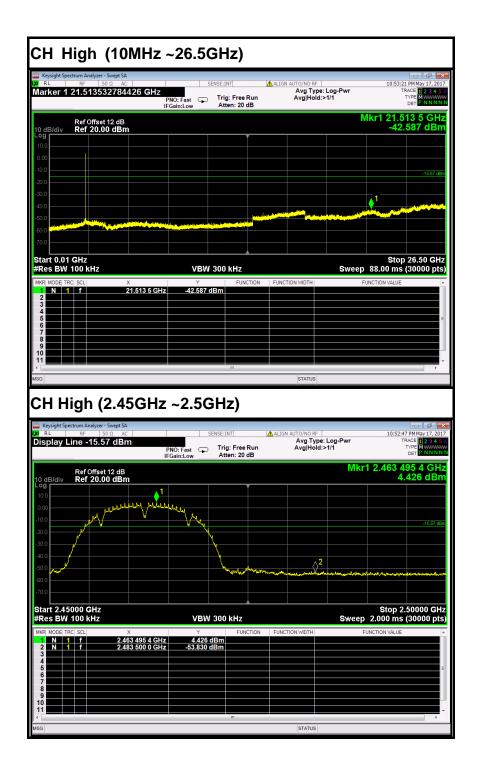
Measurements are made over the 9 kHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

7.2.1.4. TEST RESULTS

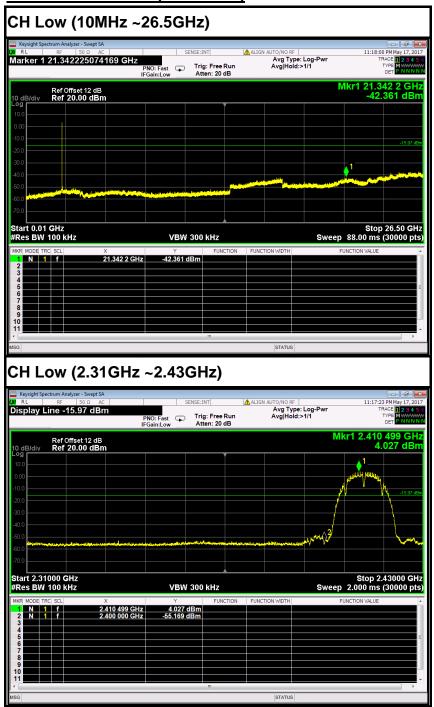
<u>Test Plot</u> <u>IEEE 802.11b mode (Antenna 1)</u>

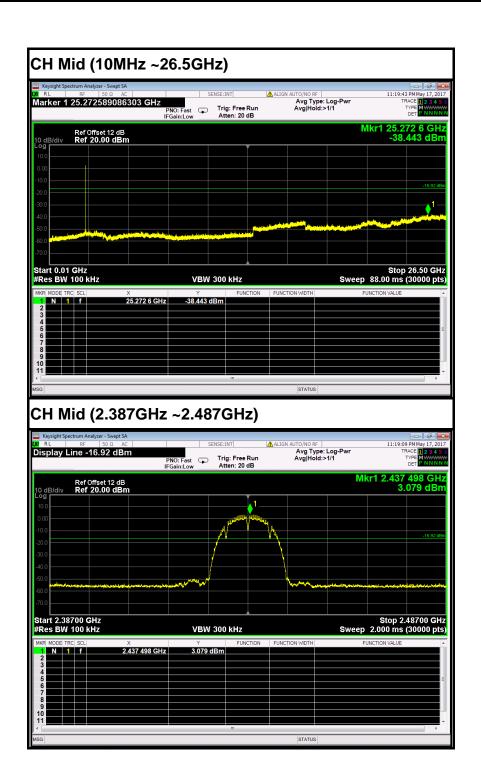


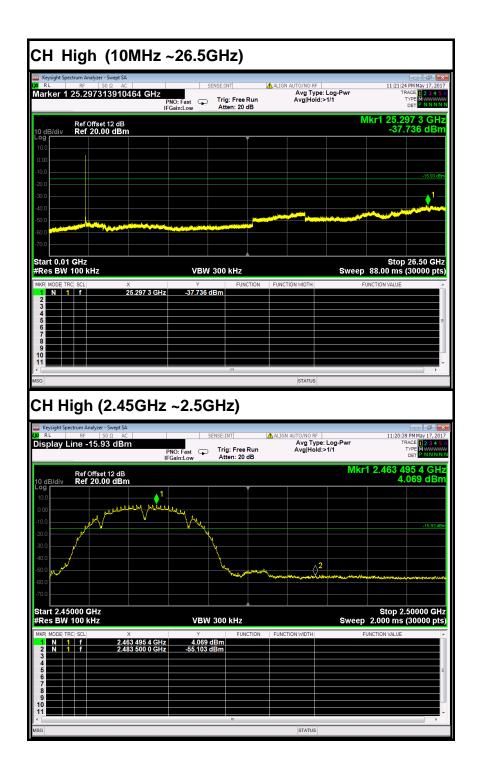




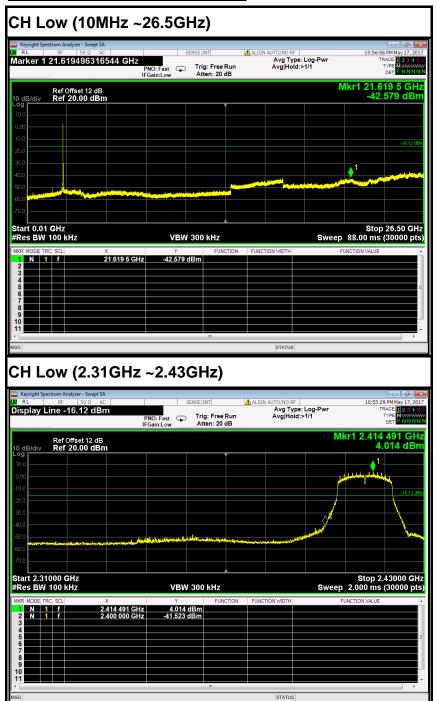
IEEE 802.11b mode (Antenna 2)

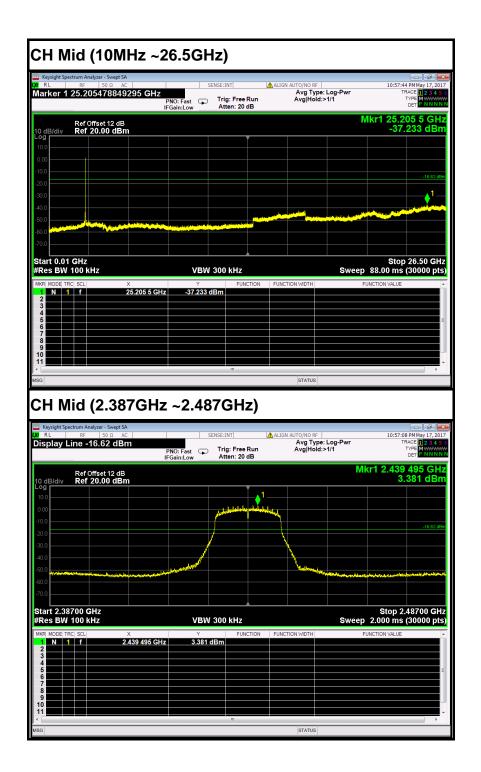


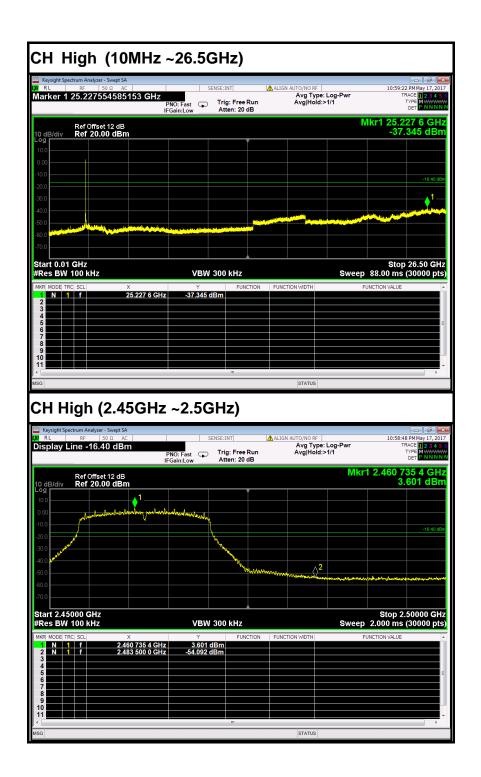




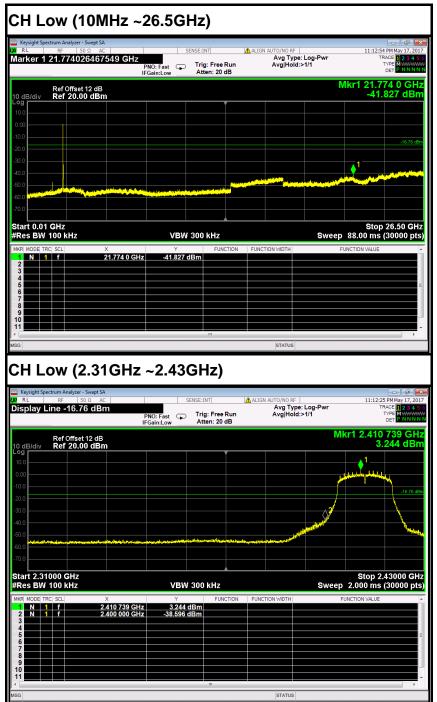
IEEE 802.11g mode (Antenna 1)

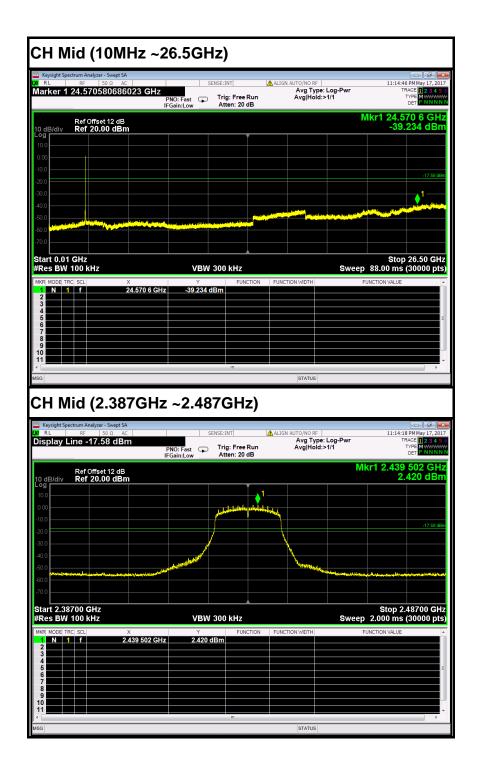


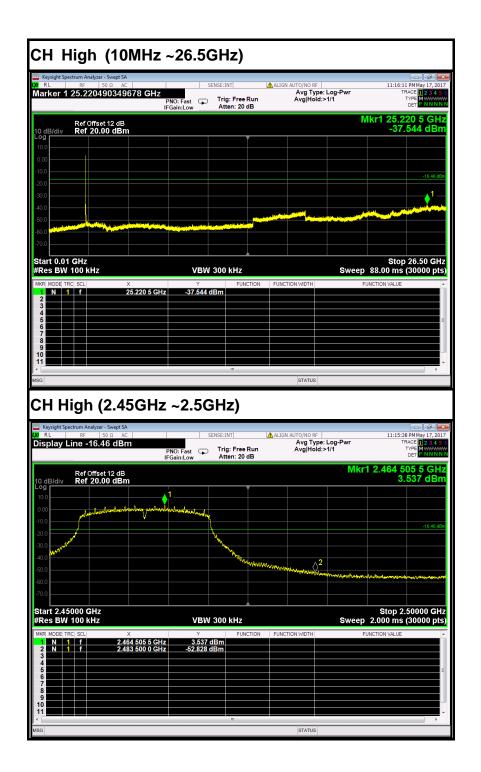




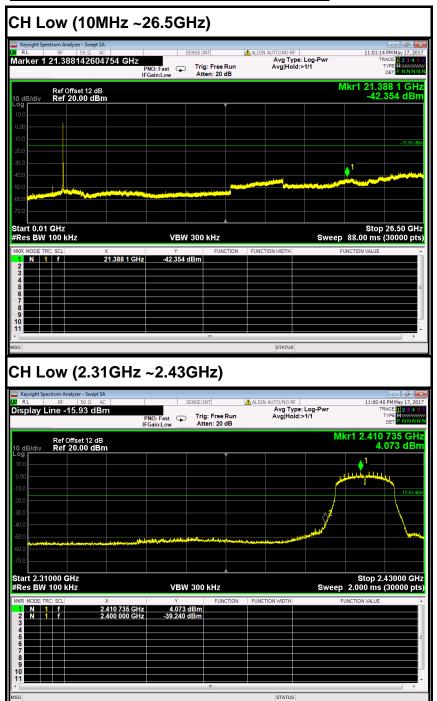
IEEE 802.11g mode (Antenna 2)

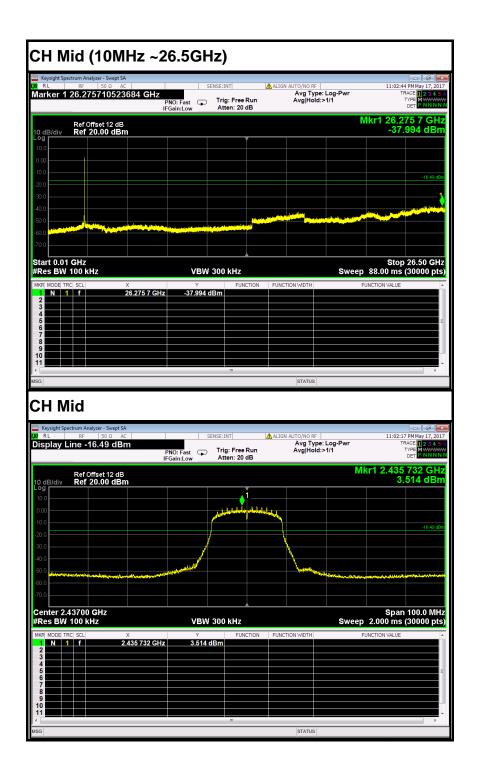


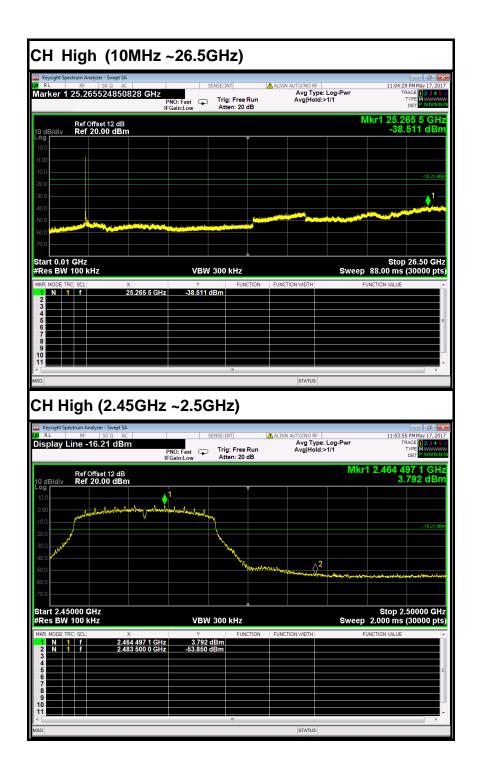




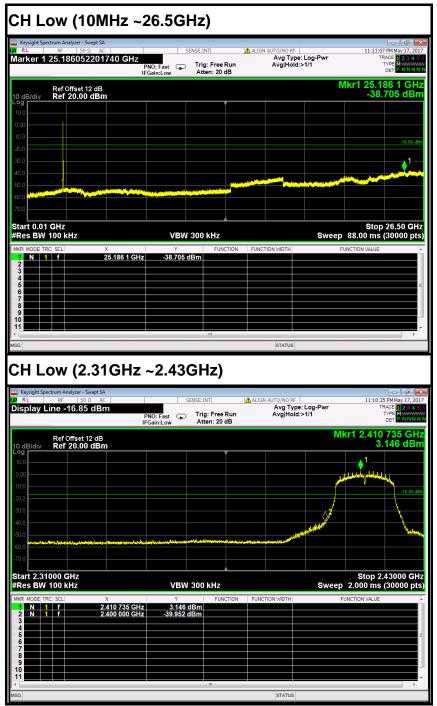
IEEE 802.11n HT20 MHz mode (Antenna 1)

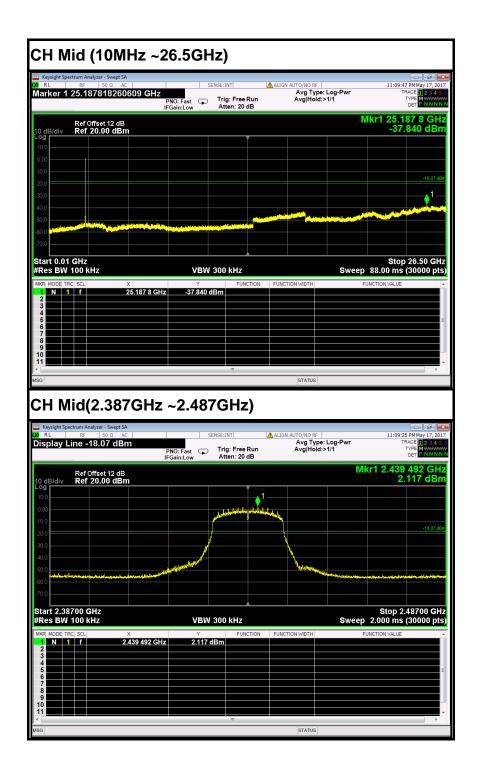


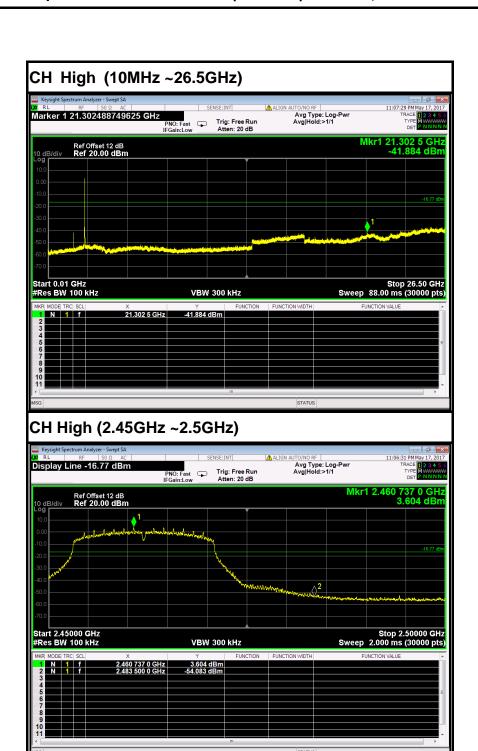




IEEE 802.11n HT20 MHz mode (Antenna 2)







7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

1. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)		
30-88	100	40		
88-216	150	43.5		
216-960	200	46		
Above 960	500	54		

NOTE: (1) The lower limit shall apply at the transition frequencies.

⁽²⁾ Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2.2.2. TEST INSTRUMENTS

	Radiated Eı	mission Test S	Site 966 (2)		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2017	02/20/2018
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2017	02/27/2018
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2017	02/27/2018
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	СТ	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2017	02/20/2018
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2	

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 3. N.C.R = No Calibration Required.

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7.2.2.3. Measuring Instruments and Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.2.2.4. TEST PROCEDURE (please refer to measurement standard)

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 0.8 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

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- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

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- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

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- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Pre measurement:

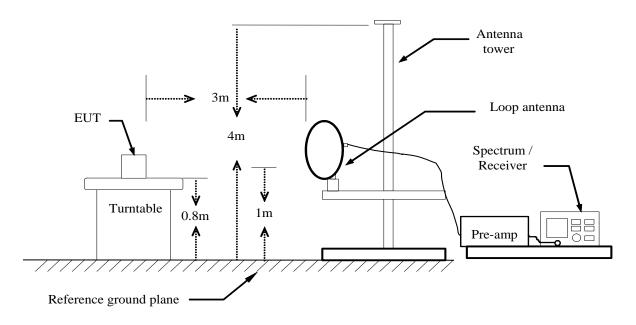
--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

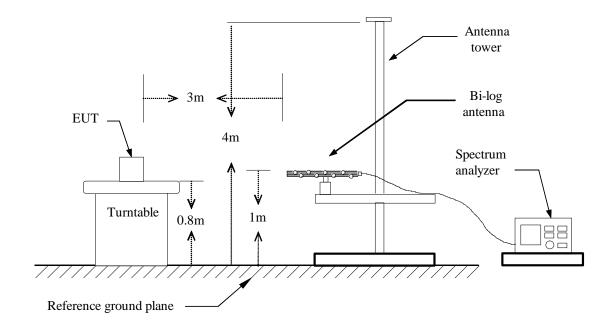
- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

7.2.2.5. TEST SETUP

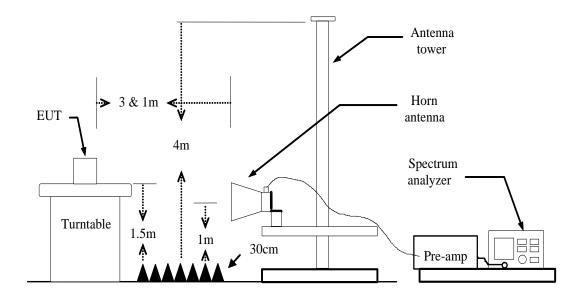
Below 30MHz



Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7.2.2.6. DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

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Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) - Limits (dBuV/m) Result (dBuV/m) = Reading (dBuV) + Correction Factor

7.2.2.7. TEST RESULTS

Below 1 GHz

Test Mode: TX / IEEE 802.11b(CH Low) Tested by: Saber Huang

Report No.: C170228Z06-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH **Date:** March 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
104.6900	56.27	-22.81	33.46	43.50	-10.04	V	QP
275.4100	54.17	-20.44	33.73	46.00	-12.27	V	QP
399.5700	44.55	-16.10	28.45	46.00	-17.55	V	QP
499.4800	41.71	-14.36	27.35	46.00	-18.65	V	QP
600.3600	43.61	-12.86	30.75	46.00	-15.25	V	QP
631.4000	39.98	-12.50	27.48	46.00	-18.52	V	QP
104.6900	54.50	-22.81	31.69	43.50	-11.81	Н	QP
233.7000	52.07	-21.72	30.35	46.00	-15.65	Н	QP
275.4100	51.38	-20.44	30.94	46.00	-15.06	Н	QP
392.7800	49.25	-16.34	32.91	46.00	-13.09	Н	QP
600.3600	41.13	-12.86	28.27	46.00	-17.73	Н	QP
800.1800	40.10	-11.11	28.99	46.00	-17.01	Н	QP

^{**}Remark: 1. No emission found between lowest internal used/generated frequency to 30MHz.

2. Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)

Notes:

- 1. Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

4. Frequency (MHz).

= Emission frequency in MHz

= Receiver reading

Reading (dBµV/m)
Correction Factor (dB)

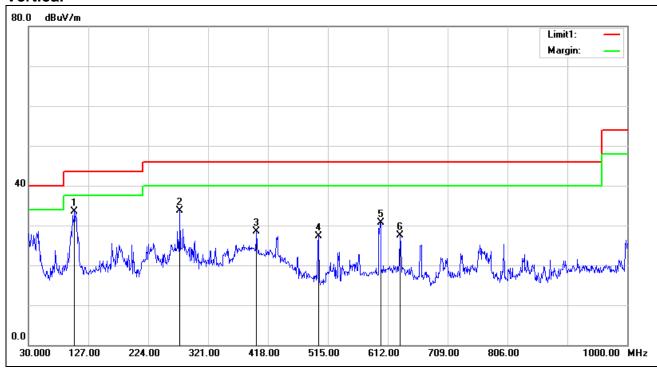
= Antenna factor + Cable loss - Amplifier gain

= Limit stated in standard Limit (dBµV/m)

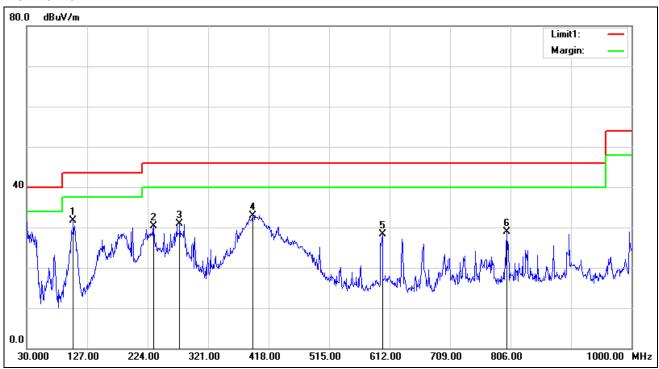
Margin (dB) = Measured $(dB\mu V/m)$ – Limits $(dB\mu V/m)$

Antenna Pol e (H/V) = Current carrying line of reading

Vertical



Horizontal



Above 1 GHz Antenna 1

Test Mode: TX / IEEE 802.11b(CH Low) Tested by: Saber Huang

Report No.: C170228Z06-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2800.000	46.47	-1.72	44.75	74.00	-29.25	V	peak
4204.000	43.48	2.31	45.79	74.00	-28.21	V	peak
4510.000	43.26	3.38	46.64	74.00	-27.36	V	peak
5149.000	43.22	5.25	48.47	74.00	-25.53	V	peak
5464.000	42.74	5.81	48.55	74.00	-25.45	V	peak
6337.000	42.85	6.63	49.48	74.00	-24.52	V	peak
2251.000	46.58	-3.62	42.96	74.00	-31.04	Н	Peak
2521.000	46.50	-2.22	44.28	74.00	-29.72	Н	Peak
3628.000	44.36	0.02	44.38	74.00	-29.62	Н	Peak
4276.000	43.86	2.56	46.42	74.00	-27.58	Н	peak
5077.000	43.68	5.12	48.80	74.00	-25.20	Н	peak
5482.000	43.69	5.84	49.53	74.00	-24.47	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1513.000	47.61	-6.86	40.75	74.00	-33.25	V	Peak
2260.000	46.13	-3.58	42.55	74.00	-31.45	V	Peak
2512.000	47.49	-2.24	45.25	74.00	-28.75	V	Peak
3385.000	43.43	-0.71	42.72	74.00	-31.28	V	Peak
4159.000	42.82	2.15	44.97	74.00	-29.03	V	Peak
5005.000	42.56	4.99	47.55	74.00	-26.45	V	Peak
2530.000	47.55	-2.21	45.34	74.00	-28.66	Н	Peak
2818.000	45.90	-1.69	44.21	74.00	-29.79	Н	Peak
3322.000	44.53	-0.82	43.71	74.00	-30.29	Н	Peak
3907.000	43.62	1.20	44.82	74.00	-29.18	Н	Peak
4474.000	43.24	3.26	46.50	74.00	-27.50	Н	Peak
4861.000	43.52	4.53	48.05	74.00	-25.95	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Saber Huang

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1648.000	47.36	-6.60	40.76	74.00	-33.24	V	Peak
2242.000	46.64	-3.67	42.97	74.00	-31.03	V	Peak
2818.000	44.97	-1.69	43.28	74.00	-30.72	V	Peak
3367.000	43.84	-0.74	43.10	74.00	-30.90	V	Peak
3907.000	43.84	1.20	45.04	74.00	-28.96	V	Peak
4564.000	43.95	3.56	47.51	74.00	-26.49	V	Peak
2242.000	47.15	-3.67	43.48	74.00	-30.52	Н	Peak
2656.000	46.80	-1.98	44.82	74.00	-29.18	Н	Peak
3241.000	44.88	-0.96	43.92	74.00	-30.08	Н	Peak
3826.000	43.19	0.86	44.05	74.00	-29.95	Н	Peak
4294.000	42.60	2.62	45.22	74.00	-28.78	Н	Peak
5320.000	42.51	5.55	48.06	74.00	-25.94	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 2

Test Mode: TX / IEEE 802.11b(CH Low) Tested by: Saber Huang

Report No.: C170228Z06-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1189.000	49.80	-7.83	41.97	74.00	-32.03	V	peak
2503.000	46.32	-2.25	44.07	74.00	-29.93	V	peak
2656.000	45.27	-1.98	43.29	74.00	-30.71	V	peak
4204.000	42.97	2.31	45.28	74.00	-28.72	V	peak
5041.000	42.71	5.05	47.76	74.00	-26.24	V	peak
5671.000	42.03	5.94	47.97	74.00	-26.03	V	peak
2233.000	47.74	-3.72	44.02	74.00	-29.98	Н	Peak
2566.000	47.33	-2.14	45.19	74.00	-28.81	Н	Peak
3619.000	43.86	-0.02	43.84	74.00	-30.16	Н	Peak
4699.000	42.76	4.00	46.76	74.00	-27.24	Н	peak
5518.000	42.50	5.88	48.38	74.00	-25.62	Н	peak
6742.000	43.43	7.28	50.71	74.00	-23.29	Н	peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2251.000	46.66	-3.62	43.04	74.00	-30.96	V	Peak
2800.000	45.90	-1.72	44.18	74.00	-29.82	V	Peak
4294.000	43.67	2.62	46.29	74.00	-27.71	V	Peak
5383.000	42.36	5.66	48.02	74.00	-25.98	V	Peak
5482.000	43.19	5.84	49.03	74.00	-24.97	V	Peak
6769.000	42.71	7.33	50.04	74.00	-23.96	V	Peak
2188.000	47.19	-3.97	43.22	74.00	-30.78	Н	Peak
2512.000	47.01	-2.24	44.77	74.00	-29.23	Н	Peak
2827.000	45.40	-1.67	43.73	74.00	-30.27	Н	Peak
4420.000	43.06	3.07	46.13	74.00	-27.87	Н	Peak
4735.000	42.01	4.12	46.13	74.00	-27.87	Н	Peak
5095.000	43.85	5.15	49.00	74.00	-25.00	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2251.000	46.51	-3.62	42.89	74.00	-31.11	V	Peak
2485.000	45.61	-2.34	43.27	74.00	-30.73	V	Peak
3106.000	43.96	-1.18	42.78	74.00	-31.22	V	Peak
4204.000	44.10	2.31	46.41	74.00	-27.59	V	Peak
4879.000	43.26	4.59	47.85	74.00	-26.15	V	Peak
5104.000	43.28	5.17	48.45	74.00	-25.55	V	Peak
2512.000	45.71	-2.24	43.47	74.00	-30.53	Н	Peak
3673.000	43.41	0.21	43.62	74.00	-30.38	Н	Peak
4006.000	43.94	1.61	45.55	74.00	-28.45	Н	Peak
4735.000	43.06	4.12	47.18	74.00	-26.82	Н	Peak
5122.000	42.09	5.20	47.29	74.00	-26.71	Н	Peak
5365.000	41.79	5.63	47.42	74.00	-26.58	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 1

Test Mode: TX / IEEE 802.11g(CH Low) Tested by: Saber Huang

Report No.: C170228Z06-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2143.000	47.12	-4.22	42.90	74.00	-31.10	V	Peak
2512.000	46.90	-2.24	44.66	74.00	-29.34	V	Peak
3232.000	44.20	-0.97	43.23	74.00	-30.77	V	Peak
3763.000	44.73	0.59	45.32	74.00	-28.68	V	Peak
4411.000	42.55	3.04	45.59	74.00	-28.41	V	Peak
5041.000	43.01	5.05	48.06	74.00	-25.94	V	Peak
2251.000	46.22	-3.62	42.60	74.00	-31.40	Н	Peak
2530.000	46.45	-2.21	44.24	74.00	-29.76	Н	Peak
2926.000	44.22	-1.49	42.73	74.00	-31.27	Н	Peak
3223.000	45.03	-0.99	44.04	74.00	-29.96	Н	Peak
3952.000	44.09	1.39	45.48	74.00	-28.52	Н	Peak
4573.000	43.86	3.59	47.45	74.00	-26.55	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH Mid)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	46.76	-2.17	44.59	74.00	-29.41	V	Peak
3097.000	44.75	-1.20	43.55	74.00	-30.45	V	Peak
3610.000	42.89	-0.06	42.83	74.00	-31.17	V	Peak
4168.000	43.45	2.18	45.63	74.00	-28.37	V	Peak
4519.000	43.16	3.41	46.57	74.00	-27.43	V	Peak
5005.000	43.71	4.99	48.70	74.00	-25.30	V	Peak
2251.000	46.14	-3.62	42.52	74.00	-31.48	Н	Peak
2548.000	46.56	-2.17	44.39	74.00	-29.61	Н	Peak
2890.000	44.41	-1.56	42.85	74.00	-31.15	Н	Peak
3952.000	43.41	1.39	44.80	74.00	-29.20	Н	Peak
4681.000	43.98	3.94	47.92	74.00	-26.08	Н	Peak
5005.000	42.83	4.99	47.82	74.00	-26.18	Н	Peak

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH High)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 2, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2530.000	45.87	-2.21	43.66	74.00	-30.34	V	Peak
2818.000	45.60	-1.69	43.91	74.00	-30.09	V	Peak
3376.000	42.89	-0.73	42.16	74.00	-31.84	V	Peak
3826.000	43.99	0.86	44.85	74.00	-29.15	V	Peak
4492.000	43.36	3.32	46.68	74.00	-27.32	V	Peak
4933.000	42.60	4.76	47.36	74.00	-26.64	V	Peak
1171.000	50.96	-7.90	43.06	74.00	-30.94	Н	Peak
1612.000	46.74	-6.67	40.07	74.00	-33.93	Н	Peak
1765.000	47.21	-6.35	40.86	74.00	-33.14	Н	Peak
2251.000	46.32	-3.62	42.70	74.00	-31.30	Н	Peak
2521.000	47.78	-2.22	45.56	74.00	-28.44	Н	Peak
5077.000	44.50	5.12	49.62	74.00	-24.38	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).