



FCC RF Test Report

APPLICANT : Flo Technologies Inc.
EQUIPMENT : Flo by Moen Cellular Antenna
BRAND NAME : Flo by Moen
MODEL NAME : 920-007
FCC ID : 2AU5H-920007
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Aug. 25, 2020 and testing was completed on Jul. 05, 2021. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 2.91 dB at 2483.98 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 19.61 dB at 0.317 MHz

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Flo Technologies Inc.
3750 S. Robertson Blvd, Suite 202, Culver City, California, 90232, USA

1.2 Manufacturer

Trend Power Limited
Workshop F, 12/F.,Reason Group Tower, 403 Castle Peak Road, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Flo by Moen Cellular Antenna
Brand Name	Flo by Moen
Model Name	920-007
FCC ID	2AU5H-920007
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n (HT20/HT40) Bluetooth v4.1 LE(Uplink Only)
IMEI Code	Conduction: N/A Radiated: N/A
HW Version	D54A15-FLO v1.0
SW Version	D54A15-FLO MPSS: v16.02 APSS: v05.04_OE2.0
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a change in FCC ID report in conjunction with a permissive change, the original FCC ID is NKRD54A1. The change note could be referred to the cover letter (Class II Permissive Change) which is exhibit separately. According to the change, add AC Conducted Emission and verify the conducted power / RSE from original report FR6N0801B.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 17.83 dBm (0.0607 W) 802.11g : 20.36 dBm (0.1086 W) 802.11n HT20 : 21.17 dBm (0.1309 W) 802.11n HT40 : 19.31 dBm (0.0853 W)
Antenna Type / Gain	PCB Antenna with gain 1.00 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Test Mode

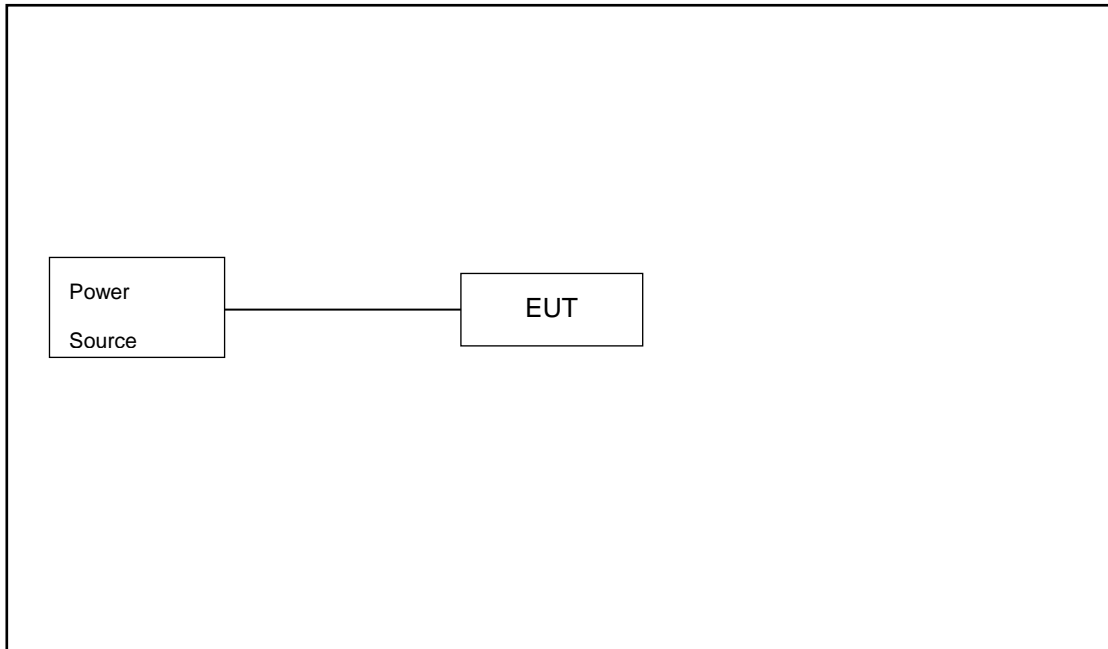
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

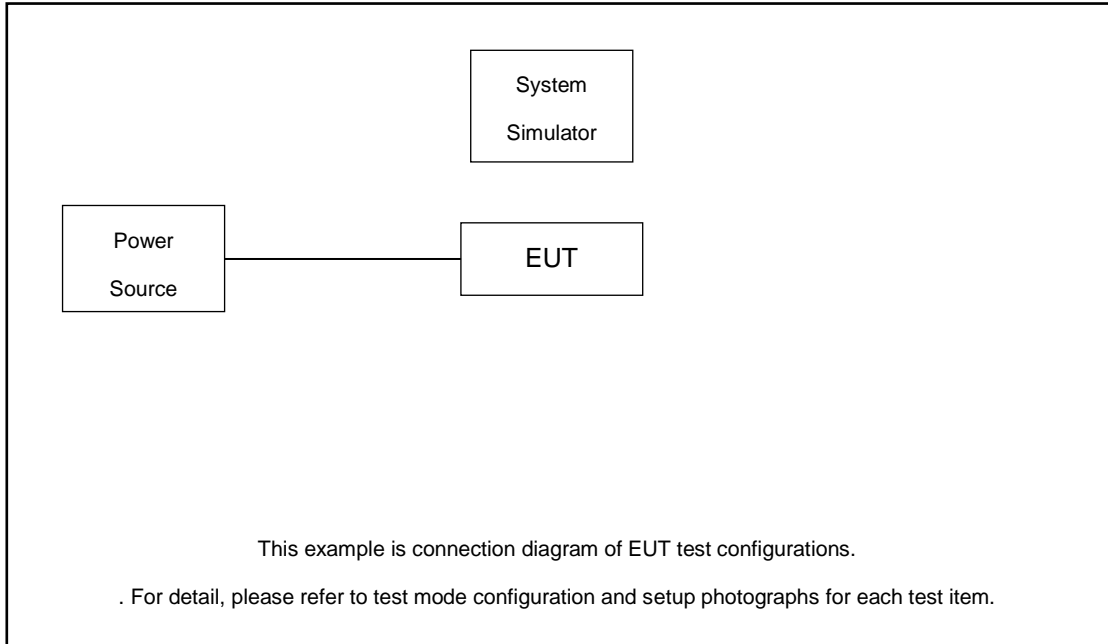
Test Cases	
AC Conducted Emission	Mode 1: LTE Band 5 Link + WIFI Tx + Adaptor
Remark: For Radiated Test Cases, The tests were performance with Adapter.	

2.3 Connection Diagram of Test System

For Radiated Emission:



For AC Conducted Emission





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss.

$Offset = RF\ cable\ loss.$

Following shows an offset computation example with cable loss 5.2 dB.

$Offset(dB) = RF\ cable\ loss(dB).$
 $= 5.2\ (dB)$

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

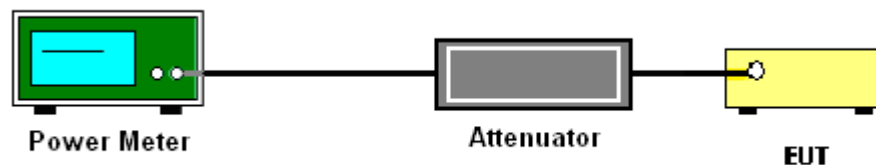
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.2 Method AVGPM-G method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of Peak Output Power

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	17.71	30.00	1.00	18.71	36.00	Pass
11b	1Mbps	1	6	2437	17.69	30.00	1.00	18.69	36.00	Pass
11b	1Mbps	1	11	2462	17.83	30.00	1.00	18.83	36.00	Pass
11g	6Mbps	1	1	2412	20.28	30.00	1.00	21.28	36.00	Pass
11g	6Mbps	1	6	2437	20.36	30.00	1.00	21.36	36.00	Pass
11g	6Mbps	1	10	2457	20.19	30.00	1.00	21.19	36.00	Pass
11g	6Mbps	1	11	2462	16.98	30.00	1.00	17.98	36.00	Pass
HT20	MCS0	1	1	2412	20.82	30.00	1.00	21.82	36.00	Pass
HT20	MCS0	1	6	2437	21.17	30.00	1.00	22.17	36.00	Pass
HT20	MCS0	1	10	2457	21.35	30.00	1.00	22.35	36.00	Pass
HT20	MCS0	1	11	2462	15.82	30.00	1.00	16.82	36.00	Pass
HT40	MCS0	1	3	2422	16.78	30.00	1.00	17.78	36.00	Pass
HT40	MCS0	1	4	2427	19.31	30.00	1.00	20.31	36.00	Pass
HT40	MCS0	1	6	2437	19.14	30.00	1.00	20.14	36.00	Pass
HT40	MCS0	1	8	2447	18.44	30.00	1.00	19.44	36.00	Pass
HT40	MCS0	1	9	2452	14.85	30.00	1.00	15.85	36.00	Pass



3.1.6 Test Result of Average output Power (Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	15.14
11b	1Mbps	1	6	2437	0.00	14.63
11b	1Mbps	1	11	2462	0.00	14.73
11g	6Mbps	1	1	2412	0.24	14.01
11g	6Mbps	1	6	2437	0.24	13.95
11g	6Mbps	1	10	2457	0.24	13.76
11g	6Mbps	1	11	2462	0.24	10.78
HT20	MCS0	1	1	2412	0.32	14.70
HT20	MCS0	1	6	2437	0.32	14.72
HT20	MCS0	1	10	2457	0.32	14.98
HT20	MCS0	1	11	2462	0.32	10.29
HT40	MCS0	1	3	2422	0.57	9.80
HT40	MCS0	1	4	2427	0.57	12.41
HT40	MCS0	1	6	2437	0.57	12.29
HT40	MCS0	1	8	2447	0.57	11.88
HT40	MCS0	1	9	2452	0.57	8.08



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

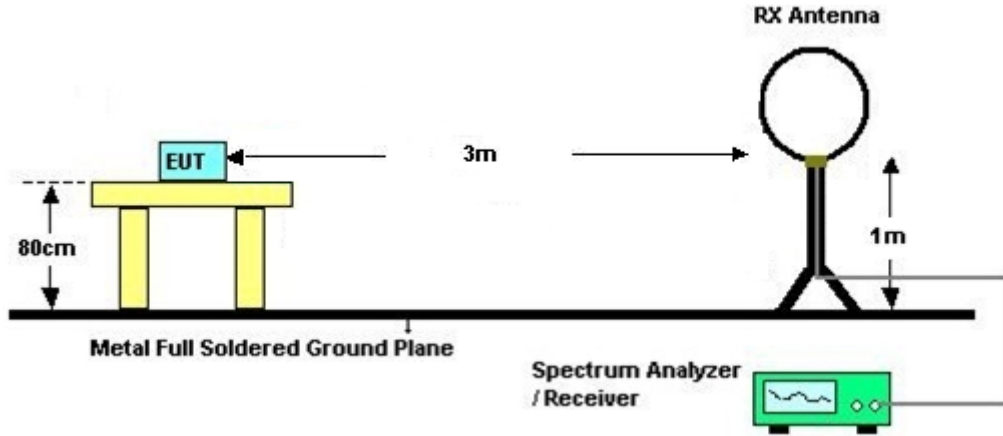


3.2.3 Test Procedures

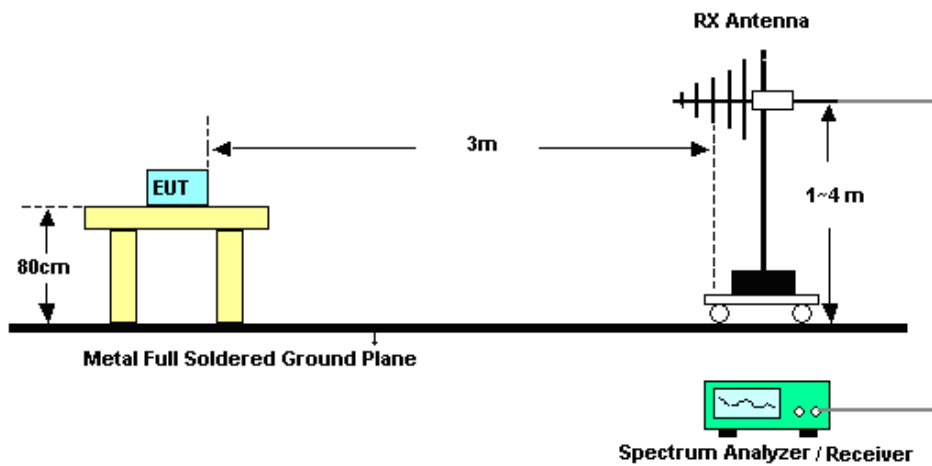
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

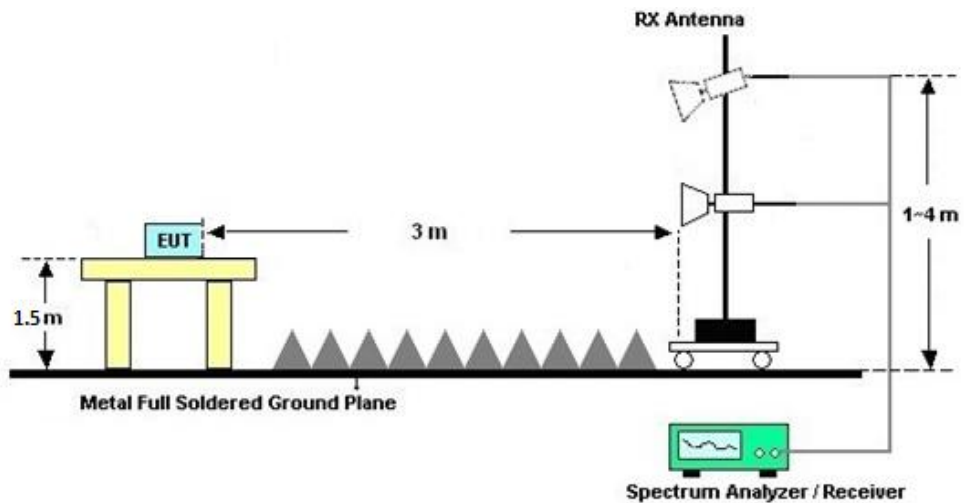
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment 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.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

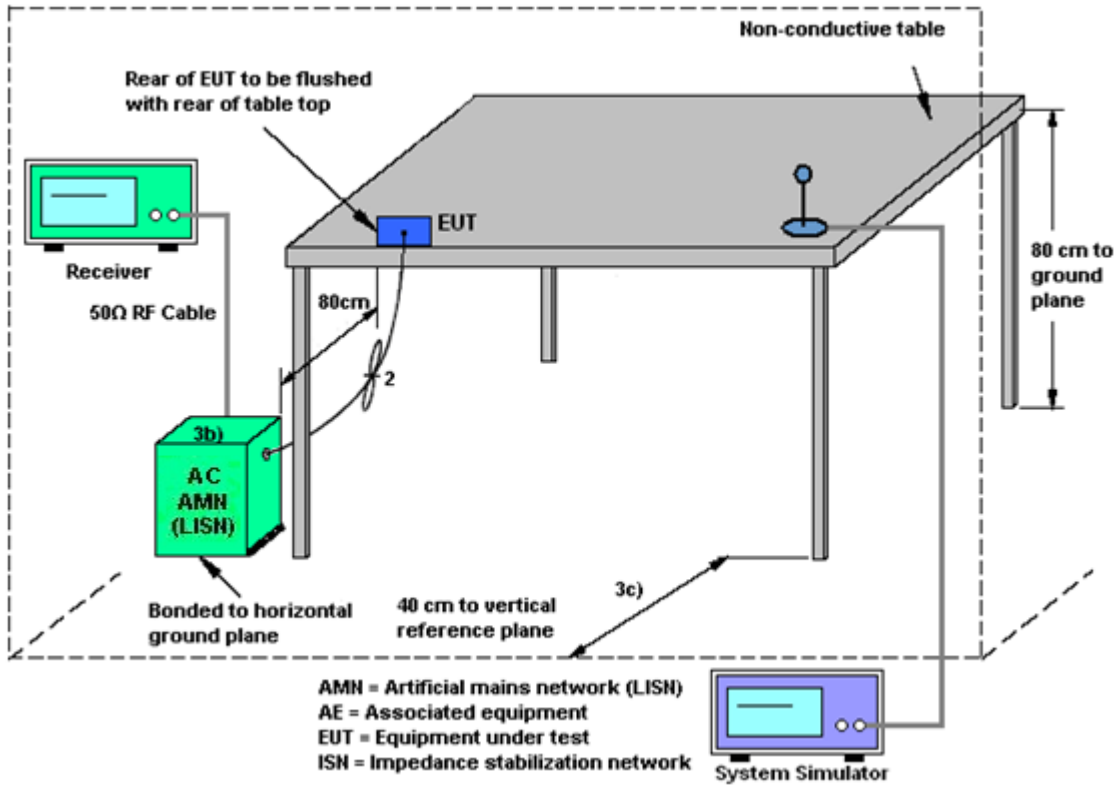
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Oct. 21, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 15, 2020	Oct. 21, 2020	Jan. 14, 2021	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 08, 2020	Oct. 21, 2020	Jan. 07, 2021	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Apr.13, 2020	Oct. 27, 2020	Apr. 12, 2021	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Oct. 27, 2020	Apr. 14, 2021	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	Oct. 27, 2020	Nov. 09, 2020	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2020	Oct. 27, 2020	May 29, 2021	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 26, 2020	Oct. 27, 2020	Apr. 25, 2021	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Oct. 27, 2020	Nov. 09, 2020	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 14, 2020	Oct. 27, 2020	Apr. 13, 2021	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Oct. 27, 2020	Jan. 07, 2021	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Oct. 17, 2020	Oct. 27, 2020	Oct. 16, 2021	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 17, 2020	Oct. 27, 2020	Oct. 16, 2021	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 27, 2020	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 27, 2020	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 27, 2020	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 21, 2021	Jul. 05, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Jul. 05, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 13, 2021	Jul. 05, 2021	Apr. 12, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Jul. 05, 2021	Oct. 16, 2021	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.9dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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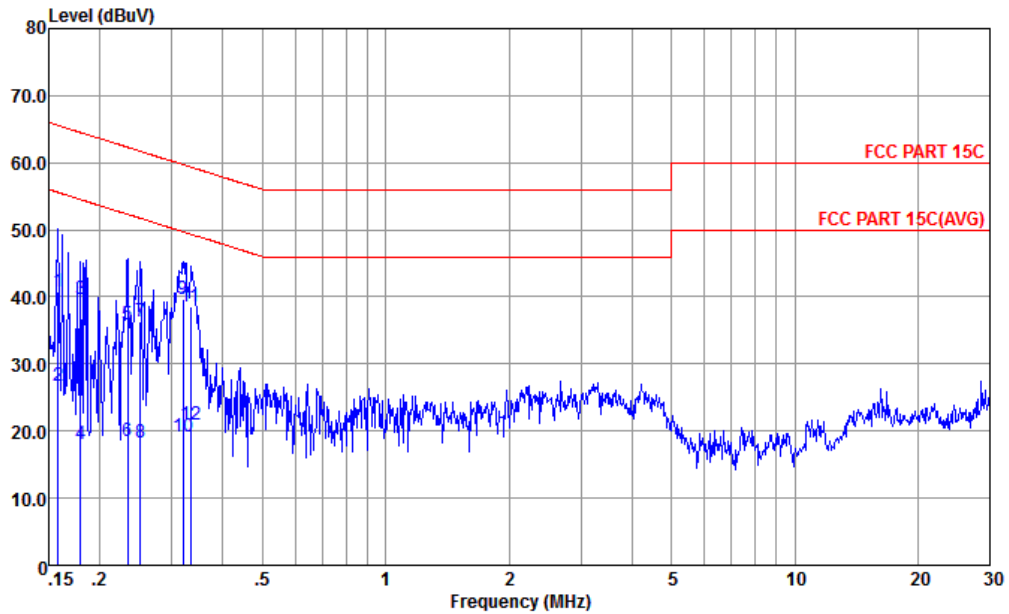
Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Appendix A. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

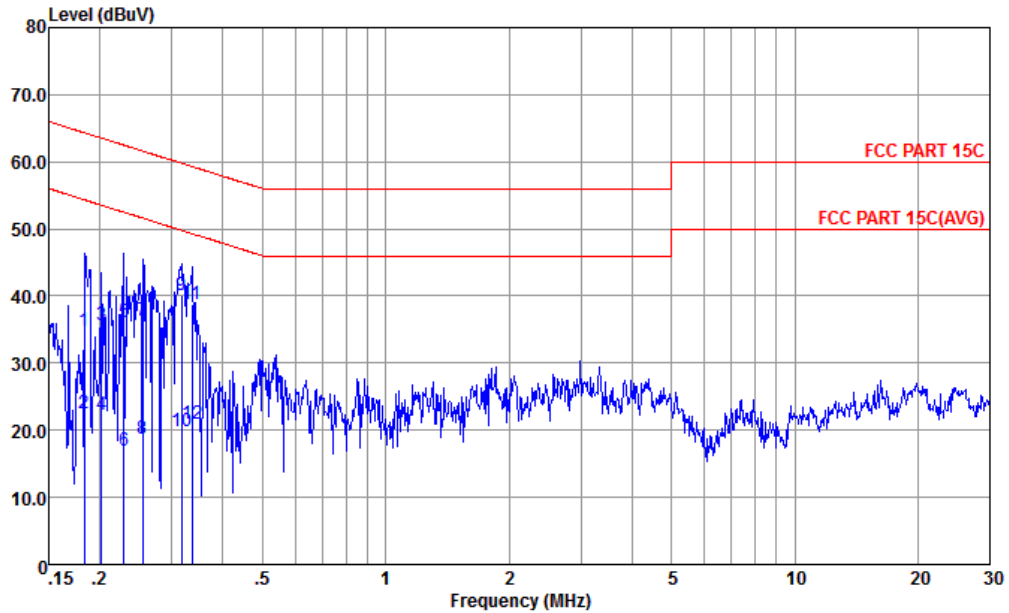


Site : CO01-KS
Condition : FCC PART 15C LISN-L-191028-060105 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.158	40.79	-24.77	65.56	30.30	0.03	10.46	QP
2	0.158	26.69	-28.87	55.56	16.20	0.03	10.46	Average
3	0.180	39.64	-24.86	64.50	29.19	0.04	10.41	QP
4	0.180	17.94	-36.56	54.50	7.49	0.04	10.41	Average
5	0.234	35.99	-26.31	62.30	25.61	0.04	10.34	QP
6	0.234	18.59	-33.71	52.30	8.21	0.04	10.34	Average
7	0.251	36.28	-25.45	61.73	25.91	0.04	10.33	QP
8	0.251	18.18	-33.55	51.73	7.81	0.04	10.33	Average
9 *	0.320	39.65	-20.06	59.71	29.30	0.05	10.30	QP
10	0.320	19.15	-30.56	49.71	8.80	0.05	10.30	Average
11	0.334	38.54	-20.81	59.35	28.20	0.05	10.29	QP
12	0.334	20.94	-28.41	49.35	10.60	0.05	10.29	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15C LISN-N-191028-060105 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.183	34.68	-29.65	64.33	24.20	0.08	10.40	QP
2	0.183	22.58	-31.75	54.33	12.10	0.08	10.40	Average
3	0.202	35.54	-28.00	63.54	25.10	0.08	10.36	QP
4	0.202	22.24	-31.30	53.54	11.80	0.08	10.36	Average
5	0.229	36.03	-26.45	62.48	25.60	0.08	10.35	QP
6	0.229	17.03	-35.45	52.48	6.60	0.08	10.35	Average
7	0.255	36.22	-25.38	61.60	25.80	0.09	10.33	QP
8	0.255	18.72	-32.88	51.60	8.30	0.09	10.33	Average
9 *	0.317	40.19	-19.61	59.80	29.80	0.09	10.30	QP
10	0.317	19.89	-29.91	49.80	9.50	0.09	10.30	Average
11	0.336	38.68	-20.63	59.31	28.30	0.09	10.29	QP
12	0.336	20.98	-28.33	49.31	10.60	0.09	10.29	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.35	51.51	-22.49	74	44.46	31.2	7.5	31.65	106	277	P	H
		2389.95	40.67	-13.33	54	33.62	31.2	7.5	31.65	106	277	A	H
	*	2412	108.71	-	-	101.52	31.31	7.53	31.65	106	277	P	H
	*	2412	105.22	-	-	98.03	31.31	7.53	31.65	106	277	A	H
		2389.43	50.13	-23.87	74	43.08	31.2	7.5	31.65	400	346	P	V
		2388.65	39.66	-14.34	54	32.61	31.2	7.5	31.65	400	346	A	V
	*	2412	105.09	-	-	97.9	31.31	7.53	31.65	400	346	P	V
	*	2412	101.72	-	-	94.53	31.31	7.53	31.65	400	346	A	V
802.11b CH 06 2437MHz		2389.43	53.14	-20.86	74	46.09	31.2	7.5	31.65	274	257	P	H
		2389.95	42.98	-11.02	54	35.93	31.2	7.5	31.65	274	257	A	H
	*	2436	108.49	-	-	101.11	31.43	7.56	31.61	274	257	P	H
	*	2436	105.16	-	-	97.78	31.43	7.56	31.61	274	257	A	H
		2484.76	56.02	-17.98	74	48.19	31.77	7.64	31.58	274	257	P	H
		2484.52	44.32	-9.68	54	36.49	31.77	7.64	31.58	274	257	A	H
		2356.41	49.08	-24.92	74	42.13	31.18	7.44	31.67	389	331	P	V
		2389.95	38.23	-15.77	54	31.18	31.2	7.5	31.65	389	331	A	V
	*	2436	103.64	-	-	96.26	31.43	7.56	31.61	389	331	P	V
	*	2436	100.21	-	-	92.83	31.43	7.56	31.61	389	331	A	V
		2485.18	51.23	-22.77	74	43.4	31.77	7.64	31.58	389	331	P	V
	2483.62	40.62	-13.38	54	32.79	31.77	7.64	31.58	389	331	A	V	



802.11b CH 11 2462MHz		2486.68	60.5	-13.5	74	52.32	32.12	7.64	31.58	114	267	P	H
	!	2486.74	50.22	-3.78	54	42.04	32.12	7.64	31.58	114	267	A	H
	*	2462	111.16	-	-	103.02	32.13	7.61	31.6	114	267	P	H
	*	2462	107.63	-	-	99.49	32.13	7.61	31.6	114	267	A	H
		2485.96	58.03	-15.97	74	49.85	32.12	7.64	31.58	339	325	P	V
	!	2484.64	48	-6	54	39.82	32.12	7.64	31.58	339	325	A	V
	*	2464	105.08	-	-	96.94	32.13	7.61	31.6	339	325	P	V
	*	2464	101.84	-	-	93.7	32.13	7.61	31.6	339	325	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	46.14	-27.86	74	61.66	33.72	10.8	60.04	300	0	P	H
		4824	44.52	-29.48	74	60.04	33.72	10.8	60.04	300	360	P	V
802.11b CH 06 2437MHz		4872	46.88	-27.12	74	62.27	33.77	10.87	60.03	300	0	P	H
		7308	42.63	-31.37	74	53.9	35.86	13.38	60.51	300	0	P	H
		4872	45.83	-28.17	74	61.22	33.77	10.87	60.03	300	360	P	V
		7308	42.77	-31.23	74	54.04	35.86	13.38	60.51	300	360	P	V
802.11b CH 11 2462MHz		4926	48.89	-25.11	74	64.15	33.82	10.94	60.02	100	250	P	H
		4926	45.25	-8.75	54	60.51	33.82	10.94	60.02	100	250	A	H
		7386	42.49	-31.51	74	53.55	36.01	13.46	60.53	300	0	P	H
		4926	44.42	-29.58	74	59.68	33.82	10.94	60.02	300	360	P	V
		7386	42.83	-31.17	74	53.89	36.01	13.46	60.53	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11g CH 01 (2412MHz) and 802.11g CH 06 (2437MHz).



802.11g CH 10 2457MHz	*	2493.28	59.16	-14.84	74	51.16	31.89	7.67	31.56	157	256	P	H
	*	2489.62	48.51	-5.49	54	40.53	31.89	7.67	31.58	157	256	A	H
		2458	109.92	-	-	102.25	31.66	7.61	31.6	157	256	P	H
	!	2460	101.51	-	-	93.84	31.66	7.61	31.6	157	256	A	H
	*	2486.62	54.86	-19.14	74	47.03	31.77	7.64	31.58	389	304	P	V
	*	2484.1	44.43	-9.57	54	36.6	31.77	7.64	31.58	389	304	A	V
		2454	105.43	-	-	97.76	31.66	7.61	31.6	389	304	P	V
		2458	96.79	-	-	89.12	31.66	7.61	31.6	389	304	A	V
802.11g CH 11 2462MHz	*	2466	106.53	-	-	98.39	32.13	7.61	31.6	100	248	P	H
	*	2466	98.65	-	-	90.51	32.13	7.61	31.6	100	248	A	H
		2483.5	60.46	-13.54	74	52.28	32.12	7.64	31.58	100	248	P	H
	!	2483.5	50.4	-3.6	54	42.22	32.12	7.64	31.58	100	248	A	H
	*	2468	103.38	-	-	95.24	32.13	7.61	31.6	388	341	P	V
	*	2464	94.96	-	-	86.82	32.13	7.61	31.6	388	341	A	V
		2483.5	57.06	-16.94	74	48.88	32.12	7.64	31.58	388	341	P	V
		2483.5	45.94	-8.06	54	37.76	32.12	7.64	31.58	388	341	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	43.67	-30.33	74	59.19	33.72	10.8	60.04	300	0	P	H
		4824	42.37	-31.63	74	57.89	33.72	10.8	60.04	300	360	P	V
802.11g CH 06 2437MHz		4872	42.29	-31.71	74	57.68	33.77	10.87	60.03	300	0	P	H
		7308	42.32	-31.68	74	53.59	35.86	13.38	60.51	300	0	P	H
		4872	43.31	-30.69	74	58.7	33.77	10.87	60.03	300	360	P	V
		7308	42.71	-31.29	74	53.98	35.86	13.38	60.51	300	360	P	V
802.11g CH 10 2457MHz		4914	49.71	-24.29	74	65.02	33.8	10.91	60.02	100	360	P	H
		7368	42.69	-31.31	74	53.79	35.98	13.45	60.53	100	360	P	H
		4914	46.75	-27.25	74	62.06	33.8	10.91	60.02	100	360	P	V
		7368	42.76	-31.24	74	53.86	35.98	13.45	60.53	100	360	P	V
802.11g CH 11 2462MHz		4926	45.62	-28.38	74	60.34	34.36	10.94	60.02	300	0	P	H
		7386	42.68	-31.32	74	53.83	35.92	13.46	60.53	300	0	P	H
		4926	43.09	-30.91	74	57.81	34.36	10.94	60.02	300	360	P	V
		7386	42.26	-31.74	74	53.41	35.92	13.46	60.53	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT20 CH 01 (2412MHz) and 802.11n HT20 CH 06 (2437MHz).



802.11n HT20 CH 10 2457MHz	*	2486.62	58.41	-15.59	74	50.58	31.77	7.64	31.58	157	241	P	H
	*	2483.5	47.92	-6.08	54	40.09	31.77	7.64	31.58	157	241	A	H
		2456	108.78	-	-	101.11	31.66	7.61	31.6	157	241	P	H
	!	2454	100.5	-	-	92.83	31.66	7.61	31.6	157	241	A	H
	*	2484.46	56.99	-17.01	74	49.16	31.77	7.64	31.58	384	305	P	V
	*	2483.5	46.27	-7.73	54	38.44	31.77	7.64	31.58	384	305	A	V
		2462	105.7	-	-	98.03	31.66	7.61	31.6	384	305	P	V
		2460	97.22	-	-	89.55	31.66	7.61	31.6	384	305	A	V
802.11n HT20 CH 11 2462MHz	*	2464	106.62	-	-	98.95	31.66	7.61	31.6	135	265	P	H
	*	2466	98.05	-	-	90.38	31.66	7.61	31.6	135	265	A	H
		2483.98	61.07	-12.93	74	53.24	31.77	7.64	31.58	135	265	P	H
	!	2483.5	50.87	-3.13	54	43.04	31.77	7.64	31.58	135	265	A	H
	*	2466	101.2	-	-	93.53	31.66	7.61	31.6	347	83	P	V
	*	2466	93.07	-	-	85.4	31.66	7.61	31.6	347	83	A	V
		2483.56	57.3	-16.7	74	49.47	31.77	7.64	31.58	347	83	P	V
		2483.68	47.51	-6.49	54	39.68	31.77	7.64	31.58	347	83	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	43.8	-30.2	74	59.32	33.72	10.8	60.04	300	0	P	H
		4824	41.75	-32.25	74	57.27	33.72	10.8	60.04	300	360	P	V
802.11n HT20 CH 06 2437MHz		4872	42.93	-31.07	74	58.32	33.77	10.87	60.03	300	0	P	H
		7308	41.89	-32.11	74	53.16	35.86	13.38	60.51	300	0	P	H
		4872	42.36	-31.64	74	57.75	33.77	10.87	60.03	300	360	P	V
		7308	42.3	-31.7	74	53.57	35.86	13.38	60.51	300	360	P	V
802.11n HT20 CH 10 2457MHz		4914	50.57	-23.43	74	65.88	33.8	10.91	60.02	100	360	P	H
		7368	43.1	-30.9	74	54.2	35.98	13.45	60.53	100	360	P	H
		4914	48.57	-25.43	74	63.88	33.8	10.91	60.02	100	360	P	V
		7368	42.28	-31.72	74	53.38	35.98	13.45	60.53	100	360	P	V
802.11n HT20 CH 11 2462MHz		4926	44.83	-29.17	74	60.09	33.82	10.94	60.02	300	0	P	H
		7386	42.95	-31.05	74	54.01	36.01	13.46	60.53	300	0	P	H
		4926	41.07	-32.93	74	56.33	33.82	10.94	60.02	300	360	P	V
		7386	42.11	-31.89	74	53.17	36.01	13.46	60.53	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2388.26	64.59	-9.41	74	57.54	31.2	7.5	31.65	354	277	P	H
		2389.69	45.87	-8.13	54	38.82	31.2	7.5	31.65	354	277	A	H
	*	2414	102.75	-	-	95.56	31.31	7.53	31.65	354	277	P	H
	*	2414	94.46	-	-	87.27	31.31	7.53	31.65	354	277	A	H
		2498.92	53.72	-20.28	74	45.72	31.89	7.67	31.56	354	277	P	H
		2483.56	41.26	-12.74	54	33.43	31.77	7.64	31.58	354	277	A	H
		2389.43	60.55	-13.45	74	53.5	31.2	7.5	31.65	392	346	P	V
		2389.82	42.6	-11.4	54	35.55	31.2	7.5	31.65	392	346	A	V
	*	2414	99.35	-	-	92.16	31.31	7.53	31.65	392	346	P	V
	*	2412	90.73	-	-	83.54	31.31	7.53	31.65	392	346	A	V
		2497.9	50.58	-23.42	74	42.58	31.89	7.67	31.56	392	346	P	V
		2488.06	40.04	-13.96	54	32.06	31.89	7.67	31.58	392	346	A	V
802.11n HT40 CH 06 2437MHz		2389.95	65.64	-8.36	74	58.59	31.2	7.5	31.65	162	276	P	H
	!	2389.95	49.98	-4.02	54	42.93	31.2	7.5	31.65	162	276	A	H
	*	2430	105.15	-	-	97.79	31.43	7.56	31.63	162	276	P	H
	*	2426	96.97	-	-	89.61	31.43	7.56	31.63	162	276	A	H
		2483.5	65.55	-8.45	74	57.72	31.77	7.64	31.58	162	276	P	H
	!	2483.74	50.35	-3.65	54	42.52	31.77	7.64	31.58	162	276	A	H
		2389.69	60.82	-13.18	74	53.77	31.2	7.5	31.65	387	348	P	V
		2389.82	44.36	-9.64	54	37.31	31.2	7.5	31.65	387	348	A	V
	*	2426	101.73	-	-	94.37	31.43	7.56	31.63	387	348	P	V
	*	2428	93.03	-	-	85.67	31.43	7.56	31.63	387	348	A	V
		2488.78	57.5	-16.5	74	49.52	31.89	7.67	31.58	387	348	P	V
		2483.5	43.61	-10.39	54	35.78	31.77	7.64	31.58	387	348	A	V



802.11n HT40 CH 08 2447MHz		2389.43	63	-11	74	55.95	31.2	7.5	31.65	100	255	P	H
		2389.3	43.54	-10.46	54	36.49	31.2	7.5	31.65	100	255	A	H
	*	2486.98	65.2	-8.8	74	57.37	31.77	7.64	31.58	100	255	P	H
	*	2483.98	51.09	-2.91	54	43.26	31.77	7.64	31.58	100	255	A	H
		2434	102.36	-	-	95	31.43	7.56	31.63	100	255	P	H
	!	2436	93.98	-	-	86.6	31.43	7.56	31.61	100	255	A	H
		2389.82	54.06	-19.94	74	47.01	31.2	7.5	31.65	389	332	P	V
		2388.78	39.61	-14.39	54	32.56	31.2	7.5	31.65	389	332	A	V
	*	2487.22	59.54	-14.46	74	51.71	31.77	7.64	31.58	389	332	P	V
	*	2483.68	44.61	-9.39	54	36.78	31.77	7.64	31.58	389	332	A	V
		2438	97.96	-	-	90.45	31.54	7.58	31.61	389	332	P	V
	!	2440	90.36	-	-	82.85	31.54	7.58	31.61	389	332	A	V
802.11n HT40 CH 09 2452MHz		2389.56	60.88	-13.12	74	53.83	31.2	7.5	31.65	244	277	P	H
		2389.43	41.9	-12.1	54	34.85	31.2	7.5	31.65	244	277	A	H
	*	2444	100.95	-	-	93.44	31.54	7.58	31.61	244	277	P	H
	*	2444	92.92	-	-	85.41	31.54	7.58	31.61	244	277	A	H
		2484.4	65.43	-8.57	74	57.6	31.77	7.64	31.58	244	277	P	H
	!	2483.62	50.28	-3.72	54	42.45	31.77	7.64	31.58	244	277	A	H
		2378.77	49.89	-24.11	74	42.88	31.19	7.47	31.65	384	317	P	V
		2377.99	38.5	-15.5	54	31.49	31.19	7.47	31.65	384	317	A	V
	*	2462	97.96	-	-	90.29	31.66	7.61	31.6	384	317	P	V
	*	2460	89.84	-	-	82.17	31.66	7.61	31.6	384	317	A	V
	2485.78	63.55	-10.45	74	55.72	31.77	7.64	31.58	384	317	P	V	
!	2483.5	50.16	-3.84	54	42.33	31.77	7.64	31.58	384	317	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4842	39.87	-34.13	74	55.35	33.73	10.82	60.03	300	0	P	H
HT40		7266	42.3	-31.7	74	53.66	35.8	13.35	60.51	300	0	P	H
CH 03		4842	40.43	-33.57	74	55.91	33.73	10.82	60.03	300	360	P	V
2422MHz		7266	42.01	-31.99	74	53.37	35.8	13.35	60.51	300	360	P	V
802.11n		4872	39.74	-34.26	74	55.13	33.77	10.87	60.03	300	0	P	H
HT40		7308	41.83	-32.17	74	53.1	35.86	13.38	60.51	300	0	P	H
CH 06		4872	39.82	-34.18	74	55.21	33.77	10.87	60.03	300	360	P	V
2437MHz		7308	42.69	-31.31	74	53.96	35.86	13.38	60.51	300	360	P	V
802.11n		4896	40.77	-33.23	74	56.12	33.78	10.89	60.02	100	360	P	H
HT40		7341	42.9	-31.1	74	54.09	35.92	13.41	60.52	100	360	P	H
CH 08		4896	39.98	-34.02	74	55.33	33.78	10.89	60.02	100	360	P	V
2447MHz		7344	42.53	-31.47	74	53.72	35.92	13.41	60.52	100	360	P	V
802.11n		4902	40.31	-33.69	74	55.62	33.8	10.91	60.02	300	0	P	H
HT40		7356	42.78	-31.22	74	53.92	35.95	13.43	60.52	300	0	P	H
CH 09		4902	40.19	-33.81	74	55.5	33.8	10.91	60.02	300	360	P	V
2452MHz		7356	42.29	-31.71	74	53.43	35.95	13.43	60.52	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		51.34	21.42	-18.58	40	37.85	14.15	1.62	32.2	-	-	P	H
		124.09	25.3	-18.2	43.5	37.34	17.6	2.51	32.15	100	15	P	H
		156.1	24.64	-18.86	43.5	37.18	16.74	2.82	32.1	-	-	P	H
		178.41	23.61	-19.89	43.5	37.49	15.21	3.01	32.1	-	-	P	H
		650.8	25.64	-20.36	46	25.6	26.5	5.74	32.2	-	-	P	H
		981.57	29.52	-24.48	54	23.87	30.75	7.04	32.14	-	-	P	H
		32.91	32.38	-7.62	40	39.77	23.51	1.3	32.2	-	-	P	V
		51.34	34.38	-5.62	40	50.81	14.15	1.62	32.2	100	0	P	V
		125.06	28.26	-15.24	43.5	40.29	17.6	2.52	32.15	-	-	P	V
		136.7	27.14	-16.36	43.5	39.1	17.53	2.64	32.13	-	-	P	V
		176.47	22.34	-21.16	43.5	36.12	15.32	3	32.1	-	-	P	V
	844.8	27.36	-18.64	46	24.03	29.19	6.53	32.39	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

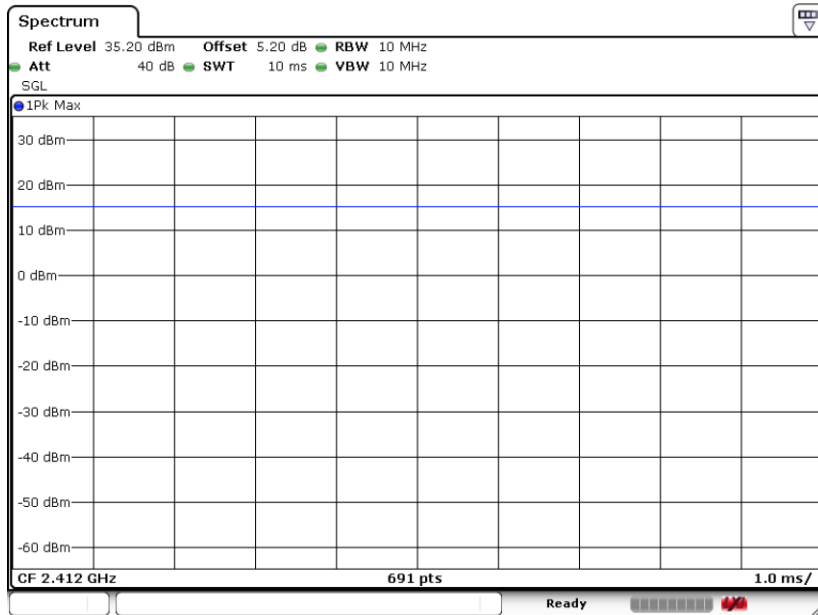
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C. Duty Cycle Plots

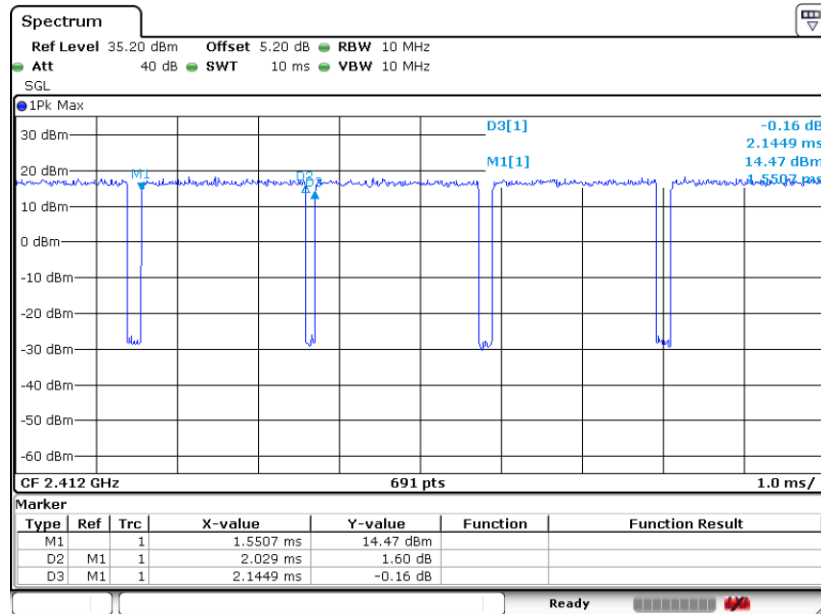
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	94.60	2.029	0.493	0.51kHz
802.11n HT20	92.91	1.899	0.527	0.56KHz
802.11n HT40	87.67	0.928	1.078	1.1KHz

802.11b

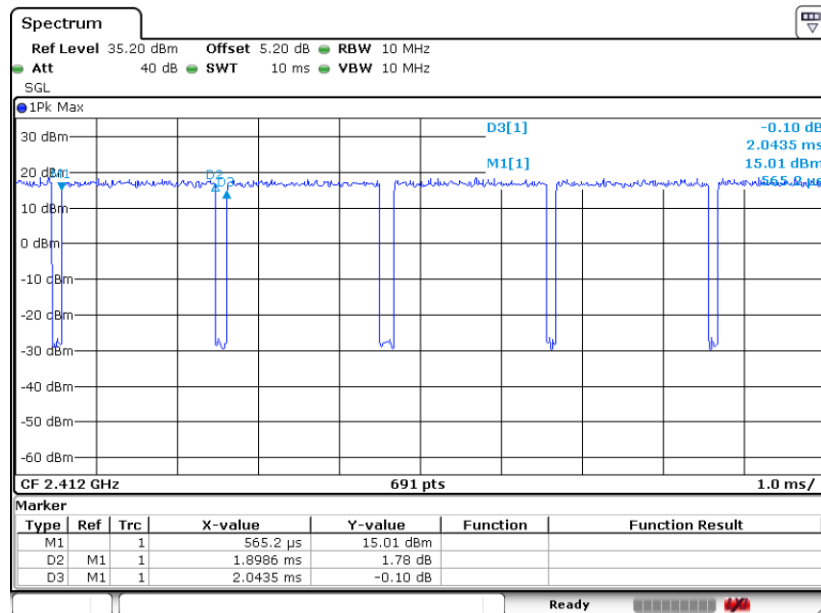




802.11g



802.11n HT20





802.11n HT40

