



FCC RF Test Report

APPLICANT : Espressif Systems (Shanghai) Co.,Ltd.
EQUIPMENT : 2.4GHz Wi-Fi & BT IoT Module
BRAND NAME : ESPRESSIF
MODEL NAME : ESP8685-WROOM-07
FCC ID : 2AC7Z-ESP868507
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Aug. 17, 2022 ~ Oct. 13, 2022

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

**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(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.21 dB at 2483.500 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.20 dB at 0.158 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits.
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

Espressif Systems (Shanghai) Co.,Ltd.

Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

1.2 Manufacturer

Espressif Systems (Shanghai) Co.,Ltd.

Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	2.4GHz Wi-Fi & BT IoT Module
Brand Name	ESPRESSIF
Model Name	ESP8685-WROOM-07
FCC ID	2AC7Z-ESP868507
HW Version	V1.0
SW Version	v1.1.3.4
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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 : 17.80 dBm (0.0603 W) 802.11g : 24.38 dBm (0.2742 W) 802.11n HT20 : 24.31 dBm (0.2698 W) 802.11n HT40 : 24.24 dBm (0.2655 W)
99% Occupied Bandwidth	802.11b : 13.19MHz 802.11g : 19.08MHz 802.11n HT20 : 19.38MHz 802.11n HT40 : 34.57MHz
Antenna Type / Gain	PCB Antenna type with gain 2.33 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 Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
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	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24
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: All test items were verified and recorded according to the standards and without any deviation during the test.



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

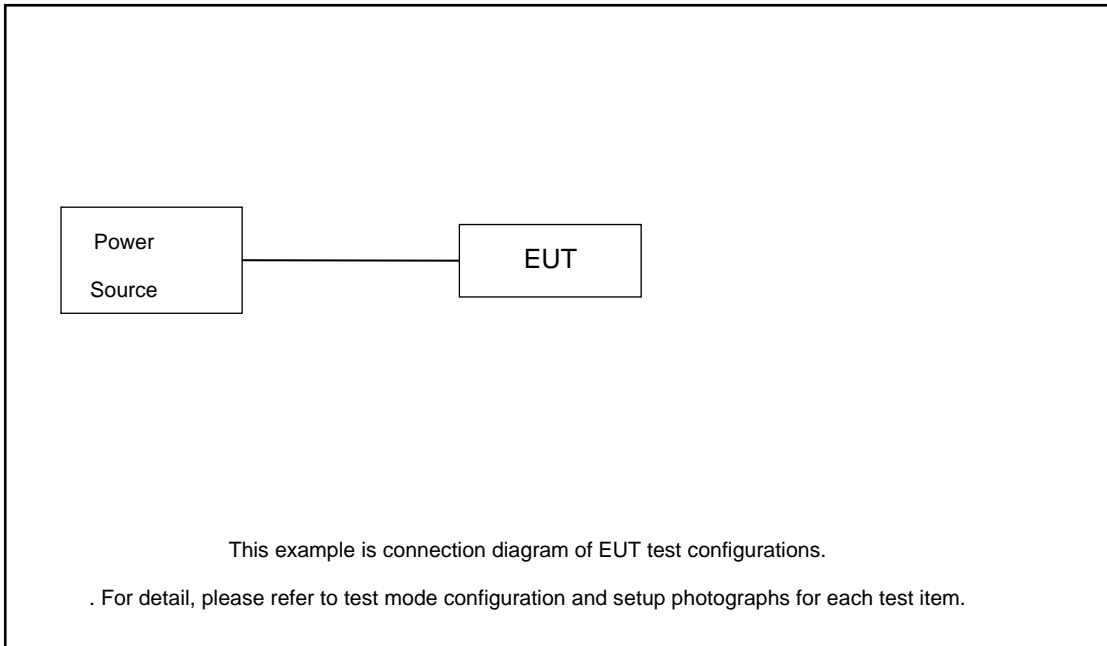
Final test modes are considering the modulation and worse data rates as below table.

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

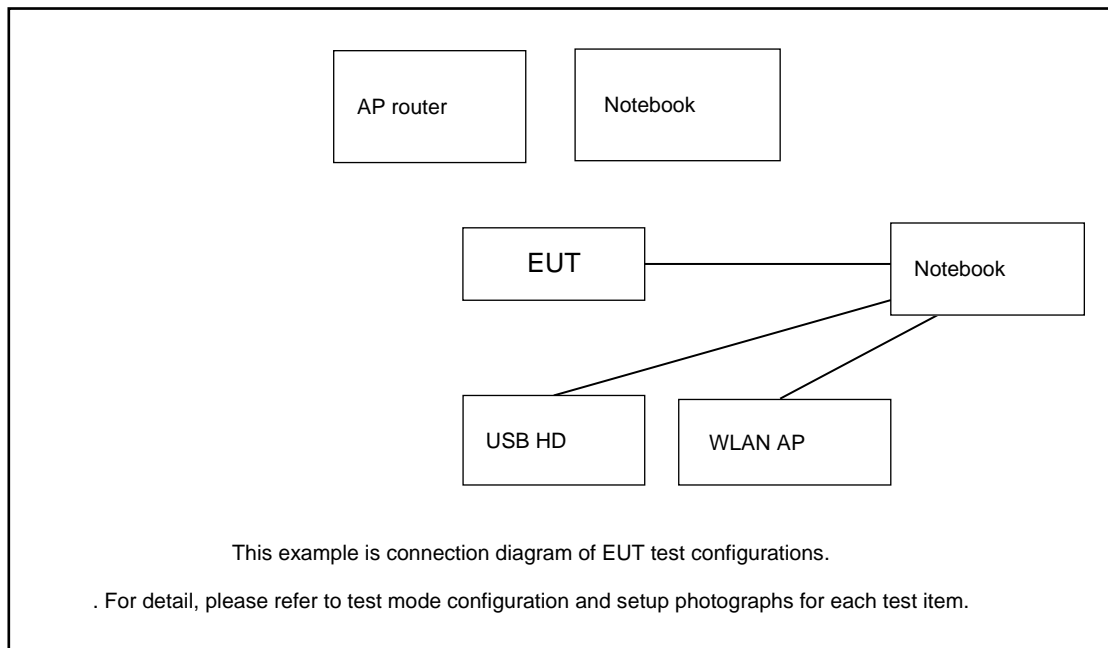
Test Cases	
AC Conducted Emission	Mode 1 :Bluetooth Link + WLAN Link(2.4G) + Notebook Charging
Remark: For Radiated Test Cases, The tests were performed with Notebook.	

2.3 Connection Diagram of Test System

< Radiated Emission >



< 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.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
2.	Notebook	Lenovo	V130-14IKB004	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
3.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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 and attenuator factor 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

$$\text{Offset} = \text{RF cable loss}$$

Following shows an offset computation example with cable loss 5.40 dB

$$\begin{aligned} \text{Offset}(dB) &= \text{RF cable loss}(dB) \\ &= 5.40(dB) \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

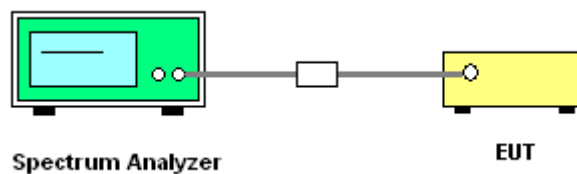
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

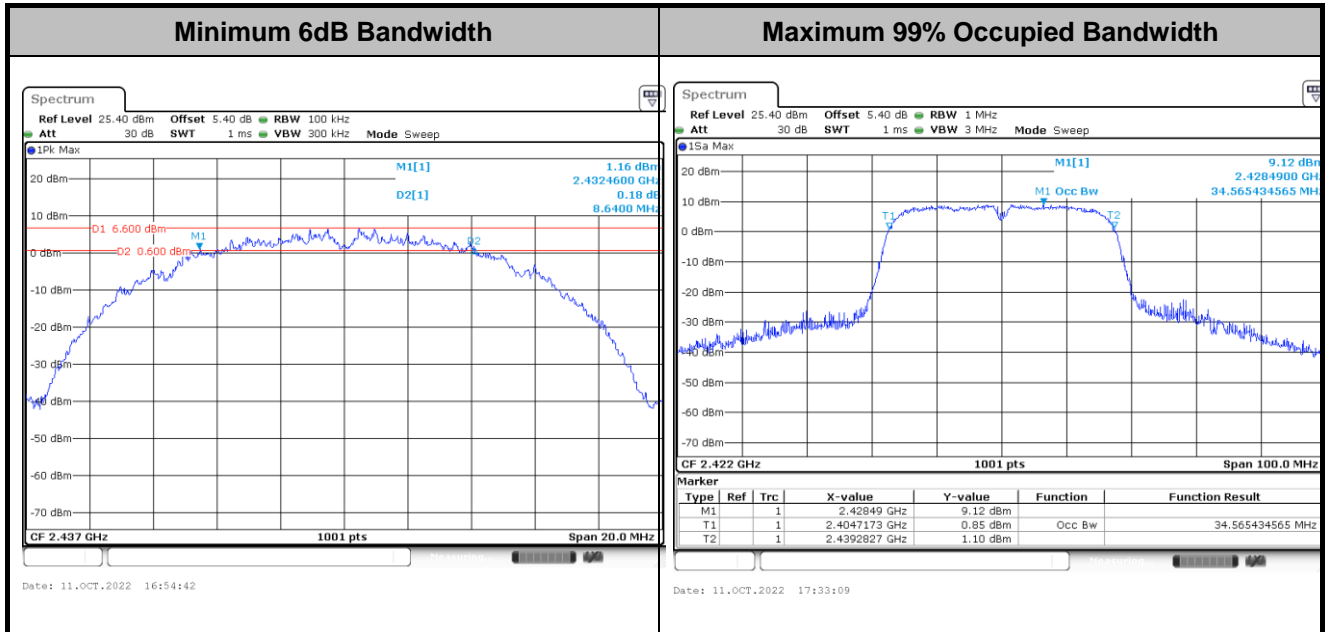
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 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.

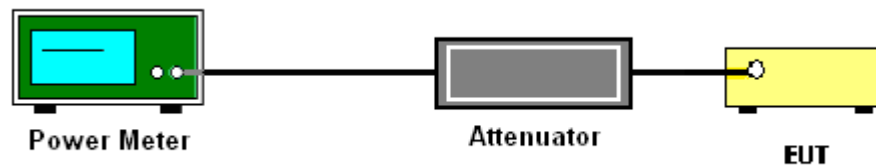
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM 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.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

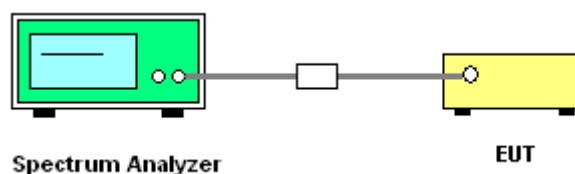
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

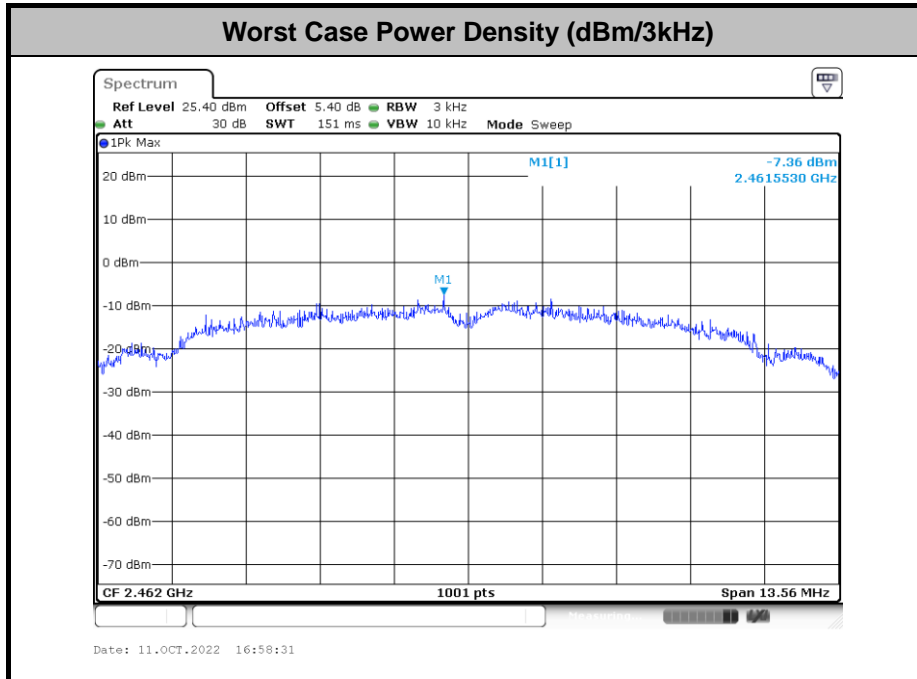
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

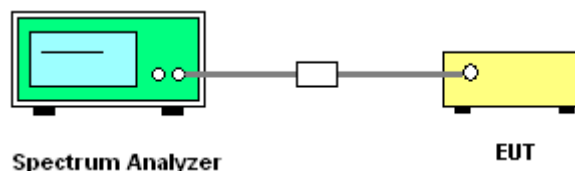
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer 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. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

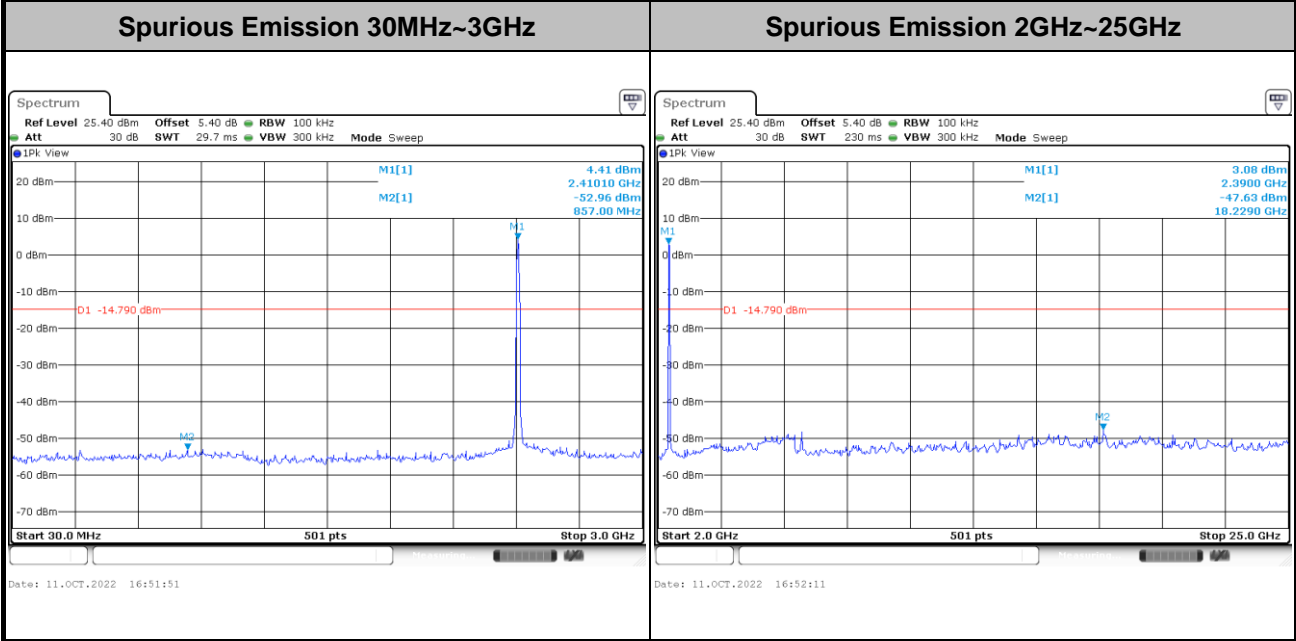
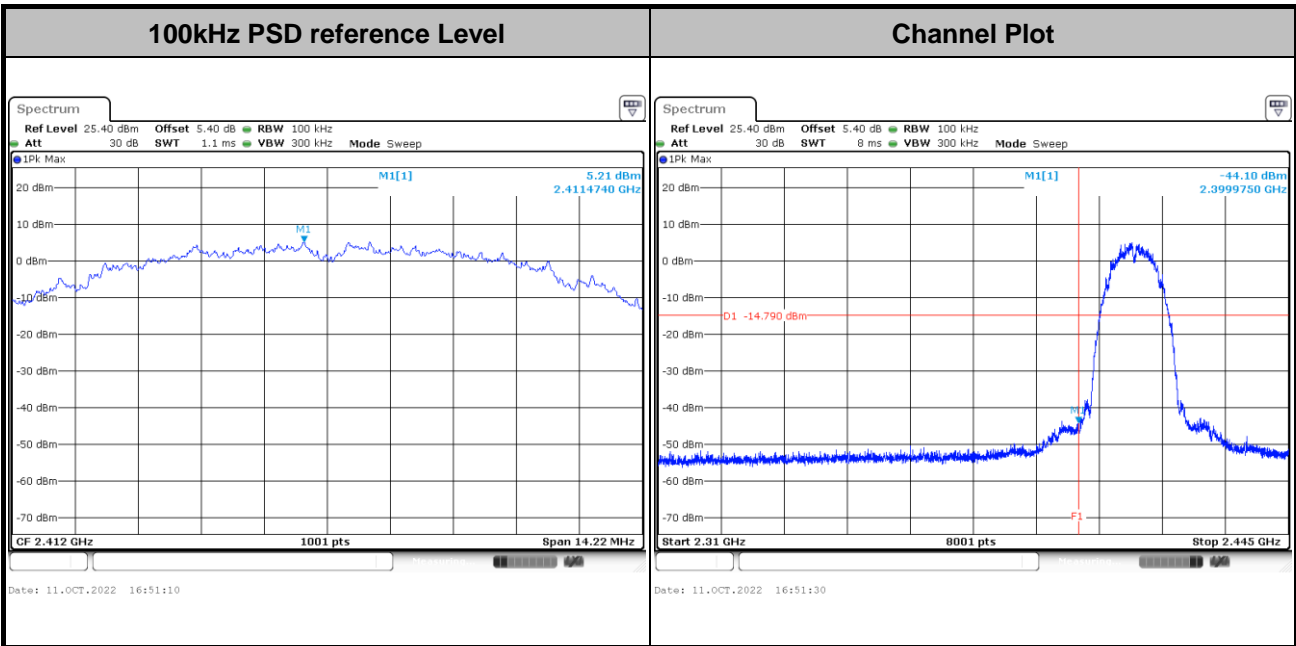




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

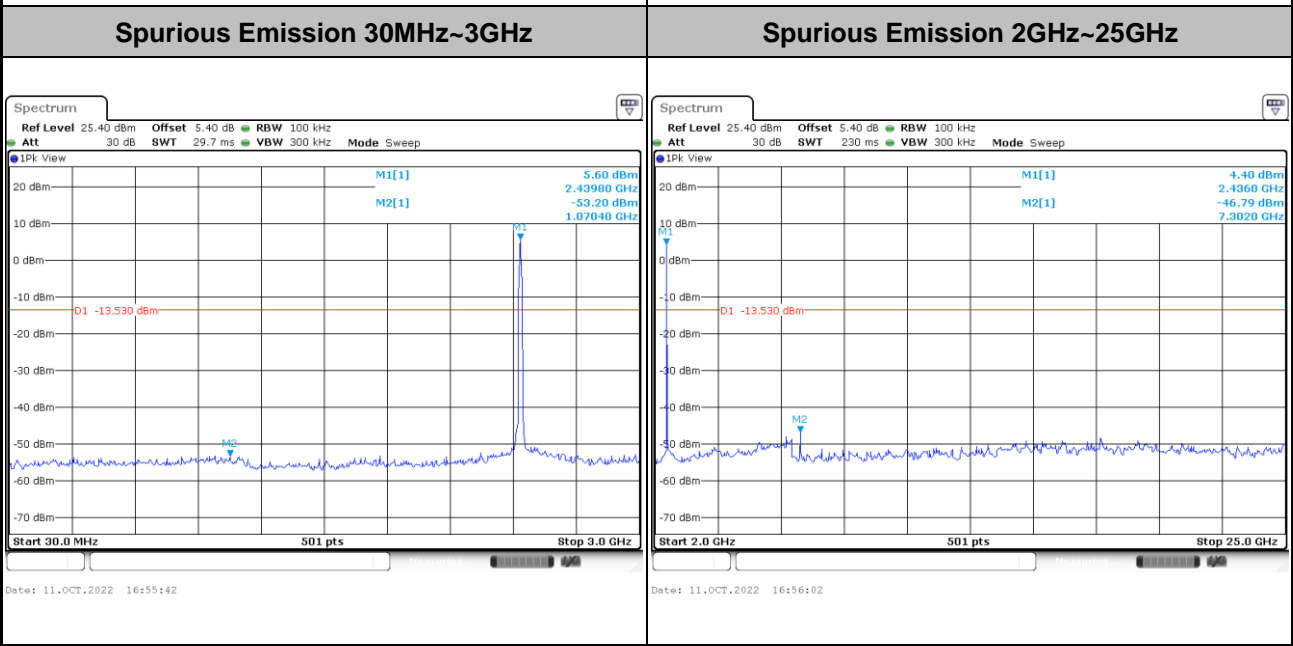
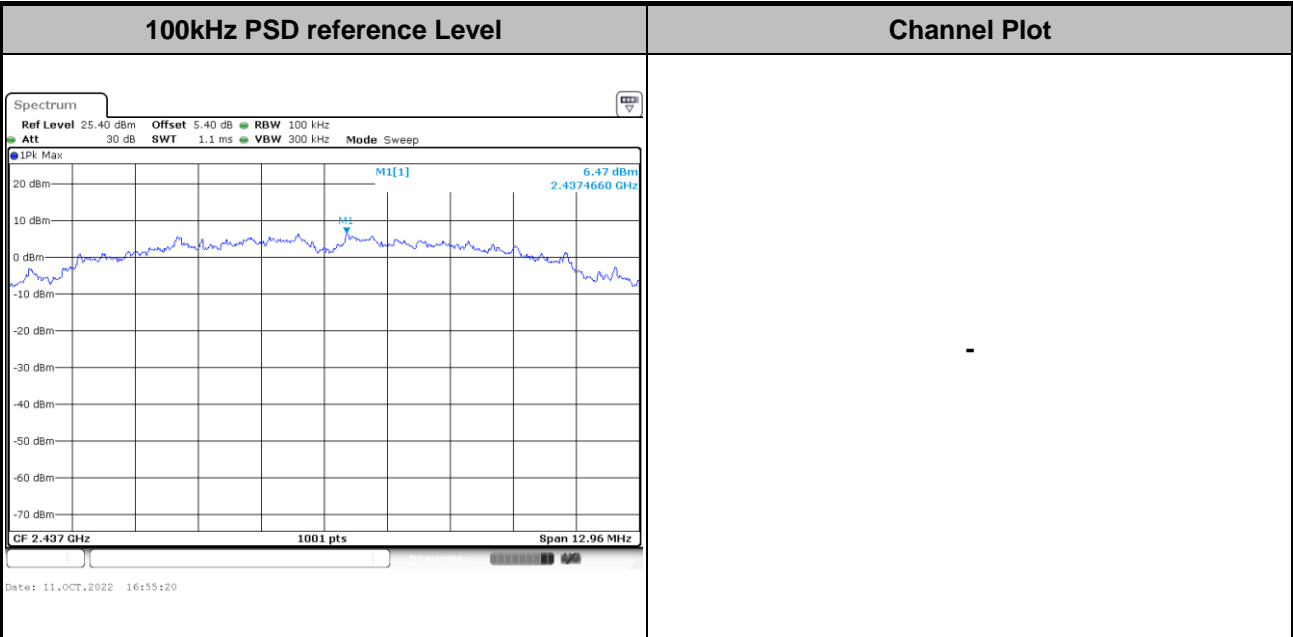
Test Engineer : Kib Shi	Temperature :	21~25°C
	Relative Humidity :	51~54%

Test Mode :	802.11b	Test Channel :	01
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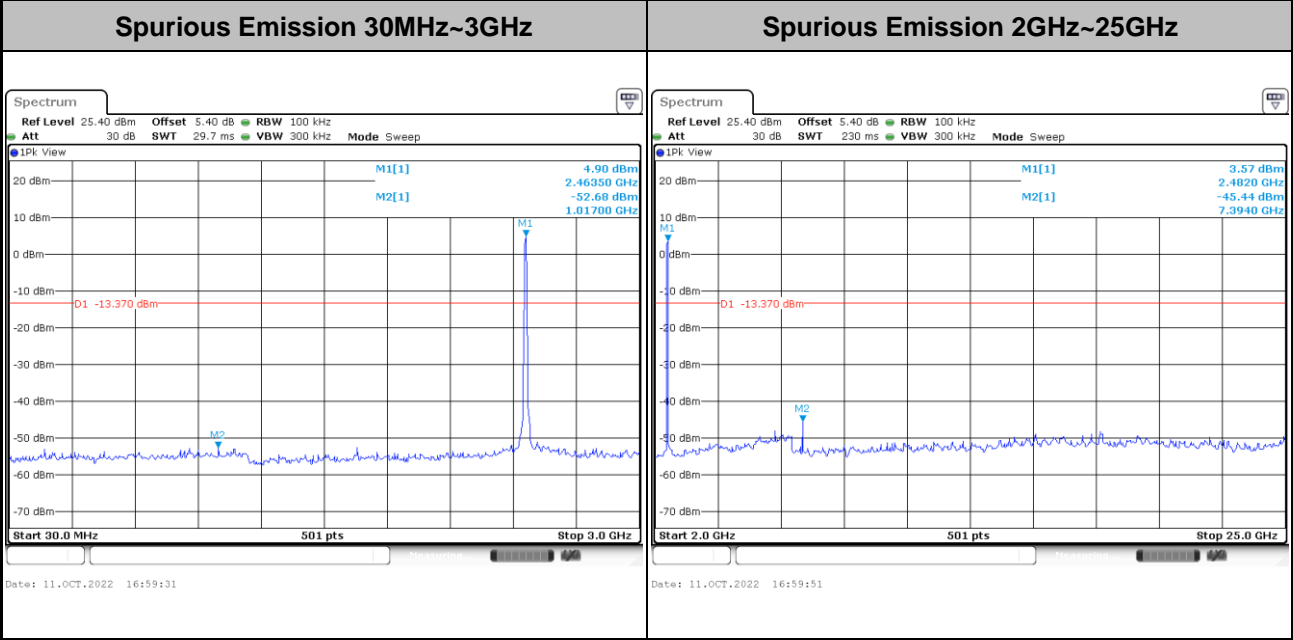
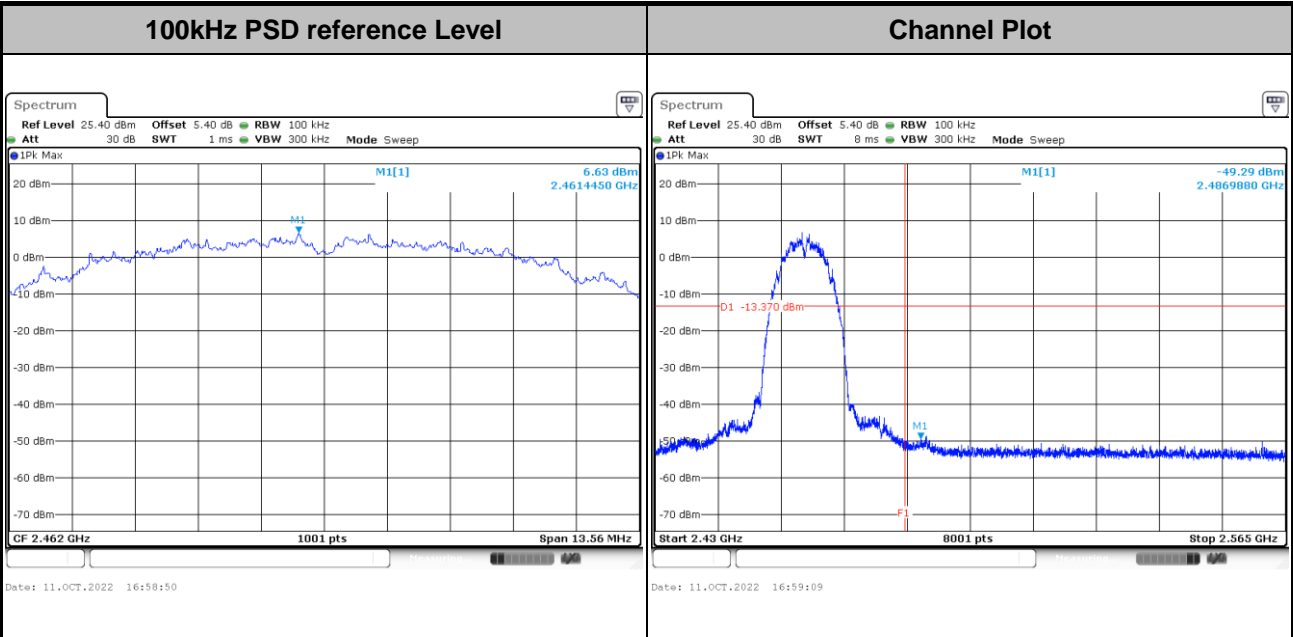


Test Mode :	802.11b	Test Channel :	06
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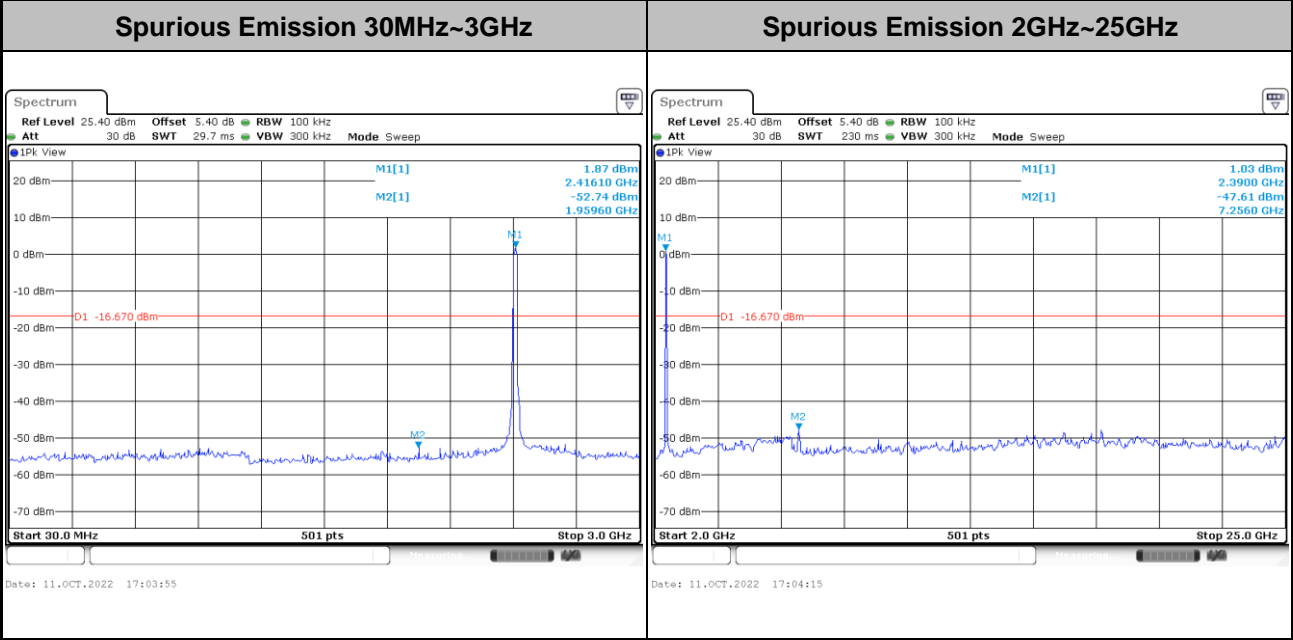
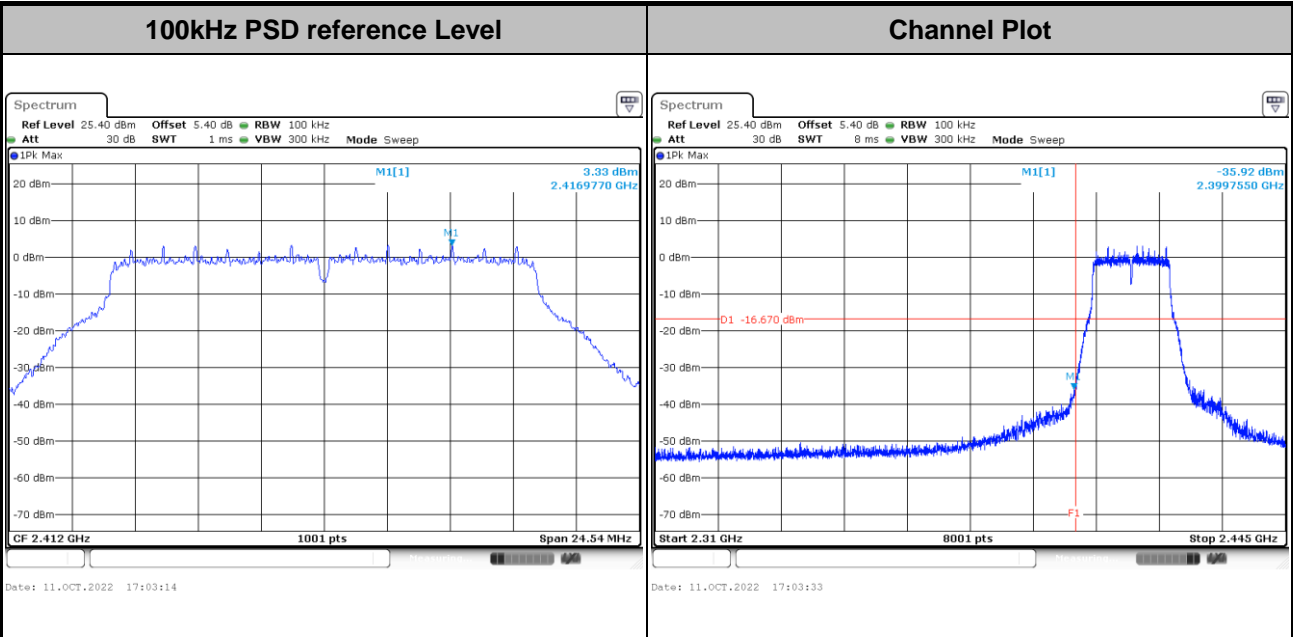


Test Mode :	802.11b	Test Channel :	11
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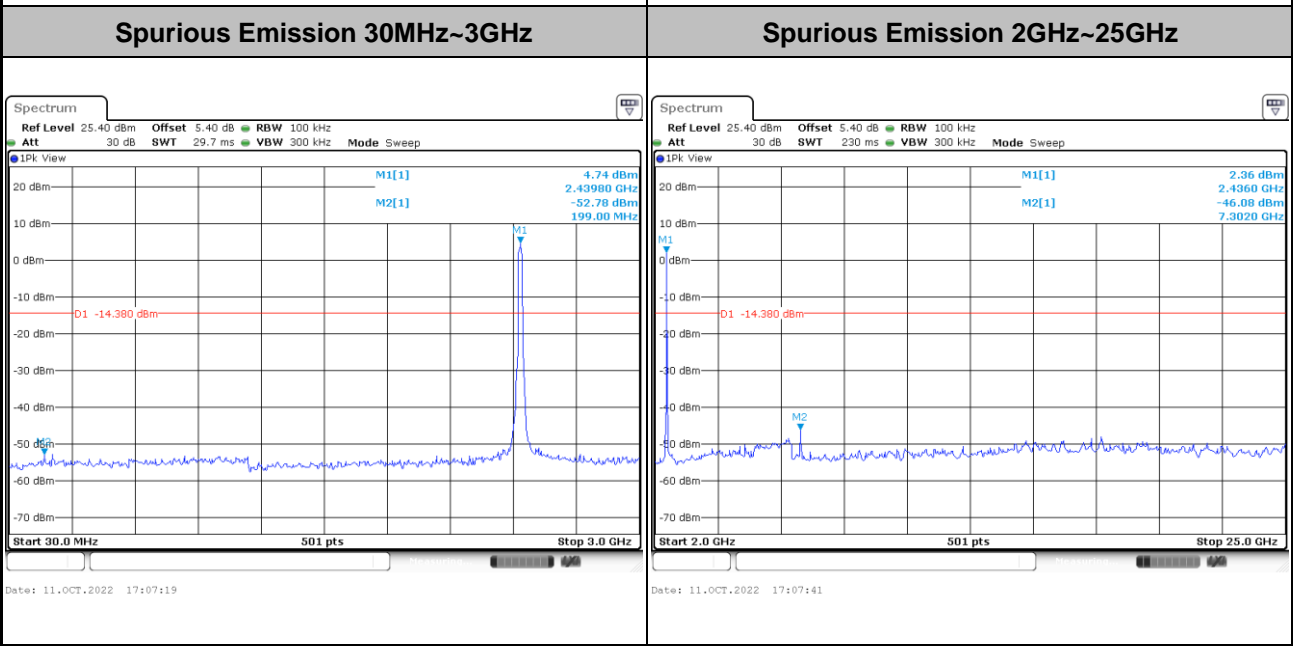
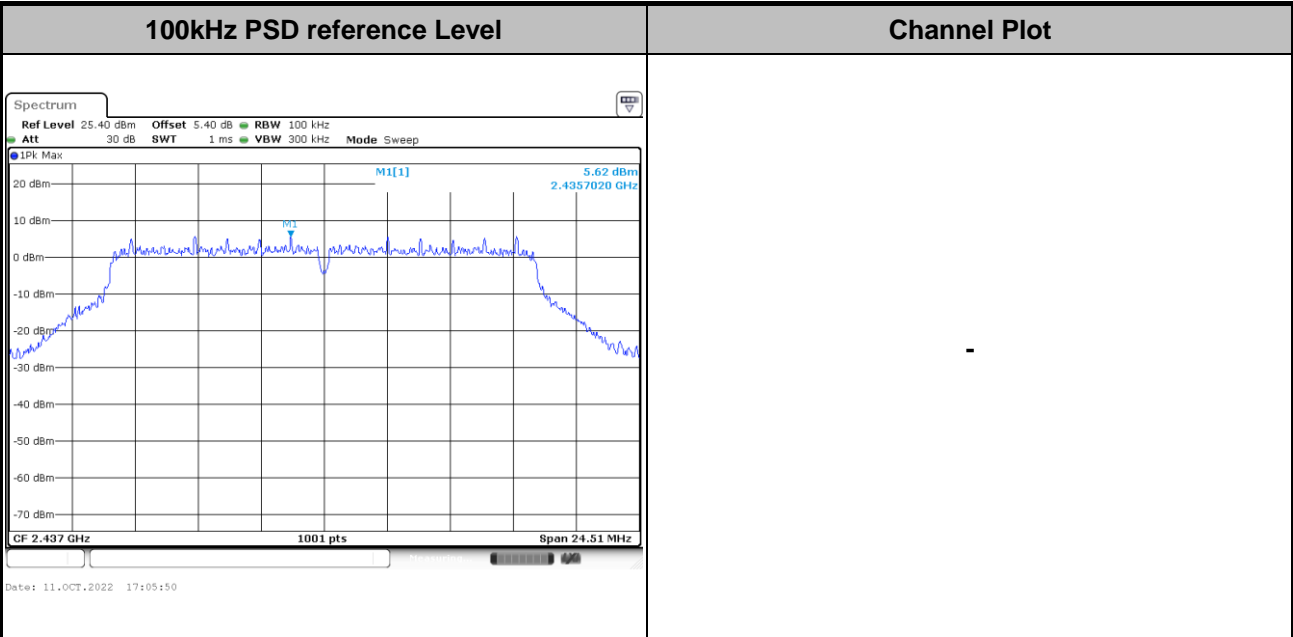


Test Mode : 802.11g Test Channel : 01



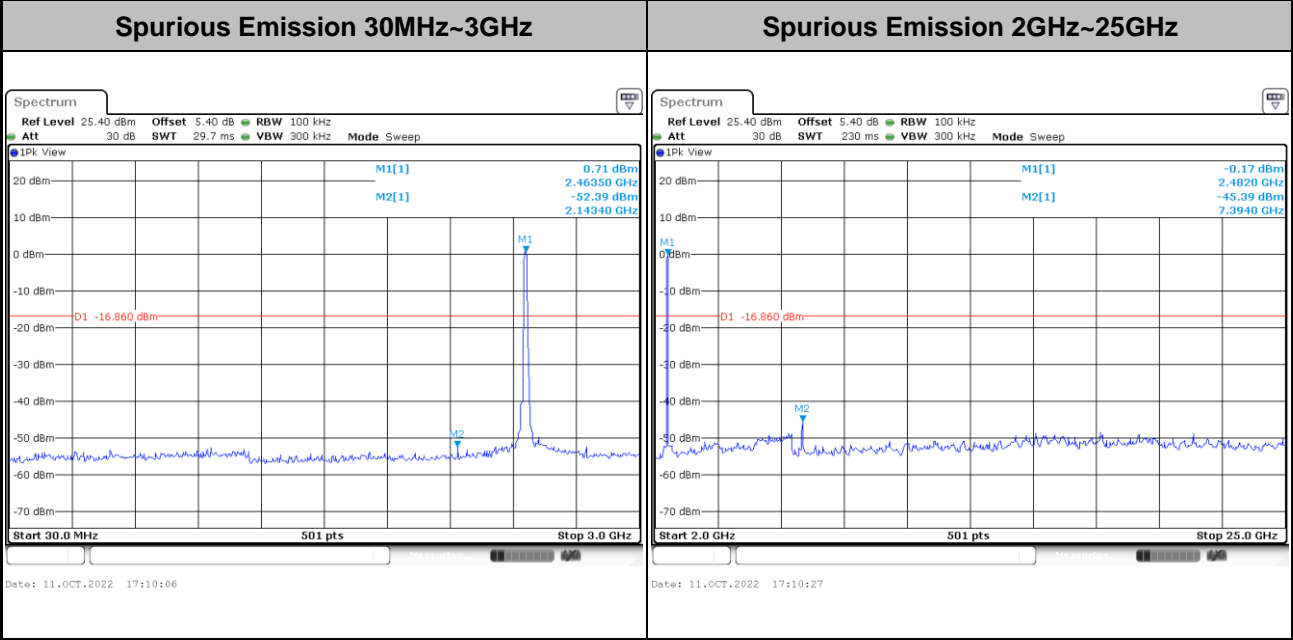
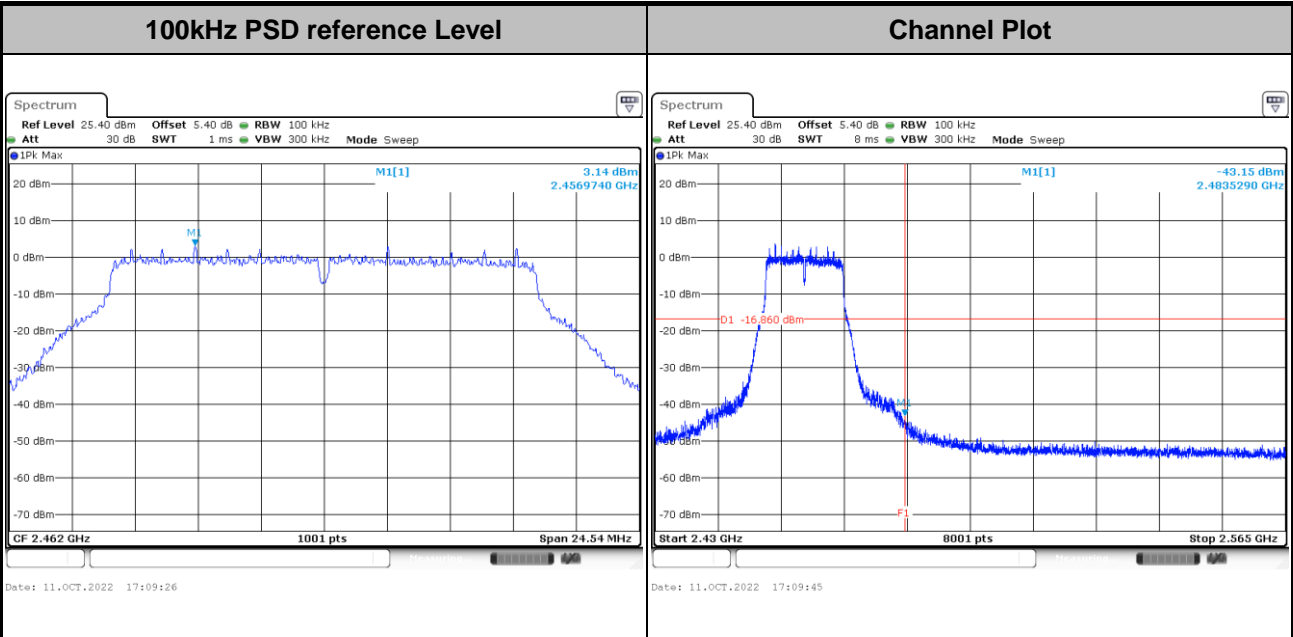


Test Mode :	802.11g	Test Channel :	06
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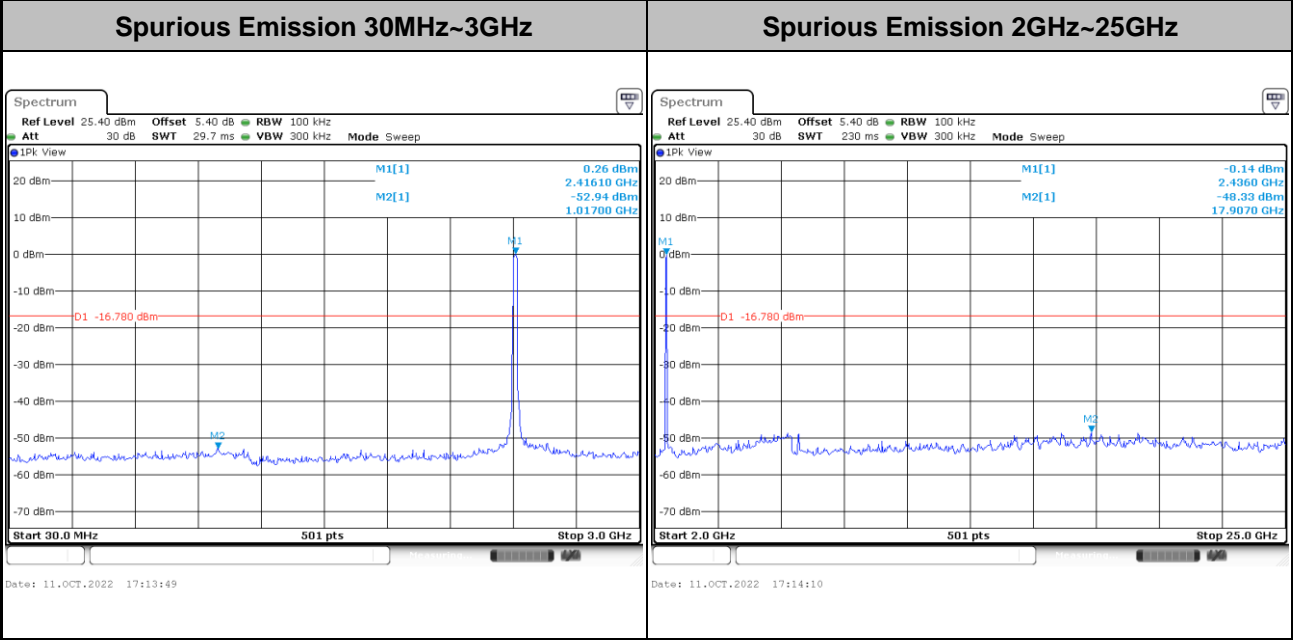
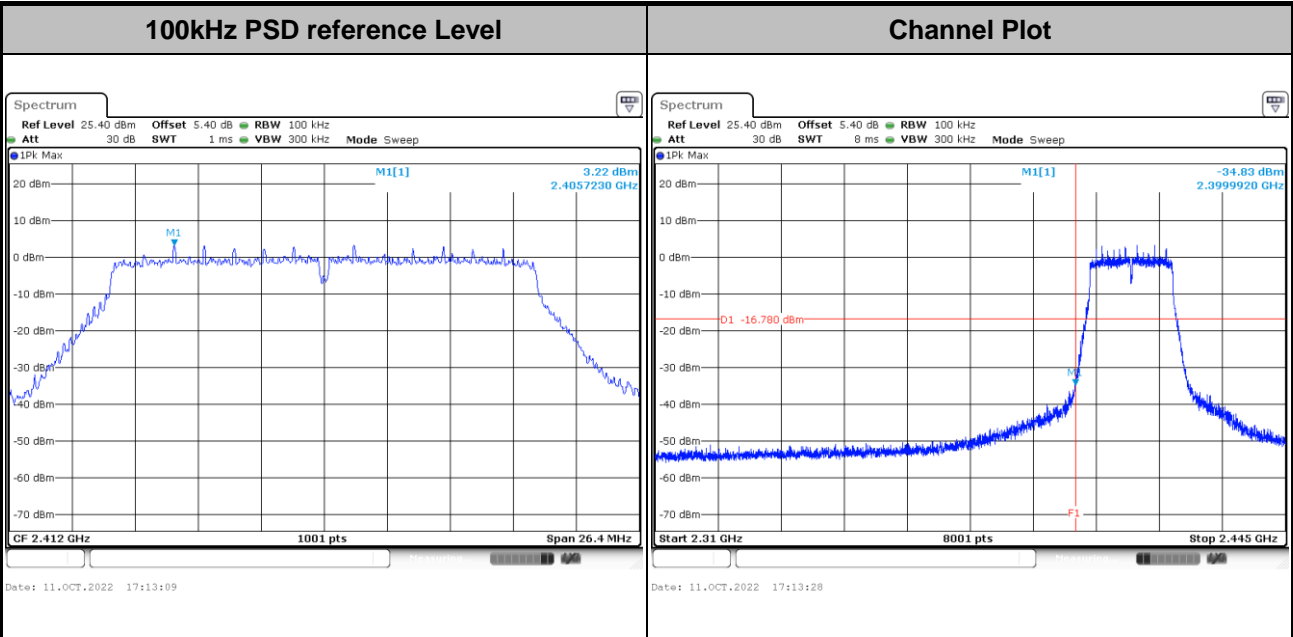


Test Mode : 802.11g Test Channel : 11



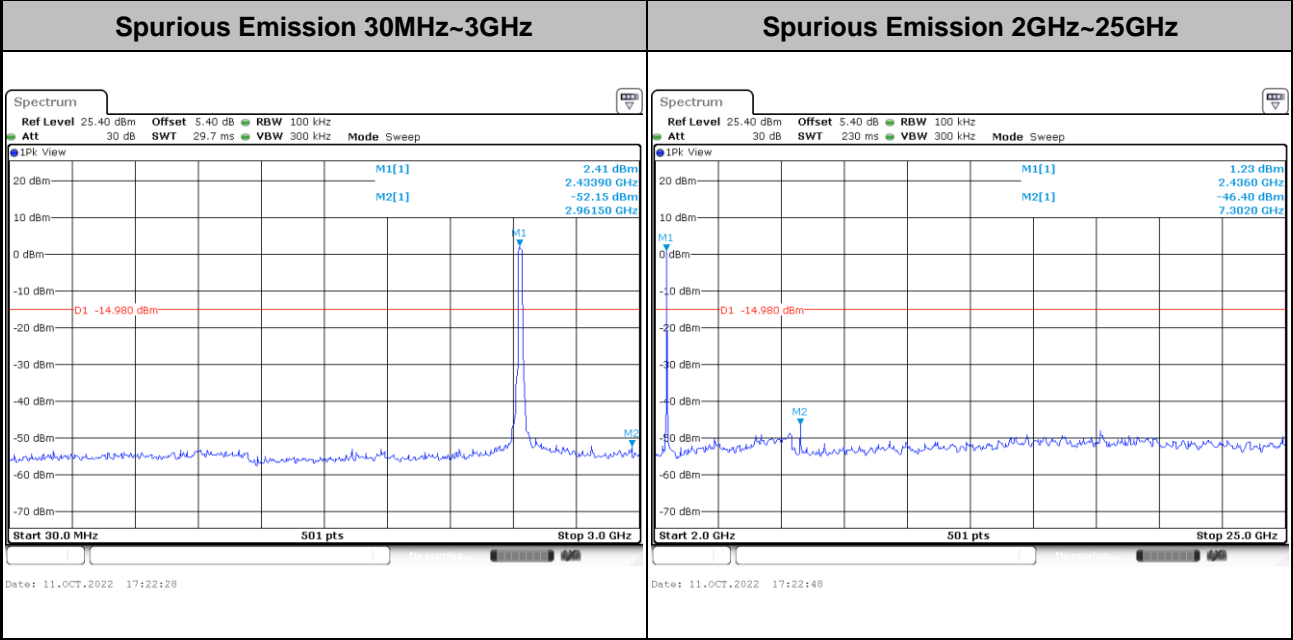
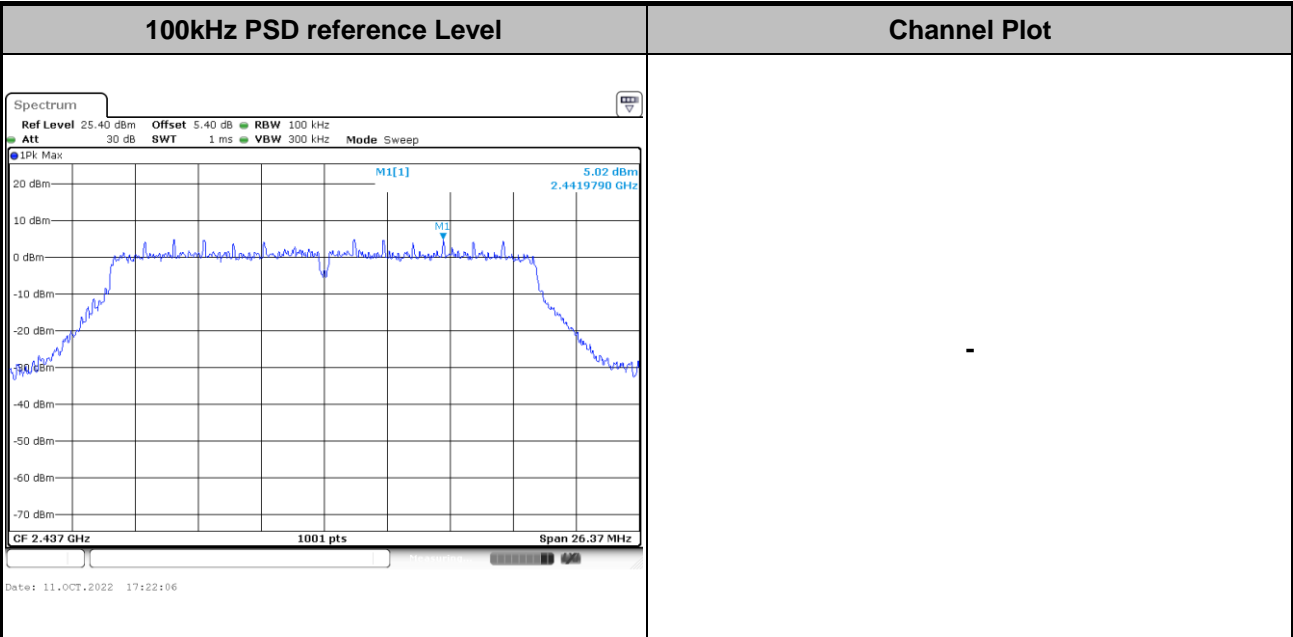


Test Mode : 802.11n HT20 Test Channel : 01



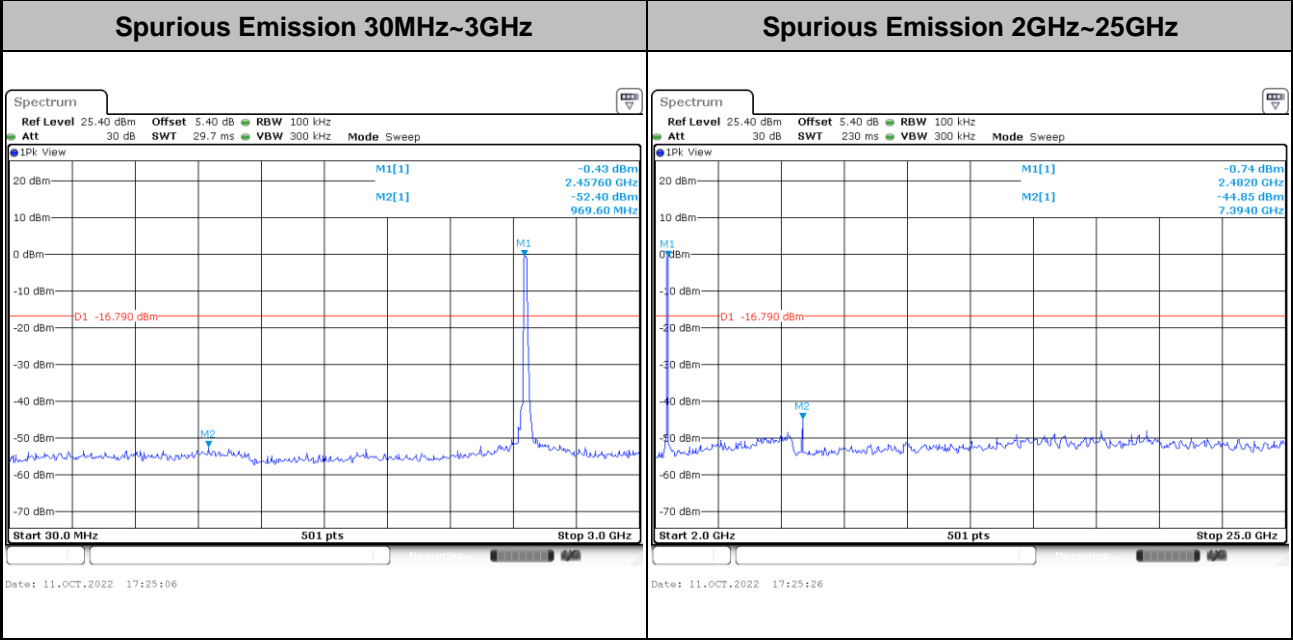
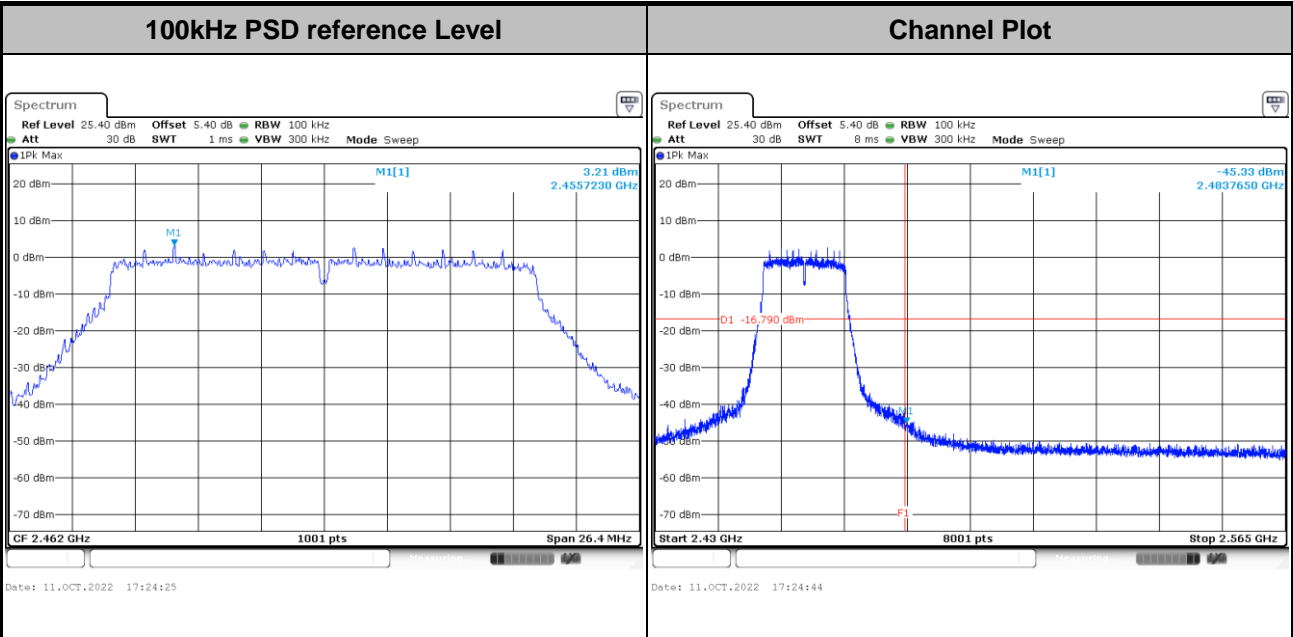


Test Mode :	802.11n HT20	Test Channel :	06
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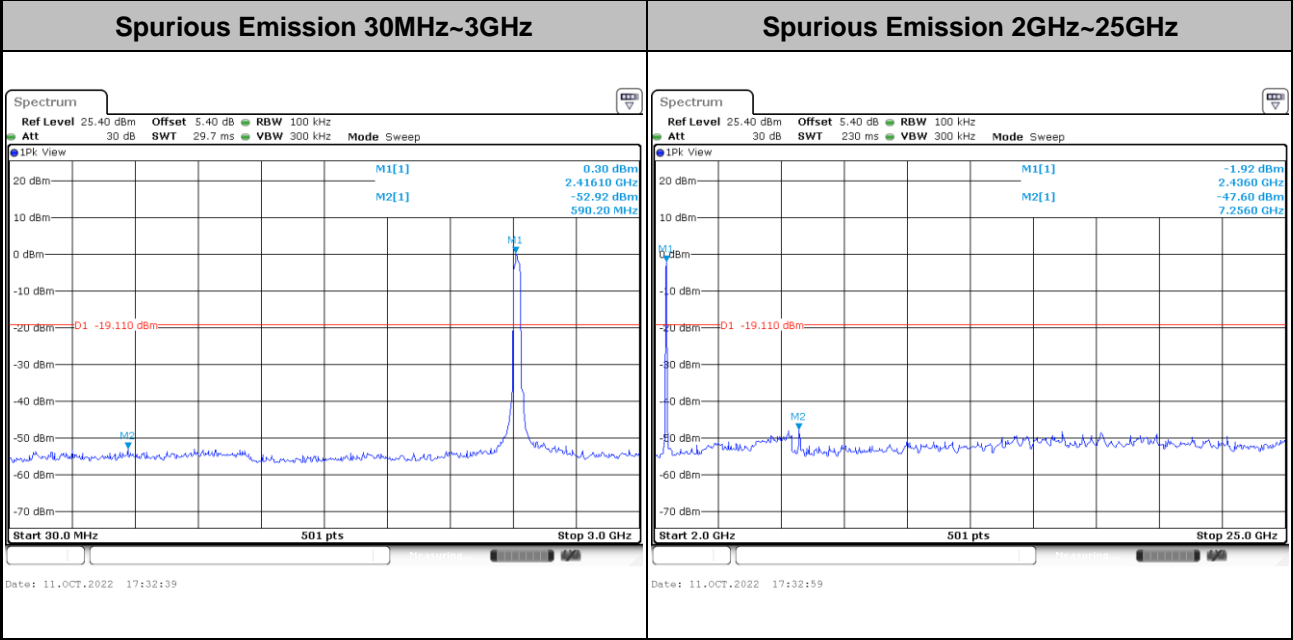
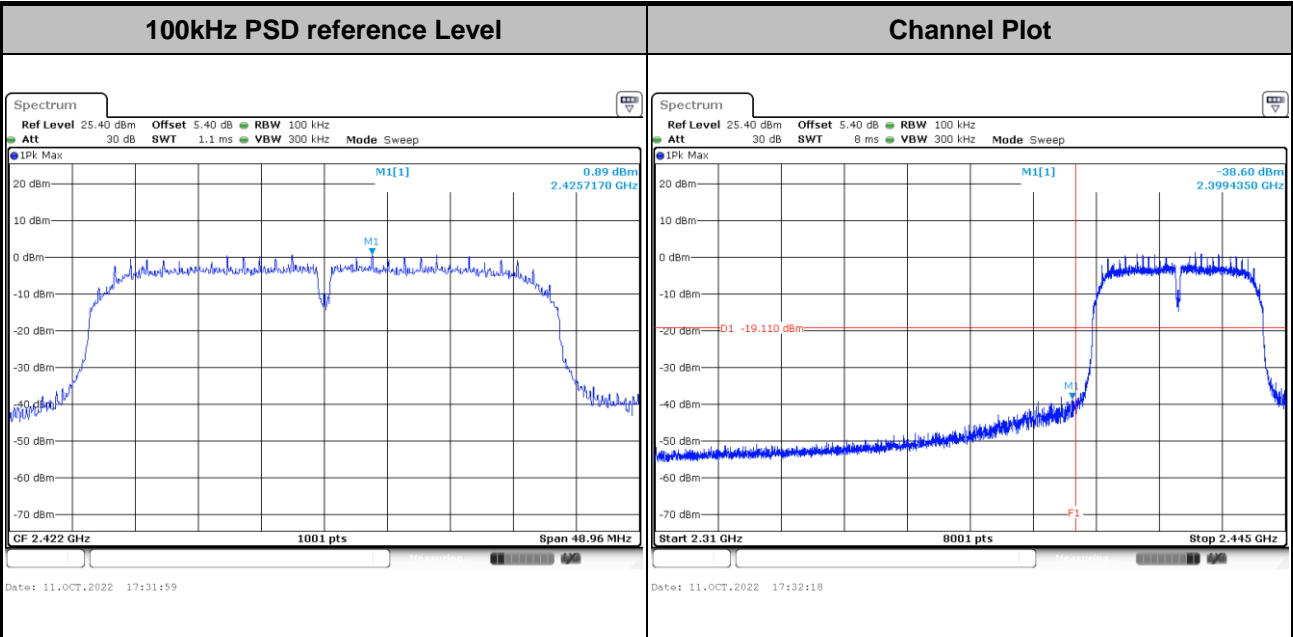


Test Mode : 802.11n HT20 Test Channel : 11



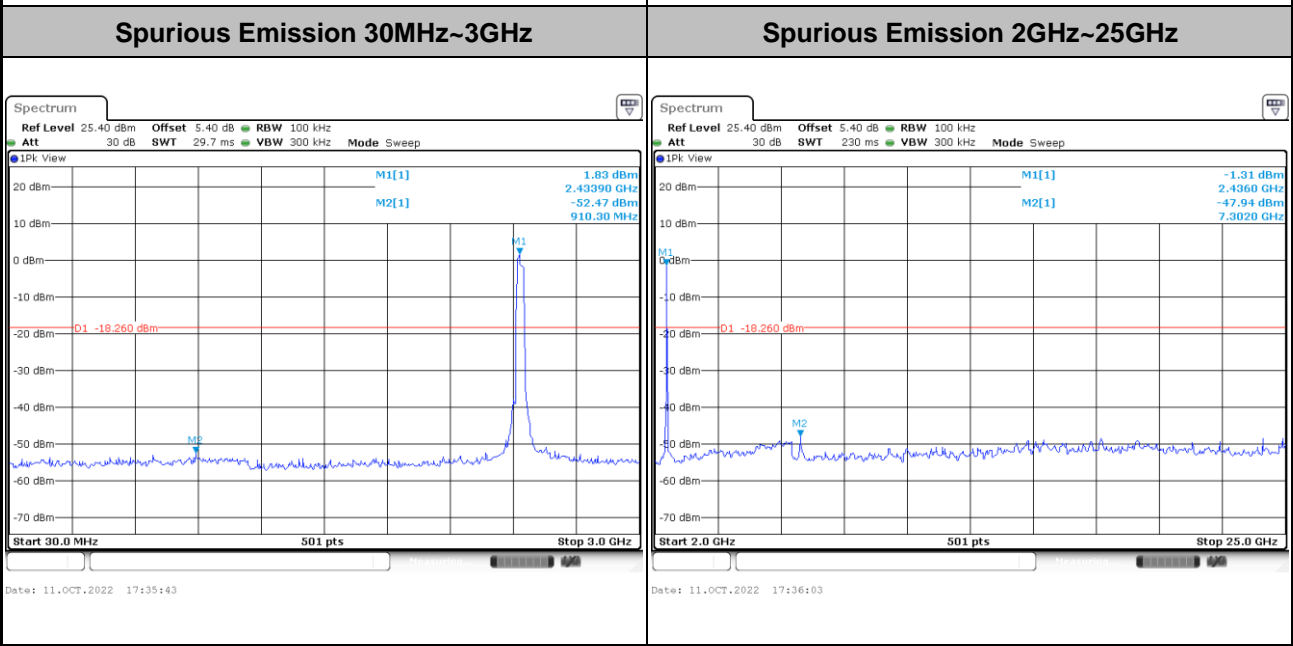
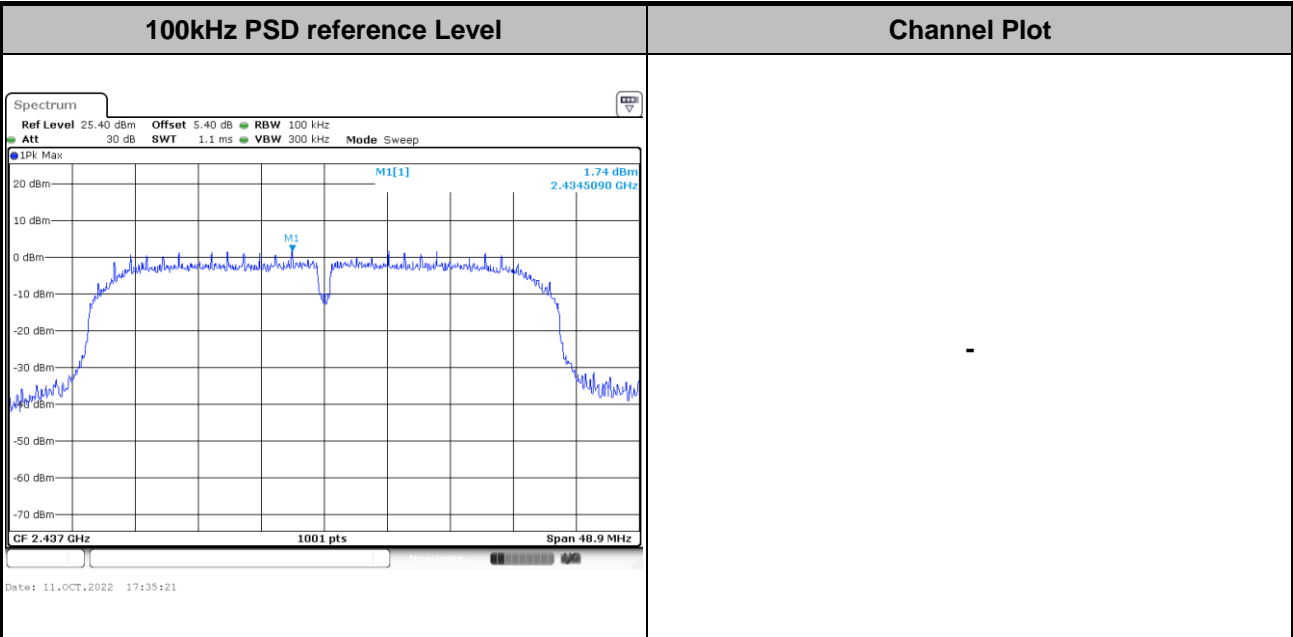


Test Mode : 802.11n HT40 Test Channel : 03



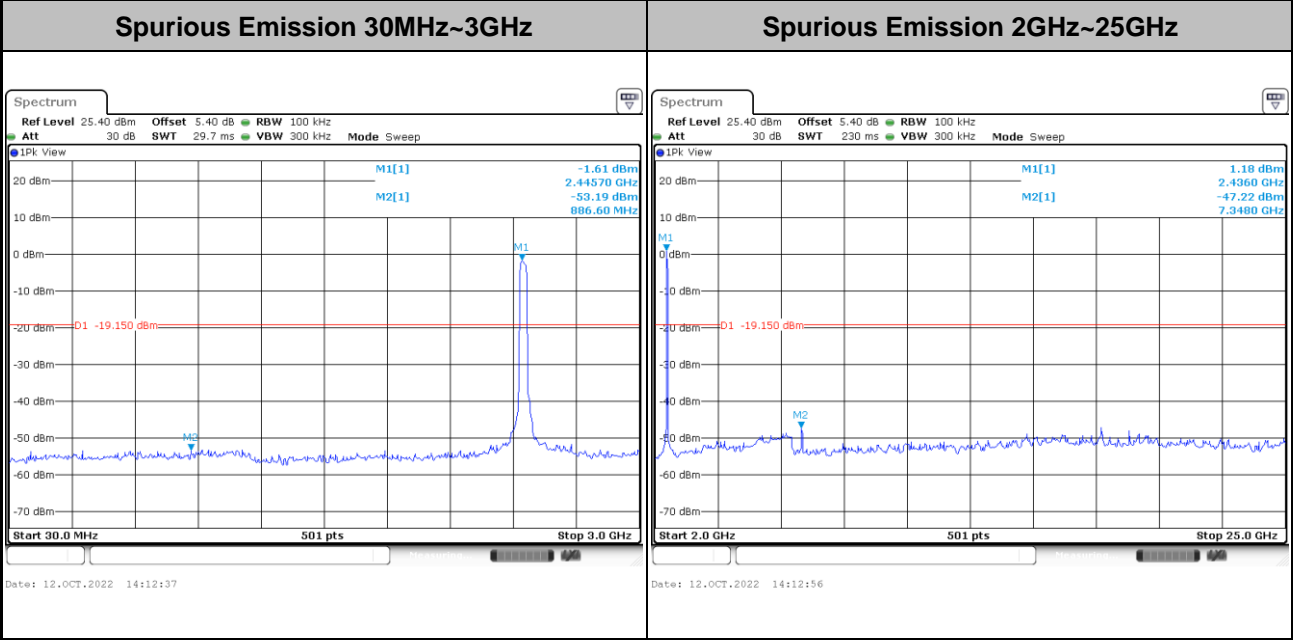
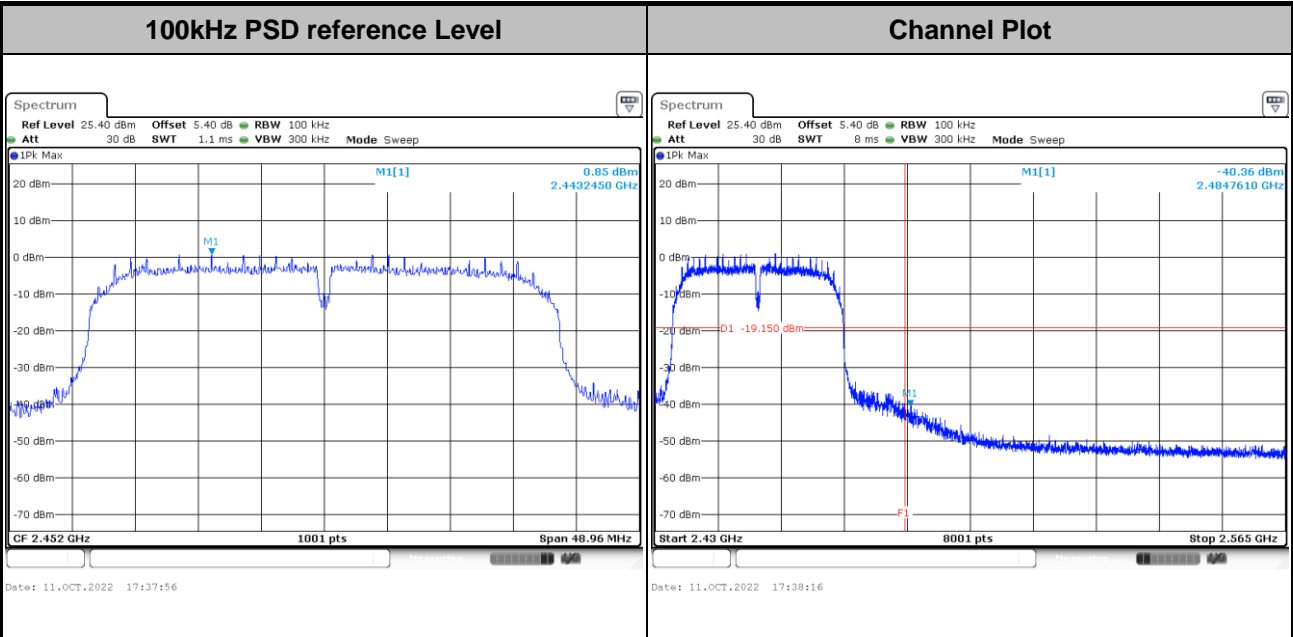


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode : 802.11n HT40 Test Channel : 09





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 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

3.5.2 Measuring Instruments

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

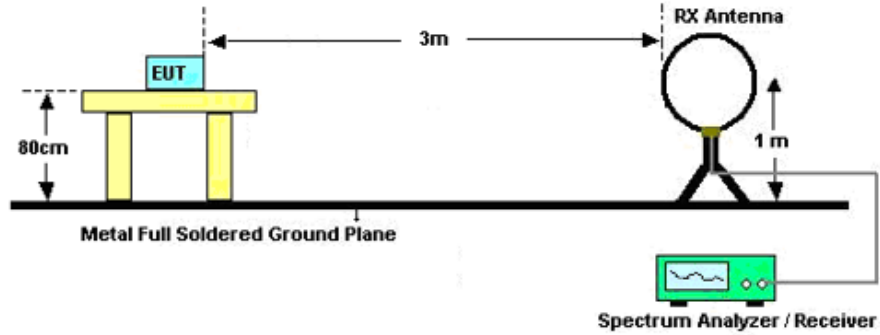


3.5.3 Test Procedures

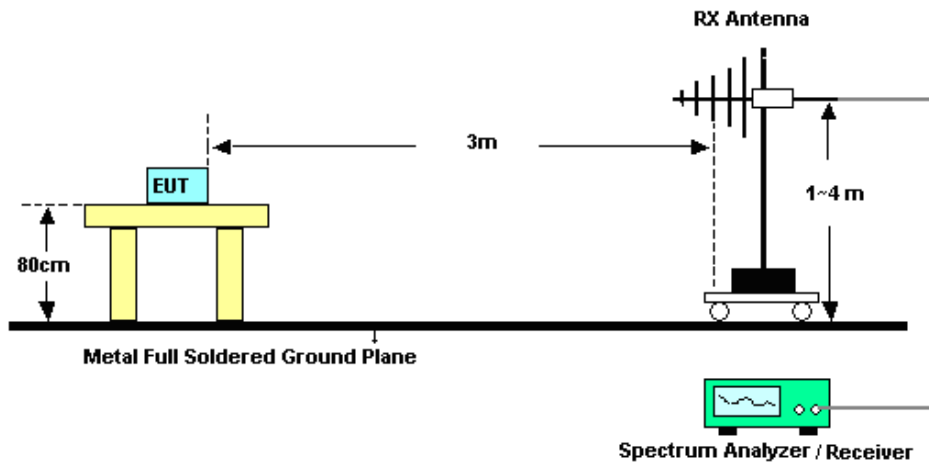
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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.

3.5.4 Test Setup

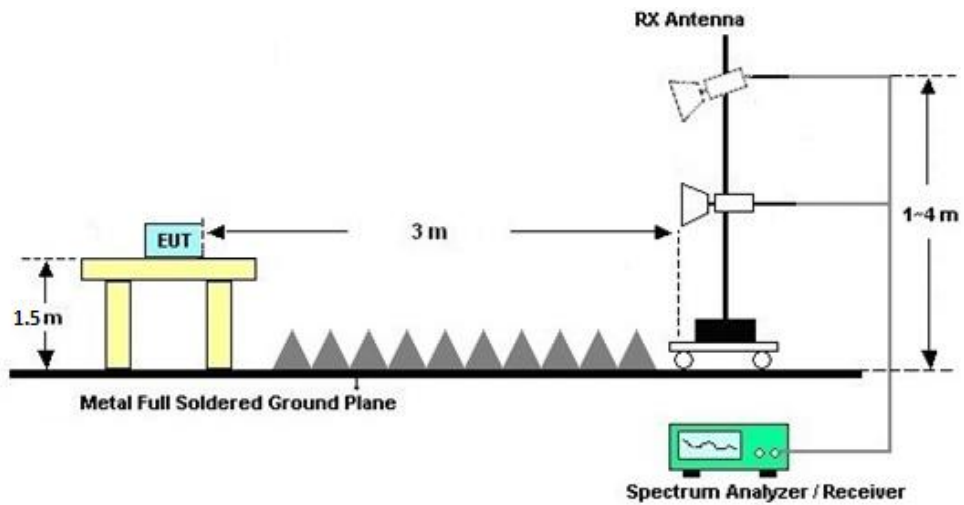
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C&D.



3.6 AC Conducted Emission Measurement

3.6.1 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 (dBµV)	
	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.

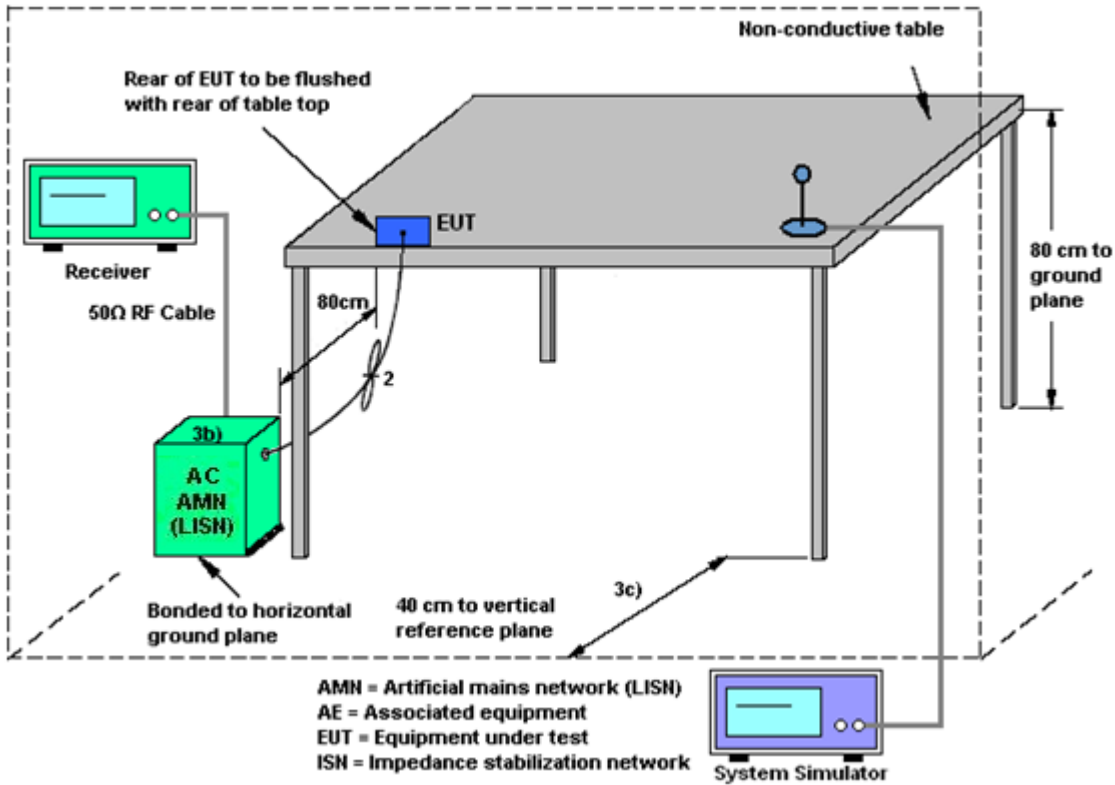
3.6.2 Measuring Instruments

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

3.6.3 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.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

3.7.3 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	Oct. 14, 2021	Aug. 17, 2022~ Oct. 12, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Aug. 17, 2022~ Oct. 12, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Aug. 17, 2022~ Oct. 12, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 16, 2021	Aug. 17, 2022~ Oct. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz-44G,MAX 30dB	Mar. 24, 2022	Aug. 17, 2022~ Oct. 13, 2022	Mar. 23, 2023	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Aug. 17, 2022~ Oct. 13, 2022	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Aug. 17, 2022~ Oct. 13, 2022	May 23, 2023	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2021	Aug. 17, 2022~ Oct. 13, 2022	Nov. 07, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Aug. 17, 2022~ Oct. 13, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 11, 2022	Aug. 17, 2022~ Oct. 13, 2022	Jul. 10, 2023	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Aug. 17, 2022~ Oct. 13, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2012228	1Ghz-18Ghz	Oct. 16, 2021	Aug. 17, 2022~ Oct. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY532703 16	500MHz~26.5G Hz	Oct. 16, 2021	Aug. 17, 2022~ Oct. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Aug. 17, 2022~ Oct. 13, 2022	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 17, 2022~ Oct. 13, 2022	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 17, 2022~ Oct. 13, 2022	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Oct. 12, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Oct. 12, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Oct. 12, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Oct. 12, 2022	Oct. 13, 2022	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.

Test Item	Uncertainty
Conducted Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %
Conducted Power Spectral Density	±0.54 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB
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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
---	-------

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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----- THE END -----



Appendix A. Conducted Test Results

A1 - Appendix A Conducted TEST Result

Test Engineer:	Kib Shi	Temperature:	21~25	°C
Test Date:	2022/8/17~2022/10/13	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	13.19	9.48	0.50	Pass
11b	1Mbps	1	6	2437	13.19	8.64	0.50	Pass
11b	1Mbps	1	11	2462	13.19	9.04	0.50	Pass
11g	6Mbps	1	1	2412	18.73	16.36	0.50	Pass
11g	6Mbps	1	6	2437	19.08	16.34	0.50	Pass
11g	6Mbps	1	11	2462	18.78	16.36	0.50	Pass
HT20	MCS0	1	1	2412	19.38	17.60	0.50	Pass
HT20	MCS0	1	6	2437	19.33	17.58	0.50	Pass
HT20	MCS0	1	11	2462	19.28	17.60	0.50	Pass
HT40	MCS0	1	3	2422	34.57	32.64	0.50	Pass
HT40	MCS0	1	6	2437	34.47	32.60	0.50	Pass
HT40	MCS0	1	9	2452	34.47	32.64	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	N _{TX}	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	16.20	30.00	2.33	18.53	36.00	Pass
11b	1Mbps	1	6	2437	17.80	30.00	2.33	20.13	36.00	Pass
11b	1Mbps	1	11	2462	17.49	30.00	2.33	19.82	36.00	Pass
11g	6Mbps	1	1	2412	23.75	30.00	2.33	26.08	36.00	Pass
11g	6Mbps	1	6	2437	24.38	30.00	2.33	26.71	36.00	Pass
11g	6Mbps	1	11	2462	23.61	30.00	2.33	25.94	36.00	Pass
HT20	MCS0	1	1	2412	23.72	30.00	2.33	26.05	36.00	Pass
HT20	MCS0	1	6	2437	24.31	30.00	2.33	26.64	36.00	Pass
HT20	MCS0	1	11	2462	23.47	30.00	2.33	25.80	36.00	Pass
HT40	MCS0	1	3	2422	23.91	30.00	2.33	26.24	36.00	Pass
HT40	MCS0	1	6	2437	24.24	30.00	2.33	26.57	36.00	Pass
HT40	MCS0	1	9	2452	24.03	30.00	2.33	26.36	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	13.71
11b	1Mbps	1	6	2437	0.00	15.19
11b	1Mbps	1	11	2462	0.00	14.90
11g	6Mbps	1	1	2412	0.00	15.80
11g	6Mbps	1	6	2437	0.00	18.07
11g	6Mbps	1	11	2462	0.00	15.60
HT20	MCS0	1	1	2412	0.00	15.54
HT20	MCS0	1	6	2437	0.00	17.23
HT20	MCS0	1	11	2462	0.00	15.33
HT40	MCS0	1	3	2422	0.05	15.64
HT40	MCS0	1	6	2437	0.05	16.76
HT40	MCS0	1	9	2452	0.05	15.73

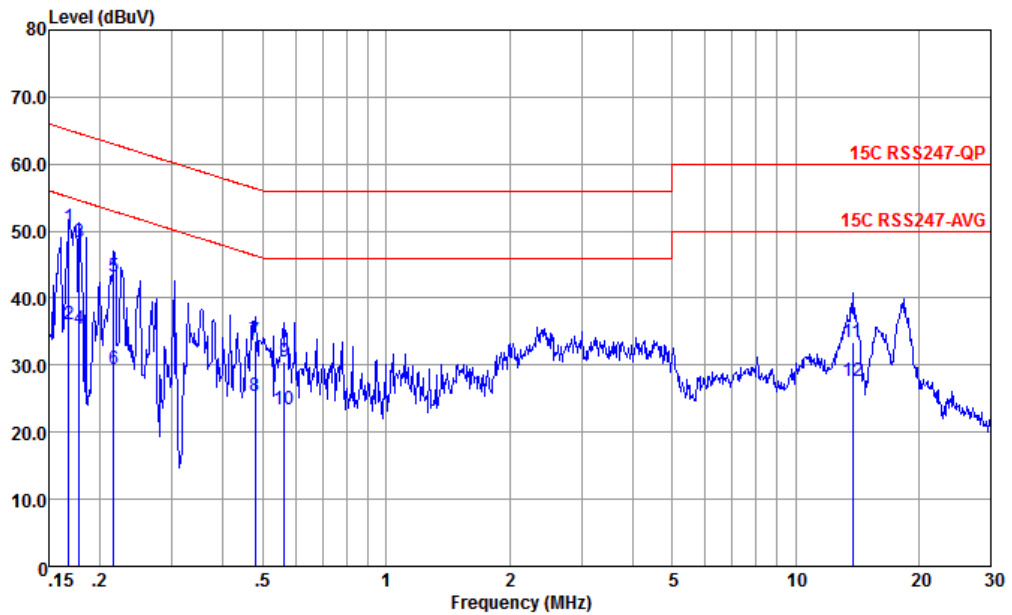
TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-9.25	2.33	8.00	Pass
11b	1Mbps	1	6	2437	-8.10	2.33	8.00	Pass
11b	1Mbps	1	11	2462	-7.36	2.33	8.00	Pass
11g	6Mbps	1	1	2412	-10.73	2.33	8.00	Pass
11g	6Mbps	1	6	2437	-8.14	2.33	8.00	Pass
11g	6Mbps	1	11	2462	-10.14	2.33	8.00	Pass
HT20	MCS0	1	1	2412	-9.55	2.33	8.00	Pass
HT20	MCS0	1	6	2437	-7.82	2.33	8.00	Pass
HT20	MCS0	1	11	2462	-10.64	2.33	8.00	Pass
HT40	MCS0	1	3	2422	-13.37	2.33	8.00	Pass
HT40	MCS0	1	6	2437	-11.02	2.33	8.00	Pass
HT40	MCS0	1	9	2452	-12.87	2.33	8.00	Pass



Appendix B. 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.		

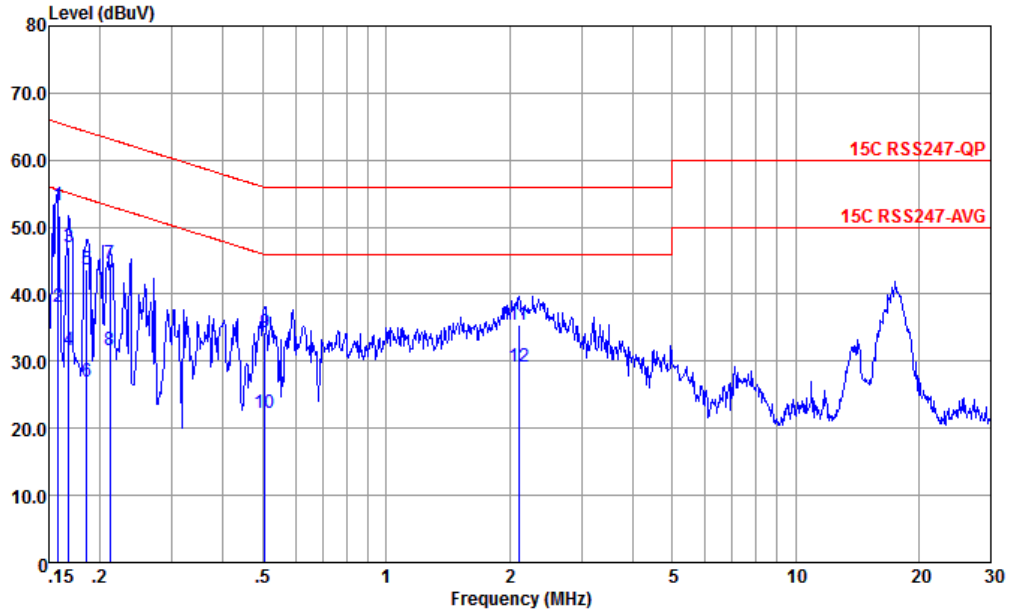


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.168	50.68	-14.40	65.08	40.20	0.05	10.43	QP
2	0.168	36.08	-19.00	55.08	25.60	0.05	10.43	Average
3	0.178	48.26	-16.33	64.59	37.80	0.04	10.42	QP
4	0.178	35.36	-19.23	54.59	24.90	0.04	10.42	Average
5	0.216	43.23	-19.73	62.96	32.79	0.03	10.41	QP
6	0.216	29.33	-23.63	52.96	18.89	0.03	10.41	Average
7	0.479	33.70	-22.66	56.36	23.49	-0.02	10.23	QP
8	0.479	25.40	-20.96	46.36	15.19	-0.02	10.23	Average
9	0.564	30.64	-25.36	56.00	20.50	-0.05	10.19	QP
10	0.564	23.44	-22.56	46.00	13.30	-0.05	10.19	Average
11	13.768	33.44	-26.56	60.00	22.50	-0.20	11.14	QP
12	13.768	27.54	-22.46	50.00	16.60	-0.20	11.14	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 : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.158	53.36	-12.20	65.56	42.90	0.03	10.43	QP
2	0.158	38.06	-17.50	55.56	27.60	0.03	10.43	Average
3	0.168	47.06	-18.02	65.08	36.59	0.04	10.43	QP
4	0.168	31.66	-23.42	55.08	21.19	0.04	10.43	Average
5	0.185	43.67	-20.57	64.24	33.21	0.04	10.42	QP
6	0.185	27.07	-27.17	54.24	16.61	0.04	10.42	Average
7	0.212	44.65	-18.49	63.14	34.20	0.04	10.41	QP
8	0.212	31.65	-21.49	53.14	21.20	0.04	10.41	Average
9	0.505	34.33	-21.67	56.00	24.20	-0.08	10.21	QP
10	0.505	22.33	-23.67	46.00	12.20	-0.08	10.21	Average
11	2.110	35.54	-20.46	56.00	25.60	-0.12	10.06	QP
12	2.110	29.14	-16.86	46.00	19.20	-0.12	10.06	Average

Note:

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



Appendix C. Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	22~23°C
		Relative Humidity :	41~42%

Channel	Power setting
11b CH01	22
11b CH06	19
11b CH11	20
11g CH01	10
11g CH06	0
11g CH11	14
11n HT20 CH01	7
11n HT20 CH06	0
11n HT20 CH11	11
11n HT40 CH03	5
11n HT40 CH06	11
11n HT40 CH09	5



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 CH 01 2412MHz		2386.18	53.16	-20.84	74	50.17	32.4	7.1	36.51	277	14	P	H
		2386.05	43.01	-10.99	54	40.02	32.4	7.1	36.51	277	14	A	H
	*	2412	110.78	-	-	107.87	32.39	7.13	36.61	277	14	P	H
	*	2412	103.31	-	-	100.4	32.39	7.13	36.61	277	14	A	H
		2355.24	49.16	-24.84	74	46.48	32.22	7.04	36.58	304	248	P	V
		2389.95	38.17	-15.83	54	35.18	32.4	7.1	36.51	304	248	A	V
	*	2410	103.91	-	-	101	32.39	7.13	36.61	304	248	P	V
	*	2412	96.81	-	-	93.9	32.39	7.13	36.61	304	248	A	V
802.11b CH 11 2462MHz		2484.88	54.49	-19.51	74	51.92	32.34	7.25	37.02	238	16	P	H
		2487.46	43.78	-10.22	54	41.21	32.34	7.25	37.02	238	16	A	H
	*	2464	110.7	-	-	108.04	32.36	7.22	36.92	238	16	P	H
	*	2462	103.3	-	-	100.64	32.36	7.22	36.92	238	16	A	H
		2484.64	51.52	-22.48	74	48.95	32.34	7.25	37.02	299	238	P	V
		2487.64	39.75	-14.25	54	37.3	32.33	7.25	37.13	299	238	A	V
	*	2462	103.04	-	-	100.38	32.36	7.22	36.92	299	238	P	V
	*	2464	95.56	-	-	92.9	32.36	7.22	36.92	299	238	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 802.11b (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4830	55.84	-18.16	74	76.97	34	10.25	65.38	100	314	P	H
		4830	50.6	-3.4	54	71.73	34	10.25	65.38	100	314	A	H
		4830	52.18	-21.82	74	73.31	34	10.25	65.38	110	121	P	V
		4830	46.96	-7.04	54	68.09	34	10.25	65.38	110	121	A	V
802.11b CH 06 2437MHz		4875	55.28	-18.72	74	76.27	34	10.29	65.28	119	131	P	H
		4875	50.78	-3.22	54	71.77	34	10.29	65.28	119	131	A	H
		7305	43.27	-30.73	74	61.47	35.76	12.72	66.68	300	0	P	H
		4875	52.56	-21.44	74	73.55	34	10.29	65.28	303	48	P	V
		4875	47.8	-6.2	54	68.79	34	10.29	65.28	303	48	A	V
		7305	43.36	-30.64	74	61.56	35.76	12.72	66.68	100	0	P	V
802.11b CH 11 2462MHz		4920	55.66	-18.34	74	76.62	34	10.34	65.3	100	136	P	H
		4920	50.9	-3.1	54	71.86	34	10.34	65.3	100	136	A	H
		7380	42.84	-31.16	74	61.24	35.78	12.73	66.91	300	0	P	H
		4920	53.51	-20.49	74	74.47	34	10.34	65.3	298	49	P	V
		4920	48.08	-5.92	54	69.04	34	10.34	65.3	298	49	A	V
		7380	43.29	-30.71	74	61.69	35.78	12.73	66.91	100	0	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), Path 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 CH 11 (2462MHz).



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 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), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.43	67.35	-6.65	74	64.36	32.4	7.1	36.51	278	18	P	H
		2389.95	52.44	-1.56	54	49.45	32.4	7.1	36.51	278	18	A	H
	*	2418	109.64	-	-	106.7	32.39	7.16	36.61	278	18	P	H
	*	2412	101.61	-	-	98.7	32.39	7.13	36.61	278	18	A	H
		2389.56	57.57	-16.43	74	54.58	32.4	7.1	36.51	304	248	P	V
		2389.95	43.85	-10.15	54	40.86	32.4	7.1	36.51	304	248	A	V
	*	2410	103.05	-	-	100.14	32.39	7.13	36.61	304	248	P	V
	*	2412	95.4	-	-	92.49	32.39	7.13	36.61	304	248	A	V
802.11n HT20 CH 11 2462MHz		2483.5	69.12	-4.88	74	66.55	32.34	7.25	37.02	302	16	P	H
		2483.5	52.79	-1.21	54	50.22	32.34	7.25	37.02	302	16	A	H
	*	2468	108.02	-	-	105.36	32.36	7.22	36.92	302	16	P	H
	*	2456	100.01	-	-	97.35	32.36	7.22	36.92	302	16	A	H
		2483.92	59.16	-14.84	74	56.59	32.34	7.25	37.02	265	239	P	V
		2483.5	43.78	-10.22	54	41.21	32.34	7.25	37.02	265	239	A	V
	*	2460	100.64	-	-	97.98	32.36	7.22	36.92	265	239	P	V
	*	2460	93.44	-	-	90.78	32.36	7.22	36.92	265	239	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4830	52.64	-21.36	74	73.65	34	10.25	65.26	100	131	P	H
		4830	44.33	-9.67	54	65.34	34	10.25	65.26	100	131	A	H
		4830	50.48	-23.52	74	71.49	34	10.25	65.26	100	60	P	V
		4830	42.1	-11.9	54	63.11	34	10.25	65.26	100	60	A	V
802.11n HT20 CH 06 2437MHz		4875	54.19	-19.81	74	75.18	34	10.29	65.28	100	140	P	H
		4875	46.73	-7.27	54	67.72	34	10.29	65.28	100	140	A	H
		7305	47.5	-26.5	74	65.7	35.76	12.72	66.68	300	0	P	H
		4875	51.77	-22.23	74	72.76	34	10.29	65.28	100	34	P	V
		4875	44.35	-9.65	54	65.34	34	10.29	65.28	100	34	A	V
		7305	49.56	-24.44	74	67.76	35.76	12.72	66.68	100	0	P	V
802.11n HT20 CH 11 2462MHz		4920	53.53	-20.47	74	74.49	34	10.34	65.3	100	137	P	H
		4920	44.59	-9.41	54	65.55	34	10.34	65.3	100	137	A	H
		7380	45.73	-28.27	74	64.13	35.78	12.73	66.91	300	0	P	H
		4920	50.32	-23.68	74	71.28	34	10.34	65.3	100	60	P	V
		4920	41.15	-12.85	54	62.11	34	10.34	65.3	100	60	A	V
			7380	47.27	-26.73	74	65.67	35.78	12.73	66.91	100	0	P
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.04	69.75	-4.25	74	66.76	32.4	7.1	36.51	306	169	P	H
		2389.04	52.12	-1.88	54	49.13	32.4	7.1	36.51	306	169	A	H
		2484.1	50.78	-23.22	74	48.21	32.34	7.25	37.02	306	169	P	H
		2483.62	39.37	-14.63	54	36.8	32.34	7.25	37.02	306	169	A	H
	*	2426	105.48	-	-	102.66	32.38	7.16	36.72	306	169	P	H
	*	2420	97.88	-	-	95.06	32.38	7.16	36.72	306	169	A	H
		2389.56	58.18	-15.82	74	55.19	32.4	7.1	36.51	382	252	P	V
		2389.04	42.57	-11.43	54	39.58	32.4	7.1	36.51	382	252	A	V
		2487.7	48.05	-25.95	74	45.6	32.33	7.25	37.13	382	252	P	V
		2483.8	37.64	-16.36	54	35.07	32.34	7.25	37.02	382	252	A	V
	*	2432	99.42	-	-	96.6	32.38	7.16	36.72	382	252	P	V
	*	2432	92.12	-	-	89.3	32.38	7.16	36.72	382	252	A	V
802.11n HT40 CH 06 2437MHz		2385.4	65.48	-8.52	74	62.62	32.31	7.1	36.55	183	167	P	H
		2389.95	52.54	-1.46	54	49.55	32.4	7.1	36.51	183	167	A	H
		2483.56	64.51	-9.49	74	61.94	32.34	7.25	37.02	183	167	P	H
		2483.5	50.54	-3.46	54	47.97	32.34	7.25	37.02	183	167	A	H
	*	2440	106.88	-	-	104.14	32.37	7.19	36.82	183	167	P	H
	*	2438	99.26	-	-	96.52	32.37	7.19	36.82	183	167	A	H
		2389.95	54.02	-19.98	74	51.03	32.4	7.1	36.51	382	251	P	V
		2389.95	41.7	-12.3	54	38.71	32.4	7.1	36.51	382	251	A	V
		2483.5	54.55	-19.45	74	51.98	32.34	7.25	37.02	382	251	P	V
		2483.5	41.21	-12.79	54	38.64	32.34	7.25	37.02	382	251	A	V
	*	2434	100.85	-	-	98.03	32.38	7.16	36.72	382	251	P	V
	*	2434	93.55	-	-	90.73	32.38	7.16	36.72	382	251	A	V



802.11n HT40 CH 09 2452MHz		2389.69	52.84	-21.16	74	49.85	32.4	7.1	36.51	300	167	P	H
		2389.95	41.6	-12.4	54	38.61	32.4	7.1	36.51	300	167	A	H
		2483.5	69.67	-4.33	74	67.1	32.34	7.25	37.02	300	167	P	H
		2483.5	52.51	-1.49	54	49.94	32.34	7.25	37.02	300	167	A	H
	*	2456	105.9	-	-	103.24	32.36	7.22	36.92	300	167	P	H
	*	2450	98.25	-	-	95.51	32.37	7.19	36.82	300	167	A	H
		2349.39	49.07	-24.93	74	46.52	32.13	7.04	36.62	337	298	P	V
		2372.27	37.93	-16.07	54	35.1	32.31	7.07	36.55	337	298	A	V
		2483.56	64.99	-9.01	74	62.42	32.34	7.25	37.02	337	298	P	V
		2483.5	48.08	-5.92	54	45.51	32.34	7.25	37.02	337	298	A	V
	*	2456	99.13	-	-	96.47	32.36	7.22	36.92	337	298	P	V
	*	2460	91.27	-	-	88.61	32.36	7.22	36.92	337	298	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4845	50.98	-23.02	74	71.99	34	10.25	65.26	104	133	P	H
		4845	42.1	-11.9	54	63.11	34	10.25	65.26	104	133	A	H
		7260	42.29	-31.71	74	60.32	35.75	12.72	66.5	300	0	P	H
		4845	48.76	-25.24	74	69.77	34	10.25	65.26	100	0	P	V
		7260	42.97	-31.03	74	61	35.75	12.72	66.5	100	0	P	V
802.11n HT40 CH 06 2437MHz		4875	51.95	-22.05	74	72.94	34	10.29	65.28	100	123	P	H
		4875	43.57	-10.43	54	64.56	34	10.29	65.28	100	123	A	H
		7305	44.02	-29.98	74	62.22	35.76	12.72	66.68	300	0	P	H
		4875	47.72	-26.28	74	68.71	34	10.29	65.28	100	0	P	V
		7305	45.22	-28.78	74	63.42	35.76	12.72	66.68	100	0	P	V
802.11n HT40 CH 09 2452MHz		4905	50.65	-23.35	74	71.6	34	10.34	65.29	100	150	P	H
		4905	41.6	-12.4	54	62.55	34	10.34	65.29	100	150	A	H
		7350	42.98	-31.02	74	61.34	35.77	12.72	66.85	300	0	P	H
		4905	49.31	-24.69	74	70.26	34	10.34	65.29	100	40	P	V
		4905	40.82	-13.18	54	61.77	34	10.34	65.29	100	40	A	V
		7350	43.89	-30.11	74	62.25	35.77	12.72	66.85	100	0	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 HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 HT20 LF		130.88	16.42	-27.08	43.5	30.85	16.67	1.74	32.84	-	-	P	H
		182.29	18.72	-24.78	43.5	33.73	15.77	2.05	32.83	-	-	P	H
		241.46	20.87	-25.13	46	33.38	17.9	2.37	32.78	-	-	P	H
		272.5	23.48	-22.52	46	34.92	18.83	2.52	32.79	-	-	P	H
		400.54	21.06	-24.94	46	29.15	21.69	3.05	32.83	-	-	P	H
		647.89	25.53	-20.47	46	29.39	25.21	3.88	32.95	-	-	P	H
		37.76	22.51	-17.49	40	34.23	20.35	0.85	32.92	-	-	P	V
		177.44	22.3	-21.2	43.5	37.24	15.87	2.02	32.83	-	-	P	V
		272.5	21.81	-24.19	46	33.25	18.83	2.52	32.79	-	-	P	V
		400.54	23.07	-22.93	46	31.16	21.69	3.05	32.83	-	-	P	V
		511.12	23.65	-22.35	46	29.23	23.93	3.45	32.96	-	-	P	V
	880.69	31.59	-14.41	46	32.44	26.64	4.54	32.03	-	-	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	Path	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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path 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)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path 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)
2. 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 D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



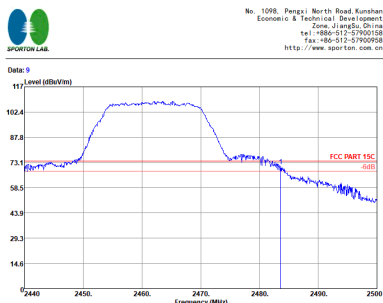
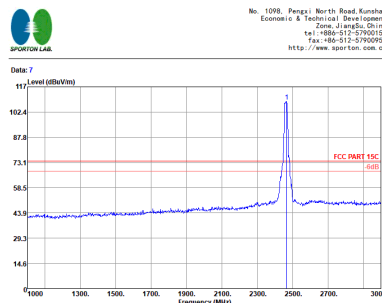
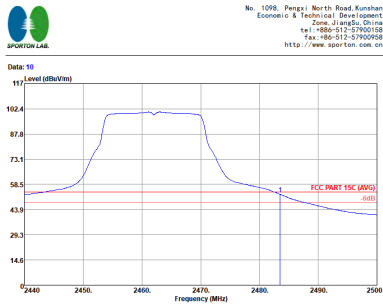
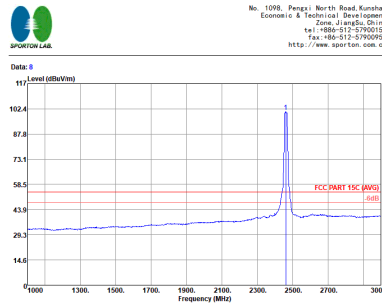
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	802.11g CH01 2412MHz																																																											
1	Horizontal	Fundamental																																																										
Peak	<p>Site : 030805-K3 Condition : FCC PART 15C 3e 3117.5M 00218642 HORIZONTAL Project : RSR 1000.000MHz VSR 3000.000MHz SRT Auto Mode : (FR)281116 Plane : 无导线阵 Full-directivity : 是 PowerSetting : 10</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dBV/m</th> <th>dBV/m</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>67.38</td> <td>-6.62</td> <td>74.00</td> <td>64.39</td> <td>32.40</td> <td>7.10</td> <td>36.51</td> <td>278</td> <td>16</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBV/m	dBV/m	dBV/m	dB	deg	on	deg	1	2389.95	67.38	-6.62	74.00	64.39	32.40	7.10	36.51	278	16	Peak	HORIZONTAL	<p>Site : 030805-K3 Condition : FCC PART 15C 3e 3117.5M 00218642 HORIZONTAL Project : RSR 1000.000MHz VSR 3000.000MHz SRT Auto Mode : (FR)281116 Plane : 无导线阵 Full-directivity : 是 PowerSetting : 10</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dBV/m</th> <th>dBV/m</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2414.00</td> <td>109.97</td> <td>35.97</td> <td>74.00</td> <td>107.06</td> <td>32.39</td> <td>7.13</td> <td>36.61</td> <td>278</td> <td>16</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBV/m	dBV/m	dBV/m	dB	deg	on	deg	1	2414.00	109.97	35.97	74.00	107.06	32.39	7.13	36.61	278	16	Peak	HORIZONTAL
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Avg.	<p>Site : 030805-K3 Condition : FCC PART 15C (AVG) 3e 3117.5M 00218642 HORIZONTAL Project : RSR 1000.000MHz VSR 0.0100MHz SRT Auto Mode : (FR)281116 Plane : 无导线阵 Full-directivity : 是 PowerSetting : 10</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dBV/m</th> <th>dBV/m</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>52.43</td> <td>-1.57</td> <td>54.00</td> <td>49.44</td> <td>32.40</td> <td>7.10</td> <td>36.51</td> <td>278</td> <td>16</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBV/m	dBV/m	dBV/m	dB	deg	on	deg	1	2389.95	52.43	-1.57	54.00	49.44	32.40	7.10	36.51	278	16	Average	HORIZONTAL	<p>Site : 030805-K3 Condition : FCC PART 15C (AVG) 3e 3117.5M 00218642 HORIZONTAL Project : RSR 1000.000MHz VSR 0.0100MHz SRT Auto Mode : (FR)281116 Plane : 无导线阵 Full-directivity : 是 PowerSetting : 10</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dBV/m</th> <th>dBV/m</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2414.00</td> <td>102.05</td> <td>48.05</td> <td>54.00</td> <td>99.14</td> <td>32.39</td> <td>7.13</td> <td>36.61</td> <td>278</td> <td>16</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBV/m	dBV/m	dBV/m	dB	deg	on	deg	1	2414.00	102.05	48.05	54.00	99.14	32.39	7.13	36.61	278	16	Average	HORIZONTAL
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	802.11g CH01 2412MHz																																																											
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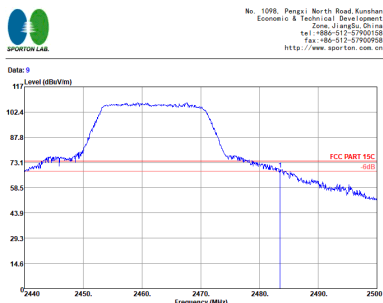
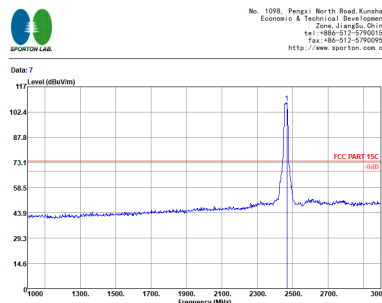
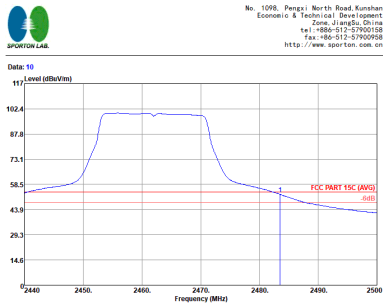
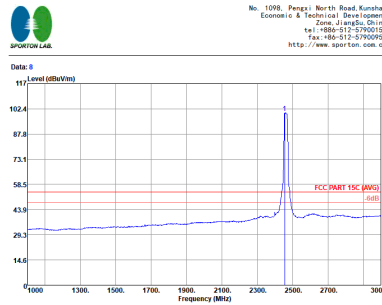
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WIFI 802.11n HT20 (Band Edge @ 3m)

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<p>Peak</p>	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 030H05-K3 Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : FR281116 Mode : 20 Plane : 垂直极化 MEI : Full-directivity PowerSetting : 0</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.80</td> <td>48.06</td> <td>-26.95</td> <td>74.00</td> <td>45.60</td> <td>32.33</td> <td>7.25</td> <td>37.13</td> <td>382</td> <td>252</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg			1	2483.80	48.06	-26.95	74.00	45.60	32.33	7.25	37.13	382	252	Peak	VERTICAL	<p>Left blank</p>
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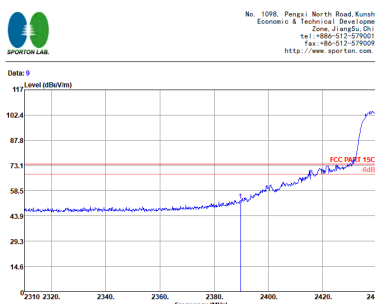
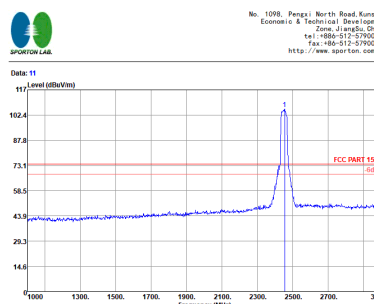
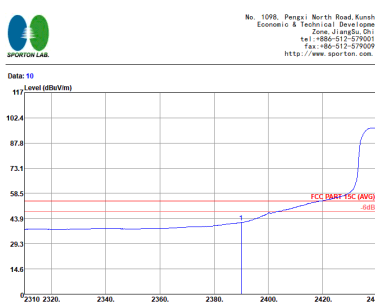
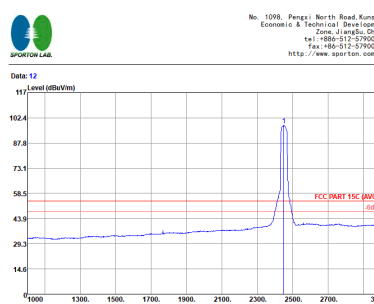


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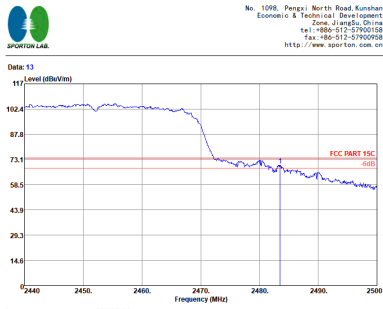
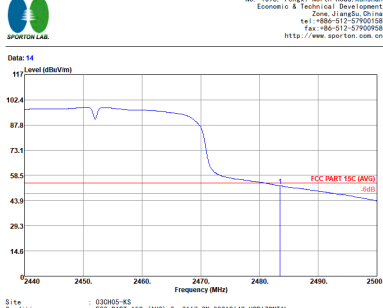


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ANT	802.11n HT40 CH06 2437MHz - R																																								
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<p>Peak</p>	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 030905-K3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : FR281116 Mode : IS Plane : 垂直极化 MEI : Full-directivity PowerSetting : 80</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBm/100m</th> <th>dB</th> <th>dBm/100m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>54.55</td> <td>-19.45</td> <td>74.00</td> <td>51.98</td> <td>32.34</td> <td>7.25</td> <td>37.02</td> <td>382</td> <td>251</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	cm	deg	MHz	dBm/100m	dB	dBm/100m	dB	dB	dB	cm	deg	1	2483.50	54.55	-19.45	74.00	51.98	32.34	7.25	37.02	382	251	Peak	VERTICAL	<p>Left blank</p>
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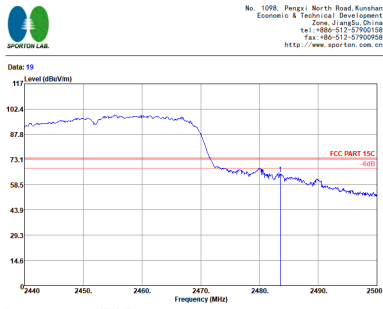
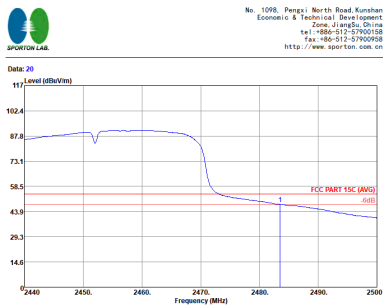


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1	2372.27	37.93	-16.07	54.00	35.10	32.31	7.07	36.55	337	298	Average	VERTICAL																																																												
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MHz	dBV/m	dB	dBV/m	dBV	dB/m	dB	cm	deg	cm	deg																																																														
1	2460.00	91.27	37.27	54.00	88.61	32.36	7.22	36.92	337	298	Average	VERTICAL																																																												



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																															
ANT	802.11n HT40 CH09 2452MHz - R																															
1	Vertical	Fundamental																														
<p>Peak</p>	 <p>Site : 030805-K3 Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RBM 1000 000MHz VBW 3000 000kHz SFT Auto File : FRU281116 Mode : IS Plane : 垂直平面 MEI : Full-directivity Powerstting : 0</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.56</td> <td>64.99</td> <td>-9.91</td> <td>74.00</td> <td>62.42</td> <td>32.34</td> <td>7.25</td> <td>37.02</td> <td>337</td> <td>298</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	cm	deg	1	2483.56	64.99	-9.91	74.00	62.42	32.34	7.25	37.02	337	298	Peak	VERTICAL	<p>Left blank</p>
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<p>Avg.</p>	 <p>Site : 030805-K3 Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 VERTICAL Project : RBM 1000 000MHz VBW 3000 000kHz SFT Auto File : FRU281116 Mode : IS Plane : 垂直平面 MEI : Full-directivity Powerstting : 0</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>48.08</td> <td>-5.92</td> <td>54.00</td> <td>45.51</td> <td>32.34</td> <td>7.25</td> <td>37.02</td> <td>337</td> <td>298</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	cm	deg	1	2483.50	48.08	-5.92	54.00	45.51	32.34	7.25	37.02	337	298	Average	VERTICAL	<p>Left blank</p>
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2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
ANT	802.11b CH01 2412MHz																																																																																									
1	Horizontal	Vertical																																																																																								
Peak Avg.	<p>Site : 03DH05-K5 Condition : FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL Project : RSM 1000.000KHz VSW:3000.000KHz SRT:Auto Mode : FR281116 Plane : 无线干扰 Full-directivity : 是 IWE1 : 是 PowerSetting : 22</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4830.00</td> <td>55.84</td> <td>-18.16</td> <td>74.00</td> <td>76.97</td> <td>34.00</td> <td>10.25</td> <td>65.38</td> <td>100</td> <td>314</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>4830.00</td> <td>50.00</td> <td>-3.40</td> <td>54.00</td> <td>71.73</td> <td>34.00</td> <td>10.25</td> <td>65.38</td> <td>100</td> <td>314</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Level	Level	Level	Level	Level	Level	Level	1	4830.00	55.84	-18.16	74.00	76.97	34.00	10.25	65.38	100	314	Peak	HORIZONTAL	2	4830.00	50.00	-3.40	54.00	71.73	34.00	10.25	65.38	100	314	Average	HORIZONTAL	<p>Site : 03DH05-K5 Condition : FCC PART 15C 3m 3117.5M 00218642 VERTICAL Project : RSM 1000.000KHz VSW:3000.000KHz SRT:Auto Mode : FR281116 Plane : 无线干扰 Full-directivity : 是 IWE1 : 是 PowerSetting : 22</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Level</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4830.00</td> <td>52.18</td> <td>-21.82</td> <td>74.00</td> <td>73.31</td> <td>34.00</td> <td>10.25</td> <td>65.38</td> <td>110</td> <td>121</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>4830.00</td> <td>46.96</td> <td>-7.04</td> <td>54.00</td> <td>68.09</td> <td>34.00</td> <td>10.25</td> <td>65.38</td> <td>110</td> <td>121</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Level	Level	Level	Level	Level	Level	Level	1	4830.00	52.18	-21.82	74.00	73.31	34.00	10.25	65.38	110	121	Peak	VERTICAL	2	4830.00	46.96	-7.04	54.00	68.09	34.00	10.25	65.38	110	121	Average	VERTICAL
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																						
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Peak Avg.	<p>Site : 030905-K5 Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : FR281116 Mode : 5 Plane : 无线干扰 Full-directivity IMEI : 89 PowerSetting : 19</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>55.28</td> <td>-18.72</td> <td>74.00</td> <td>74.00</td> <td>10.29</td> <td>65.28</td> <td>119</td> <td>131 Peak HORIZONTAL</td> </tr> <tr> <td>2</td> <td>4875.00</td> <td>50.79</td> <td>-3.22</td> <td>54.00</td> <td>71.77</td> <td>34.00</td> <td>10.29</td> <td>65.28</td> <td>119</td> <td>131 Average HORIZONTAL</td> </tr> <tr> <td>3</td> <td>7305.00</td> <td>43.27</td> <td>-30.73</td> <td>74.00</td> <td>61.47</td> <td>35.76</td> <td>12.72</td> <td>66.68</td> <td>300</td> <td>0 Peak HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Line	Level	Factor	Loss	Factor	Factor	Factor	Factor	1	4875.00	55.28	-18.72	74.00	74.00	10.29	65.28	119	131 Peak HORIZONTAL	2	4875.00	50.79	-3.22	54.00	71.77	34.00	10.29	65.28	119	131 Average HORIZONTAL	3	7305.00	43.27	-30.73	74.00	61.47	35.76	12.72	66.68	300	0 Peak HORIZONTAL	<p>Site : 030905-K5 Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : FR281116 Mode : 5 Plane : 无线干扰 Full-directivity IMEI : 89 PowerSetting : 19</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>52.54</td> <td>-21.44</td> <td>74.00</td> <td>73.55</td> <td>34.00</td> <td>10.29</td> <td>65.28</td> <td>303</td> <td>48 Peak VERTICAL</td> </tr> <tr> <td>2</td> <td>4875.00</td> <td>47.80</td> <td>-6.20</td> <td>54.00</td> <td>68.79</td> <td>34.00</td> <td>10.29</td> <td>65.28</td> <td>303</td> <td>48 Average VERTICAL</td> </tr> <tr> <td>3</td> <td>7305.00</td> <td>43.28</td> <td>-30.64</td> <td>74.00</td> <td>61.56</td> <td>35.76</td> <td>12.72</td> <td>66.68</td> <td>100</td> <td>0 Peak VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Line	Level	Factor	Loss	Factor	Factor	Factor	Factor	1	4875.00	52.54	-21.44	74.00	73.55	34.00	10.29	65.28	303	48 Peak VERTICAL	2	4875.00	47.80	-6.20	54.00	68.79	34.00	10.29	65.28	303	48 Average VERTICAL	3	7305.00	43.28	-30.64	74.00	61.56	35.76	12.72	66.68	100	0 Peak VERTICAL
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																															
ANT	802.11b CH11 2462MHz																																																																																																															
1	Horizontal	Vertical																																																																																																														
Peak Avg.	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 030805-K5 Condition : FCC PART 15C @ 3117.5M 00218442 HORIZONTAL Project : FR28116 Mode : 5 Plane : 无线干扰 Full-directivity IMEI : 85 PowerSetting : 50</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phase</th> </tr> <tr> <th>dBm</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4920.00</td> <td>55.66</td> <td>-18.34</td> <td>74.00</td> <td>74.62</td> <td>34.00</td> <td>10.34</td> <td>65.30</td> <td>100</td> <td>136</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>4920.00</td> <td>52.99</td> <td>-3.10</td> <td>54.00</td> <td>71.86</td> <td>34.00</td> <td>10.34</td> <td>65.30</td> <td>100</td> <td>130</td> <td>Average</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>7380.00</td> <td>42.84</td> <td>-31.16</td> <td>74.00</td> <td>61.24</td> <td>35.78</td> <td>12.73</td> <td>66.91</td> <td>200</td> <td>0</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	dBm	dBm	dBm	dB	cm	deg			1	4920.00	55.66	-18.34	74.00	74.62	34.00	10.34	65.30	100	136	Peak	HORIZONTAL	2	4920.00	52.99	-3.10	54.00	71.86	34.00	10.34	65.30	100	130	Average	HORIZONTAL	3	7380.00	42.84	-31.16	74.00	61.24	35.78	12.73	66.91	200	0	Peak	HORIZONTAL	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 030805-K5 Condition : FCC PART 15C @ 3117.5M 00218442 VERTICAL Project : FR28116 Mode : 5 Plane : 无线干扰 Full-directivity IMEI : 85 PowerSetting : 50</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phase</th> </tr> <tr> <th>dBm</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4920.00</td> <td>53.51</td> <td>-20.49</td> <td>74.00</td> <td>74.47</td> <td>34.00</td> <td>10.34</td> <td>65.30</td> <td>298</td> <td>49</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>4920.00</td> <td>48.98</td> <td>-5.92</td> <td>54.00</td> <td>69.64</td> <td>34.00</td> <td>10.34</td> <td>65.30</td> <td>298</td> <td>49</td> <td>Average</td> <td>VERTICAL</td> </tr> <tr> <td>3</td> <td>7380.00</td> <td>42.79</td> <td>-25.71</td> <td>74.00</td> <td>61.69</td> <td>35.78</td> <td>12.73</td> <td>66.91</td> <td>100</td> <td>0</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	dBm	dBm	dBm	dB	cm	deg			1	4920.00	53.51	-20.49	74.00	74.47	34.00	10.34	65.30	298	49	Peak	VERTICAL	2	4920.00	48.98	-5.92	54.00	69.64	34.00	10.34	65.30	298	49	Average	VERTICAL	3	7380.00	42.79	-25.71	74.00	61.69	35.78	12.73	66.91	100	0	Peak	VERTICAL
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Note: Pre-scanned for 18GHz to 26GHz, there are no signals, thus only test data below 18GHz are shown in the report.



Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																					
ANT	802.11n HT20 LF																																																																																																																																																																																					
1	Horizontal	Vertical																																																																																																																																																																																				
QP / Peak	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technological Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 03D805-KS Condition : FCC PART 15C 3m CBL01110 SM23188 HORIZONTAL Project : RRM 100.0000MHz VBR 300.0000MHz SRT Auto Mode : FPO281116 Plane : 12 Polar : 天线罩罩 IMEI : Full-directivity Powersetting : 08</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>dBμ</th> <th>dBμ/100MHz</th> <th>dBμ/100MHz</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>130.88</td> <td>16.42</td> <td>-22.08</td> <td>43.50</td> <td>30.85</td> <td>16.67</td> <td>1.74</td> <td>32.84</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>182.29</td> <td>18.72</td> <td>-24.78</td> <td>43.50</td> <td>33.73</td> <td>15.97</td> <td>2.05</td> <td>32.83</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>241.46</td> <td>20.87</td> <td>-26.12</td> <td>46.00</td> <td>33.38</td> <td>17.90</td> <td>2.32</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>272.50</td> <td>23.48</td> <td>-22.53</td> <td>46.00</td> <td>34.92</td> <td>18.83</td> <td>2.55</td> <td>32.79</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>400.54</td> <td>21.56</td> <td>-24.94</td> <td>46.00</td> <td>29.15</td> <td>21.69</td> <td>3.05</td> <td>32.83</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>647.89</td> <td>25.53</td> <td>-20.47</td> <td>46.00</td> <td>29.39</td> <td>25.21</td> <td>3.88</td> <td>32.95</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	dBμ	dBμ/100MHz	dBμ/100MHz	dB	dB	dB	dB	dB	deg	1	130.88	16.42	-22.08	43.50	30.85	16.67	1.74	32.84	---	Peak	HORIZONTAL	2	182.29	18.72	-24.78	43.50	33.73	15.97	2.05	32.83	---	Peak	HORIZONTAL	3	241.46	20.87	-26.12	46.00	33.38	17.90	2.32	32.78	---	Peak	HORIZONTAL	4	272.50	23.48	-22.53	46.00	34.92	18.83	2.55	32.79	---	Peak	HORIZONTAL	5	400.54	21.56	-24.94	46.00	29.15	21.69	3.05	32.83	---	Peak	HORIZONTAL	6	647.89	25.53	-20.47	46.00	29.39	25.21	3.88	32.95	---	Peak	HORIZONTAL	<p>No. 1098, Pengzi North Road, Kunshan Economic & Technological Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 03D805-KS Condition : FCC PART 15C 3m CBL01110 SM23188 VERTICAL Project : RRM 100.0000MHz VBR 300.0000MHz SRT Auto Mode : FPO281116 Plane : 12 Polar : 天线罩罩 IMEI : Full-directivity Powersetting : 08</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>dBμ</th> <th>dBμ/100MHz</th> <th>dBμ/100MHz</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>37.76</td> <td>22.51</td> <td>-17.49</td> <td>40.00</td> <td>34.23</td> <td>20.25</td> <td>0.85</td> <td>32.92</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>177.44</td> <td>22.30</td> <td>-21.20</td> <td>43.00</td> <td>37.24</td> <td>15.87</td> <td>2.02</td> <td>32.83</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>3</td> <td>272.50</td> <td>21.85</td> <td>-24.19</td> <td>46.00</td> <td>33.75</td> <td>18.83</td> <td>2.52</td> <td>32.79</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>4</td> <td>400.54</td> <td>23.07</td> <td>-22.93</td> <td>46.00</td> <td>31.56</td> <td>21.69</td> <td>3.05</td> <td>32.83</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>5</td> <td>511.17</td> <td>23.65</td> <td>-22.25</td> <td>46.00</td> <td>29.23</td> <td>23.92</td> <td>3.45</td> <td>32.96</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>6</td> <td>880.69</td> <td>31.59</td> <td>-14.41</td> <td>46.00</td> <td>32.44</td> <td>26.64</td> <td>4.54</td> <td>32.03</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	dBμ	dBμ/100MHz	dBμ/100MHz	dB	dB	dB	dB	dB	deg	1	37.76	22.51	-17.49	40.00	34.23	20.25	0.85	32.92	---	Peak	VERTICAL	2	177.44	22.30	-21.20	43.00	37.24	15.87	2.02	32.83	---	Peak	VERTICAL	3	272.50	21.85	-24.19	46.00	33.75	18.83	2.52	32.79	---	Peak	VERTICAL	4	400.54	23.07	-22.93	46.00	31.56	21.69	3.05	32.83	---	Peak	VERTICAL	5	511.17	23.65	-22.25	46.00	29.23	23.92	3.45	32.96	---	Peak	VERTICAL	6	880.69	31.59	-14.41	46.00	32.44	26.64	4.54	32.03	---	Peak	VERTICAL
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Appendix E. Duty Cycle Plots

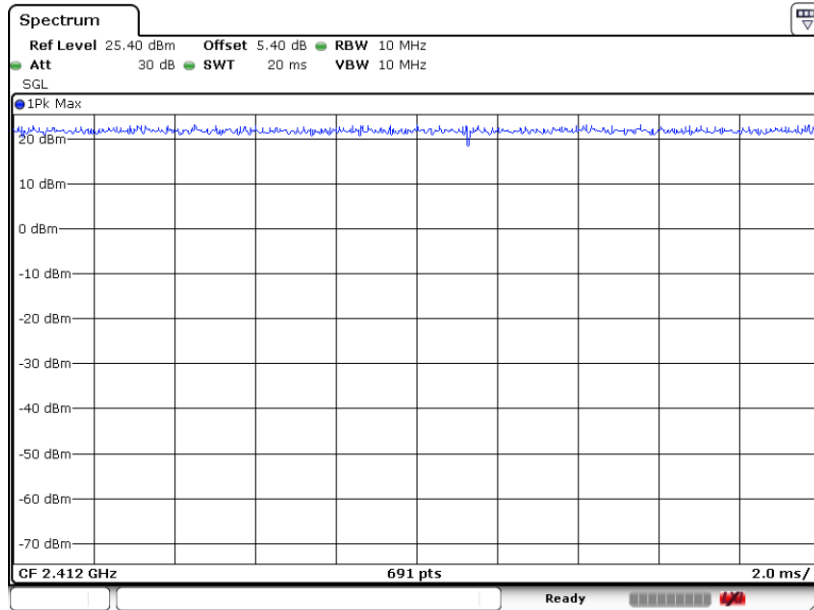
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	110	-	-	10Hz
802.11n HT20	100	-	-	10Hz
802.11n HT40	98.85	-	-	10Hz

802.11b

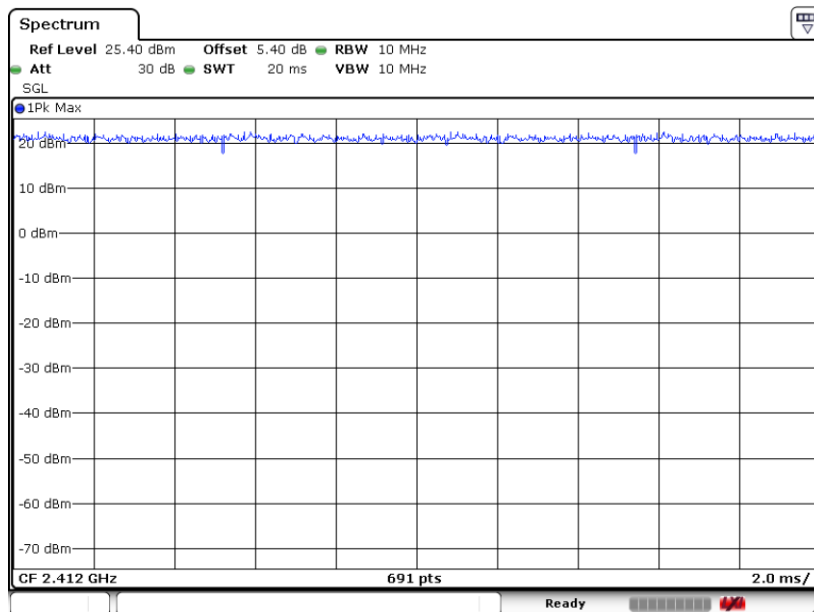




802.11g



802.11n HT20





802.11n HT40

