



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2169-1
FCC ID : IHDT56ZW3
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Aug. 23, 2021 ~ Sep. 24, 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(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 3.23 dB at 2483.50 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.85 dB at 0.197 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2169-1
FCC ID	IHDT56ZW3
IMEI Code	Conducted: 350662070020055/350662070020063 Conduction: 350662070023679/350662070023687 Radiation: 350662070021855
HW Version	DVT2
SW Version	RRUB31.Q3-46
EUT Stage	Identical Prototype

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 : 21.90 dBm (0.1549 W) 802.11g : 23.13 dBm (0.2056 W) 802.11n HT20 : 22.72 dBm (0.1871 W)
Antenna Type / Gain	PIFA Antenna with gain -4.00 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 03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-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.

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Salcomp)	Model Name	MC-331
AC Adapter 1(EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-332
AC Adapter 1(UK)	Brand Name	Motorola (Salcomp)	Model Name	MC-333
AC Adapter 1(AU)	Brand Name	Motorola (Salcomp)	Model Name	MC-335
AC Adapter 1(AR)	Brand Name	Motorola (Salcomp)	Model Name	MC-336
AC Adapter 1(BR)	Brand Name	Motorola (Salcomp)	Model Name	MC-337
AC Adapter 1(PRC)	Brand Name	Motorola (Salcomp)	Model Name	MC-338
AC Adapter 1(CHILE)	Brand Name	Motorola (Salcomp)	Model Name	MC-339
AC Adapter 2(IN)	Brand Name	Motorola (Salcomp)	Model Name	MC-334
AC Adapter 3(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-331
AC Adapter 3(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-332
AC Adapter 3(AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-335
AC Adapter 3(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-336
AC Adapter 3(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-337
AC Adapter 4(US)	Brand Name	Motorola (Acbel)	Model Name	MC-331
AC Adapter 4(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-332
AC Adapter 4(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-333
Battery 1	Brand Name	Motorola (ATL)	Model Name	NG50
Battery 2	Brand Name	Motorola (Sunwoda)	Model Name	NG50
Earphone 1	Brand Name	Motorola (Lyand)	Model Name	MH191(SH38C81577)
Earphone 2	Brand Name	Motorola (LCHSE)	Model Name	MH191(SH38C81576)
USB Cable 1	Brand Name	Motorola (Saibao)	Model Name	SC18D22297
USB Cable 2	Brand Name	Motorola (Cabletech)	Model Name	SC18D22298
USB Cable 3	Brand Name	Motorola (Luxshare)	Model Name	SC18D22299



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 (Z 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

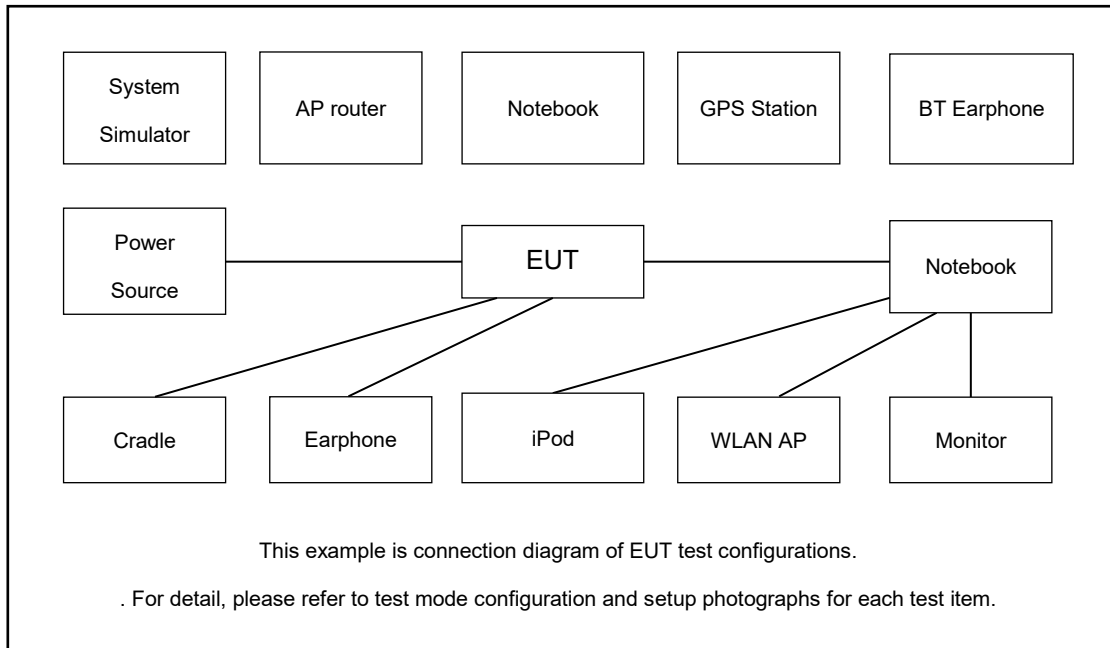
Final test modes are considering the modulation and worse data rates as below table.

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

Co-location
802.11n20 CH11 + LTE Band 13

Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 1(Charging from Adapter1) + Earphone 1+ Battery 1
Remark:	
<ol style="list-style-type: none"> For Radiated Test Cases, The tests were performed with Adapter 1, Battery 1, Earphone 1 and USB Cable 1. The Co-location mode is assessed from WWAN RSE worst mode and WLAN RSE worst mode. 	

2.3 Connection Diagram of Test System



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.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	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 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 6.00 dB.

Offset(dB) = RF cable loss(dB).
= 6.00 (dB)

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB 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. Measure and record the results in the test report.

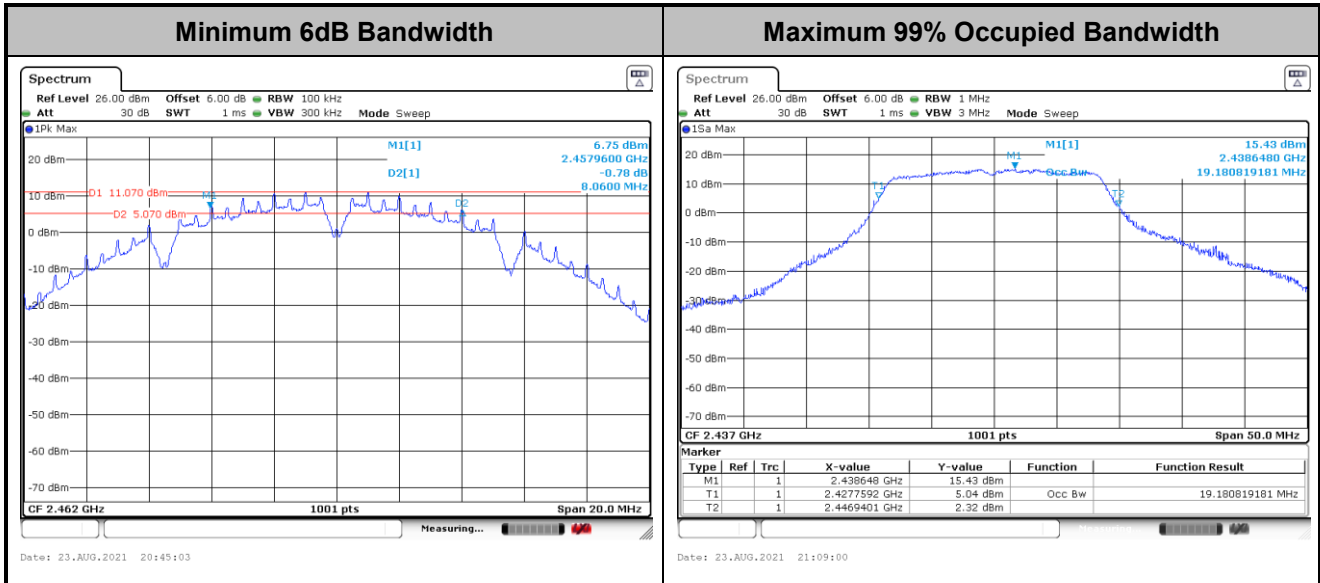
3.1.4 Test Setup





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.

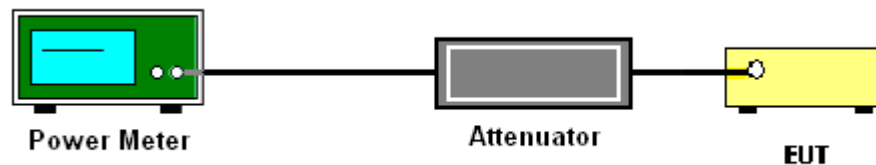
3.2.2 Measuring Instruments

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 11.9.2.3.2 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.

3.2.4 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.

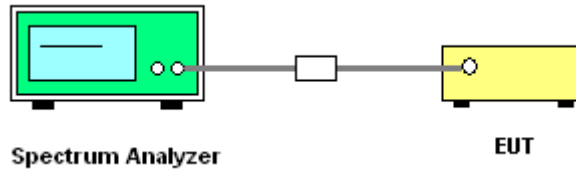
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

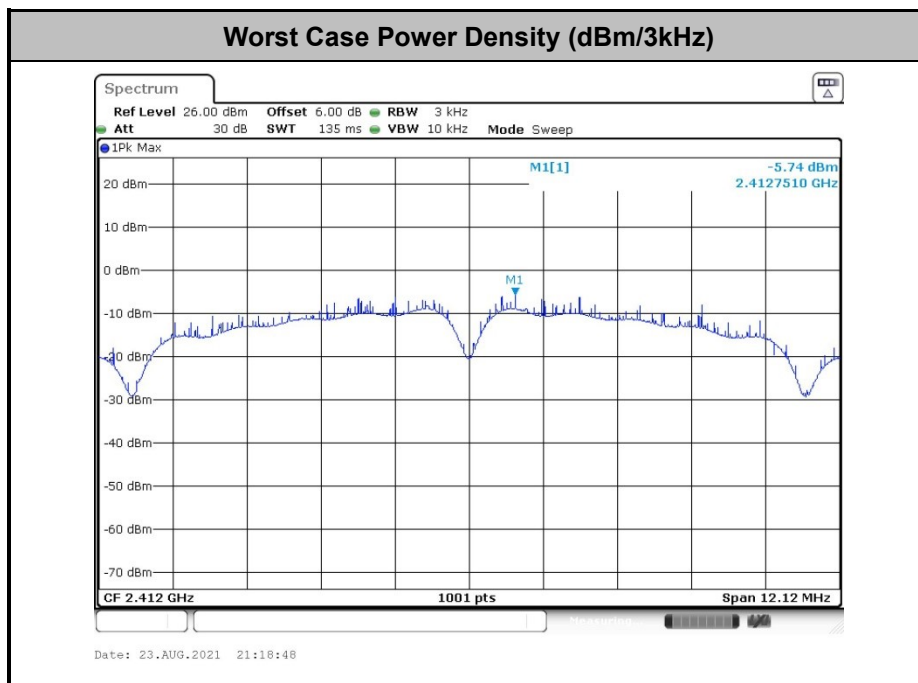
1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the 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.

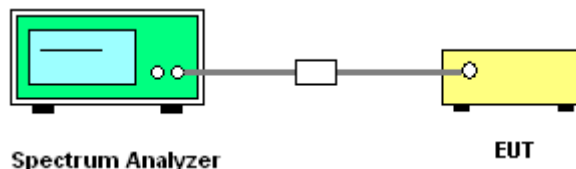
3.4.2 Measuring Instruments

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

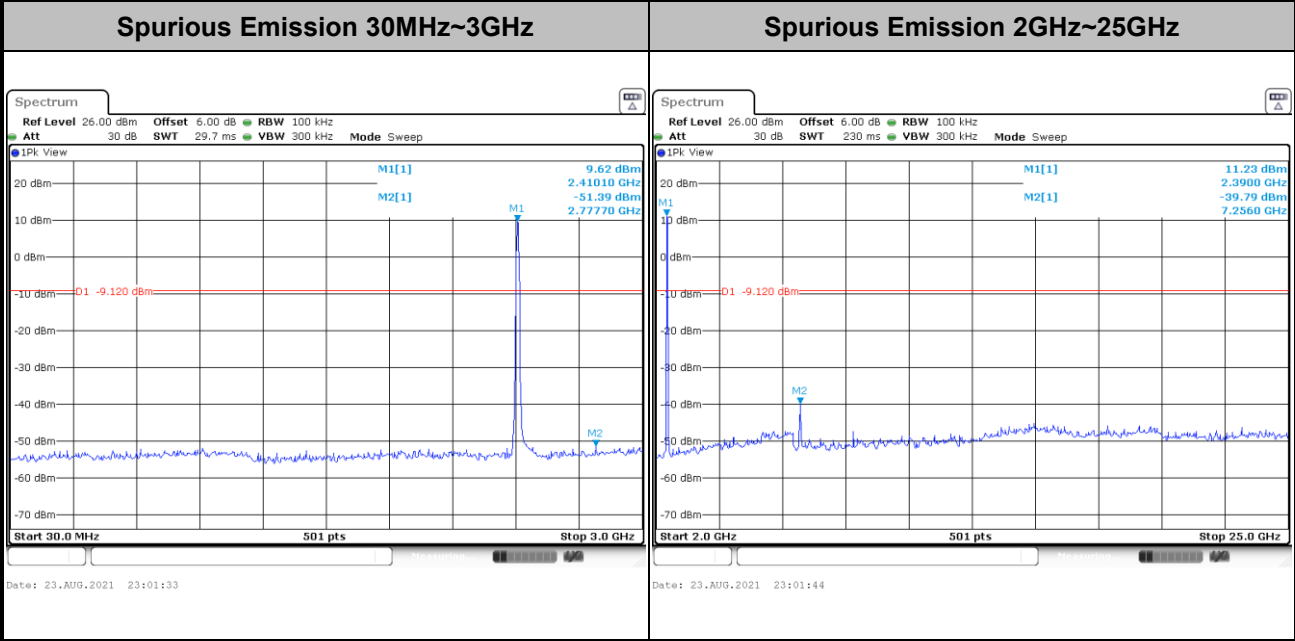
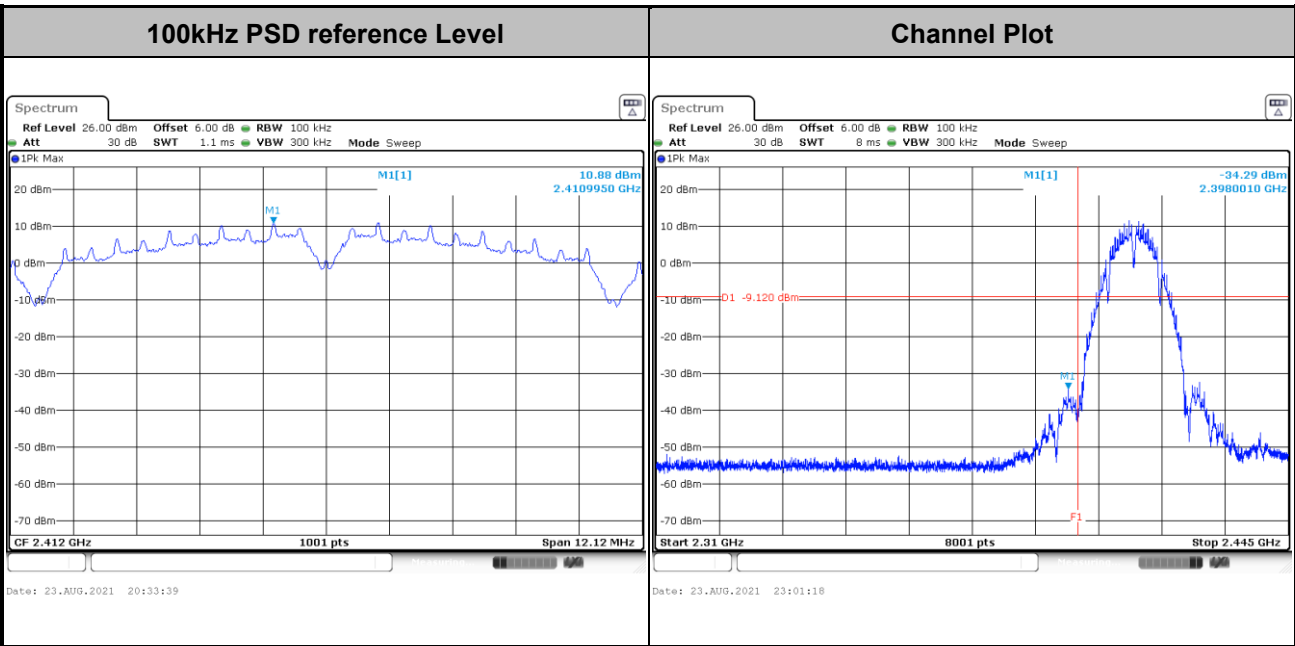




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

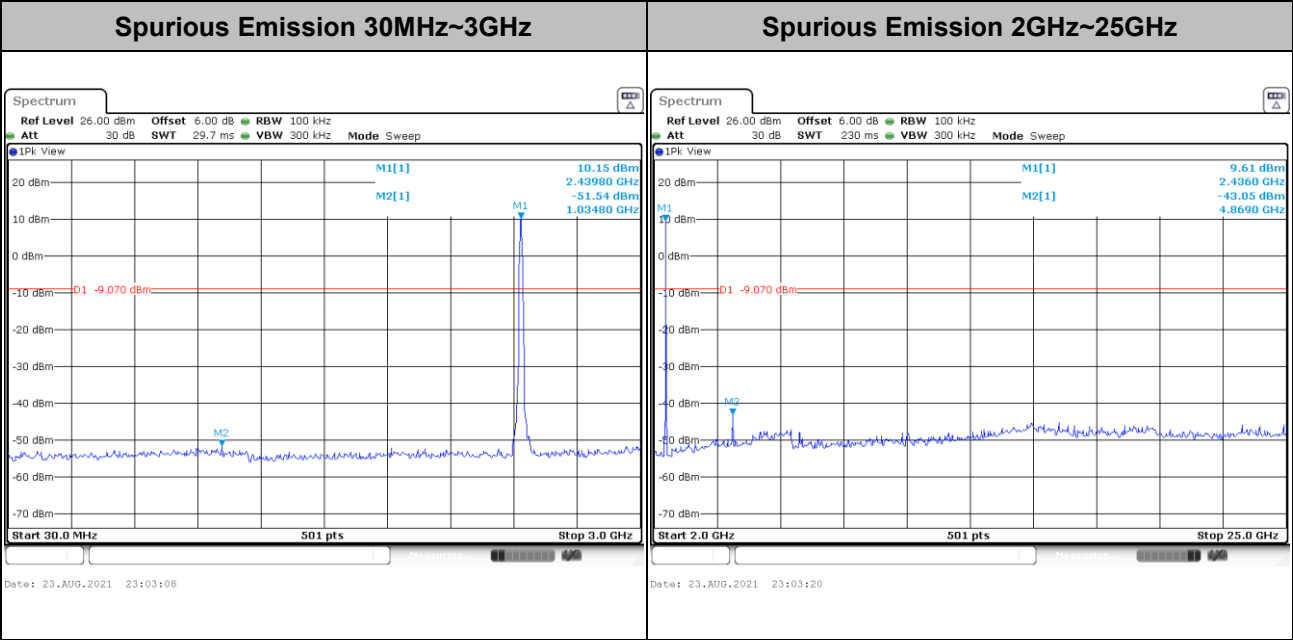
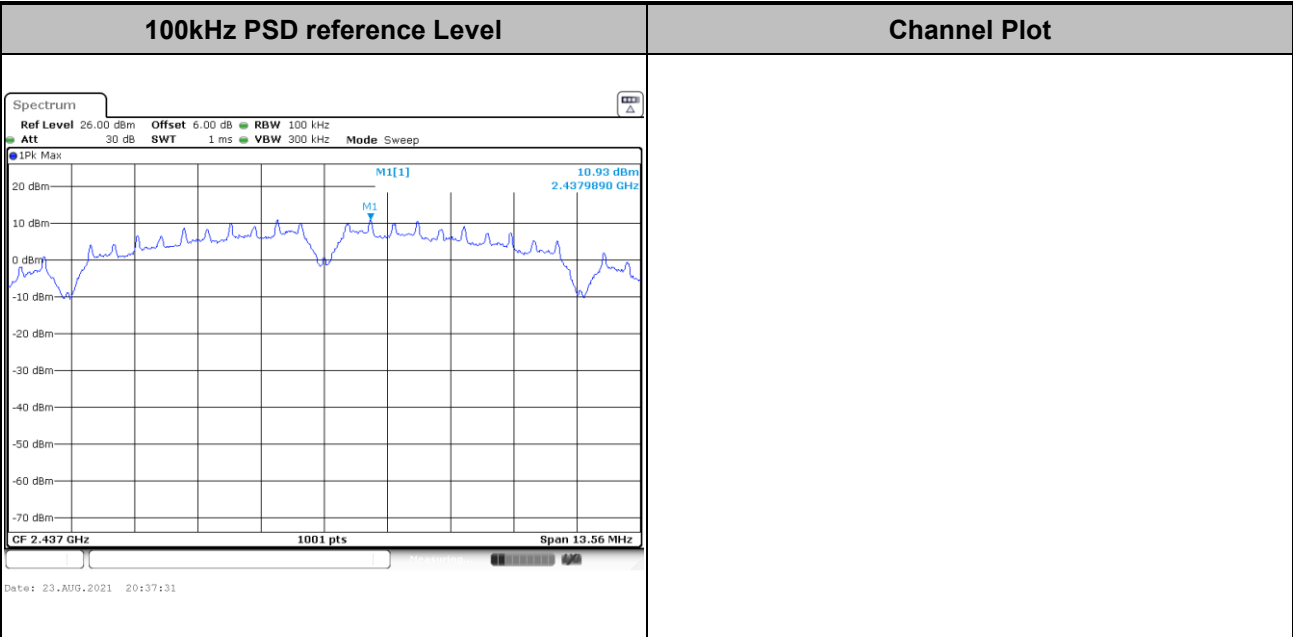
Test Engineer : HeYong	Temperature :	21~25°C
	Relative Humidity :	51~54%

Test Mode :	802.11b	Test Channel :	01
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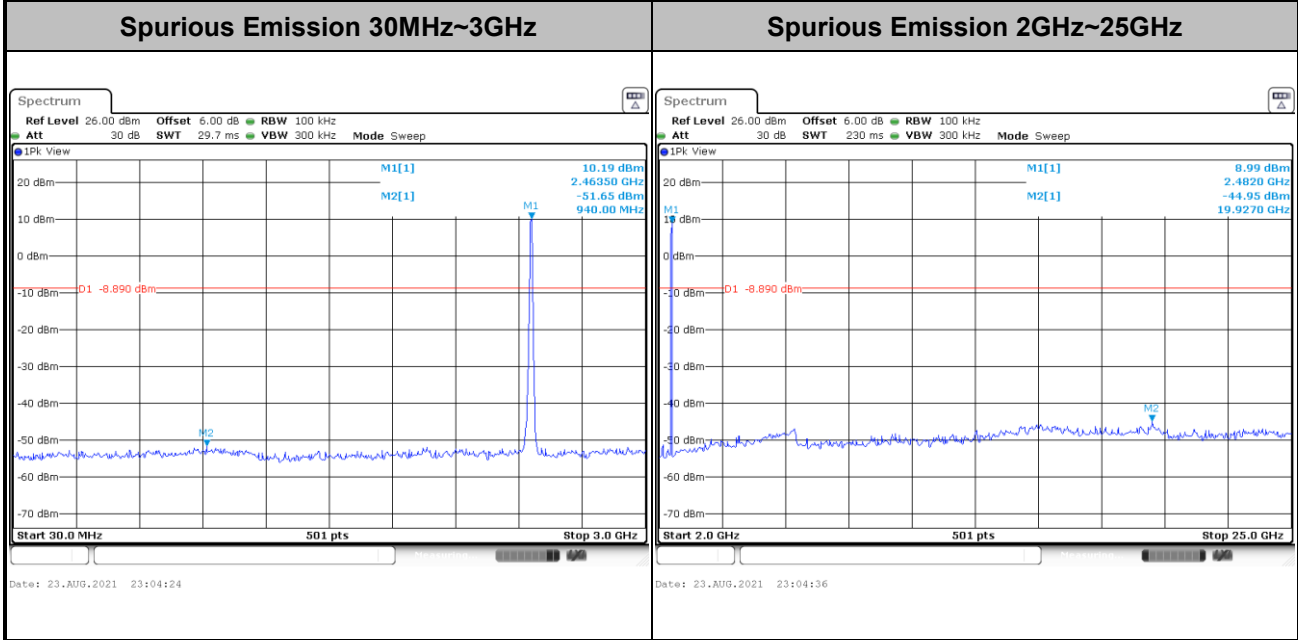
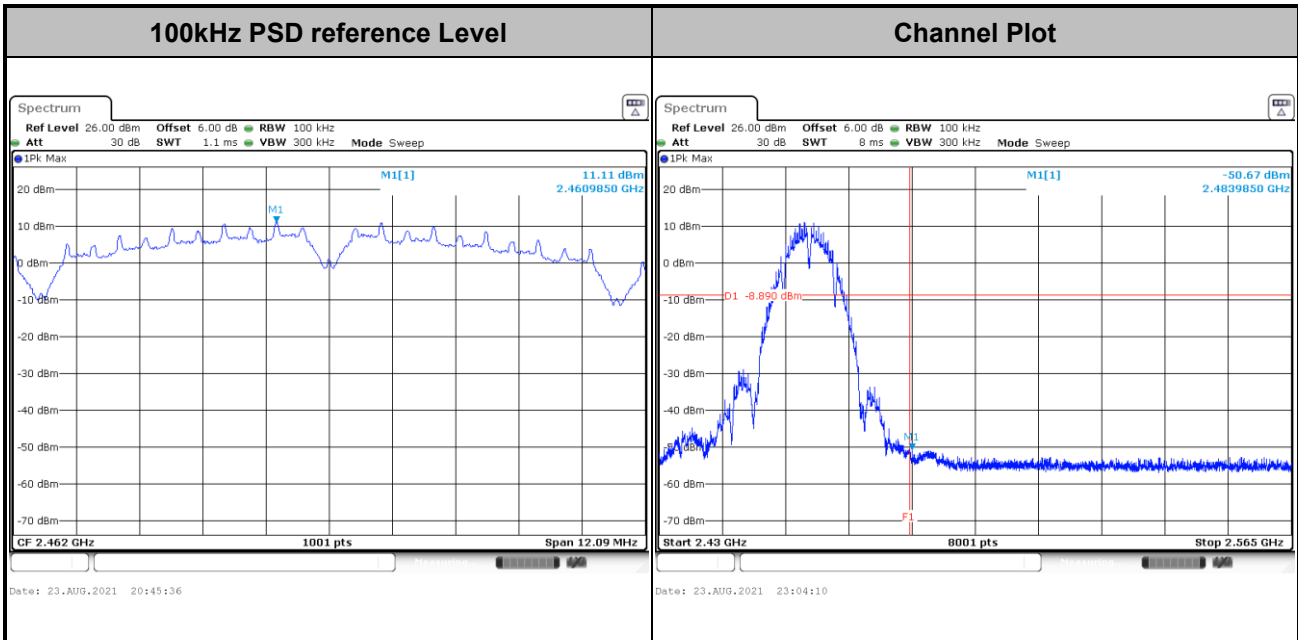


Test Mode :	802.11b	Test Channel :	06
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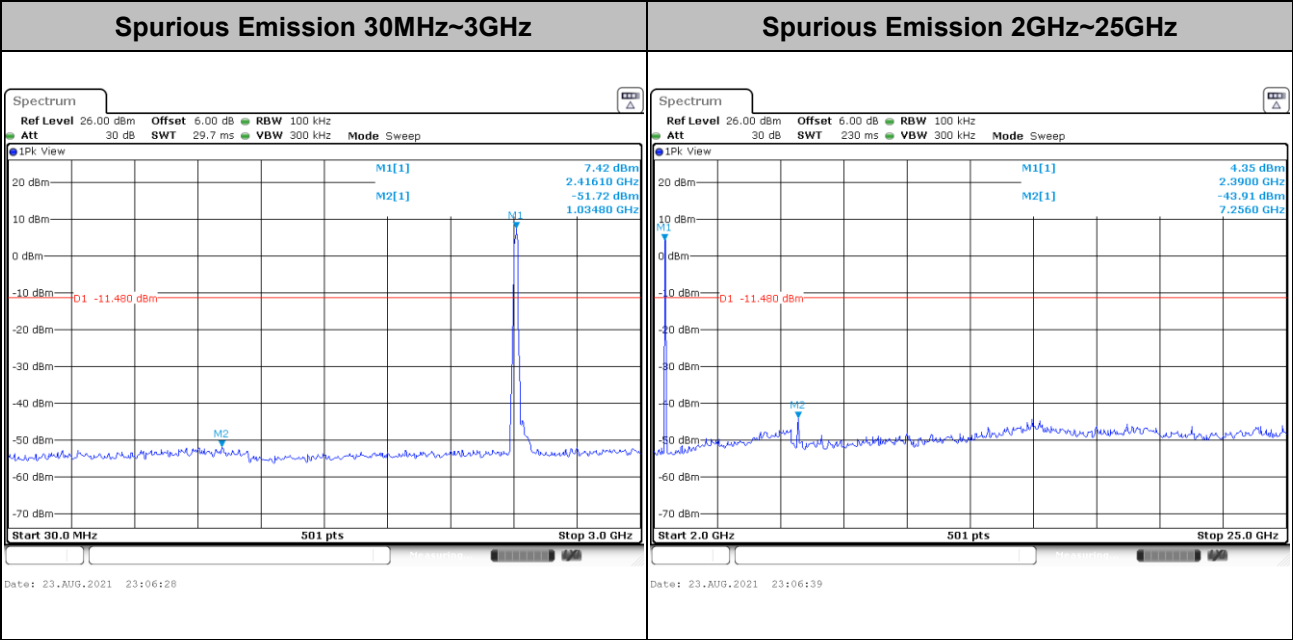
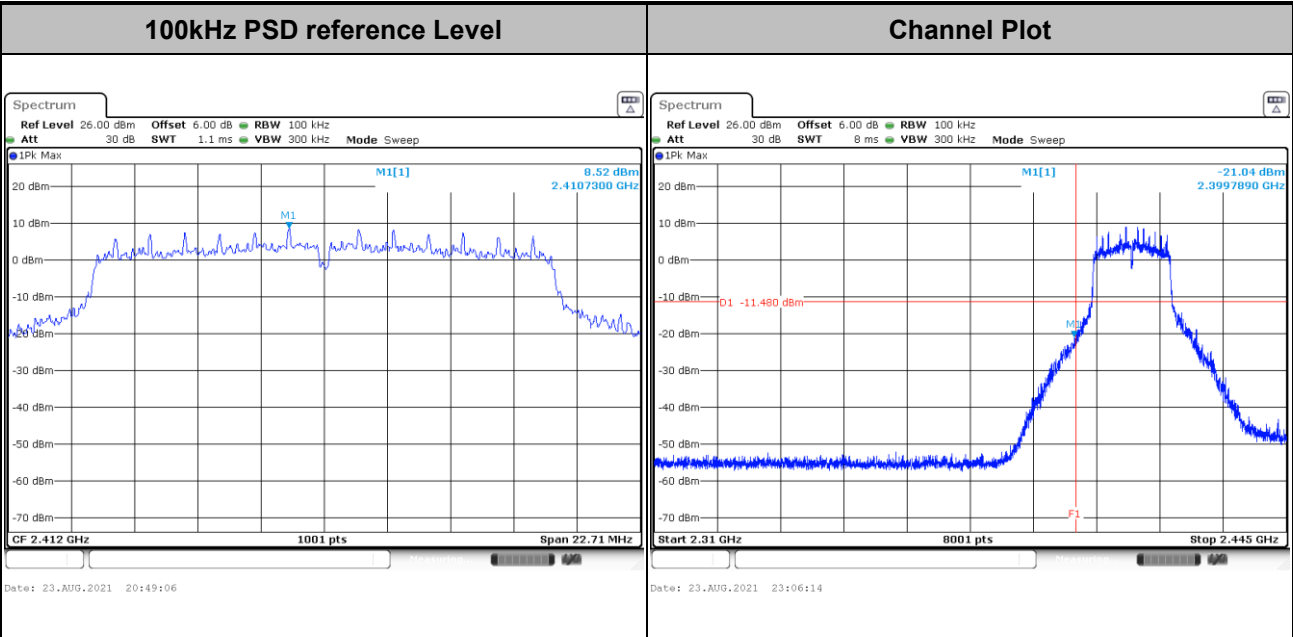


Test Mode :	802.11b	Test Channel :	11
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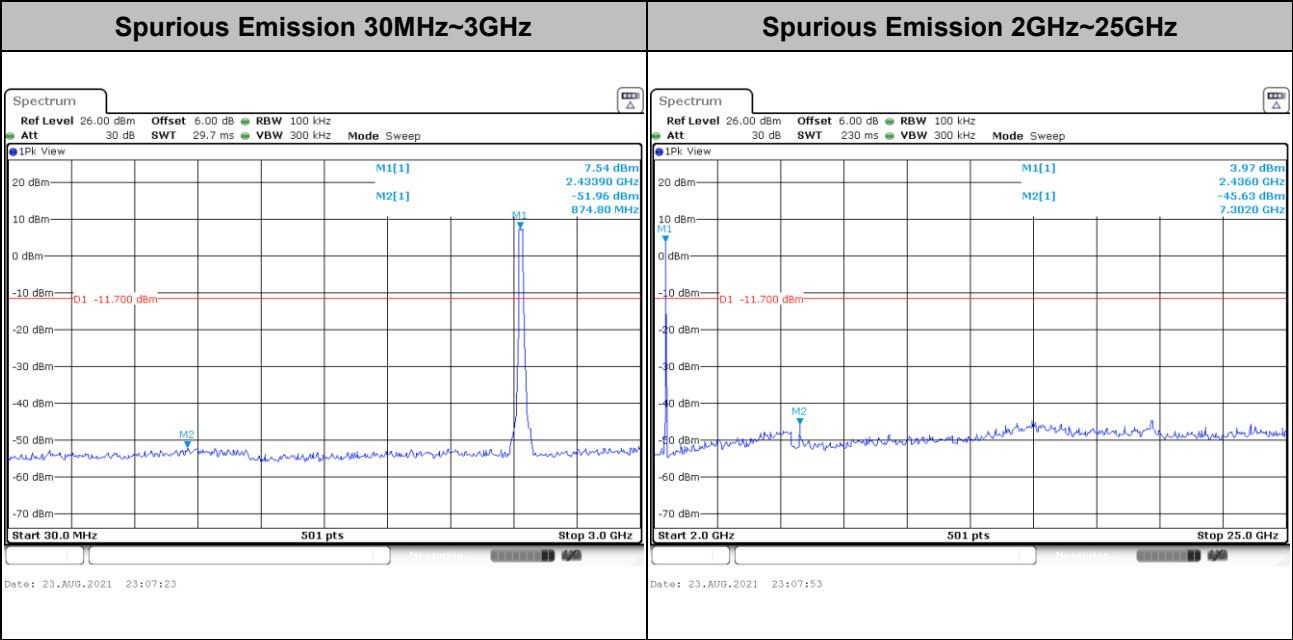
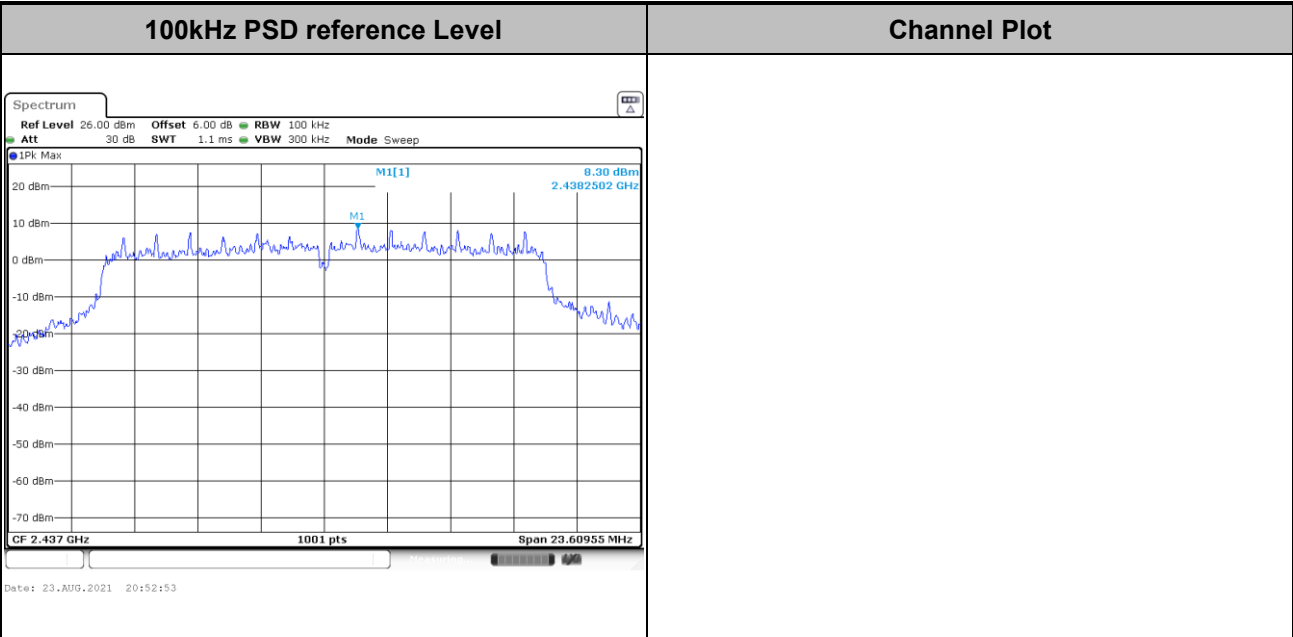


Test Mode : 802.11g Test Channel : 01



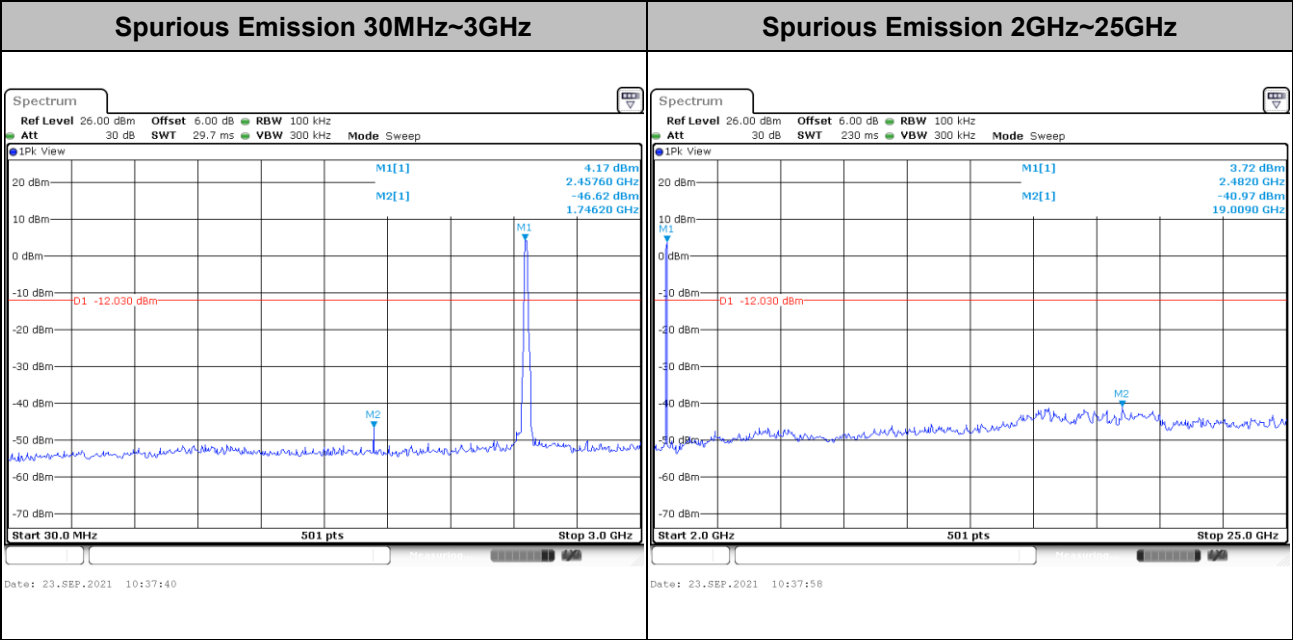
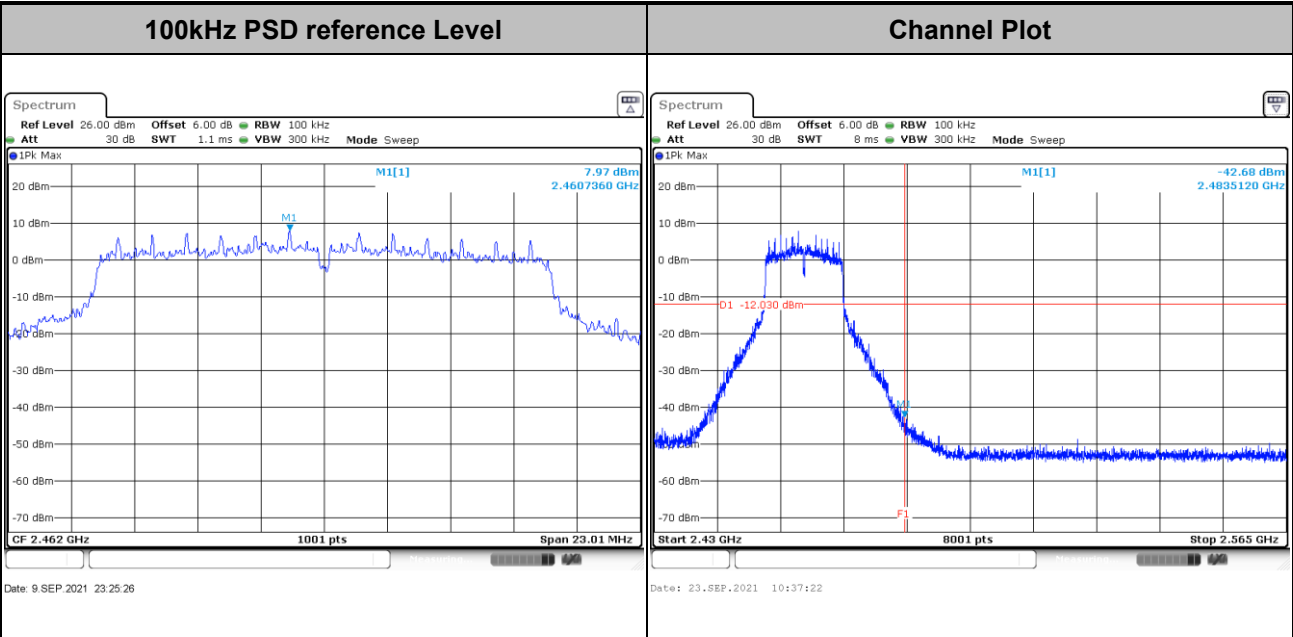


Test Mode :	802.11g	Test Channel :	06
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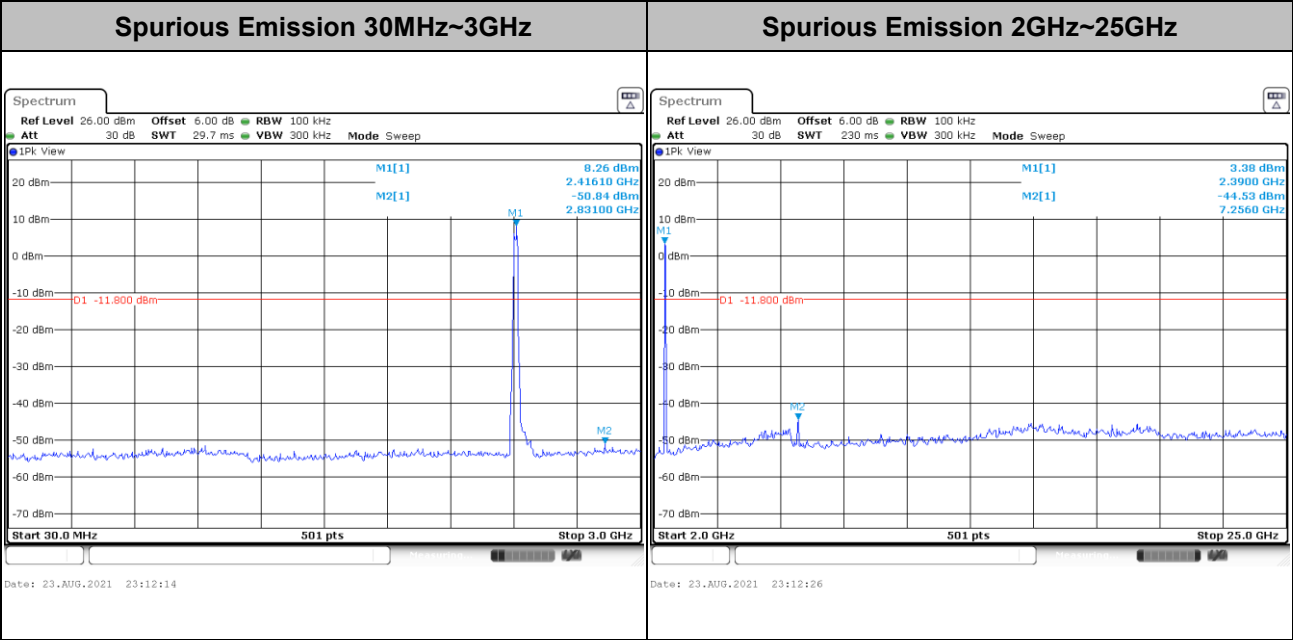
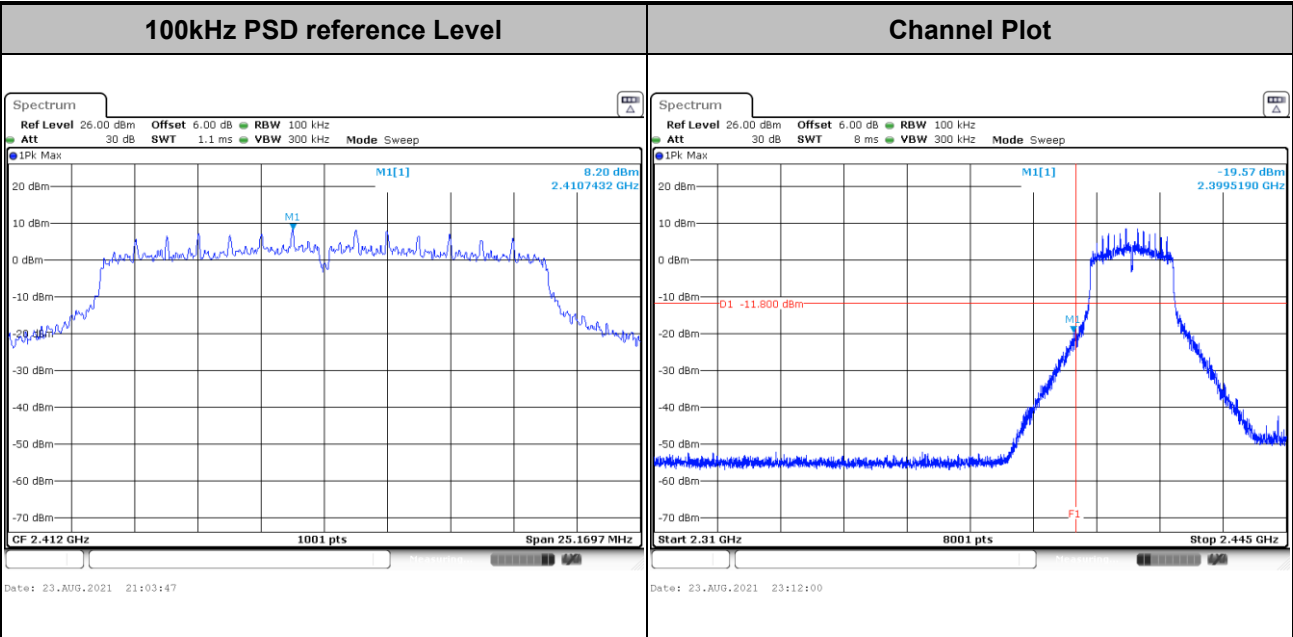


Test Mode :	802.11g	Test Channel :	11
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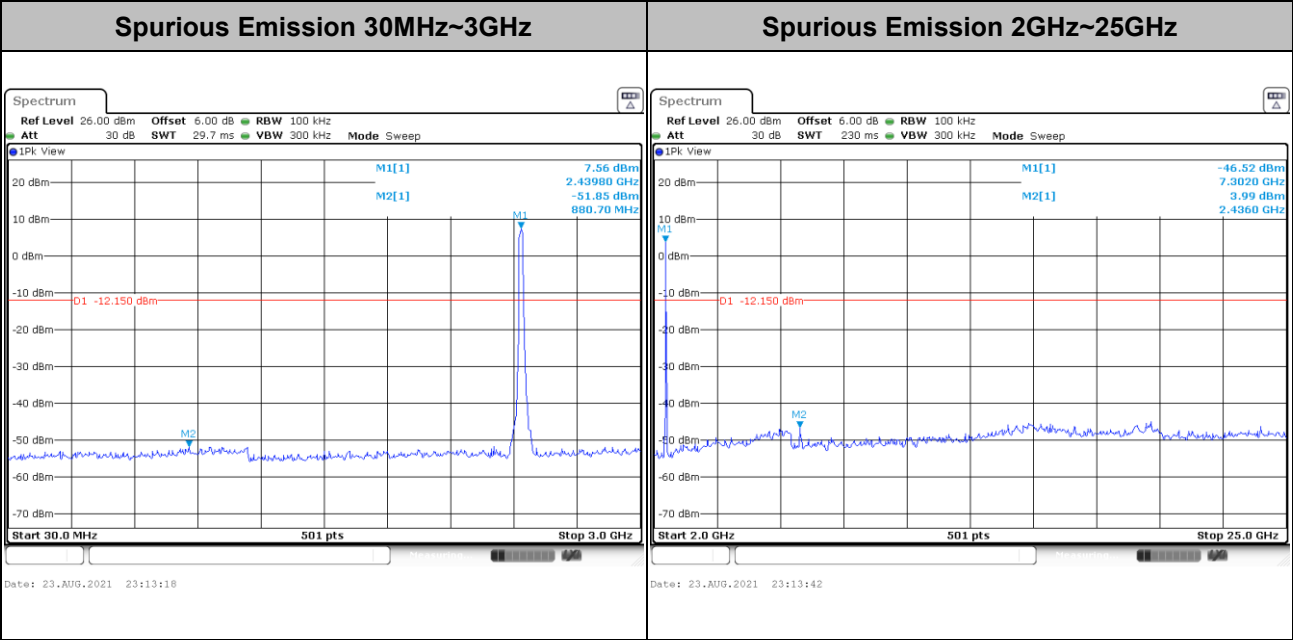
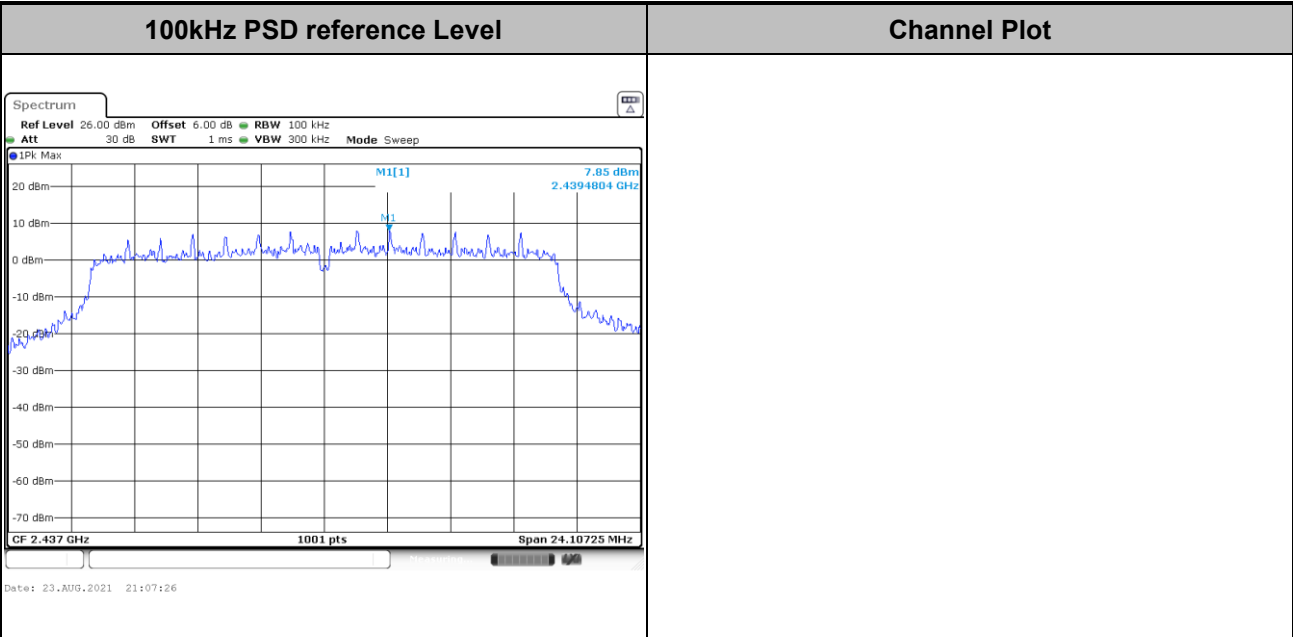


Test Mode : 802.11n HT20 Test Channel : 01



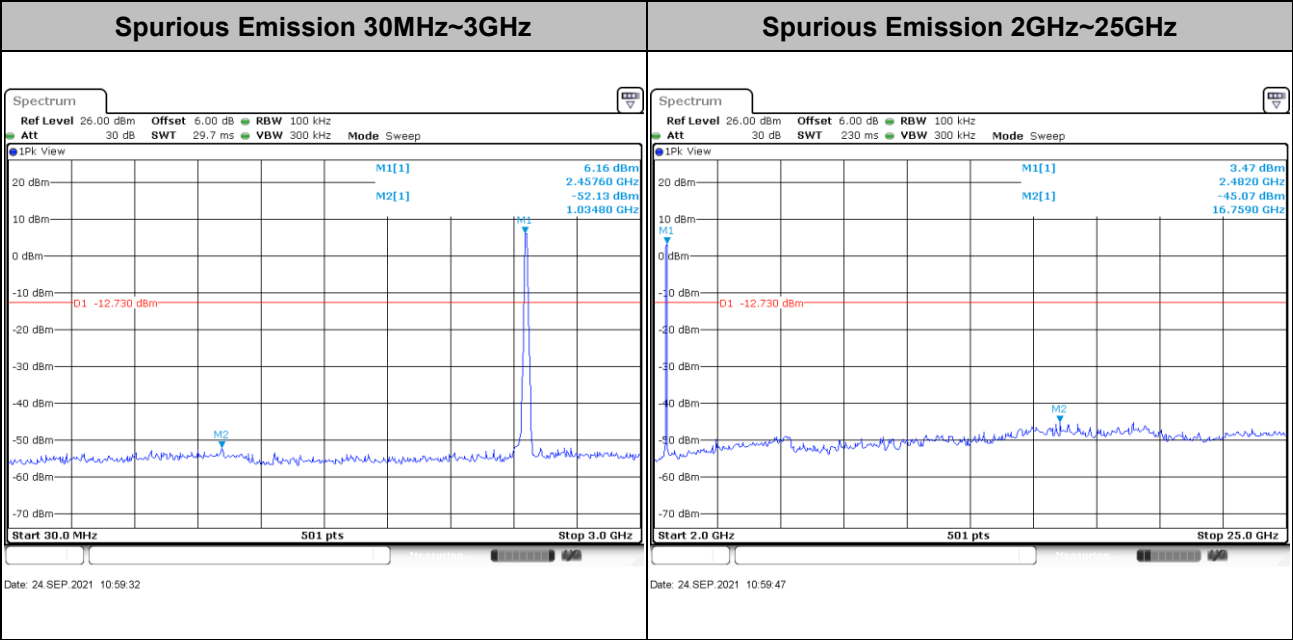
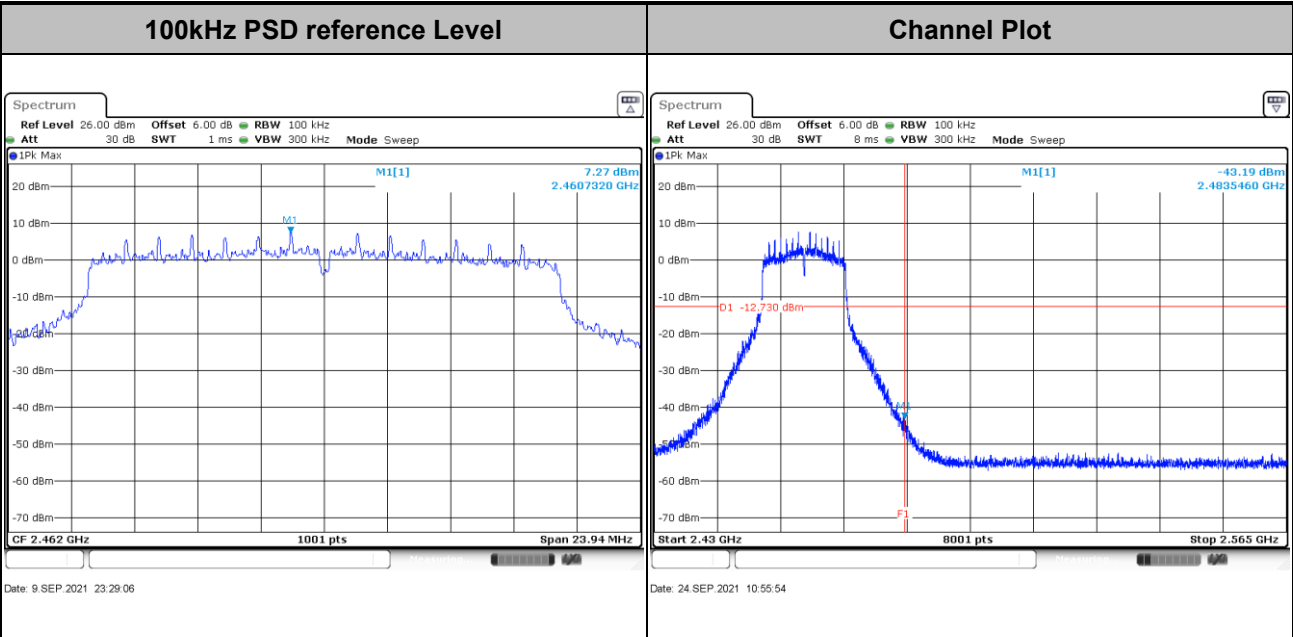


Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

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.

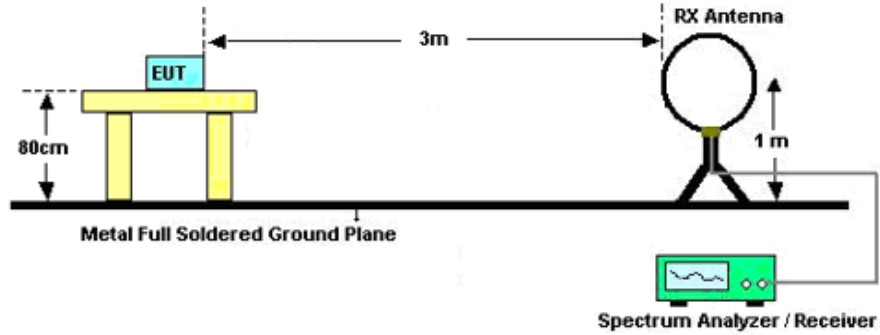


3.5.3 Test Procedures

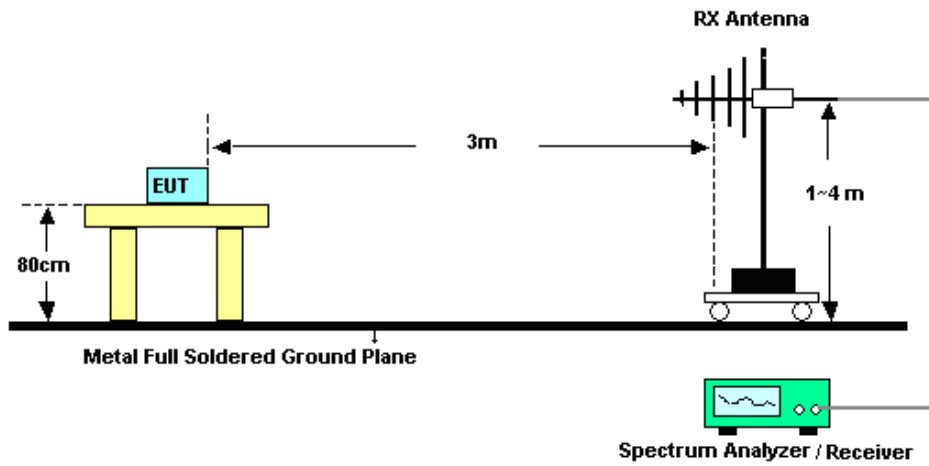
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better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

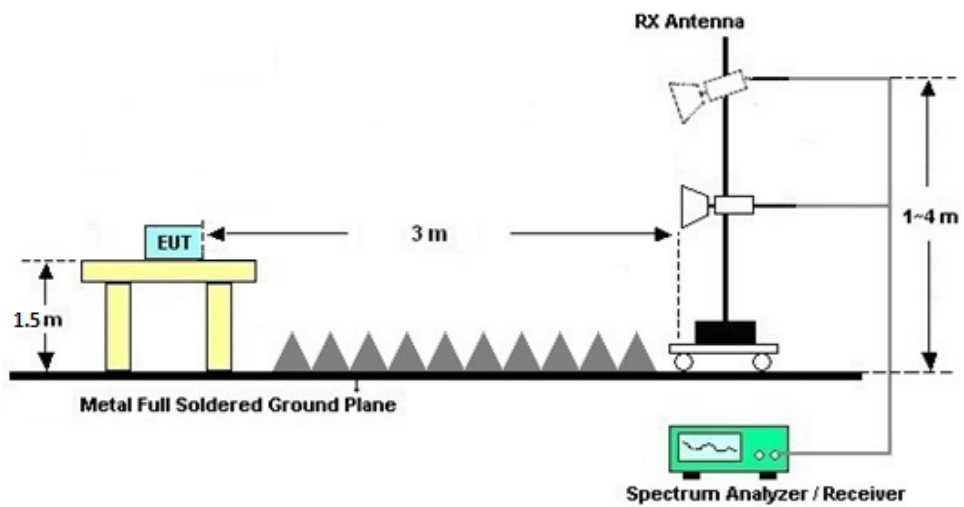
For radiated emissions below 30MHz



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.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

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 (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.

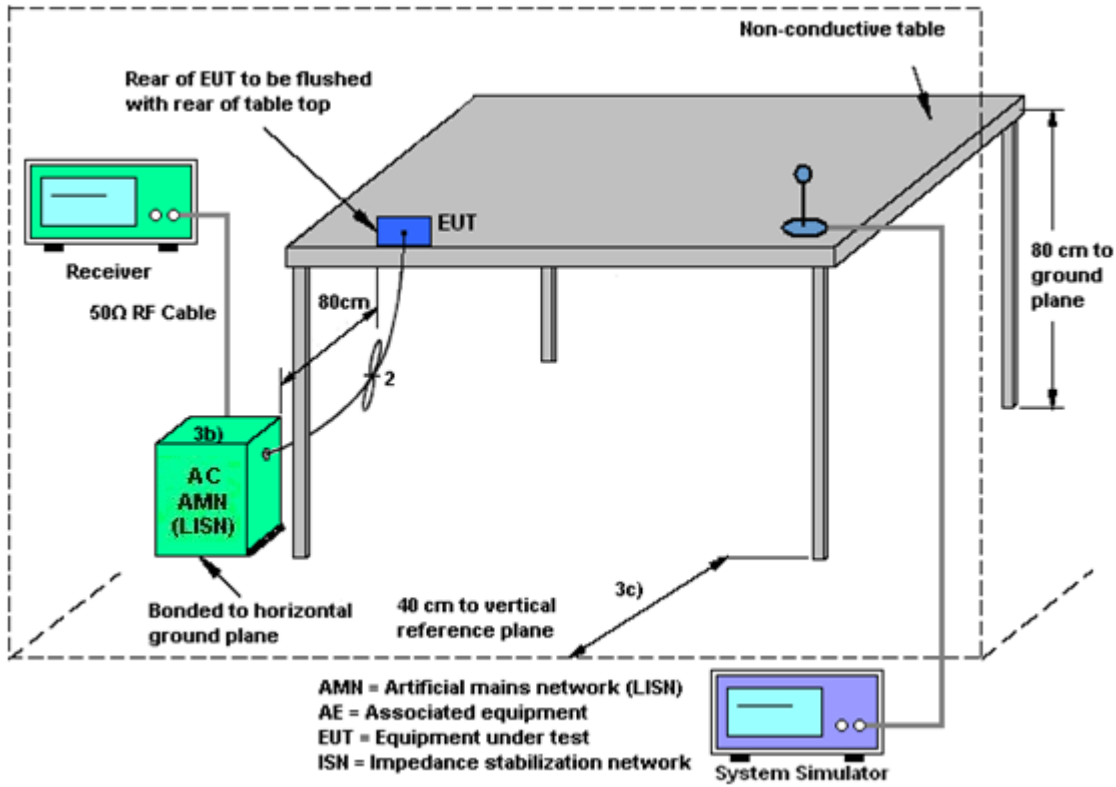
3.6.2 Measuring Instruments

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

An embedded-in antenna design 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
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 21, 2021	Sep. 14, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Sep. 14, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Sep. 14, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Sep. 14, 2021	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 17, 2020	Sep. 09, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 12, 2021	Sep. 09, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Sep. 09, 2021	Oct. 31, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 29, 2021	Sep. 09, 2021	May 28, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Sep. 09, 2021	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Sep. 09, 2021	Nov. 09, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Sep. 09, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Sep. 09, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Sep. 09, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	Sep. 09, 2021	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 09, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 09, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 09, 2021	NCR	Radiation (03CH06-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	Aug. 23, 2021~Sep. 24, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Aug. 23, 2021~Sep. 24, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Aug. 23, 2021~Sep. 24, 2021	Jan. 06, 2022	Conducted (TH01-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
---	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

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
---	-------

———— THE END ————



Appendix A. Conducted Test Results

A1 - DTS Part

Test Engineer:	HeYong	Temperature:	21~25	°C
Test Date:	2021/8/23~2021/9/09	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	13.94	8.08	0.50	Pass
11b	1Mbps	1	6	2437	14.44	9.04	0.50	Pass
11b	1Mbps	1	11	2462	14.24	8.06	0.50	Pass
11g	6Mbps	1	1	2412	17.48	15.14	0.50	Pass
11g	6Mbps	1	6	2437	17.98	15.74	0.50	Pass
11g	6Mbps	1	11	2462	17.63	15.34	0.50	Pass
HT20	MCS0	1	1	2412	18.73	16.78	0.50	Pass
HT20	MCS0	1	6	2437	19.18	16.07	0.50	Pass
HT20	MCS0	1	11	2462	18.68	15.96	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	21.61	30.00	-4.00	17.61	36.00	Pass
11b	1Mbps	1	6	2437	21.79	30.00	-4.00	17.79	36.00	Pass
11b	1Mbps	1	11	2462	21.90	30.00	-4.00	17.90	36.00	Pass
11g	6Mbps	1	1	2412	22.82	30.00	-4.00	18.82	36.00	Pass
11g	6Mbps	1	6	2437	23.13	30.00	-4.00	19.13	36.00	Pass
11g	6Mbps	1	11	2462	22.28	30.00	-4.00	18.28	36.00	Pass
HT20	MCS0	1	1	2412	22.38	30.00	-4.00	18.38	36.00	Pass
HT20	MCS0	1	6	2437	22.72	30.00	-4.00	18.72	36.00	Pass
HT20	MCS0	1	11	2462	21.57	30.00	-4.00	17.57	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

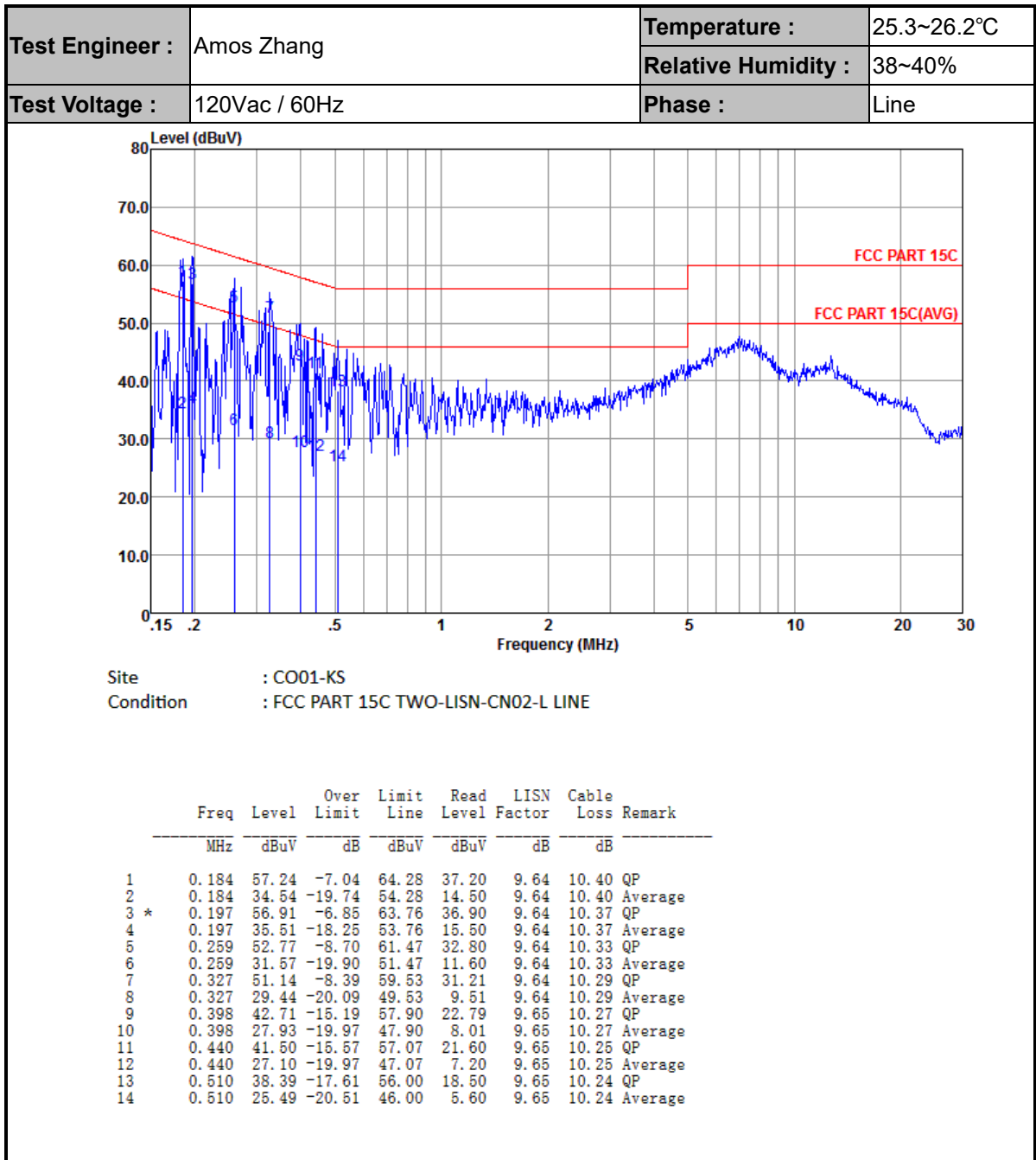
2.4GHz Band						
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.05	19.30
11b	1Mbps	1	6	2437	0.05	19.73
11b	1Mbps	1	11	2462	0.05	19.41
11g	6Mbps	1	1	2412	0.11	18.47
11g	6Mbps	1	6	2437	0.11	18.72
11g	6Mbps	1	11	2462	0.11	17.73
HT20	MCS0	1	1	2412	0.12	17.54
HT20	MCS0	1	6	2437	0.12	18.15
HT20	MCS0	1	11	2462	0.12	16.83

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	-5.74	-4.00	8.00	Pass
11b	1Mbps	1	6	2437	-6.11	-4.00	8.00	Pass
11b	1Mbps	1	11	2462	-6.14	-4.00	8.00	Pass
11g	6Mbps	1	1	2412	-6.95	-4.00	8.00	Pass
11g	6Mbps	1	6	2437	-6.87	-4.00	8.00	Pass
11g	6Mbps	1	11	2462	-8.37	-4.00	8.00	Pass
HT20	MCS0	1	1	2412	-8.19	-4.00	8.00	Pass
HT20	MCS0	1	6	2437	-7.90	-4.00	8.00	Pass
HT20	MCS0	1	11	2462	-8.70	-4.00	8.00	Pass

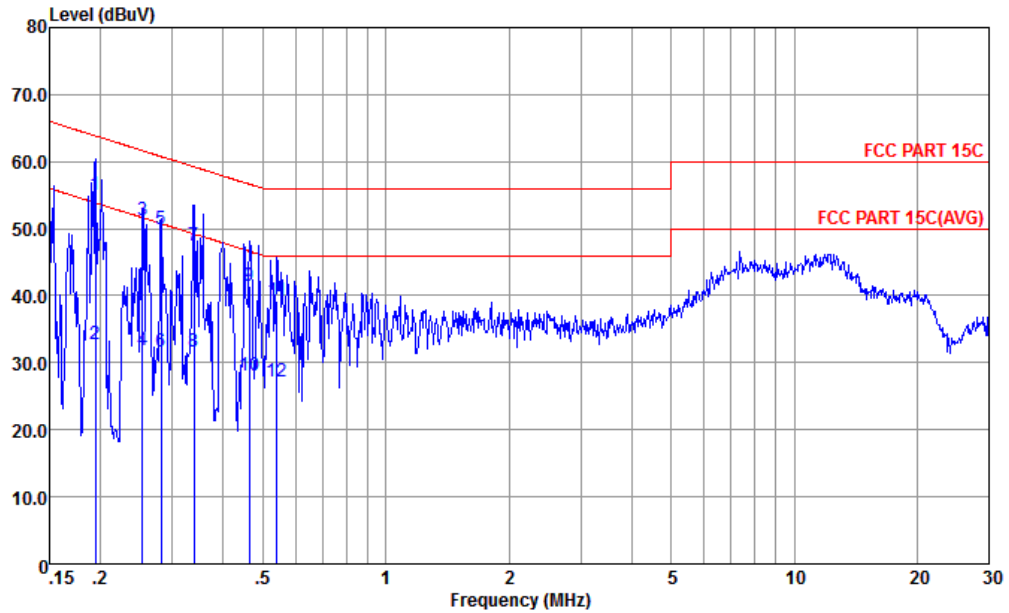


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
 Condition : FCC PART 15C TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.194	55.06	-8.78	63.84	34.81	9.88	10.37	QP
2	0.194	32.86	-20.98	53.84	12.61	9.88	10.37	Average
3	0.253	51.27	-10.37	61.64	31.11	9.83	10.33	QP
4	0.253	31.77	-19.87	51.64	11.61	9.83	10.33	Average
5	0.282	50.02	-10.74	60.76	29.90	9.80	10.32	QP
6	0.282	31.62	-19.14	50.76	11.50	9.80	10.32	Average
7	0.339	47.57	-11.65	59.22	27.50	9.78	10.29	QP
8	0.339	31.67	-17.55	49.22	11.60	9.78	10.29	Average
9	0.464	41.48	-15.15	56.63	21.49	9.74	10.25	QP
10	0.464	28.08	-18.55	46.63	8.09	9.74	10.25	Average
11	0.541	39.16	-16.84	56.00	19.19	9.73	10.24	QP
12	0.541	27.16	-18.84	46.00	7.19	9.73	10.24	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

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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		2381.37	55.16	-18.84	74	49.38	32.1	7.13	33.45	113	360	P	H
		2389.3	44.65	-9.35	54	38.79	32.15	7.16	33.45	113	360	A	H
	*	2414	106.47	-	-	100.53	32.2	7.18	33.44	113	360	P	H
	*	2414	103.31	-	-	97.37	32.2	7.18	33.44	113	360	A	H
		2389.04	56.95	-17.05	74	49.74	33.5	7.16	33.45	100	247	P	V
		2389.04	46.88	-7.12	54	39.67	33.5	7.16	33.45	100	247	A	V
	*	2412	110.36	-	-	103.25	33.37	7.18	33.44	100	247	P	V
	*	2412	107.1	-	-	99.99	33.37	7.18	33.44	100	247	A	V
802.11b CH 11 2462MHz		2486.98	54.42	-19.58	74	48.87	31.7	7.27	33.42	122	118	P	H
		2487.22	43.74	-10.26	54	38.19	31.7	7.27	33.42	122	118	A	H
	*	2462	106.25	-	-	100.53	31.9	7.25	33.43	122	118	P	H
	*	2460	102.85	-	-	97.13	31.9	7.25	33.43	122	118	A	H
		2488.06	56.1	-17.9	74	49.49	32.73	7.3	33.42	280	115	P	V
		2487.58	45.06	-8.94	54	38.45	32.73	7.3	33.42	280	115	A	V
	*	2462	108.72	-	-	101.91	32.99	7.25	33.43	280	115	P	V
	*	2460	105.38	-	-	98.57	32.99	7.25	33.43	280	115	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		4824	45.42	-28.58	74	61.34	34.98	10.26	61.16	300	0	P	H
		4824	47.79	-26.21	74	63.85	34.84	10.26	61.16	300	360	P	V
802.11b CH 06 2437MHz		4872	48.13	-25.87	74	63.88	35.04	10.32	61.11	300	0	P	H
		7308	44.93	-29.07	74	56.39	36.86	12.75	61.07	300	0	P	H
		4872	50.45	-23.55	74	66.41	34.83	10.32	61.11	300	360	P	V
		7308	47.34	-26.66	74	59.27	36.39	12.75	61.07	300	360	P	V
802.11b CH 11 2462MHz		4926	47.28	-26.72	74	62.86	35.1	10.39	61.07	300	0	P	H
		7386	47.52	-26.48	74	58.87	36.88	12.83	61.06	300	0	P	H
		4926	50.39	-23.61	74	66.25	34.82	10.39	61.07	300	360	P	V
		7386	50.6	-23.4	74	62.39	36.44	12.83	61.06	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), 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 802.11g CH 11 (2462MHz).

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 (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)
802.11g CH 01 2412MHz		4824	43.7	-30.3	74	59.62	34.98	10.26	61.16	300	0	P	H
		4824	44.86	-29.14	74	60.92	34.84	10.26	61.16	300	360	P	V
802.11g CH 06 2437MHz		4872	43.14	-30.86	74	58.89	35.04	10.32	61.11	300	0	P	H
		7308	44.02	-29.98	74	55.48	36.86	12.75	61.07	300	0	P	H
		4872	45.28	-28.72	74	61.24	34.83	10.32	61.11	300	360	P	V
		7308	46.25	-27.75	74	58.18	36.39	12.75	61.07	300	360	P	V
802.11g CH 11 2462MHz		4926	42.63	-31.37	74	58.21	35.1	10.39	61.07	300	0	P	H
		7386	44.92	-29.08	74	56.27	36.88	12.83	61.06	300	0	P	H
		4926	45.55	-28.45	74	61.41	34.82	10.39	61.07	300	360	P	V
		7386	46.87	-27.13	74	58.66	36.44	12.83	61.06	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)**

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		2389.95	57.67	-16.33	74	51.81	32.15	7.16	33.45	189	60	P	H
		2389.82	47.93	-6.07	54	42.07	32.15	7.16	33.45	189	60	A	H
	*	2414	108.3	-	-	102.36	32.2	7.18	33.44	189	60	P	H
	*	2412	100.09	-	-	94.15	32.2	7.18	33.44	189	60	A	H
		2389.82	62.61	-11.39	74	55.4	33.5	7.16	33.45	263	87	P	V
		2389.95	50.58	-3.42	54	43.37	33.5	7.16	33.45	263	87	A	V
	*	2414	110.01	-	-	102.9	33.37	7.18	33.44	263	87	P	V
	*	2412	102.14	-	-	95.03	33.37	7.18	33.44	263	87	A	V
802.11n HT20 CH 11 2462MHz		2484.1	58.61	-15.39	74	52.97	31.8	7.27	33.43	296	199	P	H
		2483.5	47.83	-6.17	54	42.19	31.8	7.27	33.43	296	199	A	H
	*	2460	106.71	-	-	100.99	31.9	7.25	33.43	296	199	P	H
	*	2460	98.67	-	-	92.95	31.9	7.25	33.43	296	199	A	H
		2485	61.25	-12.75	74	54.55	32.86	7.27	33.43	254	81	P	V
		2483.5	50.77	-3.23	54	44.07	32.86	7.27	33.43	254	81	A	V
	*	2462	109.65	-	-	102.84	32.99	7.25	33.43	254	81	P	V
	*	2462	101.06	-	-	94.25	32.99	7.25	33.43	254	81	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		4824	41.91	-32.09	74	57.83	34.98	10.26	61.16	300	0	P	H
		4824	44.41	-29.59	74	60.47	34.84	10.26	61.16	300	360	P	V
802.11n HT20 CH 06 2437MHz		4872	42.97	-31.03	74	58.72	35.04	10.32	61.11	300	0	P	H
		7308	43.43	-30.57	74	54.89	36.86	12.75	61.07	300	0	P	H
		4872	44.76	-29.24	74	60.72	34.83	10.32	61.11	300	360	P	V
		7308	45.24	-28.76	74	57.17	36.39	12.75	61.07	300	360	P	V
802.11n HT20 CH 11 2462MHz		4926	41.43	-32.57	74	57.01	35.1	10.39	61.07	300	0	P	H
		7386	44.52	-29.48	74	55.87	36.88	12.83	61.06	300	0	P	H
		4926	43.8	-30.2	74	59.66	34.82	10.39	61.07	300	360	P	V
		7386	46.49	-27.51	74	58.28	36.44	12.83	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Co-location Transmission

2.4GHz 2400~2483.5MHz

11g(n20)_Tx_Ch11 + LTE Band 13 (BW=5M) (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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)
802.11n HT20 CH 11 2462MHz		2484.22	58.98	-15.02	74	53.34	31.8	7.27	33.43	245	55	P	H
		2483.5	47.69	-6.31	54	42.05	31.8	7.27	33.43	245	55	A	H
	*	2462	103.99	---	---	98.27	31.9	7.25	33.43	245	55	P	H
	*	2460	95.72	---	---	90	31.9	7.25	33.43	245	55	A	H
		2484.04	59.18	-14.82	74	52.48	32.86	7.27	33.43	280	102	P	V
		2483.62	49.08	-4.92	54	42.38	32.86	7.27	33.43	280	102	A	V
	*	2462	106.01	---	---	99.2	32.99	7.25	33.43	280	102	P	V
*	2464	97.87	---	---	91.06	32.99	7.25	33.43	280	102	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

11g(n20)_Tx_Ch11 + LTE Band 13 (BW=5M) (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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)
802.11n HT20 CH 11 2462MHz		4926	45.61	-28.39	74	61.19	35.1	10.39	61.07	300	0	P	H
		7386	44.21	-29.79	74	55.56	36.88	12.83	61.06	300	0	P	H
		4926	45.84	-28.16	74	61.7	34.82	10.39	61.07	300	360	P	V
		7386	43.39	-30.61	74	55.18	36.44	12.83	61.06	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 HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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)
2.4GHz 802.11n HT20 LF		31.94	18.53	-21.47	40	25.9	24.22	0.61	32.2	-	-	P	H
		114.39	15.63	-27.87	43.5	29.62	16.45	1.73	32.17	-	-	P	H
		157.07	17.4	-26.1	43.5	30.5	16.98	2.02	32.1	-	-	P	H
		186.17	16.09	-27.41	43.5	30.35	15.63	2.21	32.1	-	-	P	H
		329.73	18.72	-27.28	46	27.92	20.02	2.94	32.16	-	-	P	H
		852.56	27.7	-18.3	46	26.21	29.12	4.76	32.39	100	30	P	H
		41.64	22.65	-17.35	40	35.34	18.68	0.75	32.12	-	-	P	V
		51.34	24.43	-15.57	40	41.56	14.16	0.91	32.2	100	30	P	V
		66.86	17.89	-22.11	40	36.49	12.42	1.12	32.14	-	-	P	V
		174.53	15.42	-28.08	43.5	29.22	16.17	2.13	32.1	-	-	P	V
		319.06	17	-29	46	26.49	19.76	2.89	32.14	-	-	P	V
	793.39	27.13	-18.87	46	26.46	28.39	4.58	32.3	-	-	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)

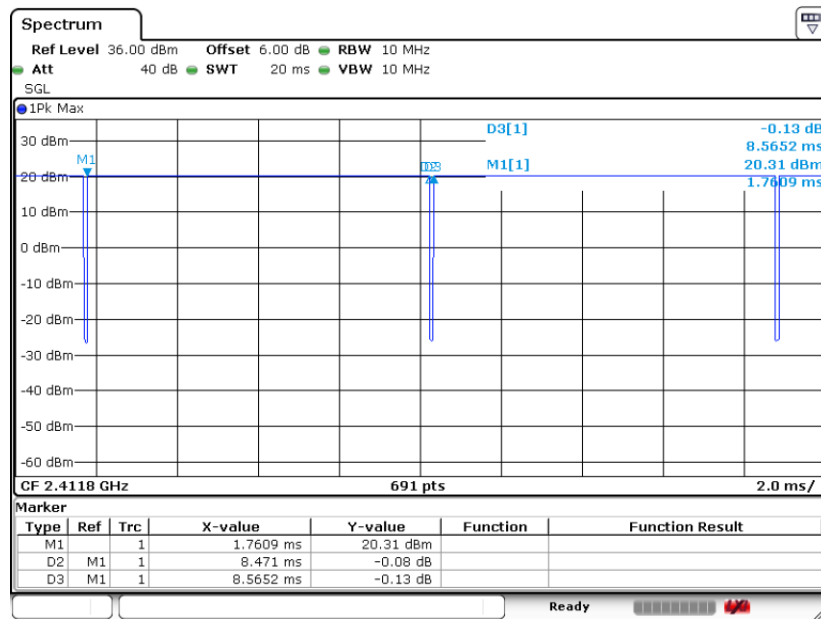
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.90	—	—	10 Hz
802.11g	97.47	1.39855	0.72	0.75 KHz
802.11n HT20	97.31	1.31159	0.76	0.82 KHz

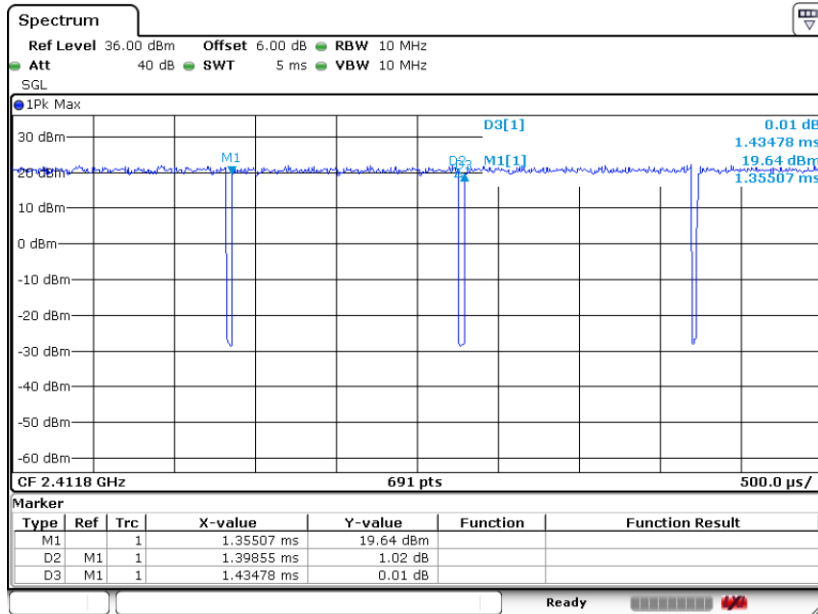
802.11b



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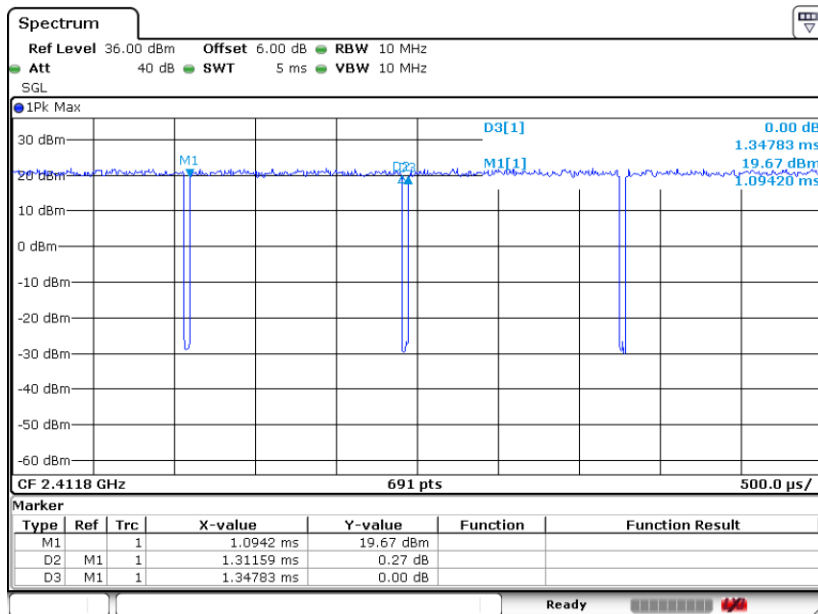


802.11g



Date: 20.AUG.2021 21:35:03

802.11n HT20



Date: 20.AUG.2021 21:34:13