



FCC RADIO TEST REPORT

FCC ID : TX2-RTL8722DM
Equipment : 802.11 a/b/g/n Wireless LAN+Bluetooth module
Brand Name : REALTEK
Model Name : RTL8722DM
Applicant : Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Manufacturer : Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Standard : FCC Part 15 Subpart C §15.247

The product was received on Nov. 13, 2020 and testing was started from Nov. 25, 2020 and completed on Jan. 11, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
3.1 6dB and 99% Bandwidth Measurement	11
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement	14
3.4 Conducted Band Edges and Spurious Emission Measurement	16
3.5 Radiated Band Edges and Spurious Emission Measurement	37
3.6 AC Conducted Emission Measurement.....	41
3.7 Antenna Requirements	43
4 List of Measuring Equipment.....	44
5 Uncertainty of Evaluation	46
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR0N0645B	01	Initial issue of report	Mar. 12, 2021



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 1.01 dB at 2486.880 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 6.16 dB at 0.166 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Cindy Liu



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n.

Product Specification subjective to this standard	
Sample 1	A1-8722DM-4F4MA with Fixture 1 and Printed Antenna
Sample 2	A1-8722DM-4F4M1 with Fixture 1 and External Antenna
Sample 3	A1-8722DM-4F4MC with Fixture 2 and External Antenna
Antenna Type	WLAN: Printed Antenna / External Antenna (Dipole or PIFA) Bluetooth: Printed Antenna / External Antenna (Dipole or PIFA)

Printed Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4.1

Dipole Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.0

PIFA Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.5

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY, CO05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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. The TAF code is not including all the FCC KDB listed without accreditation.



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 two antenna polarization (Horizontal and Vertical). The worst cases (Ant. Horizontal for Sample 1, Sample 2 with PIFA Antenna, Sample 3 with PIFA Antenna; Ant. Vertical for Sample 2 with Dipole Antenna, Sample 3 with Dipole Antenna) 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	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

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

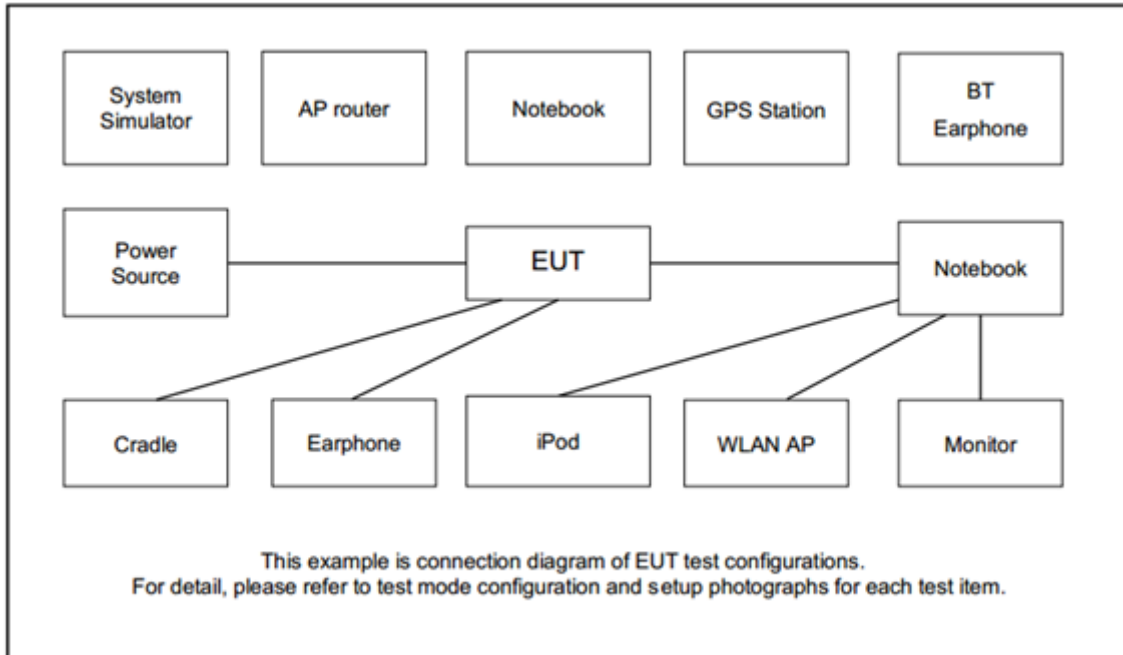


Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Charging from Notebook) for Sample 1
	Mode 2 : Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Charging from Notebook) for Sample 2 with Dipole Antenna
	Mode 3 : Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Charging from Notebook) for Sample 2 with PIFA Antenna
	Mode 4 : Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Charging from Notebook) for Sample 3 with PIFA Antenna
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09
	12	12	12	10
	13	13	13	11

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A
5.	USB Cable	N/A	N/A	N/A	N/A	N/A
6.	Fixture 1	N/A	N/A	N/A	N/A	N/A
7.	Fixture 2	N/A	N/A	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “AmebaD_mptool_2V2” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset}(dB) &= \text{RF cable loss}(dB) + \text{attenuator factor}(dB). \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

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

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

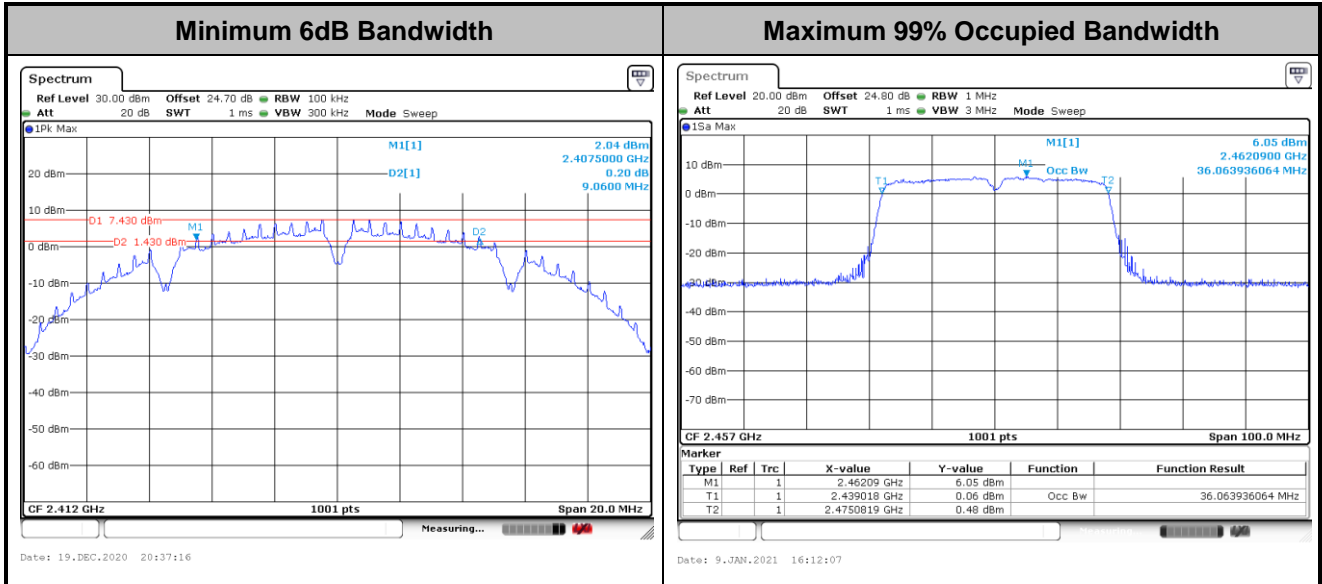
3.1.4 Test Setup





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 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.

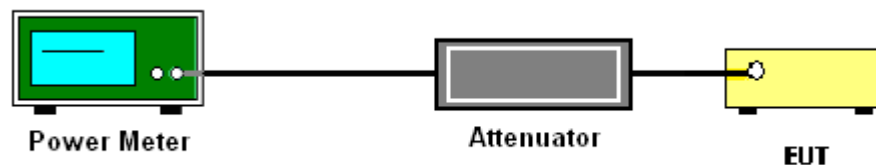
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. 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.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. 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.

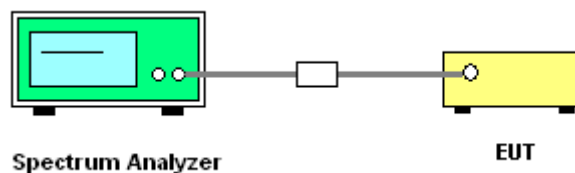
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 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.

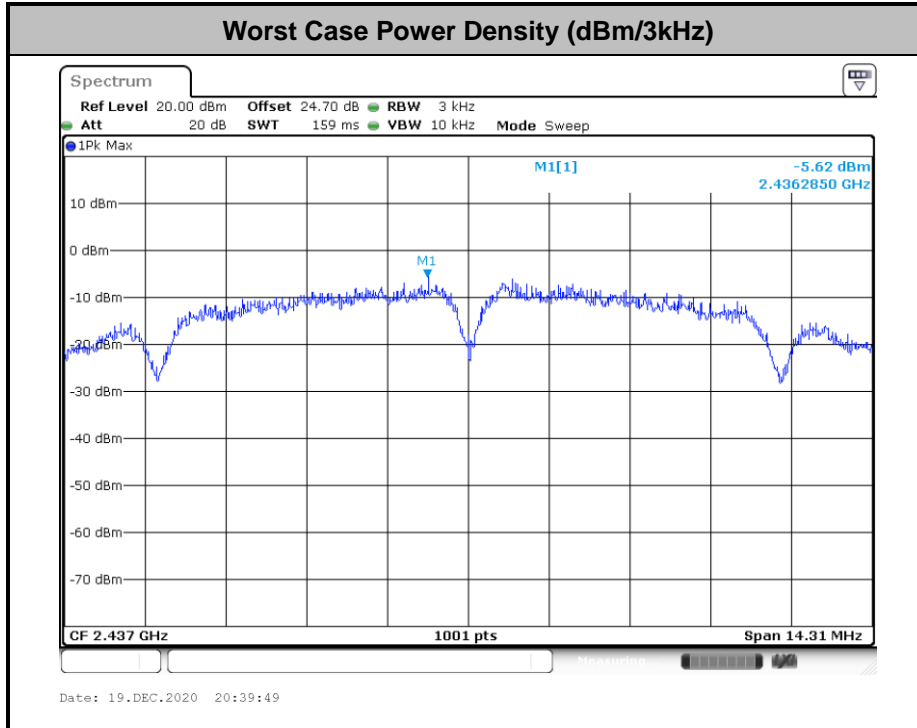
3.3.4 Test Setup





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.

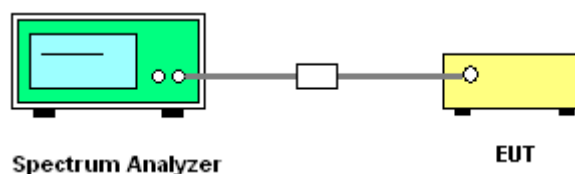
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
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



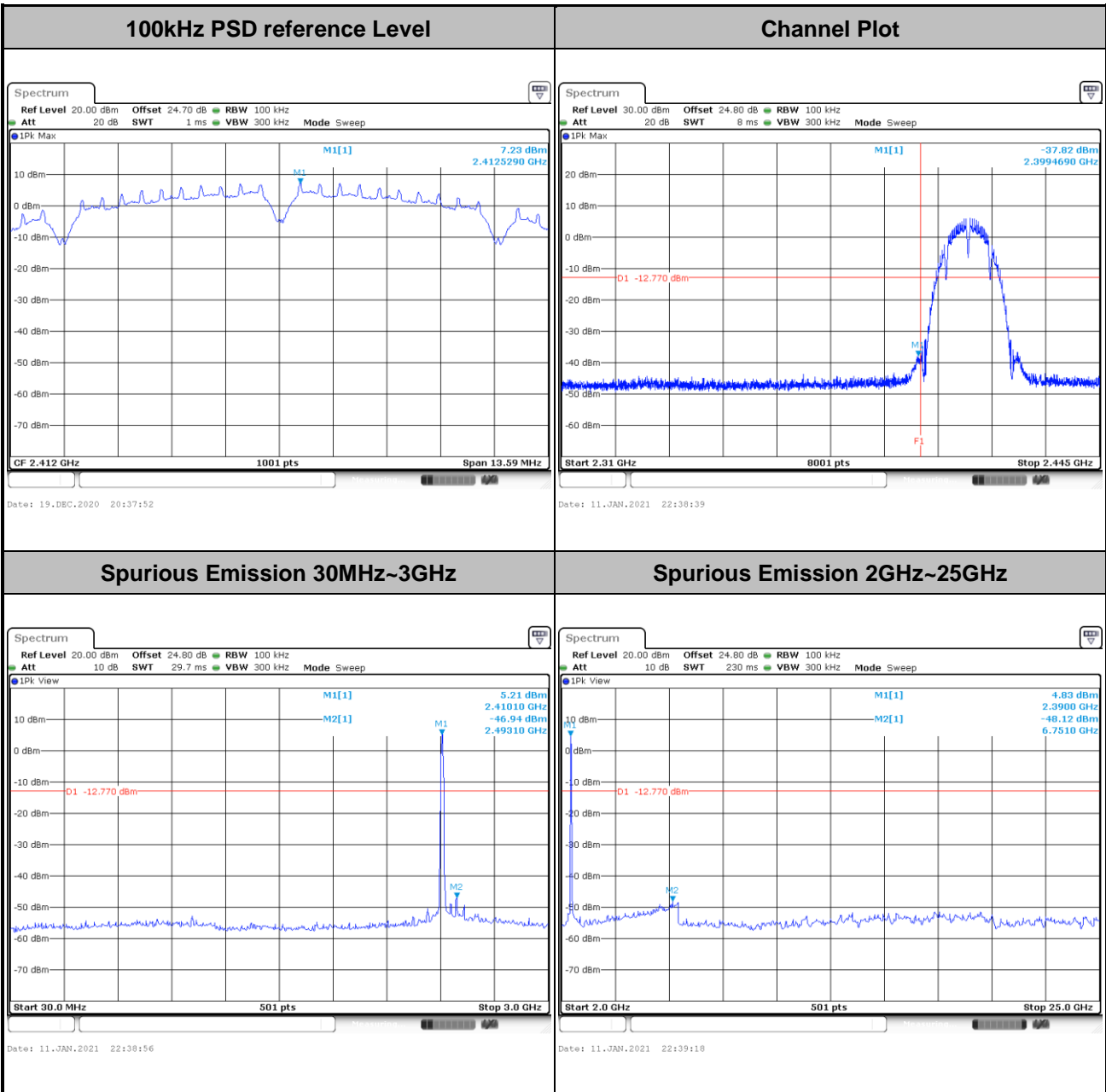


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Kai Liao	Temperature :	19.4~23.9°C
	Relative Humidity :	51.5~57.7%

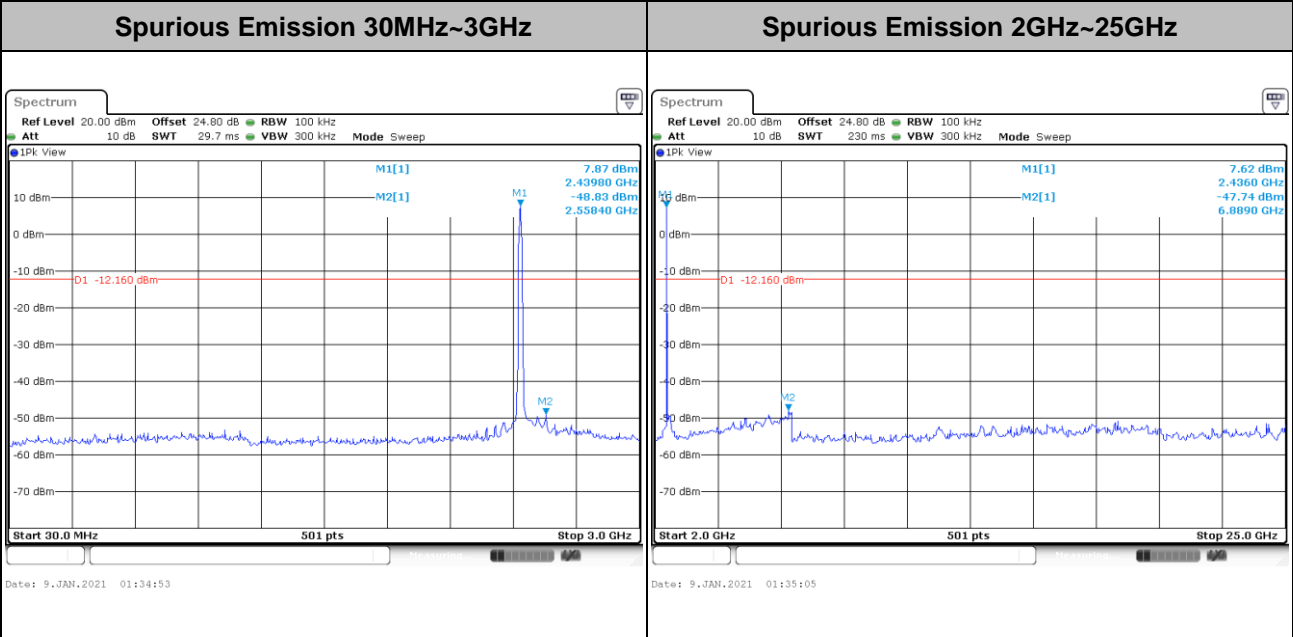
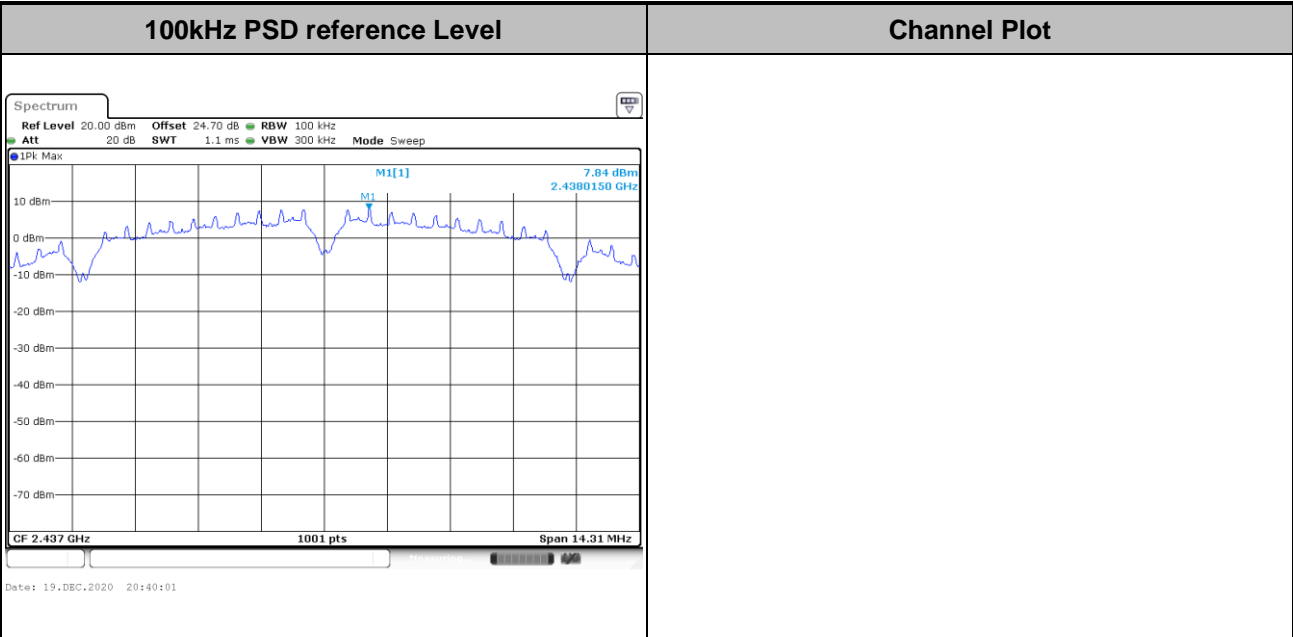
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----



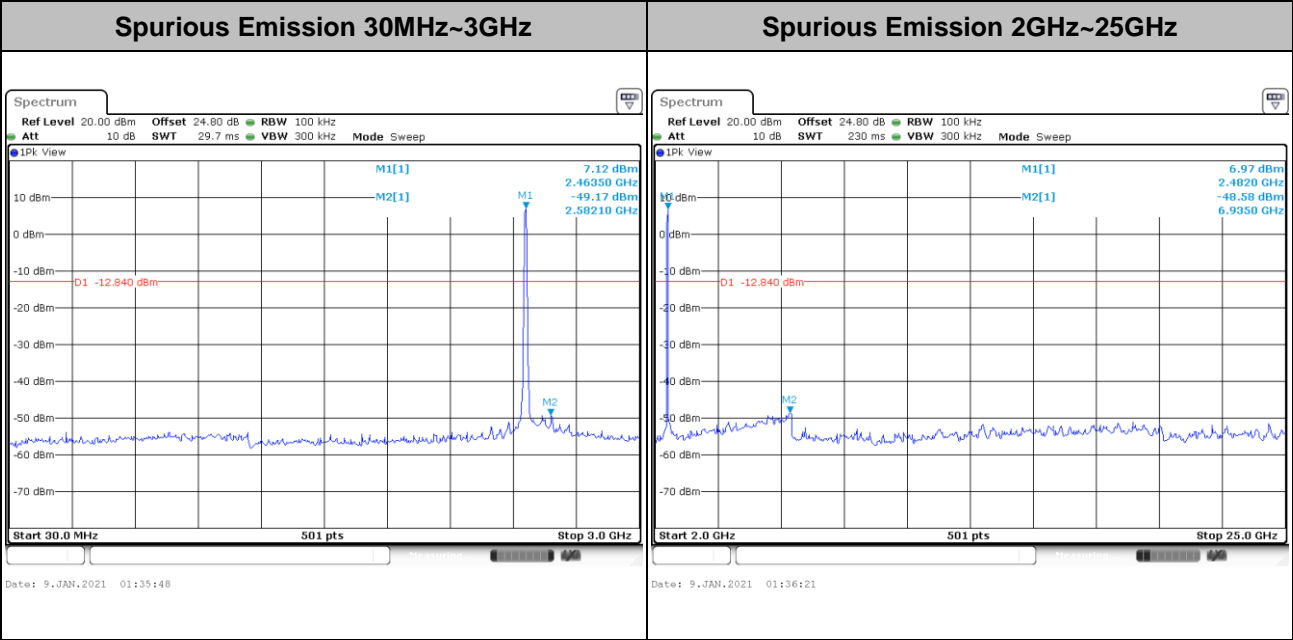
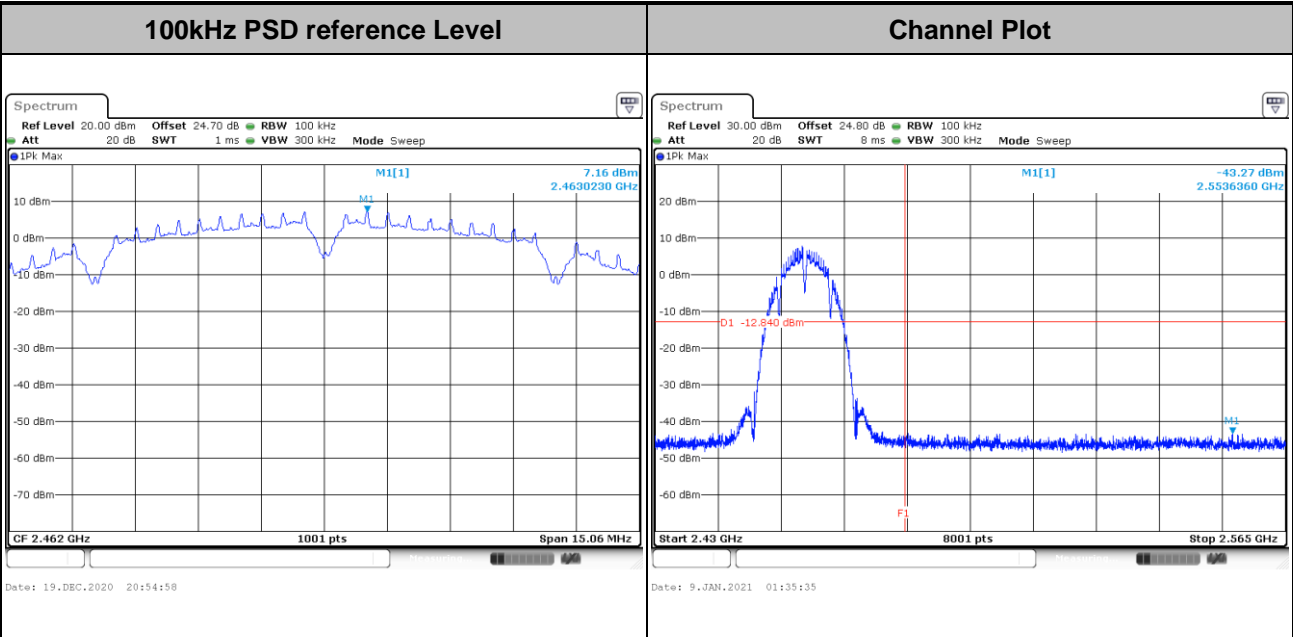


Test Mode :	802.11b	Test Channel :	06
-------------	---------	----------------	----



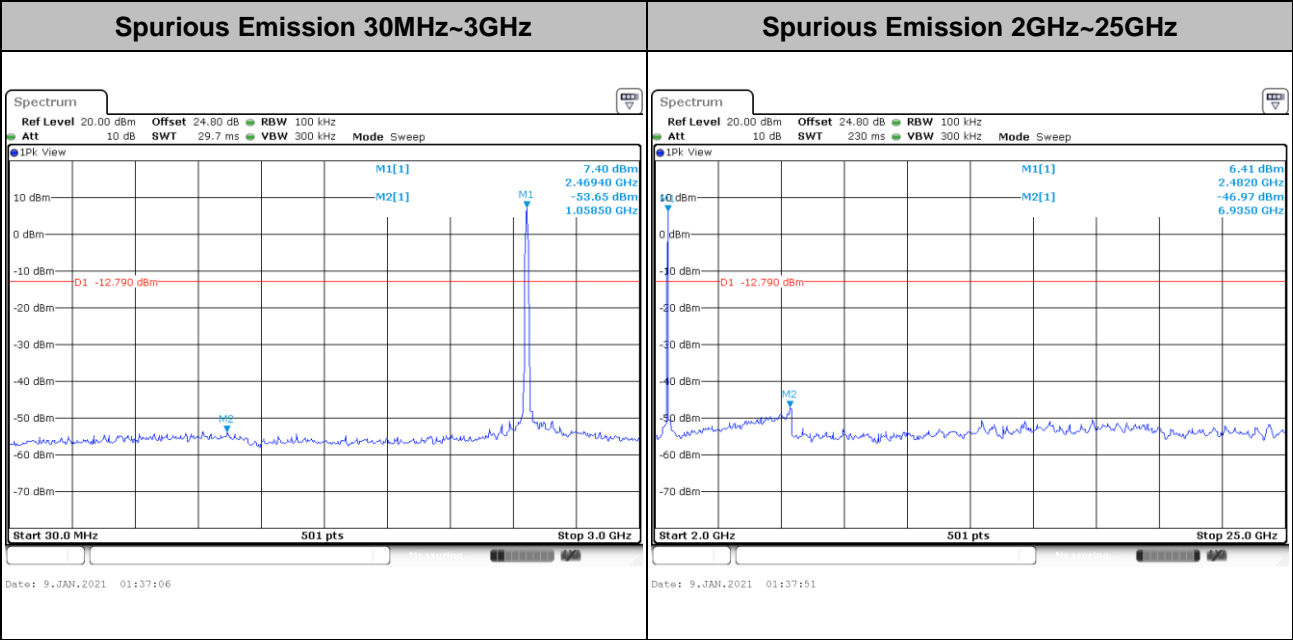
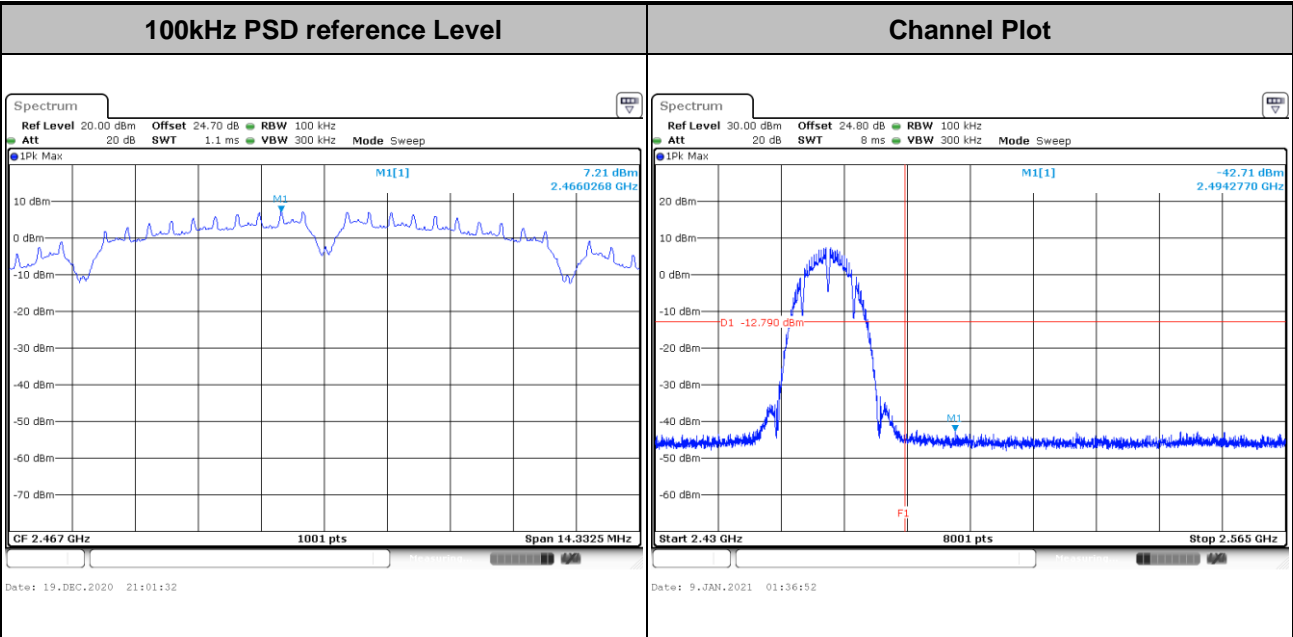


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----



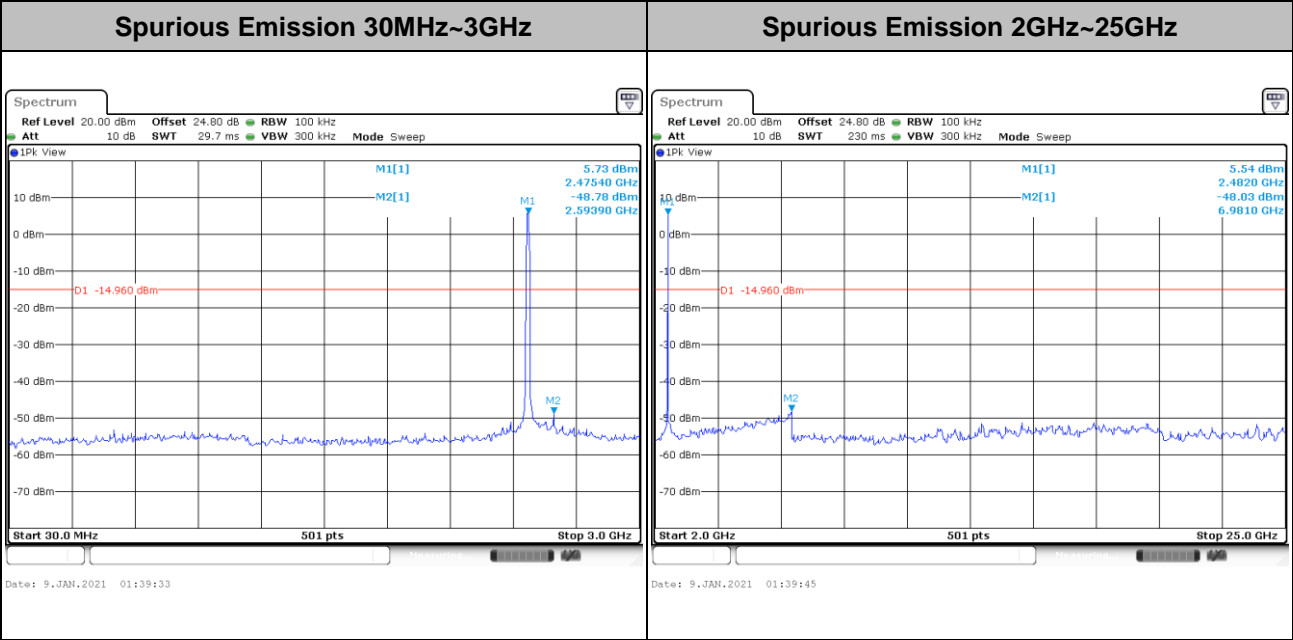
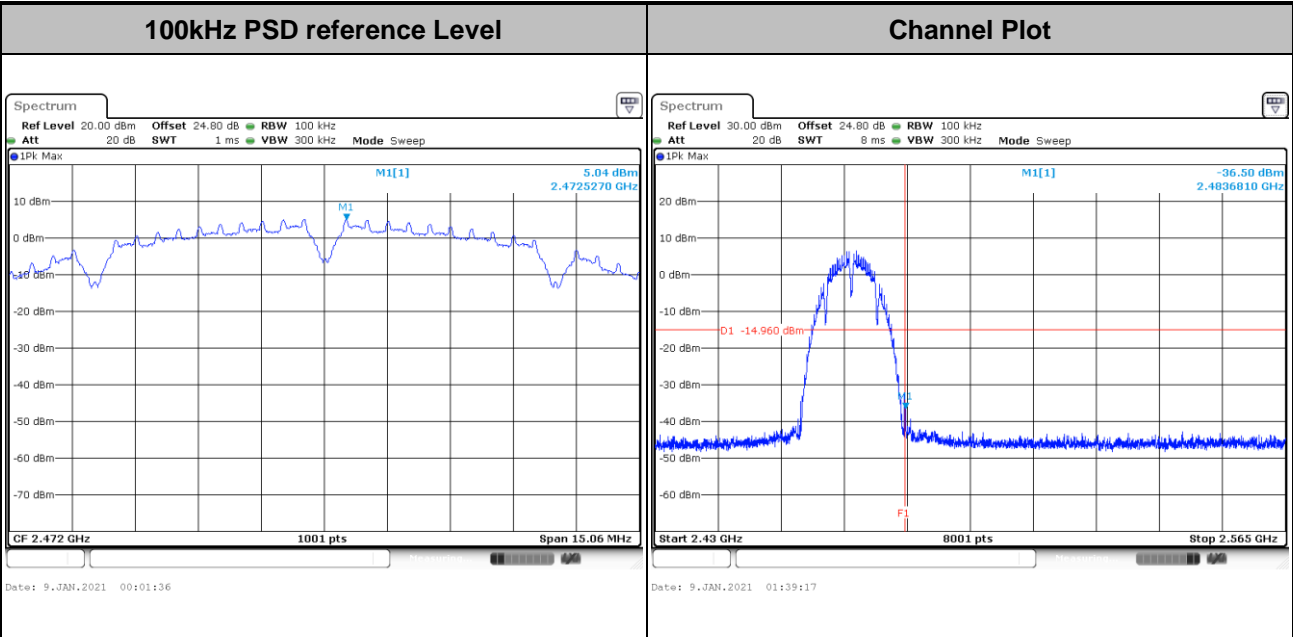


Test Mode :	802.11b	Test Channel :	12
-------------	---------	----------------	----



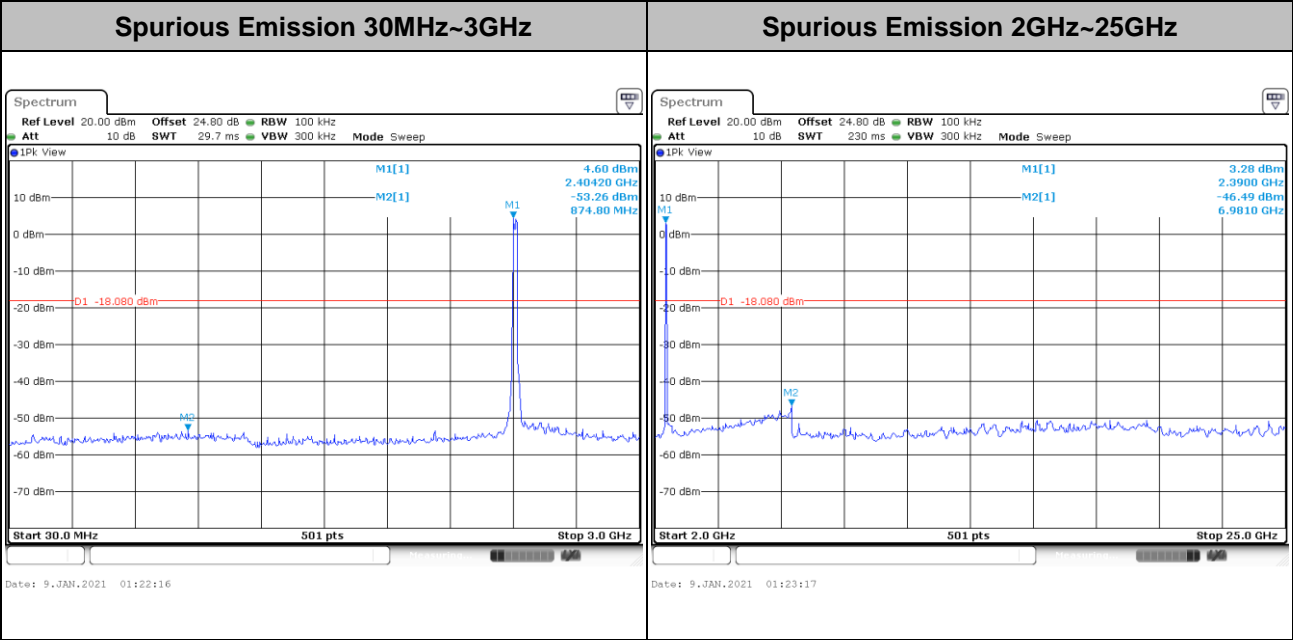
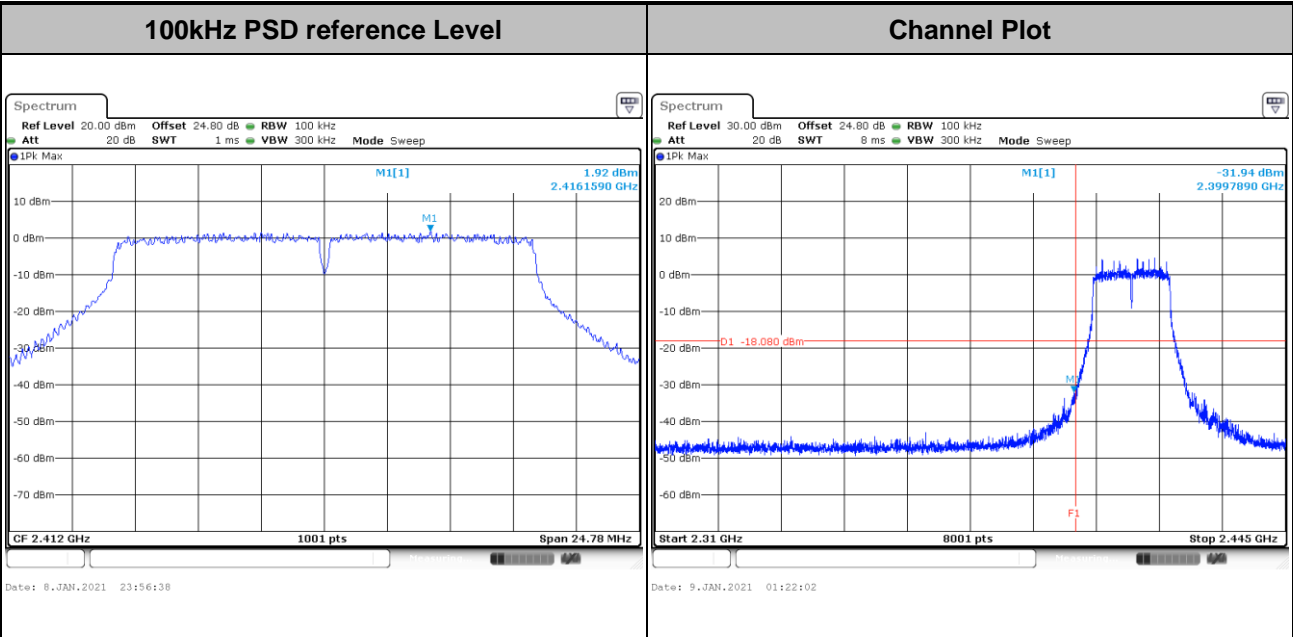


Test Mode :	802.11b	Test Channel :	13
-------------	---------	----------------	----



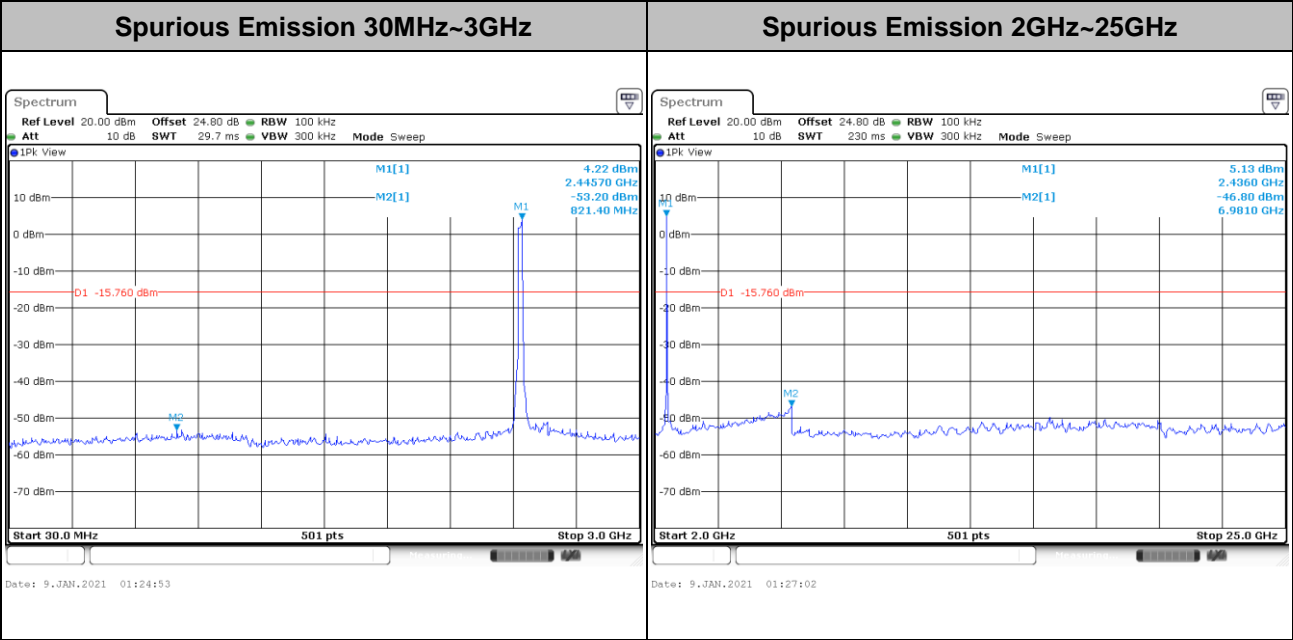
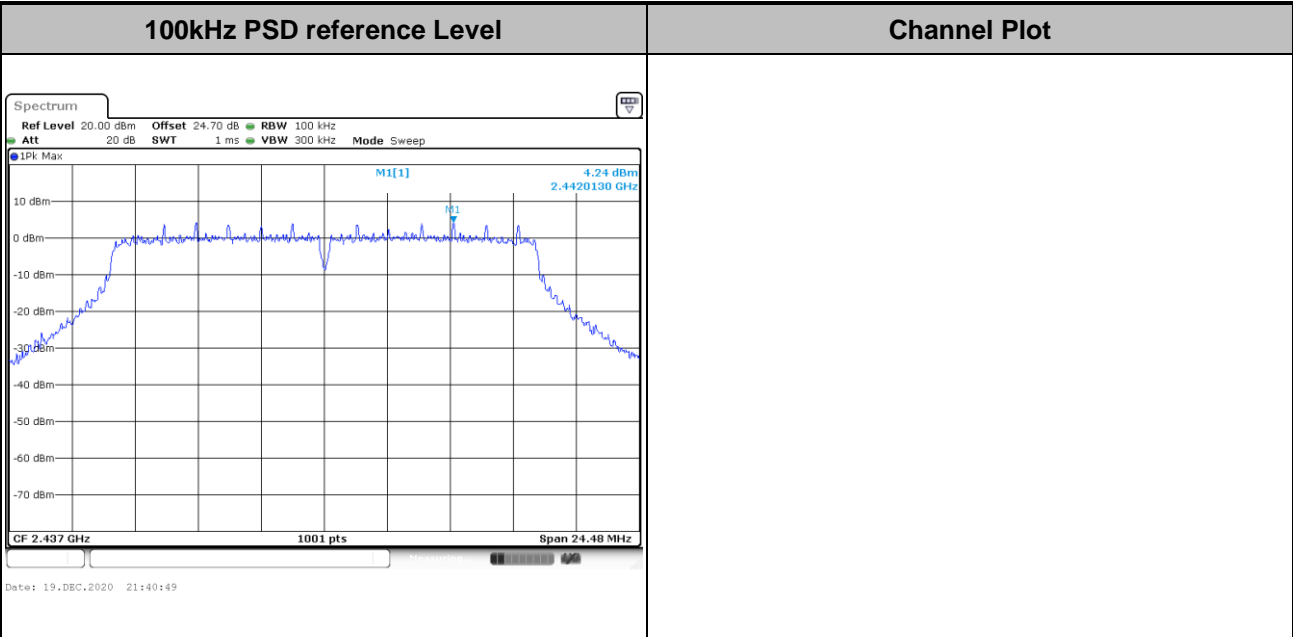


Test Mode : 802.11g Test Channel : 01



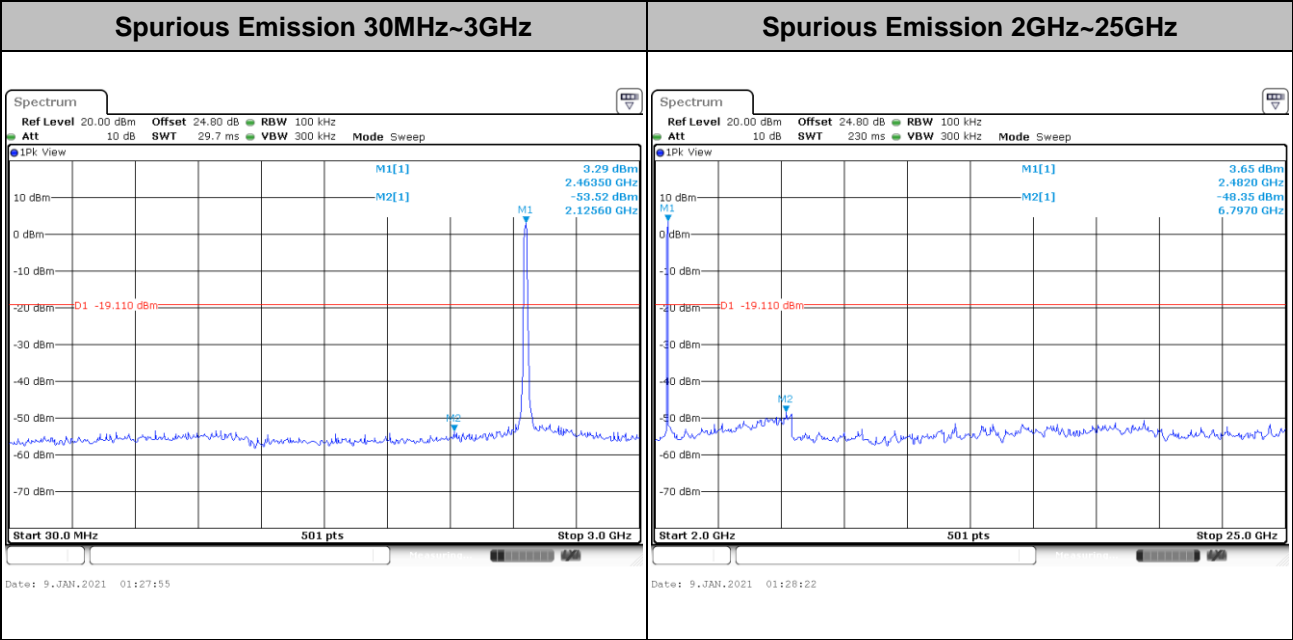
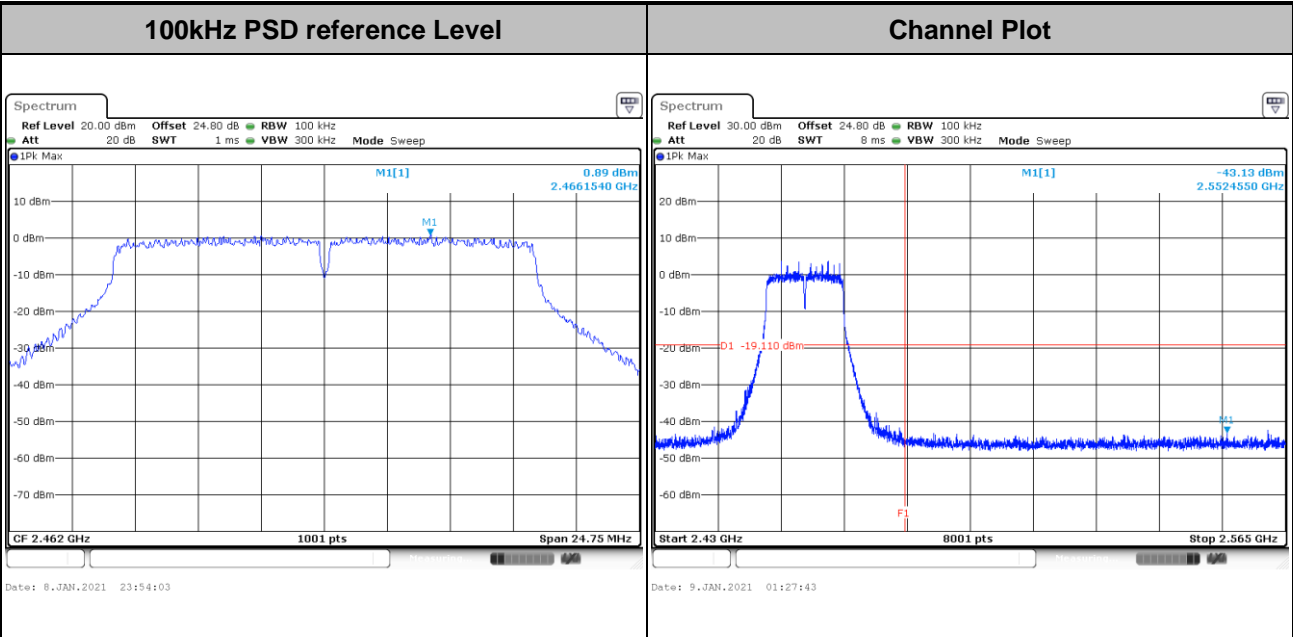


Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----





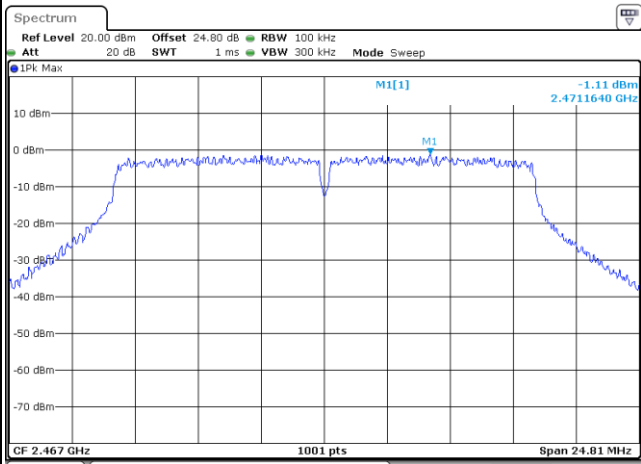
Test Mode : 802.11g Test Channel : 11





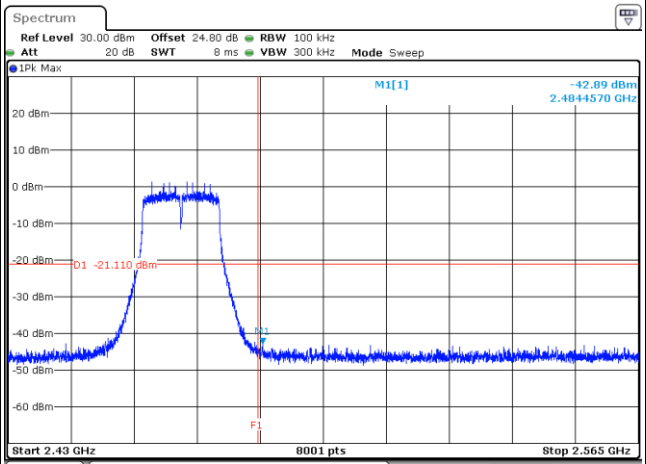
Test Mode : 802.11g Test Channel : 12

100kHz PSD reference Level



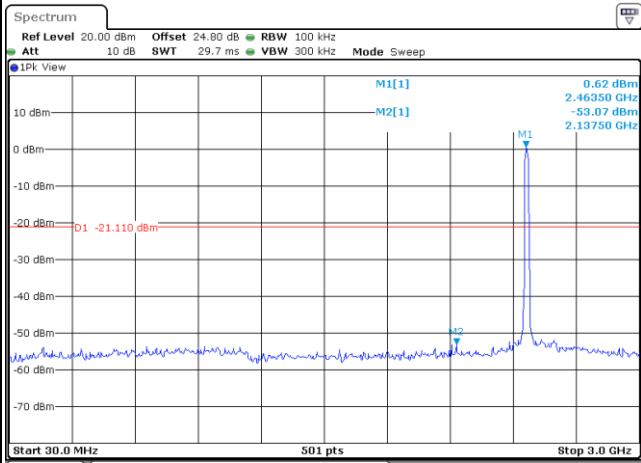
Date: 8.JAN.2021 23:51:03

Channel Plot



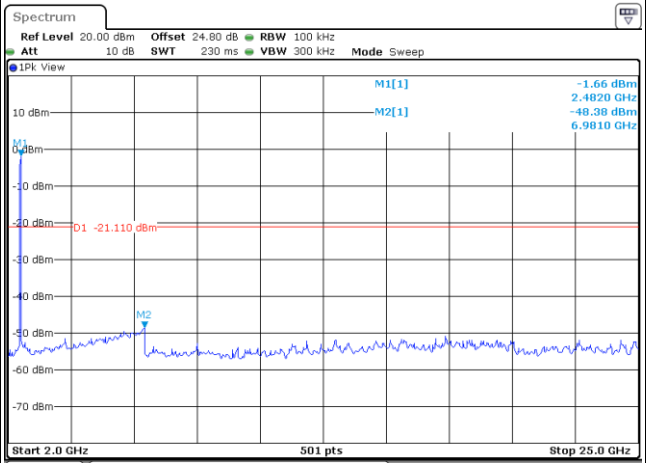
Date: 9.JAN.2021 01:29:28

Spurious Emission 30MHz~3GHz



Date: 9.JAN.2021 01:29:43

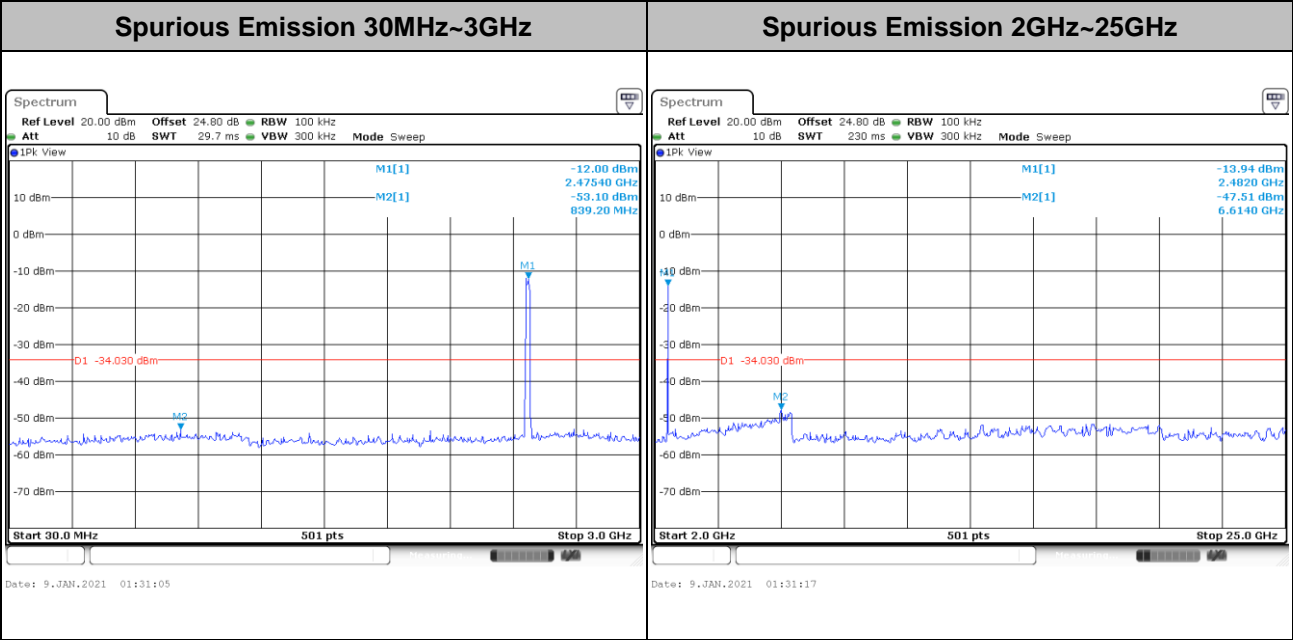
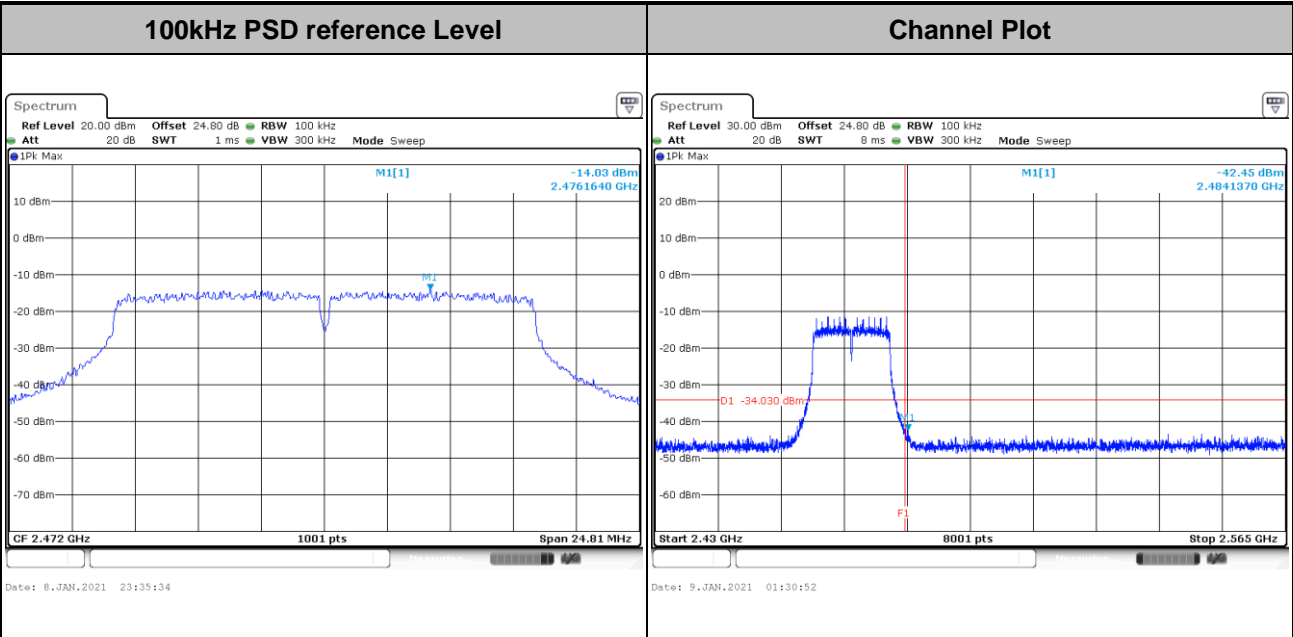
Spurious Emission 2GHz~25GHz



Date: 9.JAN.2021 01:30:02

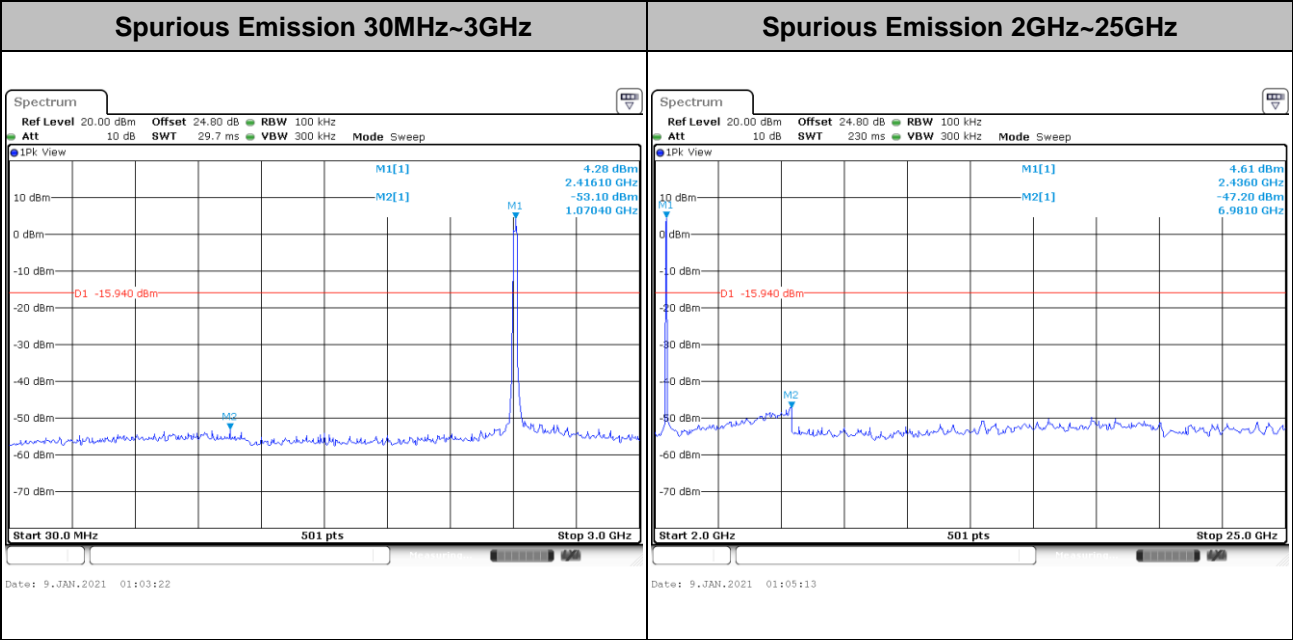
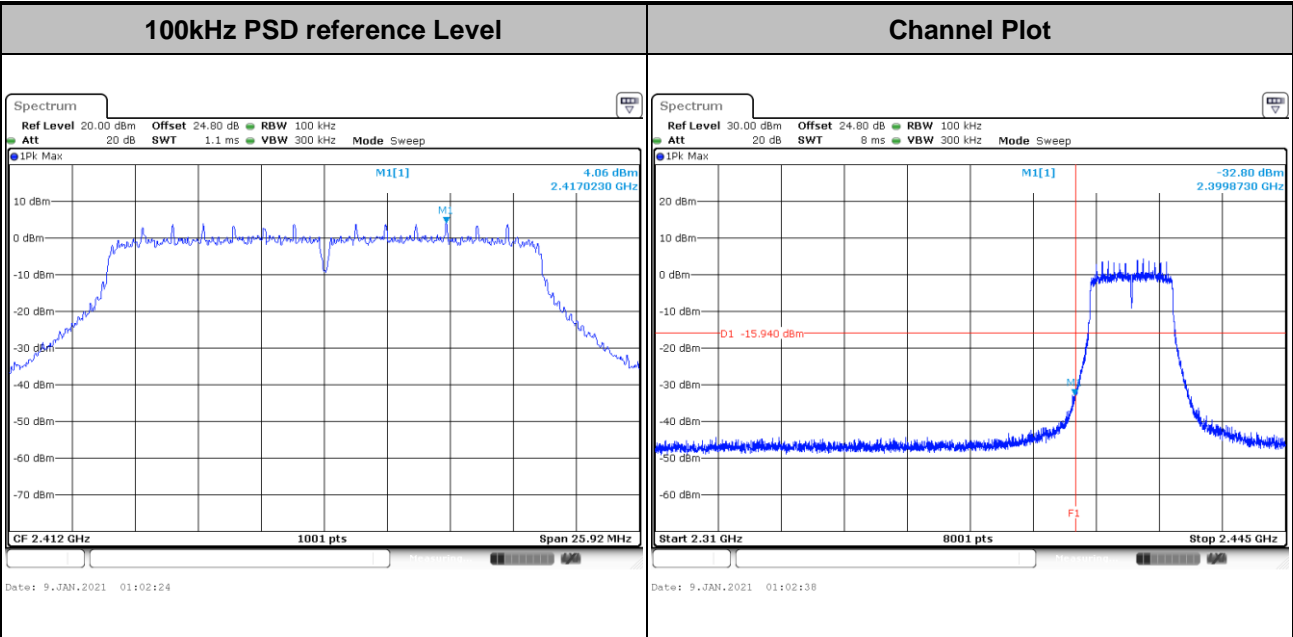


Test Mode :	802.11g	Test Channel :	13
-------------	---------	----------------	----





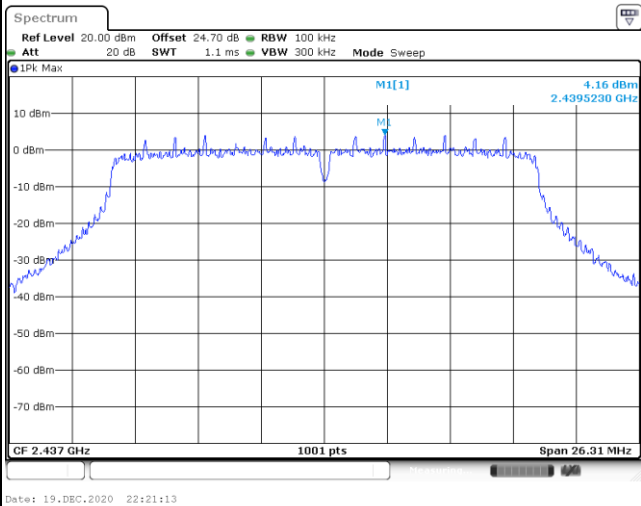
Test Mode : 802.11n HT20 Test Channel : 01





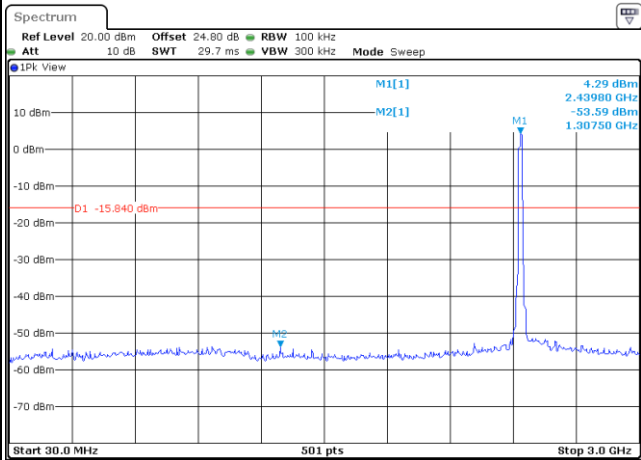
Test Mode :	802.11n HT20	Test Channel :	06
-------------	--------------	----------------	----

100kHz PSD reference Level	Channel Plot
-----------------------------------	---------------------

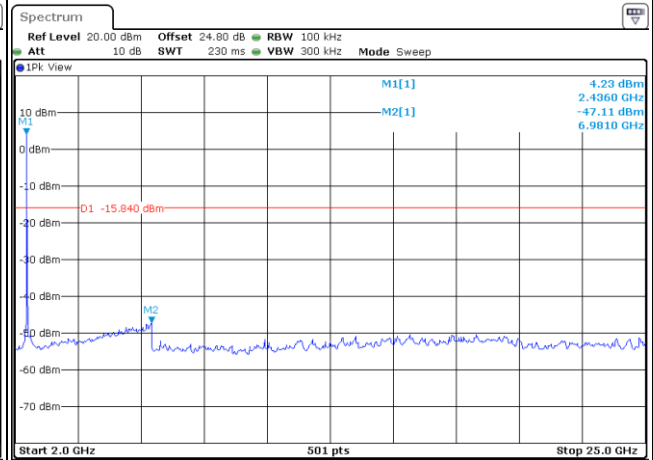


Date: 19.DEC.2020 22:21:13

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
-------------------------------------	-------------------------------------



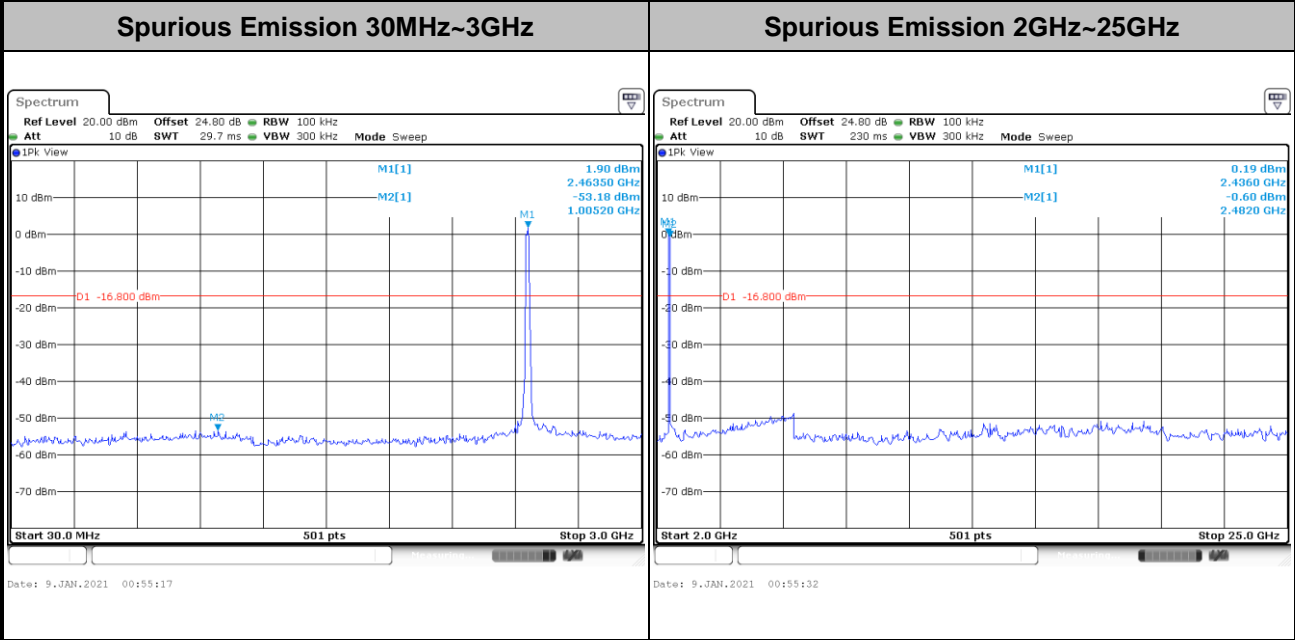
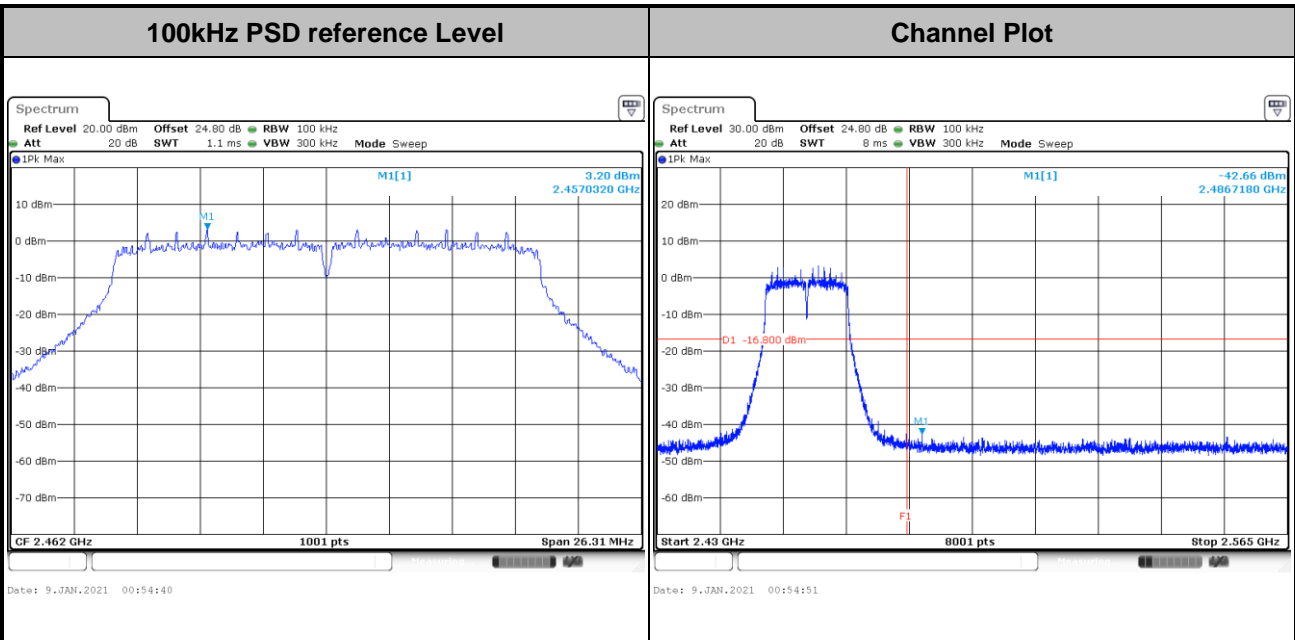
Date: 9.JAN.2021 00:57:42



Date: 9.JAN.2021 00:59:47

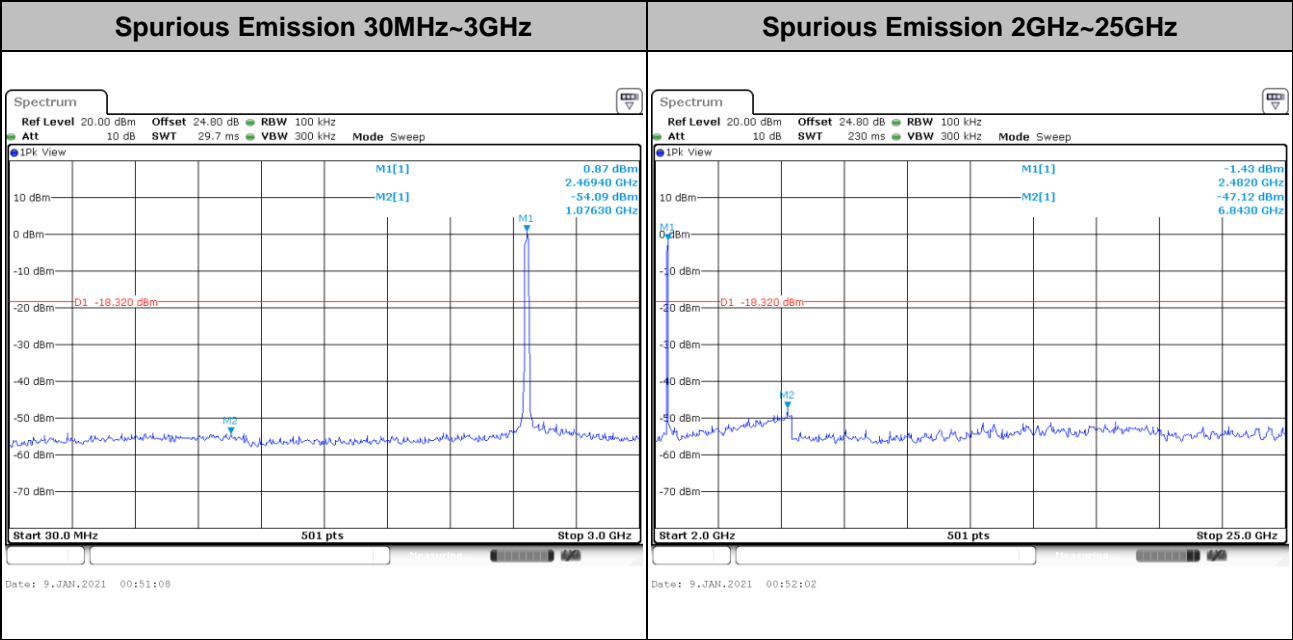
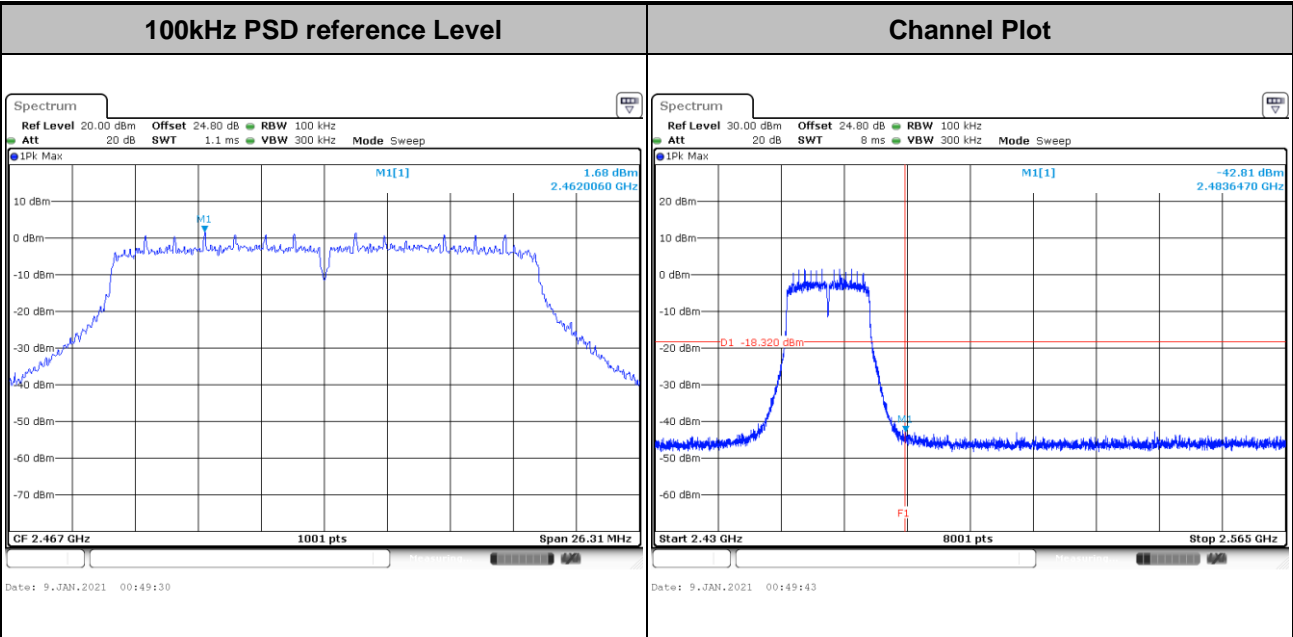


Test Mode : 802.11n HT20 Test Channel : 11



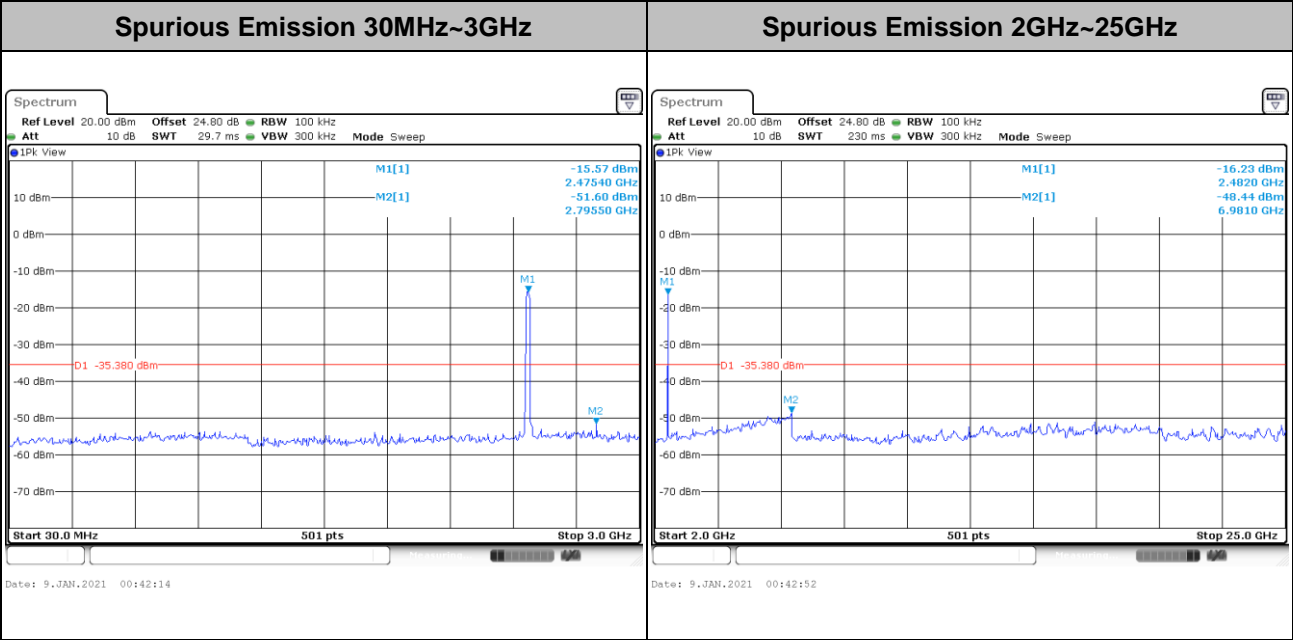
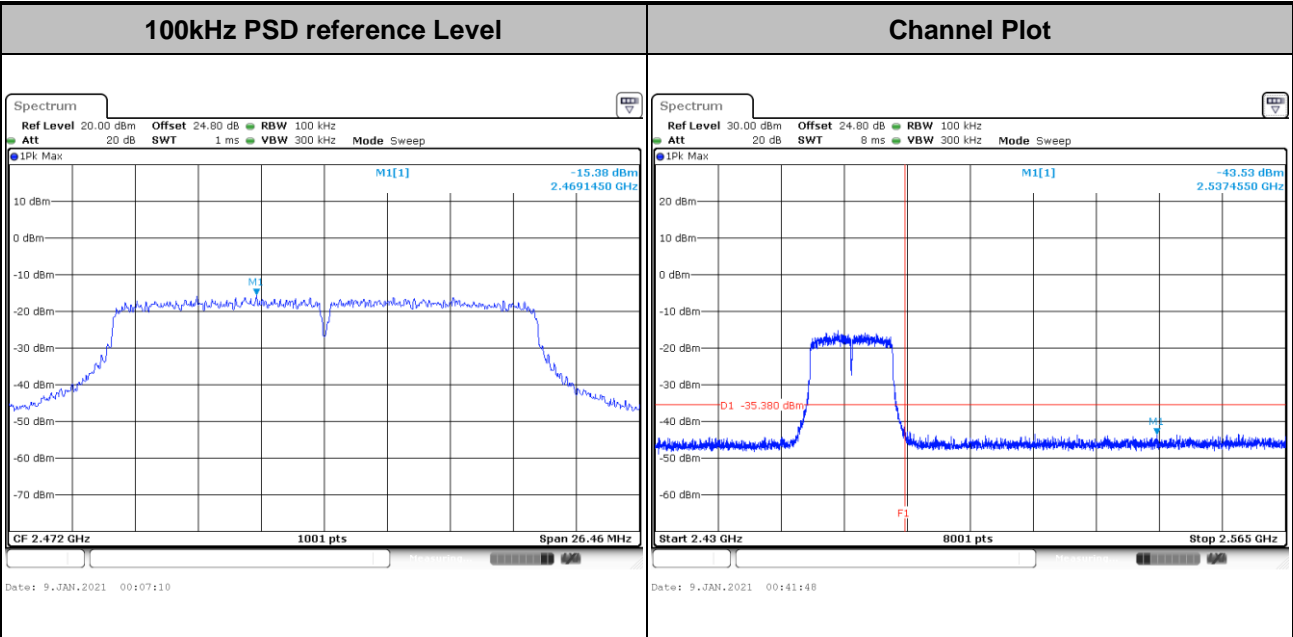


Test Mode :	802.11n HT20	Test Channel :	12
-------------	--------------	----------------	----



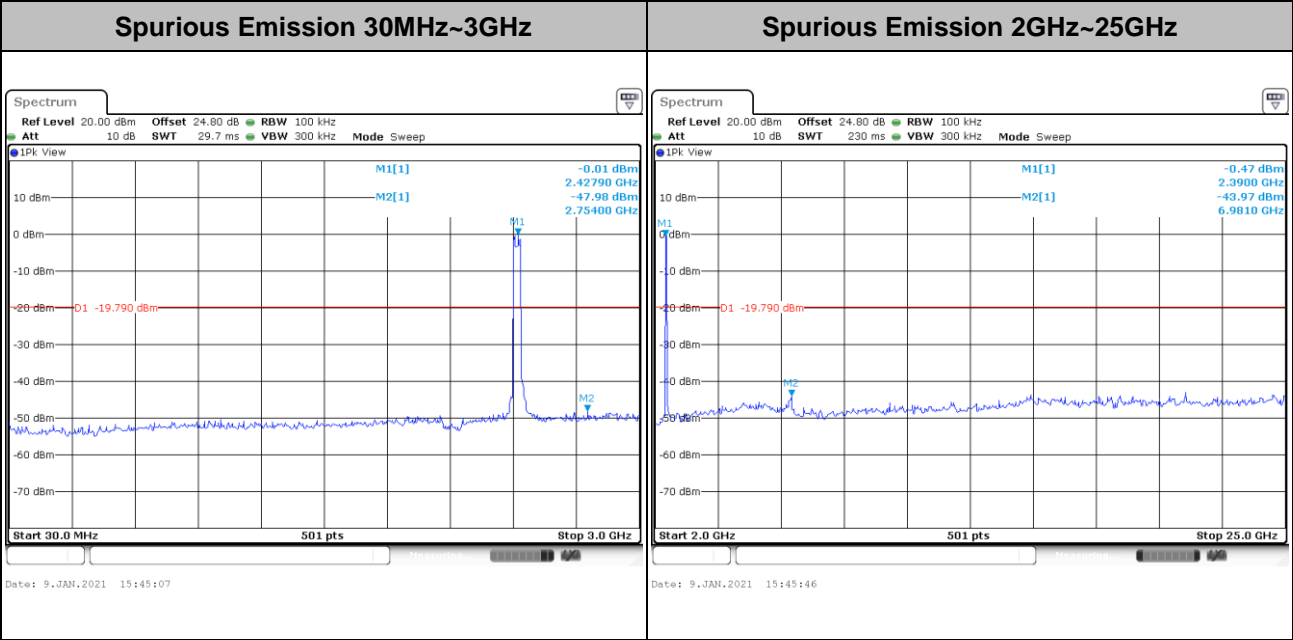
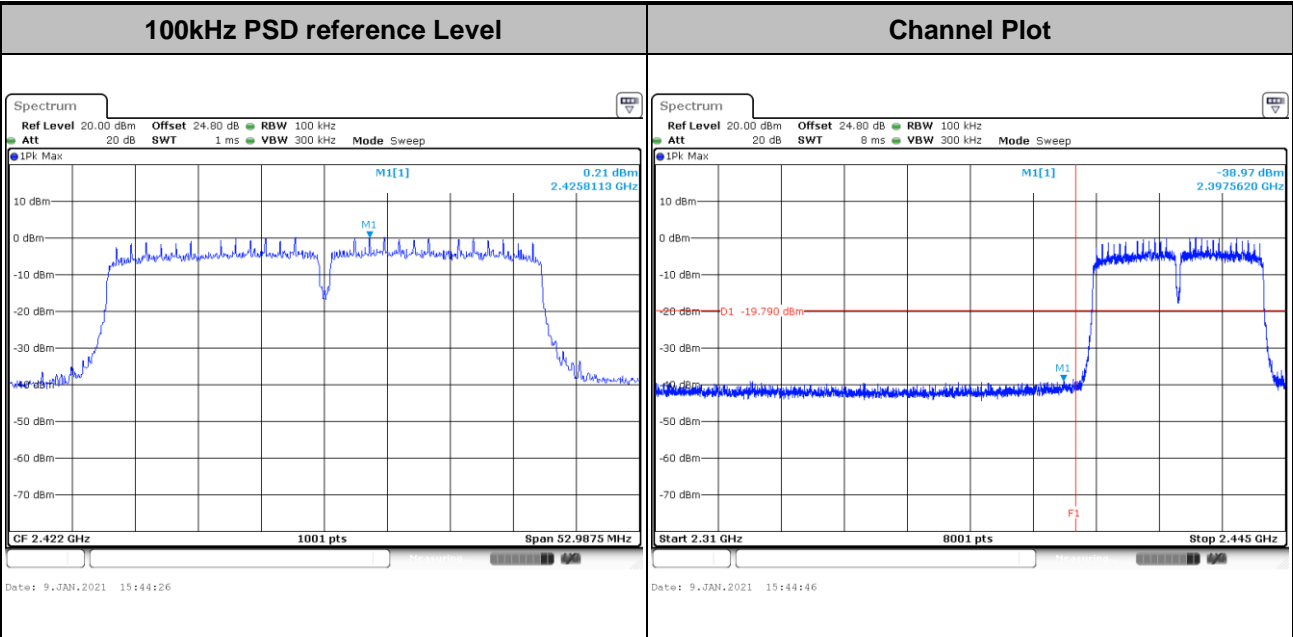


Test Mode :	802.11n HT20	Test Channel :	13
-------------	--------------	----------------	----



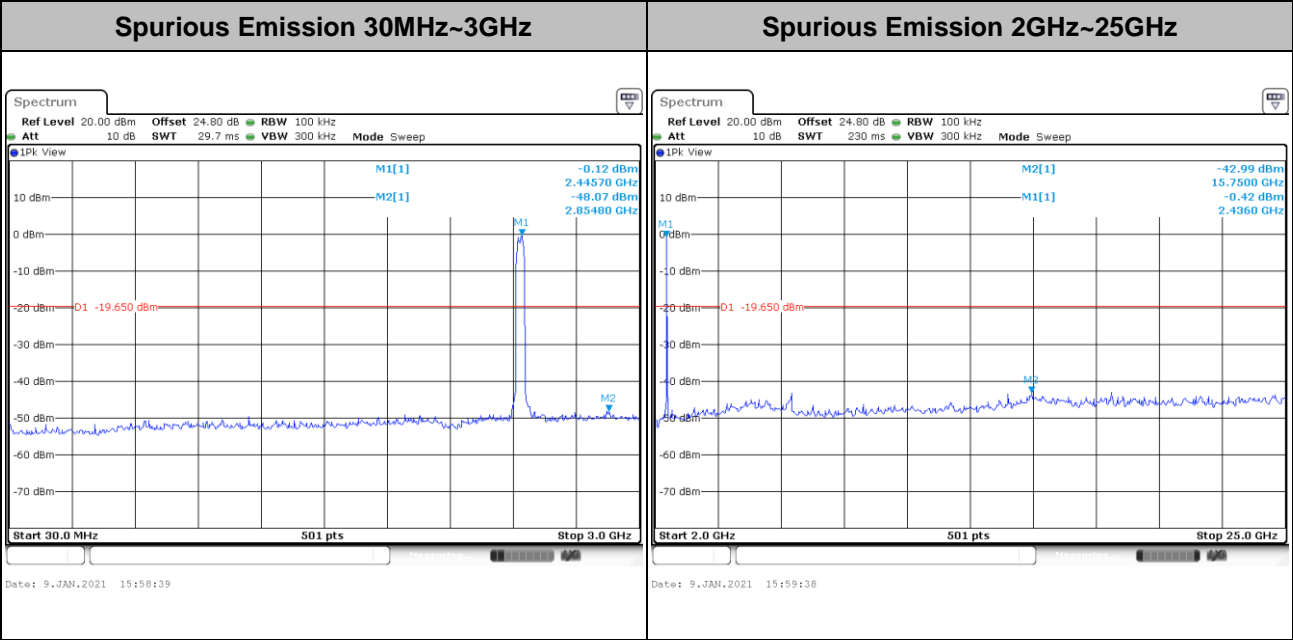
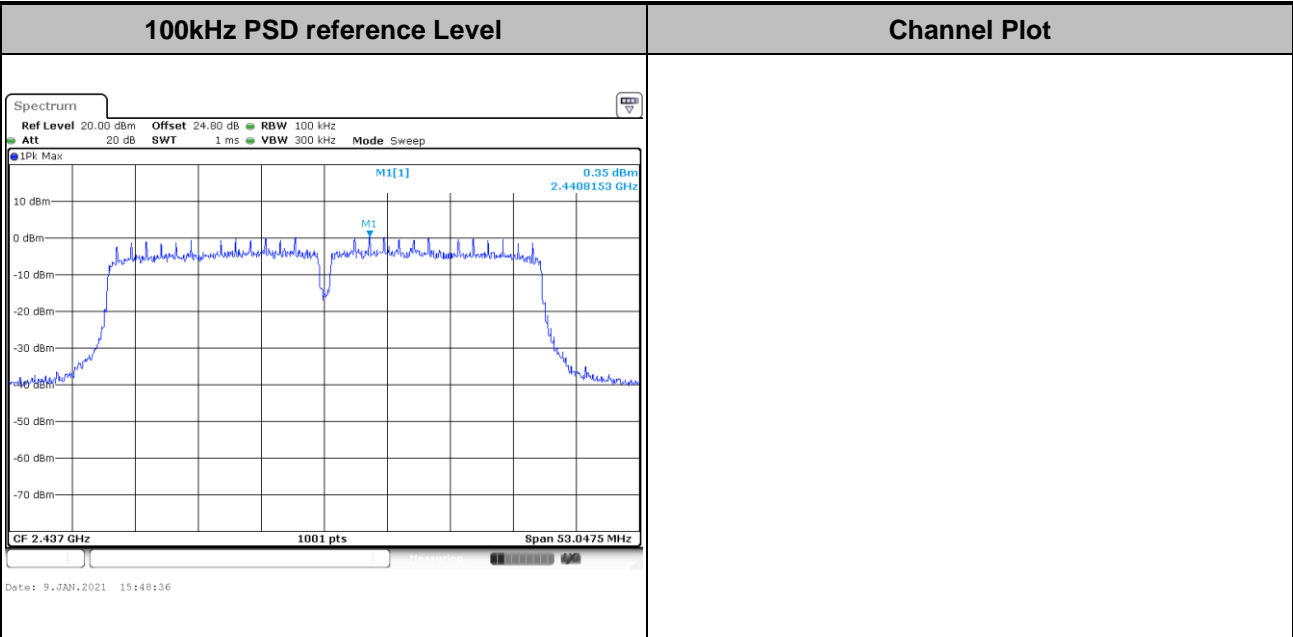


Test Mode : 802.11n HT40 Test Channel : 03



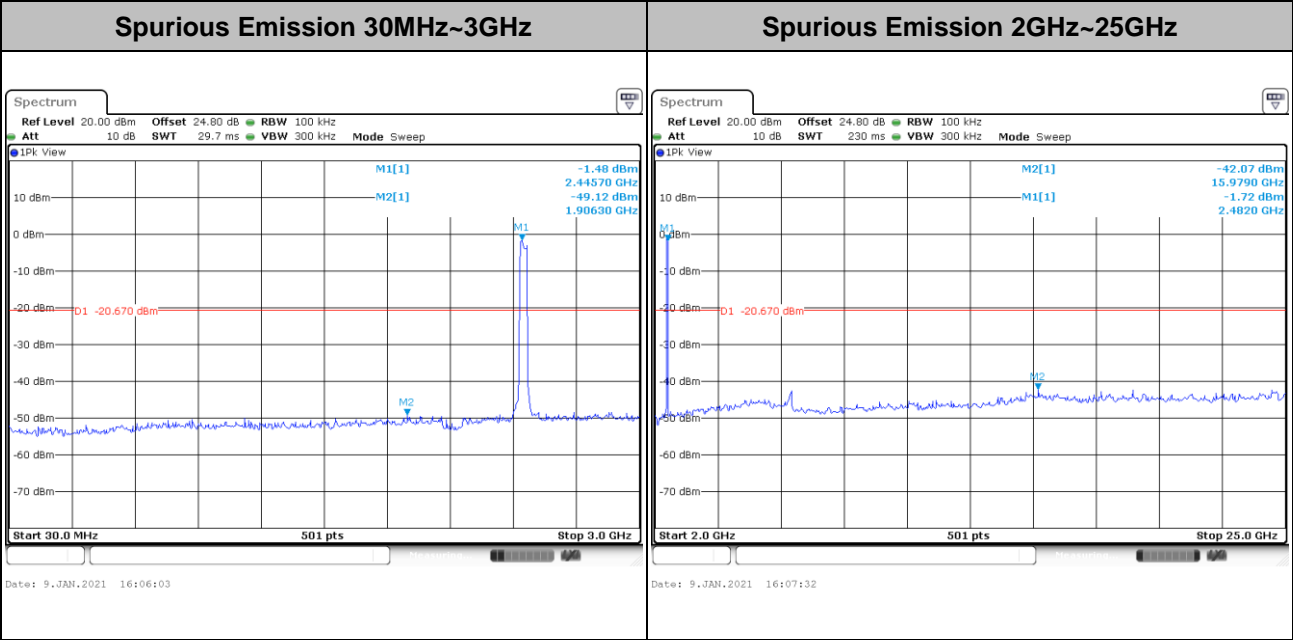
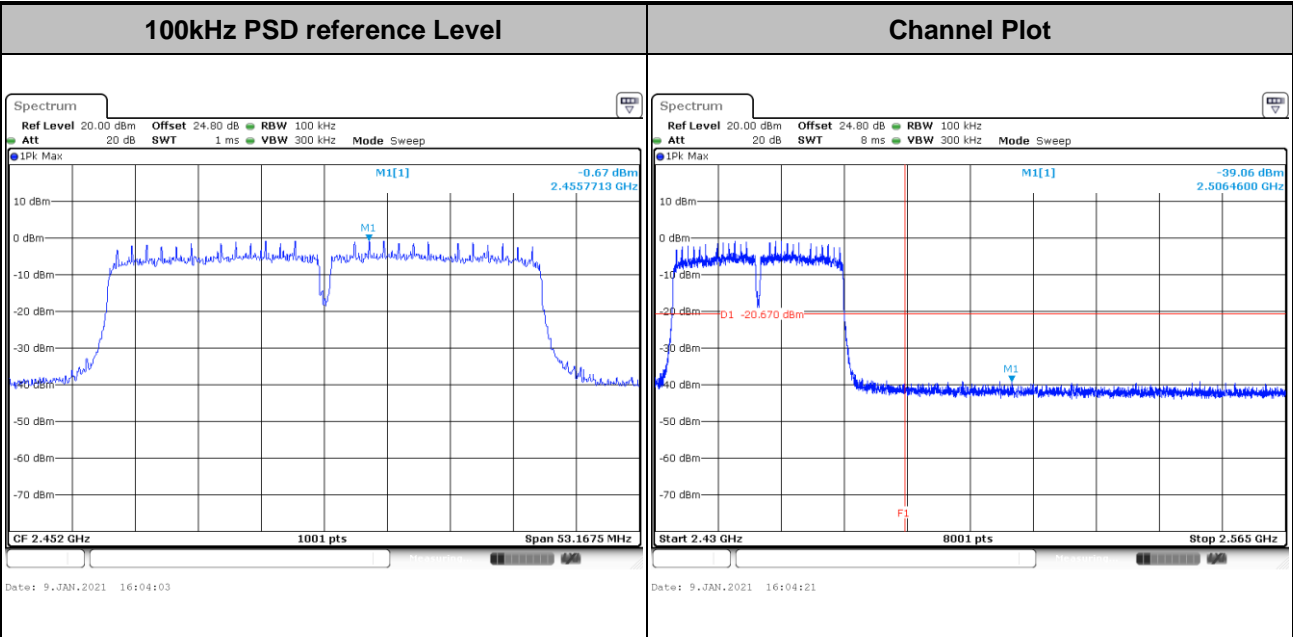


Test Mode :	802.11n HT40	Test Channel :	06
-------------	--------------	----------------	----



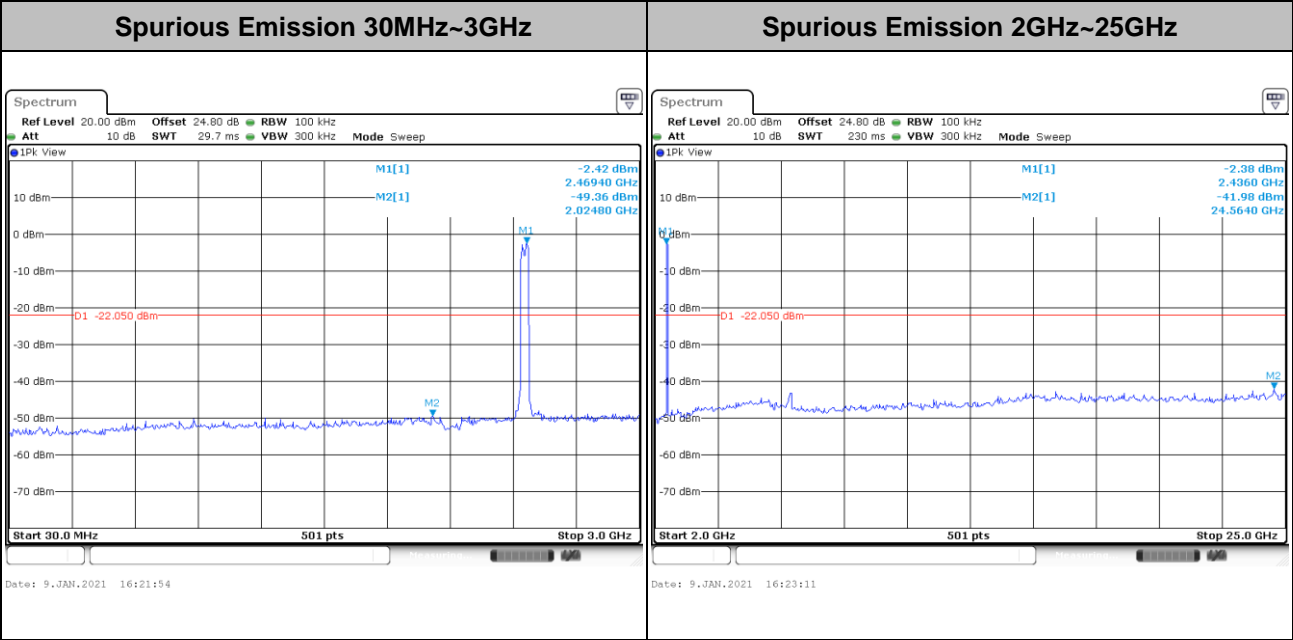
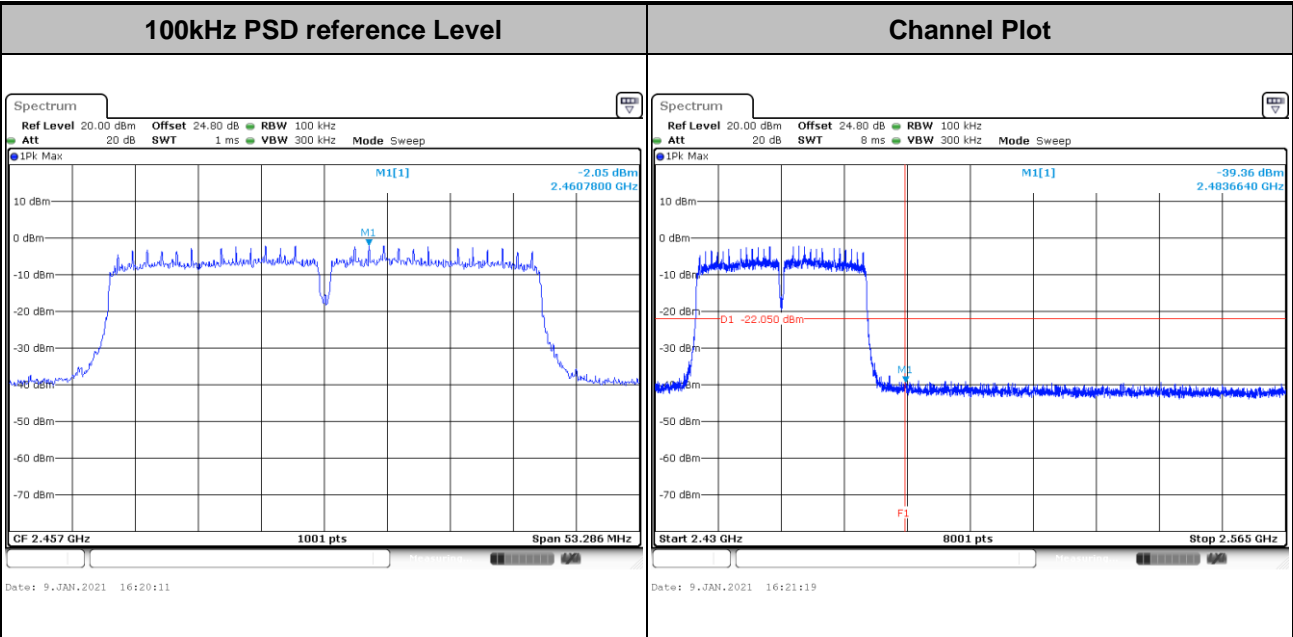


Test Mode : 802.11n HT40 Test Channel : 09



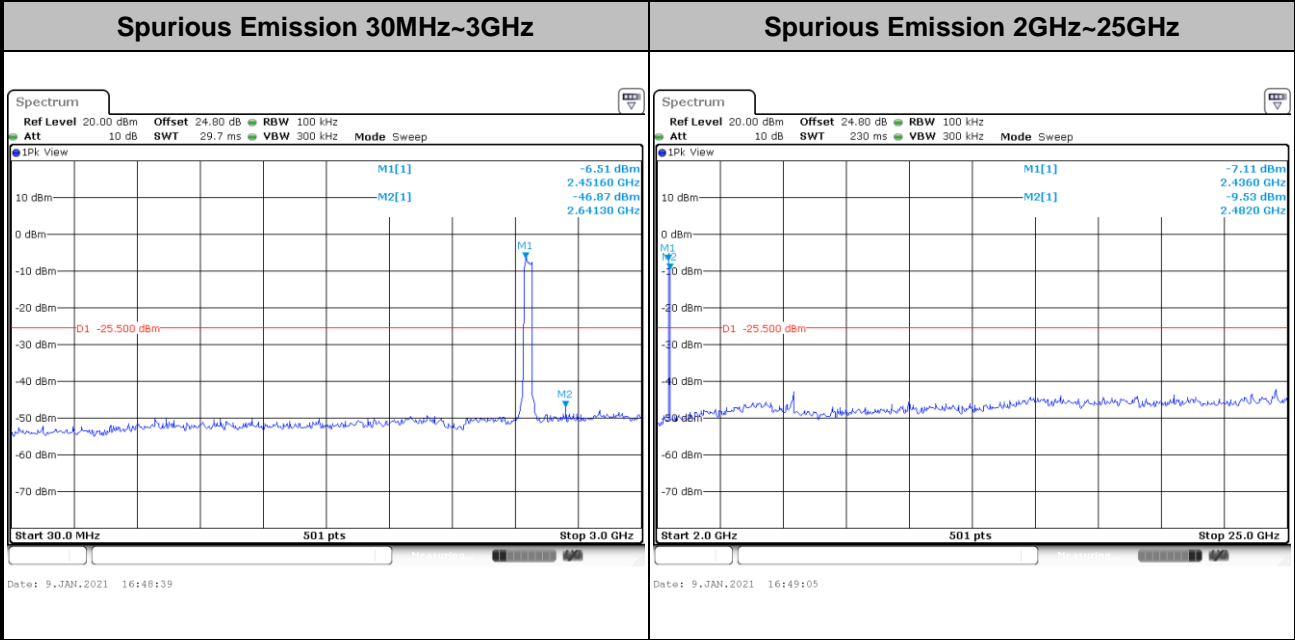
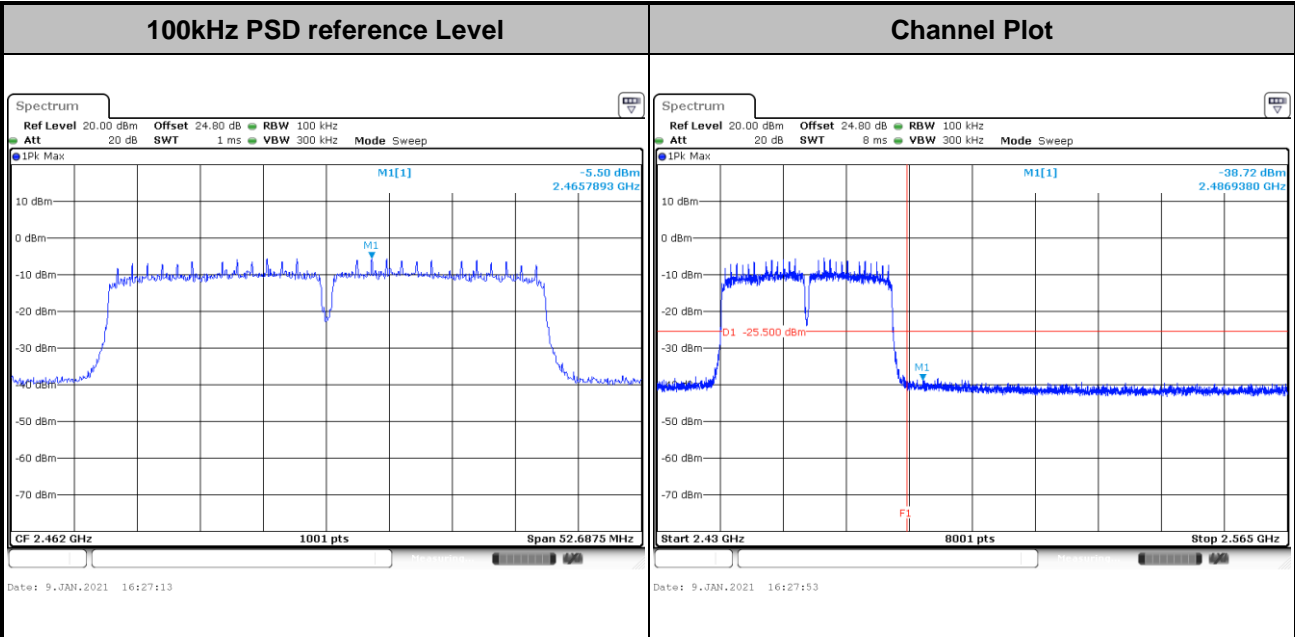


Test Mode : 802.11n HT40 Test Channel : 10





Test Mode :	802.11n HT40	Test Channel :	11
-------------	--------------	----------------	----





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

See list of measuring equipment of this test report.

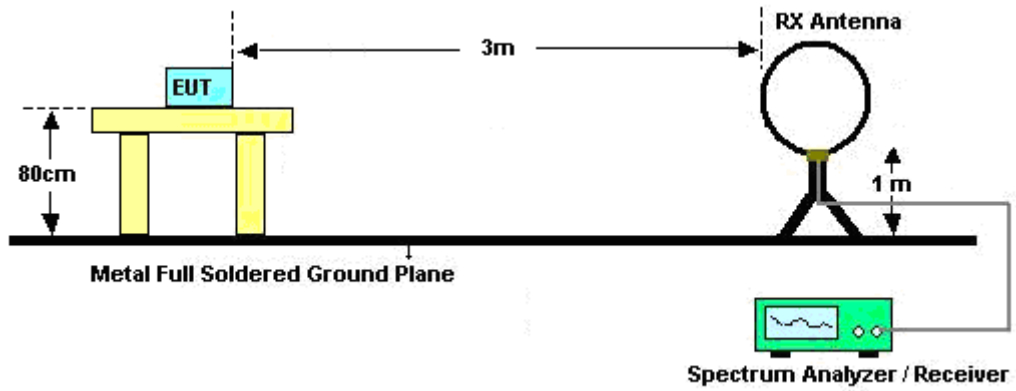


3.5.3 Test Procedures

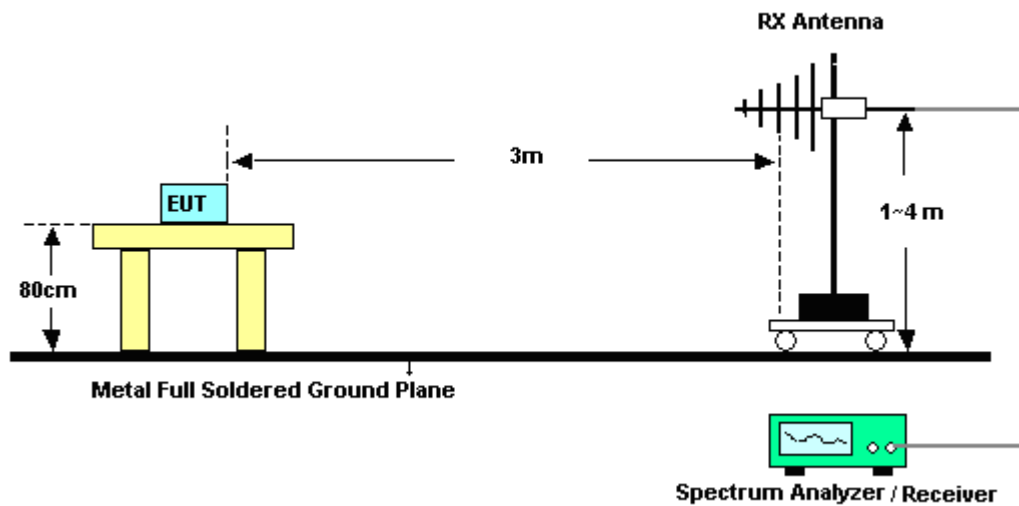
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 average 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

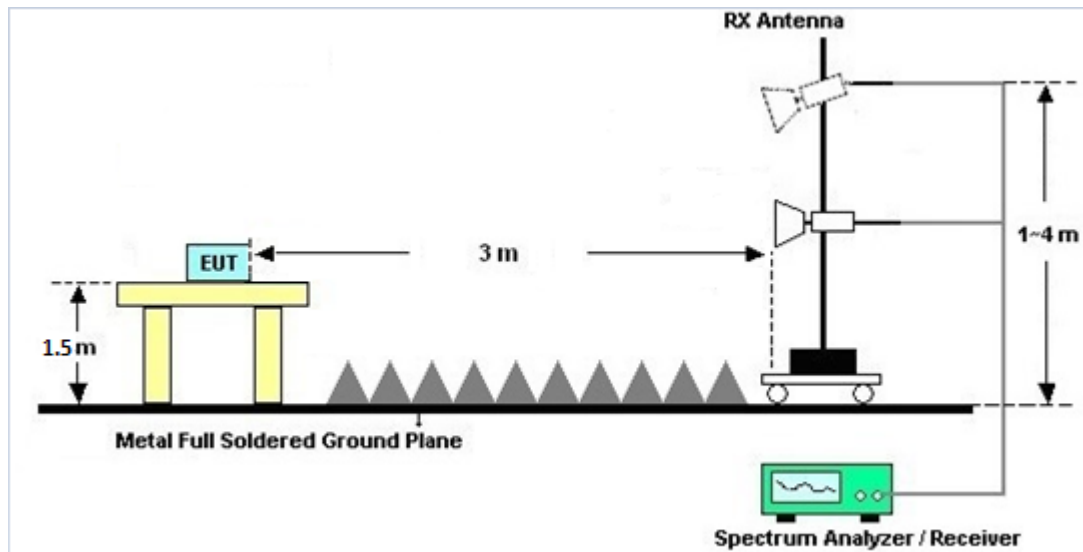
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test 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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and 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.

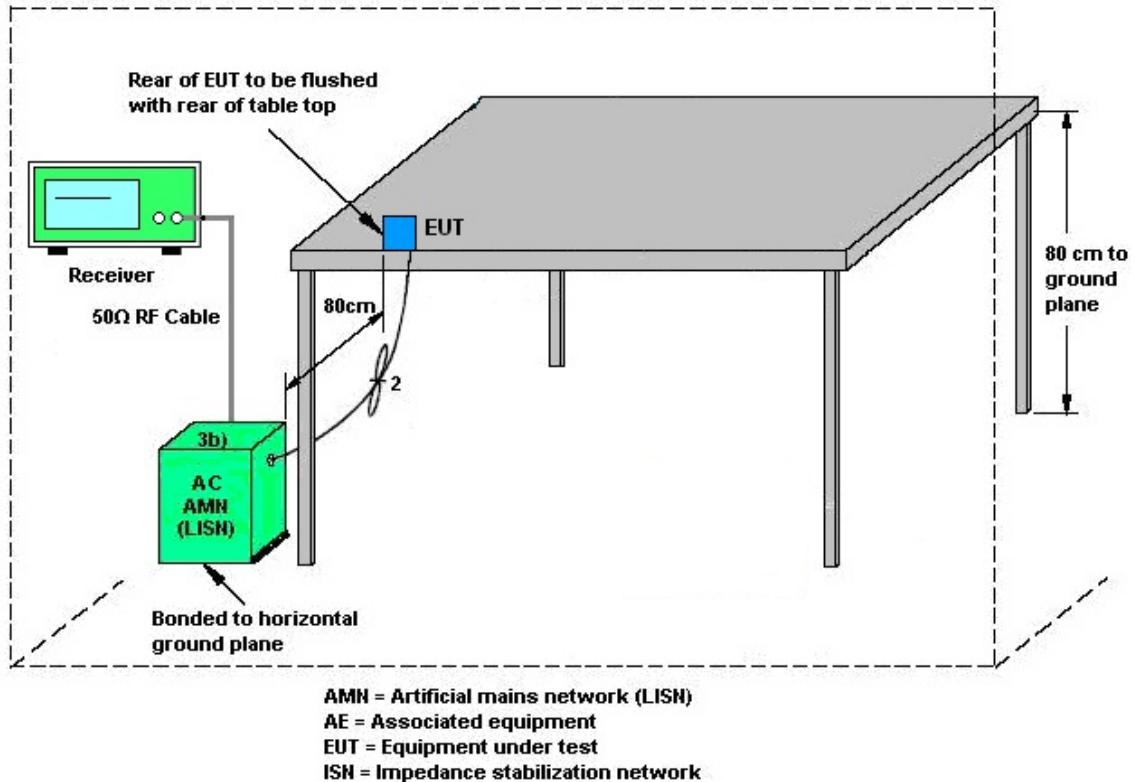
3.6.2 Measuring Instruments

See list of measuring equipment 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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 03, 2020	Dec. 03, 2020~Jan. 07, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 22, 2020	Dec. 03, 2020~Jan. 07, 2021	May 21, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Dec. 03, 2020~Jan. 07, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Dec. 03, 2020~Jan. 07, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	Dec. 03, 2020~Jan. 07, 2021	Jun. 14, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Dec. 03, 2020~Jan. 07, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Feb. 10, 2020	Dec. 03, 2020~Jan. 07, 2021	Feb. 09, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Oct. 23, 2020	Dec. 03, 2020~Jan. 07, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 03, 2020~Jan. 07, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 03, 2020~Jan. 07, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Dec. 03, 2020~Jan. 07, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Dec. 03, 2020~Jan. 07, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Dec. 03, 2020~Jan. 07, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Dec. 03, 2020~Jan. 07, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Dec. 03, 2020~Jan. 07, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Dec. 03, 2020~Jan. 07, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 14, 2020	Dec. 03, 2020~Jan. 07, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	Dec. 03, 2020~Jan. 07, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Dec. 03, 2020~Jan. 07, 2021	Nov. 17, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	QA-3-031	Oct. 22, 2020	Dec. 03, 2020~Jan. 07, 2021	Oct. 21, 2021	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 25, 2020~ Jan. 11, 2021	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Nov. 25, 2020~ Dec. 19, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO12	10MHz~6GHz	Dec. 16, 2020	Dec. 19, 2020~ Jan. 11, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 25, 2020~ Jan. 11, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 25, 2020~ Jan. 11, 2021	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 07, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Dec. 07, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Dec. 07, 2020	Nov. 15, 2021	Conduction (CO05-HY)
LISN	TESEQ	NNB 52	36122	9kHz~30MHz	Feb. 04, 2020	Dec. 07, 2020	Feb. 03, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 07, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Dec. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Dec. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Dec. 07, 2020	Mar. 01, 2021	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4
---	-----

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
---	-----

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao	Temperature:	19.4~23.9	°C
Test Date:	2020/11/25 ~ 2021/01/11	Relative Humidity:	51.5~57.7	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	14.79	-	9.06	-	0.50	Pass
11b	1Mbps	1	6	2437	14.74	-	9.54	-	0.50	Pass
11b	1Mbps	1	11	2462	14.74	-	10.04	-	0.50	Pass
11b	1Mbps	1	12	2467	14.79	-	9.56	-	0.50	Pass
11b	1Mbps	1	13	2472	14.79	-	10.04	-	0.50	Pass
11g	6Mbps	1	1	2412	16.78	-	16.52	-	0.50	Pass
11g	6Mbps	1	6	2437	16.88	-	16.32	-	0.50	Pass
11g	6Mbps	1	11	2462	16.78	-	16.50	-	0.50	Pass
11g	6Mbps	1	12	2467	16.78	-	16.54	-	0.50	Pass
11g	6Mbps	1	13	2472	17.03	-	16.54	-	0.50	Pass
HT20	MCS0	1	1	2412	17.78	-	17.28	-	0.50	Pass
HT20	MCS0	1	6	2437	17.78	-	17.54	-	0.50	Pass
HT20	MCS0	1	11	2462	18.03	-	17.54	-	0.50	Pass
HT20	MCS0	1	12	2467	17.88	-	17.54	-	0.50	Pass
HT20	MCS0	1	13	2472	18.08	-	17.64	-	0.50	Pass
HT40	MCS0	1	3	2422	35.96	-	35.33	-	0.50	Pass
HT40	MCS0	1	6	2437	35.96	-	35.37	-	0.50	Pass
HT40	MCS0	1	9	2452	35.96	-	35.45	-	0.50	Pass
HT40	MCS0	1	10	2457	36.06	-	35.52	-	0.50	Pass
HT40	MCS0	1	11	2462	36.06	-	35.13	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	19.02	-		30.00	-	4.10	-	23.12	-	36.00	-	Pass
11b	1Mbps	1	6	2437	19.57	-		30.00	-	4.10	-	23.67	-	36.00	-	Pass
11b	1Mbps	1	11	2462	18.83	-		30.00	-	4.10	-	22.93	-	36.00	-	Pass
11b	1Mbps	1	12	2467	18.88	-		30.00	-	4.10	-	22.98	-	36.00	-	Pass
11b	1Mbps	1	13	2472	17.44	-		30.00	-	4.10	-	21.54	-	36.00	-	Pass
11g	6Mbps	1	1	2412	24.79	-		30.00	-	4.10	-	28.89	-	36.00	-	Pass
11g	6Mbps	1	6	2437	25.10	-		30.00	-	4.10	-	29.20	-	36.00	-	Pass
11g	6Mbps	1	11	2462	23.96	-		30.00	-	4.10	-	28.06	-	36.00	-	Pass
11g	6Mbps	1	12	2467	22.20	-		30.00	-	4.10	-	26.30	-	36.00	-	Pass
11g	6Mbps	1	13	2472	10.17	-		30.00	-	4.10	-	14.27	-	36.00	-	Pass
HT20	MCS0	1	1	2412	24.29	-		30.00	-	4.10	-	28.39	-	36.00	-	Pass
HT20	MCS0	1	6	2437	24.90	-		30.00	-	4.10	-	29.00	-	36.00	-	Pass
HT20	MCS0	1	11	2462	23.55	-		30.00	-	4.10	-	27.65	-	36.00	-	Pass
HT20	MCS0	1	12	2467	22.30	-		30.00	-	4.10	-	26.40	-	36.00	-	Pass
HT20	MCS0	1	13	2472	7.76	-		30.00	-	4.10	-	11.86	-	36.00	-	Pass
HT40	MCS0	1	3	2422	23.94	-		30.00	-	4.10	-	28.04	-	36.00	-	Pass
HT40	MCS0	1	6	2437	23.56	-		30.00	-	4.10	-	27.66	-	36.00	-	Pass
HT40	MCS0	1	9	2452	22.51	-		30.00	-	4.10	-	26.61	-	36.00	-	Pass
HT40	MCS0	1	10	2457	21.53	-		30.00	-	4.10	-	25.63	-	36.00	-	Pass
HT40	MCS0	1	11	2462	19.40	-		30.00	-	4.10	-	23.50	-	36.00	-	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	16.70	-		30.00	-	4.10	-	20.80	-	36.00	-	Pass
11b	1Mbps	1	6	2437	17.00	-		30.00	-	4.10	-	21.10	-	36.00	-	Pass
11b	1Mbps	1	11	2462	16.60	-		30.00	-	4.10	-	20.70	-	36.00	-	Pass
11b	1Mbps	1	12	2467	16.60	-		30.00	-	4.10	-	20.70	-	36.00	-	Pass
11b	1Mbps	1	13	2472	15.60	-		30.00	-	4.10	-	19.70	-	36.00	-	Pass
11g	6Mbps	1	1	2412	16.30	-		30.00	-	4.10	-	20.40	-	36.00	-	Pass
11g	6Mbps	1	6	2437	16.60	-		30.00	-	4.10	-	20.70	-	36.00	-	Pass
11g	6Mbps	1	11	2462	15.50	-		30.00	-	4.10	-	19.60	-	36.00	-	Pass
11g	6Mbps	1	12	2467	13.60	-		30.00	-	4.10	-	17.70	-	36.00	-	Pass
11g	6Mbps	1	13	2472	0.60	-		30.00	-	4.10	-	4.70	-	36.00	-	Pass
HT20	MCS0	1	1	2412	15.70	-		30.00	-	4.10	-	19.80	-	36.00	-	Pass
HT20	MCS0	1	6	2437	16.00	-		30.00	-	4.10	-	20.10	-	36.00	-	Pass
HT20	MCS0	1	11	2462	14.90	-		30.00	-	4.10	-	19.00	-	36.00	-	Pass
HT20	MCS0	1	12	2467	13.40	-		30.00	-	4.10	-	17.50	-	36.00	-	Pass
HT20	MCS0	1	13	2472	-1.60	-		30.00	-	4.10	-	2.50	-	36.00	-	Pass
HT40	MCS0	1	3	2422	14.80	-		30.00	-	4.10	-	18.90	-	36.00	-	Pass
HT40	MCS0	1	6	2437	14.60	-		30.00	-	4.10	-	18.70	-	36.00	-	Pass
HT40	MCS0	1	9	2452	13.80	-		30.00	-	4.10	-	17.90	-	36.00	-	Pass
HT40	MCS0	1	10	2457	12.50	-		30.00	-	4.10	-	16.60	-	36.00	-	Pass
HT40	MCS0	1	11	2462	8.70	-		30.00	-	4.10	-	12.80	-	36.00	-	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-6.46	-		4.10	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-5.62	-		4.10	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-7.08	-		4.10	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-6.11	-		4.10	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-15.17	-		4.10	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-12.70	-		4.10	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-9.57	-		4.10	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-13.77	-		4.10	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-15.79	-		4.10	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-28.64	-		4.10	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-10.43	-		4.10	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-9.08	-		4.10	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-10.62	-		4.10	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-12.06	-		4.10	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-29.77	-		4.10	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-14.27	-		4.10	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-14.31	-		4.10	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-15.23	-		4.10	-	8.00	-	Pass
HT40	MCS0	1	10	2457	-16.21	-		4.10	-	8.00	-	Pass
HT40	MCS0	1	11	2462	-20.04	-		4.10	-	8.00	-	Pass

Measured power density (dBm) has offset with cable loss.



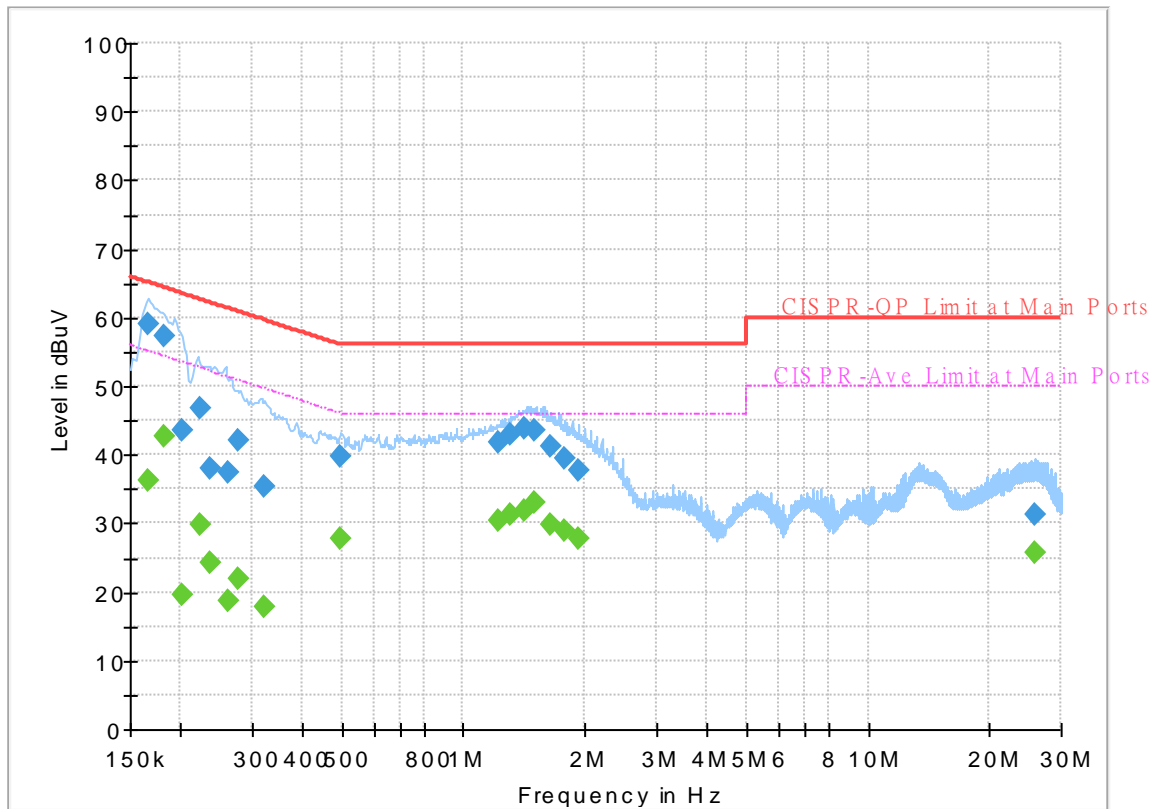
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee and Howard Huang	Temperature :	24~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 0N0645
 Test Mode : Mode 1
 Test Voltage : Power From System
 Phase : Line

Full Spectrum



Final_Result

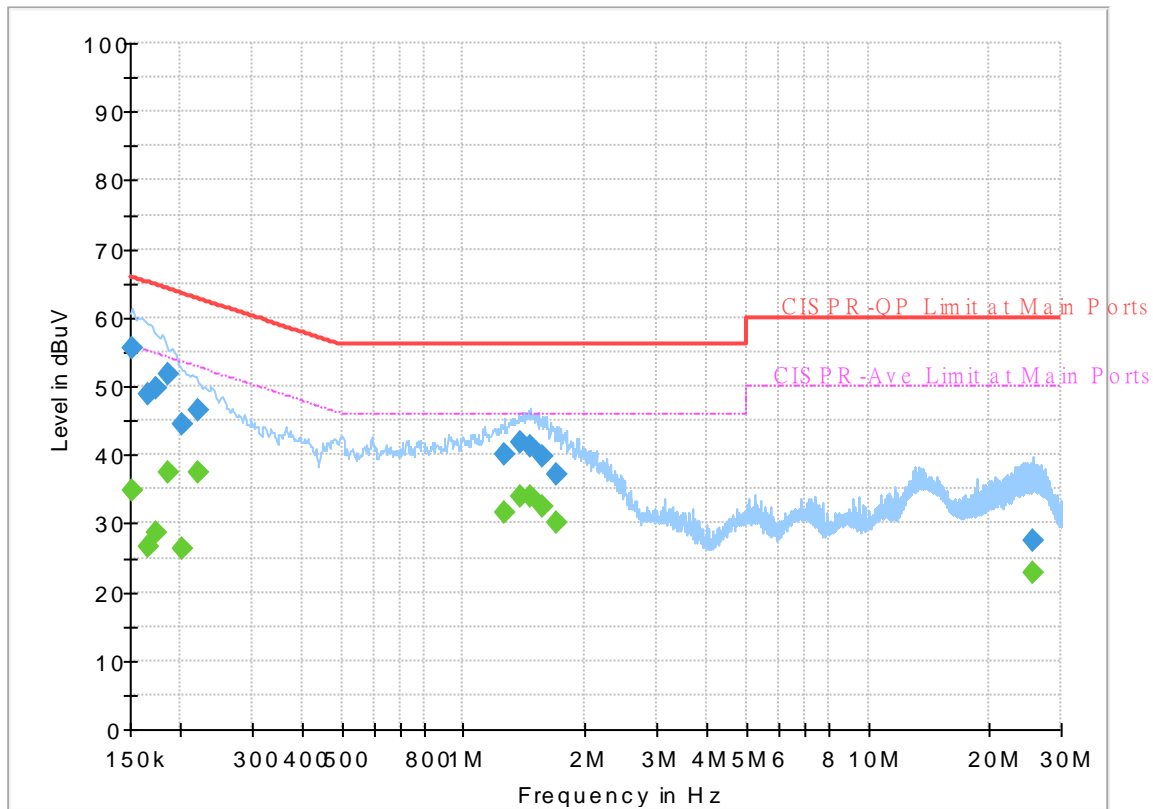
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	36.32	55.17	18.85	L1	OFF	19.5
0.165750	59.01	---	65.17	6.16	L1	OFF	19.5
0.181500	---	42.62	54.42	11.80	L1	OFF	19.5
0.181500	57.17	---	64.42	7.25	L1	OFF	19.5
0.201120	---	19.58	53.56	33.98	L1	OFF	19.5
0.201120	43.50	---	63.56	20.06	L1	OFF	19.5
0.224250	---	29.96	52.66	22.70	L1	OFF	19.5
0.224250	46.92	---	62.66	15.74	L1	OFF	19.5
0.237750	---	24.35	52.17	27.82	L1	OFF	19.5
0.237750	37.95	---	62.17	24.22	L1	OFF	19.5
0.260970	---	18.71	51.40	32.69	L1	OFF	19.5
0.260970	37.51	---	61.40	23.89	L1	OFF	19.5
0.276000	---	22.01	50.94	28.93	L1	OFF	19.5
0.276000	42.18	---	60.94	18.76	L1	OFF	19.5
0.320280	---	17.71	49.70	31.99	L1	OFF	19.5
0.320280	35.28	---	59.70	24.42	L1	OFF	19.5
0.496500	---	27.84	46.06	18.22	L1	OFF	19.5
0.496500	39.71	---	56.06	16.35	L1	OFF	19.5
1.216500	---	30.50	46.00	15.50	L1	OFF	19.6
1.216500	41.92	---	56.00	14.08	L1	OFF	19.6
1.308750	---	31.16	46.00	14.84	L1	OFF	19.6

1.308750	42.84	---	56.00	13.16	L1	OFF	19.6
1.418190	---	31.77	46.00	14.23	L1	OFF	19.6
1.418190	43.72	---	56.00	12.28	L1	OFF	19.6
1.502250	---	33.17	46.00	12.83	L1	OFF	19.6
1.502250	43.55	---	56.00	12.45	L1	OFF	19.6
1.650750	---	29.85	46.00	16.15	L1	OFF	19.6
1.650750	41.32	---	56.00	14.68	L1	OFF	19.6
1.776750	---	29.05	46.00	16.95	L1	OFF	19.6
1.776750	39.61	---	56.00	16.39	L1	OFF	19.6
1.925250	---	27.75	46.00	18.25	L1	OFF	19.6
1.925250	37.64	---	56.00	18.36	L1	OFF	19.6
25.777410	---	25.88	50.00	24.12	L1	OFF	19.8
25.777410	31.38	---	60.00	28.62	L1	OFF	19.8

EUT Information

Report NO : 0N0645
 Test Mode : Mode 1
 Test Voltage : Power From System
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	34.86	55.88	21.02	N	OFF	19.5
0.152250	55.47	---	65.88	10.41	N	OFF	19.5
0.165300	---	26.70	55.19	28.49	N	OFF	19.5
0.165300	48.82	---	65.19	16.37	N	OFF	19.5
0.174750	---	28.71	54.73	26.02	N	OFF	19.5
0.174750	49.68	---	64.73	15.05	N	OFF	19.5
0.186000	---	37.35	54.21	16.86	N	OFF	19.5
0.186000	51.62	---	64.21	12.59	N	OFF	19.5
0.201750	---	26.34	53.54	27.20	N	OFF	19.5
0.201750	44.30	---	63.54	19.24	N	OFF	19.5
0.222000	---	37.46	52.74	15.28	N	OFF	19.5
0.222000	46.62	---	62.74	16.12	N	OFF	19.5
1.258350	---	31.67	46.00	14.33	N	OFF	19.6
1.258350	40.06	---	56.00	15.94	N	OFF	19.6
1.378500	---	33.99	46.00	12.01	N	OFF	19.6
1.378500	41.80	---	56.00	14.20	N	OFF	19.6
1.457250	---	33.95	46.00	12.05	N	OFF	19.6
1.457250	41.37	---	56.00	14.63	N	OFF	19.6
1.574250	---	32.34	46.00	13.66	N	OFF	19.6
1.574250	39.72	---	56.00	16.28	N	OFF	19.6
1.704750	---	30.06	46.00	15.94	N	OFF	19.6

1.704750	37.18	---	56.00	18.82	N	OFF	19.6
25.643400	---	22.88	50.00	27.12	N	OFF	20.0
25.643400	27.35	---	60.00	32.65	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Cheng, Fu Chen and Troye Hsieh	Temperature :	18.4~25°C
		Relative Humidity :	40~69.9%

<Sample 1>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	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		2384.97	58.24	-15.76	74	47.56	27.53	16.61	33.46	100	151	P	H	
		2390	44.3	-9.7	54	33.62	27.52	16.62	33.46	100	151	A	H	
	*	2412	107.53	-	-	96.83	27.5	16.64	33.44	100	151	P	H	
	*	2412	103.98	-	-	93.28	27.5	16.64	33.44	100	151	A	H	
													H	
			2365.755	52.76	-21.24	74	42.06	27.57	16.6	33.47	312	357	P	V
			2389.8	42.14	-11.86	54	31.46	27.52	16.62	33.46	312	357	A	V
	*		2412	102.62	-	-	91.92	27.5	16.64	33.44	312	357	P	V
	*		2412	99.11	-	-	88.41	27.5	16.64	33.44	312	357	A	V
														V
802.11b CH 06 2437MHz		2361.68	53.98	-20.02	74	43.28	27.58	16.59	33.47	100	113	P	H	
		2317.84	43.58	-10.42	54	32.86	27.66	16.55	33.49	100	113	A	H	
	*	2437	108.08	-	-	97.34	27.5	16.67	33.43	100	113	P	H	
	*	2437	104.51	-	-	93.77	27.5	16.67	33.43	100	113	A	H	
			2484.32	55.59	-18.41	74	44.85	27.43	16.72	33.41	100	113	P	H
			2483.6	43.54	-10.46	54	32.8	27.43	16.72	33.41	100	113	A	H
			2367.12	53.01	-20.99	74	42.31	27.57	16.6	33.47	307	358	P	V
			2316.24	41.75	-12.25	54	31.02	27.67	16.55	33.49	307	358	A	V
	*		2437	103.56	-	-	92.82	27.5	16.67	33.43	307	358	P	V
	*		2437	100.04	-	-	89.3	27.5	16.67	33.43	307	358	A	V
			2499.52	52.48	-21.52	74	41.74	27.4	16.74	33.4	307	358	P	V
			2483.6	41.6	-12.4	54	30.86	27.43	16.72	33.41	307	358	A	V



802.11b CH 11 2462MHz	*	2462	107.91	-	-	97.15	27.48	16.7	33.42	108	112	P	H
	*	2462	104.34	-	-	93.58	27.48	16.7	33.42	108	112	A	H
		2484.52	62.56	-11.44	74	51.82	27.43	16.72	33.41	108	112	P	H
		2483.56	45.26	-8.74	54	34.52	27.43	16.72	33.41	108	112	A	H
													H
													H
	*	2462	101.36	-	-	90.6	27.48	16.7	33.42	334	356	P	V
	*	2462	98.24	-	-	87.48	27.48	16.7	33.42	334	356	A	V
		2483.64	58.62	-15.38	74	47.88	27.43	16.72	33.41	334	356	P	V
		2483.52	43.48	-10.52	54	32.74	27.43	16.72	33.41	334	356	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	108.37	-	-	97.62	27.47	16.7	33.42	100	109	P	H
	*	2467	104.31	-	-	93.56	27.47	16.7	33.42	100	109	A	H
		2483.6	66.23	-7.77	74	55.49	27.43	16.72	33.41	100	109	P	H
		2484.16	48.66	-5.34	54	37.92	27.43	16.72	33.41	100	109	A	H
													H
													H
	*	2467	102.44	-	-	91.69	27.47	16.7	33.42	332	92	P	V
	*	2467	98.98	-	-	88.23	27.47	16.7	33.42	332	92	A	V
		2484.96	59.92	-14.08	74	49.18	27.43	16.72	33.41	332	92	P	V
		2484.2	44.46	-9.54	54	33.72	27.43	16.72	33.41	332	92	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	107.33	-	-	96.57	27.46	16.71	33.41	100	112	P	H
	*	2472	103.69	-	-	92.93	27.46	16.71	33.41	100	112	A	H
		2483.68	71.17	-2.83	74	60.43	27.43	16.72	33.41	100	112	P	H
		2486.88	52.99	-1.01	54	42.24	27.43	16.73	33.41	100	112	A	H
													H
													H
	*	2472	101.39	-	-	90.63	27.46	16.71	33.41	355	60	P	V
	*	2472	97.8	-	-	87.04	27.46	16.71	33.41	355	60	A	V
		2484.76	65.07	-8.93	74	54.33	27.43	16.72	33.41	355	60	P	V
		2486.96	48.28	-5.72	54	37.53	27.43	16.73	33.41	355	60	A	V
													V
													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	38.76	-35.24	74	62.94	31	10.98	66.16	1000		P	H	
													H	
													H	
													H	
			4824	37.39	-36.61	74	61.57	31	10.98	66.16	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	39.74	-34.26	74	63.43	31.43	11	66.12	100	0	P	H	
		7311	56.68	-17.32	74	72.61	36.4	13.39	65.72	100	243	P	H	
		7311	52.26	-1.74	54	68.19	36.4	13.39	65.72	100	243	A	H	
													H	
			4874	38.06	-35.94	74	61.75	31.43	11	66.12	100	0	P	V
			7311	48.9	-25.1	74	64.83	36.4	13.39	65.72	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	40.82	-33.18	74	64.41	31.47	11.02	66.08	100	0	P	H	
		7386	53.87	-20.13	74	69.96	36.4	13.27	65.76	100	243	P	H	
		7386	49.63	-4.37	54	65.72	36.4	13.27	65.76	100	243	A	H	
													H	
			4924	38.81	-35.19	74	62.4	31.47	11.02	66.08	100	0	P	V
			7386	47.6	-26.4	74	63.69	36.4	13.27	65.76	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	38.96	-35.04	74	62.72	31.29	11.03	66.08	100	0	P	H
		7401	53.83	-20.17	74	69.95	36.4	13.25	65.77	108	243	P	H
		7401	49.46	-4.54	54	65.58	36.4	13.25	65.77	108	243	A	H
													H
		4934	38.72	-35.28	74	62.48	31.29	11.03	66.08	100	0	P	V
		7401	47.11	-26.89	74	63.23	36.4	13.25	65.77	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	39.5	-34.5	74	63.42	31.11	11.04	66.07	100	0	P	H
		7416	53.01	-20.99	74	69.07	36.46	13.26	65.78	106	244	P	H
		7416	47.96	-6.04	54	64.02	36.46	13.26	65.78	106	244	A	H
													H
		4944	38.33	-35.67	74	62.25	31.11	11.04	66.07	100	0	P	V
		7416	46.12	-27.88	74	62.18	36.46	13.26	65.78	100	0	P	V
													V
													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)**

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		2390	66.84	-7.16	74	56.16	27.52	16.62	33.46	100	146	P	H	
		2389.8	51.35	-2.65	54	40.67	27.52	16.62	33.46	100	146	A	H	
	*	2412	109.56	-	-	98.86	27.5	16.64	33.44	100	146	P	H	
	*	2412	101.9	-	-	91.2	27.5	16.64	33.44	100	146	A	H	
													H	
														H
			2390	62.96	-11.04	74	52.28	27.52	16.62	33.46	400	360	P	V
			2390	48.26	-5.74	54	37.58	27.52	16.62	33.46	400	360	A	V
	*		2412	104.68	-	-	93.98	27.5	16.64	33.44	400	360	P	V
	*		2412	97.04	-	-	86.34	27.5	16.64	33.44	400	360	A	V
														V
														V
802.11g CH 06 2437MHz		2377.68	53.78	-20.22	74	43.09	27.54	16.61	33.46	100	147	P	H	
		2389.36	43.58	-10.42	54	32.9	27.52	16.62	33.46	100	147	A	H	
	*	2437	109.37	-	-	98.63	27.5	16.67	33.43	100	147	P	H	
	*	2437	101.55	-	-	90.81	27.5	16.67	33.43	100	147	A	H	
			2487.52	54.1	-19.9	74	43.36	27.42	16.73	33.41	100	147	P	H
			2484	44.12	-9.88	54	33.38	27.43	16.72	33.41	100	147	A	H
			2384.24	52.74	-21.26	74	42.06	27.53	16.61	33.46	347	353	P	V
			2354.64	42.34	-11.66	54	31.64	27.59	16.58	33.47	347	353	A	V
	*		2437	104.92	-	-	94.18	27.5	16.67	33.43	347	353	P	V
	*		2437	97.24	-	-	86.5	27.5	16.67	33.43	347	353	A	V
			2487.36	52.63	-21.37	74	41.88	27.43	16.73	33.41	347	353	P	V
			2489.28	42.57	-11.43	54	31.83	27.42	16.73	33.41	347	353	A	V



802.11g CH 11 2462MHz	*	2462	108.27	-	-	97.51	27.48	16.7	33.42	100	109	P	H
	*	2462	99.98	-	-	89.22	27.48	16.7	33.42	100	109	A	H
		2483.55	69.1	-4.9	74	58.36	27.43	16.72	33.41	100	109	P	H
		2483.7	52.07	-1.93	54	41.33	27.43	16.72	33.41	100	109	A	H
													H
													H
	*	2462	104.19	-	-	93.43	27.48	16.7	33.42	380	353	P	V
	*	2462	95.82	-	-	85.06	27.48	16.7	33.42	380	353	A	V
		2483.8	64.95	-9.05	74	54.21	27.43	16.72	33.41	380	353	P	V
		2483.6	48.15	-5.85	54	37.41	27.43	16.72	33.41	380	353	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	105.91	-	-	95.16	27.47	16.7	33.42	114	112	P	H
	*	2467	98.17	-	-	87.42	27.47	16.7	33.42	114	112	A	H
		2483.8	64.84	-9.16	74	54.1	27.43	16.72	33.41	114	112	P	H
		2483.65	51.97	-2.03	54	41.23	27.43	16.72	33.41	114	112	A	H
													H
													H
	*	2462	101.6	-	-	90.84	27.48	16.7	33.42	381	355	P	V
	*	2462	93.88	-	-	83.12	27.48	16.7	33.42	381	355	A	V
		2484.25	62.73	-11.27	74	51.99	27.43	16.72	33.41	381	355	P	V
		2483.5	47.21	-6.79	54	36.47	27.43	16.72	33.41	381	355	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	94.8	-	-	84.04	27.46	16.71	33.41	100	110	P	H
	*	2472	87.24	-	-	76.48	27.46	16.71	33.41	100	110	A	H
		2483.55	66.69	-7.31	74	55.95	27.43	16.72	33.41	100	110	P	H
		2483.5	52.5	-1.5	54	41.76	27.43	16.72	33.41	100	110	A	H
													H
													H
	*	2472	90.95	-	-	80.19	27.46	16.71	33.41	381	355	P	V
	*	2472	83.27	-	-	72.51	27.46	16.71	33.41	381	355	A	V
		2483.55	63.47	-10.53	74	52.73	27.43	16.72	33.41	381	355	P	V
		2483.5	48.47	-5.53	54	37.73	27.43	16.72	33.41	381	355	A	V
													V
													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 (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	37.66	-36.34	74	61.84	31	10.98	66.16	100	0	P	H	
													H	
													H	
													H	
			4824	38.76	-35.24	74	62.94	31	10.98	66.16	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	38.63	-35.37	74	62.32	31.43	11	66.12	100	0	P	H	
		7311	65.34	-8.66	74	81.27	36.4	13.39	65.72	100	243	P	H	
		7311	52.06	-1.94	54	67.99	36.4	13.39	65.72	100	243	A	H	
													H	
			4874	39.14	-34.86	74	62.83	31.43	11	66.12	100	0	P	V
			7311	60.35	-13.65	74	76.28	36.4	13.39	65.72	389	273	P	V
			7311	48.53	-5.47	54	64.46	36.4	13.39	65.72	389	273	A	V
802.11g CH 11 2462MHz		4924	38.87	-35.13	74	62.46	31.47	11.02	66.08	100	0	P	H	
		7386	60.41	-13.59	74	76.5	36.4	13.27	65.76	100	244	P	H	
		7386	46.01	-7.99	54	62.1	36.4	13.27	65.76	100	244	A	H	
													H	
			4924	39.15	-34.85	74	62.74	31.47	11.02	66.08	100	0	P	V
			7386	49.46	-24.54	74	65.55	36.4	13.27	65.76	100	0	P	V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	39.56	-34.44	74	63.32	31.29	11.03	66.08	100	0	P	H
		7401	48	-26	74	64.12	36.4	13.25	65.77	100	0	P	H
													H
													H
		4934	38.03	-35.97	74	61.79	31.29	11.03	66.08	100	0	P	V
		7401	45.03	-28.97	74	61.15	36.4	13.25	65.77	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	38.27	-35.73	74	62.19	31.11	11.04	66.07	100	0	P	H
		7416	40.56	-33.44	74	56.62	36.46	13.26	65.78	100	0	P	H
													H
													H
		4944	38.15	-35.85	74	62.07	31.11	11.04	66.07	100	0	P	V
		7416	40.29	-33.71	74	56.35	36.46	13.26	65.78	100	0	P	V
													V
													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		2388.015	64.44	-9.56	74	53.76	27.52	16.62	33.46	100	146	P	H	
		2390	50.73	-3.27	54	40.05	27.52	16.62	33.46	100	146	A	H	
	*	2412	109.08	-	-	98.38	27.5	16.64	33.44	100	146	P	H	
	*	2412	101.04	-	-	90.34	27.5	16.64	33.44	100	146	A	H	
													H	
													H	
			2389.905	60.79	-13.21	74	50.11	27.52	16.62	33.46	400	360	P	V
			2389.905	47.36	-6.64	54	36.68	27.52	16.62	33.46	400	360	A	V
		*	2412	103.93	-	-	93.23	27.5	16.64	33.44	400	360	P	V
		*	2412	96.22	-	-	85.52	27.5	16.64	33.44	400	360	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2383.44	53.35	-20.65	74	42.67	27.53	16.61	33.46	100	145	P	H	
		2388.08	43.52	-10.48	54	32.84	27.52	16.62	33.46	100	145	A	H	
		*	2437	108.77	-	-	98.03	27.5	16.67	33.43	100	145	P	H
		*	2437	101.14	-	-	90.4	27.5	16.67	33.43	100	145	A	H
			2484.48	55.3	-18.7	74	44.56	27.43	16.72	33.41	100	145	P	H
			2483.68	44.28	-9.72	54	33.54	27.43	16.72	33.41	100	145	A	H
			2313.68	52.79	-21.21	74	42.07	27.67	16.54	33.49	346	353	P	V
			2339.44	42.44	-11.56	54	31.73	27.62	16.57	33.48	346	353	A	V
		*	2437	104.13	-	-	93.39	27.5	16.67	33.43	346	353	P	V
		*	2437	96.52	-	-	85.78	27.5	16.67	33.43	346	353	A	V
		2489.36	52.87	-21.13	74	42.13	27.42	16.73	33.41	346	353	P	V	
		2483.76	42.51	-11.49	54	31.77	27.43	16.72	33.41	346	353	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	107.37	-	-	96.61	27.48	16.7	33.42	113	111	P	H
	*	2462	99.54	-	-	88.78	27.48	16.7	33.42	113	111	A	H
		2483.95	69.27	-4.73	74	58.53	27.43	16.72	33.41	113	111	P	H
		2483.55	52.43	-1.57	54	41.69	27.43	16.72	33.41	113	111	A	H
													H
													H
	*	2462	102.8	-	-	92.04	27.48	16.7	33.42	380	355	P	V
	*	2462	95.09	-	-	84.33	27.48	16.7	33.42	380	355	A	V
		2483.7	63.49	-10.51	74	52.75	27.43	16.72	33.41	380	355	P	V
		2483.5	47.67	-6.33	54	36.93	27.43	16.72	33.41	380	355	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	105.52	-	-	94.77	27.47	16.7	33.42	114	110	P	H
	*	2467	97.66	-	-	86.91	27.47	16.7	33.42	114	110	A	H
		2483.5	66.72	-7.28	74	55.98	27.43	16.72	33.41	114	110	P	H
		2483.55	51.81	-2.19	54	41.07	27.43	16.72	33.41	114	110	A	H
													H
													H
	*	2467	101.1	-	-	90.35	27.47	16.7	33.42	380	355	P	V
	*	2467	93.48	-	-	82.73	27.47	16.7	33.42	380	355	A	V
		2483.85	61.85	-12.15	74	51.11	27.43	16.72	33.41	380	355	P	V
		2483.6	47.49	-6.51	54	36.75	27.43	16.72	33.41	380	355	A	V
												V	
												V	
802.11n HT20 CH 13 2472MHz	*	2472	93.42	-	-	82.66	27.46	16.71	33.41	113	114	P	H
	*	2472	85.46	-	-	74.7	27.46	16.71	33.41	113	114	A	H
		2483.5	66.15	-7.85	74	55.41	27.43	16.72	33.41	113	114	P	H
		2483.5	52.22	-1.78	54	41.48	27.43	16.72	33.41	113	114	A	H
													H
													H
	*	2472	89.49	-	-	78.73	27.46	16.71	33.41	332	356	P	V
	*	2472	81.29	-	-	70.53	27.46	16.71	33.41	332	356	A	V
		2483.55	63.18	-10.82	74	52.44	27.43	16.72	33.41	332	356	P	V
		2483.5	48.79	-5.21	54	38.05	27.43	16.72	33.41	332	356	A	V
												V	
												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	38.55	-35.45	74	62.73	31	10.98	66.16	100	0	P	H	
													H	
													H	
													H	
			4824	37.8	-36.2	74	61.98	31	10.98	66.16	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	38.23	-35.77	74	61.92	31.43	11	66.12	100	0	P	H	
		7311	63.06	-10.94	74	78.99	36.4	13.39	65.72	100	245	P	H	
		7311	50.68	-3.32	54	66.61	36.4	13.39	65.72	100	245	A	H	
													H	
			4874	38.93	-35.07	74	62.62	31.43	11	66.12	100	0	P	V
			7311	58.62	-15.38	74	74.55	36.4	13.39	65.72	400	275	P	V
			7311	45.83	-8.17	54	61.76	36.4	13.39	65.72	400	275	A	V
													V	
802.11n HT20 CH 11 2462MHz		4924	38.24	-35.76	74	61.83	31.47	11.02	66.08	100	0	P	H	
		7386	50.47	-23.53	74	66.56	36.4	13.27	65.76	100	0	P	H	
													H	
													H	
			4924	39.8	-34.2	74	63.39	31.47	11.02	66.08	100	0	P	V
			7386	48.78	-25.22	74	64.87	36.4	13.27	65.76	100	0	P	V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	38.46	-35.54	74	62.22	31.29	11.03	66.08	100	0	P	H
		7401	47.7	-26.3	74	63.82	36.4	13.25	65.77	100	0	P	H
													H
													H
		4934	38.09	-35.91	74	61.85	31.29	11.03	66.08	100	0	P	V
		7401	44.06	-29.94	74	60.18	36.4	13.25	65.77	100	0	P	V
													V
802.11n HT20 CH 13 2472MHz		4944	37.86	-36.14	74	61.78	31.11	11.04	66.07	100	0	P	H
		7416	40.26	-33.74	74	56.32	36.46	13.26	65.78	100	0	P	H
													H
													H
		4944	37.65	-36.35	74	61.57	31.11	11.04	66.07	100	0	P	V
		7416	40.07	-33.93	74	56.13	36.46	13.26	65.78	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		2390	65.01	-8.99	74	54.33	27.52	16.62	33.46	100	112	P	H
		2389.36	51.68	-2.32	54	41	27.52	16.62	33.46	100	112	A	H
	*	2422	105.56	-	-	94.85	27.5	16.65	33.44	100	112	P	H
	*	2422	97.67	-	-	86.96	27.5	16.65	33.44	100	112	A	H
		2483.92	56.25	-17.75	74	45.51	27.43	16.72	33.41	100	112	P	H
		2484.32	45.63	-8.37	54	34.89	27.43	16.72	33.41	100	112	A	H
		2389.52	59.78	-14.22	74	49.1	27.52	16.62	33.46	392	354	P	V
		2390	47.39	-6.61	54	36.71	27.52	16.62	33.46	392	354	A	V
	*	2422	100.7	-	-	89.99	27.5	16.65	33.44	392	354	P	V
	*	2422	93	-	-	82.29	27.5	16.65	33.44	392	354	A	V
		2496.32	52.62	-21.38	74	41.87	27.41	16.74	33.4	392	354	P	V
		2485.2	43.49	-10.51	54	32.75	27.43	16.72	33.41	392	354	A	V
802.11n HT40 CH 06 2437MHz		2389.52	60.17	-13.83	74	49.49	27.52	16.62	33.46	100	110	P	H
		2389.04	47.42	-6.58	54	36.74	27.52	16.62	33.46	100	110	A	H
	*	2437	105.07	-	-	94.33	27.5	16.67	33.43	100	110	P	H
	*	2437	97.61	-	-	86.87	27.5	16.67	33.43	100	110	A	H
		2484.96	63.96	-10.04	74	53.22	27.43	16.72	33.41	100	110	P	H
		2484.8	50.68	-3.32	54	39.94	27.43	16.72	33.41	100	110	A	H
		2389.36	54.75	-19.25	74	44.07	27.52	16.62	33.46	387	355	P	V
		2388.88	43.88	-10.12	54	33.2	27.52	16.62	33.46	387	355	A	V
	*	2437	102.07	-	-	91.33	27.5	16.67	33.43	387	355	P	V
	*	2437	93.37	-	-	82.63	27.5	16.67	33.43	387	355	A	V
		2485.2	57.92	-16.08	74	47.18	27.43	16.72	33.41	387	355	P	V
		2484.48	46.24	-7.76	54	35.5	27.43	16.72	33.41	387	355	A	V



802.11n HT40 CH 09 2452MHz		2387.92	53.06	-20.94	74	42.38	27.52	16.62	33.46	112	114	P	H
		2380.4	43.93	-10.07	54	33.24	27.54	16.61	33.46	112	114	A	H
	*	2452	103.54	-	-	92.77	27.5	16.69	33.42	112	114	P	H
	*	2452	96.14	-	-	85.37	27.5	16.69	33.42	112	114	A	H
		2483.76	63.84	-10.16	74	53.1	27.43	16.72	33.41	112	114	P	H
		2484.16	52.01	-1.99	54	41.27	27.43	16.72	33.41	112	114	A	H
		2352.08	53.14	-20.86	74	42.43	27.6	16.58	33.47	387	355	P	V
		2335.44	43.4	-10.6	54	32.68	27.63	16.57	33.48	387	355	A	V
	*	2452	99.55	-	-	88.78	27.5	16.69	33.42	387	355	P	V
	*	2452	91.48	-	-	80.71	27.5	16.69	33.42	387	355	A	V
		2484.24	59.21	-14.79	74	48.47	27.43	16.72	33.41	387	355	P	V
		2483.68	46.79	-7.21	54	36.05	27.43	16.72	33.41	387	355	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 10 2457MHz		2319.92	53.6	-20.4	74	42.88	27.66	16.55	33.49	112	110	P	H
		2386.48	43.99	-10.01	54	33.3	27.53	16.62	33.46	112	110	A	H
	*	2457	103.48	-	-	92.72	27.49	16.69	33.42	112	110	P	H
	*	2457	95.87	-	-	85.11	27.49	16.69	33.42	112	110	A	H
		2488.96	68.09	-5.91	74	57.35	27.42	16.73	33.41	112	110	P	H
		2483.68	52.52	-1.48	54	41.78	27.43	16.72	33.41	112	110	A	H
		2352.24	52.66	-21.34	74	41.95	27.6	16.58	33.47	301	211	P	V
		2330.16	43.25	-10.75	54	32.53	27.64	16.56	33.48	301	211	A	V
	*	2457	98.19	-	-	87.43	27.49	16.69	33.42	301	211	P	V
	*	2457	90.76	-	-	80	27.49	16.69	33.42	301	211	A	V
		2488.96	57.3	-16.7	74	46.56	27.42	16.73	33.41	301	211	P	V
		2484.32	46.75	-7.25	54	36.01	27.43	16.72	33.41	301	211	A	V
802.11n HT40 CH 11 2462MHz		2336.56	53.04	-20.96	74	42.32	27.63	16.57	33.48	110	112	P	H
		2382.16	43.97	-10.03	54	33.28	27.54	16.61	33.46	110	112	A	H
	*	2462	100.61	-	-	89.85	27.48	16.7	33.42	110	112	P	H
	*	2462	92.89	-	-	82.13	27.48	16.7	33.42	110	112	A	H
		2483.6	70.31	-3.69	74	59.57	27.43	16.72	33.41	110	112	P	H
		2483.68	52.38	-1.62	54	41.64	27.43	16.72	33.41	110	112	A	H
		2327.28	53	-21	74	42.28	27.65	16.56	33.49	333	354	P	V
		2375.44	43.51	-10.49	54	32.81	27.55	16.61	33.46	333	354	A	V
	*	2462	95.24	-	-	84.48	27.48	16.7	33.42	333	354	P	V
	*	2462	87.92	-	-	77.16	27.48	16.7	33.42	333	354	A	V
		2483.68	64.03	-9.97	74	53.29	27.43	16.72	33.41	333	354	P	V
		2483.6	50.13	-3.87	54	39.39	27.43	16.72	33.41	333	354	A	V



**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		4844	37.23	-36.77	74	61.38	31	10.99	66.14	100	0	P	H
		7266	49.16	-24.84	74	64.99	36.4	13.46	65.69	100	0	P	H
													H
													H
		4844	38.23	-35.77	74	62.38	31	10.99	66.14	100	0	P	V
		7266	48.06	-25.94	74	63.89	36.4	13.46	65.69	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	38.55	-35.45	74	62.24	31.43	11	66.12	100	0	P	H
		7311	59.03	-14.97	74	74.96	36.4	13.39	65.72	100	243	P	H
		7311	46.52	-7.48	54	62.45	36.4	13.39	65.72	100	243	A	H
													H
		4874	38.56	-35.44	74	62.25	31.43	11	66.12	100	0	P	V
		7311	49.9	-24.1	74	65.83	36.4	13.39	65.72	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	38.34	-35.66	74	61.6	31.83	11.01	66.1	100	0	P	H
		7356	47.14	-26.86	74	63.16	36.4	13.32	65.74	100	0	P	H
													H
													H
		4904	39.28	-34.72	74	62.54	31.83	11.01	66.1	100	0	P	V
		7356	45.8	-28.2	74	61.82	36.4	13.32	65.74	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



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 10 2457MHz		4914	38.59	-35.41	74	62.01	31.65	11.02	66.09	100	0	P	H
		7371	47.18	-26.82	74	63.24	36.4	13.29	65.75	100	0	P	H
													H
													H
		4914	38.4	-35.6	74	61.82	31.65	11.02	66.09	100	0	P	V
		7371	44.94	-29.06	74	61	36.4	13.29	65.75	100	0	P	V
													V
802.11n HT40 CH 11 2462MHz		4924	38.93	-35.07	74	62.52	31.47	11.02	66.08	100	0	P	H
		7386	41.54	-32.46	74	57.63	36.4	13.27	65.76	100	0	P	H
													H
													H
		4924	37.86	-36.14	74	61.45	31.47	11.02	66.08	100	0	P	V
		7386	39.91	-34.09	74	56	36.4	13.27	65.76	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
2.4GHz WIFI 802.11b (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 802.11b LF		74.62	23.63	-16.37	40	42.39	12.49	1.28	32.53	-	-	P	H	
		147.37	28.53	-14.97	43.5	42.23	17.03	1.79	32.52	-	-	P	H	
		192.96	37.41	-6.09	43.5	53.25	14.65	2.05	32.54	100	0	P	H	
		493.66	30.03	-15.97	46	35.13	23.85	3.2	32.15	-	-	P	H	
		665.35	37.18	-8.82	46	39.69	26.36	3.7	32.57	-	-	P	H	
		949.56	30.97	-15.03	46	26.75	30.65	4.45	30.88	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			57.16	27.3	-12.7	40	46.81	11.92	1.11	32.54	-	-	P	V
			141.55	27.94	-15.56	43.5	41.61	17.1	1.75	32.52	-	-	P	V
			190.05	29.85	-13.65	43.5	45.72	14.63	2.04	32.54	-	-	P	V
			482.02	29.22	-16.78	46	34.48	23.69	3.16	32.11	-	-	P	V
			666.32	39.89	-6.11	46	42.38	26.37	3.7	32.56	100	0	P	V
			958.29	32.86	-13.14	46	28.16	31.06	4.46	30.82	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



<Sample 2>
<Dipole Antenna>

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

WIFI Ant.	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		2389.905	56.65	-17.35	74	45.97	27.52	16.62	33.46	100	63	P	H	
		2389.905	41.92	-12.08	54	31.24	27.52	16.62	33.46	100	63	A	H	
	*	2412	100.19	-	-	89.49	27.5	16.64	33.44	100	63	P	H	
	*	2412	96.82	-	-	86.12	27.5	16.64	33.44	100	63	A	H	
													H	
														H
			2387.385	57	-17	74	46.31	27.53	16.62	33.46	100	360	P	V
			2390	43.43	-10.57	54	32.75	27.52	16.62	33.46	100	360	A	V
	*		2412	108.29	-	-	97.59	27.5	16.64	33.44	100	360	P	V
	*		2412	104.56	-	-	93.86	27.5	16.64	33.44	100	360	A	V
														V
														V
802.11b CH 06 2437MHz		2355.28	53.48	-20.52	74	42.77	27.59	16.59	33.47	118	63	P	H	
		2317.84	41.69	-12.31	54	30.97	27.66	16.55	33.49	118	63	A	H	
	*	2437	101.74	-	-	91	27.5	16.67	33.43	118	63	P	H	
	*	2437	98.08	-	-	87.34	27.5	16.67	33.43	118	63	A	H	
			2487.6	53.09	-20.91	74	42.35	27.42	16.73	33.41	118	63	P	H
			2483.52	41.9	-12.1	54	31.16	27.43	16.72	33.41	118	63	A	H
			2362	53.78	-20.22	74	43.08	27.58	16.59	33.47	120	360	P	V
			2357.84	43.28	-10.72	54	32.58	27.58	16.59	33.47	120	360	A	V
	*		2437	108.69	-	-	97.95	27.5	16.67	33.43	120	360	P	V
	*		2437	104.99	-	-	94.25	27.5	16.67	33.43	120	360	A	V
			2484.56	54.45	-19.55	74	43.71	27.43	16.72	33.41	120	360	P	V
			2483.52	43.74	-10.26	54	33	27.43	16.72	33.41	120	360	A	V



802.11b CH 11 2462MHz	*	2462	101.02	-	-	90.26	27.48	16.7	33.42	111	105	P	H
	*	2462	97.43	-	-	86.67	27.48	16.7	33.42	111	105	A	H
		2483.6	54.04	-19.96	74	43.3	27.43	16.72	33.41	111	105	P	H
		2483.84	42.13	-11.87	54	31.39	27.43	16.72	33.41	111	105	A	H
													H
													H
	*	2462	107.1	-	-	96.34	27.48	16.7	33.42	132	360	P	V
	*	2462	103.73	-	-	92.97	27.48	16.7	33.42	132	360	A	V
		2485.24	60.55	-13.45	74	49.81	27.43	16.72	33.41	132	360	P	V
		2483.52	44.22	-9.78	54	33.48	27.43	16.72	33.41	132	360	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	101.1	-	-	90.35	27.47	16.7	33.42	113	107	P	H
	*	2467	97.52	-	-	86.77	27.47	16.7	33.42	113	107	A	H
		2484.52	57.23	-16.77	74	46.49	27.43	16.72	33.41	113	107	P	H
		2484.32	43.51	-10.49	54	32.77	27.43	16.72	33.41	113	107	A	H
													H
													H
	*	2467	107.01	-	-	96.26	27.47	16.7	33.42	103	321	P	V
	*	2467	103.58	-	-	92.83	27.47	16.7	33.42	103	321	A	V
		2484.2	63.44	-10.56	74	52.7	27.43	16.72	33.41	103	321	P	V
		2484.2	46.76	-7.24	54	36.02	27.43	16.72	33.41	103	321	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	101.66	-	-	90.9	27.46	16.71	33.41	142	122	P	H
	*	2472	97.93	-	-	87.17	27.46	16.71	33.41	142	122	A	H
		2484.08	62.75	-11.25	74	52.01	27.43	16.72	33.41	142	122	P	H
		2487.64	46.78	-7.22	54	36.04	27.42	16.73	33.41	142	122	A	H
													H
													H
	*	2472	107.7	-	-	96.94	27.46	16.71	33.41	127	322	P	V
	*	2472	104.08	-	-	93.32	27.46	16.71	33.41	127	322	A	V
		2484.84	68.54	-5.46	74	57.8	27.43	16.72	33.41	127	322	P	V
		2487.6	52.14	-1.86	54	41.4	27.42	16.73	33.41	127	322	A	V
													V
													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	38.49	-35.51	74	54.79	31	10.98	58.28	100	0	P	H	
													H	
													H	
													H	
			4824	38.41	-35.59	74	54.71	31	10.98	58.28	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	39.98	-34.02	74	55.82	31.43	11	58.27	100	0	P	H	
		7311	45.8	-28.2	74	54.52	36.4	13.39	58.51	100	0	P	H	
													H	
													H	
			4874	40.03	-33.97	74	55.87	31.43	11	58.27	100	0	P	V
			7311	55.18	-18.82	74	63.9	36.4	13.39	58.51	100	0	P	V
			7311	49.27	-4.73	54	57.99	36.4	13.39	58.51	100	0	A	V
802.11b CH 11 2462MHz		4924	39.45	-34.55	74	55.23	31.47	11.02	58.27	100	0	P	H	
		7386	44.41	-29.59	74	53.3	36.4	13.27	58.56	100	0	P	H	
													H	
													H	
			4924	39.84	-34.16	74	55.62	31.47	11.02	58.27	100	0	P	V
			7386	54.95	-19.05	74	63.84	36.4	13.27	58.56	100	0	P	V
			7386	50.08	-3.92	54	58.97	36.4	13.27	58.56	100	0	A	V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	39.72	-34.28	74	55.67	31.29	11.03	58.27	100	0	P	H
		7401	42.61	-31.39	74	51.53	36.4	13.25	58.57	100	0	P	H
													H
													H
		4934	39.65	-34.35	74	55.6	31.29	11.03	58.27	100	0	P	V
		7401	54.78	-19.22	74	63.7	36.4	13.25	58.57	100	0	P	V
		7401	48.98	-5.02	54	57.9	36.4	13.25	58.57	100	0	A	V
802.11b CH 13 2472MHz		4944	39.21	-34.79	74	55.33	31.11	11.04	58.27	100	0	P	H
		7416	44.27	-29.73	74	53.13	36.46	13.26	58.58	100	0	P	H
													H
													H
		4944	39.83	-34.17	74	55.95	31.11	11.04	58.27	100	0	P	V
		7416	52.81	-21.19	74	61.67	36.46	13.26	58.58	100	360	P	V
		7416	46.45	-7.55	54	55.31	36.46	13.26	58.58	100	360	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 802.11g (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)	
802.11g CH 01 2412MHz		2388.96	58.75	-15.25	74	48.07	27.52	16.62	33.46	102	64	P	H	
		2390	44.72	-9.28	54	34.04	27.52	16.62	33.46	102	64	A	H	
	*	2412	101.39	-	-	90.69	27.5	16.64	33.44	102	64	P	H	
	*	2412	93.76	-	-	83.06	27.5	16.64	33.44	102	64	A	H	
													H	
													H	
			2390	63.46	-10.54	74	52.78	27.52	16.62	33.46	110	9	P	V
			2390	48.23	-5.77	54	37.55	27.52	16.62	33.46	110	9	A	V
	*		2412	108.94	-	-	98.24	27.5	16.64	33.44	110	9	P	V
	*		2412	101.25	-	-	90.55	27.5	16.64	33.44	110	9	A	V
													V	
													V	
802.11g CH 06 2437MHz		2351.12	52.5	-21.5	74	41.79	27.6	16.58	33.47	117	63	P	H	
		2375.6	42.02	-11.98	54	31.32	27.55	16.61	33.46	117	63	A	H	
	*	2437	103.3	-	-	92.56	27.5	16.67	33.43	117	63	P	H	
	*	2437	95	-	-	84.26	27.5	16.67	33.43	117	63	A	H	
			2488.48	52.19	-21.81	74	41.45	27.42	16.73	33.41	117	63	P	H
			2496.56	42.36	-11.64	54	31.61	27.41	16.74	33.4	117	63	A	H
			2344.88	52.94	-21.06	74	42.24	27.61	16.57	33.48	110	58	P	V
			2390	43.48	-10.52	54	32.8	27.52	16.62	33.46	110	58	A	V
	*		2437	111.33	-	-	100.59	27.5	16.67	33.43	110	58	P	V
	*		2437	102.81	-	-	92.07	27.5	16.67	33.43	110	58	A	V
			2484.32	53.89	-20.11	74	43.15	27.43	16.72	33.41	110	58	P	V
			2483.92	43.96	-10.04	54	33.22	27.43	16.72	33.41	110	58	A	V



802.11g CH 11 2462MHz	*	2462	101.63	-	-	90.87	27.48	16.7	33.42	150	162	P	H
	*	2462	93.68	-	-	82.92	27.48	16.7	33.42	150	162	A	H
		2483.6	60.48	-13.52	74	49.74	27.43	16.72	33.41	150	162	P	H
		2483.55	46.37	-7.63	54	35.63	27.43	16.72	33.41	150	162	A	H
													H
													H
	*	2462	108.88	-	-	98.12	27.48	16.7	33.42	150	217	P	V
	*	2462	101.13	-	-	90.37	27.48	16.7	33.42	150	217	A	V
		2483.5	66.46	-7.54	74	55.72	27.43	16.72	33.41	150	217	P	V
		2483.5	51.92	-2.08	54	41.18	27.43	16.72	33.41	150	217	A	V
													V
													V
Remark	<ol style="list-style-type: none"> 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 												



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 12 2467MHz	*	2467	101.66	-	-	90.91	27.47	16.7	33.42	165	160	P	H
	*	2467	93.97	-	-	83.22	27.47	16.7	33.42	165	160	A	H
		2484.1	57.95	-16.05	74	47.21	27.43	16.72	33.41	165	160	P	H
		2483.65	47.35	-6.65	54	36.61	27.43	16.72	33.41	165	160	A	H
													H
													H
	*	2467	108.74	-	-	97.99	27.47	16.7	33.42	148	218	P	V
	*	2467	100.66	-	-	89.91	27.47	16.7	33.42	148	218	A	V
		2484.25	63.79	-10.21	74	53.05	27.43	16.72	33.41	148	218	P	V
		2483.5	52.19	-1.81	54	41.45	27.43	16.72	33.41	148	218	A	V
													V
													V
802.11g CH 13 2472MHz		2472	88.17	-	-	77.41	27.46	16.71	33.41	164	159	P	H
		2472	80.29	-	-	69.53	27.46	16.71	33.41	164	159	A	H
		2483.5	61.22	-12.78	74	50.48	27.43	16.72	33.41	164	159	P	H
		2483.5	47.95	-6.05	54	37.21	27.43	16.72	33.41	164	159	A	H
													H
													H
		2472	94.95	-	-	84.19	27.46	16.71	33.41	154	218	P	V
		2472	87.18	-	-	76.42	27.46	16.71	33.41	154	218	A	V
		2483.5	67.54	-6.46	74	56.8	27.43	16.72	33.41	154	218	P	V
		2483.5	52.59	-1.41	54	41.85	27.43	16.72	33.41	154	218	A	V
													V
													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 (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	39.04	-34.96	74	55.34	31	10.98	58.28	100	0	P	H	
													H	
													H	
													H	
			4824	38.87	-35.13	74	55.17	31	10.98	58.28	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	42.93	-31.07	74	61.18	31.15	11	60.4	100	0	P	H	
		7311	49.1	-24.9	74	58.34	36.48	13.39	59.11	100	0	P	H	
													H	
													H	
			4874	46.51	-27.49	74	64.76	31.15	11	60.4	100	0	P	V
			7311	60.47	-13.53	74	69.71	36.48	13.39	59.11	100	0	P	V
			7311	48.73	-5.27	54	57.97	36.48	13.39	59.11	100	0	A	V
802.11g CH 11 2462MHz		4924	48.49	-25.51	74	66.68	31.15	11.02	60.36	100	0	P	H	
		7386	49.61	-24.39	74	59.08	36.33	13.27	59.07	100	0	P	H	
													H	
													H	
			4924	42.3	-31.7	74	60.49	31.15	11.02	60.36	100	0	P	V
			7386	58.38	-15.62	74	67.85	36.33	13.27	59.07	100	1	P	V
			7386	45.6	-8.4	54	55.07	36.33	13.27	59.07	100	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	41.67	-32.33	74	59.82	31.17	11.03	60.35	100	0	P	H
		7401	49.07	-24.93	74	58.58	36.3	13.25	59.06	100	0	P	H
													H
													H
		4934	40.86	-33.14	74	59.01	31.17	11.03	60.35	100	0	P	V
		7401	55.06	-18.94	74	64.57	36.3	13.25	59.06	100	0	P	V
		7401	43.47	-10.53	54	52.98	36.3	13.25	59.06	100	0	A	V
													V
802.11g CH 13 2472MHz		4944	41.05	-32.95	74	59.16	31.19	11.04	60.34	100	0	P	H
		7416	43.36	-30.64	74	52.82	36.33	13.26	59.05	100	0	P	H
													H
													H
		4944	40.88	-33.12	74	58.99	31.19	11.04	60.34	100	0	P	V
		7416	42.88	-31.12	74	52.34	36.33	13.26	59.05	100	0	P	V
													V
													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		2387.385	57.81	-16.19	74	47.12	27.53	16.62	33.46	101	65	P	H	
		2388.96	44.52	-9.48	54	33.84	27.52	16.62	33.46	101	65	A	H	
	*	2412	101.58	-	-	90.88	27.5	16.64	33.44	101	65	P	H	
	*	2412	92.84	-	-	82.14	27.5	16.64	33.44	101	65	A	H	
													H	
														H
			2388.225	61.77	-12.23	74	51.09	27.52	16.62	33.46	108	0	P	V
			2390	47.2	-6.8	54	36.52	27.52	16.62	33.46	108	0	A	V
		*	2412	108.75	-	-	98.05	27.5	16.64	33.44	108	0	P	V
		*	2412	101.04	-	-	90.34	27.5	16.64	33.44	108	0	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2388.24	52.6	-21.4	74	41.92	27.52	16.62	33.46	102	122	P	H	
		2386.48	42.16	-11.84	54	31.47	27.53	16.62	33.46	102	122	A	H	
	*	2437	101.91	-	-	91.17	27.5	16.67	33.43	102	122	P	H	
	*	2437	94.3	-	-	83.56	27.5	16.67	33.43	102	122	A	H	
			2497.28	52.76	-21.24	74	42.01	27.41	16.74	33.4	102	122	P	H
			2484	42.37	-11.63	54	31.63	27.43	16.72	33.41	102	122	A	H
			2369.84	53.12	-20.88	74	42.43	27.56	16.6	33.47	104	124	P	V
			2389.68	43.83	-10.17	54	33.15	27.52	16.62	33.46	104	124	A	V
		*	2437	109.58	-	-	98.84	27.5	16.67	33.43	104	124	P	V
		*	2437	101.83	-	-	91.09	27.5	16.67	33.43	104	124	A	V
		2486.56	54.96	-19.04	74	44.21	27.43	16.73	33.41	104	124	P	V	
		2484	44.49	-9.51	54	33.75	27.43	16.72	33.41	104	124	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	101.15	-	-	90.39	27.48	16.7	33.42	103	108	P	H
	*	2462	93.39	-	-	82.63	27.48	16.7	33.42	103	108	A	H
		2486.05	56.83	-17.17	74	46.09	27.43	16.72	33.41	103	108	P	H
		2483.5	44.54	-9.46	54	33.8	27.43	16.72	33.41	103	108	A	H
													H
													H
	*	2462	108.83	-	-	98.07	27.48	16.7	33.42	148	180	P	V
	*	2462	100.34	-	-	89.58	27.48	16.7	33.42	148	180	A	V
		2484.95	64.66	-9.34	74	53.92	27.43	16.72	33.41	148	180	P	V
		2484.5	49.72	-4.28	54	38.98	27.43	16.72	33.41	148	180	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	101.35	-	-	90.6	27.47	16.7	33.42	112	108	P	H
	*	2467	92.97	-	-	82.22	27.47	16.7	33.42	112	108	A	H
		2486	59	-15	74	48.26	27.43	16.72	33.41	112	108	P	H
		2483.5	46.01	-7.99	54	35.27	27.43	16.72	33.41	112	108	A	H
													H
													H
	*	2467	107.72	-	-	96.97	27.47	16.7	33.42	120	59	P	V
	*	2467	99.92	-	-	89.17	27.47	16.7	33.42	120	59	A	V
		2483.8	66.79	-7.21	74	56.05	27.43	16.72	33.41	120	59	P	V
		2483.5	51.7	-2.3	54	40.96	27.43	16.72	33.41	120	59	A	V
												V	
												V	
802.11n HT20 CH 13 2472MHz	*	2472	85.62	-	-	74.86	27.46	16.71	33.41	133	64	P	H
	*	2472	77.84	-	-	67.08	27.46	16.71	33.41	133	64	A	H
		2483.65	60.57	-13.43	74	49.83	27.43	16.72	33.41	133	64	P	H
		2483.5	46.98	-7.02	54	36.24	27.43	16.72	33.41	133	64	A	H
													H
													H
	*	2472	91.77	-	-	81.01	27.46	16.71	33.41	100	61	P	V
	*	2472	84.12	-	-	73.36	27.46	16.71	33.41	100	61	A	V
		2483.55	66.52	-7.48	74	55.78	27.43	16.72	33.41	100	61	P	V
		2483.5	52.66	-1.34	54	41.92	27.43	16.72	33.41	100	61	A	V
												V	
												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		4804	42.13	-31.87	74	60.62	31	10.97	60.46	100	0	P	H	
													H	
													H	
													H	
			4804	46.22	-27.78	74	64.71	31	10.97	60.46	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	41.3	-32.7	74	59.27	31.43	11	60.4	100	0	P	H	
		7311	57.65	-16.35	74	66.97	36.4	13.39	59.11	105	293	P	H	
		7311	45.32	-8.68	54	54.64	36.4	13.39	59.11	105	293	A	H	
													H	
			4874	41.73	-32.27	74	59.7	31.43	11	60.4	100	0	P	V
			7311	61.44	-12.56	74	70.76	36.4	13.39	59.11	232	357	P	V
			7311	50.67	-3.33	54	59.99	36.4	13.39	59.11	232	357	A	V
													V	
802.11n HT20 CH 11 2462MHz		4924	42.55	-31.45	74	60.42	31.47	11.02	60.36	100	0	P	H	
		7386	55.2	-18.8	74	64.6	36.4	13.27	59.07	100	294	P	H	
		7386	43.62	-10.38	54	53.02	36.4	13.27	59.07	100	294	A	H	
													H	
			4924	41.91	-32.09	74	59.78	31.47	11.02	60.36	100	0	P	V
			7386	58.48	-15.52	74	67.88	36.4	13.27	59.07	256	358	P	V
			7386	47.21	-6.79	54	56.61	36.4	13.27	59.07	256	358	A	V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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 12 2467MHz		4934	41.38	-32.62	74	59.41	31.29	11.03	60.35	100	0	P	H	
		7401	49.25	-24.75	74	58.66	36.4	13.25	59.06	100	0	P	H	
													H	
													H	
			4934	41.83	-32.17	74	59.86	31.29	11.03	60.35	100	0	P	V
			7401	56.7	-17.3	74	66.11	36.4	13.25	59.06	277	359	P	V
			7401	46.45	-7.55	54	55.86	36.4	13.25	59.06	277	359	A	V
802.11n HT20 CH 13 2472MHz													V	
			4944	42.52	-31.48	74	60.71	31.11	11.04	60.34	100	0	P	H
			7416	43.76	-30.24	74	53.09	36.46	13.26	59.05	100	0	P	H
													H	
													H	
			4944	41.52	-32.48	74	59.71	31.11	11.04	60.34	100	0	P	V
			7416	45.55	-28.45	74	54.88	36.46	13.26	59.05	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 802.11n 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		2387.12	57.63	-16.37	74	46.94	27.53	16.62	33.46	143	125	P	H
		2388.88	45.69	-8.31	54	35.01	27.52	16.62	33.46	143	125	A	H
	*	2422	98.72	-	-	88.01	27.5	16.65	33.44	143	125	P	H
	*	2422	91.4	-	-	80.69	27.5	16.65	33.44	143	125	A	H
		2499.04	53.22	-20.78	74	42.48	27.4	16.74	33.4	143	125	P	H
		2485.36	43.6	-10.4	54	32.86	27.43	16.72	33.41	143	125	A	H
		2390	63.34	-10.66	74	52.66	27.52	16.62	33.46	108	59	P	V
		2389.52	51.76	-2.24	54	41.08	27.52	16.62	33.46	108	59	A	V
	*	2422	106.23	-	-	95.52	27.5	16.65	33.44	108	59	P	V
	*	2422	98.55	-	-	87.84	27.5	16.65	33.44	108	59	A	V
		2484.56	55.99	-18.01	74	45.25	27.43	16.72	33.41	108	59	P	V
		2484.4	46.13	-7.87	54	35.39	27.43	16.72	33.41	108	59	A	V
802.11n HT40 CH 06 2437MHz		2388.4	53.18	-20.82	74	42.5	27.52	16.62	33.46	107	122	P	H
		2388.08	43.29	-10.71	54	32.61	27.52	16.62	33.46	107	122	A	H
	*	2437	98.75	-	-	88.01	27.5	16.67	33.43	107	122	P	H
	*	2437	91.38	-	-	80.64	27.5	16.67	33.43	107	122	A	H
		2484.24	55.95	-18.05	74	45.21	27.43	16.72	33.41	107	122	P	H
		2483.92	44.97	-9.03	54	34.23	27.43	16.72	33.41	107	122	A	H
		2389.36	58.17	-15.83	74	47.49	27.52	16.62	33.46	107	58	P	V
		2390	47.05	-6.95	54	36.37	27.52	16.62	33.46	107	58	A	V
	*	2437	106.45	-	-	95.71	27.5	16.67	33.43	107	58	P	V
	*	2437	99.02	-	-	88.28	27.5	16.67	33.43	107	58	A	V
		2483.52	62.09	-11.91	74	51.35	27.43	16.72	33.41	107	58	P	V
		2483.6	49.45	-4.55	54	38.71	27.43	16.72	33.41	107	58	A	V



802.11n HT40 CH 09 2452MHz		2355.44	52.32	-21.68	74	41.61	27.59	16.59	33.47	120	63	P	H
		2356.4	43.37	-10.63	54	32.66	27.59	16.59	33.47	120	63	A	H
	*	2452	98.54	-	-	87.77	27.5	16.69	33.42	120	63	P	H
	*	2452	90.69	-	-	79.92	27.5	16.69	33.42	120	63	A	H
		2485.2	59.7	-14.3	74	48.96	27.43	16.72	33.41	120	63	P	H
		2484.64	47.98	-6.02	54	37.24	27.43	16.72	33.41	120	63	A	H
		2388.88	53.98	-20.02	74	43.3	27.52	16.62	33.46	100	126	P	V
		2389.52	44.45	-9.55	54	33.77	27.52	16.62	33.46	100	126	A	V
	*	2452	105.82	-	-	95.05	27.5	16.69	33.42	100	126	P	V
	*	2452	97.39	-	-	86.62	27.5	16.69	33.42	100	126	A	V
		2484.48	64.65	-9.35	74	53.91	27.43	16.72	33.41	100	126	P	V
		2486.24	52.3	-1.7	54	41.56	27.43	16.72	33.41	100	126	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 10 2457MHz		2338.64	52.35	-21.65	74	41.64	27.62	16.57	33.48	111	107	P	H
		2349.2	43.04	-10.96	54	32.34	27.6	16.58	33.48	111	107	A	H
	*	2457	98.05	-	-	87.29	27.49	16.69	33.42	111	107	P	H
	*	2457	90.49	-	-	79.73	27.49	16.69	33.42	111	107	A	H
		2494.96	59.32	-14.68	74	48.58	27.41	16.73	33.4	111	107	P	H
		2484.56	47.6	-6.4	54	36.86	27.43	16.72	33.41	111	107	A	H
		2380.24	52.83	-21.17	74	42.14	27.54	16.61	33.46	174	7	P	V
		2388.24	43.69	-10.31	54	33.01	27.52	16.62	33.46	174	7	A	V
	*	2457	104.99	-	-	94.23	27.49	16.69	33.42	174	7	P	V
	*	2457	97.83	-	-	87.07	27.49	16.69	33.42	174	7	A	V
		2484.16	64.4	-9.6	74	53.66	27.43	16.72	33.41	174	7	P	V
		2484.48	52.01	-1.99	54	41.27	27.43	16.72	33.41	174	7	A	V
802.11n HT40 CH 11 2462MHz		2338.8	53.89	-20.11	74	43.18	27.62	16.57	33.48	100	105	P	H
		2372.88	43.53	-10.47	54	32.84	27.55	16.6	33.46	100	105	A	H
	*	2462	94.57	-	-	83.81	27.48	16.7	33.42	100	105	P	H
	*	2462	86.89	-	-	76.13	27.48	16.7	33.42	100	105	A	H
		2483.68	61.87	-12.13	74	51.13	27.43	16.72	33.41	100	105	P	H
		2483.88	45.94	-8.06	54	35.2	27.43	16.72	33.41	100	105	A	H
		2371.76	53.49	-20.51	74	42.79	27.56	16.6	33.46	100	180	P	V
		2389.52	43.39	-10.61	54	32.71	27.52	16.62	33.46	100	180	A	V
	*	2462	102.05	-	-	91.29	27.48	16.7	33.42	100	180	P	V
	*	2462	93.97	-	-	83.21	27.48	16.7	33.42	100	180	A	V
		2483.52	70.02	-3.98	74	59.28	27.43	16.72	33.41	100	180	P	V
		2483.64	52.07	-1.93	54	41.33	27.43	16.72	33.41	100	180	A	V



**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		4844	40.97	-33.03	74	59.4	31	10.99	60.42	100	0	P	H
		7266	47.01	-26.99	74	56.29	36.4	13.46	59.14	100	0	P	H
													H
													H
2422MHz		4844	41.27	-32.73	74	59.7	31	10.99	60.42	100	0	P	V
		7266	57.23	-16.77	74	66.51	36.4	13.46	59.14	244	167	P	V
		7266	46.4	-7.6	54	55.68	36.4	13.46	59.14	244	167	A	V
													V
802.11n HT40 CH 06		4874	42.57	-31.43	74	60.54	31.43	11	60.4	100	0	P	H
		7311	45.5	-28.5	74	54.82	36.4	13.39	59.11	100	0	P	H
													H
													H
2437MHz		4874	42.25	-31.75	74	60.22	31.43	11	60.4	100	0	P	V
		7311	56.7	-17.3	74	66.02	36.4	13.39	59.11	259	358	P	V
		7311	47.15	-6.85	54	56.47	36.4	13.39	59.11	259	358	A	V
													V
802.11n HT40 CH 09		4904	42.83	-31.17	74	60.37	31.83	11.01	60.38	100	0	P	H
		7356	47.84	-26.16	74	57.21	36.4	13.32	59.09	100	0	P	H
													H
													H
2452MHz		4904	42.44	-31.56	74	59.98	31.83	11.01	60.38	100	0	P	V
		7356	54.53	-19.47	74	63.9	36.4	13.32	59.09	254	358	P	V
		7356	44.94	-9.06	54	54.31	36.4	13.32	59.09	254	358	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 10 2457MHz		4914	41.85	-32.15	74	59.55	31.65	11.02	60.37	100	0	P	H
		7371	47.82	-26.18	74	57.21	36.4	13.29	59.08	100	0	P	H
													H
													H
		4914	42.83	-31.17	74	60.53	31.65	11.02	60.37	100	0	P	V
		7371	54.51	-19.49	74	63.9	36.4	13.29	59.08	253	358	P	V
		7371	43.96	-10.04	54	53.35	36.4	13.29	59.08	253	358	A	V
													V
802.11n HT40 CH 11 2462MHz		4924	39.96	-34.04	74	55.74	31.47	11.02	58.27	100	0	P	H
		7386	41.02	-32.98	74	49.91	36.4	13.27	58.56	100	0	P	H
													H
													H
		4924	39.21	-34.79	74	54.99	31.47	11.02	58.27	100	0	P	V
		7386	41.93	-32.07	74	50.82	36.4	13.27	58.56	100	0	P	V
													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		71.71	23	-17	40	42.09	12.2	1.24	32.53	-	-	P	H	
		160.95	36.36	-7.14	43.5	50.68	16.31	1.89	32.52	-	-	P	H	
		242.43	27.82	-18.18	46	40.57	17.3	2.32	32.37	-	-	P	H	
		472.32	31.11	-14.89	46	36.55	23.5	3.13	32.07	-	-	P	H	
		664.38	39.88	-6.12	46	42.39	26.36	3.7	32.57	100	0	P	H	
		950.53	32.19	-13.81	46	27.91	30.7	4.45	30.87	-	-	P	H	
														H
														H
														H
														H
														H
														H
			58.13	25.94	-14.06	40	45.65	11.71	1.12	32.54	-	-	P	V
			143.49	25.83	-17.67	43.5	39.45	17.13	1.77	32.52	-	-	P	V
			161.92	28.6	-14.9	43.5	42.98	16.24	1.9	32.52	-	-	P	V
			490.75	29.43	-16.57	46	34.55	23.83	3.19	32.14	-	-	P	V
			665.35	38.9	-7.1	46	41.41	26.36	3.7	32.57	100	0	P	V
			939.86	30.67	-15.33	46	27.2	29.98	4.43	30.94	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



<PIFA Antenna>

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		2385.915	61.46	-12.54	74	50.77	27.53	16.62	33.46	118	166	P	H	
		2389.905	44.73	-9.27	54	34.05	27.52	16.62	33.46	118	166	A	H	
	*	2412	108.59	-	-	97.89	27.5	16.64	33.44	118	166	P	H	
	*	2412	105.04	-	-	94.34	27.5	16.64	33.44	118	166	A	H	
													H	
														H
			2386.965	56.27	-17.73	74	45.58	27.53	16.62	33.46	314	99	P	V
			2389.905	42.17	-11.83	54	31.49	27.52	16.62	33.46	314	99	A	V
	*		2412	104.38	-	-	93.68	27.5	16.64	33.44	314	99	P	V
	*		2412	100.7	-	-	90	27.5	16.64	33.44	314	99	A	V
														V
														V
802.11b CH 06 2437MHz		2376.24	53.63	-20.37	74	42.93	27.55	16.61	33.46	106	167	P	H	
		2317.84	43.12	-10.88	54	32.4	27.66	16.55	33.49	106	167	A	H	
	*	2437	109.54	-	-	98.8	27.5	16.67	33.43	106	167	P	H	
	*	2437	105.99	-	-	95.25	27.5	16.67	33.43	106	167	A	H	
			2499.84	55.19	-18.81	74	44.45	27.4	16.74	33.4	106	167	P	H
			2483.84	44.03	-9.97	54	33.29	27.43	16.72	33.41	106	167	A	H
			2360.4	52.82	-21.18	74	42.12	27.58	16.59	33.47	298	99	P	V
			2318.8	41.77	-12.23	54	31.05	27.66	16.55	33.49	298	99	A	V
	*		2437	105.04	-	-	94.3	27.5	16.67	33.43	298	99	P	V
	*		2437	101.31	-	-	90.57	27.5	16.67	33.43	298	99	A	V
			2484.64	53.82	-20.18	74	43.08	27.43	16.72	33.41	298	99	P	V
			2484.24	42.93	-11.07	54	32.19	27.43	16.72	33.41	298	99	A	V



802.11b CH 11 2462MHz	*	2462	108.87	-	-	98.11	27.48	16.7	33.42	111	165	P	H
	*	2462	105.3	-	-	94.54	27.48	16.7	33.42	111	165	A	H
		2484.84	62.76	-11.24	74	52.02	27.43	16.72	33.41	111	165	P	H
		2483.56	45.96	-8.04	54	35.22	27.43	16.72	33.41	111	165	A	H
													H
													H
	*	2462	104.41	-	-	93.65	27.48	16.7	33.42	259	104	P	V
	*	2462	100.8	-	-	90.04	27.48	16.7	33.42	259	104	A	V
		2488.24	57.26	-16.74	74	46.52	27.42	16.73	33.41	259	104	P	V
		2483.52	43.28	-10.72	54	32.54	27.43	16.72	33.41	259	104	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	108.66	-	-	97.91	27.47	16.7	33.42	111	166	P	H
	*	2467	105.15	-	-	94.4	27.47	16.7	33.42	111	166	A	H
		2484.32	66.99	-7.01	74	56.25	27.43	16.72	33.41	111	166	P	H
		2484.24	49.23	-4.77	54	38.49	27.43	16.72	33.41	111	166	A	H
													H
													H
	*	2467	104.32	-	-	93.57	27.47	16.7	33.42	306	98	P	V
	*	2467	100.92	-	-	90.17	27.47	16.7	33.42	306	98	A	V
		2484.04	62.28	-11.72	74	51.54	27.43	16.72	33.41	306	98	P	V
		2484.28	46.08	-7.92	54	35.34	27.43	16.72	33.41	306	98	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	107.42	-	-	96.66	27.46	16.71	33.41	109	165	P	H
	*	2472	103.72	-	-	92.96	27.46	16.71	33.41	109	165	A	H
		2483.96	70.3	-3.7	74	59.56	27.43	16.72	33.41	109	165	P	H
		2484	51.99	-2.01	54	41.25	27.43	16.72	33.41	109	165	A	H
													H
													H
	*	2472	103.36	-	-	92.6	27.46	16.71	33.41	297	96	P	V
	*	2472	99.9	-	-	89.14	27.46	16.71	33.41	297	96	A	V
		2483.64	67.18	-6.82	74	56.44	27.43	16.72	33.41	297	96	P	V
		2486.88	48.99	-5.01	54	38.24	27.43	16.73	33.41	297	96	A	V
													V
													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	38.06	-35.94	74	62.24	31	10.98	66.16	100	0	P	H
													H
													H
													H
		4824	36.91	-37.09	74	61.09	31	10.98	66.16	100	0	P	V
													V
													V
802.11b CH 06 2437MHz		4874	36.4	-37.6	74	60.09	31.43	11	66.12	100	0	P	H
		7311	53.35	-20.65	74	69.28	36.4	13.39	65.72	100	242	P	H
		7311	48.94	-5.06	54	64.87	36.4	13.39	65.72	100	242	A	H
													H
		4874	35.5	-38.5	74	59.19	31.43	11	66.12	100	0	P	V
		7311	49.26	-24.74	74	65.19	36.4	13.39	65.72	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	36.47	-37.53	74	60.06	31.47	11.02	66.08	100	0	P	H
		7386	47.95	-26.05	74	64.04	36.4	13.27	65.76	100	0	P	H
													H
													H
		4924	36.89	-37.11	74	60.48	31.47	11.02	66.08	100	0	P	V
		7386	45.94	-28.06	74	62.03	36.4	13.27	65.76	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	37.64	-36.36	74	61.4	31.29	11.03	66.08	100	0	P	H
		7401	48.89	-25.11	74	65.01	36.4	13.25	65.77	100	0	P	H
													H
													H
		4934	37.73	-36.27	74	61.49	31.29	11.03	66.08	100	0	P	V
		7401	46.5	-27.5	74	62.62	36.4	13.25	65.77	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	38.38	-35.62	74	62.3	31.11	11.04	66.07	100	0	P	H
		7416	46.78	-27.22	74	62.84	36.46	13.26	65.78	100	0	P	H
													H
													H
		4944	37.25	-36.75	74	61.17	31.11	11.04	66.07	100	0	P	V
		7416	44.41	-29.59	74	60.47	36.46	13.26	65.78	100	0	P	V
													V
													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)**

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		2389.065	68.62	-5.38	74	57.94	27.52	16.62	33.46	166	160	P	H	
		2390	51.52	-2.48	54	40.84	27.52	16.62	33.46	166	160	A	H	
	*	2412	109.59	-	-	98.89	27.5	16.64	33.44	166	160	P	H	
	*	2412	101.92	-	-	91.22	27.5	16.64	33.44	166	160	A	H	
													H	
														H
			2389.065	65.11	-8.89	74	54.43	27.52	16.62	33.46	303	100	P	V
			2390	48.03	-5.97	54	37.35	27.52	16.62	33.46	303	100	A	V
	*		2412	105.85	-	-	95.15	27.5	16.64	33.44	303	100	P	V
	*		2412	98.13	-	-	87.43	27.5	16.64	33.44	303	100	A	V
														V
														V
802.11g CH 06 2437MHz		2389.04	55.97	-18.03	74	45.29	27.52	16.62	33.46	202	161	P	H	
		2389.52	43.92	-10.08	54	33.24	27.52	16.62	33.46	202	161	A	H	
	*	2437	110.95	-	-	100.21	27.5	16.67	33.43	202	161	P	H	
	*	2437	103.18	-	-	92.44	27.5	16.67	33.43	202	161	A	H	
			2484.24	58.86	-15.14	74	48.12	27.43	16.72	33.41	202	161	P	H
			2484.32	44.64	-9.36	54	33.9	27.43	16.72	33.41	202	161	A	H
			2383.28	52.7	-21.3	74	42.02	27.53	16.61	33.46	297	101	P	V
			2388.72	42.71	-11.29	54	32.03	27.52	16.62	33.46	297	101	A	V
	*		2437	106.09	-	-	95.35	27.5	16.67	33.43	297	101	P	V
	*		2437	98.45	-	-	87.71	27.5	16.67	33.43	297	101	A	V
			2484.24	56.59	-17.41	74	45.85	27.43	16.72	33.41	297	101	P	V
			2484.16	43.85	-10.15	54	33.11	27.43	16.72	33.41	297	101	A	V



802.11g CH 11 2462MHz	*	2462	109.17	-	-	98.41	27.48	16.7	33.42	200	158	P	H
	*	2462	101.46	-	-	90.7	27.48	16.7	33.42	200	158	A	H
		2483.5	65.55	-8.45	74	54.81	27.43	16.72	33.41	200	158	P	H
		2483.5	52.23	-1.77	54	41.49	27.43	16.72	33.41	200	158	A	H
													H
													H
	*	2462	105.06	-	-	94.3	27.48	16.7	33.42	300	104	P	V
	*	2462	97.35	-	-	86.59	27.48	16.7	33.42	300	104	A	V
		2483.55	63.41	-10.59	74	52.67	27.43	16.72	33.41	300	104	P	V
		2483.55	49.98	-4.02	54	39.24	27.43	16.72	33.41	300	104	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	107.47	-	-	96.72	27.47	16.7	33.42	200	160	P	H	
	*	2467	99.65	-	-	88.9	27.47	16.7	33.42	200	160	A	H	
		2484	66.45	-7.55	74	55.71	27.43	16.72	33.41	200	160	P	H	
		2483.55	51.01	-2.99	54	40.27	27.43	16.72	33.41	200	160	A	H	
													H	
														H
	*	2467	103.92	-	-	93.17	27.47	16.7	33.42	295	102	P	V	
	*	2467	96.24	-	-	85.49	27.47	16.7	33.42	295	102	A	V	
		2483.95	63.09	-10.91	74	52.35	27.43	16.72	33.41	295	102	P	V	
		2483.5	48.98	-5.02	54	38.24	27.43	16.72	33.41	295	102	A	V	
														V
														V
802.11g CH 13 2472MHz	*	2472	94.94	-	-	84.18	27.46	16.71	33.41	204	161	P	H	
	*	2472	87.21	-	-	76.45	27.46	16.71	33.41	204	161	A	H	
		2483.5	67.25	-6.75	74	56.51	27.43	16.72	33.41	204	161	P	H	
		2483.5	52.55	-1.45	54	41.81	27.43	16.72	33.41	204	161	A	H	
													H	
														H
	*	2472	91.77	-	-	81.01	27.46	16.71	33.41	295	105	P	V	
	*	2472	83.98	-	-	73.22	27.46	16.71	33.41	295	105	A	V	
		2483.55	66.17	-7.83	74	55.43	27.43	16.72	33.41	295	105	P	V	
		2483.5	51.25	-2.75	54	40.51	27.43	16.72	33.41	295	105	A	V	
														V
														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 (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	35.96	-38.04	74	60.14	31	10.98	66.16	100	0	P	H	
													H	
													H	
													H	
			4824	36.32	-37.68	74	60.5	31	10.98	66.16	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	37.46	-36.54	74	61.15	31.43	11	66.12	100	0	P	H	
		7311	61.06	-12.94	74	76.99	36.4	13.39	65.72	100	243	P	H	
		7311	49.14	-4.86	54	65.07	36.4	13.39	65.72	100	243	A	H	
													H	
			4874	38.26	-35.74	74	61.95	31.43	11	66.12	100	0	P	V
			7311	58.23	-15.77	74	74.16	36.4	13.39	65.72	100	54	P	V
			7311	46.33	-7.67	54	62.26	36.4	13.39	65.72	100	54	A	V
802.11g CH 11 2462MHz		4924	37.99	-36.01	74	61.58	31.47	11.02	66.08	100	0	P	H	
		7386	59.1	-14.9	74	75.19	36.4	13.27	65.76	106	121	P	H	
		7386	46.3	-7.7	54	62.39	36.4	13.27	65.76	106	121	A	H	
													H	
			4924	37.93	-36.07	74	61.52	31.47	11.02	66.08	100	0	P	V
			7386	55.66	-18.34	74	71.75	36.4	13.27	65.76	103	51	P	V
			7386	43.54	-10.46	54	59.63	36.4	13.27	65.76	103	51	A	V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													