



FCC RADIO TEST REPORT

FCC ID : 2AMVI-G2
Equipment : Gate Smart Lock 2
Brand Name : Gate
Model Name : FRDO
Marketing Name : GATE SMART LOCK 2
Applicant : Gate Labs, Inc.
859 Harrison ST, STE B, San Francisco CA 94107
Manufacturer : Gate Labs, Inc.
859 Harrison ST, STE B, San Francisco CA 94107
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 21, 2019 and testing was started from Sep. 11, 2019 and completed on Sep. 11, 2019. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of government.

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

Approved by: Ken Chen

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

Report No.	Version	Description	Issued Date
FR190917001	01	Initial issue of report	Nov. 08, 2019



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 2.32 dB at 2483.520 MHz
-	15.207	AC Conducted Emission	Not Required	-
3.6	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Remark: Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:

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

Comments and Explanations:

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



1 General Description

1.1 Product Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n.

Product Specification subjective to this standard	
Antenna Type	Slot Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International (USA) Inc.	
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300	
Test Site No.	Sporton Site No.	
	TH01-CA	03CH01-CA

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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

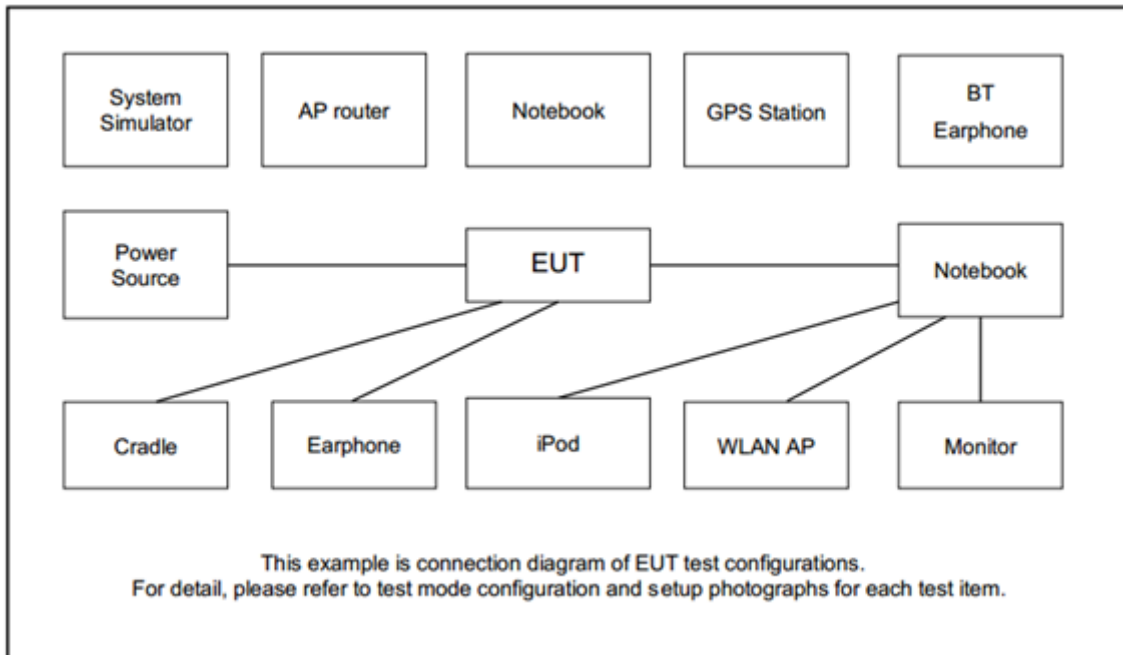
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

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

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

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, an engineering program was provided 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.

2.5 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

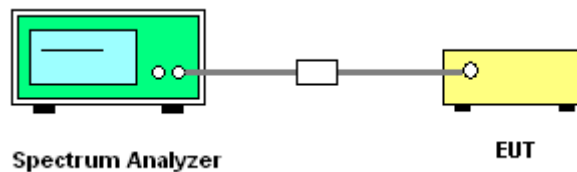
3.1.2 Measuring Instruments

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

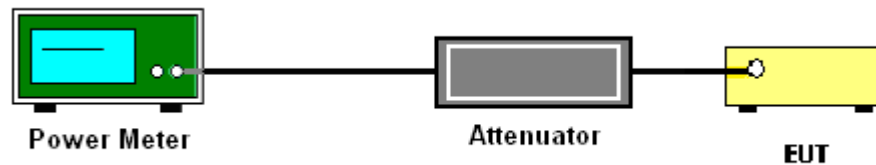
3.2.2 Measuring Instruments

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. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.3 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.

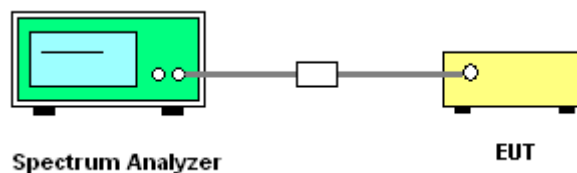
3.3.2 Measuring Instruments

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.

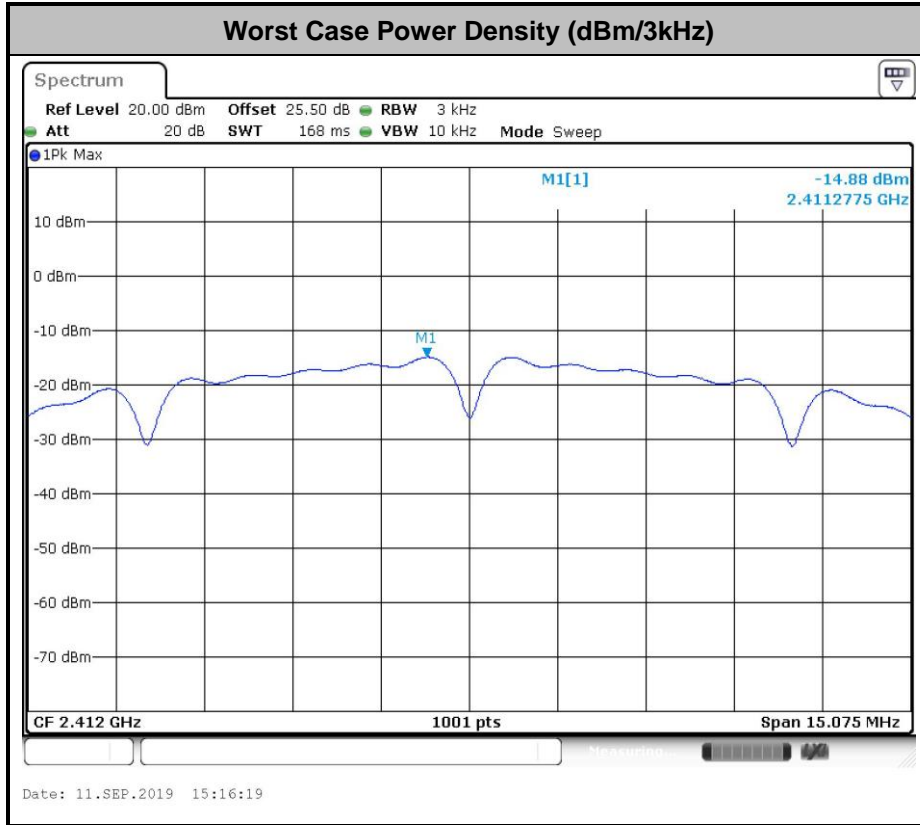
3.3.4 Test Setup





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.

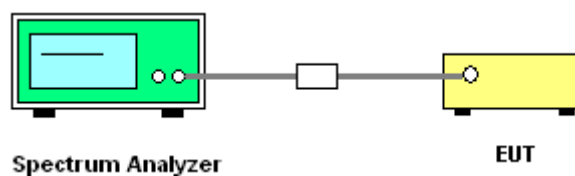
3.4.2 Measuring Instruments

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



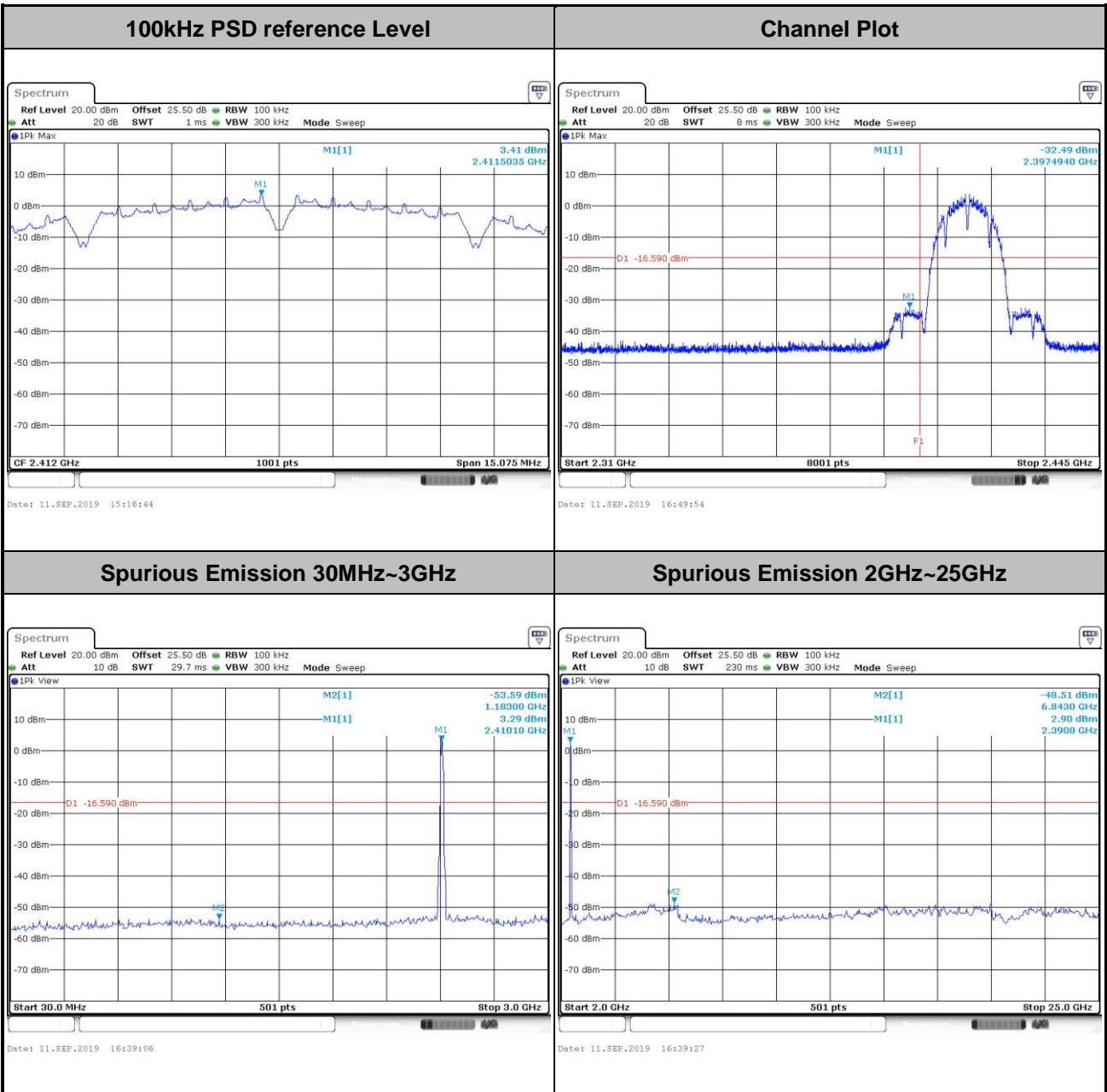


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

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

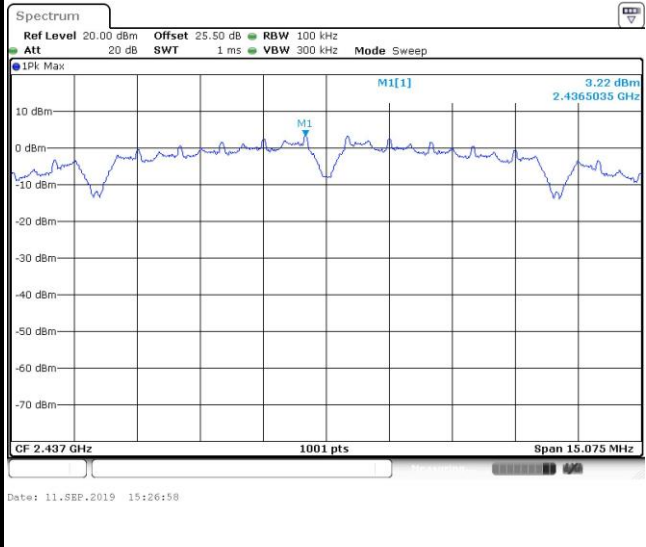
Test Mode :	802.11b	Test Channel :	01
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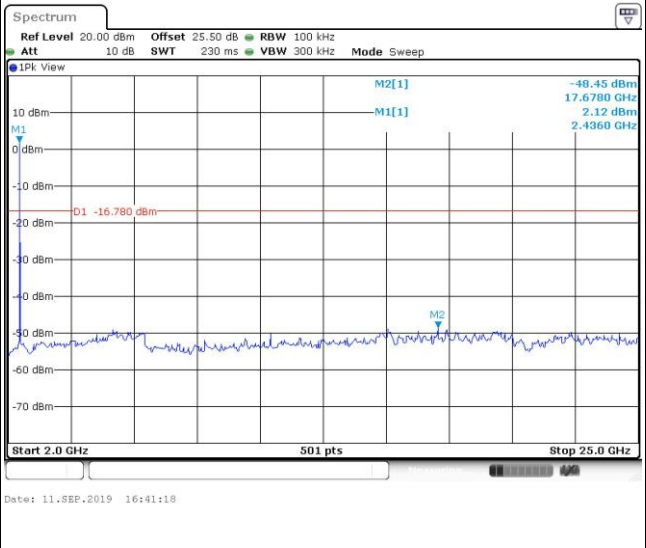
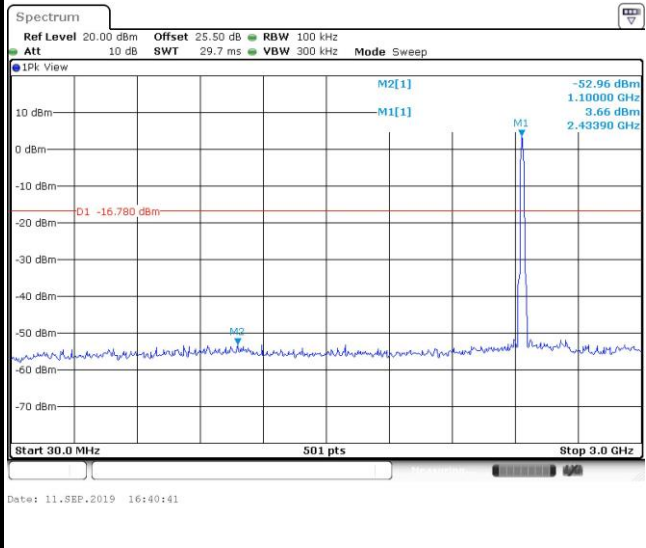


Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level	Channel Plot
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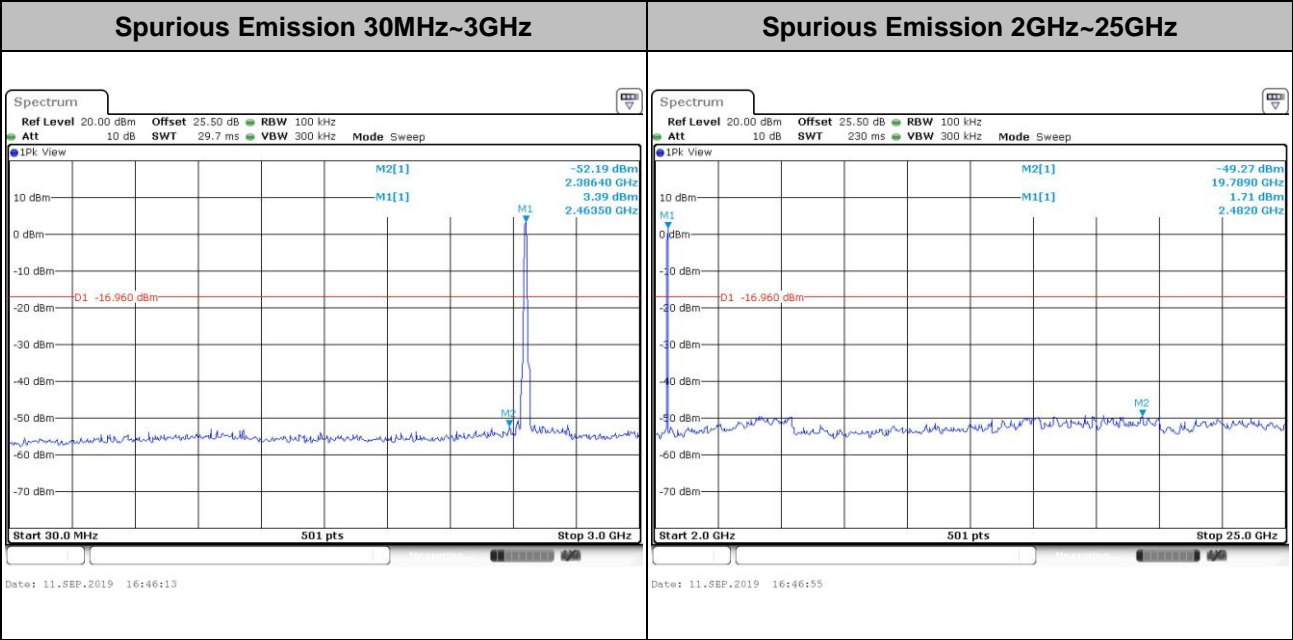
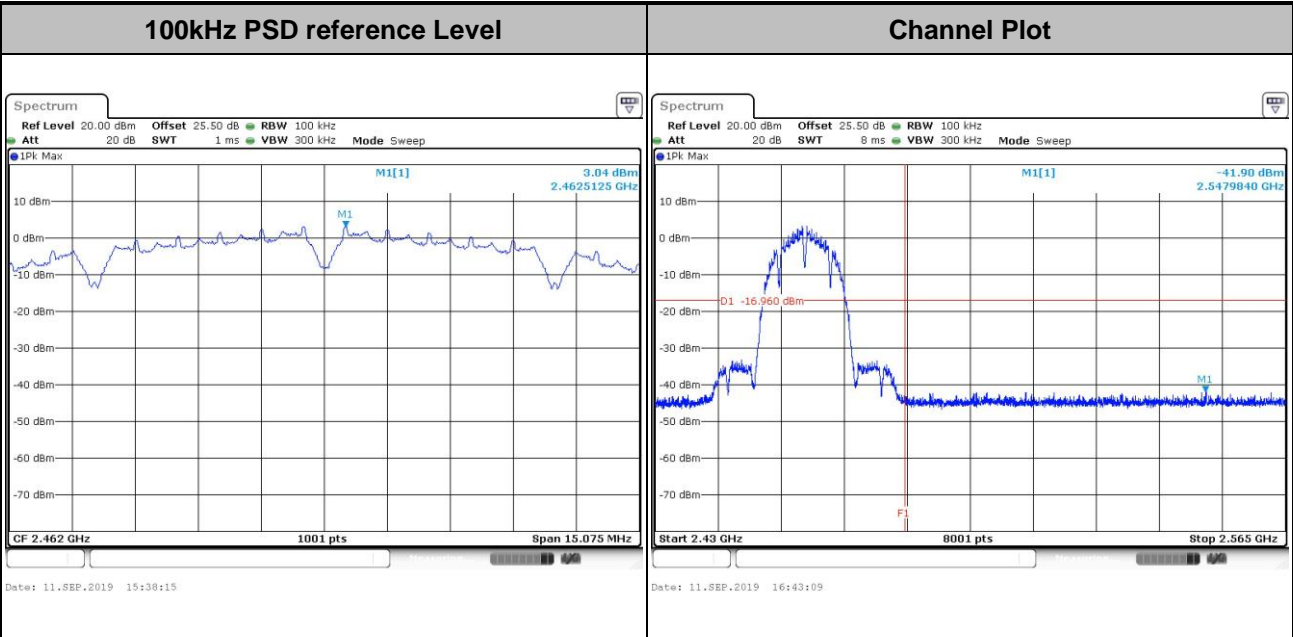


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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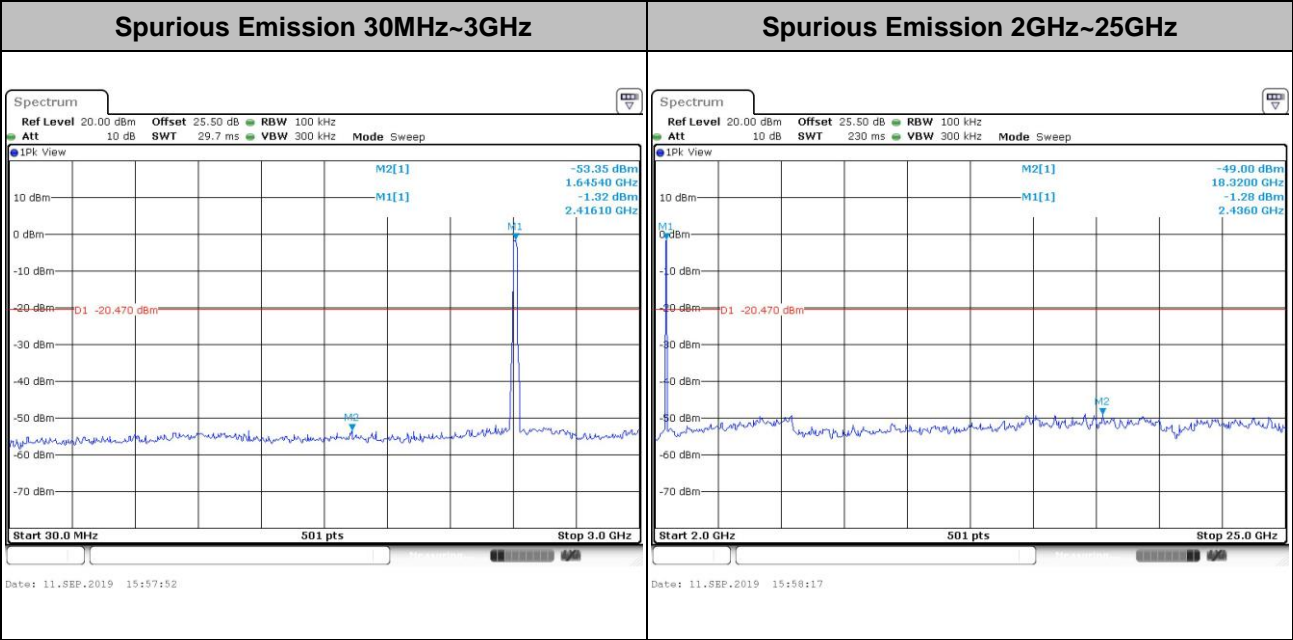
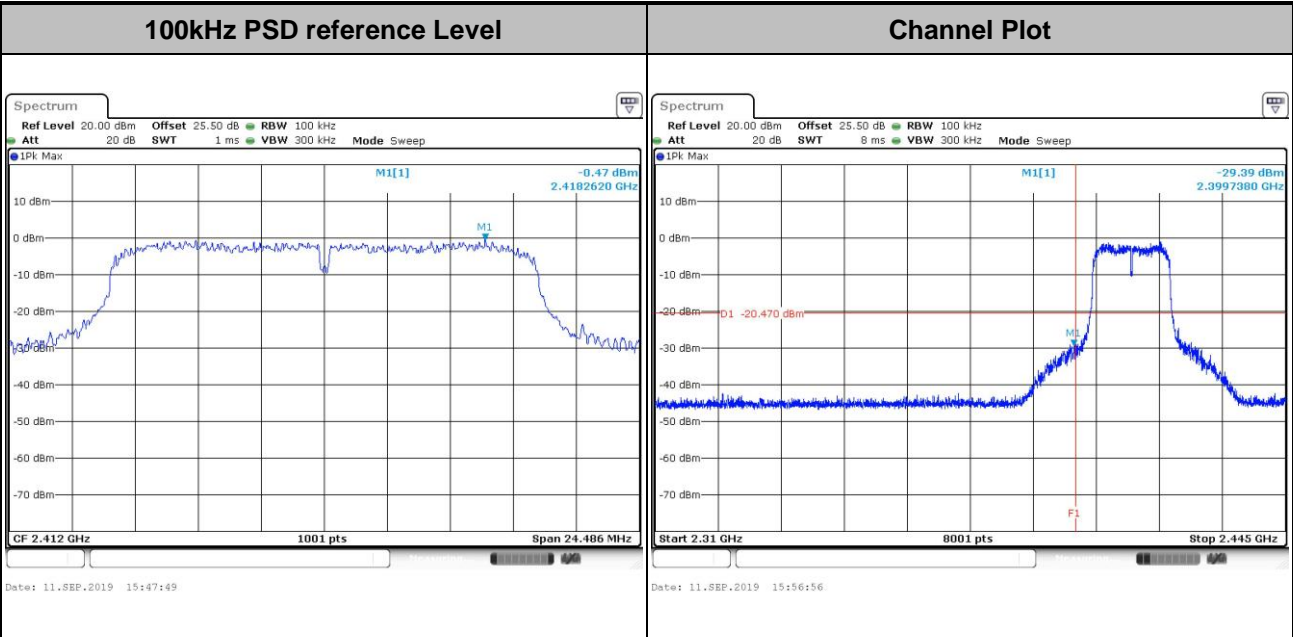


Test Mode :	802.11b	Test Channel :	11
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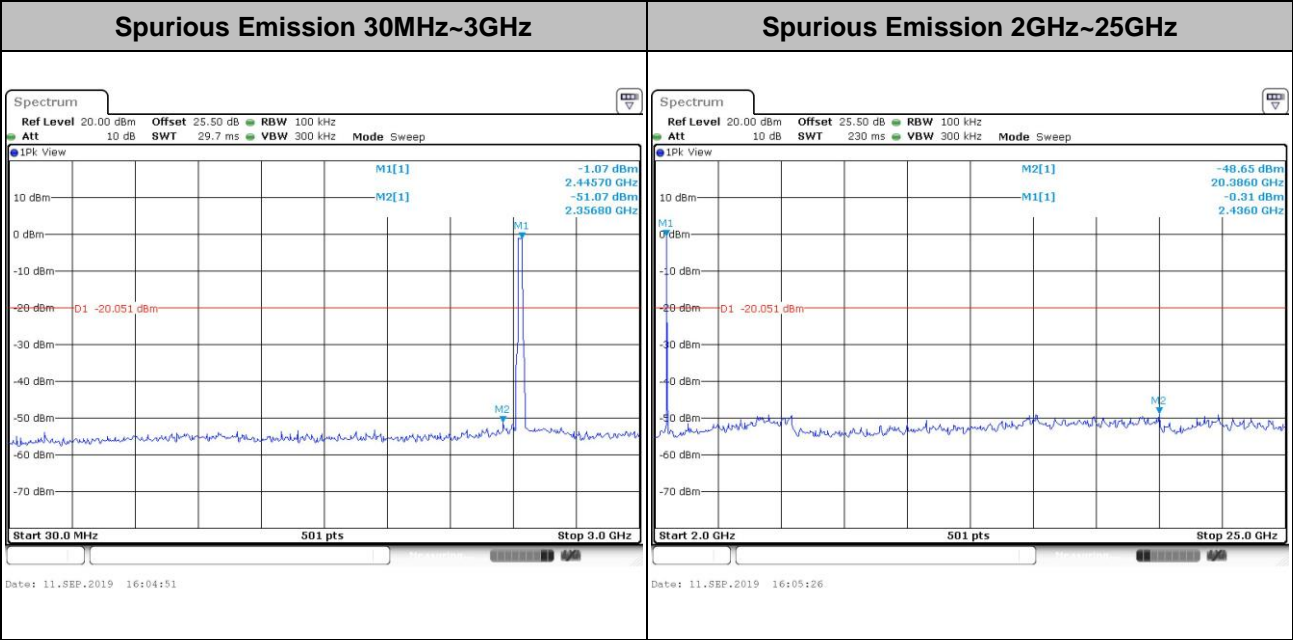
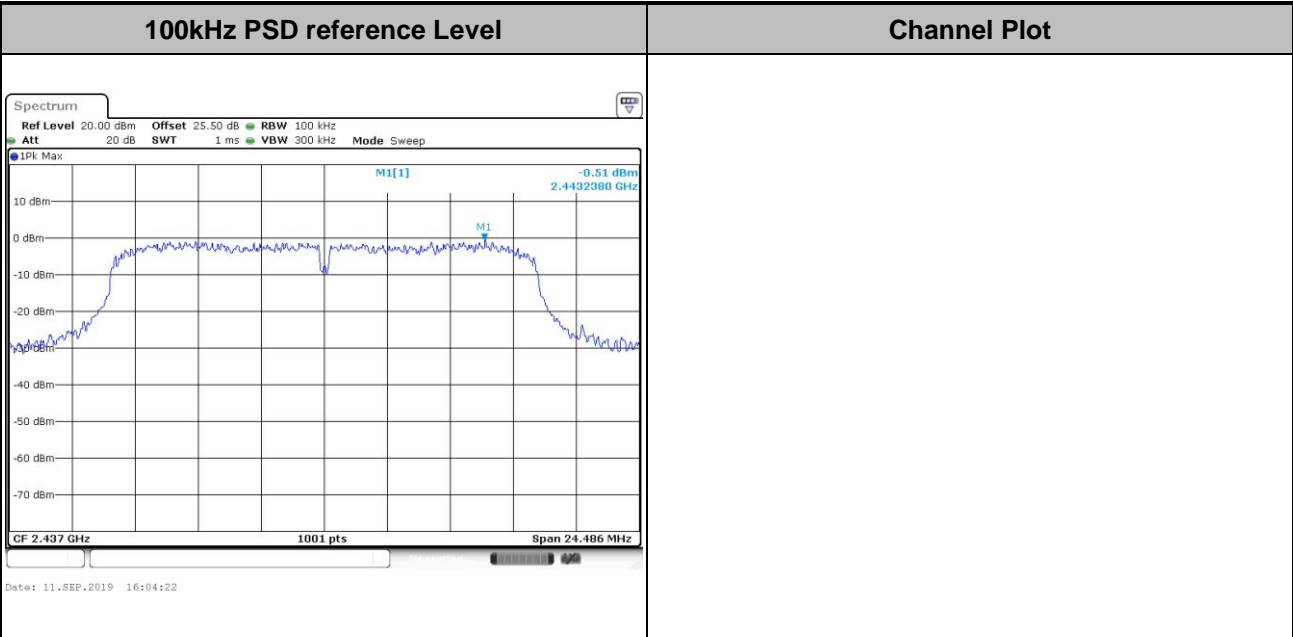


Test Mode : 802.11g Test Channel : 01



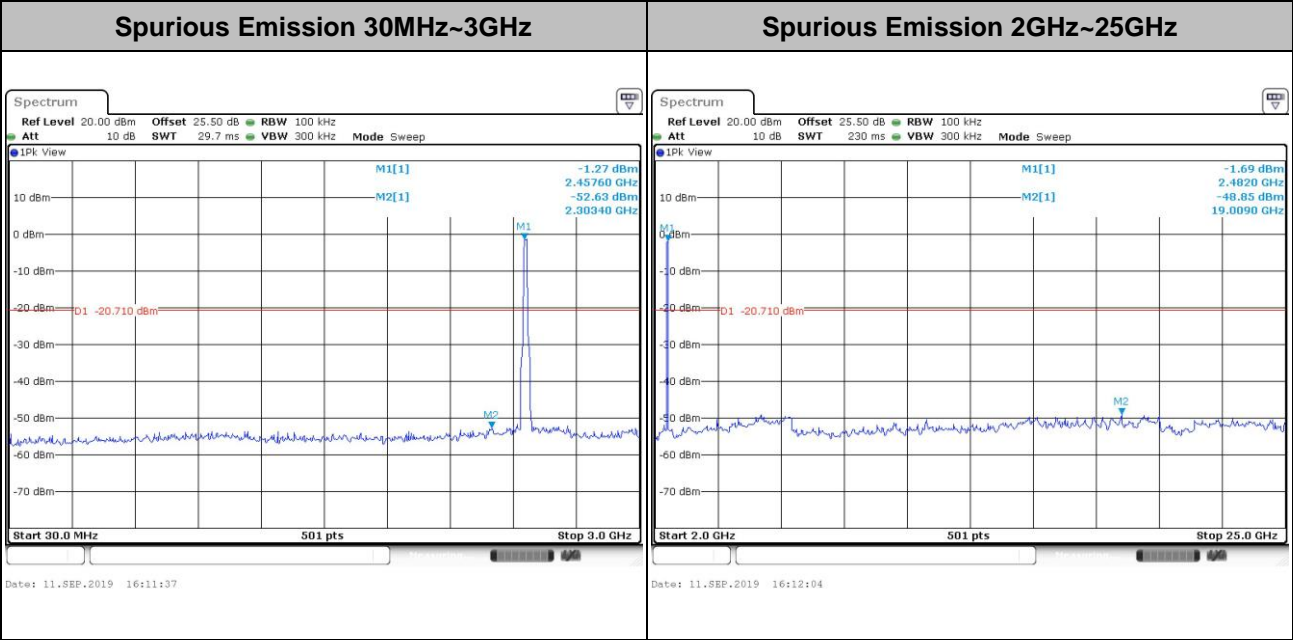
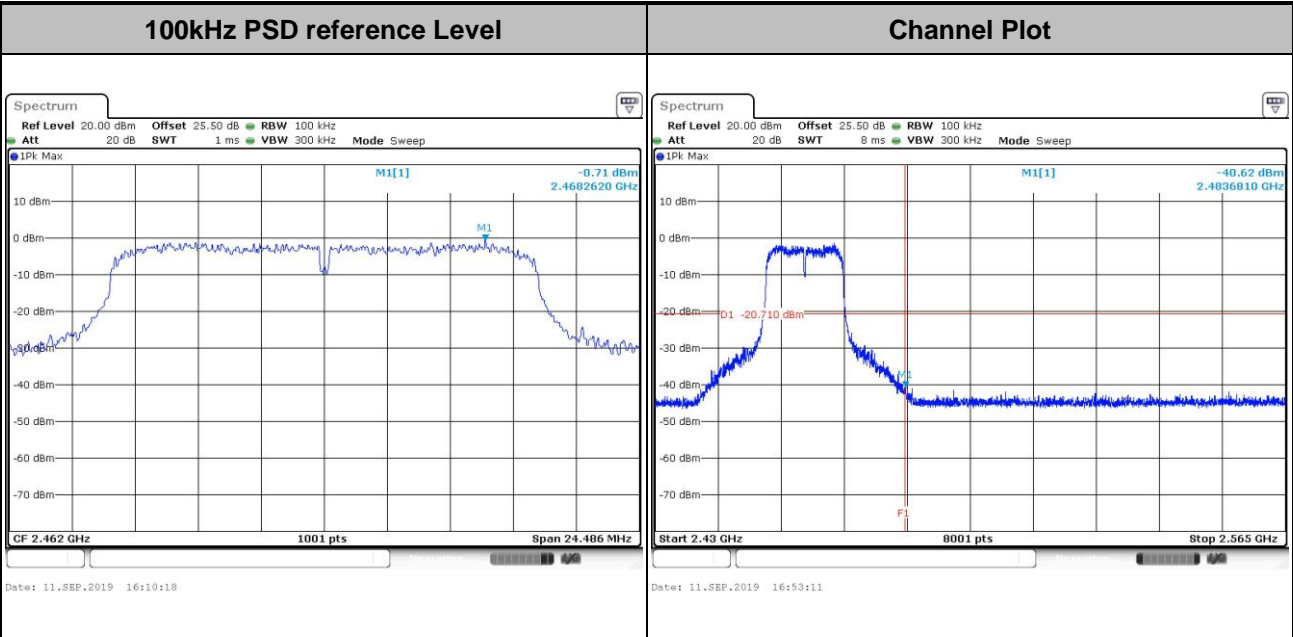


Test Mode :	802.11g	Test Channel :	06
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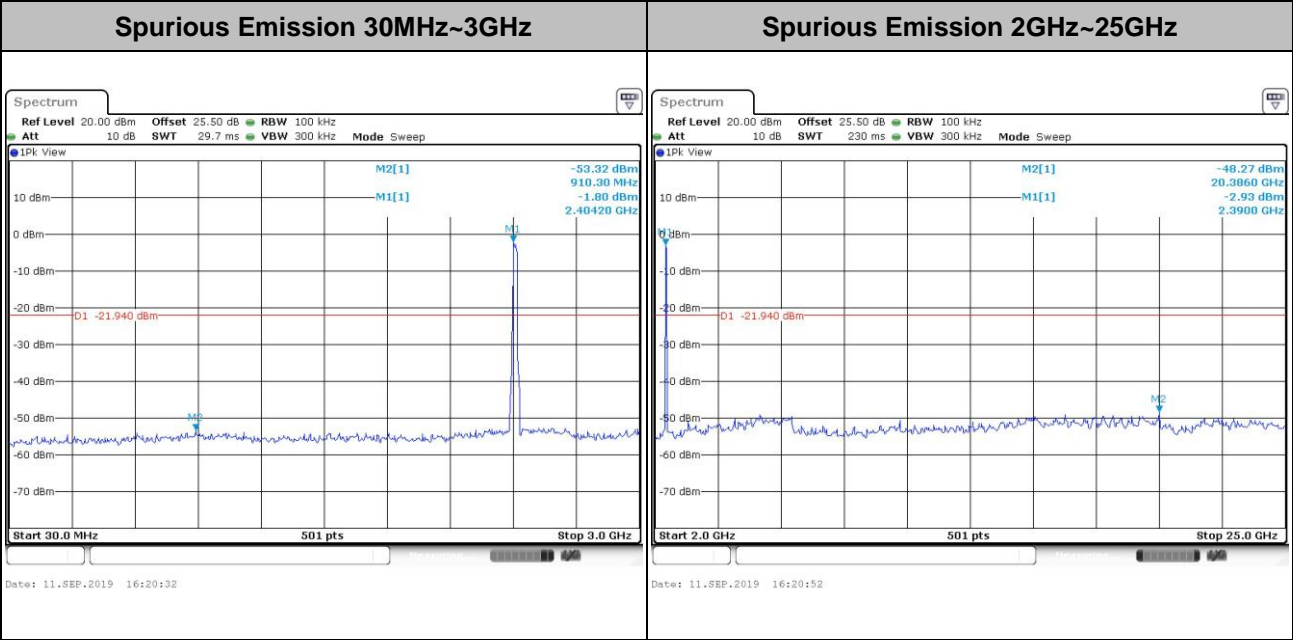
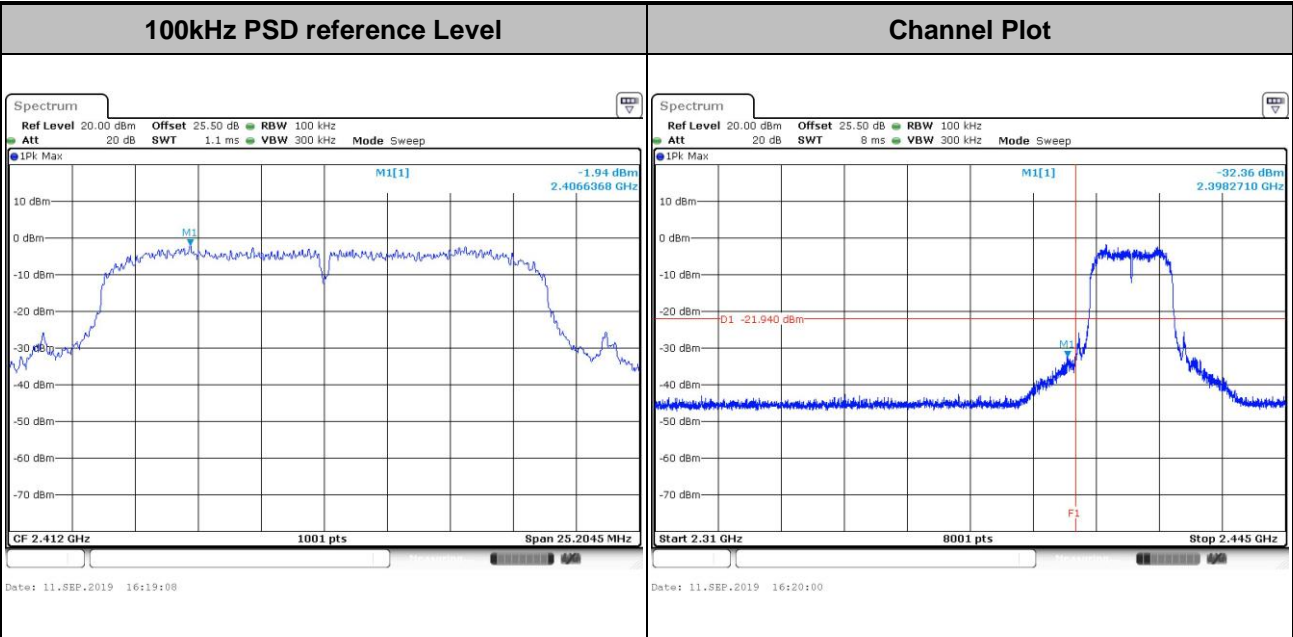


Test Mode :	802.11g	Test Channel :	11
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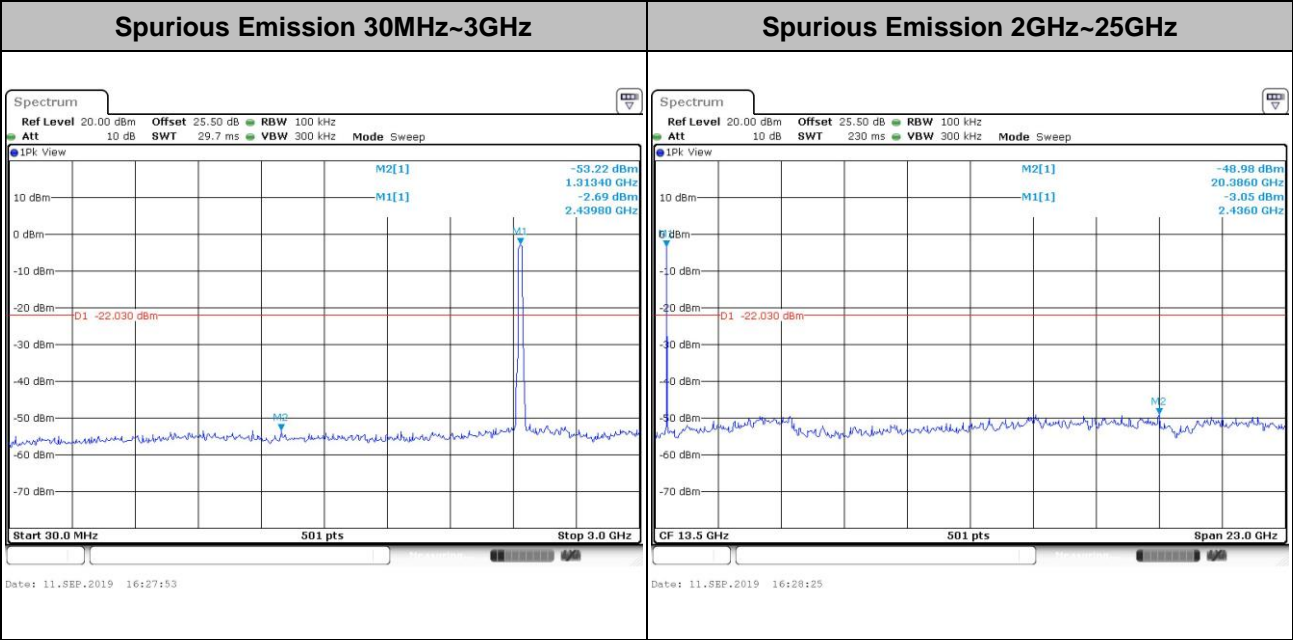
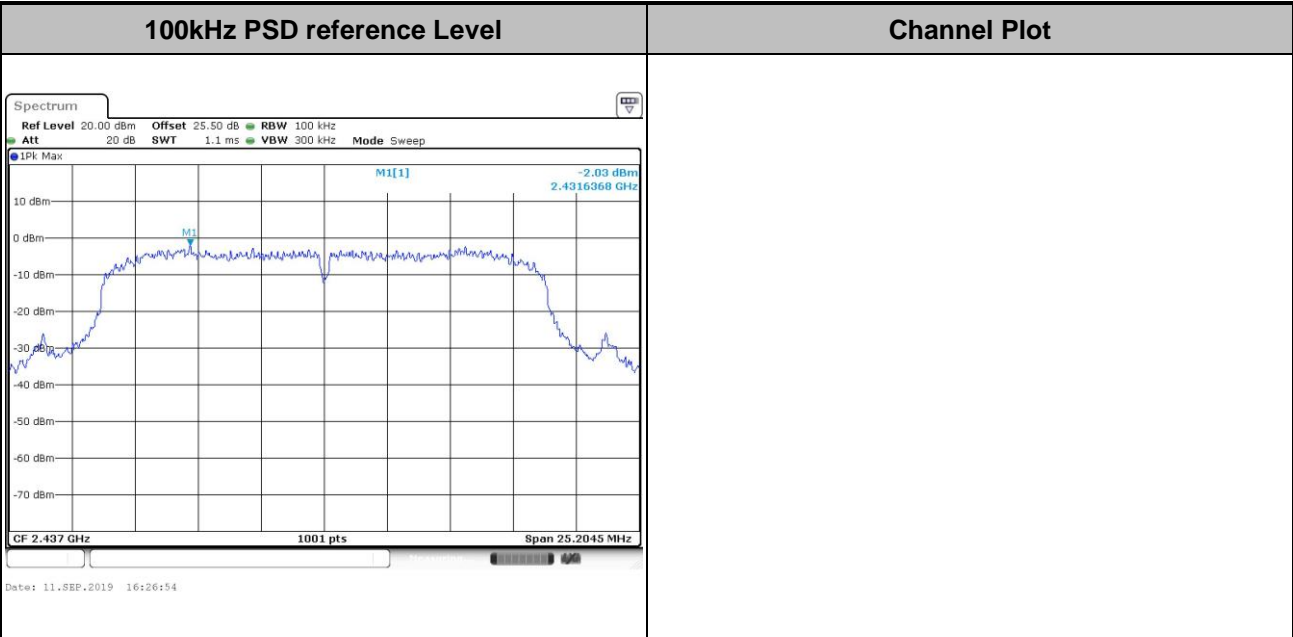


Test Mode : 802.11n HT20 Test Channel : 01



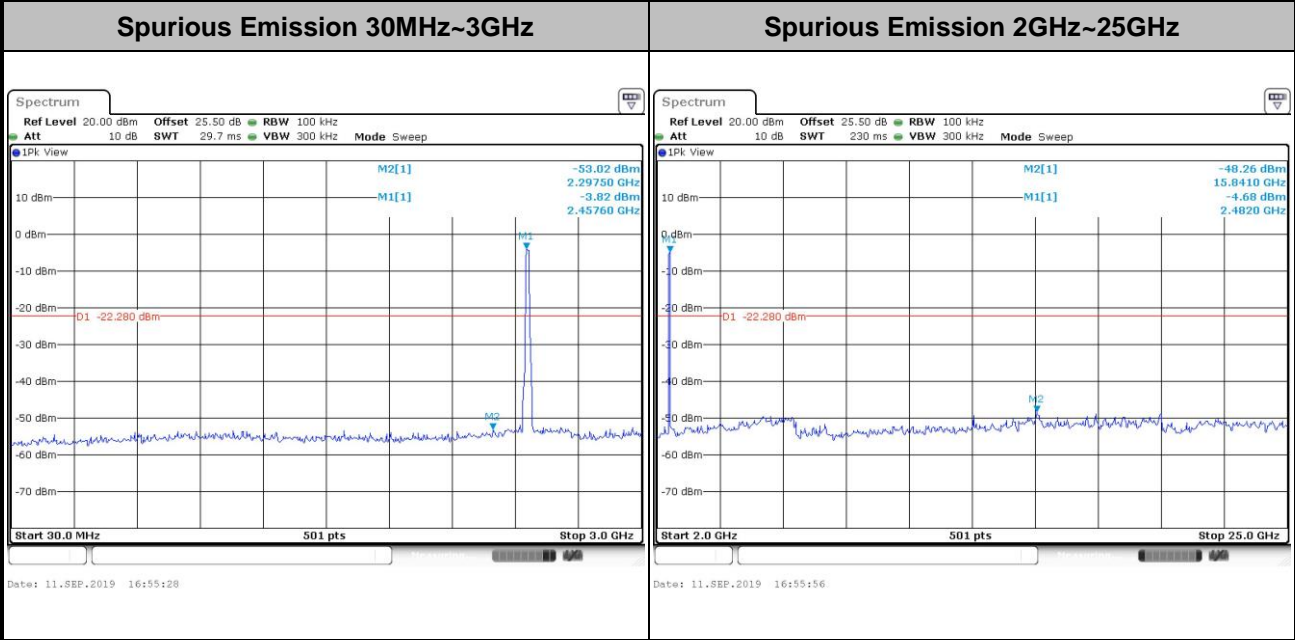
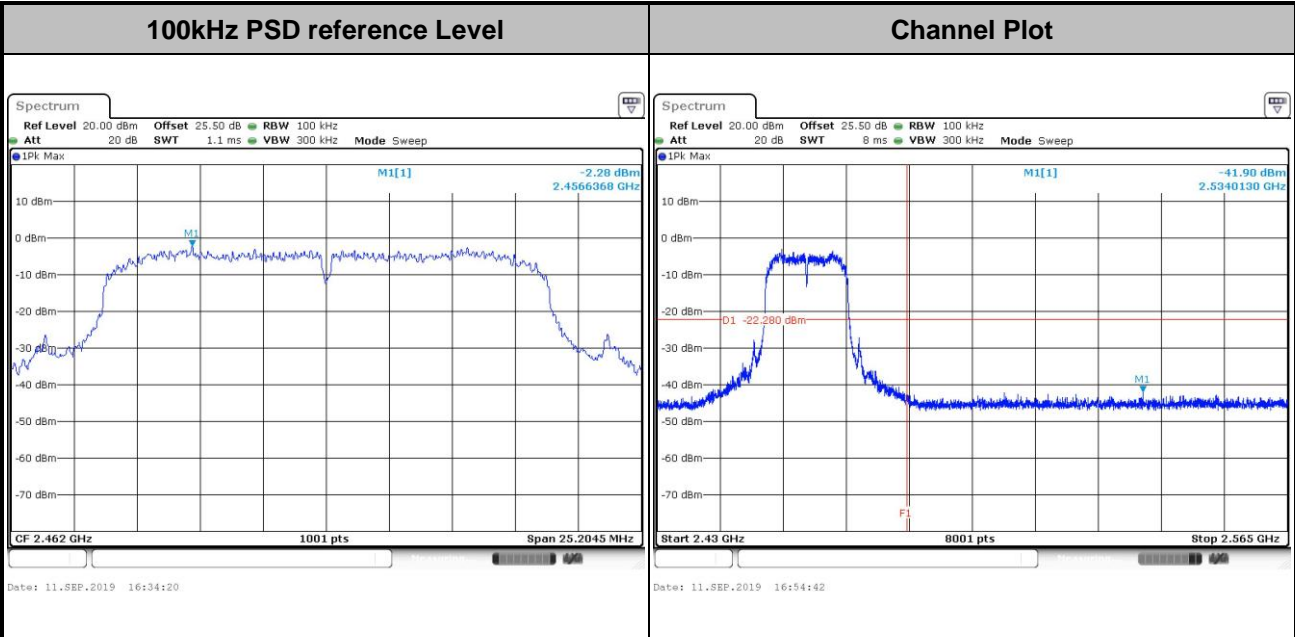


Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

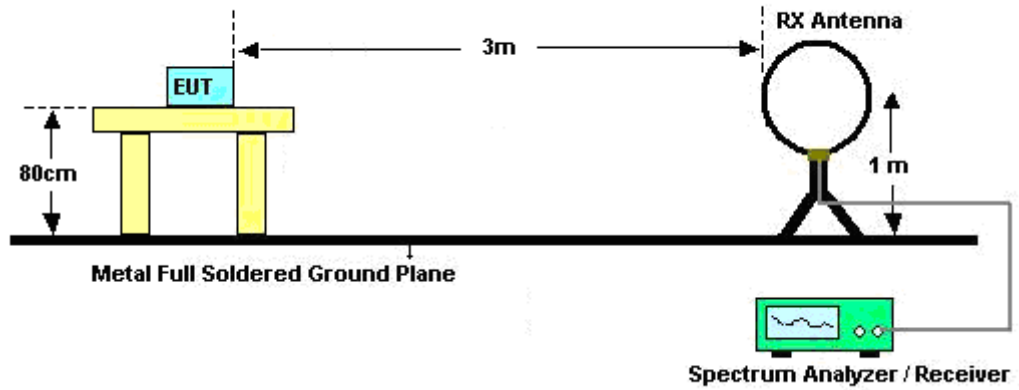


3.5.3 Test Procedures

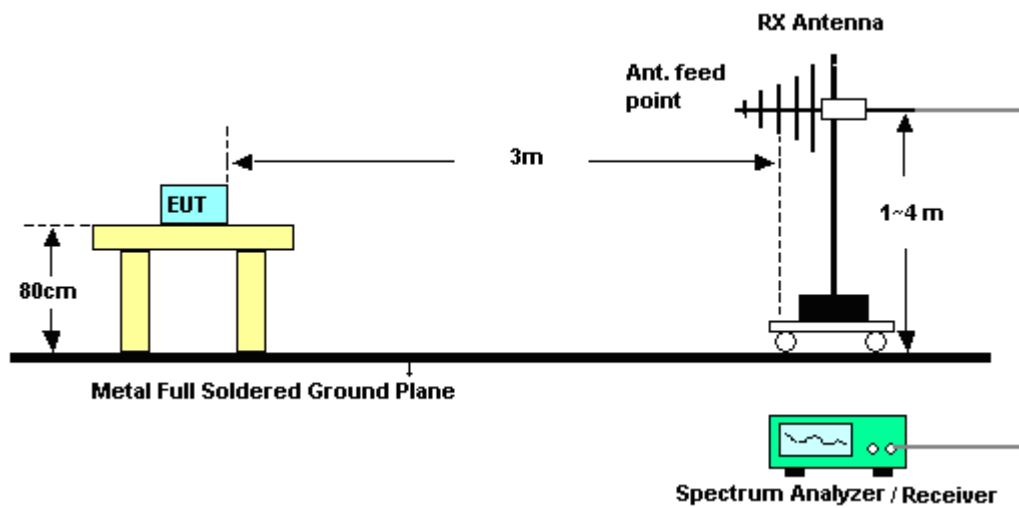
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

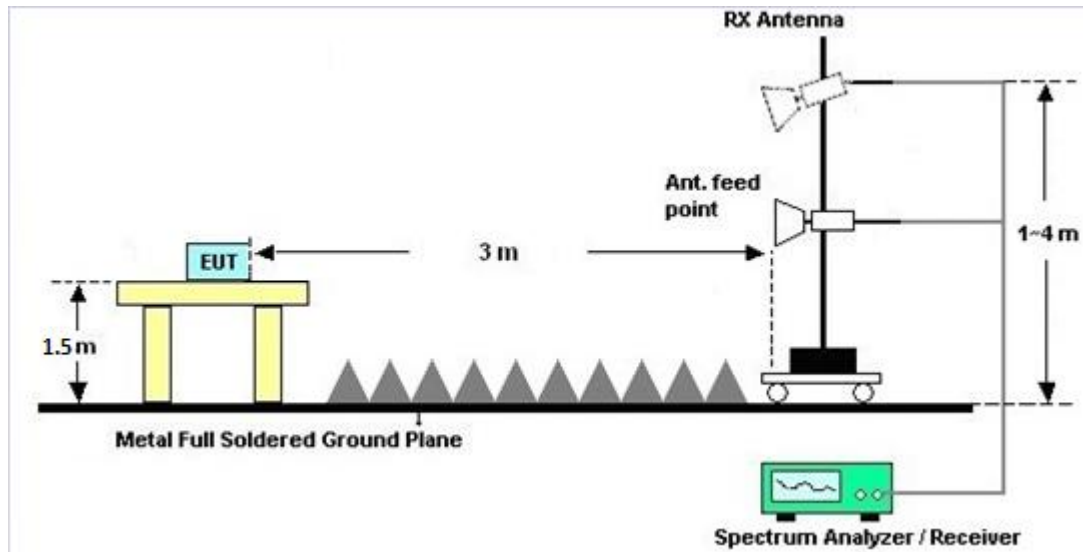
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and 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 B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	6111D	50391	30MHz~1GHz	Jun. 26, 2019	Sep. 11, 2019	Jun. 25, 2020	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Aug. 19, 2019	Sep. 11, 2019	Aug. 18, 2020	Radiation (03CH01-CA)
Amplifier	SONOMA	310N	372241	N/A	Jul. 26, 2019	Sep. 11, 2019	Jul. 25, 2020	Radiation (03CH01-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Apr. 01, 2019	Sep. 11, 2019	Mar. 31, 2020	Radiation (03CH01-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Jul. 26, 2019	Sep. 11, 2019	Jul. 25, 2020	Radiation (03CH01-CA)
EMI Test Receiver	R&S	ESU26	100049	20Hz~26.5GHz	Jul. 31, 2019	Sep. 11, 2019	Jul. 30, 2020	Radiation (03CH01-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2G Low Pass	Aug. 02, 2019	Sep. 11, 2019	Aug. 01, 2020	Radiation (03CH01-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN9	3G High pass	Aug. 02, 2019	Sep. 11, 2019	Aug. 01, 2020	Radiation (03CH01-CA)
Notch Filter	Wainwright	WRCJV10-2375-2400-2483-2508-40SS	SN4	Notch Filter	Aug. 02, 2019	Sep. 11, 2019	Aug. 01, 2020	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 11, 2019	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 11, 2019	N/A	Radiation (03CH01-CA)
Power Meter	Anritsu	ML2495A	1804004	N/A	Aug. 14, 2019	Sep. 11, 2019	Aug. 13, 2020	Conducted (TH01-CA)
Power Sensor	Anritsu	MA2411B	1726149	300MHz~40GHz	Aug. 15, 2019	Sep. 11, 2019	Aug. 14, 2020	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101545	10Hz~40GHz	May 17, 2019	Sep. 11, 2019	May 16, 2020	Conducted (TH01-CA)
Switch Box & RF Cable	EM	EMSW18	SW1070902	N/A	Apr. 07, 2019	Sep. 11, 2019	Apr. 06, 2020	Conducted (TH01-CA)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jordan Huang	Temperature:	21~25	°C
Test Date:	2019/9/11	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	16.03	-	10.05	-	0.50	Pass
11b	1Mbps	1	6	2437	16.03	-	10.05	-	0.50	Pass
11b	1Mbps	1	11	2462	16.03	-	10.05	-	0.50	Pass
11g	6Mbps	1	1	2412	16.63	-	16.32	-	0.50	Pass
11g	6Mbps	1	6	2437	16.63	-	16.32	-	0.50	Pass
11g	6Mbps	1	11	2462	16.63	-	16.32	-	0.50	Pass
HT20	MCS0	1	1	2412	17.28	-	16.80	-	0.50	Pass
HT20	MCS0	1	6	2437	17.28	-	16.80	-	0.50	Pass
HT20	MCS0	1	11	2462	17.28	-	16.80	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	16.74	-	-	30.00	-	4.10	-	20.84	-	36.00	-	Pass
11b	1Mbps	1	6	2437	16.55	-	-	30.00	-	4.10	-	20.65	-	36.00	-	Pass
11b	1Mbps	1	11	2462	16.33	-	-	30.00	-	4.10	-	20.43	-	36.00	-	Pass
11g	6Mbps	1	1	2412	20.63	-	-	30.00	-	4.10	-	24.73	-	36.00	-	Pass
11g	6Mbps	1	6	2437	20.54	-	-	30.00	-	4.10	-	24.64	-	36.00	-	Pass
11g	6Mbps	1	11	2462	20.45	-	-	30.00	-	4.10	-	24.55	-	36.00	-	Pass
HT20	MCS0	1	1	2412	19.46	-	-	30.00	-	4.10	-	23.56	-	36.00	-	Pass
HT20	MCS0	1	6	2437	19.38	-	-	30.00	-	4.10	-	23.48	-	36.00	-	Pass
HT20	MCS0	1	11	2462	19.20	-	-	30.00	-	4.10	-	23.30	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-14.88	-	-	4.10	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-15.06	-	-	4.10	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-15.21	-	-	4.10	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-15.27	-	-	4.10	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-15.47	-	-	4.10	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-15.60	-	-	4.10	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-16.15	-	-	4.10	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-16.38	-	-	4.10	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-16.63	-	-	4.10	-	8.00	-	Pass

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



Appendix B. Radiated Spurious Emission

Test Engineer :	Eric Jeng	Temperature :	23~25°C
		Relative Humidity :	44~49%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)	
802.11b CH 01 2412MHz		2389.38	54.08	-19.92	74	40.87	27.62	16.93	31.34	130	342	P	H	
		2389.695	44.36	-9.64	54	31.15	27.62	16.93	31.34	130	342	A	H	
	*	2412	106.93	-	-	93.68	27.6	16.97	31.32	130	342	P	H	
	*	2412	103.34	-	-	90.09	27.6	16.97	31.32	130	342	A	H	
													H	
														H
			2358.09	52.79	-21.21	74	39.38	27.89	16.88	31.36	352	189	P	V
			2389.485	39.89	-14.11	54	26.66	27.64	16.93	31.34	352	189	A	V
	*		2412	97.01	-	-	83.77	27.59	16.97	31.32	352	189	P	V
	*		2412	93.43	-	-	80.19	27.59	16.97	31.32	352	189	A	V
														V
														V
802.11b CH 06 2437MHz		2342	53.43	-20.57	74	40.07	27.88	16.85	31.37	109	30	P	H	
		2357.84	40.66	-13.34	54	27.35	27.79	16.88	31.36	109	30	A	H	
	*	2437	107.5	-	-	94.24	27.55	17.01	31.3	109	30	P	H	
	*	2437	103.85	-	-	90.59	27.55	17.01	31.3	109	30	A	H	
			2486.24	52.6	-21.4	74	39.17	27.61	17.09	31.27	109	30	P	H
			2483.52	40.51	-13.49	54	27.08	27.61	17.09	31.27	109	30	A	H
			2374.48	52.21	-21.79	74	38.88	27.77	16.91	31.35	400	9	P	V
			2326.96	39.69	-14.31	54	26.22	28.02	16.83	31.38	400	9	A	V
	*		2437	97.8	-	-	84.59	27.5	17.01	31.3	400	9	P	V
	*		2437	94.15	-	-	80.94	27.5	17.01	31.3	400	9	A	V
			2498.4	51.93	-22.07	74	38.46	27.62	17.11	31.26	400	9	P	V
			2485.76	39.65	-14.35	54	26.25	27.58	17.09	31.27	400	9	A	V



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802.11b CH 11 2462MHz	*	2462	106.94	-	-	93.6	27.58	17.05	31.29	116	347	P	H
	*	2462	103.28	-	-	89.94	27.58	17.05	31.29	116	347	A	H
		2484.4	55.2	-18.8	74	41.77	27.61	17.09	31.27	116	347	P	H
		2483.52	44.76	-9.24	54	31.33	27.61	17.09	31.27	116	347	A	H
													H
													H
	*	2462	97.6	-	-	84.3	27.54	17.05	31.29	388	191	P	V
	*	2462	93.95	-	-	80.65	27.54	17.05	31.29	388	191	A	V
		2487.72	52.72	-21.28	74	39.28	27.62	17.09	31.27	388	191	P	V
		2483.52	40.74	-13.26	54	27.34	27.58	17.09	31.27	388	191	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	40.04	-33.96	74	54.3	31.43	10.76	56.45	100	0	P	H	
													H	
													H	
													H	
			4824	39.95	-34.05	74	54.23	31.41	10.76	56.45	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	39.99	-34.01	74	54.35	31.39	10.79	56.54	100	0	P	H	
		7311	44.8	-29.2	74	52.21	36.42	12.78	56.61	100	0	P	H	
													H	
													H	
			4874	40.52	-33.48	74	54.96	31.31	10.79	56.54	100	0	P	V
			7311	45	-29	74	52.23	36.6	12.78	56.61	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	41.37	-32.63	74	55.68	31.44	10.84	56.59	100	0	P	H	
		7386	44.48	-29.52	74	51.77	36.46	12.87	56.62	100	0	P	H	
													H	
													H	
			4924	40.85	-33.15	74	55.19	31.41	10.84	56.59	100	0	P	V
			7386	45.56	-28.44	74	52.81	36.5	12.87	56.62	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 802.11g (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		2389.905	69.99	-4.01	74	56.77	27.62	16.93	31.33	116	337	P	H	
		2389.905	50.34	-3.66	54	37.12	27.62	16.93	31.33	116	337	A	H	
	*	2412	109.12	-	-	95.87	27.6	16.97	31.32	116	337	P	H	
	*	2412	99.8	-	-	86.55	27.6	16.97	31.32	116	337	A	H	
													H	
														H
			2389.905	65.9	-8.1	74	52.66	27.64	16.93	31.33	357	8	P	V
			2389.905	47.05	-6.95	54	33.81	27.64	16.93	31.33	357	8	A	V
	*		2412	104.21	-	-	90.97	27.59	16.97	31.32	357	8	P	V
	*		2412	95.15	-	-	81.91	27.59	16.97	31.32	357	8	A	V
														V
														V
802.11g CH 06 2437MHz		2320.24	56.89	-17.11	74	43.5	27.95	6.84	31.38	109	37	P	H	
		2390	43.63	-10.37	54	30.41	27.62	6.95	31.33	109	37	A	H	
	*	2437	108.71	-	-	95.45	27.55	7.03	31.3	109	37	P	H	
	*	2437	99.77	-	-	86.51	27.55	7.03	31.3	109	37	A	H	
			2484	56.21	-17.79	74	42.78	27.61	7.11	31.27	109	37	P	H
			2483.52	44.15	-9.85	54	30.72	27.61	7.11	31.27	109	37	A	H
			2316.88	56.7	-17.3	74	43.25	28.02	6.83	31.38	393	10	P	V
			2353.2	42.78	-11.22	54	29.38	27.89	6.89	31.36	393	10	A	V
	*		2437	99.91	-	-	86.7	27.5	7.03	31.3	393	10	P	V
	*		2437	90.63	-	-	77.42	27.5	7.03	31.3	393	10	A	V
			2494.16	55.59	-18.41	74	42.12	27.62	7.13	31.26	393	10	P	V
			2483.6	42.69	-11.31	54	29.29	27.58	7.11	31.27	393	10	A	V



802.11g CH 11 2462MHz	*	2462	109.09	-	-	95.75	27.58	17.05	31.29	100	341	P	H
	*	2462	99.69	-	-	86.35	27.58	17.05	31.29	100	341	A	H
		2483.52	71.68	-2.32	74	58.25	27.61	17.09	31.27	100	341	P	H
		2483.52	51.51	-2.49	54	38.08	27.61	17.09	31.27	100	341	A	H
													H
													H
	*	2462	99.55	-	-	86.25	27.54	17.05	31.29	400	294	P	V
	*	2462	90.11	-	-	76.81	27.54	17.05	31.29	400	294	A	V
		2483.64	64.39	-9.61	74	50.99	27.58	17.09	31.27	400	294	P	V
		2483.52	45.88	-8.12	54	32.48	27.58	17.09	31.27	400	294	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. 												



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	41.47	-32.53	74	55.73	31.43	10.76	56.45	100	0	P	H	
													H	
													H	
													H	
			4824	40.38	-33.62	74	54.66	31.41	10.76	56.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	40.44	-33.56	74	54.8	31.39	10.79	56.54	100	0	P	H	
		7311	44.94	-29.06	74	52.35	36.42	12.78	56.61	100	0	P	H	
													H	
													H	
			4874	39.59	-34.41	74	54.03	31.31	10.79	56.54	100	0	P	V
			7311	45.18	-28.82	74	52.41	36.6	12.78	56.61	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	43.17	-30.83	74	57.48	31.44	10.84	56.59	100	0	P	H	
		7386	46.08	-27.92	74	53.37	36.46	12.87	56.62	100	0	P	H	
													H	
													H	
			4924	41.27	-32.73	74	55.61	31.41	10.84	56.59	100	0	P	V
			7386	45.67	-28.33	74	52.92	36.5	12.87	56.62	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 HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		2389.905	59.17	-14.83	74	45.95	27.62	16.93	31.33	101	345	P	H	
		2389.905	43.56	-10.44	54	30.34	27.62	16.93	31.33	101	345	A	H	
	*	2412	105.23	-	-	91.98	27.6	16.97	31.32	101	345	P	H	
	*	2412	96.01	-	-	82.76	27.6	16.97	31.32	101	345	A	H	
													H	
														H
			2312.31	52.55	-21.45	74	39.11	28.02	16.81	31.39	352	188	P	V
			2389.905	40.08	-13.92	54	26.84	27.64	16.93	31.33	352	188	A	V
		*	2412	95.86	-	-	82.62	27.59	16.97	31.32	352	188	P	V
		*	2412	86.73	-	-	73.49	27.59	16.97	31.32	352	188	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2353.36	52.78	-21.22	74	39.48	27.79	16.87	31.36	110	38	P	H	
		2390	40.43	-13.57	54	27.21	27.62	16.93	31.33	110	38	A	H	
	*	2437	106.24	-	-	92.98	27.55	17.01	31.3	110	38	P	H	
	*	2437	97.11	-	-	83.85	27.55	17.01	31.3	110	38	A	H	
			2496.16	52.3	-21.7	74	38.81	27.64	17.11	31.26	110	38	P	H
			2483.52	40.65	-13.35	54	27.22	27.61	17.09	31.27	110	38	A	H
			2345.04	52.77	-21.23	74	39.26	28.02	16.86	31.37	400	6	P	V
			2327.6	39.72	-14.28	54	26.25	28.02	16.83	31.38	400	6	A	V
		*	2437	95.52	-	-	82.31	27.5	17.01	31.3	400	6	P	V
		*	2437	86.51	-	-	73.3	27.5	17.01	31.3	400	6	A	V
		2486.48	52.48	-21.52	74	39.08	27.58	17.09	31.27	400	6	P	V	
		2485.44	39.7	-14.3	54	26.3	27.58	17.09	31.27	400	6	A	V	



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802.11n HT20 CH 11 2462MHz	*	2462	106.02	-	-	92.68	27.58	17.05	31.29	108	45	P	H
	*	2462	97	-	-	83.66	27.58	17.05	31.29	108	45	A	H
		2483.52	61.56	-12.44	74	48.13	27.61	17.09	31.27	108	45	P	H
		2483.52	45.5	-8.5	54	32.07	27.61	17.09	31.27	108	45	A	H
													H
													H
	*	2462	95.8	-	-	82.5	27.54	17.05	31.29	344	195	P	V
	*	2462	86.99	-	-	73.69	27.54	17.05	31.29	344	195	A	V
		2483.52	55.61	-18.39	74	42.21	27.58	17.09	31.27	344	195	P	V
		2483.52	41.19	-12.81	54	27.79	27.58	17.09	31.27	344	195	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	42.22	-31.78	74	56.48	31.43	10.76	56.45	400	0	P	H	
													H	
													H	
													H	
			4824	40.42	-33.58	74	54.7	31.41	10.76	56.45	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	40.7	-33.3	74	55.06	31.39	10.79	56.54	400	0	P	H	
		7311	45.76	-28.24	74	53.17	36.42	12.78	56.61	400	0	P	H	
													H	
													H	
			4874	40.08	-33.92	74	54.52	31.31	10.79	56.54	100	0	P	V
			7311	45.29	-28.71	74	52.52	36.6	12.78	56.61	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	41.95	-32.05	74	56.26	31.44	10.84	56.59	400	0	P	H	
		7386	44.99	-29.01	74	52.28	36.46	12.87	56.62	400	0	P	H	
													H	
													H	
			4924	40.54	-33.46	74	54.66	31.63	10.84	56.59	100	0	P	V
			7386	44.57	-29.43	74	51.79	36.53	12.87	56.62	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

Emission below 1GHz

2.4GHz WIFI 802.11g (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 802.11g LF		30	20.25	-19.75	40	26.49	25	1.2	32.44	-	-	P	H	
		480.08	25.5	-20.5	46	30.94	23.6	3.51	32.55	-	-	P	H	
		579.02	26.62	-19.38	46	29.46	25.92	3.87	32.63	-	-	P	H	
		748.77	30.55	-15.45	46	30.55	28.08	4.29	32.37	-	-	P	H	
		861.29	30.96	-15.04	46	28.61	29.3	4.89	31.84	-	-	P	H	
		947.62	31.87	-14.13	46	27.2	30.75	5.08	31.16	100	0	P	H	
														H
														H
														H
														H
														H
			105.66	21.07	-22.43	43.5	35.05	16.57	1.8	32.35	100	0	P	V
			561.56	25.61	-20.39	46	28.38	26.1	3.75	32.62	-	-	P	V
			640.13	26.19	-19.81	46	28.27	26.4	4.13	32.61	-	-	P	V
			746.83	29.31	-16.69	46	29.36	28.04	4.29	32.38	-	-	P	V
			859.35	30.01	-15.99	46	27.69	29.29	4.88	31.85	-	-	P	V
			951.5	31.49	-14.51	46	26.67	30.86	5.09	31.13	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Note symbol

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



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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Eric Jeng	Temperature :	23~25°C
		Relative Humidity :	44~49%

Note symbol

-L	Low channel location
-R	High channel location



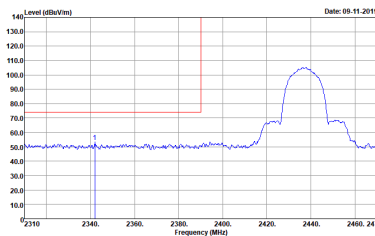
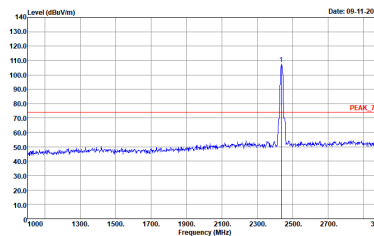
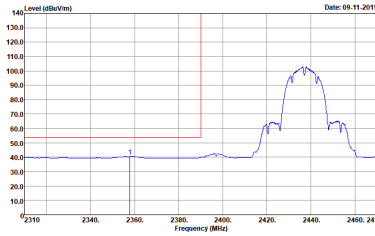
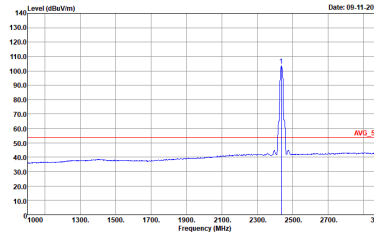
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																							
ANT	802.11b CH01 2412MHz																																																							
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Peak	<p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN 91200-1HF_02140 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #A193019 Mode : 11b_Tx_CH01 Plane : Z without Accessory Power Setting : Default</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.38</td> <td>54.08</td> <td>-19.92</td> <td>74.00</td> <td>40.87</td> <td>27.62</td> <td>6.95</td> <td>31.34</td> <td>130</td> <td>342</td> <td>Peak</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Level	Line	Level Factor	Loss Factor	dB	dB	cm	deg	1	2389.38	54.08	-19.92	74.00	40.87	27.62	6.95	31.34	130	342	Peak	<p>Site : 03CH01-CA Condition : PEAK_74 3m HORN 91200-1HF_02140 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #A193019 Mode : 11b_Tx_CH01 Plane : Z without Accessory Power Setting : Default</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>* 2412.00</td> <td>106.93</td> <td>32.93</td> <td>74.00</td> <td>93.68</td> <td>27.60</td> <td>6.99</td> <td>31.32</td> <td>130</td> <td>342</td> <td>Peak</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Level	Line	Level Factor	Loss Factor	dB	dB	cm	deg	1	* 2412.00	106.93	32.93	74.00	93.68	27.60	6.99	31.32	130	342	Peak
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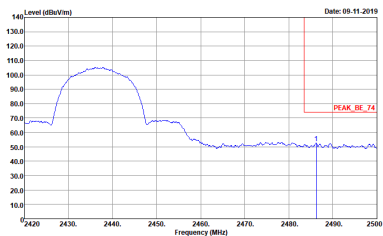
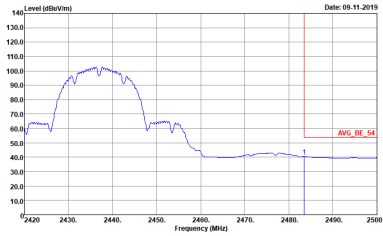


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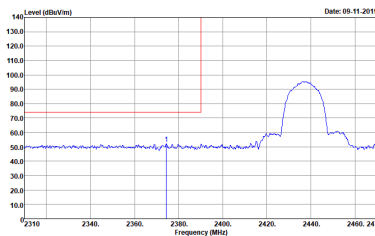
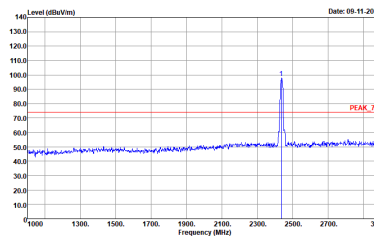
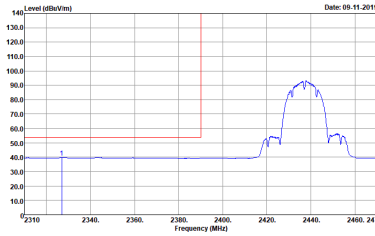
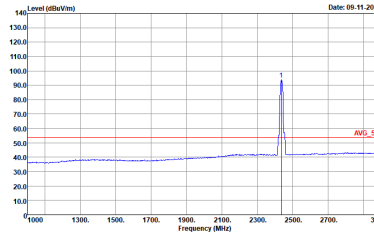


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1	2342.00	53.43	-28.57	74.00	48.87	27.88	6.87	31.37	189	30 Peak																																																						
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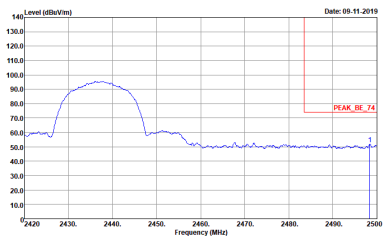
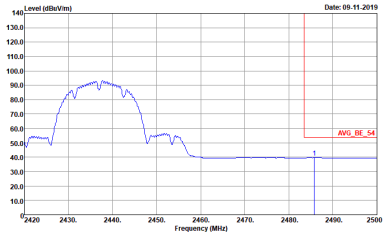


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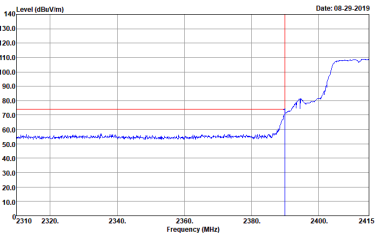
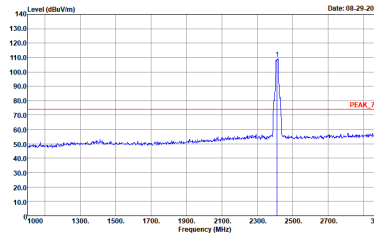
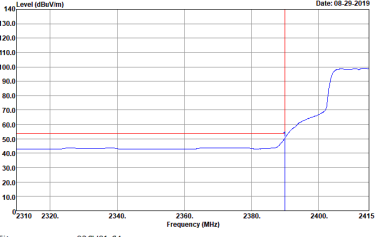
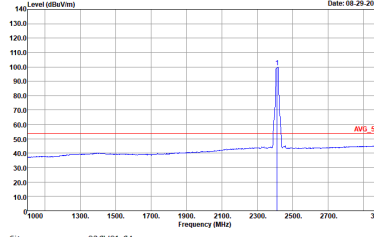
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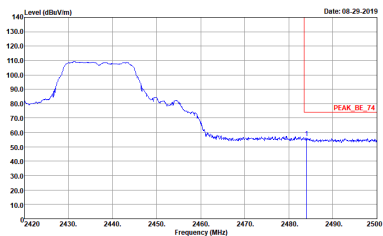
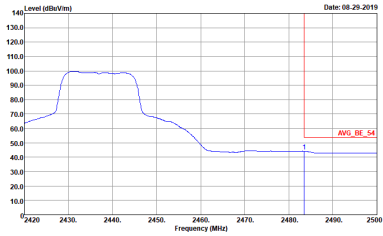


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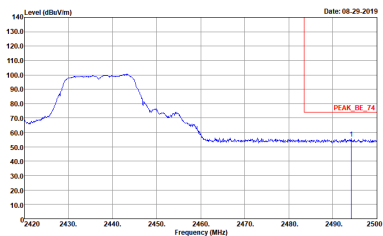
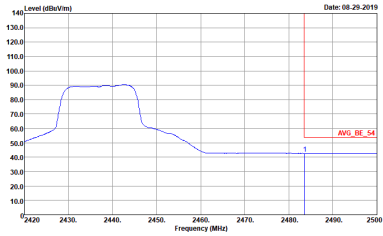


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2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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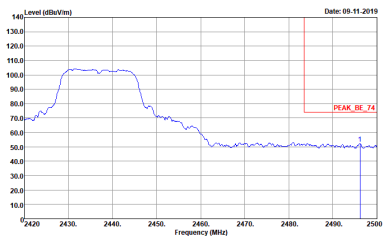
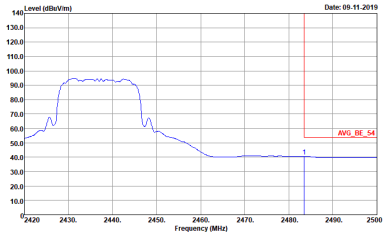


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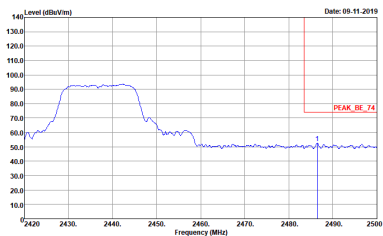
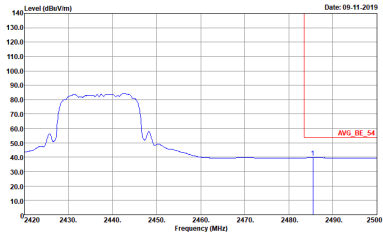


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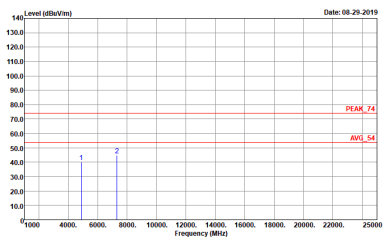
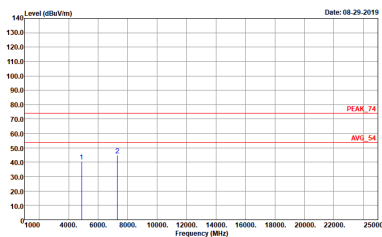


2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

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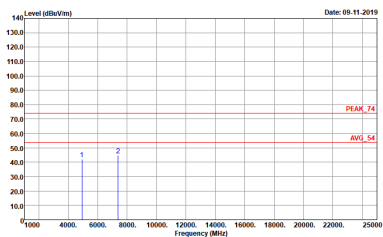
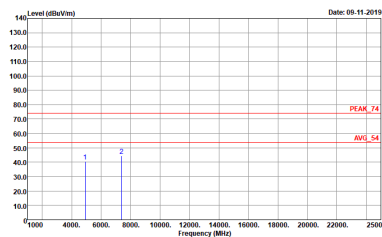
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WIFI 802.11n HT20 (Harmonic @ 3m)

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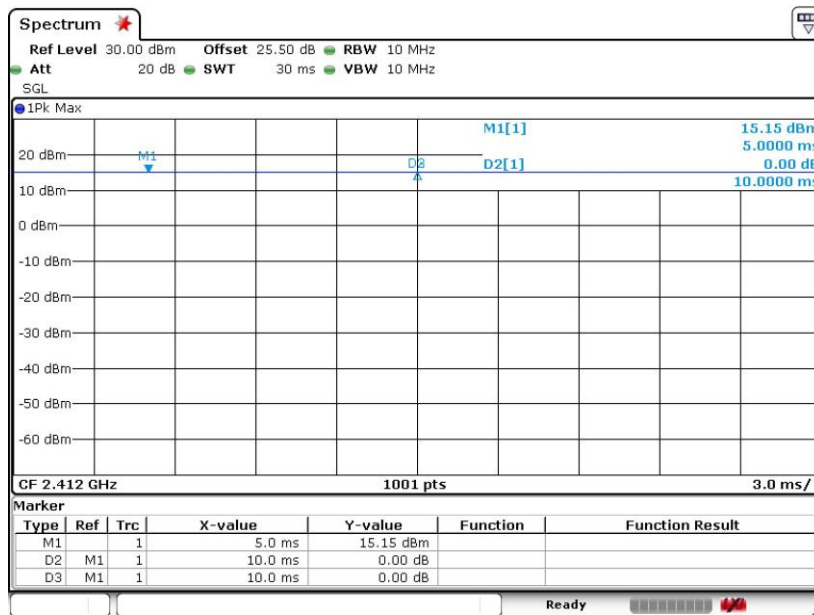
Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

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6	951.58	31.49	-14.51	46.00	26.67	38.86	4.85	31.13	--- Peak																																																																																																																																																					

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100	-	-	10Hz	0.00
802.11g	100	-	-	10Hz	0.00
2.4GHz 802.11n HT20	100	-	-	10Hz	0.00

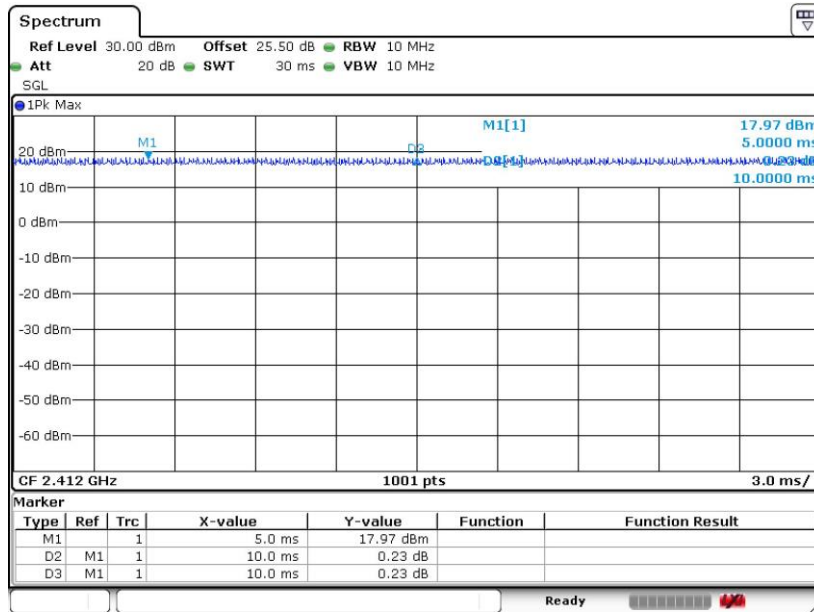
802.11b



Date: 11.SEP.2019 15:14:29

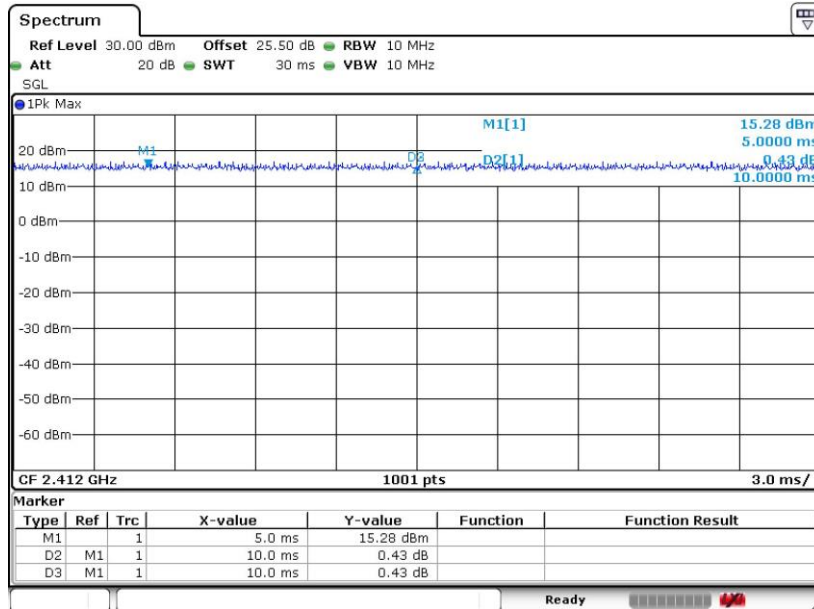


802.11g



Date: 11.SEP.2019 15:43:58

802.11n HT20



Date: 11.SEP.2019 16:14:59