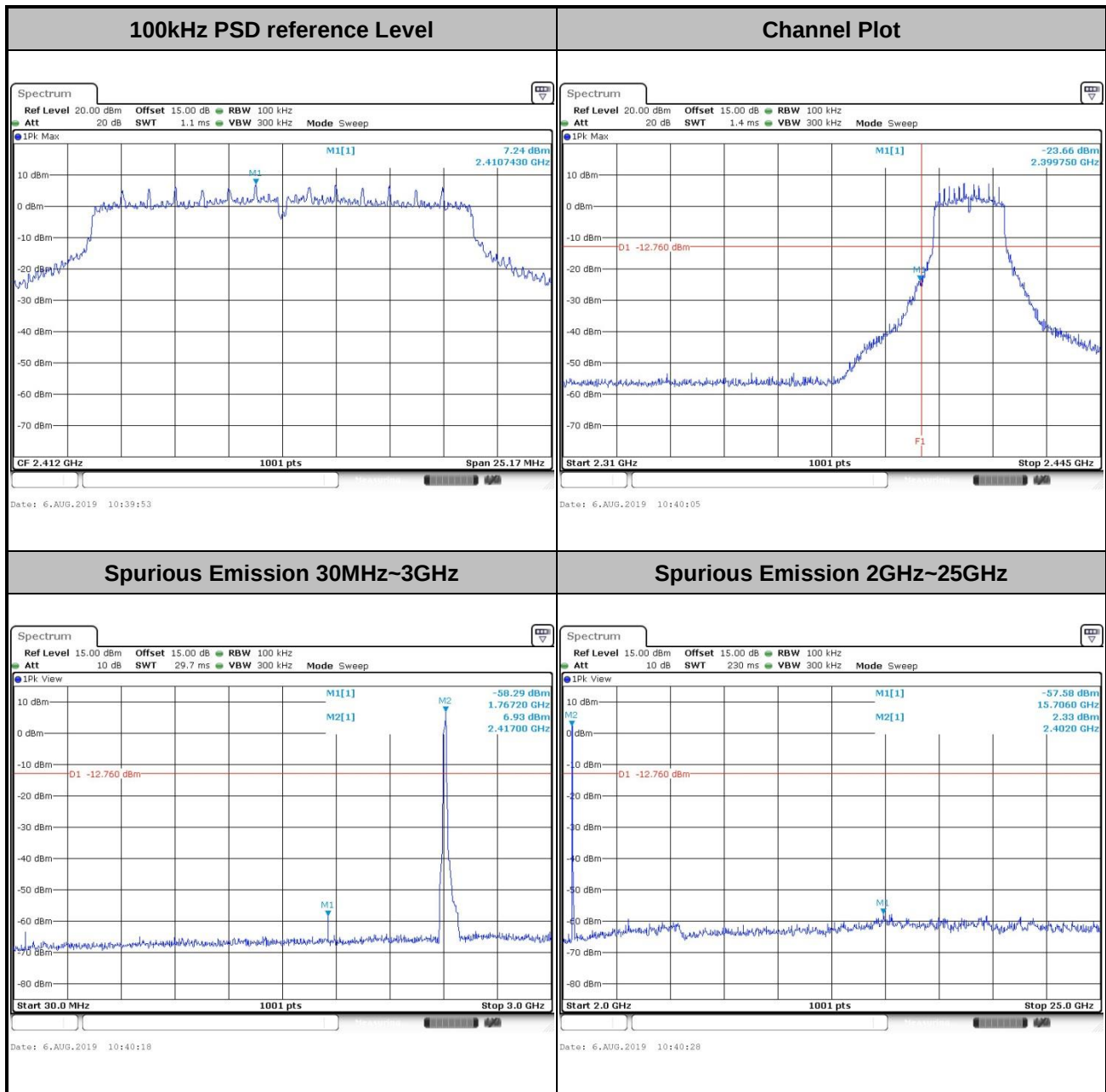




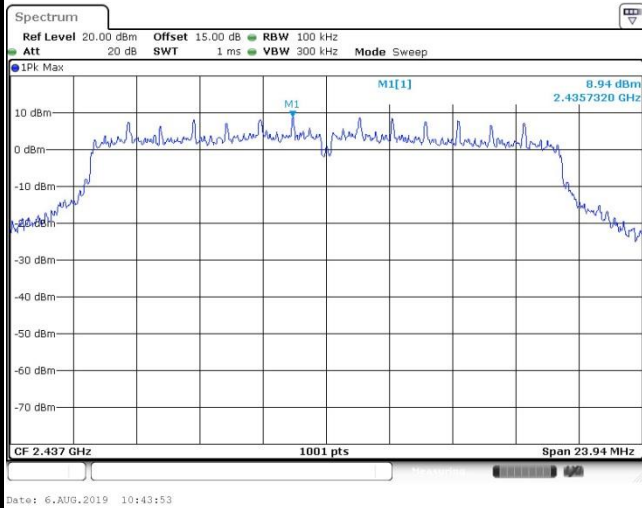
Test Mode :	802.11n HT20	Test Channel :	01
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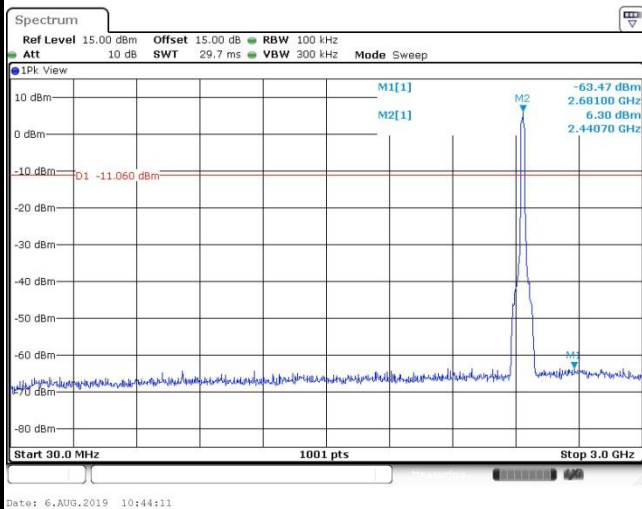
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

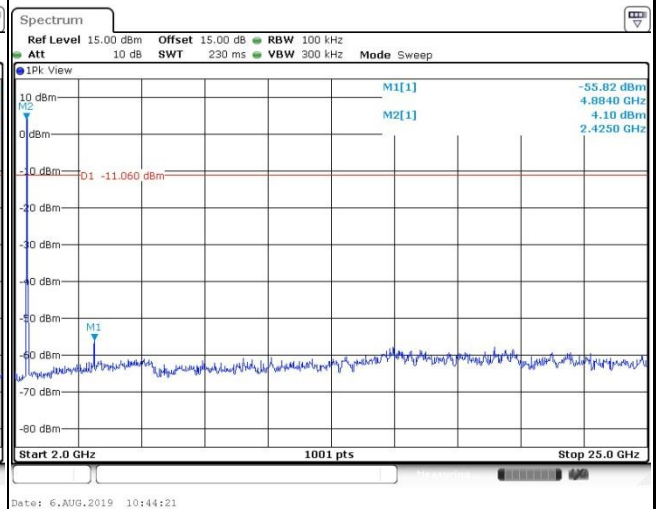


Channel Plot

Spurious Emission 30MHz~3GHz

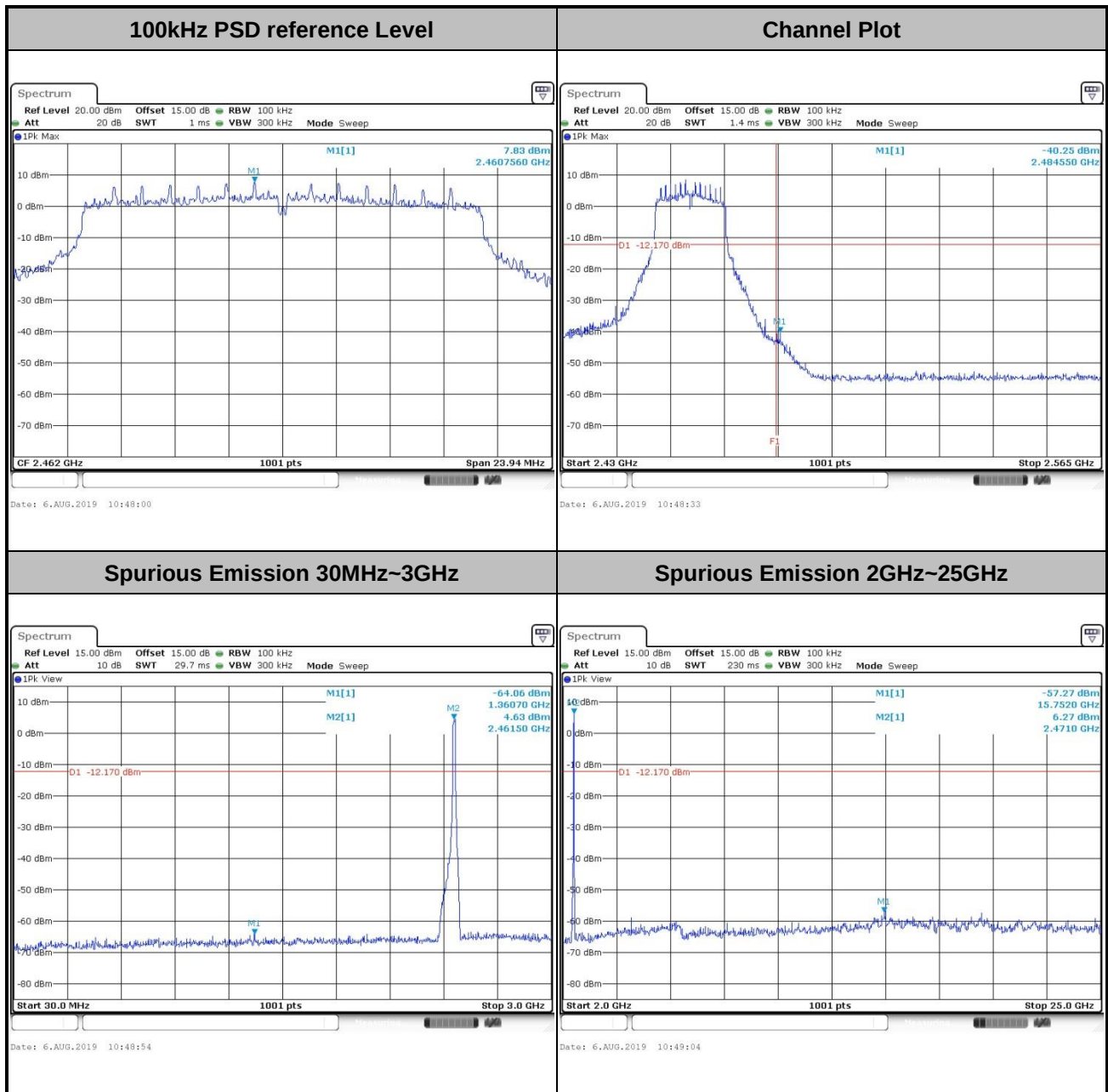


Spurious Emission 2GHz~25GHz



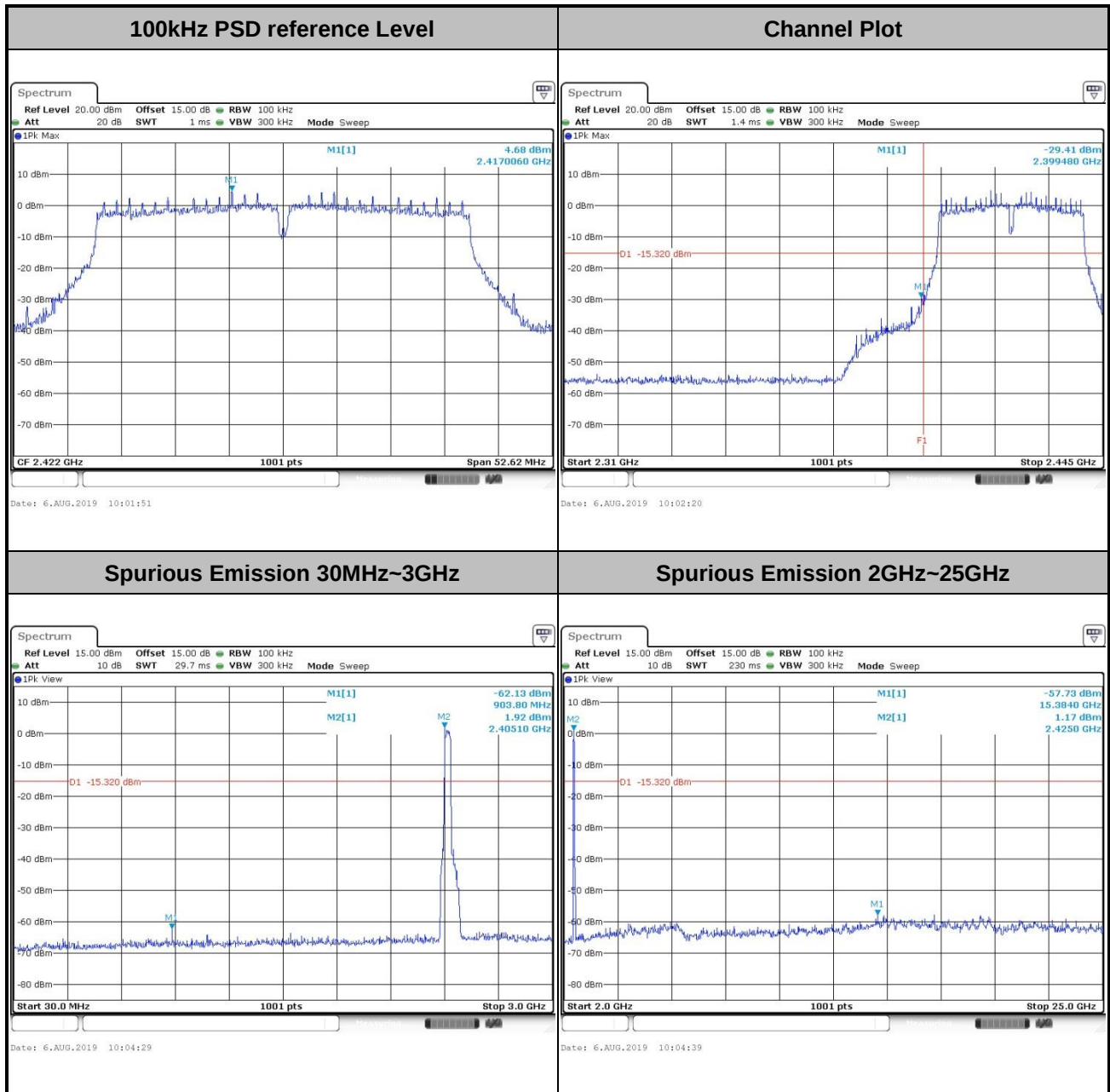


Test Mode :	802.11n HT20	Test Channel :	11
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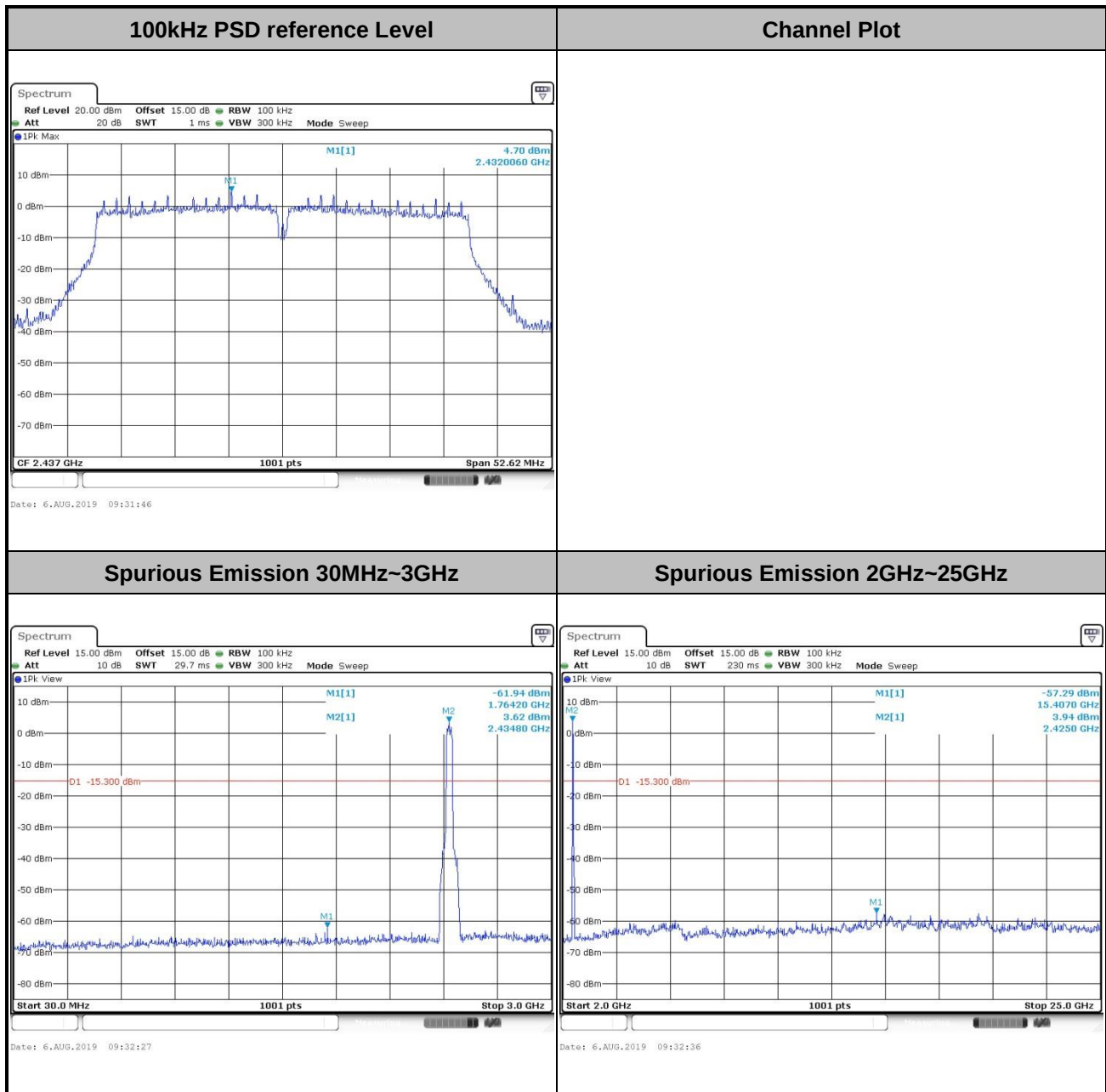


Test Mode :	802.11n HT40	Test Channel :	03
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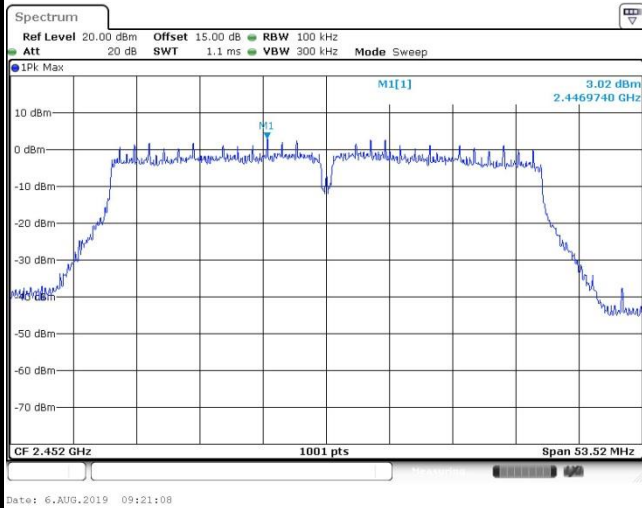
Test Mode :	802.11n HT40	Test Channel :	06
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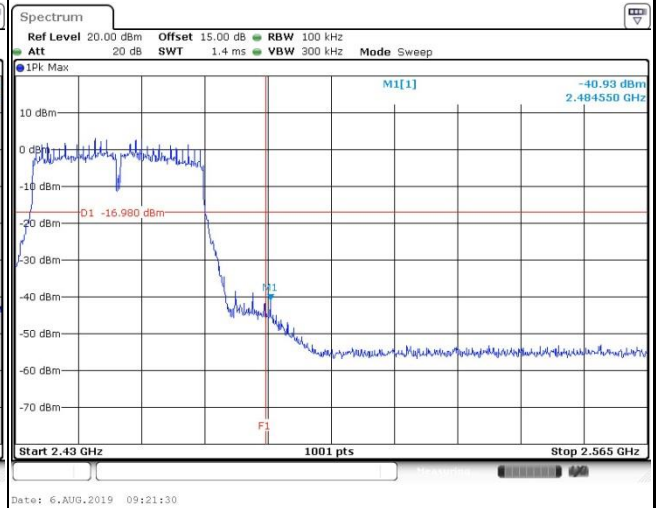


Test Mode :	802.11n HT40	Test Channel :	09
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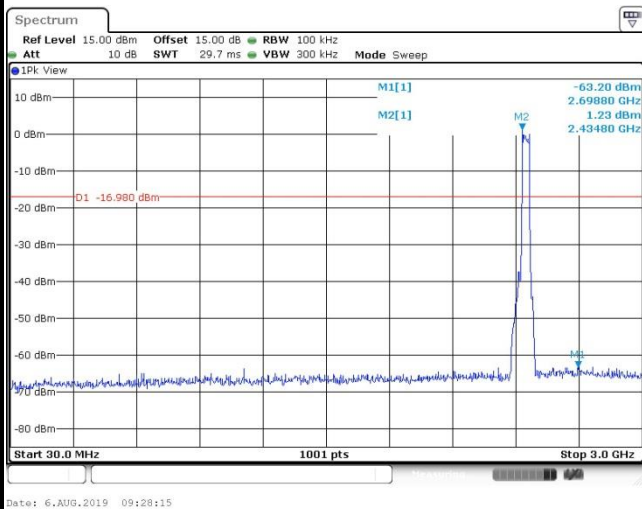
100kHz PSD reference Level



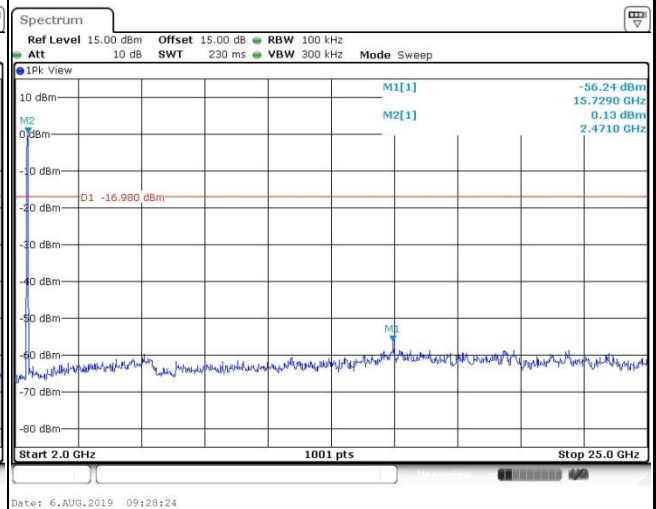
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

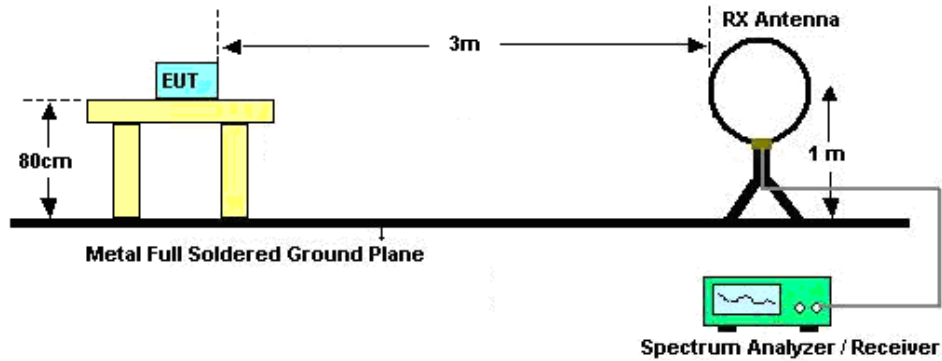
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than 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:

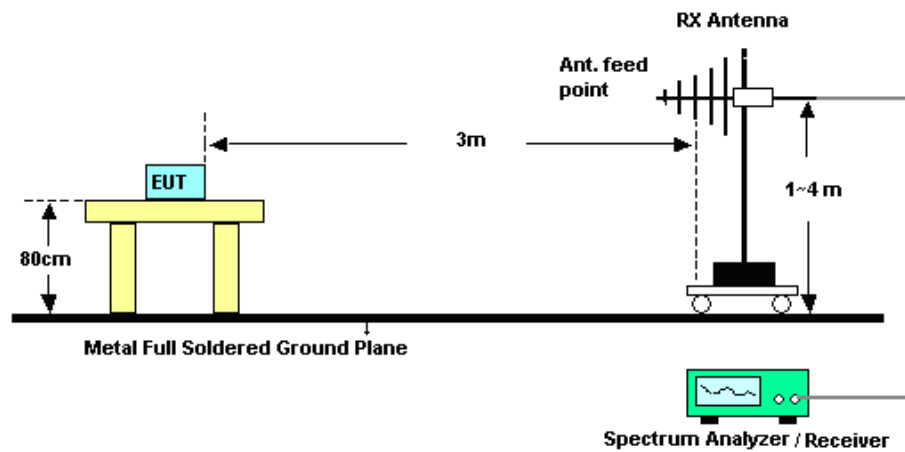
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

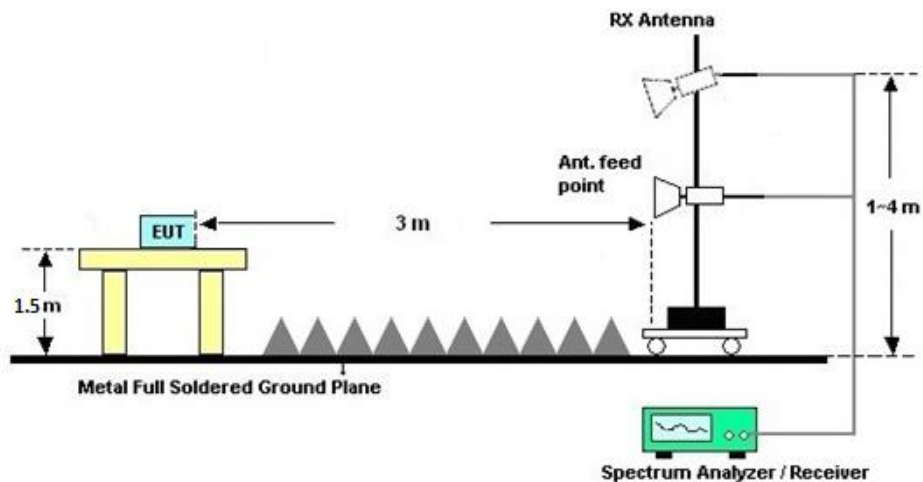
For radiated emissions below 30MHz



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 semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

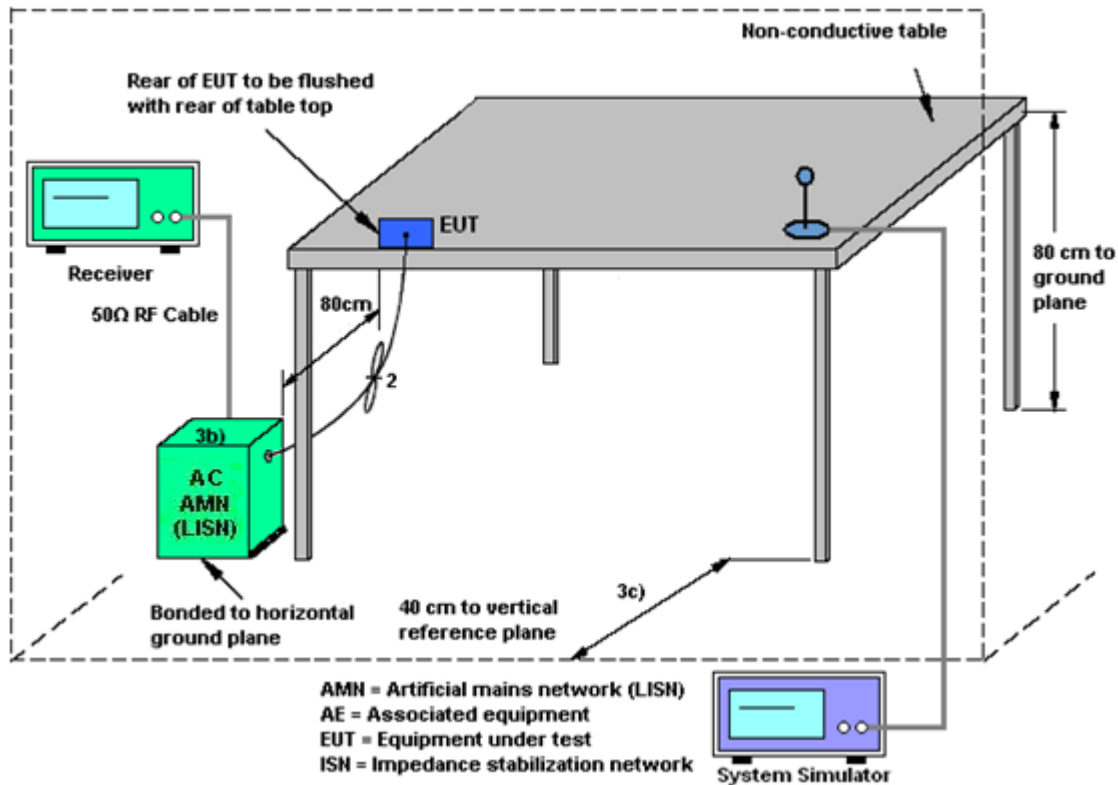
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	-2.80	-3.00	-2.80	0.11	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Jul. 10, 2019~ Aug. 06, 2019	Apr. 17, 2020	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 22, 2018	Jul. 10, 2019~ Aug. 06, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 22, 2018	Jul. 10, 2019~ Aug. 06, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Apr. 19, 2019	Aug. 04, 2019	Apr. 18, 2020	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May. 29, 2018	Aug. 04, 2019	May. 28, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jun. 05, 2019	Aug. 04, 2019	Jun. 04, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-128 5	1GHz~18GHz	Jan. 07, 2019	Aug. 04, 2019	Jan. 06, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 18, 2019	Aug. 04, 2019	Jul. 17, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Mar. 30, 2019	Aug. 04, 2019	Mar. 29, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2018	Aug. 04, 2019	Oct. 17, 2019	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-001018 00-30-10P-R	1707137	1GHz~18GHz	Oct. 20, 2018	Aug. 04, 2019	Oct. 19, 2019	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A010 23	1GHz~26.5GHz	Oct. 18, 2018	Aug. 04, 2019	Oct. 17, 2019	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002 470	N/A	NCR	Aug. 04, 2019	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 04, 2019	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 04, 2019	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	Jul. 20, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 18, 2018	Jul. 20, 2019	Oct. 17, 2019	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	Jul. 20, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000	100Vac~250Vac	Jul. 23, 2018	Jul. 20, 2019	Jul. 22, 2019	Conduction (CO01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.6 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
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Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jensen Wu	Temperature:	21~25	°C
Test Date:	2019/7/10~2019/8/6	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	14.09	14.49	8.07	8.07	0.50	Pass
11b	1Mbps	2	6	2437	14.29	14.14	8.07	8.07	0.50	Pass
11b	1Mbps	2	11	2462	13.94	14.24	8.05	8.07	0.50	Pass
11g	6Mbps	2	1	2412	17.68	17.48	15.38	16.00	0.50	Pass
11g	6Mbps	2	6	2437	17.68	17.43	15.72	15.70	0.50	Pass
11g	6Mbps	2	11	2462	17.33	17.43	15.44	15.26	0.50	Pass
HT20	MCS0	2	1	2412	18.83	18.73	16.04	16.78	0.50	Pass
HT20	MCS0	2	6	2437	18.83	18.68	15.98	15.96	0.50	Pass
HT20	MCS0	2	11	2462	18.48	18.53	15.94	15.96	0.50	Pass
HT40	MCS0	2	3	2422	36.26	36.36	35.08	35.08	0.50	Pass
HT40	MCS0	2	6	2437	36.66	36.46	35.68	35.08	0.50	Pass
HT40	MCS0	2	9	2452	36.36	36.46	35.12	35.68	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	2	1	2412	19.07	19.21	22.15	30.00		-2.80		19.35		36.00		Pass
11b	1Mbps	2	6	2437	19.05	19.50	22.29	30.00		-2.80		19.49		36.00		Pass
11b	1Mbps	2	11	2462	19.38	19.33	22.37	30.00		-2.80		19.57		36.00		Pass
11g	6Mbps	2	1	2412	21.80	22.07	24.95	30.00		-2.80		22.15		36.00		Pass
11g	6Mbps	2	6	2437	21.90	22.25	25.09	30.00		-2.80		22.29		36.00		Pass
11g	6Mbps	2	11	2462	22.09	22.14	25.13	30.00		-2.80		22.33		36.00		Pass
HT20	MCS0	2	1	2412	20.87	21.36	24.13	30.00		-2.80		21.33		36.00		Pass
HT20	MCS0	2	6	2437	21.90	22.20	25.06	30.00		-2.80		22.26		36.00		Pass
HT20	MCS0	2	11	2462	22.01	22.09	25.06	30.00		-2.80		22.26		36.00		Pass
HT40	MCS0	2	3	2422	22.37	22.90	25.65	30.00		-2.80		22.85		36.00		Pass
HT40	MCS0	2	6	2437	22.76	23.04	25.91	30.00		-2.80		23.11		36.00		Pass
HT40	MCS0	2	9	2452	21.41	21.76	24.60	30.00		-2.80		21.80		36.00		Pass
VHT20	MCS0	2	1	2412	20.80	21.30	24.07	30.00		-2.80		21.27		36.00		Pass
VHT20	MCS0	2	6	2437	21.85	22.12	25.00	30.00		-2.80		22.20		36.00		Pass
VHT20	MCS0	2	11	2462	22.00	22.01	25.02	30.00		-2.80		22.22		36.00		Pass
VHT40	MCS0	2	3	2422	22.35	22.70	25.54	30.00		-2.80		22.74		36.00		Pass
VHT40	MCS0	2	6	2437	22.75	22.85	25.81	30.00		-2.80		23.01		36.00		Pass
VHT40	MCS0	2	9	2452	21.31	21.46	24.40	30.00		-2.80		21.60		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
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
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	17.60	17.70	20.66	30.00		-2.80		17.86		36.00		Pass
11b	1Mbps	2	6	2437	17.50	17.90	20.71	30.00		-2.80		17.91		36.00		Pass
11b	1Mbps	2	11	2462	17.70	17.80	20.76	30.00		-2.80		17.96		36.00		Pass
11g	6Mbps	2	1	2412	17.50	17.60	20.56	30.00		-2.80		17.76		36.00		Pass
11g	6Mbps	2	6	2437	17.40	17.80	20.61	30.00		-2.80		17.81		36.00		Pass
11g	6Mbps	2	11	2462	17.50	17.70	20.61	30.00		-2.80		17.81		36.00		Pass
HT20	MCS0	2	1	2412	16.80	17.20	20.01	30.00		-2.80		17.21		36.00		Pass
HT20	MCS0	2	6	2437	17.40	17.80	20.61	30.00		-2.80		17.81		36.00		Pass
HT20	MCS0	2	11	2462	17.60	17.70	20.66	30.00		-2.80		17.86		36.00		Pass
HT40	MCS0	2	3	2422	17.00	17.30	20.16	30.00		-2.80		17.36		36.00		Pass
HT40	MCS0	2	6	2437	17.00	17.30	20.16	30.00		-2.80		17.36		36.00		Pass
HT40	MCS0	2	9	2452	16.10	16.20	19.16	30.00		-2.80		16.36		36.00		Pass
VHT20	MCS0	2	1	2412	16.70	17.10	19.91	30.00		-2.80		17.11		36.00		Pass
VHT20	MCS0	2	6	2437	17.30	17.70	20.51	30.00		-2.80		17.71		36.00		Pass
VHT20	MCS0	2	11	2462	17.50	17.60	20.56	30.00		-2.80		17.76		36.00		Pass
VHT40	MCS0	2	3	2422	16.90	17.10	20.01	30.00		-2.80		17.21		36.00		Pass
VHT40	MCS0	2	6	2437	16.90	17.10	20.01	30.00		-2.80		17.21		36.00		Pass
VHT40	MCS0	2	9	2452	16.00	16.10	19.06	30.00		-2.80		16.26		36.00		Pass

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

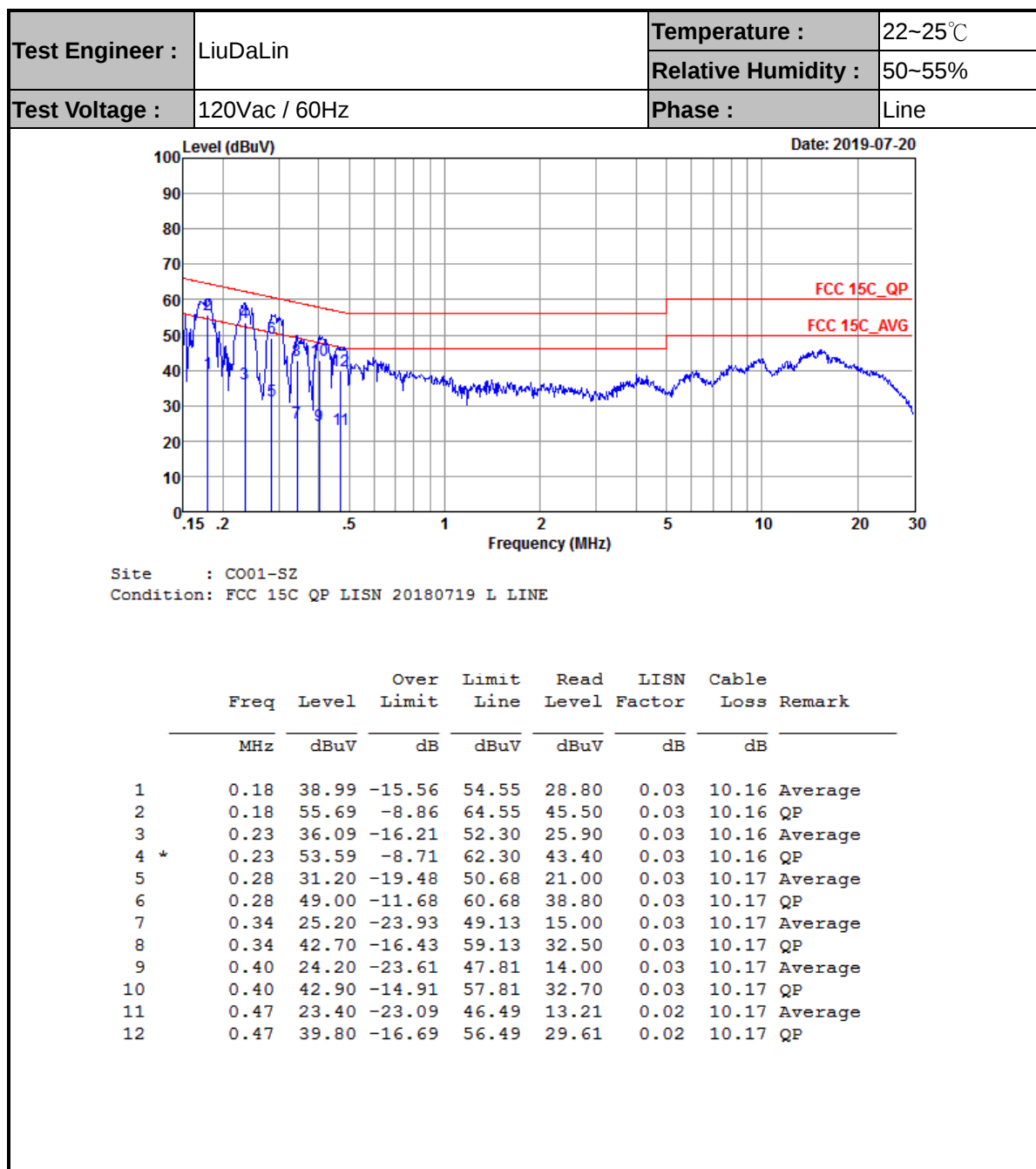
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	N _{TX}	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	2	1	2412	-4.97	-6.13	-1.96	0.11		8.00		Pass
11b	1Mbps	2	6	2437	-6.55	-5.50	-2.49	0.11		8.00		Pass
11b	1Mbps	2	11	2462	-5.98	-4.87	-1.86	0.11		8.00		Pass
11g	6Mbps	2	1	2412	-8.19	-9.02	-5.18	0.11		8.00		Pass
11g	6Mbps	2	6	2437	-7.32	-7.85	-4.31	0.11		8.00		Pass
11g	6Mbps	2	11	2462	-8.15	-9.07	-5.14	0.11		8.00		Pass
HT20	MCS0	2	1	2412	-9.89	-9.15	-6.14	0.11		8.00		Pass
HT20	MCS0	2	6	2437	-7.60	-6.36	-3.35	0.11		8.00		Pass
HT20	MCS0	2	11	2462	-8.55	-7.92	-4.91	0.11		8.00		Pass
HT40	MCS0	2	3	2422	-10.01	-11.17	-7.00	0.11		8.00		Pass
HT40	MCS0	2	6	2437	-10.22	-11.50	-7.21	0.11		8.00		Pass
HT40	MCS0	2	9	2452	-12.21	-13.10	-9.20	0.11		8.00		Pass

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

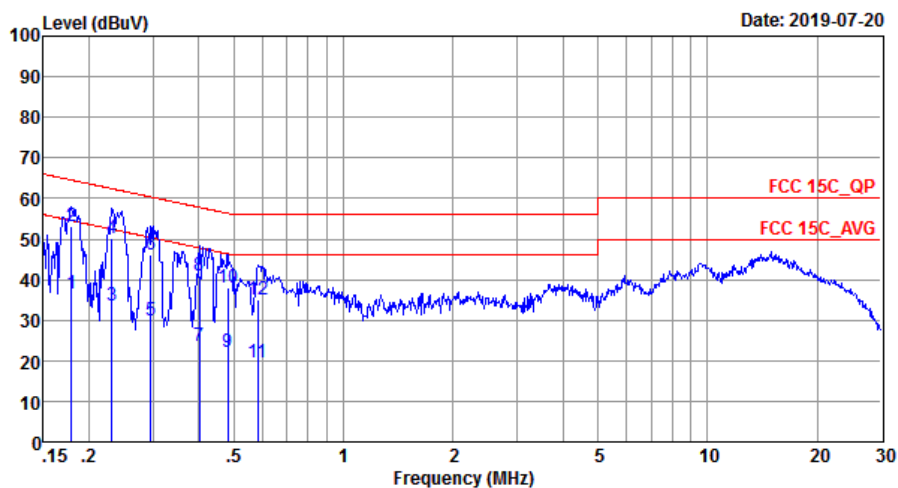


Appendix B. AC Conducted Emission Test Results





Test Engineer :	LiuDaLin	Temperature :	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-SZ
Condition: FCC 15C_QP LISN_20180719_N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	36.59	-17.96	54.55	26.40	0.03	10.16	Average
2 *	0.18	53.29	-11.26	64.55	43.10	0.03	10.16	QP
3	0.23	33.59	-18.80	52.39	23.40	0.03	10.16	Average
4	0.23	50.19	-12.20	62.39	40.00	0.03	10.16	QP
5	0.30	29.80	-20.57	50.37	19.60	0.03	10.17	Average
6	0.30	46.20	-14.17	60.37	36.00	0.03	10.17	QP
7	0.40	23.49	-24.32	47.81	13.30	0.02	10.17	Average
8	0.40	40.79	-17.02	57.81	30.60	0.02	10.17	QP
9	0.48	22.19	-24.13	46.32	12.00	0.02	10.17	Average
10	0.48	38.09	-18.23	56.32	27.90	0.02	10.17	QP
11	0.58	19.40	-26.60	46.00	9.20	0.02	10.18	Average
12	0.58	35.00	-21.00	56.00	24.80	0.02	10.18	QP



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.69	47.79	-26.21	74	46.92	27.07	6.6	32.8	105	61	P	H
		2388.43	39.08	-14.92	54	38.21	27.07	6.6	32.8	105	61	A	H
	*	2412	106.32	-	-	105.38	27.12	6.6	32.78	105	61	P	H
	*	2412	102.63	-	-	101.69	27.12	6.6	32.78	105	61	A	H
		2388.12	46.94	-27.06	74	46.07	27.07	6.6	32.8	119	277	P	V
		2388.43	38.38	-15.62	54	37.51	27.07	6.6	32.8	119	277	A	V
	*	2412	102.64	-	-	101.7	27.12	6.6	32.78	119	277	P	V
	*	2412	99.54	-	-	98.6	27.12	6.6	32.78	119	277	A	V
802.11b CH 06 2437MHz		2389.38	46.35	-27.65	74	45.48	27.07	6.6	32.8	100	60	P	H
		2389.94	36.64	-17.36	54	35.75	27.07	6.6	32.78	100	60	A	H
	*	2437	106.81	-	-	105.78	27.16	6.63	32.76	100	60	P	H
	*	2437	103.86	-	-	102.83	27.16	6.63	32.76	100	60	A	H
		2485.72	47.19	-26.81	74	45.92	27.29	6.7	32.72	100	60	P	H
		2483.5	36.35	-17.65	54	35.08	27.29	6.7	32.72	100	60	A	H
		2386.02	45.86	-28.14	74	45.02	27.07	6.57	32.8	142	279	P	V
		2389.94	35.95	-18.05	54	35.06	27.07	6.6	32.78	142	279	A	V
	*	2437	101.73	-	-	100.7	27.16	6.63	32.76	142	279	P	V
	*	2437	98.7	-	-	97.67	27.16	6.63	32.76	142	279	A	V
		2488.03	47.85	-26.15	74	46.51	27.33	6.73	32.72	142	279	P	V
		2483.62	35.81	-18.19	54	34.54	27.29	6.7	32.72	142	279	A	V



802.11b CH 11 2462MHz	*	2462	107.62	-	-	106.45	27.24	6.67	32.74	123	60	P	H
	*	2462	104.41	-	-	103.24	27.24	6.67	32.74	123	60	A	H
		2484.12	48.1	-25.9	74	46.83	27.29	6.7	32.72	123	60	P	H
		2484.72	38.38	-15.62	54	37.11	27.29	6.7	32.72	123	60	A	H
	*	2462	103.09	-	-	101.92	27.24	6.67	32.74	150	291	P	V
	*	2462	99.92	-	-	98.75	27.24	6.67	32.74	150	291	A	V
		2486.88	47.33	-26.67	74	46.06	27.29	6.7	32.72	150	291	P	V
		2484.68	36.66	-17.34	54	35.39	27.29	6.7	32.72	150	291	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	42.17	-31.83	74	58.97	31.03	9.65	57.48	185	255	P	H
		4824	41.68	-32.32	74	58.48	31.03	9.65	57.48	185	255	P	V
802.11b CH 06 2437MHz		4874	41.01	-32.99	74	57.76	31.06	9.71	57.52	165	106	P	H
		7311	45.25	-28.75	74	56.24	35.92	12.01	58.92	174	100	P	H
		4874	41.29	-32.71	74	58.04	31.06	9.71	57.52	165	106	P	V
		7311	45.89	-28.11	74	56.88	35.92	12.01	58.92	174	100	P	V
802.11b CH 11 2462MHz		4924	42	-32	74	58.68	31.1	9.77	57.55	150	285	P	H
		7386	45.87	-28.13	74	56.6	36.15	12.08	58.96	155	274	P	H
		4924	40.57	-33.43	74	57.25	31.1	9.77	57.55	150	285	P	V
		7386	46.06	-27.94	74	56.79	36.15	12.08	58.96	155	274	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2390	60.43	-13.57	74	59.54	27.07	6.6	32.78	122	42	P	H
		2390	50.59	-3.41	54	49.7	27.07	6.6	32.78	122	42	A	H
	*	2412	106.62	-	-	105.68	27.12	6.6	32.78	122	42	P	H
	*	2412	98.42	-	-	97.48	27.12	6.6	32.78	122	42	A	H
		2389.90	56.78	-17.22	74	55.89	27.07	6.6	32.78	134	298	P	V
		2390	45.68	-8.32	54	44.79	27.07	6.6	32.78	134	298	A	V
	*	2412	101.01	-	-	100.07	27.12	6.6	32.78	134	298	P	V
	*	2412	93.4	-	-	92.46	27.12	6.6	32.78	134	298	A	V
802.11g CH 06 2437MHz		2389.24	49.93	-24.07	74	49.06	27.07	6.6	32.8	122	42	P	H
		2389.94	39.72	-14.28	54	38.83	27.07	6.6	32.78	122	42	A	H
	*	2437	107.3	-	-	106.23	27.2	6.63	32.76	122	42	P	H
	*	2437	99.85	-	-	98.78	27.2	6.63	32.76	122	42	A	H
		2483.76	48.88	-25.12	74	47.61	27.29	6.7	32.72	122	42	P	H
		2483.5	38.87	-15.13	54	37.6	27.29	6.7	32.72	122	42	A	H
		2387.42	47.53	-26.47	74	46.69	27.07	6.57	32.8	134	298	P	V
		2389.94	37.41	-16.59	54	36.52	27.07	6.6	32.78	134	298	A	V
	*	2437	103.14	-	-	102.07	27.2	6.63	32.76	134	298	P	V
	*	2437	94.94	-	-	93.87	27.2	6.63	32.76	134	298	A	V
		2498.88	46.69	-27.31	74	45.33	27.33	6.73	32.7	134	298	P	V
		2483.5	37.02	-16.98	54	35.75	27.29	6.7	32.72	134	298	A	V



802.11g CH 11 2462MHz	*	2462	107.65	-	-	106.48	27.24	6.67	32.74	122	42	P	H
	*	2462	99.73	-	-	98.56	27.24	6.67	32.74	122	42	A	H
		2483.56	59.84	-14.16	74	58.57	27.29	6.7	32.72	122	42	P	H
		2483.5	49.98	-4.02	54	48.71	27.29	6.7	32.72	122	42	A	H
	*	2462	102.25	-	-	101.08	27.24	6.67	32.74	130	258	P	V
	*	2462	94.76	-	-	93.59	27.24	6.67	32.74	130	258	A	V
		2483.76	54.58	-19.42	74	53.31	27.29	6.7	32.72	130	258	P	V
		2483.52	43.65	-10.35	54	42.38	27.29	6.7	32.72	130	258	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	40.89	-33.11	74	57.69	31.03	9.65	57.48	185	255	P	H
		4824	41.59	-32.41	74	58.39	31.03	9.65	57.48	185	255	P	V
802.11g CH 06 2437MHz		4874	40.25	-33.75	74	57	31.06	9.71	57.52	165	106	P	H
		7311	45.87	-28.13	74	56.86	35.92	12.01	58.92	174	100	P	H
		4874	40.84	-33.16	74	57.59	31.06	9.71	57.52	165	106	P	V
		7311	45.87	-28.13	74	56.86	35.92	12.01	58.92	174	100	P	V
802.11g CH 11 2462MHz		4924	40.51	-33.49	74	57.19	31.1	9.77	57.55	150	285	P	H
		7386	45.3	-28.7	74	56.03	36.15	12.08	58.96	155	274	P	H
		4924	40.24	-33.76	74	56.92	31.1	9.77	57.55	160	360	P	V
		7386	45.5	-28.5	74	56.23	36.15	12.08	58.96	155	274	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.91	60.96	-13.04	74	60.07	27.07	6.6	32.78	122	42	P	H
		2390	49.77	-4.23	54	48.88	27.07	6.6	32.78	122	42	A	H
	*	2412	105.02	-	-	104.08	27.12	6.6	32.78	122	42	P	H
	*	2412	97.34	-	-	96.4	27.12	6.6	32.78	122	42	A	H
		2390	56.98	-17.02	74	56.09	27.07	6.6	32.78	130	258	P	V
		2390	46.01	-7.99	54	45.12	27.07	6.6	32.78	130	258	A	V
	*	2412	99.47	-	-	98.53	27.12	6.6	32.78	130	258	P	V
	*	2412	92.01	-	-	91.07	27.12	6.6	32.78	130	258	A	V
802.11n HT20 CH 06 2437MHz		2389.24	49.96	-24.04	74	49.09	27.07	6.6	32.8	122	42	P	H
		2389.94	39.73	-14.27	54	38.84	27.07	6.6	32.78	122	42	A	H
	*	2437	106.73	-	-	105.66	27.2	6.63	32.76	122	42	P	H
	*	2437	99.5	-	-	98.43	27.2	6.63	32.76	122	42	A	H
		2483.83	48.7	-25.3	74	47.43	27.29	6.7	32.72	122	42	P	H
		2483.5	38.87	-15.13	54	37.6	27.29	6.7	32.72	122	42	A	H
		2387.84	47.1	-26.9	74	46.23	27.07	6.6	32.8	130	258	P	V
		2389.94	37.26	-16.74	54	36.37	27.07	6.6	32.78	130	258	A	V
	*	2437	101.64	-	-	100.57	27.2	6.63	32.76	130	258	P	V
	*	2437	93.91	-	-	92.84	27.2	6.63	32.76	130	258	A	V
		2493.14	46.99	-27.01	74	45.63	27.33	6.73	32.7	130	258	P	V
		2483.76	36.83	-17.17	54	35.56	27.29	6.7	32.72	130	258	A	V



802.11n HT20 CH 11 2462MHz	*	2462	106.32	-	-	105.15	27.24	6.67	32.74	122	42	P	H
	*	2462	98.48	-	-	97.31	27.24	6.67	32.74	122	42	A	H
		2483.8	61.59	-12.41	74	60.32	27.29	6.7	32.72	122	42	P	H
		2483.52	50.57	-3.43	54	49.3	27.29	6.7	32.72	122	42	A	H
	*	2462	102.04	-	-	100.87	27.24	6.67	32.74	130	258	P	V
		2462	94.71	-	-	93.54	27.24	6.67	32.74	130	258	A	V
		2483.52	57.21	-16.79	74	55.94	27.29	6.7	32.72	130	258	P	V
		2483.52	46.66	-7.34	54	45.39	27.29	6.7	32.72	130	258	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	40.36	-33.64	74	57.16	31.03	9.65	57.48	185	255	P	H
		4824	41.35	-32.65	74	58.15	31.03	9.65	57.48	185	255	P	V
802.11n HT20 CH 06 2437MHz		4874	40.44	-33.56	74	57.19	31.06	9.71	57.52	165	106	P	H
		7311	45.43	-28.57	74	56.42	35.92	12.01	58.92	174	100	P	H
		4874	41.05	-32.95	74	57.8	31.06	9.71	57.52	165	106	P	V
		7311	46.32	-27.68	74	57.31	35.92	12.01	58.92	174	100	P	V
802.11n HT20 CH 11 2462MHz		4924	40.45	-33.55	74	57.13	31.1	9.77	57.55	150	285	P	H
		7386	46.62	-27.38	74	57.35	36.15	12.08	58.96	155	274	P	H
		4924	40.34	-33.66	74	57.02	31.1	9.77	57.55	150	285	P	V
		7386	45.61	-28.39	74	56.34	36.15	12.08	58.96	155	274	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.94	58.31	-15.69	74	57.42	27.07	6.6	32.78	122	42	P	H
		2389.94	50.68	-3.32	54	49.79	27.07	6.6	32.78	122	42	A	H
	*	2422	103.78	-	-	102.75	27.16	6.63	32.76	122	42	P	H
	*	2422	96.66	-	-	95.63	27.16	6.63	32.76	122	42	A	H
		2484.39	47.77	-26.23	74	46.5	27.29	6.7	32.72	122	42	P	H
		2483.69	39.58	-14.42	54	38.31	27.29	6.7	32.72	122	42	A	H
		2389.66	53.9	-20.1	74	53.03	27.07	6.6	32.8	134	298	P	V
		2389.94	46.13	-7.87	54	45.24	27.07	6.6	32.78	134	298	A	V
	*	2422	99.77	-	-	98.74	27.16	6.63	32.76	134	298	P	V
	*	2422	92.12	-	-	91.09	27.16	6.63	32.76	134	298	A	V
		2497.55	46.66	-27.34	74	45.3	27.33	6.73	32.7	134	298	P	V
		2483.5	38	-16	54	36.73	27.29	6.7	32.72	134	298	A	V
802.11n HT40 CH 06 2437MHz		2389.94	58.96	-15.04	74	58.07	27.07	6.6	32.78	122	42	P	H
		2389.94	48.37	-5.63	54	47.48	27.07	6.6	32.78	122	42	A	H
	*	2437	103.73	-	-	102.66	27.2	6.63	32.76	122	42	P	H
	*	2437	96.38	-	-	95.31	27.2	6.63	32.76	122	42	A	H
		2483.55	56.43	-17.57	74	55.16	27.29	6.7	32.72	122	42	P	H
		2483.5	47.28	-6.72	54	46.01	27.29	6.7	32.72	122	42	A	H
		2389.94	55.43	-18.57	74	54.54	27.07	6.6	32.78	130	258	P	V
		2389.8	44.53	-9.47	54	43.64	27.07	6.6	32.78	130	258	A	V
	*	2437	99.59	-	-	98.52	27.2	6.63	32.76	130	258	P	V
	*	2437	91.95	-	-	90.88	27.2	6.63	32.76	130	258	A	V
		2483.69	51.91	-22.09	74	50.64	27.29	6.7	32.72	130	258	P	V
		2483.69	42.25	-11.75	54	40.98	27.29	6.7	32.72	130	258	A	V



802.11n HT40 CH 09 2452MHz		2389.66	47.76	-26.24	74	46.89	27.07	6.6	32.8	122	42	P	H
		2389.94	39.45	-14.55	54	38.56	27.07	6.6	32.78	122	42	A	H
	*	2452	101.76	-	-	100.63	27.2	6.67	32.74	122	42	P	H
	*	2452	94.23	-	-	93.1	27.2	6.67	32.74	122	42	A	H
		2484.32	57.97	-16.03	74	56.7	27.29	6.7	32.72	122	42	P	H
		2483.5	50.48	-3.52	54	49.21	27.29	6.7	32.72	122	42	A	H
		2353.26	46.9	-27.1	74	46.2	26.99	6.53	32.82	130	258	P	V
		2389.94	37.86	-16.14	54	36.97	27.07	6.6	32.78	130	258	A	V
	*	2452	96.72	-	-	95.59	27.2	6.67	32.74	130	258	P	V
	*	2452	89.19	-	-	88.06	27.2	6.67	32.74	130	258	A	V
		2483.55	53.49	-20.51	74	52.22	27.29	6.7	32.72	130	258	P	V
		2483.5	45.88	-8.12	54	44.61	27.29	6.7	32.72	130	258	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4844	41.08	-32.92	74	57.85	31.04	9.68	57.49	150	350	P	H
HT40		7266	45.89	-28.11	74	56.98	35.83	11.99	58.91	200	360	P	H
CH 03		4844	41.45	-32.55	74	58.22	31.04	9.68	57.49	150	350	P	V
2422MHz		7266	46.64	-27.36	74	57.73	35.83	11.99	58.91	200	360	P	V
802.11n		4874	40.69	-33.31	74	57.44	31.06	9.71	57.52	165	230	P	H
HT40		7311	45.41	-28.59	74	56.4	35.92	12.01	58.92	186	323	P	H
CH 06		4874	41.13	-32.87	74	57.88	31.06	9.71	57.52	165	230	P	V
2437MHz		7311	46.97	-27.03	74	57.96	35.92	12.01	58.92	186	323	P	V
802.11n		4904	40.6	-33.4	74	57.31	31.09	9.74	57.54	150	360	P	H
HT40		7356	46.61	-27.39	74	57.43	36.06	12.06	58.94	165	335	P	H
CH 09		4904	40.9	-33.1	74	57.61	31.09	9.74	57.54	150	360	P	V
2452MHz		7356	46.73	-27.27	74	57.55	36.06	12.06	58.94	165	335	P	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 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		30	22.77	-17.23	40	28.71	24.8	0.56	31.3	100	222	P	H
		107.6	21.73	-21.77	43.5	35.64	16.6	1.07	31.58	-	-	P	H
		127	21.88	-21.62	43.5	34.78	17.43	1.16	31.49	-	-	P	H
		404.42	24.55	-21.45	46	31.93	21.9	2.13	31.41	-	-	P	H
		515.97	26.8	-19.2	46	31.4	24.2	2.44	31.24	-	-	P	H
		965.08	29.51	-24.49	54	27.32	30.04	3.42	31.27	-	-	P	H
		30	30.79	-9.21	40	36.73	24.8	0.56	31.3	100	159	P	V
		61.04	24.91	-15.09	40	43.83	11.88	0.8	31.6	-	-	P	V
		130.88	22.88	-20.62	43.5	35.72	17.45	1.19	31.48	-	-	P	V
		276.38	20.24	-25.76	46	30.77	19.27	1.74	31.54	-	-	P	V
		618.79	27.12	-18.88	46	29.97	25.97	2.71	31.53	-	-	P	V
		899.12	29.24	-16.76	46	28.42	29	3.32	31.5	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(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. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

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) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

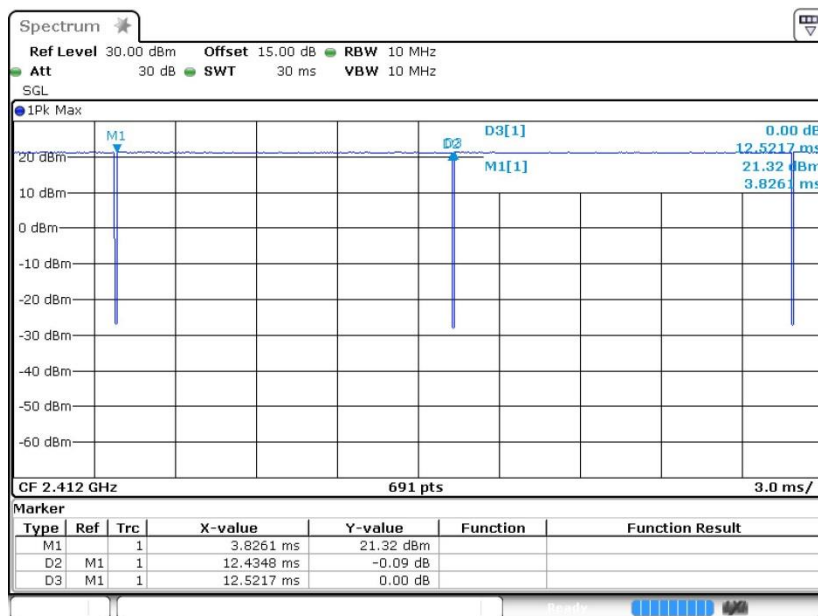
Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

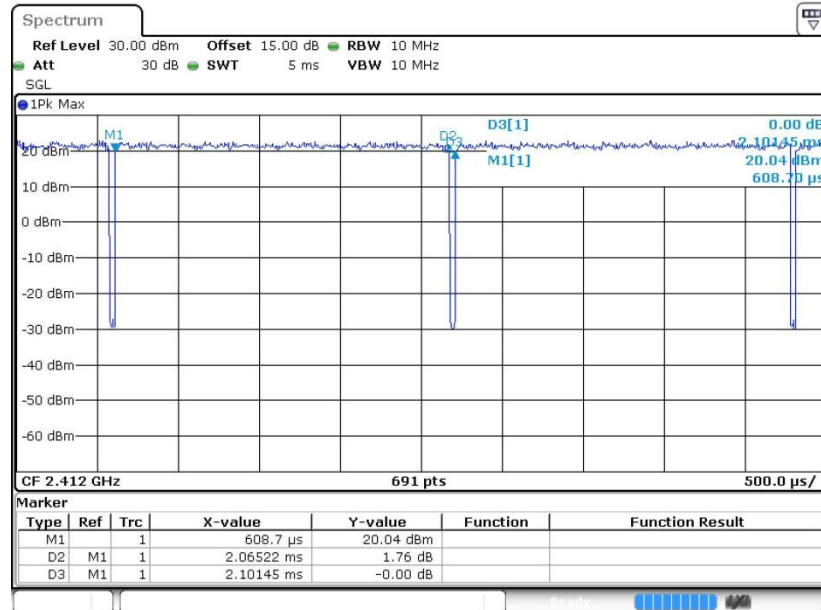
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b for Ant 1	99.31	-	-	10Hz
802.11g for Ant 1	98.28	-	-	10Hz
802.11n HT20 for Ant 1	98.16	-	-	10Hz
802.11n HT40 for Ant 1	94.93	0.949	1.053	3KHz
802.11b for Ant 2	99.25	-	-	10Hz
802.11g for Ant 2	98.28	-	-	10Hz
802.11n HT20 for Ant 2	98.15	-	-	10Hz
802.11n HT40 for Ant 2	94.93	0.949	1.053	3KHz

For Ant 1:

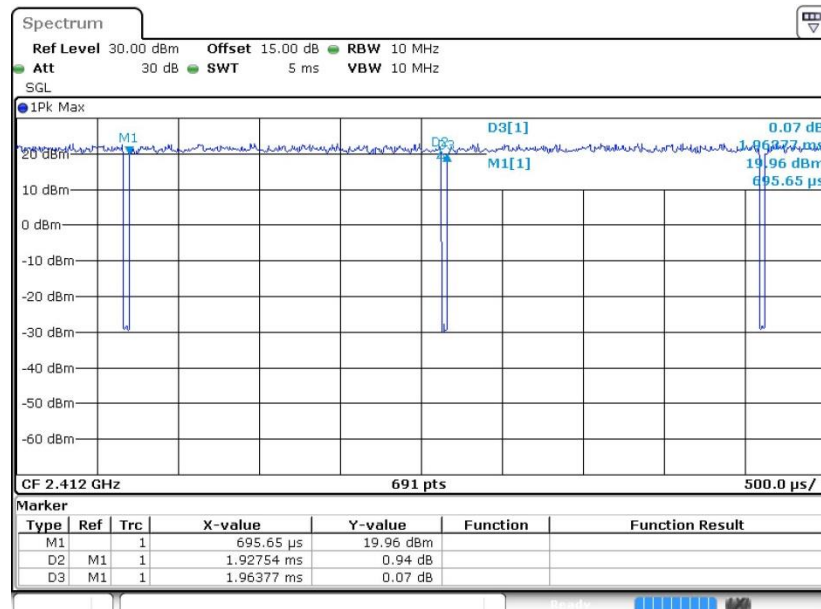
802.11b



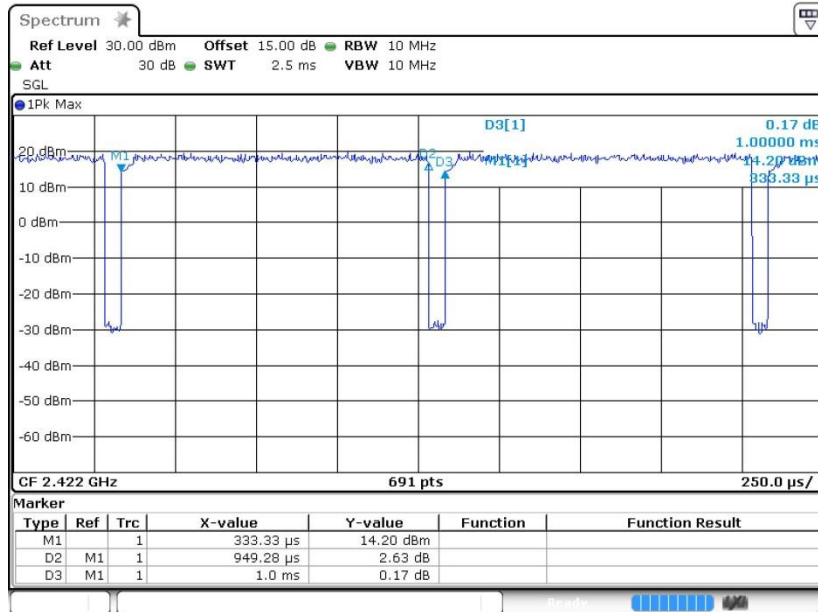
802.11g



802.11n HT20

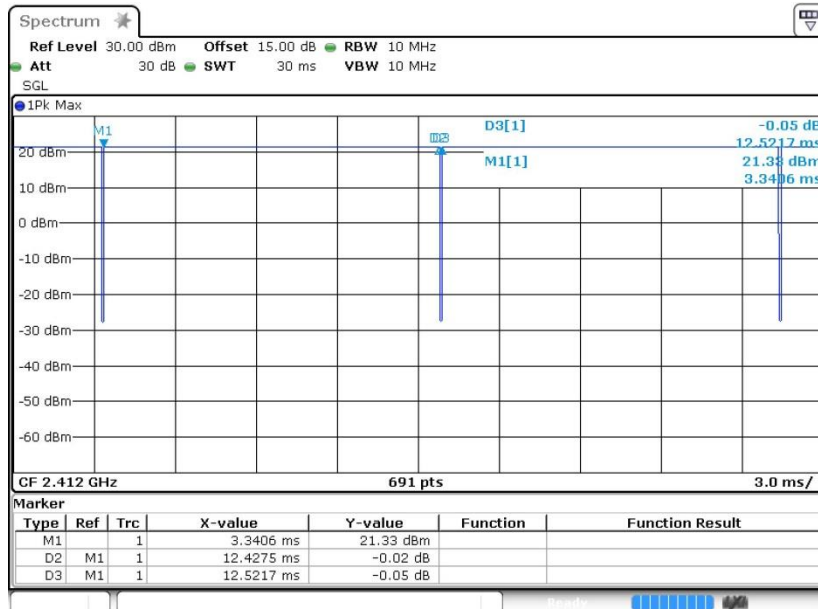


802.11n HT40



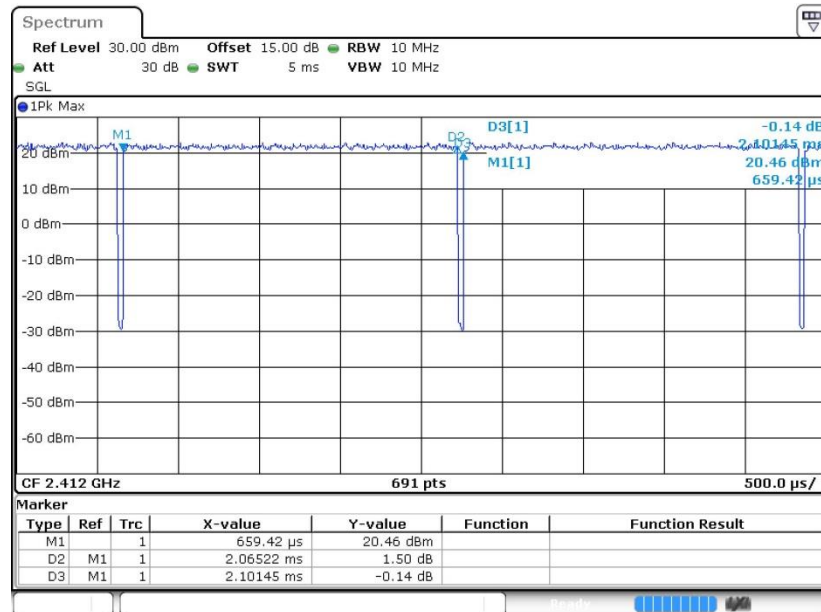
For Ant 2:

802.11b

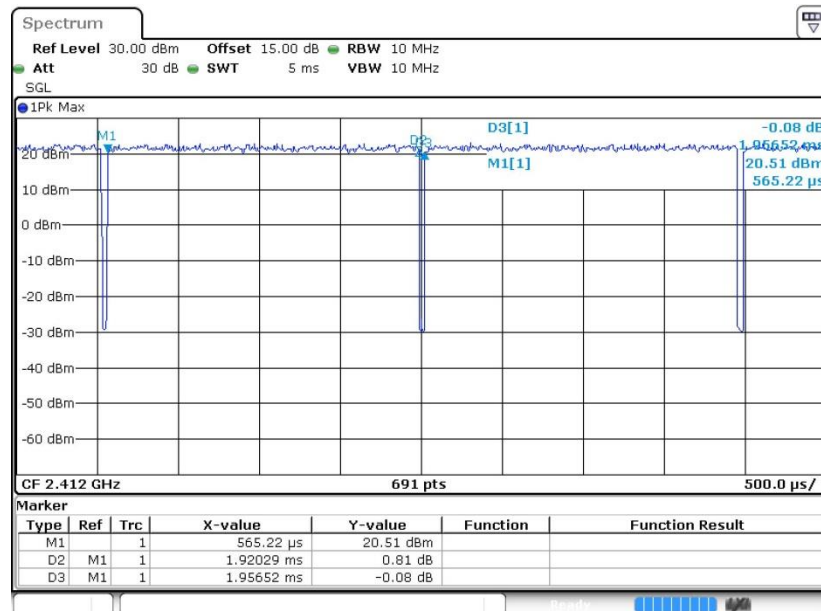




802.11g



802.11n HT20





802.11n HT40

