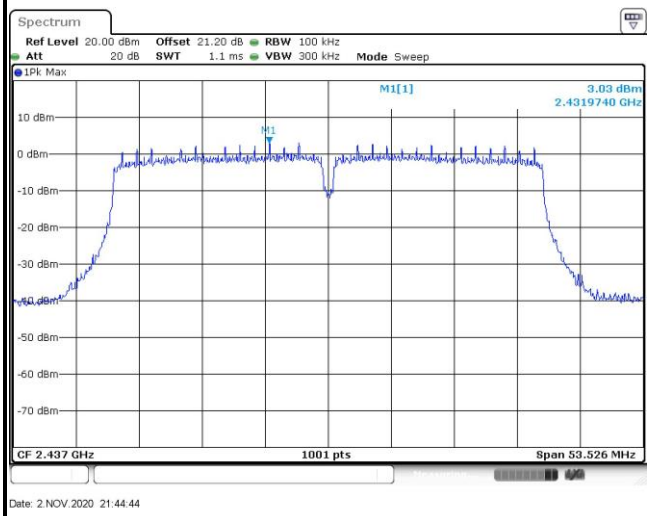
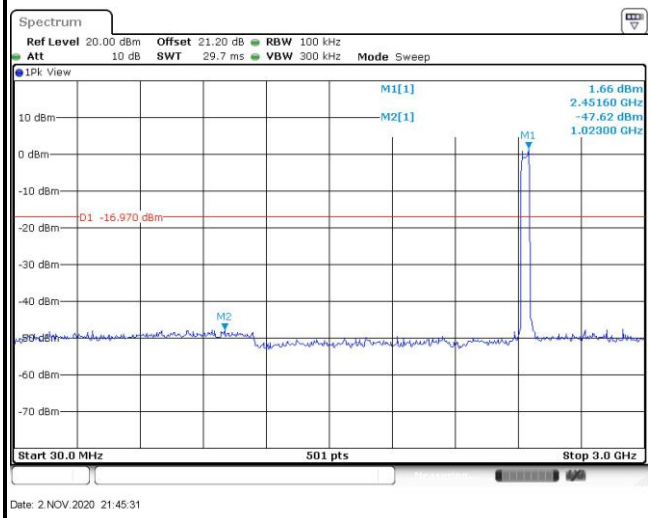
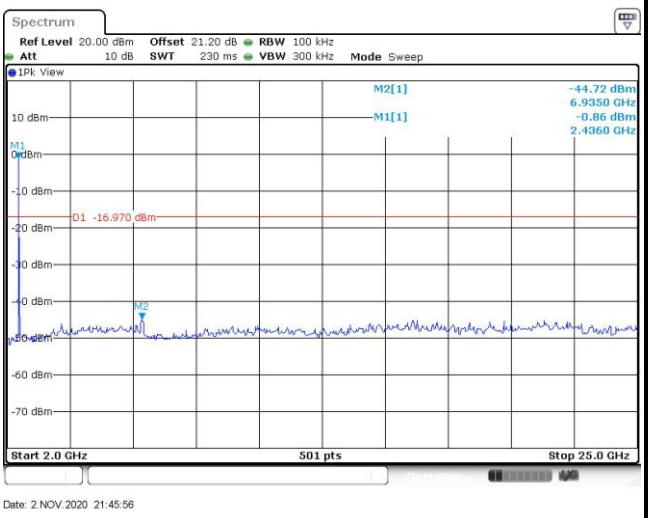
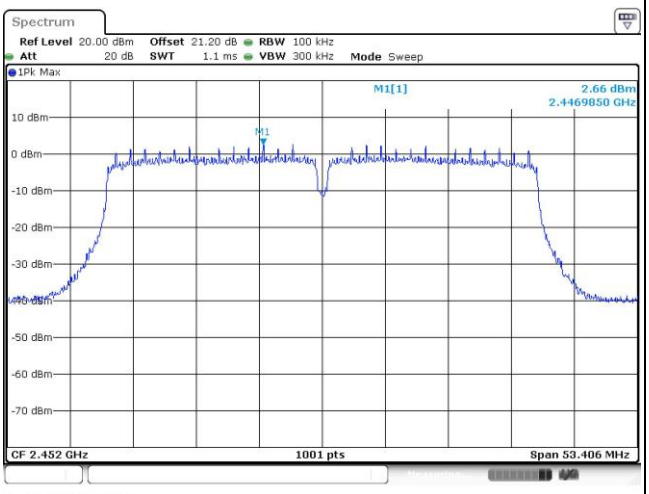
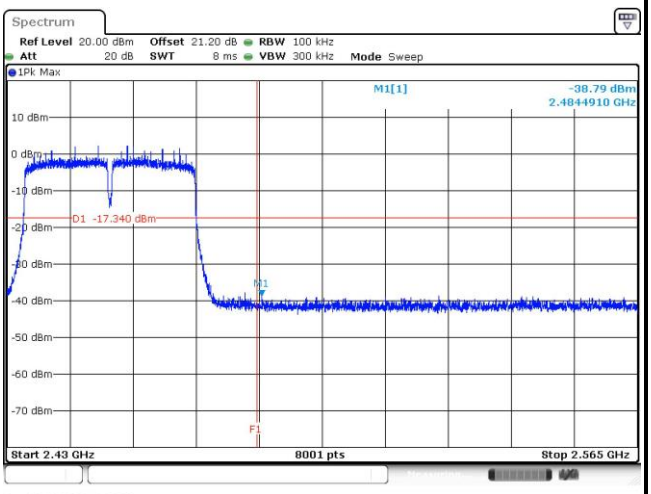
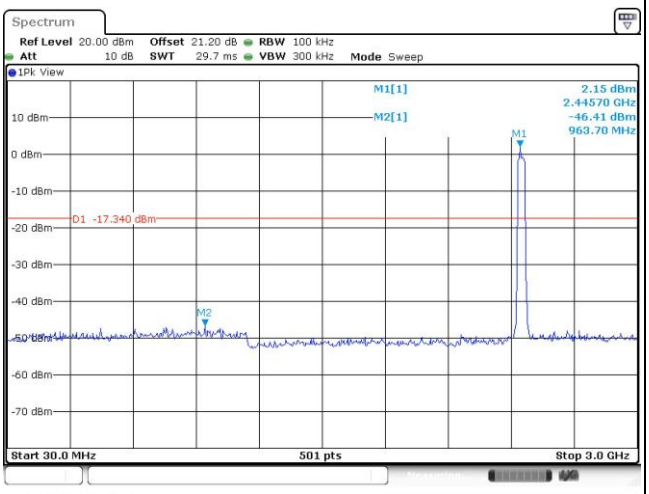
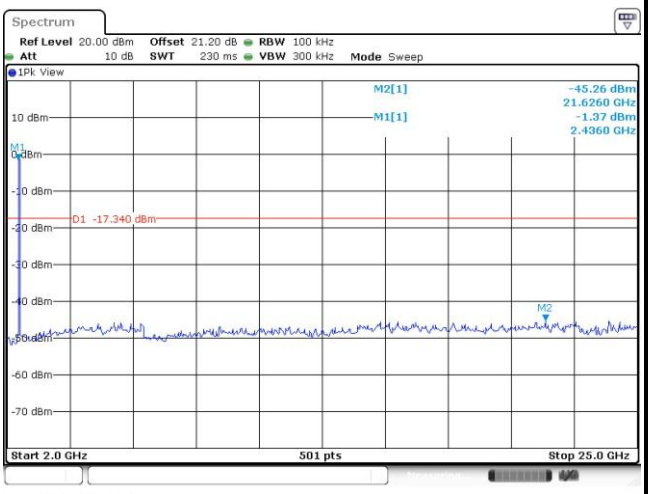
Test Mode :	802.11n HT40	Test Channel :	06

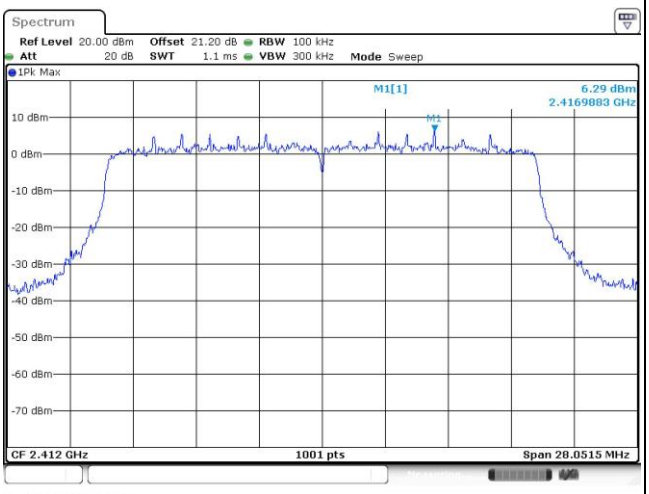
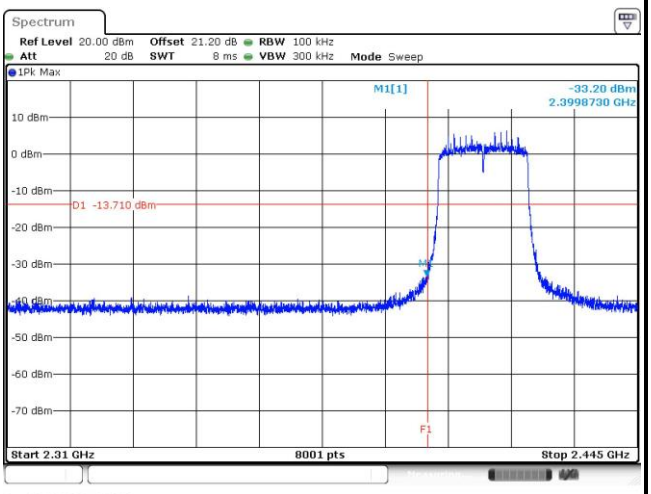
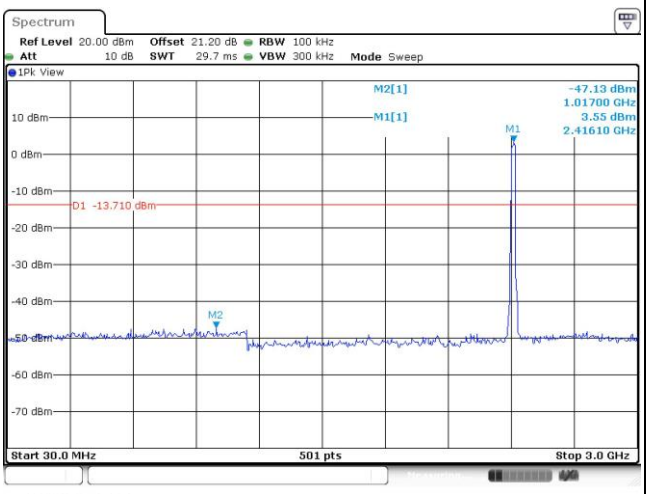
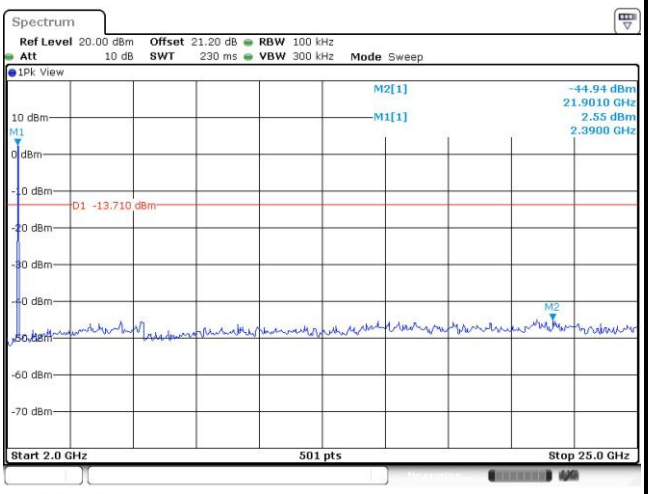
100kHz PSD reference Level	Channel Plot
	

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

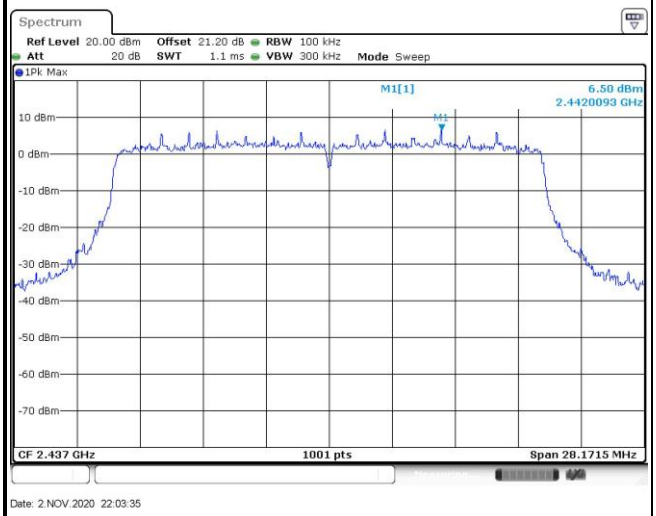
Test Mode :	802.11n HT40	Test Channel :	09

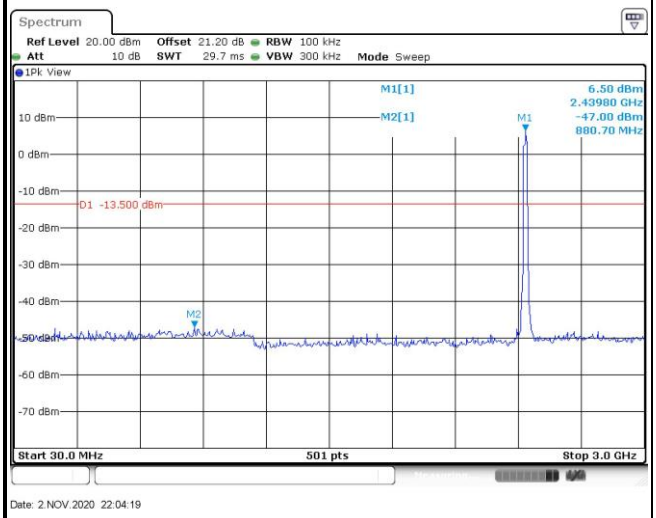
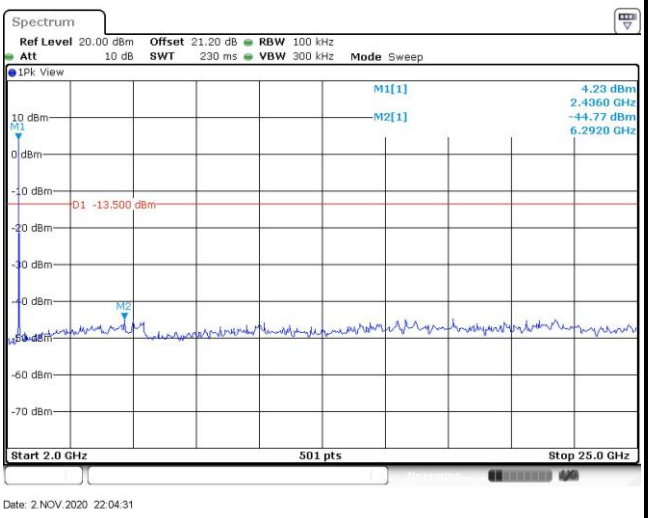
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11ax HE20	Test Channel :	01

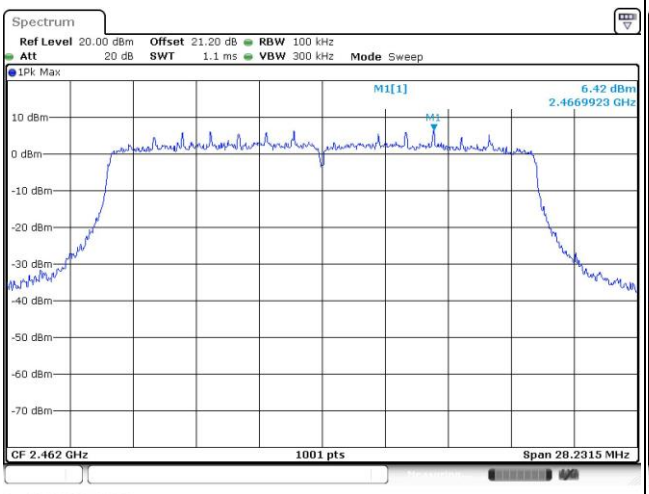
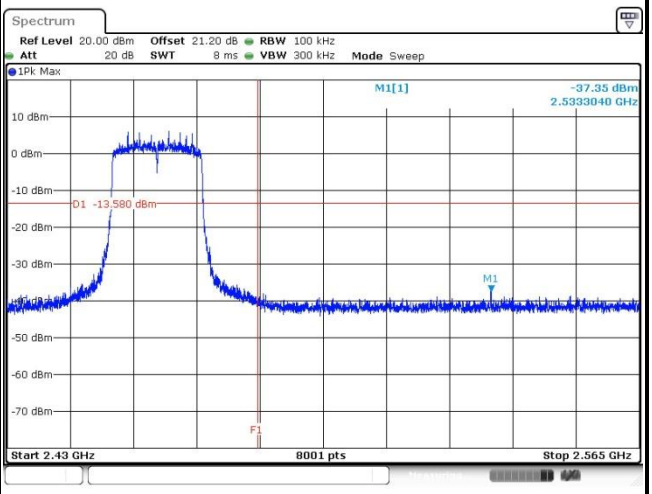
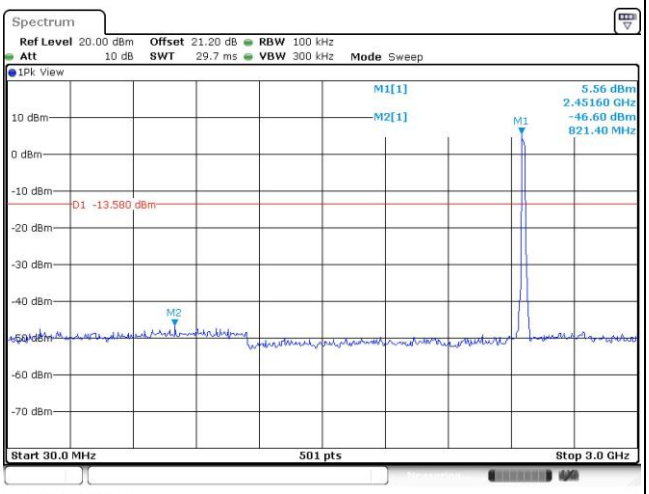
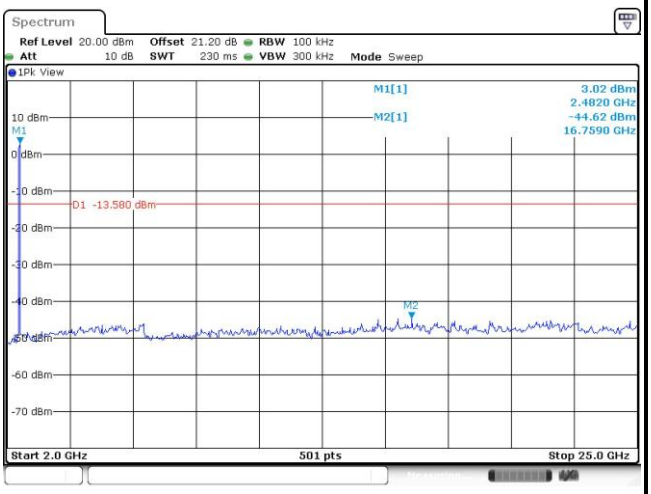
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11ax HE20	Test Channel :	06

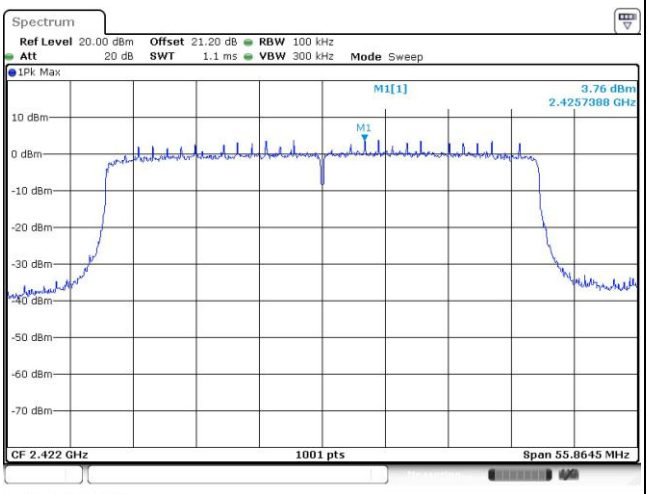
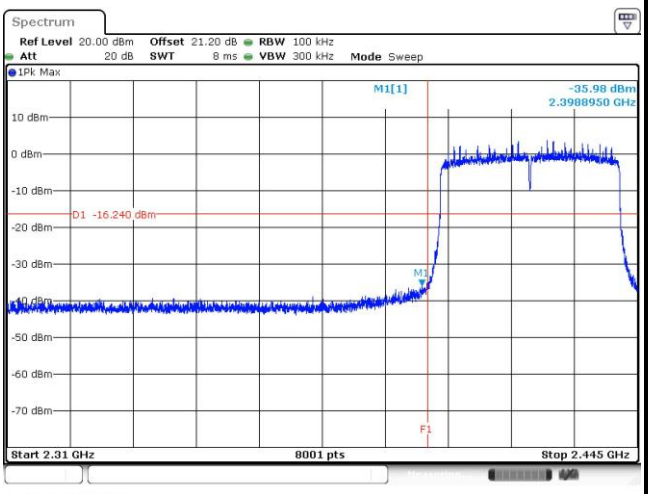
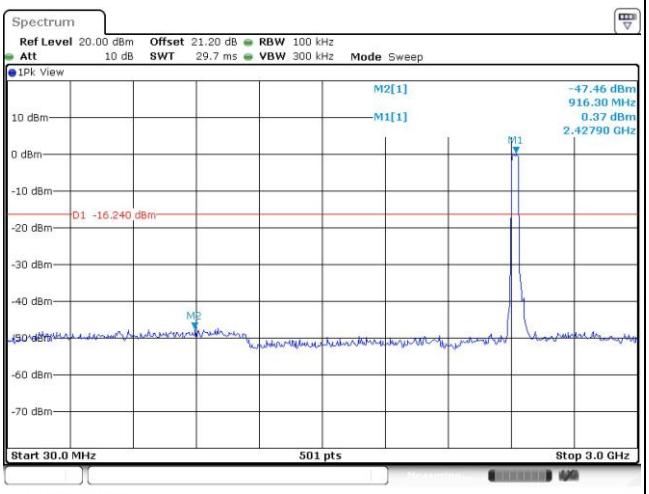
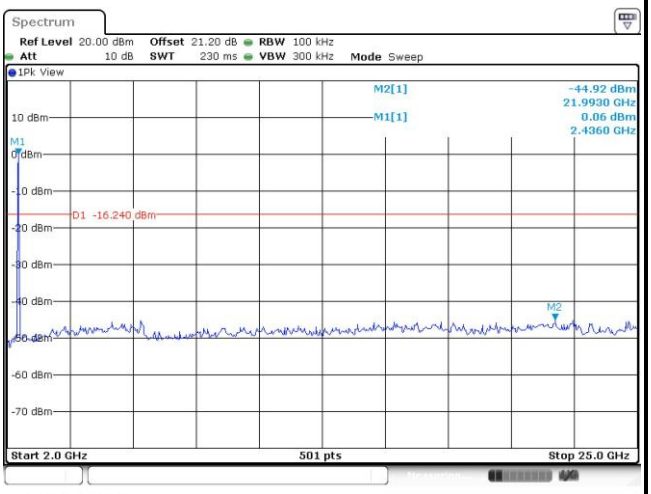
100kHz PSD reference Level	Channel Plot
	

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

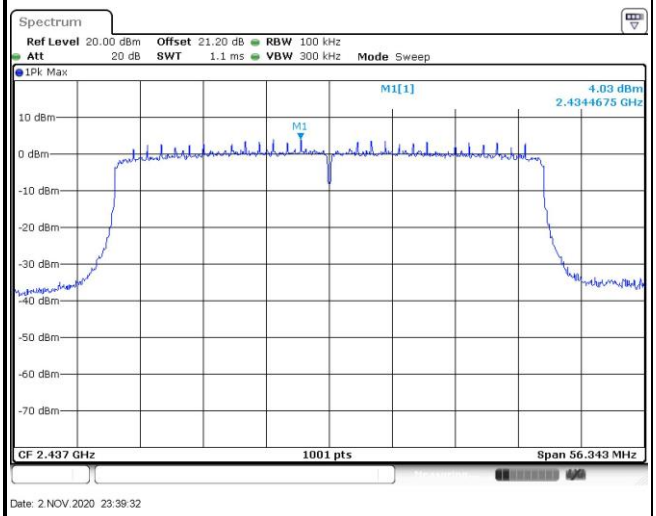
Test Mode :	802.11ax HE20	Test Channel :	11

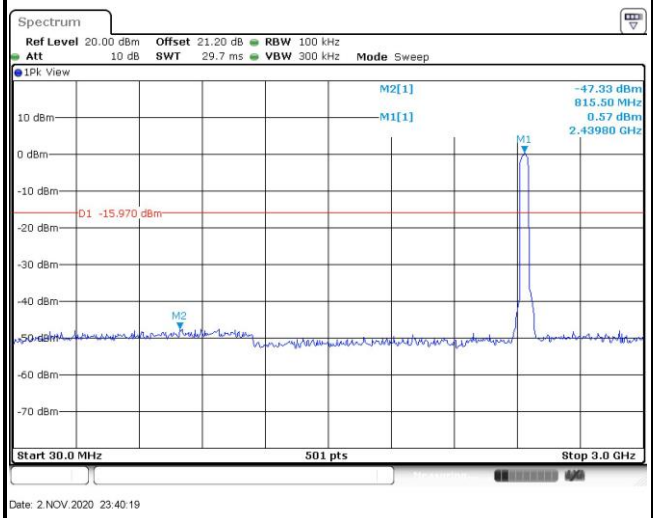
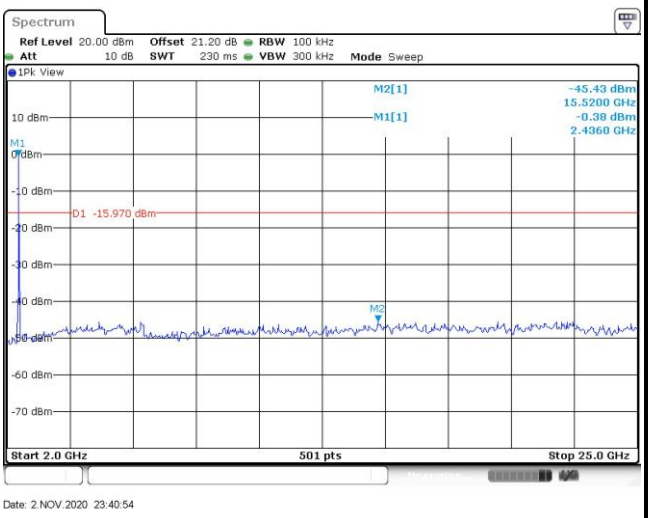
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11ax HE40	Test Channel :	03

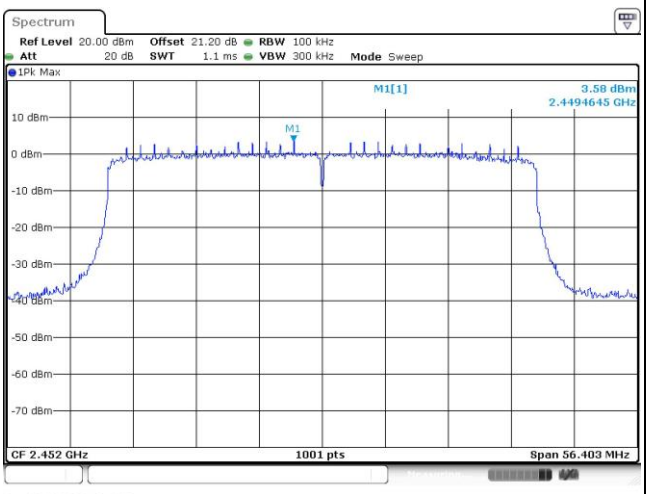
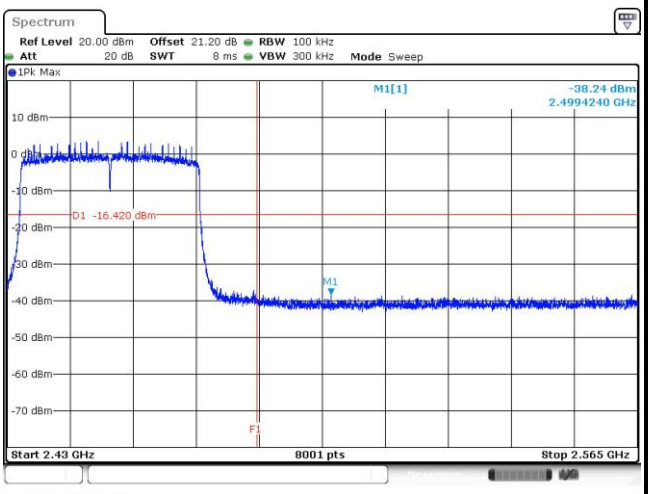
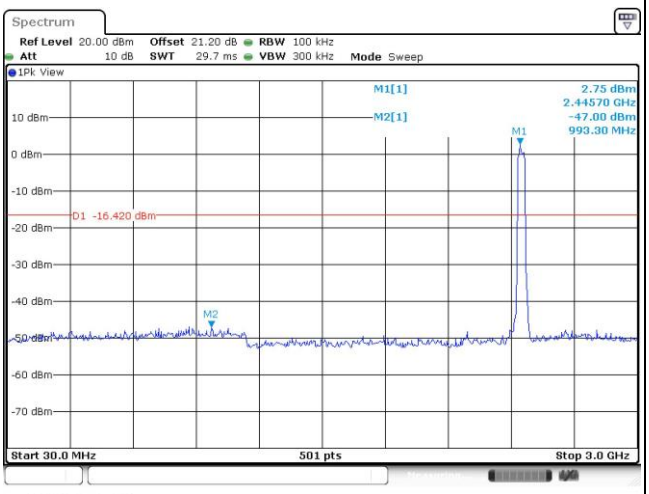
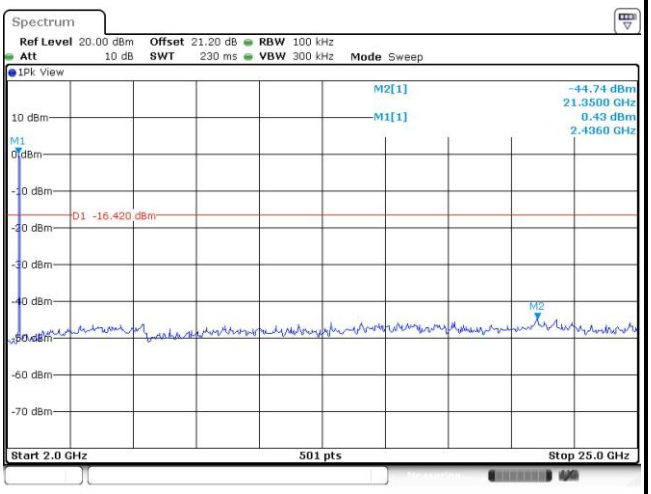
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11ax HE40	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

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

Test Mode :	802.11ax HE40	Test Channel :	09

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

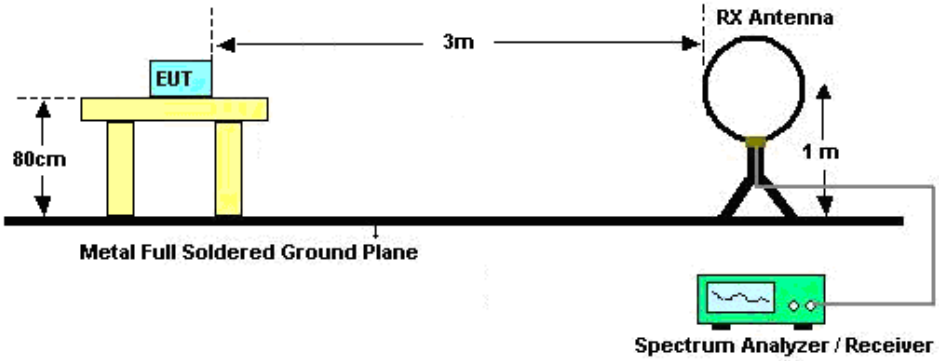
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

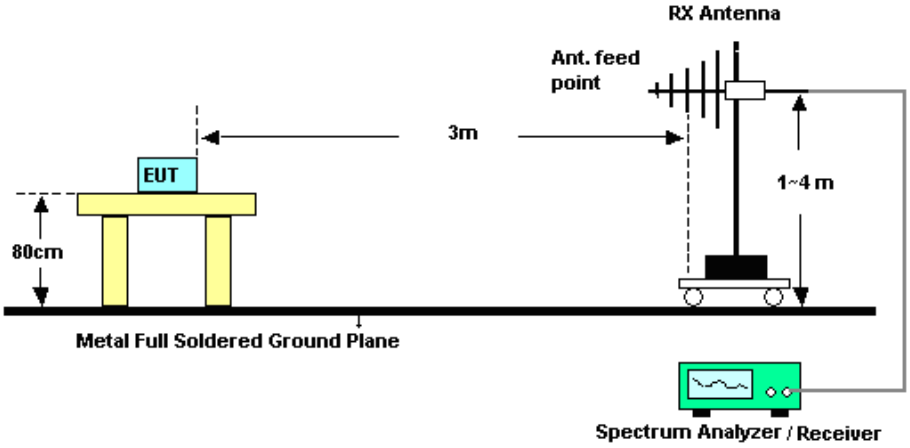
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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

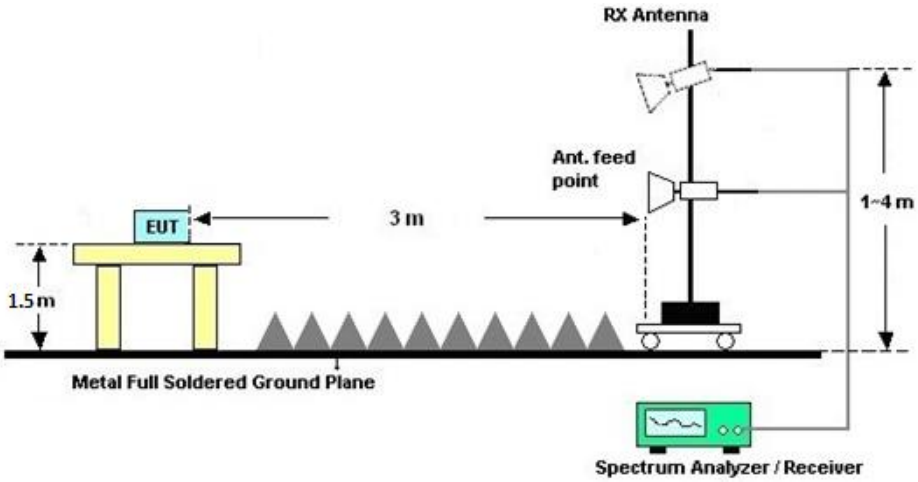
For radiated emissions below 30MHz



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 (dBμV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

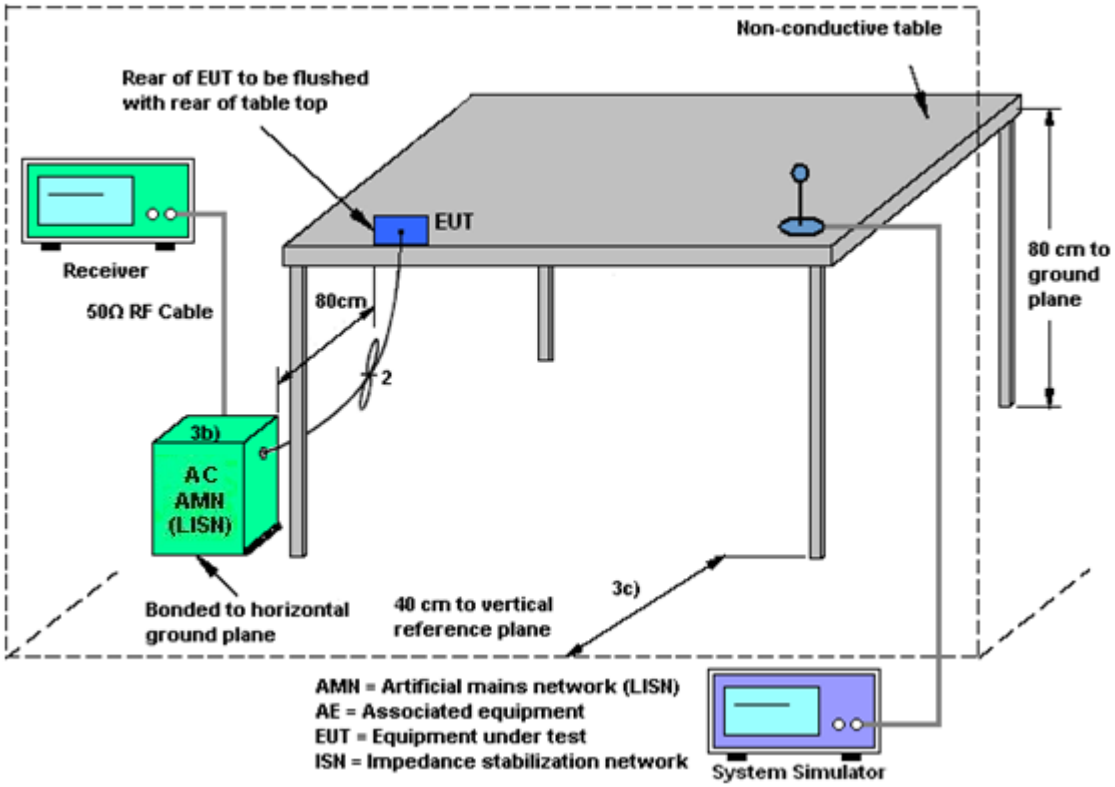
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

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.

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	-2.00	-2.00	-2.00	1.01	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. 17, 2020	Nov. 02, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 26, 2019	Nov. 02, 2020	Dec. 25, 2020	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 26, 2019	Nov. 02, 2020	Dec. 25, 2020	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Dec. 16, 2020	Jul. 20, 2021	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Dec. 16, 2020	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Dec. 16, 2020	Jul. 14, 2021	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Dec. 16, 2020	Jul. 24, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21. 2020	Dec. 16, 2020	Jul. 20. 2021	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2020	Dec. 16, 2020	Apr. 22, 2021	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 16, 2020	Dec. 16, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2020	Dec. 16, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 16, 2020	Dec. 16, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Dec. 16, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 16, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 16, 2020	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2019	Dec. 02, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Dec. 26, 2019	Dec. 02, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Dec. 02, 2020	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 21, 2020	Dec. 02, 2020	Jul. 20, 2021	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))	**2.7 dB**

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

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

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

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

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

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

Appendix A. Conducted Test Results

Report Number : FR0O2801-02C

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2020/11/2	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
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	2	1	2412	13.14	13.19	8.05	8.05	0.50	Pass
11b	1Mbps	2	6	2437	13.19	13.14	8.05	8.07	0.50	Pass
11b	1Mbps	2	11	2462	13.09	13.09	8.05	8.05	0.50	Pass
11g	6Mbps	2	1	2412	16.43	16.38	16.30	16.30	0.50	Pass
11g	6Mbps	2	6	2437	16.43	16.38	16.30	16.32	0.50	Pass
11g	6Mbps	2	11	2462	16.38	16.38	16.30	16.32	0.50	Pass
HT20	MCS0	2	1	2412	17.58	17.58	17.28	17.16	0.50	Pass
HT20	MCS0	2	6	2437	17.58	17.58	17.52	17.52	0.50	Pass
HT20	MCS0	2	11	2462	17.53	17.53	17.28	17.54	0.50	Pass
HT40	MCS0	2	3	2422	36.16	36.26	35.64	35.64	0.50	Pass
HT40	MCS0	2	6	2437	36.16	36.26	35.88	35.68	0.50	Pass
HT40	MCS0	2	9	2452	36.16	36.26	35.88	35.60	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
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	2	1	2412	16.48	16.16	19.33	30.00		-2.00		17.33		36.00		Pass
11b	1Mbps	2	6	2437	16.24	16.46	19.36	30.00		-2.00		17.36		36.00		Pass
11b	1Mbps	2	11	2462	16.38	16.30	19.35	30.00		-2.00		17.35		36.00		Pass
11g	6Mbps	2	1	2412	18.96	19.56	22.28	30.00		-2.00		20.28		36.00		Pass
11g	6Mbps	2	6	2437	19.38	19.89	22.65	30.00		-2.00		20.65		36.00		Pass
11g	6Mbps	2	11	2462	19.30	19.93	22.64	30.00		-2.00		20.64		36.00		Pass
HT20	MCS0	2	1	2412	19.12	19.35	22.25	30.00		-2.00		20.25		36.00		Pass
HT20	MCS0	2	6	2437	18.80	19.48	22.16	30.00		-2.00		20.16		36.00		Pass
HT20	MCS0	2	11	2462	18.97	19.57	22.29	30.00		-2.00		20.29		36.00		Pass
HT40	MCS0	2	3	2422	17.56	18.44	21.03	30.00		-2.00		19.03		36.00		Pass
HT40	MCS0	2	6	2437	17.85	18.53	21.21	30.00		-2.00		19.21		36.00		Pass
HT40	MCS0	2	9	2452	17.47	18.42	20.98	30.00		-2.00		18.98		36.00		Pass
VHT20	MCS0	2	1	2412	18.64	19.34	22.01	30.00		-2.00		20.01		36.00		Pass
VHT20	MCS0	2	6	2437	18.78	19.33	22.07	30.00		-2.00		20.07		36.00		Pass
VHT20	MCS0	2	11	2462	18.85	19.54	22.22	30.00		-2.00		20.22		36.00		Pass
VHT40	MCS0	2	3	2422	17.54	18.41	21.01	30.00		-2.00		19.01		36.00		Pass
VHT40	MCS0	2	6	2437	17.83	18.52	21.20	30.00		-2.00		19.20		36.00		Pass
VHT40	MCS0	2	9	2452	17.41	18.32	20.90	30.00		-2.00		18.90		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					ANT1	ANT2	SUM	ANT1	ANT2	ANT1	ANT2
11b	1Mbps	2	1	2412	15.00	14.80	17.91	-2.00		15.91	
11b	1Mbps	2	6	2437	14.90	15.20	18.06	-2.00		16.06	
11b	1Mbps	2	11	2462	14.80	14.90	17.86	-2.00		15.86	
11g	6Mbps	2	1	2412	13.80	14.60	17.23	-2.00		15.23	
11g	6Mbps	2	6	2437	13.80	14.80	17.34	-2.00		15.34	
11g	6Mbps	2	11	2462	13.70	14.60	17.18	-2.00		15.18	
HT20	MCS0	2	1	2412	12.80	13.40	16.12	-2.00		14.12	
HT20	MCS0	2	6	2437	12.70	13.70	16.24	-2.00		14.24	
HT20	MCS0	2	11	2462	12.70	13.60	16.18	-2.00		14.18	
HT40	MCS0	2	3	2422	11.50	12.50	15.04	-2.00		13.04	
HT40	MCS0	2	6	2437	11.70	12.80	15.30	-2.00		13.30	
HT40	MCS0	2	9	2452	11.60	12.30	14.97	-2.00		12.97	
VHT20	MCS0	2	1	2412	12.70	13.30	16.02	-2.00		14.02	
VHT20	MCS0	2	6	2437	12.60	13.60	16.14	-2.00		14.14	
VHT20	MCS0	2	11	2462	12.60	13.50	16.08	-2.00		14.08	
VHT40	MCS0	2	3	2422	11.40	12.20	14.83	-2.00		12.83	
VHT40	MCS0	2	6	2437	11.50	12.50	15.04	-2.00		13.04	
VHT40	MCS0	2	9	2452	11.30	12.10	14.73	-2.00		12.73	

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
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	2	1	2412	-4.40	-4.38	-1.37	1.01		8.00		Pass
11b	1Mbps	2	6	2437	-3.34	-2.94	0.07	1.01		8.00		Pass
11b	1Mbps	2	11	2462	-4.52	-5.11	-1.51	1.01		8.00		Pass
11g	6Mbps	2	1	2412	-9.49	-9.26	-6.25	1.01		8.00		Pass
11g	6Mbps	2	6	2437	-7.54	-9.00	-4.53	1.01		8.00		Pass
11g	6Mbps	2	11	2462	-8.35	-8.62	-5.34	1.01		8.00		Pass
HT20	MCS0	2	1	2412	-8.48	-7.08	-4.07	1.01		8.00		Pass
HT20	MCS0	2	6	2437	-8.74	-6.90	-3.89	1.01		8.00		Pass
HT20	MCS0	2	11	2462	-8.12	-7.08	-4.07	1.01		8.00		Pass
HT40	MCS0	2	3	2422	-12.37	-11.35	-8.34	1.01		8.00		Pass
HT40	MCS0	2	6	2437	-11.58	-10.49	-7.48	1.01		8.00		Pass
HT40	MCS0	2	9	2452	-12.52	-11.61	-8.60	1.01		8.00		Pass

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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	
HE20	MCS0	2	1	2412	Full	18.88	19.25	22.08	30.00		-2.00		20.08		36.00		Pass
HE20	MCS0	2	1	2412	26/0	13.88	14.32	17.12	30.00		-2.00		15.12		36.00		Pass
HE20	MCS0	2	1	2412	52/37	14.66	15.01	17.85	30.00		-2.00		15.85		36.00		Pass
HE20	MCS0	2	1	2412	106/53	17.30	17.83	20.58	30.00		-2.00		18.58		36.00		Pass
HE20	MCS0	2	6	2437	Full	19.26	19.72	22.51	30.00		-2.00		20.51		36.00		Pass
HE20	MCS0	2	11	2462	Full	19.29	19.84	22.58	30.00		-2.00		20.58		36.00		Pass
HE20	MCS0	2	11	2462	26/8	12.58	12.96	15.78	30.00		-2.00		13.78		36.00		Pass
HE20	MCS0	2	11	2462	52/40	13.41	14.17	16.82	30.00		-2.00		14.82		36.00		Pass
HE20	MCS0	2	11	2462	106/54	16.52	16.59	19.57	30.00		-2.00		17.57		36.00		Pass
HE40	MCS0	2	3	2422	Full	18.71	19.36	22.06	30.00		-2.00		20.06		36.00		Pass
HE40	MCS0	2	3	2422	242/61	17.37	17.83	20.62	30.00		-2.00		18.62		36.00		Pass
HE40	MCS0	2	6	2437	Full	18.72	19.25	22.00	30.00		-2.00		20.00		36.00		Pass
HE40	MCS0	2	9	2452	Full	18.90	19.27	22.10	30.00		-2.00		20.10		36.00		Pass
HE40	MCS0	2	9	2452	242/62	17.11	16.88	20.01	30.00		-2.00		18.01		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2
HE20	MCS0	2	1	2412	Full	12.70	13.30	16.02	-2.00		14.02	
HE20	MCS0	2	1	2412	26/0	3.80	4.40	7.12	-2.00		5.12	
HE20	MCS0	2	1	2412	52/37	4.90	5.50	8.22	-2.00		6.22	
HE20	MCS0	2	1	2412	106/53	8.30	8.80	11.57	-2.00		9.57	
HE20	MCS0	2	6	2437	Full	12.60	13.70	16.20	-2.00		14.20	
HE20	MCS0	2	11	2462	Full	12.70	13.60	16.18	-2.00		14.18	
HE20	MCS0	2	11	2462	26/8	2.70	3.30	6.02	-2.00		4.02	
HE20	MCS0	2	11	2462	52/40	4.30	4.90	7.62	-2.00		5.62	
HE20	MCS0	2	11	2462	106/54	7.60	7.70	10.66	-2.00		8.66	
HE40	MCS0	2	3	2422	Full	12.40	13.50	16.00	-2.00		14.00	
HE40	MCS0	2	3	2422	242/61	7.40	8.00	10.72	-2.00		8.72	
HE40	MCS0	2	6	2437	Full	12.50	13.60	16.10	-2.00		14.10	
HE40	MCS0	2	9	2452	Full	12.60	13.20	15.92	-2.00		13.92	
HE40	MCS0	2	9	2452	242/62	9.50	7.00	11.44	-2.00		9.44	

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20		1	1	2412	Full	18.98	18.98	18.88	18.70	0.50	Pass
HE20		1	6	2437	Full	18.93	18.93	18.78	18.78	0.50	Pass
HE20		1	11	2462	Full	18.93	18.93	18.80	18.82	0.50	Pass
HE40		1	3	2422	Full	37.86	37.96	37.76	37.24	0.50	Pass
HE40		1	6	2437	Full	37.86	37.96	37.56	37.56	0.50	Pass
HE40		1	9	2452	Full	38.06	37.86	37.92	37.60	0.50	Pass

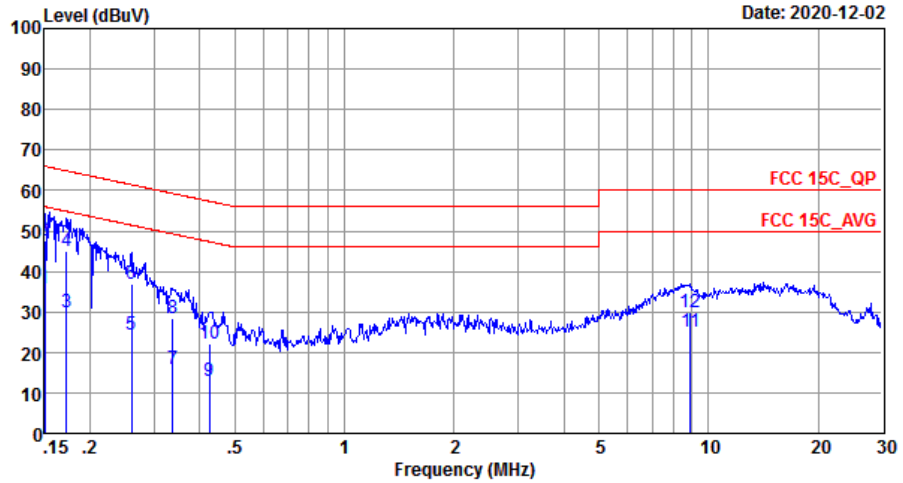
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-8.85	-9.46	-5.84	1.01		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-9.14	-9.83	-6.13	1.01		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-9.51	-9.83	-6.50	1.01		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-8.94	-10.33	-5.93	1.01		8.00		Pass
HE20	MCS0	2	6	2437	Full	-9.06	-8.88	-5.87	1.01		8.00		Pass
HE20	MCS0	2	11	2462	Full	-9.14	-8.53	-5.52	1.01		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-9.33	-10.03	-6.32	1.01		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-9.44	-9.65	-6.43	1.01		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-9.50	-11.01	-6.49	1.01		8.00		Pass
HE40	MCS0	2	3	2422	Full	-12.04	-10.77	-7.76	1.01		8.00		Pass
HE40	MCS0	2	3	2422	242/61	-12.52	-13.98	-9.51	1.01		8.00		Pass
HE40	MCS0	2	6	2437	Full	-11.43	-10.02	-7.01	1.01		8.00		Pass
HE40	MCS0	2	9	2452	Full	-12.75	-10.84	-7.83	1.01		8.00		Pass
HE40	MCS0	2	9	2452	242/62	-13.56	-13.87	-10.55	1.01		8.00		Pass

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

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Xie YuQiang	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

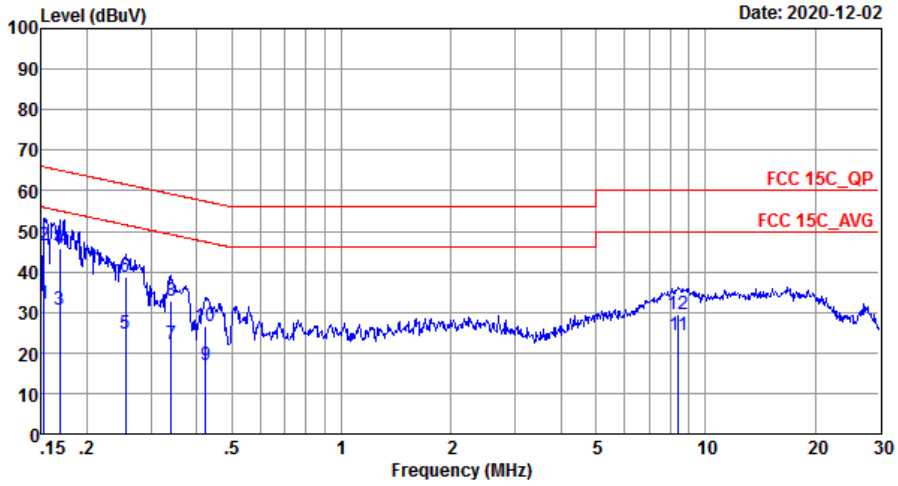


Site : CO01-SZ
Condition: FCC 15C_QP LISN_20200719_L LINE

IMEI : 990017410025130

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15	35.94	-20.06	56.00	25.90	0.03	10.01	Average
2	*	0.15	47.54	-18.46	66.00	37.50	0.03	10.01	QP
3		0.17	30.04	-24.82	54.86	20.00	0.03	10.01	Average
4		0.17	44.94	-19.92	64.86	34.90	0.03	10.01	QP
5		0.26	24.34	-27.08	51.42	14.30	0.03	10.01	Average
6		0.26	36.94	-24.48	61.42	26.90	0.03	10.01	QP
7		0.34	15.74	-33.53	49.27	5.70	0.03	10.01	Average
8		0.34	28.34	-30.93	59.27	18.30	0.03	10.01	QP
9		0.43	12.85	-34.48	47.33	2.80	0.03	10.02	Average
10		0.43	22.05	-35.28	57.33	12.00	0.03	10.02	QP
11		8.92	24.95	-25.05	50.00	14.39	0.32	10.24	Average
12		8.92	30.05	-29.95	60.00	19.49	0.32	10.24	QP

Test Engineer :	Xie YuQiang	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15C QP LISN 20200719 N NEUTRAL

IMEI : 990017410025130

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15	32.24	-23.63	55.87	22.20	0.03	10.01	Average
2		0.15	46.44	-19.43	65.87	36.40	0.03	10.01	QP
3		0.17	30.54	-24.49	55.03	20.50	0.03	10.01	Average
4	*	0.17	45.74	-19.29	65.03	35.70	0.03	10.01	QP
5		0.25	24.84	-26.76	51.60	14.80	0.03	10.01	Average
6		0.25	38.84	-22.76	61.60	28.80	0.03	10.01	QP
7		0.34	22.24	-26.94	49.18	12.20	0.03	10.01	Average
8		0.34	32.84	-26.34	59.18	22.80	0.03	10.01	QP
9		0.42	16.84	-30.53	47.37	6.80	0.02	10.02	Average
10		0.42	26.44	-30.93	57.37	16.40	0.02	10.02	QP
11		8.41	24.45	-25.55	50.00	14.11	0.11	10.23	Average
12		8.41	29.65	-30.35	60.00	19.31	0.11	10.23	QP

Note:

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

Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2315.98	50.6	-23.4	74	46.9	27.97	7.71	31.98	285	158	P	H
		2390	40.04	-13.96	54	36.33	27.82	7.8	31.91	285	158	A	H
	*	2412	105.74	-	-	102.05	27.75	7.83	31.89	285	158	P	H
	*	2412	103.92	-	-	100.23	27.75	7.83	31.89	285	158	A	H
		2388.12	51.01	-22.99	74	47.3	27.82	7.8	31.91	102	65	P	V
		2390	39.97	-14.03	54	36.26	27.82	7.8	31.91	102	65	A	V
	*	2412	106.48	-	-	102.79	27.75	7.83	31.89	102	65	P	V
	*	2412	103.7	-	-	100.01	27.75	7.83	31.89	102	65	A	V
802.11b CH 06 2437MHz		2369.5	50.21	-23.79	74	46.5	27.86	7.78	31.93	314	161	P	H
		2389.1	39.32	-14.68	54	35.61	27.82	7.8	31.91	314	161	A	H
	*	2437	107.39	-	-	103.74	27.65	7.86	31.86	314	161	P	H
	*	2437	105.69	-	-	102.04	27.65	7.86	31.86	314	161	A	H
		2484.81	49.91	-24.09	74	46.22	27.6	7.91	31.82	314	161	P	H
		2483.76	39.11	-14.89	54	35.42	27.6	7.91	31.82	314	161	A	H
		2357.04	50.54	-23.46	74	46.83	27.89	7.76	31.94	372	81	P	V
		2386.02	39.24	-14.76	54	35.52	27.83	7.8	31.91	372	81	A	V
		2437	106.68	-	-	103.03	27.66	7.85	31.86	372	81	P	V
		2437	104.91	-	-	101.26	27.66	7.85	31.86	372	81	A	V
		2492.09	49.52	-24.48	74	45.81	27.6	7.92	31.81	372	81	P	V
		2483.83	38.93	-15.07	54	35.24	27.6	7.91	31.82	372	81	A	V

802.11b CH 11 2462MHz	*	2462	106.44	-	-	102.79	27.6	7.89	31.84	207	215	P	H
	*	2462	103.7	-	-	100.05	27.6	7.89	31.84	207	215	A	H
		2486.72	50.78	-23.22	74	47.08	27.6	7.91	31.81	207	215	P	H
		2483.52	39.7	-14.3	54	36.01	27.6	7.91	31.82	207	215	A	H
	*	2462	103.94	-	-	100.29	27.6	7.89	31.84	100	121	P	V
	*	2462	102.16	-	-	98.51	27.6	7.89	31.84	100	121	A	V
		2484.2	50.08	-23.92	74	46.39	27.6	7.91	31.82	100	121	P	V
		2486.16	39.22	-14.78	54	35.52	27.6	7.91	31.81	100	121	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)	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	43.43	-30.57	74	51.28	31.3	49.54	10.39	141	214	P	H
		4824	44.06	-29.94	74	51.91	31.3	49.54	10.39	158	320	P	V
802.11b CH 06 2437MHz		4874	43.7	-30.3	74	51.5	31.3	49.53	10.43	122	136	P	H
		7311	46.8	-27.2	74	49.08	36.01	50.39	12.1	112	298	P	H
		4874	43.05	-30.95	74	50.85	31.3	49.53	10.43	233	102	P	V
		7311	46.97	-27.03	74	49.25	36.01	50.39	12.1	185	32	P	V
802.11b CH 11 2462MHz		4924	43.42	-30.58	74	51.06	31.4	49.52	10.48	102	203	P	H
		7386	47.62	-26.38	74	49.68	36.2	50.43	12.17	172	214	P	H
		4924	44.31	-29.69	74	51.95	31.4	49.52	10.48	150	269	P	V
		7386	47.94	-26.06	74	50	36.2	50.43	12.17	189	238	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)	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	62.34	-11.66	74	58.63	27.82	7.8	31.91	291	211	P	H
		2390	47.99	-6.01	54	44.28	27.82	7.8	31.91	291	211	A	H
	*	2412	109.96	-	-	106.27	27.75	7.83	31.89	291	211	P	H
	*	2412	102.85	-	-	99.16	27.75	7.83	31.89	291	211	A	H
		2390	65.72	-8.28	74	62.01	27.82	7.8	31.91	178	270	P	V
		2390	50.72	-3.28	54	47.01	27.82	7.8	31.91	178	270	A	V
	*	2412	112.62	-	-	108.93	27.75	7.83	31.89	178	270	P	V
	*	2412	106	-	-	102.31	27.75	7.83	31.89	178	270	A	V
802.11g CH 06 2437MHz		2374.26	49.8	-24.2	74	46.1	27.85	7.78	31.93	289	220	P	H
		2389.94	39.24	-14.76	54	35.53	27.82	7.8	31.91	289	220	A	H
	*	2437	108.88	-	-	105.23	27.65	7.86	31.86	289	220	P	H
	*	2437	101.83	-	-	98.18	27.65	7.86	31.86	289	220	A	H
		2490.13	49.04	-24.96	74	45.33	27.6	7.92	31.81	289	220	P	H
		2483.55	38.97	-15.03	54	35.28	27.6	7.91	31.82	289	220	A	H
		2352.98	50.12	-23.88	74	46.42	27.89	7.76	31.95	178	298	P	V
		2389.1	39.48	-14.52	54	35.77	27.82	7.8	31.91	178	298	A	V
	*	2437	111.51	-	-	107.86	27.65	7.86	31.86	178	298	P	V
	*	2437	105.19	-	-	101.54	27.65	7.86	31.86	178	298	A	V
		2491.46	49.4	-24.6	74	45.69	27.6	7.92	31.81	178	298	P	V
		2483.69	39.25	-14.75	54	35.56	27.6	7.91	31.82	178	298	A	V

802.11g CH 11 2462MHz	*	2462	109.19	-	-	105.54	27.6	7.89	31.84	257	209	P	H
	*	2462	103.13	-	-	99.48	27.6	7.89	31.84	257	209	A	H
		2483.72	63.88	-10.12	74	60.19	27.6	7.91	31.82	257	209	P	H
		2483.52	49.49	-4.51	54	45.8	27.6	7.91	31.82	257	209	A	H
	*	2462	111.25	-	-	107.6	27.6	7.89	31.84	141	264	P	V
	*	2462	104.79	-	-	101.14	27.6	7.89	31.84	141	264	A	V
		2483.52	62.76	-11.24	74	59.07	27.6	7.91	31.82	141	264	P	V
		2483.6	48.67	-5.33	54	44.98	27.6	7.91	31.82	141	264	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	43.8	-30.2	74	51.65	31.3	49.54	10.39	141	214	P	H
		4824	43.83	-30.17	74	51.68	31.3	49.54	10.39	158	320	P	V
802.11g CH 06 2437MHz		4874	43.29	-30.71	74	51.09	31.3	49.53	10.43	122	136	P	H
		7311	47.38	-26.62	74	49.66	36.01	50.39	12.1	112	298	P	H
		4874	43.12	-30.88	74	50.92	31.3	49.53	10.43	233	102	P	V
		7311	47.48	-26.52	74	49.76	36.01	50.39	12.1	185	32	P	V
802.11g CH 11 2462MHz		4924	43.74	-30.26	74	51.38	31.4	49.52	10.48	102	203	P	H
		7386	47.87	-26.13	74	49.93	36.2	50.43	12.17	172	214	P	H
		4924	43.74	-30.26	74	51.38	31.4	49.52	10.48	150	269	P	V
		7386	47.06	-26.94	74	49.12	36.2	50.43	12.17	189	238	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2388.75	53.94	-20.06	74	50.23	27.82	7.8	31.91	359	321	P	H
		2389.90	42.5	-11.5	54	38.79	27.82	7.8	31.91	359	321	A	H
802.11n	*	2412	109.78	-	-	106.09	27.75	7.83	31.89	359	321	P	H
HT20	*	2412	102.98	-	-	99.29	27.75	7.83	31.89	359	321	A	H
CH 01		2388.43	56.49	-17.51	74	52.78	27.82	7.8	31.91	111	272	P	V
2412MHz		2389.59	45.63	-8.37	54	41.92	27.82	7.8	31.91	111	272	A	V
	*	2412	112.09	-	-	108.4	27.75	7.83	31.89	111	272	P	V
	*	2412	106.01	-	-	102.32	27.75	7.83	31.89	111	272	A	V
		2338.28	49.91	-24.09	74	46.21	27.92	7.74	31.96	353	320	P	H
		2384.9	39.53	-14.47	54	35.83	27.83	7.79	31.92	353	320	A	H
	*	2437	109.9	-	-	106.25	27.65	7.86	31.86	353	320	P	H
	*	2437	103.02	-	-	99.37	27.65	7.86	31.86	353	320	A	H
802.11n		2489.01	49.42	-24.58	74	45.71	27.6	7.92	31.81	353	320	P	H
HT20		2484.25	39.27	-14.73	54	35.58	27.6	7.91	31.82	353	320	A	H
CH 06		2351.16	50.33	-23.67	74	46.63	27.9	7.75	31.95	320	230	P	V
2437MHz		2389.8	39.48	-14.52	54	35.77	27.82	7.8	31.91	320	230	A	V
	*	2437	111.1	-	-	107.45	27.65	7.86	31.86	320	230	P	V
	*	2437	103.4	-	-	99.75	27.65	7.86	31.86	320	230	A	V
		2496.15	49.46	-24.54	74	45.73	27.6	7.93	31.8	320	230	P	V
		2484.81	39.08	-14.92	54	35.39	27.6	7.91	31.82	320	230	A	V

	*	2462	107.15	-	-	103.5	27.6	7.89	31.84	102	236	P	H
	*	2462	100.19	-	-	96.54	27.6	7.89	31.84	102	236	A	H
802.11n		2483.92	52.36	-21.64	74	48.67	27.6	7.91	31.82	102	236	P	H
HT20		2483.52	42.22	-11.78	54	38.53	27.6	7.91	31.82	102	236	A	H
CH 11	*	2462	111.72	-	-	108.07	27.6	7.89	31.84	108	271	P	V
2462MHz	*	2462	104.31	-	-	100.66	27.6	7.89	31.84	108	271	A	V
		2486.08	55.21	-18.79	74	51.51	27.6	7.91	31.81	108	271	P	V
		2483.52	44.02	-9.98	54	40.33	27.6	7.91	31.82	108	271	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)	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	43.95	-30.05	74	51.8	31.3	49.54	10.39	141	214	P	H
		4824	43.08	-30.92	74	50.93	31.3	49.54	10.39	158	320	P	V
802.11n HT20 CH 06 2437MHz		4874	43.02	-30.98	74	50.82	31.3	49.53	10.43	122	136	P	H
		7311	46.94	-27.06	74	49.22	36.01	50.39	12.1	112	298	P	H
		4874	42.98	-31.02	74	50.78	31.3	49.53	10.43	233	102	P	V
		7311	47.82	-26.18	74	50.1	36.01	50.39	12.1	185	32	P	V
802.11n HT20 CH 11 2462MHz		4924	44.43	-29.57	74	52.07	31.4	49.52	10.48	102	203	P	H
		7386	47.34	-26.66	74	49.4	36.2	50.43	12.17	172	214	P	H
		4924	43.76	-30.24	74	51.4	31.4	49.52	10.48	150	269	P	V
		7386	47.33	-26.67	74	49.39	36.2	50.43	12.17	189	238	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.8	56.25	-17.75	74	52.54	27.82	7.8	31.91	102	232	P	H
		2389.94	43.41	-10.59	54	39.7	27.82	7.8	31.91	102	232	A	H
	*	2422	104.07	-	-	100.4	27.71	7.84	31.88	102	232	P	H
	*	2422	97.23	-	-	93.56	27.71	7.84	31.88	102	232	A	H
802.11n		2489.92	49.95	-24.05	74	46.24	27.6	7.92	31.81	102	232	P	H
HT40		2483.76	39.28	-14.72	54	35.59	27.6	7.91	31.82	102	232	A	H
CH 03		2389.66	58.74	-15.26	74	55.03	27.82	7.8	31.91	149	269	P	V
2422MHz		2389.94	45.95	-8.05	54	42.24	27.82	7.8	31.91	149	269	A	V
	*	2422	109.52	-	-	105.85	27.71	7.84	31.88	149	269	P	V
	*	2422	101.66	-	-	97.99	27.71	7.84	31.88	149	269	A	V
		2485.86	50.69	-23.31	74	46.99	27.6	7.91	31.81	149	269	P	V
		2483.83	39.97	-14.03	54	36.28	27.6	7.91	31.82	149	269	A	V
		2388.82	51.1	-22.9	74	47.39	27.82	7.8	31.91	103	232	P	H
		2389.66	40.08	-13.92	54	36.37	27.82	7.8	31.91	103	232	A	H
	*	2437	103.88	-	-	100.23	27.65	7.86	31.86	103	232	P	H
	*	2437	97.71	-	-	94.06	27.65	7.86	31.86	103	232	A	H
802.11n		2487.61	49.71	-24.29	74	46	27.6	7.92	31.81	103	232	P	H
HT40		2483.5	39.53	-14.47	54	35.84	27.6	7.91	31.82	103	232	A	H
CH 06		2388.26	50.8	-23.2	74	47.09	27.82	7.8	31.91	208	272	P	V
2437MHz		2389.94	40.69	-13.31	54	36.98	27.82	7.8	31.91	208	272	A	V
	*	2437	108.75	-	-	105.1	27.65	7.86	31.86	208	272	P	V
	*	2437	101.43	-	-	97.78	27.65	7.86	31.86	208	272	A	V
		2483.5	50.78	-23.22	74	47.09	27.6	7.91	31.82	208	272	P	V
		2483.5	40.45	-13.55	54	36.76	27.6	7.91	31.82	208	272	A	V

		2374.12	50.35	-23.65	74	46.65	27.85	7.78	31.93	107	235	P	H
		2389.8	39.8	-14.2	54	36.09	27.82	7.8	31.91	107	235	A	H
	*	2452	103.5	-	-	99.88	27.6	7.87	31.85	107	235	P	H
	*	2452	96.79	-	-	93.17	27.6	7.87	31.85	107	235	A	H
802.11n		2485.93	51.59	-22.41	74	47.89	27.6	7.91	31.81	107	235	P	H
HT40		2483.5	41.17	-12.83	54	37.48	27.6	7.91	31.82	107	235	A	H
CH 09		2370.9	50.69	-23.31	74	46.98	27.86	7.78	31.93	108	274	P	V
2452MHz		2389.66	40.61	-13.39	54	36.9	27.82	7.8	31.91	108	274	A	V
	*	2452	108.11	-	-	104.49	27.6	7.87	31.85	108	274	P	V
	*	2452	101.59	-	-	97.97	27.6	7.87	31.85	108	274	A	V
		2483.83	55	-19	74	51.31	27.6	7.91	31.82	108	274	P	V
		2483.5	44.1	-9.9	54	40.41	27.6	7.91	31.82	108	274	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4844	42.8	-31.2	74	50.62	31.3	49.53	10.41	114	148	P	H
HT40		7266	47.26	-26.74	74	49.68	35.89	50.36	12.05	189	238	P	H
CH 03		4844	43.3	-30.7	74	51.12	31.3	49.53	10.41	200	210	P	V
2422MHz		7266	47.46	-26.54	74	49.88	35.89	50.36	12.05	105	269	P	V
802.11n		4874	43.12	-30.88	74	50.92	31.3	49.53	10.43	122	136	P	H
HT40		7311	47.51	-26.49	74	49.79	36.01	50.39	12.1	112	298	P	H
CH 06		4874	42.97	-31.03	74	50.77	31.3	49.53	10.43	233	102	P	V
2437MHz		7311	47.86	-26.14	74	50.14	36.01	50.39	12.1	185	32	P	V
802.11n		4904	43.36	-30.64	74	51.1	31.32	49.52	10.46	152	149	P	H
HT40		7356	47.12	-26.88	74	49.26	36.13	50.41	12.14	180	225	P	H
CH 09		4904	43.81	-30.19	74	51.55	31.32	49.52	10.46	200	89	P	V
2452MHz		7356	47.79	-26.21	74	49.93	36.13	50.41	12.14	181	318	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 802.11 ax HE20 Full (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.06	56.5	-17.5	74	52.79	27.82	7.8	31.91	114	327	P	H
		2390	43.95	-10.05	54	40.24	27.82	7.8	31.91	114	327	A	H
802.11ax	*	2412	107.61	-	-	103.92	27.75	7.83	31.89	114	327	P	H
HE20 Full	*	2412	99.57	-	-	95.88	27.75	7.83	31.89	114	327	A	H
CH 01		2389.8	59.32	-14.68	74	55.61	27.82	7.8	31.91	132	272	P	V
2412MHz		2390	46.12	-7.88	54	42.41	27.82	7.8	31.91	132	272	A	V
	*	2412	111.75	-	-	108.06	27.75	7.83	31.89	132	272	P	V
	*	2412	102.31	-	-	98.62	27.75	7.83	31.89	132	272	A	V
		2347.52	49.58	-24.42	74	45.88	27.9	7.75	31.95	136	327	P	H
		2385.88	39.35	-14.65	54	35.63	27.83	7.8	31.91	136	327	A	H
	*	2437	108.98	-	-	105.33	27.65	7.86	31.86	136	327	P	H
	*	2437	100.42	-	-	96.77	27.65	7.86	31.86	136	327	A	H
802.11ax		2492.09	49.57	-24.43	74	45.86	27.6	7.92	31.81	136	327	P	H
HE20 Full		2483.83	39.12	-14.88	54	35.43	27.6	7.91	31.82	136	327	A	H
CH 06		2384.2	50.61	-23.39	74	46.91	27.83	7.79	31.92	100	287	P	V
2437MHz		2389.8	39.5	-14.5	54	35.79	27.82	7.8	31.91	100	287	A	V
	*	2437	111.64	-	-	107.99	27.65	7.86	31.86	100	287	P	V
	*	2437	102.92	-	-	99.27	27.65	7.86	31.86	100	287	A	V
		2486.07	49.77	-24.23	74	46.07	27.6	7.91	31.81	100	287	P	V
		2483.97	39.17	-14.83	54	35.48	27.6	7.91	31.82	100	287	A	V

WIFI Ant. 1+2	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)
	*	2462	108.39	-	-	104.74	27.6	7.89	31.84	228	218	P	H
	*	2462	99.9	-	-	96.25	27.6	7.89	31.84	228	218	A	H
8802.11ax		2485.56	56.5	-17.5	74	52.8	27.6	7.91	31.81	228	218	P	H
HE20 Full		2483.52	44.6	-9.4	54	40.91	27.6	7.91	31.82	228	218	A	H
CH 11	*	2462	111.03	-	-	107.38	27.6	7.89	31.84	112	288	P	V
2462MHz	*	2462	101.83	-	-	98.18	27.6	7.89	31.84	112	288	A	V
		2484.04	56.45	-17.55	74	52.76	27.6	7.91	31.82	112	288	P	V
		2483.52	45.22	-8.78	54	41.53	27.6	7.91	31.82	112	288	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 802.11 ax HE20 Full (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		4824	43.3	-30.7	74	51.15	31.3	49.54	10.39	141	214	P	H
		4824	42.98	-31.02	74	50.83	31.3	49.54	10.39	158	320	P	V
802.11ax HE20 Full CH 06 2437MHz		4874	44.02	-29.98	74	51.82	31.3	10.43	49.53	122	136	P	H
		7311	46.8	-27.2	74	49.08	36.01	12.1	50.39	112	298	P	H
		4874	43.4	-30.6	74	51.2	31.3	10.43	49.53	233	102	P	V
		7311	47.73	-26.27	74	50.01	36.01	12.1	50.39	185	32	P	V
802.11ax HE20 Full CH 11 2462MHz		4924	44.02	-29.98	74	51.66	31.4	10.48	49.52	102	203	P	H
		7386	47.41	-26.59	74	49.47	36.2	12.17	50.43	172	214	P	H
		4924	43.96	-30.04	74	51.6	31.4	10.48	49.52	150	269	P	V
		7386	47.55	-26.45	74	49.61	36.2	12.17	50.43	189	238	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 802.11ax HE20 Partial 106 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2387.07	52.48	-21.52	74	48.76	27.83	7.8	31.91	100	319	P	H
802.11ax		2390	39.12	-14.88	54	35.41	27.82	7.8	31.91	100	319	A	H
HE20	*	2412	107.96	-	-	104.27	27.75	7.83	31.89	100	319	P	H
Partial	*	2412	98.78	-	-	95.09	27.75	7.83	31.89	100	319	A	H
106/53		2322.18	49.76	-24.24	74	46.06	27.96	7.72	31.98	100	246	P	V
CH 01		2389.905	39.17	-14.83	54	35.46	27.82	7.8	31.91	100	246	A	V
2412MHz	*	2412	104.05	-	-	100.36	27.75	7.83	31.89	100	246	P	V
	*	2412	95.68	-	-	91.99	27.75	7.83	31.89	100	246	A	V

	*	2462	106.21	-	-	102.56	27.6	7.89	31.84	136	319	P	H
802.11ax	*	2462	97.39	-	-	93.74	27.6	7.89	31.84	136	319	A	H
HE20		2483.8	51.04	-22.96	74	47.35	27.6	7.91	31.82	136	319	P	H
Partial		2483.56	38.78	-15.22	54	35.09	27.6	7.91	31.82	136	319	A	H
106/54	*	2462	108.76	-	-	105.11	27.6	7.89	31.84	159	281	P	V
CH 11	*	2462	101.59	-	-	97.94	27.6	7.89	31.84	159	281	A	V
2462MHz		2484.56	55.8	-18.2	74	52.11	27.6	7.91	31.82	159	281	P	V
		2483.52	38.97	-15.03	54	35.28	27.6	7.91	31.82	159	281	A	V

Remark

3. No other spurious found.
4. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 106 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 01 2412MHz		4824	44.43	-29.57	74	52.28	31.3	10.39	49.54	184	226	P	H
		4824	43.84	-30.16	74	51.69	31.3	10.39	49.54	141	214	P	V
802.11ax HE20 Partial 106/54 CH 11 2462MHz		4924	43.92	-30.08	74	51.56	31.4	10.48	49.52	102	203	P	H
		7386	48.35	-25.65	74	50.41	36.2	12.17	50.43	172	214	P	H
		4924	44.19	-29.81	74	51.83	31.4	10.48	49.52	148	36	P	V
		7386	48.05	-25.95	74	50.11	36.2	12.17	50.43	106	77	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.1	57.46	-16.54	74	53.75	27.82	7.8	31.91	243	210	P	H
		2389.94	45.51	-8.49	54	41.8	27.82	7.8	31.91	243	210	A	H
	*	2422	104.41	-	-	100.74	27.71	7.84	31.88	243	210	P	H
	*	2422	95.83	-	-	92.16	27.71	7.84	31.88	243	210	A	H
802.11ax		2487.05	50.8	-23.2	74	47.1	27.6	7.91	31.81	243	210	P	H
HE40 Full		2483.69	39.6	-14.4	54	35.91	27.6	7.91	31.82	243	210	A	H
CH 03		2389.94	61.23	-12.77	74	57.52	27.82	7.8	31.91	209	273	P	V
2422MHz		2389.94	49.06	-4.94	54	45.35	27.82	7.8	31.91	209	273	A	V
	*	2422	109.47	-	-	105.8	27.71	7.84	31.88	209	273	P	V
	*	2422	99.99	-	-	96.32	27.71	7.84	31.88	209	273	A	V
		2484.39	50.73	-23.27	74	47.04	27.6	7.91	31.82	209	273	P	V
		2483.5	40.53	-13.47	54	36.84	27.6	7.91	31.82	209	273	A	V
		2316.58	50.74	-23.26	74	47.04	27.97	7.71	31.98	303	219	P	H
		2389.94	40.48	-13.52	54	36.77	27.82	7.8	31.91	303	219	A	H
	*	2437	105.53	-	-	101.88	27.65	7.86	31.86	303	219	P	H
	*	2437	96.48	-	-	92.83	27.65	7.86	31.86	303	219	A	H
802.11ax		2484.88	52.06	-21.94	74	48.37	27.6	7.91	31.82	303	219	P	H
HE40 Full		2483.5	40.94	-13.06	54	37.25	27.6	7.91	31.82	303	219	A	H
CH 06		2389.38	52.76	-21.24	74	49.05	27.82	7.8	31.91	199	267	P	V
2437MHz		2389.94	42.44	-11.56	54	38.73	27.82	7.8	31.91	199	267	A	V
	*	2437	108.4	-	-	104.75	27.65	7.86	31.86	199	267	P	V
	*	2437	99.09	-	-	95.44	27.65	7.86	31.86	199	267	A	V
		2484.11	54.96	-19.04	74	51.27	27.6	7.91	31.82	199	267	P	V
		2483.5	42.71	-11.29	54	39.02	27.6	7.91	31.82	199	267	A	V

WIFI Ant. 1+2	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)
		2342.9	49.98	-24.02	74	46.29	27.91	7.74	31.96	114	334	P	H
		2389.66	39.82	-14.18	54	36.11	27.82	7.8	31.91	114	334	A	H
	*	2452	104.7	-	-	101.08	27.6	7.87	31.85	114	334	P	H
	*	2452	96	-	-	92.38	27.6	7.87	31.85	114	334	A	H
802.11ax		2484.67	57.96	-16.04	74	54.27	27.6	7.91	31.82	114	334	P	H
HE40 Full		2483.5	44.38	-9.62	54	40.69	27.6	7.91	31.82	114	334	A	H
CH 09		2389.66	50.47	-23.53	74	46.76	27.82	7.8	31.91	137	273	P	V
2452MHz		2389.94	40.85	-13.15	54	37.14	27.82	7.8	31.91	137	273	A	V
	*	2452	108.93	-	-	105.31	27.6	7.87	31.85	137	273	P	V
	*	2452	99.14	-	-	95.52	27.6	7.87	31.85	137	273	A	V
		2483.55	59.62	-14.38	74	55.93	27.6	7.91	31.82	137	273	P	V
		2483.5	46.74	-7.26	54	43.05	27.6	7.91	31.82	137	273	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 802.11 ax HE40 Full (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		4844	43.59	-30.41	74	51.41	31.3	10.41	49.53	114	148	P	H
HE40 Full		7266	47.46	-26.54	74	49.88	35.89	12.05	50.36	189	238	P	H
CH 03		4844	43.56	-30.44	74	51.38	31.3	10.41	49.53	200	210	P	V
2422MHz		7266	47.61	-26.39	74	50.03	35.89	12.05	50.36	105	269	P	V
802.11ax		4874	44.08	-29.92	74	51.88	31.3	10.43	49.53	122	136	P	H
HE40 Full		7311	47.18	-26.82	74	49.46	36.01	12.1	50.39	112	298	P	H
CH 06		4874	43.93	-30.07	74	51.73	31.3	10.43	49.53	233	102	P	V
2437MHz		7311	47.29	-26.71	74	49.57	36.01	12.1	50.39	185	32	P	V
802.11ax		4904	43.24	-30.76	74	50.98	31.32	10.46	49.52	152	149	P	H
HE40 Full		7356	47.5	-26.5	74	49.64	36.13	12.14	50.41	180	225	P	H
CH 09		4904	43.11	-30.89	74	50.85	31.32	10.46	49.52	200	89	P	V
2452MHz		7356	47.1	-26.9	74	49.24	36.13	12.14	50.41	181	318	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 802.11ax HE40 Partial 242 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2388.54	49.78	-24.22	74	46.07	27.82	7.8	31.91	238	215	P	H
		2389.8	39.75	-14.25	54	36.04	27.82	7.8	31.91	238	215	A	H
	*	2422	104.85	-	-	101.18	27.71	7.84	31.88	238	215	P	H
	*	2422	95.83	-	-	92.16	27.71	7.84	31.88	238	215	A	H
802.11ax		2489.15	49.11	-24.89	74	45.4	27.6	7.92	31.81	238	215	P	H
HE40		2483.5	38.79	-15.21	54	35.1	27.6	7.91	31.82	238	215	A	H
Partial		2389.24	51.1	-22.9	74	47.39	27.82	7.8	31.91	100	292	P	V
242/61		2389.94	40.7	-13.3	54	36.99	27.82	7.8	31.91	100	292	A	V
CH 03	*	2422	107.42	-	-	103.75	27.71	7.84	31.88	100	292	P	V
2422MHz	*	2422	98.53	-	-	94.86	27.71	7.84	31.88	100	292	A	V
		2497.9	50.04	-23.96	74	46.31	27.6	7.93	31.8	100	292	P	V
		2483.62	39.02	-14.98	54	35.33	27.6	7.91	31.82	100	292	A	V
		2331	50.06	-23.94	74	46.36	27.94	7.73	31.97	265	213	P	H
		2388.12	39.02	-14.98	54	35.31	27.82	7.8	31.91	265	213	A	H
	*	2452	103.07	-	-	99.45	27.6	7.87	31.85	265	213	P	H
	*	2452	94.71	-	-	91.09	27.6	7.87	31.85	265	213	A	H
802.11ax		2484.88	49.2	-24.8	74	45.51	27.6	7.91	31.82	265	213	P	H
HE40		2483.55	39.16	-14.84	54	35.47	27.6	7.91	31.82	265	213	A	H
Partial		2386.3	49.89	-24.11	74	46.17	27.83	7.8	31.91	120	289	P	V
242/62		2389.66	39.35	-14.65	54	35.64	27.82	7.8	31.91	120	289	A	V
CH 09	*	2452	104.81	-	-	101.19	27.6	7.87	31.85	120	289	P	V
2452MHz	*	2452	97.12	-	-	93.5	27.6	7.87	31.85	120	289	A	V
		2498.39	49.89	-24.11	74	46.16	27.6	7.93	31.8	120	289	P	V
		2483.5	39.58	-14.42	54	35.89	27.6	7.91	31.82	120	289	A	V

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Partial 242 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 03 2422MHz		4844	42.79	-31.21	74	50.61	31.3	10.41	49.53	114	148	P	H
		7266	47.39	-26.61	74	49.81	35.89	12.05	50.36	189	238	P	H
		4844	42.53	-31.47	74	50.35	31.3	10.41	49.53	200	210	P	V
		7266	47.89	-26.11	74	50.31	35.89	12.05	50.36	105	269	P	V
802.11ax HE40 Partial 242/62 CH 09 2452MHz		4904	43.96	-30.04	74	51.7	31.32	10.46	49.52	152	149	P	H
		7356	47.59	-26.41	74	49.73	36.13	12.14	50.41	180	225	P	H
		4904	42.99	-31.01	74	50.73	31.32	10.46	49.52	200	89	P	V
		7356	47.52	-26.48	74	49.66	36.13	12.14	50.41	181	318	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		46.49	18.98	-21.02	40	31.63	20.26	35.06	2.15	-	-	P	H
		92.08	29.38	-14.12	43.5	48.2	13.95	35.18	2.41	100	12	P	H
		159.01	26.01	-17.49	43.5	39.21	19.31	35.1	2.59	-	-	P	H
		287.05	25.73	-20.27	46	38.05	19.51	34.93	3.1	-	-	P	H
		330.7	29.1	-16.9	46	40.2	20.59	34.9	3.21	-	-	P	H
		569.32	26.4	-19.6	46	32.04	25.18	34.56	3.74	-	-	P	H
		49.4	23.53	-16.47	40	36.11	20.29	35.09	2.22	-	-	P	V
		91.11	36.3	-7.2	43.5	55.16	13.94	35.18	2.38	100	72	P	V
		159.98	30.94	-12.56	43.5	44.13	19.32	35.1	2.59	-	-	P	V
		292.87	26.34	-19.66	46	38.5	19.61	34.91	3.14	-	-	P	V
		399.57	26.89	-19.11	46	36.29	22.09	34.8	3.31	-	-	P	V
		585.81	27.97	-18.03	46	33.16	25.52	34.53	3.82	-	-	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	Path	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 CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

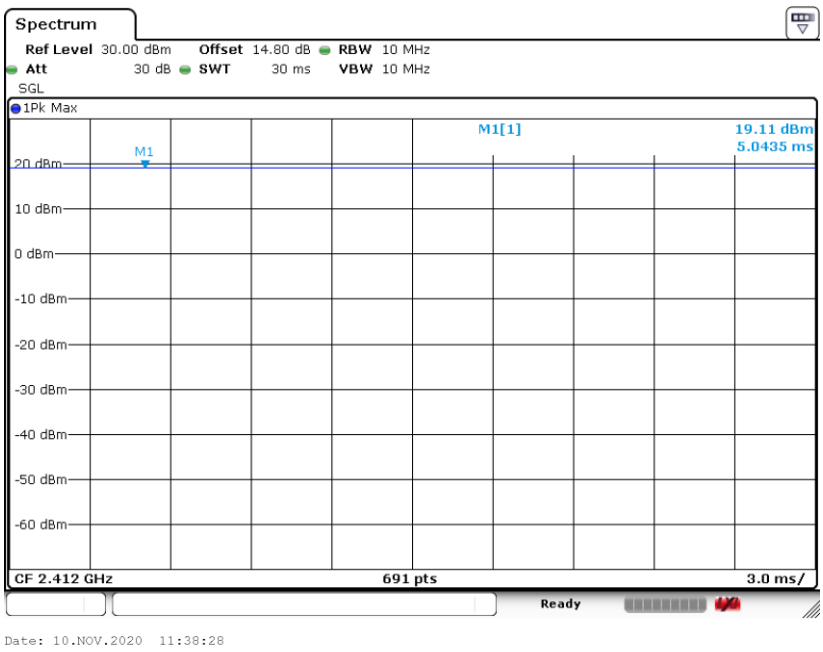
Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

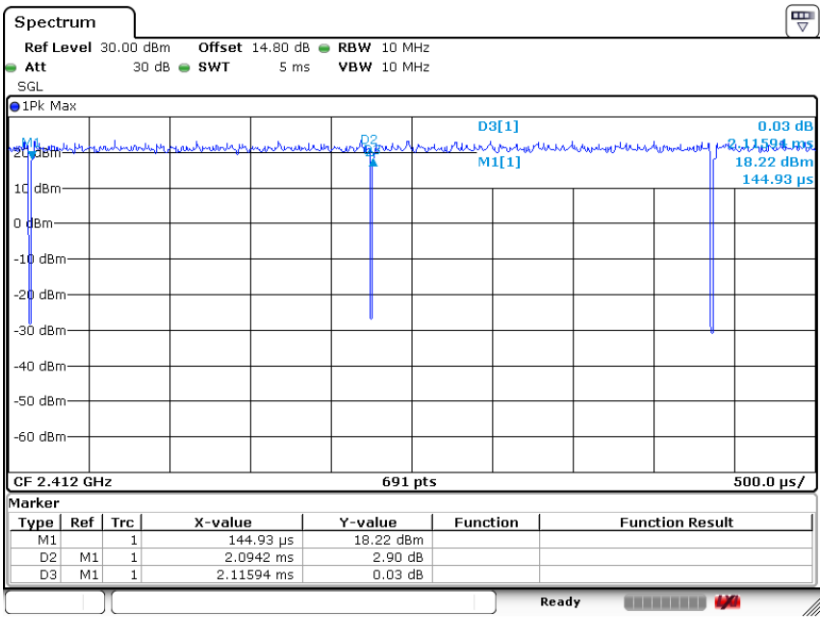
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11b	100	-	-	10Hz
1+2	802.11g	98.97	-	-	10Hz
1+2	802.11n HT20	100	-	-	10Hz
1+2	802.11n HT40	100	-	-	10Hz
1+2	802.11ax HE20	100	-	-	10Hz
1+2	802.11ax HE40	100	-	-	10Hz

<MIMO Ant. 1+2>

802.11b

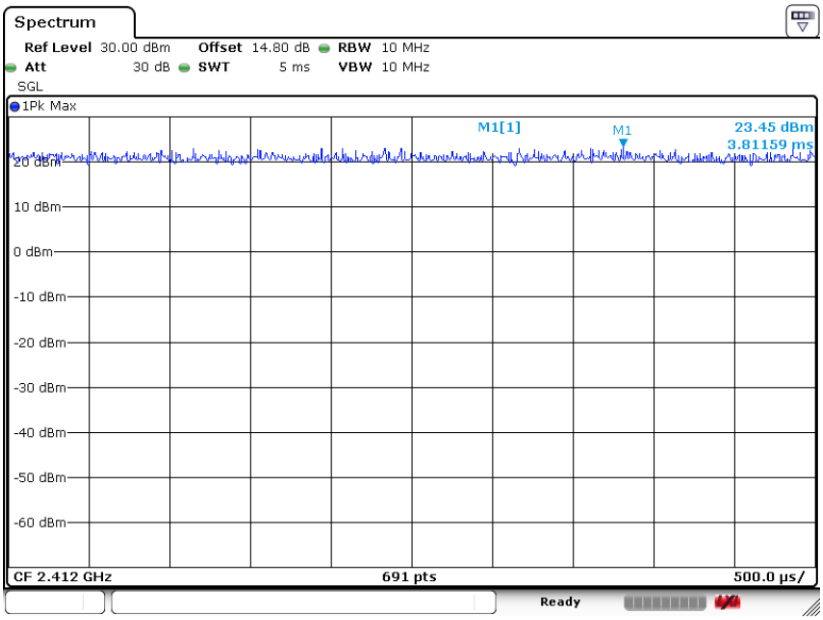


802.11g



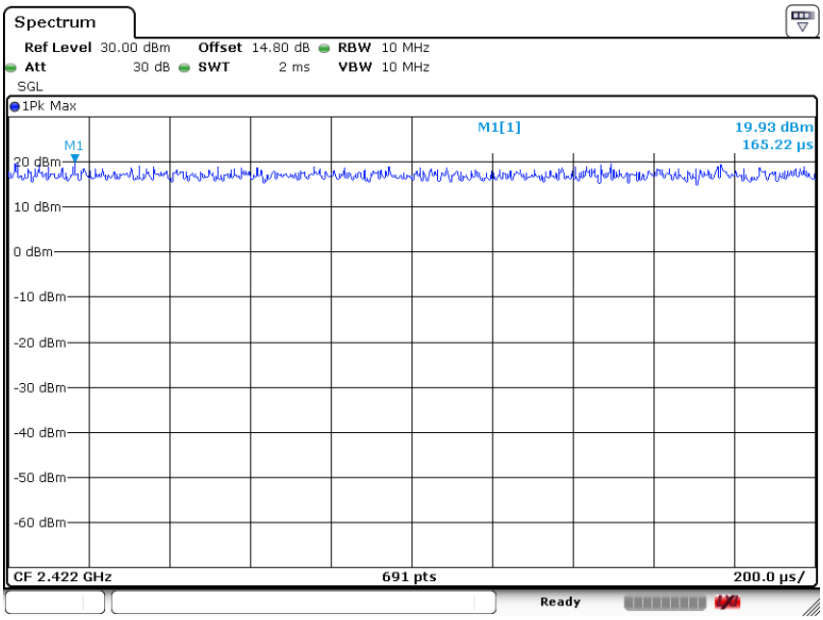
Date: 10.NOV.2020 11:40:37

802.11n HT20



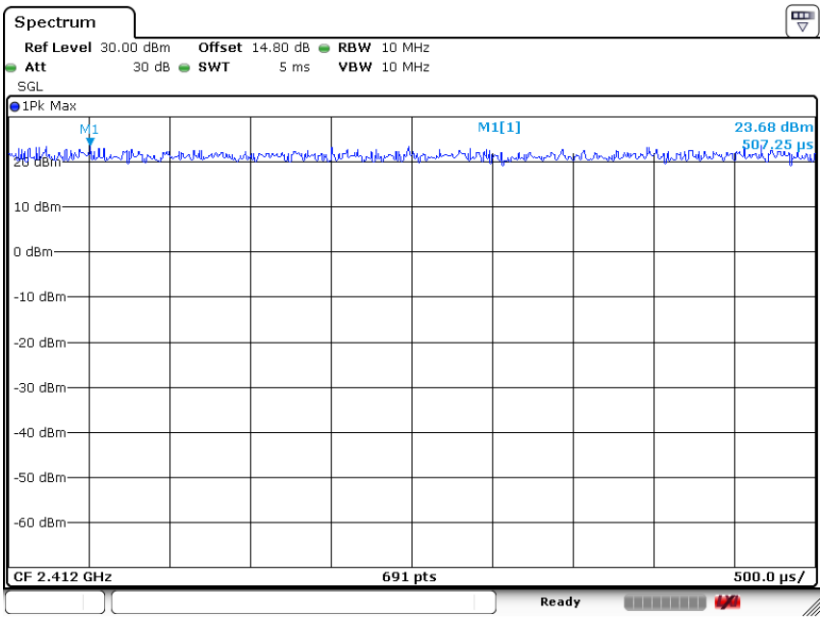
Date: 10.NOV.2020 11:43:31

802.11n HT40



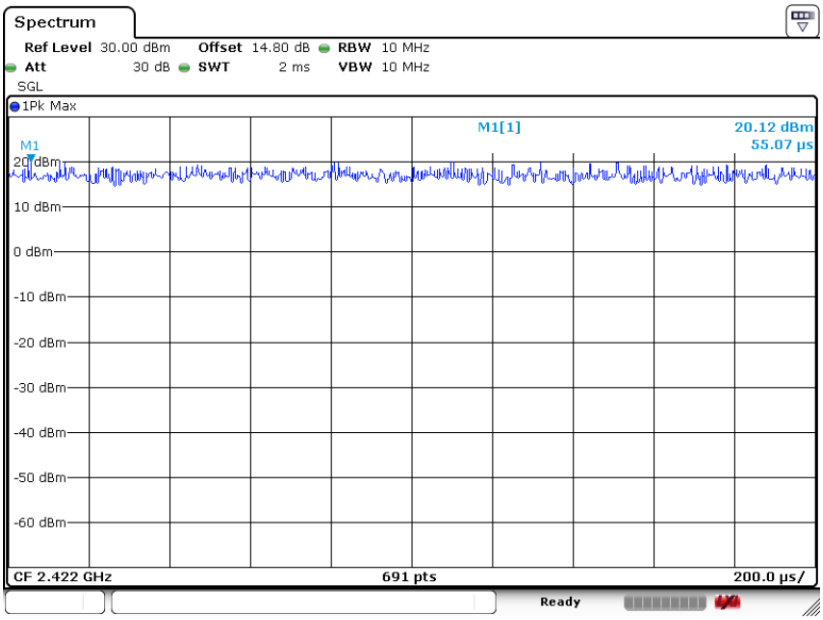
Date: 10.NOV.2020 16:03:49

802.11ax HE20



Date: 10.NOV.2020 11:44:52

802.11ax HE40



Date: 10.NOV.2020 16:04:17