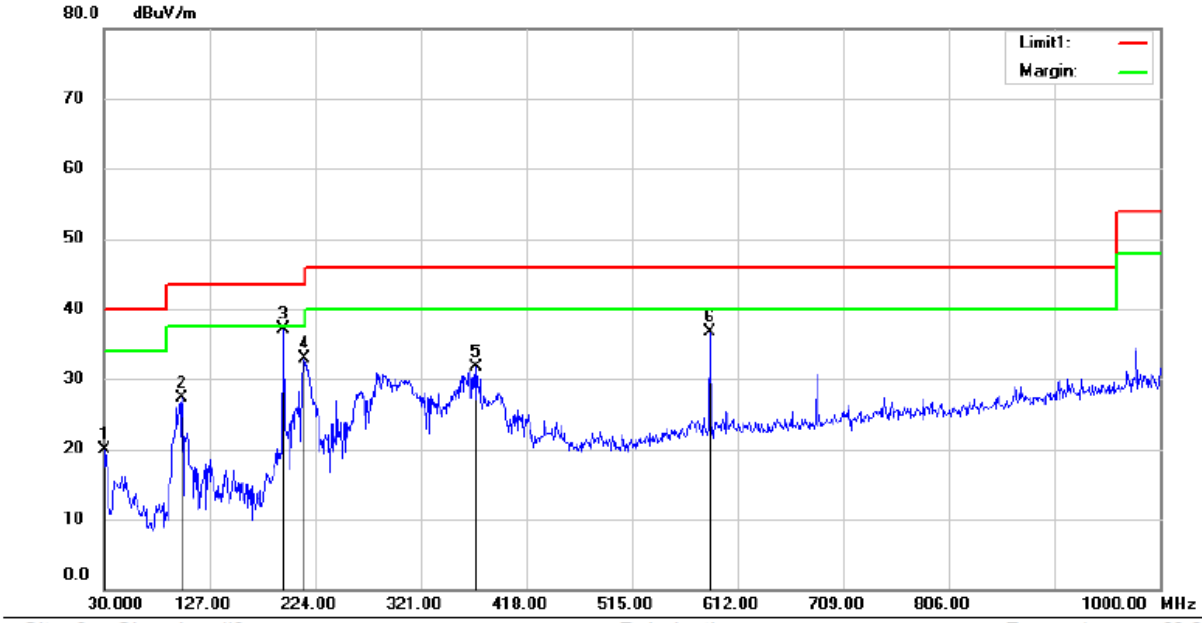


Site 3m Chamber #3 Polarization: *Horizontal* Temperature: 22 C

Limit: (RE)FCC PART 15 Class B Power: AC 120V/60Hz Humidity: 50 %

Mode: 802.11a 5200MHz TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.9700	36.92	-16.95	19.97	40.00	-20.03	QP			
2		101.7800	43.07	-15.82	27.25	43.50	-16.25	QP			
3	*	194.9000	52.78	-15.70	37.08	43.50	-6.42	QP			
4		214.3000	48.43	-15.50	32.93	43.50	-10.57	QP			
5		372.4100	42.22	-10.51	31.71	46.00	-14.29	QP			
6		586.7800	42.09	-5.42	36.67	46.00	-9.33	QP			

*:Maximum data x:Over limit l:over margin Operator: KK

Site 3m Chamber #3 Polarization: *Vertical* Temperature: 22 C

Limit: (RE)FCC PART 15 Class B Power: AC 120V/60Hz Humidity: 50 %

Mode:802.11a 5240MHz TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.9700	48.95	-16.95	32.00	40.00	-8.00	QP			
2		99.8400	45.31	-15.99	29.32	43.50	-14.18	QP			
3	*	194.9000	54.19	-15.70	38.49	43.50	-5.01	QP			
4		218.1800	47.77	-15.19	32.58	46.00	-13.42	QP			
5		286.0800	45.51	-12.79	32.72	46.00	-13.28	QP			
6		586.7800	40.11	-5.42	34.69	46.00	-11.31	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Site 3m Chamber #3 Polarization: *Horizontal* Temperature: 22 C

Limit: (RE)FCC PART 15 Class B Power: AC 120V/60Hz Humidity: 50 %

Mode: 802.11a 5240MHz TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.9700	39.28	-16.95	22.33	40.00	-17.67	QP			
2		101.7800	42.59	-15.82	26.77	43.50	-16.73	QP			
3	*	194.9000	53.29	-15.70	37.59	43.50	-5.91	QP			
4		215.2700	48.35	-15.43	32.92	43.50	-10.58	QP			
5		288.9900	43.54	-12.66	30.88	46.00	-15.12	QP			
6		586.7800	42.03	-5.42	36.61	46.00	-9.39	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

8.6 POWER LINE CONDUCTED EMISSIONS

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

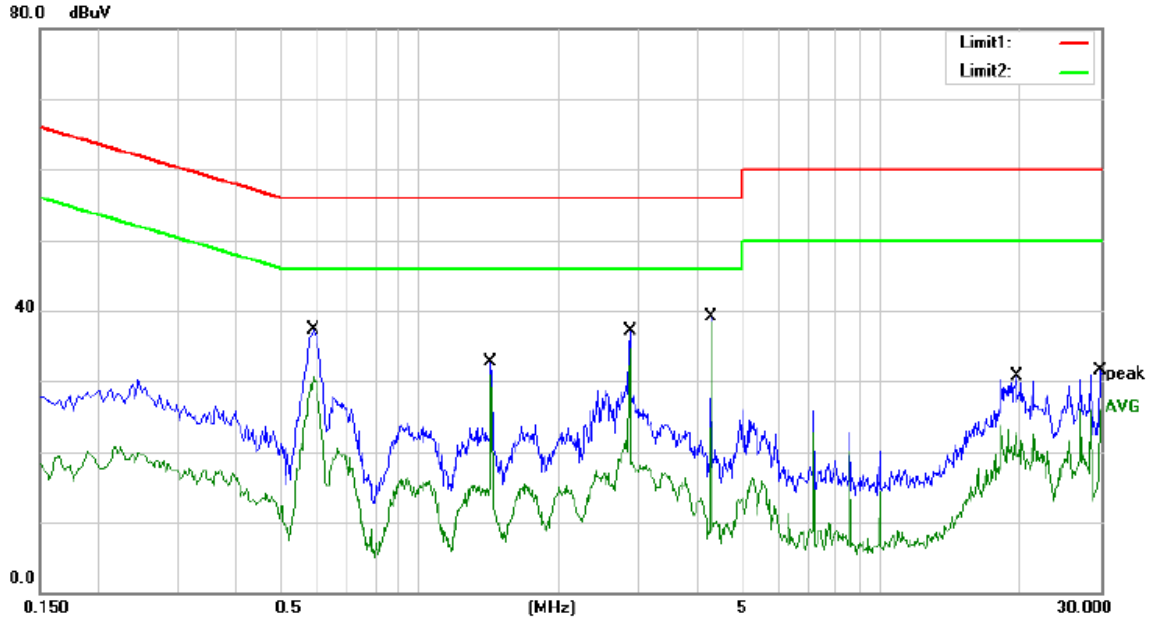
8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

Pass

All mode and the voltage 120V and 240V have been tested, and show the worst result. (802.11a low channel,120V~ 60Hz) as bellow.



Site Conduction #1 Phase: N Temperature: 24.9

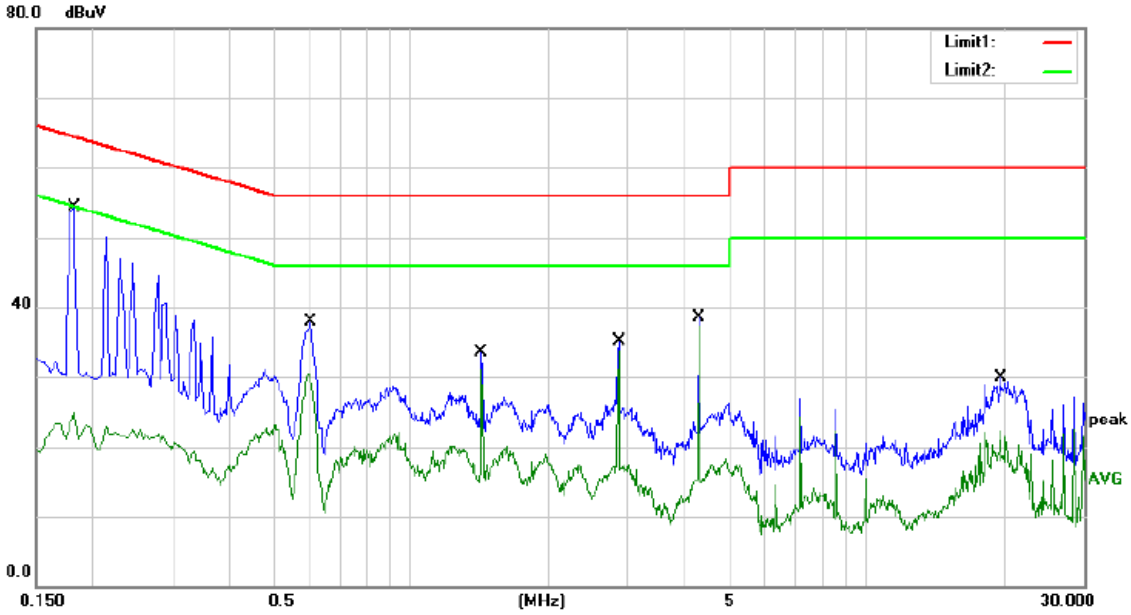
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

Mode: 802.11a 5180MHz TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5900	27.52	9.70	37.22	56.00	-18.78	QP	
2		0.5900	21.09	9.70	30.79	46.00	-15.21	AVG	
3		1.4300	23.03	9.74	32.77	56.00	-23.23	QP	
4		1.4300	21.17	9.74	30.91	46.00	-15.09	AVG	
5		2.8580	27.36	9.80	37.16	56.00	-18.84	QP	
6		2.8580	24.97	9.80	34.77	46.00	-11.23	AVG	
7		4.2860	29.24	9.80	39.04	56.00	-16.96	QP	
8	*	4.2860	28.59	9.80	38.39	46.00	-7.61	AVG	
9		19.7100	20.32	10.48	30.80	60.00	-29.20	QP	
10		19.7100	13.20	10.48	23.68	50.00	-26.32	AVG	
11		29.9980	20.94	10.50	31.44	60.00	-28.56	QP	
12		29.9980	15.68	10.50	26.18	50.00	-23.82	AVG	

*:Maximum data x:Over limit I:over margin Comment: Factor build in receiver. Operator: Chensl



Site Conduction #1 Phase: *L1* Temperature: 24.9

Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

Mode: 802.11a 5180MHz TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1820	44.70	9.61	54.31	64.39	-10.08	QP	
2		0.1820	15.25	9.61	24.86	54.39	-29.53	AVG	
3		0.6020	28.22	9.70	37.92	56.00	-18.08	QP	
4		0.6020	20.89	9.70	30.59	46.00	-15.41	AVG	
5		1.4300	23.85	9.74	33.59	56.00	-22.41	QP	
6		1.4300	21.38	9.74	31.12	46.00	-14.88	AVG	
7		2.8580	25.33	9.80	35.13	56.00	-20.87	QP	
8		2.8580	24.00	9.80	33.80	46.00	-12.20	AVG	
9		4.2860	28.70	9.80	38.50	56.00	-17.50	QP	
10	*	4.2860	27.53	9.80	37.33	46.00	-8.67	AVG	
11		19.7100	19.42	10.48	29.90	60.00	-30.10	QP	
12		19.7100	11.88	10.48	22.36	50.00	-27.64	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Chensl

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

The EUT has a FPC antenna for WIFI, the antenna max gain is 4.09dBi

Note:

☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.