



















8.4 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.4.1 Applicable Standard

According to FCC Part 15.407 (b) According to 789033 D02 Section II(G)

8.4.2 Conformance Limit

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

10110111119 10010 101200(0).			
Restricted	Field Strength (µV/m)	Field Strength	Measurement
Frequency(MHz)		(dBµV/m)	Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section,15.205 Restricted bands of operation

barias of operation			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	12.51975-12.52025 240-285		36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Remark: 1. Emission level in dBuV/m=20 log (uV/m)



- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

8.4.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.4.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW=120kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for <30MHz

(150KHz to 30KHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

RBW = 1 MHz.

Video bandwidth. • If the EUT is configured to transmit with duty cycle \geq 98 percent, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

- If the EUT duty cycle is < 98 percent, set VBW ≥ 1/T, where T is defined in section II.B.1.a). Video bandwidth mode or display mode The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).
- As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.



Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)

Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

The voltage AC120V and the modes 802.11a/n has been tested and the worst result recorded as below



-27

-27

-27

-27

5.1 10.73

6.99

5.62

■ ☑For Undesirable radiated Spurious Emission in U-NII – 1
All the modes 802.11a/n has been tested and the worst result 802.11a recorded as below:
☑Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

63.13

57.50

61.24

62.61

802.11a Frequency(MHz): 5180 Test mode: Ant.Pol. Field Strength Freq. E.I.R.P Margin(d Limit (dBm) (MHz) H/V (dBuV/m) (dBm) B) 7964.98 56.65 -27 11.58 V -38.58 10099.5 V 61.33 -27 6.9 -33.9

-32.1

-37.73

-33.99

-32.62

Test mode:	802.	11a Frequ	ency(MHz): 5200		
Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Margin(d B)
9971.98	V	60.93	-34.3	-27	7.3
12642.3	V	62.59	-32.64	-27	5.64
16656.3	V	63.31	-31.92	-27	4.92
10040.0	H /	60.77	-34.46	-27	7.46
13084.5	Н	63.19	-32.04	-27	5.04
16919.9	Н	64.32	-30.91	-27	3.91

Test mode:	802.	11a Frequ	ency(MHz): 5240		
Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Margin(d B)
8713.35	V	57.88	-37.35	-27	10.35
10006.0	V	60.06	-35.17	-27	8.17
17175.0	V	63.52	-31.71	-27	4.71
8084.04	Н	56.76	-38.47	-27	11.47
10745.8	Н	60.99	-34.24	-27	7.24
15865.4	Н	64.88	-30.35	-27	3.35

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3)EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) 104.77
 - d is the measurement distance in 3 meters

16996.4

8721.86

10771.3

16469.2

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Η

Н

Н



Frequency: 5180								
Freq. (MHz)	Ant.Pol.		ssion dBuV/m)	Limit 3m((dBuV/m)	Marg	in (dB)	
(IVITZ)	H/V	PK	AV	PK	AV	PK	AV	
7964.9825	V	56.65	39.82	74	54	17.35	14.18	
10099.5498	V	61.33	42.92	74	54	12.67	11.08	
16996.4982	V	63.13	46.55	74	54	10.87	7.45	
8721.8609	Н	57.50	42.73	74	54	16.50	11.27	
10771.3857	Η	61.24	44.40	74	54	12.76	9.60	
16469.2346	Н	62.61	45.16	74	54	11.39	8.84	

Frequency: 5200								
Freq.	Ant.Pol.		ission dBuV/m)	Limit 3m	(dBuV/m)	Marg	in (dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
9971.986	V	60.93	45.81	74	54	13.07	8.19	
12642.3212	V	62.59	47.53	74	54	11.41	6.47	
16656.3282	V	63.31	44.64	74	54	10.69	9.36	
10040.02	Н	60.77	46.26	74	54	13.23	7.74	
13084.5423	Н	63.19	47.08	74	54	10.81	6.92	
16919.96	Н	64.32	44.75	74	54	9.68	9.25	

Frequency: 5	Frequency: 5240								
Freq.	Ant.Pol.		ission dBuV/m)	Limit 3m((dBuV/m)	Marg	in (dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV		
8713.3567	V	56.76	42.84	74	54	16.12	11.16		
10006.003	V	60.99	42.09	74	54	13.94	11.91		
17175.0875	V	64.88	46.52	74	54	10.48	7.48		
8084.042	H	56.76	40.72	74	54	17.24	13.28		
10745.8729	Н	60.99	44.77	74	54	13.01	9.23		
15865.4327	Η	64.88	43.71	74	54	9.12	10.29		

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor +Cable Loss. (3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode:	802.11ac	Frequenc	cy(MHz): 5180		
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5140.16	V	52.91	-42.32	-27	Pass
5127.9	Н	53.27	-41.96	-27	Pass

Test mode:	802.11ac	Frequenc	cy(MHz): 5240		
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5357.64	V	53.92	-41.31	-27	Pass
5351.71	Н	54.01	-41.22	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) 104.77

d is the measurement distance in 3 meters

Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5140.16	V	52.91	74.00	44.55	54
5127.9	Н	53.27	74.00	45.09	54

Test mode: 802.11a Frequency(MHz): 5240

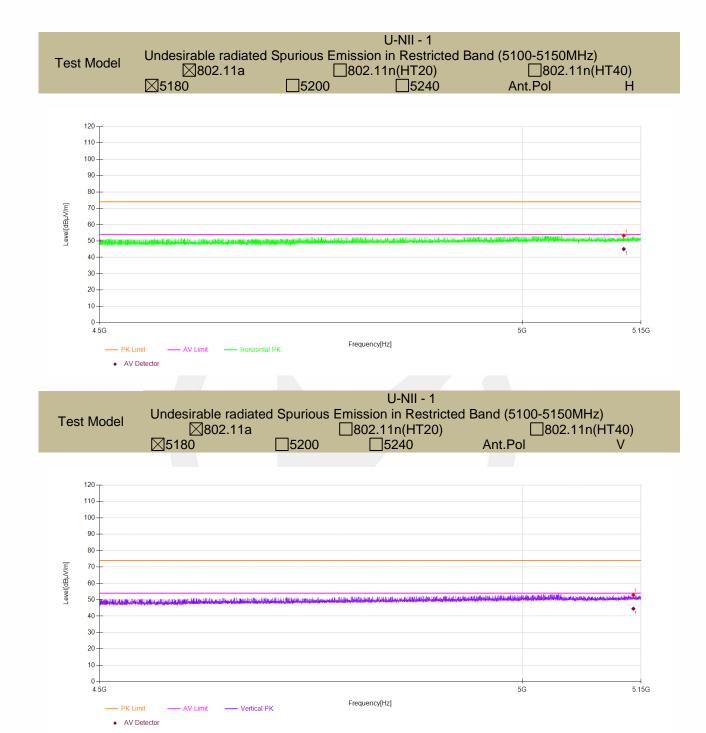
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5357.64	V	53.92	74.00	45.03	54
5351.71	Н	54.01	74.00	44.97	54

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

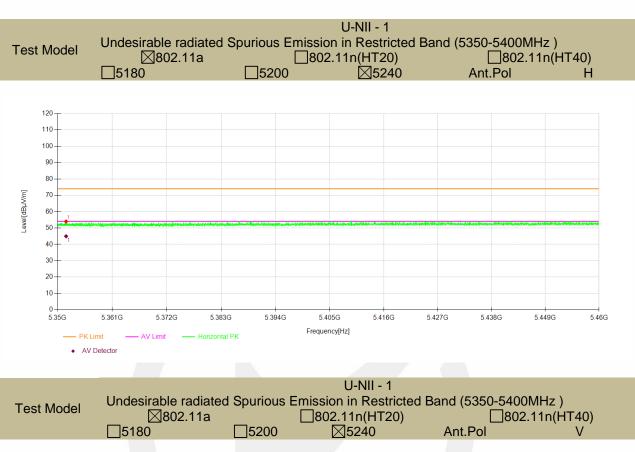
- (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4)Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

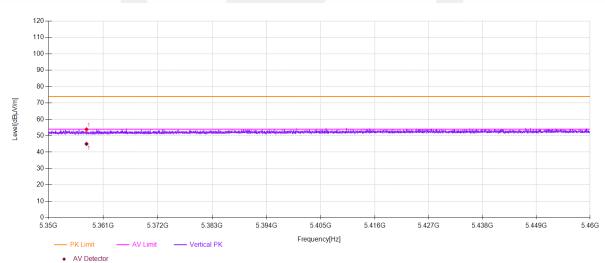
<mark>深圳信测标准技术服务股份有限公司</mark> 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn







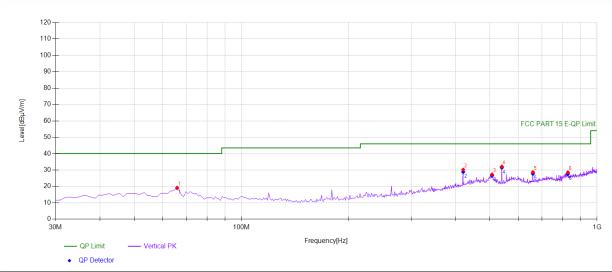






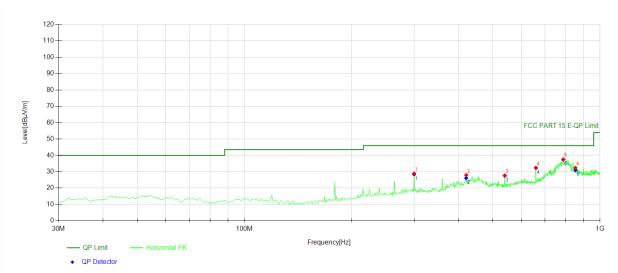
Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
 All the modes 802.11a/n has been tested and the worst result 802.11a recorded as below:

5180



Suspe	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity	
1	65.9259	37.41	-18.24	19.17	PK	40.00	20.83	Vertical	
2	420.330	42.11	-11.87	30.24	PK	46.00	15.76	Vertical	
3	506.746	37.32	-10.00	27.32	PK	46.00	18.68	Vertical	
4	539.759	41.46	-9.34	32.12	PK	46.00	13.88	Vertical	
5	660.160	35.68	-6.97	28.71	PK	46.00	17.29	Vertical	
6	828.138	33.58	-4.99	28.59	PK	46.00	17.41	Vertical	

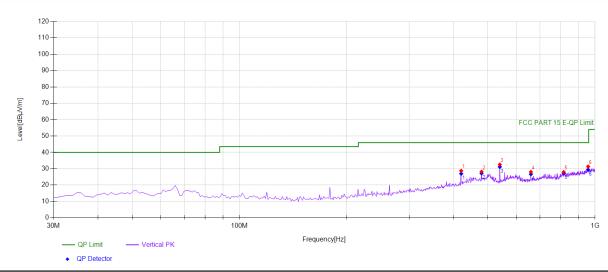




Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	299.929	42.93	-13.99	28.94	PK	46.00	17.06	Horizontal			
2	420.330	39.82	-11.87	27.95	PK	46.00	18.05	Horizontal			
3	539.759	37.09	-9.34	27.75	PK	46.00	18.25	Horizontal			
4	660.160	39.44	-6.97	32.47	PK	46.00	13.53	Horizontal			
5	788.328	44.06	-6.46	37.60	PK	46.00	8.40	Horizontal			
6	852.412	36.51	-4.10	32.41	PK	46.00	13.59	Horizontal			

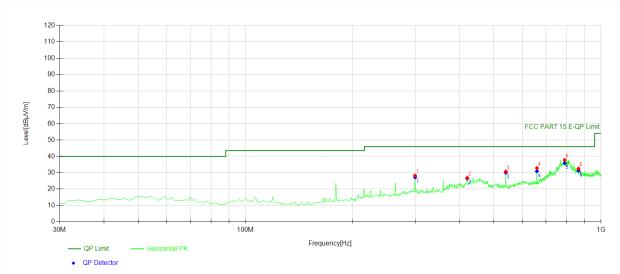


5200



Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	420.330	40.60	-11.87	28.73	PK	46.00	17.27	Vertical			
2	479.559	38.38	-10.17	28.21	PK	46.00	17.79	Vertical			
3	539.759	41.87	-9.34	32.53	PK	46.00	13.47	Vertical			
4	660.160	35.04	-6.97	28.07	PK	46.00	17.93	Vertical			
5	816.486	33.25	-5.26	27.99	PK	46.00	18.01	Vertical			
6	956.306	33.98	-2.64	31.34	PK	46.00	14.66	Vertical			

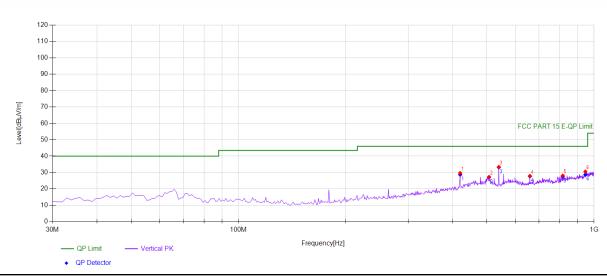




Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	299.929	42.24	-13.99	28.25	PK	46.00	17.75	Horizontal			
2	420.330	38.73	-11.87	26.86	PK	46.00	19.14	Horizontal			
3	539.759	40.05	-9.34	30.71	PK	46.00	15.29	Horizontal			
4	660.160	39.83	-6.97	32.86	PK	46.00	13.14	Horizontal			
5	790.270	44.09	-6.29	37.80	PK	46.00	8.20	Horizontal			
6	864.064	36.32	-3.79	32.53	PK	46.00	13.47	Horizontal			

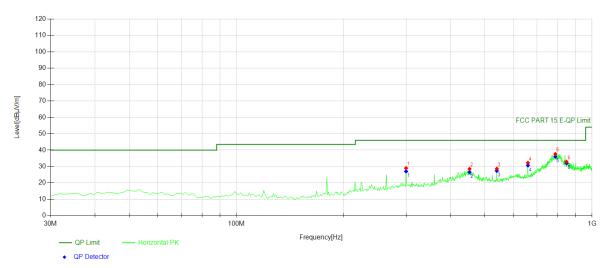


5240



Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	420.330	41.55	-11.87	29.68	PK	46.00	16.32	Vertical			
2	506.746	37.34	-10.00	27.34	PK	46.00	18.66	Vertical			
3	539.759	42.76	-9.34	33.42	PK	46.00	12.58	Vertical			
4	660.160	34.90	-6.97	27.93	PK	46.00	18.07	Vertical			
5	816.486	33.38	-5.26	28.12	PK	46.00	17.88	Vertical			
6	945.625	33.83	-3.23	30.60	PK	46.00	15.40	Vertical			





Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	299.929	43.02	-13.99	29.03	PK	46.00	16.97	Horizontal			
2	452.372	39.24	-10.68	28.56	PK	46.00	17.44	Horizontal			
3	539.759	38.01	-9.34	28.67	PK	46.00	17.33	Horizontal			
4	660.160	39.23	-6.97	32.26	PK	46.00	13.74	Horizontal			
5	788.328	44.10	-6.46	37.64	PK	46.00	8.36	Horizontal			
6	847.557	37.23	-4.32	32.91	PK	46.00	13.09	Horizontal			



8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a)

8.5.2 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.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.5.4 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.

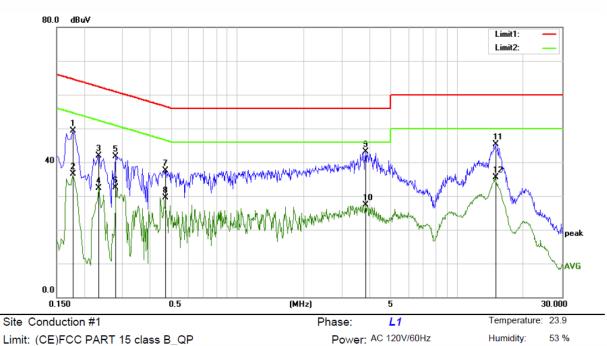
Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

PASS

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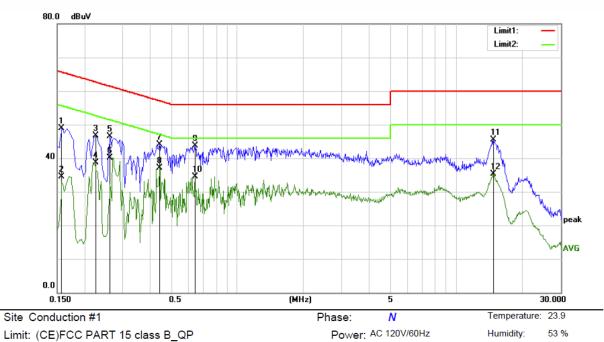
Limit: (CE)FCC PART 15 class B_QP

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1780	39.24	10.04	49.28	64.58	-15.30	QP	
2		0.1780	26.46	10.04	36.50	54.58	-18.08	AVG	
3		0.2340	31.98	10.02	42.00	62.31	-20.31	QP	
4		0.2340	22.32	10.02	32.34	52.31	-19.97	AVG	
5		0.2780	31.63	10.04	41.67	60.88	-19.21	QP	
6		0.2780	22.53	10.04	32.57	50.88	-18.31	AVG	
7		0.4700	27.49	9.95	37.44	56.51	-19.07	QP	
8		0.4700	19.61	9.95	29.56	46.51	-16.95	AVG	
9	*	3.8220	33.04	9.97	43.01	56.00	-12.99	QP	
10		3.8220	17.31	9.97	27.28	46.00	-18.72	AVG	
11		14.9620	34.91	10.30	45.21	60.00	-14.79	QP	
12		14.9620	25.12	10.30	35.42	50.00	-14.58	AVG	





Limit: (CE)FCC PART 15 class B_QP

Mode: WIFI Mode

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	38.97	10.02	48.99	65.57	-16.58	QP	
2	0.1580	24.54	10.02	34.56	55.57	-21.01	AVG	
3	0.2260	36.63	10.02	46.65	62.60	-15.95	QP	
4	0.2260	28.67	10.02	38.69	52.60	-13.91	AVG	
5	0.2620	36.39	10.03	46.42	61.37	-14.95	QP	
6	0.2620	30.07	10.03	40.10	51.37	-11.27	AVG	
7	0.4420	34.08	9.94	44.02	57.02	-13.00	QP	
8 *	0.4420	27.12	9.94	37.06	47.02	-9.96	AVG	
9	0.6420	33.63	9.99	43.62	56.00	-12.38	QP	
10	0.6420	24.54	9.99	34.53	46.00	-11.47	AVG	
11	14.8260	35.18	10.30	45.48	60.00	-14.52	QP	
12	14.8260	25.05	10.30	35.35	50.00	-14.65	AVG	



8.6 ANTENNA APPLICATION

8.6.1 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.

8.6.2	Result	
PASS.		
The EU Note:	JT has ⊠ □ □	antennas: an Internal Antenna for WIFI 5G, the antenna gain is 1.0 dBi Antennas 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.



Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

----- END OF REPORT -----