

7.3. Output Power Measurement

7.3.1. Test Limit

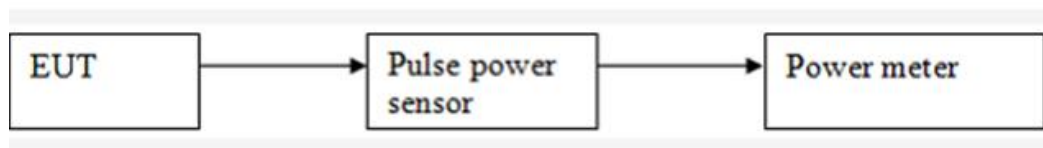
The FCC 15.407(a), The maximum conducted output power should not exceed:

Band	EUT Type	Limit
U-NII-3	All Device	1W(30dBm)

7.3.2. Test Setting

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

7.3.3. Test Setup



7.3.4. Test Result

U-NII-3:

Test Mode	Antenna	Frequency [MHz]	AVG Conducted Output Power with Duty Factor (dBm)	Limit [dBm]	Verdict
IEEE 802.11a	Ant1	5745	5.87	≤ 30	PASS
	Ant1	5785	4.21	≤ 30	PASS
	Ant1	5825	3.08	≤ 30	PASS
IEEE 802.11n HT20	Ant1	5745	5.42	≤ 30	PASS
	Ant1	5785	3.97	≤ 30	PASS
	Ant1	5825	2.69	≤ 30	PASS
IEEE 802.11n HT40	Ant1	5755	5.36	≤ 30	PASS
	Ant1	5795	4.05	≤ 30	PASS
IEEE 802.11ac VHT20	Ant1	5745	5.23	≤ 30	PASS
	Ant1	5785	3.68	≤ 30	PASS
	Ant1	5825	2.63	≤ 30	PASS
IEEE 802.11ac VHT40	Ant1	5755	3.75	≤ 30	PASS
	Ant1	5795	3.61	≤ 30	PASS
IEEE 802.11ac VHT80	Ant1	5775	4.67	≤ 30	PASS

Note: 1. Result already includes duty factor, 5745MHz~5825MHz antenna gain is 3.5dBi.

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

Section 15.407(a)

The maximum power spectral density should not exceed:

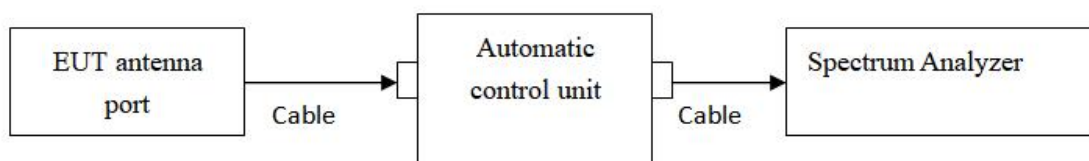
Band	EUT Type	Limit
U-NII-3	All Device	30dBm/500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.4.2. Test Setting

Spectrum Parameters	Setting
RBW	500kHz(For U-NII-3)
VBW	2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

7.4.3. Test Setup



7.4.4. Test Result

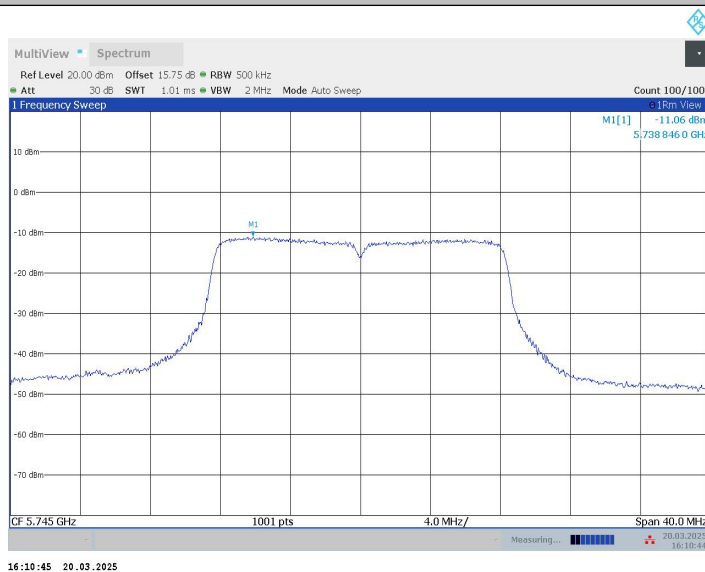
U-NII-3:

Test Mode	Antenna	Frequency [MHz]	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
IEEE 802.11a	Ant1	5745	-11.06	≤ 30	PASS
	Ant1	5785	-11.78	≤ 30	PASS
	Ant1	5825	-13.20	≤ 30	PASS
IEEE 802.11n HT20	Ant1	5745	-11.11	≤ 30	PASS
	Ant1	5785	-12.00	≤ 30	PASS
	Ant1	5825	-13.65	≤ 30	PASS
IEEE 802.11n HT40	Ant1	5755	-13.22	≤ 30	PASS
	Ant1	5795	-14.21	≤ 30	PASS
IEEE 802.11ac VHT20	Ant1	5745	-10.88	≤ 30	PASS
	Ant1	5785	-12.27	≤ 30	PASS
	Ant1	5825	-13.61	≤ 30	PASS
IEEE 802.11ac VHT40	Ant1	5755	-13.31	≤ 30	PASS
	Ant1	5795	-14.44	≤ 30	PASS
IEEE 802.11ac VHT80	Ant1	5775	-15.27	≤ 30	PASS

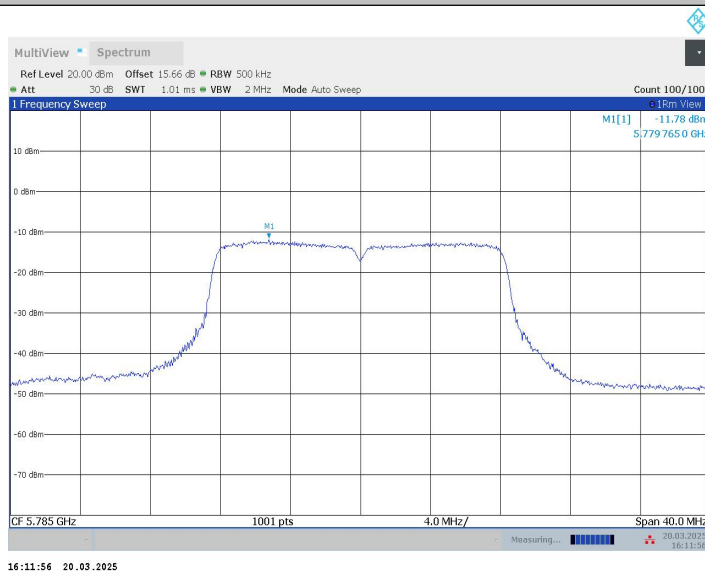
Note: 1. Result already includes duty factor, 5745MHz~5825MHz antenna gain is 3.5dBi.

Test Graphs

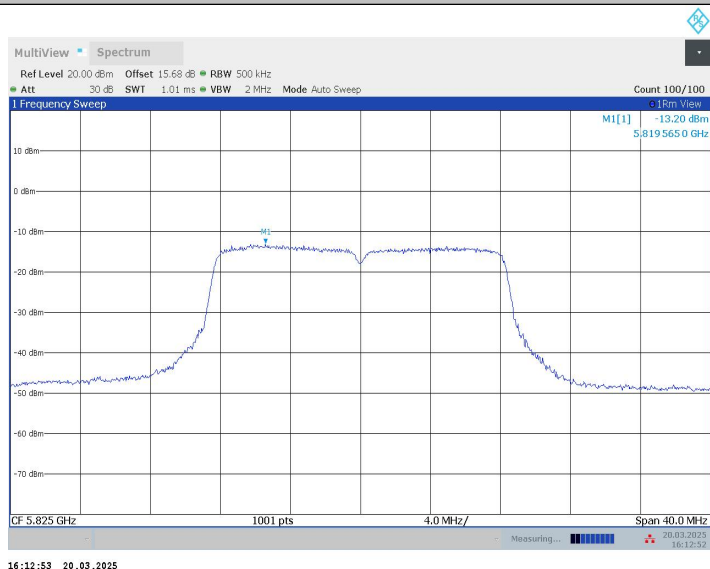
IEEE 802.11a_Ant1_5745MHz



IEEE 802.11a_Ant1_5785MHz

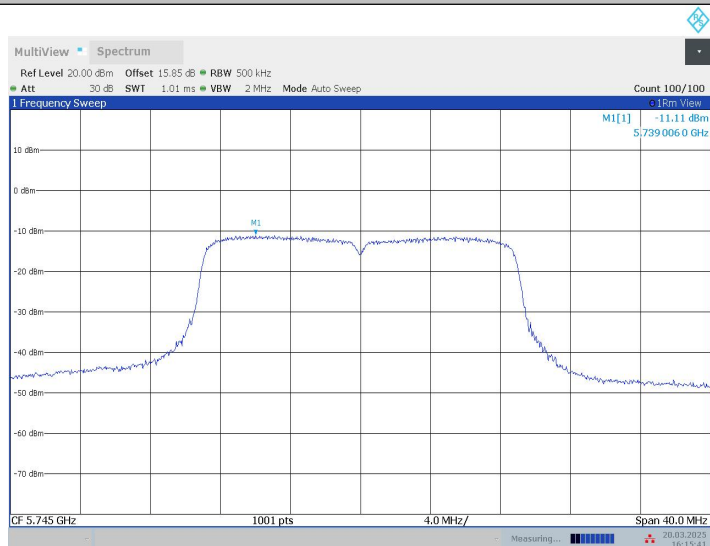


IEEE 802.11a_Ant1_5825MHz



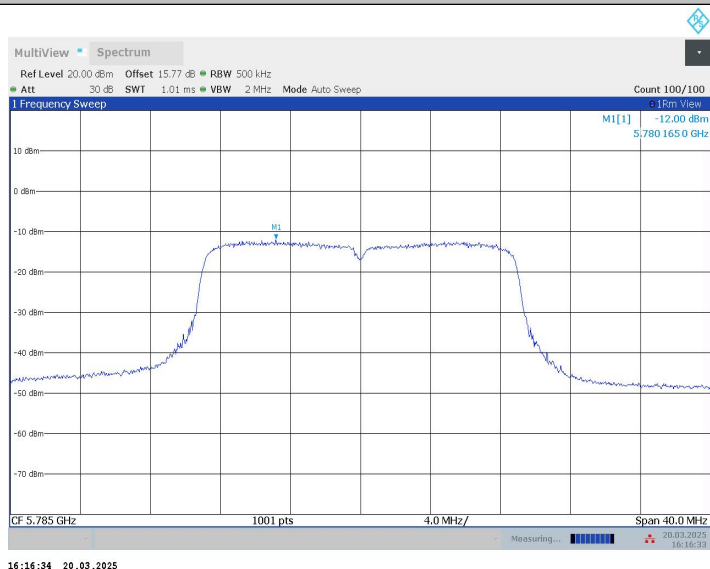
16:12:53 20.03.2025

IEEE 802.11n HT20_Ant1_5745MHz



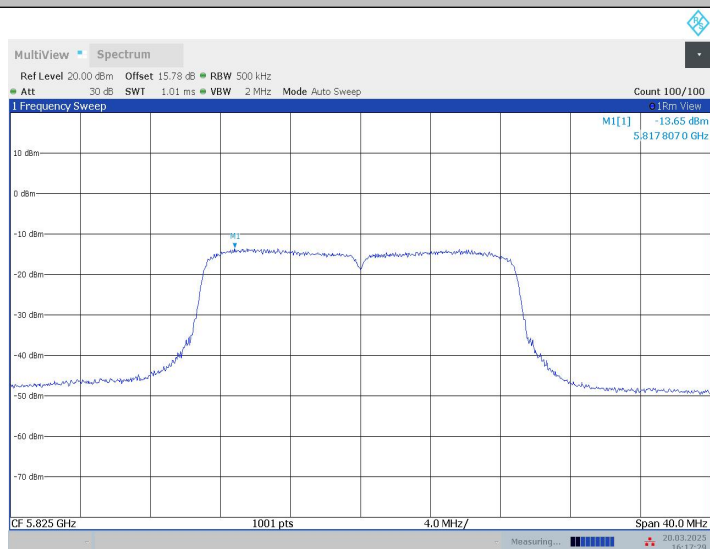
16:15:42 20.03.2025

IEEE 802.11n HT20_Ant1_5785MHz



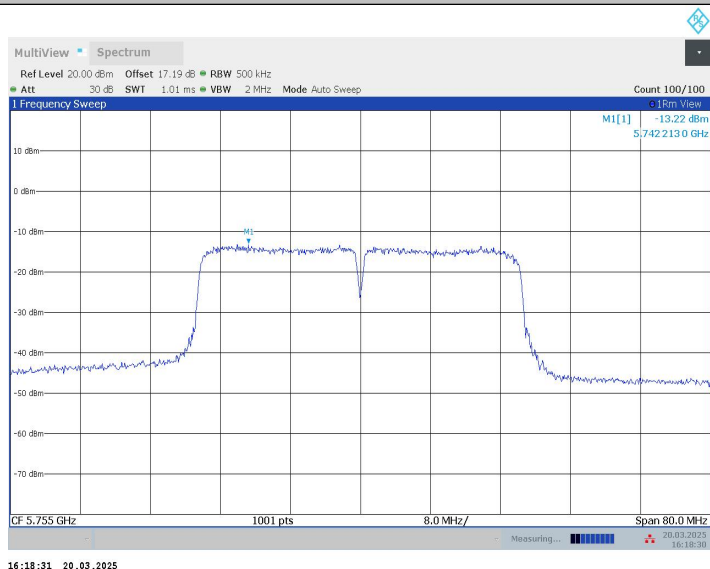
16:16:34 20.03.2025

IEEE 802.11n HT20_Ant1_5825MHz

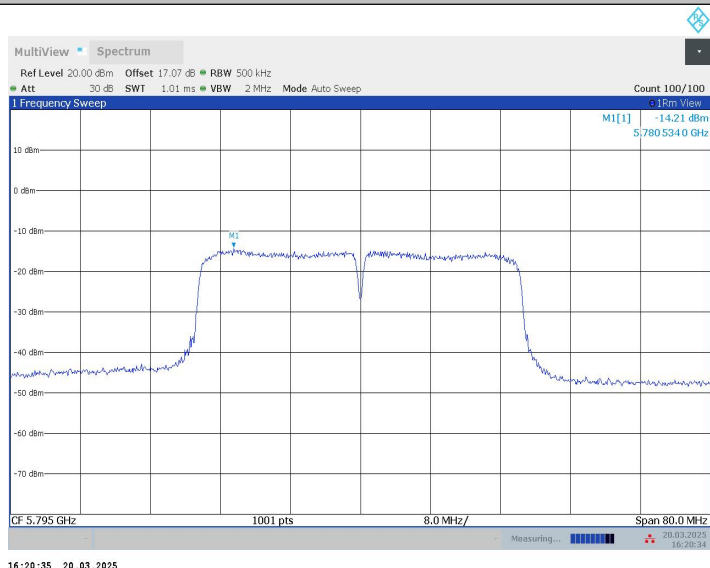


16:17:29 20.03.2025

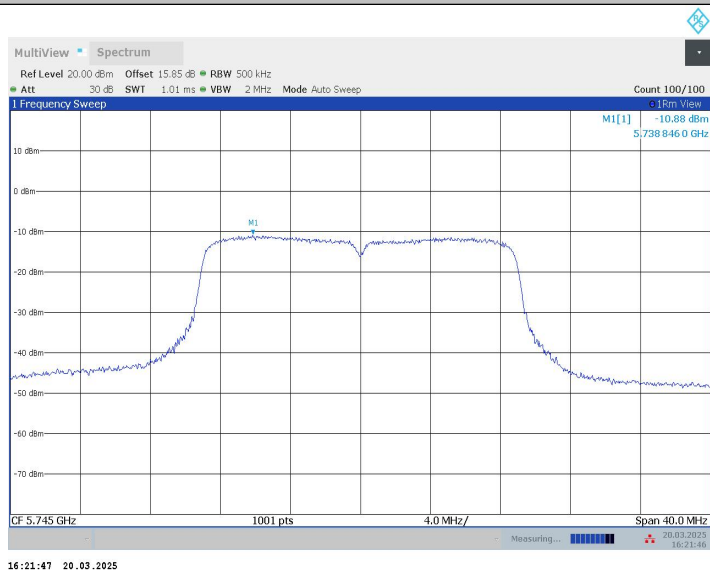
IEEE 802.11n HT40_Ant1_5755MHz



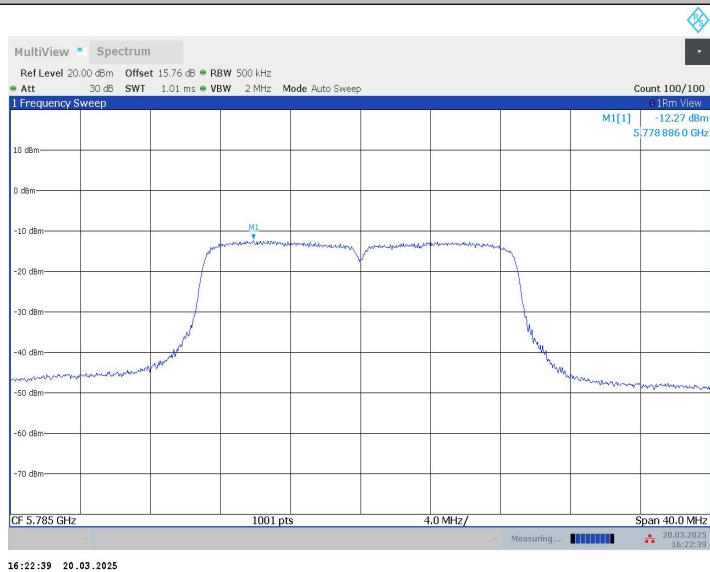
IEEE 802.11n HT40_Ant1_5795MHz



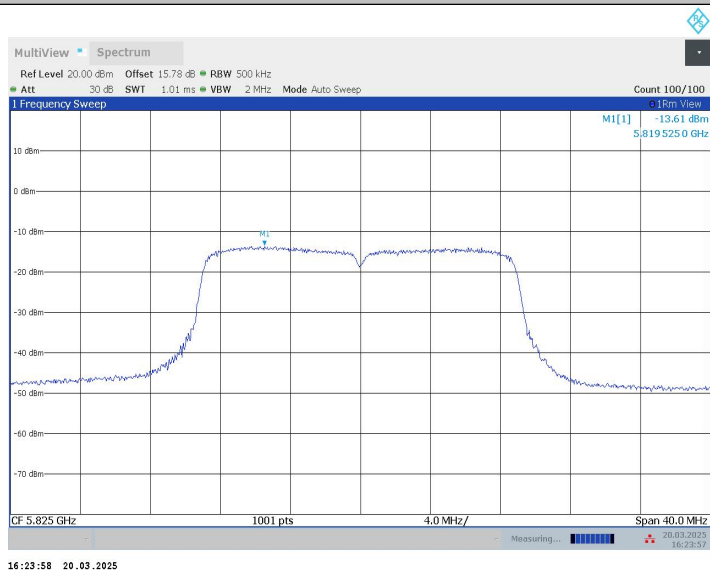
IEEE 802.11ac VHT20_Ant1_5745MHz



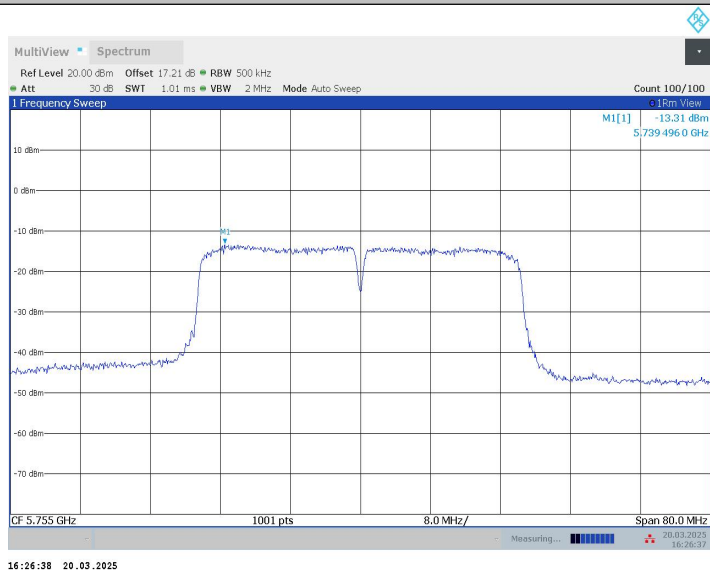
IEEE 802.11ac VHT20_Ant1_5785MHz



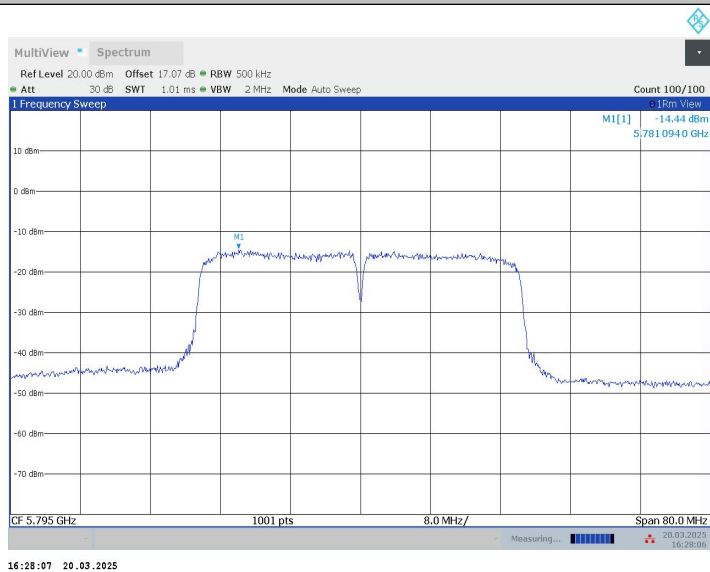
IEEE 802.11ac VHT20_Ant1_5825MHz



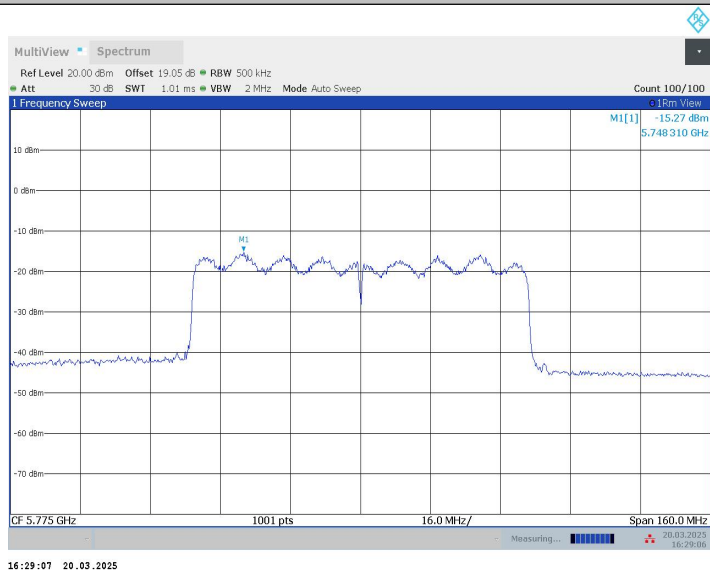
IEEE 802.11ac VHT40_Ant1_5755MHz



IEEE 802.11ac VHT40_Ant1_5795MHz



IEEE 802.11ac VHT80_Ant1_5775MHz



7.5. Frequency Stability Measurement

7.5.1. Test Limit

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

7.5.2. Test Setting

Frequency Stability Under Temperature Variations:

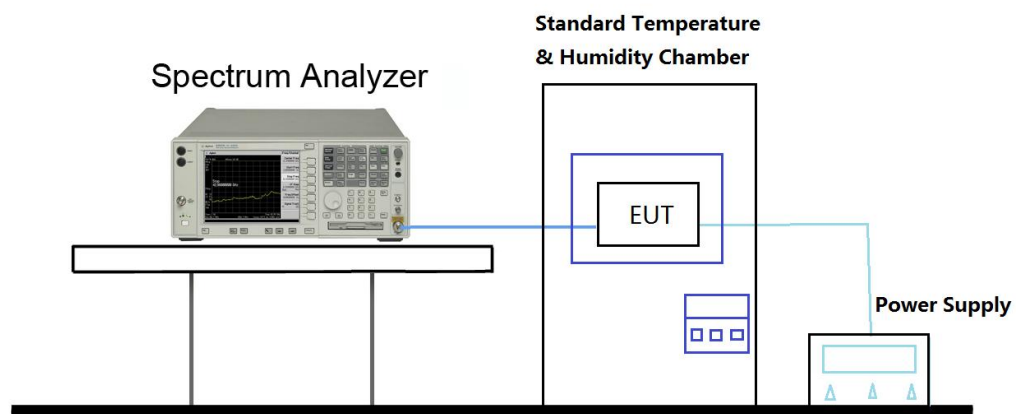
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.5.3. Test Setup



7.5.4. Test Result

Test Mode	Antenna	Freq (MHz)	Voltage					Verdict
			Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
IEEE 802.11a	Ant1	5745	NV	NT	-27000.00	-4.699739	20	PASS
			LV	NT	-26000.00	-4.525674	20	PASS
			HV	NT	-25000.00	-4.351610	20	PASS
		5785	NV	NT	-27000.00	-4.667243	20	PASS
			LV	NT	-26000.00	-4.494382	20	PASS
			HV	NT	-25000.00	-4.321521	20	PASS
		5825	NV	NT	-26000.00	-4.463519	20	PASS
			LV	NT	-24000.00	-4.120172	20	PASS
			HV	NT	-24000.00	-4.120172	20	PASS
IEEE 802.11n HT20	Ant1	5745	NV	NT	-24000.00	-4.177546	20	PASS
			LV	NT	-23000.00	-4.003481	20	PASS
			HV	NT	-24000.00	-4.177546	20	PASS
		5785	NV	NT	-23000.00	-3.975799	20	PASS
			LV	NT	-27000.00	-4.667243	20	PASS
			HV	NT	-23000.00	-3.975799	20	PASS
		5825	NV	NT	-23000.00	-3.948498	20	PASS
			LV	NT	-23000.00	-3.948498	20	PASS
			HV	NT	-23000.00	-3.948498	20	PASS
IEEE 802.11n HT40	Ant1	5755	NV	NT	-23000.00	-3.996525	20	PASS
			LV	NT	-23000.00	-3.996525	20	PASS
			HV	NT	-23000.00	-3.996525	20	PASS
		5795	NV	NT	-10000.00	-1.725626	20	PASS
			LV	NT	-14000.00	-2.415876	20	PASS
			HV	NT	-17000.00	-2.933563	20	PASS
IEEE 802.11ac VHT20	Ant1	5745	NV	NT	-24000.00	-4.177546	20	PASS
			LV	NT	-24000.00	-4.177546	20	PASS
			HV	NT	-24000.00	-4.177546	20	PASS
		5785	NV	NT	-26000.00	-4.494382	20	PASS
			LV	NT	-23000.00	-3.975799	20	PASS
			HV	NT	-22000.00	-3.802939	20	PASS
		5825	NV	NT	-24000.00	-4.120172	20	PASS
			LV	NT	-24000.00	-4.120172	20	PASS

			HV	NT	-24000.00	-4.120172	20	PASS
IEEE 802.11ac VHT40	Ant1	5755	NV	NT	-23000.00	-3.996525	20	PASS
			LV	NT	-23000.00	-3.996525	20	PASS
			HV	NT	-23000.00	-3.996525	20	PASS
		5795	NV	NT	-23000.00	-3.968939	20	PASS
			LV	NT	-23000.00	-3.968939	20	PASS
			HV	NT	-23000.00	-3.968939	20	PASS
IEEE 802.11ac VHT80	Ant1	5775	NV	NT	1000.00	0.173160	20	PASS
			LV	NT	4000.00	0.692641	20	PASS
			HV	NT	6000.00	1.038961	20	PASS

Temperature								
Test Mode	Antenna	Freq (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
IEEE 802.11a	Ant1	5745	NV	-20	-24000.00	-4.177546	20	PASS
			NV	-10	-24000.00	-4.177546	20	PASS
			NV	0	-28000.00	-4.873803	20	PASS
			NV	10	-24000.00	-4.177546	20	PASS
			NV	20	-24000.00	-4.177546	20	PASS
			NV	30	-24000.00	-4.177546	20	PASS
			NV	40	-24000.00	-4.177546	20	PASS
			NV	50	-24000.00	-4.177546	20	PASS
		5785	NV	-20	-24000.00	-4.148660	20	PASS
			NV	-10	-24000.00	-4.148660	20	PASS
			NV	0	-23000.00	-3.975799	20	PASS
			NV	10	-23000.00	-3.975799	20	PASS
			NV	20	-23000.00	-3.975799	20	PASS
			NV	30	-23000.00	-3.975799	20	PASS
			NV	40	-23000.00	-3.975799	20	PASS
			NV	50	-23000.00	-3.975799	20	PASS
		5825	NV	-20	-23000.00	-3.948498	20	PASS
			NV	-10	-23000.00	-3.948498	20	PASS
			NV	0	-23000.00	-3.948498	20	PASS
			NV	10	-23000.00	-3.948498	20	PASS
			NV	20	-23000.00	-3.948498	20	PASS
			NV	30	-23000.00	-3.948498	20	PASS
			NV	40	-23000.00	-3.948498	20	PASS
			NV	40	-23000.00	-3.948498	20	PASS

			NV	50	-23000.00	-3.948498	20	PASS
IEEE 802.11n HT20	Ant1	5745	NV	-20	-24000.00	-4.177546	20	PASS
			NV	-10	-24000.00	-4.177546	20	PASS
			NV	0	-24000.00	-4.177546	20	PASS
			NV	10	-24000.00	-4.177546	20	PASS
			NV	20	-24000.00	-4.177546	20	PASS
			NV	30	-24000.00	-4.177546	20	PASS
			NV	40	-24000.00	-4.177546	20	PASS
			NV	50	-24000.00	-4.177546	20	PASS
		5785	NV	-20	-23000.00	-3.975799	20	PASS
			NV	-10	-23000.00	-3.975799	20	PASS
			NV	0	-22000.00	-3.802939	20	PASS
			NV	10	-22000.00	-3.802939	20	PASS
			NV	20	-22000.00	-3.802939	20	PASS
			NV	30	-23000.00	-3.975799	20	PASS
			NV	40	-22000.00	-3.802939	20	PASS
			NV	50	-26000.00	-4.494382	20	PASS
		5825	NV	-20	-23000.00	-3.948498	20	PASS
			NV	-10	-23000.00	-3.948498	20	PASS
			NV	0	-23000.00	-3.948498	20	PASS
			NV	10	-23000.00	-3.948498	20	PASS
			NV	20	-24000.00	-4.120172	20	PASS
			NV	30	-24000.00	-4.120172	20	PASS
			NV	40	-24000.00	-4.120172	20	PASS
			NV	50	-24000.00	-4.120172	20	PASS
IEEE 802.11n HT40	Ant1	5755	NV	-20	-23000.00	-3.996525	20	PASS
			NV	-10	-23000.00	-3.996525	20	PASS
			NV	0	-23000.00	-3.996525	20	PASS
			NV	10	-23000.00	-3.996525	20	PASS
			NV	20	-23000.00	-3.996525	20	PASS
			NV	30	-23000.00	-3.996525	20	PASS
			NV	40	-23000.00	-3.996525	20	PASS
			NV	50	-23000.00	-3.996525	20	PASS
		5795	NV	-20	-20000.00	-3.451251	20	PASS
			NV	-10	-20000.00	-3.451251	20	PASS
			NV	0	-21000.00	-3.623814	20	PASS
			NV	10	-21000.00	-3.623814	20	PASS

			NV	20	-22000.00	-3.796376	20	PASS
			NV	30	-22000.00	-3.796376	20	PASS
			NV	40	-22000.00	-3.796376	20	PASS
			NV	50	-22000.00	-3.796376	20	PASS
IEEE 802.11ac VHT20	Ant1	5745	NV	-20	-23000.00	-4.003481	20	PASS
			NV	-10	-24000.00	-4.177546	20	PASS
			NV	0	-23000.00	-4.003481	20	PASS
			NV	10	-23000.00	-4.003481	20	PASS
			NV	20	-23000.00	-4.003481	20	PASS
			NV	30	-23000.00	-4.003481	20	PASS
			NV	40	-23000.00	-4.003481	20	PASS
			NV	50	-23000.00	-4.003481	20	PASS
		5785	NV	-20	-22000.00	-3.802939	20	PASS
			NV	-10	-22000.00	-3.802939	20	PASS
			NV	0	-23000.00	-3.975799	20	PASS
			NV	10	-23000.00	-3.975799	20	PASS
			NV	20	-23000.00	-3.975799	20	PASS
			NV	30	-22000.00	-3.802939	20	PASS
			NV	40	-23000.00	-3.975799	20	PASS
			NV	50	-23000.00	-3.975799	20	PASS
		5825	NV	-20	-24000.00	-4.120172	20	PASS
			NV	-10	-24000.00	-4.120172	20	PASS
			NV	0	-24000.00	-4.120172	20	PASS
			NV	10	-24000.00	-4.120172	20	PASS
			NV	20	-24000.00	-4.120172	20	PASS
			NV	30	-24000.00	-4.120172	20	PASS
			NV	40	-24000.00	-4.120172	20	PASS
			NV	50	-24000.00	-4.120172	20	PASS
IEEE 802.11ac VHT40	Ant1	5755	NV	-20	-23000.00	-3.996525	20	PASS
			NV	-10	-23000.00	-3.996525	20	PASS
			NV	0	-23000.00	-3.996525	20	PASS
			NV	10	-23000.00	-3.996525	20	PASS
			NV	20	-23000.00	-3.996525	20	PASS
			NV	30	-23000.00	-3.996525	20	PASS
			NV	40	-23000.00	-3.996525	20	PASS
			NV	50	-23000.00	-3.996525	20	PASS
		5795	NV	-20	-23000.00	-3.968939	20	PASS

			NV	-10	-23000.00	-3.968939	20	PASS
			NV	0	-23000.00	-3.968939	20	PASS
			NV	10	-23000.00	-3.968939	20	PASS
			NV	20	-23000.00	-3.968939	20	PASS
			NV	30	-23000.00	-3.968939	20	PASS
			NV	40	-23000.00	-3.968939	20	PASS
			NV	50	-23000.00	-3.968939	20	PASS
IEEE 802.11ac VHT80	Ant1	5775	NV	-20	10000.00	1.731602	20	PASS
			NV	-10	12000.00	2.077922	20	PASS
			NV	0	13000.00	2.251082	20	PASS
			NV	10	14000.00	2.424242	20	PASS
			NV	20	15000.00	2.597403	20	PASS
			NV	30	16000.00	2.770563	20	PASS
			NV	40	17000.00	2.943723	20	PASS
			NV	50	18000.00	3.116883	20	PASS

Note: 1.This report records the worst case of temperature change test observation time 0/2/5/10min .

2.Test Voltage-NV:DC 12V, Test Voltage-LV:DC 10.2V, Test Voltage-HV:DC 13.8V.

3.Test Temperature Range:-20℃~50℃, Temperature-NT: 23.1℃.

4.Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) 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.
- (2) 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.
- (3) 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.
- (4) 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 unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

7.6.2. Test Setting

- a) EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b) EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c) Set the EUT transmit continuously with maximum output power.
- d) The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e) The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f) Spectrum analyzer setting parameters please see the below table.
- g) Repeat above procedures until all channels were measured.
- h) Record the results in the test report.

For 9kHz-150kHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9kHz
Stop frequency	150kHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note: For 9kHz-90kHz&110kHz-150kHz,the detector is average,other frequency is CISPR QP detector.

For 150kHz-30MHz

Spectrum Parameters	Setting
RBW	9kHz
VBW	9kHz
Start frequency	150kHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note: For 150kHz-490kHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120kHz
VBW	300kHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq$ 98%,VBW=10Hz Duty cycle $<$ 98%,VBW $\geq$ 1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

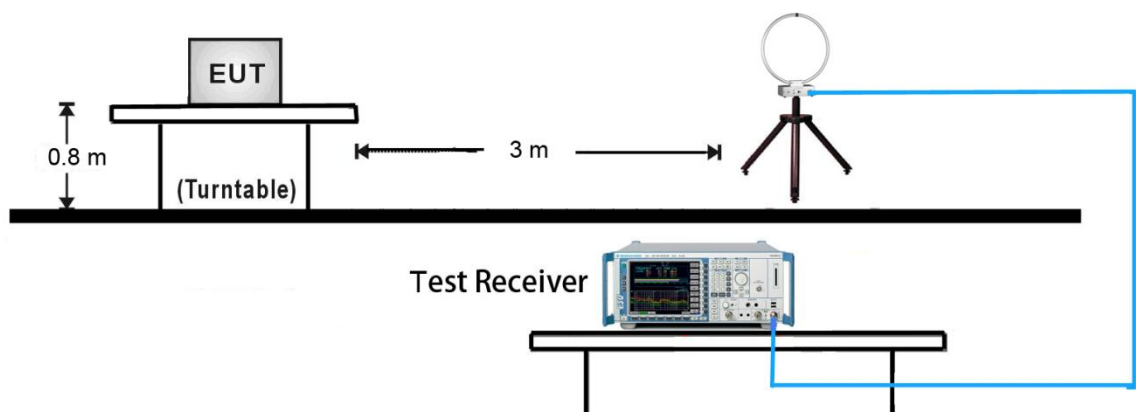
Note:

- (1) T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.9 for the on-time time.
- (2) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

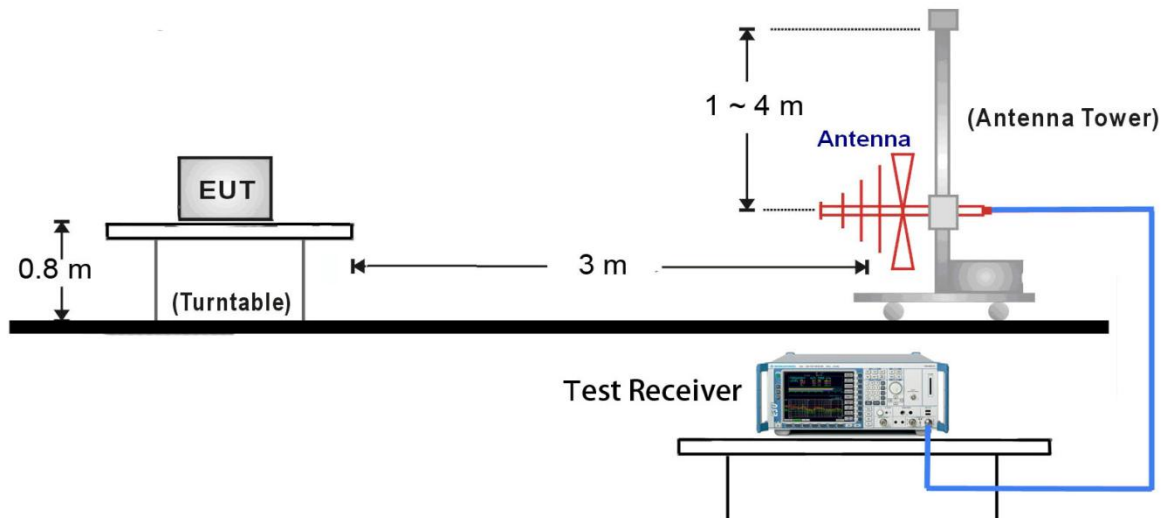
$$E = \text{EIRP} - 20 \log D + 104.8$$
 where:
 E = electric field strength in dB μ V/m,
 EIRP = equivalent isotropic radiated power in dBm
 D = specified measurement distance in meters.
 So: $E = -27 - 20 \log 3 + 104.8 = 68.3 \text{ (dB}\mu\text{V/m)}.$
- (3) The unwanted emissions which fall in Restricted bands shall not exceed the field strength ,Above 18G test distance is 1m, so the Peak Limit= $74 + 20 \cdot \log(3/1) = 83.54 \text{ (dB}\mu\text{V/m)}.$
 The Avg Limit= $54 + 20 \cdot \log(3/1) = 63.54 \text{ (dB}\mu\text{V/m)}.$
- (4) The maximum emissions of the operation frequency bands ,Above 18G test distance is 1m, so the Peak Limit= $68.3 + 20 \cdot \log(3/1) = 77.84 \text{ (dB}\mu\text{V/m)}.$

7.6.3. Test Setup

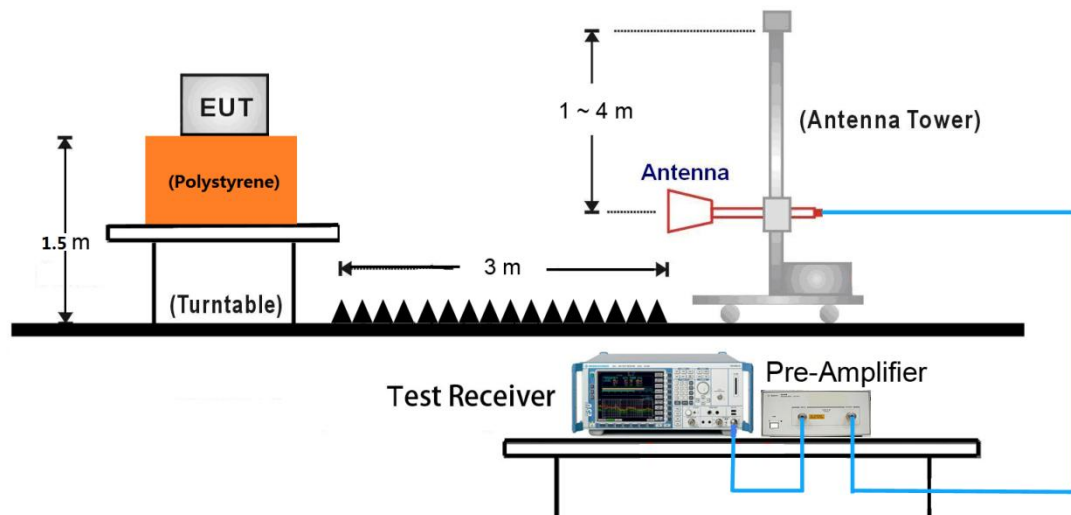
9kHz ~ 30MHz Test Setup:



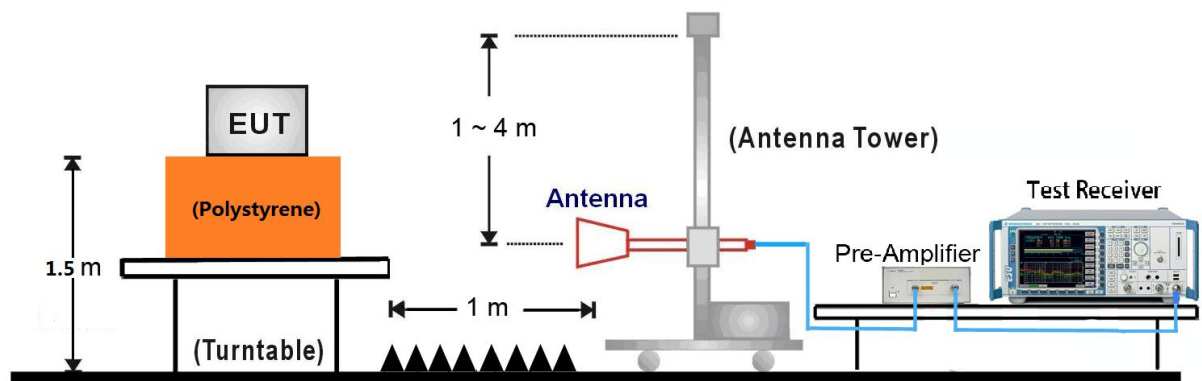
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 40GHz Test Setup:



7.6.4. DATA SAMPLE

Below 1GHz

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	66.85	31.09	-35.76	40.00	8.91	PK	200	351	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	-31.57	71.28	39.71	46.00	6.29	100	196	Horizontal

Frequency (MHz)	= Emission frequency in MHz
Reading (dBuV/m)	= Uncorrected Analyzer / Receiver reading
Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level (dBuV/m)	= Reading (dBuV/m) + Factor (dB)
Limit (dBuV/m)	= Limit stated in standard
Margin (dB)	= Limit (dBuV/m) – Level (dBuV/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
QP	= Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	53.84	59.73	50.19	5.89	74.00	23.81	100	48	Vertical	Peak
xxx	xxxx	44.22	46.83	37.29	2.61	54.00	16.71	100	279	Vertical	AVG

Frequency (MHz)	= Emission frequency in MHz
Reading (dBuV/m)	= Uncorrected Analyzer / Receiver reading
Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level (dBuV/m)	= Reading (dBuV/m) + Factor (dB)
Limit (dBuV/m)	= Limit stated in standard
Margin (dB)	= Limit (dBuV/m) – Level (dBuV/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
AVG	= Average Reading

7.6.5. Test Result

Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report.
(IEEE 802.11a 5745MHz)

Mode: IEEE 802.11a

Environment: 22.2°C/31%RH/101.7kPa

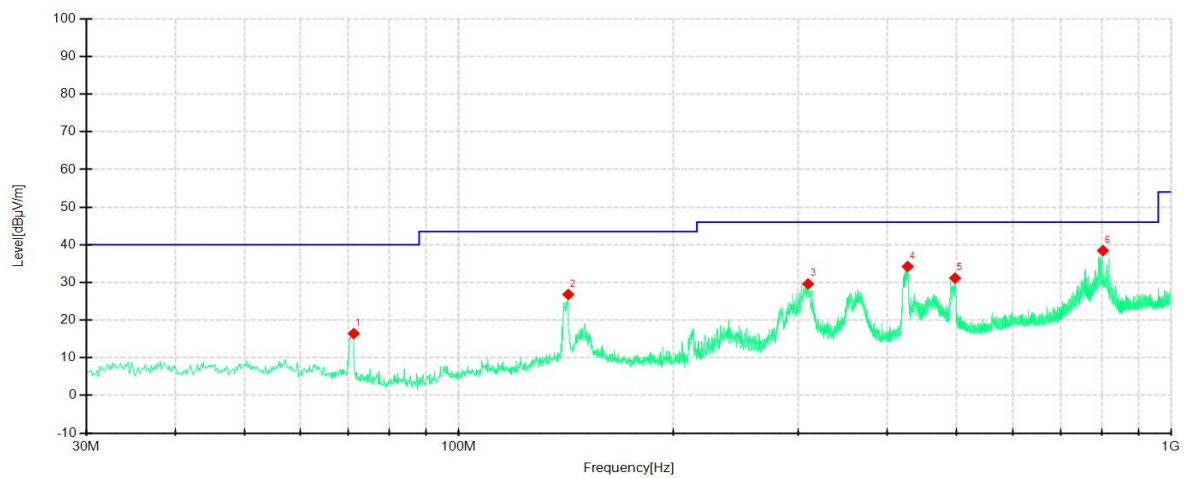
Test Engineer: Stone Zhang

Probe : Horizontal

Frequency:5745MHz

Power supply: DC 12V

Test Date: 2025-04-26



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	71.2302	48.07	16.43	-31.64	40.00	23.57	PK	200	310	Horizontal
2	142.5341	55.29	26.82	-28.47	43.50	16.68	PK	200	126	Horizontal
3	309.3949	56.94	29.61	-27.33	46.00	16.39	PK	100	326	Horizontal
4	427.0221	57.42	34.24	-23.18	46.00	11.76	PK	200	62	Horizontal
5	497.5985	52.86	31.16	-21.70	46.00	14.84	PK	200	34	Horizontal
6	802.7016	55.30	38.45	-16.85	46.00	7.55	PK	100	222	Horizontal

Mode: IEEE 802.11a

Environment: 22.2°C/31%RH/101.7kPa

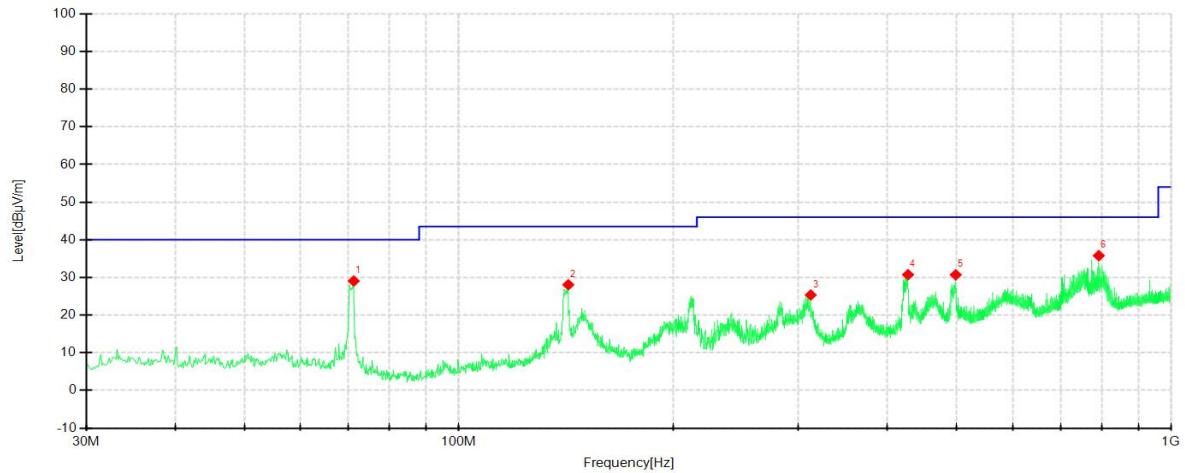
Test Engineer: Stone Zhang

Probe : Vertical

Frequency:5745MHz

Power supply: DC 12V

Test Date: 2025-04-26



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	71.2302	60.70	29.06	-31.64	40.00	10.94	PK	100	217	Vertical
2	142.5341	56.53	28.06	-28.47	43.50	15.44	PK	100	217	Vertical
3	312.0628	52.59	25.34	-27.25	46.00	20.66	PK	200	287	Vertical
4	427.3859	53.91	30.74	-23.17	46.00	15.26	PK	200	184	Vertical
5	498.6898	52.43	30.72	-21.71	46.00	15.28	PK	100	320	Vertical
6	791.9090	52.74	35.79	-16.95	46.00	10.21	PK	100	151	Vertical

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 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.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.
- 5 If the margin of the pre test results is greater than 6db, it meets the requirements of quasipeak or average values, and final testing is no longer required.

1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Mode: IEEE 802.11a

Frequency (5745MHz)

Date: 2025-05-07

Environment: 26.1°C/42%RH/101.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1049.5000	64.43	41.21	-23.22	74.00	32.79	100	340	Horizontal
2	1302.5000	60.11	40.09	-20.02	74.00	33.91	100	324	Horizontal
3	2388.7500	63.49	47.64	-15.85	74.00	26.36	200	95	Horizontal
4	4003.0000	60.23	52.72	-7.51	74.00	21.28	200	40	Horizontal
5	5112.9000	47.90	49.25	1.35	74.00	24.75	200	326	Horizontal
6	14653.5000	36.19	53.51	17.32	68.30	14.79	100	2	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3999.6975	-7.51	42.99	35.48	54.00	18.52	188	51.8	Horizontal
2	5117.3028	1.35	35.97	37.32	54.00	16.68	116	73.9	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1196.3500	62.95	41.96	-20.99	74.00	32.04	100	1	Vertical
2	2375.0000	72.53	56.71	-15.82	74.00	17.29	100	37	Vertical
3	2880.4500	59.26	45.99	-13.27	74.00	28.01	200	164	Vertical
4	4008.5000	55.40	48.52	-6.88	74.00	25.48	100	177	Vertical
5	5117.8500	48.17	49.83	1.66	74.00	24.17	200	178	Vertical
6	14646.6000	37.07	53.82	16.75	68.30	14.48	200	20	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.6885	-15.82	50.93	35.11	54.00	18.89	133	166.8	Vertical
2	3998.6098	-6.88	42.18	35.30	54.00	18.70	131	1.5	Vertical
3	5118.3684	1.66	35.95	37.61	54.00	16.39	157	103.3	Vertical

Mode: IEEE 802.11a

Frequency (5785MHz)

Environment: 26.1°C/42%RH/101.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-07

Voltage:DC 12V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1197.4500	62.11	39.96	-22.15	74.00	34.04	100	271	Horizontal
2	2374.4500	69.17	52.78	-16.39	74.00	21.22	200	1	Horizontal
3	2879.9000	56.16	42.27	-13.89	74.00	31.73	100	109	Horizontal
4	3974.4000	55.67	47.91	-7.76	74.00	26.09	100	122	Horizontal
5	5060.6500	48.24	49.65	1.41	74.00	24.35	200	176	Horizontal
6	14660.4000	37.01	54.35	17.34	68.30	13.95	200	294	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.7449	-16.39	52.43	36.04	54.00	17.96	105	100.9	Horizontal
2	5048.2364	1.41	35.58	36.99	54.00	17.01	200	339.4	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1196.9000	61.84	40.86	-20.98	74.00	33.14	100	34	Vertical
2	2378.3000	75.34	59.59	-15.75	74.00	14.41	100	34	Vertical
3	2880.4500	59.08	45.81	-13.27	74.00	28.19	200	162	Vertical
4	3972.2000	55.46	48.27	-7.19	74.00	25.73	200	299	Vertical
5	5101.9000	49.23	51.03	1.80	74.00	22.97	200	315	Vertical
6	15304.4000	36.30	53.86	17.56	68.30	14.44	100	144	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.3993	-15.75	54.60	38.85	54.00	15.15	100	42.9	Vertical
2	3969.6415	-7.19	43.60	36.41	54.00	17.59	158	176.1	Vertical
3	5114.4883	1.80	35.80	37.60	54.00	16.40	105	287.4	Vertical

Mode: IEEE 802.11a

Frequency (5825MHz)

Environment: 26.1°C/42%RH/101.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-07

Voltage:DC 12V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1311.3000	62.53	42.54	-19.99	74.00	31.46	100	78	Horizontal
2	1436.1500	62.51	42.43	-20.08	74.00	31.57	100	78	Horizontal
3	2382.1500	65.77	49.67	-16.10	74.00	24.33	100	52	Horizontal
4	3969.4500	63.47	55.67	-7.80	74.00	18.33	100	148	Horizontal
5	5043.0500	48.28	49.67	1.39	74.00	24.33	200	40	Horizontal
6	14785.7500	36.30	53.74	17.44	68.30	14.56	100	34	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.3046	-16.10	55.53	39.43	54.00	14.57	131	122.6	Horizontal
2	3975.9704	-7.80	45.71	37.91	54.00	16.09	152	157.3	Horizontal
3	5046.9184	1.39	35.64	37.03	54.00	16.97	189	257	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.8500	60.56	39.62	-20.94	74.00	34.38	200	13	1201.8500
2	2401.4000	64.58	49.26	-15.32	68.30	19.04	100	213	2401.4000
3	3139.5000	56.05	44.74	-11.31	68.30	23.56	200	163	3139.5000
4	3984.3000	56.25	49.23	-7.02	74.00	24.77	200	272	3984.3000
5	5118.4000	48.64	50.30	1.66	74.00	23.70	200	108	5118.4000
6	13099.8500	35.34	52.26	16.92	68.30	16.04	200	358	13099.8500

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB μ V/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3975.8533	-7.02	43.41	36.39	54.00	17.61	200	174.5	Vertical
2	5117.6960	1.66	36.00	37.66	54.00	16.34	128	197.2	Vertical

Mode: IEEE 802.11n HT20

Frequency (5745MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1298.6500	62.15	42.08	-20.07	68.30	26.22	200	155	Horizontal
2	2397.5500	75.01	59.50	-15.51	68.30	8.80	200	62	Horizontal
3	5040.3000	47.51	48.90	1.39	74.00	25.10	200	168	Horizontal
4	6008.8500	51.90	51.56	-0.34	68.30	16.74	100	262	Horizontal
5	14661.5500	37.28	54.63	17.35	68.30	13.67	100	312	Horizontal
6	17998.8500	38.20	56.04	17.84	74.00	17.96	200	219	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5046.2083	1.39	36.31	37.70	54.00	16.30	100	355.3	Horizontal
2	17999.9358	17.84	27.03	44.87	54.00	9.13	200	184.2	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.3000	63.04	42.10	-20.94	74.00	31.90	100	141	Vertical
2	2401.4000	68.83	53.51	-15.32	68.30	14.79	200	129	Vertical
3	3999.7000	54.81	48.00	-6.81	74.00	26.00	100	20	Vertical
4	5115.1000	48.44	50.13	1.69	74.00	23.87	100	33	Vertical
5	14648.9000	38.41	55.17	16.76	68.30	13.13	100	5	Vertical
6	17993.1000	37.90	55.98	18.08	74.00	18.02	200	85	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.9133	1.69	36.68	38.37	54.00	15.63	112	124.7	Vertical
2	17999.9345	18.08	26.96	45.04	54.00	8.96	200	64.8	Vertical

Mode: IEEE 802.11n HT20

Frequency (5785 MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1211.7500	63.35	41.39	-21.96	74.00	32.61	100	88	Horizontal
2	2390.9500	70.33	54.57	-15.76	68.30	13.73	100	155	Horizontal
3	4020.6000	57.67	50.15	-7.52	74.00	23.85	200	249	Horizontal
4	5112.3500	48.42	49.79	1.37	74.00	24.21	100	21	Horizontal
5	16088.7000	39.77	53.59	13.82	74.00	20.41	200	84	Horizontal
6	17996.5500	38.88	56.70	17.82	74.00	17.30	100	273	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4014.0255	-7.52	43.62	36.10	54.00	17.90	200	295.4	Horizontal
2	5117.3811	1.37	36.62	37.99	54.00	16.01	100	143.3	Horizontal
3	16088.4683	13.82	27.84	41.66	54.00	12.34	200	267.2	Horizontal
4	17999.9373	17.82	27.04	44.86	54.00	9.14	123	258.3	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.3000	66.39	45.45	-20.94	74.00	28.55	100	223	Vertical
2	2378.3000	66.97	51.22	-15.75	74.00	22.78	200	20	Vertical
3	5114.0000	48.85	50.55	1.70	74.00	23.45	100	157	Vertical
4	5780.6000	54.92	55.37	0.45	68.30	12.93	100	356	Vertical
5	14973.2000	36.63	54.37	17.74	68.30	13.93	200	111	Vertical
6	17996.5500	38.41	56.47	18.06	74.00	17.53	100	246	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.0993	-15.75	63.05	47.30	54.00	6.70	180	0	Vertical
2	5116.6640	1.70	36.71	38.41	54.00	15.59	100	245.5	Vertical
3	17999.6773	18.06	26.96	45.02	54.00	8.98	150	122.2	Vertical

Mode: IEEE 802.11n HT20

Frequency (5825MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1204.6000	64.69	42.62	-22.07	74.00	31.38	200	87	Horizontal
2	1592.3500	63.03	43.45	-19.58	74.00	30.55	100	88	Horizontal
3	2377.2000	69.13	52.85	-16.28	74.00	21.15	200	167	Horizontal
4	5114.0000	48.52	49.87	1.35	74.00	24.13	200	234	Horizontal
5	14613.2500	37.33	54.41	17.08	68.30	13.89	100	112	Horizontal
6	17970.1000	38.45	56.07	17.62	74.00	17.93	200	341	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.1020	-16.28	61.96	45.68	54.00	8.32	137	317.1	Horizontal
2	5117.0710	1.35	36.68	38.03	54.00	15.97	118	216.1	Horizontal
3	17999.4195	17.62	27.02	44.64	54.00	9.36	200	64.8	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.2000	67.86	52.30	-15.56	74.00	21.70	100	318	Vertical
2	3978.2500	56.09	48.98	-7.11	74.00	25.02	100	144	Vertical
3	5120.0500	48.29	49.94	1.65	74.00	24.06	100	318	Vertical
4	5832.3000	52.18	52.59	0.41	68.30	15.71	100	358	Vertical
5	15350.4000	36.78	54.21	17.43	74.00	19.79	200	17	Vertical
6	17981.6000	37.74	55.88	18.14	74.00	18.12	200	126	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2394.0065	-15.56	64.11	48.55	53.91	5.36	153	32.9	Vertical
2	3982.0494	-7.11	39.95	32.84	54.00	21.16	120	21.4	Vertical
3	5117.9749	1.65	36.64	38.29	54.00	15.71	112	132.6	Vertical
4	15323.8540	17.43	24.46	41.89	54.00	12.11	200	348.7	Vertical
5	17999.9320	18.14	27.06	45.20	54.00	8.80	159	103.1	Vertical

Mode: IEEE 802.11n HT40

Frequency (5755MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1202.4000	65.01	42.90	-22.11	74.00	31.10	100	99	Horizontal
2	2386.0000	71.41	55.46	-15.95	74.00	18.54	100	360	Horizontal
3	4992.4500	49.18	50.30	1.12	74.00	23.70	200	262	Horizontal
4	13164.2500	36.18	53.37	17.19	68.30	14.93	200	245	Horizontal
5	15122.7000	37.82	54.13	16.31	68.30	14.17	200	0	Horizontal
6	17978.1500	38.04	55.72	17.68	74.00	18.28	200	83	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2391.5070	-15.95	64.15	48.20	53.91	5.71	154	318.3	Horizontal
2	4980.8539	1.12	36.39	37.51	54.00	16.49	178	59.7	Horizontal
3	17999.9393	17.68	27.21	44.89	54.00	9.11	200	346.9	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1259.6000	66.63	45.92	-20.71	68.30	22.38	100	264	Vertical
2	2376.1000	69.13	53.34	-15.79	74.00	20.66	100	235	Vertical
3	3945.8000	54.89	47.42	-7.47	74.00	26.58	100	21	Vertical
4	5122.8000	48.65	50.27	1.62	74.00	23.73	100	168	Vertical
5	13144.7000	35.41	52.34	16.93	68.30	15.96	200	149	Vertical
6	17889.6000	37.70	56.06	18.36	74.00	17.94	100	340	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.9798	-15.79	59.94	44.15	54.00	9.85	109	318.2	Vertical
2	5117.7220	1.62	36.63	38.25	54.00	15.75	142	42.7	Vertical
3	17933.2260	18.36	25.60	43.96	54.00	10.04	111	360	Vertical

Mode: IEEE 802.11n HT40

Frequency (5795MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1205.7000	64.27	42.22	-22.05	74.00	31.78	100	85	Horizontal
2	2384.9000	75.46	59.47	-15.99	74.00	14.53	200	57	Horizontal
3	4015.6500	55.55	48.03	-7.52	74.00	25.97	200	247	Horizontal
4	5117.3000	48.74	50.09	1.35	74.00	23.91	100	205	Horizontal
5	14652.3500	36.91	54.23	17.32	68.30	14.07	200	180	Horizontal
6	17979.3000	38.05	55.74	17.69	74.00	18.26	100	46	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.3046	-16.10	55.53	39.43	54.00	14.57	131	122.6	Horizontal
2	3975.9704	-7.80	45.71	37.91	54.00	16.09	152	157.3	Horizontal
3	5046.9184	1.39	35.64	37.03	54.00	16.97	189	257	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.8500	60.56	39.62	-20.94	74.00	34.38	200	13	Vertical
2	2401.4000	64.58	49.26	-15.32	68.30	19.04	100	213	Vertical
3	3139.5000	56.05	44.74	-11.31	68.30	23.56	200	163	Vertical
4	3984.3000	56.25	49.23	-7.02	74.00	24.77	200	272	Vertical
5	5118.4000	48.64	50.30	1.66	74.00	23.70	200	108	Vertical
6	13099.8500	35.34	52.26	16.92	68.30	16.04	200	358	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3975.8533	-7.02	43.41	36.39	54.00	17.61	200	174.5	Vertical
2	5117.6960	1.66	36.00	37.66	54.00	16.34	128	197.2	Vertical

Mode: IEEE 802.11ac VHT20

Frequency (5745MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1194.1500	66.04	43.87	-22.17	74.00	30.13	100	74	Horizontal
2	2377.2000	70.53	54.25	-16.28	74.00	19.75	100	330	Horizontal
3	4012.3500	54.74	47.22	-7.52	74.00	26.78	200	302	Horizontal
4	5058.4500	48.26	49.67	1.41	74.00	24.33	100	303	Horizontal
5	13119.4000	35.89	53.17	17.28	68.30	15.13	200	149	Horizontal
6	17998.8500	38.00	55.84	17.84	74.00	18.16	200	273	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.2940	-16.28	61.07	44.79	54.00	9.21	100	307	Horizontal
2	5047.9819	1.41	35.93	37.34	54.00	16.66	121	266.4	Horizontal
3	17999.9358	17.84	26.96	44.80	54.00	9.20	128	175.7	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1302.5000	74.37	53.81	-20.56	74.00	20.19	100	262	Vertical
2	2379.4000	74.08	58.35	-15.73	74.00	15.65	100	249	Vertical
3	2879.9000	58.65	45.38	-13.27	74.00	28.62	200	356	Vertical
4	5115.6500	48.20	49.89	1.69	74.00	24.11	200	60	Vertical
5	14744.3500	37.08	54.45	17.37	68.30	13.85	100	285	Vertical
6	17972.4000	38.50	56.67	18.17	74.00	17.33	200	232	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1300.0873	-20.56	51.40	30.84	54.00	23.16	153	154.7	Vertical
2	2385.3395	-15.73	63.67	47.94	54.00	6.06	132	53.9	Vertical
3	5117.4269	1.69	36.39	38.08	54.00	15.92	180	254.5	Vertical
4	17999.6780	18.17	27.11	45.28	54.00	8.72	200	175.3	Vertical

Mode: IEEE 802.11ac VHT20

Frequency (5785 MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1158.9500	69.82	47.52	-22.30	74.00	26.48	100	261	Horizontal
2	2376.1000	70.63	54.31	-16.32	74.00	19.69	100	74	Horizontal
3	3954.6000	54.45	46.50	-7.95	74.00	27.50	200	288	Horizontal
4	5118.9500	48.41	49.74	1.33	74.00	24.26	100	168	Horizontal
5	14666.1500	36.52	53.88	17.36	68.30	14.42	100	165	Horizontal
6	17998.8500	37.77	55.61	17.84	74.00	18.39	200	83	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.9658	-16.32	61.99	45.67	54.00	8.33	100	289.9	Horizontal
2	5117.9496	1.33	36.28	37.61	54.00	16.39	100	286	Horizontal
3	17999.8058	17.84	26.89	44.73	54.00	9.27	148	94.5	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1208.4500	61.84	40.94	-20.90	74.00	33.06	200	48	Vertical
2	2377.7500	75.34	59.57	-15.77	74.00	14.43	100	329	Vertical
3	3968.3500	55.12	47.88	-7.24	74.00	26.12	200	318	Vertical
4	5116.2000	48.18	49.86	1.68	74.00	24.14	100	316	Vertical
5	15064.0500	38.16	54.32	16.16	68.30	13.98	100	246	Vertical
6	17991.9500	39.33	57.41	18.08	74.00	16.59	100	166	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.3246	-15.77	63.99	48.22	54.00	5.78	133	40.6	Vertical
2	5118.4215	1.68	36.28	37.96	54.00	16.04	100	265.7	Vertical
3	17999.8003	18.08	26.91	44.99	54.00	9.01	100	33.4	Vertical

Mode: IEEE 802.11ac VHT20

Frequency (5825MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1208.4500	63.67	41.67	-22.00	74.00	32.33	200	88	Horizontal
2	2378.8500	68.24	52.02	-16.22	74.00	21.98	100	344	Horizontal
3	2824.3500	65.82	51.87	-13.95	74.00	22.13	100	265	Horizontal
4	4995.7500	48.13	49.33	1.20	74.00	24.67	100	129	Horizontal
5	14669.6000	36.59	53.96	17.37	68.30	14.34	200	338	Horizontal
6	17991.9500	37.75	55.54	17.79	74.00	18.46	100	231	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.0139	-16.22	62.11	45.89	54.00	8.11	165	286.8	Horizontal
2	2822.9601	-13.95	49.34	35.39	54.00	18.61	101	237.2	Horizontal
3	4984.6166	1.20	36.00	37.20	54.00	16.80	100	287.7	Horizontal
4	17999.9303	17.79	26.94	44.73	54.00	9.27	174	63.8	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1303.0500	61.00	40.43	-20.57	74.00	33.57	200	154	Vertical
2	2406.9000	76.76	61.47	-15.29	68.30	6.83	100	60	Vertical
3	2879.9000	57.70	44.43	-13.27	74.00	29.57	200	355	Vertical
4	5117.3000	47.82	49.50	1.68	74.00	24.50	200	22	Vertical
5	15281.4000	37.24	54.47	17.23	68.30	13.83	100	16	Vertical
6	17997.7000	38.86	56.92	18.06	74.00	17.08	100	4	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.7818	1.68	36.30	37.98	54.00	16.02	118	266.6	Vertical
2	17999.0215	18.06	26.89	44.95	54.00	9.05	100	114	Vertical

Mode: IEEE 802.11ac VHT40

Frequency (5755MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1204.6000	67.43	45.36	-22.07	74.00	28.64	100	100	Horizontal
2	2381.0500	75.73	59.60	-16.13	74.00	14.40	200	341	Horizontal
3	2879.9000	57.22	43.33	-13.89	74.00	30.67	100	20	Horizontal
4	5057.9000	48.32	49.73	1.41	74.00	24.27	100	87	Horizontal
5	13118.2500	35.82	53.09	17.27	68.30	15.21	100	233	Horizontal
6	17977.0000	37.92	55.59	17.67	74.00	18.41	200	57	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.2184	-16.13	61.90	45.77	54.00	8.23	168	317.6	Horizontal
2	5045.4933	1.41	35.98	37.39	54.00	16.61	100	145.8	Horizontal
3	17999.9350	17.67	27.17	44.84	54.00	9.16	117	360	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.8500	63.86	42.92	-20.94	74.00	31.08	100	196	Vertical
2	2398.6500	67.31	51.96	-15.35	68.30	16.34	100	47	Vertical
3	3974.9500	53.97	46.82	-7.15	74.00	27.18	100	316	Vertical
4	5046.3500	48.03	49.60	1.57	74.00	24.40	200	130	Vertical
5	14973.2000	37.38	55.12	17.74	68.30	13.18	200	108	Vertical
6	17991.9500	38.69	56.77	18.08	74.00	17.23	100	96	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5046.4231	1.57	36.10	37.67	54.00	16.33	181	71.8	Vertical
2	17999.9303	18.08	27.11	45.19	54.00	8.81	134	226.1	Vertical

Mode: IEEE 802.11ac VHT40

Frequency (5795MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1204.6000	63.69	41.62	-22.07	74.00	32.38	200	83	Horizontal
2	2391.5000	66.42	50.67	-15.75	68.30	17.63	200	311	Horizontal
3	5062.8500	47.59	49.00	1.41	74.00	25.00	200	193	Horizontal
4	5793.2500	49.72	50.13	0.41	68.30	18.17	200	58	Horizontal
5	14650.0500	37.43	54.74	17.31	68.30	13.56	100	90	Horizontal
6	17997.7000	38.36	56.19	17.83	74.00	17.81	100	144	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5050.8339	1.41	35.99	37.40	54.00	16.60	104	216.2	Horizontal
2	17999.9315	17.83	27.14	44.97	54.00	9.03	154	235.5	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1299.2000	61.51	40.96	-20.55	68.30	27.34	200	123	Vertical
2	2409.1000	69.41	54.14	-15.27	68.30	14.16	200	230	Vertical
3	3135.1000	63.74	52.33	-11.41	68.30	15.97	200	286	Vertical
4	5114.0000	48.07	49.77	1.70	74.00	24.23	200	340	Vertical
5	13112.5000	36.97	53.90	16.93	68.30	14.40	100	211	Vertical
6	17998.8500	38.37	56.42	18.05	74.00	17.58	100	89	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5118.3300	1.70	36.48	38.18	54.00	15.82	106	164.2	Vertical
2	17999.8058	18.05	27.19	45.24	54.00	8.76	164	247.6	Vertical

Mode: IEEE 802.11ac VHT80

Frequency (5775MHz)

Date: 2025-05-10

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1205.1500	63.99	41.93	-22.06	74.00	32.07	100	84	Horizontal
2	2393.1500	72.66	56.98	-15.68	68.30	11.32	200	0	Horizontal
3	3987.0500	53.85	46.22	-7.63	74.00	27.78	100	4	Horizontal
4	5054.0500	47.85	49.26	1.41	74.00	24.74	100	165	Horizontal
5	16103.6500	39.80	53.67	13.87	74.00	20.33	200	223	Horizontal
6	17991.9500	37.64	55.43	17.79	74.00	18.57	100	329	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5047.1379	1.41	36.15	37.56	54.00	16.44	100	317.5	Horizontal
2	16091.7609	13.87	28.01	41.88	54.00	12.12	199	22.6	Horizontal
3	17999.8003	17.79	27.26	45.05	54.00	8.95	110	175.7	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1201.8500	64.31	43.37	-20.94	74.00	30.63	100	205	Vertical
2	2378.3000	65.71	49.96	-15.75	74.00	24.04	200	340	Vertical
3	3194.5000	62.76	50.83	-11.93	68.30	17.47	200	285	Vertical
4	5045.8000	48.06	49.62	1.56	74.00	24.38	200	2	Vertical
5	15284.8500	37.77	55.06	17.29	68.30	13.24	100	155	Vertical
6	18000.0000	38.19	56.24	18.05	74.00	17.76	100	143	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.2373	-15.75	63.32	47.57	54.00	6.43	180	347.9	Vertical
2	5047.7715	1.56	36.20	37.76	54.00	16.24	117	165.9	Vertical
3	17999.8000	18.05	27.26	45.31	54.00	8.69	131	328.7	Vertical

18GHz-40GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Note: Pre-scan all modes, only the worst case (IEEE 802.11n HT40_5755MHz) is recorded in this report.

Mode: IEEE 802.11n HT40

Frequency (5755MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Test Date: 2025-05-10

Power supply: DC 12V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20891.9000	45.63	49.68	40.14	4.05	74	33.86	100	300	Horizontal
2	22027.1000	45.09	48.54	39.00	3.45	74	35.00	100	0	Horizontal
3	23749.7000	43.14	47.82	38.28	4.68	74	35.72	100	133	Horizontal
4	31329.8000	43.73	51.24	41.70	7.51	74	32.30	100	174	Horizontal
5	36333.7000	43.37	53.07	43.53	9.70	74	30.47	100	30	Horizontal
6	39400.5000	41.37	56.70	47.16	15.33	74	26.84	100	154	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19408.0000	48.04	51.74	42.20	3.70	74	31.80	100	102	Vertical
2	22527.6000	44.48	48.69	39.15	4.21	74	34.85	100	351	Vertical
3	23780.5000	43.52	48.82	39.28	5.30	74	34.72	100	360	Vertical
4	31576.2000	43.04	49.61	40.07	6.57	74	33.93	100	122	Vertical
5	36305.1000	42.78	53.39	43.85	10.61	74	30.15	100	82	Vertical
6	39674.4000	40.87	57.19	47.65	16.32	74	26.35	100	226	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3)

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 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	8.25 - 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	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	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 - 156.525	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	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41	--	--	--

For FCC 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.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

7.7.2. Test Setting

- a) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- b) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- c) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- d) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK Measurement: RBW=1MHz / VBW=3MHz / Sweep=AUTO
 - b) AVERAGE Measurement: RBW=1MHz, Sweep=AUTO, There are two cases of VBW.
If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW=10Hz. If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$, Where T is defined in section 2.5.
- e) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

7.7.3. Test Result

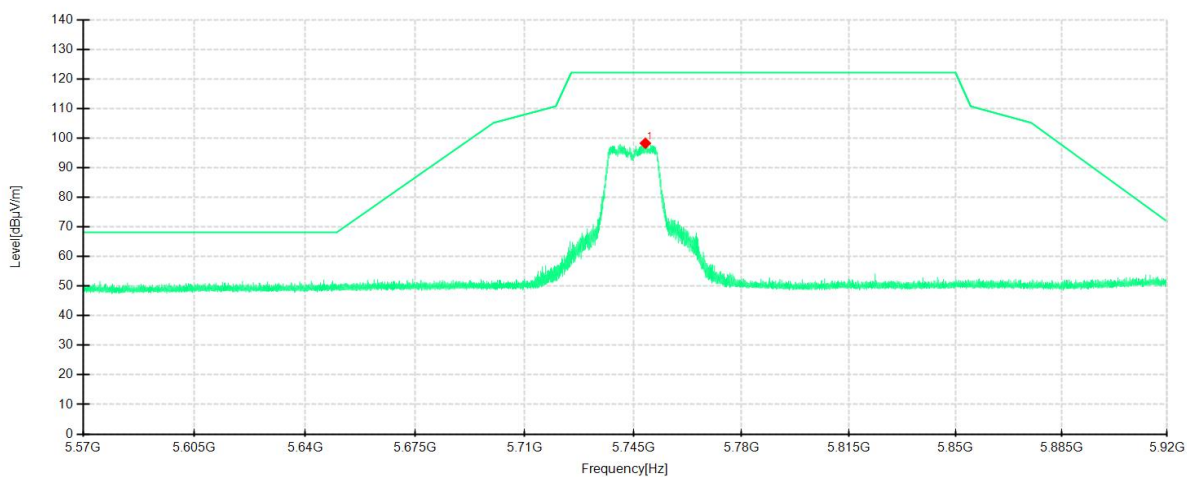
Project Information			
EUT:	MONITOR WITH RECEIVER	Model:	DMX8710S
Test Date:	2025-03-30	Voltage:	DC 12V
Environment:	Temp: 17.1°C; Humi:30%	Engineer:	Stone Zhang

IEEE 802.11a mode

Frequency 5745MHz

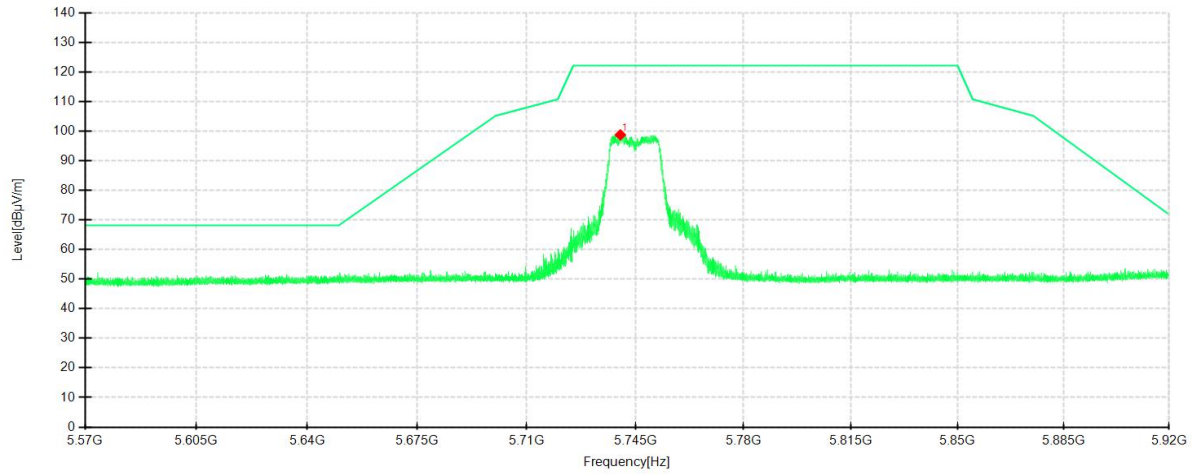
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



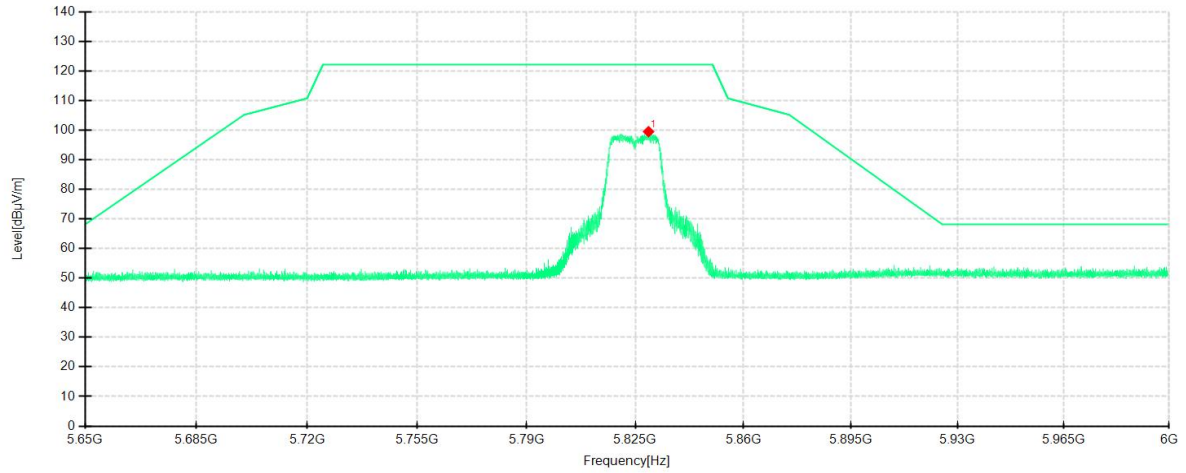
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5748.8850	90.50	98.30	7.80	122.20	23.90	200	307	Horizontal	/
1	5740.1525	90.91	98.77	7.86	122.20	23.43	100	52	Vertical	/

IEEE 802.11a mode

Frequency 5825MHz

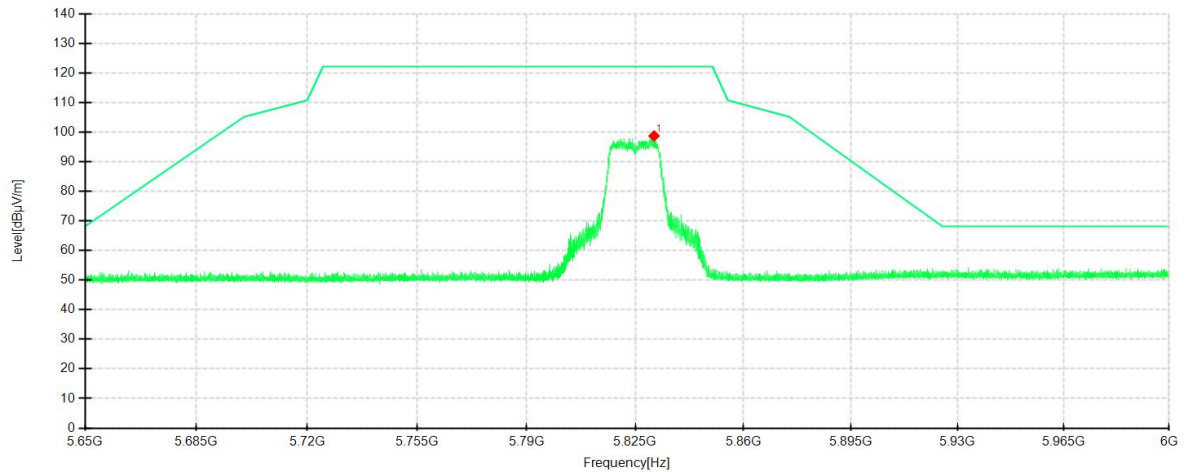
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



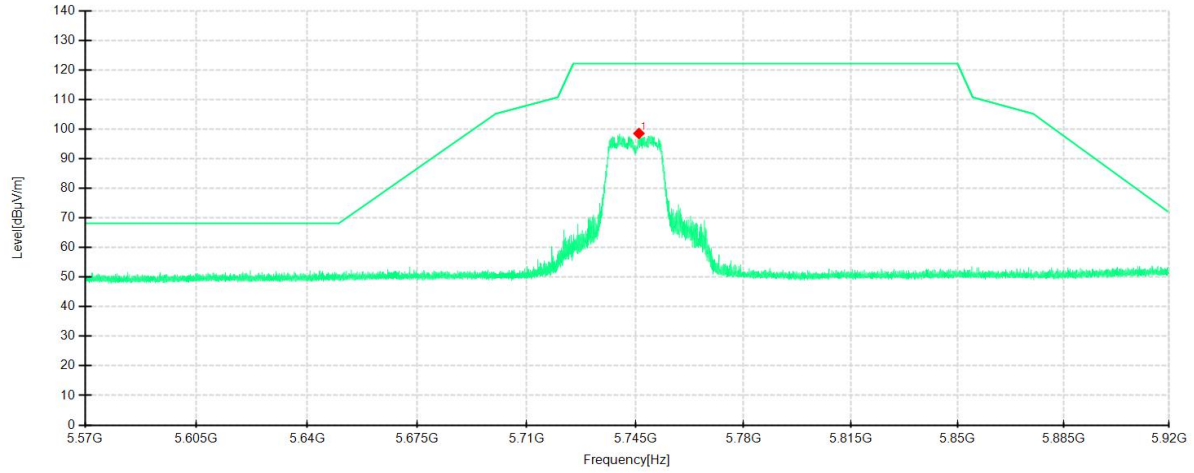
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5829.3050	91.73	99.53	7.80	122.20	22.67	200	145	Horizontal	/
1	5831.0900	91.02	98.76	7.74	122.20	23.44	100	261	Vertical	/

IEEE 802.11n HT20 mode

Frequency 5745MHz

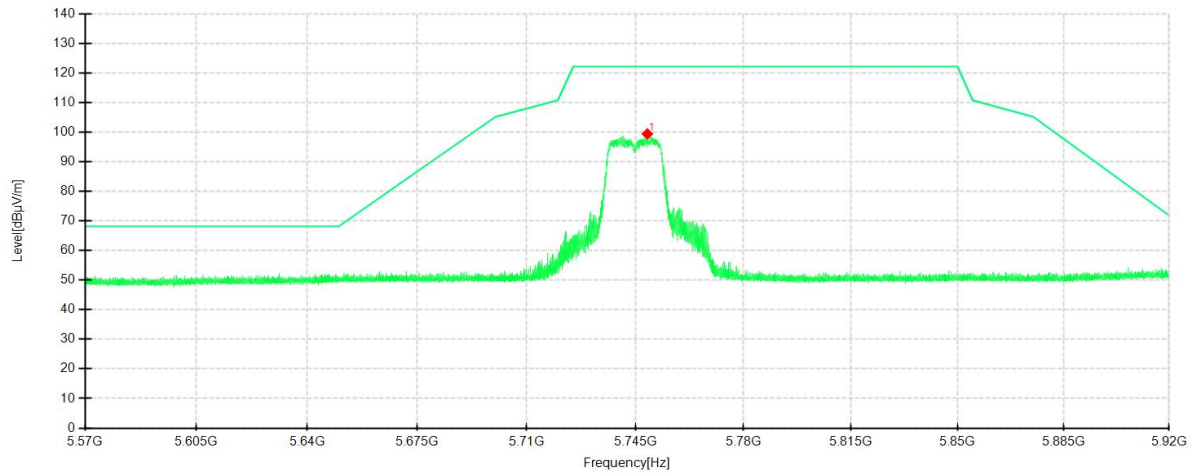
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



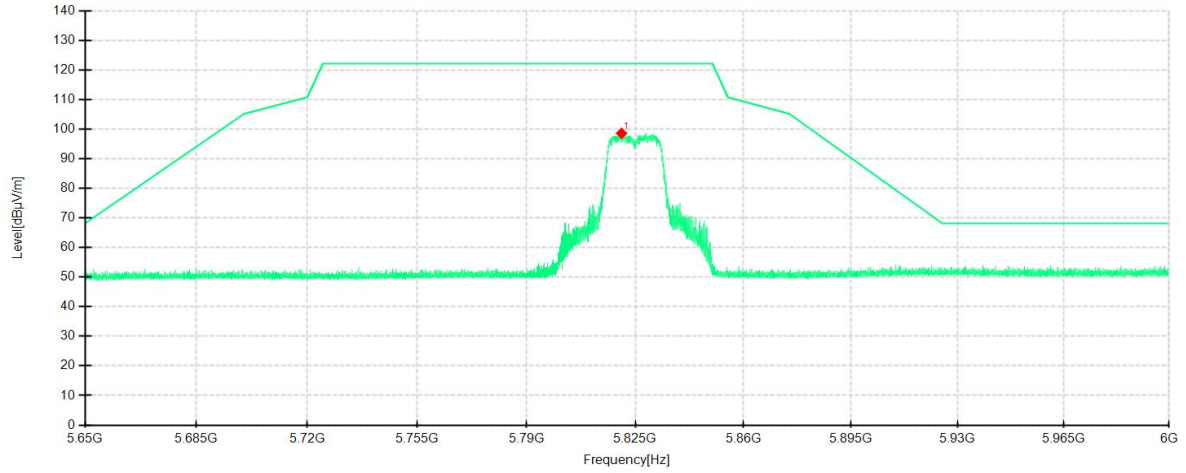
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5746.1550	90.79	98.58	7.79	122.20	23.62	200	306	Horizontal	/
1	5748.9025	91.53	99.43	7.90	122.20	22.77	100	47	Vertical	/

IEEE 802.11n HT20 mode

Frequency 5825MHz

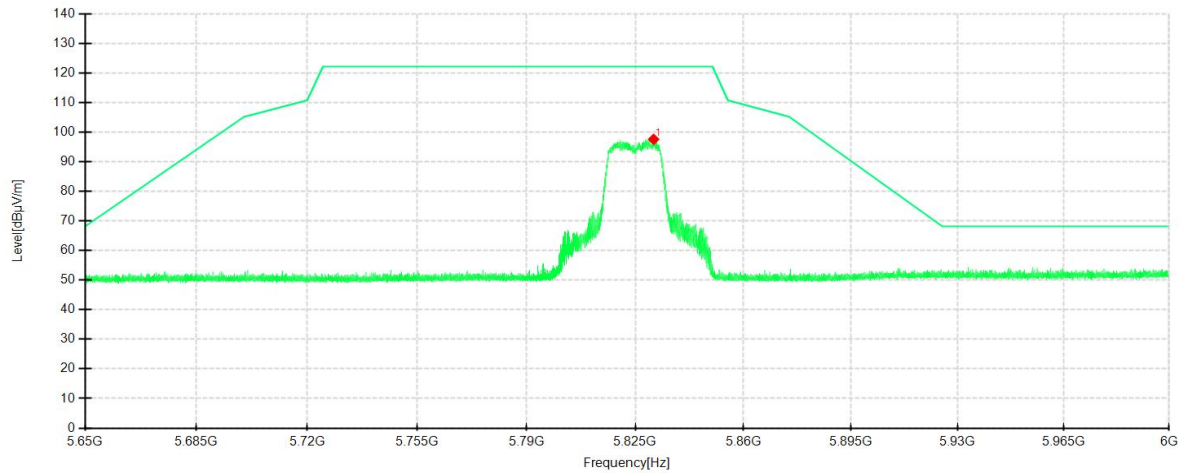
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



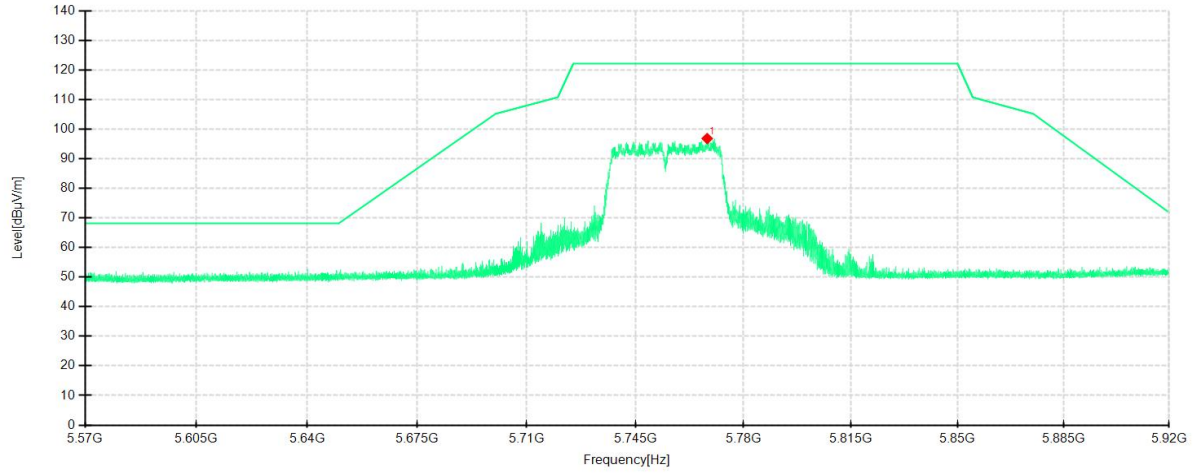
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5820.5900	90.84	98.60	7.76	122.20	23.60	200	162	Horizontal	/
1	5830.9500	89.86	97.60	7.74	122.20	24.60	100	292	Vertical	/

IEEE 802.11n HT40 mode

Frequency 5755MHz

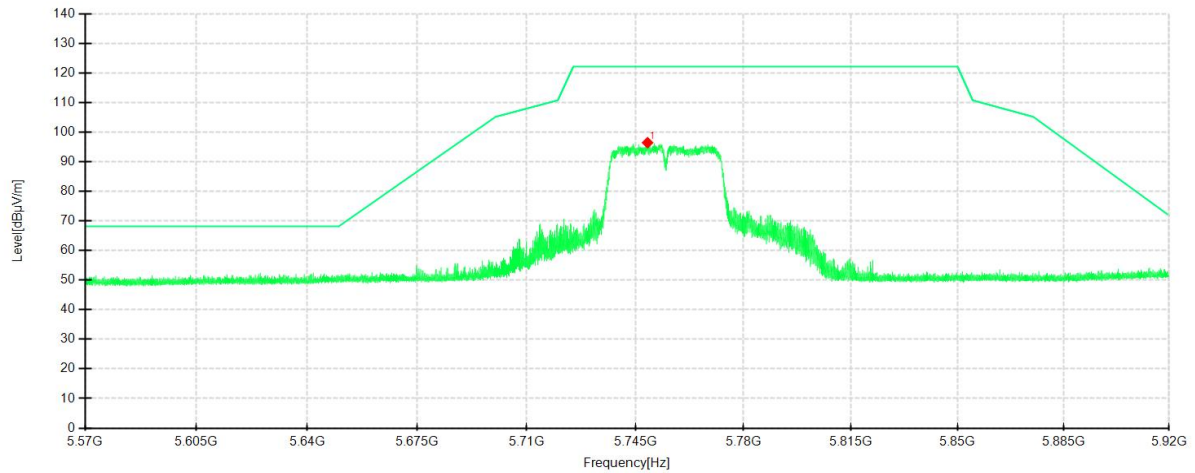
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



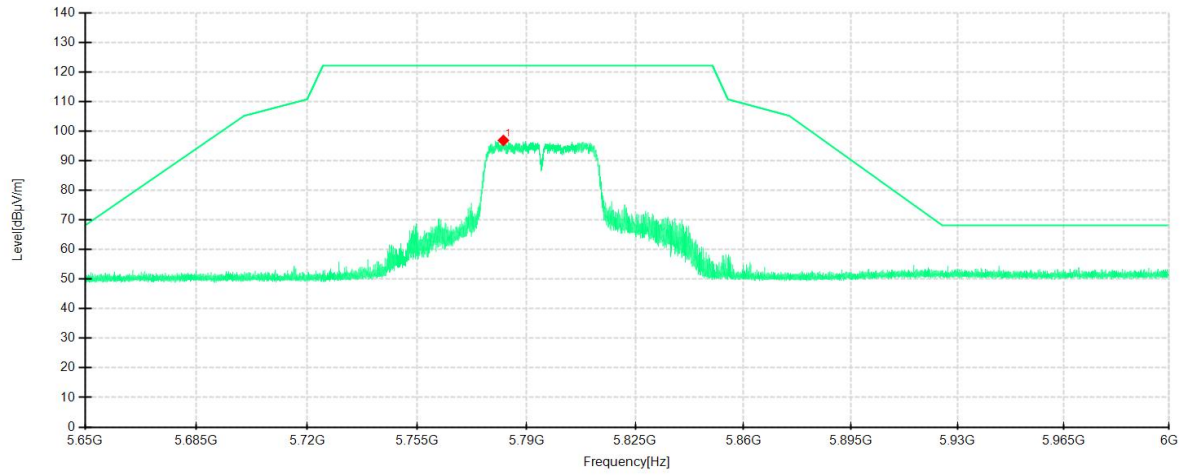
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5768.2575	89.09	96.85	7.76	122.20	25.35	200	307	Horizontal	/
1	5748.9375	88.57	96.47	7.90	122.20	25.73	100	50	Vertical	/

IEEE 802.11n HT40 mode

Frequency 5795MHz

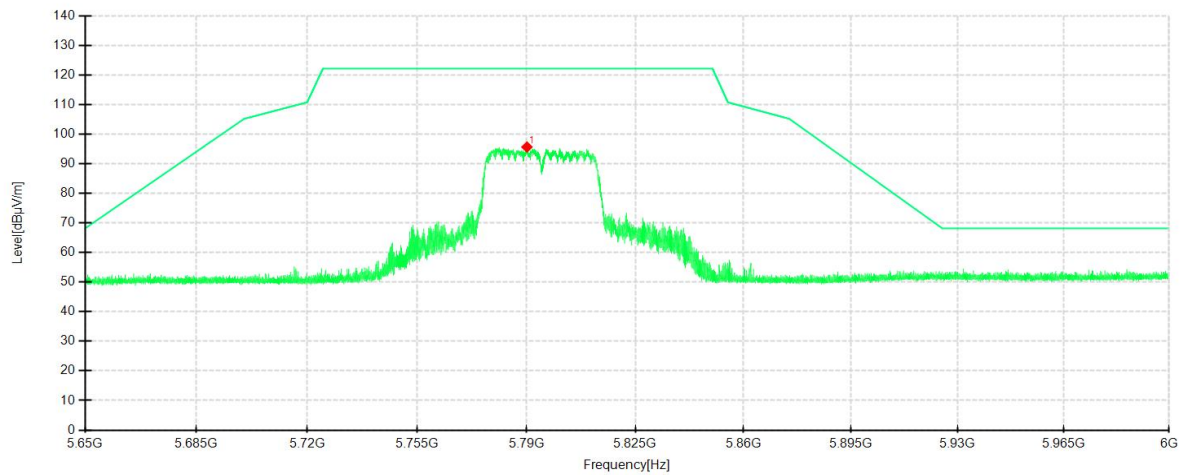
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



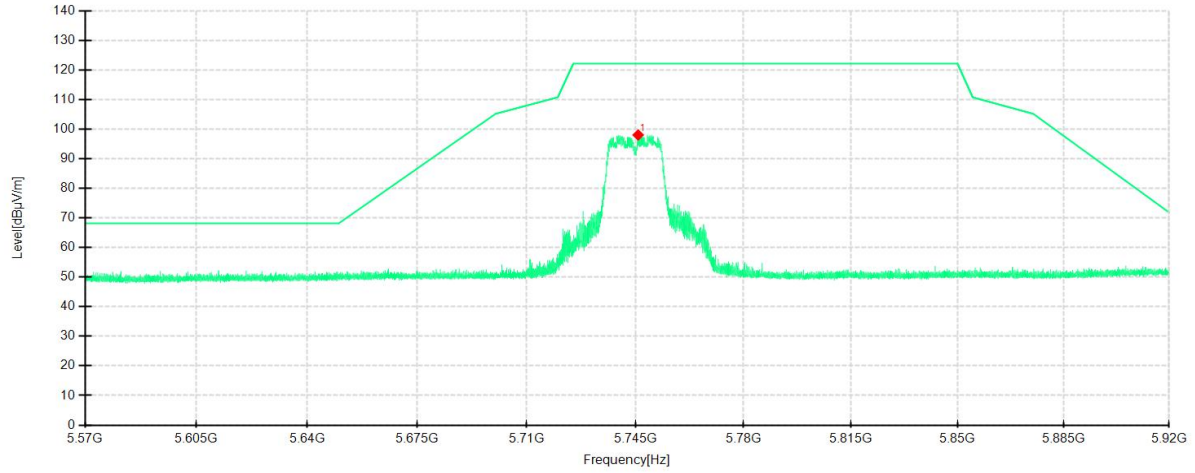
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5782.5625	89.17	96.89	7.72	122.20	25.31	200	292	Horizontal	/
1	5790.1225	87.95	95.67	7.72	122.20	26.53	100	260	Vertical	/

IEEE 802.11ac VHT20 mode

Frequency 5745MHz

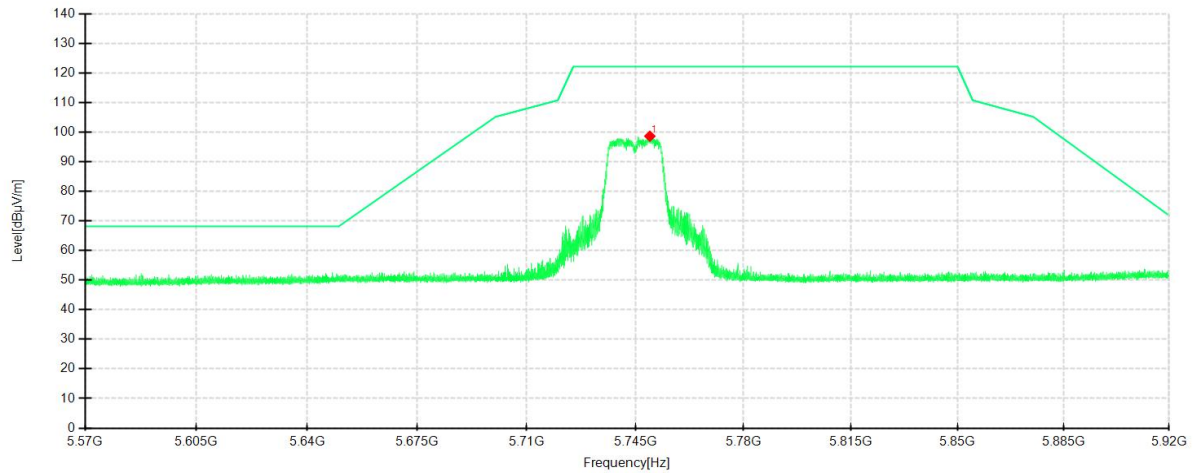
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



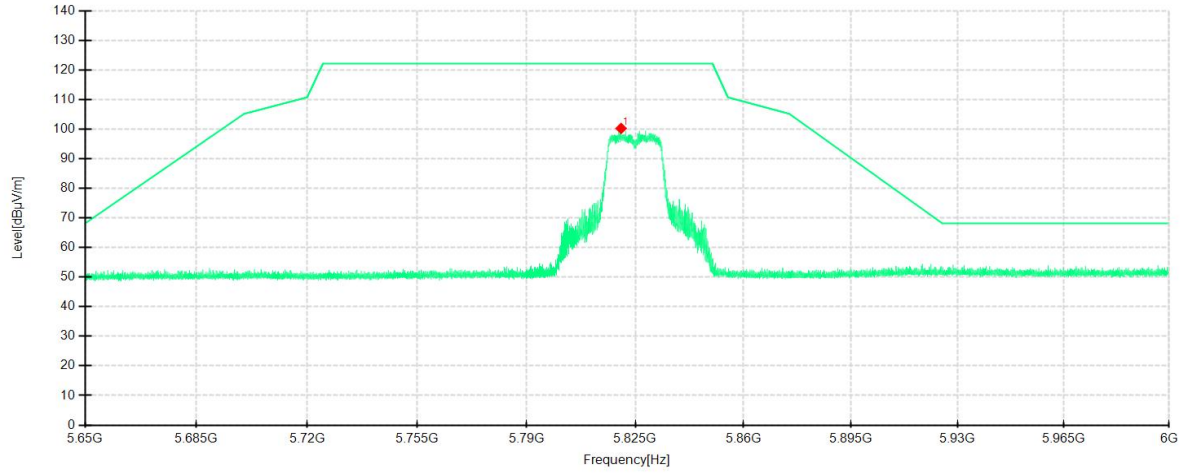
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5745.9100	90.27	98.06	7.79	122.20	24.14	200	305	Horizontal	/
1	5749.6900	90.75	98.66	7.91	122.20	23.54	100	275	Vertical	/

IEEE 802.11ac VHT20 mode

Frequency 5825MHz

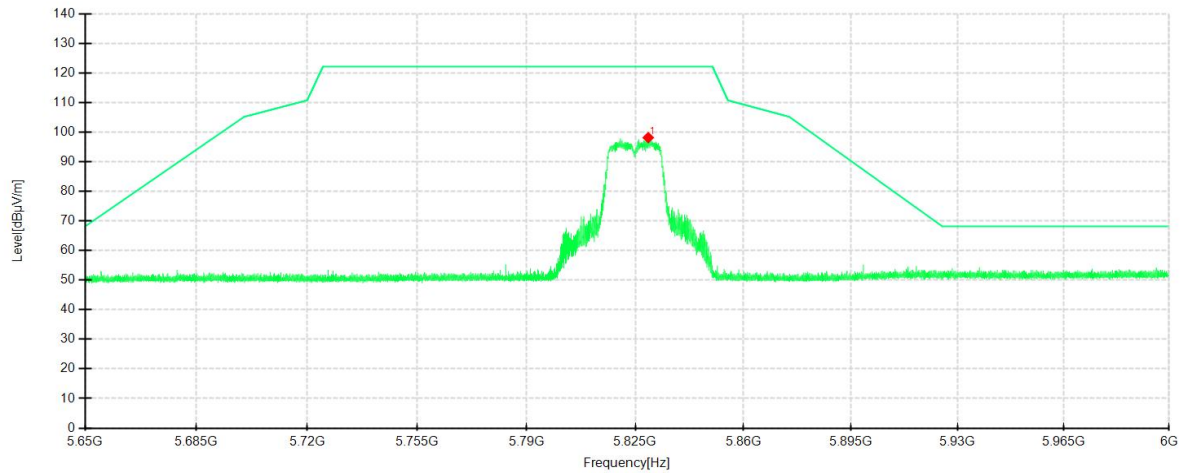
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



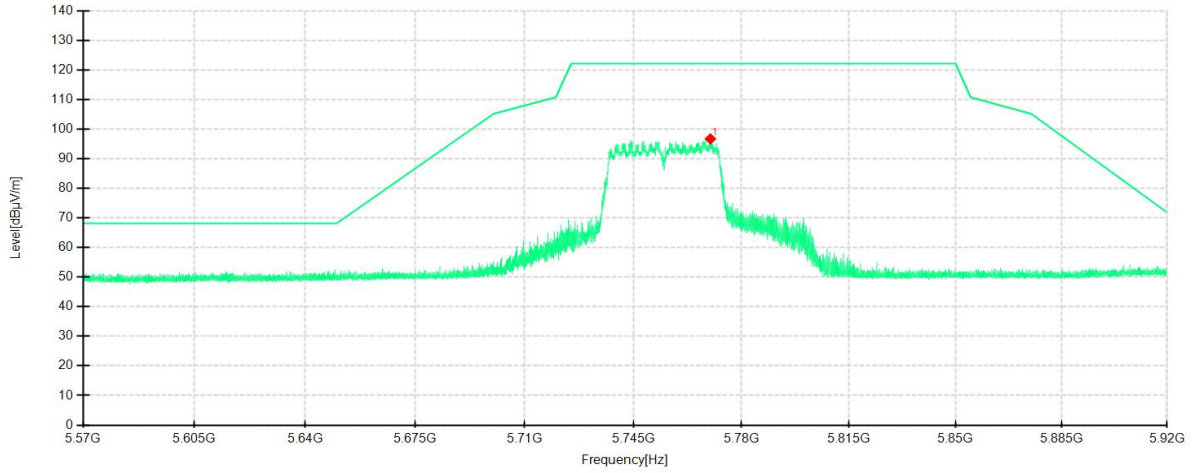
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5820.4325	92.50	100.26	7.76	122.20	21.94	200	291	Horizontal	/
1	5829.2000	90.43	98.17	7.74	122.20	24.03	100	261	Vertical	/

IEEE 802.11ac VHT40 mode

Frequency 5755MHz

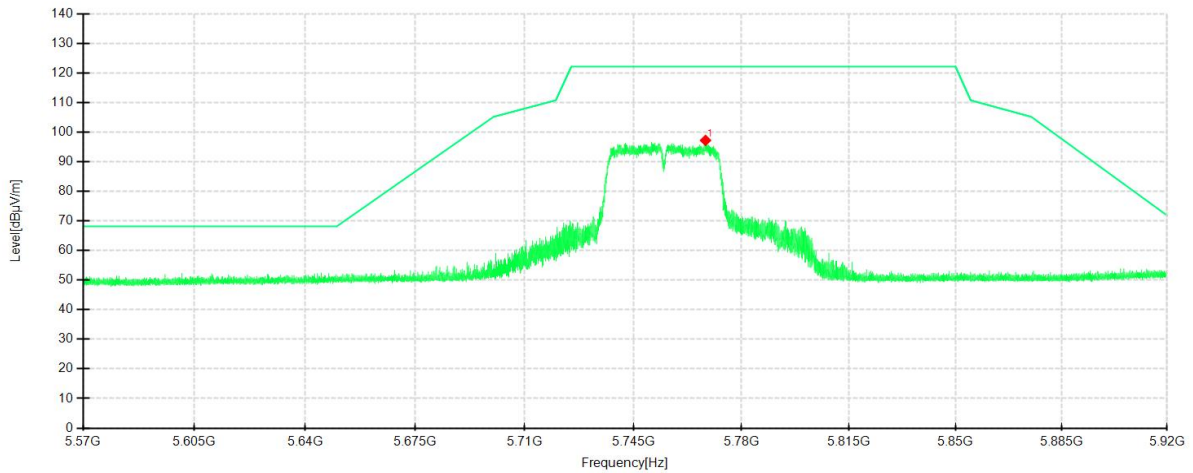
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



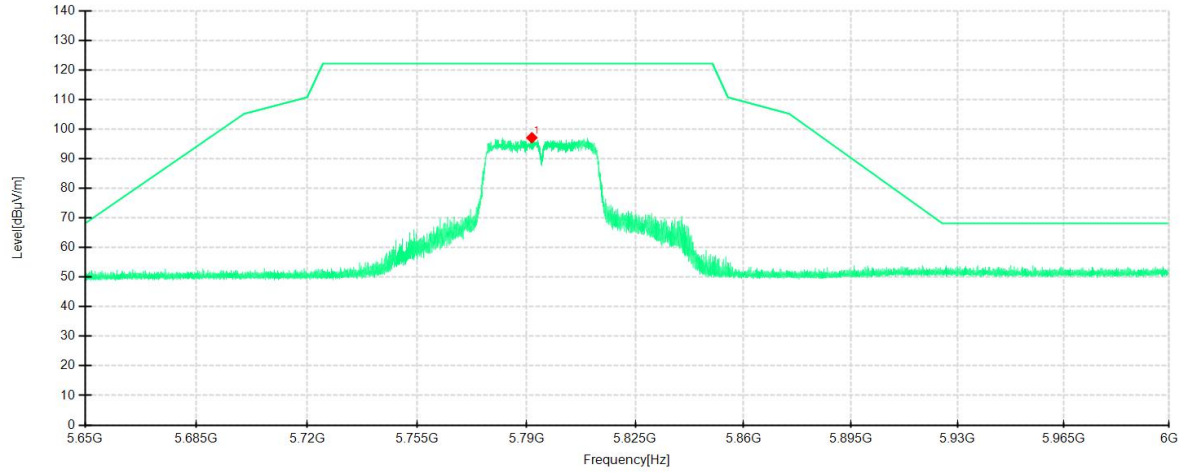
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5769.9550	88.98	96.73	7.75	122.20	25.47	200	290	Horizontal	/
1	5768.3625	89.42	97.24	7.82	122.20	24.96	100	47	Vertical	/

IEEE 802.11ac VHT40 mode

Frequency 5795MHz

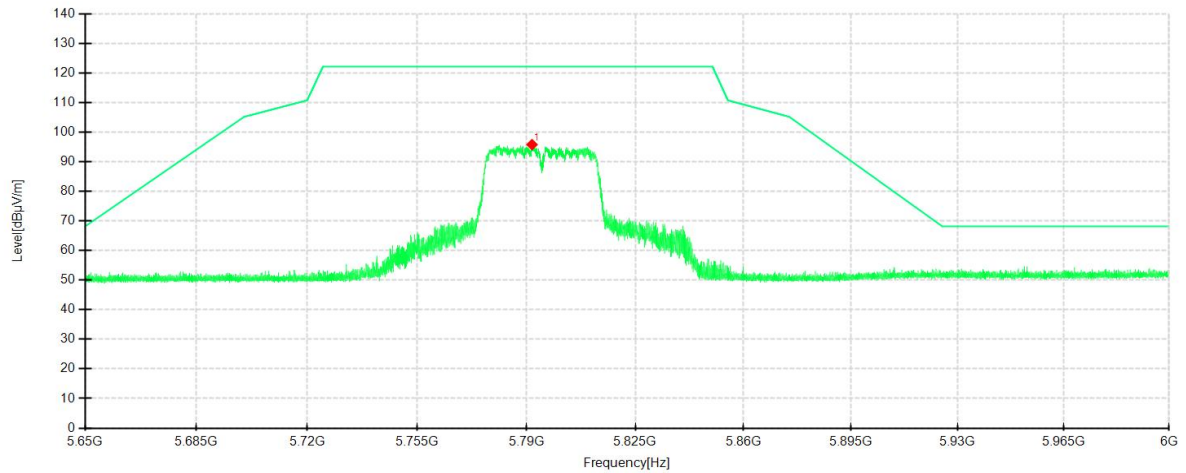
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



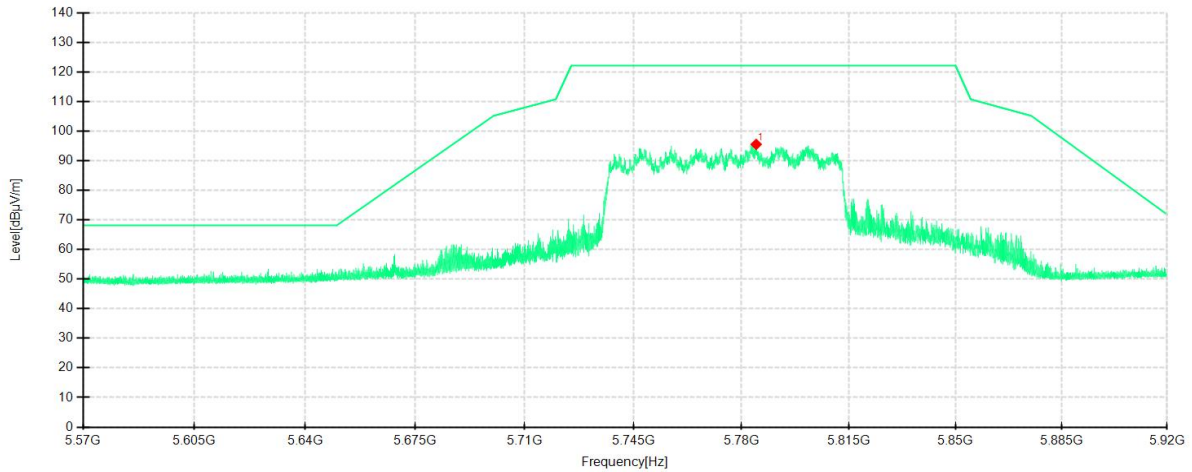
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5791.6975	89.43	97.12	7.69	122.20	25.08	200	291	Horizontal	/
1	5791.7500	88.10	95.81	7.71	122.20	26.39	100	261	Vertical	/

IEEE 802.11ac VHT80 mode

Frequency 5775MHz

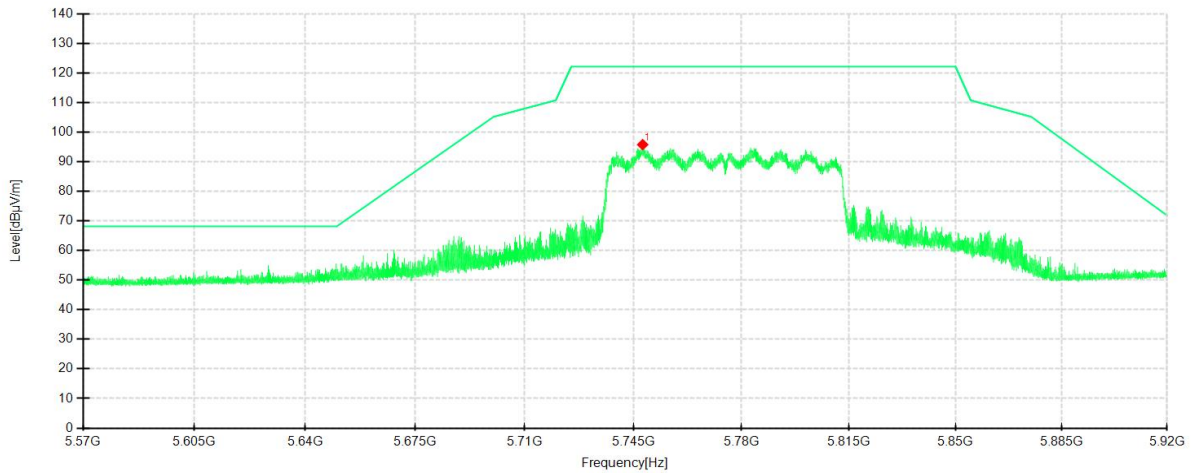
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5784.8125	87.85	95.56	7.71	122.20	26.64	200	291	Horizontal	/
1	5748.0100	87.90	95.80	7.90	122.20	26.40	100	47	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

7.8. AC Conducted Emissions Measurement

7.8.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

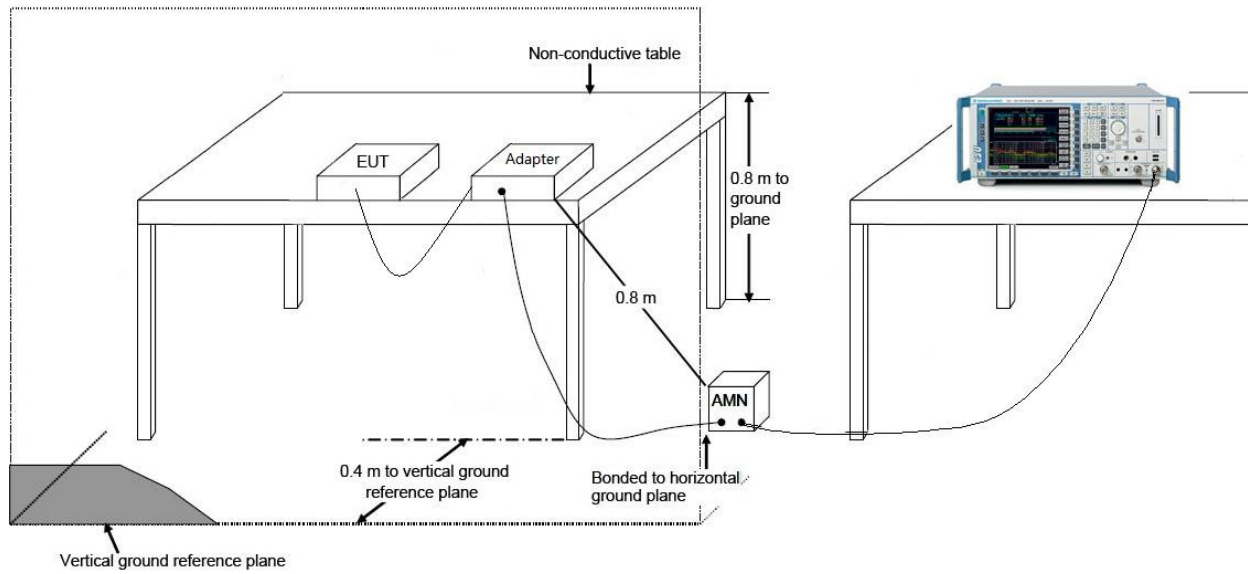
7.8.2. Test Procedure

The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.8.3. Test Setup



7.8.4. Test Result

Note: Test is not applicable to this Equipment. This EUT is no AC mains power ports.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **MONITOR WITH RECEIVER** is in compliance with Part 15E of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. This report is issued by the following laboratory premises:
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