



Test report No: 2620398R-0E3012110014-A

FCC TEST REPORT

Product Name	Peplink Pepwave Wireless Product
Trademark	
Model and /or type reference	Balance 310 5G BPL-310-5GK-T-PRM
FCC ID	2BVXV-P1BE05
Applicant's name / address	PSG TECHNOLOGIES (S) PTE. LIMITED 68 CIRCULAR ROAD, #02-01, SINGAPORE 049422
Manufacturer's name / address	PSG TECHNOLOGIES (S) PTE. LIMITED 68 CIRCULAR ROAD, #02-01, SINGAPORE 049422
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart B:2024, Class A
Verdict Summary	IN COMPLIANCE
Documented By (Senior Adm. Specialist / Anny Chou)	Anny Chou
Approved By (Director / Vincent Lin)	
Date of Receipt	2026/02/23
Date of Issue	2026/07/20
Report No.	2620398R-0E3012110014-A
Report Version	V1.0

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Test Photos: Please refer to the file: 2620398R-0E3012110014-A -Test Photo

Product Photos: Please refer to the file: 2620398R-Product Photos

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

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1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
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5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Report No.	Version	Description	Issued Date
2620398R-0E3012110014-A	V1.0	Initial issue of report.	2026-07-20

1. General Information

1.1. EUT Description

Product Name	Peplink Pepwave Wireless Product
Trademark	
Model No.	Balance 310 5G BPL-310-5GK-T-PRM
EUT Max Frequency	5850MHz
EUT Rated Voltage	Terminal Block: 12V - 54V DC 2x Power DIN: 54V DC
EUT Test Voltage (Final Test Mode)	AC 120V / 60Hz to DC 54V (AC Adapter) DC 12V

Component	
GPS Antenna	MFR: An jie M/N: AEGQ3S-B0002
WIFI Antenna*2	MFR: WIESON M/N: ARY121-1976-001-00
Cellular Antenna*4	 MFR: M/N: 04-410188-00
Power Adapter	MFR: FSP M/N: FSP280-AWAU3 Input: 100-240V~, 3.3A, 50-60Hz Output: 54.0V==5.19A 280.0W Cable Out: Non-Shielded, 1.6m, with two ferrite core bonded.
Power Cord	Non-Shielded, 1.8m

Note:

- The EUT is available in different model names for marketing purposes. The identification of test sample is Balance 310 5G.

Model No.	WWAN module
Balance 310 5G BPL-310-5GK-T-PRM	FN990A40-HP

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode (Conducted Emission)	
Mode 1:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Mode 2:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Single Power(Source A), AC Adapter(FSP280-AWAU3)
Mode 3:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Single Power(Source B), AC Adapter(FSP280-AWAU3)
Mode 4:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot A + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Mode 5:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN WCDMA Band 5 Link + SIM Slot A + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Mode 6:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Idle + SIM Slot A + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Mode 7:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN e-SIM on + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Pre-Test Mode (Radiated Emission)	
Mode 1:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Dual Power, AC Adapter(FSP280-AWAU3)
Mode 2:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Single Power(Source A), AC Adapter(FSP280-AWAU3)
Mode 3:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Single Power(Source B), AC Adapter(FSP280-AWAU3)
Mode 4:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Terminal block Power, DC 12V
Mode 5:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN(PoE) 1~8: 2.5Gbps + USB-C 1~2: Load + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Link + SIM Slot A + USB-C Console), Terminal block Power, DC 54V
Mode 6:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot A + USB-C Console), Terminal block Power, DC 12V
Mode 7:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN WCDMA Band 5 Link + SIM Slot A + USB-C Console), Terminal block Power, DC 12V
Mode 8:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n41 Idle + SIM Slot A + USB-C Console), Terminal block Power, DC 12V
Mode 9:	Normal Operation(SFP+: 10Gbps + WAN: 10Gbps + LAN 1~8: 2.5Gbps + GPS + Wi-Fi 5G + Wi-Fi 2.4G + WWAN e-SIM on + SIM Slot A + USB-C Console), Terminal block Power, DC 12V
Final Test Mode	
Conducted Emission	Mode 1
Radiated Emission	Mode 4

Note:

1. Refer to Certified Cellular module report worst band to test.
2. The worst SIM Card slot is Slot-A.
3. This product supports client/master mode, but it does not affect EMC testing after evaluation.

1.3. Configuration & Details of Tested System

Test Item	CE			
Connection Diagram				
Remote Wireless Devices Notebook PC PoE Load*8 Switch Notebook PC*2 Electric load*2 GPS Antenna SFP+ Transceiver EUT A B C D E F G				
Tested System Details				
Product	Manufacturer	Model No.	No.	Cable Type & Description
Notebook PC	Lenovo	TP00116D	A	WAN, shielded 3m
PoE Load*8	N/A	N/A	B	LAN*8, non-shielded 3m
Electric load*2	N/A	N/A	C	USB-C*2, shielded 1.8m
Switch	N/A	N/A	D	LAN*8, non-shielded 3m
			E	Fiber, non-shielded 3m
GPS Antenna	An jie	AEGQ3S-B0002	F	SMA, shielded 3m
Floating	N/A	N/A	G	USB-C, shielded 1.8m
SFP+ Transceiver	N/A	FTLX8574D3BCL		
Notebook PC*2	Lenovo	TP00116D		
Wireless Devices Inf.				
Product	Manufacturer		Model No.	
UXM 5G Wireless Test Platform	Keysight		E7515B	
GPS Simulator	Orolia		GSG-5	

Note:

- ☒ Use Full system setup configuration determines Worst-Case Mode.
- ☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

Test Item	RE / RF			
Connection Diagram				
Remote Wireless Devices Notebook PC Switch Notebook PC*2 A B C SFP+ Transceiver EUT D GPS Antenna E				
Tested System Details				
Product	Manufacturer	Model No.	No.	Cable Type & Description
Notebook PC	Lenovo	TP00116D	A	WAN, shielded 3m
Switch	N/A	N/A	B	LAN*8, non-shielded 3m
			C	Fiber, non-shielded 3m
GPS Antenna	An jie	AEGQ3S-B0002	D	SMA, shielded 3m
Floating	N/A	N/A	E	USB-C*3, shielded 1.8m
SFP+ Transceiver	N/A	FTLX8574D3BCL		
Notebook PC*2	Lenovo	TP00116D		
Wireless Devices Inf.				
Product	Manufacturer		Model No.	
UXM 5G Wireless Test Platform	Keysight		E7515B	
GPS Simulator	Orolia		GSG-5	

Note:

- ☒ Use Full system setup configuration determines Worst-Case Mode.
- ☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

1.4. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.3.
2	Turn on the power of all equipment.
3	All the features of the EUT operation normally. Start Test.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
- ☐ Deviations from the test standards as below description:

Emission				
Performed Item	Normative References	Test Performed	Test Site	Verdict
Conducted Emission (Class A)	FCC CFR Title 47 Part 15 Subpart B:2024	Yes	HY-SR09	Pass
Radiated Emission (Class A)	FCC CFR Title 47 Part 15 Subpart B:2024	Yes	FS-CB01 FS-CB04	Pass

Note:

1. Test Site information refers to test Laboratory Information.
2. The test facility, measurement instrumentation and measurement methods used for verifying the compliance of ITE or digital apparatus with FCC CFR Title 47 Part 15 Subpart B shall comply either with the requirements in ANSI C63.4-2014, a ANSI C63.4a-2017.

Test Laboratory:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory
Address:	No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C
Phone number:	+886 2-77532700
Fax number:	+886 2-26026881
Test Site	
FS: No.6, Lane 75, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C	
HY: No.26, Huaya 1 st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C	

2.2. List of Test Equipment

Conducted Emission / HY-SR09

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
EMI Test Receiver	R&S	ESR3	102041	2024/7/10	2026/7/9
Two-Line V-Network	R&S	ENV216	101493	2025/11/25	2027/11/24
Two-Line V-Network	R&S	ENV216	101492	2025/12/10	2027/12/9
Impedance Stabilization Network	TESEQ	ISN T800	61676	2024/6/5	2026/6/4
Impedance Stabilization Network	TESEQ	ISN T8-Cat6	61286	2024/6/18	2026/6/17
Impedance Stabilization Network	TESEQ	ISN ST08	61833	2024/6/19	2026/6/18
Coaxial Cable	SUHNER	RG 400	HC001-RG	2025/5/30	2026/5/29
Note : ISN T800 for LAN 10Mbps to 1Gbps, T8-Cat6 for LAN above 1Gbps, ST08 for Shielded LAN					
Test Software version : e3 V9					

Note: Test Receiver Detector: Quasipeak and Average Bandwidth: 9kHz

Radiated Emission (Below 1GHz) / FS-CB01

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01124	2025/10/1	2026/9/30
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01126	2025/10/1	2026/9/30
EMI Test Receiver	R&S	ESR7	102255	2026/3/12	2027/3/11
EMI Test Receiver	R&S	ESR7	102254	2025/12/9	2026/12/8
Coaxial Cable	SUHNER	SUCOFLEX 106	AC043-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC044-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC045-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC046-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC047-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC049-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC051-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC052-SF	2026/7/5	2027/7/4
Preamplifier	SGH	SGH0301	20211007-1	2026/4/7	2027/4/6
Preamplifier	SGH	SGH0301	20211007-5	2025/12/23	2026/12/22
NSA	DEKRA	N/A	N/A	2026/7/6	2027/7/5
Test Software version : e3 V9					

Note: Test Receiver Detector: Quasipeak Bandwidth: 120kHz

Radiated Emission (Above 1GHz) / FS-CB04

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Double Ridged Guide Horn Antenna	RF SPIN	DRH18-E	KV2D09A18ES	2025/9/15	2026/9/14
Horn Antenna	COM-POWER	AH-840	10090013	2025/10/7	2026/10/6
EMI Test Receiver	R&S	ESR26	101385	2026/4/21	2027/4/20
Signal Analyzer	R&S	FSV40	101176	2026/5/15	2027/5/14
Coaxial Cable	VEGINEAN	VCA-VA500	HQ001C	2025/8/29	2026/8/28
Coaxial Cable	VEGINEAN	VCA-VA500	HQ004C	2025/8/29	2026/8/28
Coaxial Cable	VEGINEAN	VCA-VA800	HQ005C	2025/8/29	2026/8/28
Coaxial Cable	VEGINEAN	VCA-VA800	HQ006C	2025/8/29	2026/8/28
Microwave Preamplifier	SGH	SGH118	20200301	2025/8/7	2026/8/6
Microwave Preamplifier with cable	SGH	SGH184	20200302	2025/7/25	2026/7/24
VSWR	DEKRA	N/A	N/A	2025/8/9	2026/8/8
Test Software version : e3 V9					

2.3. Measurement Uncertainty

Test Items	Uncertainty
Conducted Emission	± 2.40 dB
Radiated Emission (Below 1GHz)	± 5.60 dB
Radiated Emission (Above 1GHz)	± 4.70 dB

2.4. Test Environment

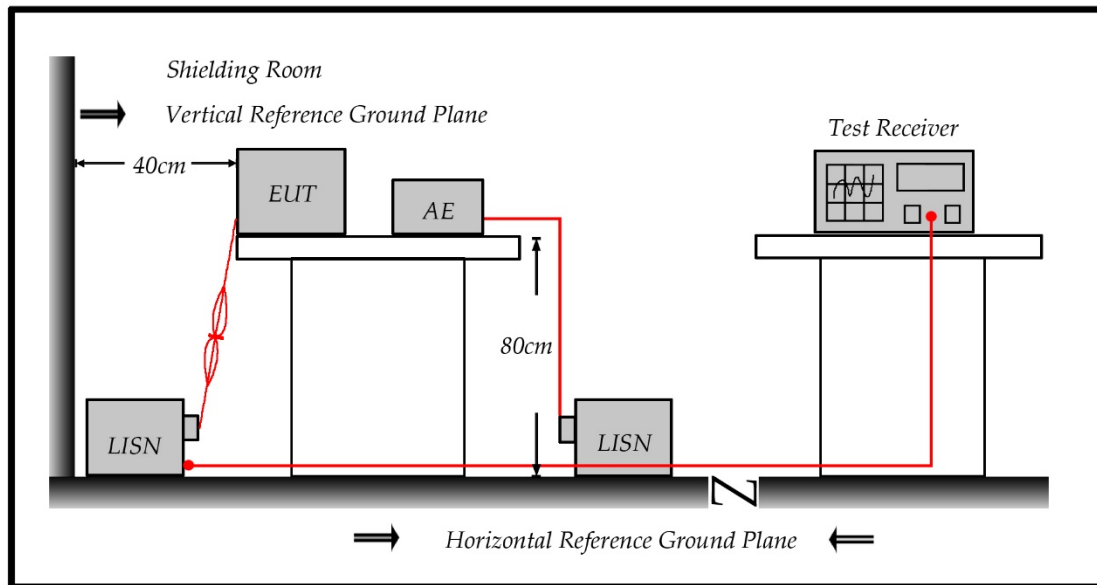
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	20-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	20-90

3. Conducted Emission

3.1. Test Specifications

According to Standard : FCC Part 15 Subpart B & CISPR 22

3.2. Test Setup



3.3. Limit

Conducted emissions limits (AC mains power terminals)				
Frequency range (MHz)	Class A Quasi-peak (dBuV)	Class A Average (dBuV)	Class B Quasi-peak (dBuV)	Class B Average (dBuV)
0.15 - 0.5	79	66	66 to 56	56 to 46
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50
Note:				
1. The more stringent limit applies at transition frequencies.				
2. The limit level in dBuV decreases linearly with the logarithm of frequency				

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

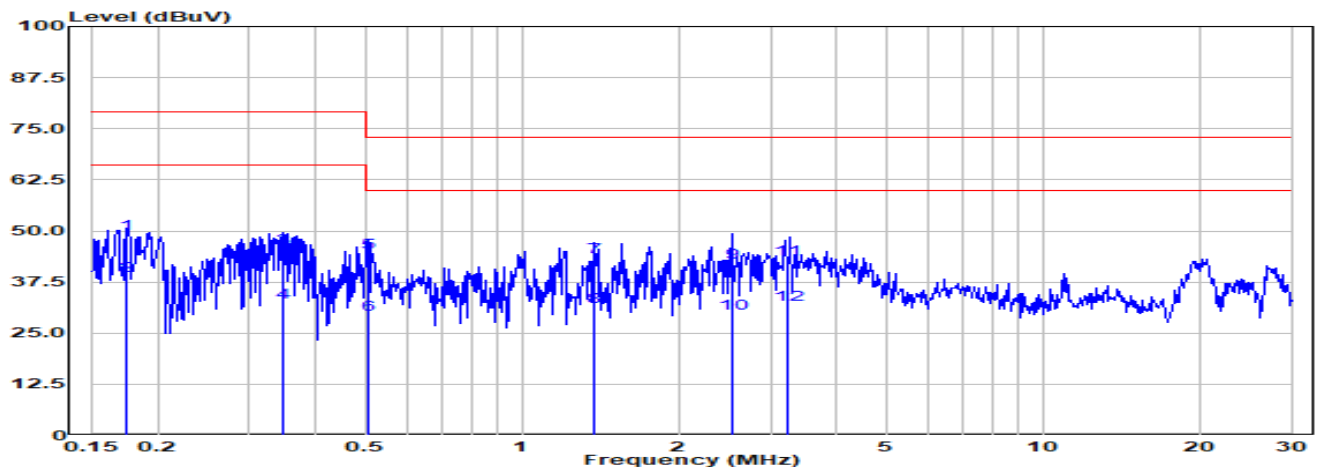
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

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

3.5. Test Result

Model No	Balance 310 5G	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2026-03-09
Test Mode	Mode 1	Engineer	Sun Wu
Phase	Line	Temperature (°C)	20
Test Condition	--	Humidity (%RH)	63

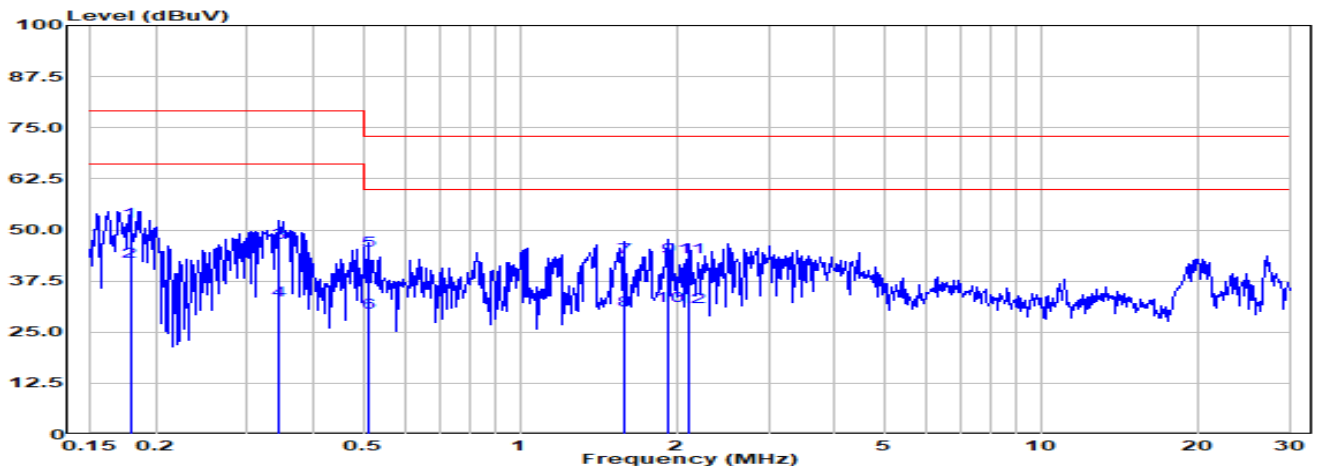


No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	0.173	49.21	79.00	-29.79	39.55	9.66	QP
2	0.173	39.00	66.00	-27.00	29.34	9.66	Average
3	0.349	45.92	79.00	-33.08	36.27	9.66	QP
4	0.349	32.61	66.00	-33.39	22.96	9.66	Average
5	0.506	44.82	73.00	-28.18	35.15	9.66	QP
6	0.506	29.47	60.00	-30.53	19.81	9.66	Average
7	1.379	43.75	73.00	-29.25	34.03	9.72	QP
8	1.379	31.48	60.00	-28.52	21.76	9.72	Average
9	2.537	42.24	73.00	-30.76	32.47	9.77	QP
10	2.537	29.74	60.00	-30.26	19.97	9.77	Average
11	3.225	43.05	73.00	-29.95	33.25	9.79	QP
12	3.225	31.95	60.00	-28.05	22.16	9.79	Average

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

Model No	Balance 310 5G	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2026-03-09
Test Mode	Mode 1	Engineer	Sun Wu
Phase	Neutral	Temperature (°C)	20
Test Condition	--	Humidity (%RH)	63



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.179	52.02	79.00	-26.98	42.41	9.61	QP
2	0.179	42.40	66.00	-23.60	32.78	9.61	Average
3	0.345	46.84	79.00	-32.16	37.22	9.62	QP
4	0.345	32.83	66.00	-33.17	23.22	9.62	Average
5	0.511	45.08	73.00	-27.92	35.45	9.63	QP
6	0.511	29.83	60.00	-30.17	20.20	9.63	Average
7	1.593	43.46	73.00	-29.54	33.75	9.71	QP
8	1.593	30.41	60.00	-29.59	20.70	9.71	Average
9	1.933	43.33	73.00	-29.67	33.59	9.74	QP
10	1.933	31.51	60.00	-28.49	21.77	9.74	Average
11	2.118	43.38	73.00	-29.62	33.64	9.74	QP
12	2.118	31.23	60.00	-28.77	21.49	9.74	Average

Remark:

1. ""*"" means this data is the worst margin;""!"" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

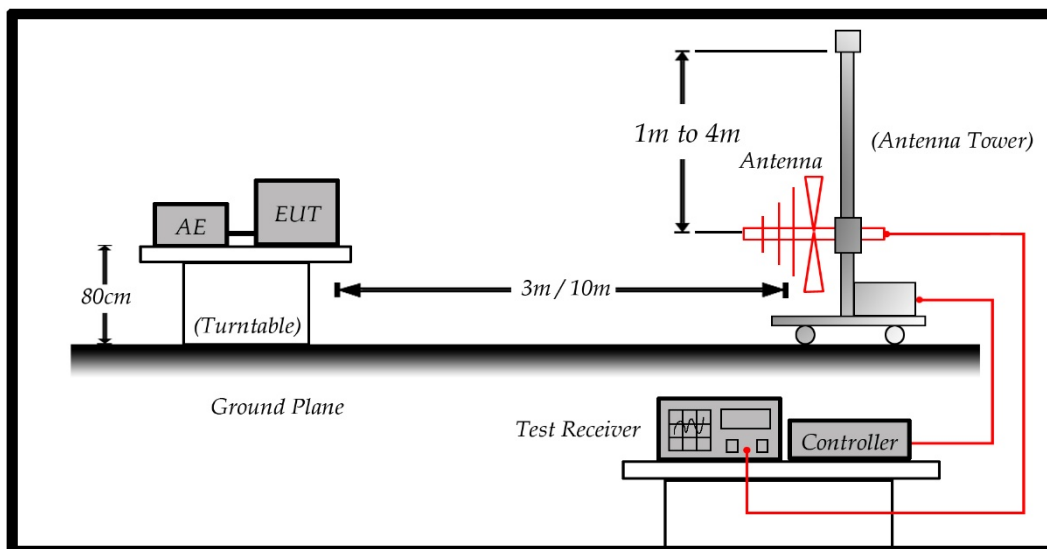
4. Radiated Emission

4.1. Test Specification

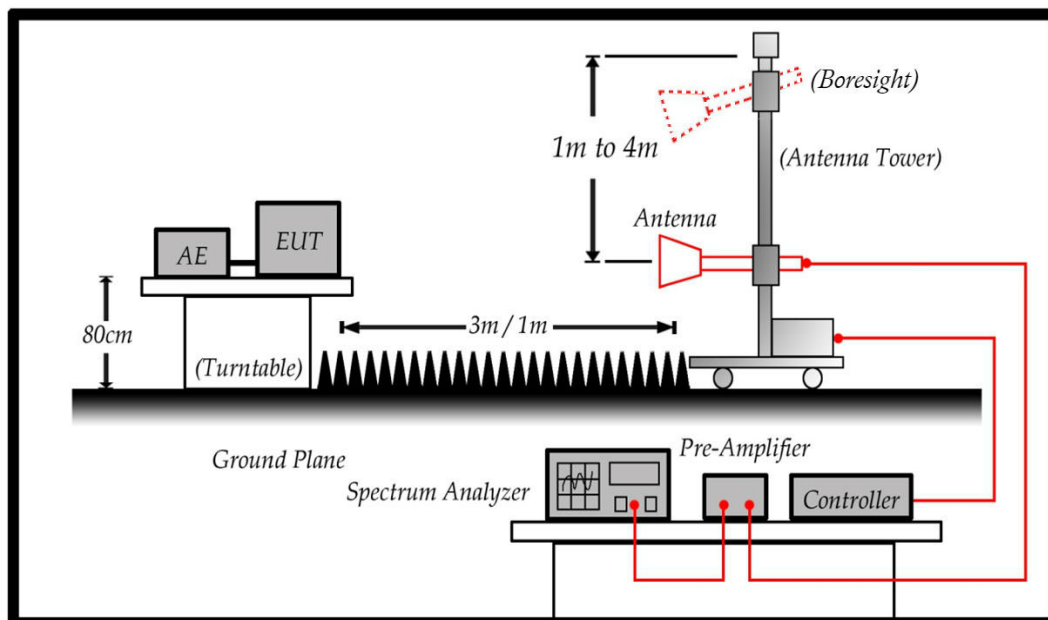
According to Standard : FCC Part 15 Subpart B & CISPR 22

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance(m)	dBuV/m
30-88	10	39
88-216	10	43.5
216-960	10	46.4
960-1000	10	49.5
1000-40000	3	60
18000-40000	1	69.5

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. $\text{RF Voltage (dBuV/m)} = 20 \log \text{RF Voltage (uV/m)}$

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna (boresight antenna tower) can move 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 measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

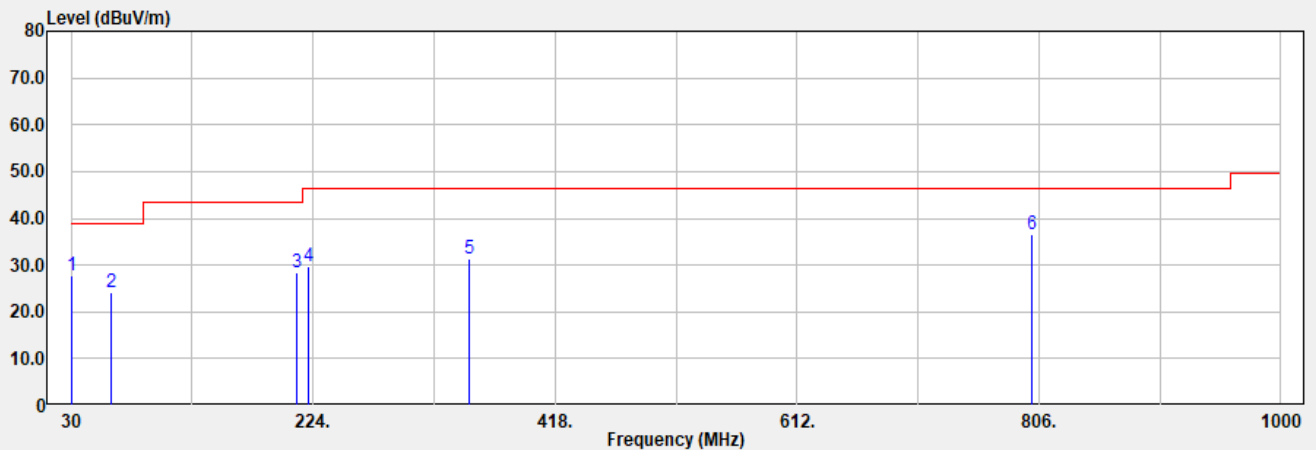
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (Test Receiver) is 120 kHz and above 1GHz is 1MHz.

4.5. Test Result

Model No	Balance 310 5G	Site	FS-CB01
Test Voltage	DC 12V	Test Date	2026-07-16
Test Mode	Mode 4	Engineer	Don HSU
Polarity	Horizontal	Temperature (°C)	22.1
Test Condition	--	Humidity (%RH)	54

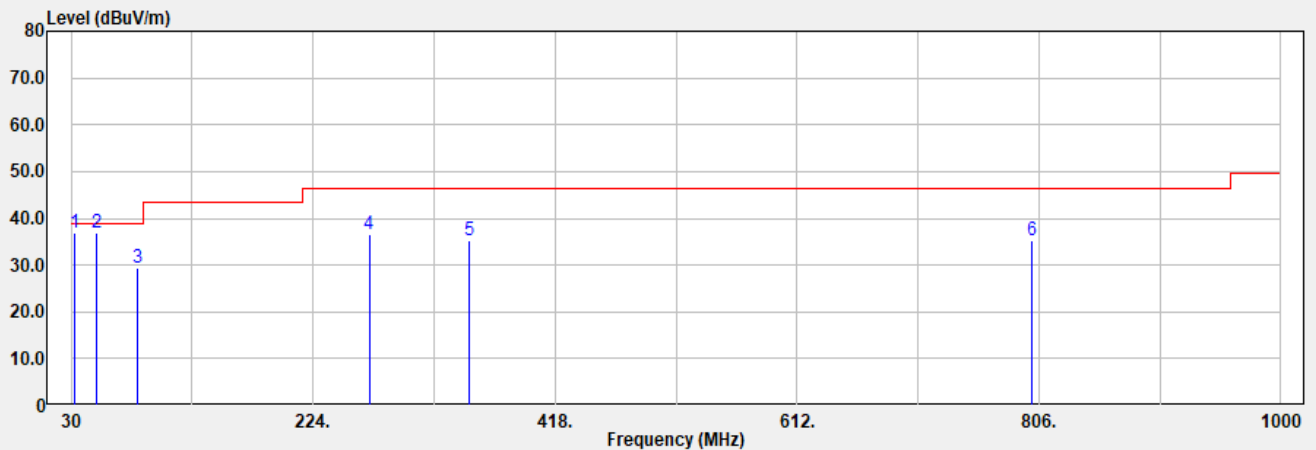


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	30.243	27.61	39.00	-11.39	52.77	-25.16	300	138	QP
2	62.616	24.02	39.00	-14.98	48.05	-24.03	100	267	QP
3	211.390	28.48	43.50	-15.02	54.38	-25.90	300	138	QP
4	220.120	29.72	46.40	-16.68	55.43	-25.71	300	98	QP
5	349.130	31.47	46.40	-14.93	51.79	-20.32	300	148	QP
6*	800.180	36.48	46.40	-9.92	46.62	-10.14	100	164	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	Balance 310 5G	Site	FS-CB01
Test Voltage	DC 12V	Test Date	2026-07-16
Test Mode	Mode 4	Engineer	Don HSU
Polarity	Vertical	Temperature (°C)	22.1
Test Condition	--	Humidity (%RH)	54

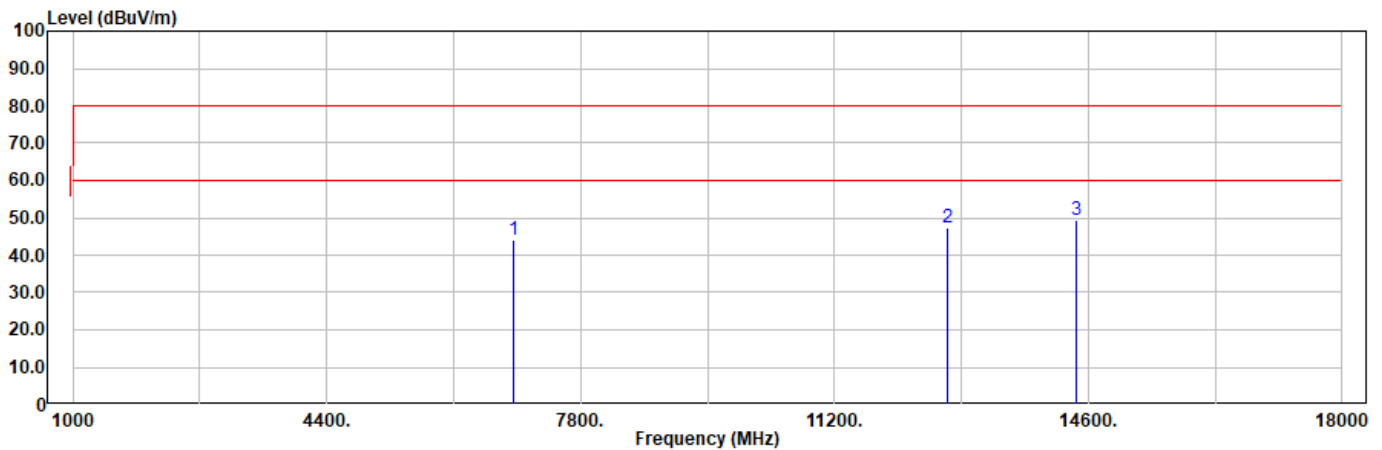


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1*	33.390	36.91	39.00	-2.09	61.60	-24.69	100	51	QP
2	50.429	36.79	39.00	-2.21	59.84	-23.05	100	17	QP
3	83.714	29.45	39.00	-9.55	58.36	-28.91	200	85	QP
4	268.984	36.46	46.40	-9.94	58.91	-22.45	100	176	QP
5	349.373	35.33	46.40	-11.07	55.44	-20.11	100	237	QP
6	800.180	35.28	46.40	-11.12	45.09	-9.81	200	303	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	Balance 310 5G	Site	FS-CB04
Test Voltage	DC 12V	Test Date	2026-07-08
Test Mode	Mode 4	Engineer	Nilk Chen
Polarity	Horizontal	Temperature (°C)	24.1
Test Condition	--	Humidity (%RH)	61

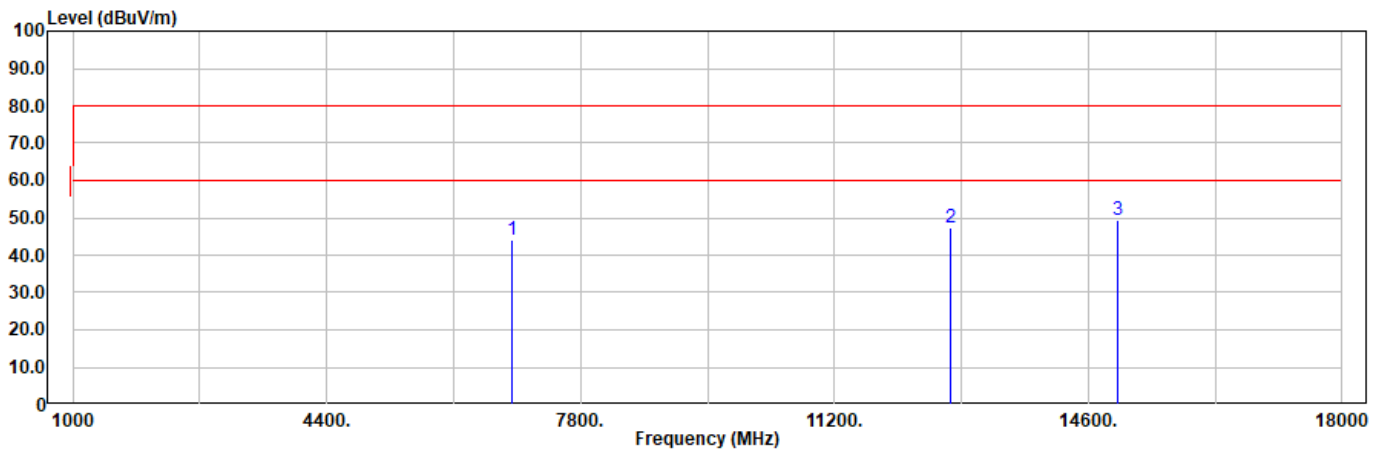


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	6899.000	44.21	80.00	-35.79	45.67	-1.46	200	23	Peak
2	12721.500	47.36	80.00	-32.64	40.65	6.71	100	349	Peak
3*	14442.750	49.20	80.00	-30.80	41.05	8.15	200	359	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	Balance 310 5G	Site	FS-CB04
Test Voltage	DC 12V	Test Date	2026-07-08
Test Mode	Mode 4	Engineer	Nilk Chen
Polarity	Vertical	Temperature (°C)	24.1
Test Condition	--	Humidity (%RH)	61

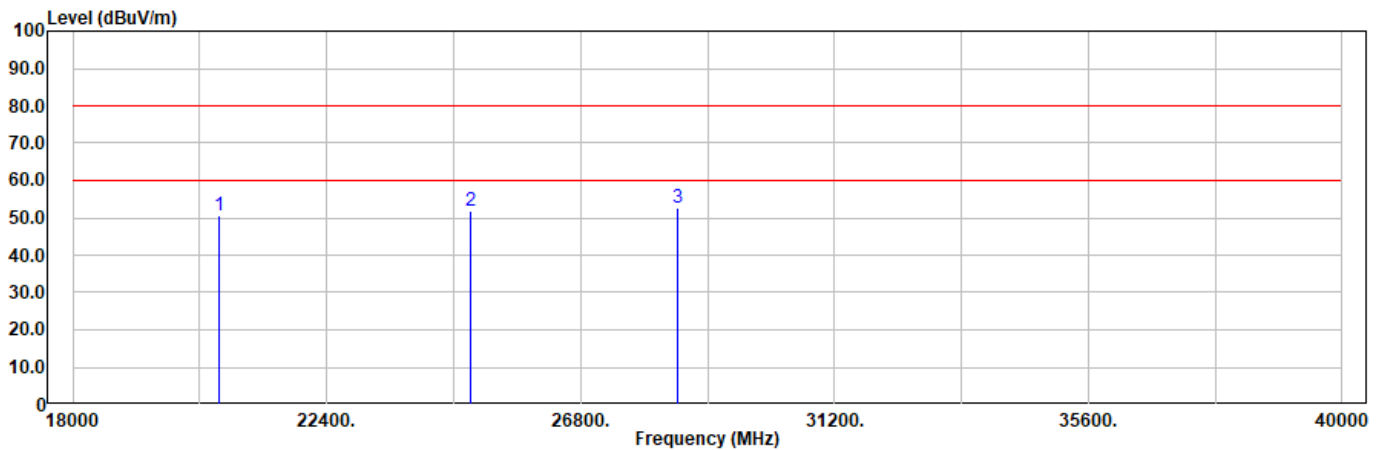


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	6882.000	44.20	80.00	-35.80	45.68	-1.48	100	117	Peak
2	12751.250	47.44	80.00	-32.56	40.62	6.82	200	337	Peak
3*	14986.750	49.35	80.00	-30.65	41.22	8.13	100	245	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	Balance 310 5G	Site	FS-CB04
Test Voltage	DC 12V	Test Date	2026-07-08
Test Mode	Mode 4	Engineer	Nilk Chen
Polarity	Horizontal	Temperature (°C)	24.1
Test Condition	--	Humidity (%RH)	61

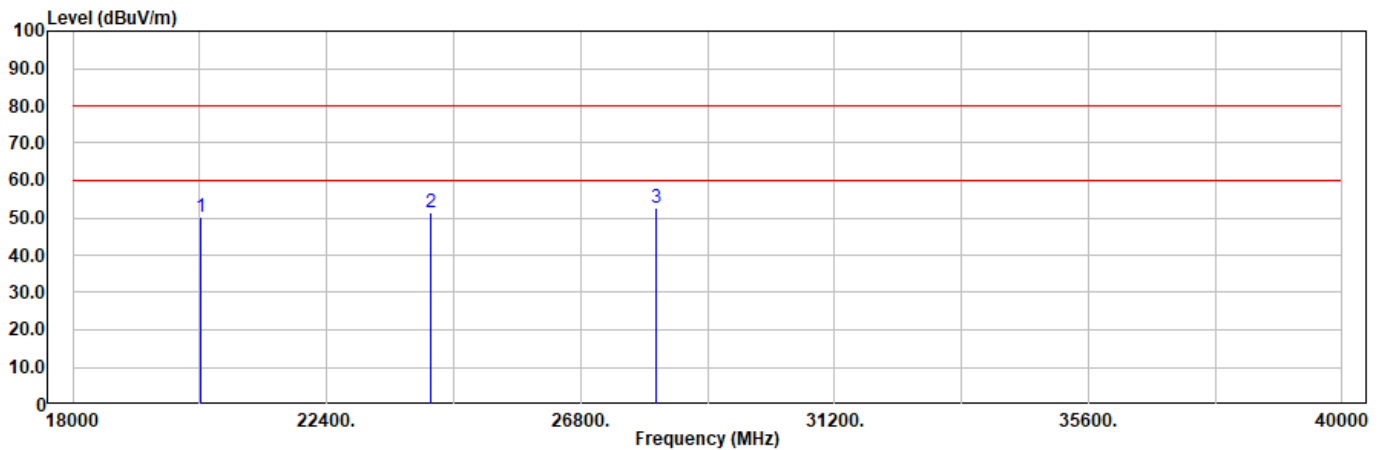


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	20547.510	50.57	80.00	-29.43	51.06	-0.50	100	334	Peak
2	24889.620	51.73	80.00	-28.28	49.96	1.77	100	153	Peak
3*	28486.650	52.81	80.00	-27.19	49.97	2.84	100	192	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	Balance 310 5G	Site	FS-CB04
Test Voltage	DC 12V	Test Date	2026-07-08
Test Mode	Mode 4	Engineer	Nilk Chen
Polarity	Vertical	Temperature (°C)	24.1
Test Condition	--	Humidity (%RH)	61



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	20212.620	50.22	80.00	-29.78	51.47	-1.25	100	224	Peak
2	24194.510	51.42	80.00	-28.58	50.17	1.25	100	279	Peak
3*	28112.680	52.84	80.00	-27.16	50.37	2.47	100	42	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.