

TEST REPORT

Applicant: Dawnrise Inc.

Address: 6215 Regency Parkway NW Suite 910 Norcross, GA 30071 U.S.A.

FCC ID: 2BTHI-NTL152RD

Product Name: Multi-Function Power Failure Night Light

Standard(s): 47 CFR Part 15, Subpart C (15.249)
ANSI C63.10-2020

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603V32099E-RF-00A

Date Of Issue: 2026/8/4

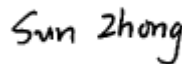
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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603V32099E-RF-00A	Original Report	2026/8/4

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Multi-Function Power Failure Night Light
EUT Model:	NTL152RD-UL-3
Multiple Model:	NTL152RD-UL
Operation Frequency:	5734-5862 MHz
Modulation Type:	CW
Maximum E-field:	94.38 dBμV/m @3m
Rated Input Voltage:	AC 120V or DC 3.7 from battery
Sample Number:	3PHB-1
EUT Received Date:	2026/7/7
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Just the difference in model name. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5734	3	5862
2	5792	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		5734	
Middle		5792	
Highest		5862	

1.3 Antenna Information Detail[^]

Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
PCB	Unknown	5725-5875	3
The Method of §15.203 Compliance:			
☒ Antenna must be permanently attached to the unit. ☐ Antenna must use a unique type of connector to attach to the EUT. ☐ Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.4 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.5 Description of Test Configuration

1.5.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	No
The engineering mode was provided by manufacturer [▲] . The maximum power was configured default setting.	

1.5.2 Support Equipment List and Details

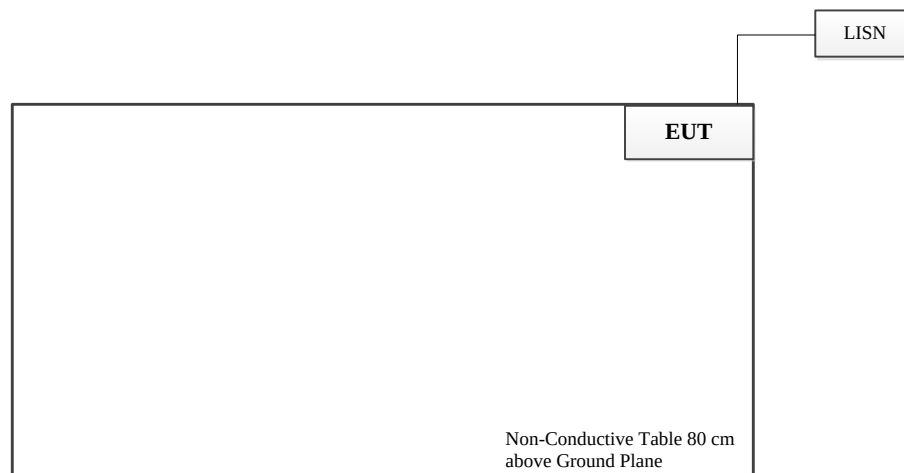
Manufacturer	Description	Model	Serial Number
/	/	/	/

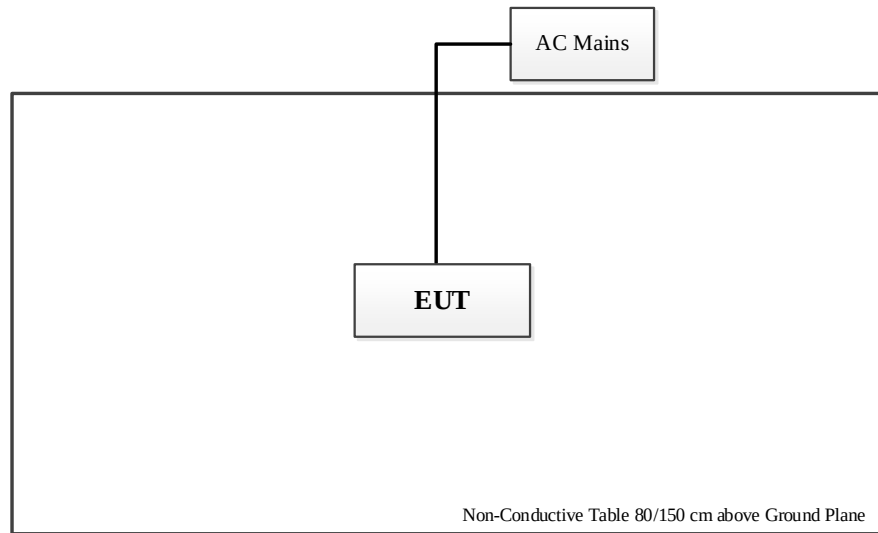
1.5.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.5.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Radiation Spurious Emissions:**1.6 Measurement Uncertainty**

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249	Radiated Emissions	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant
§1.1307	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

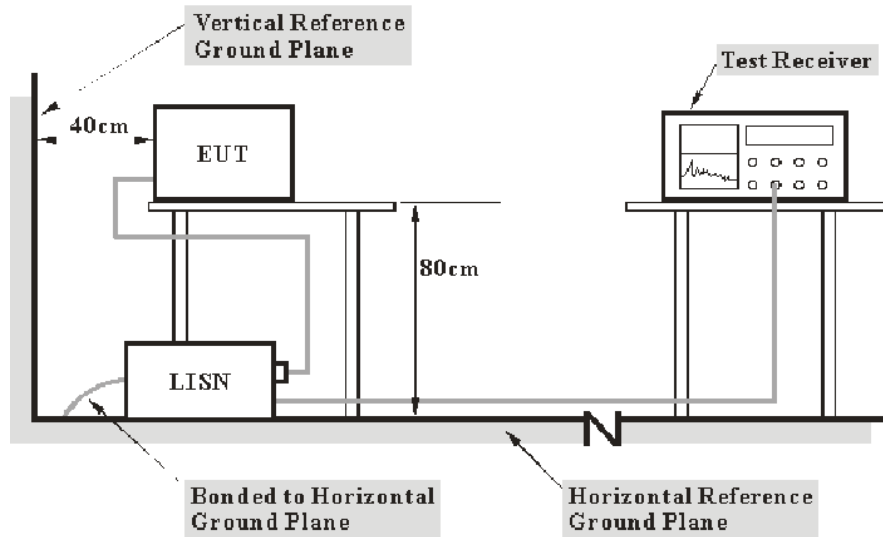
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiated Emissions

3.2.1 Applicable Standard

As per FCC §15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

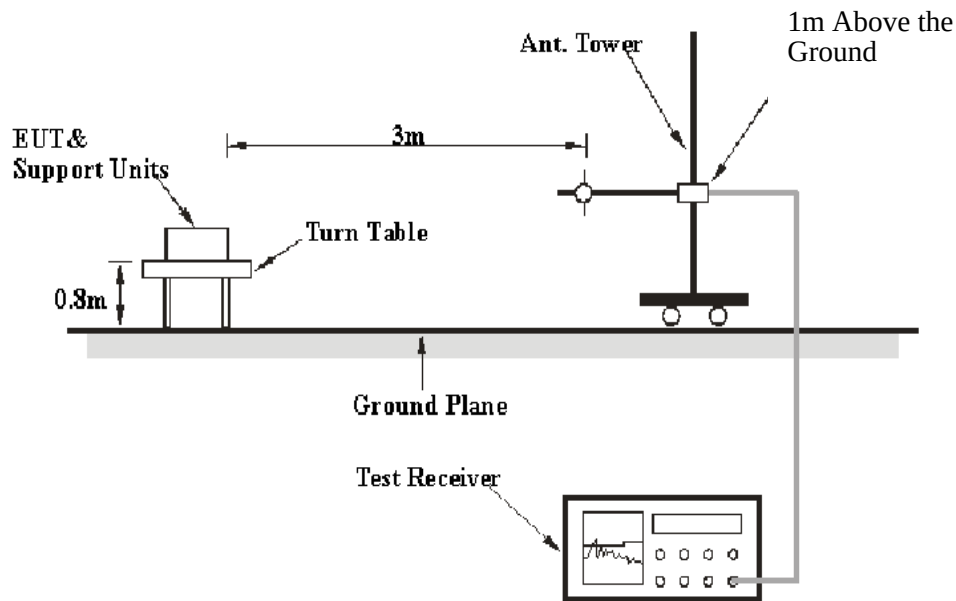
Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

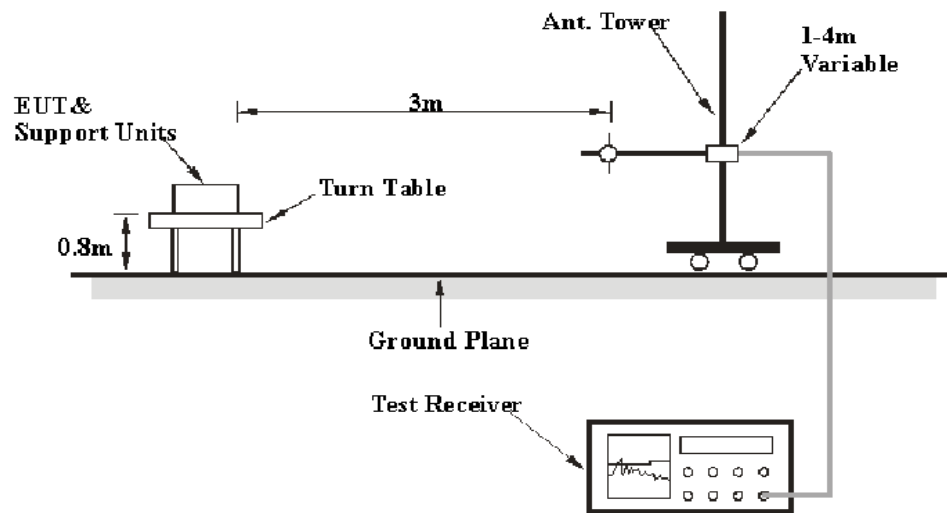
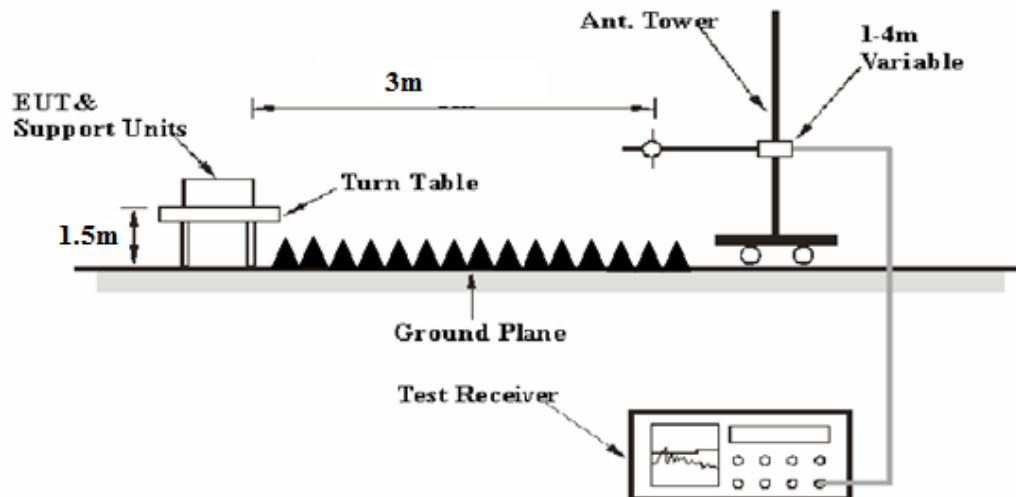
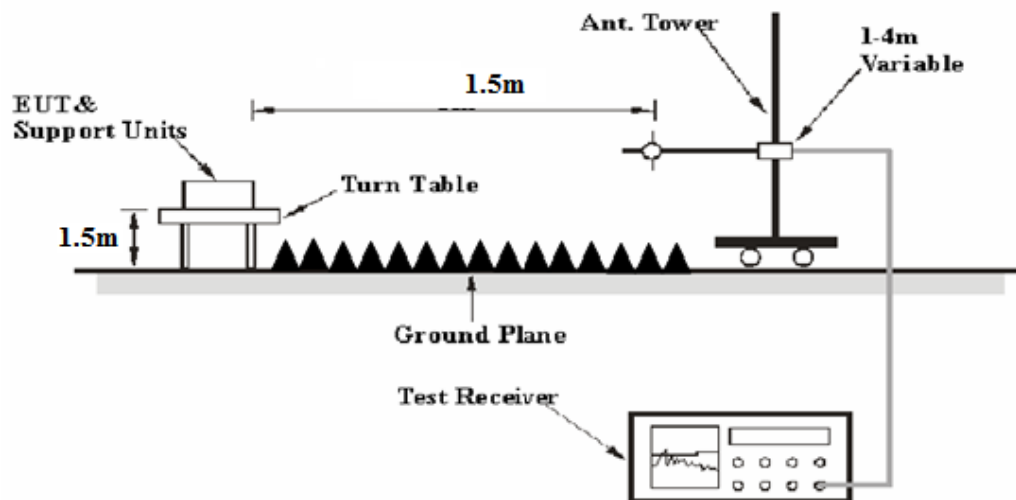
As per FCC §15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

3.2.2 EUT Setup

9kHz~30MHz:



30MHz ~1GHz:**1GHz – 26.5GHz:****26.5GHz – 40GHz:**

For the 9 kHz–30 MHz test, the magnetic antenna shall be positioned at a minimum height of 1 m above the ground, and measurements shall be taken in three antenna orientations: parallel, perpendicular, and ground-parallel.

The radiated emission test was performed in a 3m chamber using a setup in accordance with ANSI C63.10-2020. The applicable limits were those specified in FCC 15.209 and FCC 15.249.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 40 GHz.

During the radiated emissions test, the EMI test receiver and spectrum analyzer were configured as follows:

For 9kHz-1000MHz:

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak / Average	QP / AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak / Average	QP / AV
30MHz – 1000 MHz	120 kHz	300 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

For above 1GHz:

Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	Peak
AV	1MHz	5 kHz	Peak

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	Peak
AV	1MHz	10 Hz	Peak

3.2.4 Test Procedure

A maximization procedure was performed on the highest emissions to ensure EUT compliance under all installation configurations.

Quasi-peak measurement data were required for the frequency range of 9 kHz to 1 GHz, except for 9–90 kHz and 110–490 kHz, for which average measurements were employed. For frequencies above 1 GHz, both peak and average measurements were required.

If the maximized peak measured value is more than 6 dB below the QP/average limit, a QP/average measurement is not required.

All emissions under the average limit and under the noise floor have not recorded in the report.

The spurious emissions which below the limit more than 20dB was not be recorded.

For Radiated 26.5–40 GHz Test:

This test was performed at a distance of 1.5 m. According to C63.10, the test results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3 m to 1.5 m.

Distance extrapolation factor = $20 \log_{10} (\text{specified distance [3 m]} / \text{test distance [1.5 m]}) \text{ dB} = 6.0 \text{ dB}$.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

For 9kHz-26.5GHz:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 26.5GHz-40GHz

Factor = Antenna Factor + Cable Loss- Amplifier Gain -Distance extrapolation Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

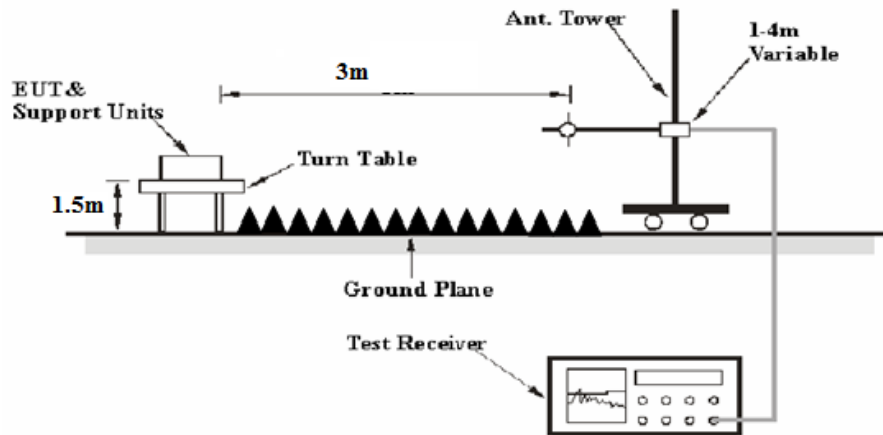
3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

3.3.2 EUT Setup



3.3.3 Test Procedure

In accordance with ANSI C63.10-2020, Section 6.9.2:

- The nominal IF filter bandwidth (3 dB RBW) shall be within 1% to 5% of the OBW, unless otherwise specified by the applicable requirement.
- Set the video bandwidth (VBW) to $\geq 3 \times \text{RBW}$.
- Detector: Peak.
- Trace mode: Max Hold.
- Sweep: Auto Couple.
- Allow the trace to stabilize.
- Measure the maximum emission width, as bounded by the frequencies associated with the two outermost amplitude points (the lower and upper frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

3.4 Antenna Requirement

3.4.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a) Antenna must be permanently attached to the unit.
- b) Antenna must use a unique type of connector to attach to the EUT.
- c) Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

3.4.2 Judgment

Please refer to the Antenna Information detail in Section 1.3.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	3PHB-1	Test Date:	2026/7/25
Test Site:	CE	Test Mode:	Transmitting
Tester:	Ella Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.3	Relative Humidity: (%)	51	ATM Pressure: (kPa)	100
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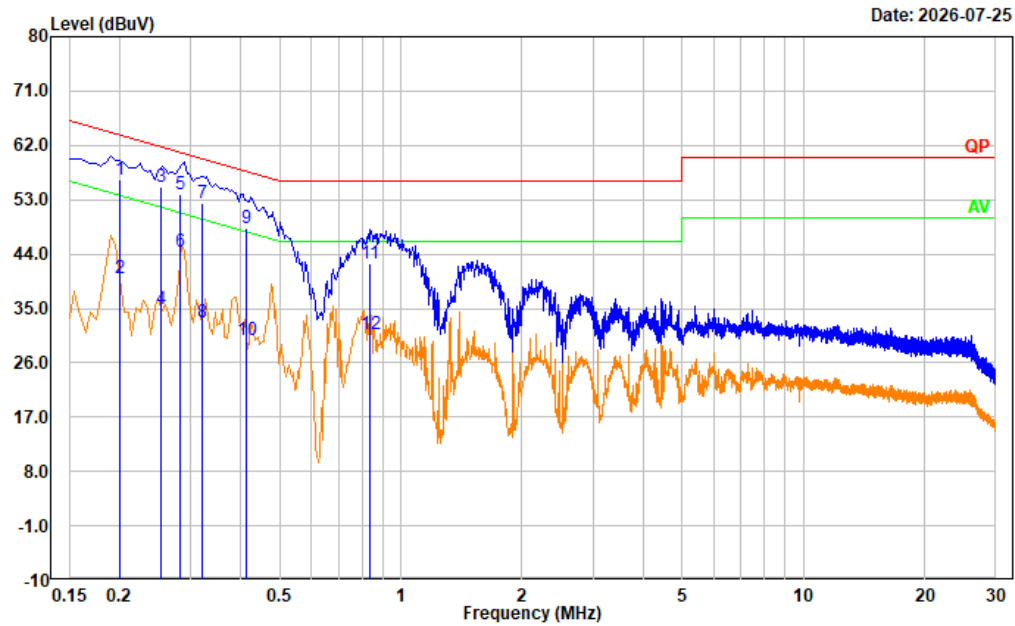
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2025/9/26	2026/9/25
R&S	EMI Test Receiver	ESR3	103104	2026/5/8	2027/5/7
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/11/10	2026/11/9
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

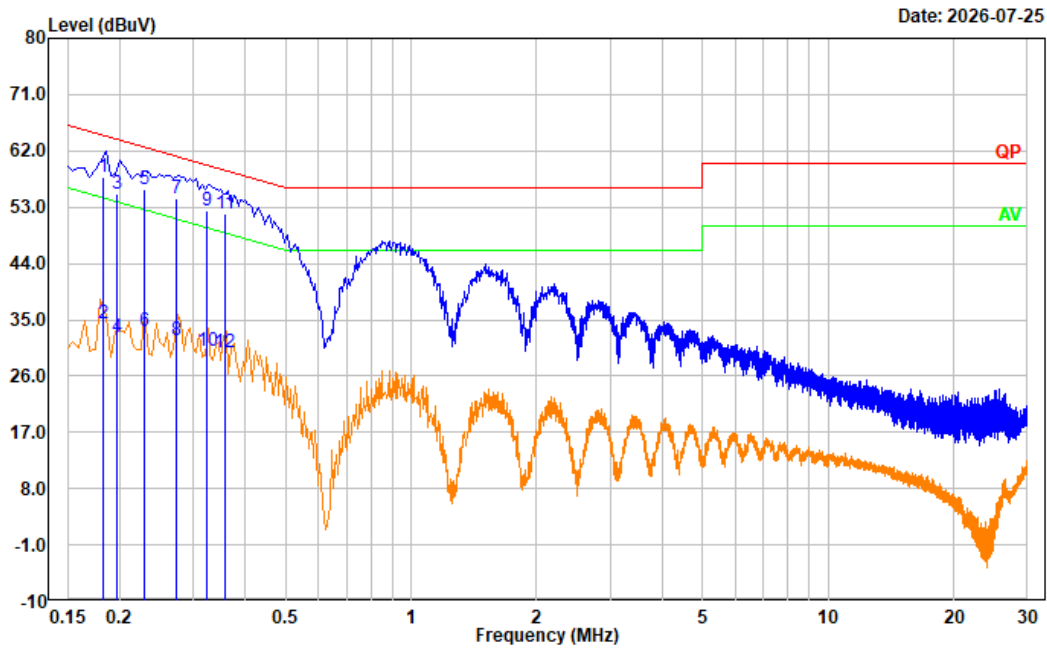
Note: The test was conducted on the low channel (5734MHz), as confirmed by pre-testing.

Project No.: 2603V32099E-EM
Tester: Ella Huang
Port: Line
Condition: RBW:9kHz
Test Mode: M1
Note:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.200	45.86	10.41	56.27	63.60	7.33	QP
2	0.200	29.68	10.41	40.09	53.60	13.51	Average
3	0.254	44.60	10.41	55.01	61.62	6.61	QP
4	0.254	24.43	10.41	34.84	51.62	16.78	Average
5	0.283	43.52	10.41	53.93	60.74	6.81	QP
6	0.283	33.88	10.41	44.29	50.74	6.45	Average
7	0.322	41.92	10.41	52.33	59.67	7.34	QP
8	0.322	22.22	10.41	32.63	49.67	17.04	Average
9	0.414	38.00	10.41	48.41	57.57	9.16	QP
10	0.414	19.28	10.41	29.69	47.57	17.88	Average
11	0.838	32.15	10.40	42.55	56.00	13.45	QP
12	0.838	20.34	10.40	30.74	46.00	15.26	Average

Project No.: 2603V32099E-EM
Tester: Ella Huang
Port: neutral
Condition: RBW:9kHz
Test Mode: M1
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.182	47.22	10.51	57.73	64.39	6.66	QP
2	0.182	23.92	10.51	34.43	54.39	19.96	Average
3	0.196	44.68	10.51	55.19	63.76	8.57	QP
4	0.196	21.60	10.51	32.11	53.76	21.65	Average
5	0.229	45.50	10.47	55.97	62.49	6.52	QP
6	0.229	22.71	10.47	33.18	52.49	19.31	Average
7	0.273	43.99	10.41	54.40	61.04	6.64	QP
8	0.273	21.22	10.41	31.63	51.04	19.41	Average
9	0.323	42.01	10.35	52.36	59.64	7.28	QP
10	0.323	19.76	10.35	30.11	49.64	19.53	Average
11	0.357	41.66	10.30	51.96	58.81	6.85	QP
12	0.357	19.48	10.30	29.78	48.81	19.03	Average

4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number	3PHB-1	Test Date:	2026/7/28
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	63	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/9
R&S	EMI Test Receiver	ESR3	102724	2026/2/27	2027/2/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/9
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/9
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2026/5/21	2027/5/20
Audix	Test Software	E3	191218 (V9)	N/A	N/A

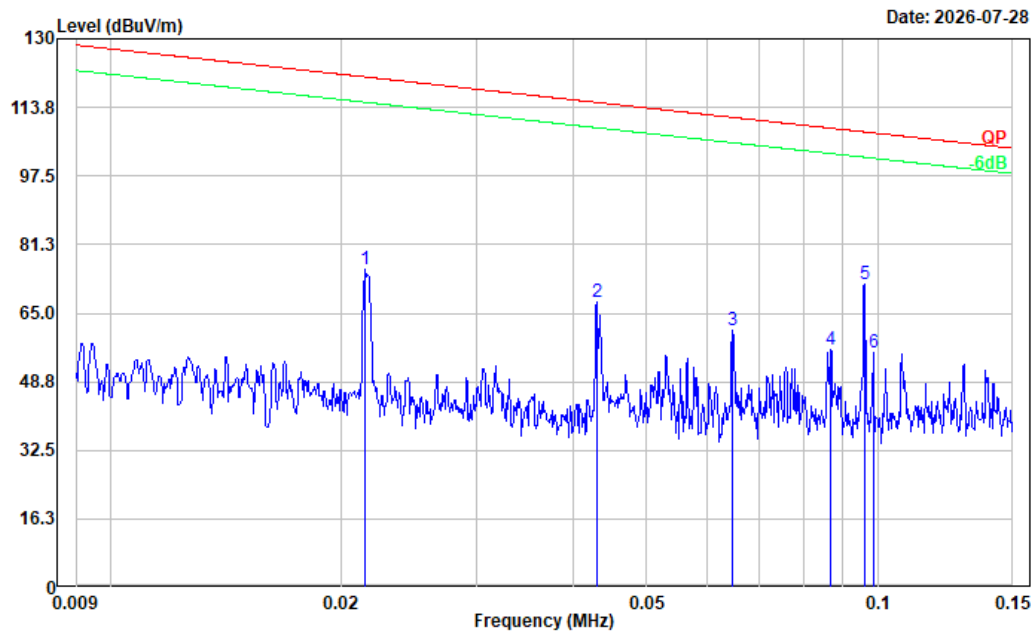
*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Note: Radiated spurious emissions measurements were performed on the low, middle, and high channels over the frequency range of 9 kHz to 1GHz. Only worst case (low channel 5734MHz) was reported.

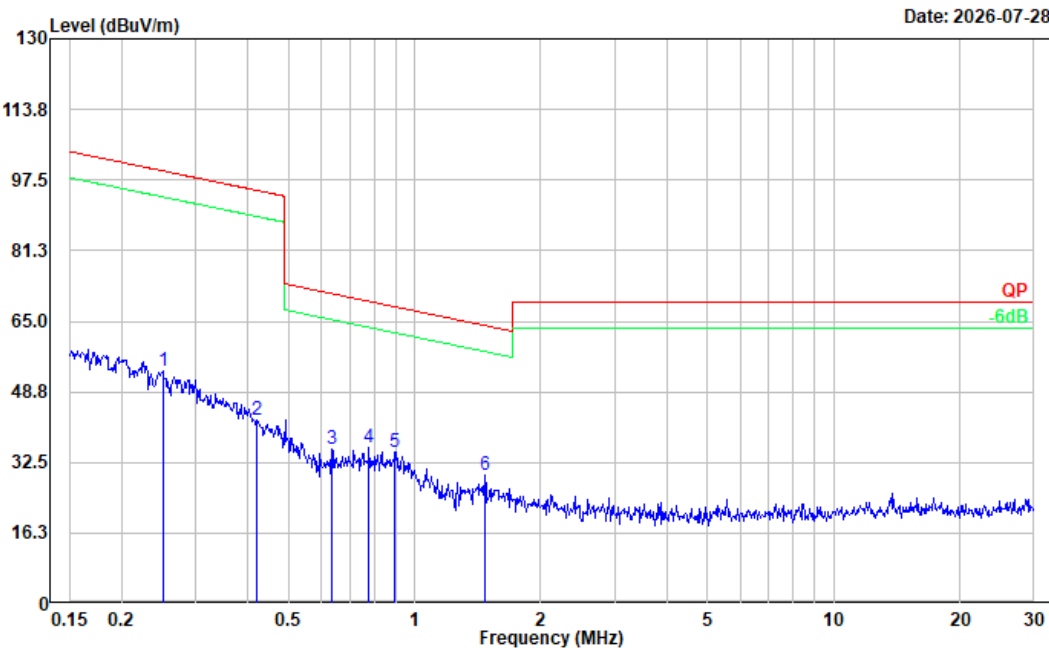
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Parallel
Note: Transimitting 5.8G Low Channel 5734MHz



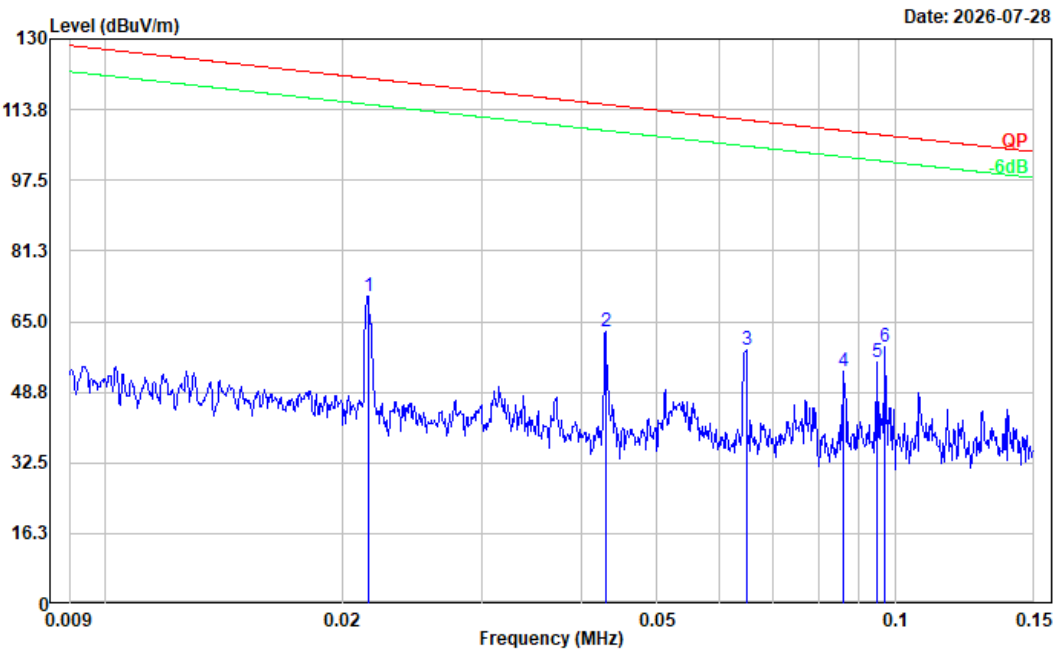
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	0.021	46.29	28.94	75.23	120.97	45.74	Peak
2	0.043	45.56	22.14	67.70	114.93	47.23	Peak
3	0.065	42.44	18.49	60.93	111.39	50.46	Peak
4	0.087	40.84	15.58	56.42	108.82	52.40	Peak
5	0.096	57.28	14.70	71.98	107.94	35.96	Peak
6	0.099	41.13	14.47	55.60	107.72	52.12	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Parallel
Note: Transimmitting 5.8G Low Channel 5734MHz



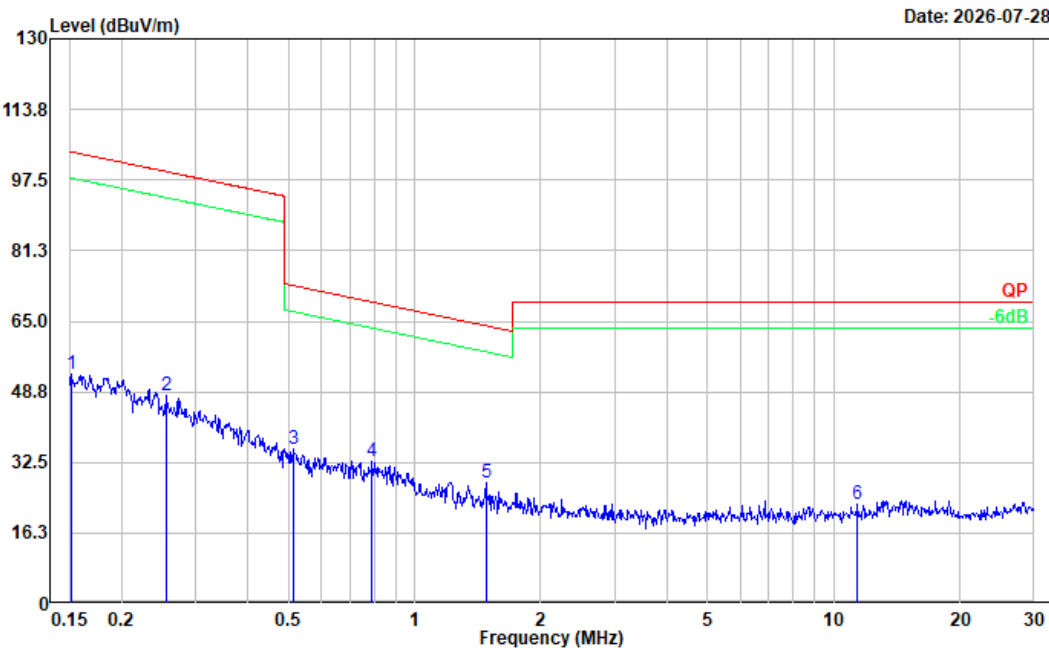
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.251	46.16	7.33	53.49	99.62	46.13	Peak
2	0.421	39.76	2.51	42.27	95.11	52.84	Peak
3	0.634	36.15	-0.60	35.55	71.52	35.97	Peak
4	0.779	38.27	-2.18	36.09	69.68	33.59	Peak
5	0.899	38.46	-3.42	35.04	68.42	33.38	Peak
6	1.472	35.61	-5.90	29.71	64.04	34.33	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Perpendicular
Note: Transimitting 5.8G Low Channel 5734MHz



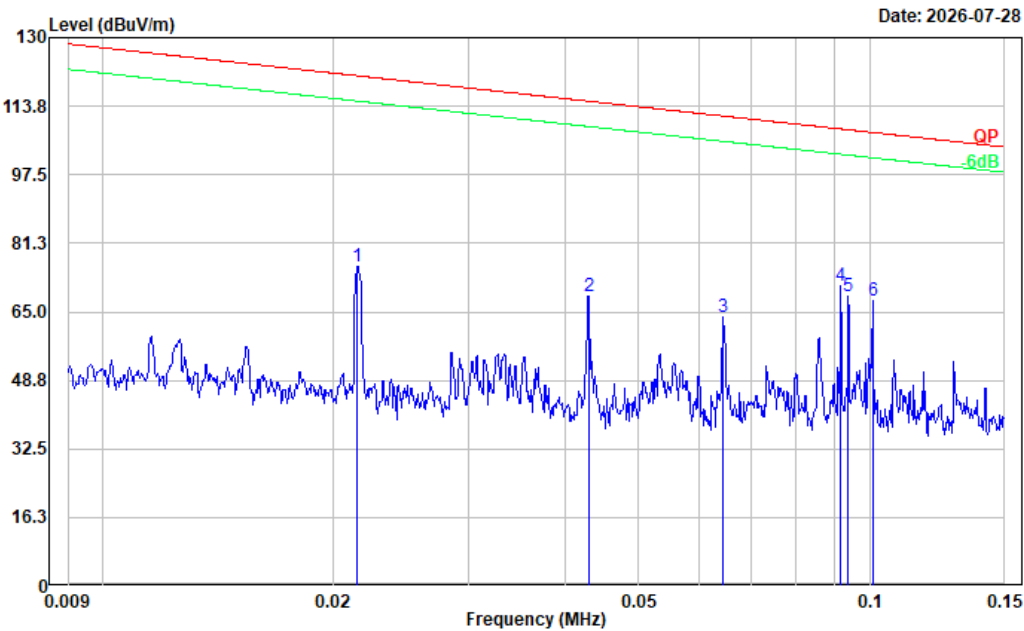
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.022	43.00	27.79	70.79	120.94	50.15	Peak
2	0.043	41.91	20.84	62.75	114.93	52.18	Peak
3	0.065	40.95	17.36	58.31	111.36	53.05	Peak
4	0.086	38.72	14.72	53.44	108.90	55.46	Peak
5	0.095	41.53	13.98	55.51	108.07	52.56	Peak
6	0.097	45.50	13.77	59.27	107.85	48.58	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Perpendicular
Note: Transimmitting 5.8G Low Channel 5734MHz



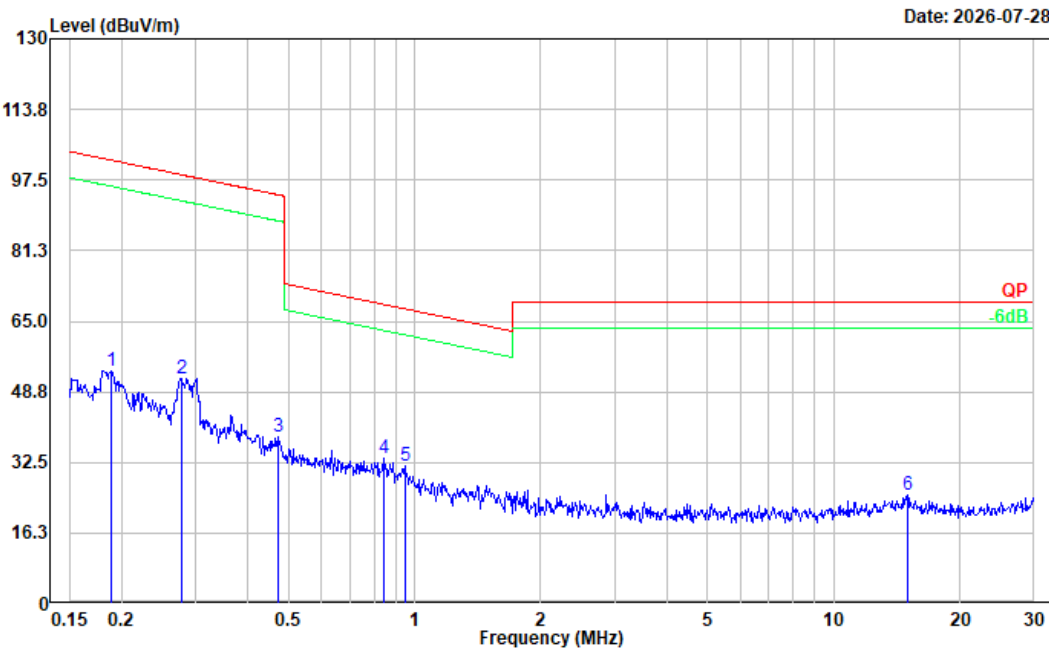
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.152	41.63	11.19	52.82	103.99	51.17	Peak
2	0.255	41.24	6.50	47.74	99.48	51.74	Peak
3	0.513	35.90	-0.19	35.71	73.40	37.69	Peak
4	0.792	36.07	-3.41	32.66	69.54	36.88	Peak
5	1.480	34.59	-6.93	27.66	64.00	36.34	Peak
6	11.377	32.05	-9.07	22.98	69.54	46.56	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Ground-Parallel
Note: Tramsimitting 5.8G Low Channel 5734MHz



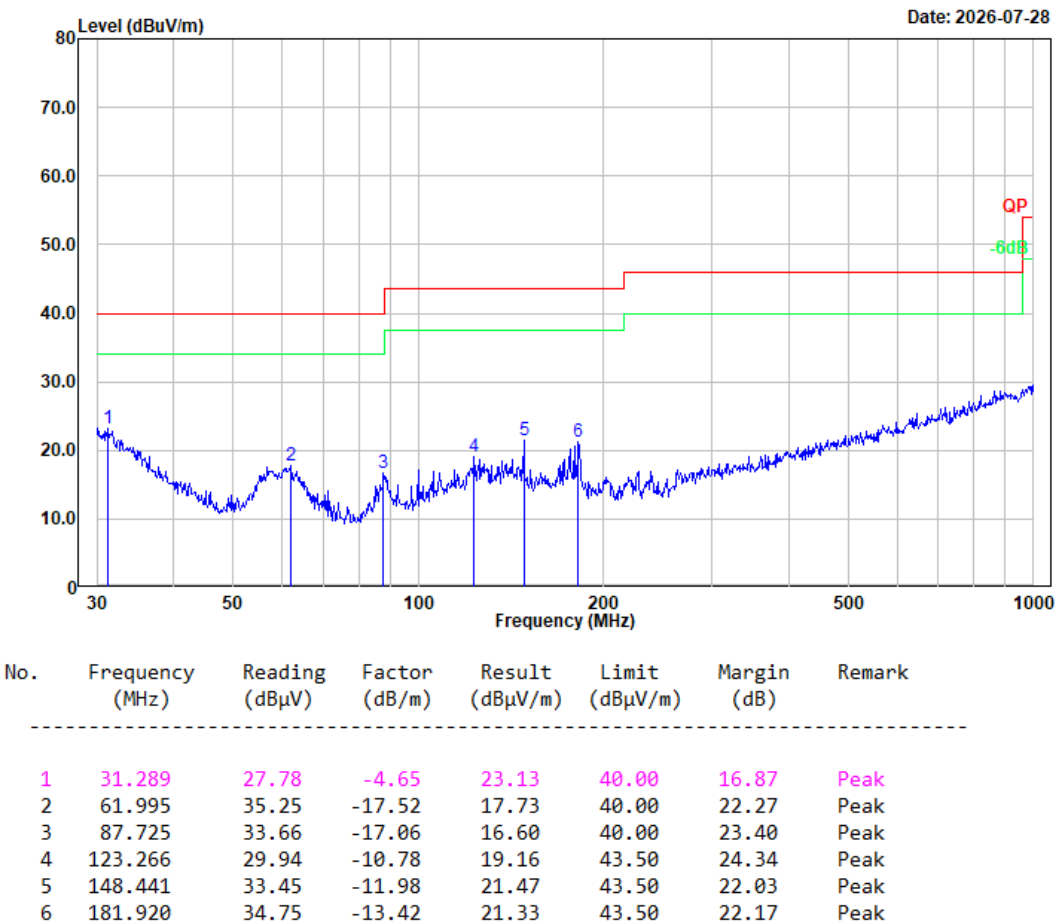
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.021	46.86	28.94	75.80	120.97	45.17	Peak
2	0.043	46.40	22.14	68.54	114.93	46.39	Peak
3	0.064	45.33	18.51	63.84	111.41	47.57	Peak
4	0.092	55.99	15.13	71.12	108.36	37.24	Peak
5	0.094	53.84	14.93	68.77	108.16	39.39	Peak
6	0.101	53.27	14.30	67.57	107.53	39.96	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Ground-Parallel
Note: Transimmitting 5.8G Low Channel 5734MHz

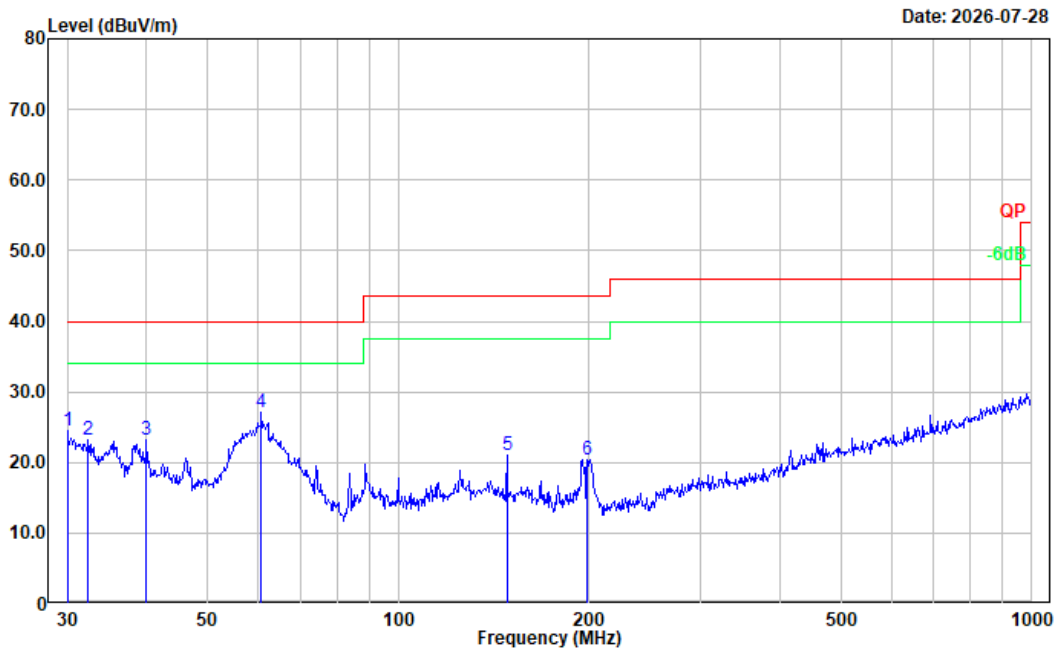


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.189	43.35	10.18	53.53	102.06	48.53	Peak
2	0.277	45.76	6.09	51.85	98.74	46.89	Peak
3	0.471	37.10	1.47	38.57	94.14	55.57	Peak
4	0.844	36.33	-2.87	33.46	68.98	35.52	Peak
5	0.948	35.51	-3.93	31.58	67.95	36.37	Peak
6	14.986	32.74	-7.66	25.08	69.54	44.46	Peak

Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: horizontal
Note: Transimitting 5.8G Low Channel 5734MHz



Project No.: 2603V32099E-EM
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transimitting 5.8G Low Channel 5734MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	28.30	-3.82	24.48	40.00	15.52	Peak
2	32.406	28.73	-5.53	23.20	40.00	16.80	Peak
3	39.994	34.28	-11.06	23.22	40.00	16.78	Peak
4	60.704	44.82	-17.64	27.18	40.00	12.82	Peak
5	148.441	32.95	-11.98	20.97	43.50	22.53	Peak
6	198.588	32.86	-12.46	20.40	43.50	23.10	Peak

4.2.2 1 GHz – 40 GHz

Sample Number	3PHB-1	Test Date:	2026/7/27-2026/7/28
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-24.9	Relative Humidity: (%)	62-64	ATM Pressure: (kPa)	99.7-100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/5/24	2027/5/23
PASTERNAK	Horn Antenna	PE9850/2F-20	72001	2024/5/24	2027/5/23
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2025/8/4	2026/8/3
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2025/8/4	2026/8/3

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

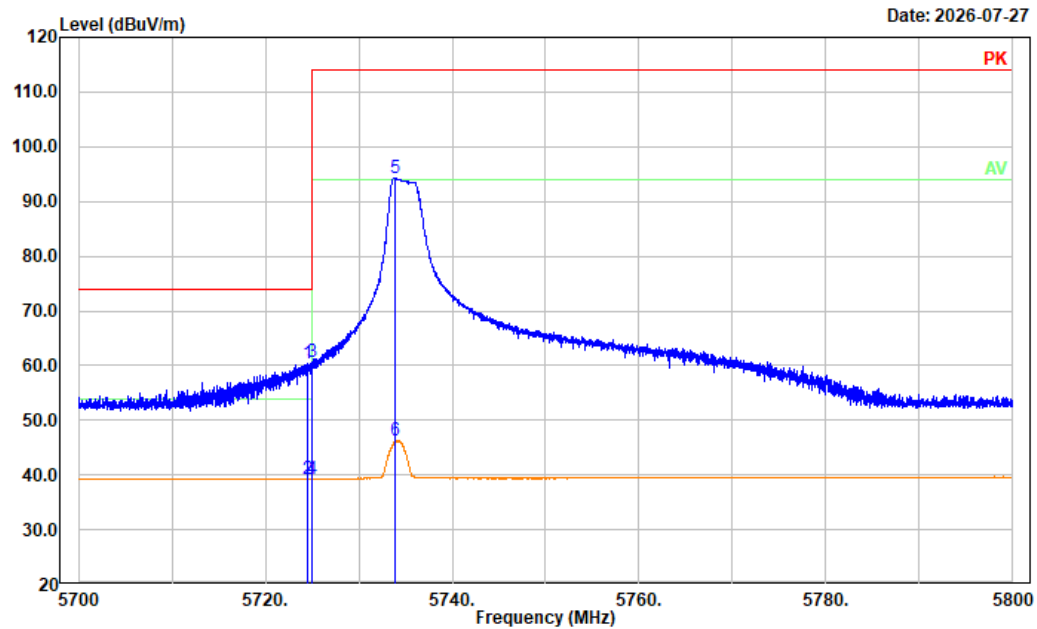
Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 5734 MHz							
11468.000	38.48	PK	H	13.90	52.38	74.00	21.62
11468.000	24.58	AV	H	13.90	38.48	54.00	15.52
11468.000	37.55	PK	V	13.90	51.45	74.00	22.55
11468.000	24.57	AV	V	13.90	38.47	54.00	15.53
17202.000	39.07	PK	H	16.75	55.82	74.00	18.18
17202.000	26.25	AV	H	16.75	43.00	54.00	11.00
17202.000	38.31	PK	V	16.75	55.06	74.00	18.94
17202.000	26.25	AV	V	16.75	43.00	54.00	11.00
Middle Channel: 5792 MHz							
11584.000	37.99	PK	H	14.40	52.39	74.00	21.61
11584.000	25.14	AV	H	14.40	39.54	54.00	14.46
11584.000	38.69	PK	V	14.40	53.09	74.00	20.91
11584.000	25.27	AV	V	14.40	39.67	54.00	14.33
17376.000	38.80	PK	H	18.18	56.98	74.00	17.02
17376.000	26.04	AV	H	18.18	44.22	54.00	9.78
17376.000	39.07	PK	V	18.18	57.25	74.00	16.75
17376.000	26.03	AV	V	18.18	44.21	54.00	9.79
High Channel: 5862 MHz							
11724.000	39.20	PK	H	14.54	53.74	74.00	20.26
11724.000	25.49	AV	H	14.54	40.03	54.00	13.97
11724.000	39.66	PK	V	14.54	54.20	74.00	19.80
11724.000	25.52	AV	V	14.54	40.06	54.00	13.94
17586.000	39.83	PK	H	20.10	59.93	74.00	14.07
17586.000	26.65	AV	H	20.10	46.75	54.00	7.25
17586.000	39.76	PK	V	20.10	59.86	74.00	14.14
17586.000	26.64	AV	V	20.10	46.74	54.00	7.26

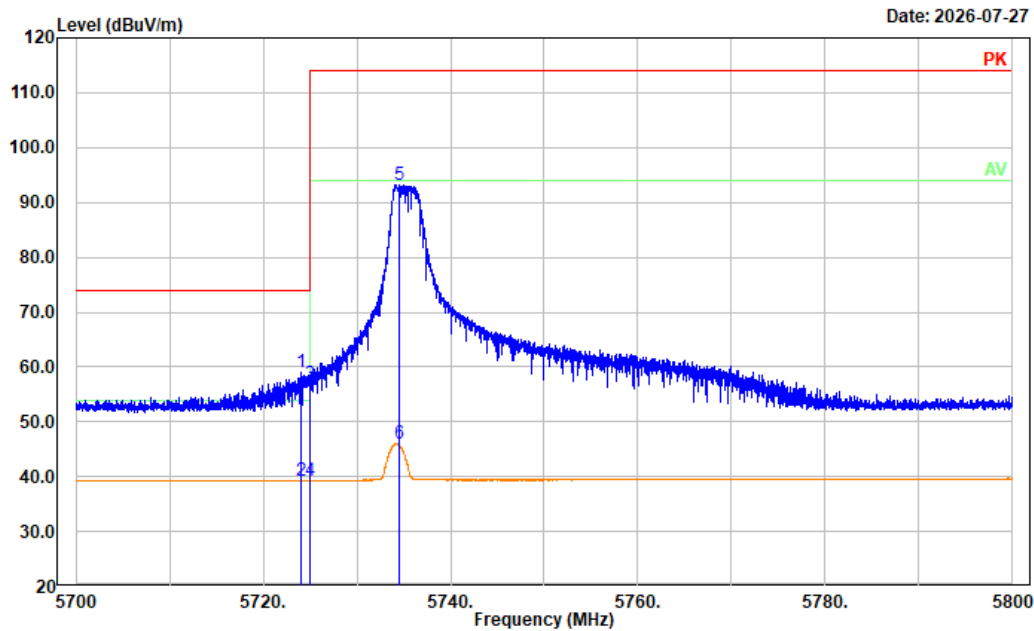
Band Edge and Fundamental Test Plots:

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Horizontal
Note: 5.8G Transmitting Low Channel 5734 MHz



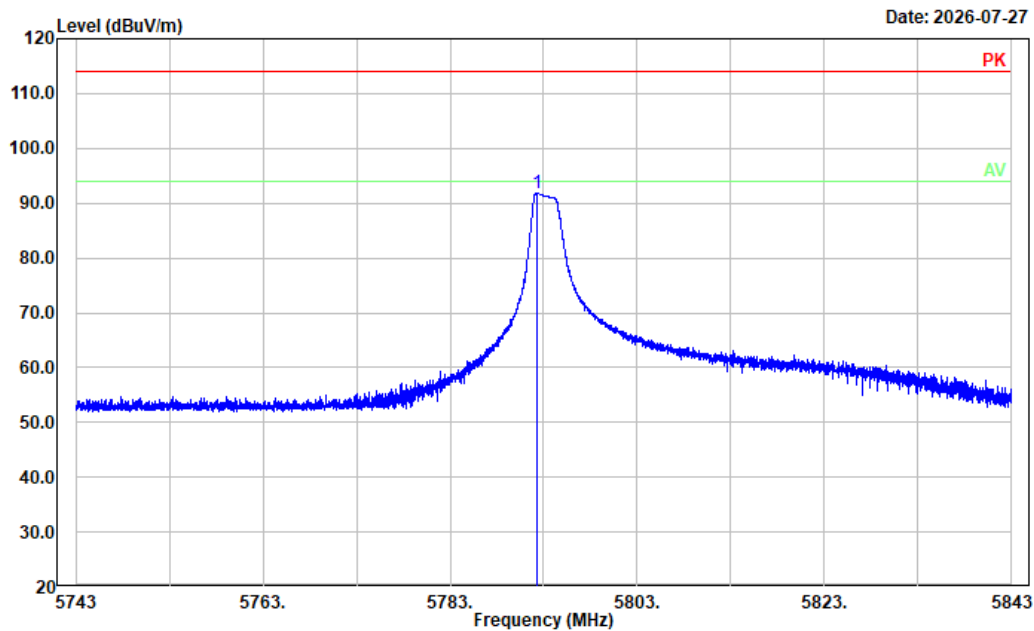
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5724.520	53.55	6.83	60.38	74.00	13.62	Peak
2	5724.520	32.31	6.83	39.14	54.00	14.86	Average
3	5725.000	53.85	6.83	60.68	74.00	13.32	Peak
4	5725.000	32.45	6.83	39.28	54.00	14.72	Average
5	5733.860	87.54	6.84	94.38	113.98	19.60	Peak
6	5733.860	39.45	6.84	46.29	93.98	47.69	Average

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Vertical
Note: 5.8G Transmitting Low Channel 5734 MHz



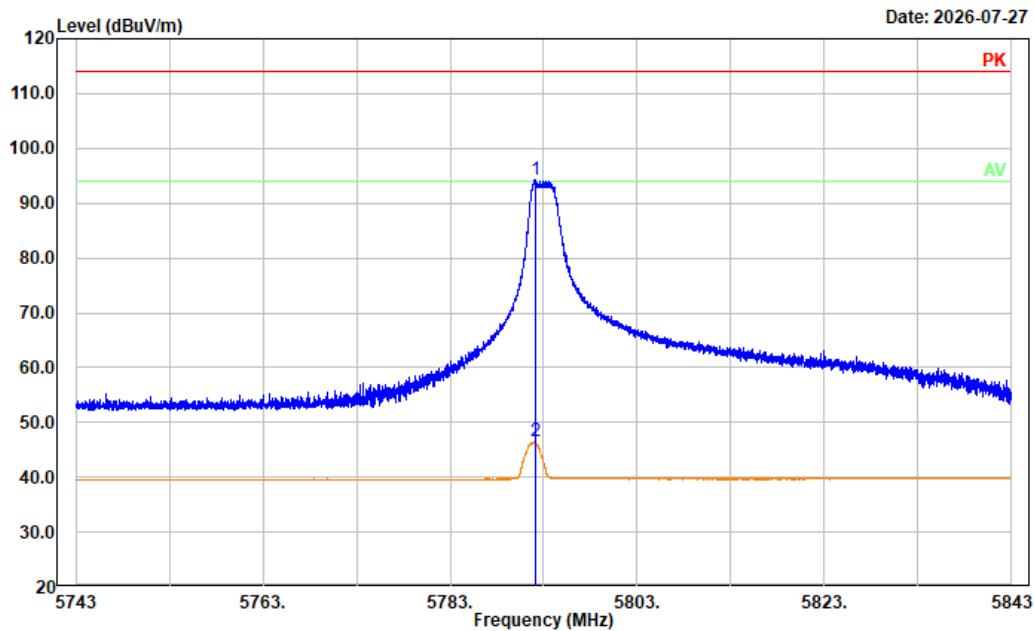
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5724.100	52.18	6.83	59.01	74.00	14.99	Peak
2	5724.100	32.38	6.83	39.21	54.00	14.79	Average
3	5725.000	50.12	6.83	56.95	74.00	17.05	Peak
4	5725.000	32.38	6.83	39.21	54.00	14.79	Average
5	5734.480	86.33	6.85	93.18	113.98	20.80	Peak
6	5734.480	39.16	6.85	46.01	93.98	47.97	Average

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz;
Polarization: Horizontal
Note: 5.8G Transmitting Middle Channel 5792 MHz



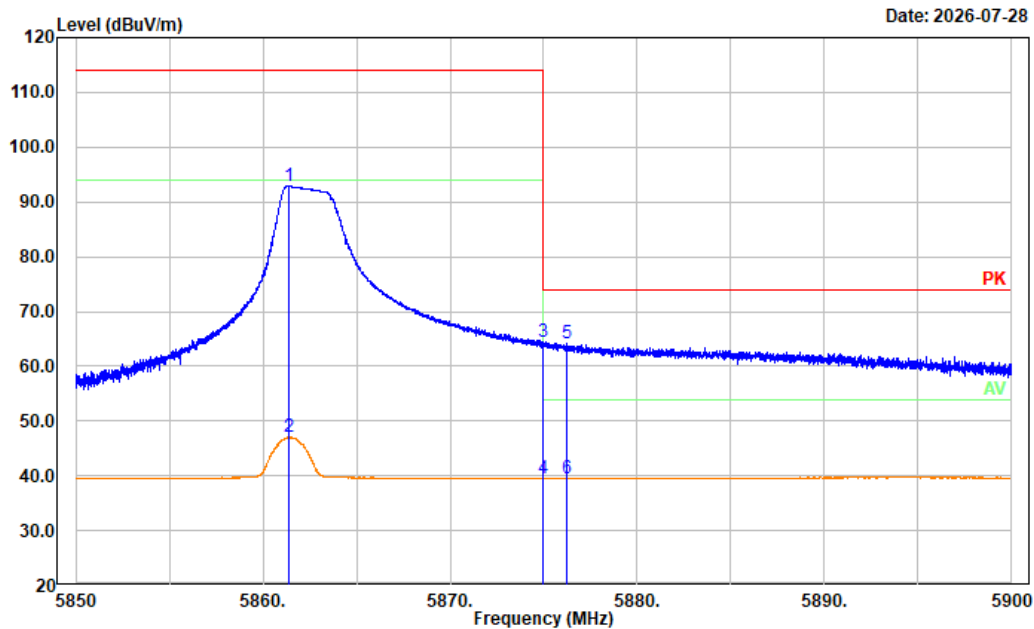
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5792.220	85.07	6.85	91.92	113.98	22.06	Peak

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Vertical
Note: 5.8G Transmitting Middle Channel 5792 MHz



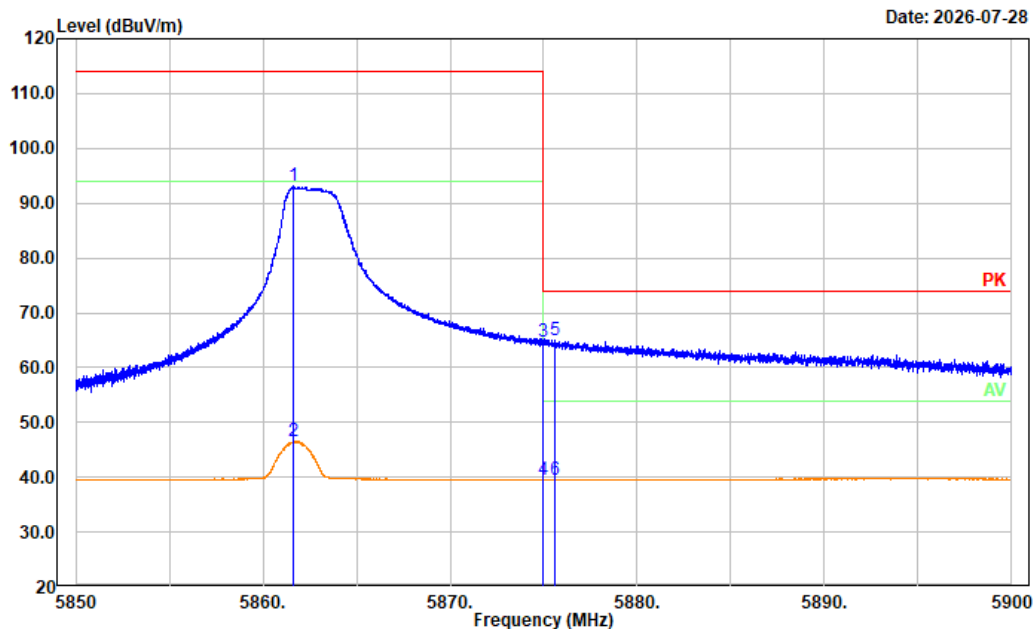
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5792.060	87.33	6.85	94.18	113.98	19.80	Peak
2	5792.060	39.61	6.85	46.46	93.98	47.52	Average

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Horizontal
Note: 5.8G Transmitting High Channel 5862 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5861.380	85.91	6.96	92.87	113.98	21.11	Peak
2	5861.380	40.09	6.96	47.05	93.98	46.93	Average
3	5875.000	57.35	7.02	64.37	74.00	9.63	Peak
4	5875.000	32.39	7.02	39.41	54.00	14.59	Average
5	5876.270	57.18	7.02	64.20	74.00	9.80	Peak
6	5876.270	32.52	7.02	39.54	54.00	14.46	Average

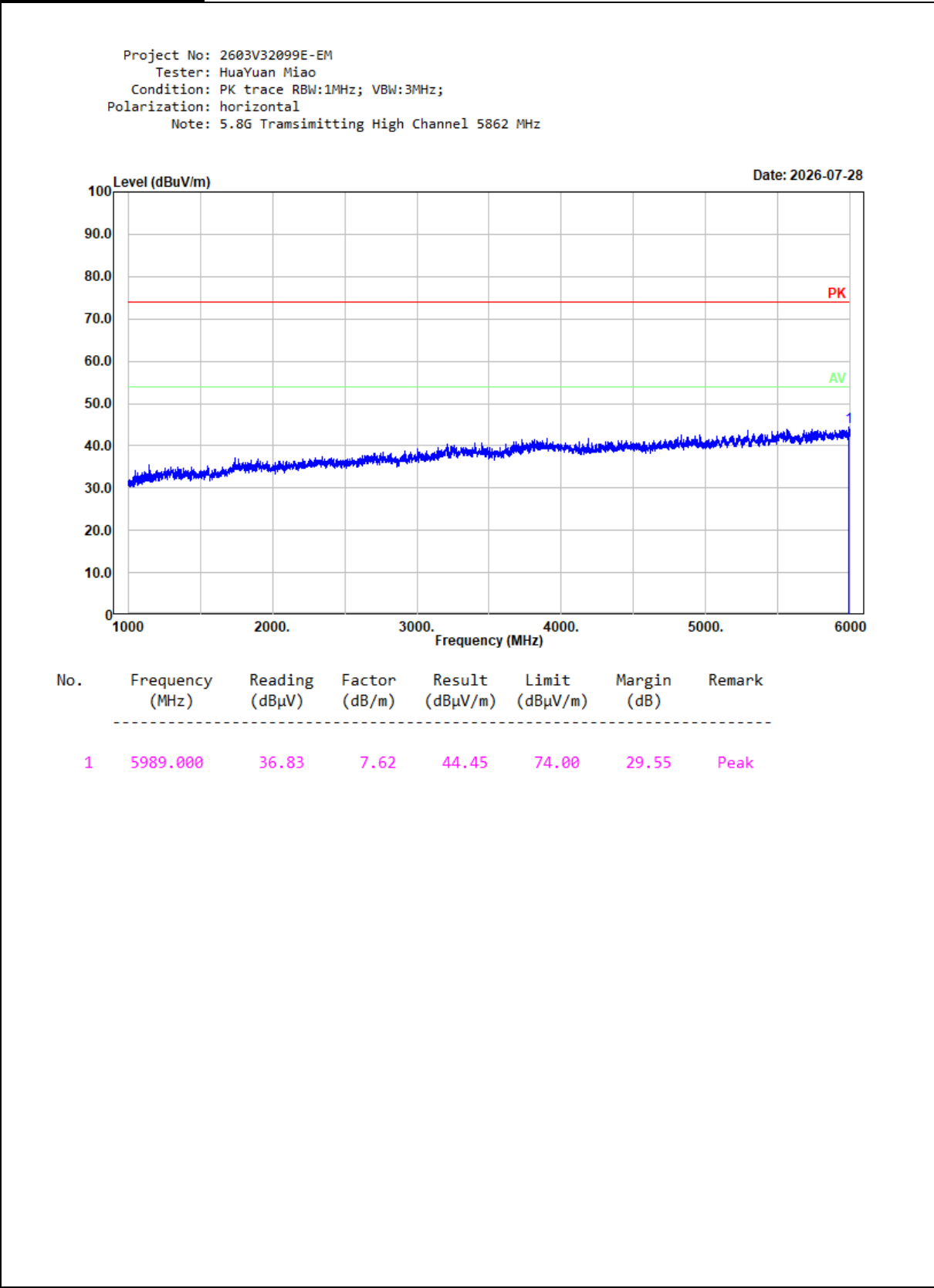
Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Vertical
Note: 5.8G Transmitting High Channel 5862 MHz



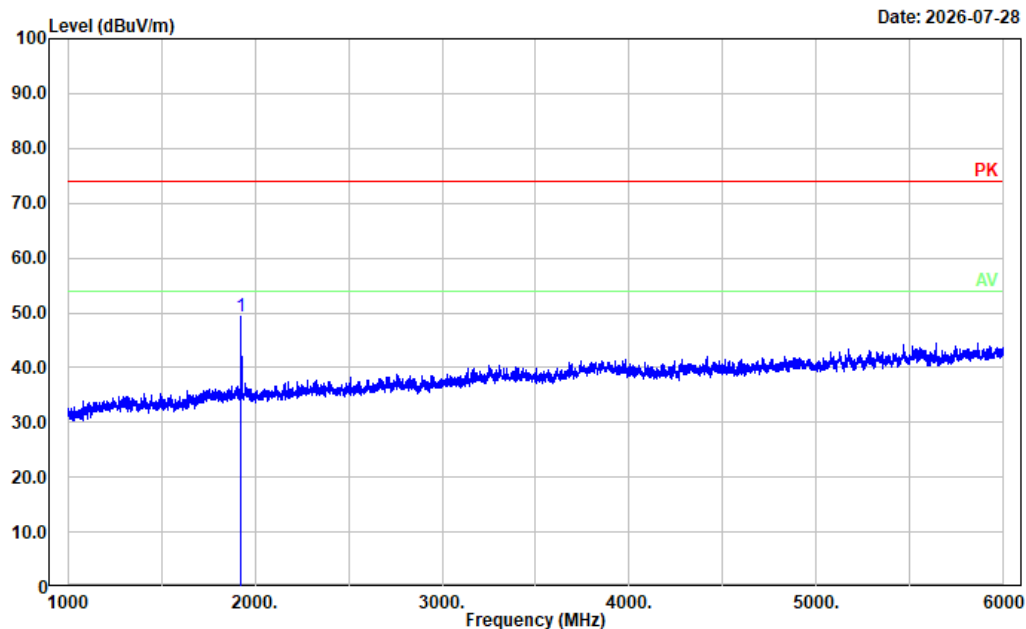
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5861.650	86.19	6.96	93.15	113.98	20.83	Peak
2	5861.650	39.64	6.96	46.60	93.98	47.38	Average
3	5875.000	57.77	7.02	64.79	74.00	9.21	Peak
4	5875.000	32.49	7.02	39.51	54.00	14.49	Average
5	5875.580	57.94	7.02	64.96	74.00	9.04	Peak
6	5875.580	32.45	7.02	39.47	54.00	14.53	Average

Worst radiation spurious emissions margin test plots

Test plots for 1G~18G:

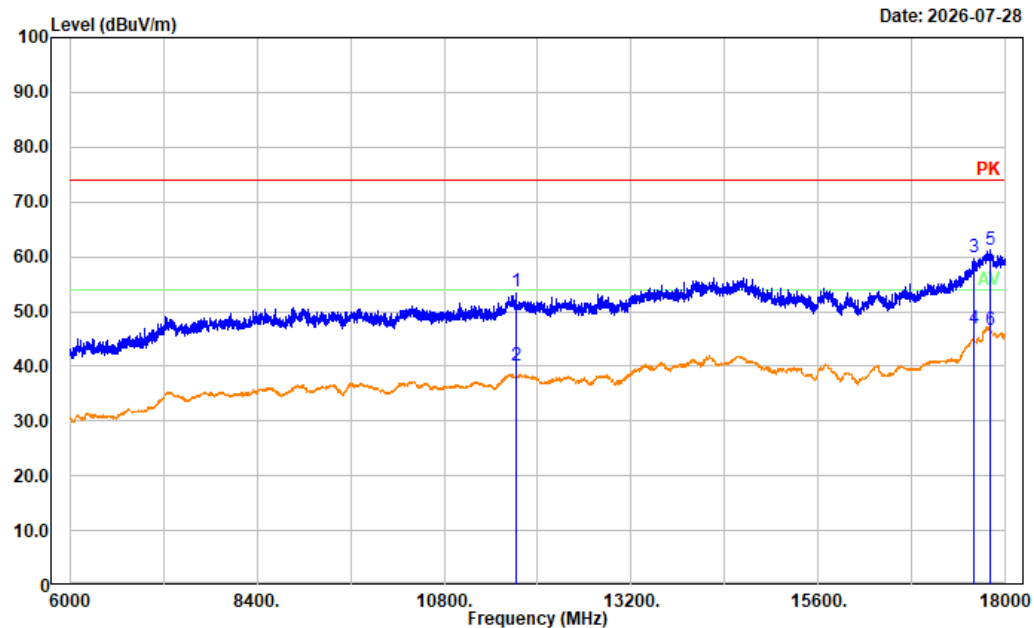


Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz;
Polarization: vertical
Note: 5.8G Transmitting High Channel 5862 MHz



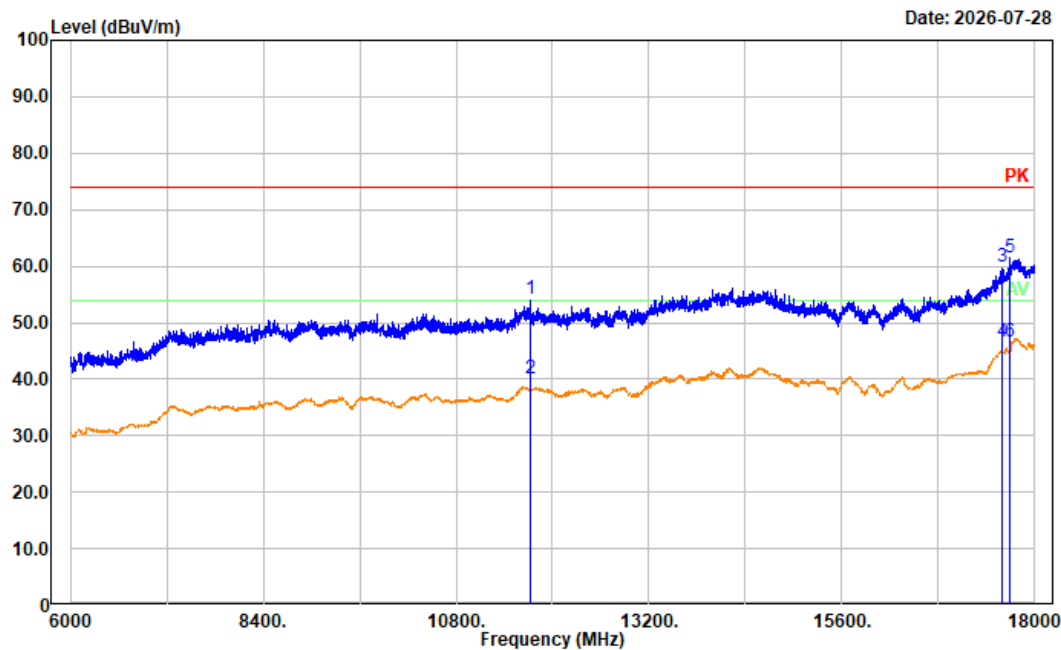
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	1928.000	52.50	-3.07	49.43	74.00	24.57	Peak

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: horizontal
Note: 5.8G Transmitting High Channel 5862 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	11724.000	39.20	14.54	53.74	74.00	20.26	Peak
2	11724.000	25.49	14.54	40.03	54.00	13.97	Average
3	17586.000	39.83	20.10	59.93	74.00	14.07	Peak
4	17586.000	26.65	20.10	46.75	54.00	7.25	Average
5	17805.600	39.98	21.36	61.34	74.00	12.66	Peak
6	17805.600	25.22	21.36	46.58	54.00	7.42	Average

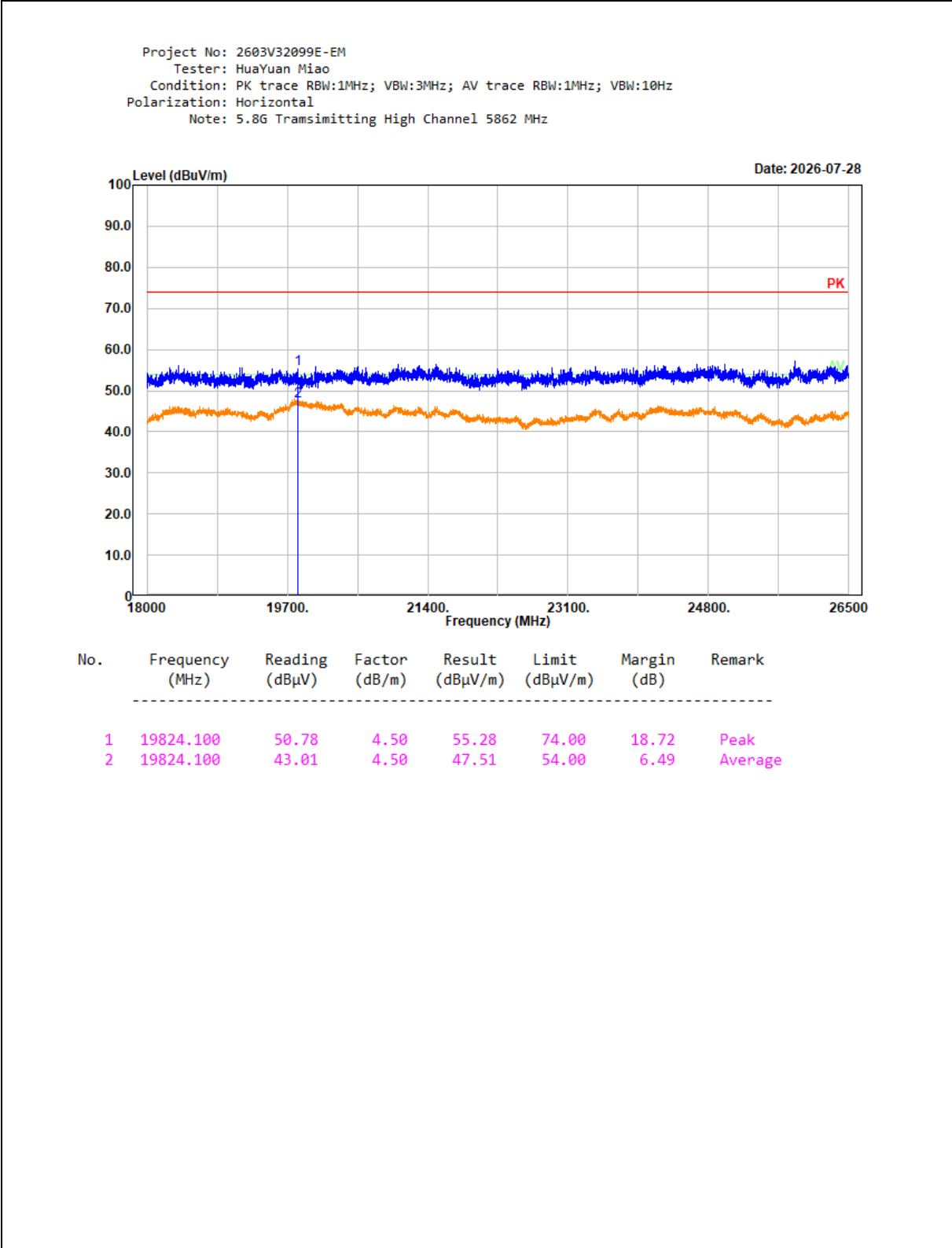
Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: vertical
Note: 5.8G Tramsimitting High Channel 5862 MHz



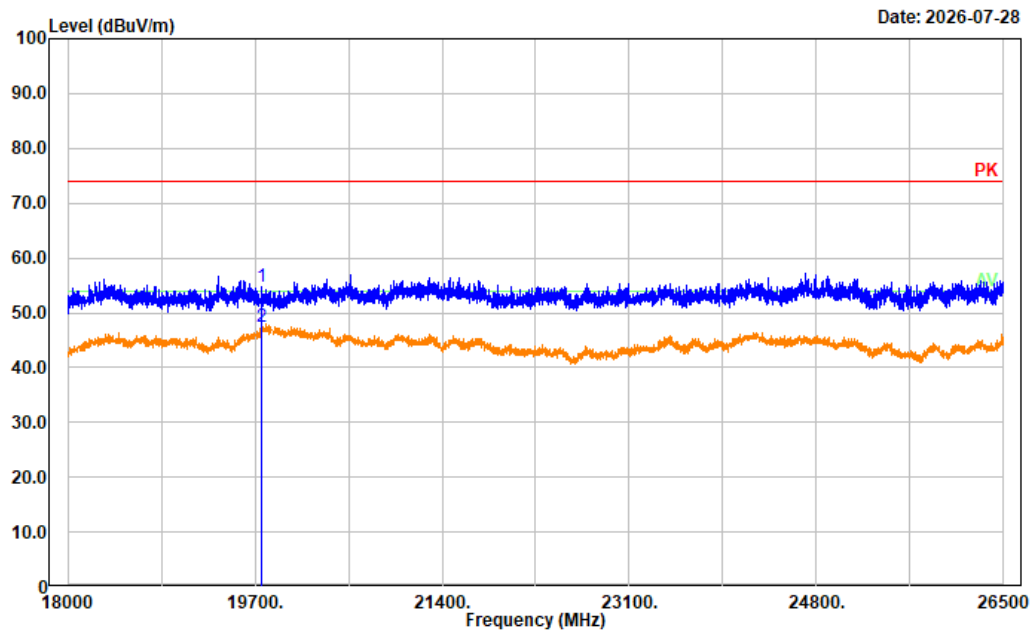
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	11724.000	39.66	14.54	54.20	74.00	19.80	Peak
2	11724.000	25.52	14.54	40.06	54.00	13.94	Average
3	17586.000	39.76	20.10	59.86	74.00	14.14	Peak
4	17586.000	26.64	20.10	46.74	54.00	7.26	Average
5	17690.400	40.47	20.94	61.41	74.00	12.59	Peak
6	17690.400	25.77	20.94	46.71	54.00	7.29	Average

Test plots for 18GHz ~ 40GHz:

Note: The test was performed under the worst-case emission channel (high channel 5862MHz) identified in the 1-18 GHz radiated spurious emissions test.

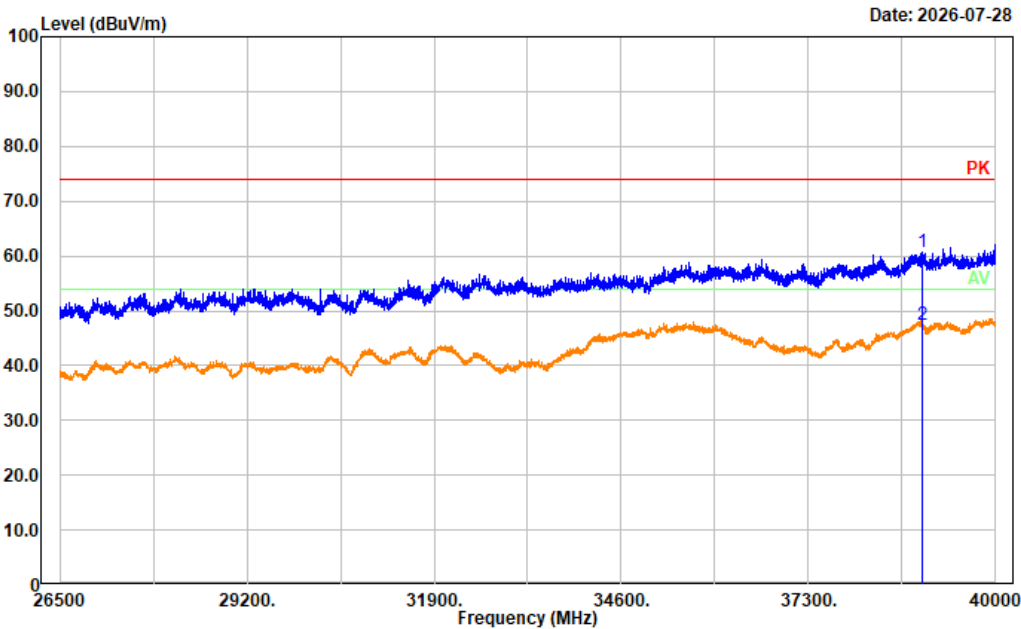


Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Vertical
Note: 5.8G Transmitting High Channel 5862 MHz



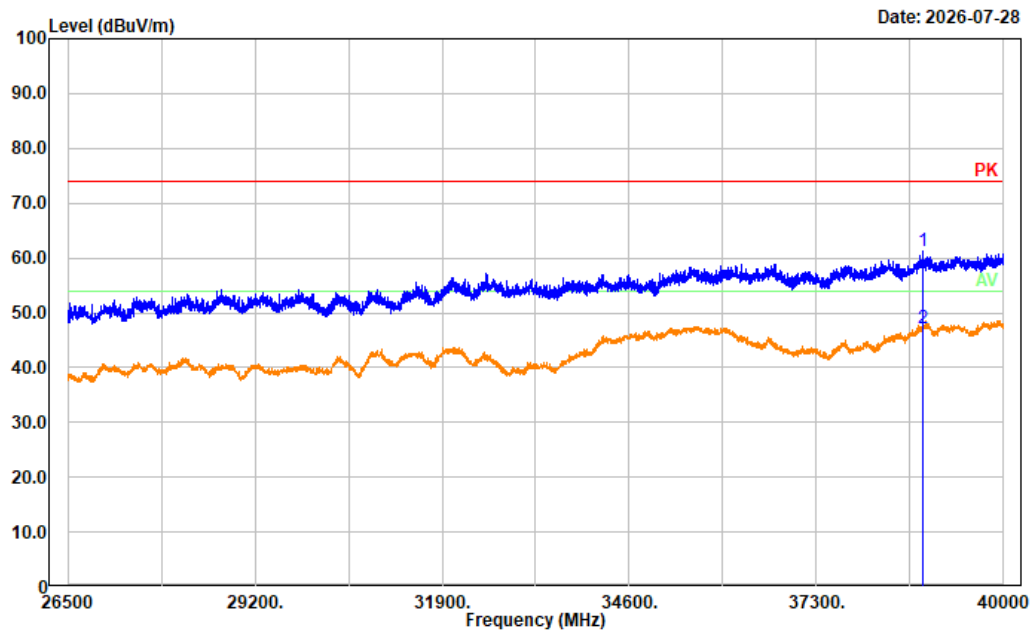
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	19756.100	47.90	6.72	54.62	74.00	19.38	Peak
2	19756.100	40.57	6.72	47.29	54.00	6.71	Average

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Horizontal
Note: 5.8G Transmitting High Channel 5862 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	38936.200	51.01	9.62	60.63	74.00	13.37	Peak
2	38936.200	37.90	9.62	47.52	54.00	6.48	Average

Project No: 2603V32099E-EM
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:10Hz
Polarization: Vertical
Note: 5.8G Transmitting High Channel 5862 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	38828.200	52.55	8.64	61.19	74.00	12.81	Peak
2	38828.200	38.59	8.64	47.23	54.00	6.77	Average

4.3 20 dB Emission Bandwidth

Sample Number	3PHB-1	Test Date:	2026/7/27-2026/7/28
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-24.9	Relative Humidity: (%)	62-64	ATM Pressure: (kPa)	99.7-100.2
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Test Equipment List and Details:

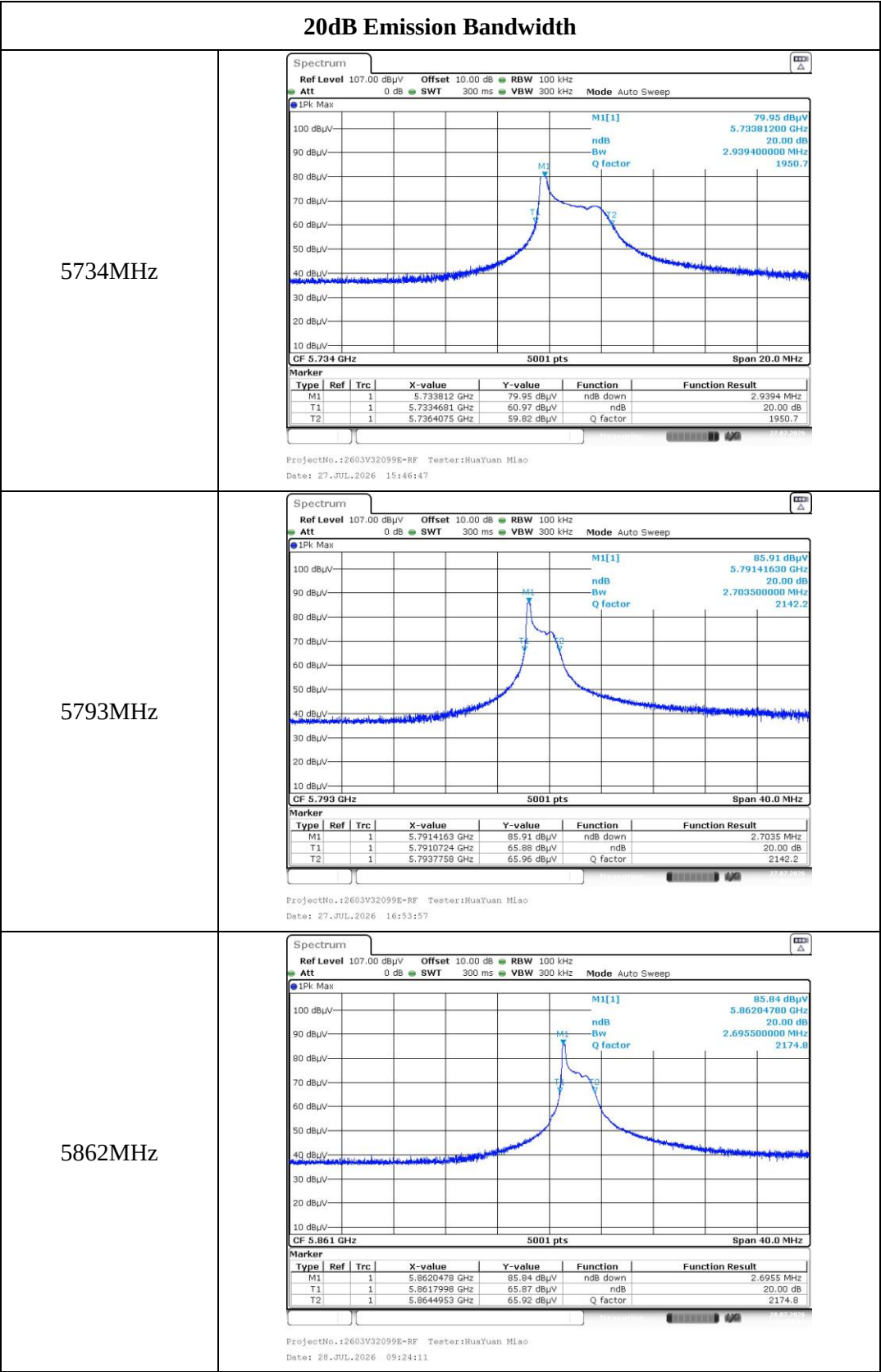
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Result
5734	2.939	Pass
5792	2.704	Pass
5862	2.696	Pass

Note: the 20 dB bandwidth of the emission is contained within the operation frequency band (5725~5875MHz). Please refer to the below plots.



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §1.1307(b)(3)(i)(A)

a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

5.2 Procedure

According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2- 1-mW Test Exemption:

Per §1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

5.3 Measurement Result

Frequency (MHz)	Maximum Power		1-mW Test Exemption
	dBm	mW	
5734-5862	-0.82	0.828	Compliant

Note:

1. This device maximum E-Field level is 94.38 dB μ V/m at 3m, so the EIRP power is -0.82 dBm, Antenna Gain is 3 dBi, so the Maximum Conduct Power is -3.82dBm.
2. EIRP (dBm) = Field Strength of Fundamental(dBuV/m)-95.2 (dB),
Maximum Conduct Power (dBm)= EIRP (dBm)- Antenna Gain(dBi)

Result: Compliant. RF Exposure is exemption.

6. EUT PHOTOGRAPHS

Please refer to the attachment 2603V32099E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603V32099E-RF-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603V32099E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====