



Test Report



No.: AJT250728026E-1

Applicant Name: KNP LLC
Applicant Address: 7601 NORTH FEDERAL HIGHWAY, SUITE 215A, BOCA RATON, FL 33487 USA
Manufacturer Name: KNP LLC
Manufacturer Address: 7601 NORTH FEDERAL HIGHWAY, SUITE 215A, BOCA RATON, FL 33487 USA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description: RC CAR
Model No.: 5004106
FCC ID: 2A28T-27KNP5004106
Sample Received Date: July 28, 2025
Testing Completed Date: July 30, 2025

Tests conducted: For compliance with application, refer to attached page(s) for details.

Test Requested:	Conclusion
FCC part 15, Subpart C, Section 15. 227 & ANSI C63,10-2013	PASS

Tested by:

Glory

Reviewed by:

Fly Liang

Approved by:

Position: Technical Supervisor
Date: 2025-08-01



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1 Test Standards

The tests were performed according to following standards:
FCC part 15, Subpart C, Section 15. 227: Operation within the band 26.96-27.28 MHz
ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

2 Summary

2.1 General Remarks

Date of receipt of test sample	July 28, 2025
Testing commenced on	July 28, 2025 ---- July 30, 2025
Testing concluded on	July 30, 2025

2.2 Final Assessment

Test Content:	Assessment
The RF requirements pertaining to the technical standards and tested operation modes are	Fulfilled
The equipment under test	Fulfilled the RF requirements

3 Equipment Under Test

3.1 Short Description of the Equipment Under Test (EUT)

EUT Name	RC CAR
Model No.	5004106
FCC ID	2A28T-27KNP5004106
Power Supply Voltage	DC 3.0V(AA*2)
Operating Mode	TX mode
Operation Frequency	27.145MHz
Number of Channel	1
Modulation	GFSK
Antenna Type	Telescopic Antenna
Antenna Gain	0dBi
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

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3.2 EUT Configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

Not Applicable



3.3 Description of Test Modes

NO.	Frequency	Test Mode Description
1	27.145MHz	TX mode
Note: 1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report. 2. For radiated emission, 3axis were chosen for testing for each applicable mode.		

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4 Test Environment

4.1 Address of the Test Laboratory

Test Laboratory:	AJT Testing Services Limited
Test Site:	1-2/F., NO.1, WENHUA SOUTH ROAD, CHENGHUA INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA
Tel:	86-754-85860999
Fax:	86-754-86984098

4.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:	
Temperature	15~35°C
Humidity	30~75% RH

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4.3 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. Furthermore, component and process variability of devices are similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Measurement Uncertainty	
Conducted Emission (CE)	$\pm 2.14\text{dB}$
Radiated Emission below 1GHz	$\pm 4.44\text{dB}$
Radiated Emission above 1GHz	$\pm 5.26\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

4.4 Test Types and Results

Standard: FCC part 15, Subpart C			
Standard Section	Test Type	Result	Remark
§15.207	Conducted Emission (CE)	N/A	EUT is powered by battery
§15.227 & §15.209	Radiated Emission (RE)	Pass	Compliant
§15.215	20dB Bandwidth	Pass	Compliant
§15.203	Antenna Requirement	Pass	No antenna connector is used

Note: The conducted limits are not required for devices which only employ battery power for operation.

5 Test Conditions and Results

5.1 Radiated Emission (RE)

For test instruments and accessories used see section 6

5.1.1 Test Procedures

The basic test procedure was in accordance with ANSI C63.10 (section 6).

- (1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. (Below 1000MHz)
- (2) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. (Below 30MHz)
- (3) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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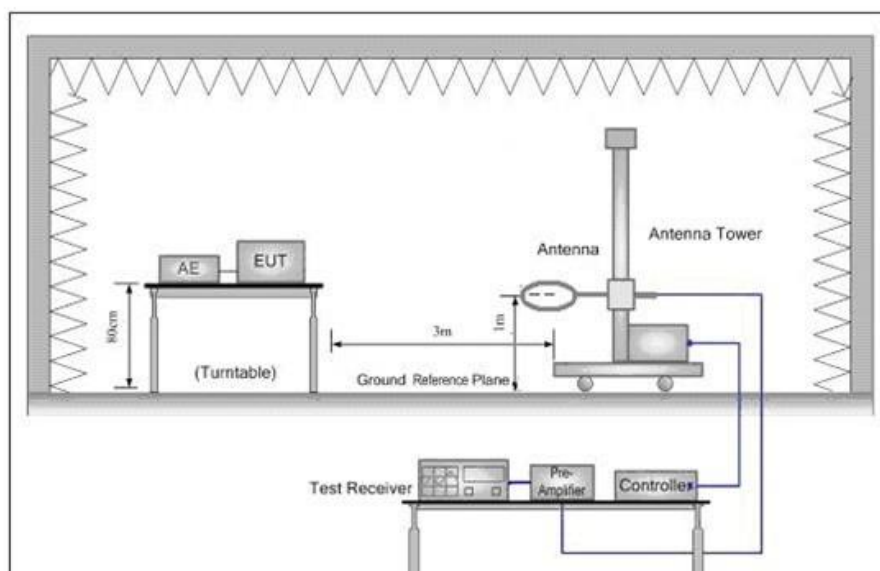
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- (4) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- (5) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- (6) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- (7) During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X,Y & Z) and considered typical configuration to obtain worst position Y, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level.
- (8) For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Note:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. Emission level (dBμV/m) = Raw value (dBμV) + Correction Factor (dB/m)
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. Margin value = Emission level – Limit value.
5. Fundamental AV value = PK Emission + AV Factor

5.1.2 Test Setup



Below 30MHz

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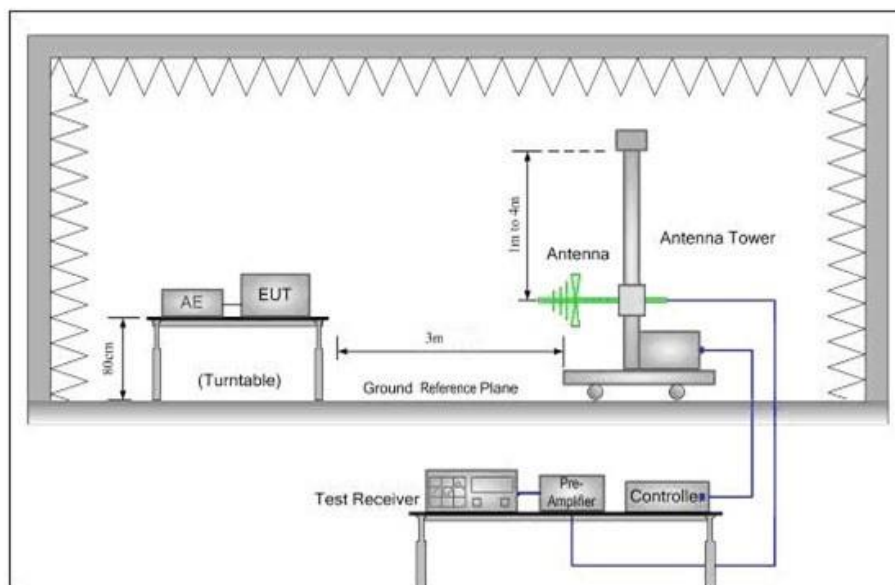
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30MHz-1GHz

5.1.3 Test Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15. 227(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Range of Fundamental (MHz)	Field Strength of Fundamental Emission (Peak) (μV/m)	Field Strength of Fundamental Emission (average) (μV/m)
26.96 ~ 27.28	100,000(100dBμV/m)	10,000(80dBμV/m)

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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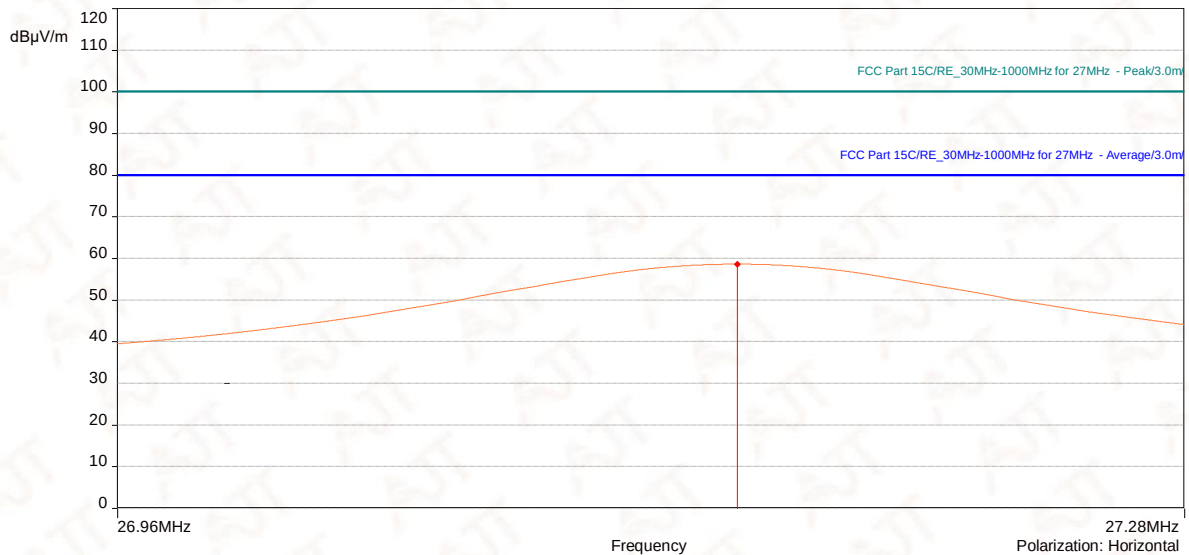
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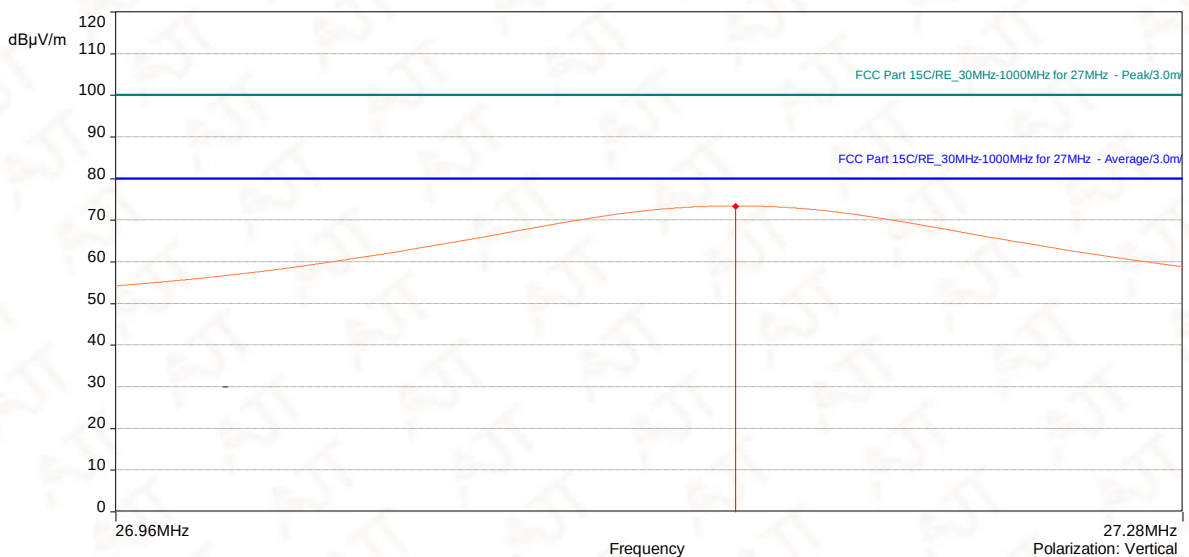
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5.1.4 Test Results

5.1.4.1 Field Strength of Fundamental



Horizontal



Vertical

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Frequency (MHz)	Reading Level (dBμV/m)	Emission Level (dBμV/m)	Limit. (dBμV/m)	Margin (dB)	Correction Factor(dB)	Polarization
27.145344 (PK)	/	58.59	100.00	-41.41	-9.57	Horizontal
27.145344 (PK)	/	73.40	100.00	-26.60	-9.57	Vertical
27.145344 (AV)	/	54.33	80.00	-25.67	-4.26	Horizontal
27.145376 (AV)	/	69.14	80.00	-10.86	-4.26	Vertical
Note: 1.Emission Level = Read Level + Correction Factor 2.Correction Factor = Antenna Factor + Cable Loss - Preamplifier Gain 3.Margin = Emission Level -Limit Value 4. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (61.26%) = -4.26dB, please see 5.1.4.2.						

5.1.4.2 Calculation of Average Factor

The duration of one cycle = 18.51ms

Effective period of the cycle = $0.51 \times 10 + 1.56 \times 4 = 11.34\text{ms}$

Duty Cycle = $11.34\text{ms} / 18.51\text{ms} = 61.26\%$

Averaging factor in dB = $20 \log (\text{duty cycle}) = 20 \log (61.26\%) = -4.26\text{dB}$

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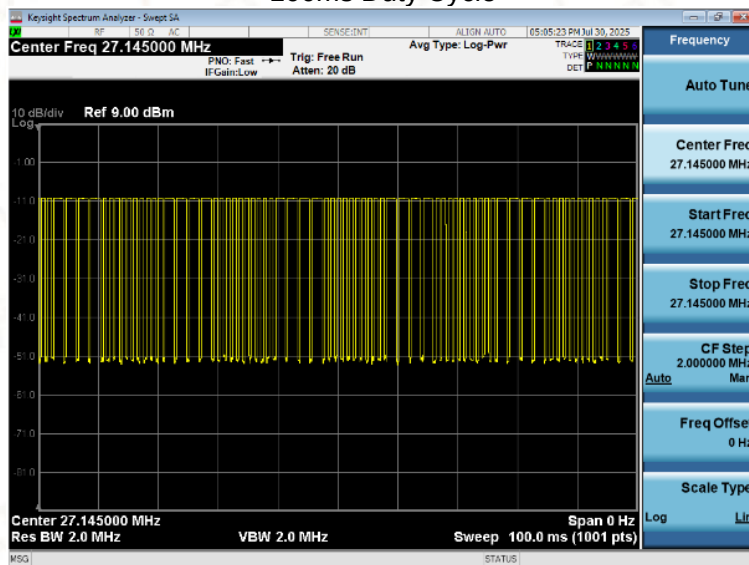


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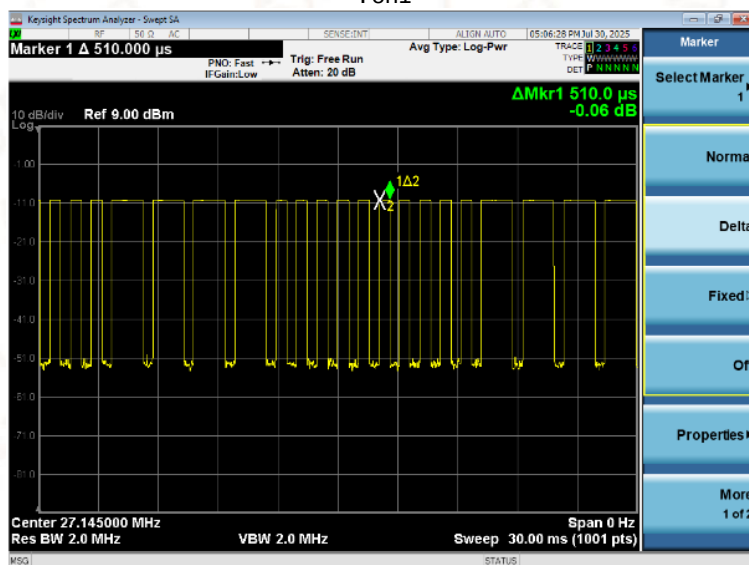


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100ms Duty Cycle



Ton1



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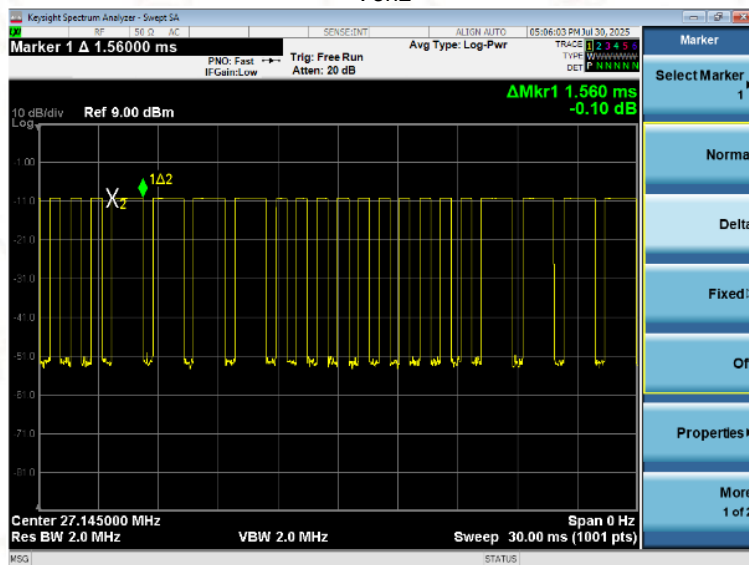


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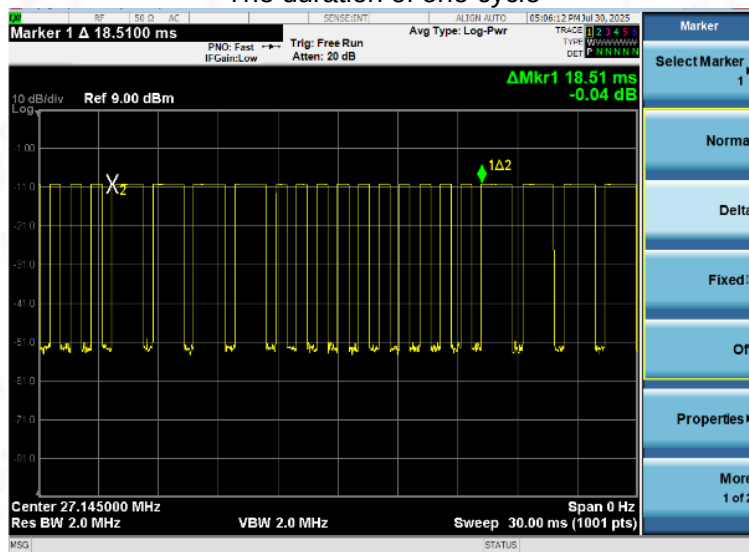


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Ton2



The duration of one cycle



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5.1.4.3 9kHz-1GHz Radiated Emission Result

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Operation Mode	TX mode
Test Condition	Ambient Temperature: 25°C Humidity: 65% RH

Frequency (MHz)	Peak (dB μ V/m)	QP (dB μ V/m)	QP Lim. (dB μ V/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
45.52	16.64	/	40.00	-23.36	162.00	1.51	Horizontal
271.433	27.32	/	46.00	-18.68	285.00	1.51	Horizontal
379.976	21.03	/	46.00	-24.97	107.00	1.51	Horizontal
500.353	23.01	/	46.00	-22.99	0.00	1.51	Horizontal
665.641	26.62	/	46.00	-19.38	310.00	1.51	Horizontal
825.4	28.79	/	46.00	-17.21	227.00	1.51	Horizontal
54.25	20.90	/	40.00	-19.10	187.00	1.50	Vertical
217.113	22.05	/	46.00	-23.95	158.00	1.50	Vertical
244.273	26.57	/	46.00	-19.43	191.00	1.50	Vertical
271.433	32.63	/	46.00	-13.37	281.00	1.50	Vertical
380.073	23.45	/	46.00	-22.55	110.00	1.50	Vertical
434.296	25.62	/	46.00	-20.38	171.00	1.50	Vertical

1.QP is abbreviation of Quasi-Peak

2.Margin = Emission Level -Limit Value

3.The emission levels of other frequencies were more than 20dB margin against the limit

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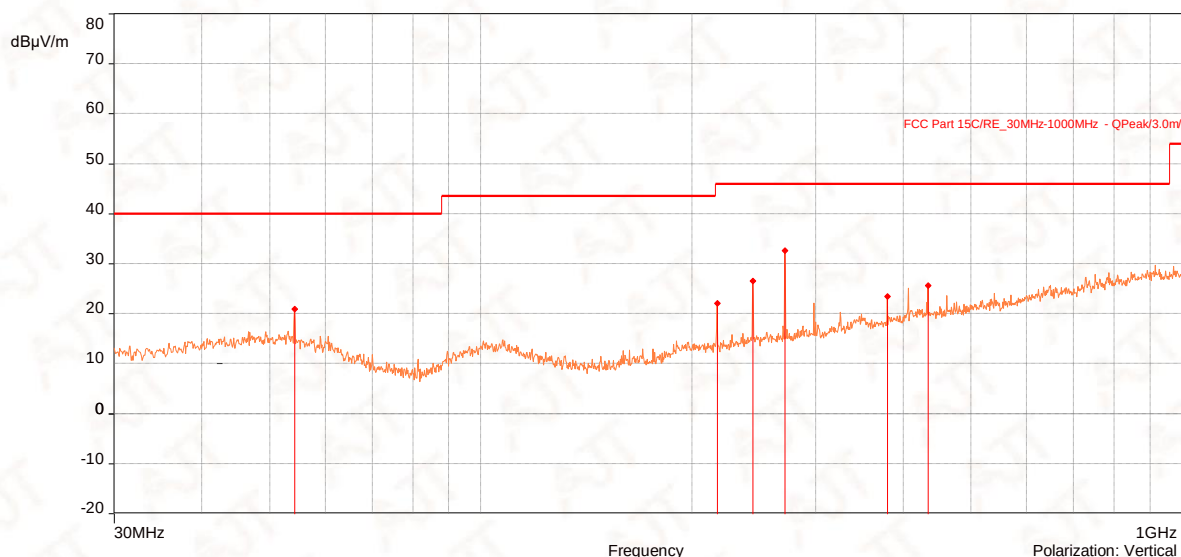
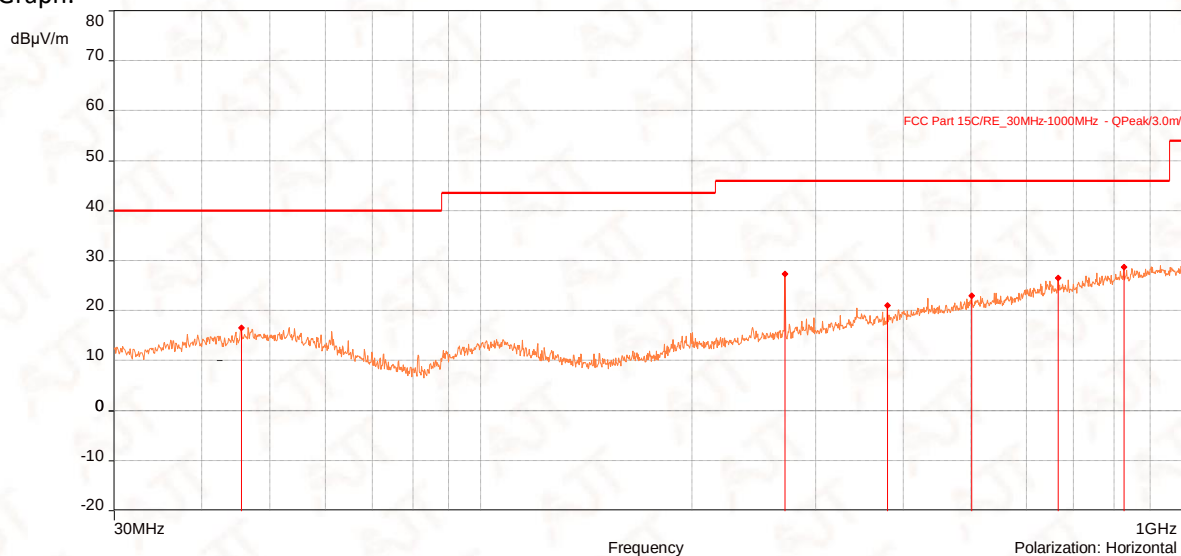


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Test Graph:



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5.2 20dB Bandwidth

For test instruments and accessories used see section 6

5.2.1 Test Procedures

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

5.2.2 Test Setup



5.2.3 Test Limits

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209

Frequency (MHz)	Limits (MHz)
27.145	Within 26.96-27.28

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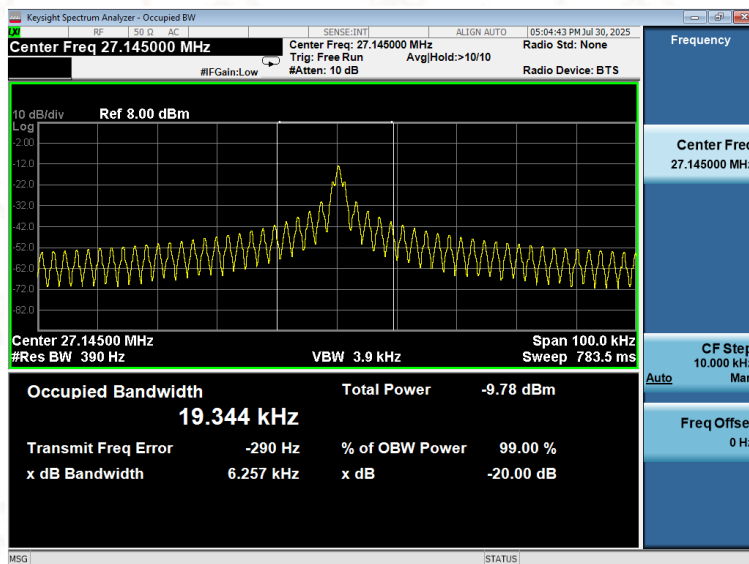


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5.2.4 Test Results



Frequency (MHz)	20dB Bandwidth
27.145	6.257kHz

5.3 Conducted Emission (CE)

For test instruments and accessories used see section 6

5.3.1 Test Procedures

The PC Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

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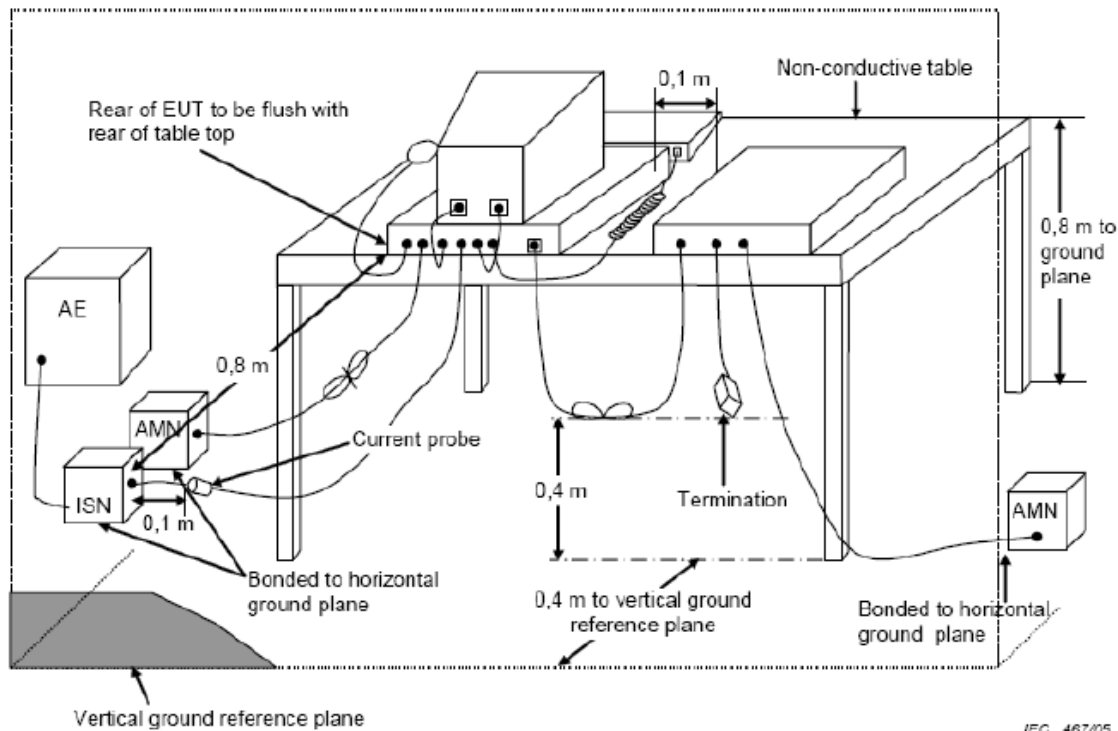
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5.3.2 Test Setup



5.3.3 Test Limits

Standard: FCC part 15, Subpart C		
Frequency of emission (MHz)	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.3.4 Test Results

Not Applicable

Note: The device is a DC power supply and does not apply to conducted emissions.

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5.4 Antenna Requirements

5.4.1 Test Standard:

FCC Part 15, Subpart C 15.203

5.4.2 Standard Requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user. but the use of a standard antenna jack or electrical connector is prohibited.

5.4.3 EUT Antenna:

The antenna is Telescopic Antenna and no consideration of replacement. The best case gain of the antenna is 0dBi. Antenna location: Refer to Internal Photos.

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6 Test Equipment

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2025/02/17	2026/02/16
Spectrum Analyzer	Keysight	N9010A	MY51120099	2025/02/17	2026/02/16
Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	01127	2025/03/11	2026/03/10
Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2025/03/11	2026/03/10
Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2025/02/17	2026/02/16
Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2025/02/17	2026/02/16
Line Impedance Stabilization Network / V LINE	SCHWARZBECK	NSLK 8127 RC	8127-RC 05040	2025/02/17	2026/02/16
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F N00359	2025/02/17	2026/02/16
DC Power Supply	MAISEN	MP5030D	2018121557	2025/02/20	2026/02/09
Active Loop Antenna	HRTY	HR8913A	69331322060 23	2025/07/18	2026/07/18
BAT-EMC Testing (Test Software)	NEXIO	Version: 3.19.1.20	N/A	/	/

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Test Report



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7 Test Photographs

Referring to – “Test Setup Photos of AJT250728026P-3”.

8 Photos of the EUT

Referring to – “External Photos of AJT250728026P-1” and “Internal Photos of AJT250728026P-2”.

END OF TEST REPORT

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

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