



시험 성적서

TEST REPORT

페이지(page) : (1) / 총(Total) (14)

성적서 번호 Report No.		ICRT-TR-E262235-0A	
신청자 Client	기관명 Name	CHUNJITEK CO., Ltd	
	주 소 Address	18, Gajeong-ro 38beon-gil, Seo-gu, Incheon, South Korea	
시험대상품목 Sample description		CONTROLLER-SMART KEY	
모델명 Type description		SMC-V1	
정 격 Ratings		DC 12.0 V	
시험장소 Place of test		☒ 고정시험실(Permanent Testing Lab) ☐ 현장시험(On Site Testing) 주소지(Address): 112, 113 Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		20. Jul. 2026	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C RSS-Gen & RSS-210	
시험결과 Test Results		Refer to 3. Test Summary	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성명 Name Eun-Hye, Kwak (Signature)	성명 Name Yong-Min, Won (Signature)	
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2026. 07. 21 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR			

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E262235-0A	2026.07.21	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	CHUNJITEK CO., Ltd
Address	18, Gajeong-ro 38beon-gil, Seo-gu, Incheon, South Korea (youngchang technotown 1-9)

1.2 Manufacturer Information

Applicant	CHUNJITEK CO., Ltd
Address	18, Gajeong-ro 38beon-gil, Seo-gu, Incheon, South Korea (youngchang technotown 1-9)

1.3 Test Laboratory Information

Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
KOLAS No.	KT652
KC & FCC	KR0165

1.4 Measurement Uncertainty

Parameter	Uncertainty	Limit
Occupied Channel Bandwidth	0.14%	±5 %
RF output power, conducted	0.85 dB	±1.5 dB
Power Spectral Density, conducted	1.44 dB	±3 dB
Unwanted Emissions, conducted	1.35 dB	±3 dB
Supply voltages	0.02%	±3 %
Time	0.58%	±5 %
All emissions, radiated (Under the 30 MHz)	2.10 dB	±6 dB
All emissions, radiated (Range 30 MHz ~ 1 GHz)	1.95 dB	±6 dB



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	CONTROLLER-SMART KEY
Model Name	SMC-V1
Additional Model Name	-
Power Supply	DC 12.0 V
FCC ID	2BW2XSMC-V1
ISED certification number	35907-SMC-V1

2.2 Additional Information

Equipment Class	DCD - Part 15 Low Power Transmitter Below 1705 kHz
Device Type	Stand-alone
Operating Frequency	Tx : 125 kHz, Rx : 433.92 MHz
Modulation Type	ASK

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test.



3. Test Summary

3.1 Test standards and results

FCC Part 15 Subpart C & RSS-Gen & RSS-210				
FCC Part Clause	RSS Clause	Test items	Applied	Results
-	RSS-Gen 6.7	99 % Bandwidth	■	PASS
§15.209 (a)	RSS-Gen 8.9 RSS-210 8.2, 8.3	Radiated Spurious Emission	■	PASS
§15.207 (a)	RSS-Gen 8.8	AC power-line conducted emissions limits	■	PASS

※The X-, Y-, and Z-axis orientations were compared, and the X-axis orientation was selected for testing because it exhibited the highest output level.

3.2 Purpose of the test

- To determine whether the equipment under test fulfills the requirements of the standards stated in FCC Part 15 Subpart C Section 15.209 & RSS-Gen

3.3 Test Methodology

- Both conducted and radiated testing was performed according to the procedures in ANSI C63.10-2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

3.4 Configuration of Test System

- Both conducted and radiated testing was performed according to the procedures in ANSI C63.10-2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

3.4.1 Radiated emission test

- Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10-2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.



4. Test Result

4.1 99 % Bandwidth

4.1.1 Test procedure

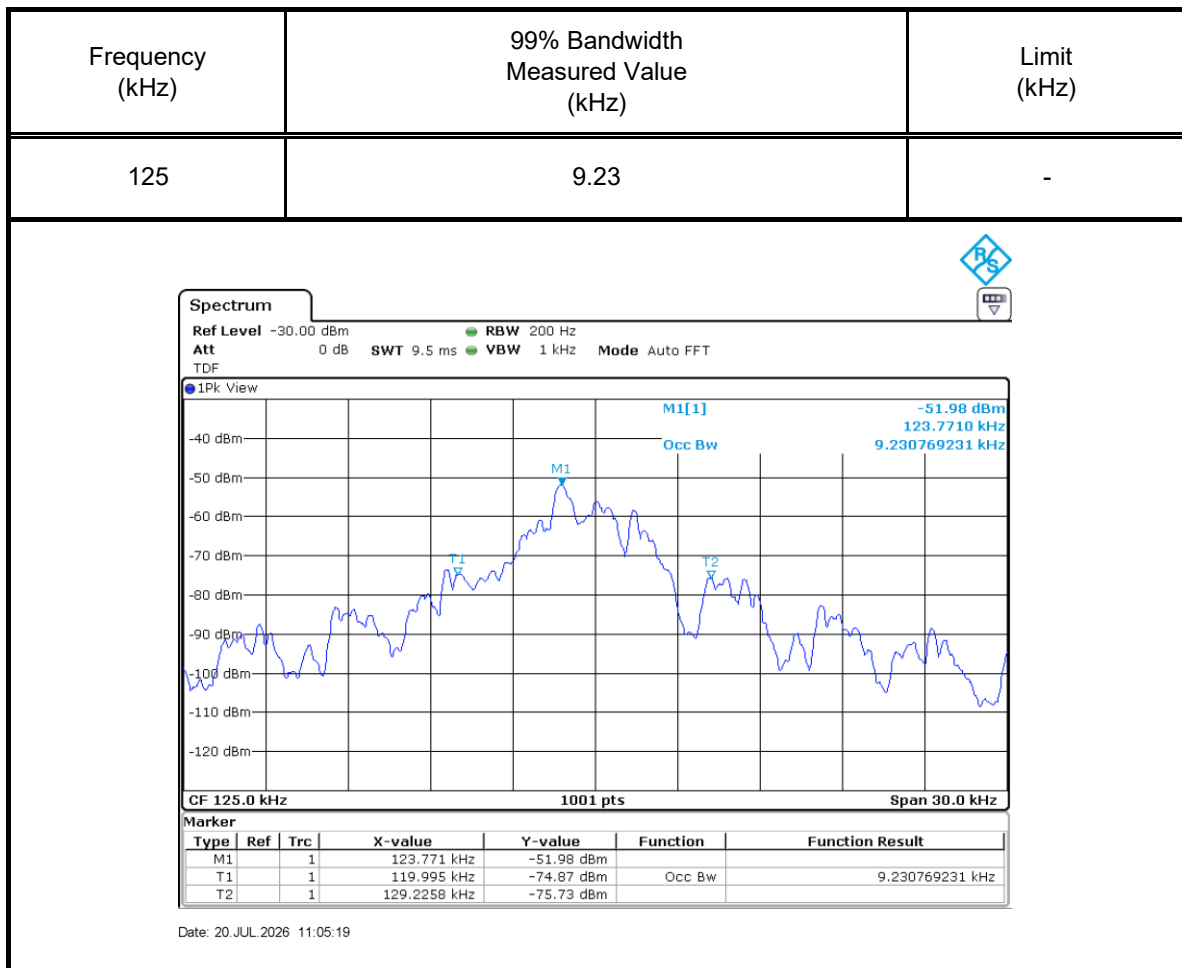
ANSI C63.10-2020 6.9.3 & RSS-Gen 6.7

4.1.2 Limit

-

4.1.3 Test data

Result : Pass





4.2 Radiated Spurious Emission

4.2.1 Test procedure

ANSI C63.10-2020 Clause 6.4, 6.5, 6.6
RSS-Gen 8.9 & RSS-210 8.2, 8.3

4.2.2 Limit

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.



4.2.3 Test data

Result : Pass

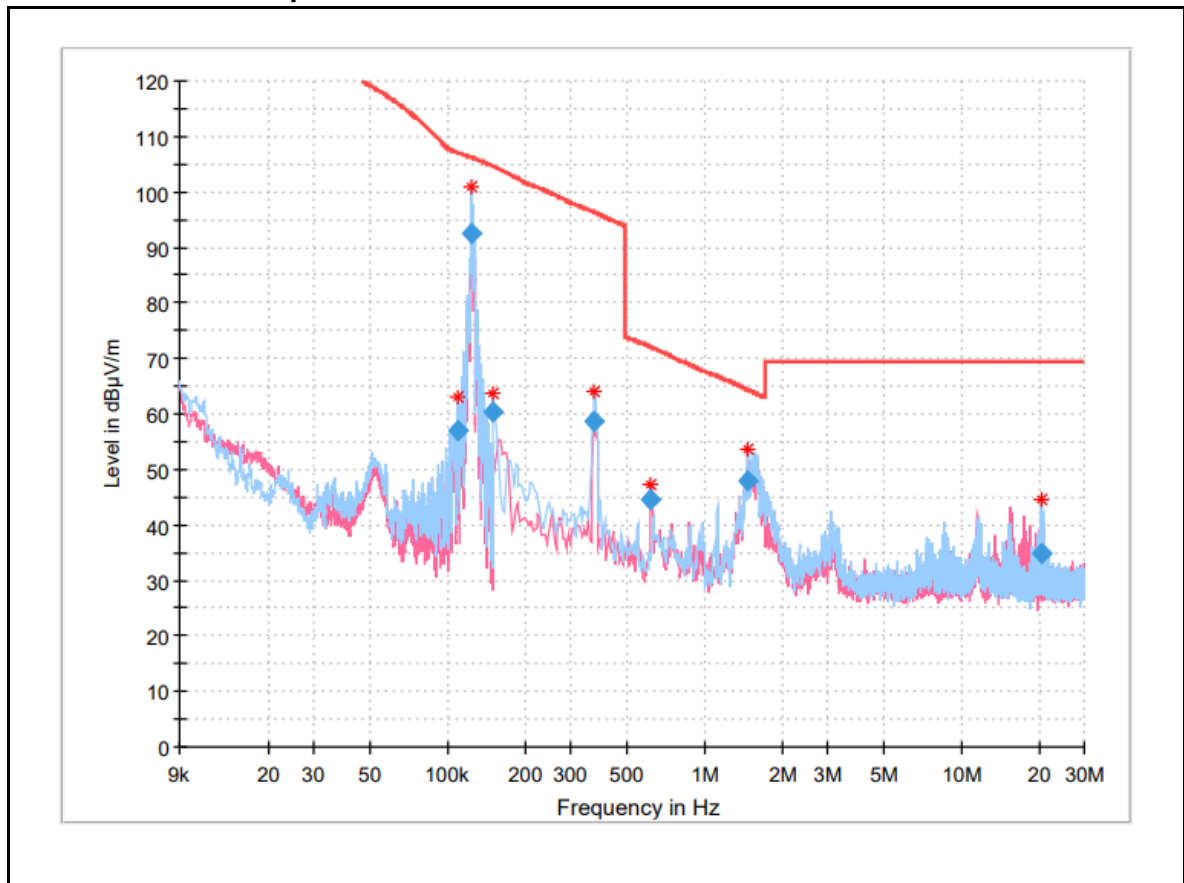
- Below 30 MHz

Frequency (MHz)	Reading (dBuV/m)	Detector	Pol.	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	note
0.109	37.16	QP	H	19.90	57.06	106.89	49.83	-
0.124	72.76	QP	H	19.90	92.66	105.76	13.10	-
0.150	40.37	QP	H	19.90	60.27	104.08	43.81	-
0.371	38.71	QP	H	19.90	58.61	96.22	37.61	-
0.619	24.73	QP	V	19.90	44.63	71.78	27.15	-
1.478	28.03	QP	H	19.90	47.93	64.21	16.28	-

※ Limit =at 0.009-0.490MHz and 3m distance, $20\log(2400/F(\text{kHz})) + 40\log(300\text{m}/3\text{m})$

※ Limit =at 0.490-1.705MHz and 3m distance, $20\log(24000/F(\text{kHz})) + 40\log(30\text{m}/3\text{m})$

4.2.4 Measured Graph





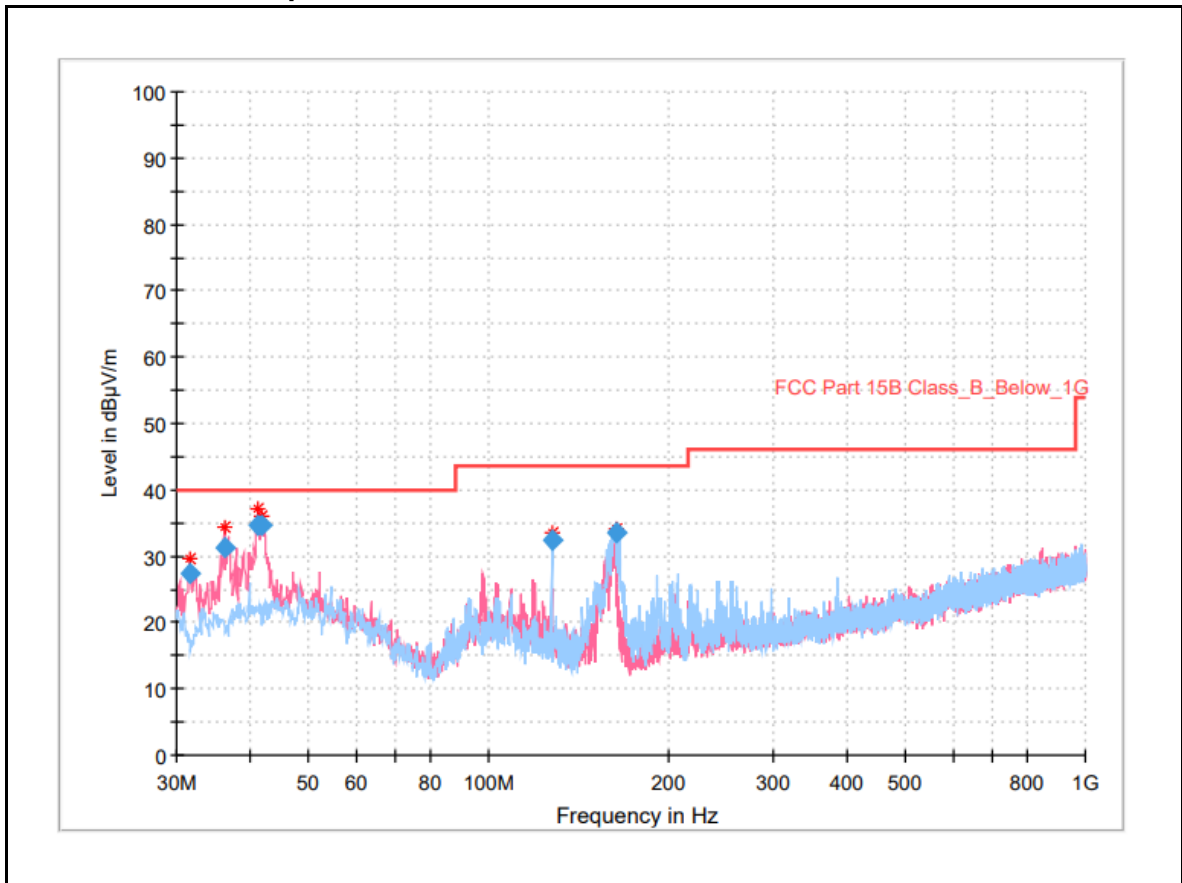
4.2.5 Test data

Result : Pass

- 30 MHz ~ 1 GHz

Frequency (MHz)	Reading (dBuV/m)	Detector	Pol.	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	note
31.649	45.87	QP	V	-18.50	27.37	40.00	12.63	-
36.111	48.17	QP	V	-16.90	31.27	40.00	8.73	-
41.058	49.89	QP	V	-15.30	34.59	40.00	5.41	-
41.640	49.90	QP	V	-15.30	34.60	40.00	5.40	-
127.582	51.61	QP	H	-19.30	32.31	43.52	11.21	-
163.181	52.83	QP	H	-19.30	33.53	43.52	9.99	-

4.2.6 Measured Graph





4.3 Power Line Conducted Emission

4.3.1 Test procedure

ANSI C63.10-2020 Clause 6.2 & RSS-Gen 8.8

4.3.2 Limit

§15.207 (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.



4.3.3 Test data

L-Line Conducted Emission

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dBuV)	note
0.224	28.53	QP	9.90	38.43	62.66	24.23	-
	4.47	AVG		14.37	52.66	38.29	
0.247	30.54	QP	9.70	40.24	61.87	21.63	-
	8.24	AVG		17.94	51.87	33.93	
0.337	28.37	QP	9.80	38.17	59.28	21.11	-
	10.00	AVG		19.80	49.28	29.48	
0.456	28.81	QP	9.90	38.71	56.77	18.06	-
	11.67	AVG		21.57	46.77	25.20	
0.809	21.05	QP	9.80	30.85	56.00	25.15	-
	3.99	AVG		13.79	46.00	32.21	
1.214	17.71	QP	9.80	27.51	56.00	28.49	-
	2.93	AVG		12.73	46.00	33.27	

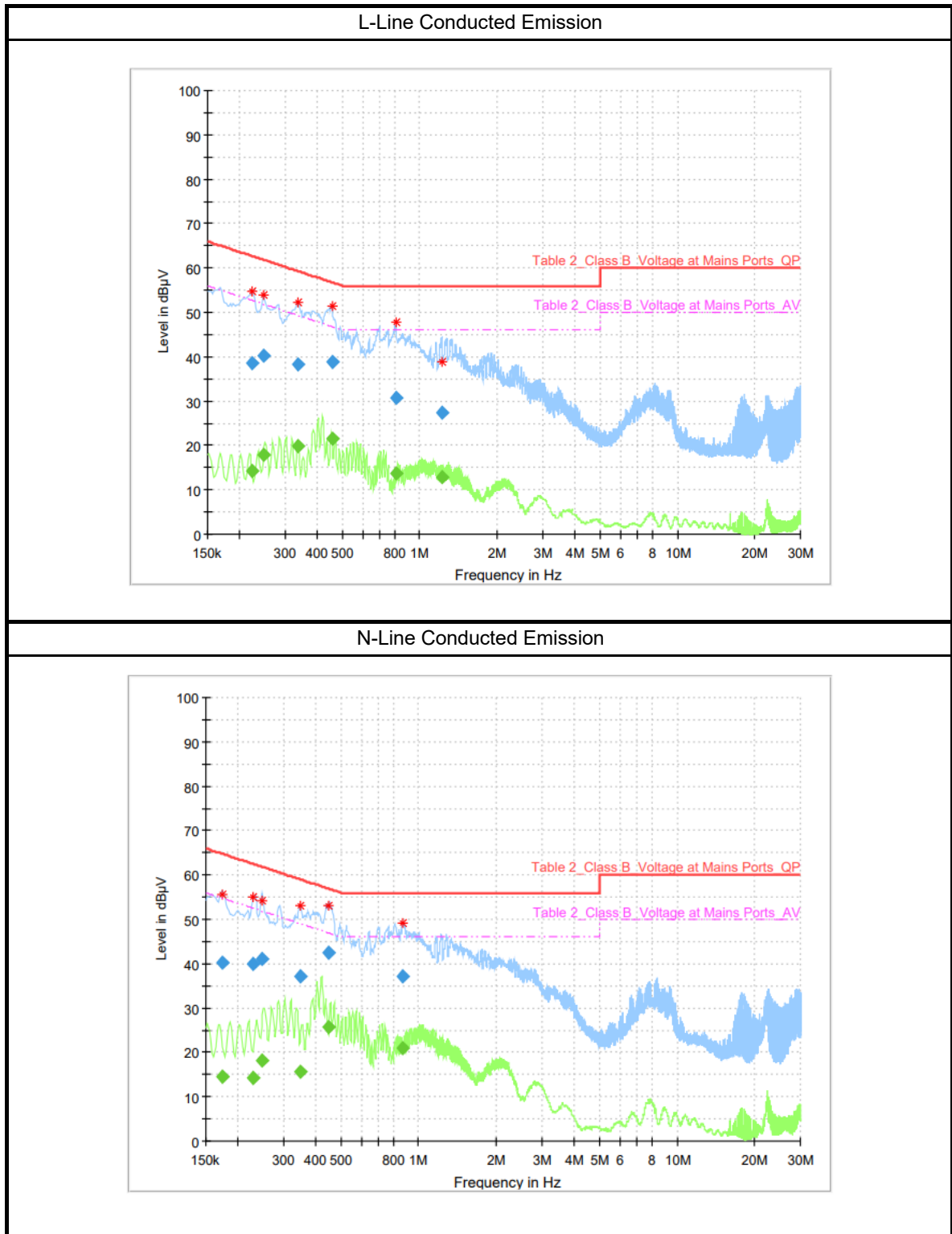
N-Line Conducted Emission

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dBuV)	note
0.175	29.80	QP	10.30	40.10	64.73	24.63	-
	4.09	AVG		14.39	54.73	40.34	
0.229	29.99	QP	9.90	39.89	62.50	22.61	-
	4.25	AVG		14.15	52.50	38.35	
0.247	31.43	QP	9.70	41.13	61.87	20.74	-
	8.57	AVG		18.27	51.87	33.60	
0.348	27.43	QP	9.80	37.23	59.01	21.78	-
	5.80	AVG		15.60	49.01	33.41	
0.447	32.62	QP	9.90	42.52	56.93	14.41	-
	15.92	AVG		25.82	46.93	21.11	
0.866	27.17	QP	9.90	37.07	56.00	18.93	-
	11.13	AVG		21.03	46.00	24.97	



4.3.4 Measured Graph

Result : Pass





5. Used equipment

	Description	Model Name	Manufacturer	Serial Number	Next Cal
■	LOOP ANTENNA	HFH2-Z2	ROHDE & SCHWARZ	100271	2027-03-04
■	TRILOG BROADBAND ANTENNA	VULB 9162	SCHWARZBECK	120	2026-12-09
■	EMI TEST RECEIVER	ESR26	ROHDE & SCHWARZ	101461	2027-03-23
■	SIGNAL CONDITIONING UNIT	SCU 08	ROHDE & SCHWARZ	100745	2027-03-23
■	TWO-LINE V-NETWORK	ENV216	ROHDE & SCHWARZ	102194	2027-03-24
■	EMI TEST RECEIVER	ESR3	ROHDE & SCHWARZ	102119	2027-03-23
■	TWO-LINE V-NETWORK	ENV216	ROHDE & SCHWARZ	102194	2027-03-24
■	EMI TEST RECEIVER	ESR3	ROHDE & SCHWARZ	102119	2027-03-23
■	SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	180607	2027-02-24
■	SPECTRUM ANALYZER	FSV40-N	ROHDE & SCHWARZ	101303	2027-02-23
■	DC BLOCK	PDCB-00012650-SMSF-2	PSATEK INC.	-	2027-02-26