

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-24N-RWD-017

Reception No. : 2408002803

Applicant : LINKFLOW Co., Ltd.

Address : 3,4F, 54, Nonhyeon-ro 2-gil, Gangnam-gu, Seoul, South Korea

Manufacturer : LINKFLOW Co., Ltd.

Address : 3,4F, 54, Nonhyeon-ro 2-gil, Gangnam-gu, Seoul, South Korea

Type of Equipment : LINKFLOW BOLD

FCC ID. : 2AVCKLFE1300

Model Name : LF-E1300

Multiple Model Name : LF-E1000, LF-E1320, LF-E1340, LF-E2300, LF-E2320, LF-E2340, LF-E3300,
LF-E3320, LF-E3340, LF-E2000, LF-E3000

Serial number : N/A

Total page of Report : 39 pages (including this page)

Date of Incoming : September 02, 2024

Date of issue : November 12, 2024

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



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※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-24N-RWD-017	November 12, 2024	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : LINKFLOW Co., Ltd.
 Address : 3,4F, 54, Nonhyeon-ro 2-gil, Gangnam-gu, Seoul, South Korea
 Contact Person : Chunghee Lee / Senior Engineer
 Telephone No. : +82-10-3332-0211
 FCC ID : 2AVCKLFE1300
 Model Name : LF-E1300
 Brand Name : LINKFLOW
 Serial Number : N/A
 Date : November 12, 2024

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	LINKFLOW BOLD
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The LINKFLOW Co., Ltd., Model LF-E1300 (referred to as the EUT in this report) is a LINKFLOW BOLD. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	LINKFLOW BOLD	
Temperature Range	0 °C ~ 40 °C	
Operating Frequency	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	Bluetooth	2 402 MHz ~ 2 480 MHz
	WLAN 2.4 GHz	2 412 MHz ~ 2 462 MHz (802.11b/g/n(HT20)) 2 422 MHz ~ 2 452 MHz (802.11n(HT40))
	WLAN	5 180 MHz ~ 5 240 MHz (802.11a/n(HT20))
	5 150 MHz ~	5 190 MHz ~ 5 230 MHz (802.11n(HT40))
	5 250 MHz Band	5 210 MHz (802.11ac(VHT80))
	WLAN	5 745 MHz ~ 5 825 MHz (802.11a/n(HT20))
	5 725 MHz ~	5 755 MHz ~ 5 795 MHz (802.11n(HT40))
	5 850 MHz Band	5 775 MHz (802.11ac(VHT80))
Modulation Type	Bluetooth LE	GFSK for 1 Mbps, 2 Mbps
	Bluetooth	GFSK for 1Mbps, $\pi/4$ -DQPSK for 2Mbps, 8-DPSK for 3Mbps
	WLAN 2.4 GHz	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g/n(HT20): OFDM Modulation (BPSK/QPSK/16QAM/64QAM)
	WLAN 5 GHz	802.11a/n(HT20)/n(HT40)/ac(VHT80): OFDM Modulation(BPSK/QPSK/16QAM/64QAM)

RF Output Power	Bluetooth LE	1 Mbps	7.19 dBm
		2 Mbps	7.48 dBm
	Bluetooth	1 Mbps	12.23 dBm
		2 Mbps	11.64 dBm
		3 Mbps	11.62 dBm
	WLAN 2.4 GHz	802.11b	17.55 dBm
		802.11g	19.42 dBm
		802.11n(HT20)	19.45 dBm
		802.11n(HT40)	23.44 dBm
	WLAN 5 150 MHz ~ 5 250 MHz Band	802.11a	15.30 dBm
		802.11n(HT20)	15.17 dBm
		802.11n(HT40)	15.82 dBm
		802.11ac(VHT80)	15.50 dBm
	WLAN 5 725 MHz ~ 5 850 MHz Band	802.11a	16.36 dBm
		802.11n(HT20)	16.22 dBm
		802.11n(HT40)	15.99 dBm
		802.11ac(VHT80)	16.65 dBm
Antenna Type	FPCB Antenna		
Antenna Gain	Bluetooth LE	0.32 dBi	
	Bluetooth	0.32 dBi	
	WLAN 2.4 GHz	0.32 dBi	
	WLAN 5 150 MHz ~ 5 250 MHz Band	1.15 dBi	
	WLAN 5 725 MHz ~ 5 850 MHz Band	3.00 dBi	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)		38.4 MHz	

3.2 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
LF-E1300	Basic Model	☒
LF-E1000, LF-E1320, LF-E1340, LF-E2300, LF-E2320, LF-E2340, LF-E3300, LF-E3320, LF-E3340, LF-E2000, LF-E3000	This model is identical to the basic model except for the model name (Varies depending on B2C, B2B, B2G) only.	☐

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	LINKFLOW Co., Ltd.	N/A	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
LF-E1300	LINKFLOW Co., Ltd.	LINKFLOW BOLD (EUT)	
RT329OLE	HP	Notebook PC	EUT
PPP009C	CHICONY POWER TECHNOLOGY (Chong Qing) Co., LTD.	AC Adapter	

5.3 Mode of operation during the test

- Channel List (WLAN 2.4 GHz)

Channel	Frequency[MHz]	Channel	Frequency[MHz]	Channel	Frequency[MHz]
1	2 412.00	6	2 437.00	11	2 462.00
2	2 417.00	7	2 442.00		
3	2 422.00	8	2 447.00		
4	2 427.00	9	2 452.00		
5	2 432.00	10	2 457.00		

-. Duty Cycle

Band	TEST Mode	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
WLAN 2.4 GHz	802.11 b	1	12.433	12.536	99.18	0.04
		2	6.313	6.420	98.33	0.07
		5.5	2.419	2.520	95.98	0.18
		11	1.306	1.398	93.38	0.30
	802.11 g	6	2.065	2.101	98.29	0.07
		9	1.385	1.421	97.48	0.11
		12	1.045	1.081	96.66	0.15
		18	0.705	0.741	95.16	0.22
		24	0.533	0.569	93.65	0.28
		36	0.364	0.400	91.16	0.40
		48	0.277	0.312	88.67	0.52
		54	0.248	0.284	87.55	0.58
	802.11 n(HT20)	1.925	1.961	98.17	0.08	1.925
		0.981	1.017	96.47	0.16	0.981
		0.669	0.705	94.91	0.23	0.669
		0.509	0.545	93.42	0.30	0.509
		0.353	0.388	90.90	0.41	0.353
		0.273	0.308	88.45	0.53	0.273
		0.248	0.284	87.55	0.58	0.248
		0.228	0.264	86.52	0.63	0.228
	802.11 n(HT40)	0.949	0.999	94.96	0.22	0.949
		0.493	0.543	90.79	0.42	0.493
		0.341	0.391	87.15	0.60	0.341
		0.265	0.315	84.05	0.75	0.265
		0.188	0.239	78.74	1.04	0.188
		0.153	0.203	75.20	1.24	0.153
		0.140	0.191	73.41	1.34	0.140
		0.129	0.179	71.86	1.44	0.129

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : $10 * \log(1 / (\text{Duty Cycle} / 100))$

5.4 Configuration of Test System

Line Conducted Test: The EUT was tested in the Transmitting mode. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter 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.

5.5 Antenna Requirement

For intentional device, according to section 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.

Antenna Construction:

The antenna of the EUT is a FPCB Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Output Power	0.90
Conducted Spurious Emission < 26.5 GHz	1.26
Power Spectral Density	1.20
Line Conducted Disturbance (150 kHz ~ 30 MHz)	2.00
Radiated Disturbance (9 kHz ~ 30 MHz)	3.30
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.10
Radiated Disturbance (18 GHz ~ 40 GHz)	5.65

7. PRELIMINARY TEST

7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

8. MINIMUM 6 dB BANDWIDTH

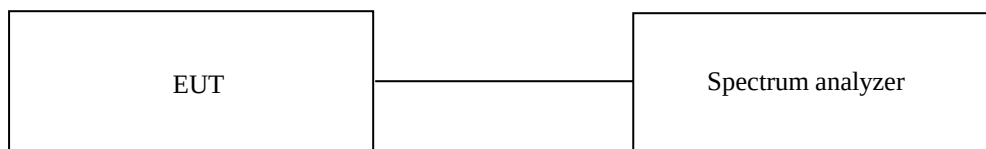
8.1 Operating environment

Temperature : 24 °C

Relative humidity : 45 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



8.3 Test Date

September 09, 2024 ~ October 12, 2024

8.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
Low	2 412.00	8.09	0.50	7.59
Middle	2 437.00	8.09	0.50	7.59
High	2 462.00	8.14	0.50	7.64

Remark. Margin = Measured Value – Limit

8.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
Low	2 412.00	16.03	0.50	15.53
Middle	2 437.00	15.14	0.50	14.64
High	2 462.00	15.68	0.50	15.18

Remark. Margin = Measured Value – Limit

8.6 Test data for 802.11n(HT20) WLAN Mode

-. Test Result : Pass

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
Low	2 412.00	15.98	0.50	15.48
Middle	2 437.00	15.13	0.50	14.63
High	2 462.00	15.33	0.50	14.83

Remark. Margin = Measured Value – Limit

8.7 Test data for 802.11n(HT40) WLAN Mode

-. Test Result : Pass

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
Low	2 422.00	35.86	0.50	35.36
Middle	2 437.00	33.97	0.50	33.47
High	2 452.00	35.86	0.50	35.36

Remark. Margin = Measured Value – Limit

9. MAXIMUM CONDUCTED(PEAK) OUTPUT POWER

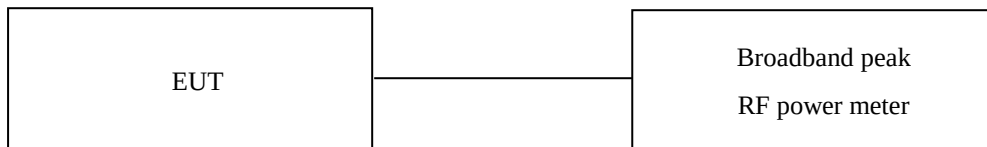
9.1 Operating environment

Temperature : 24 °C

Relative humidity : 45 % R.H.

9.2 Test set-up

The maximum conducted peak output power was measured with the broadband peak RF power meter connected to the antenna output of the EUT. The broadband peak RF power meter is measured when the EUT is transmitting at the appropriate center frequency its maximum power control level. The broadband peak RF power meter has a video bandwidth Max. 165 MHz.



9.3 Test Date

September 09, 2024 ~ October 12, 2024

9.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 99.18 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm)	Margin (dB)
Low	2 412.00	17.36	-	17.36	30.00	12.64
Middle	2 437.00	17.55	-	17.55	30.00	12.45
High(11)	2 462.00	17.24	-	17.24	30.00	12.76

Remark. Margin = Limit – Total Value (=Measured Value)

9.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 98.29 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm)	Margin (dB)
Low	2 412.00	17.55	-	17.55	30	12.45
Middle	2 437.00	19.42	-	19.42	30	10.58
High(11)	2 462.00	17.61	-	17.61	30	12.39

Remark. Margin = Limit – Total Value (=Measured Value)

9.6 Test data for 802.11n(HT20) WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 98.17 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm)	Margin (dB)
Low	2 412.00	14.45	-	14.45	30	15.55
Middle	2 437.00	19.45	-	19.45	30	10.55
High(11)	2 462.00	16.83	-	16.83	30	13.17

Remark. Margin = Limit – Total Value (=Measured Value)

9.7 Test data for 802.11n(HT40) WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 94.96 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm)	Margin (dB)
Low(3)	2 422.00	15.44	-	15.44	30.00	14.56
Middle	2 437.00	23.44	-	23.44	30.00	6.57
High(9)	2 452.00	17.07	-	17.07	30.00	12.93

Remark. Margin = Limit – Total Value (=Measured Value)

10. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

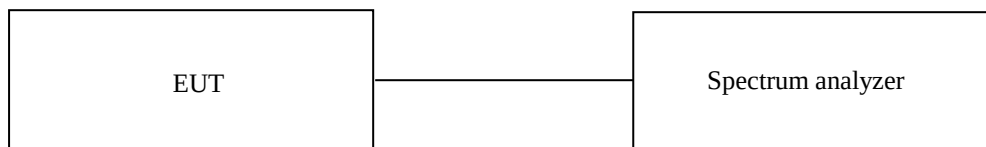
10.1 Operating environment

Temperature : 24 °C

Relative humidity : 45 % R.H.

10.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz and video bandwidth is set to 300 kHz, and peak detection was used.



10.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

10.4 Test Date

September 09, 2024 ~ October 12, 2024

10.5 Test data for conducted emission

Please refer to the Annex

10.6 Test data for radiated emission

10.6.1 Radiated Emission which fall in the Restricted Band

10.6.1.1 Test data for 802.11b WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 99.18 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 389.12	53.70	Peak	H	27.54	4.65	41.74	6.11	-	50.26	74.00	23.74
2 389.94	45.42	Average	H	27.54	4.65	41.74	6.11	0.04	42.02	54.00	11.98
2 386.88	54.25	Peak	V	27.55	4.65	41.74	6.11	-	50.82	74.00	23.18
2 386.88	46.93	Average	V	27.55	4.65	41.74	6.11	0.04	43.54	54.00	10.46
Test Data for High Channel											
2 484.61	54.77	Peak	H	27.40	4.83	41.73	6.13	-	51.40	74.00	22.60
2 483.51	46.30	Average	H	27.40	4.83	41.73	6.13	0.04	42.97	54.00	11.03
2 484.91	55.01	Peak	V	27.40	4.83	41.73	6.13	-	51.64	74.00	22.36
2 486.62	47.69	Average	V	27.40	4.83	41.73	6.13	0.04	44.36	54.00	9.64

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss + ATT + Duty Factor - AMP Gain

10.6.1.2 Test data for 802.11g WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 98.29 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 389.84	63.39	Peak	H	27.54	4.65	41.74	6.11	-	59.95	74.00	14.05
2 389.40	53.30	Average	H	27.54	4.65	41.74	6.11	0.07	49.93	54.00	4.07
2 389.43	65.47	Peak	V	27.54	4.65	41.74	6.11	-	62.03	74.00	11.97
2 389.40	53.25	Average	V	27.54	4.65	41.74	6.11	0.07	49.88	54.00	4.12
Test Data for High Channel											
2 483.85	68.69	Peak	H	27.40	4.83	41.73	6.13	-	65.32	74.00	8.68
2 483.62	53.36	Average	H	27.40	4.83	41.73	6.13	0.07	50.06	54.00	3.94
2 484.34	67.96	Peak	V	27.40	4.83	41.73	6.13	-	64.59	74.00	9.41
2 483.54	52.22	Average	V	27.40	4.83	41.73	6.13	0.07	48.92	54.00	5.08

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{ATT} + \text{Duty Factor} - \text{AMP Gain}$$

10.6.1.3 Test data for 802.11n(HT20) WLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 98.17 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 390.04	64.77	Peak	H	27.54	4.65	41.74	6.11	-	61.33	74.00	12.67
2 389.40	52.69	Average	H	27.54	4.65	41.74	6.11	0.08	49.33	54.00	4.67
2 389.43	62.27	Peak	V	27.54	4.65	41.74	6.11	-	58.83	74.00	15.17
2 389.40	48.81	Average	V	27.54	4.65	41.74	6.11	0.08	45.45	54.00	8.55
Test Data for High Channel											
2 483.73	59.91	Peak	H	27.40	4.83	41.73	6.13	-	56.54	74.00	17.46
2 483.54	49.07	Average	H	27.40	4.83	41.73	6.13	0.08	45.78	54.00	8.22
2 484.46	63.64	Peak	V	27.40	4.83	41.73	6.13	-	60.27	74.00	13.73
2 483.62	50.22	Average	V	27.40	4.83	41.73	6.13	0.08	46.93	54.00	7.07

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{ATT} + \text{Duty Factor} - \text{AMP Gain}$$

10.6.1.4 Test data for 802.11n(HT40) WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 94.96 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 386.03	63.00	Peak	H	27.56	4.65	41.74	6.11	-	59.58	74.00	14.42
2 389.94	54.00	Average	H	27.54	4.65	41.74	6.11	0.25	50.81	54.00	3.19
2 386.70	60.81	Peak	V	27.55	4.65	41.74	6.11	-	57.38	74.00	16.62
2 389.61	50.51	Average	V	27.54	4.65	41.74	6.11	0.25	47.32	54.00	6.68
Test Data for High Channel											
2 484.34	63.36	Peak	H	27.40	4.83	41.73	6.13	-	59.99	74.00	14.01
2 483.62	53.27	Average	H	27.40	4.83	41.73	6.13	0.25	50.15	54.00	3.85
2 483.91	63.54	Peak	V	27.40	4.83	41.73	6.13	-	60.17	74.00	13.83
2 484.30	52.64	Average	V	27.40	4.83	41.73	6.13	0.25	49.52	54.00	4.48

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{ATT} + \text{Duty Factor} - \text{AMP Gain}$$

10.6.2 Spurious & Harmonic Radiated Emission

10.6.2.1 Test data for 802.11b WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 99.18 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 833.09	49.69	Peak	H	31.20	6.59	41.28	-	46.20	74.00	27.80
4 823.95	38.18	Average	H	31.20	6.60	41.29	0.04	34.73	54.00	19.27
4 824.20	52.00	Peak	V	31.20	6.60	41.29	-	48.51	74.00	25.49
4 823.90	45.60	Average	V	31.20	6.60	41.29	0.04	42.15	54.00	11.85
Test Data for Middle Channel										
4 868.31	49.77	Peak	H	31.24	6.69	41.27	-	46.43	74.00	27.57
4 850.62	37.40	Average	H	31.20	6.69	41.28	0.04	34.05	54.00	19.95
4 873.95	49.64	Peak	V	31.25	6.69	41.27	-	46.31	74.00	27.69
4 874.00	39.71	Average	V	31.25	6.69	41.27	0.04	36.42	54.00	17.58
Test Data for High Channel										
4 908.77	49.24	Peak	H	31.34	6.70	41.26	-	46.02	74.00	27.98
4 924.10	37.46	Average	H	31.40	6.70	41.26	0.04	34.34	54.00	19.66
4 924.10	50.65	Peak	V	31.40	6.70	41.26	-	47.49	74.00	26.51
4 924.05	42.44	Average	V	31.40	6.70	41.26	0.04	39.32	54.00	14.68

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Factor}$$

10.6.2.2 Test data for 802.11g WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 98.29 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 833.69	49.58	Peak	H	31.20	6.59	41.28	-	46.09	74.00	27.91
4 823.40	37.67	Average	H	31.20	6.60	41.29	0.07	34.25	54.00	19.75
4 822.45	49.65	Peak	V	31.20	6.60	41.29	-	46.16	74.00	27.84
4 822.30	37.78	Average	V	31.20	6.60	41.29	0.07	34.36	54.00	19.64
Test Data for Middle Channel										
4 876.15	49.34	Peak	H	31.25	6.70	41.27	-	46.02	74.00	27.98
4 896.93	37.41	Average	H	31.29	6.70	41.27	0.07	34.20	54.00	19.80
4 853.27	49.44	Peak	V	31.21	6.69	41.28	-	46.06	74.00	27.94
4 897.58	37.45	Average	V	31.30	6.70	41.27	0.07	34.25	54.00	19.75
Test Data for High Channel										
4 914.46	49.31	Peak	H	31.36	6.70	41.26	-	46.11	74.00	27.89
4 902.12	37.37	Average	H	31.31	6.70	41.27	0.07	34.18	54.00	19.82
4 929.84	50.04	Peak	V	31.42	6.70	41.26	-	46.90	74.00	27.10
4 899.38	37.56	Average	V	31.30	6.70	41.27	0.07	34.36	54.00	19.64

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Factor}$$

10.6.2.3 Test data for 802.11n(HT20) WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 98.17 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 825.15	50.51	Peak	H	31.20	6.59	41.29	-	47.01	74.00	26.99
4 821.10	38.13	Average	H	31.20	6.60	41.29	0.08	34.72	54.00	19.28
4 814.71	49.86	Peak	V	31.20	6.60	41.29	-	46.37	74.00	27.63
4 825.80	38.04	Average	V	31.20	6.59	41.29	0.08	34.62	54.00	19.38
Test Data for Middle Channel										
4 854.67	48.95	Peak	H	31.21	6.69	41.28	-	45.57	74.00	28.43
4 850.22	37.46	Average	H	31.20	6.69	41.28	0.08	34.15	54.00	19.85
4 866.21	49.34	Peak	V	31.23	6.69	41.27	-	45.99	74.00	28.01
4 853.97	37.52	Average	V	31.21	6.69	41.28	0.08	34.22	54.00	19.78
Test Data for High Channel										
4 933.49	48.76	Peak	H	31.43	6.70	41.26	-	45.63	74.00	28.37
4 917.16	36.83	Average	H	31.37	6.70	41.26	0.08	33.72	54.00	20.28
4 907.72	48.18	Peak	V	31.33	6.70	41.26	-	44.95	74.00	29.05
4 900.47	36.54	Average	V	31.30	6.70	41.27	0.08	33.35	54.00	20.65

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Factor}$$

10.6.2.4 Test data for 802.11n(HT40) WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 94.96 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 823.02	49.64	Peak	H	31.20	6.60	41.29	-	46.15	74.00	27.85
4 816.83	37.85	Average	H	31.20	6.60	41.29	0.25	34.61	54.00	19.39
4 837.61	49.60	Peak	V	31.20	6.59	41.28	-	46.11	74.00	27.89
4 802.54	37.70	Average	V	31.20	6.60	41.29	0.25	34.46	54.00	19.54
Test Data for Middle Channel										
4 835.34	49.49	Peak	H	31.20	6.59	41.28	-	46.00	74.00	28.00
4 827.05	37.79	Average	H	31.20	6.59	41.28	0.25	34.55	54.00	19.45
4 825.85	49.52	Peak	V	31.20	6.59	41.29	-	46.02	74.00	27.98
4 832.14	37.80	Average	V	31.20	6.59	41.28	0.25	34.56	54.00	19.44
Test Data for High Channel										
4 922.08	49.29	Peak	H	31.39	6.70	41.26	-	46.12	74.00	27.88
4 854.55	37.61	Average	H	31.21	6.69	41.28	0.25	34.48	54.00	19.52
4 861.14	49.25	Peak	V	31.22	6.69	41.28	-	45.88	74.00	28.12
4 903.80	37.68	Average	V	31.32	6.70	41.27	0.25	34.68	54.00	19.32

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Factor}$$

11. POWER SPECTRAL DENSITY(PEAK)

11.1 Operating environment

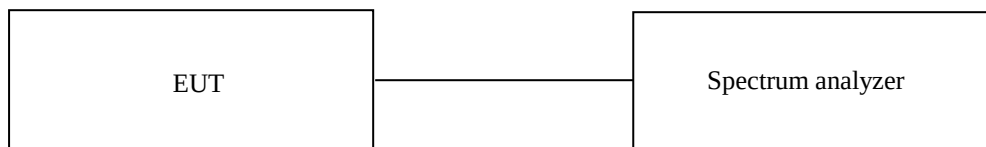
Temperature : 24 °C

Relative humidity : 45 % R.H.

11.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



11.3 Test Date

September 09, 2024 ~ October 12, 2024

11.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 99.18 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm / 3 kHz)	Margin (dB)
Low	2 412.00	5.72	-	5.72	8.00	2.28
Middle	2 437.00	5.89	-	5.89	8.00	2.11
High(11)	2 462.00	5.97	-	5.97	8.00	2.03

Remark. Margin = Limit – Total Value (=Measured Value)

11.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 98.29 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm / 3 kHz)	Margin (dB)
Low	2 412.00	-13.70	-	-13.70	8.00	21.70
Middle	2 437.00	-12.63	-	-12.63	8.00	20.63
High(11)	2 462.00	-13.73	-	-13.73	8.00	21.73

Remark. Margin = Limit – Total Value (=Measured Value)

11.6 Test data for 802.11n(HT20) WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 98.17 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm / 3 kHz)	Margin (dB)
Low	2 412.00	-16.82	-	-16.82	8.00	24.82
Middle	2 437.00	-12.19	-	-12.19	8.00	20.19
High(11)	2 462.00	-14.26	-	-14.26	8.00	22.26

Remark. Margin = Limit – Total Value (=Measured Value)

11.7 Test data for 802.11n(HT40) WLAN Mode

-. Test Result : Pass

-. Duty Cycle : 94.96 %

Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor(dB)	Total Value(dBm)	Limit (dBm / 3 kHz)	Margin (dB)
Low(3)	2 422.00	-19.69	-	-19.69	8.00	27.69
Middle	2 437.00	-10.31	-	-10.31	8.00	18.31
High(9)	2 452.00	-18.73	-	-18.73	8.00	26.73

Remark. Margin = Limit – Total Value (=Measured Value)

12. RADIATED EMISSION TEST

12.1 Operating environment

Temperature : 24 °C

Relative humidity : 45 % R.H.

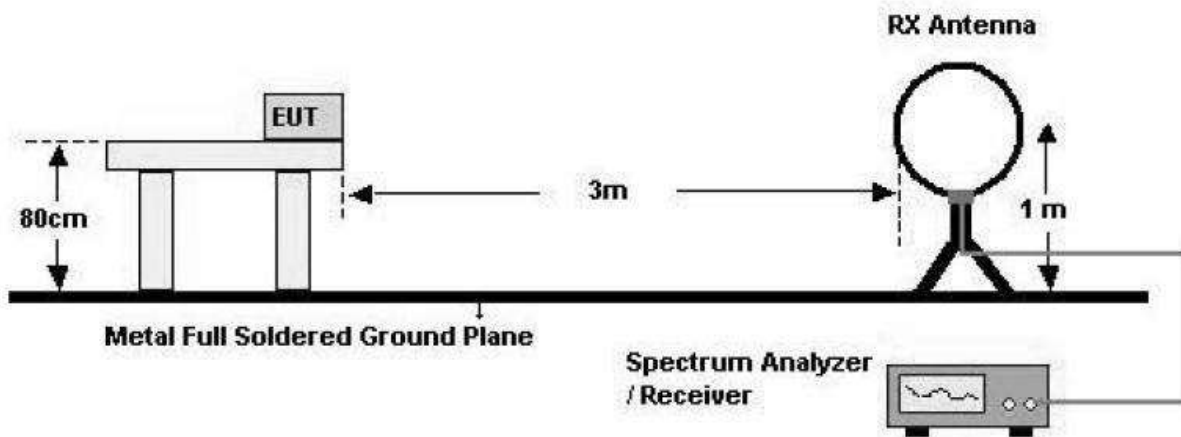
12.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

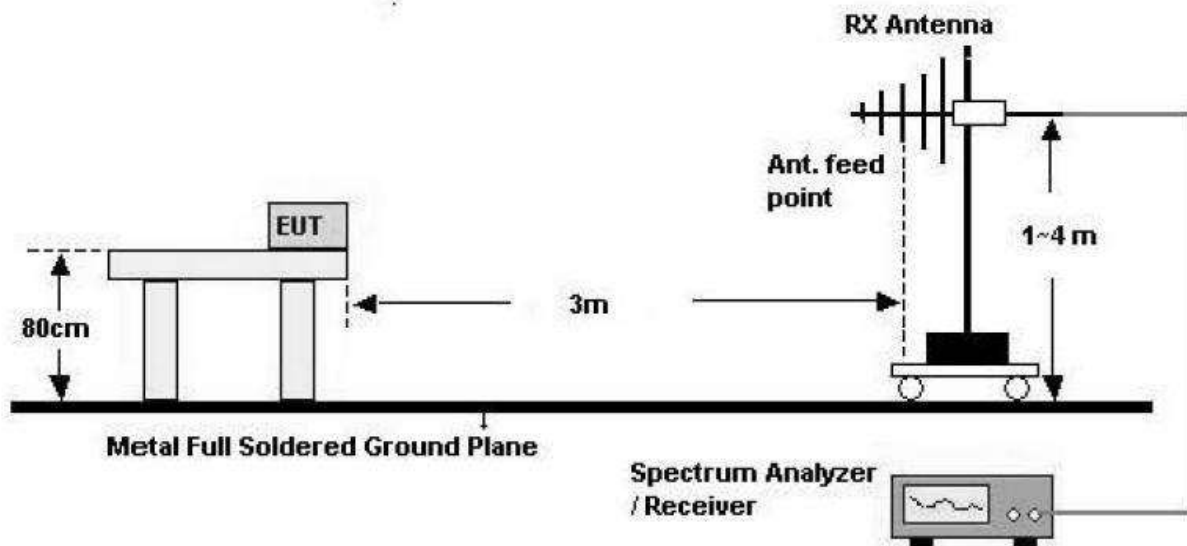
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

- Test Configuration

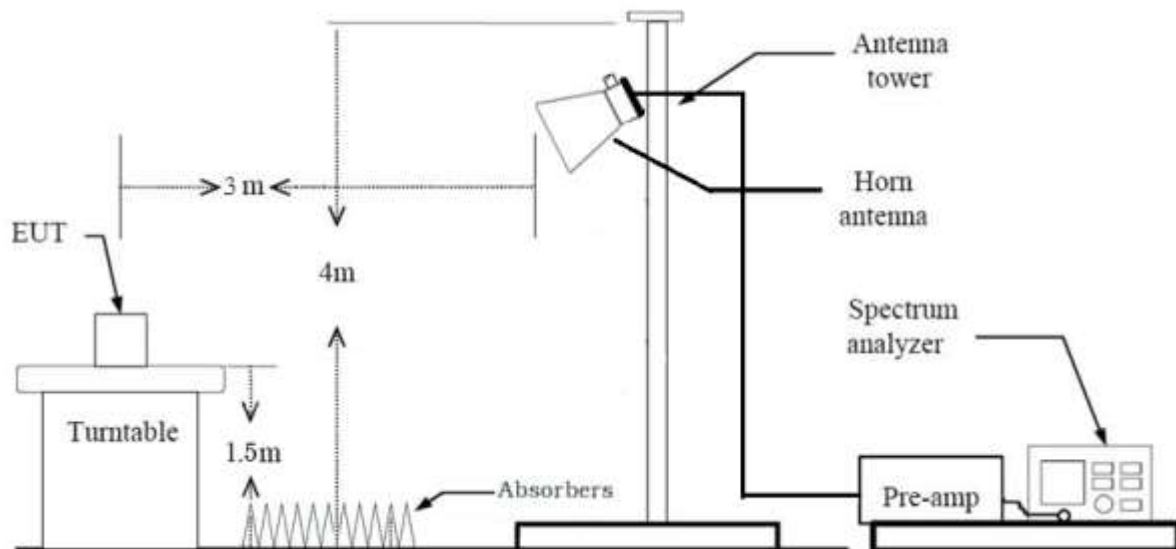
1. Below 30 MHz



2. 30 MHz - 1 GHz



3. Above 1 GHz



12.3 Test Date

September 09, 2024 ~ October 12, 2024

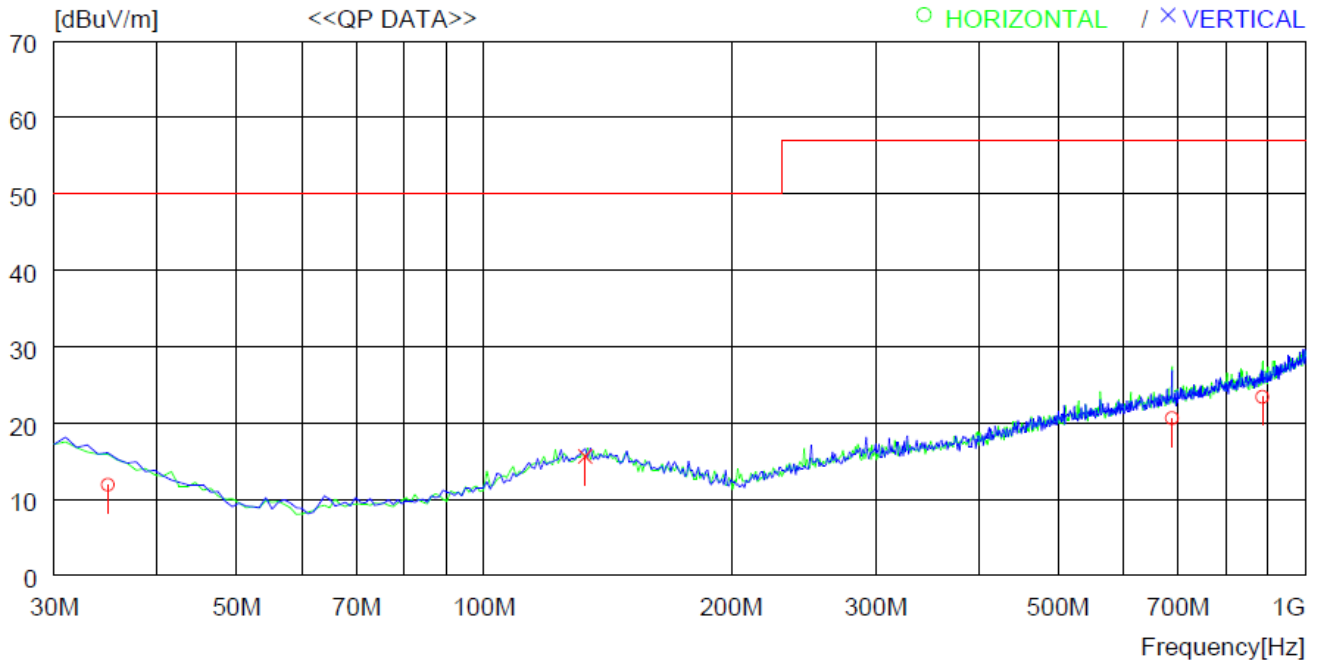
12.4 Test data for 30 MHz ~ 1 000 MHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : LINKFLOW BOLD

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	34.850	23.8	19.4	0.8	32.1	11.9	50.0	38.1	400	0
2	687.655	24.2	25.4	3.4	32.4	20.6	57.0	36.4	100	198
3	885.529	23.8	27.7	3.9	32.0	23.4	57.0	33.6	400	0
----- Vertical -----										
4	132.820	27.0	19.2	1.5	32.1	15.6	50.0	34.4	300	295

12.5 Test data for Below 30 MHz

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

12.6 Test data for above 1 GHz

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

13. CONDUCTED EMISSION TEST

13.1 Operating environment

Temperature : 24 °C
Relative humidity : 45 % R.H.

13.2 Test set-up

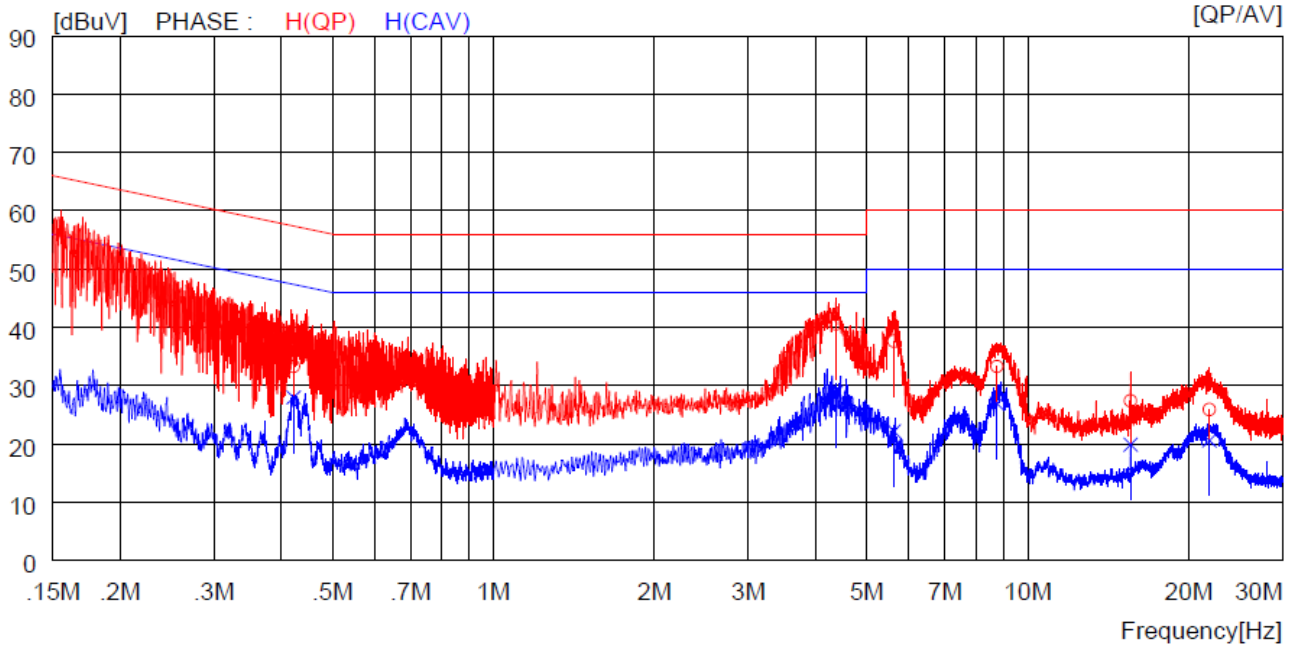
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

13.3 Test Date

September 09, 2024 ~ October 12, 2024

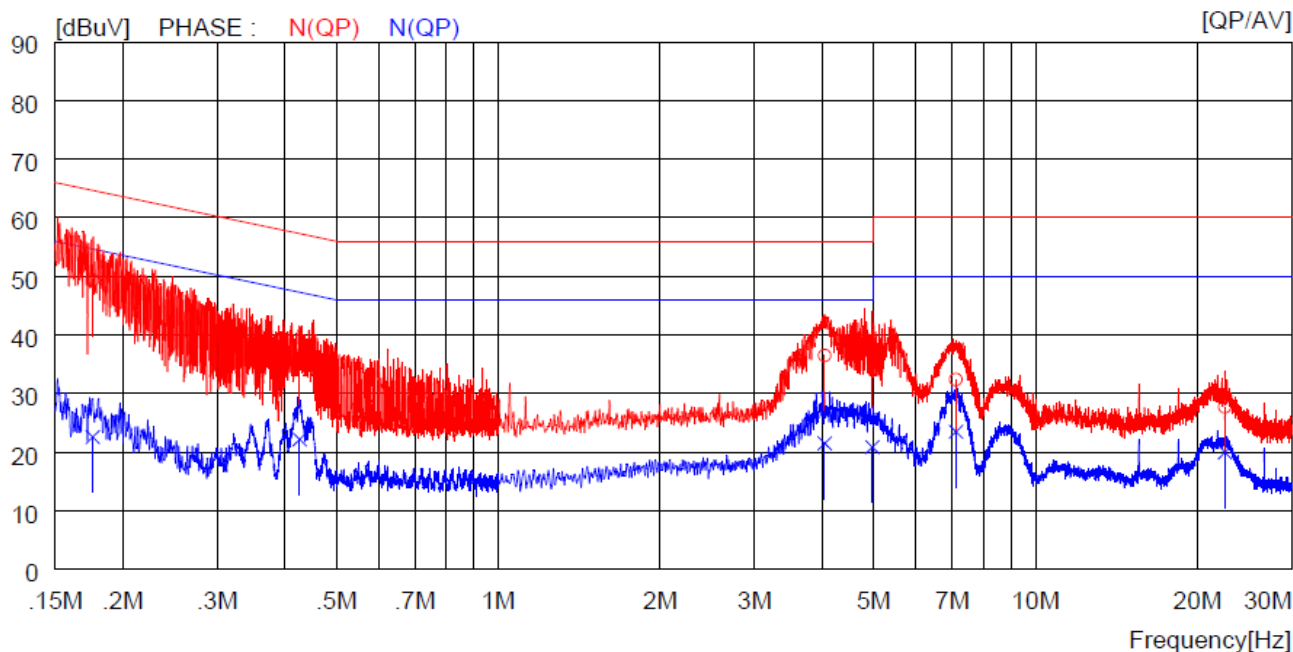
13.4 Test data

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.42300	23.2	----	10.1	33.3	----	57.4	----	24.1	----	H (QP)
2	4.38000	30.4	----	10.2	40.6	----	56.0	----	15.4	----	H (QP)
3	5.62500	27.3	----	10.3	37.6	----	60.0	----	22.4	----	H (QP)
4	8.76000	23.0	----	10.3	33.3	----	60.0	----	26.7	----	H (QP)
5	15.58000	16.8	----	10.6	27.4	----	60.0	----	32.6	----	H (QP)
6	21.88000	15.2	----	10.7	25.9	----	60.0	----	34.1	----	H (QP)
7	0.42300	----	17.9	10.1	----	28.0	----	47.4	----	19.4	H (CAV)
8	4.38000	----	18.6	10.2	----	28.8	----	46.0	----	17.2	H (CAV)
9	5.62500	----	11.9	10.3	----	22.2	----	50.0	----	27.8	H (CAV)
10	8.76000	----	16.6	10.3	----	26.9	----	50.0	----	23.1	H (CAV)
11	15.58000	----	9.3	10.6	----	19.9	----	50.0	----	30.1	H (CAV)
12	21.88000	----	9.9	10.7	----	20.6	----	50.0	----	29.4	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17600	39.2	----	10.1	49.3	----	64.7	----	15.4	----	N (QP)
2	0.42700	27.5	----	10.1	37.6	----	57.3	----	19.7	----	N (QP)
3	4.05200	26.3	----	10.2	36.5	----	56.0	----	19.5	----	N (QP)
4	4.96800	26.9	----	10.3	37.2	----	56.0	----	18.8	----	N (QP)
5	7.11500	22.1	----	10.3	32.4	----	60.0	----	27.6	----	N (QP)
6	22.53000	17.0	----	10.7	27.7	----	60.0	----	32.3	----	N (QP)
7	0.17600	----	12.5	10.1	----	22.6	----	54.7	----	32.1	N (CAV)
8	0.42700	----	12.1	10.1	----	22.2	----	47.3	----	25.1	N (CAV)
9	4.05200	----	11.3	10.2	----	21.5	----	46.0	----	24.5	N (CAV)
10	4.96800	----	10.6	10.3	----	20.9	----	46.0	----	25.1	N (CAV)
11	7.11500	----	13.2	10.3	----	23.5	----	50.0	----	26.5	N (CAV)
12	22.53000	----	9.3	10.7	----	20.0	----	50.0	----	30.0	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

14. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101199	Jan. 15, 2024 (1Y)
ESR3	Rohde & Schwarz	EMI Test Receiver	102602	Mar. 11, 2024 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 16, 2023 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 04, 2024 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 23, 2024 (1Y)
DT2000-2t	Innco System	Turn Table	N/A	N/A
MA-4640-XPET	Innco System	Antenna Master	MA4640/652/43100318/P	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 20, 2024 (2Y)
HLP-2008	TDK	Hybrid Antenna	131316	Mar. 09, 2024 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jul. 02, 2024 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2024 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 15, 2024 (1Y)
F-40-10.0-RF	RLC Electronis	High Pass Filter	0427	Mar. 04, 2024 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Sep. 26, 2024 (1Y)
NSLK8128	Schwarzbeck	AMN	8128216	Mar. 12, 2024 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 12, 2024 (1Y)