

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-245-RWD-001
Reception No. : 2403001012
Applicant : NuriFlex Inc
Address : 2300-10900 NE 4th Suite Bellevue, Washington 98004-5882, USA
Manufacturer : NuriFlex Inc
Address : 2300-10900 NE 4th Suite Bellevue, Washington 98004-5882, USA
Type of Equipment : AMI Wireless Module
FCC ID. : 2BF2ENAMR-P229
Model Name : NAMR-P229SR
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 25 pages (including this page)
Date of Incoming : March 15, 2024
Date of issue : May 02, 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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OTC-TRF-RF-001(0)

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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-245-RWD-001	May 02, 2024	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : NuriFlex Inc
Address : 2300-10900 NE 4th Suite Bellevue, Washington 98004-5882, USA
Contact Person : Elevas Park / Senior Software Engineer
Telephone No. : +1-201-554-8494
FCC ID : 2BF2ENAMR-P229
Model Name : NAMR-P229SR
Brand Name : NURI, AiMiR
Serial Number : N/A
Date : May 02, 2024

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	AMI Wireless Module
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(average) 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)	Average 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

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

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

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The NuriFlex Inc, Model NAMR-P229SR (referred to as the EUT in this report) is a AMI Wireless Module. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	AMI Wireless Module
Temperature Range	-40 °C ~ +70 °C
OPERATING FREQUENCY	903.5 MHz ~ 926.5 MHz
MODULATION TYPE	2GFSK
RF OUTPUT POWER	13.92 dBm
ANTENNA TYPE	Whip Antenna
ANTENNA GAIN	-2.247 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	24 MHz, 40 MHz

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

-. None

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	NuriFlex Inc	NAMR-P229SR_R0.6	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
NAMR-P229SR	NuriFlex Inc	AMI Wireless Module (EUT)	-
IdeaPad L340	LENOVO	Notebook PC	EUT
U0181-KV	Dongguan Citiland Electronics Co., Ltd	Adapter	-

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 903.5 MHz, 914.5 MHz, and 926.5 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XZ” axis, but the worst data was recorded in this report.

-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
900 MHz	17.9250	126.0000	14.23	8.47

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

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

-. Channel List

Channel	Frequency [MHz]	Channel	Frequency [MHz]
1	903.5	22	924.5
2	904.5	23	925.5
3	905.5	24	926.5
4	906.5	-	-
5	907.5	-	-
6	908.5	-	-
7	909.5	-	-
8	910.5	-	-
9	911.5	-	-
10	912.5	-	-
11	913.5	-	-
12	914.5	-	-
13	915.5	-	-
14	916.5	-	-
15	917.5	-	-
16	918.5	-	-
17	919.5	-	-
18	920.5	-	-
19	921.5	-	-
20	922.5	-	-
21	923.5	-	-

5.4 Configuration of Test System

Line Conducted Test: The EUT was tested in a Charging & Transmitting mode. The EUT was connected to DC Power supply. All supporting equipments 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 Whip Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 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)
Charging & Transmitting Mode	X

6.2 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

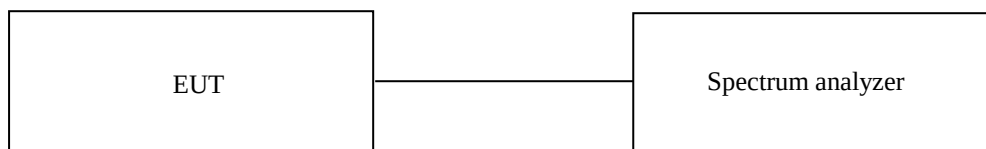
7. MINIMUM 6 dB BANDWIDTH

7.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

7.2 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.



7.3 Test date

March 21, 2024 ~ April 12, 2024

7.4 Test data

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)	LIMIT (MHz)	Margin (MHz)
Low	903.50	0.53	0.50	0.03
Middle	914.50	0.53	0.50	0.03
High	926.50	0.53	0.50	0.03

Remark. Margin = Measured Value - Limit

8. MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

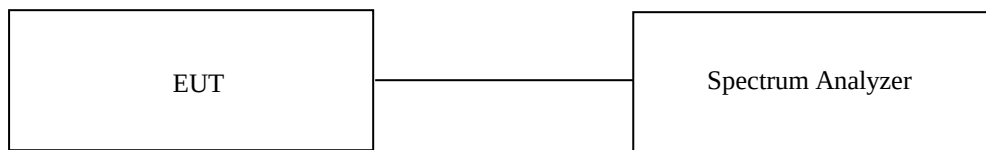
8.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % 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 $\geq$ DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



8.3 Test date

March 21, 2024 ~ April 12, 2024

8.4 Test data

-. Test Result : Pass
-. Duty Cycle : 14.23 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	903.50	13.92	30.00	16.08
MIDDLE	914.50	13.33	30.00	16.67
HIGH	926.50	11.65	30.00	18.35

Remark : Margin = Limit – Measured Value (=Measured Value + Cable Loss + Correction Factor)

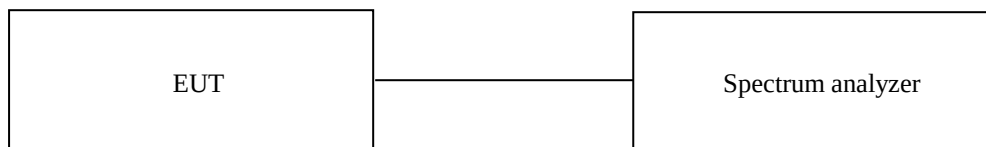
9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

9.2 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, the video bandwidth is set to 3 times the resolution bandwidth and peak detection was used.



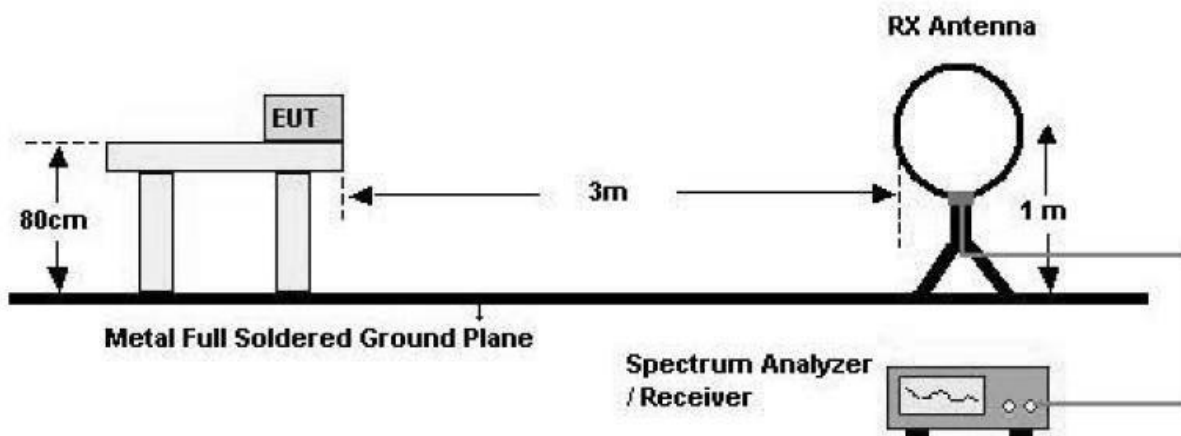
9.3 Test set-up for radiated measurement

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.

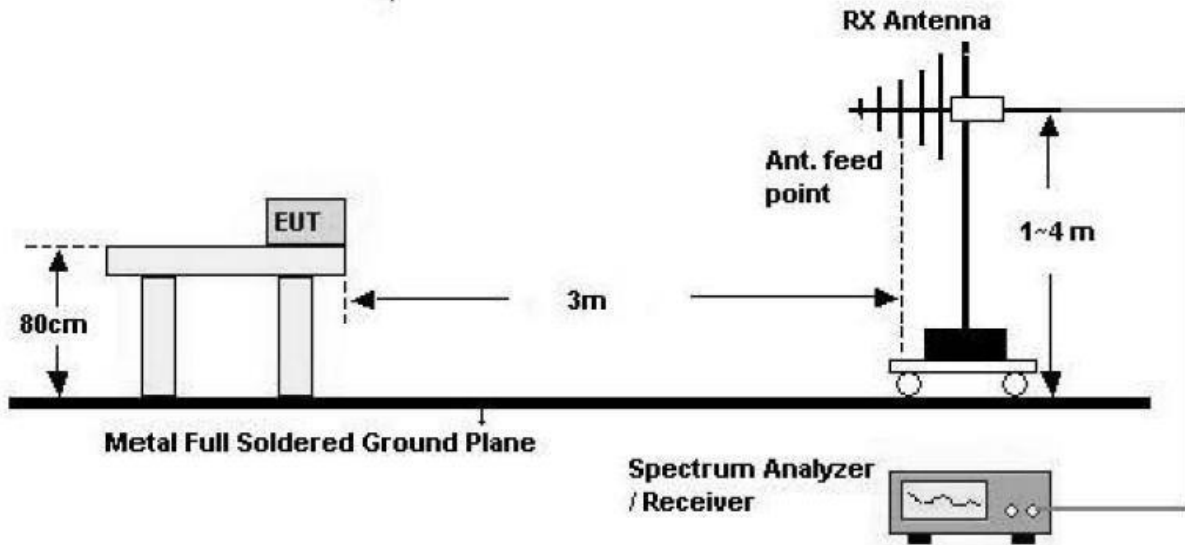
The frequency spectrum from 30 MHz to 10 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

- Test Configuration

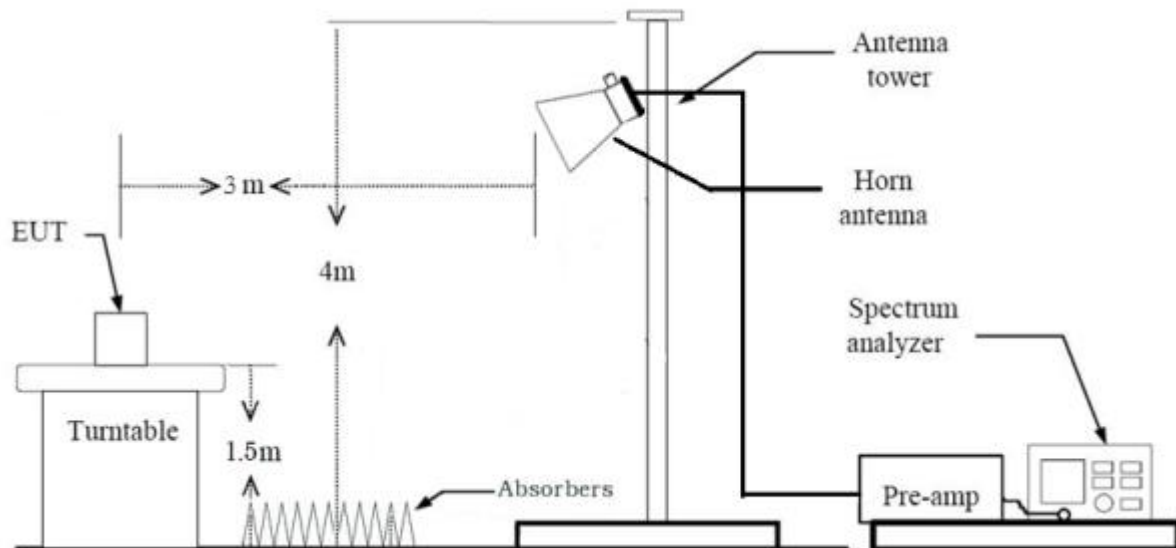
1. Below 30 MHz



2. 30 MHz - 1 GHz



3. Above 1 GHz



9.4 Test Date

March 21, 2024 ~ April 12, 2024

9.5 Test data

For Test data for Annex. Section

9.6 Test data for radiated emission

9.6.1 Spurious & Harmonic Radiated Emission

- 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 : 14.23 %
- Result : PASSED

Channel	Frequency (MHz)	Reading (dBuV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Gain (dB)	Duty (dB)	Total (dBuV/m)	Limits (dBuV/m)	Margin (dB)
Low	1 807.000	65.39	Peak	H	25.25	4.50	42.05	-	53.09	74.00	20.91
		48.24	Average	H	25.24	4.50	42.04	8.47	44.41	54.00	9.59
		66.00	Peak	V	25.25	4.50	42.05	-	53.70	74.00	20.30
		43.92	Average	V	25.24	4.50	42.04	8.47	40.09	54.00	13.91
	2 710.500	57.85	Peak	H	27.82	5.23	42.50	-	48.40	74.00	25.60
		45.30	Average	H	27.82	5.23	42.50	8.47	44.32	54.00	9.68
		54.93	Peak	V	27.82	5.23	42.50	-	45.48	74.00	28.52
		41.86	Average	V	27.82	5.23	42.50	8.47	40.88	54.00	13.12
Middle	1 829.000	61.30	Peak	H	25.38	4.50	42.12	-	49.06	74.00	24.94
		44.87	Average	H	25.38	4.50	42.12	8.47	41.10	54.00	12.90
		61.43	Peak	V	25.37	4.50	42.11	-	49.19	74.00	24.81
		42.14	Average	V	25.36	4.50	42.11	8.47	38.36	54.00	15.64
	2 743.500	53.49	Peak	H	27.89	5.23	42.50	-	44.11	74.00	29.89
		40.83	Average	H	27.89	5.23	42.50	8.47	39.92	54.00	14.08
		51.39	Peak	V	27.89	5.23	42.50	-	42.01	74.00	31.99
		38.41	Average	V	27.89	5.23	42.50	8.47	37.50	54.00	16.50

High	1 853.000	62.36	Peak	H	25.50	4.57	42.20	-	50.23	74.00	23.77
		45.19	Average	H	25.50	4.57	42.20	8.47	41.53	54.00	12.47
		66.28	Peak	V	25.50	4.57	42.20	-	54.15	74.00	19.85
		43.56	Average	V	25.50	4.57	42.20	8.47	39.90	54.00	14.10
	2 779.500	51.60	Peak	H	28.02	5.26	42.50	-	42.38	74.00	31.62
		38.25	Average	H	28.02	5.26	42.50	8.47	37.50	54.00	16.50
		51.81	Peak	V	28.02	5.26	42.50	-	42.59	74.00	31.41
		38.25	Average	V	28.02	5.26	42.50	8.47	37.50	54.00	16.50

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

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

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

10. AVERAGE POWER SPECTRAL DENSITY

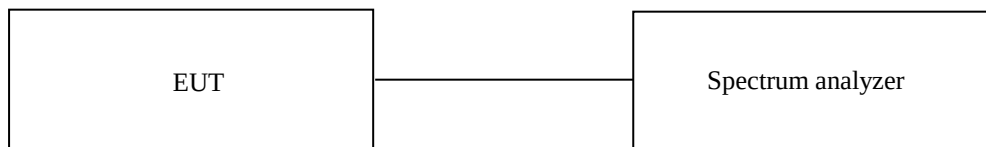
10.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

10.2 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.



10.3 Test date

March 21, 2024 ~ April 12, 2024

10.4 Test data

-. Test Result : Pass
-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	903.50	4.87	8.00	3.13
Middle	914.50	4.49	8.00	3.51
High	926.50	3.13	8.00	4.87

Remark. Margin = Limit – Measured value(=Measured Value + Cable Loss + Correction Factor)

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

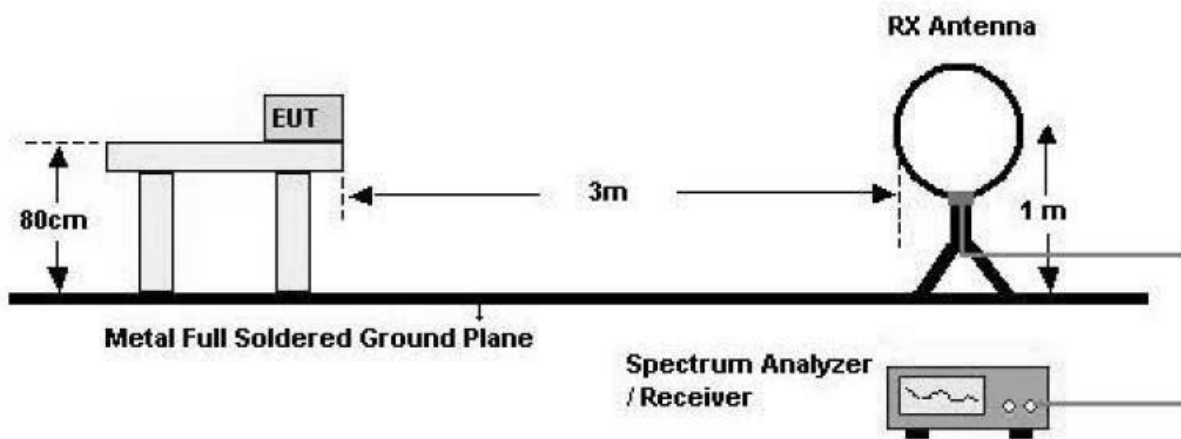
11.2 Test set-up

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.

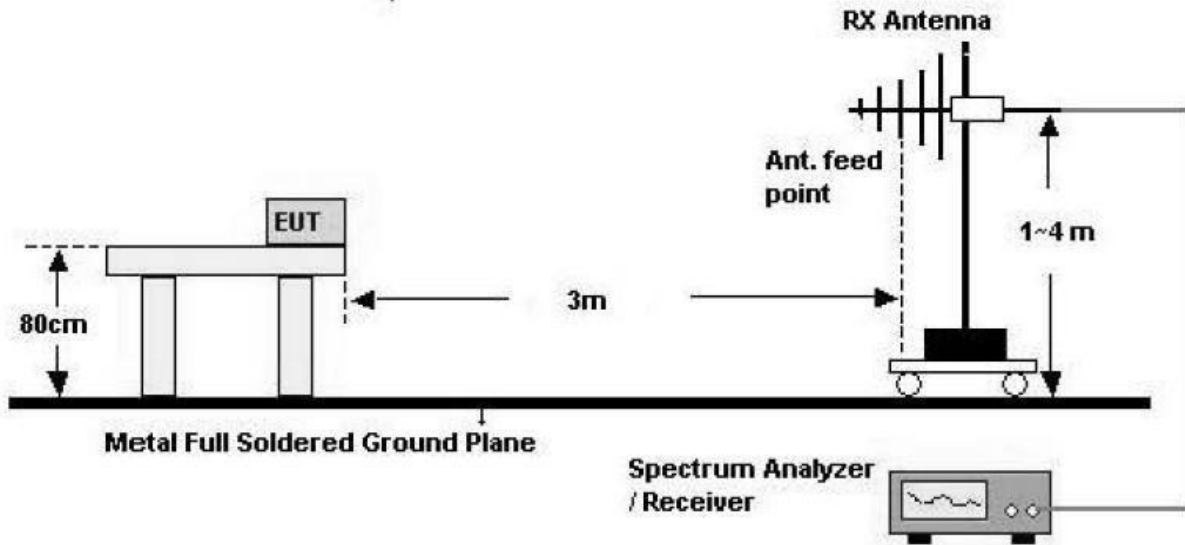
The frequency spectrum from 30 MHz to 10 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

- Test Configuration

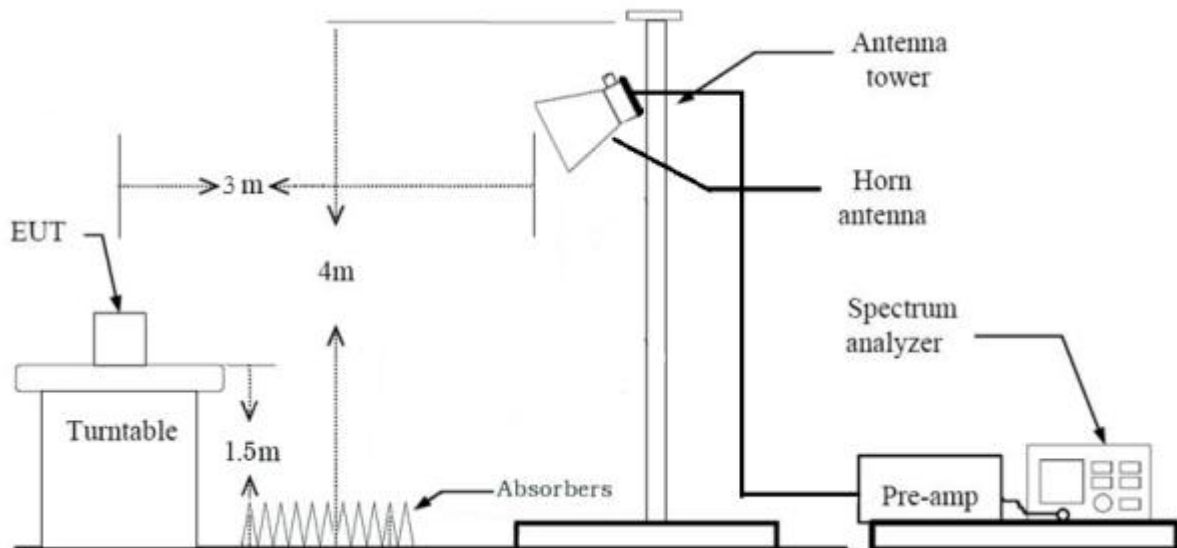
1. Below 30 MHz



2. 30 MHz - 1 GHz



3. Above 1 GHz



11.3 Test Date

March 21, 2024 ~ April 12, 2024

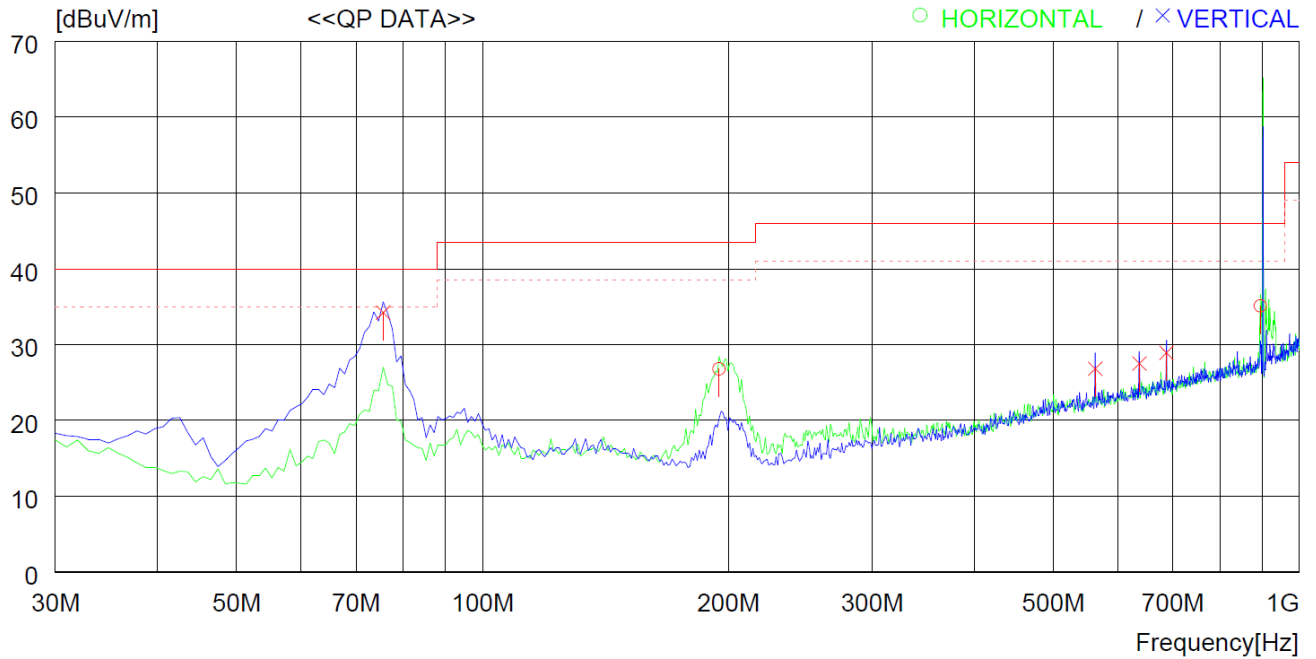
11.4 Test data for 30 MHz ~ 1 000 MHz

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

Result : PASSED

EUT : AMI Wireless Module

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	194.900	41.2	15.9	1.8	32.1	26.8	43.5	16.7	200	0
2	896.199	35.4	27.8	3.9	32.0	35.1	46.0	10.9	100	359
----- Vertical -----										
3	75.590	51.8	13.2	1.2	32.0	34.2	40.0	5.8	200	359
4	562.529	32.2	23.8	3.1	32.3	26.8	46.0	19.2	100	0
5	637.217	31.8	24.7	3.3	32.3	27.5	46.0	18.5	400	42
6	687.655	32.5	25.4	3.4	32.4	28.9	46.0	17.1	100	0

11.5 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.									

11.6 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 ~ 10 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.									

12. CONDUCTED EMISSION TEST

12.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

12.2 Test set-up

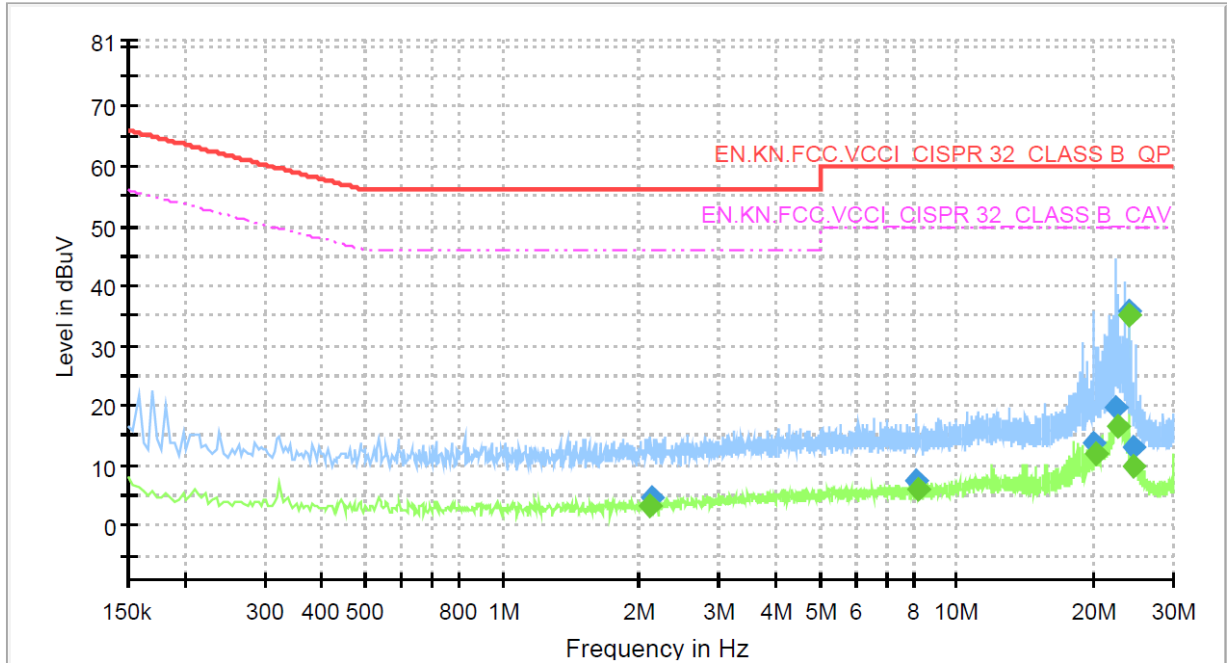
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

12.3 Test Date

March 21, 2024 ~ April 12, 2024

12.4 Test data

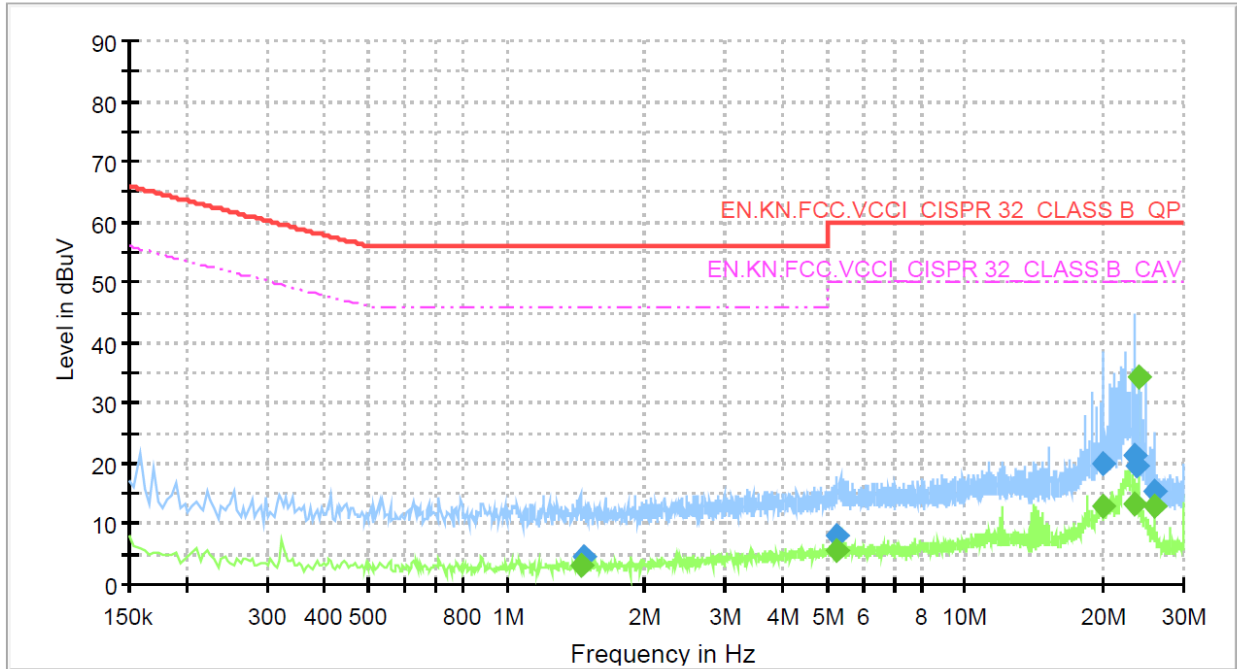
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
2.109	---	3.35	46.00	42.65	9.0	L1	10.25
2.137	4.72	---	56.00	51.28	9.0	L1	10.25
8.176	7.32	---	60.00	52.68	9.0	L1	10.54
8.188	---	6.04	50.00	43.96	9.0	L1	10.54
19.994	13.71	---	60.00	46.29	9.0	L1	11.17
20.142	---	11.99	50.00	38.01	9.0	L1	11.17
22.367	19.78	---	60.00	40.22	9.0	L1	11.19
22.530	---	16.56	50.00	33.44	9.0	L1	11.20
23.998	---	35.09	50.00	14.91	9.0	L1	11.21
24.002	35.78	---	60.00	24.22	9.0	L1	11.21
24.531	12.89	---	60.00	47.11	9.0	L1	11.22
24.578	---	10.07	50.00	39.93	9.0	L1	11.22

-. Tested Line : NEUTRAL LINE



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
1.456	---	3.11	46.00	42.89	9.0	N	10.24
1.465	4.57	---	56.00	51.43	9.0	N	10.24
5.226	8.16	---	60.00	51.84	9.0	N	10.38
5.258	---	5.53	50.00	44.47	9.0	N	10.38
19.990	---	12.80	50.00	37.20	9.0	N	11.13
19.994	20.05	---	60.00	39.95	9.0	N	11.13
23.367	---	13.27	50.00	36.73	9.0	N	11.17
23.515	21.32	---	60.00	38.68	9.0	N	11.17
23.818	19.55	---	60.00	40.45	9.0	N	11.17
24.002	---	34.31	50.00	15.69	9.0	N	11.17
25.907	---	12.89	50.00	37.11	9.0	N	11.19
25.907	15.33	---	60.00	44.67	9.0	N	11.19

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.

13. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	102196	Jan. 15, 2024 (1Y)
FSV30	Rohde & Schwarz	Signal Analyzer	101199	Jan. 15, 2024 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Jun. 16, 2023 (1Y)
GP-4303D	LG Precision Co.,Ltd	DC POWER SUPPLY	5071069	Jan. 04, 2024 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 11, 2024 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 11, 2023 (1Y)
HPF 1.5GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 15, 2024 (1Y)
QFA1802-26-6-S	Qualwave	6 dB Attenuator	225342	Jan. 17, 2024 (1Y)
DT3000	Innco System	Turn Table	DT3000/093	N/A
MA4000-EP	Innco System	Antenna Master	MA4000/332/27030611/L	N/A
CO3000	Innco System	Controller	CO3000/904/37211215/L	N/A
AH-118	Com-Power	Horn Antenna	10050061	Oct. 19, 2023 (1Y)
VULB9163	Schwarzbeck	TRILOG Broadband Antenna	777	Jan. 26, 2024 (2Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 20, 2024 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jul. 04, 2023 (1Y)
ESCI	Rohde & Schwarz	Test Receiver	101420	Mar. 05, 2024 (1Y)
NSLK8126	Schwarzbeck	LISN	8126404	Mar. 12, 2024 (1Y)
3825/2	EMCO	AMN	9109-1867	Mar. 05, 2024 (1Y)