

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-253-RWD-037
Reception No. : 2501000161
Applicant : TELICA Inc.
Address : Tower A-411, 40 Imi-ro, Uiwang-Si, Gyeonggi-do, 16006, Korea
Manufacturer : TELICA Inc.
Address : Tower A-411, 40 Imi-ro, Uiwang-Si, Gyeonggi-do, 16006, Korea
Type of Equipment : ESL 12.5inch Tag
FCC ID. : 2BN7U-TE-C5R-Q2N
Model Name : TE-C5R-Q2N
Multiple Model Name : TE-C5M-Q2N, TE-C5F-Q2N
Serial number : N/A
Total page of Report : 24 pages (including this page)
Date of Incoming : March 13, 2025
Date of issue : March 20, 2025

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.



Tested by
 Si-eon Lee / Senior Project Engineer
 ONETECH Corp.



Reviewed by
 Tae-Ho, Kim / Chief Engineer
 ONETECH Corp.



Approved by
 Jae-Ho, Lee / Director
 ONETECH Corp.

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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-253-RWD-037	March 20, 2025	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : TELICA Inc.
Address : Tower A-411, 40 Imi-ro, Uiwang-Si, Gyeonggi-do, 16006, Korea
Contact Person : Aaron, Kim / Principal Research Engineer
Telephone No. : +82-10-9580-1067
FCC ID : 2BN7U-TE-C5R-Q2N
Model Name : TE-C5R-Q2N
Brand Name : Crebee
Serial Number : N/A
Date : March 20, 2025

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	ESL 12.5inch Tag
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
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	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note: This test id not performed because the EUT is operated by only using DC Battery.

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: 2020. 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 TELICA Inc., Model TE-C5R-Q2N (referred to as the EUT in this report) is a ESL 12.5inch Tag. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	ESL 12.5inch Tag
OPERATING FREQUENCY	2 405 MHz ~ 2 480 MHz
MODULATION TYPE	DSSS
RF OUTPUT POWER	-3.66 dBm
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	4.98 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz
RATED SUPPLY VOLTAGE	DC 3.0 V

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
TE-C5R-Q2N	Basic Model	☒
TE-C5M-Q2N, TE-C5F-Q2N	The color of the EPD that makes up the product is different	☒

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

2. The Applicant/manufacture 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	TELICA Inc.	ESL 12.5inch Tag (EUT)	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
TE-C5R-Q2N	TELICA Inc.	ESL 12.5inch Tag (EUT)	-
HP250 G9 6N224PC	HP	Notebook PC	EUT

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 2 405 MHz, 2 440 MHz, 2 480 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 “XY” axis, but the worst data was recorded in this report.

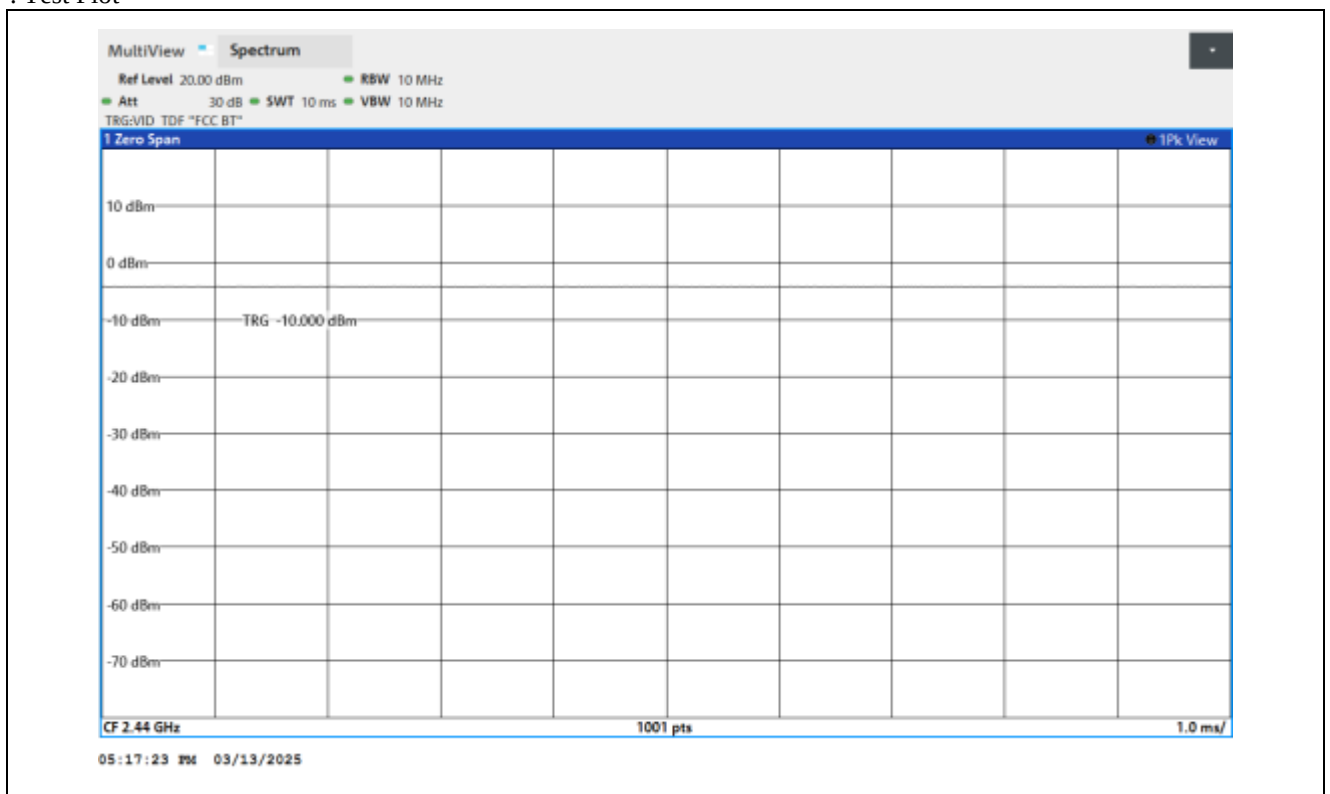
-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Zigbee	-	-	100.00	0.00

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

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

-. Test Plot



-. Channel List

Channel	Frequency[MHz]
11	2 405.00
12	2 410.00
13	2 415.00
14	2 420.00
15	2 425.00
16	2 430.00
17	2 435.00
18	2 440.00
19	2 445.00
20	2 450.00
21	2 455.00
22	2 460.00
23	2 465.00
24	2 470.00
25	2 475.00
26	2 480.00

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: 2020 to determine the worse operating conditions.
- 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 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 PCB 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)
It is not need to test this requirement, because the power of the EUT is supplied by DC Battery.	

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

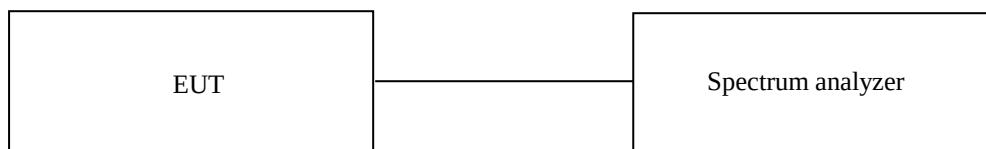
7.1 Operating environment

Temperature : 23 °C

Relative humidity : 46 % 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 13, 2025 ~ March 18, 2025

7.4 Test data

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (kHz)	LIMIT (kHz)	Margin (kHz)
1	2 405.00	1 590.02	500.00	1 090.02
8	2 440.00	1 609.98	500.00	1 109.98
16	2 480.00	1 600.00	500.00	1 100.00

Remark. Margin = Measured Value – Limit

8. MAXIMUM CONDUCTED(PEAK) OUTPUT POWER

8.1 Operating environment

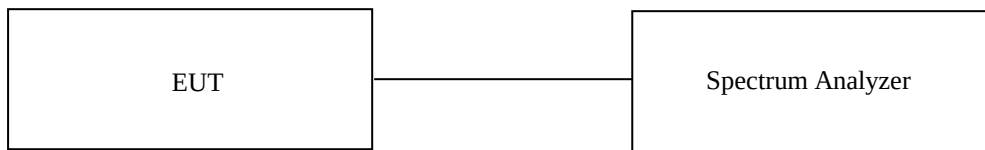
Temperature : 23 °C

Relative humidity : 46 % 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 13, 2025 ~ March 18, 2025

8.4 Test data

-. Test Result : Pass

-. Duty Cycle : 100 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
1	2 405.00	-3.66	30.00	33.66
8	2 440.00	-4.07	30.00	34.07
16	2 480.00	-4.45	30.00	34.45

Remark. Margin = Limit – Measured Value

9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

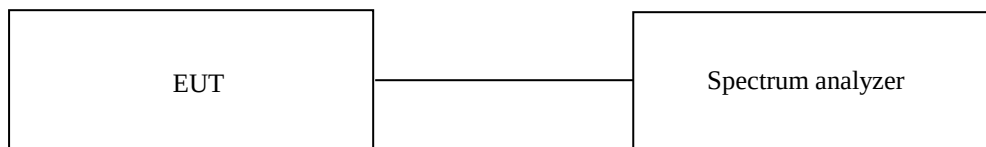
9.1 Operating environment

Temperature : 23 °C

Relative humidity : 46 % 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 and video bandwidth is set to 300 kHz, 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 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.

9.4 Test date

March 13, 2025 ~ March 18, 2025

9.5 Test data for conducted emission

Please refer to the Annex

9.6 Test data for radiated emission

9.6.1 Radiated Emission which fall in the Restricted Band

- 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 : 100 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 310.689	58.60	Peak	H	27.70	2.62	43.05	-	-	45.87	74.00	28.13
2 310.046	46.01	Average	H	27.70	2.62	43.05	-	-	33.28	54.00	20.72
2 312.068	55.85	Peak	V	27.70	2.62	43.05	-	-	43.12	74.00	30.88
2 341.203	44.99	Average	V	27.70	2.62	43.05	-	-	32.26	54.00	21.74
Test Data for High Channel											
2 483.506	71.74	Peak	H	27.40	2.68	43.12	-	-	58.70	74.00	15.30
2 483.526	65.37	Average	H	27.40	2.68	43.12	-	-	52.33	54.00	1.67
2 483.506	70.33	Peak	V	27.40	2.68	43.12	-	-	57.29	74.00	16.71
2 483.506	64.53	Average	V	27.40	2.68	43.12	-	-	51.49	54.00	2.51

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

9.6.2 Spurious & Harmonic Radiated Emission

- . 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 : 100 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 810.819	51.47	Peak	H	31.20	3.68	44.37	-	41.98	74.00	32.02
4 809.151	40.00	Average	H	31.20	3.68	44.37	-	30.51	54.00	23.49
4 810.949	51.25	Peak	V	31.20	3.68	44.37	-	41.76	74.00	32.24
4 811.049	39.83	Average	V	31.20	3.68	44.37	-	30.34	54.00	23.66
Test Data for Middle Channel										
4 881.329	51.73	Peak	H	31.30	3.70	44.41	-	42.32	74.00	31.68
4 881.089	40.33	Average	H	31.30	3.70	44.41	-	30.92	54.00	23.08
4 878.931	51.28	Peak	V	31.30	3.70	44.41	-	41.87	74.00	32.13
4 880.549	40.15	Average	V	31.30	3.70	44.41	-	30.74	54.00	23.26
Test Data for High Channel										
4 961.109	51.84	Peak	H	31.50	3.78	44.46	-	42.66	74.00	31.34
4 960.729	40.91	Average	H	31.50	3.78	44.46	-	31.73	54.00	22.27
4 958.891	51.57	Peak	V	31.50	3.78	44.46	-	42.39	74.00	31.61
4 958.871	40.57	Average	V	31.50	3.78	44.46	-	31.39	54.00	22.61

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. POWER SPECTRAL DENSITY

10.1 Operating environment

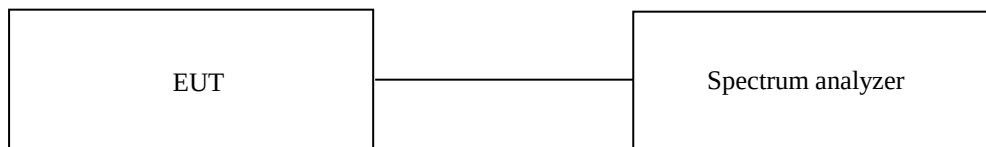
Temperature : 23 °C

Relative humidity : 46 % 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 13, 2025 ~ March 18, 2025

10.4 Test data

-. Test Result : Pass

-. Duty Cycle : 100 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm / 3 kHz)	MARGIN (dB)
1	2 405.00	-19.12	8.00	27.12
8	2 440.00	-19.45	8.00	27.45
16	2 480.00	-20.39	8.00	28.39

Remark. Margin = Limit – Measured Value

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 23 °C

Relative humidity : 46 % R.H.

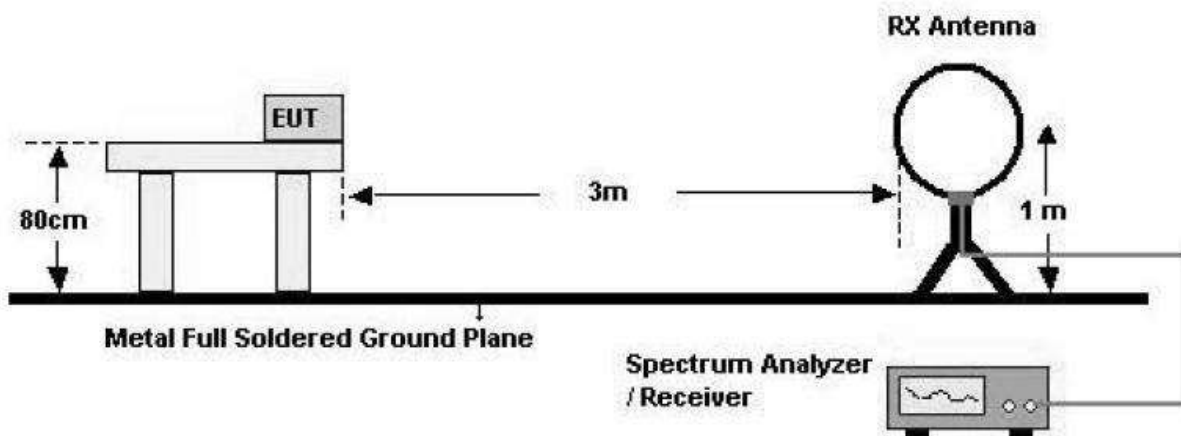
11.2 Test set-up

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.

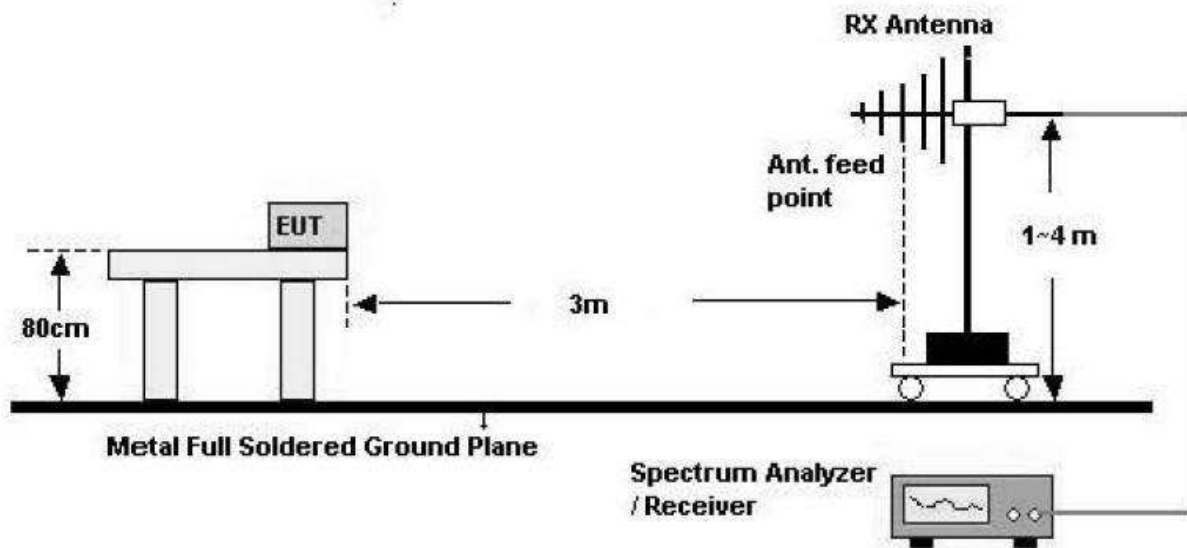
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal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

- Test Configuration

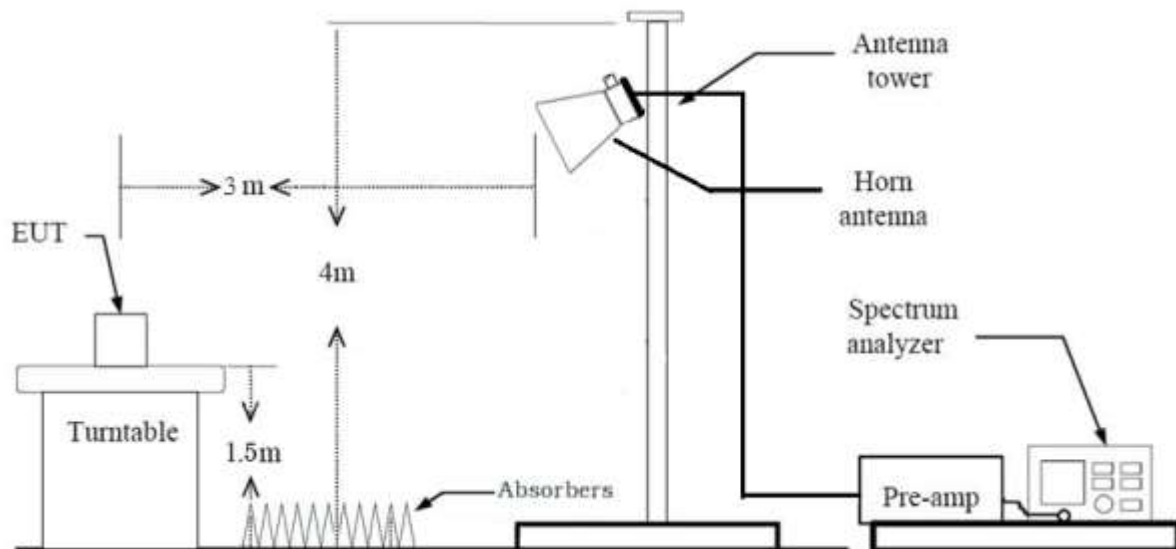
1. Below 30 MHz



2. 30 MHz - 1 GHz



3. Above 1 GHz



11.3 Test Date

March 13, 2025 ~ March 18, 2025

11.4 Test data for 30 MHz ~ 1 000 MHz

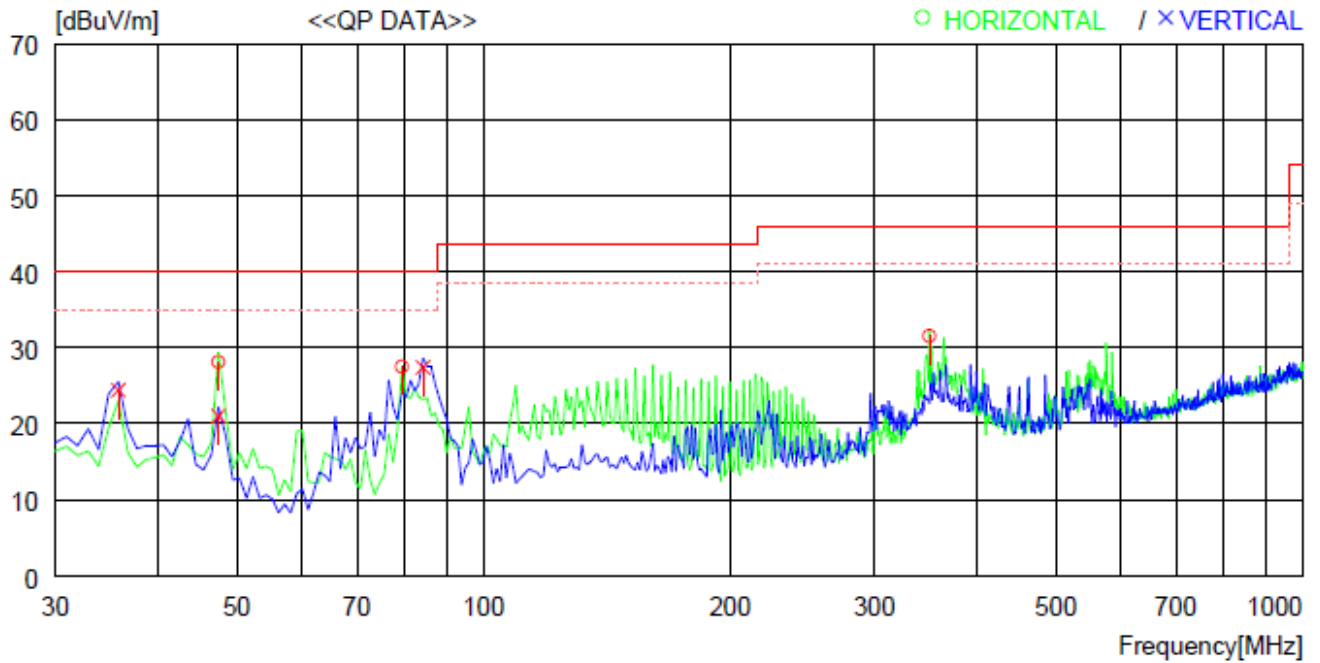
11.4.1 Model Name: TE-C5R-Q2N

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

Result : PASSED

EUT : ESL 12.5inch Tag

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	47.460	46.2	14.1	0.9	33.1	28.1	40.0	11.9	300	204
2	79.470	46.1	13.2	1.2	33.0	27.5	40.0	12.5	300	359
3	350.100	42.0	20.1	2.4	33.0	31.5	46.0	14.5	200	74
----- Vertical -----										
4	35.820	37.7	19.0	0.8	33.1	24.4	40.0	15.6	100	359
5	47.460	39.1	14.1	0.9	33.1	21.0	40.0	19.0	311	359
6	84.320	45.9	13.3	1.2	33.0	27.4	40.0	12.6	200	0

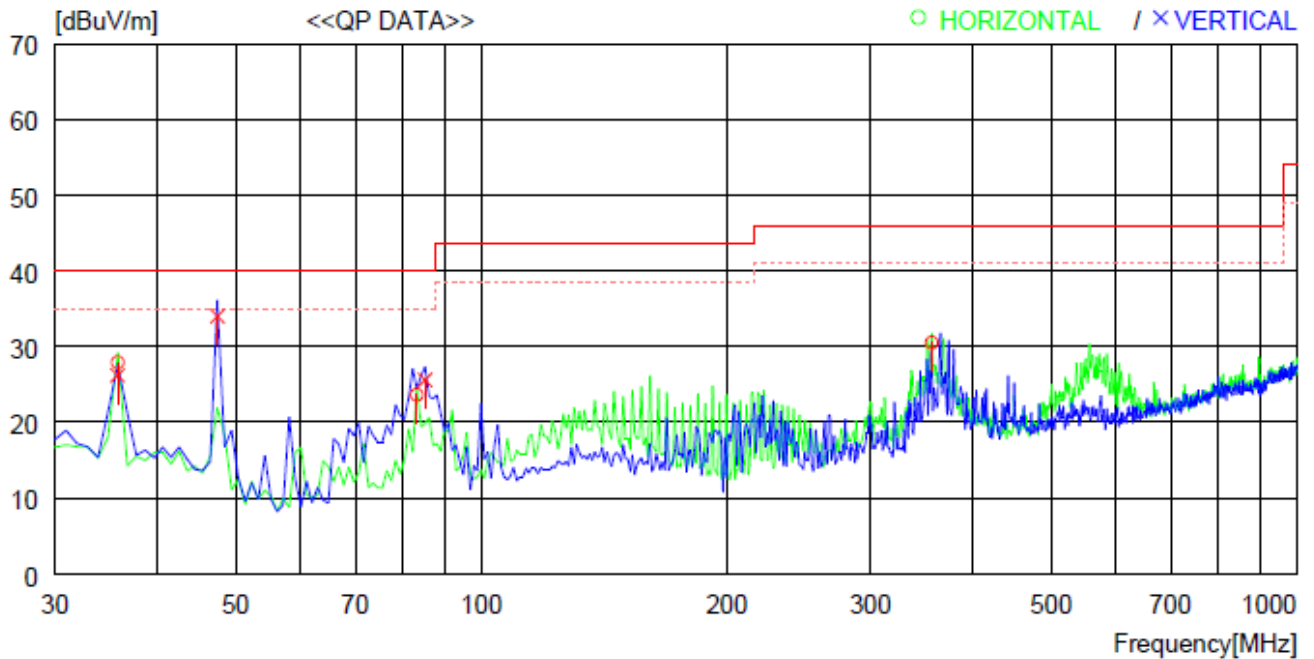
11.4.2 Model Name: TE-C5M-Q2N

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

Result : PASSED

EUT : ESL 12.5inch Tag

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	35.820	41.2	19.0	0.8	33.1	27.9	40.0	12.1	187	0
2	83.350	42.2	13.2	1.2	33.0	23.6	40.0	16.4	400	0
3	356.890	40.9	20.2	2.4	33.0	30.5	46.0	15.5	300	359
----- Vertical -----										
4	35.820	39.5	19.0	0.8	33.1	26.2	40.0	13.8	300	74
5	47.460	52.1	14.1	0.9	33.1	34.0	40.0	6.0	300	0
6	85.290	44.1	13.3	1.2	33.0	25.6	40.0	14.4	200	2

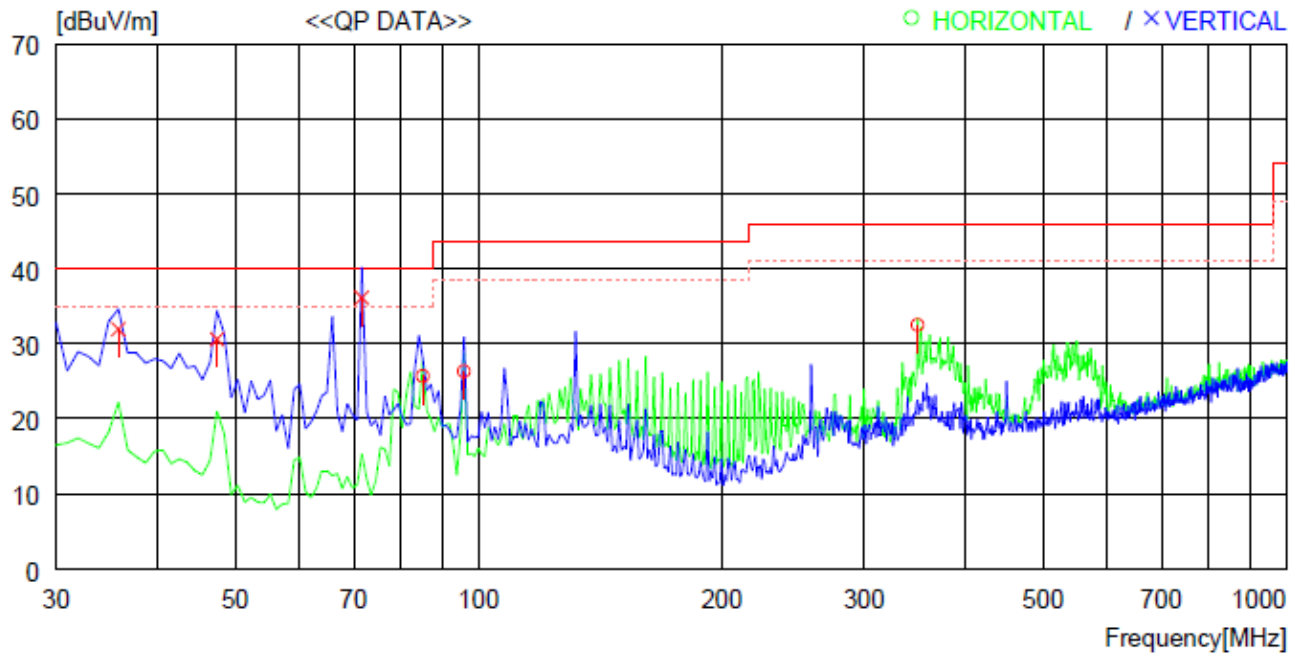
11.4.3 Model Name: TE-C5F-Q2N

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

Result : PASSED

EUT : ESL 12.5inch Tag

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	85.290	44.2	13.3	1.2	33.0	25.7	40.0	14.3	300	359
2	95.960	43.2	14.9	1.2	33.0	26.3	43.5	17.2	100	222
3	349.130	43.0	20.1	2.4	33.0	32.5	46.0	13.5	200	87
----- Vertical -----										
4	35.820	45.2	19.0	0.8	33.1	31.9	40.0	8.1	300	268
5	47.460	48.7	14.1	0.9	33.1	30.6	40.0	9.4	269	359
6	71.710	54.8	13.2	1.1	33.0	36.1	40.0	3.9	269	359

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 ~ 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.									

12. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSVA3030	Rohde & Schwarz	Signal&Spectrum Analyzer	101136	Jan. 10, 2025 (1Y)
FSVA40	Rohde & Schwarz	Signal Analyzer	101593	Jan. 13, 2025 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Jun. 13, 2024 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 11, 2024 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 04, 2024 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2025 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 13, 2025 (1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 20, 2024 (2Y)
HLP-2008	TDK	Hybrid Antenna	131313	Apr. 05, 2023 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jul. 02, 2024 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2025 (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